GRE MAR 12

PROJECT ID: 9210-11-71
WITH: N/A

COUNTY: OUTAGAMIE/BROWN

27

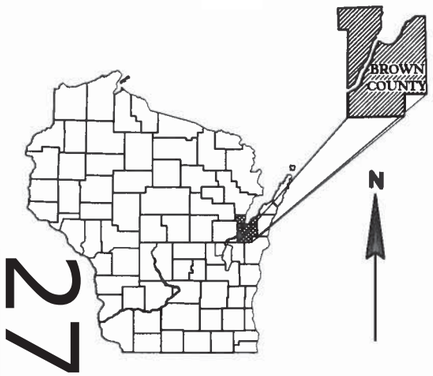
ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = ~~456~~ 504

Page Inserted:
28A,
88B,
89A
373A, B, C

Pages Replaced:
6-12,
52-54,
60-68,
77-80,
88,
164-166,
168,
172-180,
189-195,
215,
328,
366,
371,
418



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

ONEIDA - GREEN BAY

CTH U - STH 172

STH 54

OUTAGAMIE COUNTY/BROWN COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9210-11-71	WISC 2012122	1

AS-BUILT PLAN
SUPERVISOR: Dan Segerstrom
PROJECT LEADER: Matt Ternes
PROJECT MANAGER: Krissy VanHout
PRIME CONTRACTOR: Hoffman Construction Complany
WORK STARTED:
WORK COMPLETED:

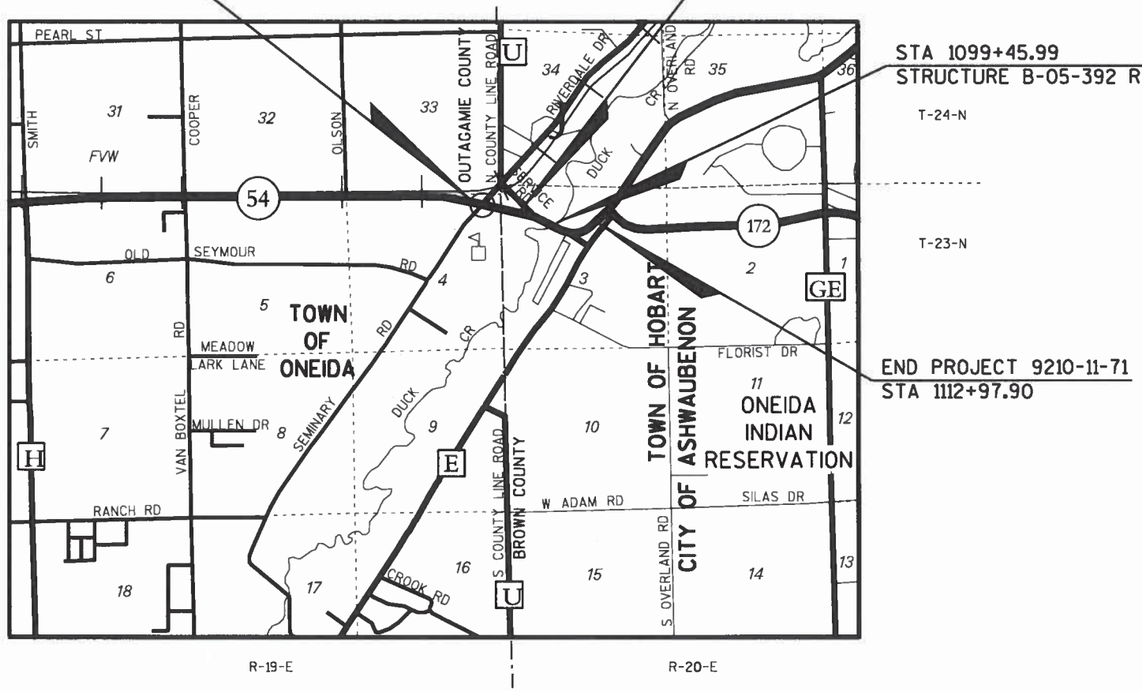
STATE PROJECT NUMBER
9210-11-71

BEGIN PROJECT 9210-11-71
STA 886+00.00
Y= 562,559.96
X= 52,195.85

STATION EQUATION
STA 910+00.00 BACK=
STA 1086+61.23 AHEAD

STA 1099+45.99
STRUCTURE B-05-392 REQD

END PROJECT 9210-11-71
STA 1112+97.90



LAYOUT
SCALE 0 ½ MI.

TOTAL NET LENGTH OF CENTERLINE = 0.954 MI.

"Coordinates on this plan are referenced to the Wisconsin County Coordinate System (WCCS), Brown County." NAD 83 (1991)

DESIGN DESIGNATION

A.A.D.T. (2012)	=	13,000
A.A.D.T. (2032)	=	19,000
D.H.V.	=	2,295
D.D.	=	58/42
T.	=	7.5%
DESIGN SPEED	=	35 MPH
ESALS	=	2,934,600

CONVENTIONAL SYMBOLS

PLAN

CORPORATE LIMITS
PROPERTY LINE
LOT LINE
LIMITED HIGHWAY EASEMENT
EXISTING RIGHT OF WAY
PROPOSED OR NEW R/W LINE
SLOPE INTERCEPT
REFERENCE LINE
EXISTING CULVERT
PROPOSED CULVERT (Box or Pipe)
COMBUSTIBLE FLUIDS (CAUTION)
MARSH AREA
WOODED OR SHRUB AREA

Subcontractor List
Antigo Construction
Century Fence
Ed Gersek, Inc.
Edward Kraemer & Sons
Elmstar Electric
Geo Test
Hard Rock Sawing & Drilling
Interstate Tree Landscaping
Martell Construction
Mattison Contractors
Mega Rentals
Michels Materials
Northeast Asphalt
Patriot Fencing
TNT Surveyors
2nd Tier Subs
Choice Construction (Martell)
Sommers Construction (Martell)
Wisconsin Rebar (Ed Kraemer)
Gillen Foundations (Ed Kraemer)

ORIGINAL PLANS PREPARED BY

Mead & Hunt
Mead & Hunt, Inc.
1345B North Road
Green Bay, WI 54313
920.496.0500
fax: 920.496.0576
www.meadhunt.com

WISCONSIN
JOHN A. RATHKE
E-29332
GREEN BAY, WI
PROFESSIONAL ENGINEER

BY JOHN A. RATHKE 10/24/11 DATE

DLZ
1425 KEYSTONE AVE
LANSING, MI 48911
(517) 393-8800

PREPARED UNDER THE SUPERVISION OF

WISCONSIN
SEAN P. RILEY
E- 39794
LANSING, MI
PROFESSIONAL ENGINEER

BY SEAN P. RILEY 10/24/11 DATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WisDOT / MEAD & HUNT, INC
Designer	MEAD & HUNT, INC.
Project Manager	DAN SEGERSTROM
Regional Examiner	
Regional Supervisor	
C.O. Examiner	

APPROVED FOR THE DEPARTMENT
DATE: 10/24/11 (Signature)

E

2

STANDARD ABBREVIATIONS

AC	ACRE
AGG	AGGREGATE
AH	AHEAD
ET AL	AND OTHERS
∠	ANGLE
ASPH	ASPHALTIC
APM	ASPHALTIC PLANT MIX
AVG	AVERAGE
AADT	ANNUAL AVERAGE DAILY TRAFFIC
BK	BACK
BF	BACK FACE
BL or B/L	BASE LINE
BM	BENCH MARK
CB	CATCH BASIN
CL or C/L	CENTER LINE
CC	CENTER TO CENTER
△	CENTRAL ANGLE OR DELTA
CH	CHORD
CH BRG	CHORD BEARING
CONC	CONCRETE
CB*	CONTROL BASE
CACP	CORRUGATED ALUMINUM CULVERT PIPE
CSCP	CORRUGATED STEEL CULVERT PIPE
CO	COUNTY
CTH	COUNTY TRUNK HIGHWAY
CR	CREEK
CR	CRUSHED
CABC	CRUSHED AGGREGATE BASE COURSE
CY or CUYD	CUBIC YARD
CULV	CULVERT
CP	CULVERT PIPE
C & G	CURB AND GUTTER
(D) Deed	(D) DEED
D	DEGREE OF CURVE
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
DOC	DOCUMENT
DWY	DRIVEWAY
E	EAST
X	EAST GRID COORDINATE
EB	EASTBOUND
ELEC	ELECTRIC (AL)
EL or ELEV	ELEVATION
EMB	EMBANKMENT
EOR	END OF RADIUS
EW	ENDWALL
ENT	ENTRANCE
ESALS	EQUIVALENT SINGLE AXLE LOADS
EXC	EXCAVATION
EBS	EXCAVATION BELOW SUBGRADE
EX or EXIST	EXISTING
EXP	EXPANSION
FF	FACE TO FACE OR FRONT FACE
FP	FENCE POST
FERT	FERTILIZE
FE	FIELD ENTRANCE
F	FILL
FAB	FLASHING ARROW BOARD
FL or F/L	FLOW LINE
FT	FOOT
FTG	FOOTING
FDN	FOUNDATION
FTMS	FREEWAY TRAFFIC MANAGEMENT SYSTEM
GN	GRID NORTH
HR	HANDICAP RAMP
HT	HEIGHT
HES	HIGH EARLY STRENGTH
CWT	HUNDREDWEIGHT
HYD	HYDRANT
IN DIA	INCH DIAMETER
INL	INLET
ID	INSIDE DIAMETER
INTERS	INTERSECTION
I	INTERSECTION ANGLE
INV	INVERT
IP	IRON PIPE OR PIN
JT	JOINT
JCT	JUNCTION
JB*	JUNCTION BOX
LT	LEFT
LHF	LEFT-HAND FORWARD
L	LENGTH OF CURVE
LIN FT or LF	LINEAR FOOT
LC	LONG CHORD OF CURVE
LS	LUMP SUM
MAINT	MAINTENANCE
MH	MANHOLE
MP	MARKER POST
M	MARSH
ML or M/L	MATCH LINE
MATL	MATERIAL
MB	MESSAGE BOARD
MOR	MIDDLE OF RADIUS
NOM	NOMINAL
NRCPSS	NON REINFORCED CONCRETE PIPE STORM SEWER
NC	NORMAL CROWN
N	N
Y	NORTH GRID COORDINATE
NB	NORTHBOUND
NO	NUMBER
OBLIT	OBLITERATE
OD	OUTSIDE DIAMETER
PAVT	PAVEMENT
PERM	PERMANENT
PLE	PERMANENT LIMITED EASEMENT
PU	PIPE UNDERDRAIN
PUDT	PIPE UNDERDRAIN DRAIN
Tile	TILE
PUU	PIPE UNDERDRAIN UNPERFORATED
PT	POINT
PCC	POINT OF COMPOUND CURVE
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
POC	POC
POT	POINT ON TANGENT
PVC	POLYVINYL CHLORIDE
PCC	PORTLAND CEMENT CONCRETE
LB	LB POUND
PSI	POUNDS PER SQUARE INCH
PE	PRIVATE ENTRANCE
PROJ	PROJECT
PL	PROPERTY LINE
PB*	PULL BOX
QCD	QUITCLAIM DEED
R	RADIUS
RP	RADIUS POINT
RECY	RECYCLED
RL or R/L	REFERENCE LINE
RCCP	REINFORCED CONCRETE CULVERT PIPE
RCHECP	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CULVERT PIPE
RCPA	REINFORCED CONCRETE PIPE ARCH
RCPSS	REINFORCED CONCRETE PIPE STORM SEWER
REBAR	REINFORCEMENT BAR
REINF	REINFORCING OR REINFORCEMENT
REL	RELOCATE (D)
REM	REMAINING
REQD	REQUIRED
RT	RIGHT
RHF	RIGHT-HAND FORWARD
R/W	RIGHT-OF-WAY
RD	ROAD
RDWY	ROADWAY
SALV	SALVAGED
SSS	SANITARY AND STORM SEWER
SAN S	SANITARY SEWER
SEC	SECTION
SHLDR	SHOULDER
SHR	SHRINKAGE
SW	SIDEWALK
SB*	SIGNAL BASE
S	SOUTH
SB	SOUTHBOUND
SP	SPECIAL
SPECS	SPECIFICATIONS
SQ	SQUARE
SF or SQ FT	SQUARE FEET
SY or SQ YD	SQUARE YARD
STD	STANDARD
SDD	STANDARD DETAIL DRAWINGS
STH	STATE TRUNK HIGHWAYS
STA	STATION
SSD	STOPPING SIGHT DISTANCE
SS	STORM SEWER
SE	SUPERELEVATION
SURF	SURFACE
SL or S/L	SURVEY LINE
T	TANGENT
TEL	TELEPHONE
TEMP	TEMPORARY
TI	TEMPORARY INTEREST
TLE	TEMPORARY LIMITED EASEMENT
TPM	TEMPORARY PAVEMENT MARKING
TPMRT	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE
†	TON
TC	TOP OF CURB
T or TN	TOWN
TRANS	TRANSITION
T	TRUCKS (PERCENT OF)
TYP	TYPICAL
UG	UNDERGROUND
USH	UNITED STATES HIGHWAY
VAR	VARIABLE
V	VELOCITY OR DESIGN SPEED
VERT	VERTICAL
VC	VERTICAL CURVE
VPCC	VERTICAL POINT OF COMPOUND
Curve	CURVE
VPC	VERTICAL POINT OF CURVE
VPI	VERTICAL POINT OF INTERSECTION
VPRC	VERTICAL POINT OF REVERSE CURVE
VPT	VERTICAL POINT OF TANGENCY
VOL	VOLUME
W	WATER
WM	WATER MAIN
WV	WATER VALVE
W	WELL
W	WEST
WB	WESTBOUND
YD	YARD

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERSECTIONS
EROSION CONTROL & DRAINAGE
STORM SEWER
PLANTING
SIGNING
LIGHTING
PAVEMENT MARKING
TRAFFIC CONTROL AND CONSTRUCTION STAGING
ALIGNMENT

CONSULTANT CONTACTS

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TELEPHONE: (920) 496-0500
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TELEPHONE: (517) 393-6800
E-MAIL: SRILEY@DLZ.COM

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EMAIL: james.doperalski@wisconsin.gov

BROWN COUNTY SURVEYOR

PAT FORD
SURVEY COORDINATOR
BROWN COUNTY
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GREEN BAY, WISCONSIN 54301

TELEPHONE: (920) 448-4493

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TELEPHONE: (920) 822-8895
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(COMMUNICATION LINE)
N7210 SEMINARY HILL
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ATTN: TOM KROS
TELEPHONE: (920) 496-7382

* ONEIDA TRIBE OF INDIANS
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(WATER & ELECTRIC)
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PO BOX 365
ONEIDA, WI 54155
ATTN: SCOTT COTTRELL
TELEPHONE: (920) 497-5806
EMERGENCY PHONE: (920) 562-2911

* WISCONSIN PUBLIC SERVICE
(GAS & ELECTRIC)
700 NORTH ADAMS STREET
PO BOX 19001
GREEN BAY, WI 54307-9001
ATTN: LORI BUTRY
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EMERGENCY PHONE:
800-450-7280 (GAS)
800-450-7240 (ELEC.)
EMAIL: LAButry@integrysgroup.com

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EMERGENCY PHONE: (920) 562-2911

* TIME WARNER CABLE
3520 DESTINATION DR
APPLETON, WI 54915
ATTN: LARRY PIHLSTROM
TELEPHONE: (920) 831-9211
EMAIL: larry.pihlstrom@twcable.com

* INDICATES DIGGER'S HOTLINE MEMBER

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GENERAL NOTES

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO NAVD 29.

THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL IN THE FIELD.

BEARINGS ON THIS PLAN ARE TRUE BEARINGS TO THE NEAREST SECOND.

ALL DISTANCES ARE GROUND DISTANCES.

ALL COORDINATES ARE GROUND COORDINATES.

ALL TIES ON THIS PLAN ARE HORIZONTAL UNLESS DESCRIBED OTHERWISE.

CURVE DATA SHOWN ON THE PLAN IS "ARC DEFINITION".

ALL CURB AND GUTTER RADII, PAVEMENT DIMENSIONS AND STATIONS ARE SHOWN TO THE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

CONSTRUCT INSIDE EDGE OF SIDEWALK 1/4-INCH HIGHER THAN THE TOP OF CURB, WHEN THEY ARE ADJACENT TO EACH OTHER.

A VERTICAL SAWCUT SHALL BE MADE THROUGH PAVEMENTS AT REMOVAL LIMITS.

TOP OF CASTING ELEVATIONS SHOWN FOR INLETS REFER TO THE CASTING ELEVATION AT THE FRONT EDGE OF CASTING.

EXCAVATION BELOW SUBGRADE (EBS) IS USED TO BALANCE YARDAGE AND IS MEASURED AND PAID FOR AS COMMON EXCAVATION.

FILL AS SHOWN ON THE PLANS PERTAINS TO EMBANKMENT CONSTRUCTED FROM BORROW EXCAVATION OR COMMON EXCAVATION. THE ALLOWANCE USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 1.3 FOR BORROW EXCAVATION.

ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE SUBGRADE SHOULDER POINTS, SHALL BE TOPSOILED OR SALVAGED TOPSOILED, FERTILIZED, SEEDED, AND MULCHED, SODDED OR HAVE EMAT APPLIED.

DISTURBED AREAS THAT WERE PREVIOUSLY LAWNS SHALL BE SEEDED WITH SEED MIXTURE NO. 40. SEED MIXTURE NO. 30 SHALL BE USED ON ALL REMAINING CUT AND FILL SLOPES.

EROSION CONTROL FEATURES AS SHOWN ON THE EROSION CONTROL PLAN ARE SUGGESTED LOCATIONS. THEIR EXACT LOCATION WILL BE DETERMINED IN THE FIELD.

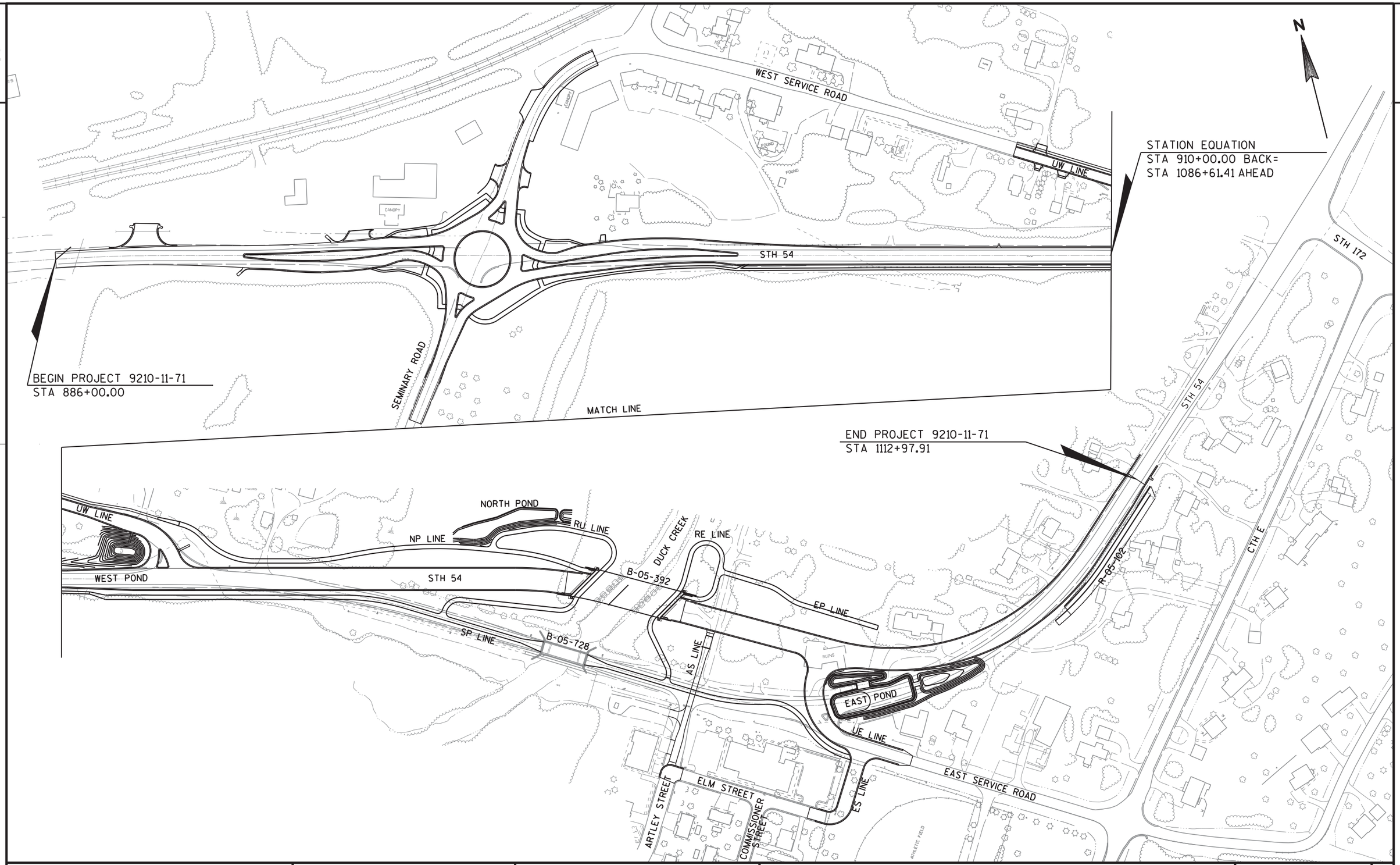
ASPHALTIC SURFACE/HMA PAVEMENT SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYER THICKNESSES:

PAVEMENT THICKNESS (INCH)	LOWER LOWER (INCH)	NOM AGG SIZE (mm)	UPPER LOWER (INCH)	NOM AGG SIZE (mm)	UPPER (INCH)	NOM AGG SIZE (mm)
3.00	---	---	---	---	3.00	12.5
4.00	2.25	19.0	---	---	1.75	12.5
5.00	3.00	19.0	---	---	2.00	12.5
6.50	2.50	19.0	2.25	19.0	1.75	12.5

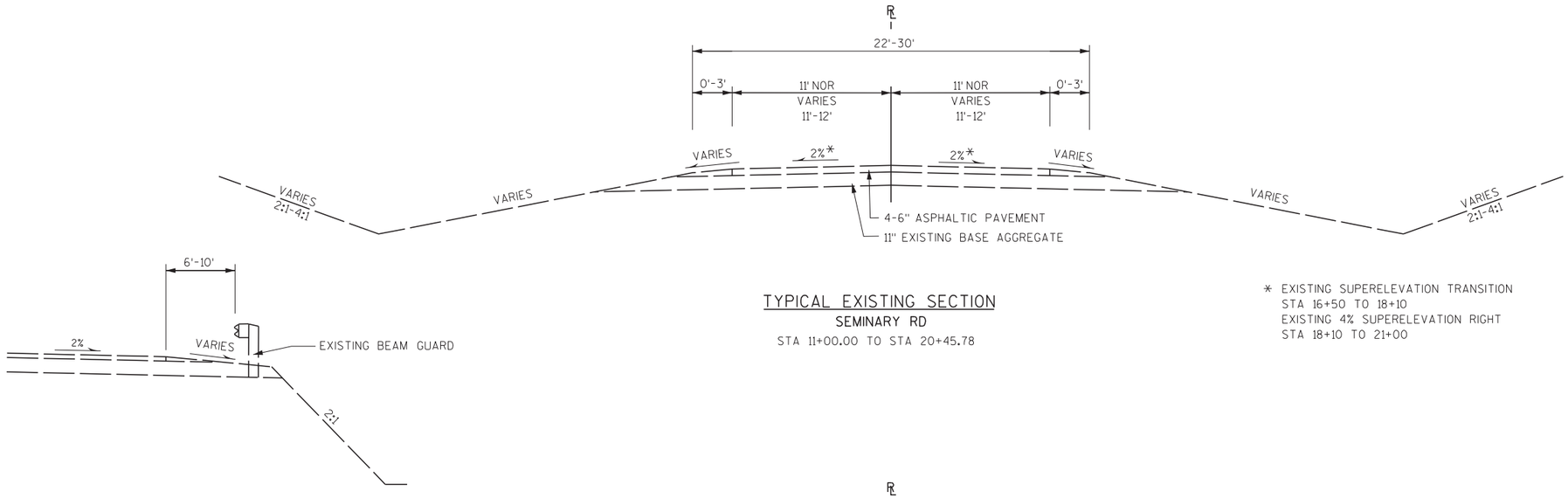
CURB RAMP TYPES ARE SHOWN ON INTERSECTION DETAIL AND PLAN SHEETS.

EXISTING PIPE CULVERT SIZES SHOWN ARE APPROXIMATE AND THE CONTRACTOR SHALL BASE ITS BID ON ACTUAL FIELD CONDITIONS.

STATIONS AND OFFSETS FOR APRON ENDWALLS ARE GIVEN TO THE END OF THE CONNECTING CULVERT PIPE SECTION.



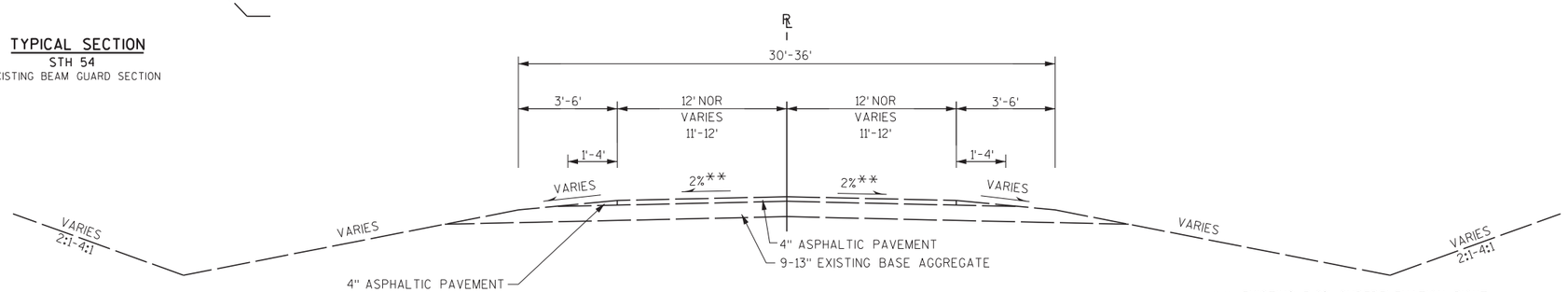
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PROJECT OVERVIEW	SHEET 3	E



TYPICAL EXISTING SECTION
SEMINARY RD
STA 11+00.00 TO STA 20+45.78

* EXISTING SUPERELEVATION TRANSITION
STA 16+50 TO 18+10
EXISTING 4% SUPERELEVATION RIGHT
STA 18+10 TO 21+00

TYPICAL SECTION
STH 54
EXISTING BEAM GUARD SECTION

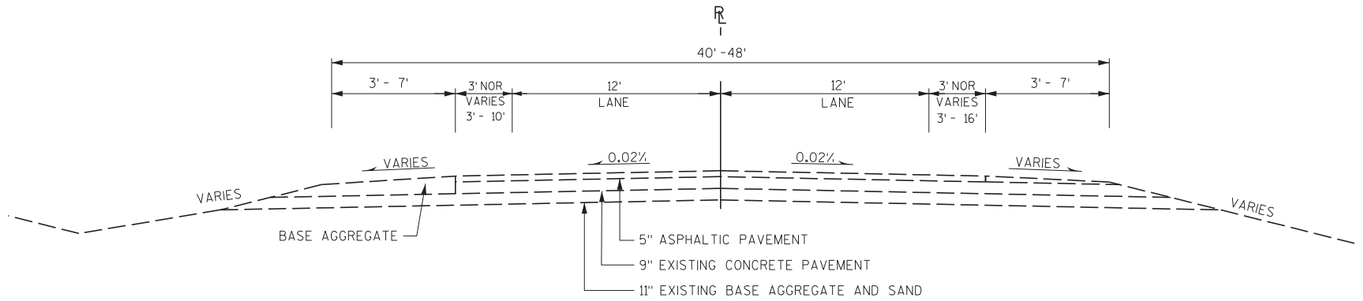


TYPICAL EXISTING SECTION
STH 54
STA 886+00.00 TO STA 910+00.00

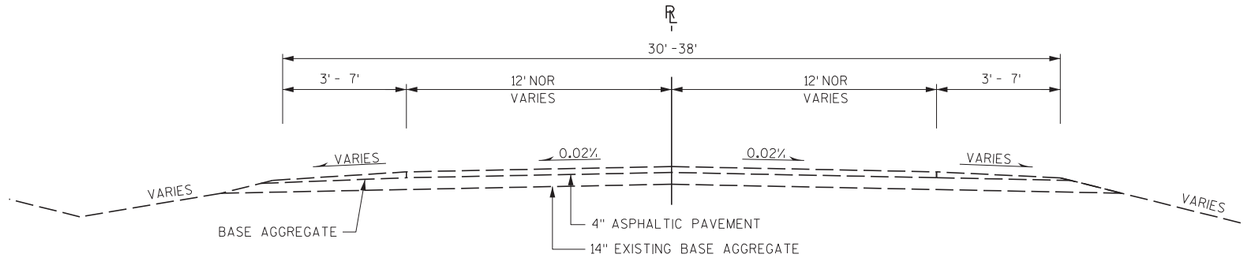
** EXISTING 3.2% SUPERELEVATION RIGHT
STA 884+00 TO 888+25
EXISTING SUPERELEVATION TRANSITION
STA 888+25 TO 889+50

EXISTING SUPERELEVATION TRANSITION
STA 911+10 TO 912+80
EXISTING 5.1% SUPERELEVATION LEFT
STA 912+80 TO 913+50

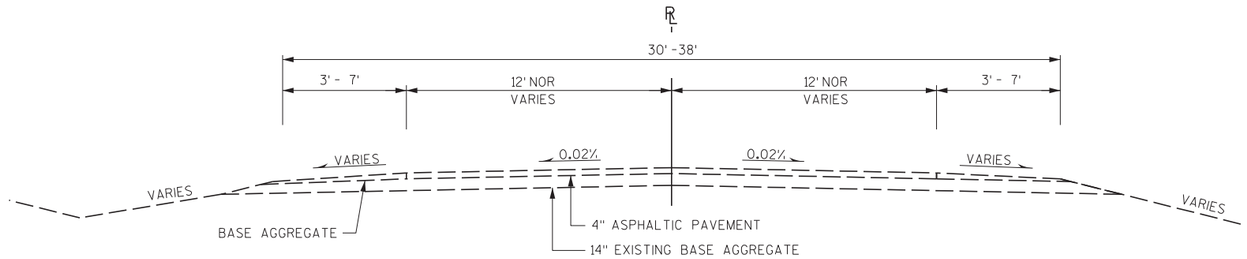
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	TYPICAL SECTIONS	SHEET 4	E



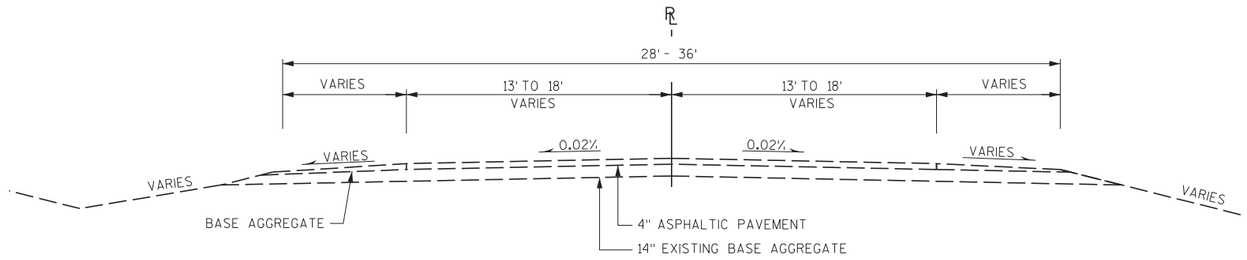
EXISTING TYPICAL SECTION
STH 54
STA 1086+61.23 TO STA 1112+98



EXISTING TYPICAL SECTION
CTH U / EAST SERVICE ROAD
STA 20+00UE TO STA 23+75UE



EXISTING TYPICAL SECTION
CTH U / WEST SERVICE ROAD
STA 16+50UW TO STA 22+18UW



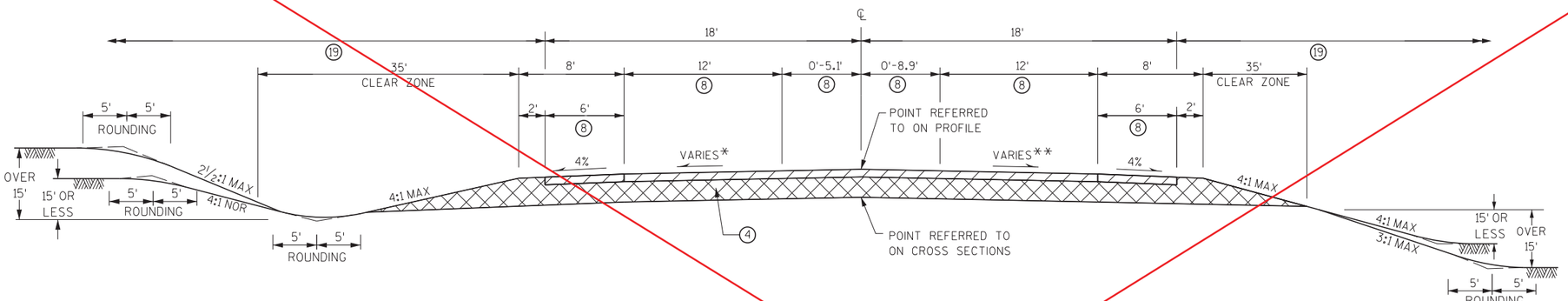
EXISTING TYPICAL SECTION
ARTLEY STREET
STA 40+00AS TO STA 41+75AS

*ACTUAL DEPTHS OF MATERIALS MAY VARY FROM DIMENSIONS PROVIDED

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	TYPICAL SECTIONS	SHEET 5	E

(22) CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE G

See Revised Sheet 6



TYPICAL FINISHED SECTION
STH 54
STA 886+00 TO STA 890+30

IN CUT

KEY

(8) 6 1/2" HMA PAVEMENT E-10

(4) 19" BASE AGGREGATE DENSE 1 1/4-INCH

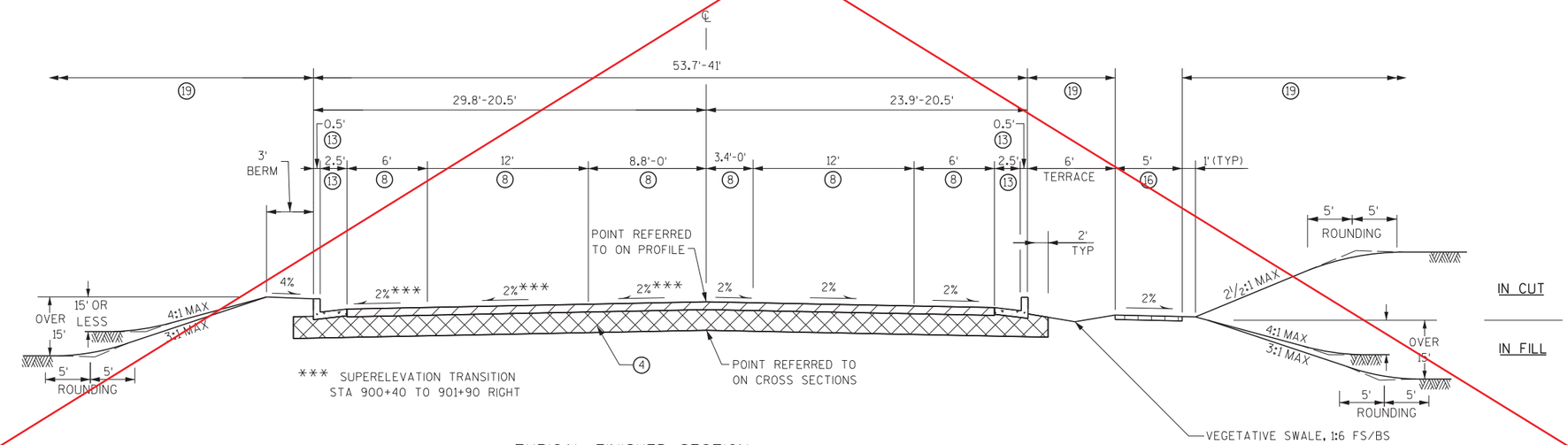
(13) CONCRETE CURB AND GUTTER SLOPED 36-INCH TYPE D

(16) CONCRETE SIDEWALK 4-INCH

(19) SEEDING MIXTURE NO 30, SEEDING TEMPORARY AND FERTILIZER TYPE B

* WESTBOUND STH-54 SUPERELEVATION
3.2% SUPERELEVATION RIGHT
STA 886+00 TO 888+25
SUPERELEVATION TRANSITION
STA 888+25 TO 889+00
CROWN RUNOUT
STA 889+00 TO 889+50

** EASTBOUND STH-54 SUPERELEVATION
3.2% SUPERELEVATION RIGHT
STA 886+00 TO 888+25
SUPERELEVATION TRANSITION
STA 888+25 TO 888+65
2.5% SUPERELEVATION RIGHT
STA 886+65 TO 890+25
SUPERELEVATION TRANSITION
STA 890+25 TO 890+50



*** SUPERELEVATION TRANSITION
STA 900+40 TO 901+90 RIGHT

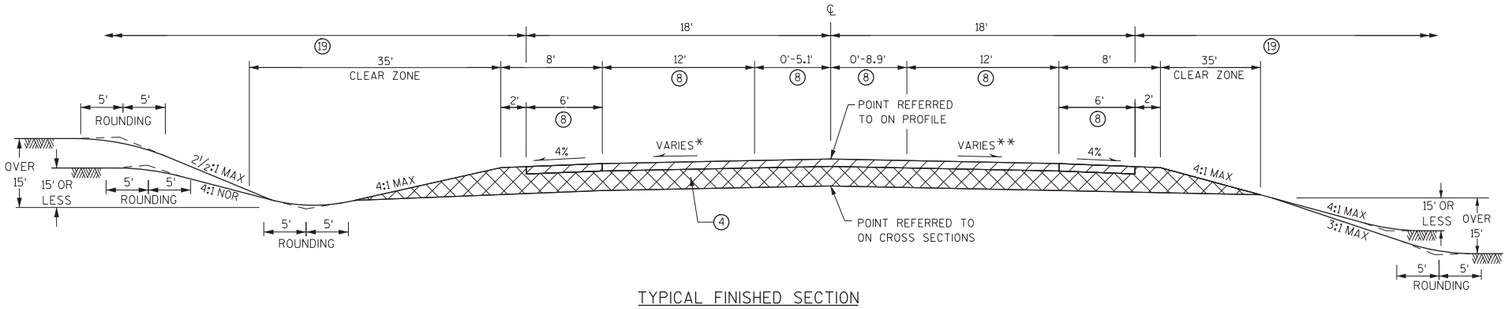
TYPICAL FINISHED SECTION
STH 54
STA 901+50 TO STA 910+00

IN CUT

IN FILL

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	TYPICAL SECTIONS	SHEET 6	E

2



TYPICAL FINISHED SECTION
STH 54
STA 886+00 TO STA 890+30

IN CUT

KEY

⑧ 6 1/2" HMA PAVEMENT E-10

④ 19" BASE AGGREGATE DENSE 1 1/4-INCH

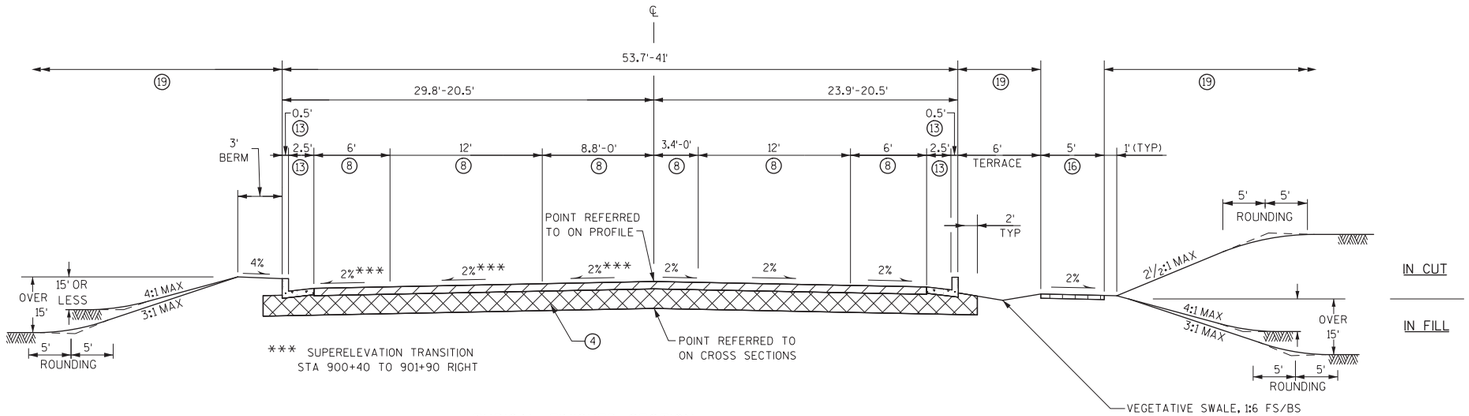
⑬ CONCRETE CURB AND GUTTER SLOPED 36-INCH TYPE D

⑯ CONCRETE SIDEWALK 4-INCH

⑲ RESTORATION (SEE EROSION CONTROL PLAN DETAILS, AND LANDSCAPING PLANS FOR INFORMATION)

* WESTBOUND STH-54 SUPERELEVATION
3.2% SUPERELEVATION RIGHT
STA 886+00 TO 888+25
SUPERELEVATION TRANSITION
STA 888+25 TO 889+00
CROWN RUNOUT
STA 889+00 TO 889+50

** EASTBOUND STH-54 SUPERELEVATION
3.2% SUPERELEVATION RIGHT
STA 886+00 TO 888+25
SUPERELEVATION TRANSITION
STA 888+25 TO 888+65
2.5% SUPERELEVATION RIGHT
STA 886+65 TO 890+25
SUPERELEVATION TRANSITION
STA 890+25 TO 890+50



TYPICAL FINISHED SECTION
STH 54
STA 901+50 TO STA 910+00

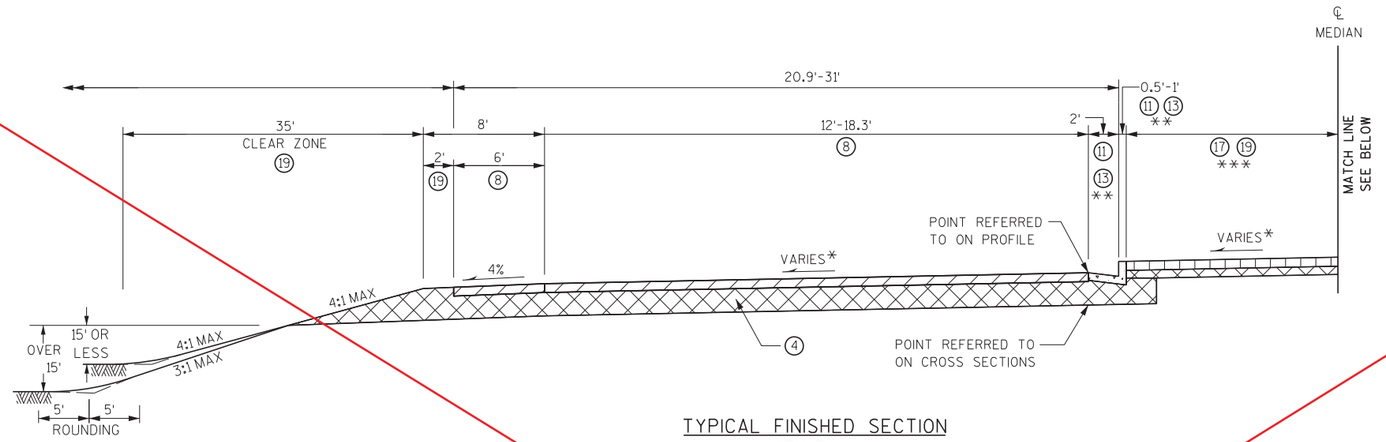
IN CUT

IN FILL

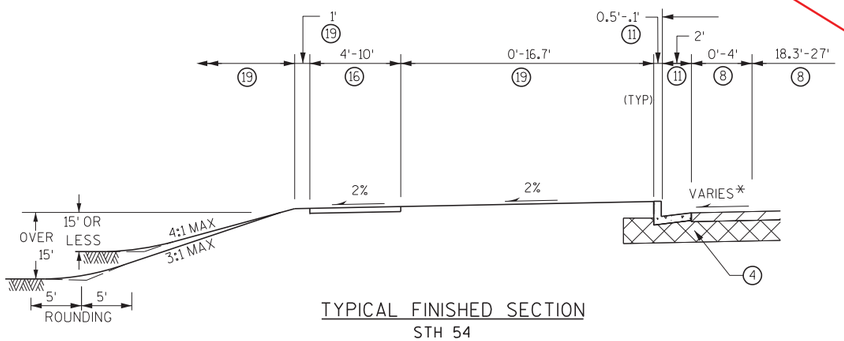
Addendum No. 2
ID 9210-11-71
Revised Sheet 6
March 5, 2012

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	TYPICAL SECTIONS	SHEET 6A	E

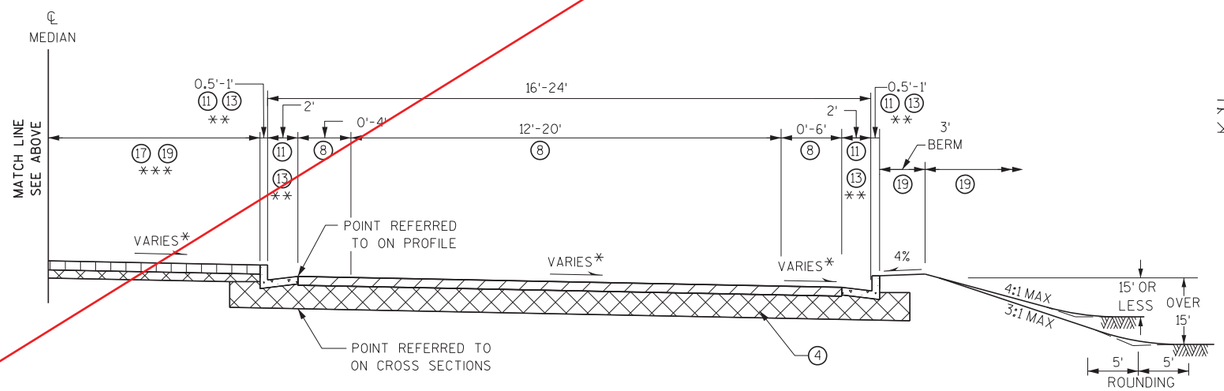
FILE NAME : 020302_ts.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : N/A WISDOT/CADDS SHEET



TYPICAL FINISHED SECTION
STH 54
STA 890+30 TO STA 894+75 LEFT



TYPICAL FINISHED SECTION
STH 54
STA 893+50 TO STA 894+75 LEFT



TYPICAL FINISHED SECTION
STH 54
STA 890+30 TO STA 894+75 RIGHT

KEY

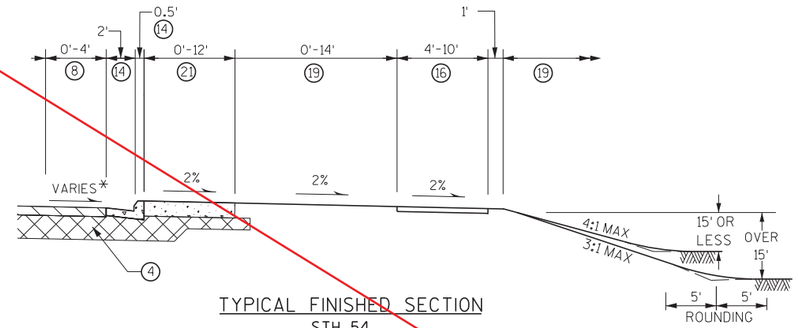
- (4) 19" BASE AGGREGATE DENSE 1 1/4-INCH (MIN)
- (8) 6 1/2" HMA PAVEMENT E-10
- (11) CONCRETE CURB & GUTTER 30-INCH TYPE D
- (13) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
- (14) CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE G
- (16) CONCRETE SIDEWALK, 4-INCH
- (17) CONCRETE SIDEWALK 5-INCH
- (19) SEEDING MIXTURE NO 30, SEEDING TEMPORARY AND FERTILIZER TYPE B
- (21) CONCRETE ROUNDABOUT TRUCK APRON 8-INCH

EASTBOUND STH-54 SUPERELEVATION
SUPERELEVATION TRANSITION
STA 890+25 TO 890+50
NORMAL 2% CROSS-SLOPE
STA 890+50 TO 894+75

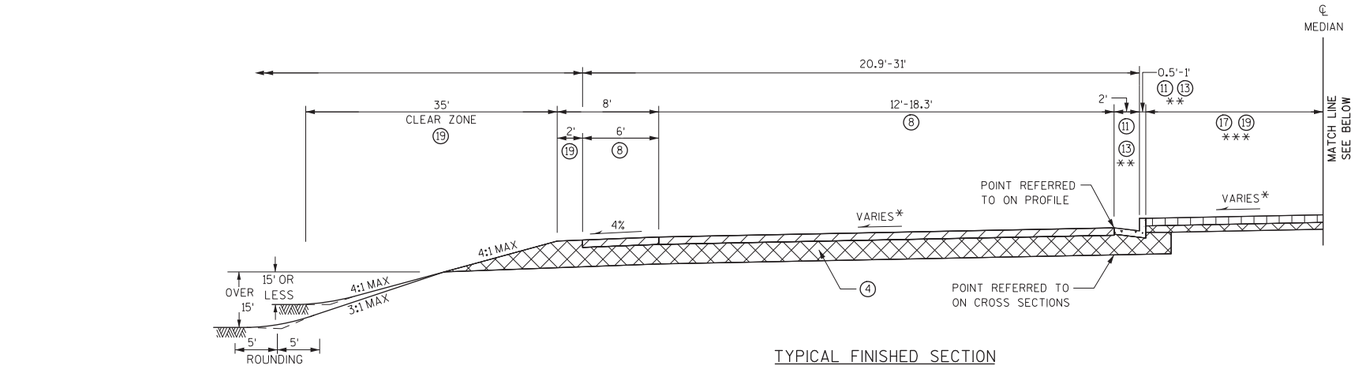
* SEE PAVEMENT DETAIL SHEETS FOR CROSS SLOPE INFORMATION

** CONCRETE CURB & GUTTER 4-INCH 30-INCH TYPE D
DESIGN SPEED LESS THAN OR EQUAL TO 40 MPH
STA 892+20 TO STA 894+75
-OR-
CONCRETE CURB & GUTTER 4-INCH 36-INCH SLOPED
TYPE D DESIGN SPEED GREATER THAN 40 MPH
STA 890+33 TO STA 892+20

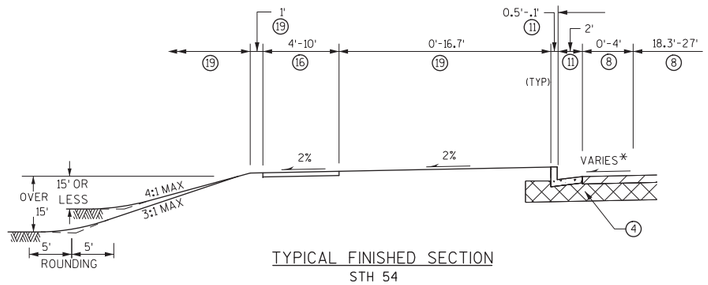
*** SEEDING MIXTURE NO 30, SEEDING TEMPORARY AND FERTILIZER TYPE B
STA 890+33 TO STA 894+00
-OR-
CONCRETE SIDEWALK 5-INCH
STA 894+00 TO STA 894+75



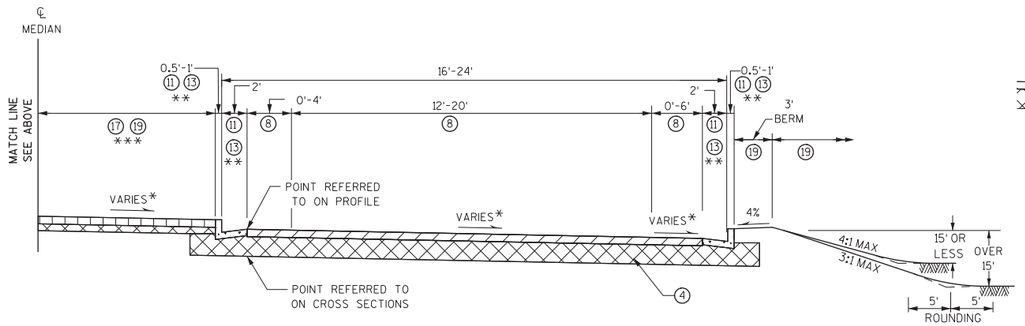
TYPICAL FINISHED SECTION
STH 54
STA 893+50 TO STA 894+75 LEFT



TYPICAL FINISHED SECTION
STH 54
STA 890+30 TO STA 894+75 LEFT



TYPICAL FINISHED SECTION
STH 54
STA 893+50 TO STA 894+75 LEFT



TYPICAL FINISHED SECTION
STH 54
STA 890+30 TO STA 894+75 RIGHT

KEY

④ 19" BASE AGGREGATE DENSE 1 1/4-INCH (MIN)

⑧ 6 1/2" HMA PAVEMENT E-10

⑪ CONCRETE CURB & GUTTER 30-INCH TYPE D

⑬ CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D

⑭ CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE G

⑯ CONCRETE SIDEWALK, 4-INCH

⑰ CONCRETE SIDEWALK 5-INCH

⑲ RESTORATION (SEE EROSION CONTROL PLAN DETAILS, AND LANDSCAPING PLANS FOR INFORMATION)

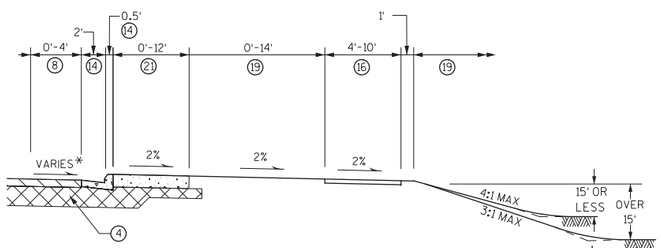
㉑ CONCRETE ROUNDABOUT TRUCK APRON 8-INCH

EASTBOUND STH-54 SUPERELEVATION
SUPERELEVATION TRANSITION
STA 890+25 TO 890+50
NORMAL 2% CROSS-SLOPE
STA 890+50 TO 894+75

* SEE PAVEMENT DETAIL SHEETS FOR CROSS SLOPE INFORMATION

** CONCRETE CURB & GUTTER 4-INCH 30-INCH TYPE D
DESIGN SPEED LESS THAN OR EQUAL TO 40 MPH
STA 892+20 TO STA 894+75
-OR-
CONCRETE CURB & GUTTER 4-INCH 36-INCH SLOPED
TYPE D DESIGN SPEED GREATER THAN 40 MPH
STA 890+33 TO STA 892+20

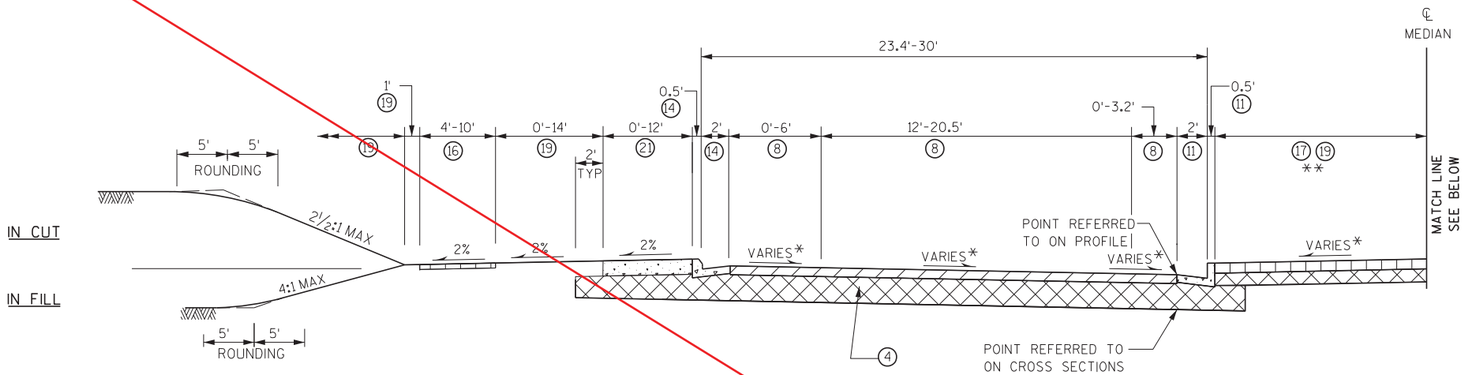
*** SEEDING MIXTURE NO 30, SEEDING TEMPORARY AND FERTILIZER TYPE B
STA 890+33 TO STA 894+00
-OR-
CONCRETE SIDEWALK 5-INCH
STA 894+00 TO STA 894+75



TYPICAL FINISHED SECTION
STH 54
STA 893+50 TO STA 894+75 RIGHT

Addendum No. 2
ID 9210-11-71
Revised Sheet 7
March 5, 2012

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	TYPICAL SECTIONS	SHEET 7A	E



TYPICAL FINISHED SECTION
STH 54
STA 896+68 TO STA 901+50 LEFT

WESTBOUND STH-54 SUPERELEVATION
CROWN RUNOUT
STA 897+70 TO 898+30
SUPERELEVATION TRANSITION
STA 898+30 TO 899+20
4% SUPERELEVATION RIGHT
STA 899+20 TO 900+40
SUPERELEVATION TRANSITION
STA 900+40 TO 901+30
CROWN RUNOUT
STA 901+30 TO 901+90

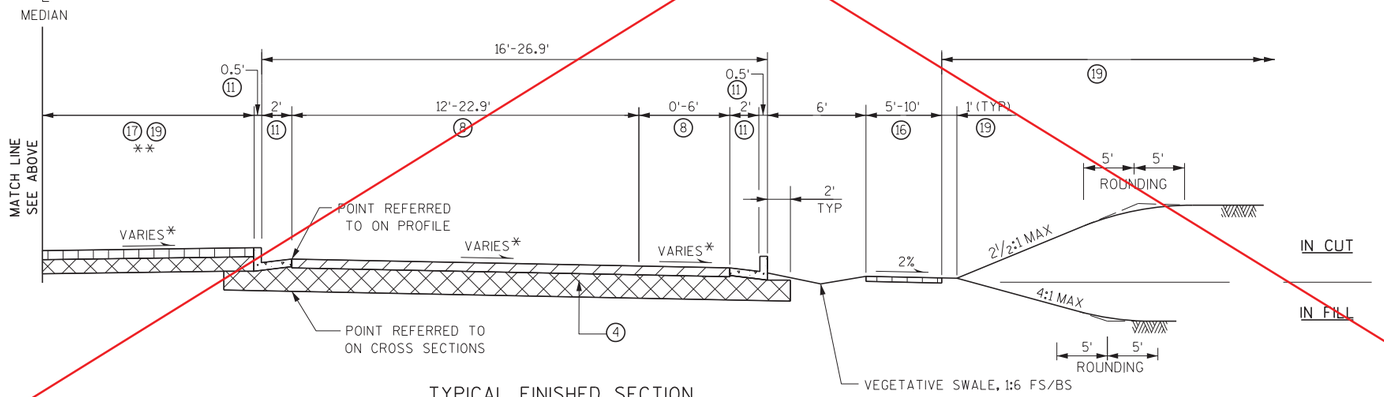
SEE PLAN DETAILS FOR LOCATIONS
OF REVERSE PAN CURB AND GUTTER

KEY

(4) 19" BASE AGGREGATE DENSE 1 1/4-INCH (MIN)
(8) 6 1/2" HMA PAVEMENT E-10
(11) CONCRETE CURB & GUTTER 30-INCH TYPE D
(14) CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE G
(16) CONCRETE SIDEWALK, 4-INCH
(17) CONCRETE SIDEWALK 5-INCH
(19) SEEDING MIXTURE NO 30, SEEDING TEMPORARY AND FERTILIZER TYPE B
(21) CONCRETE ROUNDABOUT TRUCK APRON 8-INCH

* SEE PAVEMENT DETAIL SHEETS FOR CROSS SLOPE INFORMATION

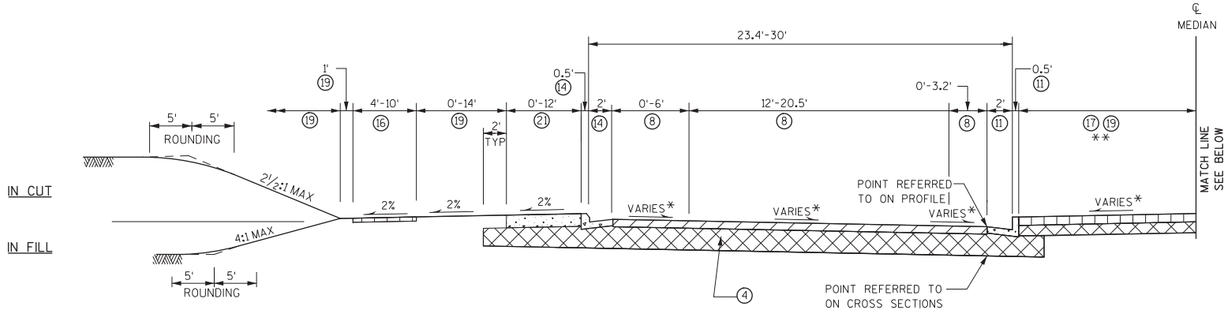
** SEEDING MIXTURE NO 30, SEEDING TEMPORARY AND FERTILIZER TYPE B
STA 897+50 TO STA 901+50
-OR-
CONCRETE ROUNDABOUT TRUCK APRON 8-INCH
STA 896+68 TO STA 897+50



TYPICAL FINISHED SECTION
STH 54
STA 896+68 TO STA 901+50 RIGHT

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	TYPICAL SECTIONS	SHEET E

FILE NAME : 020304_ts.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : N/A WISDOT/CADDS SHEET



TYPICAL FINISHED SECTION
STH 54
STA 896+68 TO STA 901+50 LEFT

WESTBOUND STH-54 SUPERELEVATION
CROWN RUNOUT
STA 897+70 TO 898+30
SUPERELEVATION TRANSITION
STA 898+30 TO 899+20
4% SUPERELEVATION RIGHT
STA 899+20 TO 900+40
SUPERELEVATION TRANSITION
STA 900+40 TO 901+30
CROWN RUNOUT
STA 901+30 TO 901+90

SEE PLAN DETAILS FOR LOCATIONS
OF REVERSE PAN CURB AND GUTTER

KEY

(4) 19" BASE AGGREGATE DENSE 1 1/4-INCH (MIN)

(8) 6 1/2" HMA PAVEMENT E-10

(11) CONCRETE CURB & GUTTER 30-INCH TYPE D

(14) CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE G

(16) CONCRETE SIDEWALK, 4-INCH

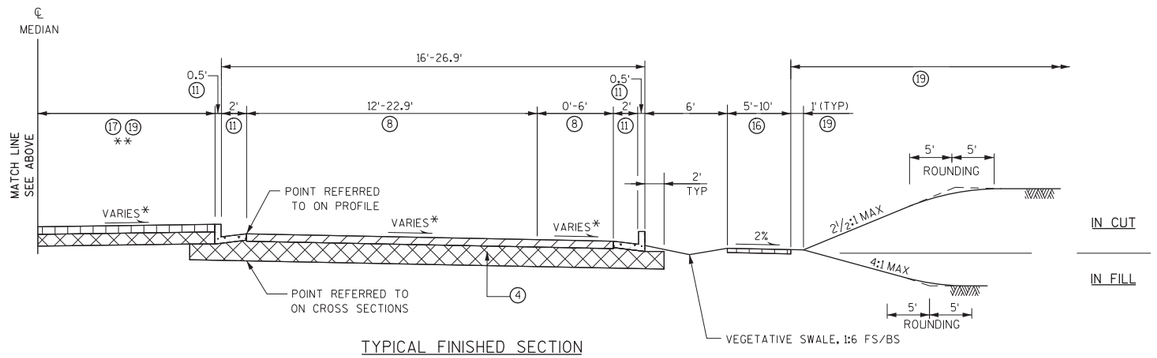
(17) CONCRETE SIDEWALK 5-INCH

(19) RESTORATION (SEE EROSION CONTROL PLAN DETAILS, AND LANDSCAPING PLANS FOR INFORMATION)

(21) CONCRETE ROUNDABOUT TRUCK APRON 8-INCH

* SEE PAVEMENT DETAIL SHEETS FOR CROSS SLOPE INFORMATION

** SEEDING MIXTURE NO 30, SEEDING TEMPORARY AND FERTILIZER TYPE B
STA 897+50 TO STA 901+50
-OR-
CONCRETE ROUNDABOUT TRUCK APRON 8-INCH
STA 896+68 TO STA 897+50

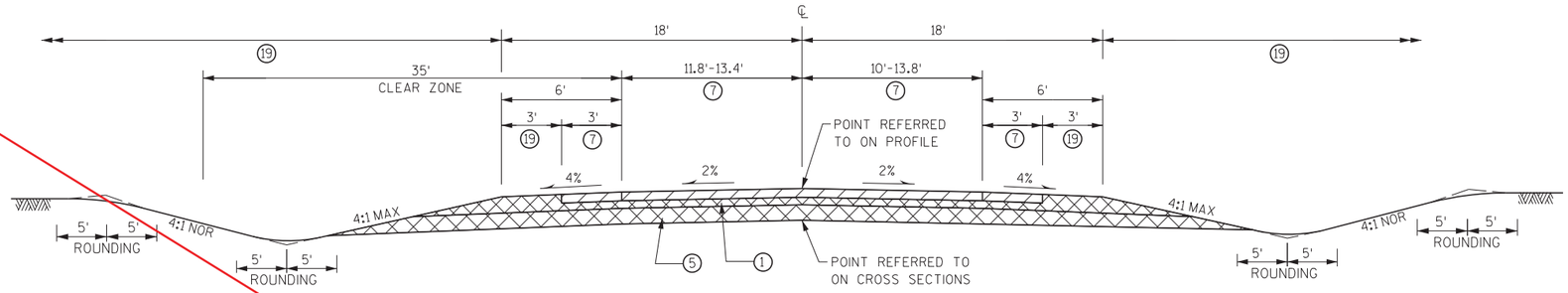


TYPICAL FINISHED SECTION
STH 54
STA 896+68 TO STA 901+50 RIGHT

Addendum No. 2
ID 9210-11-71
Revised Sheet 8
March 5, 2012

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	TYPICAL SECTIONS	SHEET 8A	E

FILE NAME : 020304_ts.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : N/A WISDOT/CADDS SHEET



TYPICAL FINISHED SECTION

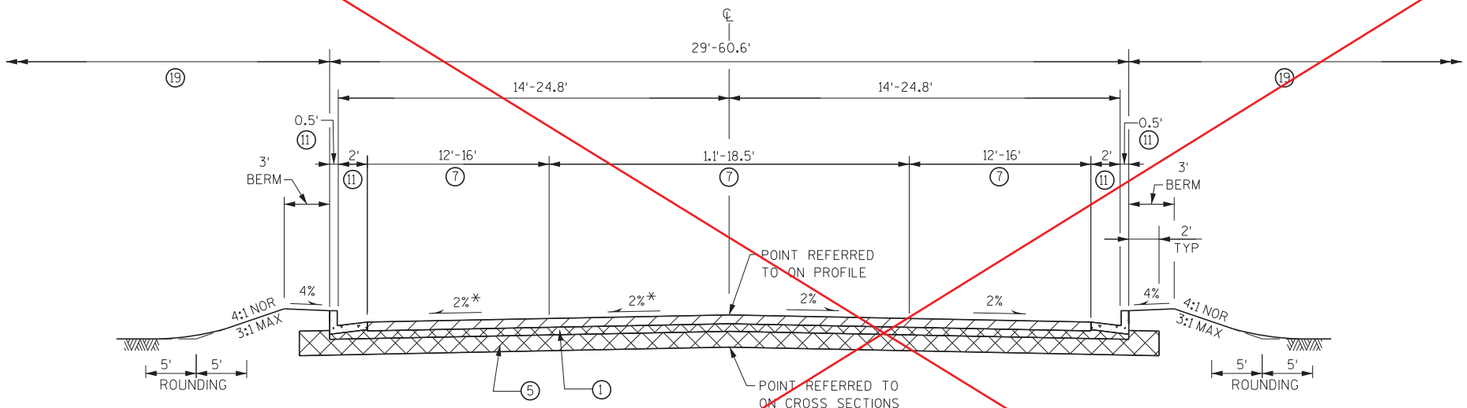
SEMINARY RD

STA 11+00 TO STA 12+00

KEY

1. 6" BASE AGGREGATE DENSE 1 1/4-INCH (MIN)
5. 12" BREAKER RUN
7. 5" HMA PAVEMENT E-1
11. CONCRETE CURB & GUTTER 30-INCH TYPE D
13. CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
19. SEEDING MIXTURE NO 30, SEEDING TEMPORARY AND FERTILIZER TYPE B

* SEE PAVEMENT DETAIL SHEETS FOR CROSS SLOPE INFORMATION

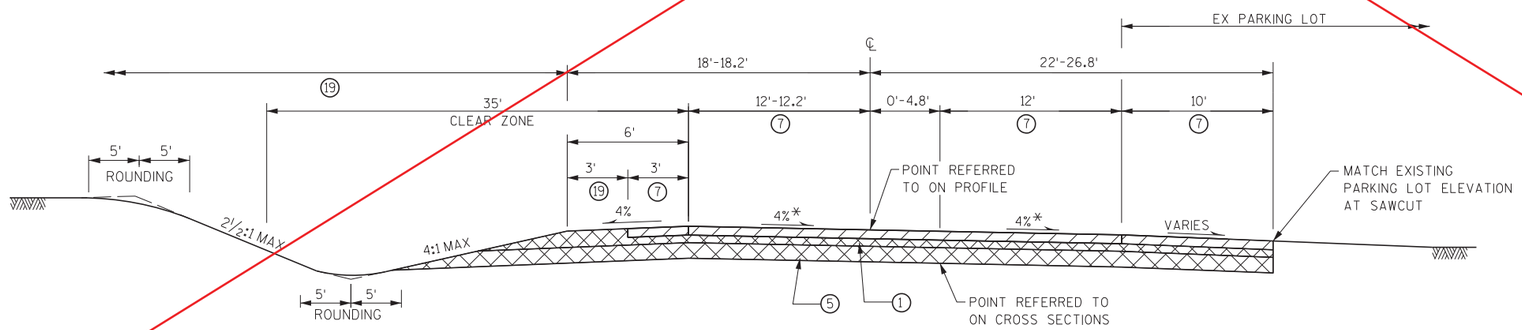


TYPICAL FINISHED SECTION

SEMINARY RD

STA 12+00 TO STA 13+53

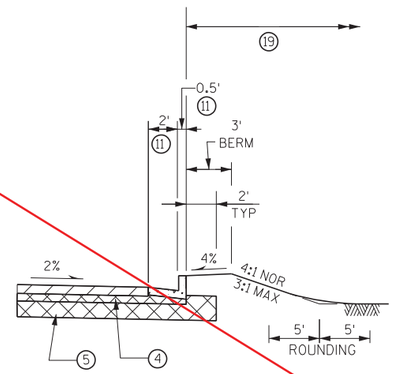
STA 16+46 TO STA 17+50



TYPICAL FINISHED SECTION

SEMINARY RD

STA 17+50 TO STA 20+45.78

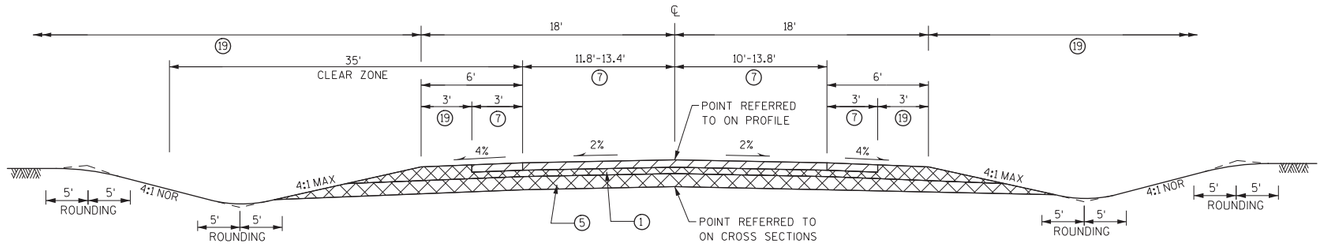


TYPICAL FINISHED SECTION

SEMINARY RD

STA 17+50 TO STA 17+90 RIGHT

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	TYPICAL SECTIONS	SHEET 9	E



TYPICAL FINISHED SECTION

SEMINARY RD

STA 11+00 TO STA 12+00

KEY

① 6" BASE AGGREGATE DENSE 1 1/4-INCH (MIN)

⑤ 12" BREAKER RUN

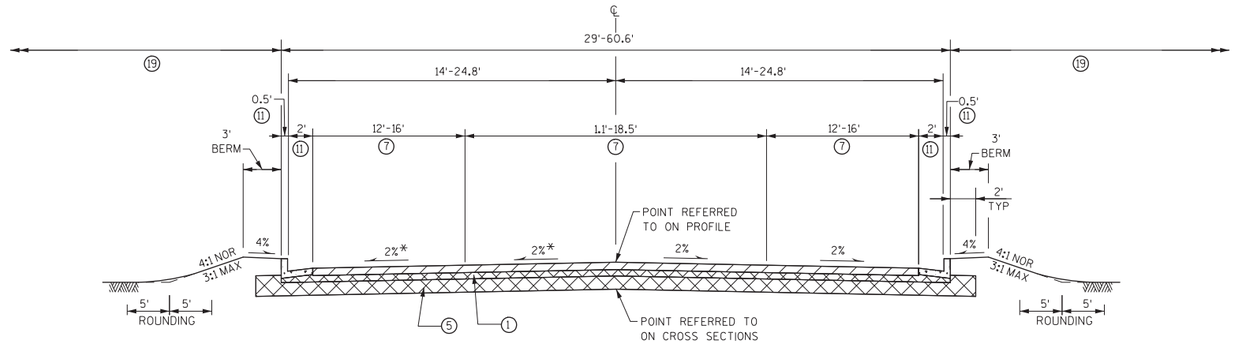
⑦ 5" HMA PAVEMENT E-1

⑪ CONCRETE CURB & GUTTER 30-INCH TYPE D

⑬ CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D

⑲ RESTORATION (SEE EROSION CONTROL PLAN DETAILS, AND LANDSCAPING PLANS FOR INFORMATION)

* SEE PAVEMENT DETAIL SHEETS FOR CROSS SLOPE INFORMATION

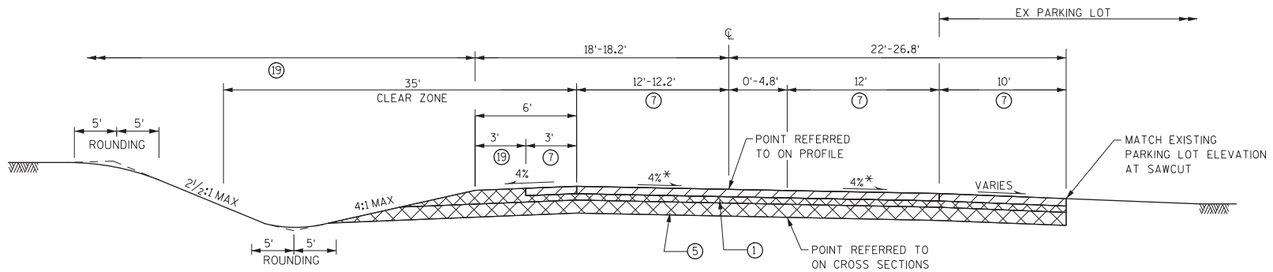


TYPICAL FINISHED SECTION

SEMINARY RD

STA 12+00 TO STA 13+53

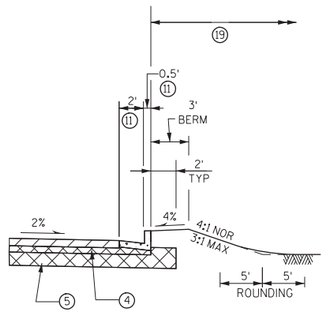
STA 16+46 TO STA 17+50



TYPICAL FINISHED SECTION

SEMINARY RD

STA 17+50 TO STA 20+45.78



TYPICAL FINISHED SECTION

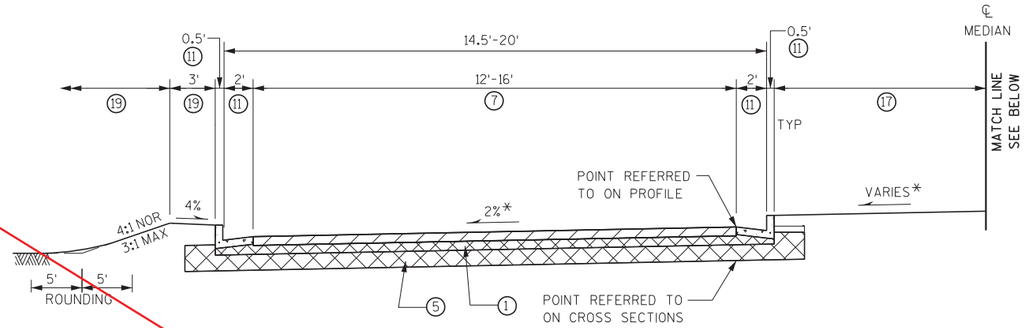
SEMINARY RD

STA 17+50 TO STA 17+90 RIGHT

Addendum No. 2
ID 9210-11-71
Revised Sheet 9
March 5, 2012

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	TYPICAL SECTIONS	SHEET 9 A	E

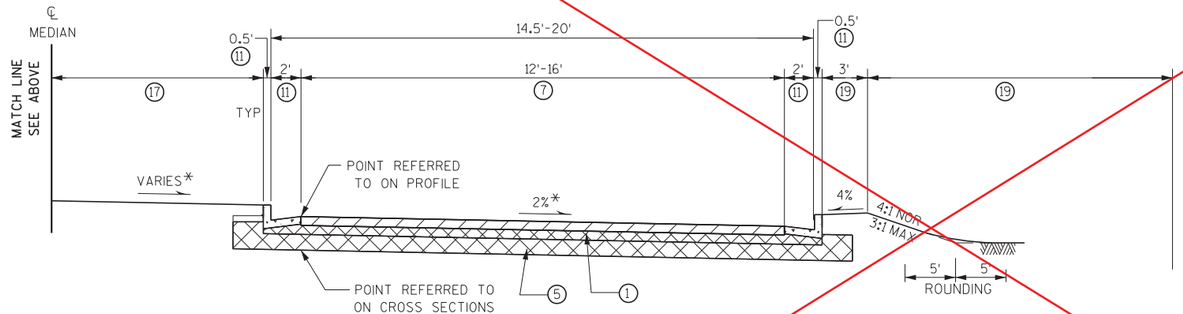
FILE NAME : 020305_ts.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : N/A WISDOT/CADDS SHEET



TYPICAL FINISHED SECTION

SEMINARY RD

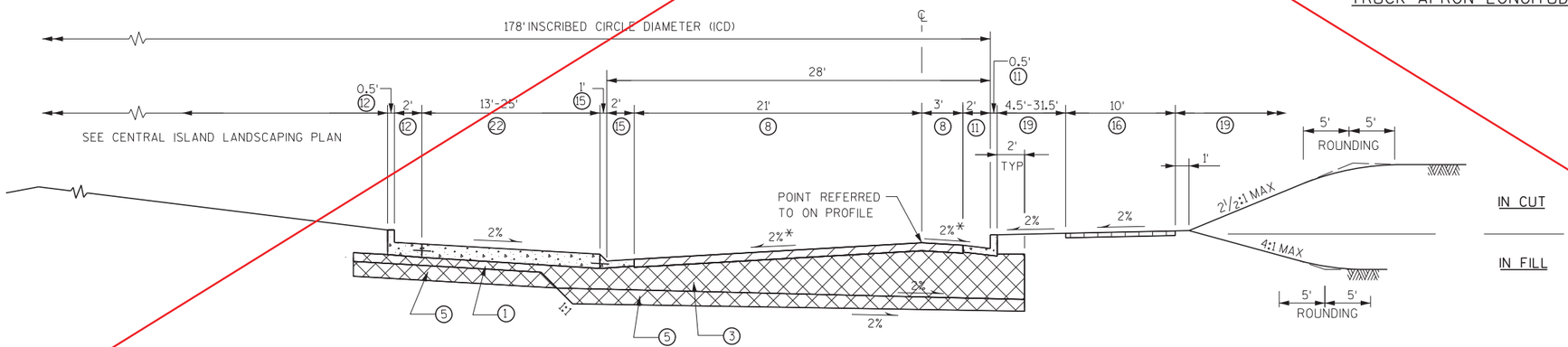
STA 13+56 TO STA 14+00 LEFT
STA 16+00 TO STA 16+33 LEFT



TYPICAL FINISHED SECTION

SEMINARY RD

STA 13+56 TO STA 14+00 RIGHT
STA 16+00 TO STA 16+33 RIGHT



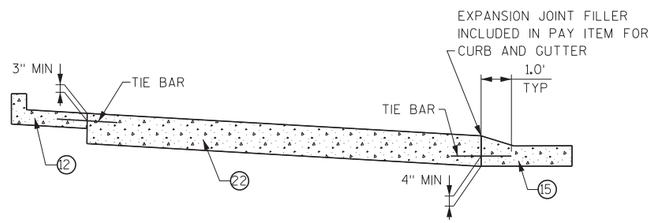
TYPICAL FINISHED SECTION

STH 54
SEMINARY RD
CIRCULATING ROADWAY

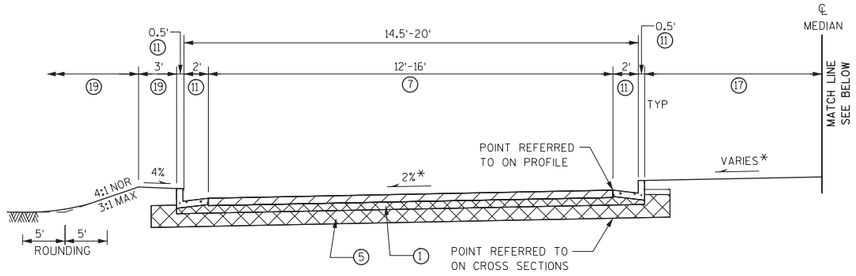
KEY

1. 6" BASE AGGREGATE DENSE 1¼-INCH
3. 16" BASE AGGREGATE DENSE 1¼-INCH
5. 12" BREAKER RUN
7. 5" HMA PAVEMENT TYPE E-1
8. 6 1/2" HMA PAVEMENT E-10
11. CONCRETE CURB AND GUTTER 30-INCH TYPE D
12. CONCRETE CURB AND GUTTER 30-INCH TYPE K
15. CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
16. CONCRETE SIDEWALK 4-INCH
17. CONCRETE SIDEWALK 5-INCH
19. SEEDING MIXTURE NO. 30, SEEDING TEMPORARY AND FERTILIZER TYPE B
22. COLORED CONCRETE PAVEMENT 12-INCH

* SEE PAVEMENT DETAIL SHEETS FOR CROSS SLOPE INFORMATION



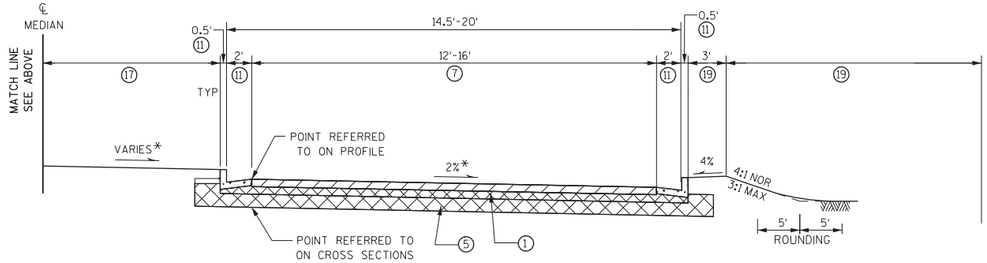
TRUCK APRON LONGITUDINAL JOINT DETAIL



TYPICAL FINISHED SECTION

SEMINARY RD

STA 13+56 TO STA 14+00 LEFT
STA 16+00 TO STA 16+33 LEFT



TYPICAL FINISHED SECTION

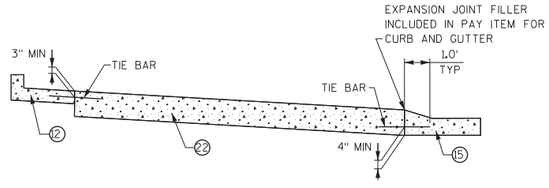
SEMINARY RD

STA 13+56 TO STA 14+00 RIGHT
STA 16+00 TO STA 16+33 RIGHT

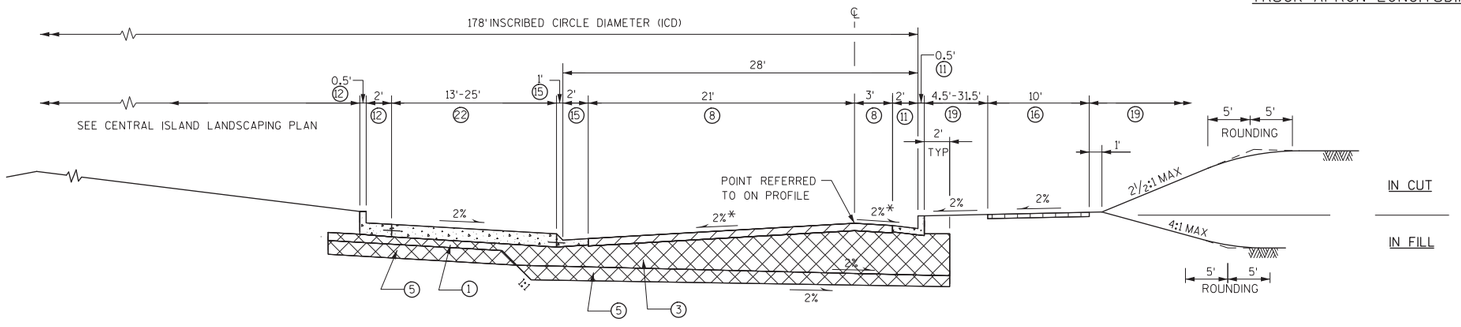
KEY

(1) 6" BASE AGGREGATE DENSE 1¼-INCH
(3) 16" BASE AGGREGATE DENSE 1¼-INCH
(5) 12" BREAKER RUN
(7) 5" HMA PAVEMENT TYPE E-1
(8) 6 1/2" HMA PAVEMENT E-10
(11) CONCRETE CURB AND GUTTER 30-INCH TYPE D
(12) CONCRETE CURB AND GUTTER 30-INCH TYPE K
(15) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE T
(16) CONCRETE SIDEWALK 4-INCH
(17) CONCRETE SIDEWALK 5-INCH
(19) RESTORATION (SEE EROSION CONTROL PLAN DETAILS, AND LANDSCAPING PLANS FOR INFORMATION)
(22) COLORED CONCRETE PAVEMENT 12-INCH

* SEE PAVEMENT DETAIL SHEETS FOR CROSS SLOPE INFORMATION



TRUCK APRON LONGITUDINAL JOINT DETAIL



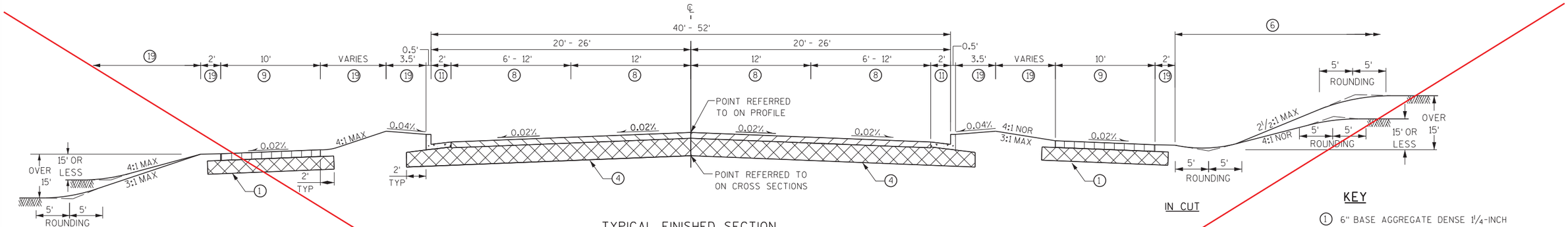
TYPICAL FINISHED SECTION

STH 54
SEMINARY RD
CIRCULATING ROADWAY

Addendum No. 2
ID 9210-11-71
Revised Sheet 10
March 5, 2012

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	TYPICAL SECTIONS	SHEET 10A	E

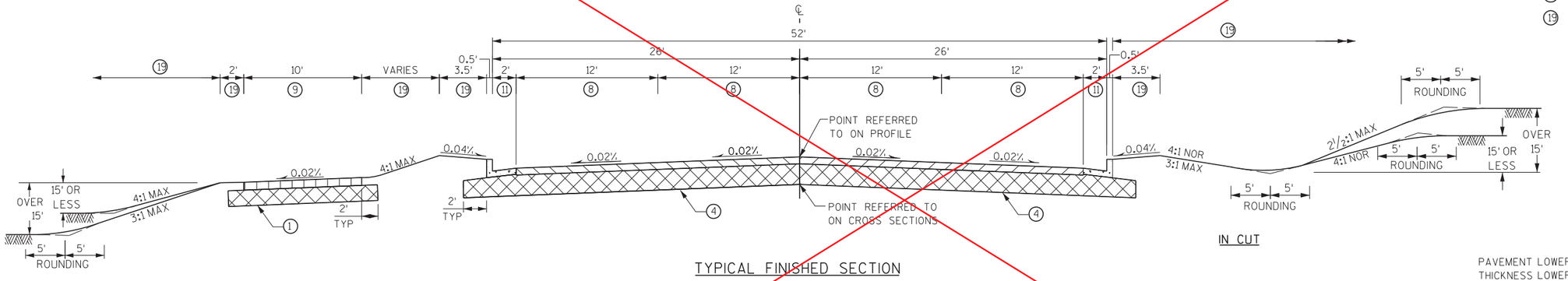
FILE NAME : 020306_ts.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : N/A WISDOT/CADDS SHEET



TYPICAL FINISHED SECTION
STH 54
STA 1086+61.41 TO STA 1099+00.00

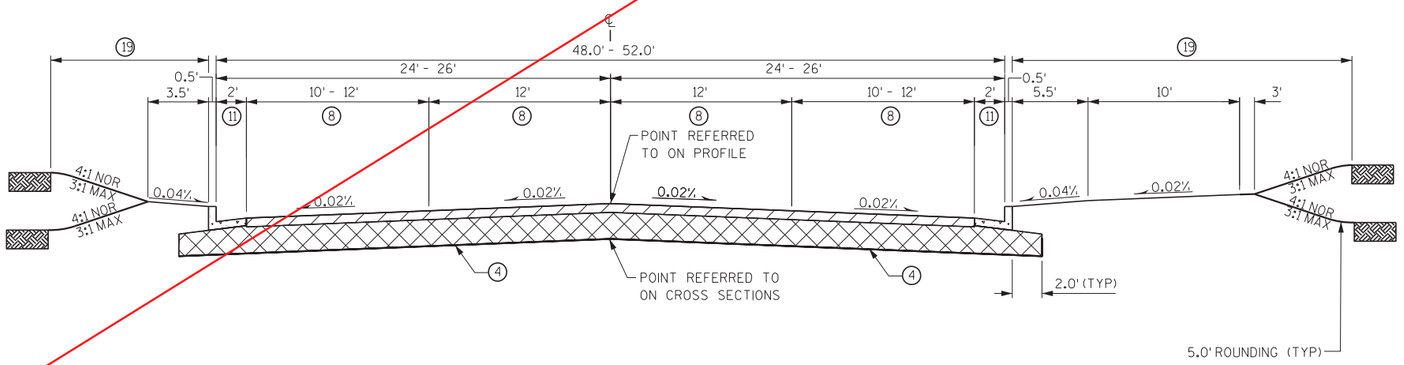
KEY

1. 6" BASE AGGREGATE DENSE 1¼-INCH
4. 19" BASE AGGREGATE DENSE 1¼-INCH
8. 6 1/2" HMA PAVEMENT E-10
9. 3" ASPHALTIC SURFACE
11. CONCRETE CURB AND GUTTER 30-INCH TYPE D
18. 6" TOPSOIL (TYP)
19. SEEDING MIXTURE NO. 30, SEEDING TEMPORARY AND FERTILIZER TYPE B

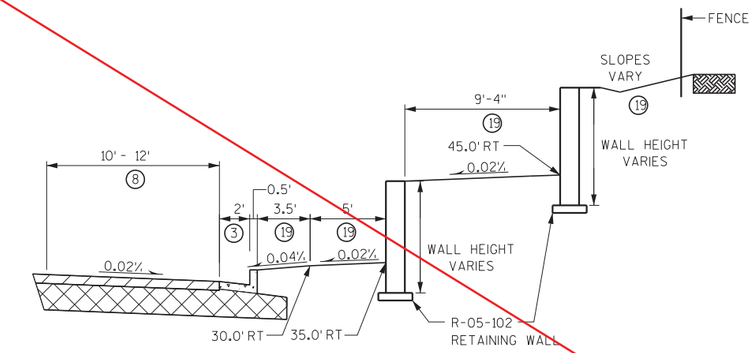


TYPICAL FINISHED SECTION
STH 54
STA 1099+00.00 TO STA 1104+50.00

PAVEMENT THICKNESS (INCH)	LOWER LOWER (INCH)	NOM AGG SIZE (mm)	UPPER LOWER (INCH)	NOM AGG SIZE (mm)	UPPER (INCH)	NOM AGG SIZE (mm)
6.50	2.50	19.0	2.25	19.0	1.75	12.5

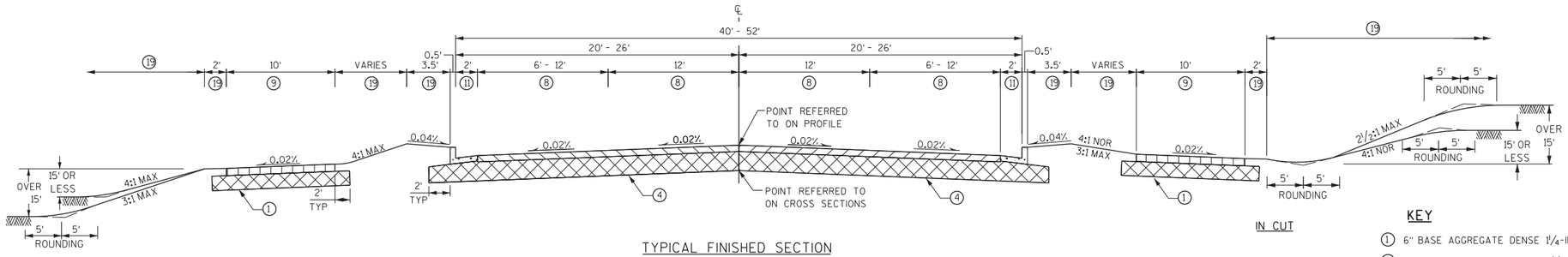


TYPICAL FINISHED SECTION
STH 54
STA 1104+50.00 TO STA 1112+97.91



TYPICAL RETAINING WALL SECTION
STA 1109+39.44 - STA 1113+00.82

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	TYPICAL SECTIONS	SHEET 11	E



IN FILL

IN CUT

TYPICAL FINISHED SECTION

STH 54

STA 1086+61.41 TO STA 1099+00.00

KEY

(1) 6" BASE AGGREGATE DENSE 1¼-INCH

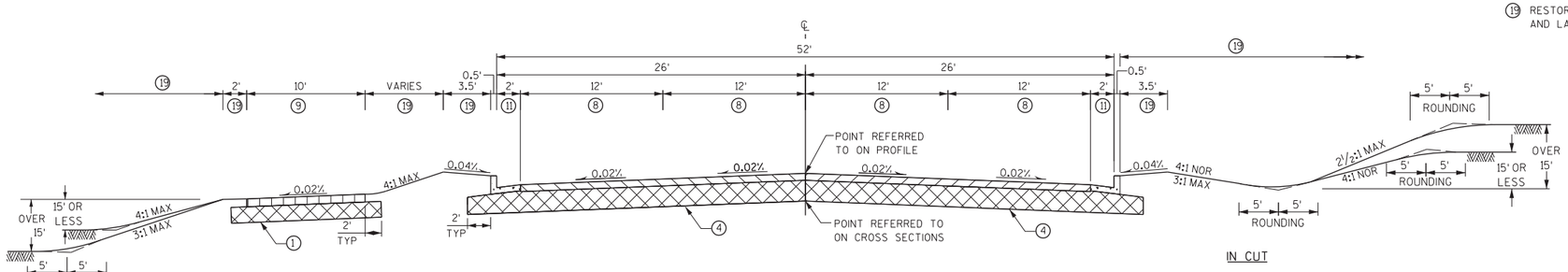
(4) 19" BASE AGGREGATE DENSE 1¼-INCH

(8) 6 1/2" HMA PAVEMENT E-10

(9) 3" ASPHALTIC SURFACE

(11) CONCRETE CURB AND GUTTER 30-INCH TYPE D

(19) RESTORATION (SEE EROSION CONTROL, PLAN DETAILS, AND LANDSCAPING PLANS FOR INFORMATION)



IN FILL

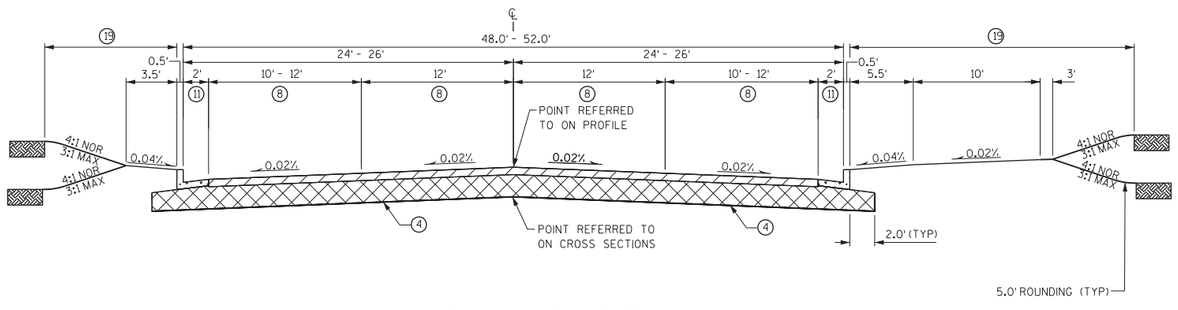
IN CUT

TYPICAL FINISHED SECTION

STH 54

STA 1099+00.00 TO STA 1104+50.00

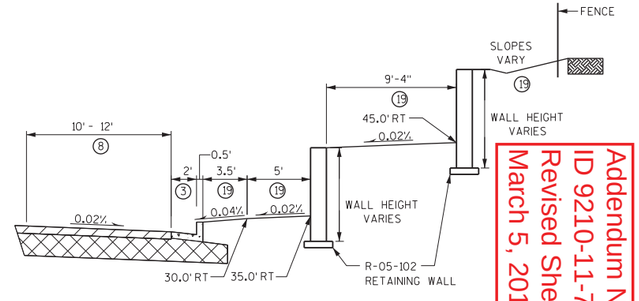
PAVEMENT THICKNESS (INCH)	LOWER LOWER (INCH)	NOM AGG SIZE (mm)	UPPER LOWER (INCH)	NOM AGG SIZE (mm)	UPPER (INCH)	NOM AGG SIZE (mm)
6.50	2.50	19.0	2.25	19.0	1.75	12.5



TYPICAL FINISHED SECTION

STH 54

STA 1104+50.00 TO STA 1112+97.91



TYPICAL RETAINING WALL SECTION

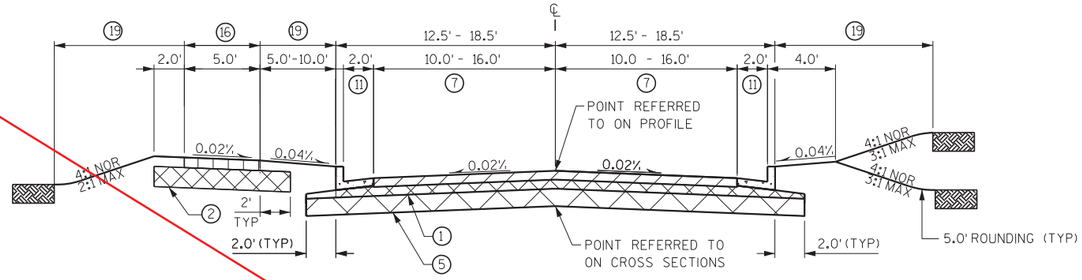
STA 1109+39.44 - STA 1113+00.82

Addendum No. 2
ID 9210-11-71
Revised Sheet 11
March 5, 2012

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	TYPICAL SECTIONS	SHEET 11A	E

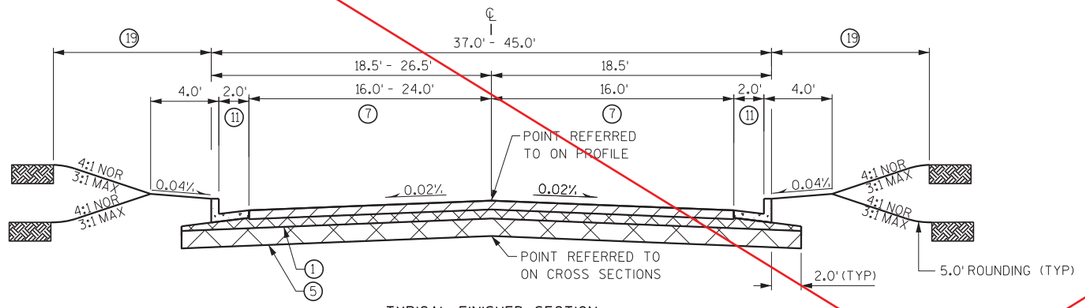
FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\020302_ts.dgn PLOT DATE : 2/20/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 200.0000 ' / in.

WISDOT/CADDS SHEET 42



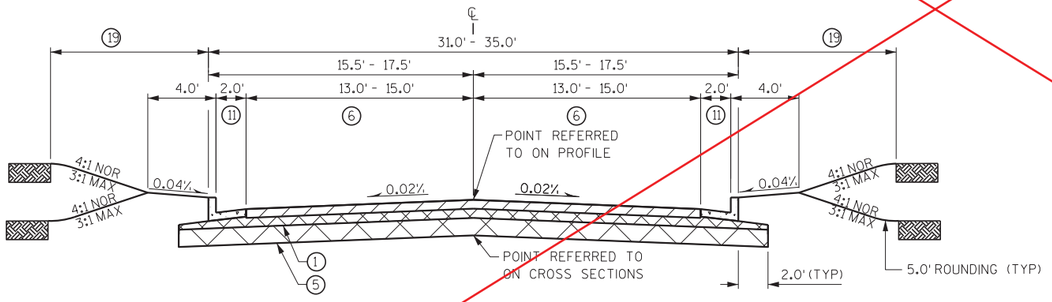
TYPICAL FINISHED SECTION

CTH U / WEST SERVICE ROAD
STA 16+50UW TO STA 22+18.22UW



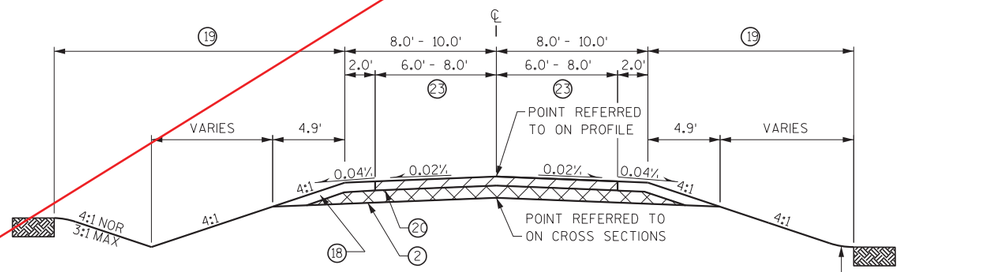
TYPICAL FINISHED SECTION

CTH U / EAST SERVICE ROAD
STA 20+00.00UE TO STA 23+75.00UE



TYPICAL FINISHED SECTION

ELM STREET
STA 30+00.00ES TO STA 32+39.32ES



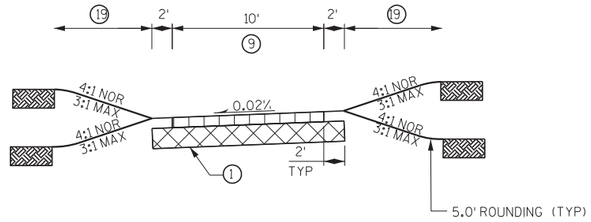
TYPICAL FINISHED SECTION

ARTLEY STREET (EMERGENCY ACCESS ROAD)
STA 40+00.00AS TO STA 43+33.49AS

PAVEMENT THICKNESS (INCH)	LOWER LOWER (INCH)	NOM AGG SIZE (mm)	UPPER LOWER (INCH)	NOM AGG SIZE (mm)	UPPER (INCH)	NOM AGG SIZE (mm)
3.00	---	---	---	---	3.00	12.5
4.00	2.25	19.0	---	---	1.75	12.5
5.00	3.00	19.0	---	---	2.00	12.5

KEY

1. 6" BASE AGGREGATE DENSE 1¼-INCH
2. 8" BASE AGGREGATE DENSE 1¼-INCH
5. 12" BREAKER RUN
6. 4" HMA PAVEMENT TYPE E-1
7. 5" HMA PAVEMENT TYPE E-1
9. 3" ASPHALTIC SURFACE
11. CONCRETE CURB AND GUTTER 30-INCH TYPE D
16. CONCRETE SIDEWALK 4-INCH
18. 6" TOPSOIL (TYP)
19. SEEDING MIXTURE NO. 30, SEEDING TEMPORARY AND FERTILIZER TYPE B
20. GEOTEXTILE FABRIC TYPE DF SCHEDULE B
23. 6" CELLULAR ARTICULATED CONCRETE BLOCK MATTRESSES



TYPICAL FINISHED SECTION

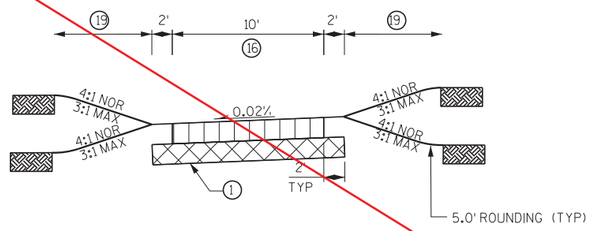
RIVER WEST SHARED PATH
STA 50+00.00RU TO STA 53+42.92RU
STA 54+26.43RU TO STA 57+99.21RU

RIVER EAST SHARED PATH
STA 70+00.00RE TO STA 71+65.33RE
STA 72+46.28RE TO STA 75+93.03RE

EAST SHARED PATH
STA 80+00.00EP TO STA 83+84.06EP

NORTH SHARED PATH
STA 112+33.39NP TO 122+86.96NP

SOUTH SHARED PATH
STA 196+79.22SP TO STA 214+40.00SP

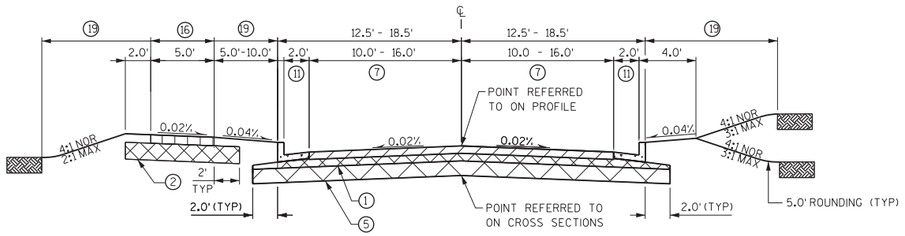


TYPICAL FINISHED SECTION

RIVER WEST SHARED PATH
STA 53+42.92RU TO STA 54+26.43RU

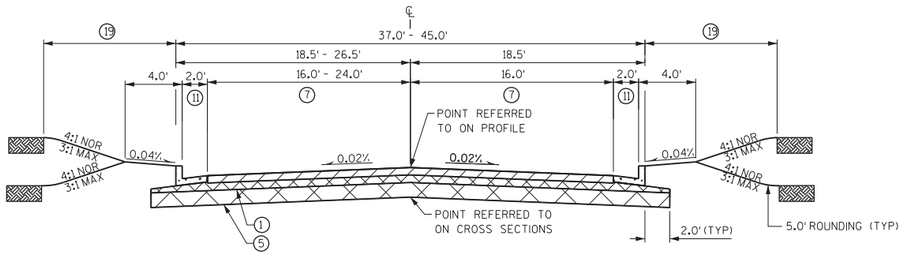
RIVER EAST SHARED PATH
STA 71+65.33RE TO STA 72+46.28RE

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	TYPICAL SECTIONS	SHEET 12 E



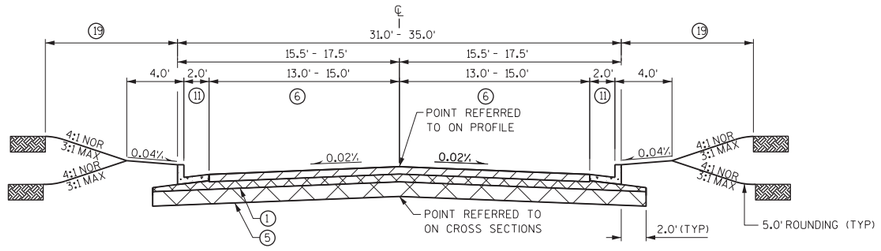
TYPICAL FINISHED SECTION

CTH U / WEST SERVICE ROAD
STA 16+50UW TO STA 22+18.22UW



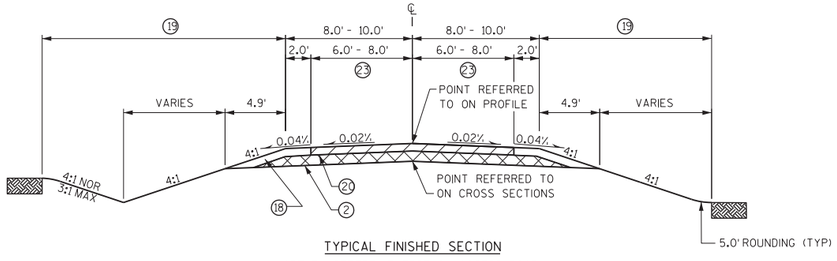
TYPICAL FINISHED SECTION

CTH U / EAST SERVICE ROAD
STA 20+00.00UE TO STA 23+75.00UE



TYPICAL FINISHED SECTION

ELM STREET
STA 30+00.00ES TO STA 32+39.32ES



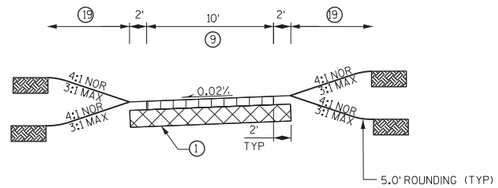
TYPICAL FINISHED SECTION

ARTLEY STREET (EMERGENCY ACCESS ROAD)
STA 40+00.00AS TO STA 43+33.49AS

PAVEMENT THICKNESS (INCH)	LOWER LOWER (INCH)	NOM AGG SIZE (mm)	UPPER LOWER (INCH)	NOM AGG SIZE (mm)	UPPER (INCH)	NOM AGG SIZE (mm)
3.00	---	---	---	---	3.00	12.5
4.00	2.25	19.0	---	---	1.75	12.5
5.00	3.00	19.0	---	---	2.00	12.5

KEY

(1) 6" BASE AGGREGATE DENSE 1¼-INCH
(2) 8" BASE AGGREGATE DENSE 1¼-INCH
(5) 12" BREAKER RUN
(6) 4" HMA PAVEMENT TYPE E-1
(7) 5" HMA PAVEMENT TYPE E-1
(9) 3" ASPHALTIC SURFACE
(11) CONCRETE CURB AND GUTTER 30-INCH TYPE D
(16) CONCRETE SIDEWALK 4-INCH
(19) RESTORATION (SEE EROSION CONTROL, PLAN DETAILS, AND LANDSCAPING PLANS FOR INFORMATION)
(20) GEOTEXTILE FABRIC TYPE DF SCHEDULE B
(23) 6" CELLULAR ARTICULATED CONCRETE BLOCK MATTRESSES



TYPICAL FINISHED SECTION

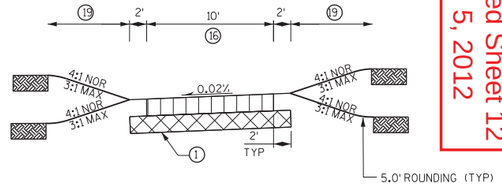
RIVER WEST SHARED PATH
STA 50+00.00RU TO STA 53+42.92RU
STA 54+26.43RU TO STA 57+99.21RU

RIVER EAST SHARED PATH
STA 70+00.00RE TO STA 71+65.33RE
STA 72+46.28RE TO STA 75+93.03RE

EAST SHARED PATH
STA 80+00.00EP TO STA 83+84.06EP

NORTH SHARED PATH
STA 112+33.39NP TO 122+86.96NP

SOUTH SHARED PATH
STA 196+79.22SP TO STA 214+40.00SP



TYPICAL FINISHED SECTION

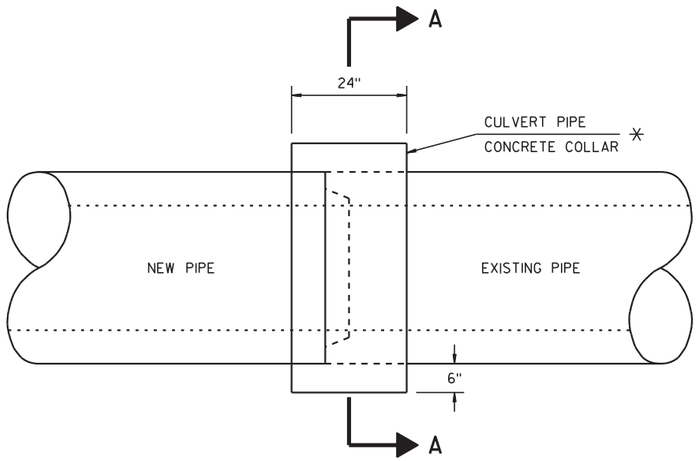
RIVER WEST SHARED PATH
STA 53+42.92RU TO STA 54+26.43RU

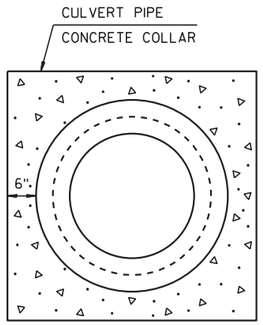
RIVER EAST SHARED PATH
STA 71+65.33RE TO STA 72+46.28RE

Addendum No. 2
ID 9210-11-71
Revised Sheet 12
March 5, 2012

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	TYPICAL SECTIONS	SHEET 12A	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\020303_ts.dgn PLOT DATE : 2/20/2012 PLOT BY : 11721gs PLOT NAME : PLOT SCALE : 200.0000 ' / in.
WISDOT/CADDS SHEET 42





SECTION A-A

* SHES CONCRETE REQUIRED FOR CONCRETE COLLARS USED AS PERMANENT CONNECTION OF CULVERT PIPES UNDER PAVEMENT.

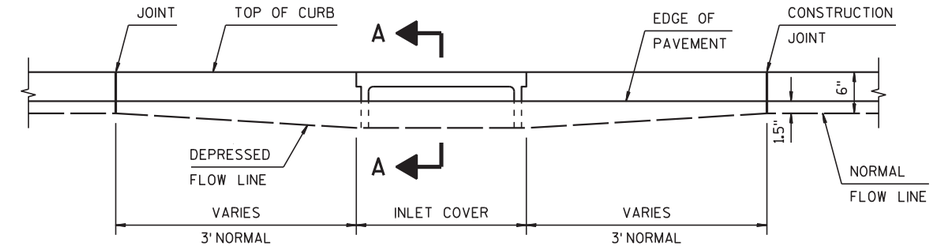
CONCRETE COLLAR DETAIL

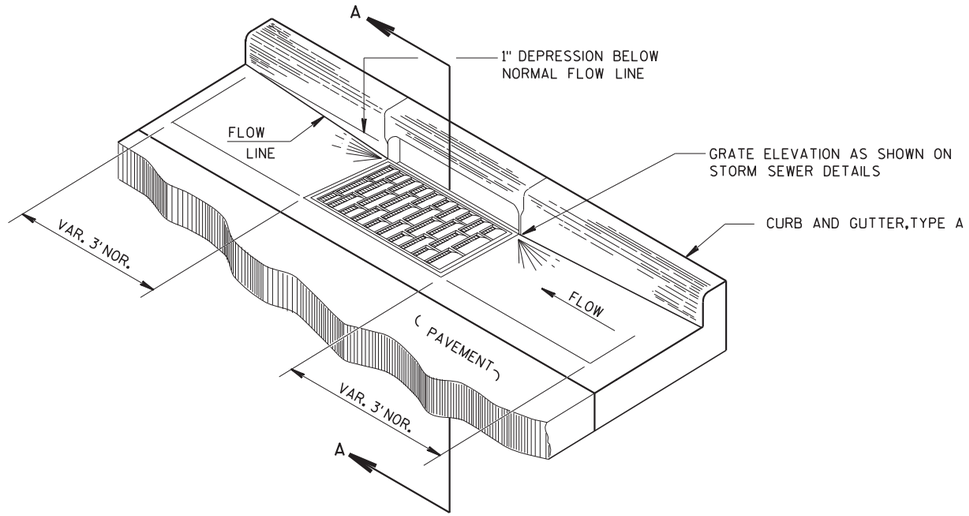
(SEE MISCELLANEOUS QUANTITIES FOR LOCATIONS)

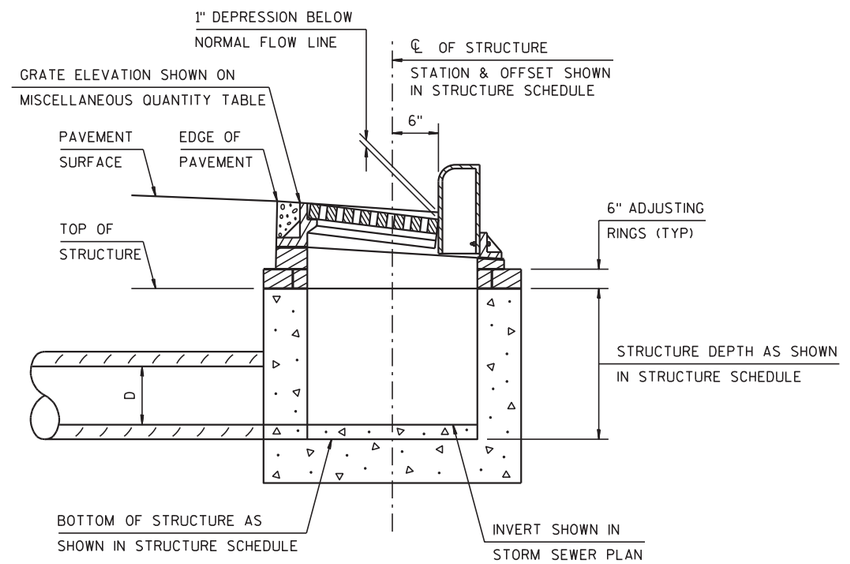
RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 36 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 25 ACRES

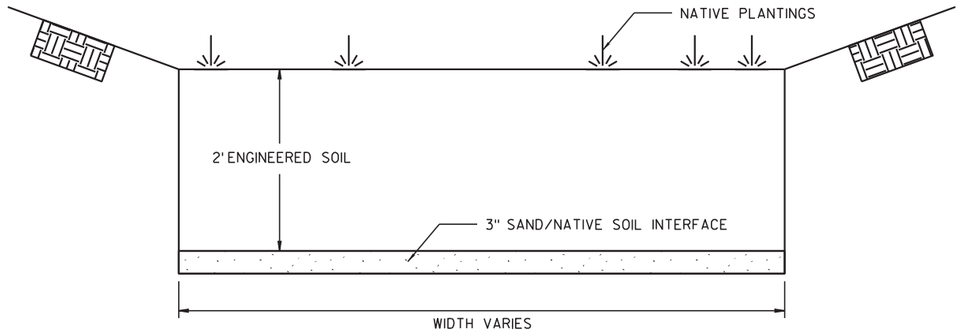






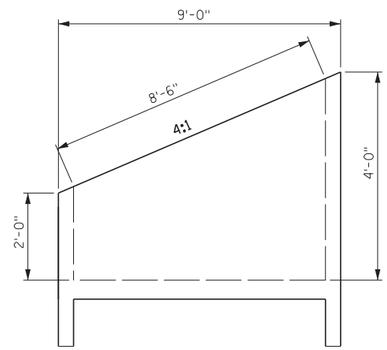
SECTION A-A

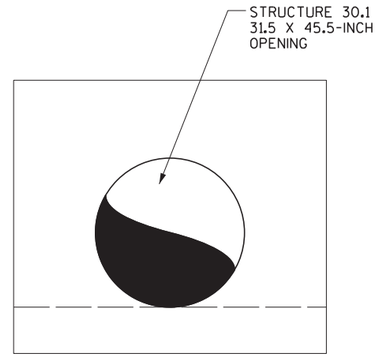
DETAIL OF CURB AND GUTTER AT INLETS



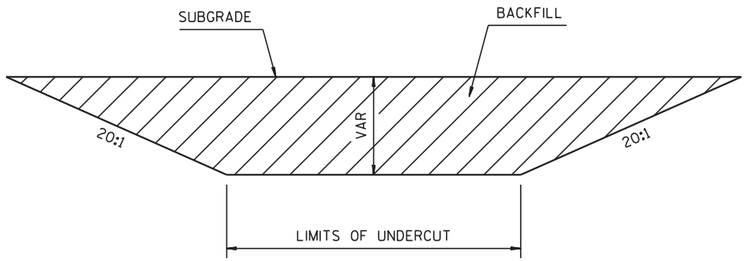
ENGINEERED SOIL DETAIL

PLACE IN NORTH DETENTION POND
(SEE EROSION CONTROL PLAN SHEETS)

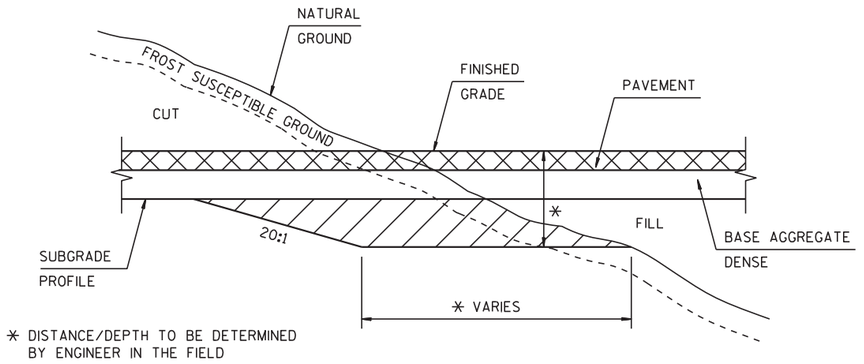




MODIFIED TYPE 10 MS STRUCTURES 27.1 & 30.1



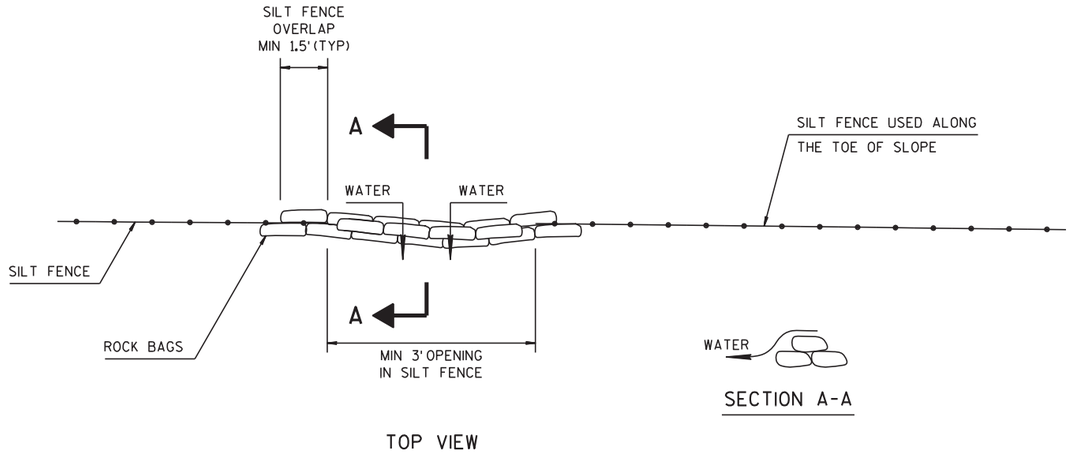
LONGITUDINAL SECTION FOR UNDERCUT AREAS (EBS) AND MARSH EXCAVATION



PROFILE VIEW

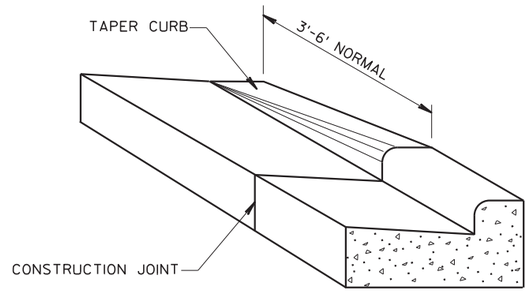
EXCAVATION BELOW SUBGRADE (EBS)

EXACT LOCATION OF EXCAVATION BELOW SUBGRADE (EBS) SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
EBS AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER.

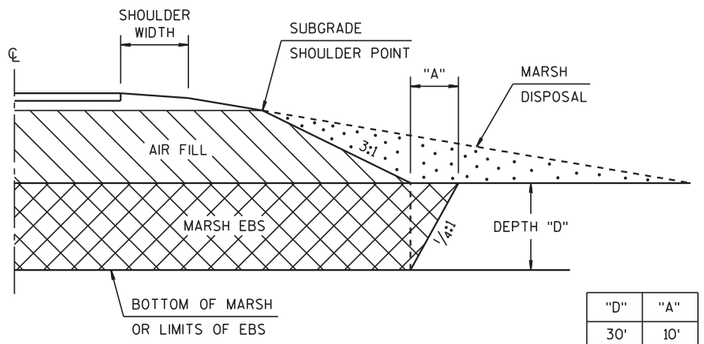


ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL

PAID AS ROCK BAGS



DETAIL OF CURB & GUTTER TERMINI

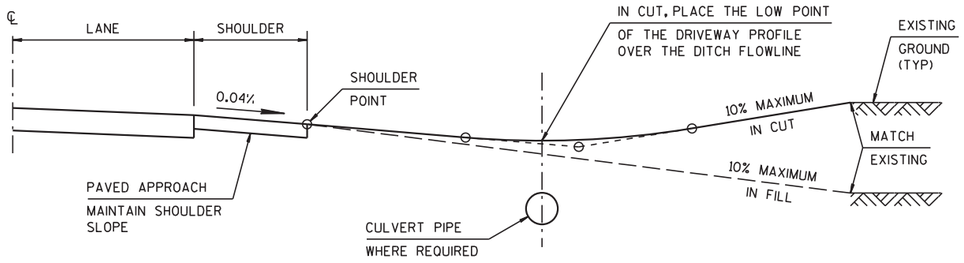


"D" = DEPTH OF MARSH EXCAVATION
"A" = DISTANCE OFFSET OUTSIDE SLOPE INTERCEPT

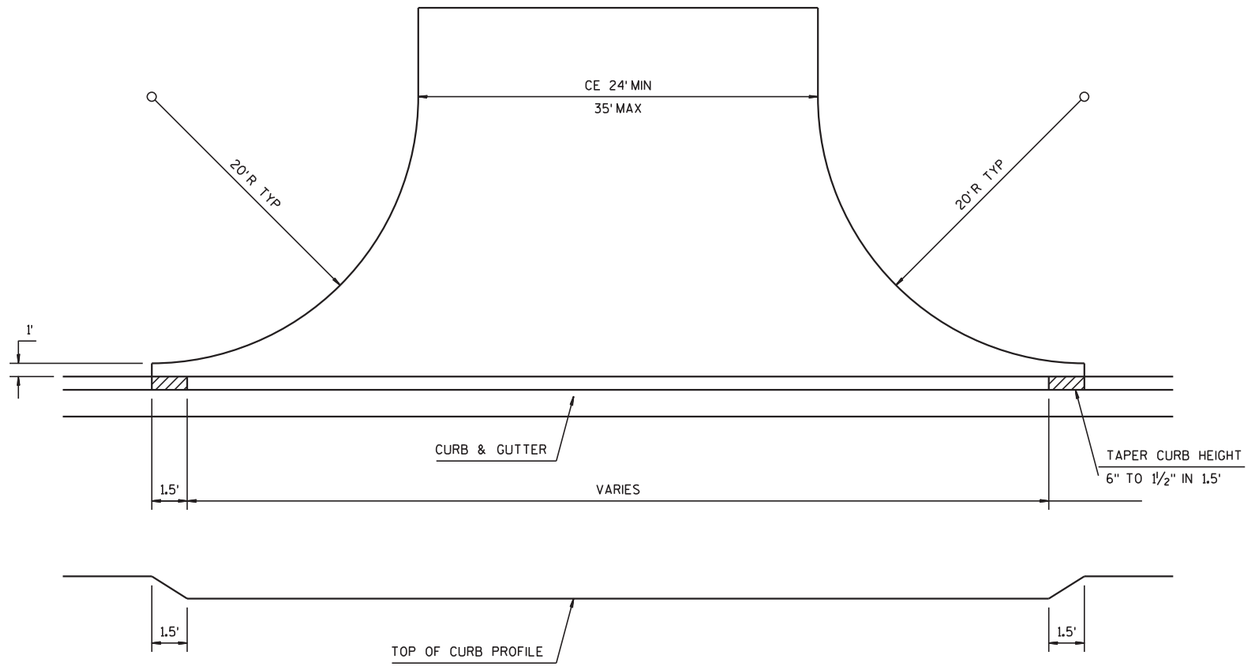
NOTE: LIMIT OF MARSH EXCAVATION SHOULD EXTEND TO SLOPE INTERCEPT AS A MINIMUM. FOR MARSH DEPTHS GREATER THAN 10-FT SEE TABLE FOR DISTANCE OFFSET.

"D"	"A"
30'	10'
26'	8'
22'	6'
18'	4'
14'	2'
10'	0'
<10'	0'

TYPICAL MARSH EXCAVATION



TYPICAL DRIVEWAY PROFILES



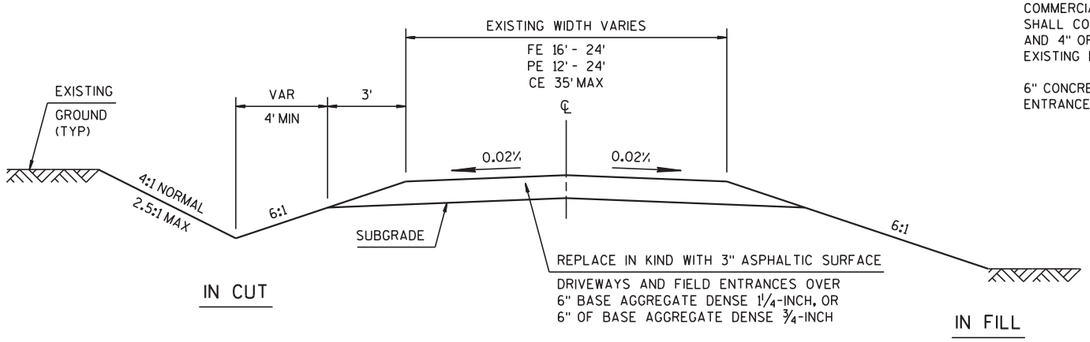
COMMERCIAL ENTRANCES

NOTE: NON-PAVED DRIVEWAYS SHALL CONSIST OF 6" OF BASE AGGREGATE DENSE.

RESIDENTIAL ENTRANCE ASPHALTIC DRIVEWAYS SHALL CONSIST OF 6" BASE AGGREGATE DENSE AND 3" OF ASPHALTIC PAVEMENT OR MATCH EXISTING ENTRANCE THICKNESSES.

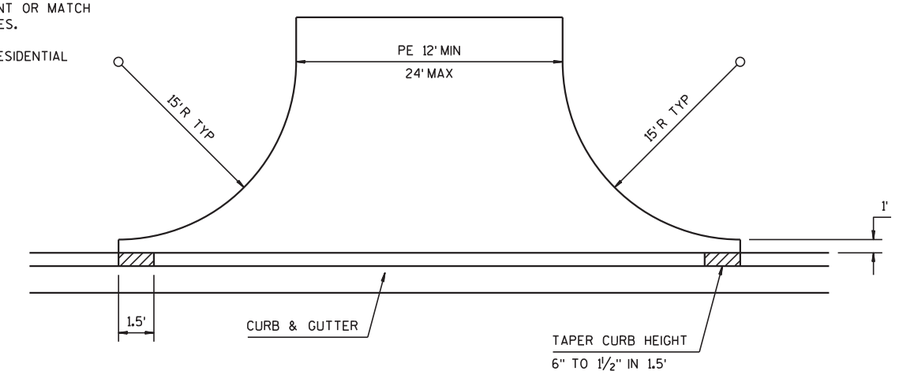
COMMERCIAL ENTRANCE ASPHALTIC DRIVEWAYS SHALL CONSIST OF 12" BASE AGGREGATE DENSE AND 4" OF ASPHALTIC PAVEMENT OR MATCH EXISTING ENTRANCE THICKNESSES.

6" CONCRETE DRIVEWAY FOR RESIDENTIAL ENTRANCES.



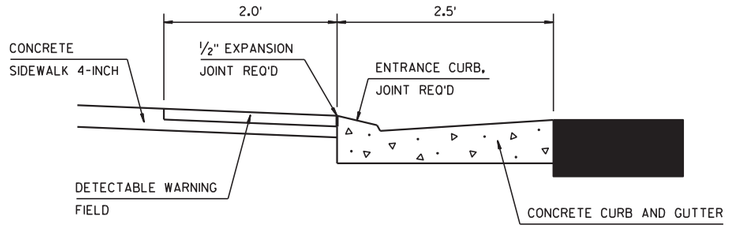
TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE

(1) A LARGER PAVING RADIUS FOR PAVING IN HIGHER SPEED ZONE (> 40 MPH) CAN BE USED IF WARRANTED.

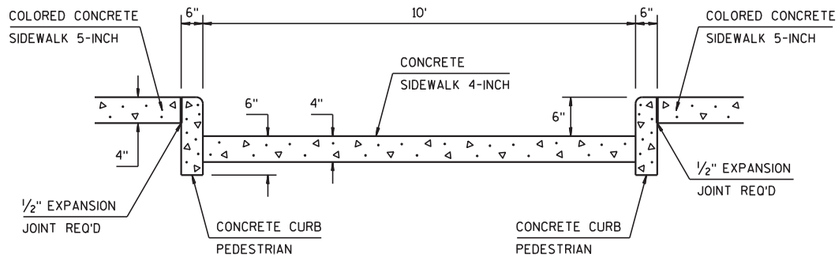


PRIVATE ENTRANCES

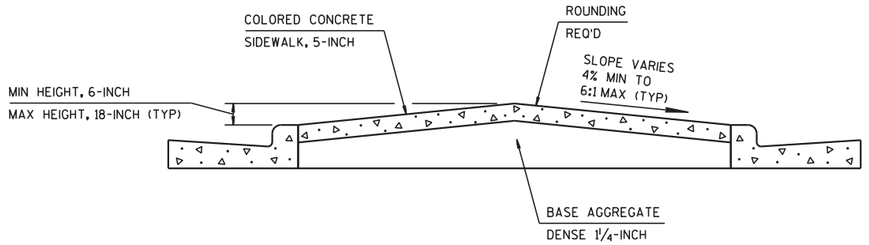
RURAL DRIVEWAYS WITH CURB & GUTTER



SECTION A-A



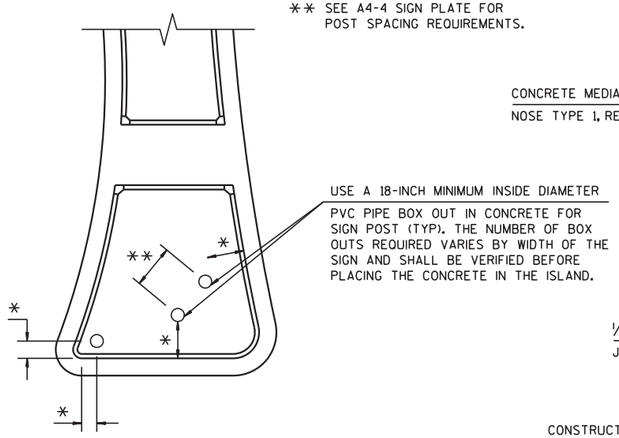
SECTION B-B



SECTION C-C

* DISTANCE TO BE LAID OUT IN THE FIELD BASED ON SIGN SIZE. TWO FOOT MINIMUM CLEARANCE BETWEEN THE EDGE OF SIGN AND THE FACE OF CURB.

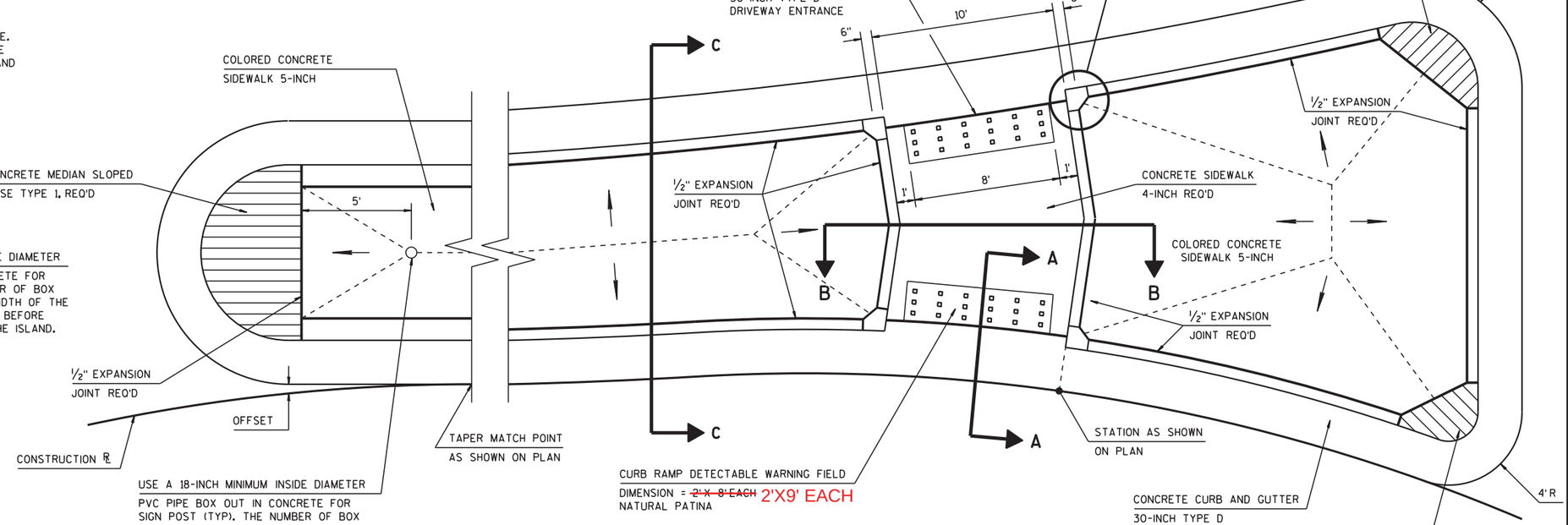
** SEE A4-4 SIGN PLATE FOR POST SPACING REQUIREMENTS.



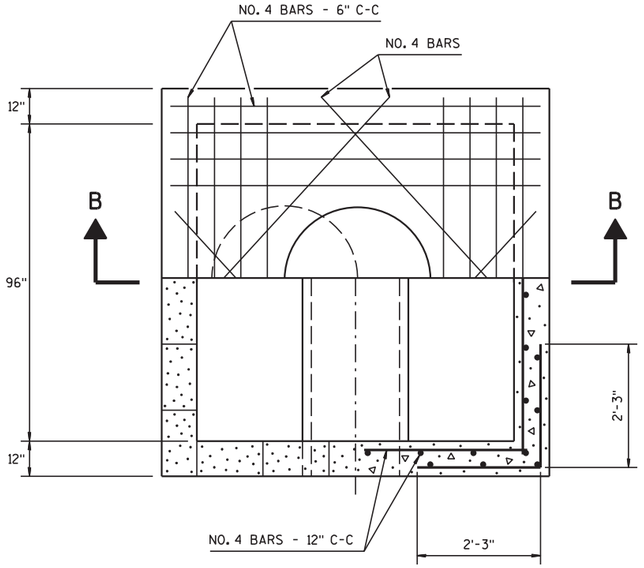
USE A 18-INCH MINIMUM INSIDE DIAMETER PVC PIPE BOX OUT IN CONCRETE FOR SIGN POST (TYP). THE NUMBER OF BOX OUTS REQUIRED VARIES BY WIDTH OF THE SIGN AND SHALL BE VERIFIED BEFORE PLACING THE CONCRETE IN THE ISLAND.

ISLAND SIGN LOCATION DETAIL (TYP)

NOTIFY THE REGIONAL TRAFFIC UNIT AT 920-492-5653 A MINIMUM OF TWO WEEK PRIOR TO THE NEED FOR SIGN PLACEMENT TO ALLOW FOR STAKING OF ANY PERMANENT SIGNING REQUIRED ON THE PROJECT.



SPLITTER ISLAND DETAIL



HALF SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 1-C", "CATCH BASINS 1-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA ON THE BASE.

STEPS MEETING THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES; AND BE CAPABLE OF SUPPORTING A CONCENTRATED LOAD OF 300 LBS. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTION DIMENSION OF 1 INCH.

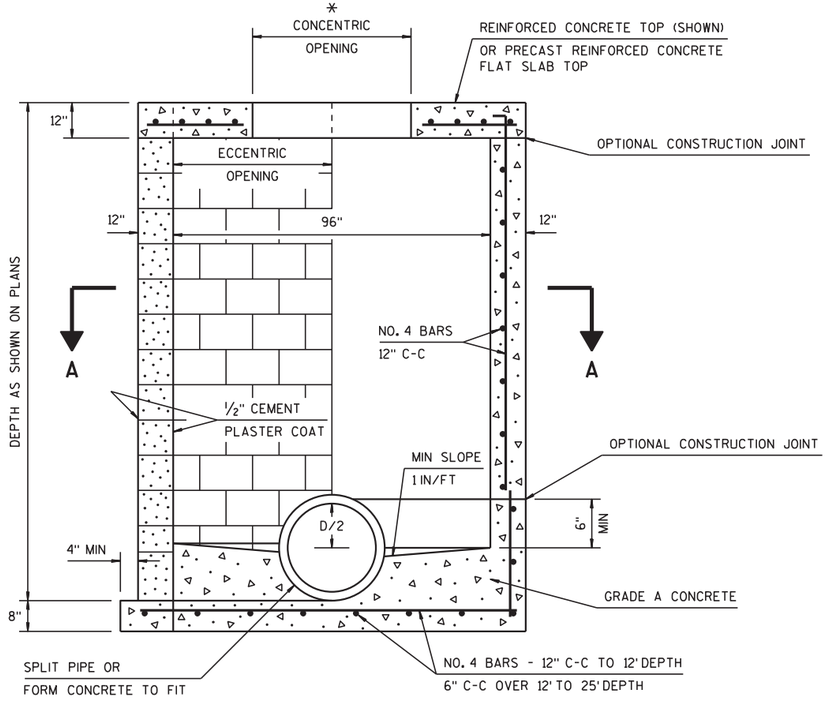
SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 0.75 INCH. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT. STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

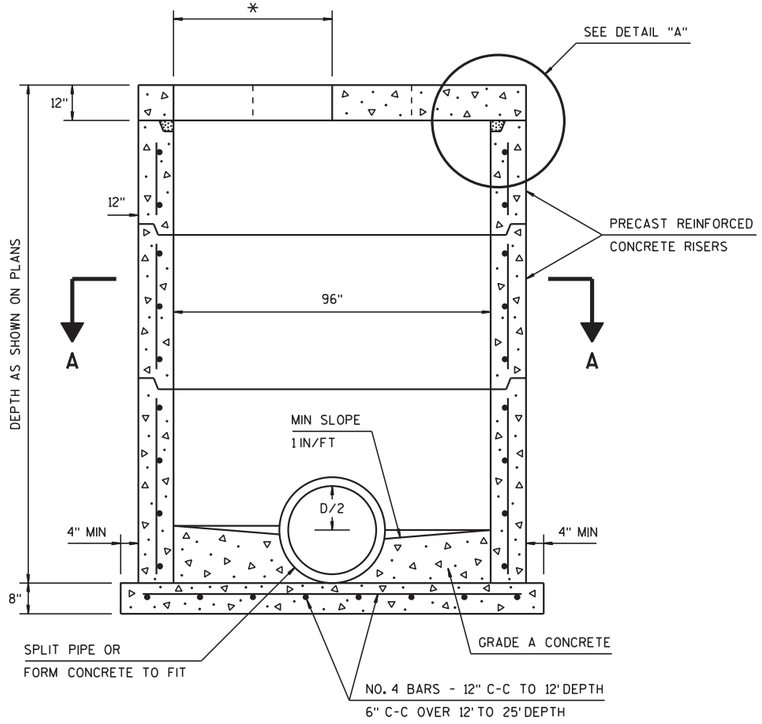
* USE 2'-0" DIAMETER OPENING WITH TYPE "J" COVERS, 3'-0" DIAMETER WITH TYPE "M" COVERS, OR 2'BY 3' OPENING WITH TYPE "H", HM-6J, HM-6J-S.



SECTION B-B

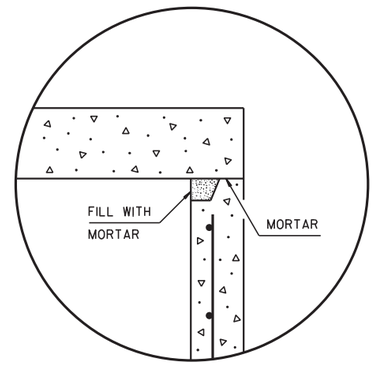
CONCRETE BLOCK

REINFORCED CONCRETE



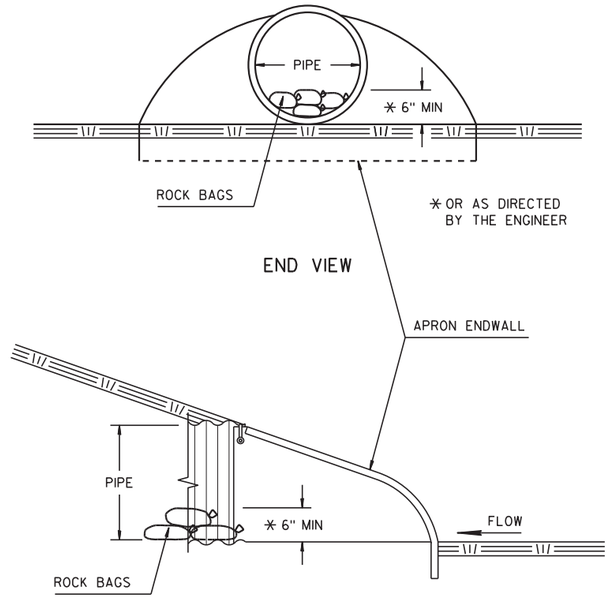
PRECAST REINFORCED CONCRETE

MANHOLE 96-INCH DIAMETER

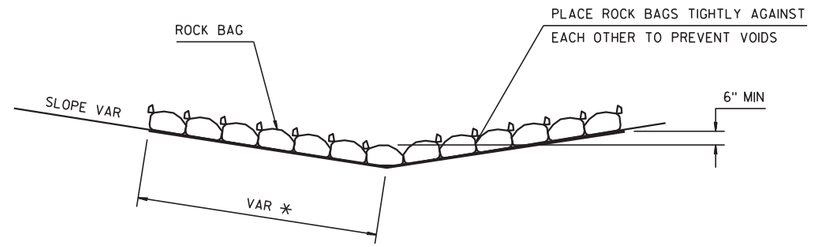


DETAIL "A"

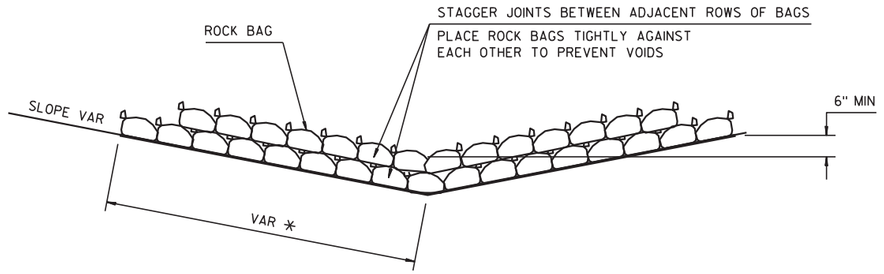
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CONSTRUCTION DETAILS	SHEET 18	E



CULVERT PIPE CHECKS



SIDE VIEW (SINGLE LAYER)



* LENGTH AND NUMBER OF BAGS MAY VARY DEPENDING ON DESIRED DEPTH OF WATER POOL

SIDE VIEW (MULTIPLE LAYER)

ROCK BAGS DITCH CHECK

PAID AS ROCK BAGS

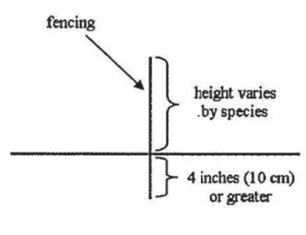


Figure 1. Side view of fencing

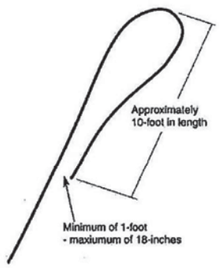


Figure 2. Overhead view of fence turn-around

TURTLE PROTECTION FENCE TURNAROUND DETAIL

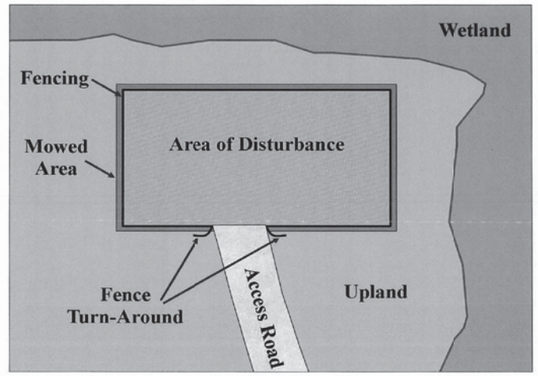
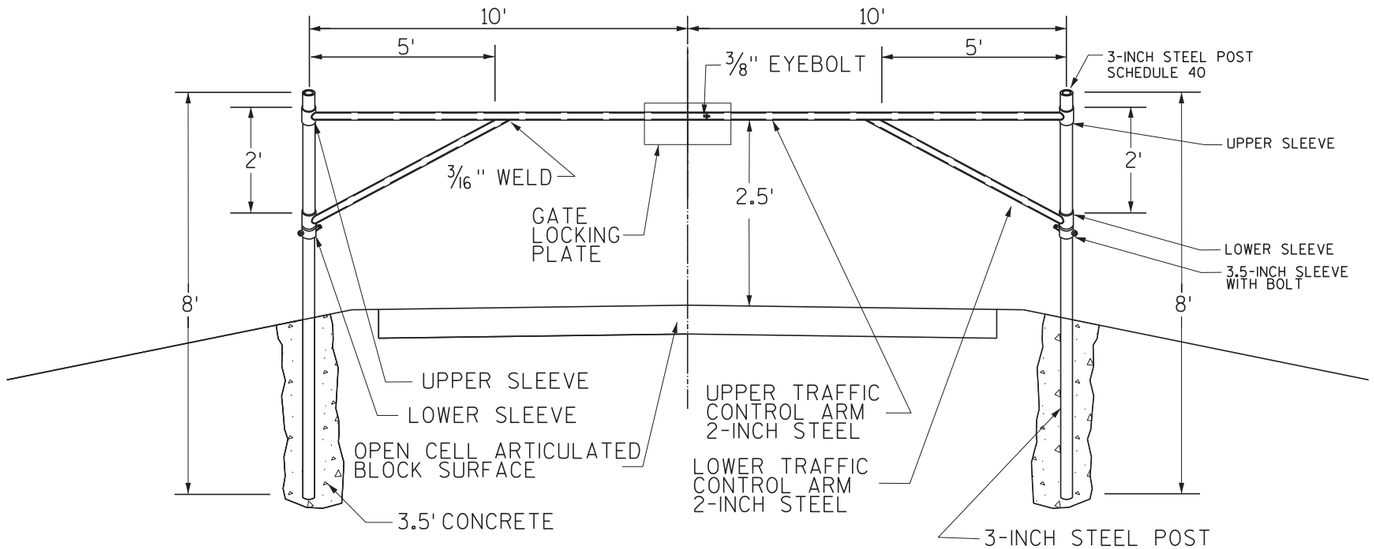
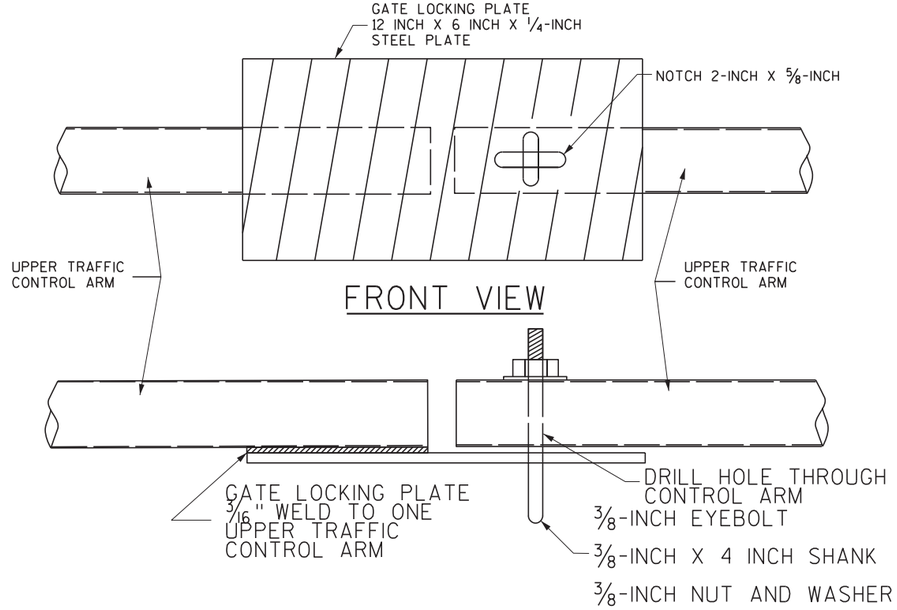


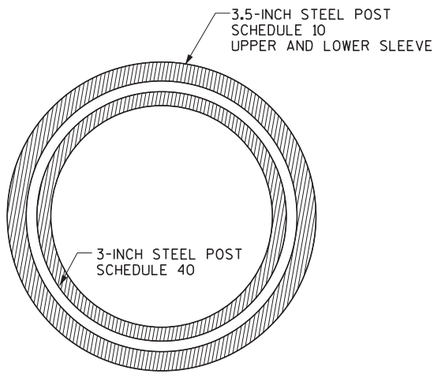
Figure 3. Site layout

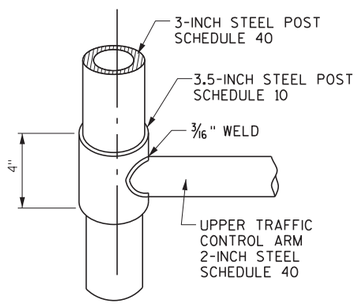
TURTLE PROTECTION FENCE TURNAROUND LOCATION MAP



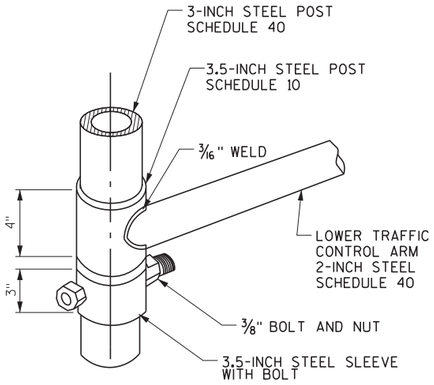
ARTLEY STREET SWING GATE





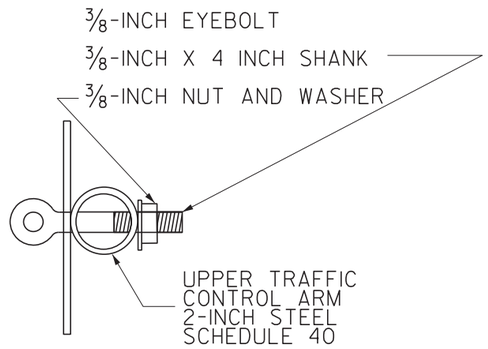


UPPER SLEEVE



LOWER SLEEVE

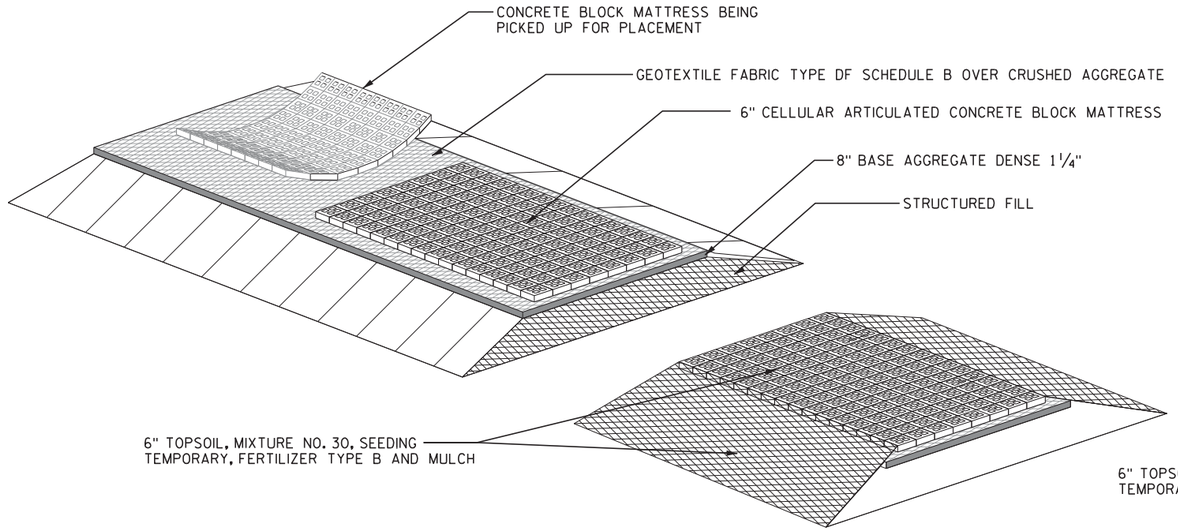
TOP VIEW



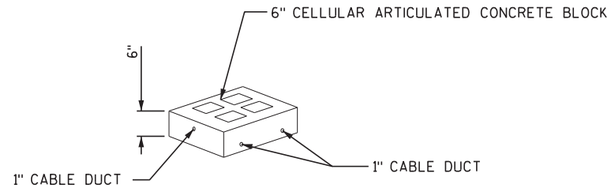
SIDE VIEW

ARTLEY STREET SWING GATE

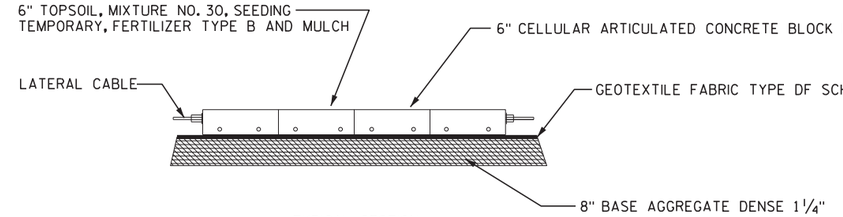
GATE LOCKING PLATE DETAIL
TO UNLOCK GATE-TURN EYEBOLT SO THAT EYEBOLT
FITS THROUGH THE SLOT ON THE LOCKING PLATE



ARTLEY STREET - FIRE TRUCK ACCESS

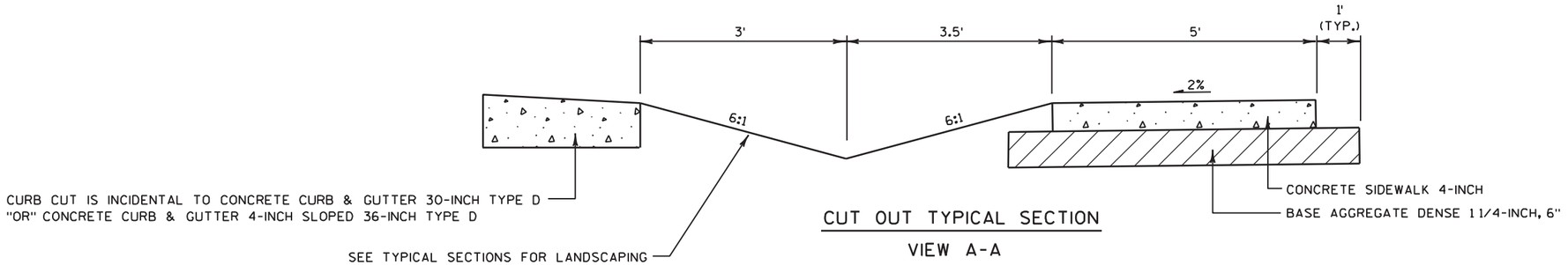


TYPICAL SECTION



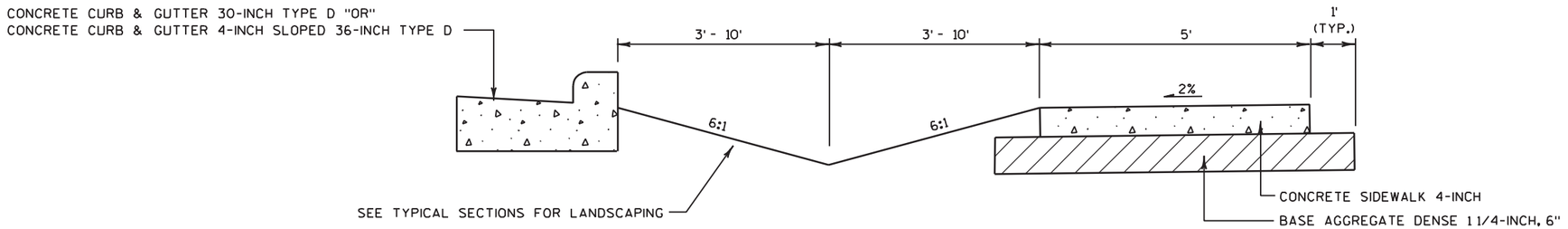
TYPICAL SECTION

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CONSTRUCTION DETAILS	SHEET 21	E



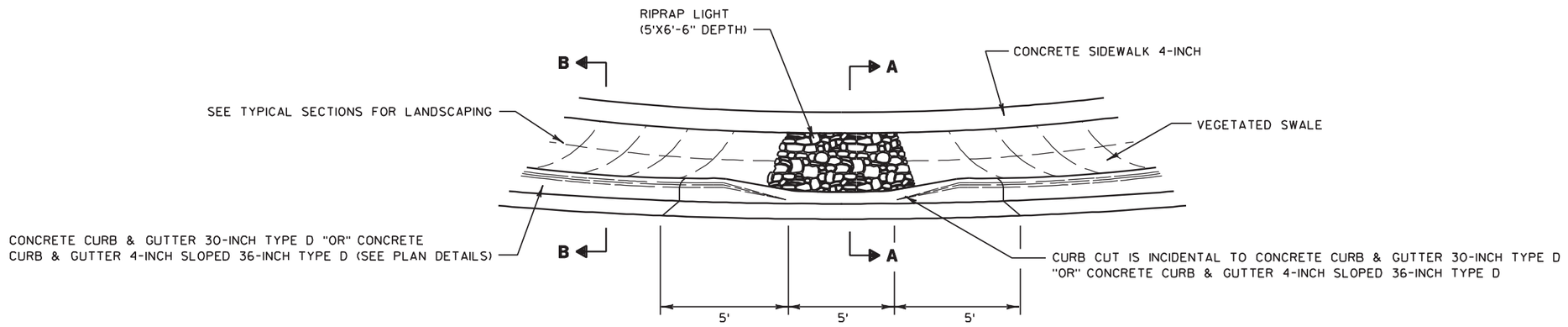
CUT OUT TYPICAL SECTION

VIEW A-A



SWALE TYPICAL SECTION

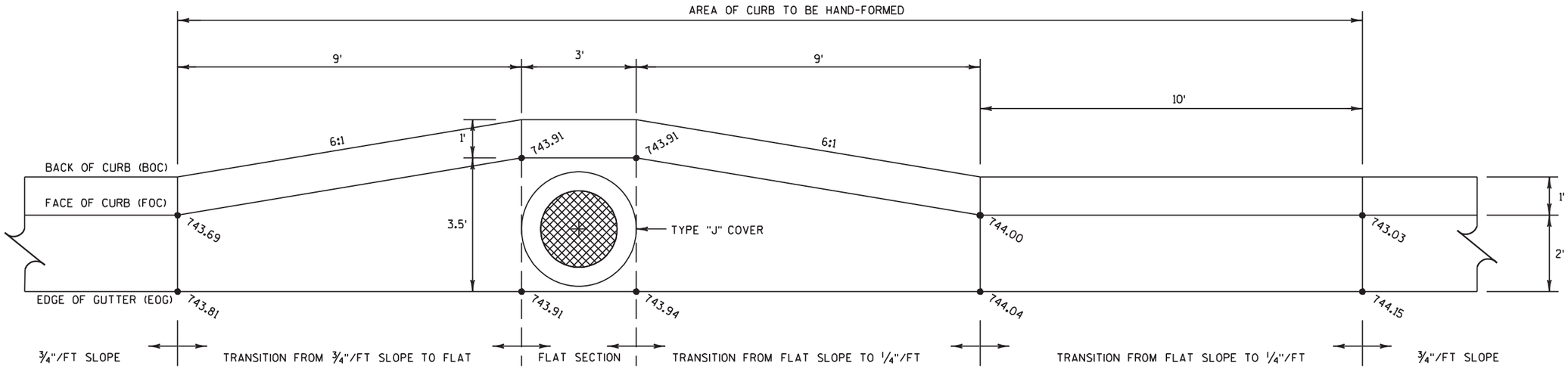
VIEW B-B



TYPICAL SECTION

CURB CUT OUT & VEGETATED SWALE DETAIL

NO SCALE



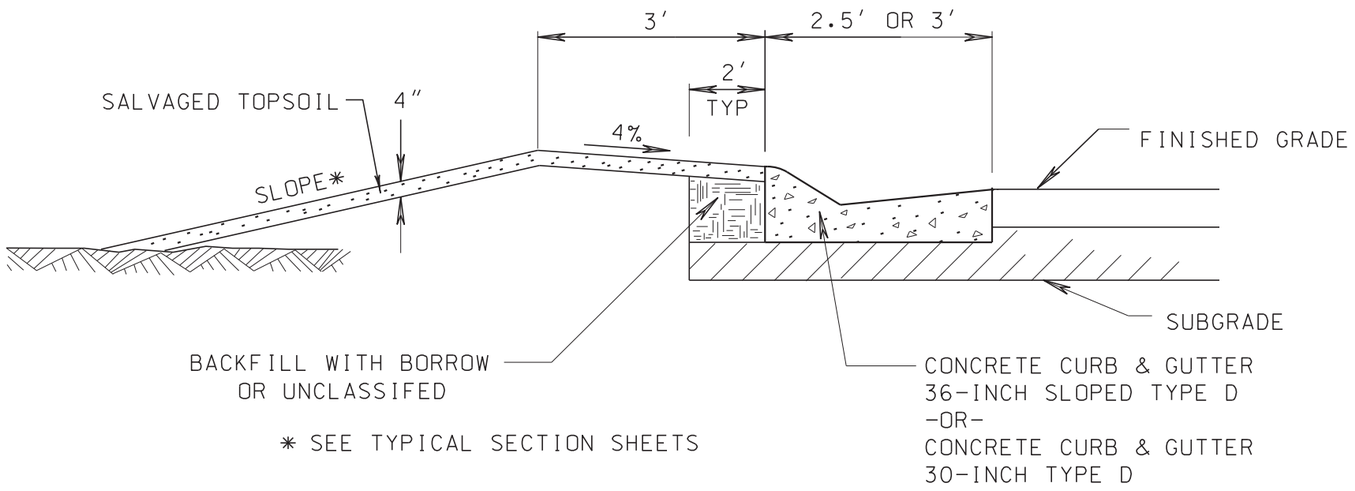
+ = CENTER OF STRUCTURE

STORM SEWER MANHOLE TRANSITION DETAIL AT STA 891+22.3 36.1' RT

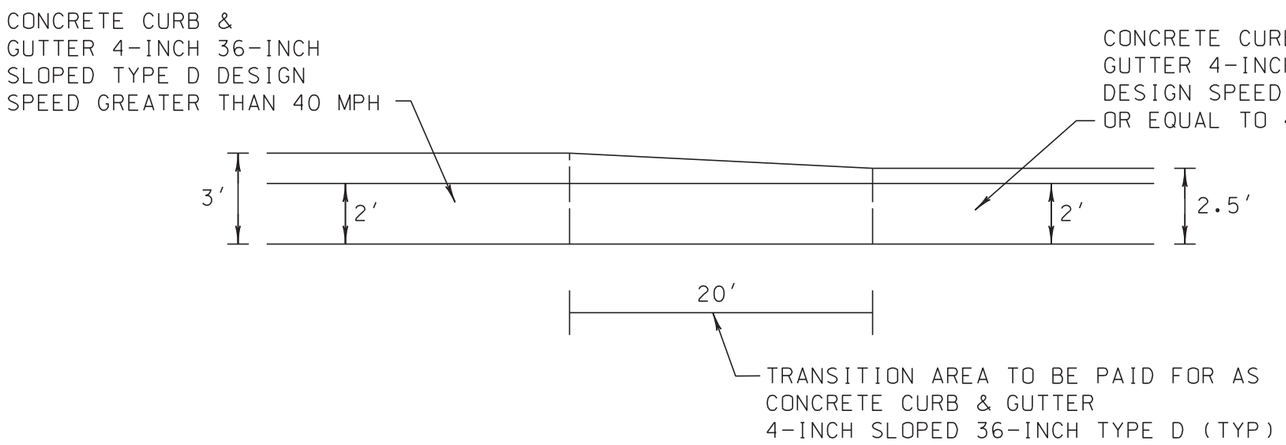
NOTE: WIDENING IS INCIDENTAL TO CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D

PLAN VIEW

2

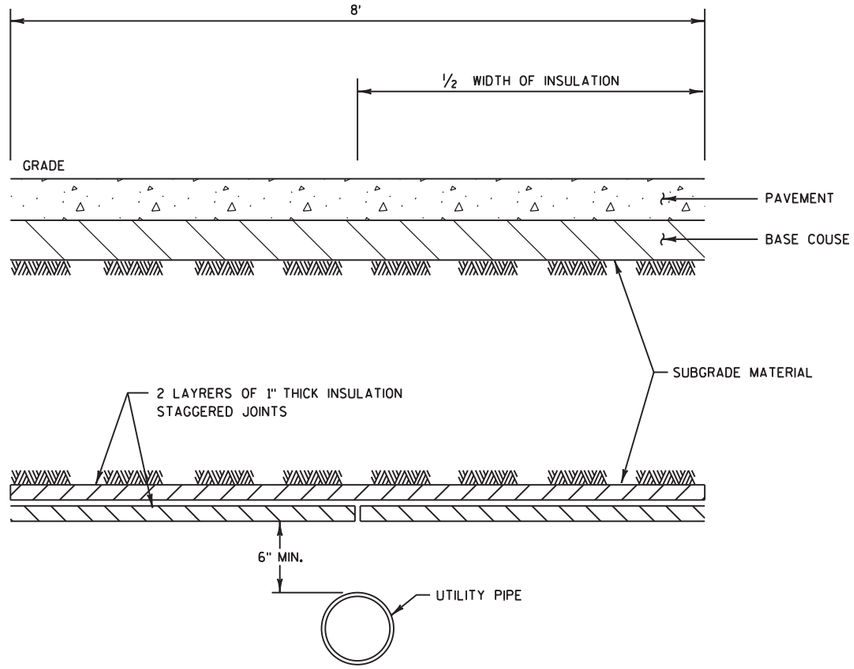


BERM DETAIL BEHIND CURB & GUTTER



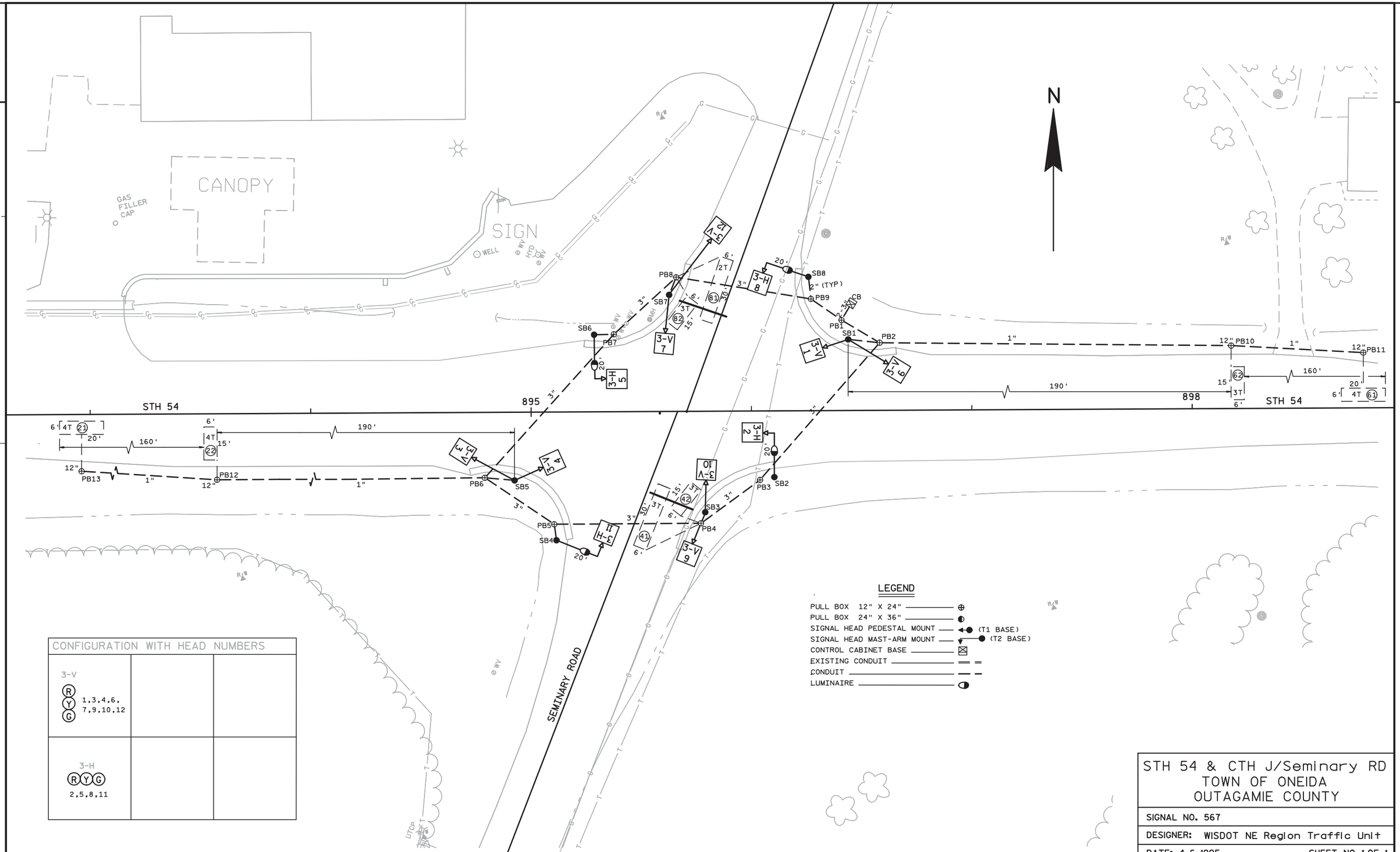
CURB TRANSITION DETAIL

2



TRENCH INSULATION DETAIL

NO SCALE



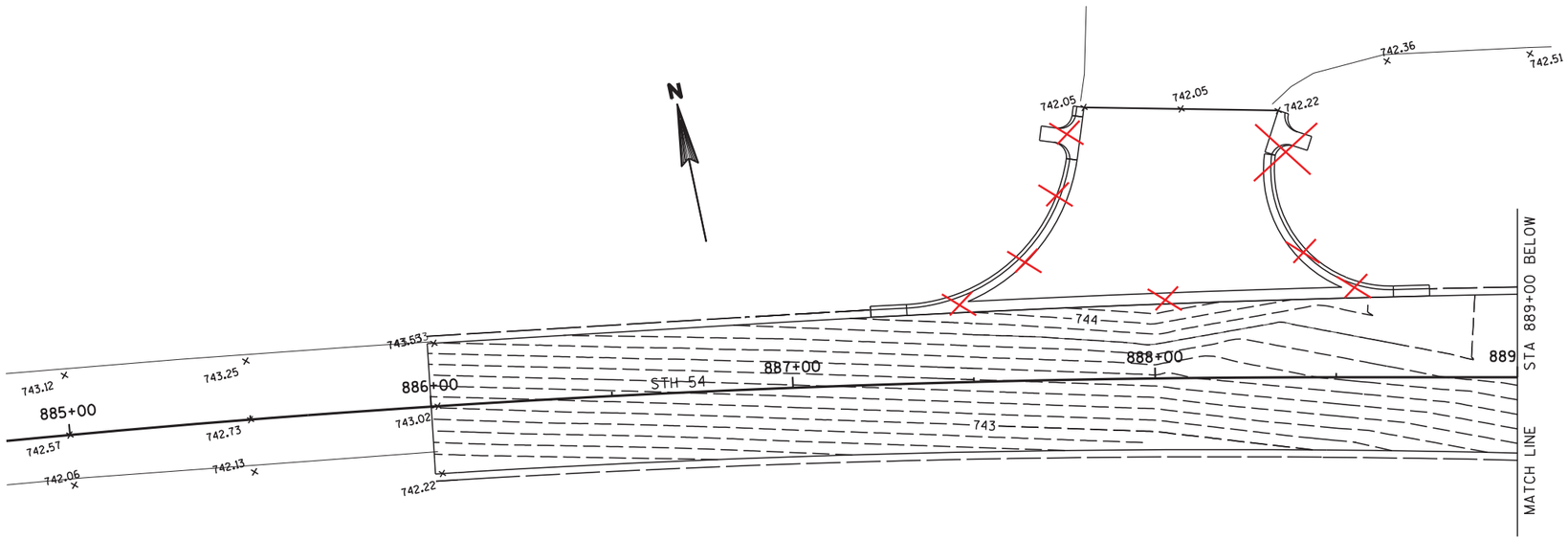
STH 54 & CTH J/Seminary RD
TOWN OF ONEIDA
OUTAGAMIE COUNTY

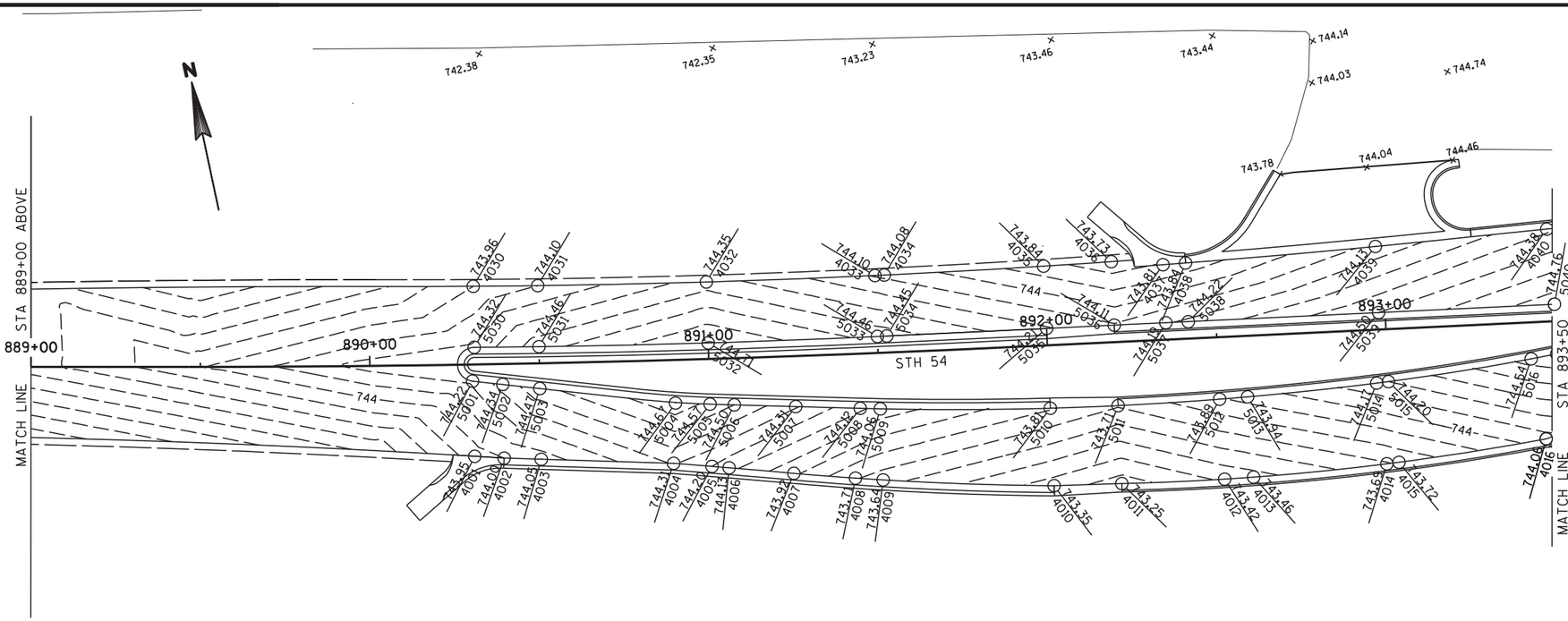
SIGNAL NO. 567

DESIGNER: WISDOT NE Region Traffic Unit

DATE: 4-6-1995 SHEET NO. 1 OF 1

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	CONSTRUCTION DETAIL - SALVAGE TRAFFIC SIGNAL	SHEET 26	E





WEST APPROACH DETAIL GRADES

POINT #	Y	X	ELEV	STATION-OFFSET		
4001	562436.73	52609.03	743.95	890+30.51	OS	27.07' R
4002	562434.08	52617.30	744.00	890+39.12	OS	27.77' R
4003	562431.07	52627.84	744.05	890+50.00	OS	28.32' R
4004	562420.35	52665.40	744.31	890+88.78	OS	30.47' R
4005	562416.71	52676.16	744.20	891+00.00	OS	31.70' R
4006	562415.07	52680.96	744.13	891+05.01	OS	32.27' R
4007	562408.81	52699.09	743.92	891+23.93	OS	34.53' R
4008	562402.97	52716.36	743.71	891+41.91	OS	36.64' R
4009	562400.46	52724.16	743.64	891+50.00	OS	37.49' R
4010	562386.47	52772.62	743.35	892+00.00	OS	41.46' R
4011	562382.17	52792.16	743.25	892+20.00	OS	41.79' R
4012	562376.02	52821.89	743.42	892+50.36	OS	41.92' R
4013	562374.50	52830.32	743.46	892+58.92	OS	41.74' R
4014	562368.68	52869.40	743.69	892+98.39	OS	39.69' R
4015	562368.25	52872.97	743.72	893+01.97	OS	39.40' R
4030	562485.47	52620.86	744.00	890+30.88	OS	23.08' L
4031	562481.00	52639.36	744.10	890+50.00	OS	22.92' L
4032	562469.86	52687.87	744.35	891+00.00	OS	22.73' L
4033	562459.54	52736.56	744.10	891+50.00	OS	22.88' L
4034	562458.99	52739.26	744.08	891+52.77	OS	22.89' L
4035	562450.01	52785.48	743.84	892+00.00	OS	23.37' L
4036	562446.42	52805.16	743.73	892+20.00	OS	23.76' L
4037	562441.81	52819.76	743.81	892+35.22	OS	22.14' L
4038	562440.68	52826.32	743.84	892+41.88	OS	22.33' L
4039	562431.68	52881.82	744.13	892+98.06	OS	24.52' L
4040	562424.28	52932.08	744.38	893+48.79	OS	27.25' L
5001	562458.40	52613.82	744.22	890+30.22	OS	4.88' R
5002	562455.27	52622.24	744.34	890+39.12	OS	6.01' R
5003	562451.43	52632.54	744.47	890+50.00	OS	7.42' R
5004	562437.45	52670.31	744.67	890+89.85	OS	12.71' R
5005	562434.65	52680.11	744.57	891+00.00	OS	13.33' R
5006	562432.70	52686.99	744.50	891+07.12	OS	13.76' R
5007	562427.77	52704.44	744.31	891+25.16	OS	14.87' R
5008	562422.60	52722.78	744.12	891+44.12	OS	16.11' R
5009	562421.01	52728.48	744.06	891+50.00	OS	16.49' R
5010	562408.90	52777.16	743.81	892+00.00	OS	18.57' R
5011	562404.74	52796.73	743.71	892+20.00	OS	18.76' R
5012	562399.26	52826.22	743.89	892+50.00	OS	18.28' R
5013	562397.90	52834.41	743.94	892+58.30	OS	17.99' R
5014	562392.50	52872.33	744.17	892+96.53	OS	15.76' R
5015	562392.08	52875.79	744.20	893+00.00	OS	15.48' R
5030	562467.94	52616.75	744.22	890+30.89	OS	5.07' L
5031	562463.46	52635.31	744.46	890+50.00	OS	4.92' L
5032	562452.29	52684.00	744.71	891+00.00	OS	4.74' L
5033	562441.92	52732.86	744.46	891+50.00	OS	4.87' L
5034	562441.37	52735.57	744.45	891+52.76	OS	4.89' L
5035	562432.00	52781.84	744.21	892+00.01	OS	5.00' L
5036	562428.04	52801.44	744.11	892+20.00	OS	5.00' L
5037	562425.01	52816.36	744.19	892+35.23	OS	5.00' L
5038	562423.69	52822.88	744.22	892+41.88	OS	5.00' L
5039	562412.54	52877.95	744.50	892+98.07	OS	5.00' L
5040	562402.23	52928.86	744.76	893+50.00	OS	5.00' L

PROP DETAIL GRADE 743.95 9999

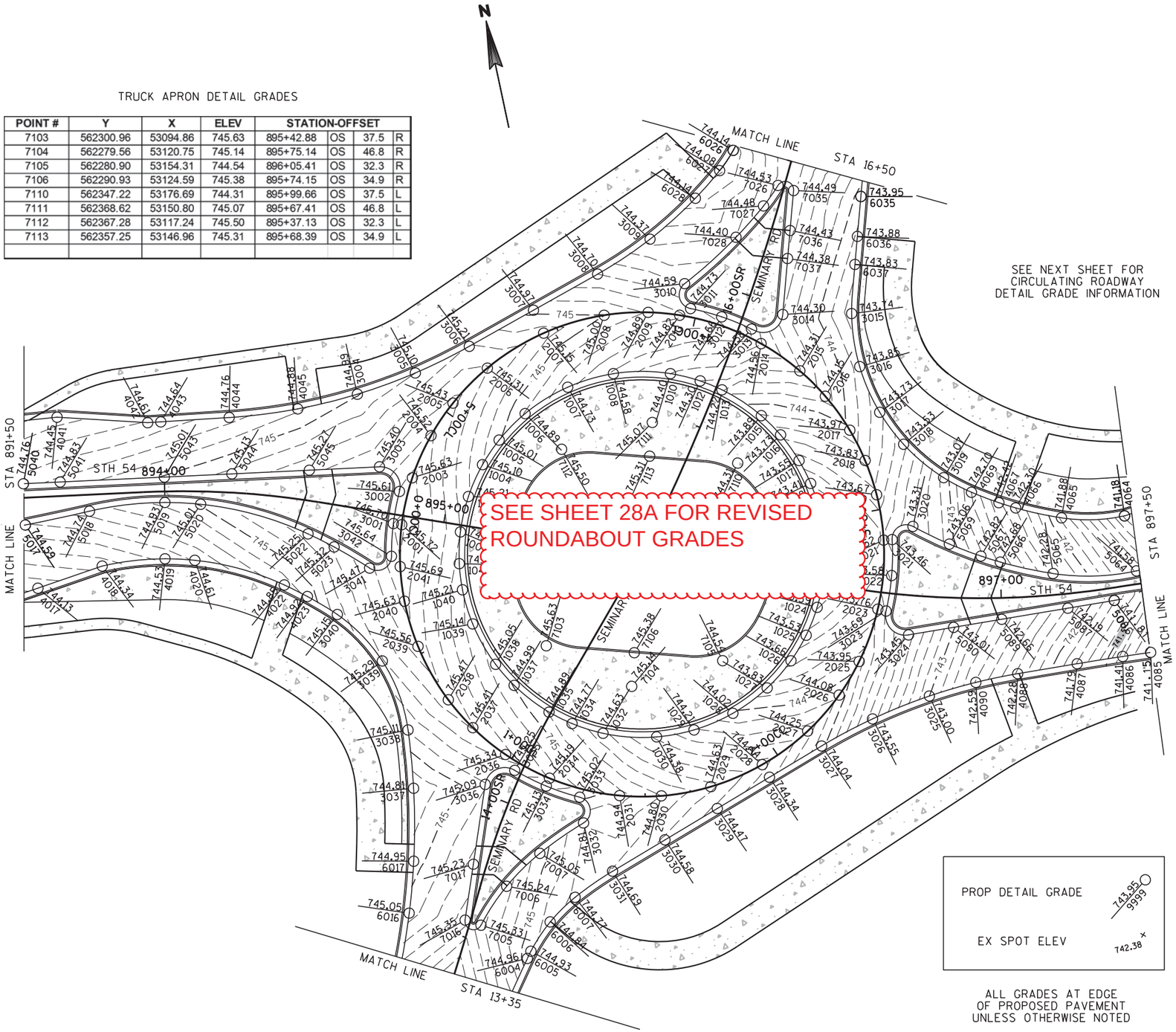
EX SPOT ELEV 742.38

ALL GRADES AT EDGE
OF PROPOSED PAVEMENT
UNLESS OTHERWISE NOTED

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PAVEMENT DETAILS	SHEET 27	E

TRUCK APRON DETAIL GRADES

POINT #	Y	X	ELEV	STATION-OFFSET			
7103	562300.96	53094.86	745.63	895+42.88	OS	37.5	R
7104	562279.56	53120.75	745.14	895+75.14	OS	46.8	R
7105	562280.90	53154.31	744.54	896+05.41	OS	32.3	R
7106	562290.93	53124.59	745.38	895+74.15	OS	34.9	R
7110	562347.22	53176.69	744.31	895+99.66	OS	37.5	L
7111	562368.62	53150.80	745.07	895+67.41	OS	46.8	L
7112	562367.28	53117.24	745.50	895+37.13	OS	32.3	L
7113	562357.25	53146.96	745.31	895+68.39	OS	34.9	L



APPROACH DETAIL GRADES

POINT #	Y	X	ELEV	STATION-OFFSET		
4016	562364.33	52916.80	744.06	893+45.71	OS	34.54' R
4017	562365.00	52924.79	744.13	893+53.40	OS	32.29' R
4018	562367.04	52948.85	744.34	893+76.58	OS	25.52' R
4019	562364.09	52971.13	744.53	893+99.58	OS	23.92' R
4020	562360.98	52981.27	744.61	894+11.10	OS	24.50' R
4021	562346.21	53008.03	744.83	894+44.16	OS	30.18' R
4022	562344.70	53009.94	744.85	894+46.76	OS	30.88' R
4023	562338.71	53016.88	744.92	894+56.33	OS	33.73' R
4042	562412.44	52977.00	744.74	893+94.95	OS	24.57' L
4043	562411.59	52981.57	744.76	893+99.24	OS	24.72' L
4044	562407.14	53005.51	744.88	894+21.61	OS	26.58' L
4045	562404.16	53029.87	745.00	894+43.49	OS	31.74' L
4063	562298.56	53350.25	740.05	897+89.64	OS	34.76' L
4064	562295.40	53305.32	741.18	897+47.55	OS	24.61' L
4065	562300.20	53283.44	741.88	897+24.34	OS	27.02' L
4066	562307.61	53268.51	742.30	897+06.64	OS	31.78' L
4067	562310.87	53263.18	742.42	897+00.01	OS	33.84' L
4086	562247.15	53292.47	741.41	897+39.54	OS	24.64' R
4087	562248.61	53276.14	741.79	897+24.40	OS	25.08' R
4088	562250.35	53254.81	742.28	897+04.79	OS	27.07' R
4089	562250.51	53252.61	742.33	897+02.79	OS	27.37' R
4090	562251.00	53239.62	742.59	896+91.14	OS	29.89' R
5016	562388.28	52918.26	744.54	893+42.38	OS	10.77' R
5017	562387.86	52925.94	744.59	893+50.00	OS	9.67' R
5018	562387.04	52949.24	744.74	893+73.00	OS	5.84' R
5019	562383.49	52975.97	744.93	894+00.00	OS	3.92' R
5020	562379.76	52988.14	745.01	894+12.89	OS	4.57' R
5021	562362.04	53020.26	745.23	894+50.00	OS	10.93' R
5042	562393.27	52973.12	744.99	893+95.11	OS	5.01' L
5043	562392.28	52977.99	745.01	894+00.00	OS	5.10' L
5044	562387.52	53001.53	745.13	894+23.52	OS	6.65' L
5045	562382.05	53028.53	745.27	894+50.00	OS	10.72' L
5063	562272.67	53347.92	740.38	897+91.82	OS	8.85' L
5064	562275.41	53304.63	741.58	897+48.98	OS	4.67' L
5065	562281.76	53275.69	742.28	897+19.15	OS	7.63' L
5066	562290.30	53258.51	742.68	897+00.00	OS	12.75' L
5067	562294.05	53252.36	742.82	896+92.82	OS	14.96' L
5086	562267.19	53294.43	741.81	897+39.67	OS	4.51' R
5087	562268.55	53277.77	742.19	897+23.22	OS	5.12' R
6004	562194.97	53061.17	744.96	13+49.12	OS	23.19' R
6005	562197.16	53063.01	744.93	13+51.87	OS	23.66' R
6006	562205.55	53072.20	744.84	13+63.46	OS	27.34' R
6007	562211.87	53082.92	744.77	13+74.90	OS	33.43' R
6016	562220.84	53024.41	745.05	13+52.55	OS	21.62' L
6017	562238.32	53030.48	744.95	13+70.84	OS	25.16' L
6026	562455.29	53202.34	744.13	16+48.33	OS	20.86' L
6027	562449.49	53195.90	744.08	16+39.85	OS	23.58' L
6028	562442.08	53185.13	744.14	16+27.56	OS	29.10' L
6035	562428.30	53242.30	743.95	16+44.56	OS	27.20' R
6036	562414.86	53237.62	743.88	16+31.10	OS	29.92' R
6037	562405.41	53234.34	743.83	16+21.71	OS	31.98' R
7005	562210.44	53048.06	745.33	13+55.65	OS	4.03' R
7006	562221.63	53060.31	745.24	13+71.49	OS	9.01' R
7007	562230.06	53074.60	745.05	13+86.86	OS	16.70' R
7016	562213.58	53043.05	745.35	13+55.81	OS	1.88' L
7017	562232.11	53050.76	745.23	13+75.64	OS	4.56' L
7026	562439.31	53214.70	744.53	16+40.45	OS	2.22' L
7027	562433.52	53207.94	744.48	16+32.00	OS	5.12' L
7028	562425.12	53195.74	744.40	16+18.35	OS	11.21' L
7035	562436.18	53219.63	744.49	16+40.21	OS	3.62' R
7036	562422.74	53214.95	744.43	16+26.35	OS	6.42' R
7037	562413.29	53211.67	744.38	16+16.67	OS	8.55' R

Scale 1: 40
Revised Grades in Red
New Circulating Roadway Crown 12' from flange of truck apron C&G. Truck Apron Slope revised to 1%. Inside lane of circulating roadway X–slope is revised to 1%. All Revisions final 7/3/2012.

SHEET 28A

CIRCULATING ROADWAY
DETAIL GRADES
INNER EDGE OF PAVEMENT

POINT #	Y	X	ELEV	STATION-OFFSET		
1001	562347.64	53075.19	745.30	895+06.31	OS	2.40' R
1002	562355.34	53078.78	745.25	895+06.56	OS	6.08' L
1003	562359.14	53081.03	745.21	895+07.12	OS	10.47' L
1004	562368.87	53088.66	745.10	895+10.26	OS	22.43' L
1005	562375.89	53096.51	745.01	895+14.69	OS	31.99' L
1006	562382.75	53107.77	744.89	895+22.30	OS	42.74' L
1007	562388.14	53124.72	744.73	895+35.72	OS	54.42' L
1008	562388.83	53141.64	744.58	895+50.99	OS	61.75' L
1009	562386.69	53153.29	744.47	895+62.53	OS	64.41' L
1010	562383.87	53161.30	744.39	895+71.00	OS	65.00' L
1011	562382.83	53163.60	744.37	895+73.52	OS	64.96' L
1012	562378.78	53170.91	744.30	895+81.84	OS	64.13' L
1013	562373.82	53177.64	744.22	895+89.98	OS	62.25' L
1014	562371.13	53180.64	744.14	895+93.80	OS	60.97' L
1015	562361.49	53188.94	743.89	896+05.24	OS	55.42' L
1016	562353.20	53193.89	743.73	896+13.08	OS	49.77' L
1017	562342.76	53198.03	743.55	896+21.02	OS	41.83' L
1018	562333.87	53200.03	743.41	896+26.39	OS	34.46' L
1019	562324.21	53200.77	743.25	896+30.90	OS	25.88' L
1020	562314.74	53200.10	743.10	896+34.03	OS	16.92' L
1021	562311.93	53199.63	743.10	896+34.71	OS	14.15' L
1022	562302.92	53197.23	743.22	896+36.08	OS	4.94' L
1023	562294.36	53193.58	743.34	896+36.12	OS	4.38' R
1024	562290.64	53191.51	743.39	896+35.70	OS	8.61' R
1025	562281.97	53185.28	743.53	896+33.42	OS	19.04' R
1026	562274.54	53177.84	743.66	896+29.54	OS	28.81' R
1027	562267.24	53167.28	743.83	896+22.74	OS	39.70' R
1028	562261.49	53153.26	744.02	896+12.15	OS	50.54' R
1029	562259.14	53138.43	744.21	895+99.46	OS	58.57' R
1030	562260.00	53124.95	744.38	895+86.75	OS	63.13' R
1031	562262.82	53114.09	744.52	895+75.66	OS	64.85' R
1032	562265.90	53106.81	744.63	895+67.75	OS	64.90' R
1033	562267.00	53104.71	744.66	895+65.39	OS	64.73' R
1034	562271.93	53096.99	744.77	895+56.35	OS	63.26' R
1035	562277.90	53090.04	744.89	895+47.60	OS	60.54' R
1036	562281.00	53087.11	744.92	895+43.68	OS	58.86' R
1037	562290.14	53080.35	744.99	895+33.85	OS	53.15' R
1038	562299.01	53075.81	745.05	895+26.17	OS	46.80' R
1039	562314.90	53071.43	745.14	895+15.84	OS	33.95' R
1040	562327.53	53070.87	745.21	895+10.32	OS	22.58' R
1041	562336.82	53072.03	745.27	895+07.71	OS	13.58' R
1042	562339.55	53072.64	745.28	895+07.18	OS	10.84' R

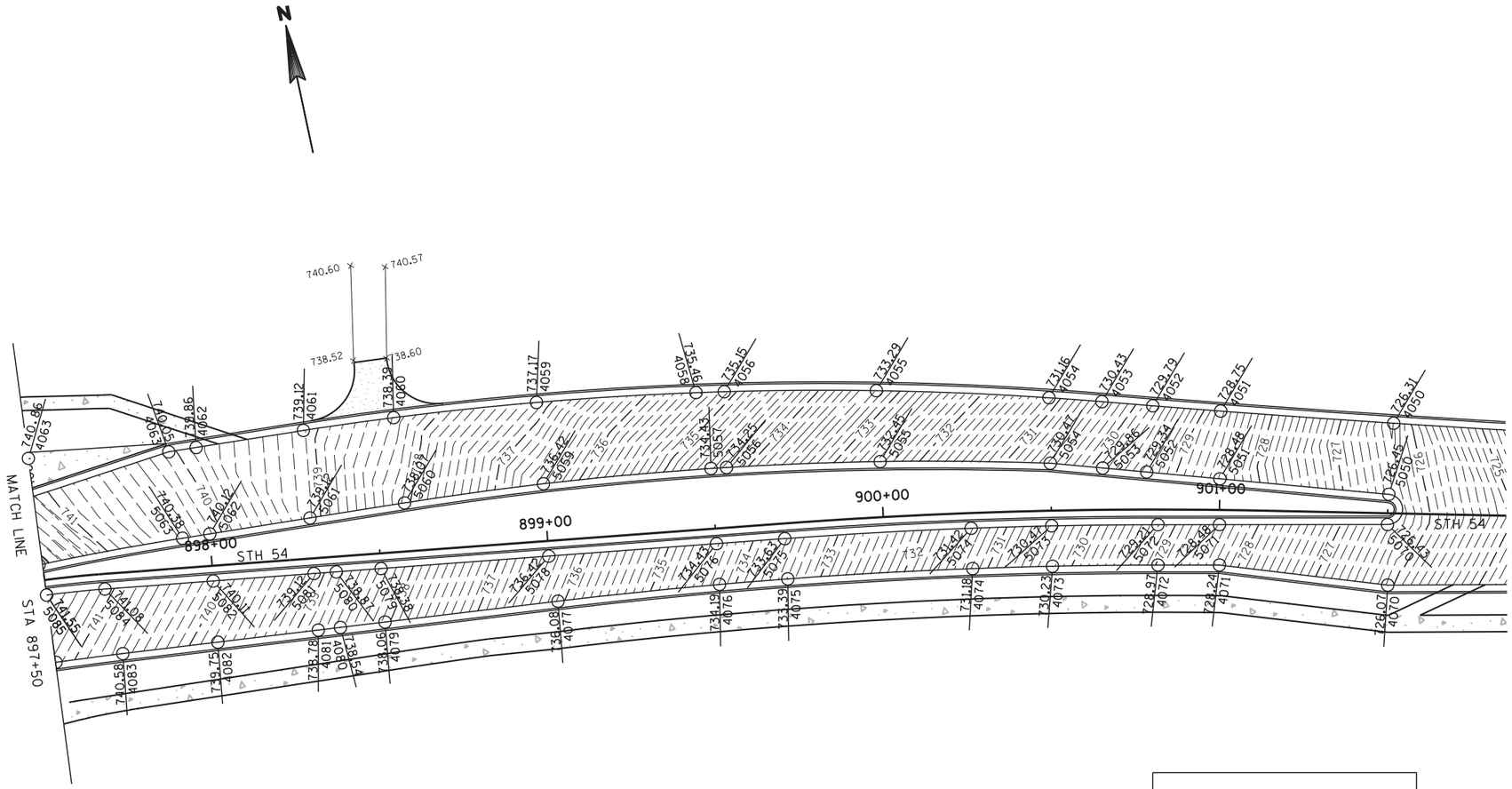
CIRCULATING ROADWAY
DETAIL GRADES
CROWN

POINT #	Y	X	ELEV	STATION-OFFSET		
2001	562355.25	53055.62	745.72	894+85.33	OS	3.17' R
2002	562365.43	53060.36	745.67	894+85.65	OS	8.05' L
2003	562370.46	53063.35	745.63	894+86.39	OS	13.85' L
2004	562383.34	53073.44	745.52	894+90.55	OS	29.67' L
2005	562392.63	53083.83	745.43	894+96.41	OS	42.32' L
2006	562401.70	53098.72	745.31	895+06.48	OS	56.55' L
2007	562408.84	53121.15	745.15	895+24.24	OS	72.00' L
2008	562409.74	53143.54	745.00	895+44.44	OS	81.71' L
2009	562406.91	53158.95	744.89	895+59.71	OS	85.22' L
2010	562403.18	53169.55	744.81	895+70.92	OS	86.00' L
2011	562401.81	53172.59	744.79	895+74.25	OS	85.95' L
2012	562396.44	53182.26	744.72	895+85.26	OS	84.86' L
2013	562389.88	53191.16	744.64	895+96.03	OS	82.36' L
2014	562386.32	53195.13	744.56	896+01.08	OS	80.67' L
2015	562373.58	53206.11	744.31	896+16.22	OS	73.32' L
2016	562362.60	53212.67	744.15	896+26.59	OS	65.85' L
2017	562348.79	53218.15	743.97	896+37.10	OS	55.34' L
2018	562337.03	53220.80	743.83	896+44.19	OS	45.59' L
2019	562324.24	53221.77	743.67	896+50.88	OS	34.18' L
2020	562311.72	53220.88	743.52	896+55.09	OS	22.22' L
2021	562308.00	53220.26	743.52	896+55.91	OS	18.52' L
2022	562296.09	53217.09	743.64	896+57.29	OS	6.27' L
2023	562284.75	53212.25	743.76	896+56.83	OS	6.05' R
2024	562279.84	53209.51	743.81	896+56.07	OS	11.62' R
2025	562268.36	53201.27	743.95	896+52.80	OS	25.32' R
2026	562258.53	53191.44	744.08	896+47.93	OS	38.13' R
2027	562248.87	53177.46	744.25	896+39.37	OS	52.52' R
2028	562241.26	53158.91	744.44	896+25.36	OS	66.86' R
2029	562238.16	53139.29	744.63	896+08.57	OS	77.49' R
2030	562239.29	53121.46	744.80	895+91.75	OS	83.53' R
2031	562243.02	53107.08	744.94	895+77.07	OS	85.80' R
2032	562247.10	53097.45	745.05	895+66.62	OS	85.87' R
2033	562248.55	53094.67	745.08	895+63.49	OS	85.65' R
2034	562255.08	53084.46	745.19	895+51.53	OS	83.70' R
2035	562262.97	53075.27	745.31	895+39.96	OS	80.10' R
2036	562267.08	53071.39	745.34	895+34.77	OS	77.87' R
2037	562279.17	53062.44	745.41	895+21.76	OS	70.32' R
2038	562290.90	53056.44	745.47	895+11.59	OS	61.93' R
2039	562311.93	53050.64	745.56	894+97.93	OS	44.92' R
2040	562328.64	53049.89	745.63	894+90.63	OS	29.88' R
2041	562340.94	53051.44	745.69	894+87.17	OS	17.97' R
2042	562344.55	53052.24	745.70	894+86.47	OS	14.34' R

CIRCULATING ROADWAY
DETAIL GRADES
OUTER EDGE OF PAVEMENT

POINT #	Y	X	ELEV	STATION-OFFSET		
3001	562356.34	53052.82	745.70	894+82.33	OS	3.28' R
3002	562366.87	53057.73	745.61	894+82.66	OS	3.33' L
3003	562377.10	53052.98	745.40	894+74.25	OS	15.83' L
3004	562404.02	53051.68	744.99	894+62.37	OS	40.03' L
3005	562406.28	53073.48	745.10	894+81.49	OS	50.75' L
3006	562410.77	53094.39	745.21	894+98.91	OS	63.17' L
3007	562417.62	53119.63	744.97	895+19.36	OS	79.47' L
3008	562424.48	53144.87	744.70	895+39.82	OS	95.77' L
3009	562431.93	53165.96	744.37	895+56.22	OS	110.96' L
3010	562413.62	53174.01	744.59	895+70.87	OS	97.35' L
3011	562404.52	53173.88	744.73	895+74.36	OS	88.95' L
3012	562398.97	53183.88	744.66	895+85.74	OS	87.82' L
3013	562392.18	53193.09	744.58	895+96.89	OS	85.23' L
3014	562394.46	53205.12	744.30	896+07.03	OS	92.10' L
3015	562388.78	53228.93	743.74	896+31.14	OS	96.33' L
3016	562369.82	53227.08	743.85	896+36.96	OS	78.18' L
3017	562352.35	53230.00	743.72	896+47.11	OS	63.30' L
3018	562339.26	53235.45	743.53	896+59.40	OS	53.14' L
3019	562324.29	53246.33	743.07	896+77.39	OS	42.48' L
3020	562310.17	53231.50	743.31	896+66.48	OS	24.45' L
3021	562307.44	53223.20	743.46	896+59.06	OS	19.05' L
3022	562295.11	53219.92	743.58	896+60.36	OS	6.35' L
3023	562283.38	53214.92	743.69	896+59.75	OS	6.39' R
3024	562273.20	53220.57	743.45	896+68.21	OS	14.07' R
3025	562250.35	53222.43	743.00	896+76.38	OS	35.22' R
3026	562247.42	53200.87	743.55	896+59.24	OS	44.99' R
3027	562242.53	53180.98	744.04	896+45.02	OS	56.95' R
3028	562236.31	53160.30	744.34	896+28.59	OS	70.86' R
3029	562230.09	53139.62	744.47	896+12.07	OS	84.77' R
3030	562223.84	53118.85	744.58	895+95.48	OS	98.74' R
3031	562217.59	53098.08	744.69	895+78.89	OS	112.71' R
3032	562236.74	53092.29	744.81	895+65.99	OS	97.43' R
3033	562245.92	53093.23	745.02	895+63.22	OS	88.63' R
3034	562252.67	53082.67	745.13	895+50.84	OS	86.62' R
3035	562260.84	53073.16	745.25	895+38.87	OS	82.89' R
3036	562258.56	53061.77	745.09	895+29.32	OS	89.50' R
3037	562263.46	53036.79	744.81	895+04.44	OS	94.91' R
3038	562284.00	53039.94	745.11	894+99.18	OS	74.80' R
3039	562309.99	53037.09	745.29	894+86.26	OS	52.07' R
3040	562329.92	53025.63	745.15	894+67.84	OS	38.32' R
3041	562343.07	53040.79	745.47	894+76.55	OS	20.24' R
3042	562345.26	53049.33	745.64	894+83.52	OS	14.84' R

ALL GRADES AT EDGE
OF PROPOSED PAVEMENT
UNLESS OTHERWISE NOTED



PROP DETAIL GRADE 743.95 9999

EX SPOT ELEV 742.38

ALL GRADES AT EDGE
OF PROPOSED PAVEMENT
UNLESS OTHERWISE NOTED

EAST APPROACH DETAIL GRADES

POINT #	Y	X	ELEV	STATION-OFFSET		
4050	562217.65	53705.34	726.31	901+51.22	OS	26.79' L
4051	562233.74	53656.37	728.75	901+00.00	OS	29.38' L
4052	562240.20	53637.17	729.79	900+80.19	OS	30.83' L
4053	562245.09	53622.82	730.43	900+65.39	OS	32.15' L
4054	562250.08	53607.84	731.16	900+50.00	OS	33.58' L
4055	562264.69	53558.61	733.29	900+00.00	OS	37.63' L
4056	562275.46	53514.71	735.15	899+55.63	OS	40.37' L
4057	562276.47	53510.10	735.34	899+50.91	OS	40.57' L
4058	562277.25	53506.50	735.46	899+47.23	OS	40.71' L
4059	562286.03	53459.82	737.17	898+99.74	OS	41.32' L
4060	562292.05	53417.54	738.39	898+57.05	OS	39.95' L
4061	562294.93	53390.60	739.12	898+30.02	OS	38.14' L
4062	562297.83	53358.43	739.86	897+97.83	OS	35.44' L
4063	562298.56	53350.25	740.05	897+89.64	OS	34.76' L
4070	562171.44	53691.84	726.07	901+50.46	OS	21.35' R
4071	562189.48	53644.80	728.24	901+00.17	OS	16.37' R
4072	562193.94	53627.07	728.97	900+81.69	OS	16.50' R
4073	562201.28	53596.61	730.23	900+50.01	OS	16.51' R
4074	562206.41	53573.44	731.18	900+26.01	OS	16.51' R
4075	562216.90	53519.39	733.39	899+70.33	OS	16.50' R
4076	562220.28	53499.33	734.19	899+50.00	OS	16.64' R
4077	562227.19	53451.53	736.08	899+01.72	OS	18.07' R
4078	562227.41	53449.82	736.15	899+00.00	OS	18.15' R
4079	562233.78	53400.18	738.06	898+50.00	OS	20.44' R
4080	562235.48	53386.93	738.54	898+36.66	OS	21.05' R
4081	562236.32	53380.38	738.78	898+30.06	OS	21.35' R
4082	562240.15	53350.53	739.75	898+00.00	OS	22.73' R
4083	562243.77	53322.33	740.58	897+71.60	OS	24.03' R
5050	562197.52	53698.77	726.45	901+50.22	OS	5.64' L
5051	562214.29	53651.21	728.48	901+00.00	OS	9.25' L
5052	562221.56	53630.60	729.34	900+78.37	OS	11.15' L
5053	562225.93	53618.20	729.86	900+65.39	OS	12.44' L
5054	562231.12	53603.47	730.47	900+50.00	OS	14.12' L
5055	562243.97	53554.57	732.45	900+00.00	OS	16.52' L
5056	562253.46	53509.84	734.25	899+54.62	OS	17.86' L
5057	562254.30	53505.29	734.43	899+50.00	OS	17.90' L
5058	562254.82	53502.45	734.55	899+47.11	OS	17.92' L
5059	562262.09	53455.90	736.42	899+00.00	OS	17.05' L
5060	562266.68	53414.48	738.07	898+58.41	OS	14.44' L
5061	562269.23	53386.15	739.12	898+30.07	OS	12.06' L
5062	562271.93	53356.10	740.12	898+00.00	OS	9.54' L
5063	562272.67	53347.92	740.38	897+91.82	OS	8.85' L
5070	562188.91	53696.17	726.43	901+50.00	OS	3.36' R
5071	562201.11	53647.76	728.48	901+00.05	OS	4.37' R
5072	562205.58	53630.00	729.21	900+81.68	OS	4.49' R
5073	562212.98	53599.30	730.47	900+50.00	OS	4.50' R
5074	562218.15	53575.94	731.42	900+26.01	OS	4.51' R
5075	562228.72	53521.46	733.63	899+70.33	OS	4.50' R
5076	562232.23	53501.43	734.43	899+50.00	OS	4.50' R
5077	562240.56	53453.87	736.35	899+01.72	OS	4.50' R
5078	562240.86	53452.18	736.42	899+00.00	OS	4.50' R
5079	562249.48	53402.93	738.38	898+50.00	OS	4.50' R
5080	562251.78	53389.79	738.87	898+36.66	OS	4.50' R
5081	562252.93	53383.24	739.12	898+30.01	OS	4.50' R
5082	562258.11	53353.68	740.11	898+00.00	OS	4.50' R
5083	562263.01	53325.70	740.97	897+71.60	OS	4.50' R

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PAVEMENT DETAILS	SHEET 30	E

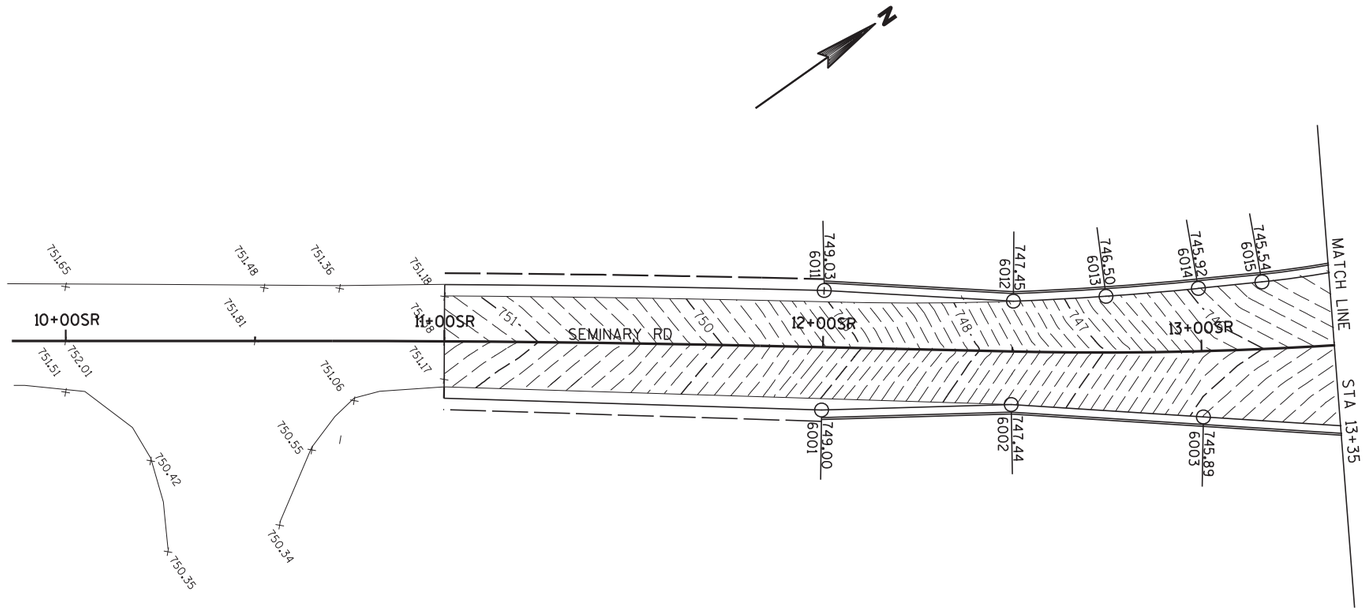
SOUTH APPROACH DETAIL GRADES

POINT #	Y	X	ELEV	STATION-OFFSET		
6001	562074.38	52969.67	749.00	12+00.00	OS	16.56' R
6002	562116.12	52997.57	747.44	12+50.03	OS	14.00' R
6003	562155.70	53029.50	745.89	13+00.00	OS	17.36' R
6011	562093.16	52944.50	749.03	12+00.00	OS	15.00' L
6012	562132.34	52975.61	747.45	12+50.00	OS	13.30' L
6013	562153.05	52988.65	746.61	12+74.77	OS	14.85' L
6014	562174.18	53001.01	745.92	12+99.57	OS	16.59' L
6015	562188.89	53009.28	745.54	13+16.71	OS	17.72' L

PROP DETAIL GRADE 743.95 9999

EX SPOT ELEV 742.38

ALL GRADES AT EDGE
OF PROPOSED PAVEMENT
UNLESS OTHERWISE NOTED



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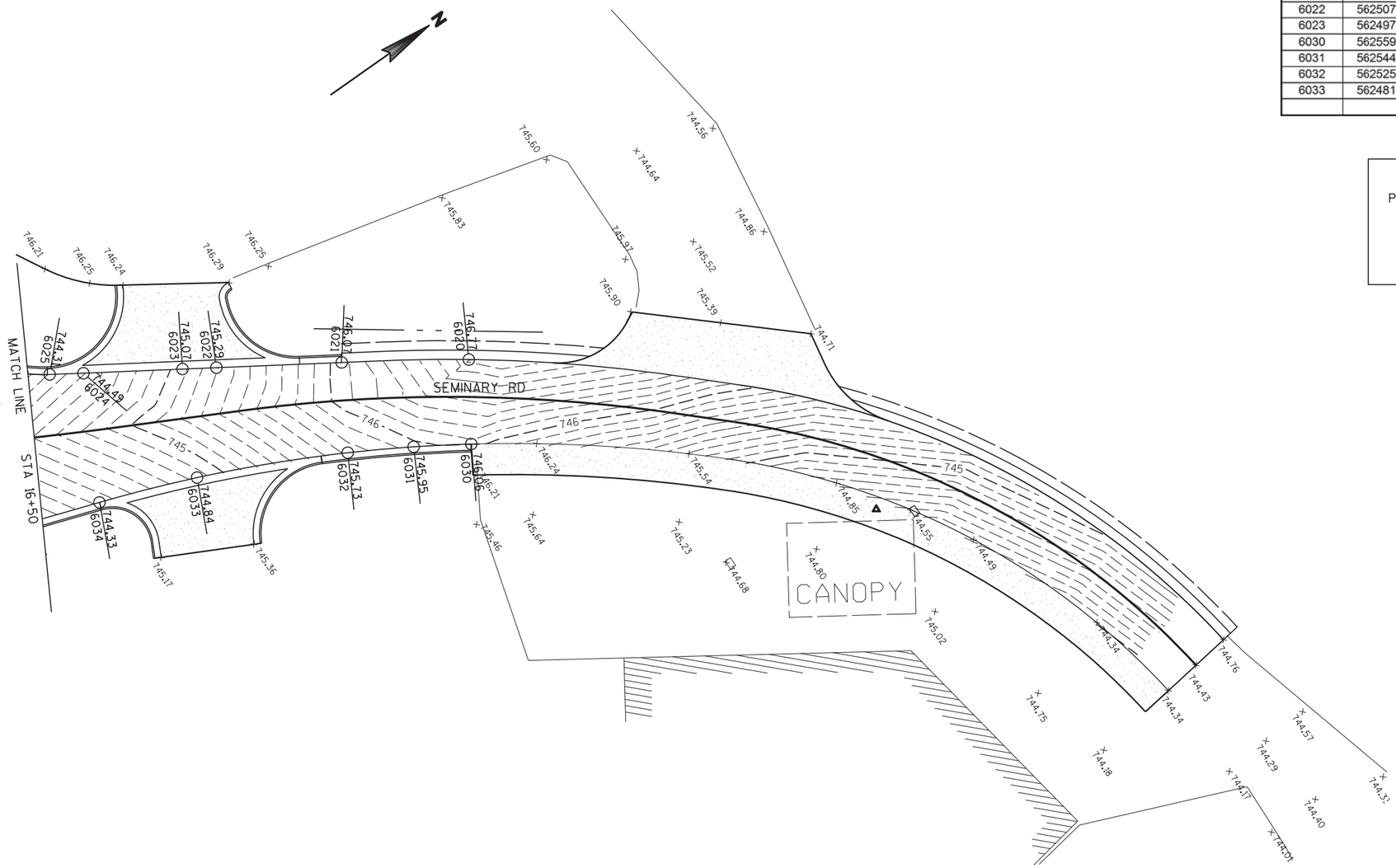
NORTH APPROACH DETAIL GRADES

POINT #	Y	X	ELEV	STATION-OFFSET		
6020	562574.62	53281.20	746.77	17+89.79	OS	12.00' L
6021	562540.80	53258.49	746.07	17+50.00	OS	12.17' L
6022	562507.08	53236.71	745.29	17+10.81	OS	14.74' L
6023	562497.96	53230.83	745.07	17+00.00	OS	15.73' L
6030	562559.65	53303.75	746.06	17+90.93	OS	15.04' R
6031	562544.06	53293.84	745.95	17+71.89	OS	15.85' R
6032	562525.72	53283.22	745.73	17+50.00	OS	16.80' R
6033	562481.72	53261.92	744.84	17+00.00	OS	19.35' R



PROP DETAIL GRADE 743.05 9999

EX SPOT ELEV 742.38

ALL GRADES AT EDGE
OF PROPOSED PAVEMENT
UNLESS OTHERWISE NOTED

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PAVEMENT DETAILS	SHEET 32	E

FILE NAME : 021106_id.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 40.000000' / in. WISDOT/CADDS SHEET

SIDEWALK DETAIL GRADES

POINT #	Y	X	ELEV	STATION-OFFSET		
8001	562334.14	52999.93	744.70	894+40.46	OS	44.35' R
8002	562327.56	53007.59	744.72	894+51.74	OS	47.64' R
8003	562327.36	52995.60	744.38	894+38.45	OS	52.21' R
8004	562320.70	53003.21	744.40	894+50.05	OS	55.65' R
8005	562322.27	52992.35	744.26	894+36.85	OS	58.11' R
8006	562339.31	52965.85	743.95	894+00.00	OS	49.25' R
8007	562335.82	52963.88	743.87	893+98.62	OS	53.08' R
8008	562318.88	52990.18	744.18	894+35.74	OS	62.04' R
8009	562312.10	52997.72	744.20	894+47.76	OS	65.69' R
8010	562302.31	53006.67	744.33	894+61.38	OS	71.19' R
8011	562308.64	53014.41	744.53	894+65.98	OS	62.31' R
8015	562365.38	53019.88	745.19	894+48.33	OS	7.98' R
8016	562359.08	53027.72	745.28	894+58.20	OS	10.72' R
8017	562374.61	53025.77	745.36	894+50.29	OS	2.79' L
8018	562371.28	53035.50	745.44	894+60.51	OS	3.56' L

SIDEWALK DETAIL GRADES

POINT #	Y	X	ELEV	STATION-OFFSET		
8019	562379.96	53026.25	745.26	894+48.73	OS	7.92' L
8020	562377.96	53036.11	745.31	894+58.41	OS	9.94' L
8025	562417.40	53029.64	744.81	894+39.12	OS	44.05' L
8026	562416.36	53039.59	744.89	894+47.51	OS	46.66' L
8027	562423.38	53030.19	744.69	894+37.77	OS	49.84' L
8028	562427.36	53030.55	744.61	894+36.90	OS	53.71' L
8029	562426.32	53040.49	744.69	894+45.07	OS	56.25' L
8030	562428.02	52986.18	744.84	894+00.00	OS	41.76' L
8031	562431.99	52986.60	744.76	893+99.58	OS	45.73' L
8032	562414.89	53058.33	745.00	894+64.17	OS	52.65' L
8033	562424.89	53058.08	744.80	894+59.98	OS	61.73' L
8037	562229.42	53247.55	741.88	897+02.38	OS	49.06' R
8038	562231.32	53257.41	741.68	897+10.40	OS	45.23' R
8039	562220.32	53248.55	742.08	897+04.83	OS	57.74' R
8040	562222.81	53258.35	741.88	897+12.53	OS	53.41' R
8041	562242.44	53246.11	742.37	896+98.65	OS	36.67' R
8042	562243.34	53256.07	742.19	897+07.20	OS	33.68' R
8043	562222.83	53224.23	742.34	896+84.65	OS	61.09' R
8044	562213.39	53227.58	742.54	896+89.30	OS	69.33' R
8045	562226.93	53284.07	741.08	897+33.87	OS	45.60' R
8046	562233.92	53283.42	740.94	897+32.61	OS	38.73' R

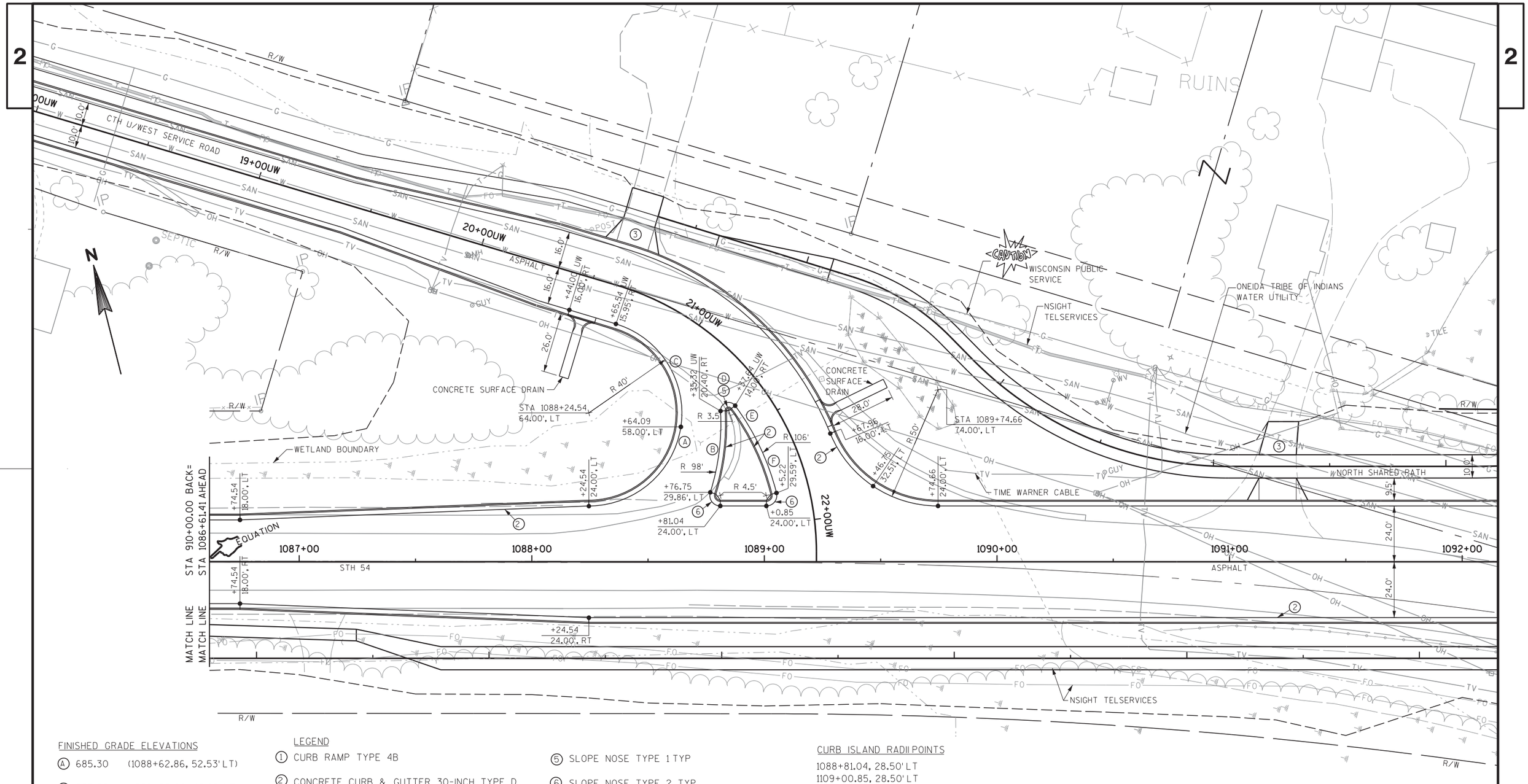
SIDEWALK DETAIL GRADES

POINT #	Y	X	ELEV	STATION-OFFSET		
8050	562273.91	53242.63	742.89	896+88.40	OS	6.97' R
8051	562273.09	53252.78	742.69	896+98.25	OS	5.31' R
8052	562281.25	53241.82	743.01	896+85.72	OS	0.10' R
8053	562278.75	53252.16	742.81	896+96.36	OS	0.06' L
8054	562292.93	53249.55	742.85	896+90.25	OS	13.19' L
8055	562287.66	53258.05	742.65	897+00.14	OS	10.08' L
8060	562323.75	53269.97	742.35	897+04.51	OS	47.88' L
8061	562318.62	53278.54	742.15	897+15.60	OS	44.45' L
8062	562330.43	53274.37	742.03	897+08.09	OS	55.30' L
8063	562325.31	53282.98	741.83	897+19.50	OS	51.78' L
8064	562330.34	53286.30	741.71	897+22.59	OS	57.26' L
8065	562338.77	53279.89	741.83	897+12.93	OS	64.53' L
8066	562333.69	53288.52	741.63	897+24.72	OS	60.89' L
8067	562343.22	53258.41	742.26	896+85.00	OS	64.05' L
8068	562350.41	53265.36	742.06	896+91.29	OS	72.79' L
8069	562321.12	53310.97	740.51	897+50.00	OS	50.80' L
8070	562325.02	53311.84	740.43	897+50.36	OS	54.78' L
8100	562246.95	53022.08	745.82	894+97.48	OS	115.90' R
8101	562237.37	53019.18	745.82	894+98.62	OS	125.84' R
8102	562240.04	53009.73	746.02	894+88.89	OS	127.14' R
8103	562249.67	53012.45	746.02	894+87.57	OS	117.22' R
8104	562278.69	53017.23	745.24	894+80.45	OS	88.68' R
8105	562279.62	53027.19	745.44	894+89.22	OS	83.88' R
8106	562228.14	53051.82	745.25	895+32.24	OS	121.37' R
8107	562237.44	53055.69	745.20	895+32.11	OS	111.30' R
8108	562226.70	53056.91	745.32	895+37.49	OS	120.67' R
8109	562235.39	53062.94	745.29	895+39.58	OS	110.31' R
8110	562223.75	53059.08	745.24	895+40.65	OS	122.52' R
8111	562229.27	53067.44	745.14	895+46.13	OS	114.15' R
8115	562204.35	53085.73	744.88	895+72.81	OS	129.77' R
8116	562198.43	53077.67	744.98	895+67.75	OS	138.40' R
8117	562180.27	53103.17	746.02	895+98.37	OS	144.96' R
8118	562189.82	53106.13	745.82	895+97.30	OS	135.02' R
8119	562180.83	53134.48	745.10	896+26.89	OS	132.03' R
8120	562190.27	53131.18	744.90	896+20.11	OS	124.68' R
8125	562450.90	53165.80	745.05	895+48.55	OS	128.32' L
8126	562460.29	53162.36	745.25	895+41.67	OS	135.57' L
8127	562454.86	53176.62	744.92	895+56.92	OS	136.25' L
8128	562463.54	53171.23	744.72	895+48.53	OS	142.08' L
8129	562458.38	53186.21	744.86	895+64.33	OS	143.28' L
8130	562467.05	53180.82	744.66	895+55.94	OS	149.11' L
8135	562422.73	53196.58	744.40	895+87.98	OS	114.66' L
8136	562428.24	53204.93	744.45	895+93.46	OS	123.04' L
8137	562417.39	53199.90	744.52	895+93.15	OS	111.08' L
8138	562425.67	53206.53	744.52	895+95.95	OS	121.31' L
8139	562414.12	53209.31	744.39	896+03.08	OS	111.80' L
8140	562423.56	53212.59	744.43	896+02.35	OS	121.78' L
8145	562401.96	53244.25	743.51	896+39.98	OS	114.50' L
8146	562411.01	53248.68	743.56	896+40.46	OS	124.57' L
8147	562398.68	53253.70	743.31	896+53.33	OS	115.15' L
8148	562408.12	53256.98	743.36	896+52.58	OS	125.14' L
8149	562374.29	53240.65	743.59	896+48.93	OS	87.65' L
8150	562375.35	53250.59	743.39	896+61.61	OS	92.25' L

PROP DETAIL GRADE 743.35 9999

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	SIDEWALK DETAILS	SHEET 33	E

FILE NAME : 021107 ID.DGN PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 40.000000' / in. WISDOT/CADDS SHEET



FINISHED GRADE ELEVATIONS

- (A) 685.30 (1088+62.86, 52.53' LT)
- (B) 685.50 (1088+80.60, 47.65' LT)
- (C) 686.96 (21+00.00, 21.84' RT)
- (D) 685.74 (21+33.76, 16.44' RT)
- (E) 685.34 (21+46.26, 14.00' RT)
- (F) 684.92 (21+69.73, 14.00' RT)

LEGEND

1. CURB RAMP TYPE 4B
2. CONCRETE CURB & GUTTER 30-INCH TYPE D
3. RESIDENTIAL ENTRANCE 3-INCHES ASPHALTIC SURFACE
   DENSE OR MATCH EXISTING THICKNESSES
4. COMMERCIAL ENTRANCE 4-INCHES ASPHALTIC SURFACE OVER 12-INCHES BASE AGGREGATE
   DENSE OR MATCH EXISTING THICKNESSES
5. SLOPE NOSE TYPE 1 TYP
6. SLOPE NOSE TYPE 2 TYP

RADII MEASURED TO EDGE OF PAVEMENT OR FLANGE OF CURB

xxx SAW CUTOVER 6-INCHES BASE AGGREGATE

CURB ISLAND RADII POINTS

1088+81.04, 28.50' LT
1109+00.85, 28.50' LT
21+37.64UW, 17.50' RT

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	INTERSECTION LAYOUT DETAIL	SHEET 34	E

LEGEND

① CURB RAMP TYPE 4B

② CONCRETE CURB & GUTTER 30-INCH TYPE D

③ RESIDENTIAL ENTRANCE 3-INCHES ASPHALTIC SURFACE
DENSE OR MATCH EXISTING THICKNESSES

④ COMMERCIAL ENTRANCE 4-INCHES ASPHALTIC SURFACE OVER 12-INCHES BASE AGGREGATE
DENSE OR MATCH EXISTING THICKNESSES

⑤ SLOPE NOSE TYPE 1 TYP

⑥ SLOPE NOSE TYPE 2 TYP

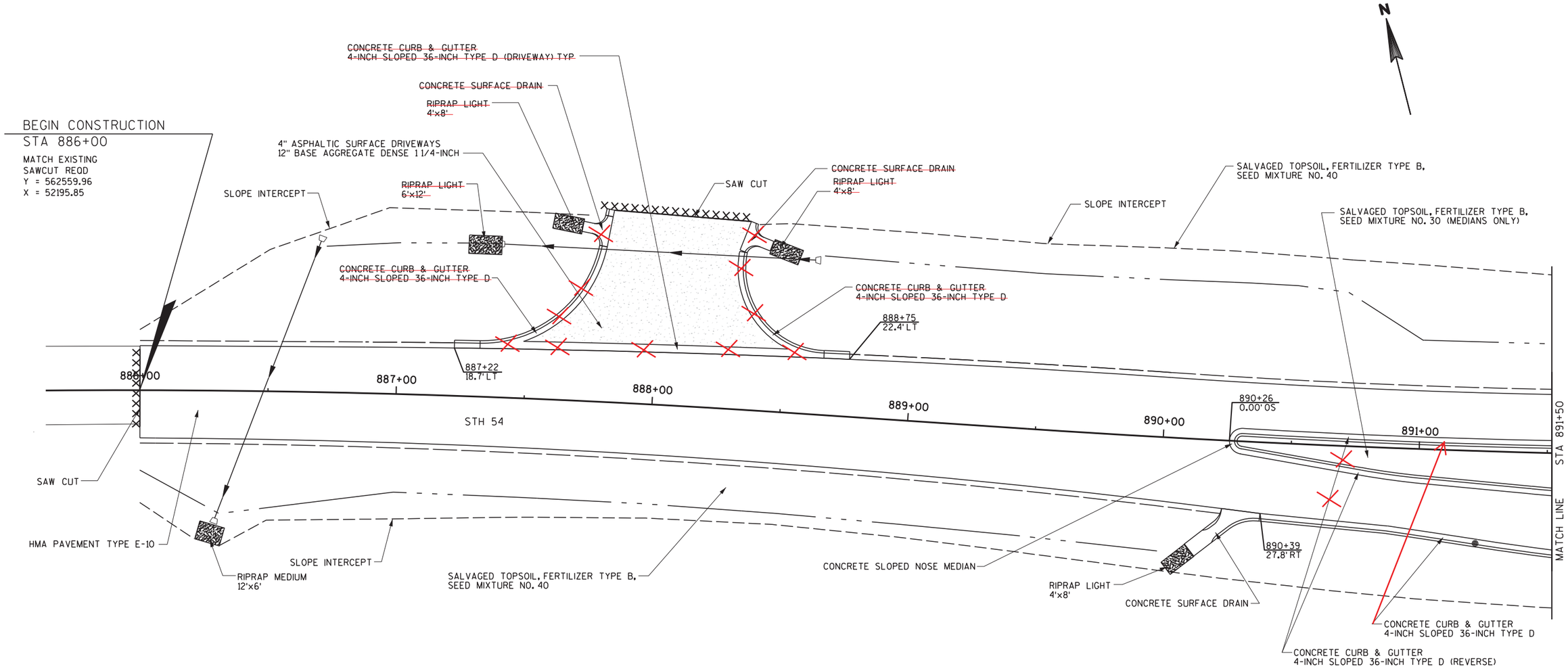
⑦ CONCRETE SIDEWALK 4-INCH FOR CURB RAMP PAD

RADII MEASURED TO EDGE OF PAVEMENT OR FLANGE OF CURB

XXX SAW CUTOVER 6-INCHES BASE AGGREGATE

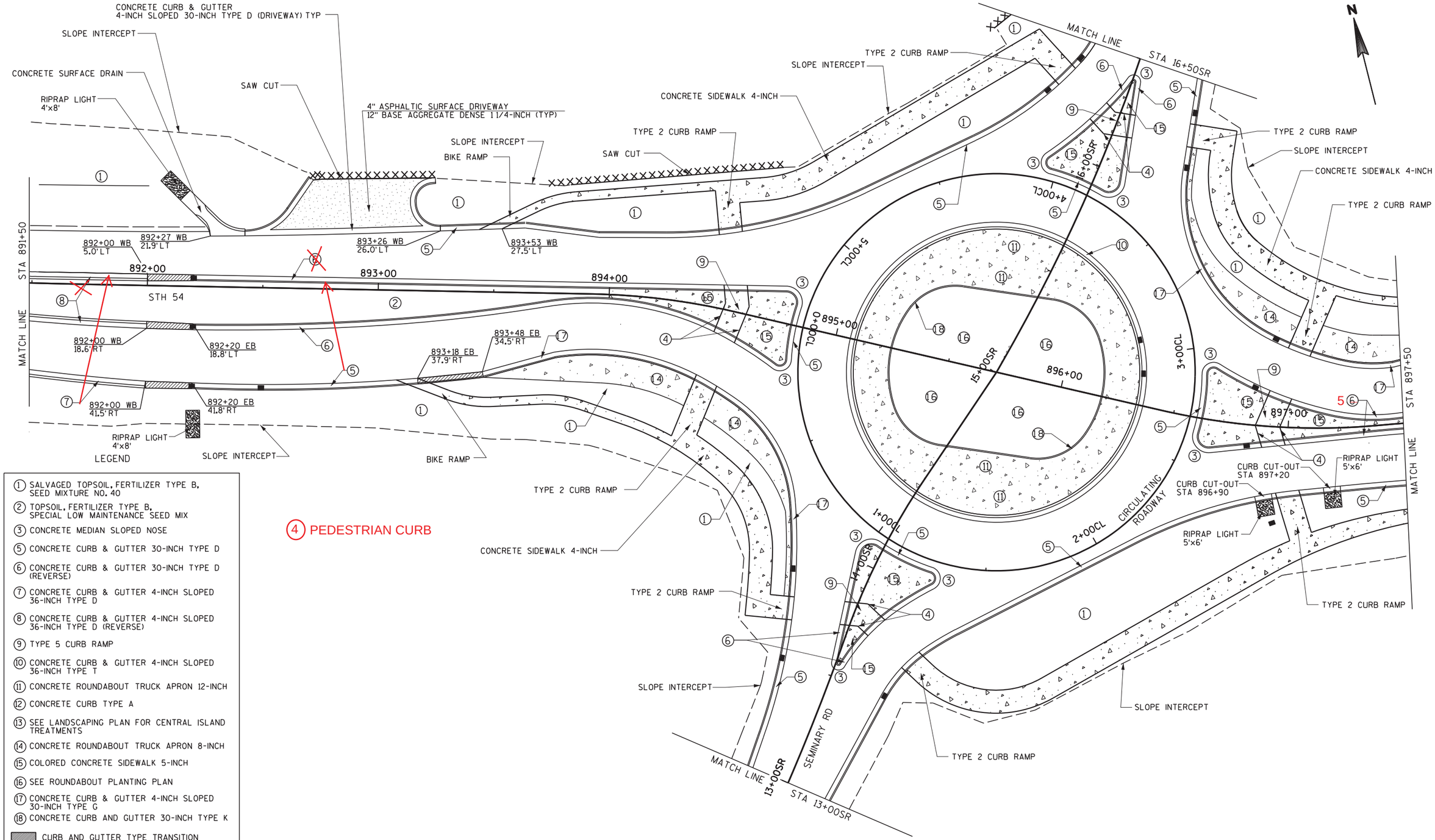
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	INTERSECTION LAYOUT DETAIL	SHEET 35 E

2



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN DETAILS	SHEET 36	E

2



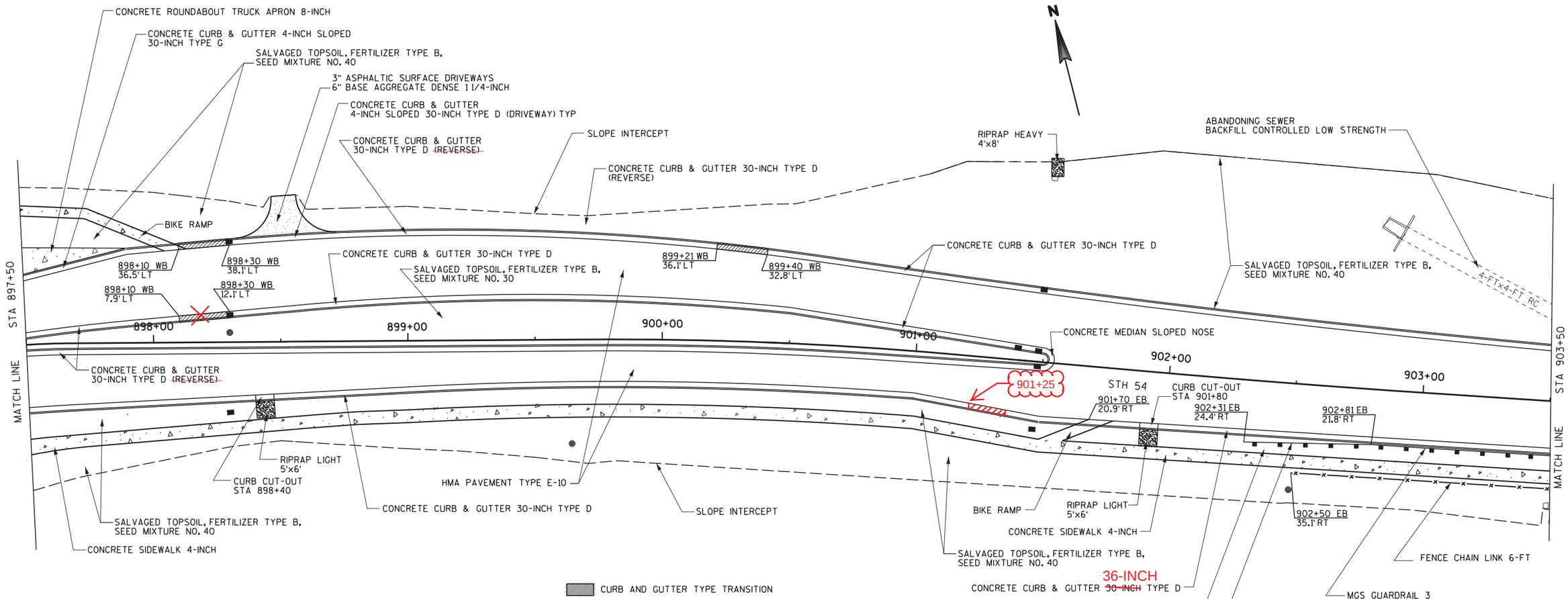
LEGEND

(1) SALVAGED TOPSOIL, FERTILIZER TYPE B, SEED MIXTURE NO. 40
(2) TOPSOIL, FERTILIZER TYPE B, SPECIAL LOW MAINTENANCE SEED MIX
(3) CONCRETE MEDIAN SLOPED NOSE
(5) CONCRETE CURB & GUTTER 30-INCH TYPE D
(6) CONCRETE CURB & GUTTER 30-INCH TYPE D (REVERSE)
(7) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D
(8) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D (REVERSE)
(9) TYPE 5 CURB RAMP
(10) CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T
(11) CONCRETE ROUNDABOUT TRUCK APRON 12-INCH
(12) CONCRETE CURB TYPE A
(13) SEE LANDSCAPING PLAN FOR CENTRAL ISLAND TREATMENTS
(14) CONCRETE ROUNDABOUT TRUCK APRON 8-INCH
(15) COLORED CONCRETE SIDEWALK 5-INCH
(16) SEE ROUNDABOUT PLANTING PLAN
(17) CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE G
(18) CONCRETE CURB AND GUTTER 30-INCH TYPE K
CURB AND GUTTER TYPE TRANSITION

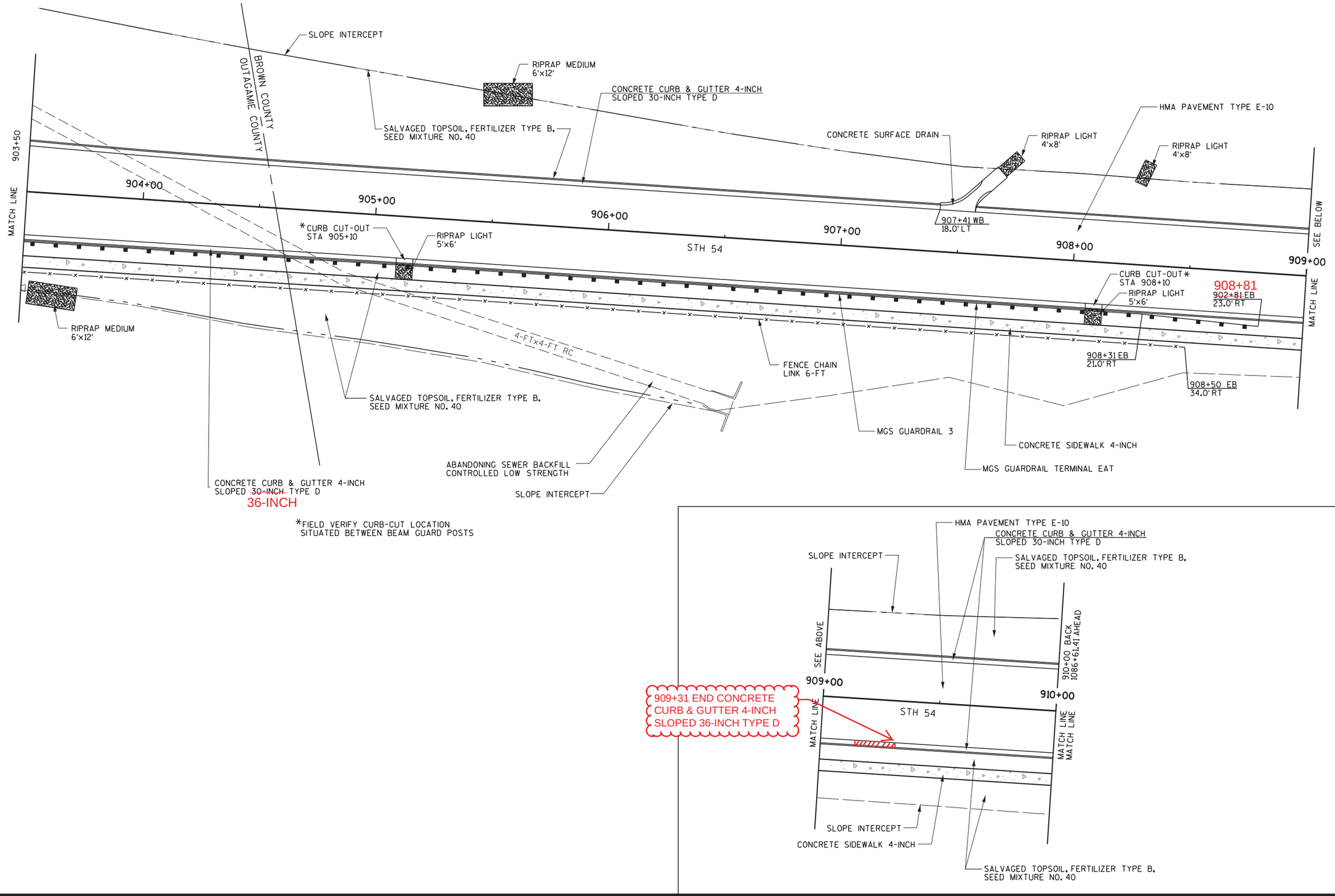
(4) PEDESTRIAN CURB

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN DETAILS	SHEET 37	E

2



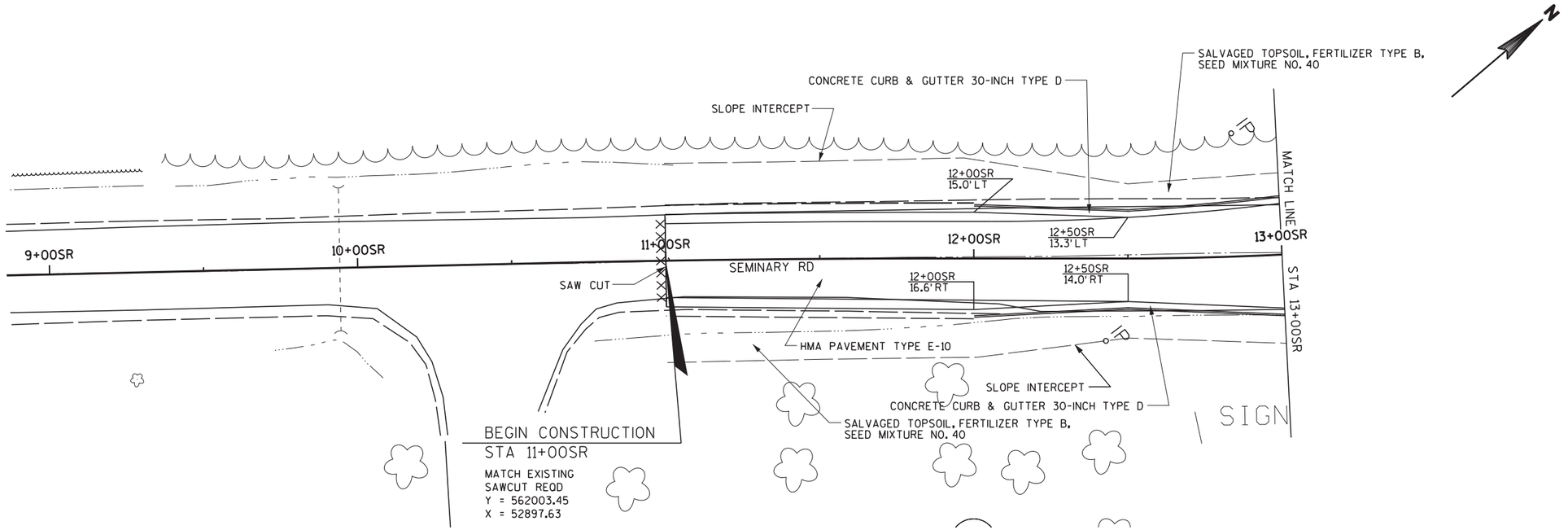
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN DETAILS	SHEET 38	E

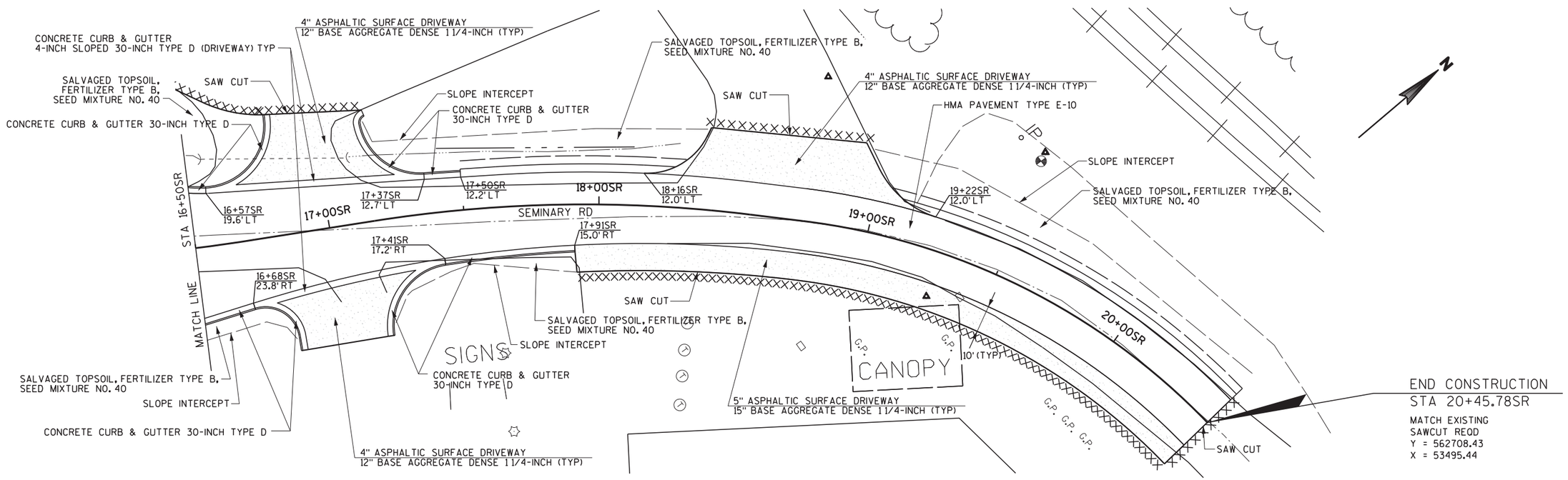


PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN DETAILS	SHEET	E

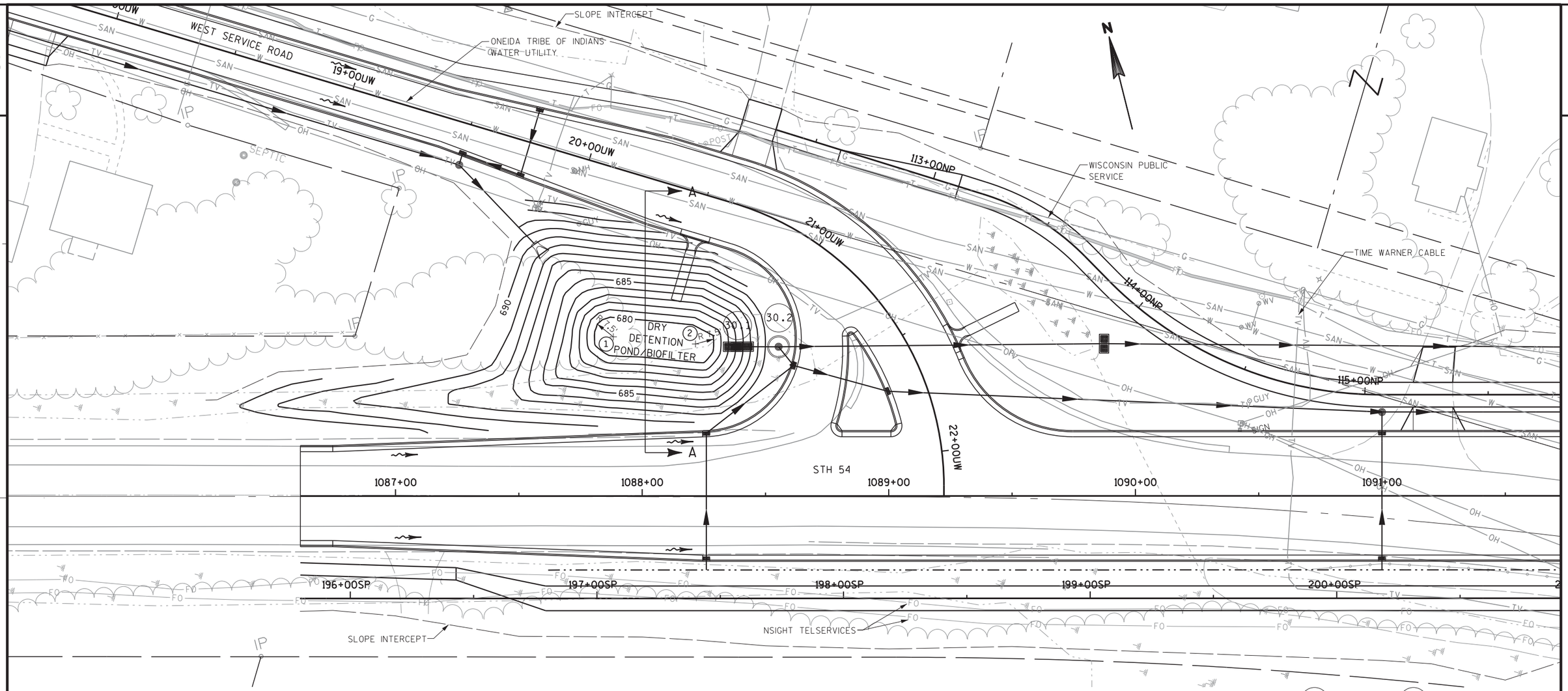
FILE NAME : 021204_pd.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 40.0000 sf/in. WISDOT/CADDS SHEET

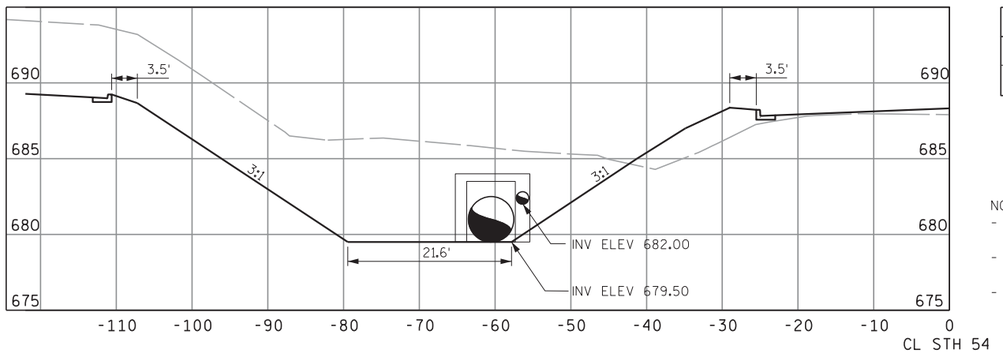
2





PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN DETAILS	SHEET 40	E



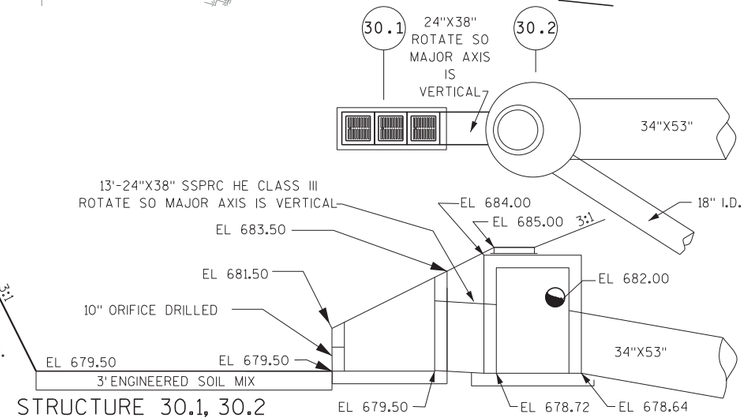


DETENTION POND SECTION A-A

DETENTION POND CONSTRUCTION POINTS

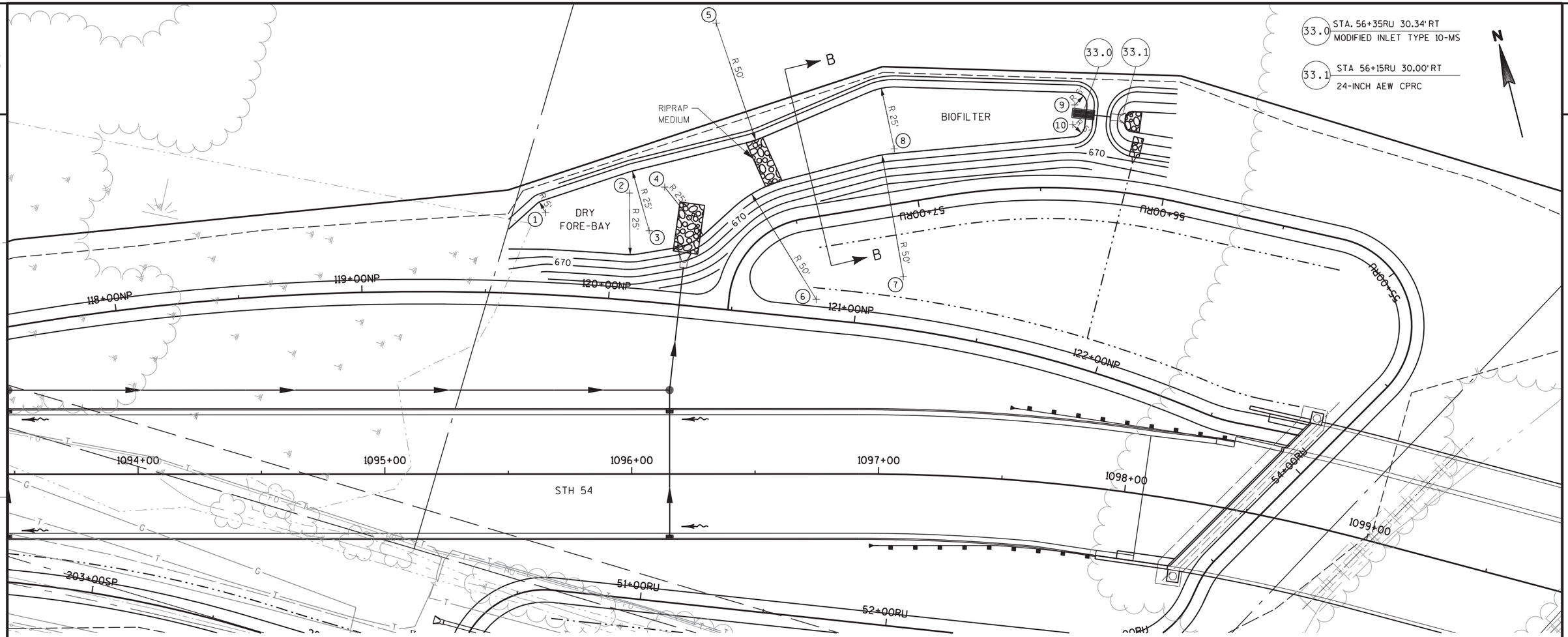
POINT NO.	STATION	DESCRIPTION	ELEV
(1)	1087+88.3, 64.5'LT	RADIUS POINT 7.5'R	679.5
(2)	1088+21.6, 61.7'LT	RADIUS POINT 7.5'R	679.5

NOTES:
- WEST DETENTION POND MAY BE USED AS AN EROSION CONTROL DEVICE TO SETTLE SEDIMENT DURING CONSTRUCTION.
- WEST DETENTION POND SHALL BE CLEANED OUT AND RE-GRADED BEFORE FINAL SEEDING AND STABILIZATION.
- CONTRACTOR SHALL PROTECT BIOFILTER FOR INFILTRATION PURPOSES. BIOFILTER SHOULD NOT BE TRACKED ON OR COMPACTED DURING CONSTRUCTION.



STRUCTURE 30.1, 30.2

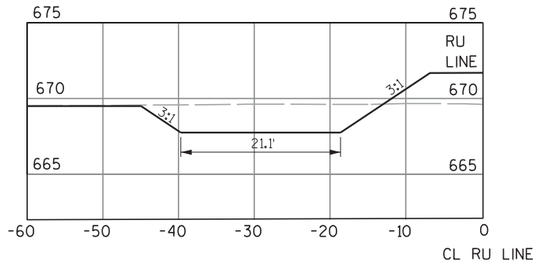
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CONSTRUCTION DETAIL - WEST DETENTION POND	SHEET 41	E



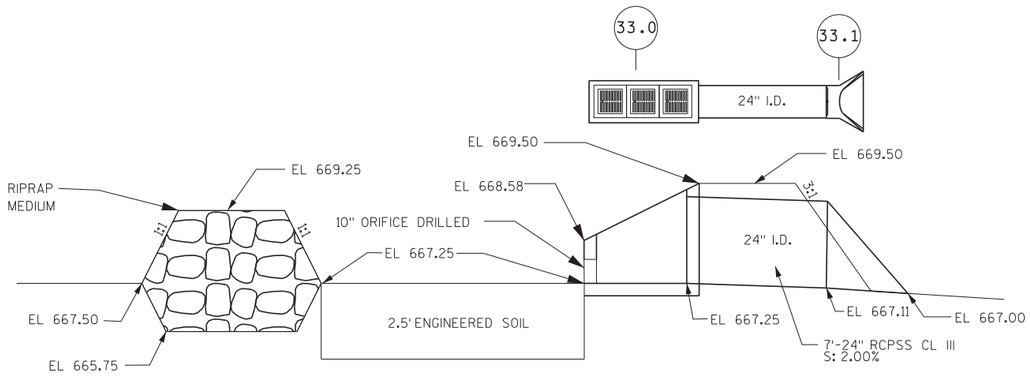
DETENTION POND CONSTRUCTION POINTS

POINT NO.	STATION	DESCRIPTION	ELEV
(1)	1195+65.2, 105.8'LT	RADIUS POINT 5'R	668.00
(2)	1195+99.1, 113.8'LT	RADIUS POINT 25'R	668.00
(3)	1196+07.1, 98.6'LT	RADIUS POINT 25'R	668.00
(4)	1196+13.4, 116.2'LT	RADIUS POINT 25'R	668.00
(5)	1196+34.3, 182.6'LT	RADIUS POINT 50'R	667.75
(6)	1196+74.8, 70.7'LT	RADIUS POINT 50'R	667.75
(7)	1197+04.4, 80.1'LT	RADIUS POINT 50'R	667.50
(8)	1197+08.5, 131.8'LT	RADIUS POINT 25'R	667.50
(9)	1197+65.6, 153.4'LT	RADIUS POINT 5'R	667.25
(10)	1197+65.5, 145.4'LT	RADIUS POINT 5'R	667.25

NOTES:
- NORTH DETENTION POND FOREBAY MAY BE USED AS AN EROSION CONTROL DEVICE TO SETTLE SEDIMENT DURING CONSTRUCTION.
- NORTH DETENTION POND SHALL BE CLEANED OUT AND RE-GRADED BEFORE FINAL SEEDING AND STABILIZATION.
- CONTRACTOR SHALL PROTECT BIOFILTER FOR INFILTRATION PURPOSES. BIOFILTER SHOULD NOT BE TRACKED ON OR COMPACTED DURING CONSTRUCTION.

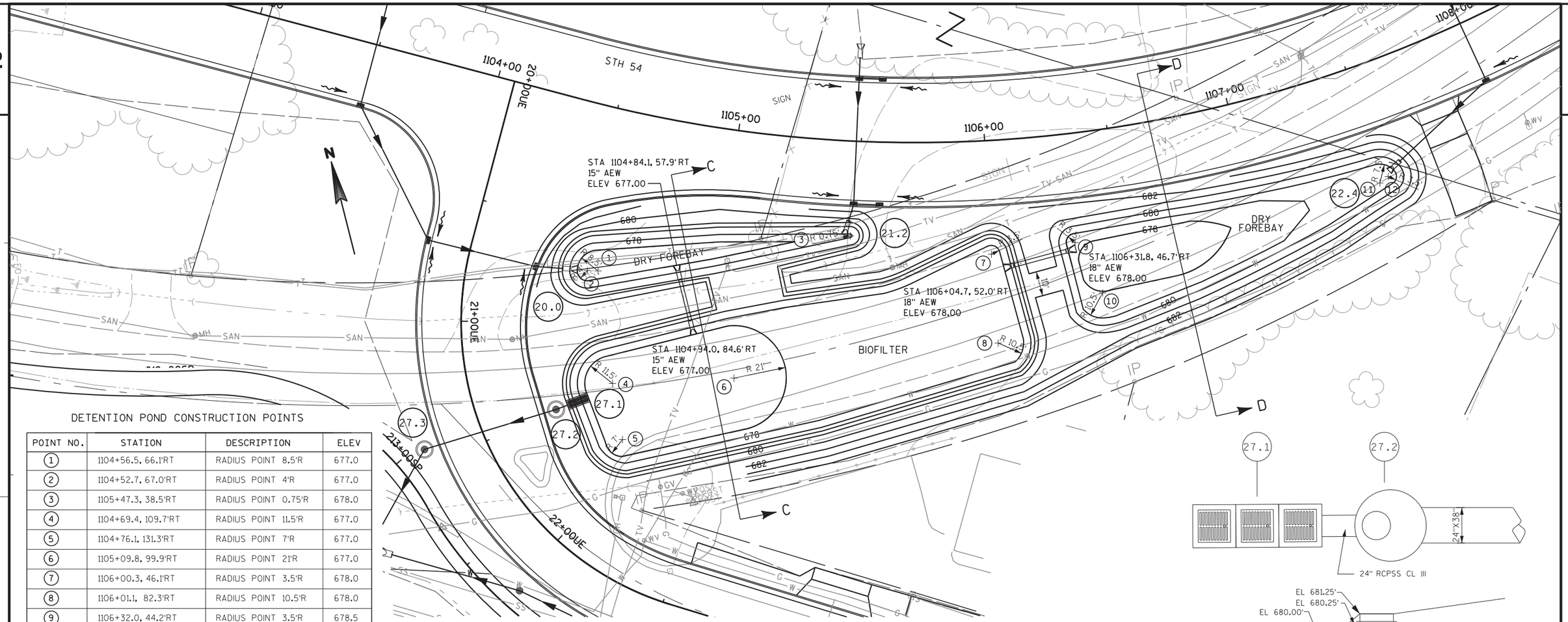


DETENTION POND SECTION B-B



STRUCTURE 33.0 AND 33.1

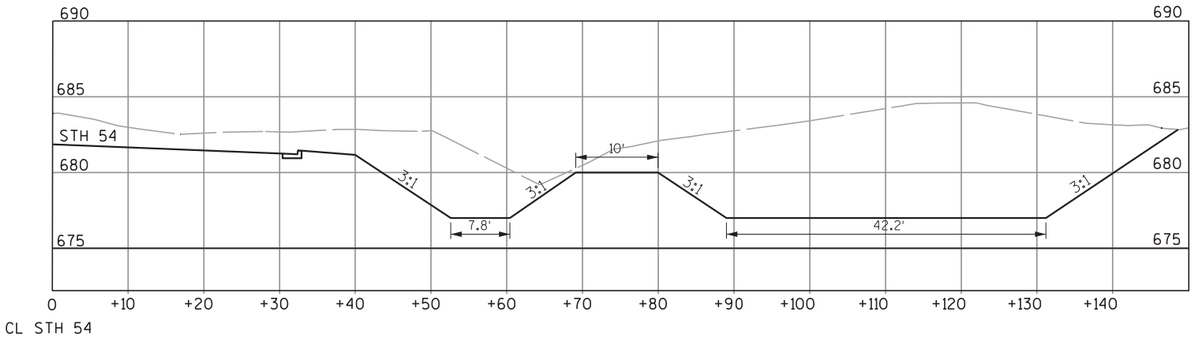
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CONSTRUCTION DETAIL - NORTH DETENTION POND	SHEET 42	E



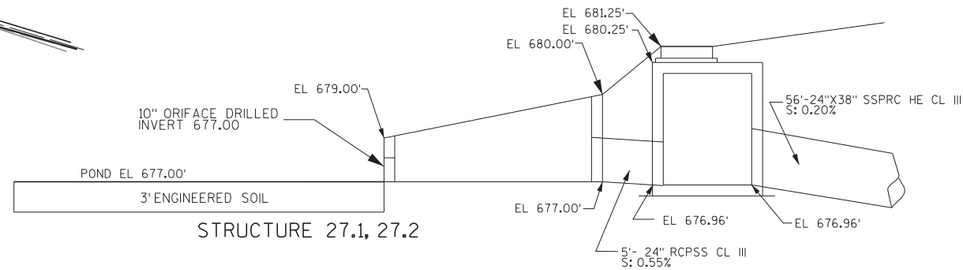
DETENTION POND CONSTRUCTION POINTS

POINT NO.	STATION	DESCRIPTION	ELEV
(1)	1104+56.5, 66.1'RT	RADIUS POINT 8.5'R	677.0
(2)	1104+52.7, 67.0'RT	RADIUS POINT 4'R	677.0
(3)	1105+47.3, 38.5'RT	RADIUS POINT 0.75'R	678.0
(4)	1104+69.4, 109.7'RT	RADIUS POINT 11.5'R	677.0
(5)	1104+76.1, 131.3'RT	RADIUS POINT 7'R	677.0
(6)	1105+09.8, 99.9'RT	RADIUS POINT 21'R	677.0
(7)	1106+00.3, 46.1'RT	RADIUS POINT 3.5'R	678.0
(8)	1106+01.1, 82.3'RT	RADIUS POINT 10.5'R	678.0
(9)	1106+32.0, 44.2'RT	RADIUS POINT 3.5'R	678.5
(10)	1106+39.7, 65.8'RT	RADIUS POINT 10.5'R	678.0
(11)	1107+48.1, 48.1'RT	RADIUS POINT 7.5'R	679.5
(12)	1107+51.8, 46.7'RT	RADIUS POINT 3.5'R	679.5

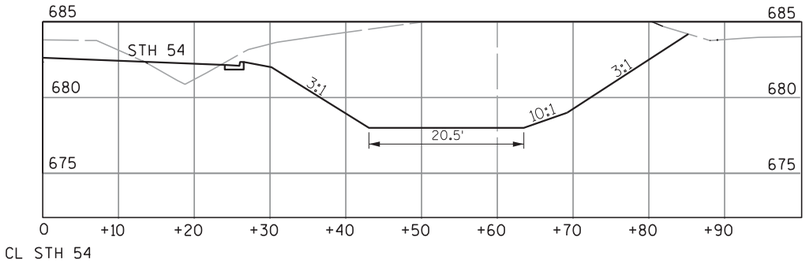
NOTES:
- EAST DETENTION POND FOREBAYS MAY BE USED AS AN EROSION CONTROL DEVICE TO SETTLE SEDIMENT DURING CONSTRUCTION.
- EAST DETENTION POND SHALL BE CLEANED OUT AND RE-GRADED BEFORE FINAL SEEDING AND STABILIZATION.
- CONTRACTOR SHALL PROTECT BIOFILTER FOR INFILTRATION PURPOSES. BIOFILTER SHOULD NOT BE TRACKED ON OR COMPACTED DURING CONSTRUCTION.



DETENTION POND SECTION C-C



STRUCTURE 27.1, 27.2



DETENTION POND SECTION D-D

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CONSTRUCTION DETAIL - EAST DETENTION POND	SHEET 43	E

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- TURBIDITY BARRIERS
- SLOPE INTERCEPT
- CONC — CONCRETE SURFACE DRAIN
- INLET PROTECTION TYPE C UNLESS OTHERWISE NOTED
- ROCK BAGS DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SOD

N

SLOPE INTERCEPT

RIPRAP LIGHT 6'x12'

RIPRAP LIGHT 4'x8'

741.80

741.68

742.36

742.51

742.38

742.35

743.23

SLOPE INTERCEPT

ROCK BAGS STA 890+00, 62' LT

SIGN

R/W

742.05

742.05

742.22

RIPRAP LIGHT 4'x8'

CONC

CONC

R/W

743.53

886+00

887+00

888+00

889+00

890+00

891+00

892+00

STA 892+00

MATCH LINE

743.02

742.22

STH 54

CONC

ROCK BAGS STA 886+50, 46' RT

R/W

RIPRAP MEDIUM 12'x6'

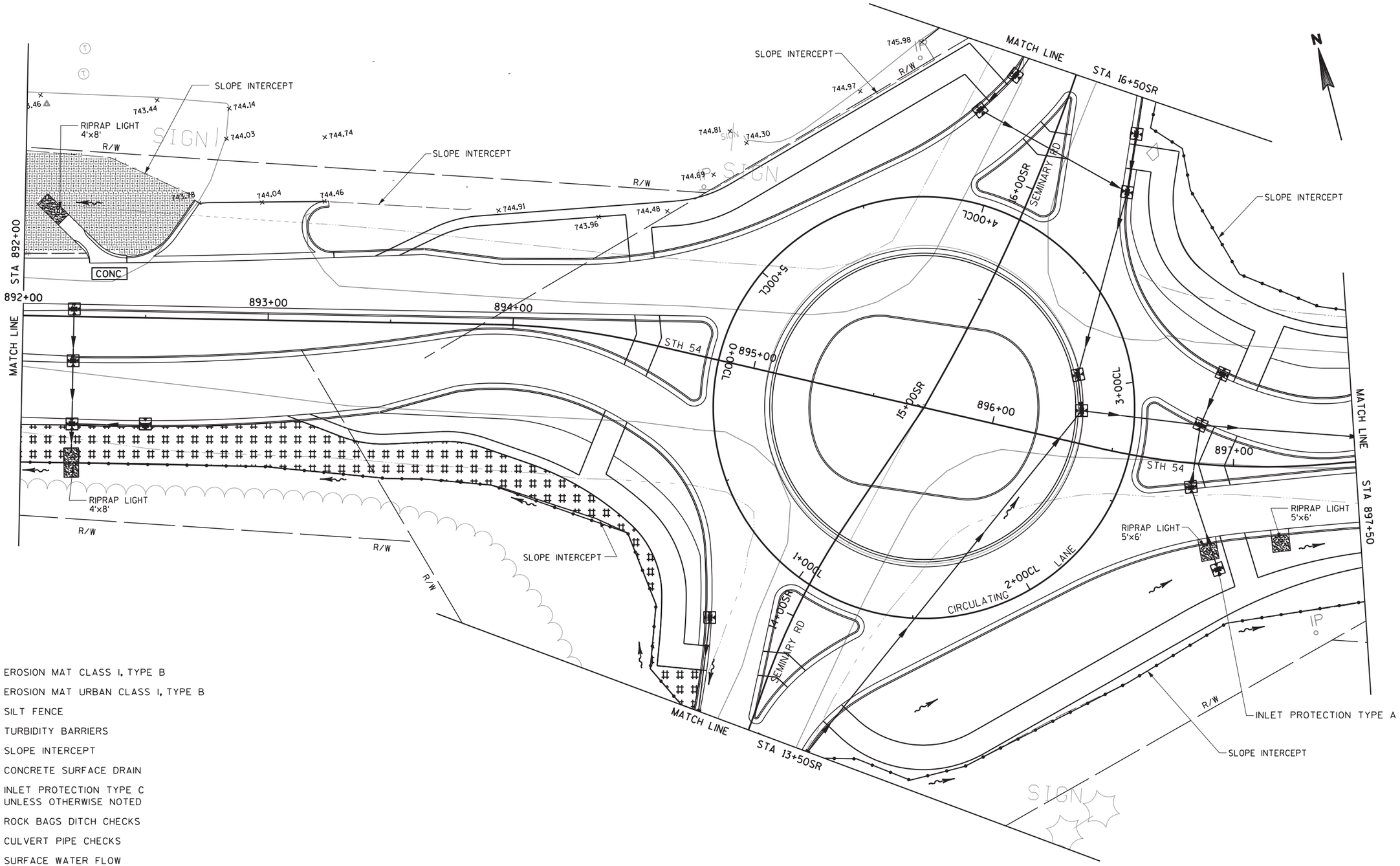
SLOPE INTERCEPT

RIPRAP LIGHT 4'x8'

R/W

ROCK BAGS STA 891+00, 59' RT

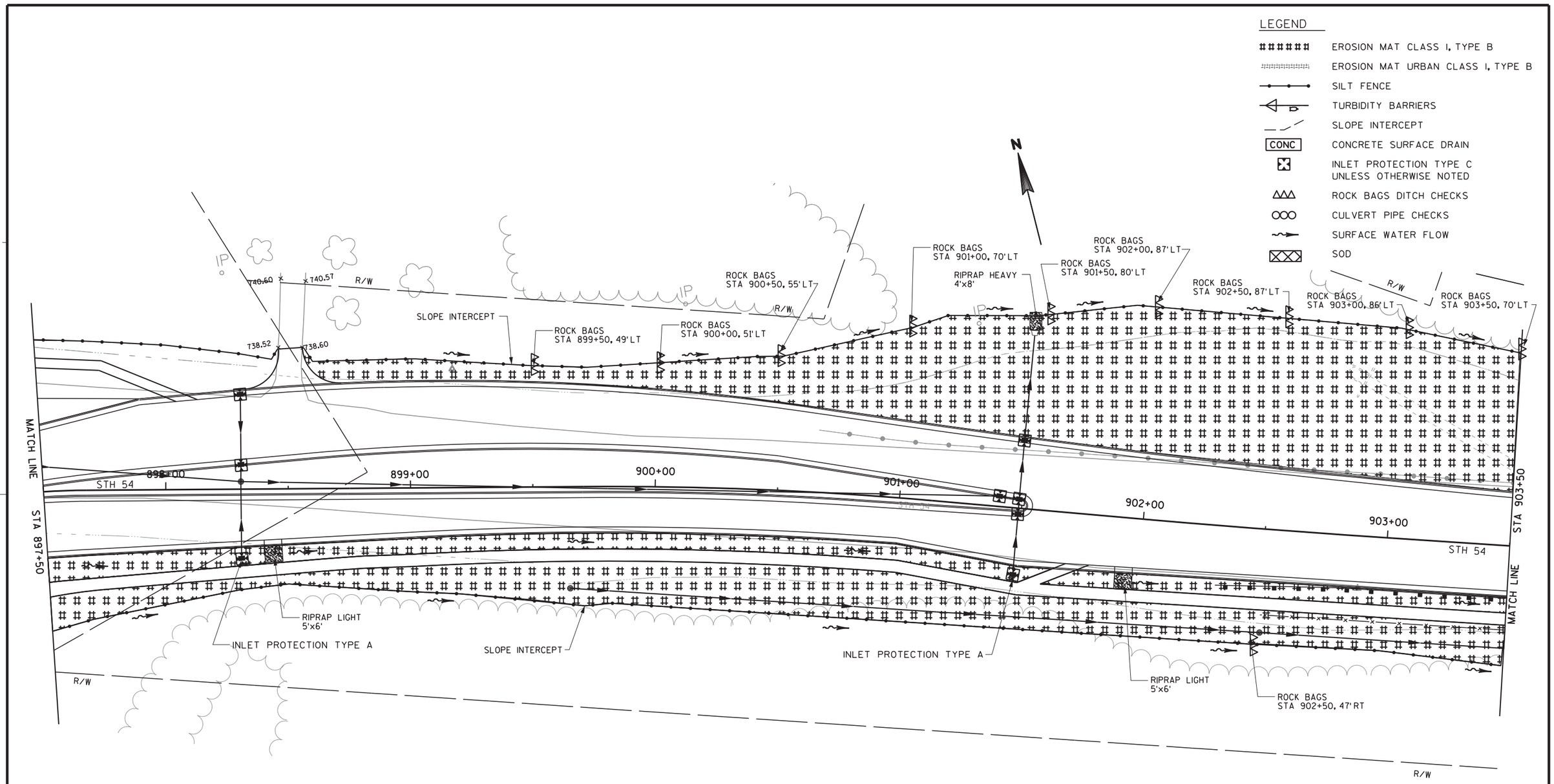
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EROSION CONTROL PLANS	SHEET 44	E



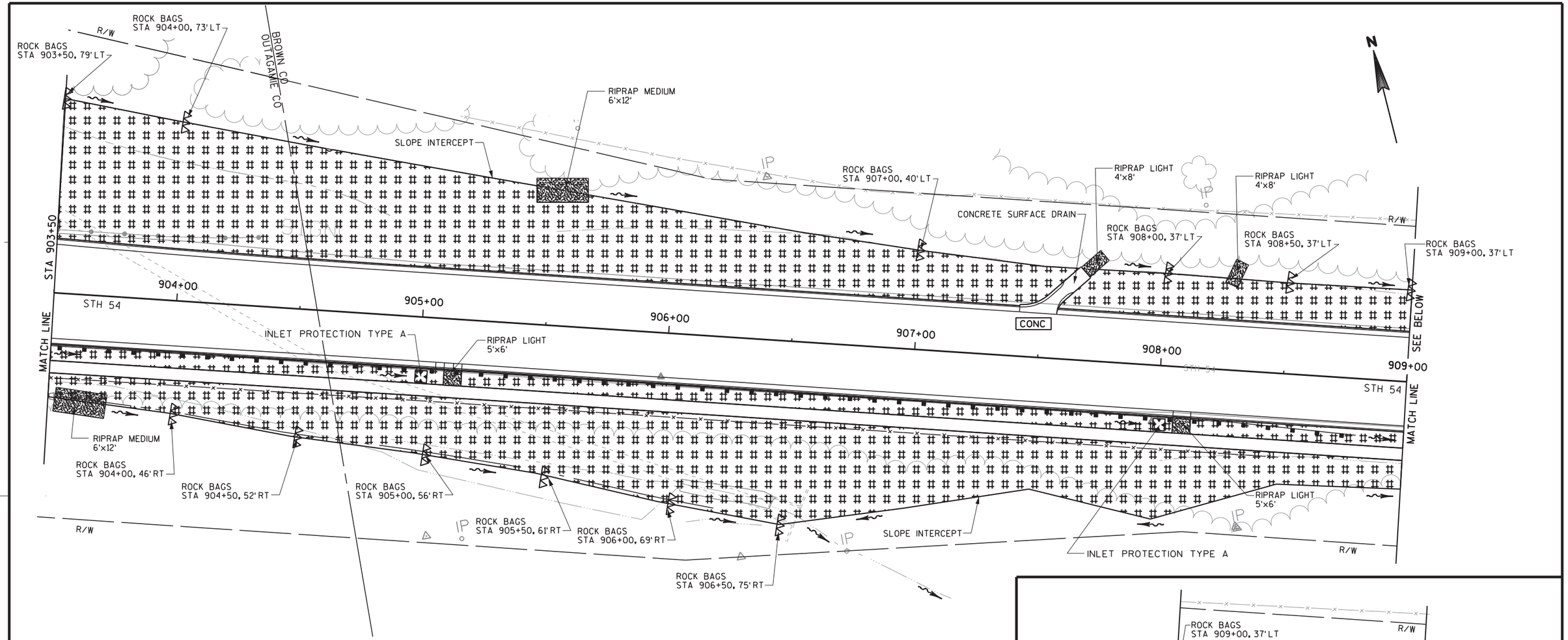
LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- TURBIDITY BARRIERS
- SLOPE INTERCEPT
- CONC — CONCRETE SURFACE DRAIN
- INLET PROTECTION TYPE C UNLESS OTHERWISE NOTED
- ROCK BAGS DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SOD

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EROSION CONTROL PLANS	SHEET 45	E

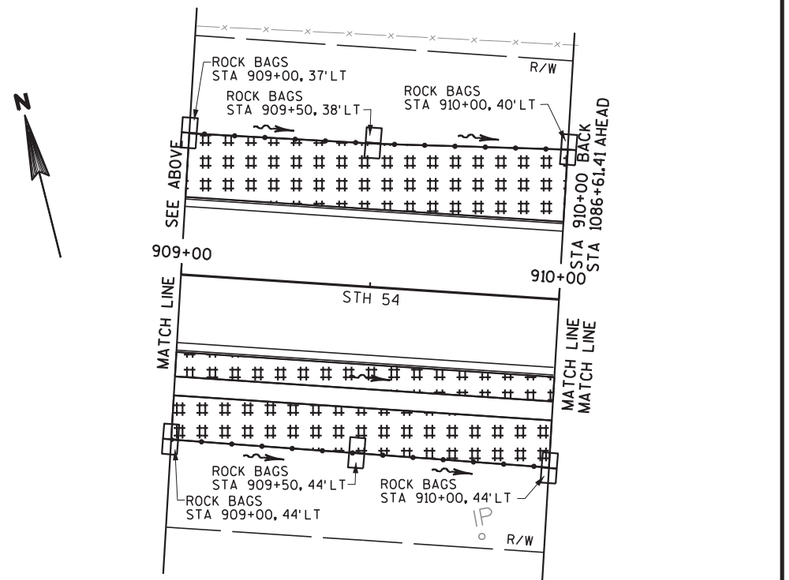


PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EROSION CONTROL PLANS	SHEET 46	E



LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- TURBIDITY BARRIERS
- SLOPE INTERCEPT
- CONC — CONCRETE SURFACE DRAIN
- INLET PROTECTION TYPE C UNLESS OTHERWISE NOTED
- ROCK BAGS DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SOD



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EROSION CONTROL PLANS	SHEET	E

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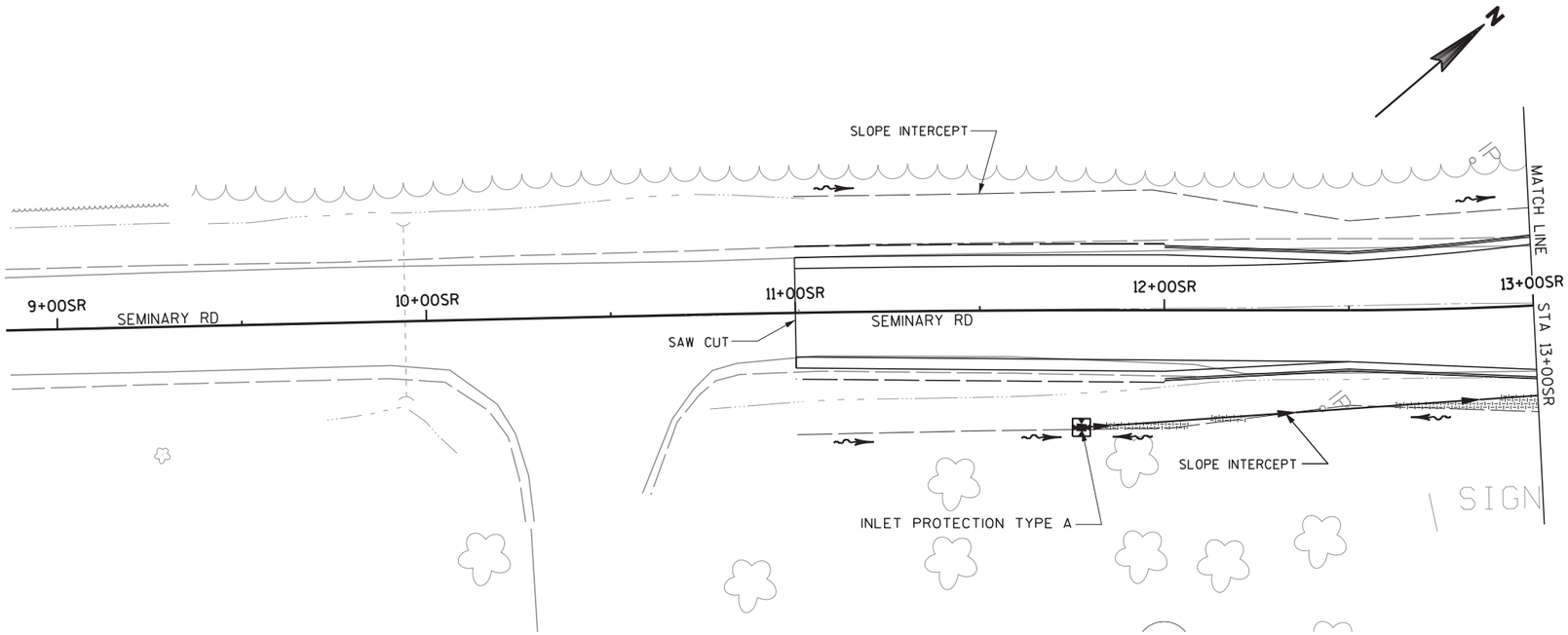
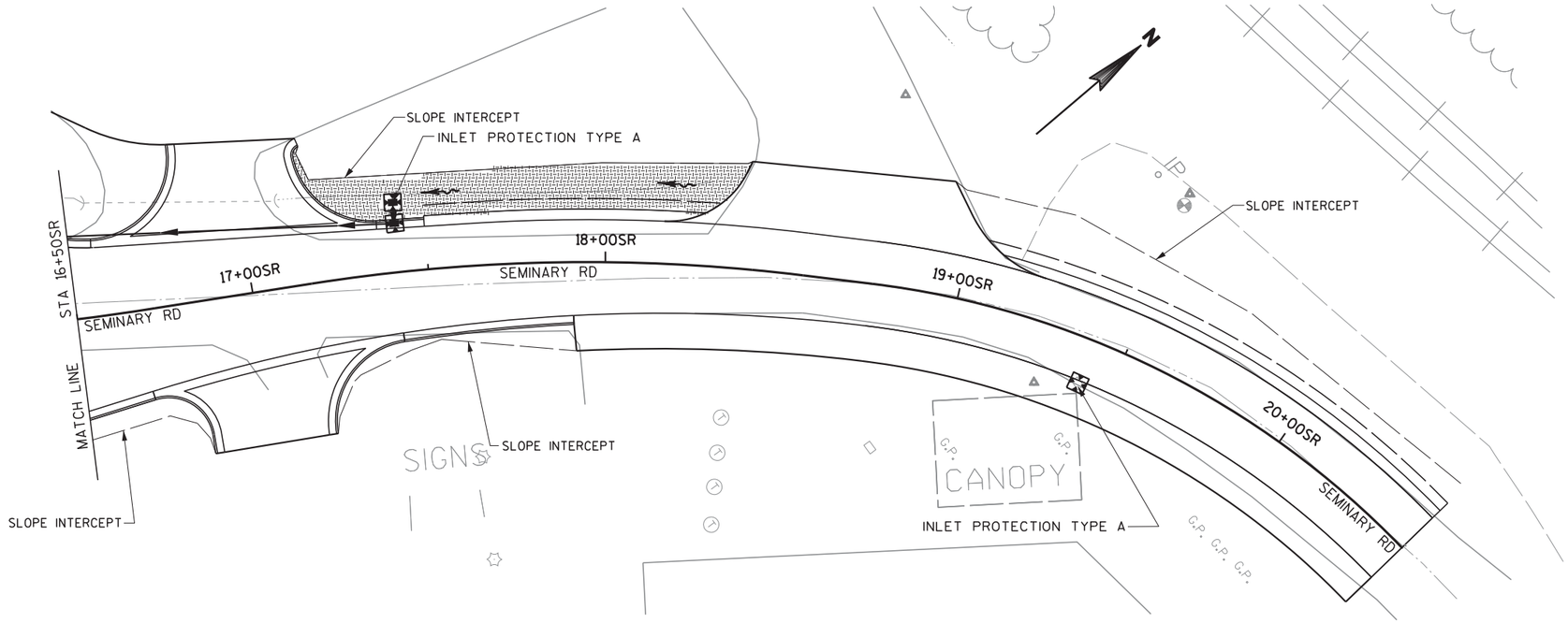


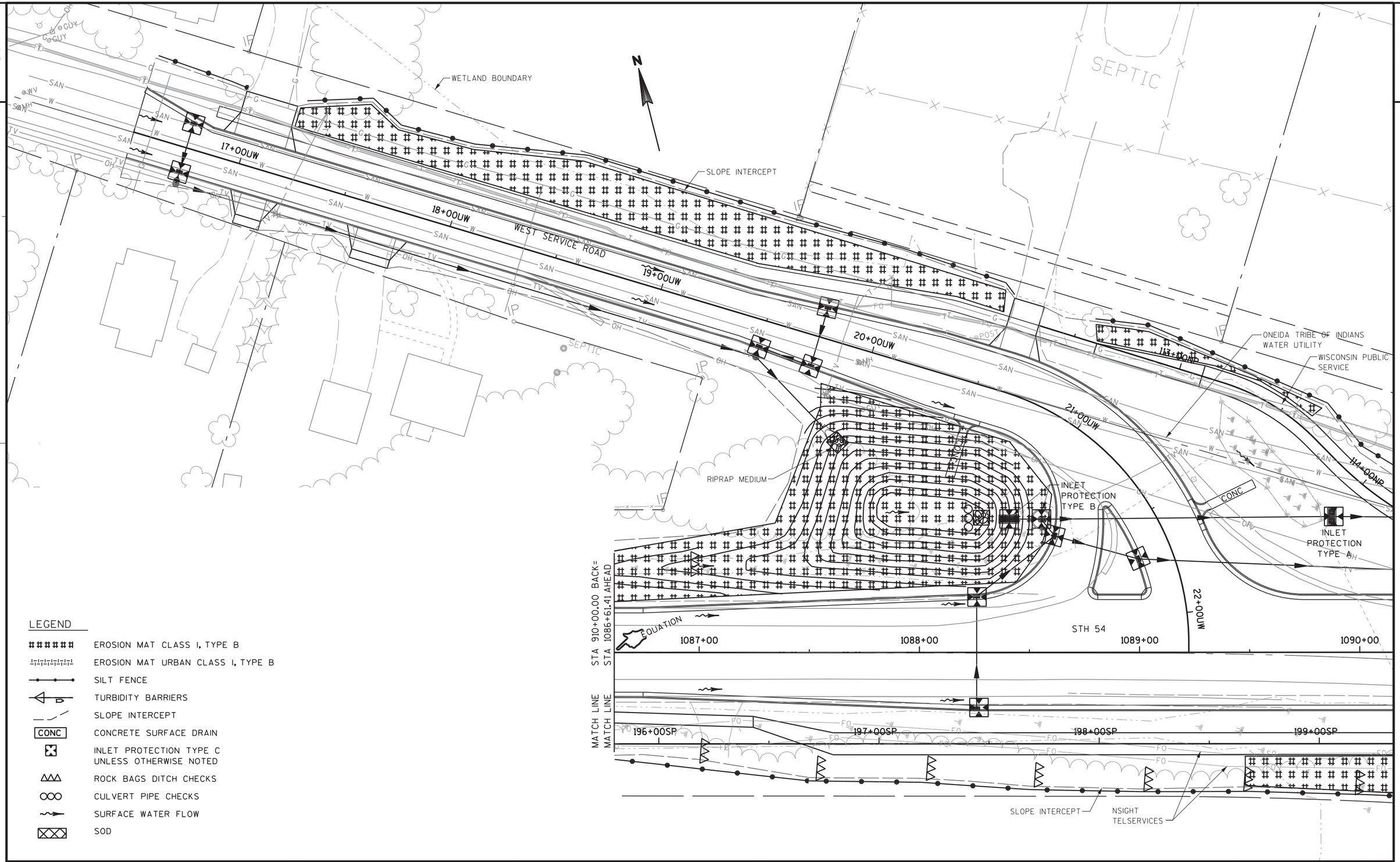


LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- TURBIDITY BARRIERS
- SLOPE INTERCEPT
- CONC — CONCRETE SURFACE DRAIN
- INLET PROTECTION
- ROCK BAGS DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SOD

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EROSION CONTROL PLANS	SHEET 48	E

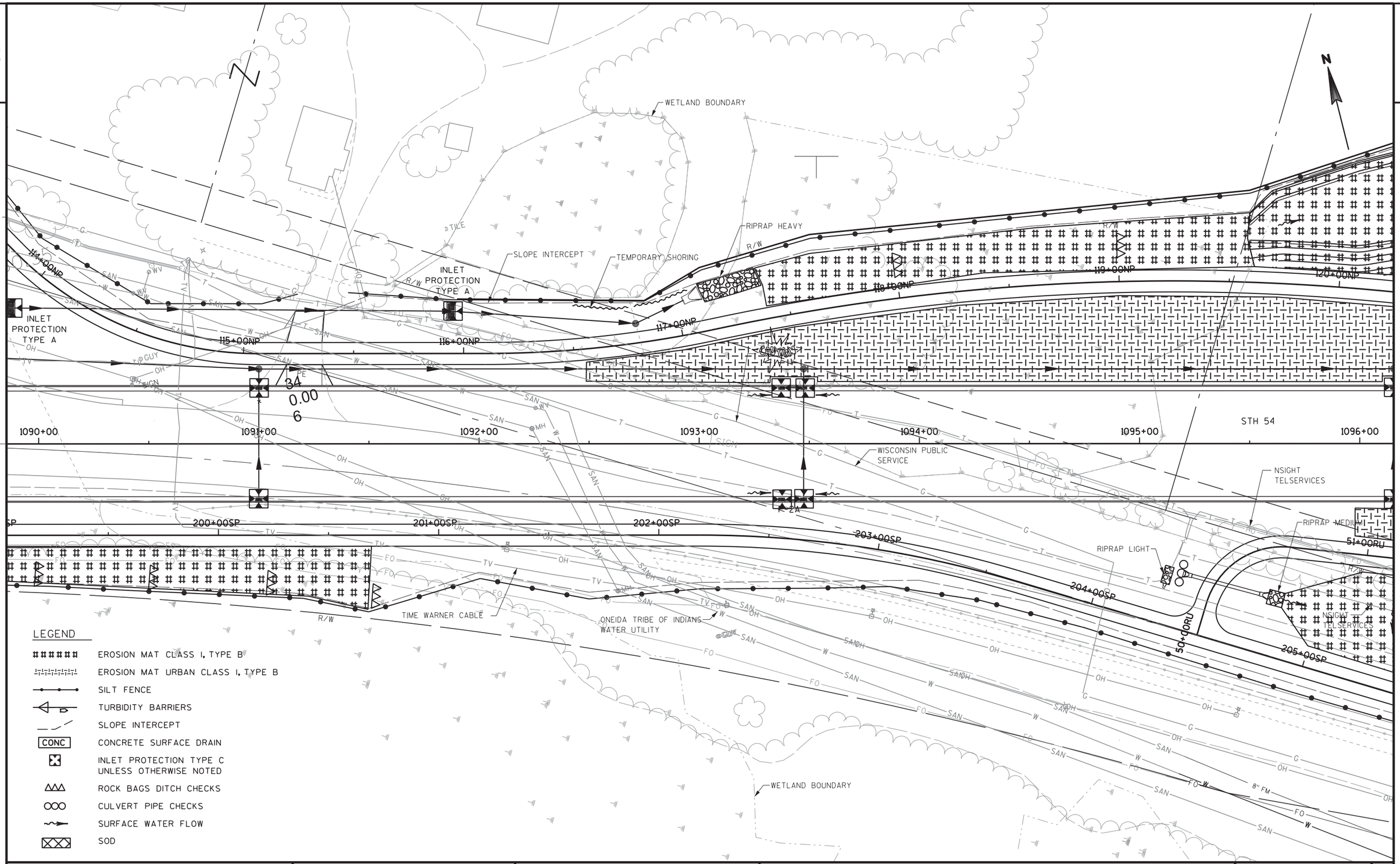
2



LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- TURBIDITY BARRIERS
- SLOPE INTERCEPT
- CONC — CONCRETE SURFACE DRAIN
- INLET PROTECTION TYPE C UNLESS OTHERWISE NOTED
- ROCK BAGS DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SOD

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EROSION CONTROL PLANS	SHEET 49	E



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EROSION CONTROL PLANS	SHEET 50	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\022002_ec.dgn
PLOT DATE : 1/9/2012
PLOT BY : 11721as
PLOT NAME :
PLOT SCALE : 40.000000 ' / in.
WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- TURBIDITY BARRIERS
- SLOPE INTERCEPT
- CONC — CONCRETE SURFACE DRAIN
- INLET PROTECTION TYPE C UNLESS OTHERWISE NOTED
- ROCK BAGS DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SOD

N

INLET PROTECTION TYPE B

R/W

RIPRAP MEDIUM

RIPRAP LIGHT

SLOPE INTERCEPT

LINEAR BASIN

RIPRAP (SEE POND DETAIL)

RIPRAP MEDIUM

56+00RU

55+00RU

54+00RU

53+00RU

52+00RU

51+00RU

121+00NP

122+00NP

PIPE UNDERDRAIN WRAPPED WITH FABRIC

WETLAND BOUNDARY

1098+00

1097+00

1096+00

205+00SP

206+00SP

207+00SP

DUCK CREEK

STH 54

1099+00

1100+00

1101+00

1102+00

RIPRAP HEAVY

2' SOD LAWN BETWEEN TRAIL AND RIPRAP

74+00RE

75+00RE

76+00RE

MH

SAN

W

WETLAND BOUNDARY

RIPRAP LIGHT

OH

T

EXISTING STRUCTURE B-5-728

WISCONSIN PUBLIC SERVICE

RIPRAP MEDIUM

43+00AS

ARTLEY STREET

ONEIDA TRIBE OF INDIANS WATER UTILITY

NSIGHT TELSERVICES

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EROSION CONTROL PLANS	SHEET 51	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\022003_ec.dgn PLOT DATE : 1/9/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.000000 ' / in.

WISDOT/CADDS SHEET 42

2

81+00EP
82+00EP
83+00EP
SLOPE INTERCEPT
R/W
RIPRAP LIGHT
RIPRAP LIGHT
PC 1104+34.36
1102+00
1103+00
STH 54
1104+00
20+00UE
1105+00
SIGN
1106+00
1107+00
1108+00
NSIGHT TELSERVICES
TIME WARNER CABLE
OH
RIPRAP MEDIUM
RUINS
RIPRAP MEDIUM
21+00UE
INLET PROTECTION TYPE B
ONEIDA TRIBE OF INDIANS WATER UTILITY
WISCONSIN PUBLIC SERVICE
212+00SP
213+00SP
211+00SP
22+00UE
23+00UE
CTH U
24+00UE
RIPRAP MEDIUM
INLET PROTECTION TYPE A

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- TURBIDITY BARRIERS
- SLOPE INTERCEPT
- CONC — CONCRETE SURFACE DRAIN
- INLET PROTECTION TYPE C UNLESS OTHERWISE NOTED
- ROCK BAGS DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SOD

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EROSION CONTROL PLANS	SHEET 52	E

2

2

N

81+00EP

82+00EP

83+00EP

SLOPE INTERCEPT

R/W

RIPRAP
LIGHT

RIPRAP
LIGHT

PC 104+34.36

STH 54

1102+00

1103+00

1104+00

20+00UE

1105+00

1106+00

1107+00

1108+00

SIGN

RUINS

RIPRAP
MEDIUM

NSIGHT
TELSERVICES

TIME WARNER
CABLE

RIPRAP
MEDIUM

ONEIDA TRIBE
OF INDIANS
WATER UTILITY

WISCONSIN PUBLIC
SERVICE

21+00UE

INLET
PROTECTION
TYPE B

211+00SP

212+00SP

213+00SP

22+00UE

23+00UE

CTH U

24+00UE

RIPRAP
MEDIUM

INLET
PROTECTION
TYPE A

Addendum No. 2
ID 9210-11-71
Revised Sheet 52
March 5, 2012

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- TURBIDITY BARRIERS
- SLOPE INTERCEPT
- CONC — CONCRETE SURFACE DRAIN
- INLET PROTECTION TYPE C UNLESS OTHERWISE NOTED
- ROCK BAGS DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SOD

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EROSION CONTROL PLANS	SHEET 52A	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\022004_ec.dgn PLOT DATE : 2/20/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.000000 ' / in.

WISDOT/CADDS SHEET 42

2

LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- TURBIDITY BARRIERS
- SLOPE INTERCEPT
- CONC — CONCRETE SURFACE DRAIN
- INLET PROTECTION TYPE C UNLESS OTHERWISE NOTED
- ROCK BAGS DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SOD

N

1107+00

1108+00

1109+00

1110+00

1111+00

1112+00

1113+00

STH 54

PT 1111+00.74

PI 1112+00.00

PI 1112+97.91

RIPRAP MEDIUM

RIPRAP MEDIUM

NSIGHT TELSERVICES

TIME WARNER CABLE

R/W

CAUTION

ONEIDA TRIBE OF INDIANS WATER UTILITY

INLET PROTECTION TYPE A

WISCONSIN PUBLIC SERVICE

SLOPE INTERCEPT

TEMPORARY SHORING

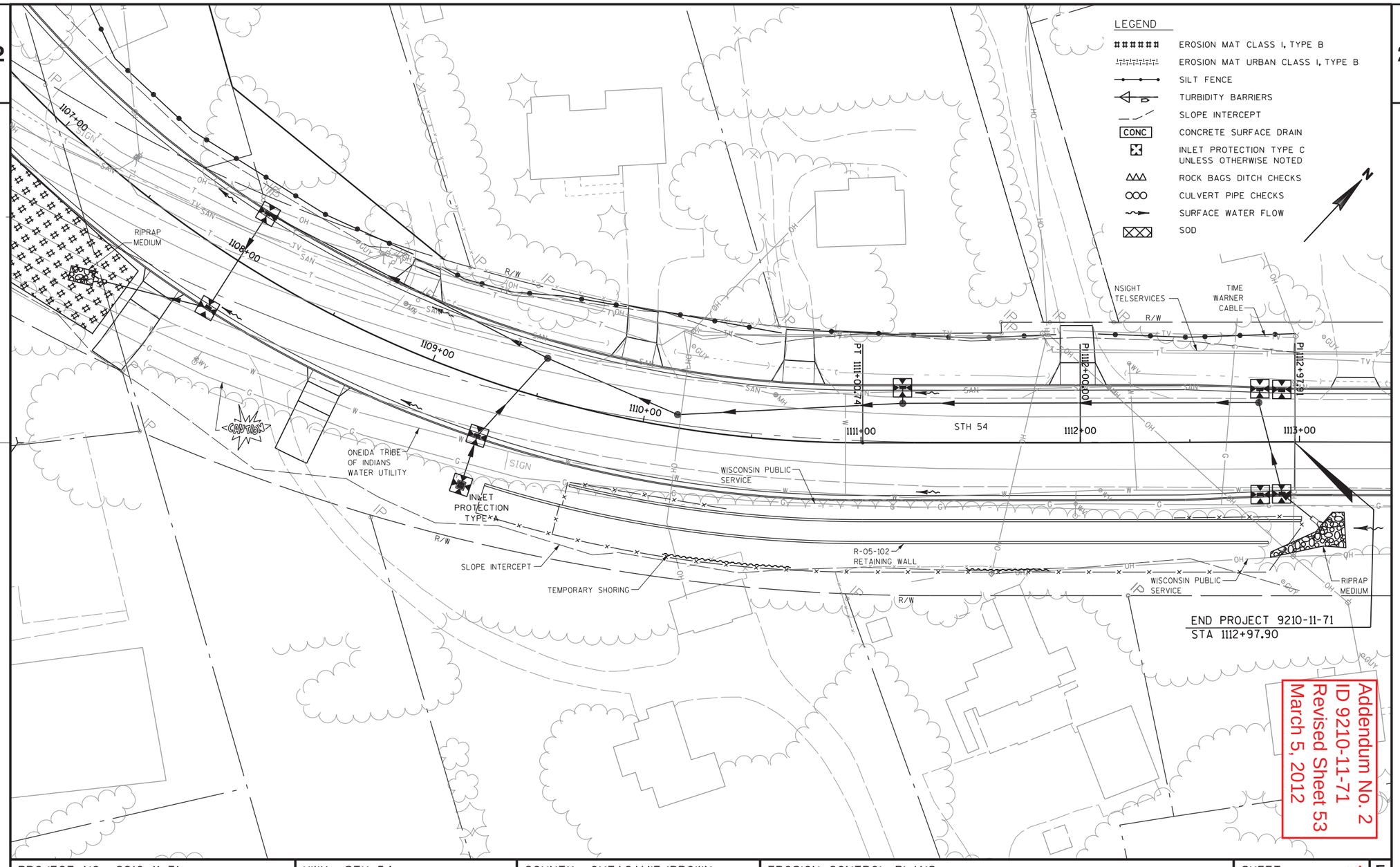
R-05-102 RETAINING WALL

WISCONSIN PUBLIC SERVICE

RIPRAP MEDIUM

END PROJECT 9210-11-71
STA 1112+97.90

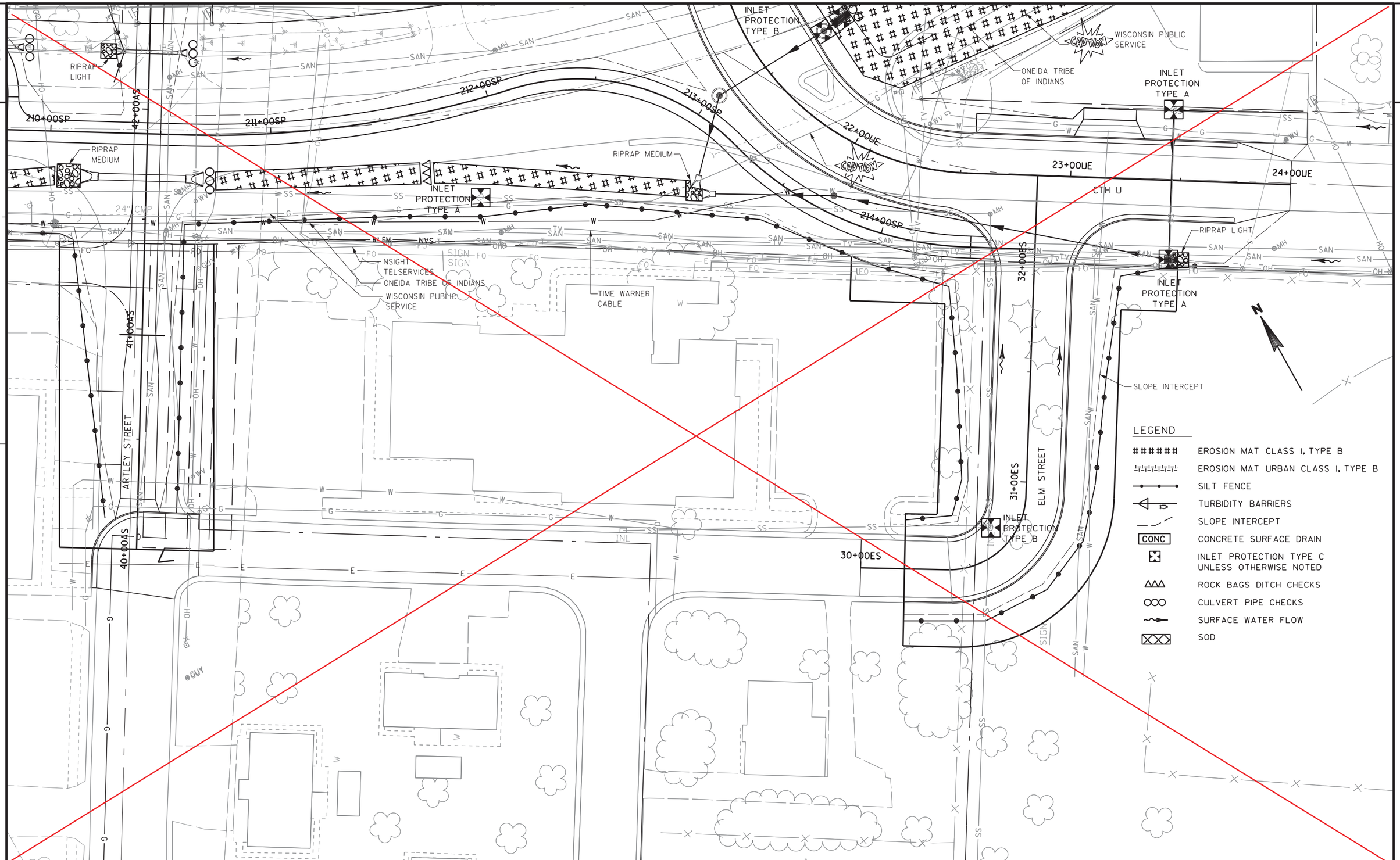
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EROSION CONTROL PLANS	SHEET 53	E



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EROSION CONTROL PLANS	SHEET 53 A	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\022005_ec.dgn PLOT DATE : 2/29/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.000000 ' / in.

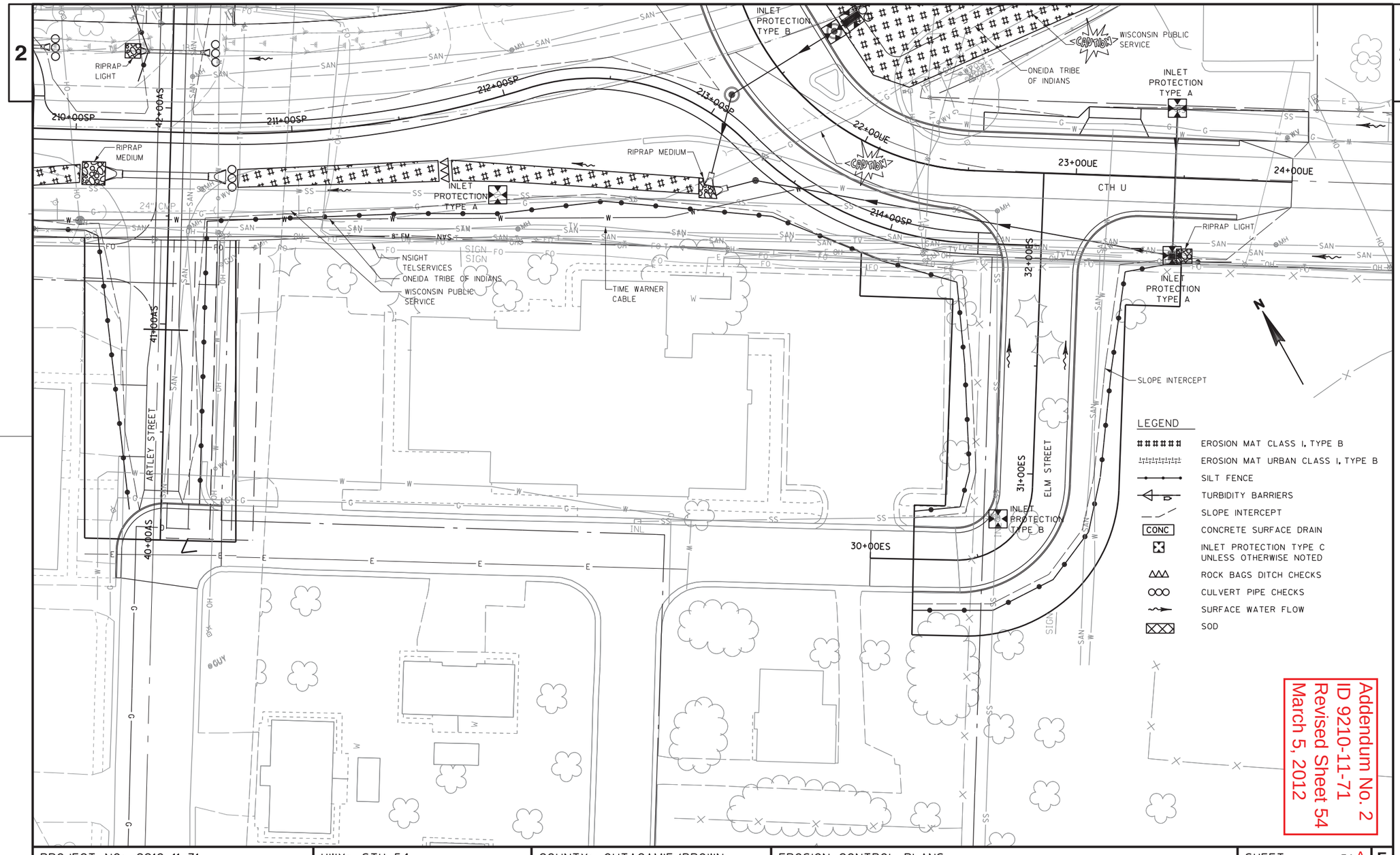
2



LEGEND

- EROSION MAT CLASS I, TYPE B
- EROSION MAT URBAN CLASS I, TYPE B
- SILT FENCE
- TURBIDITY BARRIERS
- SLOPE INTERCEPT
- CONC — CONCRETE SURFACE DRAIN
- INLET PROTECTION TYPE C UNLESS OTHERWISE NOTED
- ROCK BAGS DITCH CHECKS
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SOD

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EROSION CONTROL PLANS	SHEET 54	E

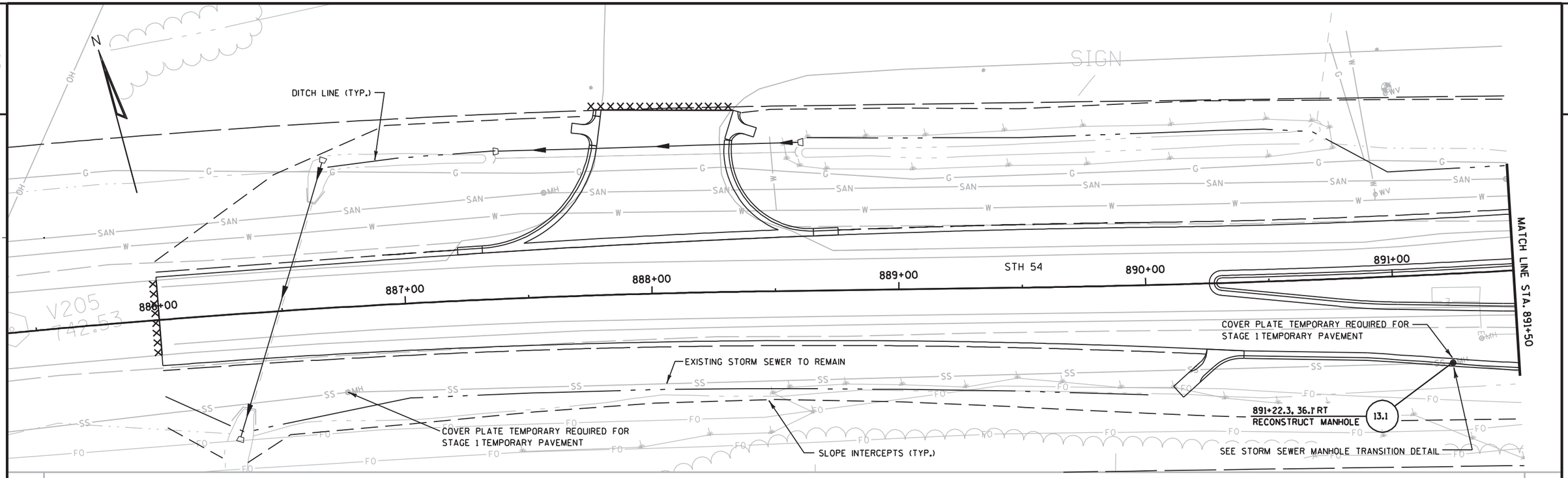


Addendum No. 2
ID 9210-11-71
Revised Sheet 54
March 5, 2012

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EROSION CONTROL PLANS	SHEET 54 A	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\022006_ec.dgn PLOT DATE : 2/20/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.000000 ' / in.

WISDOT/CADDS SHEET 42



NOTES:

1) STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.

2) PROPOSED TOP OF STRUCTURE (TOS) ELEVATIONS = TOS = RIM ELEVATIONS - CASTING HEIGHT - 6" ADJUSTING RINGS.

3) PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED

892+37 45'LT
12" RCCP AEW
FLOW LINE ELEV. 740.01

893+40, 39'LT TYPE 8 INLET
RIM ELEV. 743.70
INVERT ELEV. 740.76

105 LF @ 0.5%
12" RCCP CLASS III

44 LF OF 6" PIPE UNDERDRAIN CONNECTING TO CANOPY DRAIN

1.1 892+20.0, 3.6'LT TYPE 3-HS INLET

1.2 892+20.0, 17.5'RT TYPE 3-HS INLET

1.3 892+50.0, 43.3'RT TYPE 3-H INLET

1.4 892+20.0, 55.0'RT 12" ENDWALL

1.0 892+20.0, 43.1'RT TYPE 1-HS MANHOLE

4.1 896+28.6, 27.6'LT TYPE 1-T MANHOLE

4.0 896+33.4, 13.7'LT TYPE 3-T MANHOLE

14.1 896+26.6, 62.3'RT RECONSTRUCT MANHOLE

5.0 896+84.5, 16.4'LT TYPE 3-H INLET

5.1 896+95.4, 41.7'RT TYPE 8-MS INLET

5.2 896+82.8, 9.2'RT TYPE 3-H INLET

5.3 896+92.2, 37.9'LT TYPE 3-H INLET

N

DITCH LINE (TYP.)

SLOPE INTERCEPTS (TYP.)

SAND BAG INLETS UNTIL STAGE 4

EXISTING STORM SEWER TO REMAIN

COVER PLATE TEMPORARY REQUIRED FOR STAGE 1 TEMPORARY PAVEMENT

COVER PLATE TEMPORARY REQUIRED FOR STAGE 2 TEMPORARY PAVEMENT

MATCH LINE STA. 891+50

MATCH LINE STA. 897+50

MATCH LINE STA. 16+00

MATCH LINE STA. 14+50

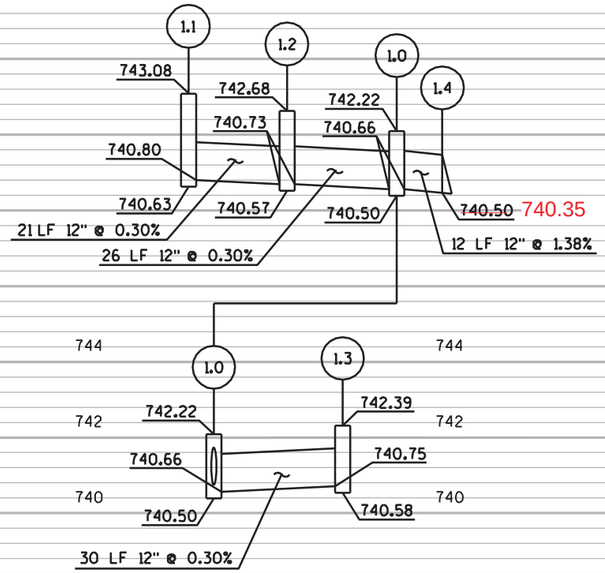
STH 54

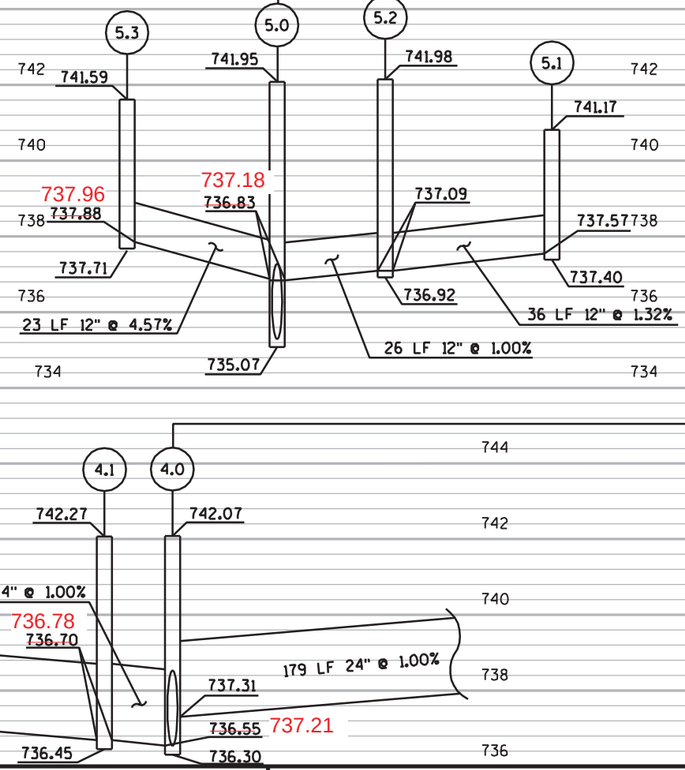
S.T.H. 54

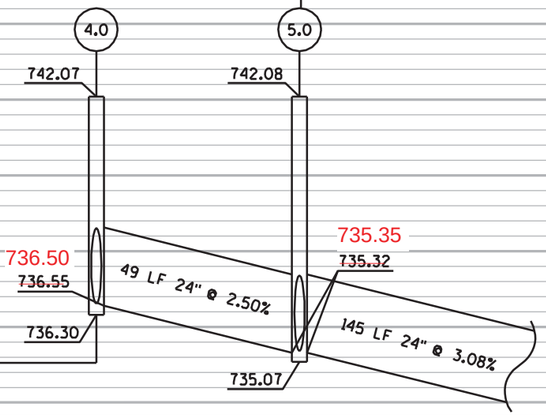
SEMINARY ROAD

892+00 893+00 894+00 895+00 896+00 897+00

4+00CL 5+00CL 0+00CL 15+00SR 3+00CL 1+00CL 2+00CL







NOTES:

1) STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.

2) PROPOSED TOP OF STRUCTURE (TOS) ELEVATIONS = TOS = RIM ELEVATIONS - CASTING HEIGHT - 6" ADJUSTING RINGS.

3) PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	STORM SEWER PLANS	SHEET 56 E

898+50 LT, 36' 18-INCH CMCP, 2 AEW'S UNDER DRIVEWAY

COVER PLATE TEMPORARY REQUIRED FOR STAGE 2 TEMPORARY PAVEMENT

6.3 898+30.0, 39.5' LT TYPE 3-H INLET

6.2 898+30.0, 10.8' LT TYPE 3-H INLET

SLOPE INTERCEPTS (TYP.)

12.1 899+64.3, 40.9' RT TYPE 3-J MANHOLE

COVER PLATE TEMPORARY REQUIRED FOR STAGE 2 TEMPORARY PAVEMENT

901+39.9, 4.9' LT TYPE 1-H MANHOLE 7.0

8.4 901+48.0, 71.1' LT 24" ENDWALL

8.3 901+48.0, 28.4' LT TYPE 1-H MANHOLE

8.0 901+48.0, 4.3' LT TYPE 3-H MANHOLE

MATCH LINE STA. 897+50

898+00

899+00

900+00

901+00

902+00

903+00

STH 54

MATCH LINE STA. 903+55

6.0 898+30.0, 3.8' LT TYPE 1-J MANHOLE

6.1 898+30.1, 27.6' RT TYPE 8-MS INLET

REMOVE ENDWALL & CONNECT EXISTING PIPE TO NEW MANHOLE

COVER PLATE TEMPORARY REQUIRED FOR STAGE 1 TEMPORARY PAVEMENT

8.2 901+48.0, 1.9' RT TYPE 3-H INLET

8.1 901+48.0, 26.6' RT TYPE 8-MS INLET

12.2 902+50.0, 41.1' RT TYPE 3-J MANHOLE

903+50.0, 41.4' RT 36" ENDWALL 12.3

COVER PLATE TEMPORARY REQUIRED FOR STAGE 1 TEMPORARY PAVEMENT

NOTES:

1) STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.

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3) PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED

6.0 737.87

731.02

730.85

730.60

730.51

145 LF 24" @ 3.08%

310 LF 24" @ 3.50%

6.3 738.09

6.2 738.09

6.0 737.87

6.1 738.00

733.27

733.08

732.91

732.15

732.06

731.87

731.89

731.85

732.81

732.64

730.51

730.60

29 39 LF 12" @ 3.52%

7 LF 12" @ 3.00%

32 LF 12" @ 3.00%

7.0 725.83

8.0 725.50

719.98

720.00

719.86

719.72

719.75

717.48

8 LF 24" @ 3.50%

8.4 715.05

715.15

8.3 725.36

8.0 725.50

8.2 725.48

8.1 725.70

716.88

716.78

717.91

718.91

718.73

717.73

719.01

720.01

719.84

718.84

717.65

717.48

716.53

25 LF 12" @ 4.00%

6 LF 12" @ 4.50%

24 LF 24" @ 4.00%

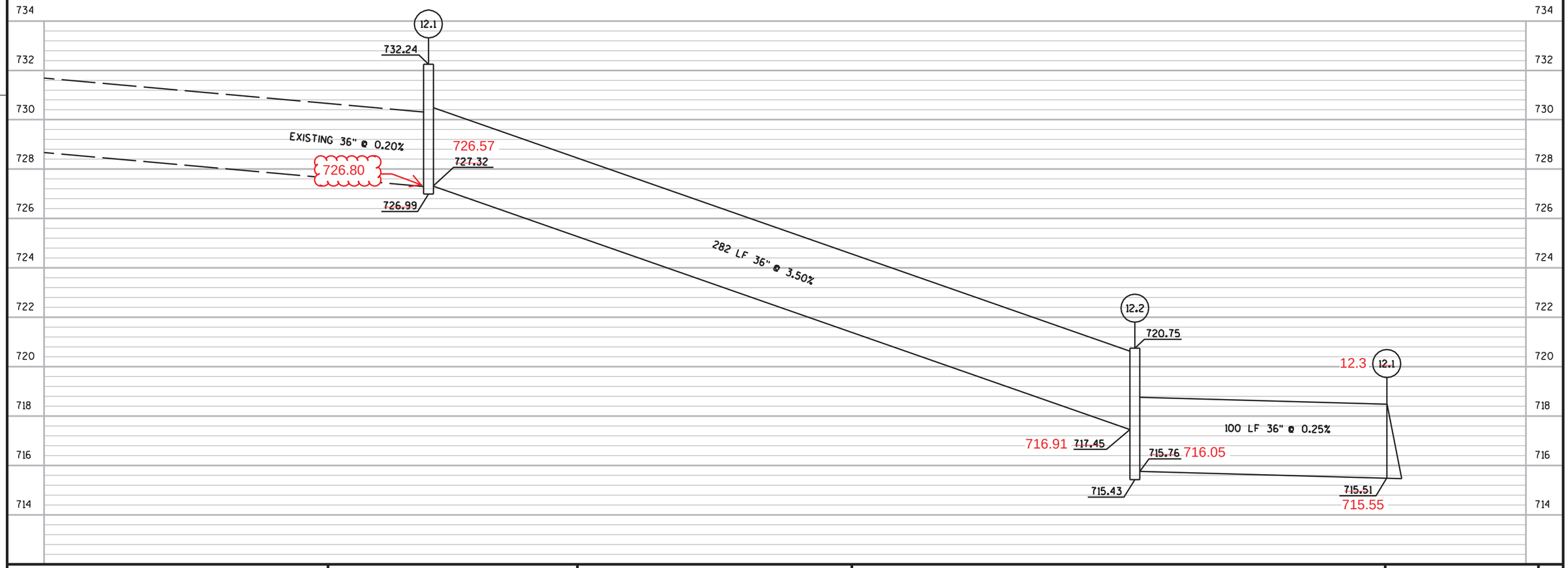
43 LF 24" @ 4.00%

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	STORM SEWER PLANS	SHEET 57	E

FILE NAME : g:\dlz\dz-09043\dgn\plan sheets\022503_ss.dgn PLOT DATE : 8/30/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 41

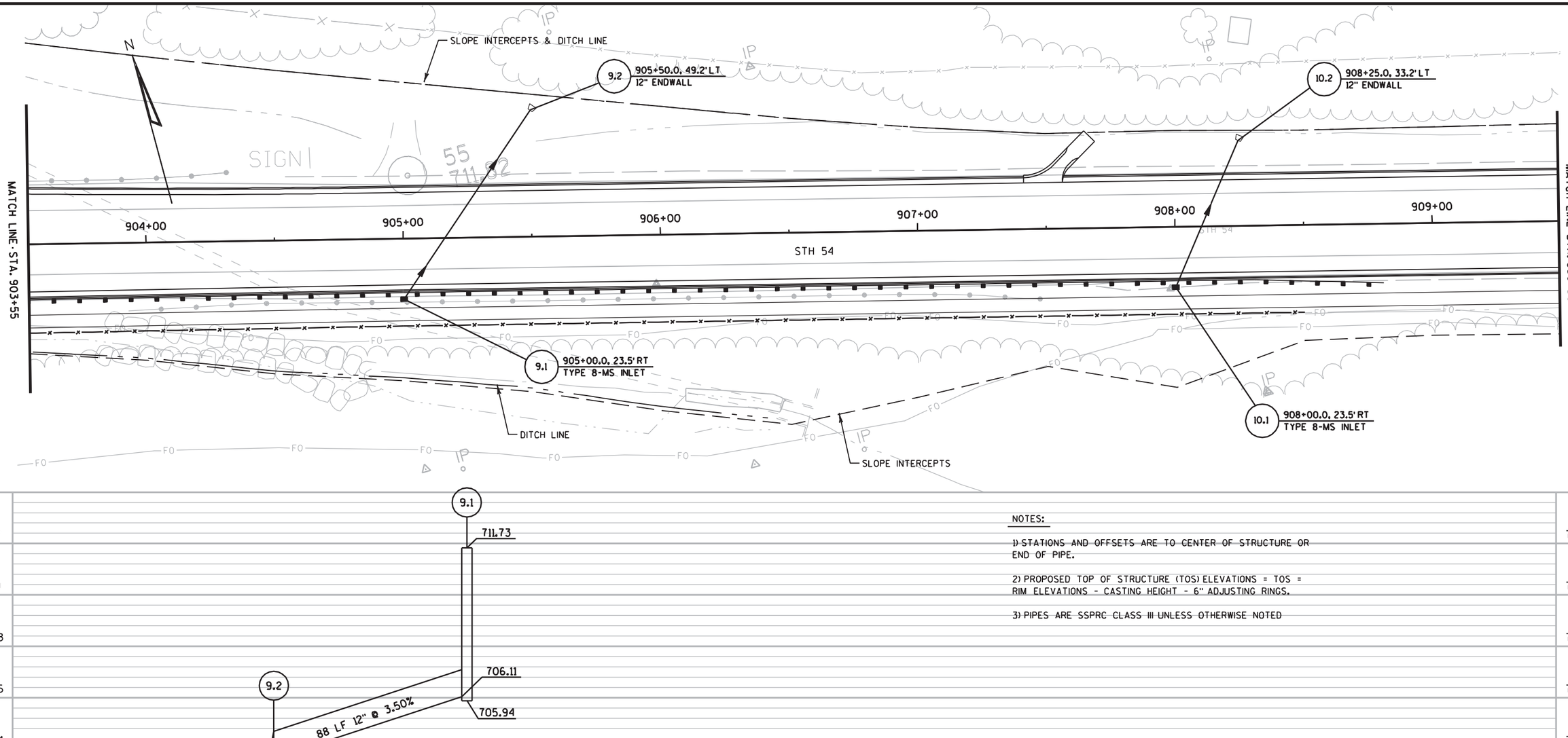
2

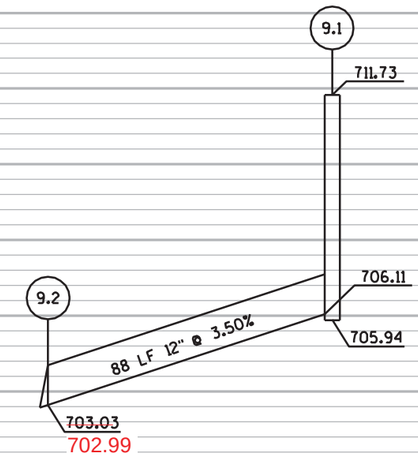


PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	STORM SEWER PLANS	SHEET 58	E

FILE NAME : g:\dlz\dz-09043\dgn\plan sheets\022503_ss.dgn PLOT DATE : 8/30/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 41



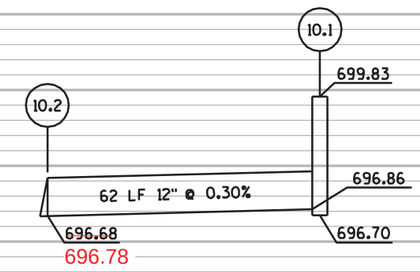


NOTES:

1) STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.

2) PROPOSED TOP OF STRUCTURE (TOS) ELEVATIONS = TOS = RIM ELEVATIONS - CASTING HEIGHT - 6" ADJUSTING RINGS.

3) PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	STORM SEWER PLANS	SHEET 59	E

2

N

SLOPE INTERCEPTS (TYP.)

SEMINARY ROAD

895+04.6, 102.7' RT
TYPE 3-H INLET
2.3

13+49.9, 22.5' LT
TYPE 1-H MANHOLE
2.2

4" TRENCH INSULATION
8' X 8'
(WHERE PROPOSED SS CROSSES
RELOCATED WATER MAIN)

CAUTION
WATER MAIN

MATCH LINE STA. 14+50

11+77.5, 31.8' RT
TYPE 8-MS INLET
2.1

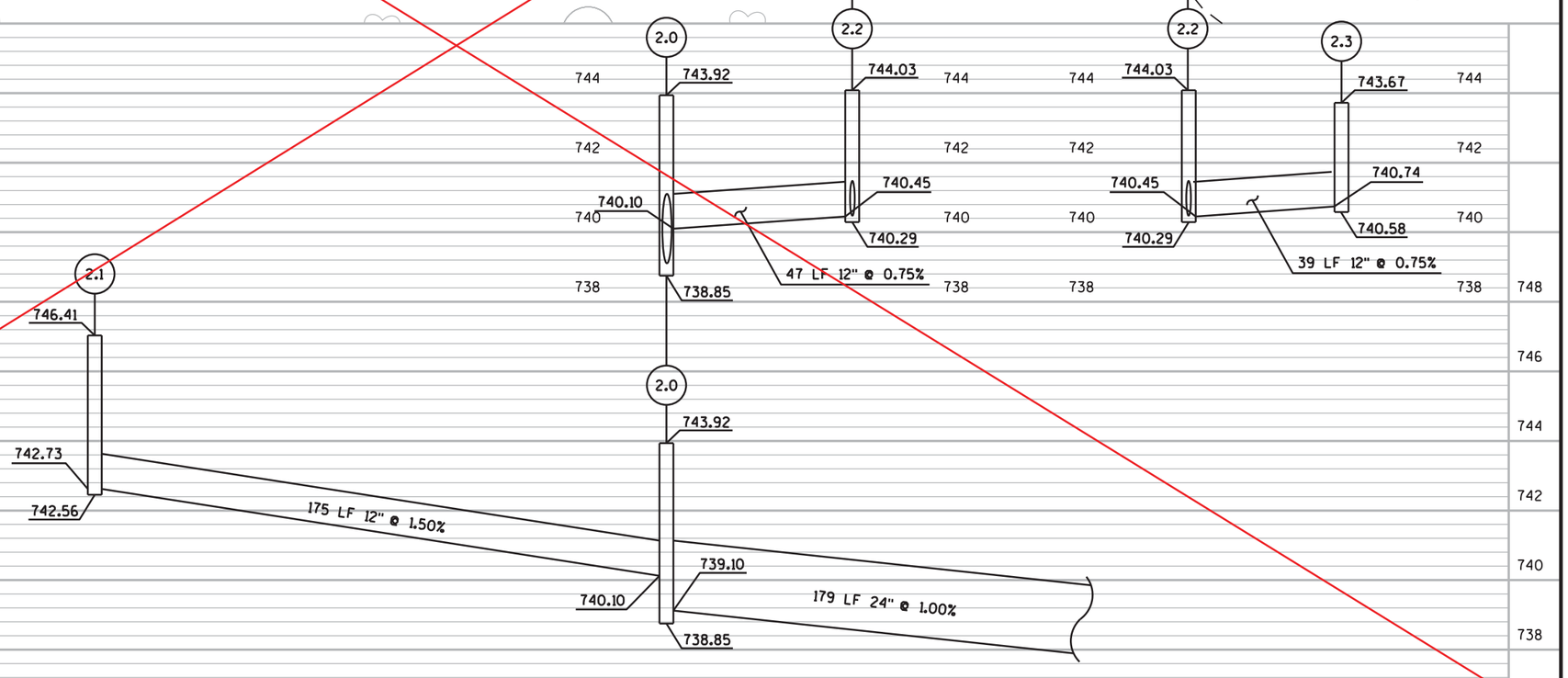
13+49.8, 24.6' RT
TYPE 1-H MANHOLE
2.0

NOTES:

1) STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.

2) PROPOSED TOP OF STRUCTURE (TOS) ELEVATIONS = TOS = RIM ELEVATIONS - CASTING HEIGHT - 6" ADJUSTING RINGS.

3) PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	STORM SEWER PLANS	SHEET 60	E

FILE NAME : G:\DLZ\DZ-09043\PS&E\5 POST FINAL\022506_ss.dgn PLOT DATE : 11/23/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

2

2

SLOPE INTERCEPTS (TYP.)

SEMINARY ROAD

895+04.6, 102.7' RT
TYPE 3-H INLET
2.3

13+49.9, 22.5' LT
TYPE 1-H MANHOLE
2.2

11+77.5, 31.8' RT
TYPE 8-MS INLET
2.1

13+49.8, 24.6' RT
TYPE 1-H MANHOLE
2.0

MATCH LINE STA. 14+50

NOTES:

1) STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.

2) PROPOSED TOP OF STRUCTURE (TOS) ELEVATIONS = TOS = RIM ELEVATIONS - CASTING HEIGHT - 6" ADJUSTING RINGS.

3) PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED

124 LF OF 6" UNPERFORATED PIPE UNDERDRAIN PLACED FROM 11+78-13+02 SR RT WITH A 6" INLET AT 11+78 SR RT IN PLACE OF THE 12" CMCP DUE TO MULTIPLE UTILITY CONFLICTS.

56 LF OF 12" CMCP CONNECTS TO 124 LF OF PIPE UNDERDRAIN

2.0 743.92 — 47 LF 12" @ 0.75% — 2.2 744.03 740.45 740.29

2.2 744.03 740.45 740.29 — 39 LF 12" @ 0.75% — 2.3 743.67 740.74 740.58

2.0 743.92 740.10 738.85

2.1 746.41 742.73 742.56 — 175 LF 12" @ 1.50%

2.0 743.92 739.10 740.10 738.85 — 179 LF 24" @ 1.00%

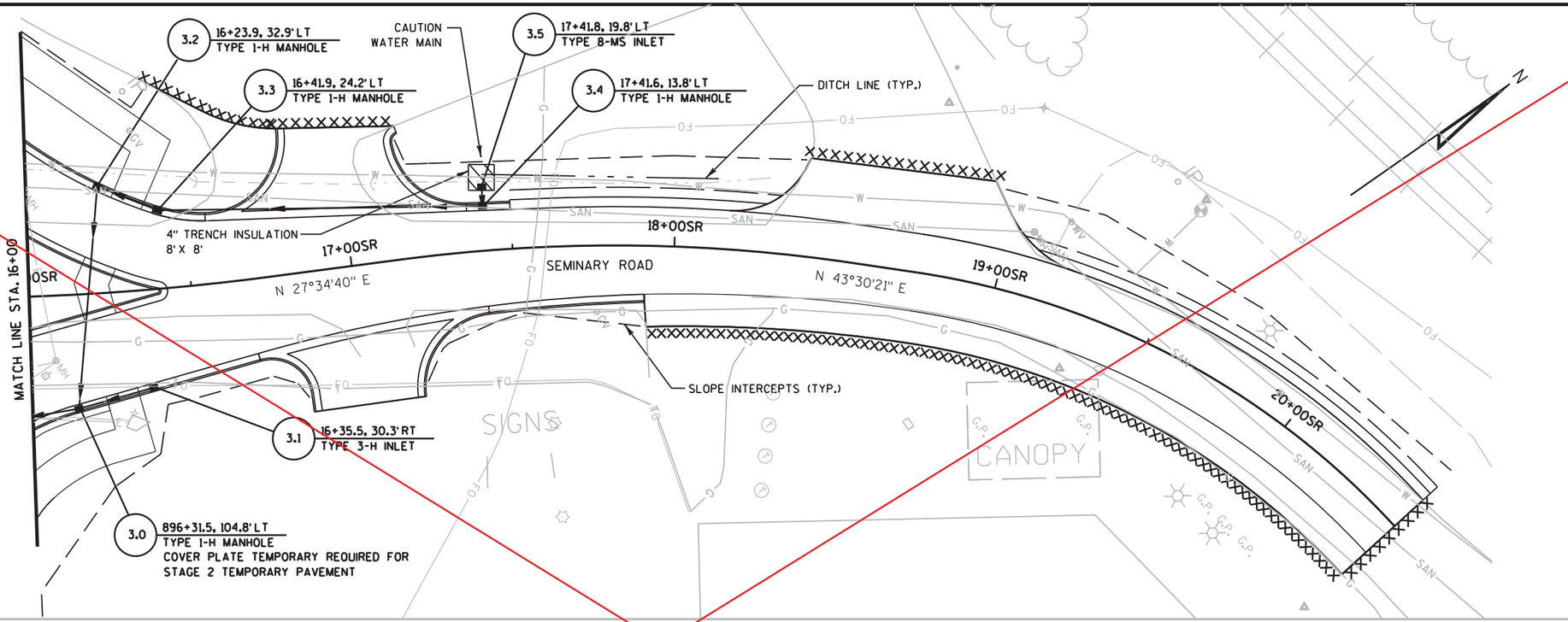
744 742 740 738 736 748 746

Addendum No. 2
ID 9210-11-71
Revised Sheet 60
March 5, 2012

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	STORM SEWER PLANS	SHEET 60 A	E

FILE NAME : g:\DLZ\DZ-09043\PS&E\5 POST FINAL\022506_ss.dgn PLOT DATE : 2/20/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 41



NOTES:

1) STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.

2) PROPOSED TOP OF STRUCTURE (TOS) ELEVATIONS = TOS = RIM ELEVATIONS - CASTING HEIGHT - 6" ADJUSTING RINGS.

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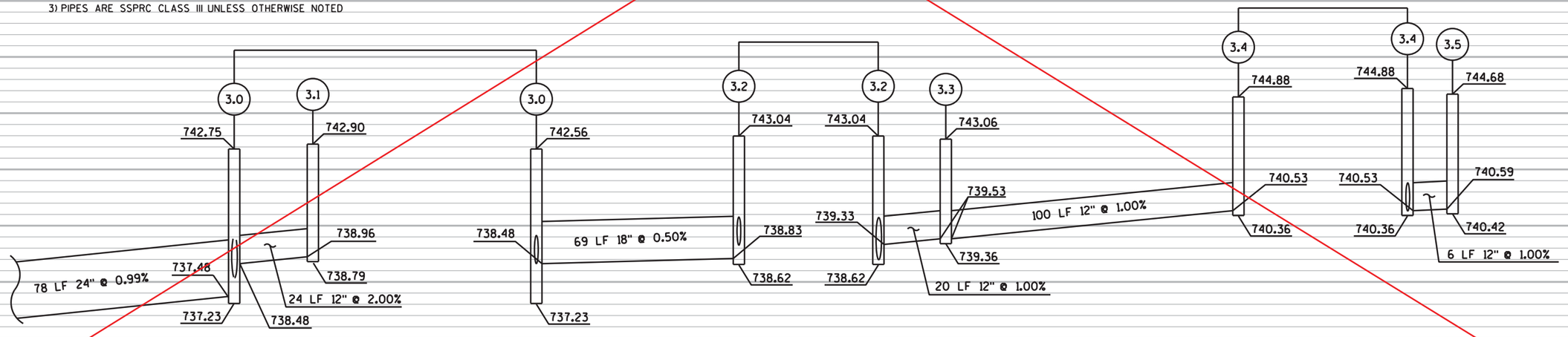
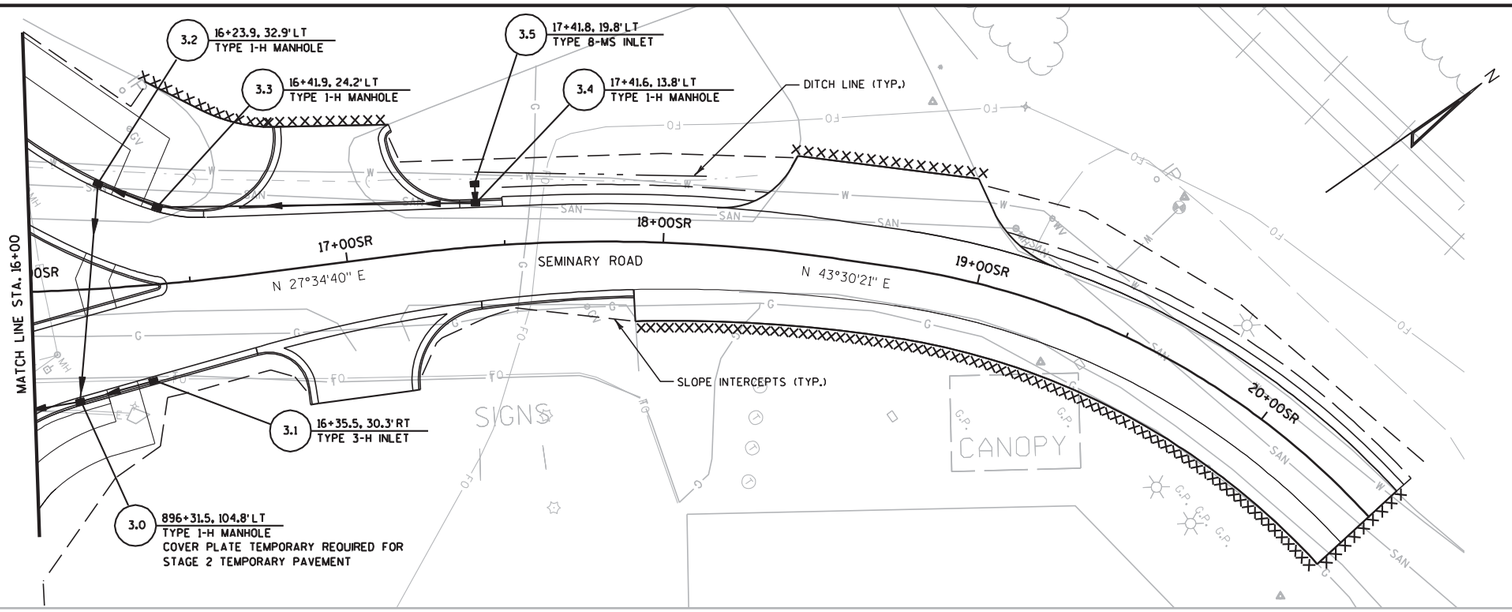


PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	STORM SEWER PLANS	SHEET	E

FILE NAME : G:\DLZ\DZ-09043\PS&E\5 POST FINAL\022507_ss.dgn PLOT DATE : 11/23/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 41

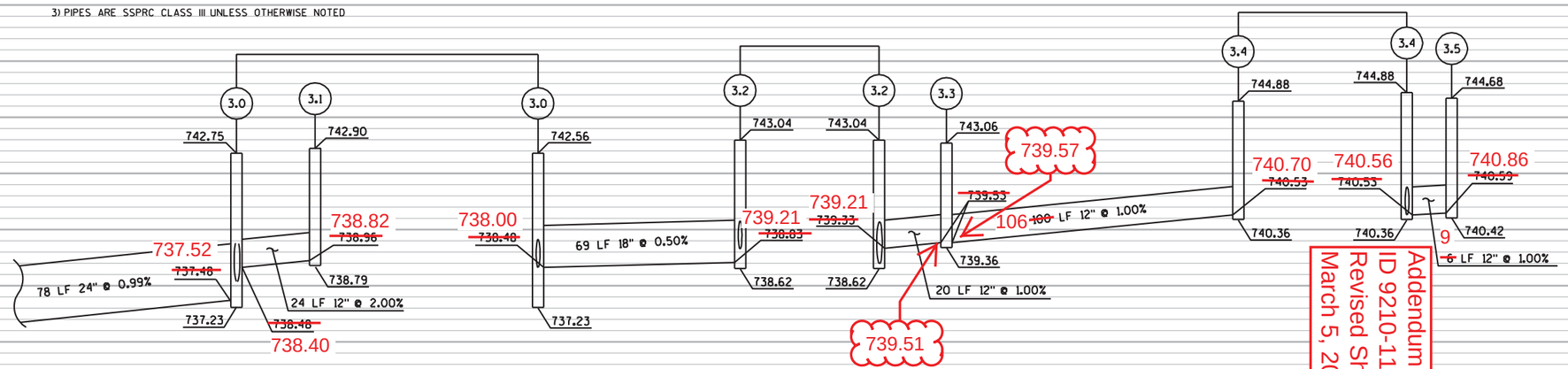


NOTES:

1) STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.

2) PROPOSED TOP OF STRUCTURE (TOS) ELEVATIONS = TOS = RIM ELEVATIONS - CASTING HEIGHT - 6" ADJUSTING RINGS.

3) PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED

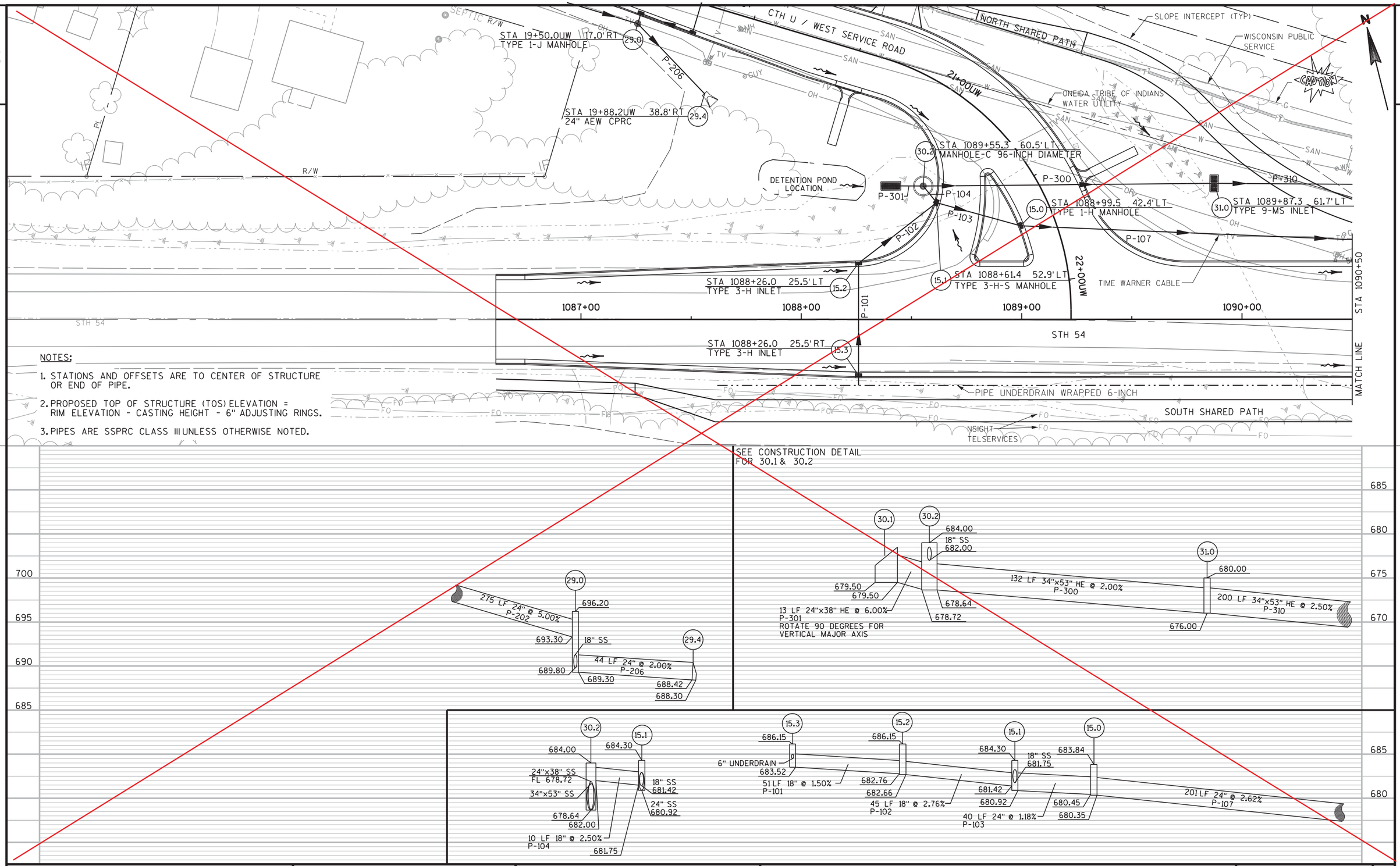


Addendum No. 2
ID 9210-11-71
Revised Sheet 61
March 5, 2012

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	STORM SEWER PLANS	SHEET 61 A	E

FILE NAME : g:\DLZ\DZ-09043\PS&E\5 POST FINAL\022507_ss.dgn PLOT DATE : 2/20/2012 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

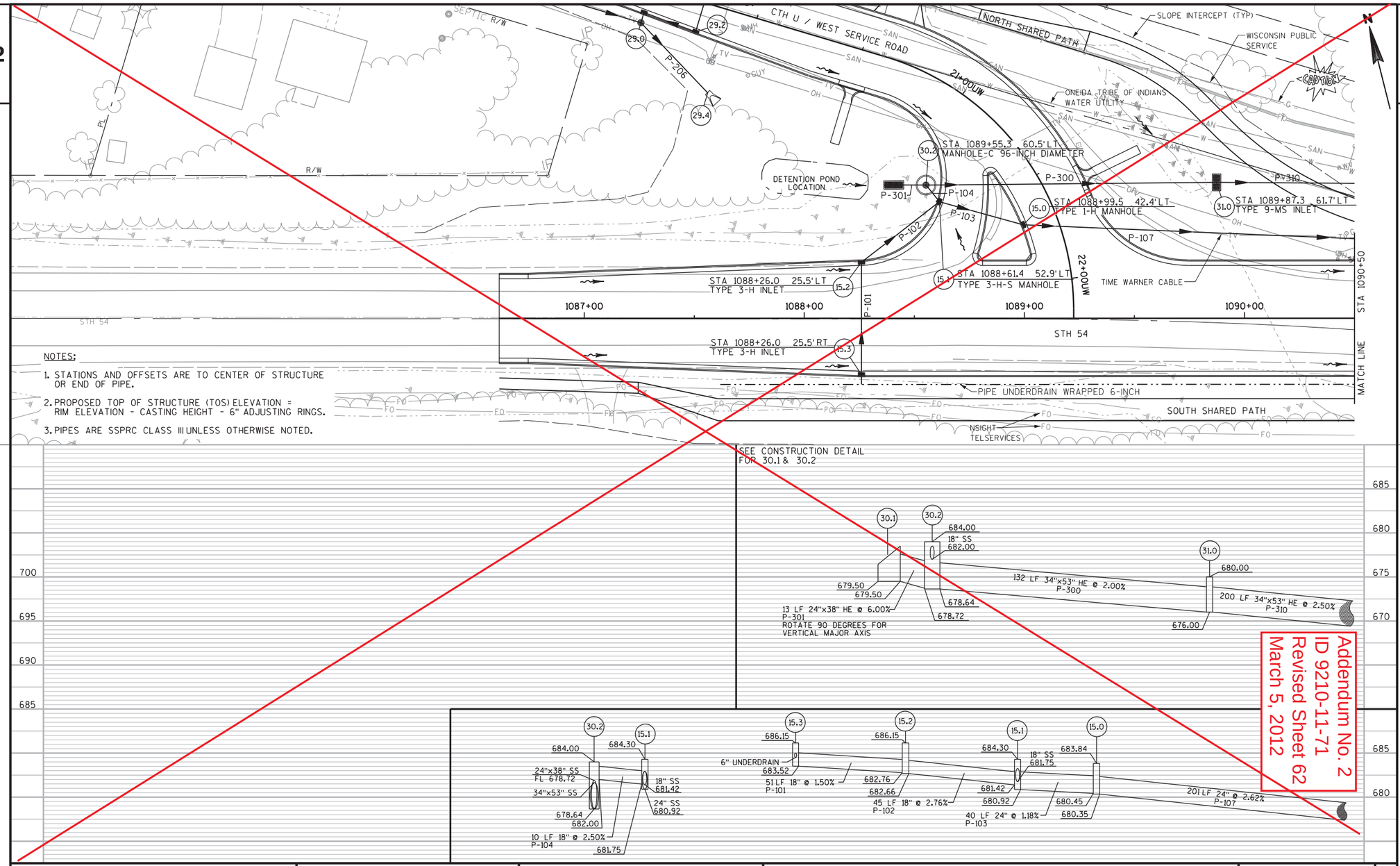
WISDOT/CADDS SHEET 41



NOTES:

1. STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.
2. PROPOSED TOP OF STRUCTURE (TOS) ELEVATION = RIM ELEVATION - CASTING HEIGHT - 6" ADJUSTING RINGS.
3. PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED.

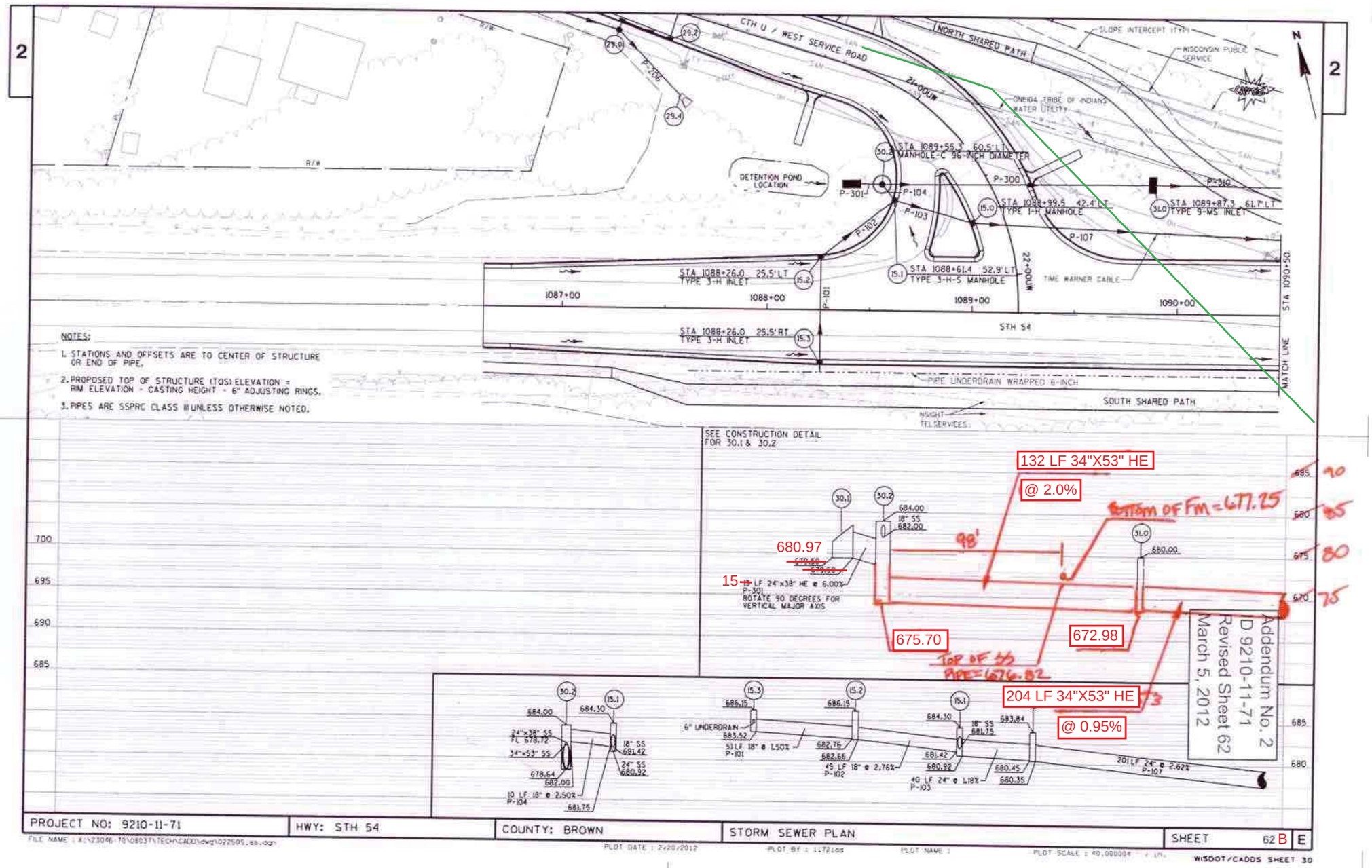
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	STORM SEWER PLAN	SHEET 62	E



Addendum No. 2
ID 9210-11-71
Revised Sheet 62
March 5, 2012

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	STORM SEWER PLAN	SHEET 62A	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\022505_ss.dgn PLOT DATE : 2/20/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.000004 ' / in.

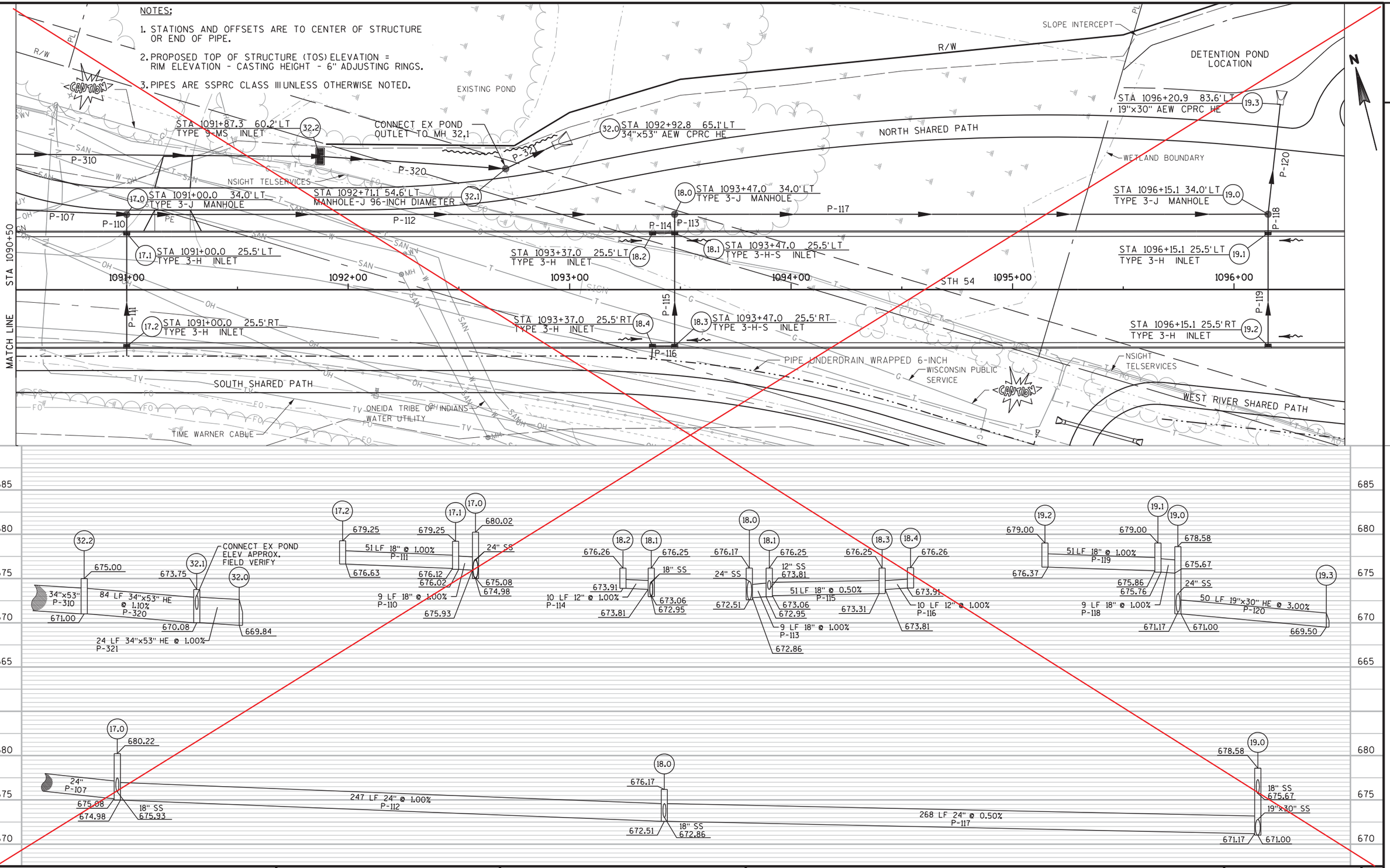


PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	STORM SEWER PLAN	SHEET 62 B E

FILE NAME : X:\23046-70\08031\TECH\CADD\dwg\1022509_ss.dgn
PLOT DATE : 2/20/2012
PLOT BY : 11721os
PLOT NAME :
PLOT SCALE : 40.000004 ' / IN.
WISDOT/CADDS SHEET 30

NOTES:

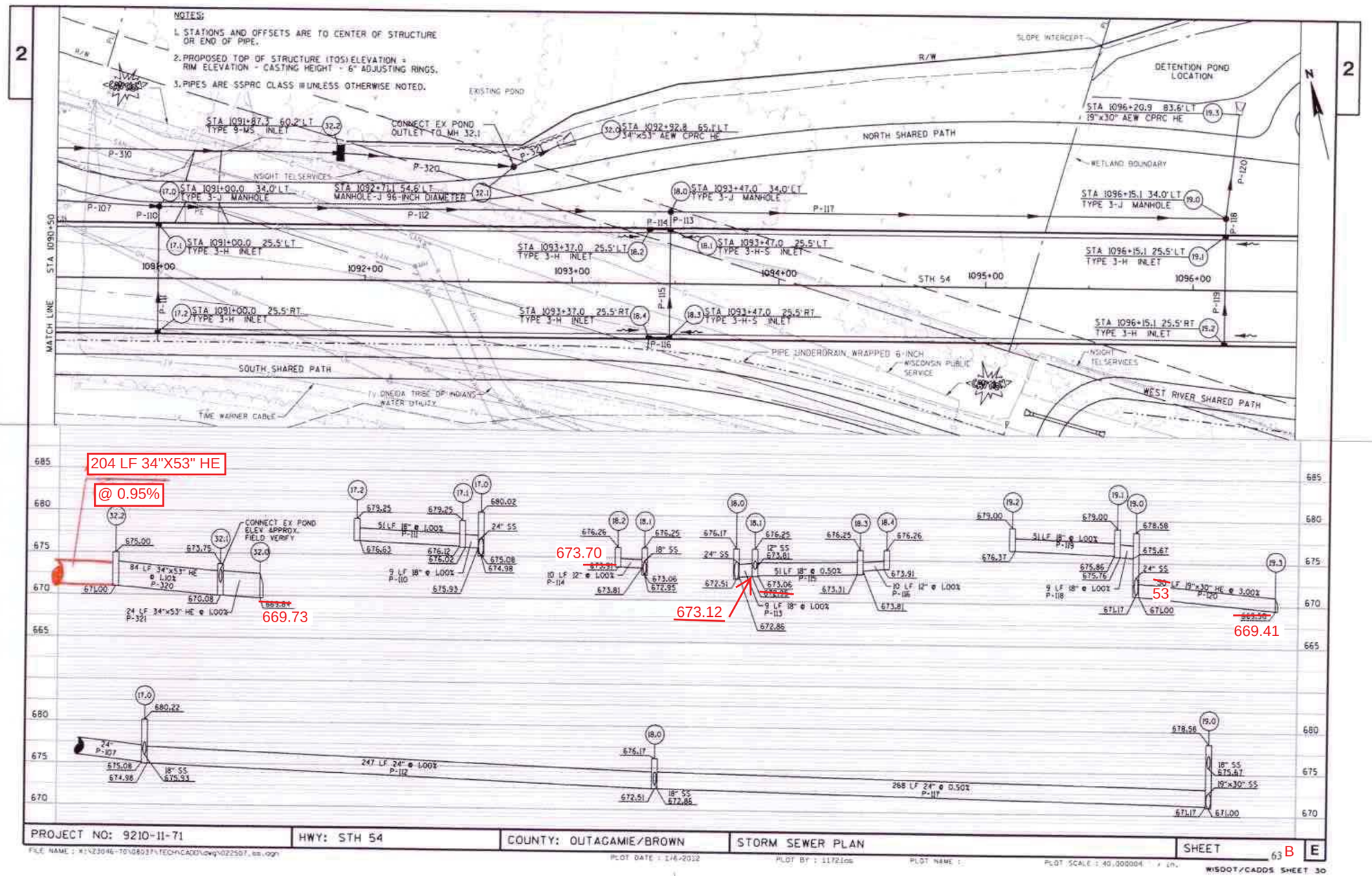
1. STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.
2. PROPOSED TOP OF STRUCTURE (TOS) ELEVATION = RIM ELEVATION - CASTING HEIGHT - 6" ADJUSTING RINGS.
3. PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED.



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	STORM SEWER PLAN	SHEET 63	E

NOTES:

1. STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.
2. PROPOSED TOP OF STRUCTURE (TOS) ELEVATION = RIM ELEVATION - CASTING HEIGHT - 6" ADJUSTING RINGS.
3. PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED.



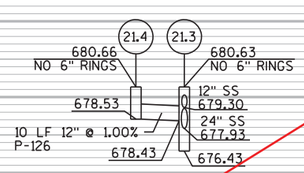
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	STORM SEWER PLAN	SHEET 63 B E

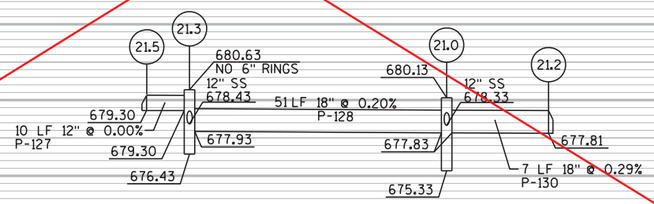
FILE NAME : X:\Z3046-70\0803\TECH\CADD\dwg\022507_ss.dgn
PLOT DATE : 1/6/2012 PLOT BY : 11721cs PLOT NAME : PLOT SCALE : 40.000004 ' / In.
WISDOT/CADDS SHEET 30

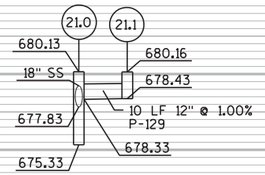
NOTES:

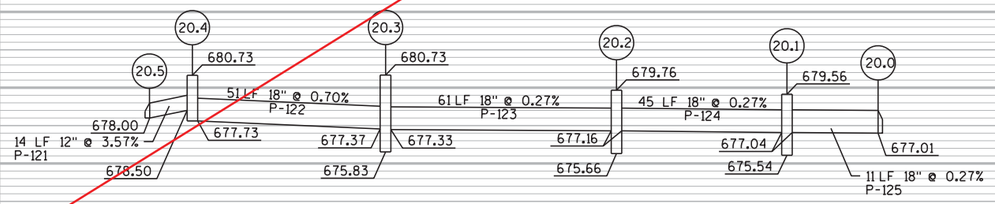
1. STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.
2. PROPOSED TOP OF STRUCTURE (TOS) ELEVATION = RIM ELEVATION - CASTING HEIGHT - 6" ADJUSTING RINGS.
3. PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED.

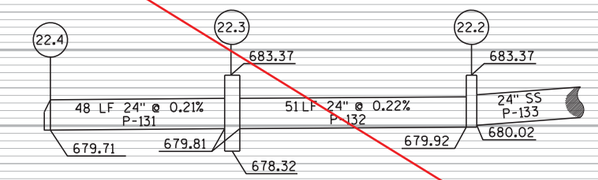
WETLAND BOUNDARY
PIPE UNDERDRAIN WRAPPED 6-INCH
NORTH SHARED PATH
TLE
R/W
STH 54
1103+00
1104+00
1105+00
1106+00
1107+00
1108+00
20+00 LUE
P-121
P-122
P-123
P-124
P-125
P-126
P-127
P-128
P-129
P-130
P-131
P-132
P-133
20.5 STA 1103+42.1 37.2'LT 12" AEW CPRC
20.4 STA 1103+48.8 25.5'LT TYPE 3-H INLET
STA 1103+48.8 25.5'RT TYPE 1-H CATCH BASIN 20.3
STA 1103+89.3 71.3'RT STA 20+71.0UE 17.5'RT TYPE 1-H-S CATCH BASIN 20.2
20.1 STA 1104+34.4 70.4'RT STA 20+70.4UE 27.6'LT TYPE 1-H-S CATCH BASIN
20.0 STA 1104+43.9 68.4'RT STA 20+68.3UE 38.4'LT 18" AEW CPRC
STA 1105+48.0 25.5'LT TYPE 1-H-S CATCH BASIN 21.3
21.5 STA 1105+48.0 34.0'LT 12" AEW CPRC
21.4 STA 1105+58.0 25.5'LT TYPE 3-H INLET
STA 1105+48.0 25.5'RT TYPE 1-H-S CATCH BASIN 21.0
21.1 STA 1105+58.0 25.5'RT TYPE 3-H INLET
21.2 STA 1105+45.1 38.1'RT 18" AEW CPRC
STA 1108+00.0 25.5'LT TYPE 3-H MANHOLE 22.2
22.3 STA 1108+00.0 25.5'RT TYPE 1-H CATCH BASIN
22.4 STA 1107+52.8 44.7'RT 24" AEW CPRC
MATCH LINE STA 1108+50
DETENTION POND LOCATION
DETENTION POND LOCATION
NSIGHT TELSERVICES
TIME WARNER CABLE
WISCONSIN PUBLIC SERVICE
CAUTION
CTH U
EAST SERVICE ROAD
RUINS
SIGN
POST
OH
SAN
TV
TV-SAN
W
G
T
PL
R/W
N







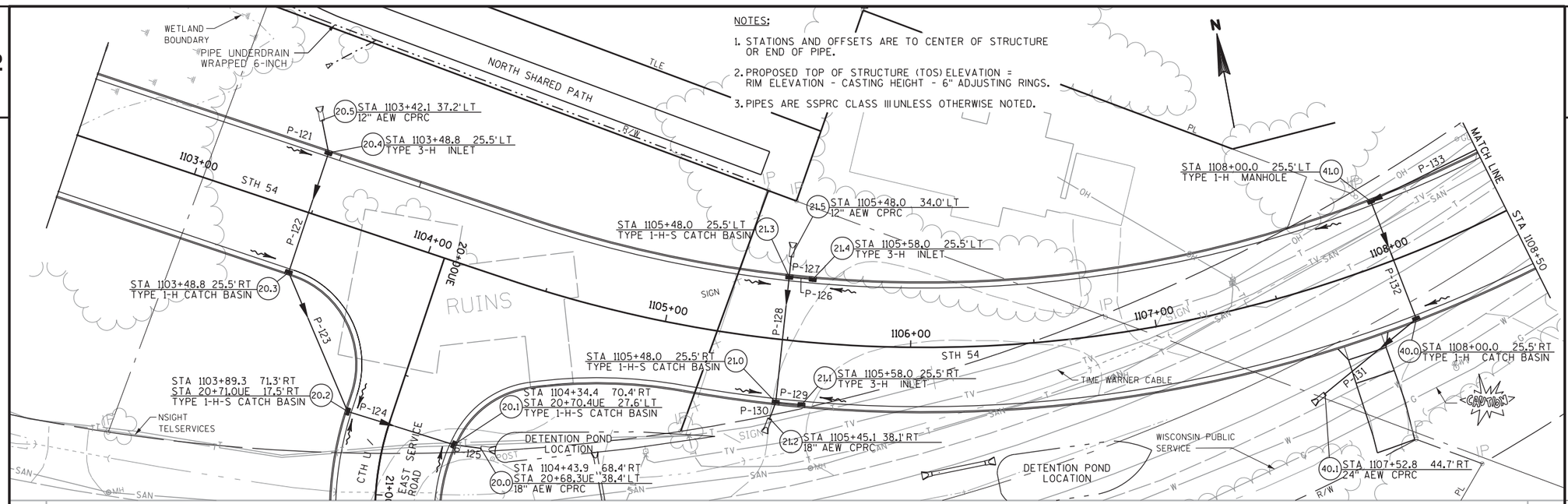


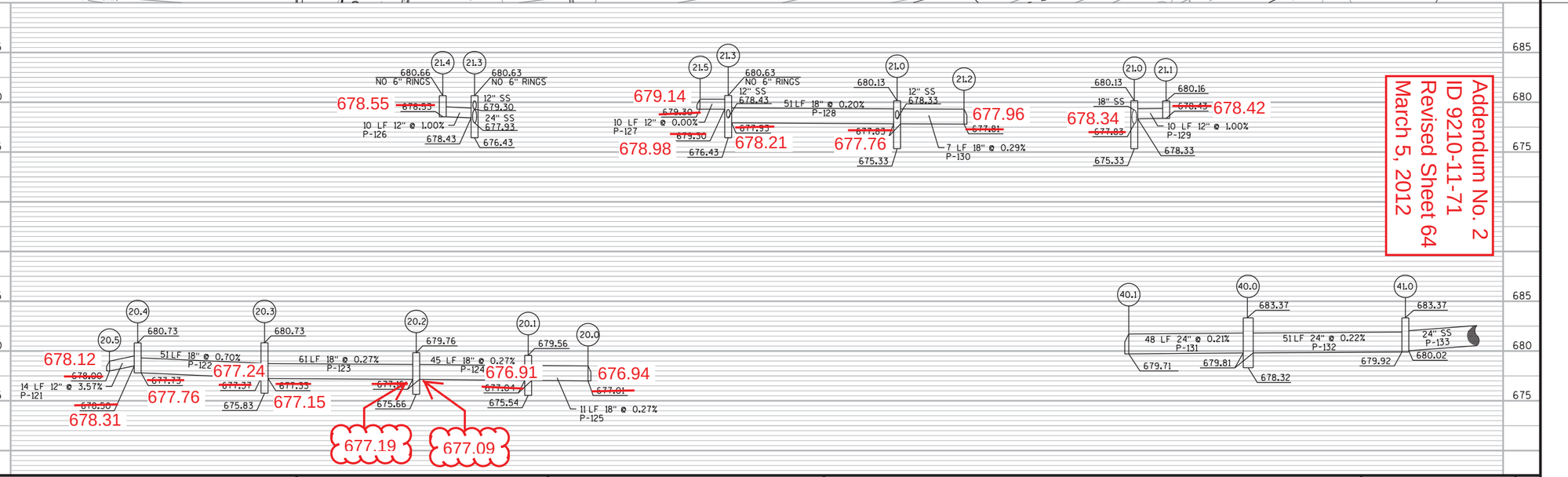


PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	STORM SEWER PLAN	SHEET 64	E

NOTES:

1. STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.
2. PROPOSED TOP OF STRUCTURE (TOS) ELEVATION = RIM ELEVATION - CASTING HEIGHT - 6" ADJUSTING RINGS.
3. PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED.





Addendum No. 2
ID 9210-11-71
Revised Sheet 64
March 5, 2012

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	STORM SEWER PLAN	SHEET 64A	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\022511_ss.dgn PLOT DATE : 2/20/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.000000 ' / in.

WISDOT/CADDS SHEET 30

2

MATCH LINE

STA 1108+50

1109+00

1110+00

1111+00

1112+00

1113+00

1114+00

TIME WARNER CABLE

NSIGHT TELSERVICES

WISCONSIN PUBLIC SERVICE

ONEIDA TRIBE OF INDIANS WATER UTILITY

STH 54

R/W

P-133

P-134

P-135

P-136

P-137

P-138

P-139

P-140

P-141

22.0 STA 1109+50.0 18.0' LT TYPE 3-J-S MANHOLE

22.1 STA 1109+30.0 49.0' RT TYPE 8-MS INLET

23.0 STA 1111+19.0 18.0' LT TYPE 3-J-S MANHOLE

23.2 STA 1111+19.0 25.5' LT TYPE 3-H INLET

24.0 STA 1112+73.0 18.0' LT TYPE 3-J-S MANHOLE

24.3 STA 1112+81.5 31.5' LT 18" AEW CPRC

24.4 STA 1112+81.8 24.1' RT TYPE 3-H INLET

24.1 STA 1112+91.8 23.7' RT TYPE 3-H INLET

24.2 STA 1113+06.2 36.2' RT 18" AEW CPRC

END PROJECT 9210-11-71
STA 1112+97.91

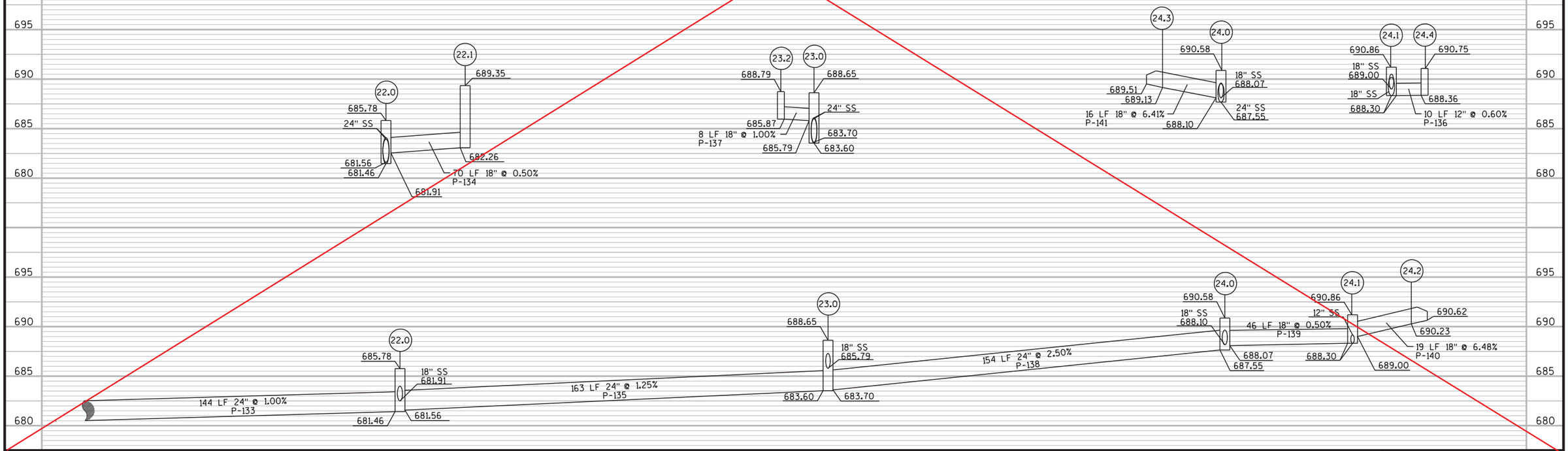
R-05-102 RETAINING WALL

CAUTION

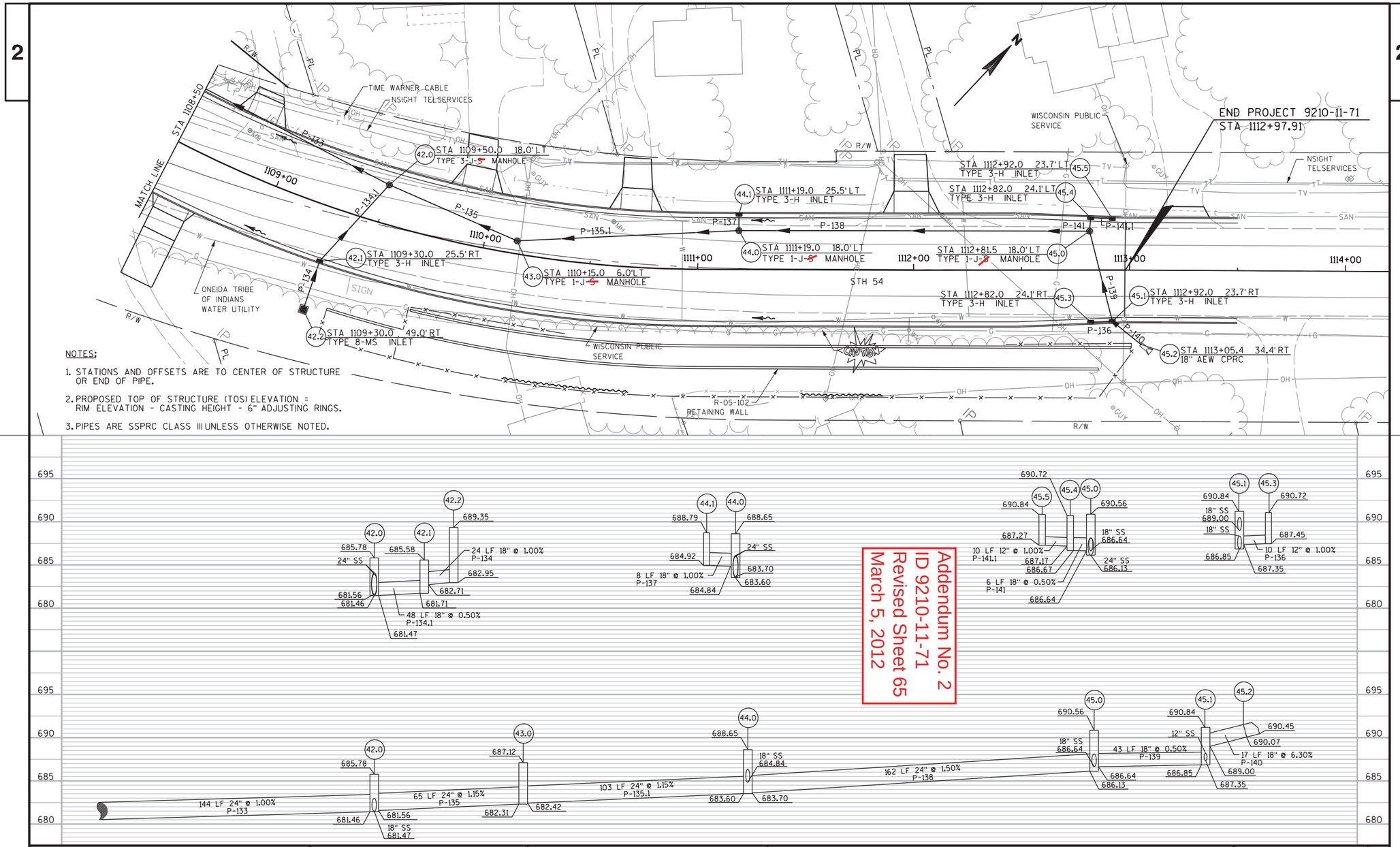
SIGN

NOTES:

1. STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.
2. PROPOSED TOP OF STRUCTURE (TOS) ELEVATION = RIM ELEVATION - CASTING HEIGHT - 6" ADJUSTING RINGS.
3. PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED.



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	STORM SEWER PLAN	SHEET 65	E



NOTES:

1. STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.
2. PROPOSED TOP OF STRUCTURE (TOS) ELEVATION = RIM ELEVATION - CASTING HEIGHT - 6" ADJUSTING RINGS.
3. PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED.

Addendum No. 2
ID 9210-11-71
Revised Sheet 65
March 5, 2012

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	STORM SEWER PLAN	SHEET 65 A	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\022513_ss.dgn PLOT DATE : 2/20/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.000001 ' / in.

WISDOT/CADDS SHEET 30

(15.1) STA 1088+61.4 52.9' LT
TYPE 3-H-S MANHOLE

(28.0) STA 16+75.0UW 17.0' RT
TYPE 1-J MANHOLE

(28.1) STA 16+75.0UW 11.5' RT
TYPE 3-H INLET

(28.2) STA 16+75.0UW 11.5' LT
TYPE 3-H INLET

(29.0) STA 19+50.0UW 17.0' RT
TYPE 1-J MANHOLE

(29.1) STA 19+50.0UW 12.2' RT
TYPE 3-H INLET

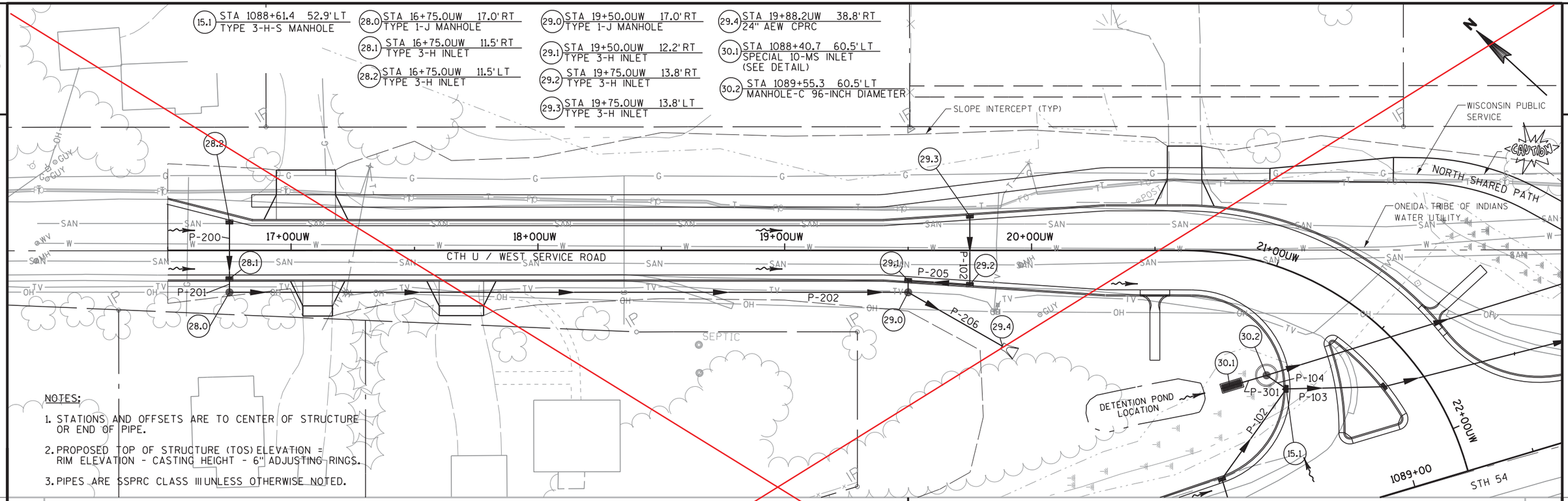
(29.2) STA 19+75.0UW 13.8' RT
TYPE 3-H INLET

(29.3) STA 19+75.0UW 13.8' LT
TYPE 3-H INLET

(29.4) STA 19+88.2UW 38.8' RT
24" AEW CPRC

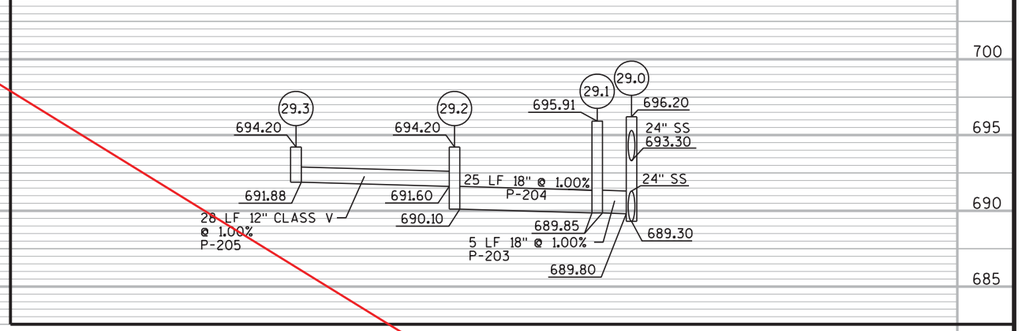
(30.1) STA 1088+40.7 60.5' LT
SPECIAL 10-MS INLET
(SEE DETAIL)

(30.2) STA 1089+55.3 60.5' LT
MANHOLE-C 96-INCH DIAMETER



NOTES:

1. STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.
2. PROPOSED TOP OF STRUCTURE (TOS) ELEVATION = RIM ELEVATION - CASTING HEIGHT - 6" ADJUSTING RINGS.
3. PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED.



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	STORM SEWER PLAN	SHEET 66	E

Move 28 series to station 17+47

15.1 STA 1088+61.4 52.9' LT
TYPE 3-H-S MANHOLE

28.0 STA 16+75.0UW 17.0' RT
TYPE 1-J MANHOLE

28.1 STA 16+75.0UW 11.5' RT
TYPE 3-H INLET

28.2 STA 16+75.0UW 11.5' LT
TYPE 3-H INLET

29.0 STA 19+50.0UW 17.0' RT
TYPE 1-J MANHOLE

29.1 STA 19+50.0UW 12.2' RT
TYPE 3-H INLET

29.2 STA 19+75.0UW 13.8' RT
TYPE 3-H INLET

29.3 STA 19+75.0UW 13.8' LT
TYPE 3-H INLET

29.4 STA 19+88.2UW 38.8' RT
24" AEW CPRC

30.1 STA 1088+40.7 60.5' LT
SPECIAL 10-MS INLET
(SEE DETAIL)

30.2 STA 1089+55.3 60.5' LT
MANHOLE-C 96-INCH DIAMETER

SLOPE INTERCEPT (TYP)

WISCONSIN PUBLIC SERVICE

CAUTION

NORTH SHARED PATH

ONEIDA TRIBE OF INDIANS WATER UTILITY

17+00UW 18+00UW 19+00UW 20+00UW 21+00UW 22+00UW

CTH U / WEST SERVICE ROAD

P-200 P-201 P-202 P-203 P-204 P-205 P-206

P-102 P-103 P-104 P-301

DETENTION POND LOCATION

SEPTIC

1089+00

STH 54

NOTES:

1. STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.
2. PROPOSED TOP OF STRUCTURE (TOS) ELEVATION = RIM ELEVATION - CASTING HEIGHT - 6" ADJUSTING RINGS.
3. PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED.

709.97 709.54 706.04 709.57

713.68 713.68 713.75

23 LF 12" CLASS V @ 1.00% P-200

710.23 710.00 709.50

706.67 705.4 705.1

5 LF 18" @ 1.00% P-201

709.45 707.05 703.05

203 LF
275 LF 24" @ 5.00% P-202

693.43 693.30 18" SS

52 LF 24" @ 2.00% P-206

689.80 689.30 688.42 688.30 689.83

694.20 694.20 695.91 696.20

691.88 691.67 693.30 693.43

28 LF 12" CLASS V @ 1.00% P-205

25 LF 18" @ 1.00% P-204

691.80 690.10 690.25

24" SS 24" SS

5 LF 18" @ 1.00% P-203

689.80 689.30 689.83 689.76 689.89

Addendum No. 2
ID 9210-11-71
Revised Sheet 66
March 5, 2012

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	STORM SEWER PLAN	SHEET 66 A	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\022506_ss.dgn PLOT DATE : 2/29/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.000000 ' / in.

WISDOT/CADDS SHEET 30

NOTES:

1. STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.
2. PROPOSED TOP OF STRUCTURE (TOS) ELEVATION = RIM ELEVATION - CASTING HEIGHT - 6" ADJUSTING RINGS.
3. PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED.

STH 54

SLOPE INTERCEPT (TYP)

RIVER EAST SHARED PATH

ARTLEY STREET

ADJUST MH

209+00SP

210+00SP

211+00SP

212+00SP

213+00SP

SOUTH SHARED PATH

24" CMP

REPLACE CASTING ADJUST MH

ADJUST MH

27.4 STA 21+60.6UE 54.8' RT
24"x38" AEW CPRC HE

P-146

P-151

26.3

26.2

214+00

21+00UE

22+00UE

23+00UE

CTH U / EAST SERVICE ROAD

DETENTION POND LOCATION

27.1 STA 21+50.7UE 45.1' LT
SPECIAL 10-MS INLET
(SEE DETAIL)

27.2 STA 21+49.7UE 31.1' LT
TYPE 3-C MANHOLE

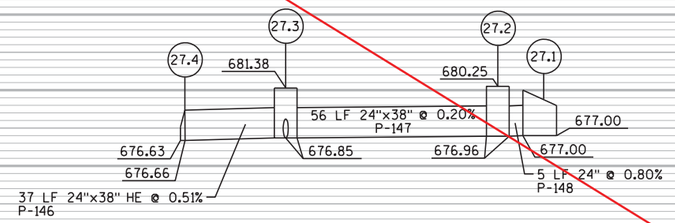
P-148

P-147

27.3 STA 21+44.2UE 24.5' RT
TYPE 3-J-S MANHOLE

20.0 20.1 20.2 20.3 21.0 21.2

SEE CONSTRUCTION DETAIL FOR 27.1 & 27.2



685 680 675 670

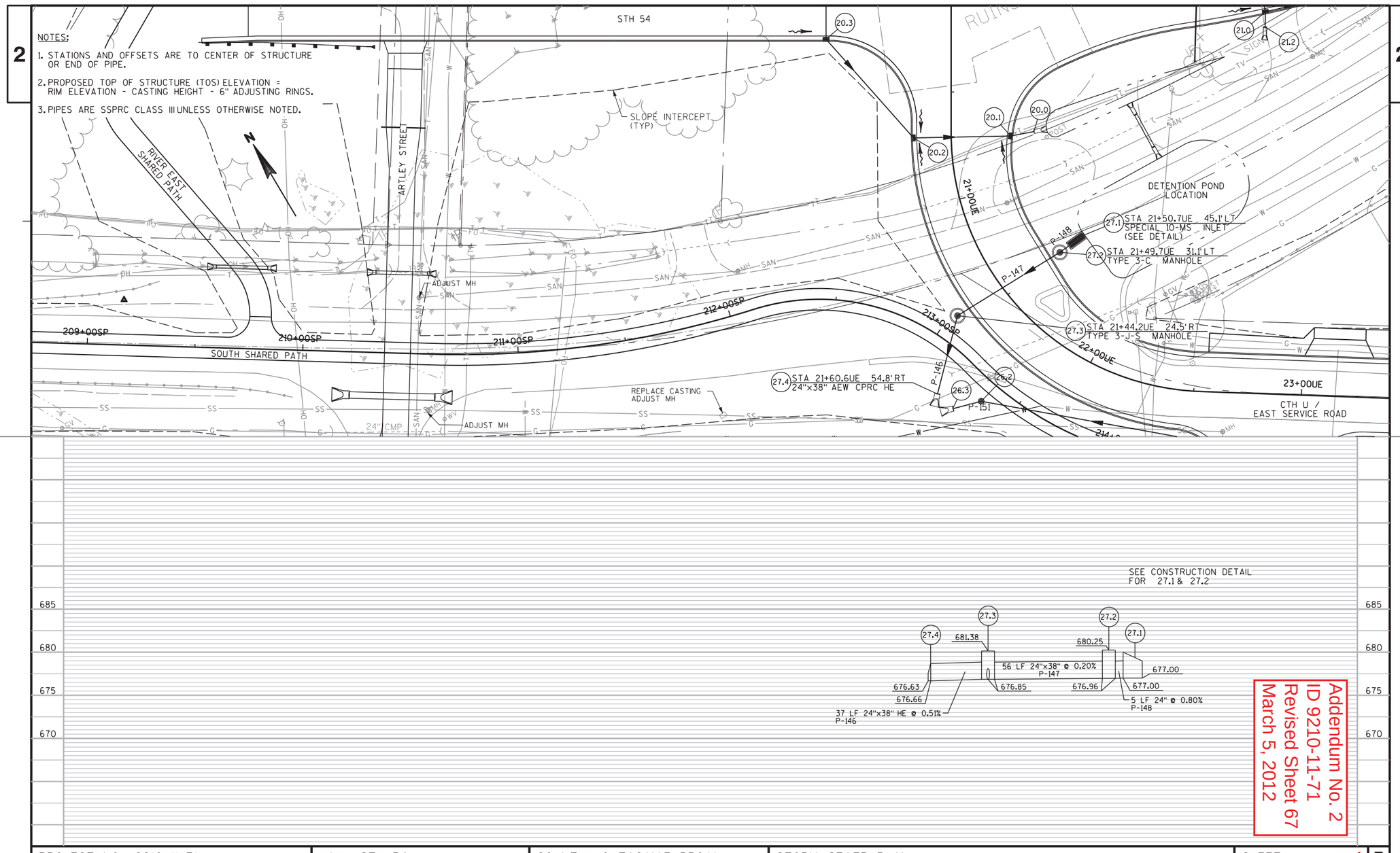
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	STORM SEWER PLAN	SHEET 67	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\022508_ss.dgn PLOT DATE : 1/6/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.00000 sf / in.

WISDOT/CADDS SHEET 40

NOTES:

1. STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.
2. PROPOSED TOP OF STRUCTURE (TOS) ELEVATION = RIM ELEVATION - CASTING HEIGHT - 6" ADJUSTING RINGS.
3. PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED.



Addendum No. 2
ID 9210-11-71
Revised Sheet 67
March 5, 2012

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	STORM SEWER PLAN	SHEET 67 A E

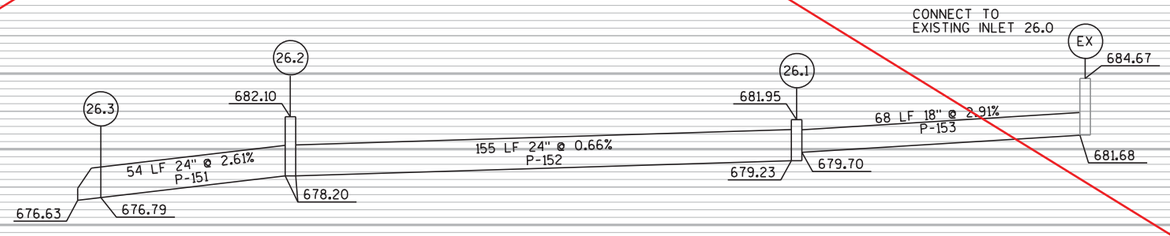
FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\022508_ss.dgn PLOT DATE : 2/20/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.00000 sf / in.

WISDOT/CADDS SHEET 40

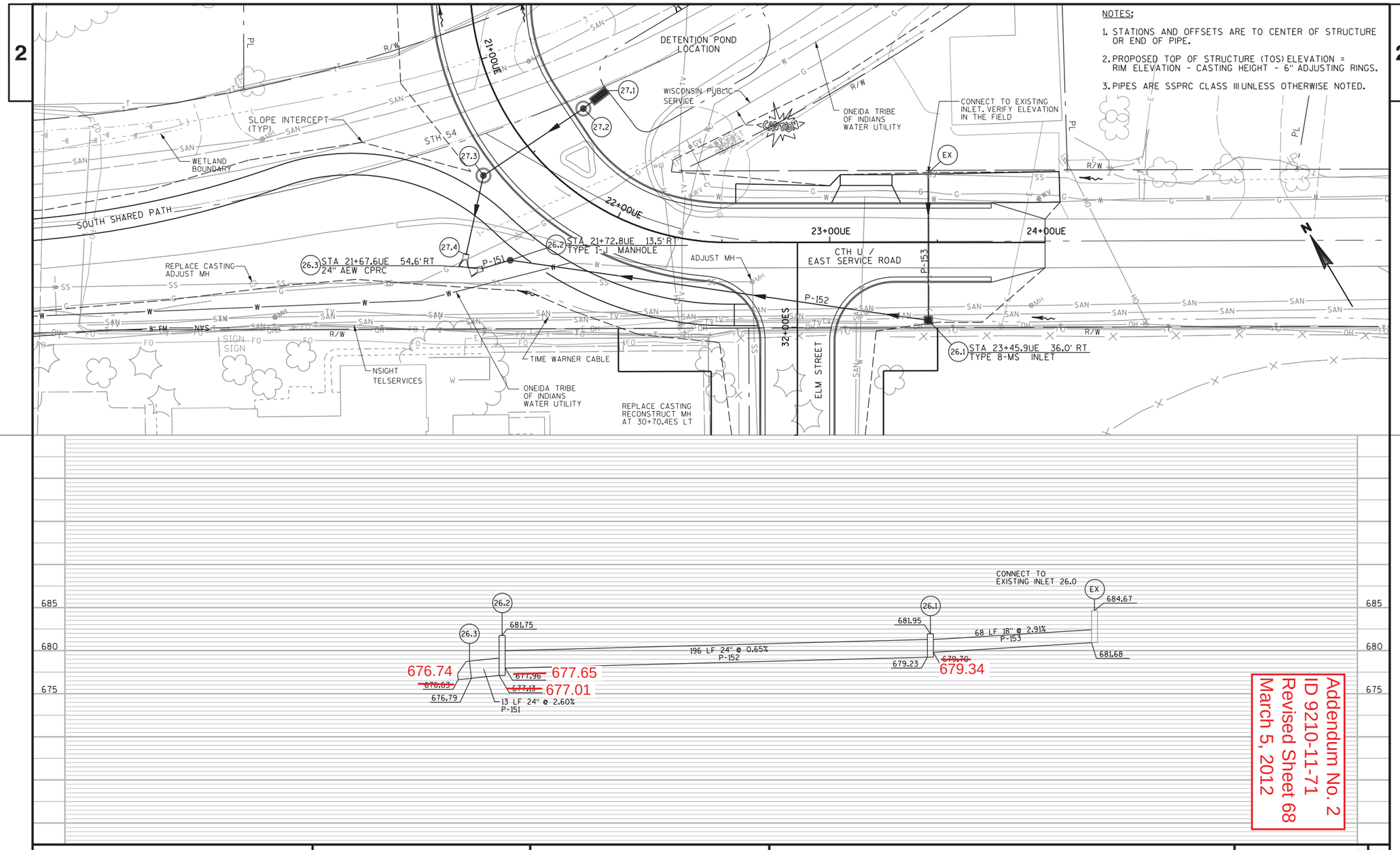
NOTES:

1. STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE OR END OF PIPE.
2. PROPOSED TOP OF STRUCTURE (TOS) ELEVATION = RIM ELEVATION - CASTING HEIGHT - 6" ADJUSTING RINGS.
3. PIPES ARE SSPRC CLASS III UNLESS OTHERWISE NOTED.

DETENTION POND LOCATION
WISCONSIN PUBLIC SERVICE
ONEIDA TRIBE OF INDIANS WATER UTILITY
CAUTION
CONNECT TO EXISTING INLET. VERIFY ELEVATION IN THE FIELD
SLOPE INTERCEPT (TYP)
WETLAND BOUNDARY
SOUTH SHARED PATH
STH 54
21+00UE
22+00UE
23+00UE
24+00UE
32+00ES
27.1
27.2
27.3
27.4
STA 22+01.9UE 25.6' RT
TYPE 1-J MANHOLE
26.2
26.3 STA 21+68.4UE 55.6' RT
24" AEW CPRC
REPLACE CASTING
ADJUST MH
P-151
P-152
P-153
CTH U / EAST SERVICE ROAD
ELM STREET
26.1 STA 23+45.9UE 36.0' RT
TYPE 8-MS INLET
EX
NSIGHT TELSERVICES
TIME WARNER CABLE
ONEIDA TRIBE OF INDIANS WATER UTILITY
REPLACE CASTING RECONSTRUCT MH AT 30+70.4ES LT



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	STORM SEWER PLAN	SHEET 68	E



Addendum No. 2
ID 9210-11-71
Revised Sheet 68
March 5, 2012

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	STORM SEWER PLAN	SHEET 68 A	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\022510_ss.dgn PLOT DATE : 2/20/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.000000 ' / in.

WISDOT/CADDS SHEET 30

PLANT LIST

SYMBOL	COMMON NAME	SYMBOL	COMMON NAME
NR	Maple, Red		
GSM	Maple,Surgar (Green Mountain)	SI	Siberian Iris
WB	Brich, Whitespire		
GLL	Greenspire Linden		
QB	Oak, Swamp White		
NS	Spruce, Norway		
PS	Pine, White		

LEGEND

- DECIDUOUS TREE
- CONIFEROUS TREE
- CONIFEROUS SHRUB or PERENNIAL
- SOD
- NO MOW SEED MIX
- WET MEADOW SEED MIX
- XX = PLANT SYMBOL, 0 = QUANTITY

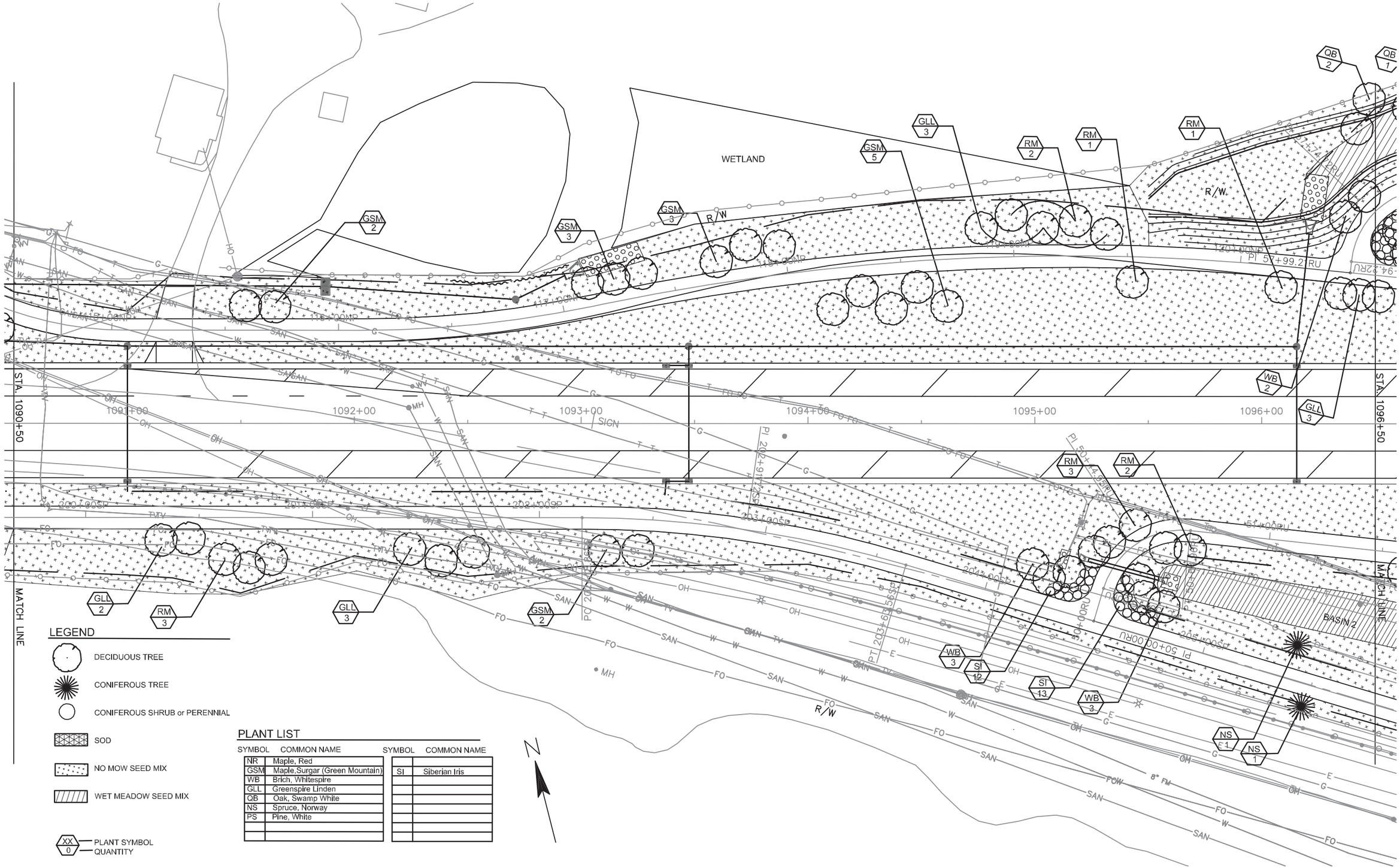
BEGIN PROJECT STA. 16+50

STA. 1090+50 MATCH LINE

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLANTING	SHEET No: 69	E

FILE NAME : _ PLOT DATE : PLOT BY : RGH PLOT NAME : PLOT SCALE : 40.0000 / In. WISDOT/CADDS SHEET

2



LEGEND

- DECIDUOUS TREE
- CONIFEROUS TREE
- CONIFEROUS SHRUB or PERENNIAL
- SOD
- NO MOW SEED MIX
- WET MEADOW SEED MIX
- XX / 0 — PLANT SYMBOL / QUANTITY

PLANT LIST

SYMBOL	COMMON NAME
NR	Maple, Red
GSM	Maple,Surgar (Green Mountain)
WB	Brich, Whitespire
GLL	Greenspire Linden
QB	Oak, Swamp White
NS	Spruce, Norway
PS	Pine, White

SYMBOL	COMMON NAME
SI	Siberian Iris

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLANTING	SHEET No: 70	E

FILE NAME : _ PLOT DATE : PLOT BY : RGH PLOT NAME : PLOT SCALE : 40.0000 / In. WISDOT/CADDS SHEET

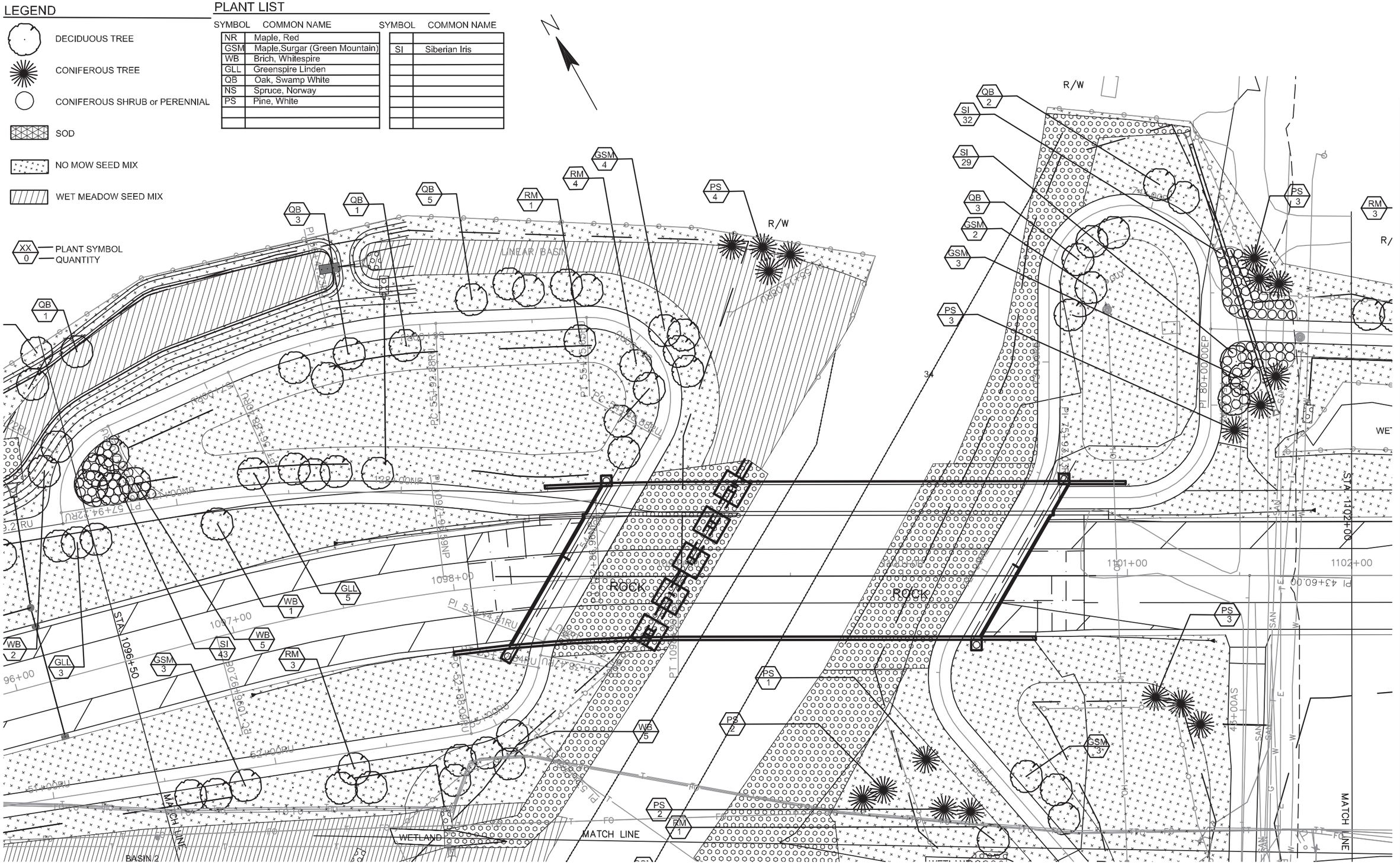
LEGEND

- DECIDUOUS TREE
- CONIFEROUS TREE
- CONIFEROUS SHRUB or PERENNIAL
- SOD
- NO MOW SEED MIX
- WET MEADOW SEED MIX
- XX / 0 — PLANT SYMBOL / QUANTITY

PLANT LIST

SYMBOL	COMMON NAME
NR	Maple, Red
GSM	Maple,Surgar (Green Mountain)
WB	Brich, Whitespire
GLL	Greenspire Linden
QB	Oak, Swamp White
NS	Spruce, Norway
PS	Pine, White

SYMBOL	COMMON NAME
SI	Siberian Iris

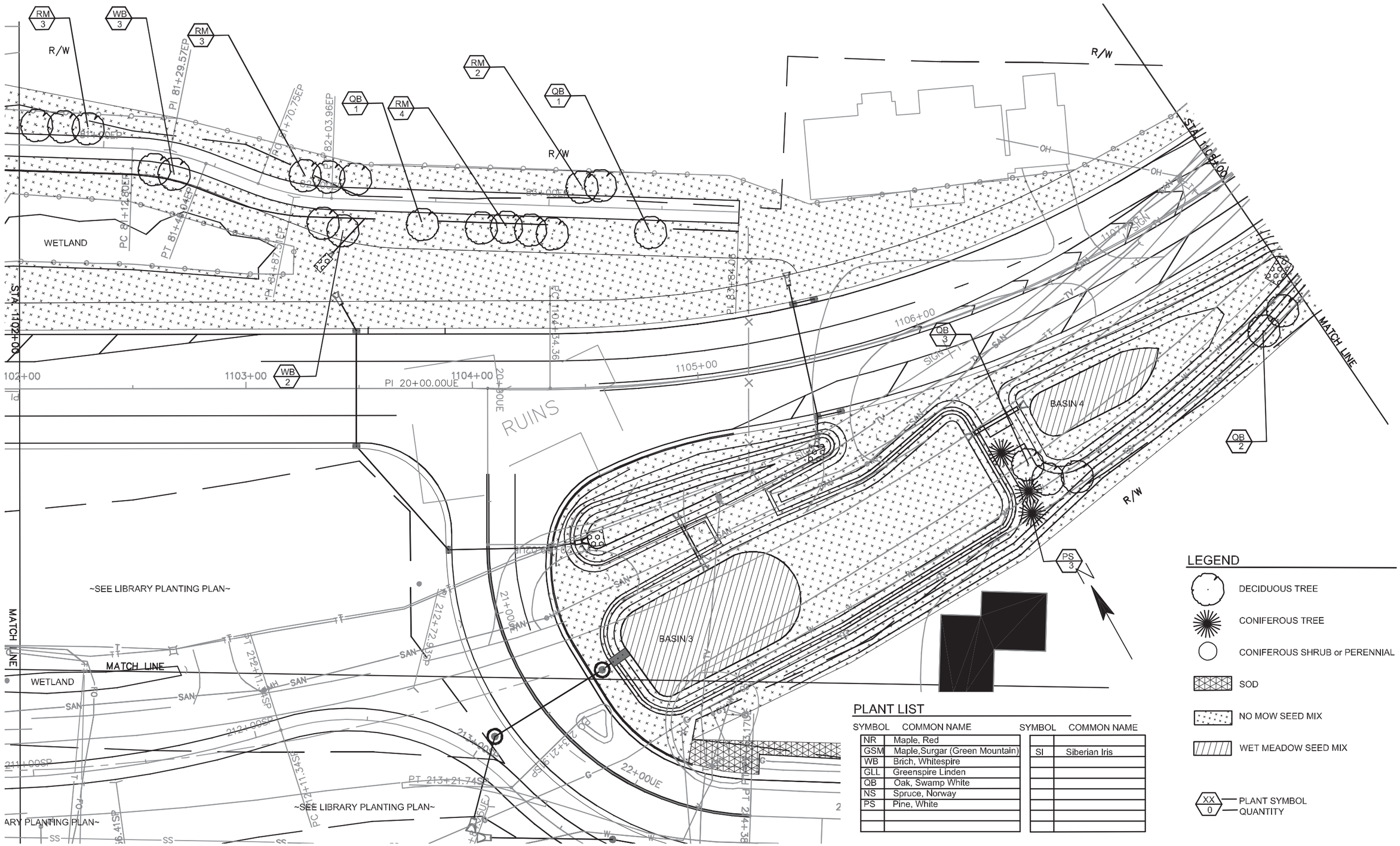


PROJECT NO: 9210–11–71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLANTING	SHEET No: 71	E

FILE NAME : _ PLOT DATE : PLOT BY : RGH PLOT NAME : PLOT SCALE : 40.0000 / In.

WISDOT/CADDS SHEET

2



LEGEND

- DECIDUOUS TREE
- CONIFEROUS TREE
- CONIFEROUS SHRUB or PERENNIAL
- SOD
- NO MOW SEED MIX
- WET MEADOW SEED MIX
- XX / 0 — PLANT SYMBOL / QUANTITY

PLANT LIST

SYMBOL	COMMON NAME
NR	Maple, Red
GSM	Maple,Surgar (Green Mountain)
WB	Brich, Whitespire
GLL	Greenspire Linden
QB	Oak, Swamp White
NS	Spruce, Norway
PS	Pine, White

SYMBOL	COMMON NAME
SI	Siberian Iris

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLANTING	SHEET No: 72	E

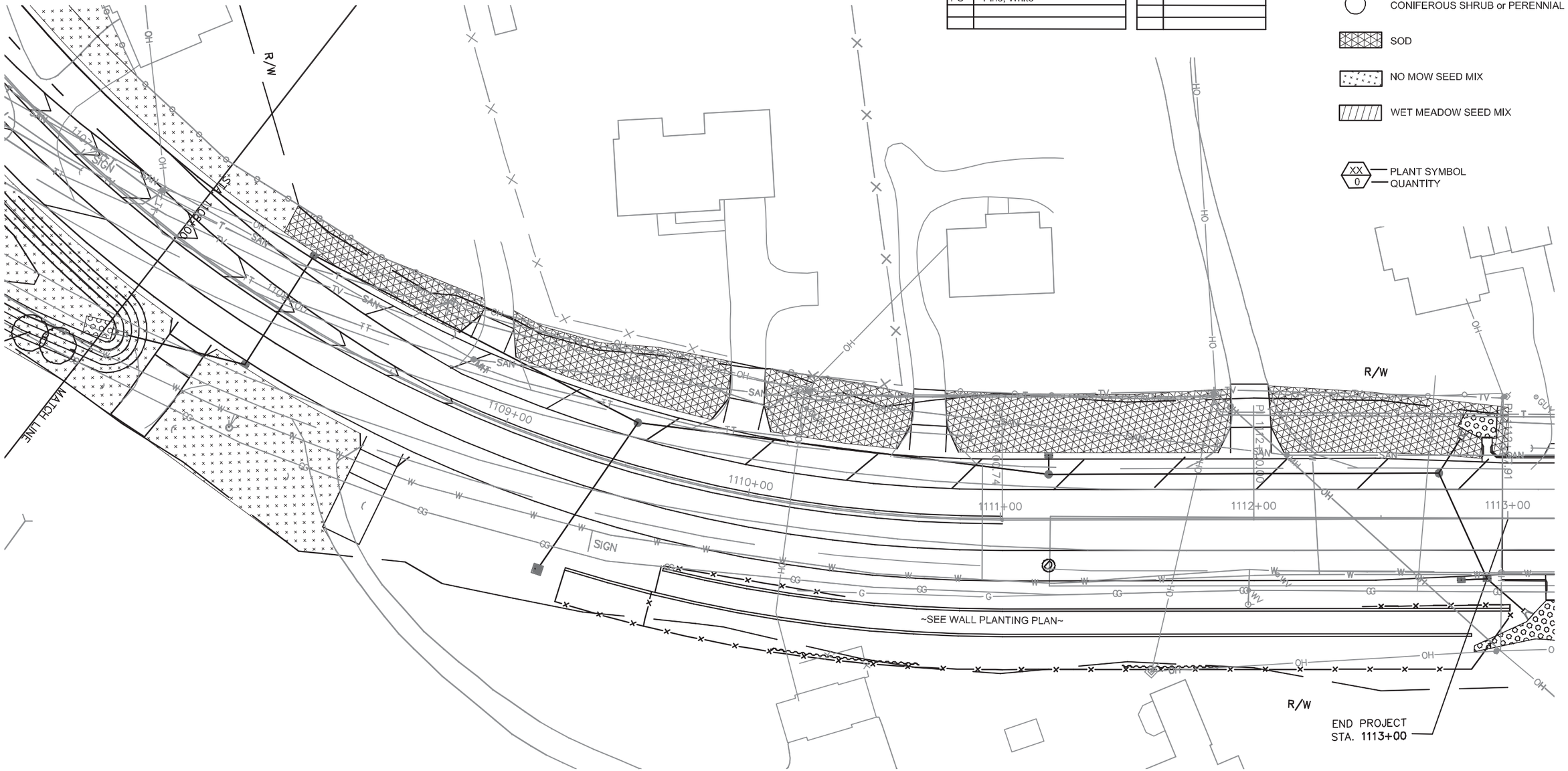
FILE NAME : _ PLOT DATE : PLOT BY : RGH PLOT NAME : PLOT SCALE : 40.0000 / In. WISDOT/CADDS SHEET

PLANT LIST

SYMBOL	COMMON NAME	SYMBOL	COMMON NAME
NR	Maple, Red		
GSM	Maple,Surgar (Green Mountain)	SI	Siberian Iris
WB	Brich, Whitespire		
GLL	Greenspire LInden		
QB	Oak, Swamp White		
NS	Spruce, Norway		
PS	Pine, White		

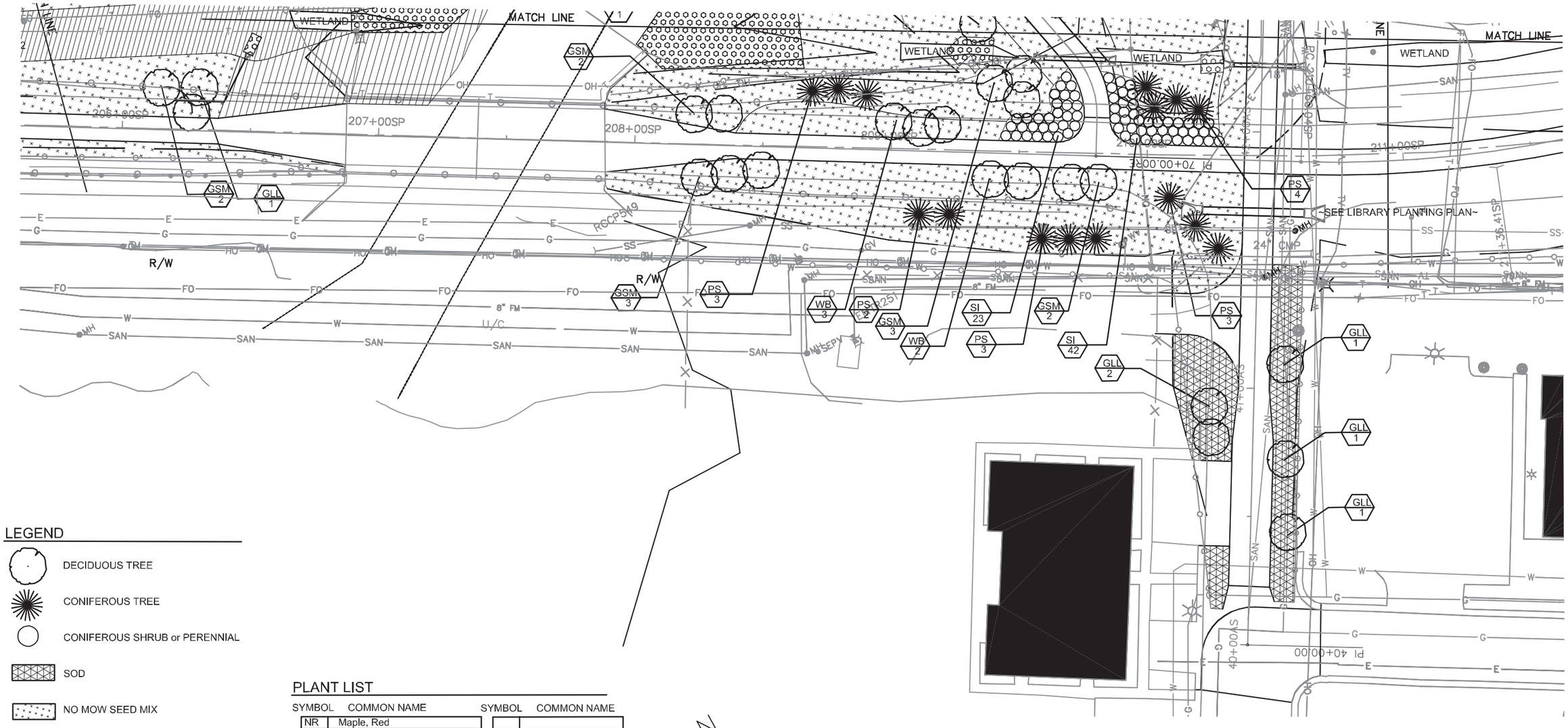
LEGEND

- DECIDUOUS TREE
- CONIFEROUS TREE
- CONIFEROUS SHRUB or PERENNIAL
- SOD
- NO MOW SEED MIX
- WET MEADOW SEED MIX
- XX / 0 — PLANT SYMBOL / QUANTITY



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLANTING	SHEET No: 73	E

FILE NAME : _ PLOT DATE : PLOT BY : RGH PLOT NAME : PLOT SCALE : 40.0000 / In. WISDOT/CADDS SHEET



LEGEND

- DECIDUOUS TREE
- CONIFEROUS TREE
- CONIFEROUS SHRUB or PERENNIAL
- SOD
- NO MOW SEED MIX
- WET MEADOW SEED MIX
- XX / 0 — PLANT SYMBOL / QUANTITY

PLANT LIST

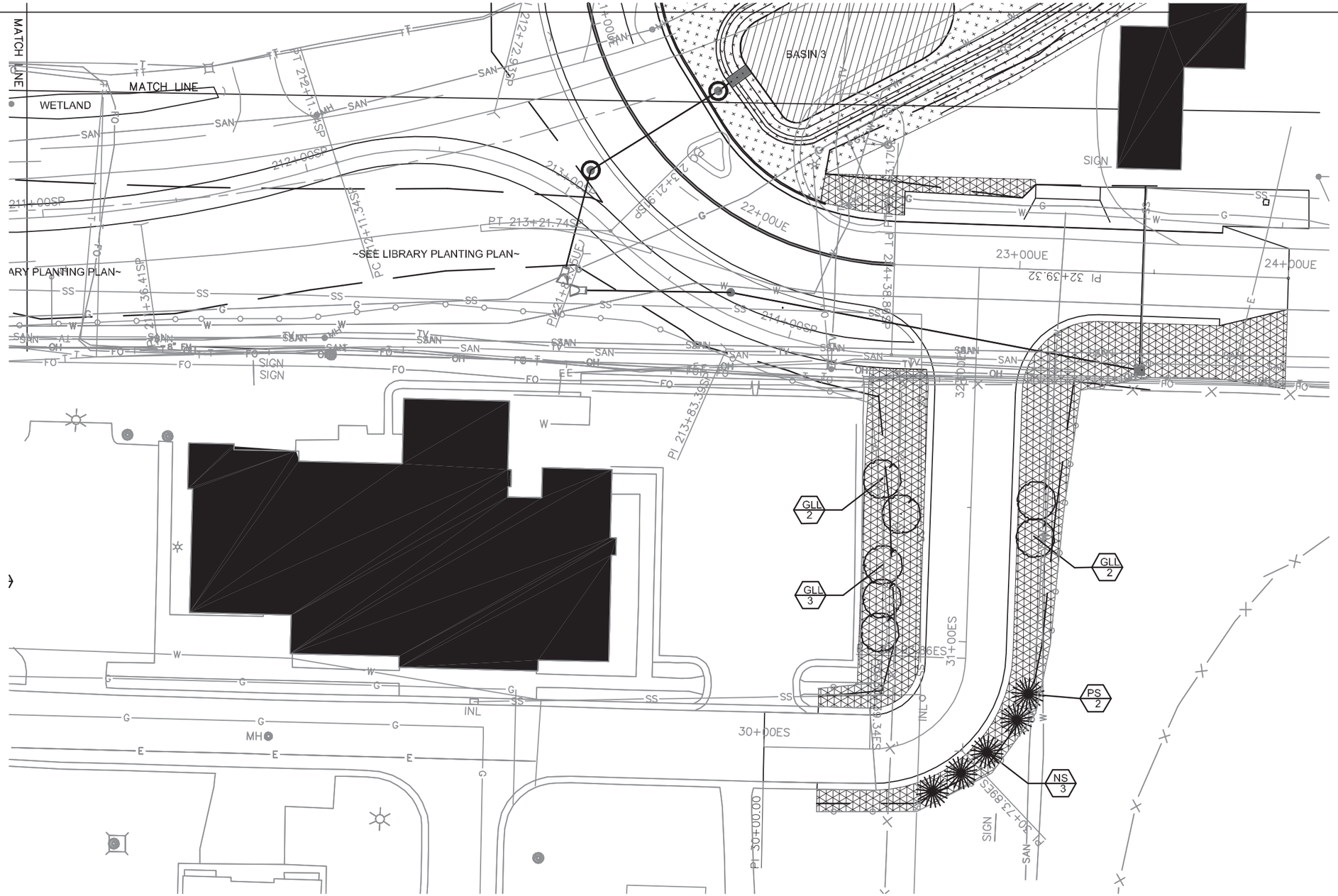
SYMBOL	COMMON NAME
NR	Maple, Red
GSM	Maple,Surgar (Green Mountain)
WB	Brich, Whitespire
GLL	Greenspire Linden
QB	Oak, Swamp White
NS	Spruce, Norway
PS	Pine, White

SYMBOL	COMMON NAME
SI	Siberian Iris

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLANTING	SHEET No: 74	E

FILE NAME : _ PLOT DATE : PLOT BY : RGH PLOT NAME : PLOT SCALE : 40.0000 / In. WISDOT/CADDS SHEET

2



LEGEND

- DECIDUOUS TREE
- CONIFEROUS TREE
- CONIFEROUS SHRUB or PERENNIAL
- SOD
- NO MOW SEED MIX
- WET MEADOW SEED MIX
- XX / 0 — PLANT SYMBOL / QUANTITY

PLANT LIST

SYMBOL	COMMON NAME
NR	Maple, Red
GSM	Maple,Surgar (Green Mountain)
WB	Brich, Whitespire
GLL	Greenspire Linden
QB	Oak, Swamp White
NS	Spruce, Norway
PS	Pine, White

SYMBOL	COMMON NAME
SI	Siberian Iris

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLANTING	SHEET No: 75	E

FILE NAME : _ PLOT DATE : PLOT BY : RGH PLOT NAME : PLOT SCALE : 40.0000 / In. WISDOT/CADDS SHEET

QTY.	SYM.	COMMON NAME	SCIENTIFIC NAME	TYPE	AVE. MATURE HEIGHT	SIZE (CAL. OR HT.) WHEN PLANTED	ROOT ZONE MODE	MINIMUM SIZE BALL/POT DIAM	BALL/POT DEPTH	ROOT SPREAD	PLANT DIAM	HOLE DEPTH	BRACE OR GUY	FERT. UNITS REQ'D	RODENT PROTCT REQ'D	MULCH RING DIAM.	PLT BED DTL
		LARGE DECIDUOUS TREES															
45	RM	MAPLE, RED	ACER RUBRUM	1	75'	2" CAL.	B&B	24"	16"	-	48"	16"	GUY	4	YES	60"	
54	GMS	MAPLE, SUGAR GREEN MOUNTAIN	ACER SACCHARUM	1	75'	2" CAL.	B&B	24"	16"	-	48"	16"	GUY	4	YES	60"	
38	GLL	GREENSPIRE LINDEN	TILIA CORDATA 'GREENSPIRE"	1	60'	2" CAL.	B&B	24"	16"	-	48"	16"	GUY	4	YES	60"	
33	QB	OAK, SWAMP WHITE	QUERCUS BICOLOR	1	60'	2" CAL.	B&B	24"	16"	-	48"	16"	GUY	4	YES	60"	
		MEDUM DECIDUOUS TREES															
35	WB	WHITESPIRE BIRCH	BETULA PLATPHYLLA "WHITESPIRE" (MULTI STEM)	1	40'	12' HT.	B&B	28"	19"	-	52"	19"	NO	4	NO	64"	
		LARGE EVERGREEN TREES															
5	NS	SPRUCE, NORWAY	PICEA ABIES	4	80'	6'HT.	B&B	22"	15"	-	46"	15"	NO	4	NO	58"	
41	PS	PINE, WHITE	PINUS STROBUS	4	90'	6'HT.	B&B	22"	15"	-	46"	15"	NO	4	NO	58"	
		PERENNIALS															
194	SI	SIBERIAN IRIS	IRIS SIBIRICA	-	3'	2-3 FAN HEAVY	#1 CONTAINER			5 EYE AND UP	ACCOM ROOTS			1	-		BED

BR: BARE ROOT
B&B: BALLED AND BURLAPPED
CG: CONTAINER GROWN

GROUND COVER / SEED	SF
SOD	24,322
NO MOW SEED MIX	235,396
WET MEADOW SEED MIX	8,451

PERENNIAL PLUG SCHEDULE

GRASSES PLUGS (40%)		BASIN				TOTAL
COMMON NAME	SCIENTIFIC NAME	#1	#2	#3	#4	
LITTLE BLUE STEM	SCHIZACHYRIUM SCOPARIUM	40	85	62	22	209
INDIAN GRASS	SORGASTRUM NUTANS	20	42	31	11	104
VIRGINIA WILD RYE	SAGITTARIA LATIFOLIA	20	42	31	11	104
	TOTAL GRASS PLUGS	80	169	124	44	417
FORBES PLUGS (60%)		BASIN				
COMMON NAME	SCIENTIFIC NAME	#1	#2	#3	#4	
WILD BERGAMONT	MONARDA FISTULOSA	15	32	44	8	99
BLUE FLAG IRIS	IRIS VERSIOCOLOR	15	32	44	8	99
PRAIRIE BLAZING STAR	LIATRIS PYCNOSTACHYA	15	32	44	8	99
BUTTERFLYWEED	ASCLEPIAS TUBEROSA	15	32	44	8	99
PALE PURPLE CONEFLOWER	ECHINACEA ANGUSTIFOLIA	15	32	44	8	99
YELLOW CONEFLOWER	RATIBIDIA PINNATA	15	32	44	8	99
	TOTAL FORB PLUGS	90	192	164	48	594

TOTAL PLUGS 1011

PERENIAL PLUG NOTES:

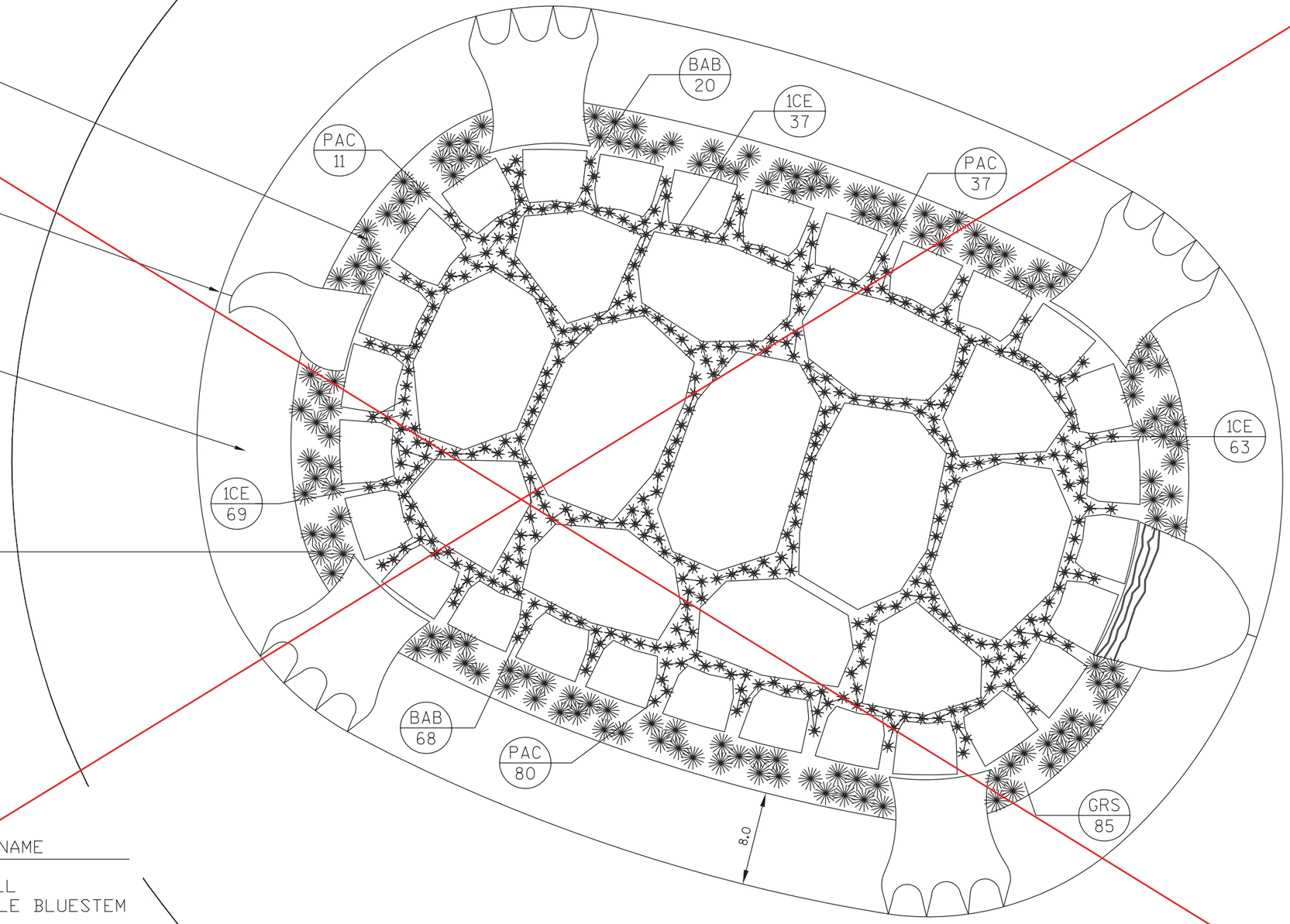
- PERENNIAL PLUG SPECIES TO BE RANDOMLY SPREAD IN THE BASIN IDENTIFIED PER PLAN AND PERENNIAL PLUG SCHEDULE AND SPACED @ 24" O.C.
- PLUG SIZES TO BE 2.5" - 3" POT
- AREAS TO BE SEEDED AND MULCHED PRIOR TO PLANTING OF PLUGS
- PLANT PLUGS IMMEDIATELY AFTER SEEDING OPERATIONS ARE COMPLETE

LITTLE BLUESTEM SHALL BE PLANTED IN CLUMPS OF 5-7 PLANTS.

1" FELT JOINT, TYP. AS SHOWN

NOTE: ON INNER RING COLORED CONCRETE SIDEWALK 5-INCH MATCH JOINTS AS PLACED ON THE TRUCK APRON

LITTLE BLUESTEM SHALL BE PLANTED IN CLUMPS OF 5-7



LEGEND

LITTLE BLUESTEM
SEDUM VARIETY

GRS 150 PLANT SYMBOL
QUANTITY

PLANT SCHEDULE
NUM SYM SCIENTIFIC NAME - COMMON NAME

GRS 150 PLANTS-OUTSIDE OF TURTLE SHELL
SCHIZACHYRUM SCOPARIUM - LITTLE BLUESTEM

SED 63 PLANT MIX-ON TURTLE SHELL
88 BAB SEDUM ALBUM CHLOROTICUM 'BABY TEARS'
169 ICE SEDUM ALBUM 'GREEN ICE'
128 PAC SEDUM 'PACHYCALDOS'

N

PROJECT NO: 9280-04-72	HWY: STH 54	COUNTY: BROWN	PLAN: ROUNDABOUT PLANTING PLAN - STH 54	0 5 10	SHEET 77	E

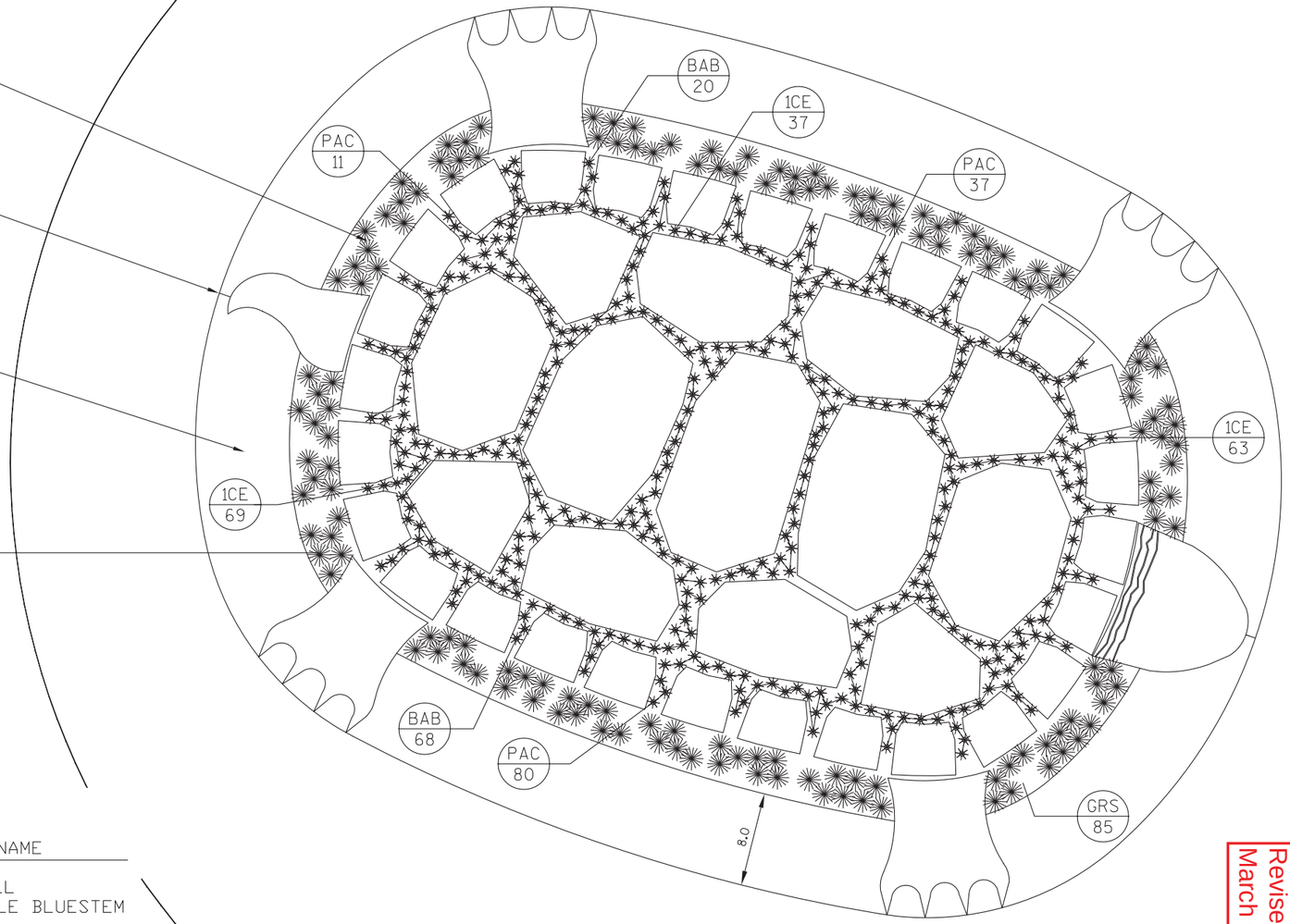
2

LITTLE BLUESTEM SHALL BE PLANTED IN CLUMPS OF 5-7 PLANTS.

1" FELT JOINT, TYP. AS SHOWN

NOTE: ON INNER RING COLORED CONCRETE SIDEWALK 5-INCH MATCH JOINTS AS PLACED ON THE TRUCK APRON

LITTLE BLUESTEM SHALL BE PLANTED IN CLUMPS OF 5-7



LEGEND

LITTLE BLUESTEM
SEDUM VARIETY

GRS 150 PLANT SYMBOL QUANTITY

PLANT SCHEDULE

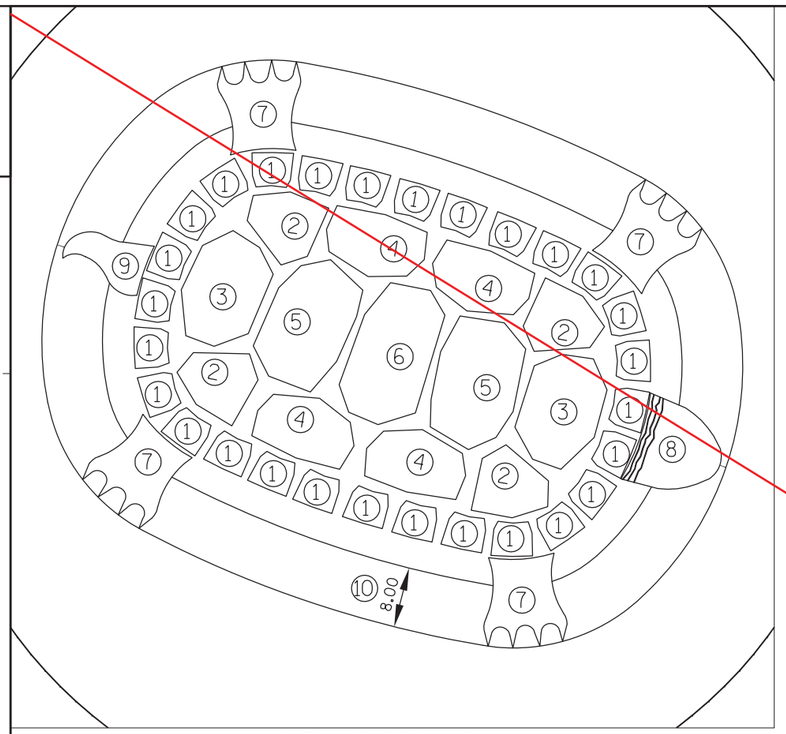
NUM	SYM	SCIENTIFIC NAME - COMMON NAME
GRS	150	PLANTS-OUTSIDE OF TURTLE SHELL
		SCHIZACHYRUM SCOPARIUM - LITTLE BLUESTEM
SED	385	PLANT MIX-ON TURTLE SHELL
88		BAB SEDUM ALBUM CHLOROTICUM 'BABY TEARS'
169		ICE SEDUM ALBUM 'GREEN ICE'
128		PAC SEDUM 'PACHYCALDOS'

Addendum No. 2
ID 9210-11-71
Revised Sheet 77
March 5, 2012

N

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	PLAN: ROUNDABOUT PLANTING PLAN - STH 54	0 5 10	SHEET 77 A	E

FILE NAME : X:\23046-70\10018\TECH\CADD\DWG\STH54 - ROUNDABOUTS.DWG PLOT DATE : 9/3/2008 9:36 AM PLOT BY : RUTH STEENO PLOT NAME : CG_STH172-ENTRANCE PLOT SCALE : **********



SHELL TYPES - PLAN

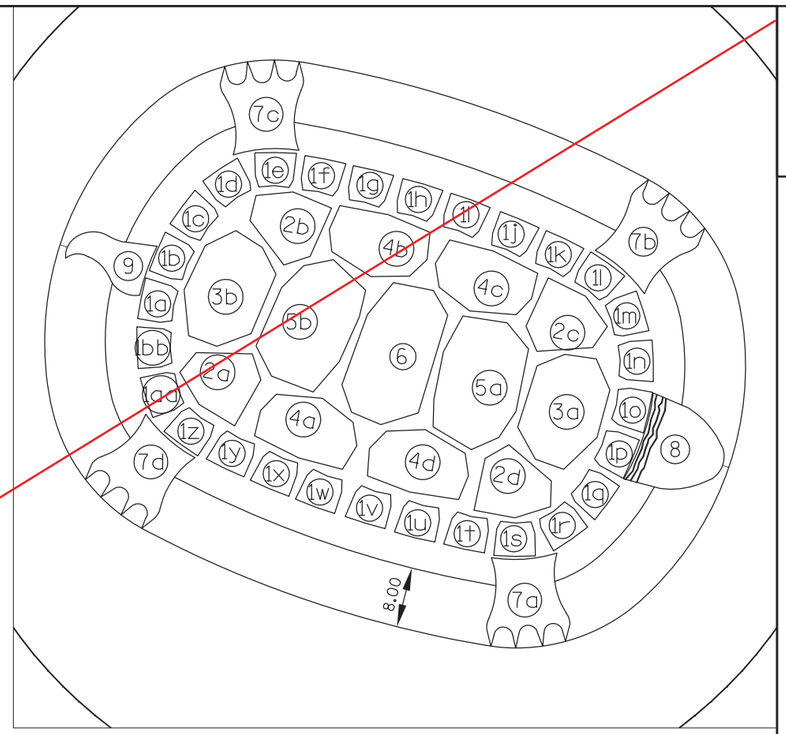
KEYED SHELL	NORTHING A	EASTING A	NORTHING B	EASTING B
1a	562328.75	53101.79	562332.37	53107.12
1b	562335.11	53103.32	562337.59	53109.27
1c	562341.26	53106.08	562342.28	53112.44
1d	562346.90	53110.39	562345.66	53116.70
1e	562350.65	53117.27	562346.06	53121.80
1f	562350.26	53123.88	562344.94	53127.52
1g	562348.95	53130.25	562343.46	53133.63
1h	562347.23	53136.80	562341.59	53139.92
1i	562345.30	53143.16	562339.49	53145.89
1j	562342.87	53149.69	562336.93	53152.21
1k	562340.37	53155.71	562334.31	53157.93
1l	562337.57	53161.62	562331.22	53162.73
1m	562332.41	53167.60	562326.65	53164.71
1n	562325.92	53169.69	562321.19	53165.31
1o	562319.03	53169.74	562315.51	53164.34
1p	562312.72	53168.02	562310.24	53162.06
1q	562306.64	53165.37	562305.62	53159.01

STH 54 SHELL DATA CHART

NUM	PAVEMENT THICKNESS	QUANTITY	SQUARE FEET	FEDERAL COLOR
1	4-INCH	28	23 SF EA	FS#30227
2	4-INCH	4	68 SF EA	FS#30227
3	4-INCH	2	129 SF EA	FS#30227
4	4-INCH	4	91 SF EA	FS#30227
5	4-INCH	2	161 SF EA	FS#30227
6	4-INCH	1	175 SF EA	FS#30227
7	5-INCH	4	85 SF EA	FS#37094
8	5-INCH	1	107 SF EA	FS#37094
9	5-INCH	1	51 SF EA	FS#37094
10	5-INCH	1	1638 SF EA	FS#33617

N

KEYED SHELL	NORTHING A	EASTING A	NORTHING B	EASTING B
1r	562301.23	53161.19	562302.31	53154.84
1s	562297.45	53154.29	562301.99	53149.72
1t	562297.85	53147.56	562303.23	53144.01
1u	562299.26	53141.01	562304.75	53137.63
1v	562301.05	53134.46	562306.69	53131.34
1w	562303.05	53127.79	562308.86	53125.00
1x	562305.32	53121.75	562311.25	53119.23
1y	562307.88	53115.84	562313.93	53113.61
1z	562310.65	53109.73	562317.01	53108.62
1aa	562315.69	53103.81	562321.46	53106.70
1bb	562322.16	53101.86	562326.89	53106.24
2a	562324.10	53116.91	562317.43	53109.89
2b	562335.85	53121.10	562345.46	53122.33
2c	562324.45	53154.49	562331.71	53160.92
2d	562312.11	53150.79	562302.46	53151.59
3a	562310.21	53154.27	562323.45	53162.32
3b	562325.09	53112.26	562340.38	53114.75



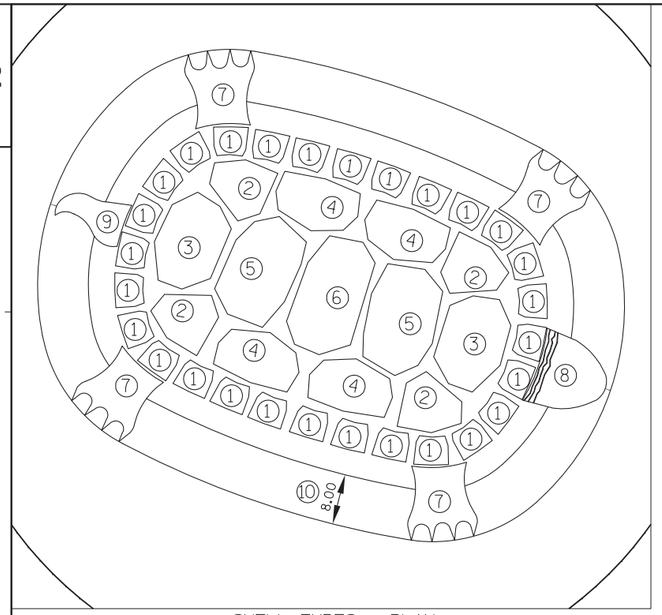
SHELL LOCATIONS - PLAN

KEYED SHELL	NORTHING A	EASTING A	NORTHING B	EASTING B
4a	562315.09	53130.23	562313.31	53117.24
4b	562334.35	53137.70	562343.67	53128.47
4c	562332.91	53141.60	562334.73	53154.58
4d	562313.89	53134.63	562304.88	53144.14
5a	562329.09	53144.71	562311.47	53145.81
5b	562319.07	53124.96	562336.52	53127.64
6	562314.76	53133.90	562333.50	53135.57
7a	562285.52	53148.42	562286.14	53158.24
7b	562347.10	53169.21	562340.66	53176.64
7c	562362.65	53123.12	562362.03	53113.31
7d	562301.07	53102.34	562307.51	53094.91
8	562307.59	53165.93	562318.93	53169.85
9	562338.29	53104.37	562331.84	53102.06

NOTE

SEE SHELL DETAIL SHEETS FOR NORTHING/EASTING LOCATIONS

2



SHELL TYPES - PLAN

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1d	562346.90	53110.39	562345.66	53116.70
1e	562350.65	53117.27	562346.06	53121.80
1f	562350.26	53123.88	562344.94	53127.52
1g	562348.95	53130.25	562343.46	53133.63
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1i	562345.30	53143.16	562339.49	53145.89
1j	562342.87	53149.69	562336.93	53152.21
1k	562340.37	53155.71	562334.31	53157.93
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1n	562325.92	53169.69	562321.19	53165.31
1o	562319.03	53169.74	562315.51	53164.34
1p	562312.72	53168.02	562310.24	53162.06
1q	562306.64	53165.37	562305.62	53159.01

N

STH 54 SHELL DATA CHART				
NUM	PAVEMENT THICKNESS	QUANTITY	SQUARE FEET	FEDERAL COLOR
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6	4-INCH	1	175 SF EA	FS#30227
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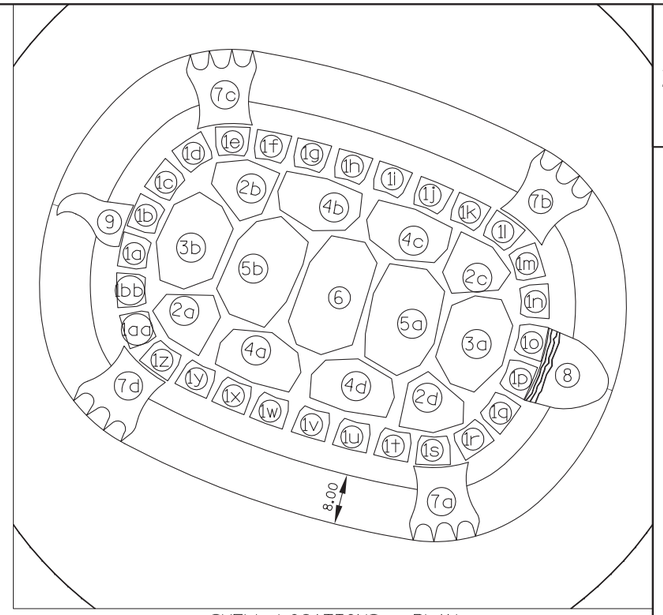
8	5-INCH	1	107 SF EA	FS#37094
9	5-INCH	1	51 SF EA	FS#37094
10	5-INCH	1	1638 SF EA	FS#33617

KEYED SHELL	NORTHING A	EASTING A	NORTHING B	EASTING B
1r	562301.23	53161.19	562302.31	53154.84
1s	562297.45	53154.29	562301.99	53149.72
1t	562297.85	53147.56	562303.23	53144.01
1u	562299.26	53141.01	562304.75	53137.63
1v	562301.05	53134.46	562306.69	53131.34
1w	562303.05	53127.79	562308.86	53125.00
1x	562305.32	53121.75	562311.25	53119.23
1y	562307.88	53115.84	562313.93	53113.61
1z	562310.65	53109.73	562317.01	53108.62
1aa	562315.69	53103.81	562321.46	53106.70
1bb	562322.16	53101.86	562326.89	53106.24
2a	562324.10	53116.91	562317.43	53109.89
2b	562335.85	53121.10	562345.46	53122.33
2c	562324.45	53154.49	562331.71	53160.92
2d	562312.11	53150.79	562302.46	53151.59
3a	562310.21	53154.27	562323.45	53162.32
3b	562325.09	53112.26	562340.38	53114.75



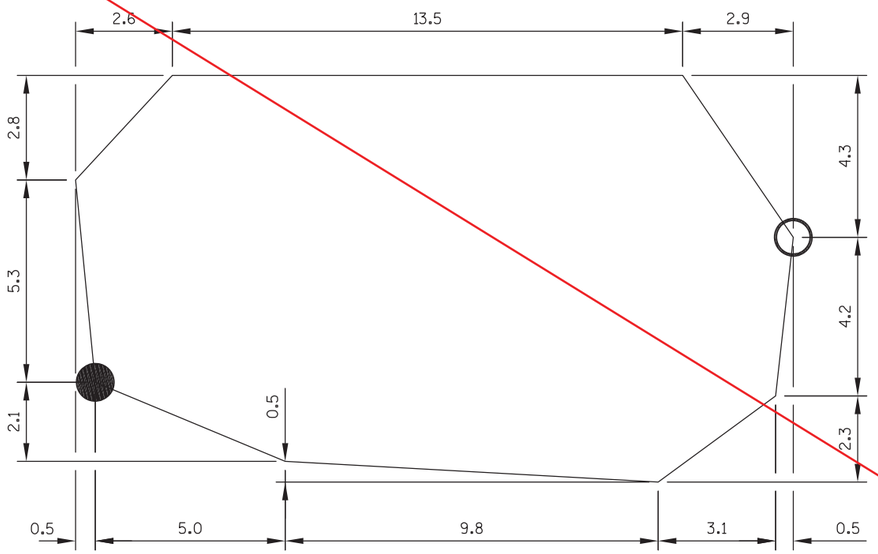
SHELL LOCATIONS - PLAN

KEYED SHELL	NORTHING A	EASTING A	NORTHING B	EASTING B
4a	562315.09	53130.23	562313.31	53117.24
4b	562334.35	53137.70	562343.67	53128.47
4c	562332.91	53141.60	562334.73	53154.58
4d	562313.89	53134.63	562304.88	53144.14
5a	562329.09	53144.71	562311.47	53145.81
5b	562319.07	53124.96	562336.52	53127.64
6	562314.76	53133.90	562333.50	53135.57
7a	562285.52	53148.42	562286.14	53158.24
7b	562347.10	53169.21	562340.66	53176.64
7c	562362.65	53123.12	562362.03	53113.31
7d	562301.07	53102.34	562307.51	53094.91
8	562307.59	53165.93	562318.93	53169.85
9	562338.29	53104.37	562331.84	53102.06

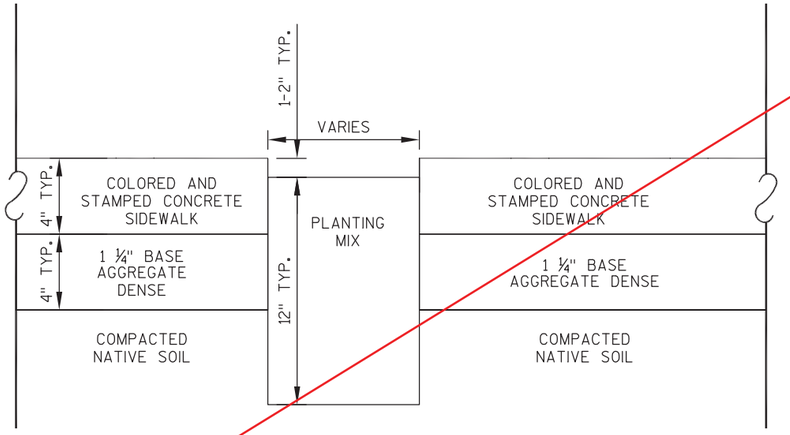
NOTE

SEE SHELL DETAIL SHEETS FOR NORTHING/EASTING LOCATIONS

Addendum No. 2, ID 9210-11-71
Revised Sheet 78, March 5, 2012



KEY #6 SHELL DETAIL - PLAN



TYPICAL SHELL RIDGE DETAIL - PROFILE

LEGEND

NORTHING/EASTING A

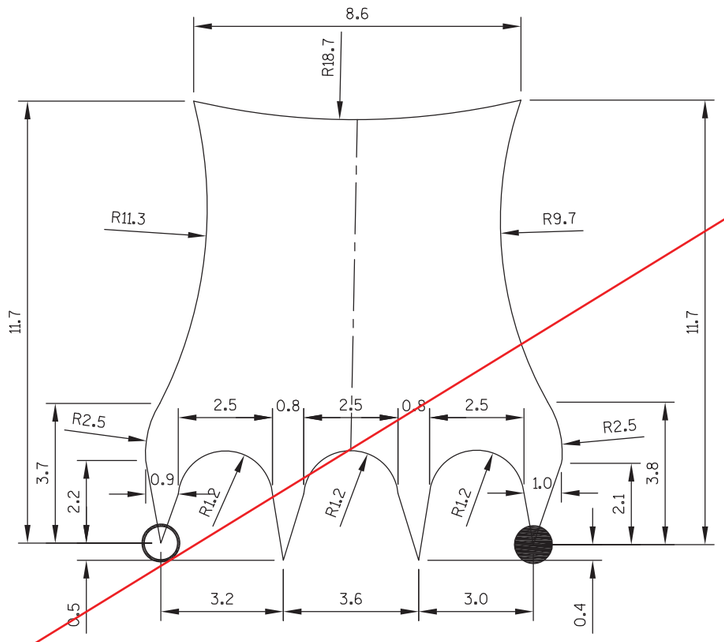
NORTHING/EASTING B

#6 SHELL NOTE: FIELD FIT SHELL TO FIT APEX OF ROUNDABOUT CONTOURS

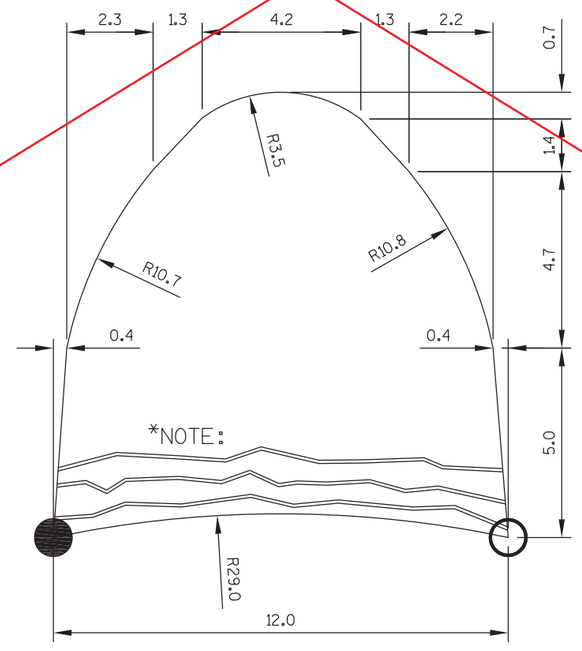
*NOTE: THE THREE NECK FOLDS OF TURTLE HEAD TO BE SCORED ½" x 2" TYP. IN AN IRREGULAR PATTERN AS SHOWN.

GENERAL CONCRETE NOTES:

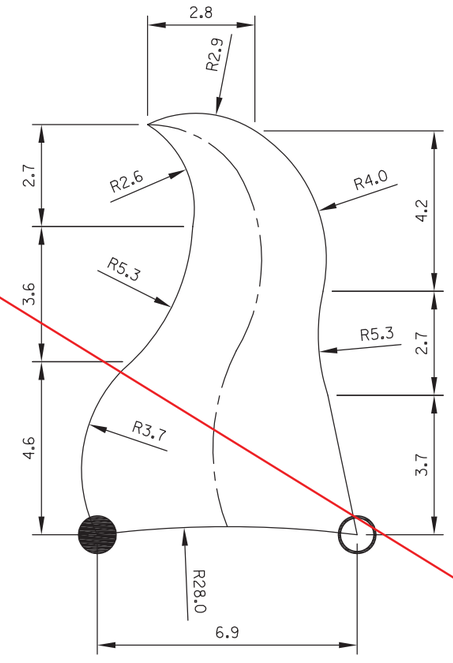
- SURFACE EDGE OF THE CONCRETE TO BE FINISHED WITH ROUNDED EDGES.
- CONCRETE THICKNESS INCREASES 1"-2" FROM THE EDGE OF CONCRETE TO THE CENTERLINE SHOWN ON SHELL DETAILS 7, 8, 9.
- IF POINTS OF TOES ON FEET DO NOT REACH EDGE OF APRON, PROVIDE SMALL JOINT TO CONNECT.



KEY #7 FOOT DETAIL - PLAN

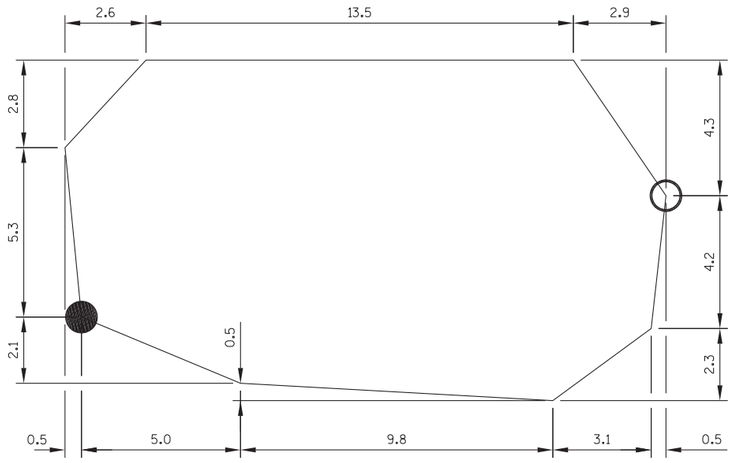


KEY #8 HEAD DETAIL - PLAN

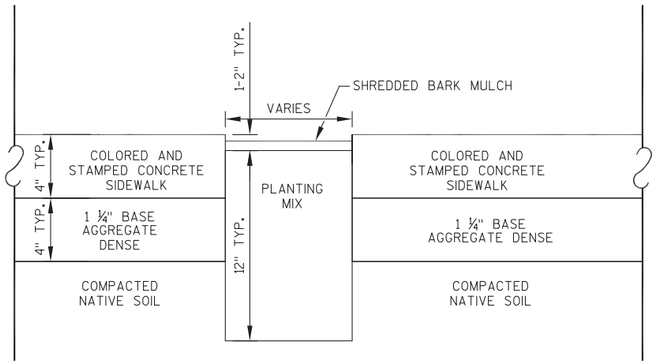


KEY #9 HEAD DETAIL - PLAN

PROJECT NO: 9280-04-72	HWY: STH 54	COUNTY: BROWN	PLAN: SHELL DETAILS - STH 54	SHEET 79	E



KEY #6 SHELL DETAIL - PLAN



TYPICAL SHELL RIDGE DETAIL - PROFILE

LEGEND

NORTHING/EASTING A ○

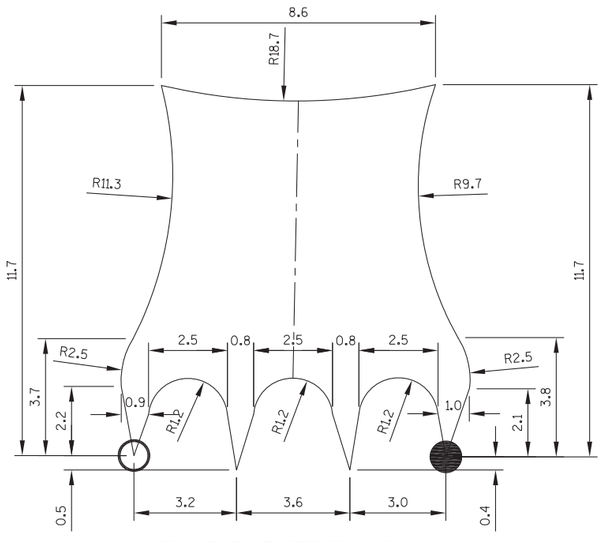
NORTHING/EASTING B ●

#6 SHELL NOTE: FIELD FIT SHELL TO FIT APEX OF ROUNDABOUT CONTOURS

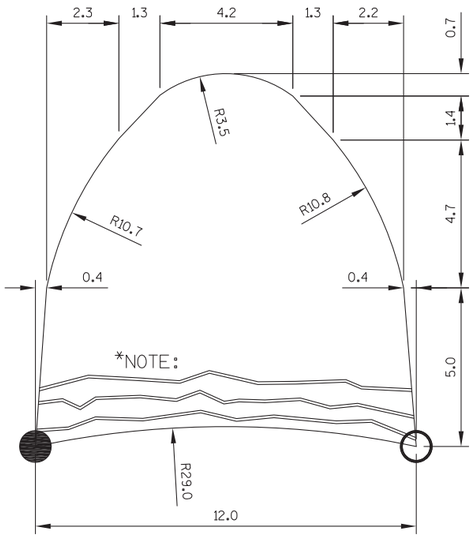
*NOTE: THE THREE NECK FOLDS OF TURTLE HEAD TO BE SCORED ½" x 2" TYP. IN AN IRREGULAR PATTERN AS SHOWN.

GENERAL CONCRETE NOTES:

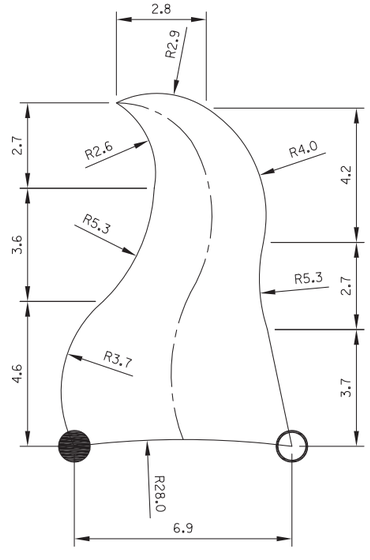
- SURFACE EDGE OF THE CONCRETE TO BE FINISHED WITH ROUNDED EDGES.
- CONCRETE THICKNESS INCREASES 1"-2" FROM THE EDGE OF CONCRETE TO THE CENTERLINE SHOWN ON SHELL DETAILS 7, 8, 9.
- IF POINTS OF TOES ON FEET DO NOT REACH EDGE OF APRON, PROVIDE SMALL JOINT TO CONNECT.



KEY #7 FOOT DETAIL - PLAN



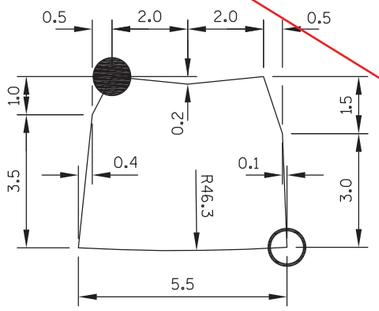
KEY #8 HEAD DETAIL - PLAN



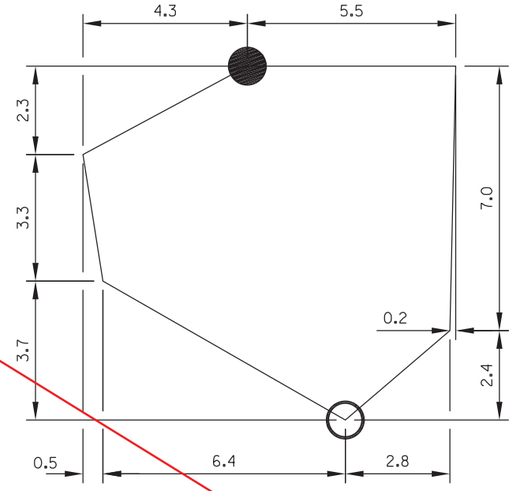
KEY #9 HEAD DETAIL - PLAN

Addendum No. 2
ID 9210-11-71
Revised Sheet 79
March 5, 2012

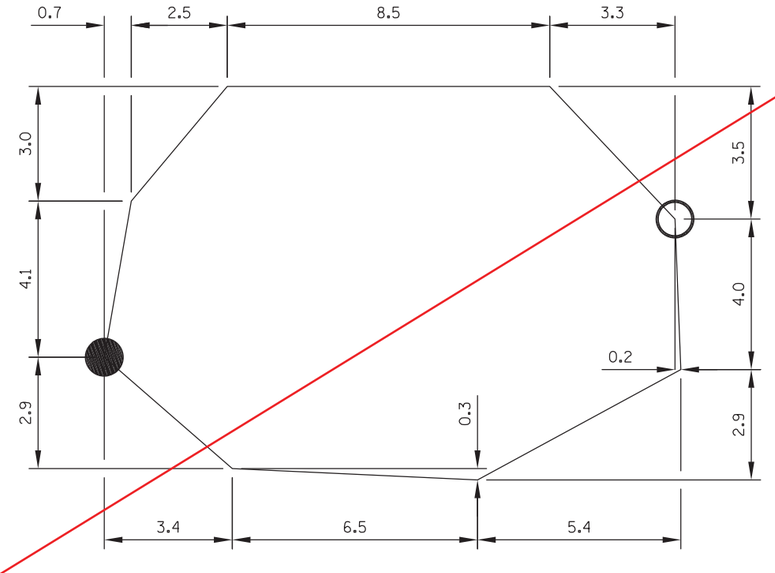
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	PLAN: SHELL DETAILS - STH 54	SHEET 79 A	E



KEY #1 SHELL DETAIL - PLAN

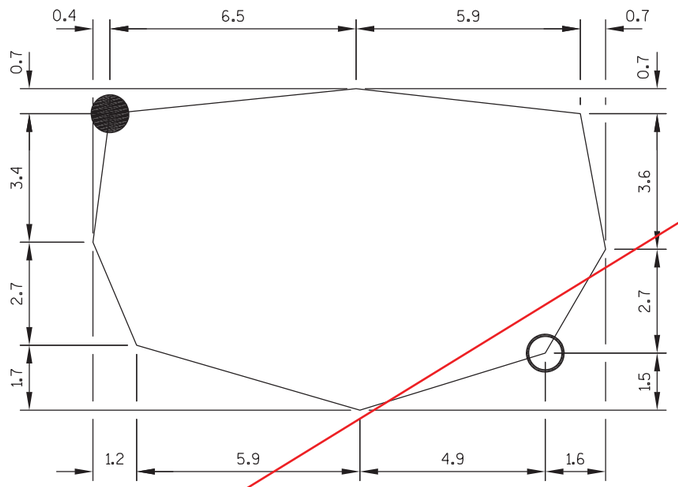


KEY #2 SHELL DETAIL - PLAN



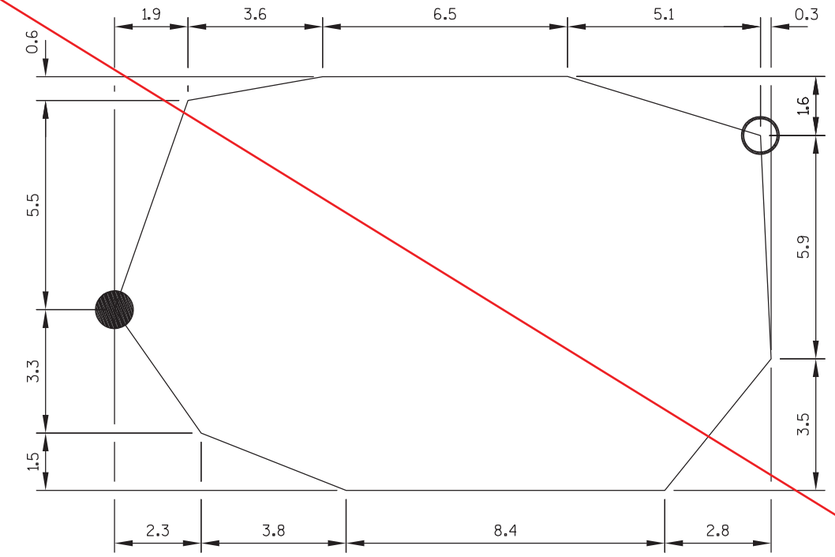
KEY #3 SHELL DETAIL - PLAN

GENERAL CONCRETE NOTES:
- SURFACE EDGE OF THE CONCRETE TO BE FINISHED WITH ROUNDED EDGES.



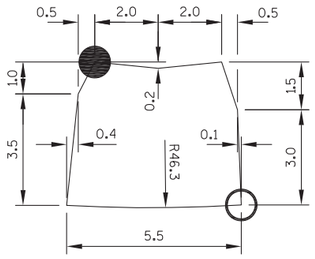
KEY #4 SHELL DETAIL - PLAN

LEGEND
NORTHING/EASTING A
NORTHING/EASTING B

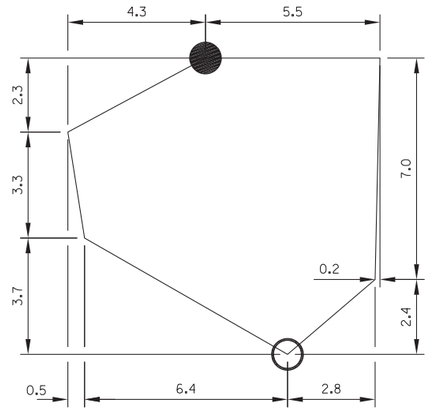


KEY #5 SHELL DETAIL - PLAN

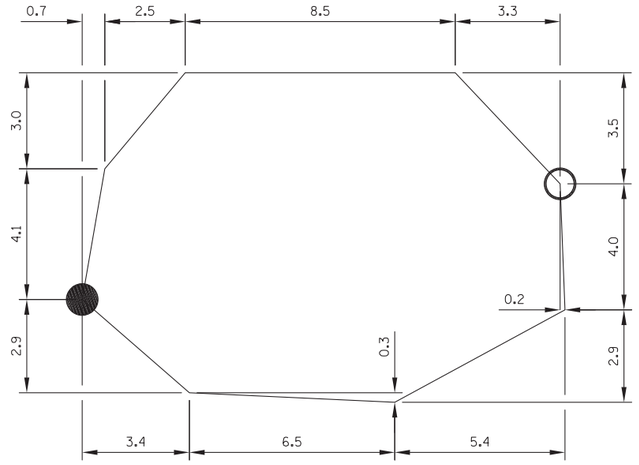
PROJECT NO: 9280-04-72	HWY: STH 54	COUNTY: BROWN	PLAN: SHELL DETAILS - STH 54	SHEET 80	E



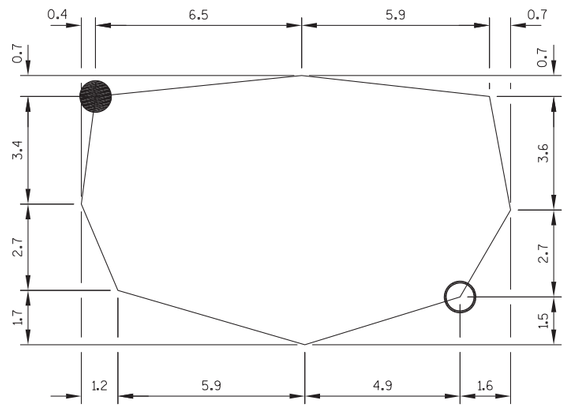
KEY #1 SHELL DETAIL - PLAN



KEY #2 SHELL DETAIL - PLAN



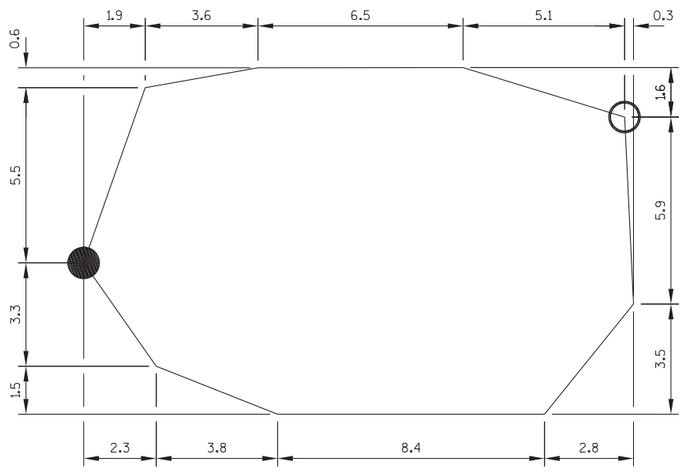
KEY #3 SHELL DETAIL - PLAN



KEY #4 SHELL DETAIL - PLAN

GENERAL CONCRETE NOTES:
- SURFACE EDGE OF THE CONCRETE TO BE FINISHED WITH ROUNDED EDGES.

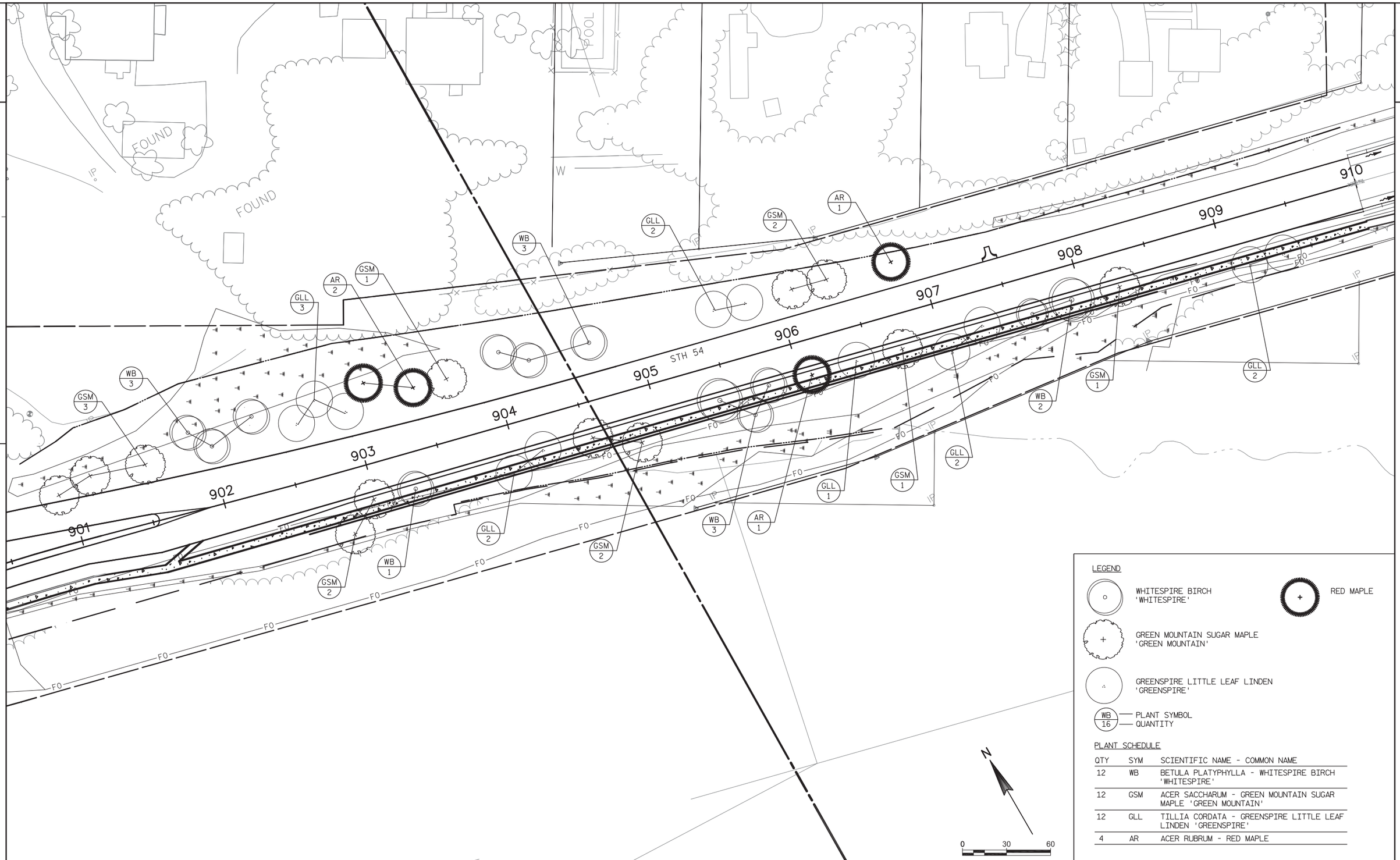
LEGEND
NORTHING/EASTING A
NORTHING/EASTING B



KEY #5 SHELL DETAIL - PLAN

Addendum No. 2
ID 9210-11-71
Revised Sheet 80
March 5, 2012

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	PLAN: SHELL DETAILS - STH 54	SHEET 80 A	E



LEGEND

- WHITESPIRE BIRCH 'WHITESPIRE'
- RED MAPLE
- GREEN MOUNTAIN SUGAR MAPLE 'GREEN MOUNTAIN'
- GREENSPIRE LITTLE LEAF LINDEN 'GREENSPIRE'
- WB / 16 — PLANT SYMBOL / QUANTITY

PLANT SCHEDULE

QTY	SYM	SCIENTIFIC NAME - COMMON NAME
12	WB	BETULA PLATYPHYLLA - WHITESPIRE BIRCH 'WHITESPIRE'
12	GSM	ACER SACCHARUM - GREEN MOUNTAIN SUGAR MAPLE 'GREEN MOUNTAIN'
12	GLL	TILLIA CORDATA - GREENSPIRE LITTLE LEAF LINDEN 'GREENSPIRE'
4	AR	ACER RUBRUM - RED MAPLE

PROJECT NO: 9210-11-71	HWY: STH 172/54	COUNTY: BROWN	PLAN: PLANTING PLAN-DRAINAGE AREA	SHEET 81	E

FILE NAME : X:\23046-70\10018\TECH\CADD\DWG\STH_54_LIBRARY PLANTING.DWG PLOT DATE : 9/3/2008 9:36 AM PLOT BY : RUTH STEENO PLOT NAME:STH_54 LIBRARY PLANTING PLOT SCALE : ****

2

LEGEND

NORWAY SPRUCE

SERVICEBERRY

RED MAPLE

WHITE PINE

GREEN MOUNTAIN SUGAR MAPLE 'GREEN MOUNTAIN'

WHITESPIRE BIRCH

HAWTHORN

WB 16 — PLANT SYMBOL / QUANTITY

PLANT SCHEDULE

QTY	SYM	SCIENTIFIC NAME - COMMON NAME
20	NS	PICEA ABIES - NORWAY SPRUCE
6	AR	ACER RUBRUM - RED MAPLE
7	GSM	ACER SACCHARUM - GREEN MOUNTAIN SUGAR MAPLE 'GREEN MOUNTAIN'
6	A	AMELANCHIER X - SERVICEBERRY
12	PS	PINUS STROBUS - WHITE PINE
8	WB	BETULA PLATYPHYLLA - WHITESPIRE BIRCH
3	CH	CRATAEGUS CRUSGALLI IHERMIS - THORNLESS COCKSPUR HAWTHORN
5,300 SF		SOD LAWN
34,700 SF		SPECIAL LOW MAINTENANCE SEED MIX
3,300 SF		SPECIAL WET MEADOW SEED MIX

STH 54

SOUTH SHARED PATH

CTH U/EAST SERVICE ROAD

ELM STREET

RUINS

ONEIDA-SEWER

NSIGHT

WPS GAS

ONEIDA-WATER

ONEIDA-SEWER

ONEIDA-COMMUNICATIONS

TIME WARNER CABLE

LAWN SOD

24" CMP

8" FM

0 20 40

PROJECT NO: 9210-11-71	HWY: STH 172/54	COUNTY: BROWN	PLAN: LIBRARY GREEN	SHEET 82	E

2

STH 54

679.950
681.871
N=561430.000
E=56055.000

676.661
681.067
N=561480.000
E=55955.000

683.068
680.049
N=561380.000
E=56105.000

ONEIDA-SEWER

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E=56005.000

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E=56055.000

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NSIGHT

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SOUTH SHARED PATH

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CTH U/EAST SERVICE ROAD

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NSIGHT
WPS GAS
ONEIDA-WATER
ONEIDA-SEWER
ONEIDA-COMMUNICATIONS

TIME WARNER CABLE

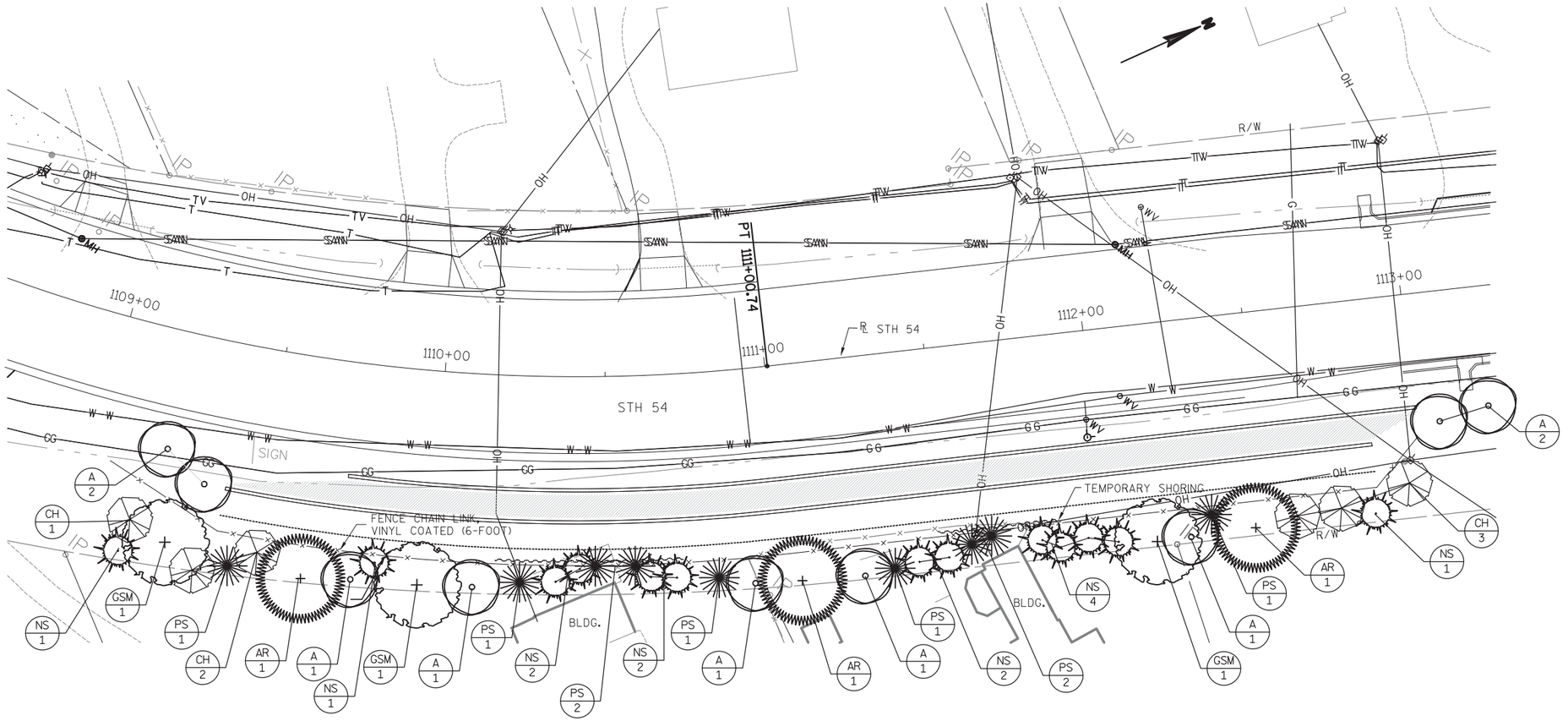
ELM STREET

0 20 40

PROJECT NO: 9210-11-71	HWY: STH 172/54	COUNTY: BROWN	PLAN: LIBRARY GREEN	SHEET 83	E

FILE NAME : X:\23046-70\10018\TECH\CADD\DWG\STH_54_LIBRARY PLANTING.DWG PLOT DATE : 9/3/2008 9:36 AM PLOT BY : RUTH STEENO PLOT NAME:STH_54_LIBRARY PLANTING PLOT SCALE : 1:40_XREF

WISDOT/CADDS SHEET 42



LEGEND

- GREEN MOUNTAIN SUGAR MAPLE 'GREEN MOUNTAIN'
- RED MAPLE
- SERVICEBERRY
- HAWTHORN
- WHITE PINE
- NORWAY SPRUCE
- AR / 1 — PLANT SYMBOL / QUANTITY

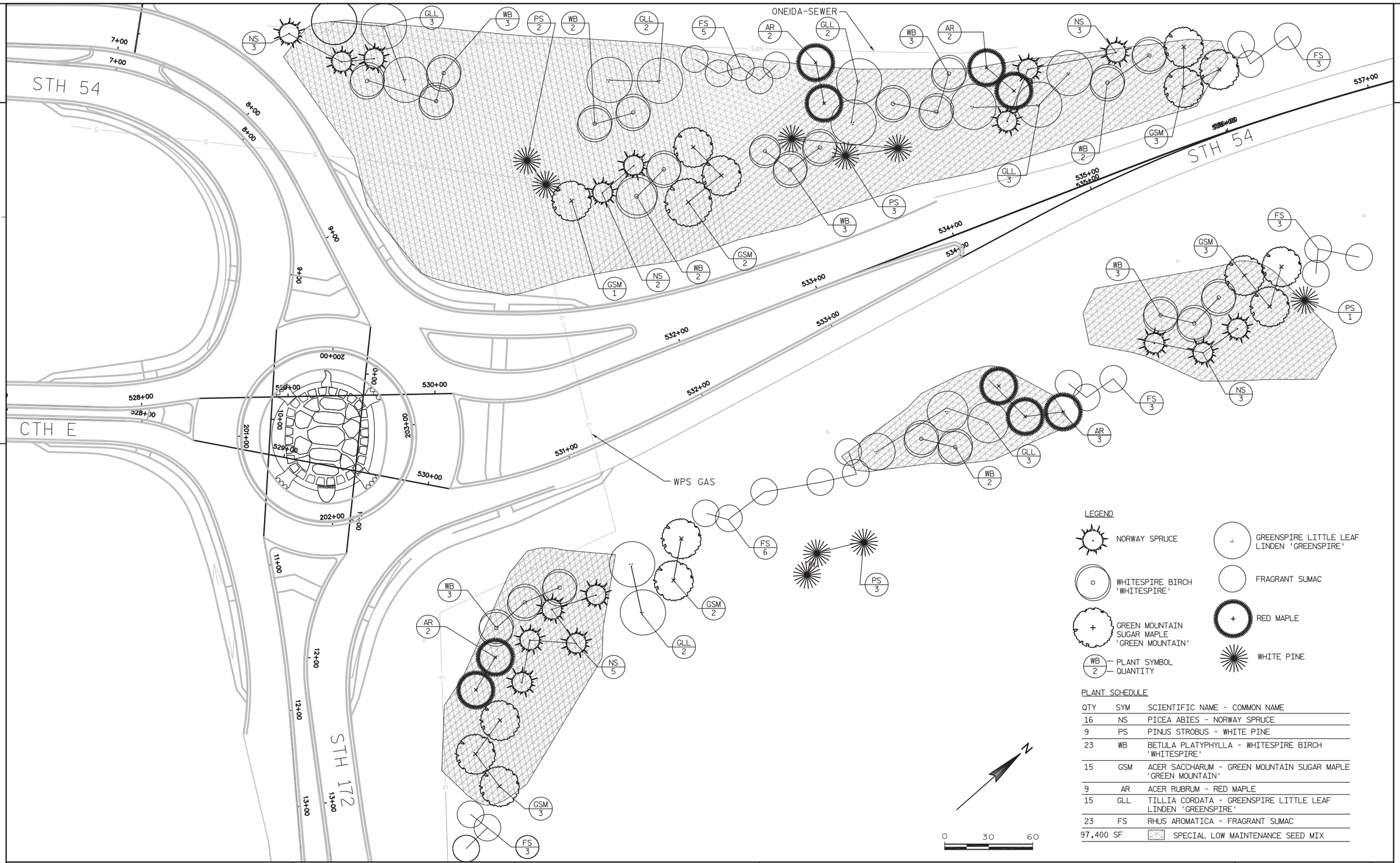
PLANT SCHEDULE

QTY	SYM	SCIENTIFIC NAME - COMMON NAME
3	GSM	ACER SACCHARUM - GREEN MOUNTAIN SUGAR MAPLE 'GREEN MOUNTAIN'
3	AR	ACER RUBRUM - RED MAPLE
9	A	AMELANCHIER X - SERVICEBERRY
6	CH	CRATAEGUS CRUSGALLI IHERMIS - THORNLESS COCKSPUR HAWTHORN
13	NS	PICEA ABIES - NORWAYSPRUCE
9	PS	PINUS STROBUS - WHITE PINE

N

0 20 40

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	PLAN: RETAINING WALL	SHEET 84	E



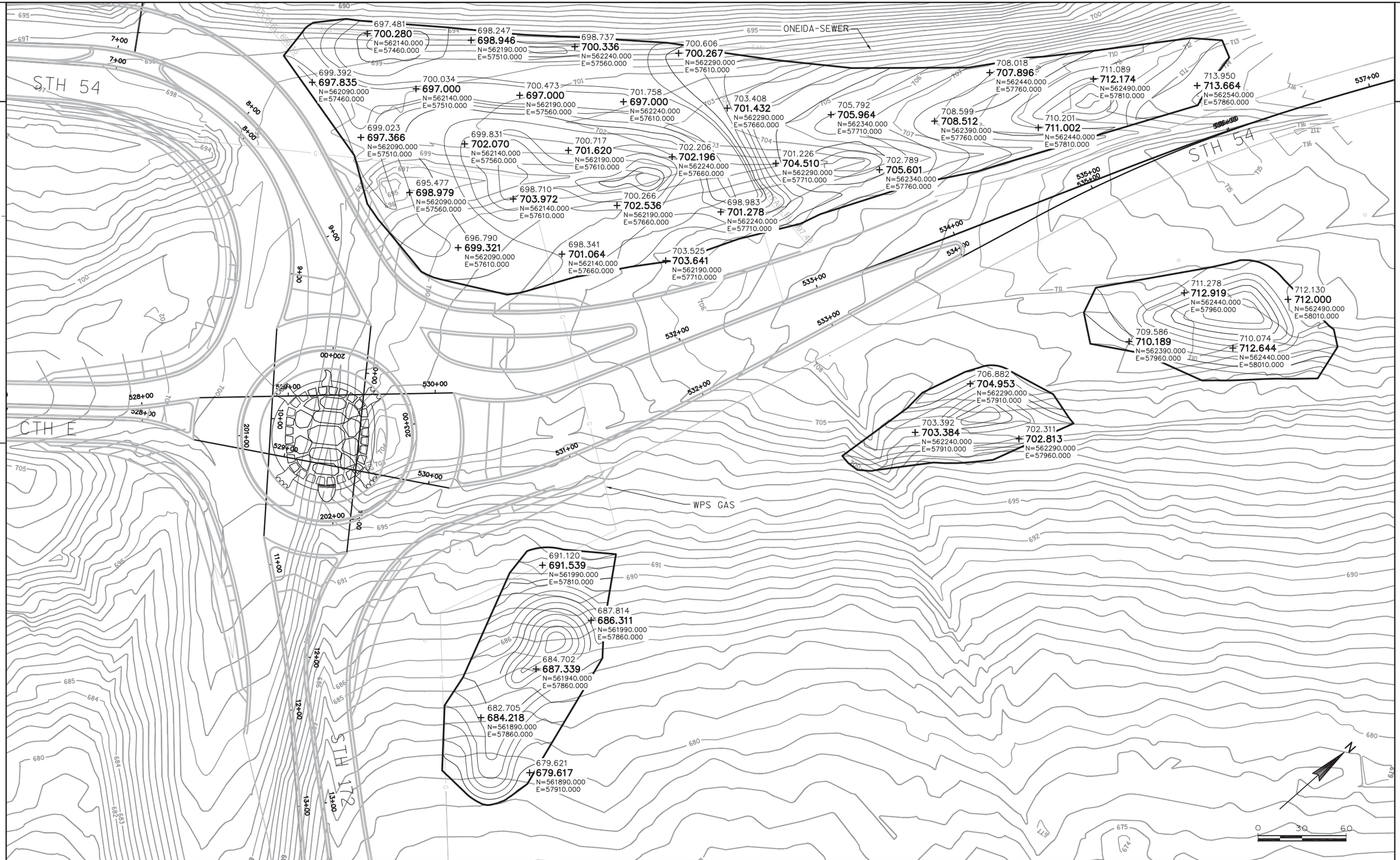
LEGEND

- NORWAY SPRUCE
- GREENSPIRE LITTLE LEAF LINDEN 'GREENSPIRE'
- WHITESPIRE BIRCH 'WHITESPIRE'
- FRAGRANT SUMAC
- GREEN MOUNTAIN SUGAR MAPLE 'GREEN MOUNTAIN'
- RED MAPLE
- WHITE PINE
- WB 2 — PLANT SYMBOL / QUANTITY

PLANT SCHEDULE

QTY	SYM	SCIENTIFIC NAME - COMMON NAME
16	NS	PICEA ABIES - NORWAY SPRUCE
9	PS	PINUS STROBUS - WHITE PINE
23	WB	BETULA PLATYPHYLLA - WHITESPIRE BIRCH 'WHITESPIRE'
15	GSM	ACER SACCHARUM - GREEN MOUNTAIN SUGAR MAPLE 'GREEN MOUNTAIN'
9	AR	ACER RUBRUM - RED MAPLE
15	GLL	TILLIA CORDATA - GREENSPIRE LITTLE LEAF LINDEN 'GREENSPIRE'
23	FS	RHUS AROMATICA - FRAGRANT SUMAC
97,400 SF		SPECIAL LOW MAINTENANCE SEED MIX

PROJECT NO: 9210-11-71	HWY: STH 172/54	COUNTY: BROWN	PLAN: ENTRANCE STATEMENT - PLANTING	SHEET 85	E



PROJECT NO: 23046-70-10018	HWY: STH 172/54	COUNTY: BROWN	PLAN: ENTRANCE STATEMENT-GRADING NORTH	SHEET 86	E

FILE NAME : X:\23046-70\10018\TECH\CADD\DWG\STH_54 - ENTRANCE STATEMENTS.DWG PLOT DATE : 9/3/2008 9:36 AM PLOT BY : RUTH STEENO PLOT NAME : CG_STH172-Entrance PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

PLANT DATA CHART

SYM	COMMON NAME	SCIENTIFIC NAME	TYPE	AVE. MATURE HEIGHT	AVERAGE SIZE WHEN PLANTED	ASNS CONTAINER SIZE	ROOT ZONE MODE	MINIMUM BALL OR POT SIZE		MINIMUM HOLE SIZE		BRACE OR GUY	FERT UNITS REQ'D	RODENT PROTECT	MULCH RING DIAM.
								DIAM.	DEPTH	DIAM.	DEPTH				
DECIDUOUS & EVERGREEN TREES															
PS	WHITE PINE	PINUS STROBUS	4E	70'	8' HT	20"	B&B	32"	19"	56"	19"	BRACE	2	N/A	68"
GLL	GREENSPIRE LITTLE LEAF LINDEN	TILLIA CORDATA	2T	40'	3-INCH CAL	20"	B&B	32"	19"	56"	19"	BRACE	2	N/A	68"
GSM	GREEN MOUNTAIN SUGAR MAPLE	ACER SACCHARUM	1T	55'	14' HT	20"	B&B	32"	19"	56"	19"	BRACE	2	N/A	68"
NS	NORWAY SPRUCE	PICEA ABIES	4E	60'	8' HT	20"	B&B	32"	19"	56"	19"	BRACE	2	N/A	68"
AR	RED MAPLE	ACER RUBRUM	1T	68'	3-INCH CAL	20"	B&B	32"	19"	56"	19"	BRACE	2	N/A	68"
A	SERVICEBERRY	AMELANCHIER X	3	20'	3-INCH CAL	20"	B&B	32"	19"	56"	19"	BRACE	2	N/A	68"
WB	WHITESPIRE PAPERBARK BIRCH	BETULA PLATYPHYLLA	3	35'	3-INCH CAL	20"	B&B	32"	19"	56"	19"	BRACE	2	N/A	68"
CH	COCKSPUR HAWTHORN (THORNLESS)	CRATAEGUS CRUSGALLI IMERNIS	3	25'	3-INCH CAL	20"	B&B	32"	19"	56"	19"	BRACE	2	N/A	68"
DECIDUOUS & EVERGREEN SHRUBS															
FS	FRAGENT SUMAC	RHUS AROMATICA	3S	6'	36" HT	#5	CONT	12"	8"	36"	8"	N/A	N/A	NO	BED LIMITS
PERENNIALS & GRASSES															
GRS	LITTLE BLUESTEM	SCHIZACHYRIUM SCOPARIUM	N/A	18"	1 GAL	#2	CONT	9"	6"	18"	6"	N/A	N/A	N/A	BED LIMITS
BAB	SEDUM ALBUM 'BABY TEARS'	SEDUM ALBUM CHLOROTICUM 'BABY TEARS'	N/A	5"	6-INCH POT	#1	CONT	9"	6"	18"	6"	N/A	N/A	N/A	BED LIMITS
ICE	SEDUM ALBUM 'GREEN ICE'	SEDUM ALBUM 'GREEN ICE'	N/A	2"	6-INCH POT	#1	CONT	9"	6"	18"	6"	N/A	N/A	N/A	BED LIMITS
PAC	SEDUM PACHYCALDOS	SEDUM PACHYCALDOS	N/A	1"	6-INCH POT	#1	CONT	9"	6"	18"	6"	N/A	N/A	N/A	BED LIMITS

SIGNING NOTES

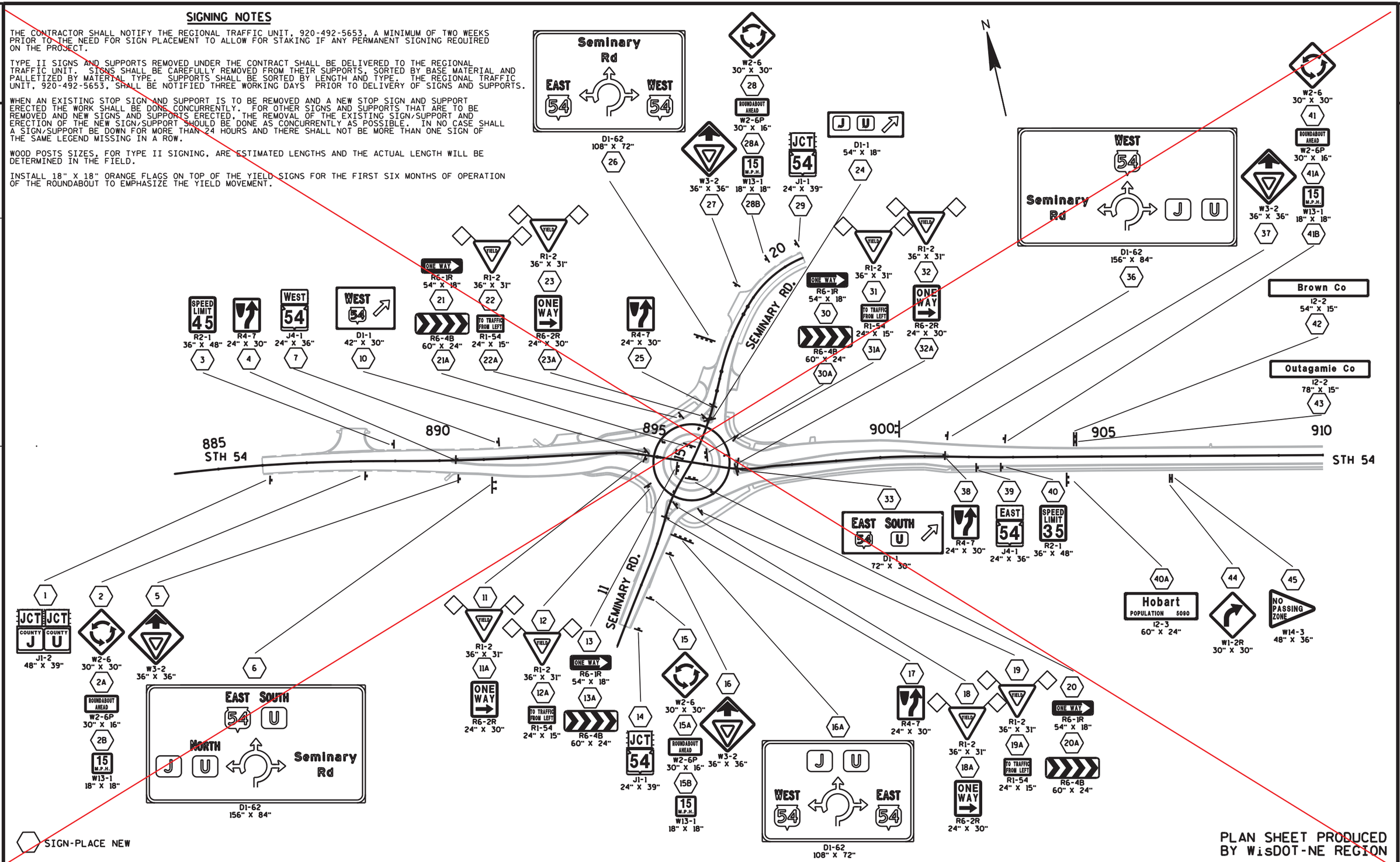
THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRAFFIC UNIT, 920-492-5653, A MINIMUM OF TWO WEEKS PRIOR TO THE NEED FOR SIGN PLACEMENT TO ALLOW FOR STAKING IF ANY PERMANENT SIGNING REQUIRED ON THE PROJECT.

TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THEIR SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. SUPPORTS SHALL BE SORTED BY LENGTH AND TYPE. THE REGIONAL TRAFFIC UNIT, 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS AND SUPPORTS.

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

INSTALL 18" X 18" ORANGE FLAGS ON TOP OF THE YIELD SIGNS FOR THE FIRST SIX MONTHS OF OPERATION OF THE ROUNDABOUT TO EMPHASIZE THE YIELD MOVEMENT.



PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PERMANENT SIGNING	SHEET E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

SIGNING NOTES

THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRAFFIC UNIT, 920-492-5653, A MINIMUM OF TWO WEEKS PRIOR TO THE NEED FOR SIGN PLACEMENT TO ALLOW FOR STAKING IF ANY PERMANENT SIGNING REQUIRED ON THE PROJECT.

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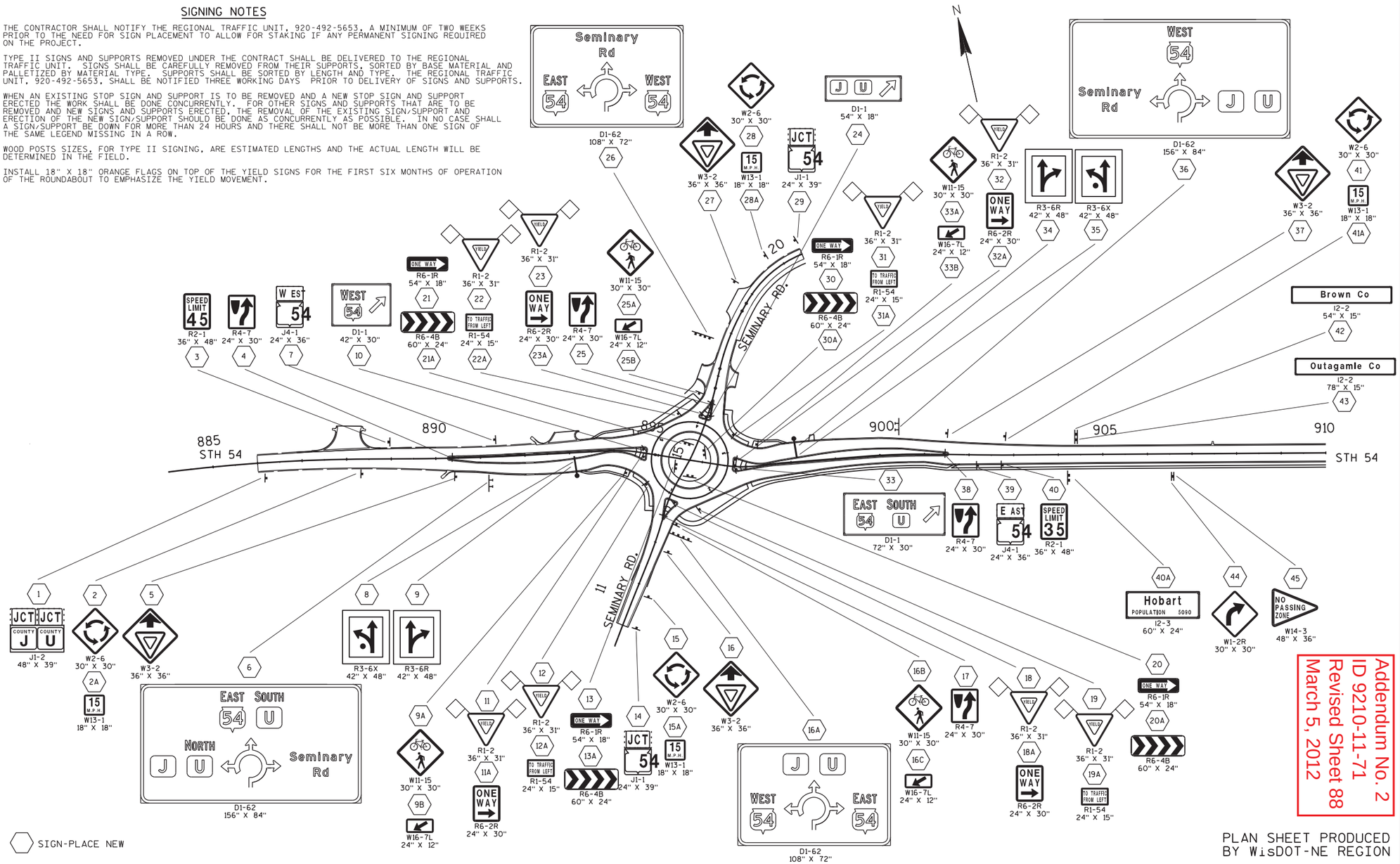
WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

INSTALL 18" X 18" ORANGE FLAGS ON TOP OF THE YIELD SIGNS FOR THE FIRST SIX MONTHS OF OPERATION OF THE ROUNDABOUT TO EMPHASIZE THE YIELD MOVEMENT.



SIGN-PLACE NEW

Addendum No. 2
ID 9210-11-71
Revised Sheet 88
March 5, 2012

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PERMANENT SIGNING	SHEET 88A	E

FILE NAME : X:\23046-70\08037\TECH\SPEC\E-Plan\Addendum #1\023201_ps.dgn PLOT DATE : 2/20/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 200.00 sf / in.

WISDOT/CADDS SHEET 42

SIGNING NOTES

THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRAFFIC UNIT, 920-492-5653, A MINIMUM OF TWO WEEKS PRIOR TO THE NEED FOR SIGN PLACEMENT TO ALLOW FOR STAKING IF ANY PERMANENT SIGNING REQUIRED ON THE PROJECT.

TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THEIR SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. SUPPORTS SHALL BE SORTED BY LENGTH AND TYPE. THE REGIONAL TRAFFIC UNIT, 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS AND SUPPORTS.

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

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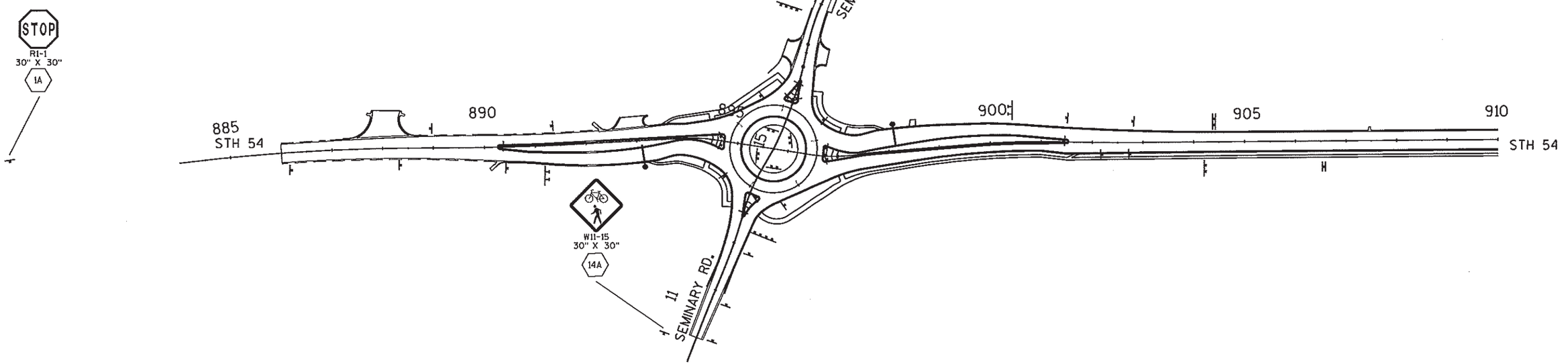

SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PERMANENT SIGNING	SHEET 88 B	E

SIGNING NOTES

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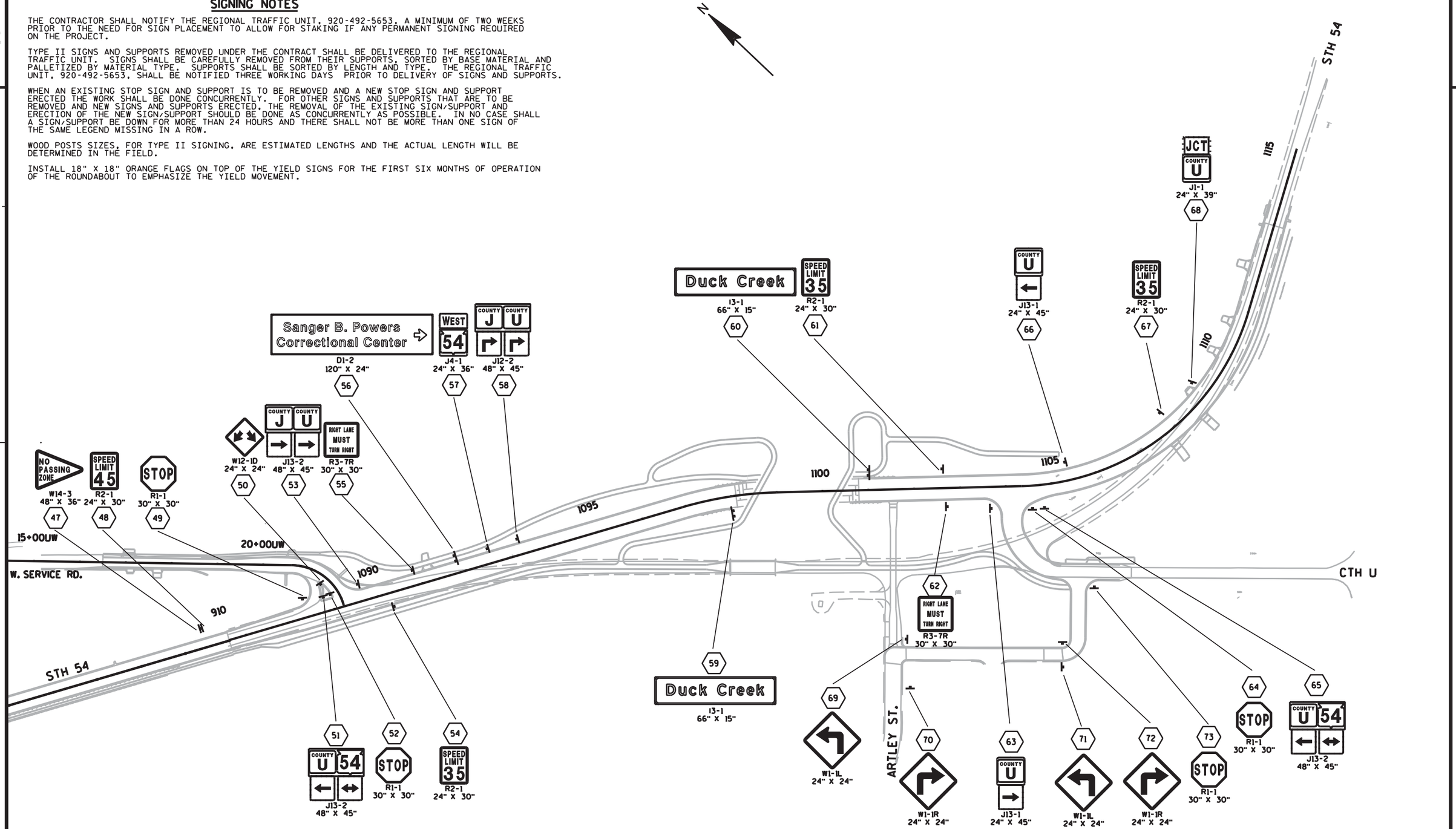

SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PERMANENT SIGNING	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

SIGNING NOTES

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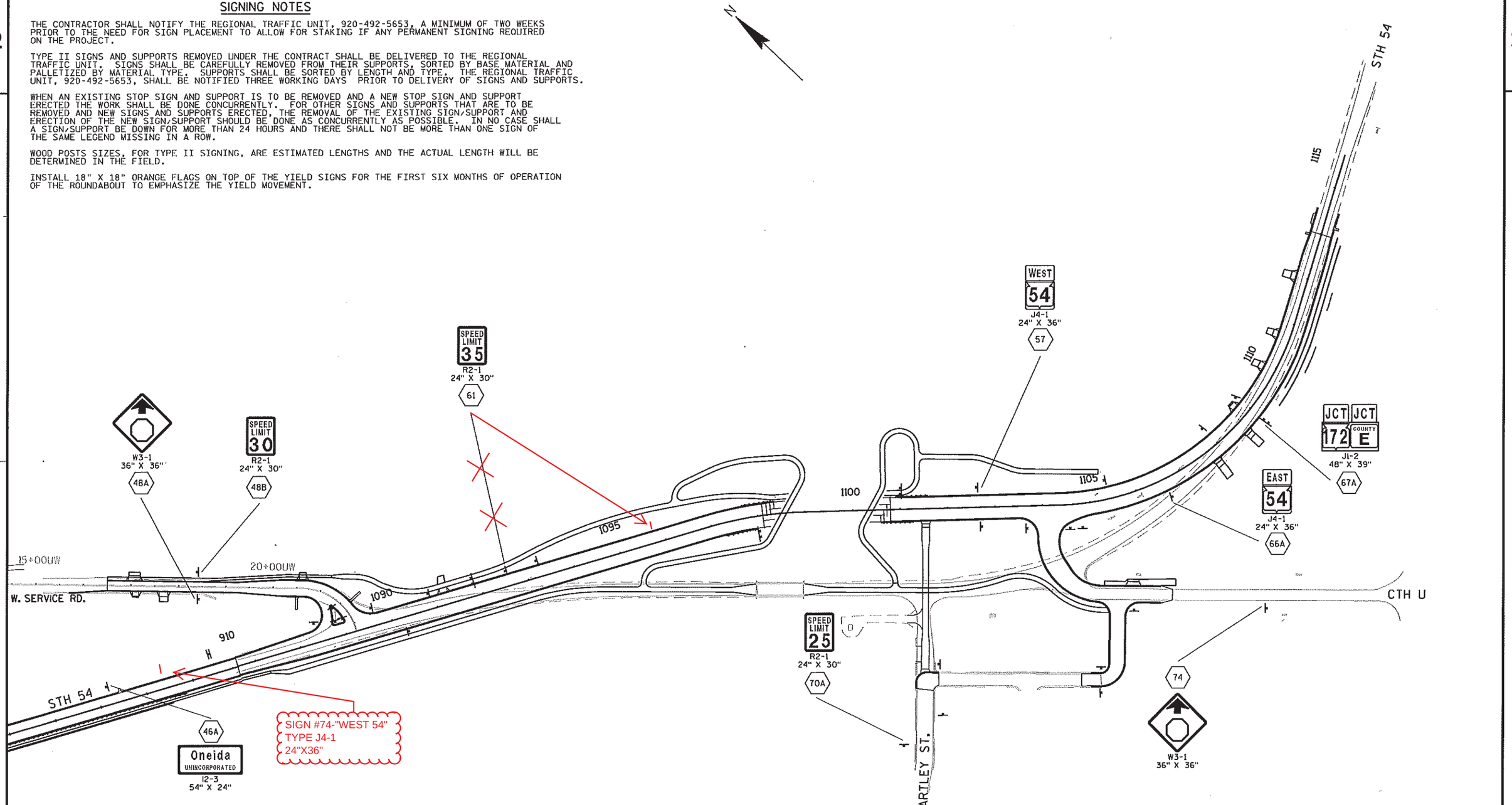

SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PERMANENT SIGNING	SHEET 89 A	E

FILE NAME : N:\spo\traffic\SIGNING\Projects\9210-11-71 STH 54, Oneida\023206_ps.dgn PLOT DATE : 26-APR-2012 12:53 PLOT BY : dotjlf PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

SIGNING NOTES

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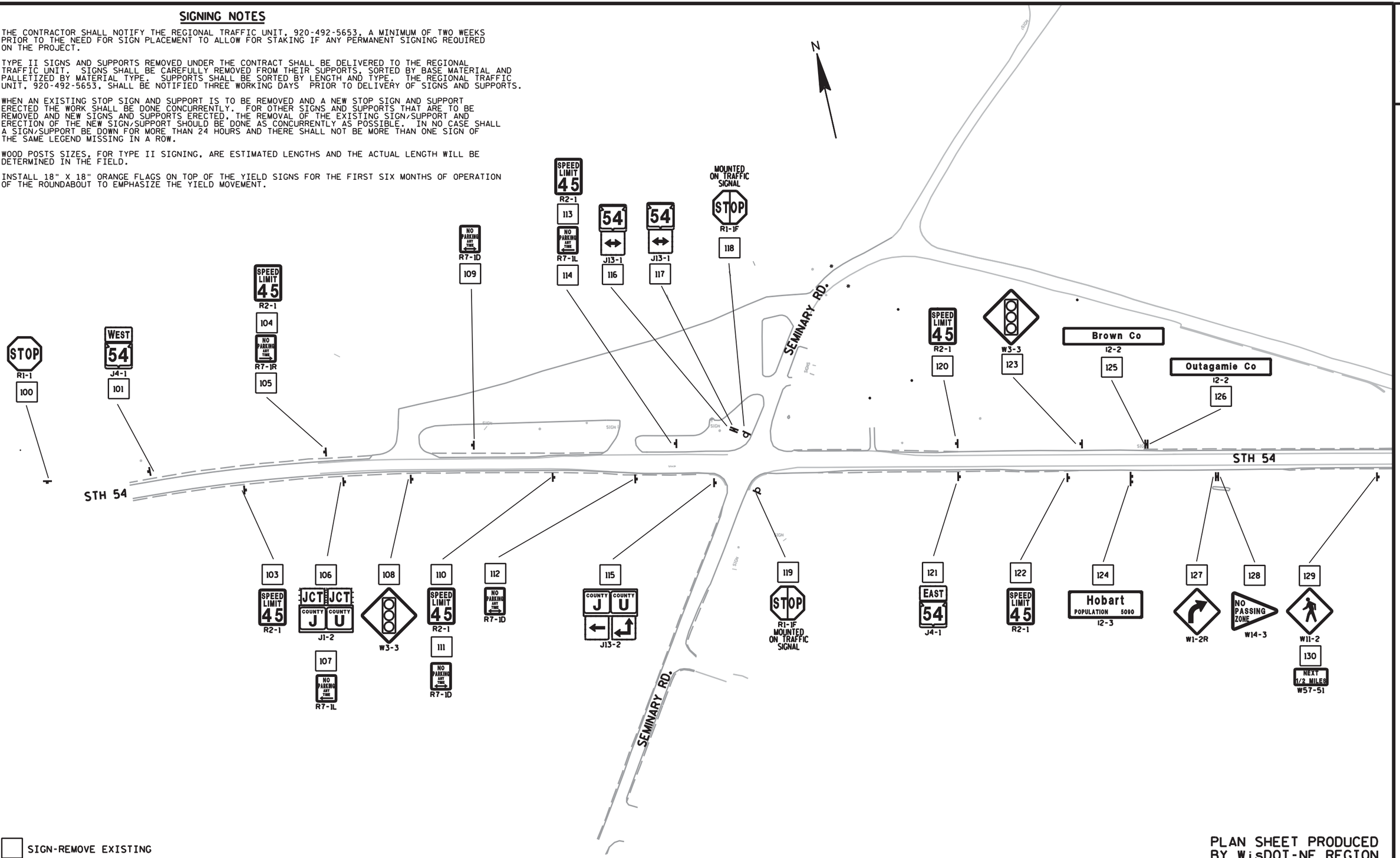

SIGN-REMOVE EXISTING

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	SIGN REMOVALS	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

SIGNING NOTES

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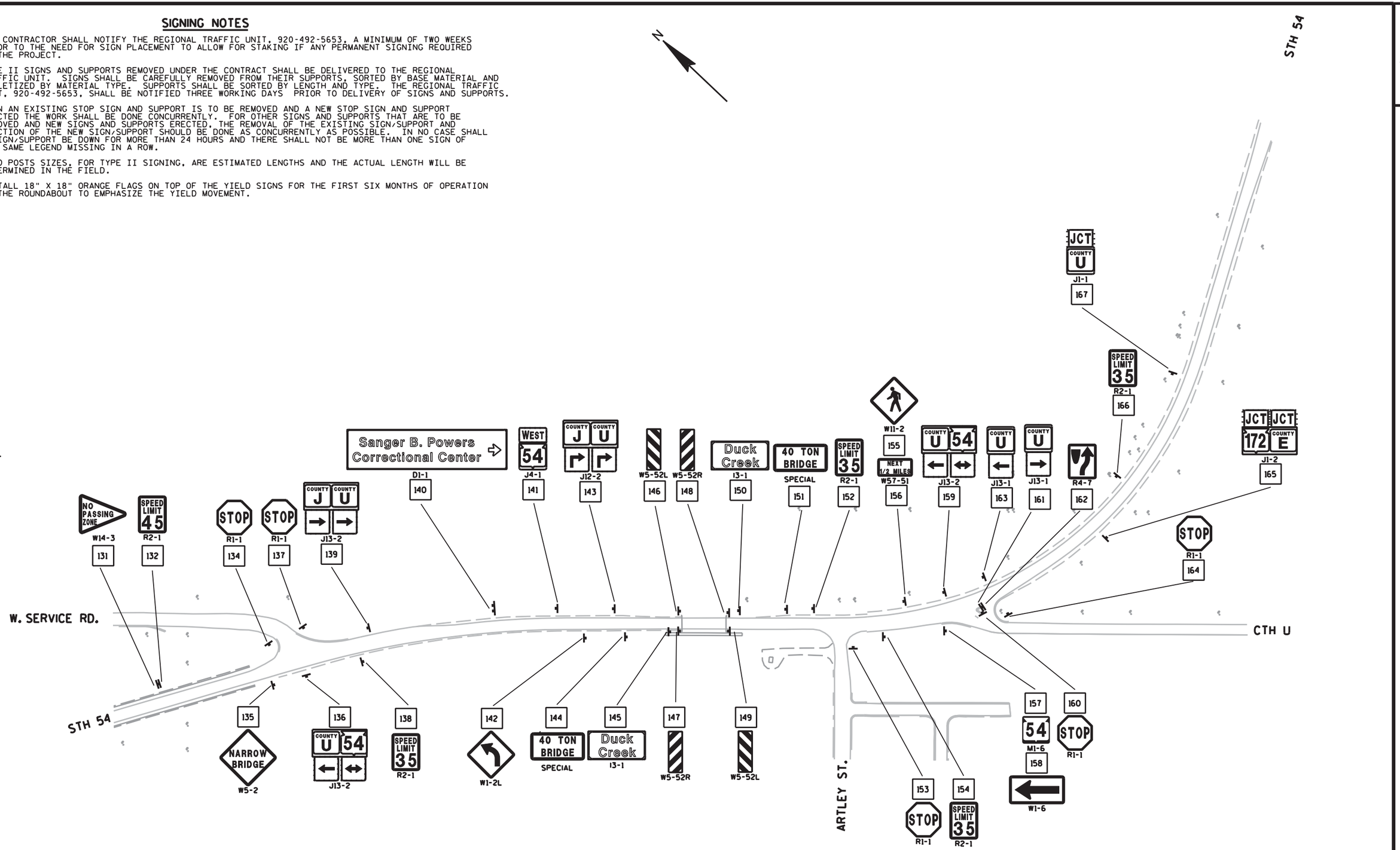


SIGN-REMOVE EXISTING

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	SIGN REMOVALS	SHEET E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

III -150-12-5-A-4

- LIGHT UNIT NUMBER IN CIRCUIT
- CIRCUIT NUMBER
- BASE TYPE
- MAST ARM LENGTH (in feet)
- LAMP WATTAGE
- DISTRIBUTION TYPE

240 VOLT SYSTEM

120/240 VOLT ELECTRIC SERVICE

III-250-12-5-D-1
III-250-12-5-D-2
III-250-12-5-D-3
III-250-12-5-A-1
III-250-12-5-A-2
III-150-12-5-A-3
III-150-12-5-A-4
III-150-12-5-A-5
III-150-12-5-C-4
III-150-12-5-C-3
III-250-12-5-C-2
III-250-12-5-C-1
III-250-12-5-B-1
III-250-12-5-B-2
III-250-12-5-B-3

LB1 LB2 LB3 LB4 LB5 LB6 LB7 LB8 LB9 LB10 LB11 LB12 LB13 LB14 LB15
PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8
CB1

STH 54
CTH J
Seminary Road
SIGN
CANOPY
FOUND
MAX OUTFLOW = 30 CFS

N

LEGEND

- LIGHTING CONTROL CABINET WITH METER BREAKER PEDESTAL
- 2" CONDUIT, NON-METALLIC (UNLESS OTHERWISE NOTED)
- 150 or 250 WATT LUMINAIRE,TYPE 5 POLE, TYPE 5 CONCRETE BASE, TRUSS TYPE - 4½" CLAMP - 12FT WITH TRANSFORMER BASE
- PULL BOX 24" X 42"
- POWER POLE
- SERVICE POLE
- ELECTRIC, UNDERGROUND — E —
- ELECTRIC, OVERHEAD — OH —
- SIGN

NOTES:

WISCONSIN DOT NORTHEAST REGION ELECTRICAL UNIT SHALL APPROVE FINAL LOCATIONS FOR ALL CONCRETE BASES IN THE FIELD PRIOR TO CONSTRUCTION. CONTACT THEM 3 DAYS IN ADVANCE AT (920) 492-5710.

2" DRAIN DUCT TO STORM SEWER REQUIRED FOR PB2 & PB3. THIS 2" DRAIN DUCT IS INCIDENTAL TO THE PULL BOX BID ITEM.

THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

STH 54 & CTH J/Seminary RD
TOWN OF ONEIDA
OUTAGAMIE COUNTY

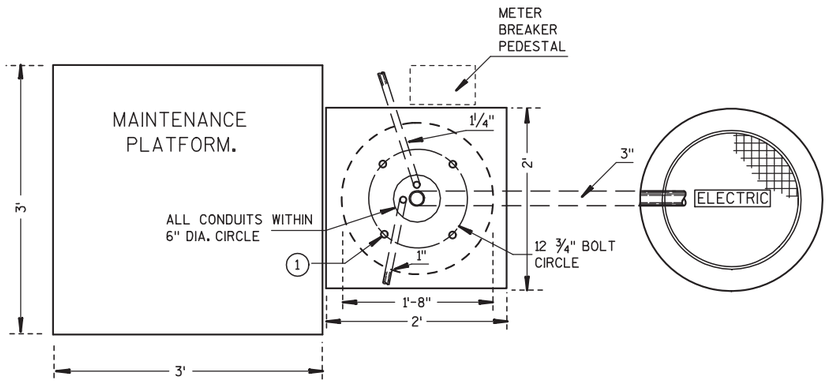
LIGHTING NO. 807

DESIGNER: WISDOT NE Region Traffic Unit

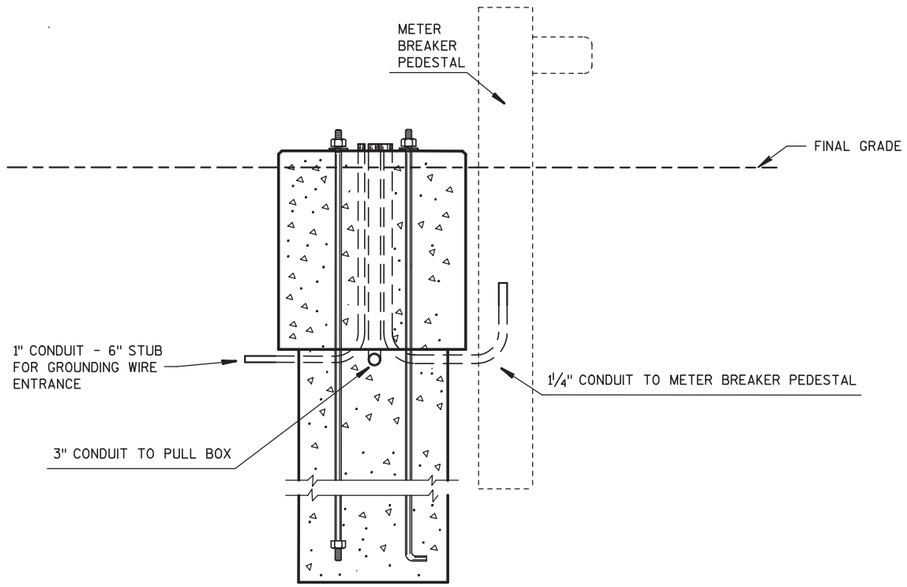
DATE: 8-22-2011 SHEET NO. 1 OF 1

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	CONSTRUCTION DETAIL - ROUNDABOUT LIGHTING	SHEET 92	E

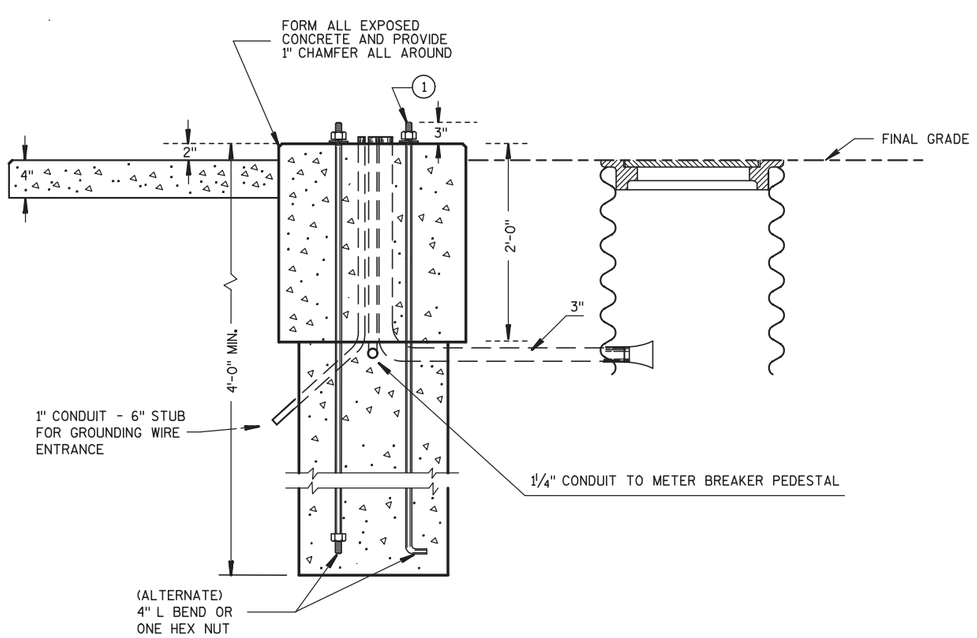
CONTROL CABINET BASE TYPE	DIMENSIONS	C.Y. CONCRETE (APPROX.)
TYPE 10 - POST MOUNT	AS SHOWN	0.75



PLAN VIEW



FRONT VIEW



PROFILE VIEW

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 36" SQUARE 4" THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 1 INCH SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

ALL CONDUIT ENDS AT THE TOP OF THE CONCRETE BASE SHALL PLUGGED IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN ANCHOR RODS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 4" L BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

STRAIGHT ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD.

FOUR (4) ANCHOR RODS, 1" DIA. X 3'-6"
ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH A-449, OR ASTM. A-687 (GRADE 105).

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	CONTROL CABINET BASE DETAIL, TYPE 10 NER	SHEET 93	E

GENERAL NOTES:

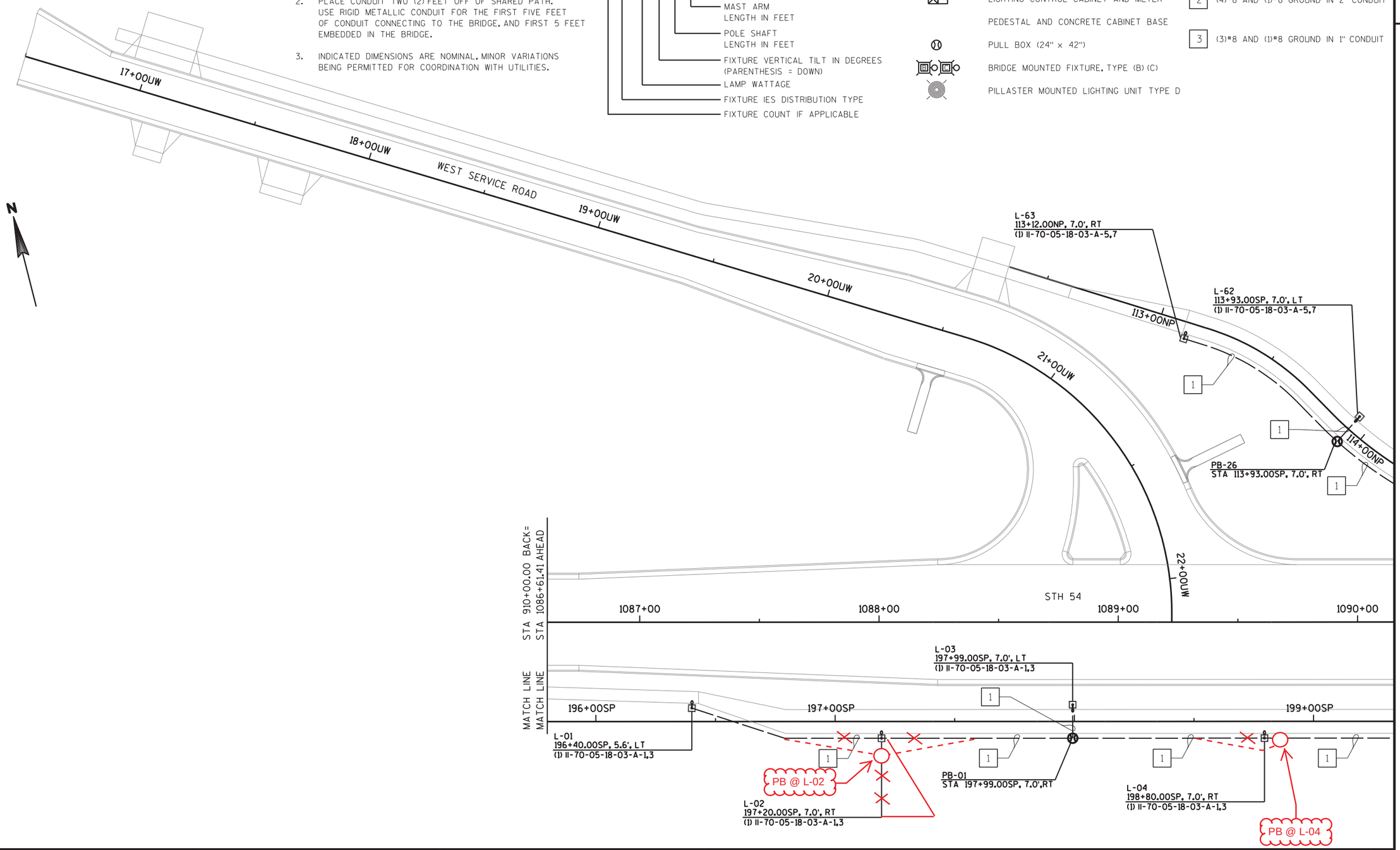
1. UNLESS NOTED, CONDUIT SHALL BE 2" PVC SCHEDULE 40 EXCEPT UNDER ROADWAYS AND DRIVEWAYS WHICH SHALL BE SCHEDULE 80.
2. PLACE CONDUIT TWO (2) FEET OFF OF SHARED PATH. USE RIGID METALLIC CONDUIT FOR THE FIRST FIVE FEET OF CONDUIT CONNECTING TO THE BRIDGE, AND FIRST 5 FEET EMBEDDED IN THE BRIDGE.
3. INDICATED DIMENSIONS ARE NOMINAL, MINOR VARIATIONS BEING PERMITTED FOR COORDINATION WITH UTILITIES.

LEGEND

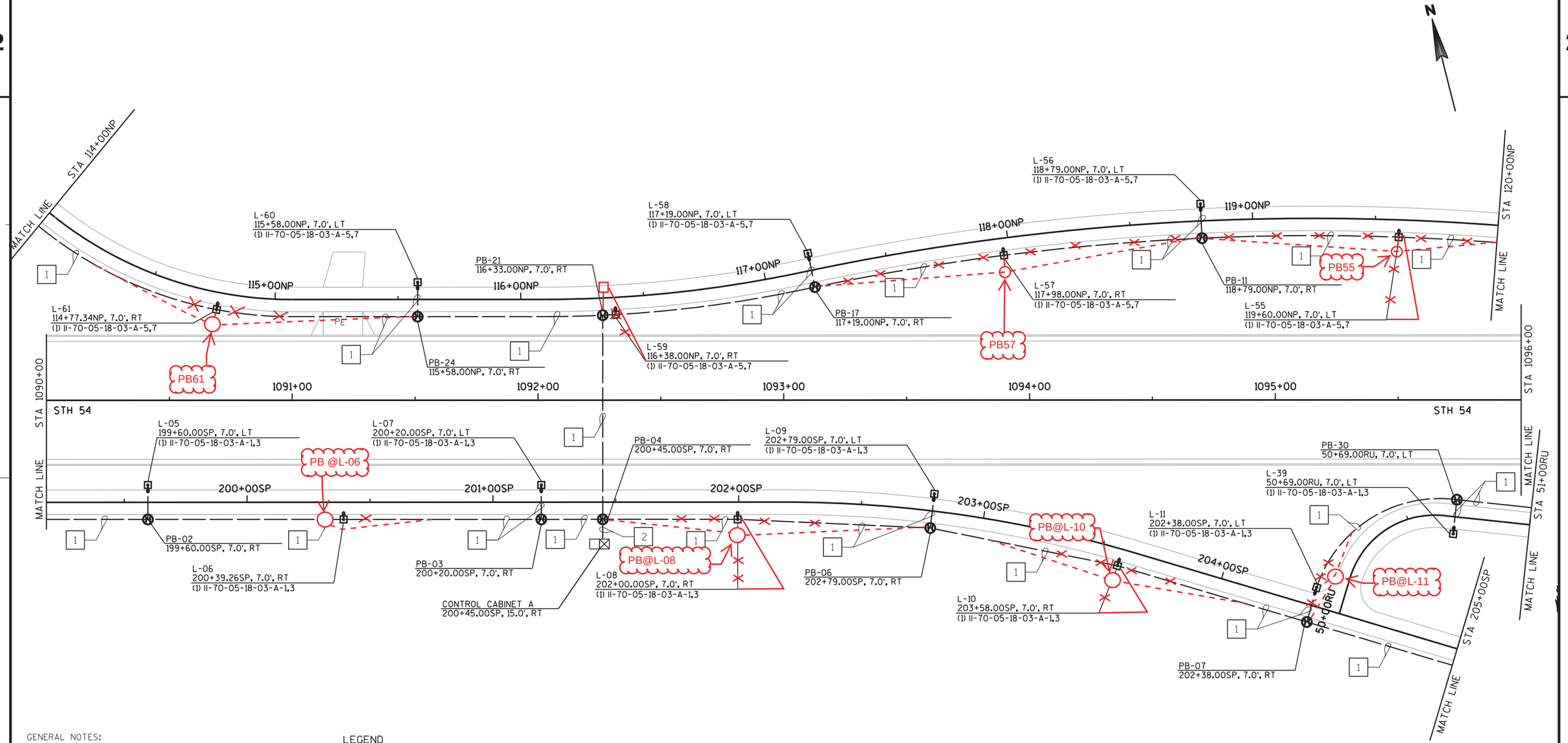
X-XX — LIGHTING UNIT NUMBER
XXXX+XX.XX, XX',XX — LOCATION
(X)XXX-XXX-XX-XX-XX-XXXX
- CIRCUIT
- MAST ARM LENGTH IN FEET
- POLE SHAFT LENGTH IN FEET
- FIXTURE VERTICAL TILT IN DEGREES (PARENTHESIS = DOWN)
- LAMP WATTAGE
- FIXTURE IES DISTRIBUTION TYPE
- FIXTURE COUNT IF APPLICABLE

LIGHTING UNIT, POLE, AND CONCRETE BASE
PROPOSED CONDUIT
LIGHTING CONTROL CABINET AND METER PEDESTAL AND CONCRETE CABINET BASE
PULL BOX (24" x 42")
BRIDGE MOUNTED FIXTURE, TYPE (B)(C)
PILLASTER MOUNTED LIGHTING UNIT TYPE D

[1] (2)#8 AND (1)#8 GROUND IN 2" CONDUIT
[2] (4)#8 AND (1)#8 GROUND IN 2" CONDUIT
[3] (3)#8 AND (1)#8 GROUND IN 1" CONDUIT



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	LIGHTING PLAN	SHEET 94	E



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3. INDICATED DIMENSIONS ARE NOMINAL, MINOR VARIATIONS BEING PERMITTED FOR COORDINATION WITH UTILITIES.

LEGEND

X-XX — LIGHTING UNIT NUMBER
XXXX+XX.XX, XX',XX — LOCATION
(X)XXX-XXX-XX-XX-XX-XX-XXXX
- CIRCUIT
- MAST ARM LENGTH IN FEET
- POLE SHAFT LENGTH IN FEET
- FIXTURE VERTICAL TILT IN DEGREES (PARENTHESIS = DOWN)
- LAMP WATTAGE
- FIXTURE IES DISTRIBUTION TYPE
- FIXTURE COUNT IF APPLICABLE

- LIGHTING UNIT, POLE, AND CONCRETE BASE
- PROPOSED CONDUIT
- LIGHTING CONTROL CABINET AND METER PEDESTAL AND CONCRETE CABINET BASE
- PULL BOX (24" x 42")
- BRIDGE MOUNTED FIXTURE, TYPE (B) (C)
- PILLASTER MOUNTED LIGHTING UNIT TYPE D

- [1] (2)#8 AND (1)#8 GROUND IN 2" CONDUIT
- [2] (4)#8 AND (1)#8 GROUND IN 2" CONDUIT
- [3] (3)#8 AND (1)#8 GROUND IN 1" CONDUIT

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	LIGHTING PLAN	SHEET 95	E

GENERAL NOTES:

1. UNLESS NOTED, CONDUIT SHALL BE 2" PVC SCHEDULE 40 EXCEPT UNDER ROADWAYS AND DRIVEWAYS WHICH SHALL BE SCHEDULE 80.
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3. INDICATED DIMENSIONS ARE NOMINAL, MINOR VARIATIONS BEING PERMITTED FOR COORDINATION WITH UTILITIES.

LEGEND

X-XX — LIGHTING UNIT NUMBER
XXXX+XX.XX, XX',XX — LOCATION
(X)XXX-XXX-XX-XX-XX-XXXX
- CIRCUIT
- MAST ARM LENGTH IN FEET
- POLE SHAFT LENGTH IN FEET
- FIXTURE VERTICAL TILT IN DEGREES (PARENTHESIS = DOWN)
- LAMP WATTAGE
- FIXTURE IES DISTRIBUTION TYPE
- FIXTURE COUNT IF APPLICABLE

LIGHTING UNIT, POLE, AND CONCRETE BASE

PROPOSED CONDUIT

LIGHTING CONTROL CABINET AND METER

PEDESTAL AND CONCRETE CABINET BASE

PULL BOX (24" x 42")

BRIDGE MOUNTED FIXTURE, TYPE (B) (C)

PILLASTER MOUNTED LIGHTING UNIT TYPE D

1 (2)#8 AND (1)#8 GROUND IN 2" CONDUIT

2 (4)#8 AND (1)#8 GROUND IN 2" CONDUIT

3 (3)#8 AND (1)#8 GROUND IN 1" CONDUIT

L-48
55+14.00RU, 7.0', RT
(1) II-70-05-18-03-A-5,7

L-50
56+65.00RU, 7.0', RT
(1) II-70-05-18-03-A-5,7

L-49
55+82.00RU, 7.0', LT
(1) II-70-05-18-03-A-5,7

PB-05
55+14.00RU, 7.0', LT

PB-09
56+65.00RU, 7.0', LT

PB51

PB49

L-52
120+38.00NP, 7.0', LT
(1) II-70-05-18-03-A-5,7

L-51
57+58.00RU, 7.0', LT
(1) II-70-05-18-03-A-5,7

L-54
121+98.00NP, 7.0', RT
(1) II-70-05-18-03-A-5,7

PB-33
54+45.00RU, 7.0', LT

L-47
54+45.00RU, 7.0', RT
(1) II-70-05-18-03-A-5,7

L-53
121+19.00NP, 7.0', RT
(1) II-70-05-18-03-A-5,7

PB-28
121+98.00NP, 7.0', LT

PB53

PB-10
120+38.11NP, 7.0', RT

PB@L-42

PB-32
52+91.00RU, 7.0', LT

L-40
51+29.70RU, 7.0', LT
(1) II-70-05-18-03-A-1,3

L-42
52+50.00RU, 7.0', LT
(1) II-70-05-18-03-A-1,3

PB-31
51+89.00RU, 7.0', LT

L-43
53+12.00RU, 7.0', RT
(1) II-70-05-18-03-A-1,3

L-41
51+89.00RU, 7.0', RT
(1) II-70-05-18-03-A-1,3

PB@L-40

PB@L-12

L-13
206+48.00SP, 7.0', LT
(1) II-70-05-18-03-A-1,3

L-12
205+18.00SP, 7.0', RT
(1) II-70-05-18-03-A-1,3

PB-8
206+48.00SP, 7.0', RT

L-14
206+81.00SP, 7.0', LT
(1) II-70-05-18-03-A-1,3

L-15
208+16.00SP, 7.0', RT
(1) II-70-05-18-03-B-1,3

L-16
208+95.00SP, 7.0', LT
(1) II-70-05-18-03-B-1,3

L-17
209+75.00SP, 7.0', RT
(1) II-70-05-18-03-B-1,3

PB-12
208+95.00SP, 7.0', RT

PB-13
209+87.00SP, 7.0', RT

PB-14
210+55.00SP, 7.0', RT

L-18
210+55.00SP, 7.0', LT
(1) II-70-05-18-03-B-1,3

L-19
71+47.00RE, 7.0', RT

L-24
70+65.00RE, 7.0', LT
(1) II-70-05-18-03-B-5,7

L-25
71+24.00RE, 7.0', RT
(1) II-70-05-18-03-B-1,3

PB-18
70+65.00RE, 7.0', LT

CONTROL CABINET B
70+50.00RE, 15.0', RT

L-29
72+68.00RE, 7.0', LT
(1) II-70-05-18-03-B-5,7

L-30
73+28.00RE, 7.0', RT
(1) II-70-05-18-03-B-1,3

PB-22
73+68.00RE, 7.0', LT

L-31
73+68.00RE, 7.0', LT
(1) II-70-05-18-03-B-1,3

L-32
74+53.00RE, 7.0', RT
(1) II-70-05-18-03-B-1,3

PB30

PB-23
74+59.00RE, 7.0', RT

PB-20
72+68.00RE, 7.0', LT

PB-25
75+11.00RE, 7.0', LT

L-33
75+11.00RE, 7.0', LT
(1) II-70-05-18-03-B-1,3

66 BRIDGE MOUNTED FIXTURE, TYPE D (1) II-70-05-18-03-A-5,7
65 BRIDGE MOUNTED FIXTURE, TYPE C (1) II-70-05-18-03-A-5,7
46 BRIDGE MOUNTED FIXTURE, TYPE B (1) II-70-05-18-03-A-5,7
45 BRIDGE MOUNTED FIXTURE, TYPE B (1) II-70-05-18-03-A-5,7
44 BRIDGE MOUNTED FIXTURE, TYPE B (1) II-70-05-18-03-A-5,7
68 BRIDGE MOUNTED FIXTURE, TYPE C (1) II-70-05-18-03-A-5,7
67 BRIDGE MOUNTED FIXTURE, TYPE D (1) II-70-05-18-03-A-5,7

70 BRIDGE MOUNTED FIXTURE, TYPE D (1) II-70-05-18-03-A-5,7
71 BRIDGE MOUNTED FIXTURE, TYPE C (1) II-70-05-18-03-A-5,7
26 BRIDGE MOUNTED FIXTURE, TYPE B (1) II-70-05-18-03-A-5,7
27 BRIDGE MOUNTED FIXTURE, TYPE B (1) II-70-05-18-03-A-5,7
28 BRIDGE MOUNTED FIXTURE, TYPE B (1) II-70-05-18-03-A-5,7
64 BRIDGE MOUNTED FIXTURE, TYPE C (1) II-70-05-18-03-A-5,7
69 BRIDGE MOUNTED FIXTURE, TYPE D (1) II-70-05-18-03-A-5,7

NOTE:
FOR BRIDGE MOUNTED FIXTURE MOUNTING HEIGHTS AND CONDUIT ROUTING REFER TO STRUCTURAL DRAWINGS.

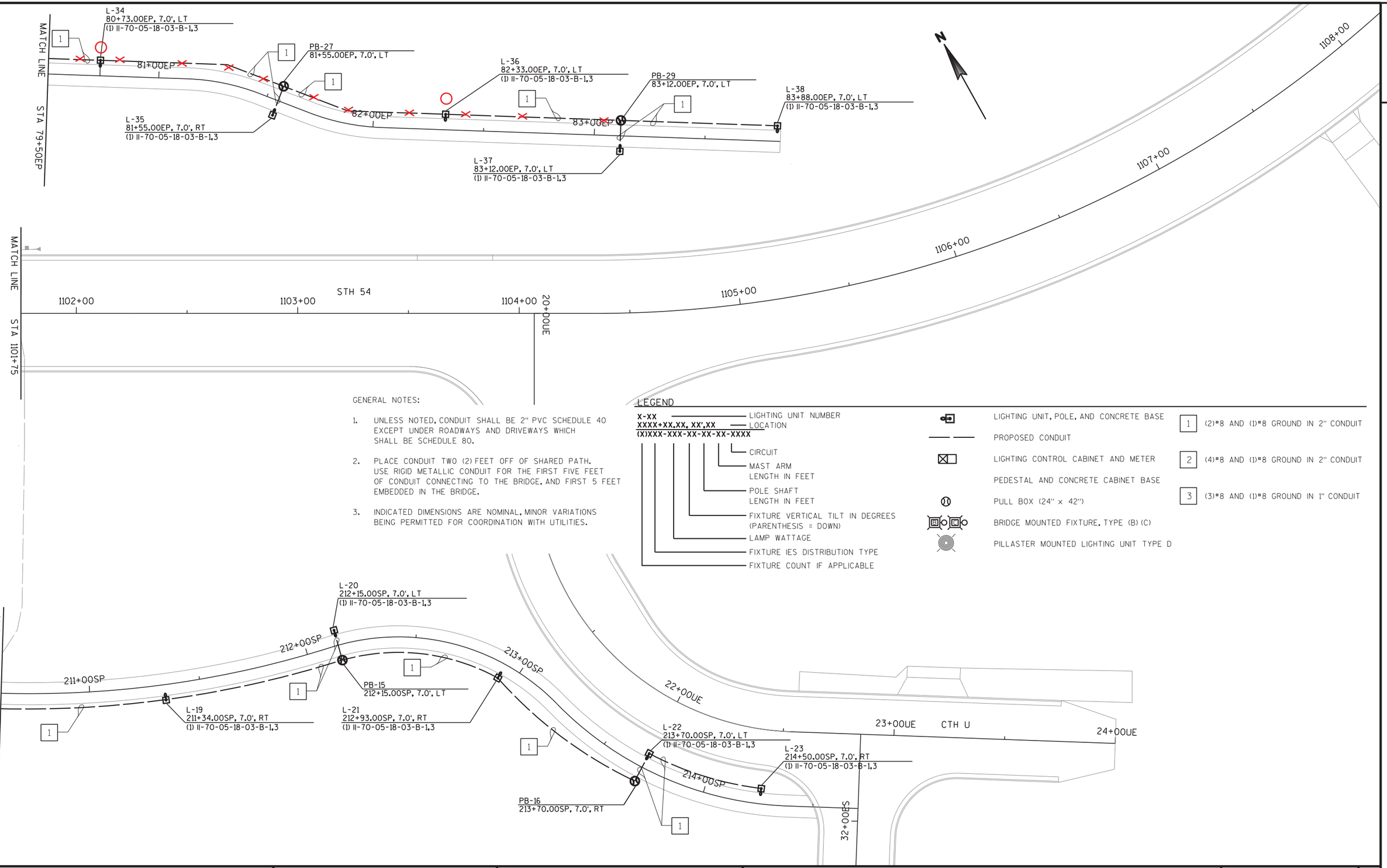
DUCK CREEK

STH 54

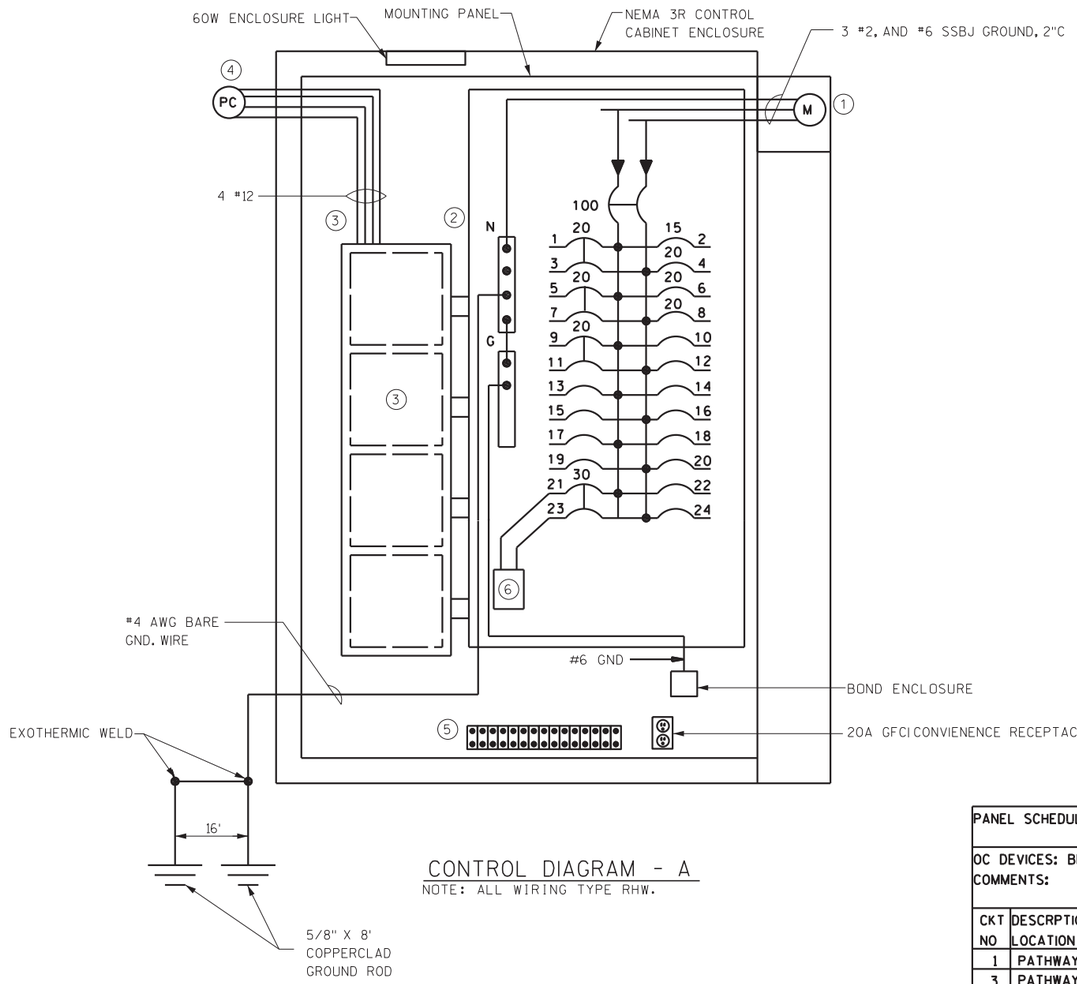
MATCH LINE

STA 120+00NP
STA 1096+00
STA 205+00SP
STA 51+00RU
STA 79+50EP
STA 1101+75
STA 210+60.04SP
43+00AS
42+00AS
ARTLEY STREET

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	LIGHTING PLAN	SHEET 96	E



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	LIGHTING PLAN	SHEET 97	E



CONTROL DIAGRAM - A

NOTE: ALL WIRING TYPE RHW.

NOTES

1. ALL CONTROL AND POWER WIRING SHALL BE COLOR CODED #12 AWG, XLP UNLESS OTHERWISE NOTED.
2. ALL POWER AND CONTROL WIRING SHALL BE NEATLY TRAINED, LABELED AND SUPPORTED.
3. THE LIGHTING CONTROL CABINET SHALL BE COMPLETELY WIRED UP TO THE FIELD WIRING TERMINATION STRIP IN THE CONTRACTORS SHOP AND TESTED PRIOR TO INSTALLATION AT THE SITE.
4. THE CONTRACTOR SHALL COMPLY WITH THE WISCONSIN PUBLIC SERVICE UTILITY INSTALLATION REQUIREMENTS FOR ELECTRICAL SERVICE.
5. CONTRACTOR TO PROVIDE 4" GRAVEL BASE BELOW CONCRETE BASE.
6. CABINET DOOR TO OPEN AWAY FROM PATHWAY.
7. CABINET SHALL NOT OVERLAP THE CONCRETE CONTROL BASE. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONCRETE BASE SIZE AND FIELD MEASUREMENT.
8. COORDINATE WITH LOCAL UTILITY FOR METER PEDESTAL LOCATION.
9. UTILITY SERVICE LATTERAL AND ALL PROVISIONS FOR SERVICE LATERAL SHALL BE INCLUDED AS INCIDENTAL TO LIGHTING CONTROL CABINET BID ITEM.

EQUIPMENT

(1) 200A, 120/240V, 1 PH, 3W METER PEDESTAL - SQUARE D OR EQUAL.

(2) 100A MCB, 120/240V, 1PH, 3W, 24 CKT, PANEL BOARD WITH BOLT-ON BRANCH CIRCUIT BREAKERS, 22000AIC RMS INTERRUPTING CAPACITY - SQUARE D OR EQUAL NEMA 1 ENCLOSURE.

(3) FOUR 2 POLE, 30A, 600V ELECTRICALLY HELD CONTACTORS WITH 120 VOLT CONTROL COILS. HAND-OFF-AUTO SWITCH IN FACTORY ASSEMBLED NEMA 1 ENCLOSURE - SQUARE D OR EQUAL. WIRE TO PHOTOCELL TO ENERGIZE ALL LIGHTING CIRCUITS DUSK TO DAWN.

(4) 120V BUTTON TYPE PHOTOCELL MOUNTED ON NORTH SIDE OF CABINET - SQUARE D OR EQUAL.

(5) FIELD WIRING TERMINATION STRIP (30 BLOCKS) - SQUARE D OR EQUAL.

(6) INTERGRAL SURGE ARRESTER - SQUARE D OR EQUAL.

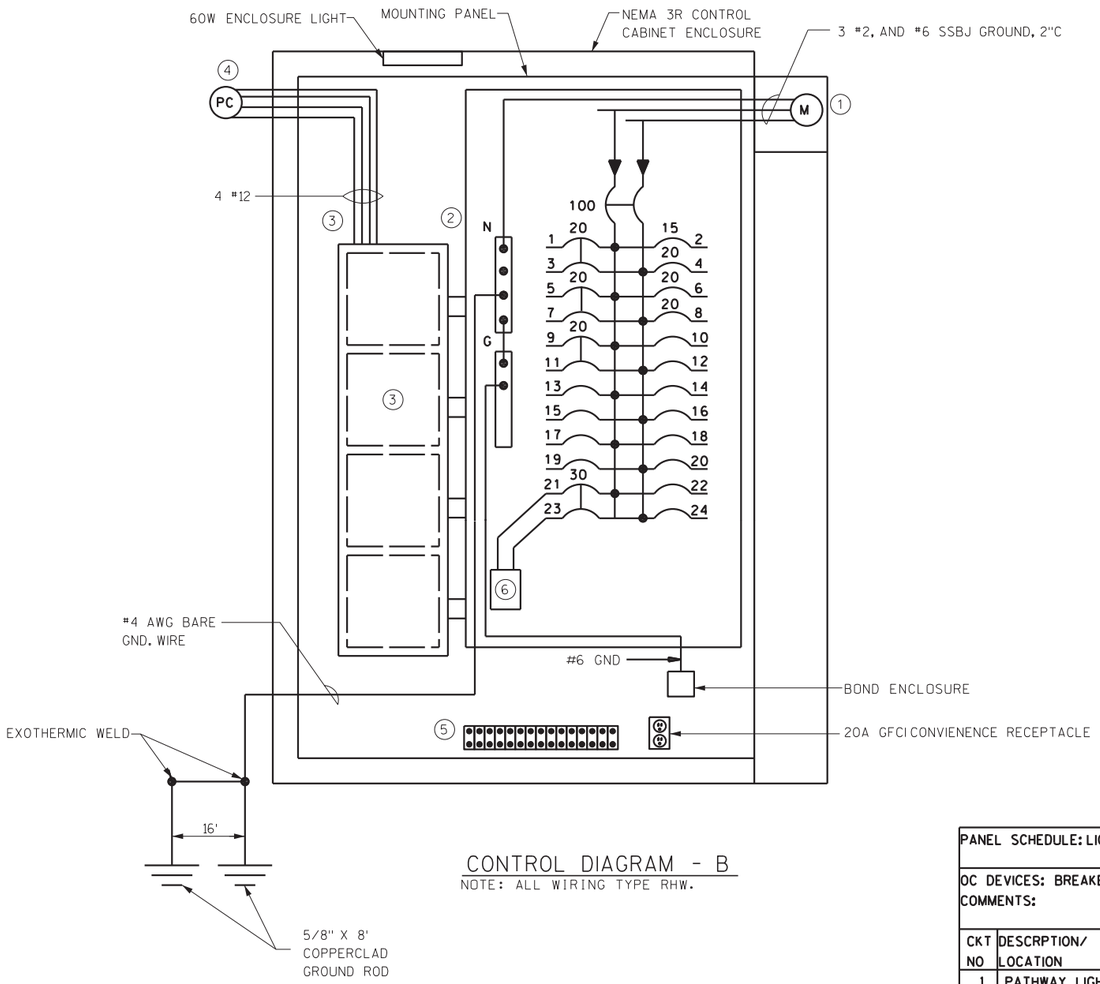
PANEL SCHEDULE: LIGHTING CONTROL CABINET A — 1PHASE — 3WIRE — VOLTAGE LL: 240 — VOLTAGE LG: 120

OC DEVICES: BREAKER — DEVICE FAMILY: BOLT ON — MOUNTNG: CABINET — ENCLOSURE: NEMA 1
COMMENTS: — BUS RATING: 100 AMP — AVAILABLE FAULT DUTY: 22000 A

CKT NO	DESCRPTION/ LOCATION	LOAD TYPE	CRITERIA EA	CRITERIA QTY	CRITERIA DEM	TOTAL VA	REMARKS	DEVICE AMPS	DEVICE P	PH	DEVICE AMPS	DEVICE P	REMARKS	TOTAL VA	LOAD TYPE	CRITERIA EA	CRITERIA QTY	CRITERIA DEM	DESCRPTION/ LOCATON	CKT NO
1	PATHWAY LIGHTS	2	45	17	2	765	-----	20	2	A	15	1	-----	10	--	10	1	1	PHOTO CONTROL	2
3	PATHWAY LIGHTS	2	45	17	2	765	-----	-----		B	-----	1	-----	180	--	180	1	1	RECEPTACLE, CAB LIGHT	4
5	PATHWAY LIGHTS	2	45	26	2	1170	-----	20	2	A	20	1	-----	--	--	--	--	--	SPACE	6
7	BRIDGE LIGHTS	2	45	26	2	1170	-----	-----		B	-----	1	-----	--	--	--	--	--	SPACE	8
9	SPACE	--	--	--	--	--	-----	20	2	A	20	--	-----	--	--	--	--	--	SPACE	10
11	SPACE	--	--	--	--	--	-----	-----		B	-----	--	-----	--	--	--	--	--	SPACE	12
13	SPACE	--	--	--	--	--	-----	-----		A	20	--	-----	--	--	--	--	--	SPACE	14
15	SPACE	--	--	--	--	--	-----	-----		B	-----	--	-----	--	--	--	--	--	SPACE	16
17	SPACE	--	--	--	--	--	-----	30	2	A	-----	--	-----	--	--	--	--	--	SPACE	18
19	SPACE	--	--	--	--	--	-----	----		B	-----	--	-----	--	--	--	--	--	SPACE	20
21	SURGE ARRESTOR	--	--	--	--	--	-----	30	2	A	-----	--	-----	--	--	--	--	--	SPACE	22
23	SURGE ARRESTOR	--	--	--	--	--	-----	----		B	-----	--	-----	--	--	--	--	--	SPACE	24

ENDUSE LOADS: PHASE "A" KVA = 2 — PHASE "B" KVA = 2
TOTAL LOADS: CONNECTED KVA = 4 — DEMAND KVA = 4 — DESIGN KVA = 5
CONNECTED FLA = 17 — DEMAND FLA = 17 — DESIGN FLA = 21

NOTES: PROVIDE 100 AMP, 2 POLE MAIN CIRCUIT BREAKER.



CONTROL DIAGRAM - B

NOTE: ALL WIRING TYPE RHW.

NOTES

1. ALL CONTROL AND POWER WIRING SHALL BE COLOR CODED #12 AWG, XLP UNLESS OTHERWISE NOTED.
2. ALL POWER AND CONTROL WIRING SHALL BE NEATLY TRAINED, LABELED AND SUPPORTED.
3. THE LIGHTING CONTROL CABINET SHALL BE COMPLETELY WIRED UP TO THE FIELD WIRING TERMINATION STRIP IN THE CONTRACTORS SHOP AND TESTED PRIOR TO INSTALLATION AT THE SITE.
4. THE CONTRACTOR SHALL COMPLY WITH THE WISCONSIN PUBLIC SERVICE UTILITY INSTALLATION REQUIREMENTS FOR ELECTRICAL SERVICE.
5. CONTRACTOR TO PROVIDE 4" GRAVEL BASE BELOW CONCRETE BASE.
6. CABINET DOOR TO OPEN AWAY FROM PATHWAY.
7. CABINET SHALL NOT OVERLAP THE CONCRETE CONTROL BASE. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONCRETE BASE SIZE AND FIELD MEASUREMENT.
8. COORDINATE WITH LOCAL UTILITY FOR METER PEDESTAL LOCATION.
9. UTILITY SERVICE LATTERAL AND ALL PROVISIONS FOR SERVICE LATERAL SHALL BE INCLUDED AS INCIDENTAL TO LIGHTING CONTROL CABINET BID ITEM.

EQUIPMENT

(1) 200A, 120/240V, 1 PH, 3W METER PEDESTAL - SQUARE D OR EQUAL.

(2) 100A MCB, 120/240V, 1PH, 3W, 24 CKT, PANEL BOARD WITH BOLT-ON BRANCH CIRCUIT BREAKERS, 22000AIC RMS INTERRUPTING CAPACITY - SQUARE D OR EQUAL NEMA 1 ENCLOSURE.

(3) FOUR 2 POLE, 30A, 600V ELECTRICALLY HELD CONTACTORS WITH 120 VOLT CONTROL COILS. HAND-OFF-AUTO SWITCH IN FACTORY ASSEMBLED NEMA 1 ENCLOSURE - SQUARE D OR EQUAL. WIRE TO PHOTOCELL TO ENERGIZE ALL LIGHTING CIRCUITS DUSK TO DAWN.

(4) 120V BUTTON TYPE PHOTOCELL MOUNTED ON NORTH SIDE OF CABINET - SQUARE D OR EQUAL.

(5) FIELD WIRING TERMINATION STRIP (30 BLOCKS) - SQUARE D OR EQUAL.

(6) INTERGRAL SURGE ARRESTER - SQUARE D OR EQUAL.

PANEL SCHEDULE: LIGHTING CONTROL CABINET B — 1PHASE — 3WIRE — VOLTAGE LL: 240 — VOLTAGE LG: 120

OC DEVICES: BREAKER — DEVICE FAMILY: BOLT ON — MOUNTNG: CABINET — ENCLOSURE: NEMA 1

COMMENTS: — BUS RATING: 100 AMP — AVAILABLE FAULT DUTY: 22000 A

CKT NO	DESCRPTION/ LOCATION	LOAD TYPE	CRITERIA EA	CRITERIA QTY	CRITERIA DEM	TOTAL VA	REMARKS	DEVICE AMPS	DEVICE P	PH	DEVICE AMPS	DEVICE P	REMARKS	TOTAL VA	LOAD TYPE	CRITERIA EA	CRITERIA QTY	CRITERIA DEM	DESCRPTION/ LOCATON	CKT NO
1	PATHWAY LIGHTS	2	45	10	2	450	-----	20	2	A	15	1	-----	10	--	10	1	1	PHOTO CONTROL	2
3	PATHWAY LIGHTS	2	45	10	2	450	-----	-----		B	-----	1	-----	180	--	180	1	1	RECEPTACLE, CAB LIGHT	4
5	PATHWAY LIGHTS	2	45	18	2	810	-----	20	2	A	20	1	-----	--	--	--	--	--	SPACE	6
7	BRIDGE LIGHTS	2	45	18	2	810	-----	-----		B	-----	1	-----	--	--	--	--	--	SPACE	8
9	SPACE	--	--	--	--	--	-----	20	2	A	20	--	-----	--	--	--	--	--	SPACE	10
11	SPACE	--	--	--	--	--	-----	-----		B	-----	--	-----	--	--	--	--	--	SPACE	12
13	SPACE	--	--	--	--	--	-----	-----		A	20	--	-----	--	--	--	--	--	SPACE	14
15	SPACE	--	--	--	--	--	-----	-----		B	-----	--	-----	--	--	--	--	--	SPACE	16
17	SPACE	--	--	--	--	--	-----	30	2	A	-----	--	-----	--	--	--	--	--	SPACE	18
19	SPACE	--	--	--	--	--	-----	----		B	-----	--	-----	--	--	--	--	--	SPACE	20
21	SURGE ARRESTOR	--	--	--	--	--	-----	30	2	A	-----	--	-----	--	--	--	--	--	SPACE	22
23	SURGE ARRESTOR	--	--	--	--	--	-----	----		B	-----	--	-----	--	--	--	--	--	SPACE	24

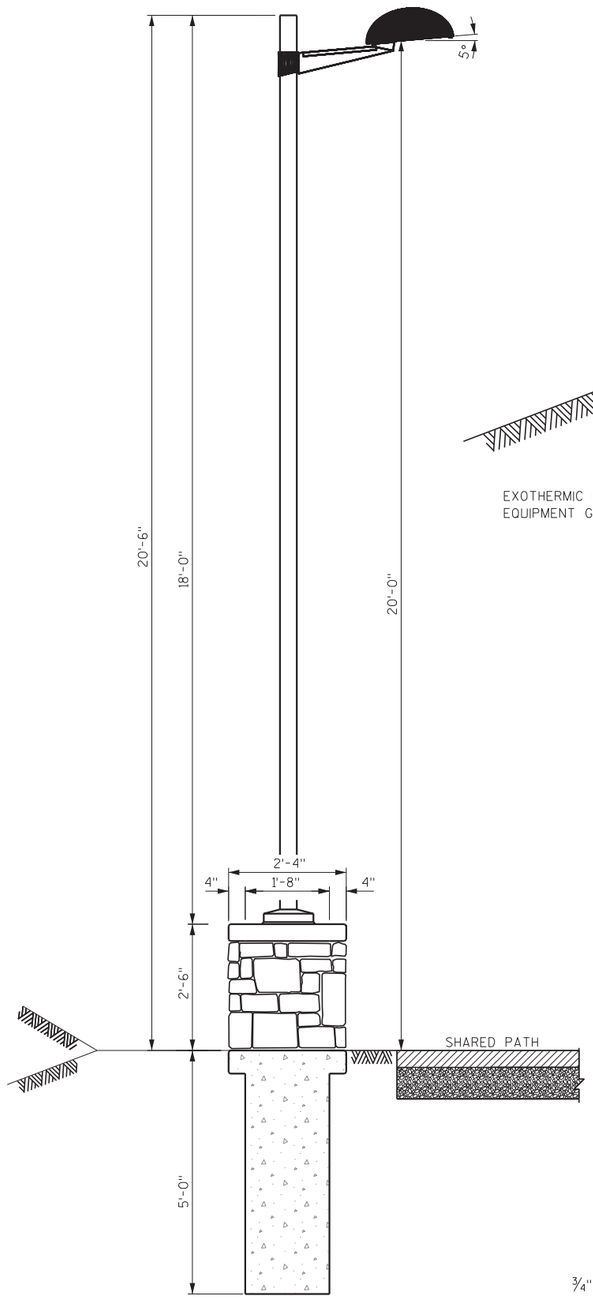
ENDUSE LOADS: PHASE "A" KVA = 1 — PHASE "B" KVA = 1

TOTAL LOADS: CONNECTED KVA = 3 — DEMAND KVA = 3 — DESIGN KVA = 3

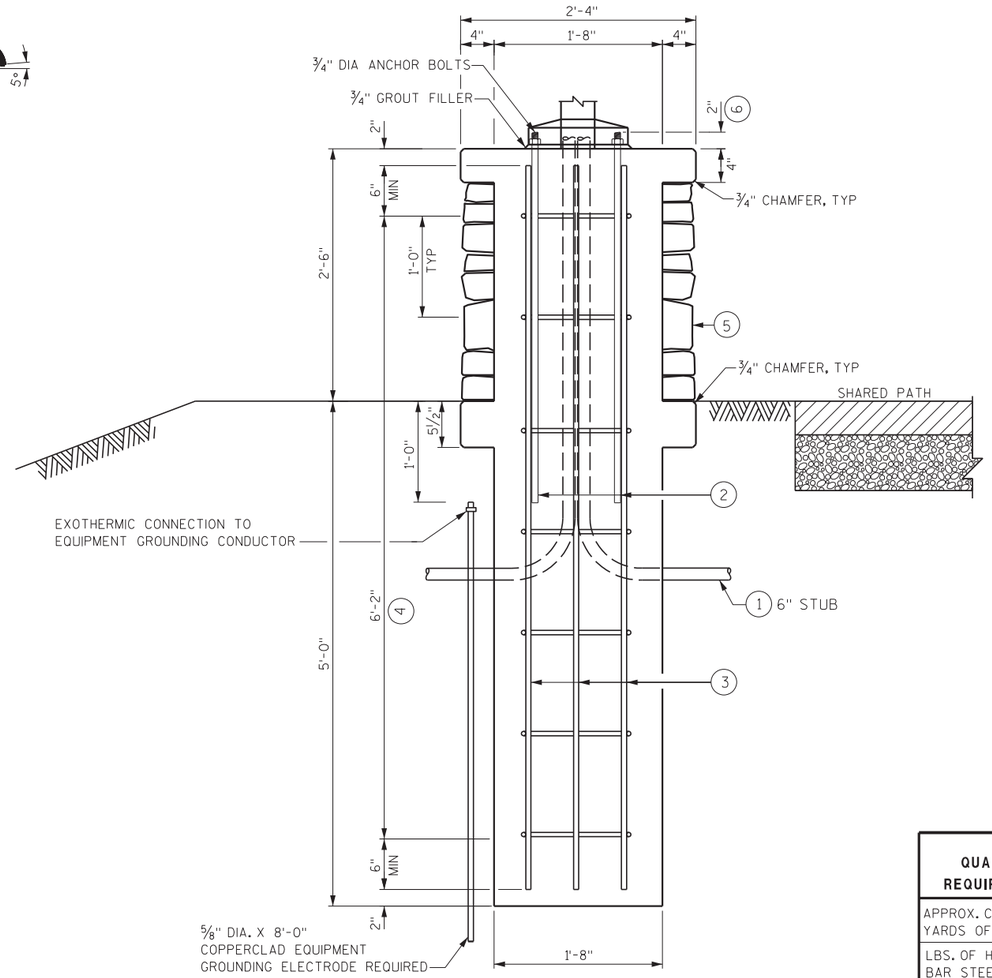
CONNECTED FLA = 11 — DEMAND FLA = 11 — DESIGN FLA = 14

NOTES:

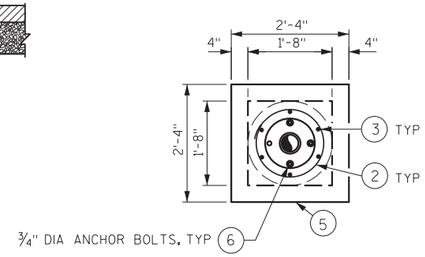
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE / BROWN	PANEL LAYOUT - CONTORL CABINET B	SHEET 99	E



PATHWAY LIGHTING UNIT TYPE A



PATHWAY LIGHTING UNIT TYPE A



BASE PLATE DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE
	A
APPROX. CUBIC YARDS OF CONCRETE	0.75
LBS. OF HOOP BAR STEEL	21
LBS. OF VERTICAL BAR STEEL	29

1. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.
2. (4) 3/4" MINIMUM DIA. X 3'-6" ANCHOR RODS. COORDINATE ARRANGEMENT WITH MANUFACTURER, ALIGN POLE WITH PATH.
3. (6) NO. 4 X 7'-2" BAR STEEL REINFORCEMENT
4. (7) NO. 4 X 4'-6" BAR STEEL REINFORCEMENT @ 1'-0" C-C.
5. 4-INCH STONE VENEER
6. COORDINATE ANCHOR ROD PROJECTION WITH LIGHTING UNITS MANUFACTURER APPROVED SHOP DRAWINGS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER. TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS. THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER. CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR LIGHTING UNIT TYPE A BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD, ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-449, OR ASTM A-687 (GRADE 105).

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

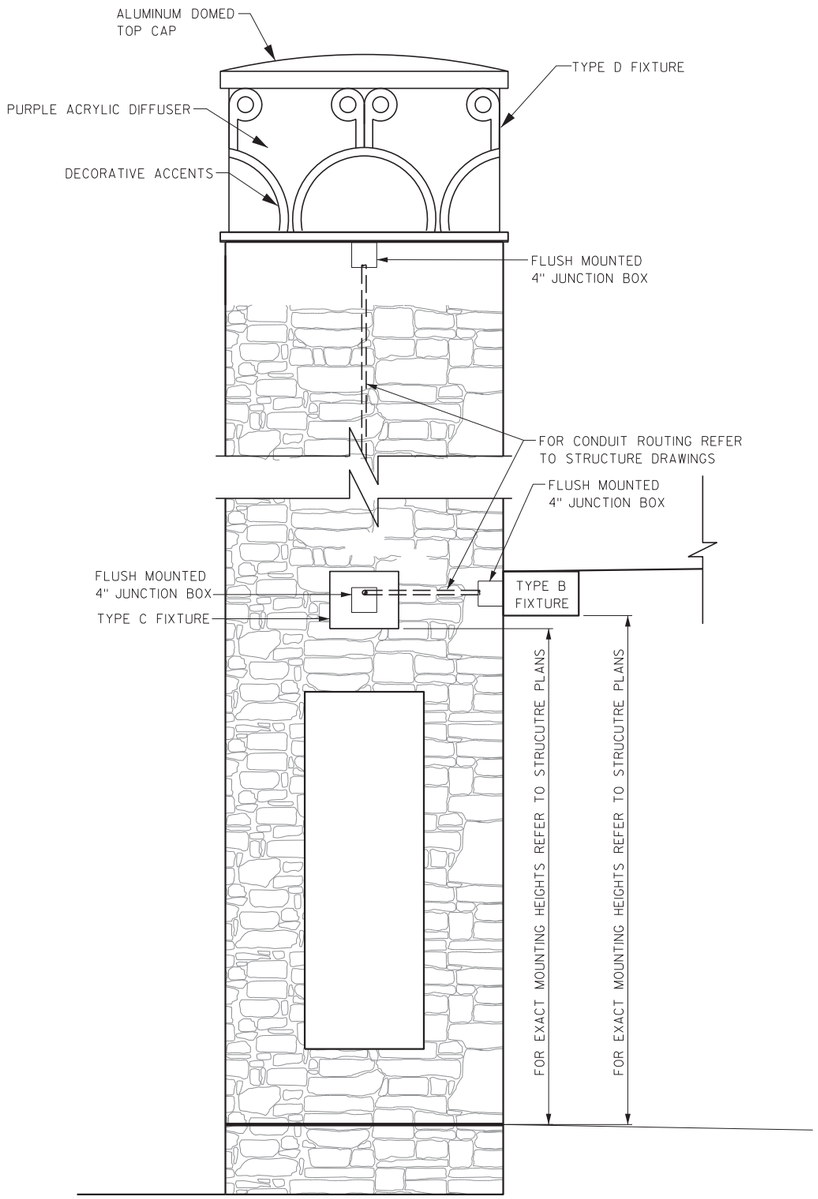
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL PER SECTION 5.17.6.3. AASHTO 2001 4TH EDITION STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS.

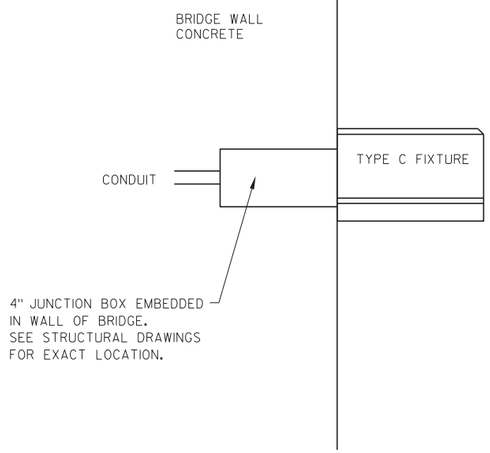
WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

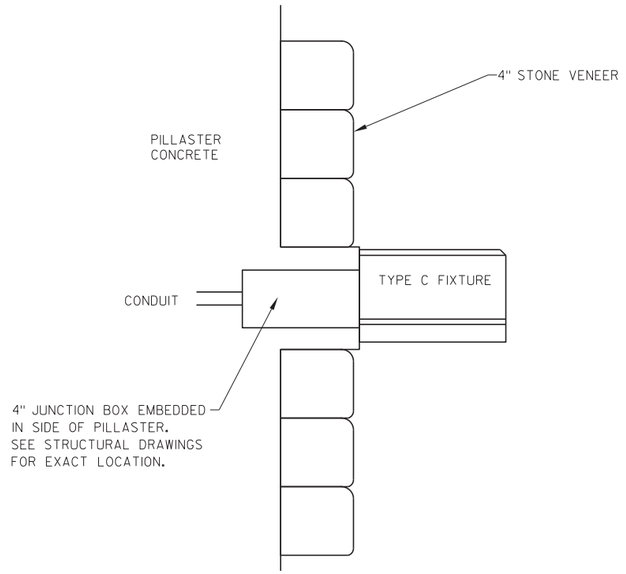
2



TYPE D FIXTURE



TYPE B FIXTURE

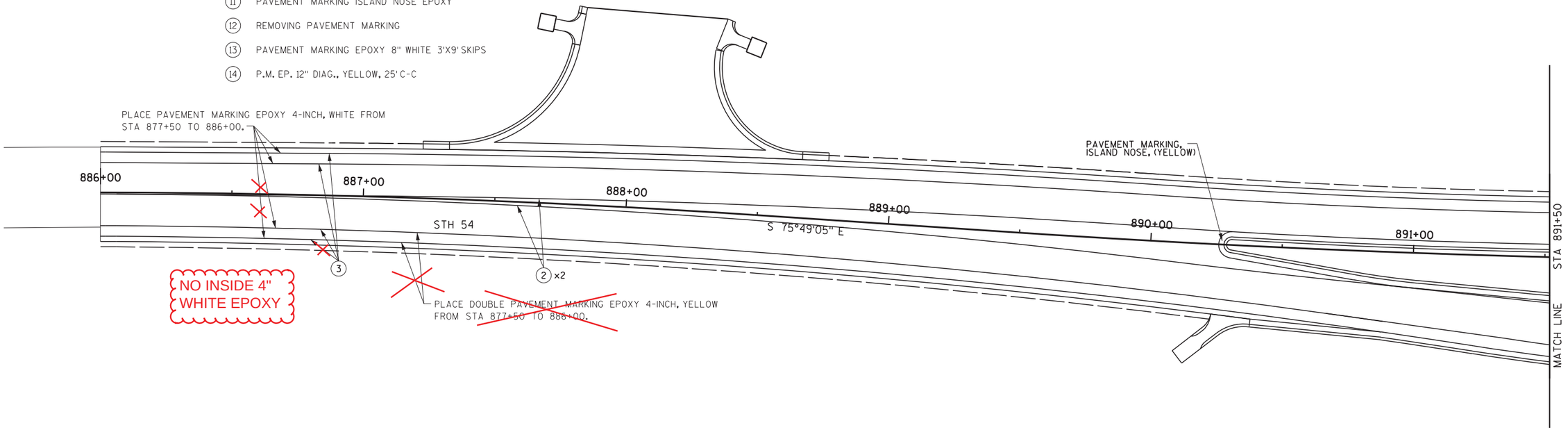


TYPE C FIXTURE

2

LEGEND

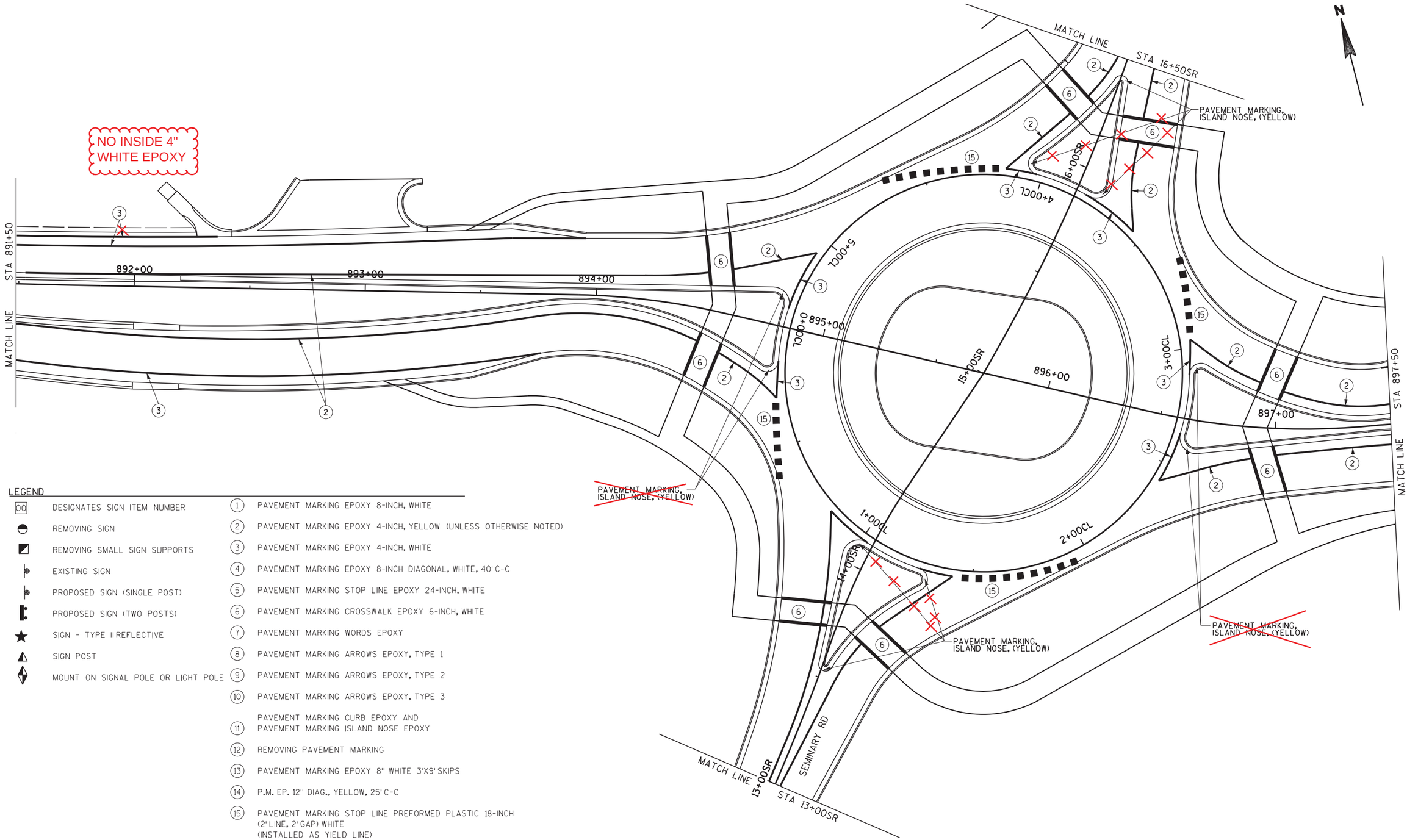
00	DESIGNATES SIGN ITEM NUMBER	(1)	PAVEMENT MARKING EPOXY 8-INCH, WHITE
◓	REMOVING SIGN	(2)	PAVEMENT MARKING EPOXY 4-INCH, YELLOW (UNLESS OTHERWISE NOTED)
◪	REMOVING SMALL SIGN SUPPORTS	(3)	PAVEMENT MARKING EPOXY 4-INCH, WHITE
	EXISTING SIGN	(4)	PAVEMENT MARKING EPOXY 8-INCH DIAGONAL, WHITE, 40' C-C
	PROPOSED SIGN (SINGLE POST)	(5)	PAVEMENT MARKING STOP LINE EPOXY 24-INCH, WHITE
	PROPOSED SIGN (TWO POSTS)	(6)	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH, WHITE
★	SIGN - TYPE II REFLECTIVE	(7)	PAVEMENT MARKING WORDS EPOXY
◭	SIGN POST	(8)	PAVEMENT MARKING ARROWS EPOXY, TYPE 1
◭	MOUNT ON SIGNAL POLE OR LIGHT POLE	(9)	PAVEMENT MARKING ARROWS EPOXY, TYPE 2
		(10)	PAVEMENT MARKING ARROWS EPOXY, TYPE 3
		(11)	PAVEMENT MARKING CURB EPOXY AND PAVEMENT MARKING ISLAND NOSE EPOXY
		(12)	REMOVING PAVEMENT MARKING
		(13)	PAVEMENT MARKING EPOXY 8" WHITE 3'X9' SKIPS
		(14)	P.M. EP. 12" DIAG., YELLOW, 25' C-C



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PAVEMENT MARKING	SHEET 102	E

FILE NAME : PLOT DATE : 01/16/12 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1: WISDOT/CADDS SHEET

2

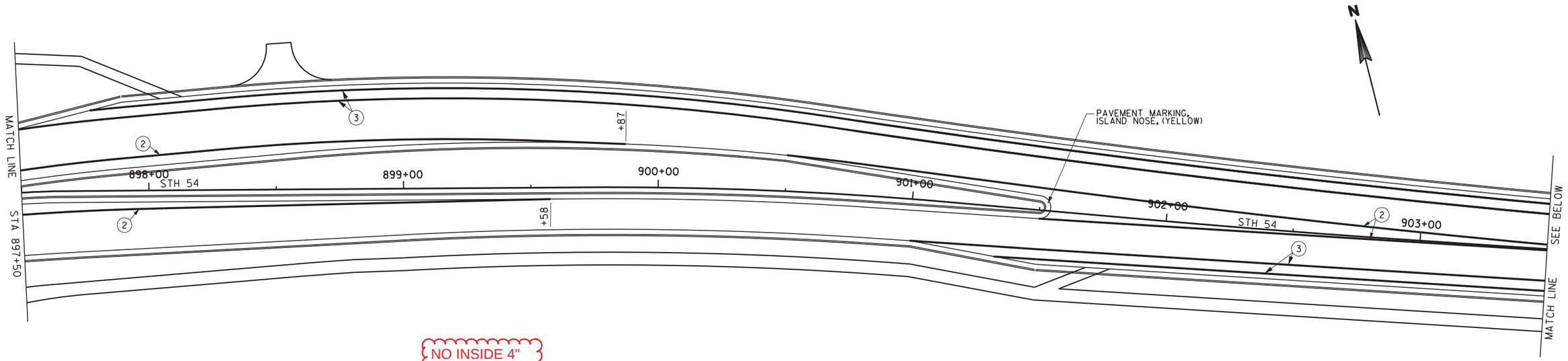


LEGEND

00	DESIGNATES SIGN ITEM NUMBER
	REMOVING SIGN
	REMOVING SMALL SIGN SUPPORTS
	EXISTING SIGN
	PROPOSED SIGN (SINGLE POST)
	PROPOSED SIGN (TWO POSTS)
	SIGN - TYPE II REFLECTIVE
	SIGN POST
	MOUNT ON SIGNAL POLE OR LIGHT POLE

(1)	PAVEMENT MARKING EPOXY 8-INCH, WHITE
(2)	PAVEMENT MARKING EPOXY 4-INCH, YELLOW (UNLESS OTHERWISE NOTED)
(3)	PAVEMENT MARKING EPOXY 4-INCH, WHITE
(4)	PAVEMENT MARKING EPOXY 8-INCH DIAGONAL, WHITE, 40' C-C
(5)	PAVEMENT MARKING STOP LINE EPOXY 24-INCH, WHITE
(6)	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH, WHITE
(7)	PAVEMENT MARKING WORDS EPOXY
(8)	PAVEMENT MARKING ARROWS EPOXY, TYPE 1
(9)	PAVEMENT MARKING ARROWS EPOXY, TYPE 2
(10)	PAVEMENT MARKING ARROWS EPOXY, TYPE 3
(11)	PAVEMENT MARKING CURB EPOXY AND PAVEMENT MARKING ISLAND NOSE EPOXY
(12)	REMOVING PAVEMENT MARKING
(13)	PAVEMENT MARKING EPOXY 8" WHITE 3'X9' SKIPS
(14)	P.M. EP. 12" DIAG., YELLOW, 25' C-C
(15)	PAVEMENT MARKING STOP LINE PREFORMED PLASTIC 18-INCH (2' LINE, 2' GAP) WHITE (INSTALLED AS YIELD LINE)

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PAVEMENT MARKING	SHEET 103	E



NO INSIDE 4" WHITE EPOXY

LEGEND

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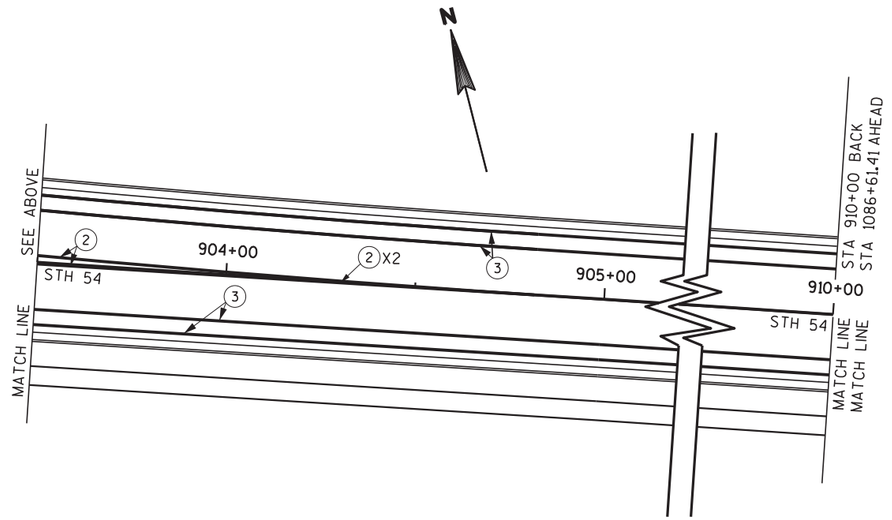
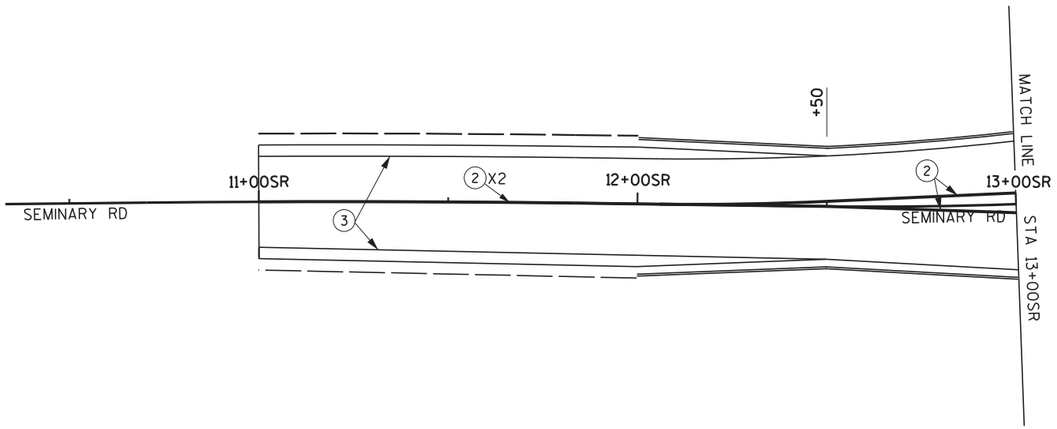


PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PAVEMENT MARKING	SHEET 104	E



LEGEND

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	REMOVING SMALL SIGN SUPPORTS
	EXISTING SIGN
	PROPOSED SIGN (SINGLE POST)
	PROPOSED SIGN (TWO POSTS)
★	SIGN - TYPE II REFLECTIVE
	SIGN POST
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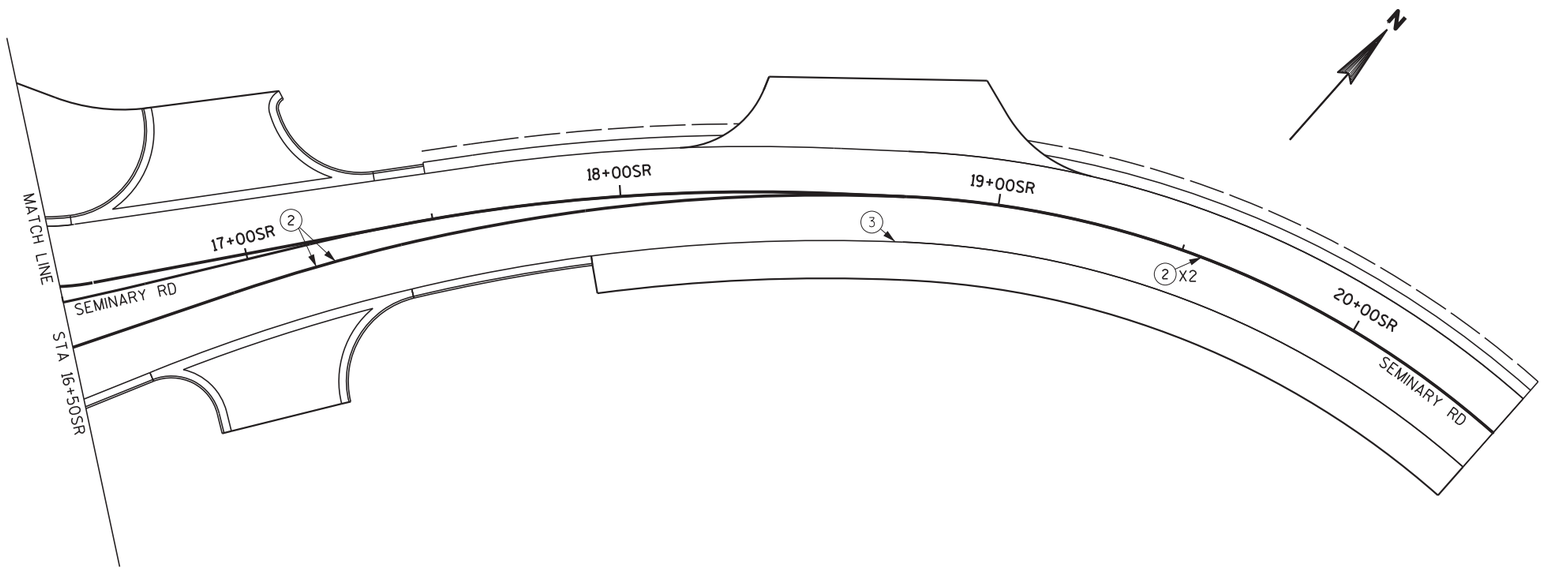

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PAVEMENT MARKING	SHEET 105 E

2

LEGEND

00	DESIGNATES SIGN ITEM NUMBER
	REMOVING SIGN
	REMOVING SMALL SIGN SUPPORTS
	EXISTING SIGN
	PROPOSED SIGN (SINGLE POST)
	PROPOSED SIGN (TWO POSTS)
	SIGN - TYPE II REFLECTIVE
	SIGN POST
	MOUNT ON SIGNAL POLE OR LIGHT POLE

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7	PAVEMENT MARKING WORDS EPOXY
8	PAVEMENT MARKING ARROWS EPOXY, TYPE 1
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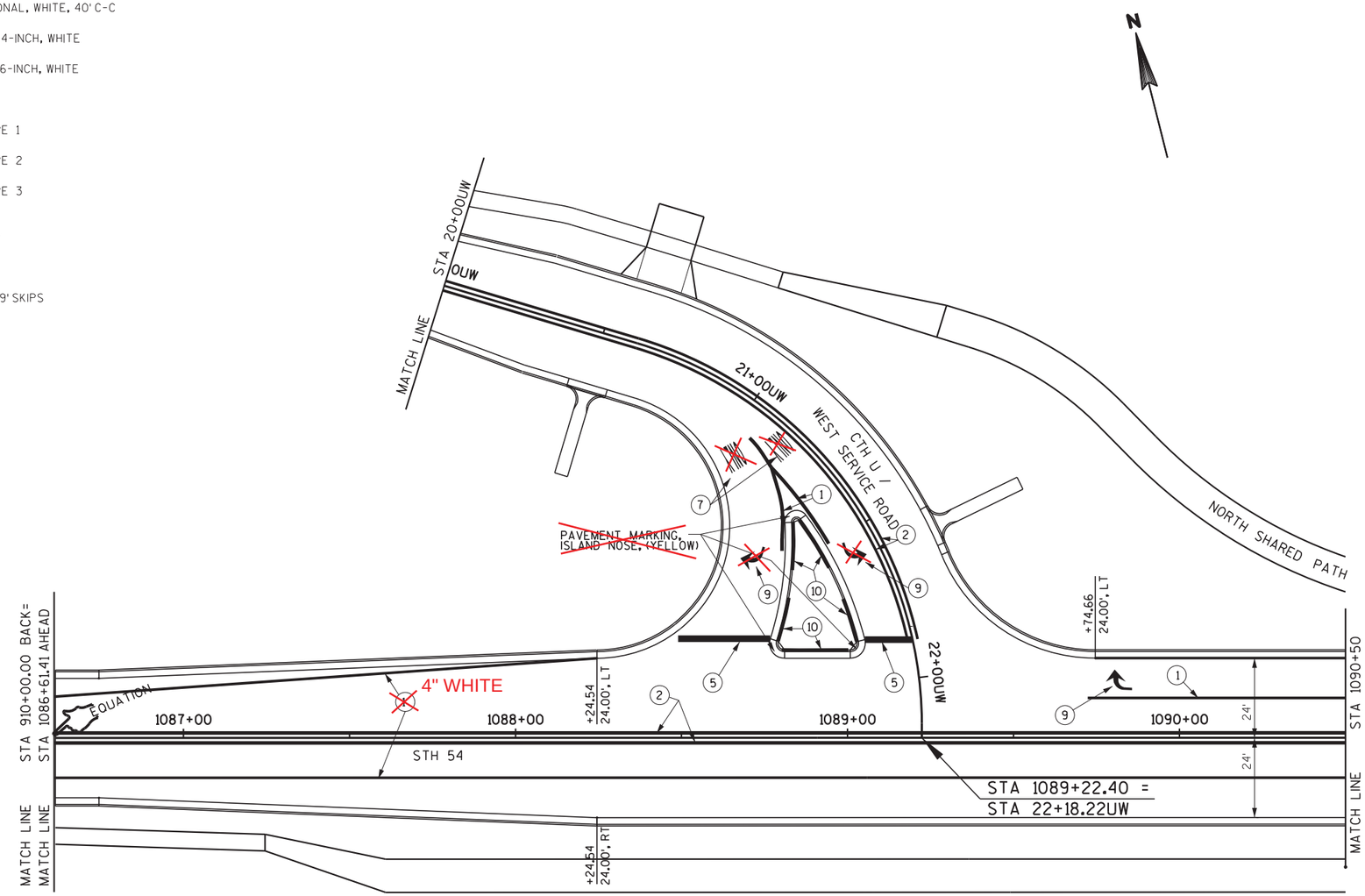

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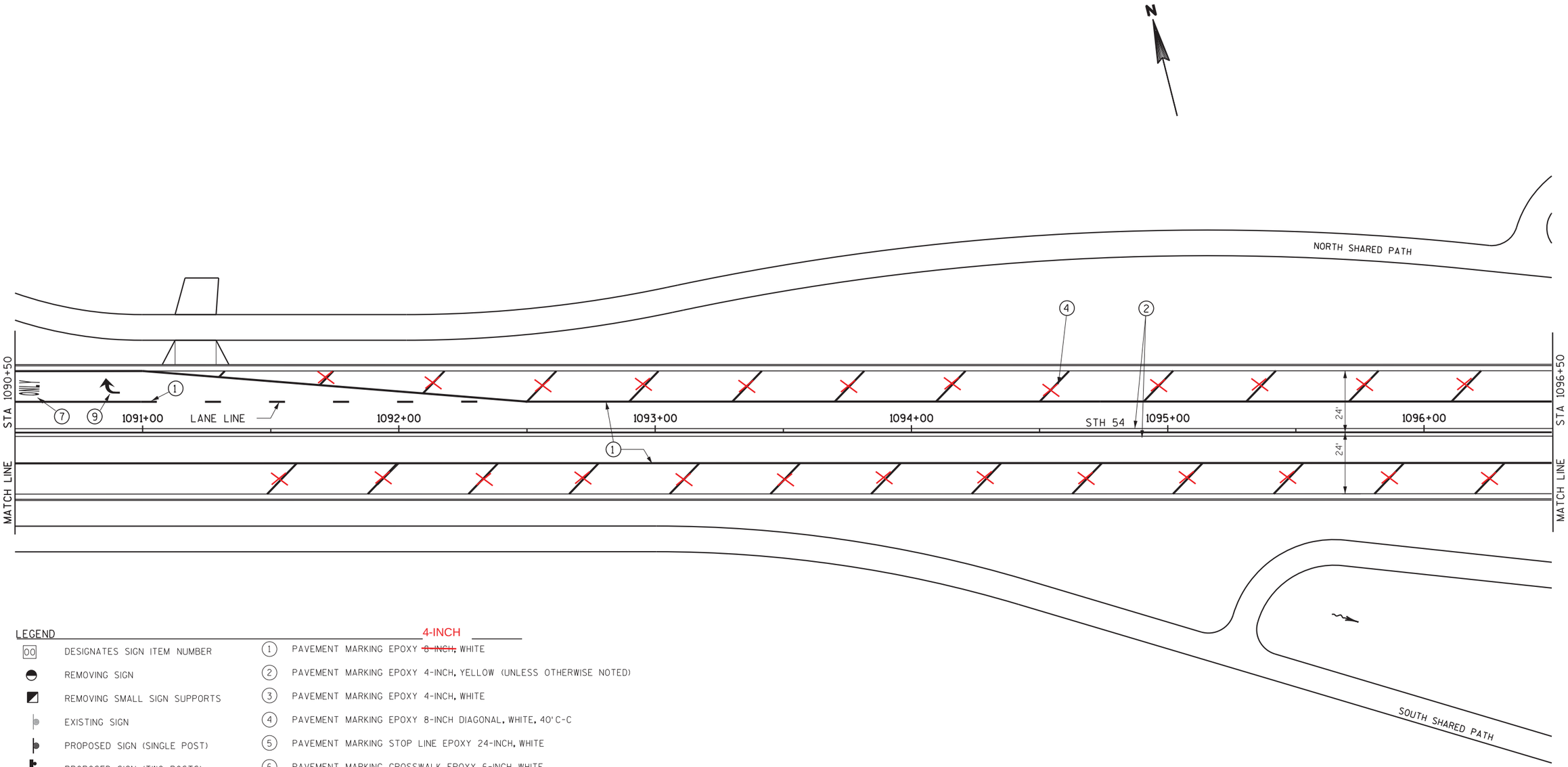

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	SIGN POST
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(12)	REMOVING PAVEMENT MARKING
(13)	PAVEMENT MARKING EPOXY 8" WHITE 3'X9' SKIPS
(14)	P.M. EP. 12" DIAG., YELLOW, 25'C-C

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PAVEMENT MARKING	SHEET 107 E

LEGEND

00	DESIGNATES SIGN ITEM NUMBER	(1)	PAVEMENT MARKING EPOXY 8-INCH, WHITE
	REMOVING SIGN	(2)	PAVEMENT MARKING EPOXY 4-INCH, YELLOW (UNLESS OTHERWISE NOTED)
	REMOVING SMALL SIGN SUPPORTS	(3)	PAVEMENT MARKING EPOXY 4-INCH, WHITE
	EXISTING SIGN	(4)	PAVEMENT MARKING EPOXY 8-INCH DIAGONAL, WHITE, 40' C-C
	PROPOSED SIGN (SINGLE POST)	(5)	PAVEMENT MARKING STOP LINE EPOXY 24-INCH, WHITE
	PROPOSED SIGN (TWO POSTS)	(6)	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH, WHITE
	SIGN - TYPE II REFLECTIVE	(7)	PAVEMENT MARKING WORDS EPOXY
	SIGN POST	(8)	PAVEMENT MARKING ARROWS EPOXY, TYPE 1
	MOUNT ON SIGNAL POLE OR LIGHT POLE	(9)	PAVEMENT MARKING ARROWS EPOXY, TYPE 2
		(10)	PAVEMENT MARKING ARROWS EPOXY, TYPE 3
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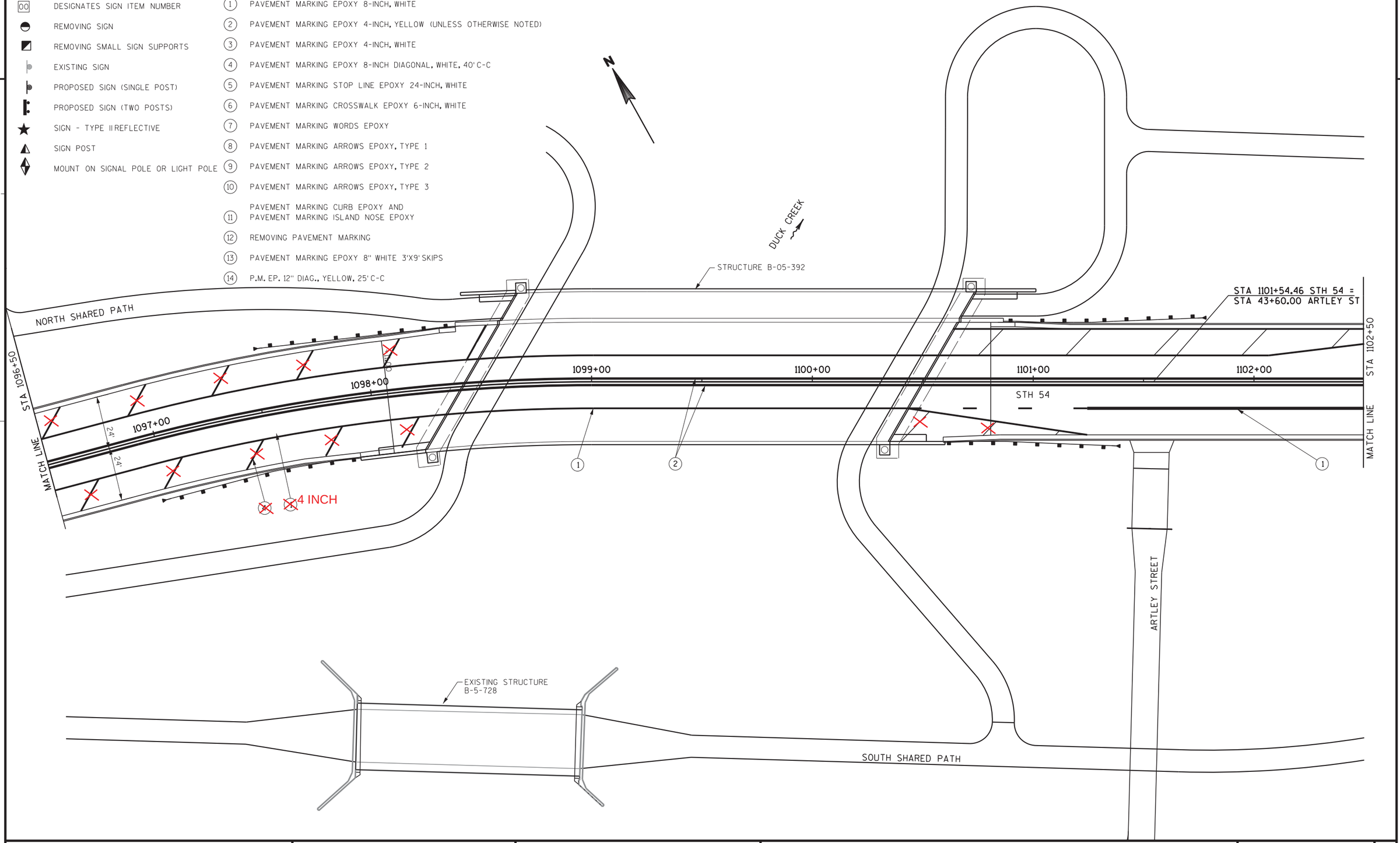
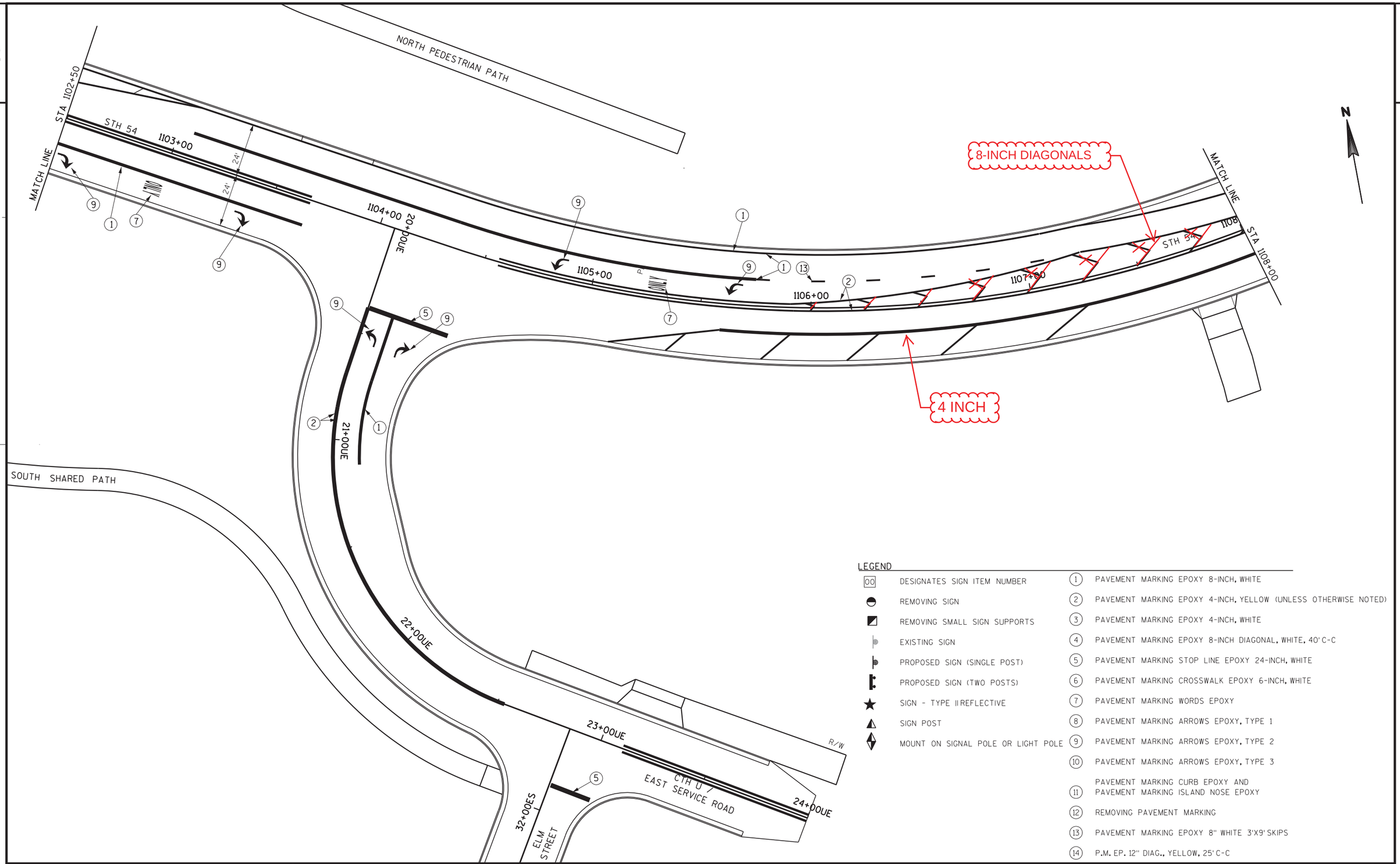


PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	PAVEMENT MARKING	SHEET 108	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\024504_pm.dgn PLOT DATE : 1/9/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.000000 ' / in.

WISDOT/CADDS SHEET 42



LEGEND

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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	PAVEMENT MARKING	SHEET 109	E

2

2

LEGEND

00	DESIGNATES SIGN ITEM NUMBER
	REMOVING SIGN
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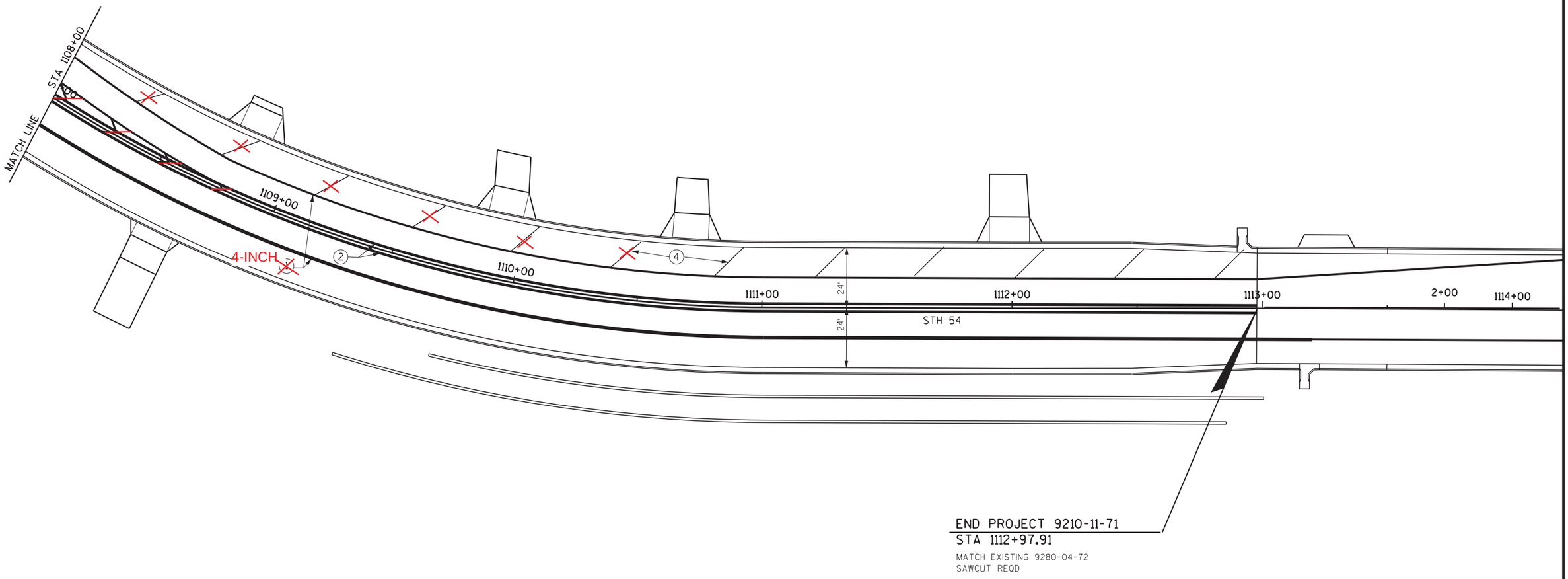

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	PAVEMENT MARKING	SHEET 110	E

2

LEGEND

00	DESIGNATES SIGN ITEM NUMBER
	REMOVING SIGN
	REMOVING SMALL SIGN SUPPORTS
	EXISTING SIGN
	PROPOSED SIGN (SINGLE POST)
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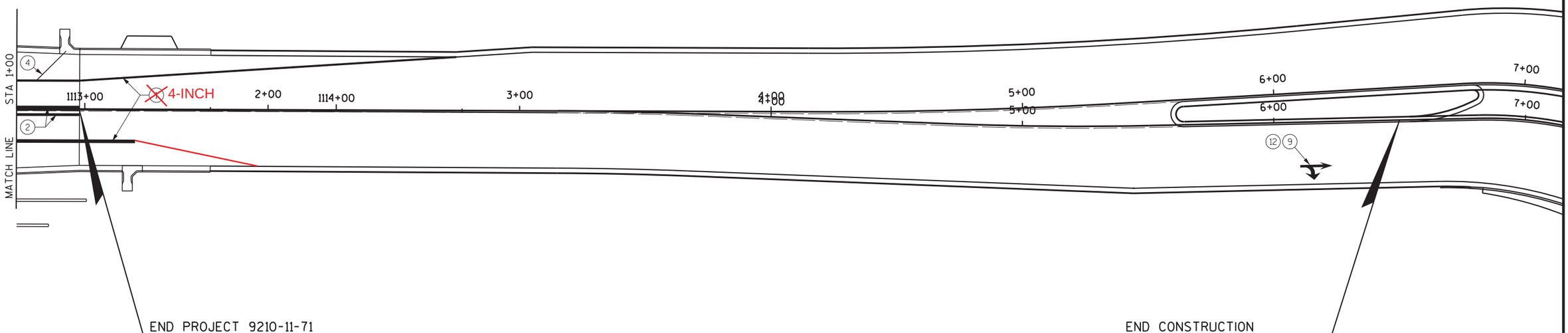


END PROJECT 9210-11-71
STA 1112+97.91
MATCH EXISTING 9280-04-72
SAWCUT REQD

END CONSTRUCTION
STA 6+50.00

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	PAVEMENT MARKING	SHEET 111	E

N

STAGE 1 CONSTRUCTION

CONSTRUCT TEMPORARY PAVEMENT WIDENING ALONG THE SOUTH SIDE OF STH 54.

INSTALL CULVERT @ STA. 886+50 (OFF-PEAK FLAGGING).

INSTALL STORM SEWER FROM STA 899+70 - STA 903+50.

REMOVE EXISTING TRAFFIC SIGNAL.

TRAFFIC

TRAFFIC REMAINS ON EXISTING ROADWAYS

ALL-WAY STOP INSTALLED

MAX. 11' WIDTH
W12-52
48" X 48"
PLACE 1 MILE (APPROX) IN ADVANCE OF
OF THE NORTH, SOUTH AND WEST APPROACHES

ADD TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW) & REMOVE EXISTING CL FROM STA 877+50- STA 895+00

SEE S.D.D. "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED HIGHWAY" FOR ADVANCED SIGNING.

MB

TRAFFIC CONTROL SIGN PORTABLE CHANGEABLE MESSAGE (PCM) (PLACE SIGNS ON STH 54 ONE WEEK PRIOR TO THE START OF THE PROJECT TO INFORM PUBLIC OF PROJECT) (TYP.)

PCM MESSAGE SHALL STATE "STOP AHEAD" FOR THE FIRST WEEK OF CONSTRUCTION.

STOP R1-1 36" X 36"

ADD TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH

ROAD WORK AHEAD W20-1

320' FROM INTERSECTION

MAINTAIN EXISTING STOP LINE

W03-1 36" X 36"

STH 54

W. SERVICE ROAD

50' (TYP.)

SEMINARY ROAD

ADD TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW) & REMOVE EXISTING CL FROM STA 896+25'- STA 910+00

MATCH LINE STA. 910+00

ADD TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (DOUBLE YELLOW) & REMOVE EXISTING CL FROM STA 11+00'SR'- STA 14+50'SR'

SEE S.D.D. "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED HIGHWAY" FOR ADVANCED SIGNING.

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- FLAGS (16" X 16")
- TEMPORARY PAVEMENT
- FLEXIBLE TUBULAR MARKER
- DELINEATORS TEMPORARY (WHITE)

NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. REMOVING/REPLACING OR COVERING/UNCOVERING SIGNS WILL BE INCIDENTAL TO OTHER TRAFFIC CONTROL ITEMS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS, ARROW BOARDS AND SIGN MESSAGE BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS, SIGN MESSAGE BOARDS, AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF THE DRUMS.

IF SIGNS ARE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TRAFFIC CONTROL SIGNING SHALL CONFORM TO: PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE WISCONSIN SUPPLEMENT TO THE MUTCD, AND OTHER CONTRACT DOCUMENTS.

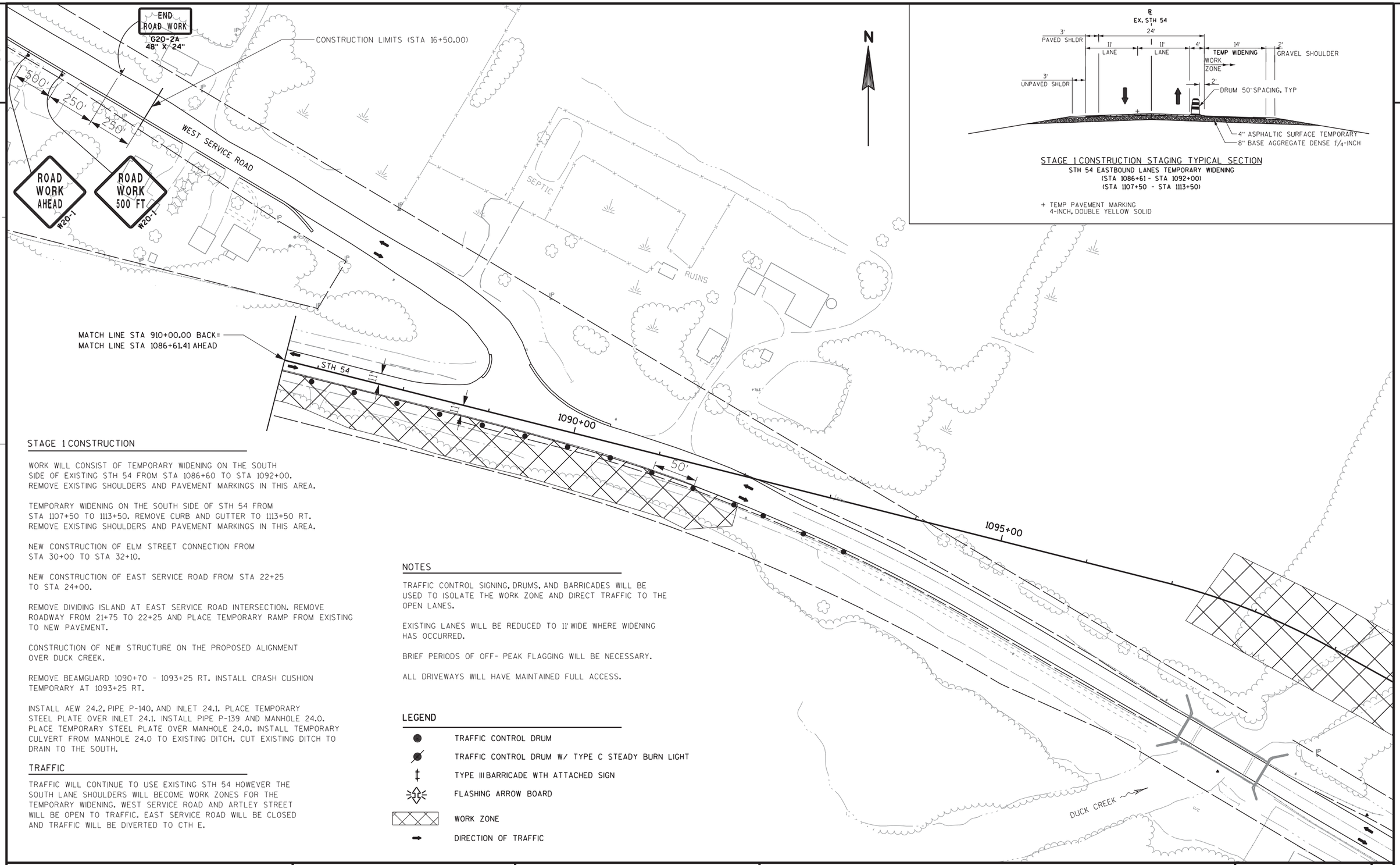
THE TURNING OF TRAFFIC CONTROL DEVICES WHEN NOT IN USE TO OBSCURE THE MESSAGE WILL NOT BE ALLOWED.

REMOVE PAVEMENT MARKINGS NOT APPROPRIATE FOR THE TRAVEL PATH IN USE.

TRAFFIC CONTROL SIGNING, DRUMS, AND BARRICADES WILL BE USED TO ISOLATE THE WORK ZONE AND DIRECT TRAFFIC TO THE OPEN LANES.

INSTALL ALL PERMANENT SIGNS AS SOON AS THEY CAN BE INSTALLED IN THE FINAL LOCATION AND ONCE THE SIGN MESSAGE IS APPLICABLE TO TRAFFIC PATTERNS. PERMANENT SIGNS SHOWN ON TRAFFIC CONTROL PLANS ARE REQUIRED. OTHER SIGNS NOT SHOWN MAY BE INSTALLED IF APPROVED BY THE ENGINEER.

APPLY TEMPORARY PAVEMENT MARKING USING REMOVABLE TAPE INSTEAD OF REFLECTIVE PAINT IN ANY LOCATION WHERE THE FINAL PAVEMENT SURFACE IS CONSTRUCTED.



STAGE 1 CONSTRUCTION STAGING TYPICAL SECTION

STH 54 EASTBOUND LANES TEMPORARY WIDENING
(STA 1086+61 - STA 1092+00)
(STA 1107+50 - STA 1113+50)

+ TEMP PAVEMENT MARKING
4-INCH, DOUBLE YELLOW SOLID

STAGE 1 CONSTRUCTION

WORK WILL CONSIST OF TEMPORARY WIDENING ON THE SOUTH SIDE OF EXISTING STH 54 FROM STA 1086+60 TO STA 1092+00. REMOVE EXISTING SHOULDERS AND PAVEMENT MARKINGS IN THIS AREA.

TEMPORARY WIDENING ON THE SOUTH SIDE OF STH 54 FROM STA 1107+50 TO 1113+50. REMOVE CURB AND GUTTER TO 1113+50 RT. REMOVE EXISTING SHOULDERS AND PAVEMENT MARKINGS IN THIS AREA.

NEW CONSTRUCTION OF ELM STREET CONNECTION FROM STA 30+00 TO STA 32+10.

NEW CONSTRUCTION OF EAST SERVICE ROAD FROM STA 22+25 TO STA 24+00.

REMOVE DIVIDING ISLAND AT EAST SERVICE ROAD INTERSECTION. REMOVE ROADWAY FROM 21+75 TO 22+25 AND PLACE TEMPORARY RAMP FROM EXISTING TO NEW PAVEMENT.

CONSTRUCTION OF NEW STRUCTURE ON THE PROPOSED ALIGNMENT OVER DUCK CREEK.

REMOVE BEAMGUARD 1090+70 - 1093+25 RT. INSTALL CRASH CUSHION TEMPORARY AT 1093+25 RT.

INSTALL AEW 24.2, PIPE P-140, AND INLET 24.1. PLACE TEMPORARY STEEL PLATE OVER INLET 24.1. INSTALL PIPE P-139 AND MANHOLE 24.0. PLACE TEMPORARY STEEL PLATE OVER MANHOLE 24.0. INSTALL TEMPORARY CULVERT FROM MANHOLE 24.0 TO EXISTING DITCH. CUT EXISTING DITCH TO DRAIN TO THE SOUTH.

TRAFFIC

TRAFFIC WILL CONTINUE TO USE EXISTING STH 54 HOWEVER THE SOUTH LANE SHOULDERS WILL BECOME WORK ZONES FOR THE TEMPORARY WIDENING. WEST SERVICE ROAD AND ARTLEY STREET WILL BE OPEN TO TRAFFIC. EAST SERVICE ROAD WILL BE CLOSED AND TRAFFIC WILL BE DIVERTED TO CTH E.

NOTES

TRAFFIC CONTROL SIGNING, DRUMS, AND BARRICADES WILL BE USED TO ISOLATE THE WORK ZONE AND DIRECT TRAFFIC TO THE OPEN LANES.

EXISTING LANES WILL BE REDUCED TO 11' WIDE WHERE WIDENING HAS OCCURRED.

BRIEF PERIODS OF OFF- PEAK FLAGGING WILL BE NECESSARY.

ALL DRIVEWAYS WILL HAVE MAINTAINED FULL ACCESS.

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM W/ TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WTH ATTACHED SIGN
- FLASHING ARROW BOARD
- WORK ZONE
- DIRECTION OF TRAFFIC

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CONSTRUCTION STAGING - STAGE 1	SHEET 113	E

2

N

STAGE 1 CONSTRUCTION

WORK WILL CONSIST OF TEMPORARY WIDENING ON THE SOUTH SIDE OF EXISTING STH 54 FROM STA 1086+61 TO STA 1092+00. REMOVE EXISTING SHOULDERS AND PAVEMENT MARKINGS IN THIS AREA.

TEMPORARY WIDENING ON THE SOUTH SIDE OF STH 54 FROM STA 1107+50 TO 1113+50. REMOVE CURB AND GUTTER TO STA 1113+50 RT. REMOVE EXISTING SHOULDERS AND PAVEMENT MARKINGS IN THIS AREA.

NEW CONSTRUCTION OF ELM STREET CONNECTION FROM STA 30+00 TO STA 32+10.

NEW CONSTRUCTION OF EAST SERVICE ROAD FROM STA 22+25 TO STA 24+00.

REMOVE DIVIDING ISLAND AT EAST SERVICE ROAD INTERSECTION. REMOVE ROADWAY FROM STA 21+75 TO 22+25 AND PLACE TEMPORARY RAMP FROM EXISTING TO NEW PAVEMENT.

CONSTRUCTION OF NEW STRUCTURE ON THE PROPOSED ALIGNMENT OVER DUCK CREEK.

REMOVE BEAMGUARD STA 1090+70 - 1093+25 RT. INSTALL CRASH CUSHION TEMPORARY AT STA 1093+25 RT.

INSTALL AEW 24.2, PIPE P-140, AND INLET 24.1. PLACE TEMPORARY STEEL PLATE OVER INLET 24.1. INSTALL PIPE P-139 AND MANHOLE 24.0. PLACE TEMPORARY STEEL PLATE OVER MANHOLE 24.0. INSTALL TEMPORARY CULVERT FROM MANHOLE 24.0 TO EXISTING DITCH. CUT EXISTING DITCH TO DRAIN TO THE SOUTH.

TRAFFIC

TRAFFIC WILL CONTINUE TO USE EXISTING STH 54 HOWEVER THE SOUTH LANE SHOULDERS WILL BECOME WORK ZONES FOR THE TEMPORARY WIDENING. WEST SERVICE ROAD AND ARTLEY STREET WILL BE OPEN TO TRAFFIC. EAST SERVICE ROAD WILL BE CLOSED AND TRAFFIC WILL BE DIVERTED TO CTH E.

NOTES

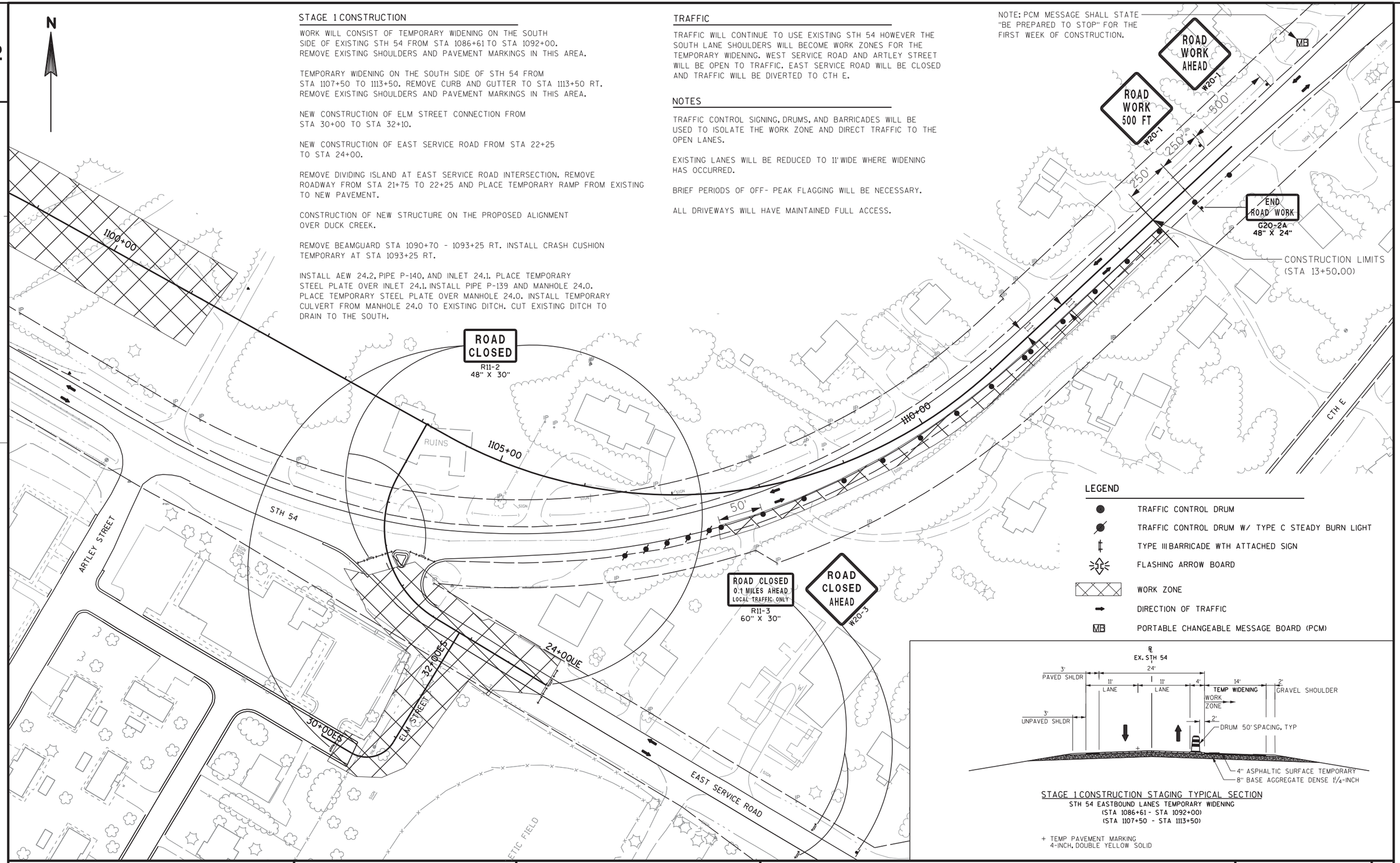
TRAFFIC CONTROL SIGNING, DRUMS, AND BARRICADES WILL BE USED TO ISOLATE THE WORK ZONE AND DIRECT TRAFFIC TO THE OPEN LANES.

EXISTING LANES WILL BE REDUCED TO 11' WIDE WHERE WIDENING HAS OCCURRED.

BRIEF PERIODS OF OFF- PEAK FLAGGING WILL BE NECESSARY.

ALL DRIVEWAYS WILL HAVE MAINTAINED FULL ACCESS.

NOTE: PCM MESSAGE SHALL STATE "BE PREPARED TO STOP" FOR THE FIRST WEEK OF CONSTRUCTION.



LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM W/ TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WTH ATTACHED SIGN
- FLASHING ARROW BOARD
- WORK ZONE
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD (PCM)

STAGE 1 CONSTRUCTION STAGING TYPICAL SECTION
STH 54 EASTBOUND LANES TEMPORARY WIDENING
(STA 1086+61 - STA 1092+00)
(STA 1107+50 - STA 1113+50)

+ TEMP PAVEMENT MARKING
4-INCH, DOUBLE YELLOW SOLID

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CONSTRUCTION STAGING - STAGE 1	SHEET 114	E

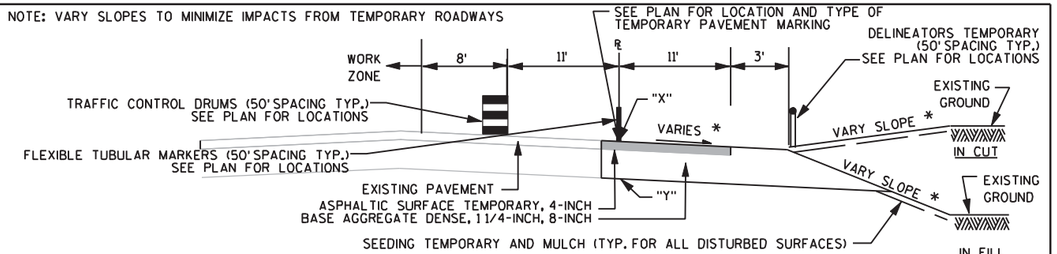
FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\026002_s1 .dgn | PLOT DATE : 10/30/2011 | PLOT BY : 11721as | PLOT NAME : | PLOT SCALE : 100.000000 ' / in.

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE BOARD (MB)
- FLAGS (16" X 16")
- TEMPORARY PAVEMENT
- FLEXIBLE TUBULAR MARKER
- DELINEATORS TEMPORARY (WHITE)

N

* NOTE: VARY SLOPES TO MINIMIZE IMPACTS FROM TEMPORARY ROADWAYS



PROPOSED TYPICAL SECTON
STH 54 TEMPORARY ROADWAY
WIDENING OFF EXISTING PAVEMENT

"X" = POINT REFERRED TO ON PROFILE

"Y" = POINT REFERRED TO ON CROSS SECTION

STA 882+50 - STA 890+25
STA 900+00 - STA 910+00

WIDENING TO THE RIGHT SHOWN. MIRROR DETAILS FOR WIDENING TO THE LEFT SIDE.

SEE STAGE 2 DETAIL SHEETS FOR TRAFFIC CONTROL DEVICES ALONG STH 54.

SEE S.D.D. "BARRICADES AND SIGNS FOR MAINLINE CLOSURES, DETAIL C "MAINLINE CLOSURE, NO POSTED DETOUR.

STH 54

W. SERVICE ROAD

MAINTAIN EXISTING PAVEMENT MARKINGS

SEE STAGE 2 DETAIL SHEETS FOR TRAFFIC CONTROL DEVICES ALONG SEMINARY ROAD

SEMINARY ROAD

MATCH LINE STA. 910+00

STAGE 2 CONSTRUCTION

EAST AND WEST OF THE STH 54 APPROACH MEDIANS:
CONSTRUCT ALL PROPOSED WORK LEFT OF THE PROPOSED CENTERLINE TO THE NORTH EDGE OF PAVEMENT FROM STA 886+00 TO STA 890+25 AND FROM STA 901+55 TO STA 910+00

STH 54 EB APPROACH MEDIAN:
BOTH SIDES OF CURB AND GUTTER ALONG THE MEDIAN FROM STA 890+25 TO STA 894+75

STH 54 WB APPROACH MEDIAN:
CURB AND GUTTER ON THE NORTH SIDE OF THE MEDIAN FROM STA 896+70 TO STA 899+20. CURB AND GUTTER ON BOTH SIDES OF THE MEDIAN FROM STA 899+70 TO STA 901+55

NORTH LEG OF SEMINARY ROAD.

PLACE TEMPORARY PAVEMENT NEEDED FOR STAGE 3 (PAVEMENT IN PROPOSED ROUNDABOUT CIRCLE FROM 895+10 TO 896+40, LT; TEMPORARY WIDENING FROM STA 883+65 TO STA 895+00, LT AND FROM STA 896+65 TO STA 910+00, LT.)

TRAFFIC

STH 54 TRAFFIC WILL USE THE SOUTH SIDE OF STH 54 AND TEMPORARY WIDENING TO THE SOUTH.

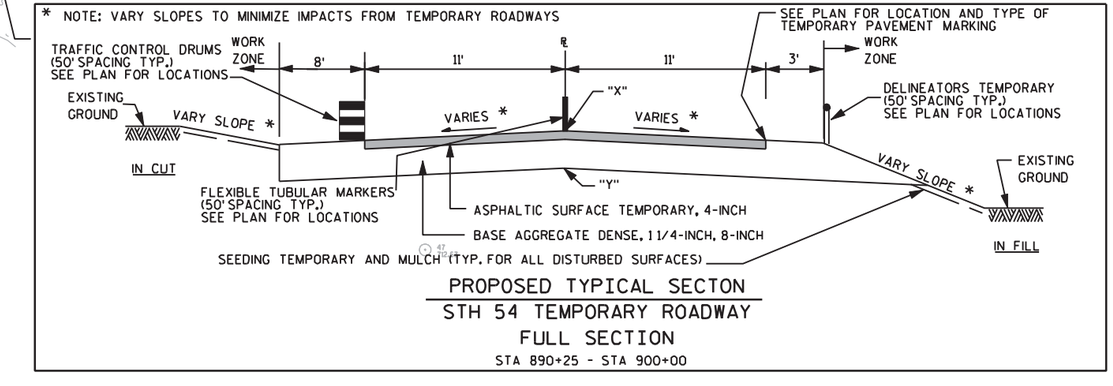
THE NORTH LEG OF SEMINARY ROAD WILL BE CLOSED. TRAFFIC WILL USE THE SERVICE ROAD.

THE SOUTH LEG OF SEMINARY ROAD WILL REMAIN OPEN.

2 OF THE 4 DRIVEWAYS, (1 ON STH 54 AND 1 ON SEMINARY ROAD) PROVIDING ACCESS TO THE BUSINESS IN THE NORTHWEST QUADRANT OF THE PROJECT MUST REMAIN OPEN AT ALL TIMES.

THE DRIVEWAY AT STA 898+50, 45 FT LEFT WILL BE CLOSED, WITH ACCESS PROVIDED BY THE WEST SERVICE ROAD TO THE NORTH.

* NOTE: VARY SLOPES TO MINIMIZE IMPACTS FROM TEMPORARY ROADWAYS



PROPOSED TYPICAL SECTON
STH 54 TEMPORARY ROADWAY
FULL SECTION

STA 890+25 - STA 900+00

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - STAGE 2	SHEET 115	E

2

N

LEGEND

1 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (WHITE)

2 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (YELLOW)

REMOVE EXISTING PAVEMENT MARKING AS REQUIRED
STA. 882+50 - STA. 890+50

SEE S.D.D. "TRAFFIC CONTROL, TEMPORARY BYPASS ROADWAY" FOR ADVANCED WARNING SIGNS

ROAD CLOSED
R11-2
48" X 30"

W01-4R

45 M.P.H.
W013-1
18" X 18"

50' (TYP.)

2 (DOUBLE)

50' (TYP.)

883+00

884+00

885+00

886+00

887+00

888+00

STH 54

TEMPORARY STH 54

11'

11'

3'

1

1

2 (DOUBLE)

50' (TYP.)

W01-6
48" X 24"

W01-4R

45 M.P.H.
W013-1
18" X 18"

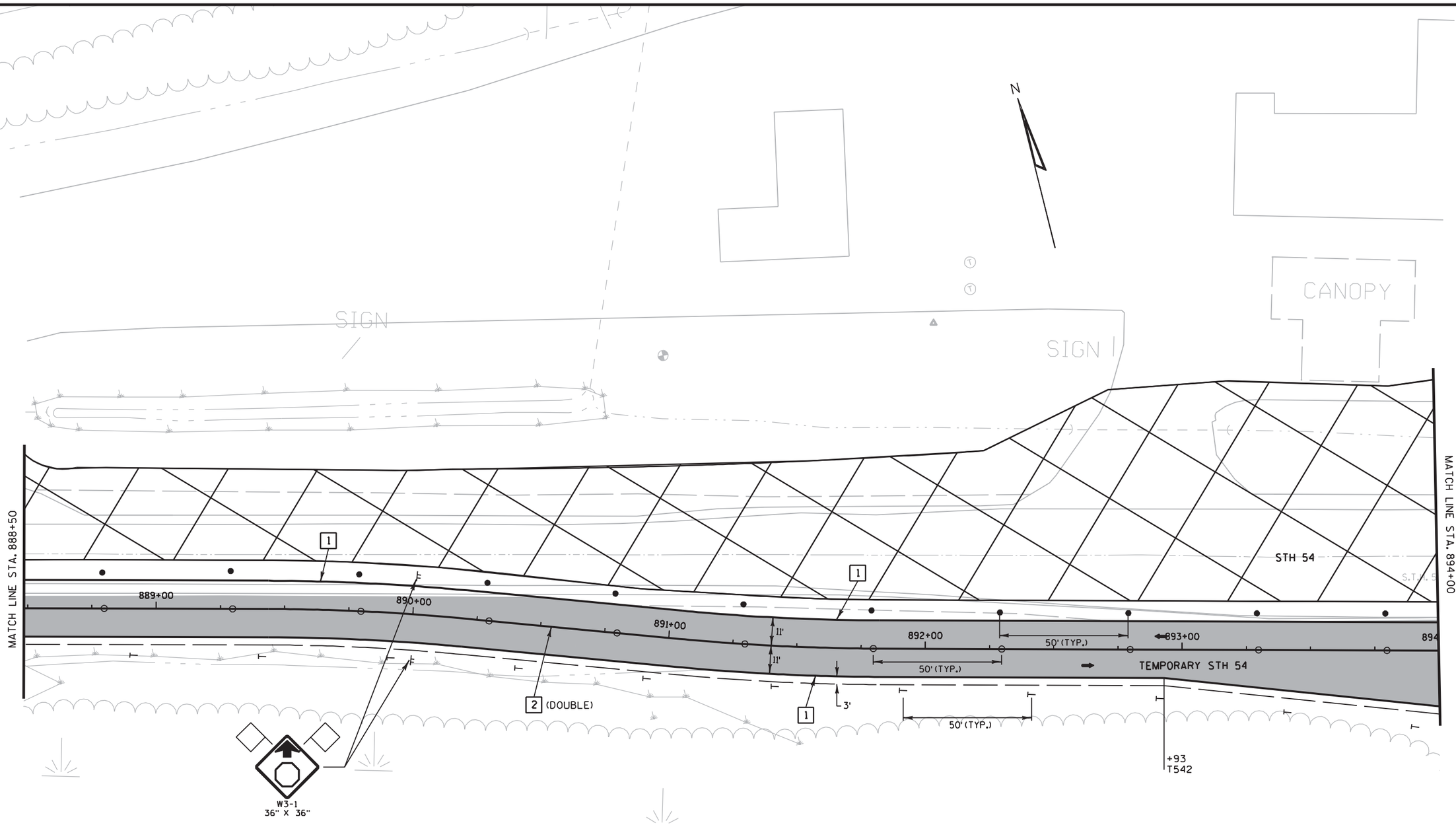
PLACE AT
STA. 877+50, RT

PLACE DRUMS AT 100 FT SPACING WITH TYPE C (STEADY-BURN) LIGHTS ON BOTH SIDES FROM STA. 877+50 TO STA. 882+50

MATCH LINE STA. 888+50

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - STAGE 2	SHEET 116	E

2



LEGEND

1 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (WHITE)

2 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (YELLOW)

2

N

IP

SIGN

IP

IP

MATCH LINE STA. 894+00

MATCH LINE STA. 900+00

WO1-7
48" X 24"

R3-1
24" X 24"

STH 54

(DOUBLE)
2

1

3

895+00

896+00

897+00

898+00

899+00

11'

11'

50' (TYP.)

50' (TYP.)

50' (TYP.)

TEMPORARY STH 54

3'

896+08
T542

ROAD
CLOSED
R11-2
48" X 30"

STOP
R1-1
36" X 36"

2
(DOUBLE)

1

MAINTAIN STAGE 1
PAVEMENT MARKING

R3-2
24" X 24"

+16.5
T542

STOP
R1-1
36" X 36"

REMOVE EXISTING PAVEMENT
MARKING FROM INTERSECTION

SEMINARY ROAD

895+52
T542

STOP
R1-1
36" X 36"

MATCH LINE STA. 13+50

IP

SIGN

LEGEND

1 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (WHITE)

2 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (YELLOW)

3 TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - STAGE 2	SHEET	E

FILE NAME : g:\dlz\dz-09043\dgn\plan sheets\025023_tc_stage2.dgn PLOT DATE : 10/28/2011 PLOT BY : KL Engineering PLOT NAME : PLOT SCALE :

WISDOT/CADDS SHEET 42

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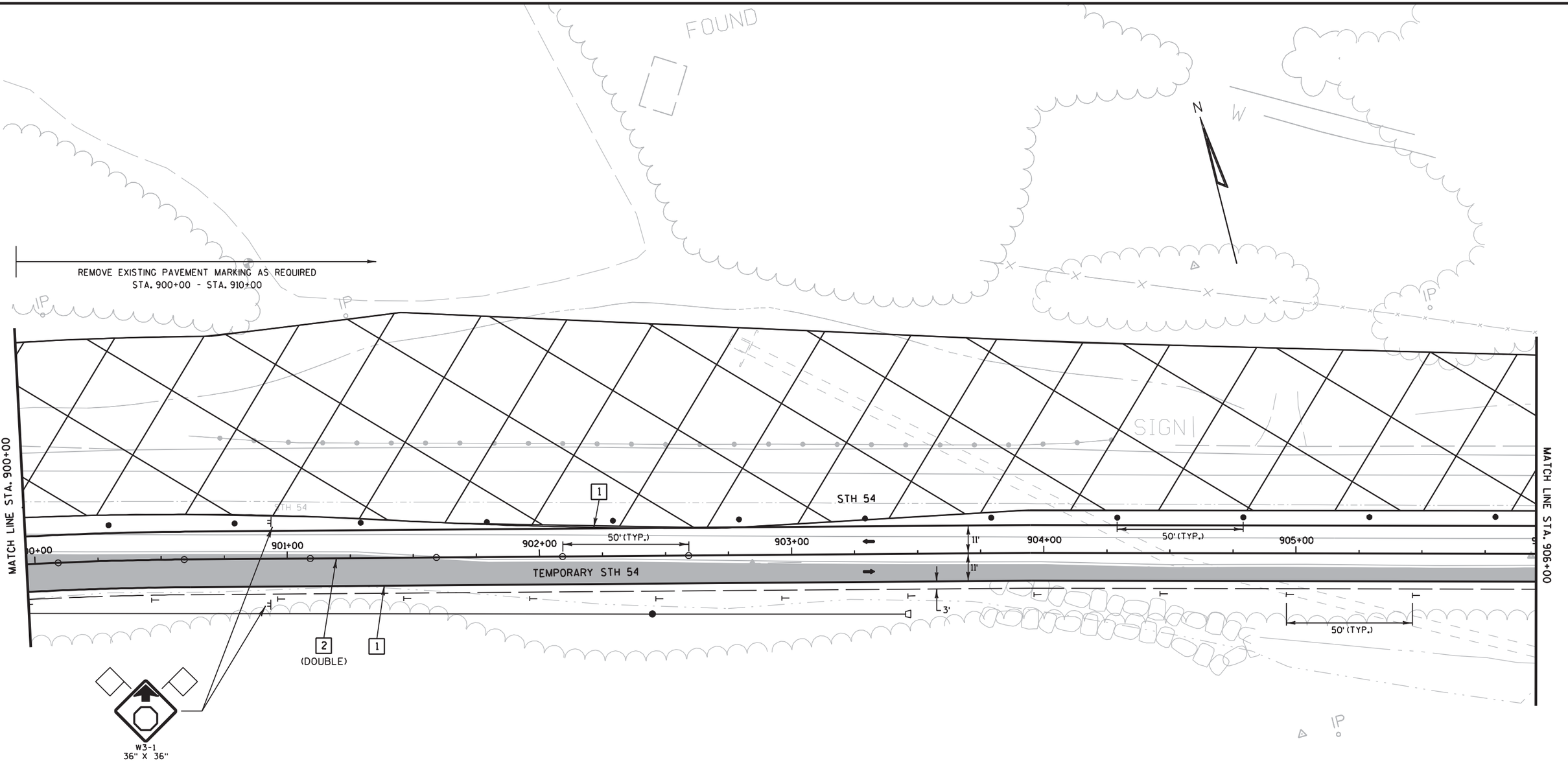


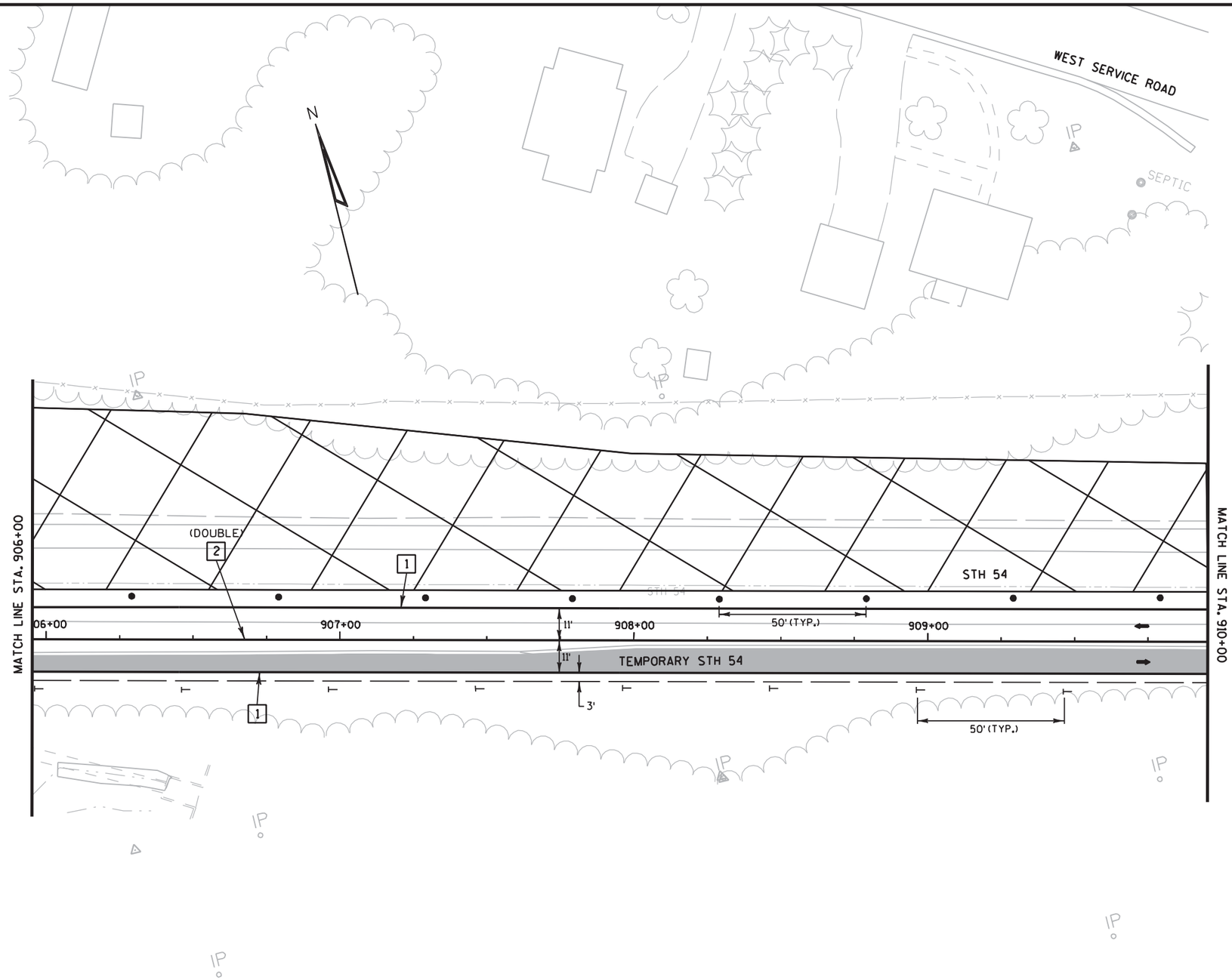
LEGEND

1 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (WHITE)

2 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (YELLOW)

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CONSTRUCTION STAGING - STAGE 2	SHEET 119	E

2

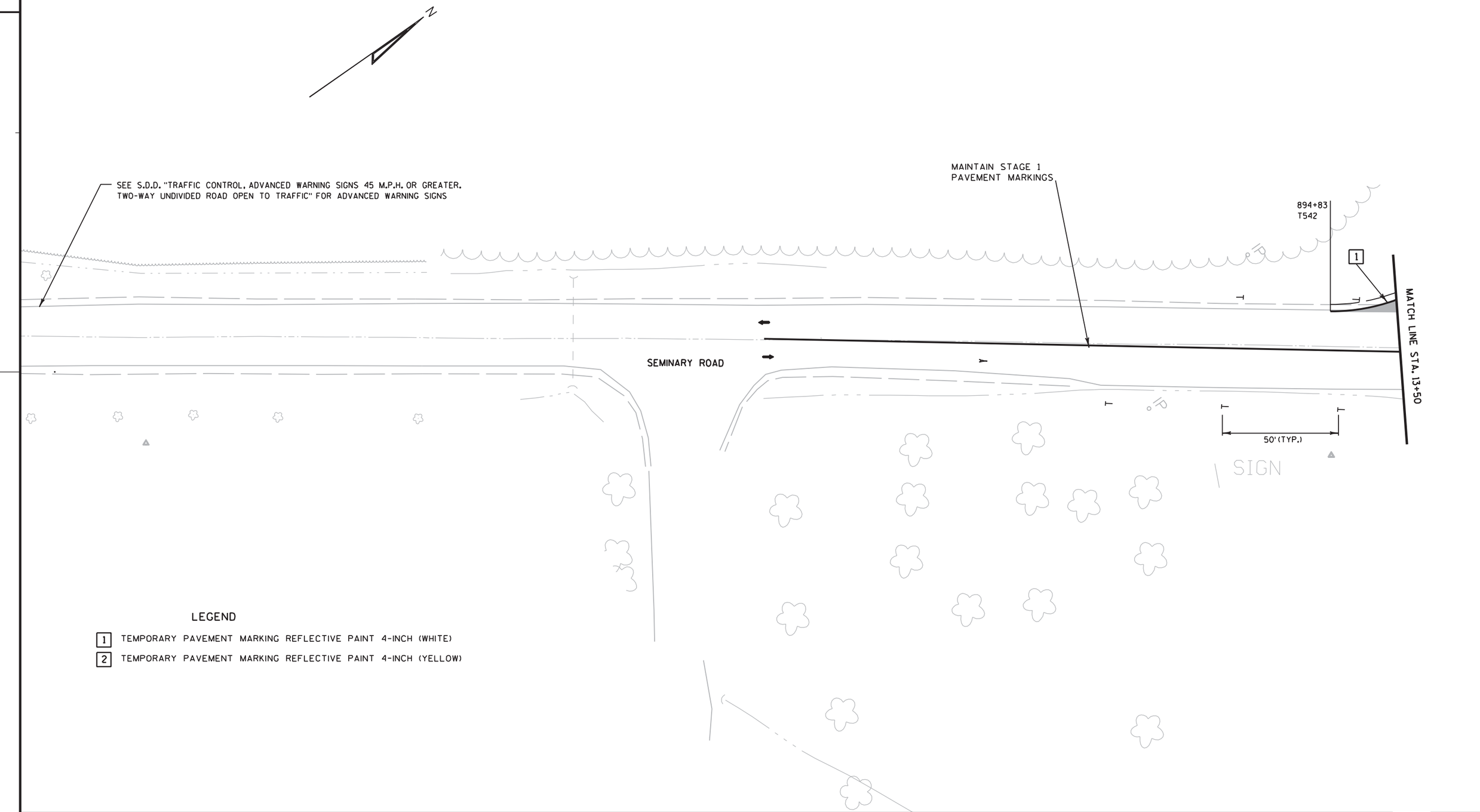


LEGEND

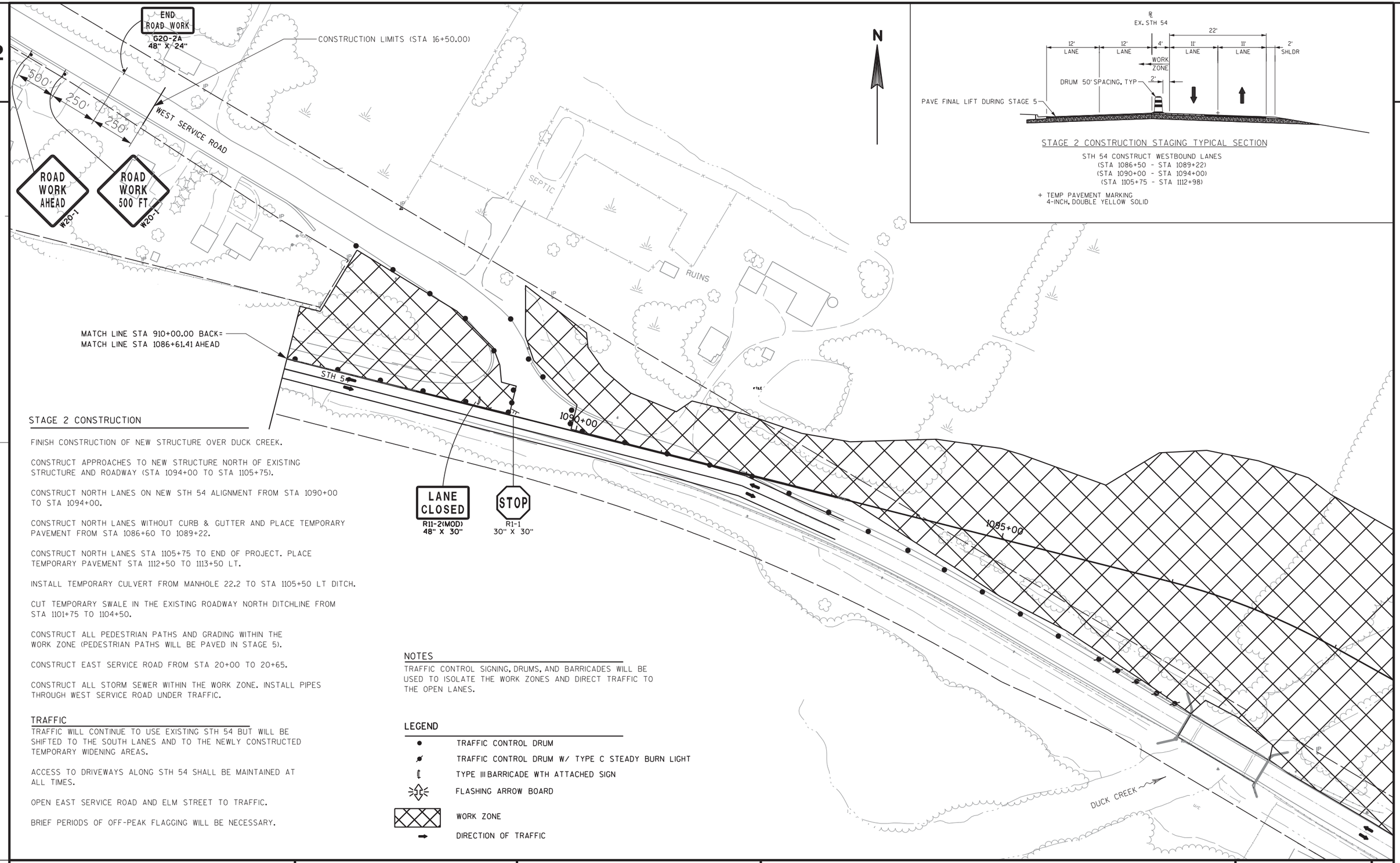
1 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (WHITE)

2 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (YELLOW)

2



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - STAGE 2	SHEET 121	E



STAGE 2 CONSTRUCTION STAGING TYPICAL SECTION

STH 54 CONSTRUCT WESTBOUND LANES
(STA 1086+50 - STA 1089+22)
(STA 1090+00 - STA 1094+00)
(STA 1105+75 - STA 1112+98)

+ TEMP PAVEMENT MARKING
4-INCH, DOUBLE YELLOW SOLID

STAGE 2 CONSTRUCTION

FINISH CONSTRUCTION OF NEW STRUCTURE OVER DUCK CREEK.

CONSTRUCT APPROACHES TO NEW STRUCTURE NORTH OF EXISTING STRUCTURE AND ROADWAY (STA 1094+00 TO STA 1105+75).

CONSTRUCT NORTH LANES ON NEW STH 54 ALIGNMENT FROM STA 1090+00 TO STA 1094+00.

CONSTRUCT NORTH LANES WITHOUT CURB & GUTTER AND PLACE TEMPORARY PAVEMENT FROM STA 1086+60 TO 1089+22.

CONSTRUCT NORTH LANES STA 1105+75 TO END OF PROJECT. PLACE TEMPORARY PAVEMENT STA 1112+50 TO 1113+50 LT.

INSTALL TEMPORARY CULVERT FROM MANHOLE 22.2 TO STA 1105+50 LT DITCH.

CUT TEMPORARY SWALE IN THE EXISTING ROADWAY NORTH DITCHLINE FROM STA 1101+75 TO 1104+50.

CONSTRUCT ALL PEDESTRIAN PATHS AND GRADING WITHIN THE WORK ZONE (PEDESTRIAN PATHS WILL BE PAVED IN STAGE 5).

CONSTRUCT EAST SERVICE ROAD FROM STA 20+00 TO 20+65.

CONSTRUCT ALL STORM SEWER WITHIN THE WORK ZONE. INSTALL PIPES THROUGH WEST SERVICE ROAD UNDER TRAFFIC.

TRAFFIC

TRAFFIC WILL CONTINUE TO USE EXISTING STH 54 BUT WILL BE SHIFTED TO THE SOUTH LANES AND TO THE NEWLY CONSTRUCTED TEMPORARY WIDENING AREAS.

ACCESS TO DRIVEWAYS ALONG STH 54 SHALL BE MAINTAINED AT ALL TIMES.

OPEN EAST SERVICE ROAD AND ELM STREET TO TRAFFIC.

BRIEF PERIODS OF OFF-PEAK FLAGGING WILL BE NECESSARY.

NOTES

TRAFFIC CONTROL SIGNING, DRUMS, AND BARRICADES WILL BE USED TO ISOLATE THE WORK ZONES AND DIRECT TRAFFIC TO THE OPEN LANES.

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM W/ TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WTH ATTACHED SIGN
- FLASHING ARROW BOARD
- WORK ZONE
- DIRECTION OF TRAFFIC

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CONSTRUCTION STAGING - STAGE 2	SHEET 122	E

2

STAGE 2 CONSTRUCTION

FINISH CONSTRUCTION OF NEW STRUCTURE OVER DUCK CREEK.

CONSTRUCT APPROACHES TO NEW STRUCTURE NORTH OF EXISTING STRUCTURE AND ROADWAY (STA 1094+00 TO STA 1105+75).

CONSTRUCT NORTH LANES ON NEW STH 54 ALIGNMENT FROM STA 1090+00 TO STA 1094+00.

CONSTRUCT NORTH LANES WITHOUT CURB & GUTTER AND PLACE TEMPORARY PAVEMENT FROM STA 1086+60 TO 1089+22.

CONSTRUCT NORTH LANES STA 1105+75 TO END OF PROJECT. PLACE TEMPORARY PAVEMENT STA 1112+50 TO 1113+50 LT.

INSTALL TEMPORARY CULVERT FROM MANHOLE 22.2 TO STA 1105+50 LT DITCH.

CUT TEMPORARY SWALE IN THE EXISTING ROADWAY NORTH DITCHLINE FROM STA 1101+75 TO 1104+50.

CONSTRUCT ALL PEDESTRIAN PATHS AND GRADING WITHIN THE WORK ZONE (PEDESTRIAN PATHS WILL BE PAVED IN STAGE 5).

CONSTRUCT EAST SERVICE ROAD FROM STA 20+00 TO 20+65.

CONSTRUCT ALL STORM SEWER WITHIN THE WORK ZONE. INSTALL PIPES THROUGH WEST SERVICE ROAD UNDER TRAFFIC.

TRAFFIC

TRAFFIC WILL CONTINUE TO USE EXISTING STH 54 BUT WILL BE SHIFTED TO THE SOUTH LANES AND TO THE NEWLY CONSTRUCTED TEMPORARY WIDENING AREAS.

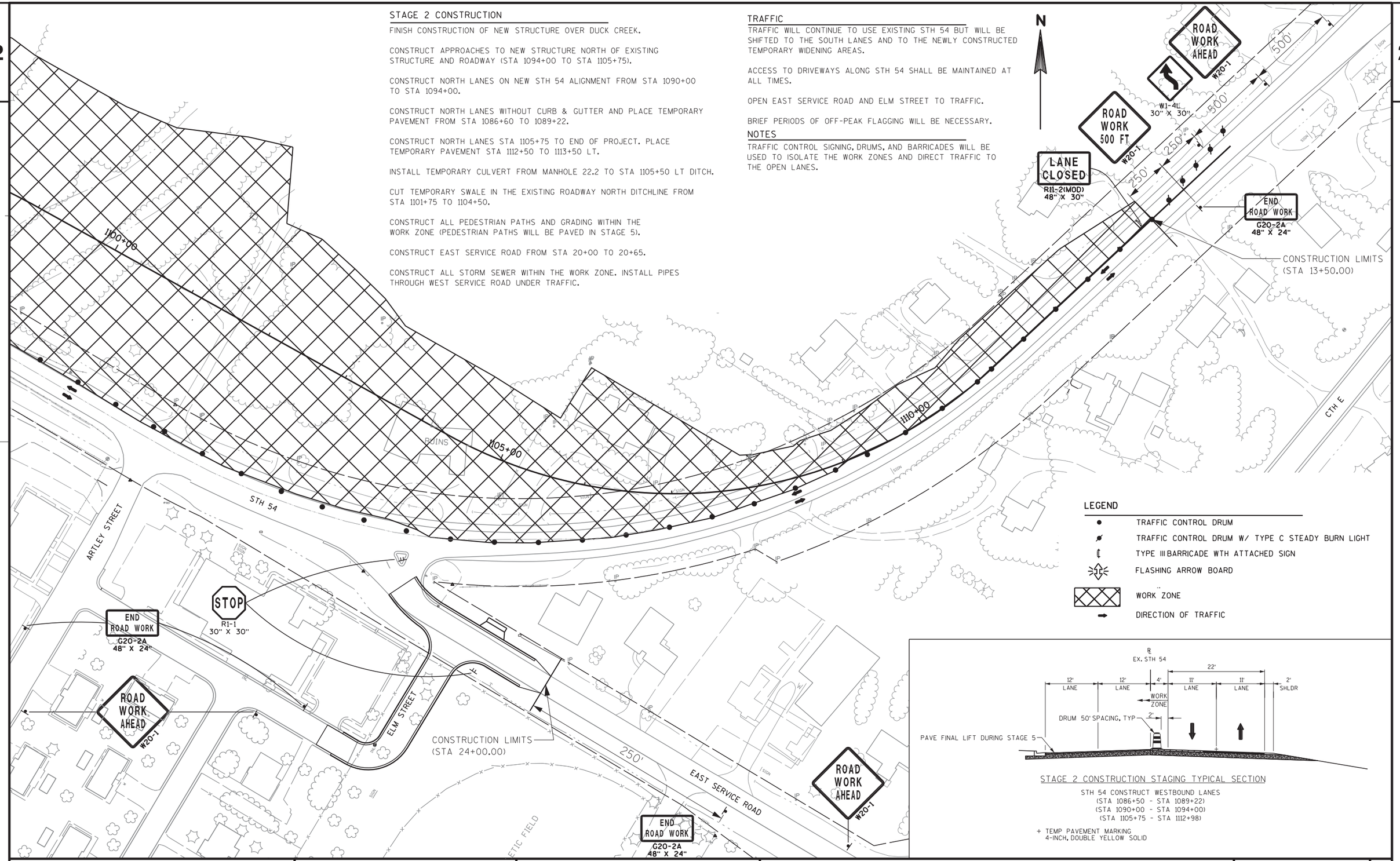
ACCESS TO DRIVEWAYS ALONG STH 54 SHALL BE MAINTAINED AT ALL TIMES.

OPEN EAST SERVICE ROAD AND ELM STREET TO TRAFFIC.

BRIEF PERIODS OF OFF-PEAK FLAGGING WILL BE NECESSARY.

NOTES

TRAFFIC CONTROL SIGNING, DRUMS, AND BARRICADES WILL BE USED TO ISOLATE THE WORK ZONES AND DIRECT TRAFFIC TO THE OPEN LANES.



LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM W/ TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WTH ATTACHED SIGN
- FLASHING ARROW BOARD
- WORK ZONE
- DIRECTION OF TRAFFIC

STAGE 2 CONSTRUCTION STAGING TYPICAL SECTION

STH 54 CONSTRUCT WESTBOUND LANES
(STA 1086+50 - STA 1089+22)
(STA 1090+00 - STA 1094+00)
(STA 1105+75 - STA 1112+98)

+ TEMP PAVEMENT MARKING
4-INCH, DOUBLE YELLOW SOLID

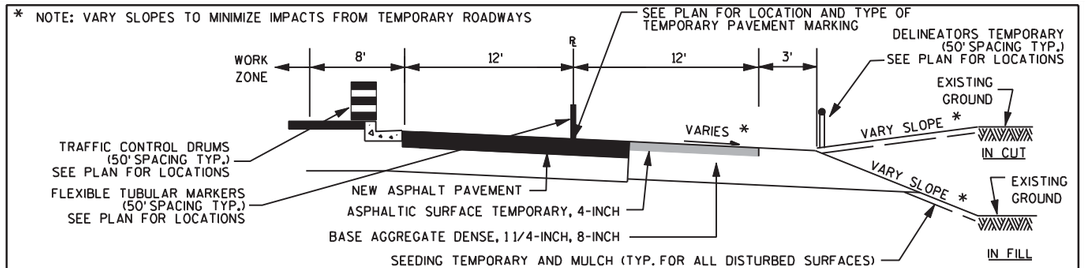
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CONSTRUCTION STAGING - STAGE 2	SHEET 123	E

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- DIRECTION OF TRAFFIC
- MB — PORTABLE CHANGEABLE MESSAGE BOARD
- FLAGS (16" X 16")
- TEMPORARY PAVEMENT
- FLEXIBLE TUBULAR MARKER
- DELINEATORS TEMPORARY (WHITE)

N

* NOTE: VARY SLOPES TO MINIMIZE IMPACTS FROM TEMPORARY ROADWAYS



PROPOSED TYPICAL SECTON
STH 54 TEMPORARY ROADWAY
WIDENING OFF NEW PAVEMENT
STA 882+50 - STA 910+00

WIDENING TO THE RIGHT SHOWN. MIRROR DETAILS FOR WIDENING TO THE LEFT SIDE.

SEE STAGE 3 DETAIL SHEETS FOR TRAFFIC CONTROL DEVICES ALONG STH 54.

SEE STAGE 3 DETAIL SHEETS FOR TRAFFIC CONTROL DEVICES ALONG SEMINARY ROAD

SEMINARY ROAD

W. SERVICE ROAD

STH 54

MATCH LINE STA. 910+00

SEE S.D.D. "BARRICADES AND SIGNS FOR MAINLINE CLOSURES, DETAIL C "MAINLINE CLOSURE, NO POSTED DETOUR.

STAGE 3 CONSTRUCTION

SOUTH SIDE OF STH 54 FROM STA 887+00 TO STA 910+00.

CURB AND GUTTER ON THE SOUTH SIDE OF THE MEDIAN FROM STA 896+70 TO STA 899+70

SOUTH LEG OF SEMINARY ROAD.

REMOVAL OF TEMPORARY WIDENING TO THE SOUTH OF STH 54.

TRAFFIC

STH 54 TRAFFIC WILL USE THE NEWLY CONSTRUCTED WESTBOUND LANES AND TEMPORARY WIDENING TO THE NORTH

THE SOUTH LEG OF SEMINARY ROAD WILL BE CLOSED THE NEWLY CONSTRUCTED NORTH LEG OF SEMINARY ROAD WILL BE OPEN TO TRAFFIC.

NO LEFT TURNS OR THROUGH TRAFFIC FROM SEMINARY ROAD WILL BE ALLOWED DURING THIS STAGE. (RIGHT-IN, RIGHT-OUT ONLY ON THE NORTH LEG OF SEMINARY ROAD) ALL-WAY STOP IN PLACE

THE DRIVEWAY AT STA 898+50, LEFT WILL BE CLOSED WITH ACCESS PROVIDED BY THE WEST SERVICE ROAD TO THE NORTH.

2

N

LEGEND

1 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (WHITE)

2 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (YELLOW)

REMOVE EXISTING PAVEMENT MARKING AS REQUIRED
STA. 882+50 - STA. 886+00

SEE S.D.D. "TRAFFIC CONTROL, TEMPORARY BYPASS ROADWAY" FOR ADVANCED WARNING SIGNS

PLACE DRUMS AT 100 FT SPACING WITH TYPE C (STEADY-BURN) LIGHTS ON BOTH SIDES FROM STA. 877+50 TO STA. 882+50

W01-4L

45 M.P.H.

W013-1
18" X 18"

50' (TYP.)

3'

12'

12'

TEMPORARY STH 54

885+00

886+00

887+00

888+00

883+00

884+00

2 (DOUBLE)

STH 54

MATCH LINE STA. 888+50

ROAD CLOSED

R11-2
48" X 30"

W01-6
48" X 24"

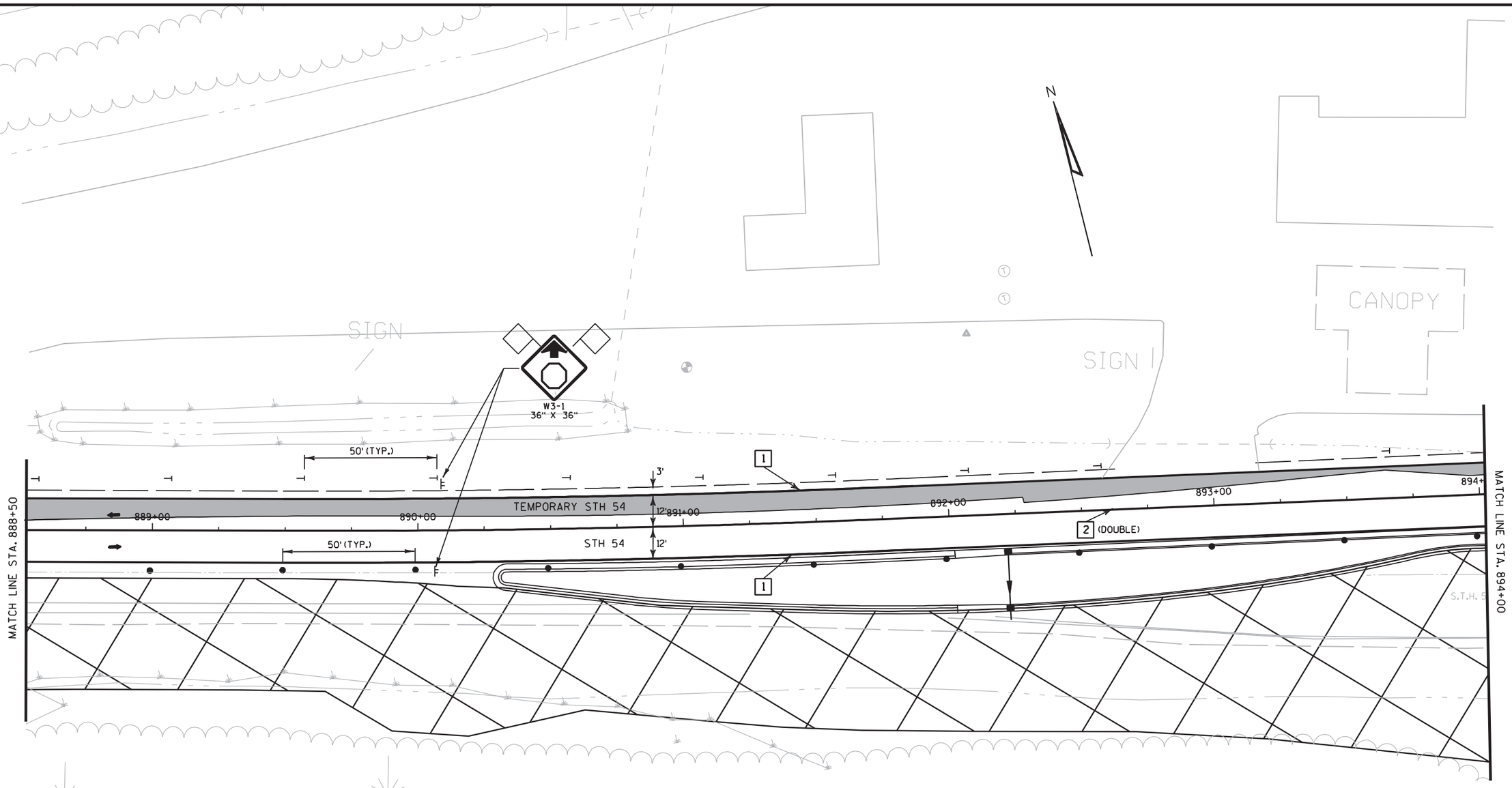
W01-4L

45 M.P.H.

W013-1
18" X 18"

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - STAGE 3	SHEET 125	E

2



LEGEND

1 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (WHITE)

2 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (YELLOW)

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - STAGE 3	SHEET 126	E

2

MATCH LINE STA. 17+00

SEMINARY ROAD

+07

+54

+91

+40

+45

+97

STOP
R1-1
36" X 36"

ONLY
R3-50R
30" X 36"

STOP
R1-1
36" X 36"

R3-2
24" X 24"

STOP
R1-1
36" X 36"

SIGN

50' (TYP.)

10' (TYP.)

1

3

5

5

12'

12'

895+00

896+00

897+00

898+00

899+00

STH 54

50' (TYP.)

50' (TYP.)

50' (TYP.)

3'

2 (DOUBLE)

12'

12'

90

R3-1
24" X 24"

W01-7
48" X 24"

ROAD CLOSED
R11-2
48" X 30"

ROAD CLOSED
R11-2
48" X 30"

W01-4R

45 M.P.H.
W013-1
18" X 18"

MATCH LINE STA. 894+00

MATCH LINE STA. 900+00

N

IP

IP

IP

IP

SIGN

LEGEND

1 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (WHITE)

2 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (YELLOW)

3 TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH

5 TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - STAGE 3	SHEET 127	E

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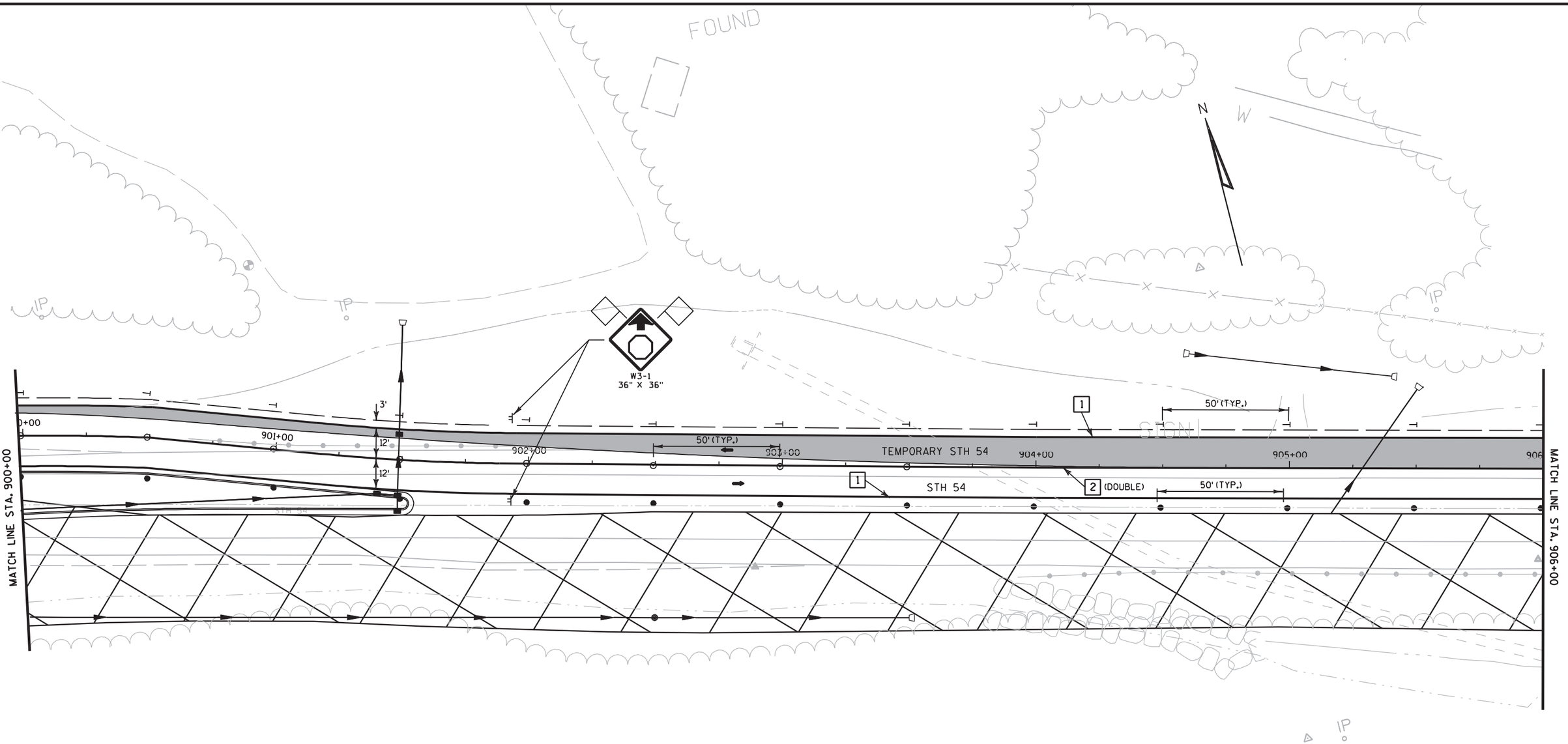
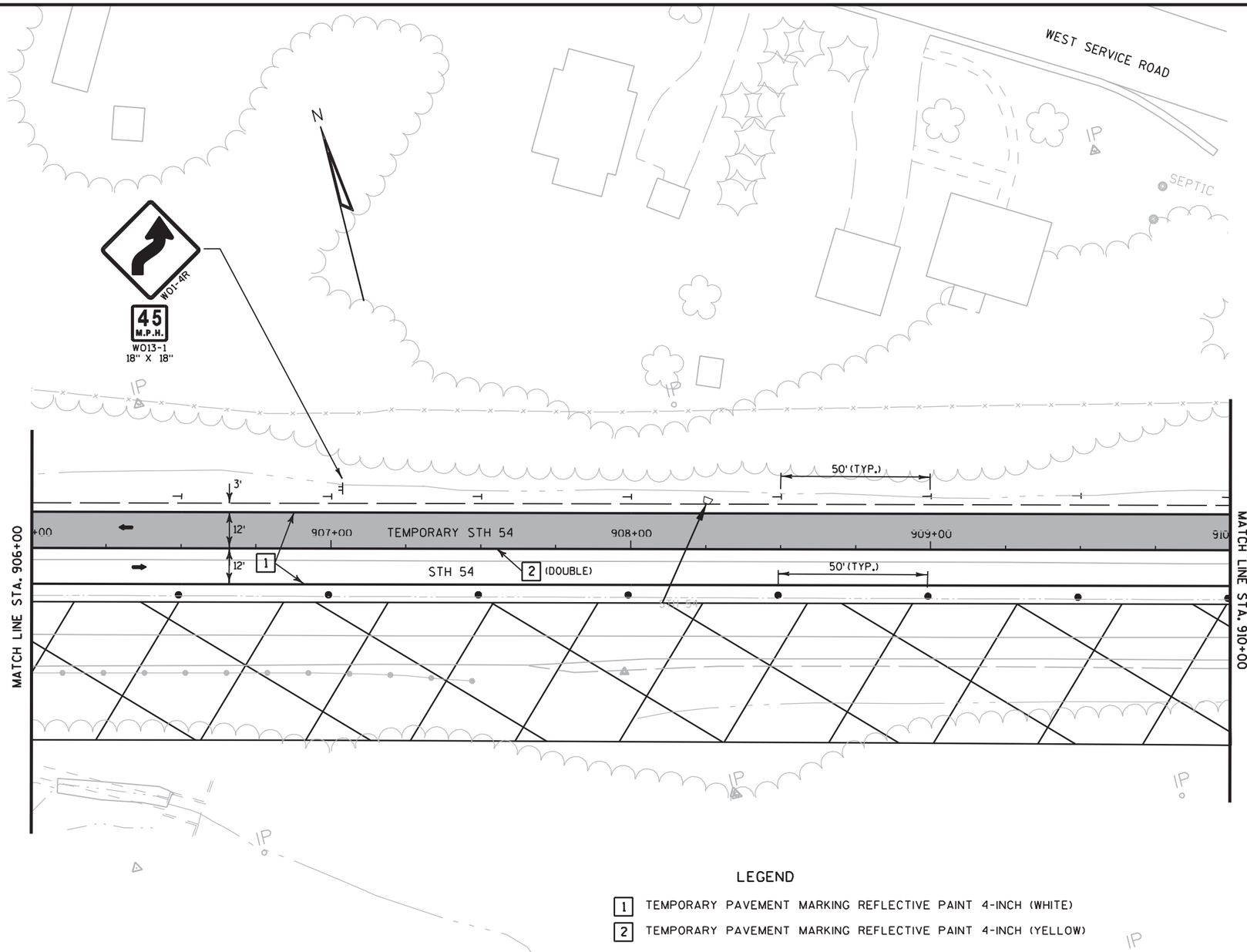


LEGEND

1 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (WHITE)

2 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (YELLOW)

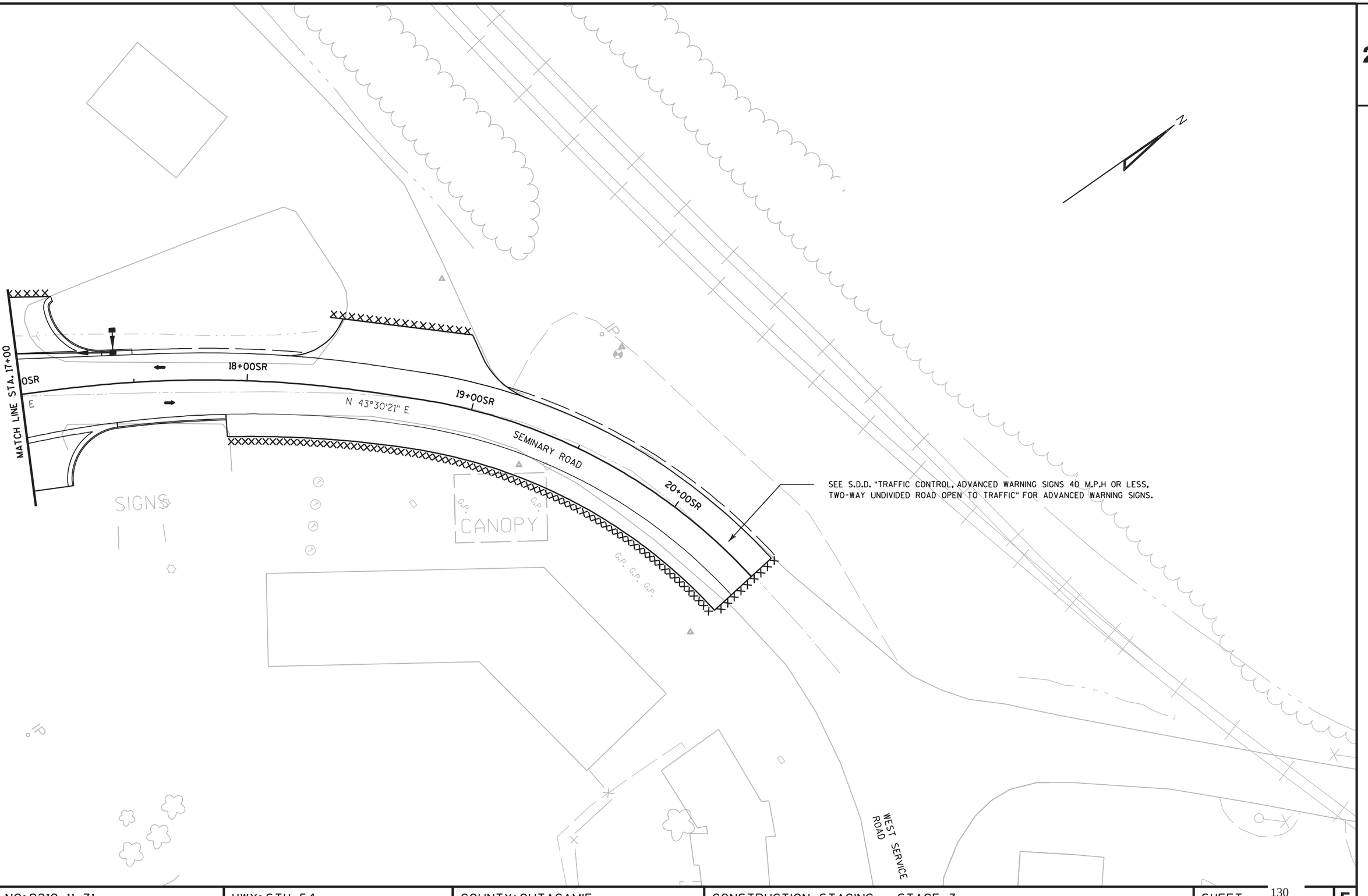


LEGEND

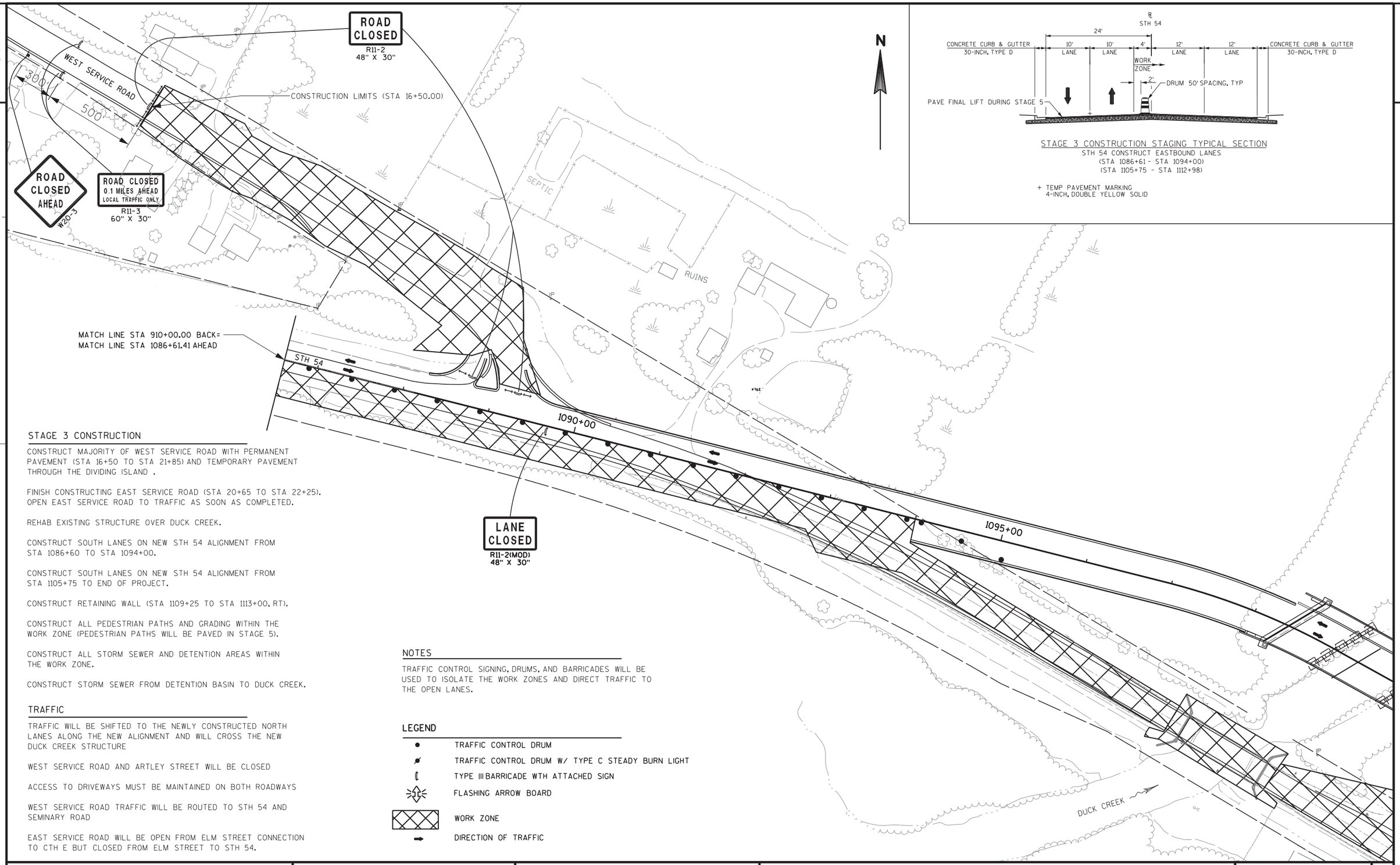
1 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (WHITE)

2 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH (YELLOW)

2



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - STAGE 3	SHEET 130	E



STAGE 3 CONSTRUCTION STAGING TYPICAL SECTION
STH 54 CONSTRUCT EASTBOUND LANES
(STA 1086+61 - STA 1094+00)
(STA 1105+75 - STA 1112+98)

+ TEMP PAVEMENT MARKING
4-INCH, DOUBLE YELLOW SOLID

STAGE 3 CONSTRUCTION

CONSTRUCT MAJORITY OF WEST SERVICE ROAD WITH PERMANENT PAVEMENT (STA 16+50 TO STA 21+85) AND TEMPORARY PAVEMENT THROUGH THE DIVIDING ISLAND .

FINISH CONSTRUCTING EAST SERVICE ROAD (STA 20+65 TO STA 22+25). OPEN EAST SERVICE ROAD TO TRAFFIC AS SOON AS COMPLETED.

REHAB EXISTING STRUCTURE OVER DUCK CREEK.

CONSTRUCT SOUTH LANES ON NEW STH 54 ALIGNMENT FROM STA 1086+60 TO STA 1094+00.

CONSTRUCT SOUTH LANES ON NEW STH 54 ALIGNMENT FROM STA 1105+75 TO END OF PROJECT.

CONSTRUCT RETAINING WALL (STA 1109+25 TO STA 1113+00, RT).

CONSTRUCT ALL PEDESTRIAN PATHS AND GRADING WITHIN THE WORK ZONE (PEDESTRIAN PATHS WILL BE PAVED IN STAGE 5).

CONSTRUCT ALL STORM SEWER AND DETENTION AREAS WITHIN THE WORK ZONE.

CONSTRUCT STORM SEWER FROM DETENTION BASIN TO DUCK CREEK.

TRAFFIC

TRAFFIC WILL BE SHIFTED TO THE NEWLY CONSTRUCTED NORTH LANES ALONG THE NEW ALIGNMENT AND WILL CROSS THE NEW DUCK CREEK STRUCTURE

WEST SERVICE ROAD AND ARTLEY STREET WILL BE CLOSED

ACCESS TO DRIVEWAYS MUST BE MAINTAINED ON BOTH ROADWAYS

WEST SERVICE ROAD TRAFFIC WILL BE ROUTED TO STH 54 AND SEMINARY ROAD

EAST SERVICE ROAD WILL BE OPEN FROM ELM STREET CONNECTION TO CTH E BUT CLOSED FROM ELM STREET TO STH 54.

NOTES

TRAFFIC CONTROL SIGNING, DRUMS, AND BARRICADES WILL BE USED TO ISOLATE THE WORK ZONES AND DIRECT TRAFFIC TO THE OPEN LANES.

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM W/ TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WTH ATTACHED SIGN
- FLASHING ARROW BOARD
- WORK ZONE
- DIRECTION OF TRAFFIC

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CONSTRUCTION STAGING - STAGE 3	SHEET 131	E

2

STAGE 3 CONSTRUCTION

CONSTRUCT MAJORITY OF WEST SERVICE ROAD (STA 16+50 TO STA 21+85).

FINISH CONSTRUCTING EAST SERVICE ROAD (STA 20+65 TO STA 22+25). OPEN EAST SERVICE ROAD TO TRAFFIC AS SOON AS COMPLETED.

REHAB EXISTING STRUCTURE OVER DUCK CREEK.

CONSTRUCT SOUTH LANES ON NEW STH 54 ALIGNMENT FROM STA 1086+60 TO STA 1094+00.

CONSTRUCT SOUTH LANES ON NEW STH 54 ALIGNMENT FROM STA 1105+75 TO END OF PROJECT.

CONSTRUCT RETAINING WALL (STA 1109+25 TO STA 1113+00, RT).

CONSTRUCT ALL PEDESTRIAN PATHS AND GRADING WITHIN THE WORK ZONE (PEDESTRIAN PATHS WILL BE PAVED IN STAGE 5).

CONSTRUCT ALL STORM SEWER AND DETENTION AREAS WITHIN THE WORK ZONE.

CONSTRUCT STORM SEWER FROM DETENTION BASIN TO DUCK CREEK.

TRAFFIC

TRAFFIC WILL BE SHIFTED TO THE NEWLY CONSTRUCTED NORTH LANES ALONG THE NEW ALIGNMENT AND WILL CROSS THE NEW DUCK CREEK STRUCTURE

WEST SERVICE ROAD AND ARTLEY STREET WILL BE CLOSED

ACCESS TO DRIVEWAYS MUST BE MAINTAINED ON BOTH ROADWAYS

WEST SERVICE ROAD TRAFFIC WILL BE ROUTED TO STH 54 AND SEMINARY ROAD

EAST SERVICE ROAD WILL BE OPEN FROM ELM STREET CONNECTION TO CTH E BUT CLOSED FROM ELM STREET TO STH 54.

NOTES

TRAFFIC CONTROL SIGNING, DRUMS, AND BARRICADES WILL BE USED TO ISOLATE THE WORK ZONES AND DIRECT TRAFFIC TO THE OPEN LANES.

N

1100+00

ROAD CLOSED
R11-2
48" X 30"

RUINS

1105+00

STH 54

ROAD WORK AHEAD
W20-1

W1-4R
30" X 30"

ROAD WORK 500 FT
W20-1

500'

500'

250'

250'

END ROAD WORK
G20-2A
48" X 24"

CONSTRUCTION LIMITS
(STA 13+50.00)

1110+00

CTH E

ROAD CLOSED
0.1 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED AHEAD
W20-3

END ROAD WORK
G20-2A
48" X 24"

ARTLEY STREET

ROAD WORK AHEAD
W20-1

30+00ES

ELM STREET

32+00ES

24+00UE

CONSTRUCTION LIMITS
(STA 24+00.00)

250'

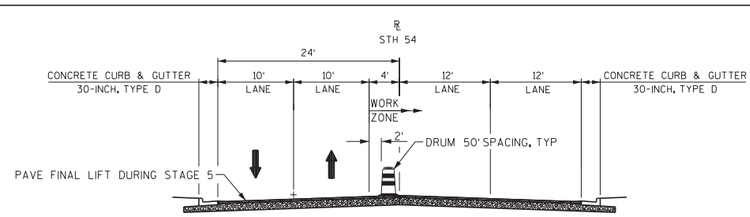
EAST SERVICE ROAD

ETIC FIELD

END ROAD WORK
G20-2A
48" X 24"

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM W/ TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WTH ATTACHED SIGN
- FLASHING ARROW BOARD
- WORK ZONE
- DIRECTION OF TRAFFIC



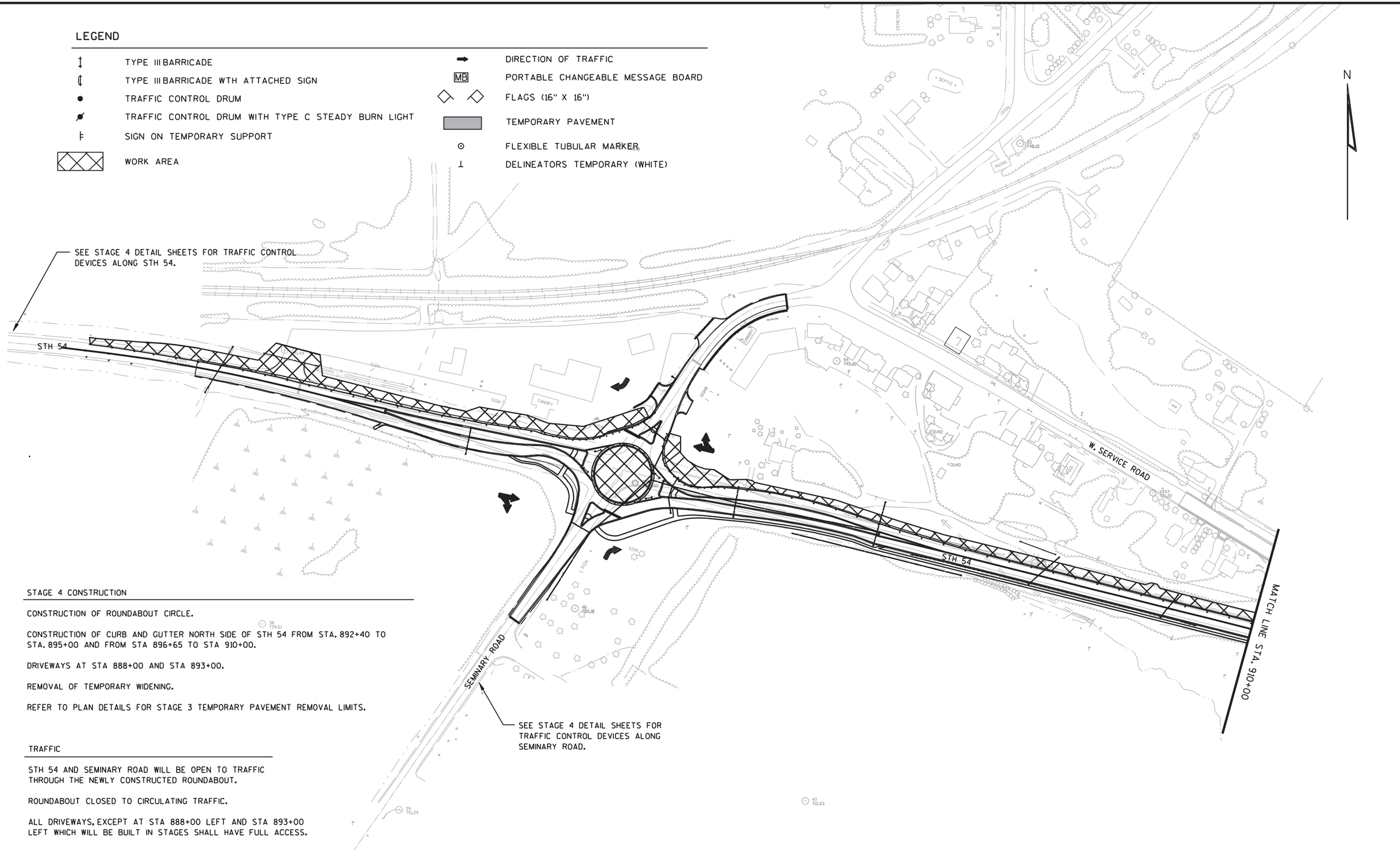
STAGE 3 CONSTRUCTION STAGING TYPICAL SECTION
STH 54 CONSTRUCT EASTBOUND LANES
(STA 1086+61 - STA 1094+00)
(STA 1105+75 - STA 1112+98)

+ TEMP PAVEMENT MARKING
4-INCH, DOUBLE YELLOW SOLID

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CONSTRUCTION STAGING - STAGE 3	SHEET 132	E

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE BOARD (MB)
- FLAGS (16" X 16")
- TEMPORARY PAVEMENT
- FLEXIBLE TUBULAR MARKER
- DELINEATORS TEMPORARY (WHITE)



STAGE 4 CONSTRUCTION

CONSTRUCTION OF ROUNDABOUT CIRCLE.

CONSTRUCTION OF CURB AND GUTTER NORTH SIDE OF STH 54 FROM STA. 892+40 TO STA. 895+00 AND FROM STA 896+65 TO STA 910+00.

DRIVEWAYS AT STA 888+00 AND STA 893+00.

REMOVAL OF TEMPORARY WIDENING.

REFER TO PLAN DETAILS FOR STAGE 3 TEMPORARY PAVEMENT REMOVAL LIMITS.

TRAFFIC

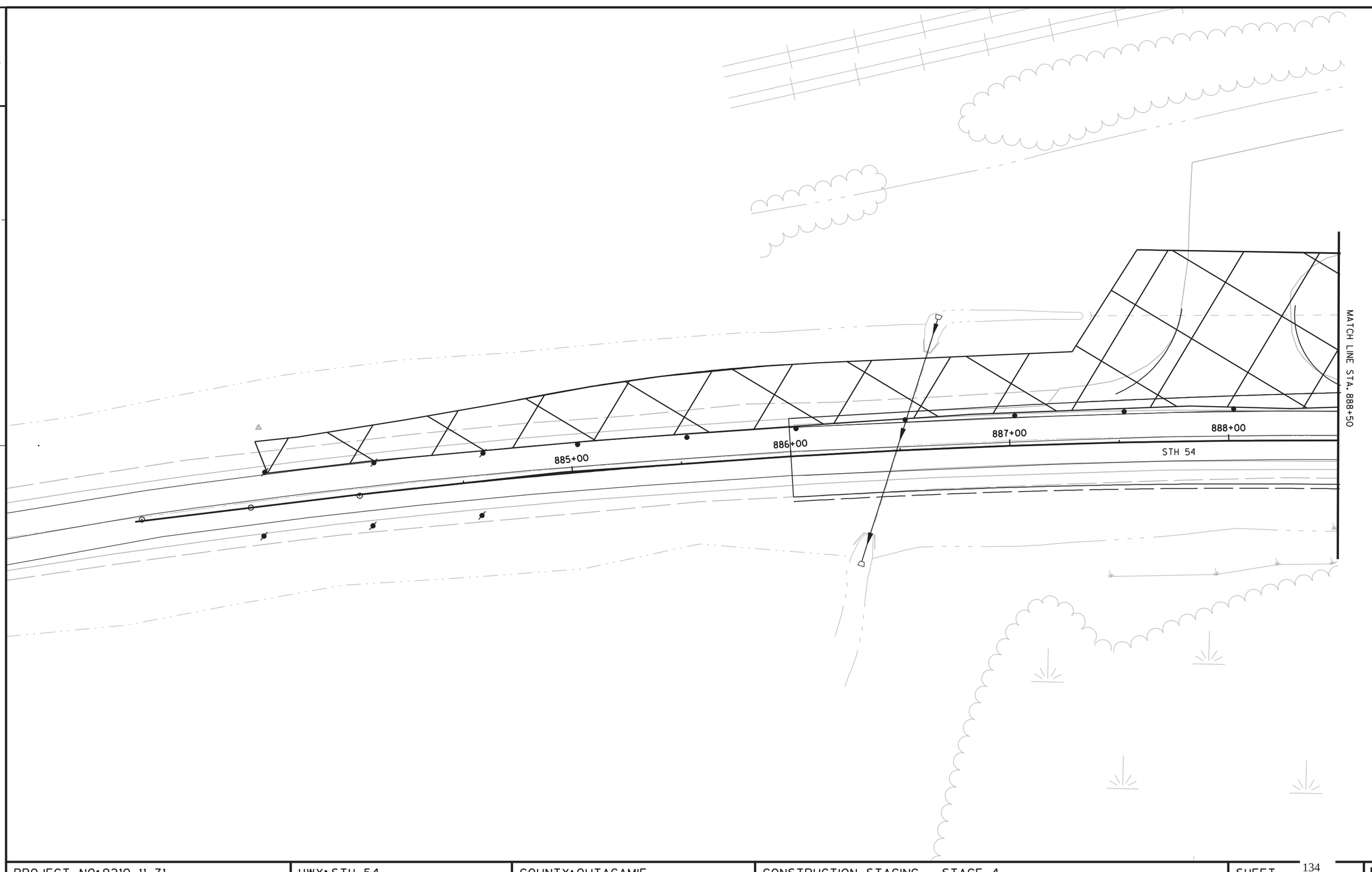
STH 54 AND SEMINARY ROAD WILL BE OPEN TO TRAFFIC THROUGH THE NEWLY CONSTRUCTED ROUNDABOUT.

ROUNDABOUT CLOSED TO CIRCULATING TRAFFIC.

ALL DRIVEWAYS, EXCEPT AT STA 888+00 LEFT AND STA 893+00 LEFT WHICH WILL BE BUILT IN STAGES SHALL HAVE FULL ACCESS.

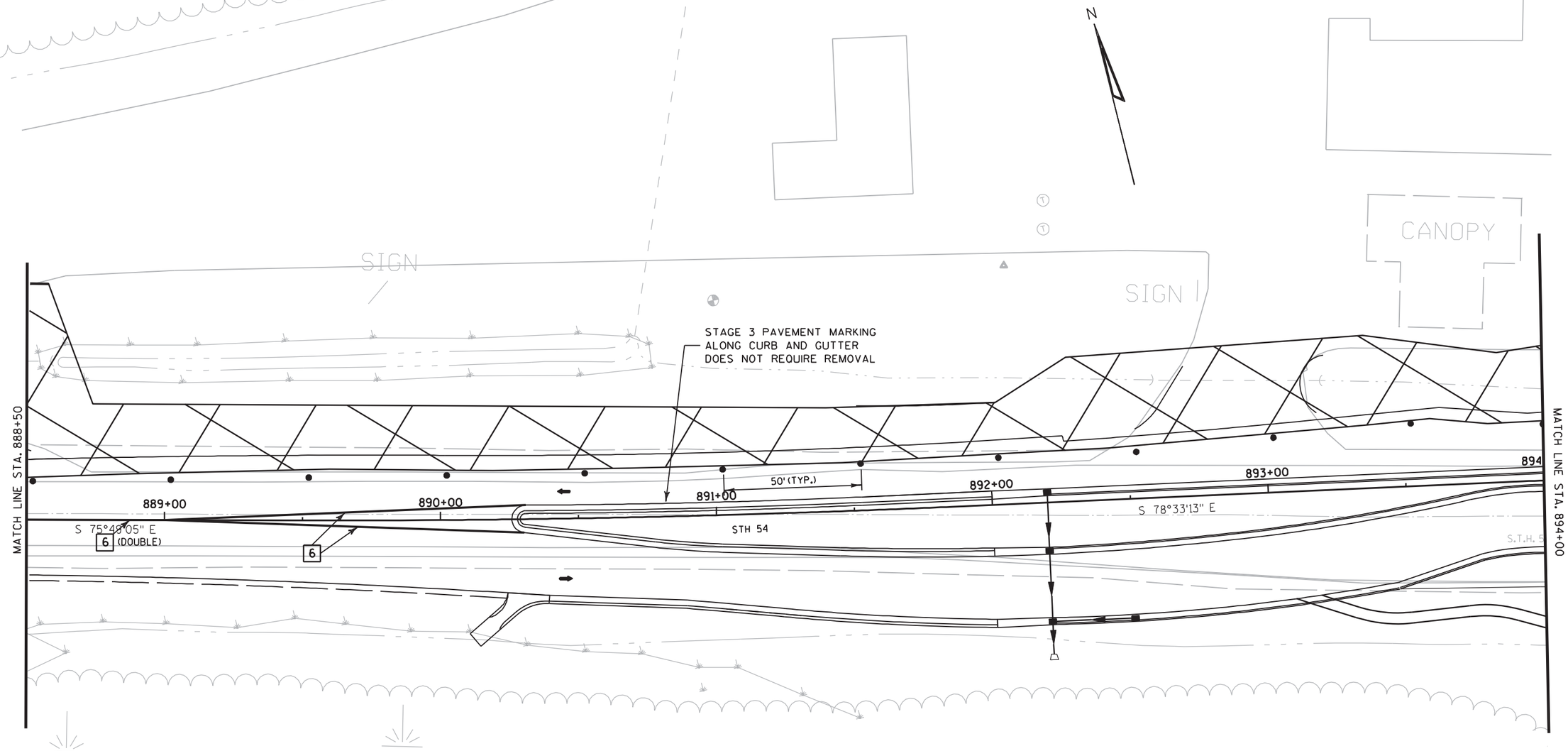
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - STAGE 4	SHEET 133	E

2



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - STAGE 4	SHEET 134	E

2



LEGEND

6 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - STAGE 4	SHEET 135	E

2

MATCH LINE STA. 17+00

R1-2
36" X 31"

ONE WAY
R6-2R
24" X 30"
SEE PERMANENT
SIGNING PLAN

R1-2
36" X 31"

STAGE 3 PAVEMENT MARKING
ALONG CURB AND GUTTER
DOES NOT REQUIRE REMOVAL

17+00

N 27°34'40" E

SEMINARY ROAD

16+00SR

4+00CL

R3-2
24" X 24"

STAGE 3 PAVEMENT MARKING
ALONG CURB AND GUTTER
DOES NOT REQUIRE REMOVAL

MATCH LINE STA. 894+00

15' (TYP.)

5+00CL

6

ROAD CLOSED
R11-2
48" X 30"

895+00

15+00SR

N 44°15'47" W

S 66°38'21" E

N 39°54'50" E

896+00

S 66°38'21" E

3+00CL

897+00

STH 54

15' (TYP.)

898+00

S 89°03'58" E

899+00

900

50' (TYP.)

MATCH LINE STA. 900+00

1+00CL

14+00SR

15' (TYP.)

2+00CL

4

R3-2
24" X 24"

R1-2
36" X 31"

ONE WAY
R6-2R
24" X 30"
SEE PERMANENT
SIGNING PLAN

MATCH LINE STA. 13+50

ROAD CLOSED
R11-2
48" X 30"

R1-2
36" X 31"

TO TRAFFIC FROM LEFT
R15-4
24" X 15"
SEE PERMANENT
SIGNING PLAN

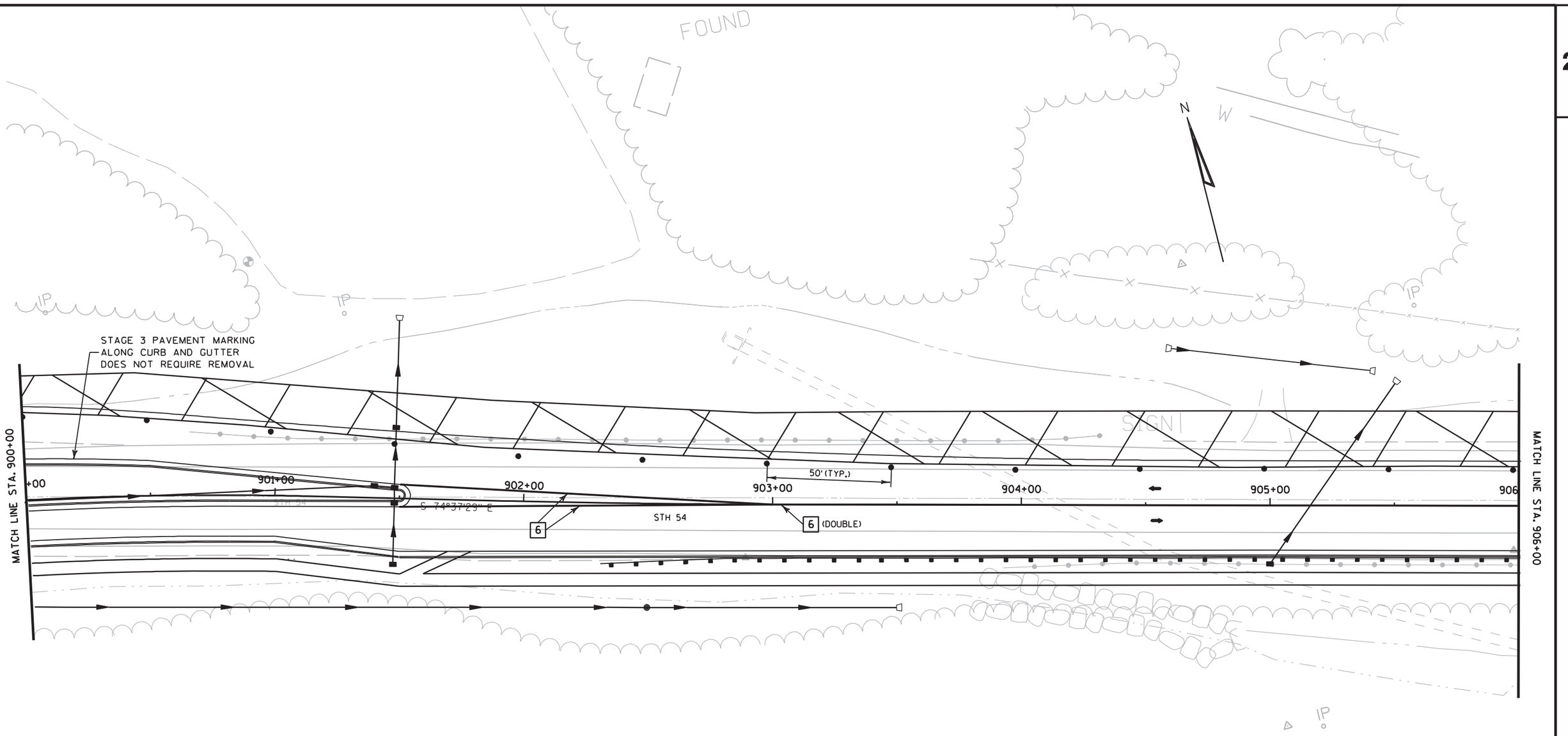
LEGEND

4 TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH (WHITE)(2' SEGMENT, 2' GAP)

6 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - STAGE 4	SHEET 136	E

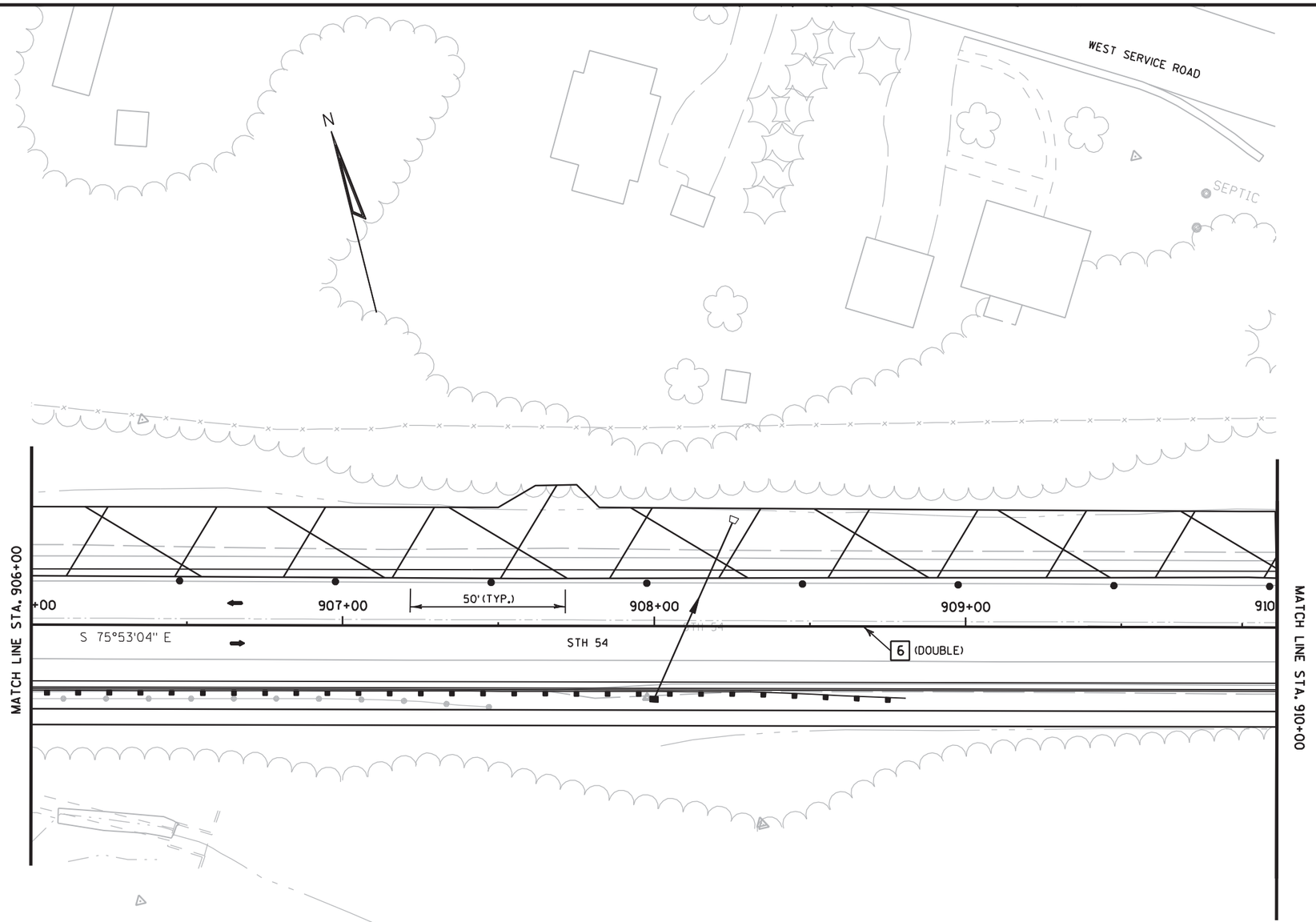
2



LEGEND

6 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

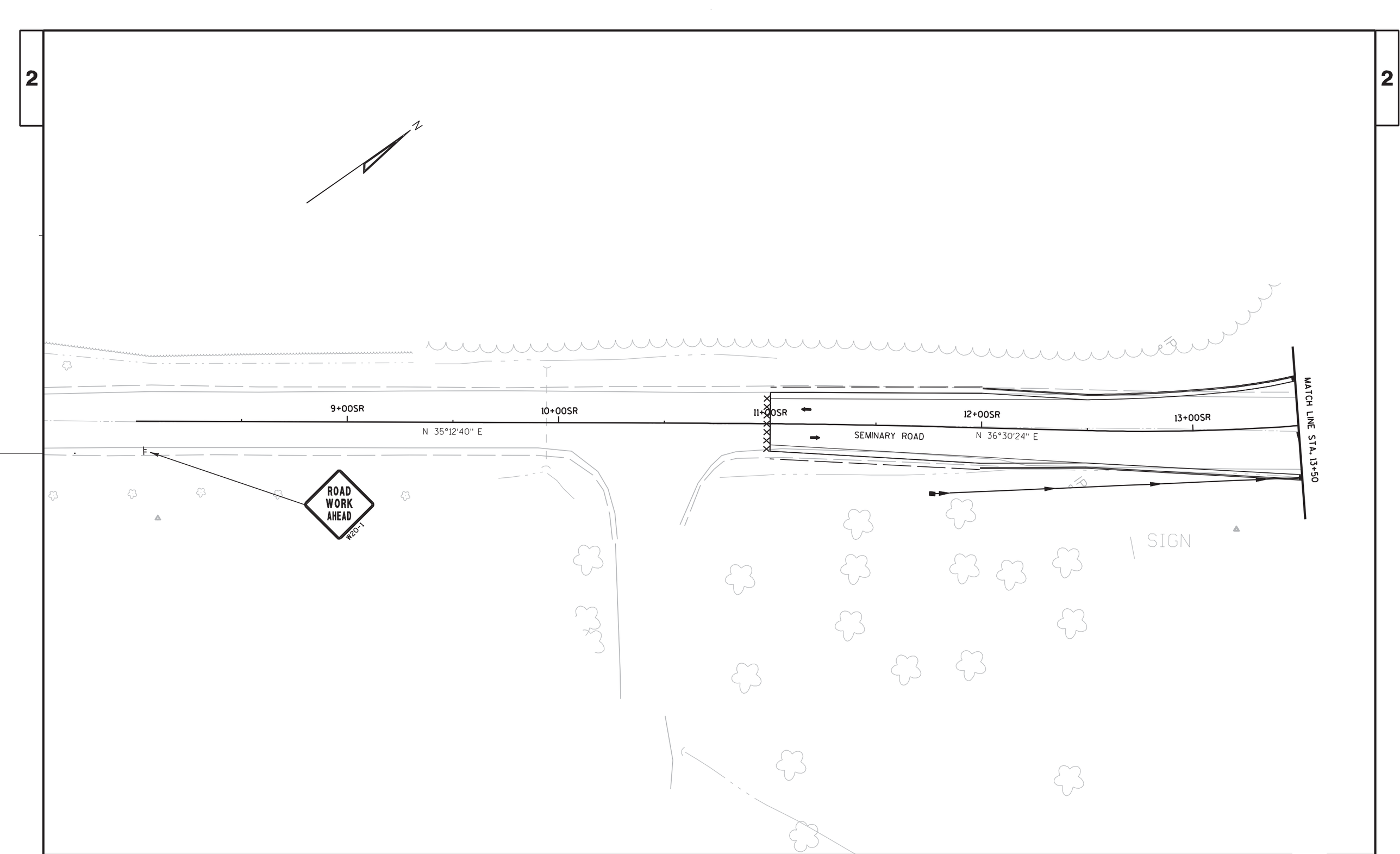
2



LEGEND

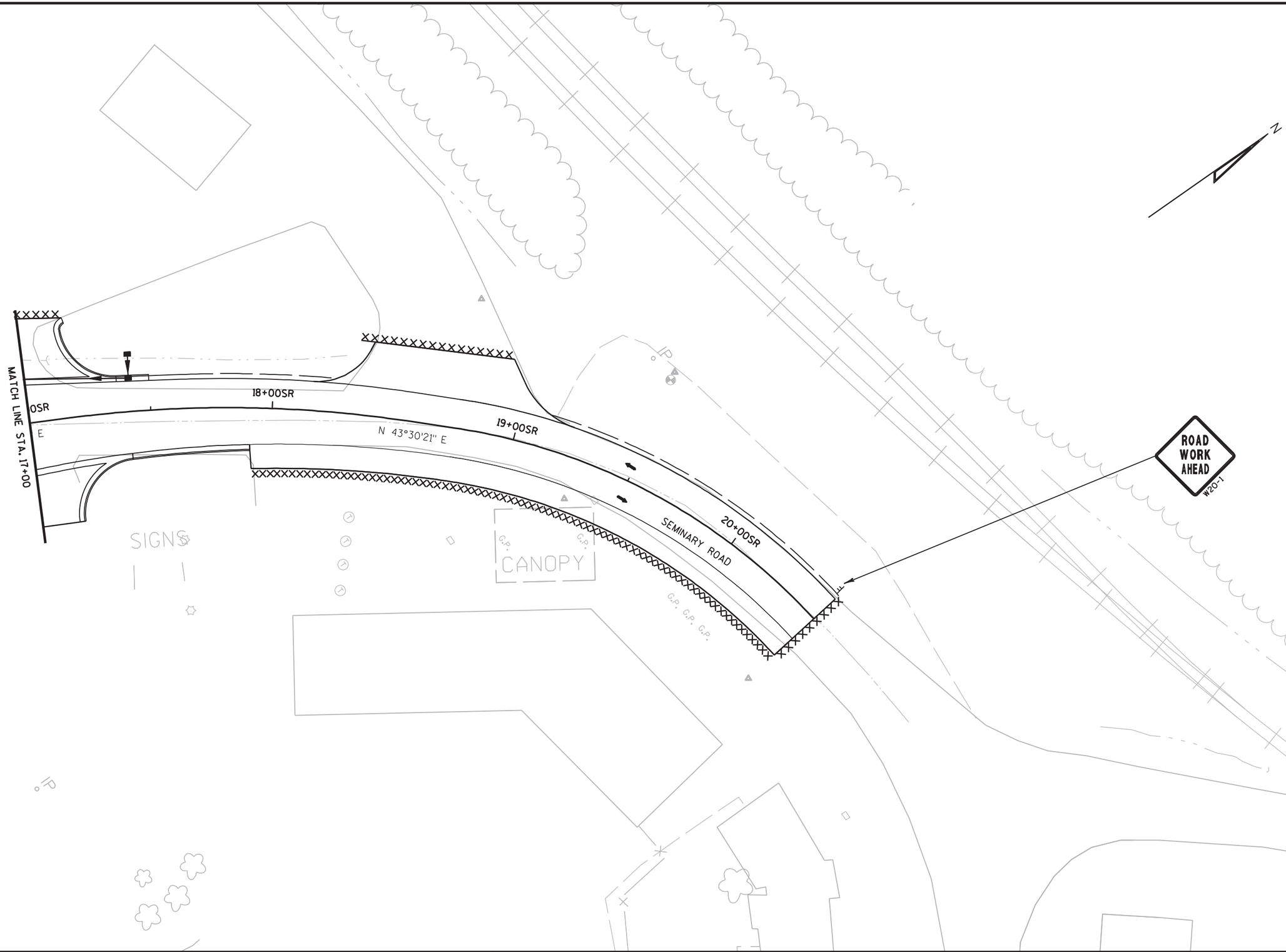
6 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

2

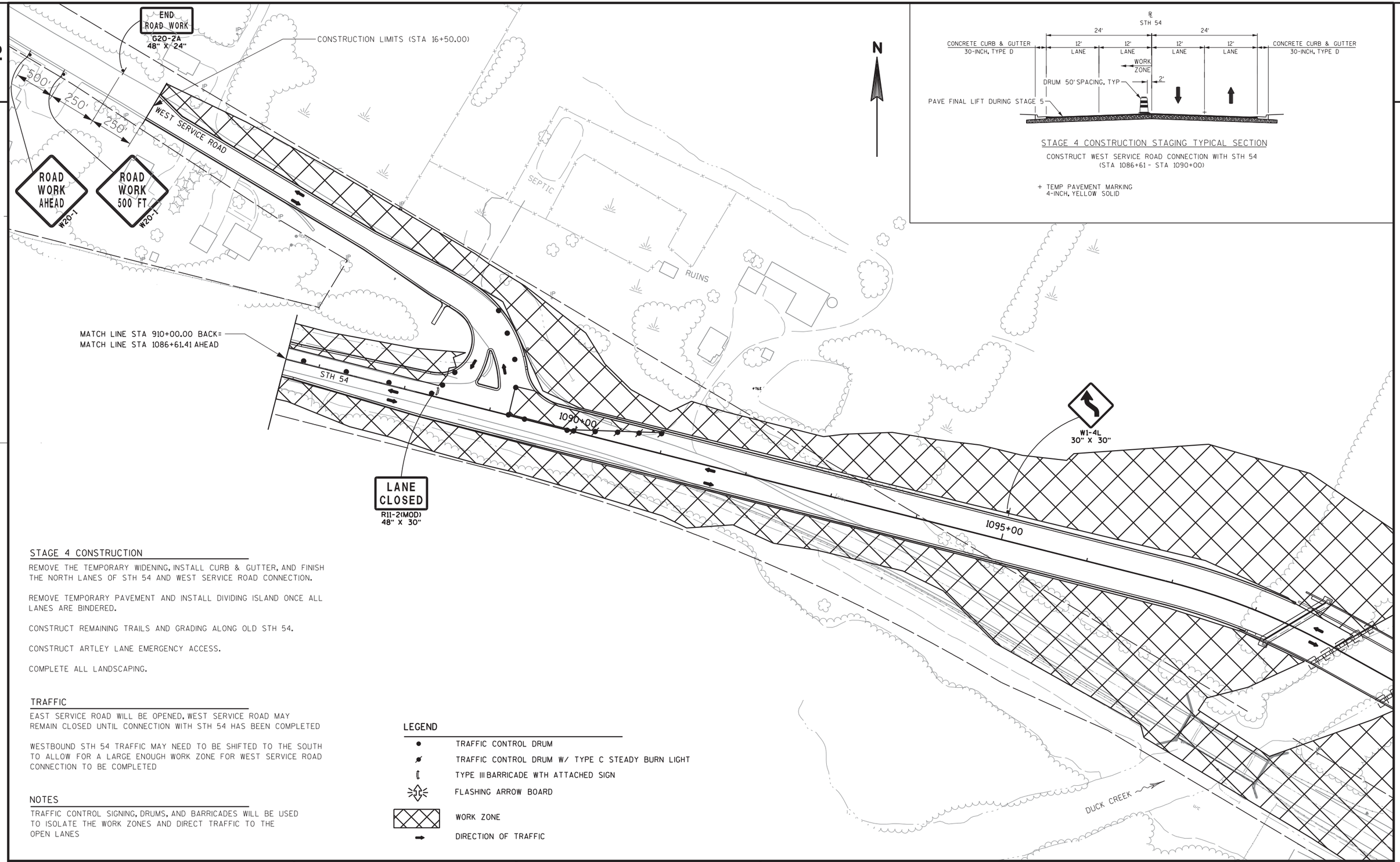


PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - STAGE 4	SHEET 139	E

2



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - STAGE 4	SHEET 140	E



STAGE 4 CONSTRUCTION STAGING TYPICAL SECTION

CONSTRUCT WEST SERVICE ROAD CONNECTION WITH STH 54
(STA 1086+61 - STA 1090+00)

+ TEMP PAVEMENT MARKING
4-INCH, YELLOW SOLID

STAGE 4 CONSTRUCTION

REMOVE THE TEMPORARY WIDENING, INSTALL CURB & GUTTER, AND FINISH THE NORTH LANES OF STH 54 AND WEST SERVICE ROAD CONNECTION.

REMOVE TEMPORARY PAVEMENT AND INSTALL DIVIDING ISLAND ONCE ALL LANES ARE BINDERED.

CONSTRUCT REMAINING TRAILS AND GRADING ALONG OLD STH 54.

CONSTRUCT ARTLEY LANE EMERGENCY ACCESS.

COMPLETE ALL LANDSCAPING.

TRAFFIC

EAST SERVICE ROAD WILL BE OPENED, WEST SERVICE ROAD MAY REMAIN CLOSED UNTIL CONNECTION WITH STH 54 HAS BEEN COMPLETED

WESTBOUND STH 54 TRAFFIC MAY NEED TO BE SHIFTED TO THE SOUTH TO ALLOW FOR A LARGE ENOUGH WORK ZONE FOR WEST SERVICE ROAD CONNECTION TO BE COMPLETED

NOTES

TRAFFIC CONTROL SIGNING, DRUMS, AND BARRICADES WILL BE USED TO ISOLATE THE WORK ZONES AND DIRECT TRAFFIC TO THE OPEN LANES

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM W/ TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WTH ATTACHED SIGN
- FLASHING ARROW BOARD
- WORK ZONE
- DIRECTION OF TRAFFIC

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CONSTRUCTION STAGING - STAGE 4	SHEET 141	E

2

STAGE 4 CONSTRUCTION

REMOVE TEMPORARY WIDENING, INSTALL CURB & GUTTER, AND FINISH THE NORTH LANES OF STH 54 AND WEST SERVICE ROAD CONNECTION.

REMOVE TEMPORARY PAVEMENT AND INSTALL DIVIDING ISLAND ONCE ALL LANES ARE PAVED.

CONSTRUCT REMAINING TRAILS AND GRADING ALONG OLD STH 54.

CONSTRUCT ARTLEY LANE EMERGENCY ACCESS.

COMPLETE ALL LANDSCAPING.

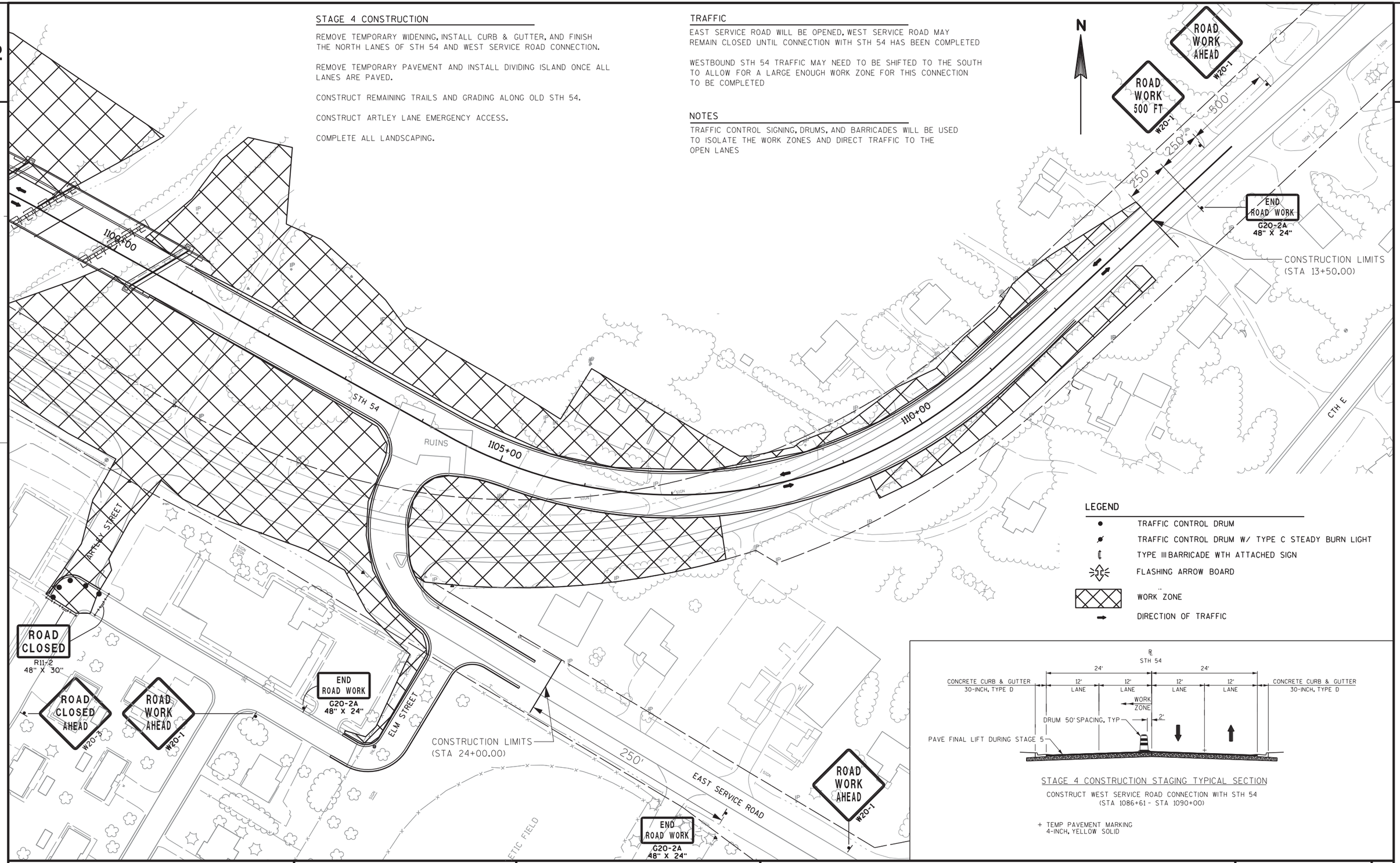
TRAFFIC

EAST SERVICE ROAD WILL BE OPENED, WEST SERVICE ROAD MAY REMAIN CLOSED UNTIL CONNECTION WITH STH 54 HAS BEEN COMPLETED

WESTBOUND STH 54 TRAFFIC MAY NEED TO BE SHIFTED TO THE SOUTH TO ALLOW FOR A LARGE ENOUGH WORK ZONE FOR THIS CONNECTION TO BE COMPLETED

NOTES

TRAFFIC CONTROL SIGNING, DRUMS, AND BARRICADES WILL BE USED TO ISOLATE THE WORK ZONES AND DIRECT TRAFFIC TO THE OPEN LANES



STAGE 4 CONSTRUCTION STAGING TYPICAL SECTION

CONSTRUCT WEST SERVICE ROAD CONNECTION WITH STH 54
(STA 1086+61 - STA 1090+00)

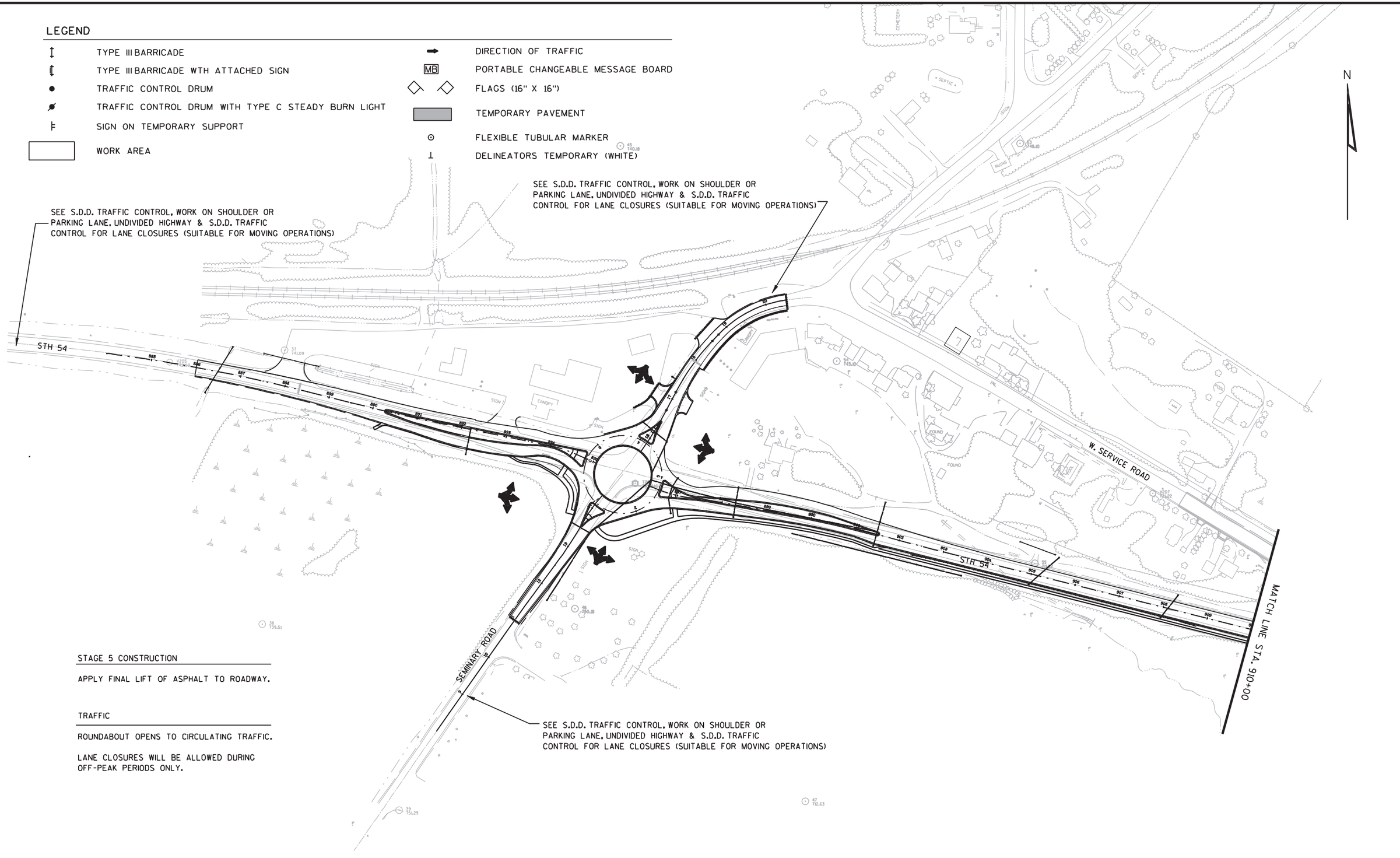
+ TEMP PAVEMENT MARKING
4-INCH, YELLOW SOLID

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CONSTRUCTION STAGING - STAGE 4	SHEET	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\026008_s1 .dgn
PLOT DATE : 10/30/2011
PLOT BY : 11721as
PLOT NAME :
PLOT SCALE : 100.000000 ' / in.
WISDOT/CADDS SHEET 42

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON TEMPORARY SUPPORT
- WORK AREA
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE BOARD (MB)
- FLAGS (16" X 16")
- TEMPORARY PAVEMENT
- FLEXIBLE TUBULAR MARKER
- DELINEATORS TEMPORARY (WHITE)



STAGE 5 CONSTRUCTION

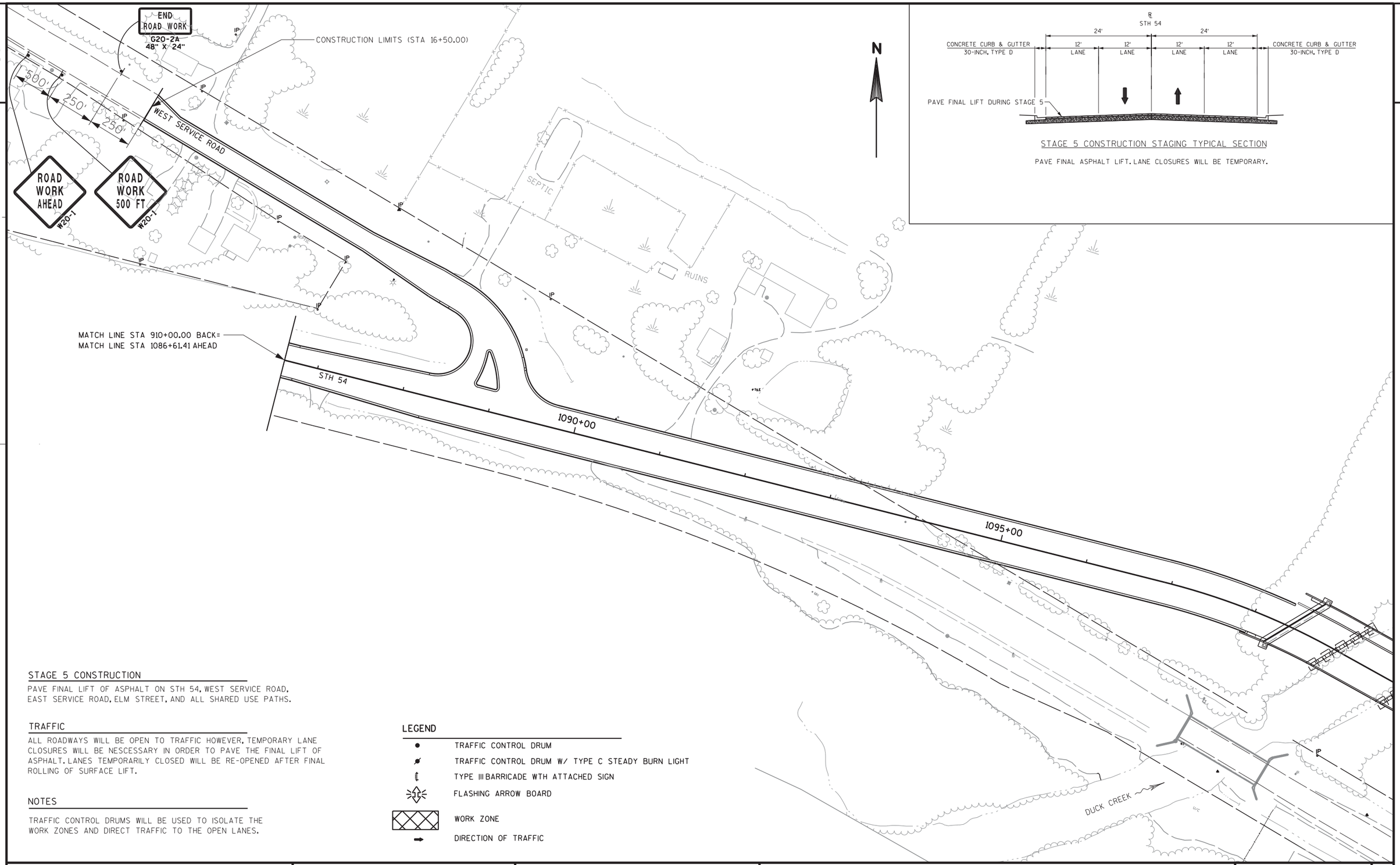
APPLY FINAL LIFT OF ASPHALT TO ROADWAY.

TRAFFIC

ROUNDABOUT OPENS TO CIRCULATING TRAFFIC.

LANE CLOSURES WILL BE ALLOWED DURING OFF-PEAK PERIODS ONLY.

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	CONSTRUCTION STAGING - STAGE 5	SHEET 143	E



STAGE 5 CONSTRUCTION STAGING TYPICAL SECTION

PAVE FINAL ASPHALT LIFT. LANE CLOSURES WILL BE TEMPORARY.

STAGE 5 CONSTRUCTION

PAVE FINAL LIFT OF ASPHALT ON STH 54, WEST SERVICE ROAD, EAST SERVICE ROAD, ELM STREET, AND ALL SHARED USE PATHS.

TRAFFIC

ALL ROADWAYS WILL BE OPEN TO TRAFFIC HOWEVER, TEMPORARY LANE CLOSURES WILL BE NESCESSARY IN ORDER TO PAVE THE FINAL LIFT OF ASPHALT. LANES TEMPORARILY CLOSED WILL BE RE-OPENED AFTER FINAL ROLLING OF SURFACE LIFT.

NOTES

TRAFFIC CONTROL DRUMS WILL BE USED TO ISOLATE THE WORK ZONES AND DIRECT TRAFFIC TO THE OPEN LANES.

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM W/ TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WTH ATTACHED SIGN
- FLASHING ARROW BOARD
- WORK ZONE
- DIRECTION OF TRAFFIC

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CONSTRUCTION STAGING - STAGE 5	SHEET 144	E

STAGE 5 CONSTRUCTION

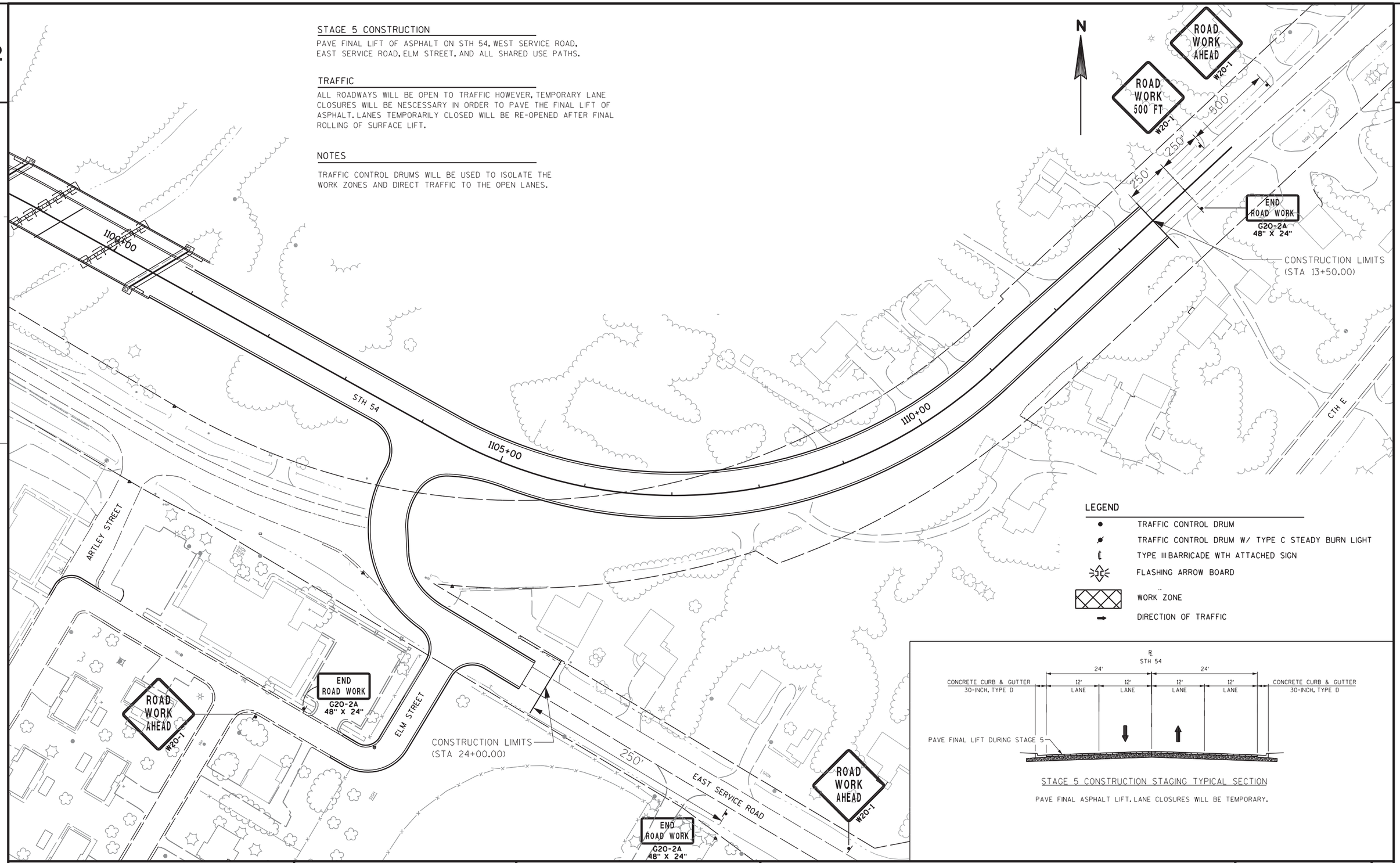
PAVE FINAL LIFT OF ASPHALT ON STH 54, WEST SERVICE ROAD, EAST SERVICE ROAD, ELM STREET, AND ALL SHARED USE PATHS.

TRAFFIC

ALL ROADWAYS WILL BE OPEN TO TRAFFIC HOWEVER, TEMPORARY LANE CLOSURES WILL BE NESCESSARY IN ORDER TO PAVE THE FINAL LIFT OF ASPHALT. LANES TEMPORARILY CLOSED WILL BE RE-OPENED AFTER FINAL ROLLING OF SURFACE LIFT.

NOTES

TRAFFIC CONTROL DRUMS WILL BE USED TO ISOLATE THE WORK ZONES AND DIRECT TRAFFIC TO THE OPEN LANES.



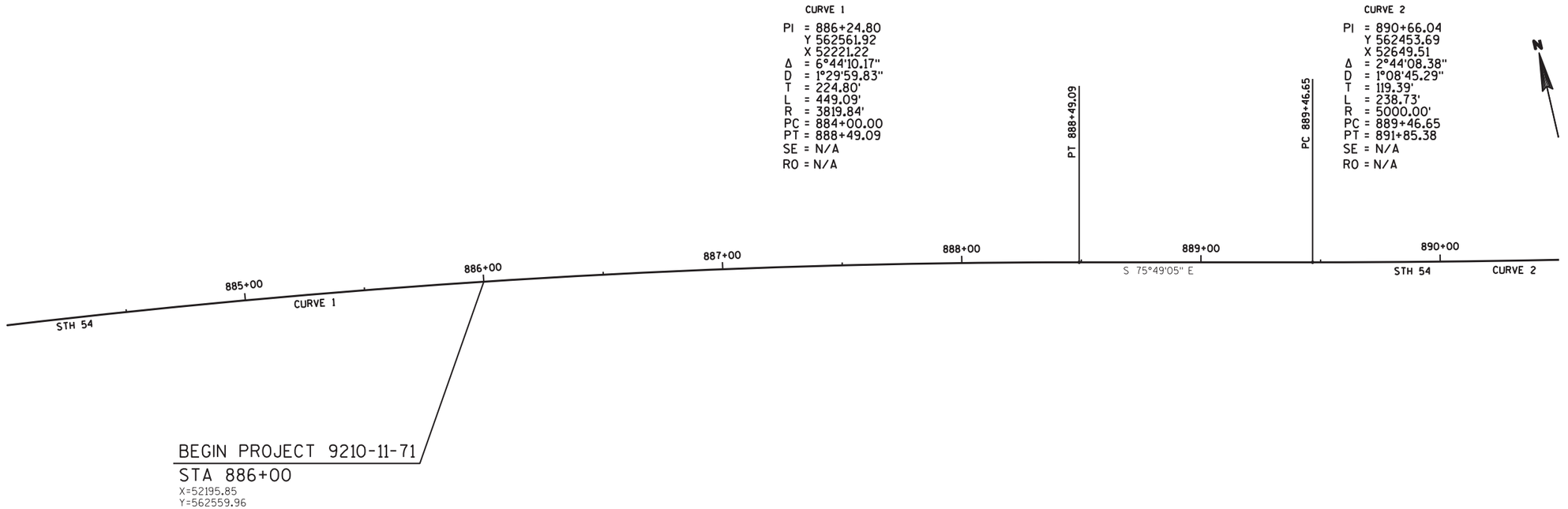
LEGEND

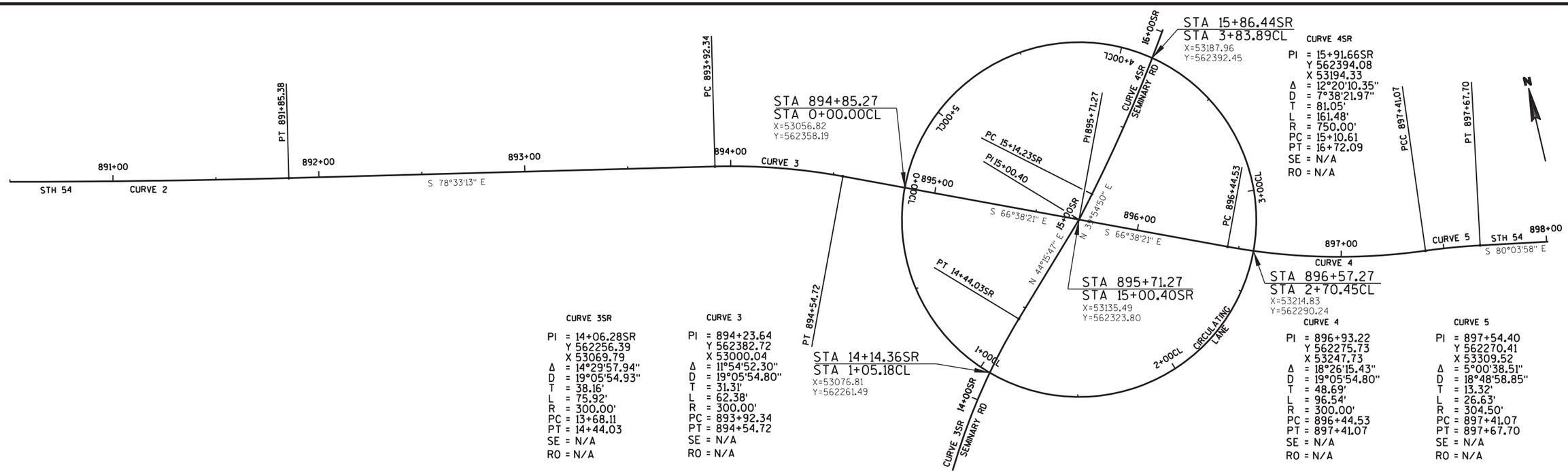
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM W/ TYPE C STEADY BURN LIGHT
- TYPE III BARRICADE WTH ATTACHED SIGN
- FLASHING ARROW BOARD
- WORK ZONE
- DIRECTION OF TRAFFIC

STAGE 5 CONSTRUCTION STAGING TYPICAL SECTION

PAVE FINAL ASPHALT LIFT. LANE CLOSURES WILL BE TEMPORARY.

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CONSTRUCTION STAGING - STAGE 5	SHEET 145	E





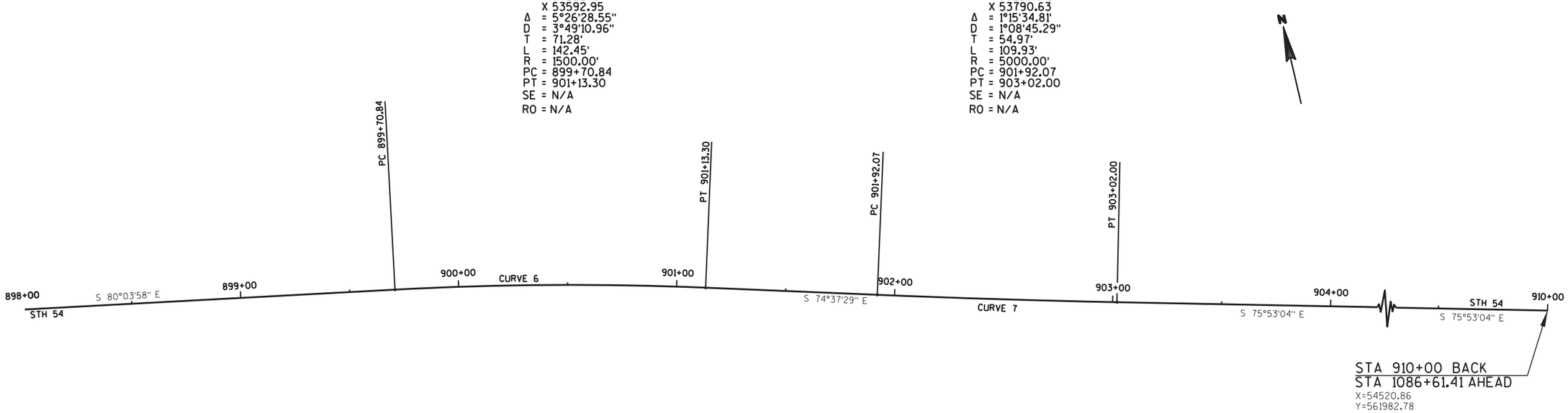
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	ALIGNMENT DETAILS	SHEET 146	E

CURVE 6

PI = 901+13.30
Y 562220.77
X 53592.95
Δ = 5°26'28.55"
D = 3°49'10.96"
T = 71.28'
L = 142.45'
R = 1500.00'
PC = 899+70.84
PT = 901+13.30
SE = N/A
RO = N/A

CURVE 7

PI = 902+47.04
Y 562166.41
X 53790.63
Δ = 1°15'34.81'
D = 1°08'45.29"
T = 54.97'
L = 109.93'
R = 5000.00'
PC = 901+92.07
PT = 903+02.00
SE = N/A
RO = N/A

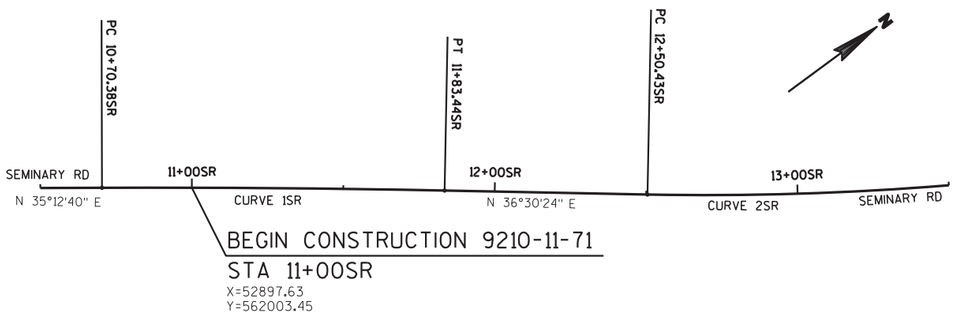


CURVE 1SR

PI = 11+26.91SR
Y 562025.48
X 52913.07
Δ = 1°17'43.83"
D = 1°08'45.30"
T = 56.53'
L = 113.05'
R = 5000.00'
PC = 10+70.38SR
PT = 11+83.44SR
SE = N/A
RO = N/A

CURVE 2SR

PI = 13+09.34SR
Y 562172.12
X 53021.60
Δ = 6°44'34.73"
D = 5°43'46.48"
T = 58.91'
L = 117.69'
R = 1000.00'
PC = 12+50.43SR
PT = 13+68.11SR
SE = N/A
RO = N/A



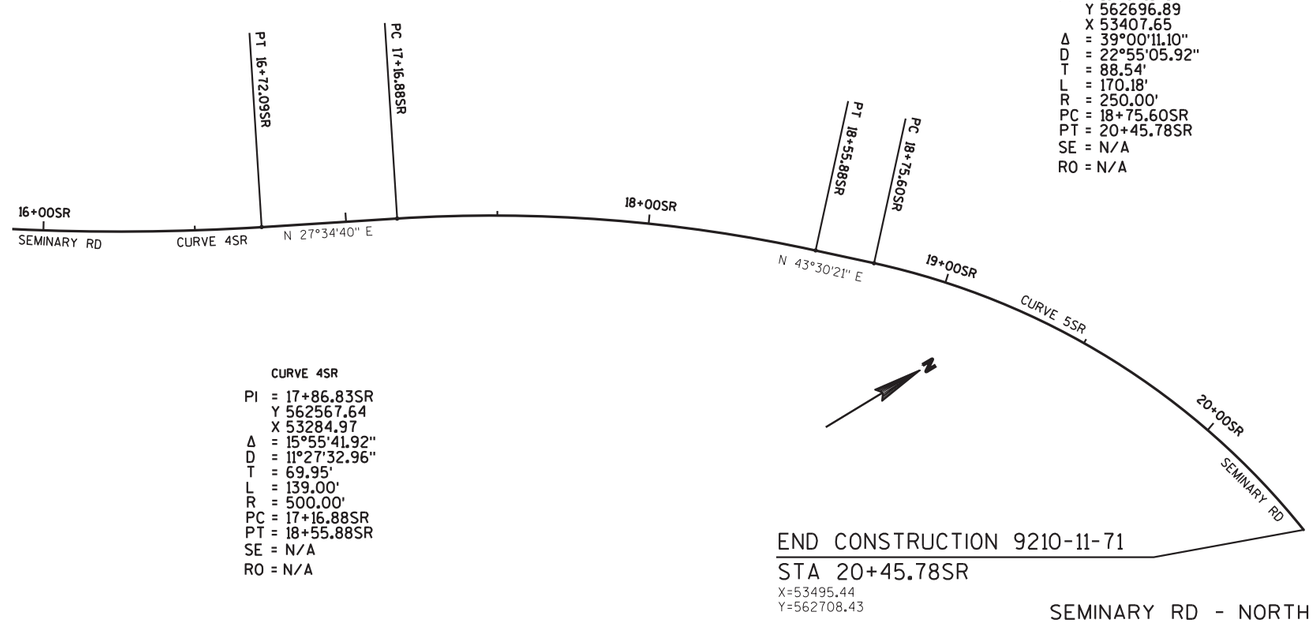
SEMINARY RD - SOUTH

CURVE 4SR

PI = 17+86.83SR
Y 562567.64
X 53284.97
Δ = 15°55'41.92"
D = 11°27'32.96"
T = 69.95'
L = 139.00'
R = 500.00'
PC = 17+16.88SR
PT = 18+55.88SR
SE = N/A
RO = N/A

CURVE 5SR

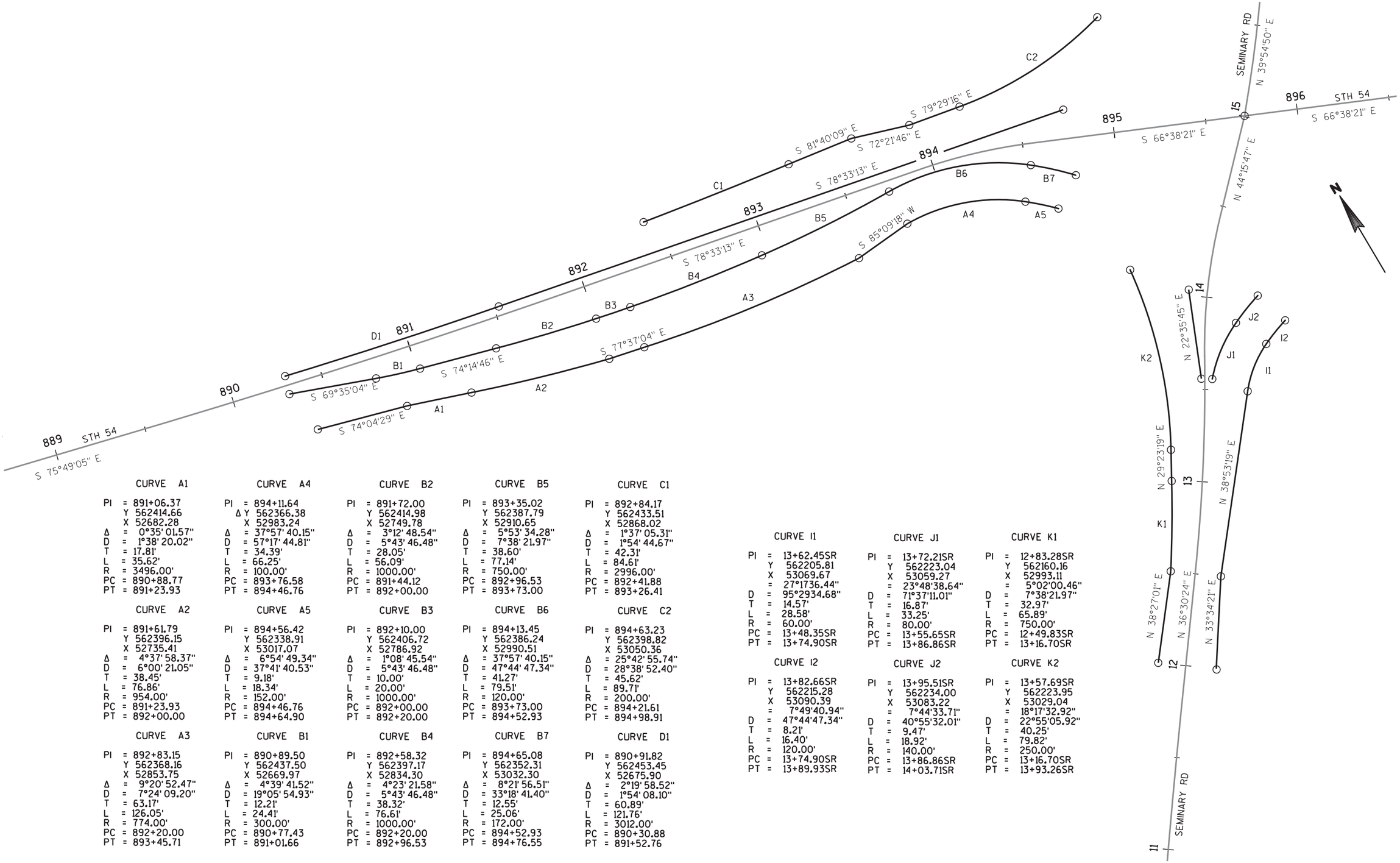
PI = 19+64.14SR
Y 562696.89
X 53407.65
Δ = 39°00'11.10"
D = 22°55'05.92"
T = 88.54'
L = 170.18'
R = 250.00'
PC = 18+75.60SR
PT = 20+45.78SR
SE = N/A
RO = N/A



SEMINARY RD - NORTH

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	ALIGNMENT DETAILS	SHEET	E

FILE NAME : 027202_ad.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 50.000000' / in. WISDOT/CADDS SHEET



CURVE A1

PI	= 891+06.37
Y	562414.66
X	52682.28
Δ	= 0°35' 01.57"
D	= 1°38' 20.02"
T	= 17.81'
L	= 35.62'
R	= 3496.00'
PC	= 890+88.77
PT	= 891+23.93

CURVE A2

PI	= 891+61.79
Y	562396.15
X	52735.41
Δ	= 4°37' 58.37"
D	= 6°00' 21.05"
T	= 38.45'
L	= 76.86'
R	= 954.00'
PC	= 891+23.93
PT	= 892+00.00

CURVE A3

PI	= 892+83.15
Y	562368.16
X	52853.75
Δ	= 9°20' 52.47"
D	= 7°24' 09.20"
T	= 63.17'
L	= 126.05'
R	= 774.00'
PC	= 892+20.00
PT	= 893+45.71

CURVE A4

PI	= 894+11.64
Δ Y	562366.38
X	52983.24
Δ	= 37°57' 40.15"
D	= 57°17' 44.81"
T	= 34.39'
L	= 66.25'
R	= 100.00'
PC	= 893+76.58
PT	= 894+46.76

CURVE A5

PI	= 894+56.42
Y	562338.91
X	53017.07
Δ	= 6°54' 49.34"
D	= 37°41' 40.53"
T	= 9.18'
L	= 18.34'
R	= 152.00'
PC	= 894+46.76
PT	= 894+64.90

CURVE B1

PI	= 890+89.50
Y	562437.50
X	52669.97
Δ	= 4°39' 41.52"
D	= 19°05' 54.93"
T	= 12.21'
L	= 24.41'
R	= 300.00'
PC	= 890+77.43
PT	= 891+01.66

CURVE B2

PI	= 891+72.00
Y	562414.98
X	52749.78
Δ	= 3°12' 48.54"
D	= 5°43' 46.48"
T	= 28.05'
L	= 56.09'
R	= 1000.00'
PC	= 891+44.12
PT	= 892+00.00

CURVE B3

PI	= 892+10.00
Y	562406.72
X	52786.92
Δ	= 1°08' 45.54"
D	= 5°43' 46.48"
T	= 10.00'
L	= 20.00'
R	= 1000.00'
PC	= 892+00.00
PT	= 892+20.00

CURVE B4

PI	= 892+58.32
Y	562397.17
X	52834.30
Δ	= 4°23' 21.58"
D	= 5°43' 46.48"
T	= 38.32'
L	= 76.61'
R	= 1000.00'
PC	= 892+20.00
PT	= 892+96.53

CURVE B5

PI	= 893+35.02
Y	562387.79
X	52910.65
Δ	= 5°53' 34.28"
D	= 7°38' 21.97"
T	= 38.60'
L	= 77.14'
R	= 750.00'
PC	= 892+96.53
PT	= 893+73.00

CURVE B6

PI	= 894+13.45
Y	562386.24
X	52990.51
Δ	= 37°57' 40.15"
D	= 47°44' 47.34"
T	= 41.27'
L	= 79.51'
R	= 120.00'
PC	= 893+73.00
PT	= 894+52.93

CURVE B7

PI	= 894+65.08
Y	562352.31
X	53032.30
Δ	= 8°21' 56.51"
D	= 33°18' 41.40"
T	= 12.55'
L	= 25.06'
R	= 172.00'
PC	= 894+52.93
PT	= 894+76.55

CURVE C1

PI	= 892+84.17
Y	562433.51
X	52868.02
Δ	= 1°37' 05.31"
D	= 1°54' 44.67"
T	= 42.31'
L	= 84.61'
R	= 2996.00'
PC	= 892+41.88
PT	= 893+26.41

CURVE C2

PI	= 894+63.23
Y	562398.82
X	53050.36
Δ	= 25°42' 55.74"
D	= 28°38' 52.40"
T	= 45.62'
L	= 89.71'
R	= 200.00'
PC	= 894+21.61
PT	= 894+98.91

CURVE D1

PI	= 890+91.82
Y	562453.45
X	52675.90
Δ	= 2°19' 58.52"
D	= 1°54' 08.10"
T	= 60.89'
L	= 121.76'
R	= 3012.00'
PC	= 890+30.88
PT	= 891+52.76

CURVE I1

PI	= 13+62.45SR
Y	562205.81
X	53069.67
=	27°1736.44"
D	= 95°2934.68"
T	= 14.57'
L	= 28.58'
R	= 60.00'
PC	= 13+48.35SR
PT	= 13+74.90SR

CURVE I2

PI	= 13+82.66SR
Y	562215.28
X	53090.39
=	7°49'40.94"
D	= 47°44'47.34"
T	= 8.21'
L	= 16.40'
R	= 120.00'
PC	= 13+74.90SR
PT	= 13+89.93SR

CURVE J1

PI	= 13+72.21SR
Y	562223.04
X	53059.27
=	23°48'38.64"
D	= 71°37'11.01"
T	= 16.87'
L	= 33.25'
R	= 80.00'
PC	= 13+55.65SR
PT	= 13+86.86SR

CURVE J2

PI	= 13+95.51SR
Y	562234.00
X	53083.22
=	7°44'33.71"
D	= 40°55'32.01"
T	= 9.47'
L	= 18.92'
R	= 140.00'
PC	= 13+86.86SR
PT	= 14+03.71SR

CURVE K1

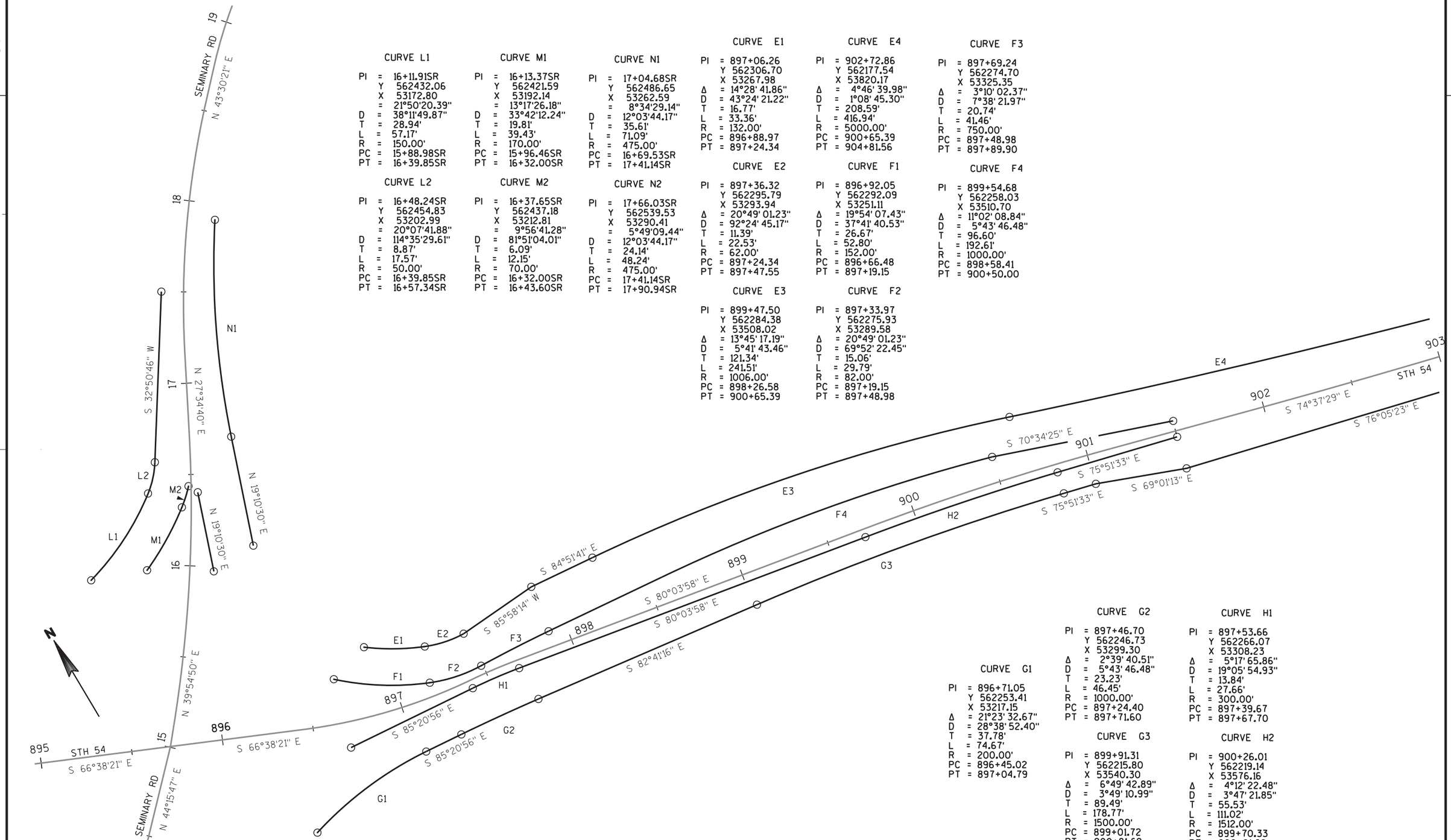
PI	= 12+83.28SR
Y	562160.16
X	52993.11
=	5°02'00.46"
D	= 7°38'21.97"
T	= 32.97'
L	= 65.89'
R	= 750.00'
PC	= 12+49.83SR
PT	= 13+16.70SR

CURVE K2

PI	= 13+57.69SR
Y	562223.95
X	53029.04
=	18°17'32.92"
D	= 22°55'05.92"
T	= 40.25'
L	= 79.82'
R	= 250.00'
PC	= 13+16.70SR
PT	= 13+93.26SR

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	ALIGNMENT DETAILS - CURB AND GUTTER	SHEET 148	E

2



CURVE L1

PI	=	16+11.91SR
	Y	562432.06
	X	53172.80
	=	21°50'20.39"
D	=	38°11'49.87"
T	=	28.94'
L	=	57.17'
R	=	150.00'
PC	=	15+88.98SR
PT	=	16+39.85SR

CURVE L2

PI	=	16+48.24SR
	Y	562454.83
	X	53202.99
	=	20°07'41.88"
D	=	114°35'29.61"
T	=	8.87'
L	=	17.57'
R	=	50.00'
PC	=	16+39.85SR
PT	=	16+57.34SR

CURVE M1

PI	=	16+13.37SR
	Y	562421.59
	X	53192.14
	=	13°17'26.18"
D	=	33°42'12.24"
T	=	19.81'
L	=	39.43'
R	=	170.00'
PC	=	15+96.46SR
PT	=	16+32.00SR

CURVE M2

PI	=	16+37.65SR
	Y	562437.18
	X	53212.81
	=	9°56'41.28"
D	=	81°51'04.01"
T	=	6.09'
L	=	12.15'
R	=	70.00'
PC	=	16+32.00SR
PT	=	16+43.60SR

CURVE N1

PI	=	17+04.68SR
	Y	562486.65
	X	53262.59
	=	8°34'29.14"
D	=	12°03'44.17"
T	=	35.61'
L	=	71.09'
R	=	475.00'
PC	=	16+69.53SR
PT	=	17+41.14SR

CURVE N2

PI	=	17+66.03SR
	Y	562539.53
	X	53290.41
	=	5°49'09.44"
D	=	12°03'44.17"
T	=	24.14'
L	=	48.24'
R	=	475.00'
PC	=	17+41.14SR
PT	=	17+90.94SR

CURVE E1

PI	=	897+06.26
	Y	562306.70
	X	53267.98
Δ	=	14°28' 41.86"
D	=	43°24' 21.22"
T	=	16.77'
L	=	33.36'
R	=	132.00'
PC	=	896+88.97
PT	=	897+24.34

CURVE E2

PI	=	897+36.32
	Y	562295.79
	X	53293.94
Δ	=	20°49' 01.23"
D	=	92°24' 45.17"
T	=	11.39'
L	=	22.53'
R	=	62.00'
PC	=	897+24.34
PT	=	897+47.55

CURVE E3

PI	=	899+47.50
	Y	562284.38
	X	53508.02
Δ	=	13°45' 17.19"
D	=	5°41' 43.46"
T	=	121.34'
L	=	241.51'
R	=	1006.00'
PC	=	898+26.58
PT	=	900+65.39

CURVE E4

PI	=	902+72.86
	Y	562177.54
	X	53820.17
Δ	=	4°46' 39.98"
D	=	1°08' 45.30"
T	=	208.59'
L	=	416.94'
R	=	5000.00'
PC	=	900+65.39
PT	=	904+81.56

CURVE F1

PI	=	896+92.05
	Y	562292.09
	X	53251.11
Δ	=	19°54' 07.43"
D	=	37°41' 40.53"
T	=	26.67'
L	=	52.80'
R	=	152.00'
PC	=	896+66.48
PT	=	897+19.15

CURVE F2

PI	=	897+33.97
	Y	562275.93
	X	53289.58
Δ	=	20°49' 01.23"
D	=	69°52' 22.45"
T	=	15.06'
L	=	29.79'
R	=	82.00'
PC	=	897+19.15
PT	=	897+48.98

CURVE F3

PI	=	897+69.24
	Y	562274.70
	X	53325.35
Δ	=	3°10' 02.37"
D	=	7°38' 21.97"
T	=	20.74'
L	=	41.46'
R	=	750.00'
PC	=	897+48.98
PT	=	897+89.90

CURVE F4

PI	=	899+54.68
	Y	562258.03
	X	53510.70
Δ	=	11°02' 08.84"
D	=	5°43' 46.48"
T	=	96.60'
L	=	192.61'
R	=	1000.00'
PC	=	898+58.41
PT	=	900+50.00

CURVE G1

PI	=	896+71.05
	Y	562253.41
	X	53217.15
Δ	=	21°23' 32.67"
D	=	28°38' 52.40"
T	=	37.78'
L	=	74.67'
R	=	200.00'
PC	=	896+45.02
PT	=	897+04.79

CURVE G2

PI	=	897+46.70
	Y	562246.73
	X	53299.30
Δ	=	2°39' 40.51"
D	=	5°43' 46.48"
T	=	23.23'
L	=	46.45'
R	=	1000.00'
PC	=	897+24.40
PT	=	897+71.60

CURVE G3

PI	=	899+91.31
	Y	562215.80
	X	53540.30
Δ	=	6°49' 42.89"
D	=	3°49' 10.99"
T	=	89.49'
L	=	178.77'
R	=	1500.00'
PC	=	899+01.72
PT	=	900+81.69

CURVE H1

PI	=	897+53.66
	Y	562266.07
	X	53308.23
Δ	=	5°17' 65.86"
D	=	19°05' 54.93"
T	=	13.84'
L	=	27.66'
R	=	300.00'
PC	=	897+39.67
PT	=	897+67.70

CURVE H2

PI	=	900+26.01
	Y	562219.14
	X	53576.16
Δ	=	4°12' 22.48"
D	=	3°47' 21.85"
T	=	55.53'
L	=	111.02'
R	=	1512.00'
PC	=	899+70.33
PT	=	900+81.68

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	ALIGNMENT DETAILS - CURB AND GUTTER	SHEET 149	E

2

CURVE 1

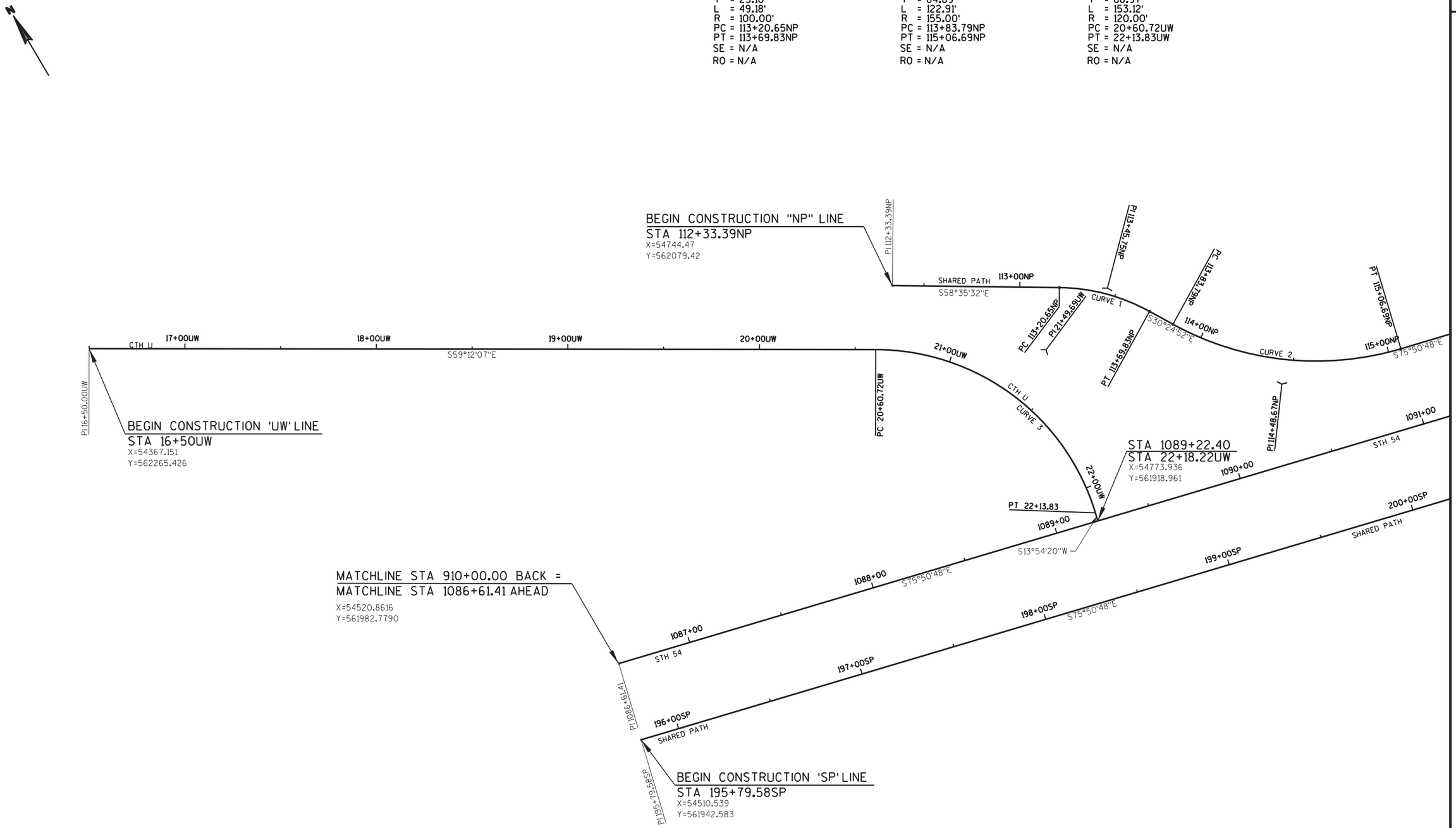
PI = 113+45.75NP
Y 562020.86
X 54840.37
Δ = 28°10'40"
D = 57°17'45"
T = 25.10'
L = 49.18'
R = 100.00'
PC = 113+20.65NP
PT = 113+69.83NP
SE = N/A
RO = N/A

CURVE 2

PI = 114+48.67NP
Y 561931.22
X 54892.99
Δ = -45°25'56"
D = 36°57'54"
T = 64.89'
L = 122.91'
R = 155.00'
PC = 113+83.79NP
PT = 115+06.69NP
SE = N/A
RO = N/A

CURVE 3

PI = 21+49.69UW
Y 562009.58
X 54796.37
Δ = 73°06'27"
D = 47°44'47"
T = 88.97'
L = 153.12'
R = 120.00'
PC = 20+60.72UW
PT = 22+13.83UW
SE = N/A
RO = N/A



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	ALIGNMENT DETAILS	SHEET 150	E

CURVE 4

PI = 116+61.80NP
Y 561877.43
X 55106.32
Δ = -11°51'23"
D = 11°27'33"
T = 51.92'
L = 103.47'
R = 500.00'
PC = 116+09.88NP
PT = 117+13.35NP
SE = N/A
RO = N/A

CURVE 5

PI = 118+72.97NP
Y 561868.95
X 55317.69
Δ = 17°39'18"
D = 5°43'46"
T = 155.30'
L = 308.14'
R = 1000.00
PC = 117+17.68NP
PT = 120+25.81NP
SE = N/A
RO = N/A

CURVE 6

PI = 121+72.30NP
Y 561765.97
X 55601.37
Δ = 17°03'00"
D = 11°27'33"
T = 74.95'
L = 148.79'
R = 500.00'
PC = 120+97.35NP
PT = 122+46.14NP
SE = N/A
RO = N/A

CURVE 7

PI = 122+53.70NP
Y 561716.32
X 55667.25
Δ = -12°15'19"
D = 81°51'04"
T = 7.52'
L = 14.97'
R = 70.00'
PC = 122+46.18NP
PT = 122+61.15NP
SE = N/A
RO = N/A

CURVE 8

PI = 57+74.72RU
Y 561838.86
X 55496.14
Δ = -74°59'53"
D = 159°09'18"
T = 27.62'
L = 47.12'
R = 36.00'
PC = 57+47.09RU
PT = 57+94.22RU
SE = N/A
RO = N/A

CURVE 9

PI = 56+41.23RU
Y 561827.23
X 55630.31
Δ = -21°53'35"
D = 22°55'06"
T = 48.35'
L = 95.53'
R = 250.00'
PC = 55+92.88RU
PT = 56+88.40RU
SE = N/A
RO = N/A

CURVE 10

PI = 1097+96.59
Y 561705.21
X 55621.59
Δ = 14°53'11"
D = 7°09'43"
T = 104.52'
L = 207.85'
R = 800.00'
PC = 1096+92.08
PT = 1098+99.93
SE = N/A
RO = N/A

CURVE 11

PI = 202+91.72SP
Y 561768.45
X 55201.06
Δ = 16°34'52"
D = 11°27'33"
T = 72.86'
L = 144.70'
R = 500.00'
PC = 202+18.86SP
PT = 203+63.56SP
SE = N/A
RO = N/A

CURVE 12

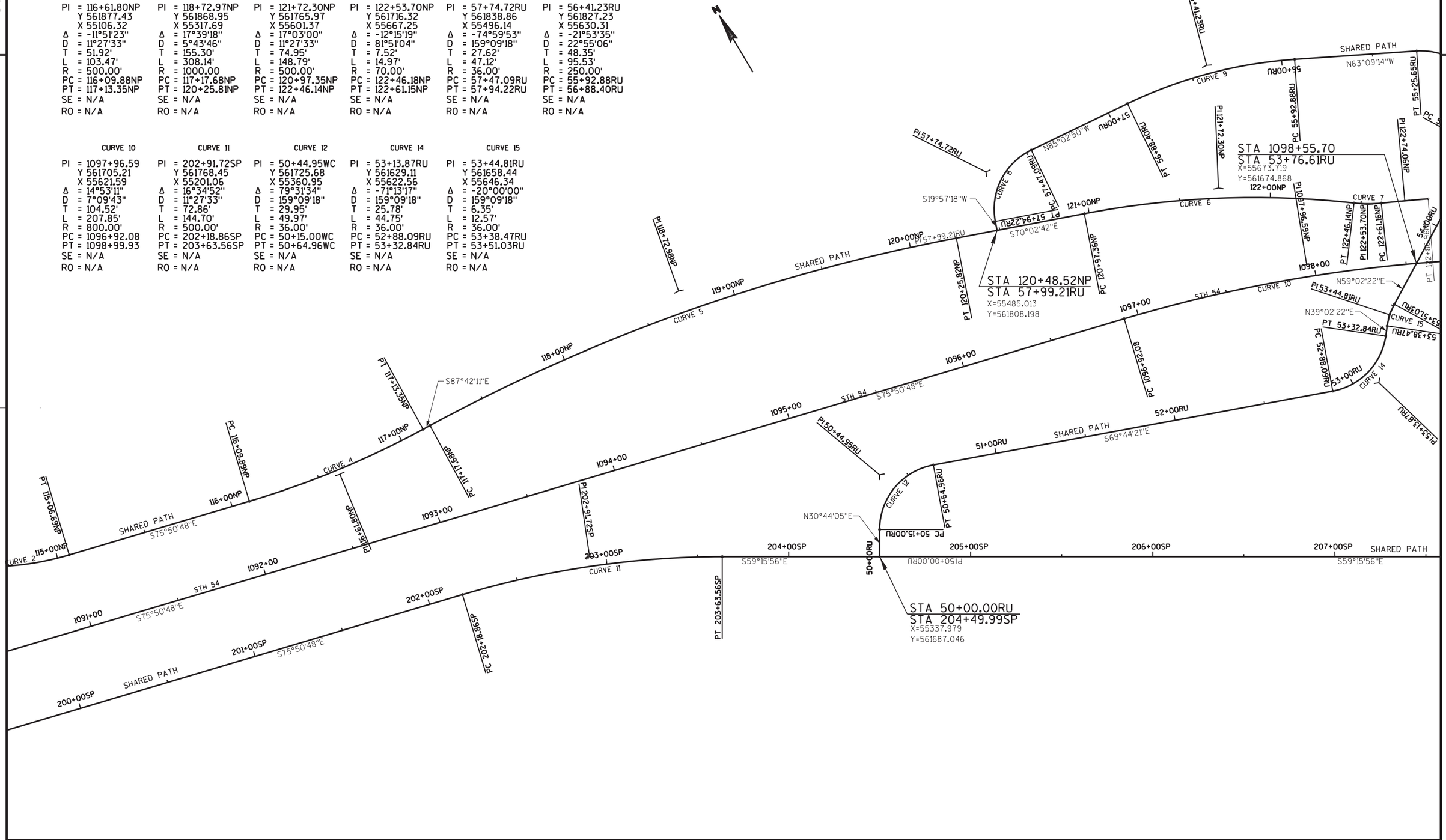
PI = 50+44.95WC
Y 561725.68
X 55360.95
Δ = 79°31'34"
D = 159°09'18"
T = 29.95'
L = 49.97'
R = 36.00'
PC = 50+15.00WC
PT = 50+64.96WC
SE = N/A
RO = N/A

CURVE 14

PI = 53+13.87RU
Y 561629.11
X 55622.56
Δ = -71°13'17"
D = 159°09'18"
T = 25.78'
L = 44.75'
R = 36.00'
PC = 52+88.09RU
PT = 53+32.84RU
SE = N/A
RO = N/A

CURVE 15

PI = 53+44.81RU
Y 561658.44
X 55646.34
Δ = -20°00'00"
D = 159°09'18"
T = 6.35'
L = 12.57'
R = 36.00'
PC = 53+38.47RU
PT = 53+51.03RU
SE = N/A
RO = N/A



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	ALIGNMENT DETAILS	SHEET 151	E

CURVE 16
PI = 55+14.08RU
Y 561745.59
X 55791.60
Δ = -122°11'36"
D = 159°09'18"
T = 65.20'
L = 76.78'
R = 36.00'
PC = 54+48.88RU
PT = 55+25.65RU
SE = N/A
RO = N/A

CURVE 17
PI = 70+29.03RE
Y 561441.13
X 55808.38
Δ = -42°33'27"
D = 159°09'18"
T = 14.02'
L = 26.74'
R = 36.00'
PC = 70+15.01RE
PT = 70+41.75RE
SE = N/A
RO = N/A

CURVE 18
PI = 71+47.90RE
Y 561558.75
X 55783.76
Δ = 70°51'44"
D = 159°09'18"
T = 25.61'
L = 44.52'
R = 36.00'
PC = 71+22.28RE
PT = 71+66.81RE
SE = N/A
RO = N/A

CURVE 19
PI = 72+54.75RE
Y 561617.17
X 55881.14
Δ = -29°50'33"
D = 71°37'11"
T = 21.32'
L = 41.67'
R = 80.00'
PC = 72+33.43RE
PT = 72+75.10RE
SE = N/A
RO = N/A

CURVE 20
PI = 73+69.77RE
Y 561718.42
X 55937.72
Δ = 89°50'34"
D = 159°09'18"
T = 35.90'
L = 56.45'
R = 36.00'
PC = 73+33.87RE
PT = 73+90.32RE
SE = N/A
RO = N/A

CURVE 21
PI = 74+26.32RE
Y 561683.51
X 56000.58
Δ = 90°00'01"
D = 159°09'18"
T = 36.00'
L = 56.55'
R = 36.00'
PC = 73+90.32RE
PT = 74+46.87RE
SE = N/A
RO = N/A

CURVE 22
PI = 75+41.08RE
Y 561569.67
X 55937.37
Δ = 89°59'59"
D = 159°09'18"
T = 36.00'
L = 56.55'
R = 36.00'
PC = 75+05.08RE
PT = 75+61.63RE
SE = N/A
RO = N/A

CURVE 23
PI = 81+29.57EP
Y 561568.54
X 56084.87
Δ = 19°02'44"
D = 57°17'45"
T = 16.78'
L = 33.24'
R = 100.00'
PC = 81+12.80EP
PT = 81+46.04EP
SE = N/A
RO = N/A

CURVE 24
PI = 81+87.51EP
Y 561523.89
X 56122.26
Δ = -19°01'55"
D = 57°17'45"
T = 16.76'
L = 33.22'
R = 100.00'
PC = 81+70.75EP
PT = 83+84.06EP
SE = N/A
RO = N/A

CURVE 25
PI = 21+84.75UE
Y 561246.92
X 56066.40
Δ = -87°55'30"
D = 47°44'47"
T = 115.73'
L = 184.15'
R = 120.00'
PC = 20+69.02UE
PT = 22+53.17UE
SE = N/A
RO = N/A

CURVE 26
PI = 211+36.41SP
Y 561336.24
X 55927.99
Δ = -19°15'53"
D = 12°43'57"
T = 76.37'
L = 151.30'
R = 450.00'
PC = 210+60.04SP
PT = 212+11.34SP
SE = N/A
RO = N/A

CURVE 27
PI = 212+72.93SP
Y 561308.81
X 56063.19
Δ = 63°15'07"
D = 57°17'45"
T = 61.58'
L = 110.40'
R = 100.00'
PC = 212+11.34SP
PT = 213+21.74SP
SE = N/A
RO = N/A

CURVE 28
PI = 213+83.39SP
Y 561189.94
X 56095.66
Δ = -43°39'11"
D = 37°19'34"
T = 61.48'
L = 116.95'
R = 153.50'
PC = 213+21.91SP
PT = 214+38.86SP
SE = N/A
RO = N/A

CURVE 29
PI = 1108+19.70
Y 561208.00
X 56517.11
Δ = -72°02'23"
D = 10°48'38"
T = 385.35'
L = 666.39'
R = 530.00'
PC = 1104+34.36
PT = 1111+00.74
SE = N/A
RO = N/A

STA 80+00.00EP
STA 74+66.01RE
X=55973.815
Y=561635.306

STA 1100+36.77
STA 71+98.15RE
X=55832.606
Y=561588.049

STA 1101+54.46
STA 43+60.00AS
X=55935.494
Y=561530.925

STA 1104+06.76
STA 20+00.00UE
X=56156.083
Y=561408.451

STA 1098+55.70
STA 53+76.61RU
X=55673.719
Y=561674.868

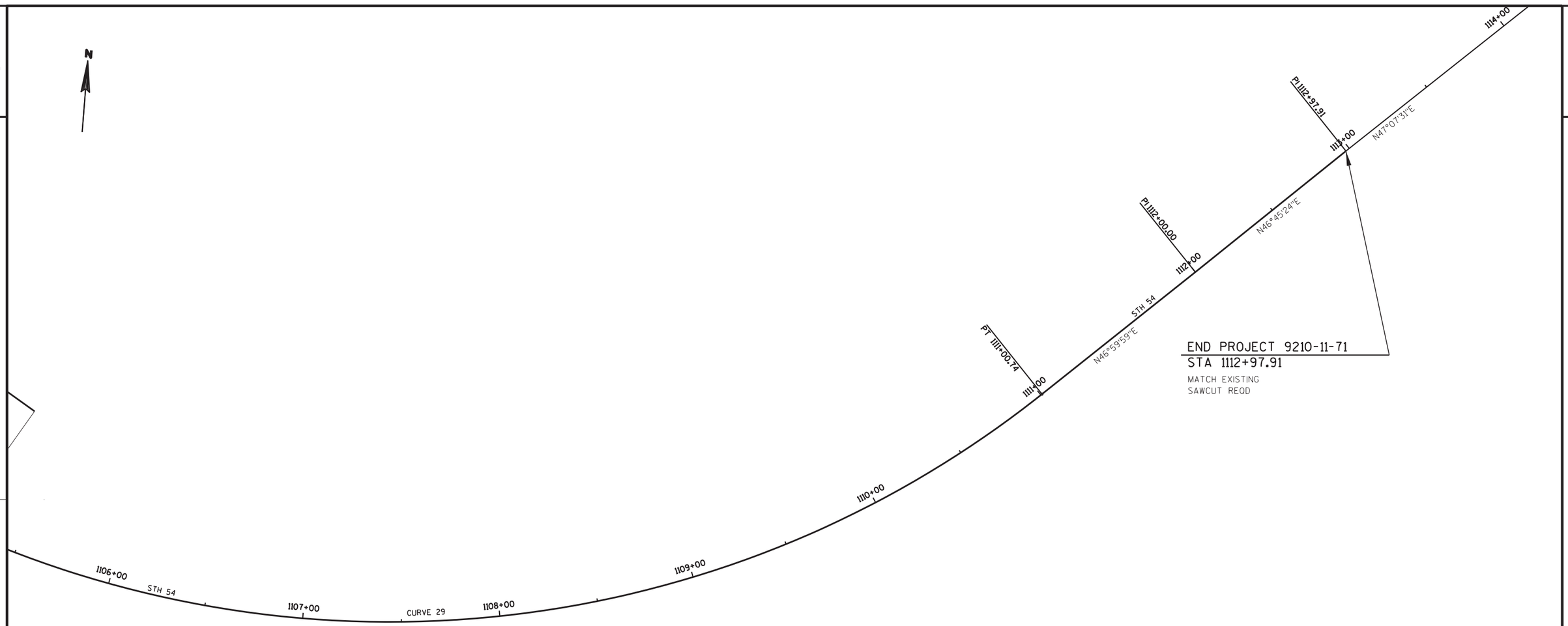
STA 210+43.92SP
STA 41+88.83AS
X=55848.489
Y=561383.513

STA 22+85.00UE
STA 32+39.32ES
X=56192.731
Y=561170.672

STA 70+00.00RE
STA 209+80.00SP
X=55793.545
Y=561416.181

STA 214+70.44SP
STA 32+05.79ES
X=56175.372
Y=561141.912

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	ALIGNMENT DETAILS	SHEET 152 E

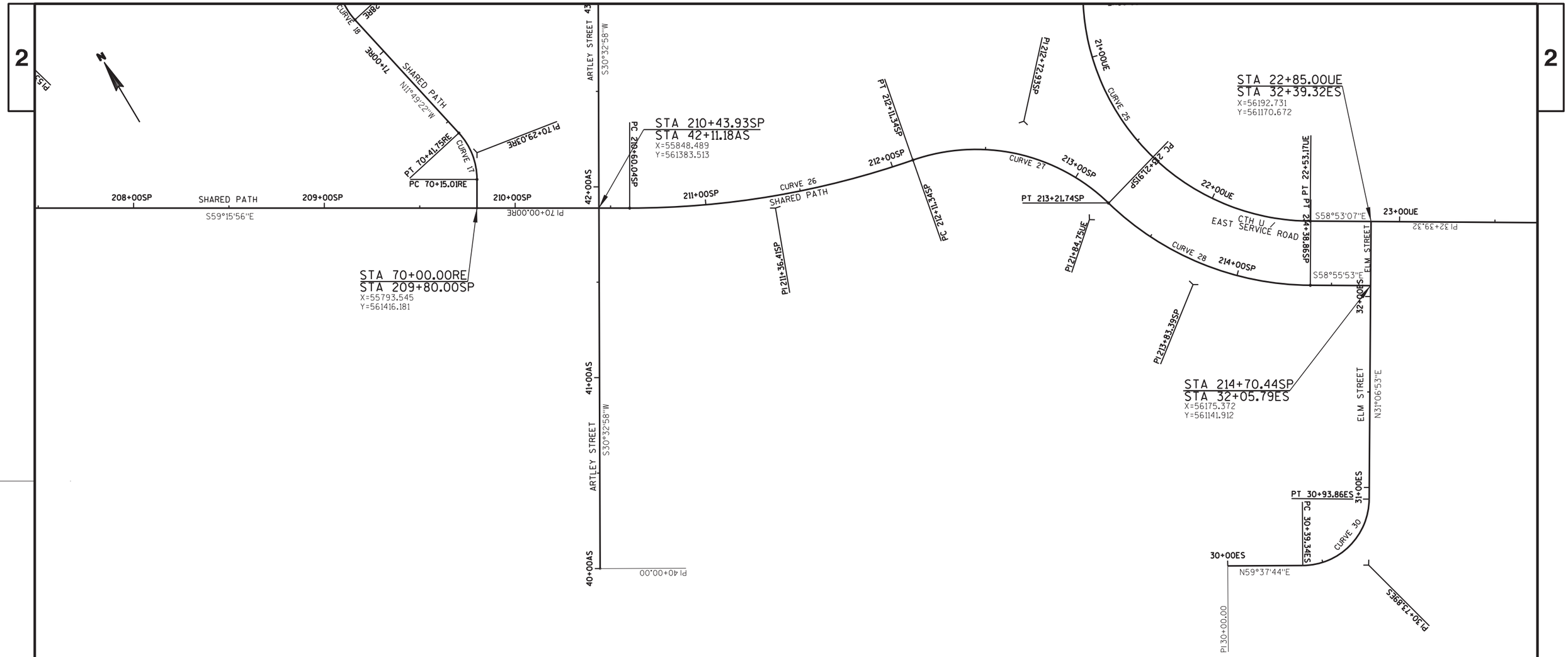


CURVE 29

PI = 1108+19.70
Y 561208.00
X 56517.11
Δ = -72°02'23"
D = 10°48'38"
T = 385.35'
L = 666.39'
R = 530.00'
PC = 1104+34.36
PT = 1111+00.74
SE = N/A
RO = N/A

2

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	ALIGNMENT DETAILS	SHEET 153	E



CURVE 17

PI = 70+29.03RE
Y 561441.13
X 55808.38
Δ = -42°33'27"
D = 159°09'18"
T = 14.02'
L = 26.74'
R = 36.00'
PC = 70+15.01RE
PT = 70+41.75RE
SE = N/A
RO = N/A

CURVE 18

PI = 71+47.90RE
Y 561558.75
X 55783.76
Δ = 70°51'44"
D = 159°09'18"
T = 25.61'
L = 44.52'
R = 36.00'
PC = 71+22.28RE
PT = 71+66.81RE
SE = N/A
RO = N/A

CURVE 25

PI = 21+84.75UE
Y 561246.92
X 56066.40
Δ = -87°55'30"
D = 47°44'47"
T = 115.73'
L = 184.15'
R = 120.00'
PC = 20+69.02UE
PT = 22+53.17UE
SE = N/A
RO = N/A

CURVE 26

PI = 211+36.41SP
Y 561336.24
X 55927.99
Δ = -19°15'53"
D = 12°43'57"
T = 76.37'
L = 151.30'
R = 450.00'
PC = 210+60.04SP
PT = 212+11.34SP
SE = N/A
RO = N/A

CURVE 27

PI = 212+72.93SP
Y 561308.81
X 56063.19
Δ = 63°15'07"
D = 57°17'45"
T = 61.58'
L = 110.40'
R = 100.00'
PC = 212+11.34SP
PT = 213+21.74SP
SE = N/A
RO = N/A

CURVE 28

PI = 213+83.39SP
Y 561189.94
X 56095.66
Δ = -43°39'11"
D = 37°19'34"
T = 61.48'
L = 116.95'
R = 153.50'
PC = 213+21.91SP
PT = 214+38.86SP
SE = N/A
RO = N/A

CURVE 30

PI = 30+73.89ES
Y 561016.56
X 56099.71
Δ = -89°15'23"
D = 163°42'08"
T = 34.55'
L = 54.52'
R = 35.00'
PC = 30+39.34ES
PT = 30+93.86ES
SE = N/A
RO = N/A

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	ALIGNMENT DETAILS	SHEET 154	E

DATE 18JAN12 — E S T I M A T E O F Q U A N T I T I E S

LINE — 9210-11-71

NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	201.0105	CLEARING **P**	STA	45.000	45.000
0020	201.0120	CLEARING	ID	90.000	90.000
0030	201.0205	GRUBBING **P**	STA	45.000	45.000
0040	201.0220	GRUBBING	ID	90.000	90.000
0050	203.0100	REMOVING SMALL PIPE CULVERTS **P**	EACH	23.000	23.000
0060	203.0200	REMOVING OLD STRUCTURE (STATION) 01. 207+38.28 SP	LS	1.000	1.000
0070	204.0100	REMOVING PAVEMENT **P**	SY	15,500.000	15,500.000
0080	204.0120	REMOVING ASPHALTIC SURFACE MILLING	SY	830.000	830.000
0090	204.0150	REMOVING CURB & GUTTER	LF	1,050.000	1,050.000
0100	204.0155	REMOVING CONCRETE SIDEWALK	SY	25.000	25.000
0110	204.0165	REMOVING GUARDRAIL	LF	2,100.000	2,100.000
0120	204.0170	REMOVING FENCE	LF	270.000	270.000
0130	204.0180	REMOVING DELINEATORS AND MARKERS	EACH	5.000	5.000
0140	204.0190	REMOVING SURFACE DRAINS	EACH	4.000	4.000
0150	204.0195	REMOVING CONCRETE BASES	EACH	9.000	9.000
0160	204.0240	SITE CLEARANCE (PARCEL) 01. NO. 6	LS	1.000	1.000
0170	204.0291.S	ABANDONING SEWER	CY	160.000	160.000
0180	204.9060.S	REMOVING (ITEM DESCRIPTION) 01. ENDWALL (STA. 899+64, 40.9' RT)	EACH	1.000	1.000
0190	205.0100	EXCAVATION COMMON	CY	44,787.000	44,787.000
0200	205.0400	EXCAVATION MARSH	CY	4,950.000	4,950.000
0210	206.1000	EXCAVATION FOR STRUCTURES BRIDGES (STRUCTURE) 01. (B-5-392)	LS	1.000	1.000
0220	206.1000	EXCAVATION FOR STRUCTURES BRIDGES (STRUCTURE) 01. (B-5-728)	LS	1.000	1.000
0230	206.3000	EXCAVATION FOR STRUCTURES RETAINING WALLS (STRUCTURE) 01. (R-5-102)	LS	1.000	1.000
0240	206.5000	COFFERDAMS (STRUCTURE) 01. (B-5-392)	LS	1.000	1.000
0250	206.6000.S	TEMPORARY SHORING	SF	1,795.000	1,795.000
0260	208.0100	BORROW	CY	29,995.000	29,995.000
0270	209.0100	BACKFILL GRANULAR	CY	135.000	135.000
0280	209.0200.S	BACKFILL CONTROLLED LOW STRENGTH	CY	240.000	240.000
0290	210.0100	BACKFILL STRUCTURE	CY	1,660.000	1,660.000
0300	213.0100	FINISHING ROADWAY (PROJECT) 01. 9210-11-71	EACH	1.000	1.000
0310	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	75.000	75.000
0320	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	42,565.000	42,565.000
0330	310.0110	BASE AGGREGATE OPEN GRADED	TON	770.000	770.000
0340	311.0110	BREAKER RUN	TON	15,600.000	15,600.000
0350	312.0115	SELECT CRUSHED MATERIAL	CY	6,450.000	6,450.000
0360	415.1410	CONCRETE PAVEMENT APPROACH SLAB HES	SY	370.000	370.000
0370	416.0508	CONCRETE ROUNDABOUT TRUCK APRON 8-INCH	SY	2,740.000	2,740.000
0380	416.0610	DRILLED TIE BARS	EACH	63.000	63.000
0390	416.1010	CONCRETE SURFACE DRAINS	CY	14.000	14.000
0400	440.4410.S	INCENTIVE IRI RIDE	DOL	5,000.000	5,000.000
0410	455.0115	ASPHALTIC MATERIAL PG64-22	TON	265.000	265.000
0420	455.0120	ASPHALTIC MATERIAL PG64-28	TON	170.000	170.000
0430	455.0605	TACK COAT	GAL	1,850.000	1,850.000
0440	460.1101	HMA PAVEMENT TYPE E-1	TON	1,100.000	1,100.000
0450	460.1110	HMA PAVEMENT TYPE E-10	TON	11,250.000	11,250.000
0460	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	5,000.000	5,000.000
0470	460.4100.S	REHEATING HMA LONGITUDINAL JOINTS	STA	51.000	51.000
0480	465.0105	ASPHALTIC SURFACE	TON	840.000	840.000

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DATE 18JAN12 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	9210-11-71 QUANTITY
0490	465.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	TON	545.000	545.000
0500	465.0125	ASPHALTIC SURFACE TEMPORARY	TON	470.000	470.000
0510	502.0100	CONCRETE MASONRY BRIDGES	CY	1,634.000	1,634.000
0520	502.1100	CONCRETE MASONRY SEAL	CY	254.000	254.000
0530	502.2000	COMPRESSION JOINT SEALER PREFORMED ELASTOMERIC (WIDTH) 01. 4-INCH	LF	62.000	62.000
0540	502.3200	PROTECTIVE SURFACE TREATMENT	SY	1,872.000	1,872.000
0550	502.5010	MASONRY ANCHORS TYPE L NO. 6 BARS	EACH	47.000	47.000
0560	502.5020	MASONRY ANCHORS TYPE L NO. 8 BARS	EACH	33.000	33.000
0570	502.6102	MASONRY ANCHORS TYPE S 1/2-INCH	EACH	32.000	32.000
0580	503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH **P**	LF	1,831.000	1,831.000
0590	505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	53,780.000	53,780.000
0600	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	214,060.000	214,060.000
0610	506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED **P**	EACH	54.000	54.000
0620	506.4000	STEEL DIAPHRAGMS (STRUCTURE) 01. (B-5-392)	EACH	32.000	32.000
0630	509.0301	PREPARATION DECKS TYPE 1	SY	110.000	110.000
0640	509.0302	PREPARATION DECKS TYPE 2	SY	37.000	37.000
0650	509.0500	CLEANING DECKS	SY	326.000	326.000
0660	509.1000	JOINT REPAIR	SY	10.000	10.000
0670	509.1200	CURB REPAIR	LF	208.000	208.000
0680	509.1500	CONCRETE SURFACE REPAIR	SF	60.000	60.000
0690	509.2000	FULL-DEPTH DECK REPAIR	SY	1.000	1.000
0700	509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	16.000	16.000
0710	513.4080	RAILING TUBULAR SPECIAL (STRUCTURE) 01. (B-5-728)	LS	1.000	1.000
0720	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	58.000	58.000
0730	517.1010.S	CONCRETE STAINING (STRUCTURE) 01. (B-5-392)	SF	7,610.000	7,610.000
0740	517.1015.S	CONCRETE STAINING MULTI-COLOR (STRUCTURE) 01. (B-5-392)	SF	4,020.000	4,020.000
0750	517.1015.S	CONCRETE STAINING MULTI-COLOR (STRUCTURE) 02. (R-5-102)	SF	5,960.000	5,960.000
0760	517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE (STRUCTURE) 01. (B-5-728)	LS	1.000	1.000
0770	517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 01. (B-5-728)	LS	1.000	1.000
0780	517.6001.S	PORTABLE DECONTAMINATION FACILITY **P**	EACH	1.000	1.000
0790	520.0130	CULVERT PIPE CLASS III 30-INCH	LF	80.000	80.000
0800	520.1030	APRON ENDWALLS FOR CULVERT PIPE 30-INCH	EACH	2.000	2.000
0810	520.4024	CULVERT PIPE TEMPORARY 24-INCH	LF	270.000	270.000
0820	521.0118	CULVERT PIPE CORRUGATED STEEL 18-INCH	LF	33.000	33.000
0830	521.1018	APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH	EACH	2.000	2.000
0840	522.0115	CULVERT PIPE REINFORCED CONCRETE CLASS III 15-INCH	LF	18.000	18.000
0850	522.0118	CULVERT PIPE REINFORCED CONCRETE CLASS III 18-INCH	LF	224.000	224.000
0860	522.0136	CULVERT PIPE REINFORCED CONCRETE CLASS III 36-INCH	LF	162.000	162.000
0870	522.0142	CULVERT PIPE REINFORCED CONCRETE CLASS III 42-INCH	LF	116.000	116.000

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DATE 18JAN12 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	9210-11-71 QUANTITY
0880	522.1012	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH	EACH	5.000	5.000
0890	522.1015	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH	EACH	2.000	2.000
0900	522.1018	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH	EACH	14.000	14.000
0910	522.1024	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	EACH	5.000	5.000
0920	522.1036	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH	EACH	5.000	5.000
0930	522.1042	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 42-INCH	EACH	2.000	2.000
0940	523.0519	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 19X30-INCH	EACH	1.000	1.000
0950	523.0524	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24X38-INCH	EACH	1.000	1.000
0960	523.0534	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 34X53-INCH	EACH	1.000	1.000
0970	532.0500.S	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH	SF	5,180.000	5,180.000
0980	550.0020.S	PRE-BORING (ROCK)	LF	900.000	900.000
0990	550.0500.S	PILE POINTS	EACH	216.000	216.000
1000	550.1100.S	PILING STEEL HP 10-INCH X 42 LB	LF	4,500.000	4,500.000
1010	601.0105	CONCRETE CURB TYPE A	LF	170.000	170.000
1020	601.0411	CONCRETE CURB & GUTTER 30-INCH TYPE D	LF	12,994.000	12,994.000
1030	601.0417	CONCRETE CURB & GUTTER 30-INCH TYPE K	LF	277.000	277.000
1040	601.0553	CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE D	LF	860.000	860.000
1050	601.0574	CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE G	LF	390.000	390.000
1060	601.0582	CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T	LF	410.000	410.000
1070	601.0600	CONCRETE CURB PEDESTRIAN	LF	125.000	125.000
1080	602.0405	CONCRETE SIDEWALK 4-INCH	SF	19,900.000	19,900.000
1090	602.0515	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA	SF	272.000	272.000
1100	606.0100	RIPRAP LIGHT	CY	31.000	31.000
1110	606.0200	RIPRAP MEDIUM	CY	120.000	120.000
1120	606.0300	RIPRAP HEAVY	CY	1,690.000	1,690.000
1130	608.0312	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH	LF	959.000	959.000
1140	608.0318	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH	LF	843.000	843.000
1150	608.0324	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH	LF	2,707.000	2,707.000
1160	608.0336	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH	LF	382.000	382.000
1170	610.0119	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 19X30-INCH	LF	50.000	50.000
1180	610.0124	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 24X38-INCH	LF	106.000	106.000

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DATE 18JAN12 E S T I M A T E O F Q U A N T I T I E S

LINE 9210-11-71

NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
1190	610.0134	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 34X53-INCH	LF	440.000	440.000
1200	611.0101	CATCH BASINS TYPE 1	EACH	6.000	6.000
1210	611.0201	MANHOLES TYPE 1	EACH	15.000	15.000
1220	611.0210	MANHOLES TYPE 3	EACH	15.000	15.000
1230	611.0303	INLETS TYPE 3	EACH	31.000	31.000
1240	611.0305	INLETS TYPE 8	EACH	9.000	9.000
1250	611.0307	INLETS TYPE 9	EACH	2.000	2.000
1260	611.0420	RECONSTRUCTING MANHOLES	EACH	2.000	2.000
1270	611.0530	MANHOLE COVERS TYPE J	EACH	10.000	10.000
1280	611.0535	MANHOLE COVERS TYPE J-SPECIAL	EACH	4.000	4.000
1290	611.0612	INLET COVERS TYPE C	EACH	2.000	2.000
1300	611.0624	INLET COVERS TYPE H	EACH	41.000	41.000
1310	611.0639	INLET COVERS TYPE H-S	EACH	10.000	10.000
1320	611.0642	INLET COVERS TYPE MS	EACH	22.000	22.000
1330	611.0652	INLET COVERS TYPE T	EACH	2.000	2.000
1340	611.8110	ADJUSTING MANHOLE COVERS	EACH	16.000	16.000
1350	611.8120.S	COVER PLATES TEMPORARY	EACH	12.000	12.000
1360	612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	193.000	193.000
1370	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	3,050.000	3,050.000
1380	612.0806	APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH	EACH	6.000	6.000
1390	614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD **P**	EACH	4.000	4.000
1400	614.0905	CRASH CUSHIONS TEMPORARY	EACH	1.000	1.000
1410	614.2300	MGS GUARDRAIL 3	LF	550.000	550.000
1420	614.2310	MGS GUARDRAIL 3 HS	LF	38.000	38.000
1430	614.2320	MGS GUARDRAIL 3 QS	LF	25.000	25.000
1440	614.2330	MGS GUARDRAIL 3 K	LF	50.000	50.000
1450	614.2500	MGS THRIE BEAM TRANSITION	LF	25.000	25.000
1460	614.2610	MGS GUARDRAIL TERMINAL EAT	EACH	6.000	6.000
1470	616.0206	FENCE CHAIN LINK 6-FT	LF	650.000	650.000
1480	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 9210-11-71	EACH	1.000	1.000
1490	619.1000	MOBILIZATION	EACH	1.000	1.000
1500	620.0300	CONCRETE MEDIAN SLOPED NOSE	SF	515.000	515.000
1510	623.0200	DUST CONTROL SURFACE TREATMENT	SY	39,000.000	39,000.000
1520	624.0100	WATER	MGAL	1,300.000	1,300.000
1530	625.0100	TOPSOIL	SY	48,130.000	48,130.000
1540	625.0105	TOPSOIL	CY	50.000	50.000
1550	625.0500	SALVAGED TOPSOIL	SY	11,700.000	11,700.000
1560	627.0200	MULCHING	SY	65,735.000	65,735.000
1570	628.1504	SILT FENCE	LF	14,700.000	14,700.000
1580	628.1520	SILT FENCE MAINTENANCE	LF	14,700.000	14,700.000
1590	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	35.000	35.000
1600	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	35.000	35.000
1610	628.2004	EROSION MAT CLASS I TYPE B	SY	15,200.000	15,200.000
1620	628.2008	EROSION MAT URBAN CLASS I TYPE B	SY	8,400.000	8,400.000
1630	628.6005	TURBIDITY BARRIERS	SY	725.000	725.000
1640	628.6510	SOIL STABILIZER TYPE B	ACRE	5.500	5.500
1650	628.7005	INLET PROTECTION TYPE A	EACH	18.000	18.000
1660	628.7010	INLET PROTECTION TYPE B	EACH	7.000	7.000
1670	628.7015	INLET PROTECTION TYPE C	EACH	63.000	63.000

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LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	9210-11-71 QUANTITY
1680	628.7555	CULVERT PIPE CHECKS	EACH	180.000	180.000
1690	628.7560	TRACKING PADS	EACH	3.000	3.000
1700	628.7570	ROCK BAGS	EACH	1,300.000	1,300.000
1710	629.0210	FERTILIZER TYPE B	CWT	48.000	48.000
1720	630.0130	SEEDING MIXTURE NO. 30	LB	3.000	3.000
1730	630.0140	SEEDING MIXTURE NO. 40	LB	330.000	330.000
1740	630.0200	SEEDING TEMPORARY	LB	220.000	220.000
1750	631.0300	SOD WATER	MGAL	5.000	5.000
1760	631.1000	SOD LAWN	SY	3,290.000	3,290.000
1770	631.1100	SOD EROSION CONTROL	SY	35.000	35.000
1780	632.0101	TREES (SPECIES, ROOT, SIZE) 01. WHITE PINE	EACH	71.000	71.000
1790	632.0101	TREES (SPECIES, ROOT, SIZE) 02. GREENSPIRE LITTLE LEAF LINDEN	EACH	65.000	65.000
1800	632.0101	TREES (SPECIES, ROOT, SIZE) 03. GREEN MOUNTAIN SUGAR MAPLE	EACH	84.000	84.000
1810	632.0101	TREES (SPECIES, ROOT, SIZE) 04. NORWAY SPRUCE	EACH	54.000	54.000
1820	632.0101	TREES (SPECIES, ROOT, SIZE) 05. RED MAPLE	EACH	67.000	67.000
1830	632.0101	TREES (SPECIES, ROOT, SIZE) 06. SERVICEBERRY	EACH	15.000	15.000
1840	632.0101	TREES (SPECIES, ROOT, SIZE) 07. COCKSPUR HAWTHORN	EACH	9.000	9.000
1850	632.0101	TREES (SPECIES, ROOT, SIZE) 08. WHITESPIRE PAPERBARK BIRCH	EACH	81.000	81.000
1860	632.0101	TREES (SPECIES, ROOT, SIZE) 09. SWAMP WHITE OAK	EACH	33.000	33.000
1870	632.0201	SHRUBS (SPECIES, ROOT, SIZE) 01. FRAGENT SUMAC	EACH	23.000	23.000
1880	632.9101	LANDSCAPE PLANTING SURVEILLANCE AND CARE CYCLES	EACH	24.000	24.000
1890	633.1100	DELINEATORS TEMPORARY	EACH	98.000	98.000
1900	633.5200	MARKERS CULVERT END	EACH	13.000	13.000
1910	634.0612	POSTS WOOD 4X6-INCH X 12-FT	EACH	2.000	2.000
1920	634.0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	59.000	59.000
1930	634.0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	11.000	11.000
1940	634.0622	POSTS WOOD 4X6-INCH X 22-FT	EACH	8.000	8.000
1950	635.0200	SIGN SUPPORTS STRUCTURAL STEEL HS	LB	1,152.000	1,152.000
1960	636.0100	SIGN SUPPORTS CONCRETE MASONRY	CY	2.400	2.400
1970	636.0500	SIGN SUPPORTS STEEL REINFORCEMENT	LB	136.000	136.000
1980	637.0202	SIGNS REFLECTIVE TYPE II	SF	904.000	904.000
1990	638.2602	REMOVING SIGNS TYPE II	EACH	88.000	88.000
2000	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	54.000	54.000
2010	642.5401	FIELD OFFICE TYPE D	EACH	1.000	1.000
2020	643.0100	TRAFFIC CONTROL (PROJECT) 01. 9210-11-71	EACH	1.000	1.000
2030	643.0300	TRAFFIC CONTROL DRUMS	DAY	26,136.000	26,136.000
2040	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	2,680.000	2,680.000
2050	643.0500	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS	EACH	66.000	66.000
2060	643.0600	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES	EACH	66.000	66.000
2070	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	5,360.000	5,360.000
2080	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	2,818.000	2,818.000
2090	643.0900	TRAFFIC CONTROL SIGNS	DAY	9,488.000	9,488.000
2100	643.1050	TRAFFIC CONTROL SIGNS PCMS	DAY	14.000	14.000

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LINE 9210-11-71

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
2110	645.0120	GEOTEXTILE FABRIC TYPE HR	SY	3,012.000	3,012.000
2120	645.0130	GEOTEXTILE FABRIC TYPE R	SY	120.000	120.000
2130	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	23,100.000	23,100.000
2140	646.0126	PAVEMENT MARKING EPOXY 8-INCH	LF	5,550.000	5,550.000
2150	646.0600	REMOVING PAVEMENT MARKINGS	LF	17,815.000	17,815.000
2160	647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	EACH	10.000	10.000
2170	647.0356	PAVEMENT MARKING WORDS EPOXY	EACH	6.000	6.000
2180	647.0456	PAVEMENT MARKING CURB EPOXY	LF	200.000	200.000
2190	647.0506	PAVEMENT MARKING CURB RAMP EPOXY	LF	12.000	12.000
2200	647.0569	PAVEMENT MARKING STOP LINE PREFORMED PLASTIC 18-INCH	LF	60.000	60.000
2210	647.0576	PAVEMENT MARKING STOP LINE EPOXY 24-INCH	LF	99.000	99.000
2220	647.0606	PAVEMENT MARKING ISLAND NOSE EPOXY	EACH	6.000	6.000
2230	647.0716	PAVEMENT MARKING DIAGONAL EPOXY 8-INCH	LF	996.000	996.000
2240	647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	LF	530.000	530.000
2250	647.0746	PAVEMENT MARKING DIAGONAL EPOXY 24-INCH	LF	170.000	170.000
2260	647.0766	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	LF	340.000	340.000
2270	649.0200	TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH	LF	28,900.000	28,900.000
2280	649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	LF	2,900.000	2,900.000
2290	649.1100	TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH	LF	135.000	135.000
2300	649.1200	TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH	LF	35.000	35.000
2310	650.4000	CONSTRUCTION STAKING STORM SEWER	EACH	101.000	101.000
2320	650.4500	CONSTRUCTION STAKING SUBGRADE	LF	9,720.000	9,720.000
2330	650.5000	CONSTRUCTION STAKING BASE	LF	9,720.000	9,720.000
2340	650.5500	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	LF	15,226.000	15,226.000
2350	650.6000	CONSTRUCTION STAKING PIPE CULVERTS	EACH	10.000	10.000
2360	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 9210-11-71	LS	1.000	1.000
2370	650.9920	CONSTRUCTION STAKING SLOPE STAKES	LF	9,720.000	9,720.000
2380	652.0110	CONDUIT RIGID METALLIC 1-INCH	LF	14.000	14.000
2390	652.0210	CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH	LF	765.000	765.000
2400	652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	6,361.000	6,361.000
2410	652.0235	CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	LF	660.000	660.000
2420	652.0325	CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH	LF	90.000	90.000
2430	653.0140	PULL BOXES STEEL 24X42-INCH	EACH	41.000	41.000
2440	653.0905	REMOVING PULL BOXES	EACH	13.000	13.000
2450	654.0105	CONCRETE BASES TYPE 5	EACH	15.000	15.000
2460	654.0200	CONCRETE CONTROL CABINET BASES TYPE 6	EACH	2.000	2.000
2470	654.0220	CONCRETE CONTROL CABINET BASES TYPE 10	EACH	1.000	1.000
2480	655.0610	ELECTRICAL WIRE LIGHTING 12 AWG	LF	6,183.000	6,183.000
2490	655.0615	ELECTRICAL WIRE LIGHTING 10 AWG	LF	8,320.000	8,320.000
2500	655.0620	ELECTRICAL WIRE LIGHTING 8 AWG	LF	18,831.000	18,831.000
2510	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 01. (STH 54 & CTH J/SEMINARY ROAD)	LS	1.000	1.000

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LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	9210-11-71 QUANTITY
2520	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 01. CABINET A (STA 200+45.00SP, 15.0' RT	LS	1.000	1.000
2530	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 02. CABINET B (STA 70+50.00RE, 15.0' RT)	LS	1.000	1.000
2540	657.0255	TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE	EACH	15.000	15.000
2550	657.0322	POLES TYPE 5-ALUMINUM	EACH	15.000	15.000
2560	657.0710	LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 12-FT	EACH	15.000	15.000
2570	659.0115	LUMINAIRES UTILITY HPS 150 WATTS	EACH	5.000	5.000
2580	659.0125	LUMINAIRES UTILITY HPS 250 WATTS	EACH	10.000	10.000
2590	690.0150	SAWING ASPHALT	LF	5,520.000	5,520.000
2600	690.0250	SAWING CONCRETE	LF	21.000	21.000
2610	715.0415	INCENTIVE STRENGTH CONCRETE PAVEMENT	DOL	1,150.000	1,150.000
2620	715.0502	INCENTIVE STRENGTH CONCRETE STRUCTURES	DOL	9,470.000	9,470.000
2630	ASP.1T0A	ON-THE-JOB TRAINING APPRENTICE AT $5. 00/HR	HRS	2,400.000	2,400.000
2640	ASP.1T0G	ON-THE-JOB TRAINING GRADUATE AT $5.00/HR	HRS	3,040.000	3,040.000
2650	SPV.0035	SPECIAL 01. ENGINEERED SOIL	CY	1,150.000	1,150.000
2660	SPV.0035	SPECIAL 02. PLANTING MIX	CY	450.000	450.000
2670	SPV.0060	SPECIAL 01. MANHOLE 96-INCH DIAMETER	EACH	2.000	2.000
2680	SPV.0060	SPECIAL 03. MODIFIED INLET TYPE 10	EACH	3.000	3.000
2690	SPV.0060	SPECIAL 04. PERENNIAL PLANTS SEDUM 'BABY TEARS' 6-INCH POT	EACH	88.000	88.000
2700	SPV.0060	SPECIAL 05. PERENNIAL PLANTS SEDUM 'GREEN ICE' 6-INCH POT	EACH	169.000	169.000
2710	SPV.0060	SPECIAL 06. PERENNIAL PLANTS SEDUM PACHYCLADOS 6-INCH POT	EACH	128.000	128.000
2720	SPV.0060	SPECIAL 07. PERENNIAL PLANTS SIBERIAN IRIS 6-INCH POT	EACH	194.000	194.000
2730	SPV.0060	SPECIAL 08. PERENNIAL PLANTS LITTLE BLUESTEM 1-GAL	EACH	150.000	150.000
2740	SPV.0060	SPECIAL 09. PERENNIAL PLUGS LITTLE BLUESTEM 3-INCH POT	EACH	209.000	209.000
2750	SPV.0060	SPECIAL 10. PERENNIAL PLUGS INDIAN GRASS 3-INCH POT	EACH	104.000	104.000
2760	SPV.0060	SPECIAL 11. PERENNIAL PLUGS VIRGINIA WILD RYE 3-INCH POT	EACH	104.000	104.000
2770	SPV.0060	SPECIAL 12. PERENNIAL PLUGS WILD BERGAMONT 3-INCH POT	EACH	99.000	99.000
2780	SPV.0060	SPECIAL 13. PERENNIAL PLUGS BLUE FLAG IRIS 3-INCH POT	EACH	99.000	99.000
2790	SPV.0060	SPECIAL 14. PERENNIAL PLUGS PRAIRIE BLAZING STAR 3-INCH POT	EACH	99.000	99.000
2800	SPV.0060	SPECIAL 15. PERENNIAL PLUGS BUTTERFLY WEED 3-INCH POT	EACH	99.000	99.000
2810	SPV.0060	SPECIAL 16. PERENNIAL PLUGS PALE PURPLE CONEFLOWER 3-INCH POT	EACH	99.000	99.000
2820	SPV.0060	SPECIAL 17. PERENNIAL PLUGS YELLOW CONEFLOWER 3-INCH POT	EACH	99.000	99.000
2830	SPV.0060	SPECIAL 18. CONSTUCTION STAKING DETENTION POND	EACH	3.000	3.000
2840	SPV.0060	SPECIAL 19. CULVERT PIPE CONCRETE COLLAR SHES	EACH	12.000	12.000
2850	SPV.0060	SPECIAL 20. PRECAST CONCRETE PANEL	EACH	4.000	4.000

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LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	9210-11-71 QUANTITY
2860	SPV.0060	SPECIAL 21. STEEL SWING GATE	EACH	2.000	2.000
2870	SPV.0060	SPECIAL 22. 4-INCH JUNCTION BOX 6-INCH DEPTH CONCRETE EMBEDDABLE	EACH	14.000	14.000
2880	SPV.0060	SPECIAL 23. LIGHTING CONTROL CABINET	EACH	2.000	2.000
2890	SPV.0060	SPECIAL 24. PATHWAY LIGHTING UNITS TYPE A	EACH	57.000	57.000
2900	SPV.0060	SPECIAL 25. PATHWAY CONCRETE LIGHT POLE BASE TYPE A	EACH	57.000	57.000
2910	SPV.0060	SPECIAL 26. LIGHTING UNITS TYPE B	EACH	6.000	6.000
2920	SPV.0060	SPECIAL 27. LIGHTING UNITS TYPE C	EACH	4.000	4.000
2930	SPV.0060	SPECIAL 28. LIGHTING UNITS TYPE D	EACH	4.000	4.000
2940	SPV.0085	SPECIAL 01. SPECIAL LOW MAINTENANCE SEED MIX	LB	2,365.000	2,365.000
2950	SPV.0085	SPECIAL 02. SPECIAL WET MEADOW SEED MIX	LB	70.000	70.000
2960	SPV.0090	SPECIAL 01. FENCE CHAIN LINK VINYL COATED 6-FOOT	LF	565.000	565.000
2970	SPV.0105	SPECIAL 01. CONSTRUCTION STAKING CENTRAL ISLAND LANDSCAPING SEMINARY ROAD	LS	1.000	1.000
2980	SPV.0105	SPECIAL 02. TUBULAR RAILING	LS	1.000	1.000
2990	SPV.0105	SPECIAL 03. SALVAGE TRAFFIC SIGNALS	LS	1.000	1.000
3000	SPV.0120	SPECIAL 01. WATER	MGAL	498.000	498.000
3010	SPV.0165	SPECIAL 01. MULCH SHREDDED BARK	SF	1,350.000	1,350.000
3020	SPV.0165	SPECIAL 02. COLORED AND STAMPED CONCRETE SIDEWALK 4-INCH SIDEWALK	SF	2,030.000	2,030.000
3030	SPV.0165	SPECIAL 03. COLORED CONCRETE SIDEWALK 5-INCH **P**	SF	5,584.000	5,584.000
3040	SPV.0165	SPECIAL 04. STONE VENEER SEALER	SF	2,195.000	2,195.000
3050	SPV.0165	SPECIAL 05. STONE VENEER 4-INCH	SF	2,195.000	2,195.000
3060	SPV.0165	SPECIAL 06. ARCHITECTURAL SURFACE TREATMENT (STONE PATTERN)	SF	1,720.000	1,720.000
3070	SPV.0165	SPECIAL 07. ARCHITECTURAL SURFACE TREATMENT (BRIDGE CSD)	SF	2,300.000	2,300.000
3080	SPV.0165	SPECIAL 08. ARCHITECTURAL SURFACE TREATMENT (RETAINING WALL CSD)	SF	3,410.000	3,410.000
3090	SPV.0165	SPECIAL 09. TRENCH INSULATION	SF	128.000	128.000
3100	SPV.0180	SPECIAL 01. COLORED CONCRETE PAVEMENT 12-INCH **P**	SY	305.000	305.000
3110	SPV.0180	SPECIAL 03. 6" CELLULAR ARTICULATED CONCRETE BLOCK MATTRESS	SY	480.000	480.000

CLEARING AND GRUBBING

CATEGORY	STAGE	STATION	-	STATION	LOCATION	201.0105 **P** CLEARING (STA)	201.0205 **P** GRUBBING (STA)	201.0120 CLEARING (ID)	201.0220 GRUBBING (ID)	REMARKS
0020										
	1	1110+00	-	1113+00	RT	3	3			
	2	1086+00	-	1088+00	LT	2	2			
	2	1089+00	-	1090+00	LT	1	1			
	2	1091+00	-	1094+00	LT	3	3			
	2	1094+00	-	1095+00	LT/RT	1	1			
	2	1095+00	-	1097+00	RT	2	2			
	2	1097+00	-	1104+00	LT/RT	7	7			
	2	1104+00	-	1105+00	LT	1	1			
	2	1105+00	-	1106+00	LT/RT	1	1			
	2	1106+00	-	1108+00	LT	2	2			
	2	1109+00	-	1110+00	LT	1	1			
	3	1087+00	-	1088+00	RT					QUANTITY SHOWN ELSEWHERE IN THE TABLE
	3	1088+00	-	1089+00	RT	1	1			
	3	1089+00	-	1090+00	RT					QUANTITY SHOWN ELSEWHERE IN THE TABLE
	3	1090+00	-	1091+00	RT	1	1			
	3	1091+00	-	1092+00	RT					QUANTITY SHOWN ELSEWHERE IN THE TABLE
	3	1106+00	-	1108+00	RT					QUANTITY SHOWN ELSEWHERE IN THE TABLE
	3	1108+00	-	1109+00	RT	1	1			
	3	1109+00	-	1110+00	RT					QUANTITY SHOWN ELSEWHERE IN THE TABLE
	3	16+00	-	18+00	LT	2	2			
	3	18+23UW			RT			15	15	
	3	20+85UW			LT			15	15	
	1	30+82ES			RT			15	15	
	1	31+28ES			RT			15	15	
	1	31+59ES			RT			15	15	
	1	31+76ES			LT			15	15	
	1	904+00	-	908+00	RT	4	4			
	1	909+00	-	910+00	RT	1	1			
	2	899+00	-	910+00	LT	11	11			
					TOTAL	45	45	90	90	

REMOVING CONCRETE BASES

CATEGORY	STAGE	LOCATION	204.0195 REMOVING CONCRETE BASES (EA)
0020			
	2	STH 54/SEMINARY ROAD	9
		TOTAL	9

SITE CLEARANCE (PARCEL)

CATEGORY	STAGE	STATION	-	STATION	LOCATION	204.0240 (LS)
0020						
	2	1103+70	-	1104+70	PARCEL 6, LT/RT	1
					TOTAL	1

REMOVING ENDWALL

CATEGORY	STAGE	STATION	-	STATION	LOCATION	204.9060.S (EACH)
0020						
	1	899+64			40.9 RT	1
					TOTAL	1

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REMOVING SMALL PIPE CULVERTS

CATEGORY	STAGE	STATION	LOCATION	203.0100 **P** REMOVING SMALL PIPE CULVERTS (EACH)	REMARKS
0020					
	1	1087+05	RT	1	
	2,3	1090+11	RT/LT	1	24-IN CONC
	2	1101+50	LT	1	18-IN CMP
	2	1102+90	RT	1	18-IN CMP
	2	1104+15	RT	1	18-IN CONC
	2	1104+75	RT	1	18-IN CMP
	2	1105+50	RT	1	18-IN CMP
	2	1106+90	RT	1	18-IN CONC
	2	1108+80	LT	1	18-IN CMP
	2	1109+95	LT	1	18-IN CMP
	2	1110+70	LT	1	18-IN CMP
	2	1112+00	LT	1	18-IN CMP
	3	1107+90	RT	1	18-IN CMP
	3	1108+50	RT	1	18-IN CMP
	3	21+45UW	RT/LT	1	24-IN CMP
	4	41+50AS	RT/LT	1	24-IN CMP
	4	42+25AS	RT/LT	1	18-IN CMP
	3	21+77UE	RT/LT	1	24-IN CMP
	1	23+46UE	RT/LT	1	24-IN CMP
	2	888+00	LT	1	18-IN CMP
	2	892+90	LT	1	18-IN CMP
	2	898+50	LT	1	12-IN CMP
	2	16+70	LT	1	12-IN CMP
			TOTAL	23	

REMOVING PAVEMENT

CATEGORY	STAGE	STATION - STATION	LOCATION	204.0100 REMOVING PAVEMENT (SY)
0020				
	2	886+50 - 894+50	STH 54 - WEST LEG	2050
	2	894+50 - 897+00	STH 54 - ROUNDABOUT	1100
	2	897+00 - 910+00	STH 54 - WEST LEG	3100
	2	16+00 - 20+30	SEMINARY RD - SOUTH LEG	1900
	3	886+50 - 894+50	STH 54 - WEST LEG	2050
	3	894+50 - 897+00	STH 54 - ROUNDABOUT	1100
	3	897+00 - 910+00	STH 54 - WEST LEG	3100
	3	11+00 - 14+00	SEMINARY RD - SOUTH LEG	1100
			TOTAL	15500

REMOVING SURFACE DRAINS

CATEGORY	STAGE	STATION - STATION	LOCATION	204.0190 (EACH)
0020				
	1	1112+98	RT	1
	2	1112+98	LT	1
	3	18+35UW - 18+80UW	RT	1
	2	895+50	LT	1
			TOTAL	4

REMOVING ITEMS

CATEGORY	STAGE	STATION - STATION	LOCATION	204.0120 REMOVING ASPHALTIC SURFACE MILLING (SY)	204.0150 REMOVING CURB & GUTTER (LF)	204.0155 REMOVING CONCRETE SIDEWALK (SY)	204.0165 REMOVING GUARDRAIL (LF)	204.0170 REMOVING FENCE (LF)	REMARKS
0020									
	3	16+50UW - 18+35UW	RT		190				
	3	17+76UW - 18+11UW	RT			15			
	2	21+40UW - 21+68UW	RT		30				
	2,3	1089+33 - 1090+38	LT		120				
	4	1087+80 - 1088+22	LT	114					4" DEPTH
	4	1090+00 - 1090+42	LT	114					4" DEPTH
	4	1090+00 - 1095+00	LT	167					4" DEPTH
	1	1112+98 - 1113+50	RT		55				
	2	1112+98 - 1113+50	LT		55				
	3	21+40UE - 21+75UE	RT		70				
	1	21+62UE - 21+77UE	LT		40				
	1	21+97UE - 22+47UE	LT		75				
	4	1098+01 - 1098+11	RT/LT	80					4" DEPTH
	4	1100+79 - 1100+89	RT/LT	80					4" DEPTH
	4	1105+00 - 1112+50	LT	275					4" DEPTH
	1	30+20ES - 30+41ES	RT		25				
	1	30+20ES - 30+39ES	LT		20				
	1	30+26ES - 30+55ES	LT			10			
	1	30+43ES - 31+95ES	RT/LT					270	
	4	40+16AS - 40+37AS	RT		25				
	4	39+82AS - 40+88AS	LT		110				
	1	1090+71 - 1093+25	RT				270		
	3	1093+25 - 206+86SP	RT				440		
	3	205+17SP - 206+86SP	LT				180		
	3	207+90SP - 209+96SP	RT				210		
	3	207+90SP - 209+33SP	LT				150		
	3	22+50UE - 23+50UE	LT				100		
	3	894+85 - 895+27	RT		50				
	1	895+19 - 895+64	LT		65				
	3	895+74 - 896+10	RT		60				
	1	896+07 - 896+48	LT		60				
	2	900+50 - 904+40	LT				390		
	1	903+90 - 907+50	RT				360		
			TOTAL	830	1050	25	2100	270	

REMOVING DELINEATORS AND MARKERS

CATEGORY	STATION - STATION	LOCATION	204.0180 (EACH)
0020			
	1086+61 - 1112+98	RT/LT	5
		TOTAL	5

ABANDONING SEWER

CATEGORY	STAGE	STATION - STATION	LOCATION	204.0291.S ABANDONING SEWER (CY)	209.0200.S BACKFILL CONTROLLED LOW STRENGTH (CY)
0020					
	1	902+75 - 906+65	STH 54 - EAST LEG	160	240
			TOTAL	160	240

3

REMOVING SMALL PIPE CULVERTS

CATEGORY	STAGE	STATION	LOCATION	203.0100 **P** REMOVING SMALL PIPE CULVERTS (EACH)	REMARKS
0020					
	1	1087+05	RT	1	
	2,3	1090+11	RT/LT	1	24-IN CONC
	2	1101+50	LT	1	18-IN CMP
	2	1102+90	RT	1	18-IN CMP
	2	1104+15	RT	1	18-IN CONC
	2	1104+75	RT	1	18-IN CMP
	2	1105+50	RT	1	18-IN CMP
	2	1106+90	RT	1	18-IN CONC
	2	1108+80	LT	1	18-IN CMP
	2	1109+95	LT	1	18-IN CMP
	2	1110+70	LT	1	18-IN CMP
	2	1112+00	LT	1	18-IN CMP
	3	1107+90	RT	1	18-IN CMP
	3	1108+50	RT	1	18-IN CMP
	3	21+45UW	RT/LT	1	24-IN CMP
	4	41+50AS	RT/LT	1	24-IN CMP
	4	42+25AS	RT/LT	1	18-IN CMP
	3	21+77UE	RT/LT	1	24-IN CMP
	1	23+46UE	RT/LT	1	24-IN CMP
	2	888+00	LT	1	18-IN CMP
	2	892+90	LT	1	18-IN CMP
	2	898+50	LT	1	12-IN CMP
	2	16+70	LT	1	12-IN CMP
			TOTAL	23	

REMOVING PAVEMENT

CATEGORY	STAGE	STATION	-	STATION	LOCATION	204.0100 REMOVING PAVEMENT (SY)
0020						
	3	1086+61.23	-	1092+75	STH 54	1970
	3	202+00SP	-	213+00SP	STH 54	3070
	3	1104+00	-	1108+50	STH 54	1520
	2,3	1108+50	-	1112+98	STH 54	1190
					TOTAL	7750

REMOVING SURFACE DRAINS

CATEGORY	STAGE	STATION	-	STATION	LOCATION	204.0190 (EACH)
0020						
	1	1112+98			RT	1
	2	1112+98			LT	1
	3	18+35UW	-	18+80UW	RT	1
	2	895+50			LT	1
					TOTAL	4

REMOVING ITEMS

CATEGORY	STAGE	STATION	-	STATION	LOCATION	204.011 REMOVING ASPHALTIC SURFACE (SY)	204.0120 REMOVING ASPHALTIC SURFACE MILLING (SY)	204.0150 REMOVING CURB & GUTTER (LF)	204.0155 REMOVING CONCRETE SIDEWALK (SY)	204.0165 REMOVING GUARDRAIL (LF)	204.0170 REMOVING FENCE (LF)	REMARKS
0020												
	2	886+00	-	894+50	RT/LT	3210						
	2	894+50	-	897+00	RT/LT	1510						
	2	897+00	-	910+00	RT/LT	3800						
	2	16+00	-	20+30	RT/LT	1840						
	3	886+00	-	894+50	RT/LT	3260						
	3	894+50	-	897+00	RT/LT	1400						
	3	897+00	-	910+00	RT/LT	4010						
	3	11+00	-	14+00	RT/LT	1220						
	4	886+00	-	894+50	RT/LT	850						
	4	894+50	-	897+00	RT/LT	420						
	4	897+00	-	910+00	RT/LT	1380						
	3	16+50UW	-	18+35UW	RT			190				
	3	17+76UW	-	18+11UW	RT				15			
	2	21+40UW	-	21+68UW	RT			30				
	2,3	1089+33	-	1090+38	LT			120				
	4	1087+80	-	1088+22	LT		114					4" DEPTH
	4	1090+00	-	1090+42	LT		114					4" DEPTH
	4	1090+00	-	1095+00	LT		167					4" DEPTH
	1	1112+98	-	1113+50	RT			55				
	2	1112+98	-	1113+50	LT			55				
	3	21+40UE	-	21+75UE	RT			70				
	1	21+62UE	-	21+77UE	LT			40				
	1	21+97UE	-	22+47UE	LT			75				
	4	1098+01	-	1098+11	RT/LT		80					4" DEPTH
	4	1100+79	-	1100+89	RT/LT		80					4" DEPTH
	4	1105+00		1112+50	LT		275					4" DEPTH
	1	30+20ES	-	30+41ES	RT			25				
	1	30+20ES	-	30+39ES	LT			20				
	1	30+26ES	-	30+55ES	LT				10			
	1	30+43ES	-	31+95ES	RT/LT						270	
	4	40+16AS	-	40+37AS	RT			25				
	4	39+82AS	-	40+88AS	LT			110				
	1	1090+71	-	1093+25	RT					270		
	3	1093+25	-	206+86SP	RT					440		
	3	205+17SP	-	206+86SP	LT					180		
	3	207+90SP	-	209+96SP	RT					210		
	3	207+90SP	-	209+33SP	LT					150		
	3	22+50UE	-	23+50UE	LT					100		
	3	894+85	-	895+27	RT			50				
	1	895+19	-	895+64	LT			65				
	3	895+74	-	896+10	RT			60				
	1	896+07	-	896+48	LT			60				
	2	900+50	-	904+40	LT					390		
	1	903+90	-	907+50	RT					360		
					TOTAL	22900	830	1050	25	2100	270	

REMOVING DELINEATORS AND MARKERS

CATEGORY	STATION	-	STATION	LOCATION	204.0180 (EACH)
0020					
	1086+61	-	1112+98	RT/LT	5
				TOTAL	5

Addendum No. 2
ID 9210-11-71
Revised Sheet 164
March 5. 2012

ABANDONING SEWER

CATEGORY	STAGE	STATION	-	STATION	LOCATION	204.0291.S ABANDONING SEWER (CY)	209.0200.S BACKFILL CONTROLLED LOW STRENGTH (CY)
0020							
	1	902+75	-	906+65	STH 54 - EAST LEG	160	240
					TOTAL	160	240

EARTHWORK SUMMARY

CATEGORY	ID	STATION		STATION	LOCATION	205.0100 EXCAVATION COMMON (1) CUT FROM EW DATA (CY)	205.0400 EXCAVATION MARSH (2) EBS (CY)	(2A) SALVAGED/ UNUSABLE PAVEMENT MATERIAL (CY)	(3) REDUCED EBS IN FILL FACTOR = 0.8 (CY)	312.0115 SELECT CRUSHED MATERIAL (4) EXPANDED EBS BACKFILL FACTOR = 1.3 (CY)	(5) EXPANDED FILL FROM EW DATA (CY)	(6) EXPANDED FILL (CY)	(7) MASS ORDINATE (CY)	208.0100 BORROW (8) BORROW (CY)	WASTE (CY)	REMARKS
	9210-11-71	STAGE 1														
020		1086+61.41	-	1092+00	STH 54 TEMP. WIDENING	261					150	150	111			
		1107+75	-	1113+00	STH 54 TEMP. WIDENING	385					119	119	266			
		22+25	-	24+00	EAST SERVICE ROAD	543		52			169	169	322			
		30+00	-	32+00	ELM STREET	246					152	152	94			
		STAGE 1 SUBTOTAL				1435		52			590	590	793			
		STAGE 2														
020		1086+61.41	-	1089+22	STH 54	527		40			31	31	456			
		1090+00	-	1094+00	STH 54	958	500	60	400	650	2098	2348	-1450			
		1094+00	-	1098+42.94	STH 54	329	3610	131	2888	4693	26260	28065	-27867			
		1100+49.04	-	1105+75	STH 54	2043	840	156	672	1092	4900	5320	-3433			
		1105+75	-	1113+00	STH 54	1841		110			434	434	1297			
		20+24	-	20+65	EAST SERVICE ROAD	343		12			4	4	327			
090		70+00	-	75+50	EAST SHARED PATH	2246					770	770	1476			
020		19+50	-	21+00	WEST POND	610					140	140	470			
		1095+50	-	1097+70	NORTH POND	353					9	9	344			
		886+50	-	894+50	STH 54	2437		502			1120	1120	815			
		894+50	-	897+00	STH 54	692		270			205	205	217			
		897+00	-	910+00	STH 54	2624		687			3722	3722	-1785			
		16+00	-	20+30	SEMINARY RD	2173		105			38	38	2030			
		STAGE 2 SUBTOTAL				17176	4950	2073	3960	6435	39731	42206	-27103	26310		STAGE 2 BORROW - STAGE 1 WASTE
		STAGE 3														
020		1086+61.41	-	1094+00	STH 54	1503		110			1600	1600	13			
		1105+75	-	1113+00	STH 54	4200		110			882	882	3428			
		16+50	-	21+85	WEST SERVICE ROAD	2935		187			577	577	2545			
		20+65	-	22+25	EAST SERVICE ROAD	769		47			123	123	693			
		1104+50	-	1107+50	EAST POND	3953					20	20	3933			
		886+50	-	894+50	STH 54	2437		502			1120	1120	1819			
		894+50	-	897+00	STH 54	692		270			205	205	757			
		897+00	-	910+00	STH 54	2623		687			3722	3722	-412			
		11+00	-	14+00	SEMINARY RD	1964		105			1	1	2068			
		STAGE 3 SUBTOTAL				21076		2018			8250	8250	14844			
		STAGE 4														
020		1094+00	-	1098+42.94	STH 54	336		66			6	6	264			
		40+00	-	43+30	ARTLEY STREET	210		50			568	568	-408			
090		208+00	-	214+50	SOUTH SHARED PATH	1599					938	938	661			
		STAGE 4 SUBTOTAL				2145		116			1512	1512	517		15361	STAGE 3 WASTE + STAGE 4 WASTE
020						38000	4950	4259	3960	6435	48375	50850	-13086	25640	13925	
090						3850					1708	1708	2137	660	1475	
		PROJECT			TOTAL	41850	4950	4259	3960	6450	50083	52558	-10949	26300	15400	

(1) COMMON FROM COMPUTER EARTHWORK DATA, INCLUDES PAVEMENT REMOVAL(CONTAINS SALVAGED/UNUSABLE PAVEMENT MATERIAL)
(2) UNDISTRIBUTED EBS
EBS AREAS TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL
EBS IS ESTIMATED AS AN UNDISTRIBUTED QUANTITY
EBS QUANTITIES ARE USED IN EARTHWORK BALANCE
(2A) SALVAGED/UNUSABLE PAVEMENT MATERIAL
(3) REDUCED EBS IN FILL - EXCAVATED EBS MATERIAL IS USABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.8
(4) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL
(5) EXPANDED FILL FROM COMPUTER EARTHWORK DATA
(6) EXPANDED FILL. FACTOR = 1.3
EXPANDED FILL = EW DATA FILL - REDUCED EBS IN FILL
(7) MASS ORDINATE IS + OR - QUANTITY FOR STAGE . PLUS IS EXCESS, MINUS IS SHORTAGE.
(8) BORROW TO BE OBTAINED FROM LOCATION OF CONTRACTOR'S CHOICE.

EARTHWORK SUMMARY

CATEGORY	ID	STATION	-	STATION	LOCATION	205.0100 EXCAVATION COMMON (1) CUT FROM EW DATA (CY)	205.0400 EXCAVATION MARSH (2) EBS (CY)	(2A) SALVAGED/ UNUSABLE PAVEMENT MATERIAL (CY)	(3) REDUCED EBS IN FILL FACTOR = 0.8 (CY)	312.0115 SELECT CRUSHED MATERIAL (4) EXPANDED EBS BACKFILL FACTOR = 1.3 (CY)	(5) EXPANDED FILL FROM EW DATA (CY)	(6) EXPANDED FILL (CY)	(7) MASS ORDINATE (CY)	208.0100 BORROW (8) BORROW (CY)	WASTE (CY)	REMARKS
	9210-11-71	STAGE 1														
020		882+00	-	910+00	STH 54 TEMP. WIDENING	4151					8427	8427	-4276			
		1086+61.41	-	1092+00	STH 54 TEMP. WIDENING	261					150	150	111			
		1107+75	-	1113+00	STH 54 TEMP. WIDENING	385					119	119	266			
		22+25	-	24+00	EAST SERVICE ROAD	543		52			169	169	322			
		30+00	-	32+00	ELM STREET	246					152	152	94			
		STAGE 1 SUBTOTAL				5586		52			9017	9017	-3483	3483		
		STAGE 2														
020		1086+61.41	-	1089+22	STH 54	527		40			31	31	456			
		1090+00	-	1094+00	STH 54	958	500	60	400	650	2098	2348	-1450			
		1094+00	-	1098+42.94	STH 54	329	3610	131	2888	4693	26260	28065	-27867			
		1100+49.04	-	1105+75	STH 54	2043	840	156	672	1092	4900	5320	-3433			
		1105+75	-	1113+00	STH 54	1841		110			434	434	1297			
		20+24	-	20+65	EAST SERVICE ROAD	343		12			4	4	327			
090		70+00	-	75+50	EAST SHARED PATH	2246					770	770	1476			
020		19+50	-	21+00	WEST POND	610					140	140	470			
		1095+50	-	1097+70	NORTH POND	353					9	9	344			
		882+00	-	894+50	STH 54	1056		172			1601	1601	-717			
		894+50	-	897+00	STH 54	488		54			740	740	-306			
		897+00	-	910+00	STH 54	1233		280			3937	3937	-2984			
		16+00	-	20+30	SEMINARY RD	2145		105			34	34	2006			
		STAGE 2 SUBTOTAL				14172	4950	1120	3960	6435	40958	43433	-30381	30381		
		STAGE 3														
020		1086+61.41	-	1094+00	STH 54	1503		110			1600	1600	13			
		1105+75	-	1113+00	STH 54	4200		110			882	882	3428			
		16+50	-	21+85	WEST SERVICE ROAD	2935		187			577	577	2545			
		20+65	-	22+25	EAST SERVICE ROAD	769		47			123	123	693			
		1104+50	-	1107+50	EAST POND	3953					20	20	3933			
		882+00	-	894+50	STH 54	7670		475			337	337	7808			
		894+50	-	897+00	STH 54	2879		149			897	897	2131			
		897+00	-	910+00	STH 54	8628		772			1663	1663	7737			
		11+00	-	14+00	SEMINARY RD	1965		59			1	1	2023			
		STAGE 3 SUBTOTAL				34502		1909			6100	6100	30311		30311	
		STAGE 4														
020		1094+00	-	1098+42.94	STH 54	336		66			6	6	264			
		40+00	-	43+30	ARTLEY STREET	210		50			568	568	-408			
090		208+00	-	214+50	SOUTH SHARED PATH	1599					938	938	661			
		STAGE 4 SUBTOTAL				2145		116			1512	1512	517		517	
020						52600	4950	3197	3960	6450	55879	58354	-5173	33900	30800	
090						3850					1708	1708	2137			
		PROJECT			TOTAL	56450	4950	3197	3960	6450	57587	60062	-3036	33900	30800	

(1) COMMON FROM COMPUTER EARTHWORK DATA, INCLUDES PAVEMENT REMOVAL(CONTAINS SALVAGED/UNUSABLE PAVEMENT MATERIAL)
(2) UNDISTRIBUTED EBS
EBS AREAS TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL
EBS IS ESTIMATED AS AN UNDISTRIBUTED QUANTITY
EBS QUANTITIES ARE USED IN EARTHWORK BALANCE
(2A) SALVAGED/UNUSABLE PAVEMENT MATERIAL
(3) REDUCED EBS IN FILL - EXCAVATED EBS MATERIAL IS USABLE IN FILLS OUTSIDE THE 1:1 SLOPE. EBS IN FILL REDUCTION FACTOR = 0.8
(4) EXPANDED EBS BACKFILL - THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL
(5) EXPANDED FILL FROM COMPUTER EARTHWORK DATA
(6) EXPANDED FILL. FACTOR = 1.3
EXPANDED FILL = EW DATA FILL - REDUCED EBS IN FILL
(7) MASS ORDINATE IS + OR - QUANTITY FOR STAGE . PLUS IS EXCESS, MINUS IS SHORTAGE.
(8) BORROW TO BE OBTAINED FROM LOCATION OF CONTRACTOR'S CHOICE.

Addendum No. 2
ID 9210-11-71
Revised Sheet 165
March 5, 2012

TEMPORARY SHORING

CATEGORY	STAGE	STATION	-	STATION	LOCATION	206.6000.S TEMPORARY SHORING (SF)	REMARKS
0020							
	2	1092+42	-	1092+95	LT	425	PROVIDE FOR PRIVATE POND OUTLET TO PROPOSED STORM SEWER
					TOTAL	425	

BACKFILL GRANULAR

CATEGORY	STAGE	STATION	-	STATION	LOCATION	209.0100 (CY)
0020						
	3	1107+75			RT	7
	4	41+69AS			RT/LT	24
	4	42+26AS			RT/LT	14
0090	3	70+40RE			RT/LT	10
	2	1095+24	-	1095+55	RT	15
	2	1101+29	-	1101+65	LT	55
	3	1104+84	-	1104+94	RT	5
	3	1106+05	-	1106+32	RT	5
0020					TOTAL	45
0090					TOTAL	90
					TOTAL	135

FINISHING ROADWAY (PROJECT)

CATEGORY	STATION	-	STATION	LOCATION	213.0100 (EACH)
0020					
	886+00	-	1112+98	RT/LT	1
				TOTAL	1

BASE AGGREGATE OPEN GRADED

CATEGORY	STAGE	STATION	-	STATION	LOCATION	310.0110 (TON)
0090						
		1087+62	-	1095+11	RT	292
		1095+48	-	1097+29	RT	72
		1095+67	-	1097+81	RT	85
		1096+74	-	1098+62	LT	79
		1097+78	-	1097+88	LT	28
		1101+81	-	1105+26	LT	95
		1096+35	-	1096+75	LT	38
					TOTAL	770

BREAKER RUN

CATEGORY	STAGE	STATION	-	STATION	LOCATION	311.0110 (TON)
0020						
	1	30+00ES	-	32+24ES	RT/LT	680
	1	22+25UE	-	24+00UE	RT/LT	515
	3	21+17UE	-	21+90UE	RT	120
	2	20+27UE	-	20+65UE	RT/LT	250
	3	16+50UW	-	21+90UW	RT/LT	1550
EBS	3	20+65UE	-	22+25UE	RT/LT	575
	2	1092+00	-	1103+00	LT	5205
	2	1092+00	-	1103+00	LT	5205
	3	894+50	-	896+75	RT	750
		894+50	-	896+75	RT	750
					TOTAL	15600

BASE AGGREGATE DENSE

CATEGORY	STAGE	STATION	-	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH (TON)	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH (TON)	
0020								
	1	1086+61	-	1093+50	RT	28	500	
		1106+50	-	1113+50	RT	30	540	
		30+00ES	-	32+24ES	RT/LT		340	
		21+75UE	-	24+00UE	RT/LT		335	
	2	1086+61	-	1089+22	LT	10	855	INCLUDES TEMP. WIDENING
		1090+00	-	1094+00	LT		1405	
		1094+00	-	1097+42	RT/LT		2405	
		1097+42	-	1098+42	RT/LT		722	
		1100+50	-	1101+50	RT/LT		722	
		1101+50	-	1105+75	RT/LT		2985	
		1105+75	-	1112+50	LT		2370	
		1112+50	-	1113+50	LT	7	185	INCLUDES TEMP. WIDENING
		21+17UW	-	21+90UW	RT		85	RAMP TO EXISTING PAVEMENT
		20+27UE	-	20+65UE	RT/LT		125	
0020		886+00	-	894+50	RT/LT		2725	
		894+50	-	896+75	RT/LT		1345	
		896+75	-	910+00	RT/LT		3456	
		16+00	-	20+35	RT/LT		2228	
0090		112+88.94NP	-	122+86NP	RT/LT		550	
		50+15RU	-	57+93RU	RT/LT		425	
		70+15RE	-	75+96RE	RT/LT		325	
		80+07EP	-	83+86EP	RT/LT		210	
0020	3	1086+61	-	1088+25	RT		510	
		1088+25	-	1094+00	RT		2020	
		1105+75	-	1112+50	RT		2370	
		1112+50	-	1112+98	RT		165	
		16+50UW	-	21+90UW	RT/LT		782	
0090		195+79SP	-	196+79SP	RT/LT		40	
		196+79SP	-	206+88SP	RT/LT		560	
		207+89SP	-	214+48SP	RT/LT		370	
		50+07RU	-	50+15RU	RT/LT		10	
		70+07RE	-	70+15RE	RT/LT		10	
0020		886+00	-	894+50	RT/LT		2721	
		894+50	-	896+75	RT/LT		1341	
		896+75	-	910+00	RT/LT		3455	
		11+00	-	14+00	RT/LT		1328	
0020	4	1089+22	-	1090+00	LT		260	
		39+82AS	-	43+21AS	RT/LT		170	
		DRIVEWAYS			RT/LT		1070	
		SIDEWALKS			RT/LT		140	
		TEMPORARY ACCESS			RT/LT		100	
		UNDISTRIBUTED			RT/LT		200	
0020					TOTAL	75	39960	
0090					TOTAL	0	2500	
					TOTAL	75	42460	

TEMPORARY SHORING

CATEGORY	STAGE	STATION - STATION	LOCATION	206.6000.S TEMPORARY SHORING (SF)	REMARKS
0020					
	2	1092+42 - 1092+95	LT	425	PROVIDE FOR PRIVATE POND OUTLET TO PROPOSED STORM SEWER
			TOTAL	425	

BACKFILL GRANULAR

CATEGORY	STAGE	STATION - STATION	LOCATION	209.0100 (CY)
0020				
	3	1107+75	RT	7
	4	41+69AS	RT/LT	24
	4	42+26AS	RT/LT	14
0090	3	70+40RE	RT/LT	10
	2	1095+24 - 1095+55	RT	15
	2	1101+29 - 1101+65	LT	55
	3	1104+84 - 1104+94	RT	5
	3	1106+05 - 1106+32	RT	5
0020			TOTAL	45
0090			TOTAL	90
			TOTAL	135

FINISHING ROADWAY (PROJECT)

CATEGORY	STATION - STATION	LOCATION	213.0100 (EACH)
0020			
	886+00 - 1112+98	RT/LT	1
		TOTAL	1

BASE AGGREGATE OPEN GRADED

CATEGORY	STAGE	STATION - STATION	LOCATION	310.0110 (TON)
0090				
		1087+62 - 1095+11	RT	292
		1095+48 - 1097+29	RT	72
		1095+67 - 1097+81	RT	85
		1096+74 - 1098+62	LT	79
		1097+78 - 1097+88	LT	28
		1101+81 - 1105+26	LT	95
		1096+35 - 1096+75	LT	38
			TOTAL	770

BREAKER RUN

CATEGORY	STAGE	STATION - STATION	LOCATION	311.0110 (TON)
0020				
	1	894+50 - 897+00	RT/LT	484
	1	30+00ES - 32+24ES	RT/LT	680
	1	22+25UE - 24+00UE	RT/LT	520
	2	894+50 - 897+00	RT/LT	810
	3	21+17UE - 21+90UE	RT	120
	2	20+27UE - 20+65UE	RT/LT	250
	3	894+50 - 897+00	RT/LT	586
	3	16+50UW - 21+90UW	RT/LT	1550
	3	20+65UE - 22+25UE	RT/LT	580
	3	11+00 - 13+53	LT/RT	609
	2	16+00 - 20+30	LT/RT	1211
			TOTAL	7400

BASE AGGREGATE DENSE

CATEGORY	STAGE	STATION - STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH (TON)	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH (TON)	
0020						
	1	886+50 - 910+00	RT		5530	INCLUDES TEMP. WIDENING
		1086+61 - 1093+50	RT	28	500	
		1106+50 - 1113+50	RT	30	540	
		30+00ES - 32+24ES	RT/LT		340	
		21+75UE - 24+00UE	RT/LT		335	
	2	886+50 - 894+50	LT		3380	INCLUDES TEMP. WIDENING
		894+50 - 897+00	LT		1490	INCLUDES TEMP. WIDENING
		897+00 - 910+00	LT		5030	INCLUDES TEMP. WIDENING
		16+00 - 20+30	RT/LT		820	INCLUDES TEMP. WIDENING
		1086+61 - 1089+22	LT	10	855	INCLUDES TEMP. WIDENING
		1090+00 - 1094+00	LT		1405	
		1094+00 - 1097+42	RT/LT		2405	
		1097+42 - 1098+42	RT/LT		723	
		1100+50 - 1101+50	RT/LT		722	
		1101+50 - 1105+75	RT/LT		2985	
		1105+75 - 1112+50	LT		2370	
		1112+50 - 1113+50	LT	7	185	INCLUDES TEMP. WIDENING
		21+17UW - 21+90UW	RT		85	RAMP TO EXISTING PAVEMENT
		20+27UE - 20+65UE	RT/LT		125	
0090		112+88.94NP - 122+86NP	RT/LT		550	
		50+15RU - 57+93RU	RT/LT		425	
		70+15RE - 75+96RE	RT/LT		325	
		80+07EP - 83+86EP	RT/LT		210	
0020	3	886+50 - 894+50	RT/LT		2325	
		894+50 - 897+00	RT/LT		1290	
		897+00 - 910+00	RT/LT		2910	
		11+00 - 14+00	RT/LT		410	
		1086+61 - 1088+25	RT		510	
		1088+25 - 1094+00	RT		2020	
		1105+75 - 1112+50	RT		2370	
		1112+50 - 1112+98	RT		165	
		16+50UW - 21+90UW	RT/LT		785	
0090		195+79SP - 196+79SP	RT/LT		40	
		196+79SP - 206+88SP	RT/LT		560	
		207+89SP - 214+48SP	RT/LT		370	
		50+07RU - 50+15RU	RT/LT		10	
		70+07RE - 70+15RE	RT/LT		10	
0020	4	894+50 - 897+00	RT/LT		120	STH 54 ROUNDABOUT
		897+00 - 910+00	RT/LT		30	
		1089+22 - 1090+00	LT		260	
		39+82AS - 43+21AS	RT/LT		170	
		DRIVEWAYS	RT/LT		1070	
		SIDEWALKS	RT/LT		140	
		TEMPORARY ACCESS	RT/LT		100	
		UNDISTRIBUTED	RT/LT		200	
0020			TOTAL	75	44700	
0090			TOTAL	0	2500	
			TOTAL	75	47200	

Addendum No. 2
ID 9210-11-71
Revised Sheet 166
March 5, 2012

CONCRETE PAVEMENT APPROACH SLAB

CATEGORY	STAGE	STATION - STATION	LOCATION	415.1410 CONCRETE PAVEMENT APPROACH SLAB HES (SY)
0020				
	2	1098+11 - 1098+43	RT/LT	195
	2	1100+49 - 1100+80	RT/LT	175
			TOTAL	370

ASPHALTIC SURFACE

CATEGORY	STAGE	STATION - STATION	LOCATION	465.0105 ASPHALTIC SURFACE (TON)	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES (TON)	465.0125 ASPHALTIC SURFACE TEMPORARY (TON)
0020						
	2	1091+21	LT		8	
	3	1107+78	RT		15	
	3	1108+61	RT		13	
	2	1108+81	LT		5	
	2	1109+91	LT		8	
	2	1110+70	LT		8	
	2	1111+99	LT		10	
	3	17+05UW	LT		9	
	3	17+11UW	RT		5	
	3	17+69UW	RT		6	
	3	20+60UW	LT		7	
	1	23+17UE	LT		36	
0090	5	112+88.94NP - 122+86NP	RT/LT	200		
	5	195+79SP - 206+87SP	RT/LT	212		
	5	207+89SP - 214+50SP	RT/LT	134		
	5	50+05RU - 53+22RU	RT/LT	60		
	5	54+39RU - 57+91RU	RT/LT	68		
	5	70+05RE - 71+51RE	RT/LT	28		
	5	72+61RE - 75+94RE	RT/LT	64		
	5	80+05EP - 83+86EP	RT/LT	74		
0020	1	1086+61 - 1092+00	RT			167
	1	1107+50 - 1113+50	RT			182
	1	21+55UE - 22+25UE	RT/LT			72
	2	1086+61 - 1088+24.5	LT			14
	2	1112+48 - 1113+50	LT			3
	3	21+35UE - 21+94UW	RT			22
		UNDISTRIBUTED			21	10
	2	888+00	LT		126	
	2	892+86	LT		44	
	2	898+50	LT		5	
	2	17+00	LT		38	
	2	17+00	RT		30	
	2	18+65	LT		55	
	2	19+00	RT		96	
0020			TOTAL		545	470
0090			TOTAL	840		
			TOTAL	840	545	470

ASPHALTIC ITEMS

CATEGORY	STAGE	STATION	-	STATION	LOCATION	455.0115 ASPHALTIC MATERIAL PG64-22 (TON)	455.0120 ASPHALTIC MATERIAL PG64-28 (TON)	455.0605 TACK COAT (GAL)	460.1101 HMA PAVEMENT TYPE E-1 (TON)	460.1110 HMA PAVEMENT TYPE E-10 (TON)	460.2000 INCENTIVE DENSITY HMA PAVEMENT (DOL)	460.4100.S REHEATING HMA LONGITUDINAL JOINTS (STA)	REMARKS
0020													
	2,5	1086+61	-	1089+22	LT	12		32		204	82		INCLUDES WEDGES
	2,5	1090+00	-	1094+00	LT	20		58		325	130		INCLUDES WEDGES
	2,5	1094+00	-	1098+11	RT/LT	34		120		573	229		INCLUDES WEDGES
	2,5	1100+79	-	1105+75	RT/LT	41		132		690	276		INCLUDES WEDGES
	2,5	1105+75	-	1112+98	LT	31		96		516	206		INCLUDES WEDGES
	3,5	1086+61	-	1094+00	RT	30		96		495	198		
	3,5	1105+75	-	1112+98	RT	30		96		498	199		
	4,5	1089+22	-	1090+00	LT	3		10		54	22		
	4,5	1086+61	-	1098+11	RT/LT		45	316		700	280		
	4,5	1100+79	-	1112+98	RT/LT		45	330		732	293		
	3,5	16+50UW	-	21+93UW	RT/LT	18			300		152		
	4,5	16+50UW	-	21+93UW	RT/LT		15	43	200		100		
	1,5	22+25UE	-	24+00UE	RT/LT	7			110		45		
	2,5	20+26UE	-	20+65UE	RT/LT	4			62		25		
	3,5	20+65UE	-	22+25UE	RT/LT	5			82		35		
	4,5	20+26UE	-	24+00UE	RT/LT		12	36	170		70		
	1,5	30+00ES	-	32+18ES	RT/LT	5			88		35		
	4,5	30+00ES	-	32+18ES	RT/LT		5	19	88		38		
	2,5	886+00	-	894+50	RT/LT	13	24	65		922	368		
	2,5	894+50	.-	896+75	RT/LT			40		540	217		
	2,5	896+75	-	910+00	RT/LT			85		1171	468		
	3,5	886+00	-	894+50	RT/LT	13	24	65		921	368		
	3,5	894+50	.-	896+75	RT/LT			40		539	216		
	3,5	896+75	-	910+00	RT/LT			85		1170	468		
	3,5	11+00SR	-	14+00SR	RT/LT			33		450	180		
	2,5	16+00SR	-	20+35SR	RT/LT			53		750	300		
	2,3	886+00	-	1112+98	RT/LT							51	
					TOTAL	265	170	1850	1100	11250	5000	51	

CONCRETE SURFACE DRAINS

CATEGORY	STAGE	STATION	LOCATION	416.1010 CONCRETE SURFACE DRAINS (CY)	416.0610 DRILLED TIE BARS (EA)
0020					
	4	1112+92	LT	1	7
	3	1113+17	RT	1	7
	3	20+50UW	LT	2	7
	3	21+60UW	RT	2	7
	2	887+81	LT	1	7
	2	888+32	LT	1	7
	3	890+31	RT	2	7
	2	892+34	LT	2	7
	2	907+48	LT	2	7
			TOTAL	14	63

CONCRETE ROUNDABOUT TRUCK APRON

CATEGORY	STAGE	STATION	-	STATION	LOCATION	416.0508 CONCRETE ROUNDABOUT TRUCK APRON 8-INCH (SY)	SPV.0165.03* **P** COLORED CONCRETE SIDEWALK 5-INCH (SF)	SPV.0180.01 **P** COLORED CONCRETE PAVEMENT 12-INCH (SY)
0020								
	4	895+10	-	896+35	ROUNDABOUT			305
	2	894+00	-	894+50	ROUNDABOUT		418	
	2	894+50	-	894+80	ROUNDABOUT		557	
	3	893+50	-	894+50	ROUNDABOUT	856		
	3	894+50	-	895+00	ROUNDABOUT	586		
	3	13+55	-	13+75	ROUNDABOUT		79	
	3	13+85	-	14+10	ROUNDABOUT		621	
	3	897+00	-	897+50	ROUNDABOUT		405	
	3	896+60	-	896+90	ROUNDABOUT		696	
	2	16+25	-	16+40	ROUNDABOUT		586	
	2	15+90	-	16+15	ROUNDABOUT		72	
	4	896+25	-	897+00	ROUNDABOUT	642		
	4	897+05	-	898+00	ROUNDABOUT	656		
					TOTAL	2740	3434	305

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN

ASPHALTIC ITEMS

CATEGORY	STAGE	STATION	-	STATION	LOCATION	455.0115 ASPHALTIC MATERIAL PG64-22 (TON)	455.0120 ASPHALTIC MATERIAL PG64-28 (TON)	455.0605 TACK COAT (GAL)	460.1101 HMA PAVEMENT TYPE E-1 (TON)	460.1110 HMA PAVEMENT TYPE E-10 (TON)	460.2000 INCENTIVE DENSITY HMA PAVEMENT (DOL)	460.4100.S REHEATING HMA LONGITUDINAL JOINTS (STA)	REMARKS
0020													
	1	886+50	-	894+50	RT	28		120		590			TEMP PAVT.
	1	894+50	-	897+00	RT	10		50		230			TEMP PAVT.
	1	897+00	-	910+00	RT	20		85		425			TEMP PAVT.
	2,5	886+50	-	894+50	LT	35		140		710			INCLUDES TEMP PAVEMENT
	2,5	894+50	-	897+00	LT	19		75		385			INCLUDES TEMP PAVEMENT
	2,5	897+00	-	910+00	LT	56		220		1120			INCLUDES TEMP PAVEMENT
	2,5	16+00	-	20+30	RT/LT	16		95	318				
	2,5	1086+61	-	1089+22	LT	10		35		205			INCLUDES WEDGES
	2,5	1090+00	-	1094+00	LT	16		60		325			INCLUDES WEDGES
	2,5	1094+00	-	1098+11	RT/LT	29		120		575			INCLUDES WEDGES
	2,5	1100+79	-	1105+75	RT/LT	35		135		690			INCLUDES WEDGES
	2,5	1105+75	-	1112+98	LT	26		100		516			INCLUDES WEDGES
	3,5	886+50	-	894+50	RT	26		100		510			
	3,5	894+50	-	897+00	RT	14		55		280			
	3,5	897+00	-	910+00	RT	32		125		643			
	3,5	11+00	-	14+00	RT/LT	9		55	184				
	3,5	1086+61	-	1094+00	RT	25		100		495			
	3,5	1105+75	-	1112+98	RT	25		100		498			
	4,5	886+50	-	894+50	RT/LT		22	100		446			
	4,5	894+50	-	897+00	RT/LT		12	55		247			
	4,5	897+00	-	910+00	RT/LT		31	140		624			
	4,5	16+00	-	20+30	RT/LT		9	40	170				
	4,5	11+00	-	14+00	RT/LT		6	30	125				
	4,5	1089+22	-	1090+00	LT	3		10		54			
	4,5	1086+61	-	1098+11	RT/LT		35	320		700			
	4,5	1100+79	-	1112+98	RT/LT		37	330		732			
	3,5	16+50UW	-	21+93UW	RT/LT	15			300				
	4,5	16+50UW	-	21+93UW	RT/LT		10	45	200				
	1,5	22+25UE	-	24+00UE	RT/LT	6			110				
	2,5	20+26UE	-	20+65UE	RT/LT	3			65				
	3,5	20+65UE	-	22+25UE	RT/LT	4			82				
	4,5	20+26UE	-	24+00UE	RT/LT		9	40	170				
	1,5	30+00ES	-	32+18ES	RT/LT	4			88				
	4,5	30+00ES	-	32+18ES	RT/LT		4	20	88				
	2,3	886+00	-	1112+98	RT/LT							51	
		PROJECT									8260		
					TOTAL	465	175	2900	1900	11000	8260	51	

CONCRETE SURFACE DRAINS

CATEGORY	STAGE	STATION	LOCATION	416.1010 CONCRETE SURFACE DRAINS (CY)	416.0610 DRILLED TIE BARS (EA)
0020					
	3	20+50UW	LT	2	7
	3	21+60UW	RT	2	7
	2	887+81	LT	1	7
	2	888+32	LT	1	7
	3	890+31	RT	2	7
	2	892+34	LT	2	7
	2	907+48	LT	2	7
			TOTAL	12	49

CONCRETE ROUNDABOUT TRUCK APRON

CATEGORY	STAGE	STATION	-	STATION	LOCATION	416.0508 CONCRETE ROUNDABOUT TRUCK APRON 8-INCH (SY)	SPV.0165.03* **P** COLORED CONCRETE SIDEWALK 5-INCH (SF)	SPV.0180.01 **P** COLORED CONCRETE PAVEMENT 12-INCH (SY)
0020								
	2	893+50	-	898+00	ROUNDABOUT		1950	
	3	893+50	-	898+00	ROUNDABOUT	155	2150	450
	4	893+50	-	898+00	ROUNDABOUT		1300	250
					TOTAL	155	5400	700

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN

Addendum No. 3
ID 9210-11-71
Revised Sheet 168
March 9, 2012

CULVERT PIPE TEMPORARY

CATEGORY	STAGE	STATION - STATION	LOCATION	520.4024 CULVERT PIPE TEMPORARY 24-INCH (LF)	REMARKS
0020					
	2	1105+50 - 1108+00	LT	250	INCLUDES 90 DEGREE BEND FROM MH 22.2
	1	1090+11	RT	20	
			TOTAL	270	

CULVERT PIPE

CATEGORY	STAGE	STATION	LOCATION	520.0130 CULVERT PIPE CLASS III 30-INCH (LF)	520.1030 AEW FOR CULVERT PIPE 30-INCH (EA)	521.0118 CULVERT PIPE CORRUGATED STEEL 18-INCH (LF)	521.1018 AEW FOR CULVERT PIPE STEEL 18-INCH (EA)	650.6000* CONSTRUCTION STAKING PIPE CULVERTS (EACH)	THICKNESS (INCHES) STEEL
0020									
	2	905+00	LT	80	2			1	0.109
	3	1107+90	RT			33	2	1	0.109
			TOTAL	80	2	33	2	2	

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN
NOTE: AEW (APRON ENDWALLS)

CULVERT PIPE CONCRETE COLLARS

CATEGORY	STAGE	STATION	SPV.0060.19 CULVERT PIPE CONCRETE COLLAR SHES (EACH)
0020			
	3	886+50	1
	3	892+20	1
	3	896+25	1
	3	896+83	1
	3	905+15	1
	3	908+10	1
	3	1088+26	1
	3	1091+00	1
	3	1108+00	1
	3	1109+44	1
	3	21+55UW	1
	3	21+76UW	1
		TOTAL	12

CULVERT PIPE REINFORCED CONCRETE CLASS III

CATEGORY	STAGE	STATION - STATION	LOCATION	522.0115 CULVERT PIPE REINFORCED CONCRETE CLASS III 15-INCH (LF)	522.0118 CULVERT PIPE REINFORCED CONCRETE CLASS III 18-INCH (LF)	522.0136 CULVERT PIPE REINFORCED CONCRETE CLASS III 36-INCH (LF)	522.0142 CULVERT PIPE REINFORCED CONCRETE CLASS III 42-INCH (LF)	522.1015 AEW FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH (EACH)	522.1018* AEW FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH (EACH)	522.1036 AEW FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH (EACH)	522.1042 AEW FOR CULVERT PIPE REINFORCED CONCRETE 42-INCH (EACH)	633.5200 MARKERS CULVERT END (EACH)	650.6000* CONSTRUCTION STAKING PIPE CULVERTS (EACH)	INFORMATIONAL JOINT TIES (EACH)
0090														
	2	1095+23.7 - 1095+54.6	RT		32				2				1	8
	2	1101+28.6 - 1101+64.9	LT		122				2				1	8
0020	3	1104+84.1 - 1104+94.0	RT	18				2					1	
	3	1106+04.7 - 1106+31.8	RT		22				2				1	
	4	41+68.8 AS	RT/LT			40				2		2	1	8
	4	42+26.0 AS	RT/LT		24				2			2	1	8
0090	2	70+39.6 RE	RT/LT		24				2				1	8
0020	2,3	886+50	RT/LT				116				2	2	1	12
	2	888+00	LT			122				2		2		
	2	892+20	RT									1		
	2	901+48	LT									1		
	2	905+50	LT									1		
	2	908+25	LT									1		
	3	903+50	RT									1		
0090		SUB-TOTAL			178				6				3	24
0020		SUB-TOTAL		18	46	162	116	2	4	4	2	13	5	28
			TOTAL	18	224	162	116	2	10	4	2	13	8	52

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN
NOTE: AEW (APRON ENDWALLS)

CONCRETE CURB & GUTTER

CATEGORY	STAGE	STATION	-	STATION	LOCATION	601.0105* CONCRETE CURB TYPE A (LF)	601.0411* CONCRETE CURB & GUTTER 30-INCH TYPE D (LF)	601.0417* CONCRETE CURB & GUTTER 30-INCH TYPE K (LF)	601.0553* CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D (LF)	601.0574* CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE G (LF)	601.0582* CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T (LF)	601.0600* CONCRETE CURB PEDESTRIAN (LF)	650.5500* CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER (LF)
0020													
	4	1086+61.41	-	1088+24.54	LT		164						164
	2	1089+74.66	-	1098+40	LT		865						865
	3	1086+61.23	-	1098+00	RT		1140						1140
	2	1100+79.34	-	1112+97.91	LT		1220						1220
	2	1100+79.34	-	1104+47.50	RT		368						368
	3	1105+00	-	1112+97.90	RT		798						798
	3	16+50UW	-	21+93UW	LT/RT		1062						1062
	3	21+68UW	-	21+93UW	LT		59						59
	1	20+26UE	-	23+75UE	RT		279						279
	1	20+26UE	-	23+75UE	LT		365						365
	1	30+20ES	-	32+23.32ES	RT		243						243
	1	30+20ES	-	32+23.32ES	LT		176						176
	4	39+82AS	-	40+17AS	LT/RT		74						74
	4	21+40UW	-	21+93UW	RT		123						123
	4	887+22	-	888+75	LT				155				155
	4	887+48	-	887+81	LT				67				67
	4	888+29	-	888+51	LT				59				59
	2	890+25	-	892+19	LT				196				196
	2	890+25	-	892+19	RT				200				200
	3	890+39	-	892+19	RT				183				183
	4	892+41	-	894+20	LT		222						222
	4	892+19	-	893+50	LT		153						153
	4	893+50	-	894+55	LT					96		12	108
	3	892+19	-	894+55	RT		250						250
	2	892+19	-	894+55	RT		236					25	261
	4	892+52	-	892+70	LT		29						29
	4	893+12	-	893+25	LT		29						29
	2	894+50	-	894+60		55							55
	2	5+28	-	0+14	RT		42						42
	3	0+32	-	0+86	RT					87			87
	3	0+99	-	1+25	RT		42						42
	3	1+36	-	2+46	RT		143						143
	3	2+62	-	2+90	RT		44						44
	4	3+09	-	3+62	RT					79			79
	2	3+79	-	4+02	RT		41						41
	4	4+13	-	5+10	RT		136						136
	4	0+00	-	5+40	LT						410		410
	4	0+00	-	5+40	LT			277					277
	3	896+75	-	899+20	RT		256						256
	2	896+85	-	896+95		45							45
	2	896+75	-	897+90	LT					82		13	95
	2	897+90	-	899+20	LT		156						156
	3	896+75	-	899+20	LT		240					25	265
	4	899+20	-	901+54	RT		225						225
	3	899+20	-	901+54	LT		231						231
	3	896+75	-	910+00	RT		1321						1321
	3	899+20	-	901+50	LT		123						123
	3	900+40	-	910+00	LT		1204						1204
	3	12+00	-	13+82	RT		188						188
	3	12+00	-	13+86	LT		188						188
	3	13+53	-	13+95	RT		46					11	57
	3	13+53	-	13+77	LT		27					13	40
	3	13+77	-	13+95	LT					18			18
	3	13+75	-	13+85		35							35
					TOTAL	-	-	-	-	-	-	-	-

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN

CONCRETE CURB & GUTTER (CONTINUED)

CATEGORY	STAGE	STATION	-	STATION	LOCATION	601.0105* CONCRETE CURB TYPE A (LF)	601.0411* CONCRETE CURB & GUTTER 30-INCH TYPE D (LF)	601.0417* CONCRETE CURB & GUTTER 30-INCH TYPE K (LF)	601.0553* CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE D (LF)	601.0574* CONCRETE CURB & GUTTER 4-INCH SLOPED 30-INCH TYPE G (LF)	601.0582* CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE T (LF)	601.0600* CONCRETE CURB PEDESTRIAN (LF)	650.5500* CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER (LF)
	2	16+05	-	16+33	RT					28		9	37
	2	16+33	-	16+46	RT		14						14
	2	16+15	-	16+25		35							35
	2	16+07	-	16+46	LT		45					17	62
	2	16+15	-	17+90	RT		178						178
	2	16+15	-	17+50	LT		136						136
	2	16+78	-	16+86	RT		22						22
	2	16+68	-	16+84	LT		31						31
	2	17+16	-	17+30	RT		28						28
	2	17+15	-	17+27	LT		32						32
					TOTAL	170	12994	277	860	390	410	125	15226

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN

CONCRETE SIDEWALK

CATEGORY	STAGE	STATION	-	STATION	SIDE	LOCATION	602.0405 CONCRETE SIDEWALK 4-INCH (SF)
0020							
	2	1098+55			-	WEST ABUTMENT	850
	2	1100+35			-	EAST ABUTMENT	825
	3	893+20	-	894+50	RT	WEST LEG	800
	4	893+50	-	894+50	LT	WEST LEG	670
	2	894+50	-	894+60	-	WEST SPLITTER ISLAND	240
	4	894+50	-	895+73	LT	ROUNDABOUT	1620
	3	894+50	-	895+07	RT	ROUNDABOUT	970
	3	895+32	-	895+46	RT	SOUTH SPLITTER ISLAND	170
	2	895+88	-	896+00	LT	NORTH SPLITTER ISLAND	180
	3	895+62	-	897+00	RT	ROUNDABOUT	1770
	4	896+32	-	897+00	LT	ROUNDABOUT	870
	3	896+85	-	897+00	-	EAST SPLITTER ISLAND	190
	4	897+00	-	897+94	LT	EAST LEG	815
0080	3	897+00	-	910+00	RT	EAST LEG	7030
	3	16+50UW	-	21+00UW	LT	WEST SERVICE ROAD	2300
	4	211+00SP			LT	LIBRARY GREEN	500
0090	4	214+41SP	-	214+52SP	LT/RT	SOUTH SHARED PATH	100
0020						SUBTOTAL	9970
0080						SUBTOTAL	9830
0090						SUBTOTAL	100
						TOTAL	19900

CURB RAMP DETECTABLE WARNING FIELD

CATEGORY	STAGE	STATION	SIDE	LOCATION	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA (SF)
0020					
	3	894+50	RT	WEST LEG	16
	2	894+50	RT	WEST SPLITTER ISLAND	16
	4	894+50	LT	WEST LEG	16
	2	894+50	LT	WEST SPLITTER ISLAND	16
	3	895+07	RT	ROUNDABOUT	16
	4	895+46	LT	ROUNDABOUT	16
	3	895+32	RT	SOUTH SPLITTER ISLAND	16
	3	895+46	RT	SOUTH SPLITTER ISLAND	16
	2	895+88	LT	NORTH SPLITTER ISLAND	16
	2	896+00	LT	NORTH SPLITTER ISLAND	16
	4	895+62	LT	ROUNDABOUT	16
	4	896+32	LT	ROUNDABOUT	16
	3	897+00	RT	EAST LEG	16
	3	896+90	RT	EAST SPLITTER ISLAND	16
	4	897+00	LT	EAST LEG	16
	3	896+90	LT	EAST SPLITTER ISLAND	16
0090	4	214+50SP	LT/R	SOUTH SHARED PATH	16
0020				SUBTOTAL	256
0090				SUBTOTAL	16
				TOTAL	272

COLORED CONCRETE SIDEWALK

CATEGORY	STAGE	STATION	-	STATION	SIDE	LOCATION	305.0120* BASE AGGREGATE DENSE 1 1/4-INCH (TON)	SPV.0165.02 COLORED AND STAMPED CONCRETE SIDEWALK 4-INCH (SF)	SPV.0165.03* **P** COLORED CONCRETE SIDEWALK 5-INCH (SF)
0070									
	2,3	CENTRAL ISLAND			-	ROUNDABOUT	105	2030	2150
						TOTAL	105	2030	2150

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN

STORM SEWER PIPE

CATEGORY	STAGE		FROM	TO	UP STREAM INVERT ELEVATION	DOWN STREAM INVERT ELEVATION	608.0312* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH (LF)	608.0318* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH (LF)	608.0324* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH (LF)	608.0336* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH (LF)	610.0119* STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 19x30-INCH (LF)	610.0124* STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 24x38-INCH (LF)	610.0134* STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 34x53-INCH (LF)
0020													
	2,3	P101	15.3	15.2	683.52	682.76		51					
	2	P102	15.2	15.1	682.66	681.42		45					
	2	P103	15.1	15.0	680.92	680.45			40				
	2	P104	30.2	15.1	682.00	681.75		10					
	2	P107	15.0	17.0	680.35	675.08			201				
	2	P300	30.2	31.0	678.64	676.00							132
	2	P301***	30.1	30.2	679.50	678.72						13	
	2	P310	31.0	32.2	676.00	671.00							200
	2	P320	32.2	32.1	671.00	670.08							84
	2	P321	32.1	32.0	670.08	669.84							24
	2	P110	17.1	17.0	676.02	675.93		9					
	2,3	P111	17.2	17.1	676.63	676.12		51					
	2	P112	17.0	18.0	674.98	672.51			247				
	2	P113	18.1	18.0	672.95	672.86		9					
	2	P114	18.2	18.1	673.91	673.81	10						
	2,3	P115**	18.3	18.1	673.31	673.06		51					
	3	P116	18.4	18.3	673.91	673.81	10						
	2	P117	18.0	19.0	672.51	671.17			268				
	2	P118	19.1	19.0	675.76	675.67		9					
	2	P119	19.2	19.1	676.37	675.86		51					
	2	P120	19.0	19.3	671.00	669.50					50		
	2	P121	20.4	20.5	678.50	678.00	14						
	2	P122	20.4	20.3	677.73	677.37		51					
	2	P123	20.3	20.2	677.33	677.16		61					
	2	P124	20.2	20.1	677.16	677.04		45					
	2	P125	20.1	20.0	677.04	677.01		11					
	2	P126	21.4	21.3	678.53	678.43	10						
	2	P127	21.3	21.5	679.30	679.30	10						
	2	P128	21.3	21.0	677.93	677.83		51					
	2	P129	21.1	21.0	678.43	678.33	10						
	2	P130	21.0	21.2	677.83	677.81		7					
	3	P131	22.3	22.4	679.81	679.71			48				
	2,3	P132	22.2	22.3	679.92	679.81			51				
	2	P133	22.0	22.2	681.46	680.02			144				
	2,3	P134	22.1	22.0	682.26	681.91		70					
	2	P135	23.0	22.0	683.60	681.56			163				
	2,3	P136	24.4	24.1	688.36	688.30	10						
	2	P137	23.2	23.0	685.87	685.79		8					
	2	P138	24.0	23.0	687.55	683.70			154				
	1	P139	24.1	24.0	688.30	688.07		46					
	1	P140	24.2	24.1	690.23	689.00		19					
	2	P141	24.3	24.0	689.13	688.10		16					
	3	P147	27.2	27.3	676.96	676.85						56	
	3	P148	27.1	27.2	677.00	676.96			5				
	1,3	P151	26.2	26.3	678.20	676.79			54				
	1	P152	26.1	26.2	679.23	678.20			155				
	1	P153	EX	26.1	681.68	679.70		68					
	3	P146	27.3	27.4	676.85	676.66						37	
	2	P155	33.0	33.1	667.25	667.11			7				
						TOTAL	--	--	--	--	--	--	--

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN
**USE AS A FRENCH DRAIN BETWEEN STAGES
***ROTATE 90% SO THAT MAJOR AXIS IS VERTICAL

STORM SEWER PIPE

CATEGORY	STAGE		FROM	TO	UP STREAM INVERT ELEVATION	DOWN STREAM INVERT ELEVATION	608.0312* CLASS III 12-INCH (LF)	608.0318* CLASS III 18-INCH (LF)	608.0324* CLASS III 24-INCH (LF)	608.0336* CLASS III 36-INCH (LF)	610.0119* CLASS HE-III 19x30-INCH (LF)	610.0124* CLASS HE-III 24x38-INCH (LF)	610.0134* CLASS HE-III 34x53-INCH (LF)
							STORM SEWER PIPE REINFORCED CONCRETE				STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL		
0020													
	2,3	P-101	15.3	15.2	683.52	682.76		51					
	2	P-102	15.2	15.1	682.66	681.42		45					
	2	P-103	15.1	15.0	680.92	680.45			40				
	2	P-104	30.2	15.1	682.00	681.75		10					
	2	P-107	15.0	17.0	680.35	675.08			201				
	2	P-300	30.2	31.0	678.64	676.00							132
	2	P-301***	30.1	30.2	679.50	678.72						13	
	2	P-310	31.0	32.2	676.00	671.00							200
	2	P-320	32.2	32.1	671.00	670.08							84
	2	P-321	32.1	32.0	670.08	669.84							24
	2	P-110	17.1	17.0	676.02	675.93		9					
	2,3	P-111	17.2	17.1	676.63	676.12		51					
	2	P-112	17.0	18.0	674.98	672.51			247				
	2	P-113	18.1	18.0	672.95	672.86		9					
	2	P-114	18.2	18.1	673.91	673.81	10						
	2,3	P-115**	18.3	18.1	673.31	673.06		51					
	3	P-116	18.4	18.3	673.91	673.81	10						
	2	P-117	18.0	19.0	672.51	671.17			268				
	2	P-118	19.1	19.0	675.76	675.67		9					
	2	P-119	19.2	19.1	676.37	675.86		51					
	2	P-120	19.0	19.3	671.00	669.50					50		
	2	P-121	20.4	20.5	678.50	678.00	14						
	2	P-122	20.4	20.3	677.73	677.37		51					
	2	P-123	20.3	20.2	677.33	677.16		61					
	2	P-124	20.2	20.1	677.16	677.04		45					
	2	P-125	20.1	20.0	677.04	677.01		11					
	2	P-126	21.4	21.3	678.53	678.43	10						
	2	P-127	21.3	21.5	679.30	679.30	10						
	2	P-128	21.3	21.0	677.93	677.83		51					
	2	P-129	21.1	21.0	678.43	678.33	10						
	2	P-130	21.0	21.2	677.83	677.81		7					
	3	P-131	40.0	40.1	679.81	679.71			48				
	2,3	P-132	41.0	40.0	679.92	679.81			51				
	2	P-133	42.0	41.0	681.46	680.02			144				
	2,3	P-134	42.2	42.0	682.95	682.71		24					
	2,3	P-134.1	42.1	42.0	681.71	681.47		48					
	2	P-135	43.0	42.0	682.31	681.56			65				
	2	P-135.1	44.0	43.0	683.60	682.42			103				
	2,3	P-136	45.3	45.1	687.45	687.35	10						
	2	P-137	44.1	44.0	684.92	684.84		8					
	2	P-138	45.0	44.0	686.13	683.70			162				
	1	P-139	45.1	45.0	686.85	686.64		43					
	1	P-140	45.2	45.1	690.07	689.00		17					
	2	P-141	45.4	45.0	686.67	686.64		6					
	2	P-141.1	45.5	45.4	687.27	687.17		10					
	3	P-147	27.2	27.3	676.96	676.85						56	
	3	P-148	27.1	27.2	677.00	676.96			5				
	1,3	P-151	26.2	26.3	677.13	676.79			13				
	1	P-152	26.1	26.2	679.23	677.96			196				
						TOTAL	--	--	--	--	--	--	--

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN
**USE AS A FRENCH DRAIN BETWEEN STAGES
***ROTATE 90% SO THAT MAJOR AXIS IS VERTICAL

Addendum No. 2
ID 9210-11-71
Revised Sheet 172
March 5, 2012

STORM SEWER PIPE (CONTINUED)

CATEGORY	STAGE		FROM	TO	UP STREAM INVERT ELEVATION	DOWN STREAM INVERT ELEVATION	608.0312* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH (LF)	608.0318* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH (LF)	608.0324* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH (LF)	608.0336* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH (LF)	610.0119* STORM SEWER PIPE REINFORCED CLASS HE-III 19x30-INCH (LF)	610.0124* STORM SEWER PIPE REINFORCED CLASS HE-III 24x38-INCH (LF)	610.0134* STORM SEWER PIPE REINFORCED CLASS HE-III 34x53-INCH (LF)	REMARKS
0020														
	3	P-200	28.2	28.1	710.23	710.00	23							
	3	P-201	28.1	28.0	709.50	709.45		5						
	3	P-202	28.0	29.0	707.05	693.30			275					
	3	P-205	29.3	29.2	691.88	691.60	28							
	3	P-204	29.2	29.1	690.10	689.85		25						
	3	P-203	29.1	29.0	689.85	689.80		5						
	3	P-206	29.0	29.4	689.30	688.42			44					6 JOINT TIES
	3		1.0	1.4	740.66	740.50	12							6 JOINT TIES
	2		1.1	1.2	740.80	740.73	21							
	1		1.2	1.0	740.73	740.66	26							
	3		1.3	1.0	740.75	740.66	30							
	3		2.0	4.0	739.10	737.31			179					
	3		2.1	2.0	742.73	740.10	175							
	3		2.2	2.0	740.45	740.10	47							
	3		2.3	2.2	740.74	740.45	39							
	2		3.0	4.1	737.48	736.70			78					
	2		3.1	3.0	738.96	738.48	24							
	2		3.2	3.0	738.83	738.48		69						
	2		3.3	3.2	739.53	739.33	20							
	2		3.4	3.3	740.53	739.53	100							
	2		3.5	3.4	740.59	740.53	6							
	2		4.0	5.0	736.55	735.32			49					
	2		4.1	4.0	736.70	736.55			15					
	2		5.0	6.0	735.32	730.85			145					
	3		5.1	5.2	737.57	737.09	36							
	3		5.2	5.0	737.09	736.83	26							
	2		5.3	5.0	737.88	736.83	23							
	2		6.0	7.0	730.85	720.00			310					
	3		6.1	6.0	732.81	731.85	32							
	2		6.2	6.0	732.06	731.85	7							
	2		6.3	6.2	733.08	732.06	29							
	2		7.0	8.0	720.00	719.72			8					
	2		8.0	8.3	717.73	716.78			24					
	3		8.1	8.2	720.01	719.01	25							
	2		8.2	8.0	719.01	718.73	6							
	2		8.3	8.4	716.78	715.05			43					6 JOINT TIES
	4		9.1	9.2	706.11	703.03	88							6 JOINT TIES
	4		10.1	10.2	696.86	696.68	62							6 JOINT TIES
	1		12.1	12.2	727.32	717.45				282				
	1		12.2	12.3	715.76	715.51				100				6 JOINT TIES
				TOTAL			959	843	2707	382	50	106	440	

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN
**USE AS A FRENCH DRAIN BETWEEN STAGES
***ROTATE 90% SO THAT MAJOR AXIS IS VERTICAL

STORM SEWER PIPE (CONTINUED)

CATEGORY	STAGE		FROM	TO	UP STREAM INVERT ELEVATION	DOWN STREAM INVERT ELEVATION	608.0312* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH (LF)	608.0318* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH (LF)	608.0324* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH (LF)	608.0336* STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH (LF)	610.0119* STORM SEWER PIPE REINFORCED CLASS HE-III 19x30-INCH (LF)	610.0124* STORM SEWER PIPE REINFORCED CLASS HE-III 24x38-INCH (LF)	610.0134* STORM SEWER PIPE REINFORCED CLASS HE-III 34x53-INCH (LF)	REMARKS
0020														
	1	P153	EX	26.1	681.68	679.70		68						
	3	P146	27.3	27.4	676.85	676.66						37		
	2	P155	33.0	33.1	667.25	667.11			7					
	3	P-200	28.2	28.1	710.23	710.00	23							
	3	P-201	28.1	28.0	709.50	709.45		5						
	3	P-202	28.0	29.0	707.05	693.30			275					
	3	P-205	29.3	29.2	691.88	691.60	28							
	3	P-204	29.2	29.1	690.10	689.85		25						
	3	P-203	29.1	29.0	689.85	689.80		5						
	3	P-206	29.0	29.4	689.30	688.42			44					6 JOINT TIES
	3		1.0	1.4	740.66	740.50	12							6 JOINT TIES
	2		1.1	1.2	740.80	740.73	21							
	1		1.2	1.0	740.73	740.66	26							
	3		1.3	1.0	740.75	740.66	30							
	3		2.0	4.0	739.10	737.31			179					
	3		2.1	2.0	742.73	740.10	175							
	3		2.2	2.0	740.45	740.10	47							
	3		2.3	2.2	740.74	740.45	39							
	2		3.0	4.1	737.48	736.70			78					
	2		3.1	3.0	738.96	738.48	24							
	2		3.2	3.0	738.83	738.48		69						
	2		3.3	3.2	739.53	739.33	20							
	2		3.4	3.3	740.53	739.53	100							
	2		3.5	3.4	740.59	740.53	6							
	2		4.0	5.0	736.55	735.32			49					
	2		4.1	4.0	736.70	736.55			15					
	2		5.0	6.0	735.32	730.85			145					
	3		5.1	5.2	737.57	737.09	36							
	3		5.2	5.0	737.09	736.83	26							
	2		5.3	5.0	737.88	736.83	23							
	2		6.0	7.0	730.85	720.00			310					
	3		6.1	6.0	732.81	731.85	32							
	2		6.2	6.0	732.06	731.85	7							
	2		6.3	6.2	733.08	732.06	29							
	2		7.0	8.0	720.00	719.72			8					
	2		8.0	8.3	717.73	716.78			24					
	3		8.1	8.2	720.01	719.01	25							
	2		8.2	8.0	719.01	718.73	6							
	2		8.3	8.4	716.78	715.05			43					6 JOINT TIES
	4		9.1	9.2	706.11	703.03	88							6 JOINT TIES
	4		10.1	10.2	696.86	696.68	62							6 JOINT TIES
	1		12.1	12.2	727.32	717.45				282				
	1		12.2	12.3	715.76	715.51				100				6 JOINT TIES
						TOTAL	959	840	2720	382	50	106	440	

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN
**USE AS A FRENCH DRAIN BETWEEN STAGES
***ROTATE 90% SO THAT MAJOR AXIS IS VERTICAL

Addendum No. 2
ID 9210-11-71
Revised Sheet 173
March 5, 2012

RIPRAP & GEOTEXTILE FABRIC

CATEGORY	STAGE	STATION - STATION	LOCATION	606.0100 RIPRAP LIGHT (CY)	606.0200 RIPRAP MEDIUM (CY)	606.0300 RIPRAP HEAVY (CY)	645.0120 GEOTEXTILE FABRIC TYPE HR (SY)	645.0130 GEOTEXTILE FABRIC TYPE R (SY)
0020								
	2	1088+31	60.5' LT		2		4	
	2	1093+00	68.5' LT			18	26	
	2	1095+12	63.4'RT	1				4
	2	1095+58	69.3' RT		3		6	
	2	1096+22	89.7' LT		11		22	
	2	1096+53	127.7'LT		12		24	
	2	1097+30	113.5'LT	1				4
	2	1097+81	96.9'RT	1				4
	2	1097+83	150.1'LT		3		6	
	2	1097+88	135.0'LT	1				4
	2	1098+00 - 1099+00	SW QUAD			120	180	
	2	1099+00 - 1100+00	SE QUAD			324	486	
	2	1100+00 - 1101+00	NE QUAD			183	275	
	2	1101+27	197.6' LT			36	55	
	2	1101+81	75.9'LT	1				4
	2	1103+37	58.4' LT	1				4
	2	1104+49	67.4' RT		3		6	
	2	1105+45	38.1' RT		3		6	
	2	1105+48	39.5' LT	1				4
	3	1107+53	44.7' RT		4		8	
	2	1112+83	35.2' LT		7		14	
	1	1113+09	38.6' RT		15		30	
	3	19+95UW	43.5' RT		3		6	
	3	21+62UE	57.8' RT		5		10	
	1	23+51UE	32.7'RT	2				5
	4	41+69AS	29.9' LT		7		14	
	4	42+26AS	14.9' LT		3		6	
	2	70+51RE	12.8' LT		3		6	
	3	886+25	RT		3		8	
	2	887+30	LT	3				8
	2	887+70	LT	1				4
	2	888+50	LT	1				4
	3	890+00	RT	1				4
	2	892+10	LT	1				4
	3	892+15	RT	1				4
	3	896+90	RT	1				4
	3	897+20	RT	1				4
	3	898+40	RT	1				4
	2	901+50	LT			1	4	
	3	901+80	RT	1				4
	3	903+60	RT		3		8	
	3	905+10	RT	1				4
	2	905+50	LT		4		8	
	4	907+75	LT	1				4
	3	908+10	RT	1				4
	2	908+25	LT	1				4
		UNDISTRIBUTED AMOUNT (25%)		6	26	168	282	27
			TOTAL	31	120	850	1500	120

RECONSTRUCTING MANHOLES

CATEGORY	STAGE	STATION	LOCATION	611.0420 RECONSTRUCTING MANHOLES (EACH)
0020				
	2	891+22.3	STH 54, RT	1
	2	896+26.6	STH 54, RT	1
			TOTAL	2

ADJUSTING MANHOLE COVERS

CATEGORY	STAGE	STATION	LOCATION	611.8110 ADJUSTING MANHOLE COVERS (EACH)
0020				
	2	887+59	41' LT	1
	2	895+48	45' LT	1
	2	1092+25	7' LT	1
	3	1092+63	67' RT	1
	3	1105+63	51' RT	1
	2	1108+78	18' LT	1
	2	1109+50	18' LT	1
	2	1111+19	18' LT	1
	2	1112+13	25' LT	1
	2	1112+73	18' LT	1
	3	19+97UW	6' RT	1
	3	21+08UE	21' LT	1
	4	41+43AS	3' RT	1
	4	41+61AS	15' RT	1
	4	42+13AS	9' RT	1
	4	212+10SP	19 'LT	1
			TOTAL	16

RIPRAP & GEOTEXTILE FABRIC

CATEGORY	STAGE	STATION - STATION	LOCATION	606.0100 RIPRAP LIGHT (CY)	606.0200 RIPRAP MEDIUM (CY)	606.0300 RIPRAP HEAVY (CY)	645.0120 GEOTEXTILE FABRIC TYPE HR (SY)	645.0130 GEOTEXTILE FABRIC TYPE R (SY)
0020								
	2	1088+31	60.5' LT		2		4	
	2	1093+00	68.5' LT			18	26	
	2	1095+12	63.4'RT	1				4
	2	1095+58	69.3' RT		3		6	
	2	1096+22	89.7' LT		11		22	
	2	1096+53	127.7'LT		12		24	
	2	1097+30	113.5'LT	1				4
	2	1097+81	96.9'RT	1				4
	2	1097+83	150.1'LT		3		6	
	2	1097+88	135.0'LT	1				4
	2	1098+00 - 1099+00	SW QUAD			120	180	
	2	1099+00 - 1100+00	SE QUAD			324	486	
	2	1100+00 - 1101+00	NE QUAD			183	275	
	2	1101+27	197.6' LT			36	55	
	2	1101+81	75.9'LT	1				4
	2	1103+37	58.4' LT	1				4
	2	1104+49	67.4' RT		3		6	
	2	1105+45	38.1' RT		3		6	
	2	1105+48	39.5' LT	1				4
	3	1107+53	44.7' RT		4		8	
	1	1113+09	38.6' RT		15		30	
	3	19+95UW	43.5' RT		3		6	
	3	21+62UE	57.8' RT		5		10	
	1	23+51UE	32.7'RT	2				5
	4	41+69AS	29.9' LT		7		14	
	4	42+26AS	14.9' LT		3		6	
	2	70+51RE	12.8' LT		3		6	
	3	886+25	RT		3		8	
	2	887+30	LT	3				8
	2	887+70	LT	1				4
	2	888+50	LT	1				4
	3	890+00	RT	1				4
	2	892+10	LT	1				4
	3	892+15	RT	1				4
	3	896+90	RT	1				4
	3	897+20	RT	1				4
	3	898+40	RT	1				4
	2	901+50	LT			1	4	
	3	901+80	RT	1				4
	3	903+60	RT		3		8	
	3	905+10	RT	1				4
	2	905+50	LT		4		8	
	4	907+75	LT	1				4
	3	908+10	RT	1				4
	2	908+25	LT	1				4
		UNDISTRIBUTED AMOUNT (25%)		6	23	168	296	27
			TOTAL	31	110	850	1500	120

RECONSTRUCTING MANHOLES

CATEGORY	STAGE	STATION	LOCATION	611.0420 RECONSTRUCTING MANHOLES (EACH)
0020				
	2	891+22.3	STH 54, RT	1
	2	896+26.6	STH 54, RT	1
			TOTAL	2

ADJUSTING MANHOLE COVERS

CATEGORY	STAGE	STATION	LOCATION	611.8110 ADJUSTING MANHOLE COVERS (EACH)
0020				
	2	1109+50	18' LT	1
	2	1110+15	6' LT	1
	2	1111+19	18' LT	1
	2	1112+82	18' LT	1
	4	41+61AS	15'RT	1
			TOTAL	5

Addendum No. 2
ID 9210-11-71
Revised Sheet 174
March 5, 2012

STRUCTURES, MANHOLES, CULVERTS, AND PIPES

CATEGORY	STAGE	STRUCT. NO.	STA	OFFSET		RIM ELEVATION	TOP OF STRUCTURE ELEVATION	INVERT ELEVATION	SUMP ELEVATION	611.0101* CATCH BASINS TYPE 1 (EACH)	611.0303* INLETS TYPE 3 (EACH)	611.0305* INLETS TYPE 8 (EACH)	611.0307* INLETS TYPE 9 (EACH)	611.0201* MANHOLES TYPE 1 (EACH)	611.0210* MANHOLES TYPE 3 (EACH)	SPV.0060.03* MODIFIED INLET TYPE 10 (EACH)	SPV.0060.01* MANHOLE 96-INCH DIAMETER (EACH)	522.1012* APRON ENDWALLS ** 12-INCH (EACH)*	522.1018* APRON ENDWALLS ** 18-INCH (EACH)*	522.1024* APRON ENDWALLS ** 24-INCH (EACH)
0020																				
	2	15.0	1088+99.5	42.4	LT	684.84	683.84	680.35						1						
	2	15.1	1088+61.4	52.9	LT	685.30	684.30	680.92							1					
	2	15.2	1088+26.0	25.5	LT	687.15	686.15	682.66			1									
	3	15.3	1088+26.0	25.5	RT	687.15	686.15	683.52			1									
	2	30.1	1088+42.3	60.5	LT	683.50	682.50	679.50								1				
	2	30.2	1089+55.3	60.5	LT	685.25	684.00	678.64	678.72								1			
	2	31.0	1089+87.3	61.7	LT	680.00	680.00	676.00					1							
	2	32.0	1092+92.8	65.1	LT			669.76												
	2	32.1	1092+71.1	54.6	LT	675.00	673.75	670.08									1			
	2	32.2	1091.87.3	60.2	LT	675.00	675.00	671.00	671.00				1							
	2	17.0	1091+00.0	34.0	LT	681.47	680.22	674.98							1					
	2	17.1	1091+00.0	25.5	LT	680.25	679.25	676.02			1									
	3	17.2	1091+00.0	25.5	RT	680.25	679.25	676.63			1									
	2	18.0	1093+47.0	34.0	LT	677.42	676.17	672.51							1					
	2	18.1	1093+47.0	25.5	LT	677.25	676.25	672.95			1									
	2	18.2	1093+37.0	25.5	LT	677.26	676.26	673.91			1									
	3	18.3	1093+47.0	25.5	RT	677.25	676.25	673.31			1									
	3	18.4	1093+37.0	25.5	RT	677.26	676.26	673.91			1									
	2	19.0	1096+15.1	34.0	LT	679.83	678.58	671.00							1					
	2	19.1	1096+15.1	25.5	LT	680.00	679.00	675.76			1									
	2	19.2	1096+15.1	25.5	RT	680.00	679.00	676.37			1									
	2	19.3	1096+20.9	83.6	LT			669.50												
	2	20.0	1104+49.1	67.4	RT			677.00											1	
	2	20.1	1104+34.4	70.4	RT	680.56	679.56	677.04	675.54	1										
	2	20.2	1103+89.3	71.3	RT	680.73	679.73	677.16	675.66	1										
	2	20.3	1103+48.8	25.5	RT	681.73	680.73	677.33	675.83	1										
	2	20.4	1103+48.8	25.5	LT	681.73	680.73	677.73			1									
	2	20.5	1103+42.1	37.2	LT			678.01										1		
	2	21.0	1105+48.0	25.5	RT	681.13	680.13	677.83	675.33	1										
	2	21.1	1105+58.0	25.5	RT	681.16	680.16	678.43			1									
	2	21.2	1105+45.1	38.1	RT			677.81											1	
	2	21.3	1105+48.0	25.5	LT	681.13	680.63	677.93	676.43	1										
	2	21.4	1105+58.0	25.5	LT	681.16	680.66	678.53			1									
	2	21.5	1105+48.0	34.0	LT			679.30										1		
	2	22.0	1109+50.0	18.0	LT	687.03	685.78	681.46							1					
	3	22.1	1109+30.0	49.0	RT	689.35	689.35	682.26				1								
	2	22.2	1108+00.0	25.5	LT	684.37	683.37	679.92							1					
	3	22.3	1108+00.0	25.5	RT	684.37	683.37	679.81		1										
	3	22.4	1107+52.8	44.7	RT			679.71												1
	2	23.0	1111+19.0	18.0	LT	689.90	688.65	683.60							1					
	3	24.4	1112+81.8	24.1	RT	691.75	690.75	688.36			1									
	2	23.2	1111+19.0	25.5	LT	689.79	688.79	685.87			1									
	1	24.0	1112+73.0	18.0	LT	691.83	690.58	687.55							1					
	1	24.1	1112+91.8	23.7	RT	691.86	690.86	688.30			1									
	1	24.2	1113+06.2	36.2	RT			690.23											1	
	2	24.3	1112+81.4	31.9	LT			689.13											1	
	1	26.1	23+45.8UE	36.1	RT	681.95	681.95	679.23				1								
	1	26.2	22+01.9UE	25.6	RT	683.30	682.05	678.20						1						
	1	26.3	21+68.4UE	55.6	RT			676.79												1
	3	27.1	21+50.7UE	45.1	LT	680.00	680.00	677.00								1				
	3	27.2	21+49.7UE	31.1	LT	682.25	680.25	676.96							1					
	3	27.3	21+44.2UE	24.5	RT	682.63	681.38	676.85							1					
	3	27.4	21+60.6UE	54.8	RT			676.66												
	2	33.0	56+35.0RU	30.3	RT	669.50	669.50	667.25								1				
	2	33.1	56+15.0RU	30.0	RT			667.00												1
									TOTAL	--	--	--	--	--	--	--	--	--	--	--

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN

** FOR CULVERT PIPE REINFORCED CONCRETE ...

*** FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL

NOTE: MANHOLES HAVE VARIOUS TYPES OF INLET OPENINGS

STRUCTURES, MANHOLES, CULVERTS, AND PIPES

CATEGORY	STAGE	STRUCT. NO.	STA	OFFSET		RIM ELEVATION	TOP OF STRUCTURE ELEVATION	INVERT ELEVATION	SUMP ELEVATION	611.0101* CATCH BASINS TYPE 1 (EACH)	611.0303* INLETS TYPE 3 (EACH)	611.0305* INLETS TYPE 8 (EACH)	611.0307* INLETS TYPE 9 (EACH)	611.0201* MANHOLES TYPE 1 (EACH)	611.0210* MANHOLES TYPE 3 (EACH)	SPV.0060.03* MODIFIED INLET TYPE 10 (EACH)	SPV.0060.01* MANHOLE 96-INCH DIAMETER (EACH)	522.1012* APRON ENDWALLS ** 12-INCH (EACH)*	522.1018* APRON ENDWALLS ** 18-INCH (EACH)*	522.1024* APRON ENDWALLS ** 24-INCH (EACH)
0020																				
	2	15.0	1088+99.5	42.4	LT	684.84	683.84	680.35						1						
	2	15.1	1088+61.4	52.9	LT	685.30	684.30	680.92							1					
	2	15.2	1088+26.0	25.5	LT	687.15	686.15	682.66			1									
	3	15.3	1088+26.0	25.5	RT	687.15	686.15	683.52			1									
	2	30.1	1088+42.3	60.5	LT	683.50	682.50	679.50								1				
	2	30.2	1089+55.3	60.5	LT	685.25	684.00	678.64	678.72								1			
	2	31.0	1089+87.3	61.7	LT	680.00	680.00	676.00					1							
	2	32.0	1092+92.8	65.1	LT			669.76												
	2	32.1	1092+71.1	54.6	LT	675.00	673.75	670.08									1			
	2	32.2	1091.87.3	60.2	LT	675.00	675.00	671.00	671.00				1							
	2	17.0	1091+00.0	34.0	LT	681.47	680.22	674.98							1					
	2	17.1	1091+00.0	25.5	LT	680.25	679.25	676.02			1									
	3	17.2	1091+00.0	25.5	RT	680.25	679.25	676.63			1									
	2	18.0	1093+47.0	34.0	LT	677.42	676.17	672.51							1					
	2	18.1	1093+47.0	25.5	LT	677.25	676.25	672.95			1									
	2	18.2	1093+37.0	25.5	LT	677.26	676.26	673.91			1									
	3	18.3	1093+47.0	25.5	RT	677.25	676.25	673.31			1									
	3	18.4	1093+37.0	25.5	RT	677.26	676.26	673.91			1									
	2	19.0	1096+15.1	34.0	LT	679.83	678.58	671.00							1					
	2	19.1	1096+15.1	25.5	LT	680.00	679.00	675.76			1									
	2	19.2	1096+15.1	25.5	RT	680.00	679.00	676.37			1									
	2	19.3	1096+20.9	83.6	LT			669.50												
	2	20.0	1104+49.1	67.4	RT			677.00											1	
	2	20.1	1104+34.4	70.4	RT	680.56	679.56	677.04	675.54	1										
	2	20.2	1103+89.3	71.3	RT	680.73	679.73	677.16	675.66	1										
	2	20.3	1103+48.8	25.5	RT	681.73	680.73	677.33	675.83	1										
	2	20.4	1103+48.8	25.5	LT	681.73	680.73	677.73			1									
	2	20.5	1103+42.1	37.2	LT			678.01										1		
	2	21.0	1105+48.0	25.5	RT	681.13	680.13	677.83	675.33	1										
	2	21.1	1105+58.0	25.5	RT	681.16	680.16	678.43			1									
	2	21.2	1105+45.1	38.1	RT			677.81											1	
	2	21.3	1105+48.0	25.5	LT	681.13	680.63	677.93	676.43	1										
	2	21.4	1105+58.0	25.5	LT	681.16	680.66	678.53			1									
	2	21.5	1105+48.0	34.0	LT			679.30										1		
	2	42.0	1109+50.0	18.0	LT	687.03	685.78	681.46							1					
	3	42.1	1109+30.0	25.5	RT	686.58	685.58	681.71			1									
	3	42.2	1109+30.0	49.0	RT	689.35	689.35	682.95				1								
	2	41.0	1108+00.0	25.5	LT	684.37	683.37	679.92						1						
	3	40.0	1108+00.0	25.5	RT	684.37	683.37	679.81		1										
	3	40.1	1107+52.8	44.7	RT			679.71												1
	2	43.0	1110+15.0	6.0	LT	688.37	687.12	682.31						1						
	2	44.0	1111+19.0	18.0	LT	689.90	688.65	683.60						1						
	3	45.3	1112+82.0	24.1	RT	691.72	690.72	687.45			1									
	2	44.1	1111+19.0	25.5	LT	689.79	688.79	684.92			1									
	1	45.0	1112+81.5	18.0	LT	691.81	690.56	686.31						1						
	1	45.1	1112+92.0	23.7	RT	691.82	690.82	686.85			1									
	1	45.2	1113+05.4	34.4	RT			690.45											1	
	2	45.4	1112+82.0	24.1	LT	691.72	690.72	686.67			1									
	2	45.5	1112+92.0	23.7	LT	691.82	690.82	687.27			1									
	1	26.1	23+45.8UE	36.1	RT	681.95	681.95	679.23				1								
	1	26.2	21+72.8UE	13.5	RT	683.00	681.75	677.13						1						
	1	26.3	21+67.6UE	54.6	RT			676.79												1
	3	27.1	21+50.7UE	45.1	LT	680.00	680.00	677.00								1				
	3	27.2	21+49.7UE	31.1	LT	682.25	680.25	676.96							1					
									SUBTOTAL 1	6	19	2	2	6	6	2	2	2	3	2

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN

** FOR CULVERT PIPE REINFORCED CONCRETE ...

*** FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL

NOTE: MANHOLES HAVE VARIOUS TYPES OF INLET OPENINGS

Addendum No. 2
ID 9210-11-71
Revised Sheet 175
March 5, 2012

STRUCTURES, MANHOLES, CULVERTS, AND PIPES (CONTINUED)

CATEGORY	STAGE	STRUCT. NO.	STA	OFFSET		RIM ELEVATION	TOP OF STRUCTURE ELEVATION	INVERT ELEVATION	SUMP ELEVATION	611.0101* CATCH BASINS TYPE 1 (EACH)	611.0303* INLETS TYPE 3 (EACH)	611.0305* INLETS TYPE 8 (EACH)	611.0307* INLETS TYPE 9 (EACH)	611.0201* MANHOLES TYPE 1 (EACH)	611.0210* MANHOLES TYPE 3 (EACH)	SPV.0060.03* MODIFIED INLET TYPE 10 (EACH)	SPV.0060.01* MANHOLE 96-INCH DIAMETER (EACH)	522.1012* APRON ENDWALLS ** 12-INCH (EACH)	522.1018* APRON ENDWALLS ** 18-INCH (EACH)*	522.1024* APRON ENDWALLS ** 24-INCH (EACH)
0020																				
	3	28.0	16+75UW	17.0	RT	715.00	713.75	707.05						1						
	3	28.1	16+75UW	11.5	RT	714.68	713.68	709.50			1									
	3	28.2	16+75UW	11.5	LT	714.68	713.68	710.23			1									
	3	29.0	19+50UW	17.0	RT	697.45	696.20	689.30						1						
	3	29.1	19+50UW	12.2	RT	696.91	695.91	689.85			1									
	3	29.2	19+75UW	13.8	RT	695.20	694.20	690.10			1									
	3	29.3	19+75UW	13.8	LT	695.20	694.20	691.88			1									
	3	29.4	19+88.2UW	38.8	RT	-	-	688.42	-											1
	3	1.0	892+20.0	43.1	RT	743.05	742.22	740.66	740.50					1						
	2	1.1	892+20.0	3.6	LT	743.91	743.08	740.80	740.63		1									
	2	1.2	892+20.0	17.5	RT	743.51	742.68	740.73	740.57		1									
	3	1.3	892+50.0	43.3	RT	743.22	742.39	740.75	740.58		1									
	3	1.4	892+20.0	55.0	RT	-	-	740.50	-									1		
	3	2.0	13+49.8	24.6	RT	744.75	743.92	739.10	738.85					1						
	3	2.1	11+77.5	31.8	RT	746.41	746.41	742.73	742.56			1								
	3	2.2	13+49.9	22.5	LT	744.86	744.03	740.45	740.29					1						
	3	2.3	895+05.0	102.7	RT	744.50	743.67	740.74	740.58		1									
	2	3.0	896+31.5	104.8	LT	743.58	742.75	737.48	737.23					1						
	2	3.1	16+35.5	30.3	RT	743.73	742.90	738.96	738.79		1									
	2	3.2	16+24.0	32.9	LT	743.87	743.04	738.83	738.62					1						
	2	3.3	16+42.0	24.2	LT	743.89	743.06	739.53	739.36					1						
	2	3.4	17+41.6	13.8	LT	745.71	744.88	740.53	740.36					1						
	2	3.5	17+41.8	19.8	LT	744.68	744.68	740.59	740.42			1								
	2	4.0	896+33.4	13.7	LT	742.90	742.07	736.55	736.30						1					
	2	4.1	896+28.6	27.6	LT	743.10	742.27	736.70	736.45					1						
	2	5.0	896+84.5	16.4	LT	742.78	741.95	735.32	735.07						1					
	3	5.1	895+95.4	41.7	RT	741.17	741.17	737.57	737.40			1								
	3	5.2	896+82.8	9.2	RT	742.81	741.98	737.09	736.92		1									
	2	5.3	896+92.2	37.9	LT	742.42	741.59	737.88	737.71		1									
	2	6.0	898+30.0	3.8	LT	739.12	737.87	730.85	730.60					1						
	3	6.1	898+30.1	27.6	RT	738.00	738.00	732.81	732.64			1								
	2	6.2	898+30.0	10.8	LT	738.92	738.09	732.06	731.89		1									
	2	6.3	898+30.0	39.5	LT	738.92	738.09	733.08	732.91		1									
	2	7.0	901+39.9	4.9	LT	726.66	725.83	720.00	719.75					1						
	2	8.0	901+48.0	4.3	LT	726.33	725.50	717.73	717.48						1					
	3	8.1	901+48.0	26.6	RT	725.70	725.70	720.01	719.84			1								
	2	8.2	901+48.0	1.9	RT	726.31	725.48	719.01	718.84		1									
	2	8.3	901+48.0	28.4	LT	726.19	725.36	716.78	716.53					1						
	2	8.4	901+48.0	71.1	LT	-	-	715.05	-											1
	3	9.1	905+00.0	23.5	RT	711.73	711.73	706.11	705.94			1								
	2	9.2	905+50.0	49.2	LT	-	-	703.03	-									1		
	3	10.1	908+00.0	23.5	RT	699.83	699.83	696.86	696.70			1								
	2	10.2	908+25.0	33.2	LT	-	-	696.68	-									1		
	1	12.1	899+64.0	40.9	RT	738.49	732.24	727.32	726.99						1					
	1	12.2	902+50.0	41.1	RT	722.00	720.75	715.76	715.43						1					
	1	12.3	903+50.0	41.4	RT	-	-	715.51	-											
	2		886+75.0	34.5'	RT	-	-	-	-											
	2		894+46.0	90.3'	RT	-	-	-	-											
	2		899+64.0	40.9'	RT	-	-	-	-											
								TOTAL		6	31	9	2	15	15	3	2	5	4	5

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN

** FOR CULVERT PIPE REINFORCED CONCRETE ...

*** FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL

NOTE: MANHOLES HAVE VARIOUS TYPES OF INLET OPENINGS

STRUCTURES, MANHOLES, CULVERTS, AND PIPES (CONTINUED)

CATEGORY	STAGE	STRUCT. NO.	STA	OFFSET		RIM ELEVATION	TOP OF STRUCTURE ELEVATION	INVERT ELEVATION	SUMP ELEVATION	**611.0101*** CATCH BASINS TYPE 1 (EACH)	**611.0303*** INLETS TYPE 3 (EACH)	**611.0305*** INLETS TYPE 8 (EACH)	**611.0307*** INLETS TYPE 9 (EACH)	**611.0201*** MANHOLES TYPE 1 (EACH)	**611.0210*** MANHOLES TYPE 3 (EACH)	**SPV.0060.03*** MODIFIED INLET TYPE 10 (EACH)	**SPV.0060.01*** MANHOLE 96-INCH DIAMETER (EACH)	**522.1012*** APRON ENDWALLS ** 12-INCH (EACH)	**522.1018*** APRON ENDWALLS ** 18-INCH (EACH)*	**522.1024*** APRON ENDWALLS ** 24-INCH (EACH)
0020																				
	3	27.3	21+44.2UE	24.5	RT	682.63	681.38	676.85							1					
	3	27.4	21+60.6UE	54.8	RT			676.66												
	2	33.0	56+35.0RU	30.3	RT	669.50	669.50	667.25								1				
	2	33.1	56+15.0RU	30.0	RT			667.00												1
	3	28.0	16+75UW	17.0	RT	715.00	713.75	707.05						1						
	3	28.1	16+75UW	11.5	RT	714.68	713.68	709.50			1									
	3	28.2	16+75UW	11.5	LT	714.68	713.68	710.23			1									
	3	29.0	19+50UW	17.0	RT	697.45	696.20	689.30						1						
	3	29.1	19+50UW	12.2	RT	696.91	695.91	689.85			1									
	3	29.2	19+75UW	13.8	RT	695.20	694.20	690.10			1									
	3	29.3	19+75UW	13.8	LT	695.20	694.20	691.88			1									
	3	29.4	19+88.2UW	38.8	RT	-	-	688.42	-											1
	3	1.0	892+20.0	43.1	RT	743.05	742.22	740.66	740.50					1						
	2	1.1	892+20.0	3.6	LT	743.91	743.08	740.80	740.63		1									
	2	1.2	892+20.0	17.5	RT	743.51	742.68	740.73	740.57		1									
	3	1.3	892+50.0	43.3	RT	743.22	742.39	740.75	740.58		1									
	3	1.4	892+20.0	55.0	RT	-	-	740.50	-									1		
	3	2.0	13+49.8	24.6	RT	744.75	743.92	739.10	738.85					1						
	3	2.1	11+77.5	31.8	RT	746.41	746.41	742.73	742.56			1								
	3	2.2	13+49.9	22.5	LT	744.86	744.03	740.45	740.29					1						
	3	2.3	895+05.0	102.7	RT	744.50	743.67	740.74	740.58		1									
	2	3.0	896+31.5	104.8	LT	743.58	742.75	737.48	737.23					1						
	2	3.1	16+35.5	30.3	RT	743.73	742.90	738.96	738.79		1									
	2	3.2	16+24.0	32.9	LT	743.87	743.04	738.83	738.62					1						
	2	3.3	16+42.0	24.2	LT	743.89	743.06	739.53	739.36					1						
	2	3.4	17+41.6	13.8	LT	745.71	744.88	740.53	740.36					1						
	2	3.5	17+41.8	19.8	LT	744.68	744.68	740.59	740.42			1								
	2	4.0	896+33.4	13.7	LT	742.90	742.07	736.55	736.30						1					
	2	4.1	896+28.6	27.6	LT	743.10	742.27	736.70	736.45					1						
	2	5.0	896+84.5	16.4	LT	742.78	741.95	735.32	735.07						1					
	3	5.1	895+95.4	41.7	RT	741.17	741.17	737.57	737.40			1								
	3	5.2	896+82.8	9.2	RT	742.81	741.98	737.09	736.92		1									
	2	5.3	896+92.2	37.9	LT	742.42	741.59	737.88	737.71		1									
	2	6.0	898+30.0	3.8	LT	739.12	737.87	730.85	730.60					1						
	3	6.1	898+30.1	27.6	RT	738.00	738.00	732.81	732.64			1								
	2	6.2	898+30.0	10.8	LT	738.92	738.09	732.06	731.89		1									
	2	6.3	898+30.0	39.5	LT	738.92	738.09	733.08	732.91		1									
	2	7.0	901+39.9	4.9	LT	726.66	725.83	720.00	719.75					1						
	2	8.0	901+48.0	4.3	LT	726.33	725.50	717.73	717.48						1					
	3	8.1	901+48.0	26.6	RT	725.70	725.70	720.01	719.84			1								
	2	8.2	901+48.0	1.9	RT	726.31	725.48	719.01	718.84		1									
	2	8.3	901+48.0	28.4	LT	726.19	725.36	716.78	716.53					1						
	2	8.4	901+48.0	71.1	LT	-	-	715.05	-											1
	3	9.1	905+00.0	23.5	RT	711.73	711.73	706.11	705.94			1								
	2	9.2	905+50.0	49.2	LT	-	-	703.03	-									1		
	3	10.1	908+00.0	23.5	RT	699.83	699.83	696.86	696.70			1								
	2	10.2	908+25.0	33.2	LT	-	-	696.68	-									1		
	1	12.1	899+64.0	40.9	RT	733.49	732.24	727.32	726.99						1					
	1	12.2	902+50.0	41.1	RT	722.00	720.75	715.76	715.43						1					
	1	12.3	903+50.0	41.4	RT	-	-	715.51	-											
	2		886+75.0	34.5'	RT	-	-	-	-											
	2		894+46.0	90.3'	RT	-	-	-	-											
	2		899+64.0	40.9'	RT	-	-	-	-											
								SUBTOTAL 2		0	15	7	0	13	6	1	0	3	0	3
								TOTAL		6	34	9	2	19	12	3	2	5	3	5

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN

** FOR CULVERT PIPE REINFORCED CONCRETE ...

*** FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL

NOTE: MANHOLES HAVE VARIOUS TYPES OF INLET OPENINGS

Addendum No. 2
ID 9210-11-71
Revised Sheet 176
March 5, 2012

STRUCTURES, MANHOLES, CULVERTS, AND PIPES (CONTINUED)

CATEGORY	STAGE	STRUCT. NO	STA	OFFSET		522.1036* APRON ENDWALLS ** 36-INCH (EACH)	523.0519* APRON ENDWALLS *** 19X30-INCH (EACH)	523.0524* APRON ENDWALLS*** 24X38-INCH EACH	523.0534* APRON ENDWALLS*** 34X53-INCH EACH	611.0530* MANHOLE COVERS TYPE J (EACH)	611.0535* MANHOLE COVERS TYPE J-S (EACH)	611.0612* INLET COVERS TYPE C (EACH)	611.0624* INLET COVERS TYPE H (EACH)	611.0639* INLET COVERS TYPE H-S (EACH)	611.0642* INLET COVERS TYPE MS (EACH)	611.0652* INLET COVERS TYPE T (EACH)	611.8120.S* COVER PLATES TEMPORARY (EACH)	650.4000* CONSTRUCTION STAKING STORM SEWER (EACH)
0020																		
	2	15.0	1088+99.5	42.4	LT								1				1	1
	2	15.1	1088+61.4	52.9	LT									1				1
	2	15.2	1088+26.0	25.5	LT								1					1
	3	15.3	1088+26.0	25.5	RT								1					1
	2	30.1	1088+42.3	60.5	LT										3			1
	2	30.2	1089+55.3	60.5	LT							1						1
	2	31.0	1089+87.3	61.7	LT										2			1
	2	32.0	1092+92.8	65.1	LT				1									1
	2	32.1	1092+71.1	54.6	LT					1								1
	2	32.2	1091.87.3	60.2	LT										2			1
	2	17.0	1091+00.0	34.0	LT					1								1
	2	17.1	1091+00.0	25.5	LT								1					1
	3	17.2	1091+00.0	25.5	RT								1					1
	2	18.0	1093+47.0	34.0	LT					1								1
	2	18.1	1093+47.0	25.5	LT									1				1
	2	18.2	1093+37.0	25.5	LT								1					1
	3	18.3	1093+47.0	25.5	RT									1				1
	3	18.4	1093+37.0	25.5	RT								1					1
	2	19.0	1096+15.1	34.0	LT					1								1
	2	19.1	1096+15.1	25.5	LT								1					1
	2	19.2	1096+15.1	25.5	RT								1					1
	2	19.3	1096+20.9	83.6	LT		1											1
	2	20.0	1104+49.1	67.4	RT													1
	2	20.1	1104+34.4	70.4	RT									1				1
	2	20.2	1103+89.3	71.3	RT									1				1
	2	20.3	1103+48.8	25.5	RT								1					1
	2	20.4	1103+48.8	25.5	LT								1					1
	2	20.5	1103+42.1	37.2	LT													1
	2	21.0	1105+48.0	25.5	RT									1				1
	2	21.1	1105+58.0	25.5	RT								1					1
	2	21.2	1105+45.1	38.1	RT													1
	2	21.3	1105+48.0	25.5	LT									1				1
	2	21.4	1105+58.0	25.5	LT								1					1
	2	21.5	1105+48.0	34.0	LT													1
	2	22.0	1109+50.0	18.0	LT						1							1
	3	22.1	1109+30.0	49.0	RT										1			1
	2	22.2	1108+00.0	25.5	LT								1					1
	3	22.3	1108+00.0	25.5	RT								1					1
	3	22.4	1107+52.8	44.7	RT													1
	2	23.0	1111+19.0	18.0	LT						1							1
	3	24.4	1112+81.8	24.1	RT								1					1
	2	23.2	1111+19.0	25.5	LT								1					1
	1	24.0	1112+73.0	18.0	LT						1						1	1
	1	24.1	1112+91.8	23.7	RT								1				1	1
	1	24.2	1113+06.2	36.2	RT													1
	2	24.3	1112+81.4	31.9	LT													1
	1	26.1	23+45.8UE	36.1	RT										1			1
	1	26.2	22+01.9UE	25.6	RT					1								1
	1	26.3	21+68.4UE	55.6	RT													1
	3	27.1	21+50.7UE	45.1	LT										3			1
	3	27.2	21+49.7UE	31.1	LT							1						1
	3	27.3	21+44.2UE	24.5	RT						1							1
	3	27.4	21+60.6UE	54.8	RT			1										1
	2	33.0	56+35.0RU	30.3	RT										3			1
	2	33.1	56+15.0RU	30.0	RT													1
					TOTAL	--	--	--	--	--	--	--	--	--	--	--	--	--

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN ** FOR CULVERT PIPE REINFORCED CONCRETE ... *** FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL NOTE: MANHOLES HAVE VARIOUS TYPES OF INLET OPENINGS

STRUCTURES, MANHOLES, CULVERTS, AND PIPES (CONTINUED)

CATEGORY	STAGE	STRUCT. NO.	STA	OFFSET		522.1036* APRON ENDWALLS ** 36-INCH (EACH)	523.0519* APRON ENDWALLS *** 19X30-INCH (EACH)	523.0524* APRON ENDWALLS*** 24X38-INCH EACH	523.0534* APRON ENDWALLS*** 34X53-INCH EACH	611.0530* MANHOLE COVERS TYPE J (EACH)	611.0535* MANHOLE COVERS TYPE J-S (EACH)	611.0612* INLET COVERS TYPE C (EACH)	611.0624* INLET COVERS TYPE H (EACH)	611.0639* INLET COVERS TYPE H-S (EACH)	611.0642* INLET COVERS TYPE MS (EACH)	611.0652* INLET COVERS TYPE T (EACH)	611.8120.S* COVER PLATES TEMPORARY (EACH)	650.4000* CONSTRUCTION STAKING STORM SEWER (EACH)
0020																		
	2	15.0	1088+99.5	42.4	LT								1				1	1
	2	15.1	1088+61.4	52.9	LT									1				1
	2	15.2	1088+26.0	25.5	LT								1					1
	3	15.3	1088+26.0	25.5	RT								1					1
	2	30.1	1088+42.3	60.5	LT										3			1
	2	30.2	1089+55.3	60.5	LT							1						1
	2	31.0	1089+87.3	61.7	LT										2			1
	2	32.0	1092+92.8	65.1	LT				1									1
	2	32.1	1092+71.1	54.6	LT					1								1
	2	32.2	1091.87.3	60.2	LT										2			1
	2	17.0	1091+00.0	34.0	LT					1								1
	2	17.1	1091+00.0	25.5	LT								1					1
	3	17.2	1091+00.0	25.5	RT								1					1
	2	18.0	1093+47.0	34.0	LT					1								1
	2	18.1	1093+47.0	25.5	LT									1				1
	2	18.2	1093+37.0	25.5	LT								1					1
	3	18.3	1093+47.0	25.5	RT									1				1
	3	18.4	1093+37.0	25.5	RT								1					1
	2	19.0	1096+15.1	34.0	LT					1								1
	2	19.1	1096+15.1	25.5	LT								1					1
	2	19.2	1096+15.1	25.5	RT								1					1
	2	19.3	1096+20.9	83.6	LT		1											1
	2	20.0	1104+49.1	67.4	RT													1
	2	20.1	1104+34.4	70.4	RT									1				1
	2	20.2	1103+89.3	71.3	RT									1				1
	2	20.3	1103+48.8	25.5	RT								1					1
	2	20.4	1103+48.8	25.5	LT								1					1
	2	20.5	1103+42.1	37.2	LT													1
	2	21.0	1105+48.0	25.5	RT									1				1
	2	21.1	1105+58.0	25.5	RT								1					1
	2	21.2	1105+45.1	38.1	RT													1
	2	21.3	1105+48.0	25.5	LT									1				1
	2	21.4	1105+58.0	25.5	LT								1					1
	2	21.5	1105+48.0	34.0	LT													1
	2	42.0	1109+50.0	18.0	LT						1							1
	3	42.1	1109+30.0	25.5	RT								1					1
	3	42.2	1109+30.0	49.0	RT										1			1
	2	41.0	1108+00.0	25.5	LT								1					1
	3	40.0	1108+00.0	25.5	RT								1					1
	3	40.1	1107+52.8	44.7	RT													1
	2	43.0	1110+15.0	6.0	LT						1							1
	2	44.0	1111+19.0	18.0	LT						1							1
	3	45.3	1112+82.0	24.1	RT								1					1
	2	44.1	1111+19.0	25.5	LT								1					1
	1	45.0	1112+81.5	18.0	LT						1						1	1
	1	45.1	1112+92.0	23.7	RT								1				1	1
	1	45.2	1113+05.4	34.4	RT													1
	2	45.4	1112+82.0	24.1	LT								1					1
	2	45.5	1112+92.0	23.7	LT								1					1
	1	26.1	23+45.8UE	36.1	RT										1			1
	1	26.2	22+01.9UE	25.6	RT					1								1
	1	26.3	21+68.4UE	55.6	RT													1
	3	27.1	21+50.7UE	45.1	LT										3			1
	3	27.2	21+49.7UE	31.1	LT							1						1
				SUBTOTAL	1	0	1	0	1	5	4	2	21	7	12	0	3	54

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN ** FOR CULVERT PIPE REINFORCED CONCRETE ... *** FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL NOTE: MANHOLES HAVE VARIOUS TYPES OF INLET OPENINGS

Addendum No. 2
ID 9210-11-71
Revised Sheet 177
March 5, 2012

STRUCTURES, MANHOLES, CULVERTS, AND PIPES (CONTINUED)

CATEGORY	STAGE	STRUCT. NO.	STA	OFFSET		522.1036* APRON ENDWALLS ** 36-INCH (EACH)	523.0519* APRON ENDWALLS*** 19X30-INCH (EACH)	523.0524* APRON ENDWALLS*** 24X38-INCH (EACH)	523.0534* APRON ENDWALLS*** 34X53-INCH (EACH)	611.0530* MANHOLE COVERS TYPE J (EACH)	611.0535* MANHOLE COVERS TYPE J-S (EACH)	611.0612* INLET COVERS TYPE C (EACH)	611.0624* INLET COVERS TYPE H (EACH)	611.0639* INLET COVERS TYPE H-S (EACH)	611.0642* INLET COVERS TYPE MS (EACH)	611.0652* INLET COVERS TYPE T (EACH)	611.8120.S* COVER PLATES TEMPORARY (EACH)	650.4000* CONSTRUCTION STAKING STORM SEWER (EACH)
0020																		
	3	28.0	16+75UW	17.0	RT					1								1
	3	28.1	16+75UW	11.5	RT								1					1
	3	28.2	16+75UW	11.5	LT								1					1
	3	29.0	19+50UW	17.0	RT					1								1
	3	29.1	19+50UW	12.2	RT								1					1
	3	29.2	19+75UW	13.8	RT								1					1
	3	29.3	19+75UW	13.8	LT								1					1
	3	29.4	19+88.2UW	38.8	RT													1
	3	1.0	892+20.0	43.1	RT									1				1
	2	1.1	892+20.0	3.6	LT									1				1
	2	1.2	892+20.0	17.5	RT									1				1
	3	1.3	892+50.0	43.3	RT								1					1
	3	1.4	892+20.0	55.0	RT													1
	3	2.0	13+49.8	24.6	RT								1					1
	3	2.1	11+77.5	31.8	RT										1			1
	3	2.2	13+49.9	22.5	LT								1					1
	3	2.3	895+05.0	102.7	RT								1					1
	2	3.0	896+31.5	104.8	LT								1					1
	2	3.1	16+35.5	30.3	RT								1					1
	2	3.2	16+24.0	32.9	LT								1					1
	2	3.3	16+42.0	24.2	LT								1					1
	2	3.4	17+41.6	13.8	LT								1					1
	2	3.5	17+41.8	23.7	LT										1			1
	2	4.0	896+33.4	13.7	LT											1	1	1
	2	4.1	896+28.6	27.6	LT											1	1	1
	2	5.0	896+84.5	16.4	LT								1					1
	3	5.1	895+95.4	41.7	RT										1			1
	3	5.2	896+82.8	9.2	RT								1					1
	2	5.3	896+92.2	37.9	LT								1				1	1
	2	6.0	898+30.0	3.8	LT					1								1
	3	6.1	898+30.1	27.6	RT										1			1
	2	6.2	898+30.0	10.8	LT								1					1
	2	6.3	898+30.0	39.5	LT								1				1	1
	2	7.0	901+39.9	4.9	LT								1					1
	2	8.0	901+48.0	4.3	LT								1					1
	3	8.1	901+48.0	26.6	RT										1			1
	2	8.2	901+48.0	1.9	RT								1					1
	2	8.3	901+48.0	28.4	LT								1				1	1
	2	8.4	901+48.0	71.1	LT													1
	3	9.1	905+00.0	23.5	RT										1			1
	2	9.2	905+50.0	49.2	LT													1
	3	10.1	908+00.0	23.5	RT										1			1
	2	10.2	908+25.0	33.2	LT													1
	1	12.1	899+64.0	40.9	RT					1								1
	1	12.2	902+50.0	41.1	RT					1							1	1
	1	12.3	903+50.0	41.4	RT	1												1
	2		886+75.0	34.5'	RT												1	
	2		894+46.0	90.3'	RT												1	
	2		899+64.0	40.9'	RT												1	
				TOTAL		1	1	1	1	10	4	2	41	10	22	2	12	101

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN ** FOR CULVERT PIPE REINFORCED CONCRETE ...*** FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL NOTE: MANHOLES HAVE VARIOUS TYPES OF INLET OPENINGS

STRUCTURES, MANHOLES, CULVERTS, AND PIPES (CONTINUED)

CATEGORY	STAGE	STRUCT. NO.	STA	OFFSET		522.1036* APRON ENDWALLS ** 36-INCH (EACH)	523.0519* APRON ENDWALLS*** 19X30-INCH (EACH)	523.0524* APRON ENDWALLS*** 24X38-INCH (EACH)	523.0534* APRON ENDWALLS*** 34X53-INCH (EACH)	611.0530* MANHOLE COVERS TYPE J (EACH)	611.0535* MANHOLE COVERS TYPE J-S (EACH)	611.0612* INLET COVERS TYPE C (EACH)	611.0624* INLET COVERS TYPE H (EACH)	611.0639* INLET COVERS TYPE H-S (EACH)	611.0642* INLET COVERS TYPE MS (EACH)	611.0652* INLET COVERS TYPE T (EACH)	611.8120.S* COVER PLATES TEMPORARY (EACH)	650.4000* CONSTRUCTION STAKING STORM SEWER (EACH)
0020																		
	3	27.3	21+44.2UE	24.5	RT						1							1
	3	27.4	21+60.6UE	54.8	RT			1										1
	2	33.0	56+35.0RU	30.3	RT										3			1
	2	33.1	56+15.0RU	30.0	RT													1
	3	28.0	16+75UW	17.0	RT					1								1
	3	28.1	16+75UW	11.5	RT								1					1
	3	28.2	16+75UW	11.5	LT								1					1
	3	29.0	19+50UW	17.0	RT					1								1
	3	29.1	19+50UW	12.2	RT								1					1
	3	29.2	19+75UW	13.8	RT								1					1
	3	29.3	19+75UW	13.8	LT								1					1
	3	29.4	19+88.2UW	38.8	RT													1
	3	1.0	892+20.0	43.1	RT									1				1
	2	1.1	892+20.0	3.6	LT									1				1
	2	1.2	892+20.0	17.5	RT									1				1
	3	1.3	892+50.0	43.3	RT								1					1
	3	1.4	892+20.0	55.0	RT													1
	3	2.0	13+49.8	24.6	RT								1					1
	3	2.1	11+77.5	31.8	RT										1			1
	3	2.2	13+49.9	22.5	LT								1					1
	3	2.3	895+05.0	102.7	RT								1					1
	2	3.0	896+31.5	104.8	LT								1					1
	2	3.1	16+35.5	30.3	RT								1					1
	2	3.2	16+24.0	32.9	LT								1					1
	2	3.3	16+42.0	24.2	LT								1					1
	2	3.4	17+41.6	13.8	LT								1					1
	2	3.5	17+41.8	23.7	LT										1			1
	2	4.0	896+33.4	13.7	LT											1	1	1
	2	4.1	896+28.6	27.6	LT											1	1	1
	2	5.0	896+84.5	16.4	LT								1					1
	3	5.1	895+95.4	41.7	RT										1			1
	3	5.2	896+82.8	9.2	RT								1					1
	2	5.3	896+92.2	37.9	LT								1				1	1
	2	6.0	898+30.0	3.8	LT					1								1
	3	6.1	898+30.1	27.6	RT										1			1
	2	6.2	898+30.0	10.8	LT								1					1
	2	6.3	898+30.0	39.5	LT								1				1	1
	2	7.0	901+39.9	4.9	LT								1					1
	2	8.0	901+48.0	4.3	LT								1					1
	3	8.1	901+48.0	26.6	RT										1			1
	2	8.2	901+48.0	1.9	RT								1					1
	2	8.3	901+48.0	28.4	LT								1				1	1
	2	8.4	901+48.0	71.1	LT													1
	3	9.1	905+00.0	23.5	RT										1			1
	2	9.2	905+50.0	49.2	LT													1
	3	10.1	908+00.0	23.5	RT										1			1
	2	10.2	908+25.0	33.2	LT													1
	1	12.1	899+64.0	40.9	RT					1								1
	1	12.2	902+50.0	41.1	RT					1							1	1
	1	12.3	903+50.0	41.4	RT	1												1
	2		886+75.0	34.5'	RT												1	
	2		894+46.0	90.3'	RT												1	
	2		899+64.0	40.9'	RT												1	
				SUBTOTAL 2		1	0	1	0	5	1	0	23	3	10	2	9	50
				TOTAL		1	1	1	1	10	5	2	44	10	22	2	12	104

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN ** FOR CULVERT PIPE REINFORCED CONCRETE ...*** FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL NOTE: MANHOLES HAVE VARIOUS TYPES OF INLET OPENINGS

Addendum No. 2
ID 9210-11-71
Revised Sheet 178
March 5, 2012

PIPE UNDERDRAIN

CATEGORY	STAGE	STATION - STATION	LOCATION	612.0406 PIPE UNDERDRAIN WRAPPED 6-INCH (LF)	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH (EA)
0020					
	3	1087+62 - 1095+11	RT	775	
	3	1095+48 - 1097+29	RT	190	
	3	1095+67 - 1097+81	RT	225	
	2	1096+74 - 1098+62	LT	205	
	2	1096+76 - 1098+66	LT	215	
	2	1097+78 - 1097+88	LT	75	
	2	1101+81 - 1105+26	LT	375	
	3	204+29.4SP	16.2 'LT		1
	3	206+47.3SP	28.5' LT		1
	2	52+71.2RU	30.2' RT		1
	2	56+14.3RU	12.7' RT		1
	2	80+44.8EP	30.2' RT		1
	2	82+05.4EP	23.9' RT		1
			TOTAL	2060	6

CRASH CUSHIONS

CATEGORY	STAGE	STATION	LOCATION	614.0905 CRASH CUSHIONS TEMPORARY (EACH)
0020				
	1	1093+25	RT	1
			TOTAL	1

FENCE CHAIN LINK

CATEGORY	STAGE	STATION - STATION	LOCATION	616.0206 FENCE CHAIN LINK 6 -FT (LF)	SPV.0090.01 FENCE CHAIN LINK VINYL COATED 6-FOOT (LF)
0020					
	3	902+31 - 908+81	RT	650	
	3	1109+38 - 1113+01	RT		565
			TOTAL	650	565

ROCK BAGS

CATEGORY	STAGE	STATION	LOCATION	628.7570 ROCK BAGS (EA)
0020				
	2,3	1087+00	LT/RT	40
	3	1087+50	RT	20
	3	1088+00	RT	20
	3	1088+50	RT	20
	3	1089+00	RT	20
	3	1089+50	RT	20
	3	1090+00	RT	20
	3	1090+50	RT	20
	3	1091+00	RT	20
	3	1091+50	RT	20
	2	1094+00	LT	20
	2	1095+00	LT	20
	2	1096+25	RT	20
	2	1096+75	RT	20
	2	1098+25	LT	20
	2	1099+25	LT	20
	2	1099+75	LT	20
	2	1103+25	LT	20
	2	1104+50	LT	20
	2	209+00SP	LT	20
	3	209+50SP	RT	20
	3	211+75SP	RT	20
	3	886+50	RT	20
	4	890+00	LT	20
	3	891+00	RT	20
	4	899+50	LT	20
	4	900+00	LT	20
	4	900+50	LT	20
	4	901+00	LT	20
	4	901+50	LT	20
	4	902+00	LT	20
	3,4	902+50	LT/RT	40
	4	903+00	LT	20
	4	903+50	LT	20
	3,4	904+00	LT/RT	40
	3	904+50	RT	20
	3	905+00	RT	20
	3	905+50	RT	20
	3	906+00	RT	20
	3	906+50	RT	20
	4	907+00	LT	20
	4	908+00	LT	20
	4	908+50	LT	20
	3,4	909+00	LT/RT	40
	3,4	909+50	LT/RT	40
	3,4	910+00	LT/RT	40
		UNDISTRIBUTED AMOUNT (25%		260
			TOTAL	1300

BEAM GUARD

CATEGORY	STAGE	STATION - STATION	SIDE	LOCATION	614.2300 MGS GUARDRAIL 3 (LF)	614.2310 MGS GUARDRAIL 3 HS (LF)	614.2320 MGS GUARDRAIL 3 QS (LF)	614.2330 MGS GUARDRAIL 3 K (LF)	614.2500 MGS THRIE BEAM TRANSITION (LF)	614.2610 MGS GUARDRAIL TERMINAL EAT (EACH)
0020										
	2		RT	SW CORNER OF BRIDGE		12.5	6.25	12.5	6.25	1
	2		LT	NW CORNER OF BRIDGE		12.5	6.25	12.5	6.25	1
	2		LT	NE CORNER OF BRIDGE		12.5	6.25	12.5	6.25	1
	2		RT	SE CORNER OF BRIDGE			6.25	12.5	6.25	1
	3	902+31 - 902+81	RT	STH 54 - EAST LEG						1
	3	902+81 - 908+31	RT	STH 54 - EAST LEG	550					
	3	908+31 - 908+81	RT	STH 54 - EAST LEG						1
				TOTAL	550	38	25	50	25	6

CONCRETE MEDIAN

CATEGORY	STAGE	STATION	LOCATION	620.0300 CONCRETE MEDIAN SLOPED NOSE (SF)	REMARKS
0020					
	4	1088+80	LT	9	
		1089+01	LT	9	
		21+38UW	RT	9	
		890+29	-	40	TYPE 2
		894+72	RT	33	TYPE 1
		894+72	LT	48	TYPE 1
		895+33	RT	40	TYPE 2
		895+33	RT	48	TYPE 1
		895+58	RT	33	TYPE 1
		895+79	LT	35	TYPE 1
		896+02	LT	40	TYPE 2
		896+01	LT	48	TYPE 1
		896+70	RT	48	TYPE 1
		896+70	LT	35	TYPE 1
		901+50	-	40	TYPE 2
			TOTAL	515	

DUST CONTROL SURFACE TREATMENT

CATEGORY	STAGE	LOCATION	623.0200 DUST CONTROL SURFACE TREATMENT (SY)
0020			
	1	PROJECT	12000
	2	PROJECT	14000
	3	PROJECT	12000
	4	PROJECT	1000
		TOTAL	39000

WATER

CATEGORY	STAGE	LOCATION	624.0100 WATER (MGAL)
0020			
	1	PROJECT	7
	2	PROJECT	53
	3	PROJECT	28
	4	PROJECT	5
	2	STH WEST END	164
	2	STH 54 ROUNDABOUT	126
	2	STH EAST END	208
	3	STH WEST END	163
	3	STH ROUNDABOUT	125
	3	STH EAST END	207
	3	SEMINARY SOUTH	80
	2	SEMINARY NORTH	134
		TOTAL	1,300

SOD WATER

CATEGORY	STAGE	LOCATION	631.0300 SOD WATER (MGAL)
0020			
	2	PROJECT	5
		TOTAL	5

PIPE UNDERDRAIN

CATEGORY	STAGE	STATION - STATION	LOCATION	612.0406 PIPE UNDERDRAIN WRAPPED 6-INCH (LF)	612.0806 APRON ENDWALLS FOR UNDERDRAIN REINFORCED CONCRETE 6-INCH (EA)
0020					
	3	1087+62 - 1095+11	RT	775	
	3	1095+48 - 1097+29	RT	190	
	3	1095+67 - 1097+81	RT	225	
	2	1096+74 - 1098+62	LT	205	
	2	1096+76 - 1098+66	LT	215	
	2	1097+78 - 1097+88	LT	75	
	2	1101+81 - 1105+26	LT	375	
	3	204+29.4SP	16.2 'LT		1
	3	206+47.3SP	28.5' LT		1
	2	52+71.2RU	30.2' RT		1
	2	56+14.3RU	12.7' RT		1
	2	80+44.8EP	30.2' RT		1
	2	82+05.4EP	23.9' RT		1
			TOTAL	2060	6

CRASH CUSHIONS

CATEGORY	STAGE	STATION	LOCATION	614.0905 CRASH CUSHIONS TEMPORARY (EACH)
0020				
	1	1093+25	RT	1
			TOTAL	1

FENCE CHAIN LINK

CATEGORY	STAGE	STATION - STATION	LOCATION	616.0206 FENCE CHAIN LINK 6 -FT (LF)	SPV.0090.01 FENCE CHAIN LINK VINYL COATED 6-FOOT (LF)
0020					
	3	902+31 - 908+81	RT	650	
	3	1109+38 - 1113+01	RT		565
			TOTAL	650	565

BEAM GUARD

CATEGORY	STAGE	STATION - STATION	SIDE	LOCATION	614.2300 MGS GUARDRAIL 3 (LF)	614.2310 MGS GUARDRAIL 3 HS (LF)	614.2320 MGS GUARDRAIL 3 QS (LF)	614.2330 MGS GUARDRAIL 3 K (LF)	614.2500 MGS THRIE BEAM TRANSITION (LF)	614.2610 MGS GUARDRAIL TERMINAL EAT (EACH)
0020										
	2		RT	SW CORNER OF BRIDGE		12.5	6.25	12.5	6.25	1
	2		LT	NW CORNER OF BRIDGE		12.5	6.25	12.5	6.25	1
	2		LT	NE CORNER OF BRIDGE		12.5	6.25	12.5	6.25	1
	2		RT	SE CORNER OF BRIDGE			6.25	12.5	6.25	1
	3	902+31 - 902+81	RT	STH 54 - EAST LEG						1
	3	902+81 - 908+31	RT	STH 54 - EAST LEG	550					
	3	908+31 - 908+81	RT	STH 54 - EAST LEG						1
				TOTAL	550	38	25	50	25	6

CONCRETE MEDIAN

CATEGORY	STAGE	STATION	LOCATION	620.0300 CONCRETE MEDIAN SLOPED NOSE (SF)	REMARKS
0020					
	4	1088+80	LT	9	
		1089+01	LT	9	
		21+38UW	RT	9	
		890+29	-	40	TYPE 2
		894+72	RT	33	TYPE 1
		894+72	LT	48	TYPE 1
		895+33	RT	40	TYPE 2
		895+33	RT	48	TYPE 1
		895+58	RT	33	TYPE 1
		895+79	LT	35	TYPE 1
		896+02	LT	40	TYPE 2
		896+01	LT	48	TYPE 1
		896+70	RT	48	TYPE 1
		896+70	LT	35	TYPE 1
		901+50	-	40	TYPE 2
			TOTAL	515	

DUST CONTROL SURFACE TREATMENT

CATEGORY	STAGE	LOCATION	623.0200 DUST CONTROL SURFACE TREATMENT (SY)
0020			
	1	PROJECT	12000
	2	PROJECT	14000
	3	PROJECT	12000
	4	PROJECT	1000
		TOTAL	39000

WATER

CATEGORY	STAGE	LOCATION	624.0100 WATER (MGAL)
0020			
	1	PROJECT	14
	2	PROJECT	104
	3	PROJECT	55
	4	PROJECT	9
	1	STH WEST END	166
	1	STH 54 ROUNDABOUT	81
	1	STH EAST END	113
	2	STH WEST END	202
	2	STH 54 ROUNDABOUT	137
	2	STH EAST END	302
	3	STH WEST END	139
	3	STH ROUNDABOUT	112
	3	STH EAST END	174
	4	STH ROUNDABOUT	7
	4	STH EAST END	2
	3	SEMINARY SOUTH	61
	2	SEMINARY NORTH	122
		TOTAL	1,800

ROCK BAGS

CATEGORY	STAGE	STATION	LOCATION	628.7570 ROCK BAGS (EA)
0020				
	2,3	1087+00	LT/RT	40
	3	1087+50	RT	20
	3	1088+00	RT	20
	3	1088+50	RT	20
	3	1089+00	RT	20
	3	1089+50	RT	20
	3	1090+00	RT	20
	3	1090+50	RT	20
	3	1091+00	RT	20
	3	1091+50	RT	20
	2	1094+00	LT	20
	2	1095+00	LT	20
	2	1096+25	RT	20
	2	1096+75	RT	20
	2	1098+25	LT	20
	2	1099+25	LT	20
	2	1099+75	LT	20
	2	1103+25	LT	20
	2	1104+50	LT	20
	2	209+00SP	LT	20
	3	209+50SP	RT	20
	3	211+75SP	RT	20
	3	886+50	RT	20
	4	890+00	LT	20
	3	891+00	RT	20
	4	899+50	LT	20
	4	900+00	LT	20
	4	900+50	LT	20
	4	901+00	LT	20
	4	901+50	LT	20
	4	902+00	LT	20
	3,4	902+50	LT/RT	40
	4	903+00	LT	20
	4	903+50	LT	20
	3,4	904+00	LT/RT	40
	3	904+50	RT	20
	3	905+00	RT	20
	3	905+50	RT	20
	3	906+00	RT	20
	3	906+50	RT	20
	4	907+00	LT	20
	4	908+00	LT	20
	4	908+50	LT	20
	3,4	909+00	LT/RT	40
	3,4	909+50	LT/RT	40
	3,4	910+00	LT/RT	40
		JNDISTRIBUTED AMOUNT (25%		260
			TOTAL	1300

SOD WATER

CATEGORY	STAGE	LOCATION	631.0300 SOD WATER (MGAL)
0020			
	2	PROJECT	5
		TOTAL	5

Addendum No. 2
ID 9210-11-71
Revised Sheet 179
March 5, 2012

EROSION CONTROL

CATEGORY	STAGE	STATION	-	STATION	LOCATION	628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)	628.1905 MOBILIZATIONS EROSION CONTROL (EACH)	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL (EACH)	628.2004 EROSION MAT CLASS I TYPE B (SY)	628.2008 EROSION MAT URBAN CLASS I TYPE B (SY)	628.6005 TURBIDITY BARRIERS (SY)	628.6510 SOIL STABILIZER TYPE B (ACRE)	628.7005 INLET PROTECTION TYPE A (EACH)	628.7010 INLET PROTECTION TYPE B (EACH)	628.7015 INLET PROTECTION TYPE C (EACH)	628.7555 CULVERT PIPE CHECKS (EACH)	631.1100 SOD EROSION CONTROL (SY)
0020																		
	1	1086+61.00	-	1099+25.00	RT	1255	1255	3	3	1395	542	176	1			5	10	
	2	1086+61.00	-	1099+25.00	LT	1088	1088	3	3	2860	3139	71	0.5	2	3	7	20	
	1,2	1098+50	-	1113+00.00	RT	126	126	3	3	3065		167	1	1		6	10	
	2	1098+50	-	1113+00.00	LT	1500	1500	3	3	127	684	161	1			5	20	26
	3	16+50UW	-	21+88UW	LT/RT	538	538	3	3	732			1			5		
	3	40+00AS	-	41+50AS	LT/RT	351	351	1	1								20	
	1	20+00UE	-	24+00UE	LT/RT	50	50	1	1					3	2	2	10	
	1	30+20ES	-	32+00ES	LT/RT	344	344	1	1						1			
	3	207+80SP	-	214+50SP	LT/RT	698	698			330							10	
	2	886+00	-	894+50	LT	760	760				2177						30	
	1	886+00	-	894+50	RT	849	849											
	1	894+50	-	895+50	RT	84	84											
	2	894+50	-	895+80	LT	157	157											
	1	895+61	-	896+77	RT	182	182											
	2	896+05	-	896+77	LT	81	81											
	3	896+77	-	910+00	RT	1320	1320			1742								
	2	896+77	-	910+00	LT	1312	1312			1873							10	
	1	11+00	-	13+75	RT	272	272	1	1									
	2	11+00	-	13+75	LT	270	270	1	1									
	1	16+25	-	20+45	RT	151	151	1	1									
	2	16+25	-	20+45	LT	345	345	1	1		165							
	2,3	886+00	-	910+00	*****			6	6					8		21		
		UNDISTRIBUTED AMOUNT (25%)				2967	2967	7	7	3076	1693	150	1	4	1	12	40	9
					TOTAL	14700	14700	35	35	15200	8400	725	5.5	18	7	63	180	35

*****REFER TO EROSION CONTROL PLAN SHEETS FOR LOCATION

EROSION CONTROL

CATEGORY	STAGE	STATION	-	STATION	LOCATION	628.1504 SILT FENCE (LF)	628.1520 SILT FENCE MAINTENANCE (LF)	628.1905 MOBILIZATIONS EROSION CONTROL (EACH)	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL (EACH)	628.2004 EROSION MAT CLASS I TYPE B (SY)	628.2008 EROSION MAT URBAN CLASS I TYPE B (SY)	628.6005 TURBIDITY BARRIERS (SY)	628.6510 SOIL STABILIZER TYPE B (ACRE)	628.7005 INLET PROTECTION TYPE A (EACH)	628.7010 INLET PROTECTION TYPE B (EACH)	628.7015 INLET PROTECTION TYPE C (EACH)	628.7555 CULVERT PIPE CHECKS (EACH)	631.1100 SOD EROSION CONTROL (SY)
0020																		
	1	1086+61.00	-	1099+25.00	RT	1255	1255	3	3	1395	542	176	1			5	10	
	2	1086+61.00	-	1099+25.00	LT	1088	1088	3	3	2860	3139	71	0.5	2	3	7	20	
	1,2	1098+50	-	1113+00.00	RT	126	126	3	3	3065		167	1	1		7	10	
	2	1098+50	-	1113+00.00	LT	1500	1500	3	3	127	684	161	1			7	10	26
	3	16+50UW	-	21+88UW	LT/RT	538	538	3	3	732			1			5		
	3	40+00AS	-	41+50AS	LT/RT	351	351	1	1								20	
	1	20+00UE	-	24+00UE	LT/RT	50	50	1	1					3	2	2	10	
	1	30+20ES	-	32+00ES	LT/RT	344	344	1	1						1			
	3	207+80SP	-	214+50SP	LT/RT	698	698			330							10	
	2	886+00	-	894+50	LT	760	760				2177						30	
	1	886+00	-	894+50	RT	849	849											
	1	894+50	-	895+50	RT	84	84											
	2	894+50	-	895+80	LT	157	157											
	1	895+61	-	896+77	RT	182	182											
	2	896+05	-	896+77	LT	81	81											
	3	896+77	-	910+00	RT	1320	1320			1742								
	2	896+77	-	910+00	LT	1312	1312			1873							10	
	1	11+00	-	13+75	RT	272	272	1	1									
	2	11+00	-	13+75	LT	270	270	1	1									
	1	16+25	-	20+45	RT	151	151	1	1									
	2	16+25	-	20+45	LT	345	345	1	1		165							
	2,3	886+00	-	910+00	*****			6	6					8		21		
		UNDISTRIBUTED AMOUNT (25%)				2967	2967	7	7	3076	1693	150	1	4	1	14	40	9
					TOTAL	14700	14700	35	35	15200	8400	725	5.5	18	7	68	170	35

*****REFER TO EROSION CONTROL PLAN SHEETS FOR LOCATION

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Addendum No. 2
ID 9210-11-71
Revised Sheet 180
March 5, 2012

SALVAGED TOPSOIL, MULCHING, FERTILIZER, AND SEEDING

CATEGORY	STAGE	STATION	-	STATION	LOCATION	625.0100* TOPSOIL (SY)	625.0105 TOPSOIL (CY)	625.0500 SALVAGED TOPSOIL (SY)	627.0200* MULCHING (SY)	629.0210* FERTILIZER TYPE B (CWT)	630.0130 SEEDING MIXTURE NO. 30 (LB)	630.0140 SEEDING MIXTURE NO. 40 (LB)	630.0200 SEEDING TEMPORARY (LB)	SPV.0085.01* SPECIAL LOW MAINTENANCE SEED MIX (LBS)	SPV.0035.01 ENGINEERED SOIL (CY)
0020															
	4	886+00	-	894+50	LT	109		1834	3138	2.0		56	38		
	3	886+00	-	894+50	RT	60		1361	2080	1.4		37	25		
	2	890+29	-	894+00	ISLAND	550			550	1.0				10	
	3	894+50	-	895+50	RT			126	126	0.1		2	2		
	3	895+40	-	895+60	RT	4			48	0.1	1				
	4	895+78	-	896+02	LT	3			40	0.1	1				
	4	894+50	-	895+80	LT			194	194	0.2		3	2		
	4	895+25	-	896+19	ISLAND(CENTER)		50			1.0					
	3	895+61	-	896+77	RT			138	138	0.1		2	2		
	4	896+05	-	896+77	LT			451	451	0.3		8	5		
	3	897+50	-	901+52	ISLAND	555			555	1.0				10	
	3	896+77	-	910+00	RT	104		2234	3483	2.2		63	42		
	4	896+77	-	910+00	LT	135		2122	3746	2.4		67	45		
	3	11+00	-	13+75	RT	12		214	363	0.3		7	4		
	3	11+00	-	13+75	LT	9		234	337	0.3		6	4		
	2	16+25	-	20+45	RT			68	68	0.1		1	1		
	2	16+25	-	20+45	LT	8		371	472	0.3		8	6		
	3	WEST POND													80
	2	NORTH POND													270
	3	EAST POND													800
		UNDISTRIBUTED AMOUNT (25%)				401		2353	3911	3.1	1	70	44	5	
					TOTAL	1950	50	11700	19700	16	3	330	220	25	1150

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN

TRAFFIC CONTROL

CATEGORY	STAGE	STATION	-	STATION	LOCATION	STAGE DURATION CALENDAR DAYS	643.0100 TRAFFIC CONTROL (EACH)	643.0300 DRUMS (DAYS)	643.0420 BARRICADES TYPE III (DAYS)	643.0500 FLEXIBLE TUBULAR MARKER BASES POSTS (EACH)	643.0600 FLEXIBLE TUBULAR MARKER BASES BASES (EACH)	643.0705 WARNING LIGHTS TYPE A (DAYS)	643.0715 WARNING LIGHTS TYPE C (DAYS)	643.0900 SIGNS (DAYS)	643.1050 SIGNS PORTABLE CHANGEABLE MESSAGE (DAYS)	633.1100 DELINEATORS TEMPORARY (EACH)	646.0600 REMOVING PAVEMENT MARKINGS (LF)	649.0200 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH WHITE (LF)	649.0200 TEMPORARY PAVEMENT MARKING REFLECTIVE PAINT 4-INCH YELLOW (LF)	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH YELLOW (LF)
0020																				
	1	886+00	-	910+00	LT/RT	20		1260	40			80	180	300	7		6000		7050	
	1	1086+61	-	1099+50	LT/RT	20		280						60						
	1	1099+50	-	1113+00	LT/RT	20		500	300			600	100	200	7					
	2	886+00	-	910+00	LT/RT	136		8024	1088	39	39	2176	816	4624		59	3000	5800	5200	
	2	1086+61	-	1099+50	LT/RT	136		5440	136			272	680	680						
	2	1099+50	-	1113+00	LT/RT	136		5440	136			272	680	1768						
	3	886+00	-	910+00	LT/RT	10		670	160	24	24	320	60	320		39	1050	5700	5150	
	3	1086+61	-	1099+50	LT/RT	10		200	130			260		70						
	3	1099+50	-	1113+00	LT/RT	10		300	150			300	50	160						
	4	886+00	-	910+00	LT/RT	18		1782	396	3	3	792	162	288			7750			2900
	4	1086+61	-	1099+50	LT/RT	18		360	18			36	90	90						
	4	1099+50	-	1113+00	LT/RT	18		180	126			252		180						
	5	886+00	-	910+00	LT/RT	34								408						
	5	1086+61	-	1099+50	LT/RT	34		850						102						
	5	1099+50	-	1113+00	LT/RT	34		850						238						
		PROJECT					1													
					SUBTOTAL													11500	17400	
					TOTAL		1	26136	2680	66	66	5360	2818	9488	14	98	17800	28900		2900

TRAFFIC CONTROL (CONTINUED)

CATEGORY	STAGE	STATION	-	STATION	LOCATION	STAGE DURATION CALENDAR DAYS	649.1100 TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH WHITE (LF)	649.1200 TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH WHITE (LF)
0020								
	1	886+00	-	910+00	LT/RT	21	45	
	1	1086+61	-	1099+50	LT/RT	21		
	1	1099+50	-	1113+00	LT/RT	21		
	2	886+00	-	910+00	LT/RT	144	55	
	2	1086+61	-	1099+50	LT/RT	144		
	2	1099+50	-	1113+00	LT/RT	144		
	3	886+00	-	910+00	LT/RT	14	35	35
	3	1086+61	-	1099+50	LT/RT	14		
	3	1099+50	-	1113+00	LT/RT	14		
	4	886+00	-	910+00	LT/RT	20		
	4	1086+61	-	1099+50	LT/RT	20		
	4	1099+50	-	1113+00	LT/RT	20		
	5	886+00	-	910+00	LT/RT	30		
	5	1086+61	-	1099+50	LT/RT	30		
	5	1099+50	-	1113+00	LT/RT	30		
		PROJECT						
					SUBTOTAL			
					TOTAL		135	35

PAVEMENT MARKING

CATEGORY	STAGE	STATION		STATION	LOCATION		646.0106* EPOXY 4-INCH YELLOW (LF)	646.0106* EPOXY 4-INCH WHITE (LF)	646.0126* EPOXY 8-INCH WHITE (LF)	646.0600* REMOVING PAVEMENT MARKINGS (LF)	647.0166* ARROWS EPOXY TYPE 2 WHITE (EACH)	647.0356* WORDS EPOXY WHITE (EACH)	647.0456* CURB EPOXY YELLOW (LF)	647.0506* CURB RAMP EPOXY YELLOW (LF)	647.0569* STOP LINE PREFORMED PLASTIC 18-INCH** (LF)	647.0576* STOP LINE EPOXY 24-INCH (LF)	647.0606* ISLAND NOSE EPOXY YELLOW (EACH)	647.0716* DIAGONAL EPOXY 8-INCH WHITE (LF)	647.0746* DIAGONAL EPOXY 24-INCH YELLOW (LF)	647.0726* DIAGONAL EPOXY 12-INCH YELLOW (LF)	647.0766* CROSSWALK EPOXY 6-INCH (LF)
0020			-																		
	5	1086+61.23	-	1090+50	STH 54 - EAST LEG		775		705			1									
	5	1090+50	-	1096+50	STH 54 - EAST LEG		1200		1242		1	1						425			
	5	1096+50	-	1102+50	STH 54 - EAST LEG		1200		1206									290			
	5	1102+50	-	1108+00	STH 54 - EAST LEG		925		1252		4	2						77	130		
	5	1108+00	-	1113+00	STH 54 - EAST LEG		1000		1000				100				3	204	40		
	5	6+10	-	6+25	STH 172 APROACH					15	1										
	5	16+50UW	-	21+88UW	W. SERVICE RD.		1091		55		2	2	100				3				
	5	21+65UW			W. SERVICE RD.	RT										28					
	5	21+87UW			W. SERVICE RD.	RT										14					
	5	20+35UE	-	24+00UE	E. SERVICE RD.		620		90		2			12							
	5	20+38UE			E. SERVICE RD.	LT										38					
	5	32+12ES			ELM STREET	RT										19					
	5	877+50	-	886+00	STH 54 - WEST LEG		1700	1700													
	5	886+00	-	886+44	STH 54 - WEST LEG		88														
	5	886+44	-	894+50	STH 54 - WEST LEG	LT	803														
	5	886+44	-	894+50	STH 54 - WEST LEG	RT	825														
	5	886+00	-	892+27	STH 54 - WEST LEG	LT		630													
	5	886+00	-	893+94	STH 54 - WEST LEG	LT		794													
	5	886+00	-	894+00	STH 54 - WEST LEG	RT		800													
	5	886+00	-	890+89	STH 54 - WEST LEG	RT		489													
	5	889+00	-	894+50	STH 54 - WEST LEG															180	
	5	894+50	-	894+50	STH 54 - WEST LEG	LT															22
	5	894+50	-	894+50	STH 54 - WEST LEG	LT															22
	5	894+50	-	894+50	STH 54 - WEST LEG	RT															21
	5	894+50	-	894+50	STH 54 - WEST LEG	RT															21
	5	894+60	-	894+97	STH 54 - WEST LEG	LT	37														
	5	894+60	-	894+93	STH 54 - WEST LEG	RT	33														
	5	895+00	-	895+00	STH 54 - WEST LEG	LT		27													
	5	895+00	-	895+00	STH 54 - WEST LEG	RT		18													
	5	894+90	-	894+90	STH 54 - WEST LEG	RT									12						
	5	896+50	-	896+50	STH 54 - EAST LEG	LT									12						
	5	896+60	-	896+60	STH 54 - EAST LEG	LT		16													
	5	896+60	-	896+60	STH 54 - EAST LEG	RT		25													
	5	896+53	-	896+90	STH 54 - EAST LEG	LT	38														
	5	896+50	-	896+92	STH 54 - EAST LEG	RT	42														20
	5	897+00	-	897+00	STH 54 - EAST LEG	LT															20
	5	897+00	-	897+00	STH 54 - EAST LEG	LT															21
	5	897+00	-	897+00	STH 54 - EAST LEG	RT															21
	5	897+00	-	897+00	STH 54 - EAST LEG	RT															
	5	897+00	-	899+86	STH 54 - EAST LEG	LT	286														
	5	897+00	-	899+56	STH 54 - EAST LEG	LT	256														
	5	897+73	-	910+00	STH 54 - EAST LEG	LT		1230													
	5	897+42	-	910+00	STH 54 - EAST LEG	RT		1258												200	
	5	896+60	-	904+00	STH 54 - EAST LEG																
	5	900+48	-	904+81	STH 54 - EAST LEG	LT	435														
	5	901+49	-	904+81	STH 54 - EAST LEG	RT	335														
	5	904+81	-	910+00	STH 54 - EAST LEG		1038														
	5	901+00	-	910+00	STH 54 - EAST LEG	RT		900													
	5	901+33	-	910+00	STH 54 - EAST LEG	RT		870													
	5	11+00	-	11+84	STH 54 - SOUTH LEG		170														
	5	11+84	-	13+73	STH 54 - SOUTH LEG	RT	190														
	5	11+84	-	13+51	STH 54 - SOUTH LEG	LT	170														
	5	11+84	-	14+20	STH 54 - SOUTH LEG															70	
	5	13+75	-	13+75	STH 54 - SOUTH LEG	RT															21
					CONTINUED		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN

**DASHED LINE, SEE PLAN (USED AS A YIELD LINE AT SEMINARY ROUNDABOUT)

PAVEMENT MARKING (CONTINUED)

CATEGORY	STAGE	STATION	-	STATION	LOCATION		646.0106* EPOXY 4-INCH YELLOW (LF)	646.0106* EPOXY 4-INCH WHITE (LF)	646.0126* EPOXY 8-INCH WHITE (LF)	646.0600* REMOVING PAVEMENT MARKINGS (LF)	647.0166* ARROWS EPOXY TYPE 2 WHITE (EACH)	647.0356* WORDS EPOXY WHITE (EACH)	647.0456* CURB EPOXY YELLOW (LF)	647.0506* CURB RAMP EPOXY YELLOW (LF)	647.0569* STOP LINE PREFORMED PLASTIC 18-INCH** (LF)	647.0576* STOP LINE EPOXY 24-INCH (LF)	647.0606* ISLAND NOSE EPOXY YELLOW (EACH)	647.0716* DIAGONAL EPOXY 8-INCH WHITE (LF)	647.0746* DIAGONAL EPOXY 24-INCH YELLOW (LF)	647.0726* DIAGONAL EPOXY 12-INCH YELLOW (LF)	647.0766* CROSSWALK EPOXY 6-INCH (LF)
0020																					
	5	13+75	-	13+75	STH 54 - SOUTH LEG	RT															21
	5	13+75	-	13+75	STH 54 - SOUTH LEG	LT															21
	5	13+75	-	13+75	STH 54 - SOUTH LEG	LT															21
	5	13+81	-	14+20	STH 54 - SOUTH LEG	RT	40														
	5	13+80	-	14+20	STH 54 - SOUTH LEG	LT	40														
	5	14+20	-	14+20	STH 54 - SOUTH LEG	RT									18						
	5	14+20	-	14+20	STH 54 - SOUTH LEG	RT		15													
	5	14+20	-	14+20	STH 54 - SOUTH LEG	LT		25													
	5	15+80	-	15+80	STH 54 - NORTH LEG	RT		30													
	5	15+80	-	15+80	STH 54 - NORTH LEG	LT		15													
	5	15+80	-	15+80	STH 54 - NORTH LEG	LT									18						
	5	15+80	-	16+20	STH 54 - NORTH LEG	RT	40														
	5	15+80	-	16+17	STH 54 - NORTH LEG	LT	40														
	5	16+20	-	16+20	STH 54 - NORTH LEG	RT															24
	5	16+20	-	16+20	STH 54 - NORTH LEG	RT															24
	5	16+20	-	16+20	STH 54 - NORTH LEG	LT															20
	5	16+20	-	16+20	STH 54 - NORTH LEG	LT															20
	5	16+26	-	18+74	STH 54 - NORTH LEG	RT	248														
	5	16+26	-	18+74	STH 54 - NORTH LEG	LT	248														
	5	18+74	-	20+45	STH 54 - NORTH LEG		345														
	5	15+80	-	16+50	STH 54 - NORTH LEG															80	
					SUB-TOTAL		14258	8842	5550	15	10	6	200	12	60	99	6	996	170	530	340
					TOTAL		23100		5550	15	10	6	200	12	60	99	6	996	170	530	340

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN

**DASHED LINE, SEE PLAN (USED AS A YIELD LINE AT SEMINARY ROUNDABOUT)

SAWING ASPHALT

CATEGORY	STAGE	STATION	-	STATION	LOCATION	690.0150 SAWING ASPHALT (LF)
0020						
	1	1086+61	-	1092+00	RT	540
		1107+50	-	1113+50	RT	600
		21+75UE			RT/LT	50
		24+00UE			RT/LT	30
		30+00AS			RT/LT	30
	2	1086+61	-	1089+22	RT	261
		1089+22			LT	30
		1090+00			LT	25
		1090+00	-	1092+00	RT	200
		1107+00	-	1113+50	LT/RT	650
		20+90UW	-	21+93UW	RT	105
	3	16+50UW			RT/LT	31
	4	884+00	-	895+15	RT	1150
		896+30	-	910+00	RT	1425
		1112+98			RT/LT	148
		39+80AS			RT/LT	40
		39+85AS		40+10AS	RT	25
		DRIVEWAYS				180
					TOTAL	5520

SAWING CONCRETE

CATEGORY	STAGE	STATION - STATION	LOCATION	690.0250 SAWING CONCRETE (LF)
0020				
	1	1113+50	RT	3
	1	30+20ES	RT/LT	6
	2	1113+50	LT	3
	3	16+50UW	RT	3
	4	39+80AS	LT	3
	4	40+10AS	RT	3
			TOTAL	21

SHARED PATH AND BRIDGE LIGHTING

CATEGORY	STAGE	LIGHT NO.	STATION	LOCATION	SPV.0060.24* PATHWAY LIGHTING UNITS TYPE A (EA)	SPV.0060.25* PATHWAY CONCRETE LIGHT POLE BASE TYPE A (EA)	SPV.0060.26* LIGHTING UNITS TYPE B (EA)	SPV.0060.27* LIGHTING UNITS TYPE C (EA)	SPV.0060.28* LIGHTING UNITS TYPE D (EA)
0090									
	4	L-01	196+40.00	LT	1	1			
	4	L-02	197+20.00	RT	1	1			
	4	L-03	197+99.00	LT	1	1			
	4	L-04	198+80.00	RT	1	1			
	4	L-05	199+60.00	LT	1	1			
	4	L-06	200+39.00	RT	1	1			
	4	L-07	200+20.00	LT	1	1			
	4	L-08	202+00.00	RT	1	1			
	4	L-09	202+79.00	LT	1	1			
	4	L-10	203+58.00	RT	1	1			
	4	L-11	202+38.00	LT	1	1			
	4	L-12	205+18.00	RT	1	1			
	4	L-13	206+48.00	LT	1	1			
	4	L-14	206+81.00	RT	1	1			
	4	L-15	208+16.00	RT	1	1			
	4	L-16	208+95.00	LT	1	1			
	4	L-17	209+75.00	RT	1	1			
	4	L-18	210+55.00	LT	1	1			
	4	L-19	211+34.00	RT	1	1			
	4	L-20	212+15.00	LT	1	1			
	4	L-21	212+93.00	RT	1	1			
	4	L-22	213+70.00	LT	1	1			
	4	L-23	214+50.00	LT	1	1			
	4	L-24	70+65.00	LT	1	1			
	4	L-25	71+24.00	RT	1	1			
	4	L-26	BRIDGE	EAST ABUT.			1		
	4	L-27	BRIDGE	EAST ABUT.			1		
	4	L-28	BRIDGE	EAST ABUT.			1		
	4	L-29	72+68.00	LT	1	1			
	4	L-30	73+28.00	RT	1	1			
	4	L-31	73+68.00	LT	1	1			
	4	L-32	74+53.00	RT	1	1			
	4	L-33	75+11.00	LT	1	1			
	4	L-34	80+73.00	LT	1	1			
	4	L-35	81+55.00	RT	1	1			
	4	L-36	82+33.00	LT	1	1			
	4	L-37	83+12.00	RT	1	1			
	4	L-38	83+88.00	LT	1	1			
	4	L-39	50+69.00	RT	1	1			
	4	L-40	51+29.00	LT	1	1			
	4	L-41	51+89.00	RT	1	1			
	4	L-42	52+50.00	LT	1	1			
	4	L-43	53+12.00	RT	1	1			
	4	L-44	BRIDGE	WEST ABUT.			1		
	4	L-45	BRIDGE	WEST ABUT.			1		
	4	L-46	BRIDGE	WEST ABUT.			1		
	4	L-47	54+45.00	RT	1	1			
	4	L-48	55+14.00	RT	1	1			
	4	L-49	55+82.00	LT	1	1			
	4	L-50	56+65.00	RT	1	1			
	4	L-51	57+58.00	LT	1	1			
	4	L-52	120+38.00	RT	1	1			
	4	L-53	121+19.00	RT	1	1			
	4	L-54	121+98.00	LT	1	1			
	4	L-55	119+60.00	RT	1	1			
	4	L-56	118+79.00	LT	1	1			
	4	L-57	117+98.00	RT	1	1			
	4	L-58	117+19.00	LT	1	1			
	4	L-59	116+38.00	RT	1	1			
				CONTINUED	-	-	-	-	-

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN

SHARED PATH AND BRIDGE LIGHTING (CONTINUED)

CATEGORY	STAGE	LIGHT NO.	STATION	LOCATION	SPV.0060.24* PATHWAY LIGHTING UNITS TYPE A (EA)	SPV.0060.25* PATHWAY CONCRETE LIGHT POLE BASE TYPE A (EA)	SPV.0060.26* LIGHTING UNITS TYPE B (EA)	SPV.0060.27* LIGHTING UNITS TYPE C (EA)	SPV.0060.28* LIGHTING UNITS TYPE D (EA)
0090	4	L-60	115+58.00	LT	1	1			
	4	L-61	114+73.00	RT	1	1			
	4	L-62	113+93.00	LT	1	1			
	4	L-63	113+12.00	RT	1	1			
	4	L-64	BRIDGE	EAST ABUT.				1	
	4	L-65	BRIDGE	WEST ABUT.				1	
	4	L-66	BRIDGE	WEST ABUT.					1
	4	L-67	BRIDGE	WEST ABUT.					1
	4	L-68	BRIDGE	WEST ABUT.				1	
	4	L-69	BRIDGE	EAST ABUT.					1
	4	L-70	BRIDGE	EAST ABUT.					1
	4	L-71	BRIDGE	EAST ABUT.				1	
				TOTAL	57	57	6	4	4

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN

ROUNDABOUT LIGHTING

CATEGORY	STAGE	STATION	-	STATION	LOCATION	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE (EA)	657.0322 POLES TYPE 5-ALUMINUM (EA)	657.0710 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 12-FT (EA)	659.0115 LUMINAIRES UTILITY HPS 150 WATTS (EA)	659.0125 LUMINAIRES UTILITY HPS 250 WATTS (EA)
0020	4	890+00	-	902+00	STH 54/SEMINARY ROAD	15	15	15	5	10
					TOTAL	15	15	15	5	10

ELECTRICAL POWER AND CONTROLS

CATEGORY	STAGE	CABINET NO.	STATION	LOCATION	656.0200 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LS)	SPV.0060.23 LIGHTING CONTROL CABINET (EA)	654.0200 CONCRETE CONTROL CABINET BASES TYPE 6 (EA)
0090							
	4	A	35+25	70' RT	1	1	1
	4	B	70+50.00	15' RT	1	1	1
0020	4	CB1		STH 54/SEMINARY ROAD	1		
0090				SUBTOTAL	2	2	2
0020				SUBTOTAL	1		
				TOTAL	3	2	2

CONCRETE BASES

CATEGORY	STAGE	LOCATION	654.0105 CONCRETE BASES TYPE 5 (EA)	654.0220 CONCRETE CONTROL CABINET BASES TYPE 10 NER (EA)
0020	4	STH 54/SEMINARY ROAD	15	1
		TOTAL	15	1

SALVAGE TRAFFIC SIGNALS SPECIAL

CATEGORY	STAGE	LOCATION	SPV.0105.03 SALVAGE TRAFFIC SIGNALS SPECIAL (LS)
0020	1	STH 54/SEMINARY ROAD	1
		TOTAL	1

PULL BOXES

CATEGORY	STAGE	PULL BOX NO.	STATION	LOCATION	653.0140* PULL BOXES STEEL 24x42-INCH (EA)
0090					
	4	PB-01	197+99.00	RT	1
	4	PB-02	199+60.00	RT	1
	4	PB-03	200+20.00	RT	1
	4	PB-04	200+45.00	RT	1
	4	PB-05	55+14.00	RT	1
	4	PB-06	202+79.00	RT	1
	4	PB-07	202+38.00	RT	1
	4	PB-08	206+48.00	RT	1
	4	PB-09	56+65.00	LT	1
	4	PB-10	120+38.00	RT	1
	4	PB-11	118+79.00	RT	1
	4	PB-12	208+95.00	RT	1
	4	PB-13	209+87.00	RT	1
	4	PB-14	210+55.00	RT	1
	4	PB-15	212+15.00	RT	1
	4	PB-16	213+70.00	RT	1
	4	PB-17	117+19.00	RT	1
	4	PB-18	70+65.00	RT	1
	4	PB-19	71+47.00	RT	1
	4	PB-20	72+68.00	RT	1
	4	PB-21	116+33.00	RT	1
	4	PB-22	73+68.00	RT	1
	4	PB-23	74+53.00	RT	1
	4	PB-24	115+58.00	RT	1
	4	PB-25	75+11.00	RT	1
	4	PB-26	113+93.00	RT	1
	4	PB-27	81+55.00	LT	1
	4	PB-28	121+98.00	RT	1
	4	PB-29	83+12.00	LT	1
	4	PB-30	50+69.00	LT	1
	4	PB-31	51+89.00	LT	1
	4	PB-32	54+45.00	LT	1
	4	PB-33	55+45.00	LT	1
				TOTAL	33

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN.

PULL BOXES (ROUNDABOUT)

CATEGORY	STAGE	LOCATION	653.0140* PULL BOXES STEEL 24x42-INCH (EA)
0020	4	STH 54/SEMINARY ROAD	8
		TOTAL	8

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN.

REMOVING PULL BOXES

CATEGORY	STAGE	LOCATION	653.0905 REMOVING PULL BOXES (EA)
0020	2	STH 54/SEMINARY ROAD	13
		TOTAL	13

CONDUIT AND WIRE

CATEGORY	STAGE	STATION	-	STATION	FROM	TO	DISTANCE	652.0325 CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH (LF)	652.0210 CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH (LF)	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (LF)	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG (LF)	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG (LF)
0090												
	4	196+40.00	-	200+45.00	L-01	PB-04	405			446	1470	
	4	200+45.00	-	35+25	PB-04	CABINET A	8			9	48	
	4	197+99.00	-	197+99.00	PB-01	L-03	14			15	51	
	4	199+60.00	-	199+60.00	PB-02	L-05	14			15	51	
	4	200+20.00	-	200+20.00	PB-03	L-07	14			15	51	
	4	200+45.00	-	116+33.00	PB-04	PB-21	90	90			297	
	4	116+33.00	-	113+12.00	PB-21	L-63	321			353	1165	
	4	113+93.00	-	113+93.00	PB-26	L-62	7			8	25	
	4	115+58.00	-	115+58.00	PB-24	L-60	7			8	25	
	4	116+33.00	-	120+38.00	PB-21	PB-10	405			446	1470	
	4	118+79.00	-	118+79.00	PB-11	L-56	14			15	51	
	4	117+19.00	-	117+19.00	PB-17	L-58	14			15	51	
	4	120+38.00	-	120+38.00	PB-10	L-52	14			15	51	
	4	120+38.00	-	57+58.00	L-52	L-51	50			55	182	
	4	57+58.00	-	55+45.00	L-51	PB-33	213			234	773	
	4	55+45.00	-	54+45.00	PB-33	L-47	14			15	51	
	4	55+14.00	-	55+14.00	PB-05	L-48	14			15	51	
	4	56+65.00	-	56+65.00	PB-09	L-50	14			15	51	
	4	120+38.00	-	121+98.00	PB-10	PB-28	160			176	581	
	4	121+98.00	-	121+98.00	PB-28	L-54	14			15	51	
	4	200+45.00	-	206+81.00	PB-04	L-14	636			700	2309	
	4	202+79.00	-	202+79.00	PB-06	L-09	14			15	51	
	4	206+48.00	-	206+48.00	PB-08	L-13	14			15	51	
	4	55+45.00	-	202+38.00	PB-7	L-11	14			15	51	
	4	202+38.00	-	50+69.00	L-11	PB-30	80			88	290	
	4	50+69.00	-	54+45.00	PB-30	PB-32	376			414	1365	
	4	50+69.00	-	50+69.00	PB-30	L-39	14			15	51	
	4	51+89.00	-	51+89.00	PB-31	L-41	14			15	51	
	4	54+45.00	-	53+12.00	PB-32	L-43	14			15	51	
	4	54+45.00	-	BRIDGE	PB-32	L-68	65		65		215	
	4	BRIDGE MOUNTED					400		400		1320	
	4	70+50.00	-	70+65.00	CABINET B	PB-18	25			28	91	
	4	70+65.00	-	75+11.00	PB-18	PB-25	446			491	1619	
	4	70+65.00	-	70+65.00	PB-18	L-24	14			15	51	
	4	72+68.00	-	72+68.00	PB-20	L-29	14			15	51	
	4	73+68.00	-	73+68.00	PB-22	L-31	14			15	51	
	4	75+11.00	-	75+11.00	PB-25	L-33	14			15	51	
	4	74+53.00	-	80+73.00	PB-23	L-34	80			88	290	
	4	80+73.00	-	83+88.00	L-34	L-38	315			347	1143	
	4	81+55.00	-	81+55.00	PB-27	L-35	14			15	51	
	4	83+12.00	-	83+12.00	PB-29	L-37	14			15	51	
	4	70+65.00	-	209+87.00	PB-18	PB-13	100			110	363	
	4	70+65.00	-	70+65.00	PB-18	L-24	14			15	51	
	4	208+16.00	-	214+50.00	L-15	L-23	634			697	2301	
	4	208+95.00	-	208+95.00	PB-12	L-16	14			15	51	
	4	210+55.00	-	210+55.00	PB-14	L-18	14			15	51	
	4	212+15.00	-	212+15.00	PB-15	L-20	14			15	51	
	4	213+70.00	-	213+70.00	PB-16	L-22	14			15	51	
	4	71+47.00	-	113+12.00	PB-19	L-63			35		116	
	4	TYPE A POLE WIRING										3933
						TOTAL		90	500	5111	18831	3933

*ADDITIONAL QUANTITY SHOWN ELSEWHERS IN THE PLAN.

CONDUIT AND WIRE (ROUNDABOUT)

CATEGORY	STAGE	FROM	TO	652.0225* CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH (LF)	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH (LF)	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG (UNGROUNDED-BLACK/RED) (LF)	655.0610* ELECTRICAL WIRE LIGHTING 12 AWG (GROUNDED-GREEN) (LF)	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG (UNGROUNDED-BLACK/RED) (LF)	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG (GROUNDED-GREEN) (LF)
0020									
	4	CB1	PB1		10				20
	4	PB1	LB1	40					
	4	LB1	PB2	50					
	4	PB1	PB2		80				
	4	PB2	LB2	50					70
	4	LB2	LB3	140				320	160
	4	LB3	LB4	150				340	170
	4	LB4	LB5	150				340	170
	4	PB2	PB3		120				
	4	PB3	LB6	20					40
	4	PB3	PB4		100				
	4	PB4	LB7	30					50
	4	PB4	LB8	50					
	4	PB4	PB5		100				
	4	PB5	LB9	5					20
	4	PB5	PB6		80				
	4	PB6	LB10	10					30
	4	LB10	LB11	180				400	200
	4	LB11	LB12	190				420	210
	4	PB6	PB7		90				
	4	PB7	LB13	40					60
	4	LB13	LB14	80				200	100
	4	LB14	PB8	60					
	4	PB8	LB15	5					20
	4	PB8	PB1		80				
	4	CB1	LB1					160	80
	4	LB1	LB2					260	130
	4	CB1	LB6					560	280
	4	LB6	LB7					380	190
	4	LB7	LB8					220	110
	4	CB1	LB9					980	490
	4	LB9	LB10					280	140
	4	CB1	LB15					280	140
	4	LB14	LB15					200	100
	4	LB1	LUMINAIRE			100	50		
	4	LB2	LUMINAIRE			100	50		
	4	LB3	LUMINAIRE			100	50		
	4	LB4	LUMINAIRE			100	50		
	4	LB5	LUMINAIRE			100	50		
	4	LB6	LUMINAIRE			100	50		
	4	LB7	LUMINAIRE			100	50		
	4	LB8	LUMINAIRE			100	50		
	4	LB9	LUMINAIRE			100	50		
	4	LB10	LUMINAIRE			100	50		
	4	LB11	LUMINAIRE			100	50		
	4	LB12	LUMINAIRE			100	50		
	4	LB13	LUMINAIRE			100	50		
	4	LB14	LUMINAIRE			100	50		
	4	LB15	LUMINAIRE			100	50		
	SUBTOTAL			1250	660	1500	750	5340	2980
	TOTAL			1250	660	2250		8320	

*ADDITIONAL QUANTITY SHOWN ELSEWHERS IN THE PLAN.

CONSTRUCTION STAKING

CATEGORY	STAGE	STATION	-	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE (LF)	650.5000 CONSTRUCTION STAKING BASE (LF)	650.9920 CONSTRUCTION STAKING SLOPE STAKES (LF)	SPV.0060.18 CONSTRUCTION STAKING DETENTION POND (EA)	SPV.0105.01 CONSTRUCTION STAKING CENTRAL ISLAND LANDSCAPING SEMINARY ROAD (LS)
0020										
	1	1086+61	-	1093+50	RT	689	689	689		
	1	1106+50	-	1113+50	RT	700	700	700		
	1	30+00ES	-	32+24ES	RT/LT	224	224	224		
	1	21+75UE	-	24+00UE	RT/LT	225	225	225		
	2	1086+61	-	1089+22	LT	130	130	130		
	2	1090+00	-	1094+00	LT	200	200	200		
	2	1094+00	-	1097+42	RT/LT	342	342	342		
	2	1097+42	-	1098+42	RT/LT	100	100	100		
	2	1100+50	-	1101+50	RT/LT	100	100	100		
	2	1101+50	-	1105+75	RT/LT	425	425	425		
	2	1105+75	-	1112+50	LT	337	337	337		
	2	1112+50	-	1113+50	LT	50	50	50		
	2	21+17UW	-	21+90UW	RT	36	36	36		
	2	20+27UE	-	20+65UE	RT/LT	38	38	38		
0090	2	112+88NP	-	122+86NP	RT/LT	951	951	951		
	2	50+15RU	-	57+93RU	RT/LT	778	778	778		
	2	70+15RE	-	75+96RE	RT/LT	581	581	581		
	2	80+07EP	-	83+86EP	RT/LT	379	379	379		
0020	3	1086+61	-	1088+25	RT	82	82	82		
	3	1088+25	-	1094+00	RT	288	288	288		
	3	1105+75	-	1112+50	RT	338	338	338		
	3	1112+50	-	1112+98	RT	24	24	24		
	3	16+50UW	-	20+66UW	RT/LT	416	416	416		
	3	20+66UW	-	21+90UW	RT/LT	124	124	124		
0090	3	195+79SP	-	196+79SP	RT/LT	100	100	100		
	3	196+79SP	-	206+88SP	RT/LT	1009	1009	1009		
	3	207+89SP	-	214+48SP	RT/LT	659	659	659		
	3	50+07RU	-	50+15RU	RT/LT	8	8	8		
	3	70+07RE	-	70+15RE	RT/LT	8	8	8		
0020	4	1089+22	-	1090+00	LT	39	39	39		
	4	39+82AS	-	43+21AS	RT/LT	340	340	340		
	2	WEST POND							1	
	2	NORTH POND							1	
	3	EAST POND							1	
0070	5	CENTRAL ISLAND			ROUNDABOUT					1
0020					TOTAL	5247	5247	5247	3	
0070					TOTAL					1
0090					TOTAL	4473	4473	4473		
					TOTAL	9720	9720	9720	3	1

STEEL SWING GATE

CATEGORY	STAGE	STATION	LOCATION	SPV.0060.21 STEEL SWING GATE (EA)
0020				
	4	42+93.4AS	LT/RT	1
	4	40+97.3AS	LT/RT	1
			TOTAL	2

TRENCH INSULATION

CATEGORY	STAGE	STATION	LOCATION	SPV.0165.09 TRENCH INSULATION (SF)
0020				
	2	13+49.9	12.9' LT	64
	2	17+41.8	22.8' RT	64
			TOTAL	128

TRACKING PADS

CATEGORY	STAGE	LOCATION	628.7560 TRACKING PADS (EA)
0020			
	2	UNDISTRIBUTED	3
		TOTAL	3

6" CELLULAR ARTICULATED CONCRETE BLOCK MATTRESS

CATEGORY	STAGE	STATION - STATION	LOCATION	SPV.0180.03 6" CELLULAR ARTICULATED CONCRETE BLOCK MATTRESS (SY)
0020				
	4	40+17AS - 43+34AS	LT/RT	480
			TOTAL	480

3

CONSTRUCTION STAKING

CATEGORY	STAGE	STATION	-	STATION	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE (LF)	650.5000 CONSTRUCTION STAKING BASE (LF)	650.9920 CONSTRUCTION STAKING SLOPE STAKES (LF)	SPV.0060.18 CONSTRUCTION STAKING DETENTION POND (EA)	SPV.0105.01 CONSTRUCTION STAKING CENTRAL ISLAND LANDSCAPING SEMINARY ROAD (LS)
0020										
	1	1086+61	-	1093+50	RT	689	689	689		
	1	1106+50	-	1113+50	RT	700	700	700		
	1	30+00ES	-	32+24ES	RT/LT	224	224	224		
	1	21+75UE	-	24+00UE	RT/LT	225	225	225		
	2	1086+61	-	1089+22	LT	130	130	130		
	2	1090+00	-	1094+00	LT	200	200	200		
	2	1094+00	-	1097+42	RT/LT	342	342	342		
	2	1097+42	-	1098+42	RT/LT	100	100	100		
	2	1100+50	-	1101+50	RT/LT	100	100	100		
	2	1101+50	-	1105+75	RT/LT	425	425	425		
	2	1105+75	-	1112+50	LT	337	337	337		
	2	1112+50	-	1113+50	LT	50	50	50		
	2	21+17UW	-	21+90UW	RT	36	36	36		
	2	20+27UE	-	20+65UE	RT/LT	38	38	38		
0090	2	112+88NP	-	122+86NP	RT/LT	951	951	951		
	2	50+15RU	-	57+93RU	RT/LT	778	778	778		
	2	70+15RE	-	75+96RE	RT/LT	581	581	581		
	2	80+07EP	-	83+86EP	RT/LT	379	379	379		
0020	3	1086+61	-	1088+25	RT	82	82	82		
	3	1088+25	-	1094+00	RT	288	288	288		
	3	1105+75	-	1112+50	RT	338	338	338		
	3	1112+50	-	1112+98	RT	24	24	24		
	3	16+50UW	-	20+66UW	RT/LT	416	416	416		
	3	20+66UW	-	21+90UW	RT/LT	124	124	124		
0090	3	195+79SP	-	196+79SP	RT/LT	100	100	100		
	3	196+79SP	-	206+88SP	RT/LT	1009	1009	1009		
	3	207+89SP	-	214+48SP	RT/LT	659	659	659		
	3	50+07RU	-	50+15RU	RT/LT	8	8	8		
	3	70+07RE	-	70+15RE	RT/LT	8	8	8		
0020	4	1089+22	-	1090+00	LT	39	39	39		
	4	39+82AS	-	43+21AS	RT/LT	340	340	340		
	2	WEST POND							1	
	2	NORTH POND							1	
	3	EAST POND							1	
0070	5	CENTRAL ISLAND			ROUNDABOUT					1
0020					TOTAL	5247	5247	5247	3	
0070					TOTAL					1
0090					TOTAL	4473	4473	4473		
					TOTAL	9720	9720	9720	3	1

STEEL SWING GATE

CATEGORY	STAGE	STATION	LOCATION	SPV.0060.21 STEEL SWING GATE (EA)
0020				
	4	42+93.4AS	LT/RT	1
	4	40+97.3AS	LT/RT	1
			TOTAL	2

TRENCH INSULATION

CATEGORY	STAGE	STATION	LOCATION	SPV.0165.09 TRENCH INSULATION (SF)
0020				
	2,3,4	UNDISTRIBUTED	LT/RT	320
			TOTAL	320

TRACKING PADS

CATEGORY	STAGE	LOCATION	628.7560 TRACKING PADS (EA)
0020			
	2	UNDISTRIBUTED	3
		TOTAL	3

6" CELLULAR ARTICULATED CONCRETE BLOCK MATTRESS

CATEGORY	STAGE	STATION - STATION	LOCATION	SPV.0180.03 6" CELLULAR ARTICULATED CONCRETE BLOCK MATTRESS (SY)
0020				
	4	40+17AS - 43+34AS	LT/RT	480
			TOTAL	480

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Addendum No. 2
ID 9210-11-71
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March 5, 2012

PLANTING SUMMARY

CATEGORY	STAGE	LOCATION	625.0100* TOPSOIL (SY)	627.0200* MULCHING (SY)	629.0210* FERTILIZER TYPE B (CWT)	631.1000 SOD LAWN (SY)	SPV.0035.02 PLANTING MIX (CY)	SPV.0085.01* SPECIAL LOW MAINTENANCE SEED MIX (LB)	SPV.0085.02 SPECIAL WET MEADOW SEED MIX (LB)	SPV.0120.01 WATER (MGAL)	SPV.0165.01 MULCH SHREDDED BARK (SF)	SPV0060.04 PERENNIAL PLANTS SEDUM BABY TEARS 6-INCH POT (EACH)	SPV.0060.05 PERENNIAL PLANTS SEDUM GREEN ICE 6-INCH POT (EACH)	SPV.0060.06 PERENNIAL PLANTS SEDUM PACHYCLADOS 6-INCH POT (EACH)	SPV.0060.08 PERENNIAL PLANTS LITTLE BLUESTEM 1-GAL (EACH)
0070															
	4	STH 54 SHARED PATHS	29600	29600	18	2500	200	1415	50						
	4	SEMINARY ROAD ROUNDABOUT	145		1		50			3	1350	88	169	128	150
	4	STH 54 DRAINAGE BUFFER	560	560	1		30	30							
	4	LIBRARY GREEN	4800	4800	4	590	50	210	20	95					
	4	RETAINING WALL (R-05-102)	275	275	1		30	100							
	4	STH 54/172 ENTRANCE STATEMENTS	10800	10800	7		90	585		400					
		TOTAL	46180	46035	32	3090	450	2340	70	498	1350	88	169	128	150

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN

PLANTING SUMMARY (CONTINUED)

CATEGORY	STAGE	LOCATION	SPV.0060.07 PERENNIAL PLANTS SIBERIAN IRIS 6-INCH POT (EACH)	SPV.0060.09 PERENNIAL PLUGS LITTLE BLUESTEM 3-INCH POT (EACH)	SPV.0060.10 PERENNIAL PLUGS INDIAN GRASS 3-INCH POT (EACH)	SPV.0060.11 PERENNIAL PLUGS VIRGINIA WILD RYE 3-INCH POT (EACH)	SPV.0060.12 PERENNIAL PLUGS WILD BERGAMONT 3-INCH POT (EACH)	SPV.0060.13 PERENNIAL PLUGS BLUE FLAG IRIS 3-INCH POT (EACH)	SPV.0060.14 PERENNIAL PLUGS PRAIRIE BLAZING STAR 3-INCH POT (EACH)	SPV.0060.15 PERENNIAL PLUGS BUTTERY WEED 3-INCH POT (EACH)	SPV.0060.16 PERENNIAL PLUGS PALE PURPLE CONEFLOWER 3-INCH POT (EACH)	SPV.0060.17 PERENNIAL PLUGS YELLOW CONEFLOWER 3-INCH POT (EACH)
0070												
	4	STH 54 SHARED PATHS	194	209	104	104	99	99	99	99	99	99
		TOTAL	194	209	104	104	99	99	99	99	99	99

TREES AND SHRUBS

CATEGORY	STAGE	LOCATION	362.0101.01 WHITE PINE (EA)	632.0101.02 GREENSPIRE LITTLE LEAF LINDEN (EA)	632.0101.03 GREEN MOUNTAIN SUGAR MAPLE (EA)	632.0101.04 NORWAY SPRUCE (EA)	632.0101.05 RED MAPLE (EA)	632.0101.06 SERVICEBERRY (EA)	632.0101.07 COCKSFUR HAWTHORN (EA)	632.0101.08 WHITESPIRE PAPERBARK BIRCH (EA)	632.0101.09 SWAMP WHITE OAK (EA)	632.0201.01 FRAGENT SUMAC (EA)
0070												
	4	STH 54 SHARED PATHS	41	38	54	5	45			35	33	
	4	STH 54 DRAINAGE BUFFER		12	12		4			15		
	4	LIBRARY GREEN	12			20	6	6	3	8		
	4	RETAINING WALL (R-05-102)	9		3	13	3	9	6			
	4	STH 54/172 ENTRANCE STATEMENTS	9	15	15	16	9			23		23
		TOTAL	71	65	84	54	67	15	9	81	33	23

EARTHWORK SUMMARY

CATEGORY	LOCATION	205.0100* COMMON EXCAVATION (CY)	SALVAGED UNUSABLE PAVEMENT MATERIAL (CY)	UNEXPANDED FILL (CY)	EXPANDED FILL 1.30 (CY)	MASS ORDINATE (CY)	208.0100* BORROW (CY)	WASTE (CY)
0070								
	LIBRARY GREEN	1260	125	1265	1645	-510		
	SUBTOTAL	1260				-510	510	
	ENTRANCE STATEMENTS							
	AREA A	1377	0	2600	3380	-2003		
	AREA B	131	0	370	481	-350		
	AREA C	161	0	60	78	83		
	AREA D	8	0	710	923	-915		
	SUBTOTAL	1677				-3185	3185	
	TOTAL	2937					3695	

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN

PLANTING SUMMARY

CATEGORY	STAGE	LOCATION	625.0100* TOPSOIL (SY)	627.0200* MULCHING (SY)	629.0210* FERTILIZER TYPE B (CWT)	631.1000 SOD LAWN (SY)	SPV.0035.02 PLANTING MIX (CY)	SPV.0085.01* SPECIAL LOW MAINTENANCE SEED MIX (LB)	SPV.0085.02 SPECIAL WET MEADOW SEED MIX (LB)	SPV.0120.01 WATER (MGAL)	SPV.0165.01 MULCH SHREDDED BARK (SF)	SPV0060.04 PERENNIAL PLANTS SEDUM BABY TEARS 6-INCH POT (EACH)	SPV.0060.05 PERENNIAL PLANTS SEDUM GREEN ICE 6-INCH POT (EACH)	SPV.0060.06 PERENNIAL PLANTS SEDUM PACHYCLADOS 6-INCH POT (EACH)	SPV.0060.08 PERENNIAL PLANTS LITTLE BLUESTEM 1-GAL (EACH)
0070															
	4	STH 54 SHARED PATHS	29600	29600	18	2700	400	1415	50						
	4	SEMINARY ROAD ROUNDABOUT	145		1		50			3	1350	88	169	128	150
	4	STH 54 DRAINAGE BUFFER	560	560	1		60	30							
	4	LIBRARY GREEN	4800	4800	4	590	100	210	20	95					
	4	RETAINING WALL (R-05-102)	275	275	1		60	100							
	4	STH 54/172 ENTRANCE STATEMENTS	10800	10800	7		180	585		400					
		TOTAL	46180	46035	32	3290	850	2340	70	498	1350	88	169	128	150

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN

PLANTING SUMMARY (CONTINUED)

CATEGORY	STAGE	LOCATION	SPV.0060.07 PERENNIAL PLANTS SIBERIAN IRIS 6-INCH POT (EACH)	SPV.0060.09 PERENNIAL PLUGS LITTLE BLUESTEM 3-INCH POT (EACH)	SPV.0060.10 PERENNIAL PLUGS INDIAN GRASS 3-INCH POT (EACH)	SPV.0060.11 PERENNIAL PLUGS VIRGINIA WILD RYE 3-INCH POT (EACH)	SPV.0060.12 PERENNIAL PLUGS WILD BERGAMONT 3-INCH POT (EACH)	SPV.0060.13 PERENNIAL PLUGS BLUE FLAG IRIS 3-INCH POT (EACH)	SPV.0060.14 PERENNIAL PLUGS PRAIRIE BLAZING STAR 3-INCH POT (EACH)	SPV.0060.15 PERENNIAL PLUGS BUTTERY WEED 3-INCH POT (EACH)	SPV.0060.16 PERENNIAL PLUGS PALE PURPLE CONEFLOWER 3-INCH POT (EACH)	SPV.0060.17 PERENNIAL PLUGS YELLOW CONEFLOWER 3-INCH POT (EACH)
0070												
	4	STH 54 SHARED PATHS	194	209	104	104	99	99	99	99	99	99
		TOTAL	194	209	104	104	99	99	99	99	99	99

TREES AND SHRUBS

CATEGORY	STAGE	LOCATION	362.0101.01 WHITE PINE (EA)	632.0101.02 GREENSPIRE LITTLE LEAF LINDEN (EA)	632.0101.03 GREEN MOUNTAIN SUGAR MAPLE (EA)	632.0101.04 NORWAY SPRUCE (EA)	632.0101.05 RED MAPLE (EA)	632.0101.06 SERVICEBERRY (EA)	632.0101.07 COCKSFUR HAWTHORN (EA)	632.0101.08 WHITESPIRE PAPERBARK BIRCH (EA)	632.0101.09 SWAMP WHITE OAK (EA)	632.0201.01 FRAGENT SUMAC (EA)
0070												
	4	STH 54 SHARED PATHS	41	38	54	5	45			35	33	
	4	STH 54 DRAINAGE BUFFER		12	12		4			15		
	4	LIBRARY GREEN	12			20	6	6	3	8		
	4	RETAINING WALL (R-05-102)	9		3	13	3	9	6			
	4	STH 54/172 ENTRANCE STATEMENTS	9	15	15	16	9			23		23
		TOTAL	71	65	84	54	67	15	9	81	33	23

EARTHWORK SUMMARY

CATEGORY	LOCATION	205.0100* COMMON EXCAVATION (CY)	SALVAGED UNUSABLE PAVEMENT MATERIAL (CY)	UNEXPANDED FILL (CY)	EXPANDED FILL 1.30 (CY)	MASS ORDINATE (CY)	208.0100* BORROW (CY)	WASTE (CY)
0070								
	LIBRARY GREEN	1260	125	1265	1645	-510		
	SUBTOTAL	1260				-510	510	
	ENTRANCE STATEMENTS							
	AREA A	1377	0	2600	3380	-2003		
	AREA B	131	0	370	481	-350		
	AREA C	161	0	60	78	83		
	AREA D	8	0	710	923	-915		
	SUBTOTAL	1677				-3185	3185	
	TOTAL	2937					3695	

*ADDITIONAL QUANTITY SHOWN ELSEWHERE IN THE PLAN

Addendum No. 2
ID 9210-11-71
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March 5, 2012

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ERECTION OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.0202 SIGNS REFLECTIVE TYPE II S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0622 POSTS WOOD 4x6x22 EACH	REMARKS
1	STH 54, W. OF SEMINARY RD	J1-2	48" X 39"	13.00		1			CTH J, CTH U, SEE PLAN SHEET
2	"	W2-6	30" X 30"	6.25			1		
2A	"	W2-6P	30" X 16"	3.33					MOUNT BELOW SIGN #2
2B	"	W13-1	18" X 18"	2.25					15 MPH, MOUNT BELOW SIGN #2A
3	"	R2-1	36" X 48"	12.00			1		45 MPH
4	STH 54 SPLITTER ISLAND, W. OF SEMINARY RD	R4-7	24" X 30"	5.00		1			
5	STH 54, W. OF SEMINARY RD	W3-2	36" x 36"	9.00		1			
6	"	D1-62	156" X 84"	91.00	SEE STRUCTURAL STEEL SUPPORTS				SEE SIGN DETAIL
7	"	J4-1	24" X 36"	6.00		1			STH 54, SEE PLAN SHEET
8	VACANT								
9	VACANT								
10	STH 54 SPLITTER ISLAND, W. OF SEMINARY RD	D1-1	42" X 30"	8.75		1			SEE SIGN DETAIL
11	"	R1-2	36" X 31"	3.88			1		
11A	"	R6-2R	24" X 30"	5.00					MOUNT BELOW SIGN #11
12	STH 54 AT ROUNDABOUT	R1-2	36" X 31"	3.88		1			
12A	"	R1-54	24" X 15"	2.50					MOUNT BELOW SIGN #12
13	IN ROUNDABOUT	R6-1R	54" X 18"	6.75		2			
13A	"	R6-4B	60" X 24"	10.00					MOUNT BELOW SIGN #13
14	SEMINARY RD, S. OF STH 54	J1-1	24" X 39"	6.50		1			STH 54, SEE PLAN SHEET
15	"	W2-6	30" X 30"	6.25			1		
15A	"	W2-6P	30" X 16"	3.33					MOUNT BELOW SIGN #15
15B	"	W13-1	18" X 18"	2.25					MOUNT BELOW SIGN #15A
16	"	W3-2	36" X 36"	9.00		1			
16A	"	D1-62	108" X 72"	54.00				4	SEE SIGN DETAIL
17	SEMINARY RD. SPLITTER ISLAND, S. OF STH 54	R4-7	24" X 30"	5.00		1			
18	"	R1-2	36" X 31"	3.88			1		
18A	"	R6-2R	24" X 30"	5.00					MOUNT BELOW SIGN #18
19	SEMINARY RD AT ROUNDABOUT	R1-2	36" X 31"	7.75		1			
19A	"	R1-54	24" X 15"	2.50					
20	IN ROUNDABOUT CIRCLE	R6-1R	54" X 18"	6.75		2			
20A	"	R6-4B	60" X 24"	10.00					MOUNT BELOW SIGN #20
21	"	R6-1R	54" X 18"	6.75		2			
21A	"	R6-4B	60" X 24"	10.00					MOUNT BELOW SIGN #21

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

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ERECTION OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.0202 SIGNS REFLECTIVE TYPE II S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0622 POSTS WOOD 4x6x22 EACH	REMARKS
1	STH 54, W. OF SEMINARY RD	J1-2	48" X 39"	13.00		1			CTH J, CTH U, SEE PLAN SHEET
2	"	W2-6	30" X 30"	6.25			1		
2A	"	W13-1	18" X 18"	2.25					MOUNT BELOW SIGN #2
3	"	R2-1	36" X 48"	12.00			1		45 MPH
4	STH 54 SPLITTER ISLAND, W. OF SEMINARY RD	R4-7	24" X 30"	5.00		1			
5	STH 54, W. OF SEMINARY RD	W3-2	36" X 36"	9.00		1			
6	"	D1-62	156" X 84"	91.00	SEE STRUCTURAL STEEL SUPPORTS				SEE SIGN DETAIL
7	"	J4-1	24" X 36"	6.00		1			STH 54, SEE PLAN SHEET
8	"	R3-6X	42" X 48"	14.00					MOUNT ON CANTILEVER
9	"	R3-6R	42" X 48"	14.00					"
9A	"	W11-15	30" X 30"	6.25			1		
9B	"	W16-7L	24" X 12"	2.00					MOUNT BELOW SIGN #9A
10	STH 54 SPLITTER ISLAND, W. OF SEMINARY RD	D1-1	42" X 30"	8.75		1			SEE SIGN DETAIL
11	"	R1-2	36" X 31"	3.88			1		
11A	"	R6-2R	24" X 30"	5.00					MOUNT BELOW SIGN #11
12	STH 54 AT ROUNDABOUT	R1-2	36" X 31"	3.88		1			
12A	"	R1-54	24" X 15"	2.50					MOUNT BELOW SIGN #12
13	IN ROUNDABOUT	R6-1R	54" X 18"	6.75		2			
13A	"	R6-4B	60" X 24"	10.00					MOUNT BELOW SIGN #13
14	SEMINARY RD, S. OF STH 54	J1-1	24" X 39"	6.50		1			STH 54, SEE PLAN SHEET
15	"	W2-6	30" X 30"	6.25			1		
15A	"	W13-1	18" X 18"	2.25					MOUNT BELOW SIGN #15
16	"	W3-2	36" X 36"	9.00		1			
16A	"	D1-62	108" X 72"	54.00				4	SEE SIGN DETAIL
16B	"	W11-15	30" X 30"	6.25			1		
16C	"	W16-7L	24" X 12"	2.00					MOUNT BELOW SIGN #16B
17	SEMINARY RD. SPLITTER ISLAND, S. OF STH 54	R4-7	24" X 30"	5.00		1			
18	"	R1-2	36" X 31"	3.88			1		
18A	"	R6-2R	24" X 30"	5.00					MOUNT BELOW SIGN #18
19	SEMINARY RD AT ROUNDABOUT	R1-2	36" X 31"	7.75		1			
19A	"	R1-54	24" X 15"	2.50					
20	IN ROUNDABOUT CIRCLE	R6-1R	54" X 18"	6.75		2			
20A	"	R6-4B	60" X 24"	10.00					MOUNT BELOW SIGN #20
21	"	R6-1R	54" X 18"	6.75		2			
21A	"	R6-4B	60" X 24"	10.00					MOUNT BELOW SIGN #21
				365.39	0	16	7	4	

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

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ERECTION OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.0202 SIGNS REFLECTIVE TYPE II S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0622 POSTS WOOD 4x6x22 EACH	REMARKS
1	STH 54, W. OF SEMINARY RD	J1-2	48" X 39"	13.00		1			CTH J, CTH U, SEE PLAN SHEET
1A	RED WILLOW PARKWAY	R1-1	30" X 30"	5.18		1			
2	"	W2-6	30" X 30"	6.25			1		
2A	"	W13-1	18" X 18"	2.25					15 MPH, MOUNT BELOW SIGN #2
3	"	R2-1	36" X 48"	12.00			1		45 MPH
4	STH 54 SPLITTER ISLAND, W. OF SEMINARY RD	R4-7	24" X 30"	5.00		1			
5	STH 54, W. OF SEMINARY RD	W3-2	36" x 36"	9.00		1			
6	"	D1-62	156" X 84"	91.00	SEE STRUCTURAL STEEL SUPPORTS				SEE SIGN DETAIL
7	"	J4-1	24" X 36"	6.00		1			STH 54, SEE PLAN SHEET
8	"	R3-6X	42" X 48"	14.00					MOUNT ON CANTILEVER
9	"	R3-6R	42" X 48"	14.00					"
9A	"	W11-15	30" X 30"	6.25		1			
9B	"	W16-7L	24" X 12"	2.00					
10	STH 54 SPLITTER ISLAND, W. OF SEMINARY RD	D1-1	42" X 30"	8.75		1			SEE SIGN DETAIL
11	"	R1-2	36" X 31"	3.88			1		
11A	"	R6-2R	24" X 30"	5.00					MOUNT BELOW SIGN #11
12	STH 54 AT ROUNDABOUT	R1-2	36" X 31"	3.88		1			
12A	"	R1-54	24" X 15"	2.50					MOUNT BELOW SIGN #12
13	IN ROUNDABOUT	R6-1R	54" X 18"	6.75		2			
13A	"	R6-4B	60" X 24"	10.00					MOUNT BELOW SIGN #13
14	SEMINARY RD, S. OF STH 54	J1-1	24" X 39"	6.50		1			STH 54, SEE PLAN SHEET
14A	"	W11-15	30" X 30"	6.25	1				
15	"	W2-6	30" X 30"	6.25			1		
15A	"	W13-1	18" X 18"	2.25					MOUNT BELOW SIGN #15
16	"	W3-2	36" X 36"	9.00		1			
16A	"	D1-62	108" X 72"	54.00				4	SEE SIGN DETAIL
16B	SEMINARY RD, S. OF STH 54	W11-15	30" X 30"	6.25		1			
16C	"	W16-7L	24" X 12"	2.00					
17	SEMINARY RD. SPLITTER ISLAND, S. OF STH 54	R4-7	24" X 30"	5.00		1			
18	"	R1-2	36" X 31"	3.88			1		
18A	"	R6-2R	24" X 30"	5.00					MOUNT BELOW SIGN #18
19	SEMINARY RD AT ROUNDABOUT	R1-2	36" X 31"	~~7.75~~ 3.88		1			
19A	"	R1-54	24" X 15"	2.50					
20	IN ROUNDABOUT CIRCLE	R6-1R	54" X 18"	6.75		2			
20A	"	R6-4B	60" X 24"	10.00					MOUNT BELOW SIGN #20
21	"	R6-1R	54" X 18"	6.75		2			
21A	"	R6-4B	60" X 24"	10.00					MOUNT BELOW SIGN #21
				376.82	1	19	5	4	

PLAN SHEET PRODUCED

BY WisDOT - NE REGION

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ERECTION OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.0202 SIGNS REFLECTIVE TYPE II S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0622 POSTS WOOD 4x6x22 EACH	REMARKS
22	SEMINARY RD AT ROUNDABOUT	R1-2	36" X 31"	3.88		1			
22A	"	R1-54	24" X 15"	2.50					MOUNT BELOW SIGN #22
23	SEMINARY RD SPLITTER ISLAND, N. OF STH 54	R1-2	36" X 31"	3.88			1		
23A	"	R6-2R	24" X 30"	5.00					MOUNT BELOW SIGN #23
24	"	D1-1	54" X 18"	6.75		2			SEE SIGN DETAIL
25	"	R4-7	24" X 30"	5.00		1			
26	SEMINARY RD N. OF STH 54	D1-62	108" X 72"	54.00				4	SEE SIGN DETAIL
27	"	W3-2	36" X 36"	9.00		1			
28	"	W2-6	30" X 30"	6.25			1		
28A	"	W2-6P	30" X 16"	3.33					MOUNT BELOW SIGN #28
28B	"	W13-1	18" X 18"	2.25					15 MPH, MOUNT BELOW SIGN #28A
29	"	J1-1	24" X 39"	6.50		1			STH 54, SEE PLAN SHEET
30	IN ROUNDABOUT CIRCLE	R6-1R	54" X 18"	6.75		2			
30A	"	R6-4B	60" X 24"	10.00					MOUNT BELOW SIGN #30
31	STH 54 AT ROUNDABOUT	R1-2	36" X 31"	3.88		1			
31A	"	R1-54	24" X 15"	2.50					MOUNT BELOW SIGN #31
32	STH 54 SPLITTER ISLAND, E. OF SEMINARY RD	R1-2	36" X 31"	3.88			1		
32A	"	R6-2R	24" X 30"	5.00					MOUNT BELOW SIGN #32
33	"	D1-1	72" X 30"	15.00		2			SEE SIGN DETAIL
34	VACANT								
35	VACANT								
36	STH 54 E. OF SEMINARY RD	D1-62	156" X 84"	91.00	SEE STRUCTURAL STEEL SUPPORTS				SEE SIGN DETAIL
37	"	W3-2	36" X 36"	9.00		1			
38	STH 54 SPLITTER ISLAND, E. OF SEMINARY RD	R4-7	24" X 30"	5.00		1			
39	STH 54 E. OF SEMINARY RD	J4-1	24" X 36"	6.00		1			STH 54, SEE PLAN SHEET
40	"	R2-1	36" X 48"	12.00		1			35 MPH
40A	"	I2-3	60" X 24"	10.00		2			SEE SIGN DETAIL
41	"	W2-6	30" X 30"	6.25			1		
41A	"	W2-6P	30" X 16"	3.33					MOUNT BELOW SIGN #41
41B	"	W13-1	18" X 18"	2.25					15 MPH, MOUNT BELOW SIGN #41A
42	"	I2-2	54" X 15"	5.63		1	1		SEE SIGN DETAIL
43	"	I2-2	78" X 15"	8.13					SEE SIGN DETAIL, MOUNT ON BACK OF SIGN #42
44	STH 54, W. OF W. SERVICE RD	W1-2R	30" X 30"	6.25		1			

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

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ERECTION OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.0202 SIGNS REFLECTIVE TYPE II S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0622 POSTS WOOD 4x6x22 EACH	REMARKS
22	SEMINARY RD AT ROUNDABOUT	R1-2	36" X 31"	3.88		1			
22A	"	R1-54	24" X 15"	2.50					MOUNT BELOW SIGN #22
23	SEMINARY RD SPLITTER ISLAND, N. OF STH 54	R1-2	36" X 31"	3.88			1		
23A	"	R6-2R	24" X 30"	5.00					MOUNT BELOW SIGN #23
24	"	D1-1	54" X 18"	6.75		2			SEE SIGN DETAIL
25	"	R4-7	24" X 30"	5.00		1			
25A	SEMINARY RD N. OF STH 54	W11-15	30" X 30"	6.25			1		
25B	"	W16-7L	24" X 12"	2.00					MOUNT BELOW SIGN #25A
26	"	D1-62	108" X 72"	54.00				4	SEE SIGN DETAIL
27	"	W3-2	36" X 36"	9.00		1			
28	"	W2-6	30" X 30"	6.25			1		
28A	"	W13-1	18" X 18"	2.25					MOUNT BELOW SIGN #28
29	"	J1-1	24" X 39"	6.50		1			STH 54, SEE PLAN SHEET
30	IN ROUNDABOUT CIRCLE	R6-1R	54" X 18"	6.75		2			
30A	"	R6-4B	60" X 24"	10.00					MOUNT BELOW SIGN #30
31	STH 54 AT ROUNDABOUT	R1-2	36" X 31"	3.88		1			
31A	"	R1-54	24" X 15"	2.50					MOUNT BELOW SIGN #31
32	STH 54 SPLITTER ISLAND, E. OF SEMINARY RD	R1-2	36" X 31"	3.88			1		
32A	"	R6-2R	24" X 30"	5.00					MOUNT BELOW SIGN #32
33	"	D1-1	72" X 30"	15.00		2			SEE SIGN DETAIL
33A	STH 54 E. OF SEMINARY RD	W11-15	30" X 30"	6.25			1		
33B	"	W16-7L	24" X 12"	2.00					MOUNT BELOW SIGN #33A
34	"	R3-6R	42" X 48"	14.00					MOUNT ON CANTILEVER
35	"	R3-6X	42" X 48"	14.00					"
36	"	D1-62	156" X 84"	91.00	SEE STRUCTURAL STEEL SUPPORTS				SEE SIGN DETAIL
37	"	W3-2	36" X 36"	9.00		1			
38	STH 54 SPLITTER ISLAND, E. OF SEMINARY RD	R4-7	24" X 30"	5.00		1			
39	STH 54 E. OF SEMINARY RD	J4-1	24" X 36"	6.00		1			STH 54, SEE PLAN SHEET
40	"	R2-1	36" X 48"	12.00		1			35 MPH
40A	"	I2-3	60" X 24"	10.00		2			SEE SIGN DETAIL
41	"	W2-6	30" X 30"	6.25			1		
41A	"	W13-1	18" X 18"	2.25					MOUNT BELOW SIGN #41
42	"	I2-2	54" X 15"	5.63		1	1		SEE SIGN DETAIL
43	"	I2-2	78" X 15"	8.13					SEE SIGN DETAIL, MOUNT ON BACK OF SIGN #42
44	STH 54, W. OF W. SERVICE RD	W1-2R	30" X 30"	6.25		1			
				358.02	0	19	7	4	

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

Addendum No. 2
ID 9210-11-71
Revised Sheet 192
March 5, 2012

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ERECTION OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.0202 SIGNS REFLECTIVE TYPE II S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0622 POSTS WOOD 4x6x22 EACH	REMARKS
22	SEMINARY RD AT ROUNDABOUT	R1-2	36" X 31"	3.88		1			
22A	"	R1-54	24" X 15"	2.50					MOUNT BELOW SIGN #22
23	SEMINARY RD SPLITTER ISLAND, N. OF STH 54	R1-2	36" X 31"	3.88			1		
23A	"	R6-2R	24" X 30"	5.00					MOUNT BELOW SIGN #23
24	"	D1-1	54" X 18"	6.75		2			SEE SIGN DETAIL
25	"	R4-7	24" X 30"	5.00		1			
25A	SEMINARY RD N. OF STH 54	W11-15	30" X 30"	6.25		1			
25B	"	W16-7L	24" X 12"	2.00					
26	"	D1-62	108" X 72"	54.00				4	SEE SIGN DETAIL
27	"	W3-2	36" X 36"	9.00		1			
28	"	W2-6	30" X 30"	6.25			1		
28A	"	W13-1	18" X 18"	2.25					15 MPH, MOUNT BELOW SIGN #28
29	"	J1-1	24" X 39"	6.50		1			STH 54, SEE PLAN SHEET
30	IN ROUNDABOUT CIRCLE	R6-1R	54" X 18"	6.75		2			
30A	"	R6-4B	60" X 24"	10.00					MOUNT BELOW SIGN #30
31	STH 54 AT ROUNDABOUT	R1-2	36" X 31"	3.88		1			
31A	"	R1-54	24" X 15"	2.50					MOUNT BELOW SIGN #31
32	STH 54 SPLITTER ISLAND, E. OF SEMINARY RD	R1-2	36" X 31"	3.88			1		
32A	"	R6-2R	24" X 30"	5.00					MOUNT BELOW SIGN #32
33	"	D1-1	72" X 30"	15.00		2			SEE SIGN DETAIL
33A	STH 54 AT ROUNDABOUT	W11-15	30" X 30"	6.25		1			
33B	"	W16-7L	24" X 12"	2.00					
34	STH 54 E. OF SEMINARY RD	R3-6R	42" X 48"	14.00					MOUNT ON CANTILEVER
35	"	R3-6X	42" X 48"	14.00					"
36	"	D1-62	156" X 84"	91.00	SEE STRUCTURAL STEEL SUPPORTS				SEE SIGN DETAIL
37	"	W3-2	36" X 36"	9.00		1			
38	STH 54 SPLITTER ISLAND, E. OF SEMINARY RD	R4-7	24" X 30"	5.00		1			
39	STH 54 E. OF SEMINARY RD	J4-1	24" X 36"	6.00		1			STH 54, SEE PLAN SHEET
40	"	R2-1	36" X 48"	12.00		1			35 MPH
40A	"	I2-3	60" X 24"	10.00		2			SEE SIGN DETAIL
41	"	W2-6	30" X 30"	6.25			1		
41A	"	W13-1	18" X 18"	2.25					15 MPH, MOUNT BELOW SIGN #41
42	"	I2-2	54" X 15"	5.63		1	1		SEE SIGN DETAIL
43	"	I2-2	78" X 15"	8.13					SEE SIGN DETAIL, MOUNT ON BACK OF SIGN #42
44-46	VACANT								
				351.77	0	20	5	4	

PLAN SHEET PRODUCED

BY WisDOT - NE REGION

ERECTION OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.0202 SIGNS REFLECTIVE TYPE II S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0622 POSTS WOOD 4x6x22 EACH	REMARKS
45	STH 54, W. OF W. SERVICE RD	W14-3	48" X 36"	6.00					MOUNT ON BACK OF SIGN #44
46	VACANT								
47	STH 54, W. OF W. SERVICE RD	W14-3	48" X 36"	6.00		1			
48	"	R2-1	24" X 30"	5.00					45 MPH, MOUNT ON BACK OF SIGN #47
49	W. SERVICE RD	R1-1	30" X 30"	5.18		1			
50	W. SERVICE RD. ISLAND AT STH 54	W12-1D	24" X 24"	4.00	1				
51	"	J13-2	48" X 45"	15.00		1			CTH U, STH 54, SEE PLAN SHEET
52	"	R1-1	30" X 30"	5.18	1				
53	STH 54, E. OF W. SERVICE RD	J13-2	48" X 45"	15.00		1			CTH J, CTH U, SEE PLAN SHEET
54	"	R2-1	24" X 30"	5.00		1			35 MPH
55	"	R3-7R	30" X 30"	6.25		1			
56	"	D1-2	120" X 24"	20.00		1	1		SEE SIGN DETAIL
57	"	J4-1	24" X 36"	6.00		1			STH 54, SEE PLAN SHEET
58	"	J12-2	48" X 45"	15.00		1			CTH J, CTH U, SEE PLAN SHEET
59	STH 54 AT DUCK CREEK	I3-1	66" X 15"	6.88		2			SEE SIGN DETAIL
60	"	I3-1	66" X 15"	6.88		2			SEE SIGN DETAIL
61	STH 54, W. OF ARTLEY STREET	R2-1	24" X 30"	5.00		1			35 MPH
62	"	R3-7R	30" X 30"	5.18		1			
63	STH 54 AT ARTLEY STREET	J13-1	24" X 45"	7.50		1			CTH U, SEE PLAN SHEET
64	"	R1-1	30" X 30"	5.18		1			
65	"	J13-2	48" X 45"	15.00		1			CTH U, STH 54, SEE PLAN SHEET
66	STH 54, E. OF ARTLEY STREET	J13-1	24" X 45"	7.50		1			CTH U, SEE PLAN SHEET
67	"	R2-1	24" X 30"	5.00					35 MPH
68	STH 54, E. OF CTH U	J1-1	24" X 39"	6.50		1			CTH U, SEE PLAN SHEET
69	ARTLEY STREET	W1-1L	24" X 24"	4.00		1			
70	"	W1-1R	24" X 24"	4.00		1			
71	"	W1-1L	24" X 24"	4.00		1			
72	"	W1-1R	24" X 24"	4.00		1			
	TOTALS			903.96	2	59	11	8	

ERECTING STRUCTURAL STEEL SIGN SUPPORTS

SIGN NO.	635.0200 SIGN SUPPORTS STRUCT. STEEL HIGH-STRENGTH LB	636.0100 SIGN SUPPORTS CONCRETE MASONRY CY	636.0500 SIGN SUPPORTS STEEL REINFORCEMENT LB	TYPE/SIZE OF STEEL
6	576	1.2	68	2-TYPE A
36	576	1.2	68	2-TYPE A
	1152	2.4	136	4

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

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ERECTION OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.0202 SIGNS REFLECTIVE TYPE II S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0622 POSTS WOOD 4x6x22 EACH	REMARKS
45	STH 54, W. OF W. SERVICE RD	W14-3	48" X 36"	6.00					MOUNT ON BACK OF SIGN #44
46	VACANT								
47	STH 54, W. OF W. SERVICE RD	W14-3	48" X 36"	6.00		1			
48	"	R2-1	24" X 30"	5.00					45 MPH, MOUNT ON BACK OF SIGN #47
49	W. SERVICE RD	R1-1	30" X 30"	5.18		1			
50	W. SERVICE RD. ISLAND AT STH 54	W12-1D	24" X 24"	4.00	1				
51	"	J13-2	48" X 45"	15.00		1			CTH U, STH 54, SEE PLAN SHEET
52	"	R1-1	30" X 30"	5.18	1				
53	STH 54, E. OF W. SERVICE RD	J13-2	48" X 45"	15.00		1			CTH J, CTH U, SEE PLAN SHEET
54	"	R2-1	24" X 30"	5.00		1			35 MPH
55	"	R3-7R	30" X 30"	6.25		1			
56	"	D1-2	120" X 24"	20.00		1	1		SEE SIGN DETAIL
57	"	J4-1	24" X 36"	6.00		1			STH 54, SEE PLAN SHEET
58	"	J12-2	48" X 45"	15.00		1			CTH J, CTH U, SEE PLAN SHEET
59	STH 54 AT DUCK CREEK	I3-1	66" X 15"	6.88		2			SEE SIGN DETAIL
60	"	I3-1	66" X 15"	6.88		2			SEE SIGN DETAIL
61	STH 54, W. OF ARTLEY STREET	R2-1	24" X 30"	5.00		1			35 MPH
62	"	R3-7R	30" X 30"	5.18		1			
63	STH 54 AT ARTLEY STREET	J13-1	24" X 45"	7.50		1			CTH U, SEE PLAN SHEET
64	"	R1-1	30" X 30"	5.18		1			
65	"	J13-2	48" X 45"	15.00		1			CTH U, STH 54, SEE PLAN SHEET
66	STH 54, E. OF ARTLEY STREET	J13-1	24" X 45"	7.50		1			CTH U, SEE PLAN SHEET
67	"	R2-1	24" X 30"	5.00					35 MPH
68	STH 54, E. OF CTH U	J1-1	24" X 39"	6.50		1			CTH U, SEE PLAN SHEET
69	ARTLEY STREET	W1-1L	24" X 24"	4.00		1			
70	"	W1-1R	24" X 24"	4.00		1			
71	"	W1-1L	24" X 24"	4.00		1			
72	"	W1-1R	24" X 24"	4.00		1			
TOTALS				923.63	2	59	15	8	

ERECTING STRUCTURAL STEEL SIGN SUPPORTS

SIGN NO.	635.0200 SIGN SUPPORTS STRUCT. STEEL HIGH-STRENGTH LB	636.0100 SIGN SUPPORTS CONCRETE MASONRY CY	636.0500 SIGN SUPPORTS STEEL REINFORCEMENT LB	TYPE/SIZE OF STEEL
6	576	1.2	68	2-TYPE A
36	576	1.2	68	2-TYPE A
	1152	2.4	136	4

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

Addendum No. 2
ID 9210-11-71
Revised Sheet 193
March 5, 2012

ERECTION OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.0202 SIGNS REFLECTIVE TYPE II S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0622 POSTS WOOD 4x6x22 EACH	REMARKS
46A	STH 54, W. OF W SERVICE RD	I2-3	54" X 24"	9.00		1			"ONEIDA"
~~47~~ 75	~~VACANT~~ STH 54, W. OF W. SERVICE RD	J4-1	24" X 36"	6.00		1			
48	STH 54, W. OF W. SERVICE RD	R2-1	24" X 30"	5.00		1			35 MPH
48A	W. SERVICE RD	W3-1	36" X 36"	9.00		1			
48B	"	R2-1	24" X 30"	5.00	1				30 MPH
49	W. SERVICE RD	R1-1	30" X 30"	5.18		1			
50	W. SERVICE RD. ISLAND AT STH 54	W12-1D	24" X 24"	4.00	1				
51	"	J13-2	48" X 45"	15.00		1			CTH U, STH 54, SEE PLAN SHEET
52	"	R1-1	30" X 30"	5.18	1				
53	STH 54, E. OF W. SERVICE RD	J13-2	48" X 45"	15.00		1			CTH J, CTH U, SEE PLAN SHEET
54	"	R2-1	24" X 30"	5.00		1			35 MPH
55	"	R3-7R	30" X 30"	6.25		1			
56	"	D1-2	120" X 24"	20.00		1	1		SEE SIGN DETAIL
57	"	J4-1	24" X 36"	6.00		1			STH 54, SEE PLAN SHEET
58	"	J12-2	48" X 45"	15.00		1			CTH J, CTH U, SEE PLAN SHEET
59	STH 54 AT DUCK CREEK	I3-1	66" X 15"	6.88		2			SEE SIGN DETAIL
60	"	I3-1	66" X 15"	6.88		2			SEE SIGN DETAIL
61	STH 54, W. OF ARTLEY STREET	R2-1	24" X 30"	5.00		1			35 MPH
62	"	R3-7R	30" X 30"	~~5.18~~ 6.25		1			
63	STH 54 AT ARTLEY STREET	J13-1	24" X 45"	7.50		1			CTH U, SEE PLAN SHEET
64	"	R1-1	30" X 30"	5.18		1			
65	"	J13-2	48" X 45"	15.00		1			CTH U, STH 54, SEE PLAN SHEET
66	STH 54, E. OF ARTLEY STREET	J13-1	24" X 45"	7.50		1			CTH U, SEE PLAN SHEET
66A	STH 54. E. OF CTH U	J4-1	24" X 36"	6.00	1	1			EAST STH 54, SEE PLAN SHEET
67	"	R2-1	24" X 30"	5.00					35 MPH
67A	"	J1-2	48" X 39"	13.00		1	1		JCT STH 172, JCT CTH E, SEE PLAN SHEET
68	STH 54, E. OF CTH U	J1-1	24" X 39"	6.50		1			CTH U, SEE PLAN SHEET
69	ARTLEY STREET	W1-1L	24" X 24"	4.00		1			
70	"	W1-1R	24" X 24"	4.00		1			
70A	ARTLEY ST	R2-1	24" X 30"	5.00	1				25 MPH
71	"	W1-1L	24" X 24"	4.00		1			
72	"	W1-1R	24" X 24"	4.00		1			
73	"	R1-1	30" X 30"	5.18		1			
74	CTH U	W3-1	36" X 36"	9.00		1			
TOTALS				968.99	6	~~66~~ 69	12	8	

ERECTING STRUCTURAL STEEL SIGN SUPPORTS

SIGN NO.	635.0200 SIGN SUPPORTS STRUCT. STEEL HIGH-STRENGTH LB	636.0100 SIGN SUPPORTS CONCRETE MASONRY CY	636.0500 SIGN SUPPORTS STEEL REINFORCEMENT LB	TYPE/SIZE OF STEEL
6	576	1.2	68	2-TYPE A
36	576	1.2	68	2-TYPE A
	1152	2.4	136	4

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

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REMOVING, TYPE II SIGNS AND REMOVING SMALL SIGN SUPPORTS

SIGN	LOCATION	SIGN CODE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
100	W. OF SEMINARY RD	R1-1	1	1	
101	"	J4-1	2	1	
102	VACANT				
103	W. OF SEMINARY RD	R2-1	1	1	
104	"	R2-1	1	1	
105	"	R7-1R	1		
106	"	J1-2	3	1	
107	"	R7-1L	1		
108	"	W3-3	1	1	
109	"	R7-1D	1	1	
110	"	R2-1	1	1	
111	"	R7-1D	1		
112	"	R7-1D	1	1	
113	"	R2-1	1	1	
114	"	R7-1L	1		
115	AT SEMINARY RD	J13-2	3	1	
116	SEMINARY RD	J13-1	2	1	
117	"	J13-1	2		
118	"	R1-1F	1		REMOVE FROM TRAFFIC SIGNAL
119	"	R1-1F	1		REMOVE FROM TRAFFIC SIGNAL
120	E. OF SEMINARY RD	R2-1	1	1	
121	"	J4-1	2	1	
122	"	R2-1	1	1	
123	"	W3-3	1	1	
124	"	I2-3	1	2	
125	"	I2-2	1	1	
126	"	I2-2	1		
127	W. OF W. SERVICE RD	W1-2R	1	1	
128	"	W14-3	1		
129	"	W11-2	1	1	
130	"	W57-51	1		
131	"	W14-3	1	1	
132	"	R2-1	1		

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

3

REMOVING, TYPE II SIGNS AND REMOVING SMALL SIGN SUPPORTS

SIGN	LOCATION	SIGN CODE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
100	W. OF SEMINARY RD	R1-1	1	1	
101	"	J4-1	2	1	
102	VACANT				
103	W. OF SEMINARY RD	R2-1	1	1	
104	"	R2-1	1	1	
105	"	R7-1R	1		
106	"	J1-2	3	1	
107	"	R7-1L	1		
108	"	W3-3	1	1	
109	"	R7-1D	1	1	
110	"	R2-1	1	1	
111	"	R7-1D	1		
112	"	R7-1D	1	1	
113	"	R2-1	1	1	
114	"	R7-1L	1		
115	AT SEMINARY RD	J13-2	3	1	
116	SEMINARY RD	J13-1	2	1	
117	"	J13-1	2		
118	"	R1-1F	1		REMOVE FROM TRAFFIC SIGNAL
119	"	R1-1F	1		REMOVE FROM TRAFFIC SIGNAL
120	E. OF SEMINARY RD	R2-1	1	1	
121	"	J4-1	2	1	
122	"	R2-1	1	1	
123	"	W3-3	1	1	
124	"	I2-3	1	2	
125	"	I2-2	1	1	
126	"	I2-2	1		
127	W. OF W. SERVICE RD	W1-2R	1	1	
128	"	W14-3	1		
129	"	W11-2	1	1	
130	"	W57-51	1		
131	"	W14-3	1	1	
132	"	R2-1	1		
			40	22	

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

3

REMOVING, TYPE II SIGNS AND REMOVING SMALL SIGN SUPPORTS

SIGN	LOCATION	SIGN CODE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
133	VACANT				
134	W. SERVICE RD	R1-1	1	1	
135	AT W. SERVICE RD	W5-2	1	1	
136	"	J13-2	3	1	
137	W. SERVICE RD	R1-1	1	1	
138	E. OF W. SERVICE RD	R2-1	1	1	
139	"	J13-2	3	1	
140	"	D1-1	1	2	
141	"	J4-1	2	1	
142	"	W1-2L	1	1	
143	W. OF ARTLEY ST	J12-2	3	1	
144	"	SP	1	1	"40 TON BRIDGE"
145	"	I3-1	1	1	
146	"	W5-52L	1	1	
147	"	W5-52R	1	1	
148	"	W5-52R	1	1	
149	"	W5-52L	1	1	
150	"	I3-1	1	1	
151	"	SP	1	1	"40 TON BRIDGE"
152	"	R2-1	1	1	
153	ARTLEY ST	R1-1	1	1	
154	E. OF ARTLEY ST	R2-1	1	1	
155	"	W11-2	1	1	
156	"	W57-51	1		
157	W. OF CTH U	M1-6	1	1	
158	"	W1-6	1		
159	"	J13-2	3	1	
160	CTH U ISLAND AT STH 54	R1-1	1	1	
161	"	J13-1	2	1	
162	"	R4-7	1		
163	E. OF CTH U	J13-1	2	1	
164	CTH U	R1-1	1	1	
165	E. OF CTH U	J1-2	3	1	
166	"	R2-1	1	1	
167	"	J1-1	2	1	
			88	54	

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

3

REMOVING, TYPE II SIGNS AND REMOVING SMALL SIGN SUPPORTS

SIGN	LOCATION	SIGN CODE	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
133	VACANT				
134	W. SERVICE RD	R1-1	1	1	
135	AT W. SERVICE RD	W5-2	1	1	
136	"	J13-2	3	1	
137	W. SERVICE RD	R1-1	1	1	
138	E. OF W. SERVICE RD	R2-1	1	1	
139	"	J13-2	3	1	
140	"	D1-1	1	2	
141	"	J4-1	2	1	
142	"	W1-2L	1	1	
143	W. OF ARTLEY ST	J12-2	3	1	
144	"	SP	1	1	"40 TON BRIDGE"
145	"	I3-1	1	1	
146	"	W5-52L	1	1	
147	"	W5-52R	1	1	
148	"	W5-52R	1	1	
149	"	W5-52L	1	1	
150	"	I3-1	1	1	
151	"	SP	1	1	"40 TON BRIDGE"
152	"	R2-1	1	1	
153	ARTLEY ST	R1-1	1	1	
154	E. OF ARTLEY ST	R2-1	1	1	
155	"	W11-2	1	1	
156	"	W57-51	1		
157	W. OF CTH U	M1-6	1	1	
158	"	W1-6	1		
159	"	J13-2	3	1	
160	CTH U ISLAND AT STH 54	R1-1	1	1	
161	"	J13-1	2	1	
162	"	R4-7	1		
163	E. OF CTH U	J13-1	2	1	
164	CTH U	R1-1	1	1	
165	E. OF CTH U	J1-2	3	1	
166	"	R2-1	1	1	
167	"	J1-1	2	1	
			88	54	

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	RIGHT OF WAY ACRES REQUIRED NEW	EXISTING	TOTAL	TLE PLE ACRES
1	WELDON N. HAWK AND GLORIA J. HAWK	FEE	2.779	1.039	3.818	-
84	NSIGHT, INC (F.K.A. NORTHEAST TELEPHONE COMPANY)	RELEASE OF RIGHTS	-	-	-	-

NOTE: PARCEL 1 INTERESTS INCLUDE LANDS LYING BETWEEN THE MEANDER LINE AND APPROXIMATE ORDINARY HIGH WATER MARK

OWNERS NAMES ARE SHOWN FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DOT.

TRANSPORTATION PROJECT PLAT NO: 9210-11-22-4.01

LOCATED IN PART OF INDIAN CLAIMS 146 AND 153, SECTION 3, T 23N, R 19 E.
VILLAGE OF HOBART, BROWN COUNTY, WISCONSIN.

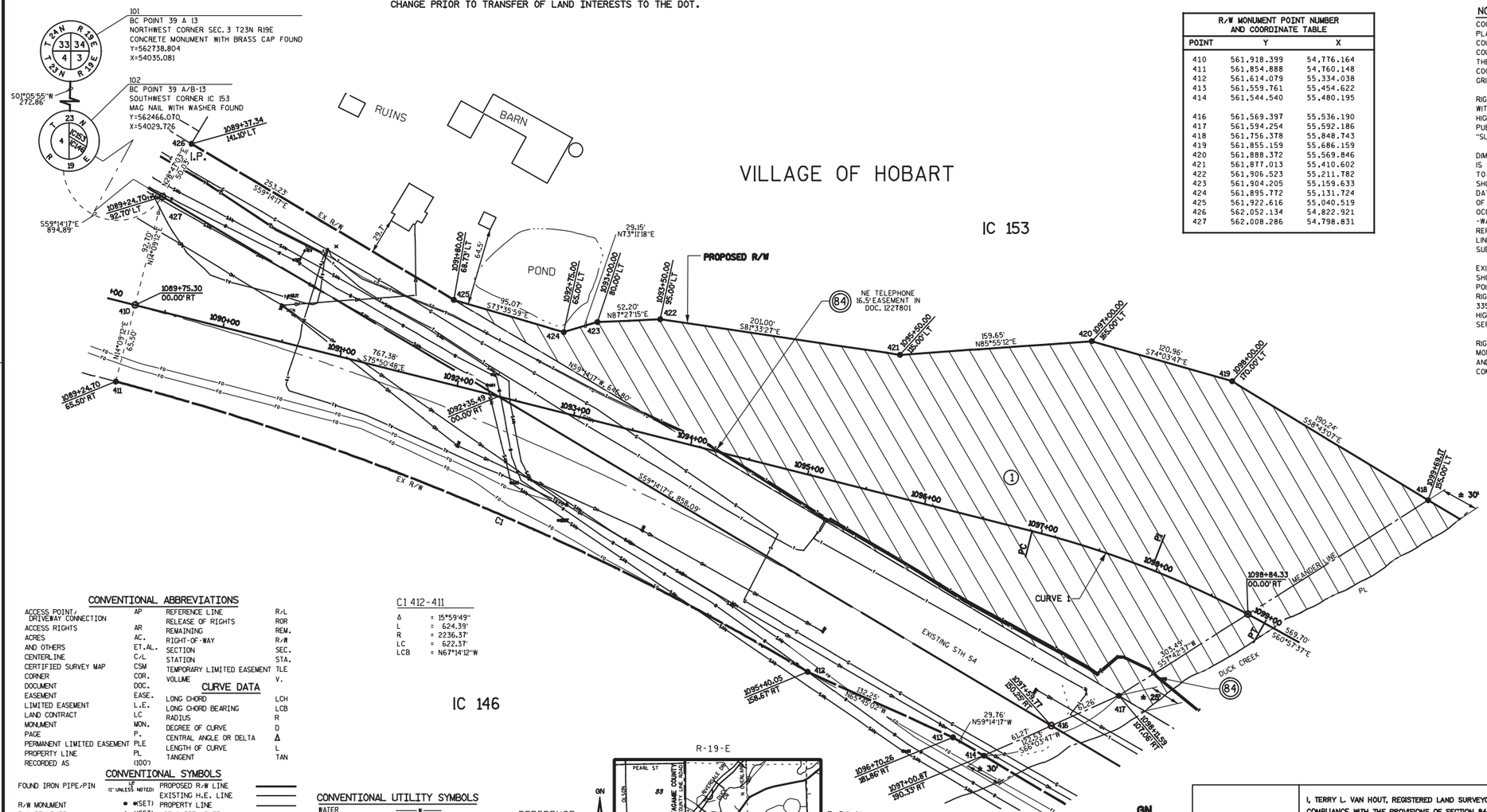
RELOCATION ORDER FOR STH 54, BROWN COUNTY
STH 54, ONEIDA - GREEN BAY
DUCK CREEK BRIDGE AND APPROACHES

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3) AND SECTION 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9210-11-22-4.01
AMENDMENT NO:



R/W MONUMENT POINT NUMBER AND COORDINATE TABLE		
POINT	Y	X
410	561,918.399	54,776.164
411	561,854.888	54,760.148
412	561,614.079	55,334.038
413	561,559.761	55,454.622
414	561,544.540	55,480.195
416	561,569.397	55,536.190
417	561,594.254	55,592.186
418	561,756.378	55,848.743
419	561,855.159	55,686.159
420	561,888.372	55,569.846
421	561,877.013	55,410.602
422	561,906.523	55,211.782
423	561,904.205	55,159.633
424	561,895.772	55,131.724
425	561,922.616	55,040.519
426	562,052.134	54,822.921
427	562,008.286	54,798.831

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.	**CURVE DATA**	
LIMITED EASEMENT	L.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	Δ
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

C1 412-411
Δ = 15°59'49"
L = 624.39'
R = 2236.37'
LC = 622.37'
LCB = N67°14'12"W

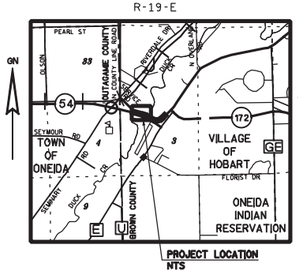
CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	○ 1" UNLESS NOTED	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W MONUMENT	● =(SET)	PROPERTY LINE	
R/W STANDARD	▲ =(SET)	LOT & TIE LINES	
SIGN	SIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		CORPORATE LIMITS	
SECTION CORNER SYMBOL	(SEC 3 1988)	NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		NO ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT	TLE	NO ACCESS (BY STATUTORY AUTHORITY)	
LIMITED EASEMENT	LE	SECTION LINE	
R/W BOUNDARY POINT	472	QUARTER LINE	
PARCEL NUMBER	(12)	SIXTEENTH LINE	
UTILITY PARCEL NUMBER	(32)	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	(21)	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

WATER	—W—	
GAS	—G—	
TELEPHONE	—T—	
OVERHEAD TRANSMISSION LINES	—OH—	
ELECTRIC	—E—	
CABLE TELEVISION	—TV—	
FIBER OPTIC	—FO—	
SANITARY SEWER	—SAN—	
STORM SEWER	—SS— NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

REFERENCE
STH 54
CURVE 1
PI = 1097+96.59
Y = 561,705.207
X = 55,621.592
Δ = 14°53'11" RT
D = 7°09'43"
T = 104.52'
L = 207.85'
R = 800.00'
PC = 1096+92.08
PT = 1098+99.93



SCALE, FEET 0 50 100

GN

Mead & Hunt
Mead & Hunt, Inc.
1345B North Road
Green Bay, WI 54313
920.496.0500
fax: 920.496.0576
www.meadhunt.com

I, TERRY L. VAN HOUT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9210-11-22-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TERRY L. VAN HOUT S-2526 GREEN BAY, WI LAND SURVEYOR

DATE 4-5-2011

TERRY L. VAN HOUT,
RLS 2526

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE

PRINTED NAME

FILE NAME : X:\23046-70\08037\TECH\CADD\RW\RW-GREEN BAY\RW-2010\STH54040101-50.dgn
PLOT DATE : 4/5/2011
PLOT BY : 280hkg
PLOT NAME :
PLOT SCALE : 100.0000 sf / in.
APPRAISAL PLAT DATE : 4-5-2011

4.01

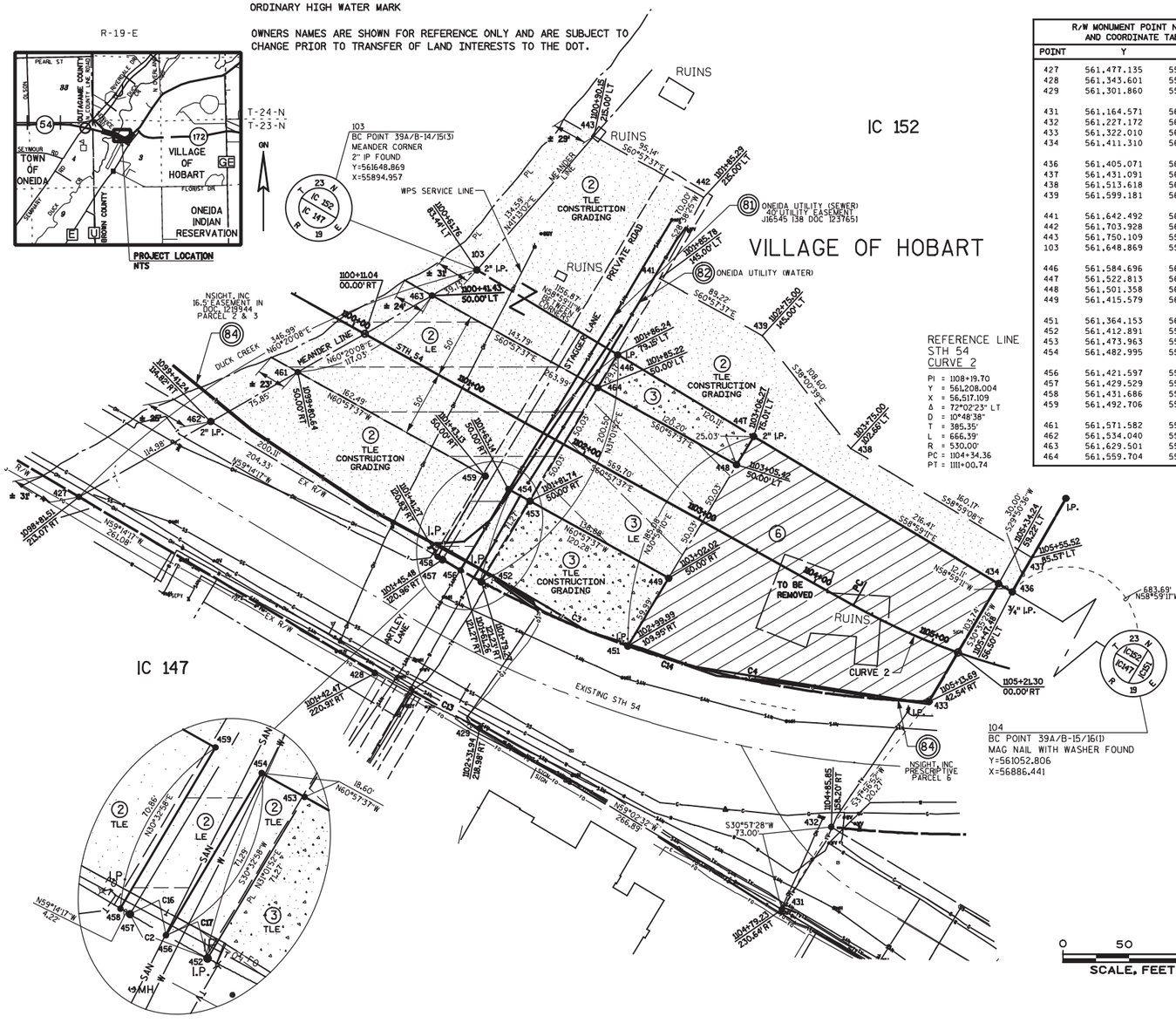
STH54040101-50.dgn 4/5/2011 10:22:31 AM

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	RIGHT OF WAY ACRES REQUIRED NEW	EXISTING	TOTAL	LE ACRES	TLE PLE ACRES
2	ONEIDA TRIBE OF INDIANS OF WISCONSIN	LE & TLE	-	-	-	0.477	1.240
3	ONEIDA TRIBE OF INDIANS OF WISCONSIN	LE & TLE	-	-	-	0.276	0.260
6	DUCK CREEK DEVELOPMENT INC.	FEE	0.756	-	0.756	-	-
81	ONEIDA UTILITY (SEWER)	RELEASE OF RIGHTS	-	-	-	-	-
82	ONEIDA UTILITY (WATER)	RELEASE OF RIGHTS	-	-	-	-	-
84	NSIGHT, INC (F.K.A. NORTHEAST TELEPHONE COMPANY)	RELEASE OF RIGHTS	-	-	-	-	-

NOTE: PARCEL 2 INTERESTS INCLUDE LANDS LYING BETWEEN THE MEANDER LINE AND APPROXIMATE ORDINARY HIGH WATER MARK

OWNERS NAMES ARE SHOWN FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DOT.



R/W MONUMENT POINT NUMBER AND COORDINATE TABLE		
POINT	Y	X
427	561,477.135	55,593.439
428	561,343.601	55,817.784
429	561,301.860	55,896.942
431	561,164.571	56,125.810
432	561,227.172	56,163.362
433	561,322.010	56,237.318
434	561,411.310	56,290.110
436	561,405.071	56,300.488
437	561,431.091	56,315.416
438	561,513.618	56,178.146
439	561,599.181	56,111.271
441	561,642.492	56,033.264
442	561,703.928	56,066.816
443	561,750.109	55,983.640
103	561,648.869	55,894.957
446	561,584.696	56,001.700
447	561,522.813	56,104.637
448	561,501.358	56,091.753
449	561,415.579	56,040.240
451	561,364.153	56,009.357
452	561,412.891	55,898.342
453	561,473.963	55,935.083
454	561,482.995	55,918.817
456	561,421.597	55,882.579
457	561,429.529	55,868.934
458	561,431.686	55,865.310
459	561,492.706	55,901.325
461	561,571.582	55,759.262
462	561,534.040	55,693.349
463	561,629.501	55,860.952
464	561,559.704	55,986.665

CONVENTIONAL ABBREVIATIONS

ACCESS POINT, DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.		
LIMITED EASEMENT	L.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(DOC.)		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	Δ
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	● (IF UNLESS NOTED)	PROPOSED R/W LINE
R/W MONUMENT	● (SET)	EXISTING H.E. LINE
R/W STANDARD	▲ (SET)	PROPERTY LINE
SIGN	SIGN	LOT & TIE LINES
SECTION CORNER MONUMENT	●	SLOPE INTERCEPTS
SECTION CORNER SYMBOL	(SEC. COR.)	CORPORATE LIMITS
FEE (HATCH VARIES)		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
TEMPORARY LIMITED EASEMENT PARCEL 2		NO ACCESS (BY ACQUISITION)
TEMPORARY LIMITED EASEMENT PARCEL 3		NO ACCESS (BY STATUTORY AUTHORITY)
LIMITED EASEMENT PARCEL 2		SECTION LINE
LIMITED EASEMENT PARCEL 3		QUARTER LINE
R/W BOUNDARY POINT	472	SIXTEENTH LINE
PARCEL NUMBER	(82)	EXISTING CENTERLINE
UTILITY PARCEL NUMBER	(92)	PROPOSED REFERENCE LINE
SIGN NUMBER (OFF PREMISE)	(21)	PARALLEL OFFSET
BUILDING		

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

TRANSPORTATION PROJECT PLAT NO: 9210-11-22-4.02

LOCATED IN PART OF INDIAN CLAIM 147 AND 152. SECTION 3. T 23N. R 19 E.
VILLAGE OF HOBART. BROWN COUNTY. WISCONSIN.

RELOCATION ORDER FOR STH 54. BROWN COUNTY
STH 54. ONEIDA - GREEN BAY
DUCK CREEK BRIDGE AND APPROACHES

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3) AND SECTION 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9210-11-22-4.02
AMENDMENT NO:

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, BROWN COUNTY ZONE, NAD 83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD."

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES. PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. EXCLUDING RIGHT-OF -WAY LINES, THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY PLAT SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY OF STH 54 STATE PROJECT 3350, AND PROJECT F 038-2(17). EXISTING HIGHWAY RIGHT-OF-WAY OF CTH U (EAST SERVICE ROAD) PROJECT S 037(16)

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLES ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A LIMITED EASEMENT (LE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

C2 452-457		C3 451-452		C4 433-451	
Δ	= 2°31'30"	Δ	= 9°04'07"	Δ	= 17°23'19"
L	= 33.79'	L	= 121.37'	L	= 232.72'
R	= 766.81'	R	= 766.81'	R	= 766.81'
LC	= 33.79'	LC	= 121.24'	LC	= 231.82'
LCB	= N60°30'02"W	LCB	= N66°17'51"W	LCB	= N79°31'34"W

C13 429-428		C14 433-457		C16 456-457		C17 452-456	
Δ	= 5°55'04"	Δ	= 28°58'56"	Δ	= 1°10'46"	Δ	= 1°20'44"
L	= 89.53'	L	= 387.88'	L	= 15.78'	L	= 18.01'
R	= 866.81'	R	= 766.81'	R	= 766.81'	R	= 766.81'
LC	= 89.49'	LC	= 383.75'	LC	= 15.78'	LC	= 18.01'
LCB	= N62°11'49"W	LCB	= N73°43'45"W	LCB	= N59°49'40"W	LCB	= N61°05'25"W

Mead & Hunt
Mead & Hunt, Inc.
1345B North Road
Green Bay, WI 54313
920.496.0500
fax: 920.496.0576
www.meadhunt.com

I, TERRY L. VAN HOUT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9210-11-22-4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TERRY L. VAN HOUT S-2528 GREEN BAY, WI LAND SURVEYOR

DATE 4-5-2011

TERRY L. VAN HOUT,
RLS 2528

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE _____

PRINTED NAME _____

FILE NAME : X:\23046-70\08037\TECH\CADD\RW\RW-GREEN BAY\RW-2010\STH54040102-50.dgn PLOT DATE : 4/5/2011 PLOT BY : 280hkg PLOT NAME : PLOT SCALE : 100.0000 sf / in.
APPRAISAL PLAT DATE : 4-5-2011

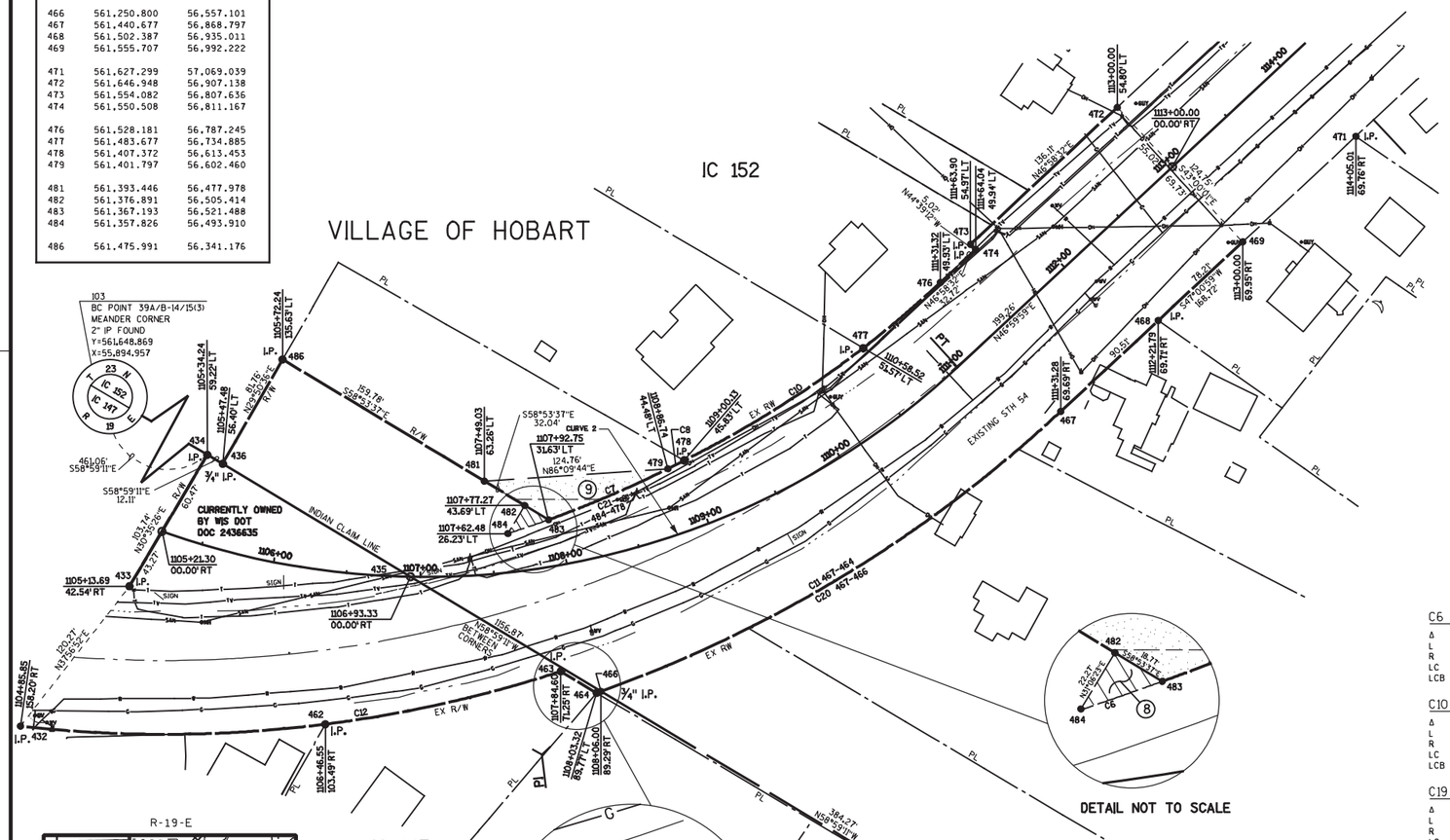
STH54040102-50.dgn 4/5/2011 10:32:04 AM

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	RIGHT OF WAY ACRES REQUIRED NEW	EXISTING	TOTAL	LE ACRES	TLE PLE ACRES
8	LAWRENCE J. AND SANDRA A. BRENWALL	FEE	0.007	-	0.007	-	-
9	USA IN TRUST FOR ERNIE STEVENS, JR	LE	-	-	-	0.043	-

OWNERS NAMES ARE SHOWN FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DOT.

R/W MONUMENT POINT NUMBER AND COORDINATE TABLE		
POINT	Y	X
432	561,227.172	56,163.362
433	561,322.010	56,237.318
434	561,411.310	56,290.110
435	561,328.516	56,427.829
436	561,405.071	56,300.488
462	561,228.523	56,370.153
463	561,264.297	56,529.704
464	561,249.736	56,554.116
466	561,250.800	56,557.101
467	561,440.677	56,868.797
468	561,502.387	56,935.011
469	561,555.707	56,992.222
471	561,627.299	57,069.039
472	561,646.948	56,907.138
473	561,554.082	56,807.636
474	561,550.508	56,811.167
476	561,528.181	56,787.245
477	561,483.677	56,734.885
478	561,407.372	56,613.453
479	561,401.797	56,602.460
481	561,393.446	56,477.978
482	561,376.891	56,505.414
483	561,367.193	56,521.488
484	561,357.826	56,493.910
486	561,475.991	56,341.176



TRANSPORTATION PROJECT PLAT NO: 9210-11-22-4.03

LOCATED IN PART OF INDIAN CLAIM 147 AND 152, SECTION 3, T 23N, R 19 E, VILLAGE OF HOBART, BROWN COUNTY, WISCONSIN.

RELOCATION ORDER FOR STH 54, BROWN COUNTY
STH 54, ONEIDA - GREEN BAY
DUCK CREEK BRIDGE AND APPROACHES

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTION 84.02 (3) AND SECTION 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE NAMED PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9210-11-22-4.03
AMENDMENT NO:

CONVENTIONAL ABBREVIATIONS

ACCESS POINT, DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET. AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.		
LIMITED EASEMENT	L.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(DOC#)		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	Δ
LENGTH OF CURVE	L
TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⌀ (1" UNLESS NOTED)	PROPOSED R/W LINE	
		EXISTING H.E. LINE	
R/W MONUMENT	● (SET)	PROPERTY LINE	
R/W STANDARD	▲ (SET)	LOT & TIE LINES	
SIGN	SIGN	SLOPE INTERCEPTS	
SECTION CORNER MONUMENT		CORPORATE LIMITS	
SECTION CORNER SYMBOL		NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		NO ACCESS (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	472	QUARTER LINE	
PARCEL NUMBER	(8)	SIXTEENTH LINE	
UTILITY PARCEL NUMBER	(92)	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	(24-1)	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

NOTES:

COORDINATES AND BEARINGS SHOWN ON THIS PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, BROWN COUNTY ZONE, NAD 83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD."

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES. PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. EXCLUDING RIGHT-OF-WAY LINES, THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY PLAT SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY OF STH 54 STATE PROJECT 3350, AND PROJECT F 038-2(17). EXISTING HIGHWAY RIGHT-OF-WAY OF CTH U (EAST SERVICE ROAD) PROJECT S 0377(6)

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLES ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A LIMITED EASEMENT (LE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

C6 484-483

Δ	= 2°10'35"
L	= 29.13'
R	= 766.81'
LC	= 29.12'
LCB	= N71°14'23"E

C7 483-479

Δ	= 6°34'59"
L	= 88.10'
R	= 766.81'
LC	= 88.06'
LCB	= N°51'36"E

C8 479-478

Δ	= 0°55'16"
L	= 12.33'
R	= 766.81'
LC	= 12.33'
LCB	= N63°06'29"E

C10 478-476

Δ	= 16°26'22"
L	= 212.38'
R	= 740.21'
LC	= 211.66'
LCB	= N55°11'43"E

C11 467-464

Δ	= 23°28'14"
L	= 370.67'
R	= 904.86'
LC	= 368.08'
LCB	= S58°45'06"W

C12 463-432

Δ	= 24°31'34"
L	= 371.04'
R	= 866.81'
LC	= 368.22'
LCB	= S84°12'48"W

C19 466-464

Δ	= 0°12'02"
L	= 3.17'
R	= 904.86'
LC	= 3.17'
LCB	= S70°23'12"W

C20 467-466

Δ	= 23°16'11"
L	= 367.50'
R	= 904.86'
LC	= 364.98'
LCB	= S58°39'05"W

C21 484-478

Δ	= 9°40'50"
L	= 129.56'
R	= 766.81'
LC	= 364.98'
LCB	= N67°29'16"E

Mead & Hunt
Mead & Hunt, Inc.
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Green Bay, WI 54313
920.496.0500
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I, TERRY L. VAN HOUT, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9210-11-22-4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TERRY L. VAN HOUT S-2526 GREEN BAY, WI LAND SURVEYOR

DATE 4-5-2011

TERRY L. VAN HOUT,
RLS 2526

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE _____

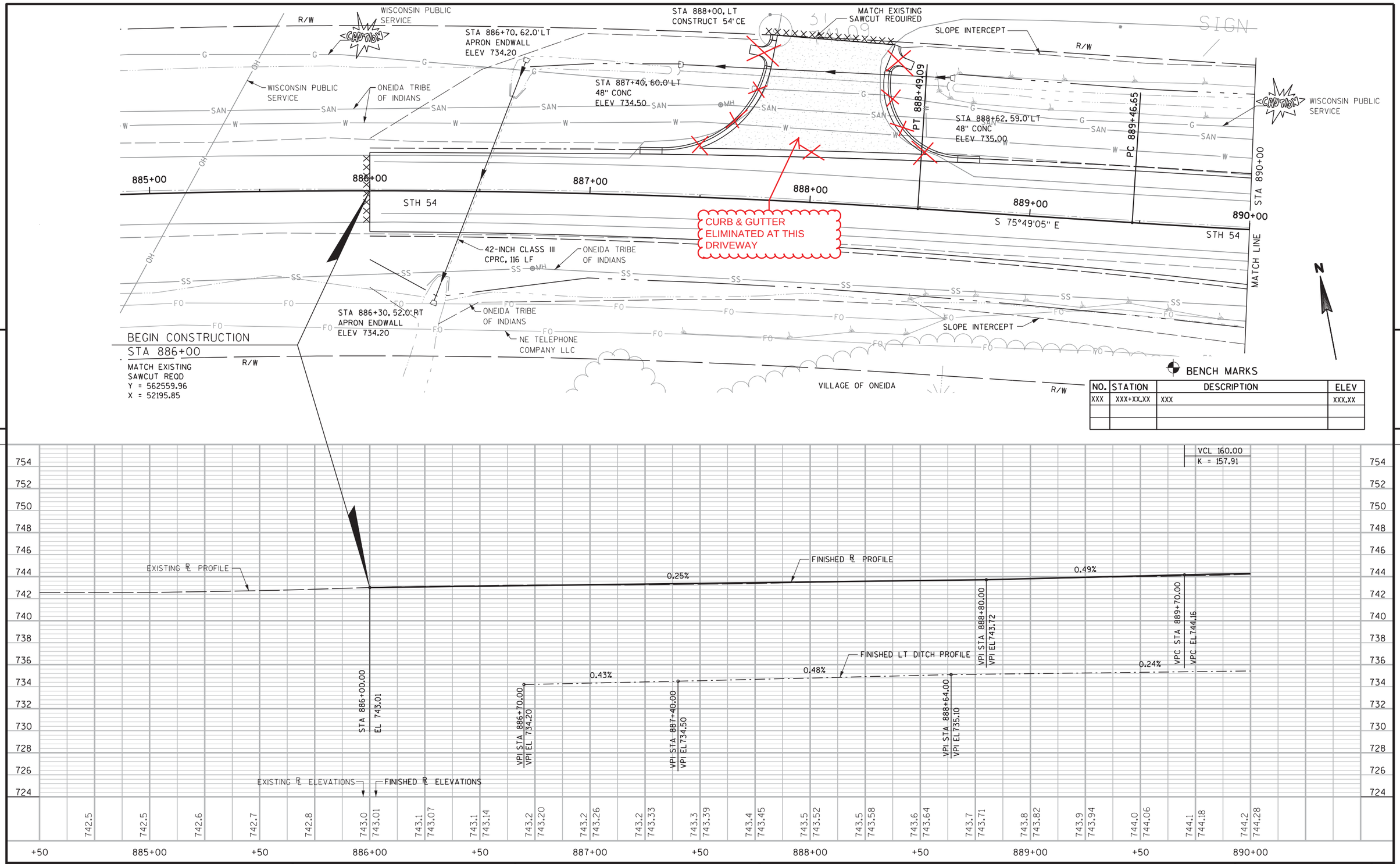
_____ PRINTED NAME

FILE NAME : X:\23046-70\08037\TECH\CADD\RW\RW-GREEN BAY\RW-2010\STH54040103-50.dgn PLOT DATE : 4/5/2011 PLOT BY : 280hkg PLOT NAME : PLOT SCALE : 100.0000 sf / in.

APPRAISAL PLAT DATE : 4-5-2011

4.03

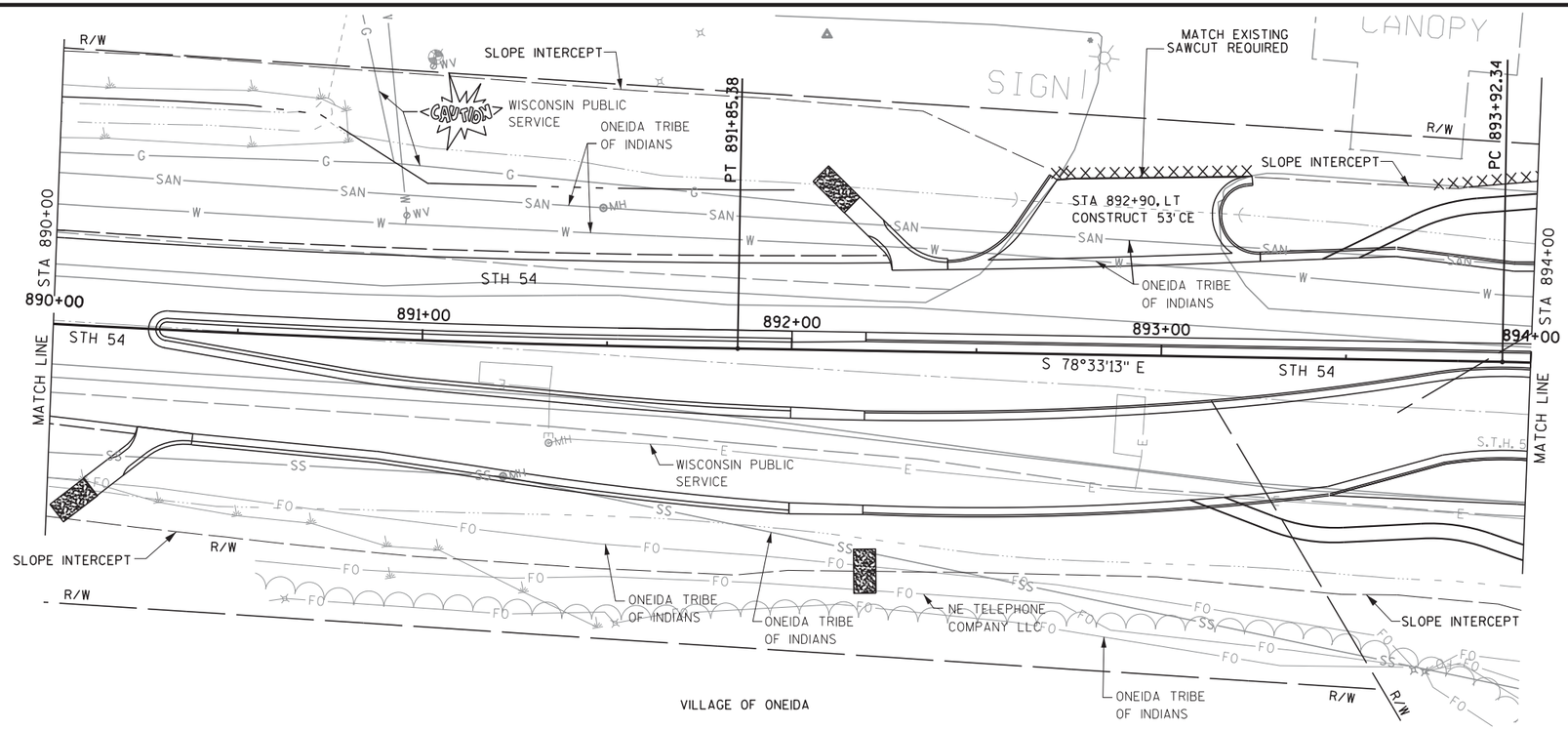
STH54040103-50.dgn 4/5/2011 10:33:08 AM

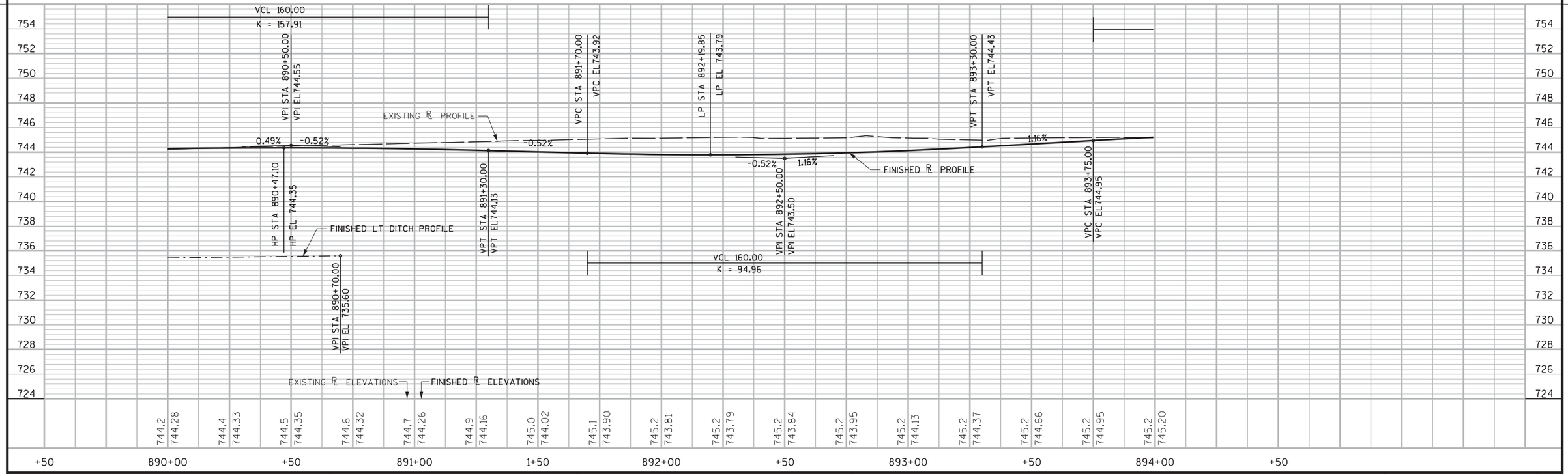


PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN AND PROFILE - STH 54	SHEET E

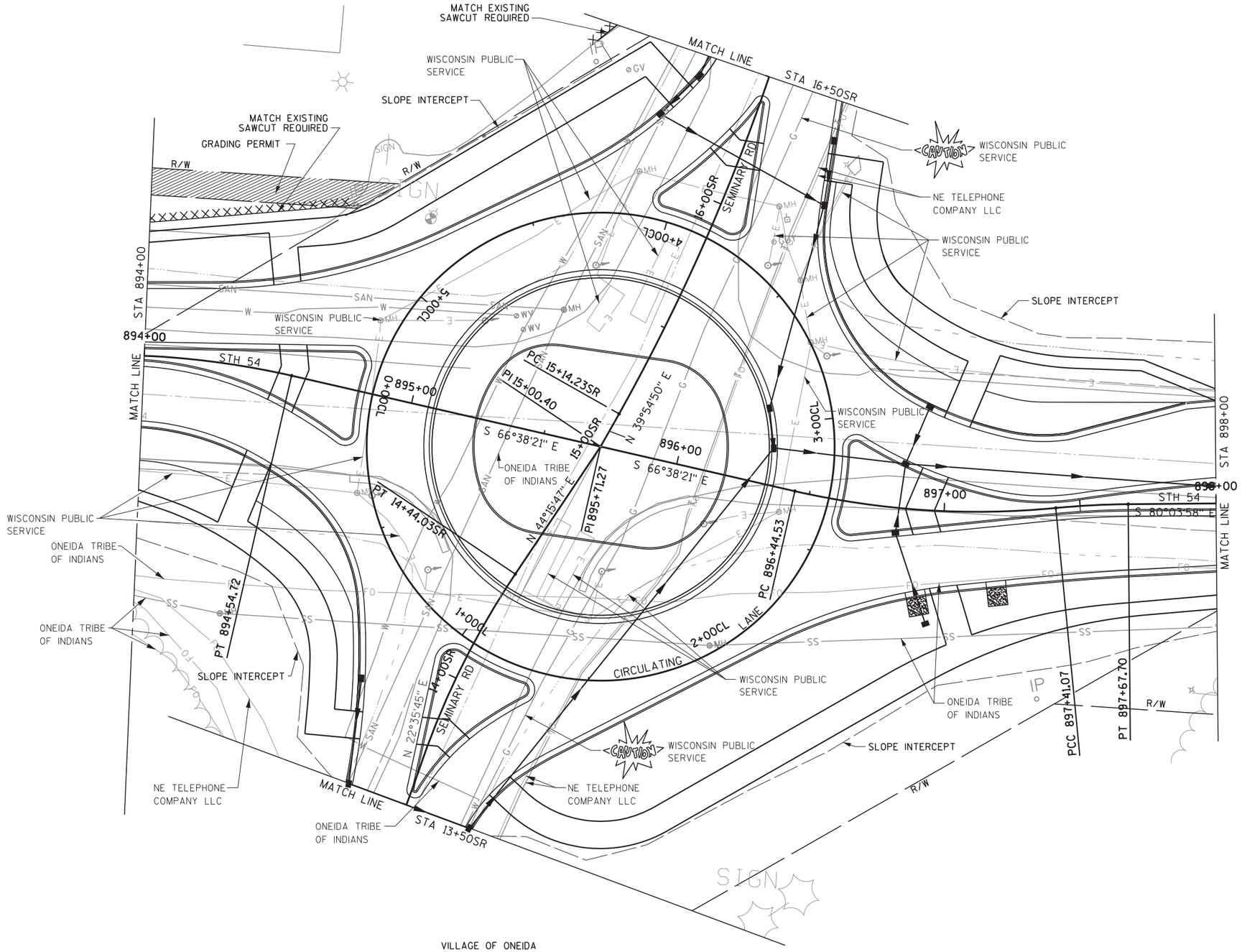
FILE NAME : 050101_pp.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 40.000000' / in.

WISDOT/CADDS SHEET 30





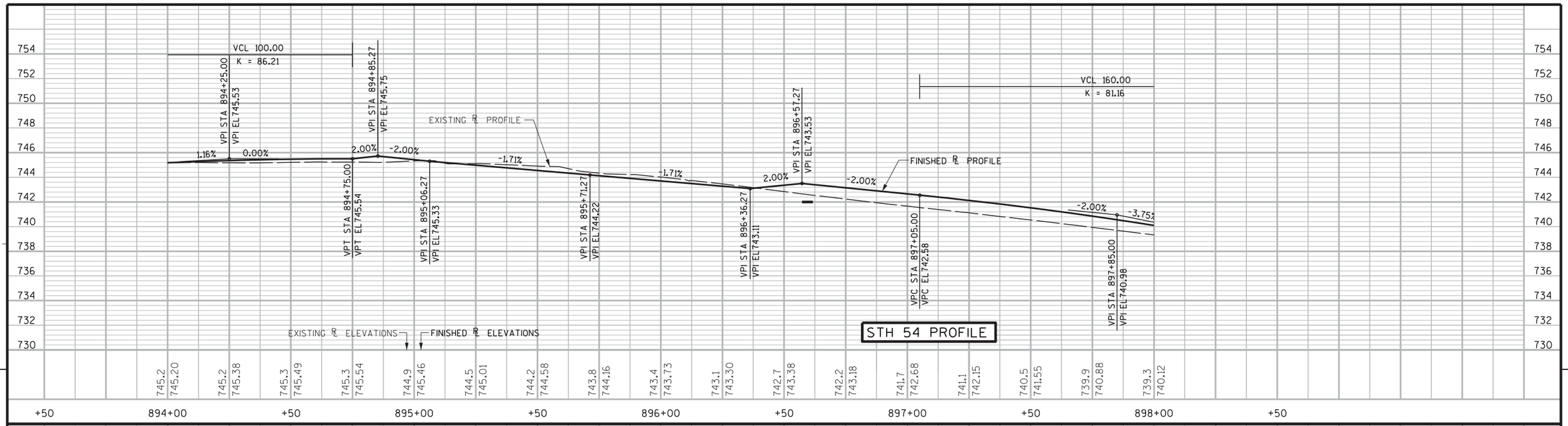
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN AND PROFILE - STH 54	SHEET 200	E

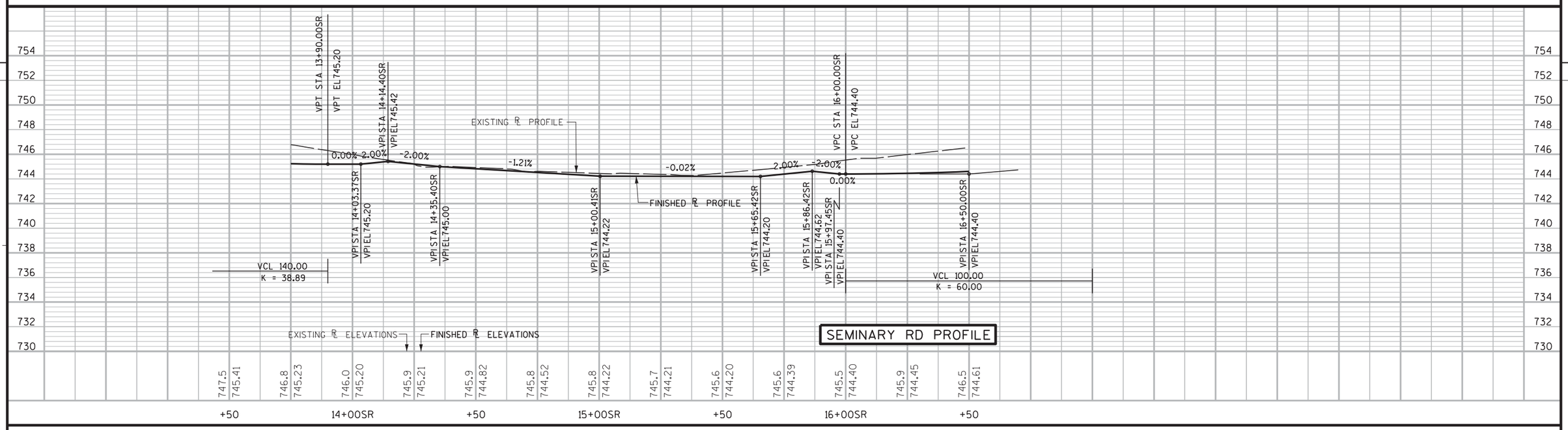


VILLAGE OF ONEIDA

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN - STH 54	SHEET 201	E

FILE NAME : 050103_pp.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 40.000000' / in. WISDOT/CADDS SHEET





PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PROFILES - STH 54	SHEET 202	E

FILE NAME : 050104_pp.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 40.000000' / in. WISDOT/CADDS SHEET

898+50 LT, 36' 18-INCH CMCP, 2 AEW'S UNDER DRIVEWAY

STA 898+50, LT CONSTRUCT 10' PE

SLOPE INTERCEPT

WISCONSIN PUBLIC SERVICE

PC 899+70.84

ONEIDA TRIBE OF INDIANS

WISCONSIN PUBLIC SERVICE

SLOPE INTERCEPT

PT 901+13.30

PC 901+92.07

PT 903+02.00

SLOPE INTERCEPT

R/W

R/W

N

STA 898+00

STA 904+00

MATCH LINE

MATCH LINE

STH 54

898+00

899+00

900+00

901+00

902+00

903+00

894+00

904+00

S 80°03'58" E

S 74°37'29" E

S 75°53'04" E

STH 54

STH 54

ONEIDA TRIBE OF INDIANS

ONEIDA TRIBE OF INDIANS

VILLAGE OF ONEIDA

SLOPE INTERCEPT

ONEIDA TRIBE OF INDIANS

5

5

744
742
740
738
736
734
732
730
728
726
724
722
720
718
716
714

-2.00%

-3.75%

VPI STA 897+85.00
VPI EL740.98

VPT STA 898+65.00
VPT EL737.81

EXISTING ℄ PROFILE

-3.75%

VCL 160.00
K = 81.16

FINISHED ℄ PROFILE

VPI STA 901+00.00
VPI EL 720.21

FINISHED LT DITCH PROFILE

-10.32%

VPI STA 902+00.00
VPI EL 724.10

VPI STA 902+50.00
VPI EL722.22

-4.03%

VPI STA 903+00.00
VPI EL720.21

-9.39%

FINISHED RT DITCH PROFILE

VPI STA 903+50.00
VPI EL715.51

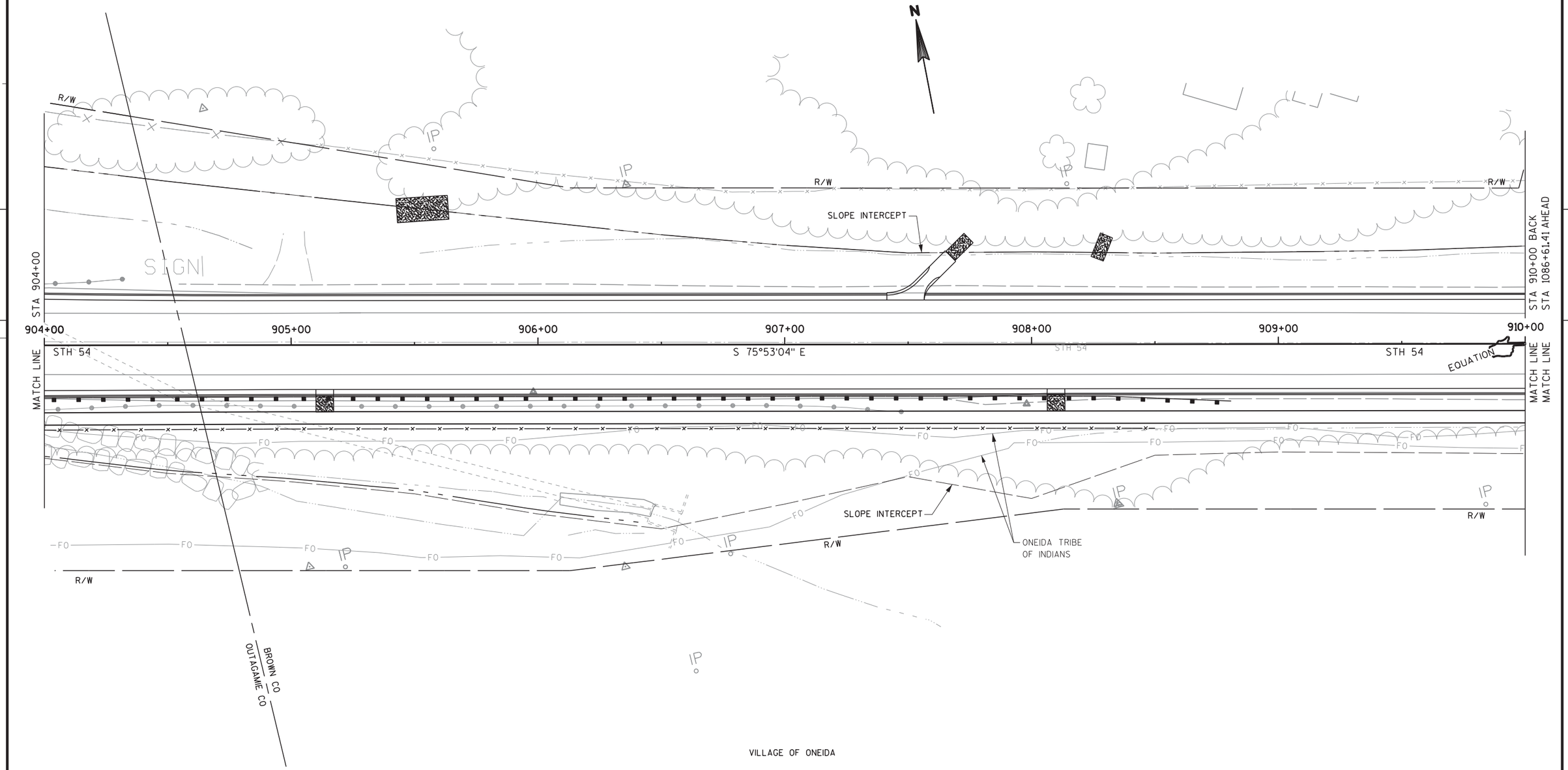
-3.75%

-9.88%

EXISTING ℄ ELEVATIONS

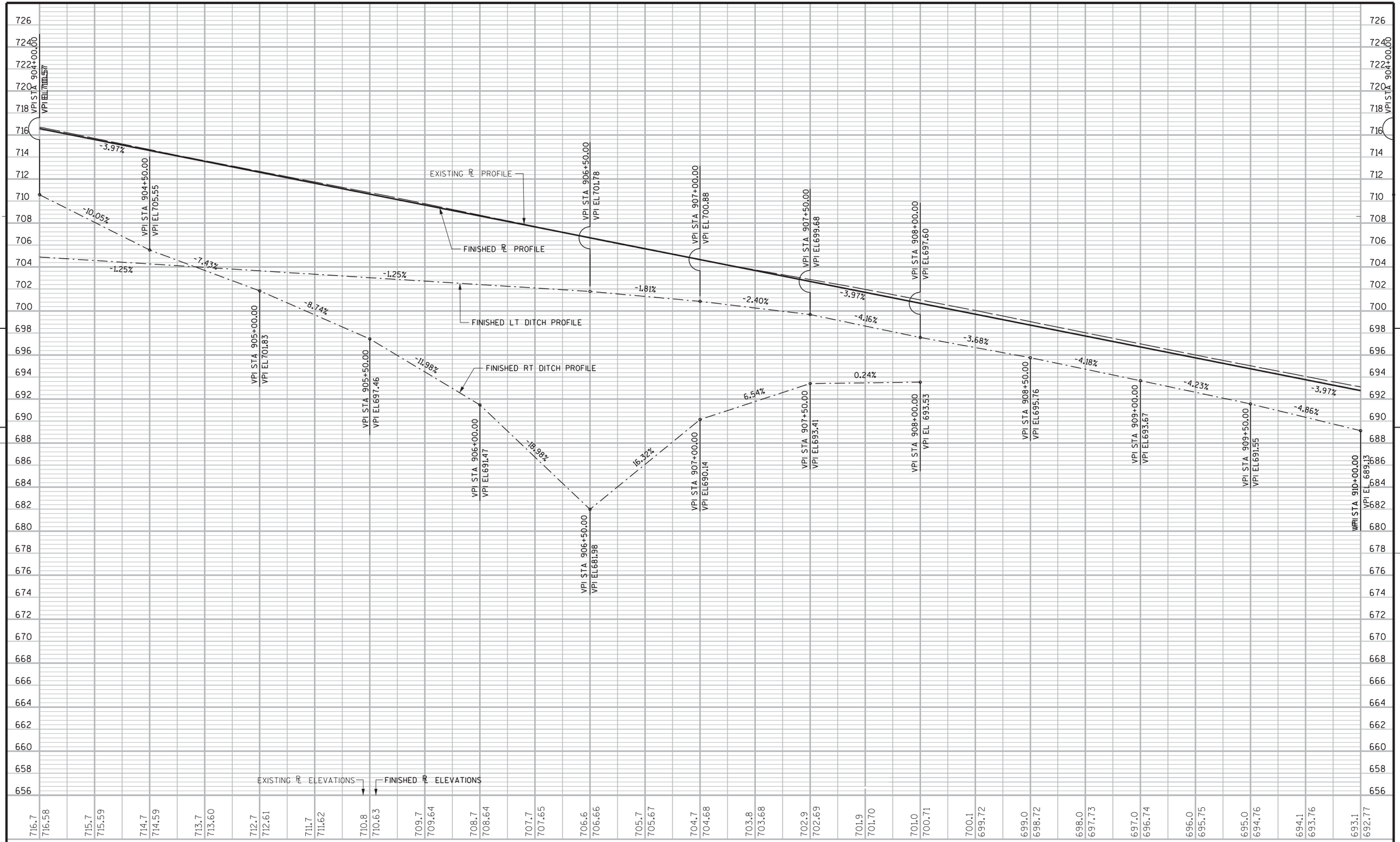
FINISHED ℄ ELEVATIONS

| | | |



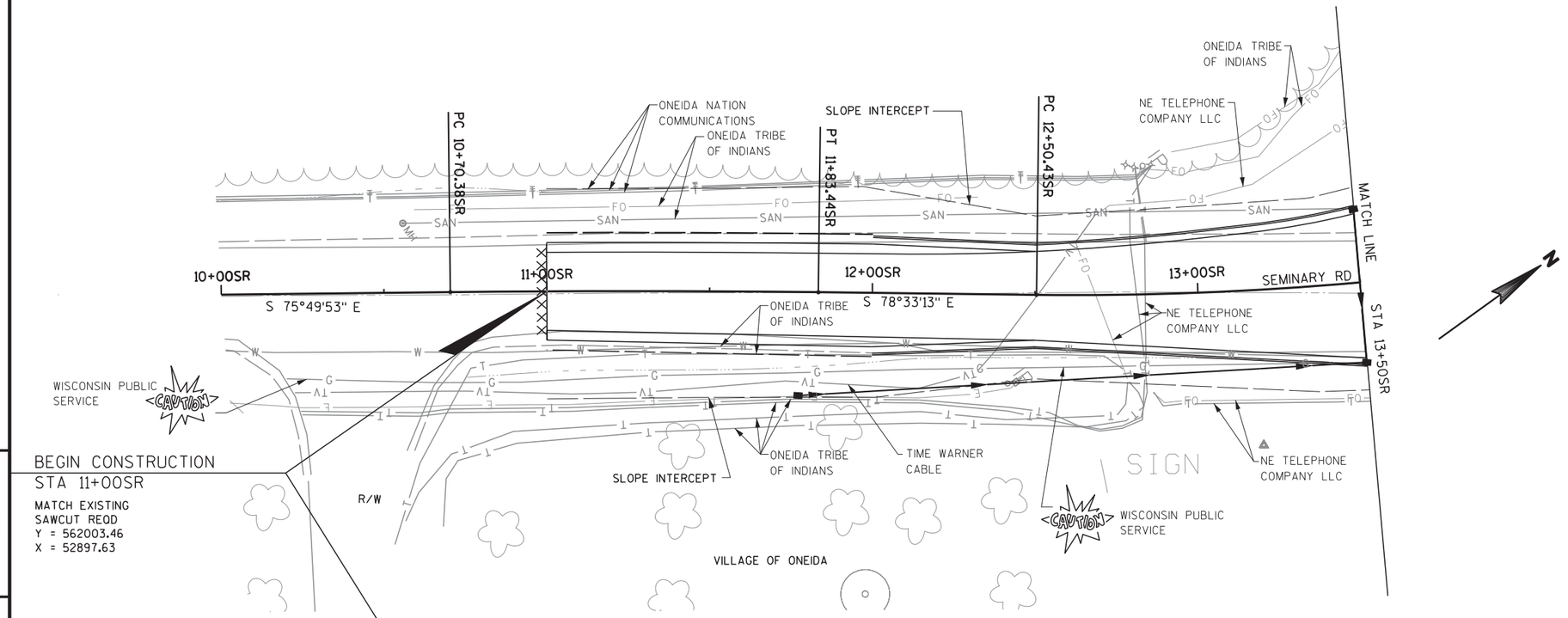
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN - STH 54	SHEET 204	E

FILE NAME : 050106_pp.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 40.000000' / in. WISDOT/CADDS SHEET



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PROFILES - STH 54	SHEET	E

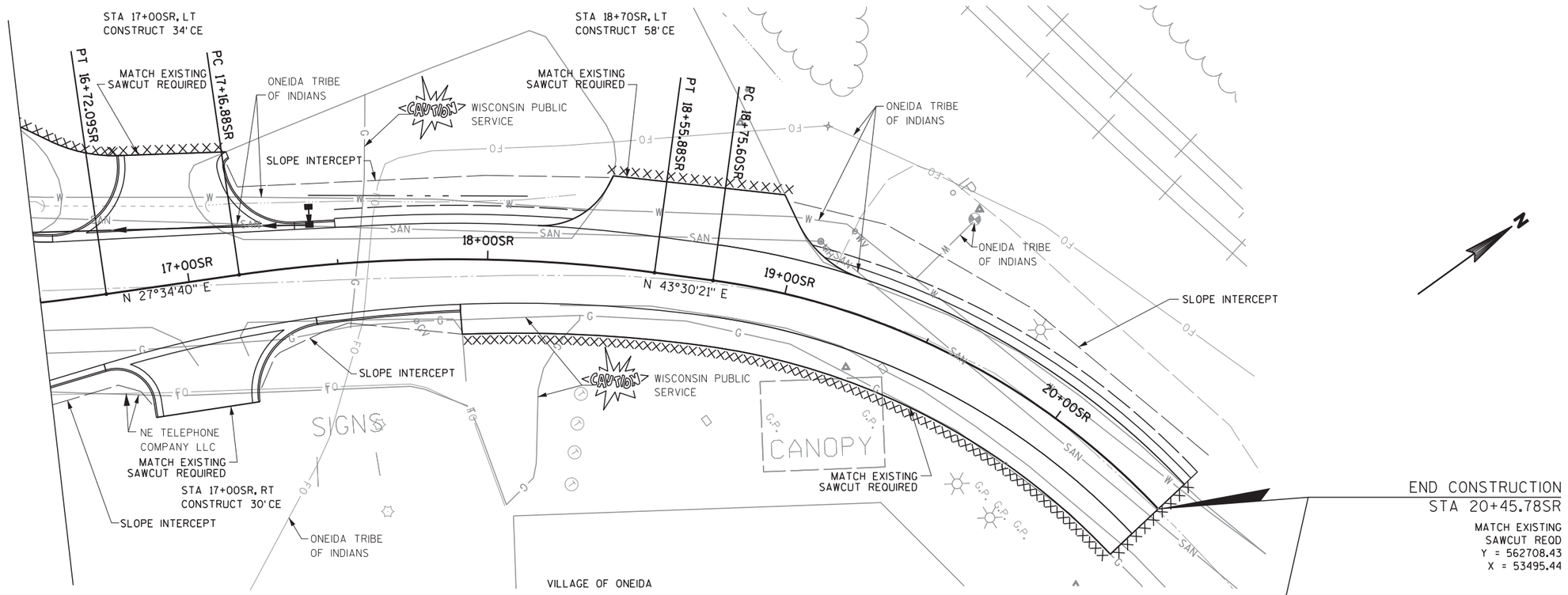
FILE NAME : 050107pp.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 40.000000' / in. WISDOT/CADDS SHEET



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN AND PROFILE - SEMINARY RD	SHEET 206	E

FILE NAME : 050108_pp.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 40.000000' / in.

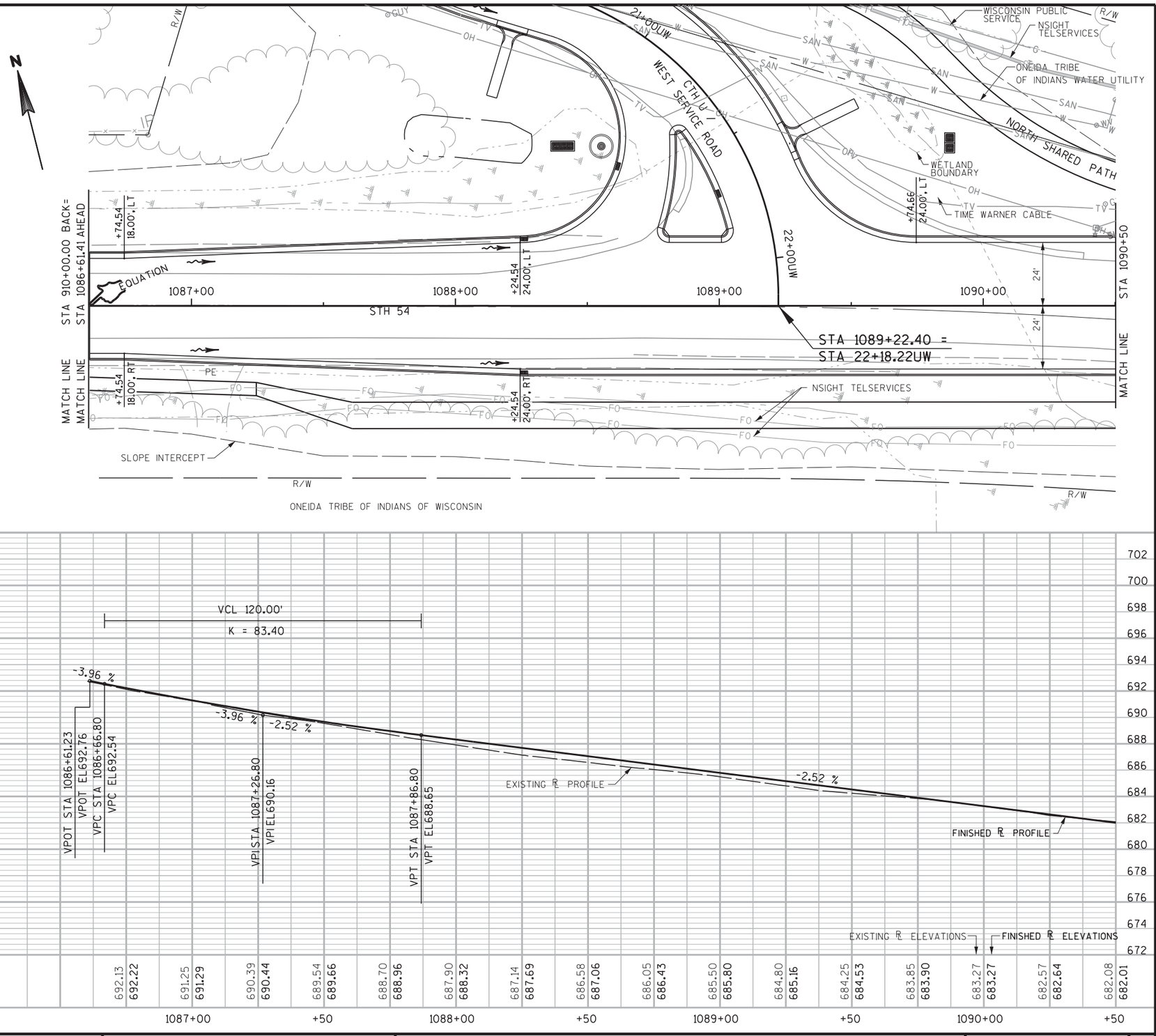
WISDOT/CADDS SHEET 30



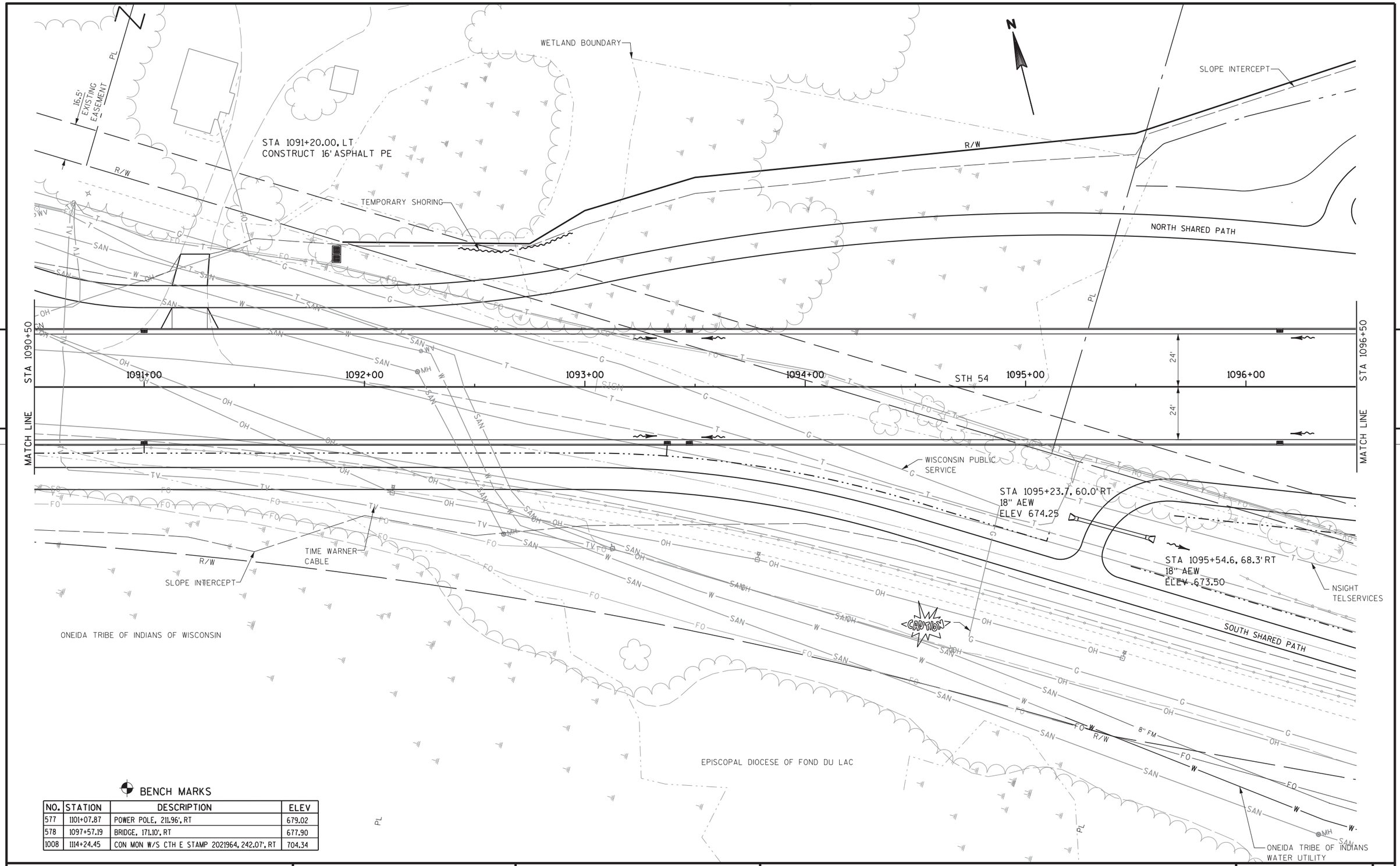
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN AND PROFILE - SEMINARY RD	SHEET 207	E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV
577	1101+07.87	NAIL IN POWER POLE, 211.96', RT	679.02
578	1097+57.19	-BRIDGE, 171.10', RT	677.90
1008	1114+24.45	CON MON W/S CTH E STAMP 2021964, 242.07', RT	704.34



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN AND PROFILE	SHEET 208	E



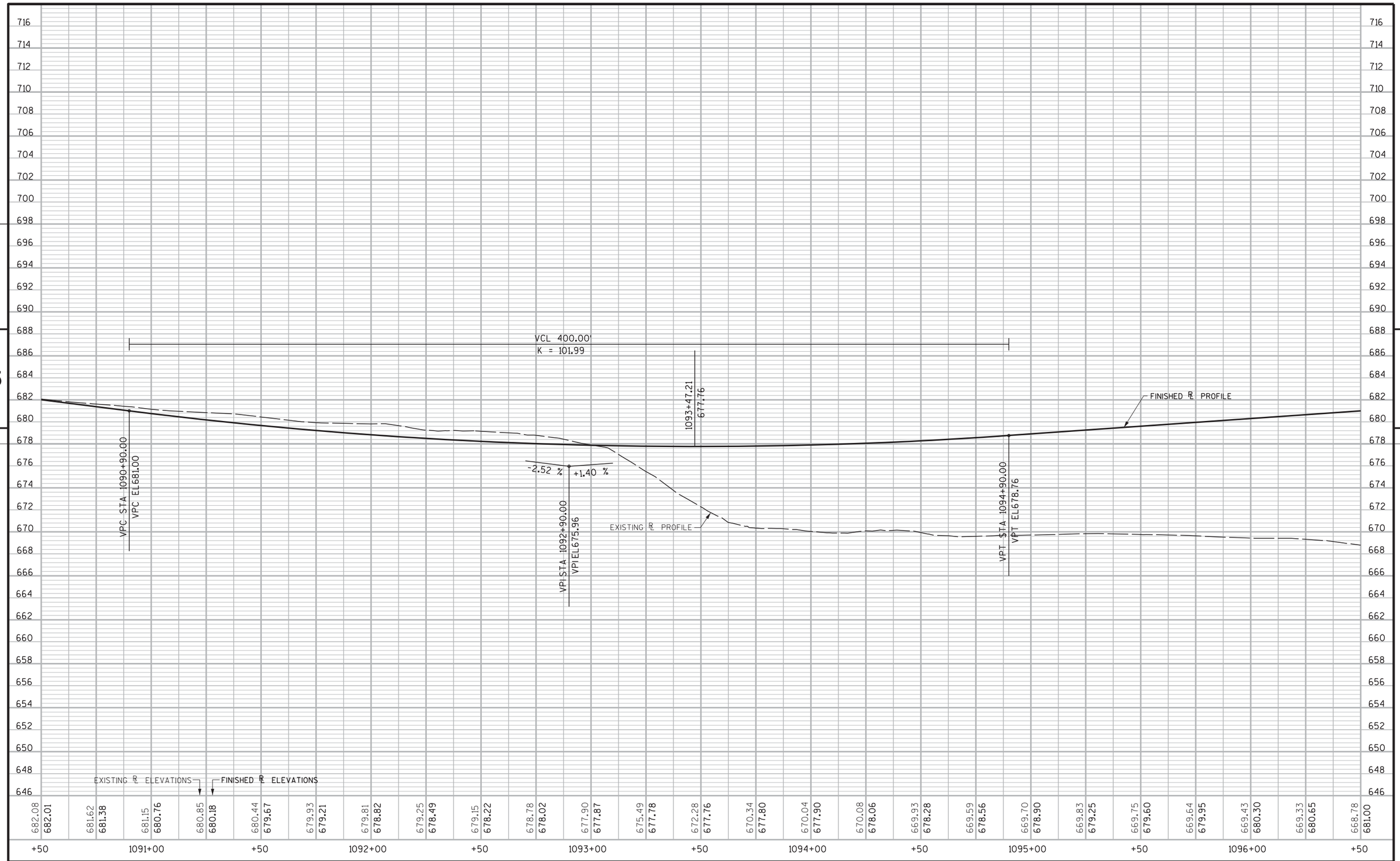
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV
577	1101+07.87	POWER POLE, 211.96', RT	679.02
578	1097+57.19	BRIDGE, 171.10', RT	677.90
1008	1114+24.45	CON MON W/S CTH E STAMP 2021964, 242.07', RT	704.34

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN	SHEET 209	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\050107_pp.dgn PLOT DATE : 1/6/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.000000 ' / in.

WISDOT/CADDS SHEET 30



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGANIE/BROWN	PROFILE	SHEET 210	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\050108_pp.dgn PLOT DATE : 1/6/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.000000 ' / in.

WISDOT/CADDS SHEET 30

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV
577	1101+07.87	POWER POLE, 211.96', RT	679.02
578	1097+57.19	BRIDGE, 171.10', RT	677.90
1008	1114+24.45	CON MON W/S CTH E STAMP 2021964, 242.07', RT	704.34

PIPE UNDERDRAIN CONNECTED TO UNDERDRAIN FROM THE BRIDGE ABUTMENT

STA 1101+28.6, 192.1' LT
18" AEW, ELEV. 675.04

STA 1101+64.9, 77.1' LT
18" AEW,
ELEV. 675.95

STA 1101+54.46 STH 54 =
STA 43+60.00 ARTLEY ST

MATCH LINE STA 1096+50

MATCH LINE STA 1102+50

PC 1096+32.08

PT 1098+99.93

PC 1102+60.04SP

42+00AS

43+00AS

36.41SP

1097+00 1098+00 1099+00 1100+00 1101+00 1102+00

STH 54

ARTLEY STREET

DUCK CREEK

SLOPE INTERCEPT

CONCRETE SIDEWALK 4-INCH UNDER STRUCTURE

STRUCTURE B-05-392

NORTH SHARED PATH

SOUTH SHARED PATH

CONCRETE PAVEMENT APPROACH SLAB

STBSA

WETLAND BOUNDARY

EXISTING STRUCTURE B-5-728

SWING GATE

BM 578

BM 577

WISCONSIN PUBLIC SERVICE

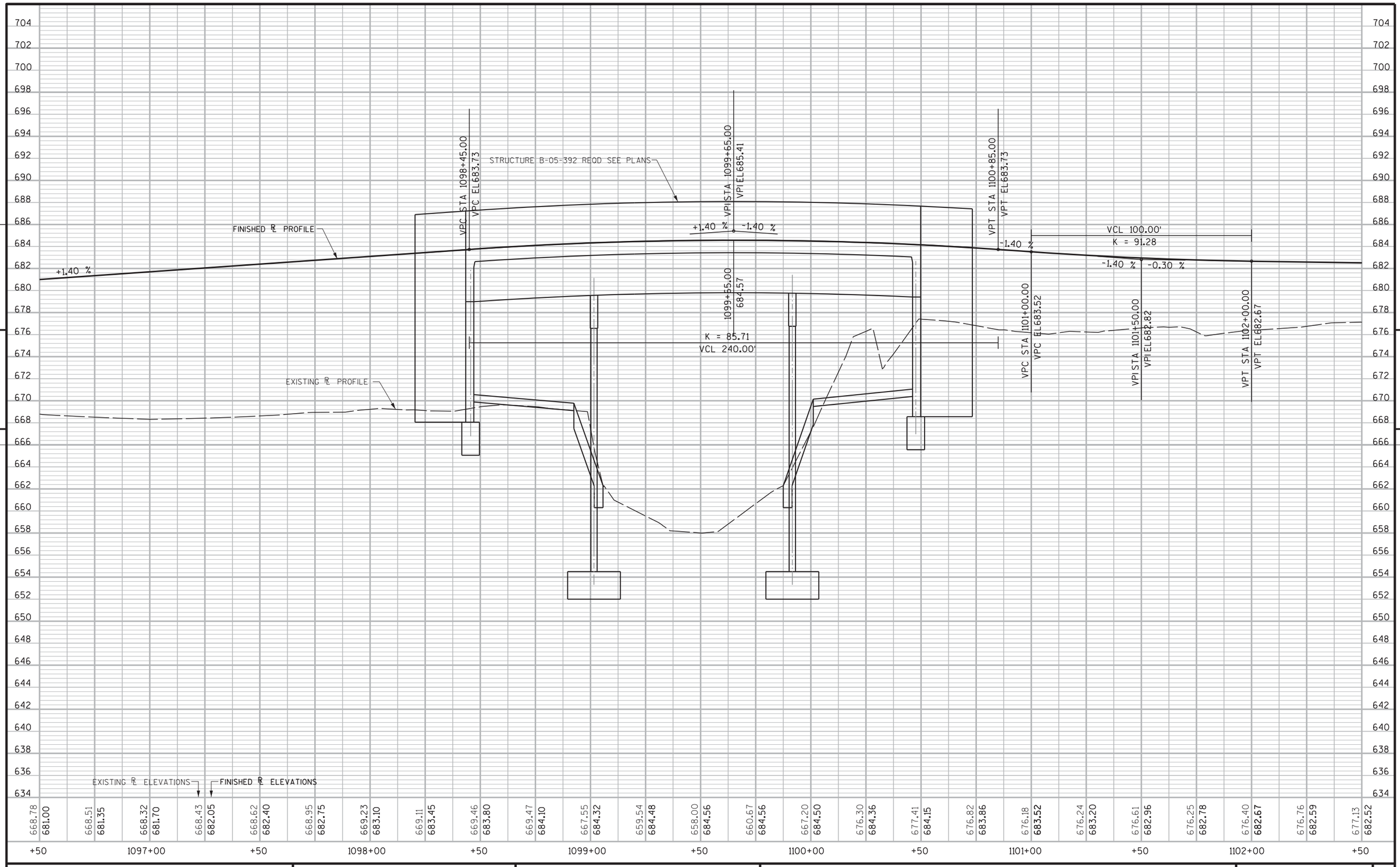
ONEIDA TRIBE OF INDIANS WATER UTILITY

NSIGHT TELSERVICES

40' UTILITY EASEMENT

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN	SHEET E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\050109_pp.dgn PLOT DATE : 1/6/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.000263 ' / in.
WISDOT/CADDS SHEET 30


STRUCTURE B-05-392 REOD SEE PLANS
FINISHED ℄ PROFILE
EXISTING ℄ PROFILE
VPC STA 1098+45.00
VPC EL683.73
VPI STA 1099+65.00
VPI EL685.41
1099+55.00
684.57
VPT STA 1100+85.00
VPT EL683.73
VPC STA 1101+00.00
VPC EL683.52
VPI STA 1101+50.00
VPI EL682.82
VPT STA 1102+00.00
VPT EL682.67
+1.40 %
-1.40 %
-1.40 %
-1.40 %
-0.30 %
K = 85.71
VCL 240.00'
VCL 100.00'
K = 91.28
EXISTING ℄ ELEVATIONS
FINISHED ℄ ELEVATIONS
704
702
700
698
696
694
692
690
688
686
684
682
680
678
676
674
672
670
668
666
664
662
660
658
656
654
652
650
648
646
644
642
640
638
636
634

| | | |

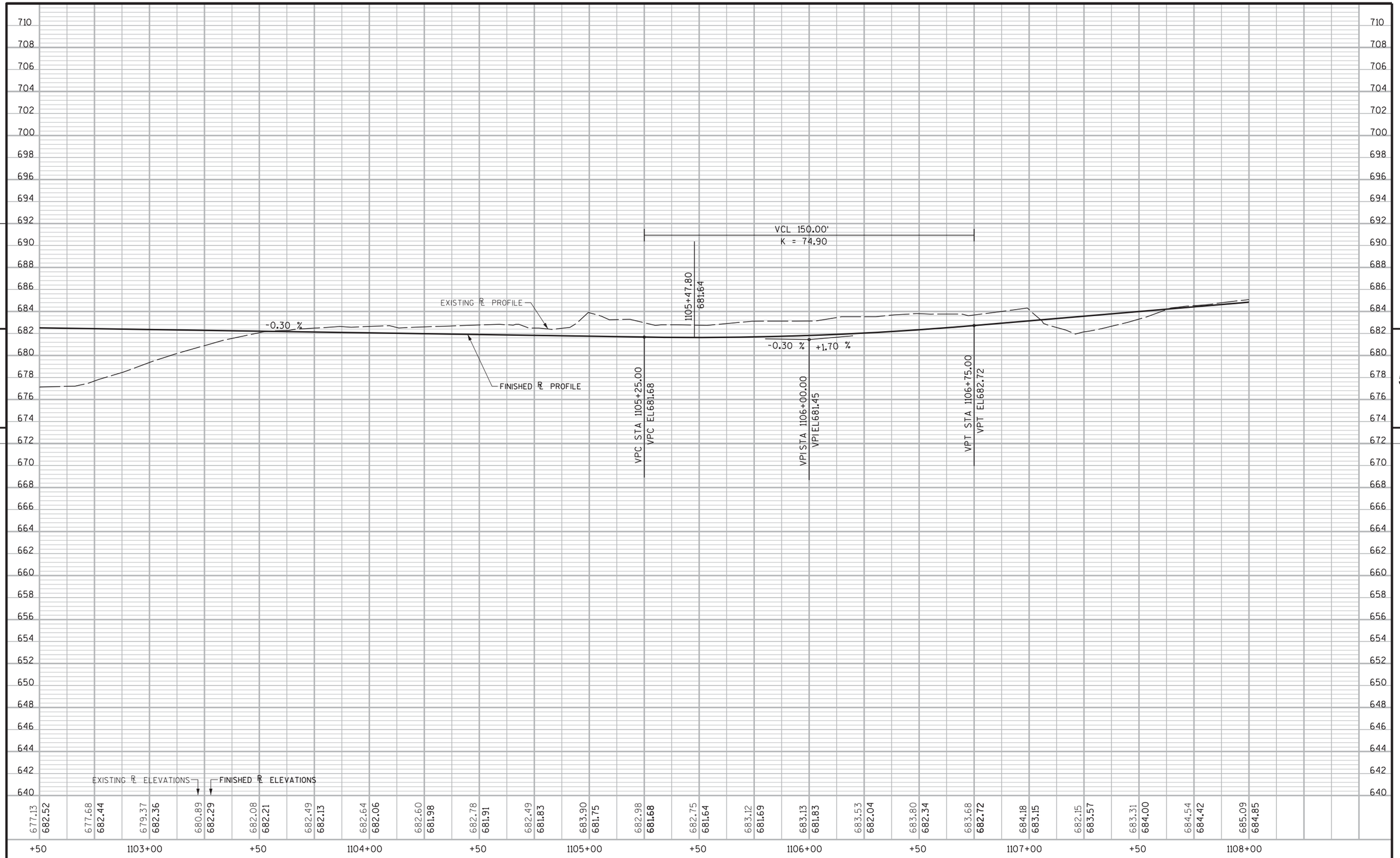
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV
577	1101+07.87	POWER POLE, 211.96', RT	679.02
578	1097+57.19	BRIDGE, 171.10', RT	677.90
1008	1114+24.45	CON MON W/S CTH E STAMP 2021964, 242.07', RT	704.34

WETLAND BOUNDARY
STA 1102+50
MATCH LINE
STH 54
1103+00
EAST SHARED PATH
10'
TLE
+54.00 DROP CURB HEAD
+88.00 DROP CURB HEAD
24'
24'
R/W
PC 1104+84.36
1104+00
20+00UE
1105+00
RUINS
SIGN
PL
STA 1104+06.76 STH 54=
STA 20+00.00 CTH U
1106+00
1107+00
SLOPE INTERCEPT
OH
SAN
T
TV
MATCH LINE
STA 1108+00
1108
16'
21+00UE
STA 1104+84.1, 57.9' RT
15" AEW
ELEV 677.00
STA 1104+94.0, 84.6' RT
15" AEW
ELEV 677.00
DETENTION BASIN LOCATION
STA 1106+04.7, 52.0' RT
18" AEW
ELEV 678.00
STA 1106+31.8, 46.7' RT
18" AEW
ELEV 678.00
STA 1107+75.00, RT
CONSTRUCT
16' ASPHALT PE
SOUTH SHARED PATH
10'
SLOPE INTERCEPT
WISCONSIN PUBLIC SERVICE
TIME WARNER CABLE
NSIGHT TELSERVICES
22+00UE
CAUTION
WISCONSIN PUBLIC SERVICE
STA 22+85.00 CTH U=
STA 32+39.32 ELM ST
ONEIDA TRIBE OF INDIANS WATER UTILITY
REMOVE GUARDRAIL
PAUL F.& CHRISTINE S. DANFORTH
JANICE C. ADAMS
ESTATE OF SAMUEL ADAMS (JEFF REED)
23+00UE
CTH U
EAST SERVICE ROAD
16'
16'
24+00UE
32+00ES
ELM STREET
PI 1108+19.70
N

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN	SHEET 213	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\050111_pp.dgn
PLOT DATE : 1/6/2012
PLOT BY : 11721as
PLOT NAME :
PLOT SCALE : 40.000000 ' / in.
WISDOT/CADDS SHEET 30



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PROFILE	SHEET 214	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\050112_pp.dgn PLOT DATE : 1/6/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.000000 ' / in.

WISDOT/CADDS SHEET 30

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV
577	1101+07.87	POWER POLE, 211.96', RT	679.02
578	1097+57.19	BRIDGE, 171.10', RT	677.90
1008	1114+24.45	CON MON W/S CTH E STAMP 2021964, 242.07', RT	704.34

STA 1108+85.00, LT
CONSTRUCT 12' ASPHALT PE

STA 1109+90.00, LT
CONSTRUCT 14' ASPHALT PE

STA 1110+70.00, LT
CONSTRUCT 14' ASPHALT PE

STA 1112+00.00, LT
CONSTRUCT 16' ASPHALT PE

STA 1108+62.00, RT
CONSTRUCT 16' ASPHALT PE

JAMES B. HILL
ERNEST STEVEN, JR.
ONEIDA TRIBE OF INDIANS OF WISCONSIN
UTILITY EASEMENT
JEFFERSON AND DOROTHY CORNELIUS
NSIGHT TELSERVICES
SLOPE INTERCEPT
TIME WARNER CABLE
MATCH LINE
STH 54
PT 1111+00.74
PI 1112+00.00
PI 1112+97.91
ONEIDA TRIBE OF INDIANS WATER UTILITY
SIGN +74.10 35', RT
+39.44 45', RT
WISCONSIN PUBLIC SERVICE
TEMP SHORING
R-05-102 RETAINING WALLS
FENCE REMOVED BY OTHERS
+47.91 24.0', LT
+47.91 24.0', RT
+86.55 45.36', RT
+100.82 35.41', RT
REPLACE C&G TO 1113+50 RT
JOSEPHINE H. WEBSTER
KENNETH W. AND PEARL B. WEBSTER
MARILYN DANFORTH
CAUTION

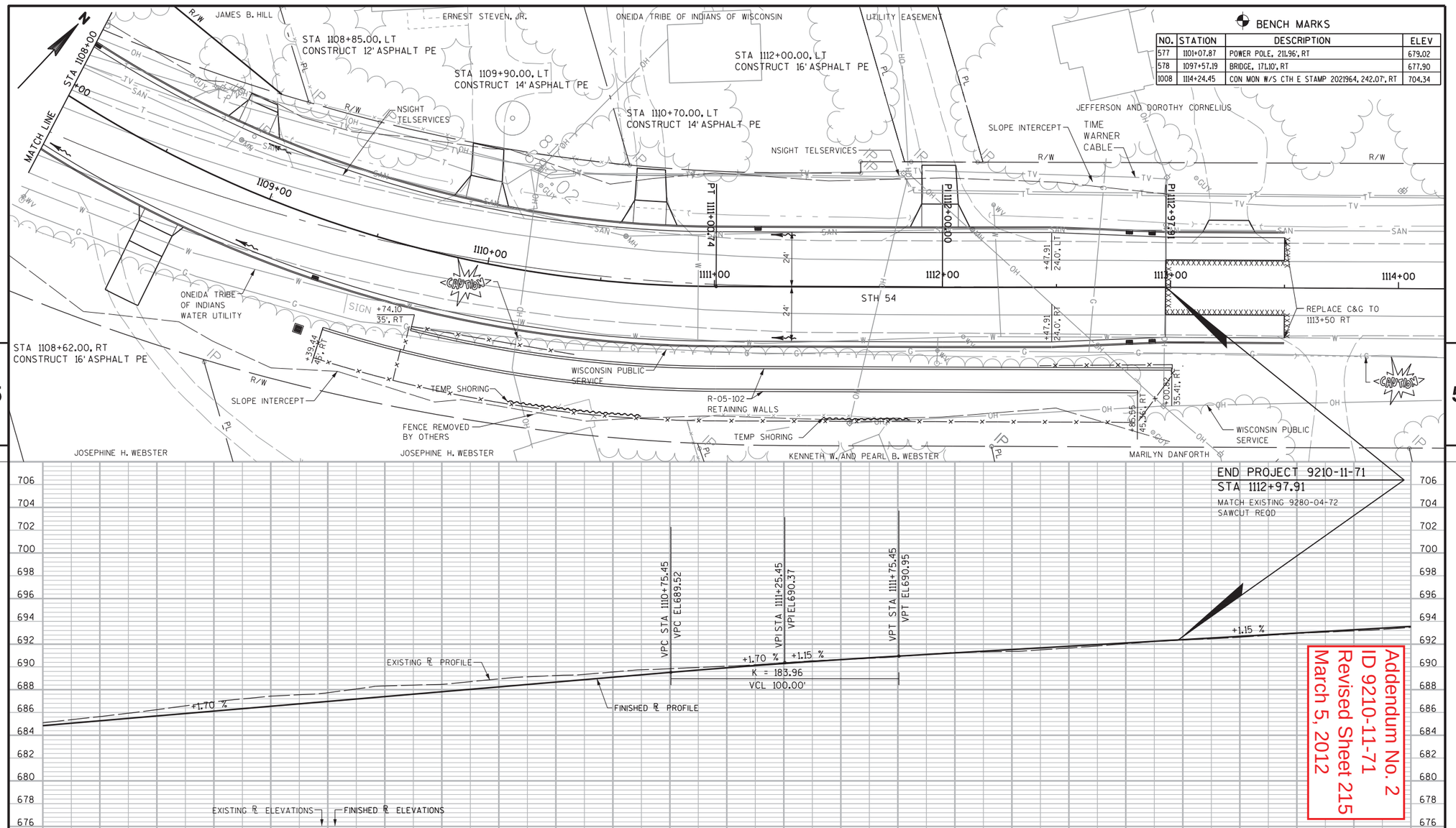
END PROJECT 9210-11-71
STA 1112+97.91
MATCH EXISTING 9280-04-72 SAWCUT REQD

VPC STA 1110+75.45
VPC EL689.52
VPI STA 1111+25.45
VPI EL690.37
VPT STA 1111+75.45
VPT EL690.95
+1.70 %
+1.15 %
K = 183.96
VCL 100.00'
EXISTING ℄ PROFILE
FINISHED ℄ PROFILE
EXISTING ℄ ELEVATIONS
FINISHED ℄ ELEVATIONS

1108+00	+50	1109+00	+50	1110+00	+50	1111+00	+50	1112+00	+50	1113+00	+50	1114+00
685.09 / 684.85	685.84 / 685.27	686.26 / 685.70	686.92 / 686.12	687.43 / 686.55	687.73 / 686.97	688.33 / 687.39	688.47 / 687.82	688.95 / 688.24	689.25 / 688.67	689.55 / 689.09	689.85 / 689.52	690.07 / 689.93
690.36 / 690.30	690.64 / 690.64	690.91 / 690.95	691.26 / 691.23	691.35 / 691.52	691.66 / 691.81	692.04 / 692.10	692.36 / 692.39	692.61 / 692.68	692.93 / 692.97	693.16 / 693.26	693.47 / 693.54	

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN AND PROFILE	SHEET E

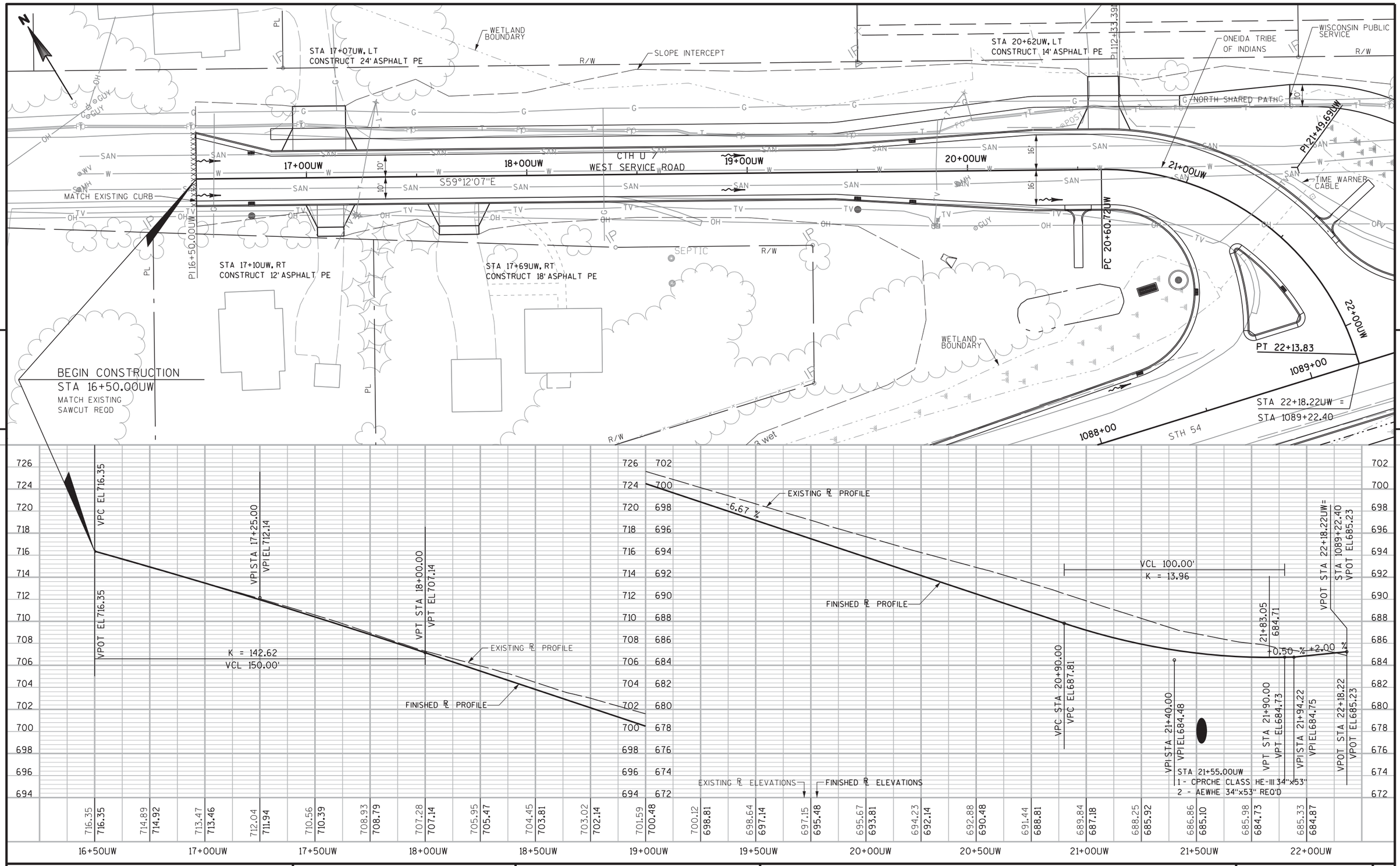
FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\050113_pp.dgn
PLOT DATE : 1/6/2012
PLOT BY : 11721as
PLOT NAME :
PLOT SCALE : 40.000000 ' / in.
WISDOT/CADDS SHEET 30



PROJECT NO: 9210-11-71 | HWY: STH 54 | COUNTY: OUTAGAMIE/BROWN | PLAN AND PROFILE | SHEET 215 A | E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\050113_pp.dgn PLOT DATE : 2/20/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.000000 ' / in.

WISDOT/CADDS SHEET 30



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	PLAN AND PROFILE - CTH U / WEST SERVICE ROAD	SHEET 216	E

STA 1104+06.76 =
STA 20+00UE

PI 20+00.00

1104+00

20+00UE

S29°02'23"W

1103+00

STH 54

WETLAND
BOUNDARY

+64.00
16.00RT

+69.02
19.00RT

SLOPE INTERCEPT

NSIGHT
TELSERVICES

21+00UE

RUINS

+66.26
26.65LT

PC 20+58.02UE

+28.88
24.36LT

+62.91
21.86LT

+21.86
16.00LT

PT 22+53.70

16.00LT

22+00UE

213+00SP

214+00SP

SOUTH SHARED PATH

PI 21+84.75UE

CAUTION
WISCONSIN PUBLIC
SERVICE

STA 23+16.90UE, LT
CONSTRUCT 24'PE

ONEIDA TRIBE
OF INDIANS

+16.00
16.00LT

24+00UE

S58°53'07"E

23+00UE

CTH U / EAST SERVICE ROAD

+75.00
16.00RT

END CONSTRUCTION
STA 24+00.00UE
MATCH EXISTING
SAWCUT REQD

STA 22+85UE =
STA 32+39.32ES

ELM STREET

32+00SP

VCL 100.00'
K = 22.85

EXISTING ℄ PROFILE

-2.00 %

+2.38 %

+0.63 %

FINISHED ℄ PROFILE

K = 57.35
VCL 100.00'

VPOT STA 20+00.00UE=
STA 1104+06.76
VPOT EL682.04

VPI STA 20+24.00UE
VPI EL681.56

VPC STA 20+25.00UE
VPC EL681.54

20+70.69UE
681.08

VPI STA 20+75.00UE
VPI EL680.54

VPT STA 21+25.00UE
VPT EL681.73

VPC STA 22+00.00UE
VPC EL683.51

VPI STA 22+50.00UE
VPI EL684.70

VPT STA 23+00.00UE
VPT EL685.02

VPOT STA 24+00.00UE
VPOT EL685.65

EXISTING ℄ ELEVATIONS

FINISHED ℄ ELEVATIONS

| | | |

BEGIN CONSTRUCTION
STA 30+00.00
MATCH EXISTING
SAWCUT REQD

30+00ES
N59°37'47"W
PC 30+39.34ES
PT 30+68.65ES
31+00ES
ELM STREET
32+00ES
N31°06'53"E
15'
15'
SLOPE INTERCEPTS
R/W
PL
SS
INLET
SIGN
SAN
W
PT 30+73.98ES
SLOPE INTERCEPTS
R/W
SOUTH SHARED PATH
24+00SP
22+00UE
CAUTION
23+00UE
CTH U / EAST SERVICE ROAD
PE
R/W
STA 32+39.32 ELM ST =
STA 22+85 CTH U / EAST
NSIGHT TELSERVICES
WISCONSIN PUBLIC SERVICE
ONEIDA TRIBE OF INDIANS
TIME WARNER CABLE
1105+00
STH 54
1106+00
SLOPE INTERCEPTS
R/W
TV
SAN
SIGN
G
W
MH
5
5
N

694
692
690
688
686
684
682
680
678
676
674
672
670
668
666
664

VPOT STA 30+00.00ES
VPOT EL681.40
VPC STA 30+32.50ES
VPC EL681.56
VPI STA 30+82.50ES
VPI EL681.82
VPT STA 31+32.50ES
VPT EL682.80
VPI STA 32+23.32ES
VPI EL684.58
VPOT STA 32+39.32ES=
22+85.00UE
VPOT EL684.90
+0.50 %
VCL 100.00'
K = 68.62
+1.96 %
+2.00 %
FINISHED ℄ PROFILE
EXISTING ℄ PROFILE
EXISTING ℄ ELEVATIONS
FINISHED ℄ ELEVATIONS

681.40	681.40			
681.46	681.53			
681.52	681.67			
681.01	681.91			
680.91	682.24			
681.07	682.65			
681.58	683.14			
681.61	683.63			
681.79	684.12			
684.50	684.61			

30+00ES 30+50ES 31+00ES 31+50ES 32+00ES 32+50ES

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN AND PROFILE - ELM STREET	SHEET 218 E

STA 40+04.80AS, LT
CONSTRUCT 33'CE

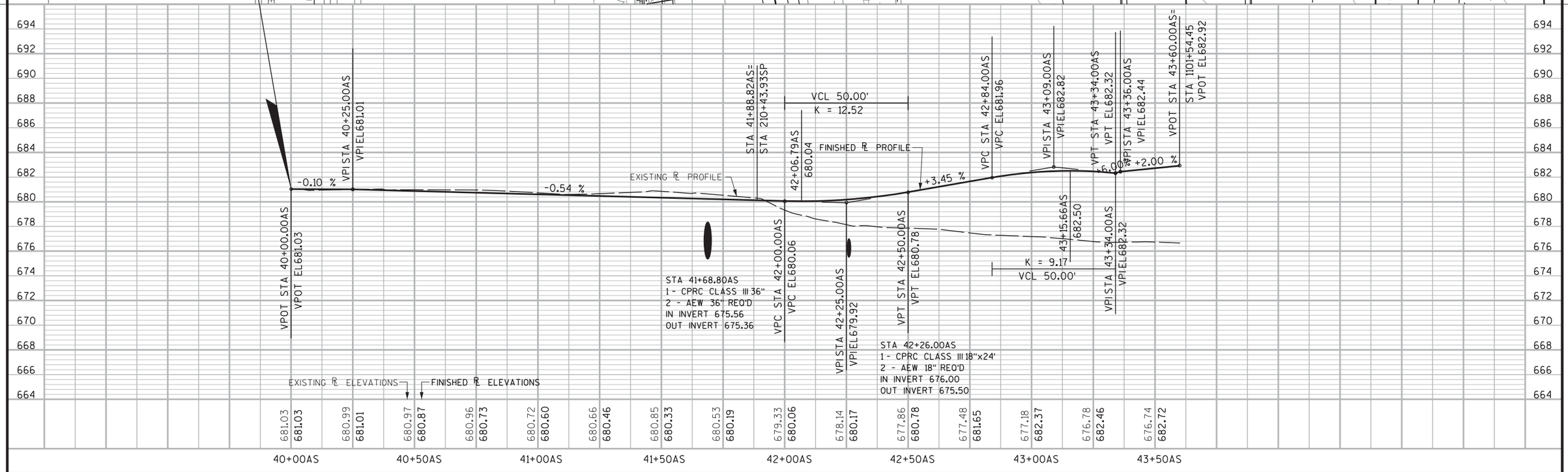
STA 41+68.80AS
1 - CPRC CLASS III 36"
2 - AEW 36" REQ'D
IN INVERT 675.56
OUT INVERT 675.36

STA 70+39.60RE
1 - CPRC CLASS III 18"x24'
2 - AEW 18" REQ'D

STA 42+26.00AS
1 - CPRC CLASS III 18"x24'
2 - AEW 18" REQ'D
IN INVERT 676.00
OUT INVERT 675.50

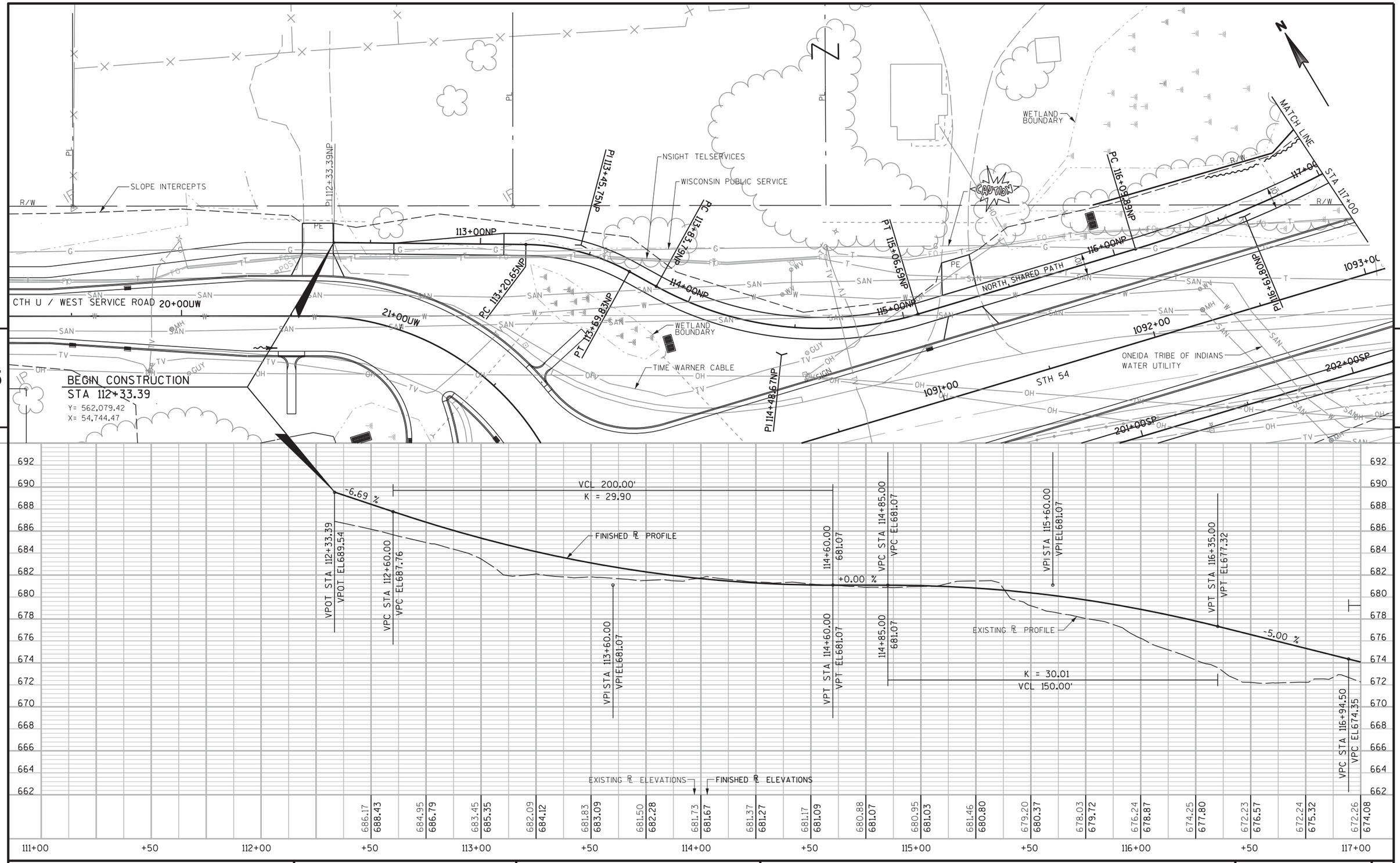
R/W
SLOPE INTERCEPTS
SOUTH SHARED PATH
210+00SP
211+00SP
STH 54
1101+00
1102+00
RIVER EAST SHARED PATH
ARTLEY STREET
40+00AS
41+00AS
42+00AS
43+00AS
SWING GATE
80'
40'
16'
12'
40+79.62 8.00LT
40+99.62 6.00LT
40+79.62 8.00RT
40+99.62 6.00RT
42+73.86 6.00LT
42+93.86 8.00LT
42+73.86 6.00RT
42+93.86 8.00RT
PC 210+60.04SP
SLOPE INTERCEPT
SLOPE INTERCEPT
BEGIN CONSTRUCTION
STA 40+00.00
ONEIDA TRIBE OF INDIANS
TIME WARNER CABLE
WETLAND BOUNDARY
NSIGHT TELESERVICES
ELM STREET
STA 41+88.83AS=
STA 210+43.93SP
PI 211+36.41SP
STA 43+60.00AS =
STA 1101+54.45

5



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN AND PROFILE - ARTLEY STREET	SHEET 219	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\050101_pp (Artley St.).dgn
PLOT DATE : 1/6/2012
PLOT BY : 11721as
PLOT NAME :
PLOT SCALE : 40.000052 ' / in.
WISDOT/CADDS SHEET 30



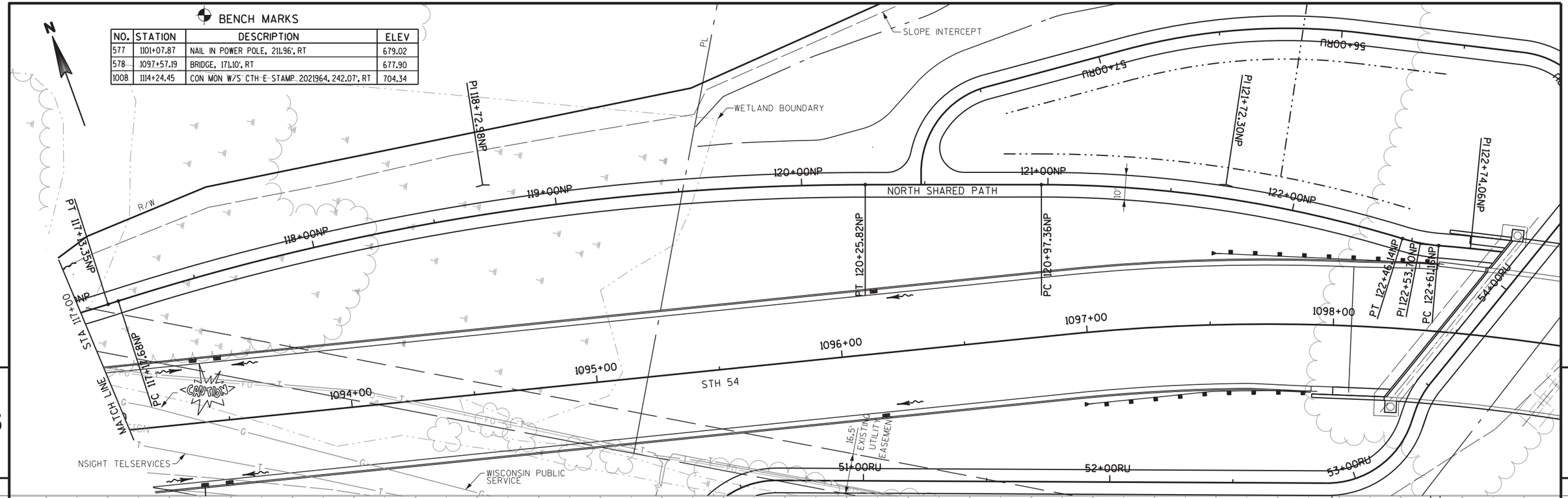
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN AND PROFILE - NORTH SHARED PATH	SHEET 220	E

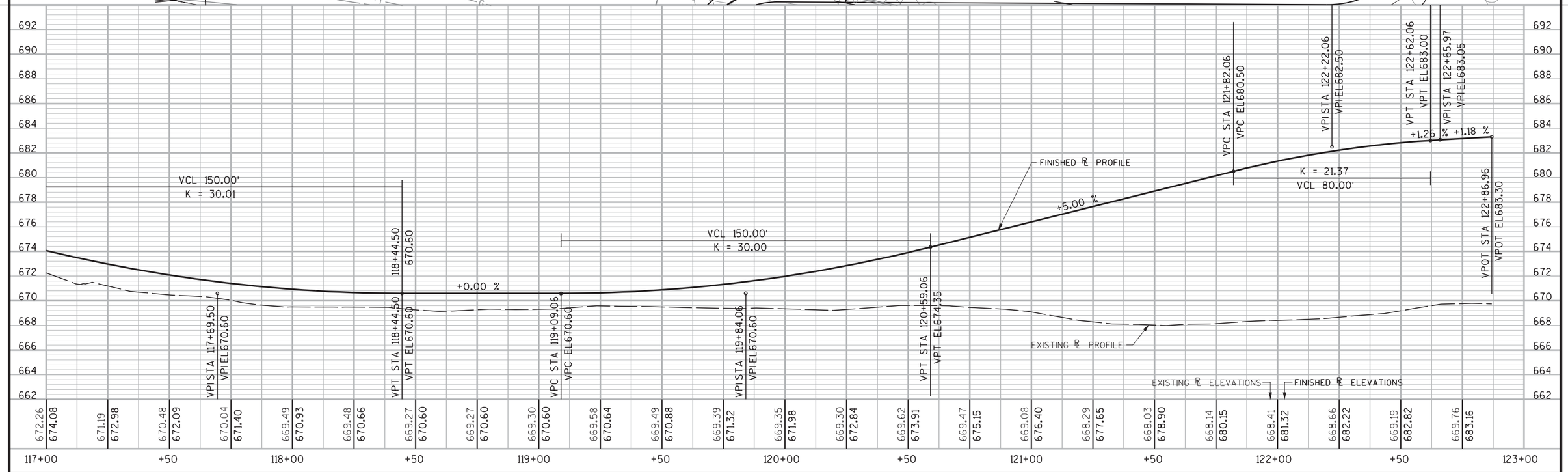
FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\050203_pp (N. Ped).dgn PLOT DATE : 1/6/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.000006 ' / in.

WISDOT/CADDS SHEET 30

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV
577	1101+07.87	NAIL IN POWER POLE, 211.96', RT	679.02
578	1097+57.19	BRIDGE, 171.10', RT	677.90
1008	1114+24.45	CON MON W/S CTH E STAMP 2021964, 242.07', RT	704.34





PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN AND PROFILE - NORTH SHARED PATH	SHEET 221	E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV
577	1101+07.87	NAIL IN POWER POLE, 211.96', RT	679.02
578	1097+57.19	BRIDGE, 171.10', RT	677.90
1008	1114+24.45	CON MON W/S CTH E STAMP 2021964, 242.07', RT	704.34

BEGIN CONSTRUCTION
STA 70+00.00RE =
STA 209+80.00SP

END CONSTRUCTION
STA 75+93.50RE

STA 70+39.60RE
1 - CPRC CLASS III 18"x24'
2 - AEW 18" REQ'D

STA 74+05.50RE, 32.8'LT
18" AEW
ELEV. 675.04

STA 74+99.30RE, 27.7'LT
18" AEW
ELEV. 675.95

STRUCTURE B-05-392

DUCK CREEK

ONEIDA TRIBE OF INDIANS

WISCONSIN PUBLIC SERVICE

INGRESS EGRESS EASEMENT

SOUTH SHARED PATH

RIVER EAST SHARED PATH

NSIGHT TELSERVICES

TIME WARNER CABLE

BM 577

SLOPE INTERCEPT

ARTLEY STREET

20' UTILITY EASEMENT

40' UTILITY EASEMENT

STH 54

WETLAND BOUNDARY

EXISTING ℄ ELEVATIONS

FINISHED ℄ ELEVATIONS

EXISTING ℄ PROFILE

FINISHED ℄ PROFILE

VPC STA 70+05.00 VPC EL679.55
VPI STA 70+30.00 VPI EL679.05
VPT STA 70+55.00 VPT EL677.23
VPOT STA 70+00.00 VPOT EL679.65
2.00 %
K = 9.44
VCL 50.00'
-7.30 %
VCL 50.00'
K = 6.85
VPC STA 71+16.67 VPC EL672.72
VPI STA 71+41.67 VPI EL670.90
VPT STA 71+66.67 VPT EL670.90
+0.00 %
VPI STA 72+99.53 VPI EL670.90
-0.25 %
VPC STA 73+49.53 VPC EL670.77
VCL 50.00'
K = 5.40
VPI STA 73+74.53 VPI EL670.71
VPT STA 73+99.53 VPT EL672.96
+9.00 %
VPC STA 74+49.53 VPC EL677.46
K = 13.12
VCL 100.00'
VPI STA 74+99.53 VPI EL681.96
+1.38 %
VPT STA 75+49.53 VPT EL682.65
VPI STA 75+62.92 VPI EL682.83
+1.38 %
VPOT STA 75+93.03 VPOT EL683.25

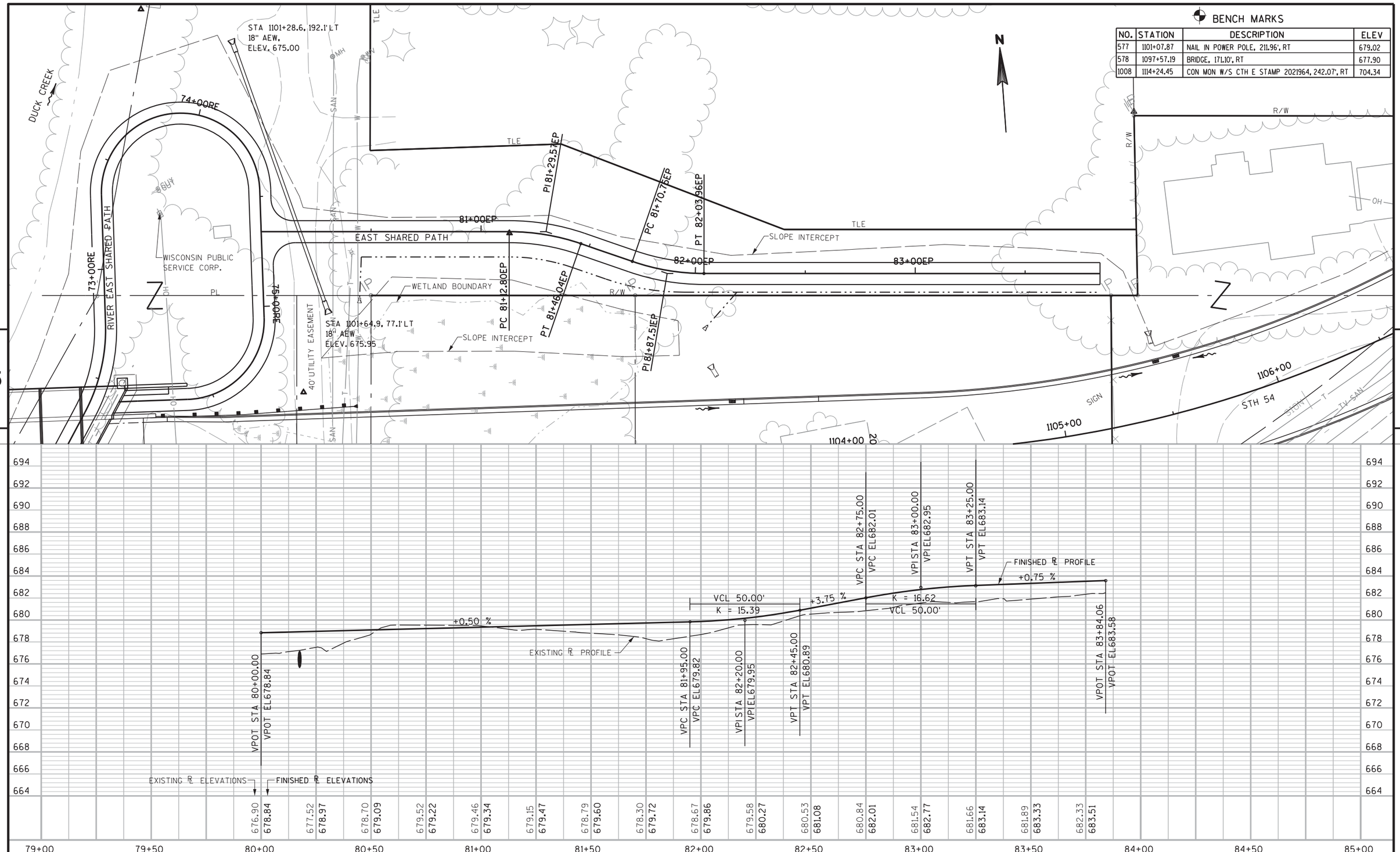
679.64	678.21	677.50	677.44	677.66	676.94	676.00	672.71	675.50	676.08	675.84	674.64	669.96	671.77	673.21	677.61	678.67	677.92	677.17	676.53	676.08	675.67	676.28	676.83
679.65	678.94	677.58	675.77	673.94	672.17	671.10	670.90	670.90	670.90	670.90	670.90	670.90	670.84	670.77	671.31	672.30	675.25	677.50	679.51	681.03	682.08	682.66	683.00

70+00 70+50 71+00 71+50 72+00 72+50 73+00 73+50 74+00 74+50 75+00 75+50 76+00

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN AND PROFILE - RIVER EAST SHARED PATH	SHEET 222 E

BENCH MARKS

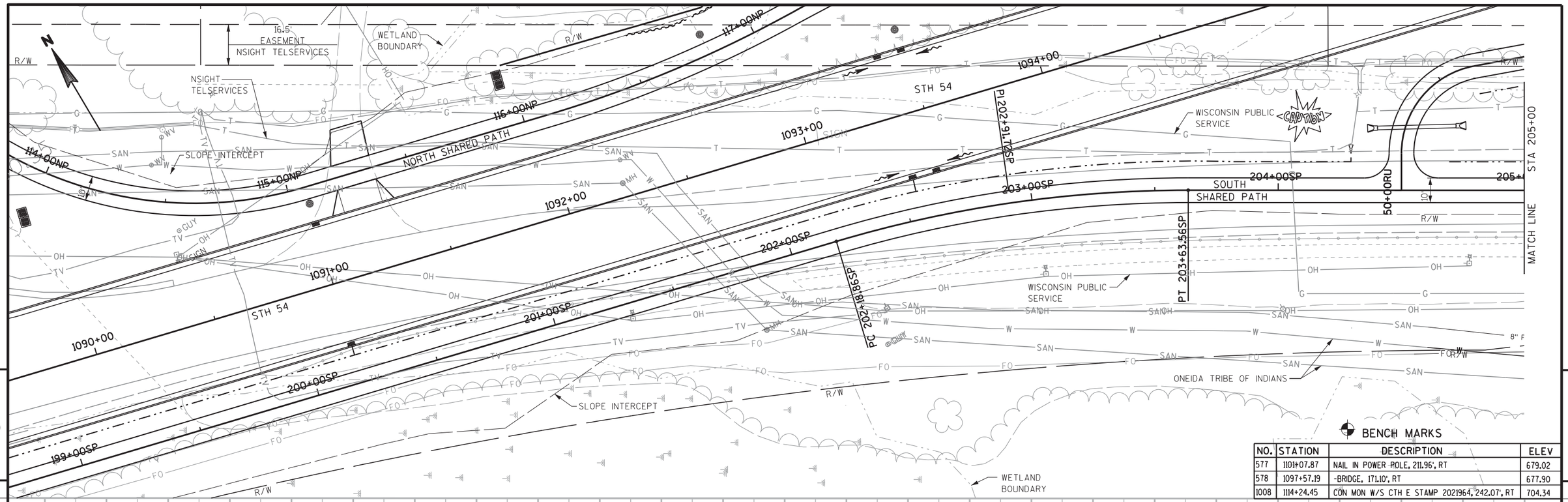
NO.	STATION	DESCRIPTION	ELEV
577	1101+07.87	NAIL IN POWER POLE, 211.96', RT	679.02
578	1097+57.19	BRIDGE, 171.10', RT	677.90
1008	1114+24.45	CON MON W/S CTH E STAMP 2021964, 242.07', RT	704.34



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN AND PROFILE - EAST SHARED PATH	SHEET 223 E

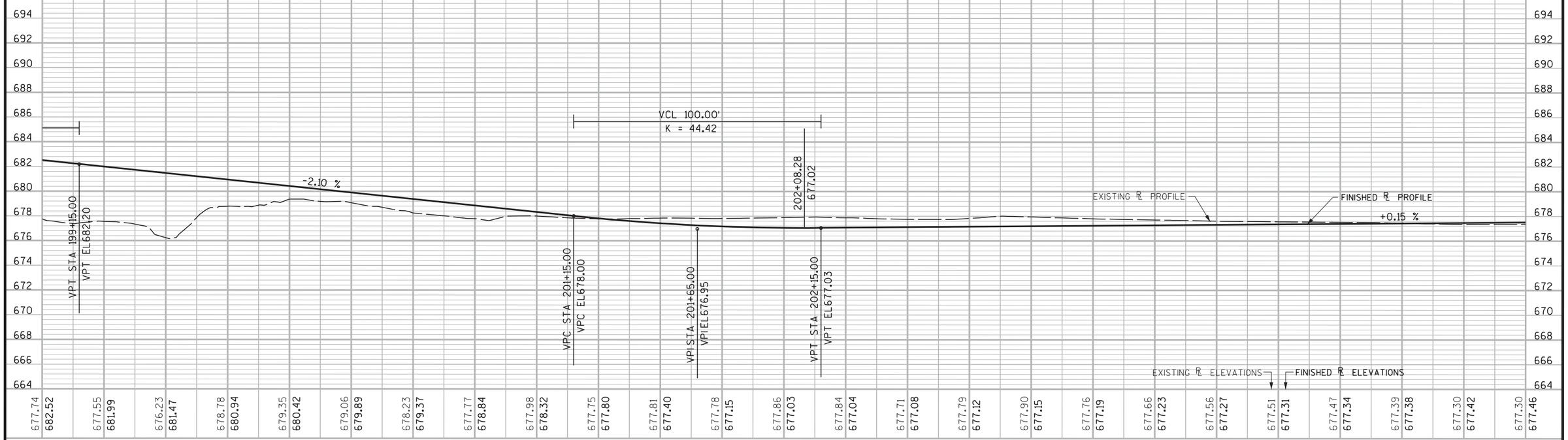
FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\050205_pp (N. Ped).dgn PLOT DATE : 1/6/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.000000 ' / in.

WISDOT/CADDS SHEET 30



BENCH MARKS

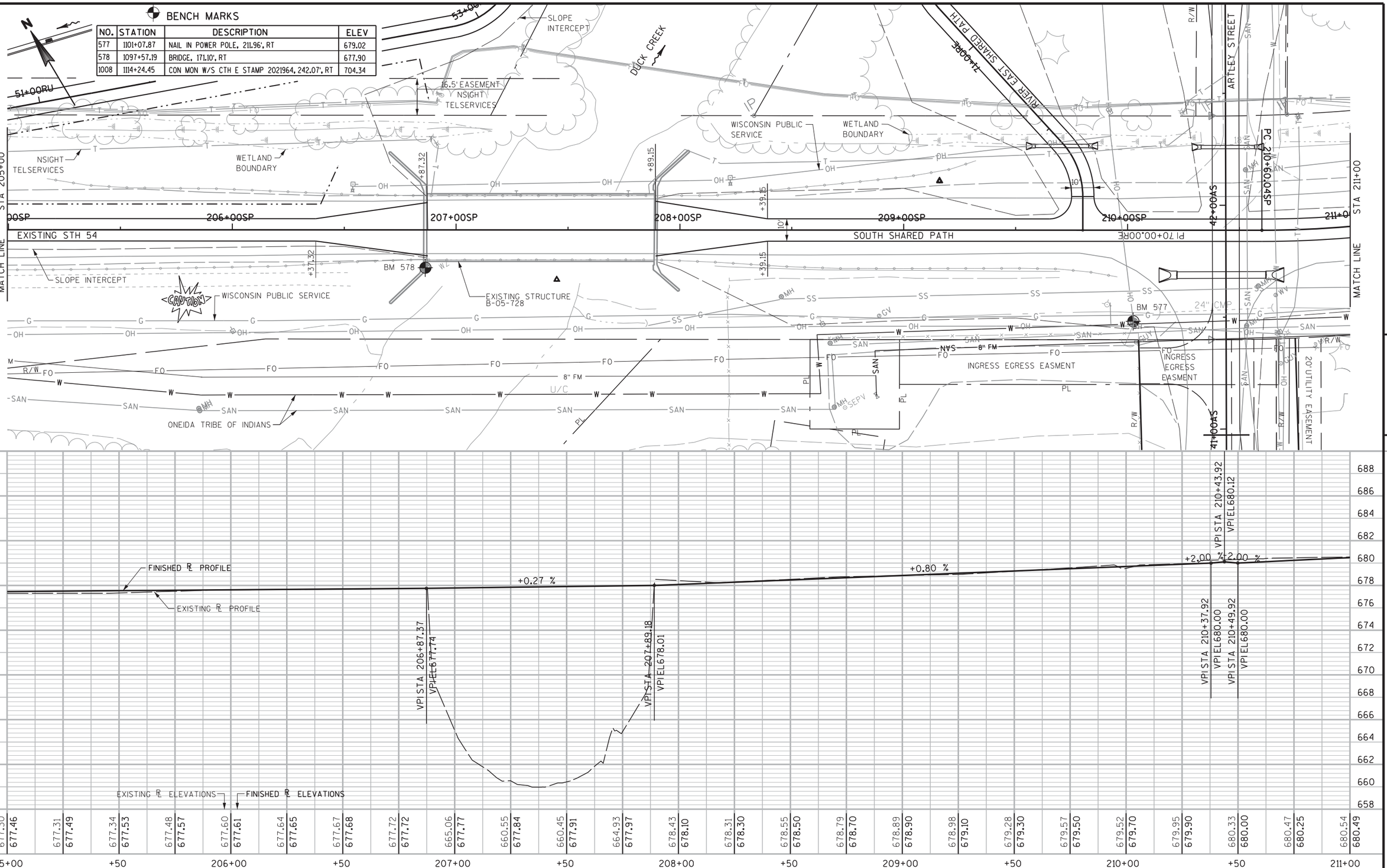
NO.	STATION	DESCRIPTION	ELEV
577	1101+07.87	NAIL IN POWER POLE, 211.96', RT	679.02
578	1097+57.19	-BRIDGE, 171.10', RT	677.90
1008	1114+24.45	CON MON W/S CTH E STAMP 2021964, 242.07', RT	704.34



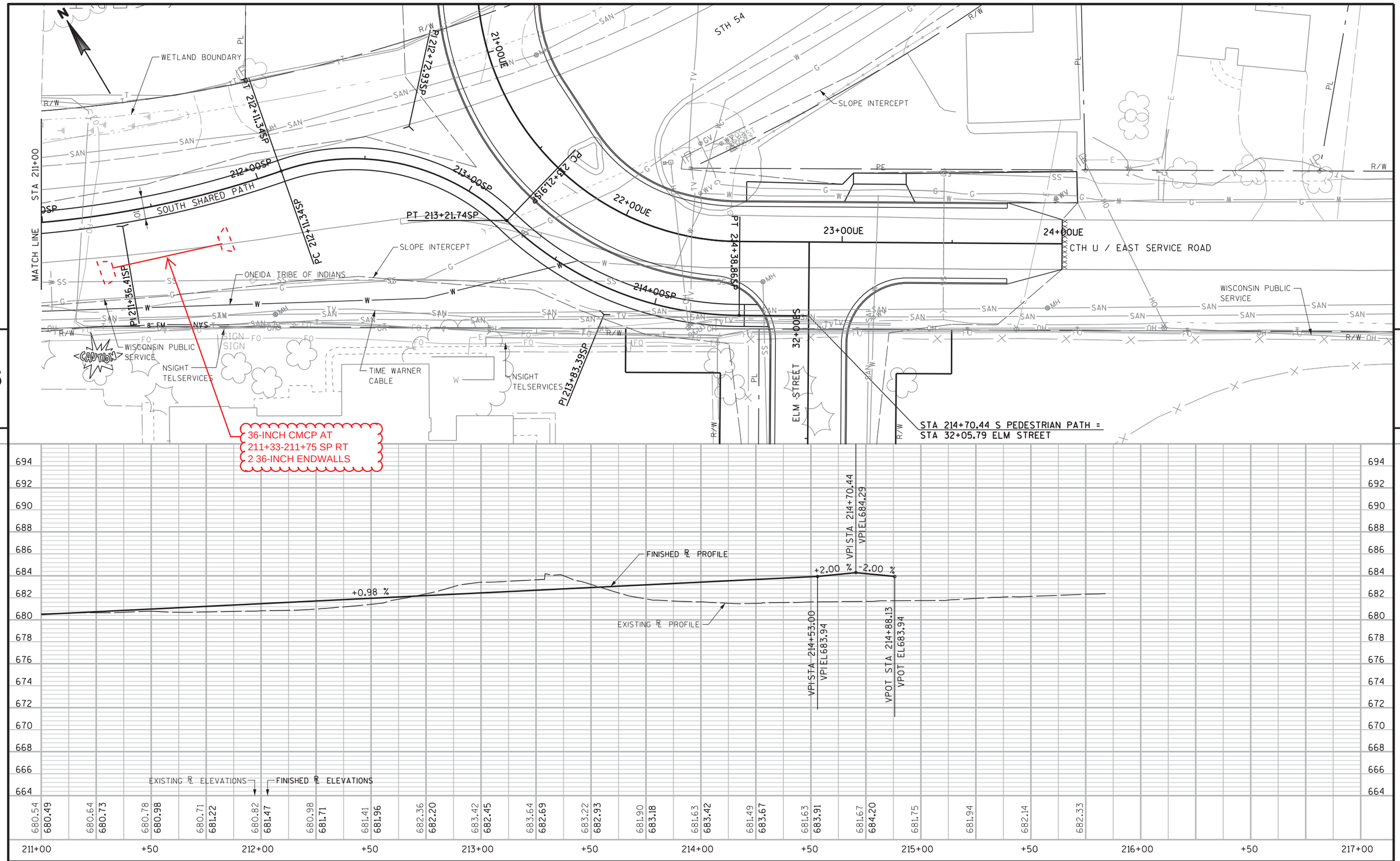
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN AND PROFILE - SOUTH SHARED PATH	SHEET 224	E

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV
577	1101+07.87	NAIL IN POWER POLE, 211.96', RT	679.02
578	1097+57.19	BRIDGE, 171.10', RT	677.90
1008	1114+24.45	CON MON W/S CTH E STAMP 2021964, 242.07', RT	704.34



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN AND PROFILE - SOUTH SHARED PATH	SHEET 225 E



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	PLAN AND PROFILE - SOUTH SHARED PATH	SHEET 226 E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\050303_pp (S. Ped).dgn PLOT DATE : 1/6/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 40.000000 ' / in.

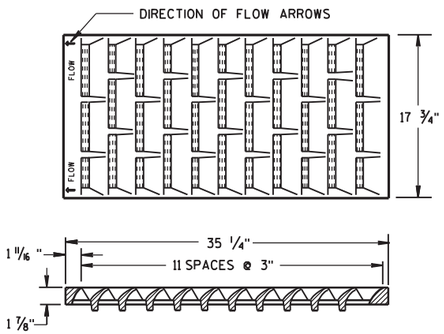
WISDOT/CADDS SHEET 30

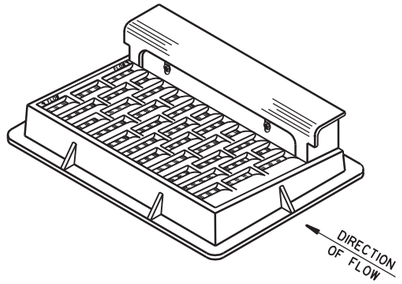
Standard Detail Drawing List

08A5-16A	INLET COVERS TYPE A, H, A-S, & H-S
08A5-16B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A5-17C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A5-17D	INLET COVER, TYPE Z MANHOLE COVERS, TYPE K, J, J-S, J-H, J-H-S, L & M
08A6-4	CATCH BASINS TYPE 1 & 2
08B6-4	MANHOLES TYPE 1
08B7-4	MANHOLES TYPE 2 & 3
08C1-5	INLETS TYPE 1, 2, 3 & 4
08C5-2	INLETS TYPE 8, 9, 10, AND 11
08D1-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D4-5	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D5-14A	CURB RAMPS TYPES 1 AND 1-A
08D5-14B	CURB RAMPS TYPES 2 AND 3
08D5-14C	CURB RAMPS TYPE 4A
08D5-14D	CURB RAMPS TYPE 4B
08D5-14E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E9-6	SILT FENCE
08E10-2	INLET PROTECTION TYPE A, B, C AND D
08E11-2	TURBIDITY BARRIER
08E14-1	TRACKING PAD
08F1-11	APRON ENDWALLS FOR CULVERT PIPE
08F2-1	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F4-6	JOINT TIES FOR CONCRETE PIPE
08F6-4	REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN
08F10-1	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
09B2-7	CONDUIT
09B4-9	PULL BOX
09C2-6	CONCRETE BASES, TYPES 1, 2 & 5
09C3-3	TRANSFORMER/PEDESTAL BASES
09C5-7	CONCRETE CONTROL CABINET BASES
09D1-4	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D2-2	SIGNAL OR LIGHTING CONTROL CABINET
09E1-11D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E1-11G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E3-4	NON-FREEWAY LIGHTING UNIT POLE WIRING
11B2-2	CONCRETE MEDIAN NOSE
13B2-6	CONCRETE PAVEMENT APPROACH SLAB
14A2-1	TREE PLANTING DETAIL
14B42-1A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-1B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-1C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-1A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-1B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-1C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-1A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-1B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-1C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-1D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15A3-1	MARKER POSTS, FLEXIBLE, FOR CULVERT END
15B3-12A	CHAIN LINK FENCE
15B3-12B	CHAIN LINK FENCE
15C2-4A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C2-4B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C3-1	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C4-1	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C5-1	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C6-5	SIGNING & MARKING FOR TWO LANE BRIDGES
15C7-11A	PAVEMENT MARKING SYMBOLS
15C7-12B	PAVEMENT MARKING WORDS
15C7-12C	PAVEMENT MARKING ARROWS
15C8-14A	PAVEMENT MARKING (MAINLINE)
15C8-14B	PAVEMENT MARKING (INTERSECTIONS)
15C8-14E	PAVEMENT MARKING (LEFT TURN LANE)
15C8-14F	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)
15C12-3	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15D28-1	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D31-1	TRAFFIC CONTROL, TEMPORARY BYPASS ROADWAY

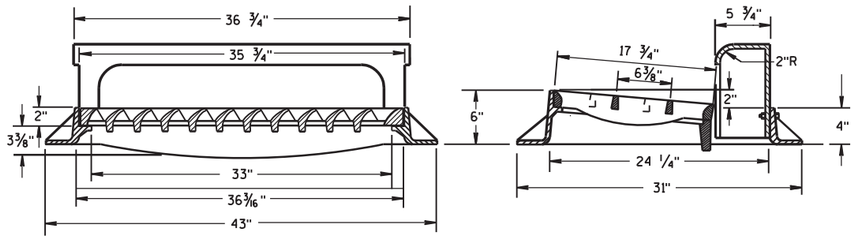
6

NOTE:
GRATE IS REVERSIBLE.





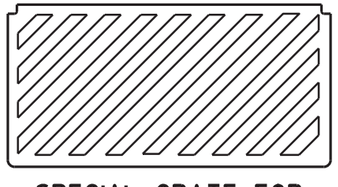
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"



TYPE "H"

(APPROXIMATE WEIGHT 422 LBS.)
FRAME..... 175 LBS.
GRATE..... 138 LBS.
CURB BOX..... 109 LBS.

1 1/8" DIAGONAL BARS WITH 1 5/8" OPENINGS



SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")
(APPROXIMATE WEIGHT 172 LBS.)
GRATE..... 172 LBS.

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

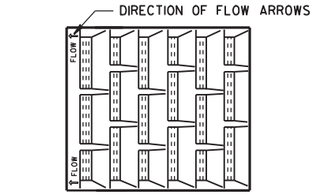
GENERAL NOTES

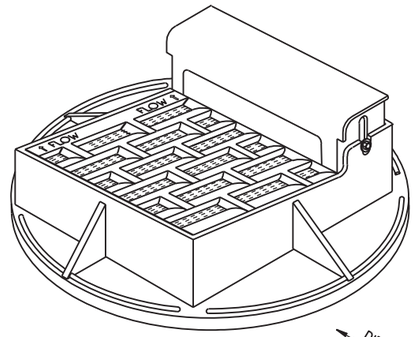
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

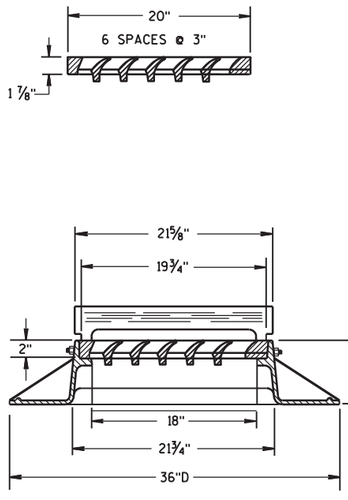
THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.





NOTE: CURB BOX ADJUSTABLE 4" TO 9"

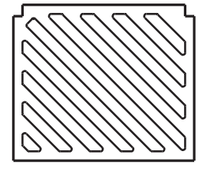
NOTE:
GRATE IS REVERSIBLE.



TYPE "A"

(APPROXIMATE WEIGHT 325 LBS.)
FRAME..... 157 LBS.
GRATE..... 84 LBS.
CURB BOX..... 84 LBS.

1" DIAGONAL BARS WITH 1 1/2" OPENINGS



SPECIAL GRATE FOR TYPE "A" COVER

(MEASURES 19 3/4" X 17" X 1 7/8"
GRATE..... 84 LBS.

(NOTED AS TYPE A-S ON DRAINAGE TABLE)

INLET COVERS
TYPE A, H, A-S, & H-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

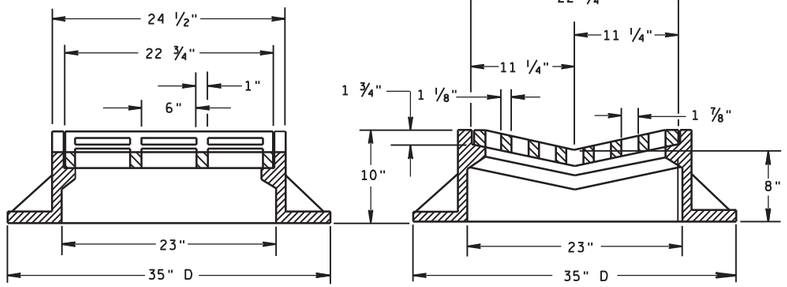
APPROVED
10/4/99
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

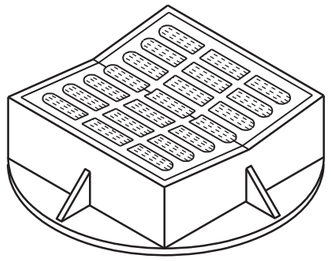
6

S.D.D. 8 A 5-16a

6

S.D.D. 8 A 5-16a

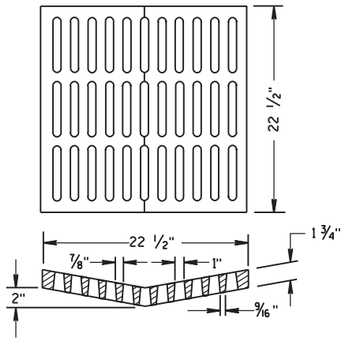




TYPE "B"

(APPROXIMATE WEIGHT 395 LBS.)

FRAME..... 285 LBS.
GRATE..... 110 LBS.

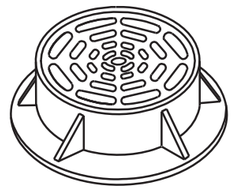


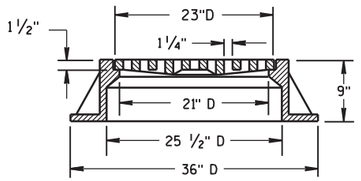
ALTERNATIVE GRATE FOR TYPE "B" COVER

(APPROXIMATE GRATE WEIGHT 125 LBS.)
GRATE..... 125 LBS.

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.

NOTED AS TYPE B-A ON THE DRAINAGE TABLE





TYPE "C"

(APPROXIMATE WEIGHT 340 LBS.)

FRAME..... 235 LBS.
GRATE..... 105 LBS.

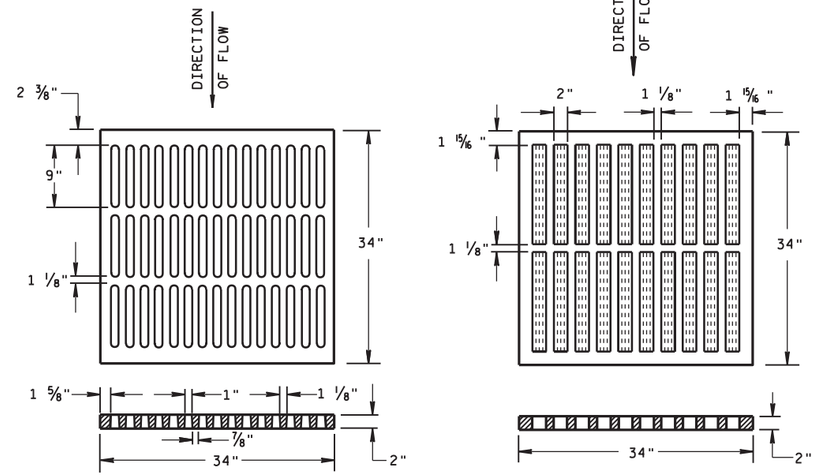
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.



ALTERNATIVE TYPE "MS"

(APPROXIMATE GRATE WEIGHT 365 LBS.)
GRATE..... 365 LBS.

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED

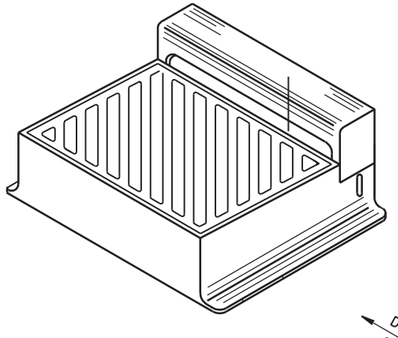
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

TYPE "MS"

(APPROXIMATE GRATE WEIGHT 270 LBS.)
GRATE..... 270 LBS.

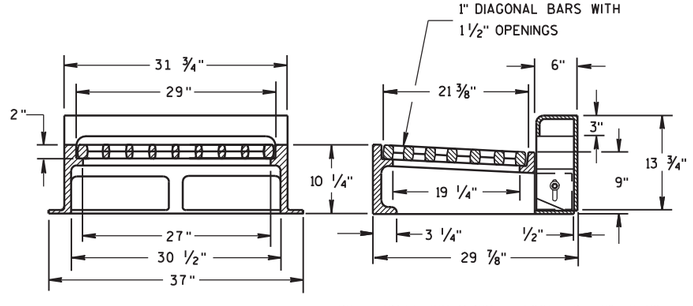
USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON DRAINAGE TABLE



DIRECTION OF FLOW

DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

(APPROXIMATE WEIGHT 670 LBS.)

FRAME..... 360 LBS.
GRATE..... 160 LBS.
CURB BOX..... 150 LBS.

INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/4/99
DATE
FHWA

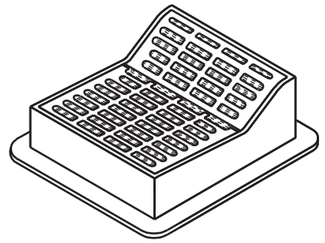
CHIEF ROADWAY DEVELOPMENT ENGINEER

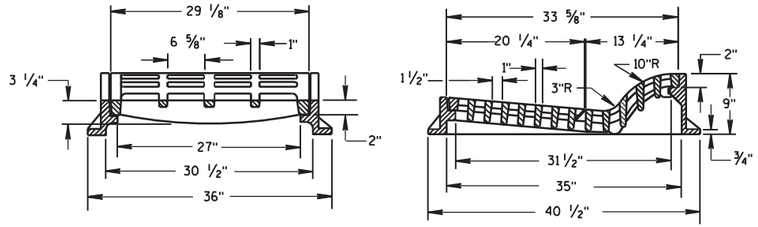
6

S.D.D. 8 A 5-16b

6

S.D.D. 8 A 5-16b



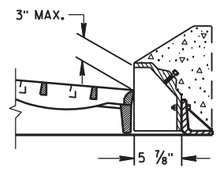


TYPE "F"

(APPROXIMATE WEIGHT 645 LBS.)

FRAME.....300 LBS.
GRATE.....165 LBS.
GRATE.....180 LBS.

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

(APPROXIMATE WEIGHT 79 LBS.)

CURB BOX.....79 LBS.

USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

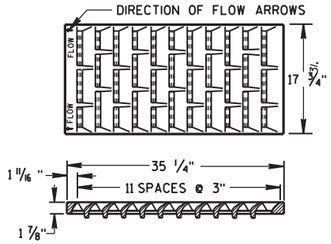
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

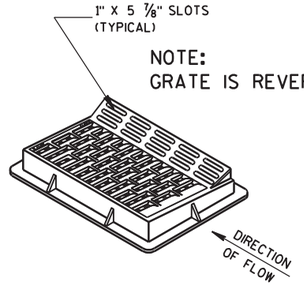
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

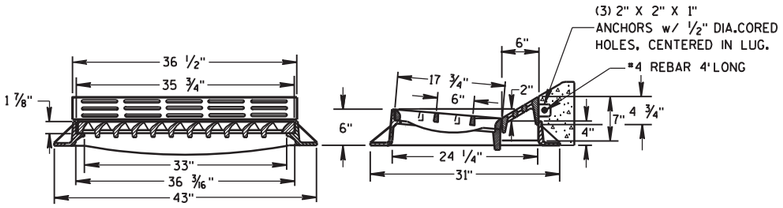
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.





NOTE:
GRATE IS REVERSIBLE.



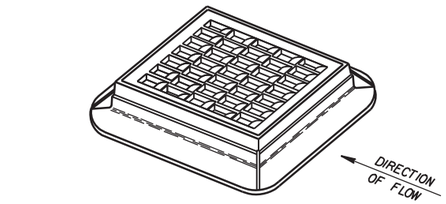
TYPE "HM"

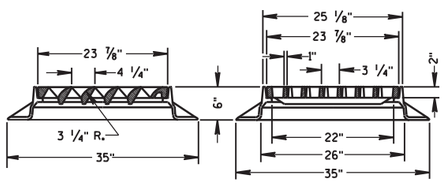
(APPROXIMATE WEIGHT 375 LBS.)

FRAME.....175 LBS.
GRATE.....138 LBS.
CURB BOX..... 62 LBS.

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE

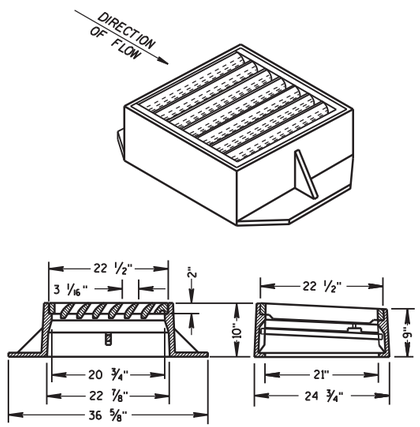




TYPE "S"

(APPROXIMATE WEIGHT 334 LBS.)

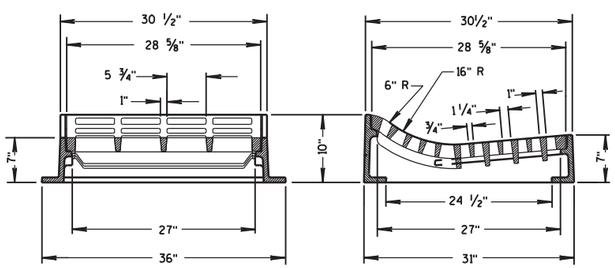
FRAME.....165 LBS.
GRATE.....169 LBS.



TYPE "V"

(APPROXIMATE WEIGHT 405 LBS.)

FRAME.....270 LBS.
GRATE.....130 LBS.
SAFETY BAR..... 5 LBS.

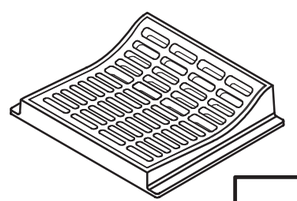


TYPE "T"

(APPROXIMATE WEIGHT 530 LBS.)

FRAME.....270 LBS.
GRATE.....260 LBS.

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 30 INCH.



INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

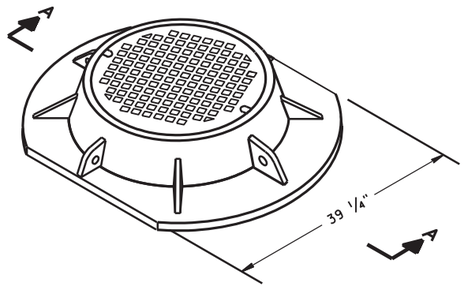
APPROVED
12/17/07
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

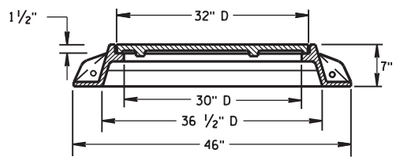
6

S.D.D. 8 A 5-17c

6

S.D.D. 8 A 5-17c



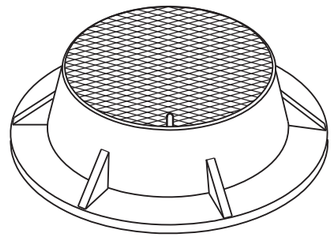


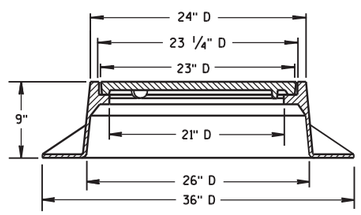
SECTION A-A

TYPE "K"

(APPROXIMATE WEIGHT 415 LBS.)

FRAME.....210 LBS.
LID.....205 LBS.

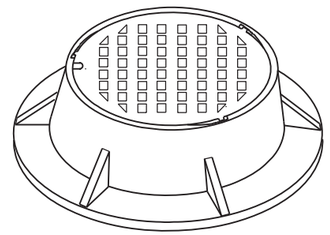


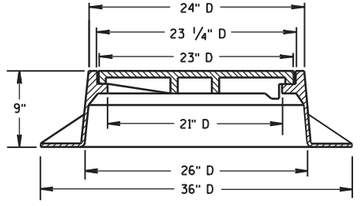


TYPE "J"

(APPROXIMATE WEIGHT 250 LBS.)

FRAME.....135 LBS.
LID.....115 LBS.





TYPE "J" SPECIAL

TYPE "B" NON-ROCKING SELF-SEAL LID

(APPROXIMATE WEIGHT 245 LBS.)

FRAME.....145 LBS.
LID.....100 LBS.

(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

GENERAL NOTES

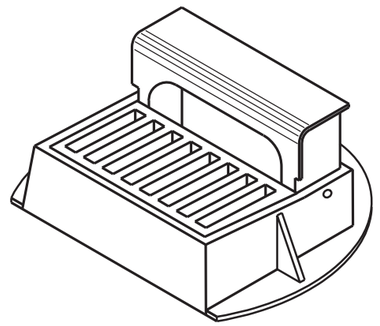
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

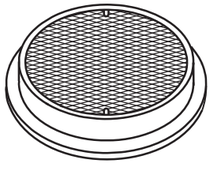
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

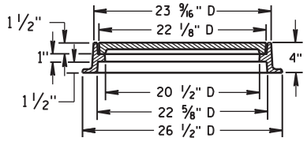
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

(1) MANUFACTURER MAY PROVIDE ADDITIONAL SEALS OR GASKETS.



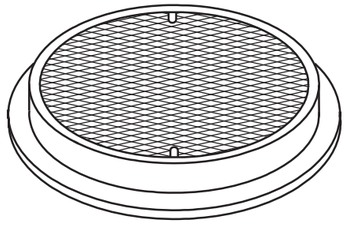


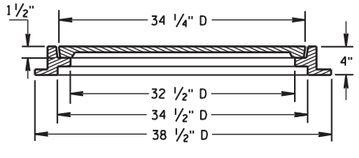


TYPE "L"

(APPROXIMATE WEIGHT 145 LBS.)

FRAME.....75"
LID.....70"

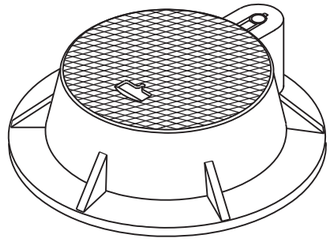


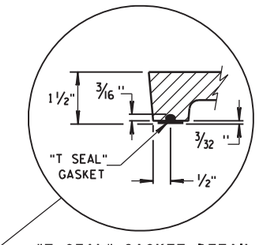


TYPE "M"

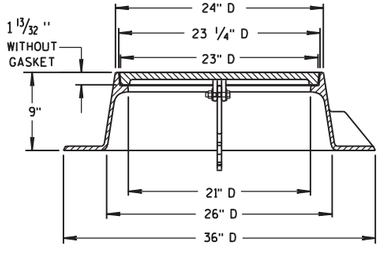
(APPROXIMATE WEIGHT 385 LBS.)

FRAME..... 125"
LID..... 260"





"T SEAL" GASKET DETAIL



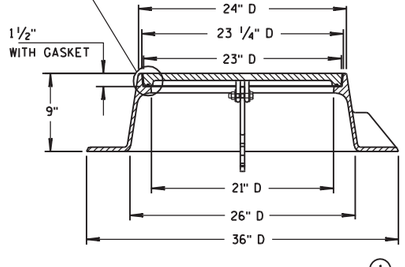
TYPE "J" HINGED

LID WITHOUT "T SEAL" GASKET

(APPROXIMATE WEIGHT 310 LBS.)

FRAME.....190 LBS.
LID.....120 LBS.

(NOTED AS TYPE J-H ON THE DRAINAGE TABLE)



TYPE "J" HINGED-SPECIAL (1)

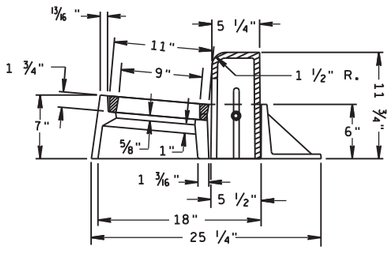
LID WITH "T SEAL" GASKET

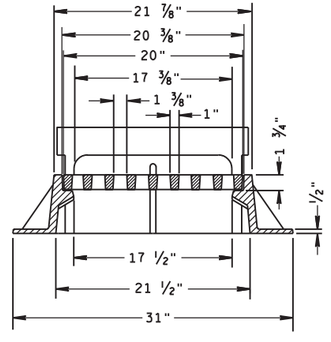
(APPROXIMATE WEIGHT 310 LBS.)

FRAME.....190 LBS.
LID.....120 LBS.

(NOTED AS TYPE J-S-H ON THE DRAINAGE TABLE)

CURB BOX ADJUSTABLE 4" TO 10"





INLET COVER TYPE "Z"

(APPROXIMATE WEIGHT 340 LBS.)

FRAME.....198 LBS.
GRATE..... 50 LBS.
CURB BOX..... 92 LBS.

INLET COVER, TYPE Z
MANHOLE COVERS, TYPE
K, J, J-S, J-H, J-H-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05
DATE
FHWA

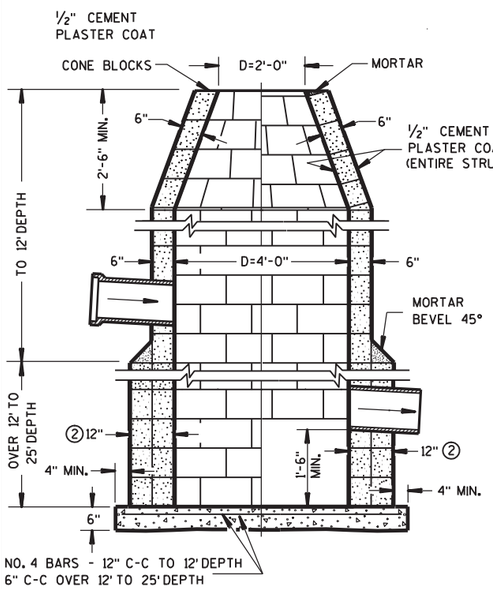
CHIEF ROADWAY DEVELOPMENT ENGINEER

6

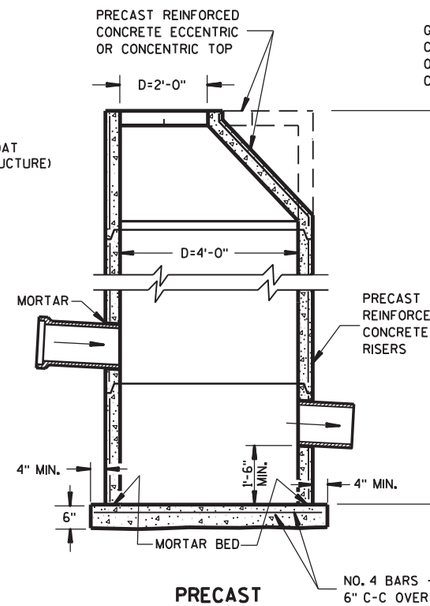
S.D.D. 8 A 5-17d

6

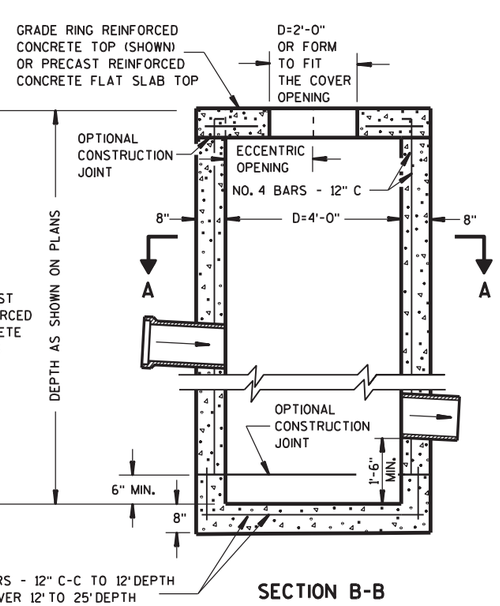
S.D.D. 8 A 5-17d



CONCRETE BLOCK

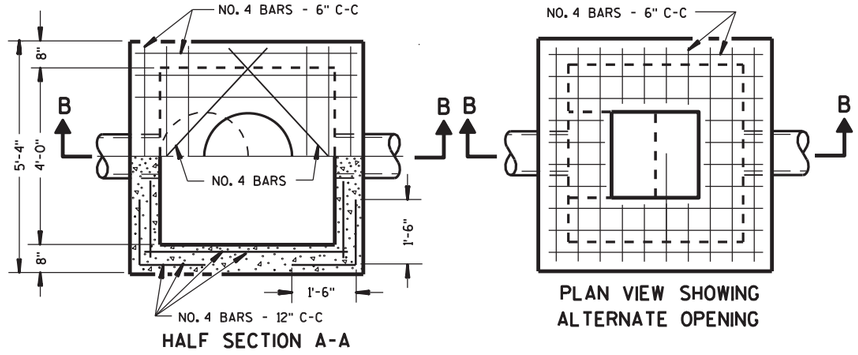


PRECAST REINFORCED CONCRETE



SECTION B-B
REINFORCED CONCRETE

CATCH BASINS, TYPE 1



HALF SECTION A-A

PLAN VIEW SHOWING ALTERNATE OPENING

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 1-C", "CATCH BASINS 1-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

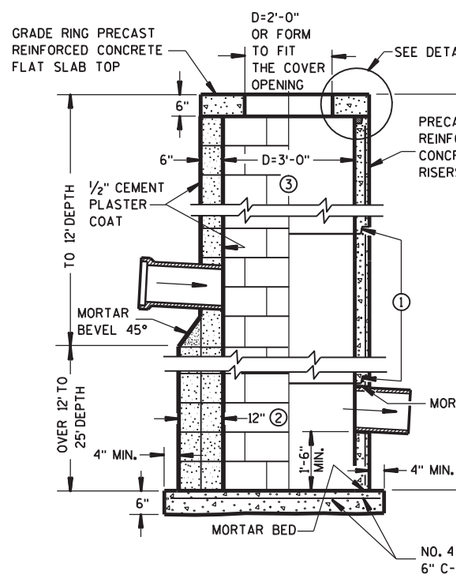
ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

THE "PRECAST REINFORCED CONCRETE FLAT SLAB TOP" OPTION IS REQUIRED ON CATCH BASINS, TYPE 1 WHEN 2' X 3' OPENING INLET COVERS ARE REQUIRED.

① PRECAST REINFORCED CONCRETE RISERS SHALL BE PLACED WITH THE TONGUE DOWN WHEN GRADE RINGS ARE USED FOR THE SLAB TOP.

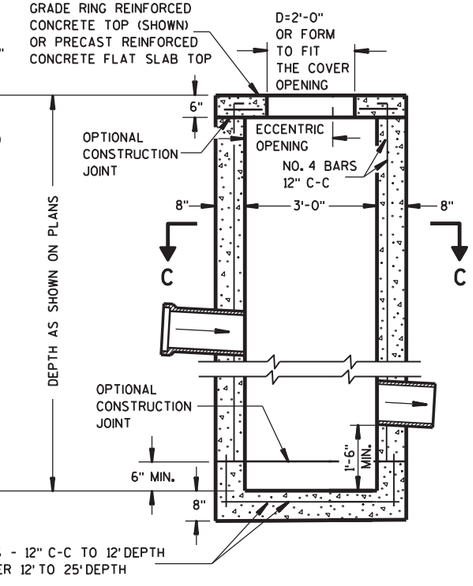
② 2 COURSES 6" BLOCK.

③ WHEN THE CONNECTING PIPES ARE 24" OR LARGER THE PRECAST CATCH BASIN MAY BE INCREASED TO 42" DIA.

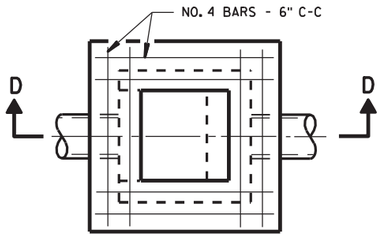


CONCRETE BLOCK

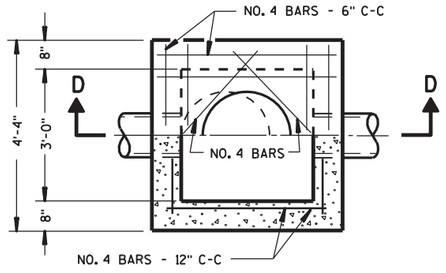
PRECAST REINFORCED CONCRETE



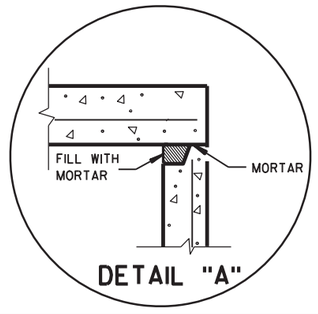
SECTION D-D
REINFORCED CONCRETE



PLAN VIEW SHOWING ALTERNATE OPENING



HALF SECTION C-C



DETAIL "A"

CATCH BASINS, TYPE 2

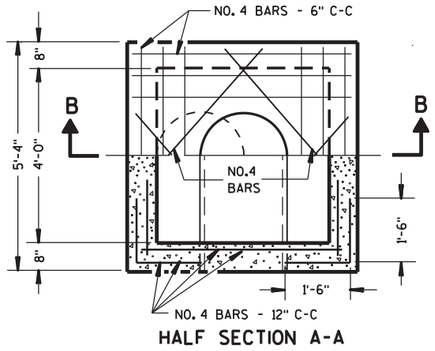
CATCH BASINS TYPE 1 & 2

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

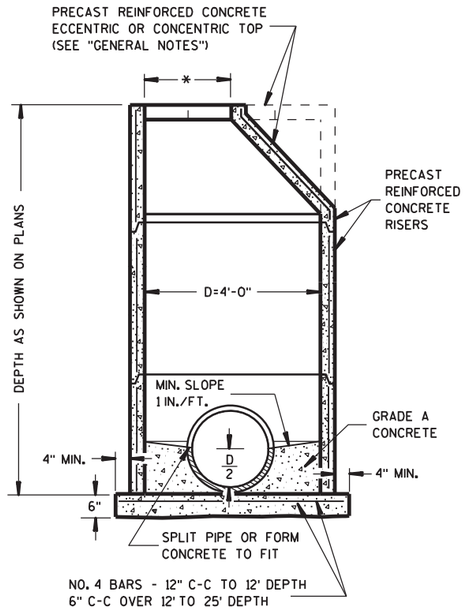
APPROVED
6/9/99
DATE

CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA



HALF SECTION A-A



PRECAST REINFORCED CONCRETE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 1-C", "CATCH BASINS 1-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS CONFORMING TO AASHTO M 199 SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH.

SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 0.75 INCH. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT.

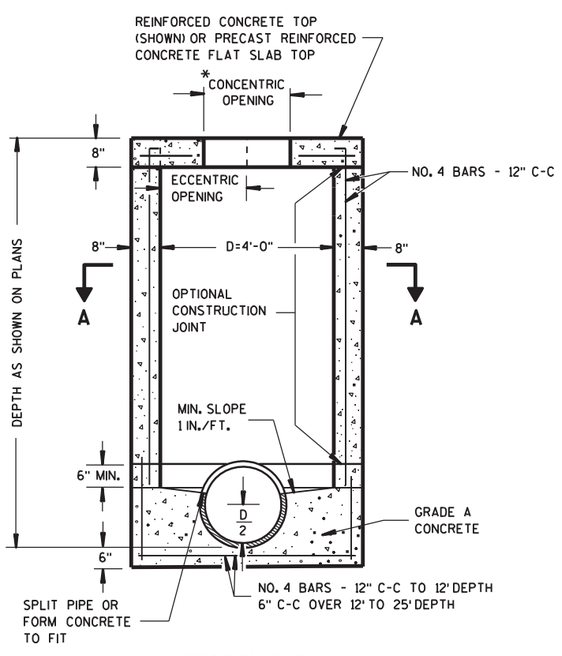
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.

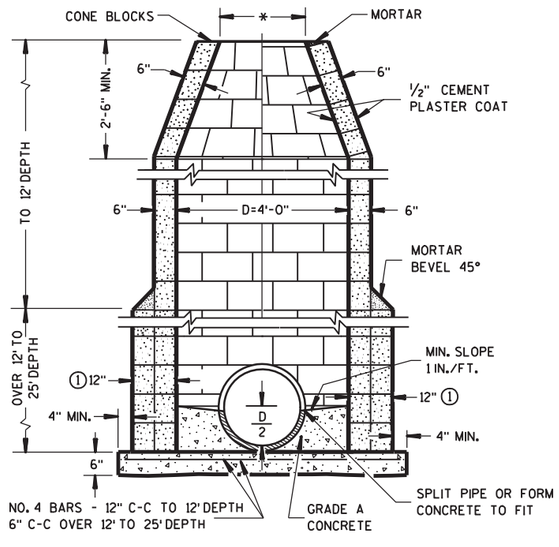
ALL PRECAST INLET UNITS AND MANHOLES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

* USE 2'-0" DIAMETER OPENING WITH TYPE "C", "L" AND "J" COVERS, OR 3'-0" DIAMETER WITH TYPE "K" AND "M" COVERS.

① 2 COURSES 6" BLOCK.



SECTION B-B
REINFORCED CONCRETE



CONCRETE BLOCK

MANHOLES TYPE 1

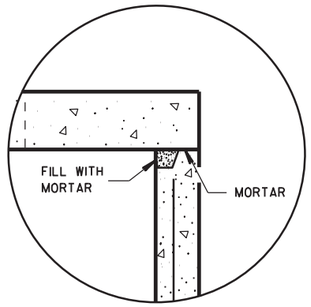
MANHOLES TYPE 1	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 9/9/05 DATE FHWA	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

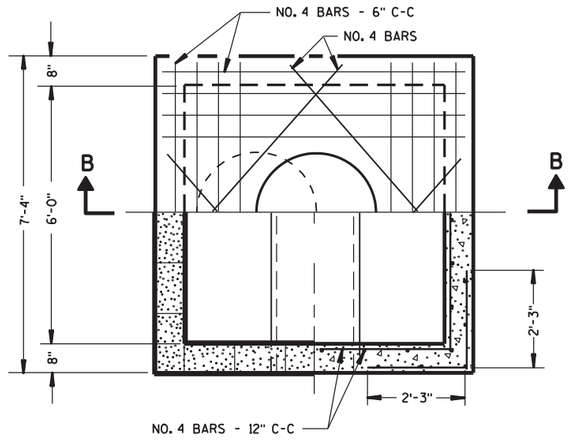
S.D.D. 8 B 6-4

6

S.D.D. 8 B 6-4



DETAIL "A"



HALF SECTION A-A

GENERAL NOTES

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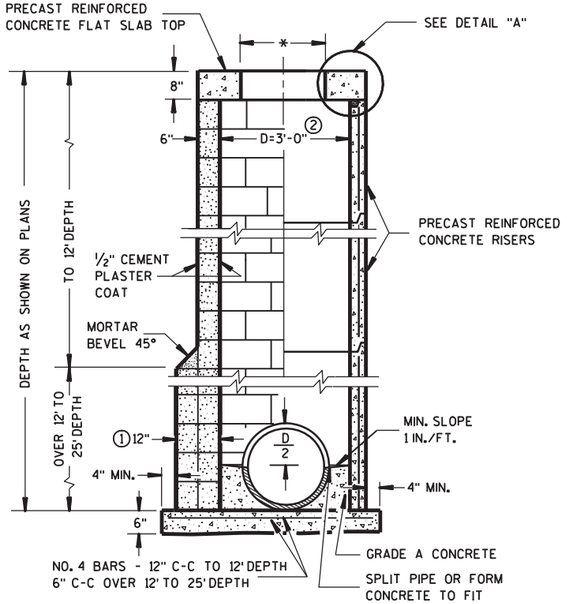
① 2 COURSES 6" BLOCK.

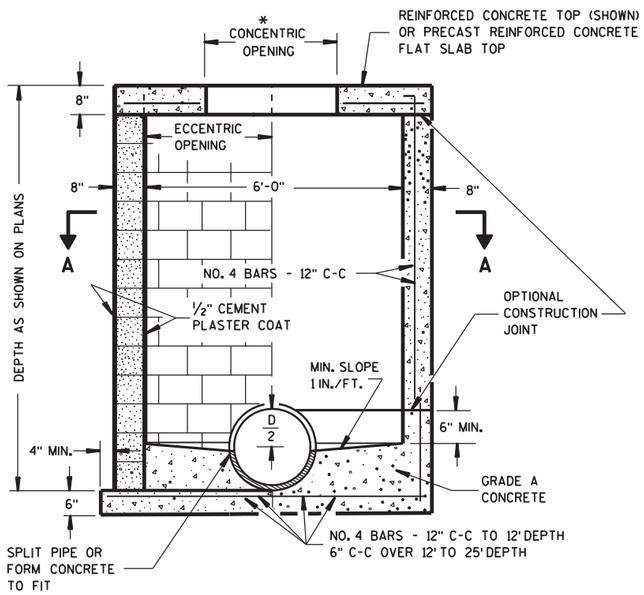
② WHEN CONNECTING PIPES ARE 24" OR LARGER THE PRECAST MANHOLES MAY BE INCREASED TO 42" DIAMETER.



CONCRETE BLOCK

② PRECAST REINFORCED CONCRETE

MANHOLES TYPE 2

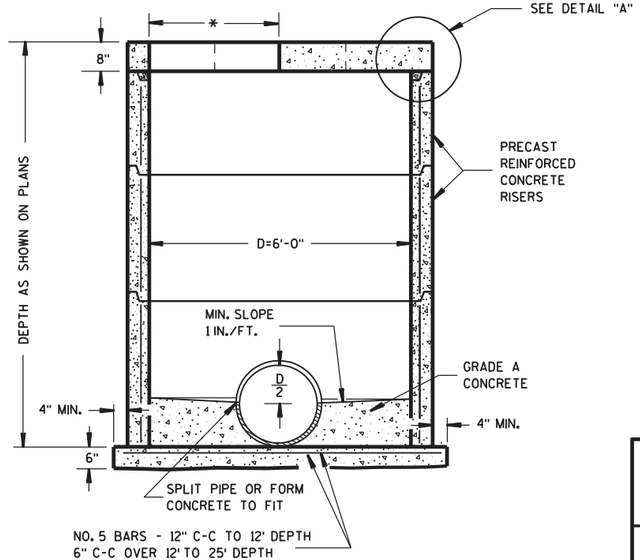


SECTION B-B

CONCRETE BLOCK

REINFORCED CONCRETE

MANHOLES TYPE 3



PRECAST REINFORCED CONCRETE

MANHOLES TYPE 2 & 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/9/05
DATE
FHWA

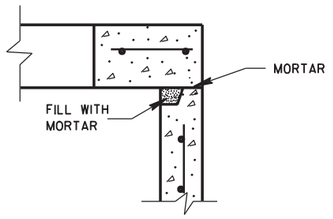
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

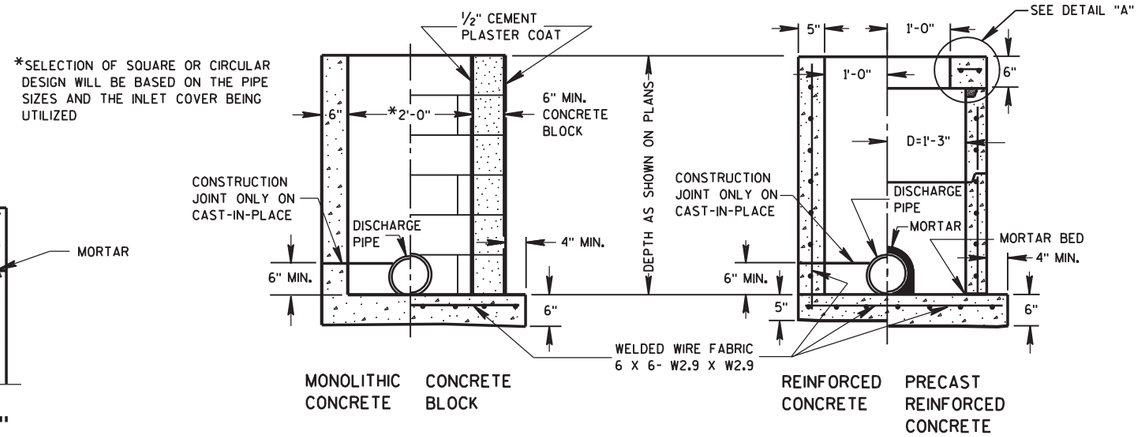
S.D.D. 8 B 7-4

6

S.D.D. 8 B 7-4



DETAIL "A"



INLETS TYPE 1

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 1-C", "CATCH BASINS 1-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

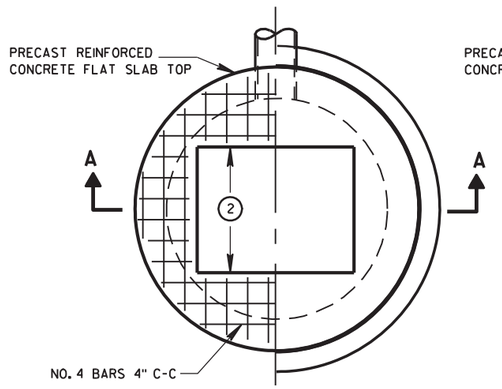
PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

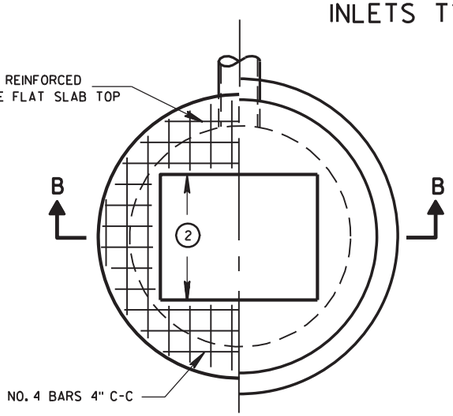
PRECAST REINFORCED CONCRETE RISERS SHALL BE PLACED WITH TONGUE DOWN.

(1) USE 2'-6" OPENING FOR TYPE 2 INLETS, 3'-0" OPENING FOR TYPE 3 INLETS, AND 2'-11" FOR TYPE 4 INLETS.

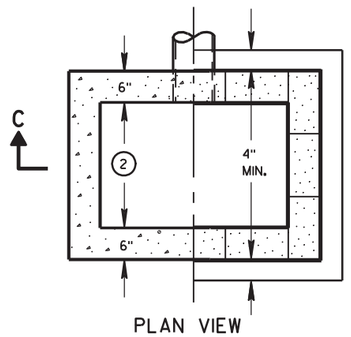
(2) USE 2'-0" OPENING FOR TYPE 1, 2 & 3 INLETS, 2'-6½" OPENING FOR TYPE 4 INLETS.



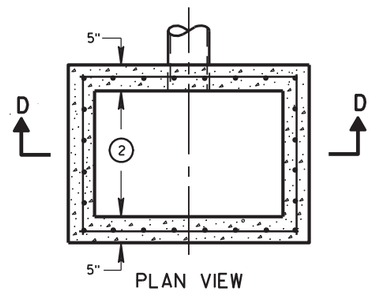
PLAN VIEW



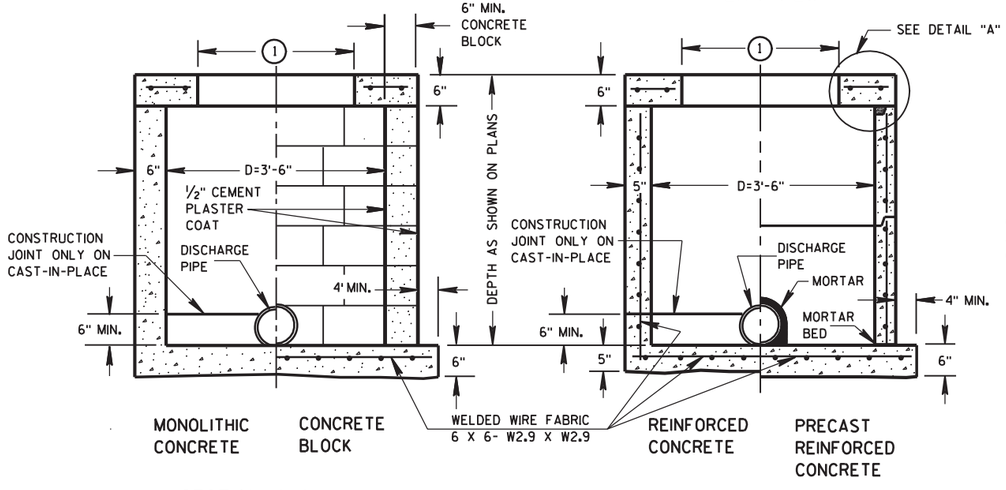
PLAN VIEW



PLAN VIEW

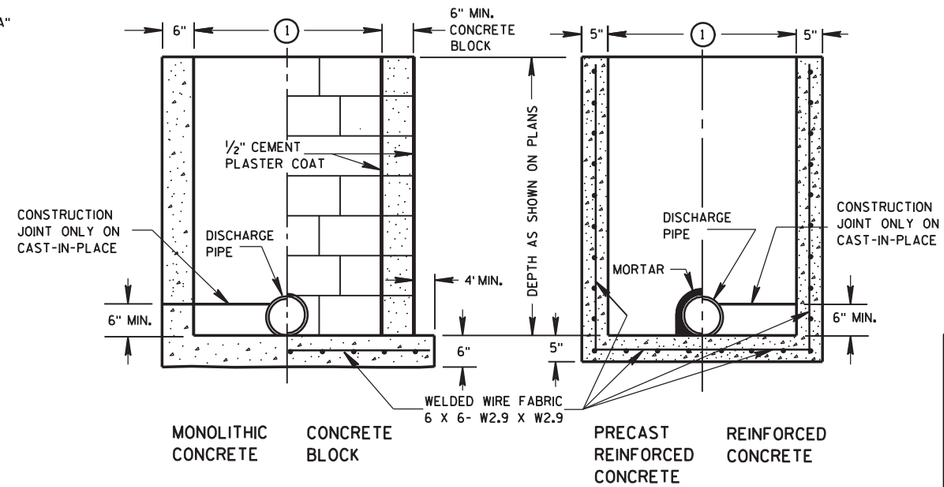


PLAN VIEW



SECTION A-A

SECTION B-B



SECTION C-C

SECTION D-D

INLETS TYPE 2, 3 & 4

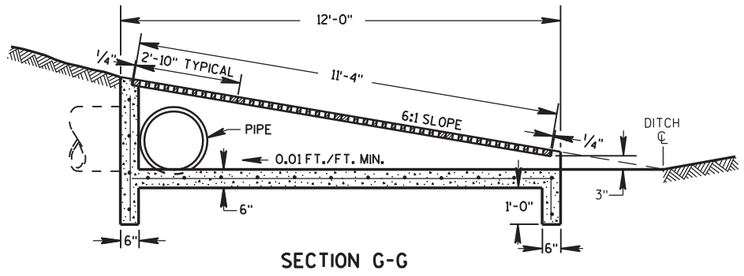
INLETS TYPE 1, 2, 3 & 4

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

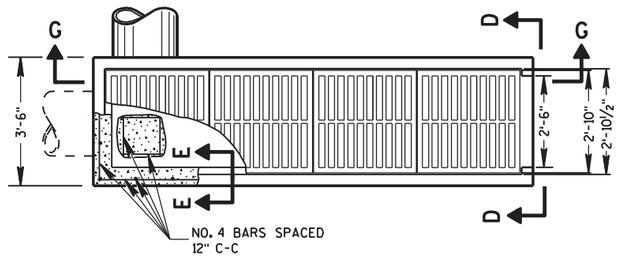
APPROVED
8/26/94
DATE
FHWA

CHIEF ROADWAY DEVELOPMENT ENGINEER

S.D.D. 8 C 1-5

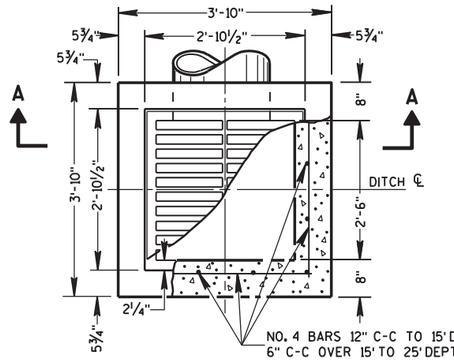


SECTION G-G

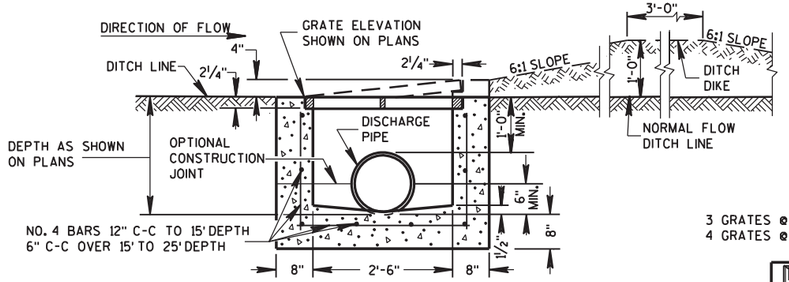


PLAN VIEW

REINFORCED CONCRETE INLET TYPE 11

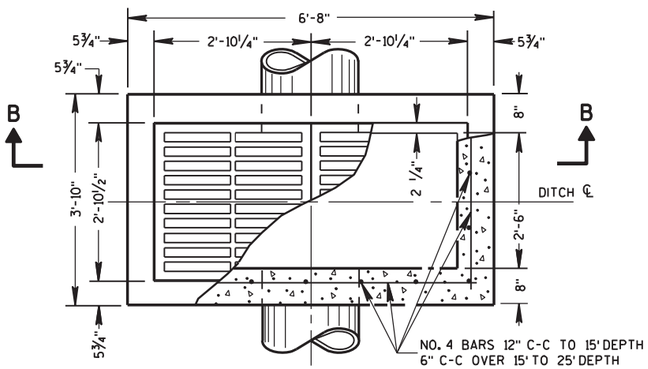


PLAN VIEW

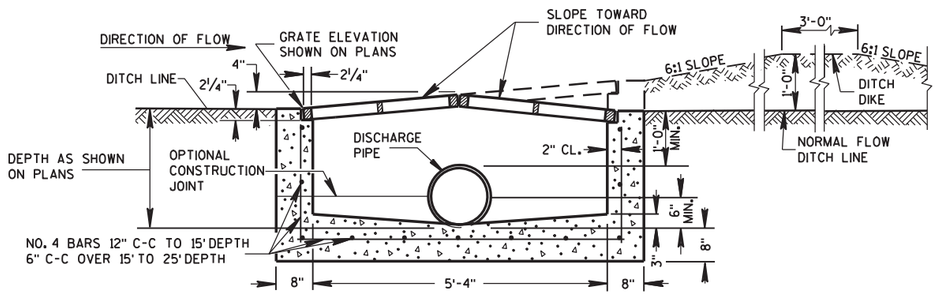


SECTION A-A

REINFORCED CONCRETE INLET TYPE 8



PLAN VIEW



SECTION B-B

REINFORCED CONCRETE INLET TYPE 9

GENERAL NOTES

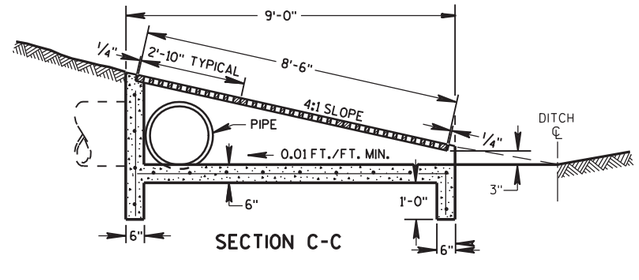
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

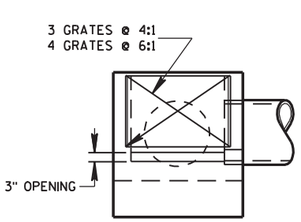
PRECAST REINFORCED CONCRETE INLET UNITS, IF USED, SHALL CONFORM TO THE REQUIREMENTS OF THE CATCH BASINS, MANHOLES AND INLETS SECTION OF THE STANDARD SPECIFICATIONS. UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A CORRECTED LIST OF SIZES IS FURNISHED BY THE ENGINEER.

ALL INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 8-MS", ETC. THIS DESIGNATION IS INTERPRETED TO MEAN THAT THE NUMBER, OR FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER OR IRON CASTING TO BE USED THEREWITH TO COMPRISE THE COMPLETE UNIT.

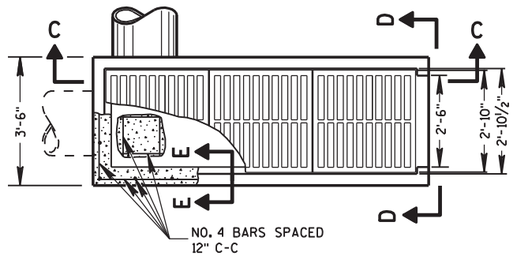
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.



SECTION C-C

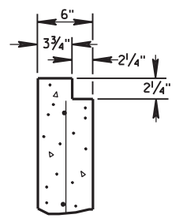


SECTION D-D



PLAN VIEW

REINFORCED CONCRETE INLET TYPE 10



SECTION E-E

INLETS TYPE 8, 9, 10 AND 11

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/10/94
DATE

CHIEF ROADWAY DEVELOPMENT ENGINEER

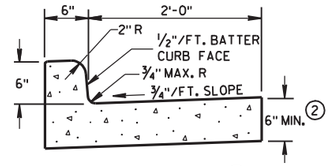
FHWA

6

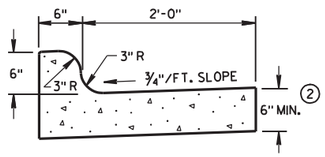
S.D.D. 8 C 5-2

6

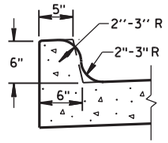
S.D.D. 8 C 5-2



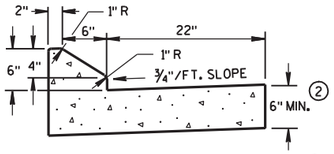
TYPES A & D ①



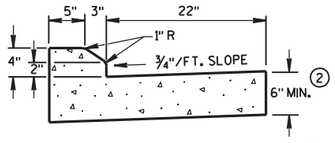
TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

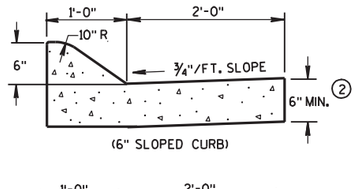


6" SLOPED CURB TYPES G & J ①

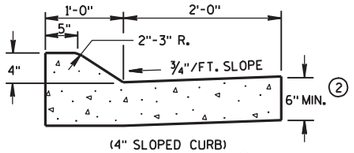


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

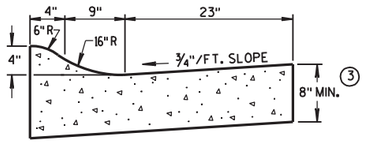


(6" SLOPED CURB)



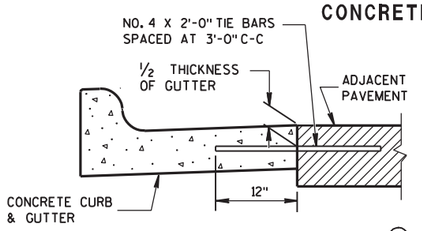
(4" SLOPED CURB)

TYPES A & D ①

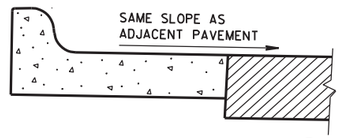


4" SLOPED CURB TYPES R & T ①④

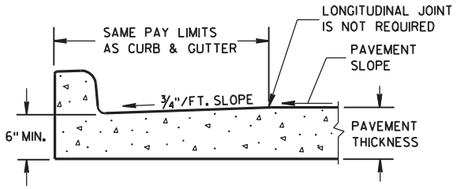
CONCRETE CURB & GUTTER 36"



TYPICAL TIE BAR LOCATION ①



REVERSE SLOPE GUTTER ⑤
(TYPICAL FOR ALL CURB & GUTTER TYPES)



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

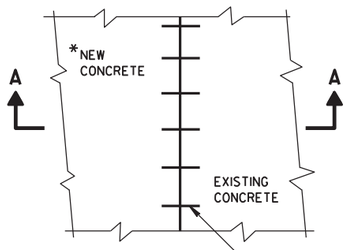
① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.

② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

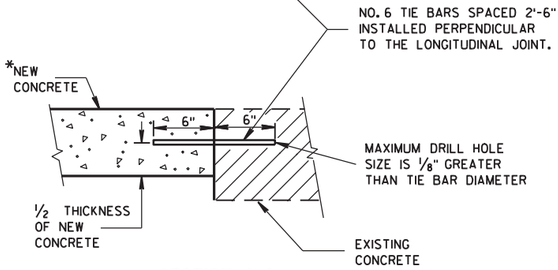
④ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



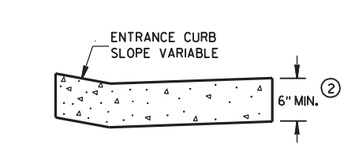
*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

PLAN VIEW

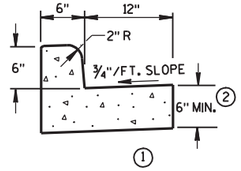


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

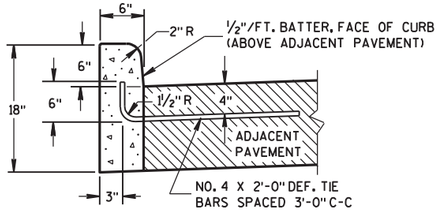


DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

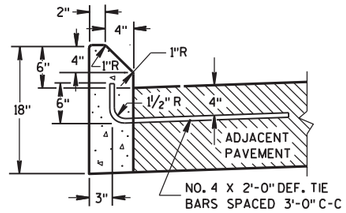


① TYPES A & D

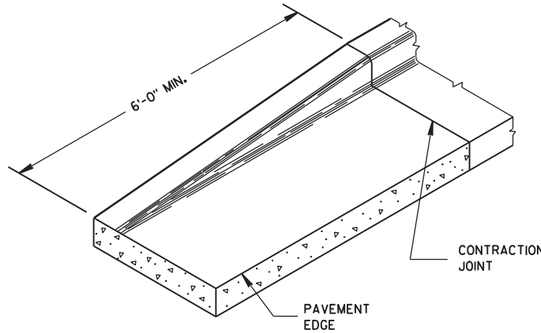
CONCRETE CURB & GUTTER 18"



① TYPES A & D



① TYPES G & J



END SECTION CURB & GUTTER

CONCRETE CURB

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

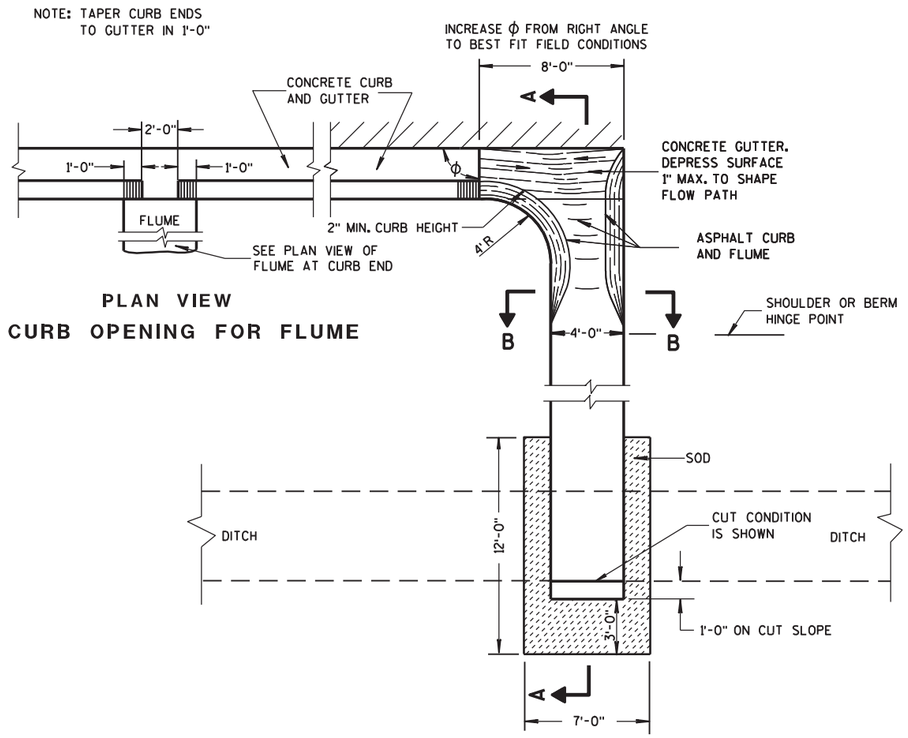
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/4/08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

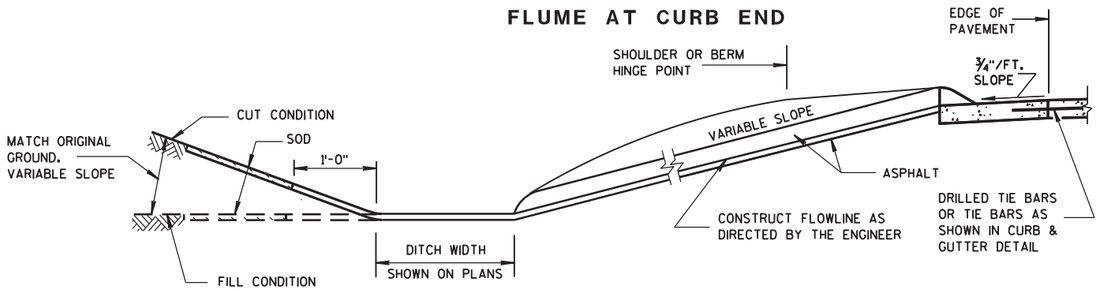
S.D.D. 8 D 1-17

ASPHALTIC FLUME

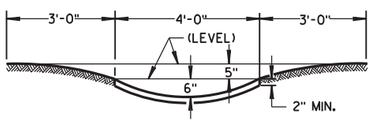


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

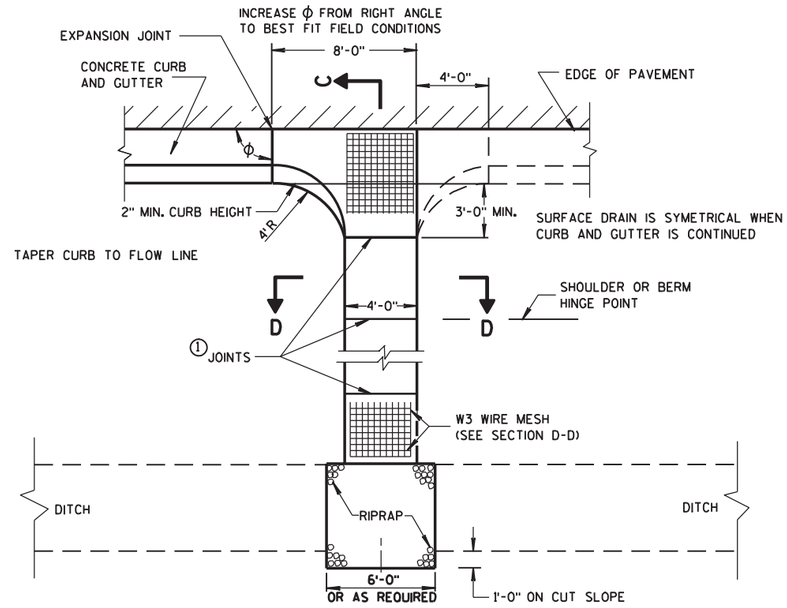
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE ⅛ TO ¼ INCH WIDE BY 1½ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

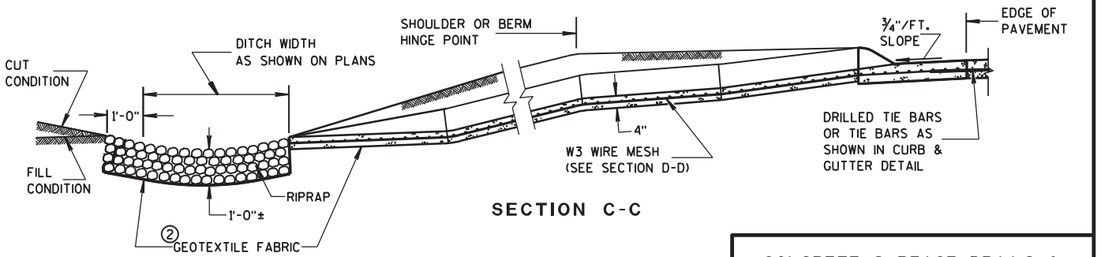
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

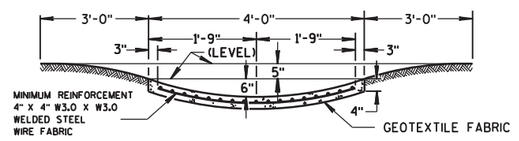
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9-4-08
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

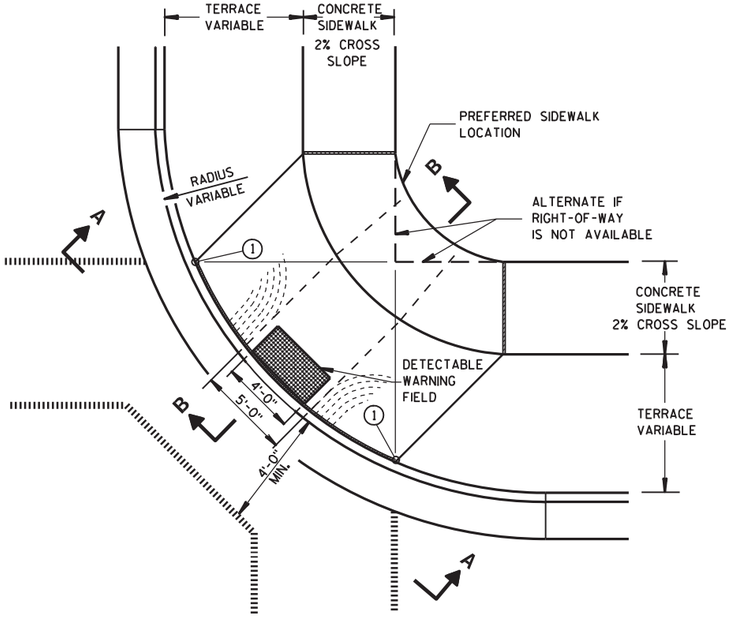
FHWA

6

S.D.D. 8 D 4-5

6

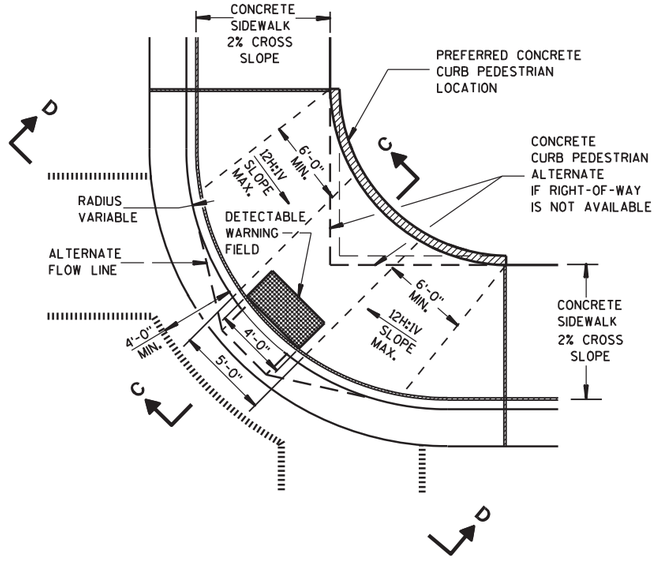
S.D.D. 8 D 4-5



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

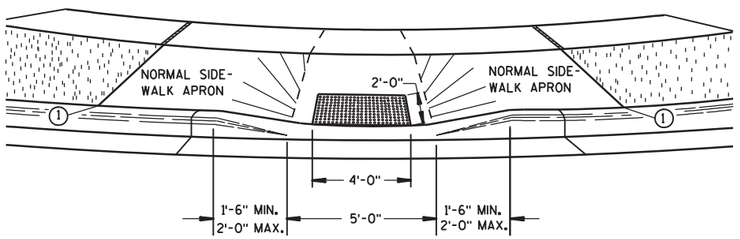
SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.

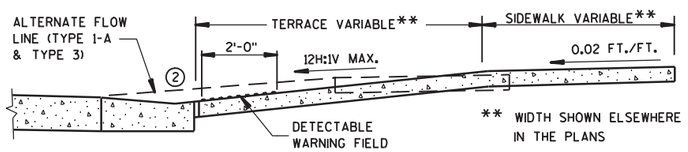
(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

LEGEND

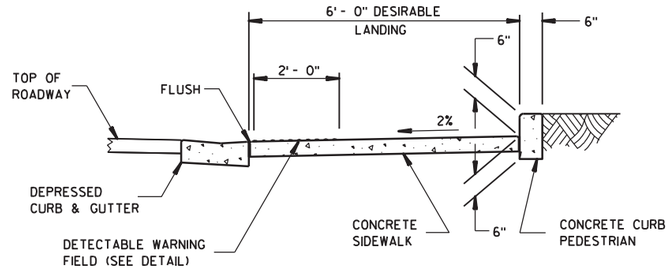
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



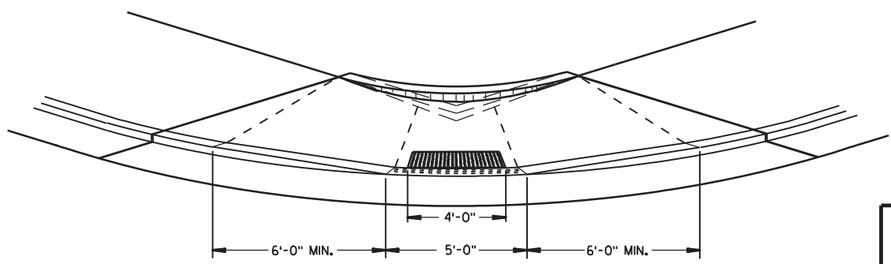
VIEW A-A



SECTION B-B



SECTION C-C



VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

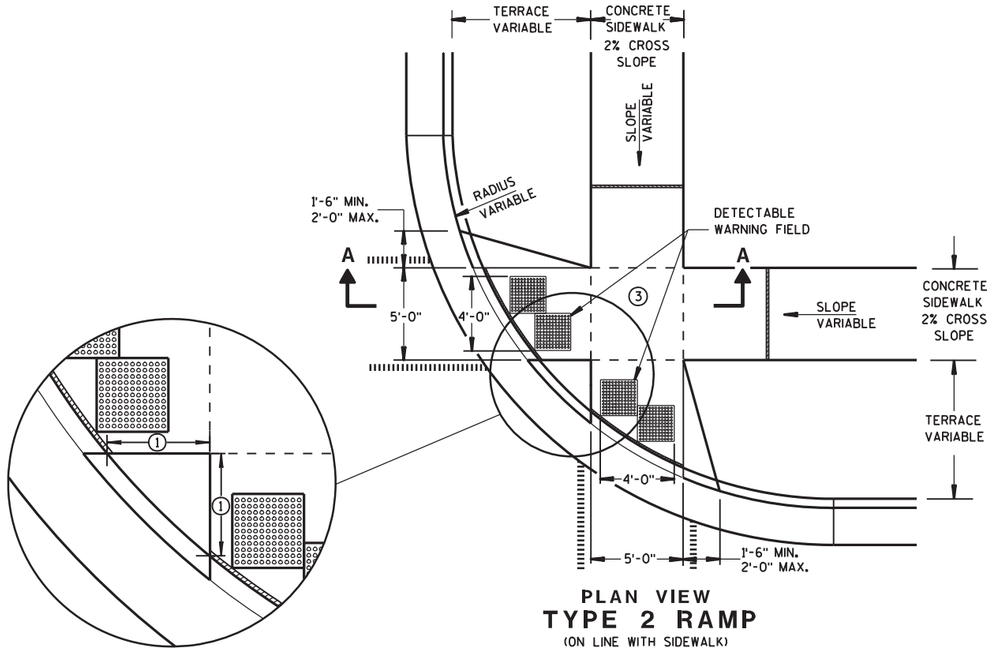
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 8 D 5-14a

6

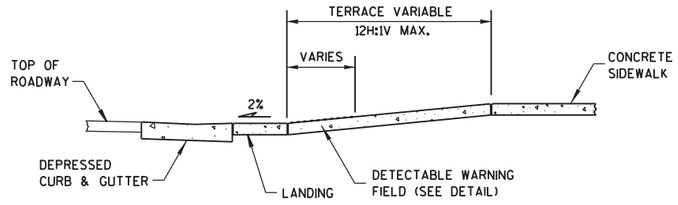
S.D.D. 8 D 5-14a



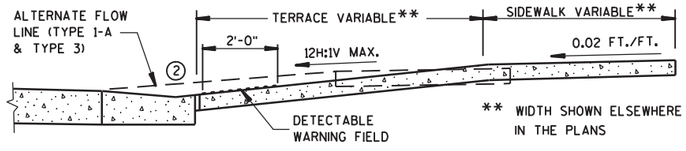
PLAN VIEW

TYPE 2 RAMP

(ON LINE WITH SIDEWALK)



SECTION A-A



SECTION B-B

GENERAL NOTES

USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

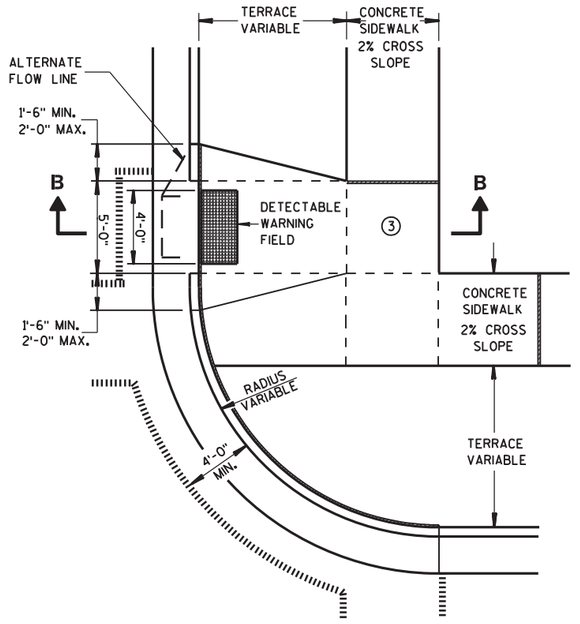
(1) WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 12H:1V SLOPE, OR FLATTER, ON THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 12H:1V SLOPE, OR FLATTER, ON RAMP. 2" MINIMUM CURB HEIGHT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

(3) PROVIDE LANDING AT TOP OF RAMP WITH NO MORE THAN 2% SLOPE IN ANY DIRECTION.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



PLAN VIEW

TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS
TYPES 2 AND 3

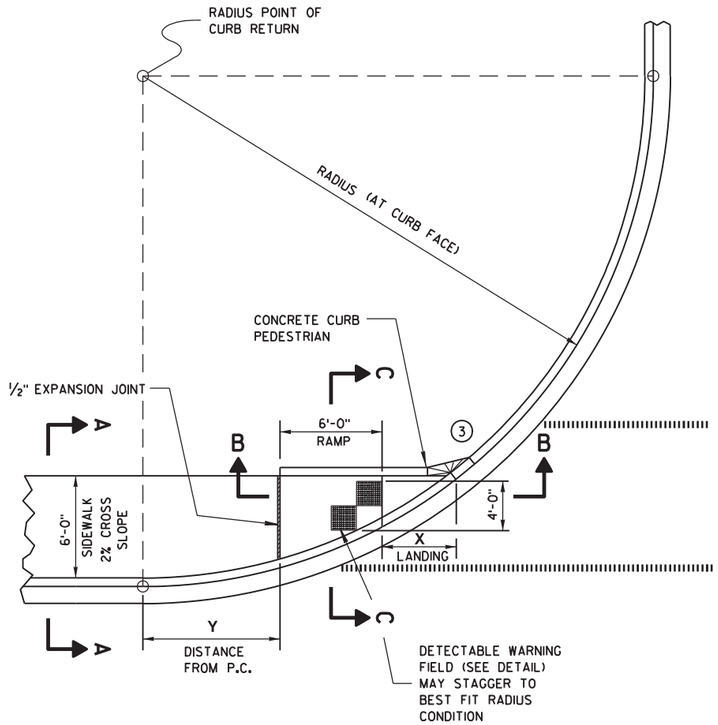
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 8 D 5-14b

6

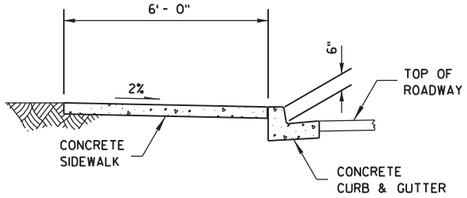
S.D.D. 8 D 5-14b



CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X	Y
20 FEET	6'-1¾"	2'-7¼"
30 FEET	7'-11¾"	4'-8¼"
40 FEET	9'-5¼"	6'-5"
50 FEET	10'-8¾"	7'-11¼"
60 FEET	11'-10¼"	9'-3½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A

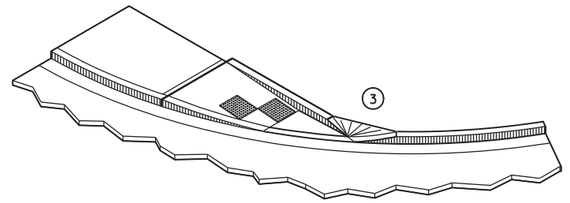
GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

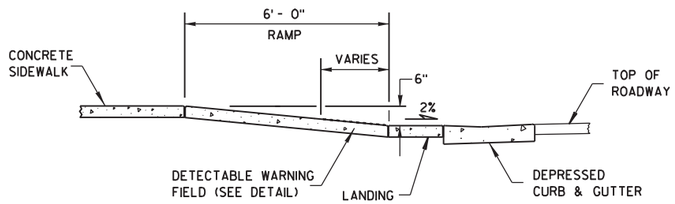
RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

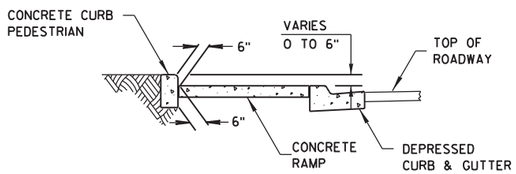
(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW



SECTION B-B



SECTION C-C

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 4A

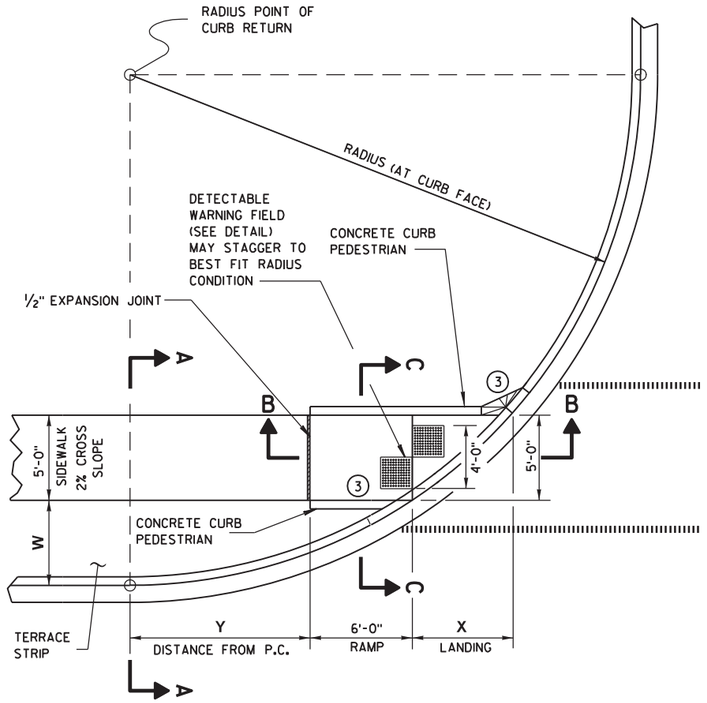
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 8 D 5-14c

6

S.D.D. 8 D 5-14c



CURB RAMP TYPE 4B
PLAN VIEW

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

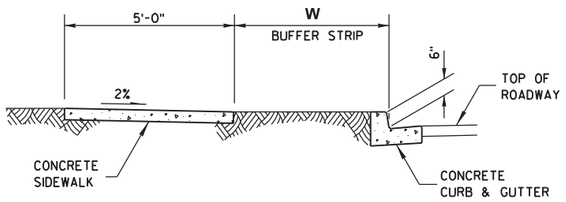
RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

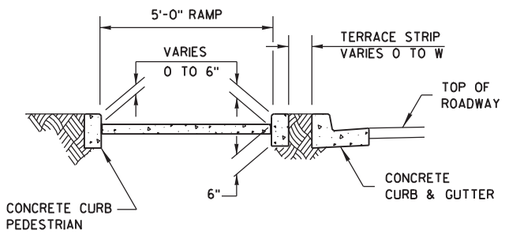
(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-5½"	4'-6½"	4'-8½"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-3½"	3'-1½"	9'-2½"
30 FEET	7'-3¾"	7'-1"	6'-5½"	8'-11½"	5'-9¼"	10'-7"	5'-2½"	12'-0"	4'-8¾"	13'-3¼"
40 FEET	8'-9½"	9'-2½"	7'-10"	11'-5¼"	7'-1"	13'-4½"	6'-5¾"	15'-¾"	5'-11½"	16'-7¼"
50 FEET	10'-¾"	11'-¾"	9'-¼"	13'-7¼"	8'-2½"	15'-9½"	7'-6½"	17'-9"	6'-11¾"	19'-6¼"
60 FEET	11'-2½"	12'-8¾"	10'-¾"	15'-6½"	9'-2¼"	17'-11¾"	8'-5¾"	20'-1¾"	7'-10½"	22'-1½"
70 FEET	12'-2¾"	14'-3¼"	11'-¼"	17'-4"	10'-1"	19'-11¾"	9'-3¾"	22'-4¼"	8'-8¼"	24'-6¼"
80 FEET	13'-2"	15'-8½"	11'-10½"	18'-11¾"	10'-10¾"	21'-10"	10'-1"	24'-4¾"	9'-5"	26'-8¾"
90 FEET	14'- ½"	17'-½"	12'-8¼"	20'-6½"	11'-7¾"	23'-7"	10'-9¾"	26'-3¾"	10'-1¼"	28'-9½"
100 FEET	14'-10½"	18'-3¾"	13'-5½"	22'-0"	12'-4¼"	25'-2¾"	11'-5¾"	28'-1½"	10'-9"	30'-9"

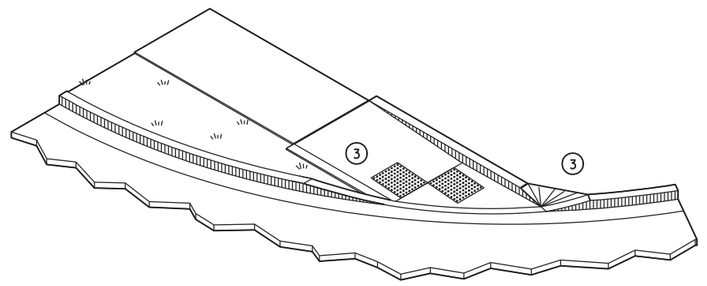
INTERMEDIATE RADII CAN BE INTERPOLATED



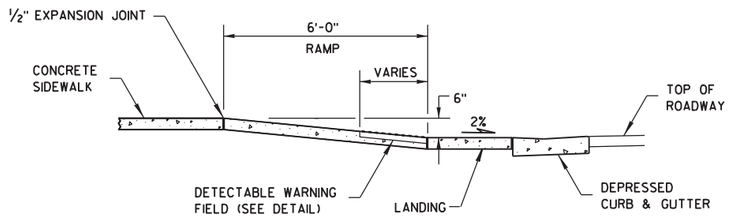
SECTION A-A



SECTION C-C



ISOMETRIC VIEW



SECTION B-B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 4B

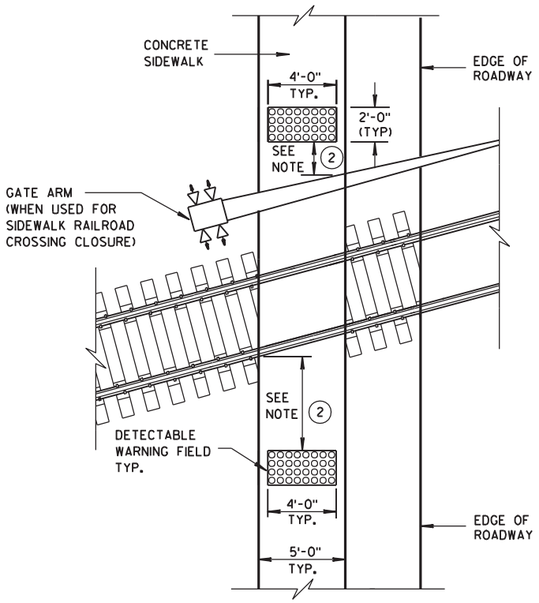
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

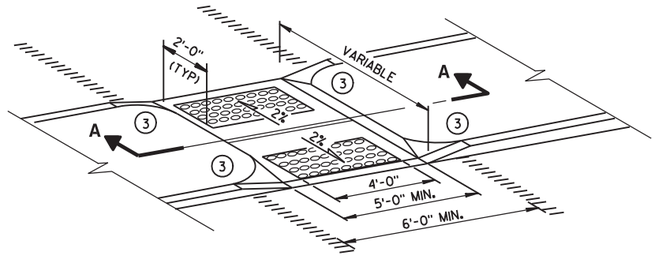
S.D.D. 8 D 5-14d

6

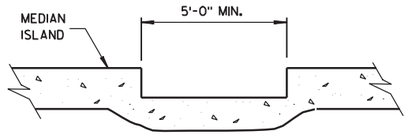
S.D.D. 8 D 5-14d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



MEDIAN ISLAND
NON-ELEVATED CROSSING
TYPE 5



SECTION A-A

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(1) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(2) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

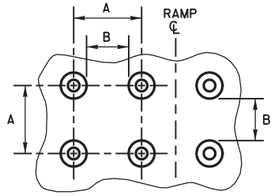
(3) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

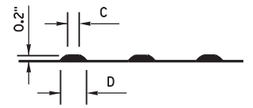
PAVEMENT MARKING CROSSWALK (WHITE)



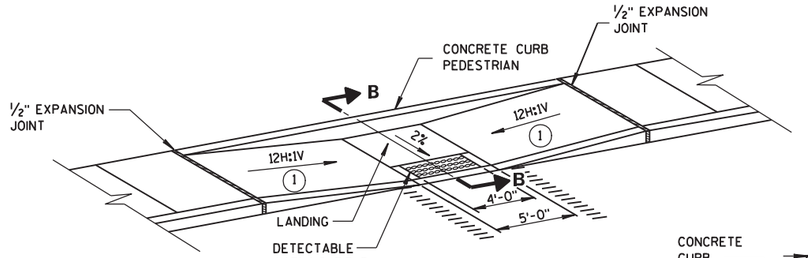
PLAN VIEW

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

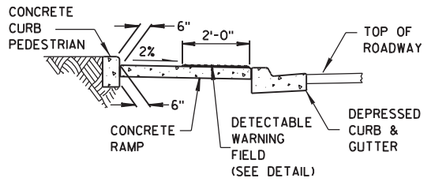
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



ELEVATION VIEW

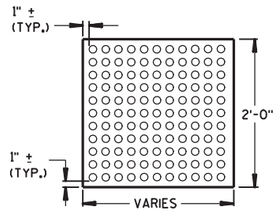


MID-BLOCK CROSSING
TYPE 7A



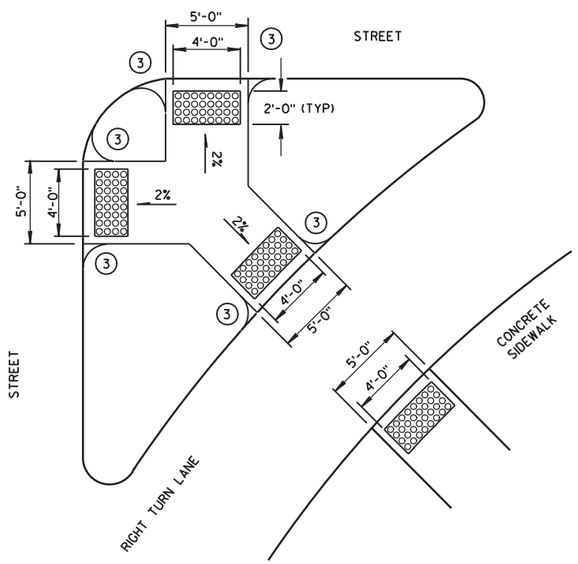
SECTION B-B

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL

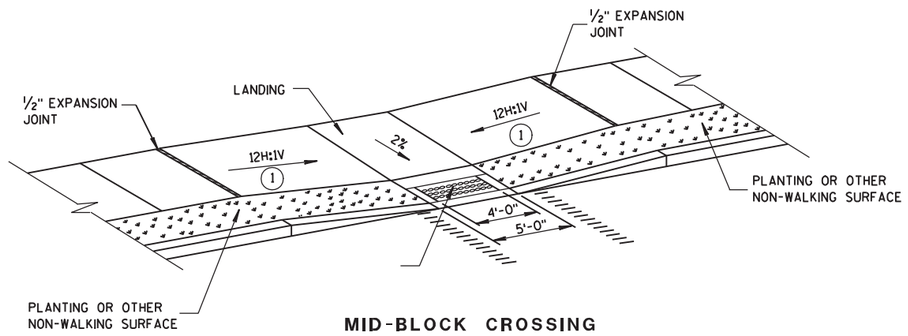


PLAN VIEW

DETECTABLE WARNING FIELD (TYPICAL)



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

2-9-10 — DATE — FHWA

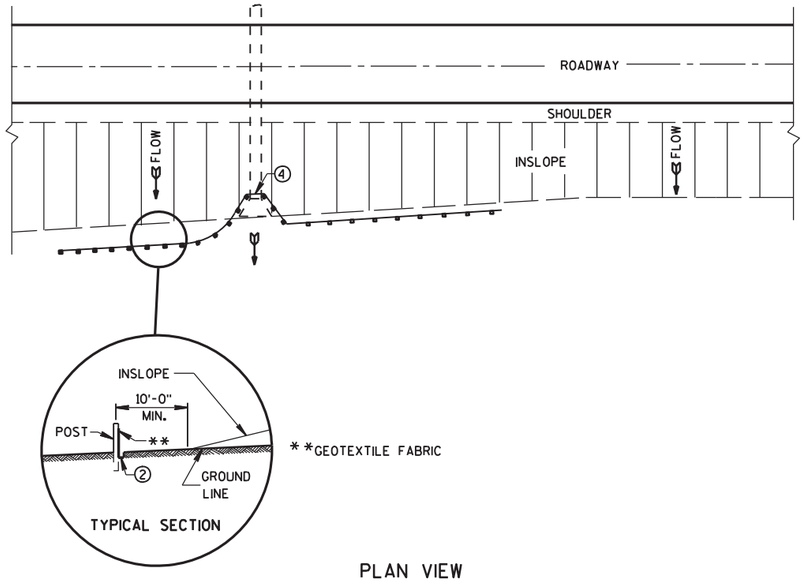
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 8 D 5-14e

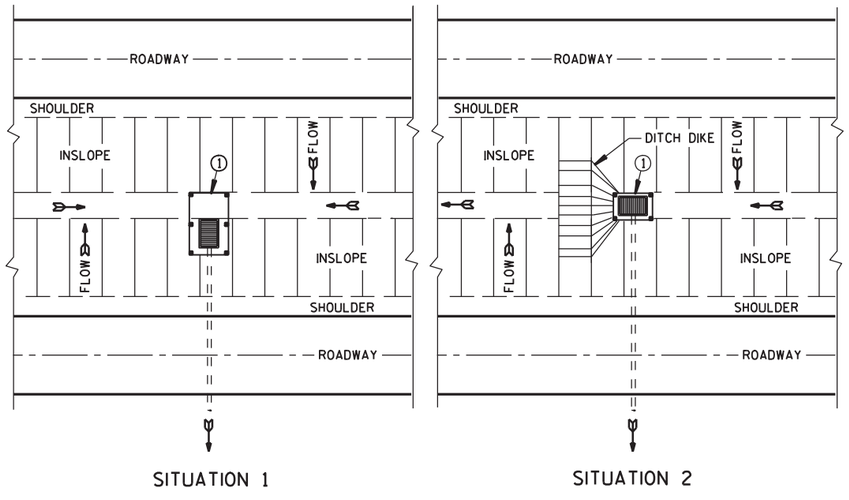
6

S.D.D. 8 D 5-14e



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



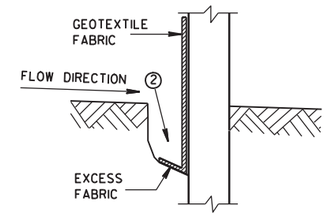
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

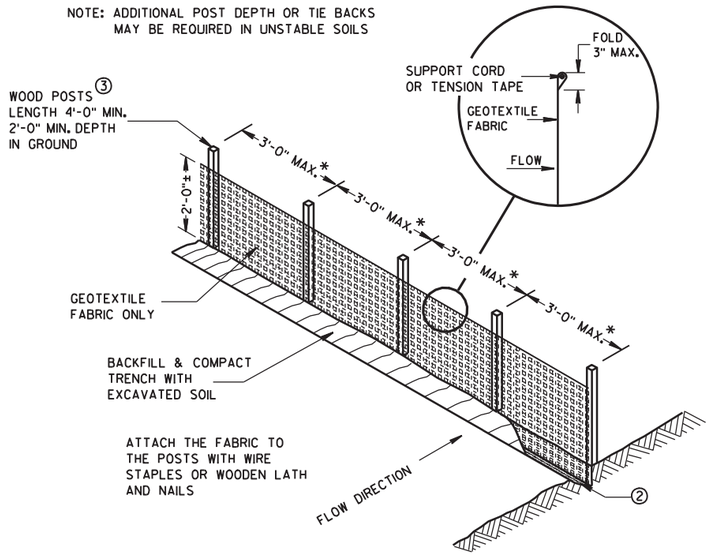
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

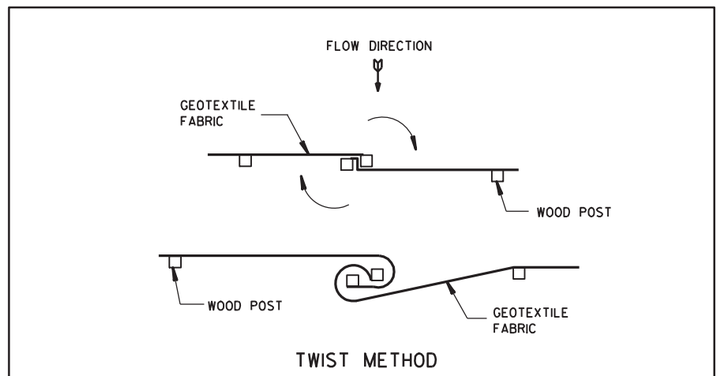
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



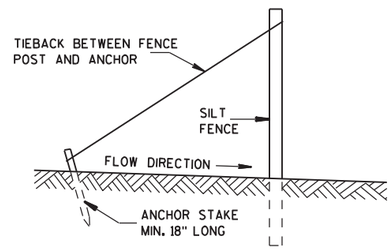
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

6

SILT FENCE

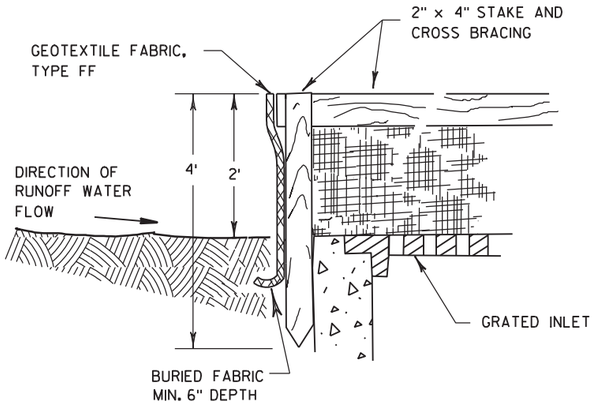
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

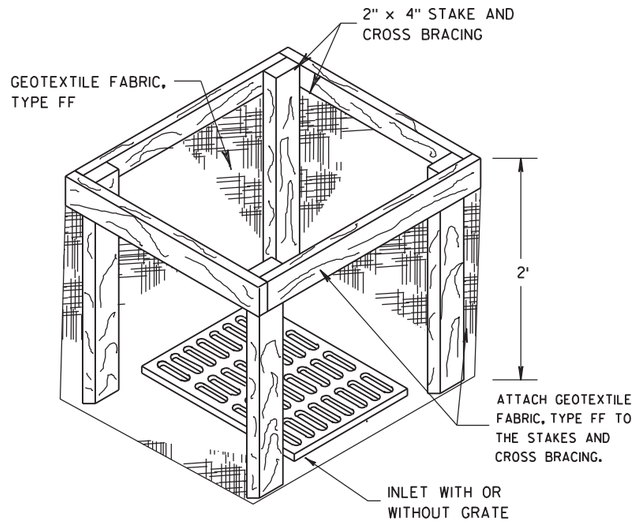
APPROVED
4-29-05
DATE
FHWA

CHIEF ROADWAY DEVELOPMENT ENGINEER

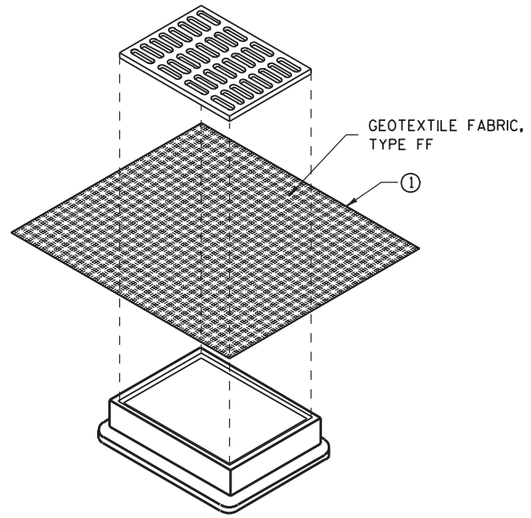
S.D.D. 8 E 9-6

S.D.D. 8 E 9-6



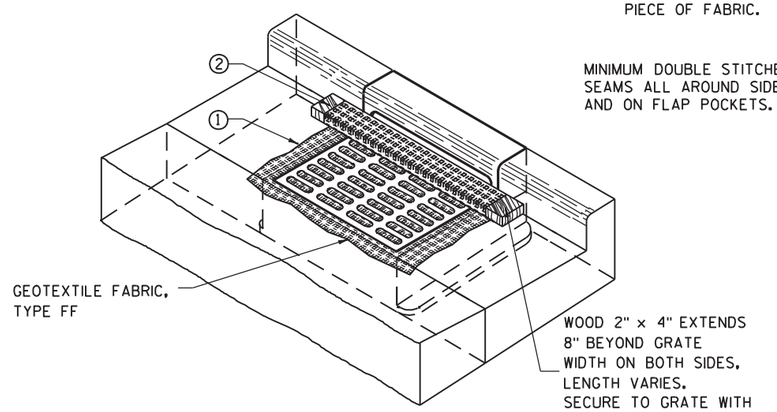


INLET PROTECTION, TYPE A

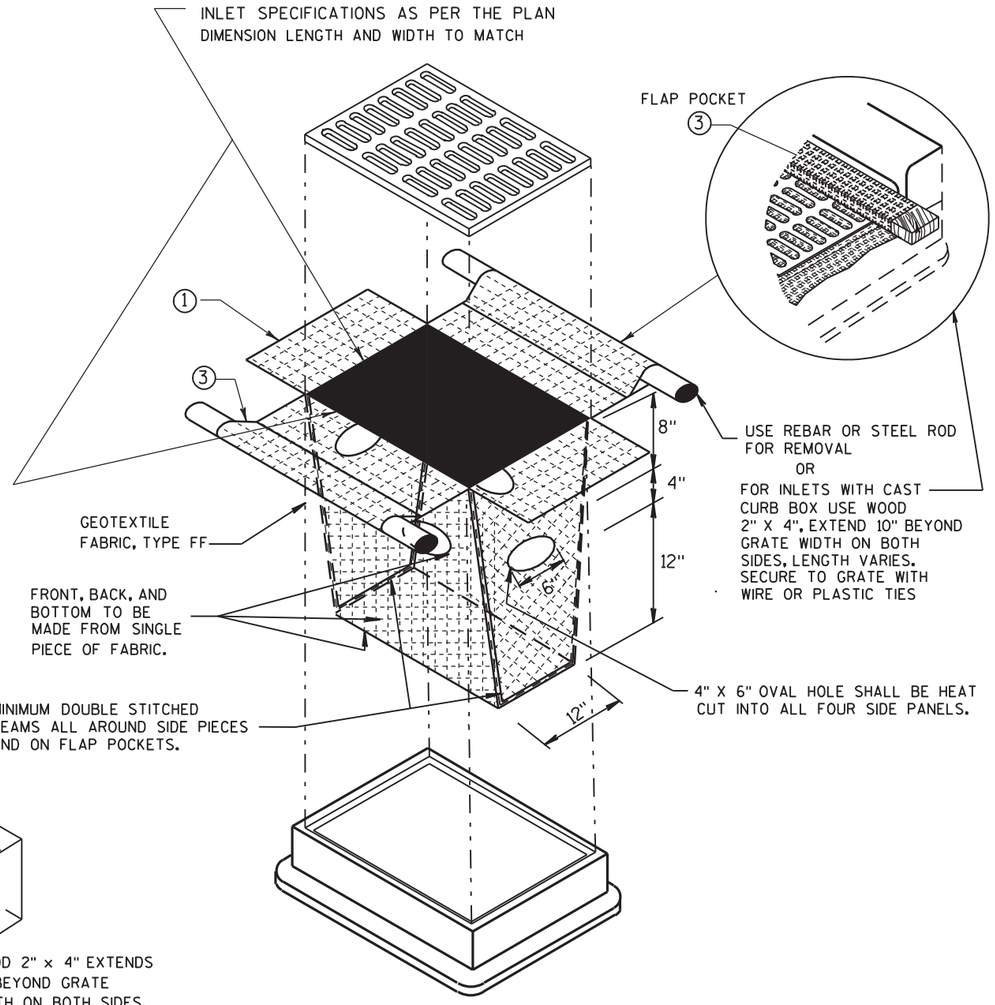


INLET PROTECTION, TYPE B (WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

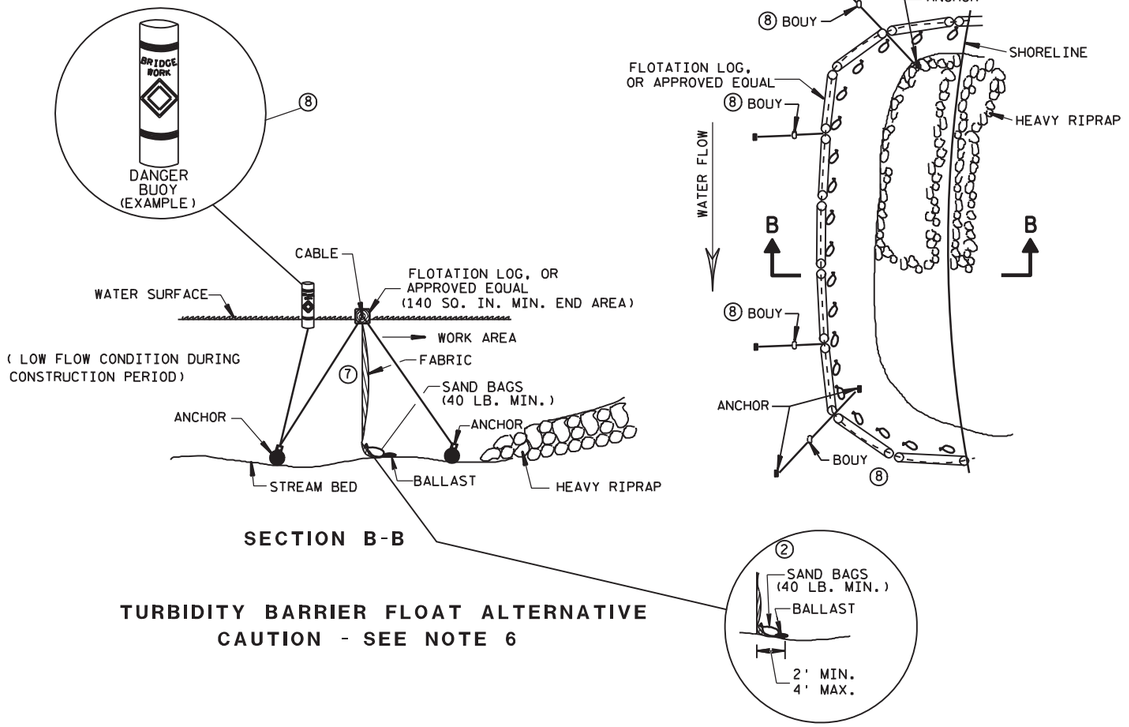
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
FHWA

CHIEF ROADWAY DEVELOPMENT ENGINEER

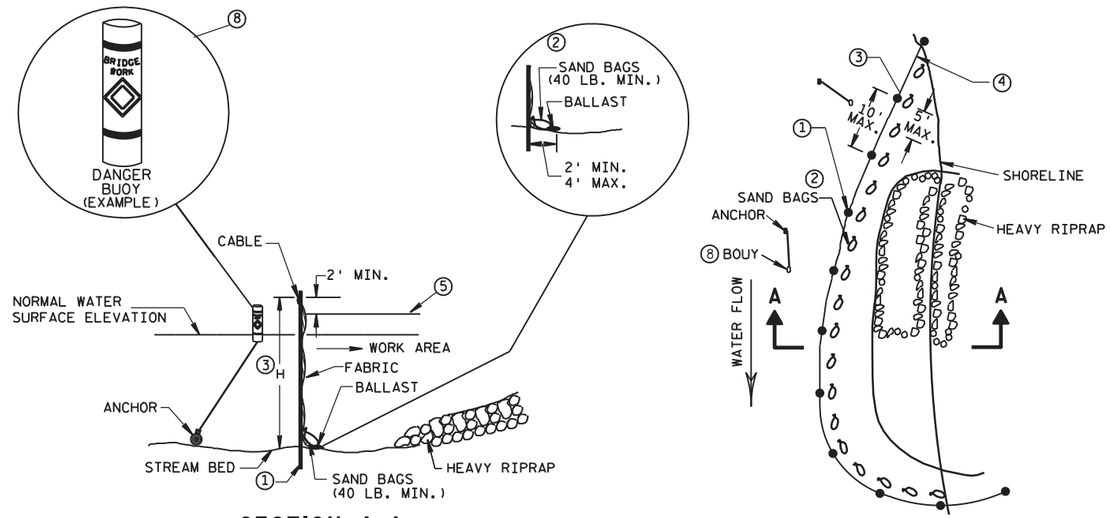
6

S.D.D. 8 E 10-2



SECTION B-B

TURBIDITY BARRIER FLOAT ALTERNATIVE
CAUTION - SEE NOTE 6



SECTION A-A

TURBIDITY BARRIER STANDARD POST INSTALLATION

PLAN VIEW

TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.

② SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.

③ WHEN BARRIER HEIGHT, H, EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.

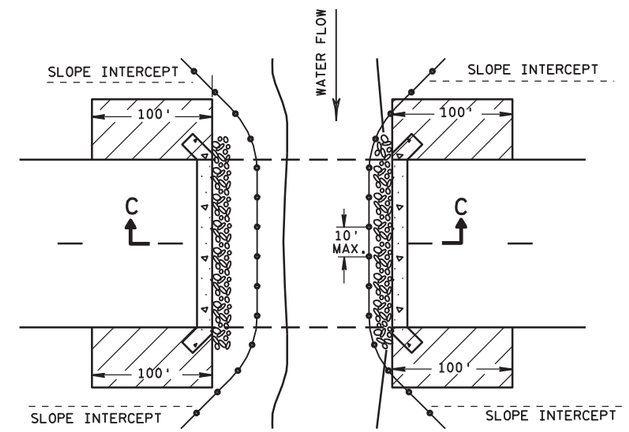
④ IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.

⑤ ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE O2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.

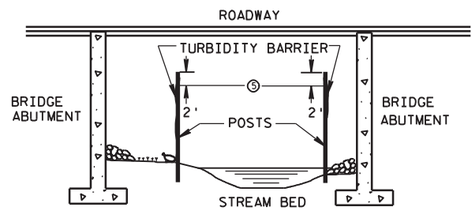
⑥ FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.

⑦ ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.

⑧ USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



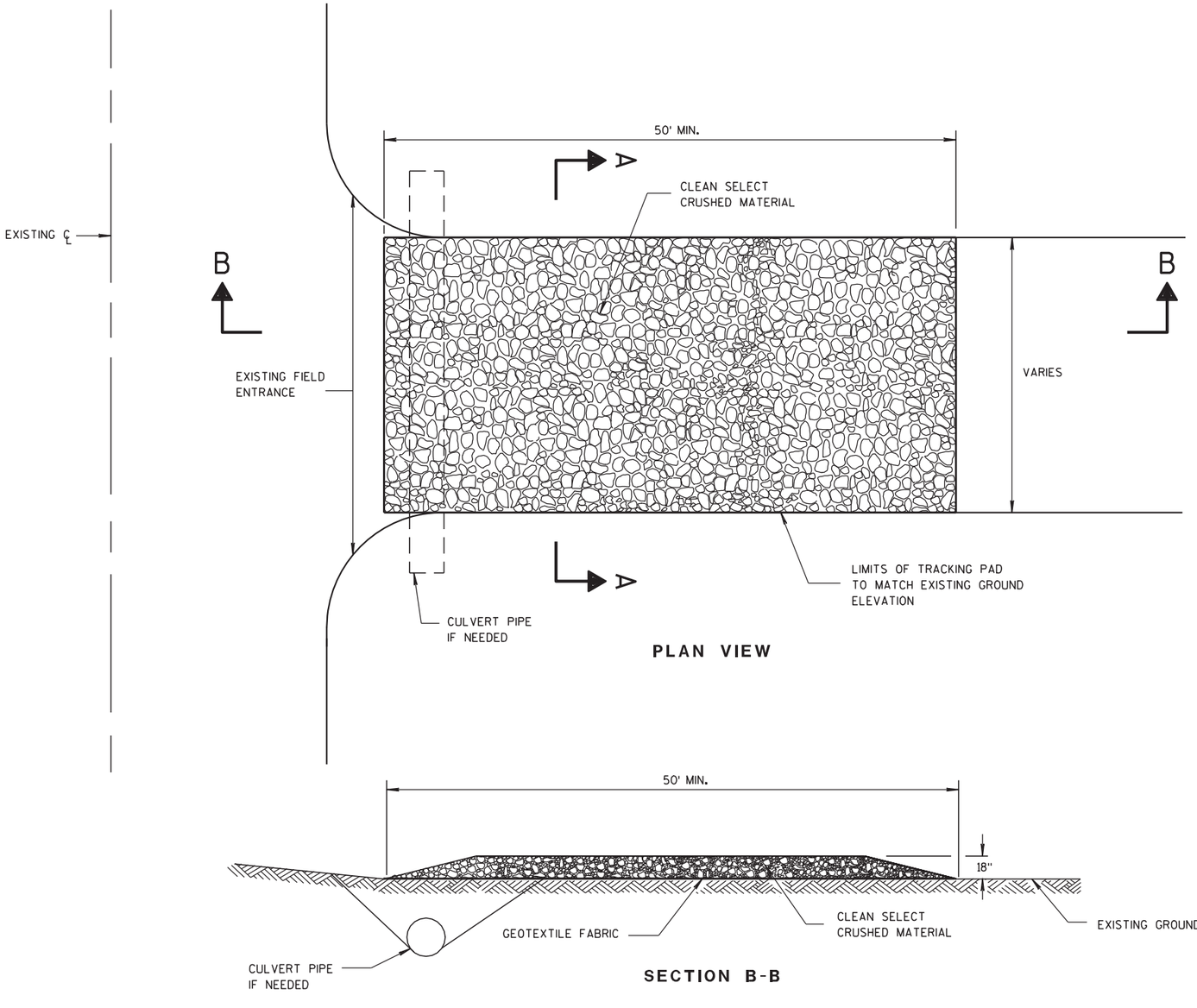
SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/04/02
DATE
FHWA
CHIEF ROADWAY DEVELOPMENT ENGINEER



PLAN VIEW

SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

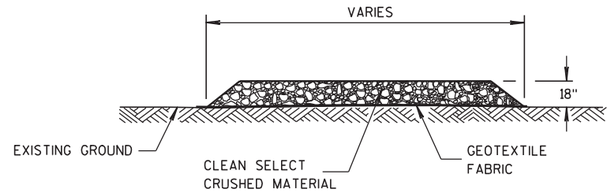
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

TRACKING PAD	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 3/24/2011 DATE FHWA	/S/ Jerry H. Zona ROADWAY STANDARDS ENGINEER
247	ENT

6

S.D.D. 8 E 14-1

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S.D.D. 8 E 14-1

METAL APRON ENDWALLS

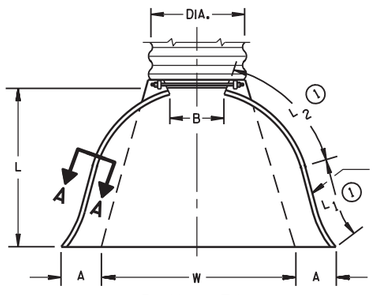
PIPE DIA. (IN.)	MIN. THICK. (inches) STEEL	MIN. THICK. (inches) ALUM.	DIMENSIONS (inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

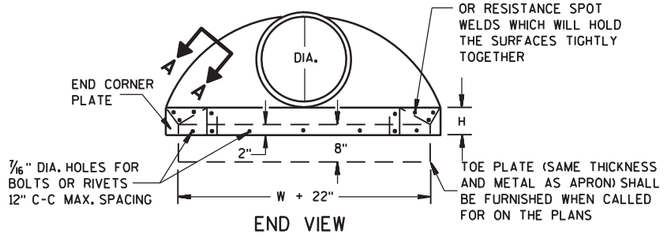
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 7/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 1/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4-35 ** 98 1/4- 100		90	5 1/2	2 2/5 to 1
60	6	* 30-35 **	60	39	99	96	5	2 to 1
66	6 1/2	* 24-30 **	* 72-78 **	* 21-27 **	99	102	5 1/2	2 to 1
72	7	* 24-36 **	78	21	99	108	6	2 to 1
78	7 1/2	* 24-36 **	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

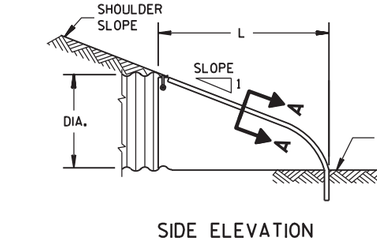
*MINIMUM
**MAXIMUM



PLAN VIEW

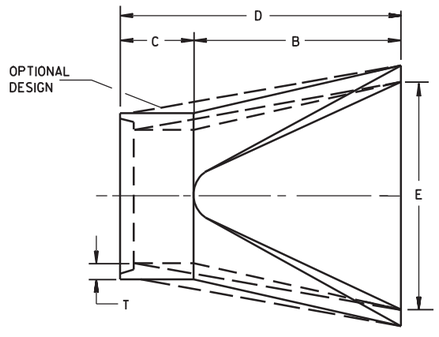


END VIEW

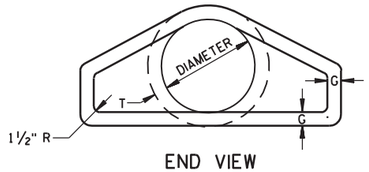


SIDE ELEVATION

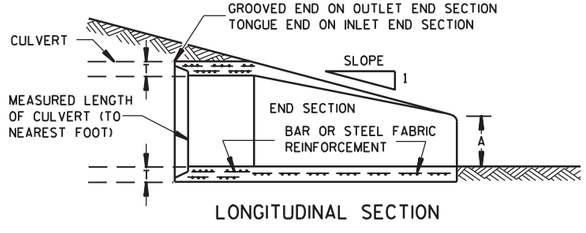
METAL ENDWALLS



PLAN

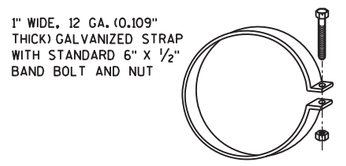


END VIEW



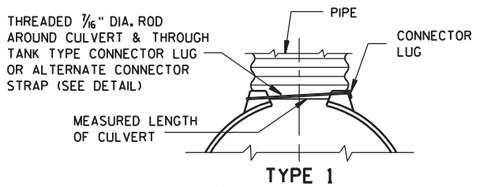
LONGITUDINAL SECTION

CONCRETE ENDWALLS

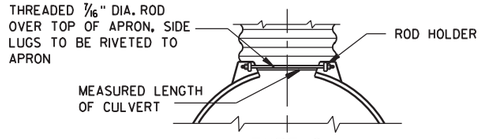


ALTERNATE FOR TYPE 1 CONNECTION

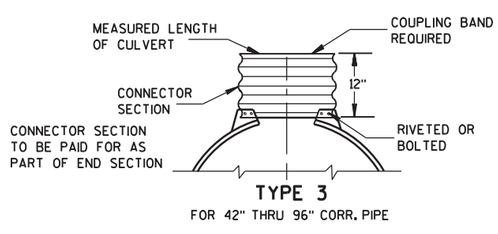
END SECTION CONNECTOR STRAP



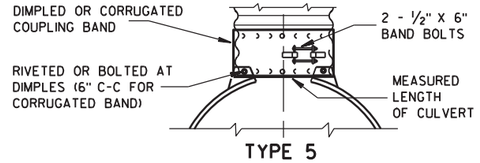
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

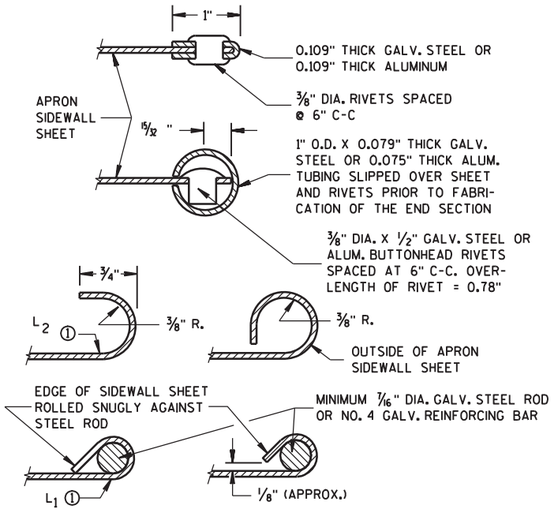
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

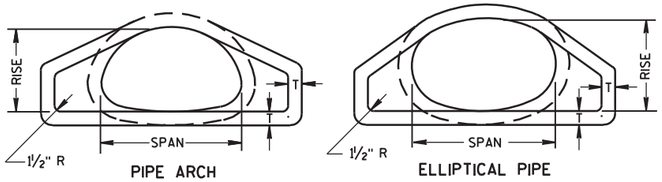
APPROVED
11/30/94
DATE

CHIEF ROADWAY DEVELOPMENT ENGINEER

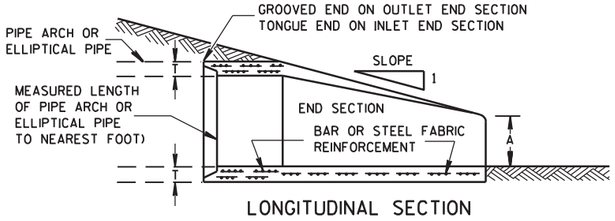
FHWA

6

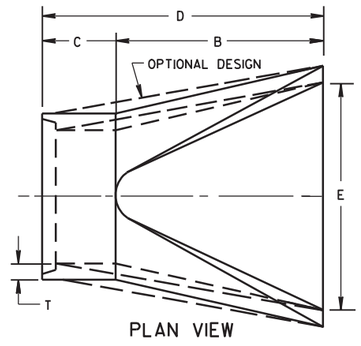
S.D.D. 8 F 1-11



END VIEW

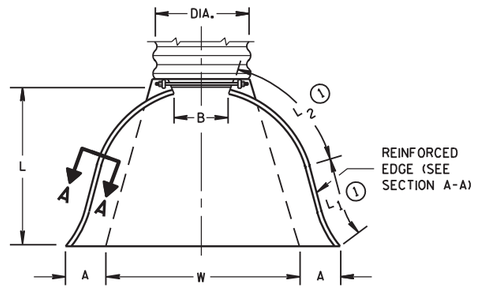


LONGITUDINAL SECTION

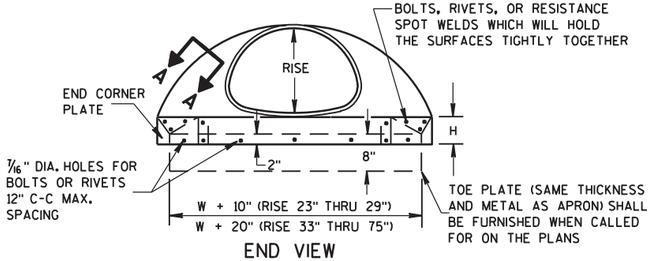


PLAN VIEW

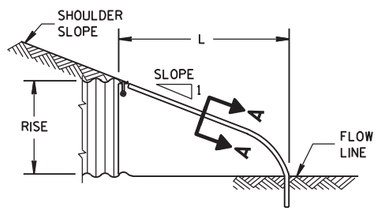
CONCRETE ENDWALLS



PLAN VIEW

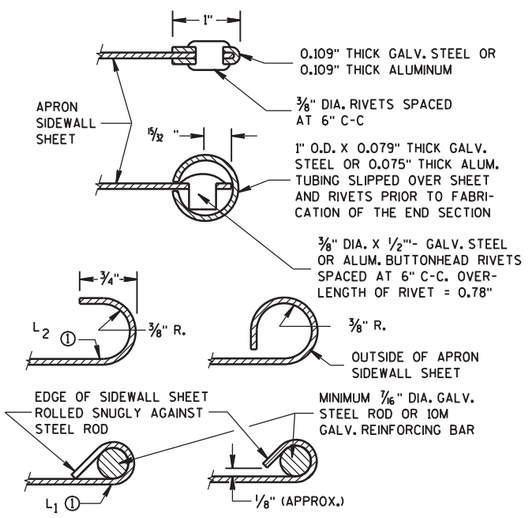


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19⅜	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37⅝	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45⅜	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

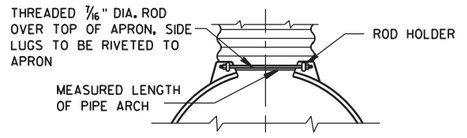
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15⅛	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

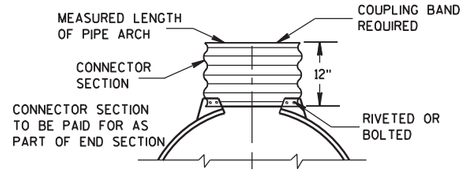
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

** NOMINAL SIZE



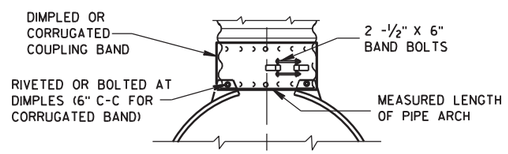
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:
ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

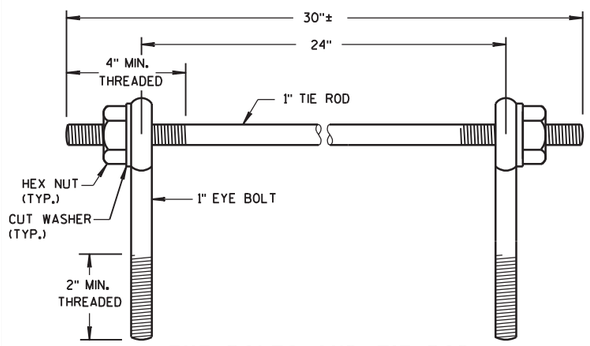
① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

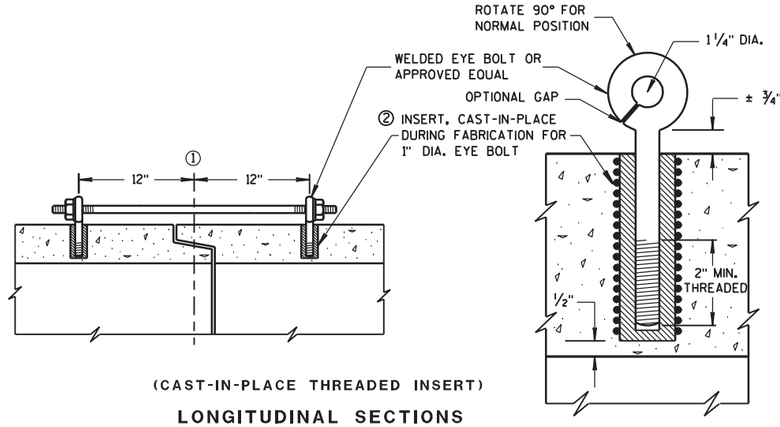
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94
DATE
FHWA

CHIEF ROADWAY DEVELOPMENT ENGINEER



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED ON THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES. UNLESS OTHERWISE STATED IN THE CONTRACT THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE CULVERT PIPE AS INDICTED ON THE PLANS AND BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO CILVERT PIPE, REINFORCED CONCRETE CULVERT PIPE, OR REINFORCED CONCRETE PIPE CATTLE PASS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

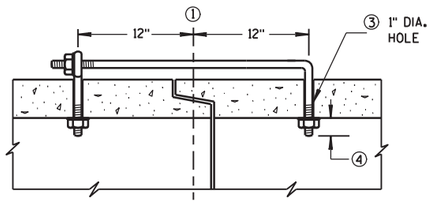
③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

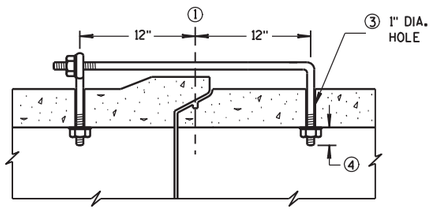
⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)



(TONGUE & GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

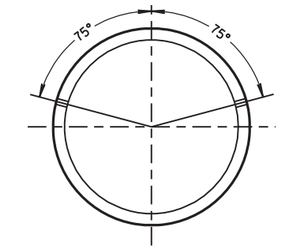
EYE BOLT DIMENSION TABLE

PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	

ADJUSTABLE TIE ROD TABLE

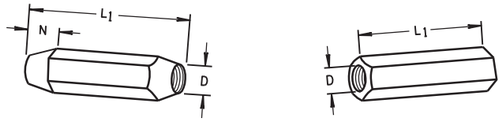
PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

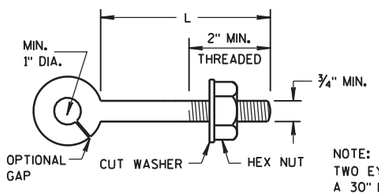
TRANSVERSE SECTION



TAPERED PLAIN

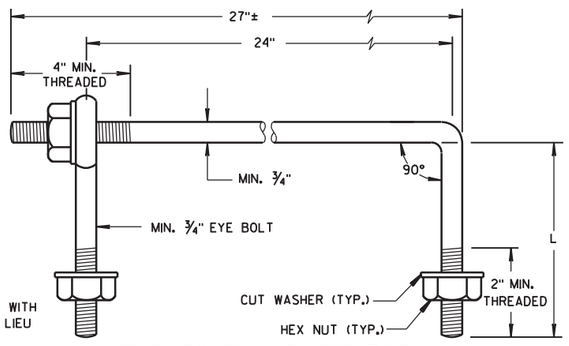
RIGHT AND LEFT THREADS

SLEEVE NUTS



EYE BOLT

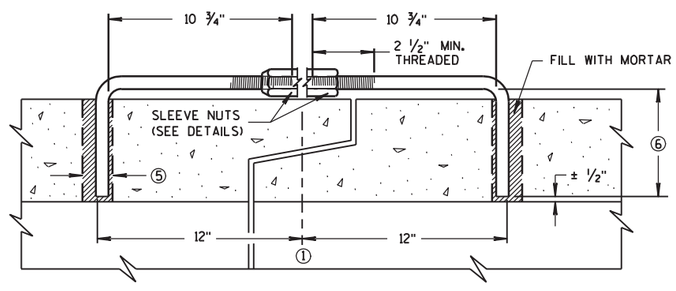
NOTE:
TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)



LONGITUDINAL SECTION

(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)

JOINT TIES FOR CONCRETE PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/17/07
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

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S.D.D. 8 F 4-6

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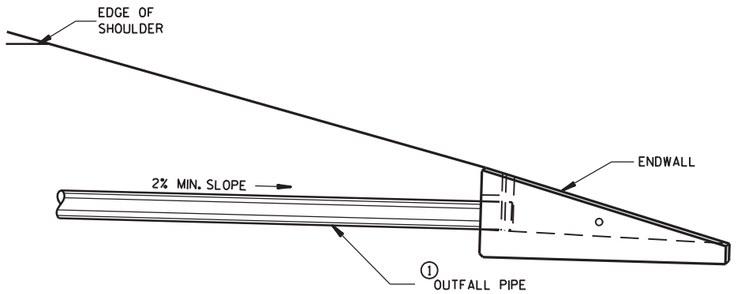
S.D.D. 8 F 4-6

DIMENSIONS IN INCHES											
PIPE DIA.	A	B	C	D	E	F	G	H	J	L	Z
**4	6	12	5 1/4	9	8	32	36	11	2 3/8	6 1/2	4
6	8	14	7 1/4	11	10	42	44	13	3 5/8	8 1/2	6

**APRON ENDWALL FOR 6 INCH DIAMETER PIPE MAY BE SUBSTITUTED FOR THIS SIZE PROVIDED THE HOLE IN THE HEADWALL IS SIZED AND LOCATED TO CONFORM TO THE 4 INCH DIAMETER PIPE DIMENSIONS (C & J)



INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ALTERNATIVE DESIGNS WHICH PROVIDE EQUIVALENT CAPACITY AND STRENGTH MAY BE USED WHEN APPROVED BY THE ENGINEER. ENDWALL MAY BE EITHER PRECAST OR CAST-IN-PLACE CONCRETE.

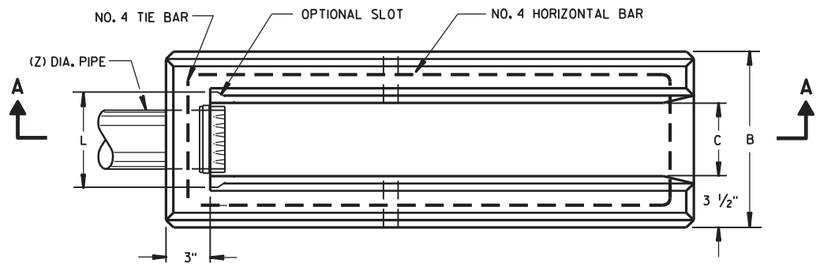
THE UNDERDRAIN PIPE SHALL BE FULLY INSERTED AND SEALED INTO THE ENDWALL WITH CEMENT MORTAR PRIOR TO BACKFILLING AROUND THE STRUCTURE.

THE UPPERMOST POINT OF THE ENDWALL SHALL BE PLACED FLUSH WITH THE ROADWAY SLOPE. ADJACENT EMBANKMENT SLOPES SHALL BE SHAPED TO FIT THE SIDES AND TOE OF THE ENDWALL. EXACT PLACEMENT OF THE OUTFALL PIPE AND ENDWALL SHALL BE DETERMINED BY THE ENGINEER TO MATCH THE ELEVATIONS AND FLOW DIRECTION OF THE ROADSIDE DITCH.

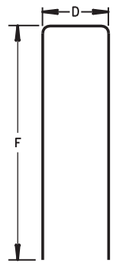
① THE OUTFALL PIPE UNDERDRAIN AND FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF THE SPECIFICATION FOR POLY (VINYL CHORIDE) (PVC) PLASTIC DRAIN, WASTE AND VENT PIPE AND FITTINGS, ASTM DESIGNATION: D 2665, SCHEDULE 40 PVC OR THE STANDARD SPECIFICATION FOR TYPE PSM POLY (VINYL CHORIDE) (PVC) SEWER PIPE AND FITTINGS, ASTM DESIGNATION: D 3034, TYPE PSM SDR 23.5 PVC SEWER PIPE, ALL JOINTS SHALL BE SOLVENT WELDED.

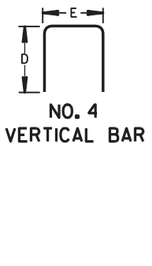
THE OUTFALL PIPE INCLUDING ALL FITTINGS AND THE RODENT SHIELD SHALL BE MEASURED AND PAID FOR AS PIPE UNDERDRAIN UNPERFORATED.

② THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

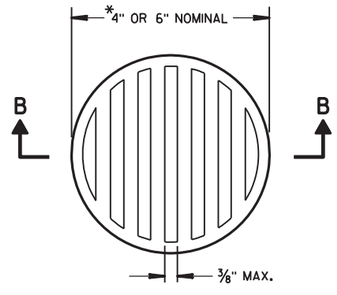


PLAN VIEW

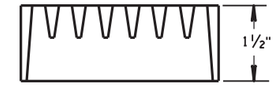




BAR STEEL REINFORCEMENT DETAILS



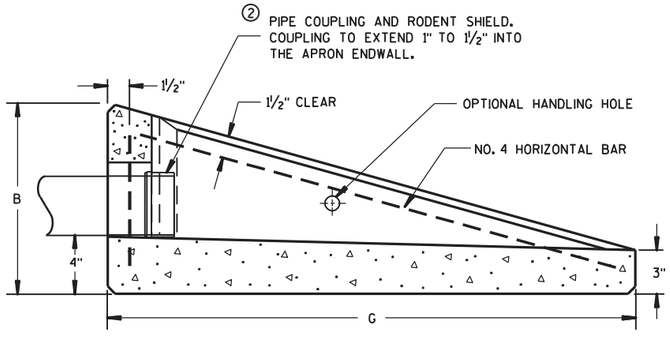
NOTE: ORIENT SHIELD SO SLOTS ARE VERTICAL.



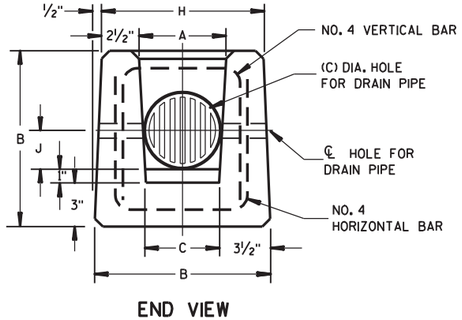
SECTION B-B

② RODENT SHIELD

*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.



SECTION A-A



END VIEW

CONCRETE APRON ENDWALL FOR UNDERDRAIN

REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

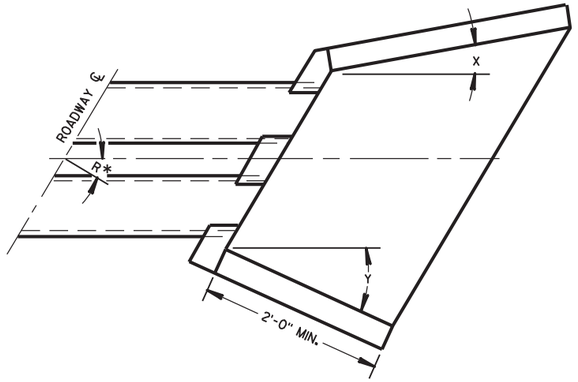
APPROVED
3/10/98
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 6-4

6

S.D.D. 8 F 6-4



WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

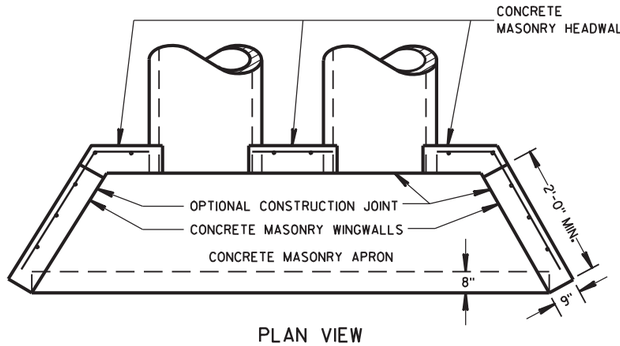
FILL SLOPES FLATTER THAN 2 ½:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

(1) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

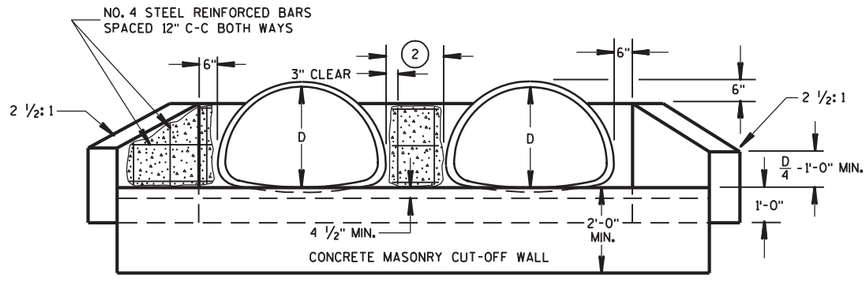
(2) THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	½ DIA. OR SPAN
OVER 72"	3'-0"



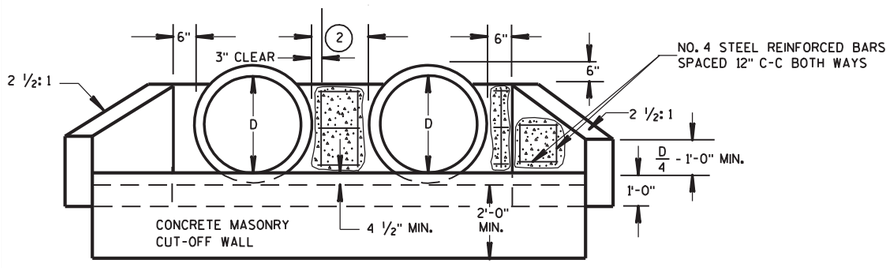
PLAN VIEW

CULVERT PIPE AND PIPE ARCH



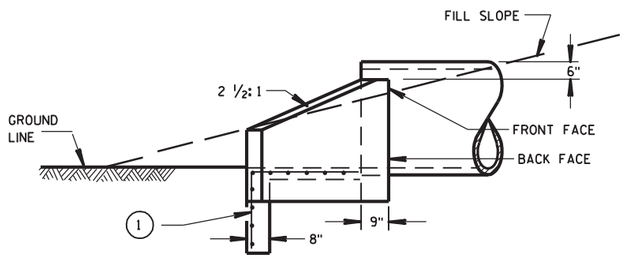
END ELEVATION

PIPE ARCH



END ELEVATION

CULVERT PIPE



SIDE ELEVATION

CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

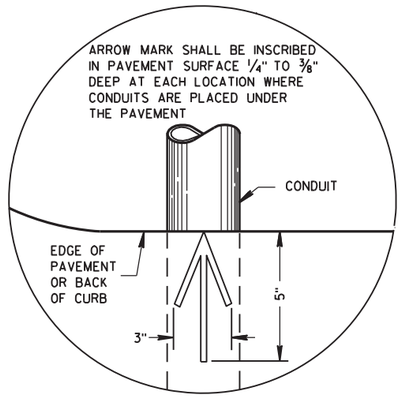
APPROVED
9/14/98
DATE

CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

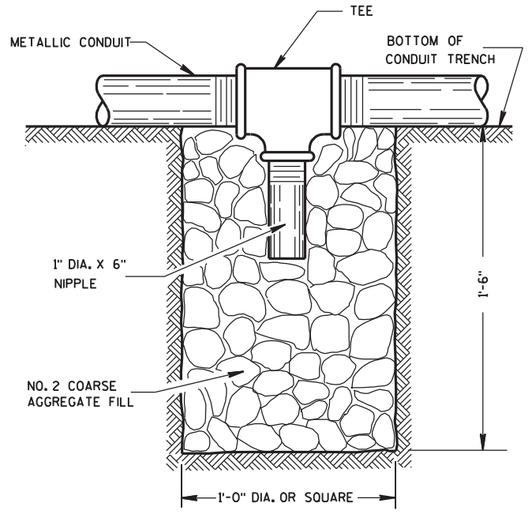
6

S.D.D. 8 F 10-1



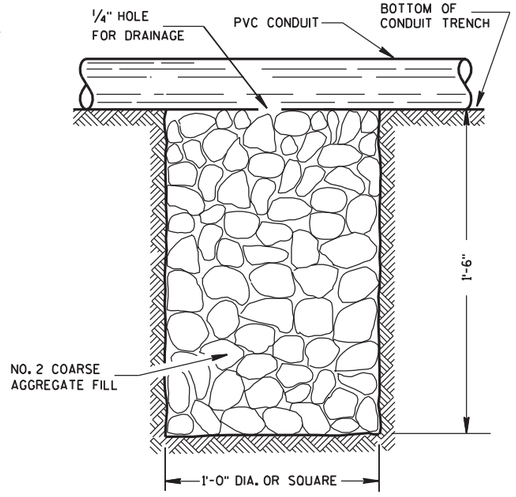
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

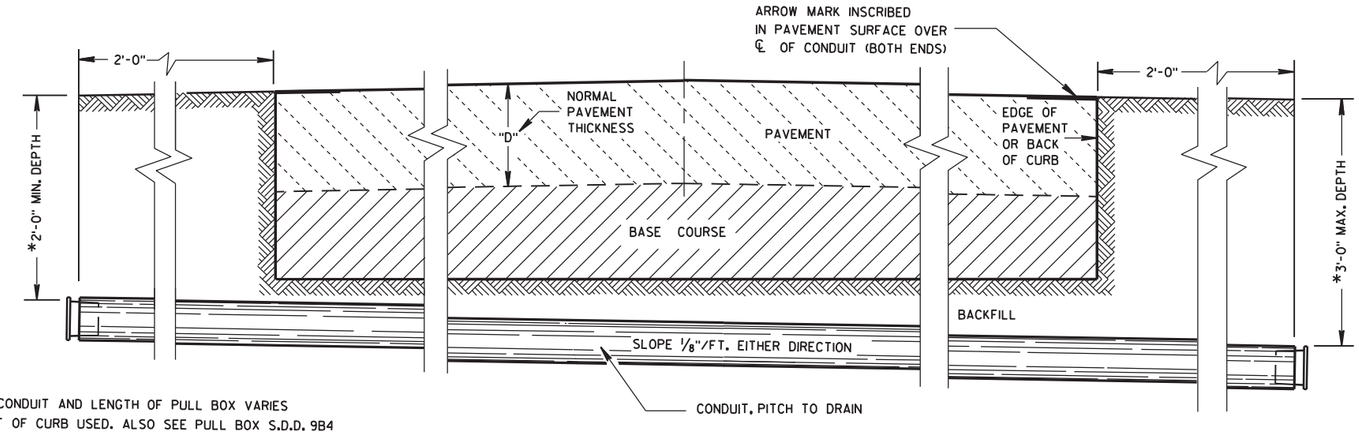
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/23/03
DATE
FHWA

STATE ELECTRICAL ENGINEER FOR HIGHWAYS

6

S.D.D. 9 B 2-7

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE. THE MECHANICAL CONNECTION (INSIDE AND OUTSIDE) TO THE PULL BOX, SHALL BE TOTALLY AND PERMANENTLY SEALED WITH A SILICONE OR RUBBERIZED CAULKING COMPOUND AS APPROVED BY THE ENGINEER.

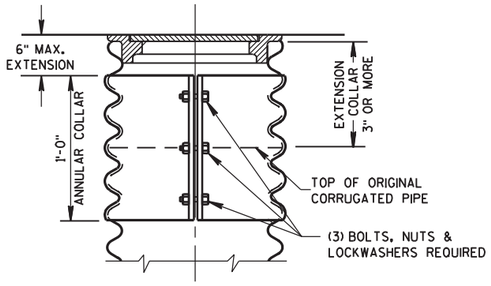
GROUNDING LUGS ARE NOT REQUIRED IN PULL BOXES WHEN VOLTAGES OF LESS THAN 50 VOLTS AC ARE THE ONLY VOLTAGES ENCOUNTERED IN THE BOXES.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

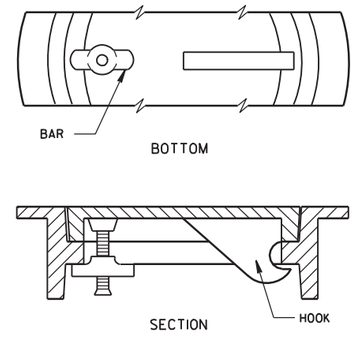
S.D.D. 9B2, "CONDUIT", APPLIES TO THIS DRAWING.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

IF PULL BOX EQUIPMENT GROUNDING IS REQUIRED USING AN EQUIPMENT GROUNDING ELECTRODE IN EACH PULL BOX, THE EQUIPMENT GROUNDING ELECTRODE SHALL BE 5/8" X 8'-0", COPPERCLAD AND BE EXOTHERMICALLY WELDED TO A #4 AWG. COPPER, STRANDED WIRE (BARE OR GREEN INSULATED). THE #4 AWG WIRE SHALL BE 4 FEET IN LENGTH, NEATLY COILED, TAPED AND AVAILABLE FOR USE WHEN REQUIRED.

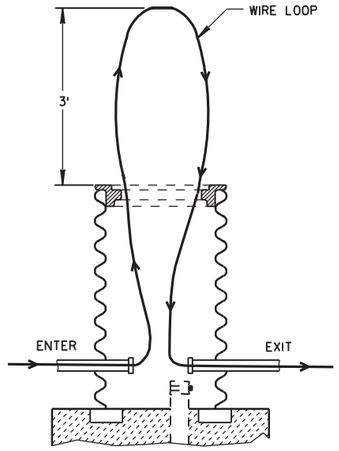


CORRUGATED PIPE EXTENDER

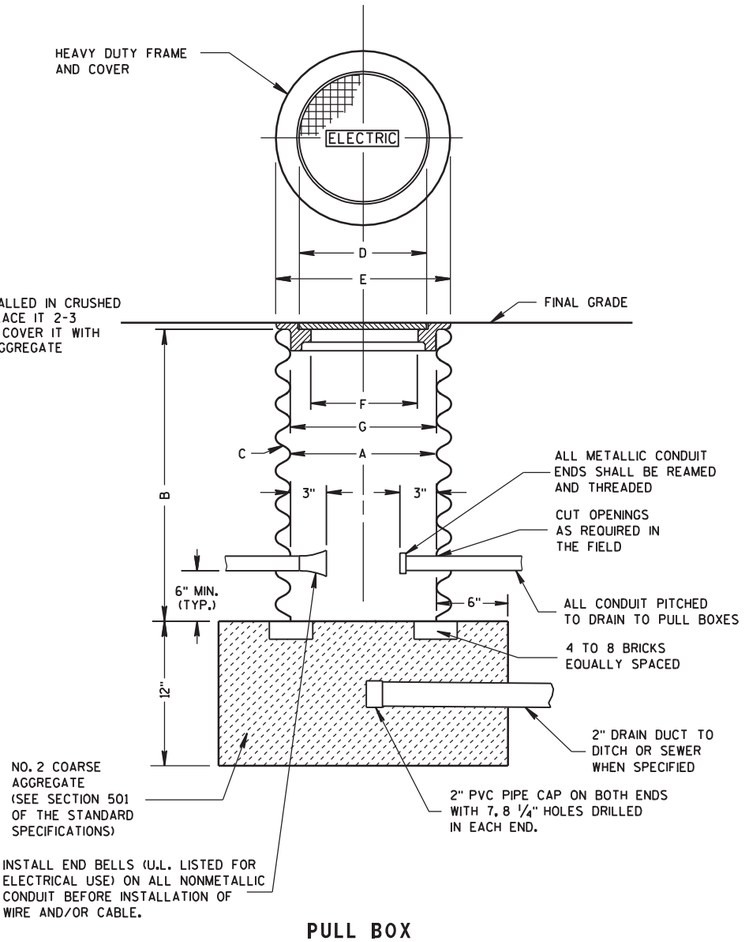


ALTERNATE COVER (LOCKING)

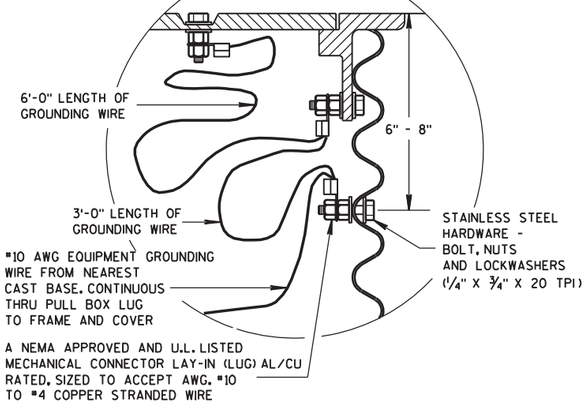
TIGHTENING BAR TYPE



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

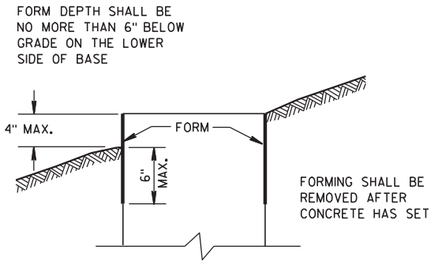
PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/27/06 — DATE
/S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA

6

S.D.D. 9 B 4-9



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2 AND TYPE 5 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-449, OR ASTM A-687 (GRADE 105).

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

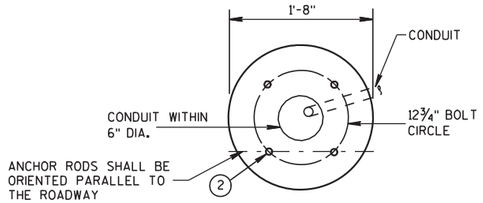
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

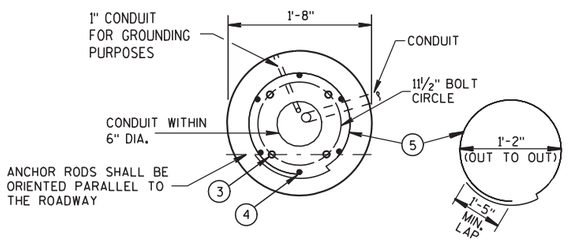
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

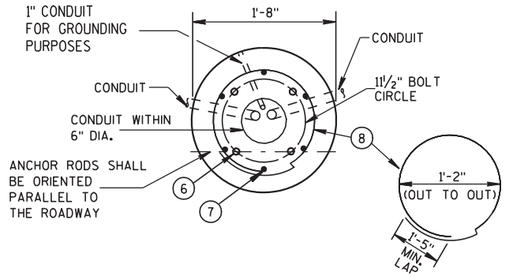
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

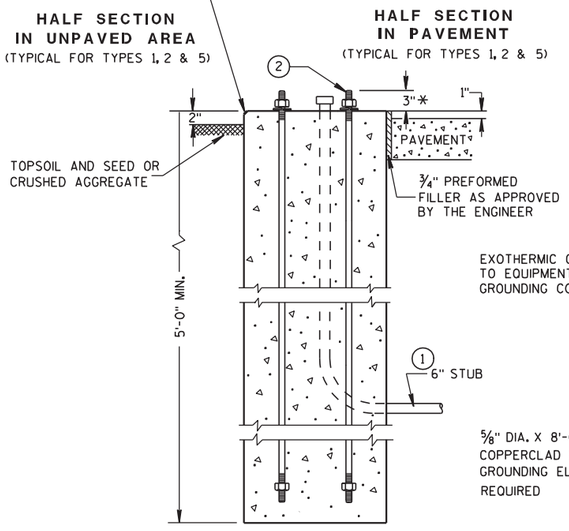
(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

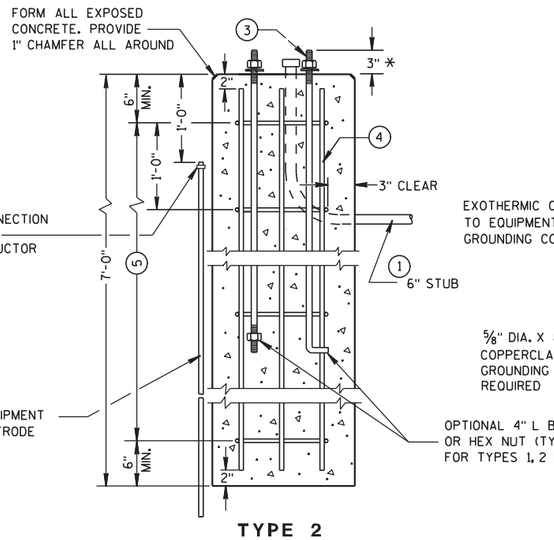
(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

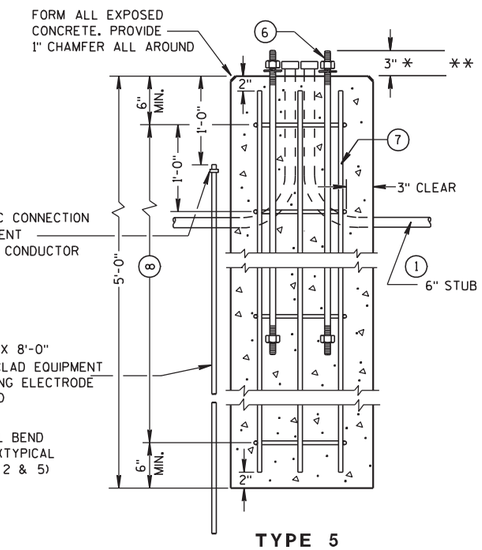












CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2 & 5

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/3/10	/S/ Joanna L. Bush
DATE	STATE ELECTRICAL ENGINEER FOR HIGHWAYS

FHWA

6

S.D.D. 9 C 2-6

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-325, (92,000 YIELD) HEAVY HEX NUT AND BE GALVANIZED IN ACCORDANCE WITH ASTM A-153, CLASS C.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED AND U.L. LISTED MECHANICAL CONNECTOR (LUG) AL/CU RATED AND SIZED TO ACCEPT #10 AWG STRANDED WIRE, SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

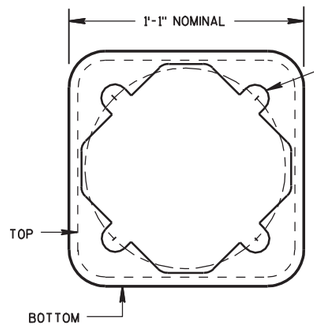
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

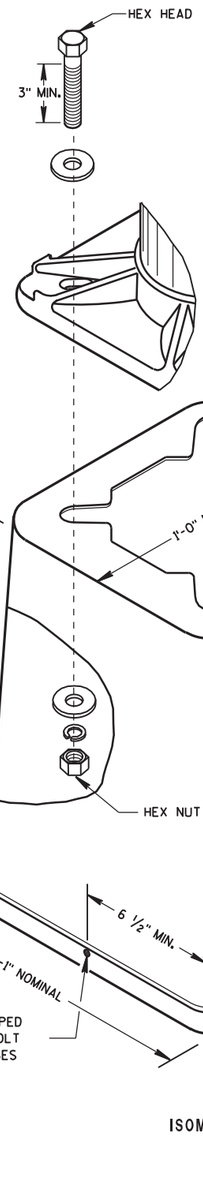
PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

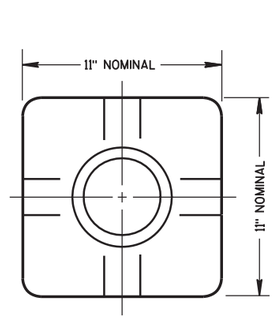
THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.



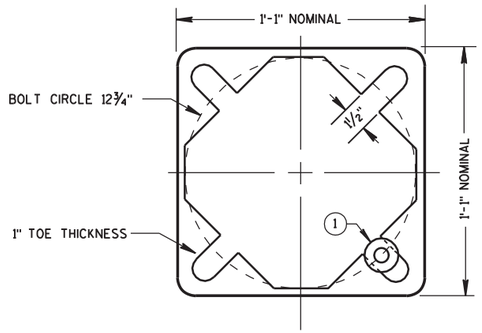
BOTTOM VIEW
(TRANSFORMER BASE)



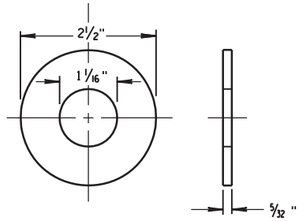
ISOMETRIC VIEW



TOP VIEW
(PEDESTAL BASE)

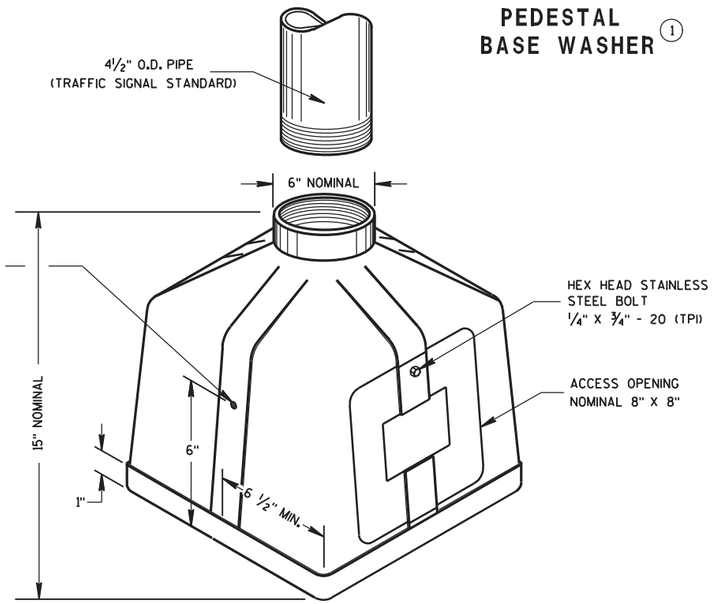


BOTTOM VIEW
(PEDESTAL BASE)



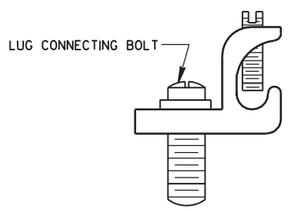
ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)



ISOMETRIC VIEW

PEDESTAL BASE

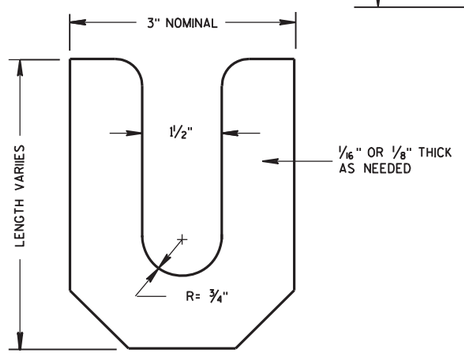


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 10/27/09 DATE FHWA	/S/ Joanna L. Bush STATE ELECTRICAL ENGINEER FOR HIGHWAYS

6

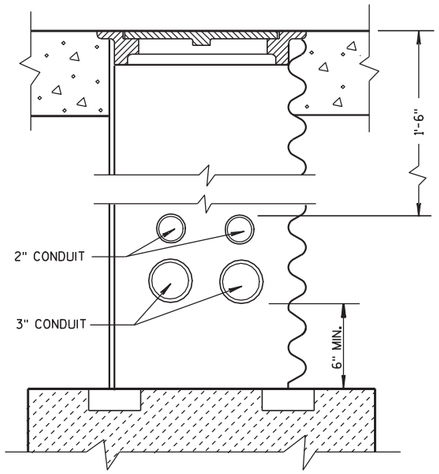
S.D.D. 9 C 3-3

6

S.D.D. 9 C 3-3

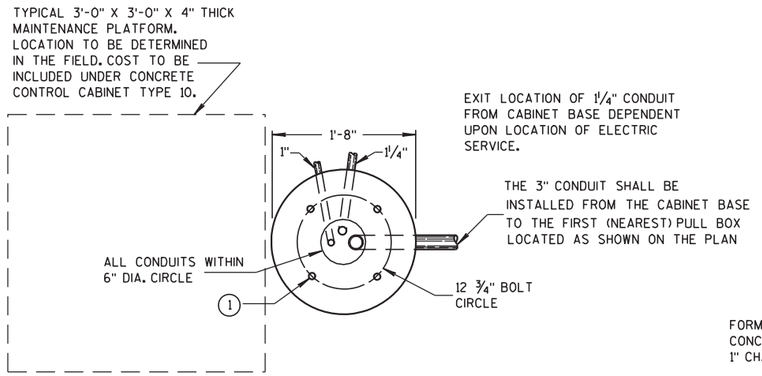
CONTROL CABINET BASE TYPE	DIMENSIONS				C.Y. CONCRETE (APPROX.)
	H	I	J	K	
TYPE 6 - 30" CABINET	34"	60"	10"	17"	.64
TYPE 7 - 38" CABINET	42"	60"	10"	21"	.93
TYPE 8 - 38" CABINET	42"	72"	12"	21"	1.29
TYPE 9 - VARIABLE	54"	72"	14"	27"	1.56
TYPE 10 - POST MOUNT	AS SHOWN				.65 *

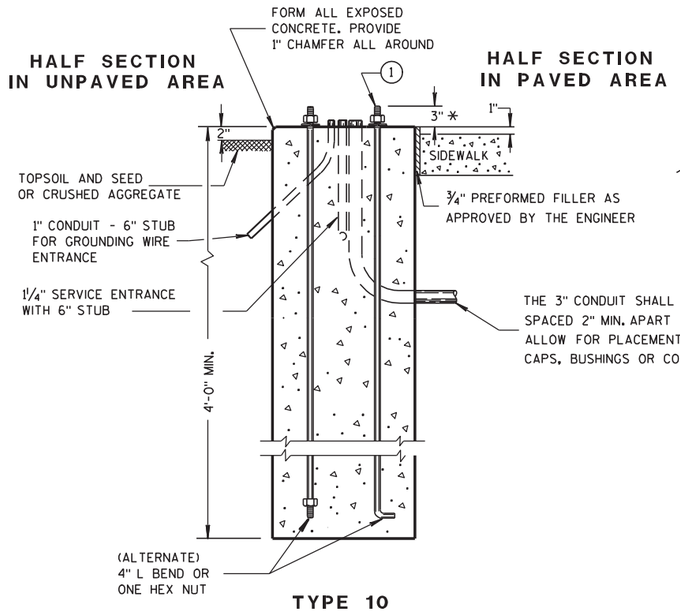
* INCLUDES MAINTENANCE PLATFORM.



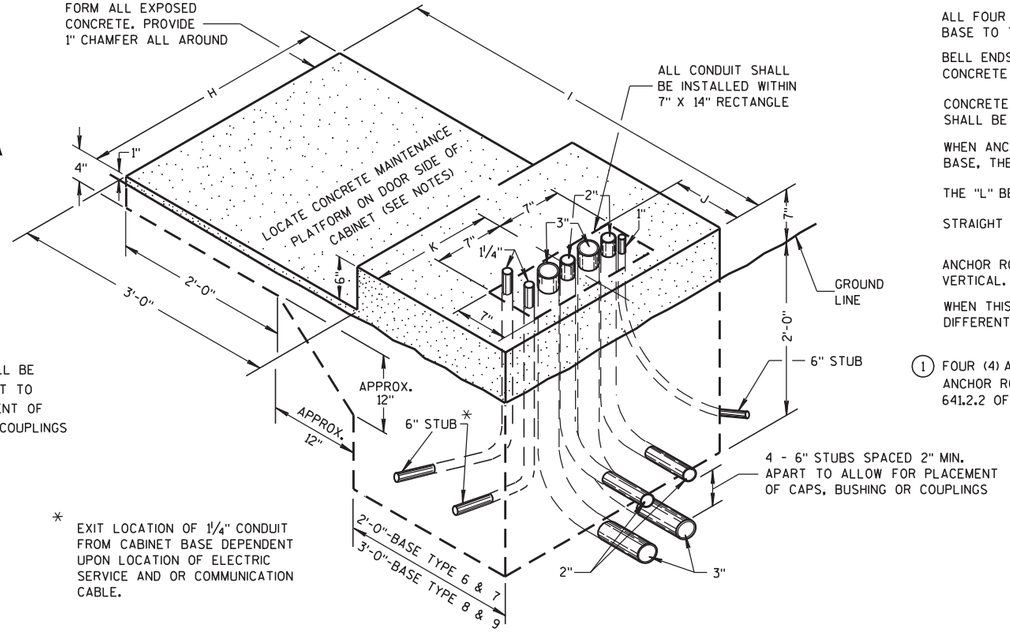
CONDUIT LOCATIONS IN 24" X 36" PULL BOX

(LEADING TO CONTROLLER CABINET BASE TYPE 6, 7, 8 AND 9)





TYPE 10



* EXIT LOCATION OF 1¼" CONDUIT FROM CABINET BASE DEPENDENT UPON LOCATION OF ELECTRIC SERVICE AND OR COMMUNICATION CABLE.

TYPE 6,7,8 AND 9
(ISOMETRIC VIEW)

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 36" SQUARE 4" THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 1 INCH SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

ALL FOUR (TWO INCH AND THREE INCH) CONDUIT SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST PULL BOX LOCATED AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

WHEN ANCHOR RODS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 4" L BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

STRAIGHT ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WHEN THIS DRAWING IS USED FOR STREET LIGHTING CABINET BASES, CONDUIT MAY BE DIFFERENT AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

(1) FOUR (4) ANCHOR RODS, 1" DIA. X 3'-6"
ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS.

CONCRETE CONTROL CABINET BASES

CONCRETE CONTROL CABINET BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

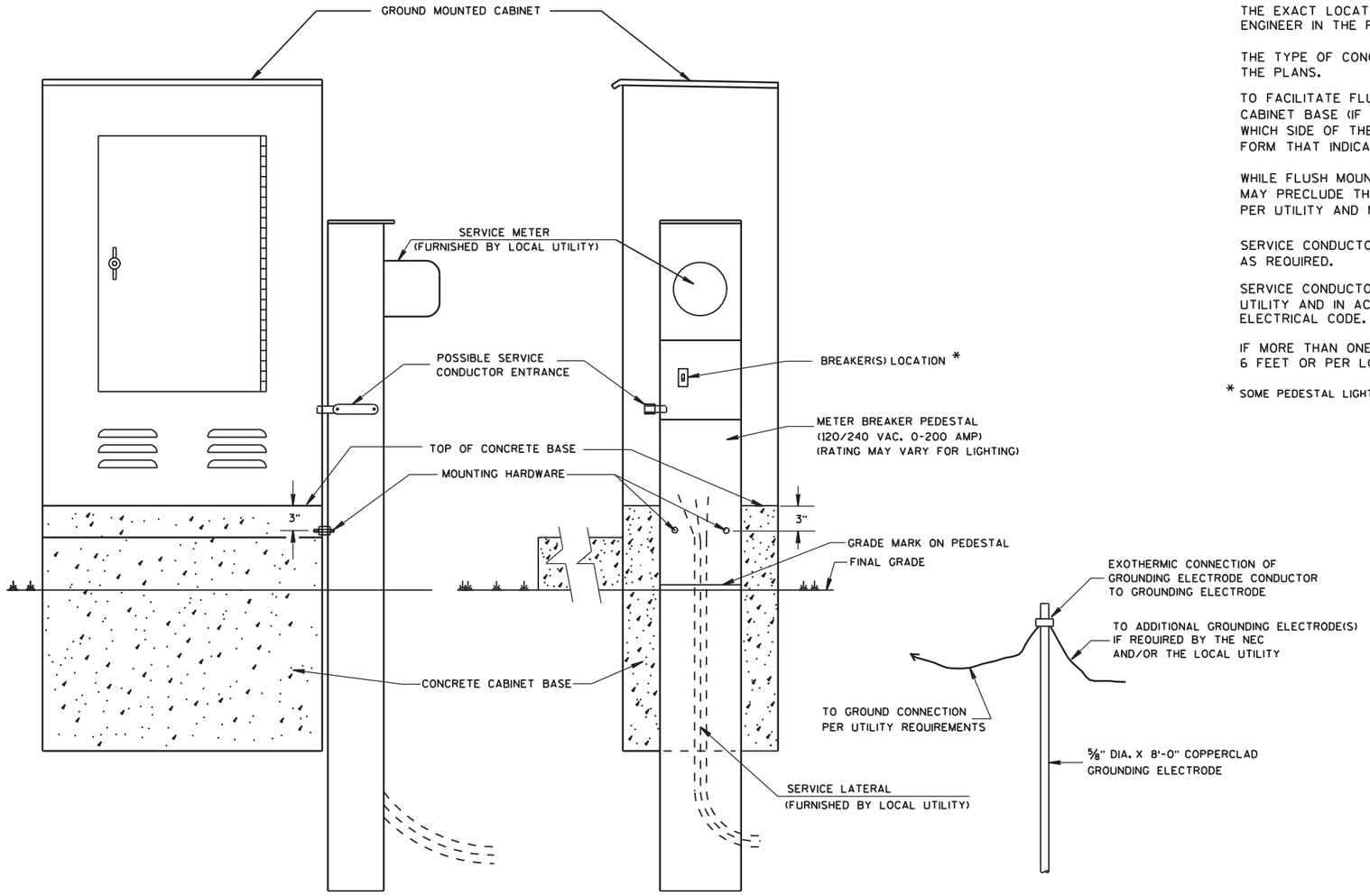
APPROVED
3/3/10 — DATE
/S/ Joanna L. Bush — STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA

6

S.D.D. 9 C 5-7

6

S.D.D. 9 C 5-7



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

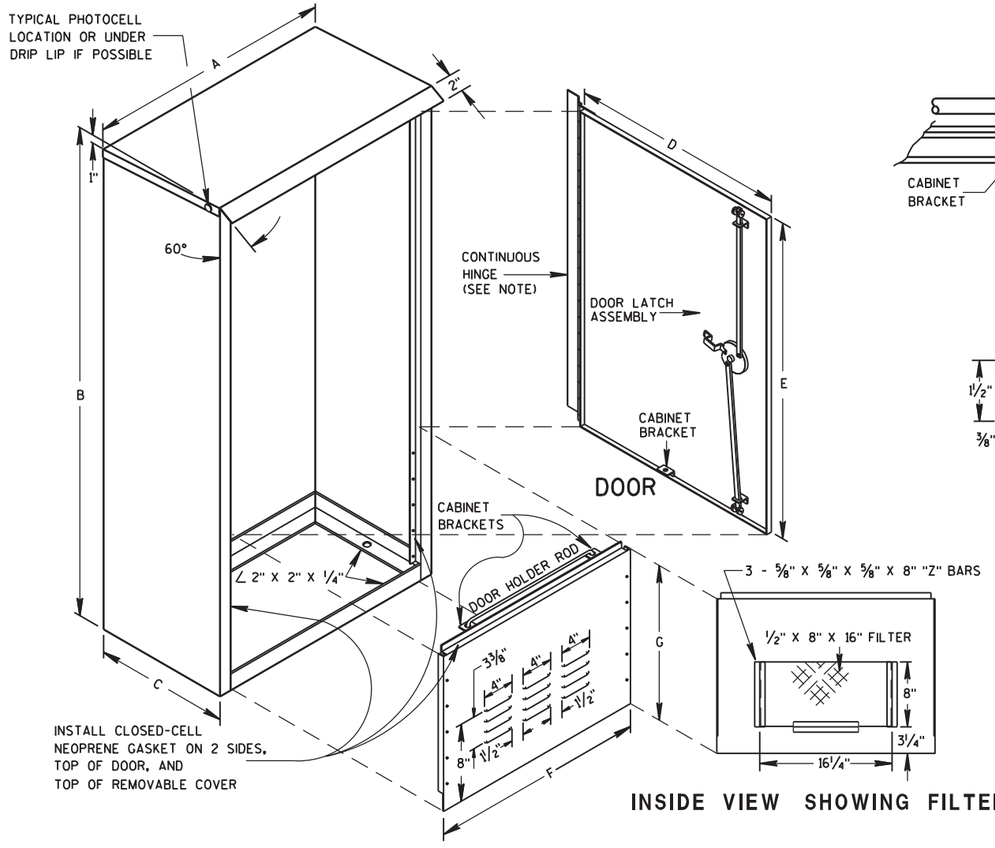
CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
10/27/09 DATE	/S/ Joanna L. Bush STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA	

6

S.D.D. 9 D 1-4

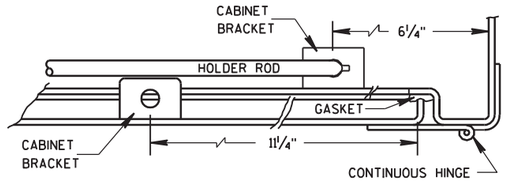
6

S.D.D. 9 D 1-4

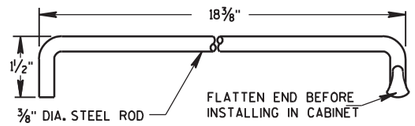


REMOVABLE COVER

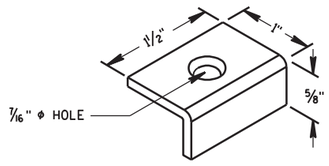
INSIDE VIEW SHOWING FILTER



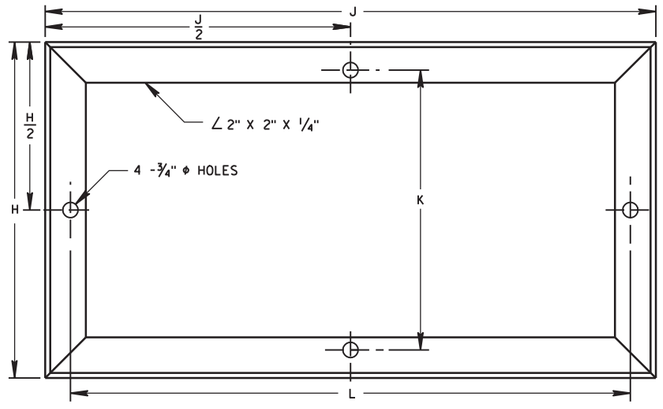
HINGE & DOOR HOLDER



HOLDER ROD



CABINET BRACKET



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

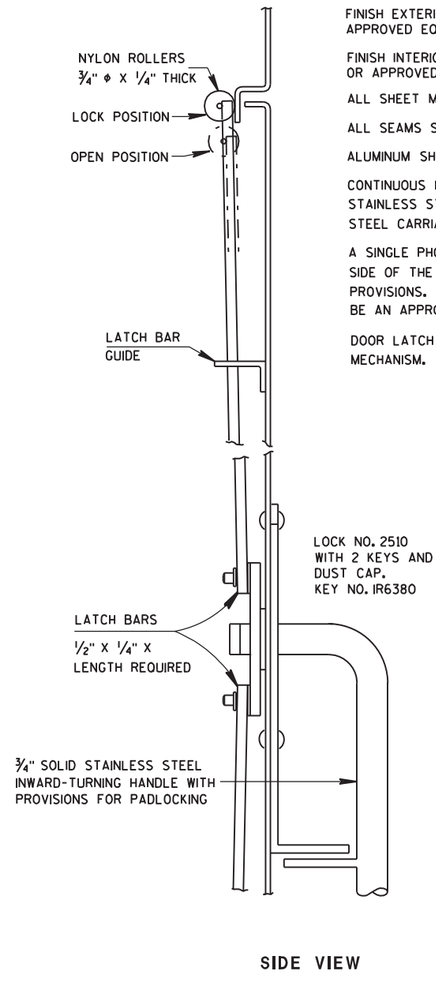
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

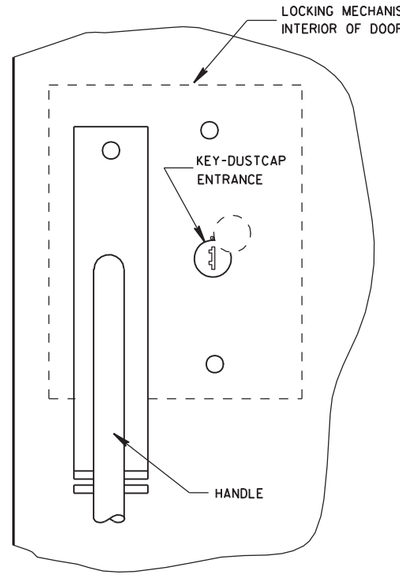
CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE AN APPROVED TYPE.

DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.

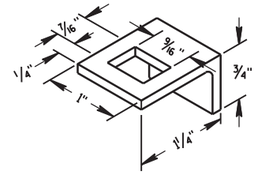


SIDE VIEW



FRONT VIEW

LATCH ASSEMBLY



LATCH BAR GUIDE

SIGNAL OR LIGHTING CONTROL CABINET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

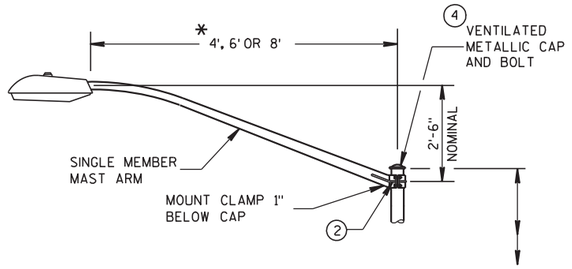
APPROVED
10/21/96
DATE
FHWA

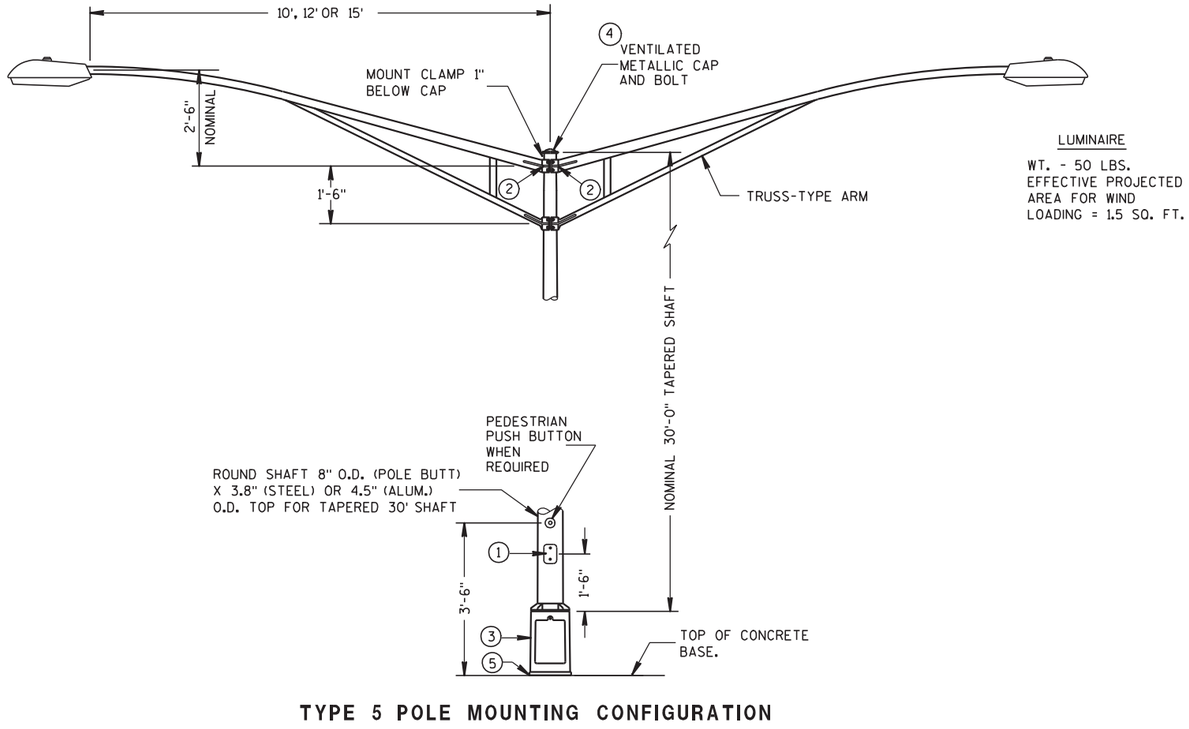
STATE ELECTRICAL ENGINEER FOR HIGHWAYS

S.D.D. 9 D 2-2

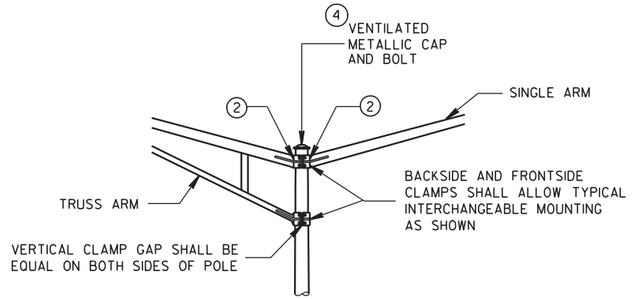
6

*RISE FOR 4' ARM SHALL BE 2'-0".





TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY



INTERCHANGEABLE MOUNTING DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

THE TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.188".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONEECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

1. 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.
2. GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.
3. CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.
4. FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.
5. SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

POLE MONTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

STATE OF WISCONSIN
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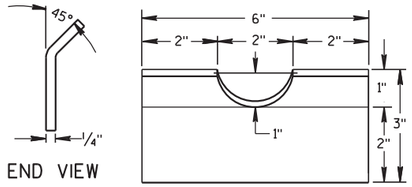
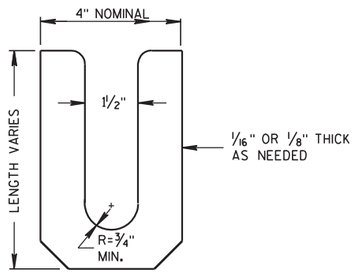
S.D.D. 9 E 1-11d



FRONT VIEW

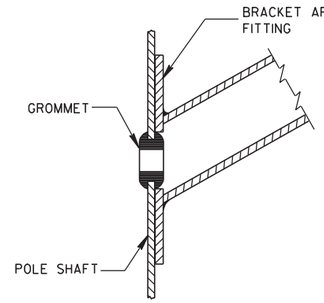
RECTANGULAR CLAMP SHIM

(4 TO A SET)

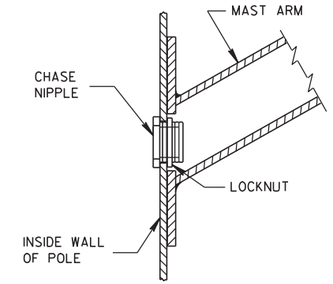


LEVELING SHIM (15)

SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

(10.) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11.) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

(12.) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(13.) OUTSIDE SHIM DIAMETER - (4.5" O.D. FOR LUMINAIRE MAST ARM)
(6.625" O.D. FOR TROMBONE MAST ARM)

(14.) VARIABLE SHIM THICKNESS - (0.10", 0.25", 0.35", 0.53" OR 0.70")

SHIM THICKNESS FOR TROMBONE MAST ARMS MAY BE TYPICALLY 0.25", 0.35", 0.53" OR 0.70".

SHIM THICKNESS FOR LUMINAIRE MAST ARMS MAY BE TYPICALLY 0.10", 0.25" OR 0.35".

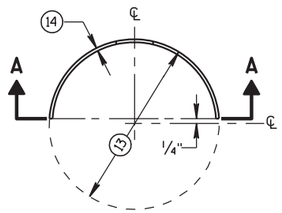
SHIM MATERIAL SHALL BE ALUMINUM ALLOY.

SHIM THICKNESS SHALL BE IMPRESSED INTO EACH SHIM. NUMERALS SHALL BE 1/4" HIGH AND LEGIBLE.

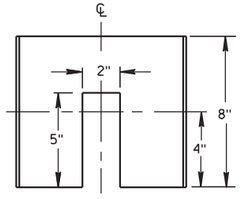
THE CONTRACTOR SHALL SUBMIT TWO COPIES OF ALL SHIM SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL.

(15.) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



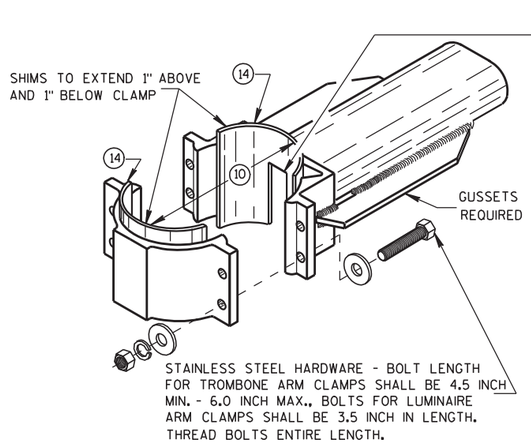
PLAN VIEW



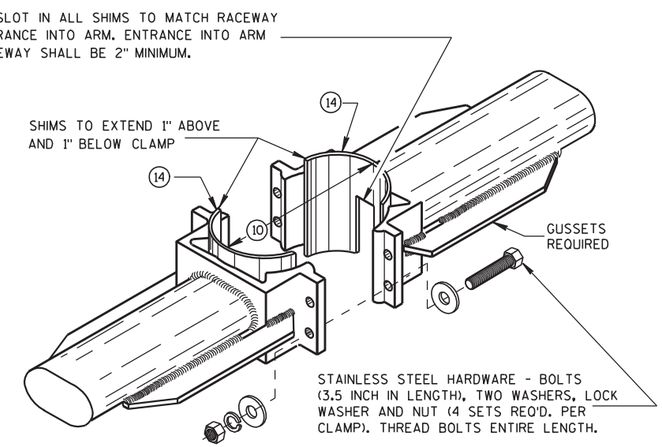
SECTION A-A

CIRCULAR CLAMP SHIM

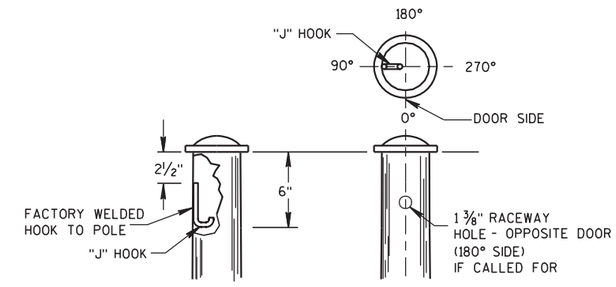
(2 TO A SET)



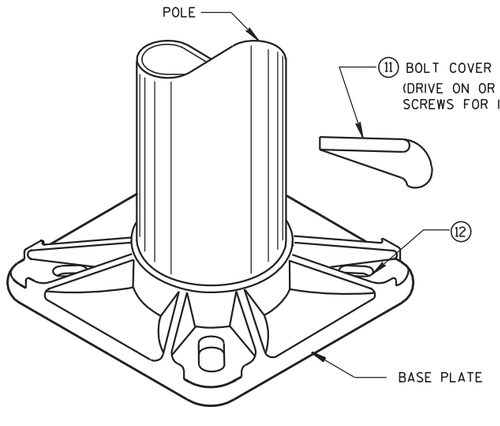
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



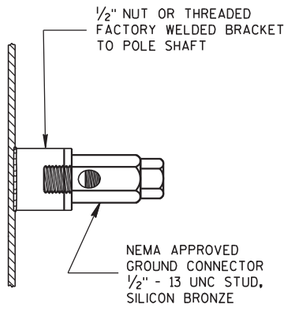
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

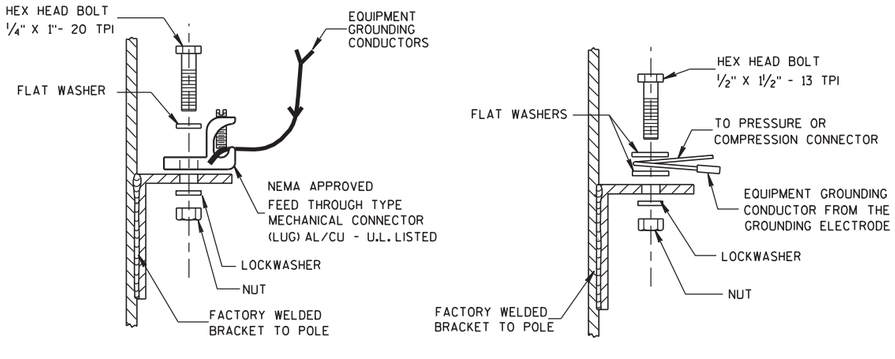


TYPICAL "J" HOOK LOCATION



BASE PLATE





TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/2/11 — DATE

/S/ Thomas J. Goerlinger — STATE ELECTRICAL ENGI

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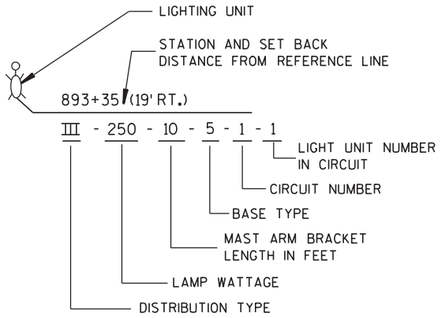
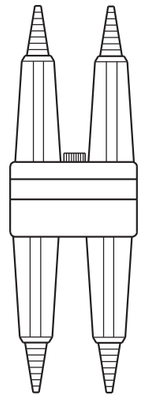
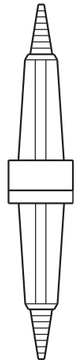


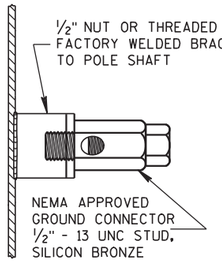
LIGHTING UNIT CODE
(TYPICAL)

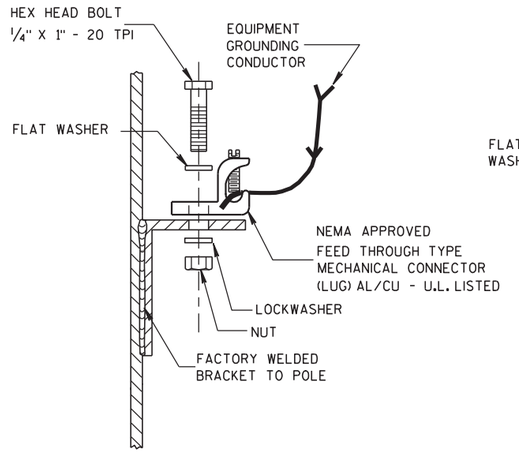


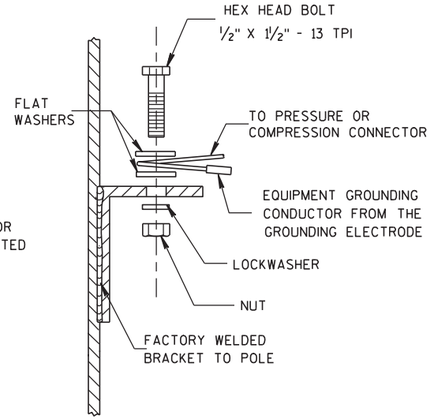
DETAIL "A"
BREAKAWAY
DOUBLE POLE WITH
WATERPROOF
INSULATING BOOT



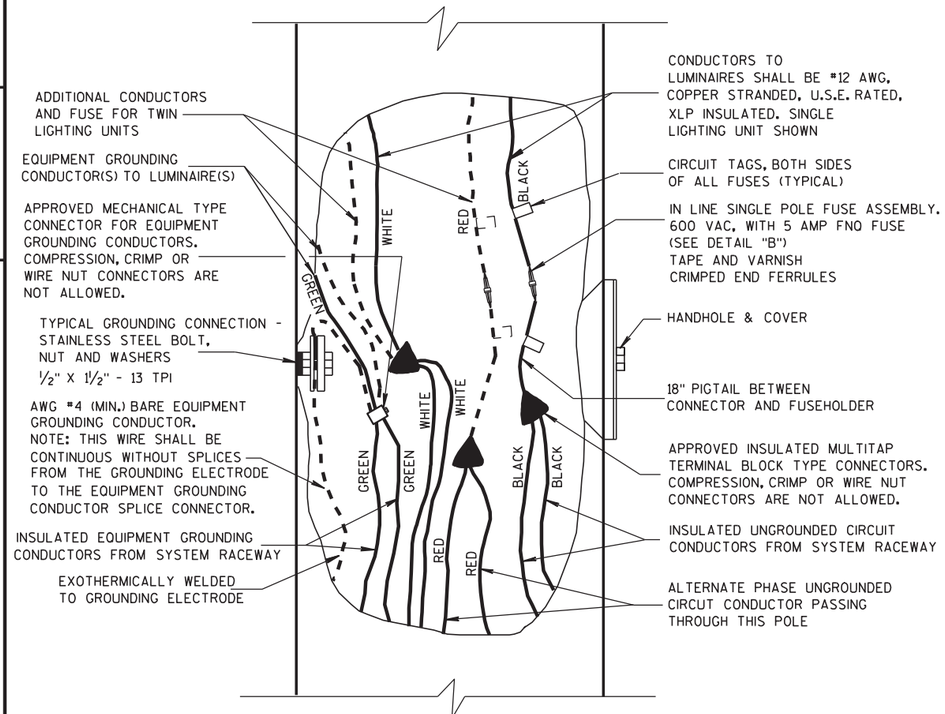
DETAIL "B"
BREAKAWAY
SINGLE POLE WITH
WATERPROOF
INSULATING BOOT



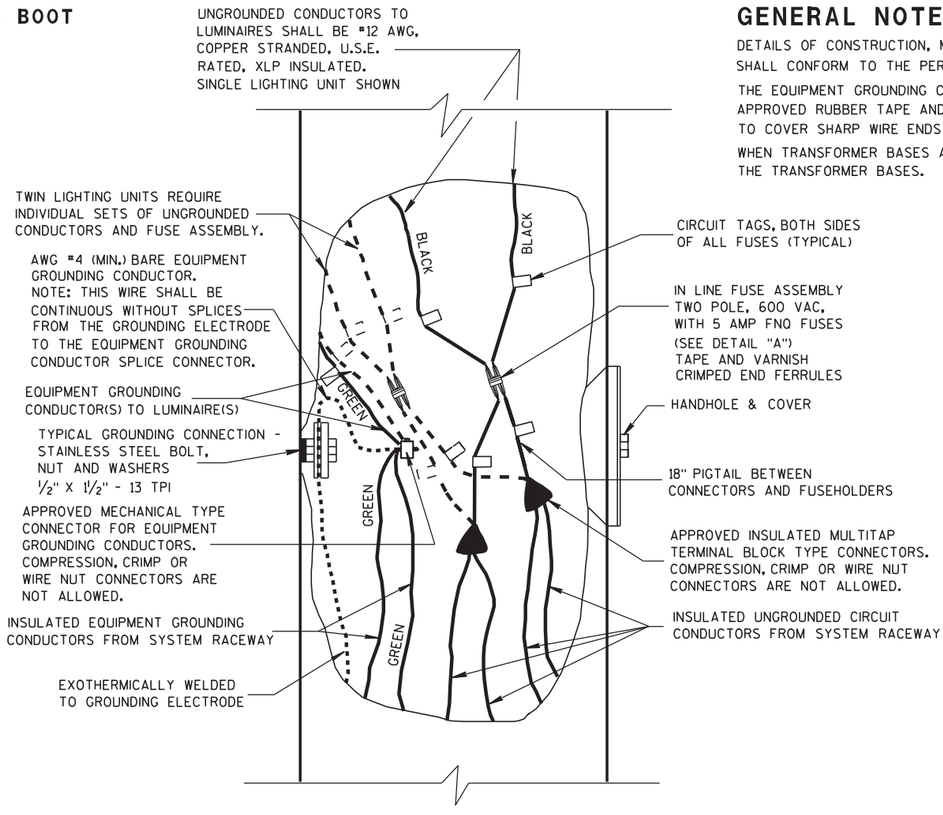




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTOR) WITH GROUNDED CONDUCTOR AND WITH EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUNDING CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND THEN 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/2/2011 — DATE

/S/ Thomas J. Gosnine — STATE ELECTRICAL ENGI

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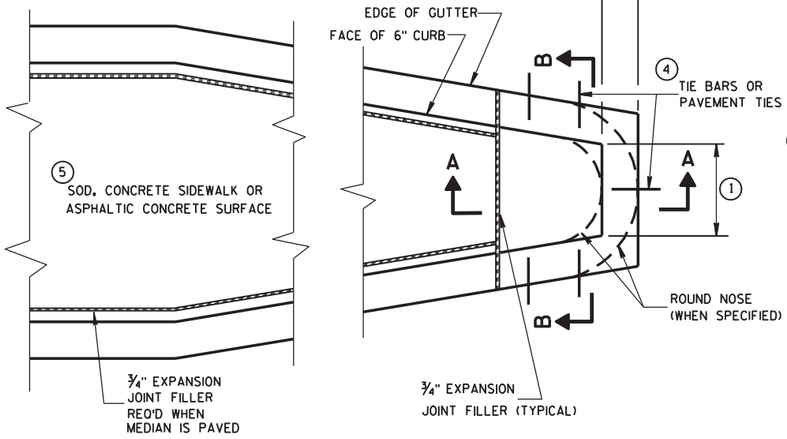
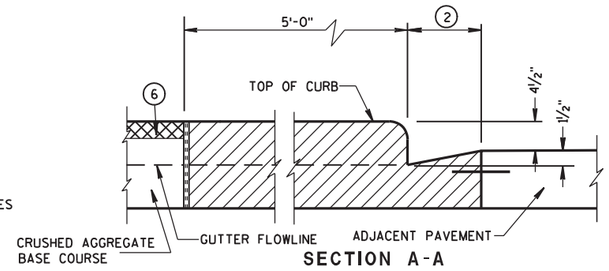
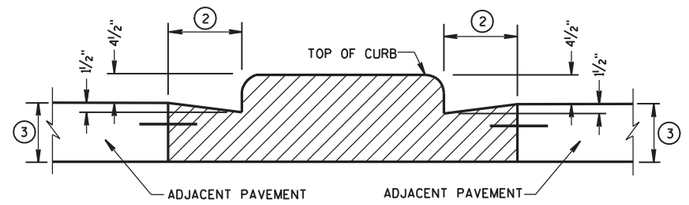




SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

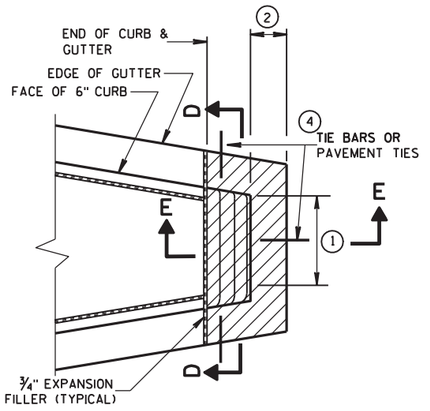
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

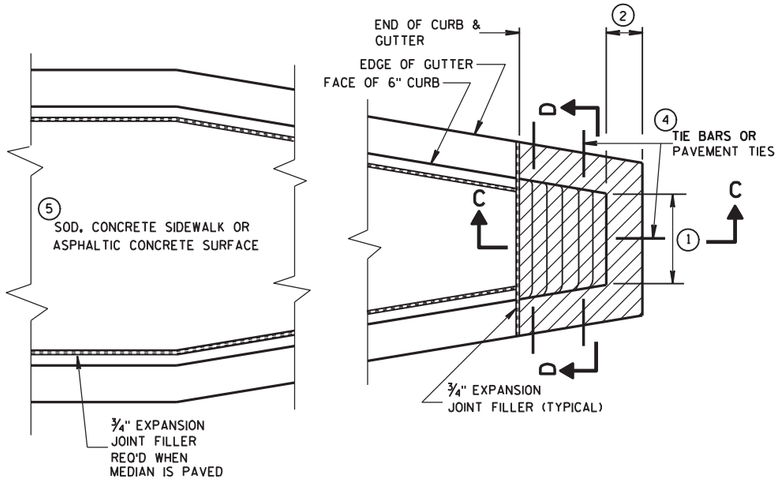
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

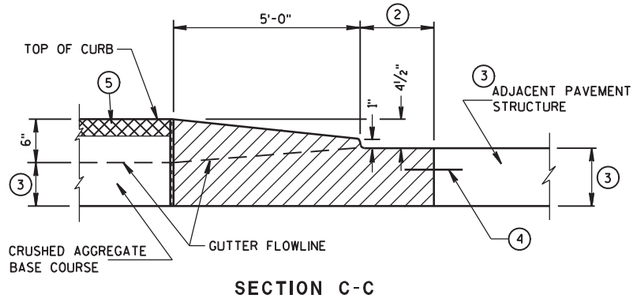
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

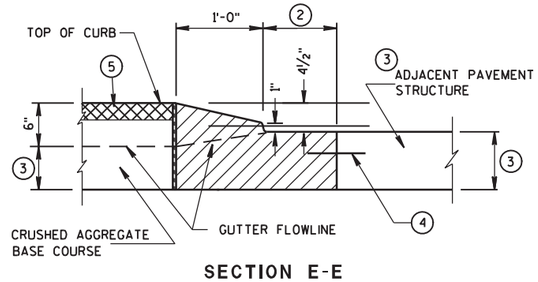




CONCRETE MEDIAN SLOPED NOSE TYPE 1

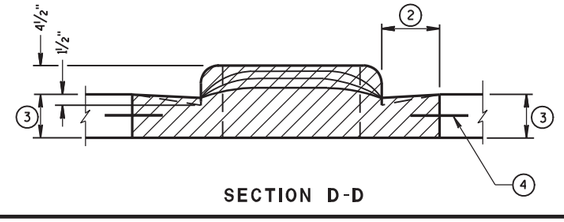


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/8/06 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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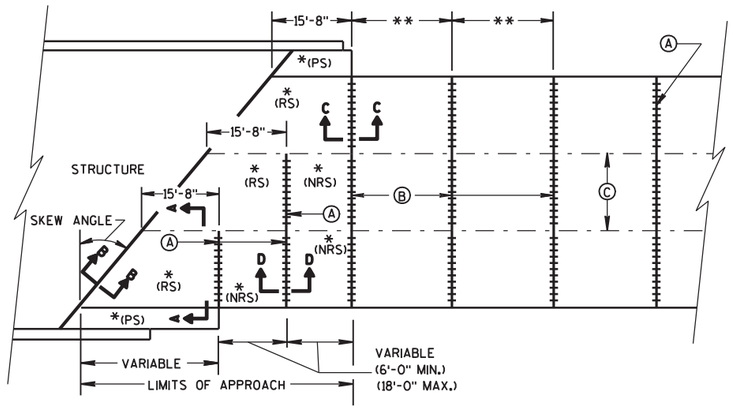
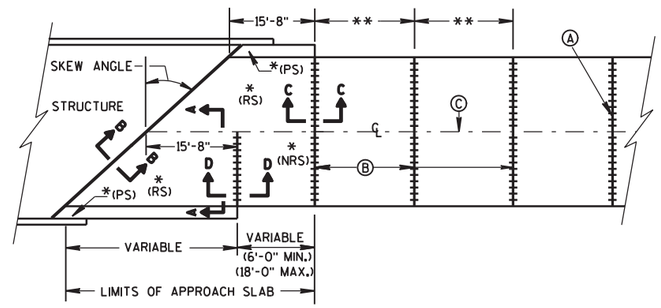
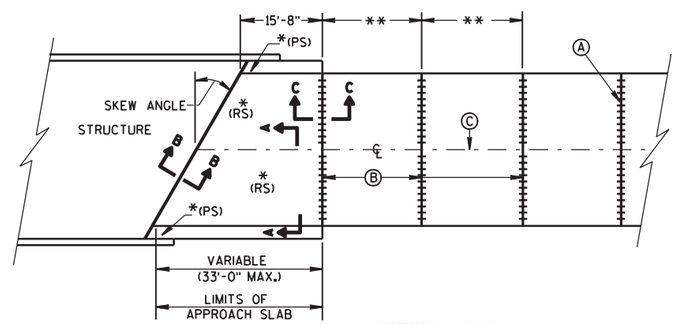
S.D.D. 11B 2-2



SKEWED APPROACH
(PAVEMENT MORE THAN 2 LANES)



SKEWS >30°
(PAVEMENT WIDTH ≤30')



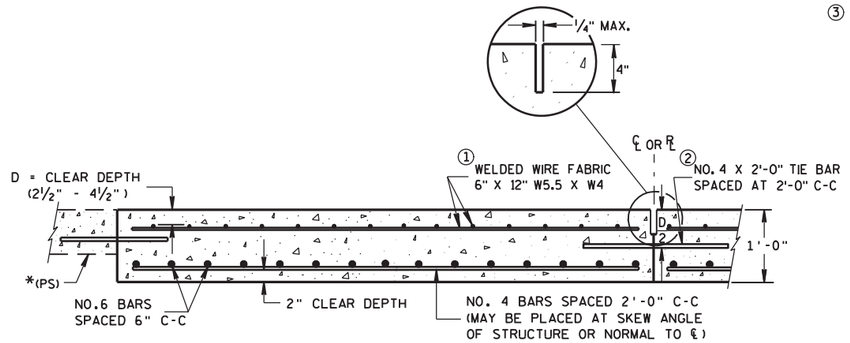
SKEWS ≤30°
(PAVEMENT WIDTH ≤30')

APPROACH SLAB AND ADJACENT PAVEMENT

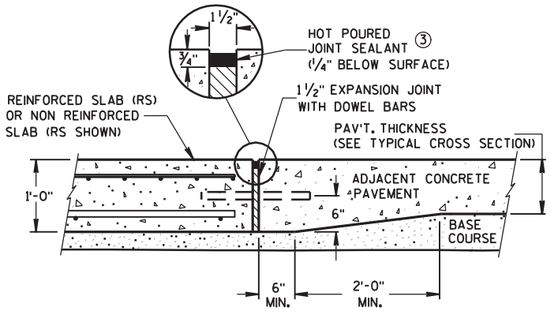
*(RS) = REINFORCED CONCRETE SLAB
*(PS) = PAVED CONCRETE SHOULDER: CONCRETE PAVEMENT, OR CONCRETE SURFACE DRAIN (SEE DETAILS ELSEWHERE IN THE PLAN)
*(NRS) = NON-REINFORCED CONCRETE SLAB

**STANDARD TRANSVERSE JOINT SPACING (SEE SDD 13C4, SDD 13C11, & SDD 13C13)

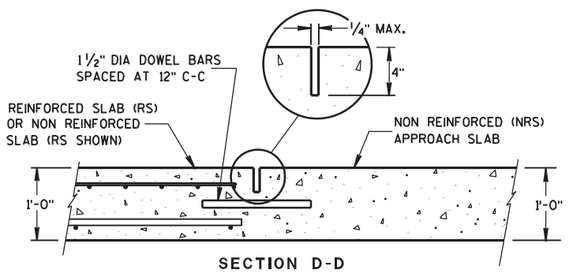
Ⓐ STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℄
Ⓑ 1½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℄
Ⓒ STANDARD LONGITUDINAL JOINT AND TIE BARS.



SECTION A-A
REINFORCEMENT POSITIONING DETAIL



SECTION C-C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT



SECTION D-D
CONTRACTION JOINT

GENERAL NOTES

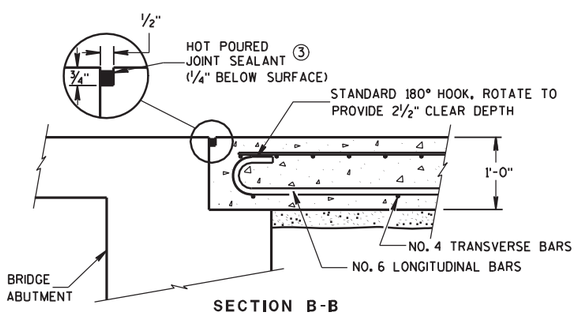
APPROACH SLABS ABUTTING AN HMA PAVEMENT OVER BASE COURSE DO NOT NEED TO BE DOWELED.

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

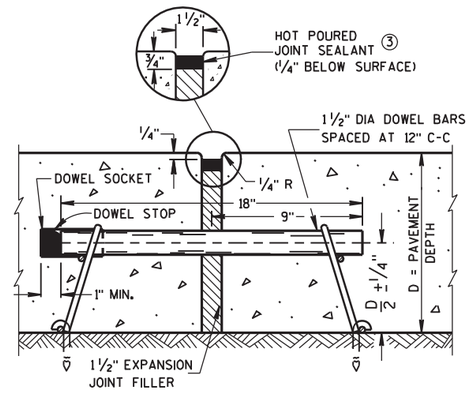
① THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2'-0" C-C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

② THE CONTRACTOR MAY OMIT TIE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

③ USE A JOINT SEALANT MEETING THE REQUIREMENTS OF ASTM D6690.



SECTION B-B
BEND DETAIL
BOTTOM REINFORCEMENT



EXPANSION JOINT

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/11/2009 — DATE
/S/ Deb Bischoff — PAVEMENT POLICY & DESIGN ENGINEER
FHWA

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S.D.D. 13 B 2-6

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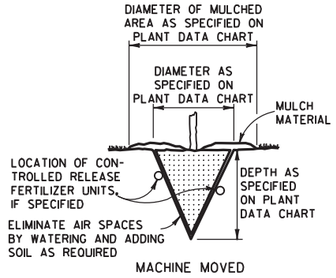
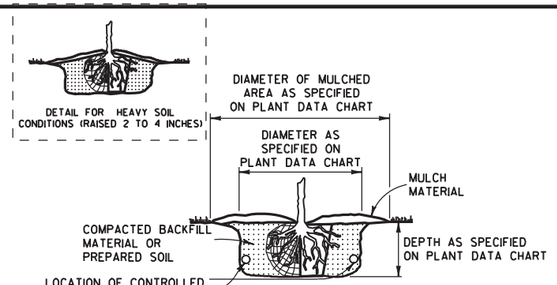
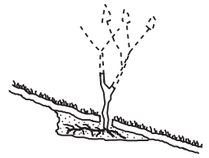
S.D.D. 13 B 2-6



MACHINE MOVED

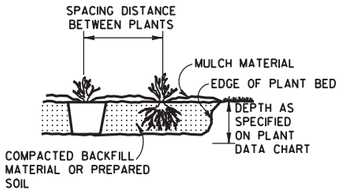


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



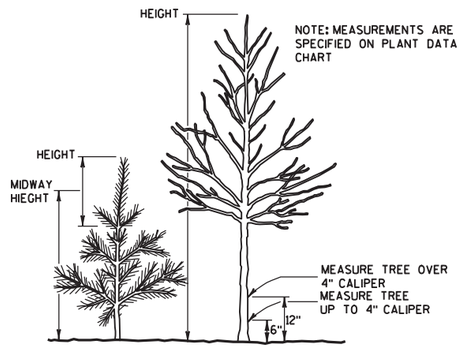
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING

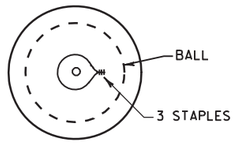


PREPARED BED (BARE ROOT AND POTTED)

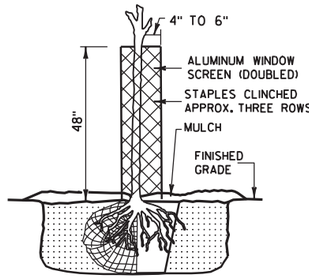
PLANTING



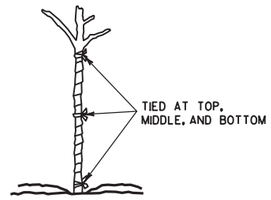
MEASURING



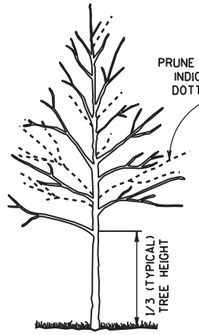
TOP VIEW



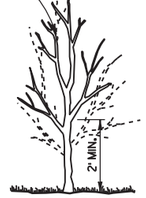
RODENT PROTECTION



WRAPPING



TALL DECIDUOUS TREES (ASH, MAPLE, LINDEN, OAK)



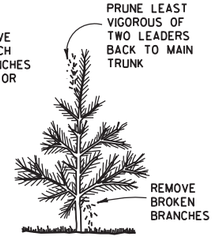
SINGLE STEMMED LOW DECIDUOUS TREES (CRABS AND OTHER SINGLE STEM TYPE)

MULTI-STEMMED LOW DECIDUOUS TREES OR LARGE SHRUBS (HAWTHORN, SERVICEBERRY)

NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES

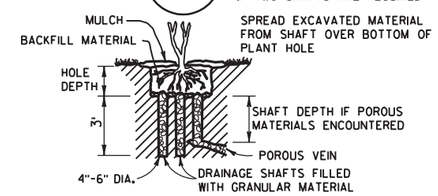
SHRUBS (GRAY DOGWOOD ARROWWOOD VIBURNUM)

SUMAC



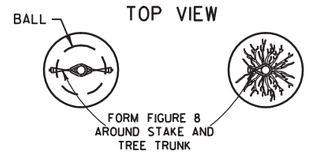
TREE TYPE EVERGREENS (PINE, SPRUCE, FIR) EVERGREENS USUALLY ARE NOT PRUNED

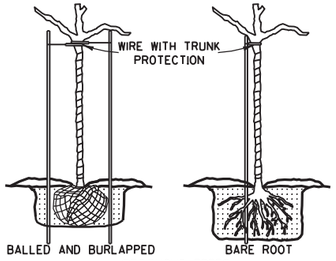
PRUNING

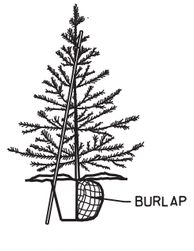


NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

DRAINING

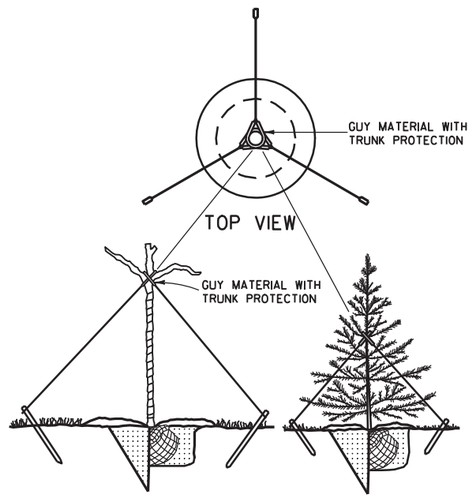




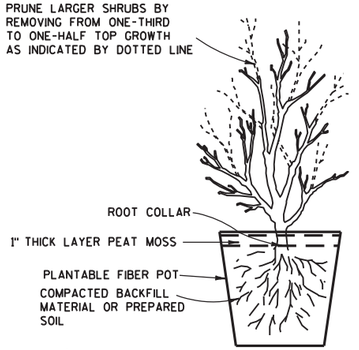


NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING



GUYING



POTTING

NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

TREE PLANTING DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/11/94
DATE

Roy D. Thuemmler
CHIEF METHODS DEVELOPMENT ENGINEER

FHWA

S.D.D. 14 A 2-1

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S.D.D. 14 A 2-1

GENERAL NOTES

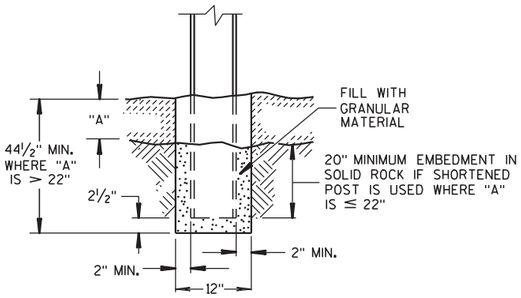
(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

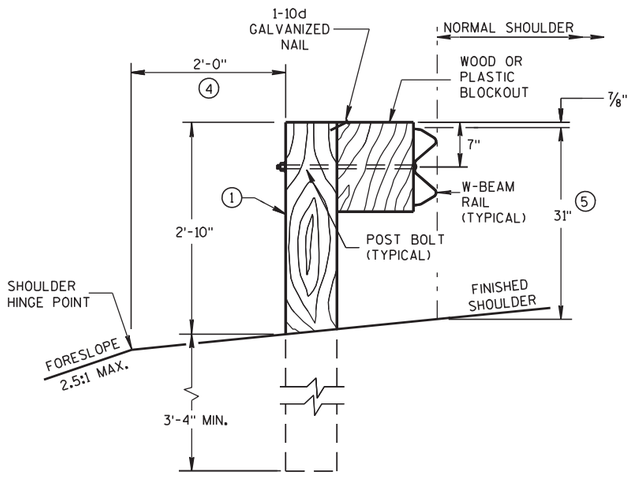
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

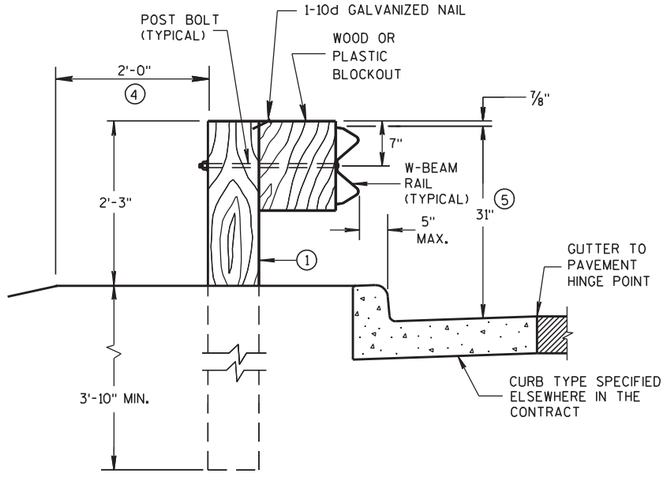
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".



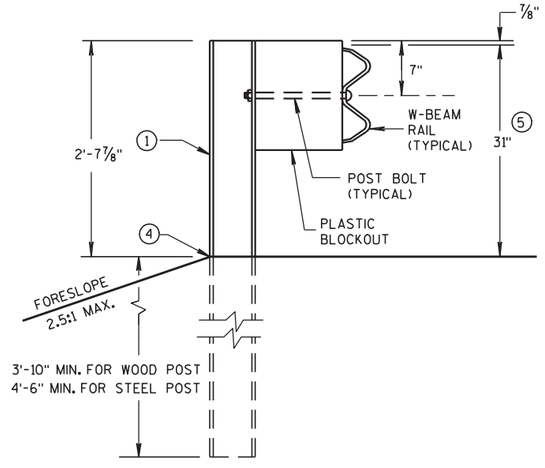
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



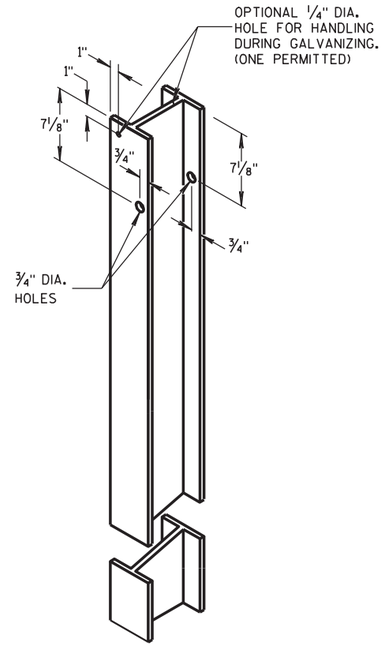
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



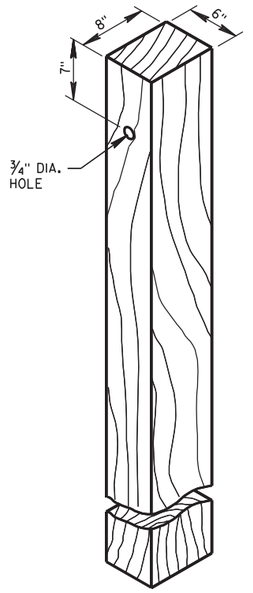
END VIEW
LOCATED ALONG A CURBED ROADWAY



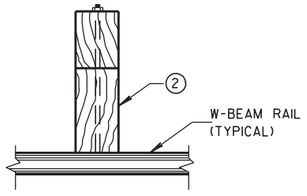
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



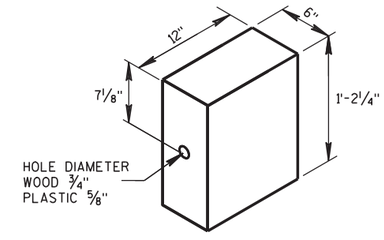
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) (1)



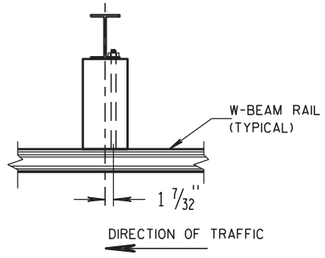
WOOD POST
(6" X 8") NOMINAL (1)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT (2)

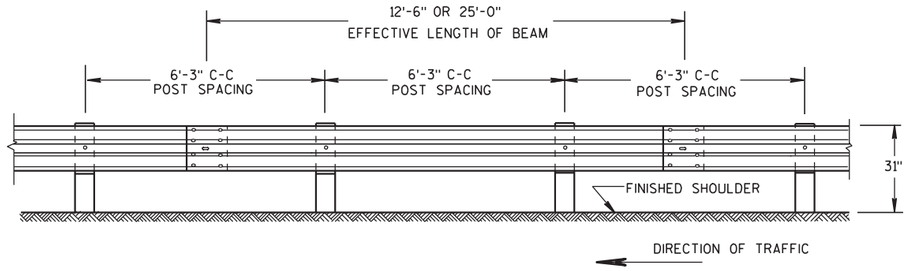


PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

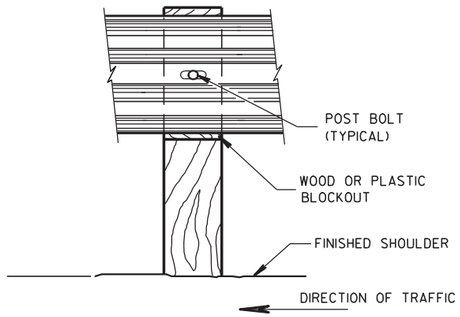
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 42-1a



FRONT VIEW

POST SPACING STANDARD INSTALLATION



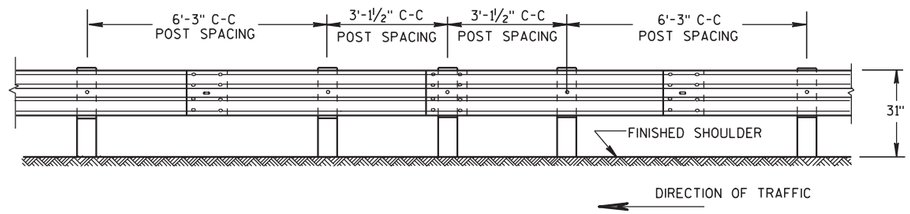
FRONT VIEW AT WOOD POST

GENERAL NOTES

1. PROVIDE TYPE "H" SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH TYPE "H" YELLOW REFLECTIVE SHEETING.
2. DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.
3. REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
4. PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.
5. 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

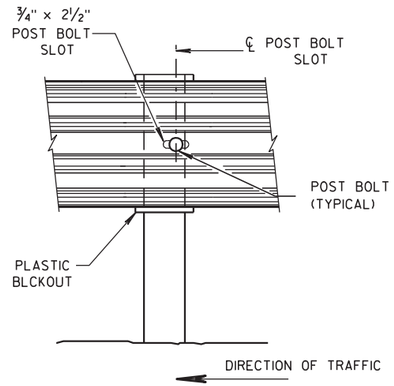
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. POST BOLTS ARE 21 INCHES LONG FOR WOOD POSTS AND 10 INCHES LONG IN STEEL POSTS. A POST BOLT REQUIRES 5/8" DIAMETER A563 DH MODIFIED (RECESSED) HEAVY HEX NUT AND 5/8" DIAMETER F436 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER X 1 1/4" LONG ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/8" DIAMETER A563 DH (RECESSED) HEAVY HEX NUT AND 5/8" DIAMETER F436 FLAT WASHER.

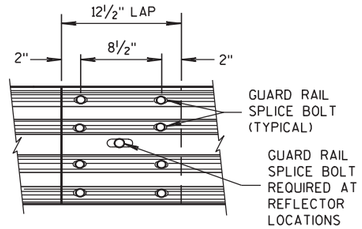


FRONT VIEW

HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

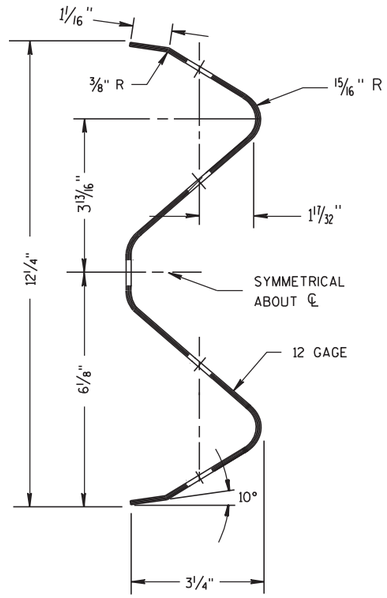


FRONT VIEW AT STEEL POST

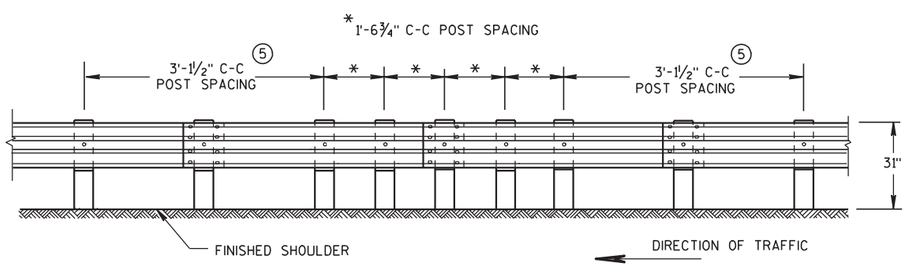


FRONT VIEW

MID-SPAN BEAM SPLICE

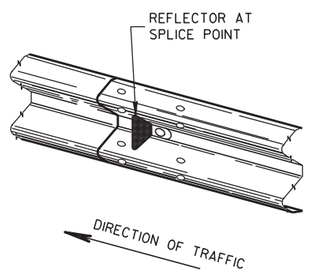


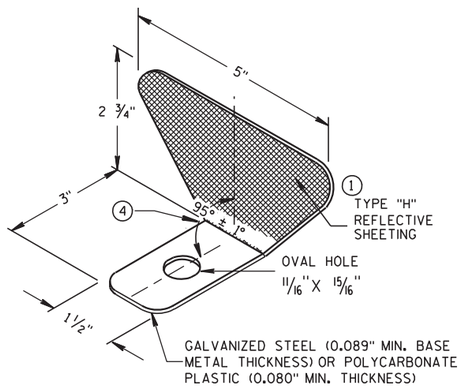
SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION ①

REFLECTOR SPACING ②

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	< 200' > 200'	25' C-C 50' C-C	1 1 ③	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 2 ④	3

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 14 B 42-1b

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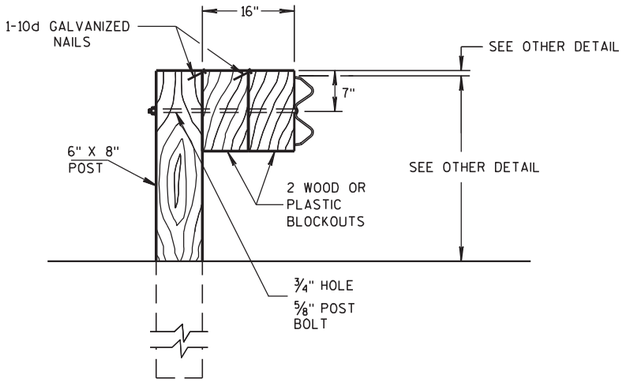
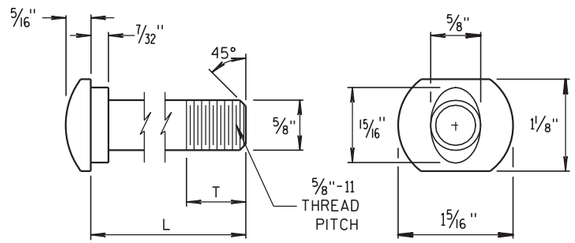


DETAIL FOR 16" BLOCKOUT DEPTH

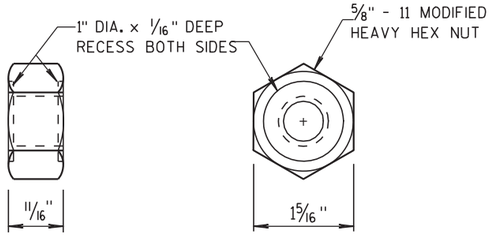
IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

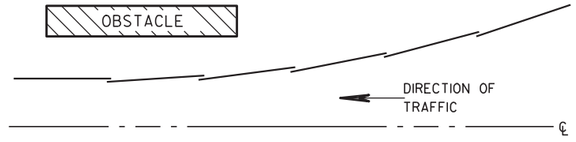


POST BOLT TABLE

L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"

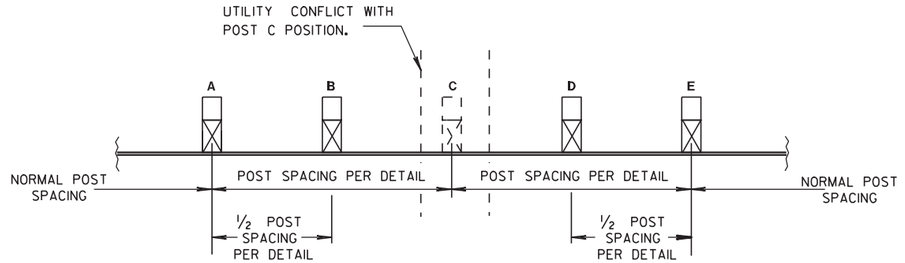


POST BOLT AND RECESS NUT

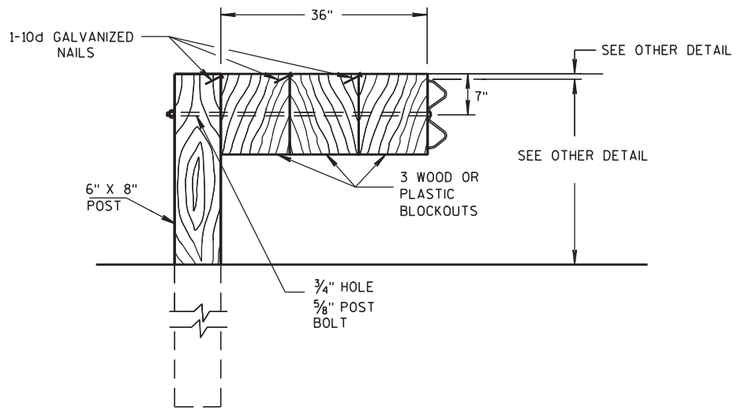


PLAN VIEW

BEAM LAPPING DETAIL



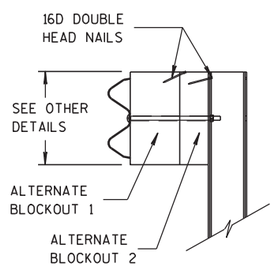
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



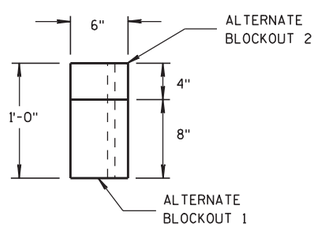
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/2011 DATE
/S/ Jerry H Zogg
ROADWAY STANDARDS ENGINEER
FHWA

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE EXTENDED VEHICLE RUNOUT PATH (EVRP), THE HINGE POINT LINE (HPL),AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(F) SHEETING IS ATTACHED TO 0.040 ALUMINUM SHEET AND ATTACHED TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER OF E.A.T.

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

SEE SDD 14B42 FOR MORE INFORMATION.

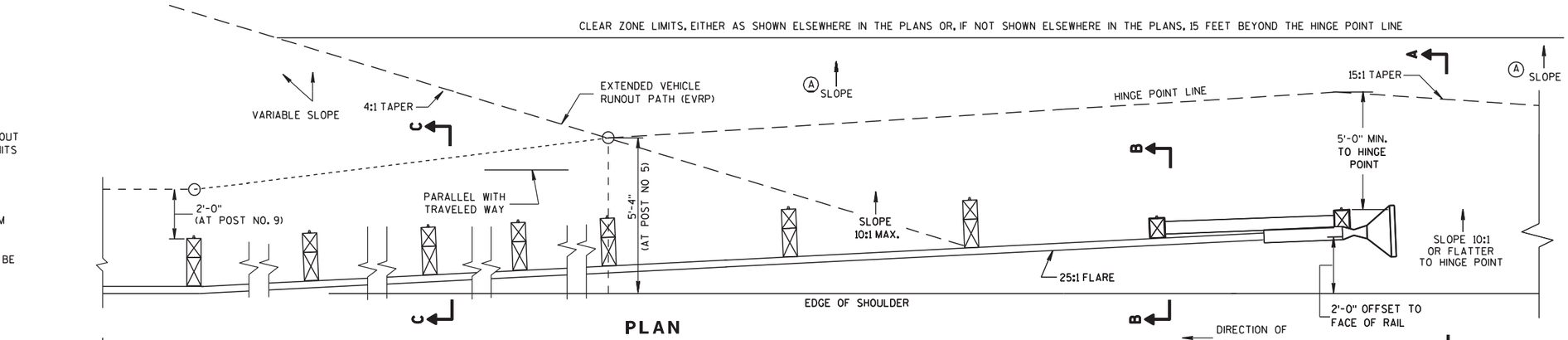
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

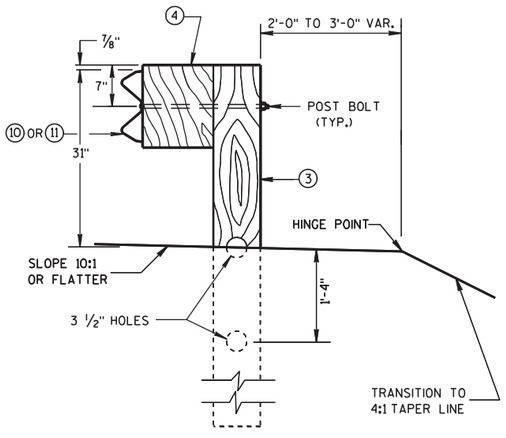
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

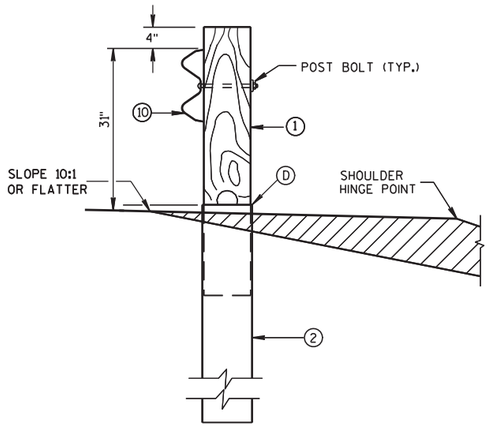
PATTERN AND COLORS ON REFLECTIVE SHEETING TYPE H ARE TO CONFORM TO OM3-L OR OM3-R OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE (± ¾")

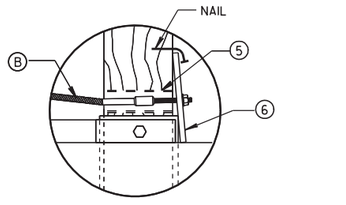


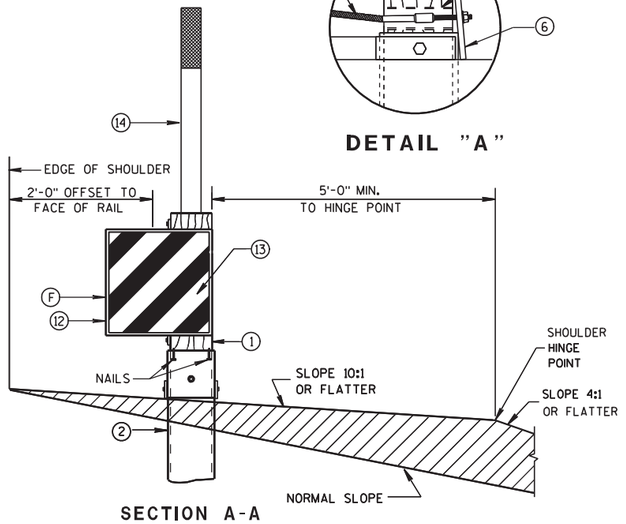


SECTION C-C
TYPICAL AT POST NOS. 3-9

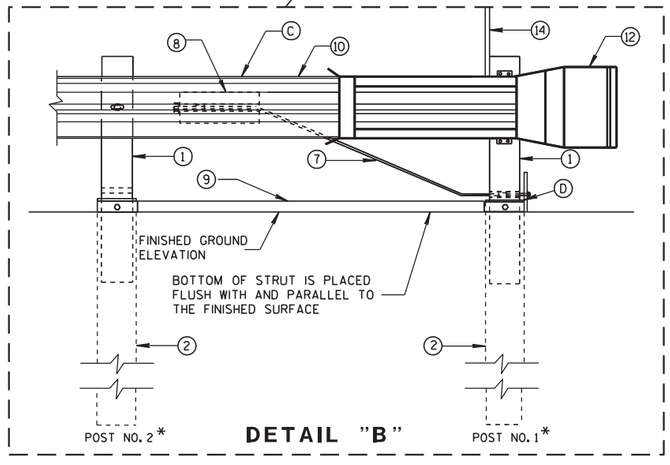


SECTION B-B
TYPICAL AT POST NO. 2*





SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

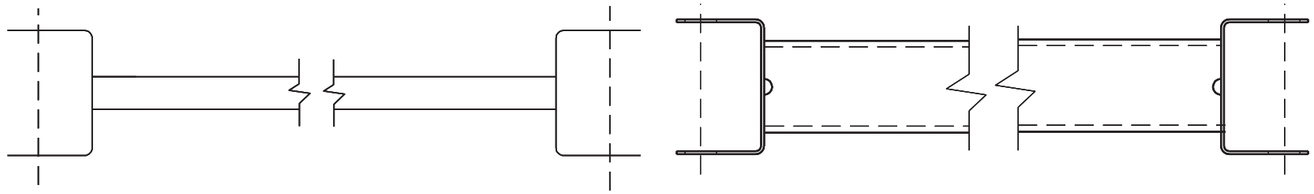
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 44-1a

6

S.D.D. 14 B 44-1a

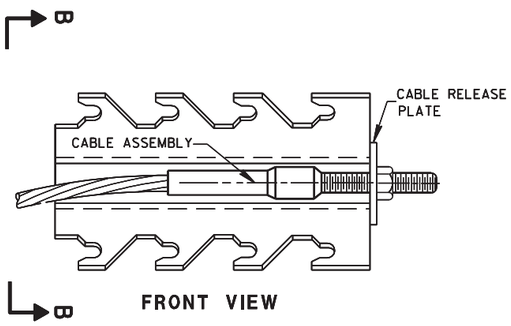


(9) (H)

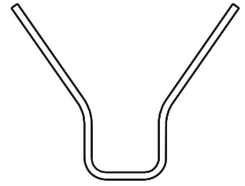
GENERIC GROUND STRUT

BILL OF MATERIALS

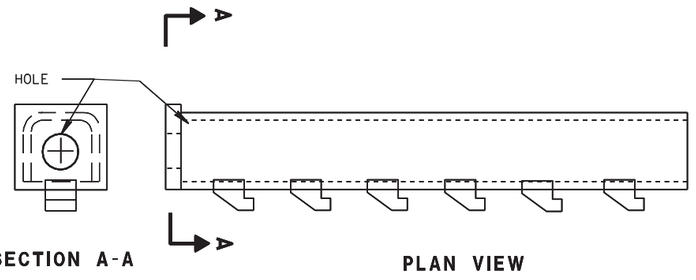
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	END SECTION EAT
(13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE H (ONLY THE SHEETING IS SUPPLIED BY THE MANUFACTURER)
(14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



FRONT VIEW



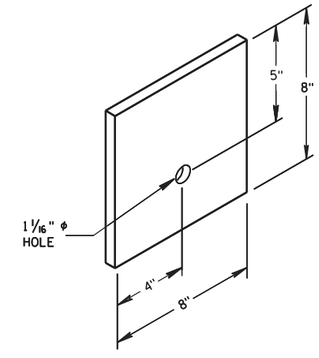
SECTION B-B



SECTION A-A

PLAN VIEW

GENERIC ANCHOR CABLE BOX (8) (H)



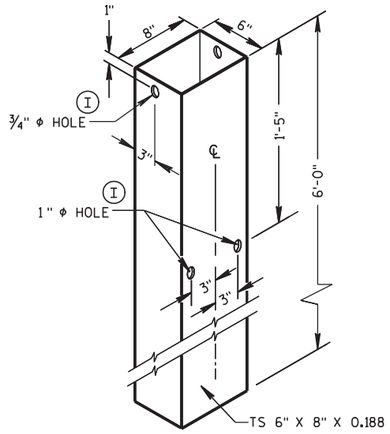
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

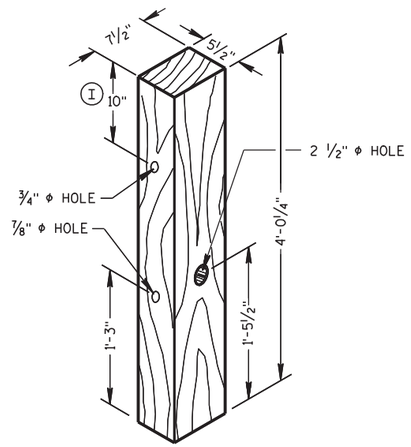
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 44-1b

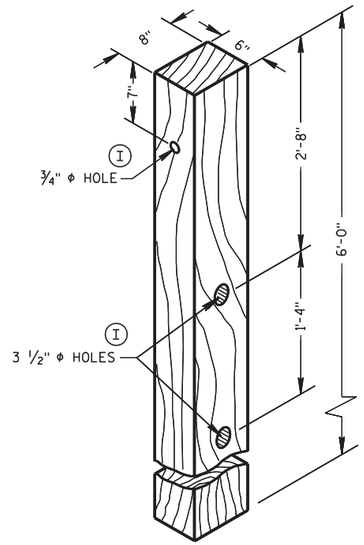


FOUNDATION TUBE (2)



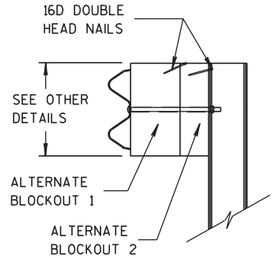
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

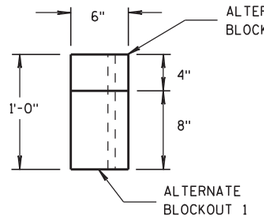


POSTS NUMBER 3-9

WOOD CRT POST (3)

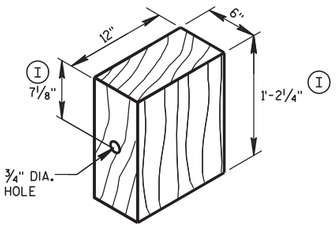


SIDE VIEW



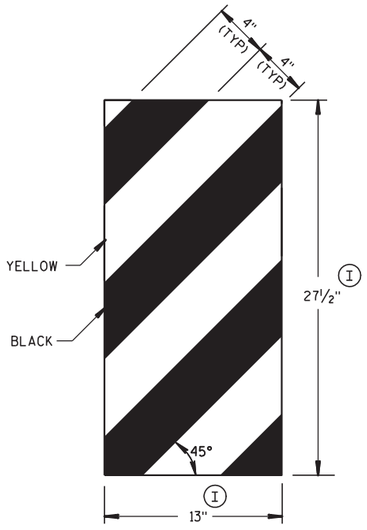
TOP VIEW

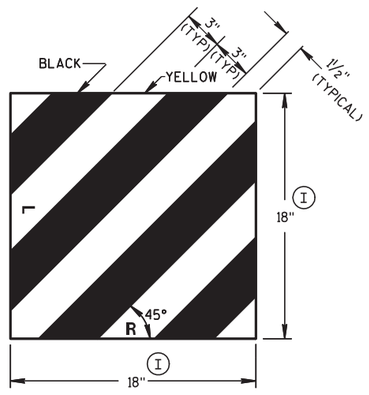
ALTERNATE WOOD BLOCKOUT DETAIL



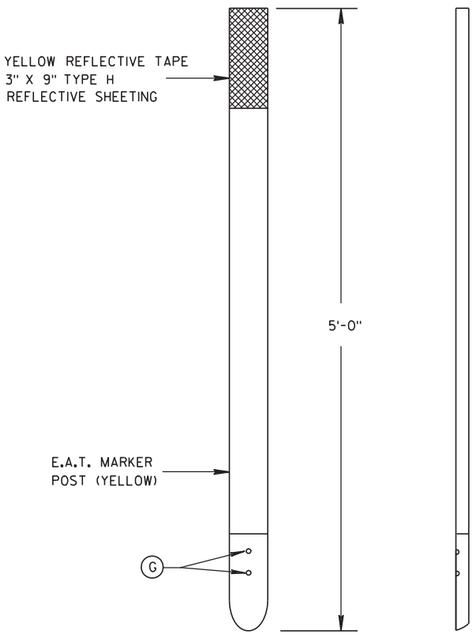
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





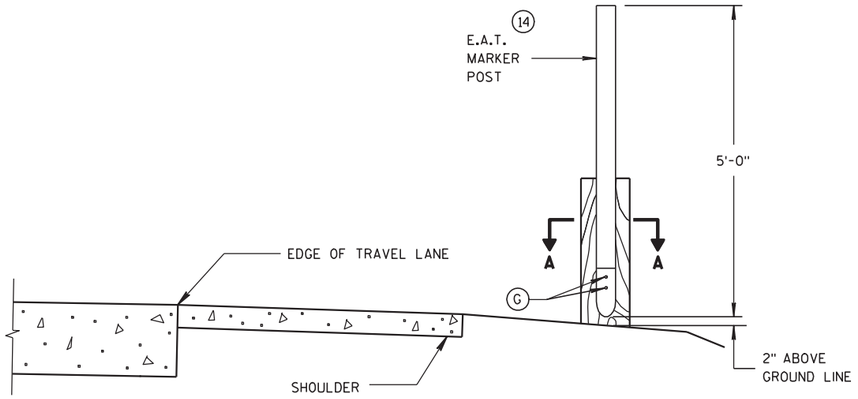
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

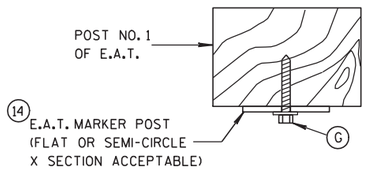
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



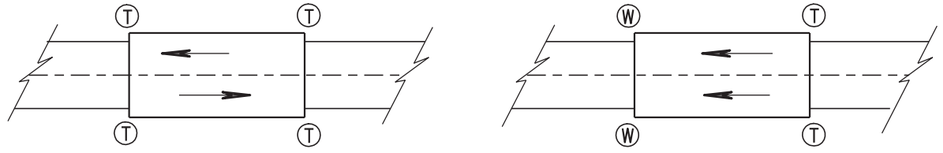
SECTION A-A

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/2011
DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
271
FHWA

6
S.D.D. 14 B 44-1c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

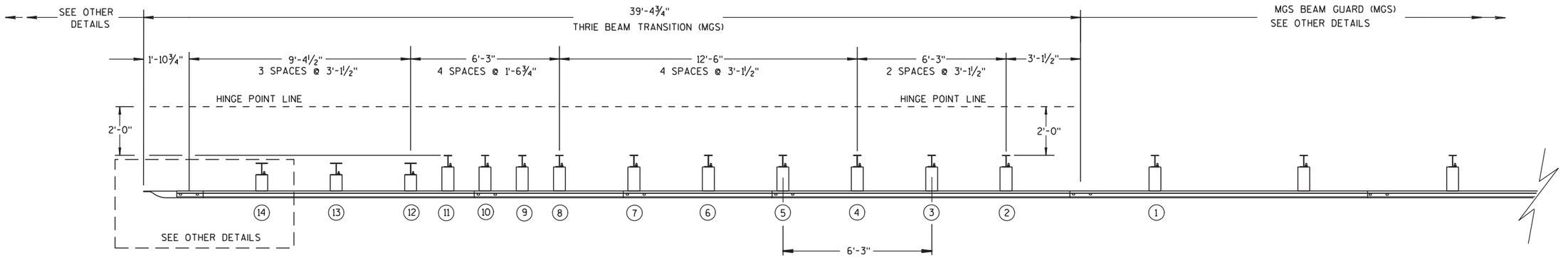
BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3.

IF ROCK IS ENCOUNTERED DURING EXCAVATION, SEE STANDARD DETAIL DRAWING 14 B 15-a.

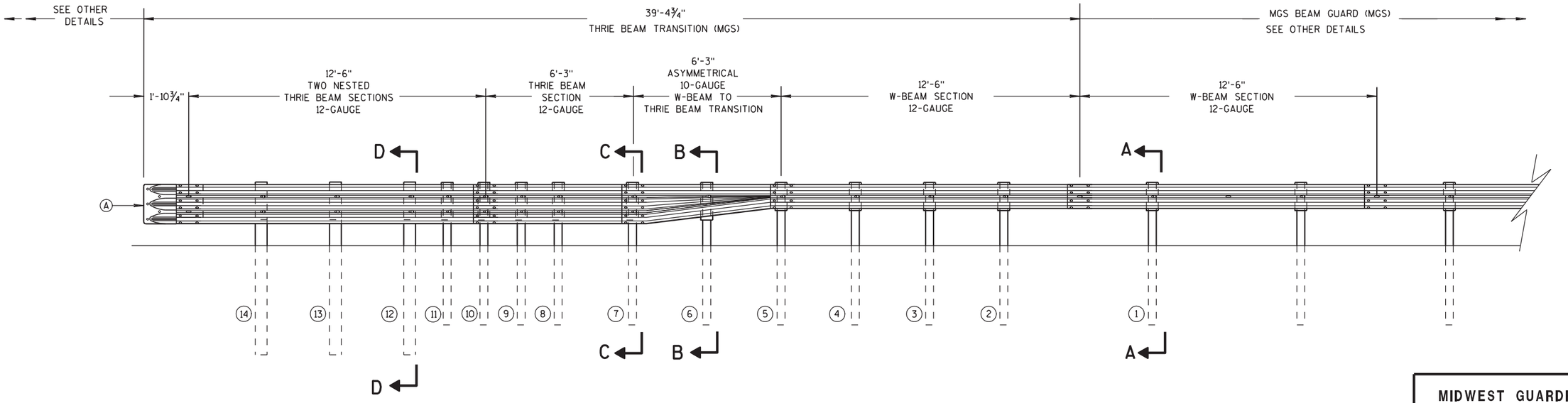
TRANSITION USES STEEL POSTS ONLY.

SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

(A) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

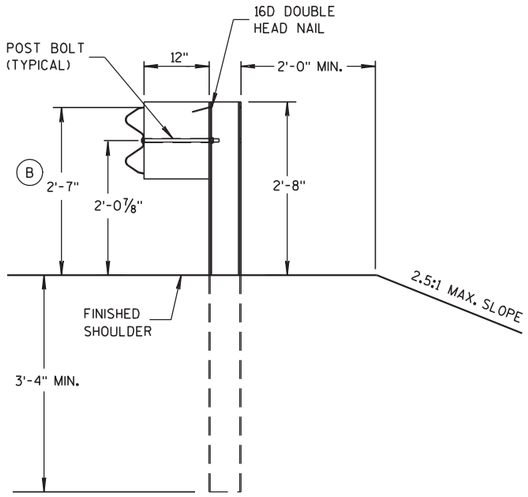
S.D.D. 14 B 45-1a

6

S.D.D. 14 B 45-1a

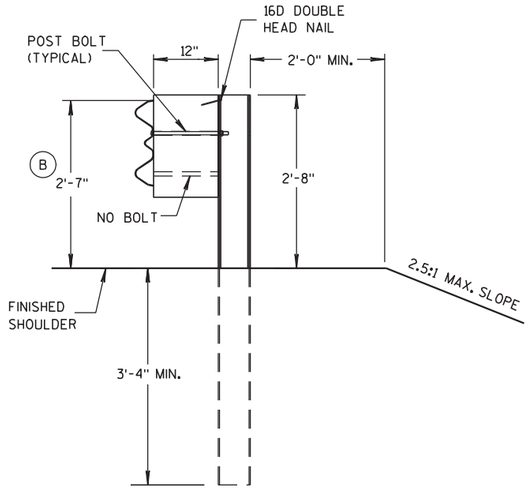
GENERAL NOTES

(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



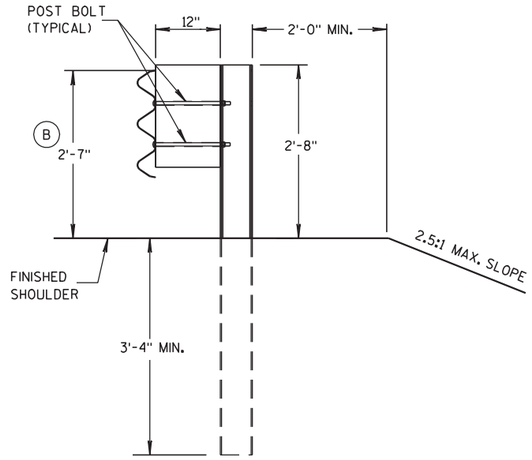
SECTION A-A

POSTS 1-5



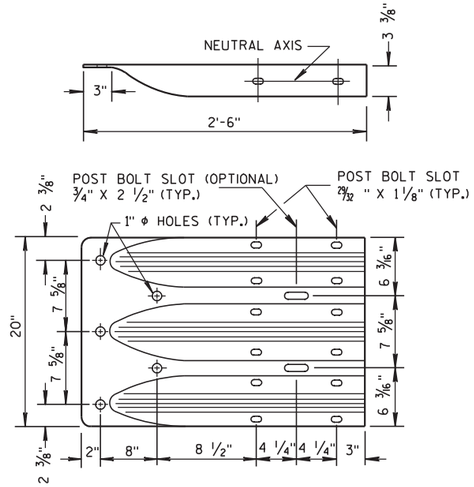
SECTION B-B

POST 6

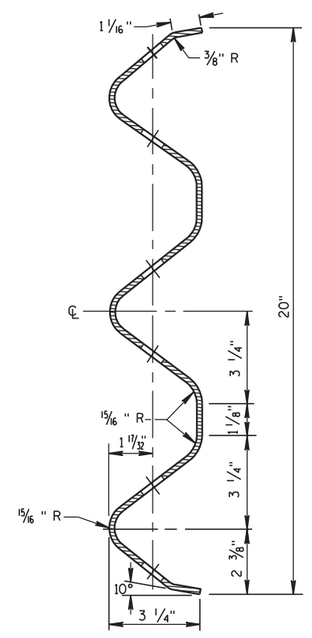


SECTION C-C

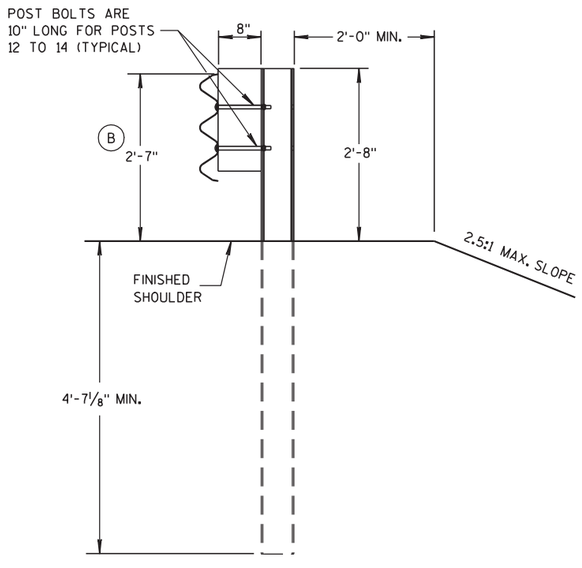
POSTS 7-11



THRIE BEAM TERMINAL CONNECTOR

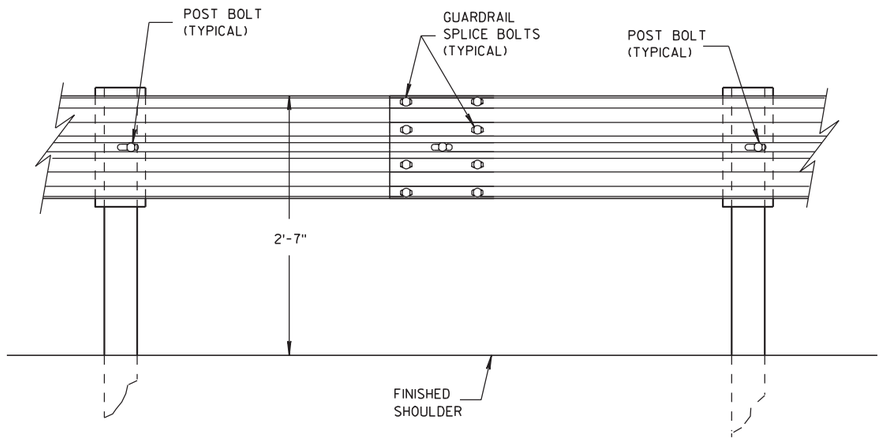


SECTION THRU THRIE BEAM RAIL ELEMENT



SECTION D-D

POSTS 12-14



SPLICE DETAIL

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

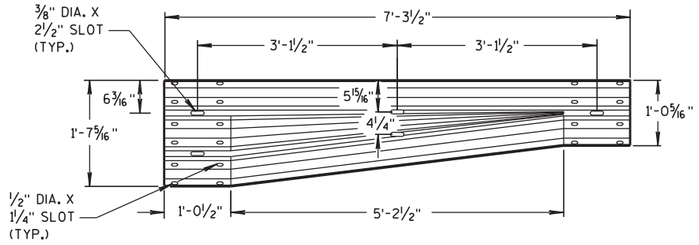
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

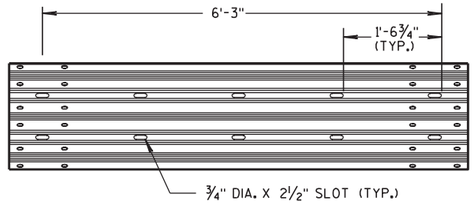
S.D.D. 14 B 45-1b

6

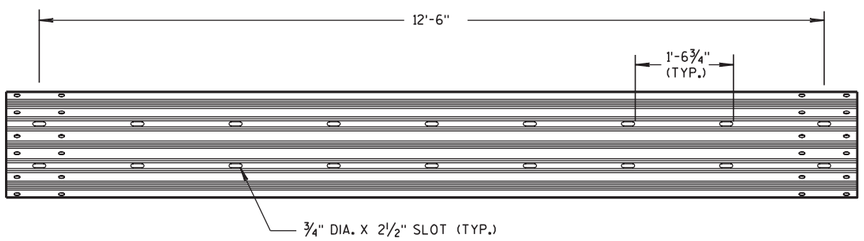
S.D.D. 14 B 45-1b



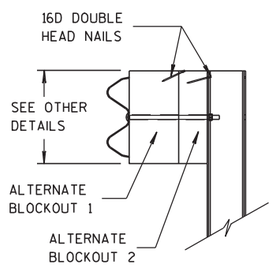
W-BEAM TO THRIE BEAM TRANSITION SECTION



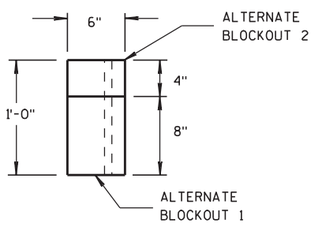
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

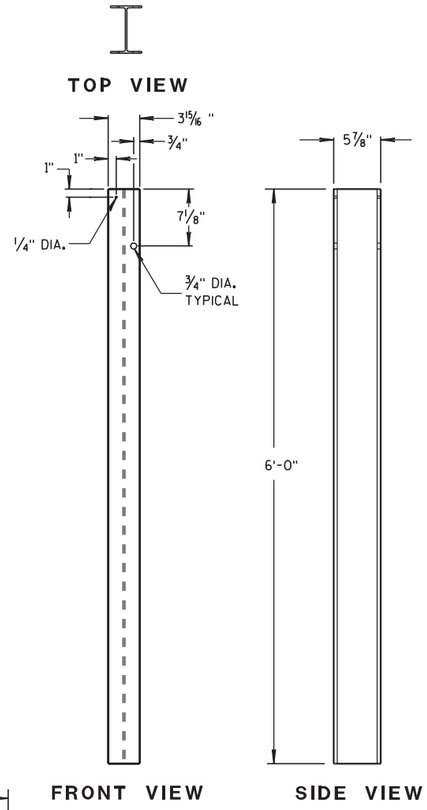


SIDE VIEW

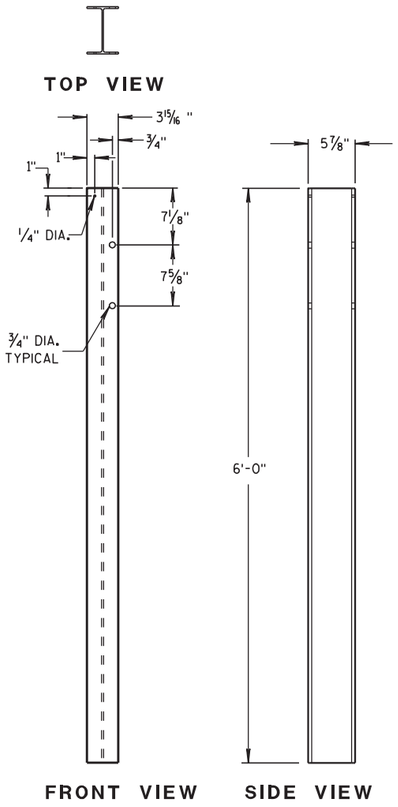


TOP VIEW

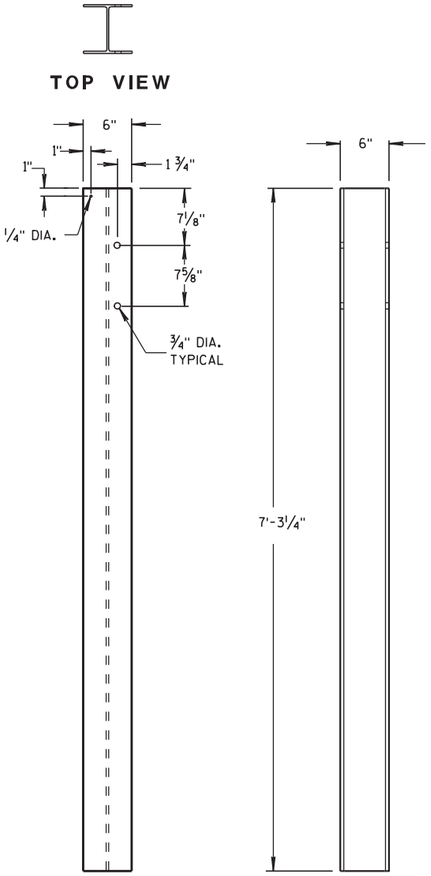
ALTERNATE WOOD BLOCKOUT DETAIL



STEEL POSTS 1-5

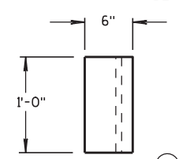


STEEL POSTS 6-11

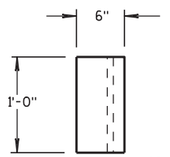


STEEL POSTS 12-14

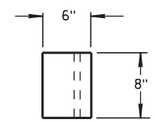
(1) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.



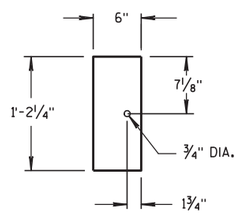
TOP VIEW (1)



TOP VIEW (1)

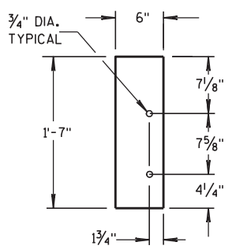


TOP VIEW



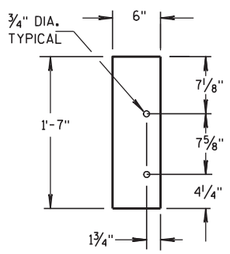
FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-11



FRONT VIEW

BLOCKOUT POSTS 12-14

STEEL POST OPTION

POST NUMBER	SECTION TYPE	LENGTH
(1)	W6x9	72"
(2)	W6x9	72"
(3)	W6x9	72"
(4)	W6x9	72"
(5)	W6x9	72"
(6)	W6x9	72"
(7)	W6x9	72"
(8)	W6x9	72"
(9)	W6x9	72"
(10)	W6x9	72"
(11)	W6x9	72"
(12)	W6x15	87 1/8"
(13)	W6x15	87 1/8"
(14)	W6x15	87 1/8"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

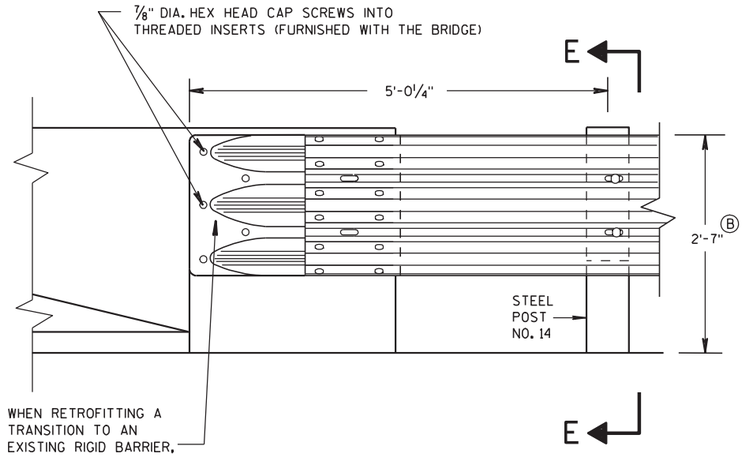
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

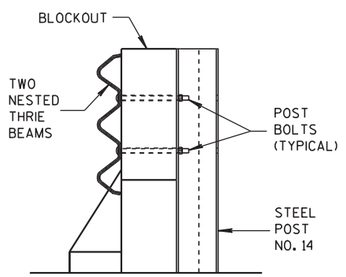
S.D.D. 14 B 45-1c

6

S.D.D. 14 B 45-1c



FRONT VIEW



SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

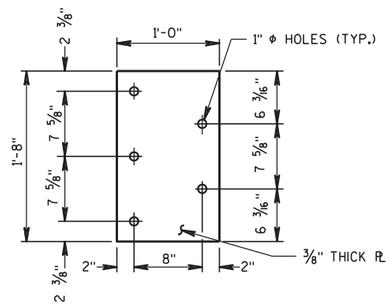
THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(1) INCLUDE THE PAYMENT FOR DRILLING BOLT HOLES THROUGH THE PARAPET, AND THE BACKUP PLATE AND ALL BOLTS, NUTS AND WASHERS IN THE ITEM "STEEL THRIE BEAM STRUCTURAL APPROACH".

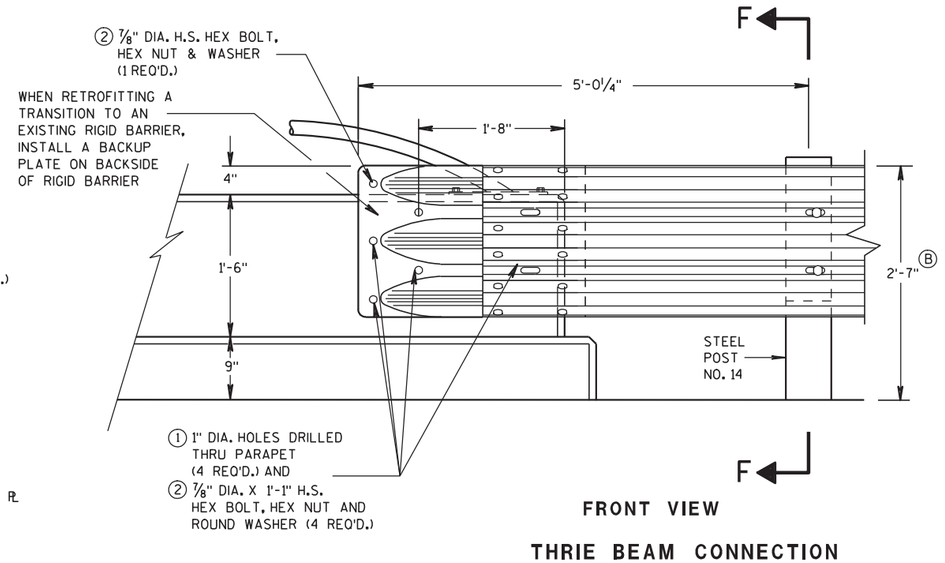
(2) EACH BOLT AT THE BACK FACE OF THE PARAPET REQUIRES A HARDENED ROUND STEEL WASHER WITH A 2 1/4" O.D. X 5/32 " THICK.

(3) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

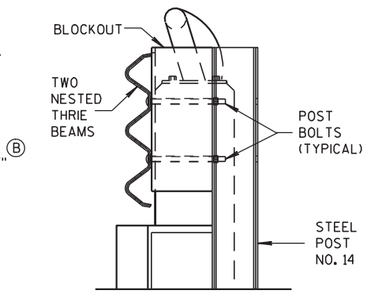
(B) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



(2) **BACKUP PLATE DETAIL**
(USE ONLY AT BRIDGE PARAPET CONNECTIONS)

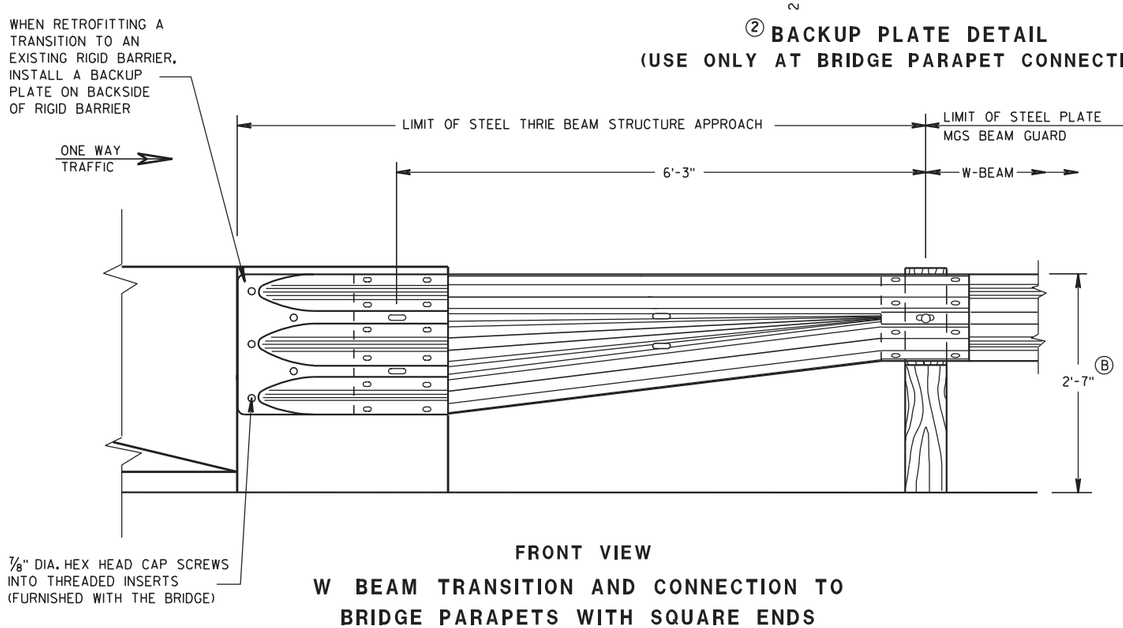


FRONT VIEW



SECTION F-F

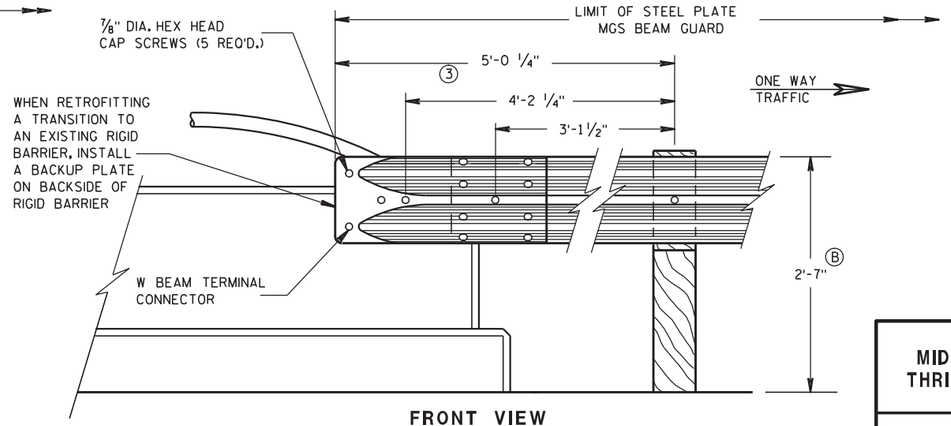
THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/2011 — DATE
/S/ Jerry H. [illegible] — ROADWAY STANDARDS ENGINEER
FHWA

1275

6

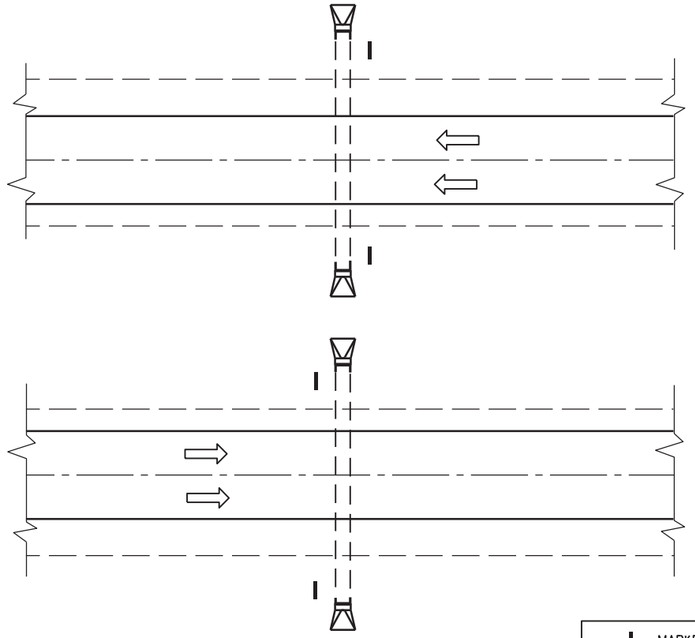
S.D.D. 14 B 45-1d

6

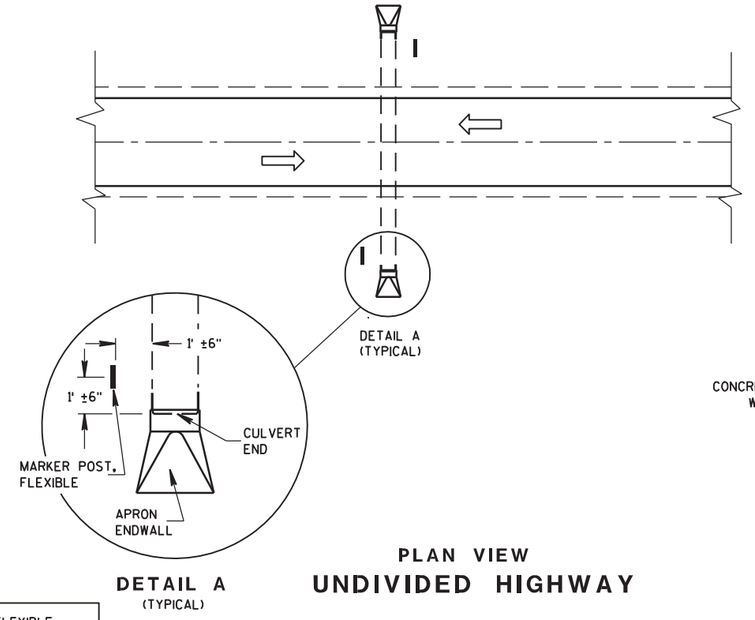
S.D.D. 14 B 45-1d

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW
DIVIDED HIGHWAY



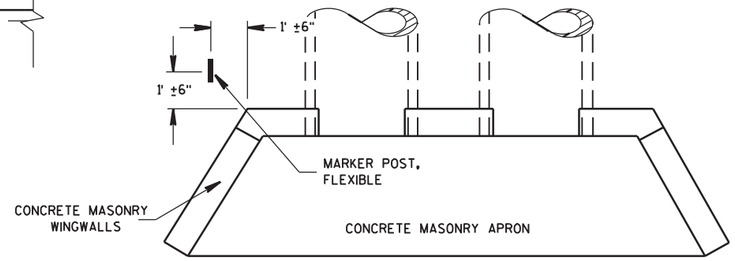
DETAIL A
(TYPICAL)

PLAN VIEW
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

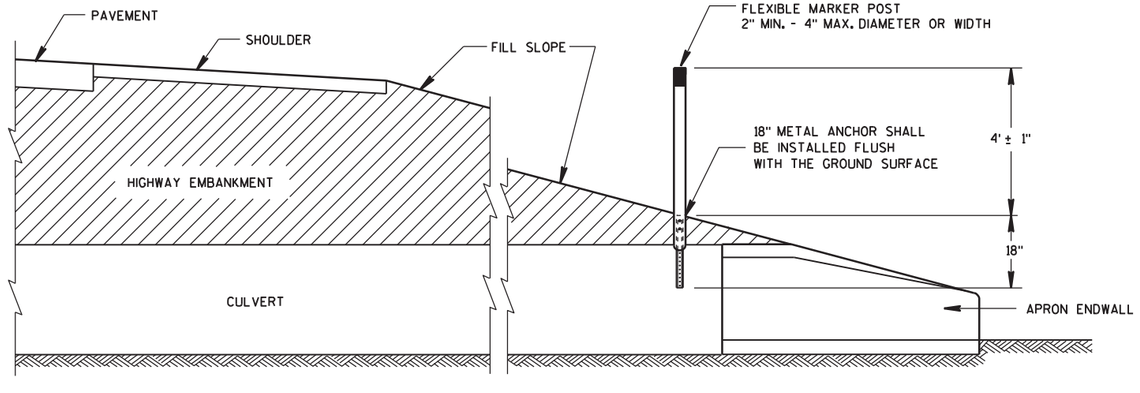
DIRECTION OF TRAFFIC FLOW

FLEXIBLE MARKER POST LOCATION

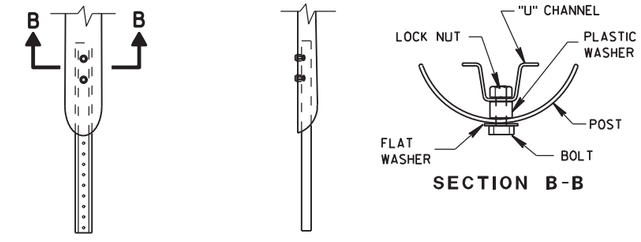


PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

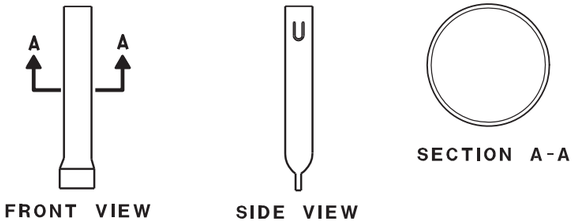


CROSS SECTION
FLEXIBLE MARKER POST



FRONT VIEW SIDE VIEW
CURVED MARKER

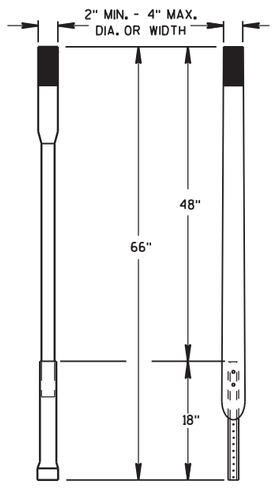
SECTION B-B



FRONT VIEW SIDE VIEW
ROUND MARKER

SECTION A-A

FLEXIBLE MARKER POST ANCHORS



ALTERNATE 1 ALTERNATE 2

FLEXIBLE MARKER POST

MARKER POST, FLEXIBLE, FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

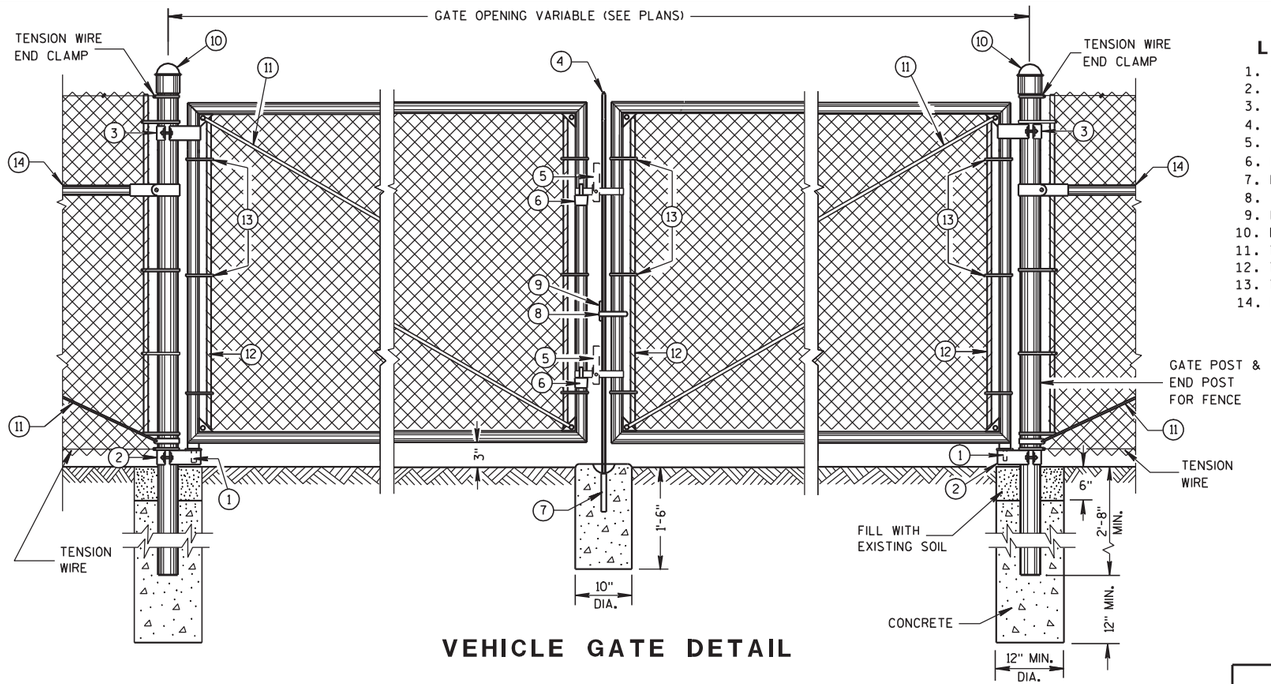
APPROVED
10/1/98
DATE

CHIEF ROADWAY DEVELOPMENT ENGINEER

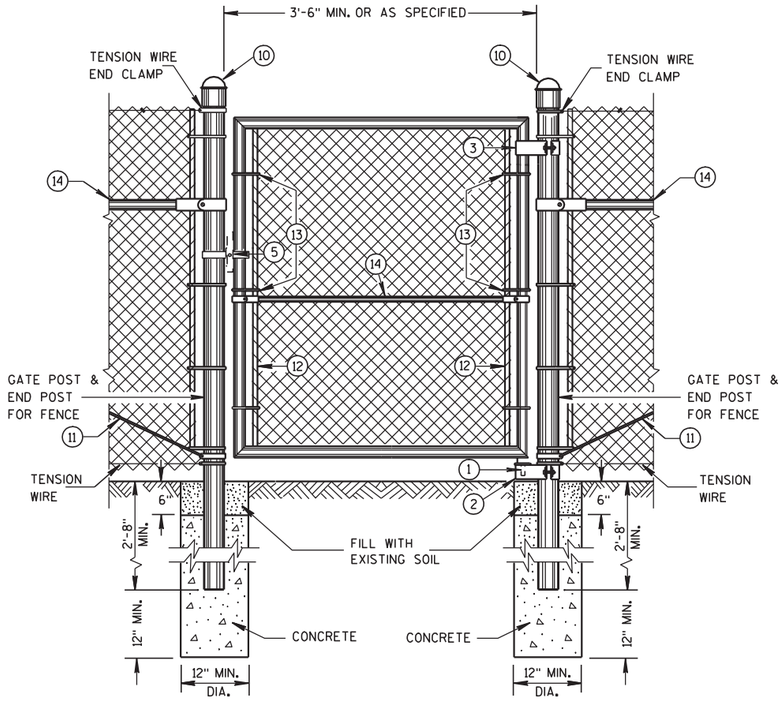
FHWA

6

S.D.D. 15 A 3-1



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

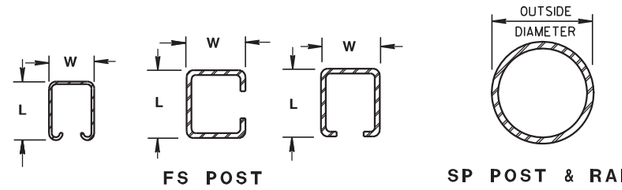
FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.



FS POST

SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

SHAPE, SIZE AND WEIGHT REQUIREMENTS FOR FORMED STEEL FENCE POST

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

SHAPE, SIZE AND WEIGHT REQUIREMENTS FOR ROUND STEEL FENCE POST

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

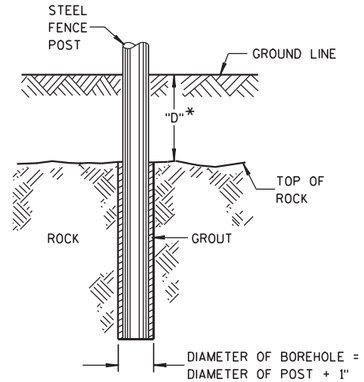
REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

FENCE CHAIN LINK

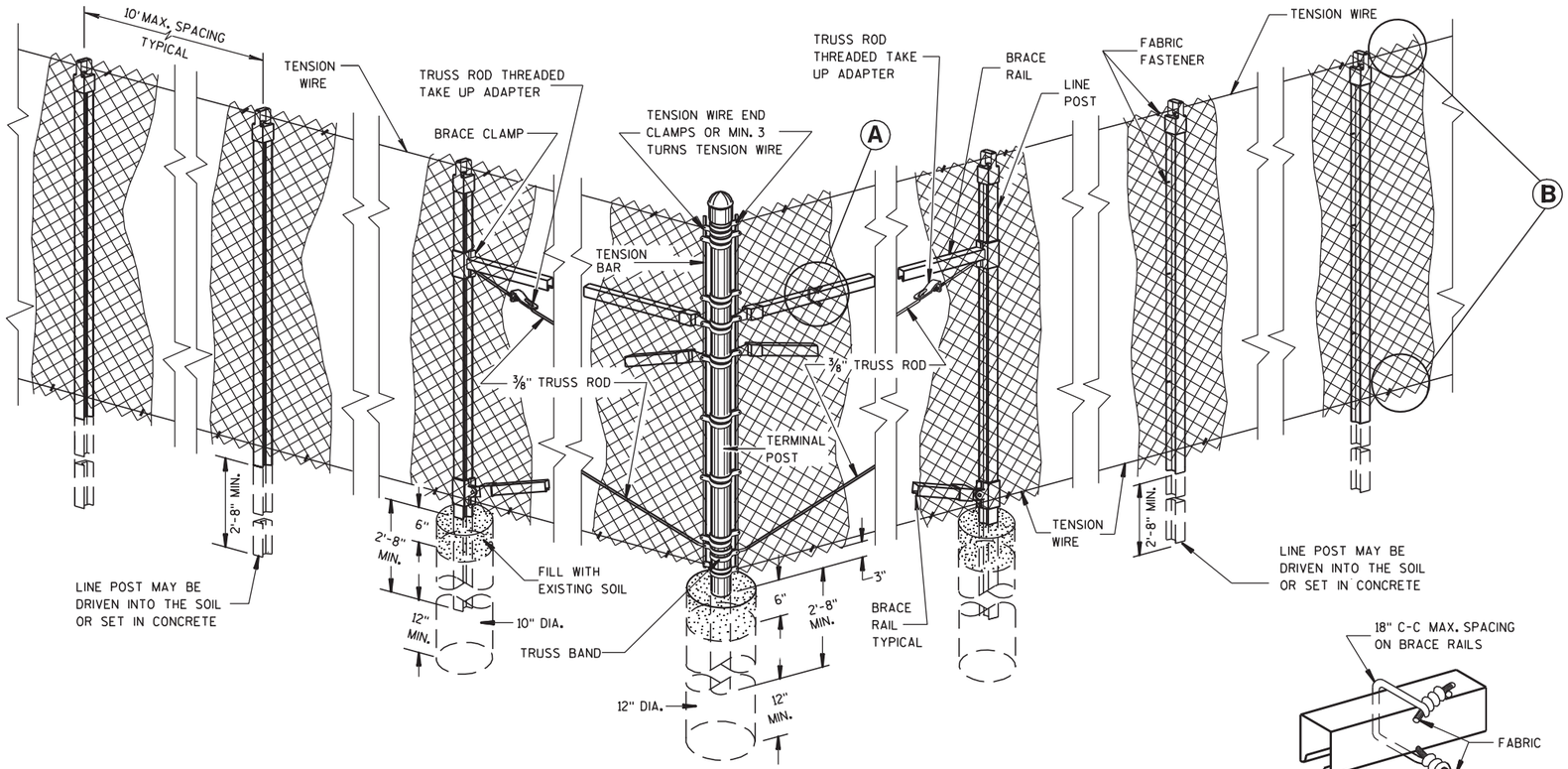
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 15 B 3-12a

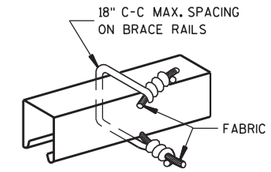


* IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST

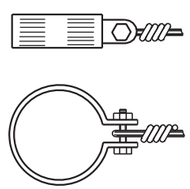


END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS

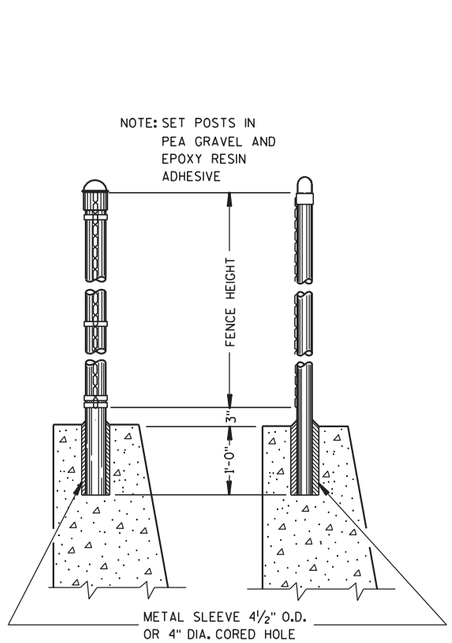


BRACE RAIL FABRIC FASTENER

Ⓐ

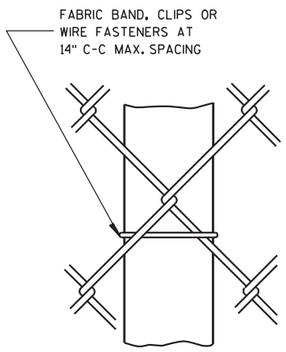


TENSION WIRE END CLAMP



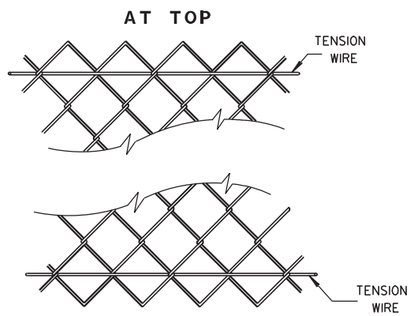
END POST & CORNER POST LINE POST

DETAILS OF FENCE ON WALL



LINE POST

FABRIC FASTENER



SELVAGES

Ⓑ

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

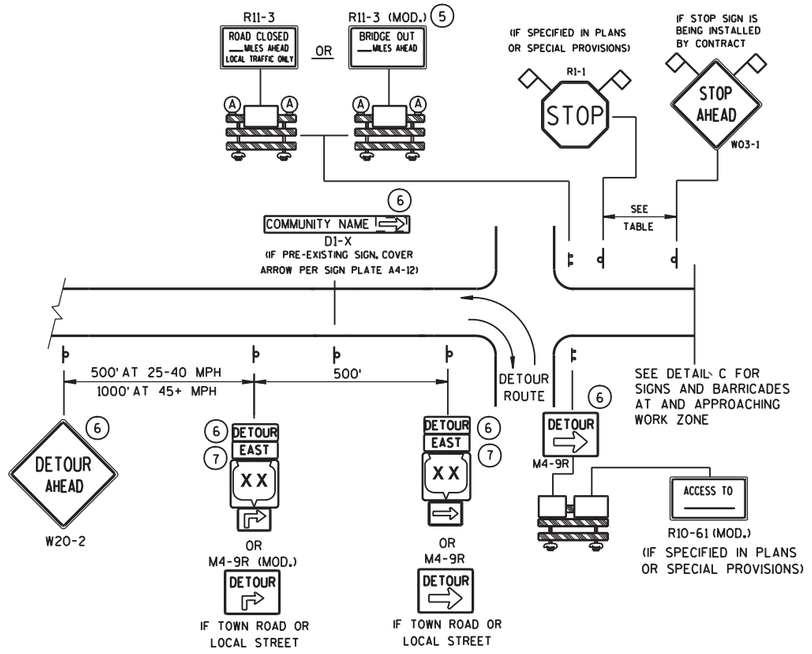
APPROVED
3/19/10 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 15 B 3-12b

6

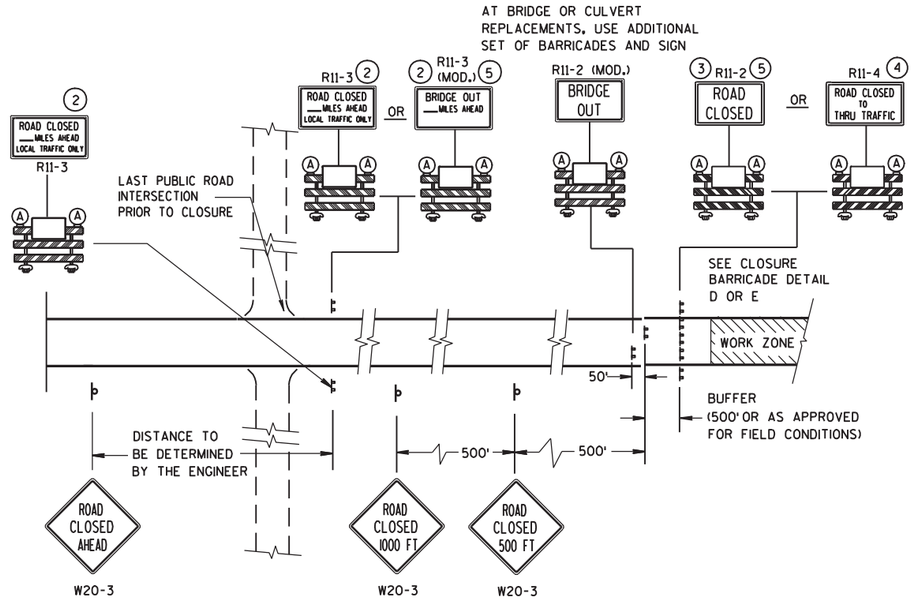
S.D.D. 15 B 3-12b



DETAIL A

MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

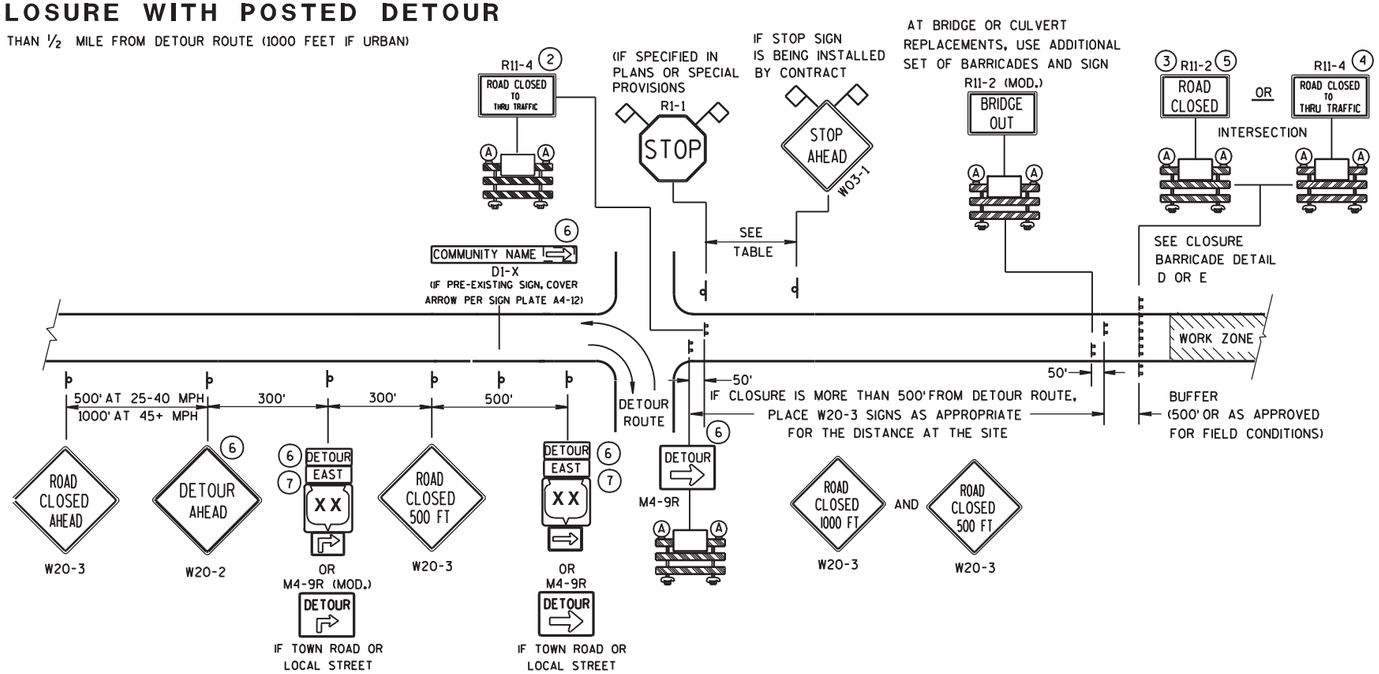


SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-4b
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

DETAIL C

MAINLINE CLOSURE, NO POSTED DETOUR



DETAIL B

MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- POST MOUNTED SIGN
- TYPE III BARRICADES
- (A) TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK ZONE
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

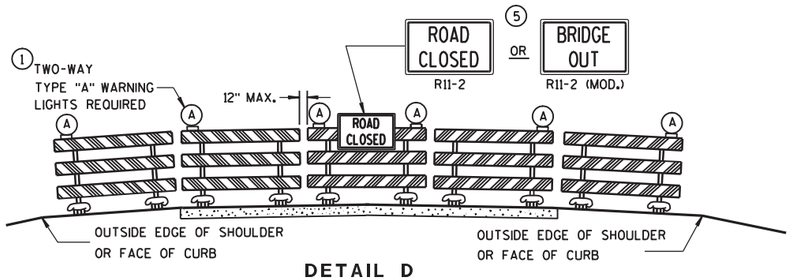
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 15 C 2-4a

6

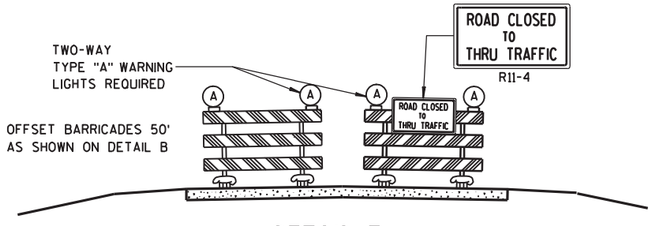
S.D.D. 15 C 2-4a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-4a FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3, R11-4, R10-61 AND R1-1 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X AND M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

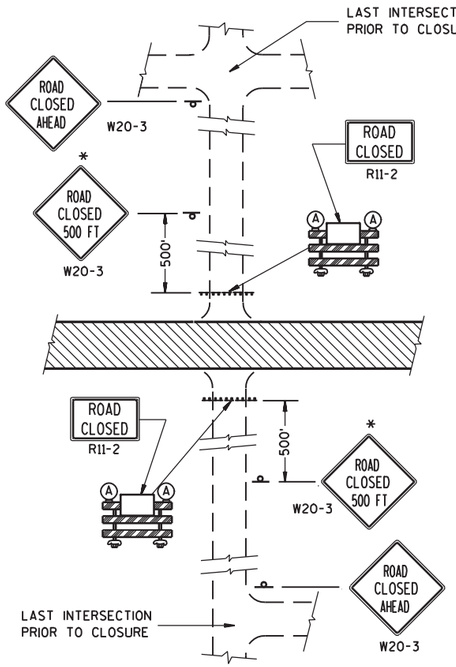
(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

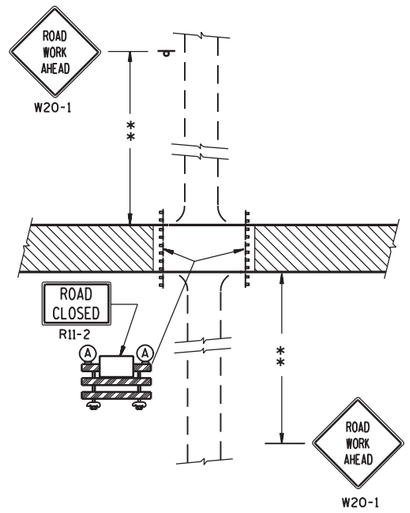
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/16/03
DATE
Thomas N. Nottbohm for
CHIEF SIGNS AND MARKING ENGINEER
FHWA



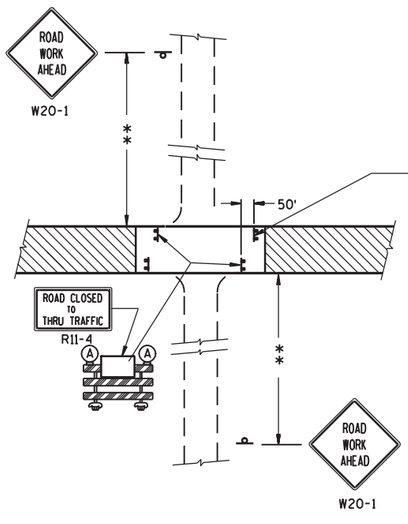
DETAIL 1

(NO ACCESS TO PROJECT)



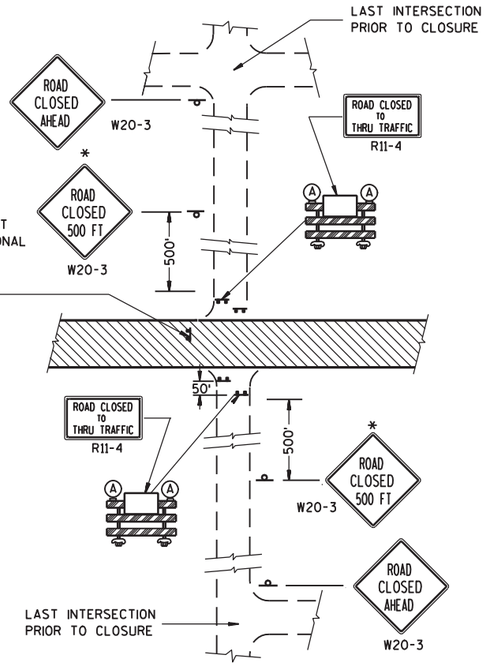
DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR,
LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3 AND R11-4 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- POST MOUNTED WARNING SIGN
- TYPE III BARRICADES
- (A) TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

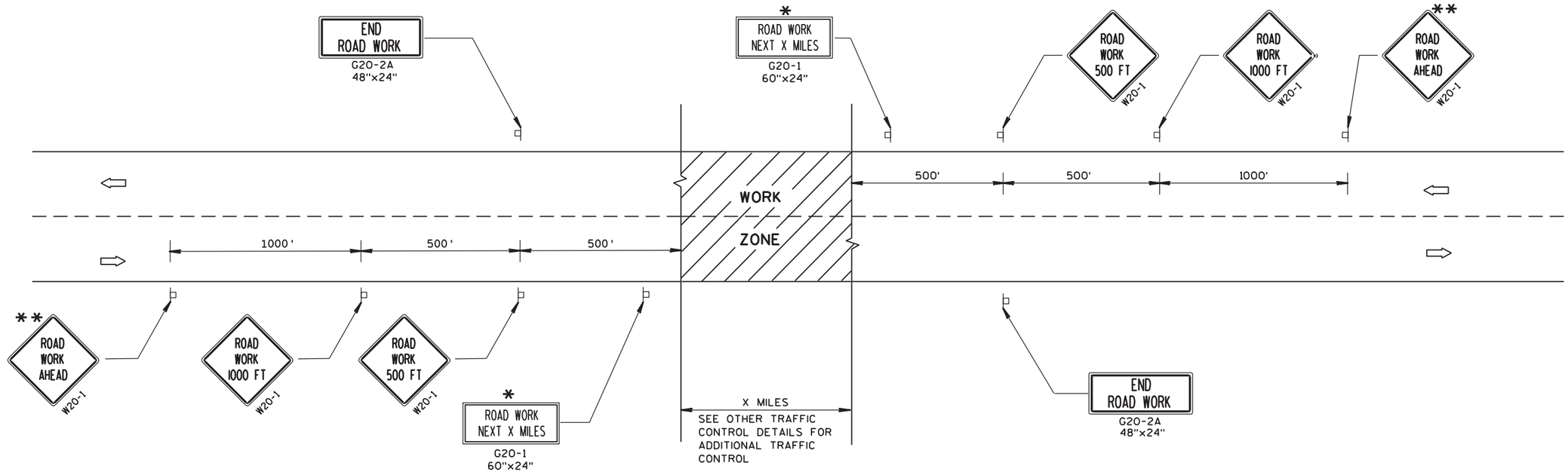
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-16-03
DATE
FHWA

Thomas N. Nottoli for
CHIEF SIGNS AND MARKING ENGINEER

6

S.D.D. 15 C 3-1



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GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

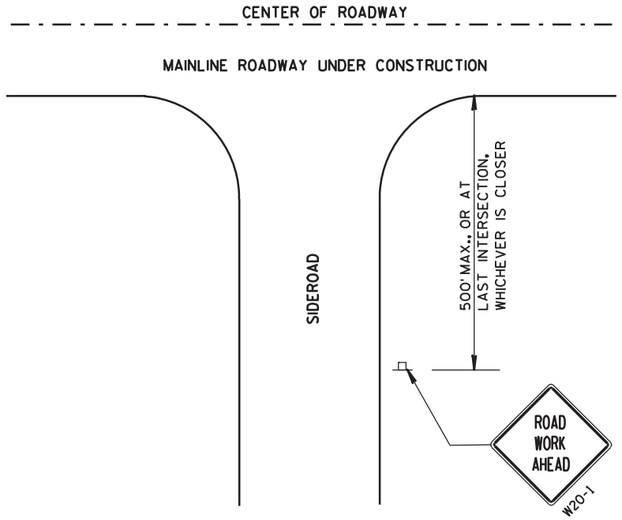
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA OR SIGNING.

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



LEGEND

POST MOUNTED SIGN

DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL,
ADVANCE WARNING SIGNS
45 M.P.H. OR GREATER
TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00
DATE

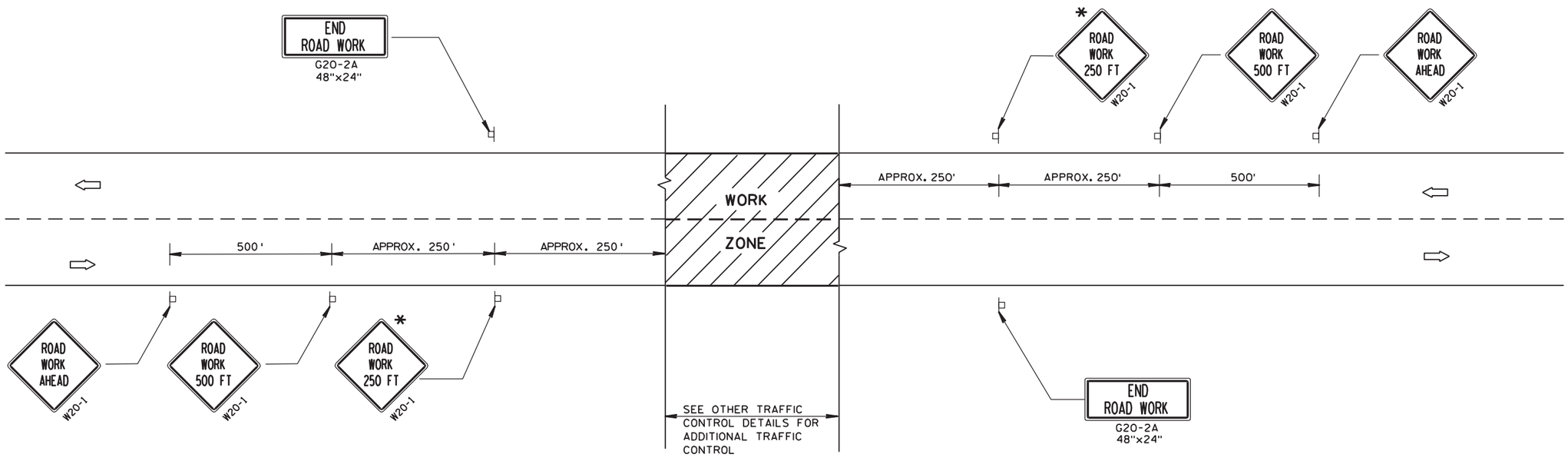
Chester J. Sparks
CHIEF SIGNS AND MARKING ENGINEER

FHWA

S.D.D. 15 C 4-1

6

S.D.D. 15 C 4-1



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

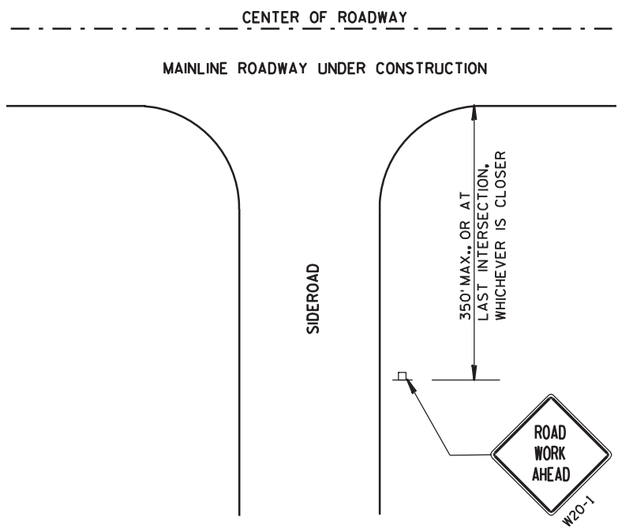
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS, IF APPROVED BY DISTRICT TRAFFIC UNIT.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



LEGEND

POST MOUNTED SIGN

DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL.
ADVANCE WARNING SIGNS
40 M.P.H. OR LESS
TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

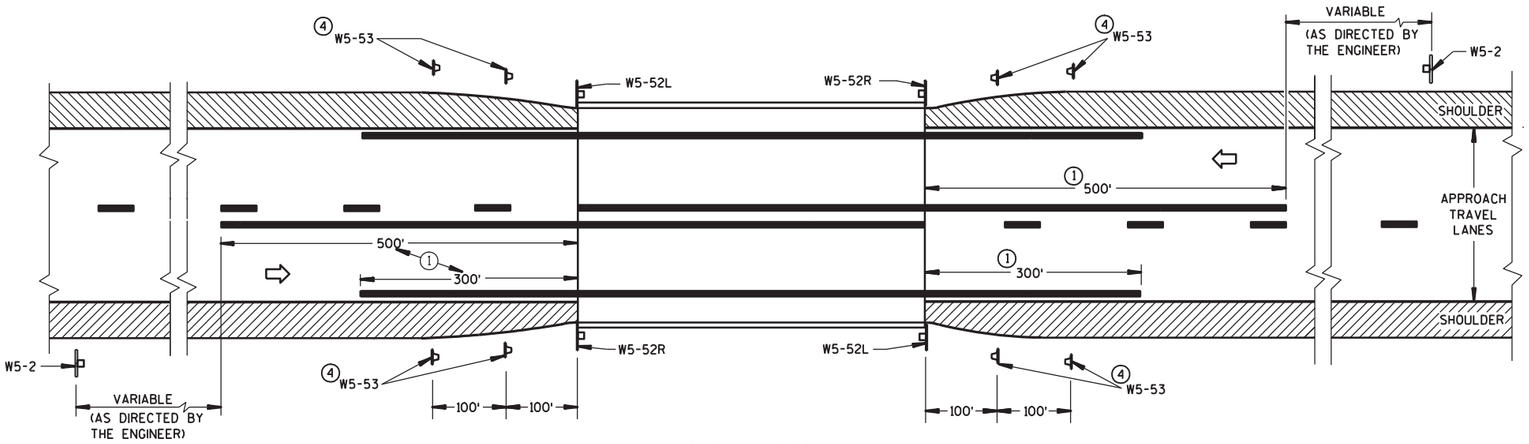
APPROVED
5/23/00
DATE

Chester J. Spang
CHIEF SIGNS AND MARKING ENGINEER

FHWA

6

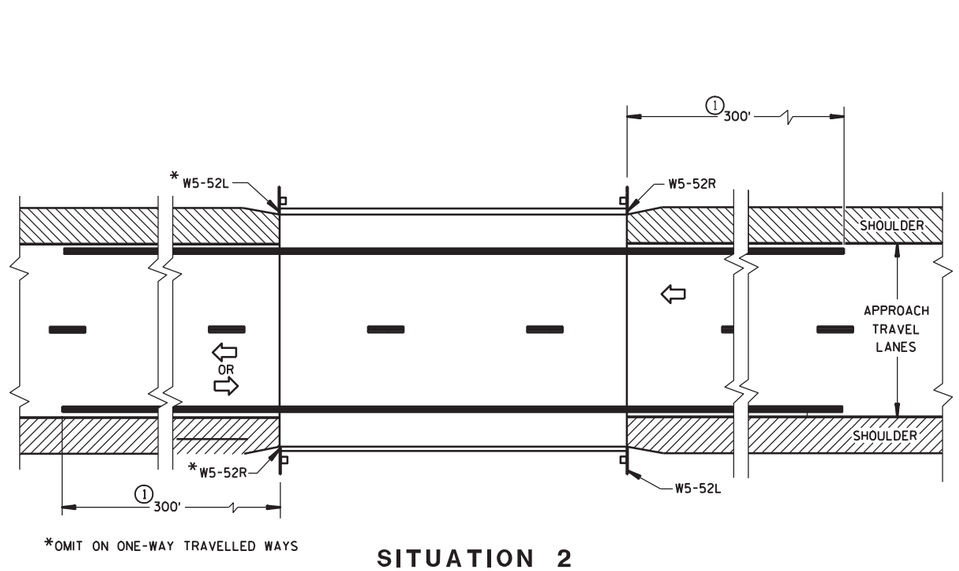
S.D.D. 15 C 5-1



SITUATION 1

WARRANTING CRITERION:

BRIDGE WIDTH IS AT LEAST 18 FEET BUT LESS THAN 24 FEET



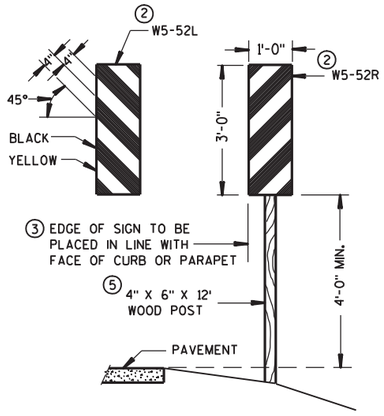
*OMIT ON ONE-WAY TRAVELLED WAYS

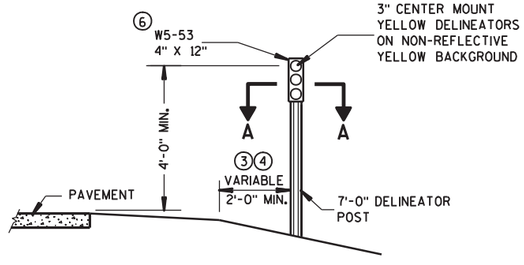
SITUATION 2

WARRANTING CRITERIA:

1. BRIDGE WIDTH IS AT LEAST 24 FEET AND

2. BRIDGE IS LESS THAN 6 FEET WIDER (ON EACH SIDE) THAN APPROACH TRAVEL LANES.





OBJECT MARKER PLACEMENT

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

PAVEMENT MARKING SHOWN ON THIS DRAWING IS NOT REQUIRED UNLESS OTHERWISE SPECIFIED IN THE CONTRACT. WHEN SPECIFIED, PAVEMENT MARKING SHALL CONFORM TO THIS DRAWING AND OTHER CONTRACT REQUIREMENTS.

① MINIMUM DISTANCE UNLESS OTHERWISE SHOWN ON THE PLAN.

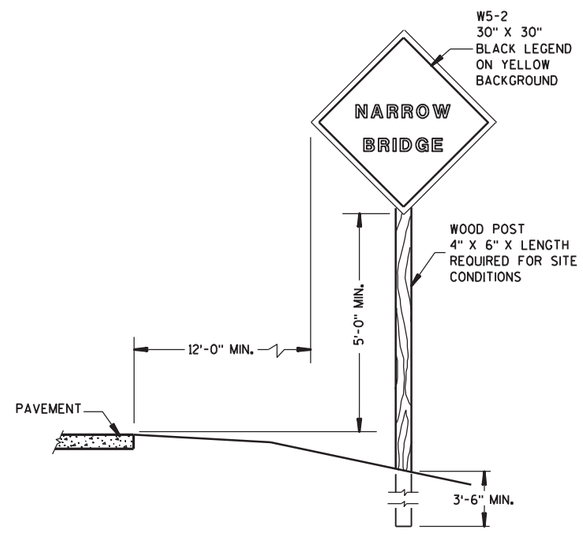
② FACE OF OBJECT MARKERS W5-52R AND W5-52L SHALL BE COVERED WITH TYPE H REFLECTIVE SHEETING.

③ LOCATE OBJECT MARKER POST(S) BEHIND GUARDRAIL WHEN PRESENT.

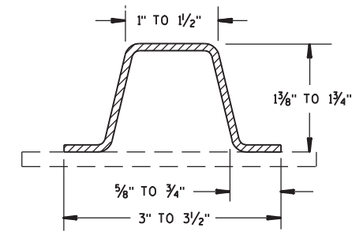
④ OBJECT MARKERS (W5-53) SHALL BE LOCATED ALONG A LINE FLARED AWAY FROM THE BRIDGE CORNER TO DELINEATE THE NARROWING OF THE SHOULDER OR BERM.

⑤ A 12 FOOT DELINEATOR POST MAY BE USED INSTEAD OF A WOOD POST.

⑥ NON-BID ITEM. INCIDENTAL TO OTHER ITEMS.



SIGN PLACEMENT



SECTION A-A

(MINIMUM WEIGHT 1.9 LBS. PER FT. AFTER GALVANIZING)

SIGNING & MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/5/06 — DATE
/S/ Thomas N. Notbohm — STATE TRAFFIC ENGINEER OF DESIGN
FHWA

6

S.D.D. 15 C 6-5

6

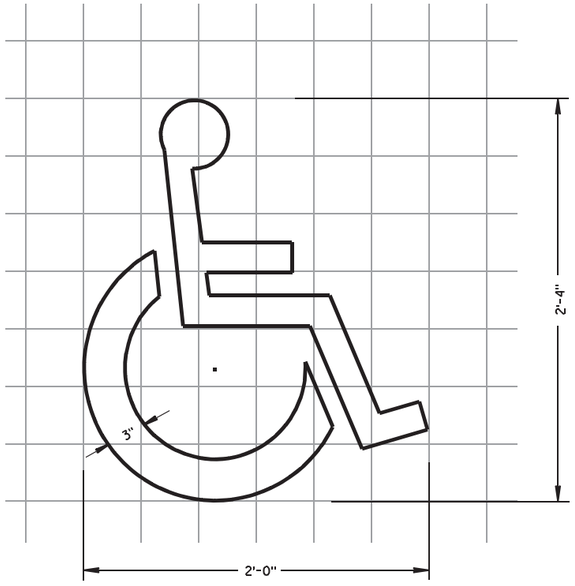
S.D.D. 15 C 6-5

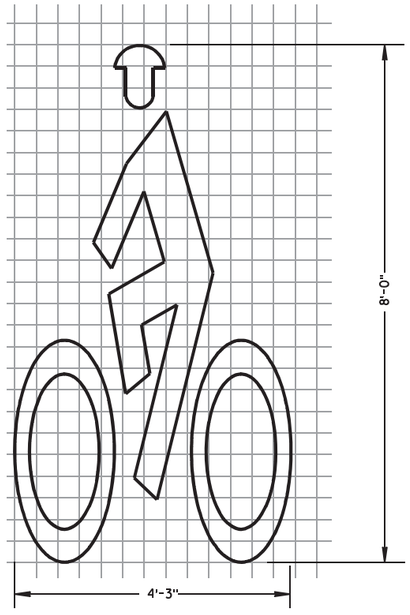
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

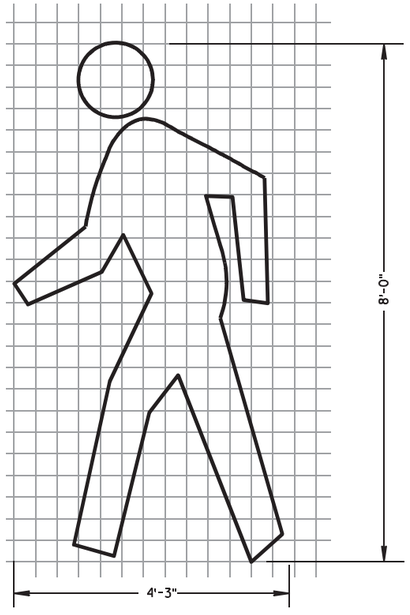
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

A DETAILED DRAWING OF THE HANDICAPPED PARKING SYMBOL IS ILLUSTRATED IN THE "STANDARD HIGHWAY SIGNS MANUAL" BY THE FEDERAL HIGHWAY ADMINISTRATION.

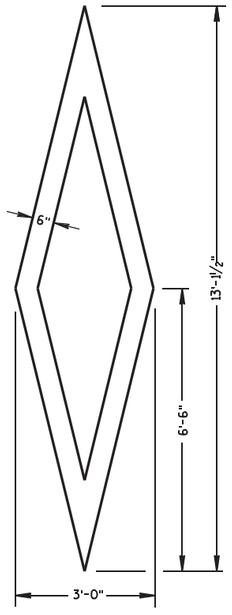




BIKE CROSSING SYMBOL



PEDESTRIAN SYMBOL



PREFERENTIAL LANE SYMBOL

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/13/10
DATE

/S/ Thomas N Notbohm
STATE TRAFFIC ENGINEER OF DESIGN

FHWA

6

S.D.D. 15 C 7-11a

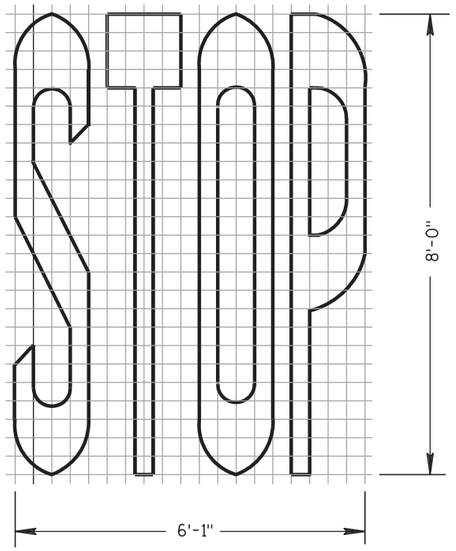
6

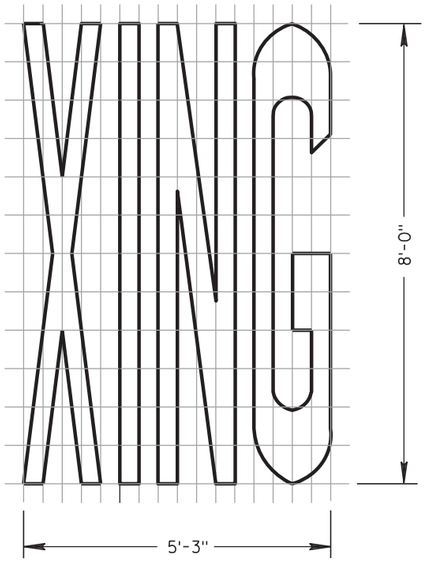
S.D.D. 15 C 7-11a

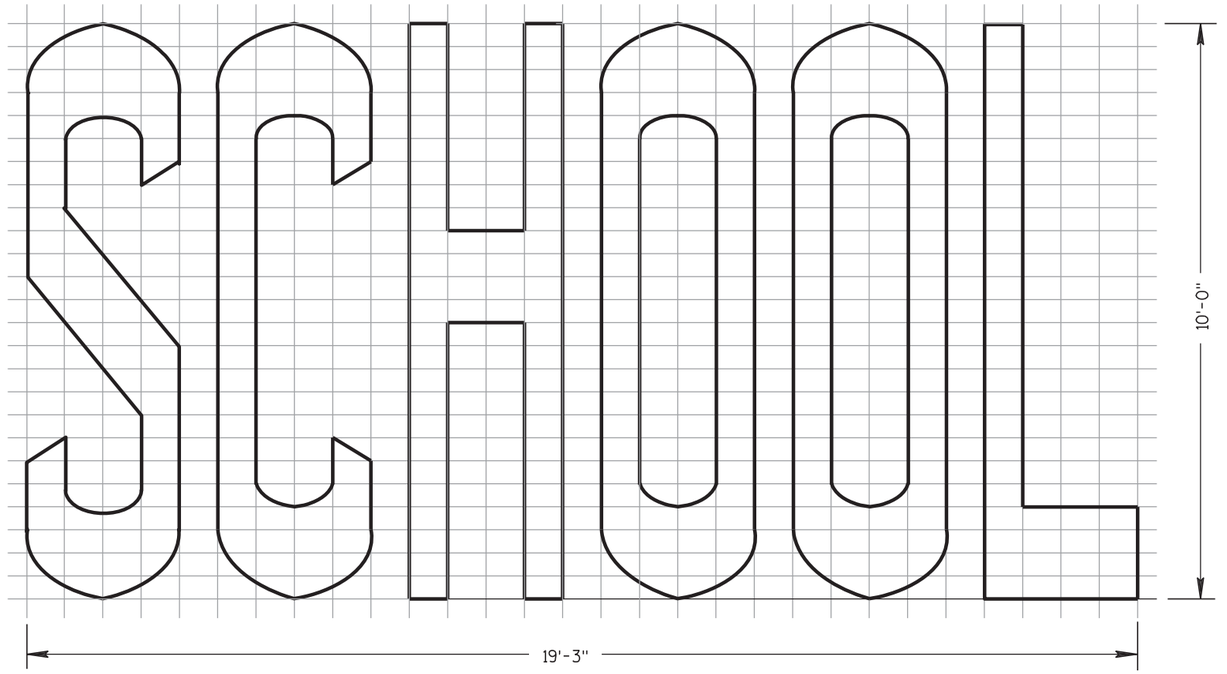
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

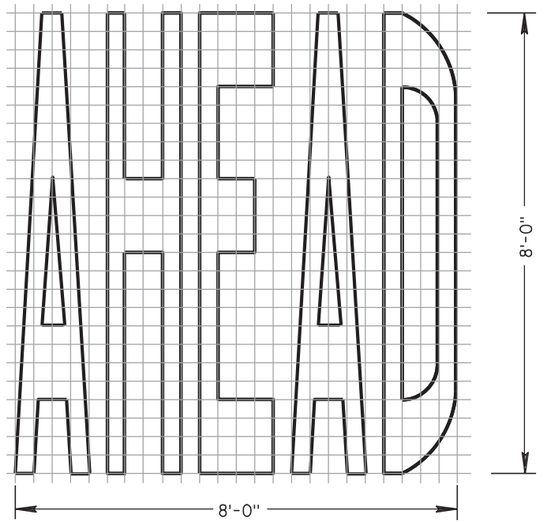
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.

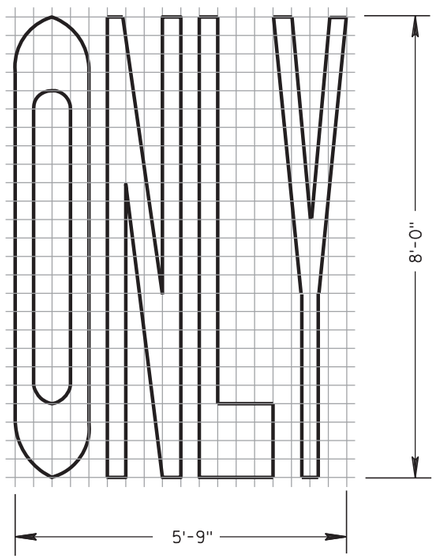


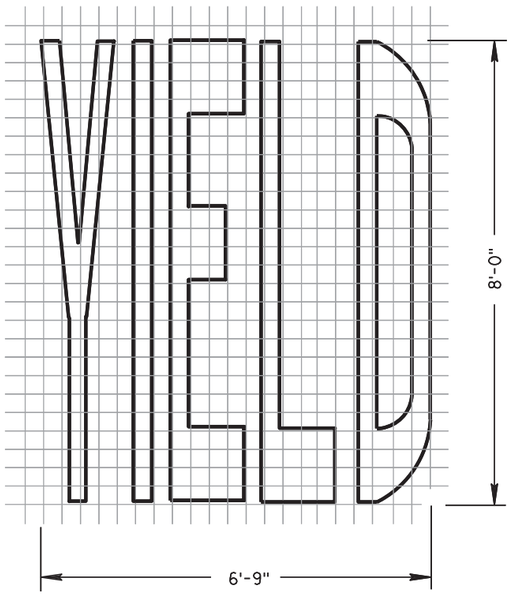


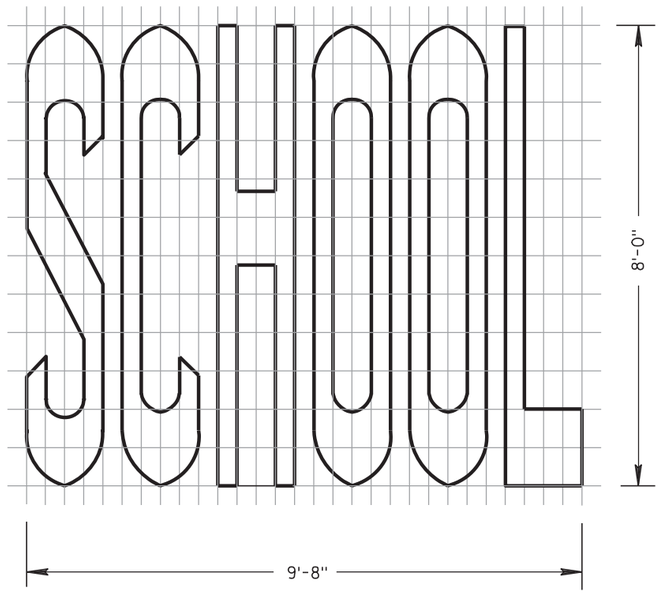


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 — DATE

/S/ Thomas N. Nothohm — STATE TRAFFIC ENGINEER

286

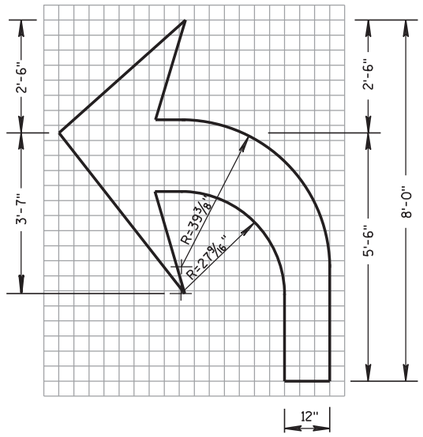
FHWA

6

S.D.D. 15 C 7-12b

6

S.D.D. 15 C 7-12b



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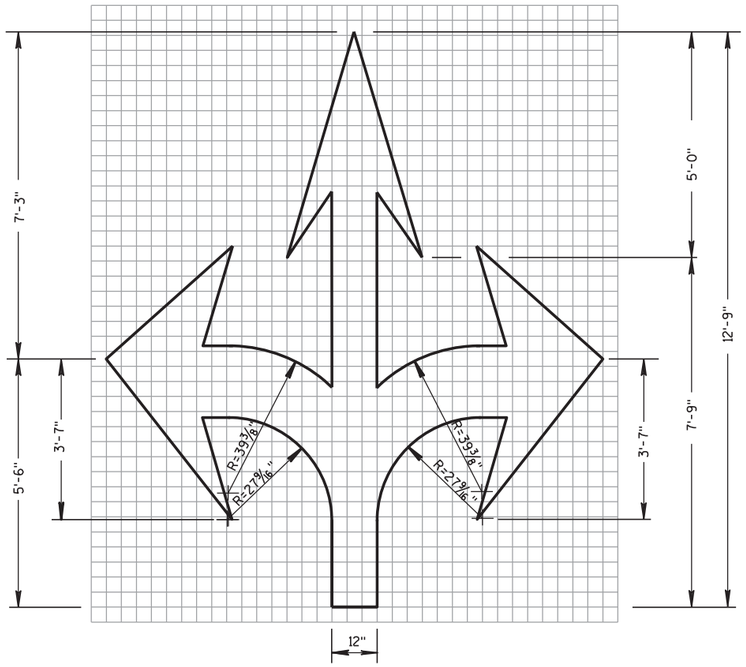

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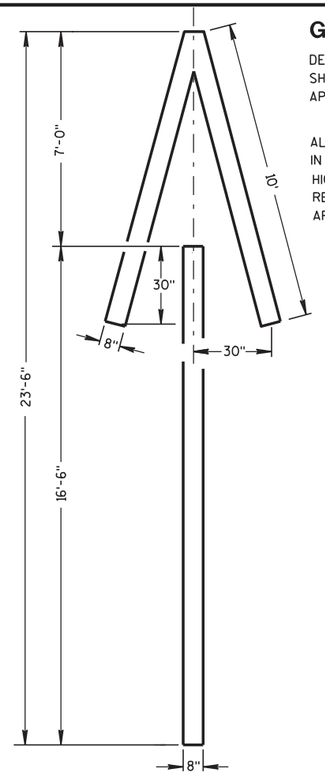
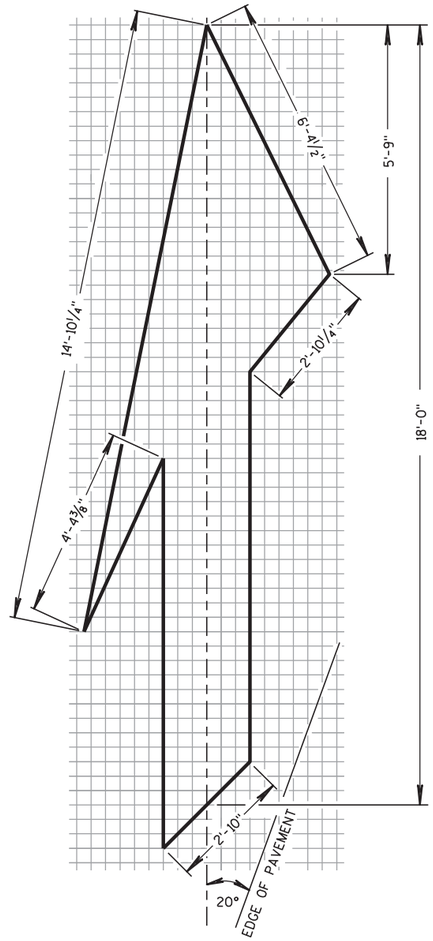


TYPE 4

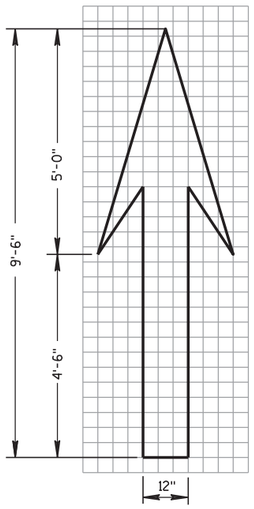
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

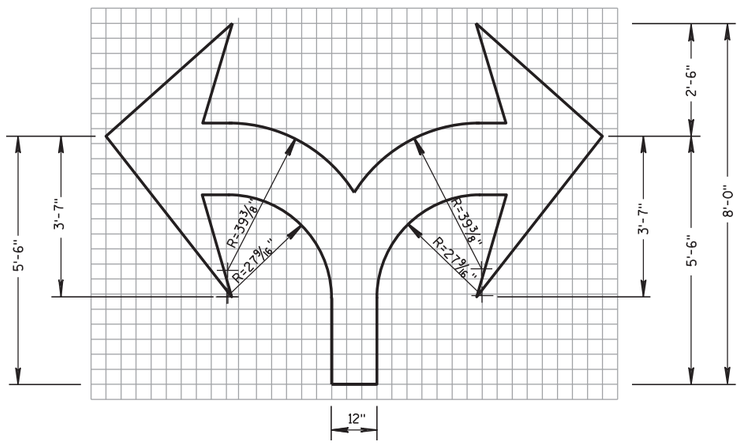
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



TYPE 5 LANE DROP ARROW



TYPE 1



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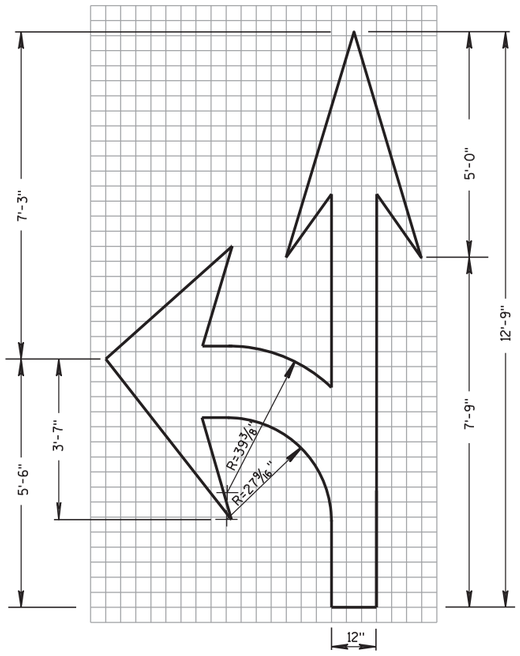


TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 DATE

/S/ Thomas N. Nothdurm
STATE TRAFFIC ENGINEER 287 SIGN

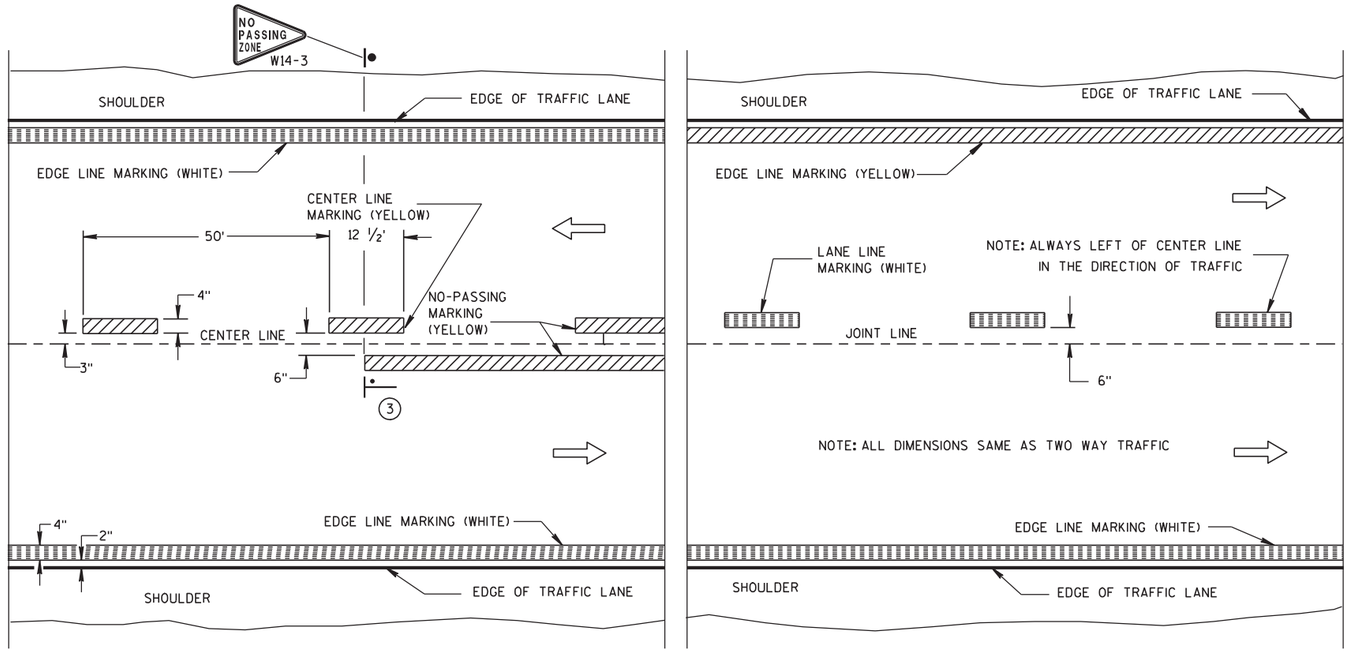
FHWA

6

S.D.D. 15 C 7-12c

6

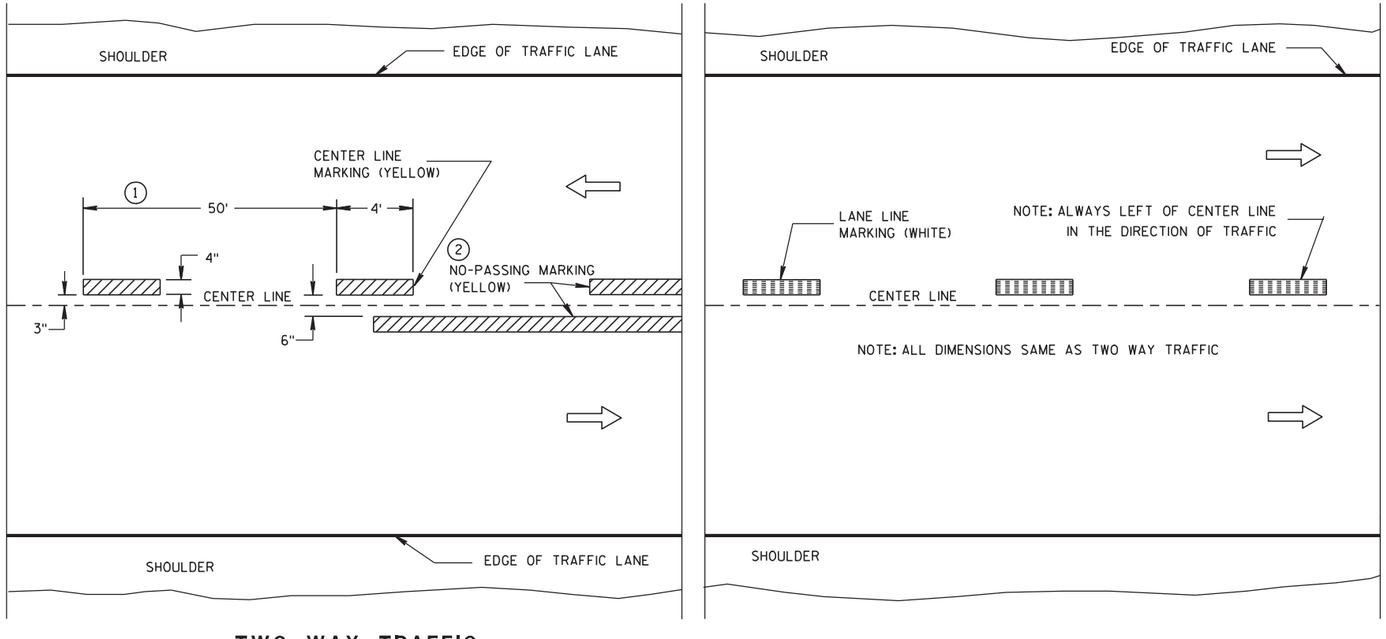
S.D.D. 15 C 7-12c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC

ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

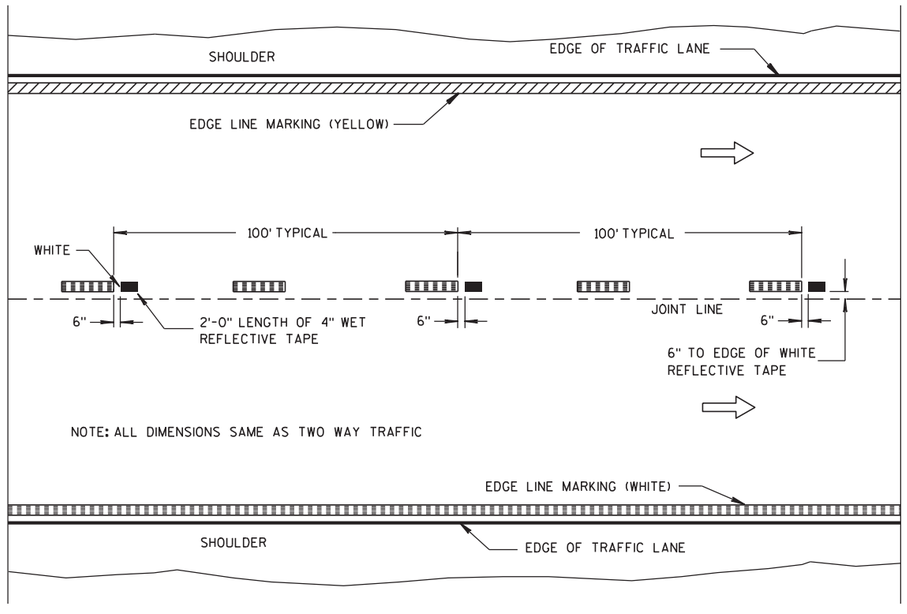
1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.

2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.

3. NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.

NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

"T" MARKING

POST MOUNTED SIGN

PAVEMENT MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

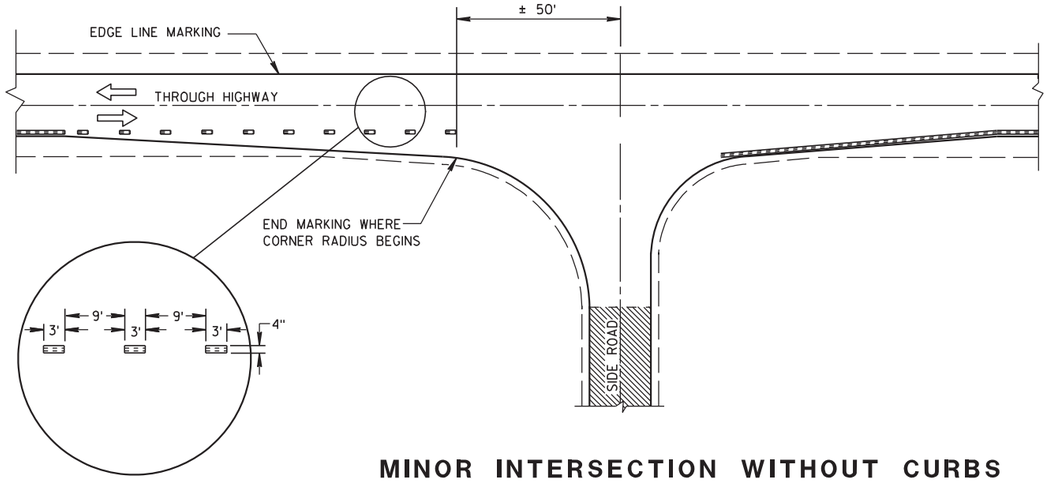
APPROVED
6-23-11 DATE
/S/ Thomas N. Notbohm
STATE TRAFFIC ENGINEER
288 DESIGN
FHWA

6

S.D.D. 15 C 8-14a

6

S.D.D. 15 C 8-14a



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.

(4) THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

(5) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(6) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

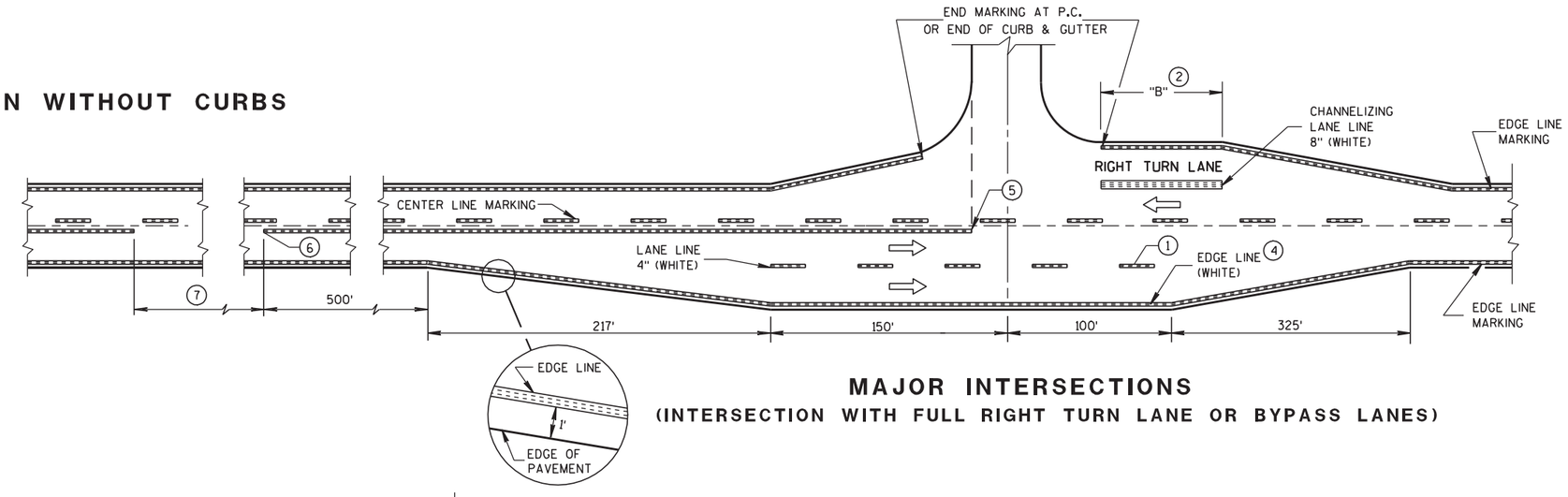
(7) IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.

(8) 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

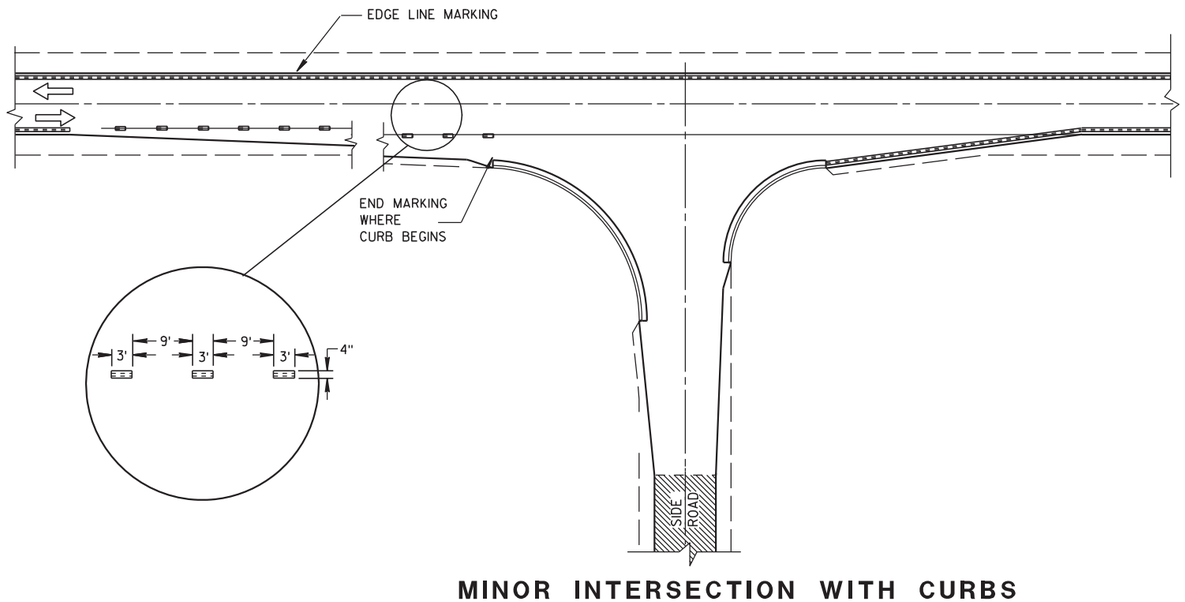
ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

(7)

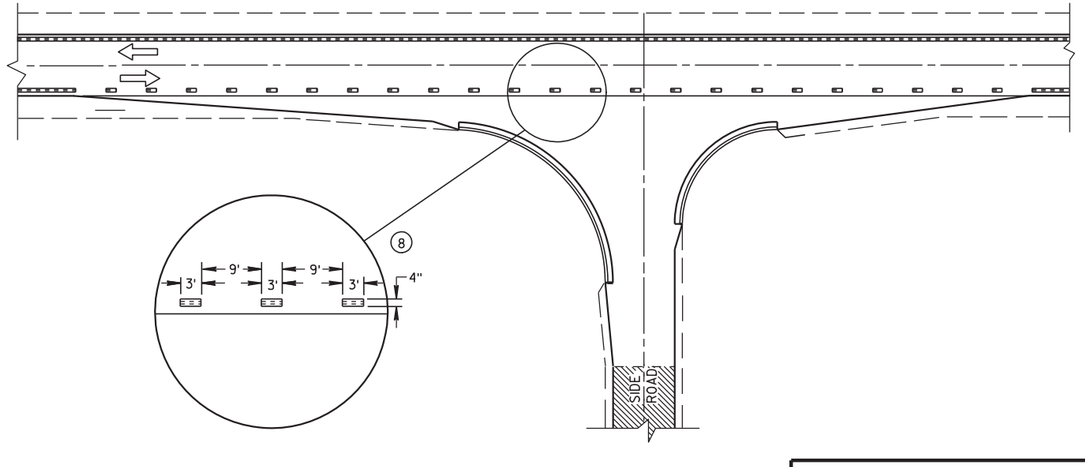
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS
(3) (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

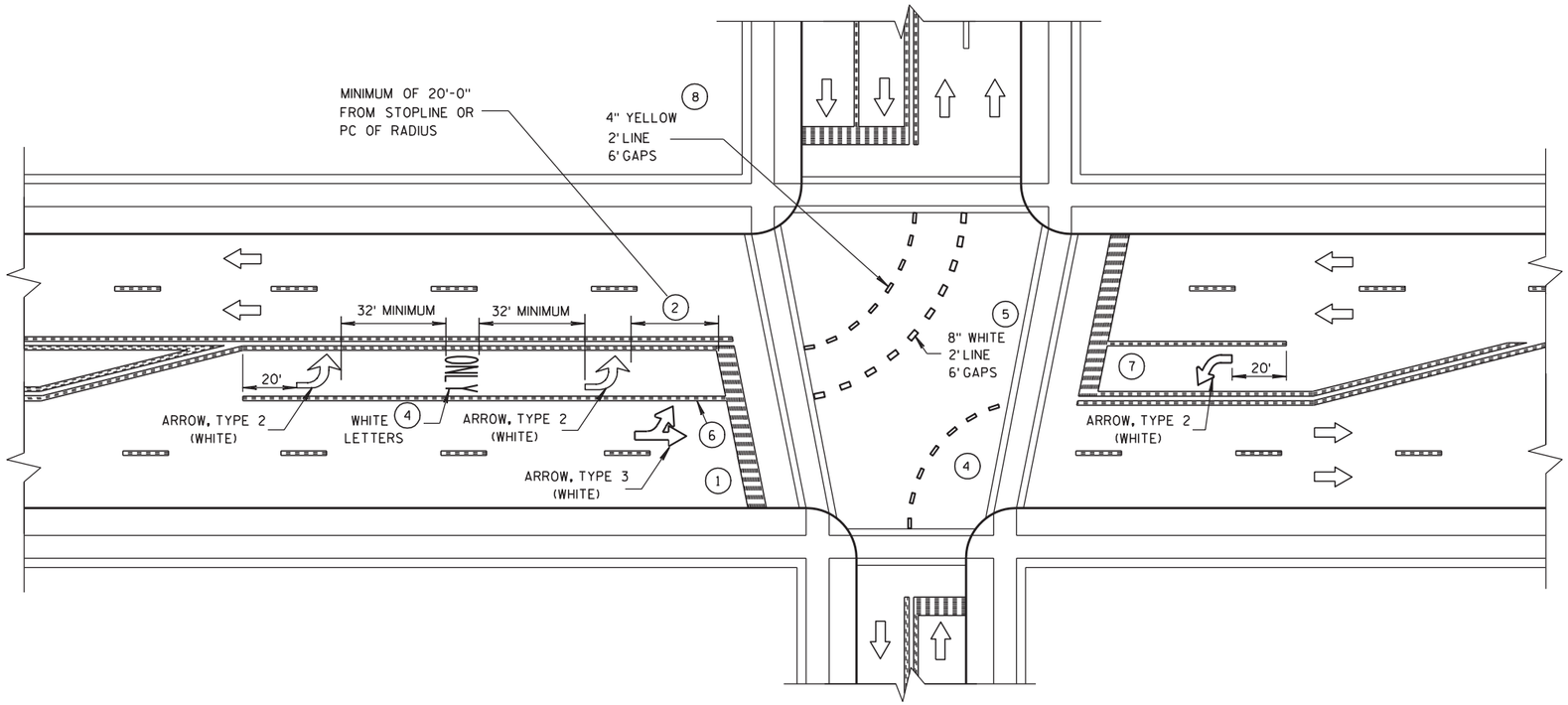
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 15 C 8-14b

6

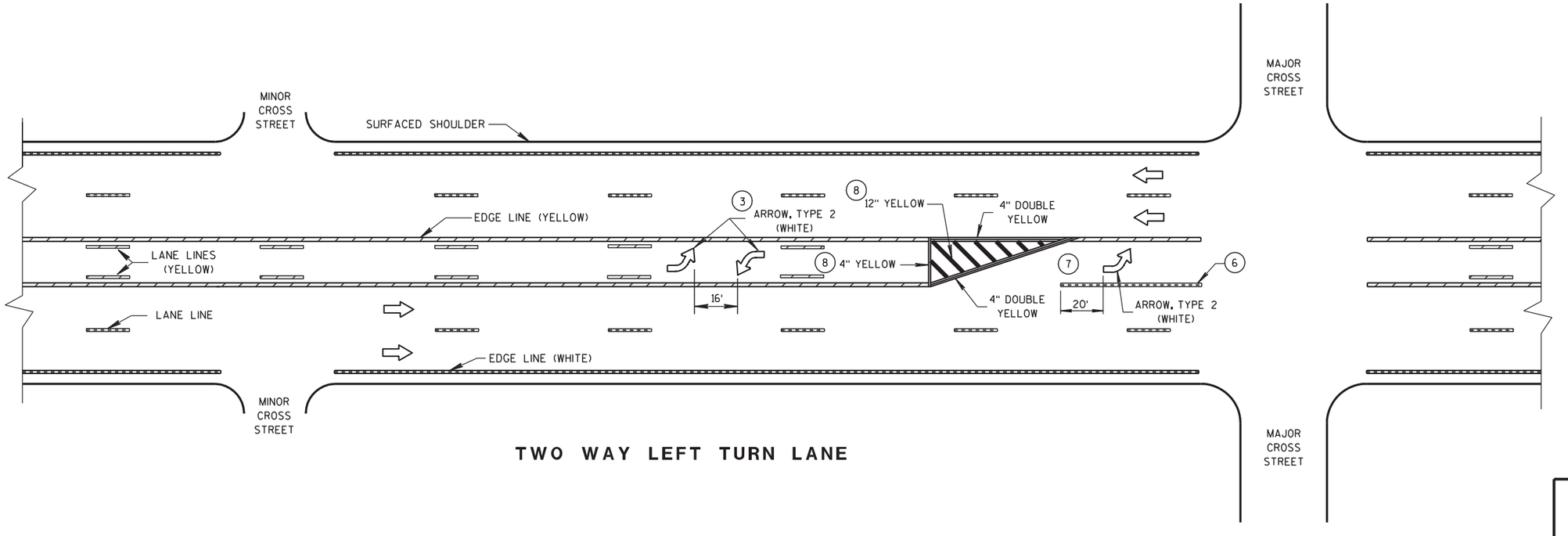
S.D.D. 15 C 8-14b



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400' OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA ARROW AND ONLY PER 160' OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108'.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING
(LEFT TURN LANE)

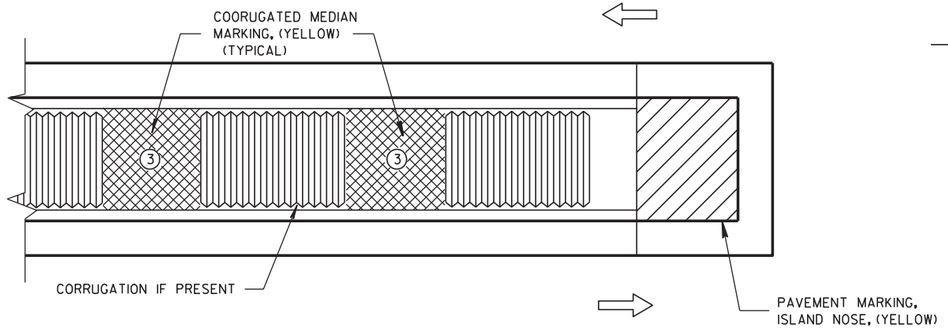
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

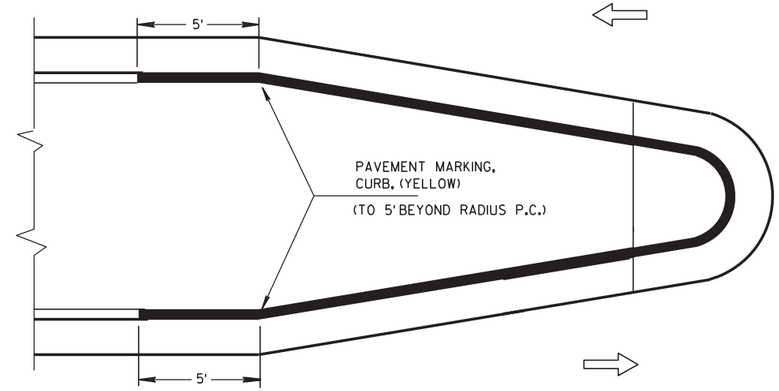
S.D.D. 15 C 8-14e

6

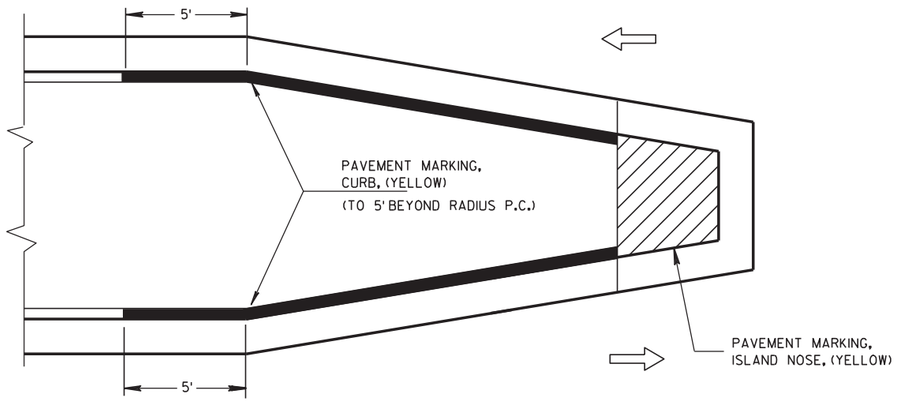
S.D.D. 15 C 8-14e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

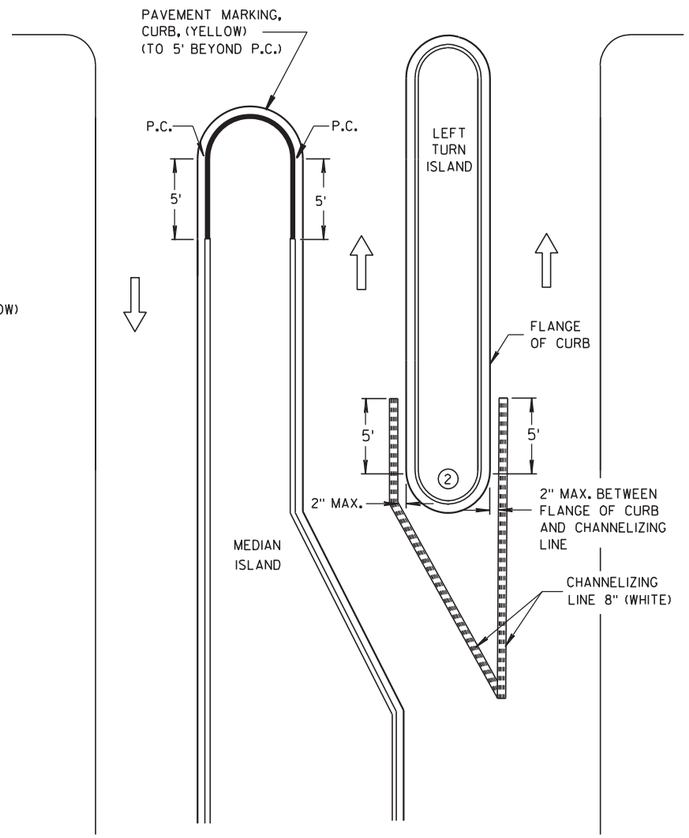


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

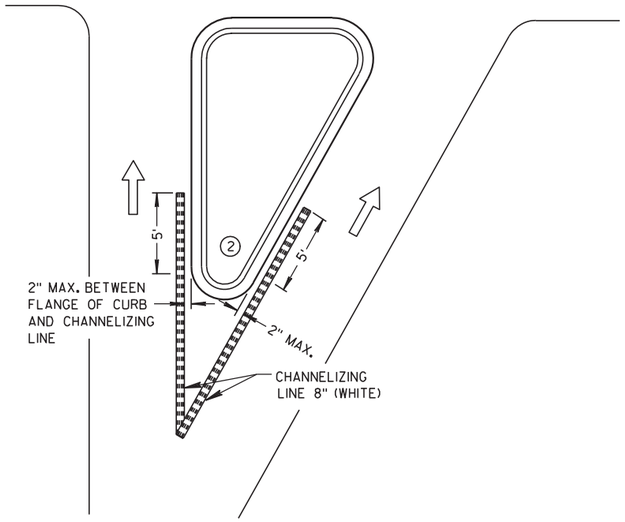
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



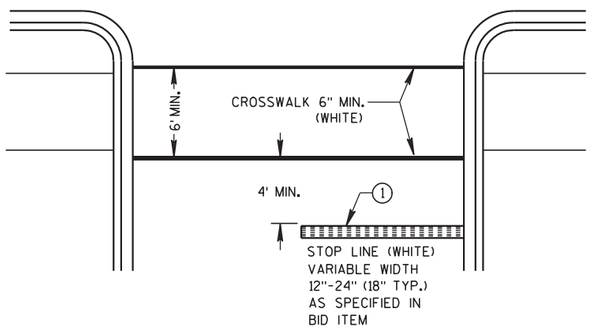
LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. STOP LINE IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
3. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND



STOP LINE AND CROSSWALK

LEGEND

- ISLAND NOSE MARKING
- CURB MAKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 15 C 8-14f

6

S.D.D. 15 C 8-14f

TWO-LANE ROADWAY

SYMBOLS

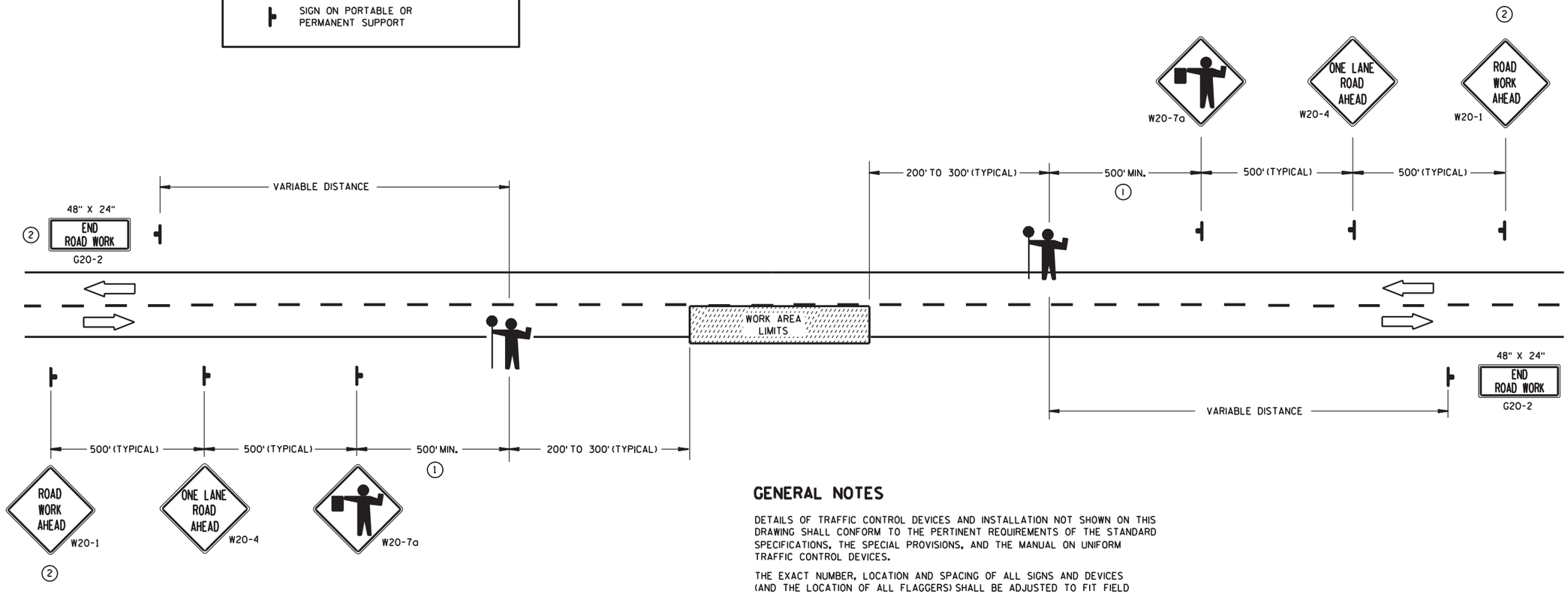
WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN ON PORTABLE OR PERMANENT SUPPORT

W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/5/06	/S/ Thomas N. Notbohm
DATE	STATE TRAFFIC ENGINEER OF DESIGN

FHWA

6

S.D.D. 15 C 12-3

6

S.D.D. 15 C 12-3

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

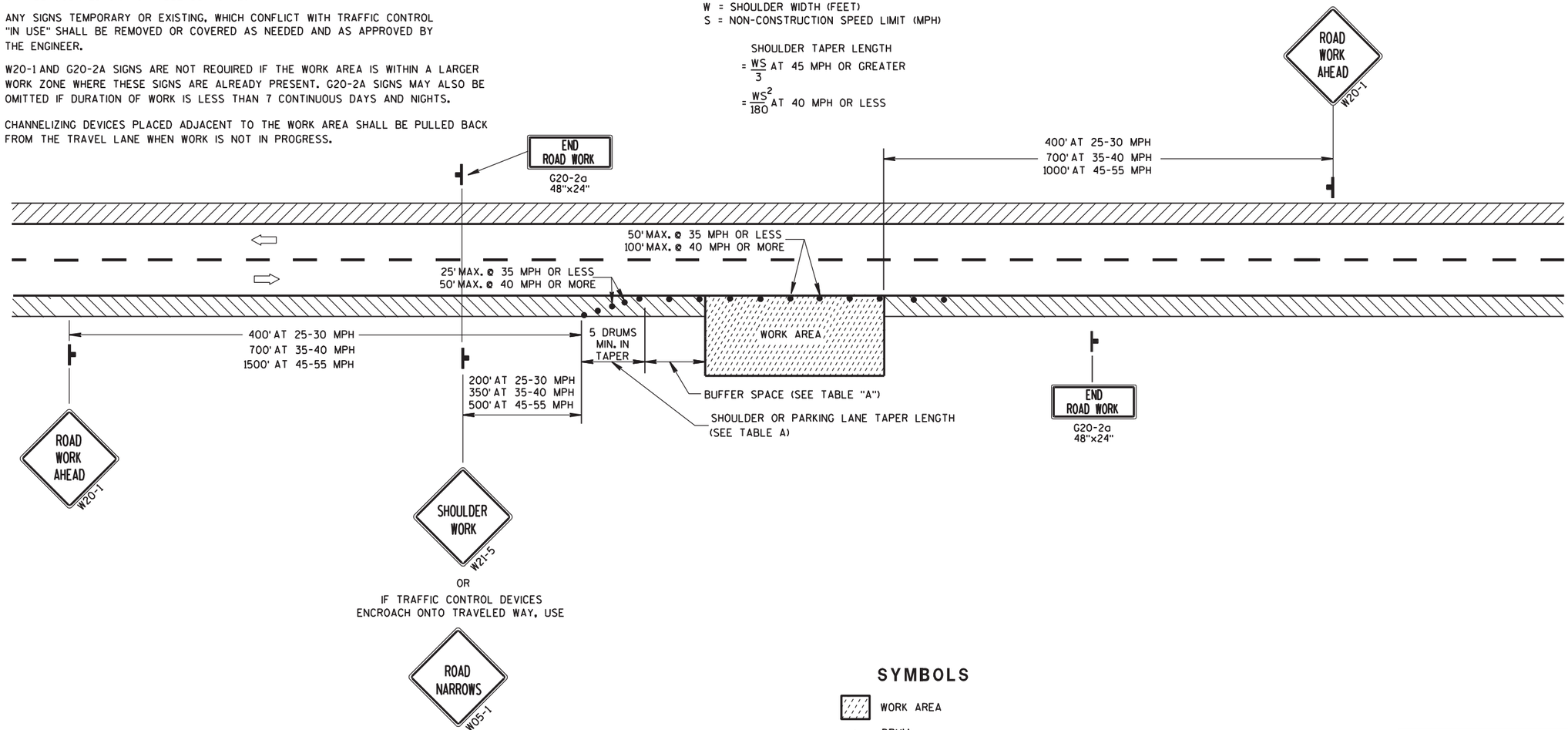
CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

S \ W	SHOULDER TAPER LENGTH (FEET) 4	6	8	10	BUFFER SPACE (FEET)
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
$= \frac{WS}{3}$ AT 45 MPH OR GREATER
$= \frac{WS^2}{180}$ AT 40 MPH OR LESS



SYMBOLS

- WORK AREA
- DRUM
- POST MOUNTED SIGN
- DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00
DATE

Chester J. Sprang
CHIEF SIGNS AND MARKING ENGINEER

FHWA

6

S.D.D. 15 D 28-1

6

S.D.D. 15 D 28-1

S	BUFFER SPACE (DESIRABLE)
25	55'
30	85'
35	120'
40	170'
45	220'
50	280'
55	335'

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

END ROAD WORK
G20-2A
48"x24"

NO PASSING ZONE
W14-3
48"x36"

BEGIN TEMPORARY PAVEMENT MARKING, 4-INCH SOLID YELLOW CENTERLINE ✳✳

BEGIN TEMPORARY PAVEMENT MARKING, 4-INCH WHITE EDGELINE

1000' 500' 500' 200' 50' 50' 25' TYP.

W01-6 48"x24" ✳✳✳

R11-2 48"x30" ROAD CLOSED (A)
TYPE III BARRICADE

FOR BRIDGE OR CULVERT REPLACEMENTS SUBSTITUTE
BRIDGE OUT
R11-2 (MOD) 48"x30"

ROAD CLOSURE OR BRIDGE/CULVERT REPLACEMENT

BUFFER SPACE (SEE TABLE)

WORK AREA

TEMPORARY STEEL PLATE BEAM GUARD AND END TREATMENT WHEN INCLUDED IN THE CONTRACT. FOR LAYOUT, SEE DETAILS ELSEWHERE IN THE PLAN.

W5-52L 12"x36"
W5-52R 12"x36"

ROAD WORK AHEAD W20-1

ROAD WORK 1000 FT W20-1

W01-4R / W01-3R OR W01-4L / W01-3L
W013-1 XX M.P.H. 24"x24"

END TEMPORARY PAVEMENT MARKING, 4-INCH WHITE EDGELINE

TEMPORARY PAVEMENT MARKING, 4-INCH WHITE EDGELINES. (USE REMOVABLE TAPE WHERE TEMPORARY MARKING CROSSES PERMANENT PAVEMENT)

TEMPORARY PAVEMENT MARKING, 4-INCH DOUBLE YELLOW CENTERLINE AND 2-WAY YELLOW RAISED PAVEMENT MARKERS AT 25' SPACING. (USE REMOVABLE TAPE WHERE TEMPORARY MARKING CROSSES PERMANENT PAVEMENT)

END TEMPORARY PAVEMENT MARKING, 4-INCH SOLID YELLOW CENTERLINE ✳✳

GENERAL NOTES :

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED.

EQUIPMENT, VEHICLES, OR MATERIAL SHOULD NOT BE STORED IN BUFFER SPACE.

✳ INDICATE THE ADVISORY SPEED PLATE LEGEND IN THE MISCELLANEOUS QUANTITIES. IF ADVISORY SPEED IS GREATER THAN 30 MPH, USE THE W01-4 SIGN. IF ADVISORY SPEED IS 30 MPH OR LESS, USE THE W01-3 SIGN.

✳✳ WHEN THE DISTANCE TO/FROM THE NEXT CLOSEST NO-PASSING ZONE IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES AS INDICATED IN THE SPECIFICATIONS, THE TWO ZONES SHALL BE CONNECTED.

✳✳✳ OMIT THESE W01-6 SIGNS IF THE ADVISORY SPEED OF THE CURVE IS GREATER THAN 30 MPH.

LEGEND

- POST MOUNTED SIGN
- DRUM WITH WARNING LIGHT, TYPE C (STEADY-BURN)
- DRUM
- TYPE III BARRICADE (8' EQUIVALENT) WITHOUT / WITH SIGN
- (A) WARNING LIGHT, TYPE A (LOW-INTENSITY FLASHING)
- TEMPORARY DELINEATOR, CRYSTAL (WHITE) (SINGLE DELINEATOR)
- TEMPORARY RAISED PAVEMENT MARKERS (TWO-WAY YELLOW)
- XXX REMOVE PAVEMENT MARKING
- DIRECTION OF TRAFFIC FLOW
- TEMPORARY STEEL PLATE BEAM GUARD AND END TREATMENT

TRAFFIC CONTROL, TEMPORARY BYPASS ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

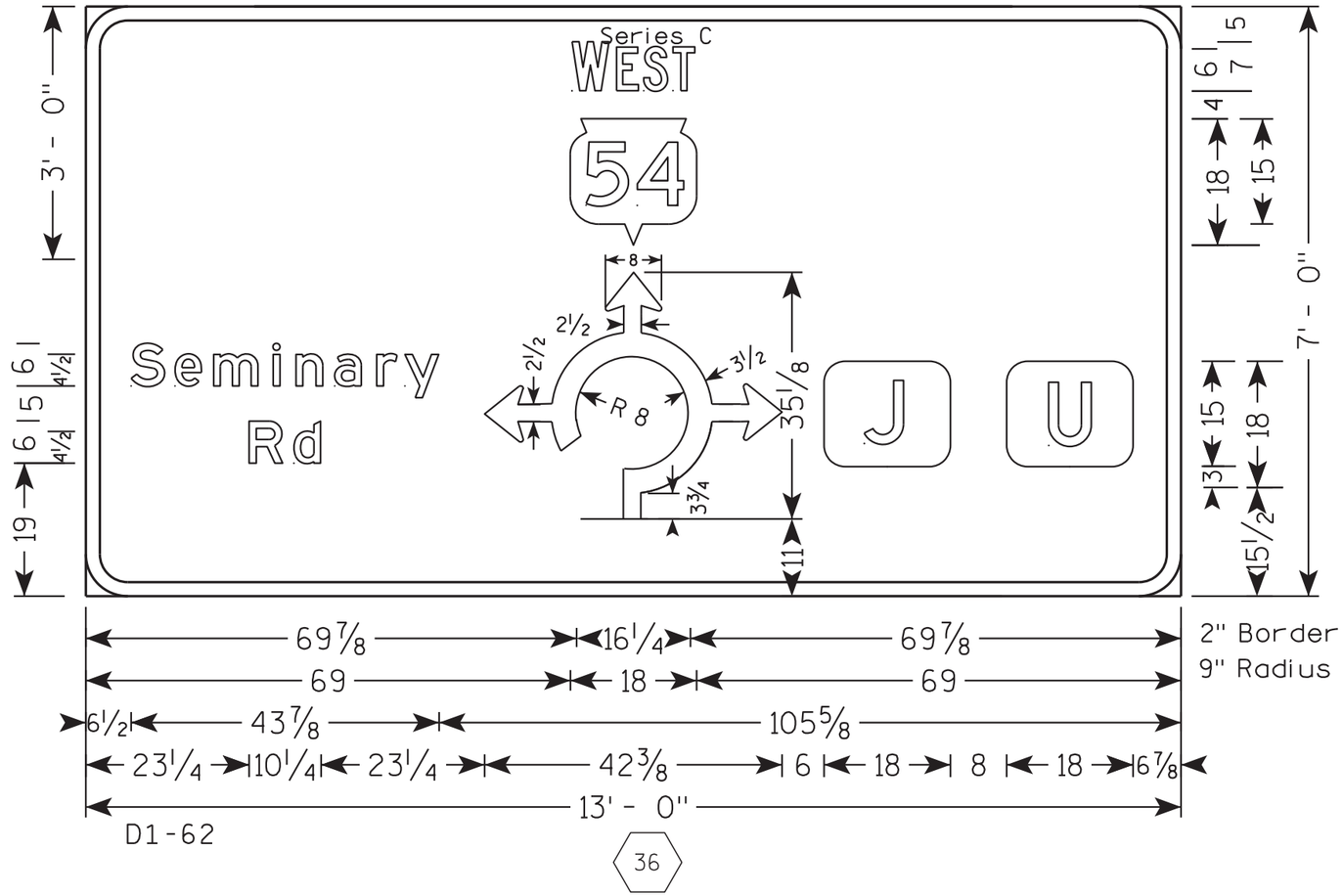
APPROVED
5/23/00 DATE
Chester J. Seyer
CHIEF SIGNS AND MARKING ENGINEER
FHWA

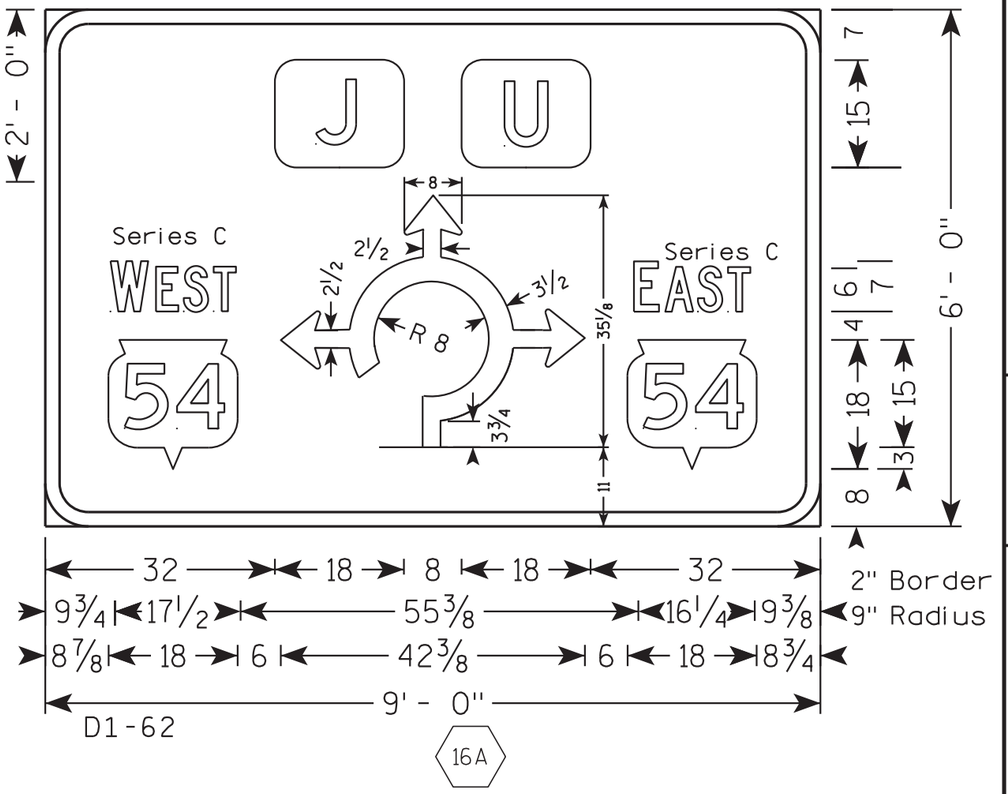
6

S.D.D. 15 D 31-1

6

S.D.D. 15 D 31-1





NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted
4. Colors for shields and cardinals shall be according to the applicable route marker specifications.

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

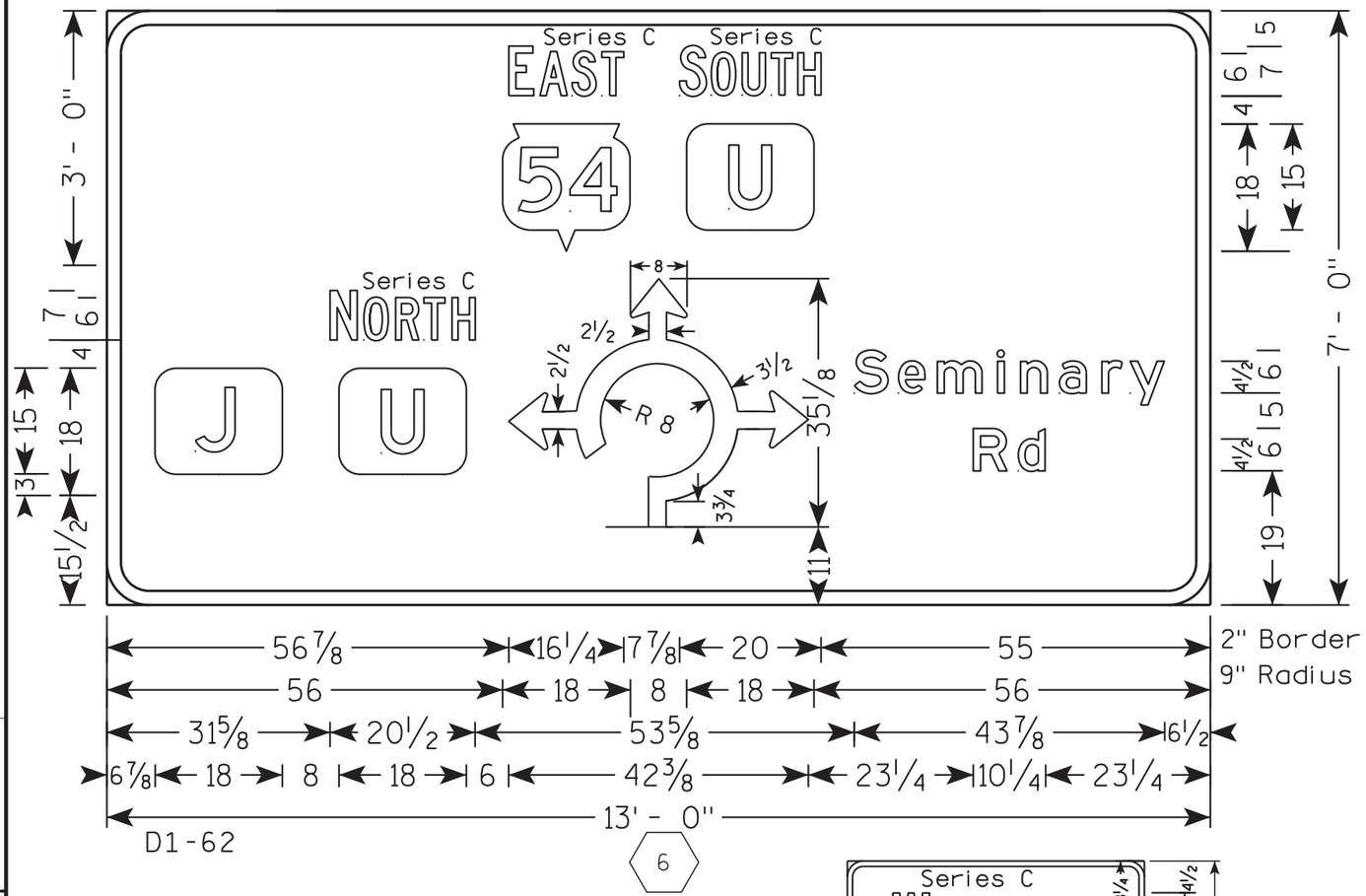
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	SPECIAL SIGN DETAILS	SHEET NO: 295	E

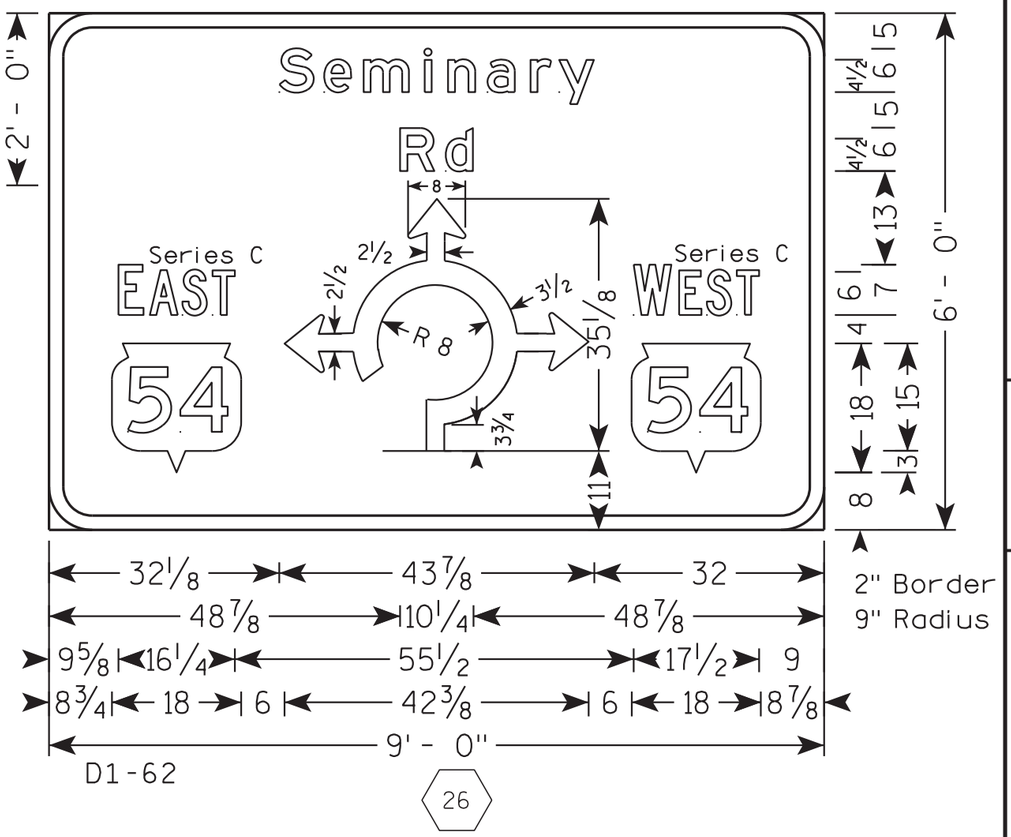
FILE NAME : 027203_ad.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT SCALE : N/A

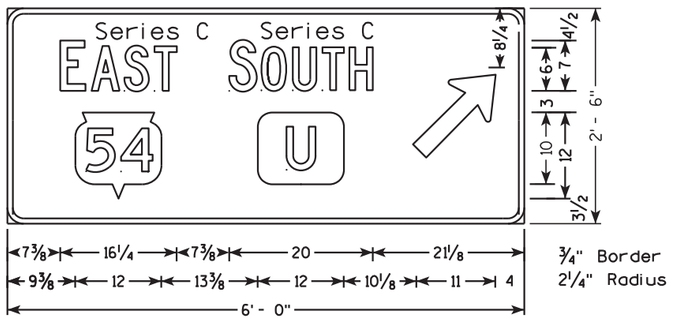
WISDOT/CADDS SHEET 42

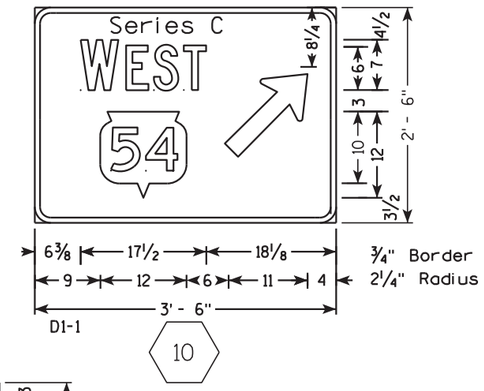
NOTES

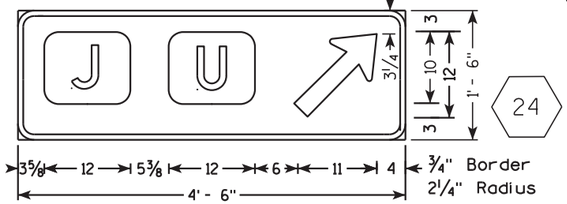
1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted
4. Colors for shields and cardinals shall be according to the applicable route marker specifications.





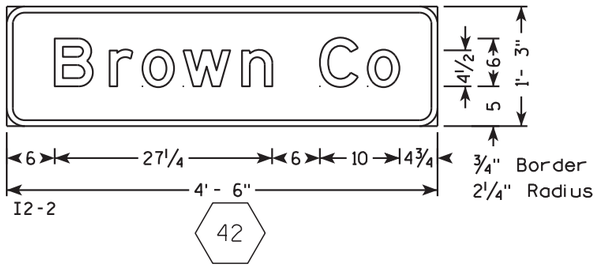


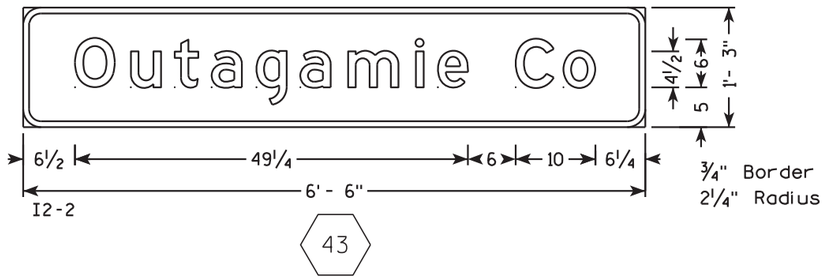


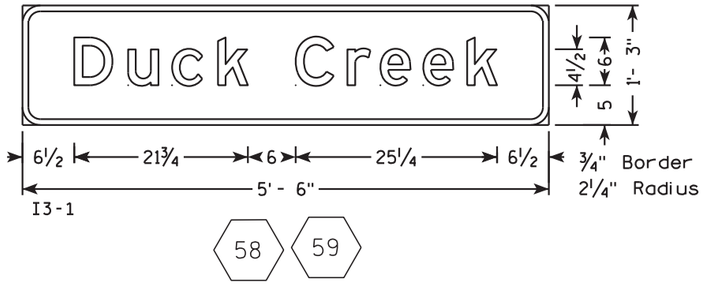


PLAN SHEET PRODUCED
BY WisDOT-NE REGION

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	SPECIAL SIGN DETAILS	SHEET NO: 296	E

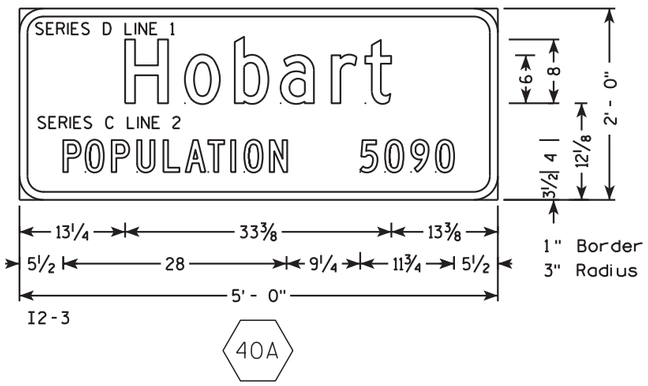


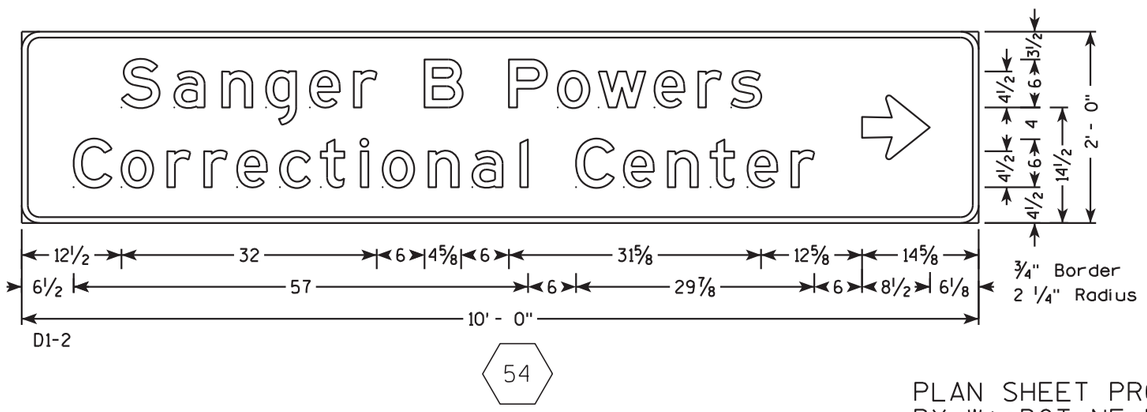




NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted





PLAN SHEET PRODUCED BY WisDOT-NE REGION

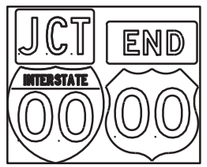
7

7

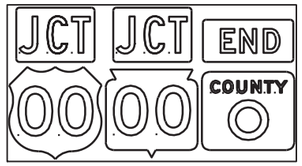
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE	SPECIAL SIGN DETAILS	SHEET NO: 297	E

TYPICAL ASSEMBLIES

J1-1

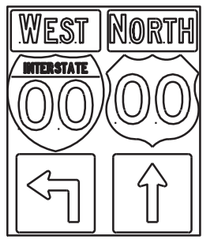


J1-2

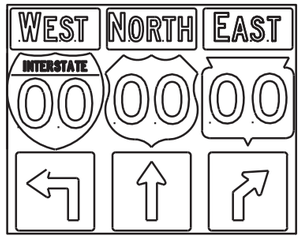


J1-3

J2-1



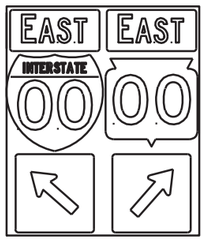
J2-2



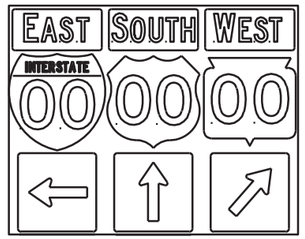
J2-3

JV

J3-1

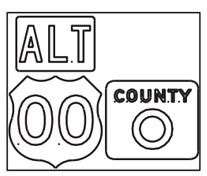


J3-2

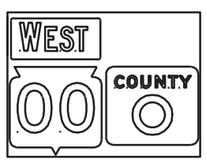


J3-3

J4-1



J4-2



J4-2

J13-1

J12-1

J32-1

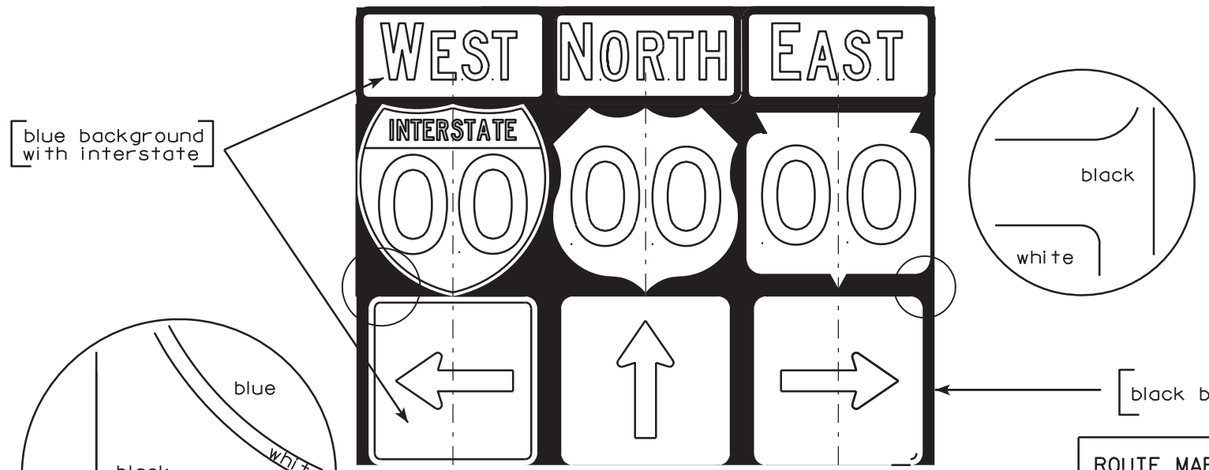
J33-1

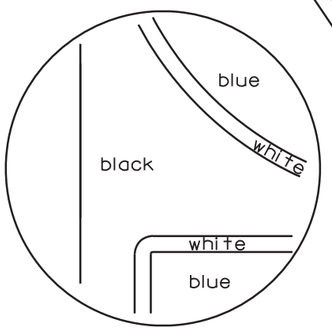
J23-1

J22-1

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square since base material is plywood.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.





ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/21/09 PLATE NO. A2-1S.6

PROJECT NO:

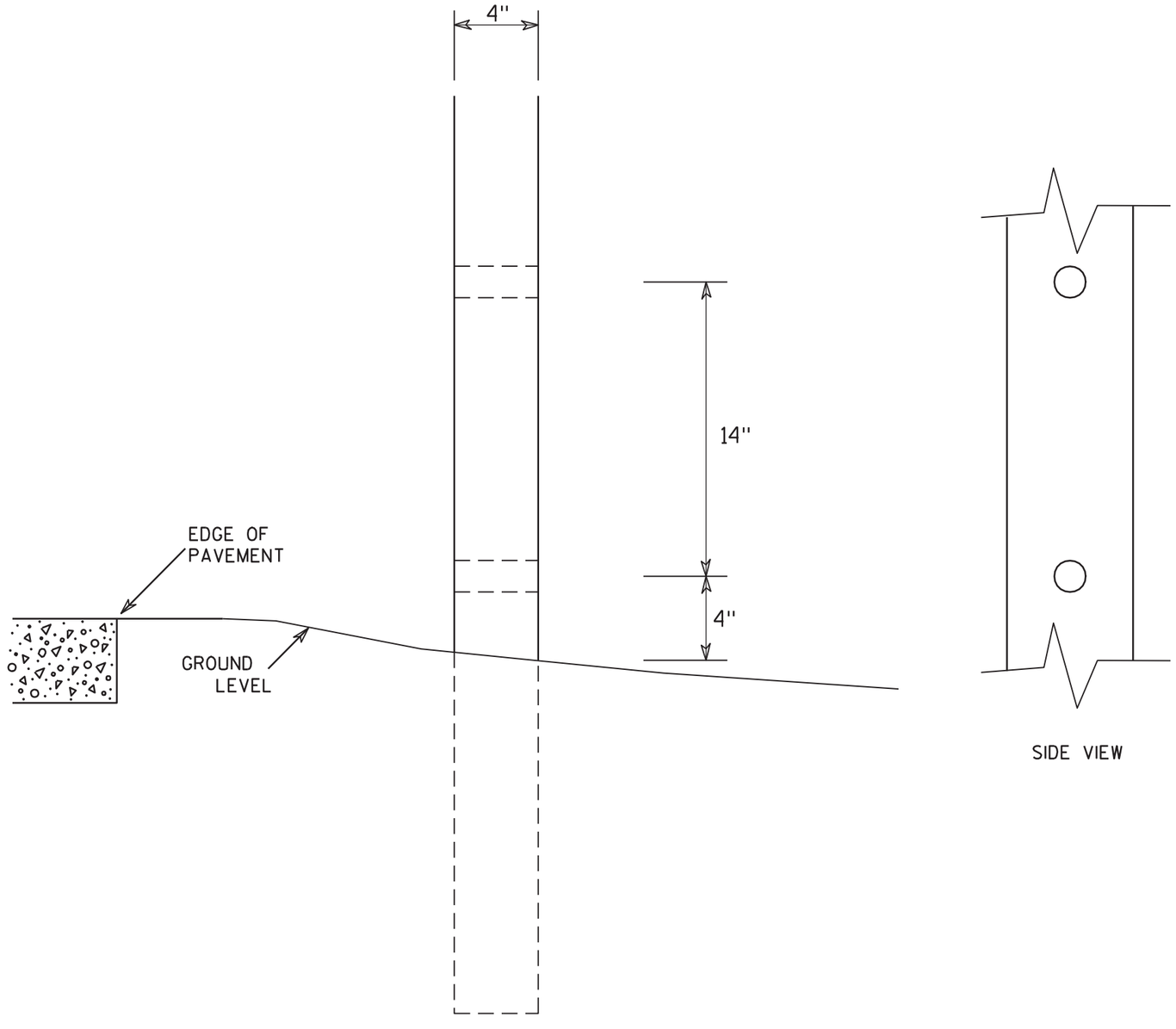
SHEET NO: 298 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\A21S.DGN PLOT DATE : 21-OCT-2009 09:27 PLOT BY : ditjph PLOT NAME :

WISDOT/CADDS SHEET 42

7

7



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

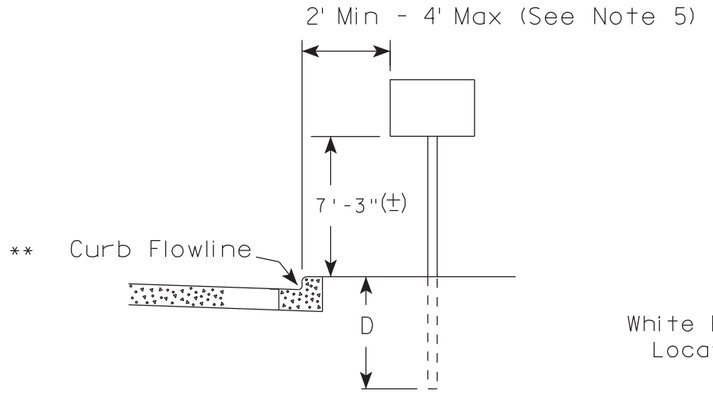
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

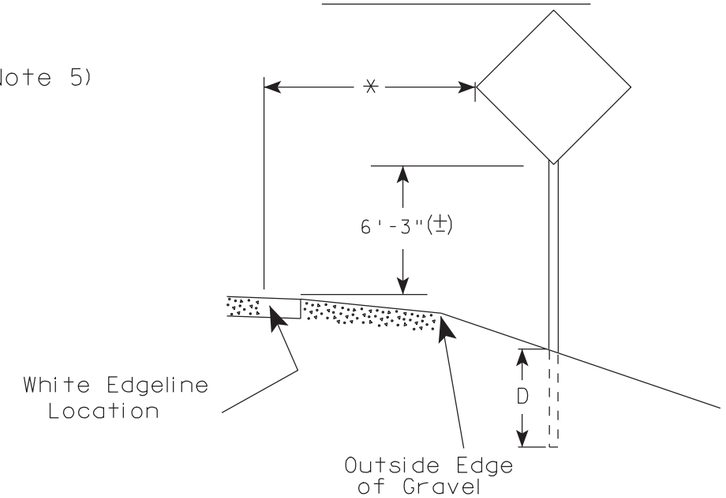
DATE 3/27/97 PLATE NO. A4-11.2

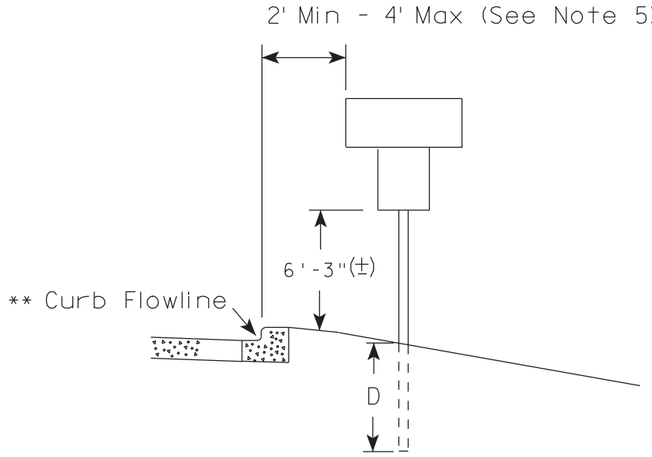
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 299	E

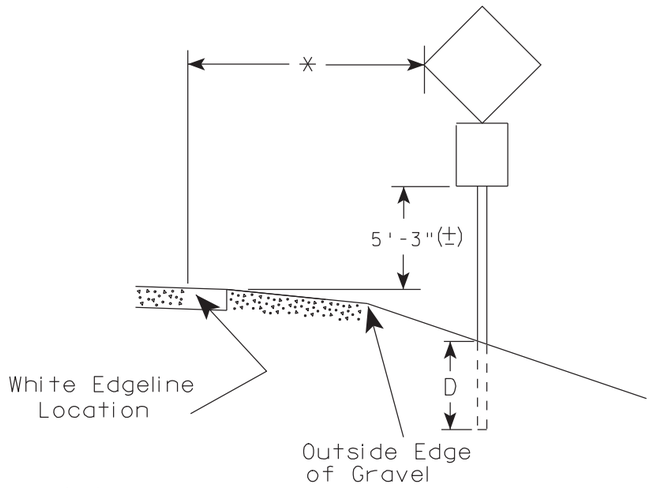
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

GENERAL NOTES

1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

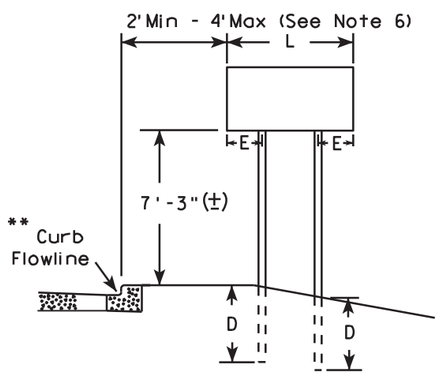
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

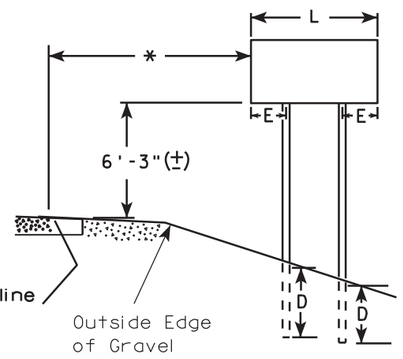
DATE 9/21/2011 PLATE NO. A4-3.16

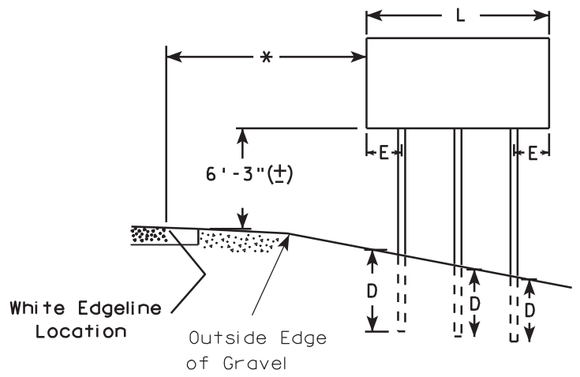
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 300	E

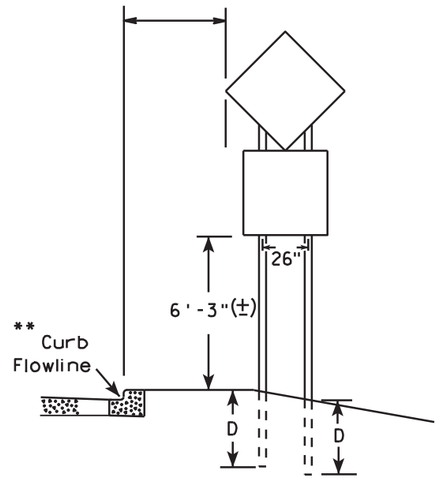
URBAN AREA



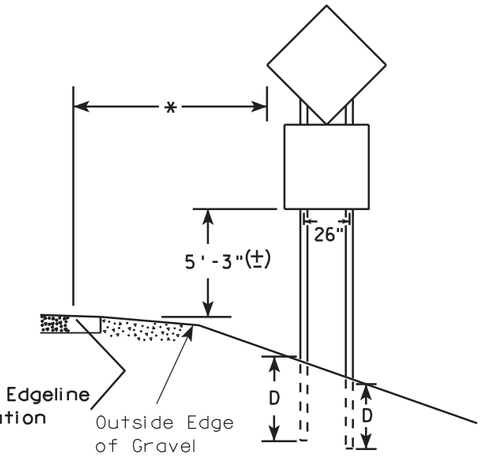
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 120"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. For multiple post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width or 20 S.F. or less in area.

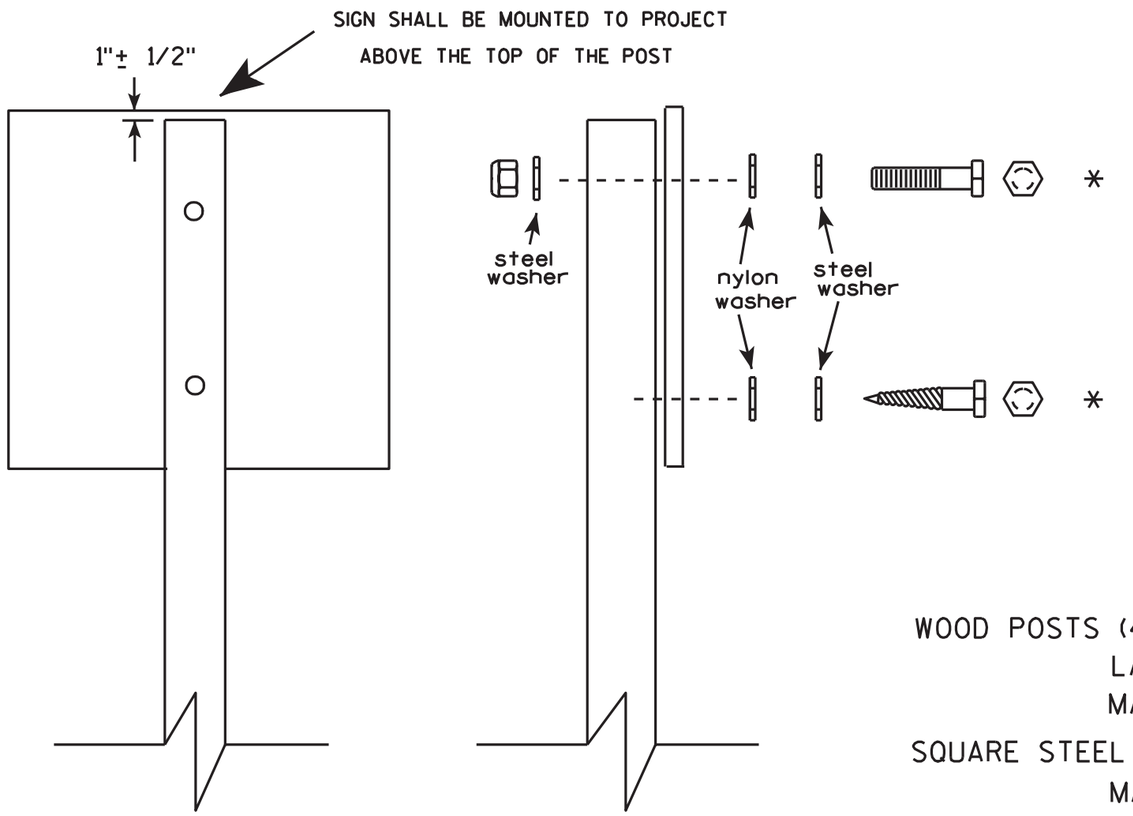
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/21/2011 PLATE NO. A4-4.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 301	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

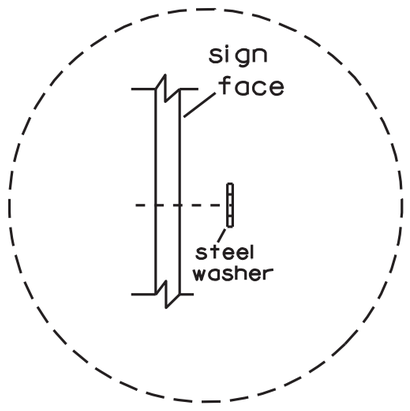
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts

SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/23/10 PLATE NO. A4-8.7

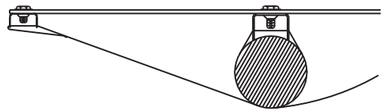
7

7

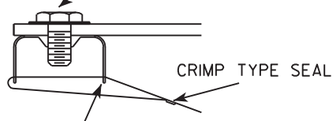
PROJECT NO:

SHEET NO: 302 E

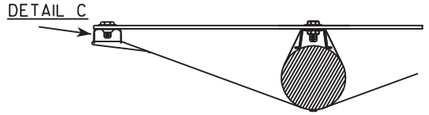
BRACE BANDING

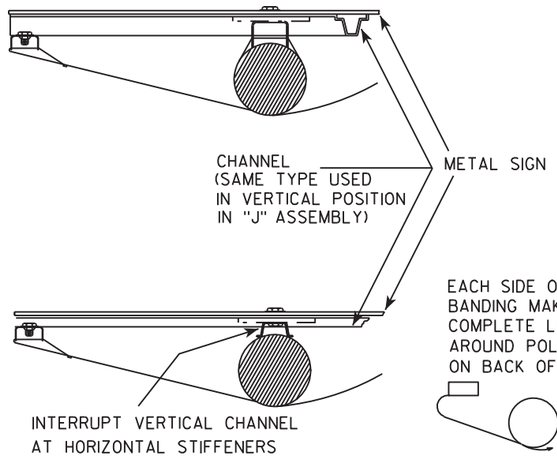


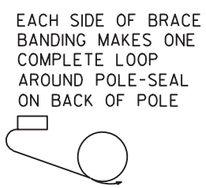
DETAIL C
CADMIUM PLATED STEEL BOLT
THROUGH BLACK BORDER



DETAIL C



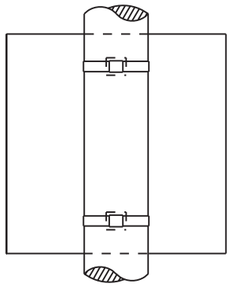


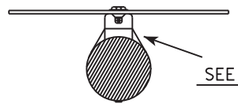


EACH SIDE OF BRACE
BANDING MAKES ONE
COMPLETE LOOP
AROUND POLE-SEAL
ON BACK OF POLE

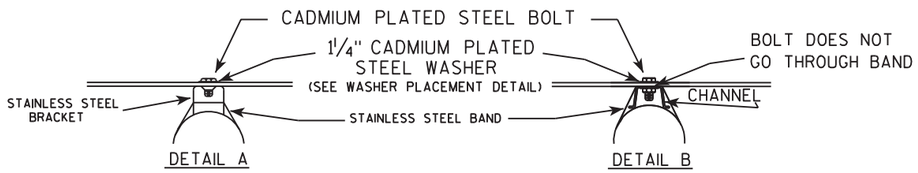
BRACKET BANDING

SINGLE SIGN





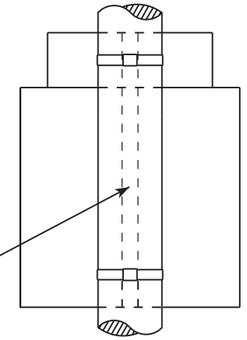
SEE DETAIL A



DETAIL A

DETAIL B

"J" ASSEMBLY

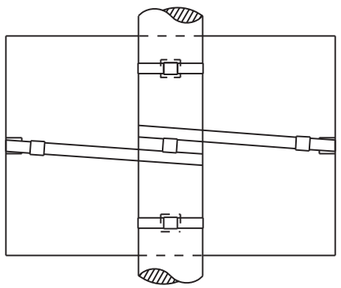


CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET

SEE DETAIL B

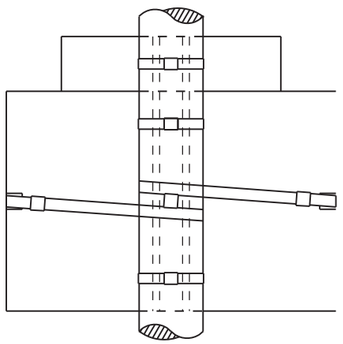
GENERAL NOTES

1. Signs 4' or greater in width shall have one brace band installed at the center of the sign.
2. Signs 3' or greater in height shall have three bracket bands installed. Signs less than 3' in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.

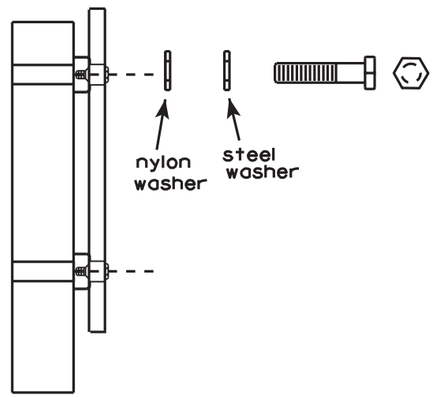


BRACE BANDING

BRACE BANDING SHALL BE TIGHTENED FIRMLY BUT NOT SO TIGHT AS TO APPRECIABLY CURVE FACE OF SIGN.



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

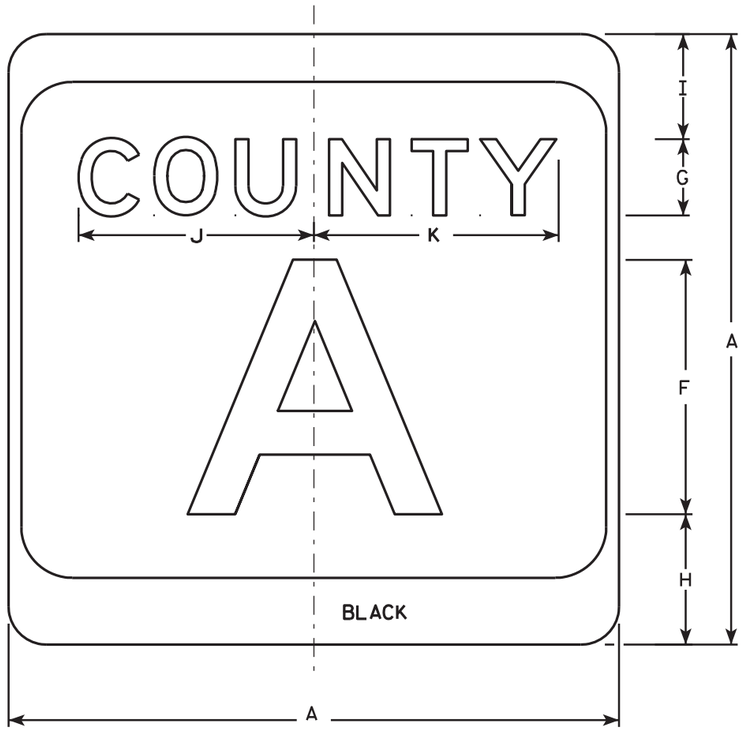
STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

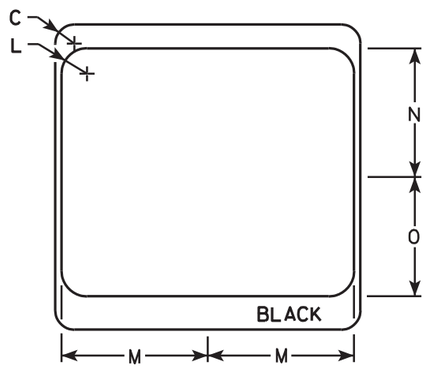
APPROVED Matthew R Rauch
for State Traffic Engineer

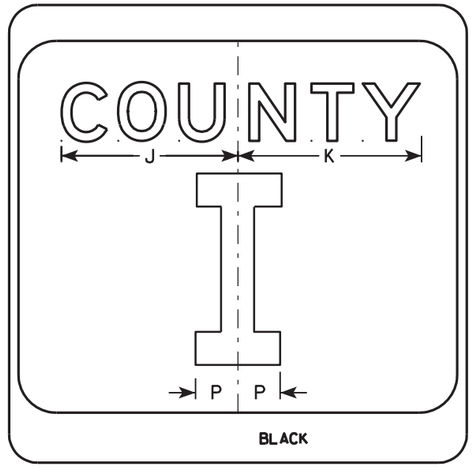
DATE 11/08/05 PLATE NO. A5-9.2

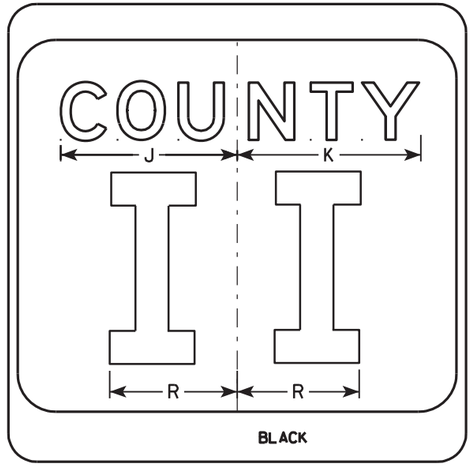
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 303	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

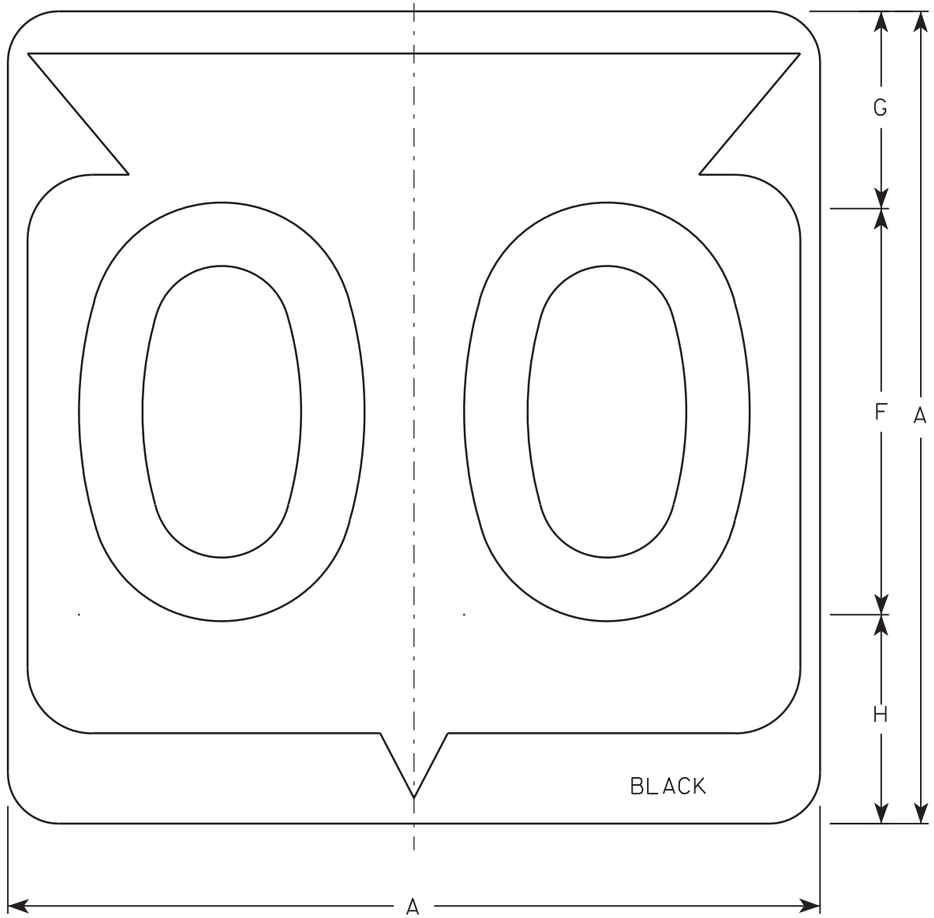
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

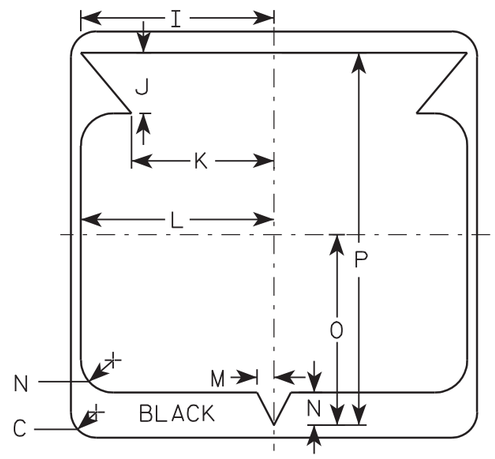
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 304 | E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

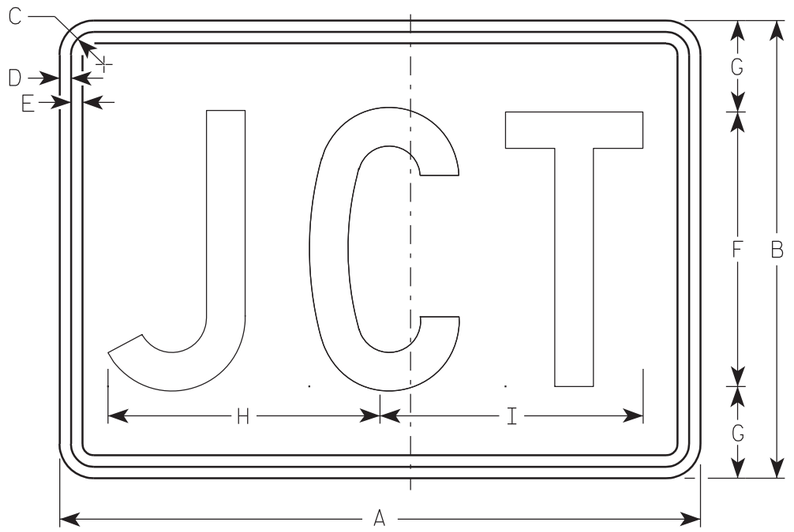
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

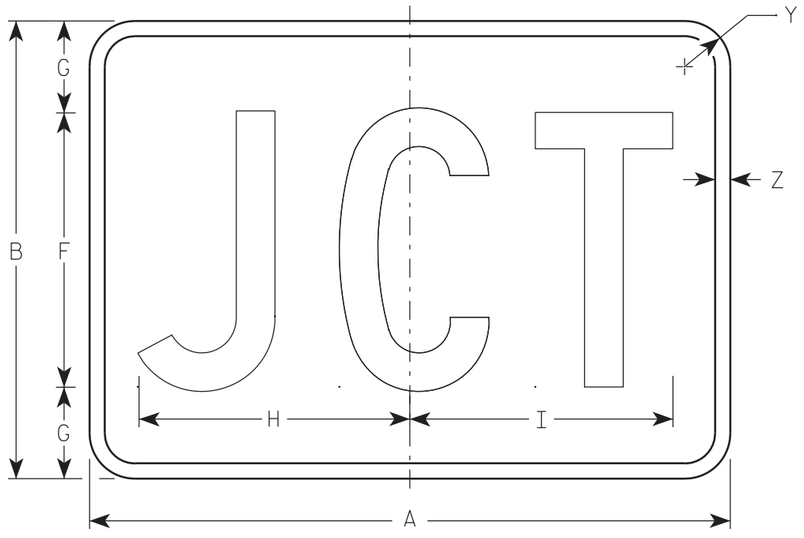
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 305	E



M2-1
MK2-1
MM2-1
MR2-1



MB2-1
MG2-1
MN2-1

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   Message - Black
   MB2-1 Background - Blue
   Message - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   MG2-1 Background - Green
   Message - White - Type H Reflective
   MK2-1 Background - Green
   Message - White - Type H Reflective
   MM2-1 Background - White - Type H Reflective
   Message - Green
   MN2-1 Background - Brown
   Message - White - Type H Reflective
   MR2-1 Background - Brown
   Message - Yellow - Type H Reflective

Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 375 mm
3	750 mm X 525 mm
4	750 mm X 525 mm
5	750 mm X 525 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20	0.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.20
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.20
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.20

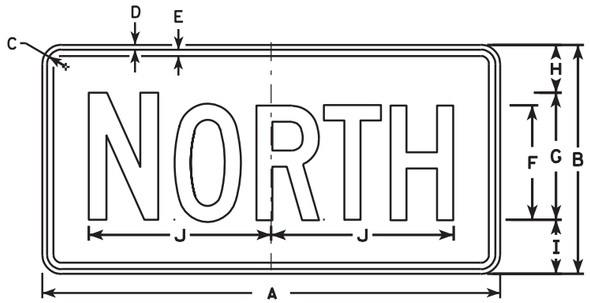
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

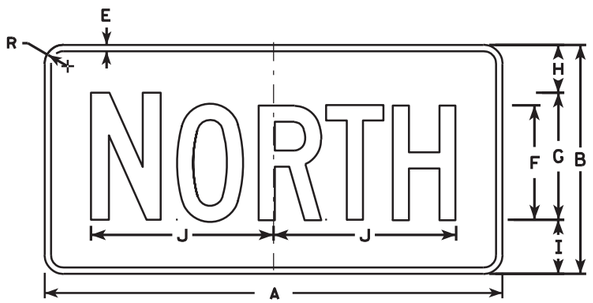
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M2-1.10

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 306	E



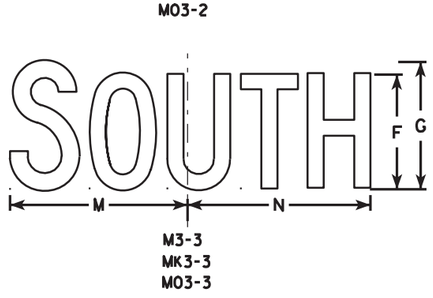
M3-1
MK3-1
MO3-1



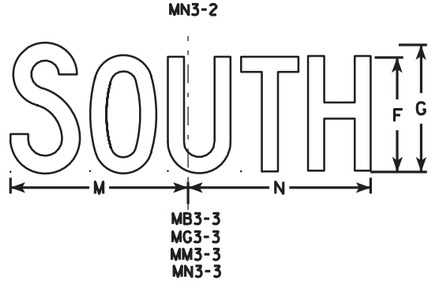
MB3-1
MG3-1
MM3-1
MN3-1

M3-2
MK3-2
MO3-2

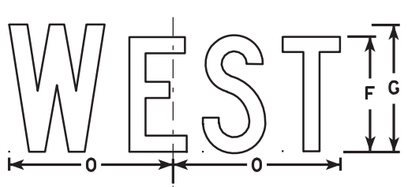
MB3-2
MG3-2
MM3-2
MN3-2



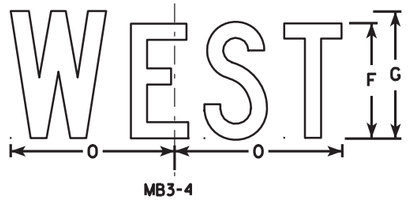
M3-3
MK3-3
MO3-3



MB3-3
MG3-3
MM3-3
MN3-3



M3-4
MK3-4
MO3-4



MB3-4
MG3-4
MM3-4
MN3-4

NOTES

1. All Signs Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White - Type H Reflective (Detour or temporary signs - Reflective) Message - Black
   MB3-1 thru MB3-4 Background - Blue Message - White - Type H Reflective (Detour or temporary signs - Reflective)
   MG3-1 thru MG3-4 Background - Green Message - White - Type H Reflective
   MK3-1 thru MK3-4 Background - Green Message - White - Type H Reflective
   MM3-1 thru MM3-4 Background - White - Type H Reflective Message - Green
   MN3-1 thru MN3-4 Background - Brown Message - White - Type H Reflective
   M03-1 thru M03-4 Background - Orange - Reflective Message - Black
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

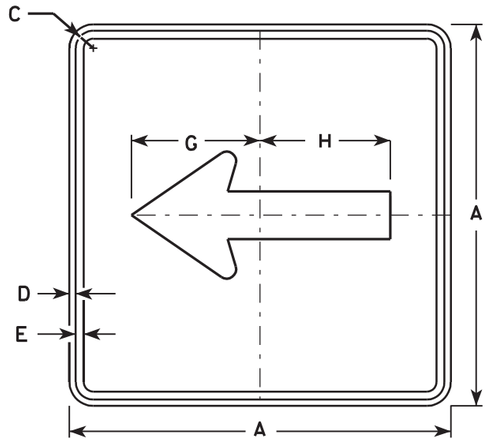
STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

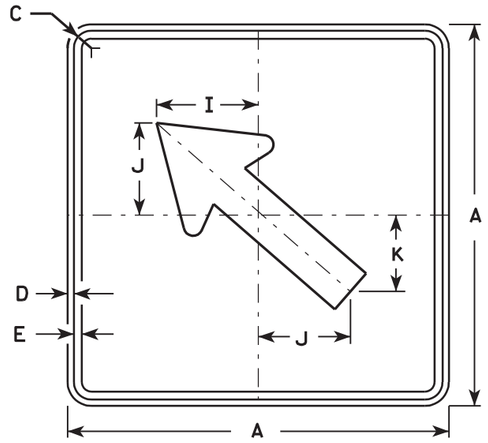
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 11/10/10 PLATE NO. M3-1.12

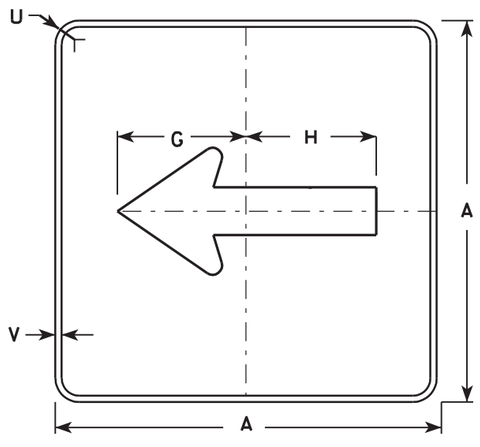
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 307	E



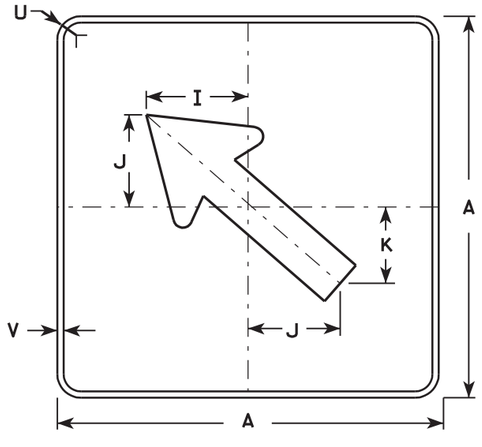
M6-1
MK6-1
MM6-1
MO6-1
MR6-1



M6-2
MK6-2
MM6-2
MO6-2
MR6-2



MB6-1
MG6-1
MN6-1



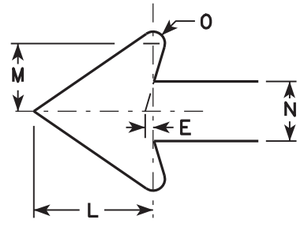
MB6-2
MG6-2
MN6-2

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   MG6-1 and MG6-2 Background - Green
   Message - White - Type H Reflective
   MK6-1 and MK6-2 Background - Green
   Message - White - Type H Reflective
   MM6-1 and MM6-2 Background - White - Type H Reflective
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White - Type H Reflective
   MO6-1 and MO6-2 Background - Orange - Reflective
   Message - Black
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow - Type H Reflective

Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56

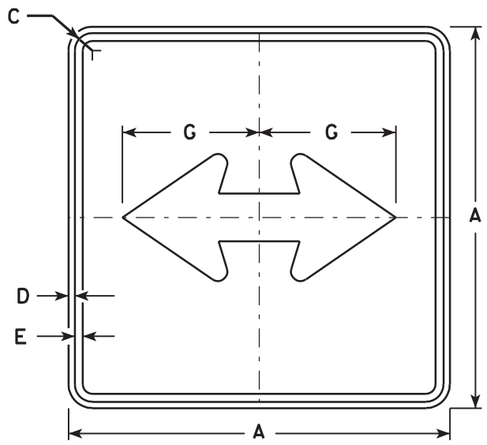
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

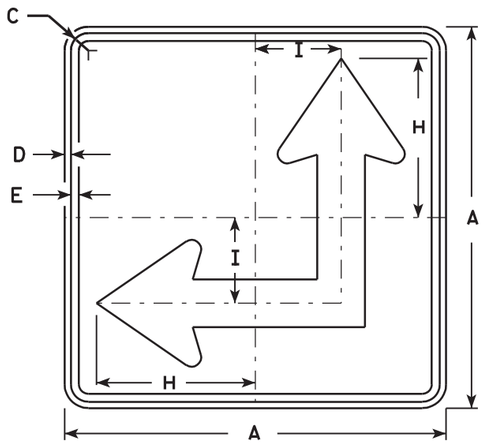
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M6-1.12

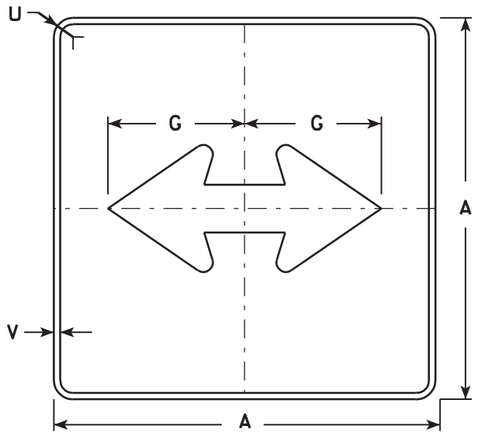
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 308 | E



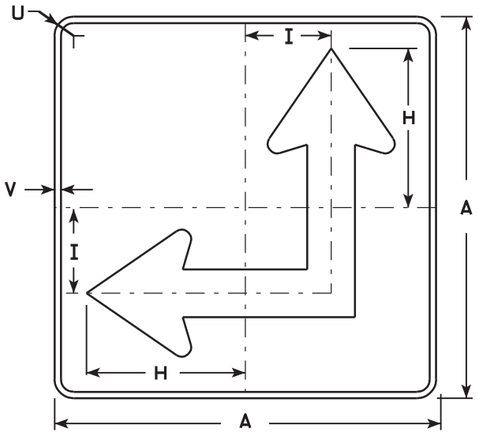
M6-4
MK6-4
MM6-4
MO6-4
MR6-4



M6-6
MK6-6
MM6-6
MO6-6
MR6-6



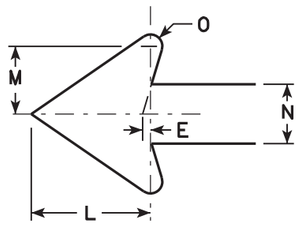
MB6-4
MG6-4
MN6-4



MB6-6
MG6-6
MN6-6

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   MG6-4 and MG6-6 Background - Green
   Message - White - Type H Reflective
   MK6-4 and MK6-6 Background - Green
   Message - White - Type H Reflective
   MM6-4 and MM6-6 Background - White - Type H Reflective
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White - Type H Reflective
   MO6-4 and MO6-6 Background - Orange - Reflective
   Message - Black
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow - Type H Reflective
5. M6-6R same as M6-6L except arrow points ahead and right.



Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56

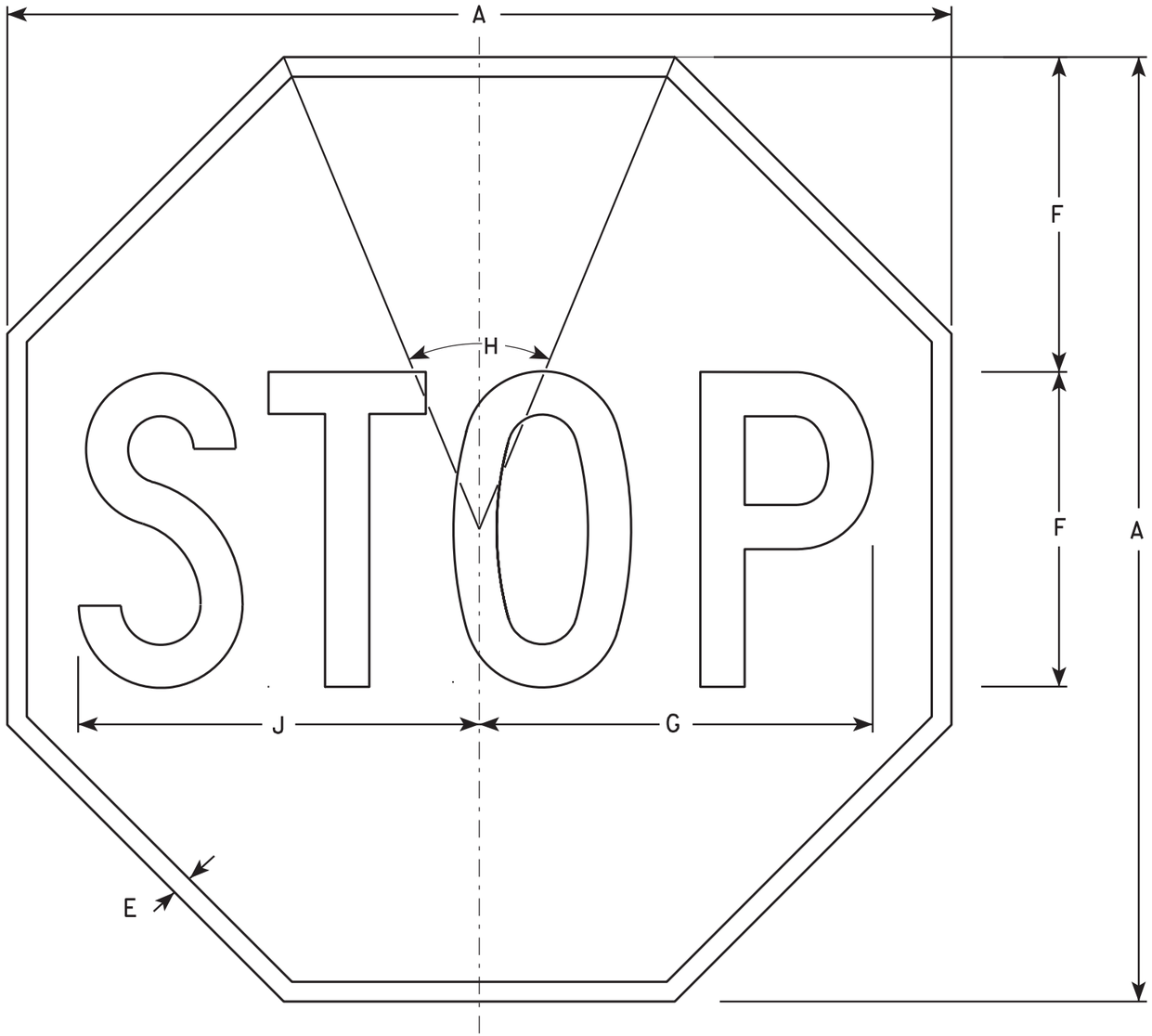
STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/10 PLATE NO. M6-4.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 309	E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				3/8	8	10	45°		10 1/4																	3.31
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

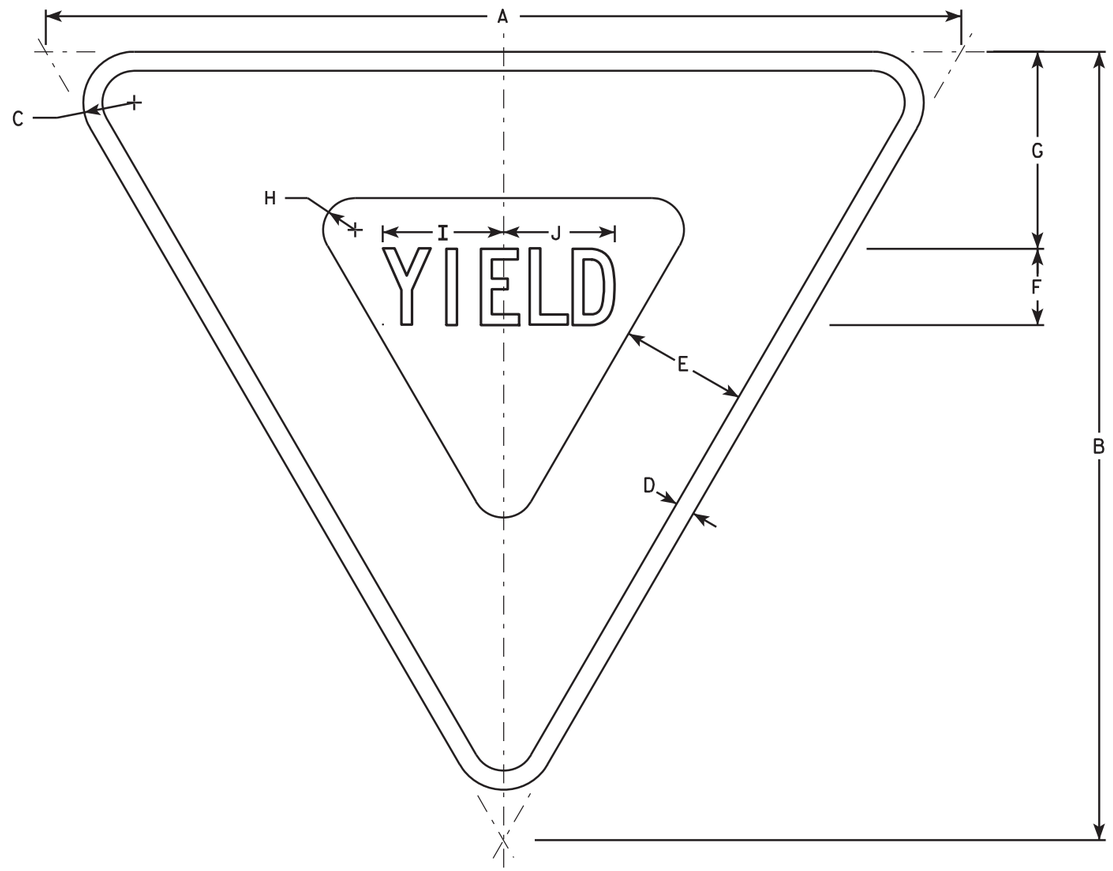
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 310	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 ½	⅝	4	2 ½	6 ⅜	⅞	4	3 ⅝																	2.71
2S	36	31	2	¾	5	3	7 ¾	1 ¼	4 ¾	4 ⅜																	3.88
2M	48	42	3	1	6	4	9 ¾	2	6 ¼	5 ⅞																	7.00
3	48	42	3	1	6	4	9 ¾	2	6 ¼	5 ⅞																	7.00
4	48	42	3	1	6	4	9 ¾	2	6 ¼	5 ⅞																	7.00
5	60	52	3	1 ½	8	5	13	2 ½	7 ⅞	7 ¼																	10.83
6	24	21	1 ½	⅜	3	2	4 ¾	⅞	3 ¼	3																	1.75
7	18	15 ½	1	⅜	2 ½	1 ½	3 ⅛	⅝	2 ⅜	2 ¼																	0.97

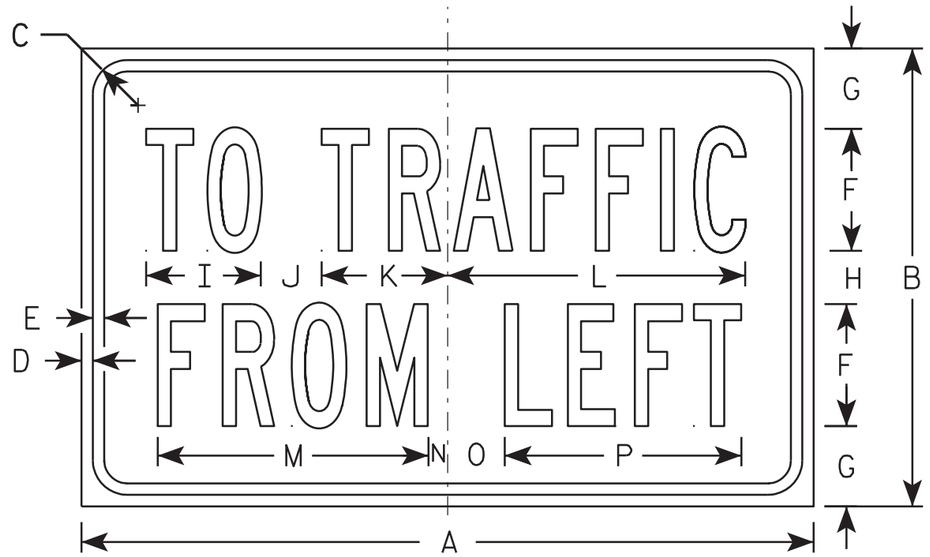
STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/10 PLATE NO. R1-2.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 311	E



R1-54

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - B

R1-54

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
2M	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
3																											
4																											
5																											

STANDARD SIGN
R1-54

WISCONSIN DEPT OF TRANSPORTATION

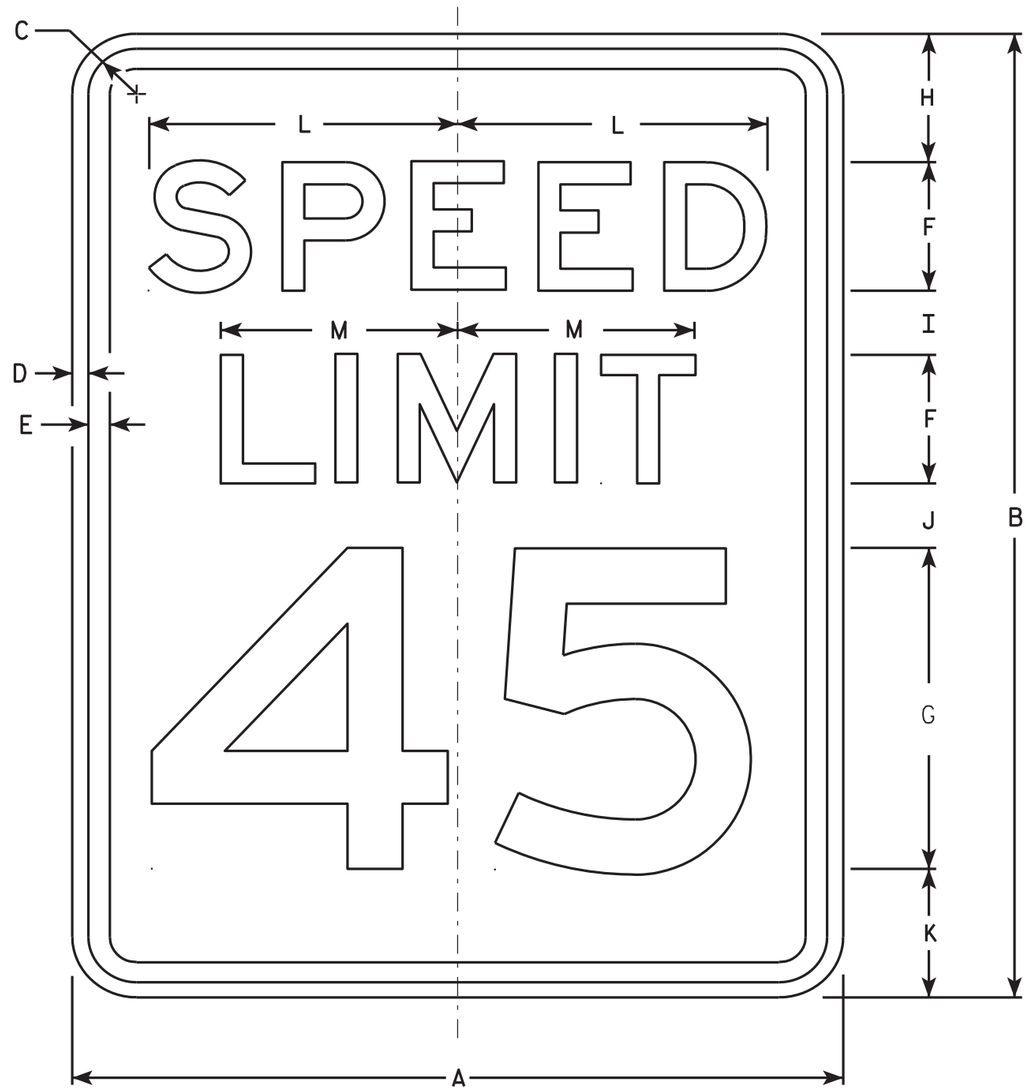
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-54.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 312	E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R154.DGN PLOT DATE : 03-DEC-2010 08:47 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 4.965868:1.000000
WISDOT/CADDS SHEET 42



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

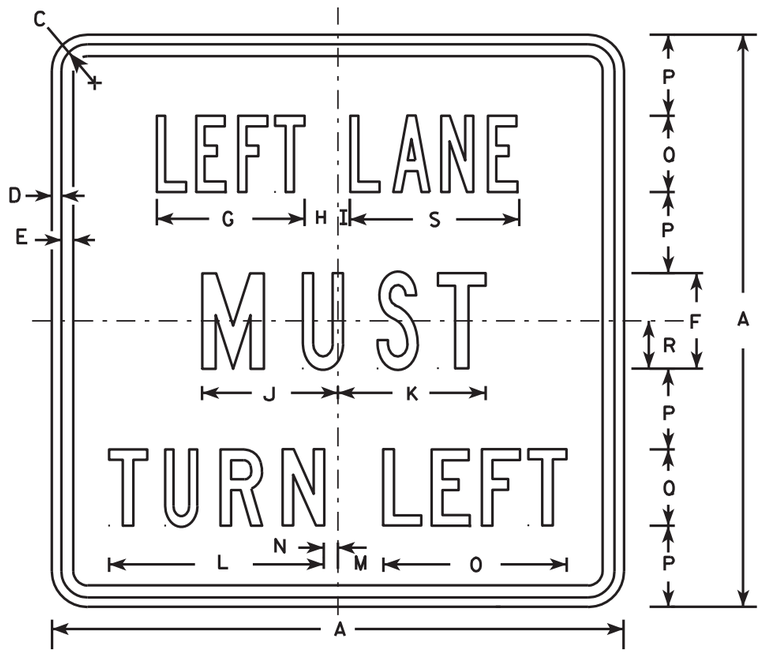
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

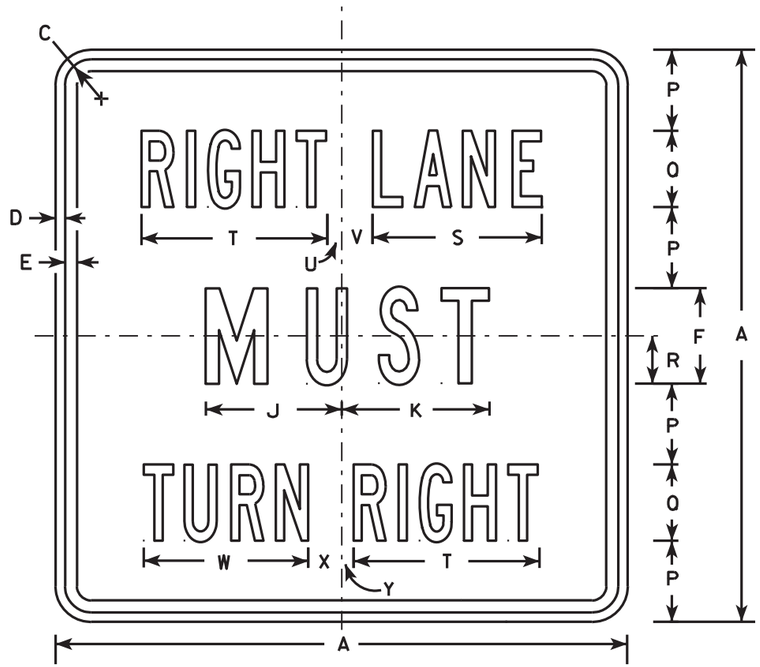
DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 313 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000
WISDOT/CADDS SHEET 42



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2S	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
2M	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00
5																											

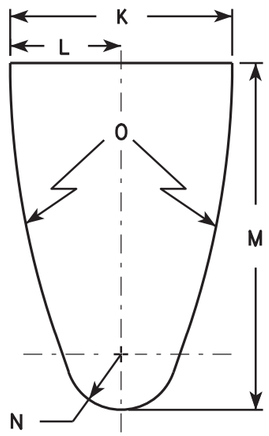
STANDARD SIGN
R3-7L & R3-7R

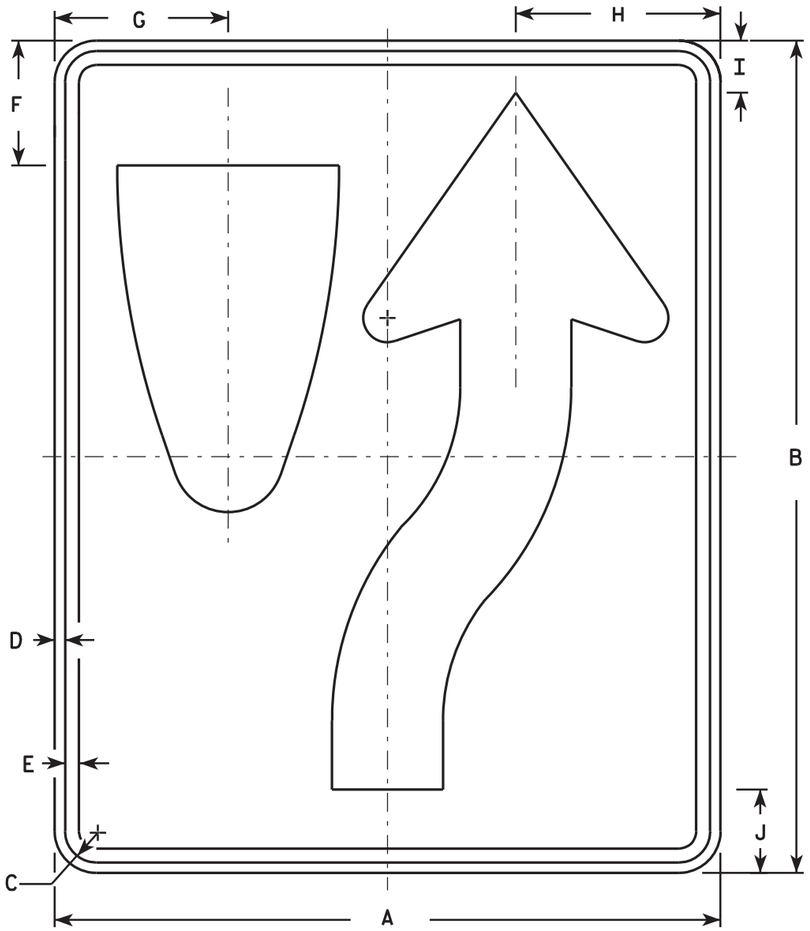
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 314	E

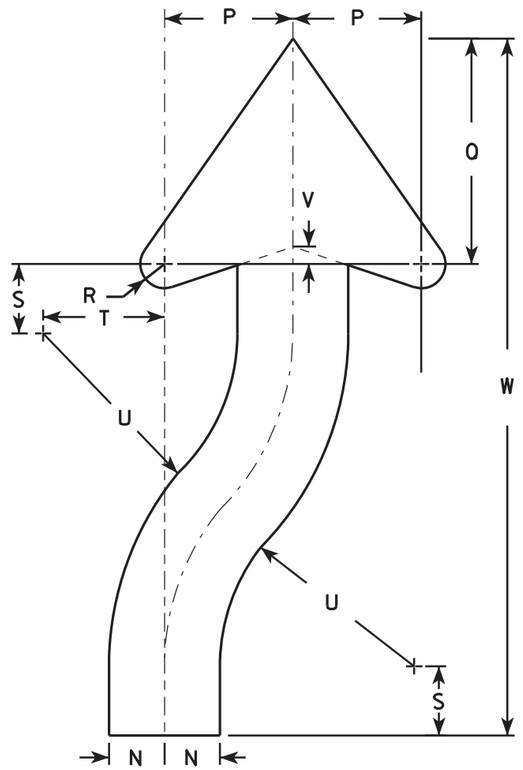




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

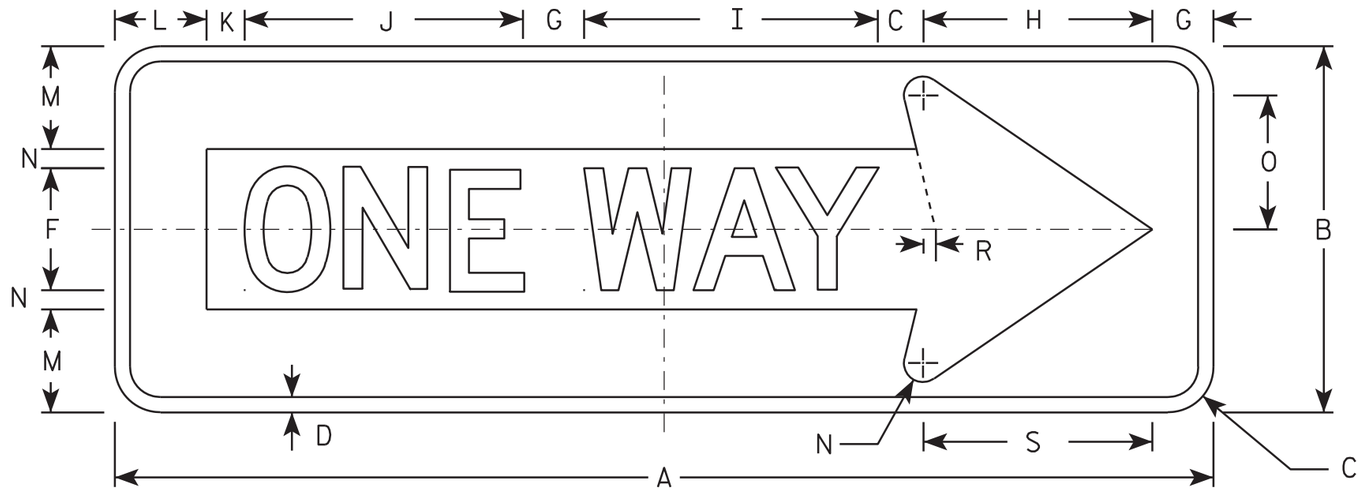
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

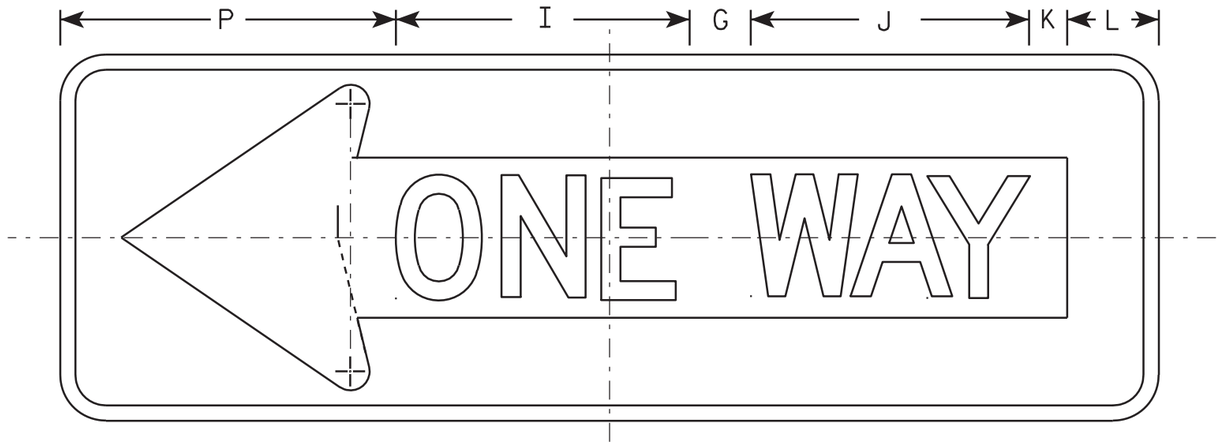
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 315	E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-1L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	12	1 ½	½		4	2	7 ½	9 ⅝	9 ⅛	1 ¼	3	3 ⅜	⅝	4 ⅜	11		⅜	7 ½								3.0
2M	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
3	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
4	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
5																											

STANDARD SIGN
R6-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

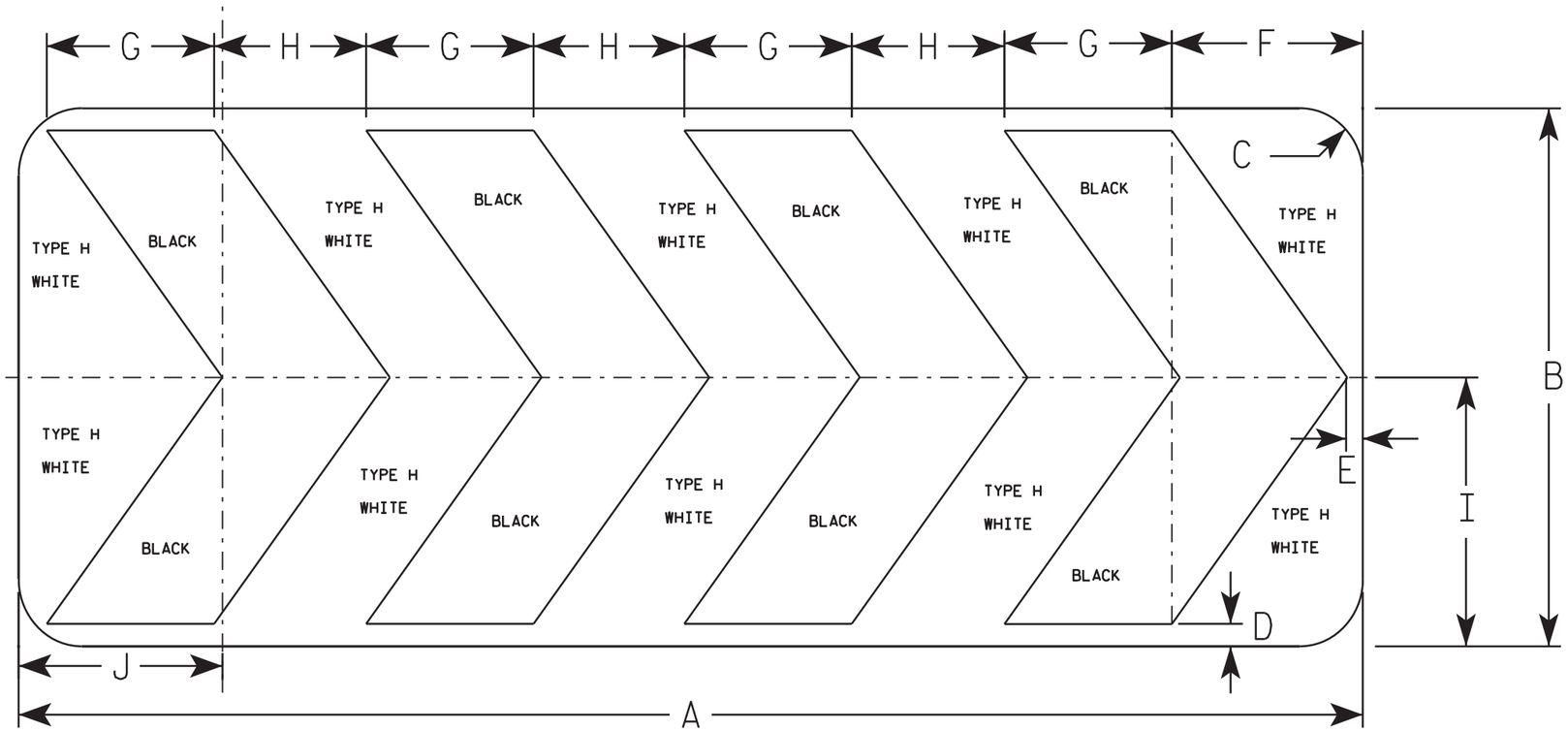
DATE 12/17/10 PLATE NO. R6-1.2

PROJECT NO:

SHEET NO: 316 E

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R6-4B

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	60	24	2 1/4	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	2 1/4	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

STANDARD SIGN
R6-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/03/11 PLATE NO. R6-4B.2

PROJECT NO:

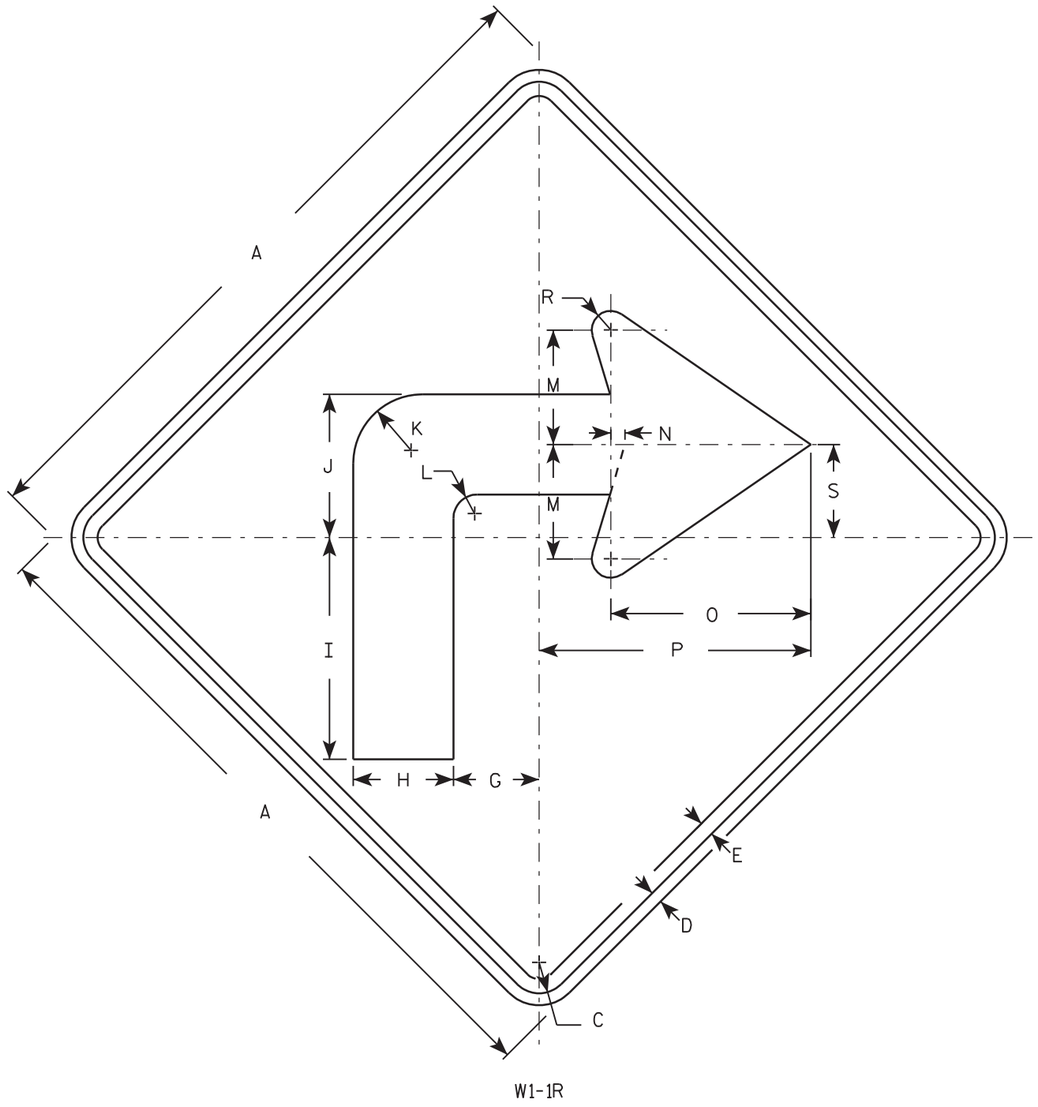
SHEET NO: 317 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R64B.DGN PLOT DATE : 03-JAN-2011 14:30 PLOT BY : dotsja

WISDOT/CADDS SHEET 42

7

7



W1-1R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-1L is the same as W1-1R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		3	3 1/2	7 3/4	5	2 1/2	7/8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
2S	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
2M	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
3	36		1 5/8	5/8	3/4		4 1/2	5 1/4	11 5/8	7 1/2	3 5/8	1 1/4	6	3/4	10 1/2	14 1/4		1	4 7/8								9.0
4	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0
5	48		2 1/4	3/4	1		6	7	15 1/2	10	4 7/8	1 5/8	8	1	14	19		1 1/4	6 1/2								16.0

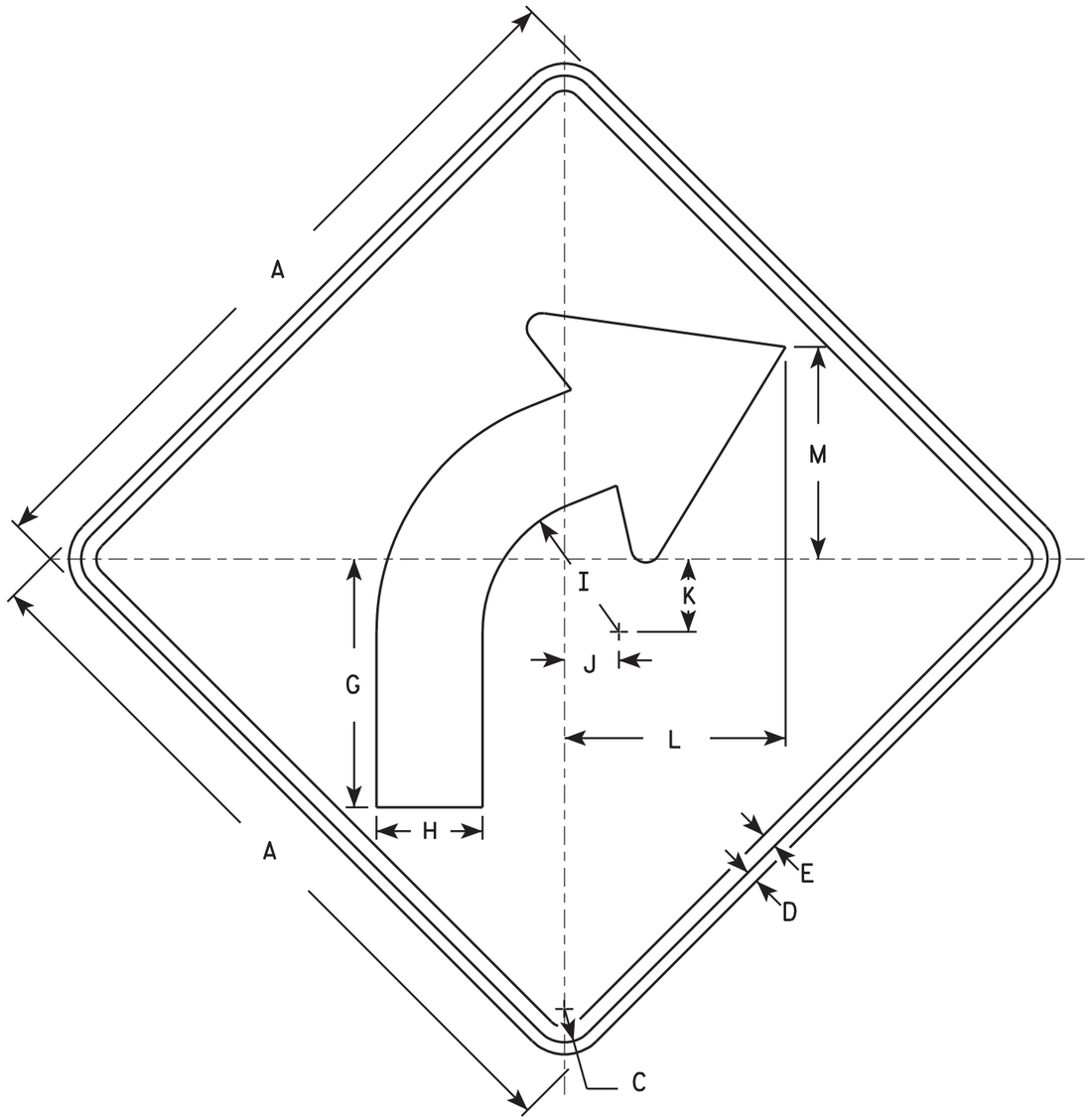
STANDARD SIGN
W1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W1-1.10

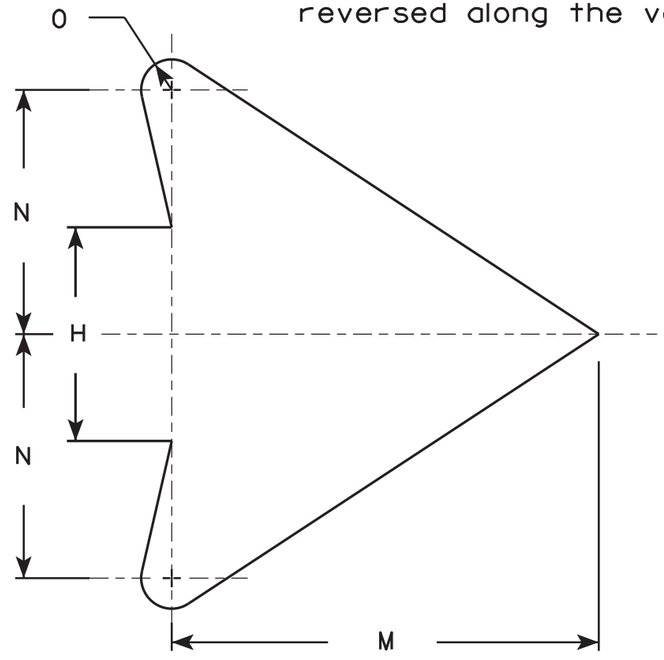
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 318 | E



W1-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

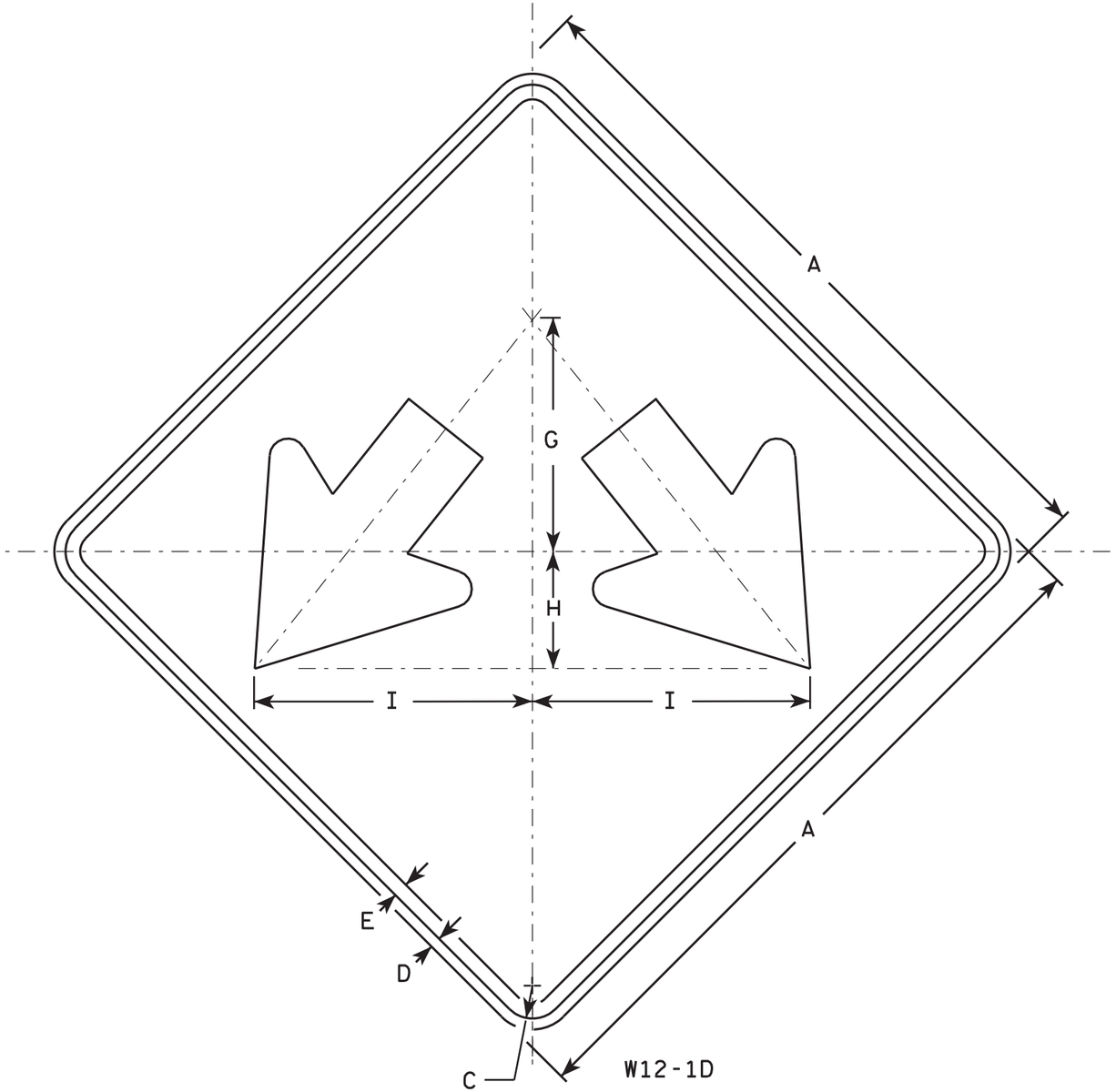
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

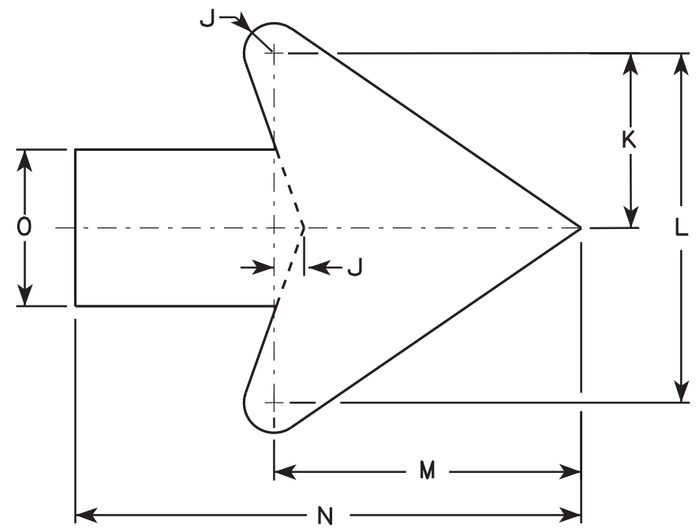
DATE 4/18/11 PLATE NO. W1-2.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 319 | E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/11 PLATE NO. W12-1D.14

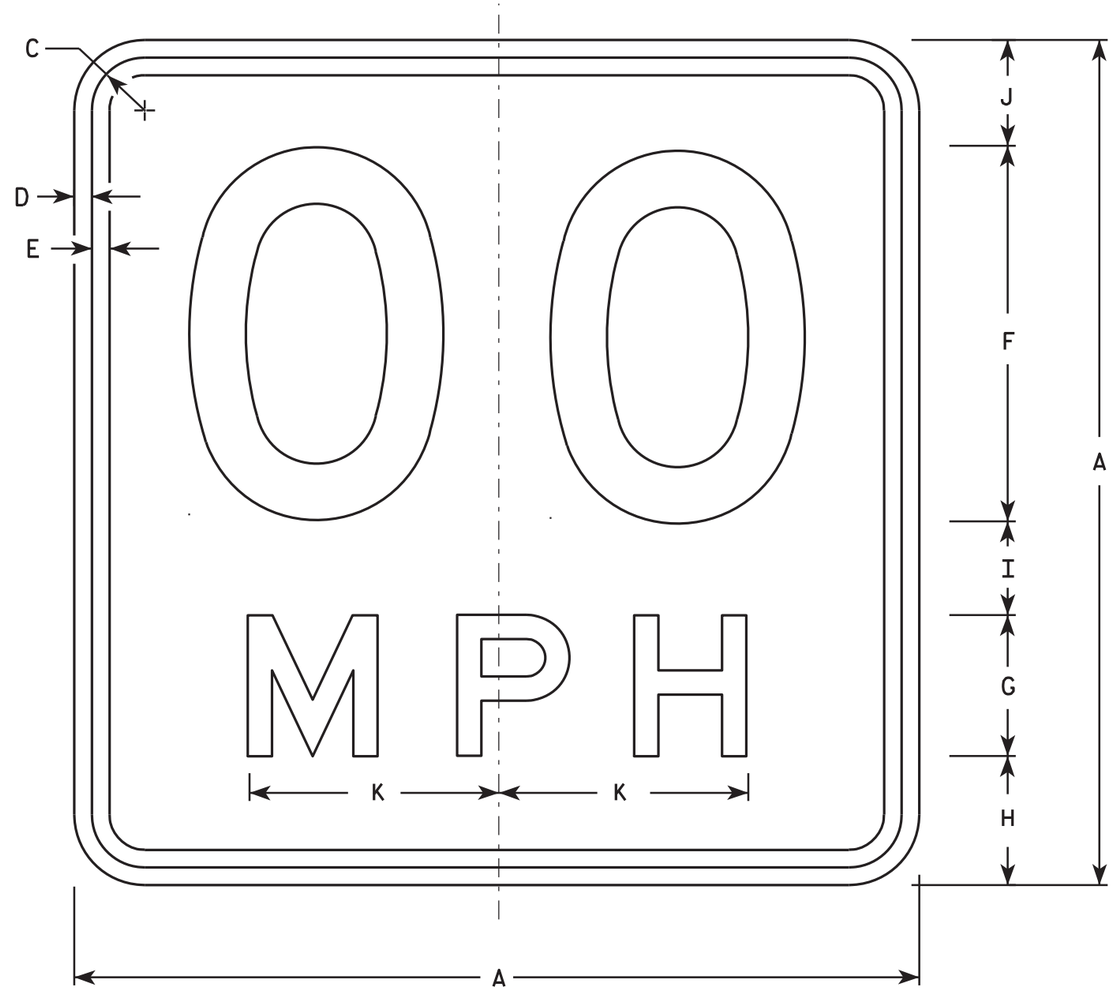
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 320	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W121D.DGN PLOT DATE : 16-MAR-2011 14:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 4.717577:1.000000

WISDOT/CADDS SHEET 42

7

7



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

	SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
	5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

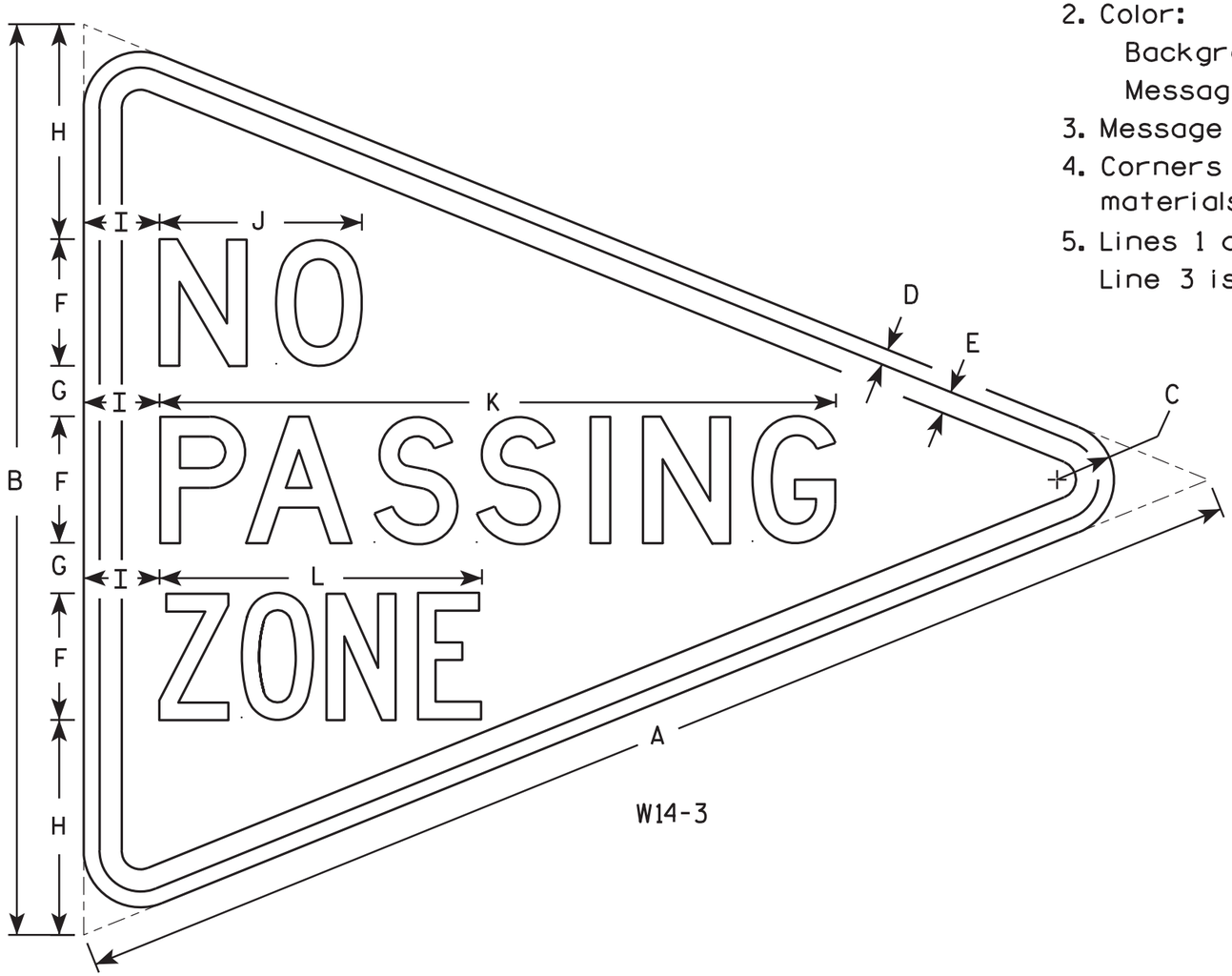
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W13-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 321	E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - See note 5
4. Corners and borders shall be rounded on all base materials for this sign.
5. Lines 1 and 2 are Series D.
   Line 3 is series C.



W14-3

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															10.7
4																											
5																											

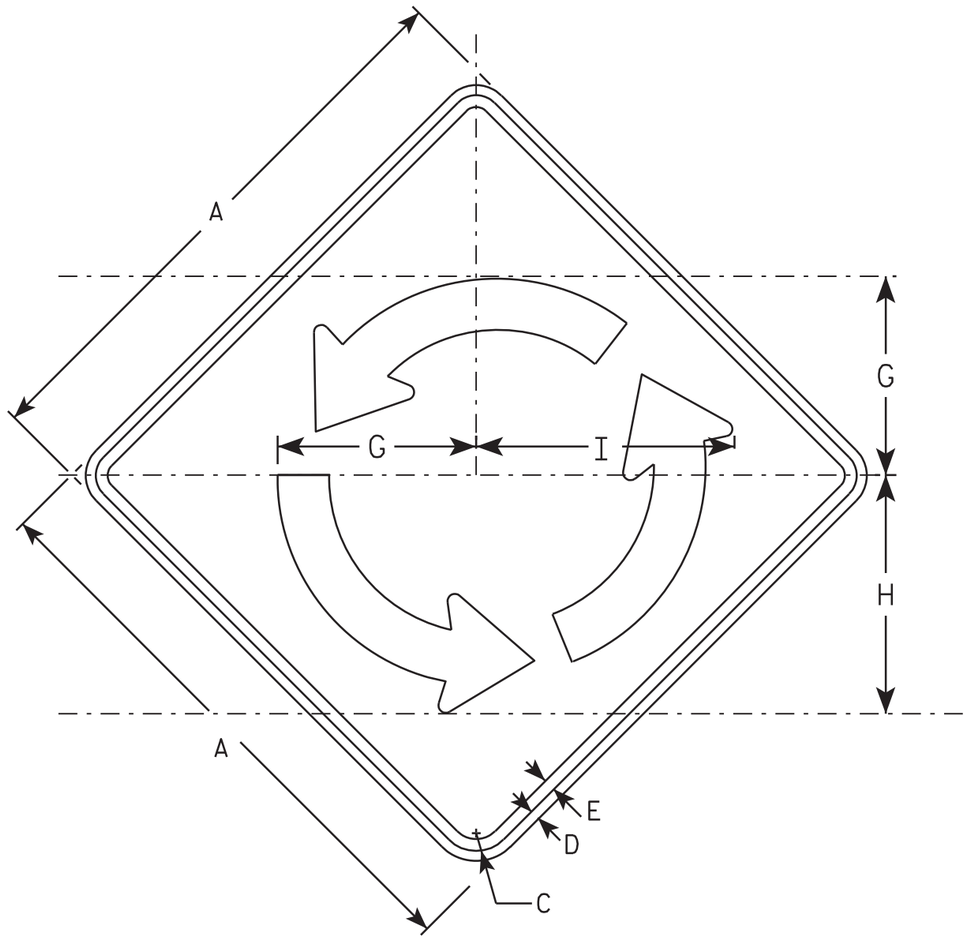
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9

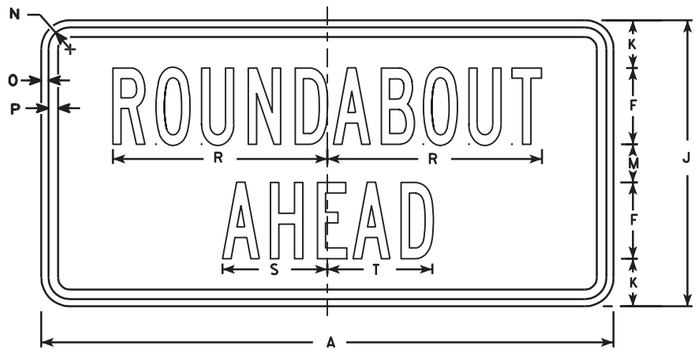
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 322	E



W2-6

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Message - BLACK
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W2-6P

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	W2-6 Area sq. ft.	W2-6P Area sq. ft.
1																										
2S	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
2M	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
3	36		1 5/8	5/8	3/4	5	12 1/2	15	16 1/4	18	2 5/8		2 3/4	1 1/8	3/8	1/2		14	7	6 3/4					9.00	4.50
4	48		2 1/4	3/4	1	6	16 5/8	20	16 1/4	24	4 3/8		3 5/8	1 3/8	1/2	5/8		17	8 1/4	8 1/4					16.0	8.0
5																										

STANDARD SIGN
W2-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W2-6.4

PROJECT NO:

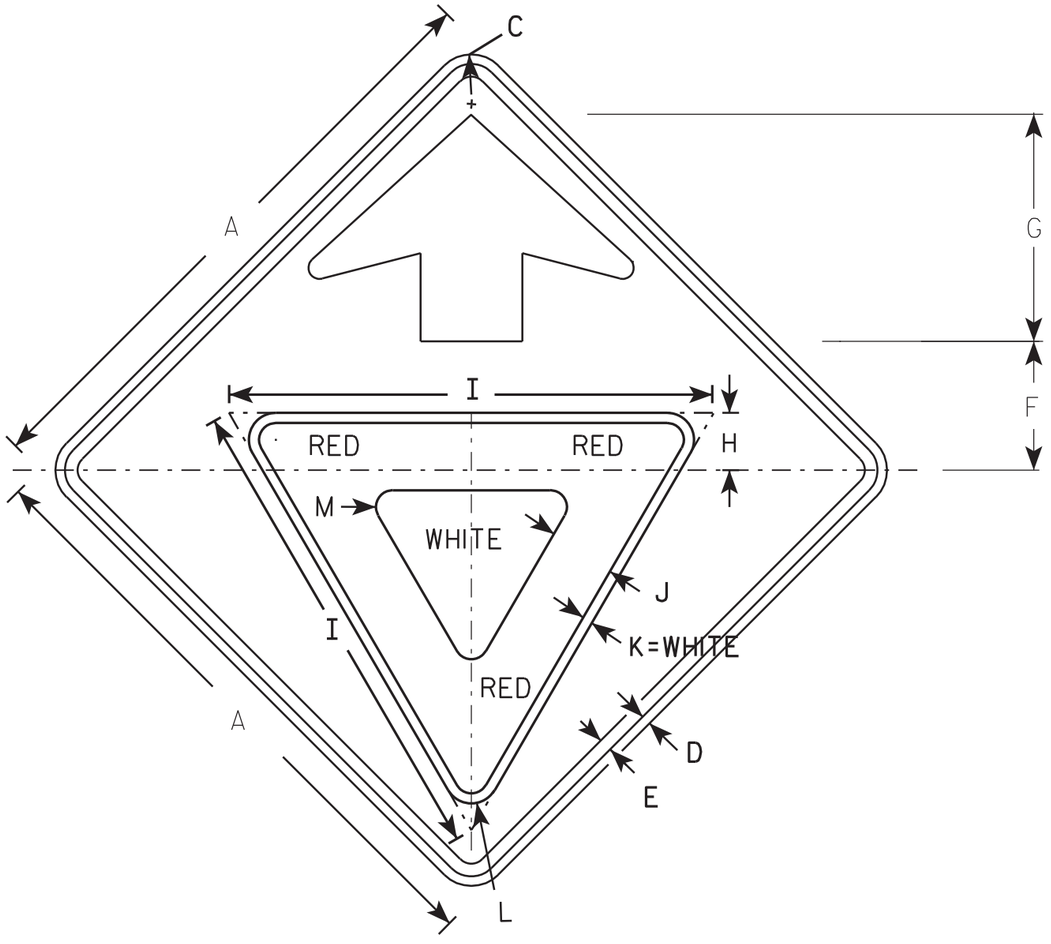
SHEET NO: 323 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W26.DGN PLOT DATE : 21-MAR-2011 13:41 PLOT BY : mscj9h

WISDOT/CADDS SHEET 42

7

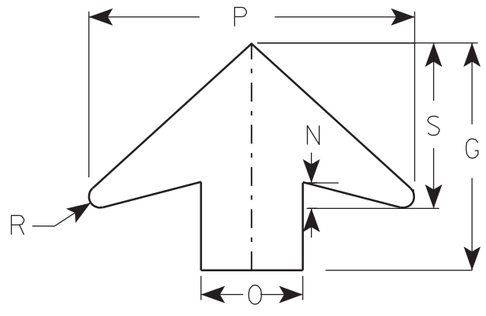
7



W3-2

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	3	25	3 3/8	1/2	1 3/8	7/8	1 1/4	5	16		1/2	8								6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

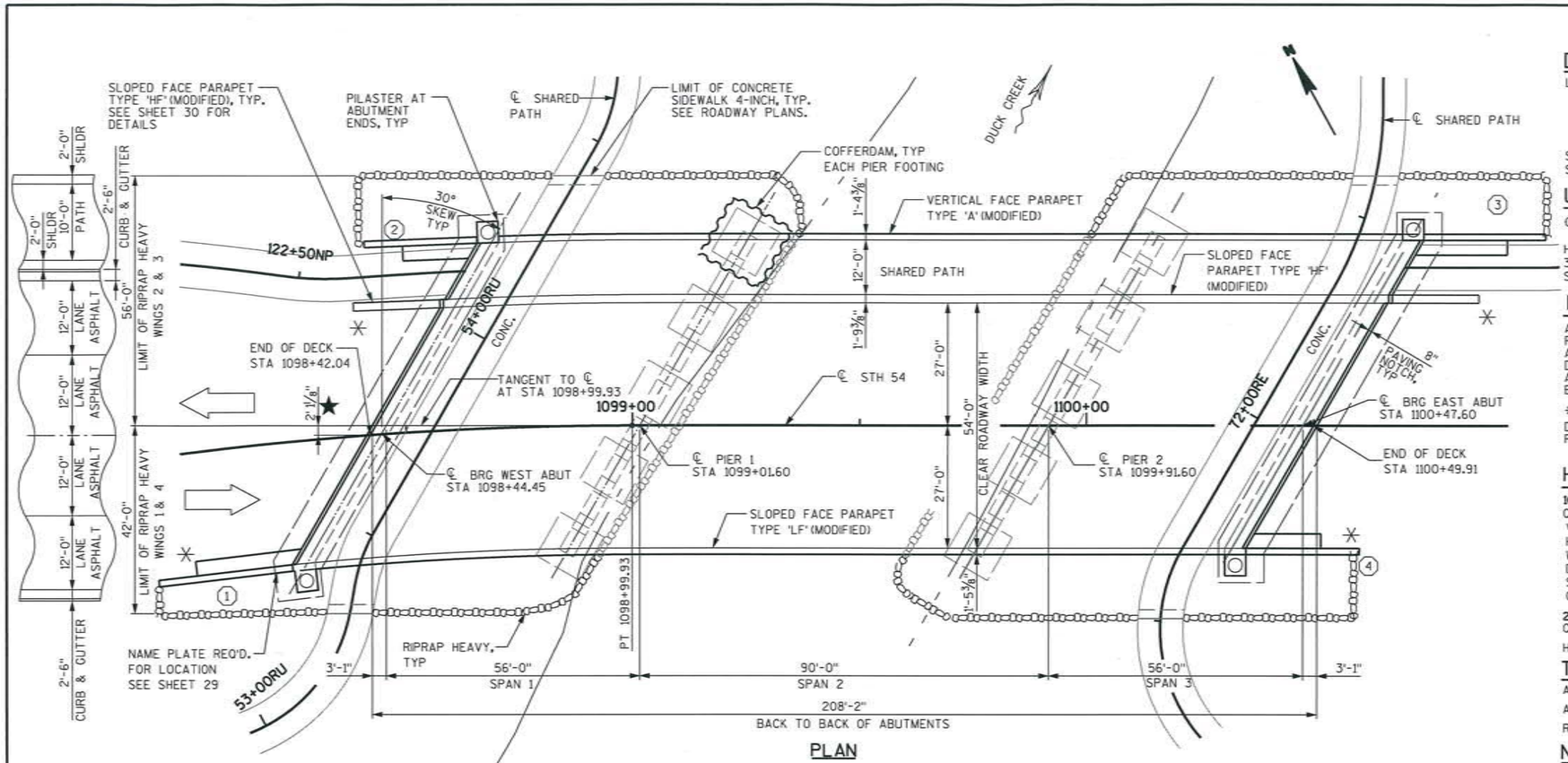
DATE 6/7/10 PLATE NO. W3-2..9

PROJECT NO:

SHEET NO: 324 E

STATE PROJECT NUMBER

9210-11-71

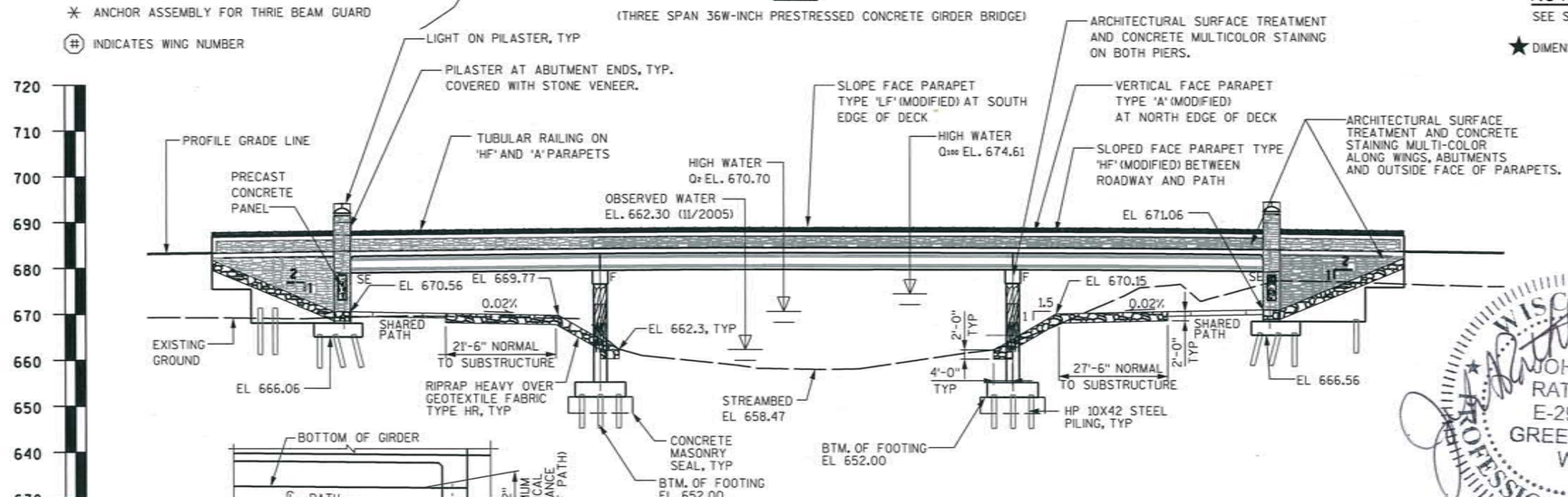


PLAN

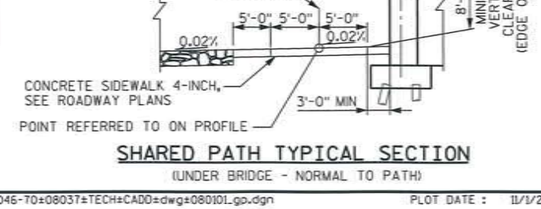
(THREE SPAN 36W-INCH PRESTRESSED CONCRETE GIRDER BRIDGE)

✳ ANCHOR ASSEMBLY FOR THRIE BEAM GUARD

(#) INDICATES WING NUMBER



ELEVATION



SHARED PATH TYPICAL SECTION

(UNDER BRIDGE - NORMAL TO PATH)

DESIGN DATA

LIVE LOAD:

DESIGN RATING	HL-93
INVENTORY RATING	1.09
OPERATING RATING	1.41
MAXIMUM STANDARD PERMIT VEHICLE LOAD	230 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY, SUPERSTRUCTURE	f'c = 4,000 psi
ALL OTHER	f'c = 3,500 psi
HIGH STRENGTH BAR STEEL REINFORCEMENT	fy = 60,000 psi
36W" PRESTRESSED CONCRETE GIRDERS	f'c = 8,000 psi
STRANDS - 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF	fu = 270,000 psi

FOUNDATION DATA:

ABUTMENTS AND PIERS SUPPORTED ON HP 10X42 STEEL PILING WITH A REQUIRED DRIVING RESISTANCE OF 150 TONS* PER PILE AT THE ABUTMENTS AND 180 TONS* AT THE PIERS AS DETERMINED BY THE MODIFIED GATES DYNAMIC EQUATION. ESTIMATED 25'-0" AT THE WEST AND EAST ABUTMENTS AND 15'-0" AT THE PIERS. PILE POINTS REQUIRED. PREBORING REQUIRED AT BOTH PIERS.

*THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING THE MODIFIED GATED TO DETERMINE DRIVEN CAPACITY.

HYDRAULIC DATA:

100 YEAR FREQUENCY

Q_{100}	5550 cfs
VELOCITY	3.9 f/s
HIGH WATER	EL. 674.61
WATERWAY AREA	1424 ft²
DRAINAGE AREA	97.7 mi²
SCOUR CRITICAL CODE	5
OVER TOPPING FREQUENCY	N/A

2 YEAR FREQUENCY

Q_2	1620 cfs
HIGH WATER	EL. 670.70

TRAFFIC DATA:

ADT (2012) = 13,000

ADT (2032) = 19,000

ROADWAY DESIGN SPEED = 35 MPH

NOTE

SEE SHEET 2 FOR COMPLETE LIST OF DRAWINGS

★ DIMENSION GIVEN AT END OF DECK

WISCONSIN
JOHN A. RATHKE
E-29332
GREEN BAY, WI
PROFESSIONAL ENGINEER

BRIDGE OFFICE CONTACT
WILLIAM DREHER, P.E.
TELEPHONE: (608) 266-8489

CONSULTANT CONTACT
JOHN RATHKE, P.E.
TELEPHONE: (920) 496-0500

NO.	DATE	REVISION	BY

Mead & Hunt
Mead & Hunt, Inc.
1345B North Road
Green Bay, WI 54313
920.496.0500
www.meadhunt.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher GAR 12/22/11
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-5-392

STH 54 OVER DUCK CREEK

COUNTY	BROWN
~~TOWN/CITY~~/VILLAGE	HOBART
DESIGN SPEC.	AASHTO LRFD DESIGN SPEC. 5th EDITION
DESIGNED BY	RCP
DESIGN CK'D.	MJB
DRAWN BY	TAV
PLANS CK'D.	GAR

GENERAL PLAN

SHEET 1 OF 39
325

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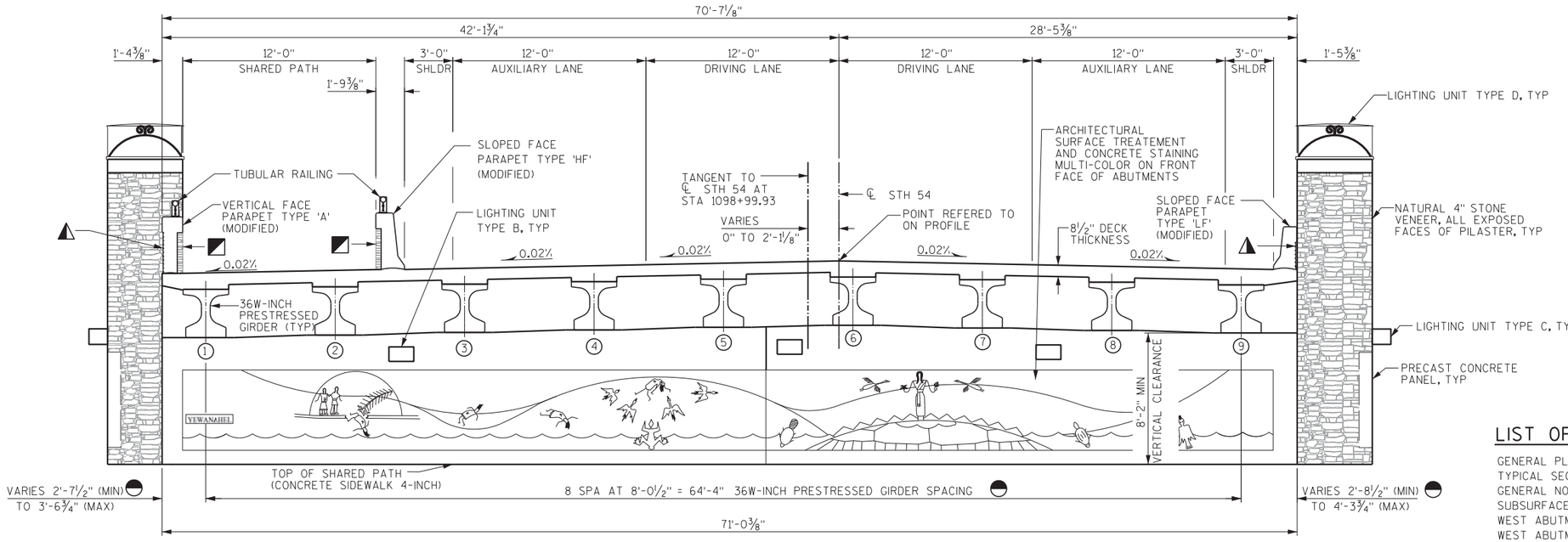
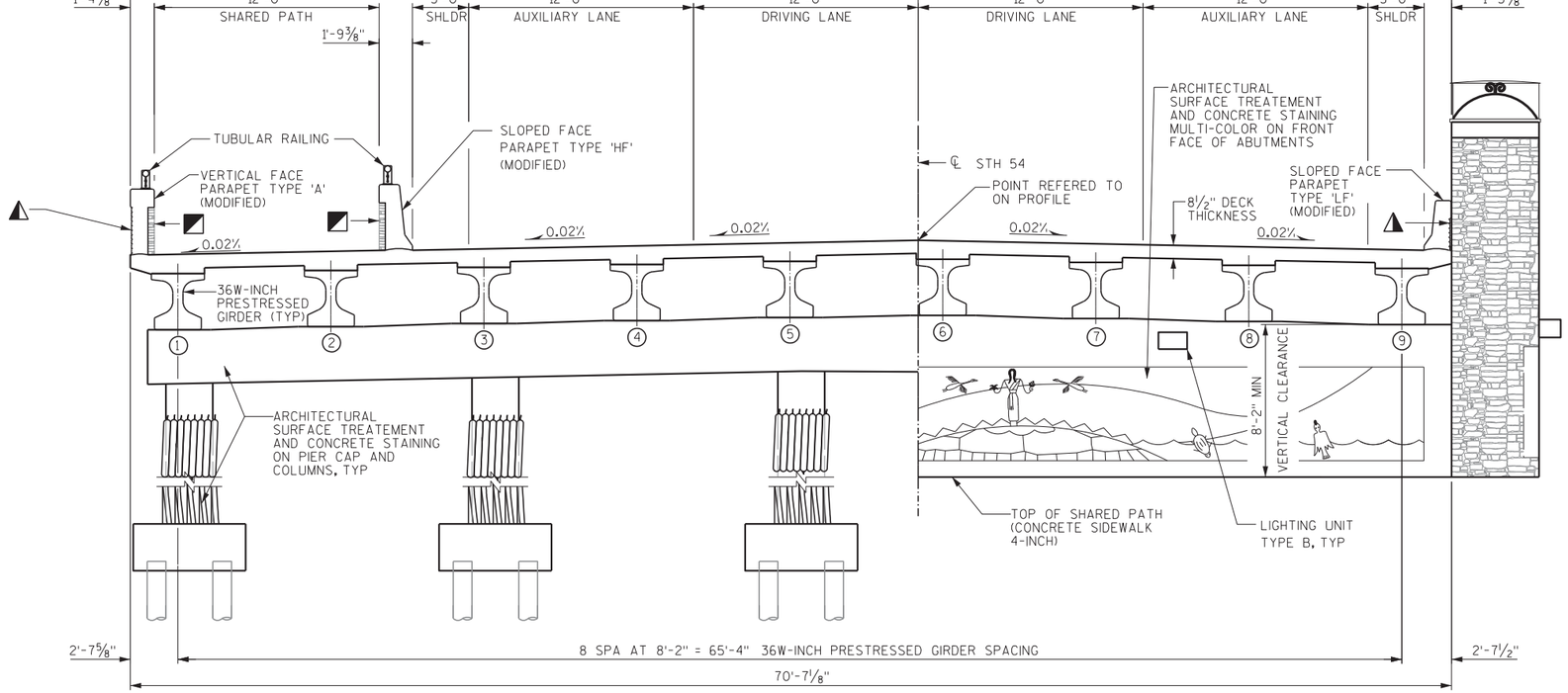
STATE PROJECT NUMBER

9210-11-71



CROSS SECTION THRU ROADWAY

(SPAN 1, LOOKING UPSTATION)



CROSS SECTION THRU ROADWAY

(SPANS 2 & 3, LOOKING UPSTATION)

NOTES

1. "ARCHITECTURAL SURFACE TREATMENT, SPECIAL" AND "CONCRETE STAINING MULTI-COLOR (B-5-392)" SHALL BE PLACED ON THE OUTSIDE FACES OF THE SLOPED FACE PARAPET TYPE 'LF' (MODIFIED) AND THE VERTICAL FACE PARAPET TYPE 'A' (MODIFIED).
2. 4-INCH NATURAL STONE VENEER SET INTO SHARED PATH FACES OF THE SLOPED FACE PARAPET TYPE 'HF' (MODIFIED) AND VERTICAL FACE PARAPET TYPE 'A' (MODIFIED).
3. DIMENSION GIVEN NORMAL TO GIRDER CENTERLINE.
4. (#) INDICATES GIRDER NUMBER

LIST OF DRAWINGS:

GENERAL PLAN — 1
TYPICAL SECTIONS — 2
GENERAL NOTES AND QUANTITIES — 3
SUBSURFACE EXPLORATION — 4
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WEST ABUTMENT FOOTING — 6
WEST ABUTMENT — 7
WEST ABUTMENT DETAILS — 8
WEST ABUTMENT WINGS 1 & 2 — 9
WEST ABUTMENT DETAILS — 10
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EAST ABUTMENT WINGS 3 & 4 — 15
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PIER DETAILS — 18
FRAMING PLAN — 19
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INTERMEDIATE STEEL DIAPHRAGMS — 22
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PILASTER DETAILS — 33
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PILASTER PANEL AESHTETICS — 37
PIER AESTHETICS — 38
PARAPET AESTHETICS — 39

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

TYPICAL SECTIONS

SHEET 2 OF 39
326

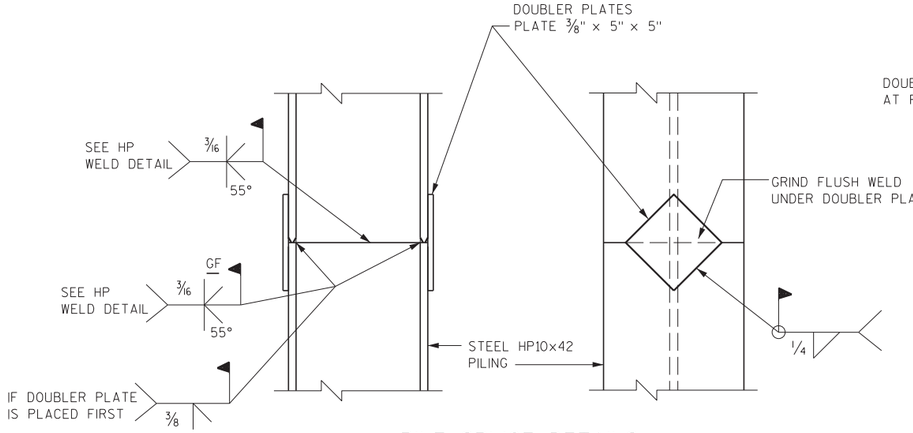
8

8

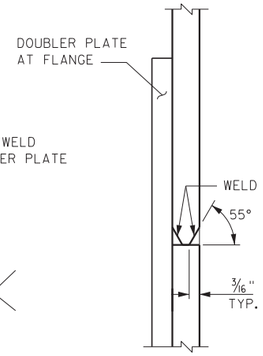
FILE NAME : ±±msn-fp01±Entp±23046-70±08037±TECH±CADD±dwg±080102_ts.dgn PLOT DATE : 11/1/2011 PLOT BY : 1258MJB PLOT SCALE : 8.00 '/ in.

STATE PROJECT NUMBER

9210-11-71

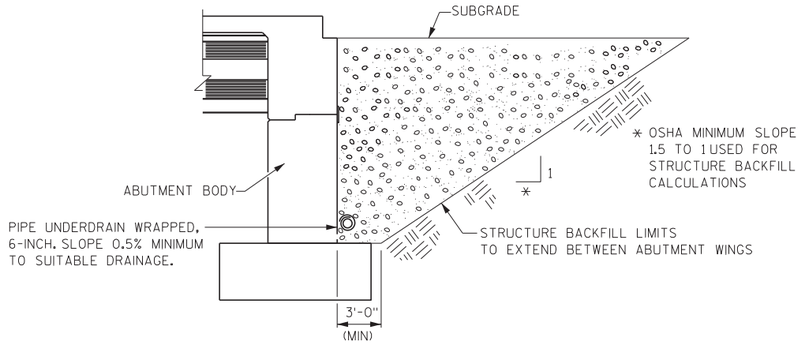


PILE SPLICE DETAILS



HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR



STRUCTURE BACKFILL & PIPE UNDERDRAIN DETAIL

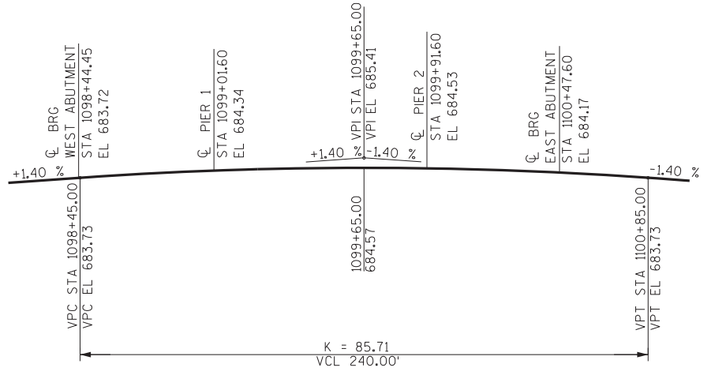
(TYPICAL AT BOTH ABUTMENTS)

◑ BENCH MARKS

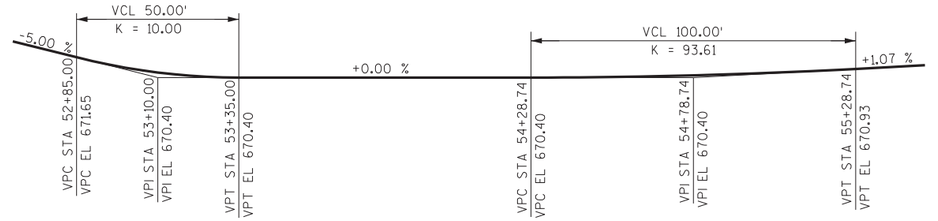
NO.	STATION	DESCRIPTION	ELEV.
577	1101+07.87	POWER POLE, 211.96', RT	679.02
578	1097+57.19	BRIDGE, 171.10', RT	677.90
1008	1114+24.45	CON MON W/S CTH E STAMP 2021964, 242.07', RT	704.34

CURVE DATA

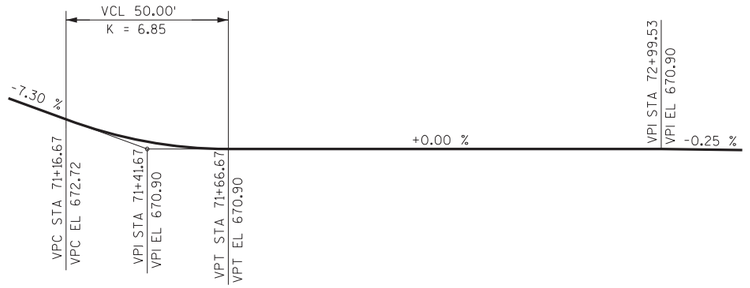
CURVE 10
PI = 1097+96.59
Y = 561705.21
X = 55621.59
Δ = 14° 53' 11"
D = 7° 09' 43"
T = 104.52'
L = 207.85'
R = 800.00'
PC = 1096+92.08
PT = 1098+99.93



PROFILE GRADE LINE, ℄ STH 54



PROFILE GRADE LINE, ℄ RIVER WEST SHARED PATH



PROFILE GRADE LINE, ℄ RIVER EAST SHARED PATH

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEMS	UNIT	W ABUT	PIER 1	PIER 2	E ABUT	SUPER	CAT. 10 TOTAL	CAT. 50 TOTAL	GRAND TOTAL
206.1000	EXCAVATION FOR STRUCTURES BRIDGES (B-05-0392)	LS	---	---	---	---	---	1	---	1
206.5000	COFFERDAMS (B-05-0392)	LS	---	---	---	---	---	1	---	1
210.0100	BACKFILL STRUCTURE	CY	640	---	---	610	---	1250	---	1250
★ 502.0100	CONCRETE MASONRY BRIDGES	CY	350	146	147	334	625	1602	---	1602
502.1100	CONCRETE MASONRY SEAL	CY	---	127	127	---	---	254	---	254
502.3200	PROTECTIVE SURFACE TREATMENT	SY	32	---		30	1810	1872	---	1872
503.0137	PRESTRESSED GIRDER TYPE I 36W-INCH	LF	---	---	---	---	1831	1831	---	1831
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	18530	7530	7530	17930	0	51520	---	51520
★ 505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	8730	28870	29070	8290	139100	214060	---	214060
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	---	---	---	---	54	54	---	54
506.4000	STEEL DIAPHRAGMS (B-05-0392)	EACH	---	---	---	---	32	32	---	32
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	23	---	---	22	---	45	---	45
517.1010.S	CONCRETE STAINING B-05-0392	SF	545	875	910	520	4760	7610	---	7610
517.1015.S.01	CONCRETE STAINING MULTI-COLOR B-05-0392	SF	950	790	550	910	820	1720	2300	4020
550.0020.S	PRE-BORING (ROCK)	LF	---	450	450	---	---	900	---	900
550.0500.S	PILE POINTS	EACH	64	45	45	62	---	216	---	216
550.1100.S	PILING STEEL HP 10-INCH X 42 LB	LF	1600	675	675	1550	---	4500	---	4500
606.0300	RIPRAP HEAVY	CY	380	---	---	445	---	825	---	825
612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	98	---	---	97	---	193	---	193
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	115	---	---	110	---	225	---	225
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	---	---	---	---	4	4	---	4
645.0120	GEOTEXTILE FABRIC TYPE 'HR'	SY	690	---	---	790	---	1480	---	1480
652.0110	CONDUIT RIGID METALLIC 1-INCH	LF	7	---	---	7	---	---	14	14
652.0210	CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH	LF	135	---	---	130	---	---	265	265
SPV.0060.10	PRECAST CONCRETE PANELS	EACH	2	---	---	---	2	---	4	4
SPV.0060.12	4" JUNCTION BOX 6" DEPTH CONCRETE EMBEDDABLE	EACH	7	---	---	---	7	---	14	14
SPV.0105.02	TUBULAR RAILING	LS	---	---	---	---	---	1	---	1
SPV.0165.04	CONCRETE MASONRY SEALER	SF	565	---	---	570	1060	---	2195	2195
SPV.0165.05	STONE VENEER 4-INCH	SF	565	---	---	570	1060	---	2195	2195
SPV.0165.06	ARCHITECTURAL SURFACE TREATMENT (STONE PATTERN)	SF	460	---	---	440	820	1720	---	1720
SPV.0165.07	ARCHITECTURAL SURFACE TREATMENT (BRIDGE CSD)	SF	450	790	550	470	---	---	2300	2300
	NON BID ITEMS									
	FILLER	SIZE								1/2" & 3/4"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH CONCRETE SIDEWALK AND HEAVY RIPRAP WITH GEOTEXTILE FABRIC TYPE 'HR' TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

THE GRADATION OF THE STRUCTURE BACKFILL SHALL MEET THE REQUIREMENTS OF SECTION 209.2.2 OF THE STANDARD SPECIFICATIONS FOR GRADE 1 MATERIAL.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE PRESTRESSED GIRDER DETAILS SHEET, WHICH IS THE MAXIMUM HAUNCH QUANTITY FOR WHICH THE CONTRACTOR WILL BE PAID.

THE EXISTING GROUND LINE SHALL BE THE UPPER LIMIT FOR "EXCAVATION OF STRUCTURES BRIDGES (B-05-0392)".

ALL STATIONS AND ELEVATIONS ARE IN FEET.

LIGHTING FIXTURES ARE SHOWN FOR REFERENCE ONLY. SEE LIGHTING PLANS FOR DETAILS. INCLUDED IN ROADWAY QUANTITIES.

◑ ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

★ THE CONCRETE AND REINFORCEMENT OF THE PARAPETS ON THE WINGWALLS AND THE TYPE 'HF' PARAPET AND FOOTING IN THE APPROACH ARE INCLUDED IN THE ABUTMENT QUANTITIES. THE PILASTER CONCRETE AND REINFORCEMENT IS INCLUDED IN THE ABUTMENT QUANTITIES. SUPERSTRUCTURE QUANTITIES INCLUDE THE CONCRETE AND REINFORCEMENT OF THE PARAPETS ON THE DECK.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

GENERAL NOTES & QUANTITIES

SHEET 3 OF 39
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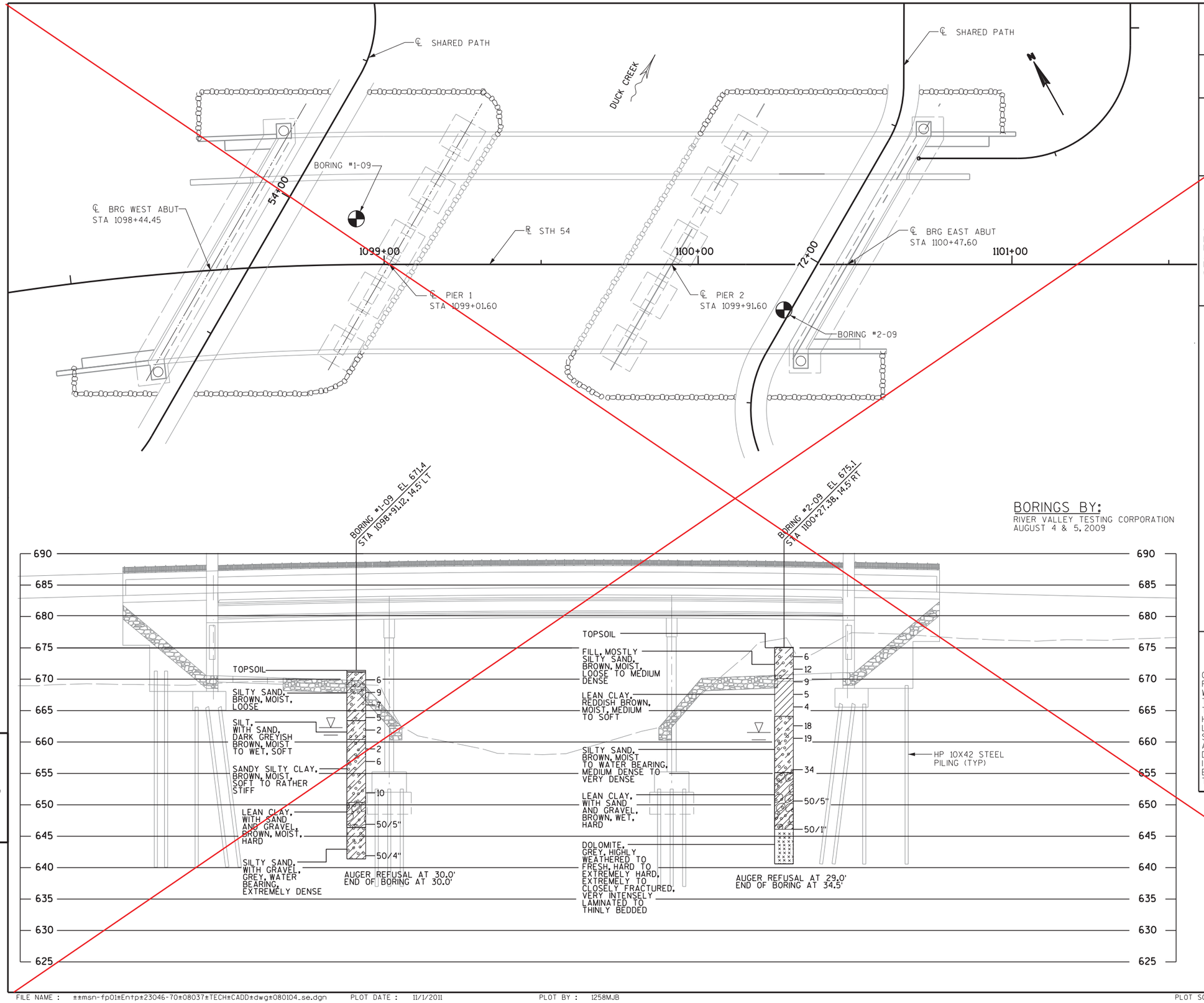

BORINGS BY:

RIVER VALLEY TESTING CORPORATION
AUGUST 4 & 5, 2009

STATE PROJECT NUMBER

9210-11-71

ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING

95/6=95 BLOWS FOR 6" PENETRATION
PROBING TAKEN WITH A 350# WT. FALLING 18" ON A 2" O.D. POINT.

PROBING NO.
STA.
ELEVATION
7 AVERAGE BLOWS PER FOOT
REFUSAL 95/6

LEGEND OF BORING

BORING NO.
ELEV.
STA.
UNCONFINED STRENGTH → 7.7
BLOWS PER FT. USING 140# WT. FALLING 30"
WASH SAMPLE
SHELBY TUBE — S.T.
GROUND WATER ELEVATION
NO GROUND WATER OBSERVED ABOVE THIS ELEVATION
SANDY GRAVEL
F. BOULDERS OR COBBLES
SAND
SILTY CLAY
SO LIMESTONE

UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV PLANS CK'D. GAR

SUBSURFACE EXPLORATION

SHEET 4 OF 39
328

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STATE PROJECT NUMBER

9210-11-71

ABBREVIATIONS

F— FINE M— MEDIUM C— COARSE
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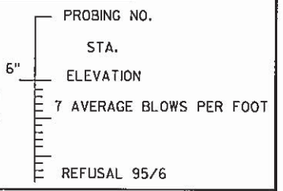
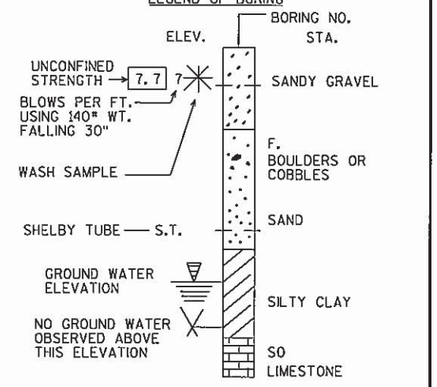


LEGEND OF BORING



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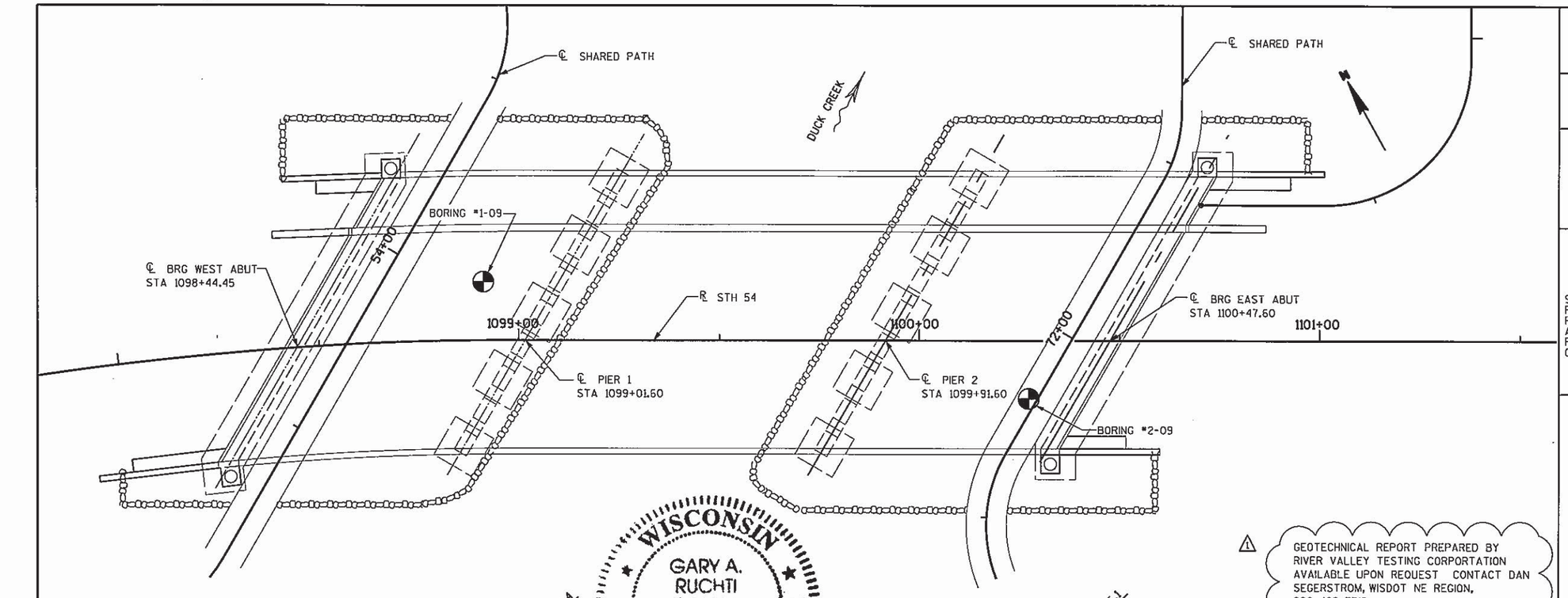
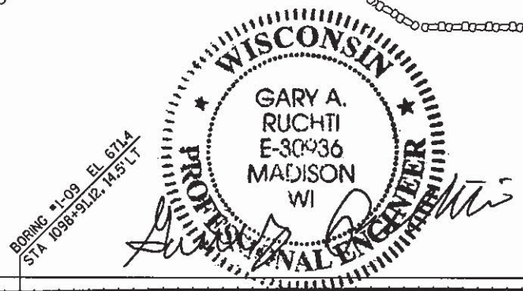


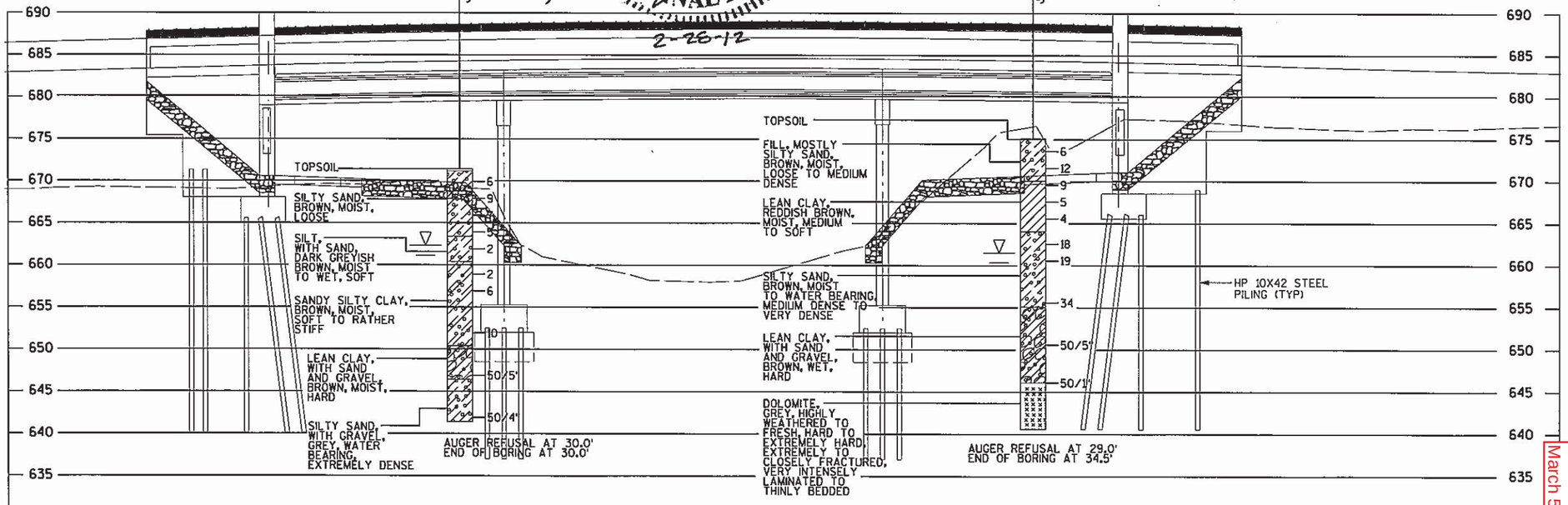
⚠1 GEOTECHNICAL REPORT PREPARED BY RIVER VALLEY TESTING CORPORTATION AVAILABLE UPON REQUEST CONTACT DAN SEGERSTROM, WISDOT NE REGION, 920-492-7718.

BORINGS BY:
RIVER VALLEY TESTING CORPORATION
AUGUST 4 & 5, 2009



William C. Drecher KAR 02/28/12

2-28-12



NO.	DATE	REVISION	BY
⚠1	2-25-12	ADDED NOTE FOR GEOTEC REPORT	TAV

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV PLANS CK'D. GAR

SUBSURFACE EXPLORATION

SHEET 4 OF 39

328A

Addendum No. 2
ID 9210-11-71
Revised Sheet 328
March 5, 2012

8

8

FILE NAME : X:±23046-70±08037±TECH±CADD±dwg±080104_se.dgn PLOT DATE : 2/28/2012 PLOT BY : 1253tav PLOT SCALE : 30.00 '/ In.

STATE PROJECT NUMBER

9210-11-71

NOTES

FOR PILE SPLICE DETAILS SEE SHEET 2

FILL / EXCAVATE TO BOTTOM OF ABUTMENT FOOTING EL 666.06 BEFORE DRIVING PILING.

WEST ABUTMENT TO BE SUPPORTED ON HP 10X42 STEEL PILING WITH A REQUIRED DRIVING RESISTANCE OF 150 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC EQUATION. ESTIMATED 25' LONG.

SEE SHEET 6 FOR SECTION THRU ABUTMENT BODY AND FOOTING STEEL.

SEE SHEET 7 FOR ABUTMENT BODY STEEL.

SEE SHEET 8 FOR CONDUIT AND JUNCTION BOX PLACEMENT DETAILS.

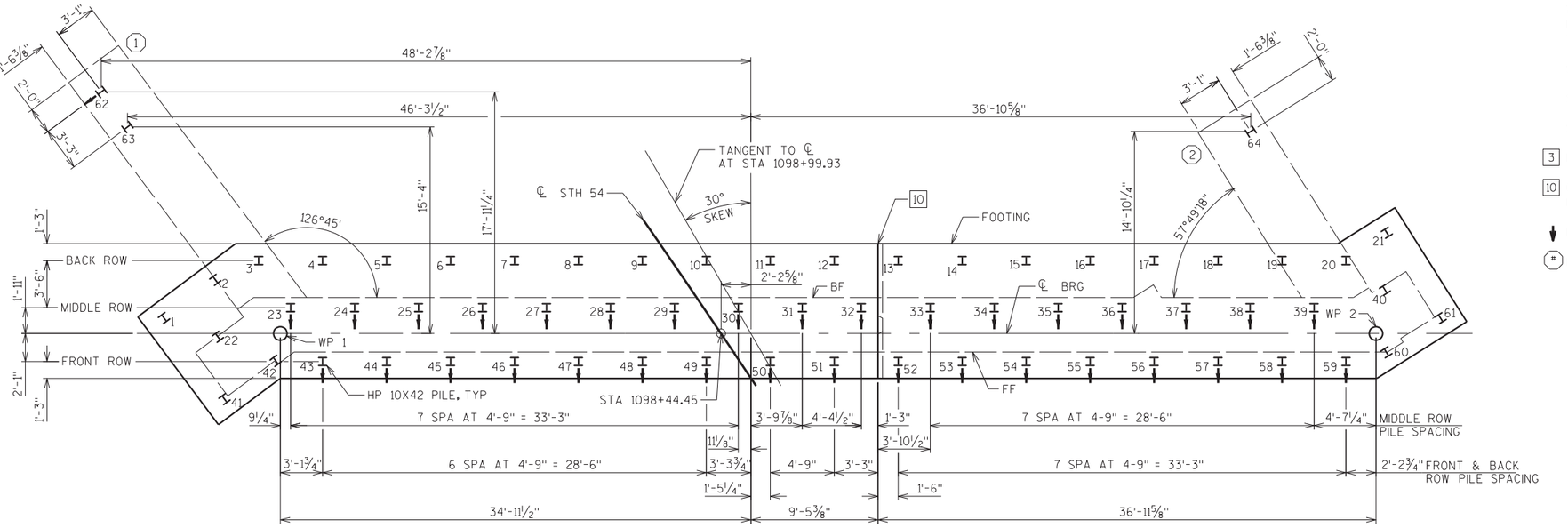
[3] PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN TO SUITABLE DRAINAGE.

[10] CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 8". VERTICAL KEYWAY IN ABUTMENT BODY AND HORIZONTAL KEYWAY IN FOOTING.

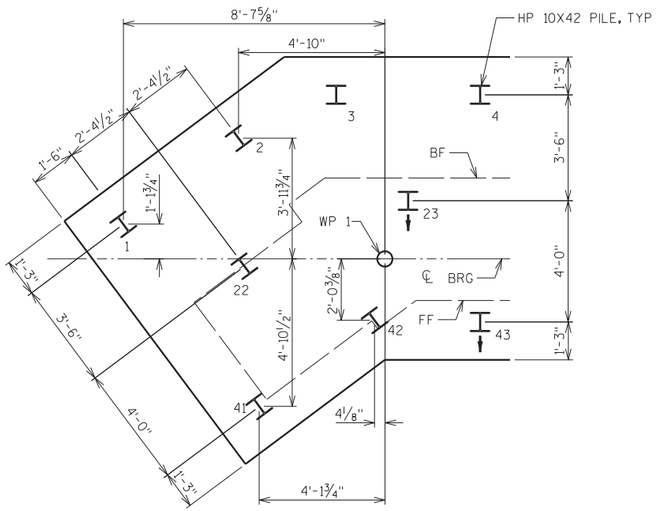
INDICATES BATTERED PILE (1:4) IN DIRECTION SHOWN

(#) INDICATES WING NUMBER

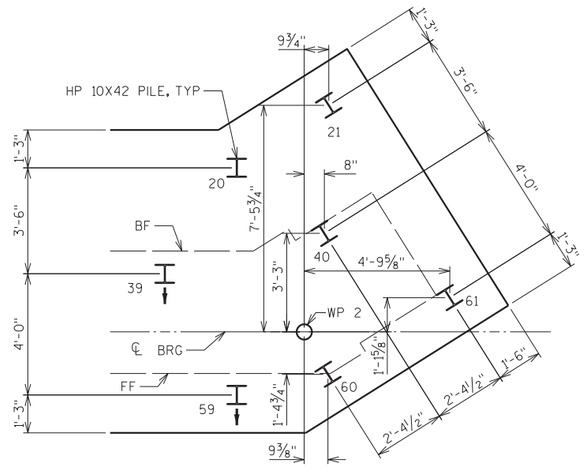
FF - FRONT FACE
BF - BACK FACE
EF - EACH FACE
WP - WORKING POINT



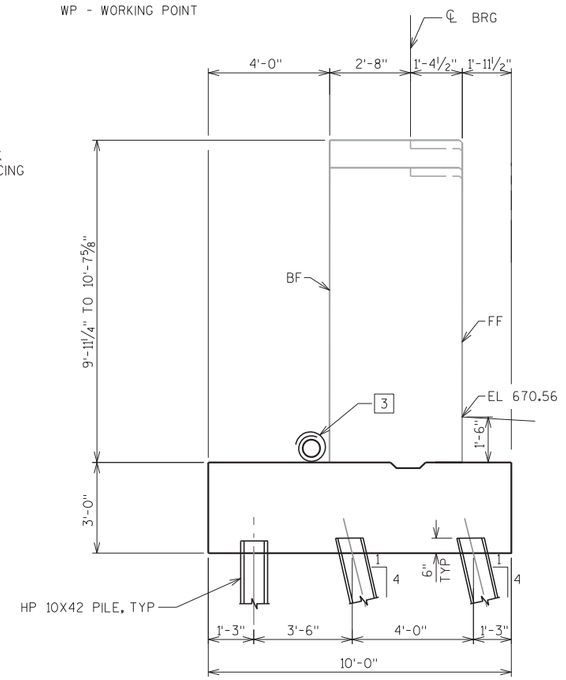
PILE PLAN



PILE SPACING AT SOUTH END



PILE SPACING AT NORTH END



TYPICAL SECTION

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

WEST ABUTMENT PILE LAYOUT

SHEET 5 OF 39
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STATE PROJECT NUMBER

9210-11-71

NOTES

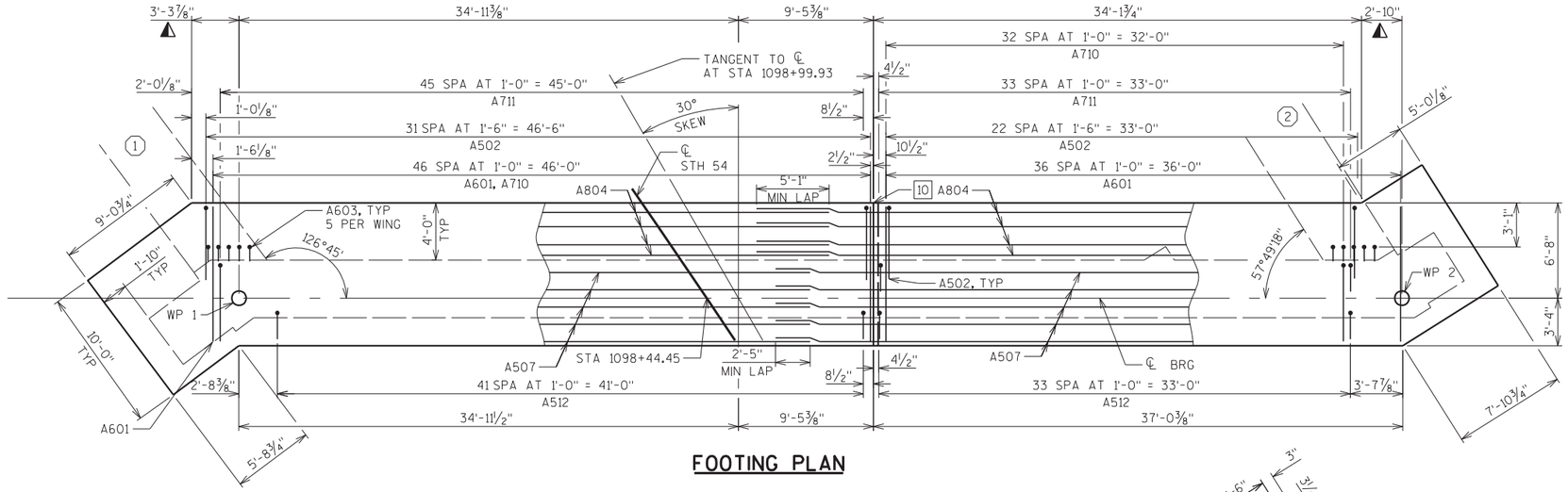
1. 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE. EXTEND FROM BEAM SEAT TO TOP OF WING.
3. PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN TO SUITABLE DRAINAGE.
5. 4" X ¾" FILLER LENGTH OF ABUTMENT.
9. STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING PADS AND/OR SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".
10. CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 8". VERTICAL KEYWAY IN ABUTMENT BODY AND HORIZONTAL KEYWAY IN FOOTING.
11. KEYED CONSTRUCTION JOINT FORMED BY A BEVELED 2" X 6".
12. "CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH".
13. "CONDUIT RIGID METALLIC 1-INCH".

◓ ARCHITECTURAL SURFACE TREATMENT, 1½" MAX RELIEF. SEE SHEET 34 FOR DETAILS. NOT SHOWN FOR CLARITY.

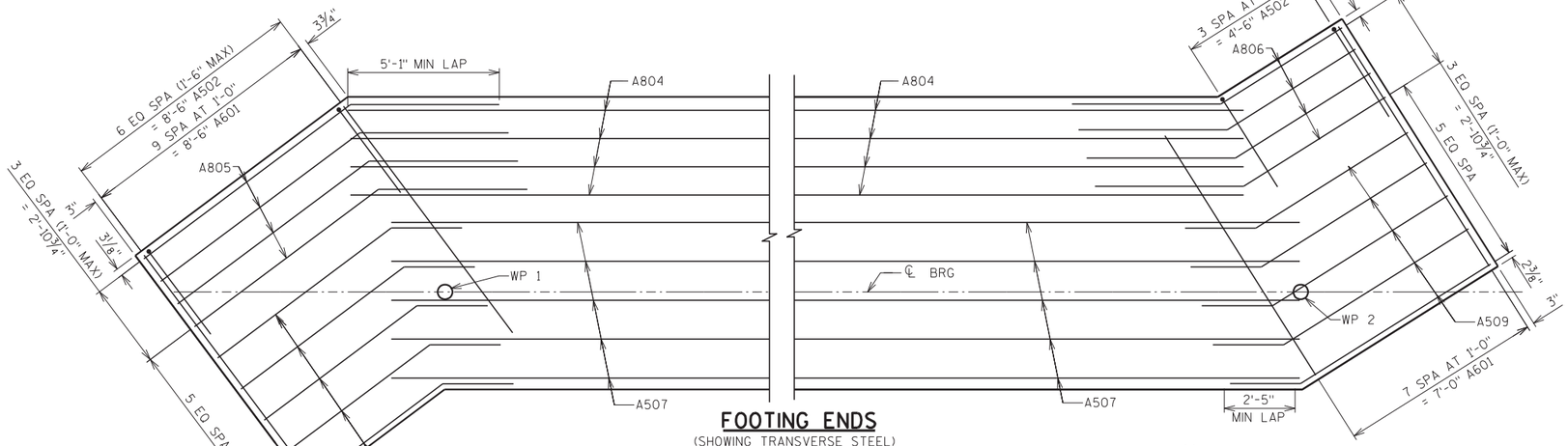
◭ DIMENSION FROM CORNER POINTS TO WORKING POINTS.

(#) INDICATES WING NUMBER

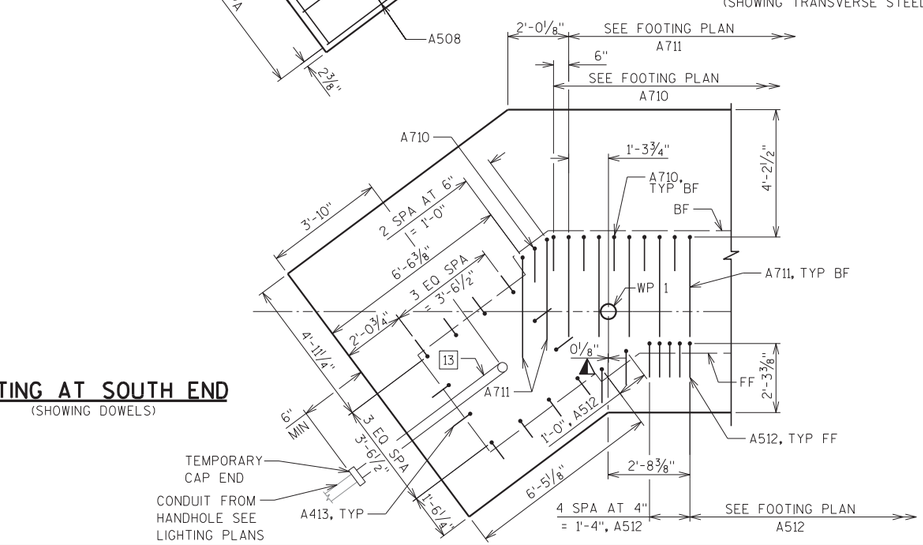
FF - FRONT FACE
BF - BACK FACE
EF - EACH FACE
WP - WORKING POINT



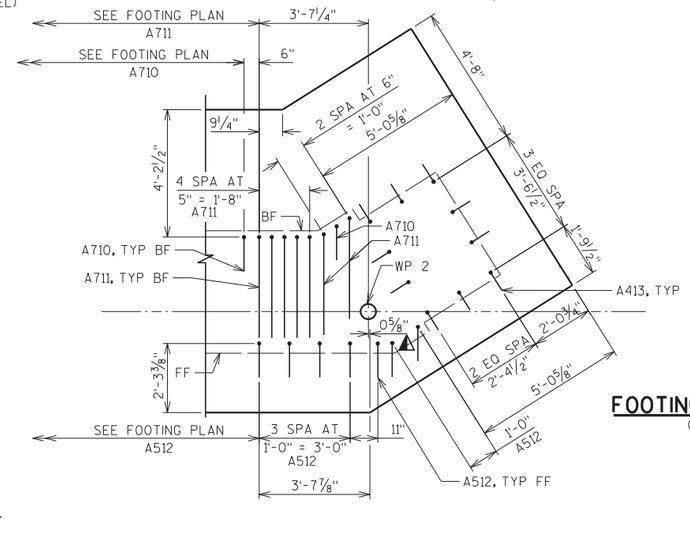
FOOTING PLAN



FOOTING ENDS
(SHOWING TRANSVERSE STEEL)



FOOTING AT SOUTH END
(SHOWING DOWELS)



FOOTING AT NORTH END
(SHOWING DOWELS)

TYPICAL SECTION

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

WEST ABUTMENT FOOTING

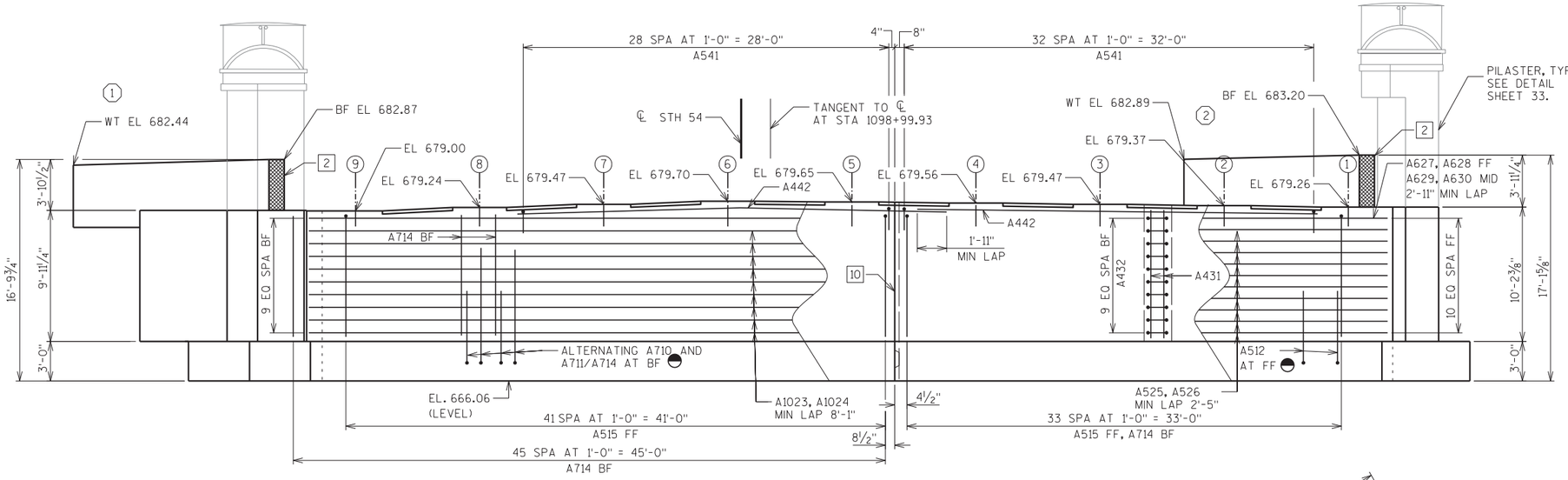
SHEET 6 OF 39
330

8

8

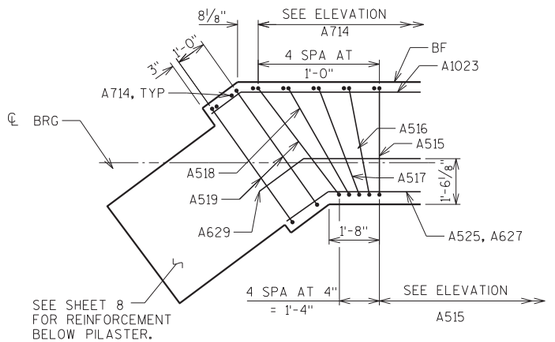
STATE PROJECT NUMBER

9210-11-71

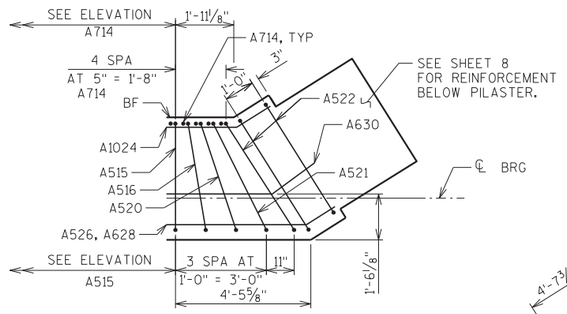


ELEVATION

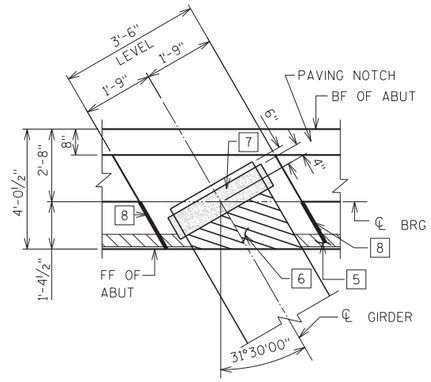
WEST ABUTMENT LOOKING WEST
(PILES NOT SHOWN)



BODY STIRRUPS AT SOUTH END



BODY STIRRUPS AT NORTH END



BEARING PAD DETAIL

NOTES:

DO NOT PLACE FILL ABOVE ELEVATION 670.56 AT WEST ABUTMENT BEFORE SUPERSTRUCTURE IS IN PLACE.

1. 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE. EXTEND FROM BEAM SEAT TO TOP OF WING.
2. ½" FILLER - EXTENDED FROM BEAM SEAT TO TOP OF PARAPET, INCLUDED IN WING LENGTH. SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
3. PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN TO SUITABLE DRAINAGE.
4. PIPE UNDERDRAIN UNPERFORATED 6-INCH (SLOPE TO DRAIN). ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SDD REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN. SEE DRAINAGE DETAILS ON SHEET 8 FOR MORE DETAILS.
5. 4" x ¾" FILLER LENGTH OF ABUTMENT.
6. ¾" PREFORMED FILLER UNDER GIRDERS.
7. NON-LAMINATED ELASTOMERIC BEARING PAD ½" X 8" X 2'-10"
8. ¾" CORK FILLER ON VERTICAL BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER
9. STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING PADS AND/OR SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".
10. CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 8". VERTICAL KEYWAY IN ABUTMENT BODY AND HORIZONTAL KEYWAY IN FOOTING.

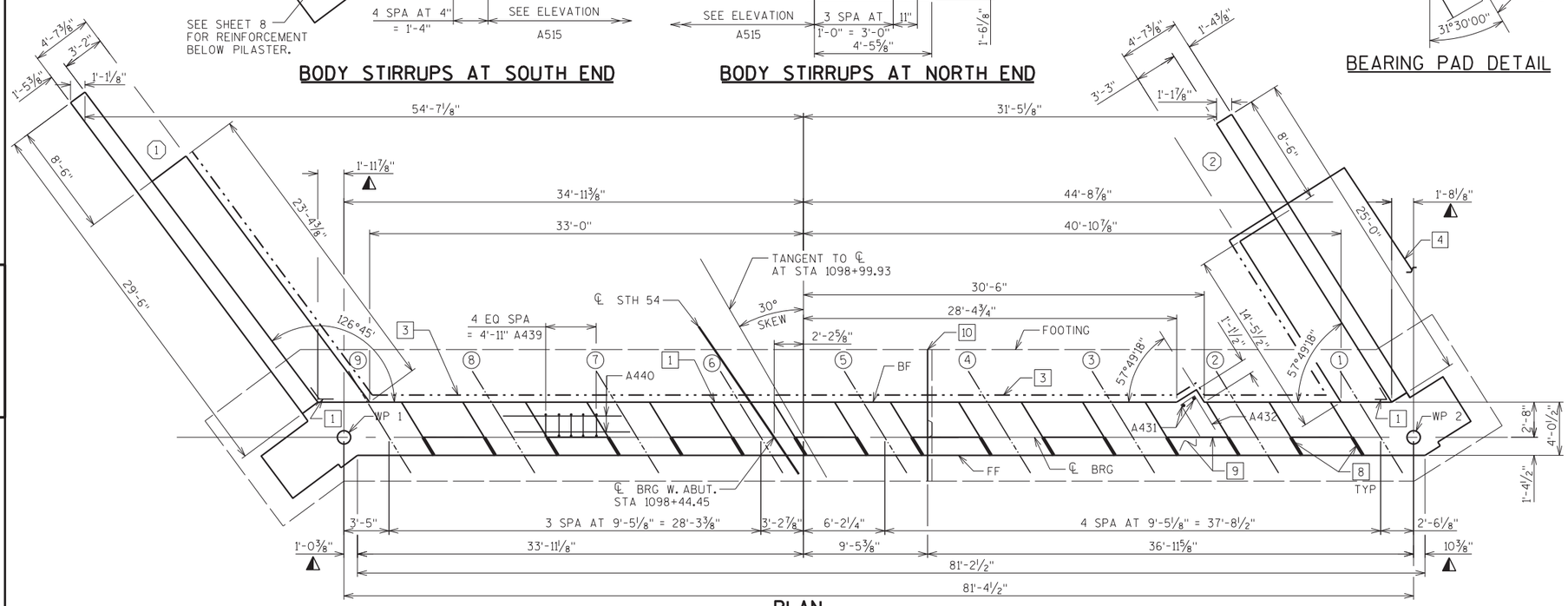
◒ SEE FOOTING SHEET 6

◭ DIMENSION FROM CORNER POINTS TO WORKING POINTS

(#) INDICATES WING NUMBER

(#) INDICATES GIRDER NUMBER

FF - FRONT FACE
BF - BACK FACE
WT - WING TIP
WP - WORKING POINT



PLAN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

WEST ABUTMENT

SHEET 7 OF 39
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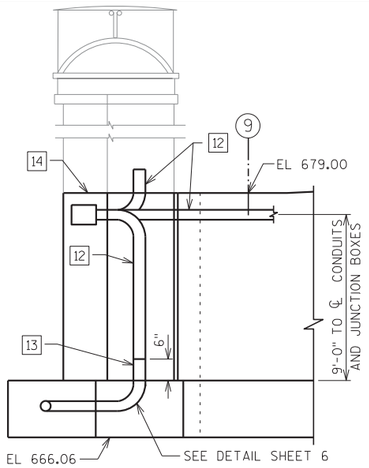
8

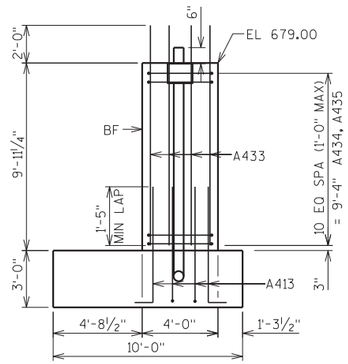
8

STATE PROJECT NUMBER

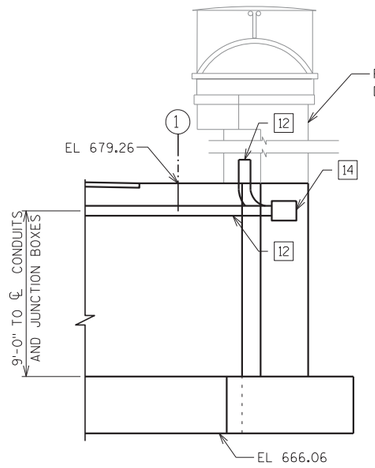
9210-11-71



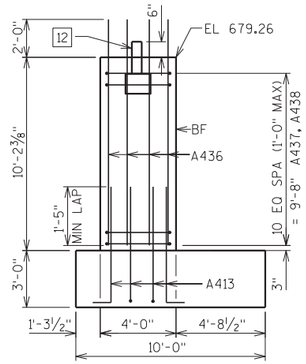
SOUTH END OF ABUTMENT



END VIEW
(PILASTER NOT SHOWN)



NORTH END OF ABUTMENT



END VIEW
(PILASTER NOT SHOWN)

NOTES:

STONE VENEER 4-INCH NOT SHOWN FOR CLARITY. SEE SHEET 36 FOR DETAILS.

EXPANSION ANGLES AND ADAPTER FITTINGS TO BE INCIDENTAL TO "CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH".

WHEN CONNECTING NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS U.L. LISTED FOR ELECTRICAL USE SHALL BE USED.

3 USE MINIMUM BENDING RADIUS PER WISCONSIN ELECTRICAL CODE. PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN TO SUITABLE DRAINAGE.

4 PIPE UNDERDRAIN UNPERFORATED 6-INCH SLOPE TO DRAIN). ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SDD REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN.

12 "CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH".

13 "CONDUIT RIGID METALLIC 1-INCH".

14 "4" JUNCTION BOX 6" DEPTH CONCRETE EMBEDDABLE"

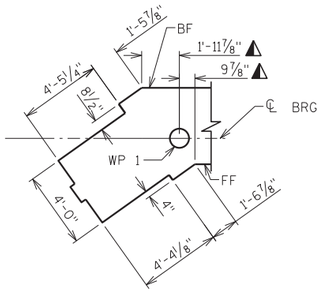
15 CONCRETE BUMP OUT TO BE SIZED TO BOTH MATCH MINIMUM BASE DIMENSIONS OF LIGHT AND REQUIRED CONCRETE COVER TO JUNCTION BOX.

◐ THESE DIMENSIONS TO BE VERIFIED WITH LIGHT MANUFACTURER.

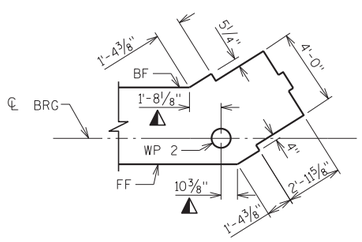
◭ DIMENSIONS FROM CORNER POINTS TO WORKING POINTS.

(#) INDICATES GIRDER NUMBER

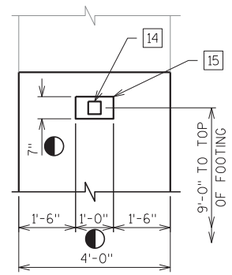
FF - FRONT FACE
BF - BACK FACE
WP - WORKING POINT



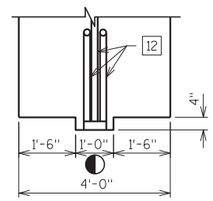
PLAN VIEW - SOUTH END
(SHOWING DIMENSIONS)



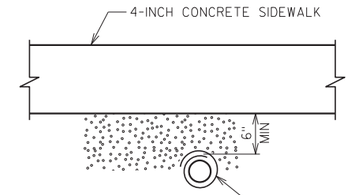
PLAN VIEW - NORTH END
(SHOWING DIMENSIONS)



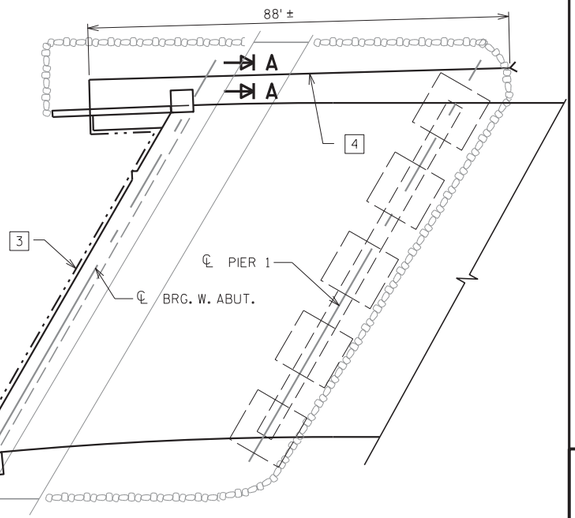
ELEVATION VIEW OF BUMP OUT



PLAN VIEW OF BUMP OUT



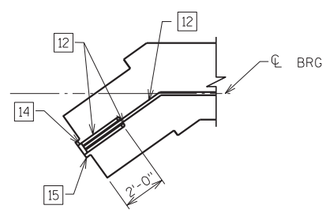
SECTION A-A



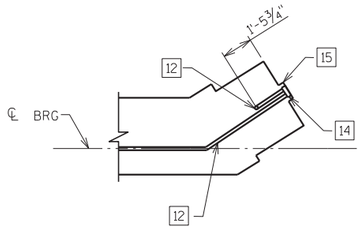
DRAINAGE DETAIL

PLAN VIEW - SOUTH END
(SHOWING REINFORCEMENT)

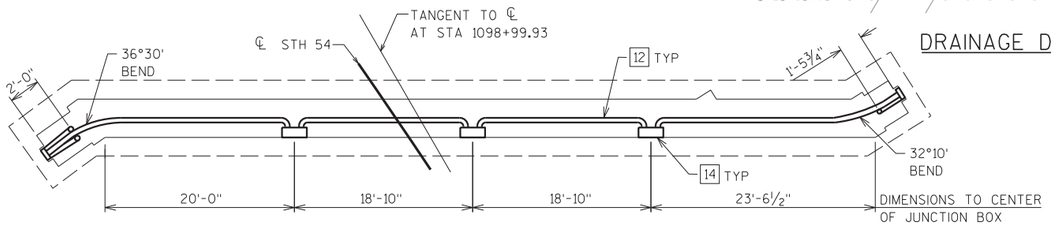
PLAN VIEW - NORTH END
(SHOWING REINFORCEMENT)



PLAN VIEW - SOUTH END
(SHOWING CONDUIT)



PLAN VIEW - NORTH END
(SHOWING CONDUIT)



PLAN VIEW - CONDUIT & JUNCTION BOX LAYOUT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

WEST ABUTMENT DETAILS

SHEET 8 OF 39
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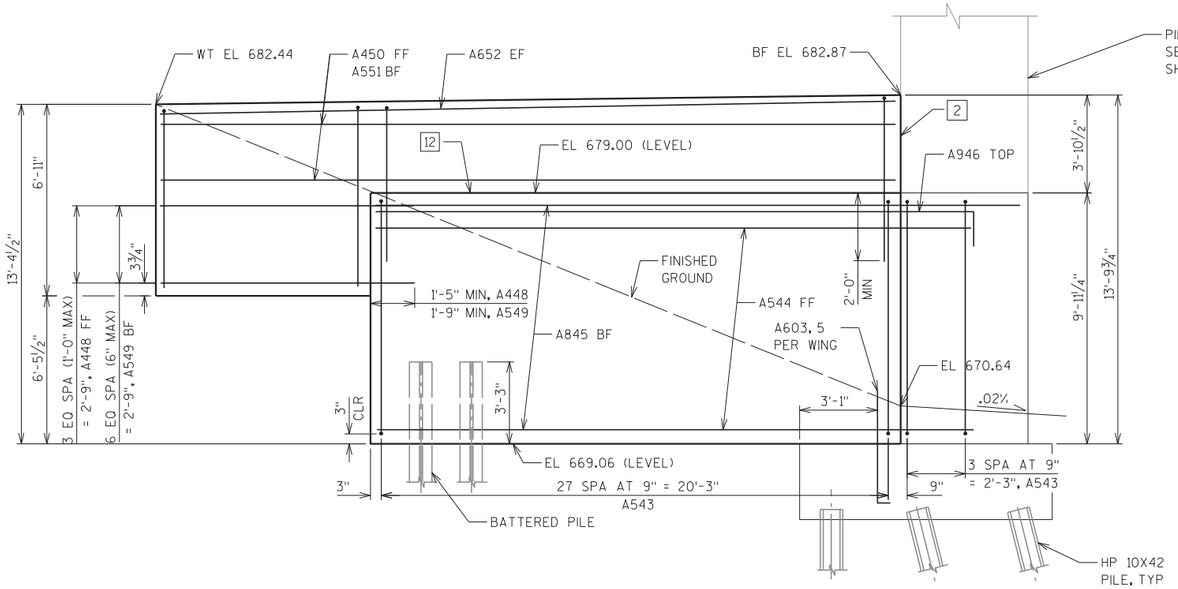
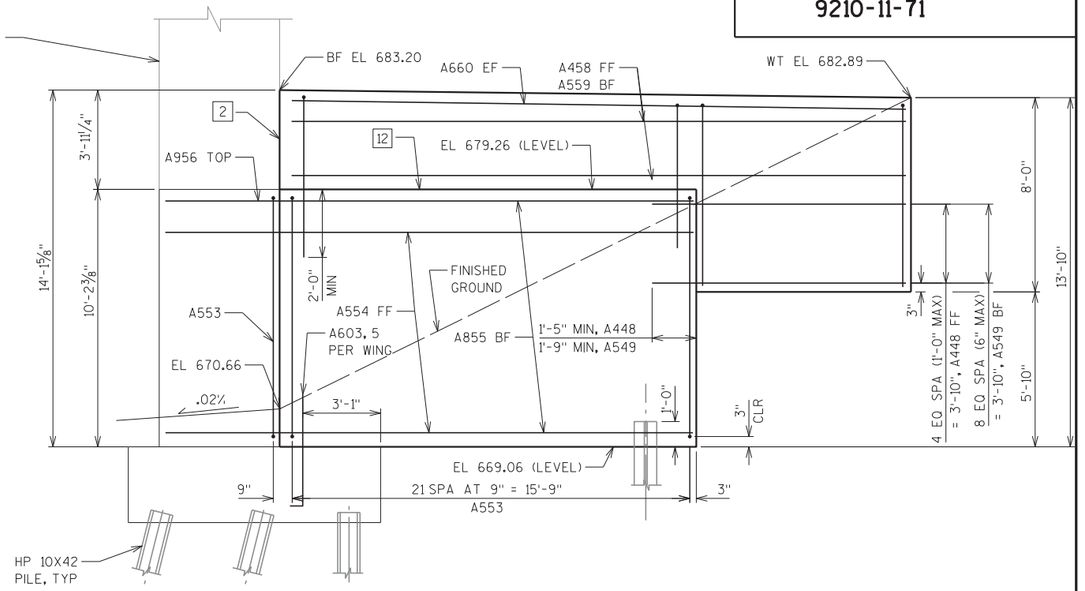
STATE PROJECT NUMBER

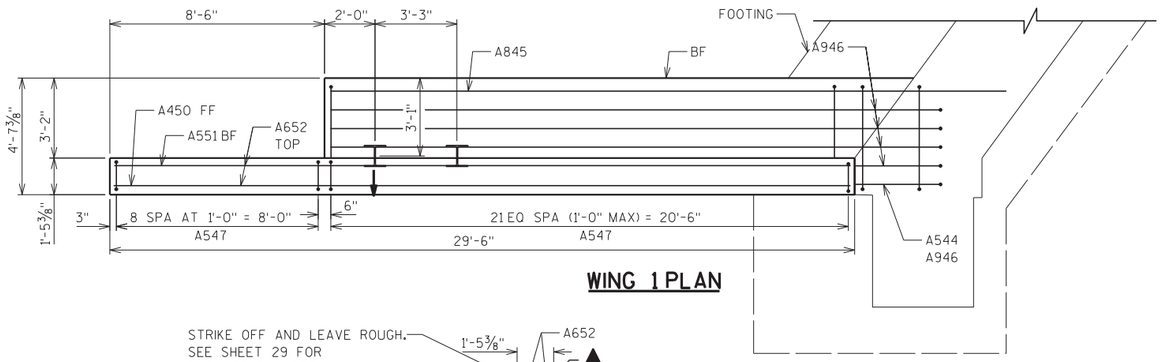
9210-11-71



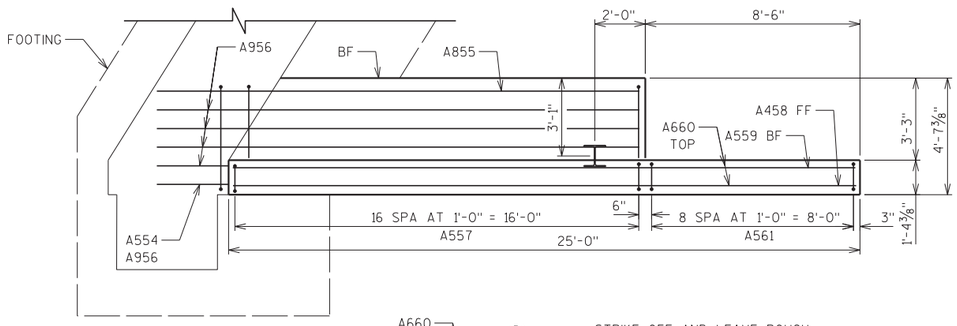
WING 1



WING 2

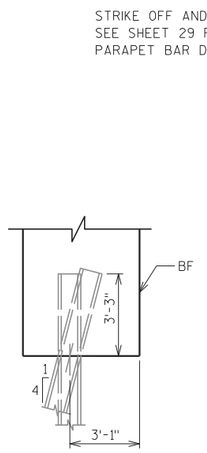


WING 1 PLAN

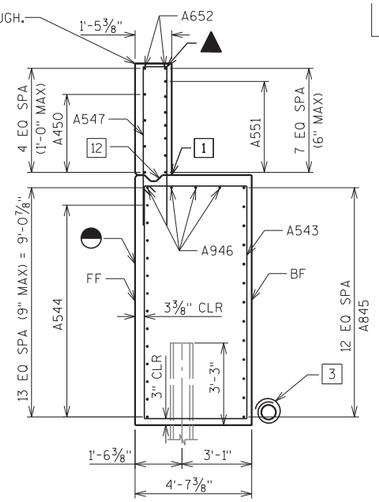


WING 2 PLAN

STRIKE OFF AND LEAVE ROUGH. SEE SHEET 29 FOR PARAPET BAR DETAILS.



BATTERED PILE DETAIL



SECTION THRU WING 1

NOTES:

1. 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE. EXTEND FROM BEAM SEAT TO TOP OF WING.
2. ½" FILLER - EXTENDED FROM BEAM SEAT TO TOP OF PARAPET, INCLUDED IN WING LENGTH. SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
3. PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN TO SUITABLE DRAINAGE.
12. OPTIONAL KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2" X 6". USE ¾" V-GROOVE ON FF OF WING WALL AND WATERPROOFING ON BF IF OPTIONAL CONSTRUCTION JOINT IS USED.

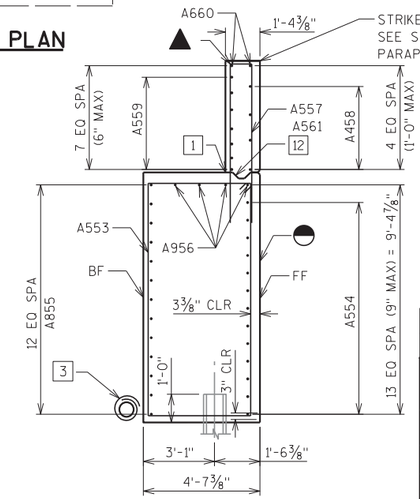
◓ ARCHITECTURAL SURFACE TREATMENT, ¾" CAP AND ⅝" MAX RELIEF. SEE SHEET 36 FOR DETAILS. NOT SHOWN FOR CLARITY.

▲ ELEVATIONS AND DIMENSIONS GIVEN TO THIS POINT.

↓ INDICATES BATTERED PILE (1:4) IN DIRECTION SHOWN.

FF - FRONT FACE
BF - BACK FACE
EF - EACH FACE

STRIKE OFF AND LEAVE ROUGH. SEE SHEET 31 FOR PARAPET BAR DETAILS.



SECTION THRU WING 2

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

WEST ABUTMENT WINGS 1 & 2

SHEET 9 OF 39
333

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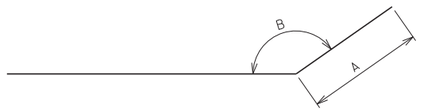
8

STATE PROJECT NUMBER

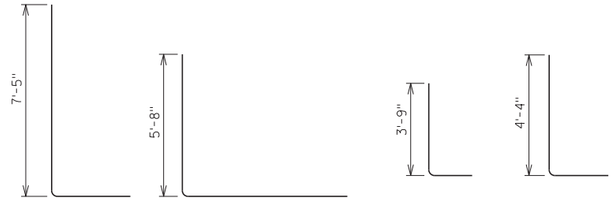
9210-11-71

A502 A603

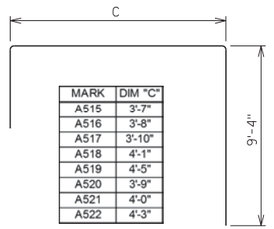


A805, A806, A508, A509, A1023, A1024, A525, A526, A627, A628, A629, A630

MARK	DIM "A"	ANGLE "B"
A805	5'-1"	143° 15'
A806	5'-1"	147° 50'
A508	2'-5"	143° 15'
A509	2'-5"	147° 50'
A1023	1'-3"	143° 15'
A1024	1'-2"	147° 50'
A525	1'-3"	143° 15'
A526	1'-2"	147° 50'
A627	1'-3"	143° 15'
A628	1'-2"	147° 50'
A629	1'-3"	143° 15'
A630	1'-2"	147° 50'

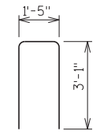


A710 A711 A512 A413

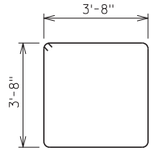


MARK	DIM "C"
A515	3'-7"
A516	3'-8"
A517	3'-10"
A518	4'-1"
A519	4'-5"
A520	3'-9"
A521	4'-0"
A522	4'-3"

A515, A516, A517, A518, A519, A520, A521, A522



A432



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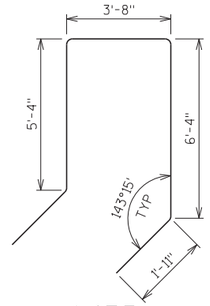

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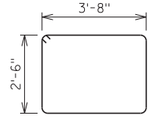

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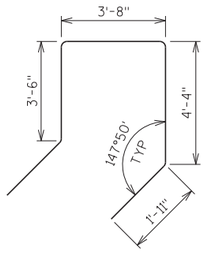

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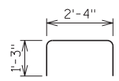

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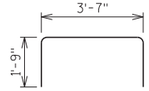

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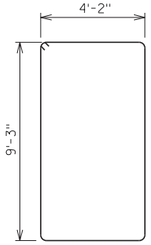

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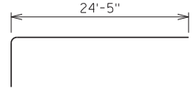

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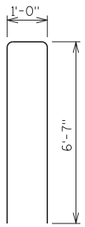

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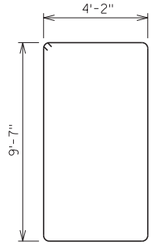

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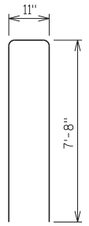


A561

BILL OF BARS
WEST ABUTMENT

COATED= 6090 LBS.
UNCOATED= 18530 LBS.

MARK	NUMBER COATED	NUMBER UNCOATED	LENGTH FT - IN	BENT	BAR SERIES	LOCATION	
A 6 01		102	9 - 8			FOOTING	HORIZ
A 5 02		66	9 - 3	X		FOOTING AT HEEL	VERT
A 6 03		10	5 - 8	X		FOOTING TO WING DOWEL	VERT
A 8 04		16	44 - 0			FOOTING AT HEEL	HORIZ
⚠ A 8 05		8	13 - 5	X	X	FOOTING AT HEEL - SOUTH END	HORIZ
⚠ A 8 06		8	10 - 4	X	X	FOOTING AT HEEL - NORTH END	HORIZ
A 5 07		10	42 - 10			FOOTING BOTTOM	HORIZ
⚠ A 5 08		5	8 - 11	X	X	FOOTING BOTTOM - SOUTH END	HORIZ
⚠ A 5 09		5	9 - 4	X	X	FOOTING BOTTOM - NORTH END	HORIZ
A 7 10		82	8 - 5	X		FOOTING TO BODY DOWEL - BF	VERT
A 7 11		88	11 - 2	X		FOOTING TO BODY DOWEL - BF	VERT
A 5 12		88	4 - 6	X		FOOTING TO BODY DOWEL - FF	VERT
A 4 13		22	4 - 11	X		FOOTING TO BODY DOWEL AT PILASTERS	VERT
A 7 14		88	9 - 6			ABUTMENT BODY - BF	VERT
A 5 15		76	13 - 6	X		ABUTMENT BODY - FF	VERT
A 5 16		2	13 - 7	X		ABUTMENT BODY - FF AT ENDS	HORIZ
A 5 17		1	13 - 9	X		ABUTMENT BODY - FF AT SOUTH END	HORIZ
A 5 18		1	14 - 0	X		ABUTMENT BODY - FF AT SOUTH END	HORIZ
A 5 19		3	14 - 4	X		ABUTMENT BODY - FF AT SOUTH END	HORIZ
A 5 20		1	13 - 8	X		ABUTMENT BODY - FF AT NORTH END	HORIZ
A 5 21		1	13 - 11	X		ABUTMENT BODY - FF AT NORTH END	HORIZ
A 5 22		3	14 - 2	X		ABUTMENT BODY - FF AT NORTH END	HORIZ
A 10 23		10	46 - 0	X		ABUTMENT BODY - BF AT SOUTH END	HORIZ
A 10 24		10	45 - 11	X		ABUTMENT BODY - BF AT NORTH END	HORIZ
A 5 25		10	44 - 6	X		ABUTMENT BODY - FF AT SOUTH END	HORIZ
A 5 26		10	41 - 6	X		ABUTMENT BODY - FF AT NORTH END	HORIZ
A 6 27		1	44 - 5	X		ABUTMENT BODY - FF AT SOUTH END	HORIZ
A 6 28		1	41 - 10	X		ABUTMENT BODY - FF AT NORTH END	HORIZ
A 6 29		1	45 - 6	X		ABUTMENT BODY - TOP AT SOUTH END	HORIZ
A 6 30		1	41 - 1	X		ABUTMENT BODY - TOP AT NORTH END	HORIZ
A 4 31		2	9 - 11			ABUTMENT BODY AT BUMP OUT	VERT
A 4 32		10	7 - 5	X		ABUTMENT BODY STIRRUP AT BUMP OUT	HORIZ
A 4 33		12	9 - 6			ABUTMENT BODY AT SOUTH PILASTER	VERT
A 4 34		11	15 - 2	X		ABUTMENT BODY AT SOUTH PILASTER	HORIZ
A 4 35		11	19 - 2	X		ABUTMENT BODY AT SOUTH PILASTER	HORIZ
A 4 36		10	9 - 10			ABUTMENT BODY AT NORTH PILASTER	VERT
A 4 37		11	12 - 10	X		ABUTMENT BODY AT NORTH PILASTER	HORIZ
A 4 38		11	15 - 4	X		ABUTMENT BODY AT NORTH PILASTER	HORIZ
A 4 39		40	4 - 2	X		ABUTMENT BODY - TOP	VERT
A 4 40		16	7 - 4			ABUTMENT BODY - TOP	HORIZ
A 5 41		62	6 - 10	X		ABUTMENT BODY - TOP	VERT
A 4 42		6	31 - 8			ABUTMENT BODY - TOP	HORIZ
A 5 43	32		27 - 5	X		WING 1 - BODY STIRRUPS	VERT
A 5 44	13		23 - 6			WING 1 - BODY FF	HORIZ
A 8 45	13		26 - 6			WING 1 - BODY BF	HORIZ
A 9 46	4		25 - 7	X		WING 1 - BODY AT TOP	HORIZ
A 5 47	31		13 - 11	X		WING 1 - TOP STIRRUPS	VERT
A 4 48	9		9 - 9			WINGS 1 & 2 - TOP FF	HORIZ
A 5 49	16		10 - 1			WINGS 1 & 2 - TOP BF	HORIZ
A 4 50	4		29 - 1			WINGS 1 - TOP FF	HORIZ
A 5 51	7		29 - 1			WINGS 1 - TOP BF	HORIZ
A 6 52	2		29 - 1			WINGS 1 - TOP	HORIZ
A 5 53	23		28 - 1	X		WING 2 - BODY STIRRUPS	VERT
A 5 54	13		18 - 1			WING 2 - BODY FF	HORIZ
A 8 55	13		18 - 4			WING 2 - BODY BF	HORIZ
A 9 56	4		20 - 11			WING 2 - BODY AT TOP	HORIZ
A 5 57	17		12 - 4	X		WING 2 - TOP STIRRUPS	VERT
A 4 58	4		24 - 7			WINGS 2 - TOP FF	HORIZ
A 5 59	7		24 - 7			WINGS 2 - TOP BF	HORIZ
A 6 60	2		24 - 7			WINGS 2 - TOP	HORIZ
A 5 61	9		16 - 0	X		WING 2 - TOP STIRRUPS AT ENDS	VERT

BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

ALL REINFORCING BARS ARE ENGLISH.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

⚠ AVERAGE LENGTH OF BAR SERIES USED FOR DETERMINING BAR WEIGHT ONLY. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES ⚠

MARK	NO. REQUIRED	LENGTH
A805	2 SERIES OF 4	12'-11" TO 13'-10"
A806	2 SERIES OF 4	9'-11" TO 10'-9"
A508	1 SERIES OF 5	8'-0" TO 9'-10"
A509	1 SERIES OF 5	8'-7" TO 10'-1"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

WEST ABUTMENT DETAILS

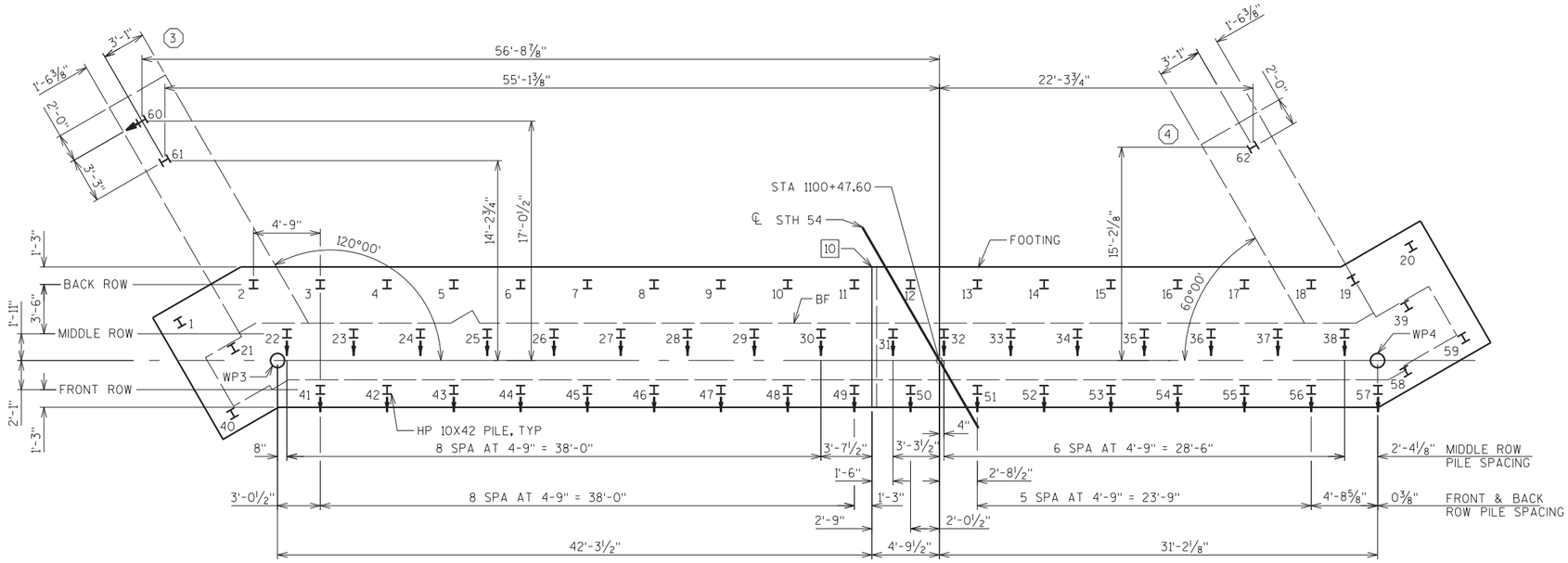
SHEET 10 OF 39
334

8

8

STATE PROJECT NUMBER

9210-11-71



PILE PLAN

NOTES

FOR PILE SPLICE DETAILS SEE SHEET 2

FILL / EXCAVATE TO BOTTOM OF ABUTMENT FOOTING EL 666.56 BEFORE DRIVING PILING.

EAST ABUTMENT TO BE SUPPORTED ON HP 10X42 STEEL PILING WITH A REQUIRED DRIVING RESISTANCE OF 150 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC EQUATION. ESTIMATED 25' LONG.

SEE SHEET 12 FOR SECTION THRU ABUTMENT BODY AND, FOOTING STEEL.

SEE SHEET 13 FOR ABUTMENT BODY STEEL.

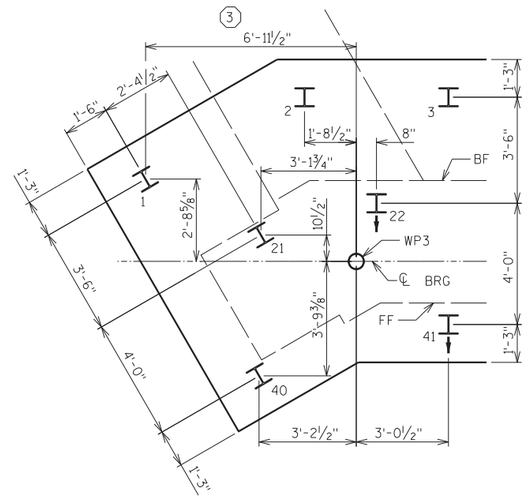
SEE SHEET 14 FOR CONDUIT AND JUNCTION BOX PLACEMENT DETAILS.

[3] PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN TO SUITABLE DRAINAGE.

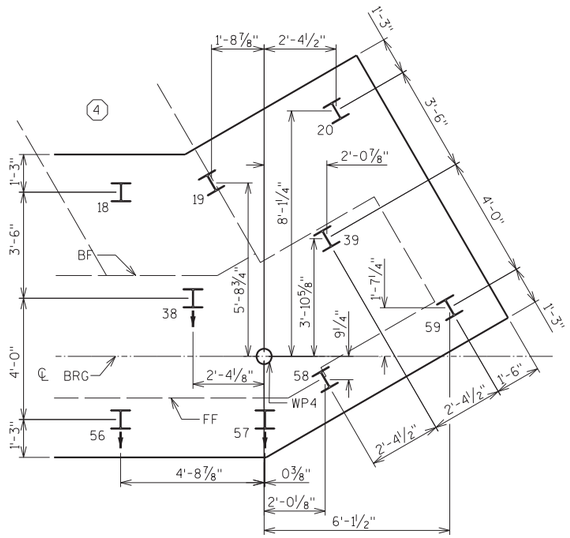
INDICATES BATTERED PILE (1:4) IN DIRECTION SHOWN.

(#) INDICATES WING NUMBER

FF - FRONT FACE
BF - BACK FACE
EF - EACH FACE
WP - WORKING POINT



PILES SPACING AT NORTH END



PILES SPACING AT SOUTH END

TYPICAL SECTION

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

EAST ABUTMENT
PILE LAYOUT

SHEET 11 OF 39
335

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8

STATE PROJECT NUMBER

9210-11-71

NOTES

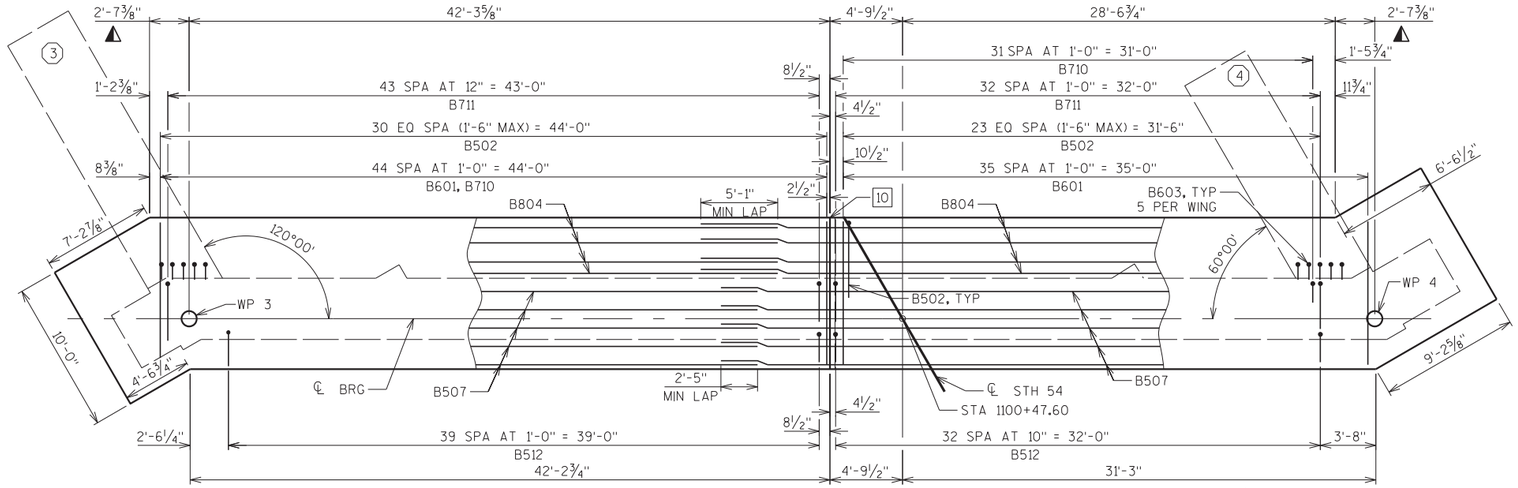
1. 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE. EXTEND FROM BEAM SEAT TO TOP OF WING.
3. PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN TO SUITABLE DRAINAGE.
5. 4" X ¾" FILLER LENGTH OF ABUTMENT.
9. STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING PADS AND/OR SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAT 0.03".
11. KEYED CONSTRUCTION JOINT FORMED BY A BEVELED 2" X 6".
12. "CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH".
13. "CONDUIT METALLIC 1-INCH".

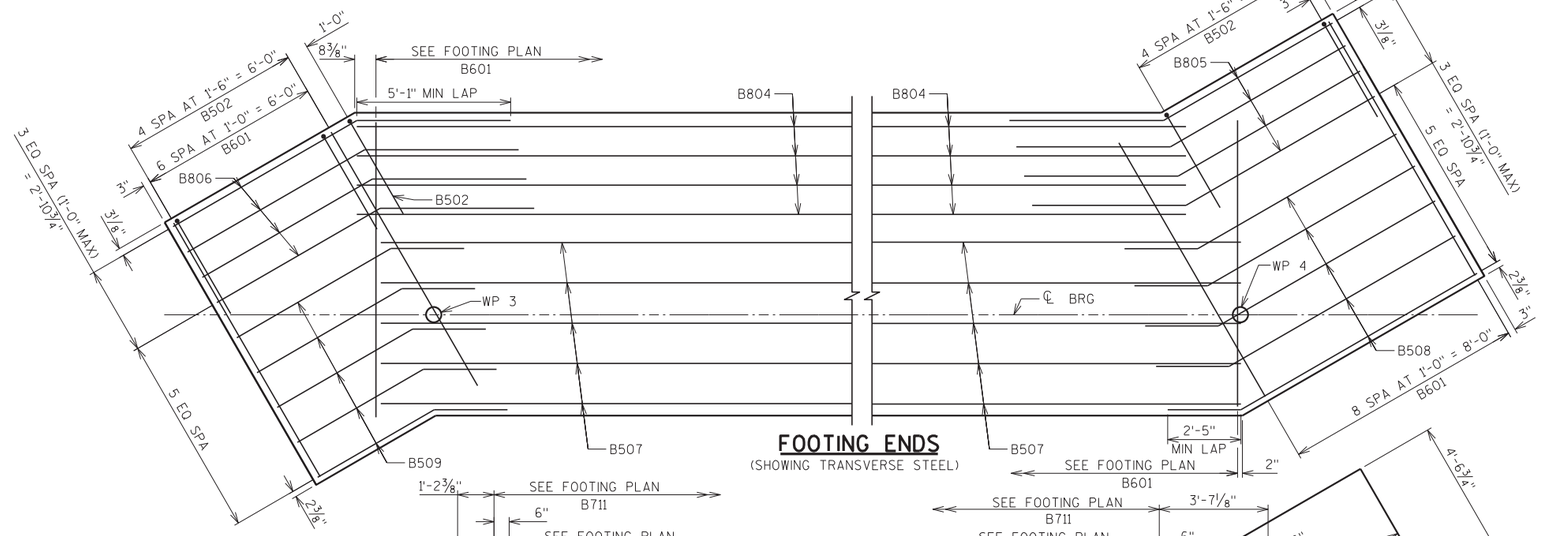
ARCHITECTURAL SURFACE TREATMENT, 1½" MAX RELIEF. SEE SHEET 35 FOR DETAILS. NOT SHOWN FOR CLARITY.

DIMENSION FROM CORNER POINTS TO WORKING POINTS.

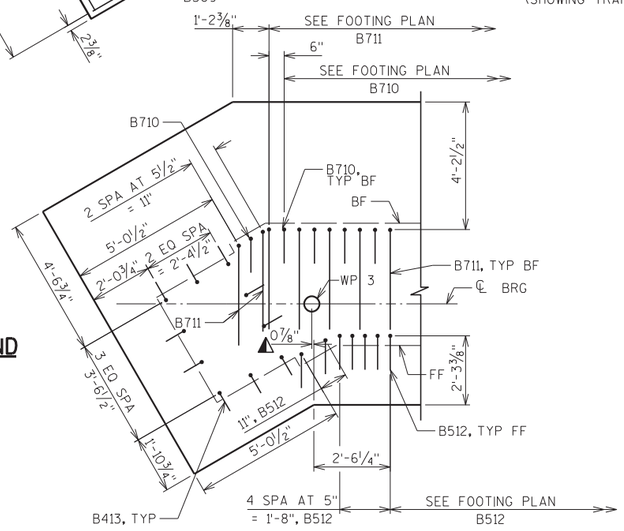
(#) INDICATES WING NUMBER

FF - FRONT FACE
BF - BACK FACE
EF - EACH FACE
WP - WORKING POINT

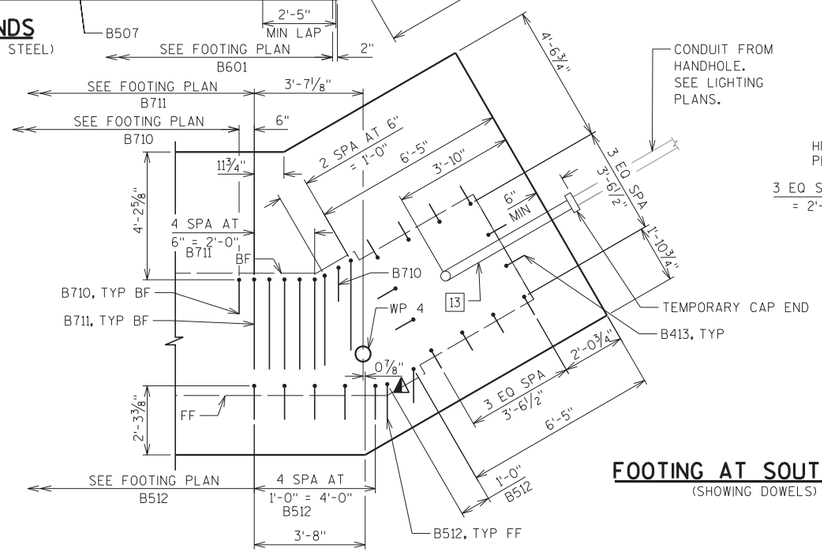




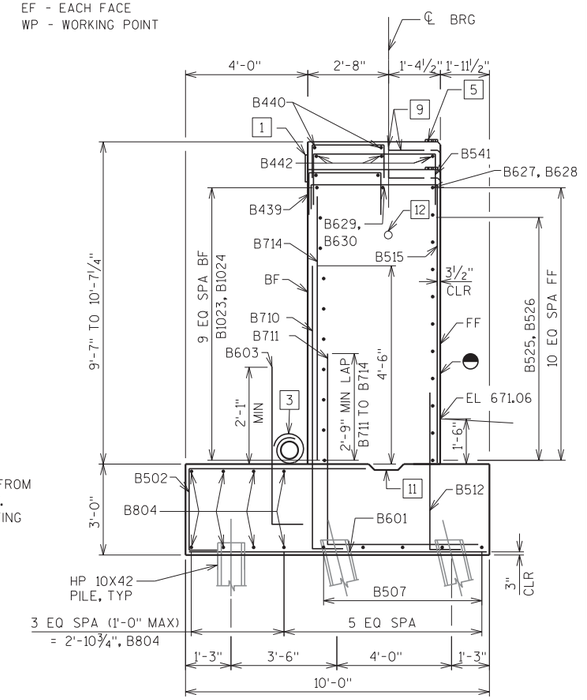
FOOTING ENDS
(SHOWING TRANSVERSE STEEL)



FOOTING AT NORTH END
(SHOWING DOWELS)



FOOTING AT SOUTH END
(SHOWING DOWELS)



TYPICAL SECTION

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

EAST ABUTMENT FOOTING

SHEET 12 OF 39
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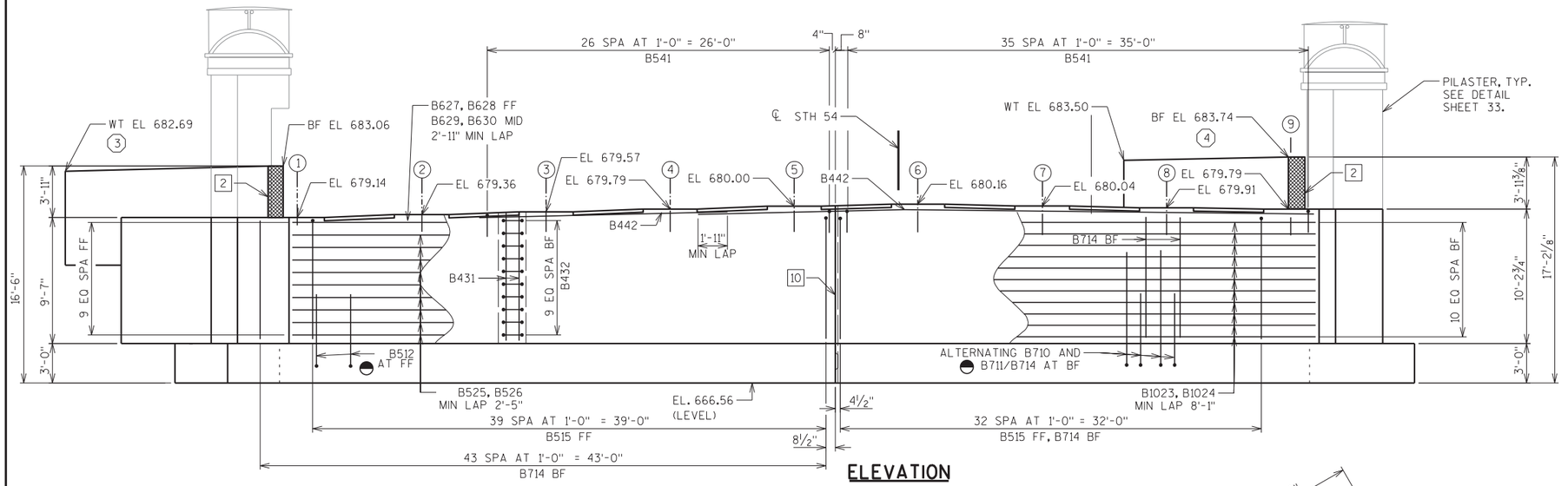
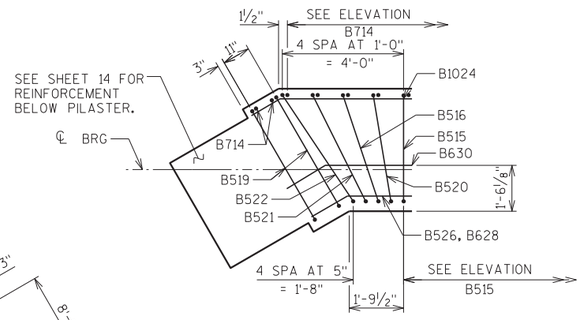
STATE PROJECT NUMBER

9210-11-71

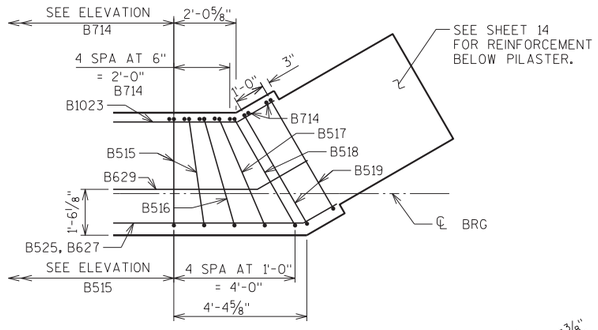


ELEVATION

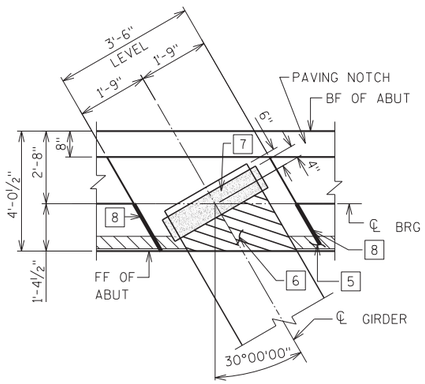
EAST ABUTMENT LOOKING EAST
(PILES NOT SHOWN)



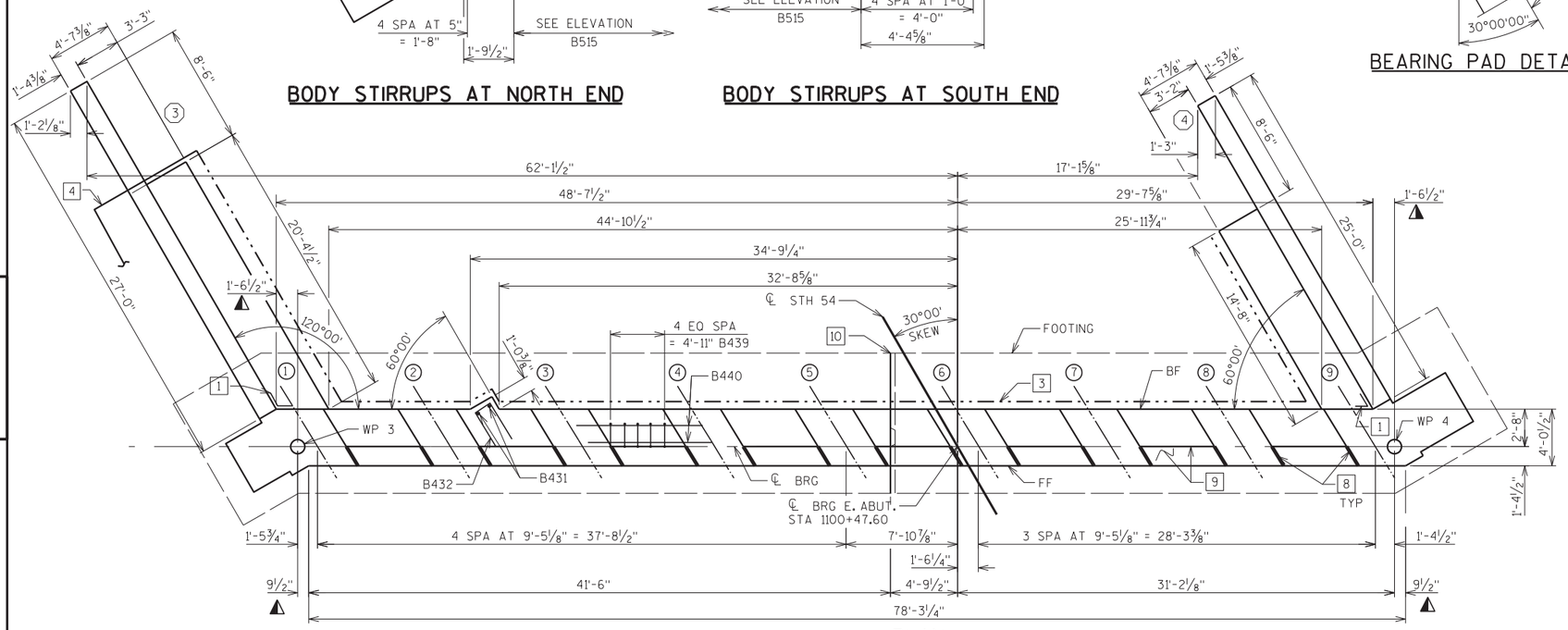
BODY STIRRUPS AT NORTH END



BODY STIRRUPS AT SOUTH END



BEARING PAD DETAIL



PLAN

NOTES:

DO NOT PLACE FILL ABOVE ELEVATION 671.06 AT EAST ABUTMENT BEFORE SUPERSTRUCTURE IS IN PLACE.

1. 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE. EXTEND FROM BEAM SEAT TO TOP OF WING.
2. ½" FILLER - EXTENDED FROM BEAM SEAT TO TOP OF PARAPET, INCLUDED IN WING LENGTH. SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
3. PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN TO SUITABLE DRAINAGE.
4. PIPE UNDERDRAIN UNPERFORATED 6-INCH (SLOPE TO DRAIN). ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SDD REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN. SEE DRAINAGE DETAILS ON SHEET 14 FOR MORE DETAILS.
5. 4" x ¾" FILLER LENGTH OF ABUTMENT.
6. ¾" PREFORMED FILLER UNDER GIRDERS.
7. NON-LAMINATED ELASTOMERIC BEARING PAD ½" X 8" X 2'-10"
8. ¾" CORK FILLER ON VERTICAL BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER
9. STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING PADS AND/OR SUPERSTRUCTURE. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".
10. CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 8". VERTICAL KEYWAY IN ABUTMENT BODY AND HORIZONTAL KEYWAY IN FOOTING.

◒ SEE FOOTING SHEET 12

◭ DIMENSION FROM CORNER POINTS TO WORKING POINTS

(#) INDICATES WING NUMBER

(#) INDICATES GIRDER NUMBER

FF - FRONT FACE
BF - BACK FACE
WT - WING TIP
WP - WORKING POINT

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

EAST ABUTMENT

SHEET 13 OF 39
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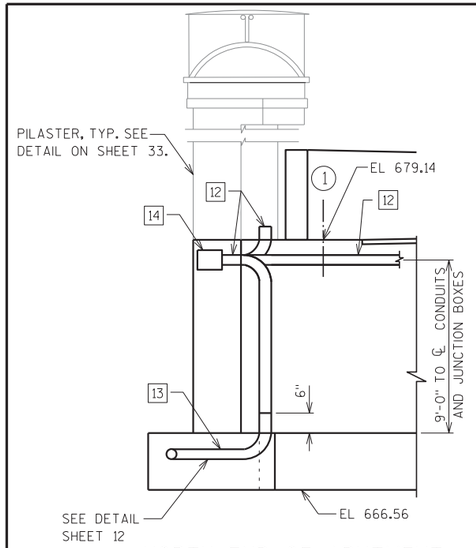
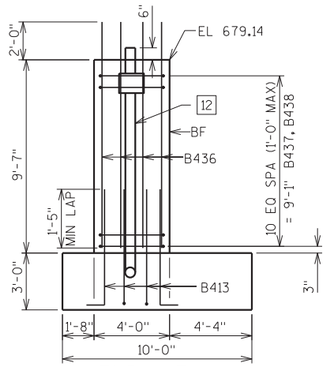
STATE PROJECT NUMBER

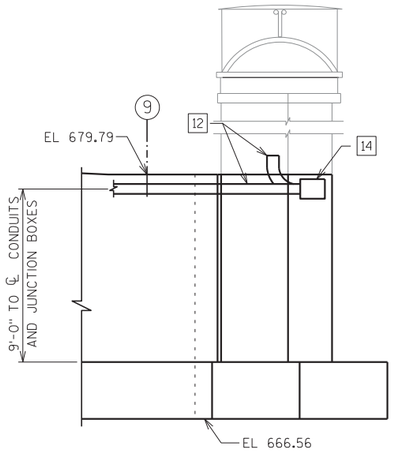
9210-11-71



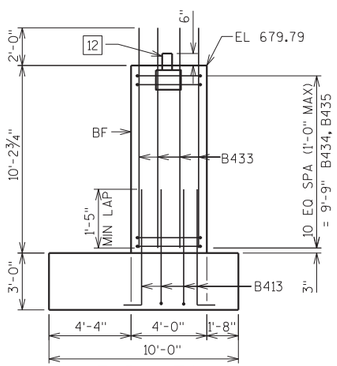
NORTH END OF ABUTMENT



END VIEW
(PILASTER NOT SHOWN)



SOUTH END OF ABUTMENT



END VIEW
(PILASTER NOT SHOWN)

NOTES:

STONE VENEER 4-INCH NOT SHOWN FOR CLARITY. SEE SHEET 36 FOR DETAILS.

EXPANSION ANGLES AND ADAPTER FITTINGS TO BE INCIDENTAL TO "CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH".

WHEN CONNECTING NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS U.L. LISTED FOR ELECTRICAL USE SHALL BE USED.

3 USE MINIMUM BENDING RADIUS PER WISCONSIN ELECTRICAL CODE. PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN TO SUITABLE DRAINAGE.

4 PIPE UNDERDRAIN UNPERFORATED 6-INCH SLOPE TO DRAIN). ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SDD REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN.

12 "CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH".

13 "CONDUIT RIGID METALLIC 1-INCH".

14 "4" JUNCTION BOX 6" DEPTH CONCRETE EMBEDDABLE"

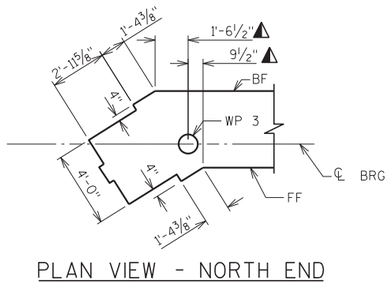
15 CONCRETE BUMP OUT TO BE SIZED TO BOTH MATCH MINIMUM BASE DIMENSIONS OF LIGHT AND REQUIRED CONCRETE COVER TO JUNCTION BOX.

◐ THESE DIMENSIONS TO BE VERIFIED WITH LIGHT MANUFACTURER.

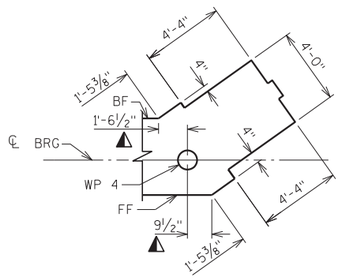
◭ DIMENSIONS FROM CORNER POINTS TO WORKING POINTS.

(#) INDICATES GIRDER NUMBER

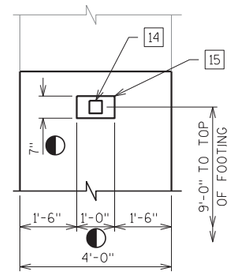
FF - FRONT FACE
BF - BACK FACE
WP - WORKING POINT



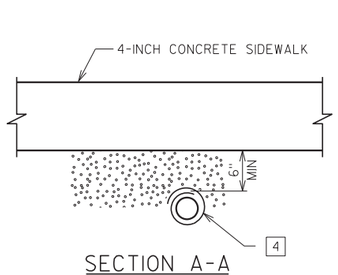
PLAN VIEW - NORTH END
(SHOWING DIMENSIONS)



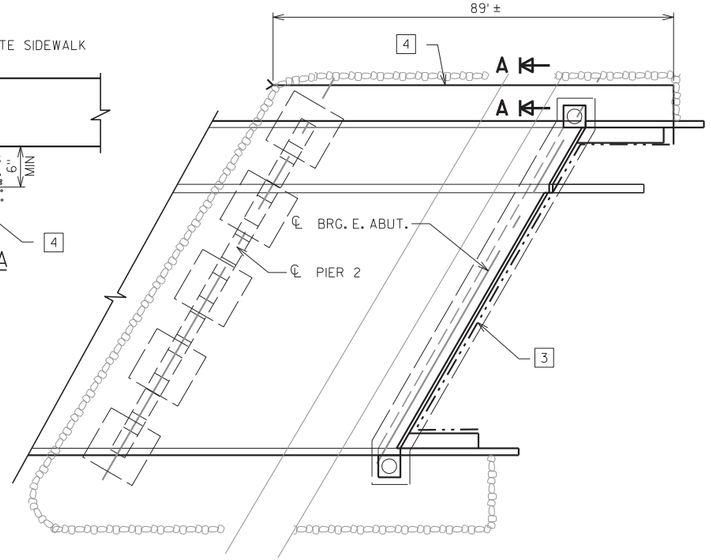
PLAN VIEW - SOUTH END
(SHOWING DIMENSIONS)



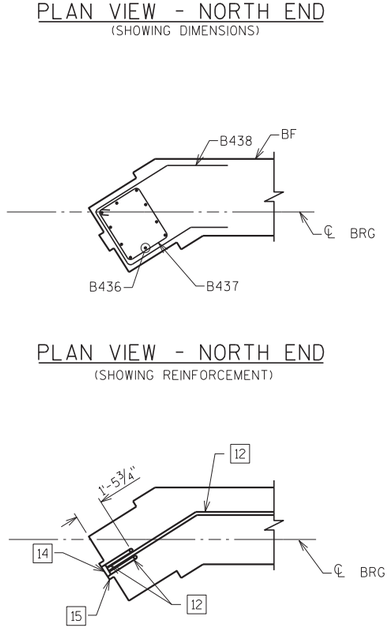
ELEVATION VIEW OF BUMP OUT



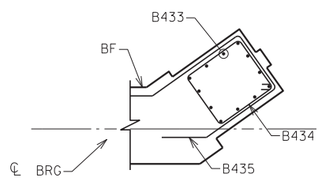
SECTION A-A



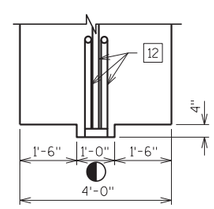
DRAINAGE DETAIL



PLAN VIEW - NORTH END
(SHOWING REINFORCEMENT)

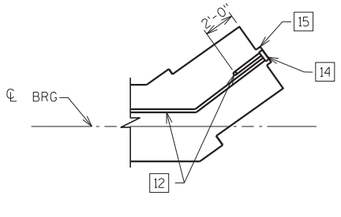


PLAN VIEW - SOUTH END
(SHOWING REINFORCEMENT)

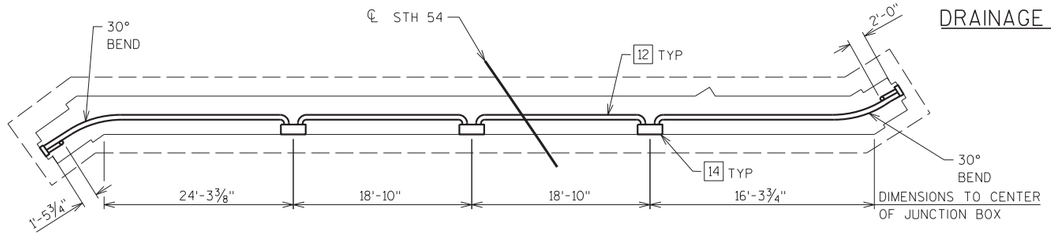


PLAN VIEW OF BUMP OUT

PLAN VIEW - NORTH END
(SHOWING CONDUIT)



PLAN VIEW - SOUTH END
(SHOWING CONDUIT)



PLAN VIEW - CONDUIT & JUNCTION BOX LAYOUT

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

EAST ABUTMENT DETAILS

SHEET 14 OF 39
338

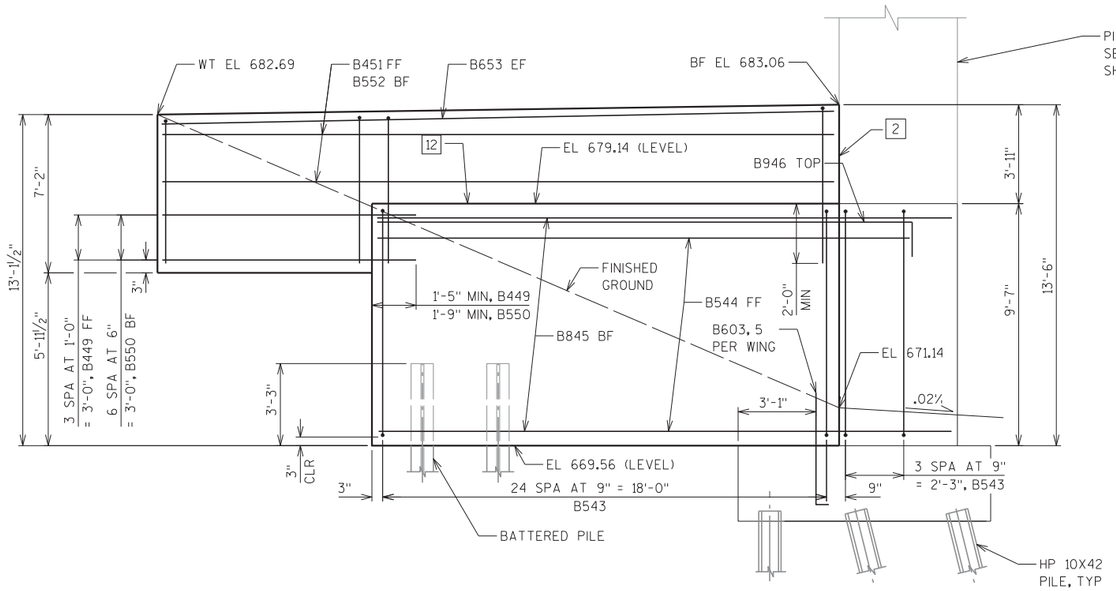
8

8

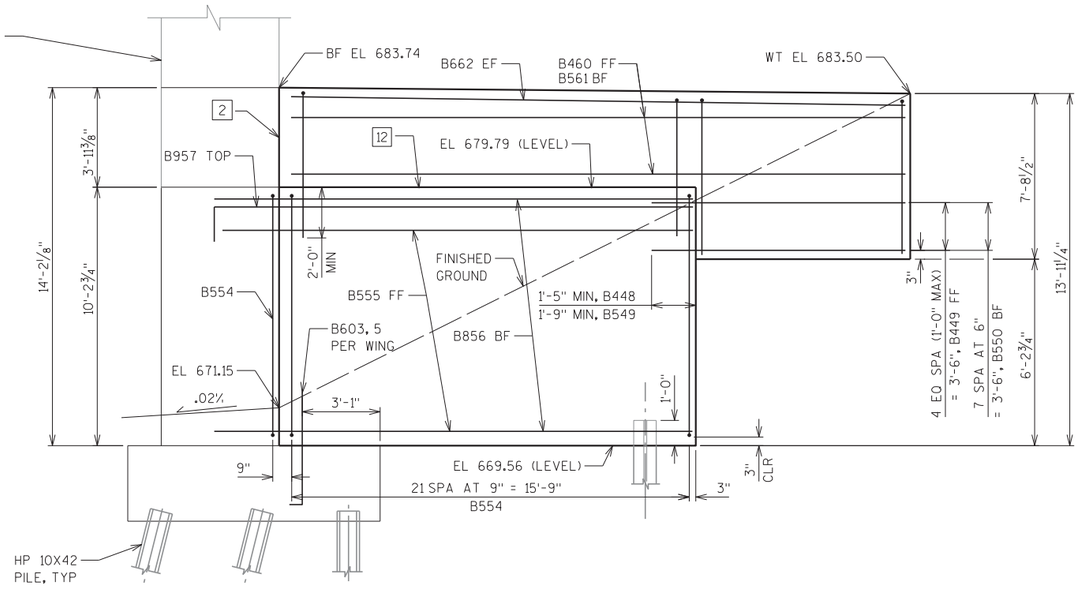
FILE NAME : ±±msn-fp01±Entp±23046-70±08037±TECH±CADD±dwg±080114_ea.dgn PLOT DATE : 11/1/2011 PLOT BY : 1258MJB PLOT SCALE : 8.00 '/ in.

STATE PROJECT NUMBER

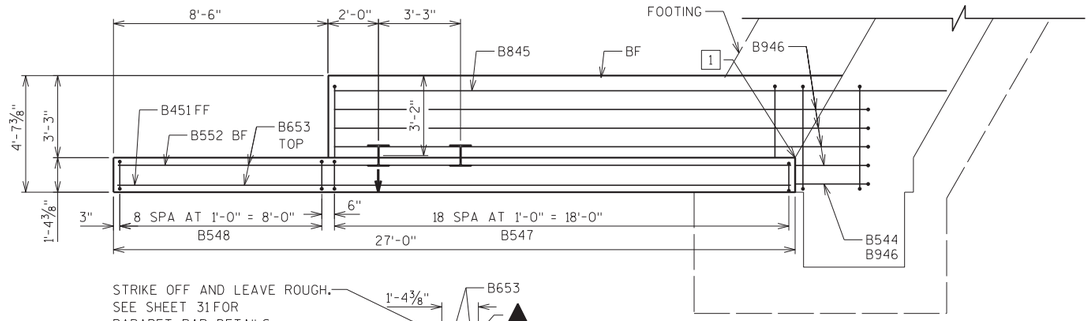
9210-11-71



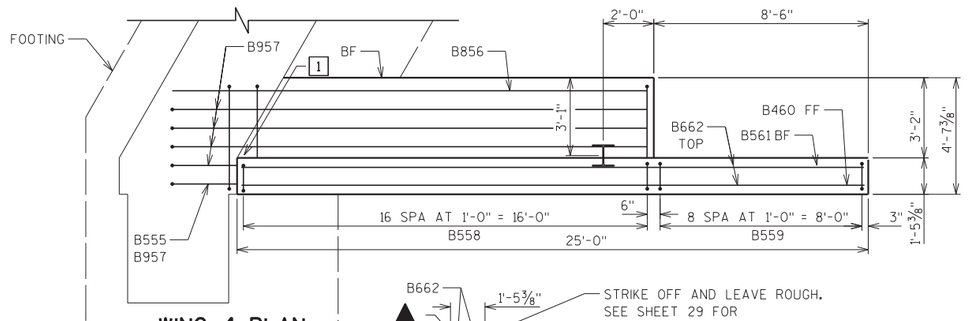
WING 3



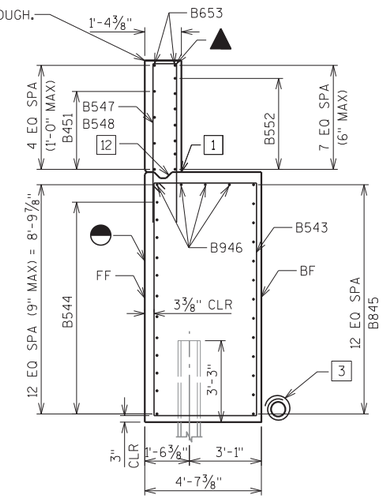
WING 4



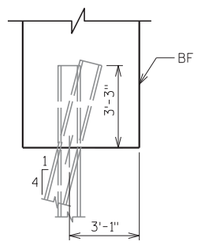
WING 3 PLAN



WING 4 PLAN

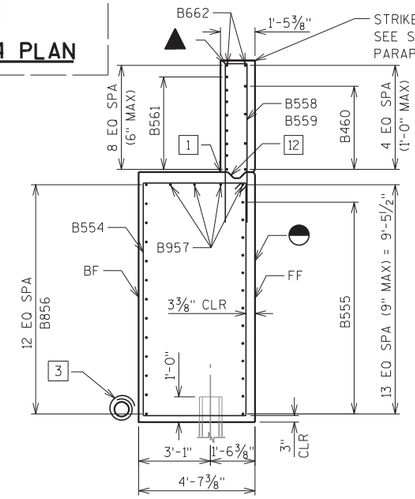


SECTION THRU WING 3



BATTERED PILE DETAIL

(WING 3)



SECTION THRU WING 4

NOTES:

1. 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE. EXTEND FROM BEAM SEAT TO TOP OF WING.
2. ½" FILLER - EXTENDED FROM BEAM SEAT TO TOP OF PARAPET, INCLUDED IN WING LENGTH. SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
3. PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN TO SUITABLE DRAINAGE.
12. OPTIONAL KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2" X 6". USE ¾" V-GROOVE ON FF OF WING WALL AND WATERPROOFING ON BF IF OPTIONAL CONSTRUCTION JOINT IS USED.

ARCHITECTURAL SURFACE TREATMENT, ¾" CAP AND ⅝" MAX RELIEF. SEE SHEET 36 FOR DETAILS. NOT SHOWN FOR CLARITY.

▲ ELEVATIONS AND DIMENSIONS GIVEN TO THIS POINT.

INDICATES BATTERED PILE (1:4) IN DIRECTION SHOWN.

FF - FRONT FACE
BF - BACK FACE
EF - EACH FACE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

EAST ABUTMENT WINGS 3 & 4

SHEET 15 OF 39
339

8

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STATE PROJECT NUMBER

9210-11-71

BILL OF BARS
EAST ABUTMENT

COATED= 5700 LBS.
UNCOATED= 17930 LBS.

MARK	NUMBER COATED	NUMBER UNCOATED	LENGTH FT - IN	BENT	BAR SERIES	LOCATION	
B 6 01		97	9 - 8			FOOTING	HORIZ
B 5 02		66	9 - 3	X		FOOTING AT HEEL	VERT
B 6 03		10	5 - 8	X		FOOTING TO WING DOWEL	VERT
B 8 04		16	42 - 2			FOOTING AT HEEL	HORIZ
⚠ B 8 05		8	11 - 11	X	X	FOOTING AT HEEL - SOUTH END	HORIZ
⚠ B 8 06		8	11 - 8	X	X	FOOTING AT HEEL - SOUTH END	HORIZ
B 5 07		10	41 - 3			FOOTING BOTTOM	HORIZ
⚠ B 5 08		5	10 - 9	X	X	FOOTING BOTTOM - SOUTH END	HORIZ
⚠ B 5 09		5	7 - 7	X	X	FOOTING BOTTOM - NORTH END	HORIZ
B 7 10		79	8 - 5	X		FOOTING TO BODY DOWEL - BF	VERT
B 7 11		85	11 - 2	X		FOOTING TO BODY DOWEL - BF	VERT
B 5 12		85	4 - 6	X		FOOTING TO BODY DOWEL - FF	VERT
B 4 13		22	4 - 11	X		FOOTING TO BODY DOWEL AT PILASTERS	VERT
B 7 14		85	9 - 3			ABUTMENT BODY - BF	VERT
B 5 15		74	13 - 3	X		ABUTMENT BODY - FF	VERT
B 5 16		2	13 - 5	X		ABUTMENT BODY - FF AT ENDS	VERT
B 5 17		1	13 - 7	X		ABUTMENT BODY - FF AT SOUTH END	VERT
B 5 18		1	13 - 9	X		ABUTMENT BODY - FF AT SOUTH END	VERT
B 5 19		4	13 - 11	X		ABUTMENT BODY - FF AT ENDS	VERT
B 5 20		1	13 - 4	X		ABUTMENT BODY - FF AT NORTH END	VERT
B 5 21		1	13 - 8	X		ABUTMENT BODY - FF AT NORTH END	VERT
B 5 22		1	14 - 0	X		ABUTMENT BODY - FF AT NORTH END	VERT
B 10 23		10	43 - 10	X		ABUTMENT BODY - BF AT SOUTH END	HORIZ
B 10 24		10	44 - 8	X		ABUTMENT BODY - BF AT NORTH END	HORIZ
B 5 25		10	40 - 7	X		ABUTMENT BODY - FF AT SOUTH END	HORIZ
B 5 26		10	42 - 6	X		ABUTMENT BODY - FF AT NORTH END	HORIZ
B 6 27		1	41 - 3	X		ABUTMENT BODY - FF AT SOUTH END	HORIZ
B 6 28		1	42 - 6	X		ABUTMENT BODY - FF AT NORTH END	HORIZ
B 6 29		1	40 - 9	X		ABUTMENT BODY - TOP AT SOUTH END	HORIZ
B 6 30		1	43 - 7	X		ABUTMENT BODY - TOP AT NORTH END	HORIZ
B 4 31		2	9 - 10			ABUTMENT BODY AT BUMP OUT	VERT
B 4 32		10	7 - 5	X		ABUTMENT BODY STIRRUP AT BUMP OUT	HORIZ
B 4 33		12	12 - 1			ABUTMENT BODY AT SOUTH PILASTER	VERT
B 4 34		11	15 - 2	X		ABUTMENT BODY AT SOUTH PILASTER	HORIZ
B 4 35		11	19 - 2	X		ABUTMENT BODY AT SOUTH PILASTER	HORIZ
B 4 36		10	11 - 5			ABUTMENT BODY AT NORTH PILASTER	VERT
B 4 37		11	12 - 10	X		ABUTMENT BODY AT NORTH PILASTER	HORIZ
B 4 38		11	15 - 4	X		ABUTMENT BODY AT NORTH PILASTER	HORIZ
B 4 39		40	4 - 8	X		ABUTMENT BODY - TOP	VERT
B 4 40		16	7 - 4			ABUTMENT BODY - TOP	HORIZ
B 5 41		63	6 - 10	X		ABUTMENT BODY - TOP	VERT
B 4 42		6	31 - 10			ABUTMENT BODY - TOP	HORIZ
B 5 43	29		26 - 11	X		WING 3 - BODY STIRRUPS	VERT
B 5 44	12		21 - 3			WING 3 - BODY FF	HORIZ
B 8 45	13		23 - 7			WING 3 - BODY BF	HORIZ
B 9 46	4		23 - 2	X		WING 3 - BODY AT TOP	HORIZ
B 5 47	19		12 - 4	X		WING 3 - TOP STIRRUPS	VERT
B 5 48	9		14 - 4	X		WING 3 - TOP STIRRUPS	VERT
B 4 49	9		9 - 9			WINGS 3 & 4 - TOP FF	HORIZ
B 5 50	15		10 - 1			WINGS 3 & 4 - TOP BF	HORIZ
B 4 51	4		26 - 7			WING 3 - TOP FF	HORIZ
B 5 52	7		26 - 7			WING 3 - TOP BF	HORIZ
B 6 53	2		26 - 7			WING 3 - TOP	HORIZ
B 5 54	23		28 - 1	X		WING 4 - BODY STIRRUPS	VERT
B 5 55	13		18 - 1			WING 4 - BODY FF	HORIZ
B 8 56	13		18 - 6			WING 4 - BODY BF	HORIZ
B 9 57	4		20 - 0	X		WING 4 - BODY AT TOP	HORIZ
B 5 58	17		12 - 5	X		WING 4 - TOP STIRRUPS	VERT
B 5 59	9		15 - 5	X		WING 4 - TOP STIRRUPS	VERT
B 4 60	4		24 - 7			WING 4 - TOP FF	HORIZ
B 5 61	8		24 - 7			WING 4 - TOP BF	HORIZ
B 6 62	2		24 - 7			WING 4 - TOP	HORIZ

BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

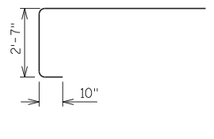
ALL REINFORCING BARS ARE ENGLISH.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

⚠ AVERAGE LENGTH OF BAR SERIES USED FOR DETERMINING BAR WEIGHT ONLY. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES ⚠

MARK	NO. REQUIRED	LENGTH
A805	2 SERIES OF 4	11'-0" TO 12'-3"
A806	2 SERIES OF 4	11'-3" TO 12'-1"
B508	1 SERIES OF 5	10'-0" TO 11'-5"
B509	1 SERIES OF 5	6'-10" TO 8'-3"



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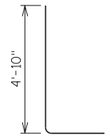

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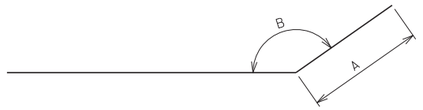
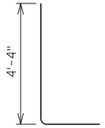


B805, B806, B508, B509, B1023, B1024, B525, B526, B627, B628, B629, B630

B710

B711

B512



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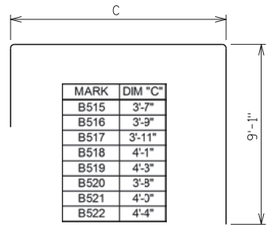
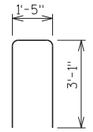


MARK	DIM "C"
B515	3'-7"
B516	3'-9"
B517	3'-11"
B518	4'-1"
B519	4'-3"
B520	3'-9"
B521	4'-0"
B522	4'-4"

B515, B516, B517, B518, B519, B520, B521, B522

MARK	DIM "A"	ANGLE "B"
B805	5'-1"	150°00'
B806	5'-1"	150°00'
B508	2'-5"	150°00'
B509	2'-5"	150°00'
B1023	1'-3"	150°00'
B1024	1'-2"	150°00'
B525	1'-3"	150°00'
B526	1'-2"	150°00'
B627	1'-3"	150°00'
B628	1'-2"	150°00'
B629	1'-3"	150°00'
B630	1'-2"	150°00'



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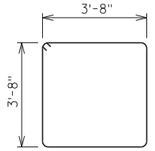

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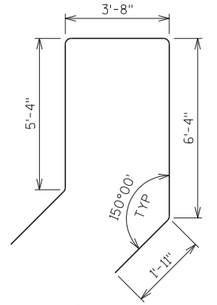

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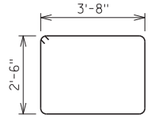

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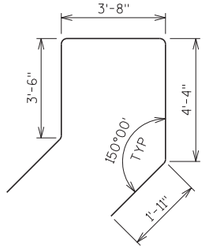

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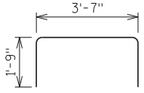

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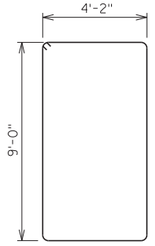

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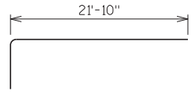
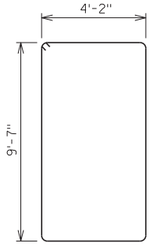


B946

B547

B548



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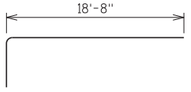

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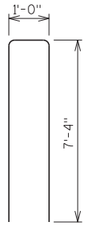

B559

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EAST ABUTMENT DETAILS

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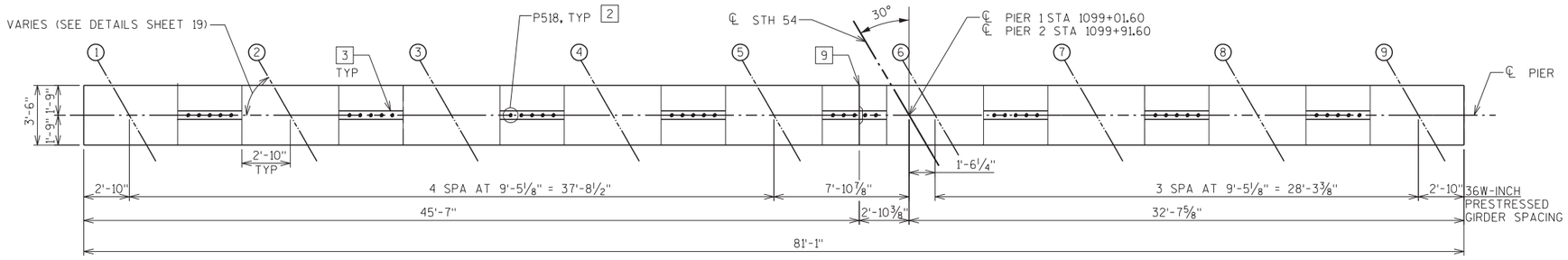
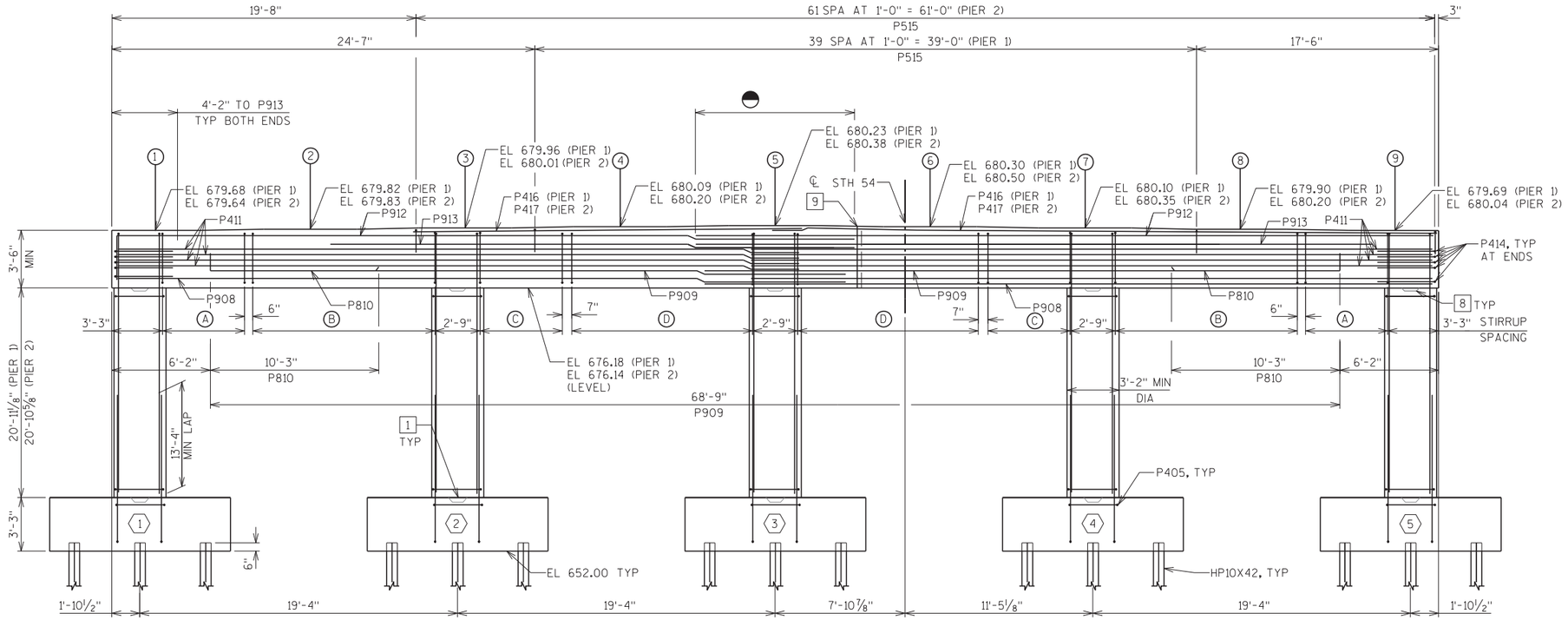
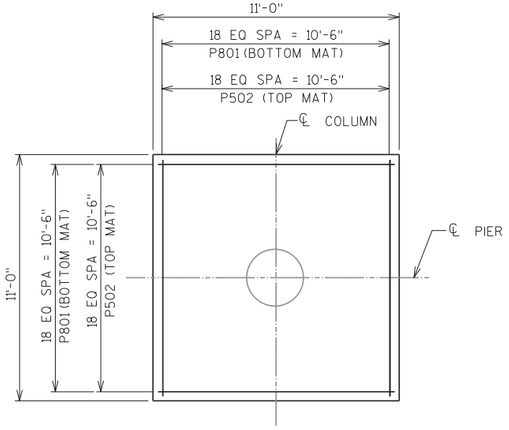


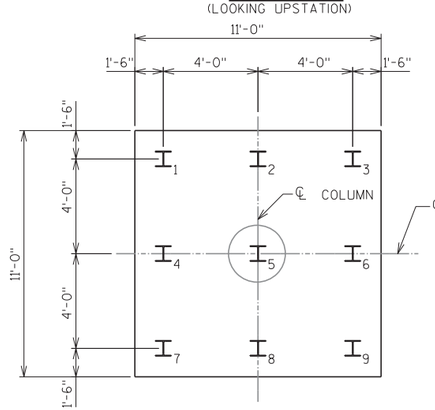
PLAN



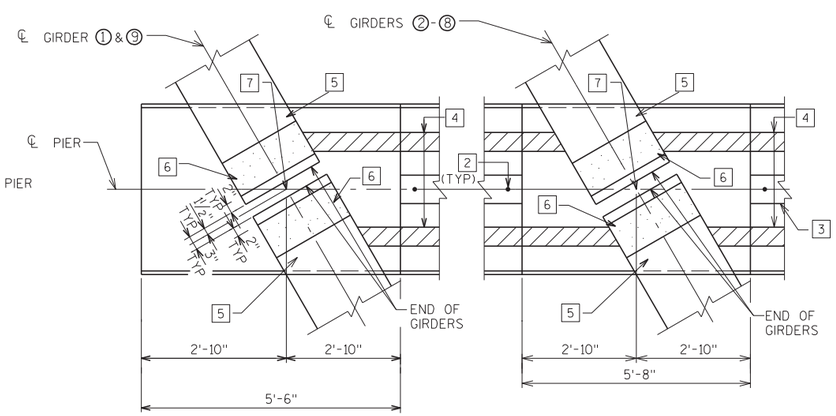
ELEVATION
(LOOKING UPSTATION)



FOOTING PLAN
(SHOWING REINFORCEMENT)



FOOTING PLAN
(SHOWING PILING)



BEARING PAD DETAILS

NOTES

PIER TO BE SUPPORTED ON HP 10×42 STEEL PILING WITH A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC EQUATION. ESTIMATED 15' LONG. PREBORING REQUIRED AT PIERS.

AESTHETICS NOT SHOWN FOR CLARITY. SEE SHEET 38 FOR DETAILS.

1. KEYED CONSTRUCTION JOINT SHALL BE FORMED BY A BEVELED KEYWAY 2" DEEP X 1'-3" X 1'-3". EXPOSED EDGES OF CONSTRUCTION JOINT SHALL BE FLUSH AND NOT BEVELED IN COLUMNS.
2. P518 BARS AT 1'-0" MAX CENTERS, MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. EMBED 1'-0" INTO CONCRETE.
3. KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2" X 6" KEYWAY BETWEEN BEAM SEATS.
4. 4" X ¾" FILLER, UNDER PIER DIAPHRAGM.
5. ¾" PREFORMED FILLER UNDER GIRDERS.
6. NON-LAMINATED ELASTOMERIC BEARING PAD ½" X 8" X 2'-6".
7. BEARING SEAT ELEVATION GIVEN AT THIS POINT.
8. KEYED CONSTRUCTION JOINT SHALL BE FORMED BY A BEVELED KEYWAY 2" DEEP X 1'-3" X 1'-3". EXPOSED EDGES OF CONSTRUCTION JOINT SHALL HAVE A 1" BEVEL IN THE COLUMNS.
9. VERTICAL CONSTRUCTION JOINT KEYWAY FORMED BY BEVELED 2" X 12".

(#) INDICATES GIRDER NUMBER

⬡ INDICATES COLUMN NUMBER

◒ MIN LAP OF BARS SHOWN BELOW.

LAPPED ◒ BARS	MIN LAP
P908	8'-7"
P909	8'-7"
P411	2'-4"
P912	9'-8"
P913	9'-8"
P416	2'-4"
P417	2'-4"

(A) 5 SPA AT 1'-0" = 5'-0" ; P406 IN PAIRS

(B) 19 SPA AT 7" = 11'-1" ; P507 IN PAIRS

(C) 7 EQ SPA (9" MAX) = 5'-0" ; P406 IN PAIRS

(D) 11 SPA AT 1'-0" = 11'-0" ; P507 IN PAIRS

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PIERS 1 & 2

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FILE NAME : ±±msn-fp01±Entp±23046-70±08037±TECH±CADD±dwg±080117_pr.dgn PLOT DATE : 11/1/2011 PLOT BY : 1258MJB PLOT SCALE : 8.00 '/ in.

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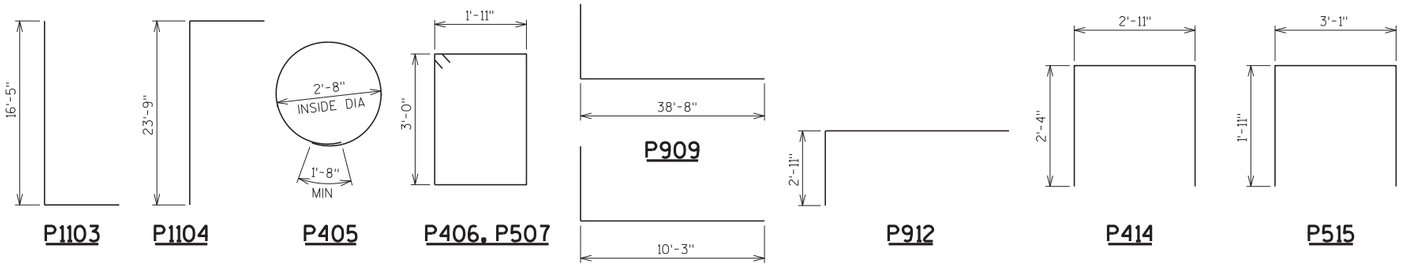
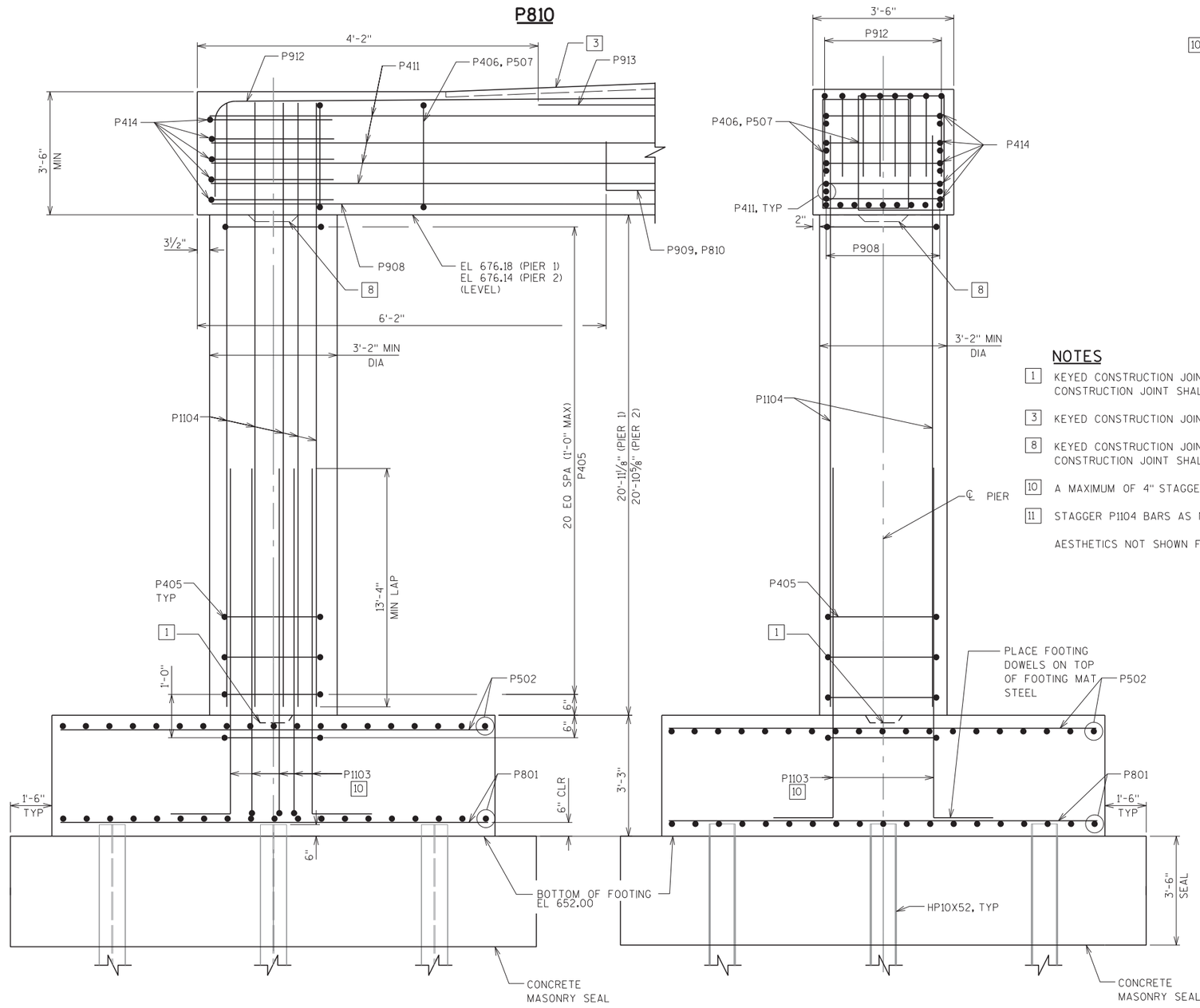
PIER 1 COATED= 28870 LBS.
PIER 1 UNCOATED= 7530 LBS.
PIER 2 COATED= 29070 LBS.
PIER 2 UNCOATED= 7530 LBS.





BILL OF BARS
PIERS

	MARK	COATED	NO. REQ'D. PIER 1	NO. REQ'D. PIER 2	LENGTH FT - IN	BENT	BAR SERIES	LOCATION	
	P 8 01		190	190	10 - 8			FOOTING - BOTTOM MAT	HORIZ
	P 5 02		190	190	10 - 8			FOOTING - TOP MAT	HORIZ
10	P 11 03	X	75	75	18 - 1	X		COLUMN - FOOTING TO COLUMN DOWELS	VERT
	P 11 04	X	75	75	25 - 5	X		COLUMN - COLUMN TO CAP DOWELS	VERT
	P 4 05	X	110	110	10 - 3	X		COLUMN - SHAFT TIE	HORIZ
	P 4 06	X	56	56	10 - 4	X		CAP - STIRRUP	VERT
	P 5 07	X	128	128	10 - 5	X		CAP - STIRRUP	VERT
	P 9 08	X	18	18	44 - 8			CAP - BOTTOM	HORIZ
	P 9 09	X	10	10	40 - 0	X		CAP - BOTTOM	HORIZ
	P 8 10	X	8	8	11 - 5	X		CAP - BOTTOM - OUTSIDE SPANS	HORIZ
	P 4 11	X	16	16	41 - 7			CAP - SIDES	HORIZ
	P 9 12	X	16	16	47 - 11	X		CAP - TOP	HORIZ
	P 9 13	X	8	8	41 - 3			CAP - TOP	HORIZ
	P 4 14	X	10	10	7 - 5	X		CAP - TIES AT ENDS	HORIZ
	P 5 15	X	40	62	6 - 8	X		CAP - TIES	VERT
	P 4 16	X	6		20 - 10			CAP - TOP PIER 1	HORIZ
	P 4 17	X		6	31 - 10			CAP - TOP PIER 2	HORIZ
	P 5 18	X	40	40	2 - 0			DOWELS	VERT

BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS UNLESS OTHERWISE NOTED.

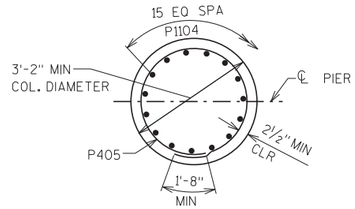
ALL REINFORCING BARS ARE ENGLISH.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

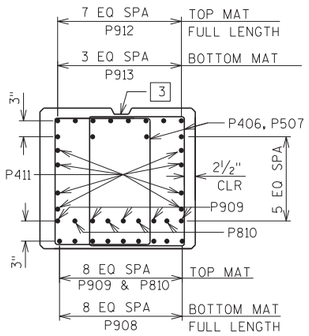
NOTES

1. KEYED CONSTRUCTION JOINT SHALL BE FORMED BY A BEVELED KEYWAY 2" DEEP X 1'-3" X 1'-3". EXPOSED EDGES OF CONSTRUCTION JOINT SHALL BE FLUSH AND NOT BEVELED IN COLUMNS.
3. KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2" X 6" KEYWAY BETWEEN BEAM SEATS.
8. KEYED CONSTRUCTION JOINT SHALL BE FORMED BY A BEVELED KEYWAY 2" DEEP X 1'-3" X 1'-3". EXPOSED EDGES OF CONSTRUCTION JOINT SHALL HAVE A 1" BEVEL IN THE COLUMNS.
10. A MAXIMUM OF 4" STAGGER WAS ACCOUNTED FOR IN DETERMINING P1103 BAR LENGTH.
11. STAGGER P1104 BARS AS NEEDED TO ACHEIVE MINIMUM CLEAR BETWEEN BAR LEGS.

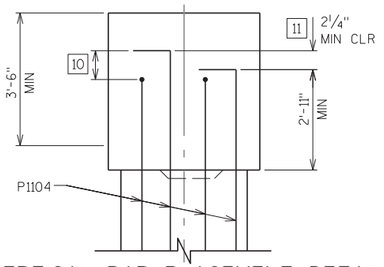
AESTHETICS NOT SHOWN FOR CLARITY. SEE SHEET 38 FOR DETAILS.



SECTION THRU COLUMN



SECTION THRU CAP



VERTICAL BAR PLACEMENT DETAIL

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STRUCTURES DESIGN SECTION

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PIER DETAILS

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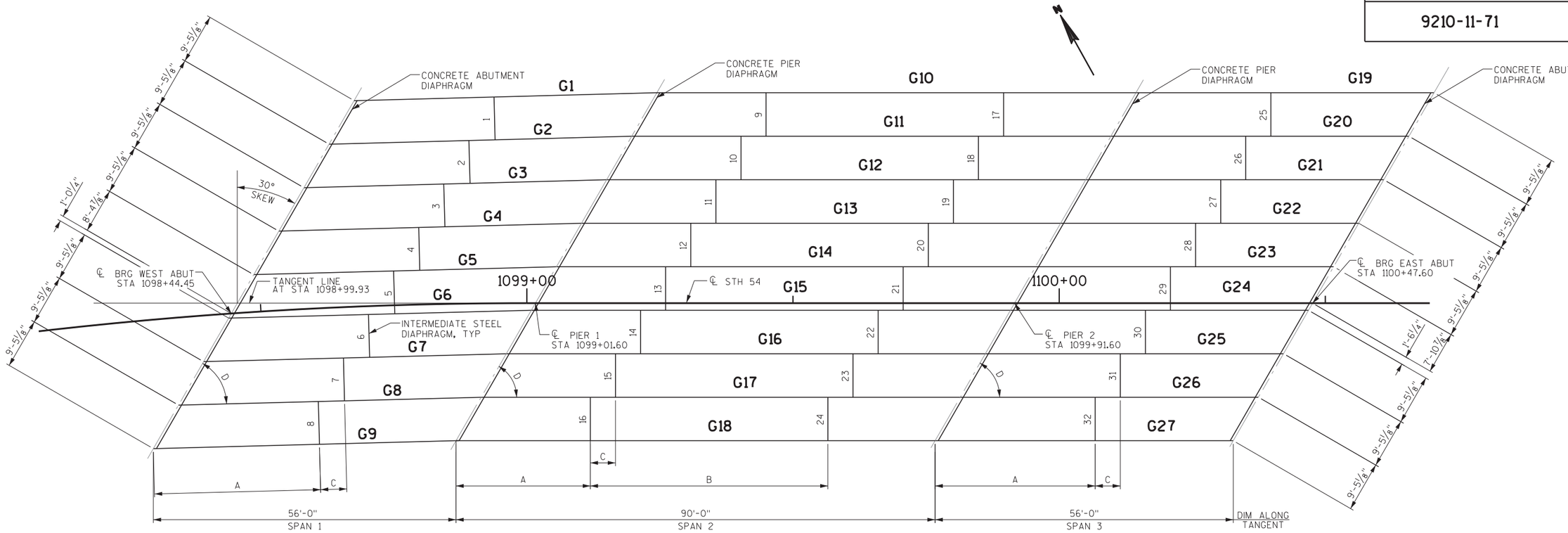

FRAMING PLAN

INTERMEDIATE STEEL DIAPHRAGMS

DIAPH.	[1] LENGTH
1	8'-0 1/2"
2	8'-0 1/2"
3	8'-0 1/2"
4	8'-0 1/2"
5	8'-0 1/2"
6	8'-0 1/2"
7	8'-0 1/2"
8	8'-0 1/2"
9	8'-2"
10	8'-2"
11	8'-2"
12	8'-2"
13	8'-2"
14	8'-2"
15	8'-2"
16	8'-2"
17	8'-2"
18	8'-2"
19	8'-2"
20	8'-2"
21	8'-2"
22	8'-2"
23	8'-2"
24	8'-2"
25	8'-2"
26	8'-2"
27	8'-2"
28	8'-2"
29	8'-2"
30	8'-2"
31	8'-2"
32	8'-2"

PRESTRESSED CONCRETE GIRDER DIMENSIONS

GIRDER	[2] LENGTH	[3] 'A'	[4] 'B'	[4] 'C'	ANGLE 'D'
G1	56'-3"	30'-7 1/8"	----	4'-11 1/8"	58°30'00"
G2	56'-3"	30'-7 1/8"	----	4'-11 1/8"	58°30'00"
G3	56'-3"	30'-7 1/8"	----	4'-11 1/8"	58°30'00"
G4	56'-3"	30'-7 1/8"	----	4'-11 1/8"	58°30'00"
G5	56'-3"	30'-7 1/8"	----	4'-11 1/8"	58°30'00"
G6	56'-3"	30'-7 1/8"	----	4'-11 1/8"	58°30'00"
G7	56'-3"	30'-7 1/8"	----	4'-11 1/8"	58°30'00"
G8	56'-3"	30'-7 1/8"	----	4'-11 1/8"	58°30'00"
G9	56'-3"	30'-7 1/8"	----	4'-11 1/8"	58°30'00"
G10	88'-9"	31'-11 1/4"	29'-7"	4'-8 5/8"	60°00'00"
G11	88'-9"	31'-11 1/4"	29'-7"	4'-8 5/8"	60°00'00"
G12	88'-9"	31'-11 1/4"	29'-7"	4'-8 5/8"	60°00'00"
G13	88'-9"	31'-11 1/4"	29'-7"	4'-8 5/8"	60°00'00"
G14	88'-9"	31'-11 1/4"	29'-7"	4'-8 5/8"	60°00'00"
G15	88'-9"	31'-11 1/4"	29'-7"	4'-8 5/8"	60°00'00"
G16	88'-9"	31'-11 1/4"	29'-7"	4'-8 5/8"	60°00'00"
G17	88'-9"	31'-11 1/4"	29'-7"	4'-8 5/8"	60°00'00"
G18	88'-9"	31'-11 1/4"	29'-7"	4'-8 5/8"	60°00'00"
G19	55'-4 1/2"	30'-0 1/2"	----	4'-8 5/8"	60°00'00"
G20	55'-4 1/2"	30'-0 1/2"	----	4'-8 5/8"	60°00'00"
G21	55'-4 1/2"	30'-0 1/2"	----	4'-8 5/8"	60°00'00"
G22	55'-4 1/2"	30'-0 1/2"	----	4'-8 5/8"	60°00'00"
G23	55'-4 1/2"	30'-0 1/2"	----	4'-8 5/8"	60°00'00"
G24	55'-4 1/2"	30'-0 1/2"	----	4'-8 5/8"	60°00'00"
G25	55'-4 1/2"	30'-0 1/2"	----	4'-8 5/8"	60°00'00"
G26	55'-4 1/2"	30'-0 1/2"	----	4'-8 5/8"	60°00'00"
G27	55'-4 1/2"	30'-0 1/2"	----	4'-8 5/8"	60°00'00"

NOTES

ALL DIAPHRAGMS PLACED PERPENDICULAR TO GIRDERS.

[1] MEASURED ℄ GIRDER TO ℄ GIRDER ALONG ℄ DIAPHRAGM.

[2] ℄ BEARING TO ℄ BEARING

[3] ℄ BEARING TO ℄ DIAPHRAGM ALONG ℄ GIRDER

[4] ℄ DIAPHRAGM TO ℄ DIAPHRAGM ALONG ℄ GIRDER

G** = GIRDER NUMBER

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FRAMING PLAN

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GIRDER NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY FOR BONDING TO THE SLAB, EXCEPT THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

PRESTRESSING STRANDS SHALL BE 0.6" DIA. - 7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 psi.

STRANDS SHALL BE FLUSH WITH THE END OF GIRDER. ENDS OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "INTERMEDIATE STEEL DIAPHRAGMS" SHEET.

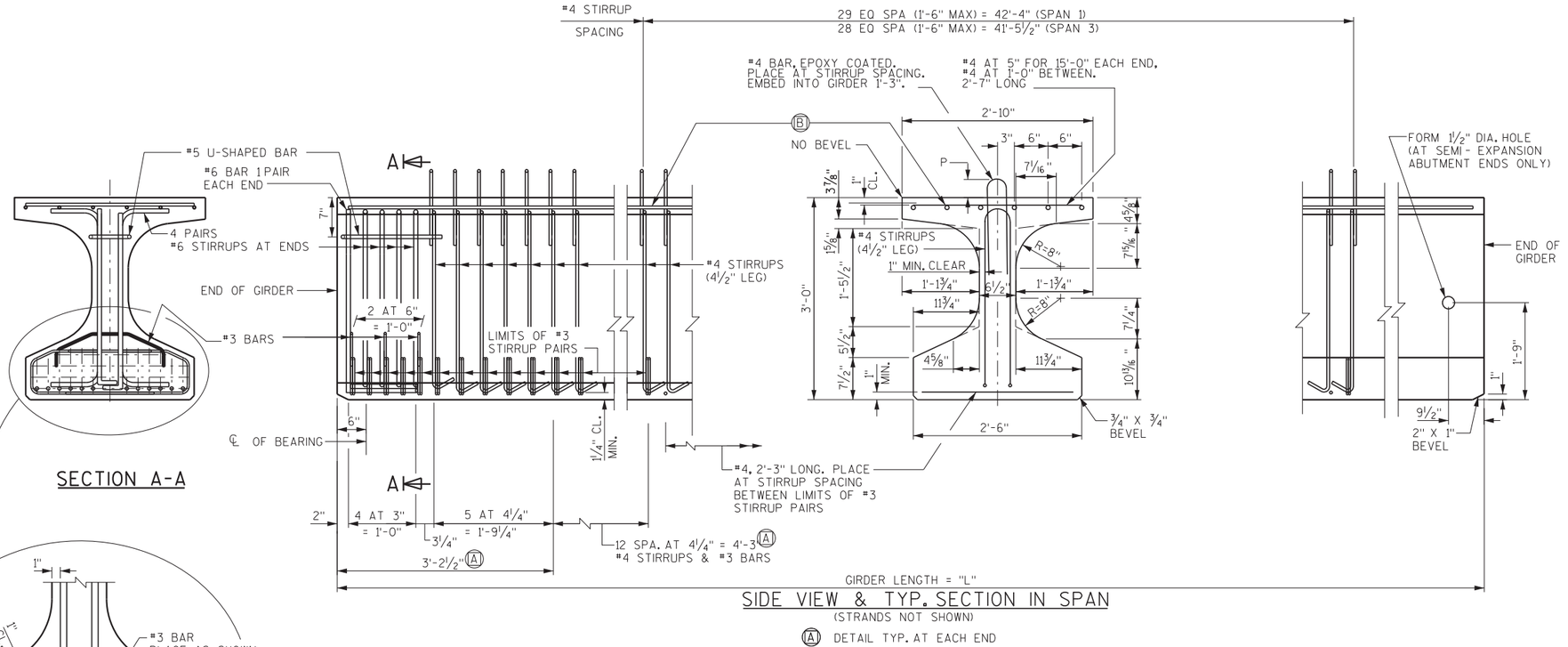
ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT. IF THE FABRICATOR WANTS TO BUILD A BAR STEEL CAGE BY WELDING LONGITUDINAL REINFORCEMENT TO THE #4 STIRRUPS, THE FOLLOWING OPTION IS AVAILABLE:

USE ASTM A706, GRADE 60 REINFORCEMENT AND THE STIRRUP SPACING AS SHOWN ON THE PLANS.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT CHIEF, (608)266-5161.

DO NOT APPLY CONCRETE SURFACE SEALER TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.



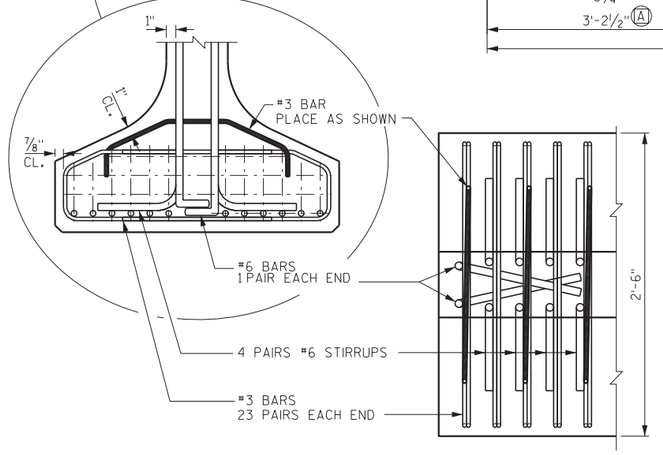
SECTION A-A

SIDE VIEW & TYP. SECTION IN SPAN

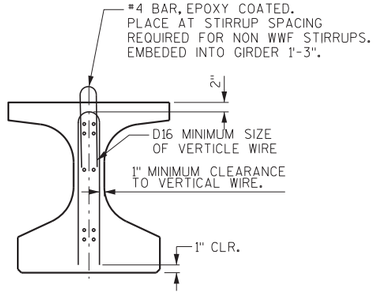
(STRANDS NOT SHOWN)

Ⓐ DETAIL TYP. AT EACH END

Ⓑ 6 #4 BARS, FULL LENGTH

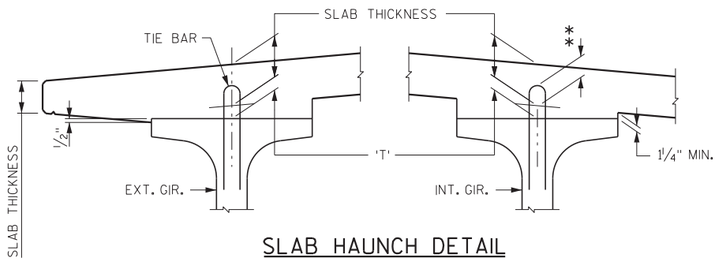


BOTTOM FLANGE



SECTION THRU GIRDER

SHOWING WELDED WIRE FABRIC (WWF) STIRRUPS



SLAB HAUNCH DETAIL

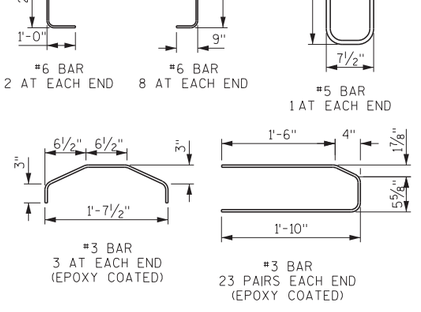
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN SLAB THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

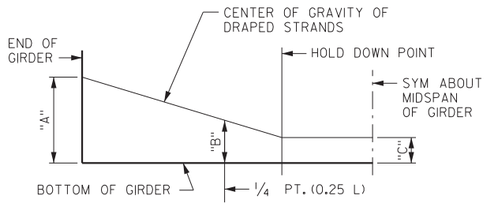
** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- SLAB THICKNESS
= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 2¾" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES"





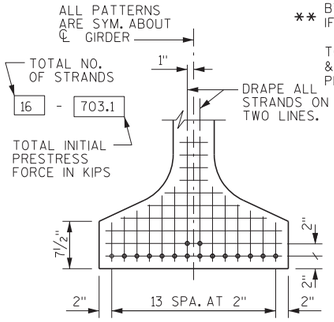
DRAPED STRAND PROFILE

* THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

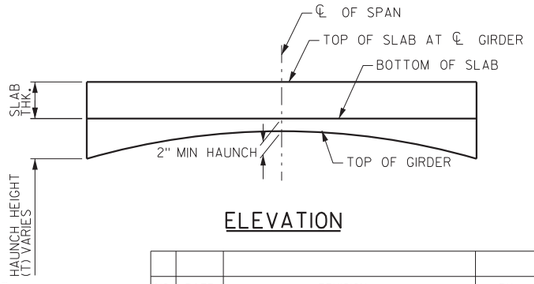
SPAN	CAMBER (IN.) *
1	1"
3	⅞"

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.



TYP. STRAND PATTERN

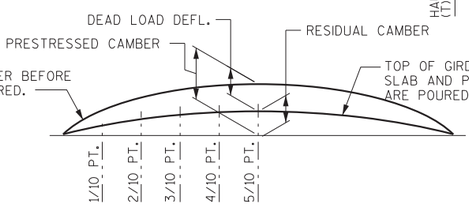


ELEVATION

* MINIMUM CYLINDER STRENGTH OF CONCRETE AT TIME OF TRANSFER OF PRESTRESS FORCE.

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.) 1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	CONC. STRGTH. f'c (p.s.i.)	"P" 1st 1/3 OF GIRDER	"P" MID 1/3 OF GIRDER	"P" END 1/3 OF GIRDER	DIA. OF STRAND (IN.)	DRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (P.S.I.) *	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	UNDRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (P.S.I.) *
1	ALL	57'-3"	⅛"	¼"	¼"	⅜"	⅜"	⅜"	¼"	¼"	⅛"	8000	7"	7"	7"	0.6	16	6800	33	10½	13½	3	-	-
3	ALL	56'-4½"	⅛"	¼"	¼"	⅜"	⅜"	⅜"	¼"	¼"	⅛"	8000	7"	7"	7"	0.6	16	6800	33	10½	13½	3	-	-



DEAD LOAD DEFLECTION DIAGRAM

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

36W" PRESTRESSED GIRDER DETAILS - SPANS 1 & 3

SHEET 20 OF 39

344

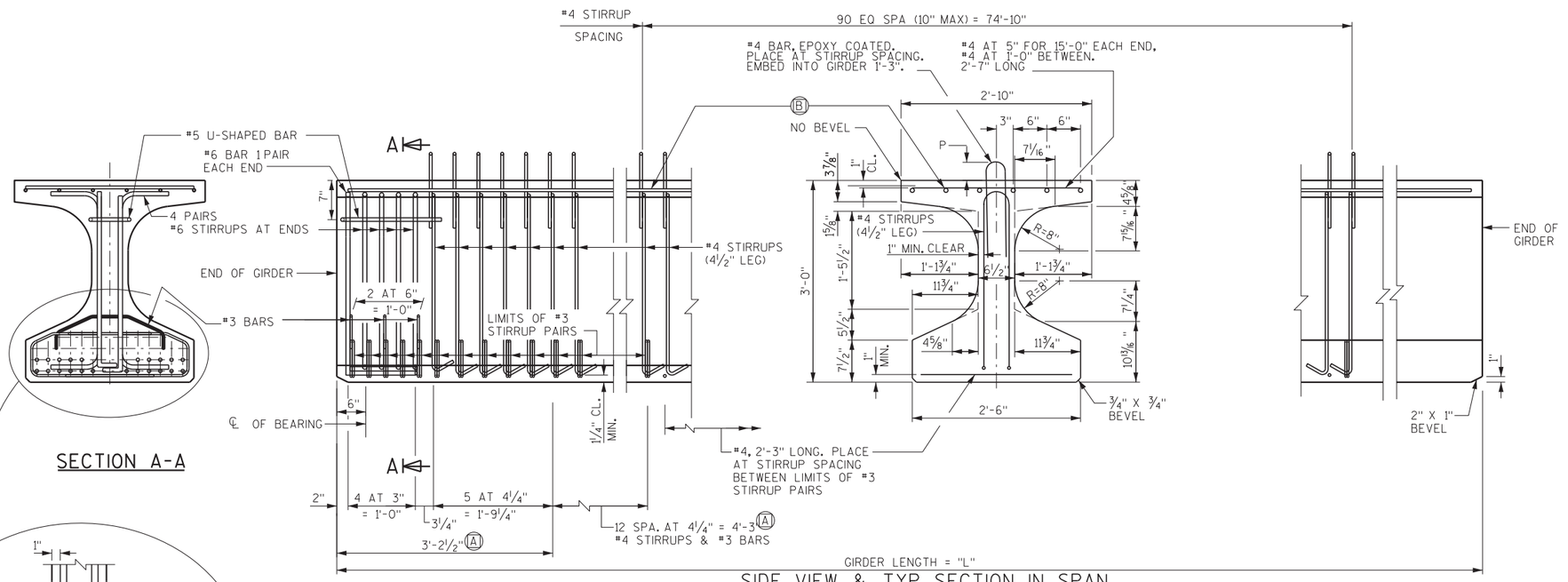
8

8

FILE NAME : ±±msn-fp01±Entp±23046-70±08037±TECH±CADD±dwg±080120_gr1.dgn PLOT DATE : 11/1/2011 PLOT BY : 1258MJB PLOT SCALE : 8.000000 ' / in.

STATE PROJECT NUMBER

9210-11-71



SECTION A-A

SIDE VIEW & TYP. SECTION IN SPAN

(STRANDS NOT SHOWN)

Ⓐ DETAIL TYP. AT EACH END

Ⓑ 6 #4 BARS, FULL LENGTH

GIRDER NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY FOR BONDING TO THE SLAB, EXCEPT THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

PRESTRESSING STRANDS SHALL BE 0.6" DIA. - 7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 psi.

STRANDS SHALL BE FLUSH WITH THE END OF GIRDER. ENDS OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "INTERMEDIATE STEEL DIAPHRAGMS" SHEET.

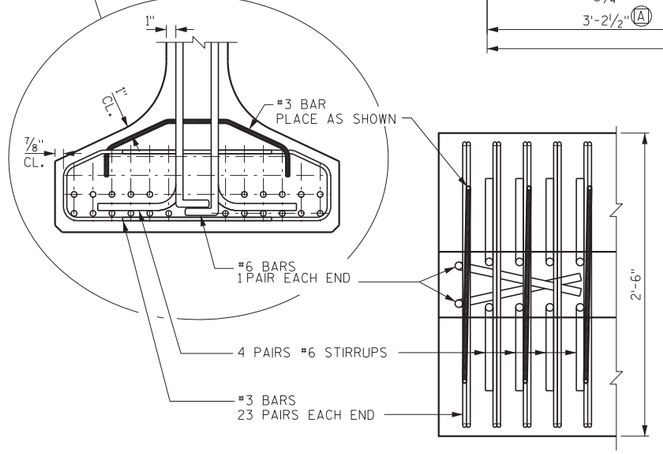
ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT. IF THE FABRICATOR WANTS TO BUILD A BAR STEEL CAGE BY WELDING LONGITUDINAL REINFORCEMENT TO THE #4 STIRRUPS, THE FOLLOWING OPTION IS AVAILABLE:

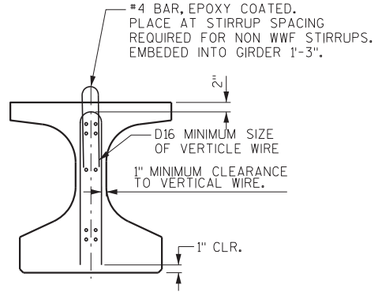
USE ASTM A706, GRADE 60 REINFORCEMENT AND THE STIRRUP SPACING AS SHOWN ON THE PLANS.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT CHIEF, (608)266-5161.

DO NOT APPLY CONCRETE SURFACE SEALER TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

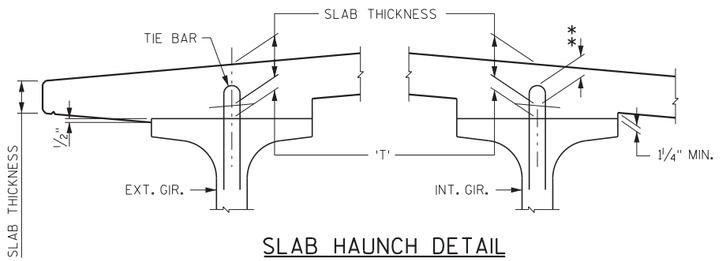


BOTTOM FLANGE



SECTION THRU GIRDER

SHOWING WELDED WIRE FABRIC (WWF) STIRRUPS



SLAB HAUNCH DETAIL

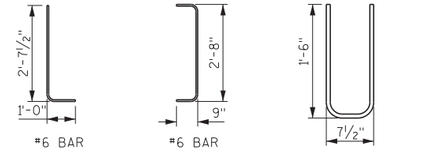
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN SLAB THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

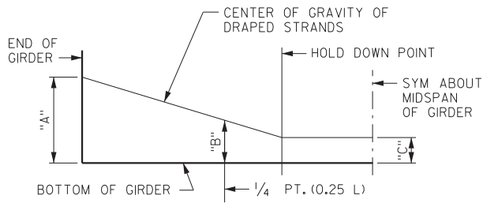
** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- SLAB THICKNESS
= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 2¾" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES"





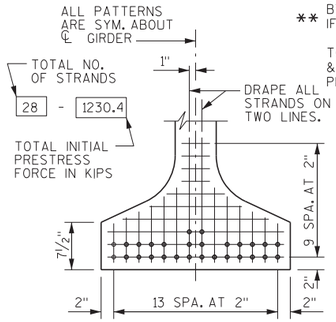
DRAPED STRAND PROFILE

* THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

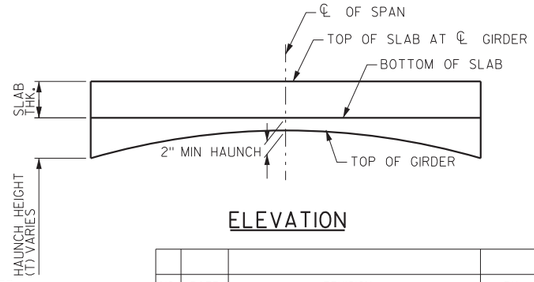
SPAN	CAMBER (IN.) *
2	2⅞"

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

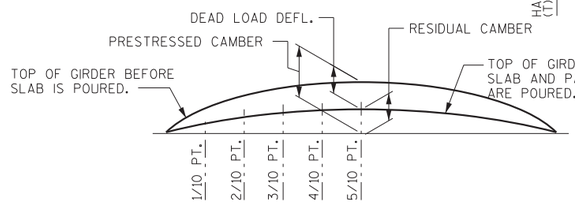
THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.



TYP. STRAND PATTERN



ELEVATION



DEAD LOAD DEFLECTION DIAGRAM

* MINIMUM CYLINDER STRENGTH OF CONCRETE AT TIME OF TRANSFER OF PRESTRESS FORCE.

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.) 1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	CONC. STRGTH. f'c (p.s.i.)	"P" 1st 1/3 OF GIRDER	"P" MID 1/3 OF GIRDER	"P" END 1/3 OF GIRDER	DIA. OF STRAND (IN.)	DRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (P.S.I.) *	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	UNDRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (P.S.I.) *
2	ALL	89'-9"	⅝"	1¼"	1¾"	2⅛"	2¼"	2⅛"	1¾"	1¼"	⅝"	8000	7"	7"	7"	0.6	28	6800	32	11	14	4	-	-

FILE NAME : ±±msn-fp01±Entp±23046-70±08037±TECH±CADD±dwg±080121_gr2.dgn PLOT DATE : 11/1/2011 PLOT BY : 1258MJB PLOT SCALE : 8.000000 ' / in.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

36W" PRESTRESSED GIRDER DETAILS - SPAN 2

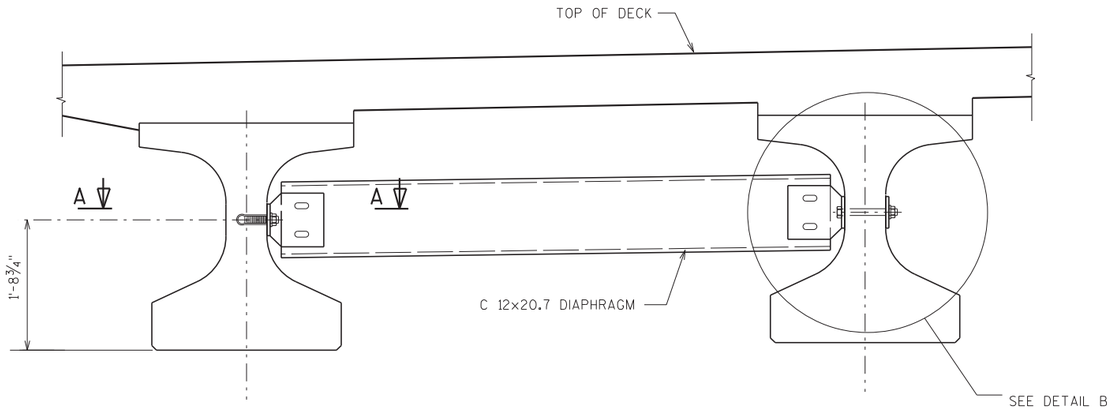
SHEET 21 OF 39
345

8

8

STATE PROJECT NUMBER

9210-11-71



EXTERIOR GIRDER

INTERIOR GIRDER

PART TRANSVERSE SECTION AT DIAPHRAGM

NOTES

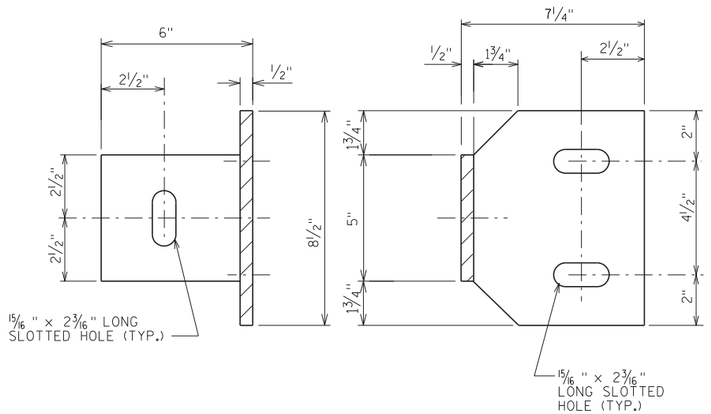
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS (B-05-0392)", EACH.

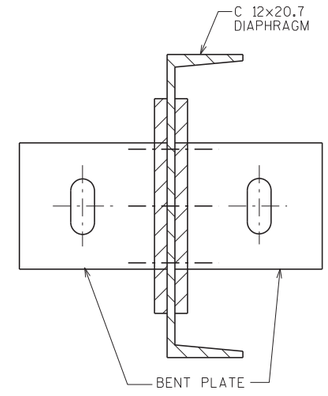
EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

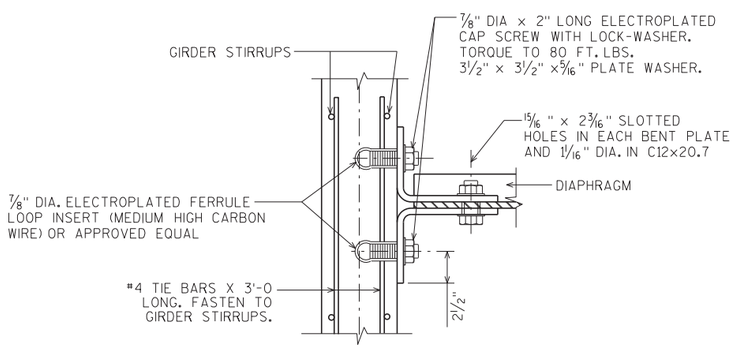
ALL DIAPHRAGM STRUCTURAL STEEL SHOWN SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563, LUBRICANT AND TEST FOR COATED NUTS.

SEE FRAMING PLAN ON SHEET 19 FOR DETAILS ON DIAPHRAGM LOCATIONS AND LENGTHS.



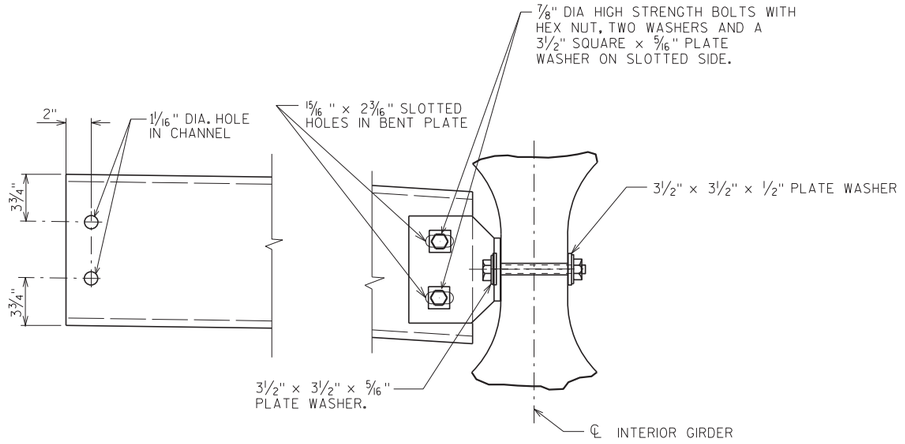


ATTACHMENT TO CHANNEL



SECTION A-A

(FOR EXTERIOR ATTACHMENT)



DETAIL B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-05-392

DRAWN BY TAV | PLANS CK'D. GAR

INTERMEDIATE STEEL DIAPHRAGMS

SHEET 22 OF 39

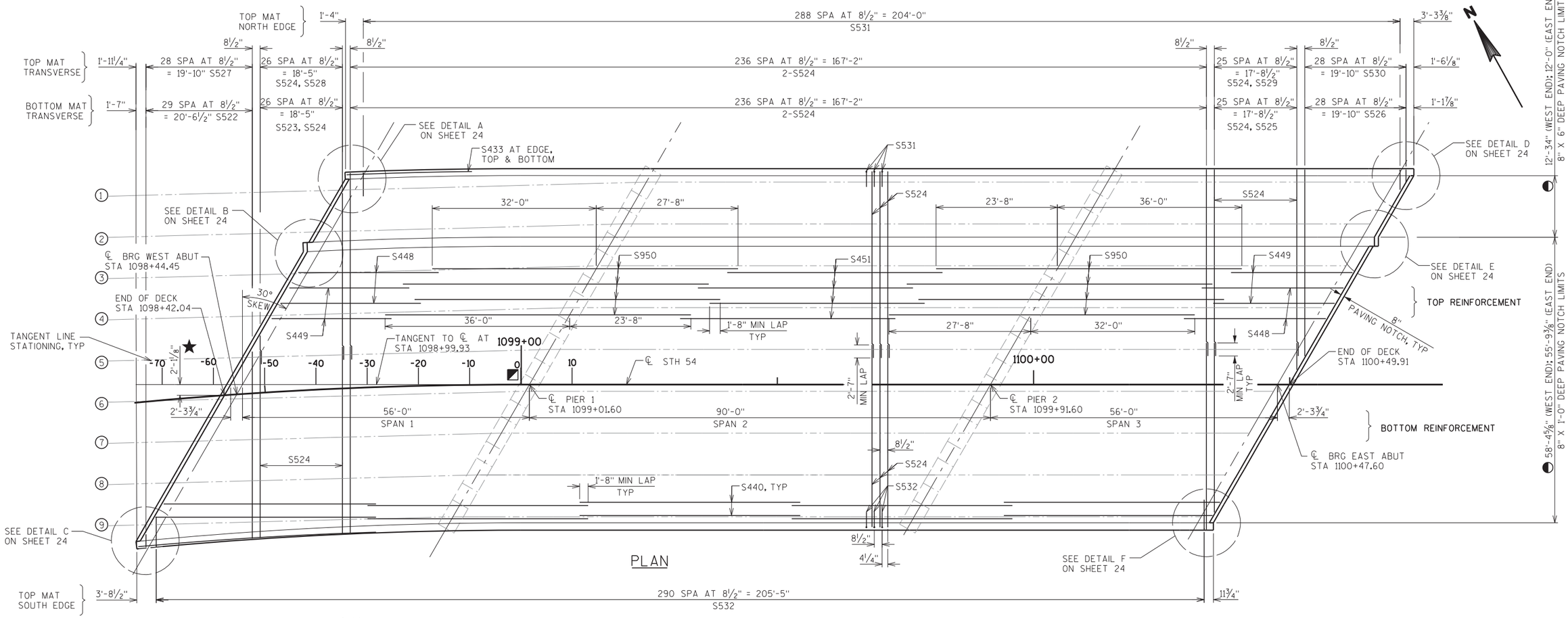
346

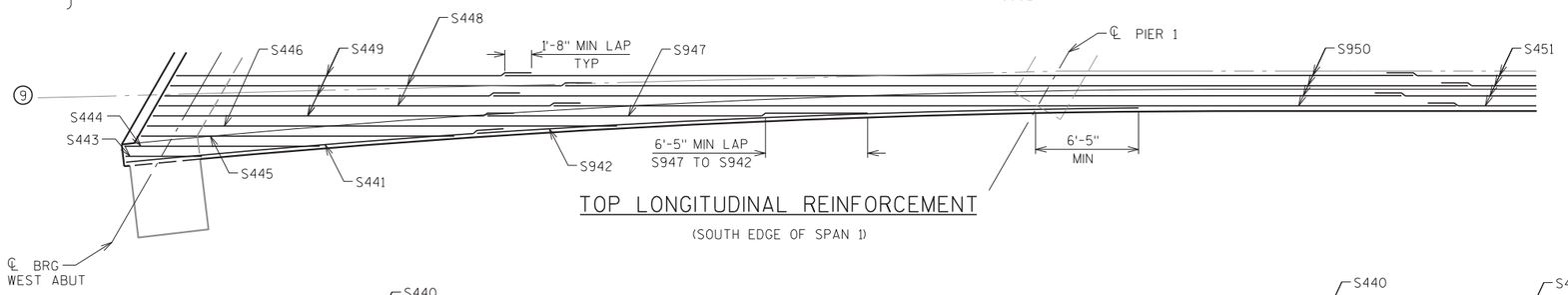
8

8

STATE PROJECT NUMBER

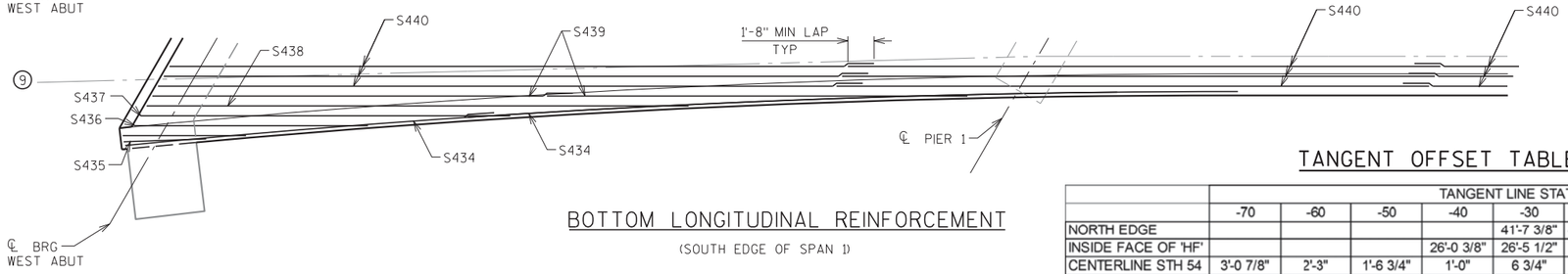
9210-11-71





TOP LONGITUDINAL REINFORCEMENT

(SOUTH EDGE OF SPAN 1)



BOTTOM LONGITUDINAL REINFORCEMENT

(SOUTH EDGE OF SPAN 1)

NOTES

SEE SHEET 27 FOR PARAPET REINFORCING DETAILS.

℄ OF GIRDERS SHOWN FOR REFERENCE ONLY. SEE TYPICAL SECTION ON SHEET 2 AND FRAMING PLAN ON SHEET 19 FOR DETAILED LOCATIONS AND SPACING.

ALL TRANSVERSE BAR SPACING GIVEN PARALLEL TO TANGENT LINE.

◐ PAVING NOTCH LENGTHS GIVEN PERPENDICULAR TO TANGENT LINE.

◪ TANGENT STATIONING EQUALS 0 AT STA 1098+99.93 ON ℄ STH 54.

★ DIMENSION GIVEN AT END OF DECK.

Ⓝ INDICATES GIRDER NUMBER.

TANGENT OFFSET TABLE ◪

	TANGENT LINE STATIONING								
	-70	-60	-50	-40	-30	-20	-10	0	> 0
NORTH EDGE					41'-7 3/8"	41'-10 7/8"	42'-1"	42'-1 3/4"	42'-1 3/4"
INSIDE FACE OF 'HF'				26'-0 3/8"	26'-5 1/2"	26'-9 1/8"	26'-11 1/4"	27'-0"	27'-0"
CENTERLINE STH 54	3'-0 7/8"	2'-3"	1'-6 3/4"	1'-0"	6 3/4"	3"	0 3/4"	0"	0"
SOUTH EDGE	31'-7 1/2"	30-9 3/8"	30'-0 7/8"	29'-5 7/8"	29'-0 3/8"	28'-8 1/2"	28'-6 1/8"	28'-5 3/8"	28'-5 3/8"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

SUPERSTRUCTURE

SHEET 23 OF 39
347

8

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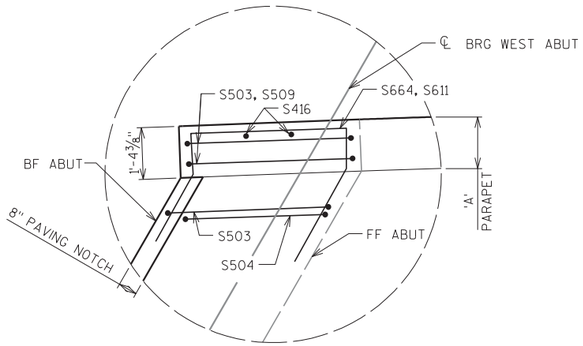
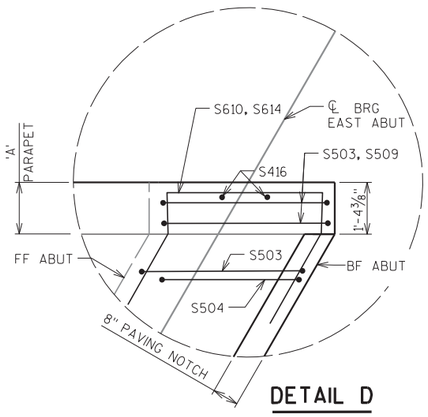
FILE NAME : ±±msn-fp01±Entp±23046-70±08037±TECH±CADD±dwg±080123_ss.dgn PLOT DATE : 11/1/2011 PLOT BY : 1258MJB PLOT SCALE : 20.00 '/ in.

STATE PROJECT NUMBER

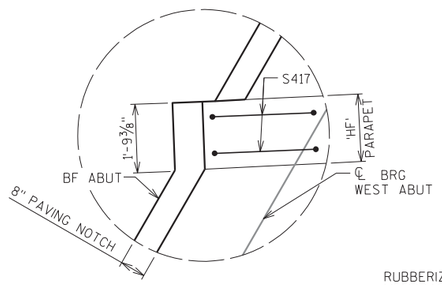
9210-11-71



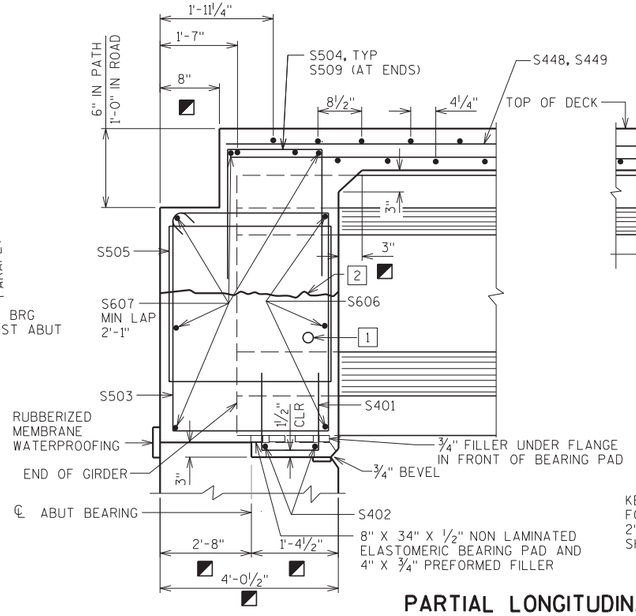
DETAIL A

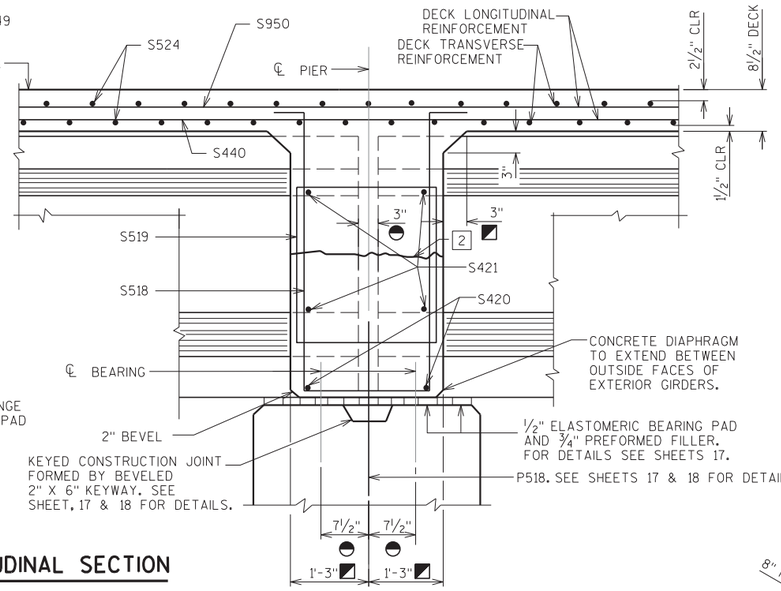


DETAIL D

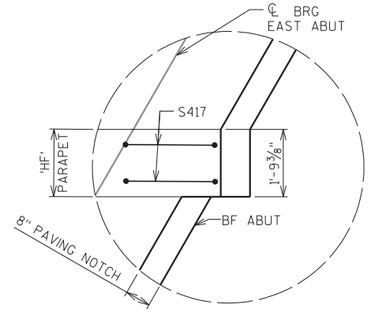


DETAIL B

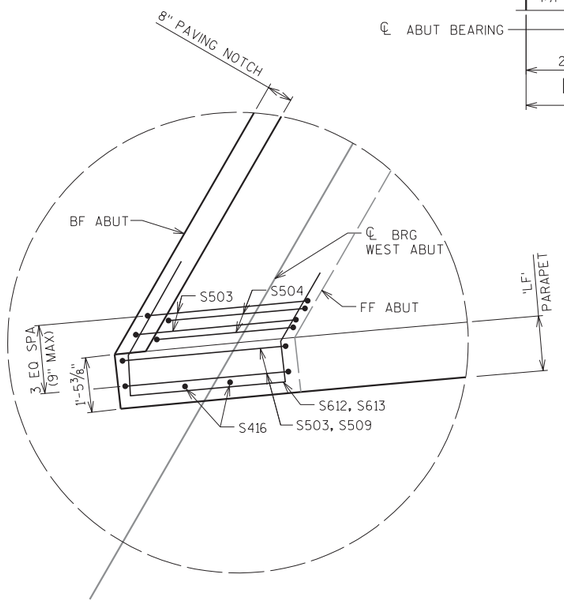




PARTIAL LONGITUDINAL SECTION



DETAIL E



DETAIL C

NOTES

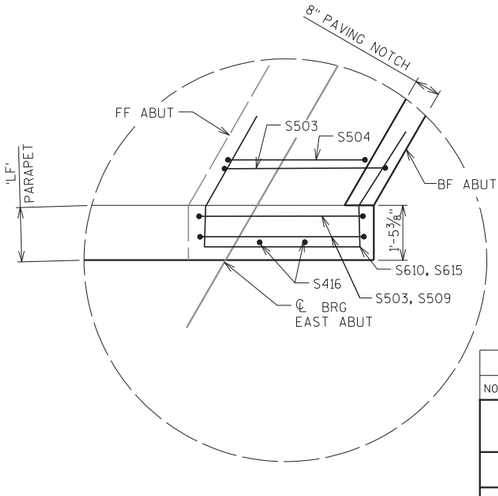
1. 1½" DIA. HOLE IN WEB FOR 2 - S508 BARS. PLACE SYMMETRICAL ABOUT ℄ OF GIRDERS. FIELD BEND BARS ALONG SKEW.
2. OPTIONAL CONSTRUCTION JOINT 1'-2" BELOW TOP OF GIRDER. IF USED, DECK POUR MUST BE WITHIN 2 WEEKS FROM THE TIME OF THE DIAPHRAGM POUR.

◓ DIMENSION IS TAKEN PARALLEL TO GIRDER ℄.

◩ DIMENSION IS TAKEN NORMAL TO ℄ OF SUBSTRUCTURE UNITS.

FF - FRONT FACE

BF - BACK FACE



DETAIL F

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

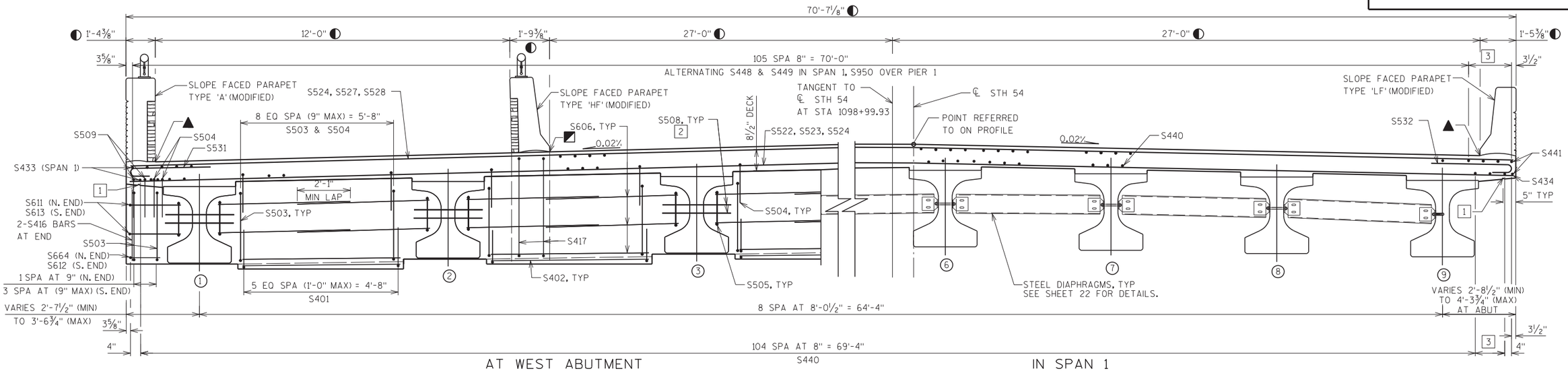
SUPERSTRUCTURE DETAILS

SHEET 24 OF 39
348

8

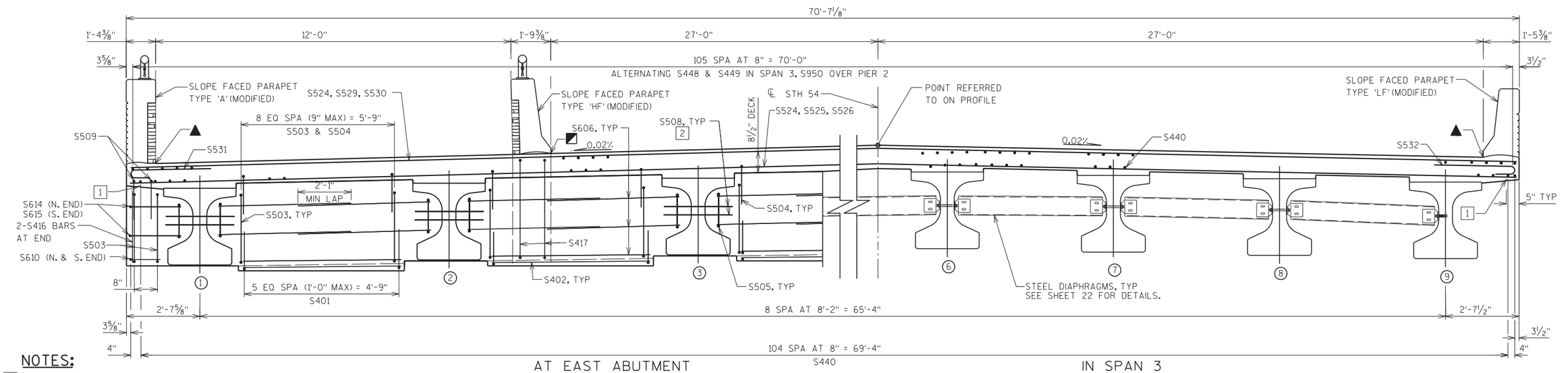
8

STATE PROJECT NUMBER
9210-11-71



CROSS SECTION THRU DECK

(SPAN 1 - LOOKING UPSTATION THROUGH BACK OF ABUTMENT)



CROSS SECTION THRU DECK

(SPAN 3 - LOOKING UPSTATION)

NOTES:

1. ¾" CONTINUOUS DRIP GROOVE. TERMINATE 2'-0" FROM FACE OF ABUTMENT.
2. 1½" DIA HOLE IN WEB FOR 2-S508 BARS. PLACE SYMMETRICAL ABOUT ℄ OF GIRDERS. FIELD BEND BARS ALONG SKEW.
3. SEE SOUTH EDGE VIEWS ON SHEET 23 FOR BARS AT EDGE OF DECK IN SPAN 1. VARIES FROM 3'-7¾" TO 1⅝".

▲ EDGE OF DECK ELEVATIONS SHOWN ON SHEET 28 ARE GIVEN AT THIS POINT.

◩ DECK ELEVATIONS AT 'HF' PARAPET SHOWN ON SHEET 28 ARE GIVEN TO THIS POINT.

◐ DIMENSIONS GIVEN ALONG RADIAL LINES TO ℄ STH 54.

Ⓝ INDICATES GIRDER NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

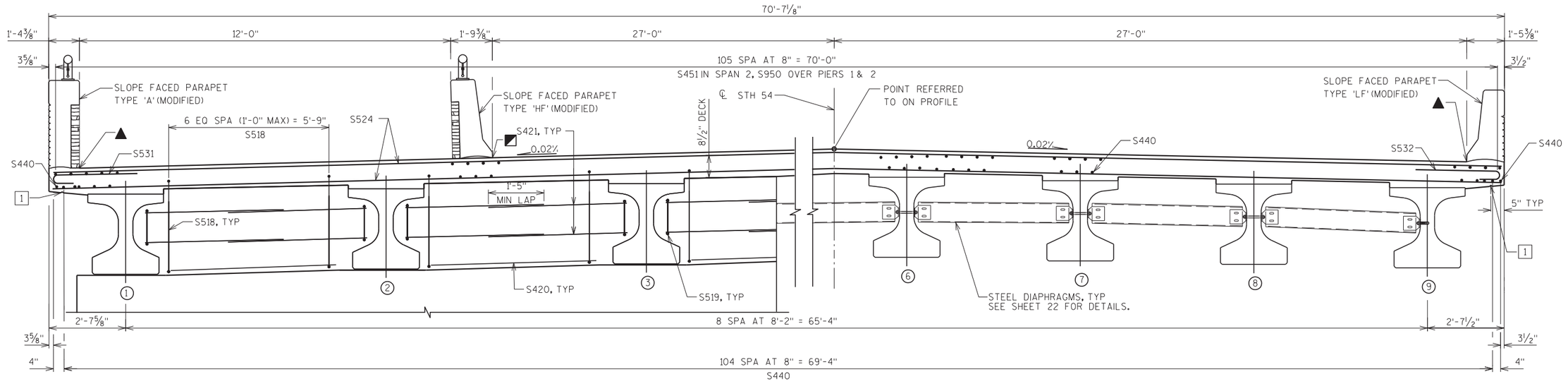
DRAWN BY TAV | PLANS CK'D. GAR

SUPERSTRUCTURE DETAILS - CROSS SECTION

SHEET 25 OF 39

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\080125_ss.dgn PLOT DATE : 11/3/2011 PLOT BY : 1258MJB PLOT NAME : $FILE$ PLOT SCALE : 4.00000 sf / in.

STATE PROJECT NUMBER
9210-11-71



AT PIERS

IN SPAN 2

CROSS SECTION THRU DECK

(SPAN 2 - LOOKING UPSTATION)

8

8

NOTES:

1. 3/4" CONTINUOUS DRIP GROOVE. TERMINATE 2'-0" FROM FACE OF ABUTMENT.

▲ EDGE OF DECK ELEVATIONS SHOWN ON SHEET 28 ARE GIVEN AT THIS POINT.

◪ DECK ELEVATIONS AT 'HF' PARAPET SHOWN ON SHEET 28 ARE GIVEN TO THIS POINT.

(N) INDICATES GIRDER NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

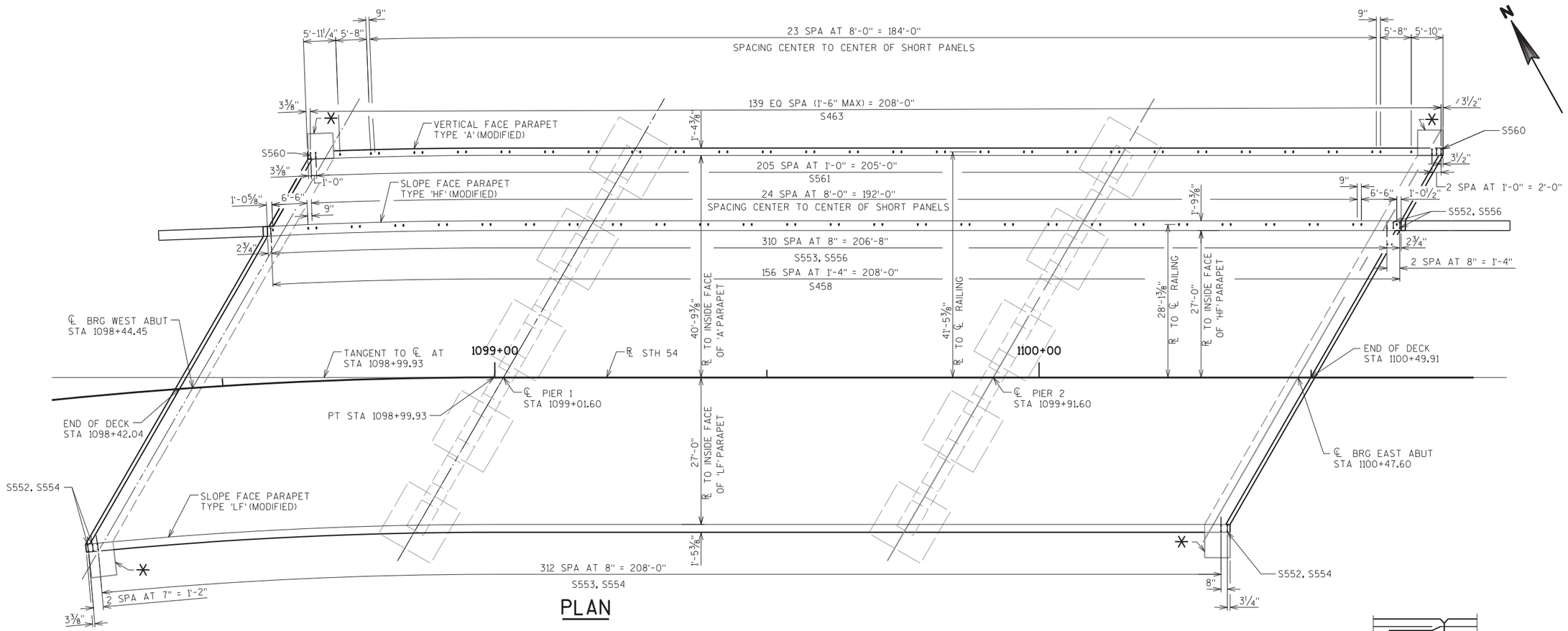
SUPERSTRUCTURE DETAILS - CROSS SECTION

SHEET 26 OF 39

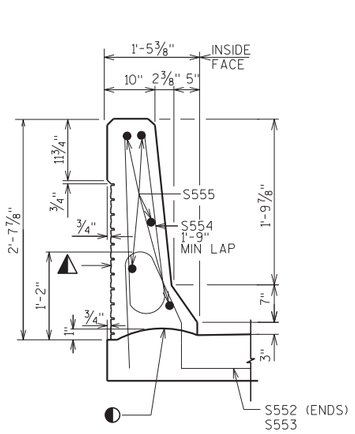
FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\080126_ss.dgn PLOT DATE : 11/3/2011 PLOT BY : 1258MJB PLOT NAME : $FILE$ PLOT SCALE : 4.00000 sf / in.

STATE PROJECT NUMBER

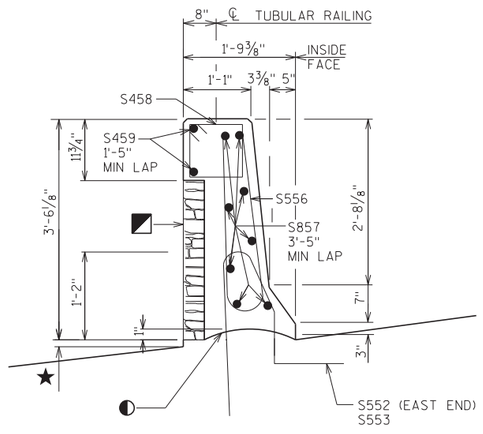
9210-11-71



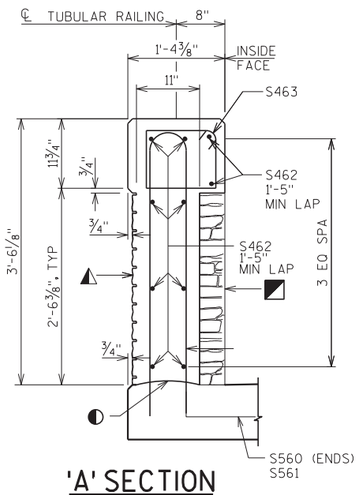
PLAN



'LF' SECTION



'HF' SECTION



'A' SECTION

NOTES

ALL RAILING DIMENSIONS GIVEN ALONG ℄ OF RAILING.

SEE SHEET 32 FOR TUBULAR RAILING DETAILS.

ALL PARAPET REINFORCING SPACING GIVEN ALONG INSIDE FACE OF PARAPET.

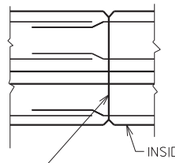
✳ PILASTER. SEE SHEET 33 FOR DETAILS.

◭ "ARCHITECTURAL SURFACE TREATMENT" AND "CONCRETE STAINING MULTI-COLOR B-05-0392" SHALL BE PLACED ON THE OUTSIDE FACES OF THE SLOPED FACE PARAPET TYPE 'LF' (MODIFIED) AND THE VERTICAL FACE PARAPET TYPE 'A' (MODIFIED).

◪ "STONE VENEER 4-INCH" SET INTO SHARED PATH FACES OF THE SLOPED FACE PARAPET TYPE 'HF' (MODIFIED) AND VERTICAL FACE PARAPET TYPE 'A' (MODIFIED).

★ THIS DIMENSION SET SO PARAPET SITS LEVEL WHILE MAINTAINING A .02% SLOPE OF TOP OF DECK.

◐ CONSTRUCTION JOINT - STRIKE OFF AS SHOWN.



OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF THRU THE JOINT. LAP LONGIT. BARS AS SHOWN IN SECTION VIEWS. MIN. JOINT SPACING OF 80'-0" DEFINE CONST. JOINT WITH A ¾" 'V' GROOVE.

CONSTRUCTION JOINT DETAIL

(PARAPETS)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

SUPERSTRUCTURE PARAPET & POST SPACING

SHEET 27 OF 39
351

8

8

STATE PROJECT NUMBER

9210-11-71

BILL OF BARS
SUPERSTRUCTURE

COATED= 139100 LBS.
UNCOATED= 0 LBS.

MARK	NUMBER COATED	NUMBER UNCOATED	LENGTH FT - IN	BENT	BAR SERIES	LOCATION	
S 4 01	96		3 - 8	X		ABUT DIAPHRAGM BETWEEN BEAM SEATS	VERT
S 4 02	32		4 - 9			ABUT DIAPHRAGM BETWEEN BEAM SEATS	HORIZ
S 5 03	154		14 - 5	X		ABUT DIAPHRAGM STIRRUPS	VERT
S 5 04	146		8 - 7	X		ABUT DIAPHRAGM TO SLAB TIES	VERT
S 5 05	36		11 - 11	X		ABUT DIAPHRAGM STIRRUPS BETWEEN FLANGES	VERT
S 6 06	80		6 - 1			ABUT DIAPHRAGM FF	HORIZ
S 6 07	20		43 - 2	X		ABUT DIAPHRAGM BF	HORIZ
S 5 08	36		6 - 0			ABUT DIAPHRAGM THRU GIRDERS	HORIZ
S 5 09	8		9 - 4	X		ABUT DIAPHRAGM TO SLAB TIES AT ENDS	VERT
S 6 10	2		5 - 9	X		ABUT DIAPHRAGM - ENDS	HORIZ
S 6 11	2		10 - 1	X		WEST ABUT DIAPHRAGM - NORTH END	HORIZ
S 6 12	1		10 - 0	X		WEST ABUT DIAPHRAGM - SOUTH END	HORIZ
S 6 13	2		11 - 1	X		WEST ABUT DIAPHRAGM - SOUTH END	HORIZ
S 6 14	2		7 - 11	X		EAST ABUT DIAPHRAGM - NORTH END	HORIZ
S 6 15	2		7 - 11	X		EAST ABUT DIAPHRAGM - SOUTH END	HORIZ
S 4 16	8		2 - 8			ABUT DIAPHRAGM ENDS	VERT
S 4 17	4		13 - 10	X		ABUT DIAPHRAGM AT BUMP OUT	VERT
S 5 18	112		10 - 8	X		PIER DIAPHRAGM STIRRUPS	VERT
S 5 19	32		8 - 5	X		PIER DIAPHRAGM STIRRUPS BETWEEN FLANGES	VERT
S 4 20	32		6 - 1			PIER DIAPHRAGM	HORIZ
S 4 21	128		5 - 0			PIER DIAPHRAGM	HORIZ
⚠ S 5 22	30		19 - 3		X	SLAB BOTTOM - AT SW QUADRANT	TRANS
⚠ S 5 23	27		19 - 1		X	SLAB BOTTOM - AT NW QUADRANT	TRANS
S 5 24	1054		36 - 6			SLAB TOP & BOTTOM	TRANS
⚠ S 5 25	26		18 - 7		X	SLAB BOTTOM - AT SE QUADRANT	TRANS
⚠ S 5 26	29		18 - 8		X	SLAB BOTTOM - AT NE QUADRANT	TRANS
⚠ S 5 27	29		19 - 5		X	SLAB TOP - AT SW QUADRANT	TRANS
⚠ S 5 28	27		18 - 6		X	SLAB TOP - AT NW QUADRANT	TRANS
⚠ S 5 29	26		19 - 2		X	SLAB TOP - AT SE QUADRANT	TRANS
⚠ S 5 30	29		19 - 4		X	SLAB TOP - AT NE QUADRANT	TRANS
S 5 31	289		5 - 6	X		SLAB TOP - AT NORTH EDGE	TRANS
S 5 32	291		6 - 3	X		SLAB TOP - AT SOUTH EDGE	TRANS
S 4 33	2		44 - 2	X		SLAB TOP & BOTTOM - SPAN 1 AT NORTH EDGE	LONGIT
S 4 34	2		45 - 5	X		SLAB BOTTOM - SPAN 1 AT SOUTH EDGE	LONGIT
S 4 35	1		8 - 3			SLAB BOTTOM - AT SW QUADRANT	LONGIT
S 4 36	1		15 - 8			SLAB BOTTOM - AT SW QUADRANT	LONGIT
S 4 37	1		20 - 10			SLAB BOTTOM - AT SW QUADRANT	LONGIT
S 4 38	1		36 - 6			SLAB BOTTOM - AT SW QUADRANT	LONGIT
S 4 39	2		28 - 4			SLAB BOTTOM - AT SW QUADRANT	LONGIT
S 4 40	535		42 - 8			SLAB BOTTOM	LONGIT
S 4 41	1		25 - 0	X		SLAB TOP - SPAN 1 AT SOUTH EDGE	LONGIT
S 9 42	1		46 - 9	X		SLAB TOP - SPAN 1 AT SOUTH EDGE	LONGIT
S 4 43	1		4 - 6			SLAB TOP - AT SW QUADRANT	LONGIT
S 4 44	1		12 - 4			SLAB TOP - AT SW QUADRANT	LONGIT
S 4 45	1		20 - 0			SLAB TOP - AT SW QUADRANT	LONGIT
S 4 46	1		30 - 3			SLAB TOP - AT SW QUADRANT	LONGIT
S 9 47	1		28 - 9			SLAB TOP - AT SW QUADRANT	LONGIT
S 4 48	106		27 - 10			SLAB TOP - SPANS 1 & 3	LONGIT
S 4 49	106		23 - 10			SLAB TOP - SPANS 1 & 3	LONGIT
S 9 50	212		59 - 8			SLAB TOP - OVER PIERS	LONGIT
S 4 51	106		42 - 0			SLAB TOP - SPAN 2	LONGIT
S 5 52	5		4 - 7	X		LF & HF BARRIER ANCHOR - AT ENDS	VERT
S 5 53	624		4 - 2	X		LF & HF BARRIER ANCHOR	VERT
S 5 54	316		4 - 10	X		LF BARRIER STIRRUP	VERT
S 5 55	25		43 - 5			LF BARRIER	LONGIT
S 5 56	313		6 - 6	X		HF BARRIER STIRRUP	VERT
S 8 57	40		44 - 5			HF BARRIER	LONGIT
S 4 58	157		3 - 2	X		HF BARRIER STIRRUP OVER STONE	VERT
S 4 59	10		42 - 10			HF BARRIER OVER STONE	LONGIT
S 5 60	3		11 - 1	X		A BARRIER ANCHOR - AT ENDS	VERT
S 5 61	206		8 - 4	X		A BARRIER ANCHOR	VERT
S 4 62	50		42 - 10			A BARRIER	LONGIT
S 4 63	140		3 - 8	X		A BARRIER STIRRUP OVER STONE	VERT
S 6 64	1		7 - 11	X		WEST ABUT DIAPHRAGM - NORTH END	HORIZ

BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

ALL REINFORCING BARS ARE ENGLISH.

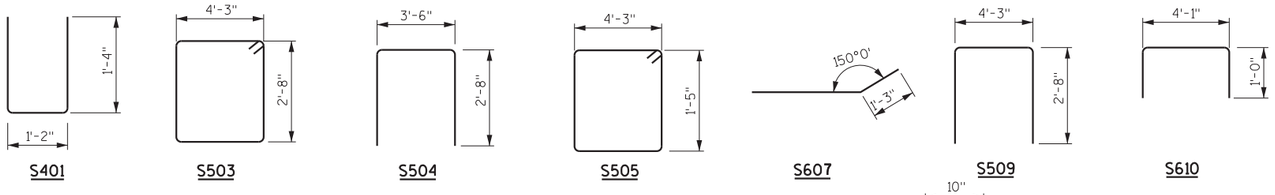
THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

⚠ AVERAGE LENGTH OF BAR SERIES USED FOR DETERMINING BAR WEIGHT ONLY. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

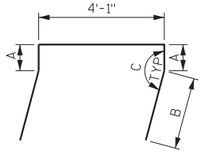
ELEVATIONS AT ℄ GIRDERS

SPAN POINT	NORTH EDGE STATION	NORTH EDGE ELEVATION	GIRDER 1 TD	GIRDER 1 TG	GIRDER 2 TD	GIRDER 2 TG	INSIDE FACE OF 'HF' ELEVATION	GIRDER 3 TD	GIRDER 3 TG	GIRDER 4 TD	GIRDER 4 TG	GIRDER 5 TD	GIRDER 5 TG	CENTERLINE ELEVATION	GIRDER 6 TD	GIRDER 6 TG	GIRDER 7 TD	GIRDER 7 TG	GIRDER 8 TD	GIRDER 8 TG	GIRDER 9 TD	GIRDER 9 TG	SOUTH EDGE STATION	SOUTH EDGE ELEVATION
W ABUT	1098+70.32	683.23	683.26	682.31	683.36	682.41	683.41	683.46	682.51	683.56	682.60	683.65	682.69	683.72	683.70	682.74	683.47	682.52	683.24	682.29	683.00	682.05	1098+25.47	682.92
0.1	1098+75.68	683.29	683.32		683.43		683.47	683.53		683.63		683.72		683.80	683.77		683.54		683.31		683.08		1098+31.46	683.00
0.2	1098+81.04	683.34	683.38		683.49		683.53	683.60		683.70		683.80		683.88	683.84		683.62		683.39		683.15		1098+37.46	683.08
0.3	1098+86.40	683.39	683.43		683.54		683.59	683.66		683.76		683.87		683.95	683.91		683.69		683.46		683.23		1098+43.46	683.17
0.4	1098+91.76	683.44	683.47		683.60		683.65	683.71		683.82		683.93		684.01	683.98		683.76		683.53		683.31		1098+49.46	683.25
0.5	1098+97.12	683.49	683.52		683.64		683.70	683.76		683.88		683.99		684.08	684.04		683.82		683.60		683.38		1098+55.46	683.33
0.6	1099+02.61	683.53	683.56		683.69		683.74	683.81		683.93		684.05		684.14	684.10		683.88		683.67		683.45		1098+61.45	683.40
0.7	1099+08.24	683.57	683.59		683.73		683.79	683.85		683.98		684.10		684.19	684.15		683.94		683.73		683.51		1098+67.45	683.47
0.8	1099+13.88	683.60	683.63		683.76		683.83	683.89		684.02		684.15		684.24	684.21		684.00		683.79		683.58		1098+73.45	683.54
0.9	1099+19.51	683.63	683.66		683.79		683.86	683.93		684.06		684.19		684.29	684.26		684.05		683.85		683.64		1098+79.45	683.60
PIER 1	1099+25.14	683.66	683.68	682.72	683.82	682.86	683.90	683.96	683.00	684.09	683.14	684.23	683.27	684.34	684.30	683.34	684.10	683.14	683.90	682.94	683.69	682.74	1098+85.45	683.66
0.1	1099+34.14	683.70	683.72		683.87		683.94	684.01		684.15		684.28		684.40	684.37		684.17		683.97		683.77		1098+94.77	683.74
0.2	1099+43.14	683.73	683.75		683.90		683.98	684.05		684.19		684.33		684.45	684.42		684.23		684.04		683.84		1099+03.95	683.81
0.3	1099+52.14	683.74	683.77		683.92		684.00	684.08		684.22		684.37		684.49	684.46		684.28		684.09		683.90		1099+12.96	683.87
0.4	1099+61.14	683.75	683.78		683.94		684.02	684.09		684.25		684.40		684.53	684.50		684.32		684.13		683.95		1099+21.97	683.92
0.5	1099+70.14	683.75	683.78		683.94		684.03	684.10		684.26		684.42		684.55	684.52		684.35		684.17		683.99		1099+30.98	683.96
0.6	1099+79.14	683.74	683.77		683.94		684.03	684.11		684.27		684.43		684.56	684.54		684.37		684.19		684.02		1099+39.98	683.99
0.7	1099+88.14	683.72	683.75		683.92		684.02	684.10		684.27		684.43		684.57	684.54		684.38		684.21		684.04		1099+48.99	684.02
0.8	1099+97.14	683.69	683.72		683.90		684.00	684.08		684.25		684.42		684.57	684.54		684.38		684.22		684.05		1099+58.00	684.03
0.9	1100+06.14	683.66	683.68		683.87		683.97	684.05		684.23		684.41		684.55	684.53		684.37		684.21		684.05		1099+67.01	684.03
PIER 2	1100+15.14	683.61	683.64	682.68	683.83	682.87	683.93	684.01	683.05	684.20	683.24	684.38	683.42	684.53	684.50	683.55	684.35	683.40	684.20	683.24	684.05	683.09	1099+76.02	684.02
0.1	1100+20.74	683.57	683.60		683.80		683.90	683.99		684.17		684.36		684.51	684.49		684.34		684.19		684.04		1099+81.62	684.01
0.2	1100+26.34	683.53	683.57		683.76		683.86	683.95		684.14		684.33		684.49	684.46		684.32		684.17		684.02		1099+87.22	684.00
0.3	1100+31.94	683.49	683.52		683.72		683.83	683.92		684.11		684.30		684.46	684.44		684.30		684.15		684.01		1099+92.82	683.98
0.4	1100+37.54	683.45	683.48		683.68		683.79	683.88		684.08		684.27		684.43	684.41		684.27		684.13		683.99		1099+98.42	683.96
0.5	1100+43.14	683.40	683.43		683.63		683.74	683.84		684.04		684.23		684.40	684.37		684.24		684.10		683.96		1100+04.02	683.94
0.6	1100+48.74	683.35	683.38		683.59		683.69	683.79		683.99		684.19		684.36	684.34		684.21		684.07		683.93		1100+09.62	683.91
0.7	1100+54.34	683.29	683.32		683.53		683.64	683.74		683.95		684.15		684.32	684.30		684.17		684.04		683.90		1100+15.22	683.88
0.8	1100+59.94	683.23	683.26		683.48		683.59	683.69		683.90		684.10		684.27	684.25		684.13		684.00		683.87		1100+20.82	683.85
0.9	1100+65.54	683.16	683.20		683.42		683.53	683.63		683.84		684.05		684.22	684.20		684.08		683.96		683.83		1100+26.42	683.81
E ABUT	1100+71.14	683.10	683.13	682.17	683.35	682.40	683.47	683.57	682.62	683.78	682.83	684.00	683.04	684.17	684.15	683.20	684.03	683.08	683.91	682.96	683.79	682.83	1100+32.02	683.77

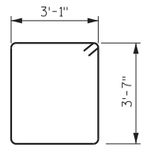
TD = TOP OF DECK
TG = TOP OF GIRDER



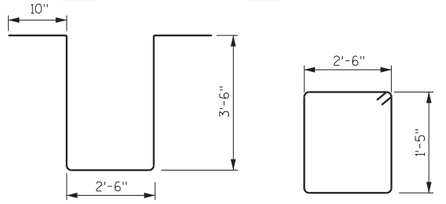
MARK	DIM "A"	DIM "B"	ANGLE "C"
S611	1'-2"	2'-0"	147° 50'
S612	1'-3"	1'-11"	143° 15'
S613	1'-3"	2'-6"	143°15'
S614	1'-2"	11"	150° 00'
S615	1'-3"	10"	150° 00'
S664	1'-2"	11"	147° 50'



S611, S612, S613, S614, S615, S664

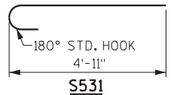


S417

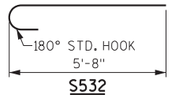


S518

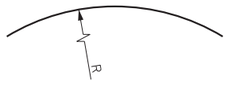
S519



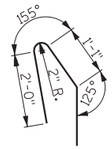
S531



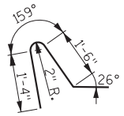
S532



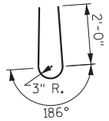
S433, S434, S441, S942
R=841'-6" (S433)
R= 771'-10" (S434, S441, S942)



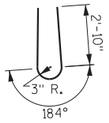
S552



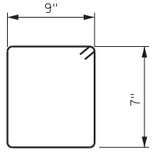
S553



S554



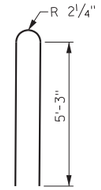
S556



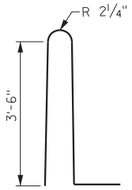
S458

BAR SERIES ⚠

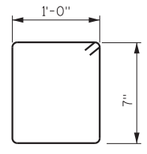
MARK	NO. REQUIRED	LENGTH
S522	1 SERIES OF 30	2'-2" TO 36'-4"
S523	1 SERIES OF 27	3'-7" TO 34'-6"
S525	1 SERIES OF 26	3'-3" TO 33'-11"
S526	1 SERIES OF 29	1'-6" TO 35'-10"
S527	1 SERIES OF 29	3'-0" TO 35'-9"
S528	1 SERIES OF 27	3'-1" TO 33'-11"
S529	1 SERIES OF 26	3'-10" TO 34'-6"
S530	1 SERIES OF 29	2'-1" TO 36'-6"



S560



S561



S463

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

ELEVATION TABLE & BILL OF BARS

SHEET 28 OF 39
352

8

8

STATE PROJECT NUMBER

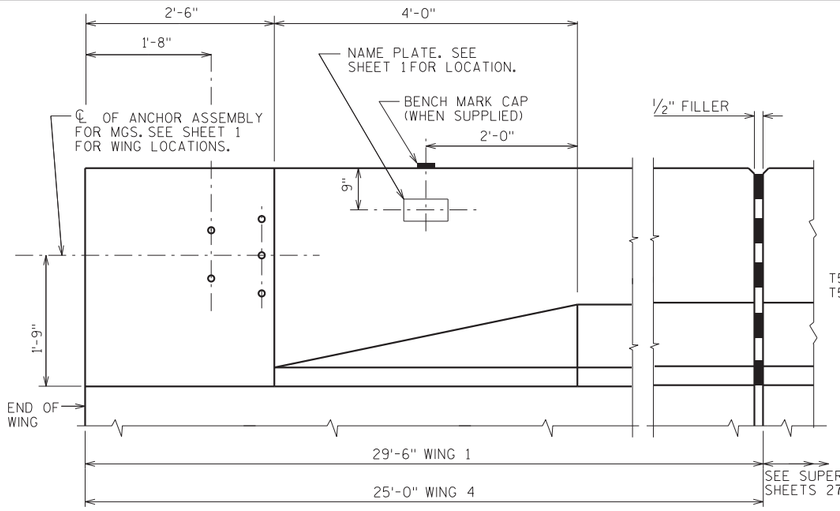
9210-11-71

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

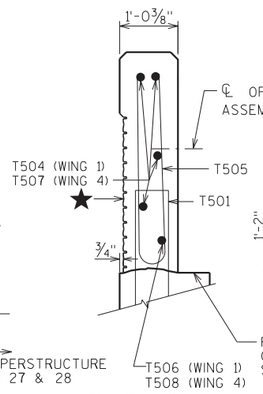
◪ T502 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE T502 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ T501 AND T503 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.

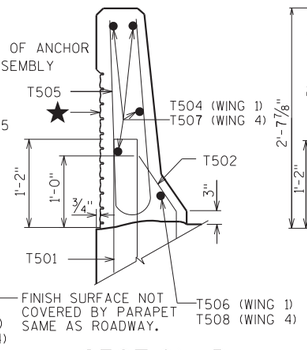
★ ARCHITECTURAL SURFACE TREATMENT (5/8" MAXIMUM RELIEF). SEE SHEET 39 FOR DETAILS.



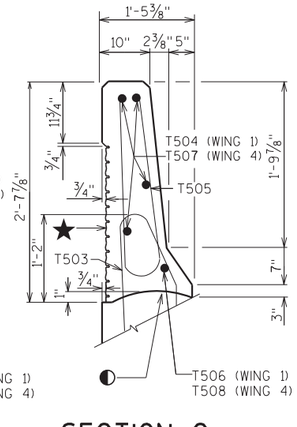
INSIDE ELEVATION



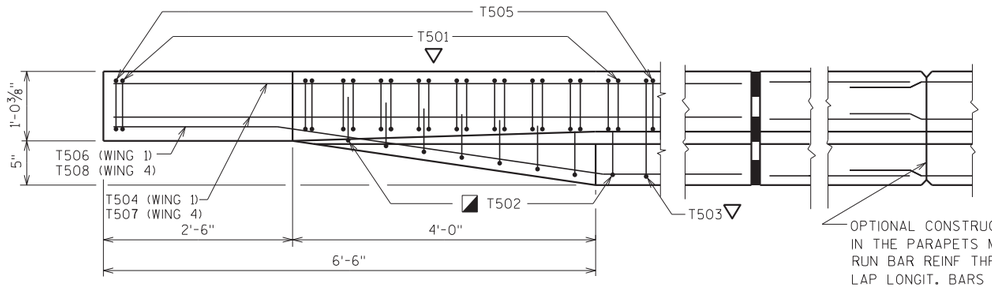
SECTION A



SECTION B



SECTION C



PLAN

OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9" MIN. JOINT SPACING OF 80'-0" DEFINE CONST. JOINT WITH A 3/4" 'V' GROOVE.

WEST ABUTMENT COATED= 660 LBS.
WEST ABUTMENT UNCOATED= 0 LBS.
EAST ABUTMENT COATED= 440 LBS.
EAST ABUTMENT UNCOATED= 0 LBS.

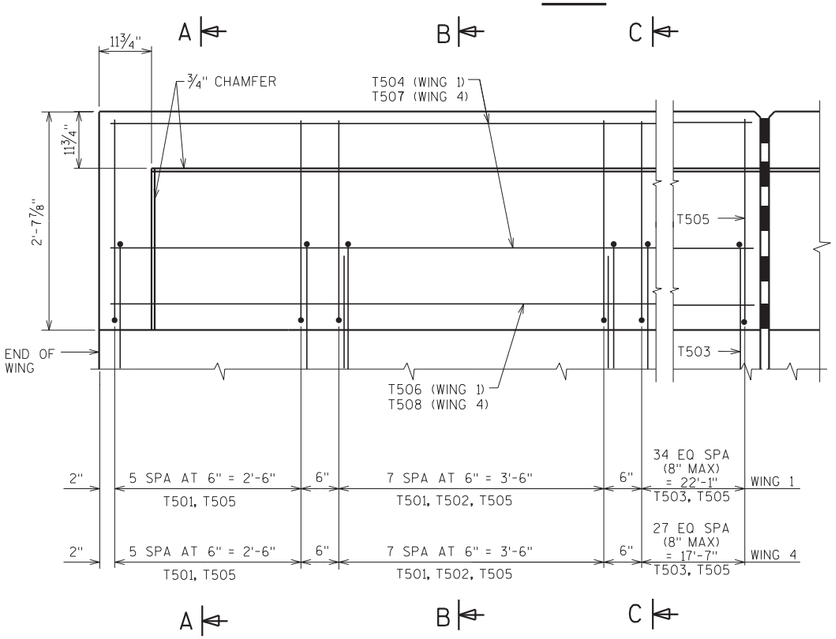
BILL OF BARS
LF PARAPET

MARK	COATED	NO. REQ'D. WEST ABUTMENT	NO. REQ'D. EAST ABUTMENT	LENGTH FT - IN	BENT	BAR SERIES	LOCATION	
T 5 01	X	14	14	4 - 7	X		PARAPET TIE	VERT
T 5 02	X	8	8	2 - 4	X		PARAPET TIE	VERT
T 5 03	X	35	28	4 - 7	X		PARAPET TIE	VERT
T 5 04	X	4		29 - 1			PARAPET - LONGITUDINAL WING 1	HORIZ
T 5 05	X	49	42	4 - 10	X		PARAPET STIRRUP	VERT
T 5 06	X	1		29 - 1	X		PARAPET - LONGITUDINAL WING 1	HORIZ
T 5 07	X		4	24 - 7			PARAPET - LONGITUDINAL WING 4	HORIZ
T 5 08	X		1	24 - 7	X		PARAPET - LONGITUDINAL WING 4	HORIZ

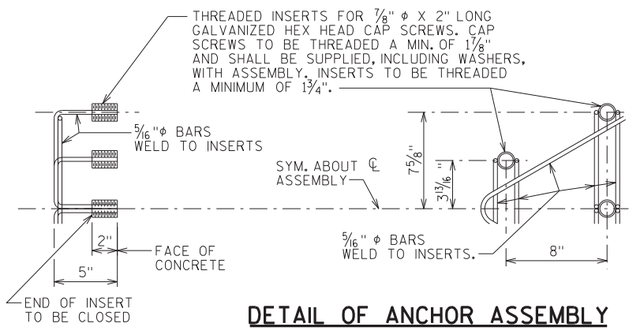
BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

ALL REINFORCING BARS ARE ENGLISH.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.



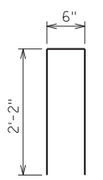
OUTSIDE ELEVATION



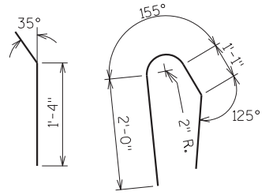
DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

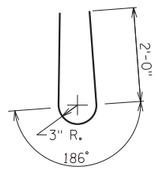
ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.



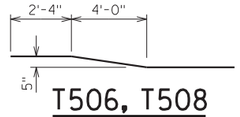
T501



T502 T503



T505



T506, T508

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

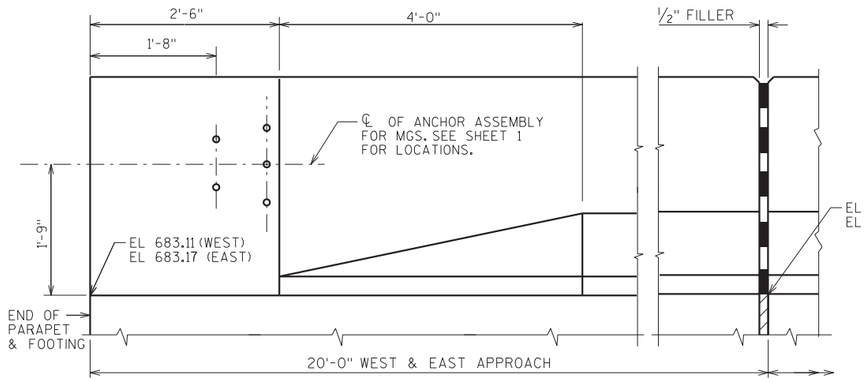
DRAWN BY TAV | PLANS CK'D. GAR

SLOPED FACE PARAPET TYPE 'LF' (MODIFIED)

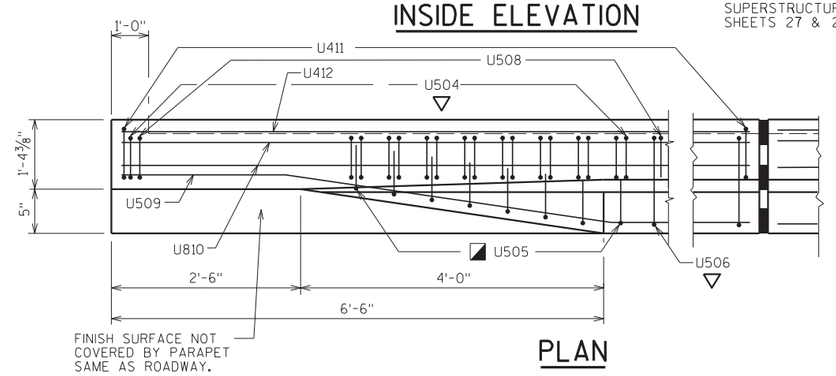
SHEET 29 OF 39
353

8

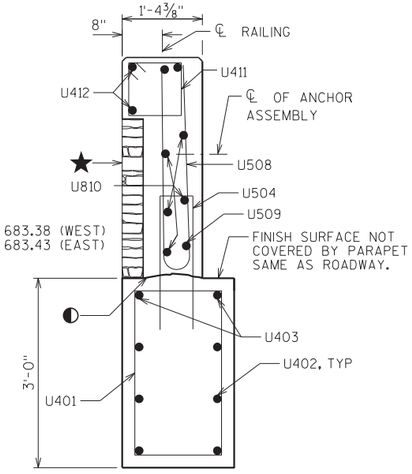
8



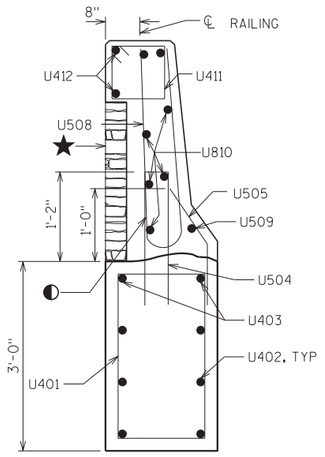
INSIDE ELEVATION



PLAN



SECTION A



SECTION B

BILL OF BARS

STATE PROJECT NUMBER

9210-11-71

WEST ABUTMENT COATED= 1090 LBS.
WEST ABUTMENT UNCOATED= 0 LBS.
EAST ABUTMENT COATED= 1090 LBS.
EAST ABUTMENT UNCOATED= 0 LBS.

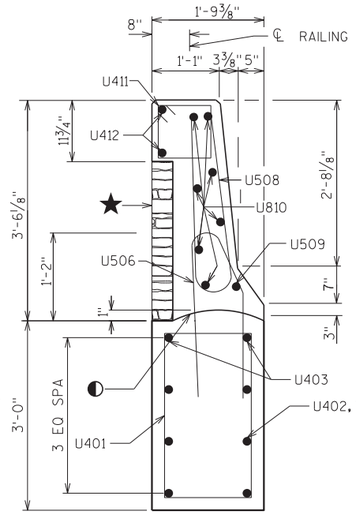
BILL OF BARS
HF PARAPET

MARK	COATED	NO. REQ'D. WEST ABUTMENT	NO. REQ'D. EAST ABUTMENT	LENGTH FT - IN	BENT	BAR SERIES	LOCATION	
U 4 01	X	20	20	8 - 6	X		FOOTING STIRRUP	VERT
U 4 02	X	6	6	18 - 10			FOOTING - LONGITUDINAL	HORIZ
U 4 03	X	2	2	19 - 7			FOOTING - LONGITUDINAL AT TOP	HORIZ
U 5 04	X	14	14	4 - 7	X		PARAPET TIE	VERT
U 5 05	X	8	8	2 - 4	X		PARAPET TIE	VERT
U 5 06	X	19	19	4 - 7	X		PARAPET TIE	VERT
U 5 07	X	1	1	5 - 4	X		PARAPET TIE AT PAVING NOTCH	VERT
U 5 08	X	34	34	6 - 6	X		PARAPET STIRRUP	VERT
U 5 09	X	1	1	19 - 7	X		PARAPET - LONGITUDINAL	HORIZ
U 8 10	X	7	7	19 - 7			PARAPET - LONGITUDINAL	HORIZ
U 4 11	X	17	17	3 - 2	X		PARAPET AT TOP	VERT
U 4 12	X	2	2	19 - 7			PARAPET - LONGITUDINAL AT 3F	HORIZ
U 4 13	X	2	2	3 - 2			PARAPET - BF AT END	VERT

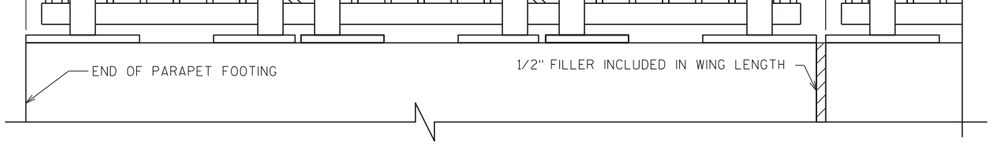
BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

ALL REINFORCING BARS ARE ENGLISH.

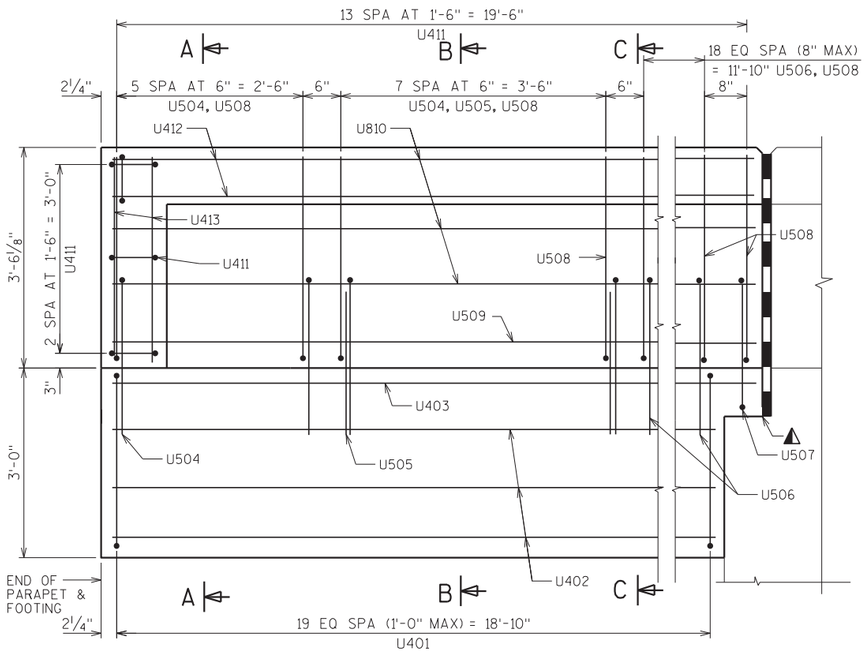
THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.



SECTION C



ELEVATION SHOWING RAILING POST SPACING



OUTSIDE ELEVATION

(SHARED PATH SIDE)

SEE SHEET 29 FOR ANCHOR ASSEMBLY DETAIL.

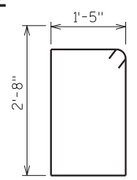
△ STEEL TROWEL HORIZONTAL SURFACE OF PAVING NOTCH. PLACE MULTIPLE LAYERS OF POLYETHELENE SHEETS BETWEEN PARAPET FOOTING AND HORIZONTAL SURFACE OF PAVING NOTCH. TOTAL THICKNESS OF SHEETS SHALL BE AT LEAST 0.03".

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

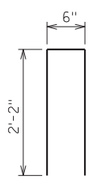
◪ U505 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE U505 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ U504 AND U506 BARS TO BE TIED TO FOOTING STEEL BEFORE FOOTING IS POURED.

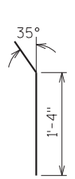
★ "STONE VENEER 4-INCH". SEE SHEET 39 FOR DETAILS.



U401



U504



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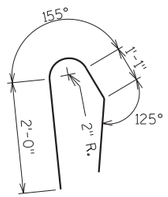
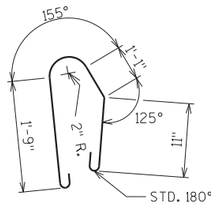


U506



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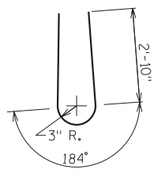

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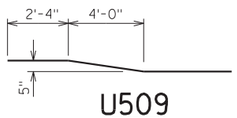
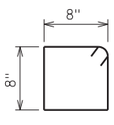


U509



U411

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

SLOPED FACE PARAPET TYPE 'HF' (MODIFIED)

SHEET 30 OF 39
354

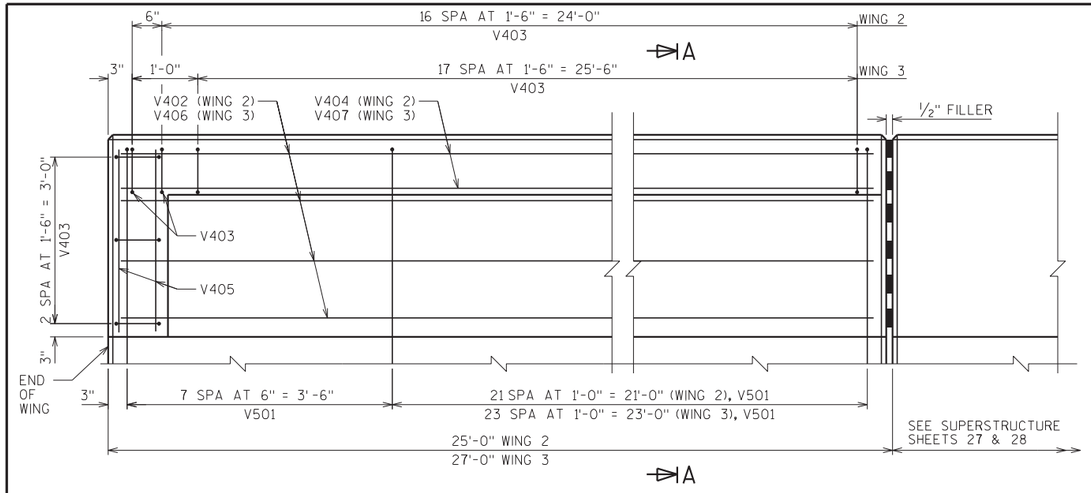
8

8

FILE NAME : X:±23046-70±08037±TECH±CADD±dwg±080130_par_hf.dgn PLOT DATE : 11/3/2011 PLOT BY : 1258MJB PLOT SCALE : 8:0 ":" / in.

STATE PROJECT NUMBER

9210-11-71



BACK FACE ELEVATION OF PARAPET

WEST ABUTMENT COATED= 460 LBS.
WEST ABUTMENT UNCOATED= 0 LBS.
EAST ABUTMENT COATED= 320 LBS.
EAST ABUTMENT UNCOATED= 0 LBS.

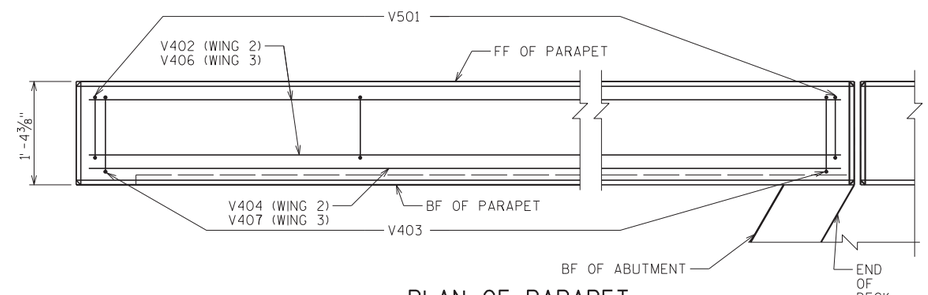
BILL OF BARS
A PARAPET

MARK	COATED	NO. REQ'D. WEST ABUTMENT	NO. REQ'D. EAST ABUTMENT	LENGTH FT - IN	BENT	BAR SERIES	LOCATION	
V 5 01	X	29	31	3 - 4	X		PARAPET TIE	VERT
V 4 02	X	8		24 - 7			PARAPET - LONGITUDINAL WING 2	HORIZ
V 4 03	X	21	22	3 - 0	X		PARAPET AT TOP	VERT
V 4 04	X	2		24 - 7			PARAPET - LONGITUDINAL AT BF WING 2	HORIZ
V 4 06	X		8	23 - 7			PARAPET - LONGITUDINAL AT WING 3	HORIZ
V 4 07	X		2	23 - 7			PARAPET - LONGITUDINAL AT BF WING 3	HORIZ

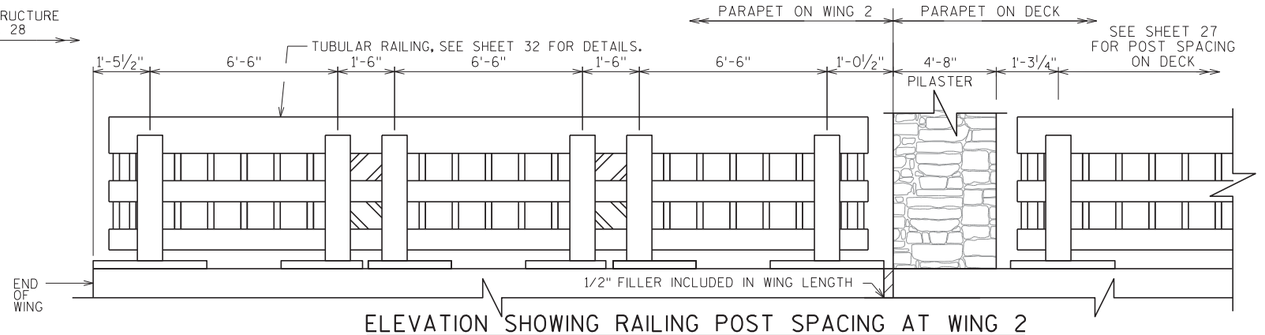
BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

ALL REINFORCING BARS ARE ENGLISH.

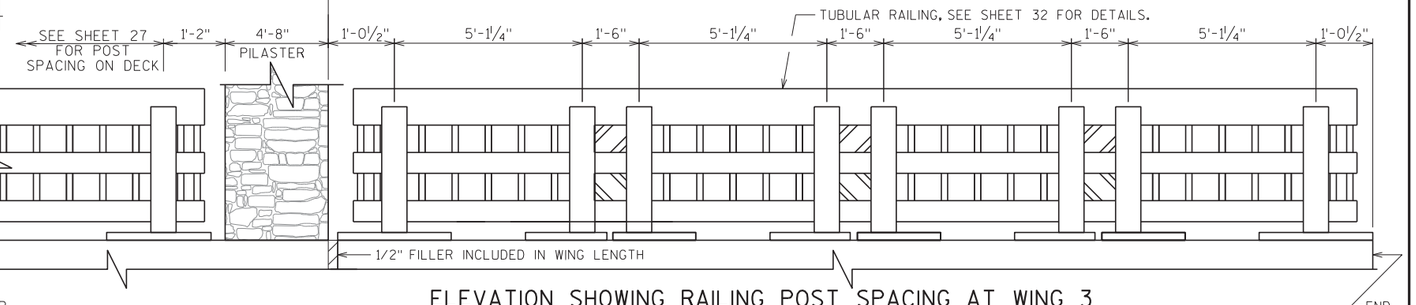
THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.



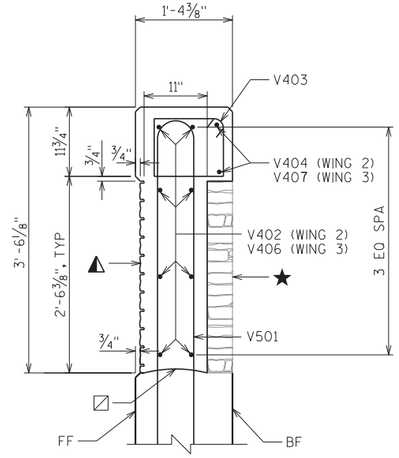
PLAN OF PARAPET



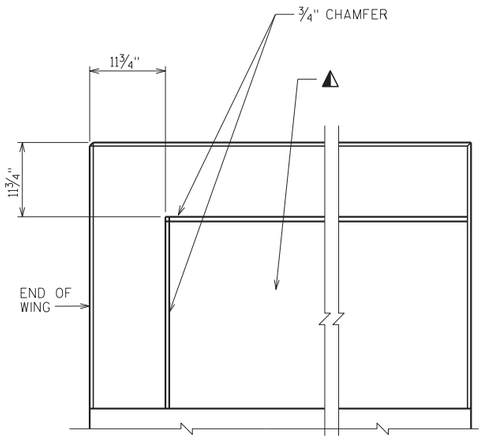
ELEVATION SHOWING RAILING POST SPACING AT WING 2



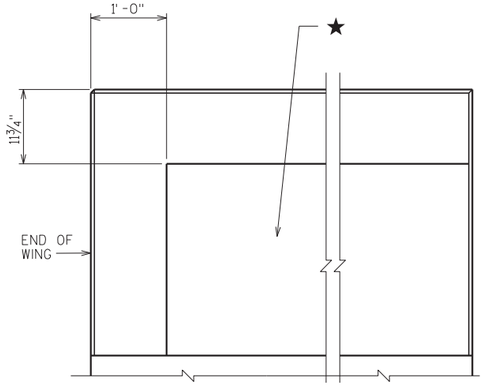
ELEVATION SHOWING RAILING POST SPACING AT WING 3



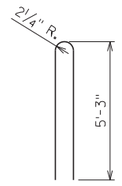
SECTION A-A



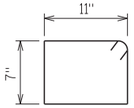
FRONT FACE OF PARAPET



BACK FACE OF PARAPET



V501



V403

▽ V501 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.

▨ HORIZ. CONST. JOINT - STRIKE OFF AS SHOWN AND LEAVE ROUGH.

◭ ARCHITECTURAL SURFACE TREATMENT (5/8" MAXIMUM RELIEF). SEE SHEET 37 FOR DETAILS.

★ "STONE VENEER 4-INCH". SEE SHEET 39 FOR DETAILS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

VERTICAL FACE PARAPET TYPE 'A' (MODIFIED)

SHEET 31 OF 39
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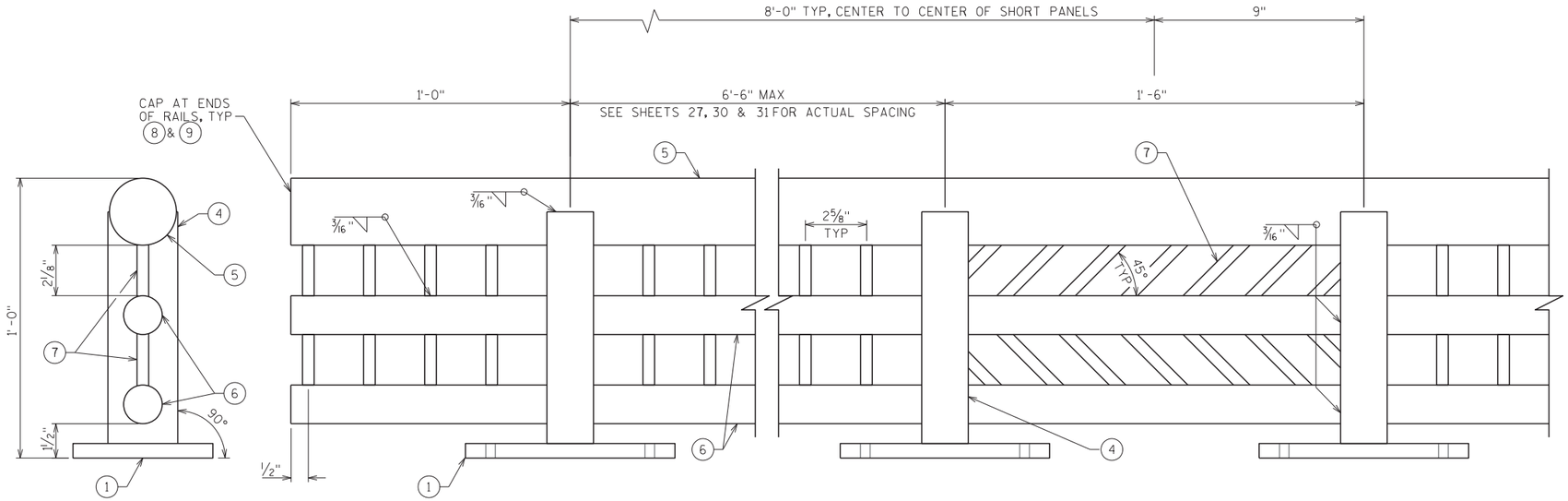
STATE PROJECT NUMBER

9210-11-71

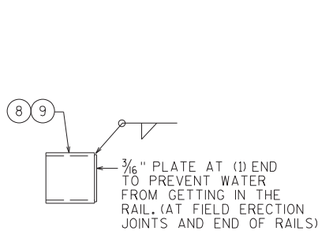


TYPICAL SECTION

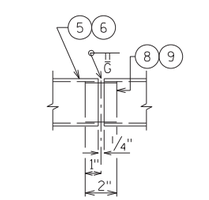
ELEVATION

LEGEND

1. PLATE 5/8" X 6" X 9" WITH 3/4" X 1 1/2" SLOTTED HOLES.
2. 1/4" X 5" X 8" ANCHOR PLATE WITH 11/16 " Φ HOLES FOR THR'D RODS NO. 3.
3. 5/8" DIA. X 9" LONG, TYPE 316 STAINLESS STEEL THREADED RODS (MIN. TENSILE STRENGTH = 70 KSI) WITH NUT AND WASHERS OF SAME ALLOY GROUP. (ALTERNATE RAIL POST ANCHORAGE - 4 EQUIV. STAINLESS STEEL CONCRETE MASONRY ANCHORS, TYPE S (EPOXY), 5/8" Φ, MINIMUM PULLOUT CAPACITY OF 13 KIPS. EMBED A MIN. OF 7" FOR RAIL POSTS.)
4. STRUCTURAL TUBING 3" X 2" X 3/16". PLACE VERTICAL. WELD TO NO. 1
5. 2 1/2" Φ STANDARD PIPE RAIL (2.875" O.D.). WELD TO NO. 4.
6. 1 1/4" Φ STANDARD PIPE RAIL (1.660" O.D.). WELD TO NO. 4.
7. 1/2" Φ SOLID ROUND BAR PICKETS. WELD TO NO. 4, NO. 5 & NO. 6. PLACE VERTICAL IN LONG PANELS AND AT A 45° ANGLE IN SHORT PANELS.
8. CIRCULAR SLEEVE FABRICATED FROM 2" Φ STANDARD PIPE.
9. CIRCULAR SLEEVE FABRICATED FROM 1" Φ STANDARD PIPE.
10. CIRCULAR SLEEVE FABRICATED FROM 2" Φ STANDARD PIPE. 1'-4" LONG AT FIELD ERECTION JTS.
11. CIRCULAR SLEEVE FABRICATED FROM 1" Φ STANDARD PIPE. 1'-4" LONG AT FIELD ERECTION JTS.

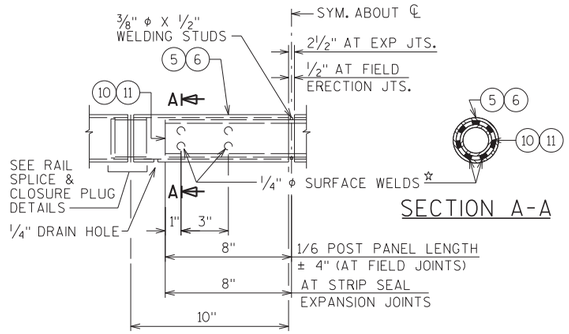


CLOSURE PLUG DETAIL



SHOP RAIL SPLICE DETAIL

(LOCATION MUST BE SHOWN ON SHOP DRAWINGS)



SECTION A-A

FIELD ERECTION JOINT DETAIL

☆MIN. 5/8" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.

NOTES

BID ITEM SHALL BE "TUBULAR RAILING", WHICH SHALL INCLUDE ALL ITEMS SHOWN.

ALL ALUMINUM PLATES, TUBING, PIPES AND BARS SHALL CONFORM A FINISH OF AA-M32C31A31 AS ESTABLISHED BY THE ALUMINUM ASSOCIATION.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

PLATE NO. 1 SHALL CONFORM TO THE REQUIREMENTS OF ASTM B209, ALLOY 6061-T6.

ANCHOR PLATE NO. 2 SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709, GRADE 36.

ALUMINUM STRUCTURAL SHAPES SHALL CONFORM TO THE REQUIREMENTS OF ASTM B308, ALLOY 6061-T6 (NO. 4, 5, 6, 7, 8, 9, 10 & NO. 11).

SHIMS SHALL CONFORM TO SAME MATERIAL AS POST BASE PLATE NO. 1.

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

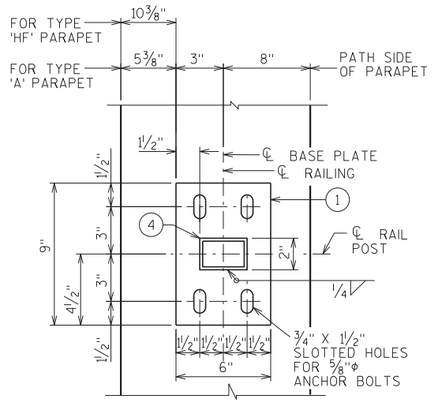
CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTION.

SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT.

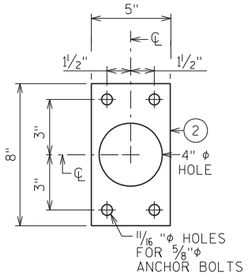
■ FILL BOLT SLOT OPENINGS IN SHIMS AND PLATE NO. 1 AND CAULK AROUND PERIMETER OF PLATE NO. 1 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

1/4"Φ VENT HOLES SHALL BE DRILLED IN RAILS AND POSTS AS REQUIRED TO FACILITATE DRAINAGE. DRAIN HOLES SHOULD BE PLACED IN UNDERSIDE OF RAILS AND IN OPPOSITE SIDE OF POST FROM THE PATH.

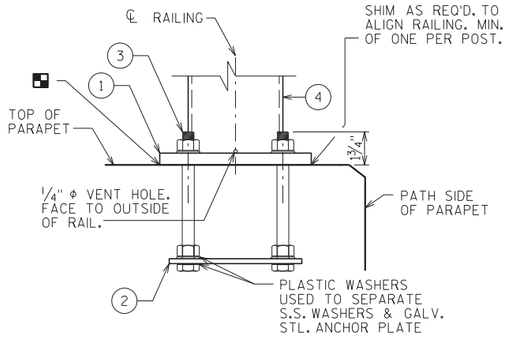
RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE A MINIMUM OF 4 POSTS.



TYPICAL RAIL POST BASE PLATE

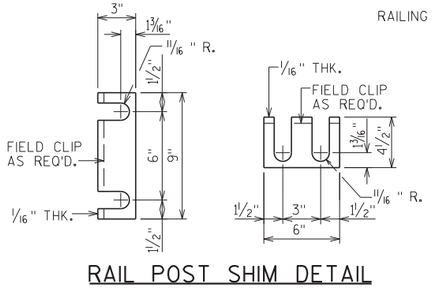


ANCHOR PLATE



ANCHOR BOLTS FOR RAIL POSTS

NOTE: ANCHOR PLATE NOT REQUIRED WHEN TYPE S ANCHORS ARE USED.



RAIL POST SHIM DETAIL

(2 SETS PER POST)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

TUBULAR RAILING

SHEET 32 OF 39
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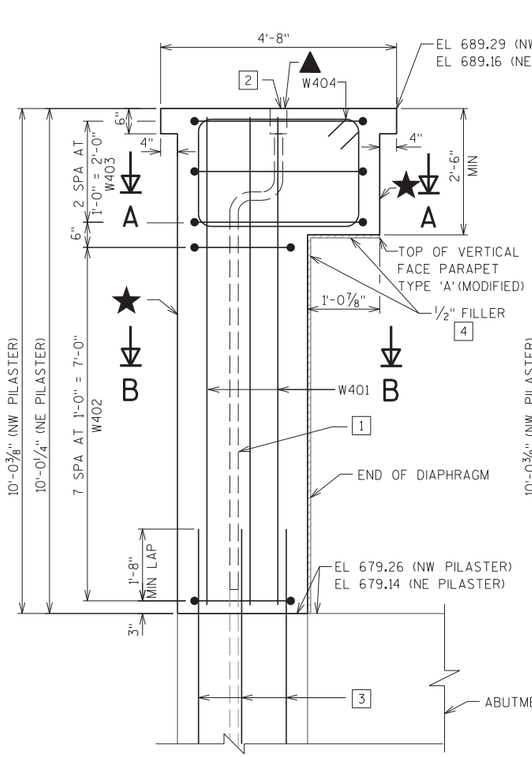
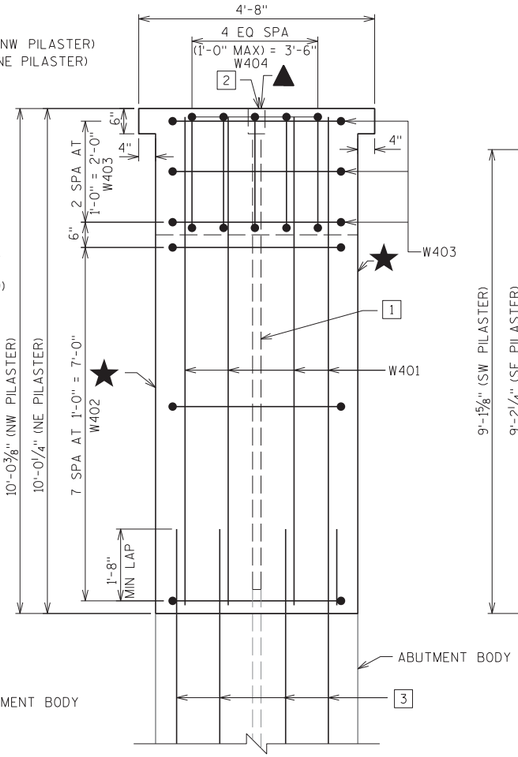
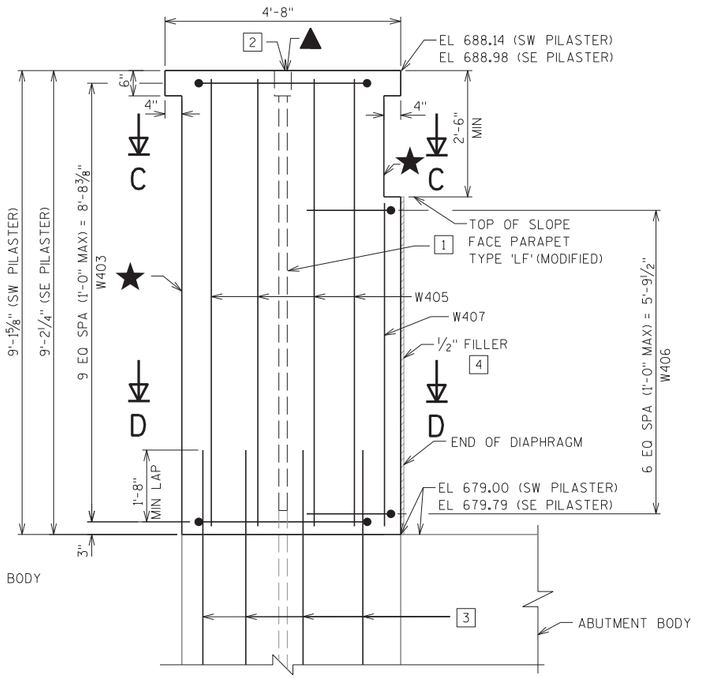


(WEST ELEVATION)

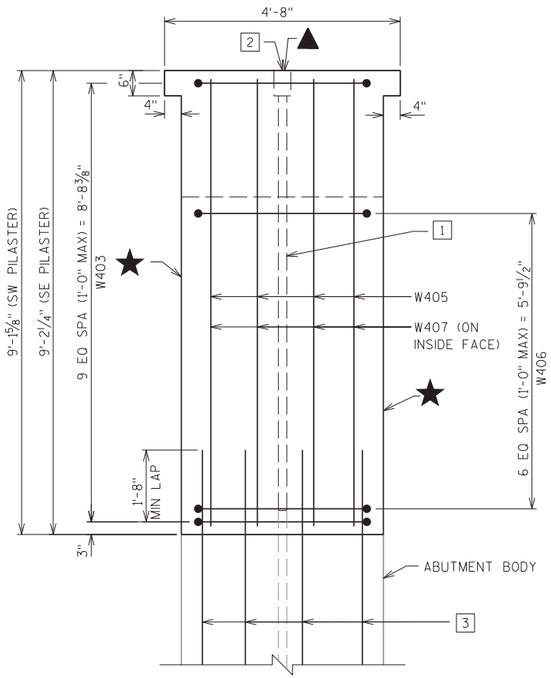


(NORTH ELEVATION)

NORTHWEST AND NORTHEAST PILASTERS

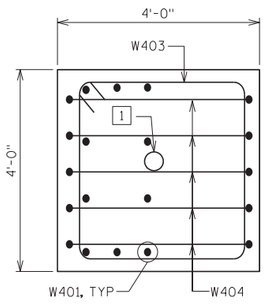


(EAST ELEVATION)

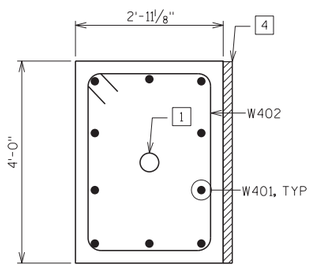


(SOUTH ELEVATION)

SOUTHWEST AND SOUTHEAST PILASTERS



SECTION A-A



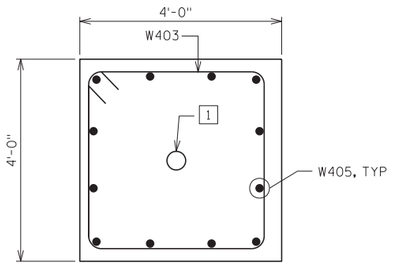
SECTION B-B

NOTES

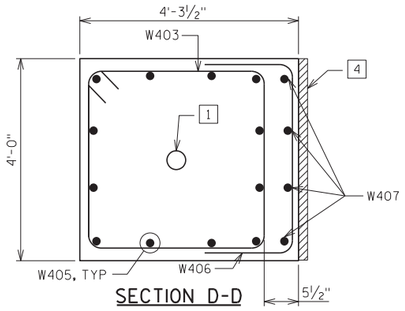
1. "CONDUIT RIGID NONMETALLIC SCHEDULE 40 1-INCH".
2. "4" JUNCTION BOX 6" DEPTH CONCRETE EMBEDDABLE". CENTER IN TOP OF PILASTER FOR LIGHT FIXTURE INSTALLATION.
3. VERTICAL BARS IN ENDS OF ABUTMENTS. SEE ABUTMENT SHEETS FOR DETAILS.
4. 1/2" FILLER BETWEEN PILASTER AND ABUTMENT DIAPHRAGM, DECK AND PARAPET. PLACE ON TOP OF PARAPET AT NORTH PILASTERS. SEAL ALL HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).

★ STONE VENEER 4-INCH NOT SHOWN FOR CLARITY. SEE SHEET 36 FOR DETAILS.

▲ LIGHT FIXTURES ON TOP OF ALL FOUR PILASTERS NOT SHOWN.



SECTION C-C



SECTION D-D

WEST ABUTMENT COATED= 430 LBS.
WEST ABUTMENT UNCOATED= 0 LBS.
EAST ABUTMENT COATED= 430 LBS.
EAST ABUTMENT UNCOATED= 0 LBS.

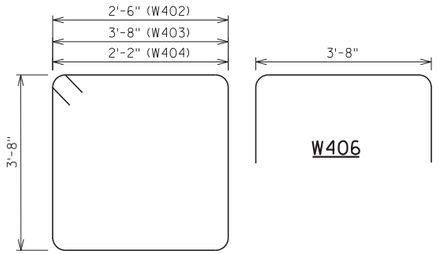
BILL OF BARS
PILASTERS

MARK	COATED	NO. REQ'D. WEST ABUTMENT	NO. REQ'D. EAST ABUTMENT	LENGTH FT - IN	BENT	BAR SERIES	LOCATION	
W 4 01	X	10	10	9 - 8			NORTH PILASTERS	VERT
W 4 02	X	8	8	12 - 10	X		NORTH PILASTER STIRRUPS	HORIZ
W 4 03	X	13	13	15 - 2	X		NORTH & SOUTH PILASTER STIRRUPS	HORIZ
W 4 04	X	5	5	12 - 2	X		NORTH PILASTER STIRRUPS	VERT
W 4 05	X	12	12	8 - 9			SOUTH PILASTER	VERT
W 4 06	X	7	7	8 - 0	X		SOUTH PILASTER TIES	HORIZ
W 4 07	X	4	4	6 - 2			SOUTH PILASTER	VERT

BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

ALL REINFORCING BARS ARE ENGLISH.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.



W402, W403, W404

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

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PILASTER DETAILS

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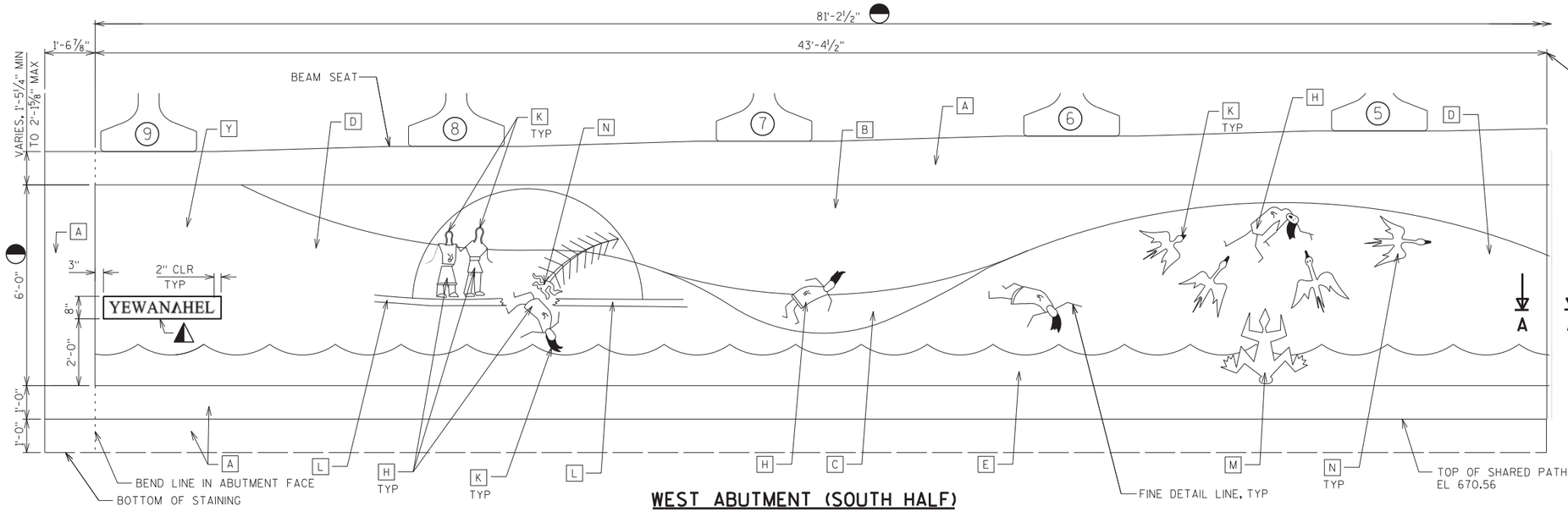
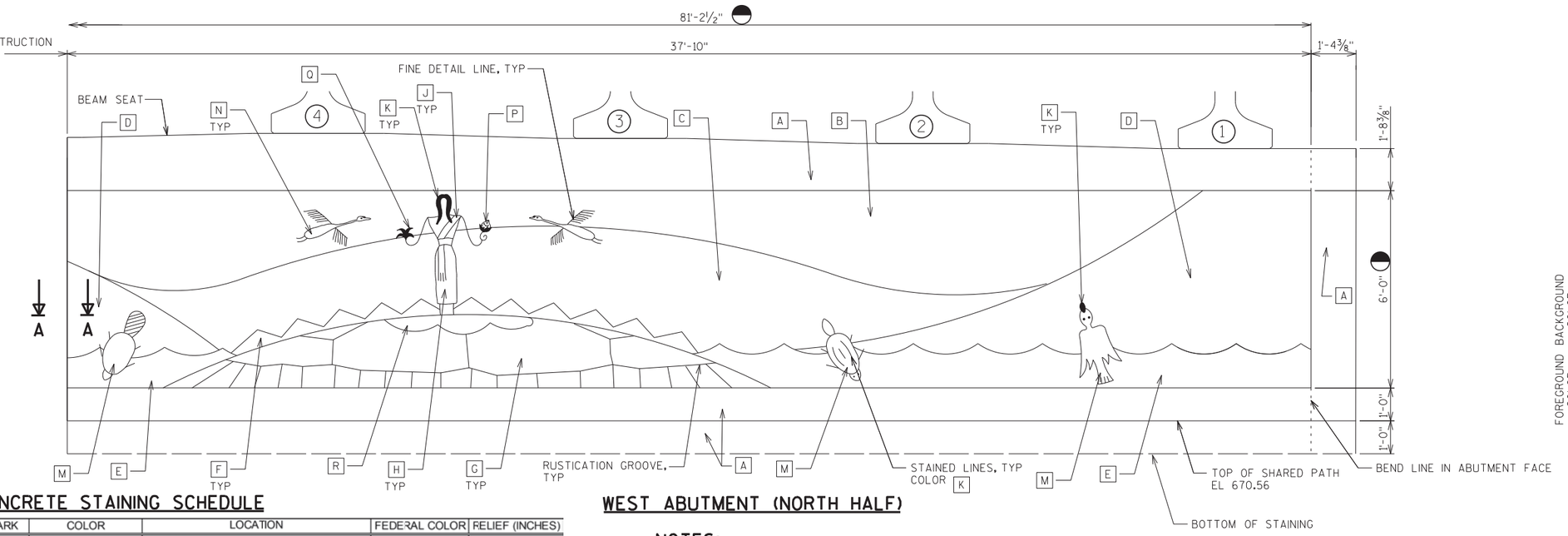
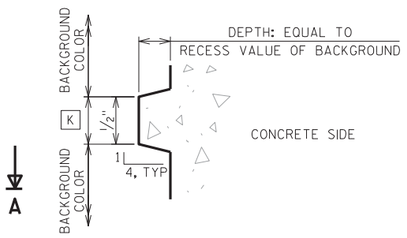


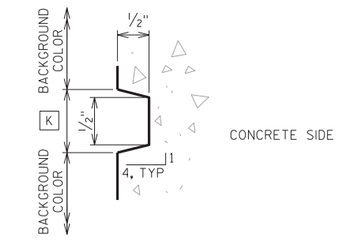
WEST ABUTMENT (SOUTH HALF)



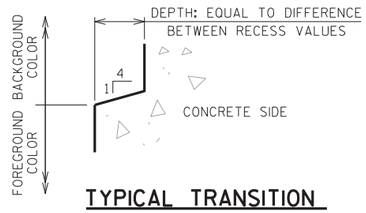
WEST ABUTMENT (NORTH HALF)



TYPICAL SECTION AT FINE DETAIL LINES



TYPICAL SECTION AT RUSTICATION GROOVES



TYPICAL TRANSITION BETWEEN LEVELS

CONCRETE STAINING SCHEDULE

MARK	COLOR	LOCATION	FEDERAL COLOR	RELIEF (INCHES)
A	BASE COLOR	BORDER, END ABUTMENT DIAPHRAGMS	36521	0
B	ACCENT COLOR #1	UPPER SKY	33798	-1.5
C	ACCENT COLOR #2	LOWER SKY	33655	-1.25
D	ACCENT COLOR #3	HILLS	37144	-1.0
E	ACCENT COLOR #4	WATER	25095	-0.5
F	ACCENT COLOR #5	RIDGES	34108	0
G	ACCENT COLOR #6	TURTLE SHELL	34227	0
H	ACCENT COLOR #7	PEOPLE	35550	0
J	ACCENT COLOR #8	SASH	37100	0
K	ACCENT COLOR #9	HAIR, BEAKS, FINE DETAIL LINES, RUSTICATION GROOVES, STAINED LINES	37038	VARIES
L	ACCENT COLOR #10	BRIDGE	30070	0
M	ACCENT COLOR #11	FROG, BEAVER, ANIMALS	33617	0
N	ACCENT COLOR #12	BONES, GEESE, CRANES	37875	0
P	ACCENT COLOR #13	FLOWER	22144	0
Q	ACCENT COLOR #14	PLANT	34230	0
R	ACCENT COLOR #15	MUD	30059	0
Y	ACCENT COLOR #22	ARTIST NAME PROJECTION	37144	-0.5

NOTES:

BORDER STAINING COLOR [A] TO EXTEND 1'-0" BELOW TOP OF SHARED PATH. PAID FOR UNDER BID ITEM "CONCRETE STAINING B-05-0392".

ABUTMENT DIAPHRAGM TO BE STAINED. SEE DETAILS SHEET 39.

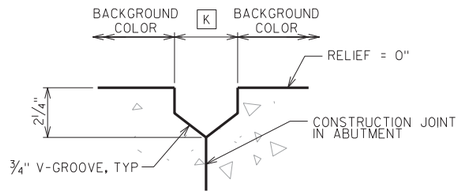
FINISH ON COLORS IS FLAT (LUSTERLESS).

ALL STAINED LINES SHALL BE DEFINED BY A ½" WIDE BY ¼" DEEP RELIEF AND STAINED COLOR [K].

LIMITS OF BID ITEMS "ARCHITECTURAL SURFACE TREATMENT" AND "CONCRETE STAINING MULTICOLOR B-05-0392".

ENGRAVED TEXT (½" DEEP) SHALL BE 5-INCHES TALL. FONT AND NAME SHALL BE AS SHOWN ON THIS SHEET AND IN THE SPECIAL PROVISIONS UNDER BID ITEM "ARCHITECTURAL SURFACE TREATMENT". ENGRAVED PORTION OF THE TEXT SHALL BE STAINED COLOR [K] ON SIDES AND BOTTOM.

(#) INDICATES GIRDER NUMBER



SECTION A-A

(TYPICAL SECTION AT CONSTRUCTION JOINT)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

WEST ABUTMENT AESTHETICS

SHEET 34 OF 39
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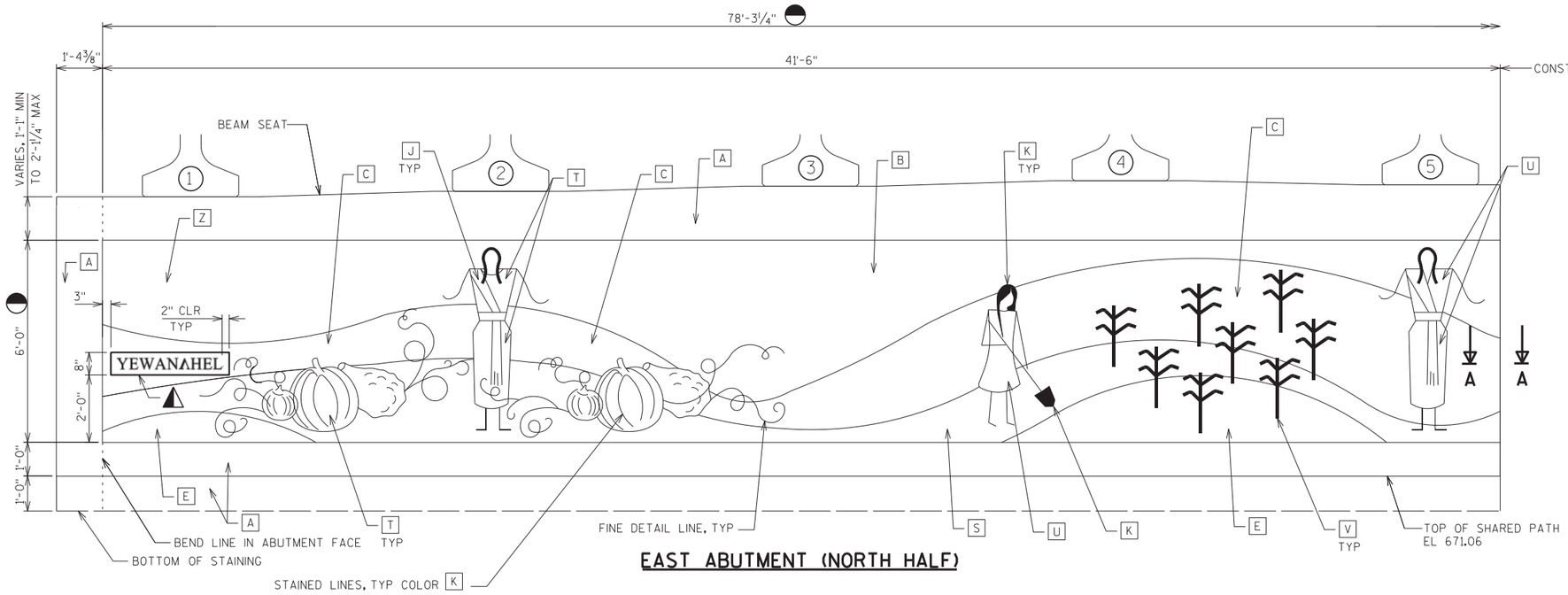
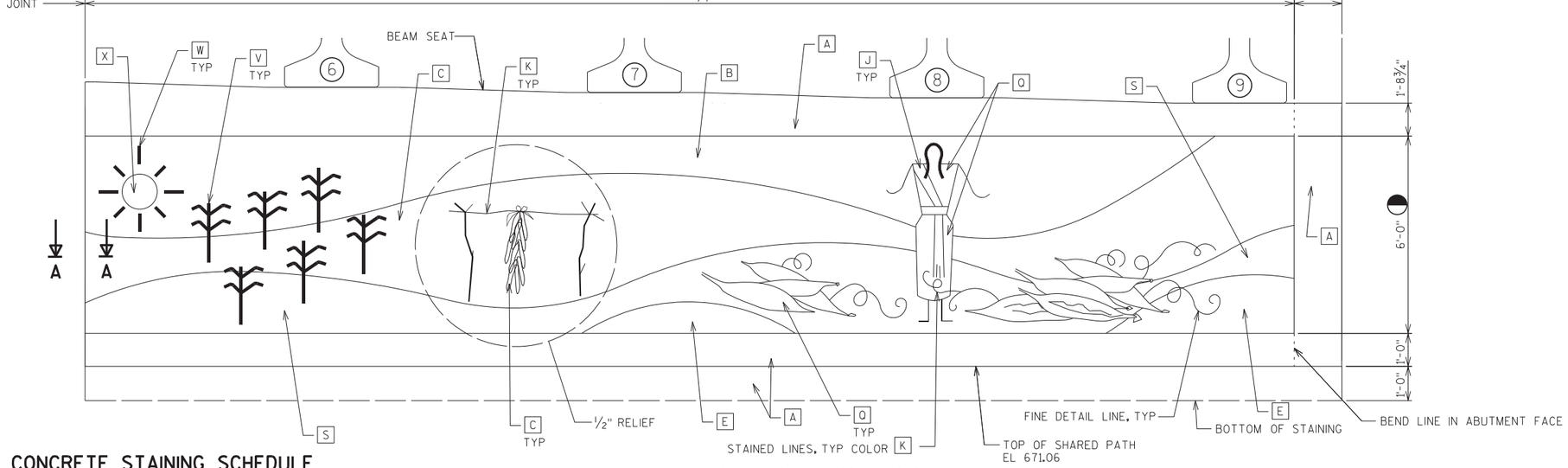
FILE NAME : X:±23046-70±08037±TECH±CADD±dwg±080134_ad_wa.dgn PLOT DATE : 11/3/2011 PLOT BY : 1258MJB PLOT SCALE : 4.0000 sf / in.

STATE PROJECT NUMBER

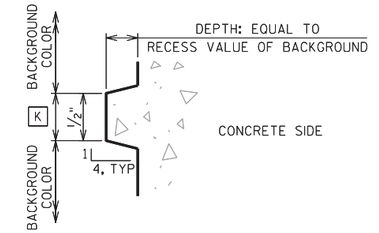
9210-11-71



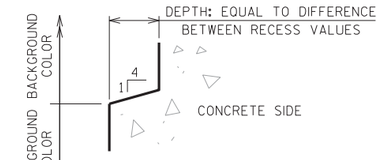
EAST ABUTMENT (NORTH HALF)



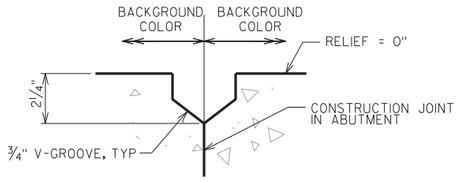
EAST ABUTMENT (SOUTH HALF)



TYPICAL SECTION AT FINE DETAIL LINES



TYPICAL TRANSITION BETWEEN LEVELS



SECTION A-A

(TYPICAL SECTION AT CONSTRUCTION JOINT)

CONCRETE STAINING SCHEDULE

MARK	COLOR	LOCATION	FEDERAL COLOR	RELIEF (INCHES)
A	BASE COLOR	BORDER, END ABUTMENT DIAPHRAGMS	36521	0
B	ACCENT COLOR #1	UPPER SKY	33798	-1.5
C	ACCENT COLOR #2	LOWER SKY	33655	-1.25
E	ACCENT COLOR #4	FRONT HILLS	25095	-0.5
J	ACCENT COLOR #8	SASH	37100	0
K	ACCENT COLOR #9	HAIR, DRYING RACK, FINE DETAIL LINES, STAINED LINES	37038	VARIES
Q	ACCENT COLOR #14	BEAN SISTER, BEANS	34230	0
S	ACCENT COLOR #16	GRASS	34259	-1.0
T	ACCENT COLOR #17	SQUASH SISTER, SQUASH, PUMPKIN	22473	0
U	ACCENT COLOR #18	CORN SISTER, FARMER	33538	0
V	ACCENT COLOR #19	CORN	36165	0
W	ACCENT COLOR #20	SUN RAYS	36165	-1.0
X	ACCENT COLOR #21	SUN	22510	-1.0
Z	ACCENT COLOR #23	ARTIST NAME PROJECTION	33798	-1.0

NOTES:

BORDER STAINING COLOR [A] TO EXTEND 1'-0" BELOW TOP OF SHARED PATH. PAID FOR UNDER BID ITEM "CONCRETE STAINING B-05-0392".

ABUTMENT DIAPHRAGM TO BE STAINED. SEE DETAILS SHEET 39.

FINISH ON COLORS IS FLAT (LUSTERLESS).

ALL STAINED LINES SHALL BE DEFINED BY A ½" WIDE BY ¼" DEEP RELIEF AND STAINED COLOR [K].

LIMITS OF BID ITEMS "ARCHITECTURAL SURFACE TREATMENT" AND "CONCRETE STAINING MULTICOLOR B-05-0392".

ENGRAVED TEXT (½" DEEP) SHALL BE 6-INCHES TALL. FONT AND NAME SHALL BE AS SHOWN ON THIS SHEET AND IN THE SPECIAL PROVISIONS UNDER BID ITEM "ARCHITECTURAL SURFACE TREATMENT". ENGRAVED PORTION OF THE TEXT SHALL BE STAINED COLOR [K] ON SIDES AND BOTTOM.

(#) INDICATES GIRDER NUMBER

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

EAST ABUTMENT AESTHETICS

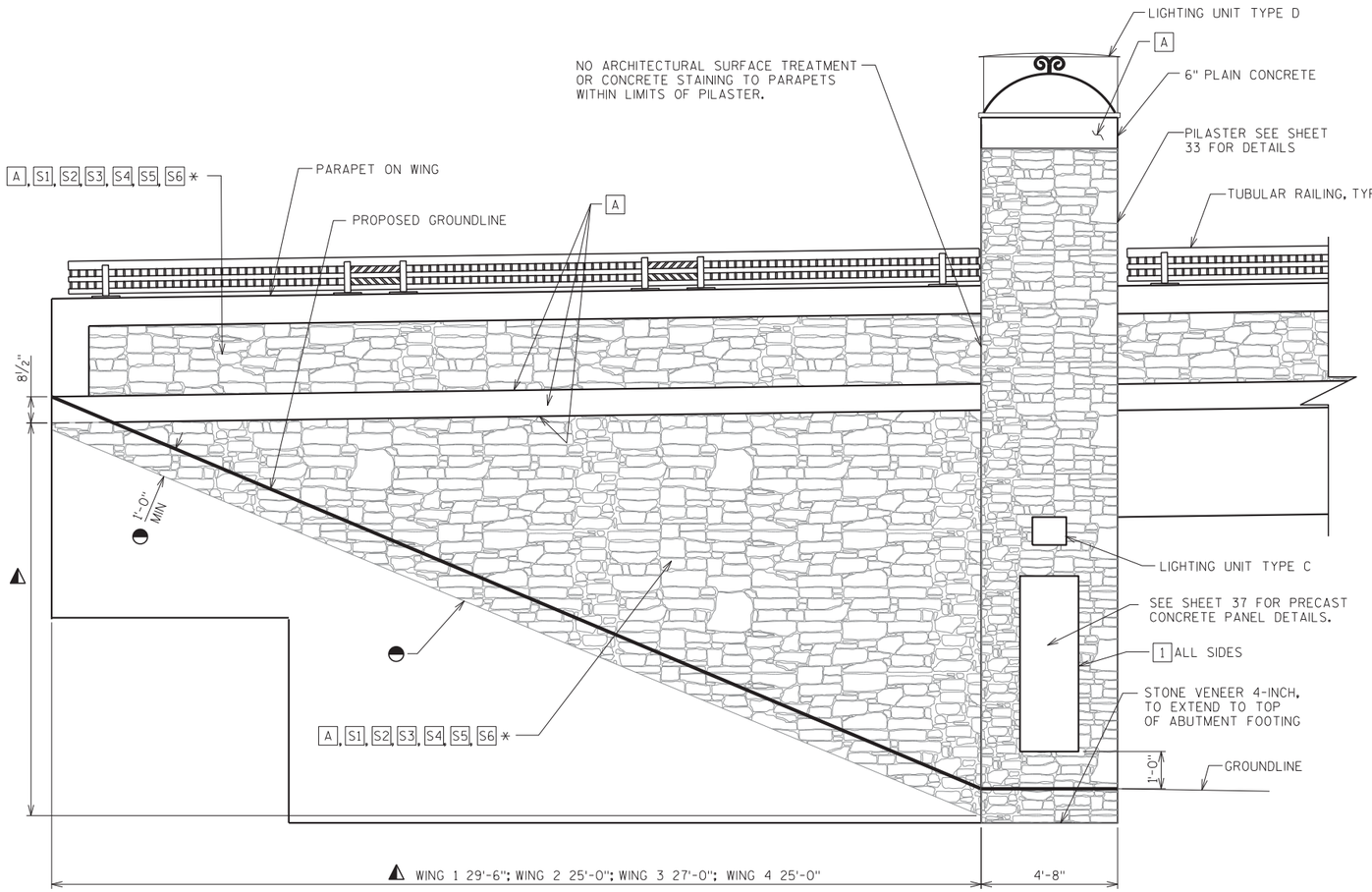
SHEET 35 OF 39
359

8

8

STATE PROJECT NUMBER

9210-11-71



WING WALL ELEVATION

NOTES

SEE SHEET 39 FOR ARCHITECTURAL DETAILS ON SUPERSTRUCTURE.

1 ½" FILLER BETWEEN STONE VENEER AND PRECAST CONCRETE PANEL. SEAL ALL HORIZONTAL AND VERTICAL SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

BOTTOM OF "ARCHITECTURAL SURFACE TREATMENT" AND CONCRETE STAINING TO EXTEND 1'-0" MIN BELOW PROPOSED GROUNDLINE.

LIMITS OF "ARCHITECTURAL SURFACE TREATMENT" AND "COLOR STAINING MULTICOLOR B-05-0392".

LIMITS OF STONE VENEER 4-INCH TO TOP OF FOOTING.

PILASTER	H
NW	19'-8 3/4"
SW	18'-7"
NE	19'-1 1/4"
SE	18'-11"

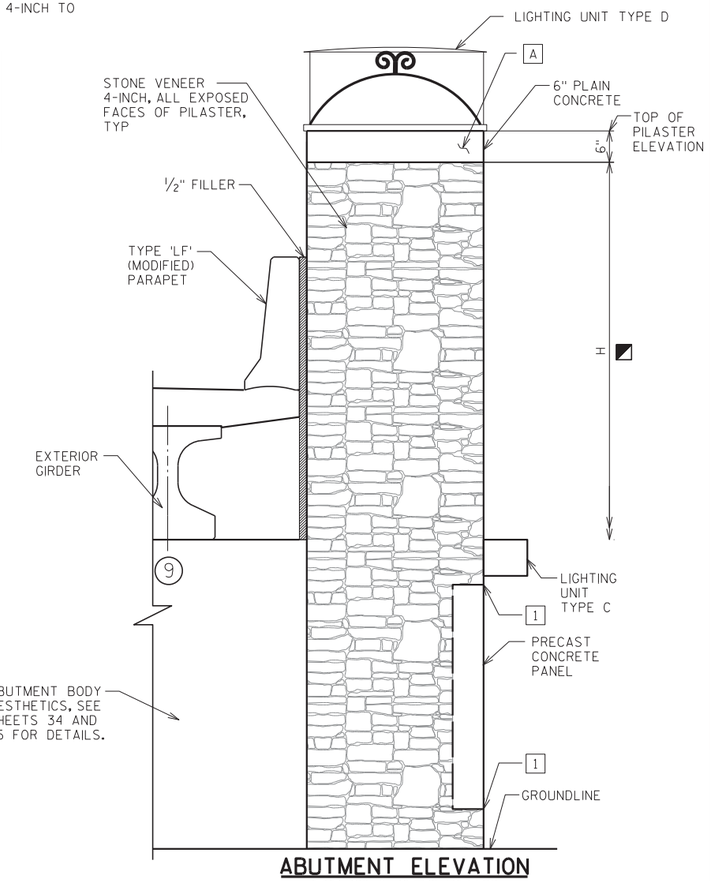
CONCRETE STAINING SCHEDULE

*

MARK	COLOR	LOCATION	FEDERAL COLOR
A	BASE COLOR	END ABUTMENT DIAPHRAGMS	36521
S1	STONE COLOR #1	25% OF STONES	32300
S2	STONE COLOR #2	25% OF STONES	36559
S3	STONE COLOR #3	15% OF STONES	30371
S4	STONE COLOR #4	15% OF STONES	30206
S5	STONE COLOR #5	10% OF STONES	36293
S6	STONE COLOR #6	10% OF STONES	36642

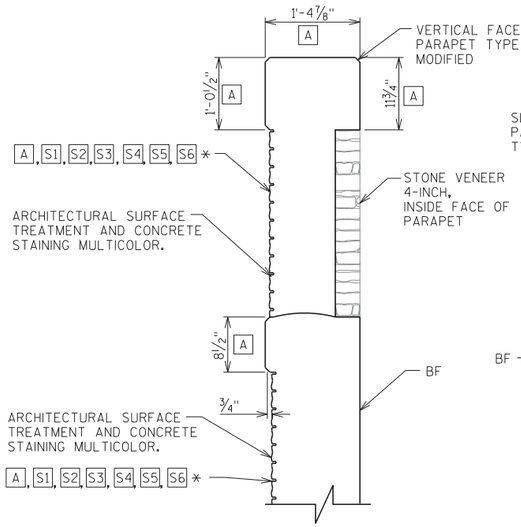
* STAIN ALL STONE PATTERN WITH BASE COLOR PRIOR TO STAINING WITH THE SIX STONE ACCENT COLORS. APPLICATION OF ALL SEVEN STAIN COLORS AT STONE PATTERN AREAS PAID FOR AS "CONCRETE STAINING MULTICOLOR B-05-0392".

THE COST OF STONE PATTERN FORMLINER TREATMENT IS PAID FOR UNDER "ARCHITECTURAL SURFACE TREATMENT. SEE SPECIAL PROVISIONS FOR DESCRIPTION OF STONE PATTERN FORMLINER.

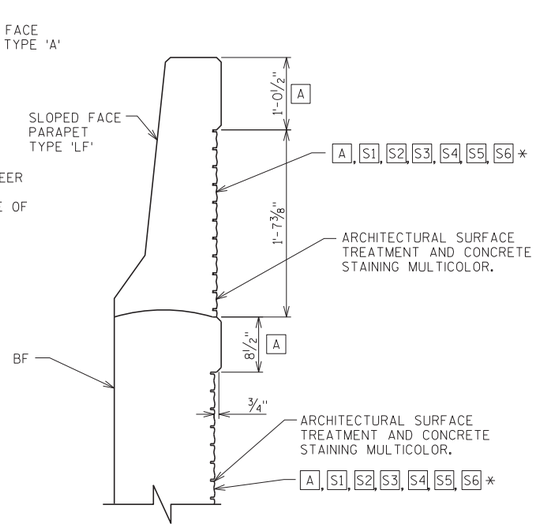


ABUTMENT ELEVATION

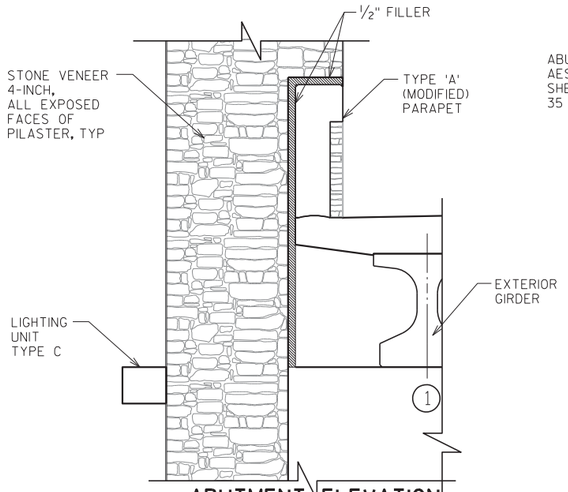
(TYP. SW & SE PILASTERS)



SECTION THRU WINGS 2 AND 3



SECTION THRU WINGS 1 AND 4



ABUTMENT ELEVATION

(TYP. NW & NE PILASTERS)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

WING & PILASTER AESTHETICS

SHEET 36 OF 39
360

8

8

FILE NAME : X:±23046-70±08037±TECH±CADD±dwg±080136_ad_wings.dgn PLOT DATE : 11/3/2011 PLOT BY : 1258MJB PLOT SCALE : 4.0000 sf / in.

STATE PROJECT NUMBER

9210-11-71

MARK	COLOR	LOCATION	FEDERAL COLOR	RELIEF (INCHES)
A	BASE COLOR	PANEL FACE	36521	0
K	ACCENT COLOR #9	RELIEFS	30051	1/2

NOTES

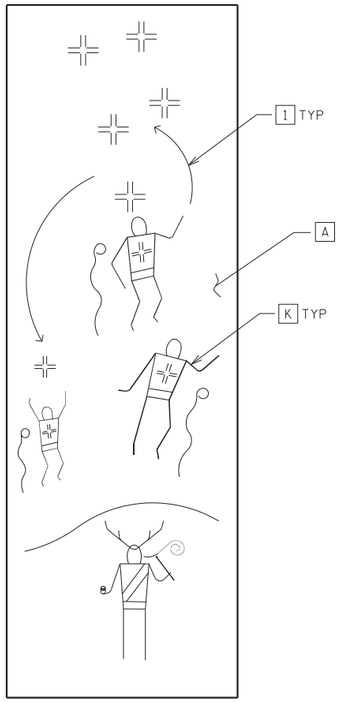
1. [1] 1/2" WIDE X 1/2" DEEP GROOVES TO CREATE DETAILS.
2. [2] 1/2" DEEP RELIEF TO LIMITS SHOWN.

ALL PANELS TO BE STAINED COLOR [A] ON THE SURFACE.

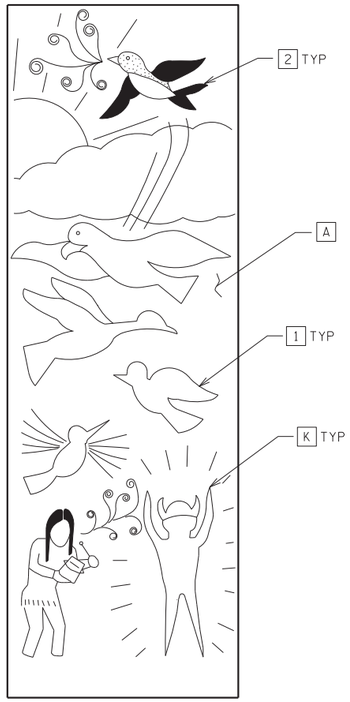
ALL 1/2" RELIEFS TO BE STAINED COLOR [K] ON SIDES AND BOTTOM.

BID ITEM SHALL BE "PRECAST CONCRETE PANELS" WHICH INCLUDES ALL ITEMS SHOWN.

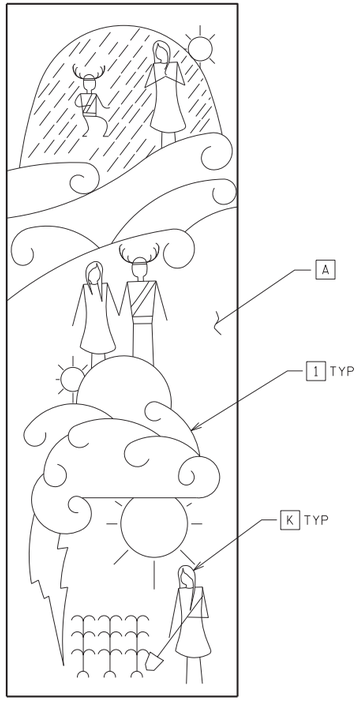
FF - FRONT FACE
BF - BACK FACE



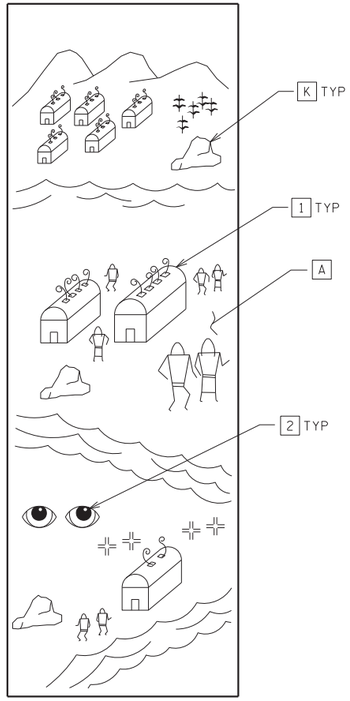
WING 1
(SEVEN BROTHERS)



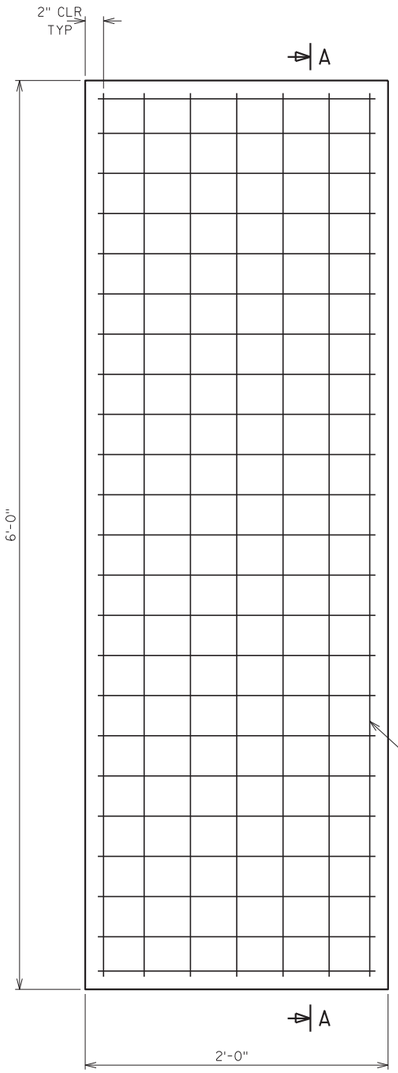
WING 2
(HERMIT THRUSH)



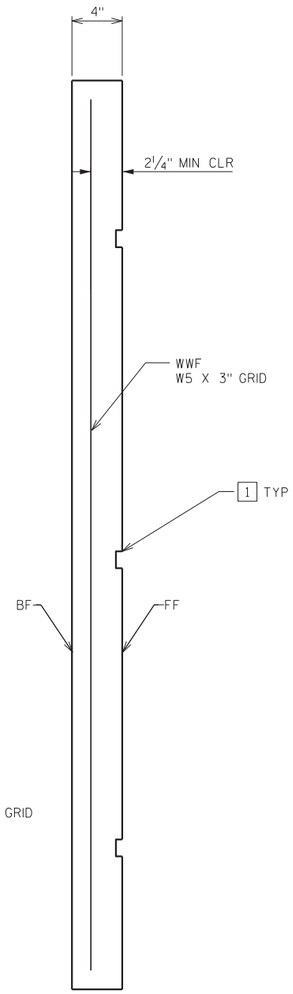
WING 3
(TUNDER BOY)



WING 4
(STANDING STONE)



TYPICAL PANEL



SECTION A-A

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

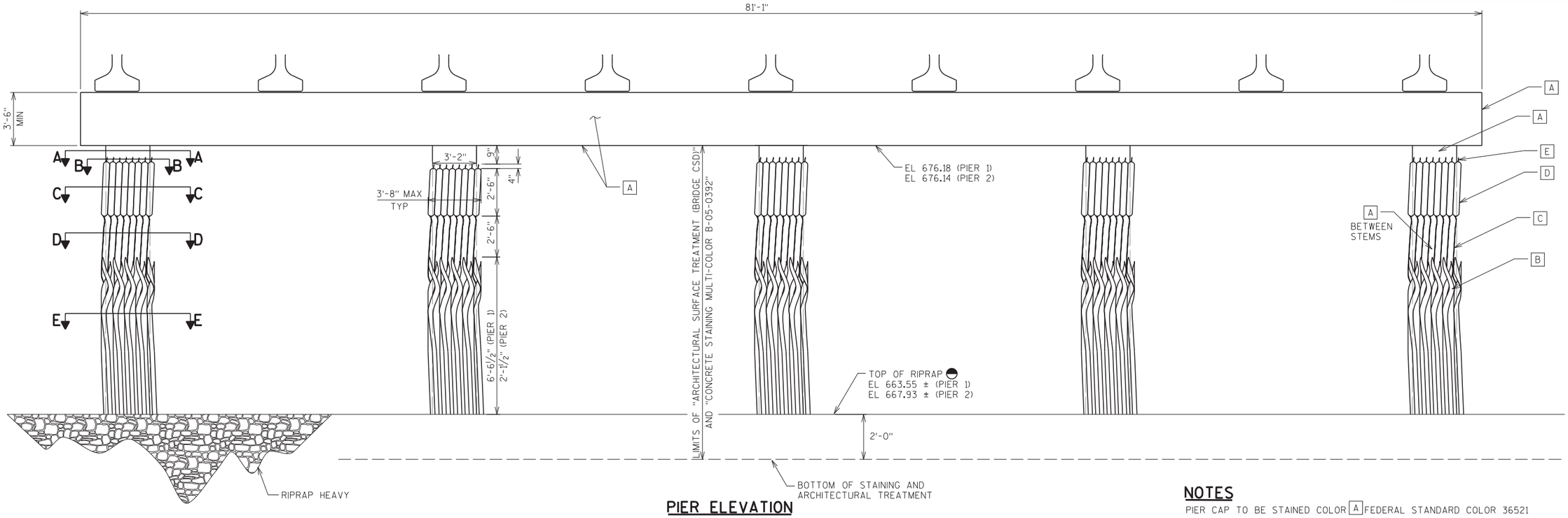
PILASTER PANEL AESTHETICS

SHEET 37 OF 39
361

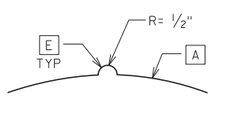
8

8

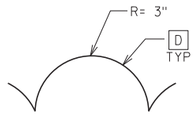
STATE PROJECT NUMBER
9210-11-71



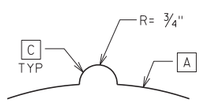
PIER ELEVATION



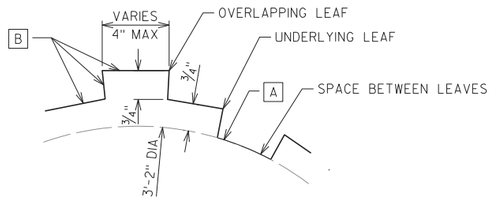
CATTAIL TIP DETAIL



CATTAIL DETAIL



STEM DETAIL



LEAF DETAIL

NOTES

PIER CAP TO BE STAINED COLOR A FEDERAL STANDARD COLOR 36521 AND PAID FOR AS BID ITEM "CONCRETE STAINING B-05-0392".

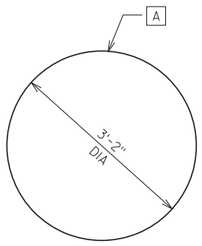
PIER COLUMNS TO BE STAINED AS SHOWN IN THE TABLE AND PAID FOR AS BID ITEM "CONCRETE STAINING MULTI-COLOR B-05-0392".

ARCHITECTURAL DETAILS ON COLUMNS TO BE PAID FOR UNDER BID ITEM "ARCHITECTURAL SURFACE TREATMENT (BRIDGE CSD)".

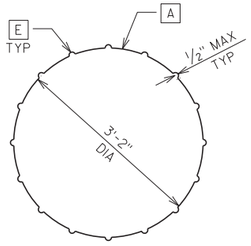
◓ TOP OF RIPRAP ELEVATIONS GIVEN ON STREAM SIDE OF PIER COLUMNS.

CONCRETE STAINING SCHEDULE

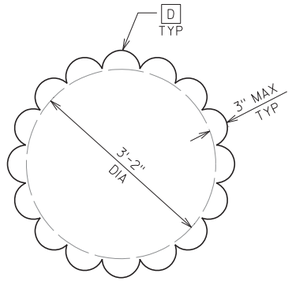
MARK	COLOR	LOCATION	FEDERAL COLOR	MAX RELIEF (INCHES)
A	BASE COLOR	CAP & PLAIN COLUMN	36521	0
B	ACCENT COLOR #6	LEAVES	34227	.75 & 1.5
C	ACCENT COLOR #6	STEMS	34227	0.75
D	ACCENT COLOR #24	CATTAILS	32169	3
E	ACCENT COLOR #24	CATTAIL TIP	32169	0.5



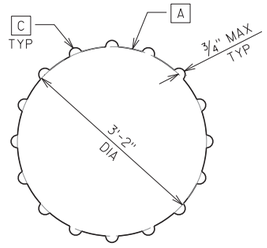
SECTION A-A
(PLAIN COLUMN)



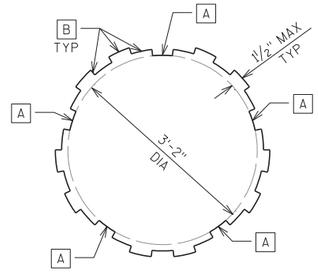
SECTION B-B
(CATTAIL TIP)



SECTION C-C
(CATTAILS)



SECTION D-D
(STEMS)



SECTION E-E
(LEAVES)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

PIER AESTHETICS

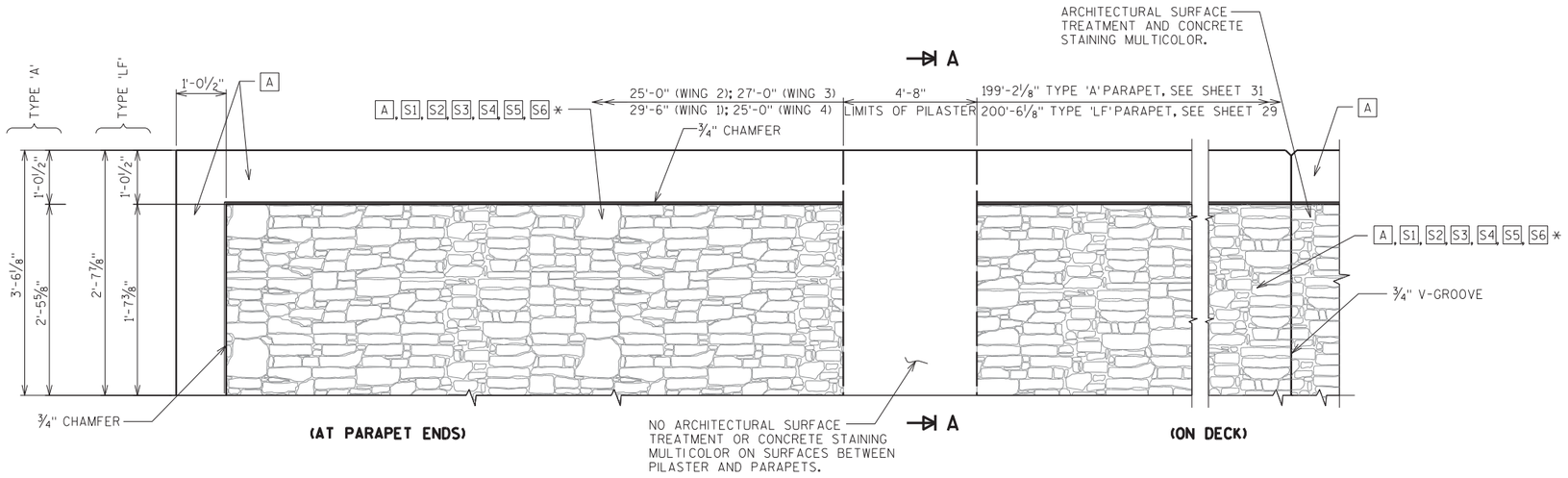
SHEET 38 OF 39
362

8

FILE NAME : ±±msn-fp01±Entp±23046-70±08037±TECH±CADD±dwg±080138_ad_pr.dgn PLOT DATE : 11/1/2011 PLOT BY : 1258MJB PLOT SCALE : 6.0000 sf / in.

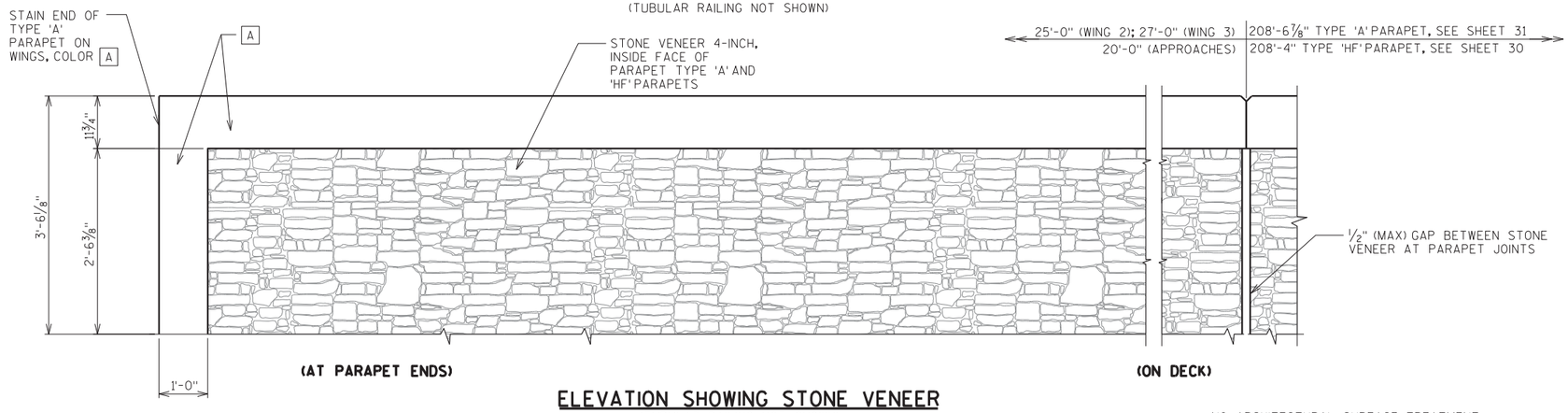
STATE PROJECT NUMBER

9210-11-71



ELEVATION SHOWING ARCHITECTURAL SURFACE TREATMENT

(TUBULAR RAILING NOT SHOWN)



ELEVATION SHOWING STONE VENEER

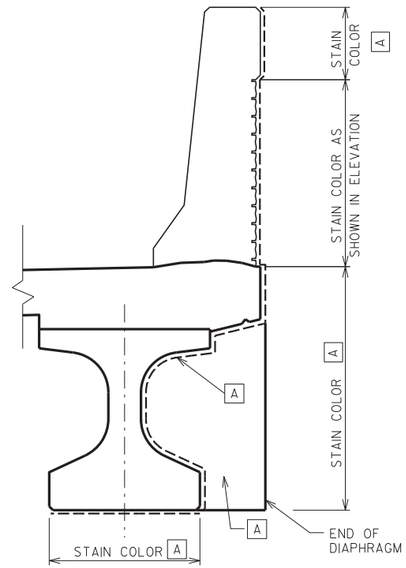
(TUBULAR RAILING NOT SHOWN)

CONCRETE STAINING SCHEDULE

MARK	COLOR	LOCATION	FEDERAL COLOR
A	BASE COLOR	END ABUTMENT DIAPHRAGMS *	36521
S1	STONE COLOR #1	25% OF STONES	32300
S2	STONE COLOR #2	25% OF STONES	36559
S3	STONE COLOR #3	15% OF STONES	30371
S4	STONE COLOR #4	15% OF STONES	30206
S5	STONE COLOR #5	10% OF STONES	36293
S6	STONE COLOR #6	10% OF STONES	36642

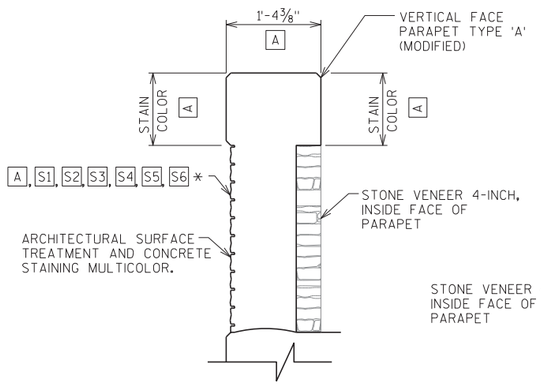
* STAIN ALL STONE PATTERN WITH BASE COLOR PRIOR TO STAINING WITH THE SIX STONE ACCENT COLORS. APPLICATION OF ALL SEVEN STAIN COLORS AT STONE PATTERN AREAS PAID FOR AS "CONCRETE STAINING MULTICOLOR B-05-0392".

THE COST OF STONE PATTERN FORMLINER TREATMENT IS PAID FOR UNDER "ARCHITECTURAL SURFACE TREATMENT". SEE SPECIAL PROVISIONS FOR DESCRIPTION OF STONE PATTERN FORMLINER.

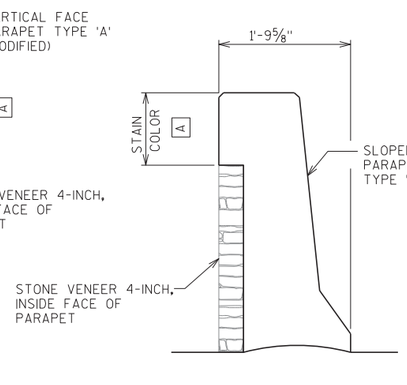


OUTSIDE GIRDER

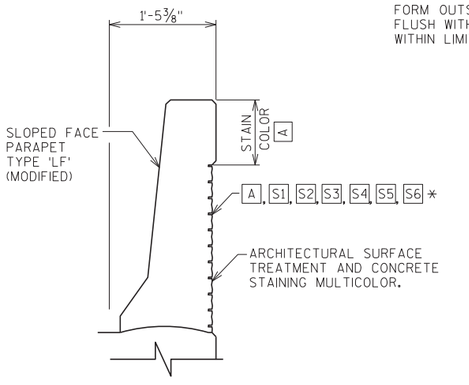
(SOUTH EXTERIOR GIRDER SHOWN. NORTH GIRDER SIMILAR EXCEPT DIFFERENT TYPE OF PARAPET.)



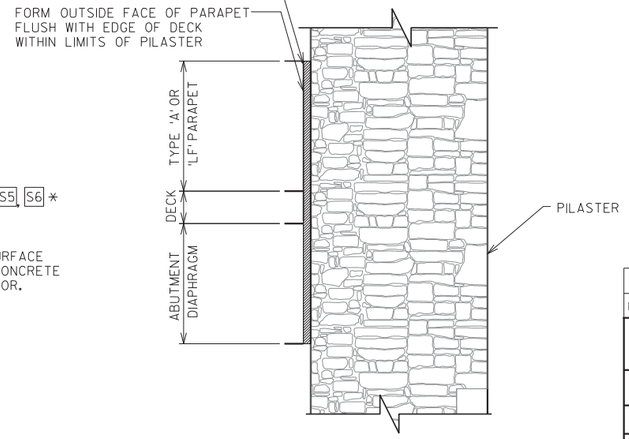
SECTION THRU VERTICAL FACE PARAPET TYPE 'A' (MODIFIED)



SECTION THRU SLOPED FACE PARAPET TYPE 'HF' (MODIFIED)



SECTION THRU SLOPED FACE PARAPET TYPE 'LF' (MODIFIED)



SECTION A-A

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-392

DRAWN BY TAV | PLANS CK'D. GAR

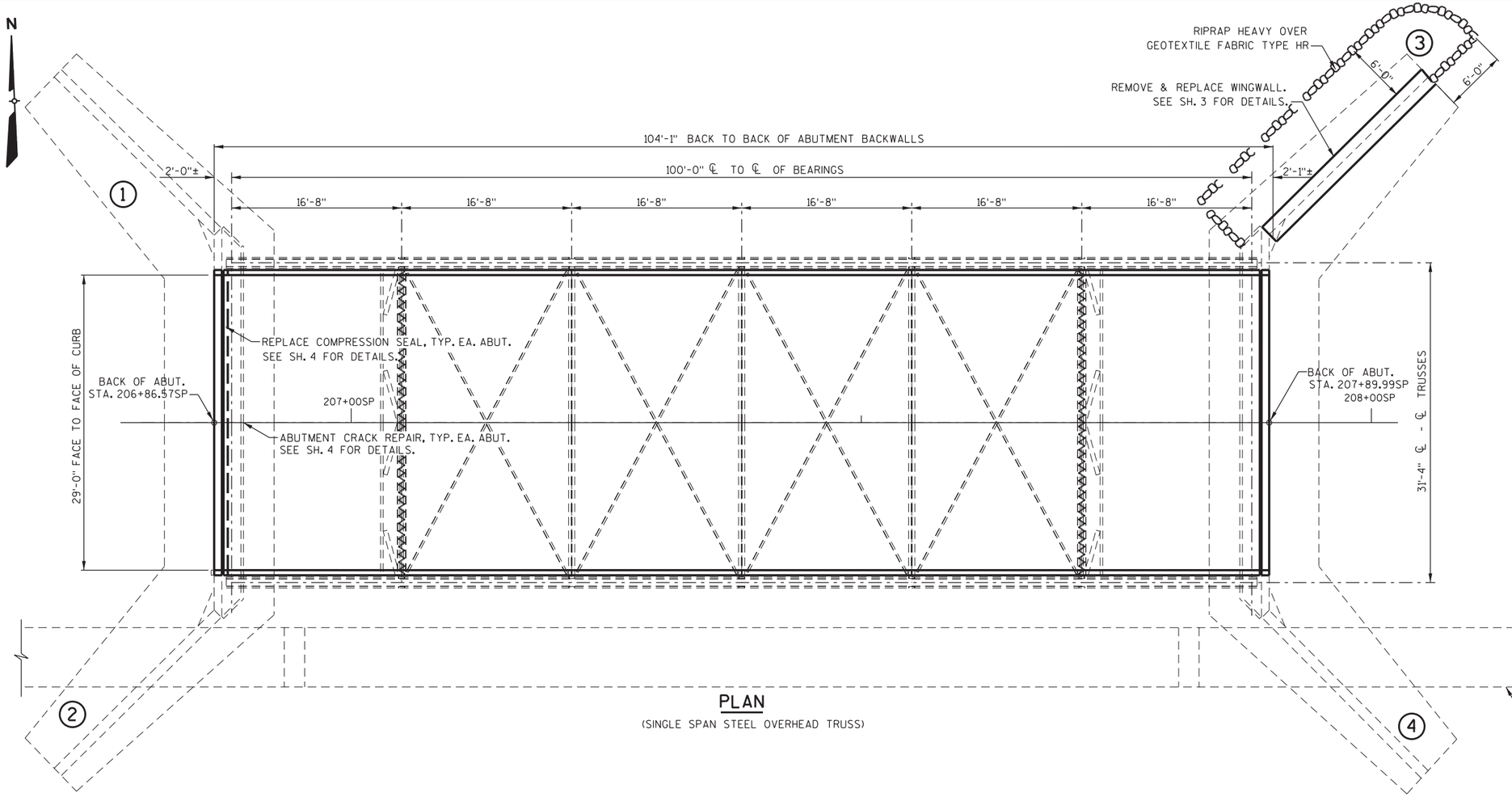
PARAPET AESTHETICS

SHEET 39 OF 39
363

8

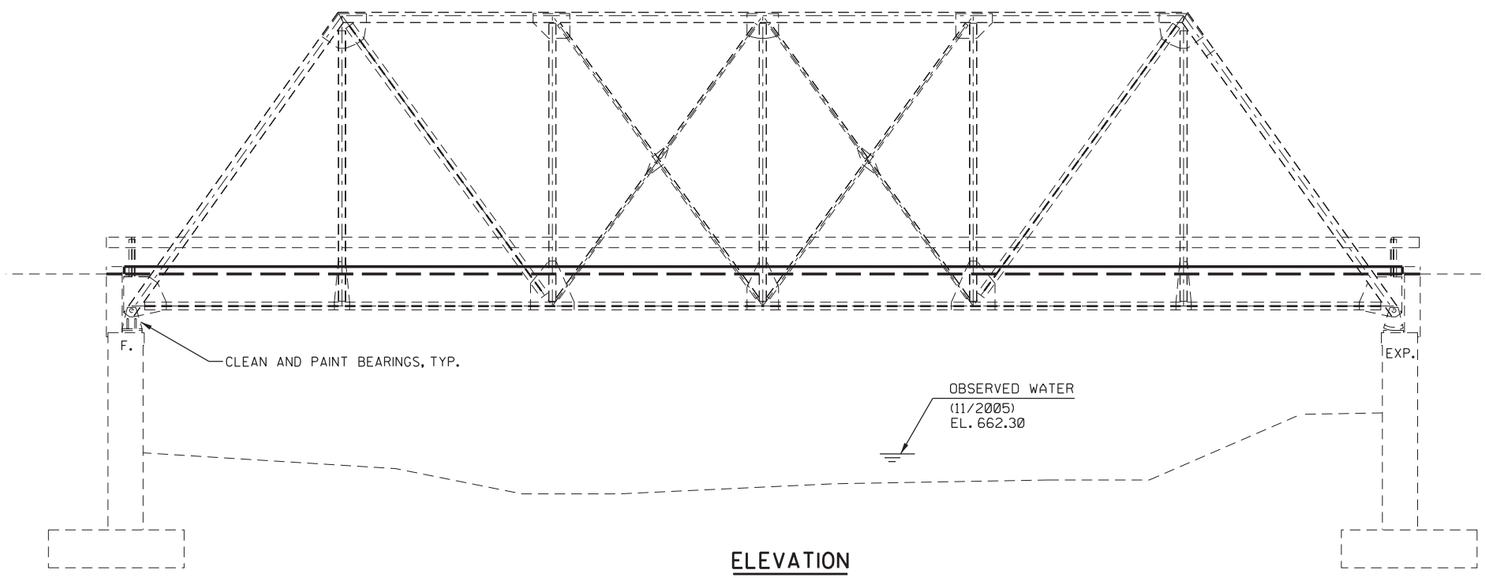
8

FILE NAME : ±±msn-fp01±Entp±23046-70±08037±TECH±CADD±dwg±080139_ad_para.dgn PLOT DATE : 11/1/2011 PLOT BY : 1258MJB PLOT SCALE : 4.0000 sf / in.



PLAN

(SINGLE SPAN STEEL OVERHEAD TRUSS)



ELEVATION

STATE PROJECT NUMBER

9210-11-71

LEGEND

(X) INDICATES WING NUMBER

DESIGN DATA

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY ——— f'_c = 3,500 P.S.I.

HIGH-STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 ——— f_y = 60,000 P.S.I.

LIVE LOAD

85 PSF
H10 MAINTENANCE VEHICLE

LIST OF DRAWINGS

1. GENERAL PLAN
2. CROSS SECTION & QUANTITIES
3. WING 3
4. EXPANSION DEVICE
5. RAILING STEEL TYPE C2

WISCONSIN PROFESSIONAL ENGINEER
THOMAS J. ROMENESKO
E-26318
MADISON
WI

Tom Romenesko
10/15/11

ROMENESKO ENGINEERING, INC.
TOM ROMENESKO
7325 CEDAR CREST DRIVE
SAUK CITY, WI 53583
(608) 644-1502

BRIDGE OFFICE CONTACT:
WILLIAM DREHER, P.E.
(608) 266-8489

NO.	DATE	REVISION	BY

ROMENESKO ENGINEERING, INC.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher KAR — 12/22/11
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-5-728

PEDESTRIAN TRAIL OVER DUCK CREEK

COUNTY	TOWN/CITY/VILLAGE
BROWN	HOBART

DESIGN SPEC. REHABILITATION N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
TR	VR	TAW	TR

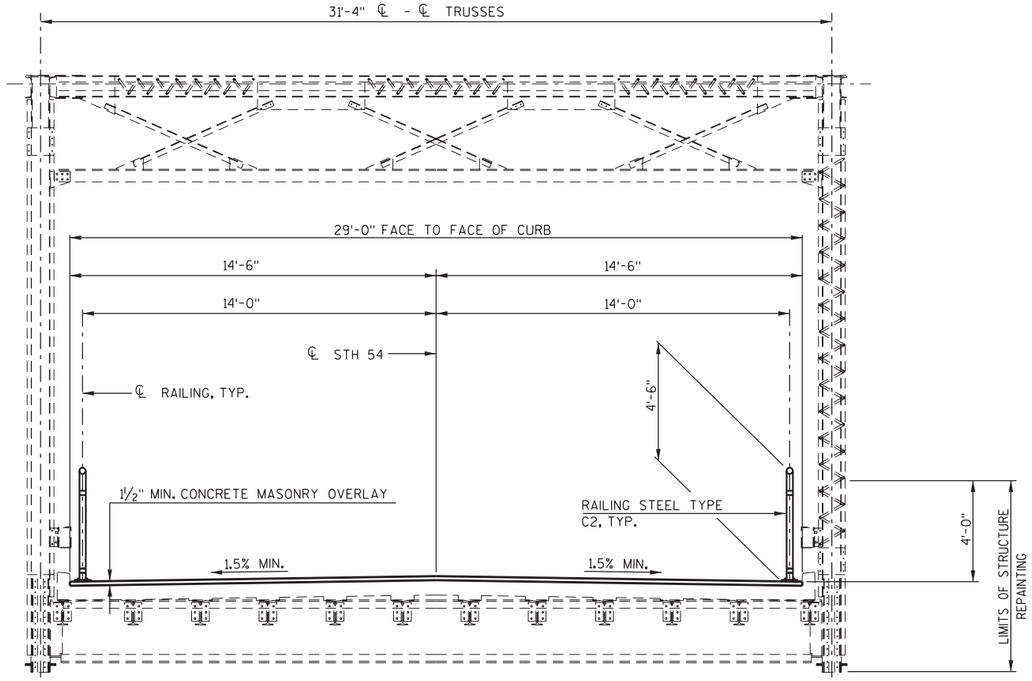
GENERAL PLAN

SHEET 1 OF 5
364

8

8

STATE PROJECT NUMBER
9210-11-71



CROSS SECTION THRU ROADWAY

(LOOKING NORTH - AT MID-SPAN)

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEMS	UNIT	TOTAL
203.0200	REMOVING OLD STRUCTURE STA. 207+38.28SP	LS	1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-5-728	LS	1
210.0100	BACKFILL STRUCTURE	CY	410
502.0100	CONCRETE MASONRY BRIDGES	CY	32
502.2000	COMPRESSION JOINT SEALER PREFORMED ELASTOMERIC 4-INCH	LF	62
502.5010	MASONRY ANCHORS TYPE L NO. 6 BARS	EACH	47
502.5020	MASONRY ANCHORS TYPE L NO. 8 BARS	EACH	33
502.6102	MASONRY ANCHORS TYPE S 1/2-INCH BARS	EACH	32
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	2,260
509.0301	PREPARATION DECKS TYPE 1	SY	110
509.0302	PREPARATION DECKS TYPE 2	SY	37
509.0500	CLEANING DECKS	SY	326
509.1000	JOINT REPAIR	SY	10
509.1200	CURB REPAIR	LF	208
509.1500	CONCRETE SURFACE REPAIR	SF	60
509.2000	FULL-DEPTH DECK REPAIR	SY	1
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	16
513.4080	RAILING TUBULAR SPECIAL B-5-728	LS	1
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	8
517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE STRUCTURE B-5-728	LS	1
517.4500.S	NEGATIVE PRESSURE CONTAIN AND COLLECT WASTE MATERIALS STRUCTURE B-5-728	LS	1
517.6001.S	PORTABLE CONTAMINATION FACILITY	EACH	1
606.0300	RIPRAP HEAVY	CY	15
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	32
	NON - BID ITEMS		
	FILLER	SIZE	½" & ¾"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

EXISTING STRUCTURE IS A SINGLE SPAN STEEL THROUGH TRUSS 104.1' LONG AND 29' WIDE FACE TO FACE CURB.

CONCRETE OVERLAY SHALL BE 1½" PLACED OVER PREPARED DECK SURFACE. EXISTING DECK SURFACE SHALL BE REMOVED TO SOUND CONCRETE - NO MINIMUM. THE EXISTING 1.5% CROSS SLOPE SHALL BE MAINTAINED.

FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M153, TYPES I, II OR III OR M213.

THE FIRST DIGIT OF A THREE DIGIT AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

AT ABUTMENTS, ALL EXCAVATED VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE.

ALL STATIONS AND ALL ELEVATIONS ARE IN FEET.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL PLANS, THEREFORE, PRIOR TO THEIR ACCEPTANCE THE CONTRACTOR SHALL FIELD VERIFY.

CLEAN, STRAIGHTEN, AND EXTEND EXISTING BAR STEEL REINFORCEMENT 24 BAR DIAMETERS INTO NEW CONSTRUCTION WHERE APPLICABLE.

ALL CONCRETE REMOVAL SHALL BE DEFINED BY A 1" DEEP SAW CUT.

CONCRETE SURFACE REPAIR IS ESTIMATED TO BE 30 S.F. AT EACH ABUTMENT.

REMOVAL OF TREES BEHIND NORTHEAST WINGWALL SHALL BE INCLUDED IN THE BID ITEM "EXCAVATION FOR STRUCTURES BRIDGES B-5-728".

REMOVAL OF PEDESTRIAN BRIDGE ALONG SOUTH SIDE SHALL BE INCLUDED IN THE ITEM "REMOVING OLD STRUCTURE STA. 207+38.28SP". THE EXISTING PED. BRIDGE IS APPROXIMATELY 169' LONG BY 6' WIDE. THE STRUCTURE CONSISTS OF A PRESTRESSED CONCRETE SLAB SUPPORTED BY PILE BENTS.

ALL STEEL MEMBERS BELOW UPPER LIMIT SHOWN SHALL BE CLEANED AND PAINTED. INCLUDED ARE FLOOR BEAMS, STRINGERS, BRACING, GUSSET PLATES, TRUSSES, AND ALL OTHER MISCELLANEOUS MEMBERS. PAINT COLOR SHALL MATCH EXISTING PAINT.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-728

DRAWN BY TAW | PLANS CK'D. TR

CROSS SECTION & QUANTITIES

SHEET 2 OF 5

365

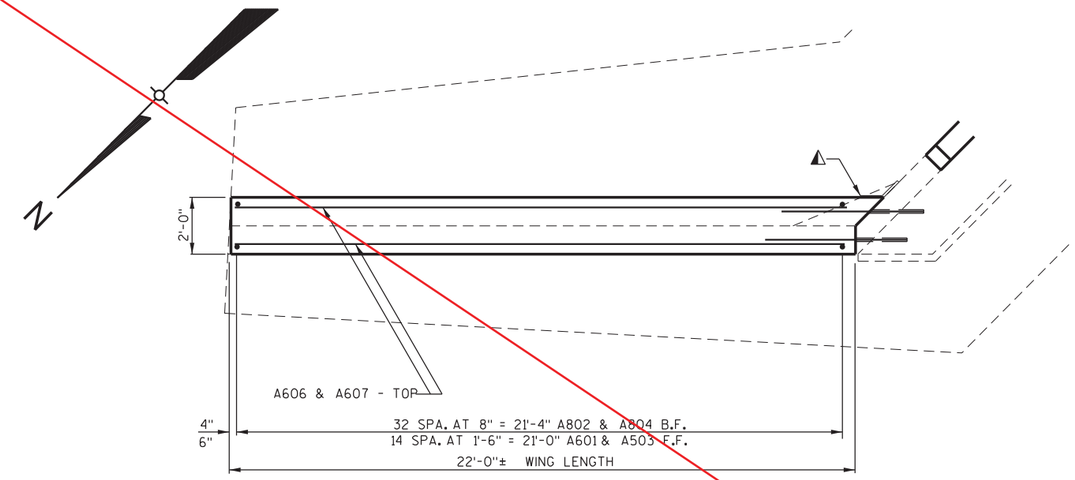
8

8

FILE NAME : P:\140 STH54\pe\Structure\02_genplan_b-5-728.dgn
PLOT DATE : 9/1/2011

STATE PROJECT NUMBER

9210-11-71



PLAN - WING 3

BILL OF BARS

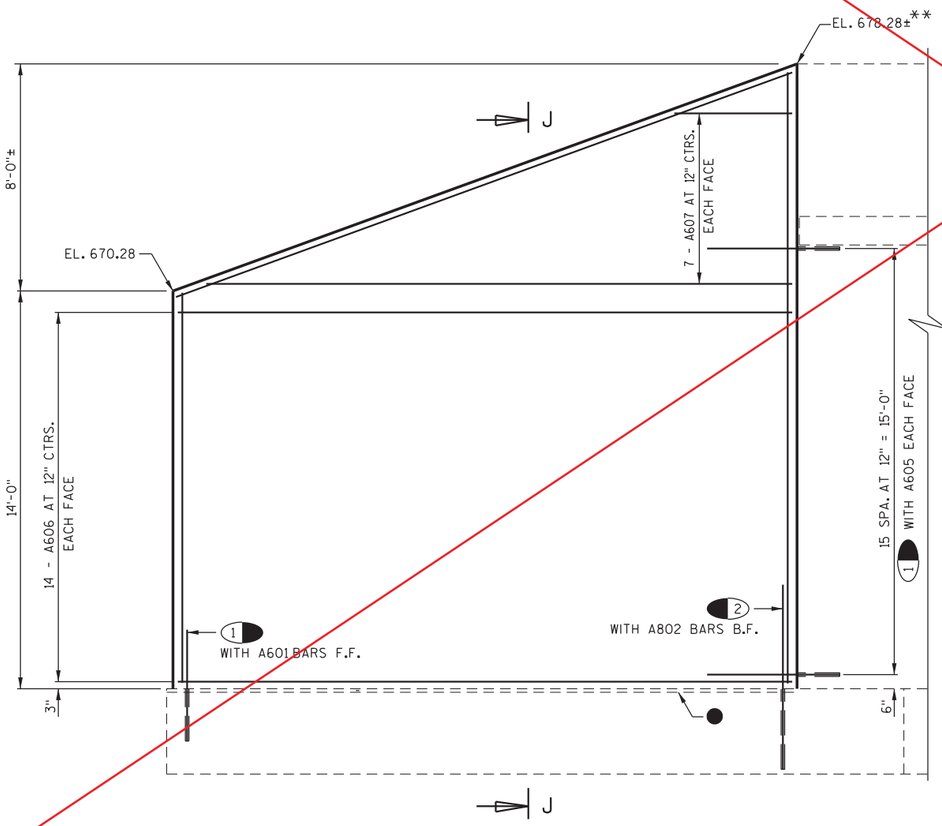
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

MARK	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION	TOTAL WEIGHT = 2,260 LBS.
A601	15	3-9			WING 3 - BODY - F.F.	VERT.
A802	32	6-6			WING 3 - BODY - B.F.	VERT.
A503	6	17-8		*	WING 3 - BODY - F.F.	VERT.
A804	1	17-8		*	WING 3 - BODY - B.F.	VERT.
A605	32	4-7			WING 3 - BODY - E.F.	HORIZ.
A606	28	21-8			WING 3 - BODY - E.F.	HORIZ.
A607	14	10-6		*	WING 3 - BODY - E.F.	HORIZ.
A608	2	23-1			WING 3 - BODY - E.F.	HORIZ.
A409	32	2-11			ABUT. - BODY	HORIZ.

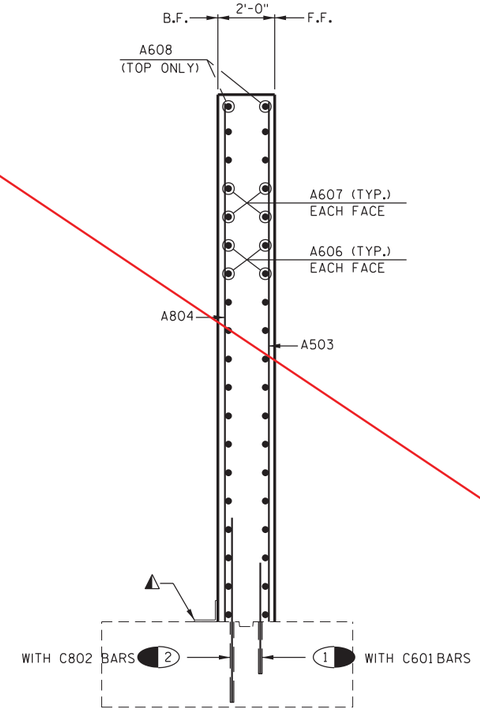
* LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATION. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

MARK	NO. REQ'D.	LENGTH
A603	1 SERIES OF 5	13'-11" TO 21'-5"
A804	1 SERIES OF 5	13'-10" TO 21'-6"
A607	2 SERIES OF 7	4'-2" TO 20'-9"



ELEVATION - WING 3



SECTION J-J

LEGEND

** DIMENSIONS AND ELEVATIONS ARE GIVEN AT THE F.F. OF ABUTMENT WING WALL.

● EXISTING CONST. JOINT KEYWAY

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE ABOVE FOOTING.

(1) CONCRETE MASONRY ANCHORS TYPE L NO. 6 BARS. EMBED 1'-6" WITH A601 & A605 BARS. TOTAL NO. REQUIRED = 47.

(2) CONCRETE MASONRY ANCHORS TYPE L NO. 8 BARS. EMBED 2'-8" WITH A802 BARS. TOTAL NO. REQUIRED = 33.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-728

DRAWN BY TAW | PLANS CK'D. TR

WING 3

SHEET 14 OF 366

FILE NAME : P:\148 STH54\pedestructure\03_wing_b-5-728.dgn
PLOT DATE : 6/17/2011

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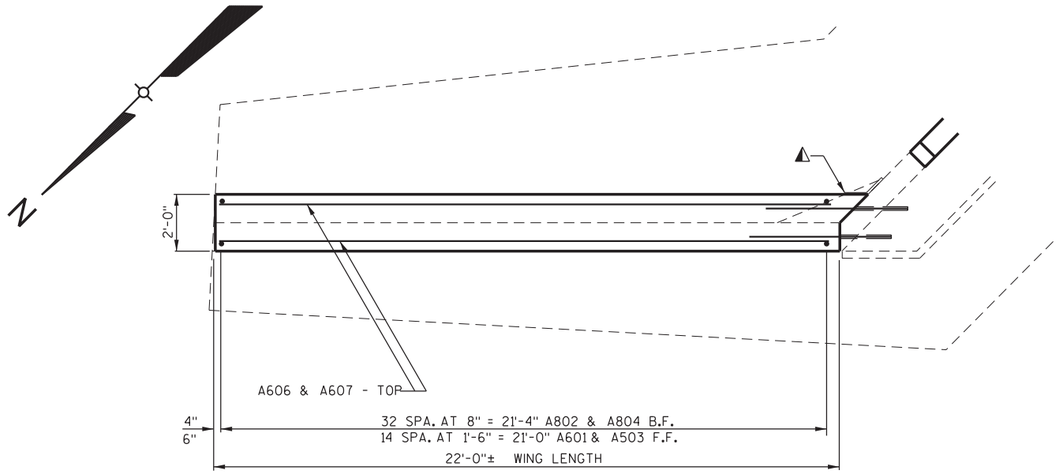
STATE PROJECT NUMBER

9210-11-71



PLAN - WING 3

BILL OF BARS

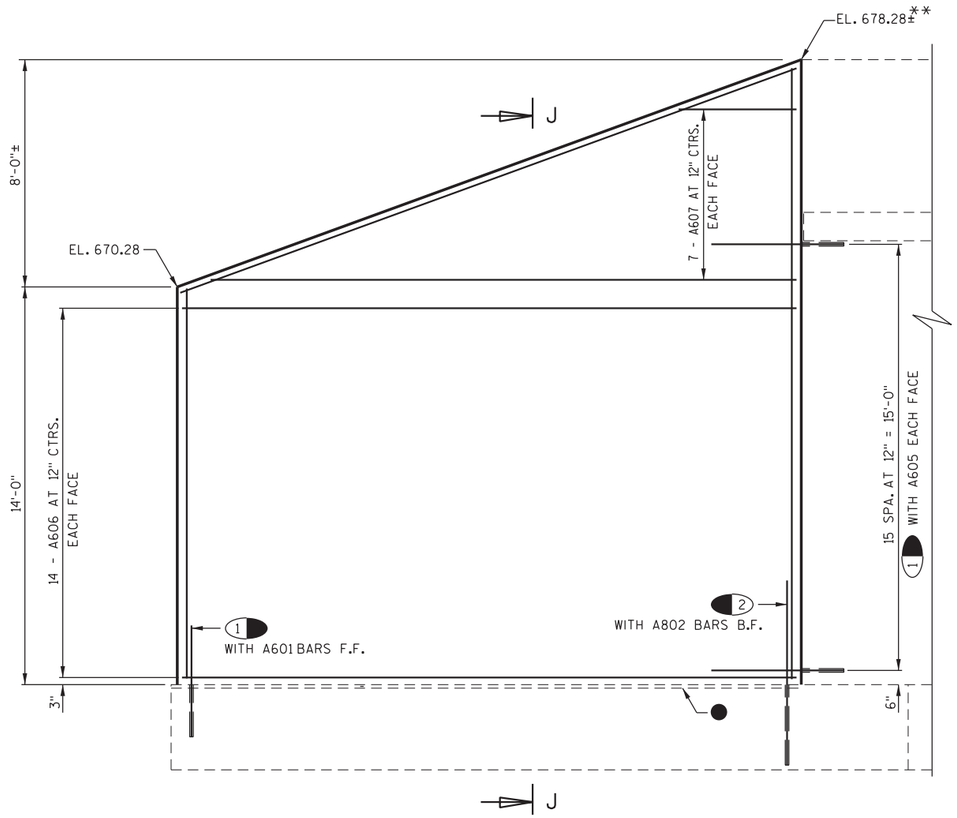
DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

MARK	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION	TOTAL WEIGHT = 3,950 LBS.
A601	15	3-9			WING 3 - BODY - F.F.	VERT.
A802	33	6-6			WING 3 - BODY - B.F.	VERT.
A503	15	17-8		✳	WING 3 - BODY - F.F.	VERT.
A804	33	17-8		✳	WING 3 - BODY - B.F.	VERT.
A605	32	4-7			WING 3 - BODY - E.F.	HORIZ.
A606	28	21-8			WING 3 - BODY - E.F.	HORIZ.
A607	14	10-6		✳	WING 3 - BODY - E.F.	HORIZ.
A608	2	23-1			WING 3 - BODY - E.F.	HORIZ.
A409	32	2-11			ABUT. - BODY	HORIZ.

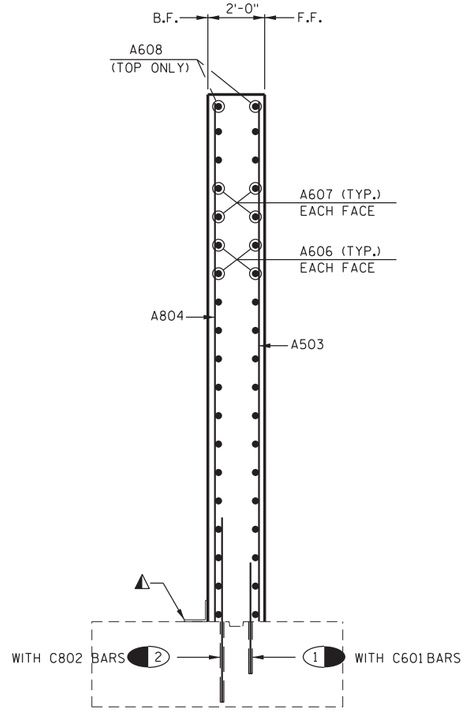
✳ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATION. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

MARK	NO. REQ'D.	LENGTH
A503	1 SERIES OF 15	13'-11" TO 21'-5"
A804	1 SERIES OF 33	13'-10" TO 21'-6"
A607	2 SERIES OF 7	4'-2" TO 20'-8"



ELEVATION - WING 3



SECTION J-K

LEGEND

** DIMENSIONS AND ELEVATIONS ARE GIVEN AT THE F.F. OF ABUTMENT WING WALL.

● EXISTING CONST. JOINT KEYWAY

▲ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE ABOVE FOOTING.

(1) CONCRETE MASONRY ANCHORS TYPE L NO. 6 BARS. EMBED 1'-6" WITH A601 & A605 BARS. TOTAL NO. REQUIRED = 47.

(2) CONCRETE MASONRY ANCHORS TYPE L NO. 8 BARS. EMBED 2'-8" WITH A802 BARS. TOTAL NO. REQUIRED = 33.

NO.	DATE	REVISION	BY
	5/18/12	REINFORCEMENT CORRECTIONS	TR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-728

DRAWN BY TAW | PLANS CK'D. TR

WING 3

SHEET 3 OF 5

366A

FILE NAME : P:\148 STH54ped\structure\03_wing_b-5-728x8.dgn
PLOT DATE : 5/21/2012

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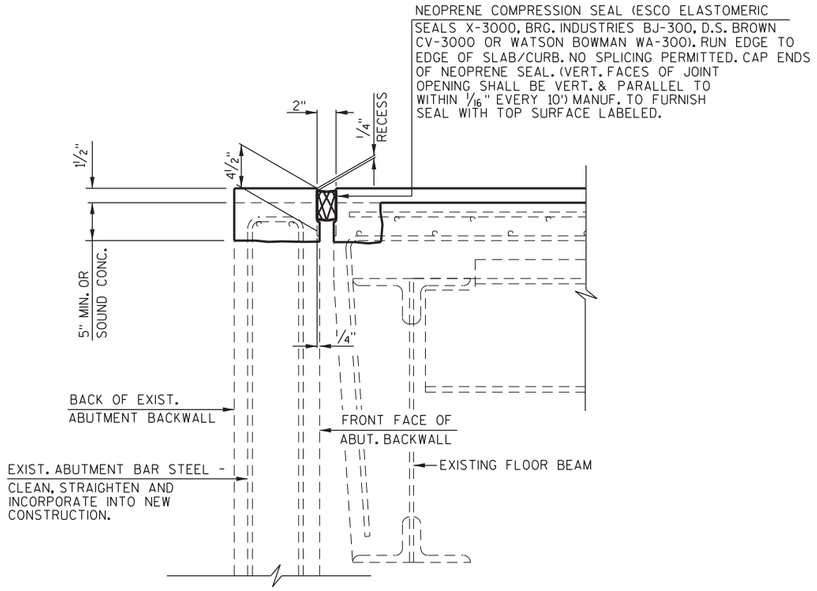
STATE PROJECT NUMBER

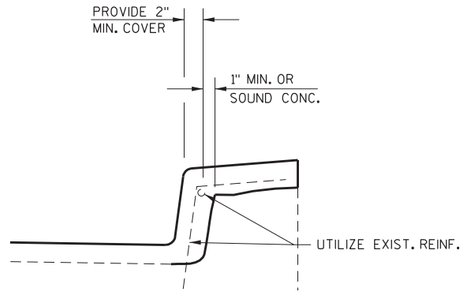
9210-11-71



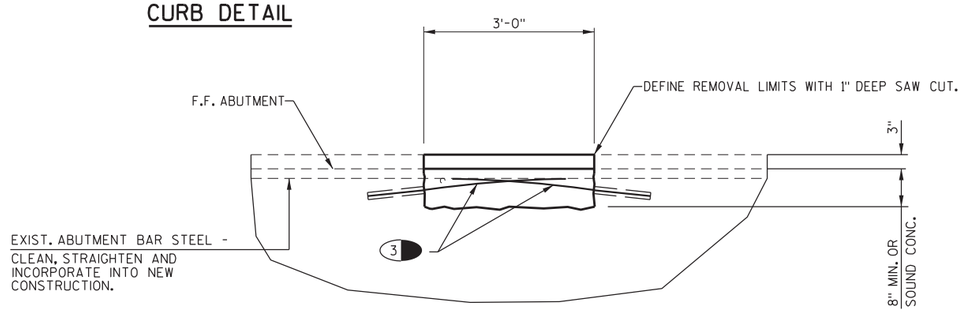
AT ABUTMENT AT EXISTING SLAB

TYPICAL SECTION THRU JOINT AT ABUT.

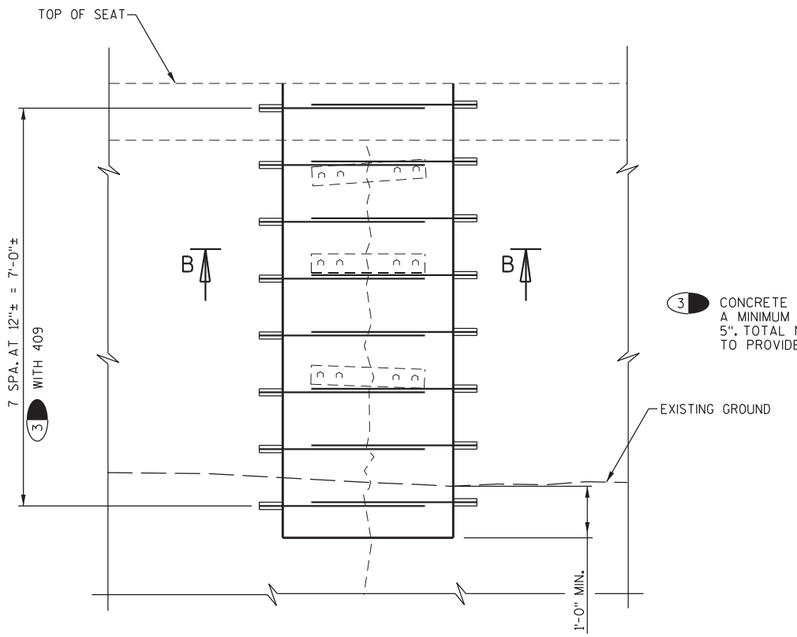
(NORMAL TO ℄ SUBSTRUCTURE)



CURB DETAIL



SECTION B-B



(3) CONCRETE MASONRY ANCHORS TYPE S NO. 4 BARS EPOXY HAVING A MINIMUM PULLOUT CAPACITY OF 12 KIPS. EMBED A MINIMUM OF 5". TOTAL NO. REQUIRED = 18. FIELD BEND BARS AS NECESSARY TO PROVIDE CLEARANCE.

EAST ABUTMENT CRACK REPAIR

WEST ABUTMENT SIMILAR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-728

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EXPANSION DEVICE

SHEET 9 OF 367

FILE NAME : P:\148 STH54\ped\structure\04_joint_and_crack\b-5-728.dgn
PLOT DATE : 6/17/2011

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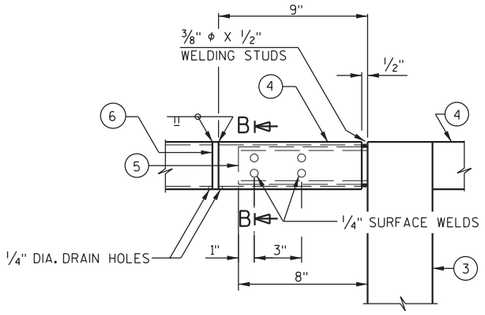
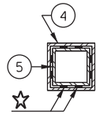
STATE PROJECT NUMBER

9210-11-71

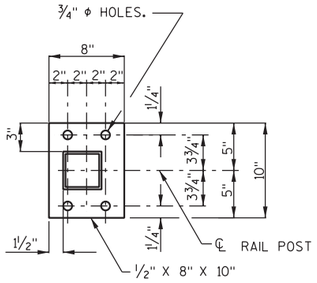


RAILING EXPANSION JOINT DETAIL

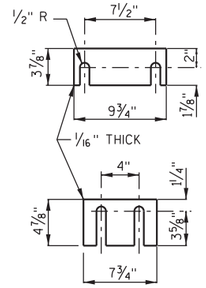


SECTION B-B

☆ MIN. 5/8" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



BASE PLATE



SHIM PLATE DETAILS

TWO SHIMS OF EACH SIZE REQUIRED PER POST

NOTES

BID ITEM SHALL BE "RAILING TUBULAR SPECIAL B-5-728" WHICH SHALL INCLUDE ALL ITEMS SHOWN.

POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.

RAILS AND POSTS TO BE A.S.T.M. A500, GRADE B. BASE PLATES, PLATES, AND SHIMS, TO BE A.S.T.M. A709, GRADE 36. ALL GALVANIZED AFTER FABRICATION.

ALL POST SPA. ARE TAKEN HORIZ. ALONG CENTER LINE OF RAILING AT BASE OF POST.

SHIMS SHALL BE USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT.

CAULK AROUND PERIMETER OF BASE PLATES AND FILL PORTION OF SLOTTED HOLES AROUND ANCHOR BOLTS WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

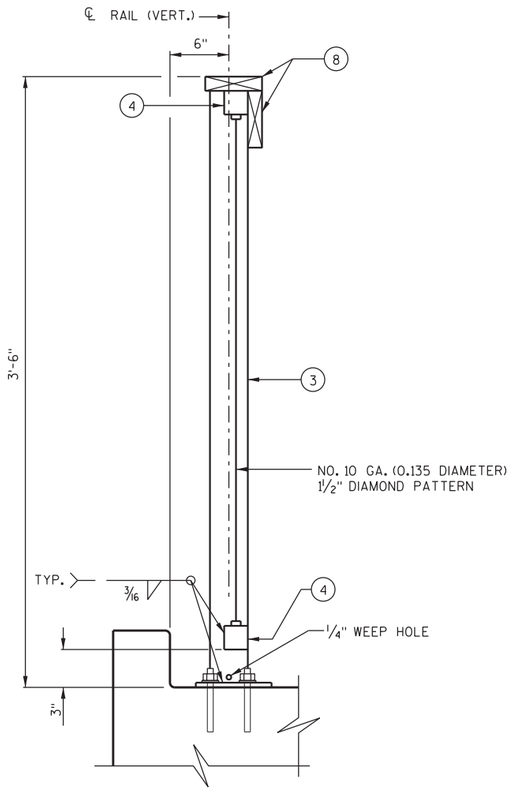
CUT BOTTOM OF POST TO MAKE VERTICAL IN TRANSVERSE DIRECTION.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE EITHER STAINLESS STEEL OR A.S.T.M. 307. IF 307 IS USED, ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED.

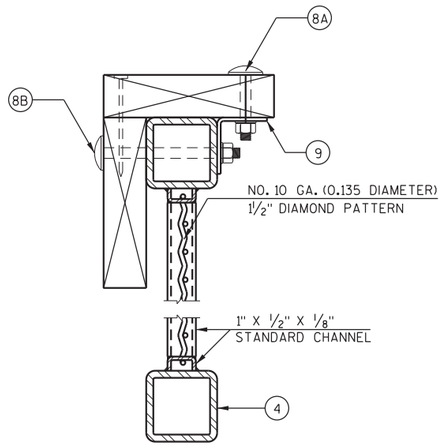
RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE NOT MORE THAN 3 POSTS.

VENT HOLES SHALL BE DRILLED IN MEMBERS AS REQUIRED TO FACILITATE GALVANIZING.

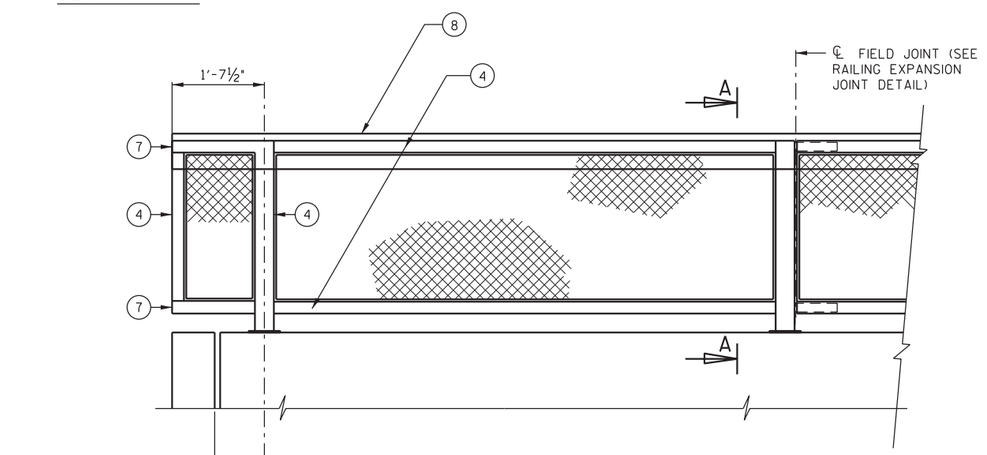
ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING ALL STEEL RAILING POSTS AND STEEL TUBING SHALL BE GIVEN A #6 BLAST CLEANING BY SSPC SPECIFICATIONS.



SECTION THRU RAILING



SECTION A-A



INSIDE ELEVATION OF RAILING

LEGEND

*POST SPACING IS GIVEN ALONG ℄ OF RAIL.

LEGEND

(1) PLATE 5/8" X 8" X 10" WITH 3/4" HOLES.

(2) 5/8" ϕ CONCRETE MASONRY ANCHOR, TYPE S EPOXY, 7" MINIMUM EMBEDMENT WITH A MINIMUM PULLOUT OF 20 KIPS.

(3) STRUCTURAL TUBING 4" X 4" X 3/16". PLACE VERTICAL. WELD TO NO. 1 & 4.

(4) STRUCTURAL TUBING 2 1/2" X 2 1/2" X 3/16".

(5) RECTANGULAR SLEEVE FABRICATED FROM 3/16" PLATES. WELD TO NO. 3.

(6) PLATE 1/4" WELDED ALL AROUND TO NO. 4 TO PREVENT WATER FROM GETTING INTO THE RAIL.

(7) PLATE 1/4" WELDED ALL AROUND TO NO. 4.

(8) 2" x 6" IPE TIMBER RAILS. FASTEN TOGETHER WITH #10 x 3" STAINLESS STEEL DECK SCREWS AND CONNECT TO STEEL TUBES WITH NO. 9. PREDRILL HOLES.

(8A) 3/8" x 2 1/2" STAINLESS STEEL CARRIAGE BOLT WITH NUT AND WASHER.

(8B) 3/8" x 5" STAINLESS STEEL CARRIAGE BOLT WITH NUT AND WASHER.

(9) 1/8" x 3 1/2" x 3 1/2" BENT PLATE. SPACE PLATES AT 3'-0" MAXIMUM ALONG RAIL. STAGGER HOLES FOR CLEARANCE OF CARRIAGE BOLTS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-5-728

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RAILING TUBULAR SCREENING

SHEET 5 OF 5

368

FILE NAME : P:\148 STH54ped\structure\5_b-5-728.mestrailing.dgn
PLOT DATE : 10/26/2011

1 2 3 7 8 9 10 11 12 13

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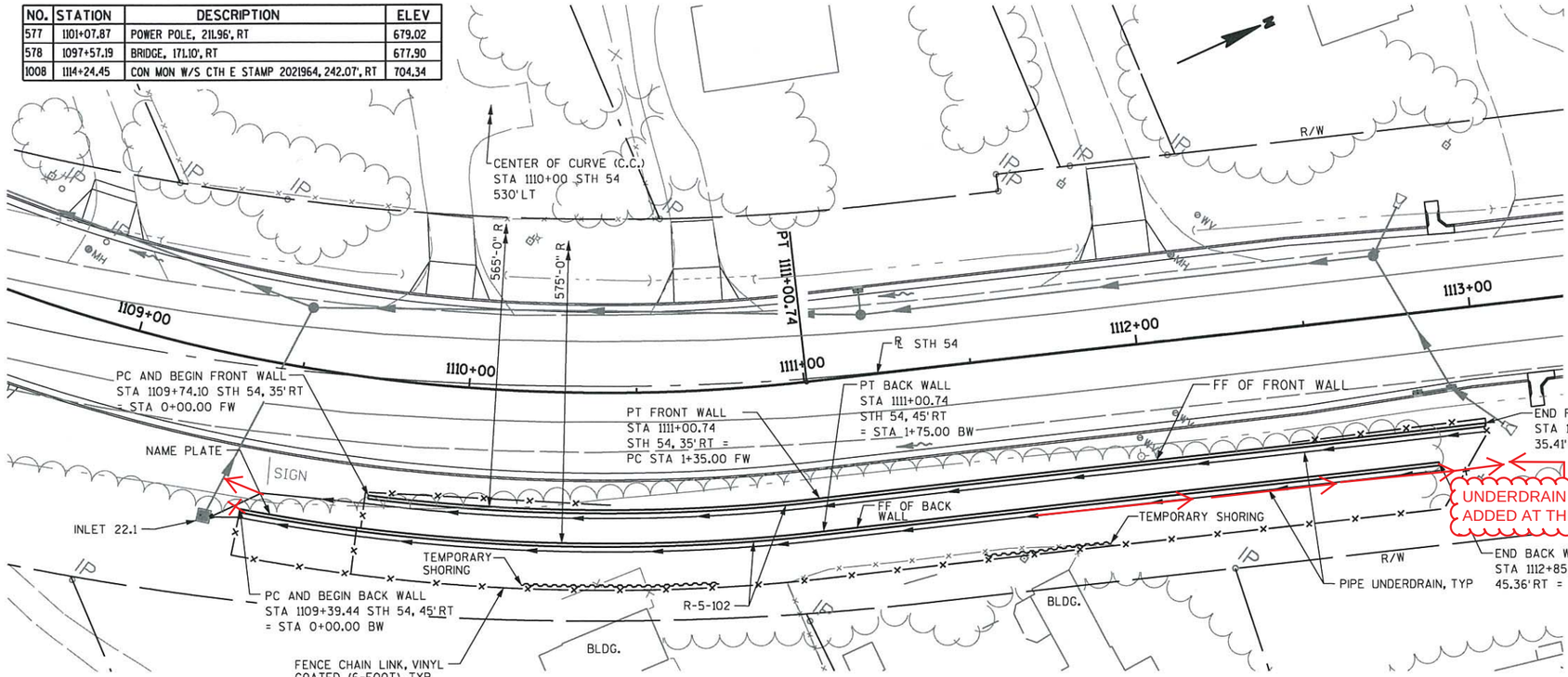
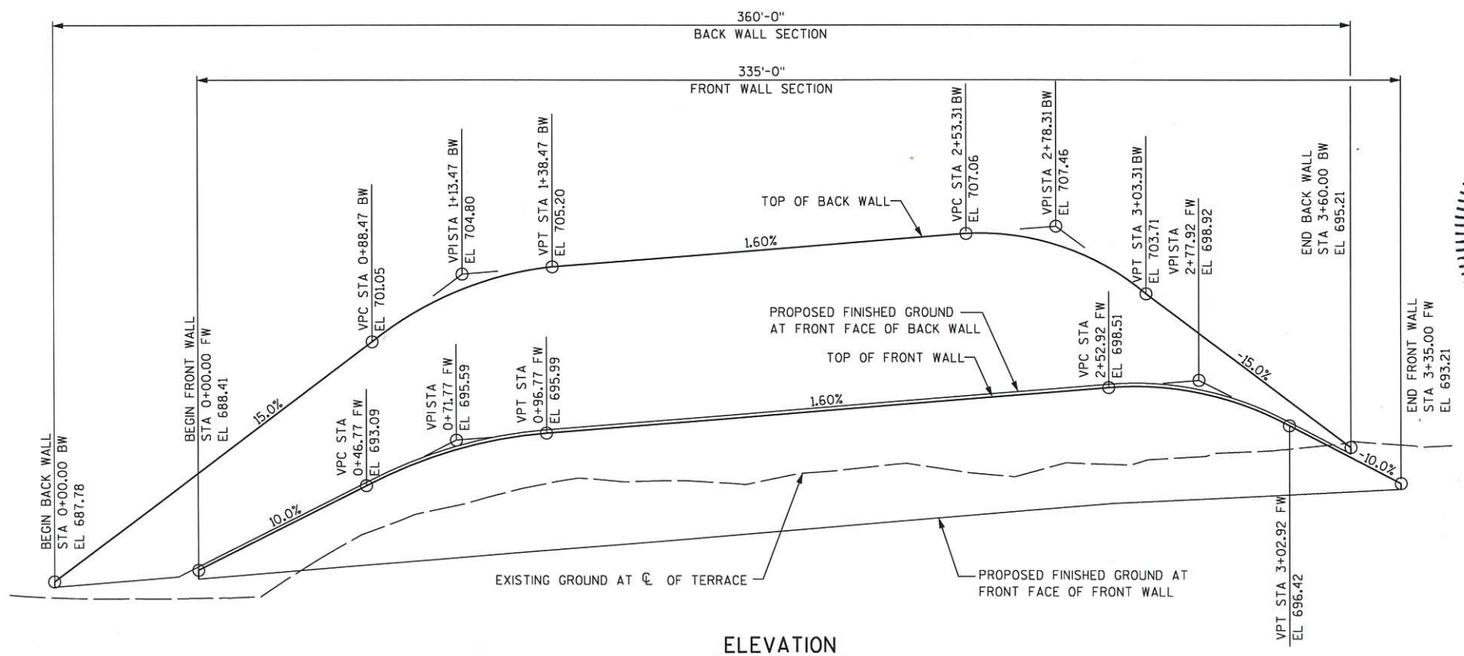
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV
577	1101+07.87	POWER POLE, 211.96', RT	679.02
578	1097+57.19	BRIDGE, 171.10', RT	677.90
1008	1114+24.45	CON MON W/S CTH E STAMP 2021964, 242.07', RT	704.34



PLAN



ELEVATION
(LOOKING FROM BEHIND WALL)

STATE PROJECT NUMBER

9210-11-71

GENERAL NOTES

SEE SHEET 3 FOR DESIGN DATA AND MATERIAL PROPERTIES.

DRAWINGS SHALL NOT BE SCALED.

LENGTHS AT STATIONS MEASURED ALONG FF OF WALLS.

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS AND SHOP DRAWINGS FOR THE RETAINING WALL IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

PLANS, ELEVATIONS AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

ARCHITECTURAL SURFACE TREATMENT NOT SHOWN FOR CLARITY. SEE SHEET 5 FOR PATTERN AND COLORS. SEE SPECIAL PROVISIONS FOR AESTHETIC TREATMENT TO WALL.

THE PRECAST PANEL FINISH AND COLOR STAINING IS TO BE APPROVED BY WISDOT NORTHEAST REGION.

MSE WALL PANELS WITH NOMINAL (JOINT TO JOINT) DIMENSIONS OF 5 FEET BY 10 FEET SHALL BE USED TO MINIMIZE JOINTS THROUGH ARCHITECTURAL SURFACE TREATMENT.

CHAIN LINK FENCE QUANTITIES INCLUDED IN ROADWAY PLANS.

BF = BACK FACE
FF = FRONT FACE

LIST OF DRAWINGS:

GENERAL PLAN — 1
TYPICAL SECTION — 2
DESIGN DATA, DETAILS AND QUANTITIES — 3
SUBSURFACE EXPLORATION — 4
AESTHETIC DETAILS — 5

WISCONSIN
JOHN A. RATHKE
E-29332
GREEN BAY, WI
PROFESSIONAL ENGINEER
1/5/12

NO.	DATE	REVISION	BY

Mead & Hunt, Inc.
1345B North Road
Green Bay, WI 54313
920.496.0500
www.meadhunt.com

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher KAR 01/06/12
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-5-102

RETAINING WALL ON EAST SIDE OF STH 54

COUNTY	~~TOWN/CITY/~~ VILLAGE
BROWN	HOBART

DESIGN SPEC.
AASHTO LRFD DESIGN SPEC. 5th EDITION

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
MJB	GAR	TAV	GAR

GENERAL PLAN

SHEET 1 OF 5
369

BRIDGE OFFICE CONTACT
WILLIAM DREHER, P.E.
TELEPHONE: (608) 266-8489
CONSULTANT CONTACT
JOHN RATHKE , P.E.
TELEPHONE: (920) 496-0500

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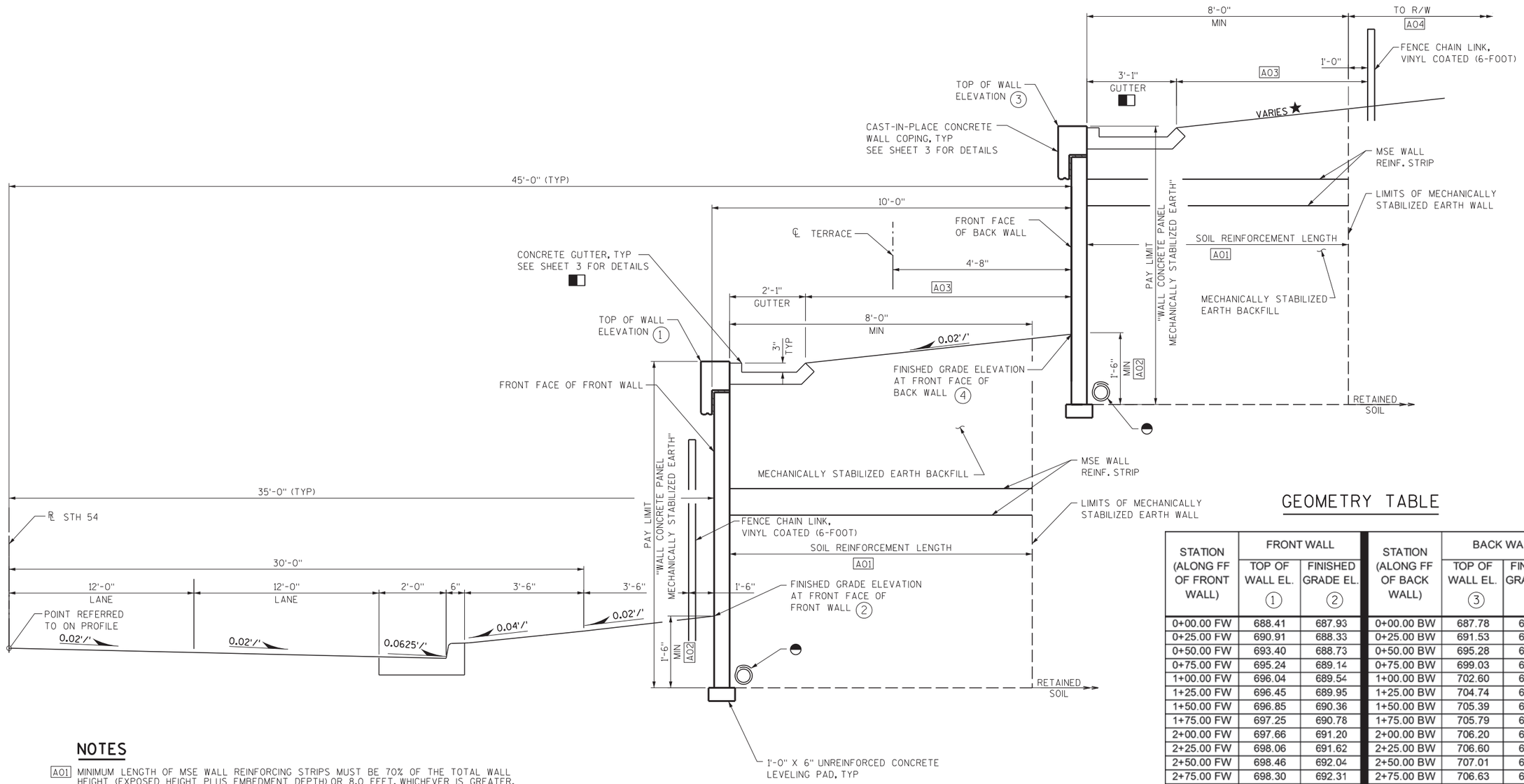
FILE NAME : X:±23046-70±08037±TECH±CADD±dwg±080201_gp.dgn PLOT DATE : 1/5/2012 PLOT SCALE : 42.00 '/ in.

STATE PROJECT NUMBER
9210-11-71



GEOMETRY TABLE

STATION (ALONG FF OF FRONT WALL)	FRONT WALL		STATION (ALONG FF OF BACK WALL)	BACK WALL	
	TOP OF WALL EL. (1)	FINISHED GRADE EL. (2)		TOP OF WALL EL. (3)	FINISHED GRADE EL. (4)
0+00.00 FW	688.41	687.93	0+00.00 BW	687.78	687.53
0+25.00 FW	690.91	688.33	0+25.00 BW	691.53	687.96
0+50.00 FW	693.40	688.73	0+50.00 BW	695.28	689.78
0+75.00 FW	695.24	689.14	0+75.00 BW	699.03	692.24
1+00.00 FW	696.04	689.54	1+00.00 BW	702.60	694.52
1+25.00 FW	696.45	689.95	1+25.00 BW	704.74	695.87
1+50.00 FW	696.85	690.36	1+50.00 BW	705.39	696.36
1+75.00 FW	697.25	690.78	1+75.00 BW	705.79	696.76
2+00.00 FW	697.66	691.20	2+00.00 BW	706.20	697.16
2+25.00 FW	698.06	691.62	2+25.00 BW	706.60	697.56
2+50.00 FW	698.46	692.04	2+50.00 BW	707.01	697.97
2+75.00 FW	698.30	692.31	2+75.00 BW	706.63	698.37
3+00.00 FW	696.70	692.56	3+00.00 BW	704.19	698.72
3+25.00 FW	694.21	692.80	3+25.00 BW	700.46	697.99
3+35.00 FW	693.21	692.82	3+50.00 BW	696.71	695.86
			3+60.00 BW	695.21	694.86

NOTES

A01 MINIMUM LENGTH OF MSE WALL REINFORCING STRIPS MUST BE 70% OF THE TOTAL WALL HEIGHT (EXPOSED HEIGHT PLUS EMBEDMENT DEPTH) OR 8.0 FEET, WHICHEVER IS GREATER. SOIL REINFORCEMENT MUST EXTEND A MINIMUM OF 3.0 FEET BEYOND THE FAILURE PLANE FOR INTERNAL STABILITY AS DEFINED BY AASHTO SPECIFICATIONS.

A02 MINIMUM DIMENSION FROM FINISHED GRADE AT FRONT FACE OF WALL TO TOP OF LEVELING PAD IS SHOWN. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION OF THE LEVELING PAD WITH THE FABRICATOR OF THE WALL PANELS.

A03 LANDSCAPING AREA WITH NO MOW OR WILD FLOWER MIX. SEE LANDSCAPING PLANS FOR MORE DETAILS.

A04 LANDSCAPING AREA WITH UNDERSTORY AND CANOPY TREE MIX WITH EVERGREENS. TREES PLACED SO ESTIMATED MAXIMUM DRIP EDGE AND ROOT SPREAD WILL BE OUTSIDE THE REINFORCED SOIL ZONE. SEE LANDSCAPING PLANS FOR MORE DETAILS.

★ SEE ROADWAY CROSS-SECTIONS FOR FINISHED GRADE BEHIND BACK WALL.

■ EXTEND CONCRETE GUTTER 5' BEYOND EACH END OF WALL

◓ PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN. TO INLET 22.1. ATTACH RODENT SHIELD AT FREE ENDS OF PIPE UNDERDRAIN AS DETAILED ON SDD REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN.

TYPICAL SECTION

(LOOKING UPSTATION)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-5-102

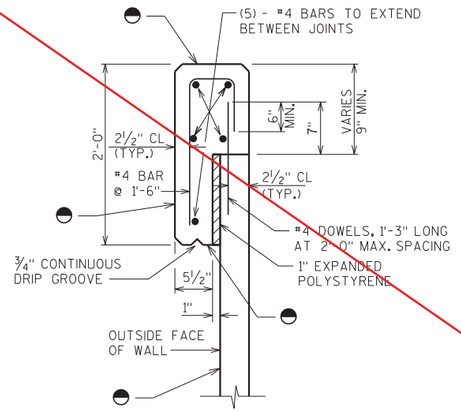
DRAWN BY TAV | PLANS CK'D. GAR

TYPICAL SECTION

SHEET 2 OF 5
370

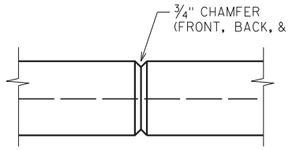
STATE PROJECT NUMBER

9210-11-71



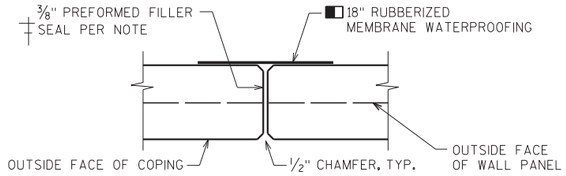
CAST-IN-PLACE CONCRETE COPING DETAIL

◓ ARCHITECTURAL SURFACE TREATEMENT AND/OR CONCRETE STAINING MULTI-COLOR, SEE SHEET 5 FOR DETAILS.



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12'

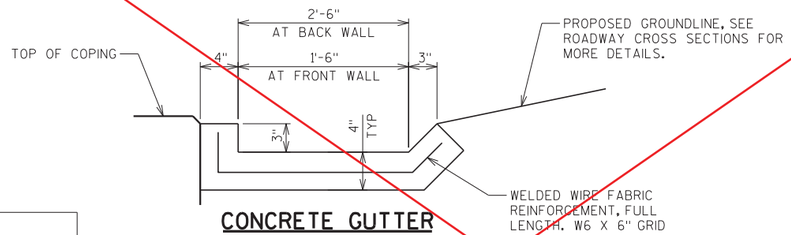


COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.



CONCRETE GUTTER

MAX SPACING OF CONTRACTION JOINTS = 12'

CONTRACTION JOINTS SHALL BE CONSTRUCTED AS PROVIDED UNDER SECTION 601.3.4 OF THE STANDARD SPECIFICATIONS.

DO NOT RUN BAR STEEL THRU CONSTRUCTION JOINT.

DESIGN DATA

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON SHEETS 1 AND 2.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN ON THE ROADWAY PLAN CROSS SECTIONS.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

CONCRETE AND REINFORCEMENT FOR COPING TO BE INCLUDED IN THE BID ITEM "WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH".

CONCRETE GUTTER AND WELDED WIRE FABRIC PAID FOR UNDER THE BID ITEM "CONCRETE MASONRY RETAINING WALLS".

MATERIAL PROPERTIES:

CONCRETE MASONRY RETAINING WALLS ——— f'c = 3500 psi
HIGH STRENGTH BAR STEEL REINFORCEMENT ——— fy = 60000 psi

WALL EXTERNAL STABILITY EVALUATION **

DIMENSIONS		
LOCATION	FRONT WALL	BACK WALL
WALL HEIGHT (FEET)	8.5	11.0
EXPOSED WALL HEIGHT (FEET)	6.5	9.0
MINIMUM LENGTH OF REINFORCEMENT (FEET)	8.0	8.0
WALL STATION	2+50.00 FW	2+50.00 BW
BORING USED	4-09	4-09
CAPACITY TO DEMAND RATIO (CDR)		
SLIDING (CDR>1.0)	3.2	2.5
ECCENTRICITY (CDR>1.0)	5.7	3.4
BEARING (CDR>1.0)	5.2	3.8
GLOBAL STABILITY (CDR>1.0)	1.6	1.6

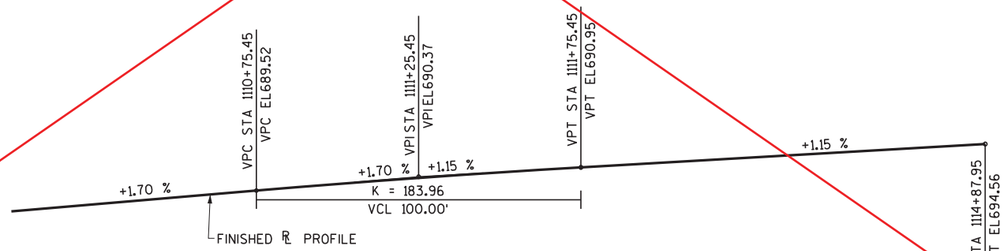
** FINAL DESIGN FOR INTERNAL AND EXTERNAL STABILITY IS THE RESPONSIBILITY OF THE WALL DESIGNER AND MAY DIFFER FROM THE VALUES PROVIDED IN THE TABLE.

SOIL PARAMETERS

SOIL DESCRIPTIONS	SOIL UNIT WEIGHT (pcf)	COHESION (psf)	ANGLE OF INTERNAL FRICTION (DEGREES)
FOUNDATION SOIL (SILTY CLAY)	130	1,000	26
RETAINED SOIL (SILTY CLAY) *	130	1,000	26
MSE BACKFILL	120	0	30

* DESIGN WALL FOR THESE VALUES

ULTIMATE BEARING CAPACITY = 9,000 PSF



PROFILE GRADE LINE - ℄ STH 54

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	CAT. 40 TOTAL	CAT. 60 TOTAL	GRAND TOTAL
206.3000	EXCAVATION FOR STRUCTURES RETAINING WALLS R-5-102	LS	1	---	1
206.6000.S	TEMPORARY SHORING	SF	1370	---	1370
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	27	---	27
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	5	---	5
517.1015.S.02	CONCRETE STAINING MULTI-COLOR (R-05-0102)	SF	---	5960	5960
532.0500.S	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH	SF	5180	---	5180
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	765	---	765
SPV.0165.08	ARCHITECTURAL SURFACE TREATMENT (RETAINING WALL CSD)	SF	---	3410	3410
NON-BID ITEMS					
NON-BITUMINOUS JOINT SEALER		SIZE	---	---	---
FILLER		SIZE	---	---	3/8" & 1"

CURVE DATA

℄ STH 54 CURVE NO. 29

P.I. = 1108+19.70
Y 561208.00
X 56517.11
Δ. = -72°02'23"
D. = 10°48'38"
T. = 385.35'
L. = 666.39'
R. = 530.00'
P.C. = 1104+34.36
P.T. = 1111+00.74
S.E. = N/A

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-5-102

DRAWN BY TAV | PLANS CK'D. GAR

DESIGN DATA, DETAILS, & QUANTITIES

SHEET 3 OF 5
371

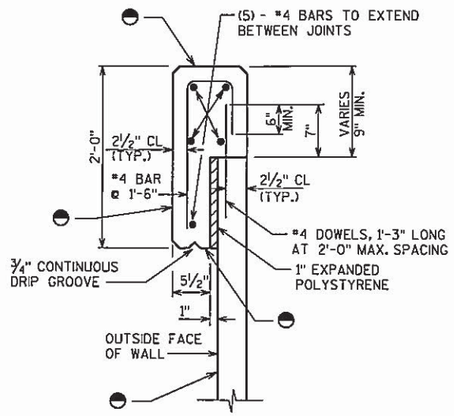
8

8

FILE NAME : X:±23046-70±08037±TECH±CADD±dwg±080203_qu.dgn PLOT DATE : 1/5/2012 PLOT BY : 1253tav PLOT SCALE : 8.00 '/ in.

STATE PROJECT NUMBER

9210-11-71



CAST-IN-PLACE CONCRETE COPING DETAIL

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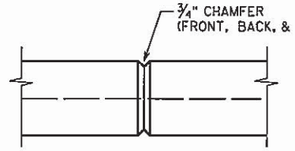

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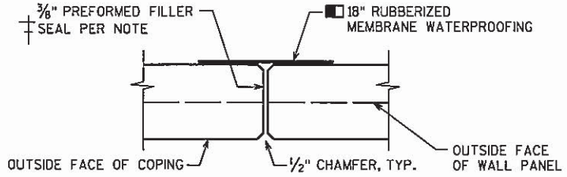
MAX. SPACING OF JOINT = 12'



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MAX. SPACING OF JOINT = 50'

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)

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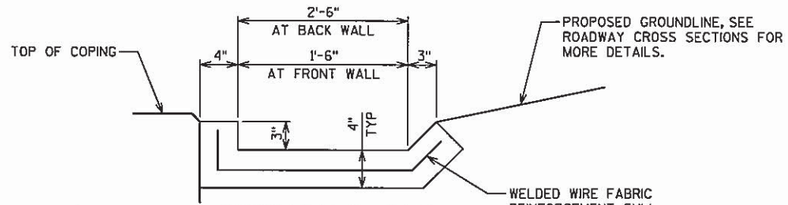

CONCRETE GUTTER

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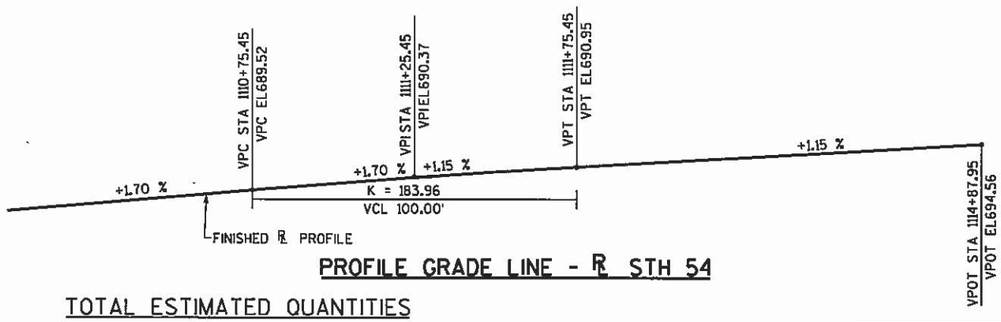

PROFILE GRADE LINE - ℄ STH 54

WALL EXTERNAL STABILITY EVALUATION **

DIMENSIONS		
LOCATION	FRONT WALL	BACK WALL
WALL HEIGHT (FEET)	8.5	11.0
EXPOSED WALL HEIGHT (FEET)	6.5	9.0
MINIMUM LENGTH OF REINFORCEMENT (FEET)	8.0	8.0
WALL STATION	2+50.00 FW	2+50.00 BW
BORING USED	4-09	4-09
CAPACITY TO DEMAND RATIO (CDR)		
SLIDING (CDR>1.0)	3.2	2.5
ECCENTRICITY (CDR>1.0)	5.7	3.4
BEARING (CDR>1.0)	5.2	3.8
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SOIL PARAMETERS

SOIL DESCRIPTIONS	SOIL UNIT WEIGHT (pcf)	COHESION (psf)	ANGLE OF INTERNAL FRICTION (DEGREES)
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MSE BACKFILL	120	0	30

* DESIGN WALL FOR THESE VALUES

ULTIMATE BEARING CAPACITY = 9,000 PSF

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	CAT. 40 TOTAL	CAT. 60 TOTAL	GRAND TOTAL
206.3000	EXCAVATION FOR STRUCTURES RETAINING WALLS R-5-102	LS	1	—	1
206.6000.S	TEMPORARY SHORING	SF	1370	—	1370
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	27	—	27
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	5	—	5
517.1015.S.02	CONCRETE STAINING MULTI-COLOR (R-05-0102)	SF	—	5960	5960
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	765	—	765
SPV.0165.08	ARCHITECTURAL SURFACE TREATMENT (RETAINING WALL CSD)	SF	—	3410	3410
SPV.0165.10	WALL CONCRETE PANEL MECHANICALLY STABILIZED EARTH LRFD	SF	5180	—	5180
NON-BID ITEMS					
NON-BITUMINOUS JOINT SEALER		SIZE	—	—	—
FILLER		SIZE	—	—	3/8" & 1"

WISCONSIN
GARY A. RUCHTI
E-30936
MADISON
WI
PROFESSIONAL ENGINEER
FINAL
2-29-12

William C. Drehkar 02/29/12

CURVE DATA

℄ STH 54 CURVE NO. 29

P.I. = 1108+19.70
Y 561208.00
X 56517.11
Δ. = -72°02'23"
D. = 10°48'38"
T. = 385.35'
L. = 666.39'
R. = 530.00'
P.C. = 1104+34.36
P.T. = 1111+00.74
S.E. = N/A

Addendum No. 2
ID 9210-11-71
Revised Sheet 371
March 5, 2012

NO.	DATE	REVISION	BY
⚠	2-28-12	LRFD MSE WALL BID ITEM CHANGE	TAV

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-5-102

DRAWN BY TAV | PLANS CK'D. GAR

DESIGN DATA, DETAILS, & QUANTITIES

SHEET 3 OF 5

371A

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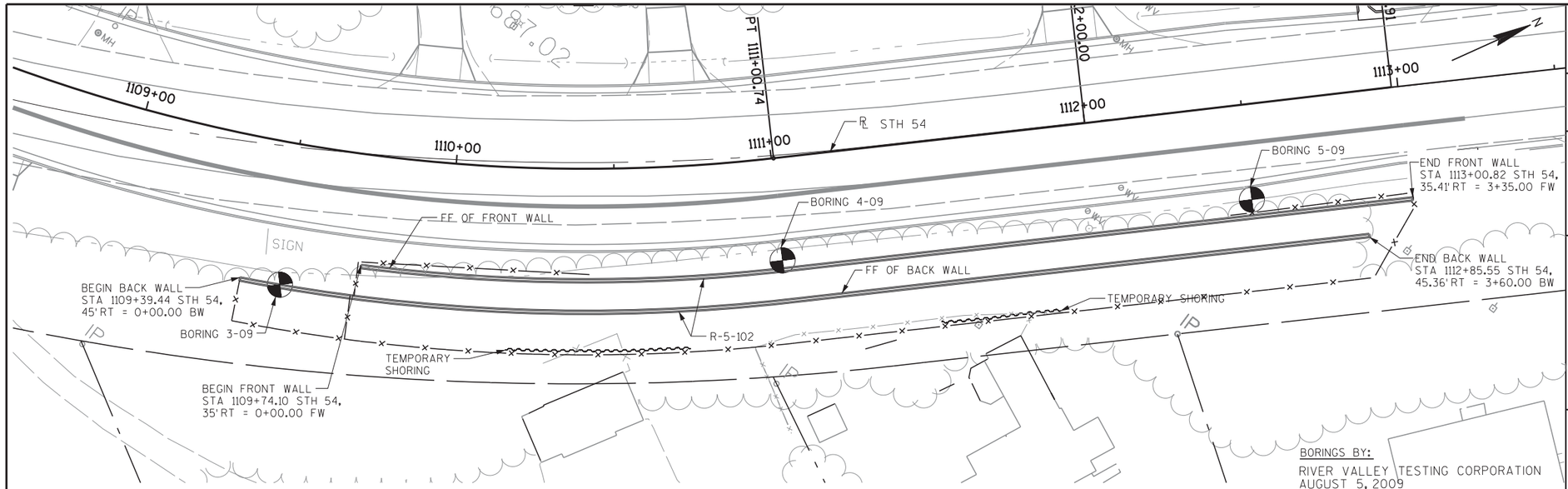
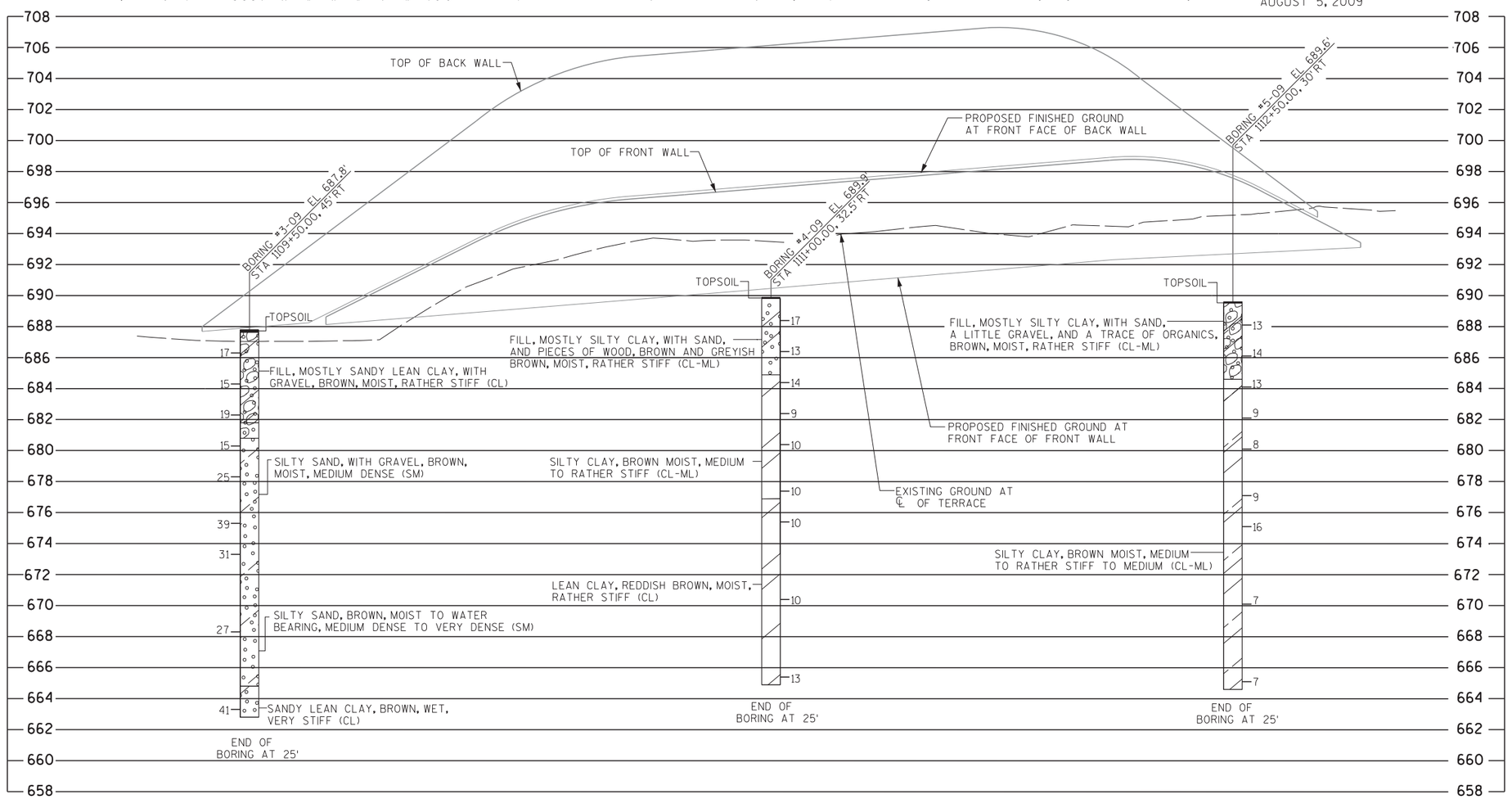
8

FILE NAME : X:±23046-70±08037±TECH±CADD±dwg±080203_qu.dgn PLOT DATE : 2/29/2012 PLOT BY : 1253tav PLOT SCALE : 8.00 '/ In.





STATE PROJECT NUMBER

9210-11-71

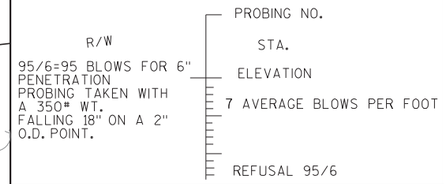
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

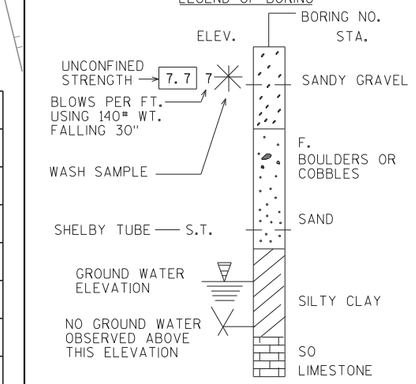
MATERIAL SYMBOLS

TOPSOIL, SILT, SANDSTONE
SAND, PEAT, LIMESTONE
GRAVEL, CLAY, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-5-102

DRAWN BY TAV | PLANS CK'D. GAR

SUBSURFACE EXPLORATION

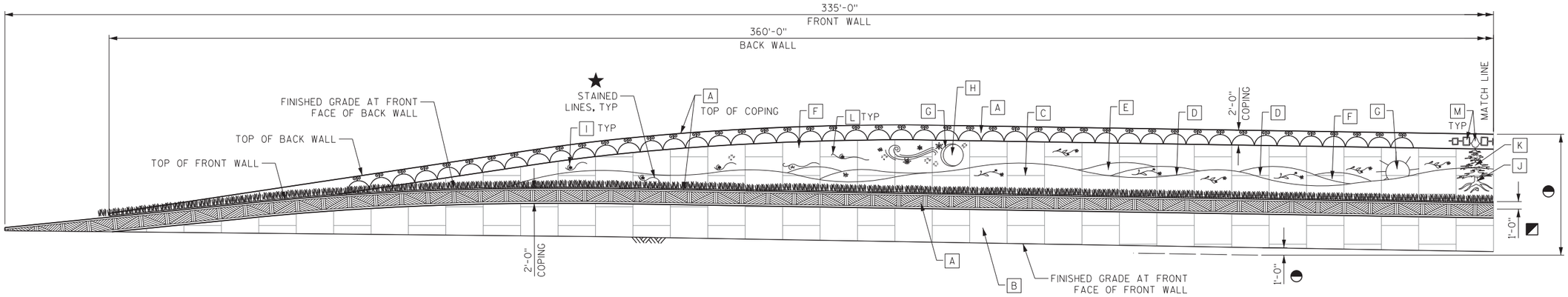
SHEET 4 OF 5
372

8

8

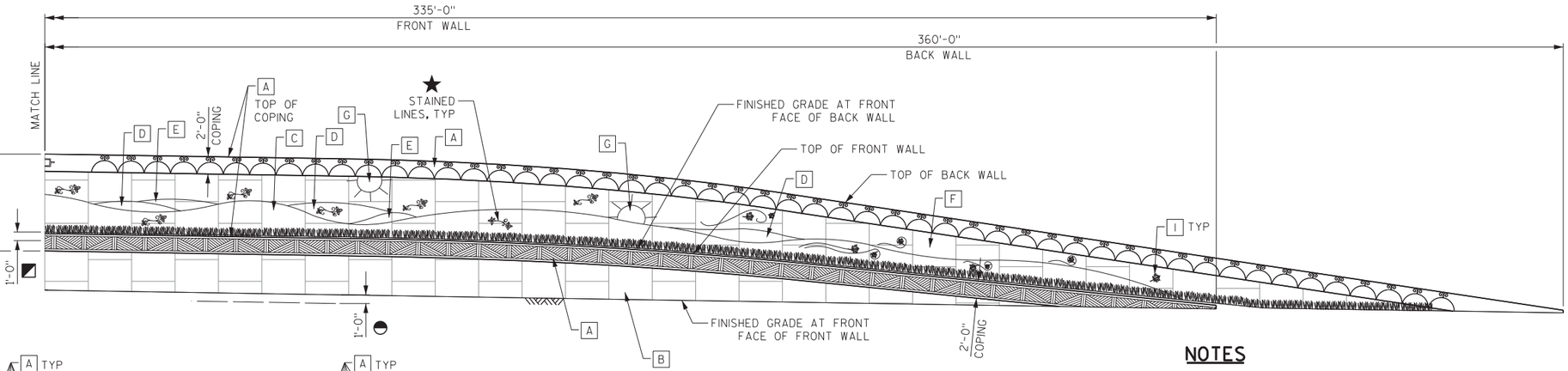
STATE PROJECT NUMBER

9210-11-71



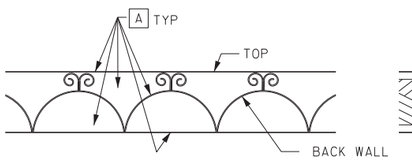
ELEVATION VIEW - NORTH HALF OF WALLS

(LOOKING AT FRONT FACE OF WALLS FROM STH 54)

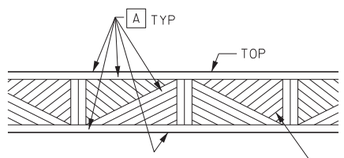


ELEVATION VIEW - SOUTH HALF OF WALLS

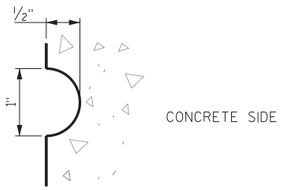
(LOOKING AT FRONT FACE OF WALLS FROM STH 54)



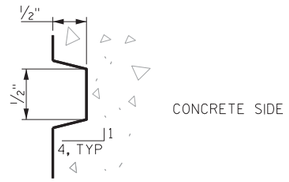
BACK WALL COPING



FRONT WALL COPING



TYPICAL BACK WALL RUSTICATION GROOVE



TYPICAL FRONT WALL RUSTICATION GROOVE

NOTES

SEE SPECIAL PROVISIONS FOR AESTHETIC TREATMENT TO WALL.

FINISH ON ALL COLORS IS TO BE LUSTERLESS.

◓ WALL PANEL AND COPING STAINING TO EXTEND 1'-0" BELOW FINISHED GRADE AND PAID FOR UNDER BID ITEM "CONCRETE STAINING MULTI-COLOR (R-05-0102)".

◭ LIMITS OF "ARCHITECTURAL SURFACE TREATMENT (RETAINING WALL CSD)".

◪ BACK WALL PANELS AND COPING PATTERNS TO EXTEND 1'-0" BELOW FINISHED GRADE AND PAID FOR UNDER BID ITEM ARCHITECTURAL SURFACE TREATMENT (RETAINING WALL CSD)".

★ ALL STAINED LINES SHALL BE DEFINED BY A MINIMUM 1/2" WIDE BY 1/4" DEEP RECESS AND SHALL BE STAINED COLOR [L] UNLESS OTHERWISE SHOWN OR NOTED.

MARK	COLOR	LOCATION	FEDERAL COLOR	RELIEF (INCHES)
A	ACCENT COLOR #1	COPING	37875	N/A
B	ACCENT COLOR #2	FRONT WALL	35177	0
C	ACCENT COLOR #2	BACK WALL ~ FRONT HILLS	35177	1.125
D	ACCENT COLOR #3	BACK WALL ~ MIDDLE HILLS	35109	0.75
E	ACCENT COLOR #4	BACK WALL ~ BACK HILLS	35526	0.375
F	ACCENT COLOR #5	BACK WALL ~ SKY	33798	0
G	ACCENT COLOR #6	BACK WALL ~ SUN, BACK WALL ~ MOON	33655	0.5
H	ACCENT COLOR #7	BACK WALL ~ MOON	37875	0.5
I	ACCENT COLOR #7	BACK WALL ~ PLANTS	37875	VARIES
J	ACCENT COLOR #7	BACK WALL ~ TREE ROOTS	37875	1.125
K	ACCENT COLOR #8	BACK WALL ~ TREE	34090	1.125
L	ACCENT COLOR #9	FINE DETAIL LINES	37038	VARIES
M	ACCENT COLOR #10	COPING ~ RECESSED PANELS	37875	-0.5

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-5-102

DRAWN BY TAV | PLANS CK'D. GAR

AESTHETIC DETAILS

SHEET 5 OF 5
373

8

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FILE NAME : X:±23046-70±08037±TECH±CADD±dwg±080205_ad.dgn PLOT DATE : 1/5/2012 PLOT BY : 1253tav PLOT SCALE : 15.0000 sf / in.

EARTHWORK TABULATION - STH 54 (STAGE 1 - TEMP. WIDENING) EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
882+00.00	36.76	35.55	0	0	0	0	0
882+50.00	36.85	28.82	68	77	68	77	-9
883+00.00	36.76	26.83	68	67	136	144	-8
883+50.00	18.57	2.74	51	36	188	180	7
884+00.00	27.17	12.73	42	19	230	199	31
884+50.00	35.22	31.01	58	53	288	251	36
885+00.00	41.38	48.76	71	96	359	347	11
885+50.00	43.73	61.10	79	132	437	480	-42
886+00.00	44.97	86.51	82	178	520	657	-138
886+50.00	46.36	62.82	85	180	604	837	-233
887+00.00	44.96	56.31	85	143	689	980	-292
887+50.00	44.63	51.09	83	129	772	1110	-338
888+00.00	44.77	49.06	83	121	854	1230	-376
888+49.09	44.53	46.20	81	113	936	1343	-407
888+50.00	44.56	46.24	2	2	937	1345	-408
889+00.00	44.95	52.15	83	118	1020	1463	-443
889+46.65	46.28	54.41	79	120	1099	1583	-484
889+50.00	47.83	56.57	6	9	1105	1592	-487
890+00.00	49.13	67.78	90	150	1194	1742	-547
890+50.00	58.50	86.70	100	186	1294	1928	-634
891+00.00	67.99	105.55	117	231	1411	2159	-748
891+50.00	75.86	120.71	133	272	1544	2431	-887
891+85.38	76.33	110.21	100	197	1644	2628	-984
892+00.00	75.62	99.05	41	74	1685	2702	-1016
892+50.00	71.97	77.00	137	212	1822	2914	-1092
893+00.00	70.19	73.99	132	182	1953	3095	-1142
893+50.00	77.55	78.32	137	183	2090	3279	-1188
893+92.34	79.01	74.91	123	156	2213	3435	-1222
894+00.00	79.84	74.26	23	28	2236	3462	-1227
894+50.00	93.55	61.21	161	163	2396	3625	-1229
		TOTAL	2396	3625			

EARTHWORK TABULATION - STH 54 (STAGE 1 - TEMP. WIDENING) EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
894+50.00	93.55	61.21	0	0	0	0	0
894+54.72	97.23	59.23	17	14	17	14	3
895+00.00	46.41	0.40	120	65	137	79	58
895+50.00	69.54	0.35	107	1	244	80	165
895+71.27	62.14	0.38	52	0	296	80	216
896+00.00	49.43	9.02	59	7	356	86	269
896+44.53	47.00	44.55	80	57	435	144	291
896+50.00	47.13	46.89	10	12	445	156	289
897+00.00	48.57	51.04	89	118	533	274	260
		TOTAL	533	274			

EARTHWORK TABULATION - STH 54 (STAGE 1 - TEMP. WIDENING) EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
897+00.00	48.57	51.04	0	0	0	0	0
897+41.07	52.17	36.24	77	86	77	86	-10
897+50.00	53.10	33.34	17	15	94	101	-7
897+67.70	54.96	24.56	35	25	129	126	4
898+00.00	57.16	23.75	67	38	197	163	33
898+50.00	54.05	22.50	103	56	299	219	80
899+00.00	47.59	30.95	94	64	394	284	110
899+50.00	39.73	34.06	81	78	474	362	113
899+70.84	36.62	49.06	29	42	504	403	100
900+00.00	32.76	32.53	37	57	541	461	81
900+50.00	29.58	30.38	58	76	599	536	63
901+00.00	28.25	27.04	54	69	653	606	47
901+13.30	28.33	23.12	14	16	667	622	45
901+50.00	27.93	20.76	38	39	705	660	44
901+92.07	20.22	16.67	38	38	742	698	44
902+00.00	19.76	17.45	6	7	748	705	43
902+50.00	18.73	17.00	36	41	784	746	38
903+00.00	17.73	14.26	34	38	818	784	34
903+02.00	18.07	14.88	1	1	819	785	34
903+50.00	15.93	22.06	30	43	849	828	21
904+00.00	14.44	51.16	28	88	877	916	-39
904+50.00	12.88	83.62	25	162	903	1078	-176
905+00.00	16.98	112.08	28	236	930	1314	-384
905+50.00	12.08	148.91	27	314	957	1628	-671
906+00.00	12.38	215.12	23	438	980	2066	-1087
906+50.00	13.59	364.02	24	697	1004	2763	-1760
907+00.00	13.78	249.47	25	738	1029	3502	-2473
907+50.00	13.99	137.04	26	465	1055	3967	-2912
908+00.00	18.03	51.34	30	227	1085	4194	-3109
908+50.00	18.62	37.95	34	107	1118	4301	-3183
909+00.00	18.81	31.30	35	83	1153	4385	-3232
909+50.00	18.79	30.71	35	75	1188	4459	-3271
910+00.00	18.36	26.47	34	69	1222	4528	-3306
		TOTAL	1222	4528			

Addendum No. 2
ID 9210-11-71
New Sheet 373A
March 5, 2012

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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EARTHWORK	SHEET 373A	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\090101_ew (DLZ).dgn PLOT DATE : 2/28/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 200 ' / in.

WISDOT/CADDS SHEET 49

EARTHWORK TABULATION - STH 54 (STAGE 2 - TEMP. WIDENING) EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
882+00.00	0.00	0.00	0	0	0	0	0
882+50.00	0.00	0.00	0	0	0	0	0
883+00.00	0.00	0.00	0	0	0	0	0
883+50.00	0.00	0.00	0	0	0	0	0
884+00.00	0.00	0.00	0	0	0	0	0
884+50.00	0.00	0.00	0	0	0	0	0
885+00.00	0.00	0.00	0	0	0	0	0
885+50.00	0.00	0.00	0	0	0	0	0
886+00.00	43.69	40.09	40	48	40	48	-8
886+50.00	43.70	72.56	81	136	121	184	-62
887+00.00	40.60	73.00	78	175	199	359	-160
887+50.00	40.22	18.75	75	110	274	470	-195
888+00.00	34.41	23.81	69	51	343	521	-177
888+49.09	31.67	39.22	60	74	403	595	-192
888+50.00	31.60	41.09	1	2	404	597	-192
889+00.00	29.91	42.22	57	100	461	697	-236
889+46.65	31.02	36.28	53	88	514	785	-271
889+50.00	31.22	35.23	4	6	518	791	-273
890+00.00	29.09	37.25	56	87	574	878	-305
890+50.00	30.53	43.27	55	97	629	975	-346
891+00.00	33.54	37.15	59	97	688	1072	-384
891+50.00	43.35	16.94	71	65	760	1137	-378
891+85.38	47.74	27.71	60	38	819	1175	-356
892+00.00	47.87	27.59	26	19	845	1195	-350
892+50.00	34.69	19.83	76	57	922	1252	-330
893+00.00	27.49	0.26	58	24	979	1276	-297
893+50.00	11.57	49.26	36	60	1015	1336	-320
893+92.34	12.59	52.97	19	104	1034	1440	-406
894+00.00	12.57	53.45	4	20	1038	1459	-422
894+50.00	6.84	64.49	18	142	1056	1601	-546
		TOTAL	1056	1601			

EARTHWORK TABULATION - STH 54 (STAGE 2 - TEMP. WIDENING) EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
894+50.00	6.84	64.49	0	0	0	0	0
894+54.72	7.41	67.70	1	15	1	15	-14
895+00.00	9.87	109.00	14	193	16	208	-192
895+50.00	86.11	80.45	89	228	105	436	-331
895+71.27	91.86	22.64	70	53	175	488	314
896+00.00	106.71	1.64	106	17	280	505	-225
896+44.53	39.89	67.52	121	74	401	579	-178
896+50.00	36.74	77.76	8	19	409	599	-190
897+00.00	48.38	39.95	79	142	488	740	-252
		TOTAL	488	740			

EARTHWORK TABULATION - STH 54 (STAGE 2 - TEMP. WIDENING) EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
897+00.00	48.38	39.95	0	0	0	0	0
897+41.07	57.53	27.86	81	67	81	67	14
897+50.00	52.59	29.42	18	12	99	79	19
897+67.70	38.73	35.17	30	28	129	107	22
898+00.00	21.93	37.14	36	56	165	163	2
898+50.00	12.94	32.81	32	84	197	247	-50
899+00.00	5.87	53.96	17	104	215	352	-137
899+50.00	6.48	51.01	11	126	226	478	-252
899+70.84	7.10	55.68	5	54	231	532	-300
900+00.00	8.78	65.51	9	85	240	617	-377
900+50.00	13.58	90.36	21	188	261	804	-544
901+00.00	13.29	132.74	25	269	286	1073	-787
901+13.30	13.29	143.02	7	88	292	1161	-869
901+50.00	13.34	162.75	18	270	310	1431	-1121
901+92.07	18.72	152.35	25	319	335	1750	-1415
902+00.00	19.62	158.34	6	59	341	1810	-1469
902+50.00	24.31	186.27	41	415	381	2225	-1843
903+00.00	27.63	144.54	48	398	430	2623	-2193
903+02.00	27.61	142.09	2	14	432	2637	-2205
903+50.00	27.05	111.04	49	293	480	2929	-2449
904+00.00	29.42	77.19	52	227	532	3156	-2623
904+50.00	30.22	52.08	55	156	588	3311	-2724
905+00.00	32.63	1.45	58	64	646	3376	-2730
905+50.00	32.08	24.79	60	32	706	3407	-2701
906+00.00	28.91	32.06	56	68	762	3476	-2713
906+50.00	26.88	38.84	52	85	814	3561	-2747
907+00.00	26.92	29.12	50	82	864	3643	-2779
908+00.00	34.19	15.81	113	108	977	3751	-2774
908+50.00	34.92	15.63	64	38	1041	3789	-2748
909+00.00	33.18	20.16	63	43	1104	3832	-2728
909+50.00	32.21	21.68	61	50	1164	3882	-2718
910+00.00	41.48	23.52	68	54	1233	3937	-2704
		TOTAL	1233	3937			

EARTHWORK TABULATION - SEMINARY RD. NORTH (STAGE 2) EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
16+00.00	288.50	21.60	0	0	0	0	0
16+50.00	225.24	0.00	476	26	476	26	450
16+68.55	310.38	0.00	184	0	660	26	634
17+00.00	135.81	2.37	260	2	920	28	892
17+02.64	132.20	4.56	13	0	933	28	904
17+50.00	119.89	0.08	221	5	1154	34	1120
17+75.00	91.92	0.27	98	0	1252	34	1218
18+00.00	76.69	0.00	78	0	1330	34	1296
18+50.00	74.54	0.00	140	0	1470	34	1436
19+00.00	73.46	0.00	137	0	1607	34	1573
19+50.00	114.95	0.00	174	0	1781	34	1748
20+00.00	127.32	0.00	224	0	2006	34	1972
20+30.00	123.72	0.00	139	0	2145	34	2111
		TOTAL	2145	34			

Addendum No. 2, ID 9210-11-71
New Sheet 373B, March 5, 2012

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EARTHWORK	SHEET 373B	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\090102_ew (DLZ).dgn PLOT DATE : 2/28/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 200 ' / in.
WISDOT/CADDS SHEET 49

EARTHWORK TABULATION - STH 54 (STAGES 3 & 4) EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
882+00.00	35.55	0.00	0	0	0	0	0
882+50.00	28.82	0.09	60	0	60	0	59
883+00.00	26.83	0.00	52	0	111	0	111
883+50.00	2.74	0.42	27	1	139	1	138
884+00.00	12.73	0.00	14	1	153	1	152
884+50.00	31.01	0.00	41	0	193	1	192
885+00.00	48.76	0.02	74	0	267	1	266
885+50.00	61.10	0.00	102	0	369	1	368
886+00.00	213.23	3.47	254	4	623	5	617
886+50.00	233.64	4.64	414	10	1037	15	1021
887+00.00	214.69	3.72	415	9	1452	25	1427
887+50.00	275.80	2.94	454	7	1906	32	1874
888+00.00	176.97	1.40	419	5	2325	37	2288
888+50.00	187.09	12.05	337	16	2662	53	2609
889+00.00	199.56	0.60	358	15	3020	68	2952
889+50.00	193.33	0.63	364	1	3384	70	3314
890+00.00	197.87	0.77	362	2	3746	72	3675
890+50.00	178.48	10.77	348	14	4095	86	4009
891+00.00	190.34	7.41	342	22	4436	107	4329
891+50.00	235.18	3.86	394	14	4830	121	4709
892+00.00	273.96	4.08	471	10	5302	131	5171
892+50.00	283.38	19.66	516	29	5818	159	5659
893+00.00	282.93	5.08	524	30	6342	189	6153
893+50.00	251.59	37.00	495	51	6837	240	6597
894+00.00	223.40	13.51	440	61	7277	300	6977
894+50.00	200.79	16.93	393	37	7670	337	7333
		TOTAL	7670	337			

EARTHWORK TABULATION - STH 54 (STAGES 3 & 4) EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
894+50.00	200.79	16.93	0	0	0	0	0
895+00.00	290.48	65.35	455	99	455	99	356
895+50.00	365.60	59.58	607	150	1062	249	813
896+00.00	413.16	76.25	721	163	1783	413	1371
896+50.00	301.45	115.27	662	231	2445	643	1802
897+00.00	166.86	95.71	434	253	2879	897	1982
		TOTAL	2879	897			

EARTHWORK TABULATION - STH 54 (STAGES 3 & 4) EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
897+00.00	166.86	95.11	0	0	0	0	0
897+50.00	165.54	47.92	308	172	308	172	136
898+00.00	175.66	53.14	316	122	624	294	330
898+50.00	165.54	13.58	316	80	940	374	566
899+00.00	165.21	6.67	306	24	1246	398	847
899+50.00	164.54	8.09	305	18	1551	416	1135
900+00.00	162.62	25.93	303	41	1854	457	1397
900+50.00	158.61	23.45	297	59	2152	517	1635
901+00.00	145.86	52.08	282	91	2433	608	1826
901+50.00	160.91	90.52	284	172	2718	779	1938
902+00.00	136.70	98.06	276	227	2993	1006	1987
902+50.00	132.61	94.43	249	232	3242	1238	2005
903+00.00	131.83	52.07	245	176	3487	1414	2073
903+50.00	142.18	18.88	254	85	3741	1500	2241
904+00.00	178.55	3.19	297	27	4038	1526	2512
904+50.00	196.44	4.88	347	10	4385	1536	2849
905+00.00	288.97	10.23	449	18	4835	1554	3281
905+50.00	219.69	3.94	471	17	5306	1571	3734
906+00.00	231.61	3.75	418	9	5724	1580	4143
906+50.00	327.93	4.40	518	10	6242	1590	4651
907+00.00	308.45	3.30	589	9	6831	1600	5231
907+50.00	239.58	1.58	507	6	7338	1605	5733
908+00.00	126.98	12.31	339	17	7678	1622	6056
908+50.00	129.40	2.73	237	18	7915	1640	6275
909+00.00	126.65	2.37	237	6	8152	1646	6506
909+50.00	127.29	2.42	235	6	8387	1652	6735
910+00.00	132.35	6.98	240	11	8628	1663	6964
		TOTAL	8628	1663			

EARTHWORK TABULATION - SEMINARY RD. SOUTH (STAGE 3) EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
11+00.00	105.38	0.82	0	0	0	0	0
11+20.00	119.63	0.00	83	0	83	0	83
11+50.00	149.53	0.00	150	0	233	0	232
11+83.44	195.66	0.00	214	0	447	0	446
12+00.00	114.78	0.00	95	0	542	0	541
12+50.00	163.15	0.00	257	0	799	0	799
12+50.43	163.62	0.00	3	0	802	0	801
13+00.00	206.77	0.00	340	0	1142	0	1141
13+50.00	211.26	0.00	387	0	1529	0	1528
13+68.11	220.13	0.00	145	0	1674	0	1673
14+00.00	273.60	0.15	292	0	1965	1	1965
		TOTAL	1965	1			

9210-11-71
Addendum #1
Revised Sheet 373C
2/28/2012

Addendum No. 2, ID 9210-11-71
New Sheet 373C, March 5, 2012

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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EARTHWORK	SHEET 373C	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\090103_ew (DLZ).dgn PLOT DATE : 2/28/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 200 ' / in.

EARTHWORK TABULATION - STH 54 (STAGE 1 - TEMP. WIDENING) EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
1086+61.41	8.01	12.96	0	0	0	0	0
1086+74.54	8.63	11.24	4	8	4	8	-4
1087+00.00	9.50	2.56	9	8	13	16	-4
1087+50.00	10.74	5.76	19	10	31	26	5
1088+00.00	10.46	7.07	20	15	51	42	9
1088+24.54	11.52	6.54	10	8	61	50	11
1088+50.00	11.88	7.80	11	9	72	59	14
1089+00.00	12.66	7.03	23	18	95	76	18
1089+50.00	12.06	10.08	23	21	118	97	21
1090+00.00	9.34	16.97	20	33	137	130	8
1090+50.00	24.59	0.00	31	20	169	150	19
1091+00.00	22.56	0.00	44	0	213	150	63
1091+20.00	21.76	0.00	16	0	229	150	79
1091+50.00	13.54	0.00	20	0	249	150	99
1092+00.00	0.00	0.00	13	0	261	150	111
1107+75.00	5.99	0.00	0	0	261	150	111
1108+00.00	11.41	0.00	8	0	269	150	119
1108+50.00	13.43	1.24	23	1	292	151	141
1108+60.00	31.06	1.80	8	1	300	152	148
1108+85.00	10.59	7.72	19	6	320	158	162
1109+00.00	10.22	12.32	6	7	325	165	160
1109+25.00	9.35	11.73	9	14	334	180	155
1109+50.00	10.51	8.65	9	12	344	192	152
1109+90.00	10.57	10.42	16	18	359	210	149
1110+00.00	10.05	9.46	4	5	363	215	148
1110+50.00	21.43	5.18	29	18	392	233	159
1110+70.00	23.15	4.07	17	4	409	237	172
1111+00.00	22.59	4.53	25	6	434	243	191
1111+50.00	25.86	1.71	45	8	479	251	228
1112+00.00	20.96	6.74	43	10	522	261	261
1112+50.00	41.81	0.00	58	8	580	269	311
1113+00.00	28.80	0.21	65	0	646	269	376
		TOTAL	646	269			

EARTHWORK TABULATION - STH 54 (STAGE 2) EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
1086+61.41	49.29	15.08	0	0	0	0	0
1086+74.54	50.20	13.24	25	9	25	9	15
1087+00.00	53.27	1.34	49	9	73	18	55
1087+50.00	55.79	1.41	101	3	174	21	153
1088+00.00	54.32	2.63	102	5	276	26	250
1088+24.54	53.04	3.08	49	3	325	30	295
1088+50.00	50.03	0.00	49	2	374	31	342
1089+00.00	61.55	0.00	103	0	477	31	445
1089+22.00	61.37	0.00	50	0	527	31	496
1090+00.00	145.04	0.00	0	0	527	31	496
1090+50.00	84.74	1.05	213	1	740	33	707
1091+00.00	98.02	0.00	169	1	909	34	875
1091+20.00	124.39	0.00	82	0	991	34	957
1091+50.00	85.83	41.07	117	30	1108	64	1045
1092+00.00	76.01	88.67	150	156	1258	220	1038
1092+50.00	54.51	99.75	121	227	1379	447	932
1093+00.00	14.49	150.54	64	301	1443	748	695
1093+50.00	12.02	282.60	25	521	1467	1269	198
1094+00.00	6.71	431.31	17	859	1485	2129	-644
1094+00.00	10.56	431.31	0	0	1485	2129	-644
1094+50.00	7.50	595.28	17	1236	1501	3364	-1863
1095+00.00	13.26	744.01	19	1612	1521	4976	-3456
1095+50.00	18.59	904.89	29	1985	1550	6961	-5411
1096+00.00	24.25	1107.84	40	2423	1590	9384	-7794
1096+50.00	28.95	1430.01	49	3055	1639	12439	-10800
1097+00.00	41.01	1673.22	65	3735	1704	16174	-14470
1097+50.00	18.69	1860.37	55	4253	1759	20428	-18668
1098+00.00	14.94	1749.28	31	4345	1790	24772	-22982
1098+42.94	14.94	1749.28	24	3617	1814	28389	-26575
1100+49.04	0.00	281.32	0	0	1814	28389	-26575
1100+50.00	0.00	281.32	0	13	1814	28402	-26588
1101+00.00	0.00	441.89	0	871	1814	29273	-27459
1101+50.00	0.00	551.96	0	1196	1814	30469	-28655
1101+55.00	0.00	474.74	0	124	1814	30592	-28779
1102+00.00	12.74	395.65	11	943	1825	31535	-29711
1102+50.00	20.95	308.45	31	848	1856	32383	-30527
1103+00.00	0.29	130.97	20	529	1875	32912	-31036
1103+50.00	147.05	20.96	136	183	2012	33095	-31083
1104+00.00	202.85	14.21	324	42	2336	33137	-30801
1104+07.00	201.75	18.06	52	5	2388	33143	-30754
1104+50.00	260.31	29.76	368	50	2756	33192	-30436
1105+00.00	261.68	25.40	483	66	3240	33258	-30019
1105+50.00	200.80	0.00	428	31	3668	33289	-29621
1105+75.00	207.03	0.00	189	0	3857	33289	-29432
1105+75.00	120.14	0.00	0	0	3857	33289	-29432
1106+00.00	120.14	0.00	111	0	3968	33289	-29321
1106+50.00	122.76	0.00	225	0	4193	33289	-29096
1107+00.00	115.88	0.00	221	0	4414	33289	-28875
1107+50.00	65.05	0.00	168	0	4581	33289	-28708
1107+75.00	64.78	0.11	60	0	4641	33289	-28648
1108+00.00	59.72	0.83	58	1	4699	33290	-28591
1108+50.00	51.34	3.75	103	6	4802	33295	-28493
1108+60.00	51.85	7.61	19	3	4821	33298	-28477
1108+85.00	71.61	1.11	57	5	4878	33303	-28425

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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EARTHWORK	SHEET 374	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\090101_ew.dgn PLOT DATE : 10/31/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 200 ' / in.

WISDOT/CADDS SHEET 49

EARTHWORK TABULATION - STH 54 (STAGE 2) (CONTINUED) EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
1109+00.00	61.05	16.16	37	6	4915	33309	-28394
1109+25.00	58.99	21.26	56	23	4970	33332	-28361
1109+50.00	64.16	25.01	57	28	5028	33360	-28332
1109+90.00	66.13	10.02	97	34	5124	33393	-28269
1110+00.00	66.81	11.83	25	5	5149	33399	-28250
1110+50.00	55.83	26.88	114	47	5262	33445	-28183
1110+70.00	54.12	13.34	41	19	5303	33465	-28162
1111+00.00	44.35	39.59	55	38	5358	33503	-28145
1111+50.00	43.85	27.58	82	81	5439	33584	-28144
1112+00.00	49.44	11.11	86	47	5526	33630	-28105
1112+50.00	44.55	30.77	87	50	5613	33681	-28068
1113+00.00	47.64	4.75	85	43	5698	33723	-28025
		TOTAL	5698	33723			

EARTHWORK TABULATION - STH 54 (STAGES 3 & 4) EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
1086+61.41	37.97	29.53	0	0	0	0	0
1086+74.54	36.50	29.26	18	19	18	19	0
1087+00.00	36.35	21.28	34	31	53	50	3
1087+50.00	32.72	40.48	64	74	117	124	-7
1088+00.00	25.16	48.91	54	108	170	232	-62
1088+24.54	19.78	61.59	20	65	191	297	-106
1088+50.00	17.01	78.87	17	86	208	383	-175
1089+00.00	18.58	84.72	33	197	241	580	-339
1089+22.00	23.75	85.35	17	90	258	670	-412
1089+22.00	77.99	85.35	0	0	258	670	-412
1089+50.00	79.79	86.15	82	116	340	786	-446
1090+00.00	158.24	93.27	220	216	560	1002	-441
1090+00.00	26.19	93.27	0	0	560	1002	-441
1090+50.00	21.29	34.87	44	154	604	1156	-552
1091+00.00	36.37	79.78	53	138	658	1294	-636
1091+20.00	41.83	69.07	29	72	687	1366	-679
1091+50.00	57.46	67.15	55	98	742	1464	-722
1092+00.00	86.78	11.31	134	94	875	1558	-683
1092+50.00	105.47	9.52	178	25	1053	1584	-530
1093+00.00	107.90	1.52	198	13	1251	1597	-346
1093+50.00	69.48	0.21	164	2	1415	1599	-184
1094+00.00	25.67	1.14	88	2	1503	1600	-97
1094+00.00	25.67	1.14	0	0	1503	1600	-97
1094+50.00	20.27	0.13	43	2	1546	1602	-56
1095+00.00	17.07	1.02	35	1	1580	1603	-23
1095+50.00	27.55	1.08	41	3	1622	1606	16
1096+00.00	38.93	0.00	62	1	1683	1607	76
1096+50.00	40.43	0.00	73	0	1757	1607	150
1097+00.00	9.10	0.00	46	0	1803	1607	195
1097+50.00	15.20	0.03	23	0	1825	1607	218
1098+00.00	0.00	0.00	14	0	1839	1607	232
1098+42.94	0.00	0.00	0	0	1839	1607	232
1105+75.00	87.67	0.00	0	0	1839	1607	232
1106+00.00	93.11	0.00	84	0	1923	1607	316
1106+50.00	70.73	0.00	152	0	2075	1607	467
1107+00.00	95.92	0.00	154	0	2229	1607	622
1107+50.00	92.58	0.00	175	0	2404	1607	796
1107+75.00	175.27	0.00	124	0	2528	1607	920
1108+00.00	151.17	2.02	151	1	2679	1609	1070
1108+50.00	197.45	0.00	323	2	3001	1611	1390
1108+60.00	160.49	2.08	66	1	3068	1611	1456
1108+85.00	141.79	3.50	140	3	3208	1615	1593
1109+00.00	157.92	0.67	83	2	3291	1616	1675
1109+25.00	154.49	0.67	145	1	3436	1617	1818
1109+50.00	169.88	4.36	150	3	3586	1620	1966
1109+90.00	207.07	36.47	279	39	3865	1659	2205
1110+00.00	226.16	51.49	80	21	3945	1681	2265
1110+50.00	216.58	25.48	410	93	4355	1773	2582
1110+70.00	207.31	29.49	157	26	4512	1800	2712
1111+00.00	232.96	102.90	245	96	4757	1895	2861
1111+50.00	179.87	31.38	382	162	5139	2057	3082
1112+00.00	210.37	105.12	361	164	5500	2221	3279
1112+50.00	115.33	48.33	302	185	5802	2406	3396
1113+00.00	140.76	20.40	237	83	6039	2489	3550
		TOTAL	6039	2489			

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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	EARTHWORK	SHEET 375	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\090102_ew.dgn PLOT DATE : 10/31/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 200 ' / in.

MARSH EXCAVATION - STH 54 EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
1092+00.00	0.00	0.00	0	0	0	0	0
1092+50.00	29.02	29.02	27	35	27	35	-8
1093+00.00	80.28	80.28	101	132	128	166	-38
1093+50.00	89.24	89.24	157	204	285	371	-86
1094+00.00	146.39	146.39	218	284	503	654	-151
1094+50.00	179.56	179.56	302	392	805	1047	-242
1095+00.00	186.44	186.44	339	441	1144	1487	-343
1095+50.00	211.58	211.58	369	479	1512	1966	-454
1096+00.00	251.46	251.46	429	557	1941	2524	-582
1096+50.00	260.50	260.50	474	616	2415	3140	-725
1097+00.00	228.59	228.59	453	589	2868	3729	-860
1097+50.00	213.95	213.95	410	533	3278	4261	-983
1098+00.00	230.13	230.13	411	535	3689	4796	-1107
1098+50.00	227.35	227.35	424	551	4113	5346	-1234
1100+75.00	0.00	0.00	0	0	4113	5346	-1234
1101+00.00	150.00	150.00	69	90	4182	5437	-1255
1101+50.00	123.20	123.20	253	329	4435	5766	-1331
1101+55.00	113.27	113.27	22	28	4457	5794	-1337
1102+00.00	148.90	148.90	218	284	4675	6078	-1403
1102+50.00	76.50	76.50	209	271	4884	6349	-1465
1103+00.00	0.00	0.00	71	92	4955	6441	-1486
		TOTAL	4955	6441			

EARTHWORK TABULATION - WEST SERVICE RD. EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
16+50.00	76.46	6.84	0	0	0	0	0
17+00.00	87.92	0.00	152	8	152	8	144
17+06.00	104.85	0.00	21	0	174	8	165
17+15.00	111.12	0.00	36	0	210	8	201
17+50.00	75.88	15.71	121	13	331	21	309
17+65.00	93.06	9.83	47	9	378	31	347
18+00.00	79.53	20.13	112	25	490	56	434
18+50.00	89.30	36.27	156	68	646	124	522
19+00.00	106.25	41.28	181	93	827	217	610
19+50.00	128.43	35.03	217	92	1044	309	735
20+00.00	173.64	41.77	280	92	1324	401	923
20+50.00	196.41	38.17	343	96	1667	498	1169
20+60.00	243.03	0.00	81	9	1748	507	1241
21+00.00	247.09	20.79	363	20	2111	527	1584
21+50.00	267.85	8.72	477	36	2588	562	2025
21+85.00	267.85	8.72	347	15	2935	577	2358
		TOTAL	2935	577			

EARTHWORK TABULATION - EAST SERVICE RD. (STAGE 1) EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
22+25.00	121.33	25.55	0	0	0	0	0
22+50.00	97.67	36.17	101	37	101	37	64
23+00.00	87.32	7.85	171	53	273	90	183
23+50.00	77.80	28.66	153	44	426	134	291
24+00.00	48.74	0.00	117	34	543	169	374
		TOTAL	543	169			

EARTHWORK TABULATION - EAST SERVICE RD. (STAGE 2) EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
20+24.00	235.88	0.00	0	0	0	0	0
20+50.00	235.88	0.00	227	0	227	0	227
20+65.00	180.76	10.46	116	4	343	4	339
		TOTAL	343	4			

EARTHWORK TABULATION - EAST SERVICE RD. (STAGE 3) EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
20+65.00	180.76	10.46	0	0	0	0	0
21+00.00	52.15	34.86	151	38	151	38	113
21+50.00	168.41	0.00	204	42	355	80	275
22+00.00	144.98	14.93	290	18	645	98	547
22+25.00	121.33	25.55	123	24	769	122	646
		TOTAL	769	122			

EARTHWORK TABULATION - ARTLEY ST. EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
40+00.00	0.00	0.00	0	0	0	0	0
40+50.00	23.01	0.00	21	0	21	0	21
41+00.00	21.75	0.00	41	0	63	0	63
41+50.00	63.18	0.00	79	0	141	0	141
42+00.00	5.45	4.01	64	5	205	5	200
42+50.00	0.00	47.78	5	62	210	67	143
43+00.00	0.00	167.32	0	259	210	326	-116
43+30.00	0.00	167.32	0	242	210	568	-358
		TOTAL	210	568			

EARTHWORK TABULATION - ELM ST. EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
30+00	0.00	0.00	0	0	0	0	0
30+20	63.86	0.61	24	0	24	0	23
30+50	62.08	3.03	70	3	94	3	91
31+00	34.29	10.30	89	16	183	19	164
31+50	17.01	21.77	48	39	230	58	173
32+00	0.00	56.68	16	94	246	152	94
		TOTAL	246	152			

EARTHWORK TABULATION - EAST PED PATH EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
70+00.00	7.37	0.00	0	0	0	0	0
70+50.00	7.04	8.05	13	10	13	10	4
71+00.00	181.59	0.00	175	10	188	19	169
71+50.00	215.19	0.00	367	0	555	19	536
72+00.00	156.16	0.00	344	0	899	19	880
72+50.00	194.14	0.00	324	0	1224	19	1204
73+00.00	33.54	23.00	211	28	1434	47	1387
73+50.00	144.77	6.33	165	35	1600	82	1517
74+00.00	263.10	0.00	378	8	1977	90	1887
74+50.00	12.54	0.11	255	0	2232	90	2142
75+00.00	1.35	191.27	13	230	2245	320	1925
75+50.00	0.00	182.09	1	449	2246	770	1477
		TOTAL	2246	770			

EARTHWORK TABULATION - SOUTH PED PATH EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
208+00.00	20.65	0.00	0	0	0	0	0
208+50.00	16.23	7.03	34	8	34	8	26
209+00.00	39.83	0.00	52	8	86	17	69
209+50.00	58.53	0.00	91	0	177	17	160
210+00.00	73.04	10.85	122	13	299	30	269
210+50.00	10.09	0.00	77	13	376	43	333
211+00.00	130.26	13.27	130	16	506	59	447
211+50.00	136.44	92.26	247	127	753	186	567
212+00.00	103.92	101.87	223	234	975	420	556
212+50.00	110.38	119.98	198	267	1174	687	487
213+00.00	153.95	0.00	245	144	1419	831	587
213+50.00	20.21	6.54	161	8	1580	839	741
214+00.00	0.00	28.93	19	43	1599	882	717
214+50.00	0.00	17.88	0	56	1599	938	660
		TOTAL	1599	938			

EARTHWORK TABULATION - WEST POND EXPANSION FACTOR = 1.3

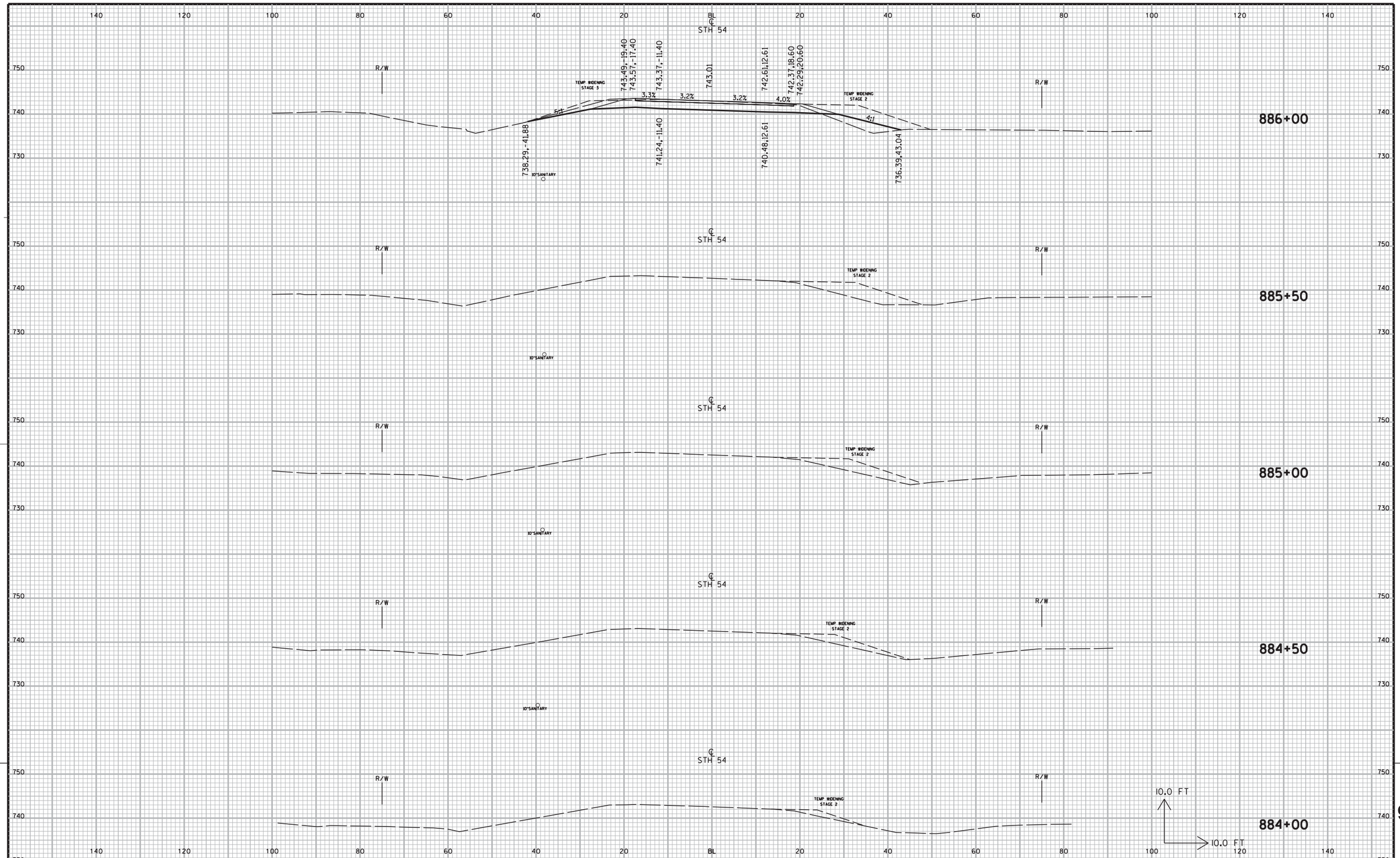
STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
19+50	0.51	19.13	0	0	0	0	0
20+00	102.56	18.78	95	46	95	46	50
20+50	204.51	21.99	284	49	380	95	285
20+60	188.40	20.68	73	10	453	105	348
21+00	23.62	16.07	157	35	610	140	469
		TOTAL	610	140			

EARTHWORK TABULATION - NORTH POND EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
1095+50	18.59	0.02	0	0	0	0	0
1096+00	62.89	0.03	75	0	75	0	75
1096+50	36.83	1.08	92	1	168	1	166
1097+00	63.49	0.00	93	1	261	3	258
1097+50	20.34	3.06	78	4	338	6	332
1097+70	20.34	3.06	15	3	353	9	344
		TOTAL	353	9			

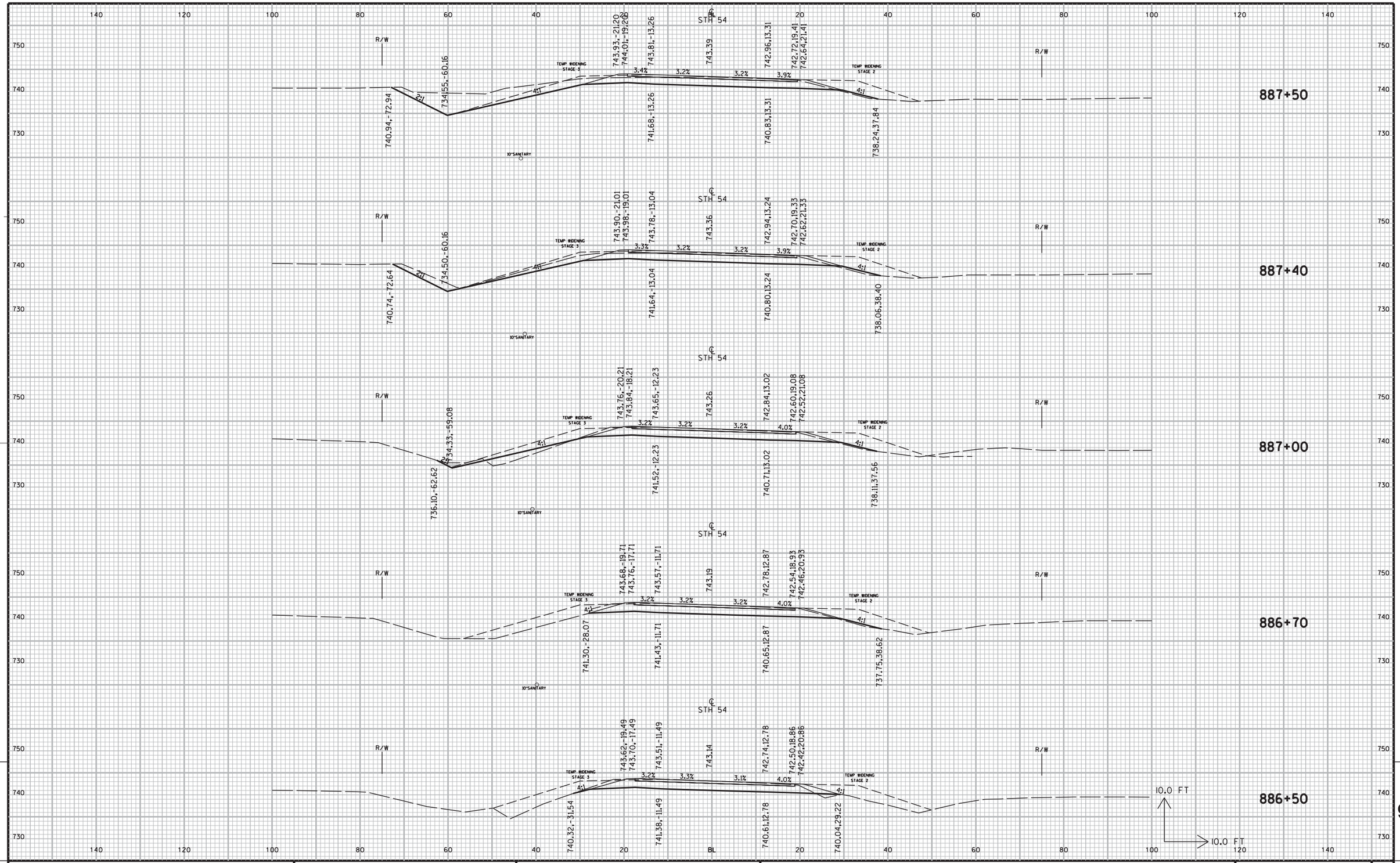
EARTHWORK TABULATION - EAST POND EXPANSION FACTOR = 1.3

STATION	END AREA CUT (SF)	END AREA FILL (SF)	INCREMENTAL VOLUME CUT (CY)	INCREMENTAL VOLUME EXP FILL (CY)	CUMMULATIVE VOLUME CUT (CY)	CUMMULATIVE VOLUME EXP FILL (CY)	MASS ORDINATE (CY)
1104+50	109.45	6.81	0	0	0	0	0
1105+00	524.12	0.00	587	8	587	8	578
1105+50	446.83	0.00	899	0	1486	8	1477
1106+00	413.37	4.75	796	6	2282	14	2268
1106+50	334.51	0.00	692	6	2975	20	2955
1107+00	268.38	0.00	558	0	3533	20	3513
1107+50	184.94	0.00	420	0	3953	20	3933
		TOTAL	3953	20			



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET 378	E

FILE NAME : 090202_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



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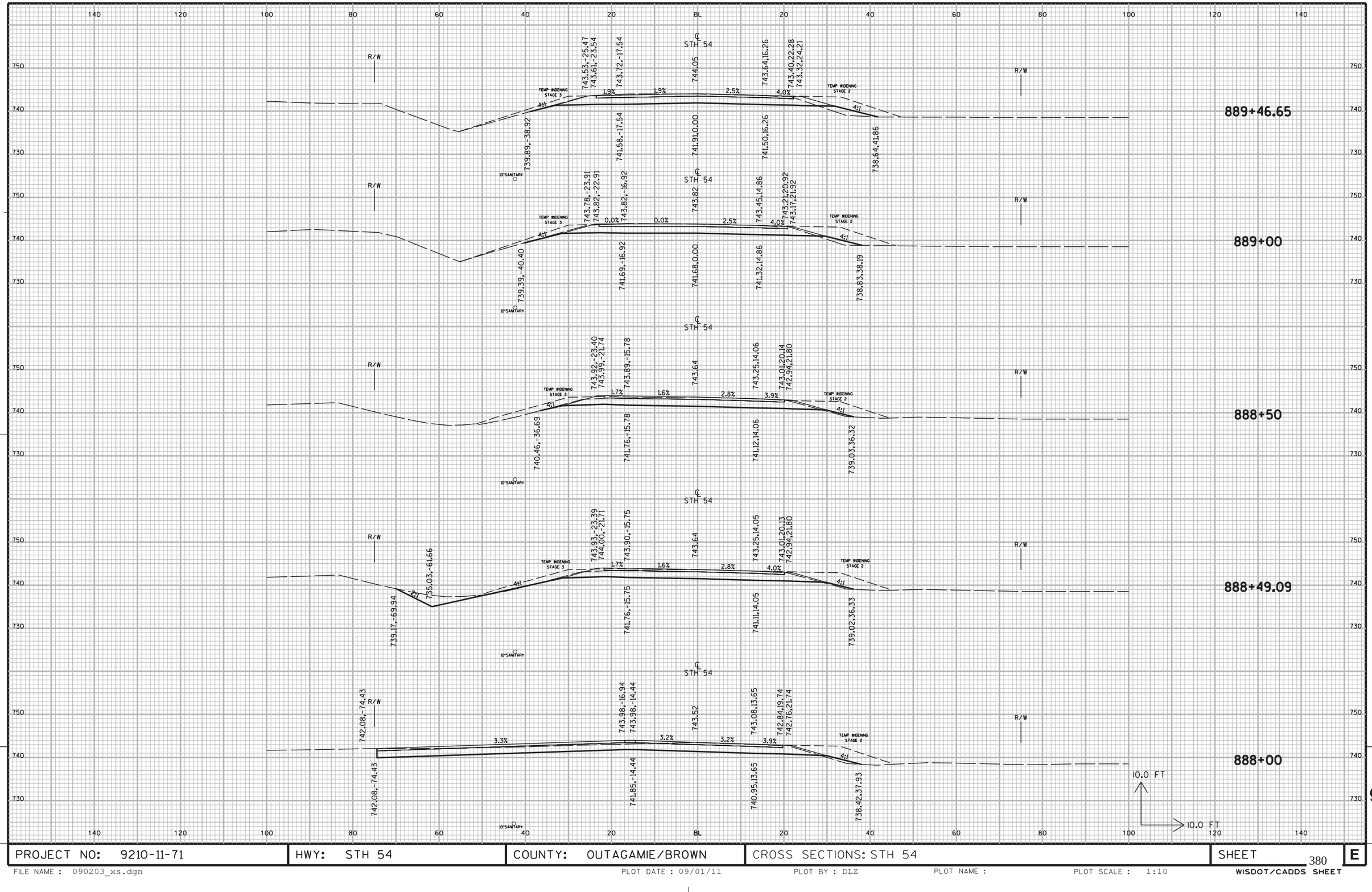
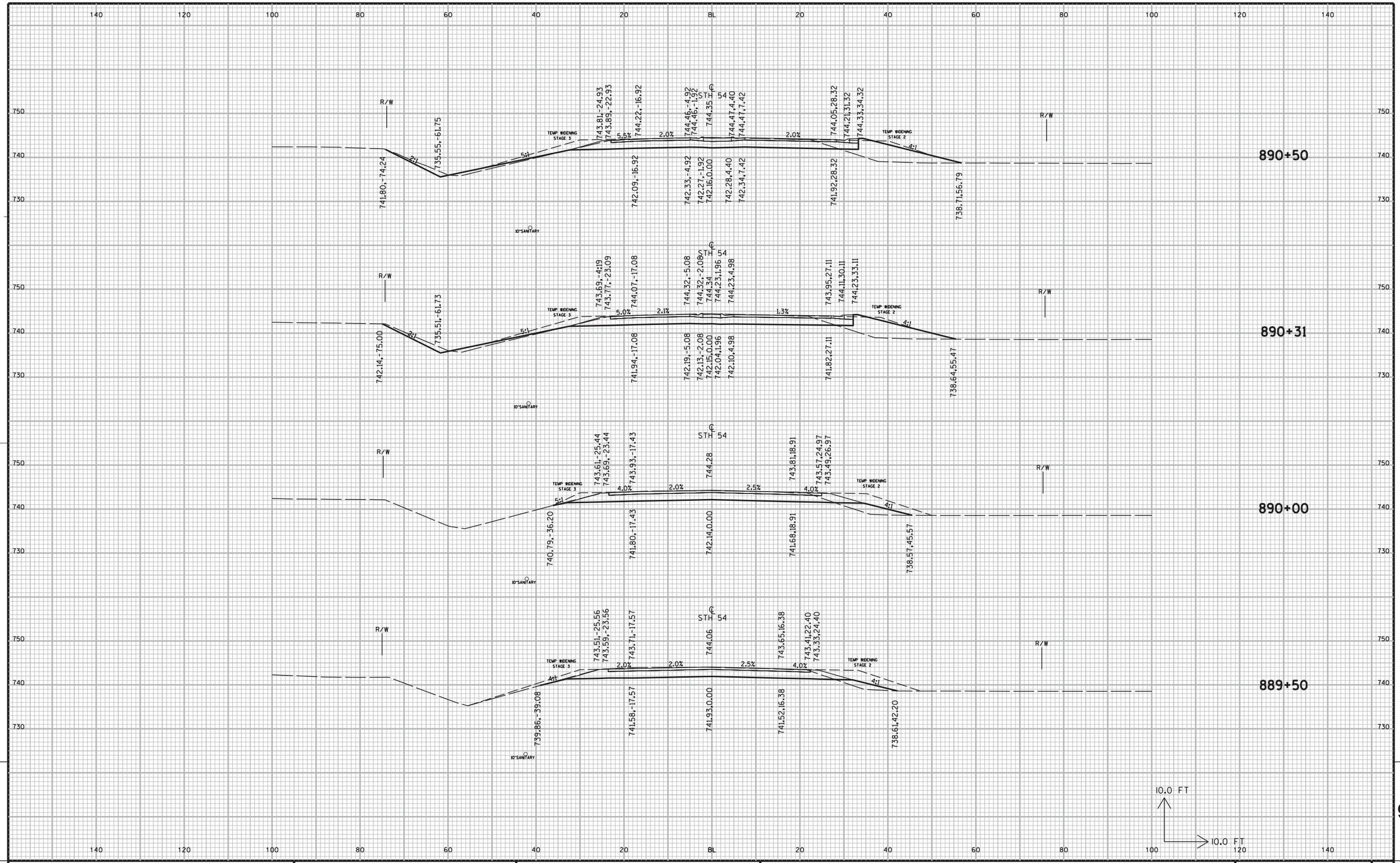
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET 379	E

FILE NAME : 090202_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



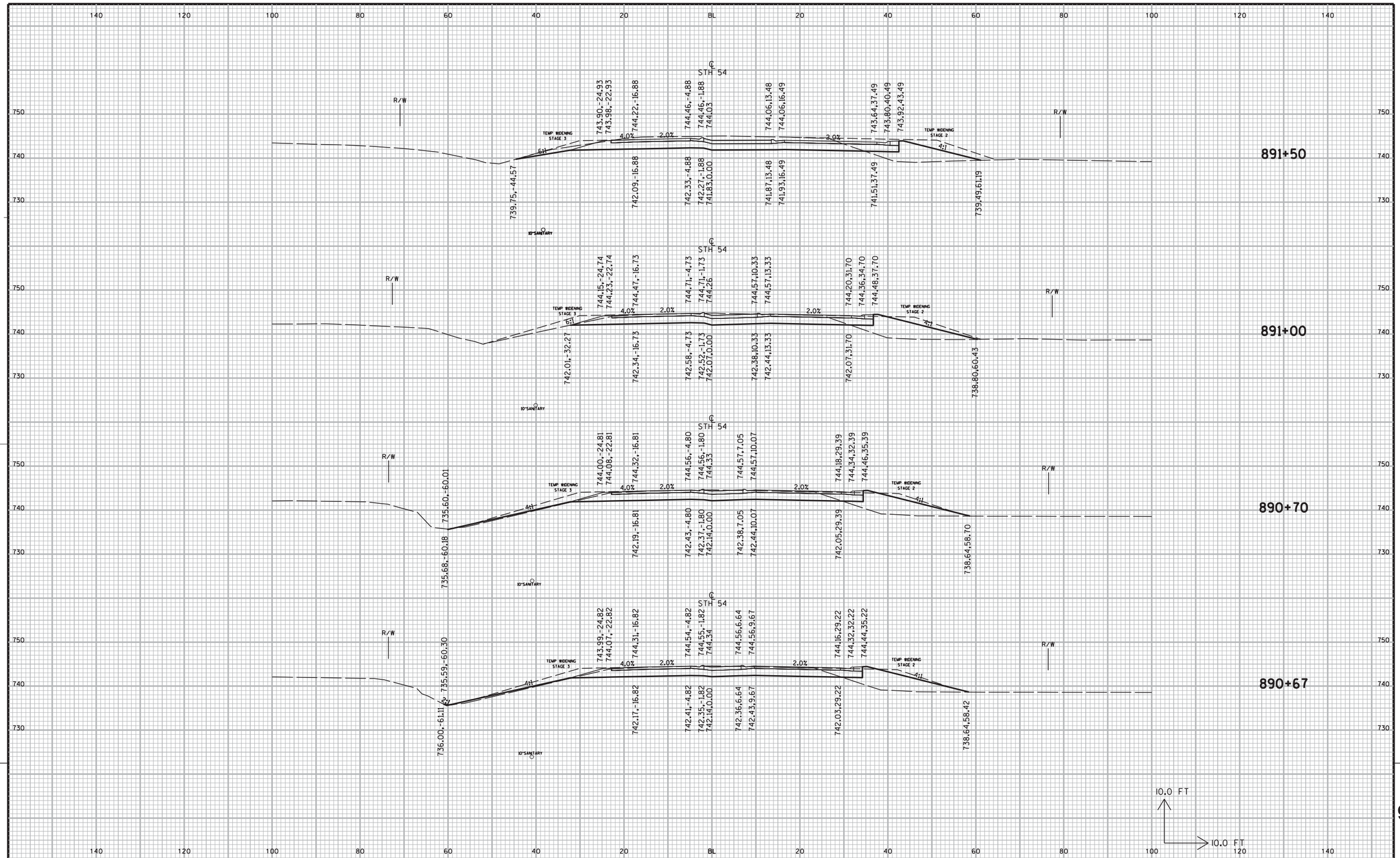
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET E

FILE NAME : 090203_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



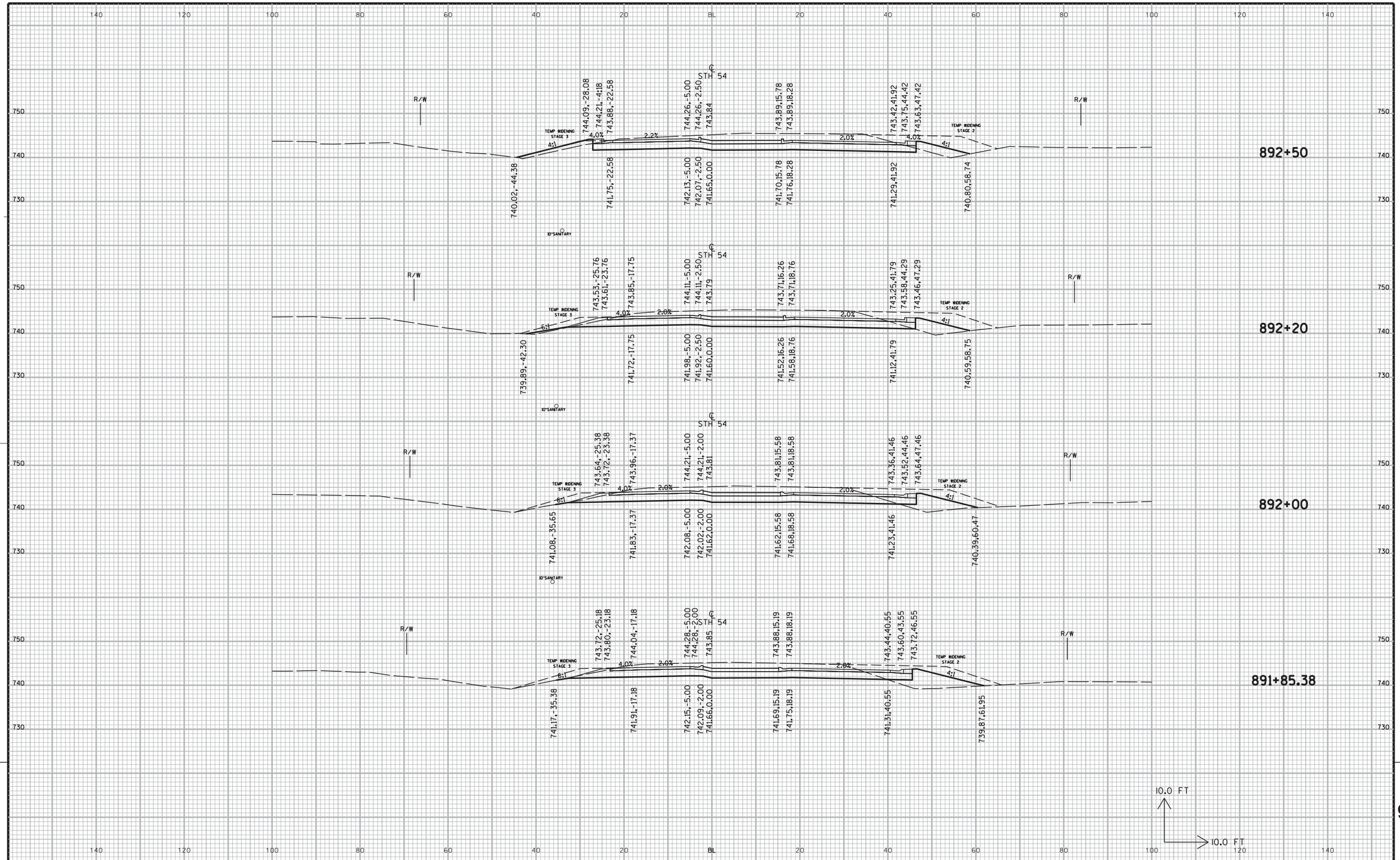
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET 381	E

FILE NAME : 090204_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



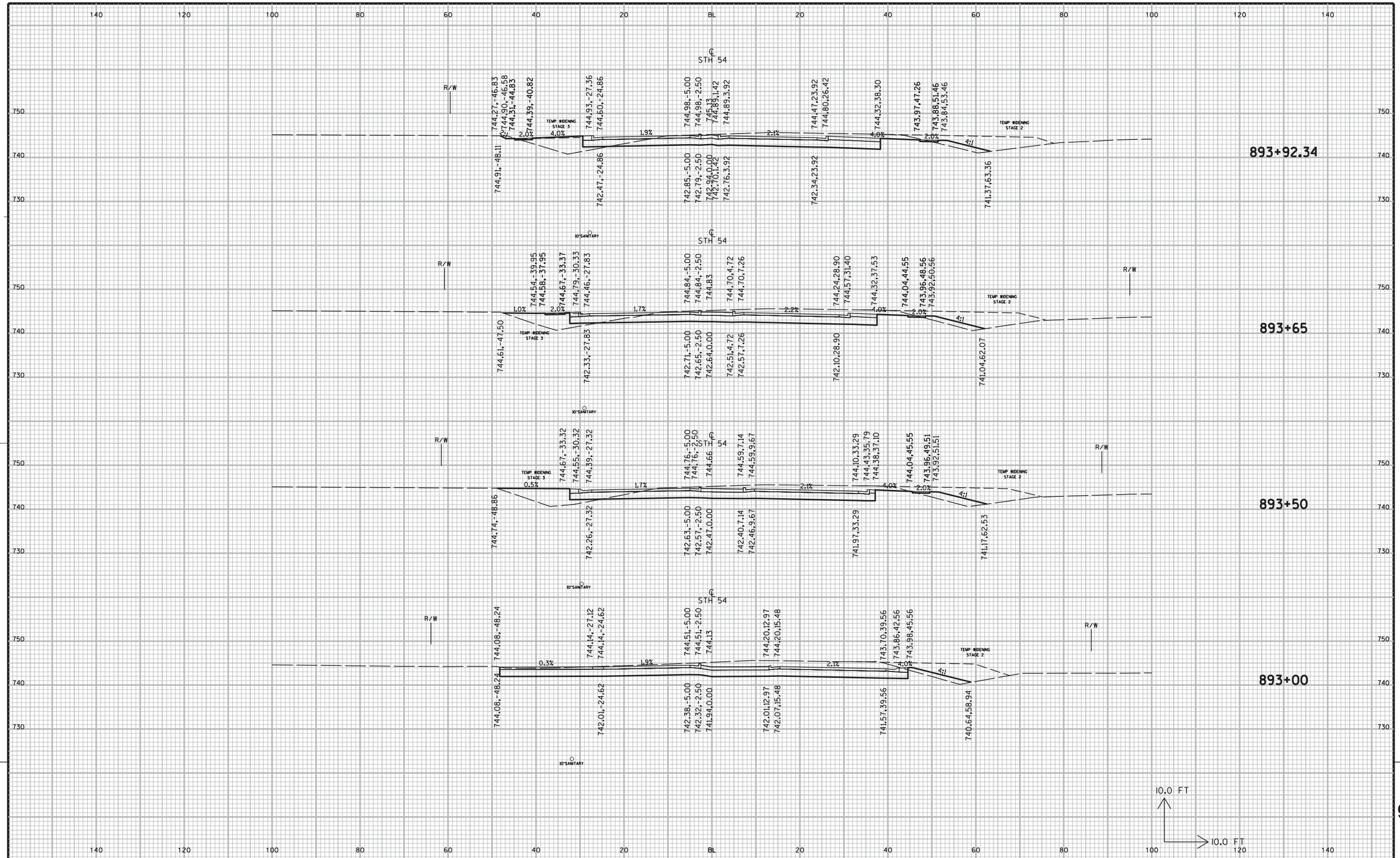
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET	E

FILE NAME : 090205_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET 383	E

FILE NAME : 090206_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



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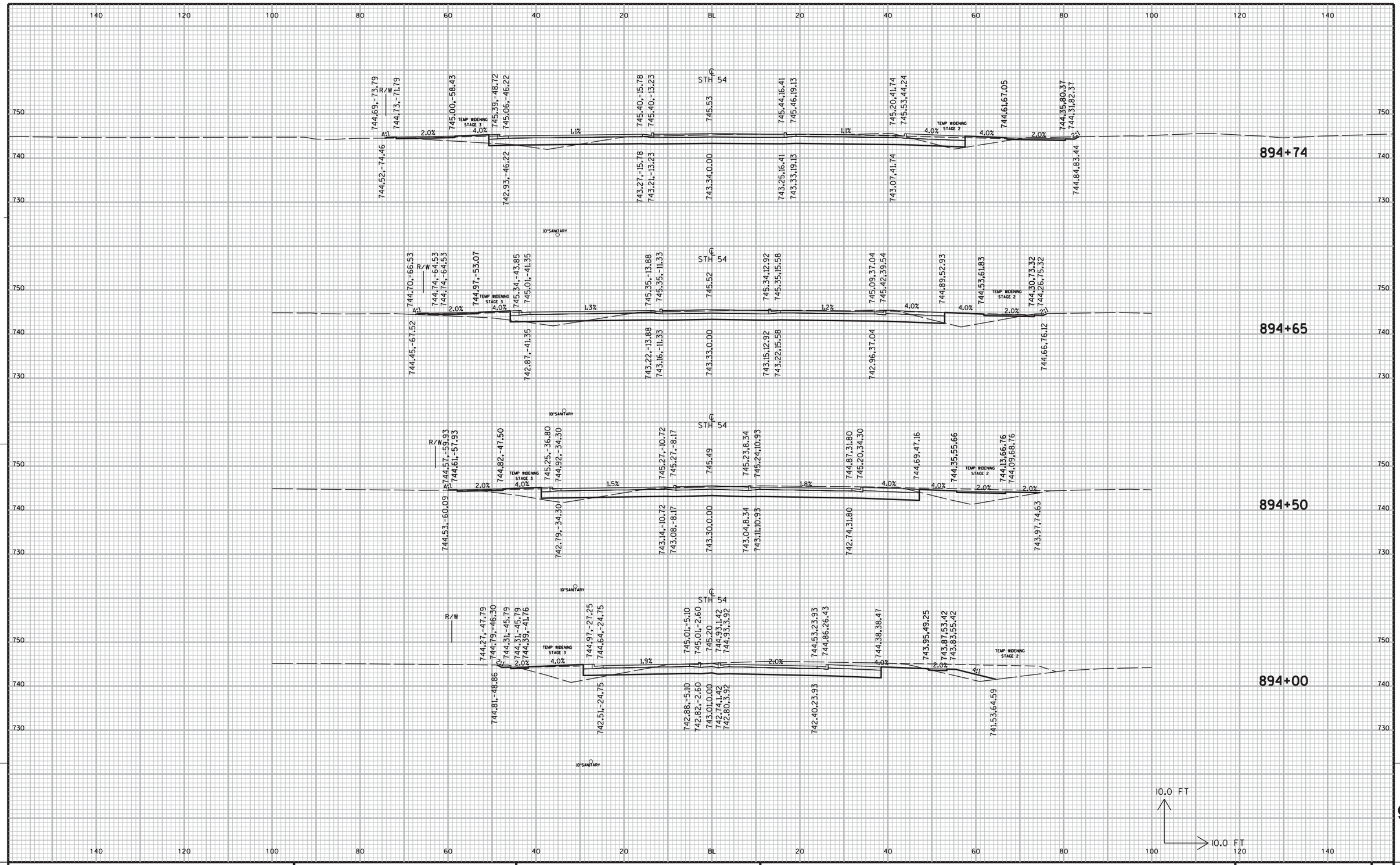
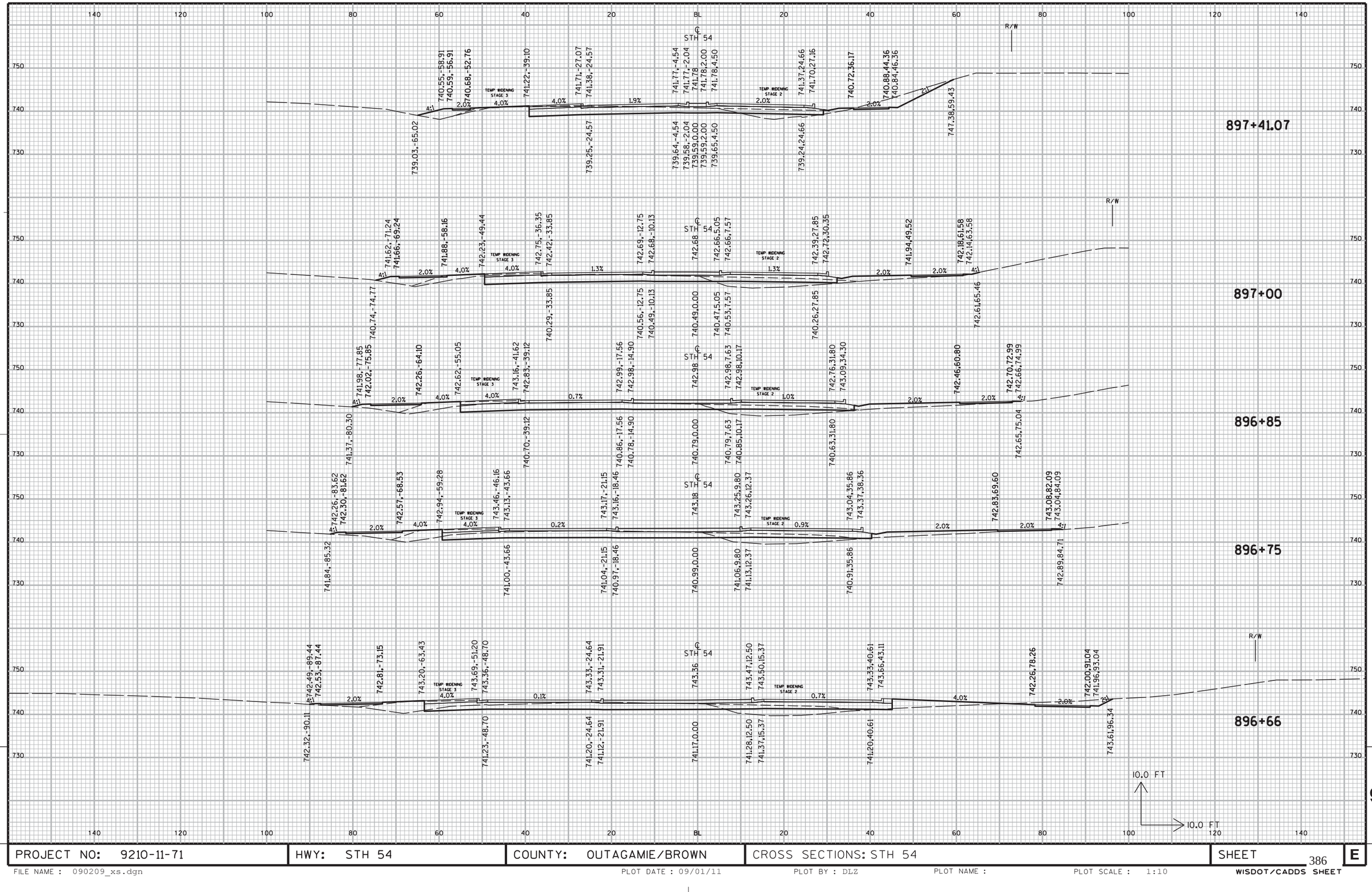
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET 384	E

FILE NAME : 090207_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



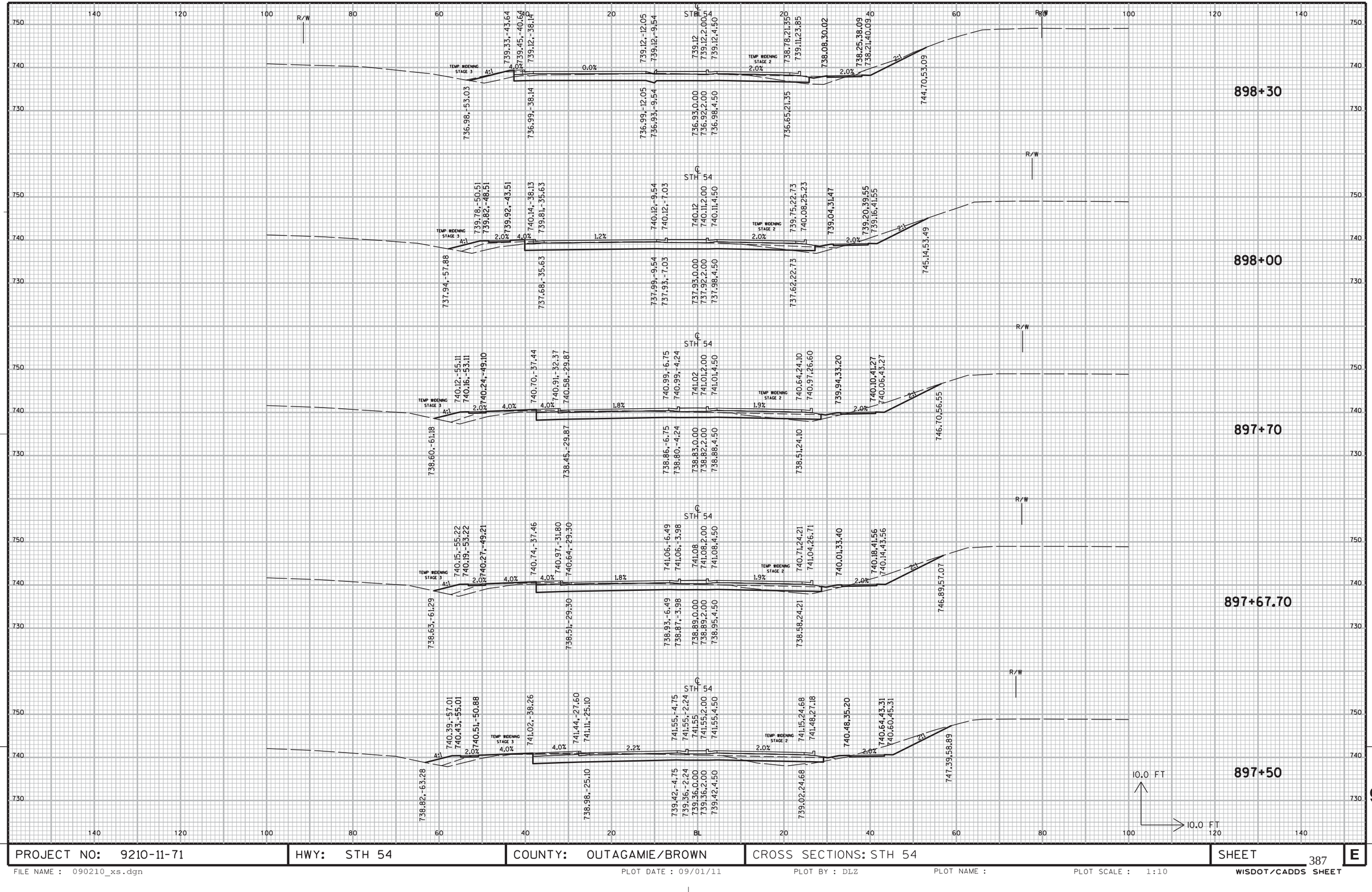
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET	E

FILE NAME : 090208_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET 386	E

FILE NAME : 090209_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



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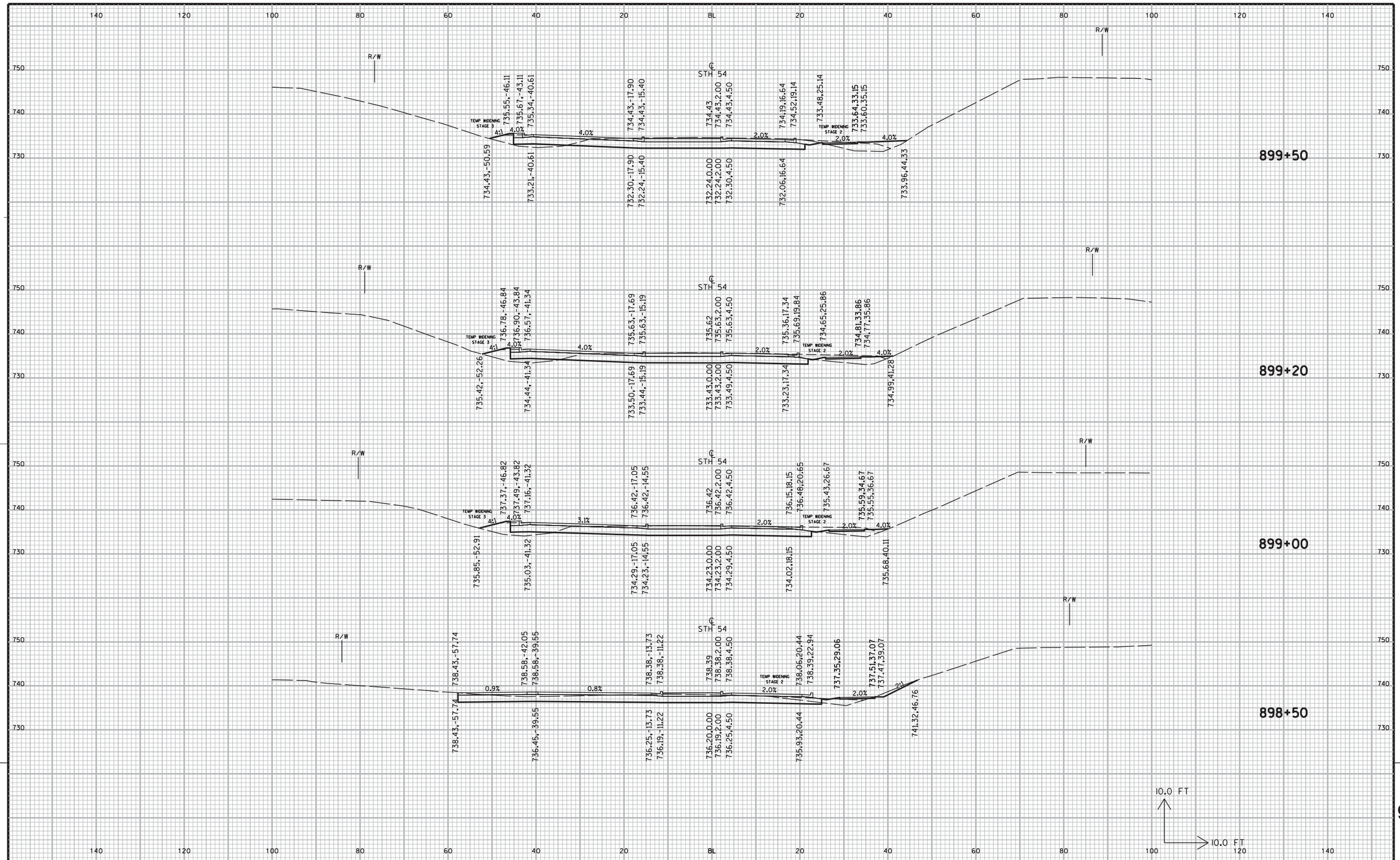
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET 387	E

FILE NAME : 090210_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



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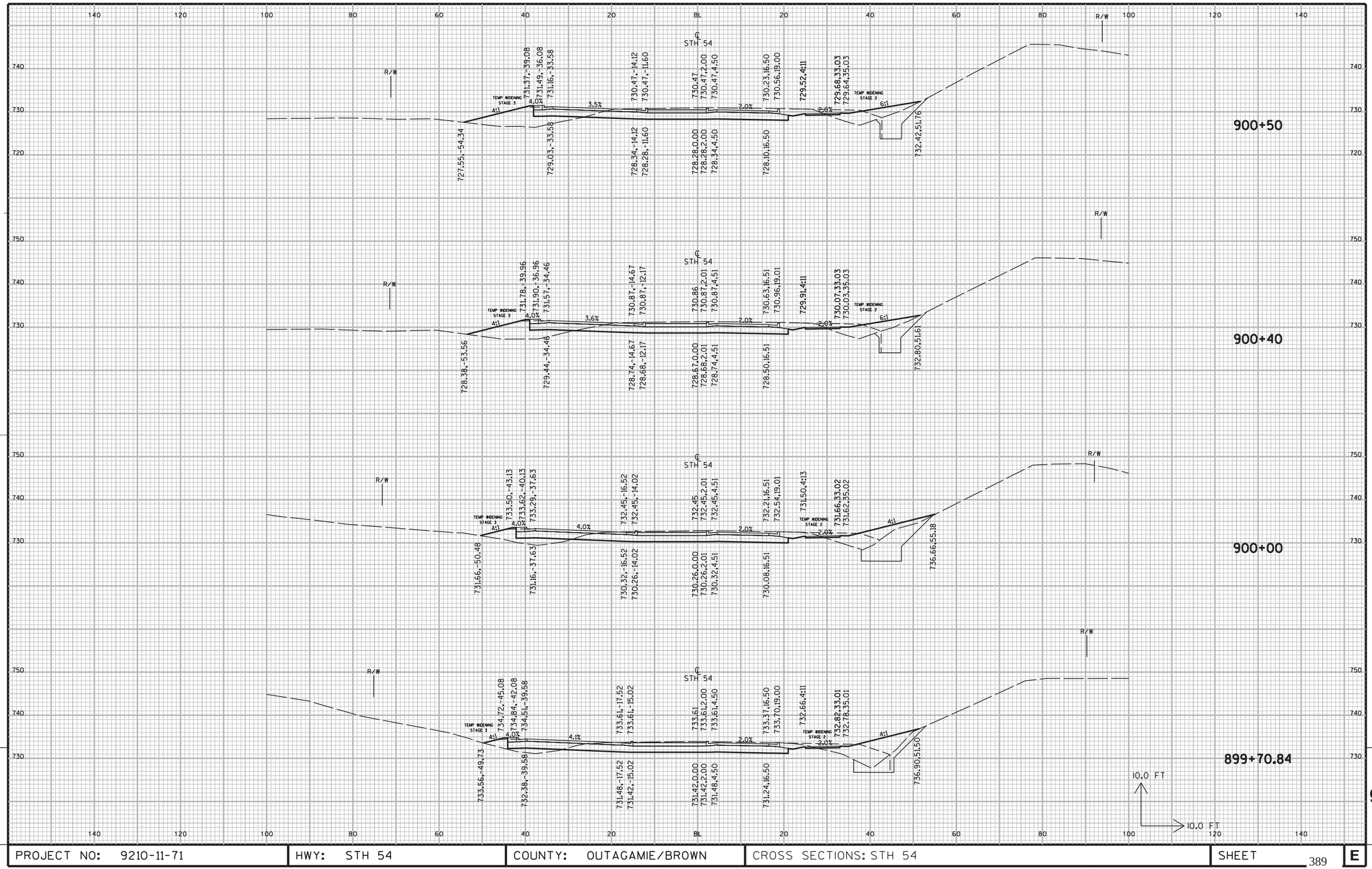
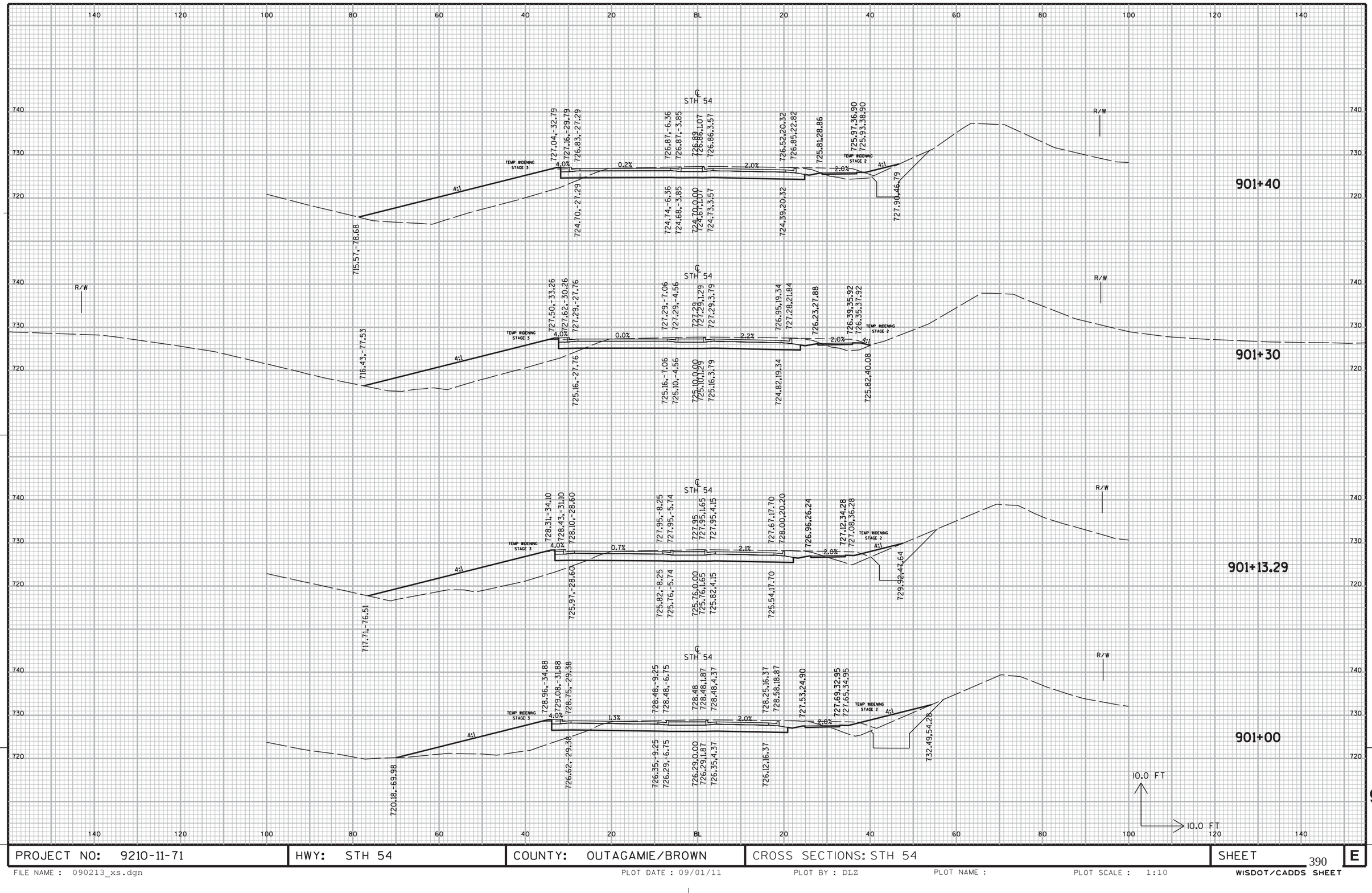
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET E

FILE NAME : 090211_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET	E

FILE NAME : 090212_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



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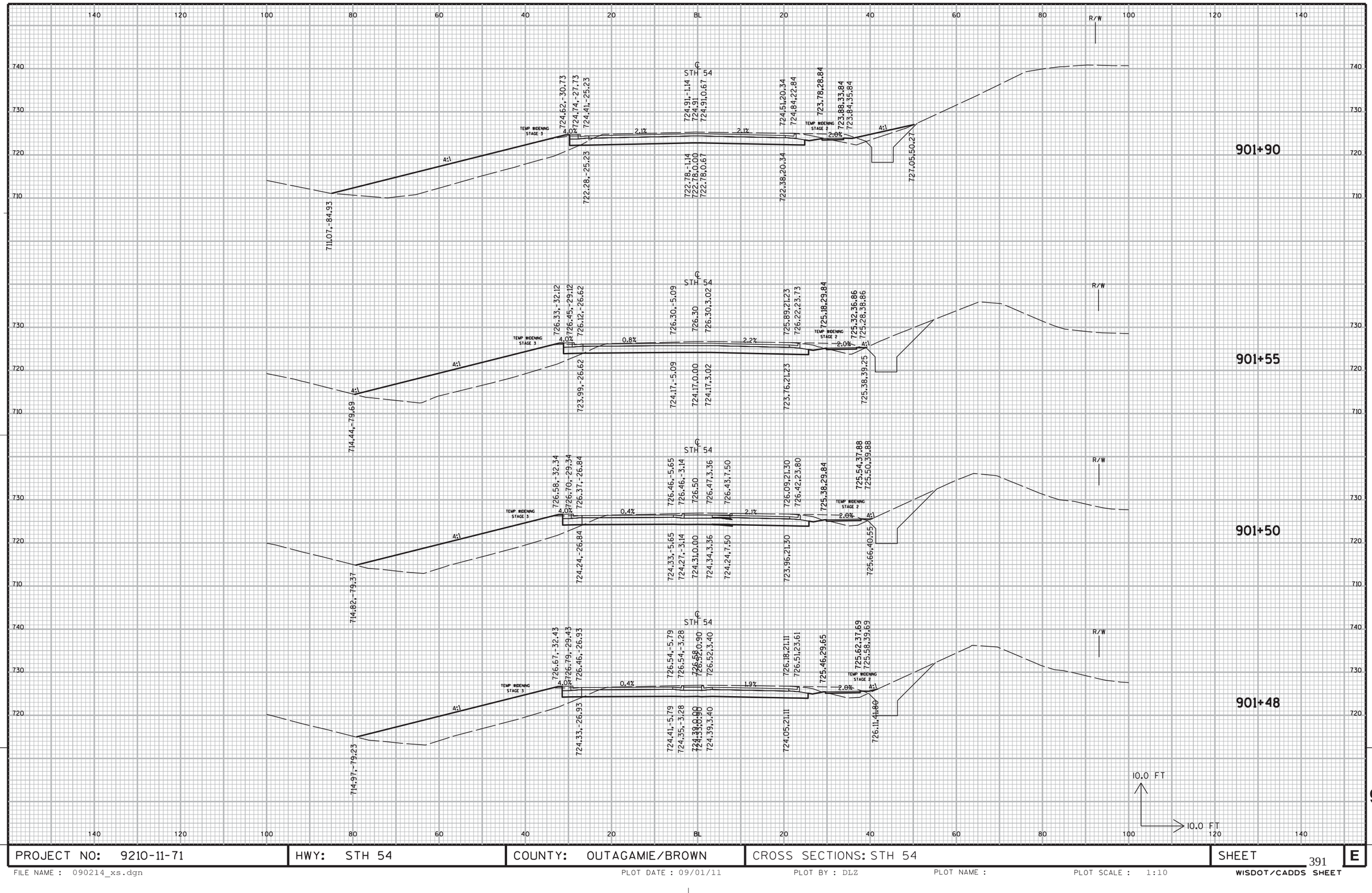
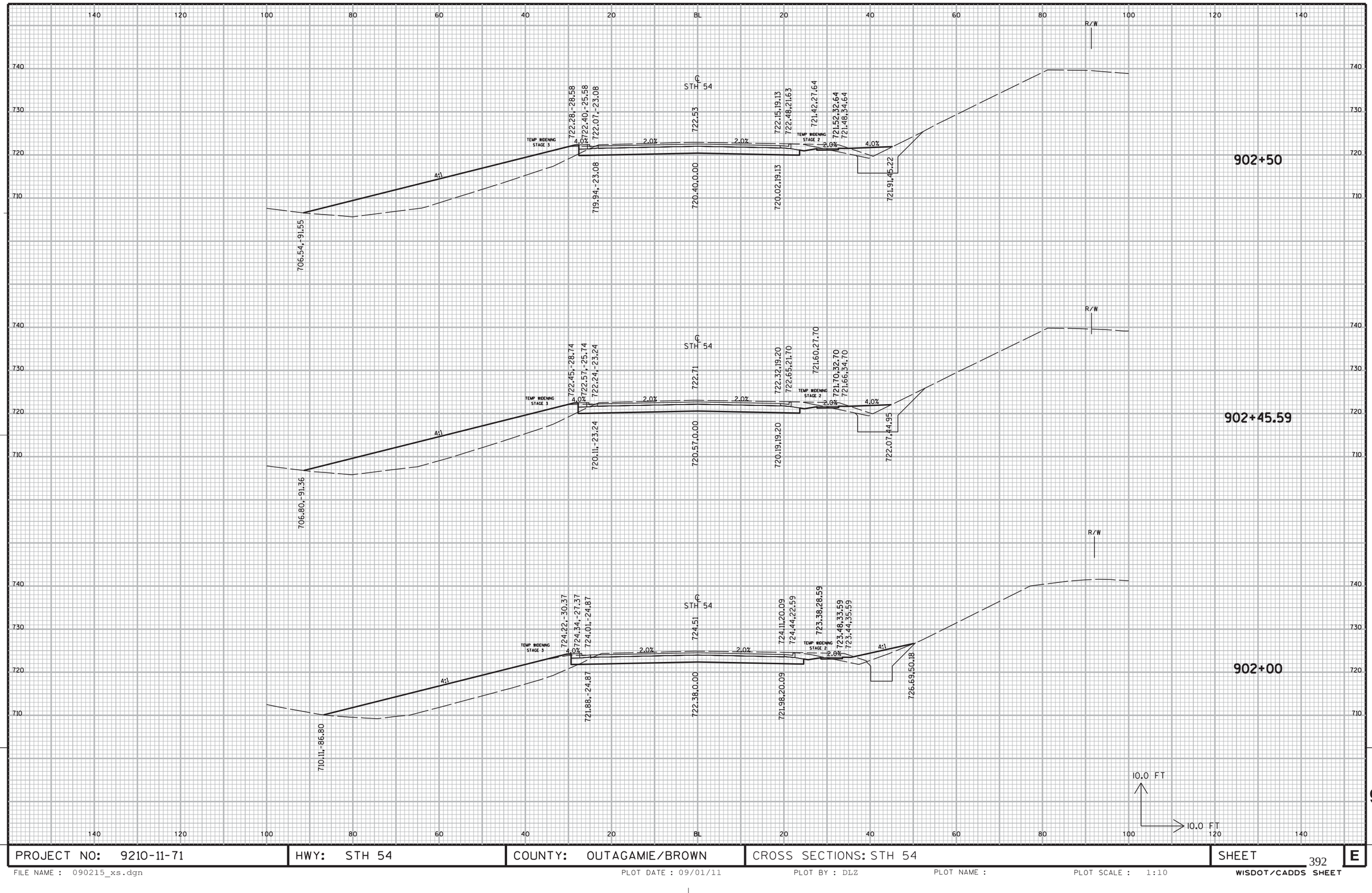
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET	E

FILE NAME : 090213_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



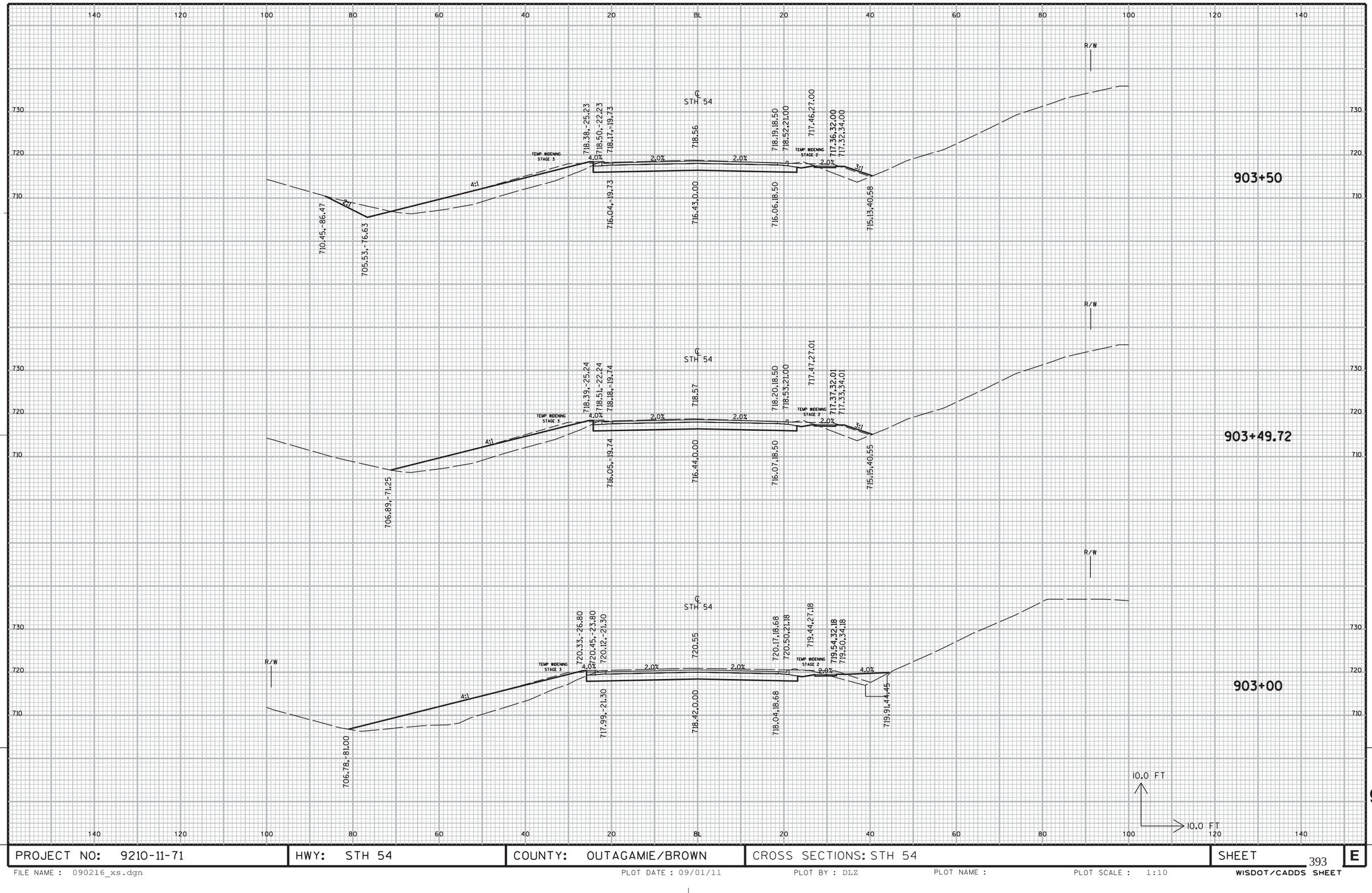
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET E

FILE NAME : 090214_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



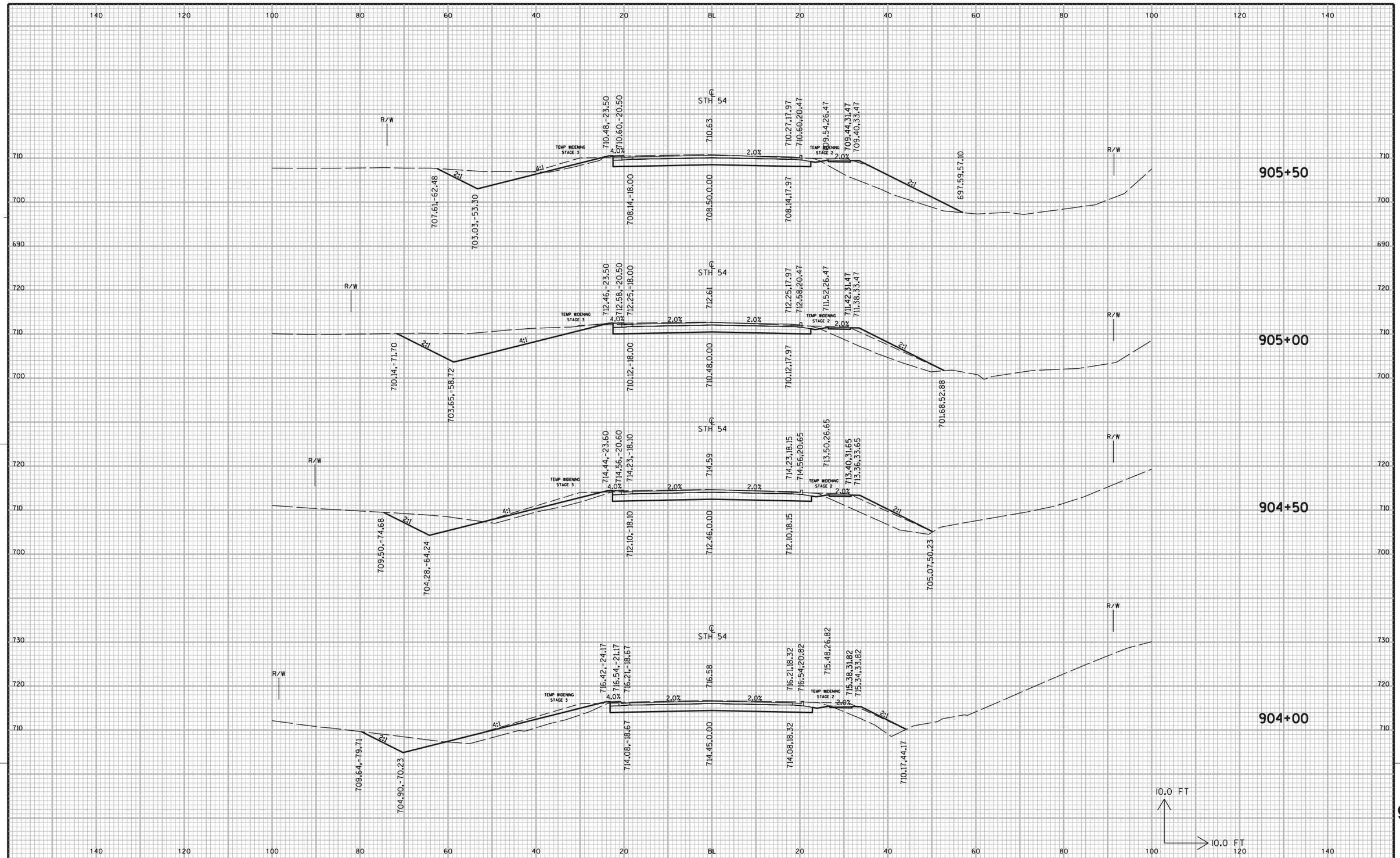
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET E

FILE NAME : 090215_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



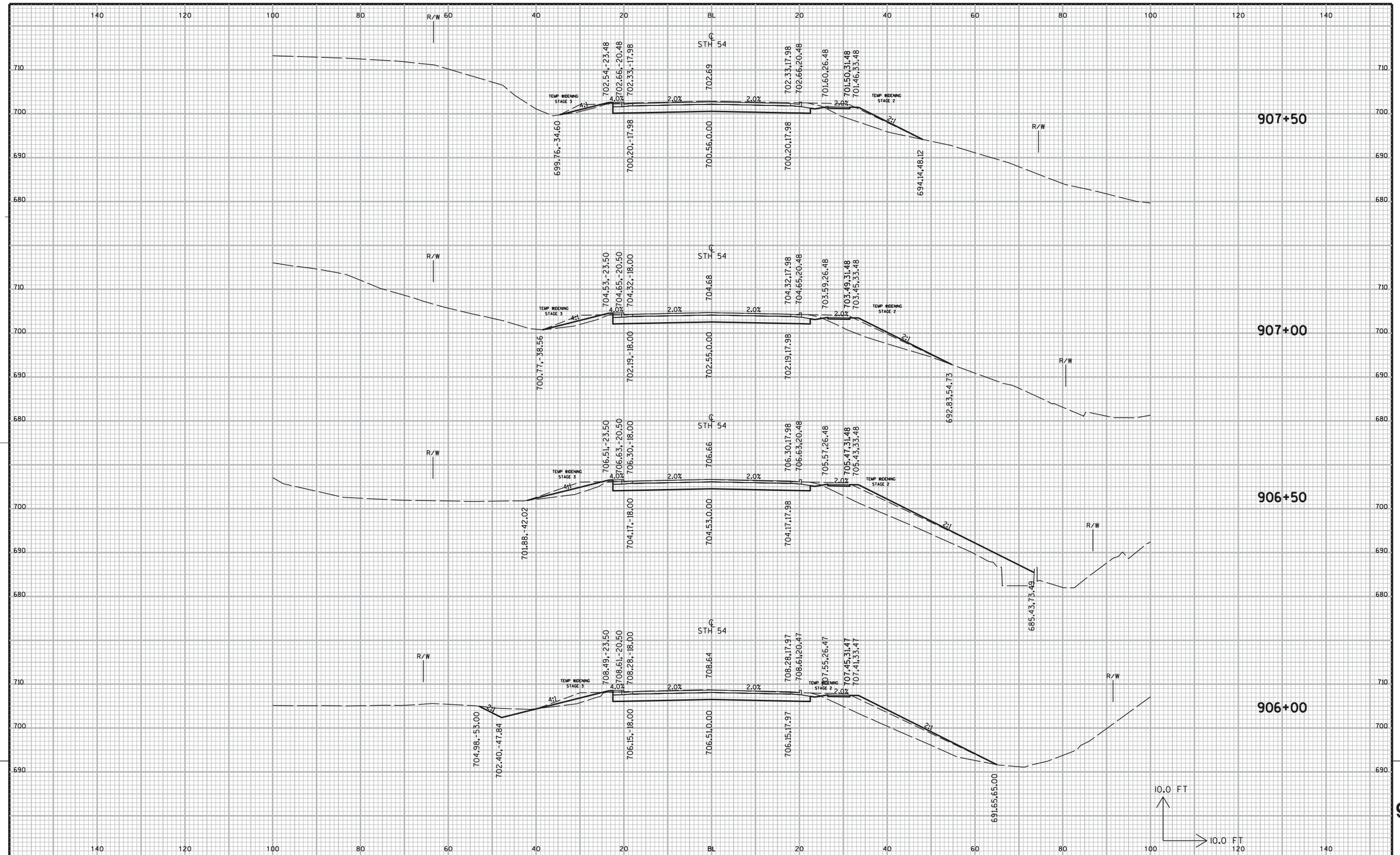
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET E

FILE NAME : 090216_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



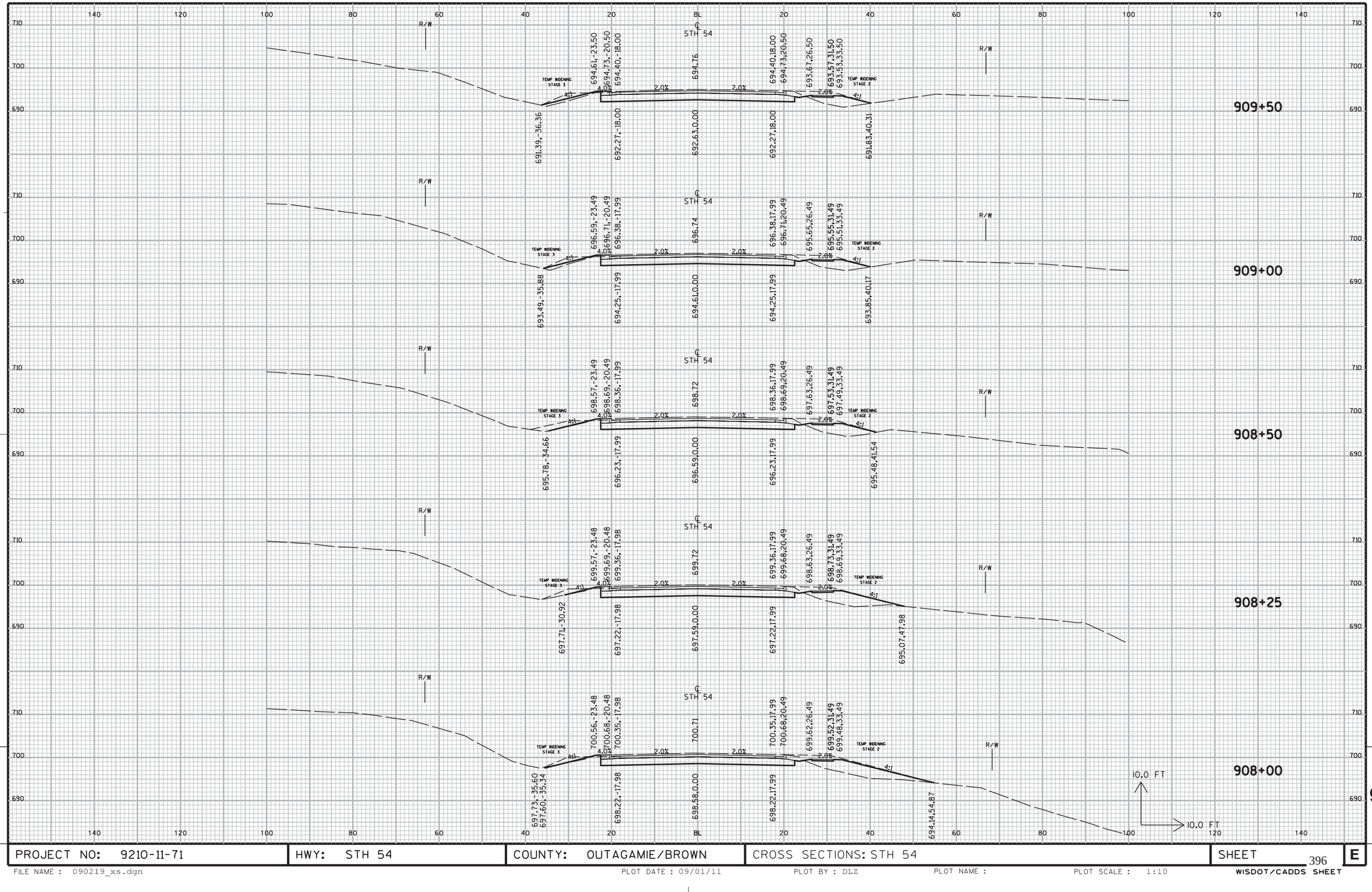
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET 394	E

FILE NAME : 090217_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET 395	E

FILE NAME : 090218_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



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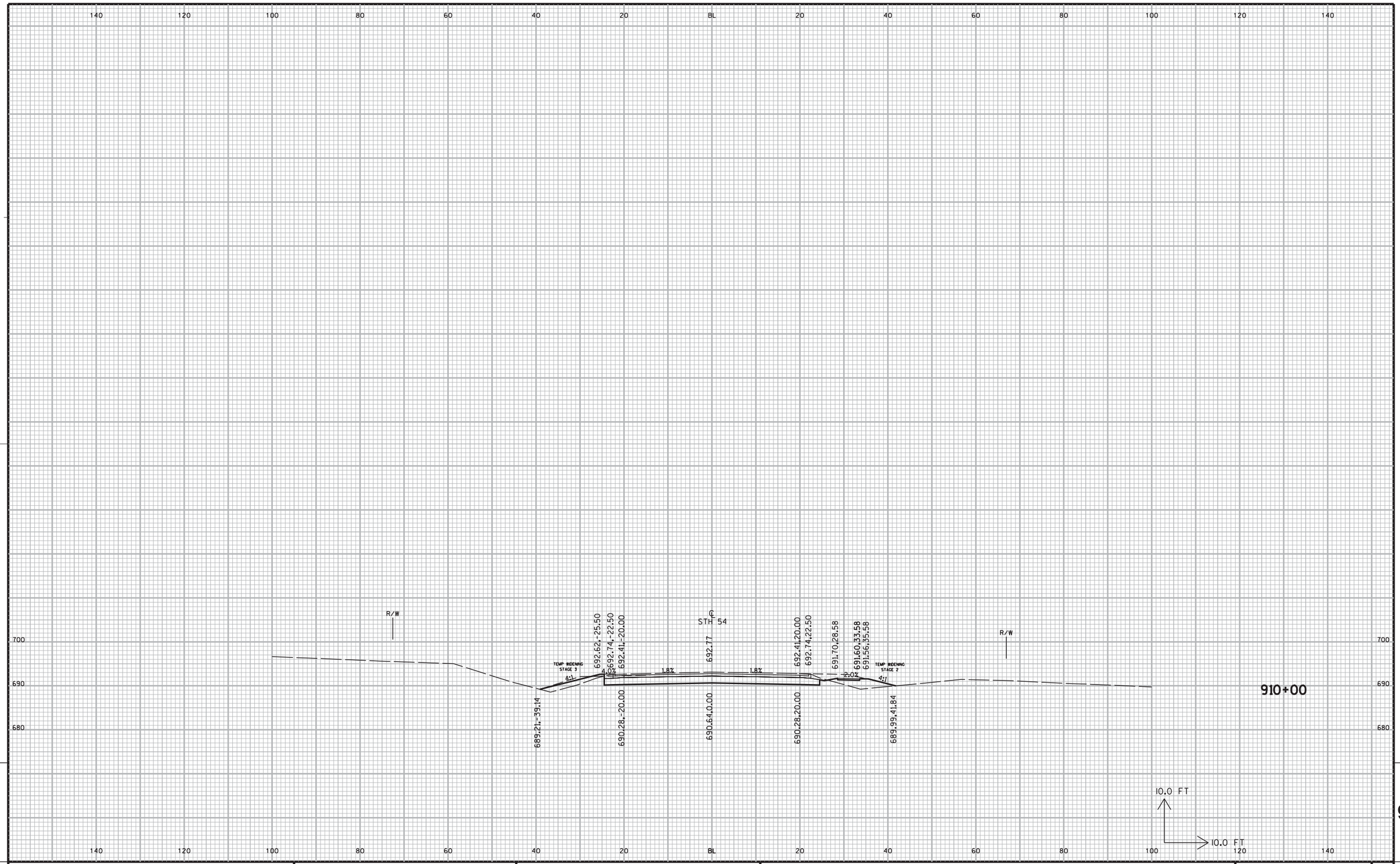
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET 396	E

FILE NAME : 090219_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



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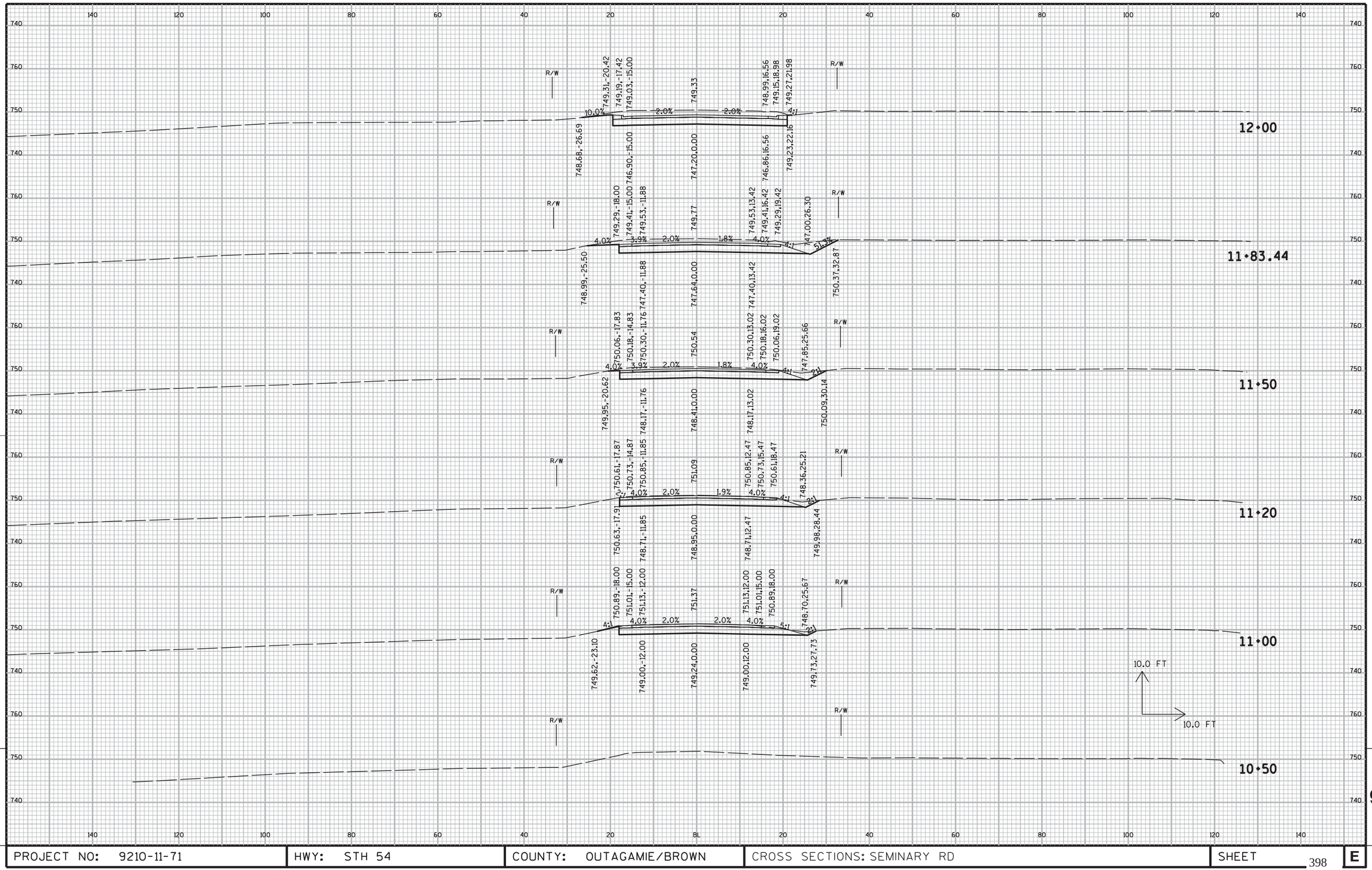
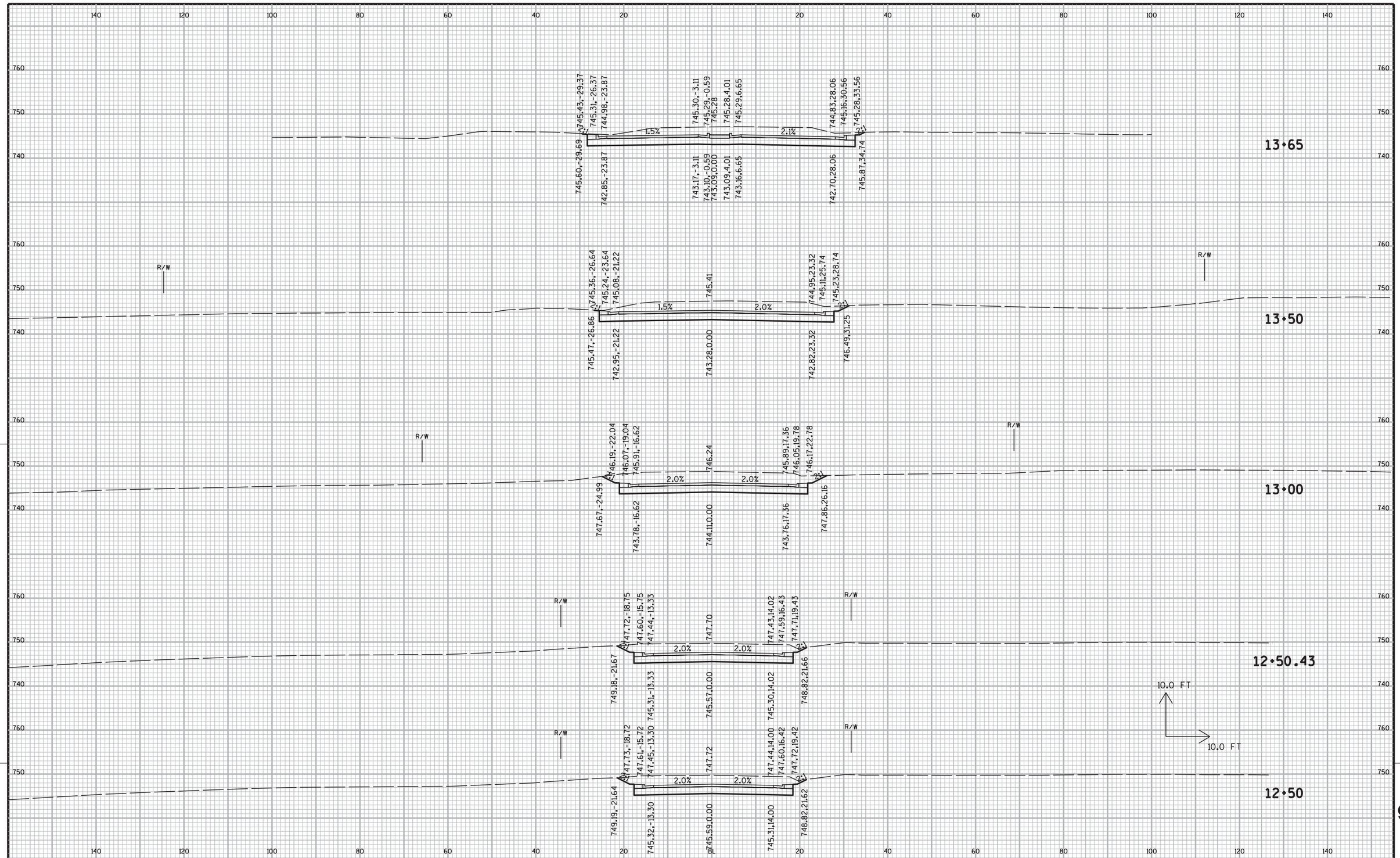
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: STH 54	SHEET	E

FILE NAME : 090220_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: SEMINARY RD	SHEET E

FILE NAME : 090221_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



9

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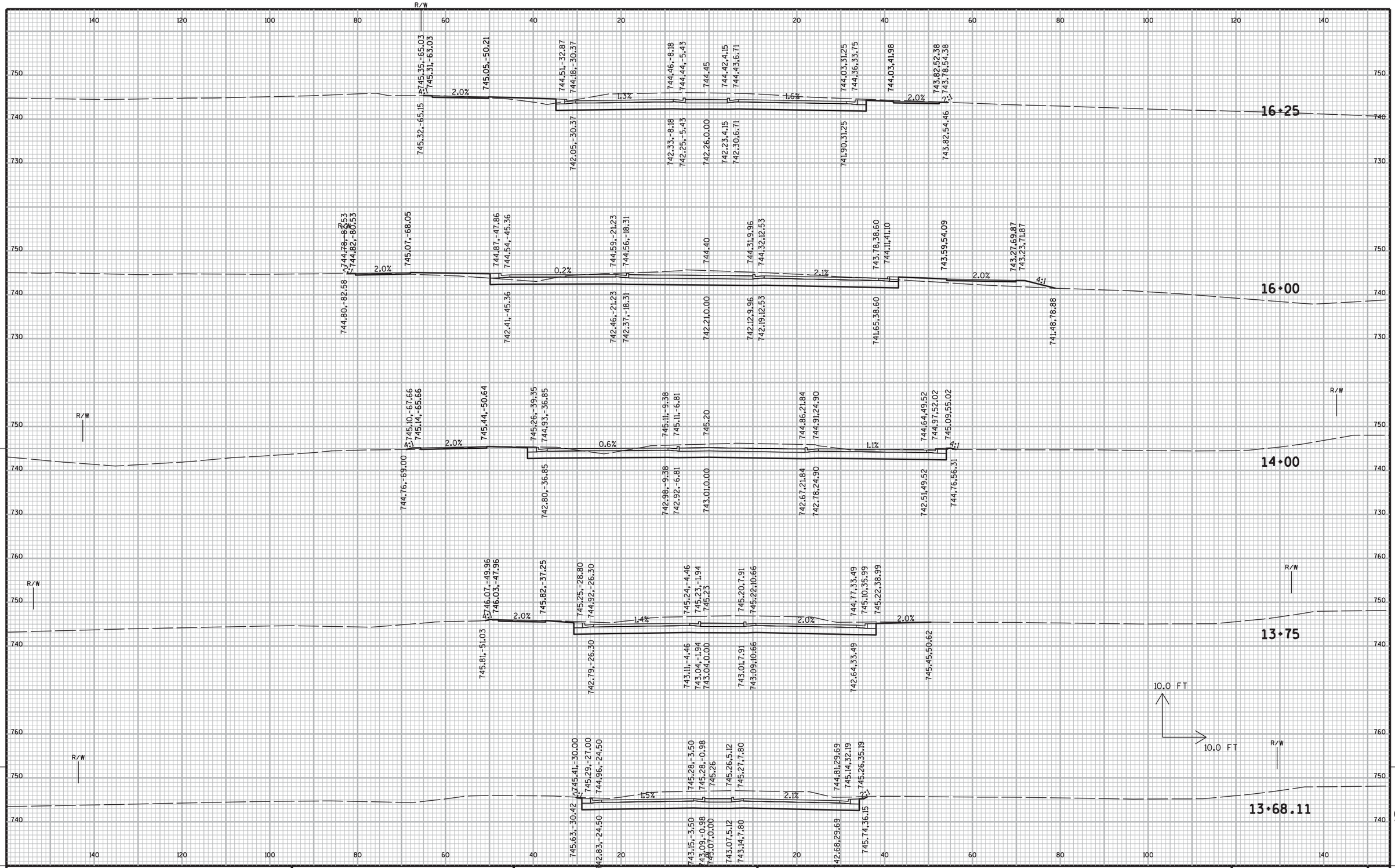
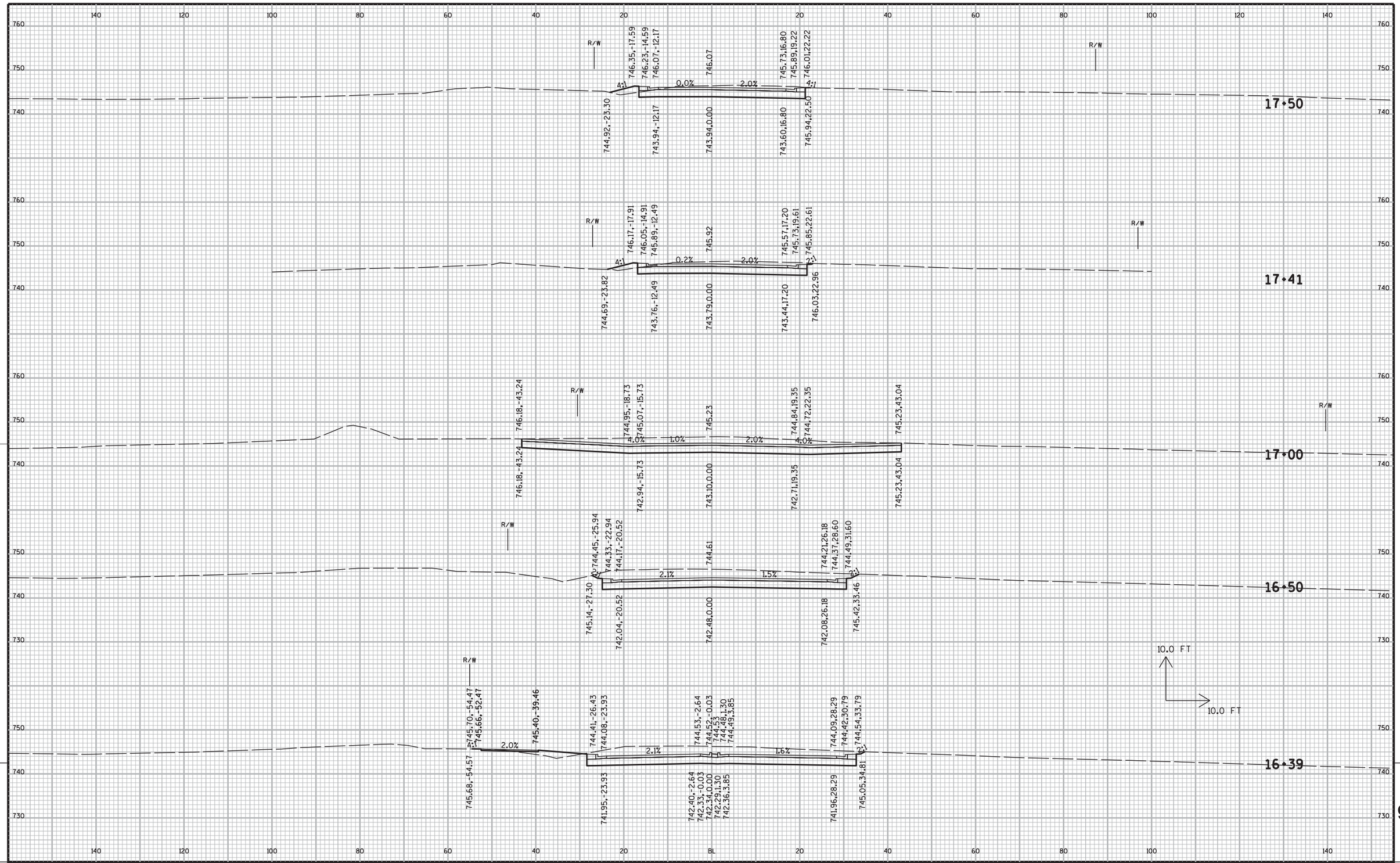
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: SEMINARY RD	SHEET	E

FILE NAME : 090222_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



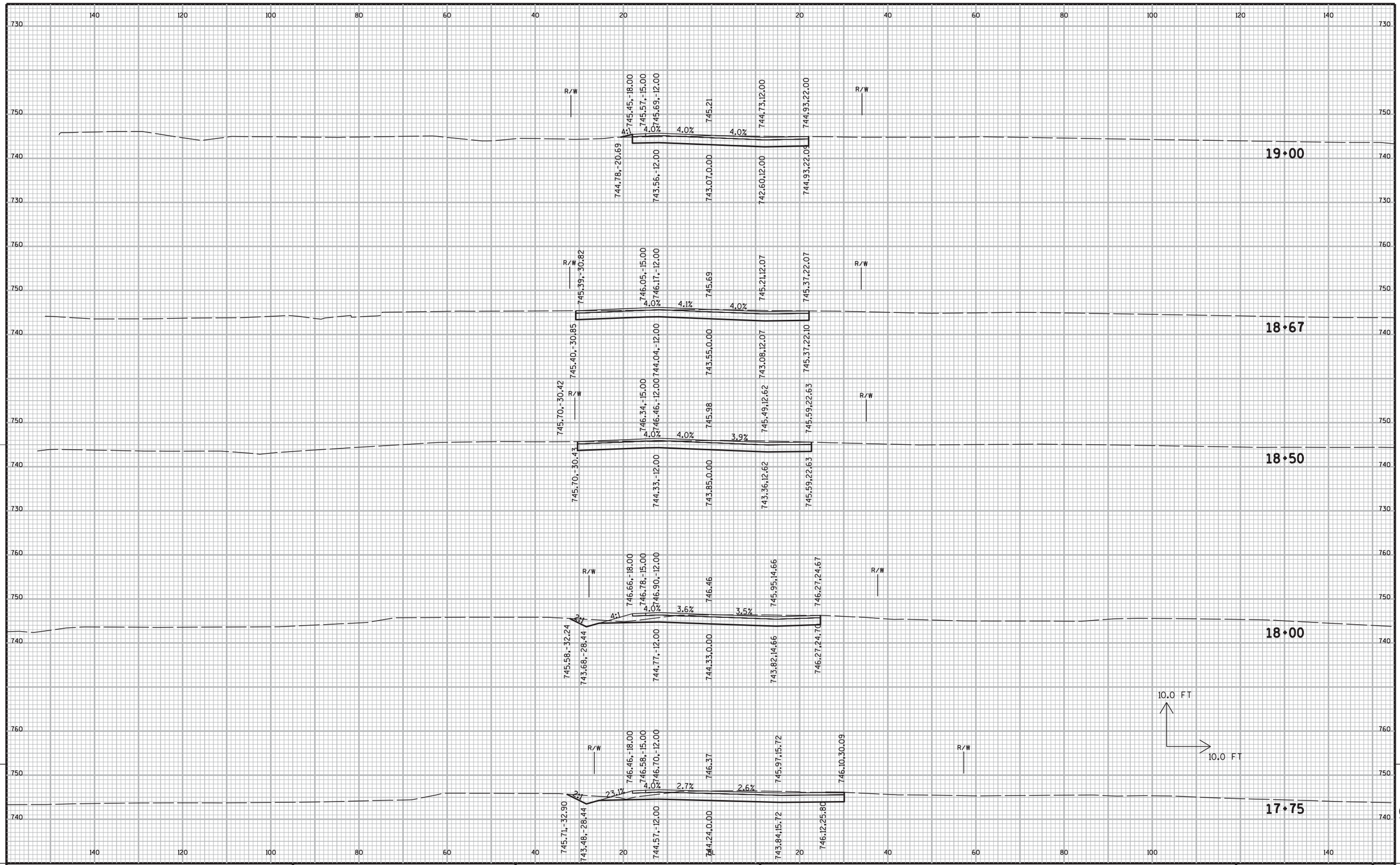
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: SEMINARY RD	SHEET 400	E

FILE NAME : 090223_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: SEMINARY RD	SHEET	E

FILE NAME : 090224_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: SEMINARY RD	SHEET 402	E

FILE NAME : 090225_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET

140 120 100 80 60 40 20 20 40 60 80 100 120 140

760 750 740 730

R/W R/W

20+45.78

R/W R/W

744.68,-18.00 744.80,-15.00 744.92,-12.00 744.44 743.96,12.00 744.22,22.00

4.0% 4.0% 4.0% 4.0% 1.7%

745.02,-18.68 742.79,-12.00 742.31,0.00 741.83,12.00 744.22,22.04

20+30

R/W R/W

744.75,-18.00 744.87,-15.00 744.99,-12.00 744.51 744.03,12.00 744.28,22.00

4.0% 4.0% 4.0% 1.6%

745.24,-18.98 742.86,-12.00 742.38,0.00 741.90,12.00 744.29,22.04

20+00

10.0 FT

10.0 FT

R/W R/W

744.96,-18.00 745.08,-15.00 745.20,-12.00 744.72 744.24,12.00 744.62,22.00

4.0% 4.0% 4.0% 3.0%

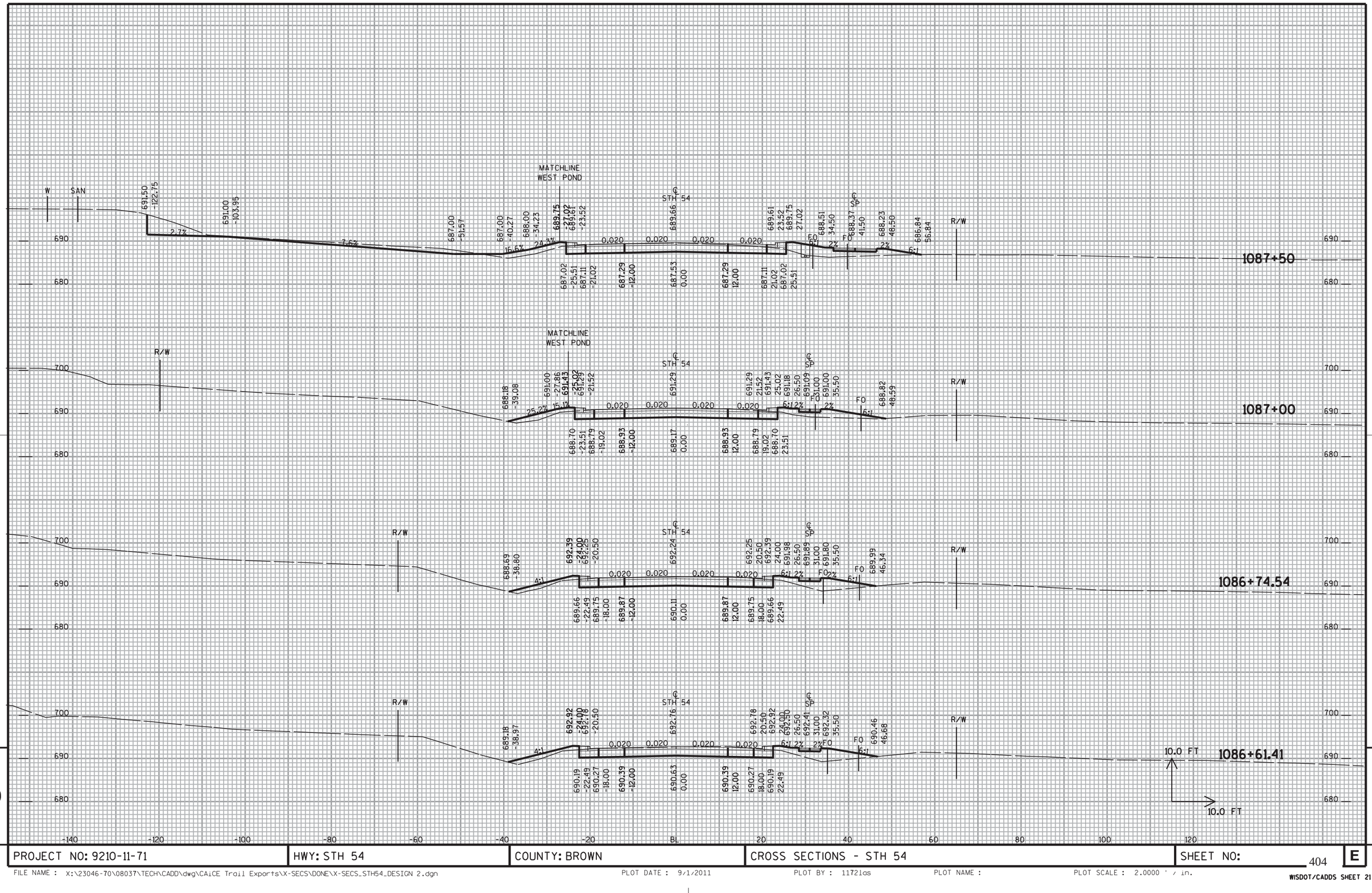
744.88,-18.34 743.07,-12.00 742.59,0.00 742.11,12.00 744.62,22.11

19+50

9 9

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: OUTAGAMIE/BROWN	CROSS SECTIONS: SEMINARY RD	SHEET 403	E

FILE NAME : 090226_xs.dgn PLOT DATE : 09/01/11 PLOT BY : DLZ PLOT NAME : PLOT SCALE : 1:10 WISDOT/CADDS SHEET



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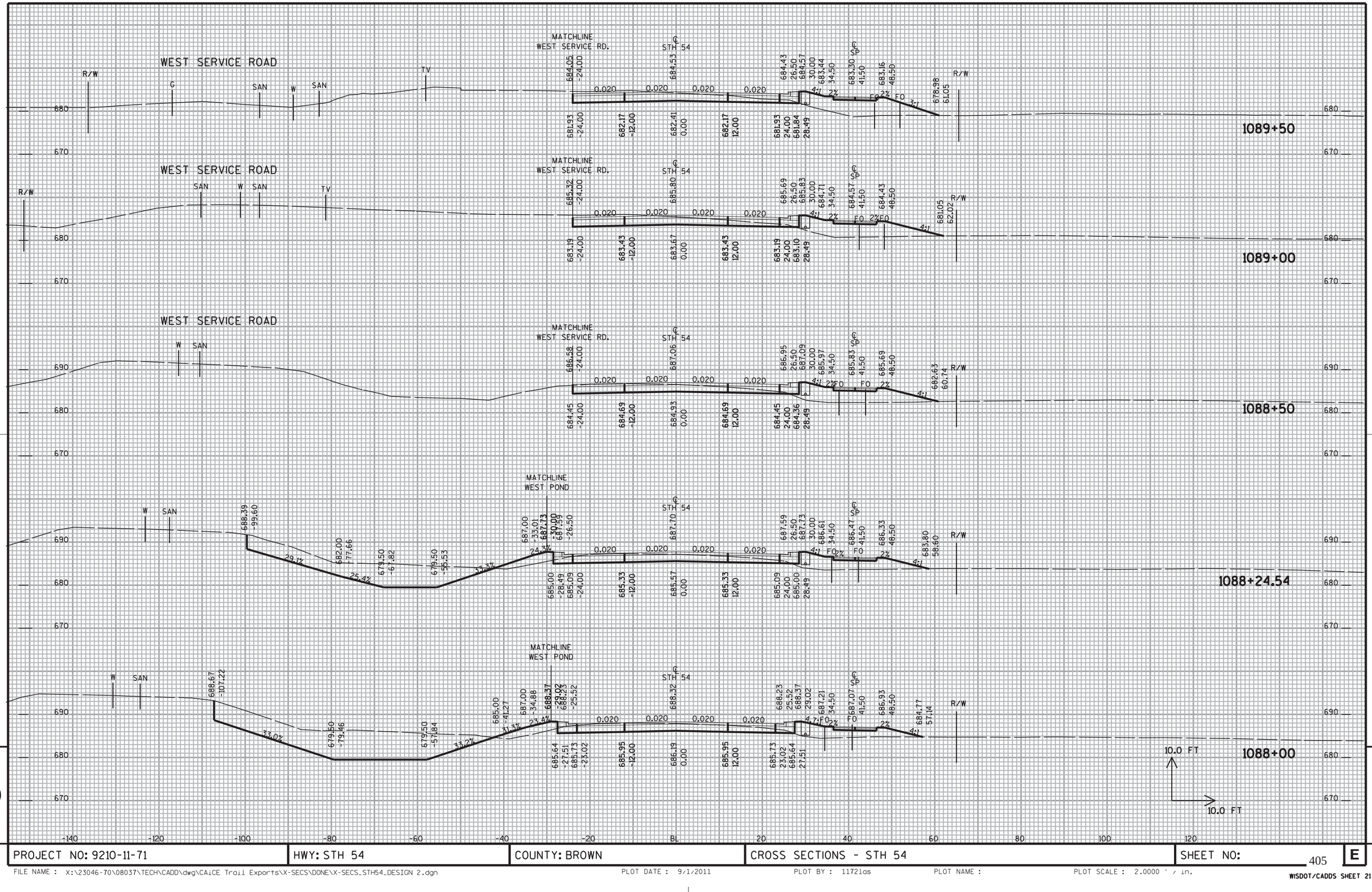
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STH 54	SHEET NO: 404	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\CAiCE Trail Exports\X-SECS\DONE\X-SECS_STH54_DESIGN 2.dgn PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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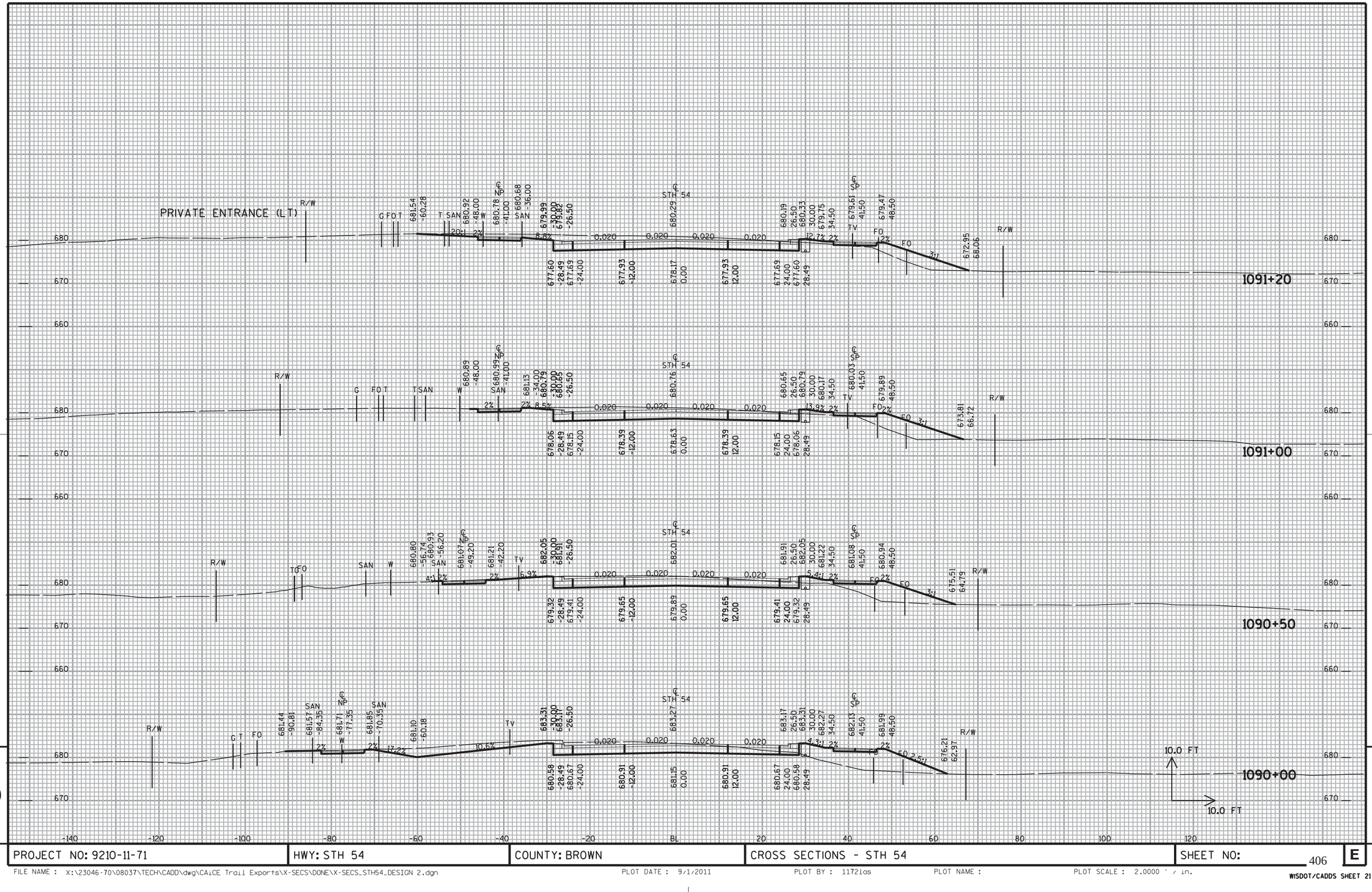
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STH 54	SHEET NO: 405	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\CAiCE Trail Exports\X-SECS\DONE\X-SECS_STH54_DESIGN 2.dgn PLOT DATE : 9/1/2011 PLOT BY : 11721gs PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STH 54	SHEET NO: 406	E

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PLOT DATE : 9/1/2011
PLOT BY : 11721as
PLOT NAME :
PLOT SCALE : 2.0000 ' / in.
WISDOT/CADDS SHEET 21

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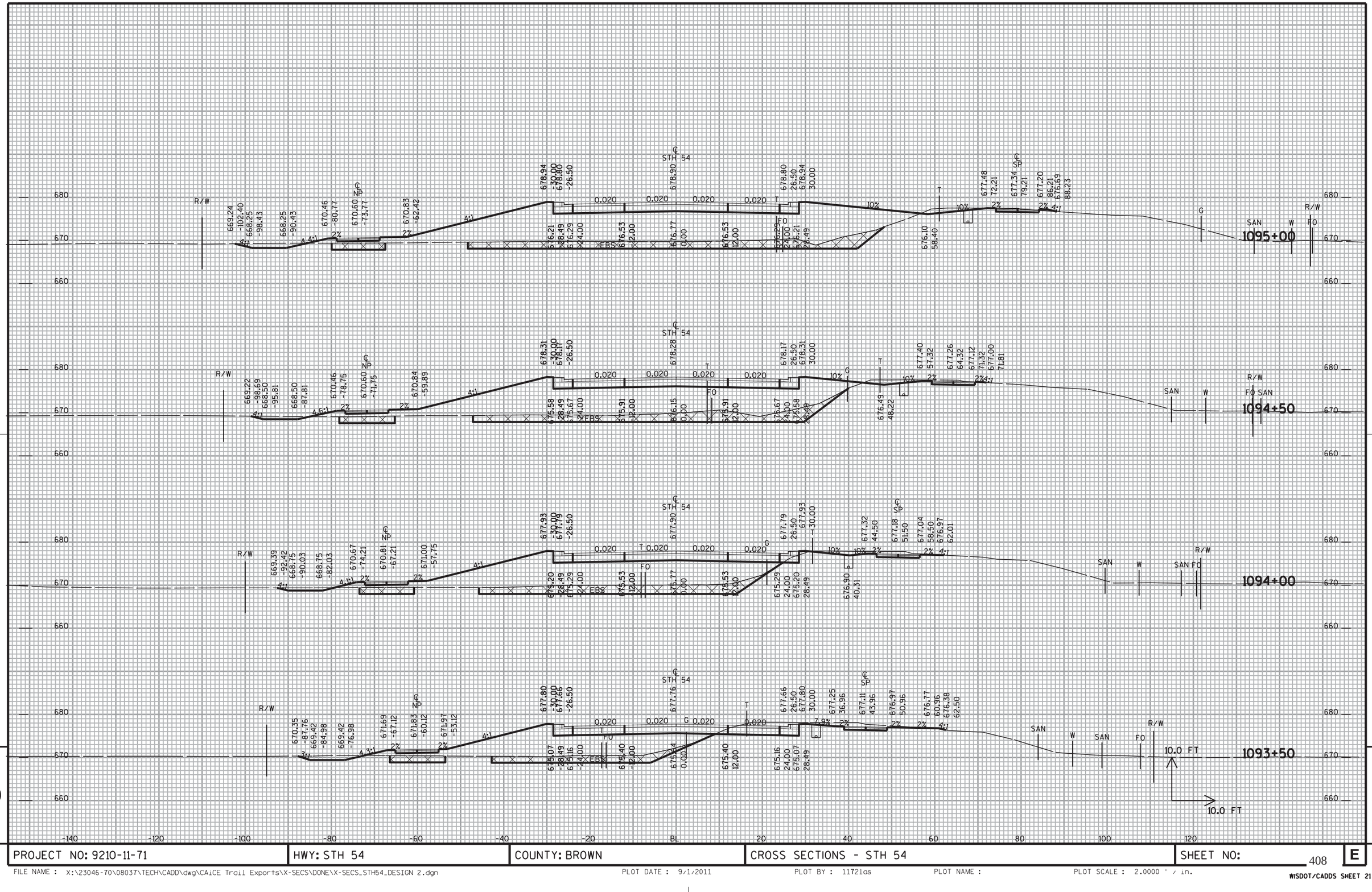
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STH 54	SHEET NO: 407	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\CAiCE Trail Exports\X-SECS\DONE\X-SECS_STH54_DESIGN 2.dgn PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STH 54	SHEET NO: 408	E

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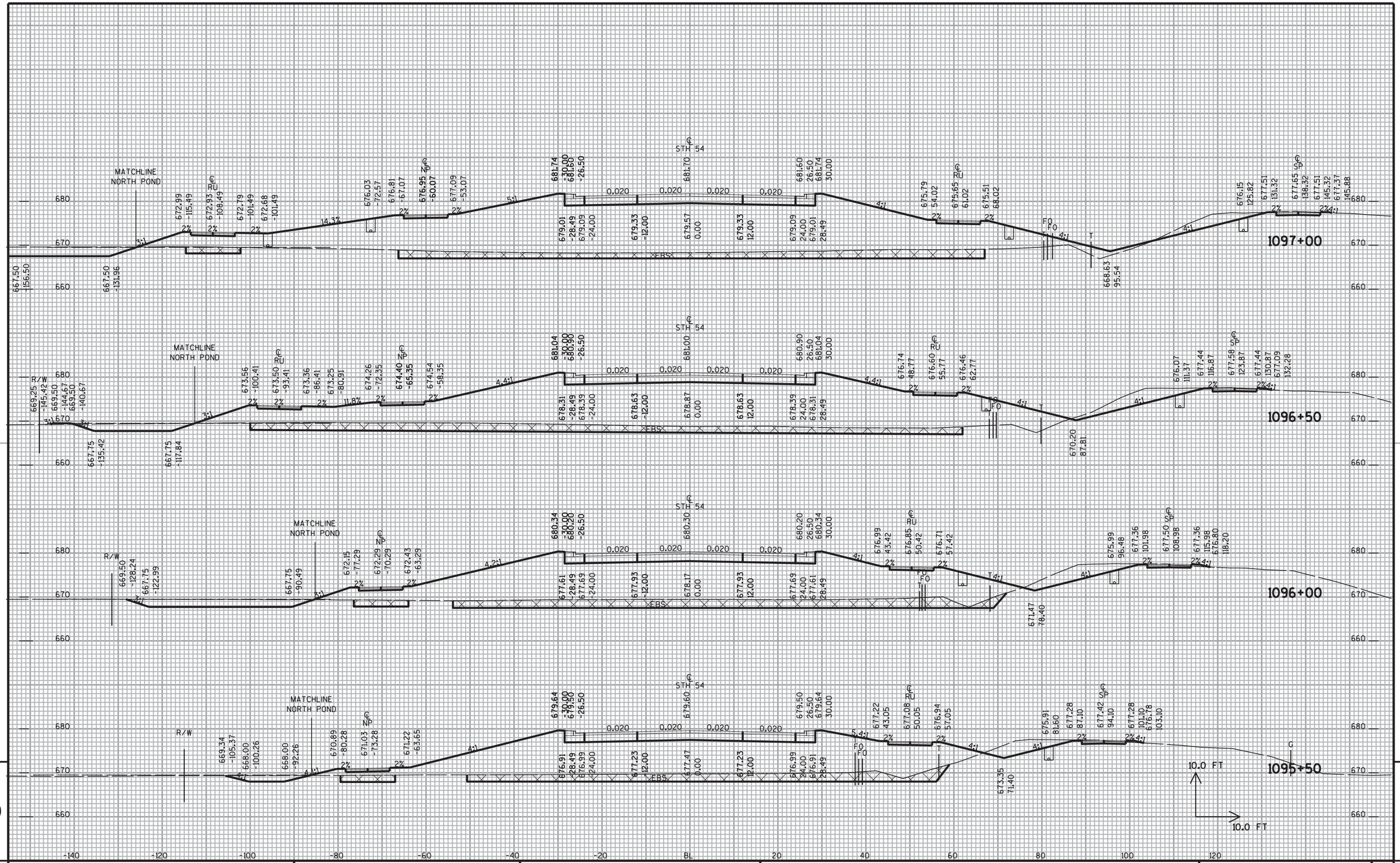
WISDOT/CADDS SHEET 21



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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STH 54	SHEET NO: 409	E

FILE NAME : X:±23046-70±08037±TECH±CADD±dwg±CAiCE Trail Exports±X-SECS±DONE±X-SECS_STH54_DESIGN 2.dgn | PLOT DATE : 9/1/2011 | PLOT BY : 1172las | PLOT NAME : | PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21

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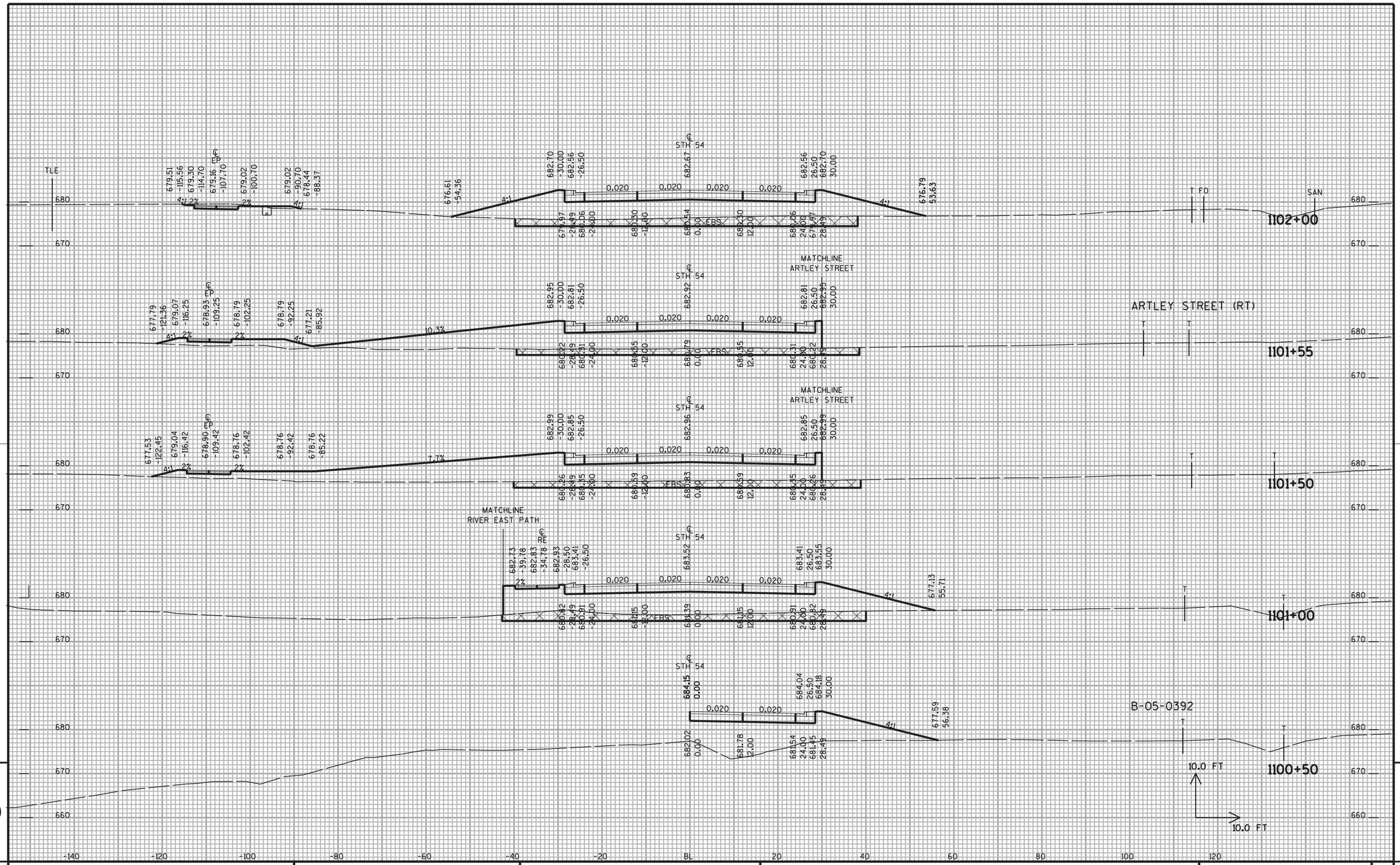
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STH 54	SHEET NO: 410	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\CAiCE Trail Exports\X-SECS\DONE\X-SECS_STH54_DESIGN 2.dgn PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STH 54	SHEET NO: 411	E

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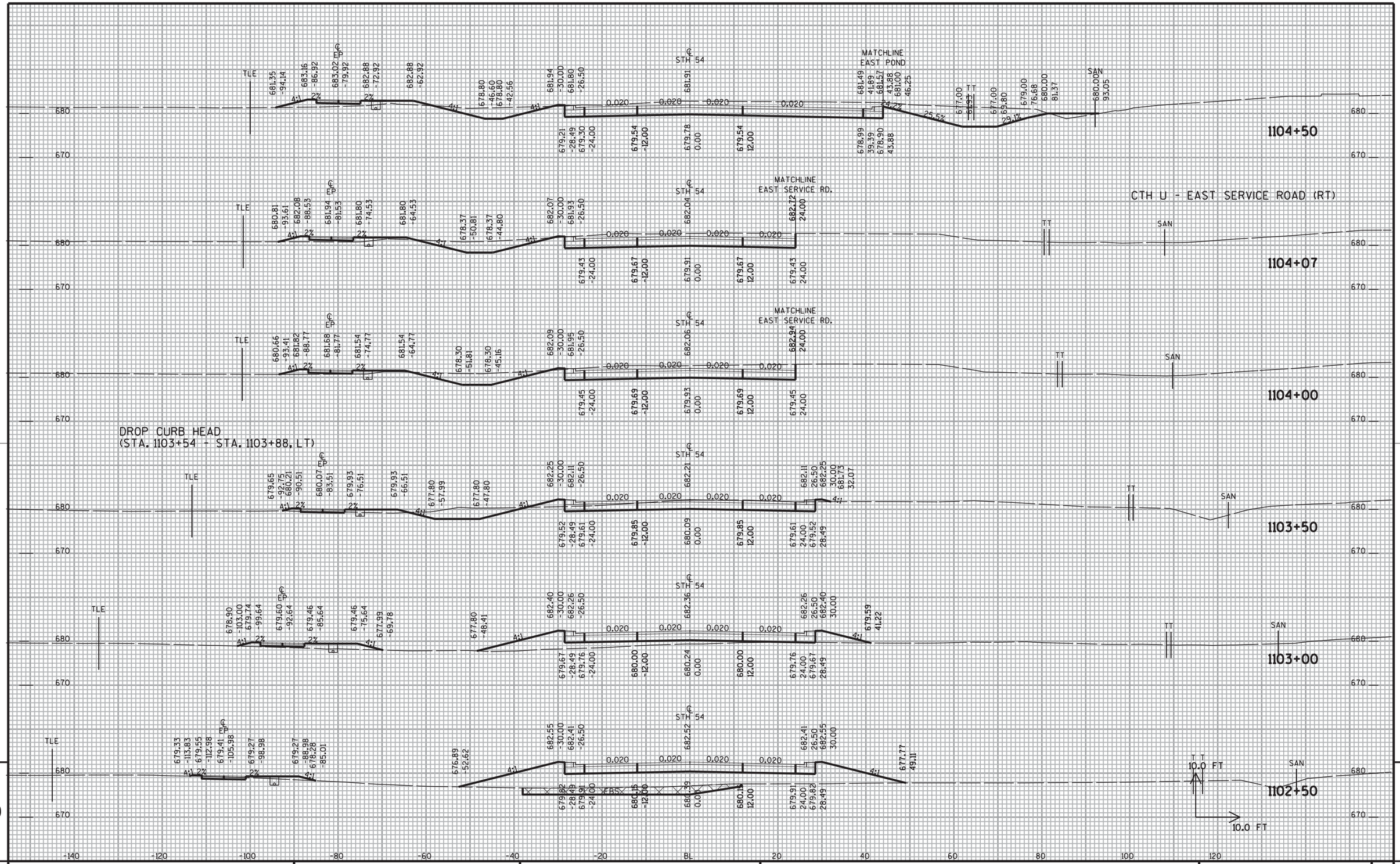
WISDOT/CADDS SHEET 21



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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STH 54	SHEET NO: 412	E

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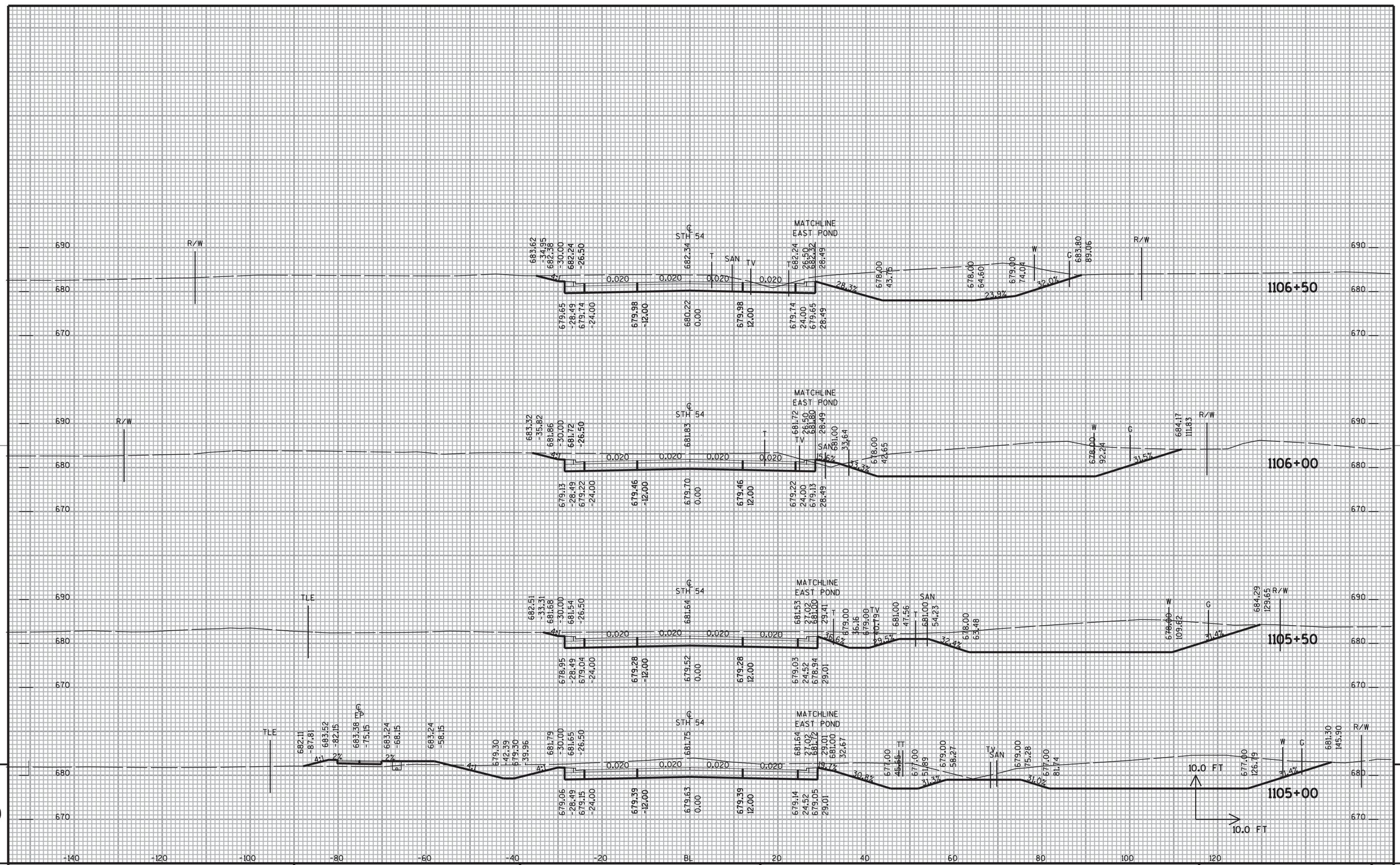
WISDOT/CADDS SHEET 21



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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STH 54	SHEET NO: 413	E

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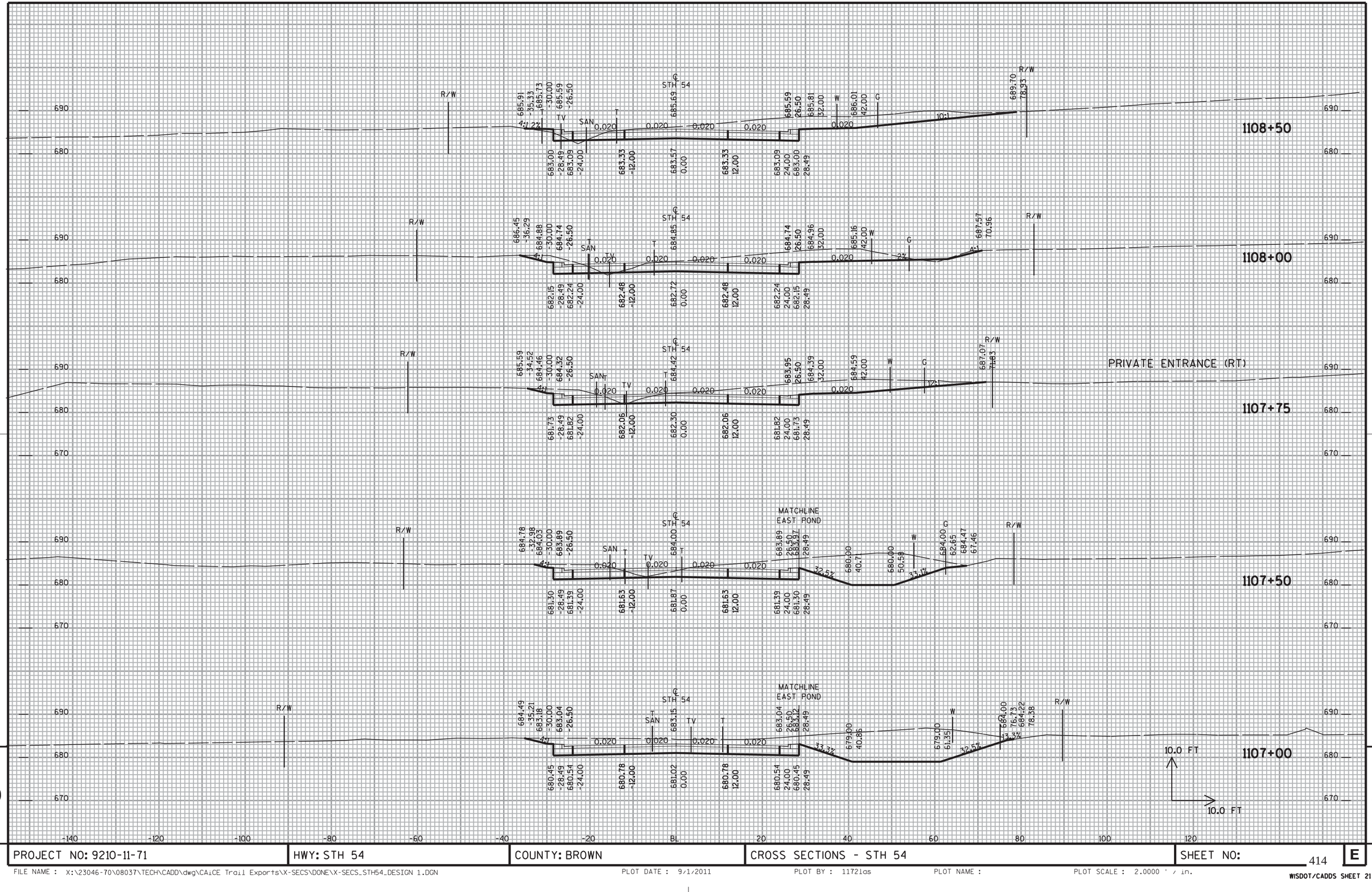

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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STH 54	SHEET NO: 414	E

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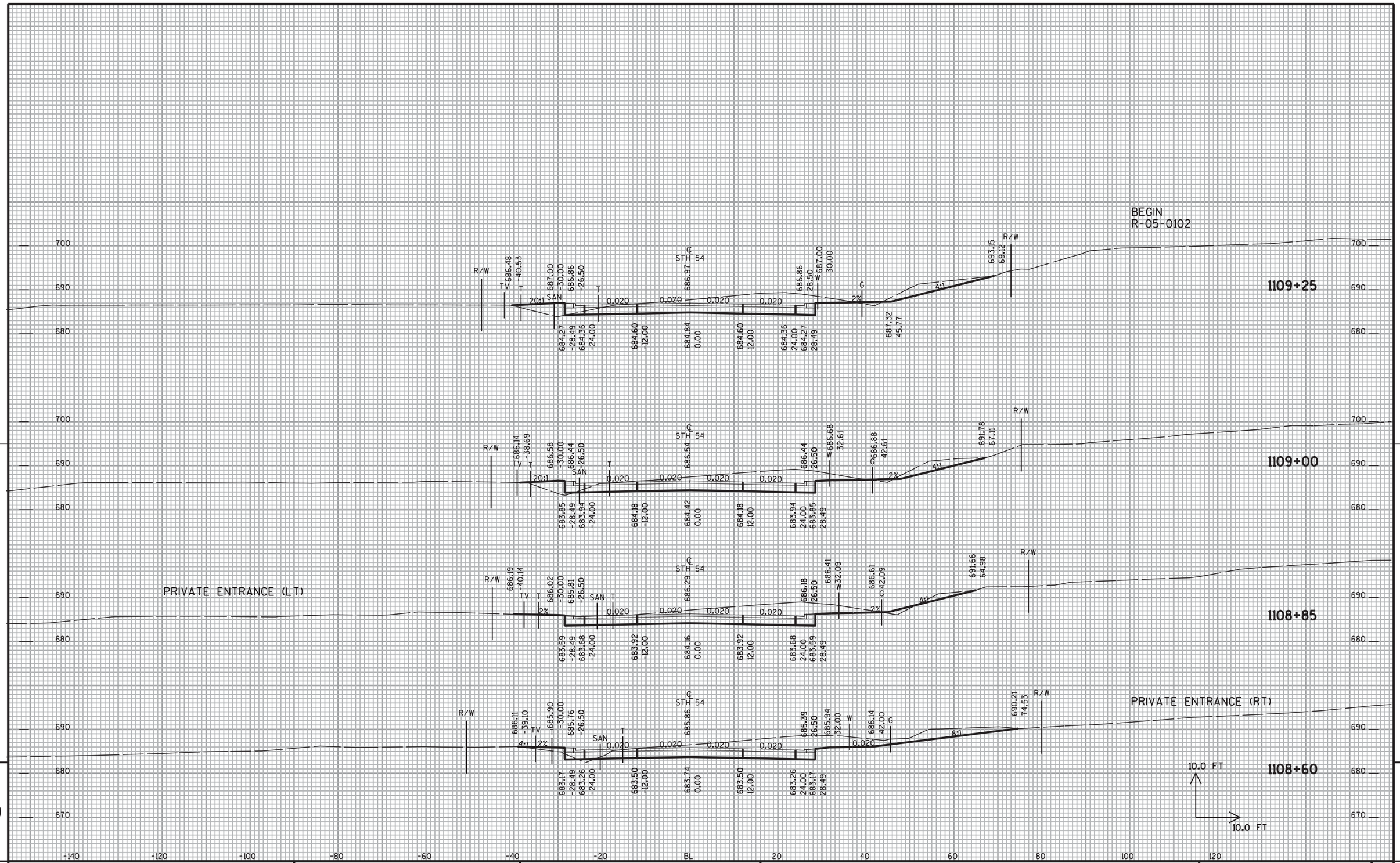
WISDOT/CADDS SHEET 21



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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STH 54	SHEET NO: 415	E

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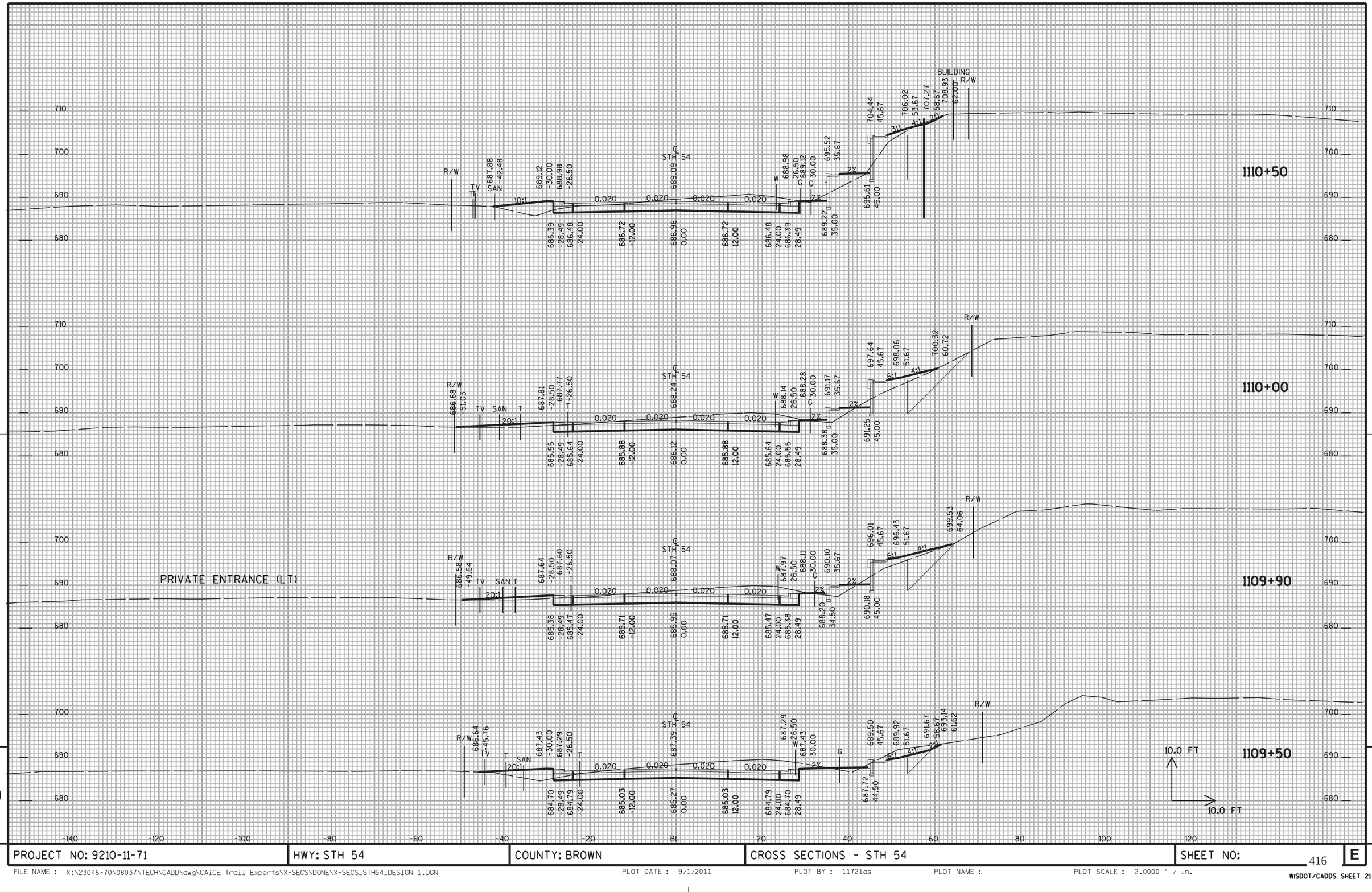
WISDOT/CADDS SHEET 21



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STH 54	SHEET NO: 416	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\CAiCE Trail Exports\X-SECS\DONE\X-SECS_STH54_DESIGN 1.DGN
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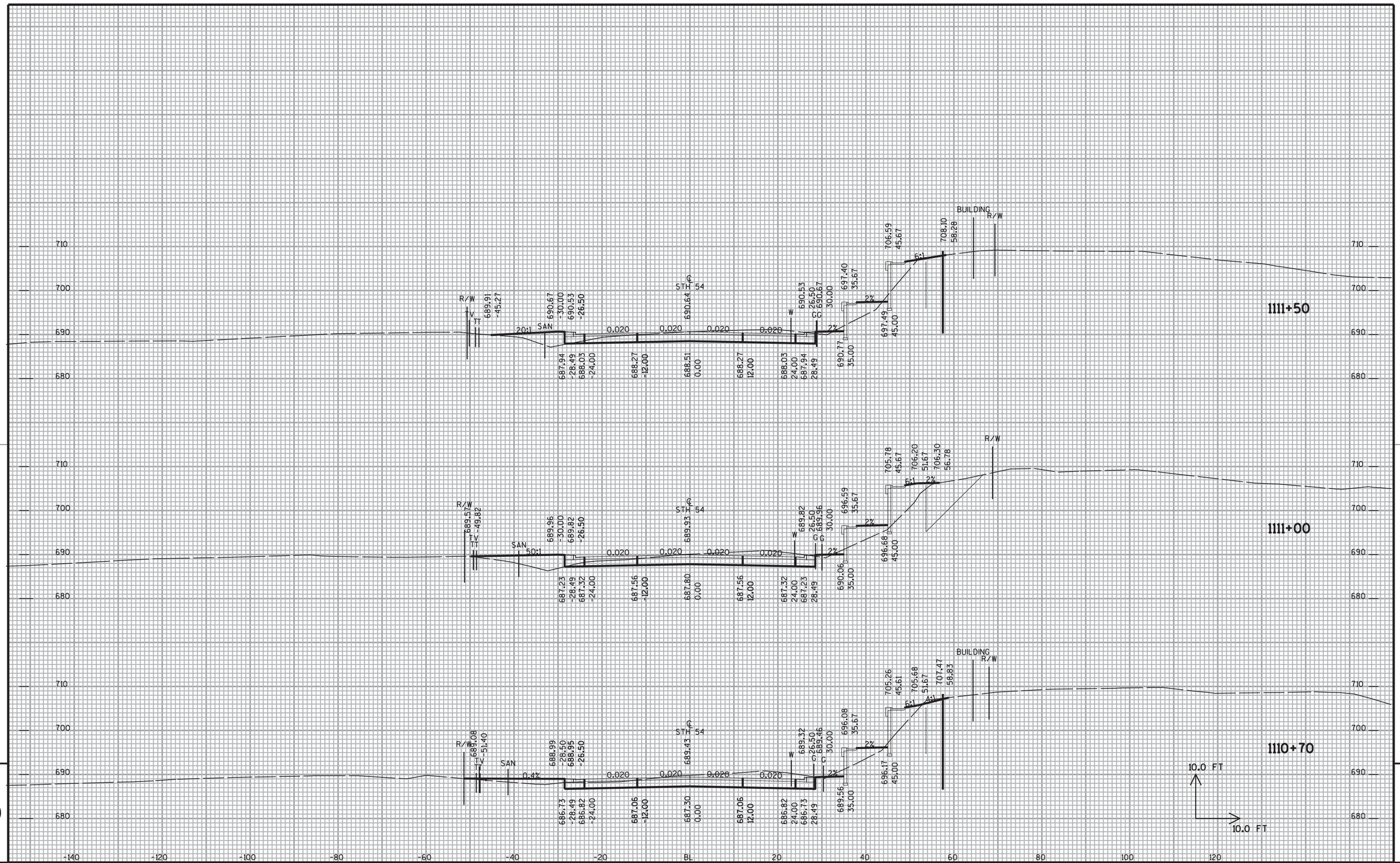
PLOT BY : 11721gs
PLOT NAME :
PLOT SCALE : 2.0000 ' / in.
WISDOT/CADDS SHEET 21



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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STH 54	SHEET NO: 417	E

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END PROJECT
STA 1113+00.00

END R-05-102

1113+00

1112+50

1112+00

PRIVATE ENTRANCE (LT)

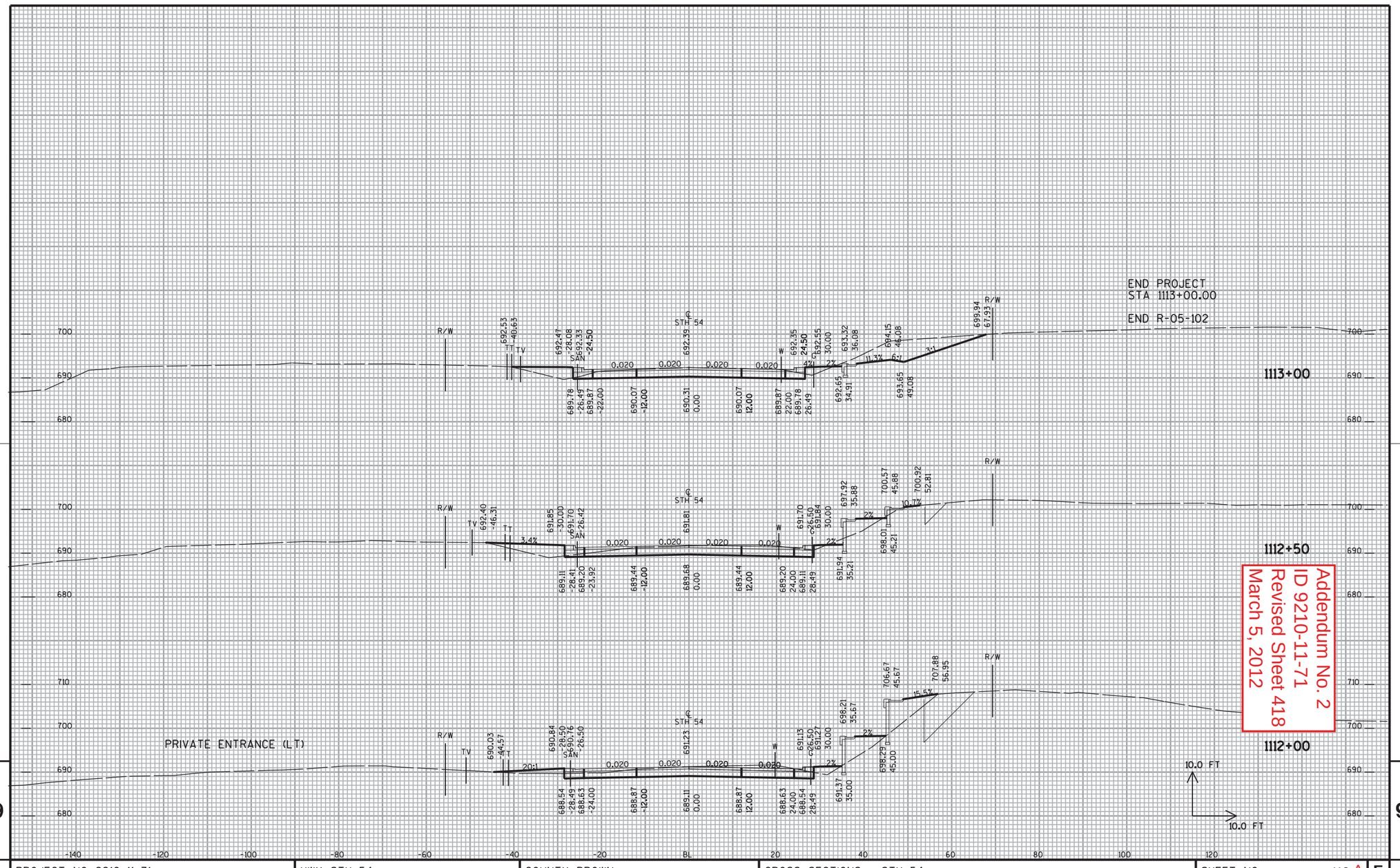
10.0 FT

10.0 FT

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STH 54	SHEET NO: 418 E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\CAiCE Trail Exports\X-SECS\DONE\X-SECS_STH54_DESIGN 1.DGN PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



Addendum No. 2
ID 9210-11-71
Revised Sheet 418
March 5, 2012

9 9

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STH 54	SHEET NO: 418 A	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\CAiCE Trail Exports\X-SECS\DONE\X-SECS_STH54_DESIGN 1.DGN PLOT DATE : 2/20/2012 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

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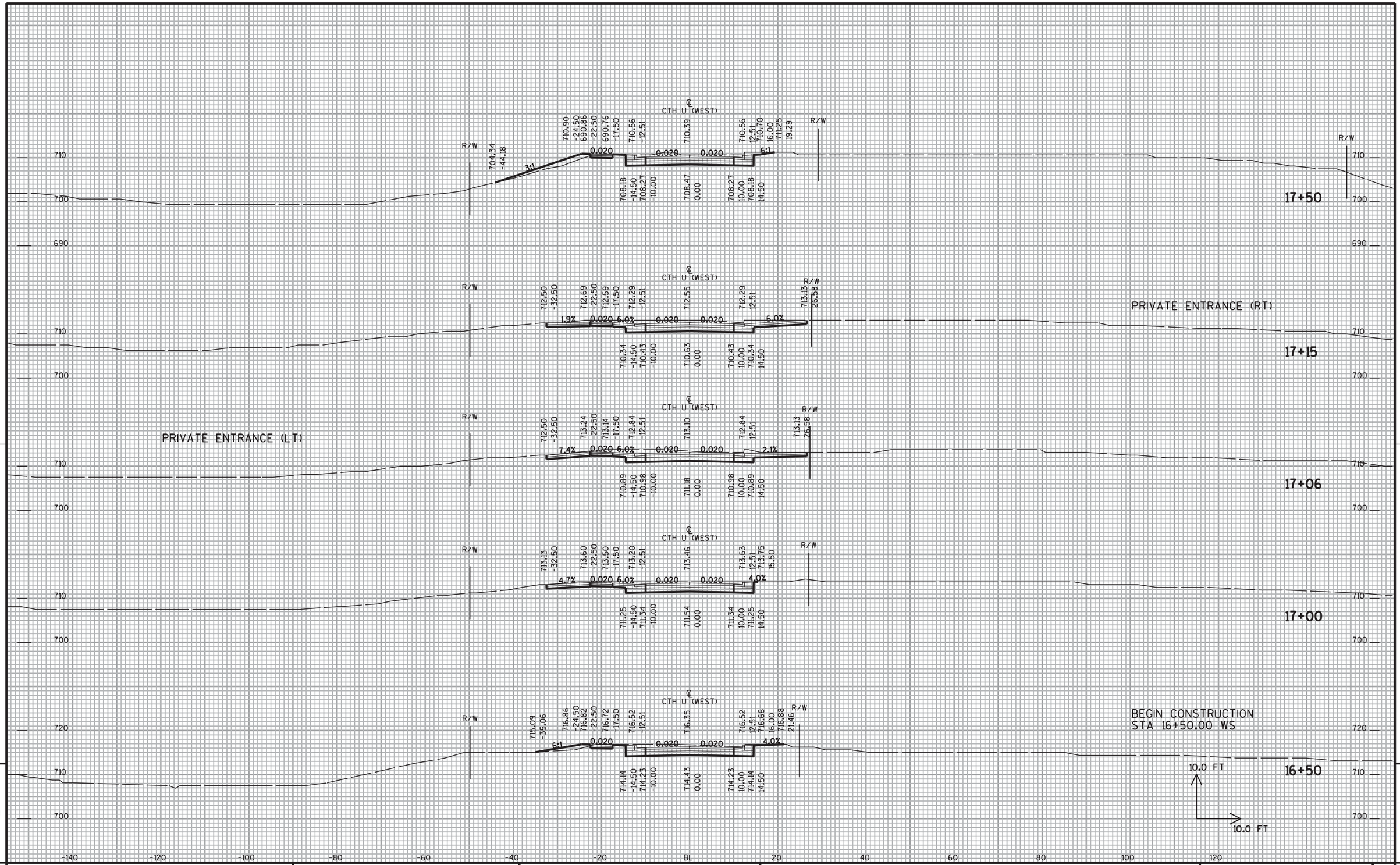

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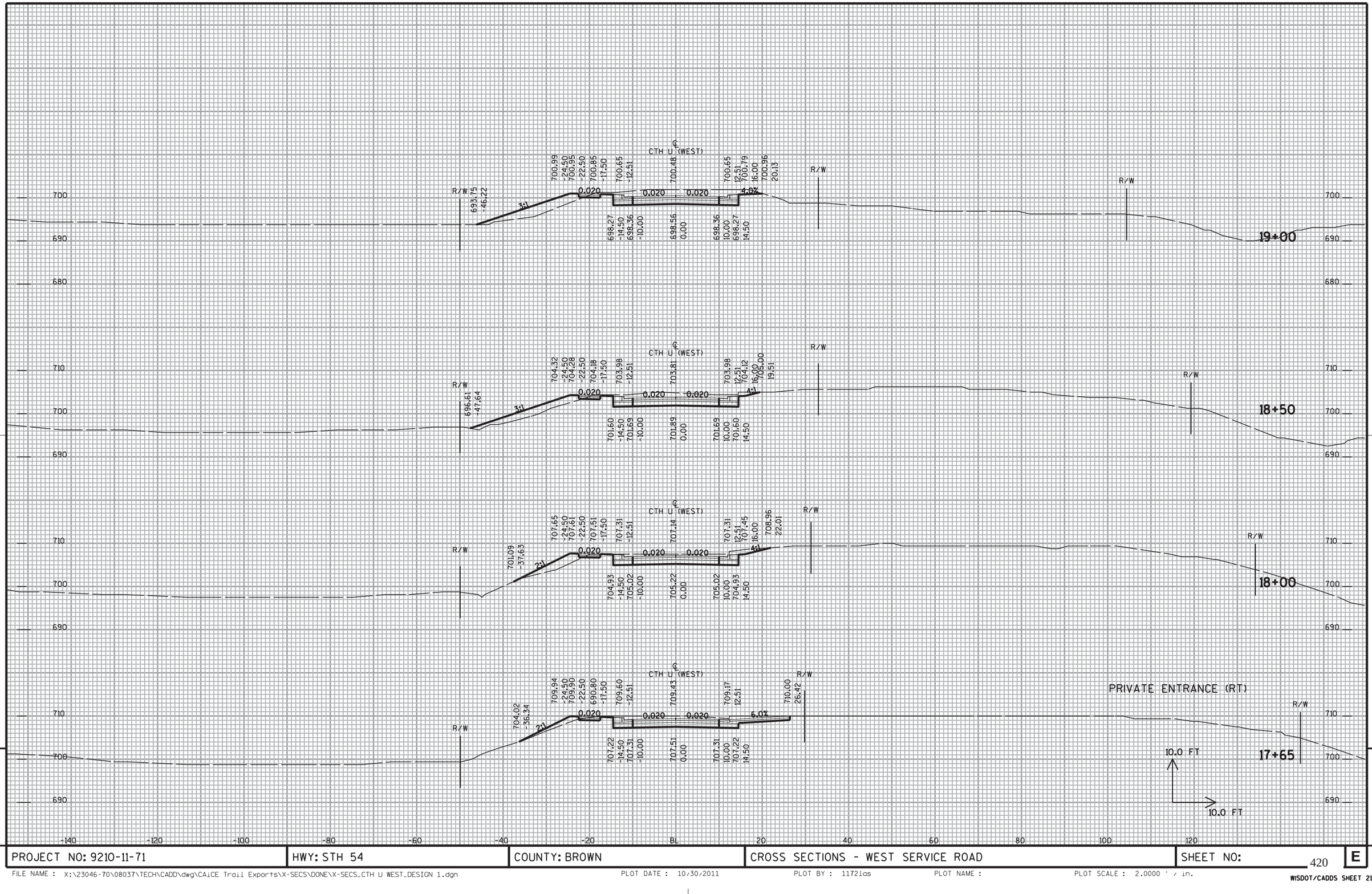
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - WEST SERVICE ROAD	SHEET NO: 419	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\CAiCE Trail Exports\X-SECS\DONE\X-SECS_CTH U WEST_DESIGN 1.dgn PLOT DATE : 10/30/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - WEST SERVICE ROAD	SHEET NO: 420	E

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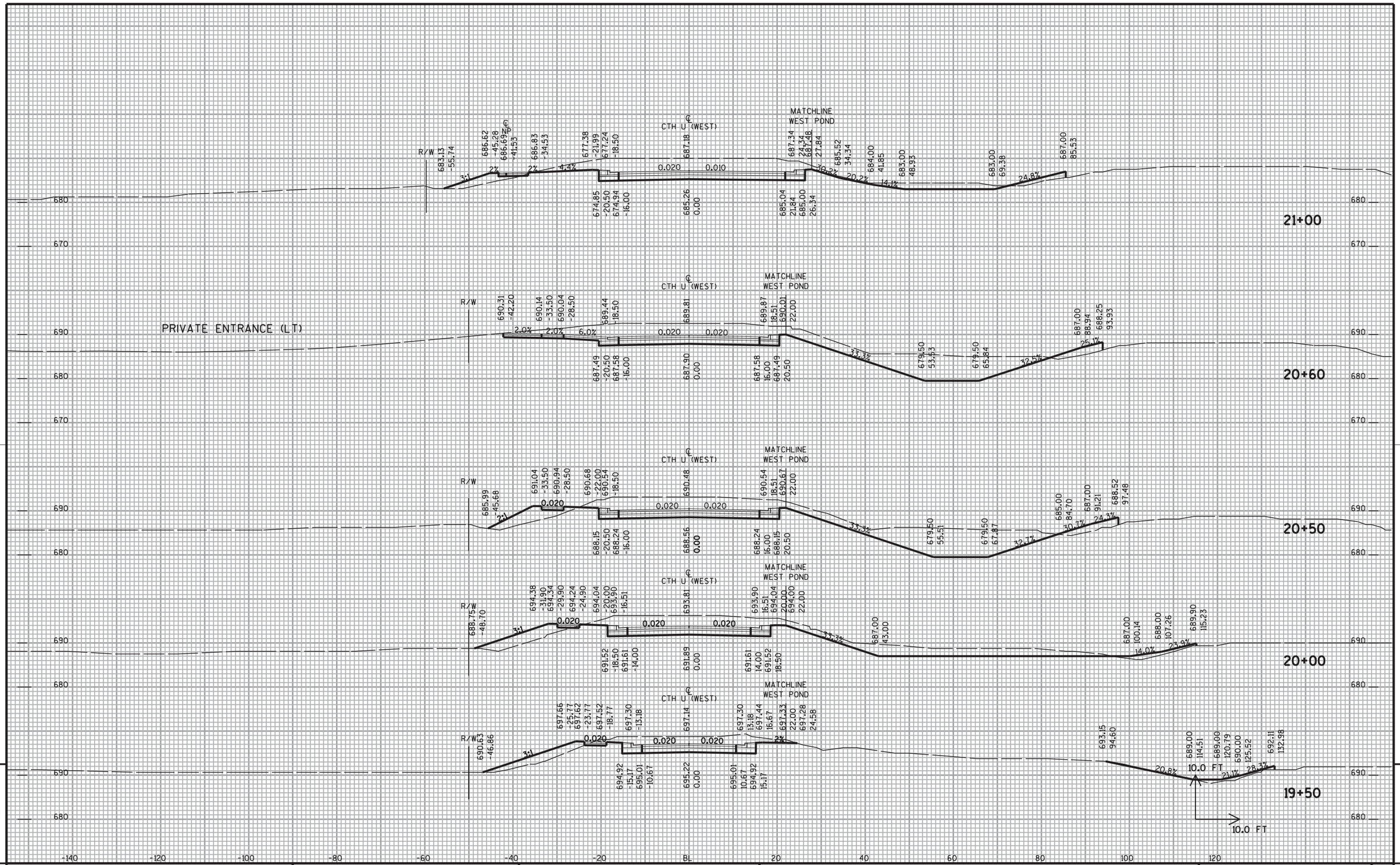

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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - WEST SERVICE ROAD	SHEET NO: 421	E

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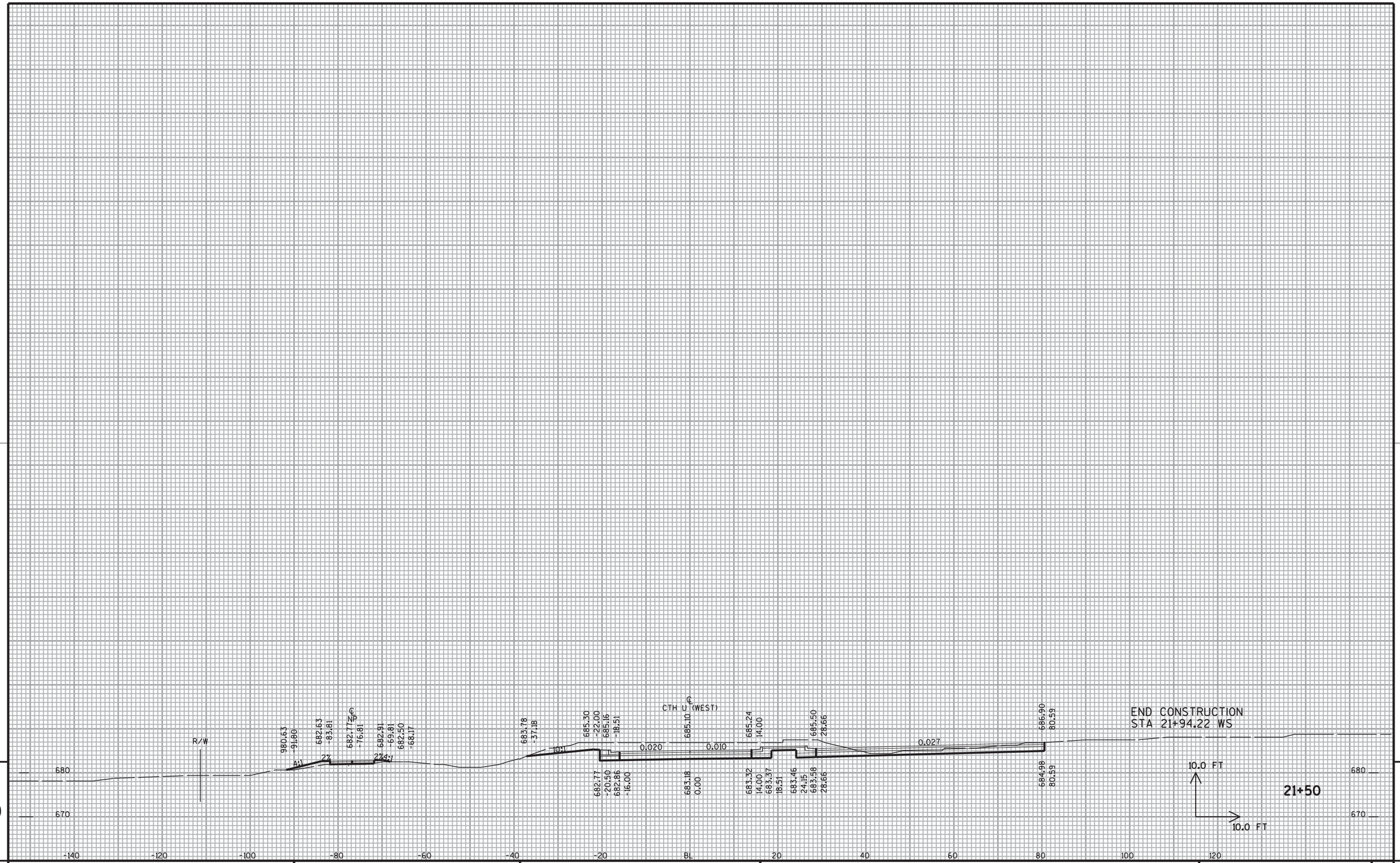

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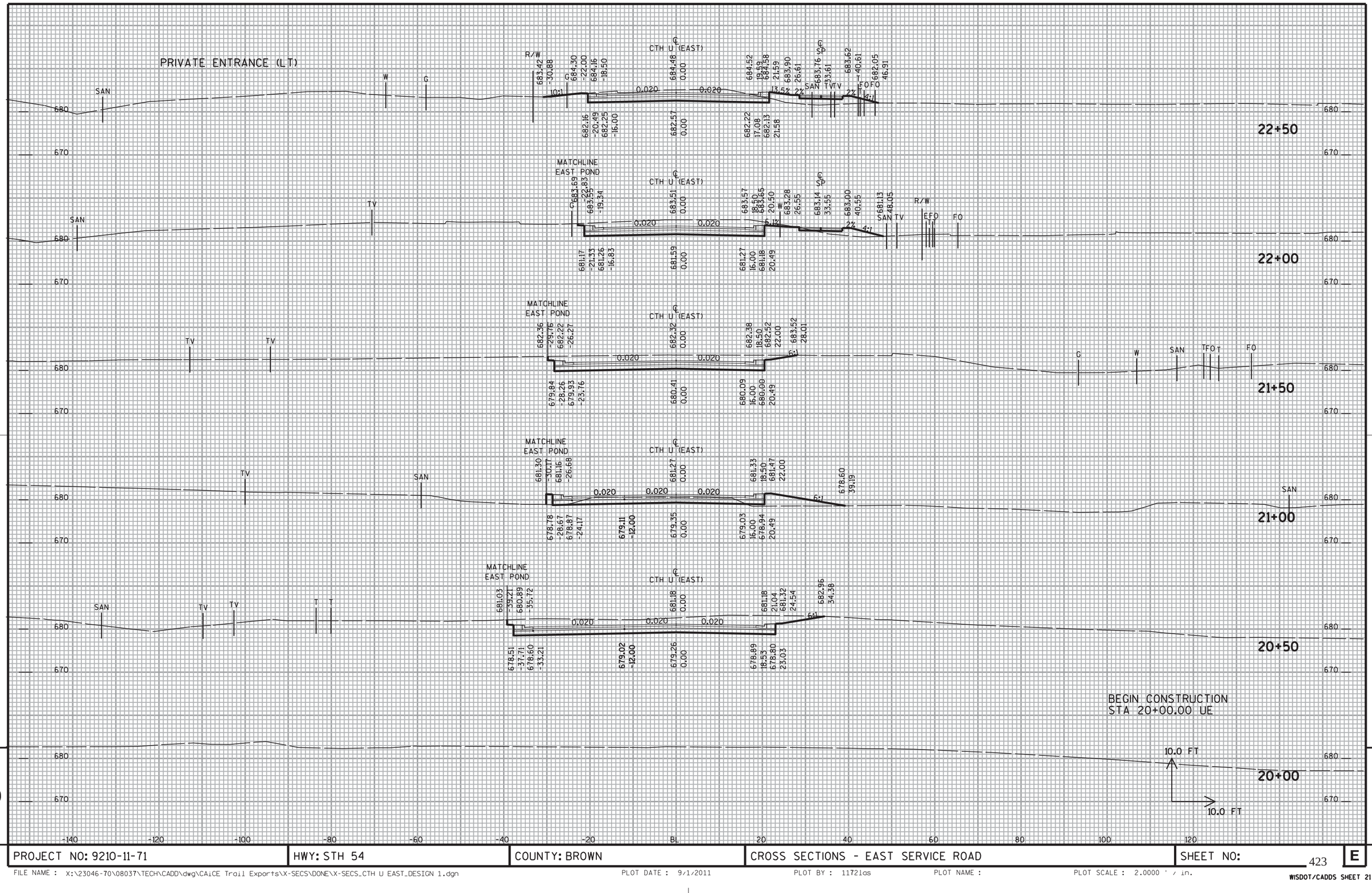

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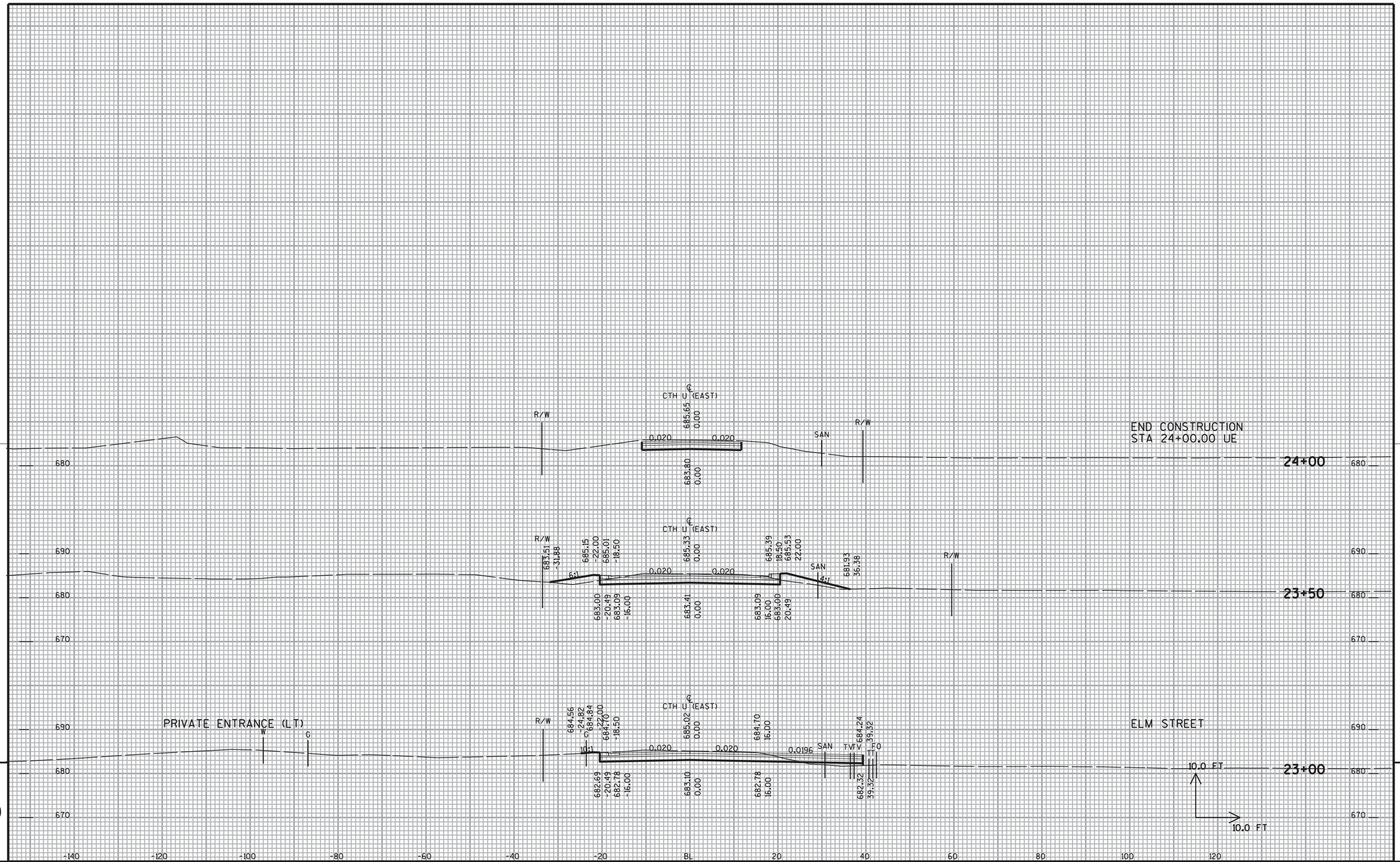
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - EAST SERVICE ROAD	SHEET NO:	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\CAiCE Trail Exports\X-SECS\DONE\X-SECS_CTH U EAST_DESIGN 1.dgn PLOT DATE : 9/1/2011 PLOT BY : 1172las PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - EAST SERVICE ROAD	SHEET NO: 424	E

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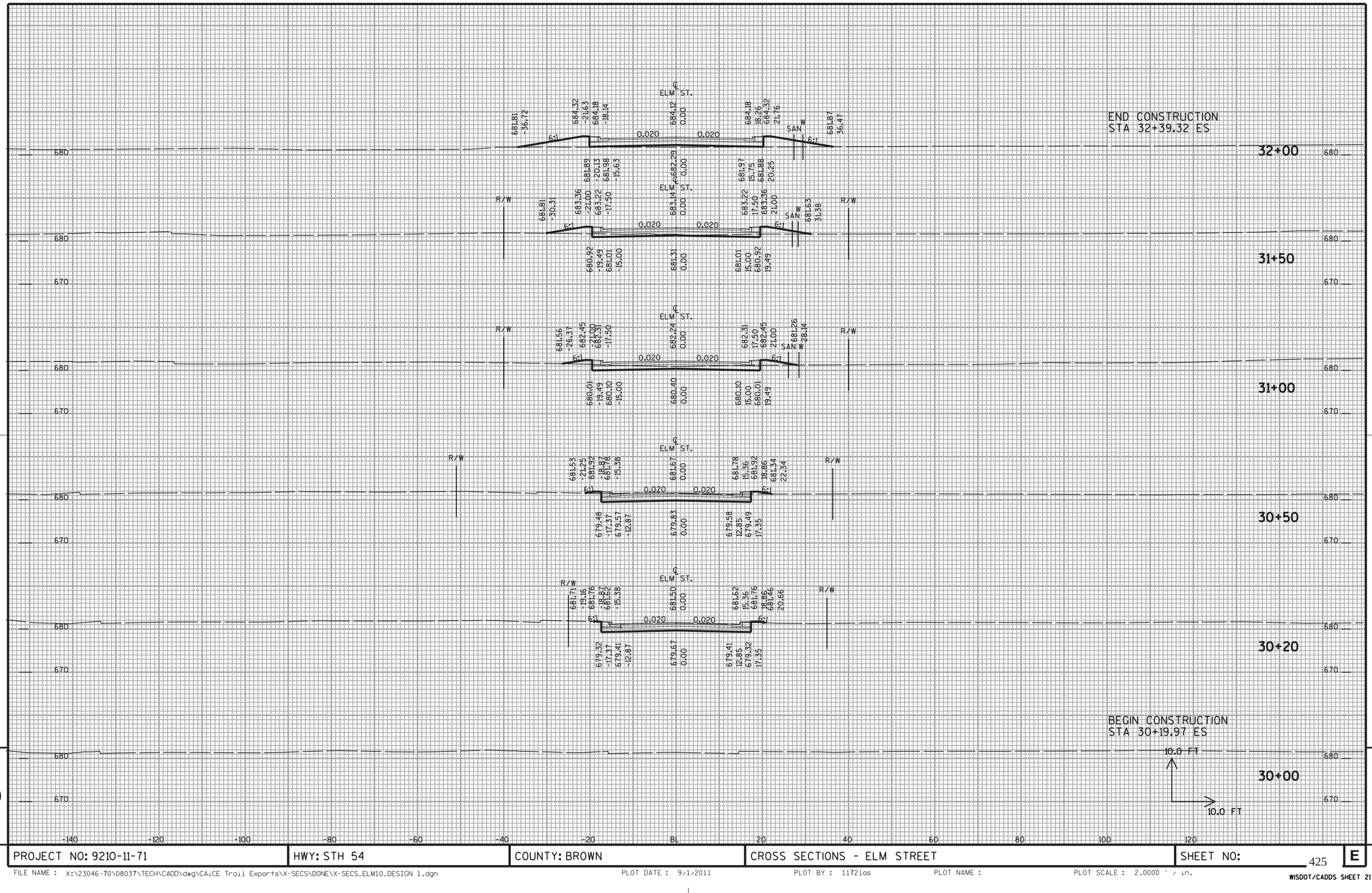

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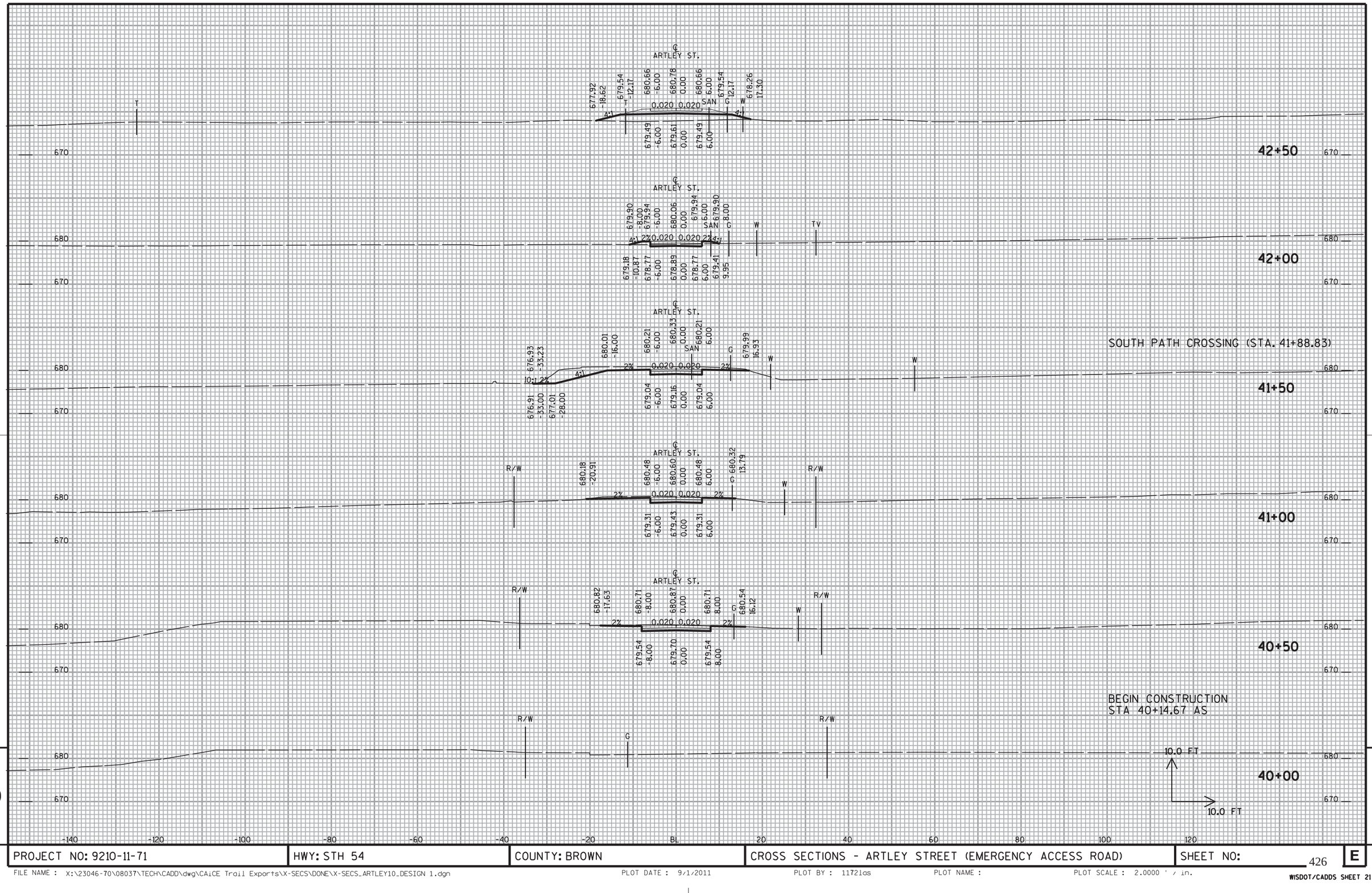
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - ELM STREET	SHEET NO:	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\CAiCE Trail Exports\X-SECS\DONE\X-SECS_ELM10_DESIGN 1.dgn PLOT DATE : 9/1/2011 PLOT BY : 1172las PLOT NAME : PLOT SCALE : 2.0000 ' / in.



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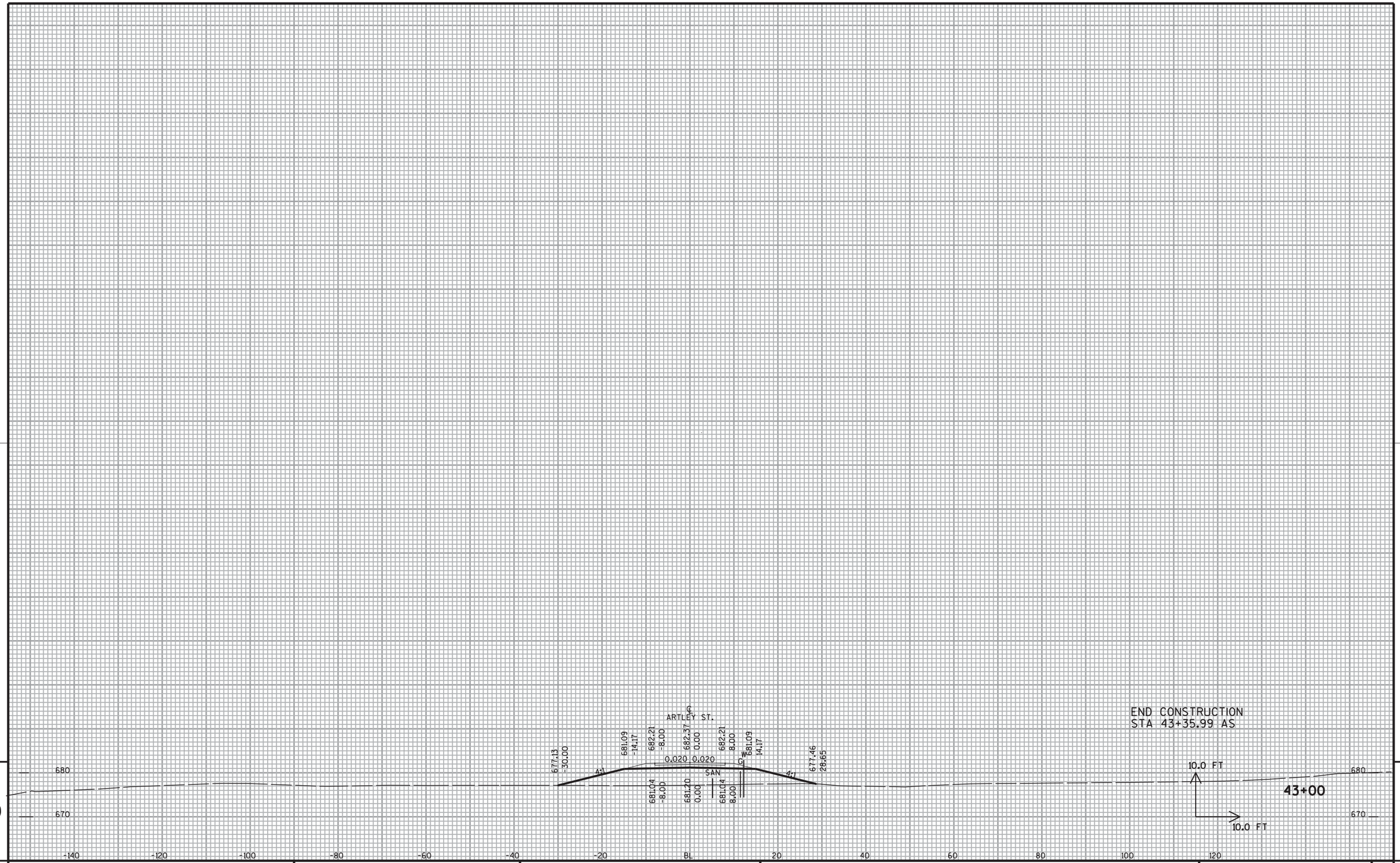
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - ARTLEY STREET (EMERGENCY ACCESS ROAD)	SHEET NO:	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\CAiCE Trail Exports\X-SECS\DONE\X-SECS_ARTLEY10_DESIGN 1.dgn PLOT DATE : 9/1/2011 PLOT BY : 1172las PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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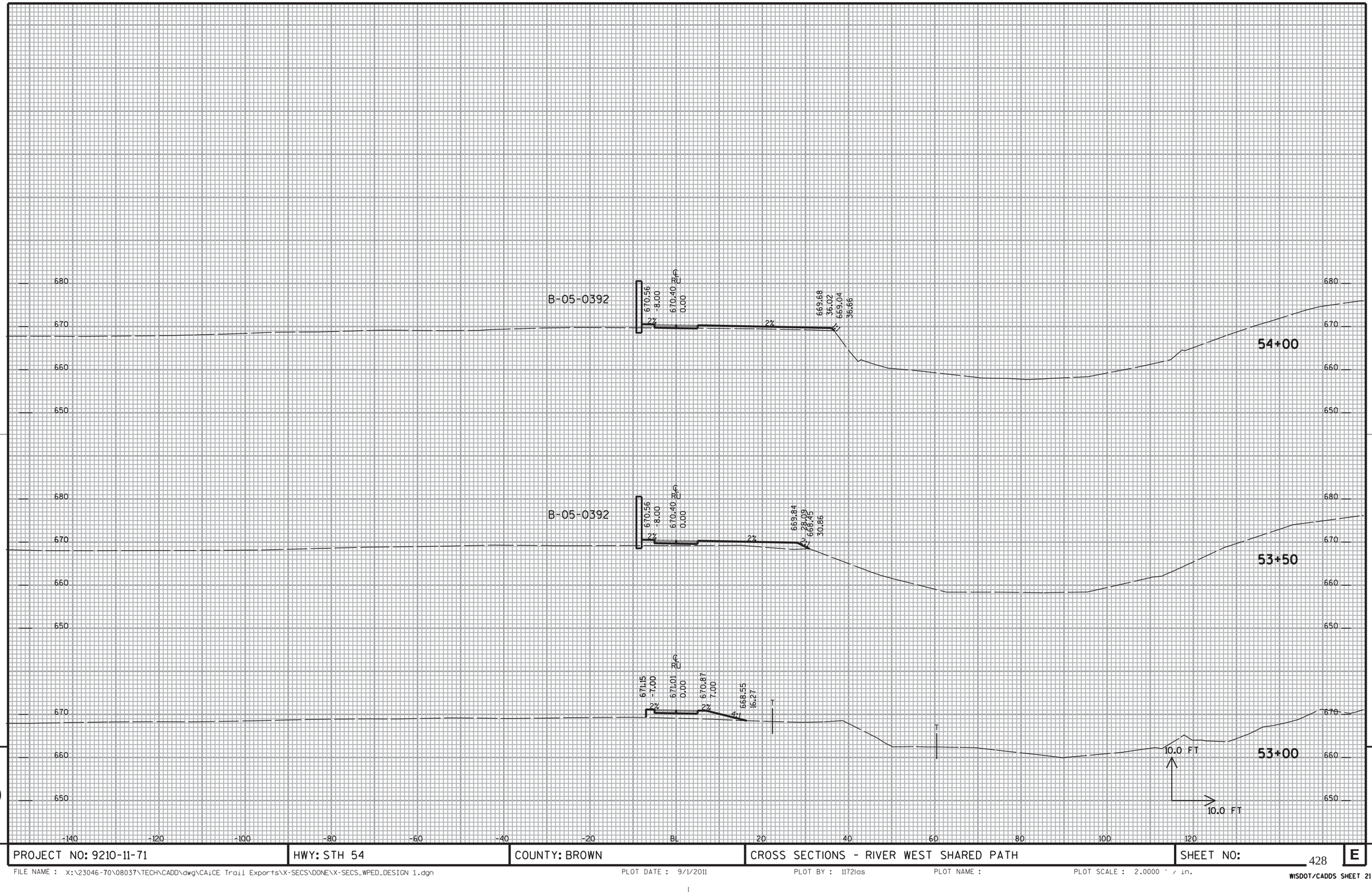
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - ARTLEY STREET (EMERGENCY ACCESS ROAD)	SHEET NO: 427	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\CAiCE Trail Exports\X-SECS\DONE\X-SECS_ARTLEY10_DESIGN 1.dgn PLOT DATE : 9/1/2011 PLOT BY : 11721gs PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - RIVER WEST SHARED PATH	SHEET NO: 428	E

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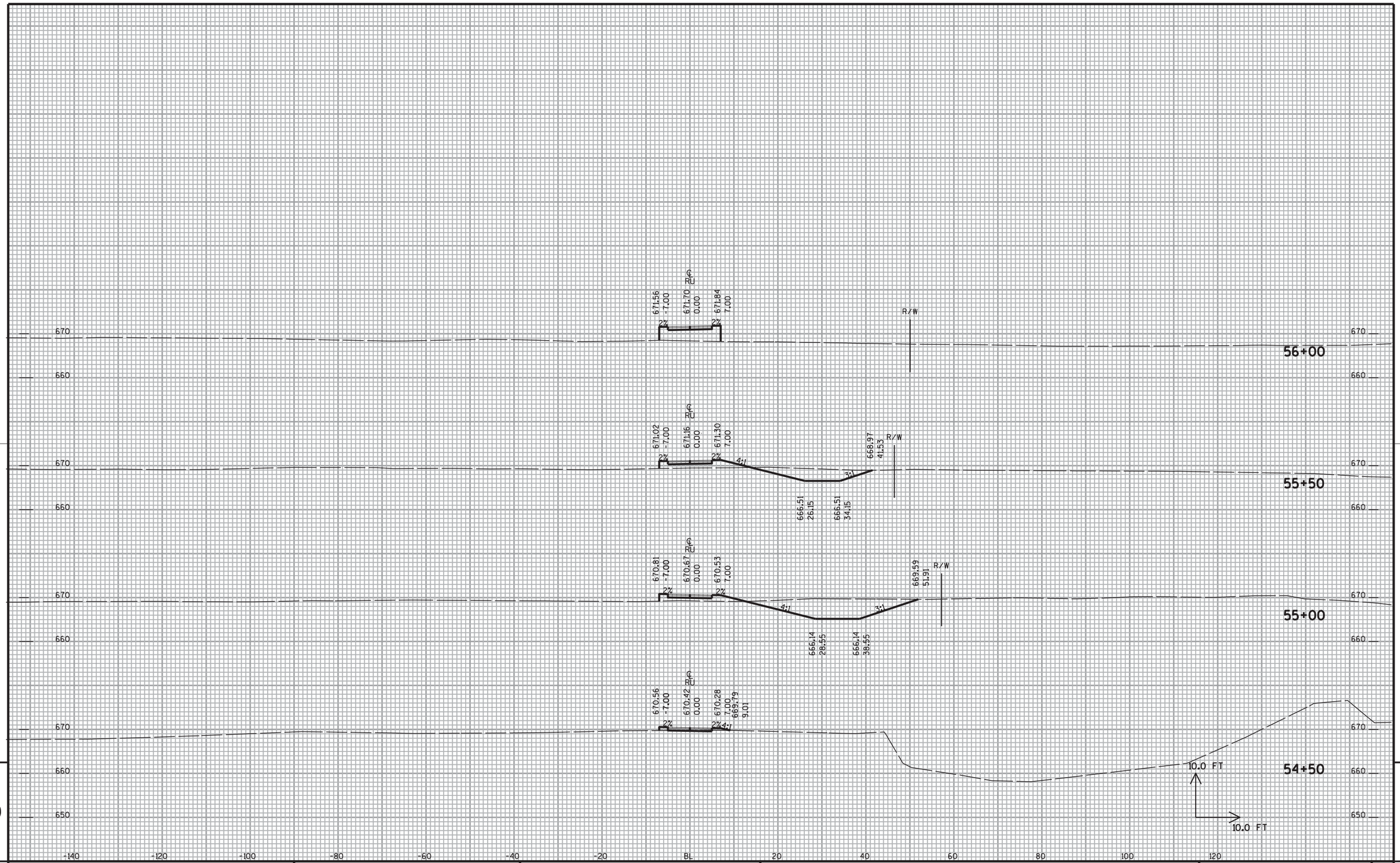
WISDOT/CADDS SHEET 21



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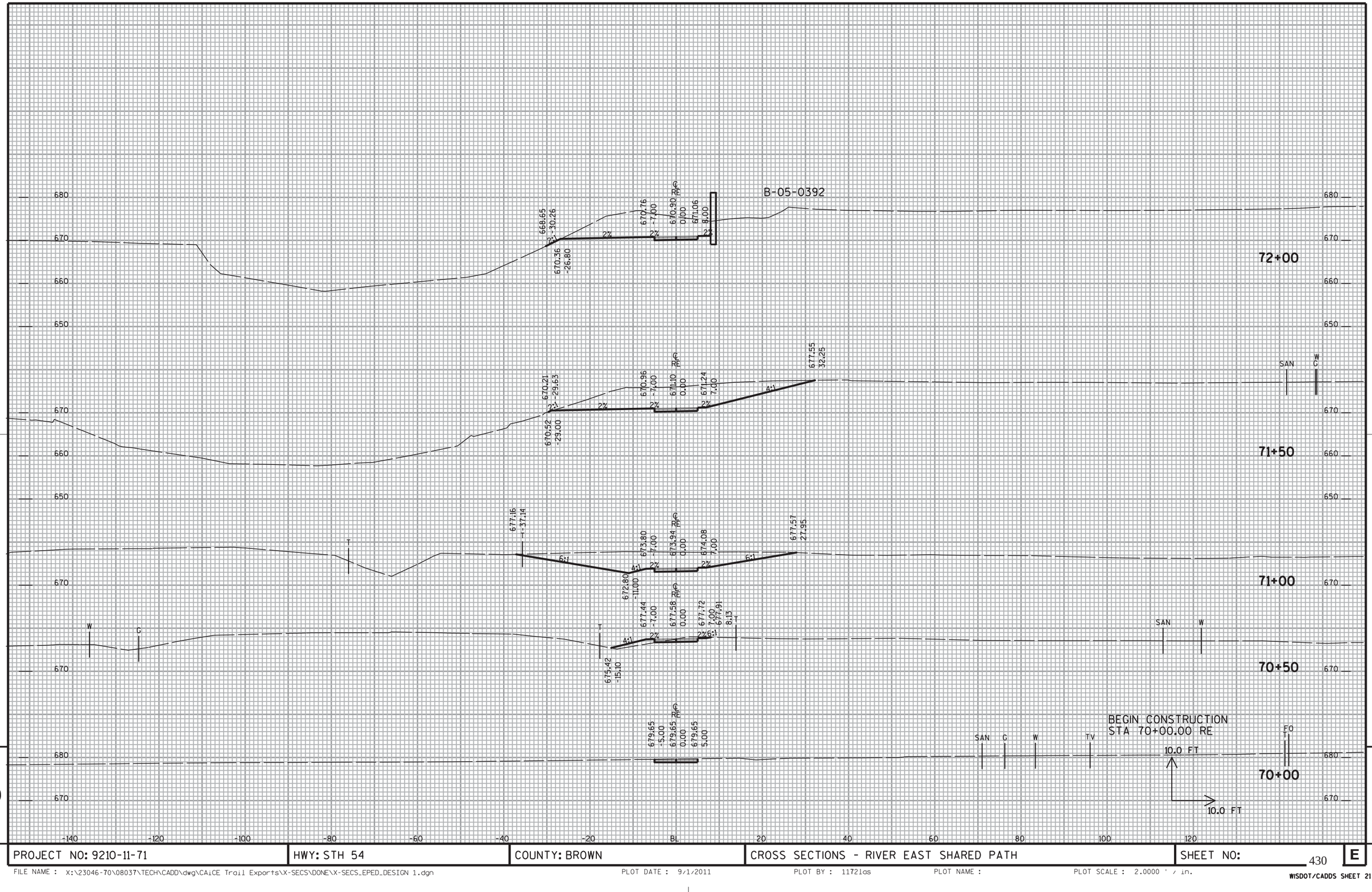
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - RIVER WEST SHARED PATH	SHEET NO:	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\CAiCE Trail Exports\X-SECS\DONE\X-SECS_WPED_DESIGN 1.dgn PLOT DATE : 9/1/2011 PLOT BY : 1172las PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - RIVER EAST SHARED PATH	SHEET NO: 430	E

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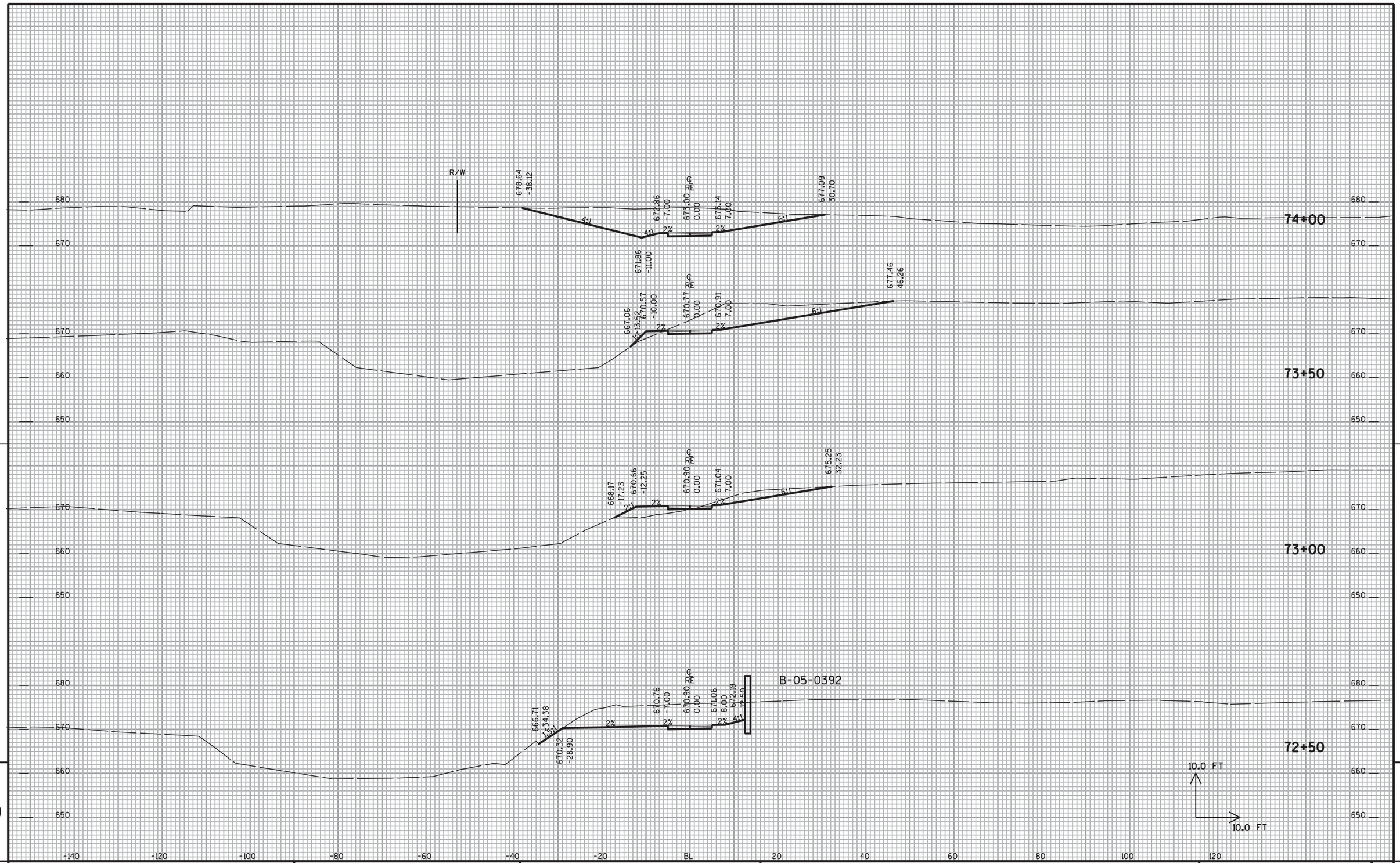
PLOT DATE : 9/1/2011
PLOT BY : 11721as
PLOT NAME :
PLOT SCALE : 2.0000 ' / in.



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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - RIVER EAST SHARED PATH	SHEET NO: 431	E

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WISDOT/CADDS SHEET 21

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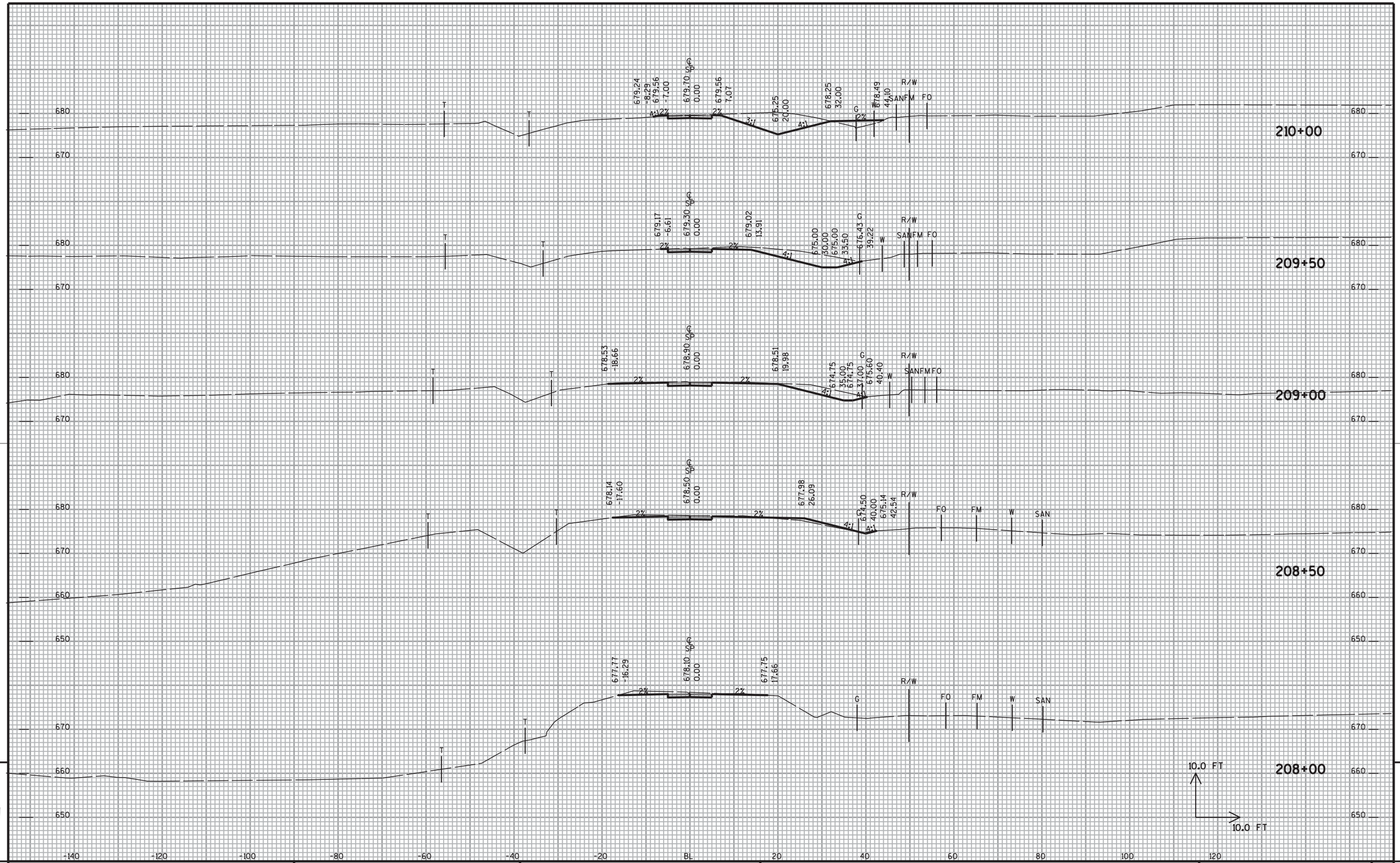
9

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - RIVER EAST SHARED PATH	SHEET NO:	E



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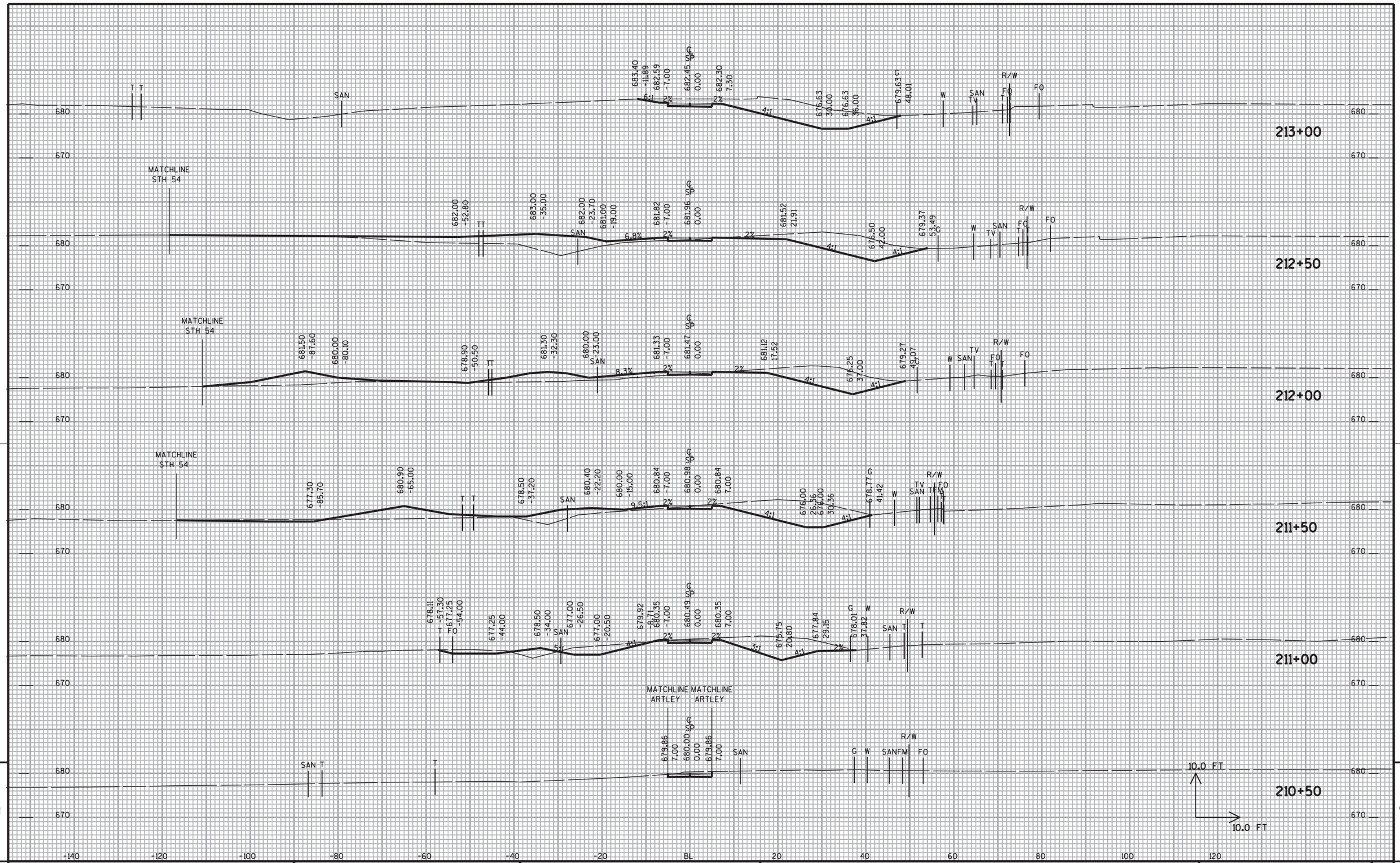
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - SOUTH SHARED PATH	SHEET NO: 433	E

FILE NAME : X:±23046-70±08037±TECH±CADD±dwg±CAICE Trail Exports±X-SECS±DONE±X-SECS_SPED_DESIGN 1.dgn

PLOT DATE : 9/1/2011 PLOT BY : 1172las PLOT NAME : PLOT SCALE : 2.0000 '/ in.

WISDOT/CADDS SHEET 21



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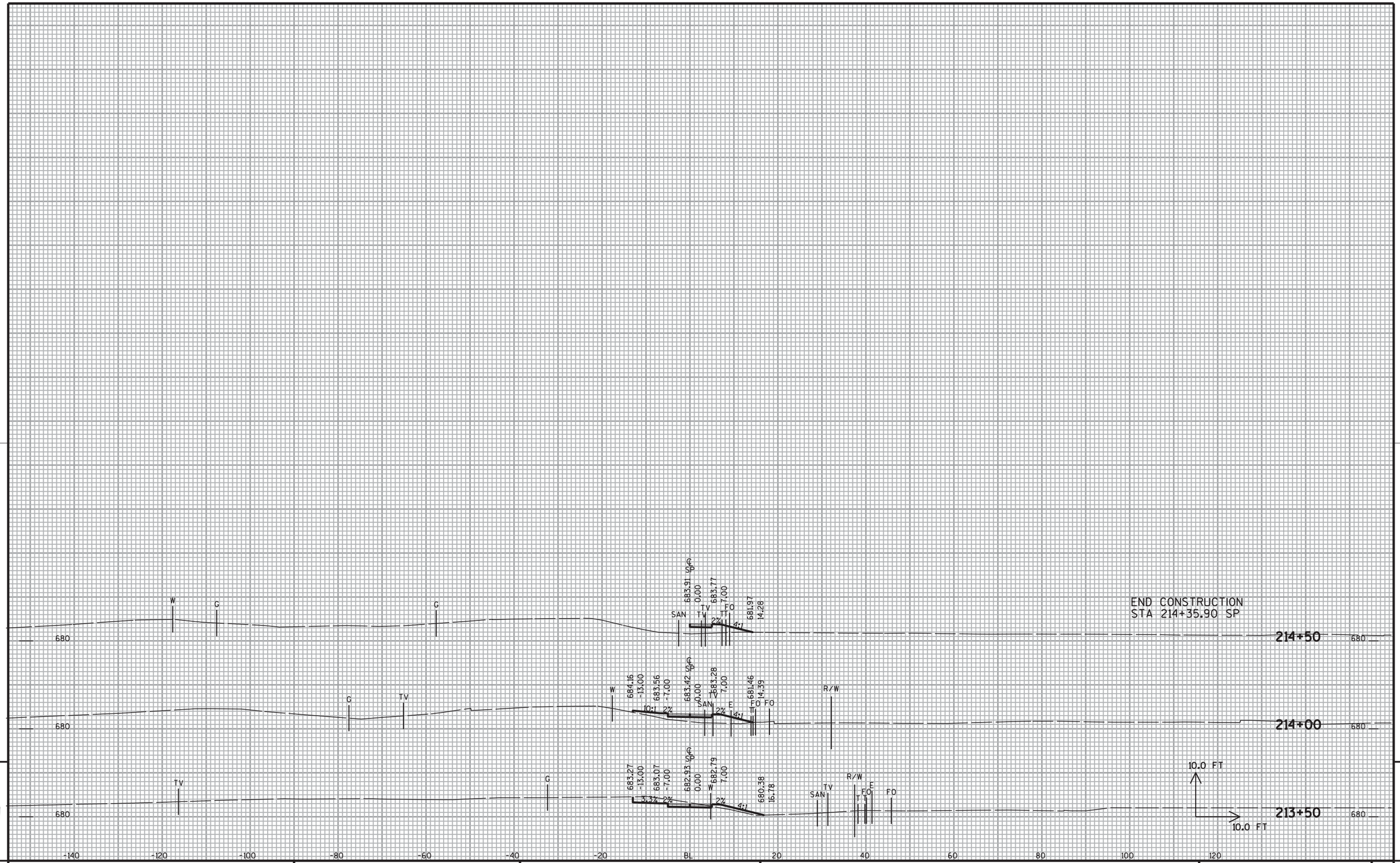
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - SOUTH SHARED PATH	SHEET NO: 434	E

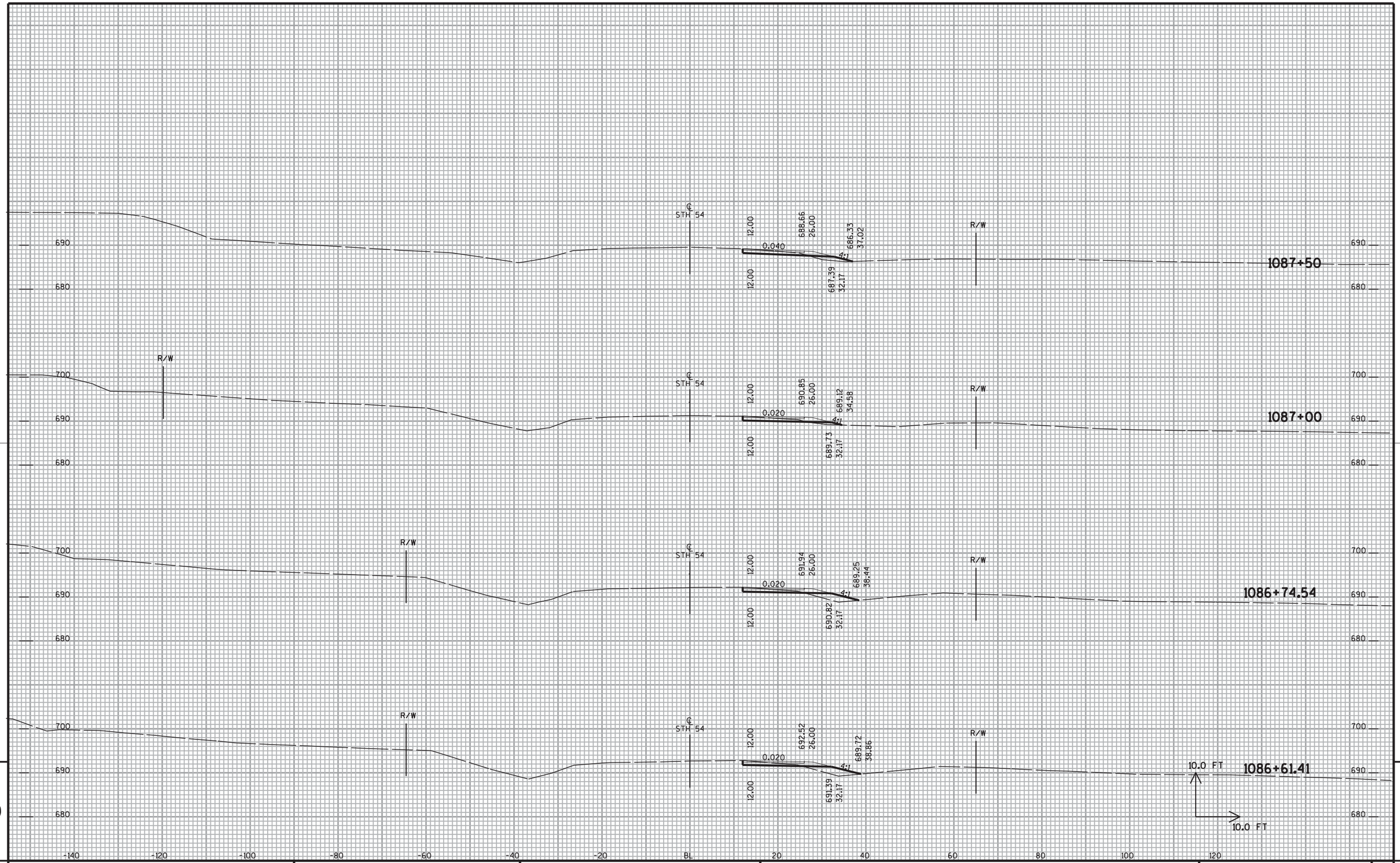
FILE NAME : X:±23046-70±08037±TECH±CADD±dwg±CAiCE TrailExports±X-SECS±DONE±X-SECS_SPED_DESIGN 1.dgn

PLOT DATE : 9/1/2011 PLOT BY : 1172las PLOT NAME : PLOT SCALE : 2.0000 '/ in.

WISDOT/CADDS SHEET 21



PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - SOUTH SHARED PATH	SHEET NO: 435	E



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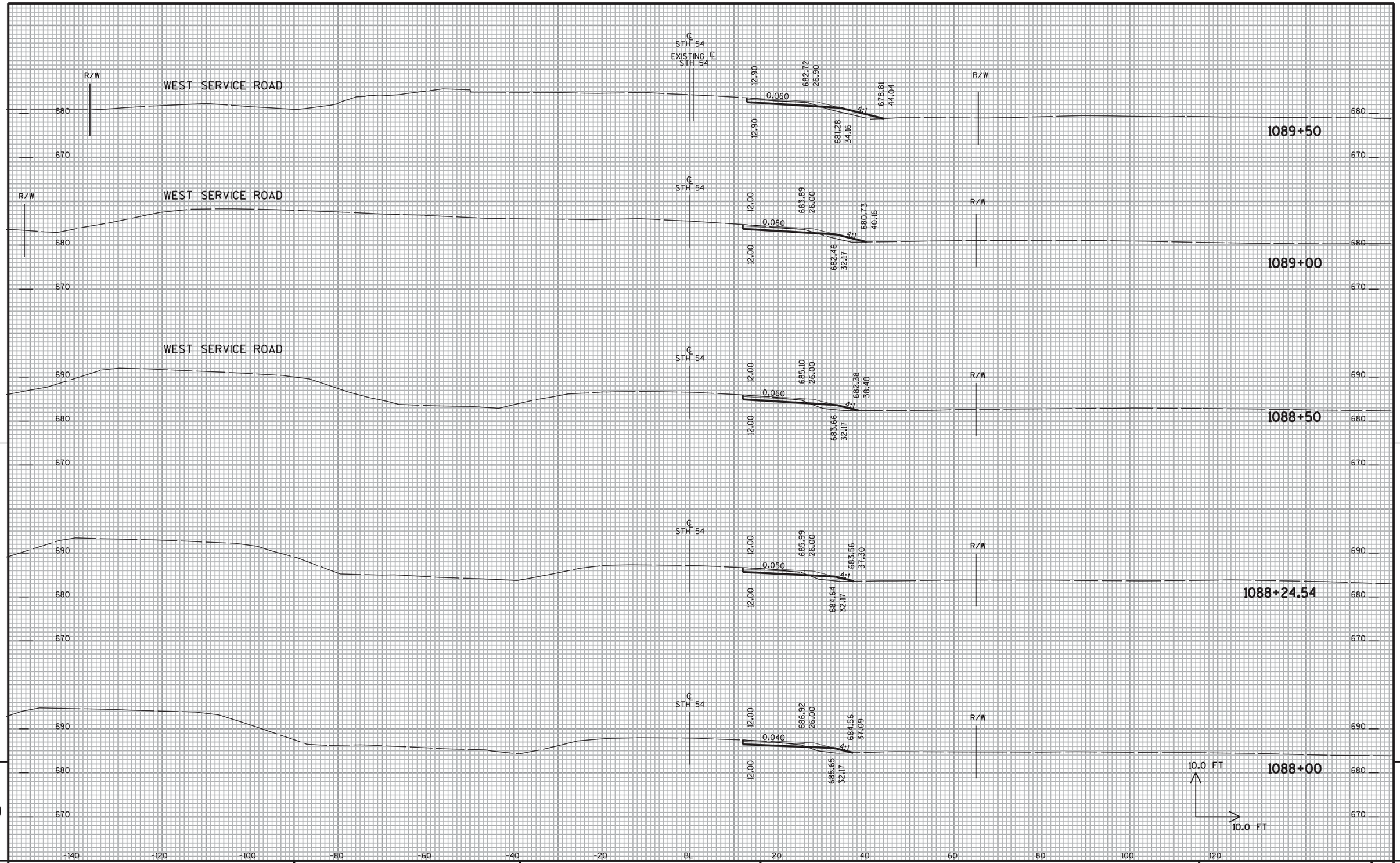
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 1 (WEST)	SHEET NO: 436	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 1 X-SECS (West).dgn PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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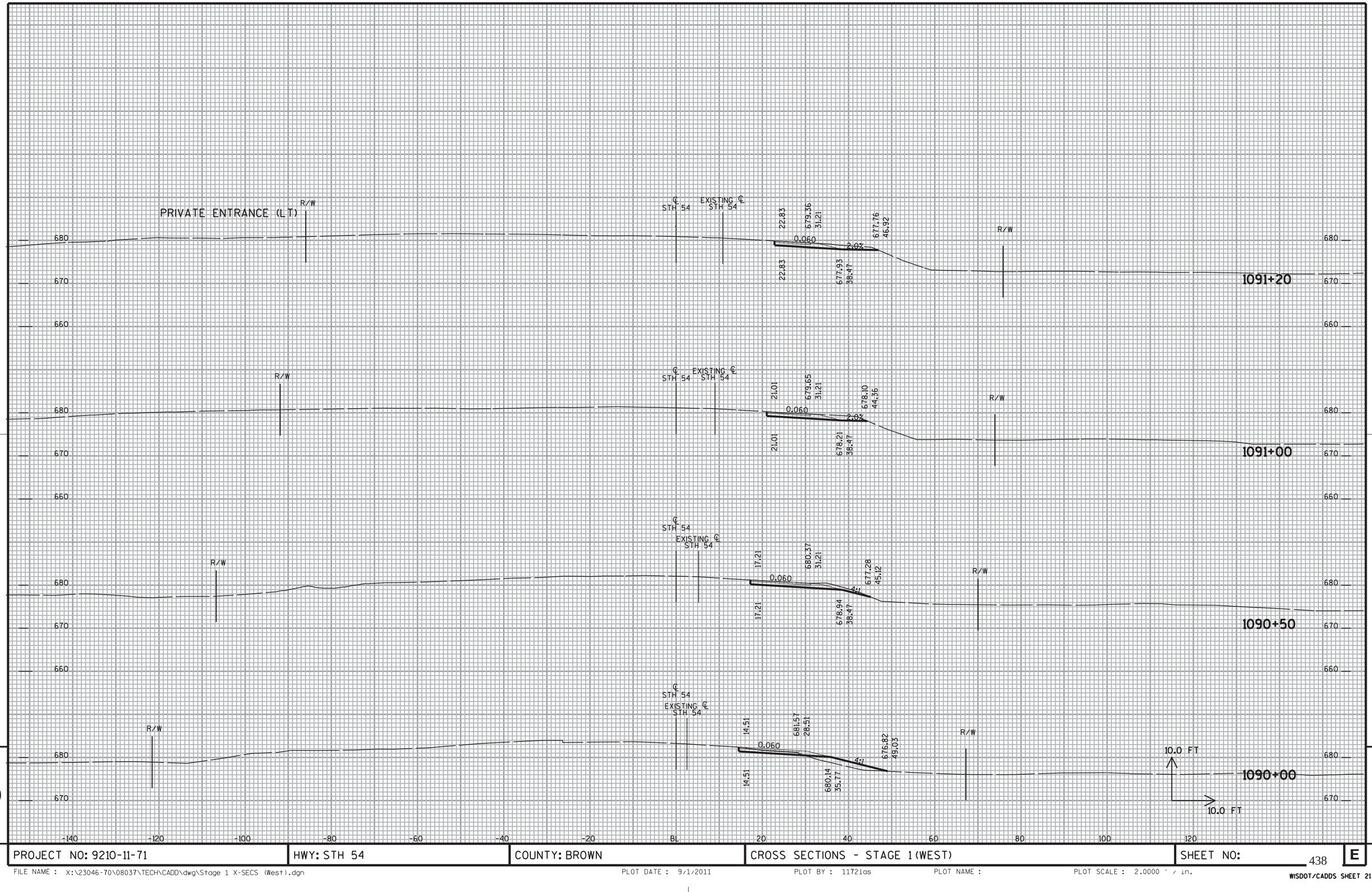
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 1 (WEST)	SHEET NO: 437	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 1 X-SECS (West).dgn PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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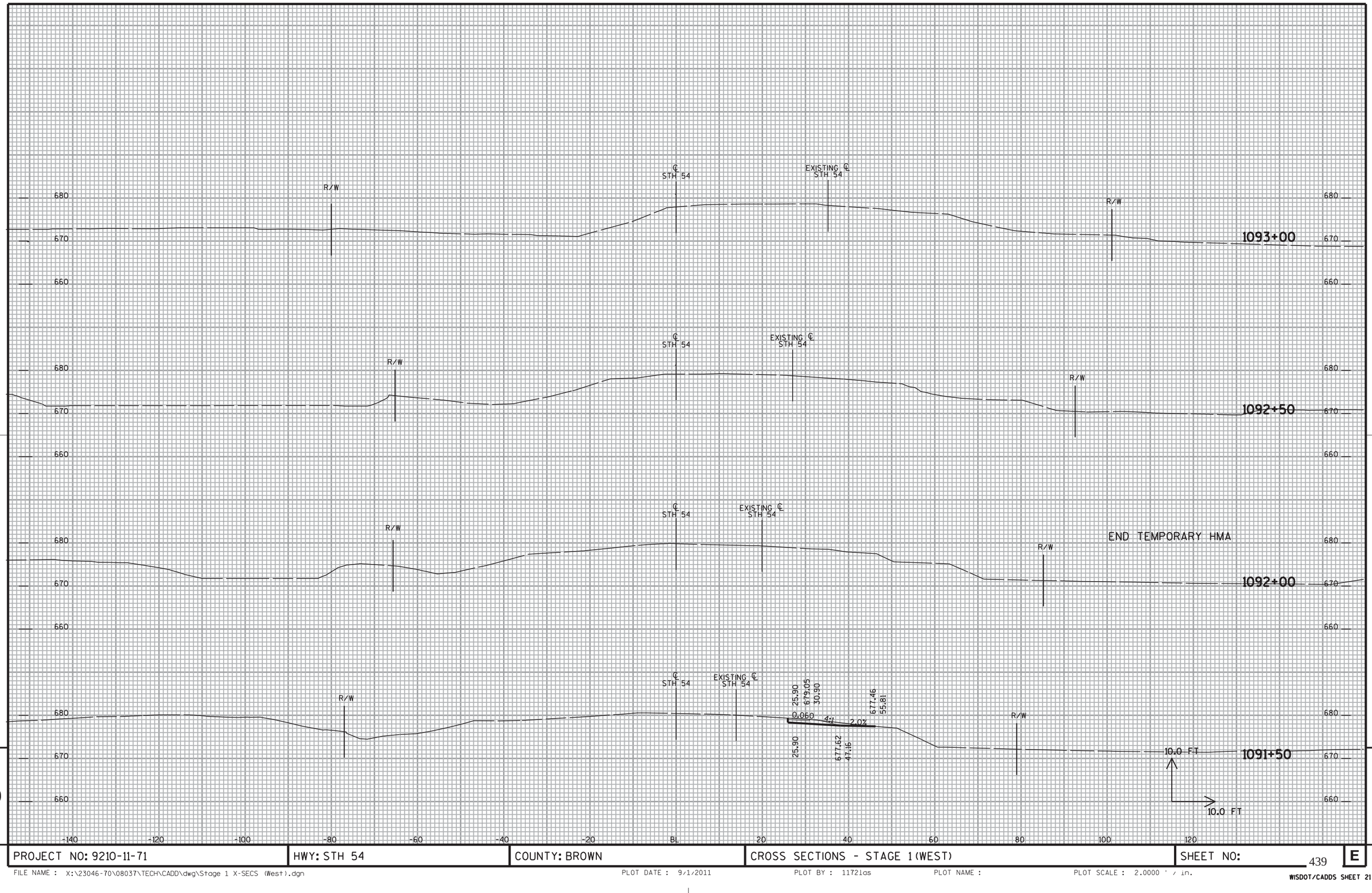
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 1 (WEST)	SHEET NO: 438	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 1 X-SECS (West).dgn PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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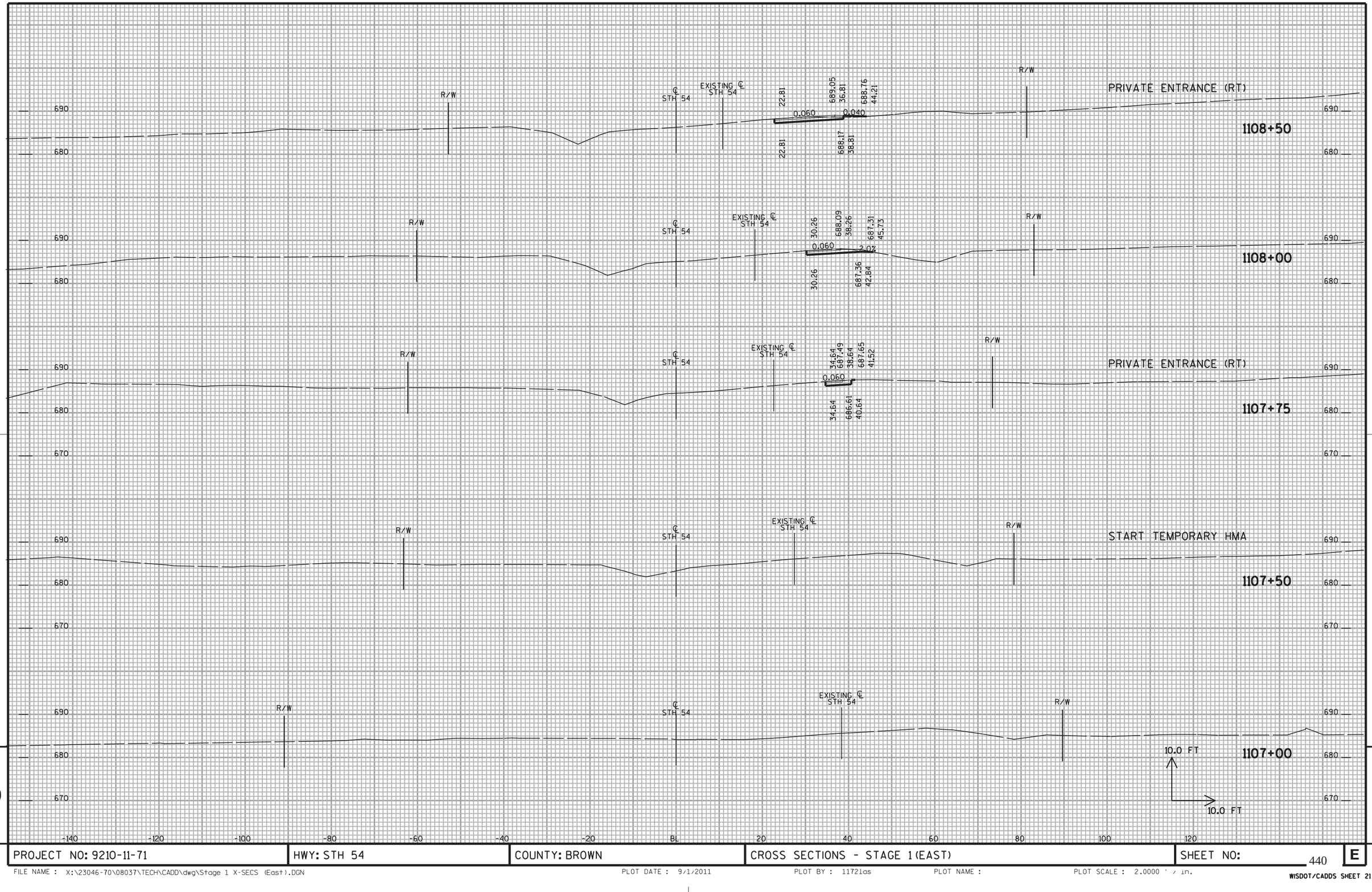
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 1 (WEST)	SHEET NO: 439	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 1 X-SECS (West).dgn PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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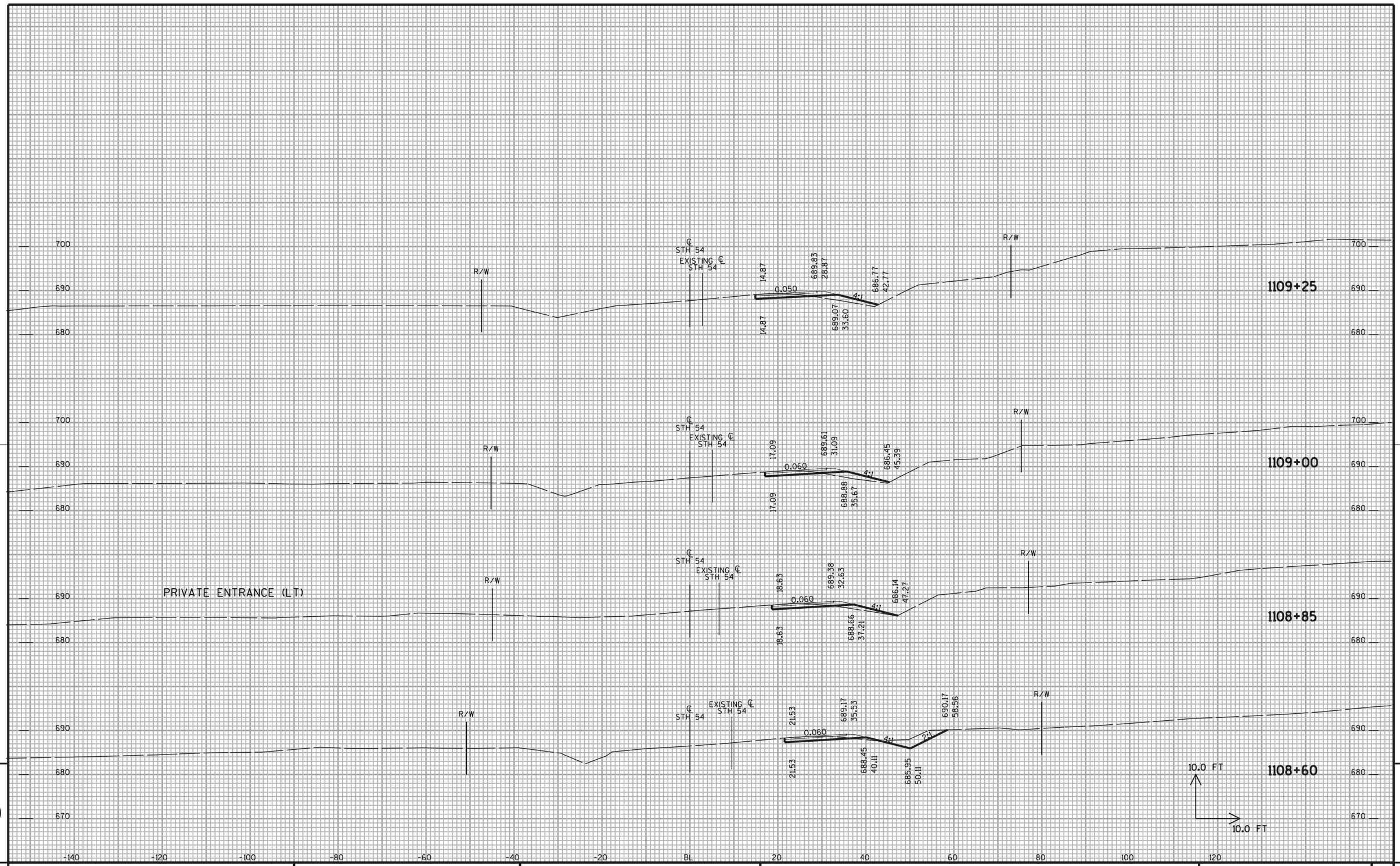
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 1 (EAST)	SHEET NO: 440	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 1 X-SECS (East).DGN PLOT DATE : 9/1/2011 PLOT BY : 11721gs PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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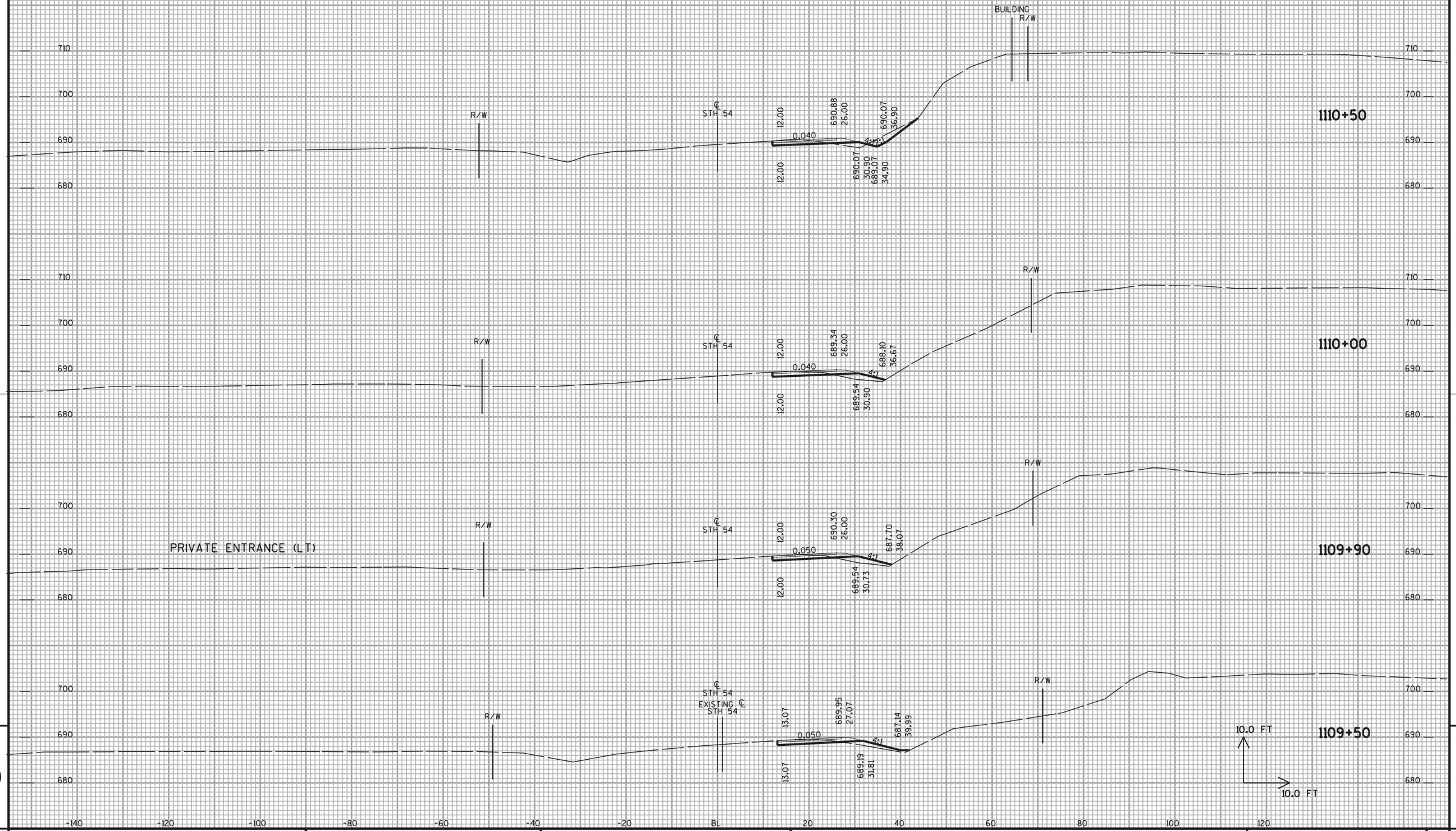
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 1 (EAST)	SHEET NO: 441	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 1 X-SECS (East).DGN PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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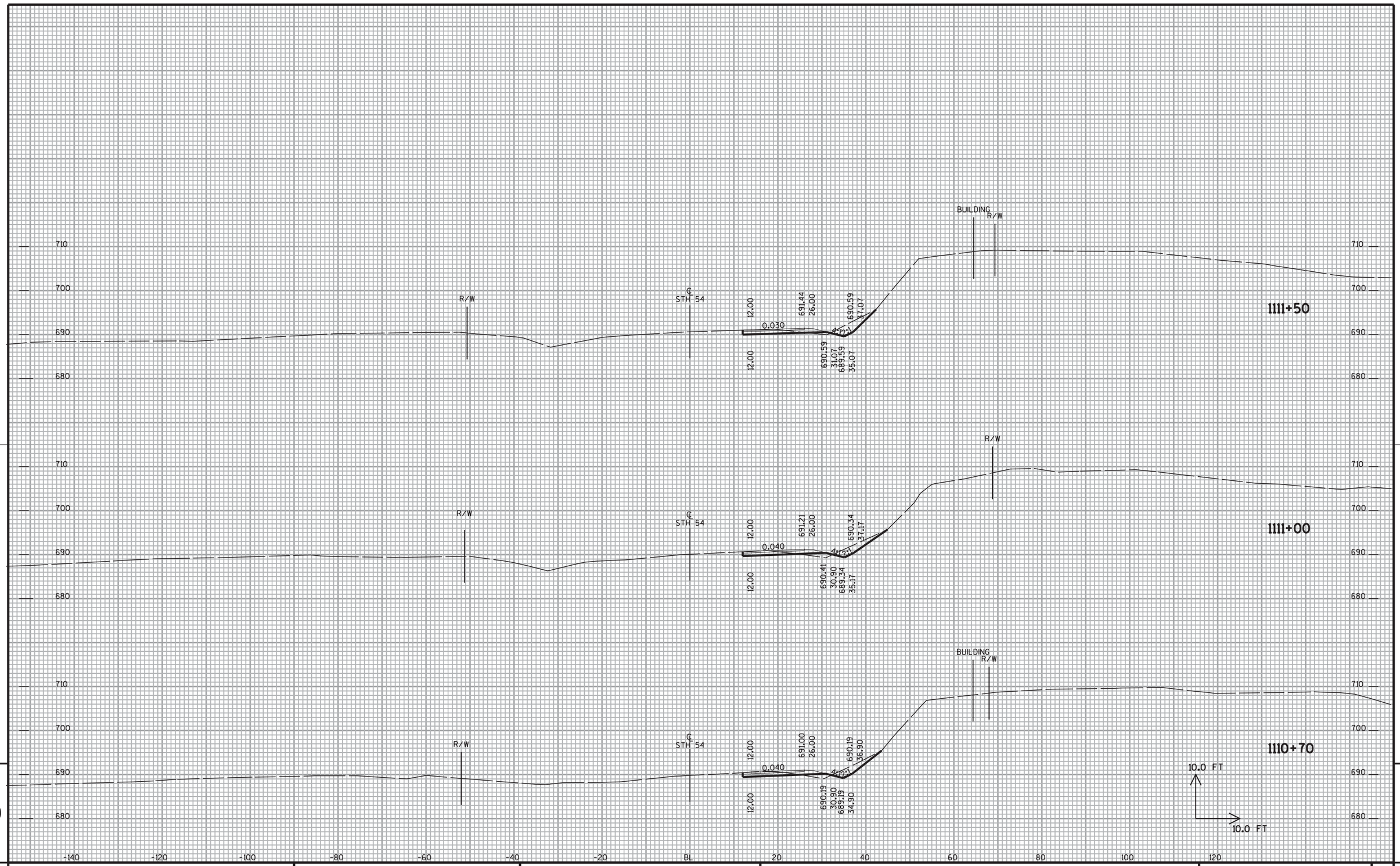
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 1 (EAST)	SHEET NO: 442	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 1 X-SECS (East).DGN PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 1 (EAST)	SHEET NO:	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 1 X-SECS (East).DGN PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

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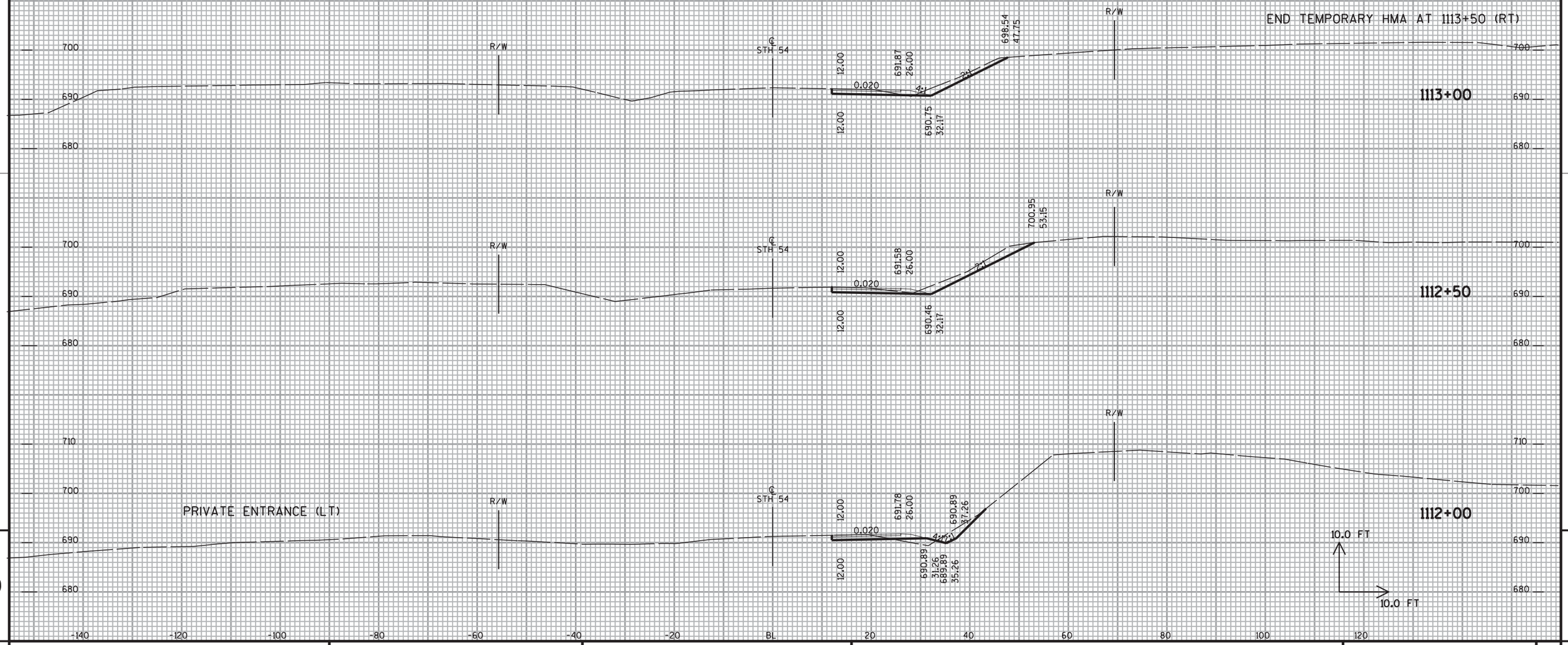

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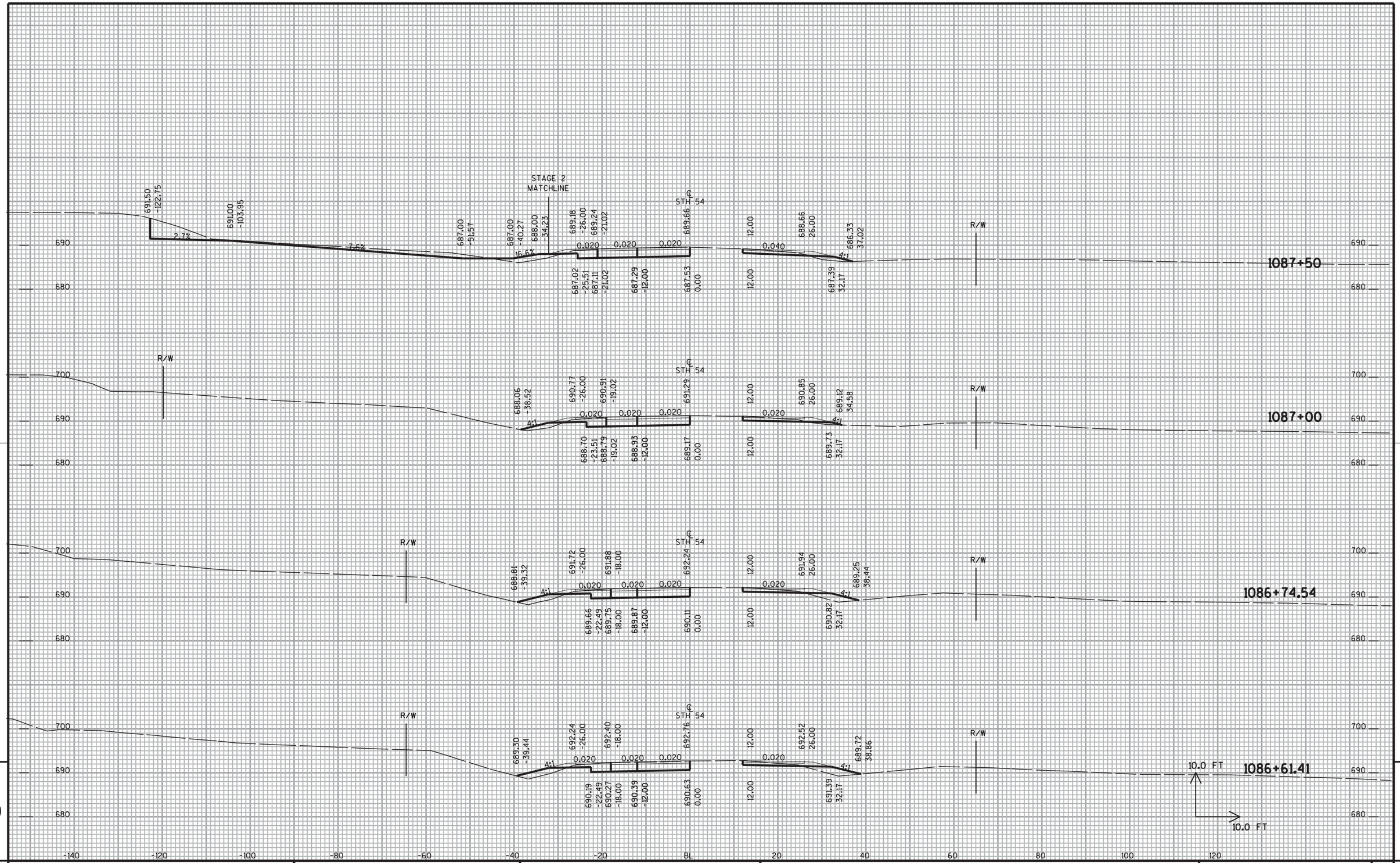
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 1 (EAST)	SHEET NO: 444	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 1 X-SECS (East).DGN PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 2 (WEST)	SHEET NO: 445	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 2 X-SECS (West) .dgn PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

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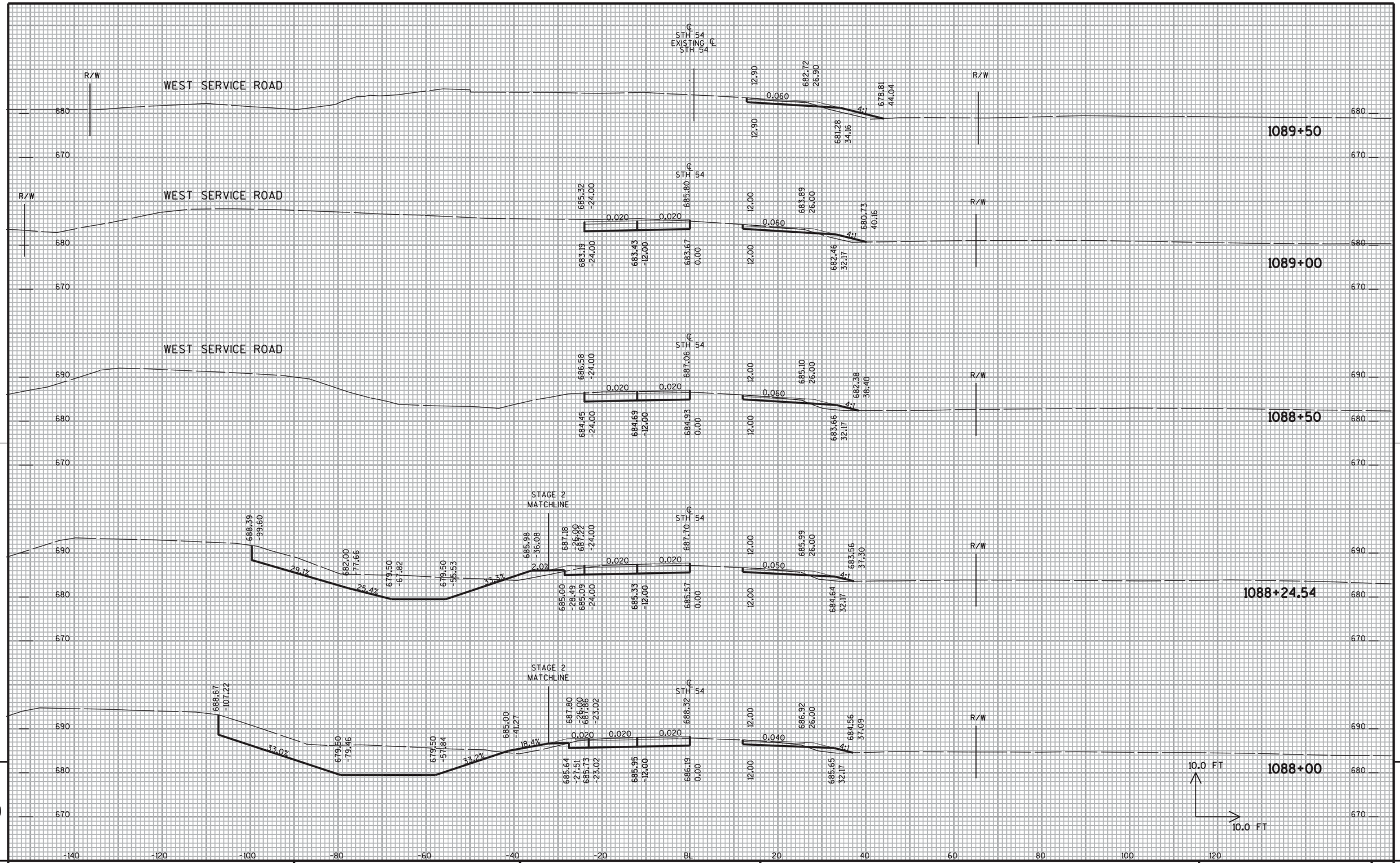

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PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 2 (WEST)	SHEET NO: 446	E

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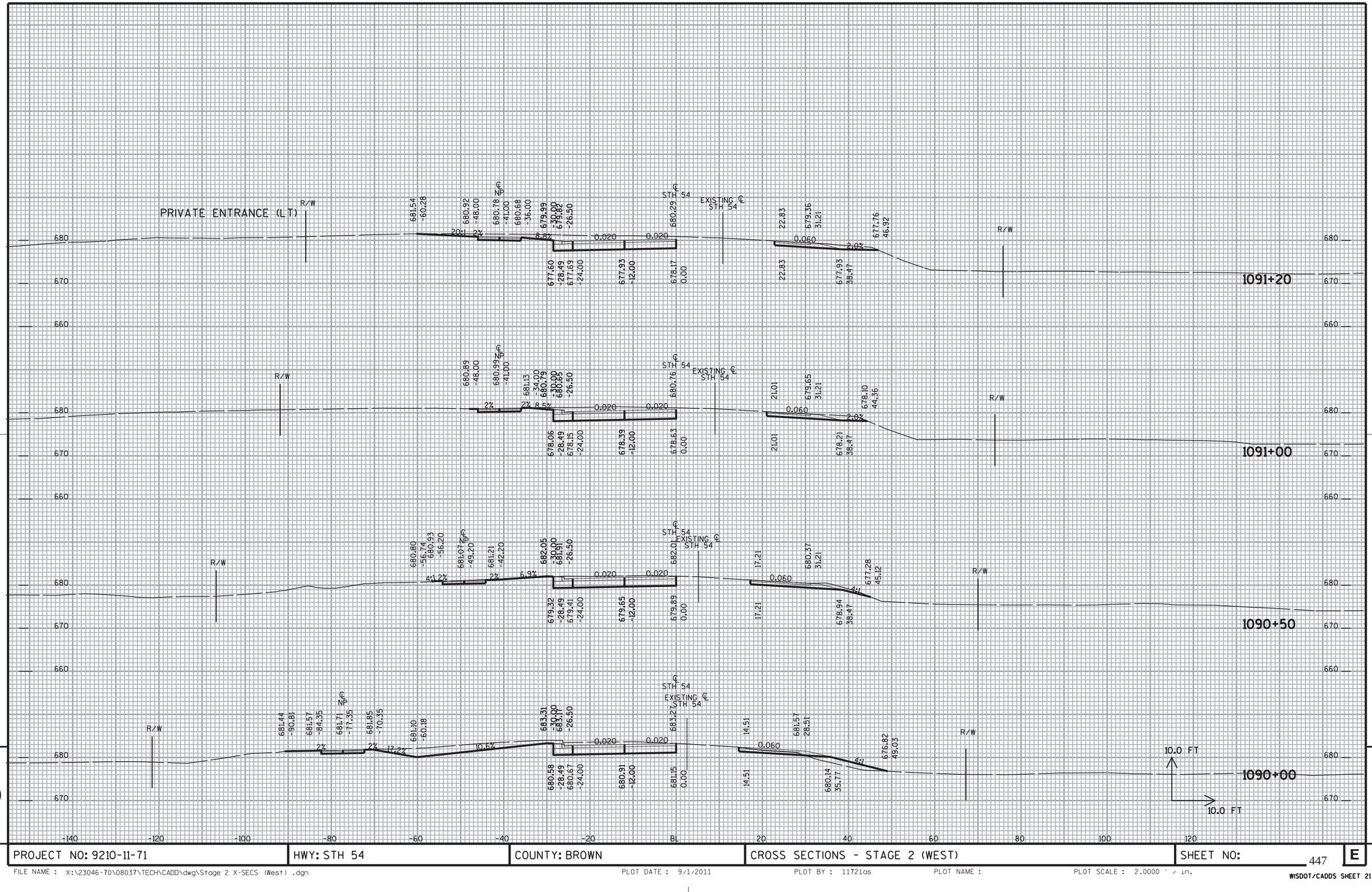

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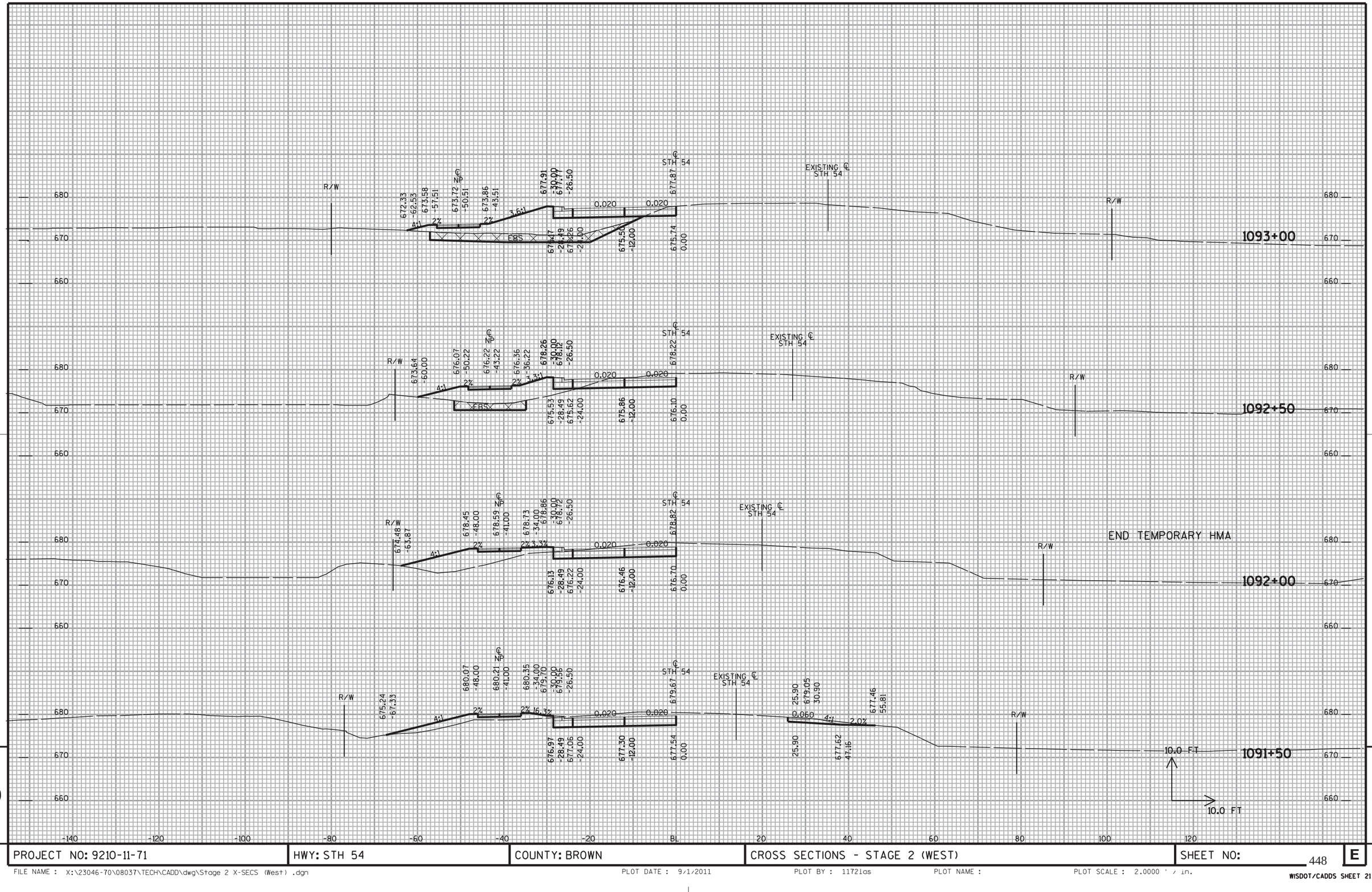
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 2 (WEST)	SHEET NO: 447	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 2 X-SECS (West) .dgn PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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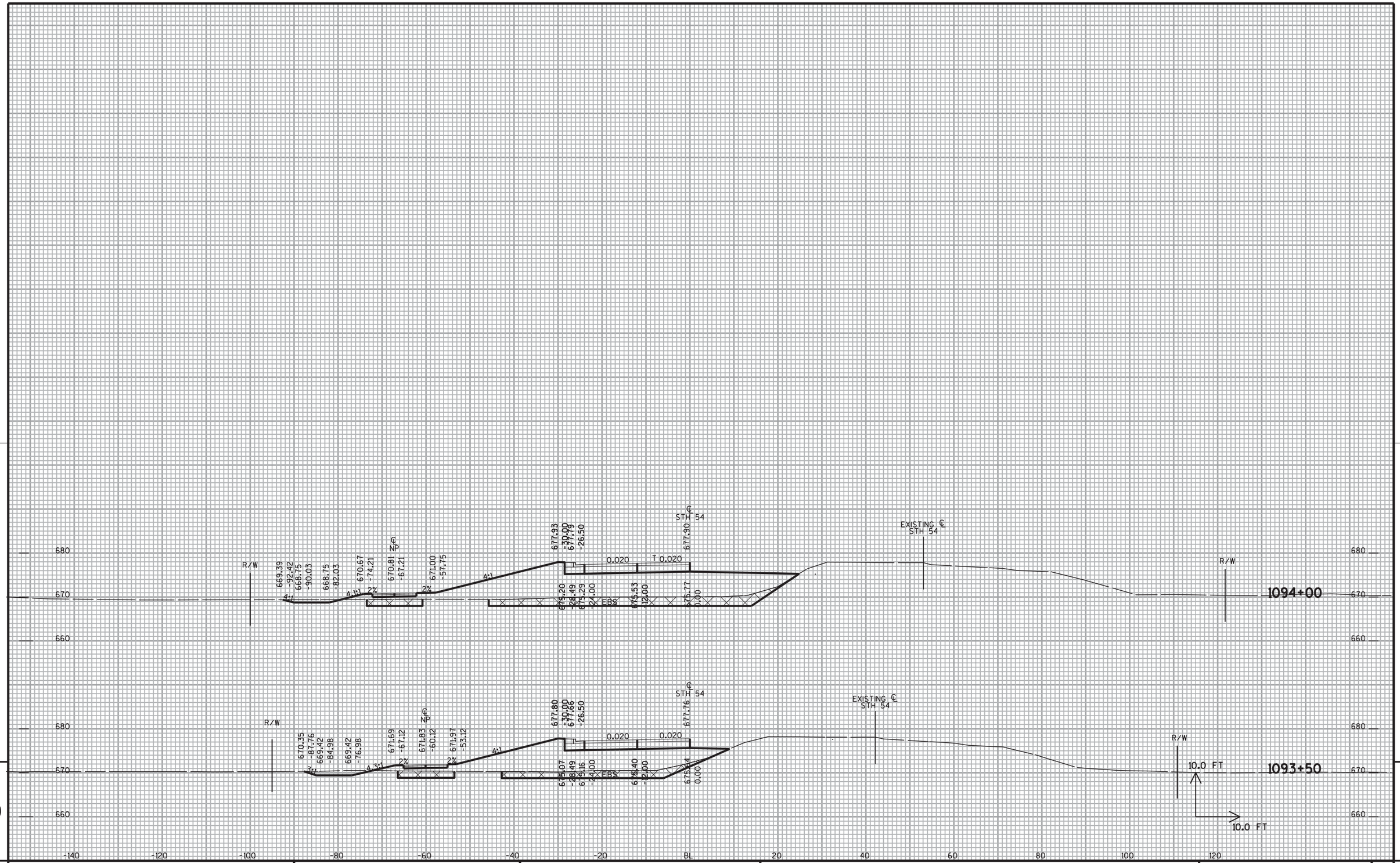
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 2 (WEST)	SHEET NO: 448	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 2 X-SECS (West) .dgn PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21

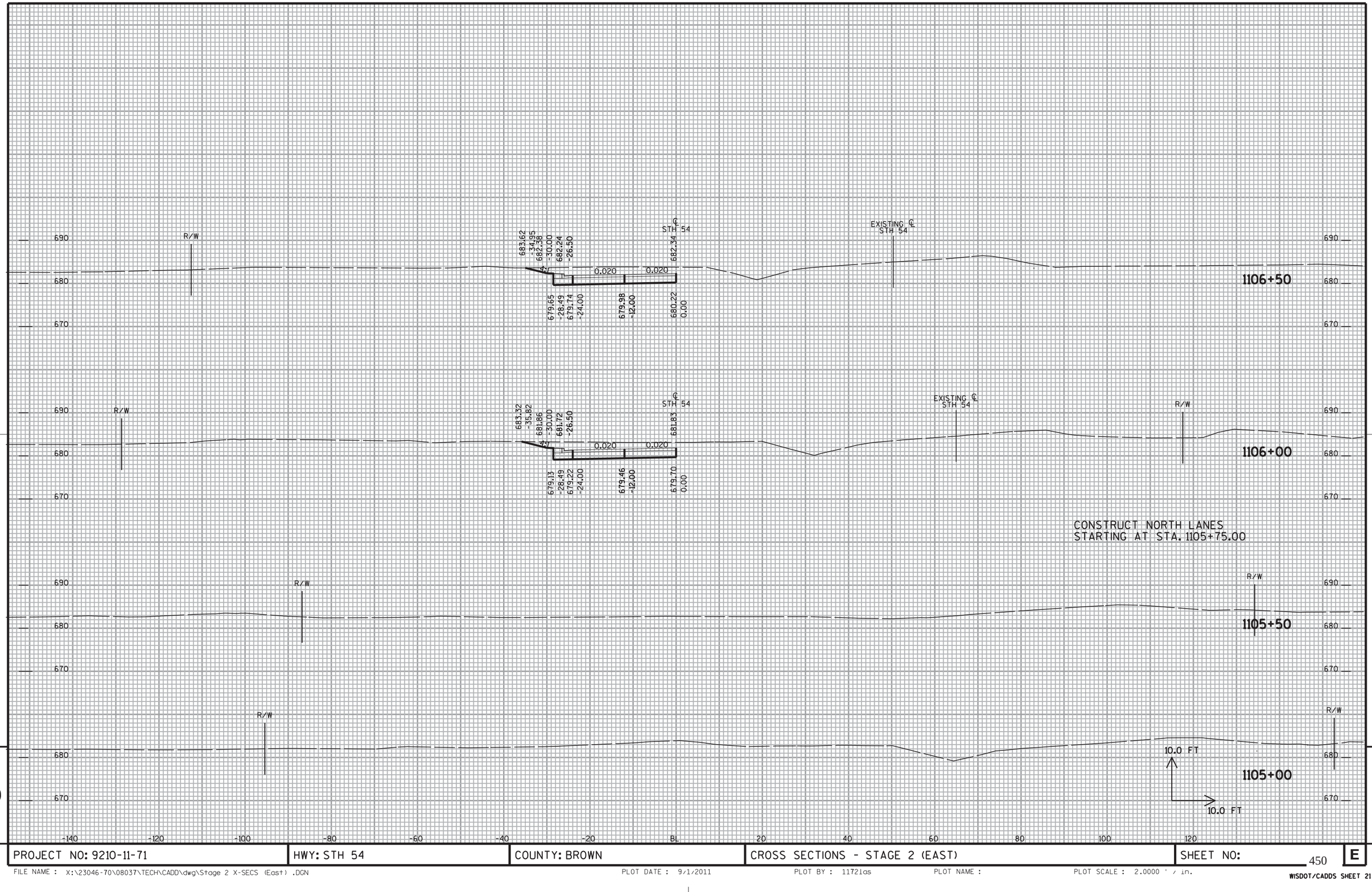


9 9

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 2 (WEST)	SHEET NO: 449	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 2 X-SECS (West) .dgn PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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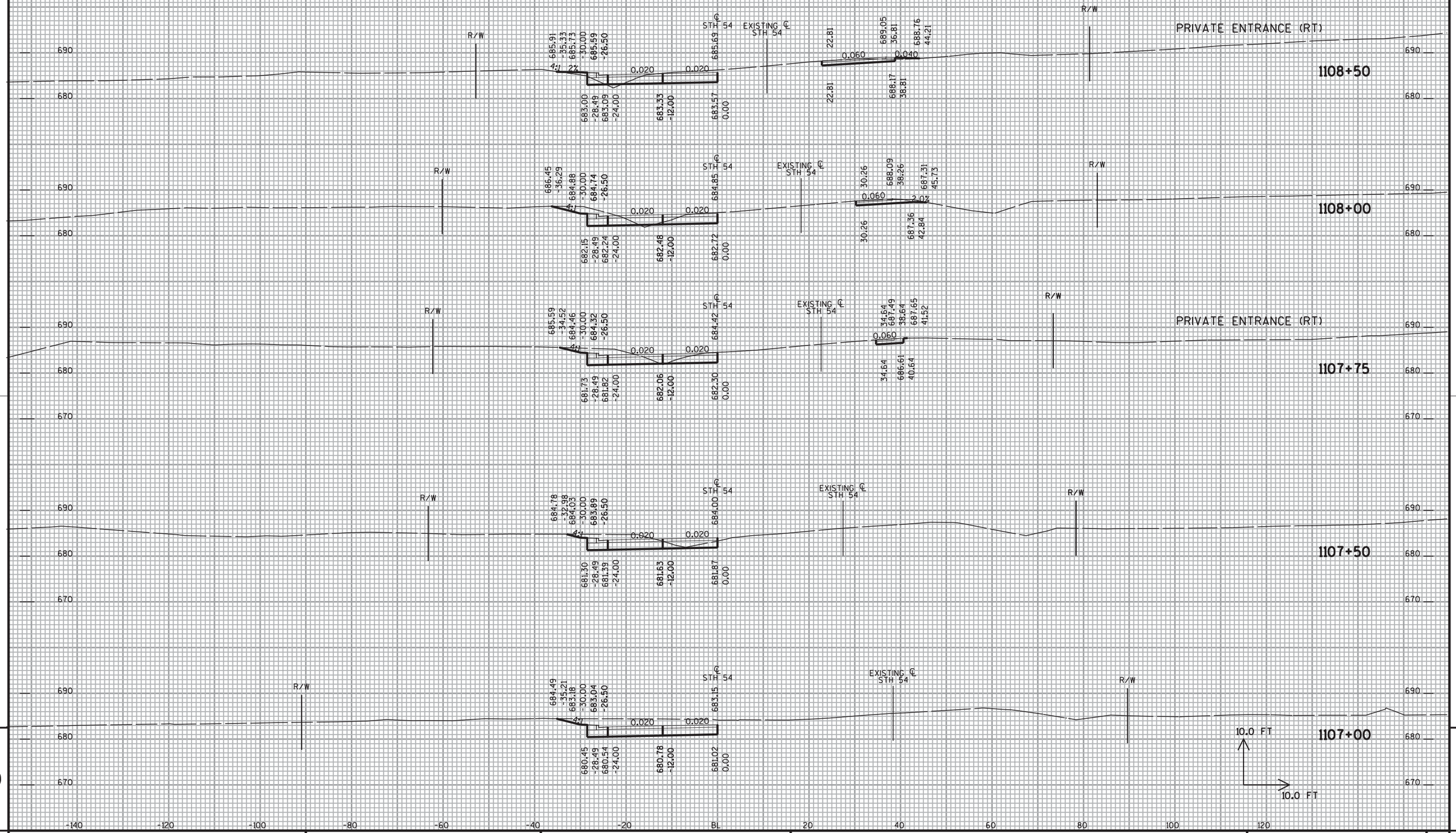
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 2 (EAST)	SHEET NO: 450	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 2 X-SECS (East) .DGN PLOT DATE : 9/1/2011 PLOT BY : 11721gs PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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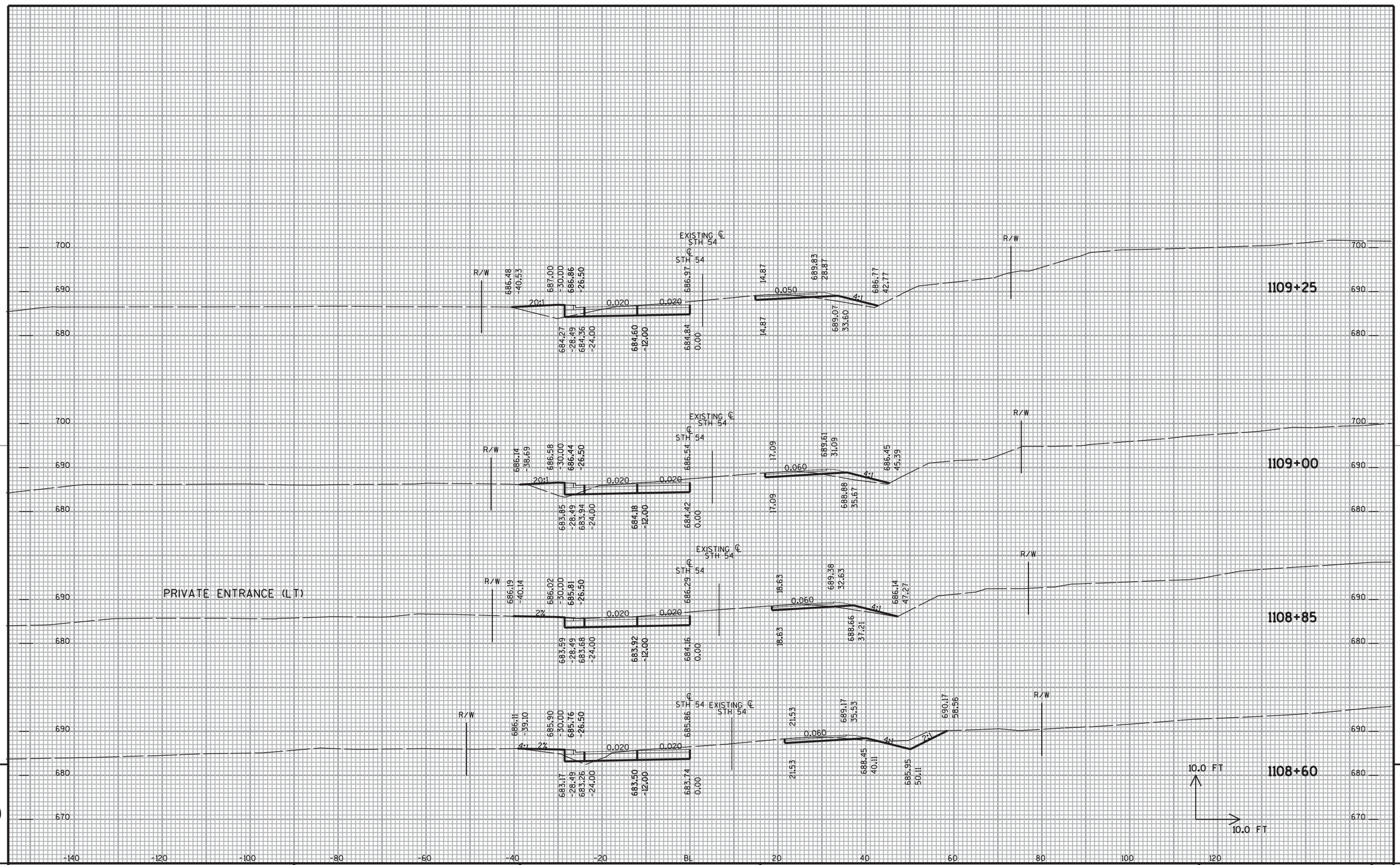
9

PROJECT NO: 9210-11-71 | HWY: STH 54 | COUNTY: BROWN | CROSS SECTIONS - STAGE 2 (EAST) | SHEET NO: 451 | E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 2 X-SECS (East) .DGN | PLOT DATE : 9/1/2011 | PLOT BY : 11721gs | PLOT NAME : | PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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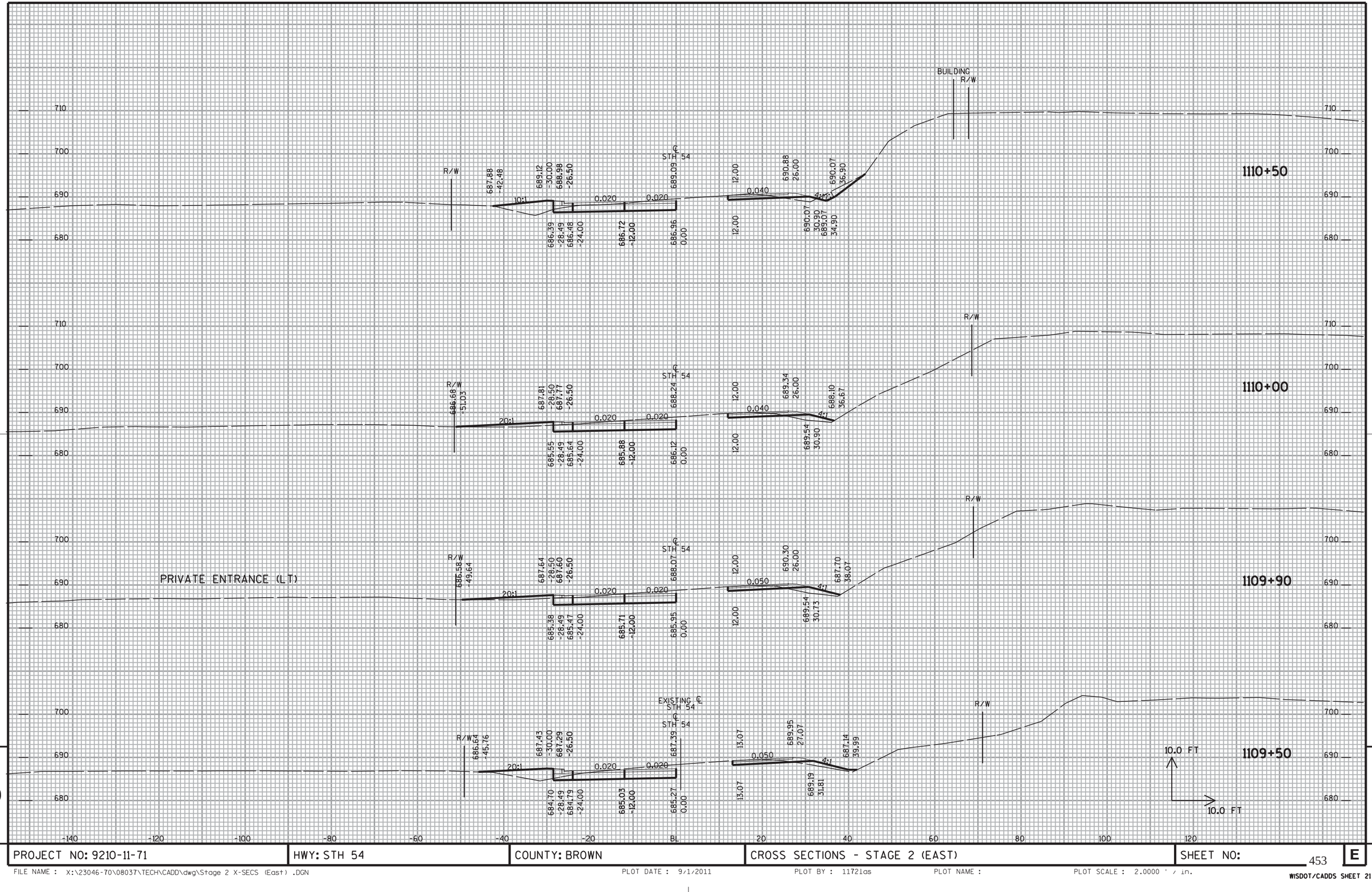
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 2 (EAST)	SHEET NO: 452	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 2 X-SECS (East) .DGN PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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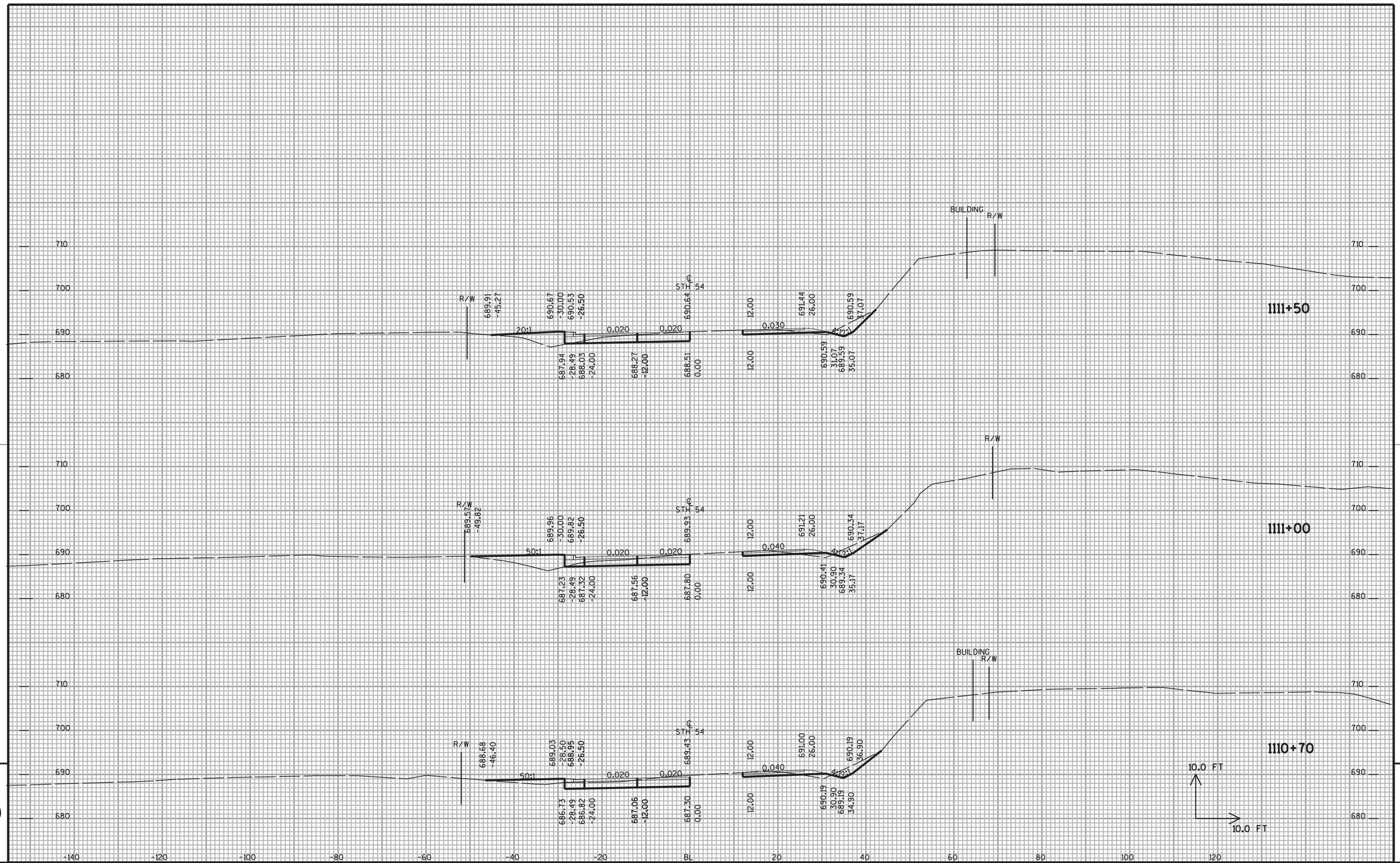
9

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 2 (EAST)	SHEET NO: 453	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 2 X-SECS (East) .DGN PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21



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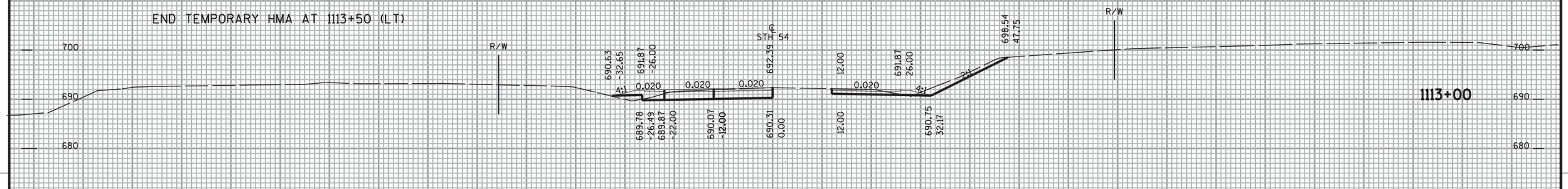
PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 2 (EAST)	SHEET NO: 454	E

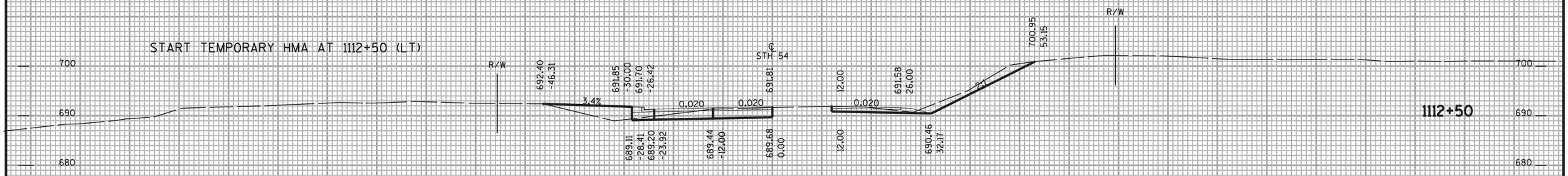
FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 2 X-SECS (East) .DGN PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21

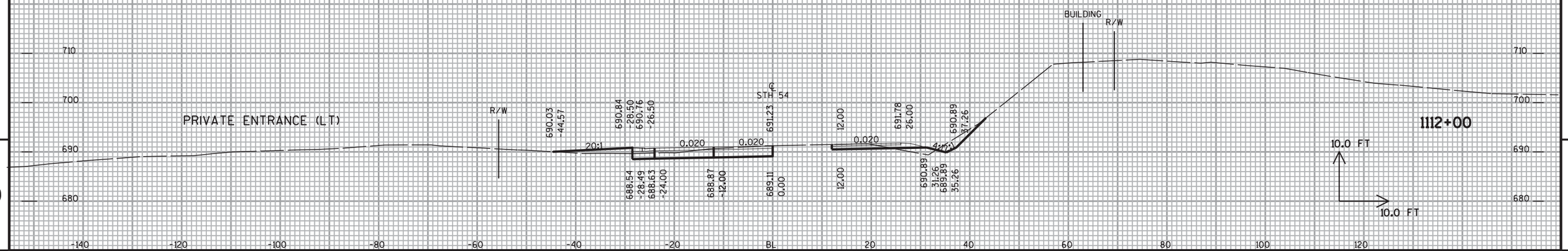
END TEMPORARY HMA AT 1113+50 (LT)



START TEMPORARY HMA AT 1112+50 (LT)



PRIVATE ENTRANCE (LT)



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9

PROJECT NO: 9210-11-71	HWY: STH 54	COUNTY: BROWN	CROSS SECTIONS - STAGE 2 (EAST)	SHEET NO: 455	E

FILE NAME : X:\23046-70\08037\TECH\CADD\dwg\Stage 2 X-SECS (East) .DGN PLOT DATE : 9/1/2011 PLOT BY : 11721as PLOT NAME : PLOT SCALE : 2.0000 ' / in.

WISDOT/CADDS SHEET 21

Wisconsin Department of Transportation

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