WKE

JUNE 2017

PROJECT ID: 1030-11-71

WITH:

COUNTY: RACINE

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 = 496



N

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

N-S FREEWAY - CTH K INTERCHANGE

CTH K IC CROSSROAD

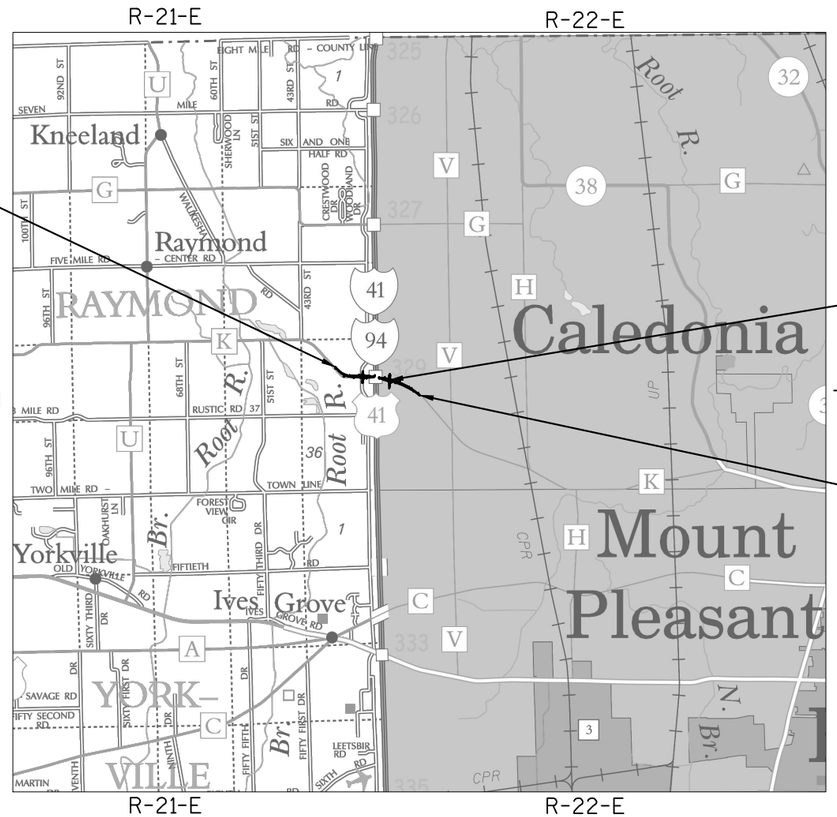
IH 94

RACINE COUNTY

STATE PROJECT NUMBER
1030-11-71

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1030-11-71		

BEGIN PROJECT 1030-11-71
STA 11+50.00
Y = 205,597.85
X = 591,171.37



EQUATION

STA 52+27.40 R/L CTH K BK =
Y = 204,617.37
X = 594,979.03

STA 52+18.84 R/L CTH K AH
Y = 204,654.37
X = 594,979.57

END PROJECT 1030-11-71
STA 76+00.00
Y = 203,557.37
X = 597,061.91

LAYOUT
SCALE 0 1 MILE

TOTAL NET LENGTH OF CENTERLINE = 1.225 MI.

DESIGN DESIGNATION		IH 94		CTH K
A.A.D.T.	2005	= 86,800	2014 =	9,000
A.A.D.T.	2035	= 118,800	2037 =	11,120
D.H.V.		= 8,500	=	1750
D.D.		= 44/56	=	48/52
T.		= 14.8%	=	16.9%
DESIGN SPEED		= 70	=	40-60 MPH
ESALS		= 36,383,200	=	2,030,200

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 (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- OVERHEAD UTILITY (OH)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, RACINE COUNTY, NAD83 (1997), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (1991).

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
- Surveyor: EMCS
- Designer: WISDOT
- Project Manager: EYAD GHANI
- Regional Examiner:
- Regional Supervisor: WAFA ELQAQ

APPROVED FOR THE DEPARTMENT
DATE: 12/01/16 (Signature)

E

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FAX: (414) 221-2336

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2

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

2

STANDARD ABBREVIATIONS

AEW	APRON ENDWALL
AGG	AGGREGATE
ASPH	ASPHALTIC
BAD	BASE AGGREGATE DENSE
BM	BENCHMARK
C&G	CURB AND GUTTER
CL OR $^{C}_{L}$	CENTER LINE OR CONSTRUCTION LINE
CPCM	CULVERT PIPE CORRUGATED METAL
CONC	CONCRETE
CP	CULVERT PIPE
CPCP	CULVERT PIPE CORRUGATED POLYETHYLENE
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
EB	EASTBOUND
FE	FIELD ENTRANCE
FL	FLOW LINE
HMA	HOT MIX ASPHALTIC
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LP	LOW POINT
LT	LEFT
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PGL	PROFILE GRADE LINE
PLE	PERMANENT LIMITED EASEMENT
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
RCAEW	APRON END WALL FOR CULVERT PIPE
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RRSP	RAILROAD SPIKE
RT	RIGHT
SALV	SALVAGED
SAPBC	SALVAGED ASPHALTIC PAVEMENT BASE COURSE
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPER ELEVATION
SF	SQUARE FOOT
SI	SLOPE INTERCEPT
SSPCP	STORM SEWER PIPE CORRUGATED POLYETHYLENE
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
VCL	VERTICAL CURVE LENGTH
VPC	POINT VERTICAL CURVE
VPT	POINT OF VERTICAL TANGENT
VPT	POINT OF VERTICAL TANGENT
WB	WESTBOUND

GENERAL NOTES

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

DO NOT REMOVE ANY TREES OR SHRUBS WITHOUT APPROVAL OF THE ENGINEER.

HMA PAVEMENT ITEMS ARE SHOWN IN THE PLANS IN INCHES OF THE TOTAL LAYER THICKNESS BUT THESE ITEMS ARE MEASURED FOR PAVEMENT BY THE TON. THE THICKNESS OR DEPTH OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE LOCATION OF LONGITUDINAL JOINTS IN HMA PAVEMENT SHALL BE APPROVED BY THE ENGINEER.

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. CURB AND GUTTER RADII ARE MEASURED TO THE FLANGE.

REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR RESPECTIVE BID ITEMS.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED BY DIRECTION OF ENGINEER WITH THE FOLLOWING FINISHING ITEMS: TOPSOIL AND FERTILIZER. QUANTITES FOR FINISHING ITEMS INCLUDE RESTORATION EXTENDING 3 FEET BEYOND THE SLOPE INTERCEPT SHOWN ON PLANS. DISTURBED AREAS SHALL HAVE FINISHING ITEMS APPLIED WITHIN 15 WORKING DAYS AFTER GRADING WORK IS COMPLETED.

FERTILIZER SHALL NOT BE USED WITHIN 100' OF NAVIGABLE WATERWAYS OR WETLANDS.

A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING HMA PAVEMENT.

SAWCUT ASPHALTIC AND CONCRETE DRIVEWAYS AND/OR PARKING LOTS AT THE MATCHLINE AS SHOWN ON THE PAVING DETAILS OR AS DIRECTED BY THE ENGINEER.

SQUEEGEE ALL SAWCUT SLURRY TO THE AGGREGATE SHOULDER AND/OR REMOVE INCIDENTAL TO THE SAWCUTTING.

INLET PROTECTION SHALL BE PLACED AT ALL INLET LOCATIONS ACCEPTING STORM WATER FROM THE PROJECT AREA OR AS DIRECTED BY THE ENGINEER.

ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED AS NEEDED AND/OR DIRECTED BY THE ENGINEER. NO WORKING LIGHTS SHALL BE VISIBLE ON A LAID DOWN SIGN.

EXISTING SIGNS SHALL BE PROTECTED AND REINSTALLED BY THE CONTRACTOR.

RESTORE EXISTING DRIVEWAYS AND FIELD ENTRANCES IN KIND AND AT THE LOCATION DETERMINED BY THE ENGINEER.

VERIFY EXISTING PAVEMENT ELEVATIONS AT ALL TIE-INS TO EXISTING PAVEMENT PRIOR TO CONSTRUCTION. IF A DISCREPANCE IS FOUND BETWEEN PROPOSED PLAN ELEVATIONS AND THE EXISTING PAVEMENT ELEVATIONS, CONTRACTOR IS TO NOTIFY THE ENGINEER.

CONTRACTOR MUST CONTACT THE PROJECT ENGINEER AND SEWRPC AT LEAST TWO WEEKS PRIOR TO WORK NEAR ANY PUBLIC SURVEY MONUMENT.

RADIUS INFORMATION IS GIVEN TO THE FLANGE OF CURB AND GUTTER.

ADJUSTMENT RINGS MAY BE USED TO A COMBINED MINIMUM THICKNESS OF 6-INCHES.

A

CONSTRUCT HMA PAVEMENTS AS FOLLOWS:

PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS	NOMINAL MAXIMUM SIZE GRADATION
4 HT 58-28 S	8"	2" UPPER LAYER	12.5 MM
3 HT 58-28 S		3" UPPER/LOWER LAYER	19.0 MM
3 HT 58-28 S		3" LOWER LAYER	19.0 MM
ASPHALTIC SURFACE TEMPORARY	5"	5" LAYER	19.0 MM

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLANS
PLAN DETAILS
PAVING GRADES
CONTOUR MAP
EROSION CONTROL
STORM SEWER
UTILITY ADJUSTMENTS
PERMANENT SIGNING
LIGHTING PLAN
TRAFFIC SIGNAL PLAN
PAVEMENT MARKING
STAGED CONSTRUCTION/TRAFFIC CONTROL
DETOUR PLAN
ALIGNMENT LAYOUT

2

N

BEGIN PROJECT 1030-11-71
11+50.00

END CONSTRUCTION
4056+91.75

END CONSTRUCTION
5055+60.70

BEGIN CONSTRUCTION
2055+00.00

BEGIN CONSTRUCTION
3050+60.39

END PROJECT 1030-11-71
76+00.00

MICHELS GARAGE
DRIVEWAYS

WEST FRONTAGE RD

EAST FRONTAGE RD

FUHRMAN DR

MICHEL CT

ADAMS RD

CAROL RD

INTERSTATE HIGHWAY 94 AND 41

CTH K WB

CTH K EB

CTH K

10EB 15EB 20WB 20EB 25WB 25EB 30WB 30EB 35WB 35EB 40WB 40EB 45WB 45EB 50WB 50EB 55WB 55EB 60WB 60EB 65WB 65EB 70WB 70EB 75WB

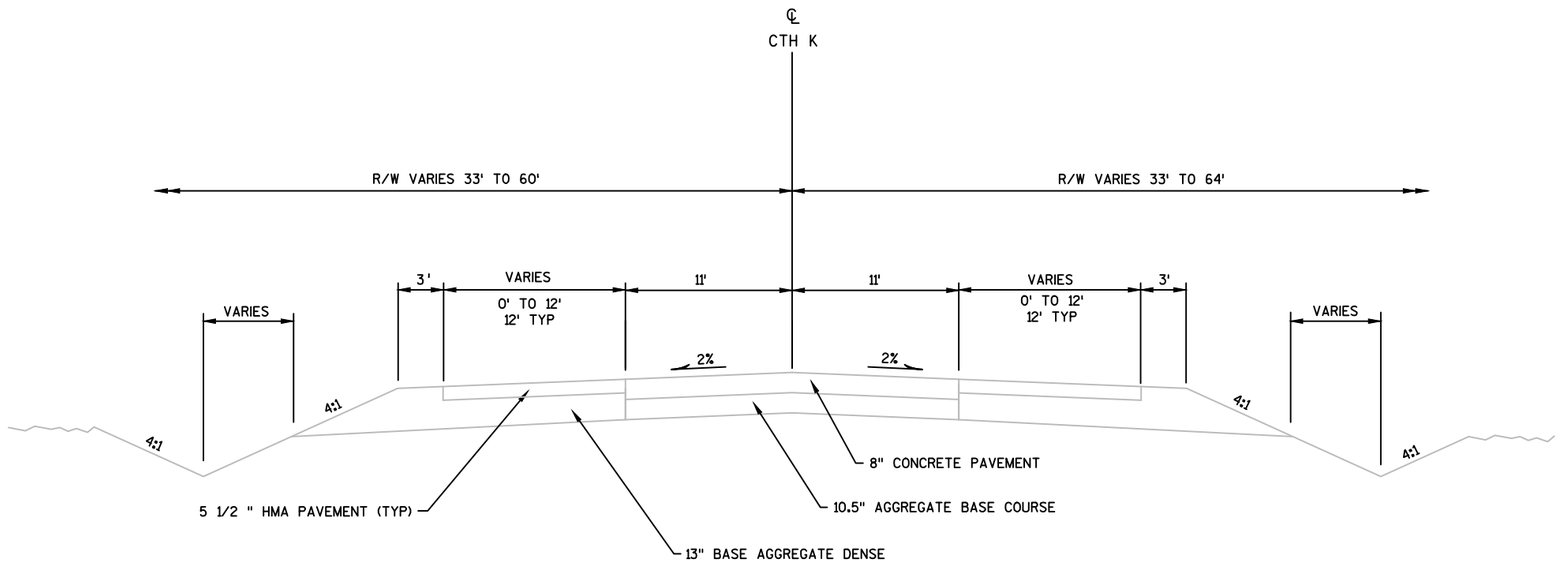
4070 4065 4060 4055 5070 5065 5060 5055 3055 3050 3045 3040 2055 2050 2045 2040

PROJECT NO:1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PROJECT OVERVIEW	SHEET 4	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\020201_PO.DWG
LAYOUT NAME - 020101

PLOT DATE : 11/30/2016 8:20 AM PLOT BY : EASON, ADRIANNA M PLOT NAME : PLOT SCALE : 1 IN:400 FT

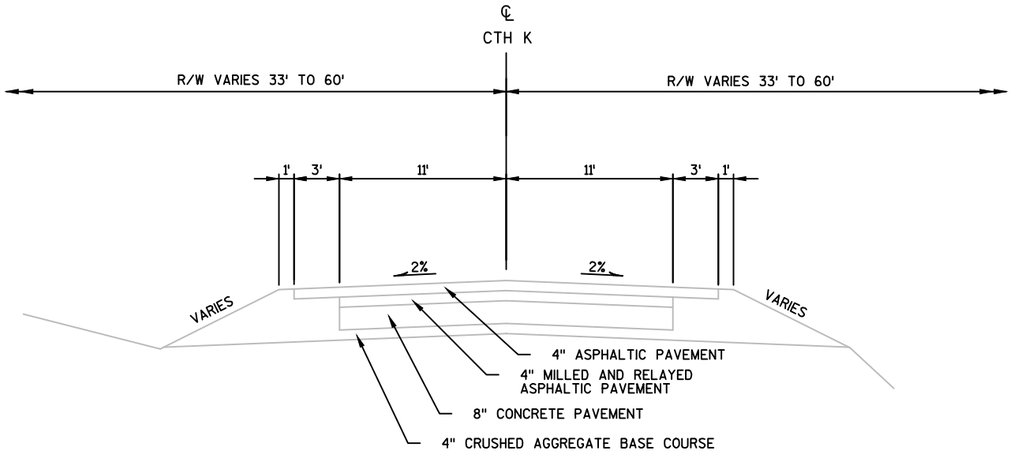
WISDOT/CADDS SHEET 42



TYPICAL EXISTING SECTION

CTH K

STA 27+36 TO STA 38+00

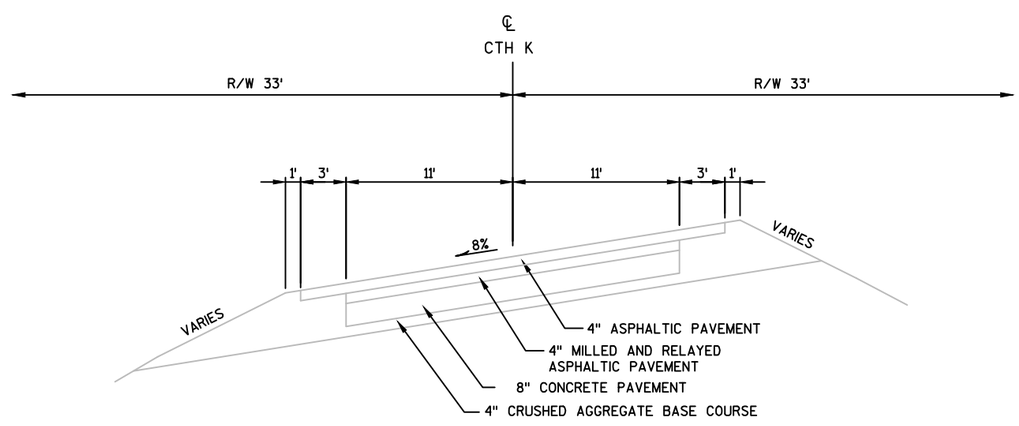


TYPICAL EXISTING SECTION

CTH K

STA 11+50 TO STA 18+22

STA 22+00 TO STA 27+36

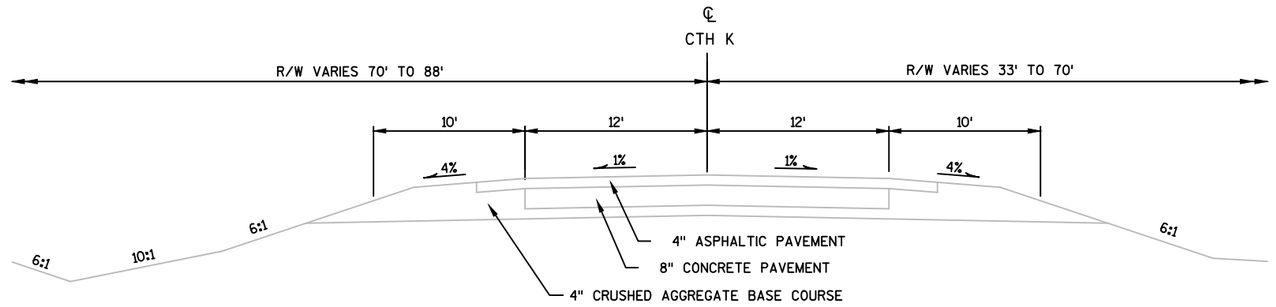


TYPICAL EXISTING SECTION

CTH K

STA 18+22 TO STA 22+00

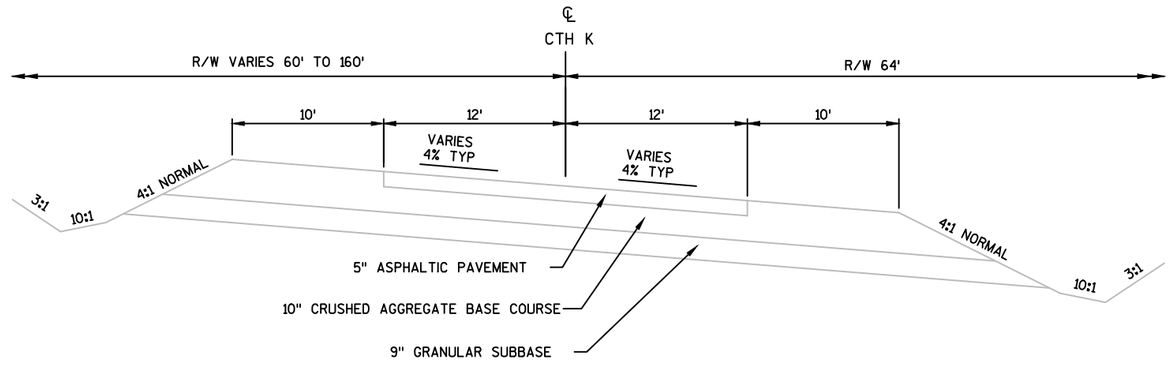
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL EXISTING SECTIONS	SHEET 5	E



TYPICAL EXISTING SECTION

CTH K

STA 45+75.00 TO STA 47+75.00

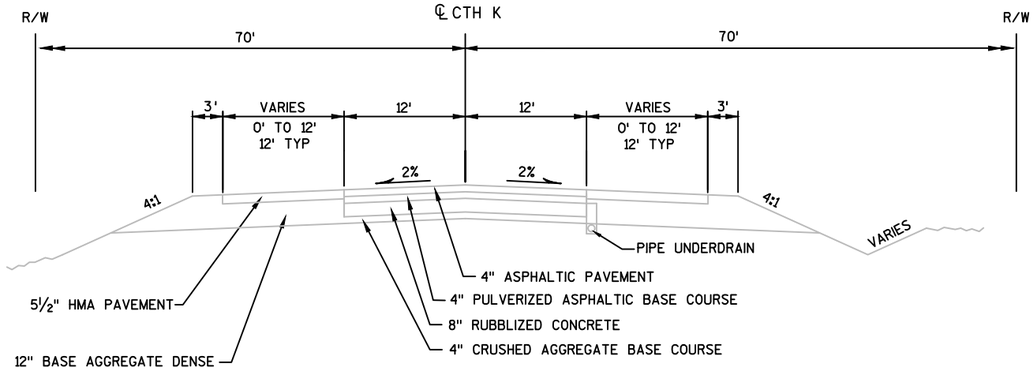


TYPICAL EXISTING SECTION

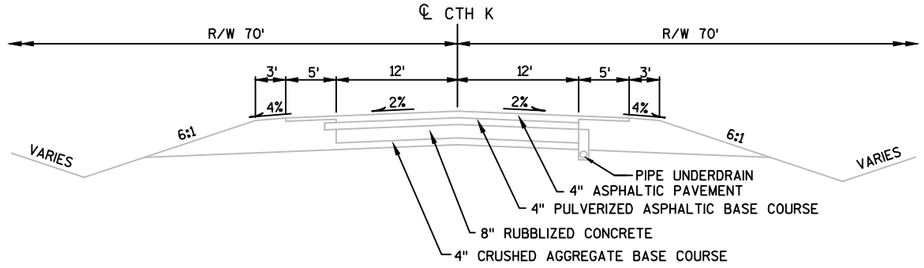
CTH K

STA 38+00.00 TO STA 45+75.00

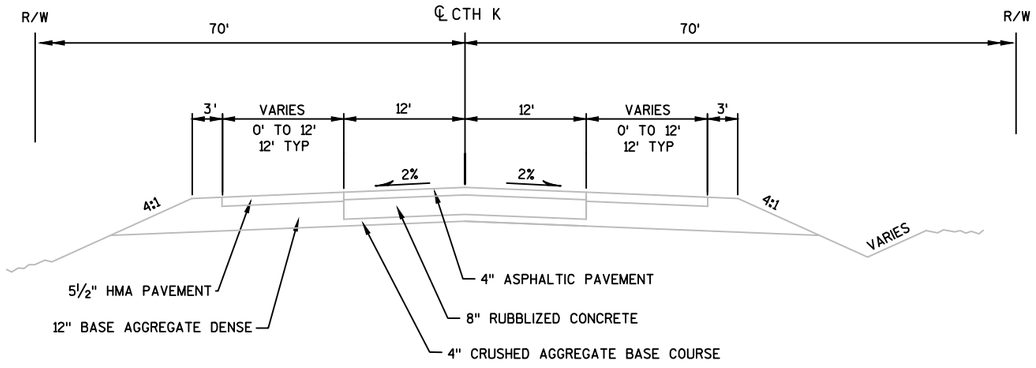
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL EXISTING SECTIONS	SHEET 6	E



TYPICAL EXISTING SECTION
CTH K
STA 52+00 TO STA 57+39

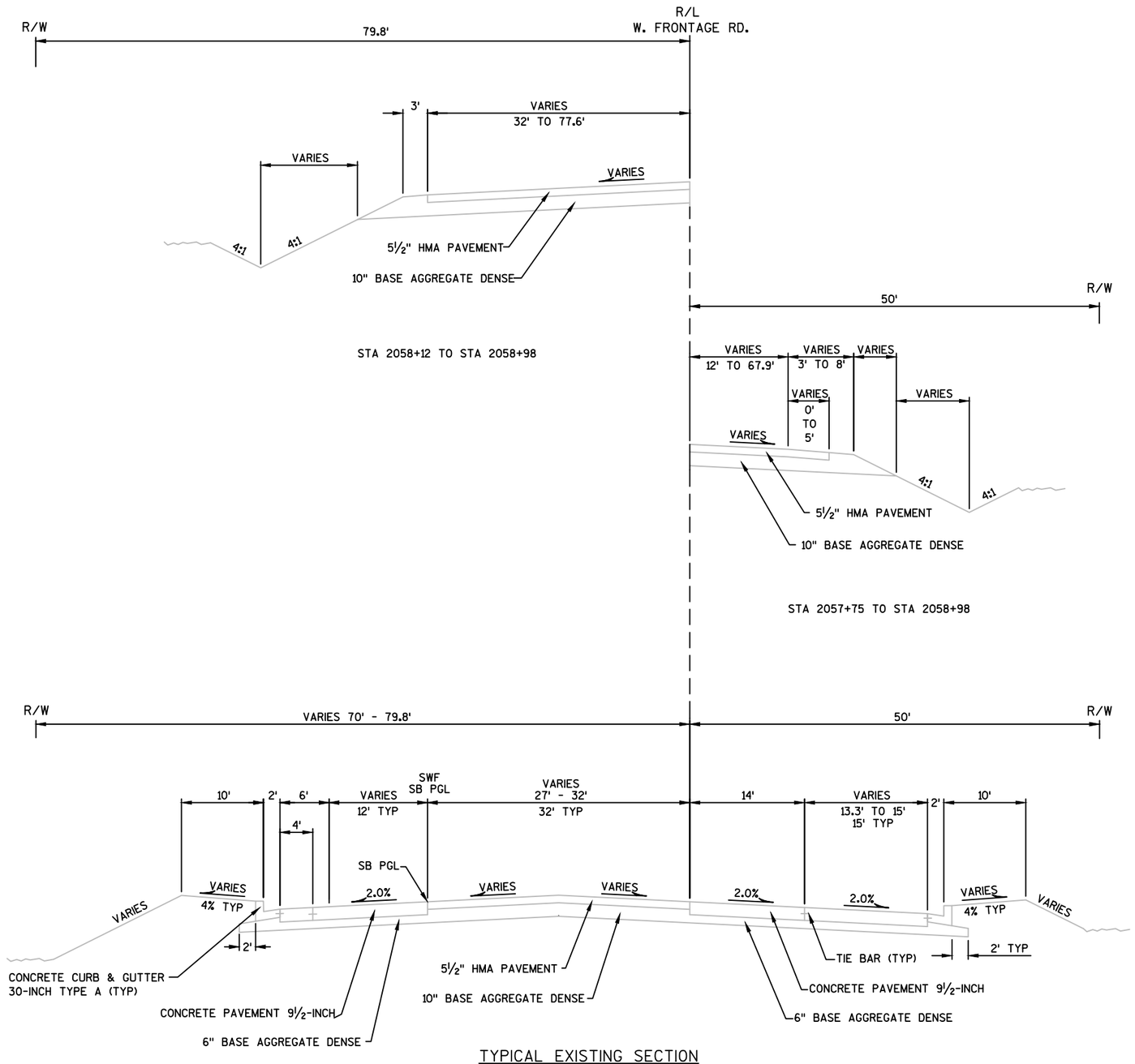


TYPICAL EXISTING SECTION
CTH K
STA 57+39 TO STA 76+00



TYPICAL EXISTING SECTION
CTH K
STA 47+75 TO STA 52+00

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL EXISTING SECTIONS	SHEET 7	E

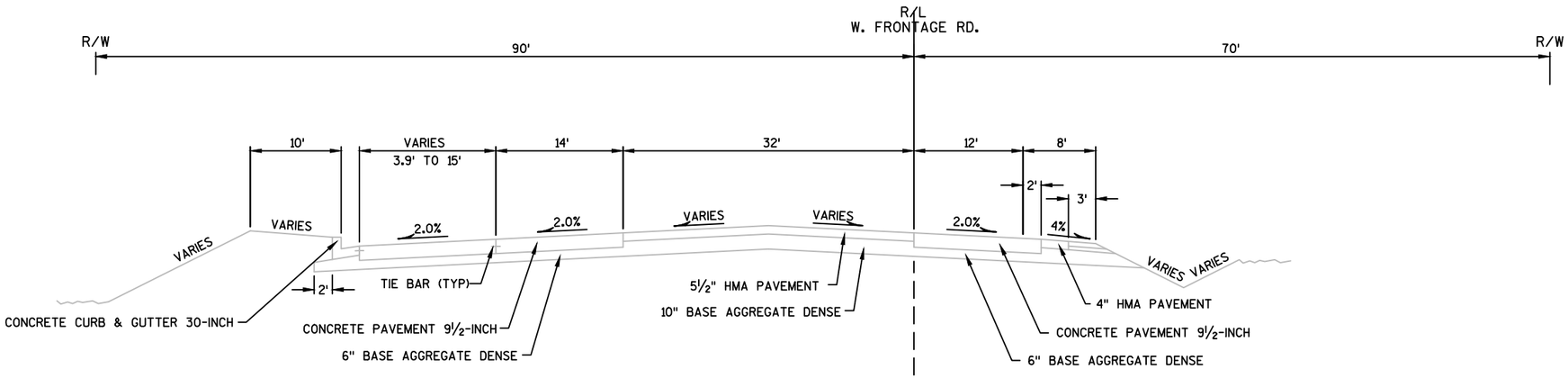


TYPICAL EXISTING SECTION

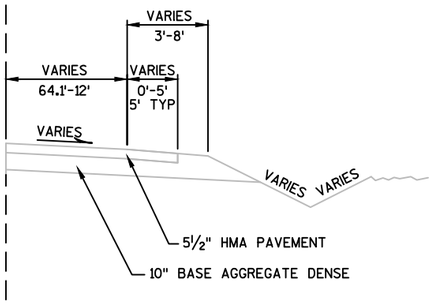
WEST FRONTAGE ROAD

STA 2055+00 TO STA 2058+98

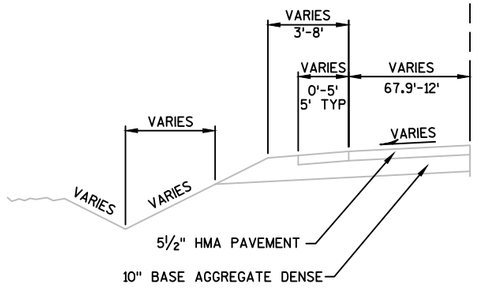
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL EXISTING SECTIONS	SHEET 8	E



TYPICAL EXISTING SECTION
WEST FRONTAGE ROAD
STA 4054+21 TO STA 4057+02

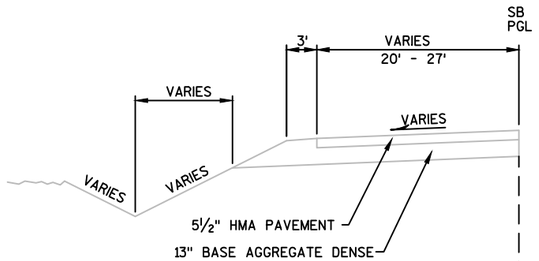


STA 4054+12 TO STA 4055+20

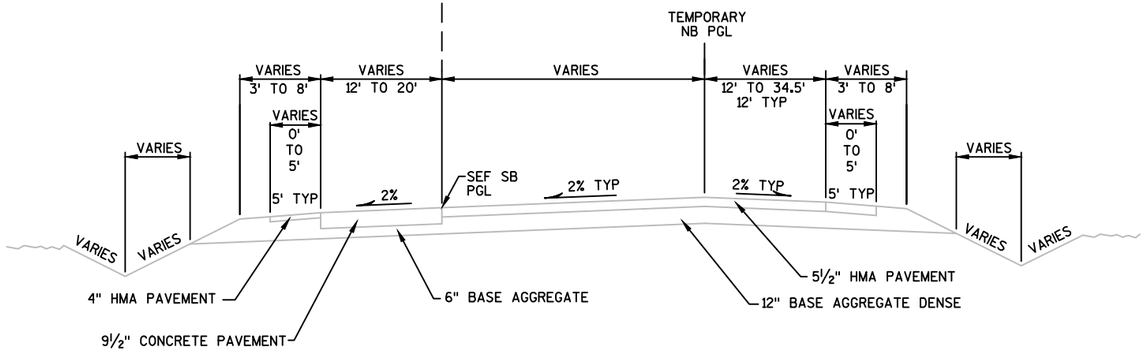


STA 4054+21 TO STA 4054+94

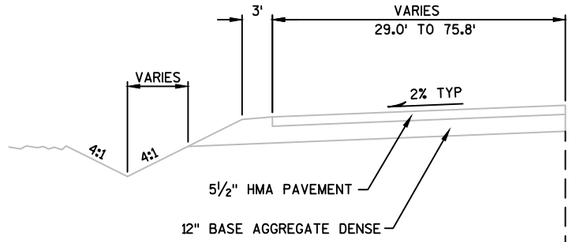
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL EXISTING SECTIONS	SHEET 9	E



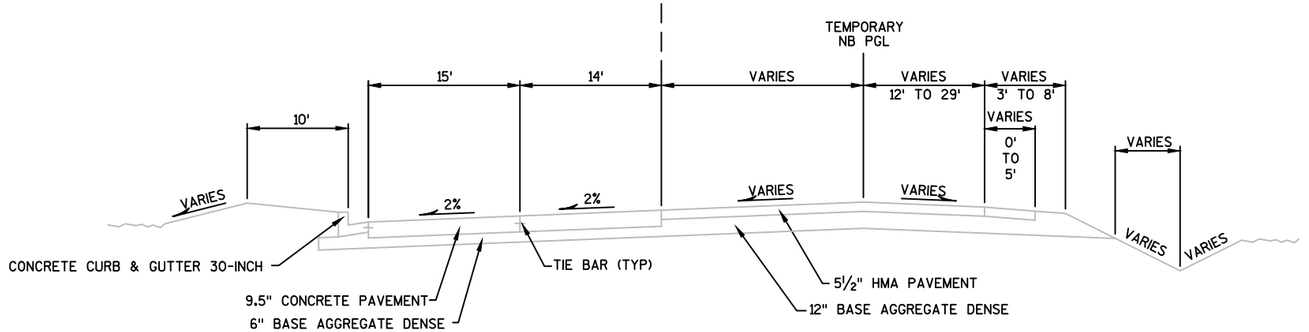
STA 3054+97 TO STA 3056+18



TYPICAL EXISTING SECTION
EAST FRONTAGE ROAD
STA 3052+35 TO STA 3056+18

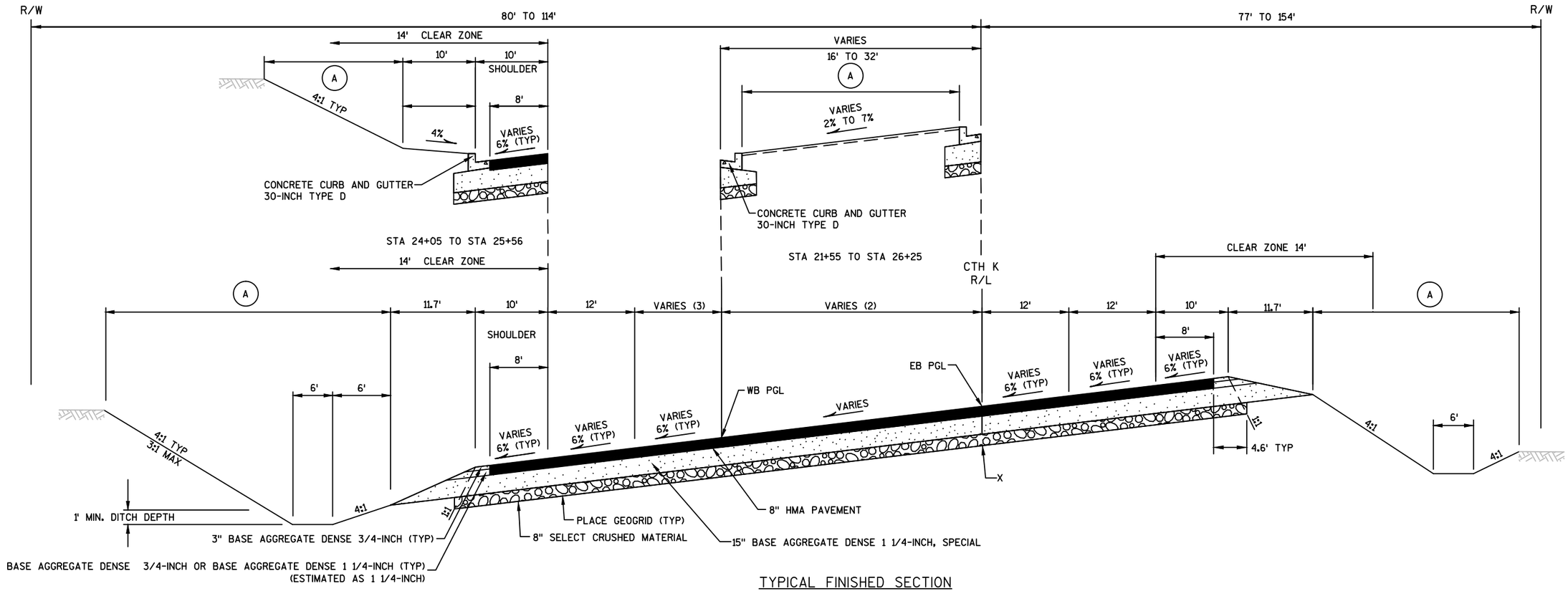


STA 5052+31 TO STA 5053+53



TYPICAL EXISTING SECTION
EAST FRONTAGE ROAD
STA 5051+95 TO STA 5055+00

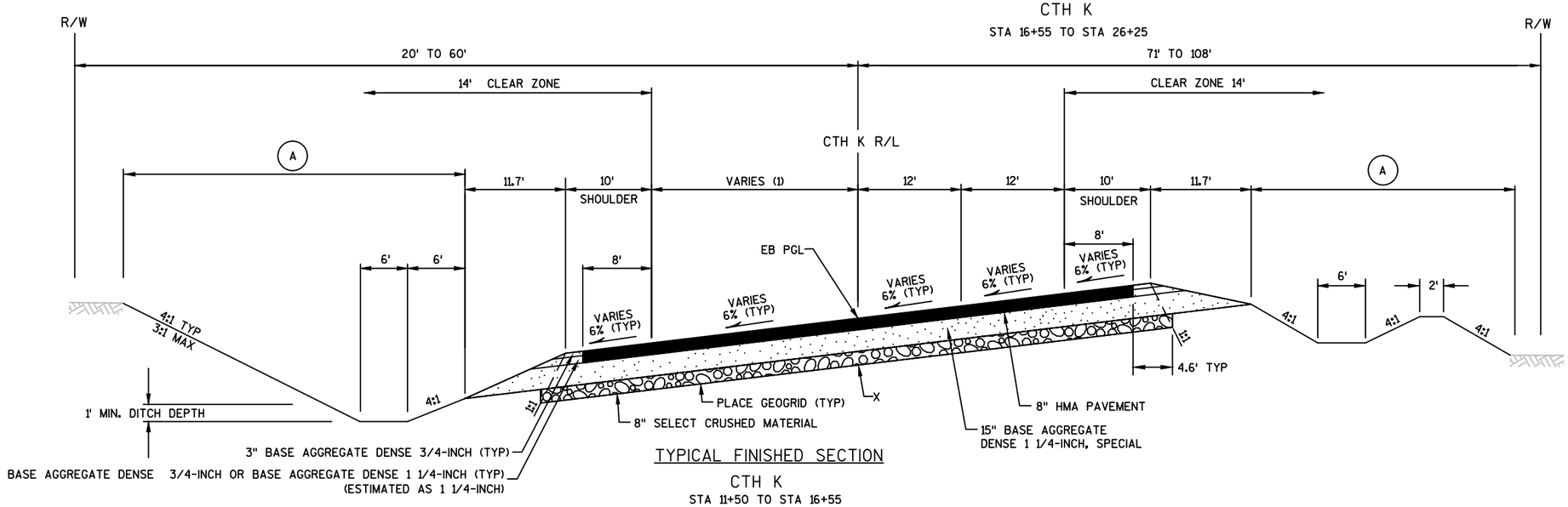
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL EXISTING SECTIONS	SHEET 10	E



TYPICAL FINISHED SECTION

CTH K

STA 16+55 TO STA 26+25



TYPICAL FINISHED SECTION

CTH K

STA 11+50 TO STA 16+55

LEGEND

(A) 6" SALVAGED TOPSOIL, MULCHING, SEEDING MIXTURE 30, AND FERTILIZER TYPE B.

FOOTNOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

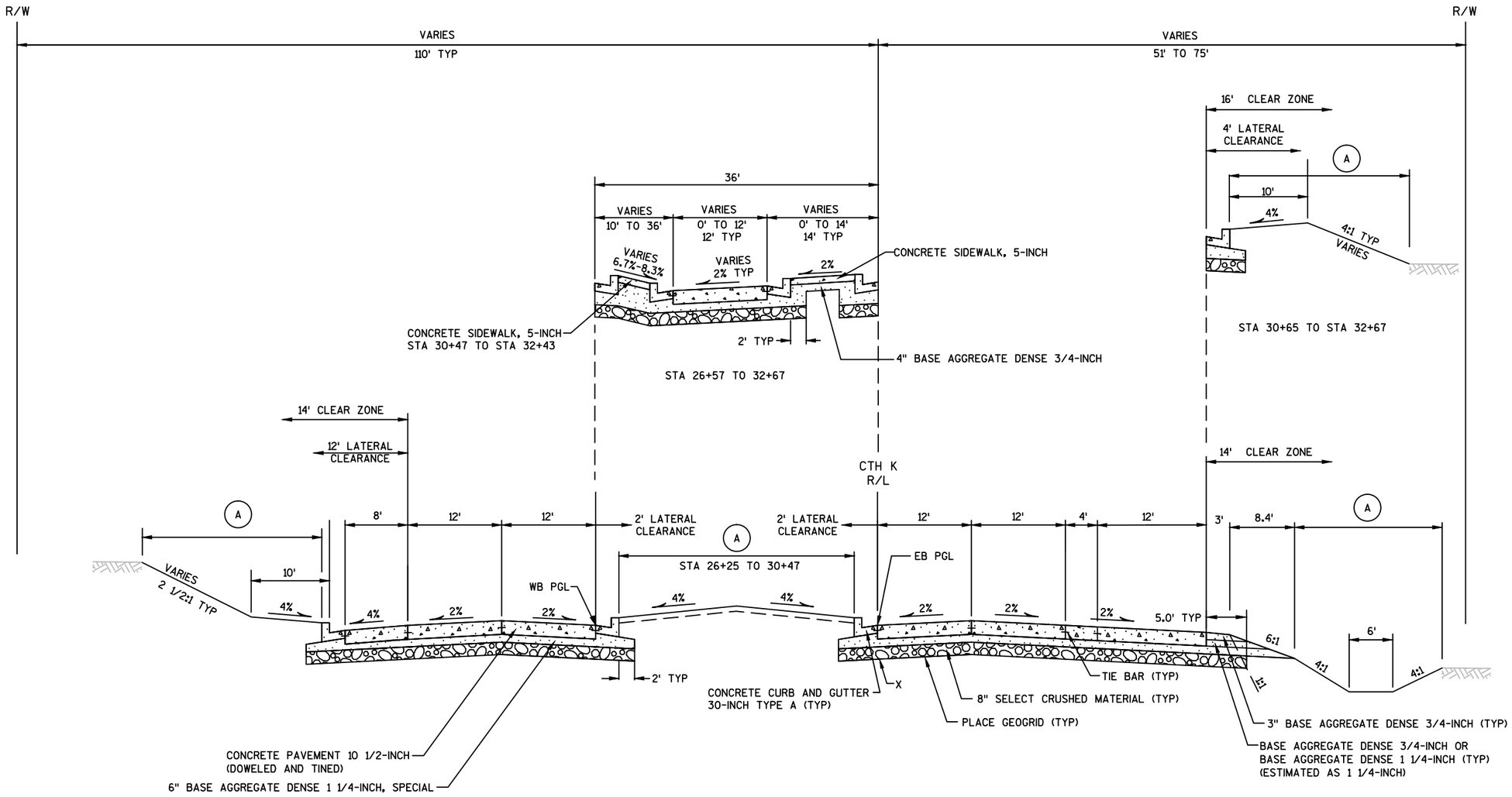
X = POINT REFERRED TO ON CROSS SECTION

(1) 0' TO 17', STA 14+18 TO STA 16+55

(2) 0' TO 16', STA 16+55 TO STA 21+55

(3) 10.3' TO 12.0', STA 16+55 TO STA 22+37

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 11	E



TYPICAL FINISHED SECTION

CTH K

STA 26+25 TO 32+67

NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

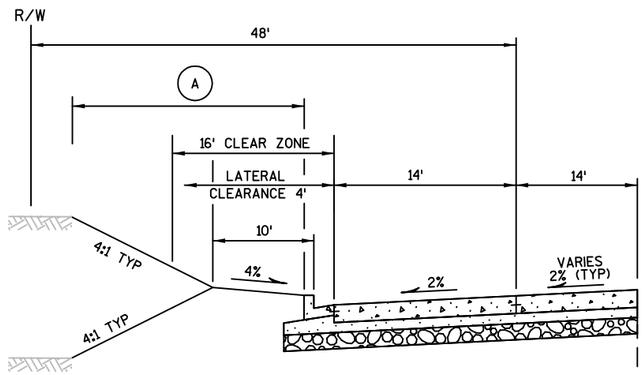
X = POINT REFERRED TO ON CROSS SECTION

LEGEND

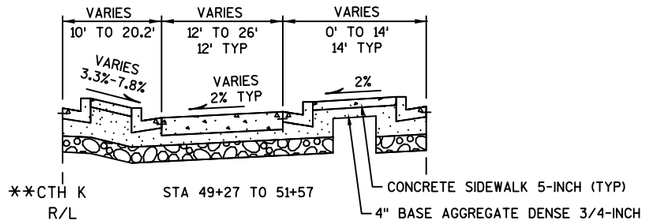
(A) 6" SALVAGED TOPSOIL, MULCHING, SEEDING MIXTURE 30, AND FERTILIZER TYPE B.

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 12	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\020301_TS.DWG
1030-11-71 - 020307
PLOT DATE : 12/13/2016 9:33 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 15:1
WISDOT/CADDS SHEET 42

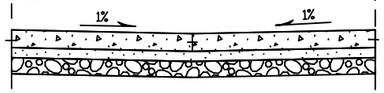


STA 47+75 TO STA 50+57

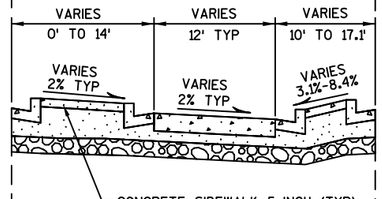


**CTH K
R/L
WB PGL

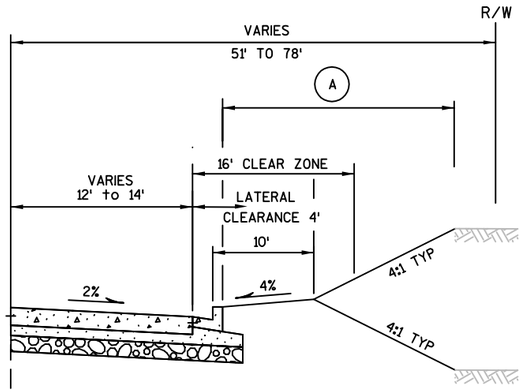
STA 49+27 TO 51+57



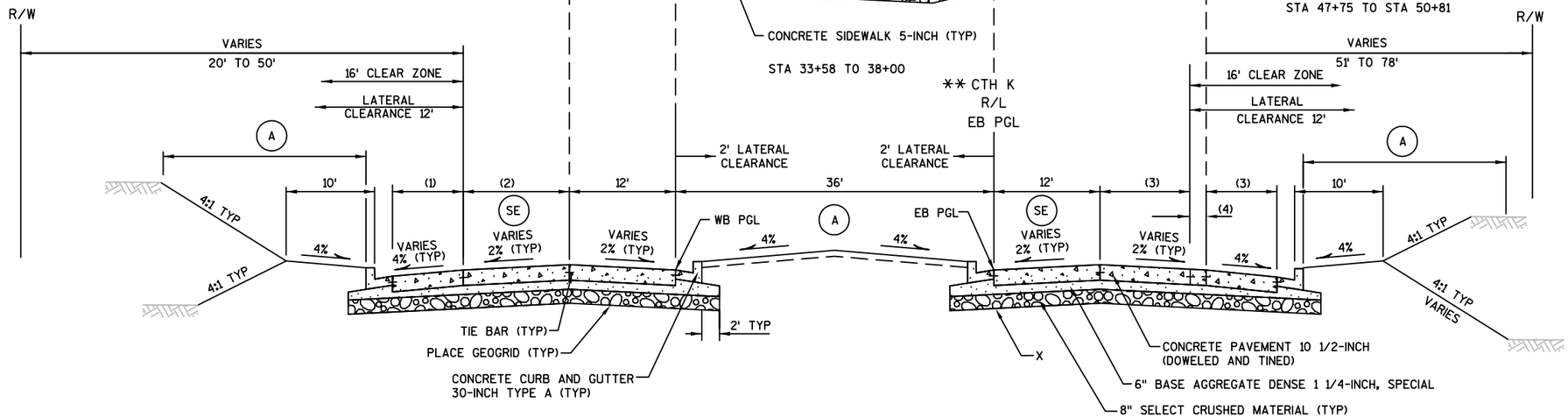
STA 32+67 TO STA 33+58
STA 51+57 TO STA 52+41



STA 33+58 TO 38+00



STA 34+25 TO STA 38+00
STA 47+75 TO STA 50+81



TYPICAL FINISHED SECTION

CTH K

STA 32+67 TO STA 38+00
STA 47+75 TO STA 52+41

LEGEND

(A) 6" SALVAGED TOPSOIL, MULCHING, SEEDING MIXTURE 30, AND FERTILIZER TYPE B.

(SE) SEE ALIGNMENT PLAN FOR SUPERELEVATION DATA

NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

** CTH K R/L SWITCHES FROM EB PGL TO WB PGL AT STA 52+27.40

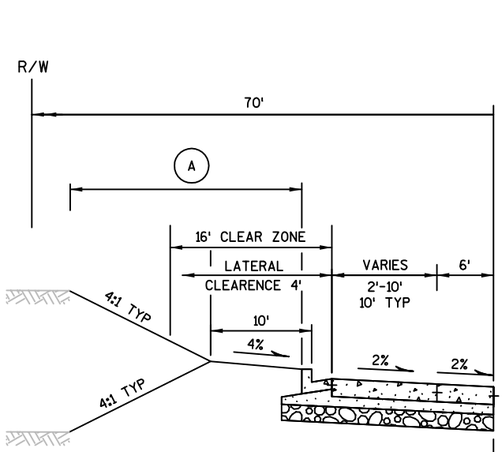
(1) 8' STA 32+67 TO STA 38+00
14' STA 47+75 TO STA 52+41

(2) 12' STA 32+67 TO STA 38+00
14' STA 47+75 TO STA 52+41

(3) 14' STA 32+67 TO STA 38+00
12' STA 47+75 TO STA 52+41

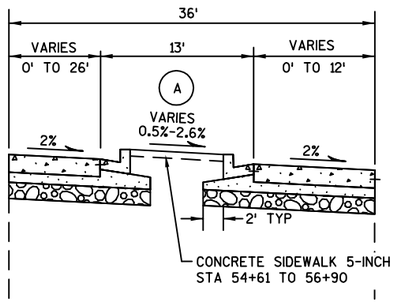
(4) 0' STA 32+67 TO STA 38+00
4' STA 47+75 TO STA 52+41

PROJECT NO:1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

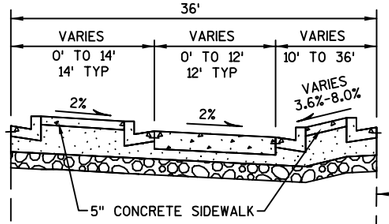


RIGHT TURN LANE

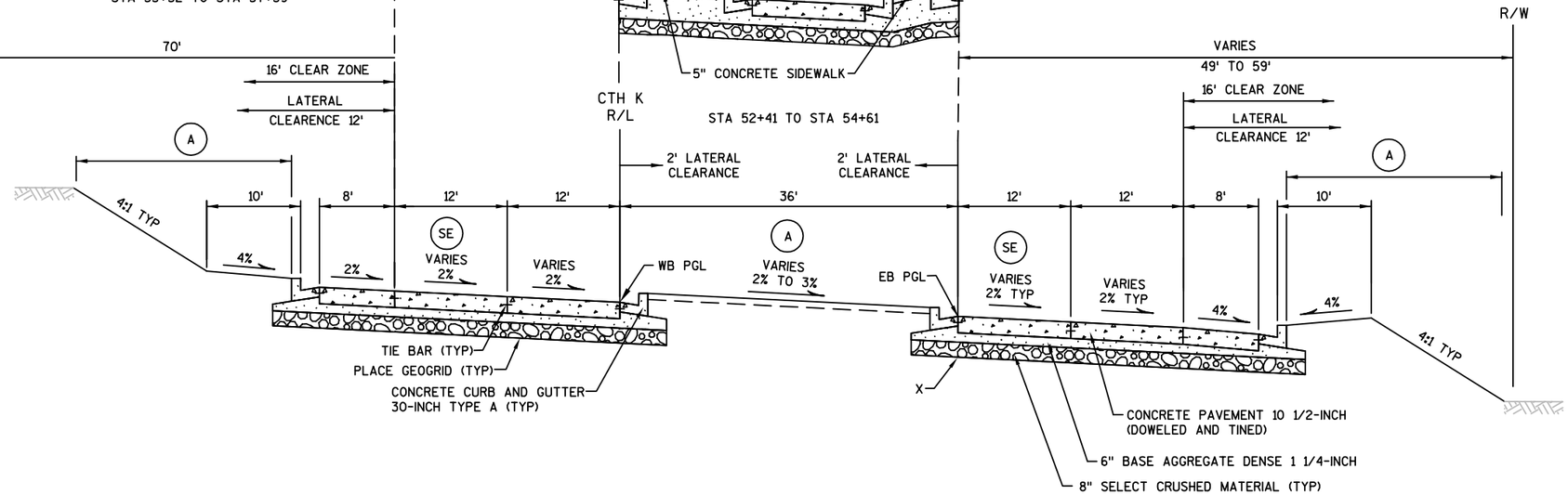
STA 53+32 TO STA 57+39



STA 54+61 TO STA 58+84



STA 52+41 TO STA 54+61



TYPICAL FINISHED SECTION

CTH K

STA 52+41 TO 59+87

LEGEND

(A) 6" SALVAGED TOPSOIL, MULCHING, SEEDING MIXTURE 30, AND FERTILIZER TYPE B.

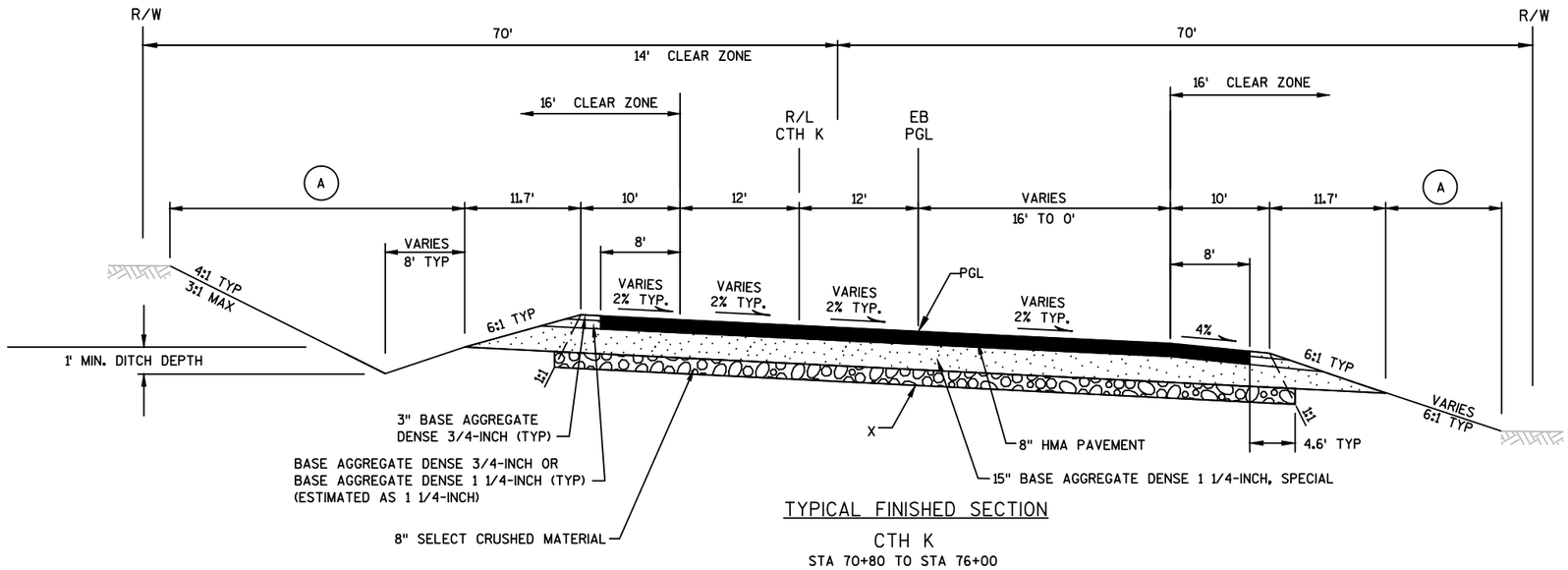
(SE) SEE ALIGNMENT PLAN FOR SUPERELEVATION DATA

NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

PROJECT NO:1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E



TYPICAL FINISHED SECTION

CTH K

STA 70+80 TO STA 76+00

LEGEND

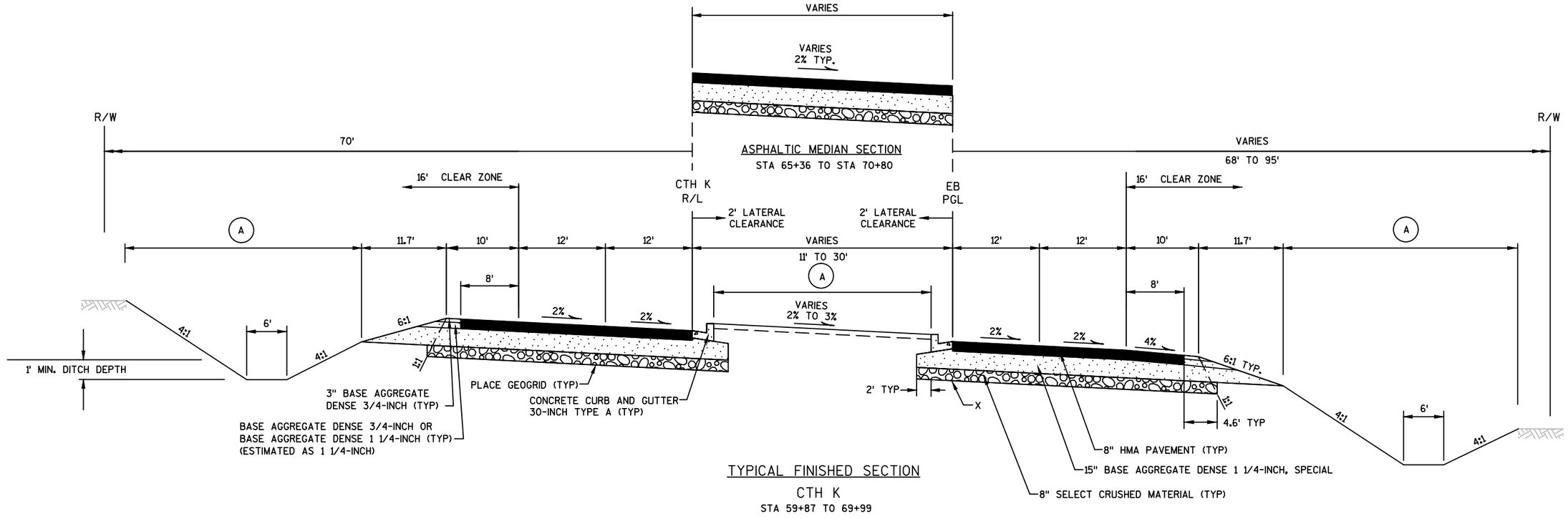
(A) 6" SALVAGED TOPSOIL, MULCHING, SEEDING MIXTURE 30, AND FERTILIZER TYPE B.

(SE) SEE ALIGNMENT PLAN FOR SUPERELEVATION DATA

NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

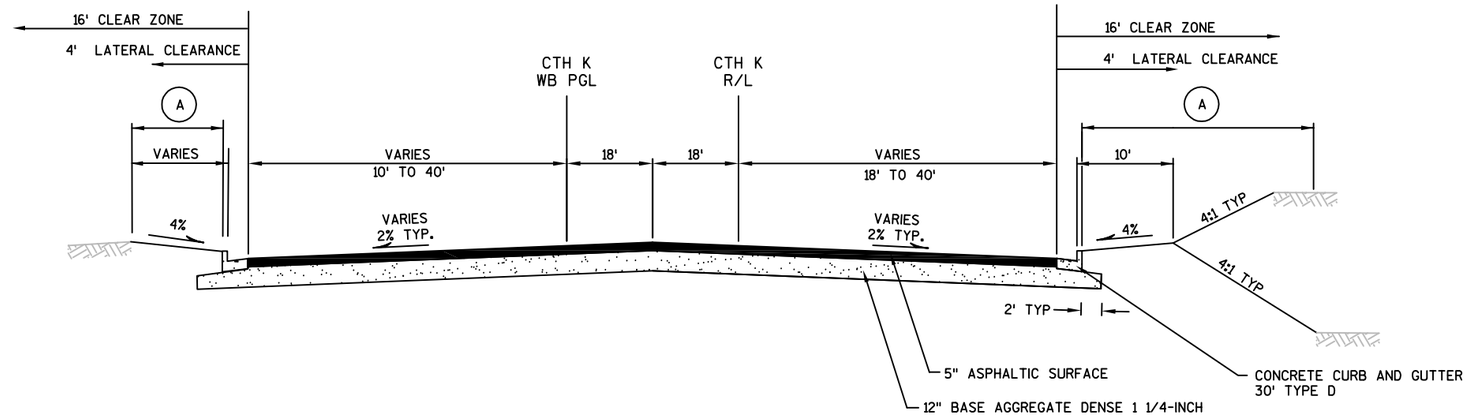


TYPICAL FINISHED SECTION

CTH K

STA 59+87 TO STA 69+99

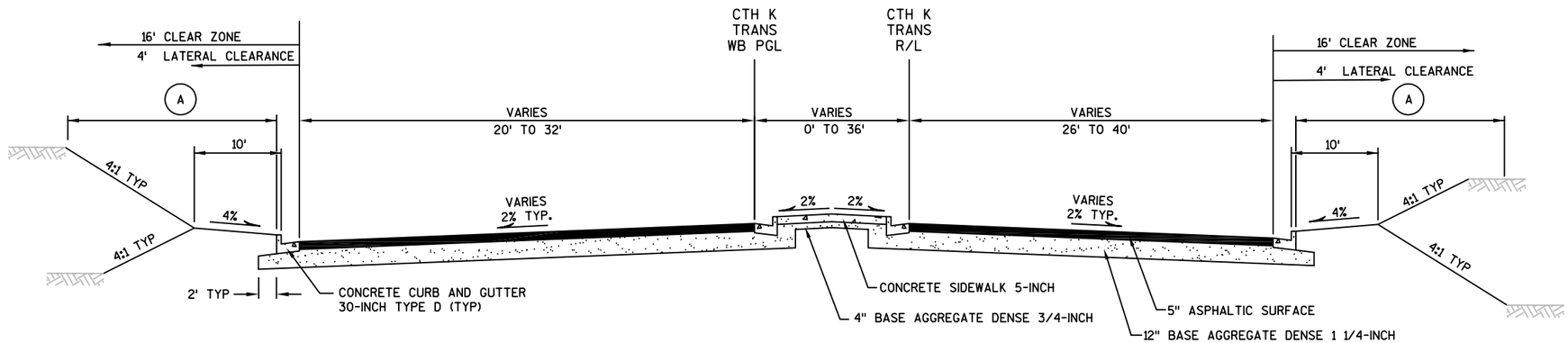
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SHEET 15	E



TYPICAL FINISHED SECTION

CTH K

STA 44+54 TO STA 47+75



TYPICAL FINISHED SECTION

CTH K TRANSITION EASTBOUND

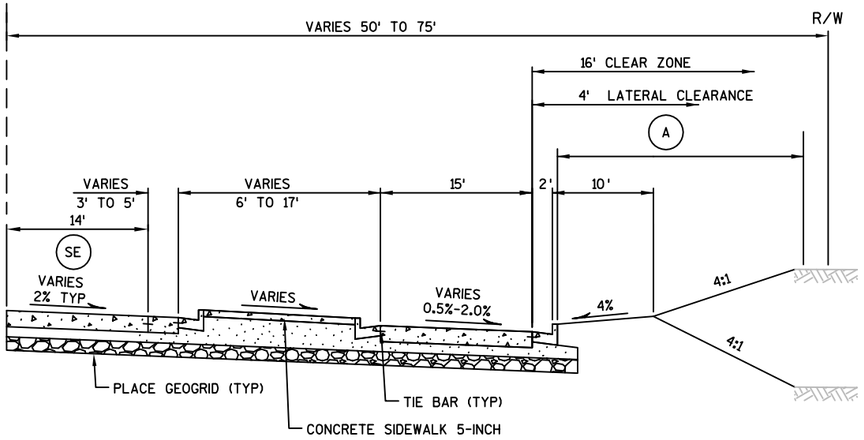
STA 338+00 TO STA 341+06

LEGEND

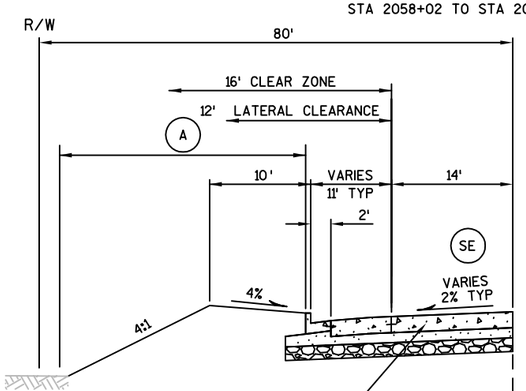
(A) 6" SALVAGED TOPSOIL, MULCHING, SEEDING MIXTURE 30, AND FERTILIZER TYPE B.

(SE) SEE ALIGNMENT PLAN FOR SUPERELEVATION DATA

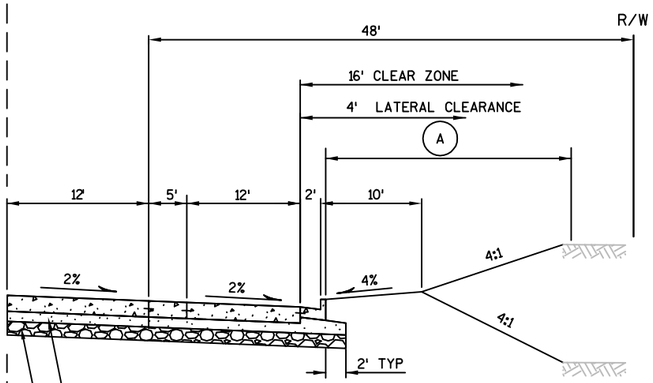
PROJECT NO:1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E



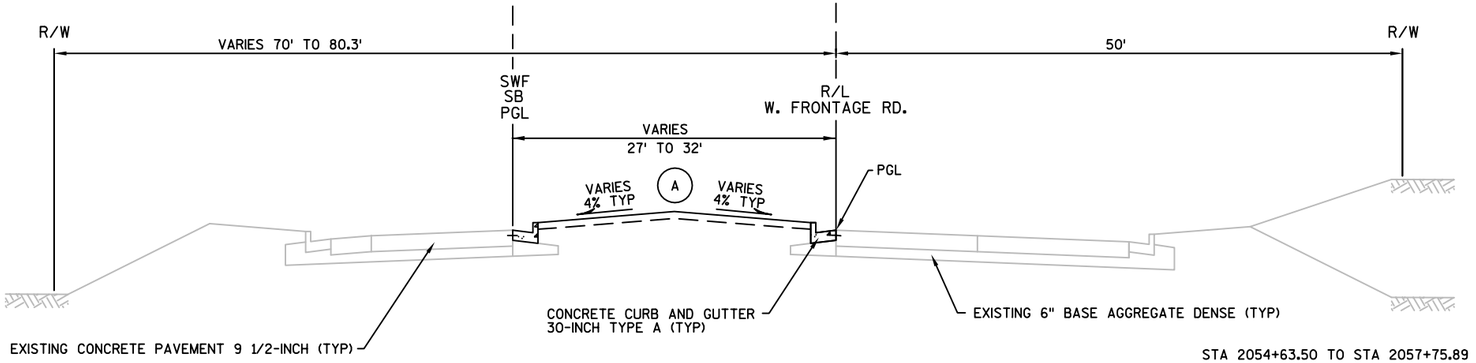
STA 2058+02 TO STA 2058+98



STA 2058+14 TO STA 2058+98



STA 2057+25 TO STA 2058+02



STA 2054+63.50 TO STA 2057+75.89

LEGEND

(A) 6" SALVAGED TOPSOIL, MULCHING, SEEDING MIXTURE 30, AND FERTILIZER TYPE B.

(SE) SEE ALIGNMENT PLAN FOR SUPERELEVATION DATA

NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

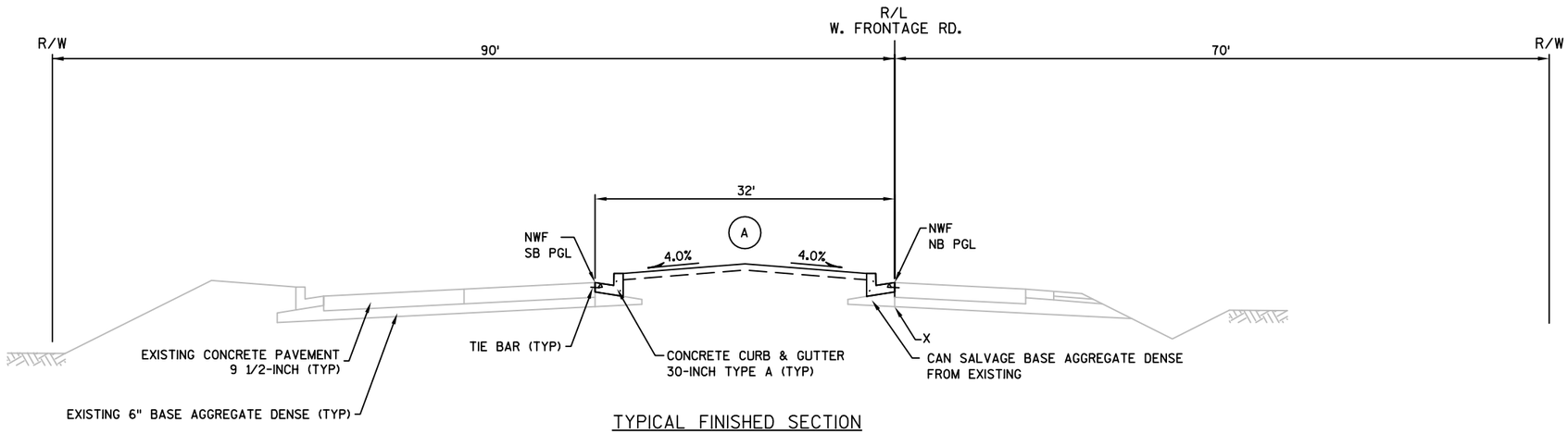
X = POINT REFERRED TO ON CROSS SECTION

TYPICAL FINISHED SECTION

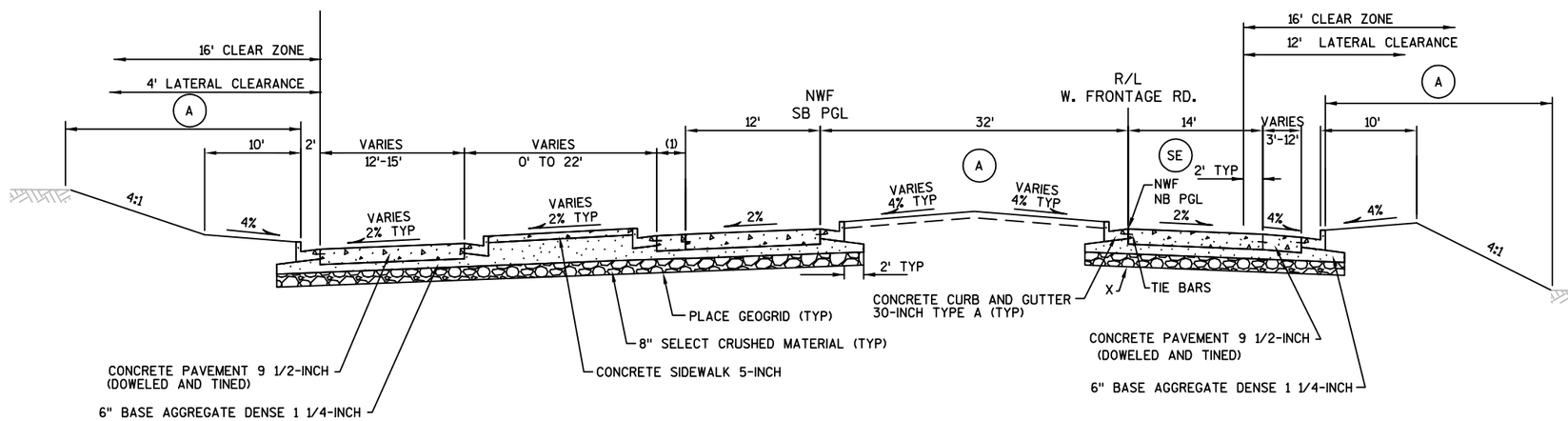
WEST FRONTAGE ROAD

STA 2055+00 TO STA 2058+98

PROJECT NO:1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E



TYPICAL FINISHED SECTION
WEST FRONTAGE ROAD
STA 4055+20 TO STA 4057+02



TYPICAL FINISHED SECTION
WEST FRONTAGE ROAD
STA 4053+74 TO STA 4055+20

LEGEND

(A) 6" SALVAGED TOPSOIL, MULCHING, SEEDING MIXTURE 30, AND FERTILIZER TYPE B.

(SE) SEE ALIGNMENT PLAN FOR SUPERELEVATION DATA

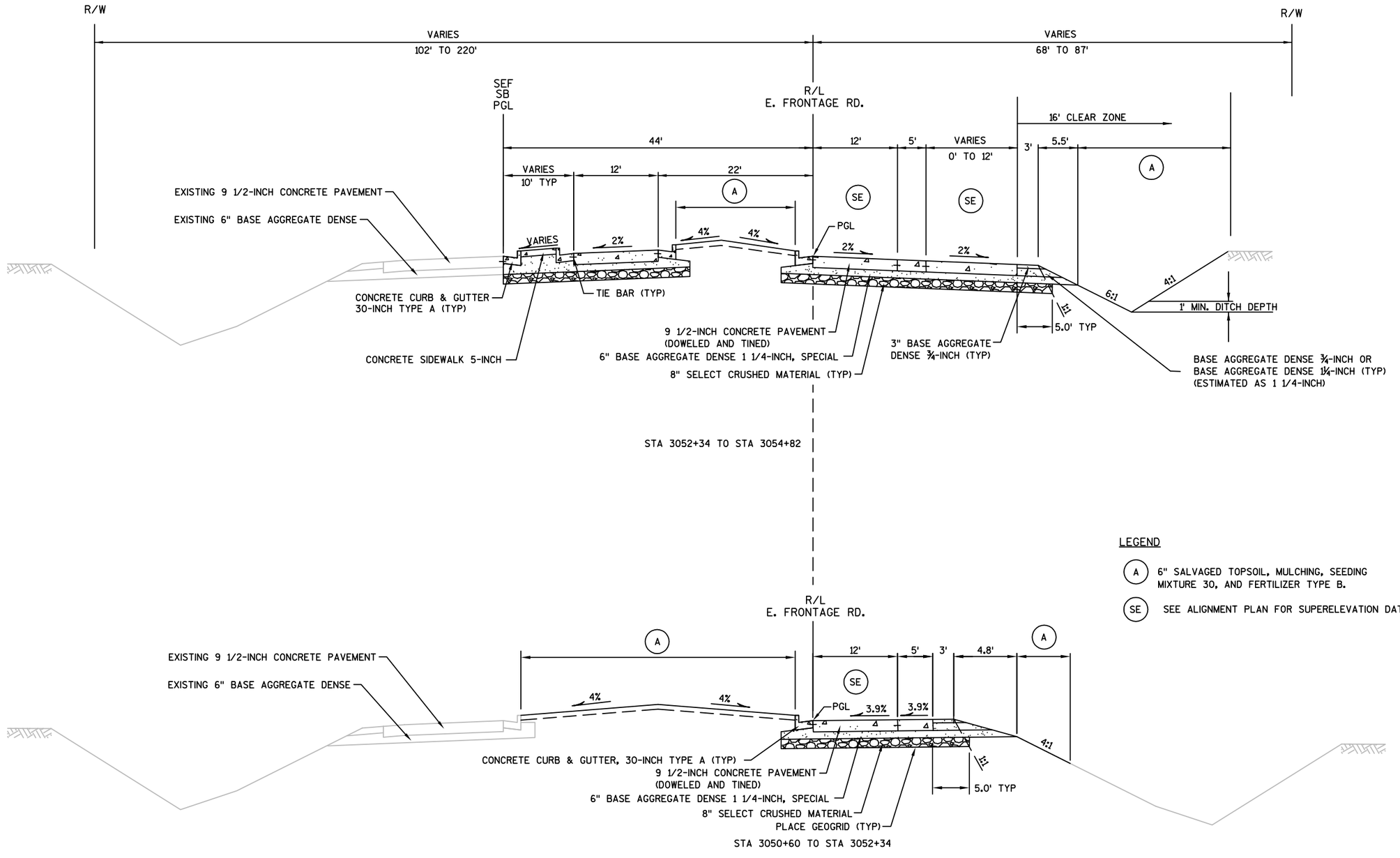
NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

(1) 5'-7' STA 4053+84 TO STA 4054+27

PROJECT NO:1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

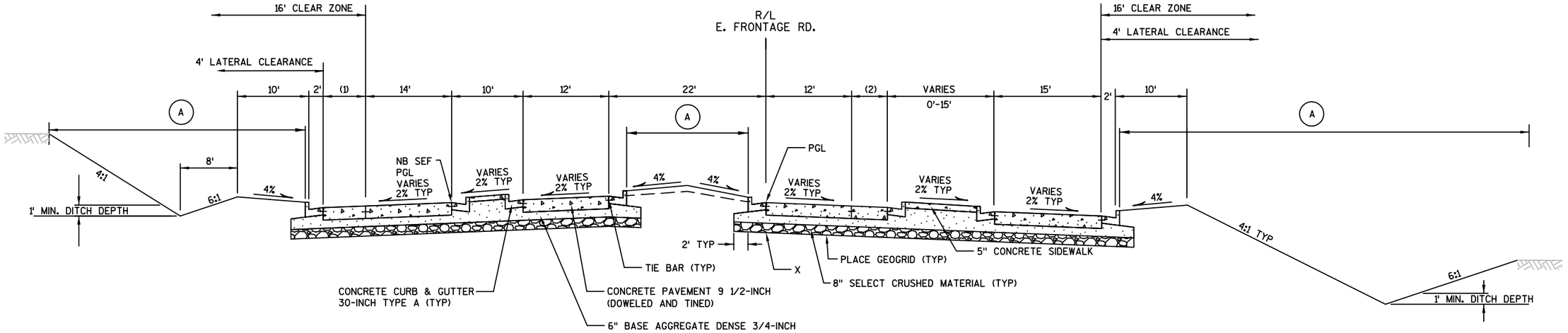


TYPICAL FINISHED SECTION

EAST FRONTAGE ROAD

STA 3050+60 TO STA 3054+82

PROJECT NO:1030-11-71	HWY:IH 94/CTH K	COUNTY:RACINE	TYPICAL SECTIONS	SHEET	E



TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD
STA 3054+82 TO STA 3055+92

LEGEND

(A) 6" SALVAGED TOPSOIL, MULCHING, SEEDING MIXTURE 30, AND FERTILIZER TYPE B.

(SE) SEE ALIGNMENT PLAN FOR SUPERELEVATION DATA

NOTE

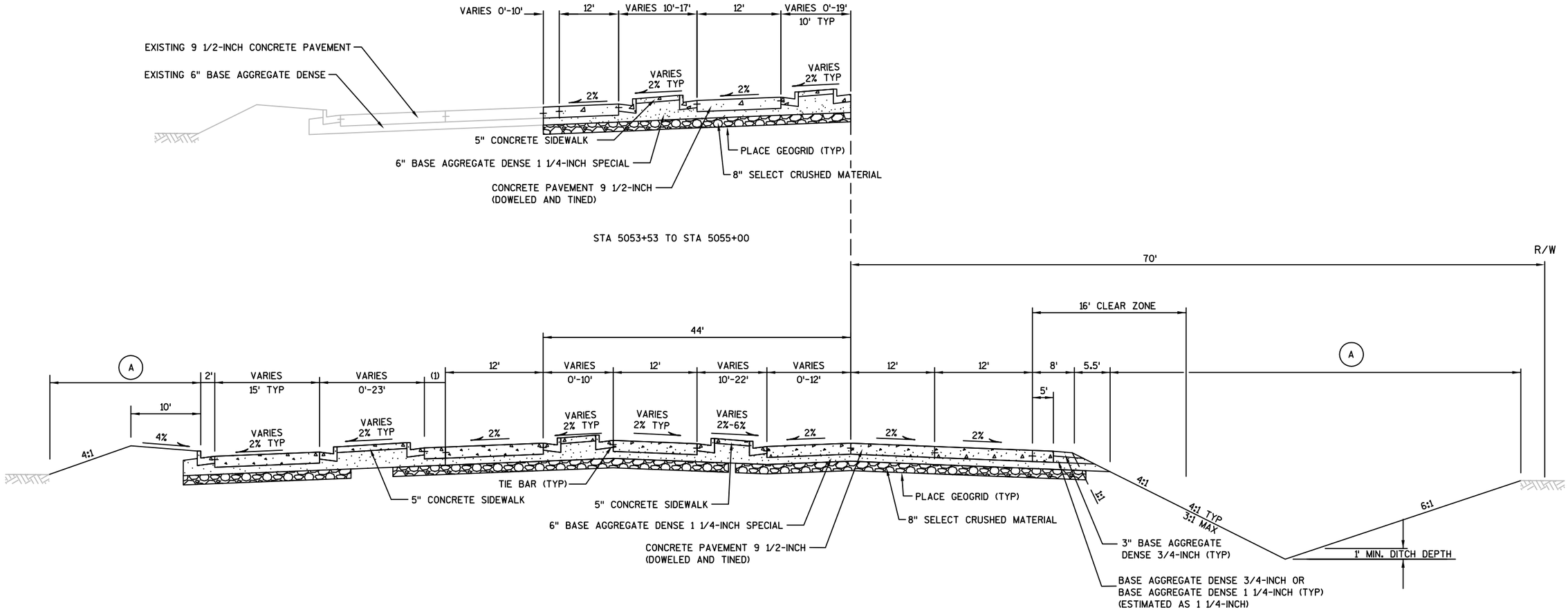
PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

LC = LATERAL CLEARANCE

(1) 6' TO 12' STA 3054+97 TO STA 3055+92
(2) 7' TO 5' STA 3055+40 TO STA 3055+80

PROJECT NO:1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E



TYPICAL FINISHED SECTION
EAST FRONTAGE ROAD
STA 5052+18 TO STA 5055+00

LEGEND

(A) 6" SALVAGED TOPSOIL, MULCHING, SEEDING MIXTURE 30, AND FERTILIZER TYPE B.

NOTE

PGL = POINT REFERRED TO ON PROFILE AND PIVOT POINT FOR SUPERELEVATION

X = POINT REFERRED TO ON CROSS SECTION

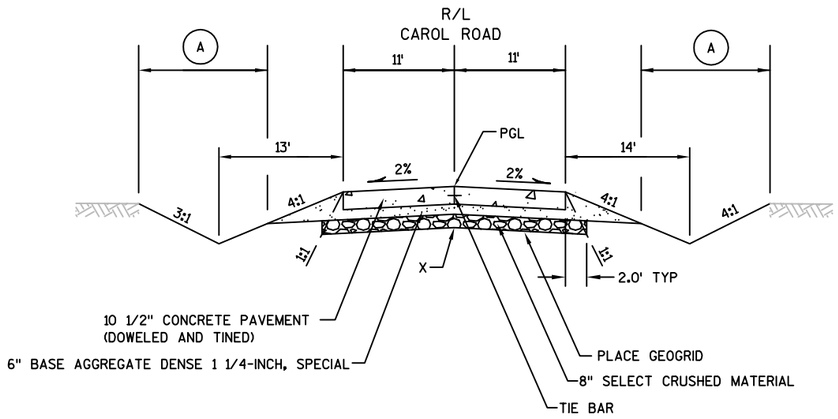
LC = LATERAL CLEARANCE

(1) 5'-7' STA 5052+46 TO STA 5052+96

LC = LATERAL CLEARANCE

PROJECT NO:1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TYPICAL SECTIONS	SHEET	E

2



TYPICAL FINISHED SECTION

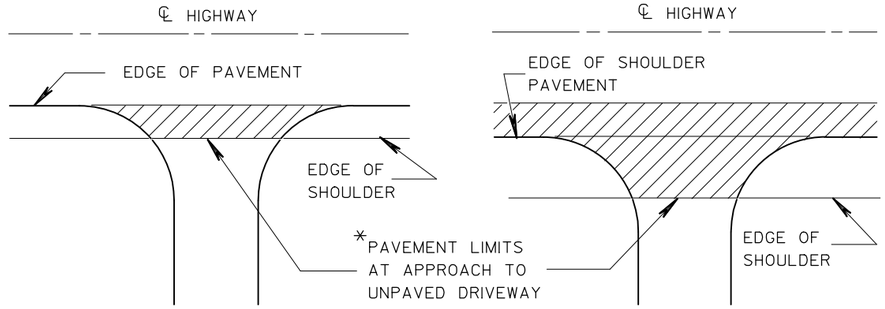
CAROL ROAD

STA 10+00.00 TO STA 11+43.66

LEGEND

(A) SEEDING MIXTURE NO. 30 & FERTILIZER TYPE B
MIXTURE 30, AND FERTILIZER TYPE B.

PROJECT NO:1030-11-71	HWY:IH 94/CTH K	COUNTY:RACINE	TYPICAL SECTIONS	SHEET	E

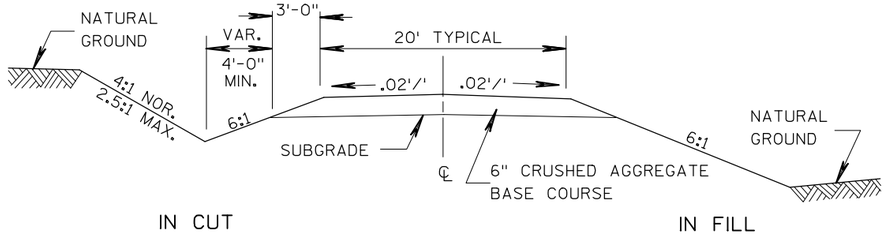


*WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

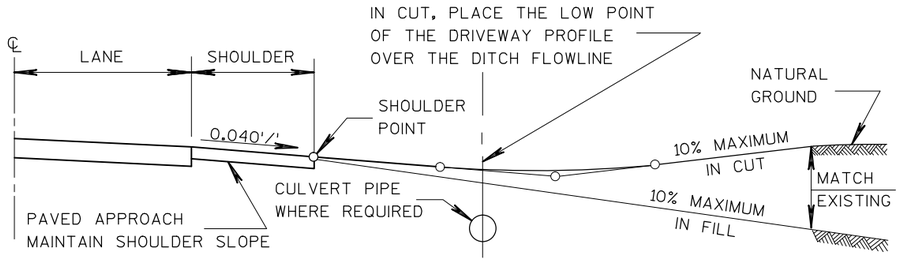
RURAL DRIVEWAY INTERSECTION DETAIL



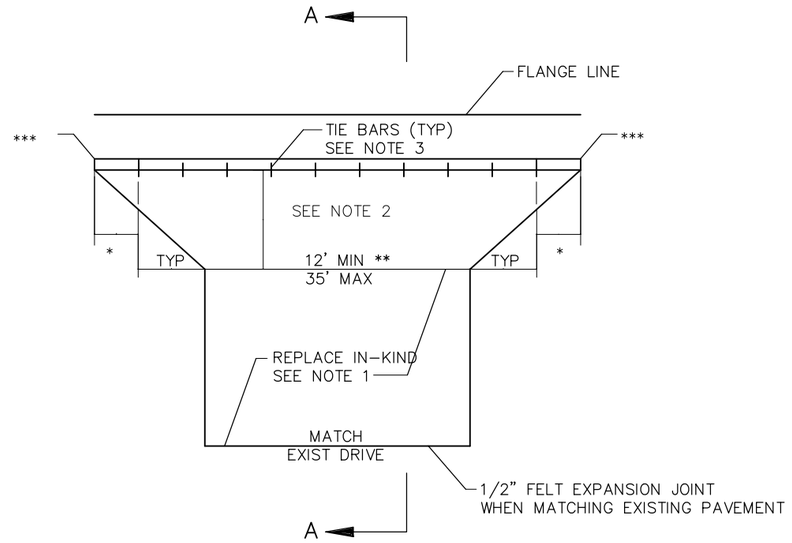
IN CUT

IN FILL

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE



TYPICAL DRIVEWAY PROFILES



PLAN VIEW

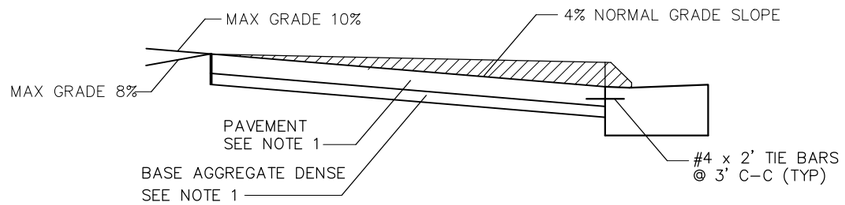
NOTES

1. DRIVEWAY SURFACE BEYOND APRON TO BE REPLACED IN-KIND WITH MINIMUM SECTION OF: ASPHALTIC SURFACE (5-INCH) DRIVEWAYS AND FIELD ENTRANCES OVER BASE AGGREGATE DENSE 3/4-INCH (6-INCH) OR CONCRETE DRIVEWAY 6-INCH OVER BASE AGGREGATE DENSE 3/4-INCH (4-INCH) OR BASE AGGREGATE DENSE 3/4-INCH (10-INCH)

2. ALL URBAN DRIVEWAYS TO BACK OF APRON TO BE PAID FOR AS CONCRETE DRIVEWAY 6-INCH

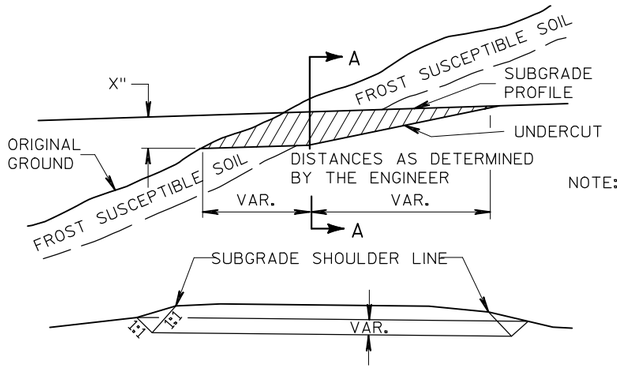
3. TIE BARS ARE INCIDENTAL TO THE BID ITEM "CONCRETE DRIVEWAY 6-INCH".

* TAPER CURB HEAD (1.5" TO 6")
** SEE PAVING DETAILS FOR WIDTH REQUIRED
*** STATION SHOWN ON PAVING DETAILS



SECTION A-A

URBAN DRIVEWAY



SECTION A-A

CROSS SECTION SHOWING UNDERCUT

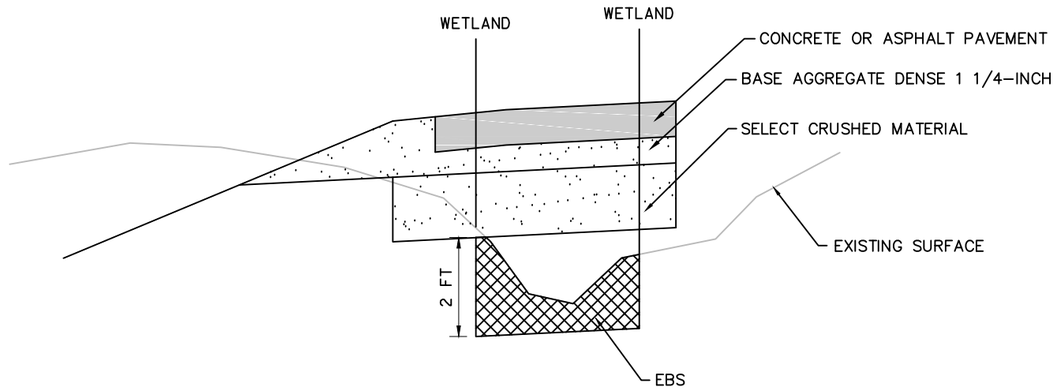
DETAIL FOR EXCAVATION BELOW SUBGRADE AT CUTS

NOTE: EXACT LOCATIONS AND EXTENT OF E.B.S. SECTIONS SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

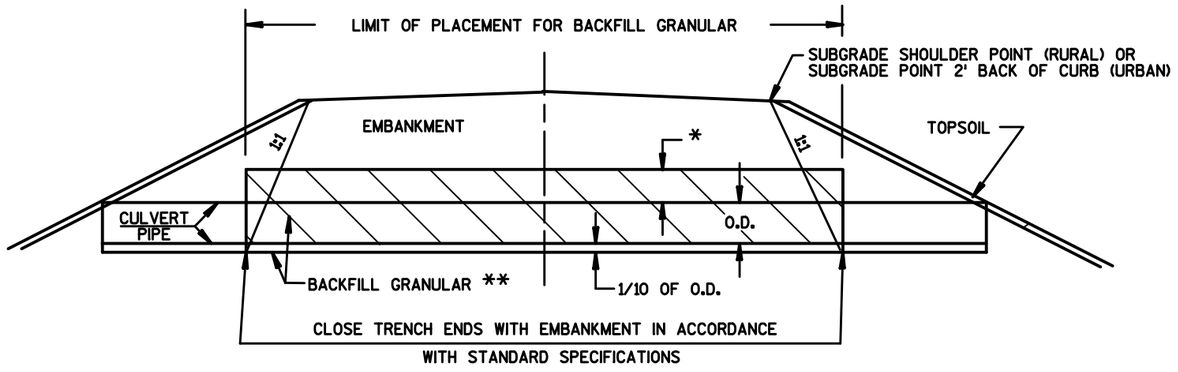
E.B.S. AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER

BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.

THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED.



DETAIL FOR EXCAVATION BELOW SUBGRADE (EBS) AT WETLANDS



CULVERT BACKFILL DETAIL

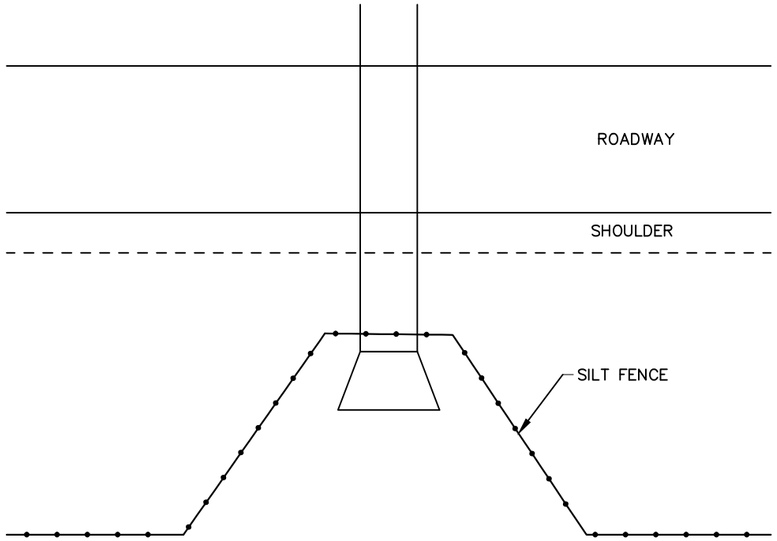
OD = OUTSIDE DIAMETER
* CULVERT PIPE IN NEW EMBANKMENT = 1' MIN
* CULVERT PIPE IN EXISTING EMBANKMENT = TO EXISTING GROUND ELEVATION
** INCIDENTAL TO CULVERT PIPE

2

RUNOFF COEFFICIENT TABLE

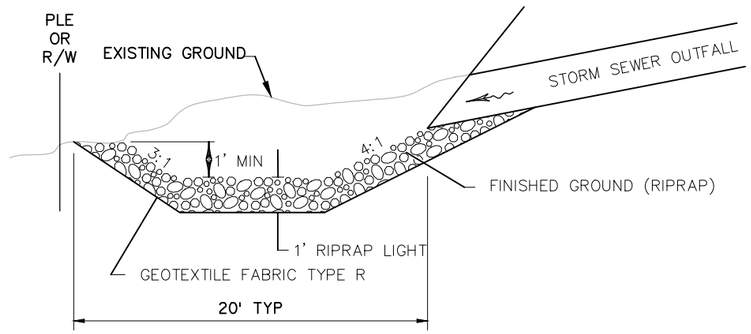
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .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 = 33.11 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 22.95 ACRES

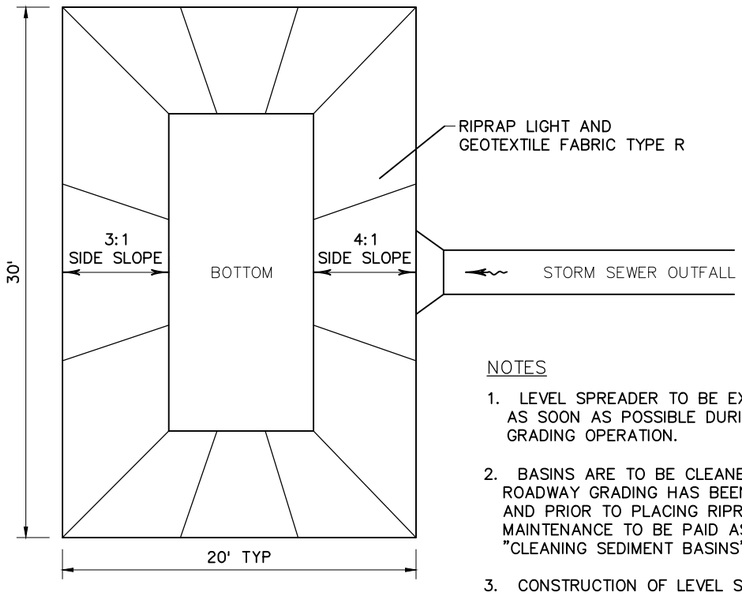


NOTE
SEE SILT FENCE SDD FOR ADDITIONAL INFORMATION.

TYPICAL SILT FENCE DETAIL AT PIPE INLET



SECTION VIEW



NOTES

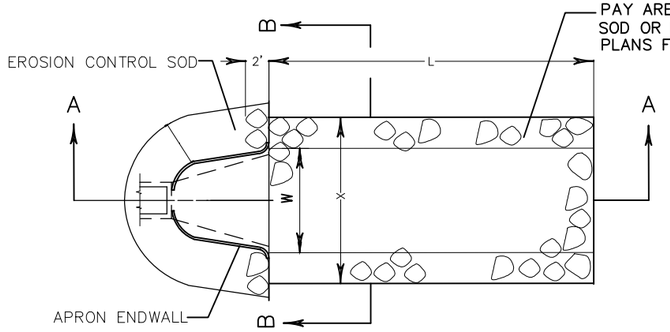
1. LEVEL SPREADER TO BE EXCAVATED AS SOON AS POSSIBLE DURING ROADWAY GRADING OPERATION.
2. BASINS ARE TO BE CLEANED AFTER ROADWAY GRADING HAS BEEN COMPLETED AND PRIOR TO PLACING RIPRAP. BASIN MAINTENANCE TO BE PAID AS "CLEANING SEDIMENT BASINS".
3. CONSTRUCTION OF LEVEL SPREADER TO BE PAID AS EXCAVATION COMMON, RIPRAP LIGHT, AND GEOTEXTILE FABRIC TYPE R.

PLAN VIEW

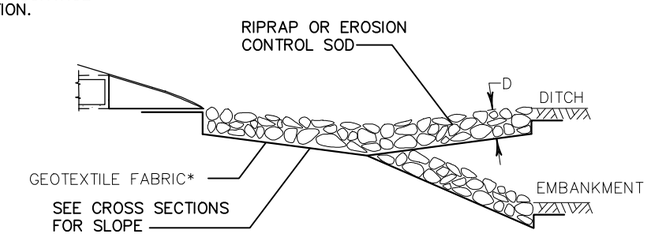
PERMANENT STORM SEWER OUTFALL LEVEL SPREADER DETAIL

REFER TO EROSION CONTROL PLANS FOR LOCATIONS

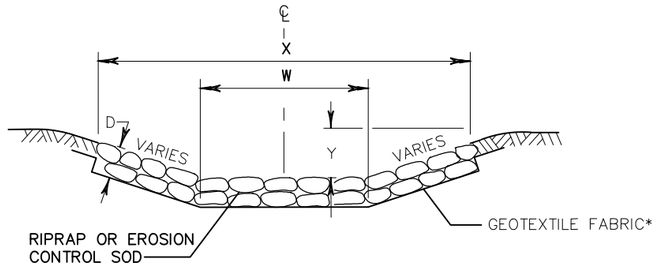
2



PLAN VIEW



SECTION A–A



SECTION B–B

L = 3 x W (NOR) OR 10' MIN
OR AS INDICATED IN THE PLANS
OR AS DIRECTED BY THE ENGINEER

D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

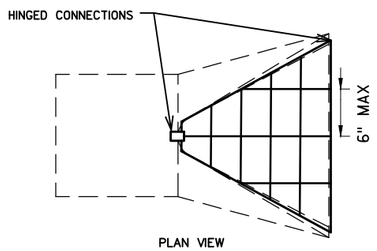
TYPE R (FOR RIPRAP LIGHT ONLY)
TYPE HR (FOR RIPRAP HEAVY AND MEDIUM ONLY)

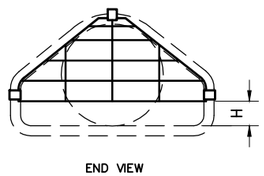
X = W+2' FOR TYPICAL CULVERT DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE DOWN EMBANKMENT SLOPE

Y = 0' FOR TYPICAL CULVERT DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE DOWN EMBANKMENT SLOPE

SOD, RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

SEE EROSION CONTROL PLAN FOR LOCATIONS





PIPE GRATE

GRATE CLEARANCE HEIGHT

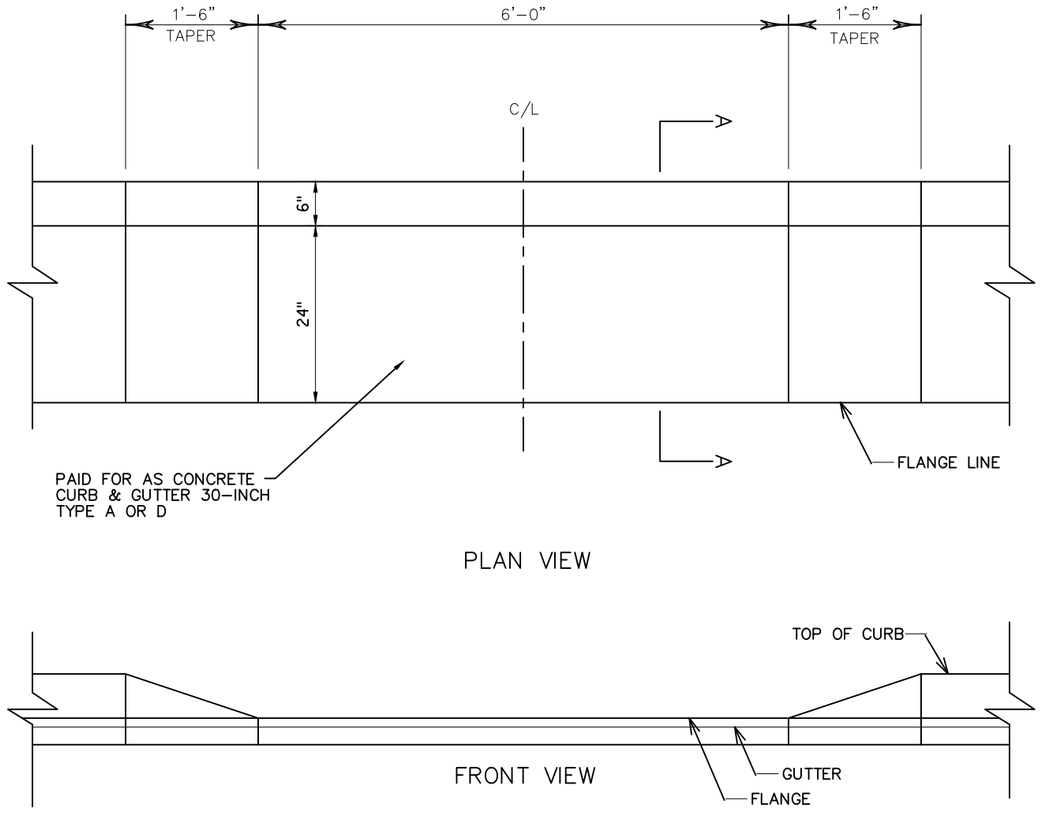
ROUND PIPE		ARCH PIPE	
PIPE SIZE	H	PIPE SIZE	H
12"	2 1/2"	22" – 29"	4"
15"	3"	36" – 44"	5"
18" – 24"	4"	51" – 65"	6"
27" – 36'	5"	73" – 85"	7"
42" – 54"	6"		
60" – 72"	7"		
78" – 90"	8"		

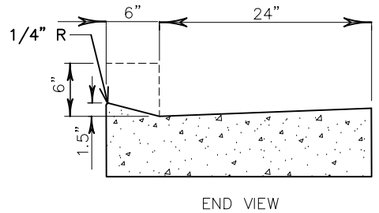
GRATE BAR SIZES

(STANDARD DESIGN)

	PIPE SIZE	HOLE DIAMETER REQUIRED	BOLT DIAMETER	BAR SIZE
ROUND PIPE	12" – 24"	3/4"	5/8"	5/8"
	27' – 48"	7/8"	3/4"	3/4"
	54" – 90"	1 1/8"	1"	1"
ARCH PIPE	22" – 29"	3/4"	5/8"	5/8"
	36" – 59"	7/8"	3/4"	3/4"
	65" – 85"	1 1/8"	1"	1"

BOLT LENGTH = PIPE WALL THICKNESS + 2 1/2"

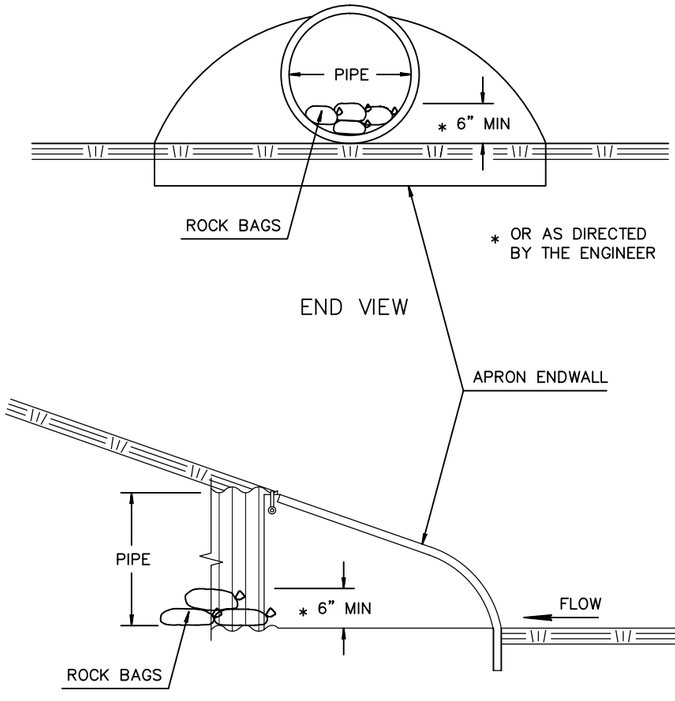




SECTION A-A

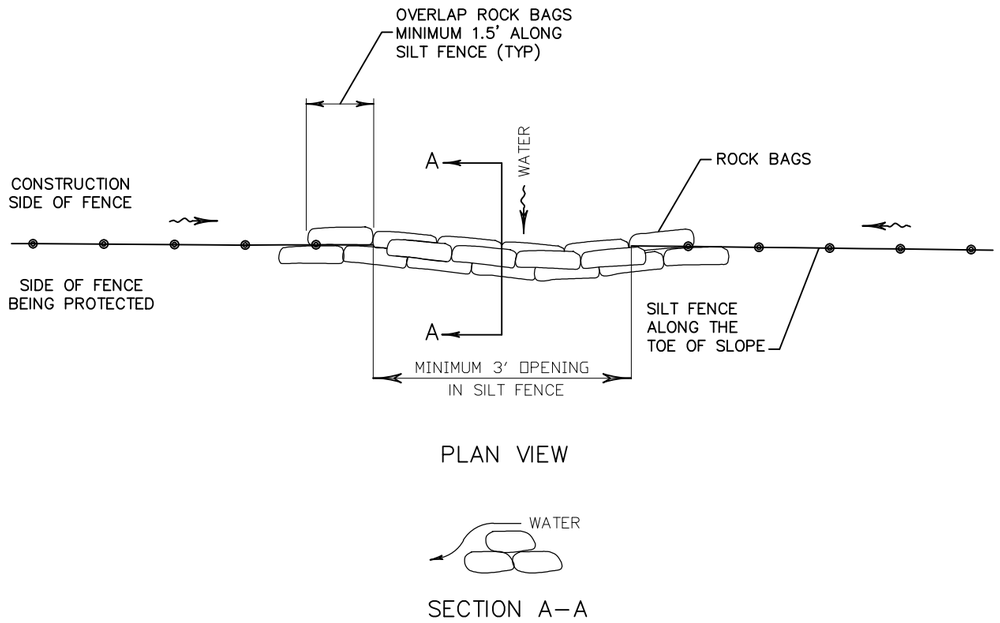
MAINTENANCE OPENING

LOCATIONS SHOWN ON PAVING DETAILS

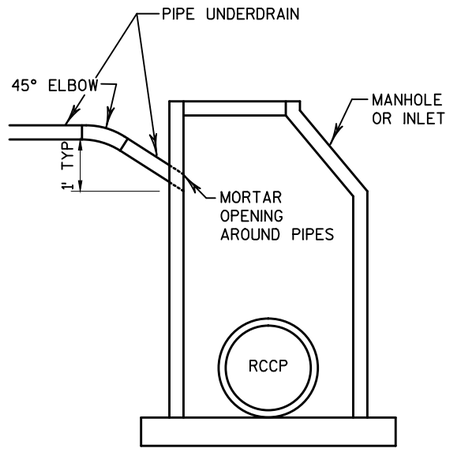


CULVERT PIPE CHECK

ROCK BAGS

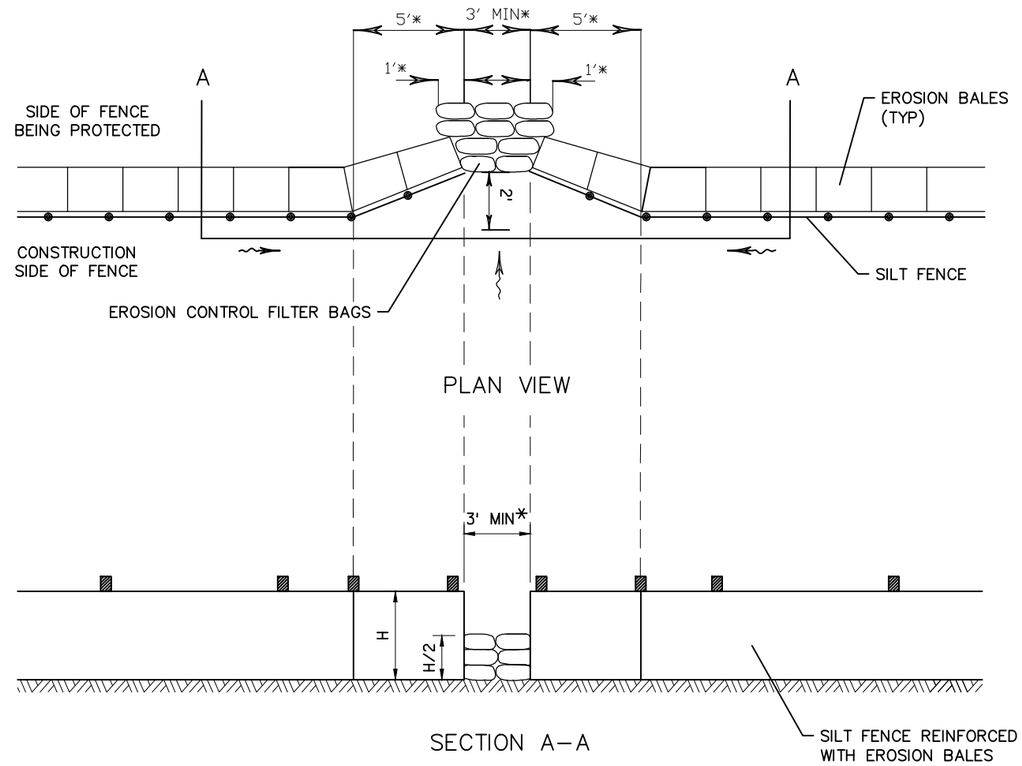


SILT FENCE DRAINAGE OUTLET, ROCK BAGS



PIPE UNDERDRAIN CONNECTION TO MANHOLES AND INLETS

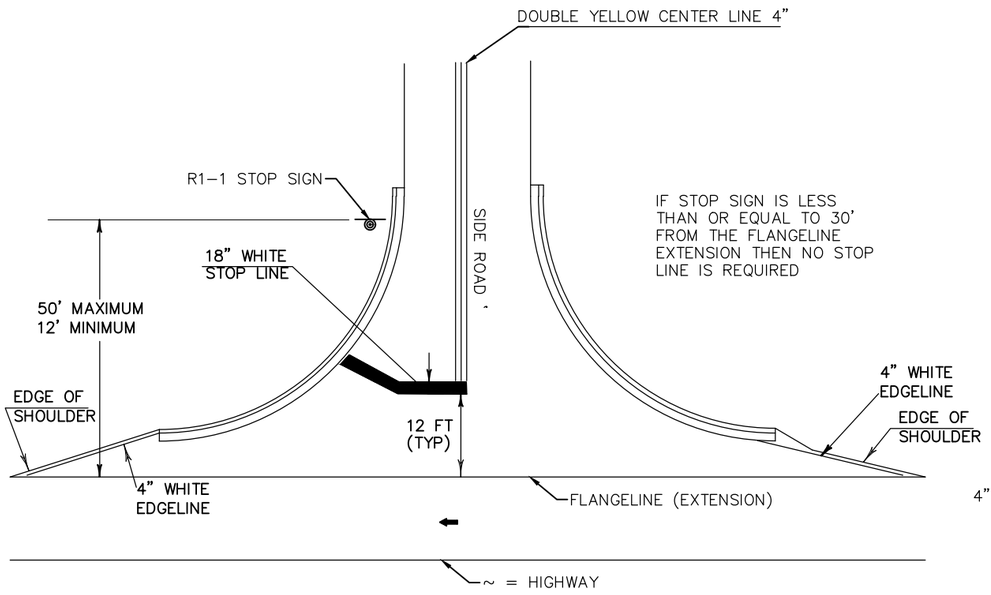
(UNDERDRAIN IN EBS AREAS)



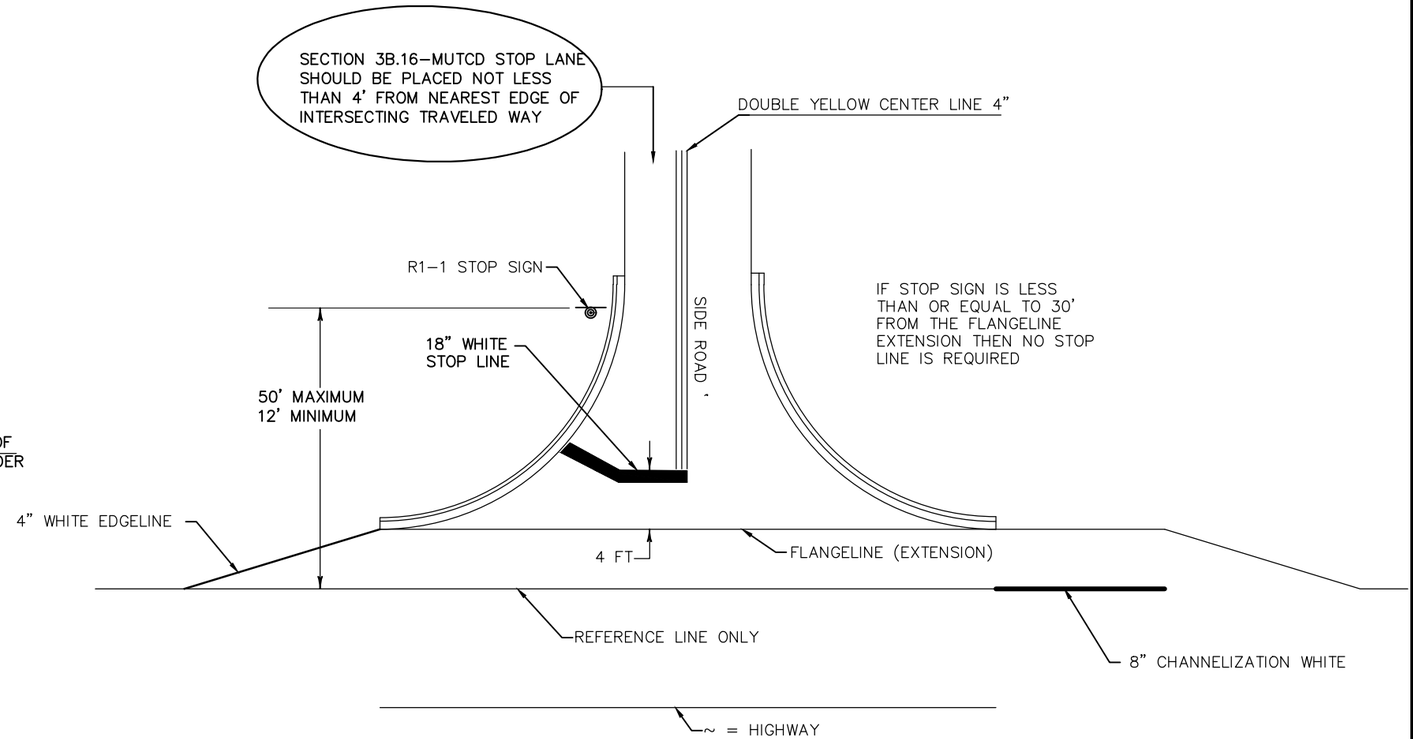
* DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

SILT FENCE DRAINAGE OUTLET, EROSION CONTROL FILTER BAGS

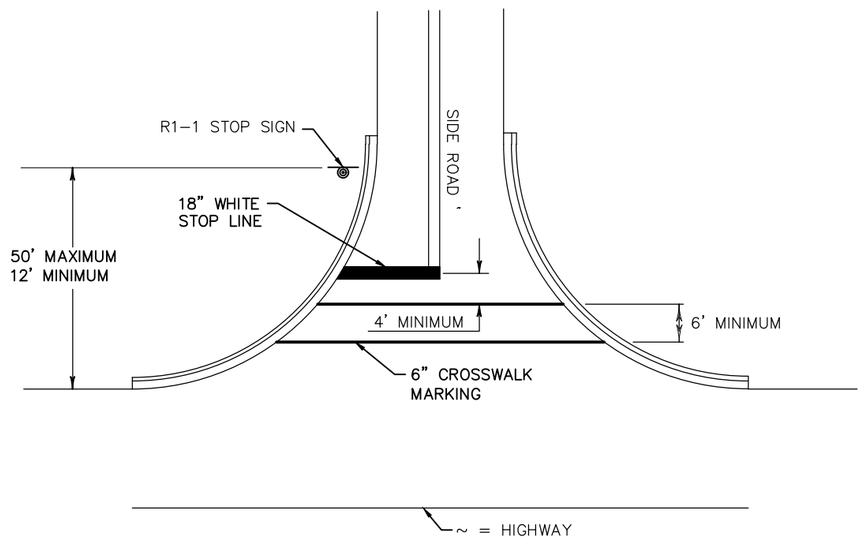
(FOR USE IN ENVIRONMENTALLY SENSITIVE AREAS)



TYPICAL PAVEMENT MARKING FOR SIDEROADS



TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE

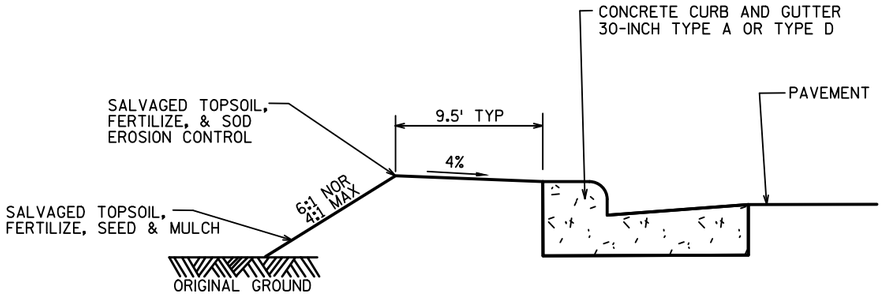


TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

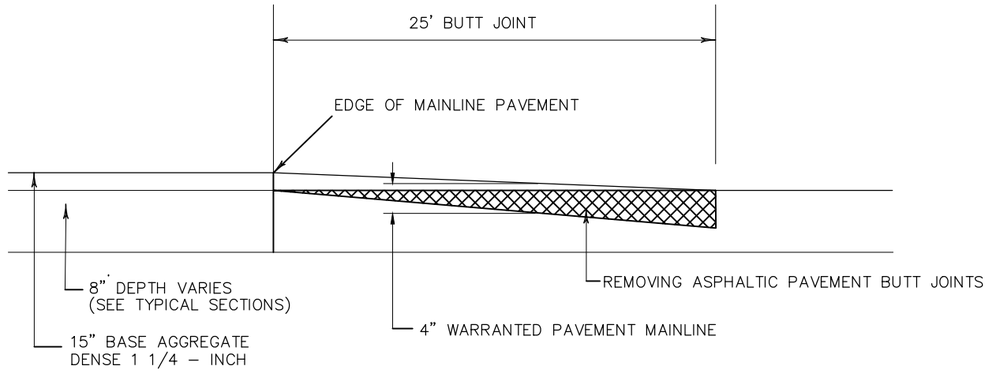
NOTES:
18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

STOP LINES REQUIRED WHERE:

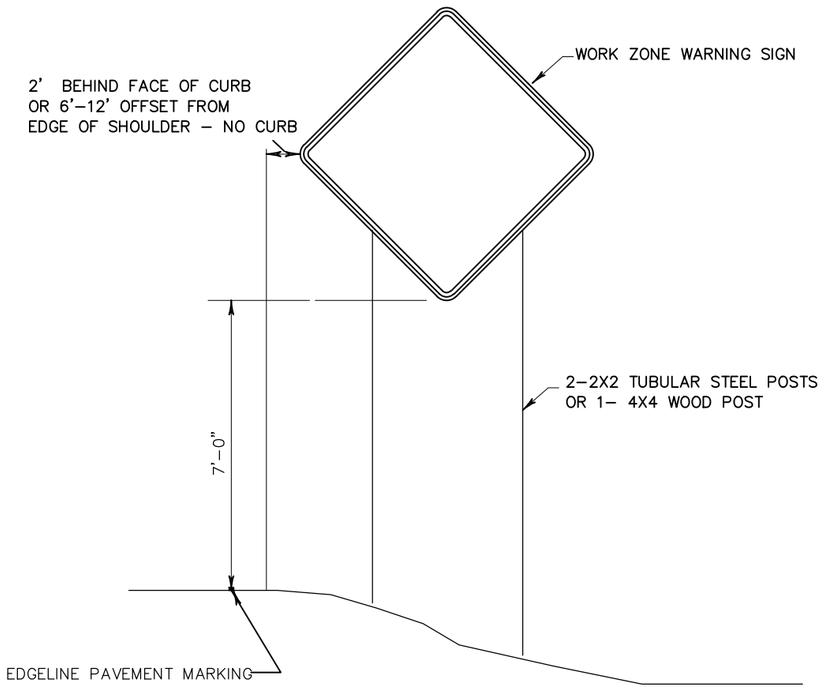
- CROSSWALK MARKINGS EXIST OR BEING PROVIDED
- LARGE RADII
- OFFSET LEFT TURNS WHERE STOP BAR FOR LEFT TURN IS SET BACK FROM THRU MOVEMENT.



TYPICAL PARTIAL SECTION AT INTERSECTION RADII

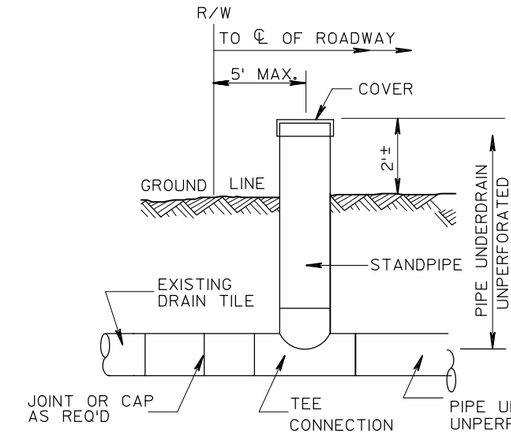


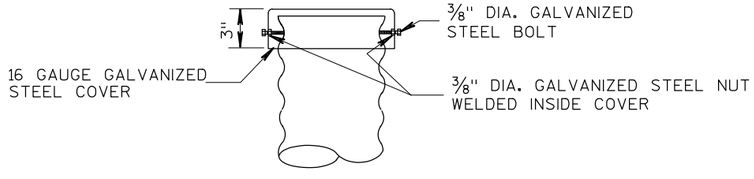
BUTT JOINTS
BEGIN CONSTRUCTION & END CONSTRUCTION



TYPICAL TEMPORARY TRAFFIC CONTROL DETAIL
MOUNTING ON FIXED SUPPORT

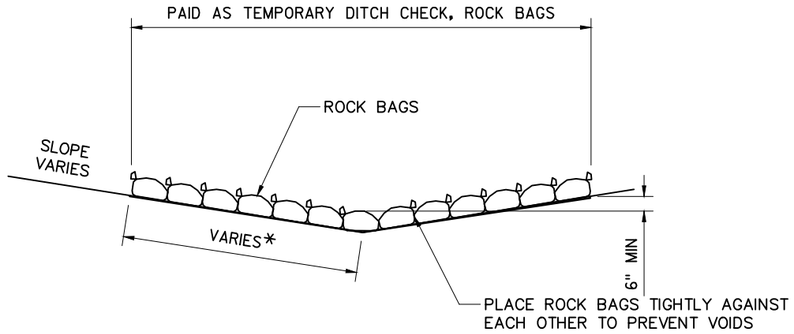
LONG TERM
7 DAYS OR MORE



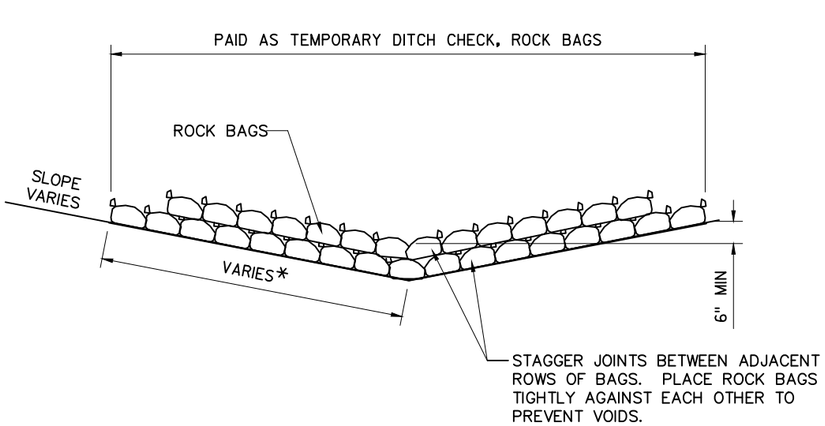


NOTE: THE COST OF FURNISHING AND INSTALLING THE CONNECTION TO THE UNDERDRAIN AND THE COVER SHALL BE CONSIDERED INCIDENTAL TO THE ITEM PIPE UNDERDRAIN, UNPERFORATED.

INSPECTION STANDPIPE AIR VENT DETAIL
FOR FIELD TILE



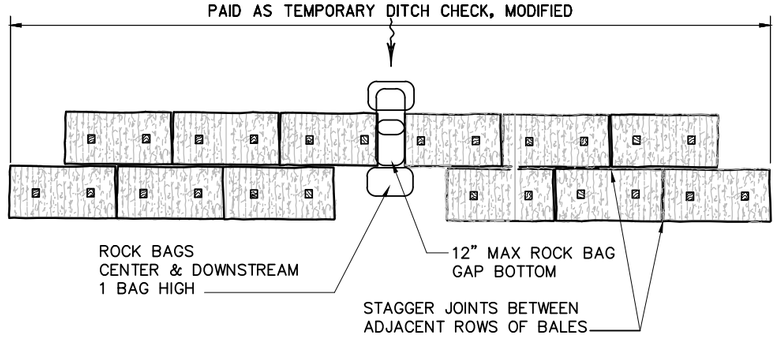
SIDE VIEW (SINGLE LAYER)



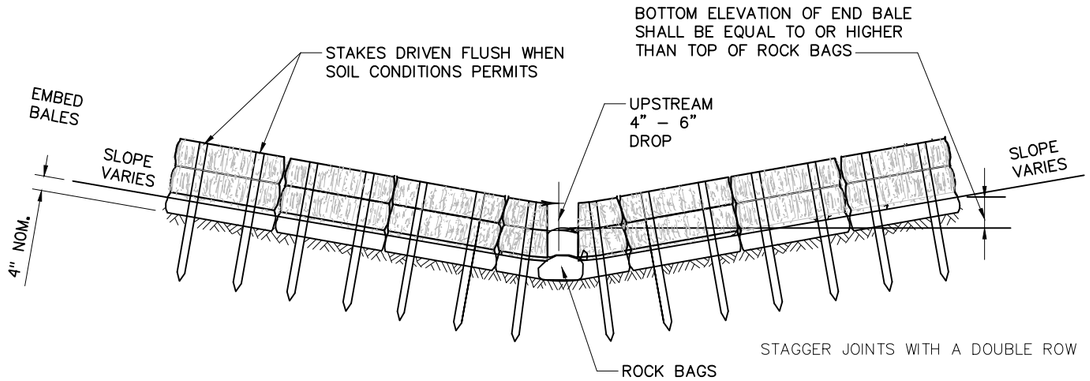
* LENGTH AND NUMBER OF BAGS MAY VARY DEPENDING ON DESIRED DEPTH OF WATER POOL.

SIDE VIEW (DOUBLE LAYER)

TEMPORARY DITCH CHECK, ROCK BAGS, SINGLE LAYER AND DOUBLE LAYER



PLAN VIEW

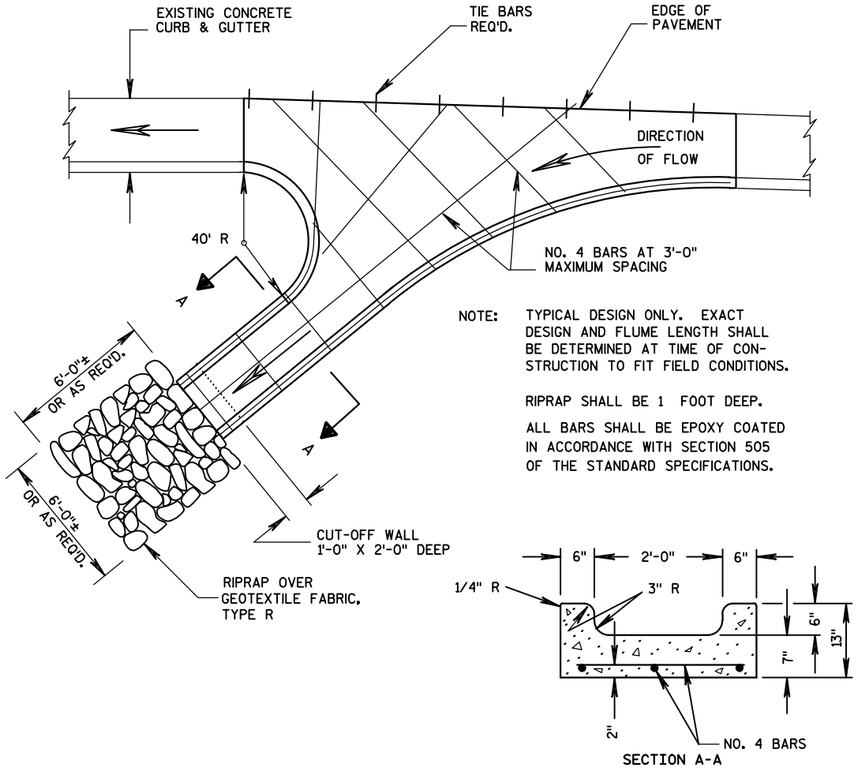


FRONT VIEW

NOTE

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.

TEMPORARY DITCH CHECK, MODIFIED

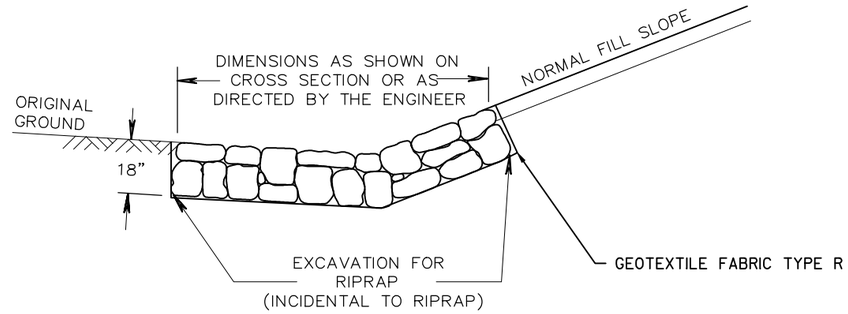


NOTE: TYPICAL DESIGN ONLY. EXACT DESIGN AND FLUME LENGTH SHALL BE DETERMINED AT TIME OF CONSTRUCTION TO FIT FIELD CONDITIONS.

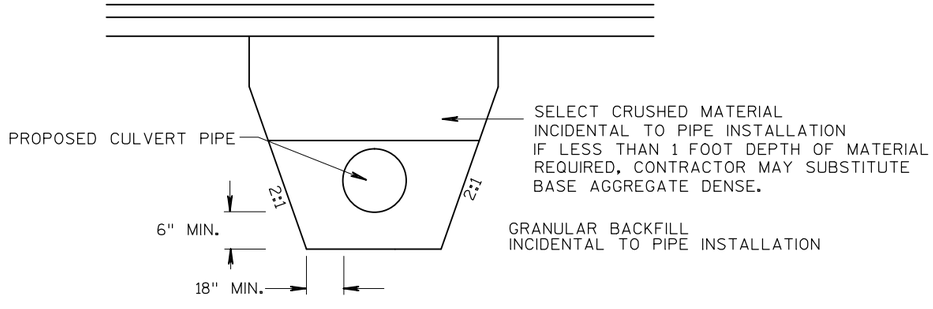
RIPRAP SHALL BE 1 FOOT DEEP.

ALL BARS SHALL BE EPOXY COATED IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS.

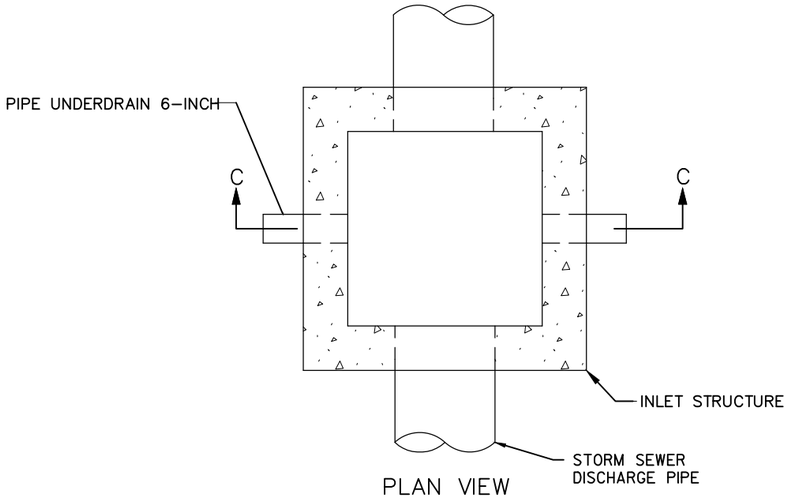
CONCRETE SURFACE DRAIN



DETAIL FOR RIPRAP IN DITCHES

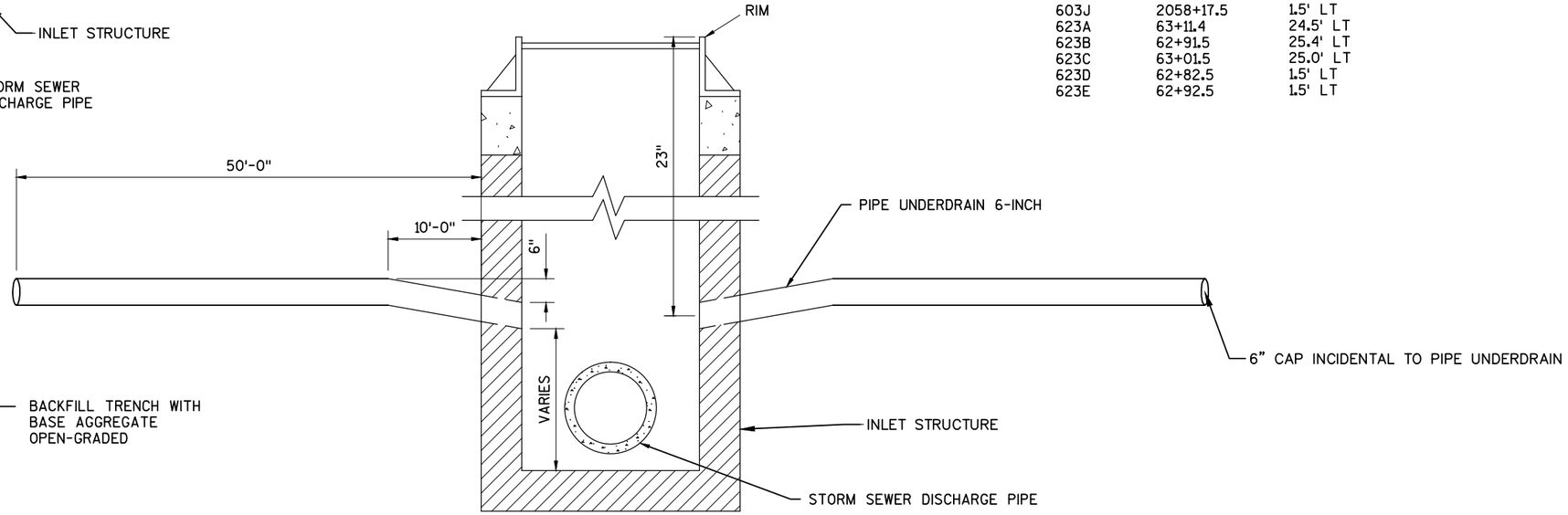


DETAIL FOR INSTALLATION OF PIPES

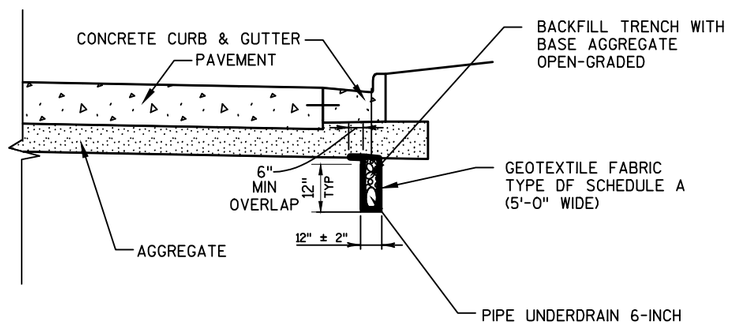


PLAN VIEW

STRUCTURE NO.	STATION	OFFSET
302C	3052+39.3	9.1' LT
302E	2052+29.4	7.8' LT
602B	4054+76.2	64.1' LT
602E	4054+67.5	30.5' LT
602F	4054+57.5	30.5' LT
602J	4054+65.3	25.5' RT
602K	4054+75.2	24.2' RT
603E	2058+42.5	30.5' LT
603F	2058+32.5	30.5' LT
603G	2058+16.2	36.6' RT
603H	2058+06.4	34.7' RT
603I	2058+07.5	1.5' LT
603J	2058+17.5	1.5' LT
623A	63+11.4	24.5' LT
623B	62+91.5	25.4' LT
623C	63+01.5	25.0' LT
623D	62+82.5	1.5' LT
623E	62+92.5	1.5' LT



SECTION C–C

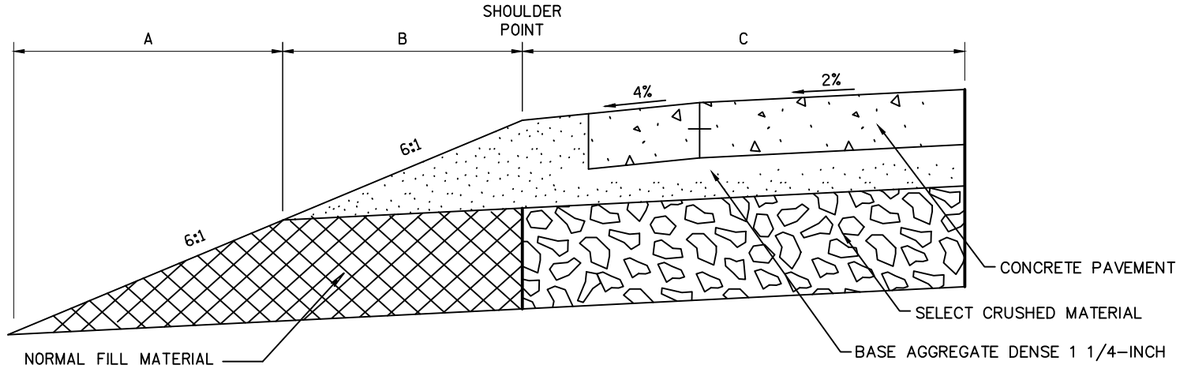


CURB & GUTTER SECTION

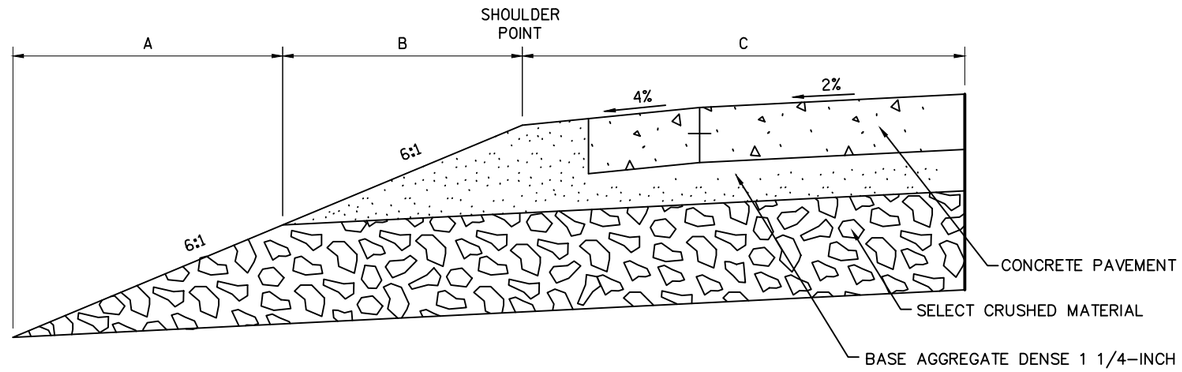
NOTES

1. PROVIDE TWO 6" DIA. OPENINGS FOR UNDERDRAIN PIPE A MINIMUM OF 23" BELOW THE RIM ELEVATION.

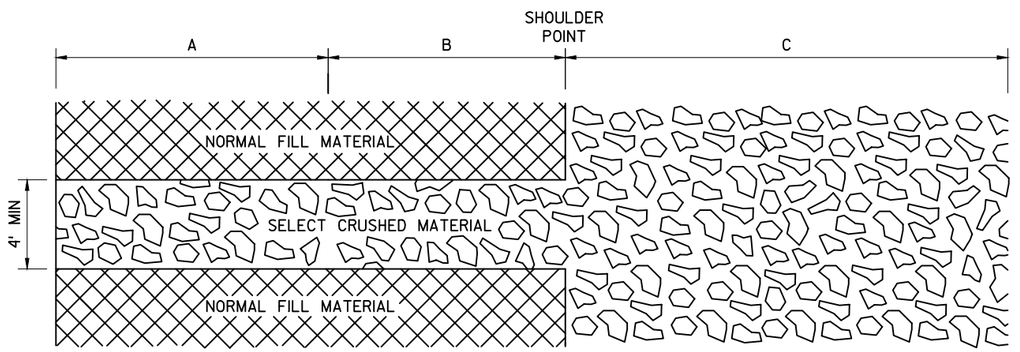
PIPE UNDERDRAIN AT SAG POINTS



TYPICAL HALF SECTION WITHOUT RELIEF TRENCH

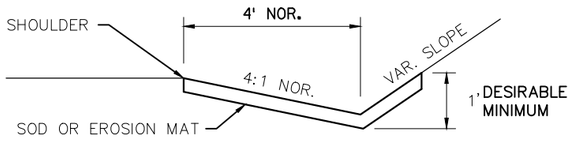


TYPICAL HALF SECTION WITH RELIEF TRENCH

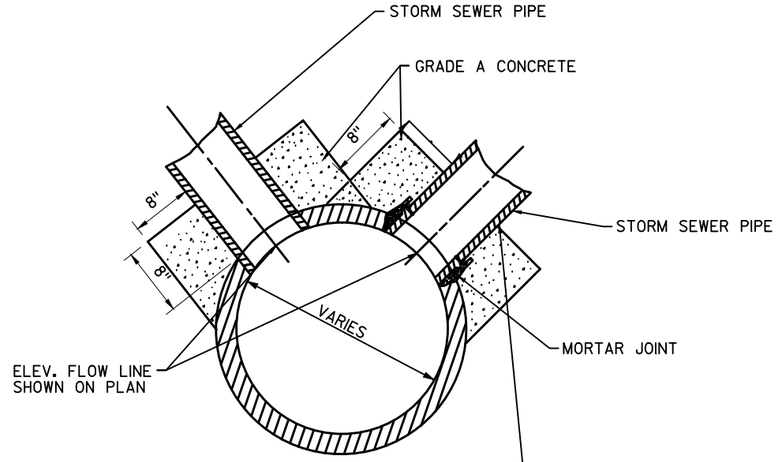


RELIEF TRENCH PLAN VIEW

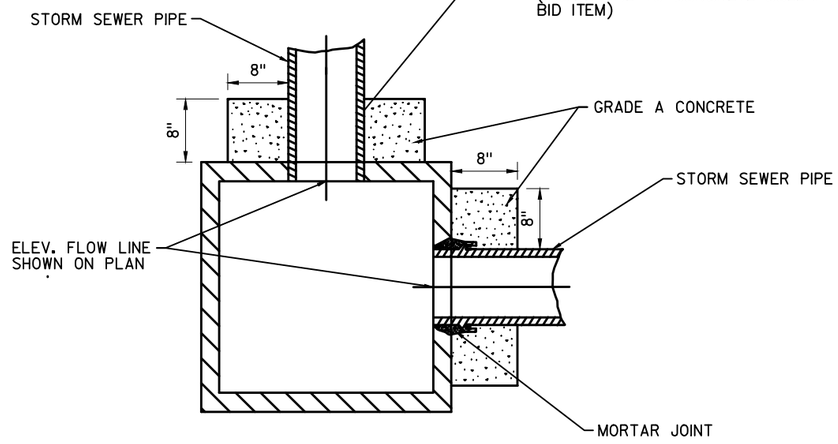
RELIEF TRENCH



SOD OR EROSION MAT DETAIL FOR DITCHES



AT MANHOLE

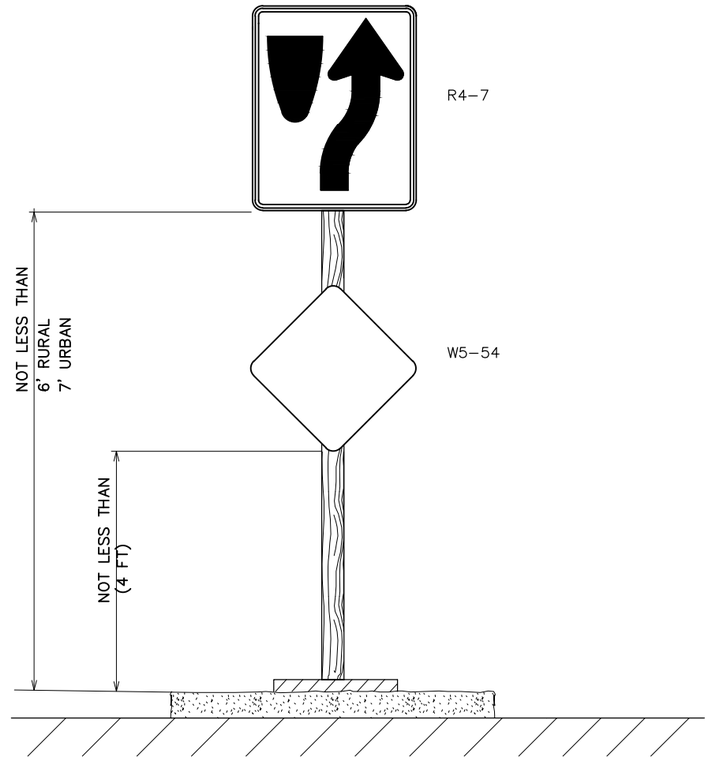


AT STORM SEWER INLET

CONCRETE COLLAR DETAIL

FOR LOCATIONS SEE MISCELLANEOUS QUANTITIES SHEETS

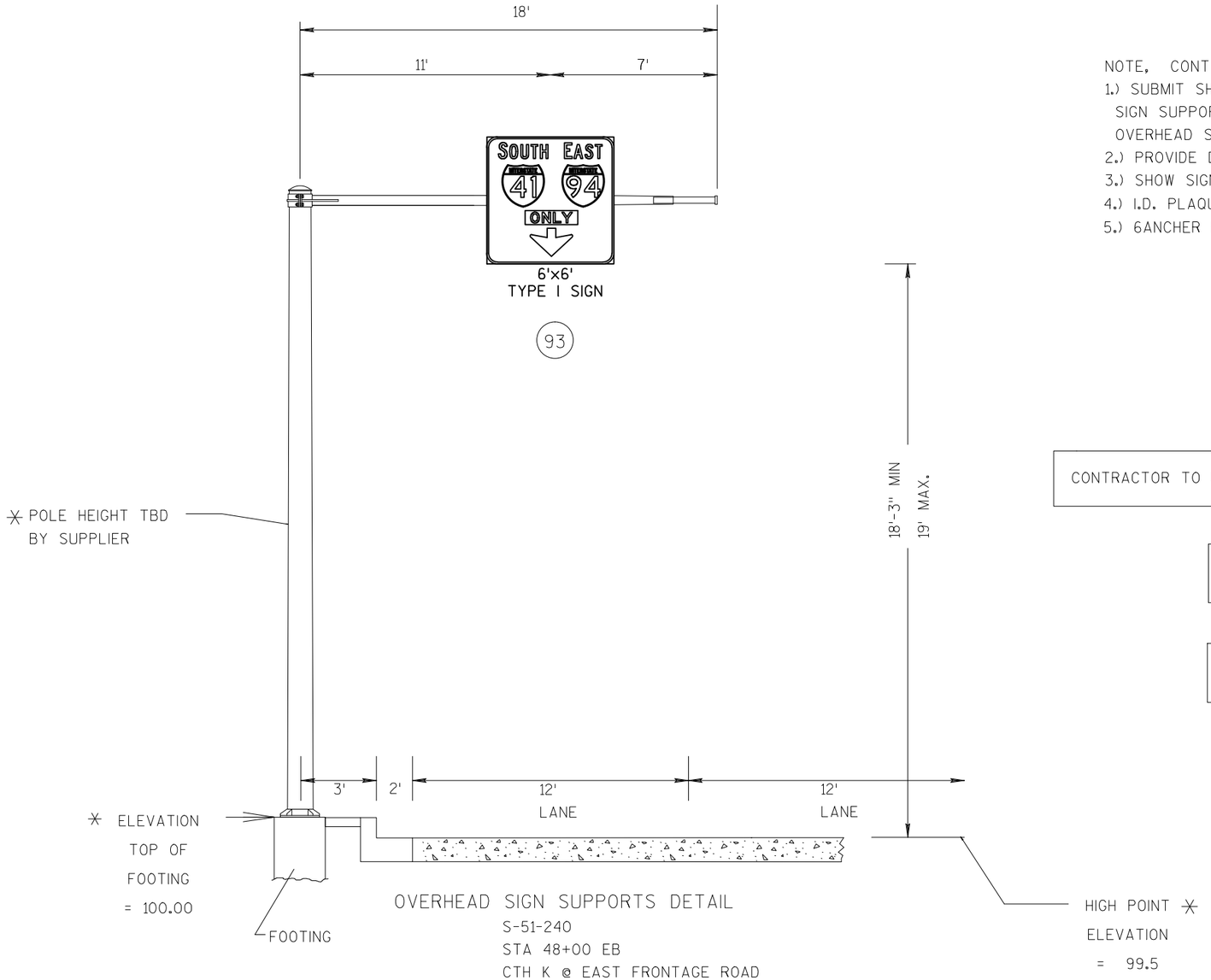
2



TYPICAL INSTALLATION FOR
TRANSITION TO DIVIDED HIGHWAY
OR OTHER SPECIAL NEEDS AREAS

PROJECT NO:1030-11-71	HWY:141 / 94 @ CTH K	COUNTY:RACINE	TYPICAL DETAIL - SIGN ON MEDIAN NOSE	SHEET 36	E

2



OVERHEAD SIGN SUPPORTS DETAIL
S-51-240
STA 48+00 EB
CTH K @ EAST FRONTAGE ROAD

NOTE, CONTRACTOR SHALL:
1.) SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.
2.) PROVIDE DESIGN CALCULATIONS.
3.) SHOW SIGNS ON SHOP DRAWINGS.
4.) I.D. PLAQUE INCIDENTAL TO SIGN SUPPORT
5.) 6ANCHER RODS SHALL BE USED PER SDD

CONTRACTOR TO USE SDD 36" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

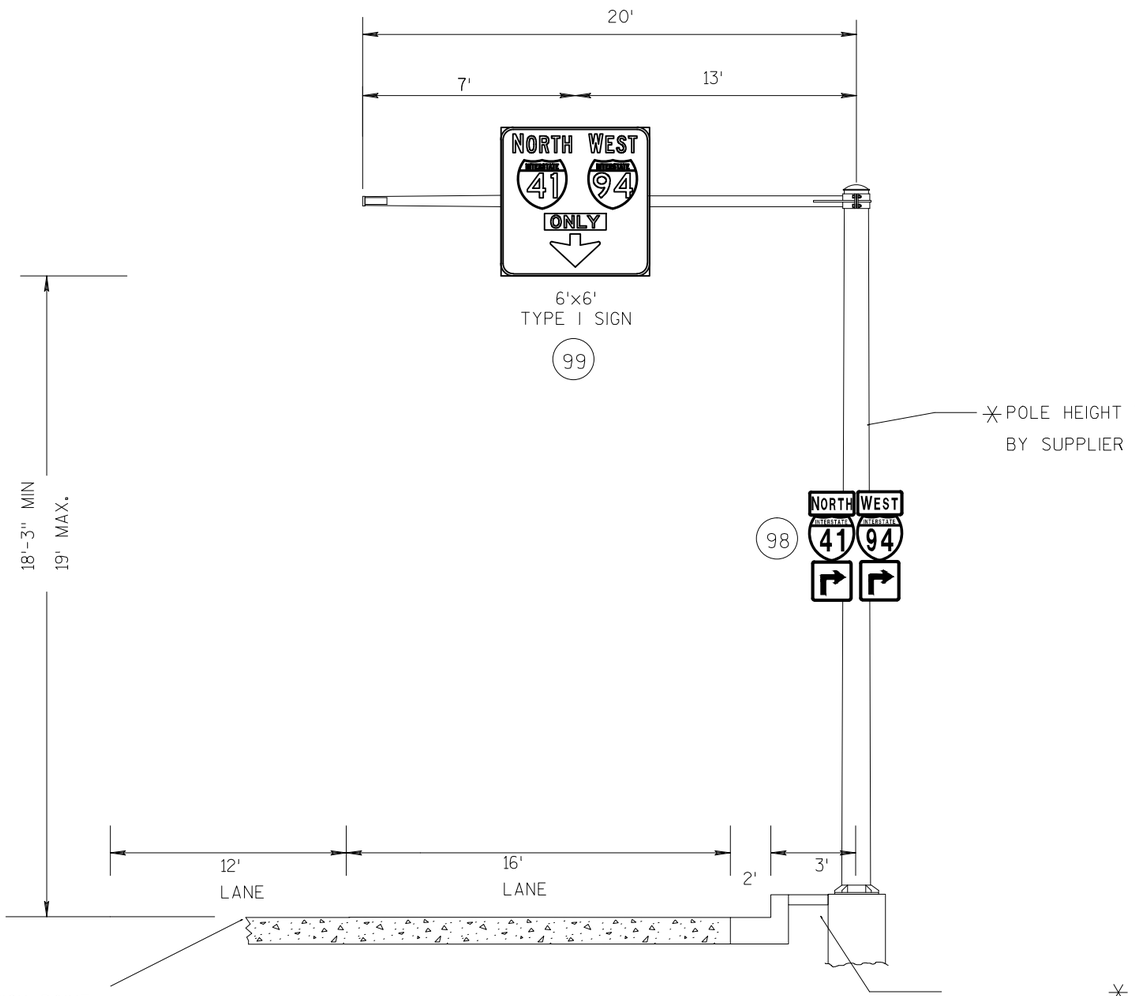
MOUNTING BRACKETS FOR SIGNS TO BE APPROVED FROM PRODUCT LIST FOR TYPE II SIGNS

I BEAMS - W5X3.7 I BEAMS FOR MOUNTING SINGS ARE INCIDENTAL TO TYPE I SIGNS

SHEET 1 OF 3

PROJECT NO:1030-11-71	HWY:141 / 94 @ CTH K	COUNTY:RACINE	OVERHEAD SIGN SUPPORT S-51-240	SHEET 37	E

2



OVERHEAD SIGN SUPPORTS DETAIL

S-51-217
CTH K WEST BOUND @ I-94
STATION 50+00WB

NOTE, CONTRACTOR SHALL:
1.) SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.
2.) PROVIDE DESIGN CALCULATIONS.
3.) SHOW SIGNS ON SHOP DRAWINGS.
4.) I.D. PLAQUE INCIDENTAL TO SIGN SUPPORT
5.) 6ANCHER RODS SHALL BE USED PER SDD

CONTRACTOR TO USE SDD 36" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

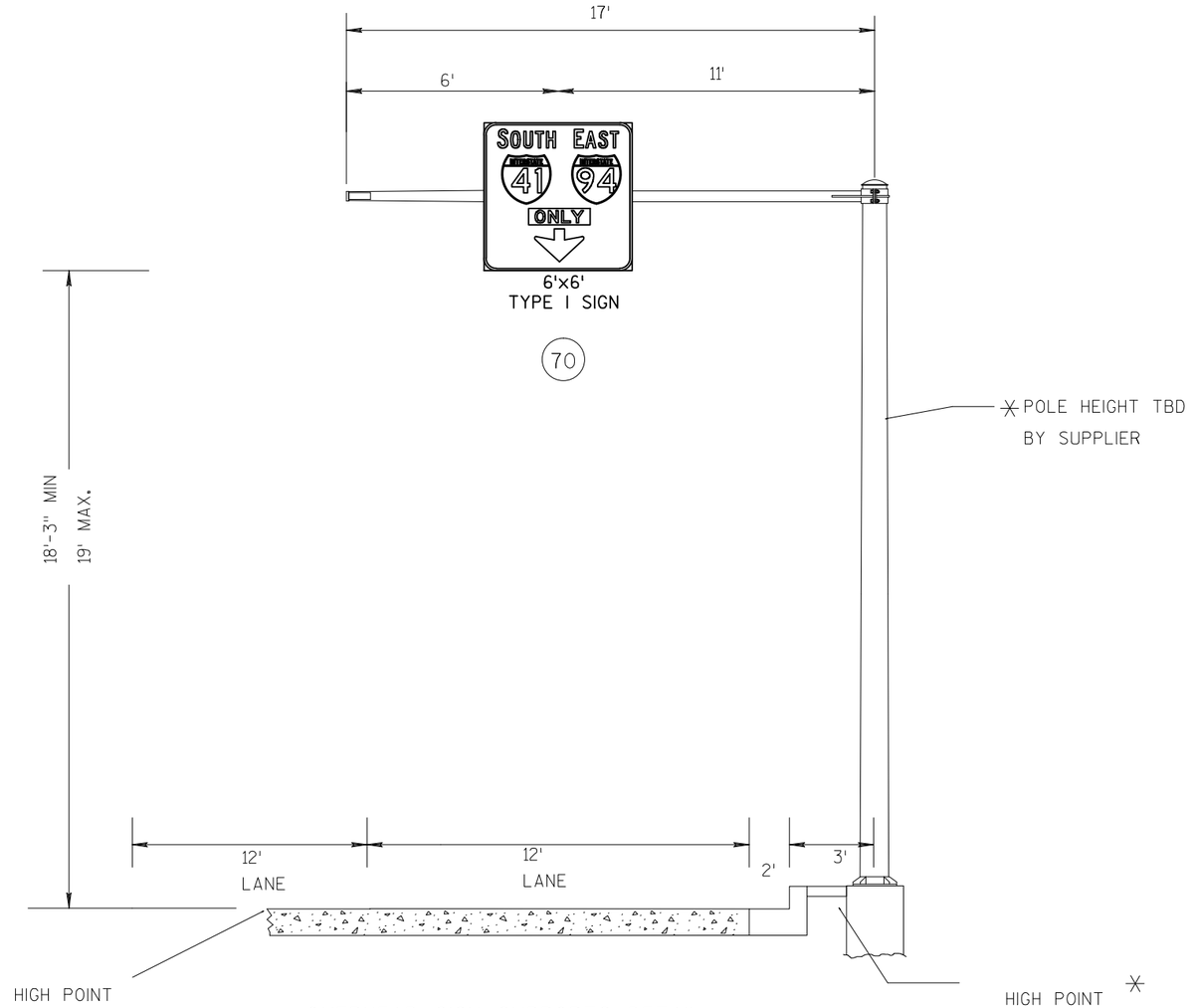
MOUNTING BRACKETS FOR SIGNS TO BE APPROVED FROM PRODUCT LIST FOR TYPE II SIGNS

I BEAMS - W5X3.7 I BEAMS FOR MOUNTING SINGS ARE INCIDENTAL TO TYPE I SIGNS

PROJECT NO:1030-11-71	HWY:141 / 94 @ CTH K	COUNTY:RACINE	OVERHEAD SIGN SUPPORT S-51-217	SHEET 38	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023401_PS.DWG
LAYOUT NAME - 023403_PS
PLOT DATE : 4/5/2017 1:18 PM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2



OVERHEAD SIGN SUPPORTS DETAIL

S-51-216
CTH K EAST BOUND @ I-94 SOUTH BOUND
STATION 37+00

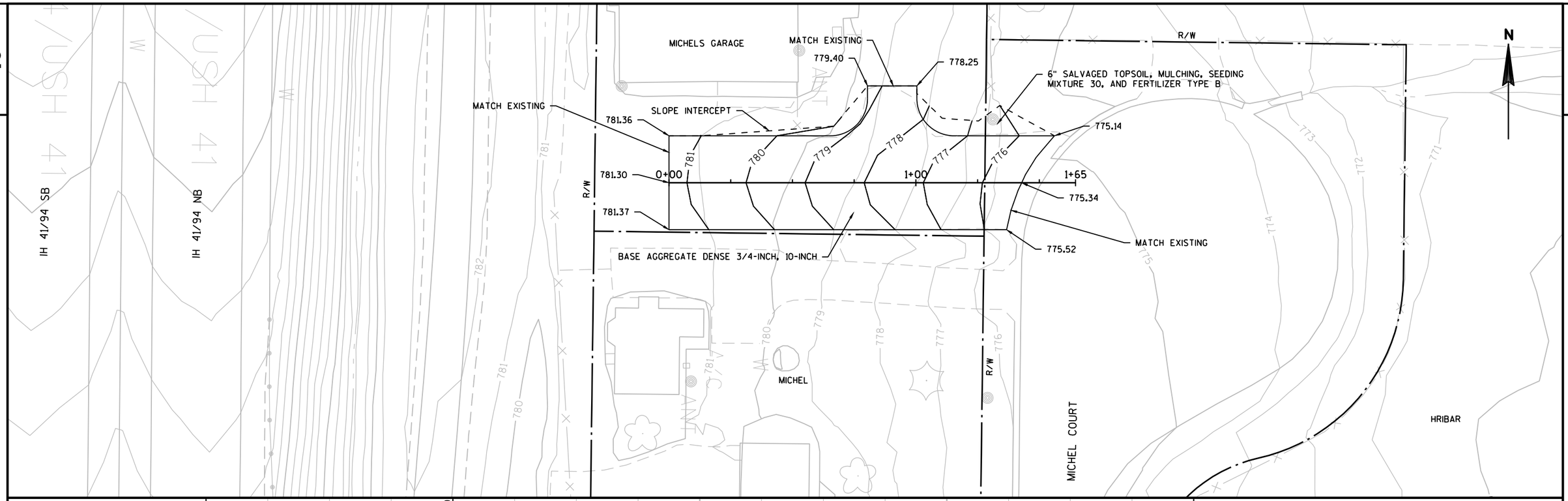
NOTE, CONTRACTOR SHALL:
1.) SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.
2.) PROVIDE DESIGN CALCULATIONS.
3.) SHOW SIGNS ON SHOP DRAWINGS.
4.) I.D. PLAQUE INCIDENTAL TO SIGN SUPPORT
5.) 6ANCHER RODS SHALL BE USED PER SDD

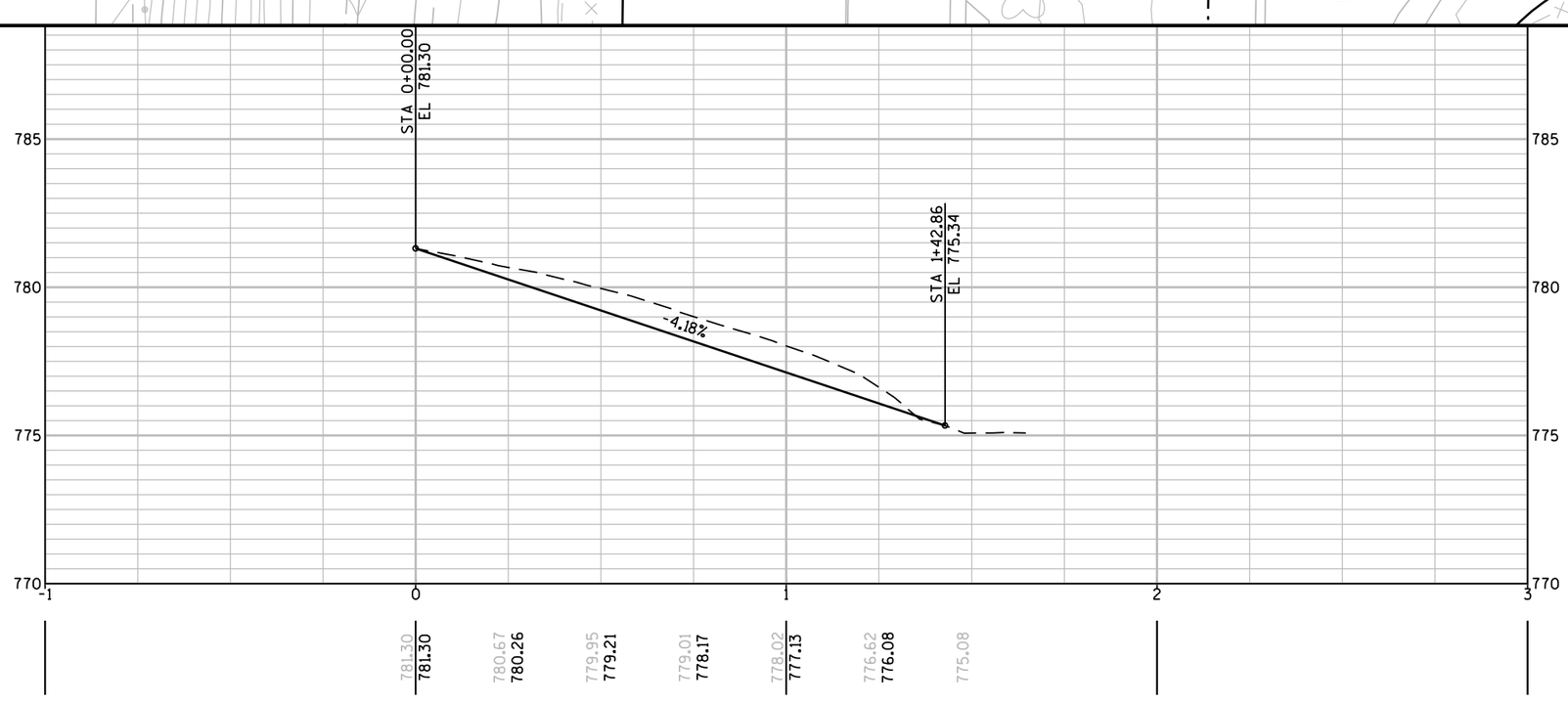
CONTRACTOR TO USE SDD 36" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

I BEAMS - W5X3.7 I BEAMS FOR MOUNTING SINGS ARE INCIDENTAL TO TYPE I SIGNS

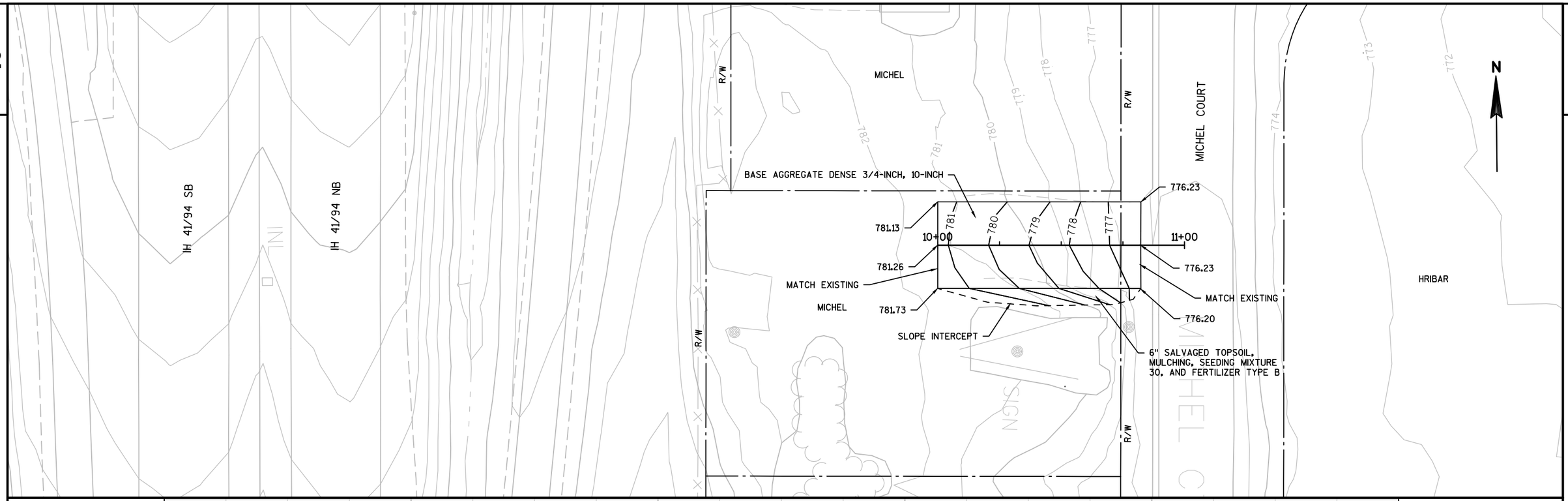
PROJECT NO:1030-11-71	HWY:141 / 94 @ CTH K	COUNTY:RACINE	OVERHEAD SIGN SUPPORT S-51-216	SHEET 39	E

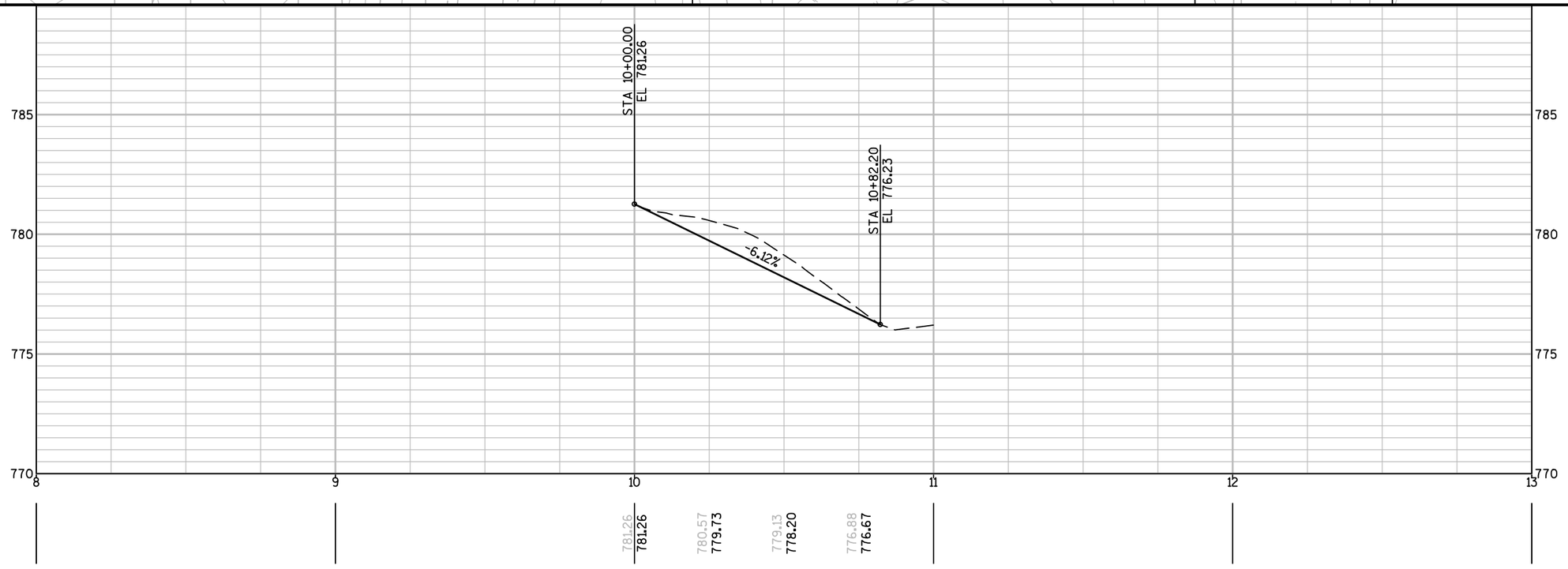
FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023401_PS.DWG
LAYOUT NAME - 023404_PS
PLOT DATE : 4/5/2017 1:18 PM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42





PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CONSTRUCTION DETAIL: MICHELS GARAGE DRIVEWAY	SHEET 40	E





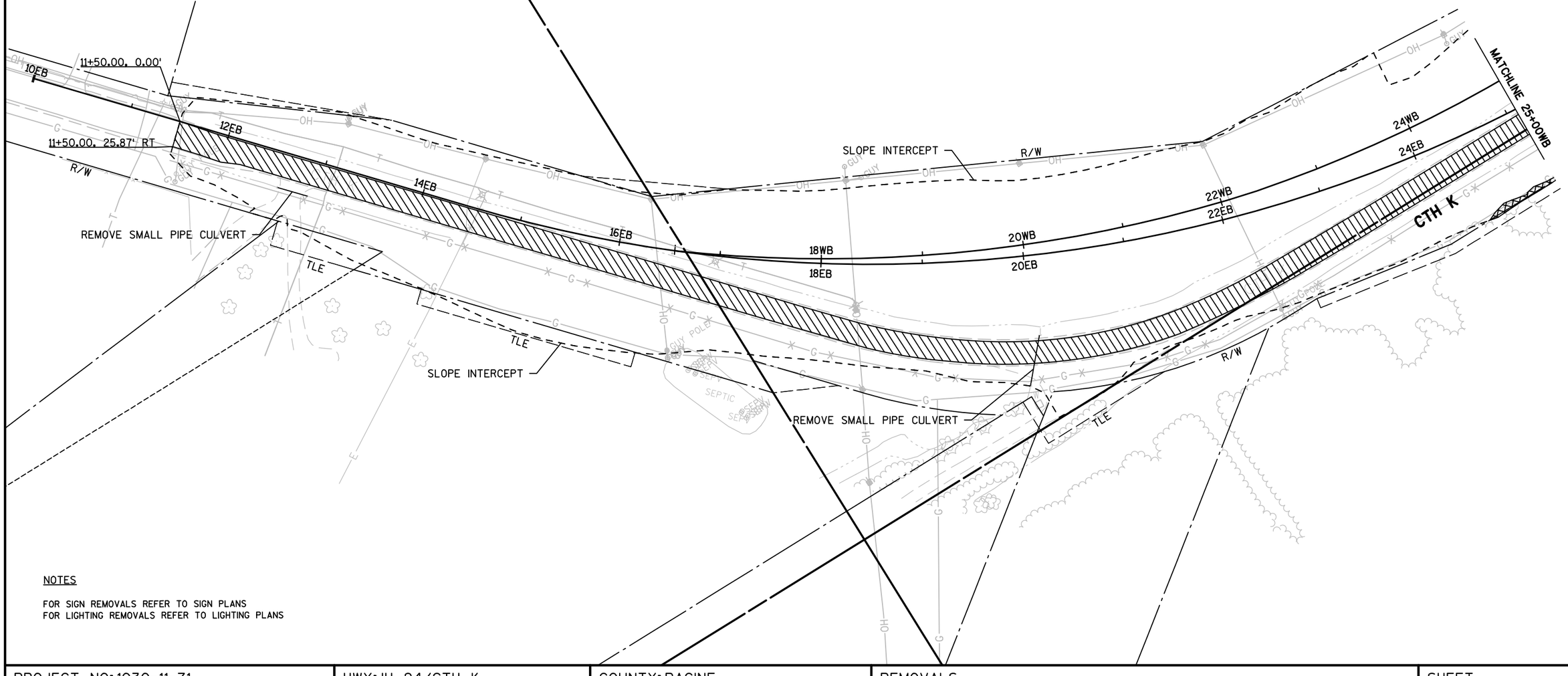
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CONSTRUCTION DETAIL: MICHEL - SOUTH DRIVEWAY	SHEET 41	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\021002_CD.DWG
LAYOUT NAME - 021011
PLOT DATE : 11/18/2016 11:08 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

2

LEGEND

- X — CLEARING AND GRUBBING (ID)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING MANHOLES
- REMOVING INLETS
- RM — REMOVING STORM SEWER
- SLOPE INTERCEPT



NOTES

FOR SIGN REMOVALS REFER TO SIGN PLANS
FOR LIGHTING REMOVALS REFER TO LIGHTING PLANS

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	REMOVALS	SHEET 42	E

LEGEND

- X — CLEARING AND GRUBBING (ID)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING MANHOLES
- REMOVING INLETS
- RM — REMOVING STORM SEWER
- SLOPE INTERCEPT

WEST FRONTAGE ROAD

FUHRMAN DRIVE

SEPTIC TANKS AND BED

N

R/W

TLE

SLOPE INTERCEPT

REMOVE DRIVE

REMOVE SMALL PIPE CULVERT

REMOVE SMALL PIPE CULVERT

REMOVING STORM SEWER

REMOVE SMALL PIPE CULVERT

SLOPE INTERCEPT

REMOVE SMALL PIPE CULVERT

REMOVE SMALL PIPE CULVERT

CTH K

MATCHLINE 25+00WB

MATCHLINE 40+00WB

26WB 28WB 30WB 32WB 34WB 36WB 38WB

26EB 28EB 30EB 32EB 34EB 36EB 38EB

38+00.00, 4.05' RT

38+00.00, 26.79' RT

4056 4054 2058 2056

FRONTAGE RD

GUY POLE

CANOPY

SIGN

NOTES

FOR SIGN REMOVALS REFER TO SIGN PLANS
FOR LIGHTING REMOVALS REFER TO LIGHTING PLANS

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	REMOVALS	SHEET 43	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\021201_RM.DWG
LAYOUT NAME - 021102

PLOT DATE : 3/20/2017 7:37 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- X — CLEARING AND GRUBBING (ID)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING MANHOLES
- REMOVING INLETS
- RM — REMOVING STORM SEWER
- SLOPE INTERCEPT

IH 41/94 SB

IH 41/94 NB

SLOPE INTERCEPT

TLE

46+67.53, -30.53' LT

CTH K

42WB

44WB

46WB

48WB

50WB

52WB

54WB

45+75.00, -8.00' LT

46+67.53, -9.88' LT

45+75.02, -6.07' LT

WB

EB

42EB

44EB

46EB

48EB

50EB

52EB

54EB

MATCHLINE 40+00WB

MATCHLINE 54+50WB

SLOPE INTERCEPT

TLE

REMOVE SMALL PIPE CULVERT

+93.62
-44.11'

+85.56
-44.11'

REMOVING CONCRETE
MEDIAN SLOPED NOSE

+88.18
-14.63'

+81.14
-21.01'

R/W

EAST FRONTAGE ROAD

FRONTAGE RD

5054

5052

3056

3054

3052

CANOPY

FILLER CAPS

N

3046

3048

3050

EAST FRONTAGE ROAD

REMOVE CURB AND GUTTER FOR TEMPORARY WIDENING

+80.55
0.00'

+60.42
0.42'

MATCHLINE 3051+00

SEAL OPENINGS IN MANHOLE
(INCIDENTAL TO REMOVING STORM SEWER PIPE)

MATCHLINE 3051+00

NOTES

FOR SIGN REMOVALS REFER TO SIGN PLANS
FOR LIGHTING REMOVALS REFER TO LIGHTING PLANS

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	REMOVALS	SHEET 44	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\021201_RM.DWG
LAYOUT NAME - 021103

PLOT DATE : 3/20/2017 6:52 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- X — CLEARING AND GRUBBING (ID)
- ⊠ — CLEARING AND GRUBBING (STA.)
- ▨ — REMOVING PAVEMENT
- ıı ıı ıı — REMOVING CURB AND GUTTER
- ⊠ — REMOVING MANHOLES
- ⊠ — REMOVING INLETS
- —RM— REMOVING STORM SEWER
- – – – SLOPE INTERCEPT

CAROL ROAD

ADAMS RD

CTH K

MATCHLINE 54+50WB

MATCHLINE 69+50WB

56WB 58WB 60WB 62WB 64WB 66WB 68WB

56EB 58EB 60EB 62EB 64EB 66EB 68EB

R/W

TLE

REMOVE WOODEN BOLLARDS

REMOVE SMALL PIPE CULVERT

SLOPE INTERCEPT

NOTES

FOR SIGN REMOVALS REFER TO SIGN PLANS
FOR LIGHTING REMOVALS REFER TO LIGHTING PLANS

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	REMOVALS	SHEET 45	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\021201_RM.DWG
LAYOUT NAME - 021104

PLOT DATE : 12/13/2016 11:04 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:100 FT

LEGEND

- X — CLEARING AND GRUBBING (ID)
- CLEARING AND GRUBBING (STA.)
- REMOVING PAVEMENT
- REMOVING CURB AND GUTTER
- REMOVING MANHOLES
- REMOVING INLETS
- RM — REMOVING STORM SEWER
- SLOPE INTERCEPT

SLOPE INTERCEPT

REMOVE SMALL PIPE CULVERT

MATCHLINE 69+50WB

70WB

70EB

72WB

CTH K

74WB

76+00.00, -23.88' LT

76+00.00, 0.00'

76WB

78WB

80WB

82WB

R/W

SUNFLOWER DRIVE

REMOVE SMALL PIPE CULVERT

SLOPE INTERCEPT

NOTES

FOR SIGN REMOVALS REFER TO SIGN PLANS
FOR LIGHTING REMOVALS REFER TO LIGHTING PLANS

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	REMOVALS	SHEET 46	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\021201_RM.DWG
LAYOUT NAME - 021105

PLOT DATE : 12/13/2016 11:05 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:100 FT

2

LEGEND

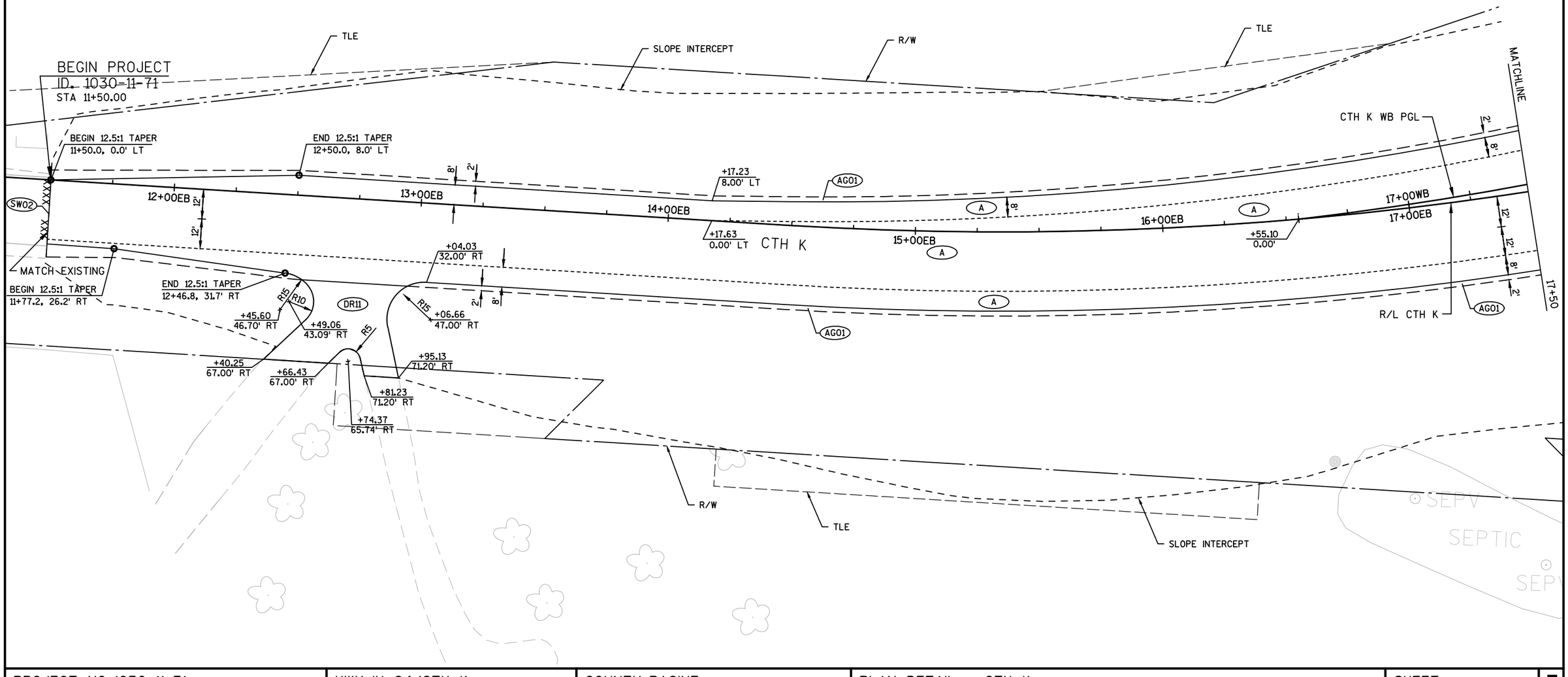
(A) HMA PAVEMENT 4 HT 58-28 S, 2-INCH OVER
HMA PAVEMENT 3 HT 58-28 S, 3-INCH OVER
HMA PAVEMENT 3 HT 58-28 S, 3-INCH

(AGO1) BASE AGGREGATE DENSE 3/4-INCH

(DR11) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 10-INCH

(SW02) SAWING CONCRETE

NOTE: SEE GENERAL NOTES FOR ADDITIONAL INFORMATION ON HMA PAVEMENT LAYERS.



PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - CTH K	SHEET 47	E

2

LEGEND

(A) HMA PAVEMENT 4 HT 58-28 S, 2-INCH OVER
HMA PAVEMENT 3 HT 58-28 S, 3-INCH OVER
HMA PAVEMENT 3 HT 58-28 S, 3-INCH

(AG01) BASE AGGREGATE DENSE 3/4-INCH

(CG21) CONCRETE CURB AND GUTTER 30-INCH TYPE D

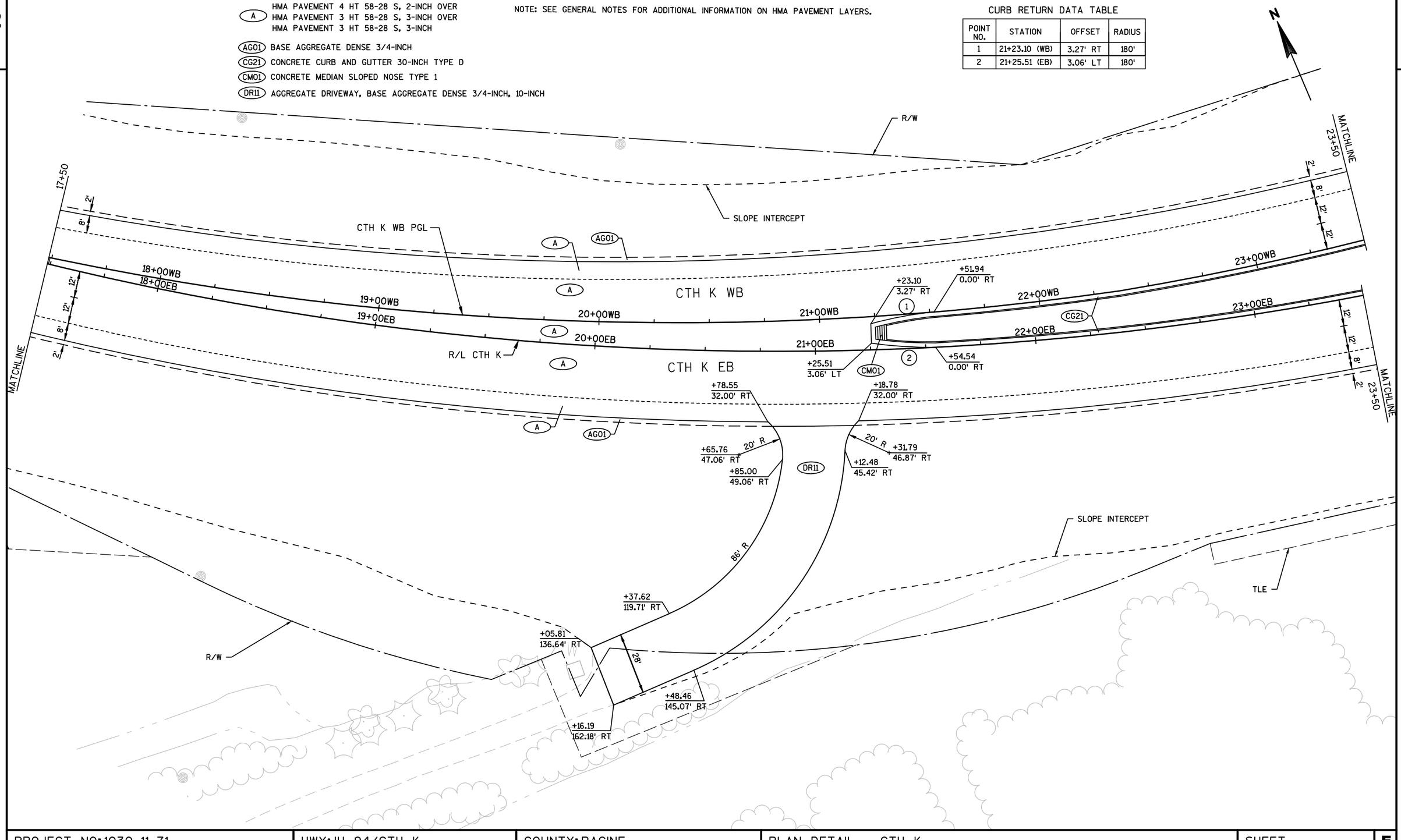
(CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1

(DR11) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 10-INCH

NOTE: SEE GENERAL NOTES FOR ADDITIONAL INFORMATION ON HMA PAVEMENT LAYERS.

CURB RETURN DATA TABLE

POINT NO.	STATION	OFFSET	RADIUS
1	21+23.10 (WB)	3.27' RT	180'
2	21+25.51 (EB)	3.06' LT	180'

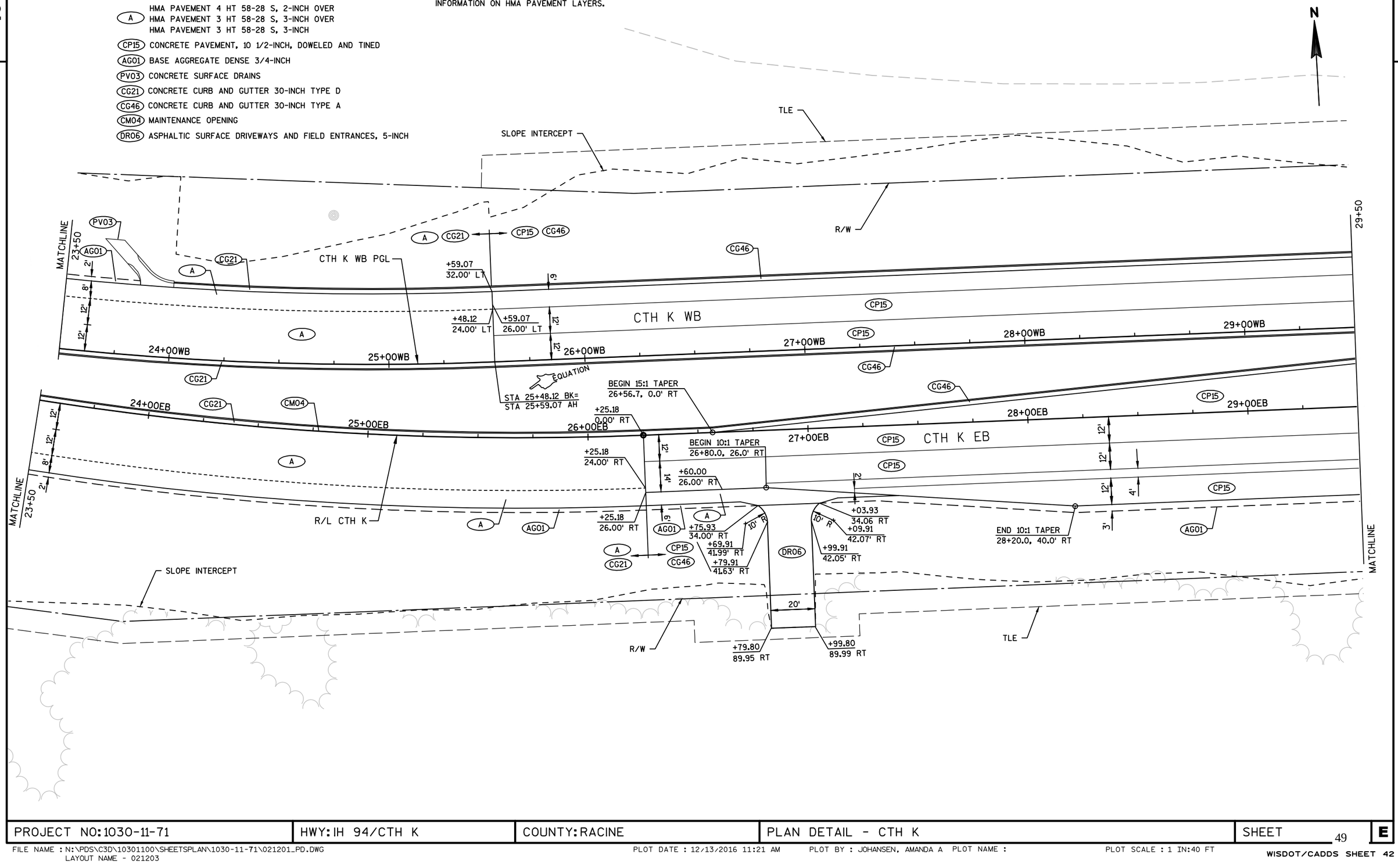


PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - CTH K	SHEET 48	E

LEGEND

- (A) HMA PAVEMENT 4 HT 58-28 S, 2-INCH OVER HMA PAVEMENT 3 HT 58-28 S, 3-INCH OVER HMA PAVEMENT 3 HT 58-28 S, 3-INCH
- (CP15) CONCRETE PAVEMENT, 10 1/2-INCH, DOWELED AND TINED
- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (PV03) CONCRETE SURFACE DRAINS
- (CG21) CONCRETE CURB AND GUTTER 30-INCH TYPE D
- (CG46) CONCRETE CURB AND GUTTER 30-INCH TYPE A
- (CM04) MAINTENANCE OPENING
- (DR06) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH

NOTE: SEE GENERAL NOTES FOR ADDITIONAL INFORMATION ON HMA PAVEMENT LAYERS.

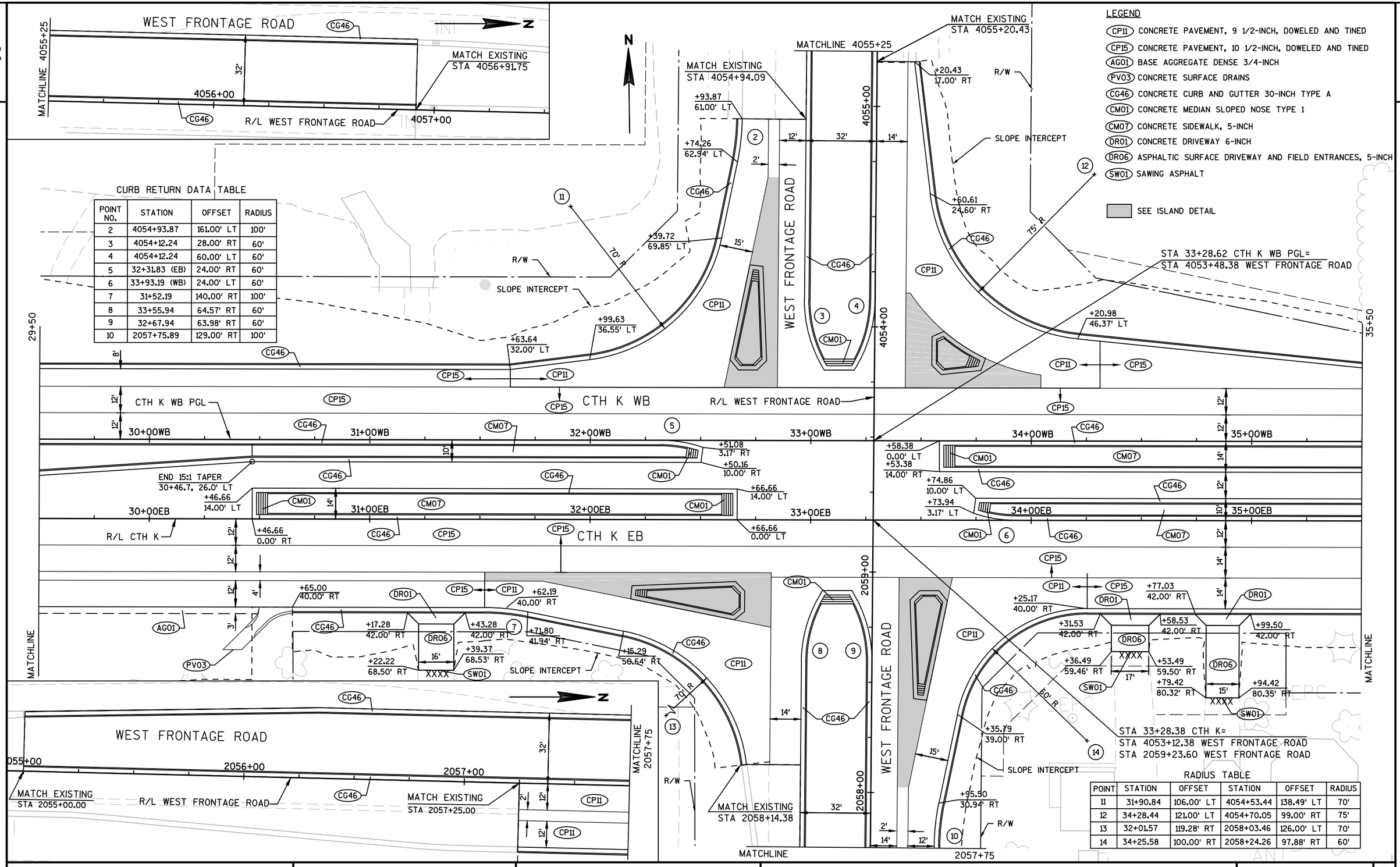


PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - CTH K	SHEET 49	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\021201_PD.DWG
LAYOUT NAME - 021203

PLOT DATE : 12/13/2016 11:21 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



CURB RETURN DATA TABLE

POINT NO.	STATION	OFFSET	RADIUS
2	4054+93.87	161.00' LT	100'
3	4054+12.24	28.00' RT	60'
4	4054+12.24	60.00' LT	60'
5	32+31.83 (EB)	24.00' RT	60'
6	33+93.19 (WB)	24.00' LT	60'
7	31+52.19	140.00' RT	100'
8	33+55.94	64.57' RT	60'
9	32+67.94	63.98' RT	60'
10	2057+75.89	129.00' RT	100'

LEGEND

- CP11 CONCRETE PAVEMENT, 9 1/2-INCH, DOWELED AND TINED
- CP15 CONCRETE PAVEMENT, 10 1/2-INCH, DOWELED AND TINED
- AG01 BASE AGGREGATE DENSE 3/4-INCH
- PV03 CONCRETE SURFACE DRAINS
- CG46 CONCRETE CURB AND GUTTER 30-INCH TYPE A
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM07 CONCRETE SIDEWALK, 5-INCH
- DR01 CONCRETE DRIVEWAY 6-INCH
- DR06 ASPHALTIC SURFACE DRIVEWAY AND FIELD ENTRANCES, 5-INCH
- SW01 SAWING ASPHALT

SEE ISLAND DETAIL

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
11	31+90.84	106.00' LT	4054+53.44	138.49' LT	70'
12	34+28.44	121.00' LT	4054+70.05	99.00' RT	75'
13	32+01.57	119.28' RT	2058+03.46	126.00' LT	70'
14	34+25.58	100.00' RT	2058+24.26	97.88' RT	60'

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - CTH K	SHEET 50	E

2

ISLAND OFFSET TABLE

POINT	STATION	OFFSET	ELEV
A	32+19.02	30.00' RT	778.29
B	32+18.43	35.97' RT	778.20
C	32+65.93	28.00' RT	778.99
D	32+70.16	32.26' RT	778.98
E	32+70.09	41.59' RT	778.85
F	32+65.44	45.37' RT	778.76
G	4053+98.30	31.46' RT	780.02
H	4053+95.81	26.00' RT	780.01
I	4053+82.81	26.00' RT	780.18
J	4053+78.59	30.26' RT	780.28
K	33+77.12	32.00' LT	780.45
L	33+79.23	37.47' LT	780.40

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
1	34+15.75	114.23' LT	4054+63.20	86.36' RT	85'

N

2

CTH K WB

WEST FRONTAGE ROAD

4054+00

14'

4054+15.50
16.00' RT

85' R

1

G

H

CP11

CM02

CM01

L

I

J

CM05

K

CP11

34+04.33
30.00' LT

33+42.80
24.00' LT

12'

12'

32+00WB

33+00WB

34+00WB

CTH K WB PGL

R/L WEST FRONTAGE ROAD

32+00EB

33+00EB

34+00EB

R/L CTH K

12'

12'

CTH K EB

CTH K

MH

MH

MH

A

C

32+82.20
24.00' RT

4'

31+78.57
28.00' RT

CP11

CM01

CM05

CM02

CM02

D

E

B

15'

F

32+82.05
48.69' RT

2059+00

14'

LEGEND

CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1

CM02 CONCRETE MEDIAN SLOPED NOSE TYPE 2

CM05 CONCRETE SAFETY ISLAND

CP11 CONCRETE PAVEMENT 9 1/2-INCH, DOWELED AND TINED

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	ISLAND DETAILS	SHEET 51	E

LEGEND

CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1

CM02 CONCRETE MEDIAN SLOPED NOSE TYPE 2

CM05 CONCRETE SAFETY ISLAND

CP11 CONCRETE PAVEMENT 9 1/2-INCH, DOWELED AND TINED

N

CTH K EB

CTH K WB

33+00EB

33+00WB

R/L CTH K

CTH K WB PGL

12' 12'

32+60.67
24.00' LT

4054+67.48
49.00' LT

32+84.78
24.00' LT

15'

5'

12'

WEST FRONTAGE ROAD

2058+00

2059+00

4054+00

R/L WEST FRONTAGE ROAD

5' WEST FRONTAGE ROAD

12'

+40.20
26.00' RT

2058+02.28
17.00' RT

15'

14' 12'

+64.32
26.00' RT

34+00EB

34+00WB

ISLAND OFFSET TABLE

POINT	STATION	OFFSET	ELEV
A	2058+42.72	19.00' RT	779.30
B	2058+42.13	24.97' RT	779.19
C	2058+87.49	17.00' RT	780.05
D	2058+91.74	21.23' RT	780.14
E	33+58.32	32.00' RT	780.21
F	33+62.11	36.65' RT	780.10
G	32+63.29	36.65' LT	778.92
H	32+67.08	32.00' LT	779.00
I	32+75.61	32.00' LT	779.12
J	32+79.86	36.23' LT	779.14
K	32+78.15	79.00' LT	778.76
L	32+72.19	79.63' LT	778.72

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	ISLAND DETAILS	SHEET 52 E

2

CURB RETURN DATA TABLE

POINT NO.	STATION	OFFSET	RADIUS
15	38+93.53 (WB)	512.36' RT	500'
16	40+39.91 (WB)	25.83' RT	4'
17	40+74.58 (WB)	66.26' LT	70'

N

R/W

SLOPE INTERCEPT

STA 38+00.00WB
STA 438+00.00
X=593577.68
Y=204901.86

35+50

+64.70
32.00' LT

CG46

CP15 CG46 PV12 CG21

+00.00
32.00' LT

CG21

CTH K WB

CTH K WB PGL

PV12

TRANSITION WB PGL

+41.81
74.33' LT

+39.85
74.12' LT

+40.30
68.45' LT

17

70' R

+63.67
6.17' RT

CG46 36+00WB 37+00WB 38+00WB 39+00WB 40+00WB 41+00WB

CM07 CM01 +28.37 0.00' RT +28.39 14.00' RT CP15

END 10:1 TAPER
38+37.70 15.1' RT

439+00 +41.95 14.45' RT

440+00

BEGIN 10:1 TAPER
37+28.42 26.00' RT

CG46 CG46

15

CM07

CG21

+39.92
21.84' RT

CM01

PV12

16

SW01

36+00EB 37+00EB 38+00EB 39+00EB 40+00EB 41+00EB

CG46 CM05 CP15 +17.08 2.50' LT CP15

CTH K EB

339+00 340+00 341+00

+20.70
23.63' RT

R/L CTH K EB

41+50

PV12

END 7.75:1 TAPER
39+05.66 24.98' RT

XXXX +20.33 12.38' RT

SW01

+39.89
29.83' RT

TRANSITION EB PGL

+50.04
0.58' RT

DR01

BEGIN 7.75:1 TAPER
38+00.00 40.00' RT

CG21

SIGN

PV03

+68.39
42.00' RT

DR06

+90.39
42.00' RT

CG46

S-51-216

CP15 CG46 PV12 CG21

MATCHLINE

12'

+73.32
64.00' RT

XXXX

+85.32
64.00' RT

SW01

SLOPE INTERCEPT

FLAG

SEPC

MATCHLINE

LEGEND

- CP15 CONCRETE PAVEMENT, 10 1/2-INCH, DOWELED AND TINED
- AG01 BASE AGGREGATE DENSE 3/4-INCH
- PV03 CONCRETE SURFACE DRAINS
- PV12 ASPHALTIC SURFACE TEMPORARY, 5-INCH
- CG21 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG46 CONCRETE CURB AND GUTTER 30-INCH TYPE A
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM07 CONCRETE SIDEWALK 5-INCH
- DR01 CONCRETE DRIVEWAY 6-INCH
- DR06 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- SW01 SAWING ASPHALT

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - CTH K	SHEET 53	E

LEGEND

- (PV12) ASPHALTIC SURFACE TEMPORARY, 5-INCH
- (CG21) CONCRETE CURB AND GUTTER 30-INCH TYPE D
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM02) CONCRETE MEDIAN SLOPED NOSE TYPE 2
- (CM05) CONCRETE SAFETY ISLAND
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE

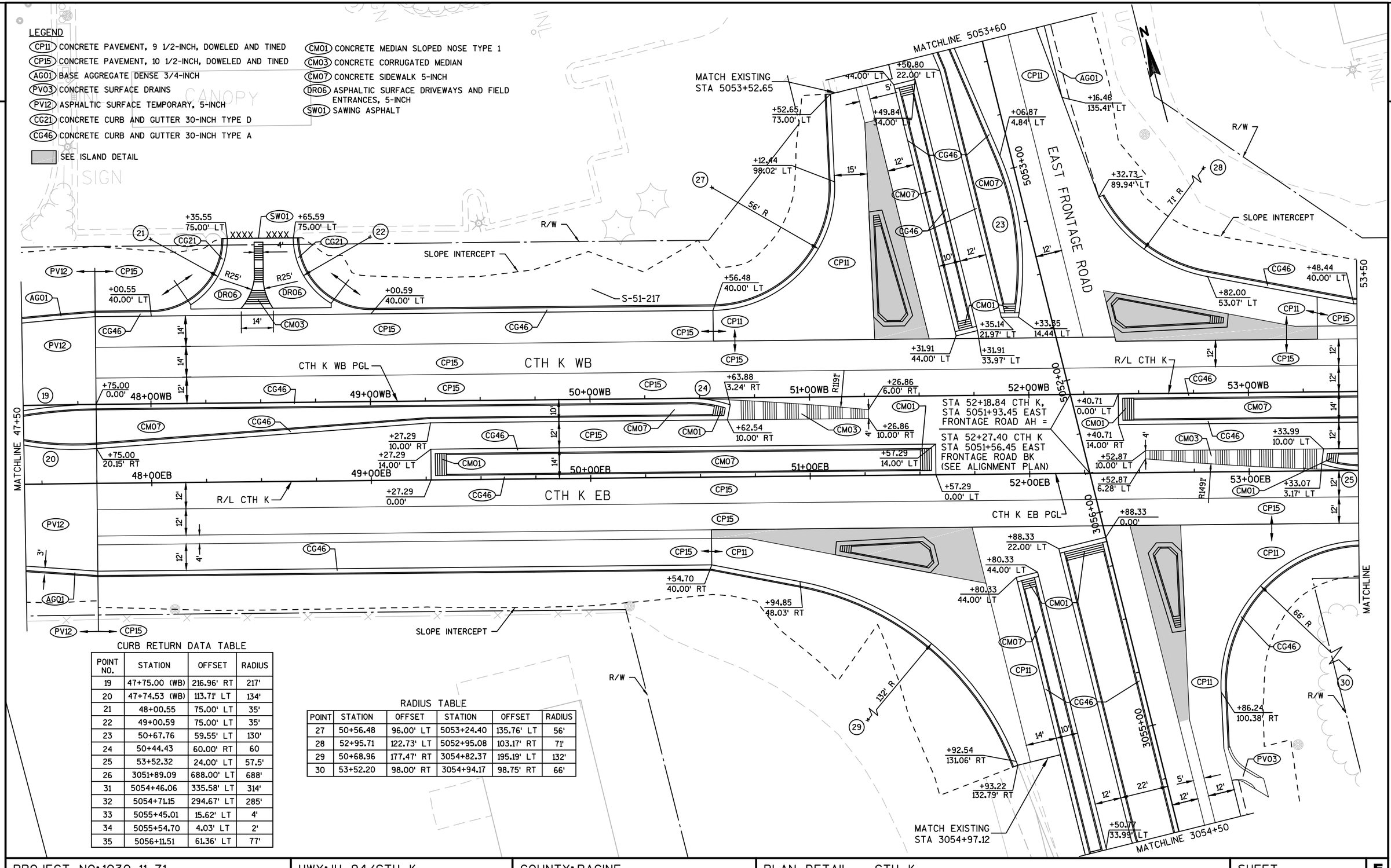
CURB RETURN DATA TABLE

POINT NO.	STATION	OFFSET	RADIUS
18	44+60.66 (EB)	11.50' RT	3.5'
19	44+80.90 (EB)	10.58' RT	3.5'
20	45+42.49 (EB)	78.31' RT	60'
21	48+46.67 (WB)	1154.45' RT	1196'
22	47+37.27 (WB)	9.83' RT	5'

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - CTH K	SHEET 54	E

LEGEND

- CP11 CONCRETE PAVEMENT, 9 1/2-INCH, DOWELED AND TINED
- CP15 CONCRETE PAVEMENT, 10 1/2-INCH, DOWELED AND TINED
- AG01 BASE AGGREGATE DENSE 3/4-INCH
- PV03 CONCRETE SURFACE DRAINS
- PV12 ASPHALTIC SURFACE TEMPORARY, 5-INCH
- CG21 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG46 CONCRETE CURB AND GUTTER 30-INCH TYPE A
- SEE ISLAND DETAIL
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM03 CONCRETE CORRUGATED MEDIAN
- CM07 CONCRETE SIDEWALK 5-INCH
- DR06 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- SW01 SAWING ASPHALT



CURB RETURN DATA TABLE

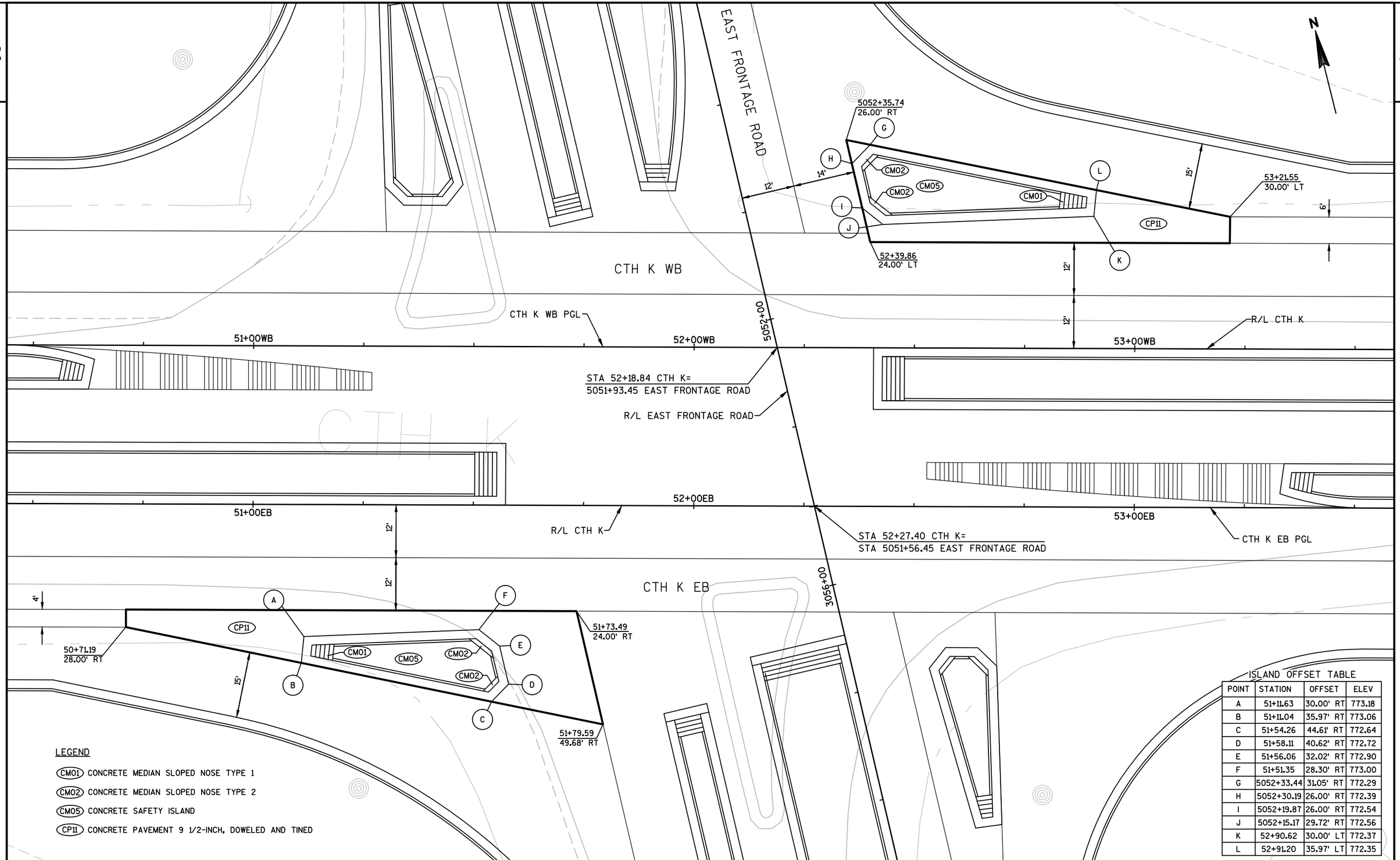
POINT NO.	STATION	OFFSET	RADIUS
19	47+75.00 (WB)	216.96' RT	217'
20	47+74.53 (WB)	113.71' LT	134'
21	48+00.55	75.00' LT	35'
22	49+00.59	75.00' LT	35'
23	50+67.76	59.55' LT	130'
24	50+44.43	60.00' RT	60
25	53+52.32	24.00' LT	57.5'
26	3051+89.09	688.00' LT	688'
31	5054+46.06	335.58' LT	314'
32	5054+71.15	294.67' LT	285'
33	5055+45.01	15.62' LT	4'
34	5055+54.70	4.03' LT	2'
35	5056+11.51	61.36' LT	77'

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
27	50+56.48	96.00' LT	5053+24.40	135.76' LT	56'
28	52+95.71	122.73' LT	5052+95.08	103.17' RT	71'
29	50+68.96	177.47' RT	3054+82.37	195.19' LT	132'
30	53+52.20	98.00' RT	3054+94.17	98.75' RT	66'

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - CTH K	SHEET 55	E

2



LEGEND

- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM02) CONCRETE MEDIAN SLOPED NOSE TYPE 2
- (CM05) CONCRETE SAFETY ISLAND
- (CP11) CONCRETE PAVEMENT 9 1/2-INCH, DOWELED AND TINED

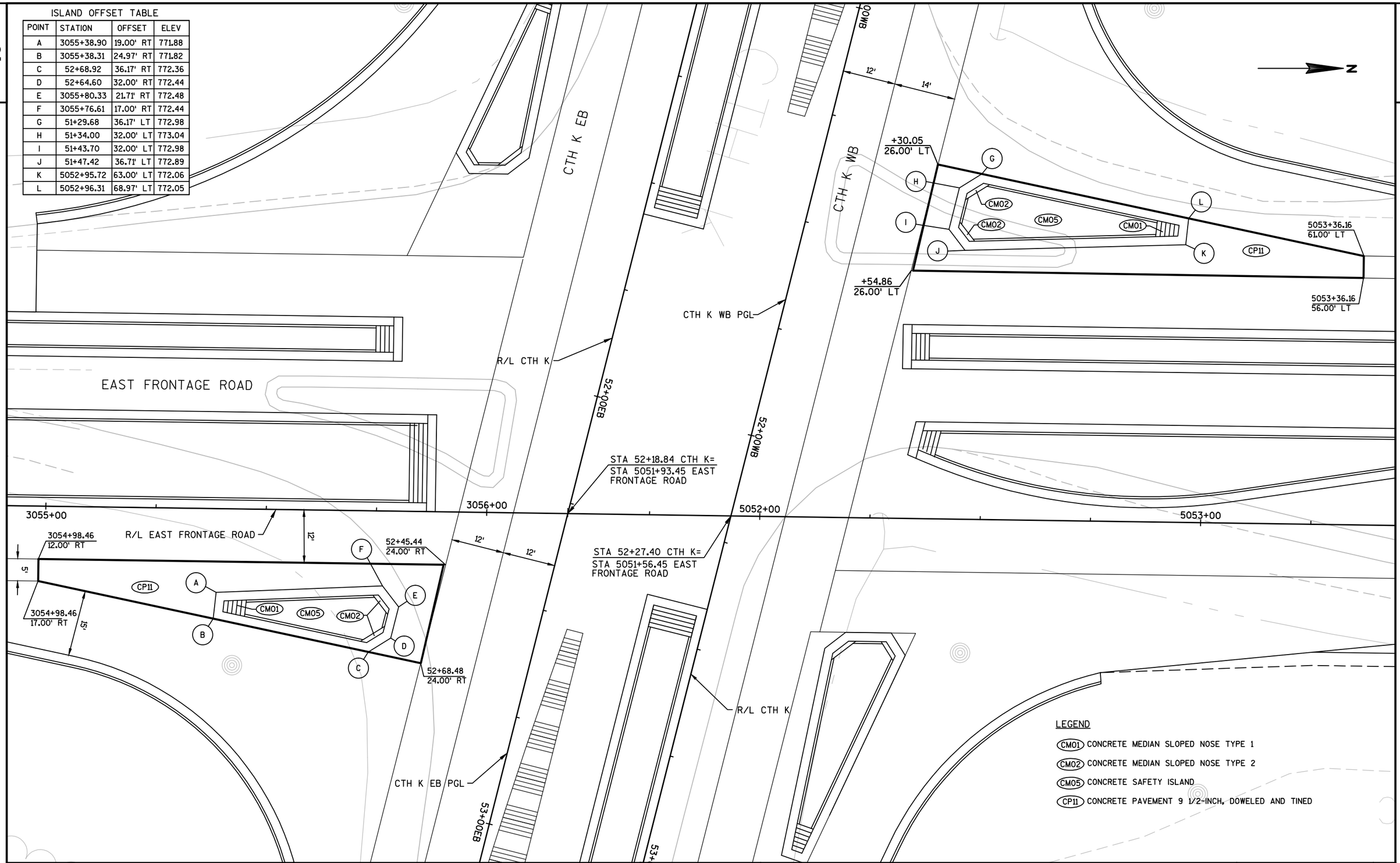
ISLAND OFFSET TABLE

POINT	STATION	OFFSET	ELEV
A	51+11.63	30.00' RT	773.18
B	51+11.04	35.97' RT	773.06
C	51+54.26	44.61' RT	772.64
D	51+58.11	40.62' RT	772.72
E	51+56.06	32.02' RT	772.90
F	51+51.35	28.30' RT	773.00
G	5052+33.44	31.05' RT	772.29
H	5052+30.19	26.00' RT	772.39
I	5052+19.87	26.00' RT	772.54
J	5052+15.17	29.72' RT	772.56
K	52+90.62	30.00' LT	772.37
L	52+91.20	35.97' LT	772.35

PROJECT NO:1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	ISLAND DETAILS	SHEET 56 E

ISLAND OFFSET TABLE

POINT	STATION	OFFSET	ELEV
A	3055+38.90	19.00' RT	771.88
B	3055+38.31	24.97' RT	771.82
C	52+68.92	36.17' RT	772.36
D	52+64.60	32.00' RT	772.44
E	3055+80.33	21.71' RT	772.48
F	3055+76.61	17.00' RT	772.44
G	51+29.68	36.17' LT	772.98
H	51+34.00	32.00' LT	773.04
I	51+43.70	32.00' LT	772.98
J	51+47.42	36.71' LT	772.89
K	5052+95.72	63.00' LT	772.06
L	5052+96.31	68.97' LT	772.05



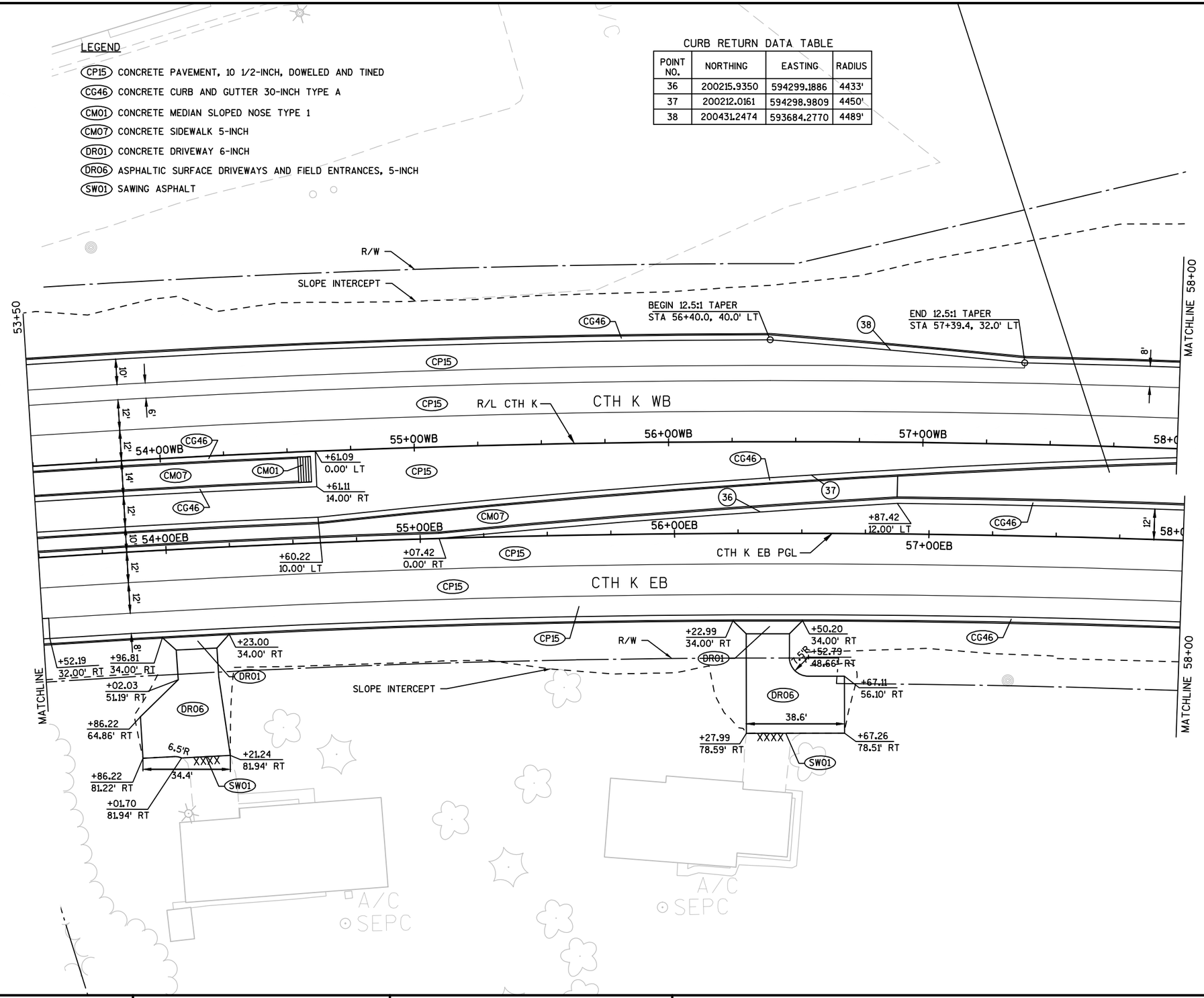
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	ISLAND DETAILS	SHEET 57	E

LEGEND

- (CP15) CONCRETE PAVEMENT, 10 1/2-INCH, DOWELED AND TINED
- (CG46) CONCRETE CURB AND GUTTER 30-INCH TYPE A
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM07) CONCRETE SIDEWALK 5-INCH
- (DR01) CONCRETE DRIVEWAY 6-INCH
- (DR06) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (SW01) SAWING ASPHALT

CURB RETURN DATA TABLE

POINT NO.	NORTHING	EASTING	RADIUS
36	200215.9350	594299.1886	4433'
37	200212.0161	594298.9809	4450'
38	200431.2474	593684.2770	4489'



PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - CTH K	SHEET 58	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\021201_PD.DWG
LAYOUT NAME - 021212

PLOT DATE : 11/29/2016 2:51 PM PLOT BY : EASON, ADRIANNA M PLOT NAME : PLOT SCALE : 1 IN:40 FT

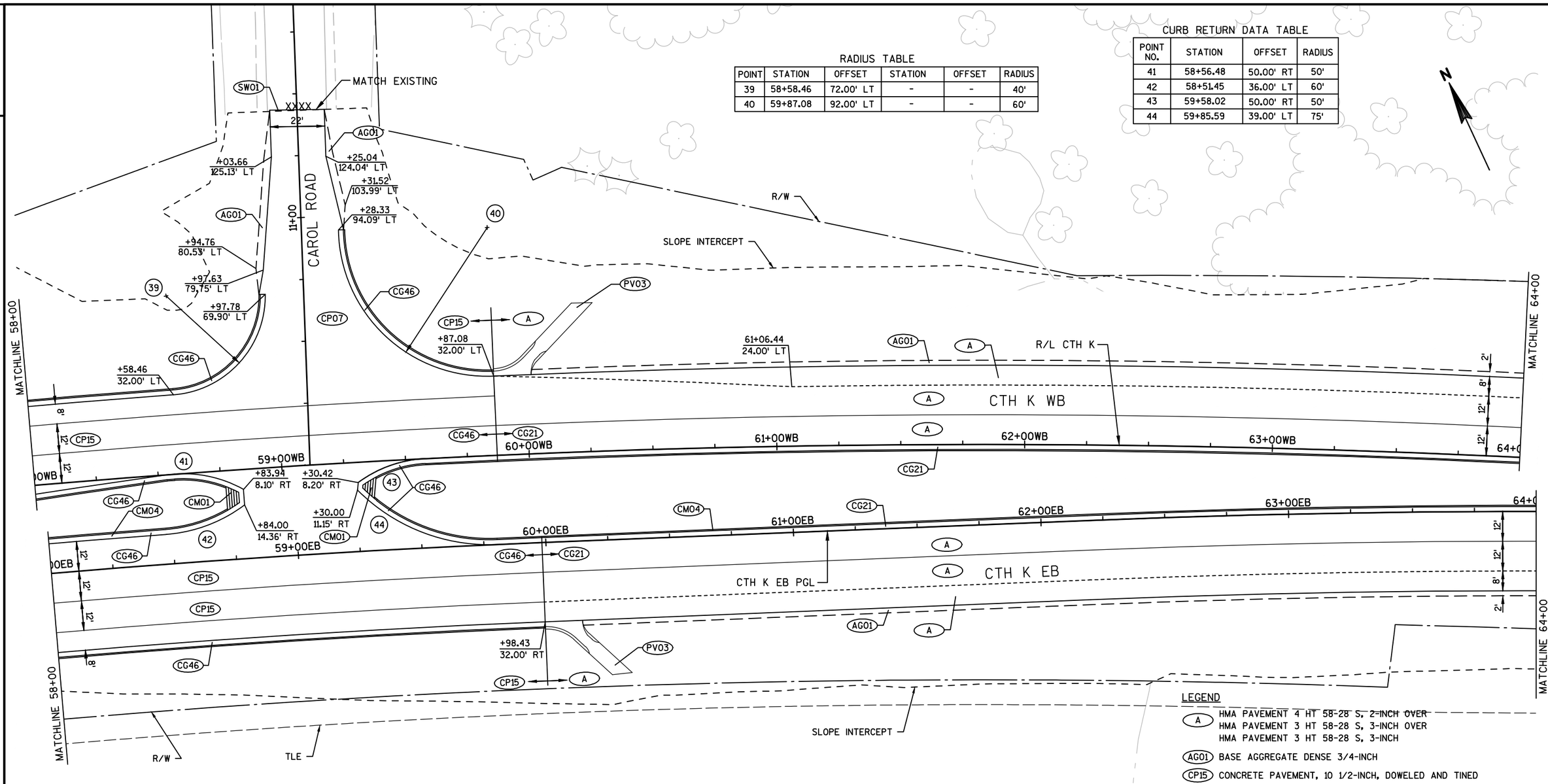
2

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
39	58+58.46	72.00' LT	-	-	40'
40	59+87.08	92.00' LT	-	-	60'

CURB RETURN DATA TABLE

POINT NO.	STATION	OFFSET	RADIUS
41	58+56.48	50.00' RT	50'
42	58+51.45	36.00' LT	60'
43	59+58.02	50.00' RT	50'
44	59+85.59	39.00' LT	75'



LEGEND

- (A) HMA PAVEMENT 4 HT 58-28 S, 2-INCH OVER HMA PAVEMENT 3 HT 58-28 S, 3-INCH OVER HMA PAVEMENT 3 HT 58-28 S, 3-INCH
- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (CP15) CONCRETE PAVEMENT, 10 1/2-INCH, DOWELED AND TINED
- (PV03) CONCRETE SURFACE DRAINS
- (CG21) CONCRETE CURB AND GUTTER 30-INCH TYPE D
- (CG46) CONCRETE CURB AND GUTTER 30-INCH TYPE A
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM04) MAINTENANCE OPENING, SEE CONSTRUCTION DETAIL
- (SW01) SAWING ASPHALT

NOTE: SEE GENERAL NOTES FOR ADDITIONAL INFORMATION ON HMA PAVEMENT LAYERS.

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - CTH K	SHEET 59	E

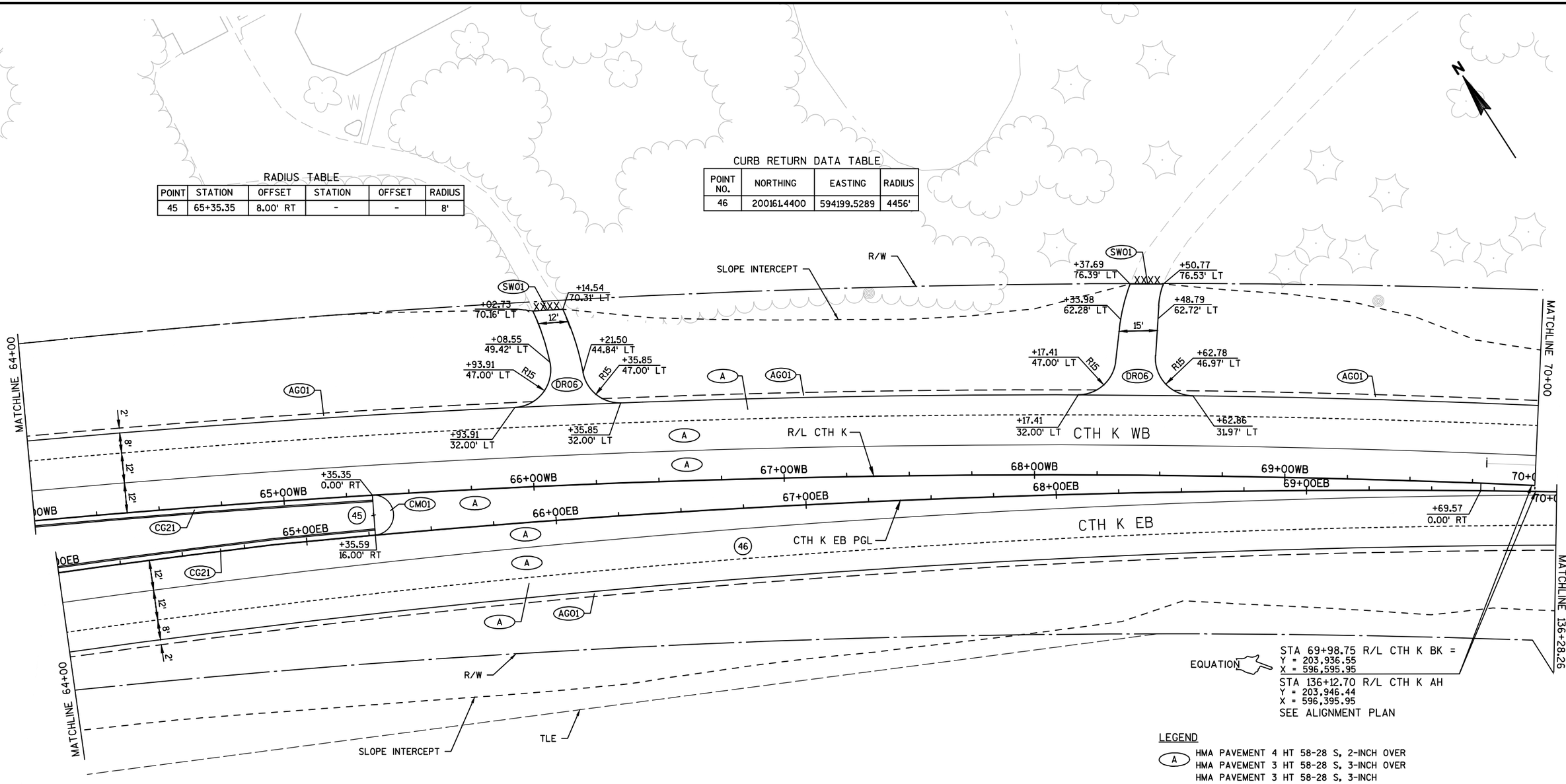
FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\021201_PD.DWG
LAYOUT NAME - 021213
PLOT DATE : 12/13/2016 11:27 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

RADIUS TABLE

POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
45	65+35.35	8.00' RT	-	-	8'

CURB RETURN DATA TABLE

POINT NO.	NORTHING	EASTING	RADIUS
46	200161.4400	594199.5289	4456'



EQUATION

STA 69+98.75 R/L CTH K BK =
Y = 203,936.55
X = 596,595.95

STA 136+12.70 R/L CTH K AH
Y = 203,946.44
X = 596,395.95

SEE ALIGNMENT PLAN

LEGEND

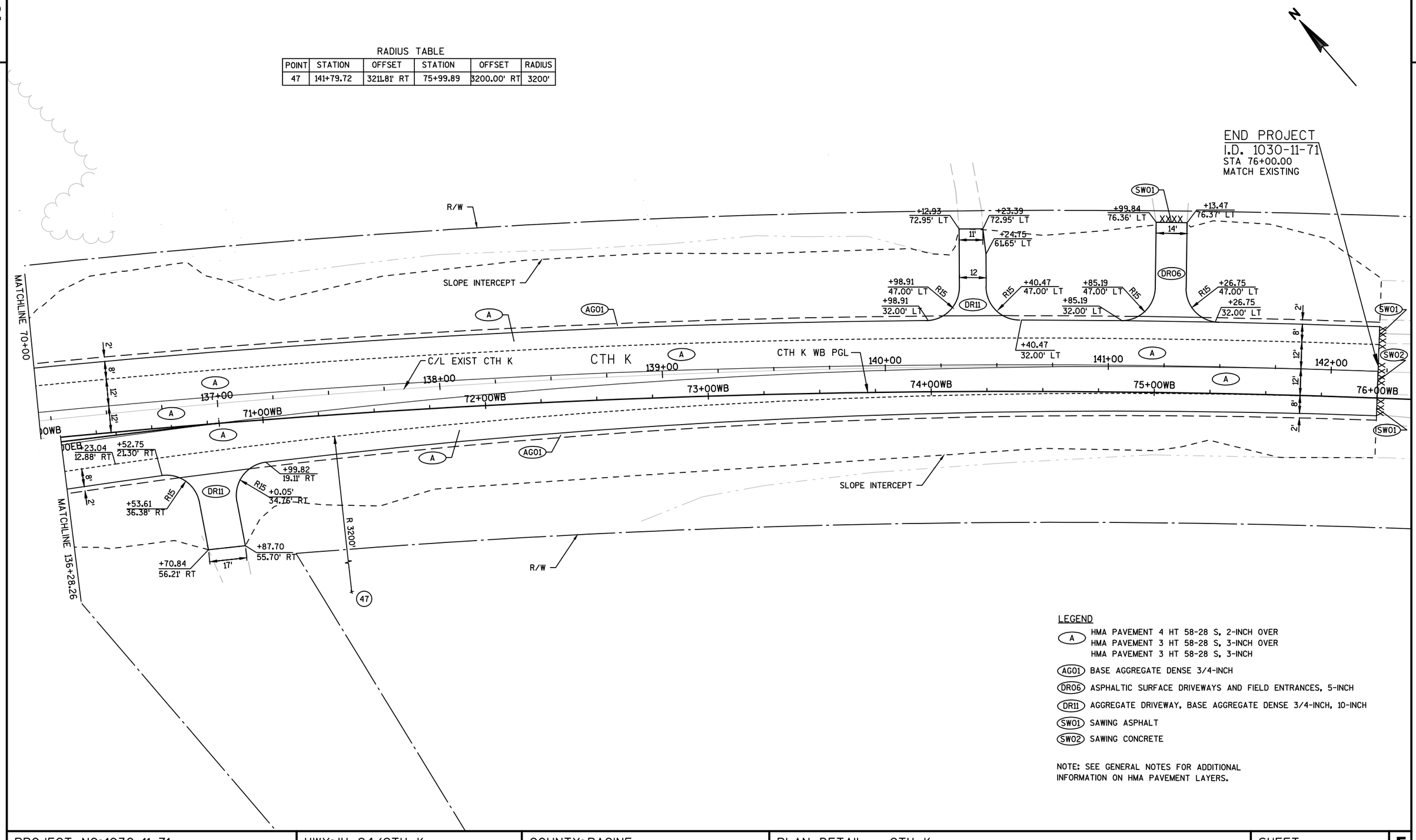
- (A) HMA PAVEMENT 4 HT 58-28 S, 2-INCH OVER HMA PAVEMENT 3 HT 58-28 S, 3-INCH OVER HMA PAVEMENT 3 HT 58-28 S, 3-INCH
- (AGO1) BASE AGGREGATE DENSE 3/4-INCH
- (CG21) CONCRETE CURB AND GUTTER 30-INCH TYPE D
- (CMO1) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (DRO6) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (SWO1) SAWING ASPHALT

NOTE: SEE GENERAL NOTES FOR ADDITIONAL INFORMATION ON HMA PAVEMENT LAYERS.

2

RADIUS TABLE

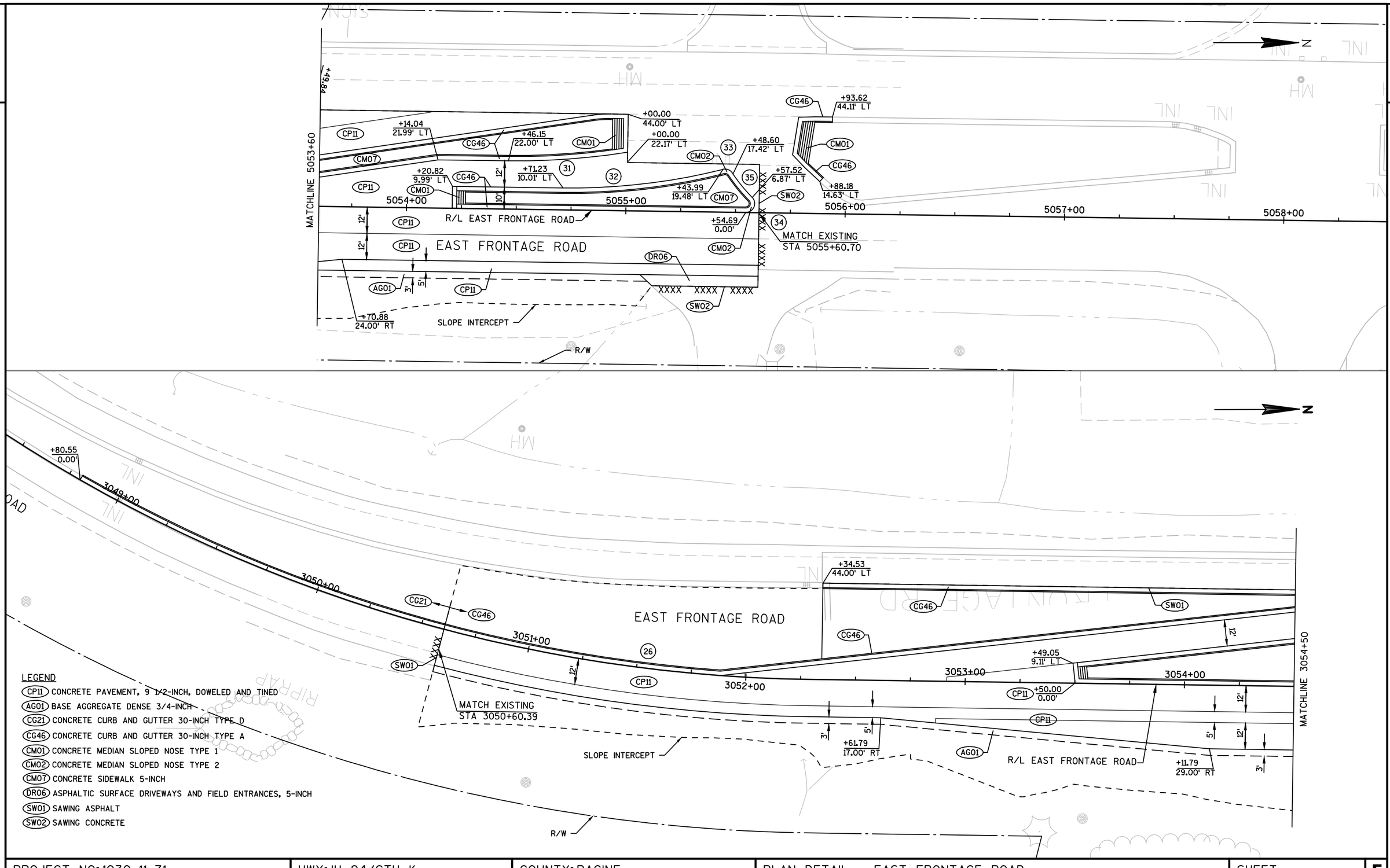
POINT	STATION	OFFSET	STATION	OFFSET	RADIUS
47	141+79.72	3211.81' RT	75+99.89	3200.00' RT	3200'



LEGEND

- (A) HMA PAVEMENT 4 HT 58-28 S, 2-INCH OVER HMA PAVEMENT 3 HT 58-28 S, 3-INCH OVER HMA PAVEMENT 3 HT 58-28 S, 3-INCH
- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (DR06) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (DR11) AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 10-INCH
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE

NOTE: SEE GENERAL NOTES FOR ADDITIONAL INFORMATION ON HMA PAVEMENT LAYERS.



LEGEND

- (CP11) CONCRETE PAVEMENT, 9 1/2-INCH, DOWELED AND TINED
- (AG01) BASE AGGREGATE DENSE 3/4-INCH
- (CG21) CONCRETE CURB AND GUTTER 30-INCH TYPE D
- (CG46) CONCRETE CURB AND GUTTER 30-INCH TYPE A
- (CM01) CONCRETE MEDIAN SLOPED NOSE TYPE 1
- (CM02) CONCRETE MEDIAN SLOPED NOSE TYPE 2
- (CM07) CONCRETE SIDEWALK 5-INCH
- (DR06) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 5-INCH
- (SW01) SAWING ASPHALT
- (SW02) SAWING CONCRETE

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN DETAIL - EAST FRONTAGE ROAD	SHEET 62	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\021201_PD.DWG
LAYOUT NAME - 021216
PLOT DATE : 3/20/2017 6:55 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 42

2

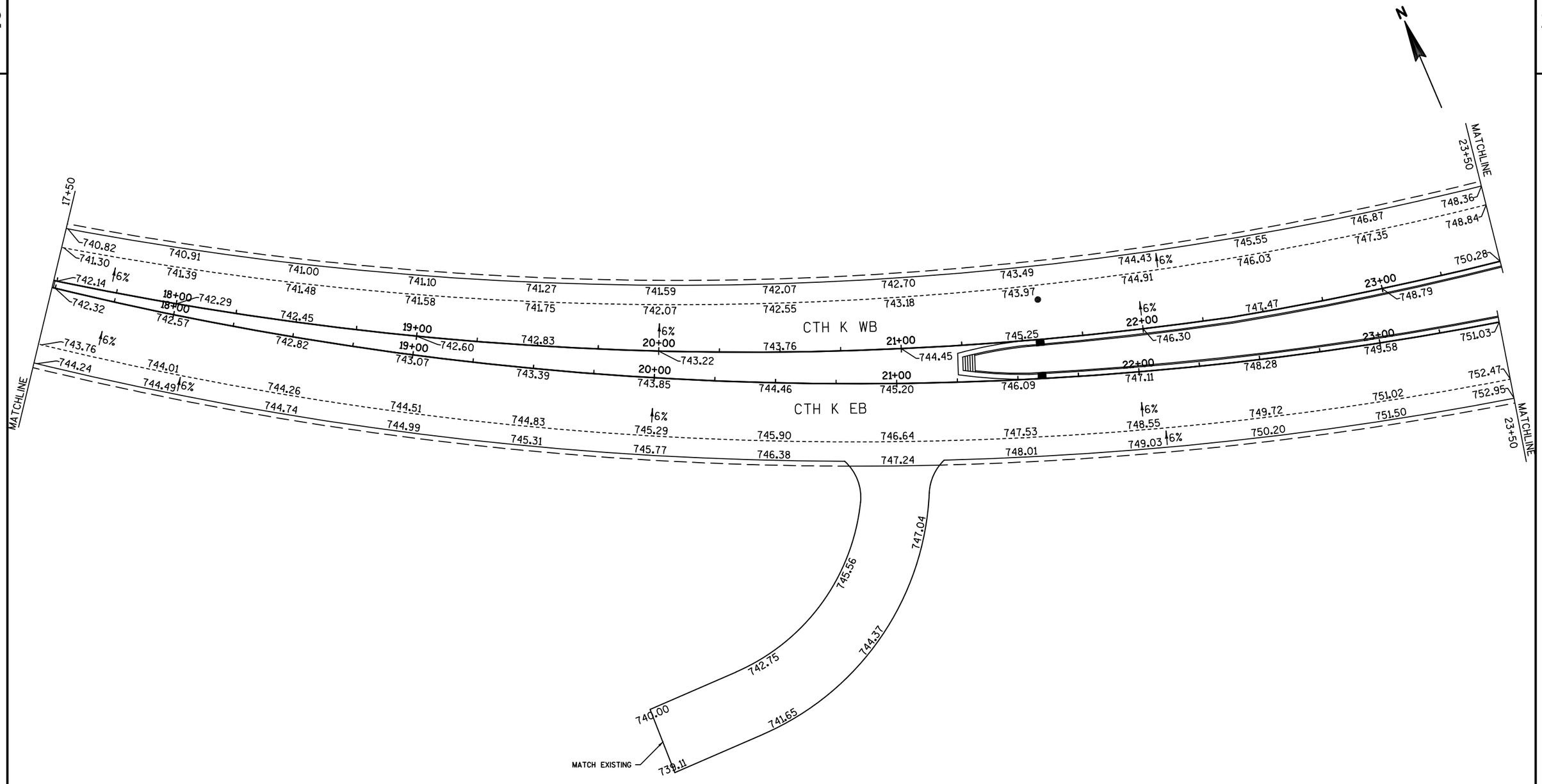
N

MATCHLINE

CTH K

| | | |

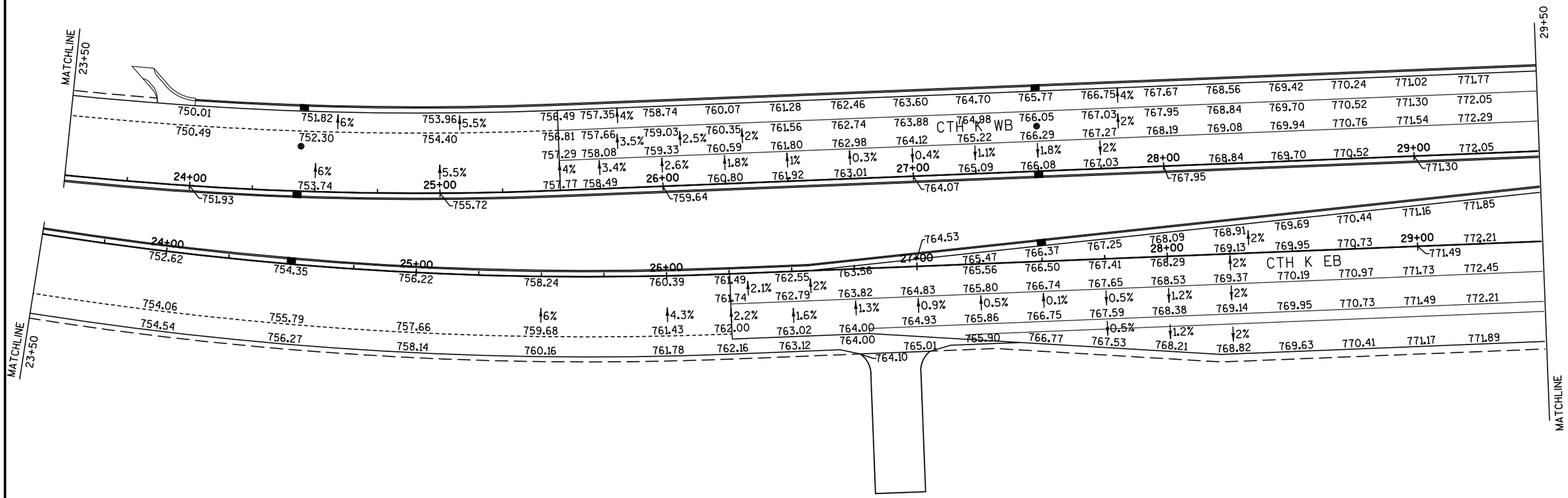
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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PAVING GRADES	SHEET 64	E

2

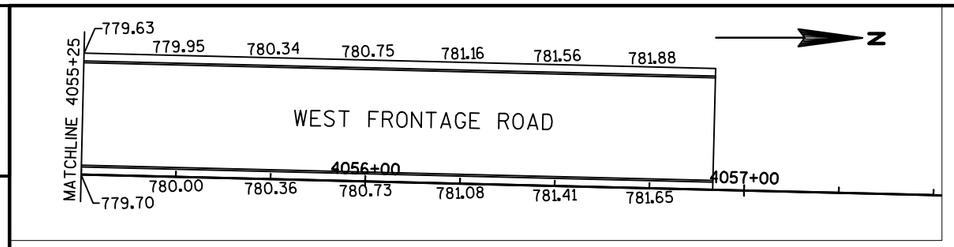
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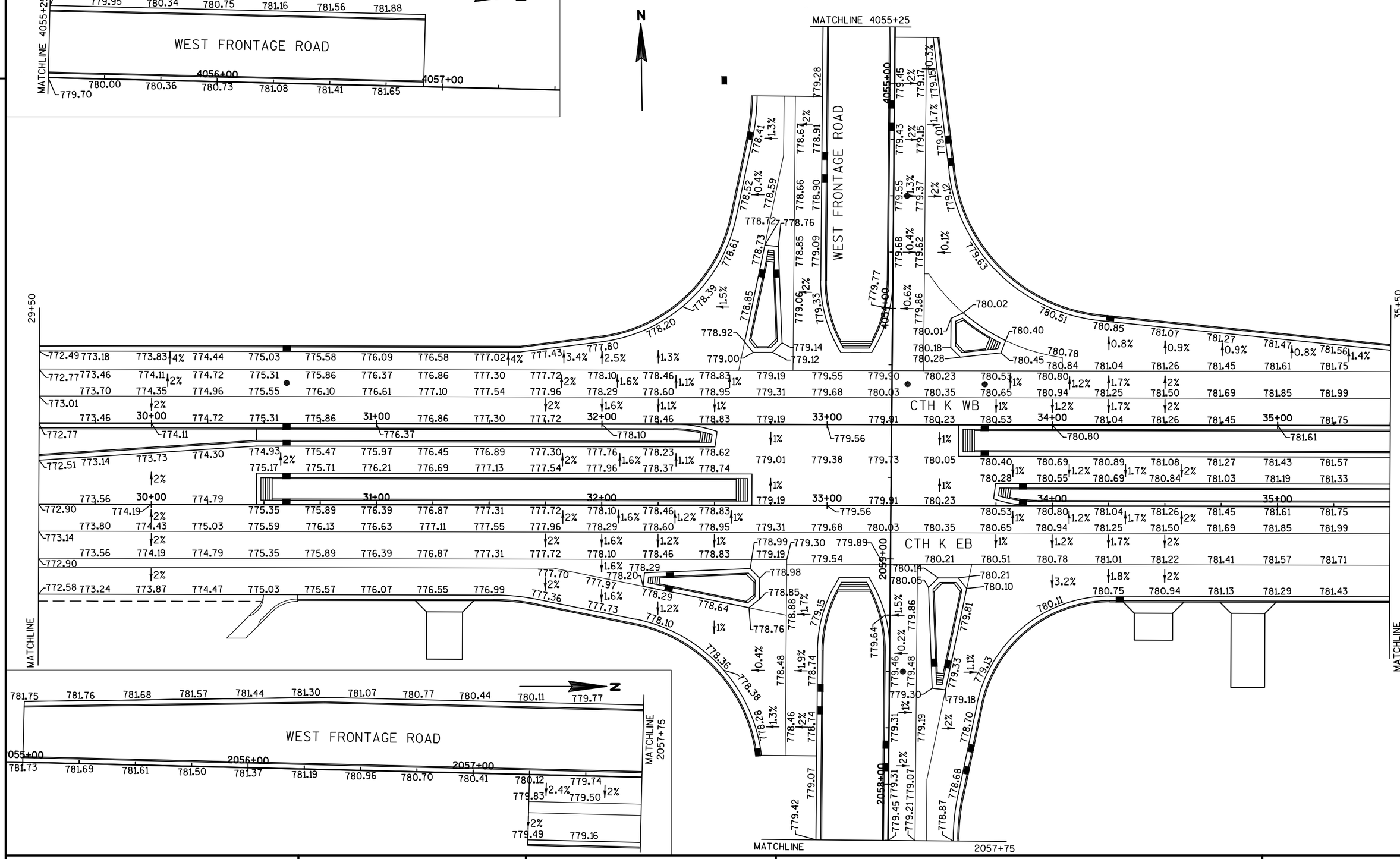


PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PAVING GRADES	SHEET	65 E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\021301_JD.DWG
LAYOUT NAME - SHEET - (3)

PLOT DATE : 11/30/2016 2:32 PM PLOT BY : TANNER, DEREK M PLOT NAME : PLOT SCALE : 1 IN:40 FT





PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PAVING GRADES	SHEET 66	E

2

N

35+50

781.64

2.4% 781.72 3% 781.79 2.8% 781.86 2% 781.87 781.84 781.79 2% 781.65 3% 781.49 2% 781.36 4% 781.20 4%

781.86 781.94 782.00 782.02 782.03 782.00 781.95 781.87 781.77 781.64 781.48 2%

782.10 782.18 782.24 782.26 782.27 782.24 782.19 782.11 782.01 781.88 781.72

CTH K WB

781.86 781.94 **36+00** 782.02 782.03 782.00 **37+00** 781.87 781.77 781.64 **38+00**

782.00 781.95 781.48

781.68 2% 2%

781.76 781.82 781.84 781.85 781.82 781.77 781.69 2% 781.29 781.22 781.10

781.44 781.52 781.58 781.60 781.61 781.58 781.53 781.45

36+00 **37+00** **38+00**

781.86 781.94 782.00 782.02 782.03 782.00 781.95 2% 781.87 781.77 781.63 781.48

782.10 782.18 782.24 782.26 782.27 782.24 782.19 782.11 782.01 781.87 781.71

CTH K EB

781.82 781.90 781.96 781.98 781.99 781.96 2% 781.91 781.83 781.73 781.59 781.43

2%

781.54 781.62 781.68 781.70 781.71 781.68 781.63 781.55 781.45 781.31 781.15

MATCHLINE

780.89 2.8% 780.43 1.9% 779.99 1.9% 779.41 2% 779.09

781.29 781.13 2.1% 780.86 780.75 2.1% 780.45 1.9% 780.10 2% 779.76 2% 779.42

780.96 780.44 780.09 779.74 779.40

39+00 **40+00** **41+00**

781.21 0.6% 780.79 0.6% 780.70 0.6% 780.37 0.5% 779.93 1.1% 779.47 1.9% 779.13

2% 2% 2%

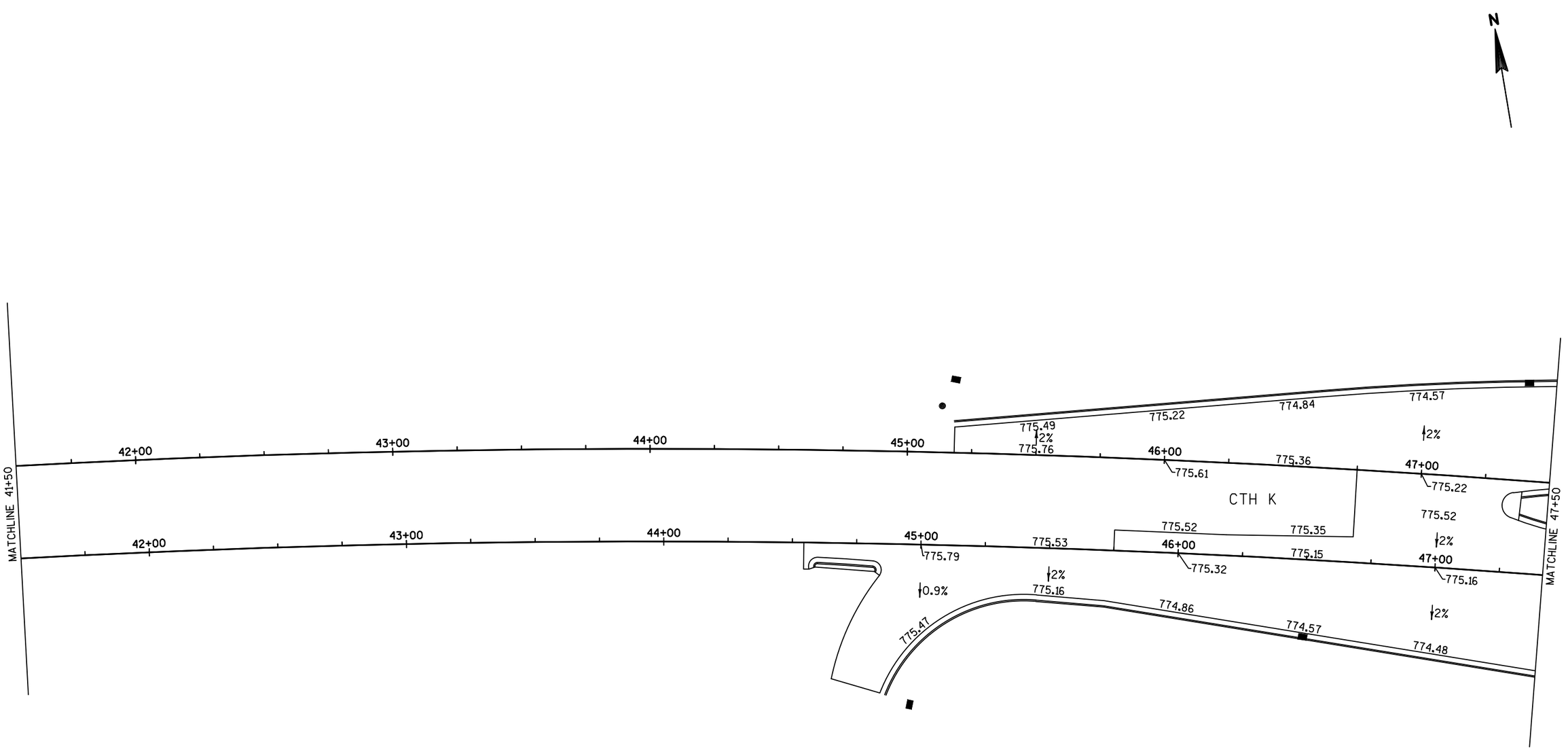
780.80 780.44

41+50

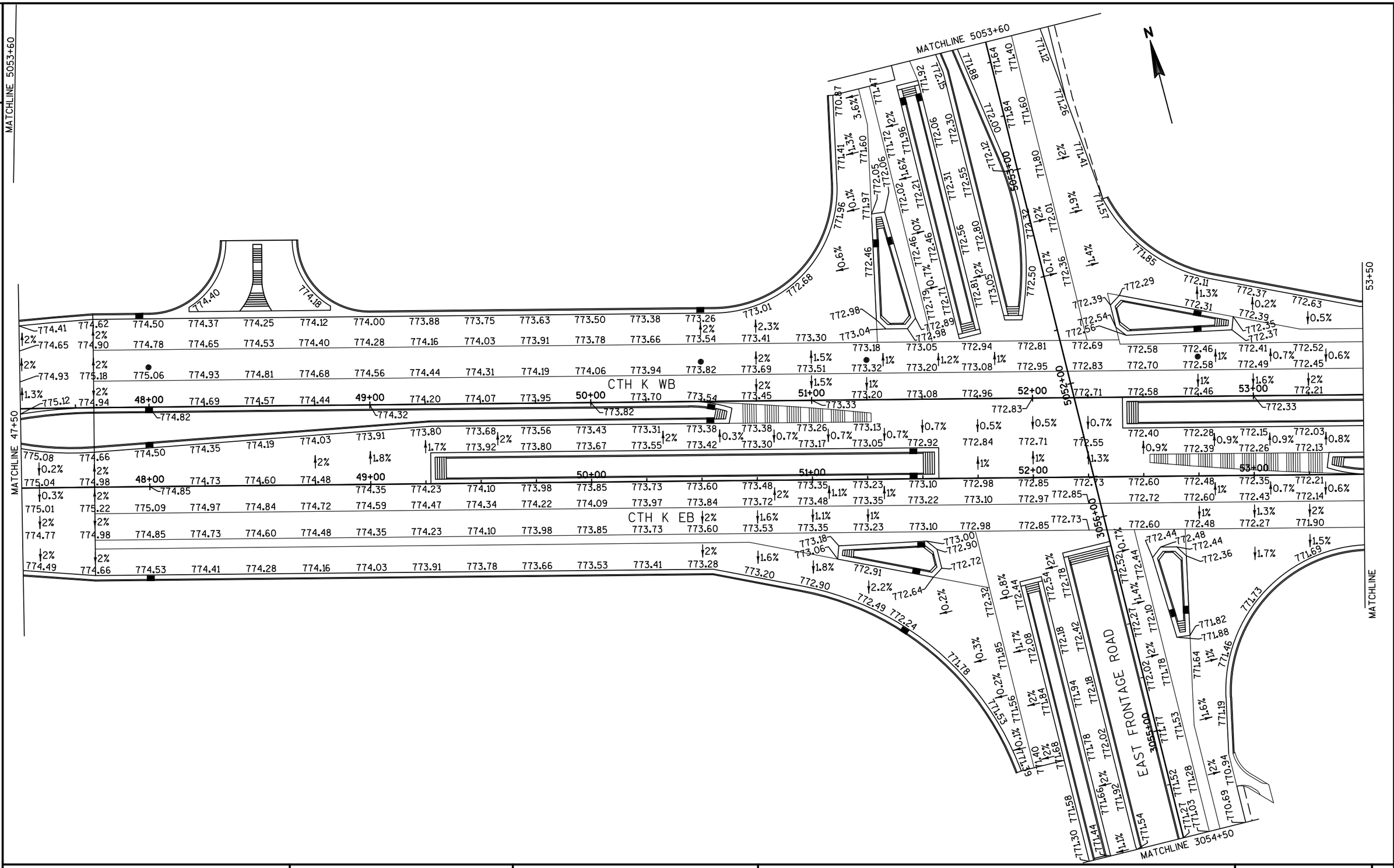
MATCHLINE

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PAVING GRADES	SHEET 67	E

2



PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PAVING GRADES	SHEET 68	E

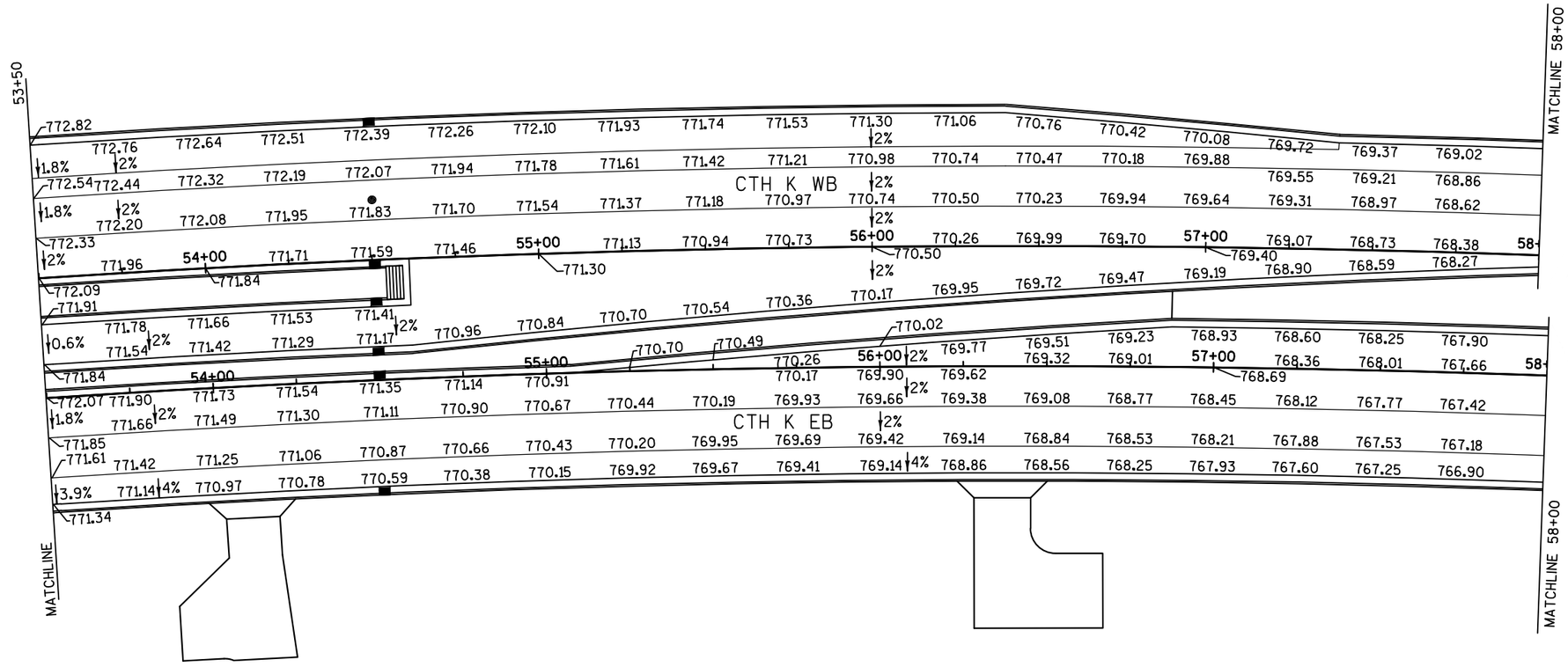


2

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PAVING GRADES	SHEET 69	E

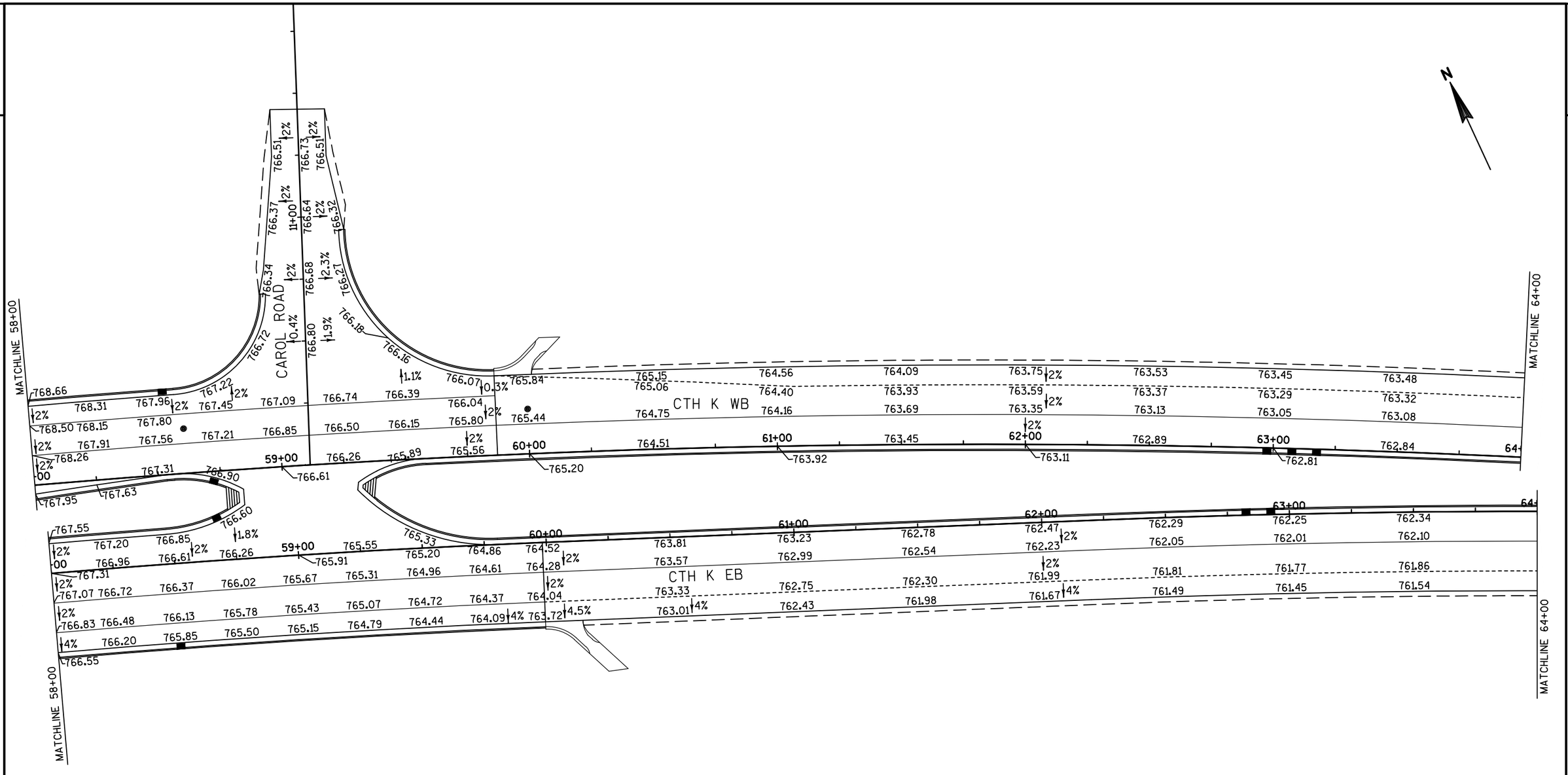
FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\021301_JD.DWG
LAYOUT NAME - SHEET - (7)
PLOT DATE : 12/5/2016 2:14 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



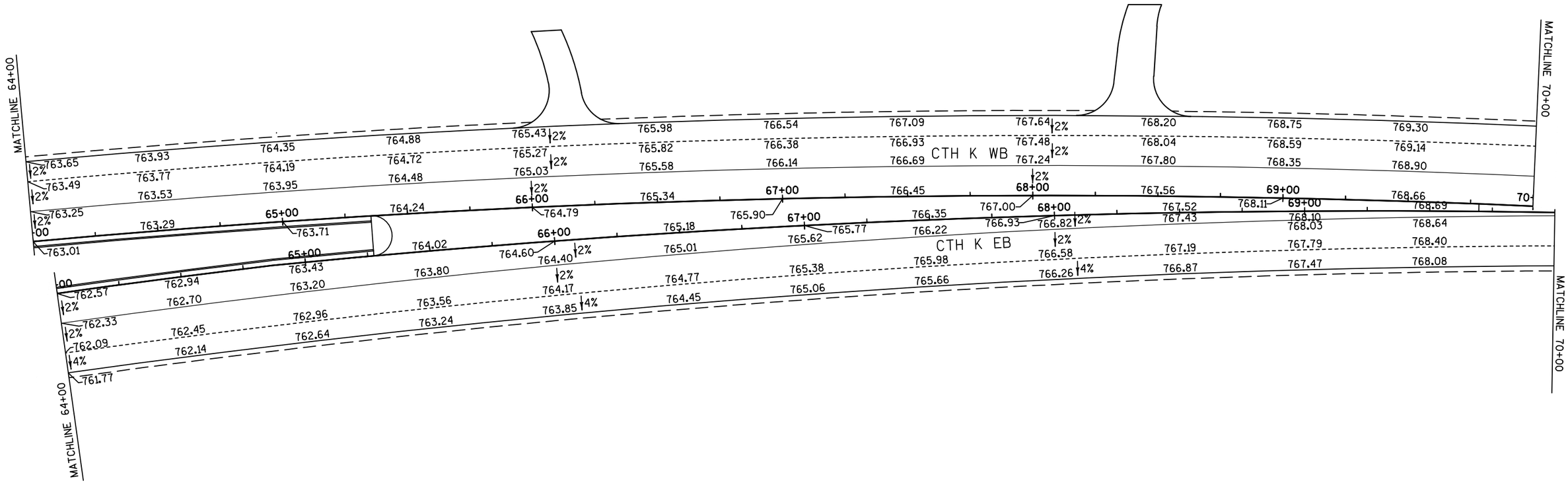
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PAVING GRADES	SHEET 70	E

2



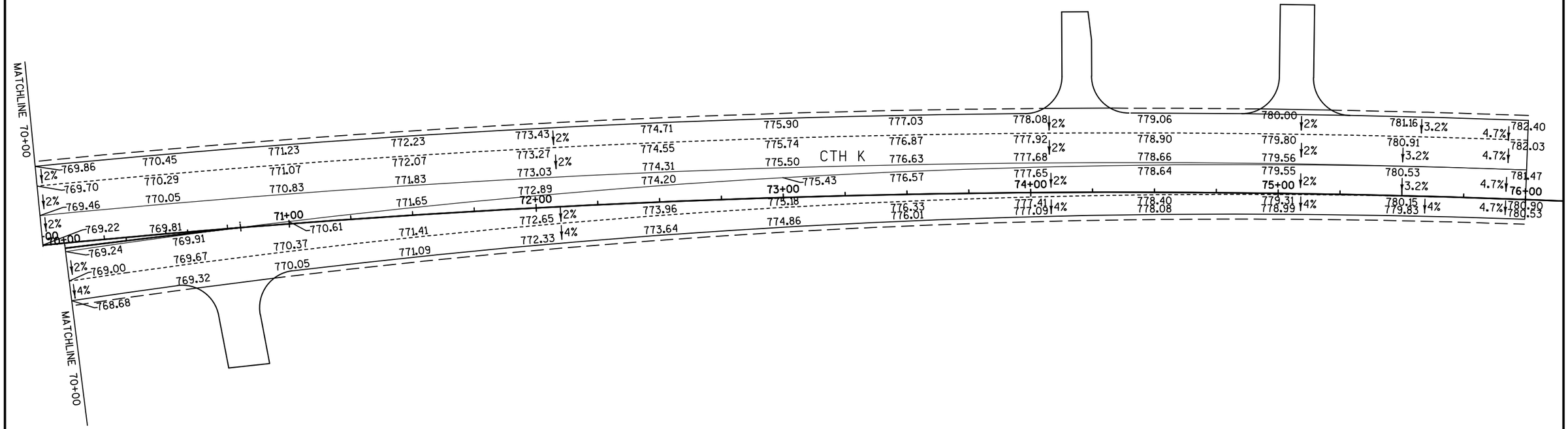
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PAVING GRADES	SHEET 71	E

2

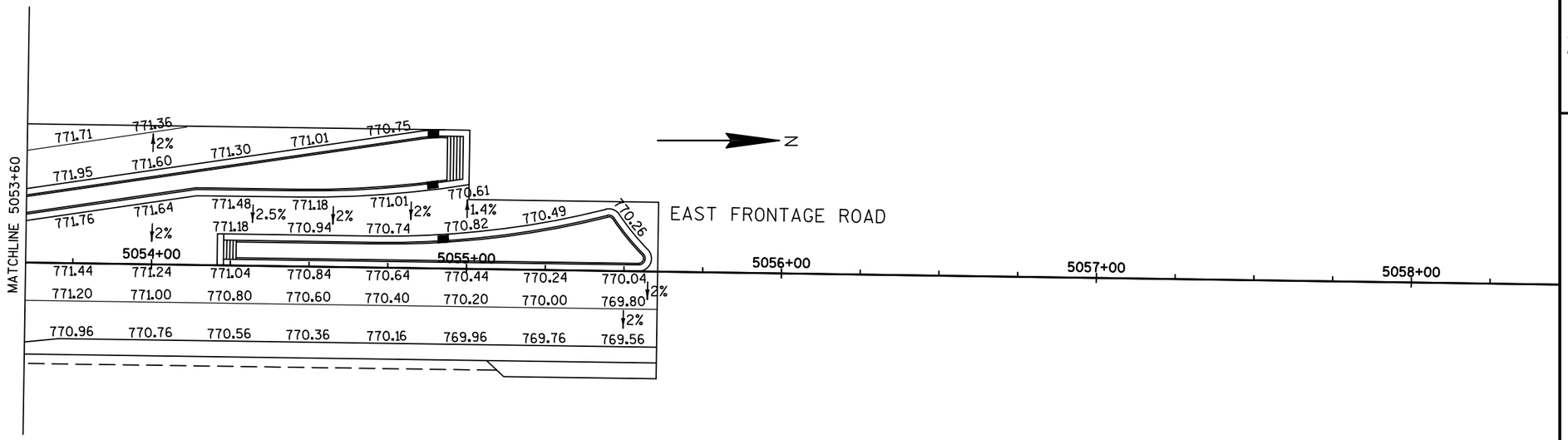


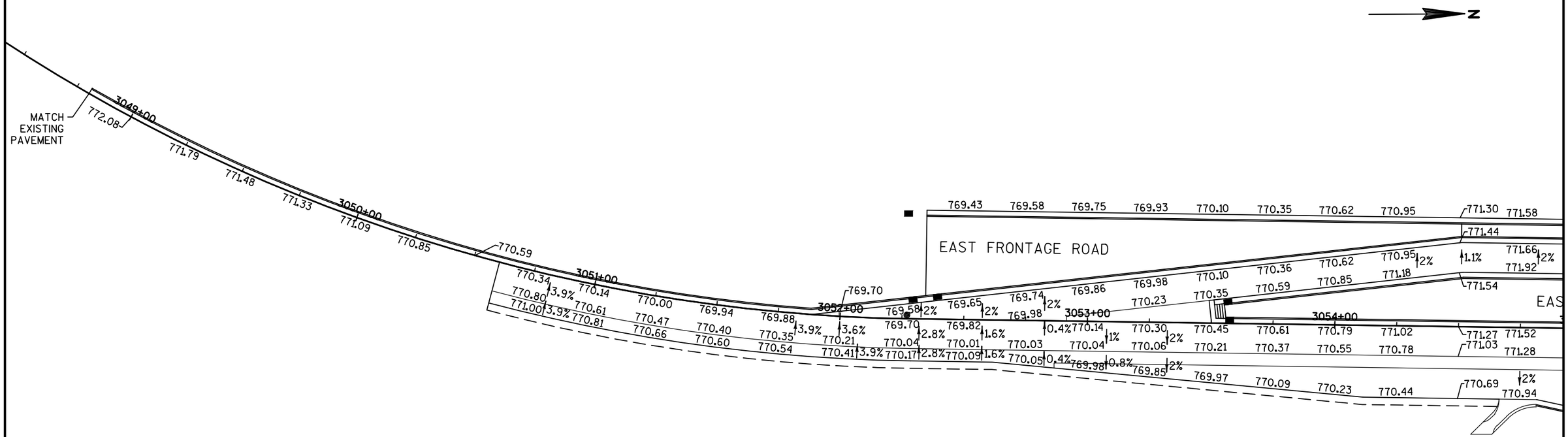
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PAVING GRADES	SHEET 72	E

2



PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PAVING GRADES	SHEET 73 E





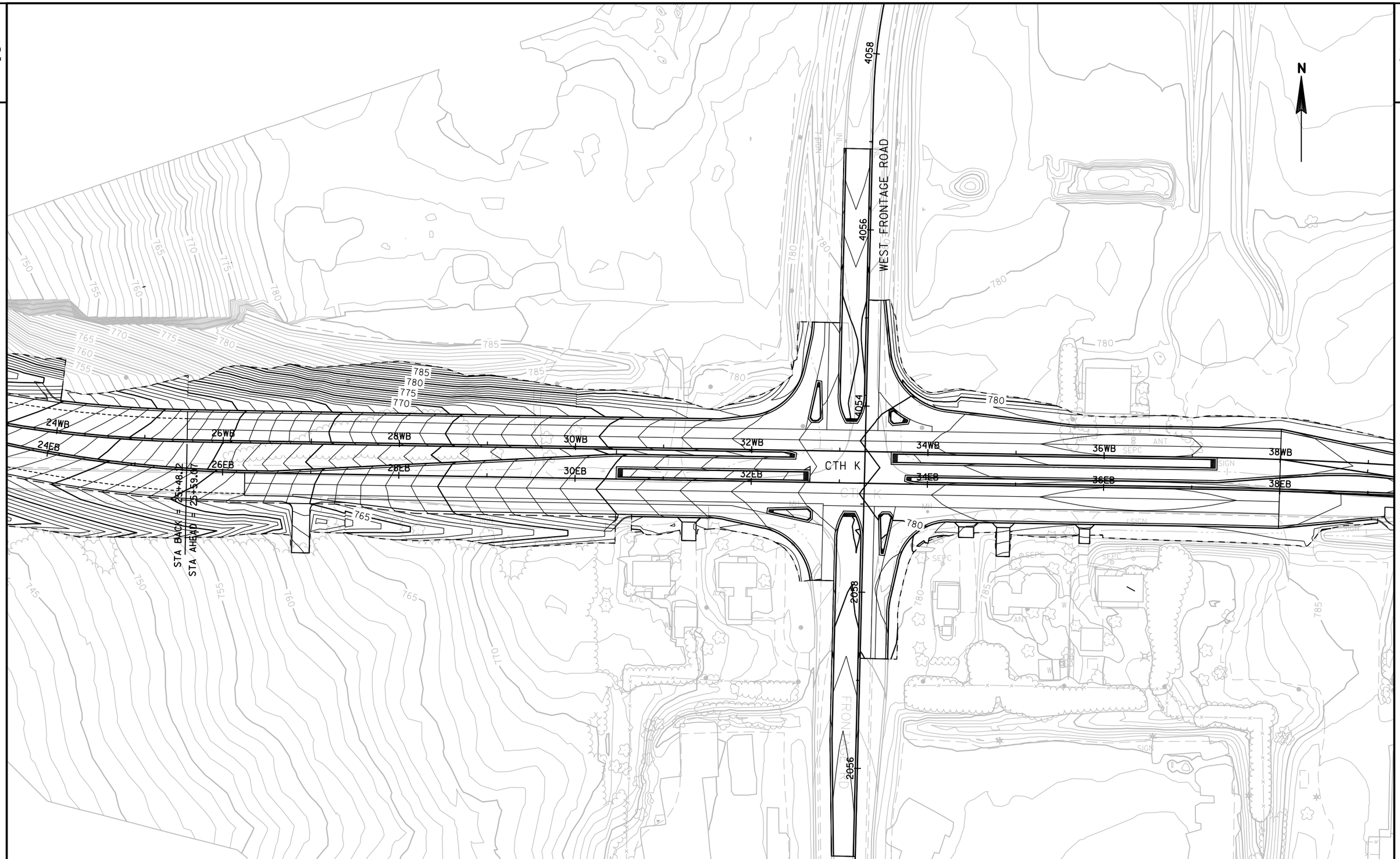
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PAVING GRADES	SHEET 74	E

2



PROJECT NO:1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CONTOUR MAP	SHEET 75	E

2



PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CONTOUR MAP	SHEET 76	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\021601_CM.DWG
LAYOUT NAME - 021602

PLOT DATE : 3/20/2017 7:45 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CONTOUR MAP	SHEET 77	E

2

2

CAROL ROAD

ADAMS RD

CTH K

EAST FRONTAGE ROAD

54WB 54EB 56WB 56EB 58WB 58EB 60WB 60EB 62WB 62EB 64WB 64EB 66WB 66EB 68WB 68EB

3054

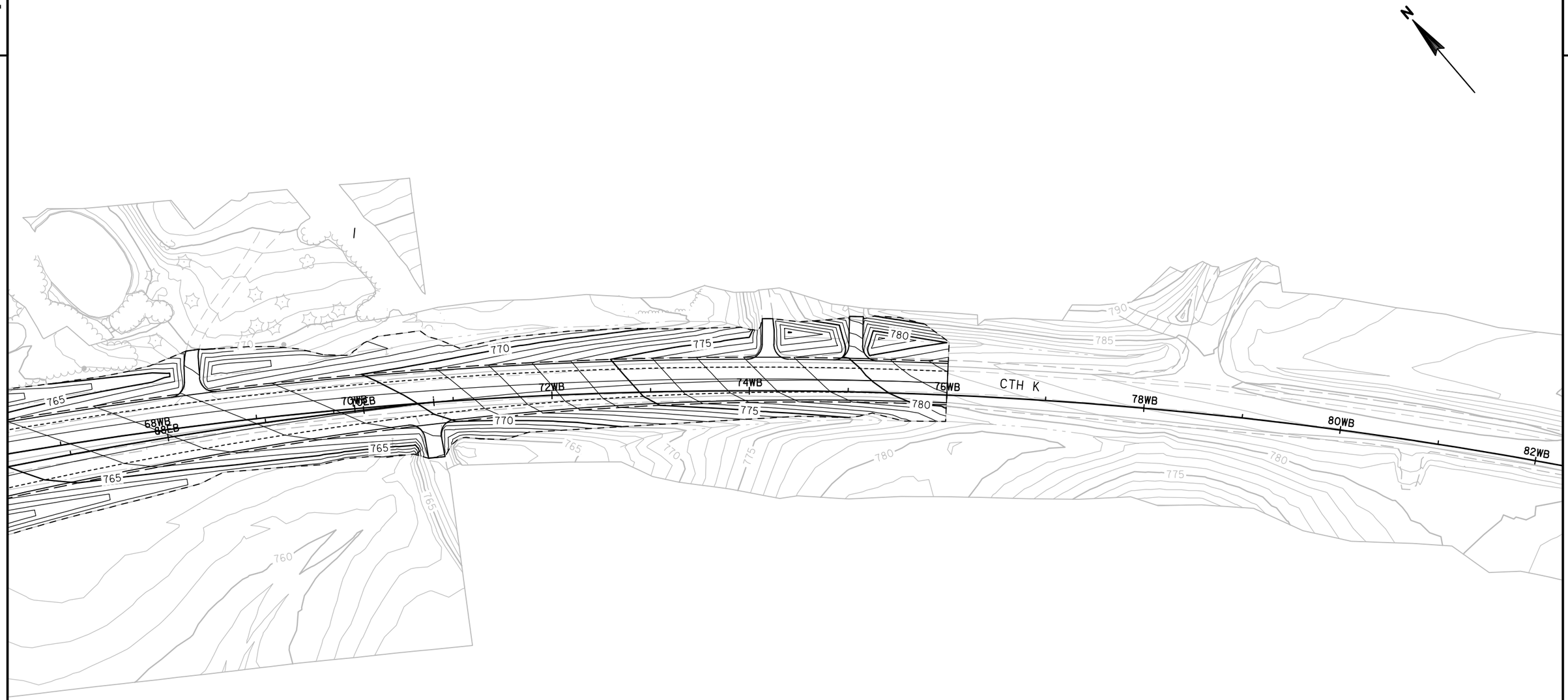
3052

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CONTOUR MAP	SHEET 78	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\021601_CM.DWG
LAYOUT NAME - 021604

PLOT DATE : 12/13/2016 9:24 AM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CONTOUR MAP	SHEET 79	E

2

2

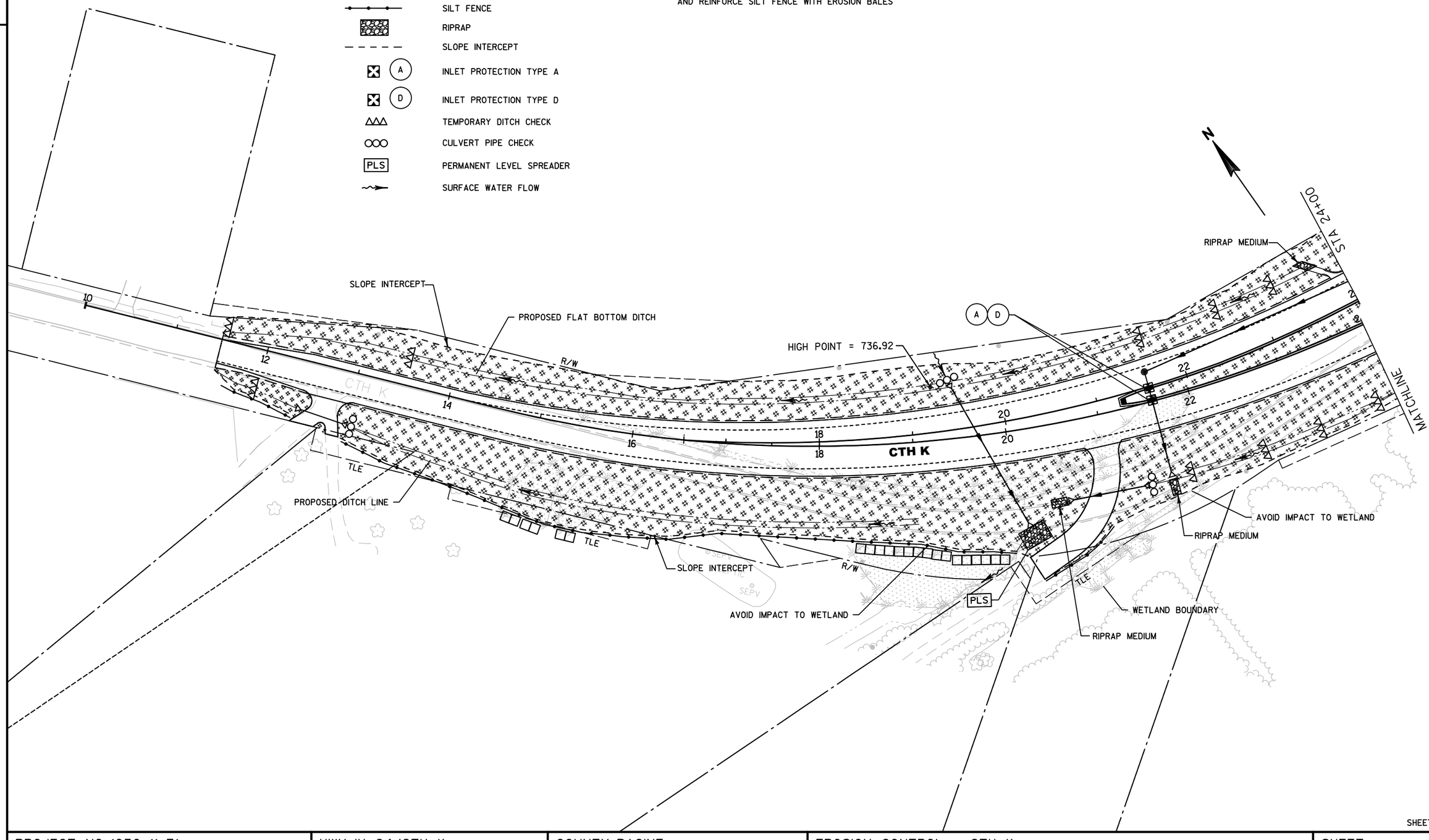
LEGEND

- EROSION BALES
- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIPRAP
- SLOPE INTERCEPT
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- PLS PERMANENT LEVEL SPREADER
- SURFACE WATER FLOW

NOTE:

PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE RESPECTIVE INLET PROTECTION

PLACE SILT FENCE AT SLOPE INTERCEPTS IN NON-PERMITTED WETLANDS AND REINFORCE SILT FENCE WITH EROSION BALES



SHEET 1 OF 5

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	EROSION CONTROL - CTH K	SHEET 80	E

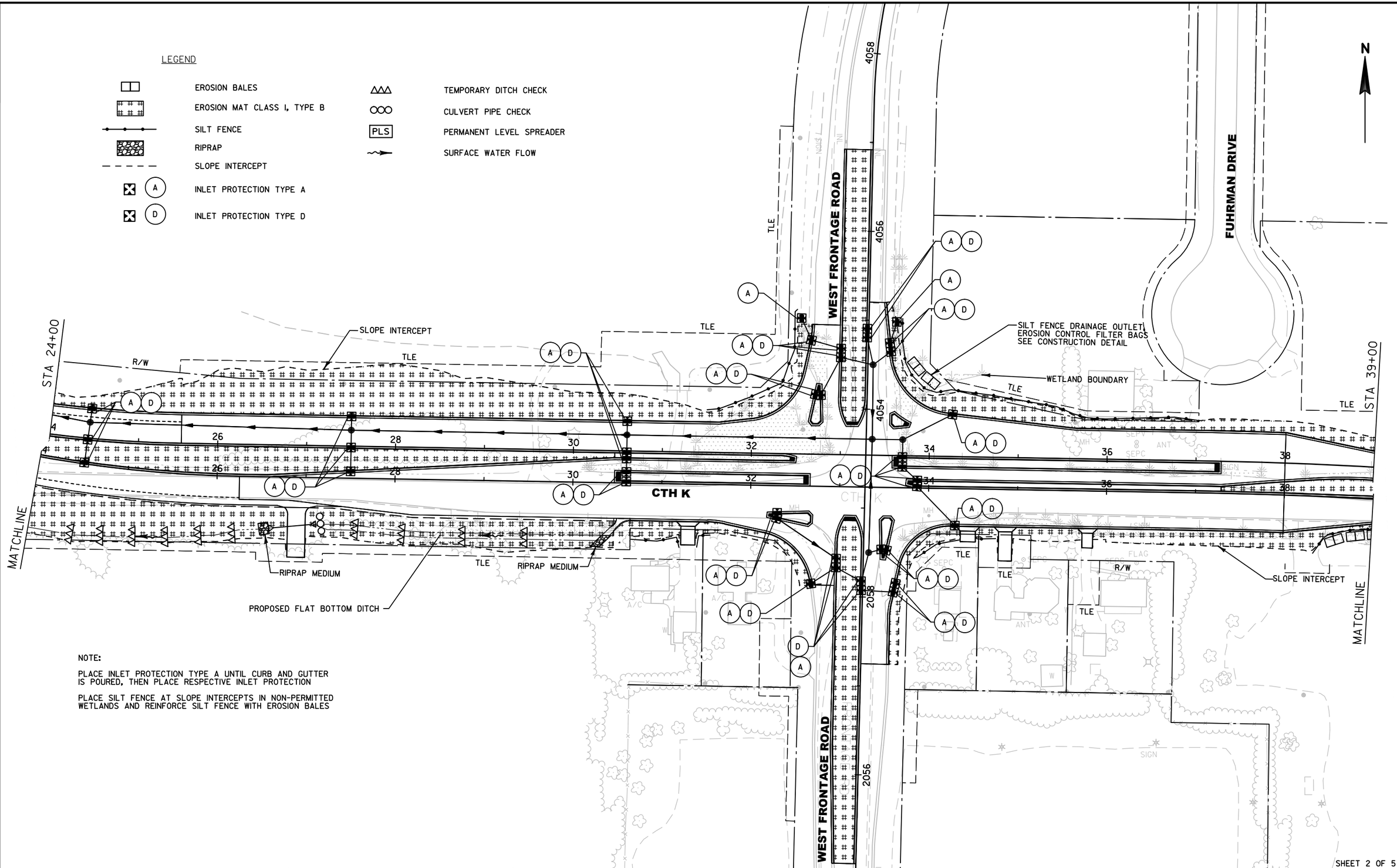
FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\022001_EC.DWG
LAYOUT NAME - 022001_EC

PLOT DATE : 1/3/2017 7:52 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

LEGEND

- EROSION BALES
- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIPRAP
- SLOPE INTERCEPT
- (A) INLET PROTECTION TYPE A
- (D) INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- PLS PERMANENT LEVEL SPREADER
- SURFACE WATER FLOW



NOTE:

PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE RESPECTIVE INLET PROTECTION

PLACE SILT FENCE AT SLOPE INTERCEPTS IN NON-PERMITTED WETLANDS AND REINFORCE SILT FENCE WITH EROSION BALES

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	EROSION CONTROL - CTH K	SHEET 81 E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\022001_EC.DWG
LAYOUT NAME - 022002_EC
PLOT DATE : 3/20/2017 8:40 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTE:

PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE RESPECTIVE INLET PROTECTION

PLACE SILT FENCE AT SLOPE INTERCEPTS IN NON-PERMITTED WETLANDS AND REINFORCE SILT FENCE WITH EROSION BALES

IH 41/94 SB

IH 41/94 NB

IH 94/USH 41

CTH K

EAST FRONTAGE ROAD

STA 39+00

STA 53+50

MATCHLINE

MATCHLINE

RIPRAP MEDIUM

RIPRAP MEDIUM

SLOPE INTERCEPT

SLOPE INTERCEPT

WETLAND BOUNDARY

AVOID IMPACT TO WETLAND

TLE

R/W

CANOPY

FILLER CAPS

LEGEND

- EROSION BALES
- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- PERMANENT LEVEL SPREADER
- SURFACE WATER FLOW

SHEET 3 OF 5

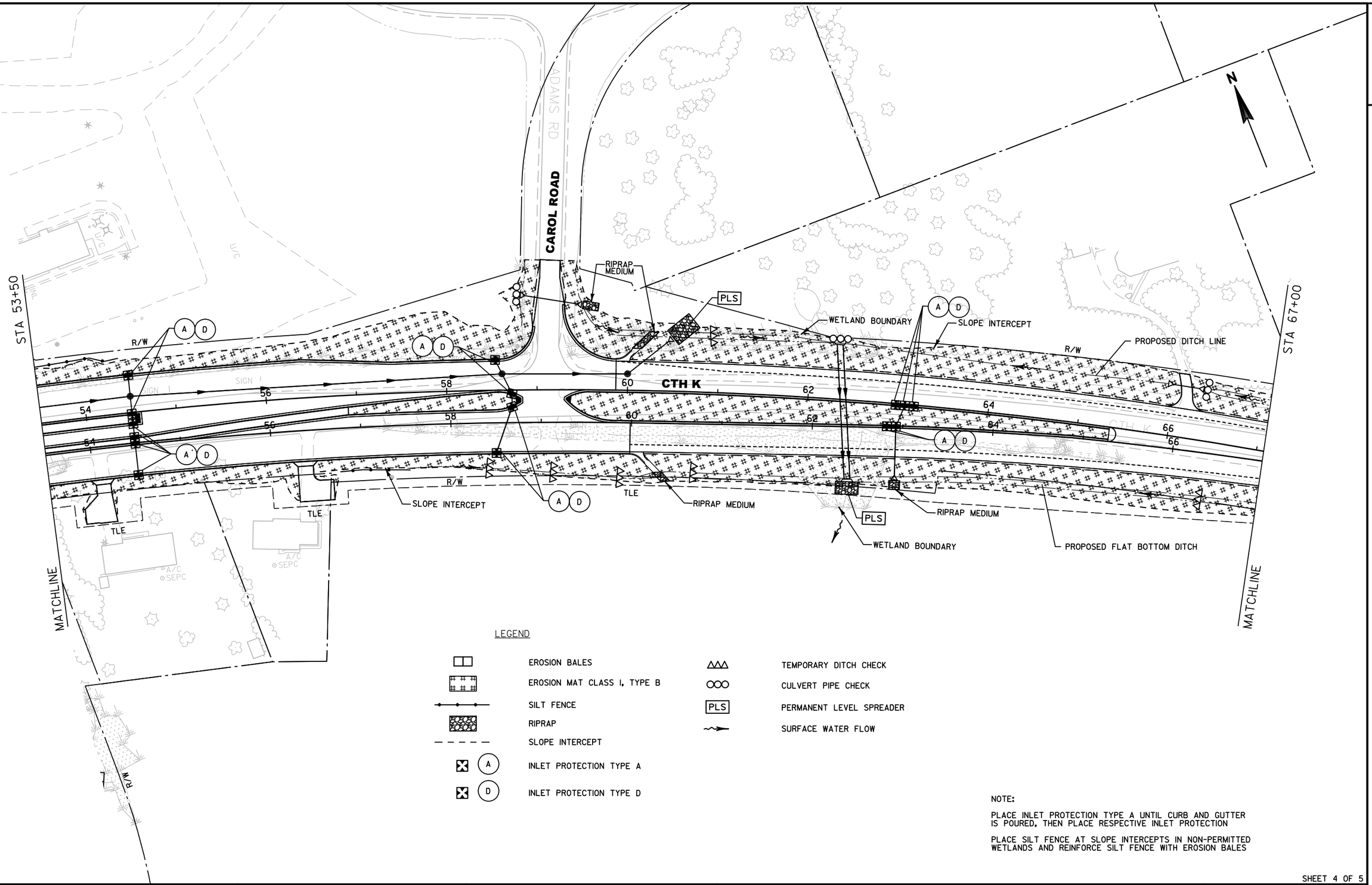
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	EROSION CONTROL - CTH K	SHEET 82 E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\022001_EC.DWG
LAYOUT NAME - 022003_EC

PLOT DATE : 1/3/2017 7:54 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



LEGEND

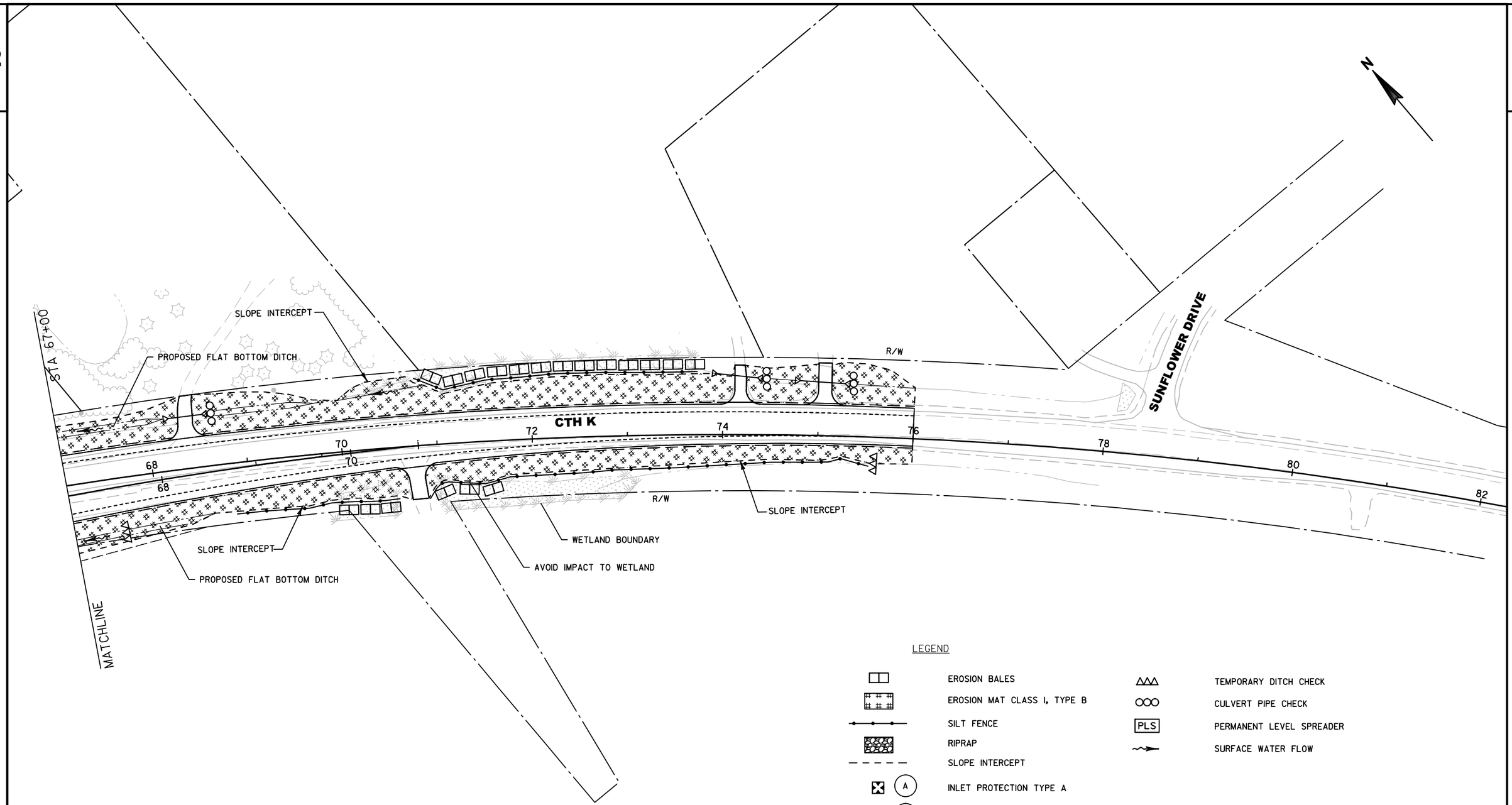
- EROSION BALES
- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIPRAP
- SLOPE INTERCEPT
- INLET PROTECTION TYPE A
- INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- PERMANENT LEVEL SPREADER
- SURFACE WATER FLOW

NOTE:

PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE RESPECTIVE INLET PROTECTION

PLACE SILT FENCE AT SLOPE INTERCEPTS IN NON-PERMITTED WETLANDS AND REINFORCE SILT FENCE WITH EROSION BALES

2



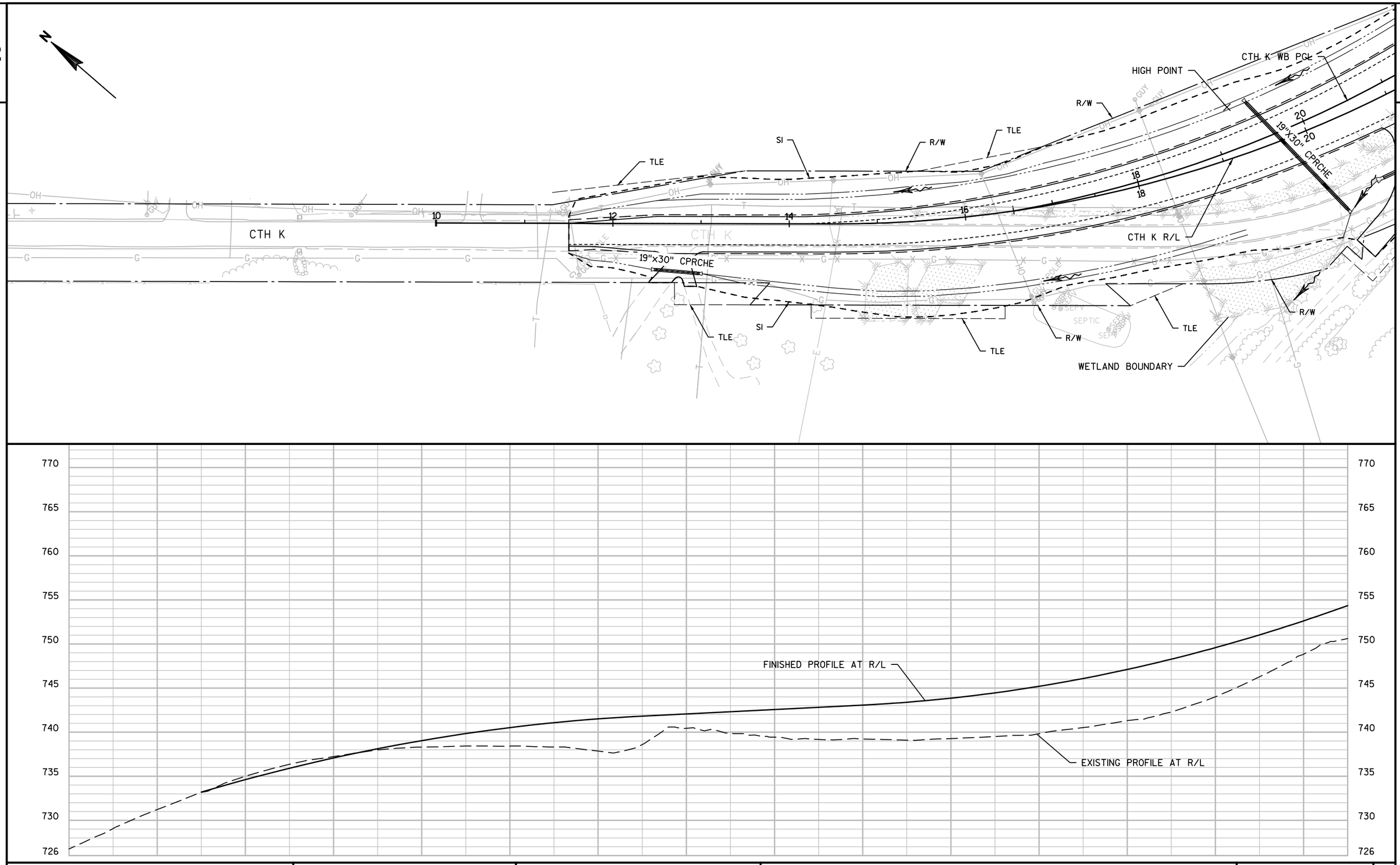
LEGEND

- EROSION BALES
- EROSION MAT CLASS I, TYPE B
- SILT FENCE
- RIPRAP
- SLOPE INTERCEPT
- A — INLET PROTECTION TYPE A
- D — INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECK
- PLS — PERMANENT LEVEL SPREADER
- SURFACE WATER FLOW

NOTE:

PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED, THEN PLACE RESPECTIVE INLET PROTECTION

PLACE SILT FENCE AT SLOPE INTERCEPTS IN NON-PERMITTED WETLANDS AND REINFORCE SILT FENCE WITH EROSION BALES

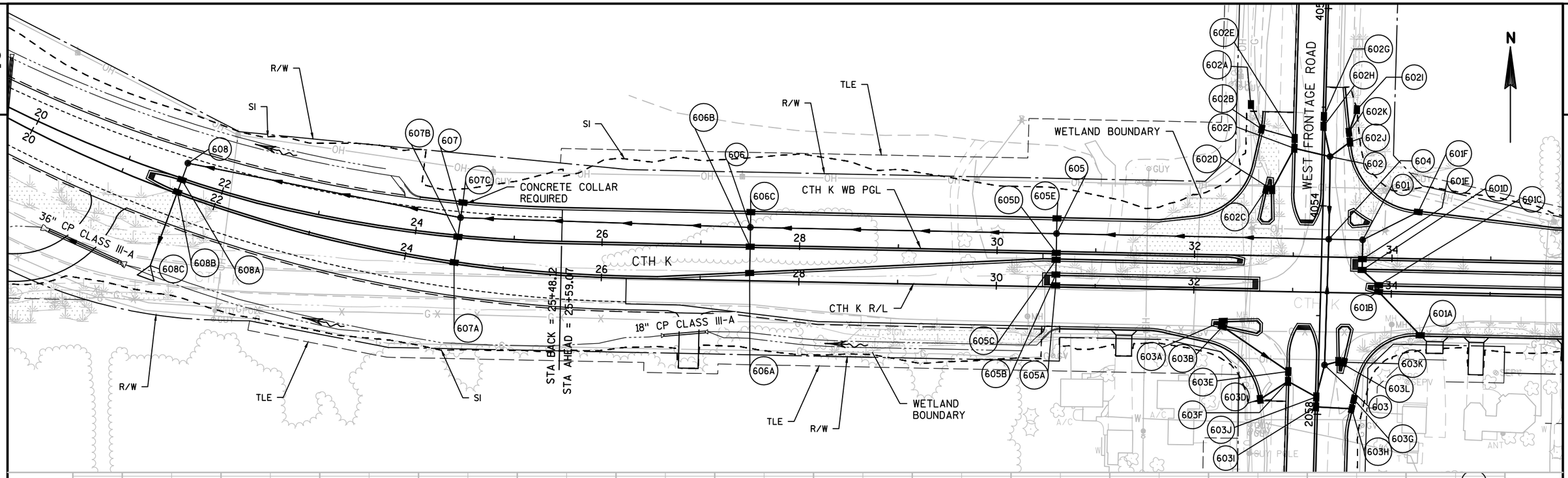


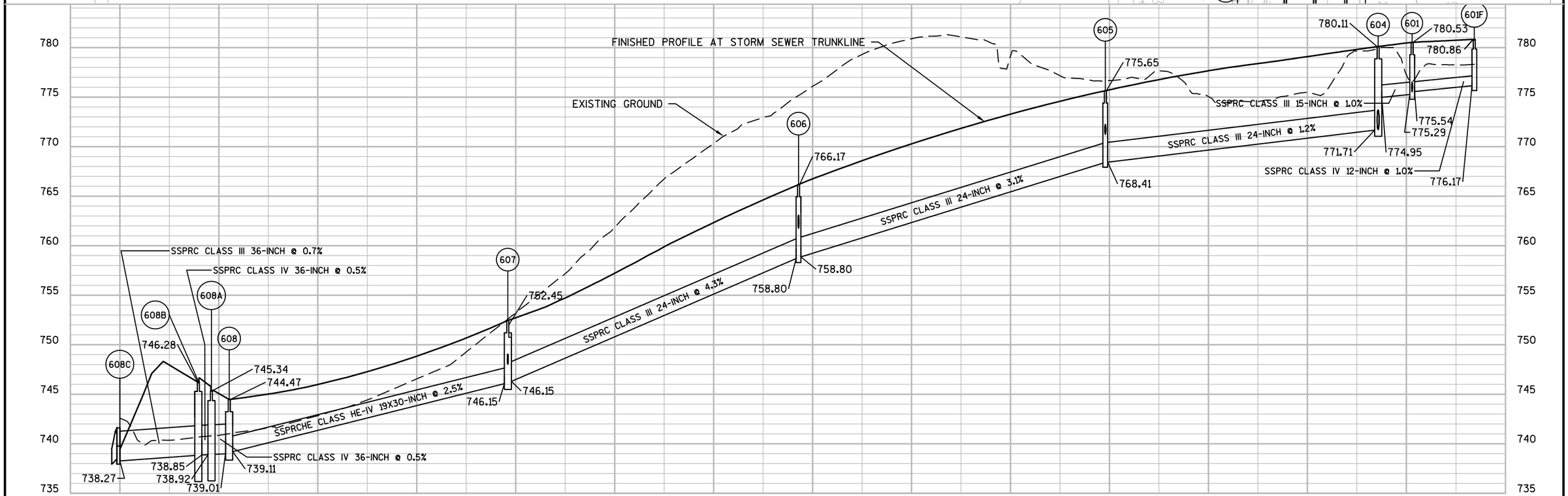
PROJECT NO:1030-11-71	HWY:IH 94/CTH K	COUNTY:RACINE	STORM SEWER	SHEET 85	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\022501_SS.DWG
LAYOUT NAME - 022500

PLOT DATE : 3/30/2017 4:22 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



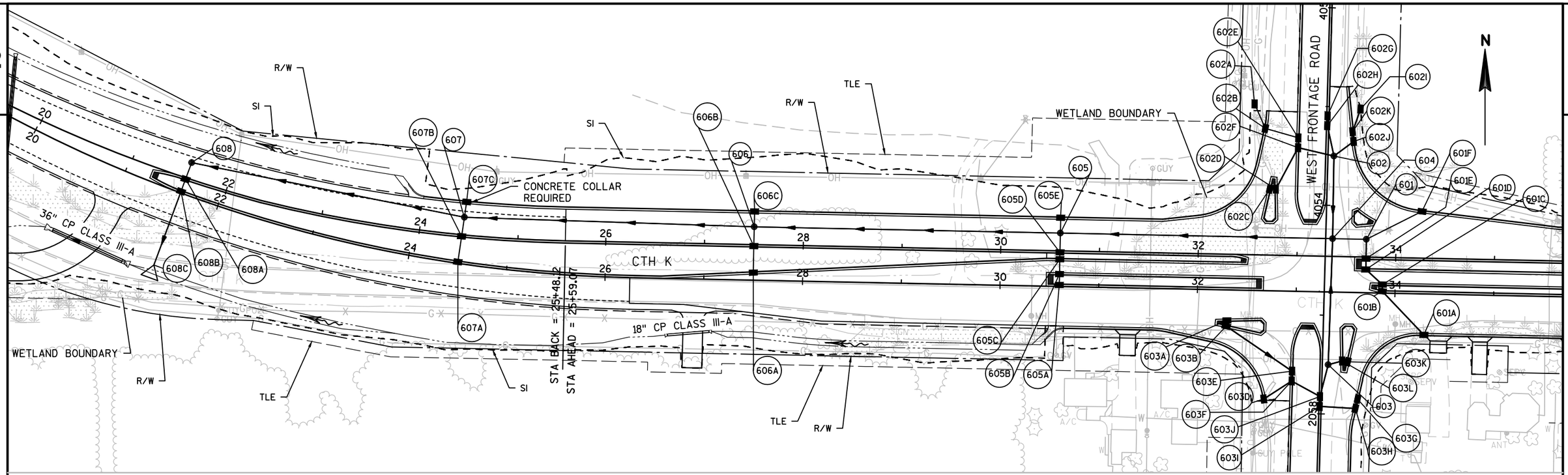


PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	STORM SEWER	SHEET 86	E

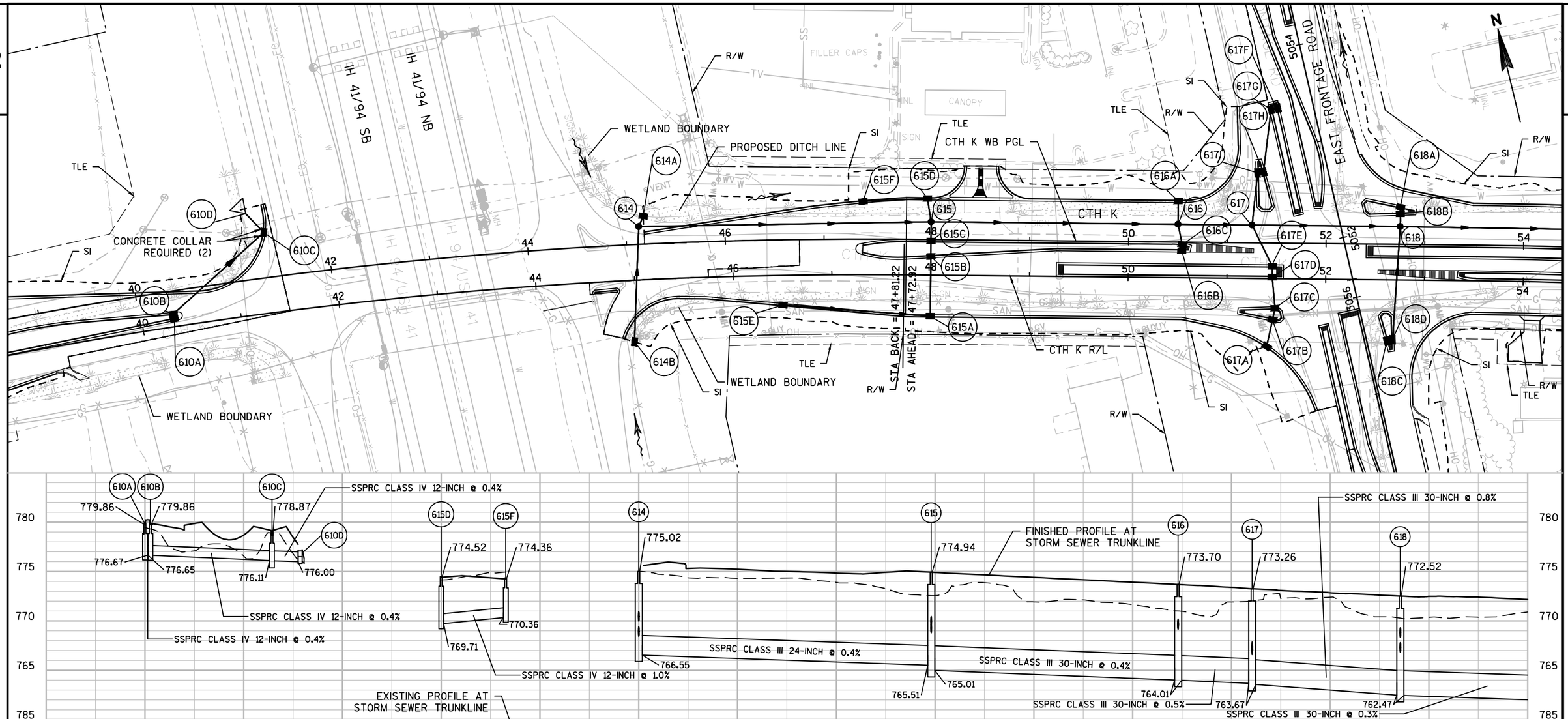
FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\022501_SS.DWG
LAYOUT NAME - 022501

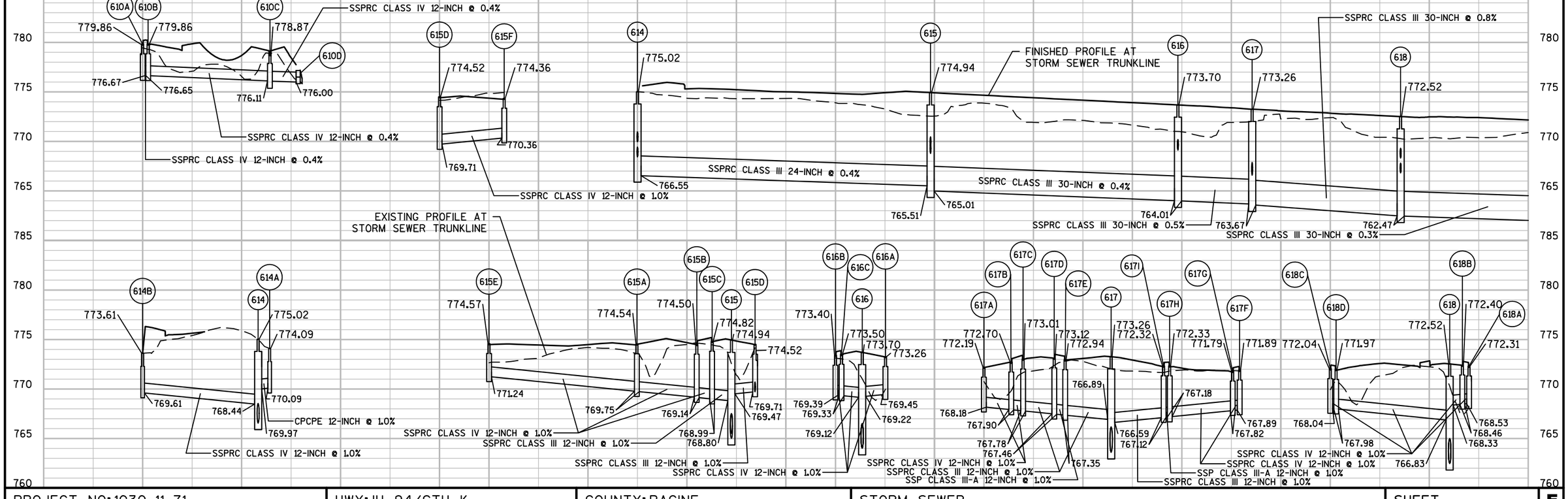
PLOT DATE : 3/30/2017 4:23 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 41



PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	STORM SEWER	SHEET 87	E

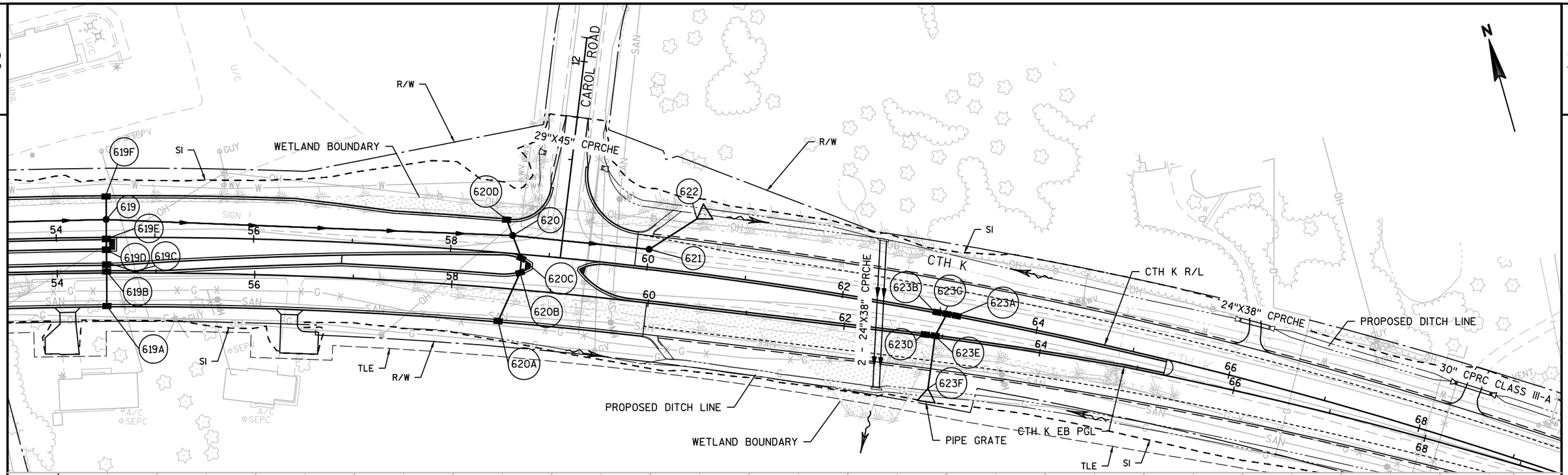


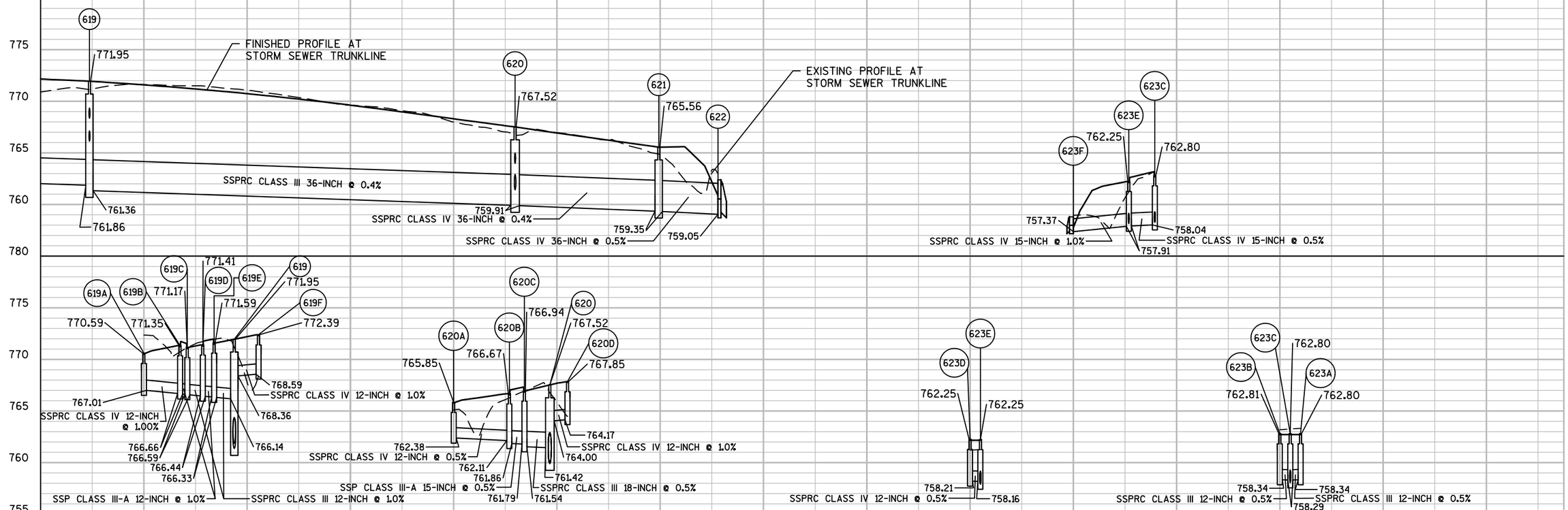


PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	STORM SEWER	SHEET 88	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\022503_SS.DWG
LAYOUT NAME - 022503
PLOT DATE : 4/3/2017 12:53 PM
PLOT BY : SPAETH, MICHELE L
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 41

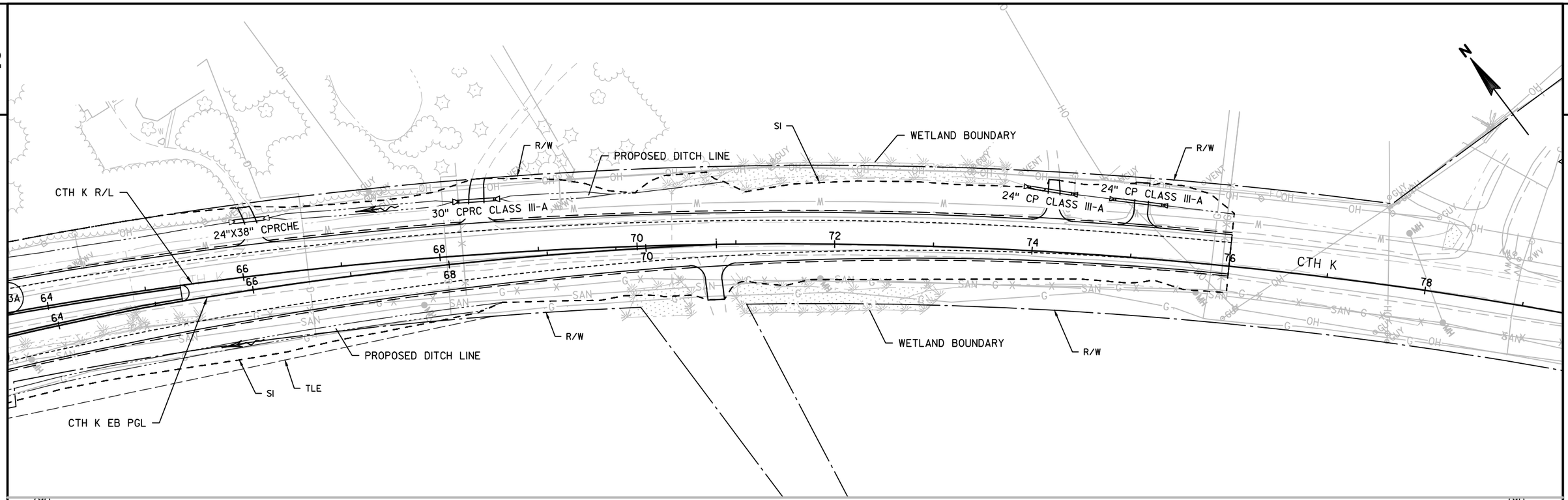
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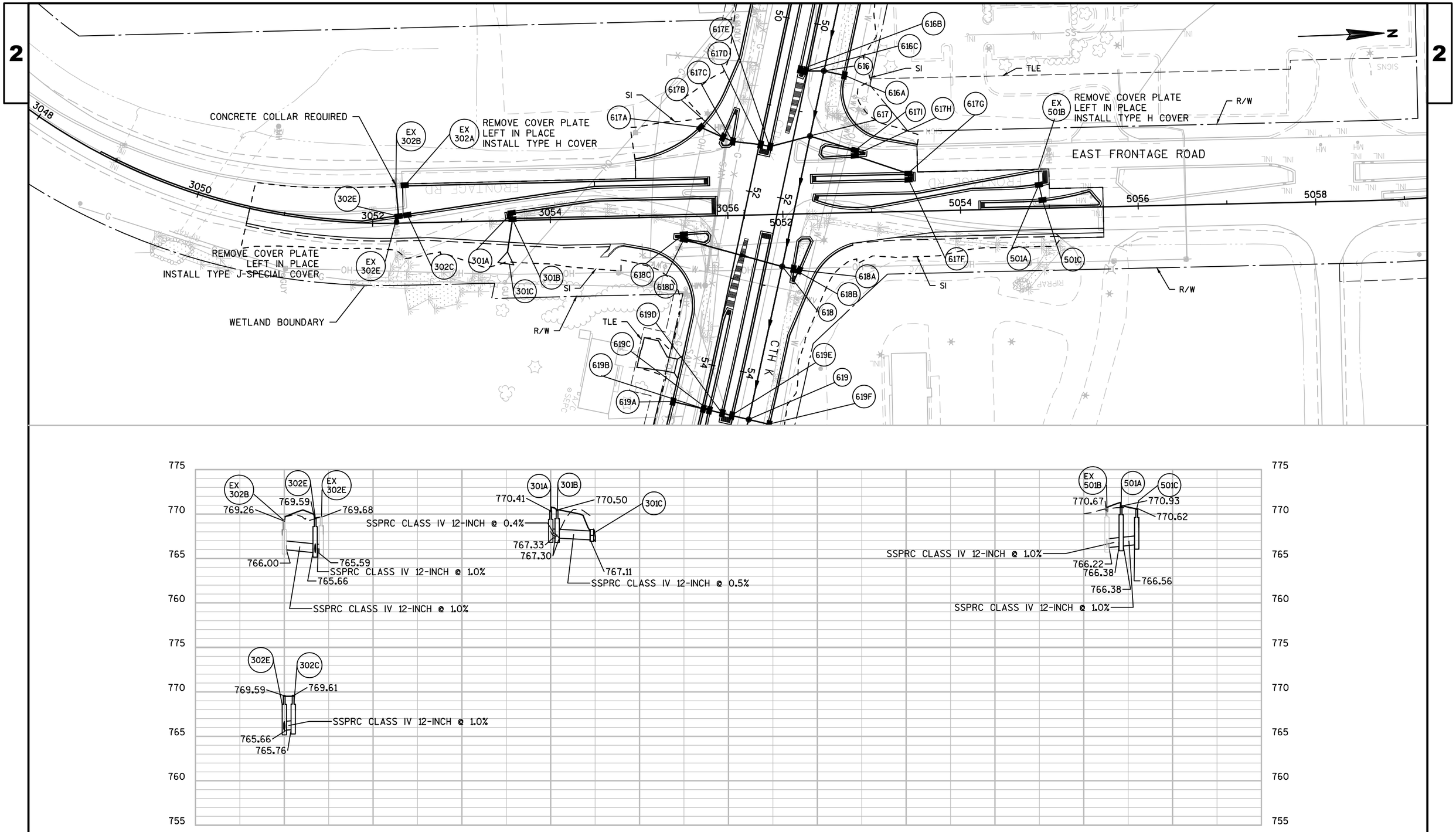
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	STORM SEWER	SHEET 89 E

2



PROJECT NO:1030-11-71	HWY:IH 94/CTH K	COUNTY:RACINE	STORM SEWER	SHEET	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\022503_SS.DWG
LAYOUT NAME - 022504B
PLOT DATE : 4/3/2017 12:53 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	STORM SEWER	SHEET 91	E

STA. 50+71WB, 58.2' LT
ADJUST WATER VALVE
EXISTING ELEV = 772.0±
PROPOSED ELEV = 772.9±

STA. 50+98WB, 52.8' LT
ADJUST WATER VALVE
EXISTING ELEV = 769.2±
PROPOSED ELEV = 772.7±

STA. 51+03WB, 57.7' LT
ADJUST WATER VALVE
EXISTING ELEV = 769.2±
PROPOSED ELEV = 772.6±

EAST FRONTAGE ROAD

50+00WB
51+00WB
52+00
CTH K
+00EB
51+00EB
52+00EB

N

STA. 5055+50, 1.9' LT
ADJUSTING INLET COVER
EXISTING FLOWLINE ELEV = 770.0±
PROPOSED FLOWLINE ELEV = 769.9±

STA. 5055+40, 16.6' LT
ADJUSTING INLET COVER
EXISTING FLOWLINE ELEV = 770.1±
PROPOSED FLOWLINE ELEV = 770.2±

5056+00
5055+00
EAST FRONTAGE ROAD
SLOPE INTERCEPT

SLOPE INTERCEPT

STA. 53+04WB, 47.9' LT
ADJUST WATER VALVE
EXISTING ELEV = 770.9±
PROPOSED ELEV = 772.4±

STA. 52+99WB, 42.7' LT
ADJUST WATER VALVE
EXISTING ELEV = 769.9±
PROPOSED ELEV = 772.4±

53+00WB
54+00WB
53+00EB
54+00EB
CTH K

N

2

SLOPE INTERCEPT

STA. 55+69WB, 53.8' LT
ADJUST WATER VALVE
EXISTING ELEV = 771.2±
PROPOSED ELEV = 772.4±

55+00WB
56+00WB
CTH K
55+00EB
56+00EB

N

STA. 10+68, 43.0' LT
ADJUST WATER VALVE
EXISTING ELEV = 765.6±
PROPOSED ELEV = 767.3±

11+00
CAROL ROAD

59+00WB
59+00EB
60+00WB
CTH K
60+00EB

N

STA. 64+28WB, 34.5' LT
ADJUST WATER VALVE
EXISTING ELEV = 762.2±
PROPOSED ELEV = 763.8±

SLOPE INTERCEPT

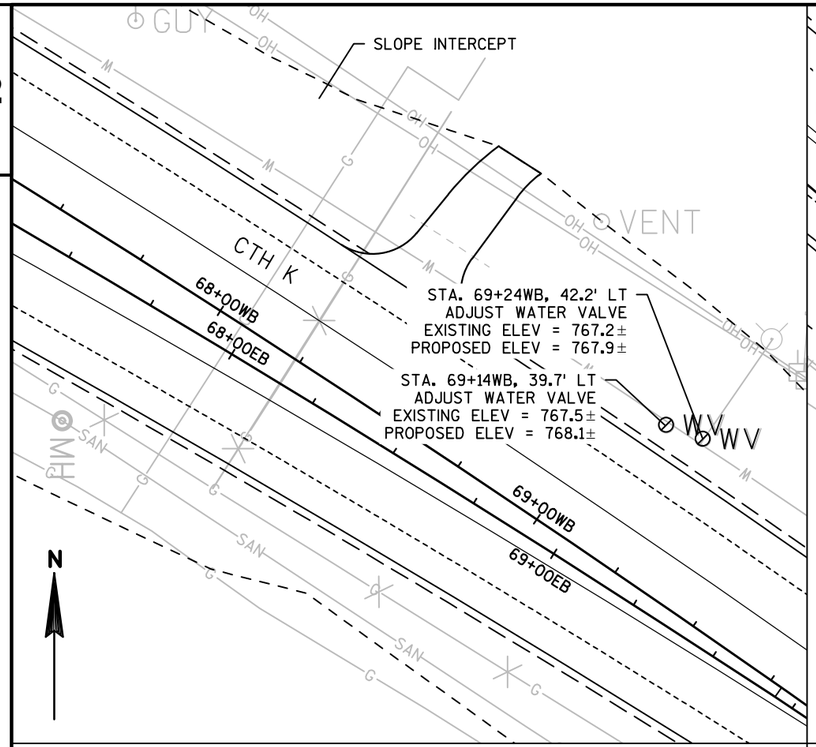
STA. 64+39WB, 37.4' LT
ADJUST WATER VALVE
EXISTING ELEV = 761.8±
PROPOSED ELEV = 763.4±

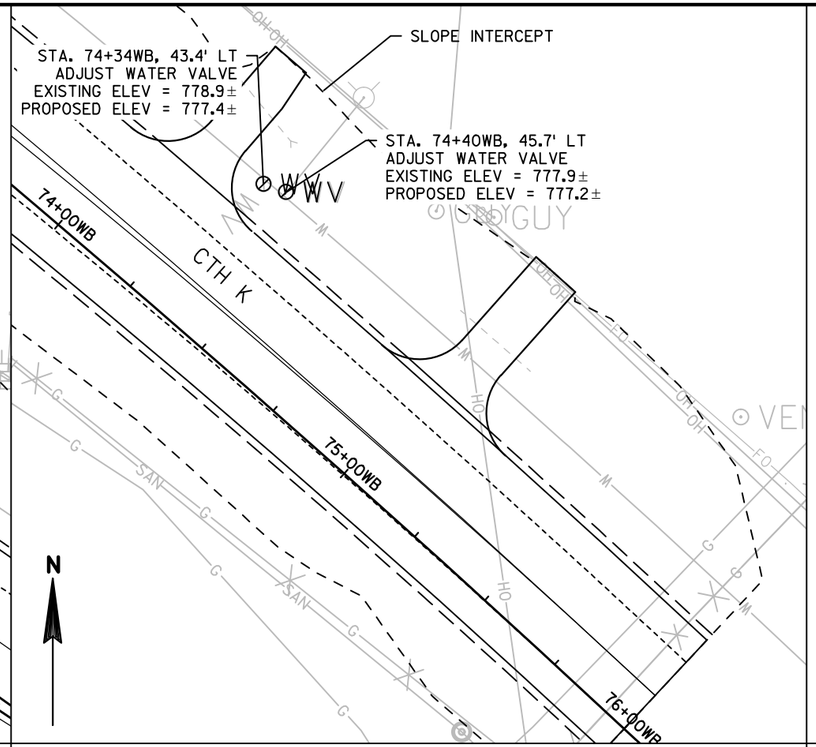
64+00WB
64+00EB
CTH K
65+00WB
65+00EB

N

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	UTILITY ADJUSTMENTS	SHEET	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\023000_UP.DWG
LAYOUT NAME - 023001
PLOT DATE : 1/31/2017 3:33 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 42





2

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	UTILITY ADJUSTMENTS	SHEET 93	E

LEGEND

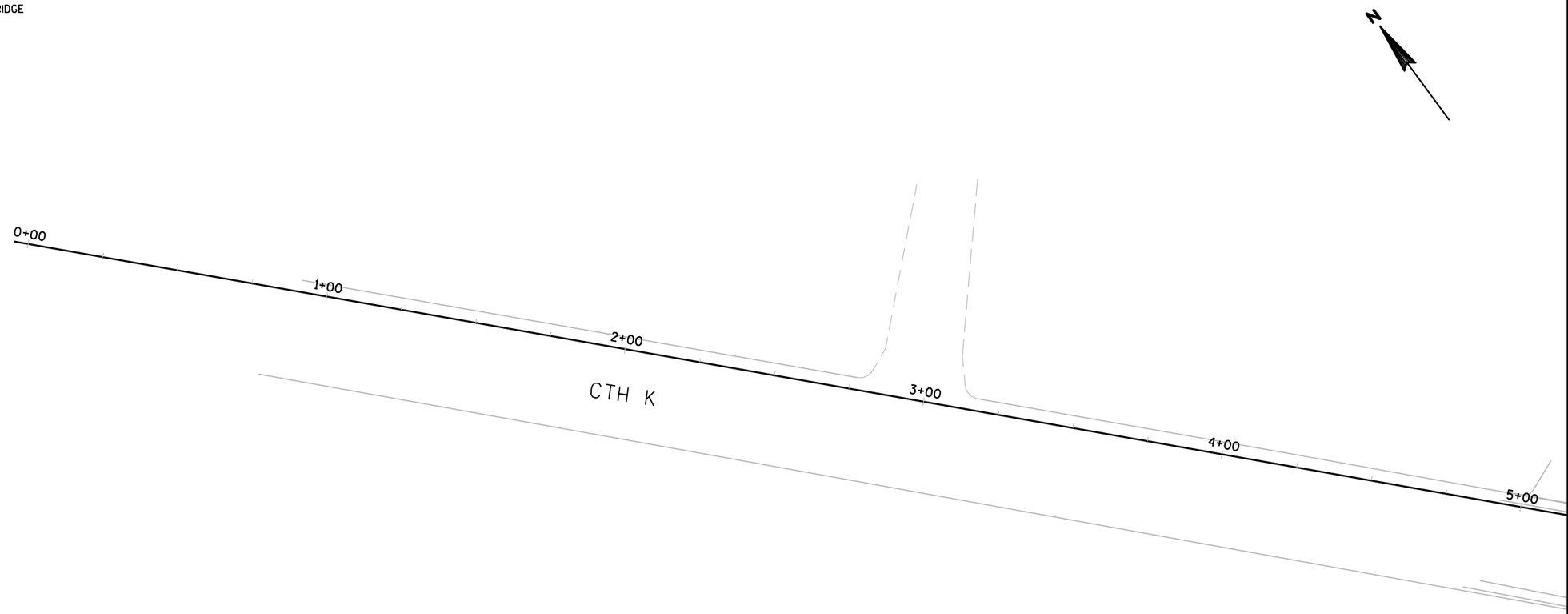
EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE



NO SIGNS ON THIS SHEET

2

LEGEND

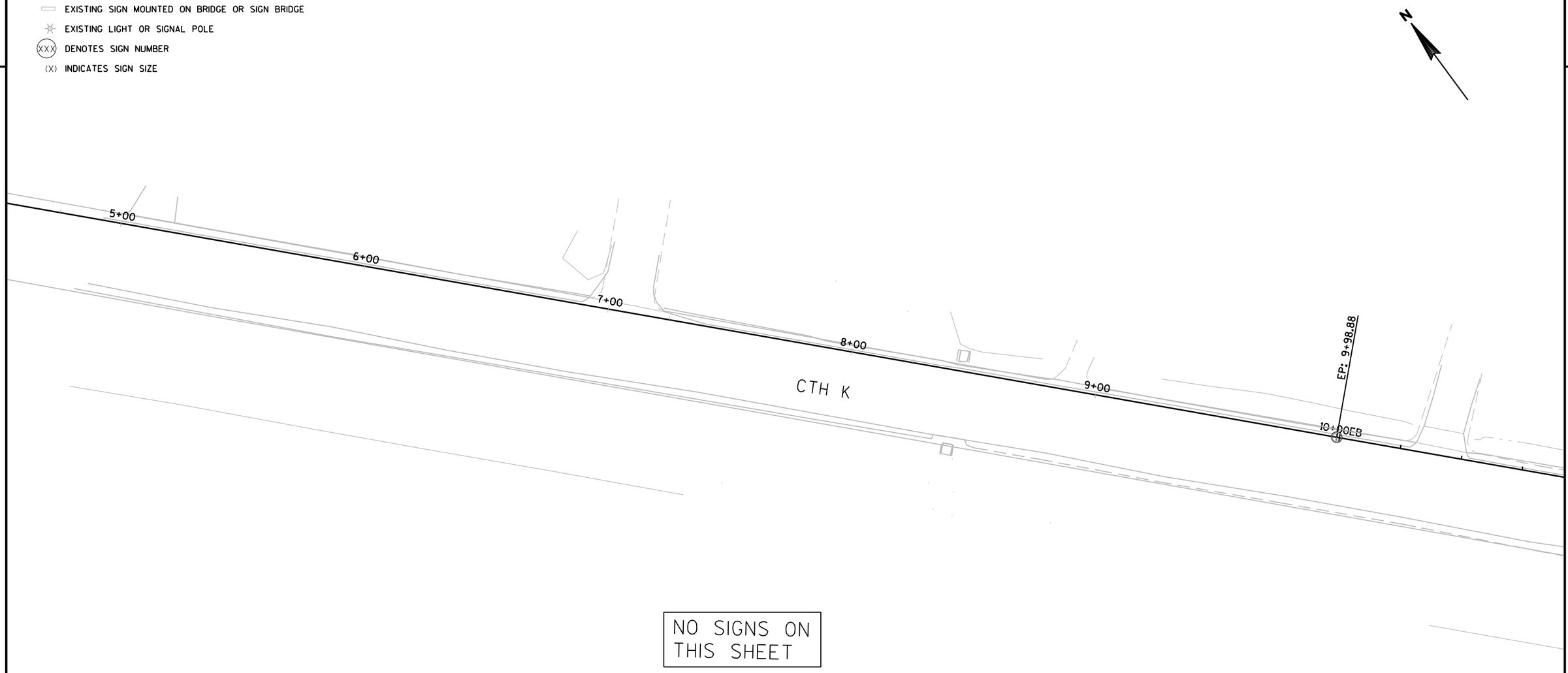
EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE



NO SIGNS ON THIS SHEET

2

SHEET 2 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 95	E

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

11+00EB

12+00EB

13+00EB

14+00EB

15+00EB

16+00EB

CTH K

1R

REMOVE

35 M.P.H.

REMOVE

SHEET 3 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 96	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023101_PS.DWG
LAYOUT NAME - 023103_PS

PLOT DATE : 11/23/2016 8:51 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

17+00WB
17+00EB
18+00WB
18+00EB
19+00WB
19+00EB
20+00WB
20+00EB
21+00WB
21+00EB
22+00WB
22+00EB

2R SPEED LIMIT 55 REMOVE

5R NEW TRAFFIC PATTERN AHEAD REMOVE

3R REMOVE

4R REMOVE

SEPV SEPTIC SEPV

CTH K

SHEET 4 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 97	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023101_PS.DWG
LAYOUT NAME - 023104_PS

PLOT DATE : 11/23/2016 8:52 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

2

23+00WB

24+00WB

25+00WB

26+00WB

27+00WB

28+00WB

23+00EB

24+00EB

25+00EB

26+00EB

27+00EB

28+00EB

CTH K

6R 7R

REMOVE
MOVE SOLAR BEACON FLASHER ASSEMBLIES SEE PERMANENT SIGNING PLAN

8R

REDUCED SPEED AHEAD
35 MPH

REMOVE

9R

ONLY

REMOVE

10R

JCT
INTERSTATE 41
INTERSTATE 94

REMOVE

SHEET 5 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 98	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023101_PS.DWG
LAYOUT NAME - 023105_PS

PLOT DATE : 11/23/2016 8:52 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : 1 IN:40 FT

2

SEE SHEET 19

18R

REMOVE

SEE SHEET 19

19R

LANE CLOSED

REMOVE

N

11R

35 M.P.H.

REMOVE

17R

STOP

TRAFFIC ON CO DOES NOT STOP

REMOVE

16R

WEST FRONTAGE ROAD

REMOVE

W. FRONTAGE RD.

MH

4055+00

4054+00

29+00WB 30+00WB 31+00WB 32+00WB 33+00WB 34+00WB

29+00EB 30+00EB 31+00EB 32+00EB 33+00EB 34+00EB

CTH K

SIGN

West Frontage Rd NORTH SOUTH

REMOVE

12R

13R

SPEED LIMIT 55

REMOVE

14R

WEST FRONTAGE ROAD

REMOVE

A/C

W

MH

SEPC

T

2059+00

2058+00

15R

STOP

TRAFFIC ON CO DOES NOT STOP

REMOVE

SEE SHEET 18

SEE SHEET 18

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 6 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 99 E

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

2

20R
ALTERNATE SOUTH / ALTERNATE EAST / ALTERNATE NORTH / ALTERNATE WEST
41 94 41 94
REMOVE

24R
West Frontage Rd
SOUTH NORTH
REMOVE

25R
ONLY
REMOVE

ALTERNATE SOUTH / ALTERNATE EAST / ALTERNATE NORTH / ALTERNATE WEST
41 94 41 94
MOVE
SEE PERMANENT SIGNING PLAN

WELCOME CRIME WATCH
MOVE
SEE PERMANENT SIGNING PLAN (LOCAL SIGN)

35+00WB 36+00WB 37+00WB 38+00WB 39+00WB 40+00WB 41+

35+00EB 36+00EB 37+00EB 38+00EB 39+00EB 40+00EB 41+

CTH K

21R
REMOVE

RAMP CLOSED USE ALT ROUTE
22R
REMOVE

23R
SOUTH EAST
41 94
REMOVE

Milwaukee
Chicago
MOVE
SEE PERMANENT SIGNING PLAN

WEST
COUNTY K
SPEED LIMIT 35
MOVE
SEE PERMANENT SIGNING PLAN

SHEET 7 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 100	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023101_PS.DWG
LAYOUT NAME - 023107_PS

PLOT DATE : 11/23/2016 8:52 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

INL

IH 94/ USH 41

CTH K

41+00WB 42+00WB 43+00WB 44+00WB 45+00WB 46+00WB 47+00WB

41+00EB 42+00EB 43+00EB 44+00EB 45+00EB 46+00EB 47+00EB

26R

27R

COVERED SIGN (J ASSEMBLY) MOVE SEE PERMANENT SIGNING PLAN

REMOVE

STOP R1-1 ESTR

DO NOT ENTER R5-1 ESTR

R3-1 ESTR

STOP R1-1 ALL WAY R1-3-P ESTR

STOP R1-1 R1-3-P ALL WAY R3-2 ESTR

FREEWAY ENTRANCE RAMP ONLY ESTR

STOP R1-1 ESTR

NO PARKING ANY TIME R7-1-R MOVE SEE PERMANENT SIGNING PLAN

ALTERNATE NORTH INTERSTATE 41 ALTERNATE WEST INTERSTATE 94 MOVE SEE PERMANENT SIGNING PLAN

NORTH INTERSTATE 41 WEST INTERSTATE 94 MOVE SEE PERMANENT SIGNING PLAN

ONE WAY R6-2-L MOVE SEE PERMANENT SIGNING PLAN

DO NOT ENTER R5-1 MOVE SEE PERMANENT SIGNING PLAN

ONE WAY R6-2-R ESTR

ONE WAY R6-2-R ESTR

STOP R1-1 REMOVE

NO PARKING ANY TIME R7-1-L MOVE

SOUTH INTERSTATE 41 EAST INTERSTATE 94 ESTR

Chicago ESTR

FREEWAY ENTRANCE RAMP ONLY ESTR

STOP R1-1 R1-3-P ALL WAY ESTR

R3-1 ESTR

ONE WAY R6-2-L MOVE SEE PERMANENT SIGNING PLAN

STOP R1-1 ESTR

STOP R1-1 MOVE SEE PERMANENT SIGNING PLAN

EAST COUNTY K MOVE SEE PERMANENT SIGNING PLAN

SPEED LIMIT 35 R2-1 MOVE SEE PERMANENT SIGNING PLAN

CALEDONIA MOVE SEE PERMANENT SIGNING PLAN

SOUTH INTERSTATE 41 EAST INTERSTATE 94 ESTR

STOP R1-1 ALL WAY R1-3-P R3-2 ESTR

DO NOT ENTER R5-1 WRONG WAY R5-1A ESTR

DO NOT ENTER R5-1 MOVE SEE PERMANENT SIGNING PLAN

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE
- ESTR EXISTING SIGN TO REMAIN

SHEET 8 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 101	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023101_PS.DWG
LAYOUT NAME - 023108_PS

PLOT DATE : 11/23/2016 8:52 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

CANOPY

INL

SIGN

SEE SHEET 25

SEE SHEET 25

EAST FRONTAGE RD.

28R NORTH WEST 41 94 — REMOVE REMOVE

29R RAMP CLOSED USE ALT ROUTE — REMOVE

30R NO PARKING ANY TIME — REMOVE

31R — REMOVE

34R DO NOT ENTER — REMOVE

32R 33R STOP — REMOVE

35R — REMOVE

36R SPEED LIMIT 35 — REMOVE

37R EAST FRONTAGE ROAD — REMOVE

47+00WB 48+00WB 49+00WB 50+00WB 51+00WB 52+00WB 53+00WB

5053+00

5052+00

CTH K

47+00EB 48+00EB 49+00EB 50+00EB 51+00EB 52+00EB 53+00EB

3056+00

3055+00

45R East Frontage Rd NORTH SOUTH

44R ONLY ONLY ONLY — REMOVE

43R ALTERNATE NORTH WEST 41 94 / ALTERNATE SOUTH EAST 41 94 — REMOVE

42R EAST FRONTAGE ROAD — REMOVE

41R STOP — REMOVE

40R — REMOVE

38R DO NOT ENTER — REMOVE

39R STOP — REMOVE

EAST FRONTAGE RD.

SEE SHEET 24

SEE SHEET 24

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 9 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 102	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023101_PS.DWG
LAYOUT NAME - 023109_PS

PLOT DATE : 11/23/2016 8:52 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

47R
East Frontage Rd
SOUTH NORTH
REMOVE

48R
ONLY ONLY ONLY
REMOVE

STREET NAME SIGN BY MUNICIPALITY

52R STOP
REMOVE

50R

51R

REMOVE
SEE MISC QUANTITIES FOR REMOVAL OF SOLAR BEACONS

SIGN

SIGN

53+00WB 54+00WB 55+00WB 56+00WB 57+00WB 58+00WB 59+00WB

CTH K

53+00EB 54+00EB 55+00EB 56+00EB 57+00EB 58+00EB 59+00EB

46R
EAST
COUNTY
K

49R
NO PARKING ANY TIME
REMOVE

A/C
SEPC

A/C
SEPC

SHEET 10 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 103	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023101_PS.DWG
LAYOUT NAME - 023110_PS

PLOT DATE : 11/23/2016 8:52 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : 1 IN:40 FT

2

CAROL RD.

R5-2
MOVE
SEE PERMANENT SIGNING PLAN

54R
JCT
INTERSTATE
41
INTERSTATE
94
REMOVE

SPEED LIMIT 35
55R
REMOVE

59+00WB 60+00WB 61+00WB 62+00WB 63+00WB 64+00WB 65+00WB

CTH K

59+00EB 60+00EB 61+00EB 62+00EB 63+00EB 64+00EB 65+00EB

SIGN

Hwy 38 S
Racine 10
53R
REMOVE

MOVE 1 SQUIRREL
SPONSOR
SPONSOR1
SPONSOR2
SPONSOR3
155-56
MOVE

SPEED LIMIT 55
56R
REMOVE

NEW TRAFFIC PATTERN AHEAD
57R
REMOVE

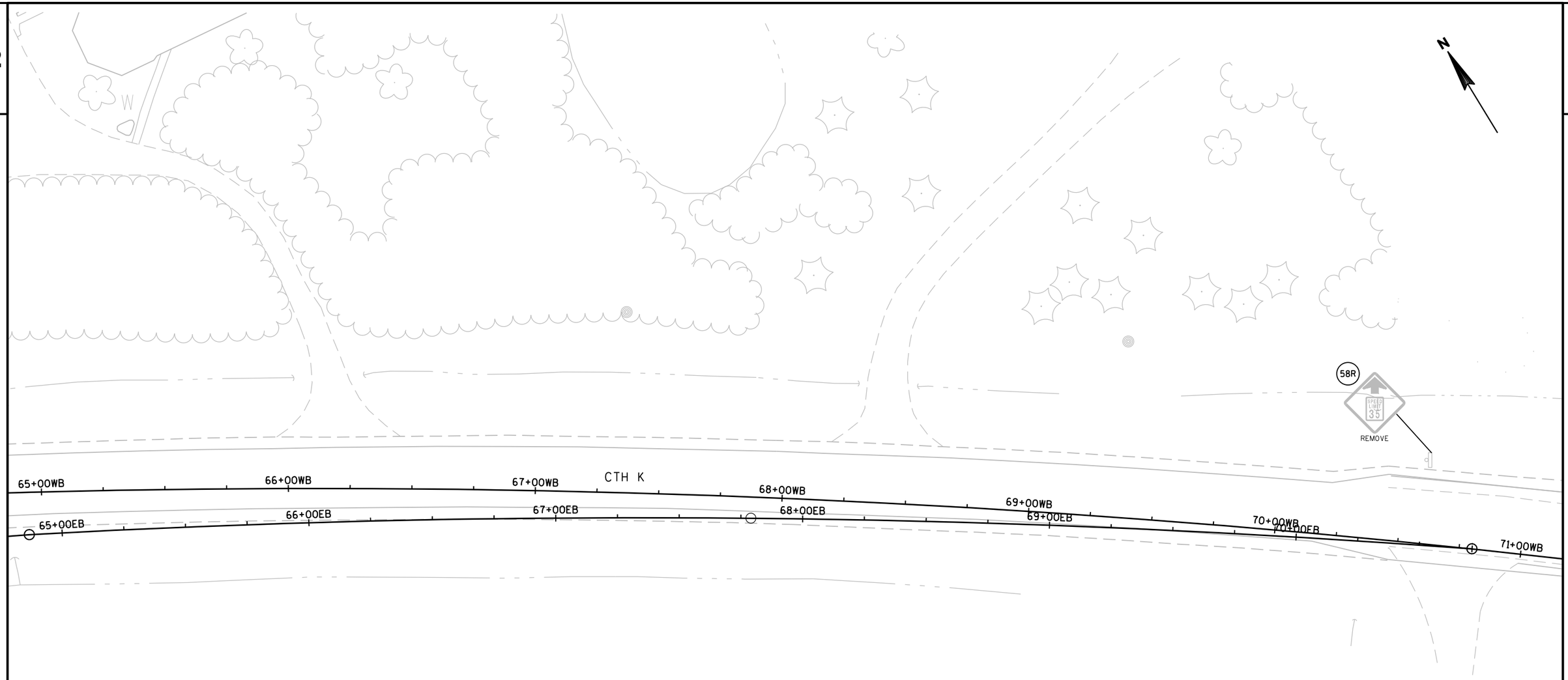
LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 11 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 104	E

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 12 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 105	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023101_PS.DWG
LAYOUT NAME - 023112_PS

PLOT DATE : 11/23/2016 8:52 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE



NO SIGNS ON THIS SHEET

2

SHEET 13 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 106	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023101_PS.DWG
LAYOUT NAME - 023113_PS

PLOT DATE : 11/23/2016 8:52 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

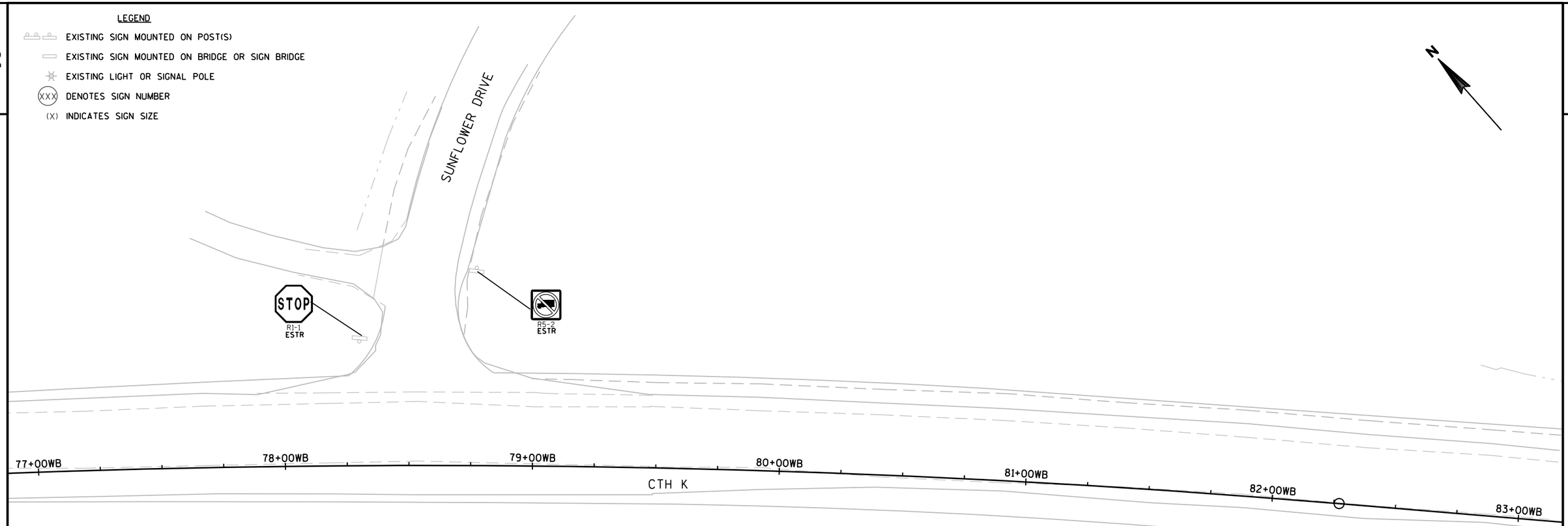
EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE



2

SHEET 14 OF 27

PROJECT NO:1030-11-71	HWY:IH-41/94 @ CTH K	COUNTY:RACINE	SIGNING REMOVAL PLAN	SHEET 107 E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023101_PS.DWG
LAYOUT NAME - 023114_PS

PLOT DATE : 11/23/2016 8:52 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

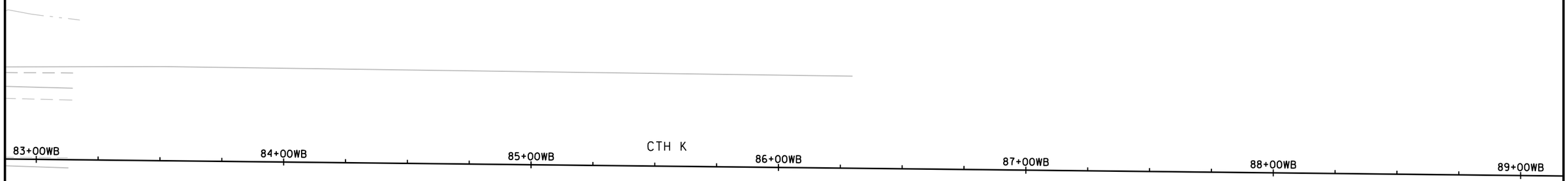
EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE



NO SIGNS ON THIS SHEET

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 108	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023101_PS.DWG
LAYOUT NAME - 023115_PS
PLOT DATE : 11/23/2016 8:53 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

2039+00

2040+00

2041+00

WEST FRONTAGE RD

2042+00

2043+00

2044+00

2045+00

W1-6
ESTR

RIPRAP

RIPRAP

RIPRAP

RIPRAP

RIPRAP

RIPRAP

INL

SHEET 16 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 109	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023101_PS.DWG
LAYOUT NAME - 023116_PS

PLOT DATE : 11/23/2016 8:53 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

WEST FRONTAGE RD

2045+00 2046+00 2047+00 2048+00 2049+00 2050+00 2051+00

WRONG WAY R5-1A ESTR

W6-2 ESTR

R4-7 ESTR

DO NOT ENTER R5-1 ESTR

R4-7 W5-54S ESTR

JCT COUNTY K ESTR

DO NOT ENTER R5-1 ESTR

SHEET 17 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 110 E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023101_PS.DWG
LAYOUT NAME - 023117_PS

PLOT DATE : 11/23/2016 8:53 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

SEE SHEET 6

DO NOT ENTER
R5-1
ESTR

W1-4L
ESTR

SPEED LIMIT 35
R2-1
ESTR

2052+00 2053+00 2054+00 2055+00 2056+00 2057+00

W FRONTAGE RD

59R
REMOVE

2052+00 2053+00 2054+00 2055+00 2056+00 2057+00

R4-7
ESTR

W3-1
ESTR

WEST COUNTY K | EAST COUNTY K | TO INTERSTATE 41 | TO INTERSTATE 94
ESTR
J3-4

WRONG WAY
R5-1A
ESTR

60R
REMOVE

SEE SHEET 6

61R
LANE CLOSED
REMOVE

SHEET 18 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 111	E

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

SEE SHEET 6

62R DO NOT ENTER REMOVE

TO 41 TO 94 EAST COUNTY K WEST COUNTY K ESTR

64R WRONG WAY REMOVE

W3-1 ESTR

5+00 4056+00 4057+00 4058+00 4059+00 4060+00 4061+00

WEST FRONTAGE RD.

63R REMOVE

W1-6 ESTR

SEE SHEET 6

I55-56 MOVE

SPEED LIMIT 35 R2-1 ESTR

W6-2 ESTR

WRONG WAY R5-1A ESTR

W6-3 ESTR

DO NOT ENTER R5-1 ESTR

R4-7

W5-54S ESTR

SHEET 19 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 112 E

2

LEGEND

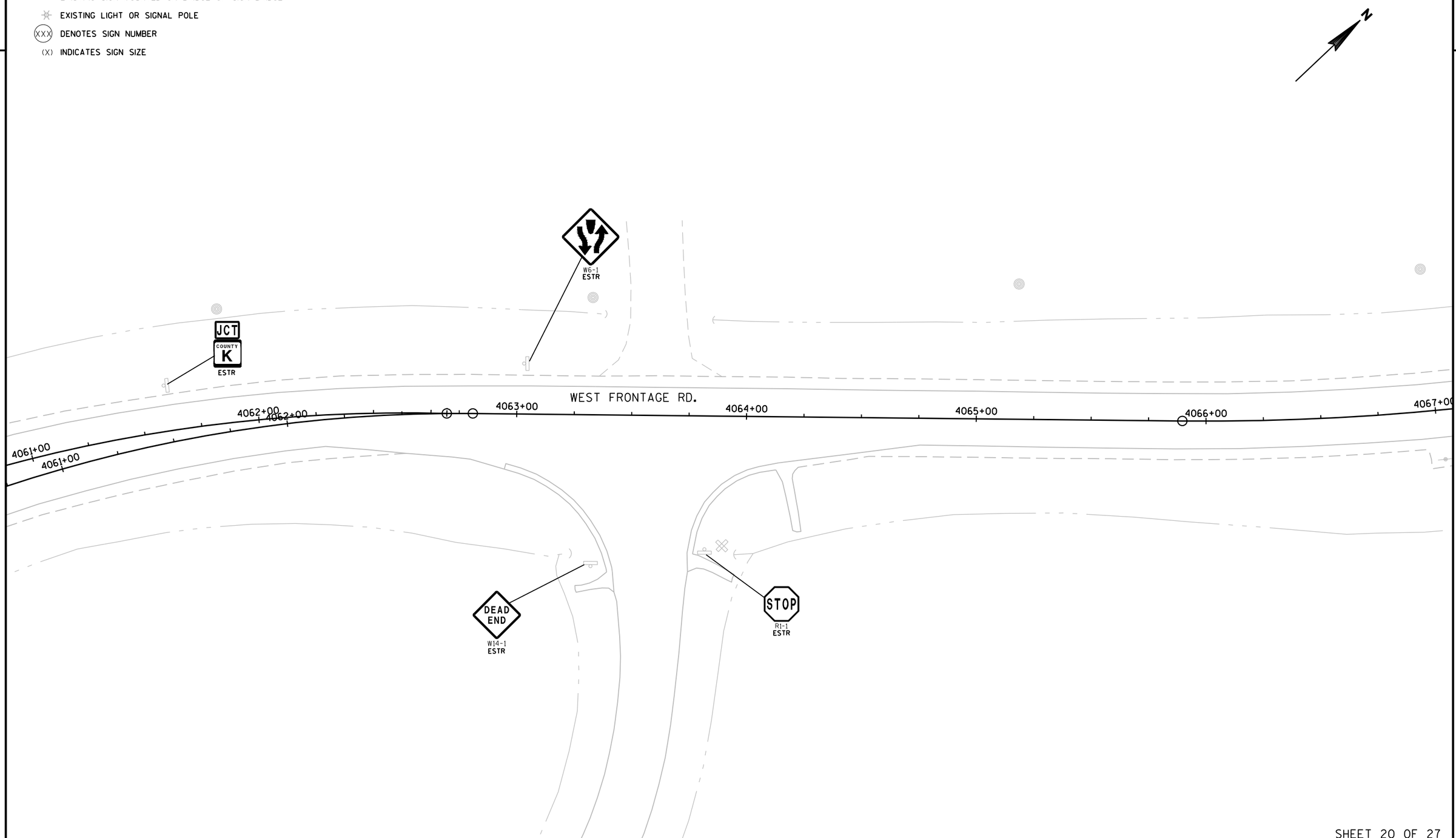
EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE



2

SHEET 20 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 113	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023101_PS.DWG
LAYOUT NAME - 023120_PS

PLOT DATE : 11/23/2016 8:53 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

RIPRAP

4067+00

4068+00

4069+00

4070+00

4071+00

4072+00

4073+00

WEST FRONTAGE RD.

W1-6
ESTR

SIGN

SHEET 21 OF 27

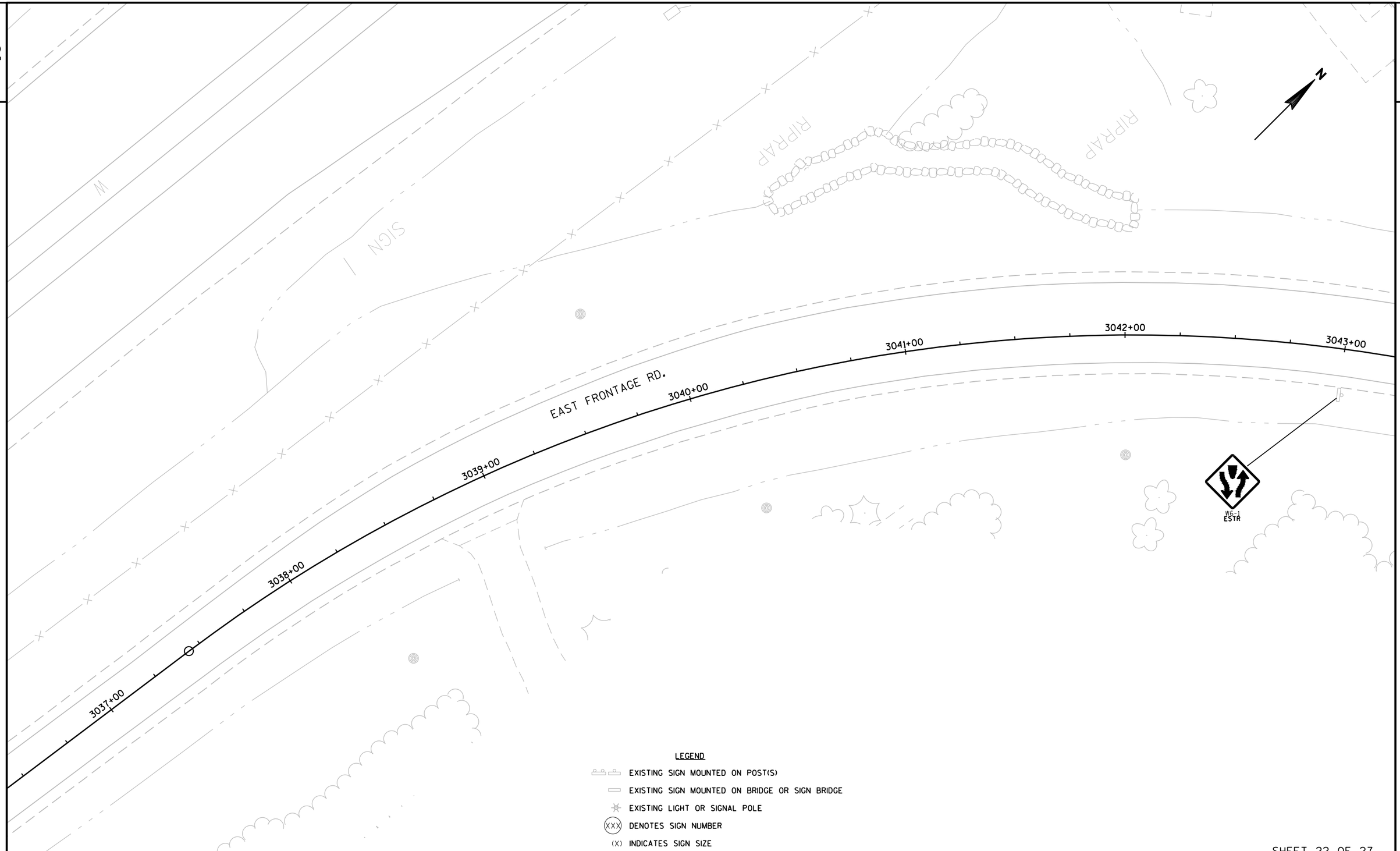
PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 114	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023101_PS.DWG
LAYOUT NAME - 023121_PS

PLOT DATE : 11/23/2016 8:53 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 22 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 115 E

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

WALLS

SIGN

MICHEL CT.

STOP
R1-1
ESTR

DEAD END
W14-1
ESTR

DO NOT ENTER
R5-1
ESTR

W6-3
ESTR

WRONG WAY
R5-1A
ESTR

W6-2
ESTR

EAST FRONTAGE RD.

3043+00 3044+00 3045+00 3046+00 3047+00 3048+00 3049+00

JCT
COUNTY K
ESTR
J1-1

W1-7
ESTR

R4-7

W5-54S
ESTR

W1-4L
ESTR

SHEET 23 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 116	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023101_PS.DWG
LAYOUT NAME - 023123_PS

PLOT DATE : 11/23/2016 8:53 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

SEE SHEET 9

SEE SHEET 9

EAST FRONTAGE RD.

3049+00

3050+00

3051+00

3052+00

3053+00

3054+00

3055+00

65R REMOVE

66R REMOVE

SPEED LIMIT 35 R2-1 ESTR

67R WRONG WAY REMOVE

70R REMOVE R4-7

68R ONLY REMOVE

DO NOT ENTER REMOVE PART OF 68R

69R TO I 41 TO I 94 WEST COUNTY K EAST COUNTY K REMOVE J23-4

SHEET 24 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 117	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023101_PS.DWG
LAYOUT NAME - 023124_PS

PLOT DATE : 11/23/2016 8:53 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

EAST FRONTAGE RD.

5054+00 5055+00 5056+00 5057+00 5058+00 5059+00

SEE SHEET 9

EAST COUNTY K TO WEST COUNTY K TO INTERSTATE 41 TO INTERSTATE 94

J23-4
MOVE
SEE PERMANENT SIGNING PLAN

72R REMOVE R5-1 (DO NOT ENTER)

73R REMOVE R3-7R (RIGHT LANE MUST TURN RIGHT)

R5-1 ESTR (DO NOT ENTER)

R4-7 ESTR

75R REMOVE R4-7 (TRUCK ENTRANCE AHEAD)
MOVE
SEE PERMANENT SIGNING PLAN SHEET 9 OF 27

R5-1 ESTR (DO NOT ENTER)

R4-7 ESTR

R5-1 ESTR (DO NOT ENTER)

R4-7 ESTR

SEE SHEET 9

R5-1 (DO NOT ENTER)
ONE WAY
76R REMOVE

RIGHT TURN ONLY
R3-53-R ESTR

W4-2R ESTR

SPONSOR SPONSOR1 SPONSOR2 SPONSOR3
I55-56 ESTR

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 25 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 118	E

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

BERM

INL

INL

INL

RIGHT LANE MUST TURN RIGHT
R3-7-R
ESTR

77R
REMOVE
W3-1

LEFT TURN LANE
R3-56L
ESTR

5060+00

5061+00

5062+00

5063+00

5064+00

5065+00

5066+00

EAST FRONTAGE RD.

JCT
COUNTY K
ESTR
J1-1

R4-7

W5-54S
ESTR

LEFT TURN LANE
R3-55L
ESTR

W6-2
ESTR

WRONG WAY
R5-1A
ESTR

W6-3
ESTR

DO NOT ENTER
R5-1
ESTR

W1-6
ESTR

SHEET 26 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	SIGNING REMOVAL PLAN	SHEET 119	E

2

LEGEND

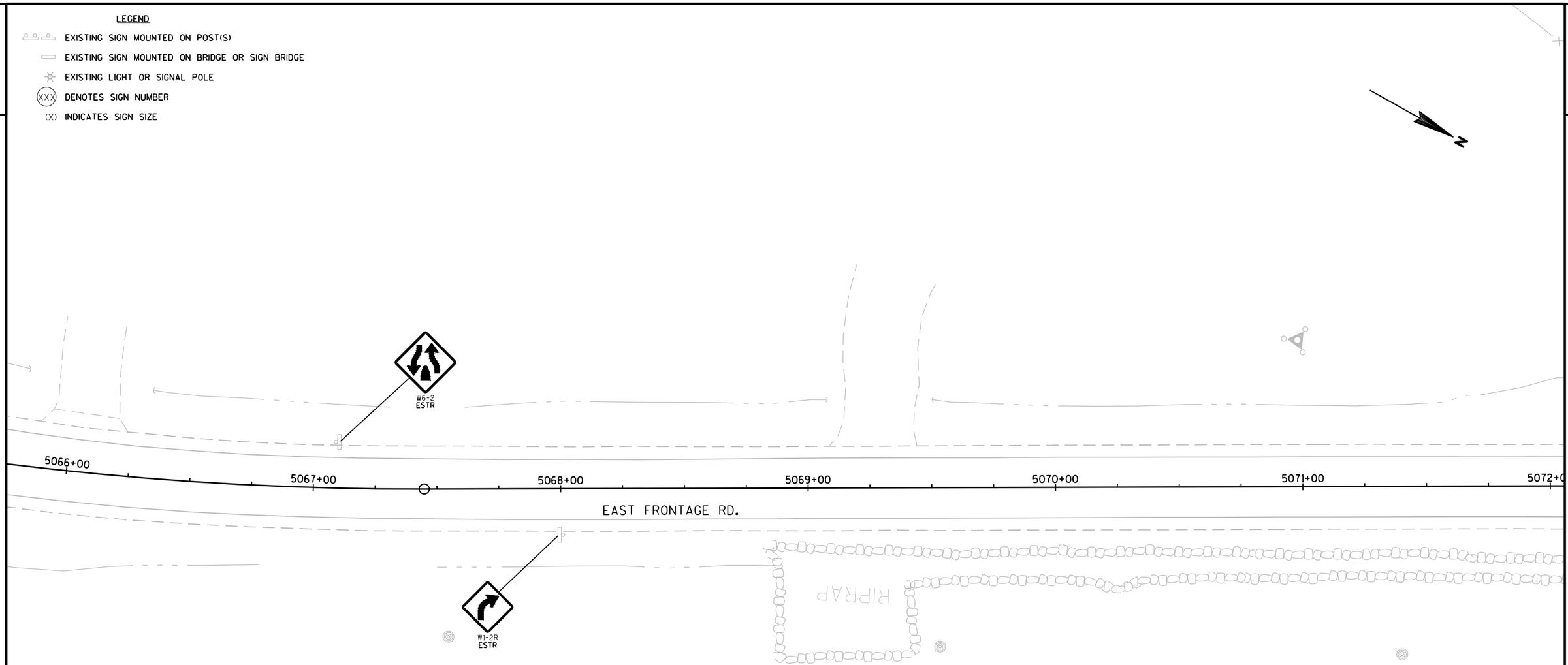
EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

EXISTING LIGHT OR SIGNAL POLE

(XXX) DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE



2

SHEET 27 OF 27

PROJECT NO:1030-11-71	HWY:IH-41/94 @ CTH K	COUNTY:RACINE	SIGNING REMOVAL PLAN	SHEET 120	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023101_PS.DWG
LAYOUT NAME - 023127_PS

PLOT DATE : 11/23/2016 8:54 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

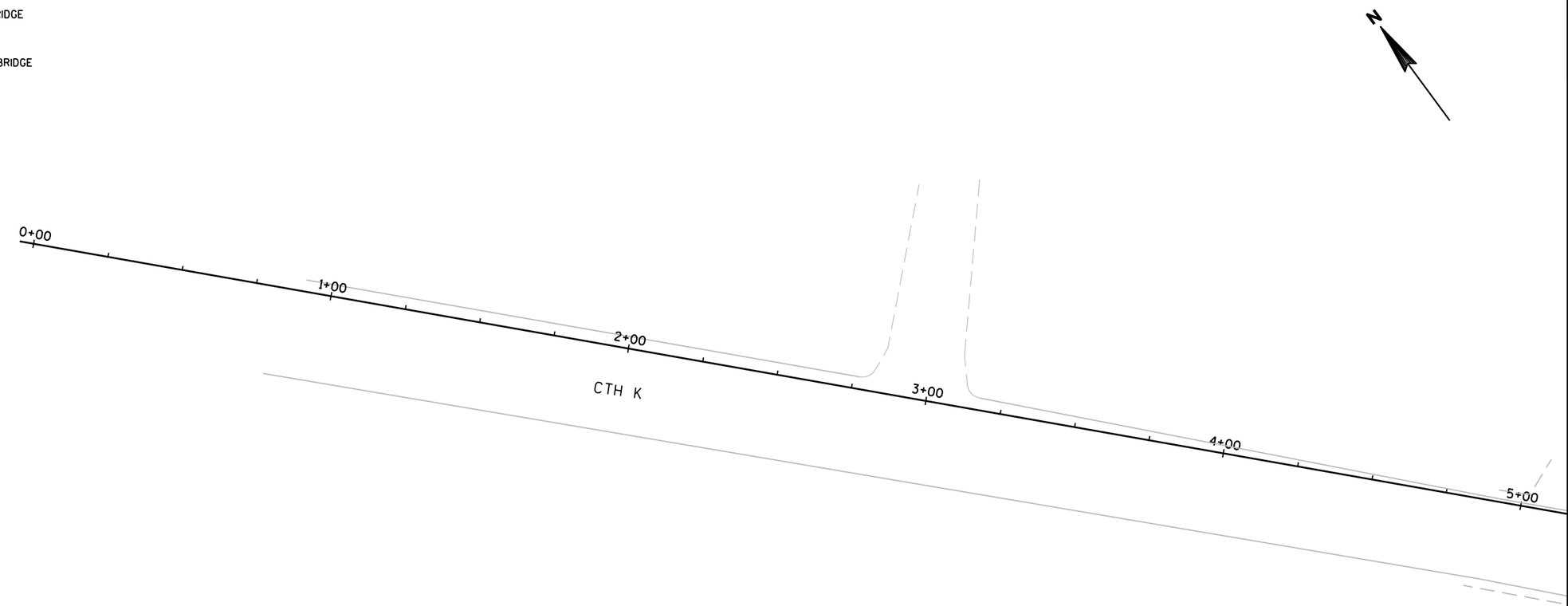
(XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM

PROPOSED LIGHT POLE

EXISTING LIGHT OR SIGNAL POLE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE



NO SIGNS ON THIS SHEET

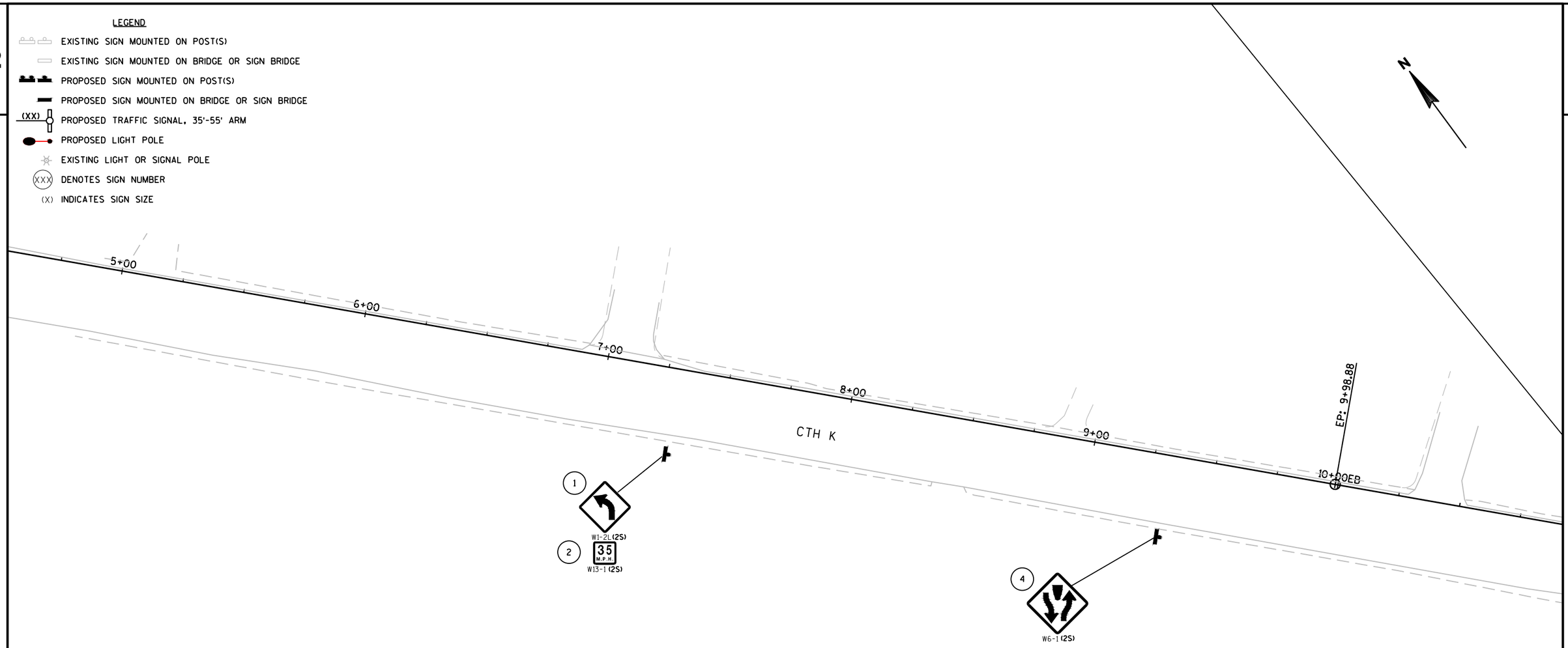
SHEET 1 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 121	E

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- (XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM
- PROPOSED LIGHT POLE
- EXISTING LIGHT OR SIGNAL POLE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE



2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

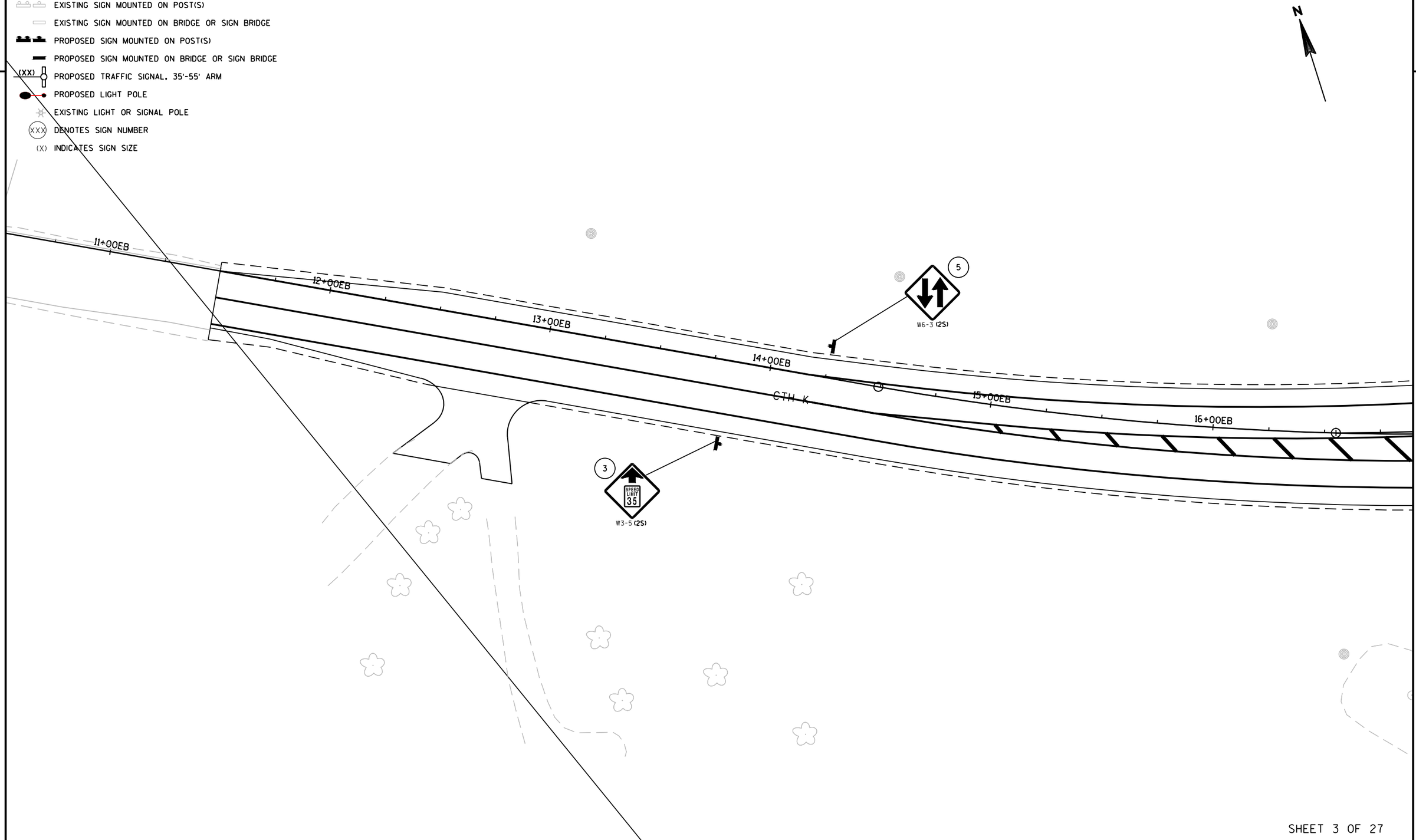
(XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM

PROPOSED LIGHT POLE

EXISTING LIGHT OR SIGNAL POLE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE



2

SHEET 3 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 123	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023201_PS.DWG
LAYOUT NAME - 023203_PS

PLOT DATE : 4/4/2017 9:25 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- (XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM
- PROPOSED LIGHT POLE
- EXISTING LIGHT OR SIGNAL POLE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

17+00WB
17+00EB
18+00WB
18+00EB
19+00WB
19+00EB
20+00WB
20+00EB
21+00WB
21+00EB
22+00WB
22+00EB
CTH K

6 SPEED LIMIT 55 R2-1 (2S)

10 DO NOT ENTER R5-1 (3)

7 SPEED LIMIT 35 R2-1 (3)

8 R4-7(3)

9 W5-54S(2S) SEE DETAIL

SEPV SEPTIC SEPV

SHEET 4 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 124	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023201_PS.DWG
LAYOUT NAME - 023204_PS

PLOT DATE : 4/4/2017 9:25 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- (XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM
- PROPOSED LIGHT POLE
- EXISTING LIGHT OR SIGNAL POLE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

2

19 WRONG WAY R5-1A (2S)

18 W6-2 (2S)

17 W4-2R (2S)

23+00WB 24+00WB 25+00WB 26+00WB 27+00WB 28+00WB

23+00EB 24+00EB 25+00EB 26+00EB 27+00EB 28+00EB

CTH K

15 BEGIN LEFT TURN LANE R3-20-L (2S)

11 12 W2-1 (2S) MOVE SOLAR BEACON FLASHING ASSEMBLIES

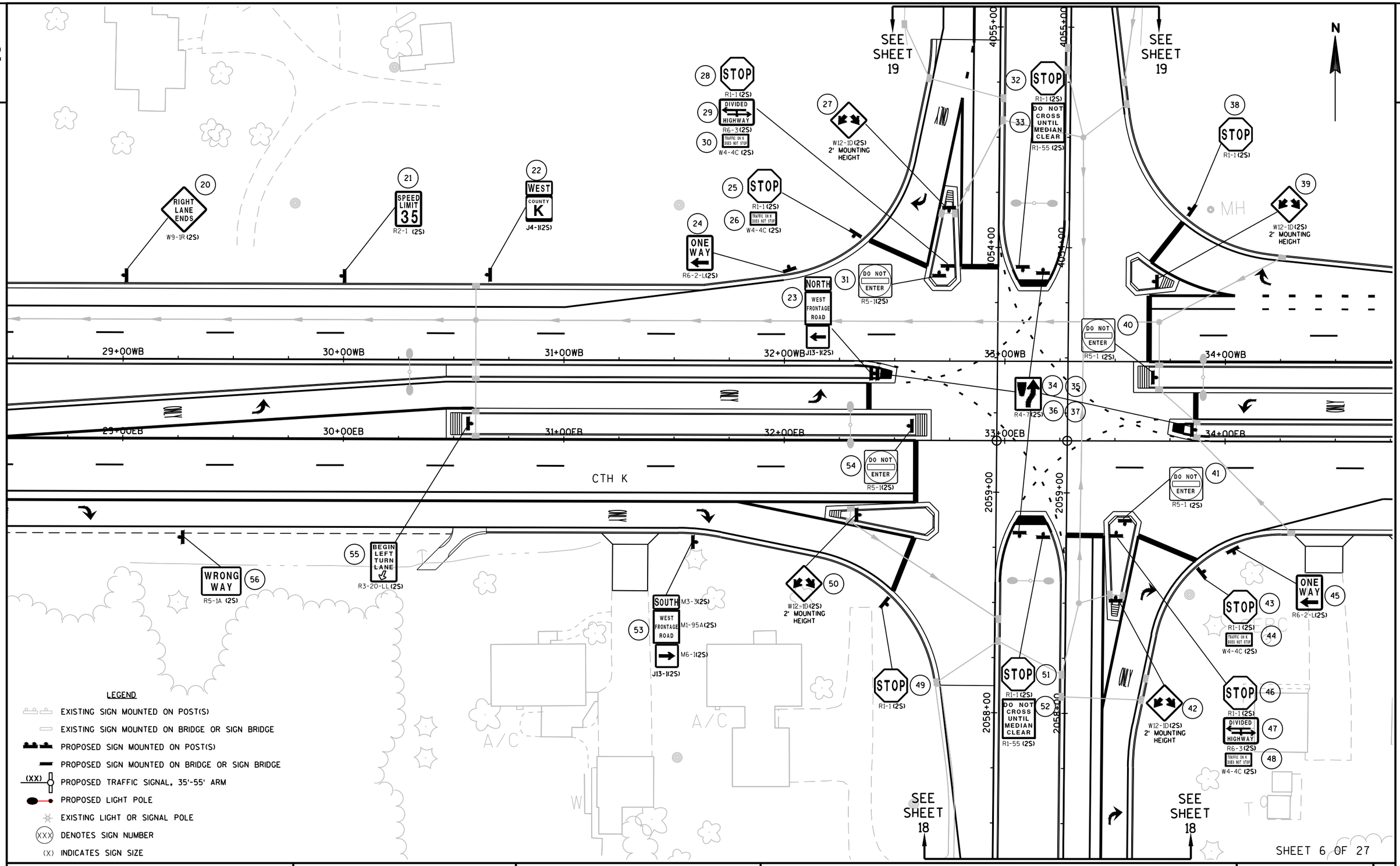
13 West Frontage Rd NORTH SOUTH D1-60

14 JCT 41 94 J1-2(2S)

16 West Frontage Rd NORTH SOUTH D1-60

SHEET 5 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 125 E



SHEET 6 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023201_PS.DWG
LAYOUT NAME - 023206_PS

PLOT DATE : 4/4/2017 9:25 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : **********

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- (XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM
- PROPOSED LIGHT POLE
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

57 — ALTERNATE SOUTH / ALTERNATE EAST / ALTERNATE NORTH / ALTERNATE WEST — 41 / 94 / 41 / 94 — J3-4(2S)

58 — WRONG WAY — R5-1A (2S)

59 — BEGIN LEFT TURN LANE — R3-20-LL (2S)

60 — ALTERNATE SOUTH / ALTERNATE EAST / ALTERNATE NORTH / ALTERNATE WEST — 41 / 94 / 41 / 94 — J3-4(2S) MOVE

61 — BEGIN LEFT TURN LANE — R3-20-L (2S)

62 — West Frontage Rd — SOUTH NORTH — DI-60

64 — WEST COUNTY K — J4-1 MOVE

63 — SPEED LIMIT 35 — R2-1 MOVE

67 — WELCOME CRIME WATCH — MOVE

65 — R4-7(2S)

66 — DO NOT ENTER — R5-1 (2S)

68 — Milwaukee / Chicago — DI-2 MOVE

69 — WRONG WAY — R5-1A (2S)

70 — SOUTH EAST — 41 / 94 — ONLY — TYPE I COVER UNTIL AFTER TIA PROJECT BUILT

71 — SOUTH EAST — 41 / 94 — J2-2(2S) ON UPRIGHT

72 — RAMP CLOSED USE ALT ROUTE — R11-54-F(2S)

73 74 — W3-1(2S)

CTH K

35+00WB 36+00WB 37+00WB 38+00WB 39+00WB 40+00WB 41+

35+00EB 36+00EB 37+00EB 38+00EB 39+00EB 40+00EB 41+

S-51-216

SEPC FLAG SIGN ANT W

SHEET 7 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 127	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023201_PS.DWG
LAYOUT NAME - 023207_PS

PLOT DATE : 4/4/2017 9:25 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : **********

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- (XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM
- PROPOSED LIGHT POLE
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

IH 94/ USH 41

CTH K

41+00WB 42+00WB 43+00WB 44+00WB 45+00WB 46+00WB 47+00WB

41+00EB 42+00EB 44+00EB 45+00EB 46+00EB 47+00EB

76 COVERED SIGN MOVE

77 STOP R1-1 MOVE

STOP R1-1 ESTR

DO NOT ENTER R5-1 ESTR

R3-1

STOP R1-1 ALL WAY R1-3-P ESTR

75 DO NOT ENTER R5-1 MOVE

ONE WAY R6-2-R ESTR

78 ONE WAY R6-2-L MOVE

SOUTH EAST INTERSTATE 41 94 ESTR J3-2

Chicago ESTR

FREEWAY ENTRANCE RAMP ONLY ESTR

SOUTH EAST INTERSTATE 41 94 ESTR J3-2

STOP R1-1 ALL WAY R1-3-P R3-2 ESTR

R1-1 STOP R1-3-P ALL WAY R3-2 ESTR

R1-1 STOP ESTR

FREEWAY ENTRANCE RAMP ONLY ESTR

80 NORTH WEST INTERSTATE 41 94 MOVE J3-2

79 NORTH WEST INTERSTATE 41 94 MOVE J3-2

81 Milwaukee

82 NO PARKING ANY TIME R7-1-R MOVE

87 NO PARKING ANY TIME R7-1-L MOVE

R1-1 STOP R1-3-P ALL WAY ESTR

R3-1 ESTR

90 ONE WAY R6-2-L MOVE

ONE WAY R6-2-R ESTR

STOP R1-1 ESTR

88 STOP R1-1 MOVE

DO NOT ENTER R5-1 WRONG WAY R5-1A ESTR

89 DO NOT ENTER R5-1 MOVE

86 EAST COUNTY K J4-1± MOVE

85 SPEED LIMIT 35 R2-1 MOVE

84 W3-3(2S)

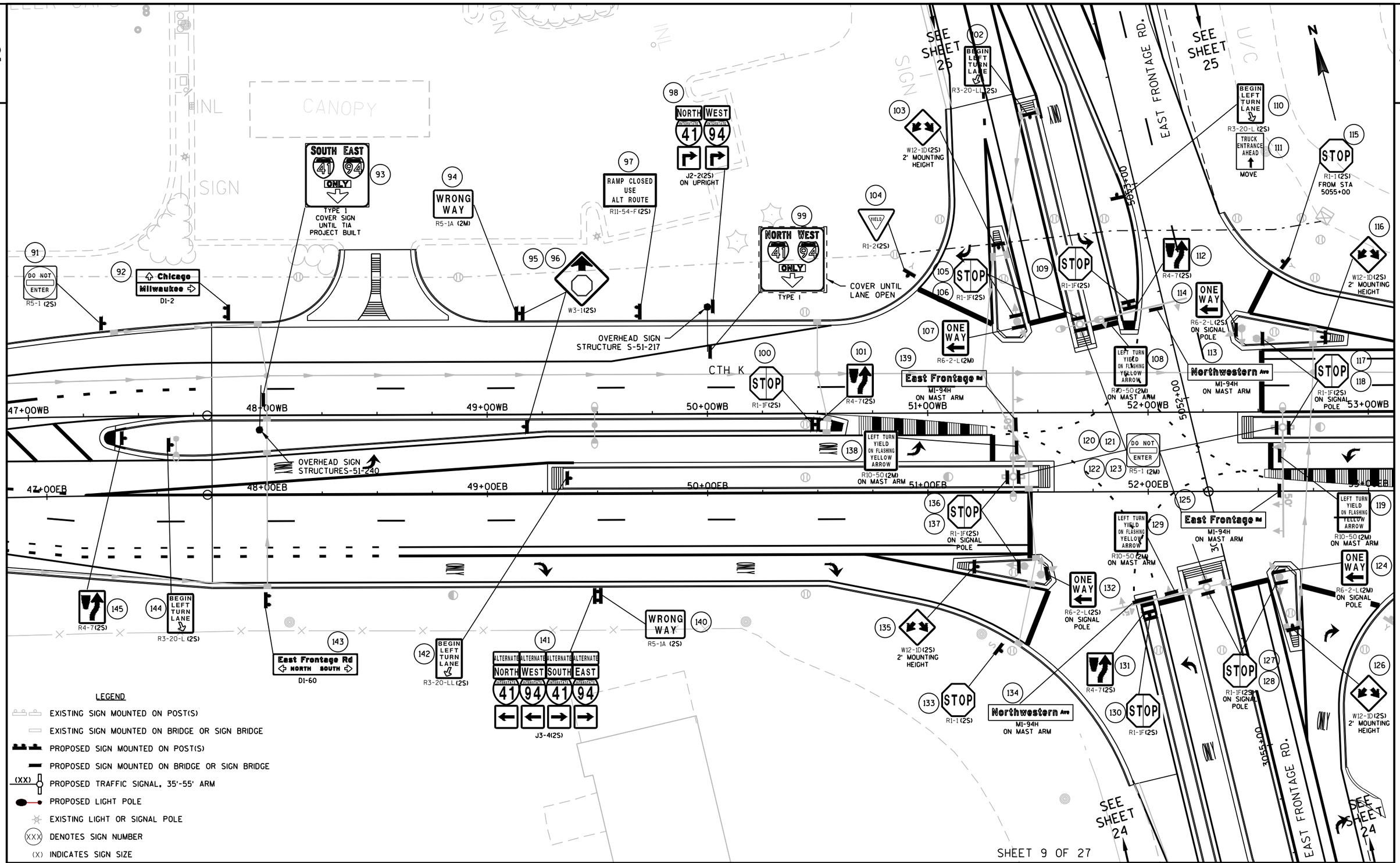
83 CALEDONIA ALTERNATE SSC PARKING MOVE DO NOT REPLACE

SIGN

SHEET 8 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 128	E

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- (XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM
- PROPOSED LIGHT POLE
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 9 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 129 E

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- (XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM
- PROPOSED LIGHT POLE
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

2

2

N

CTH K

53+00WB 54+00WB 55+00WB 56+00WB 57+00WB 58+00WB 59+00WB

53+00EB 54+00EB 55+00EB 56+00EB 57+00EB 58+00EB 59+00EB

146 BEGIN LEFT TURN LANE — R3-20-LL (2S)

147 JCT 41 JCT 94 — J1-2(2S)

148 WRONG WAY — R5-1A (2S)

149 NORTH EAST FRONTAGE ROAD — J13-1(2S)

150 East Frontage Rd SOUTH NORTH — D1-60

151 BEGIN LEFT TURN LANE — R3-20-L (2S)

152 STOP — R1-1 (2S)

153 — R4-7 (2S)

154 RIGHT LANE ENDS — W9-1R (2S)

155

156 NO PARKING ANY TIME — R7-1-R (2S)

157 SOUTH EAST FRONTAGE ROAD — J13-2(2S)

158 SPEED LIMIT 35 — R2-1 (2S)

159 EAST COUNTY K — J4-1(2S)

160 STOP — R1-1F (2S)

161 — R4-7 (2S)

162 YIELD — R1-2 (2S)

A/C SEPC

A/C SEPC

SHEET 10 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 130	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023201_PS.DWG
LAYOUT NAME - 023210_PS

PLOT DATE : 4/4/2017 9:26 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : **********

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- (XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM
- PROPOSED LIGHT POLE
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

CAROL RD.

CTH K

59+00WB 60+00WB 61+00WB 62+00WB 63+00WB 64+00WB 65+00WB

59+00EB 60+00EB 61+00EB 62+00EB 63+00EB 64+00EB 65+00EB

163 R5-2 MOVE

164 165 W3-3(2S)

166 R4-7(2S)

167 Hwy 38 5 Racine 10 D2-2

168 169 W4-2R (2S)

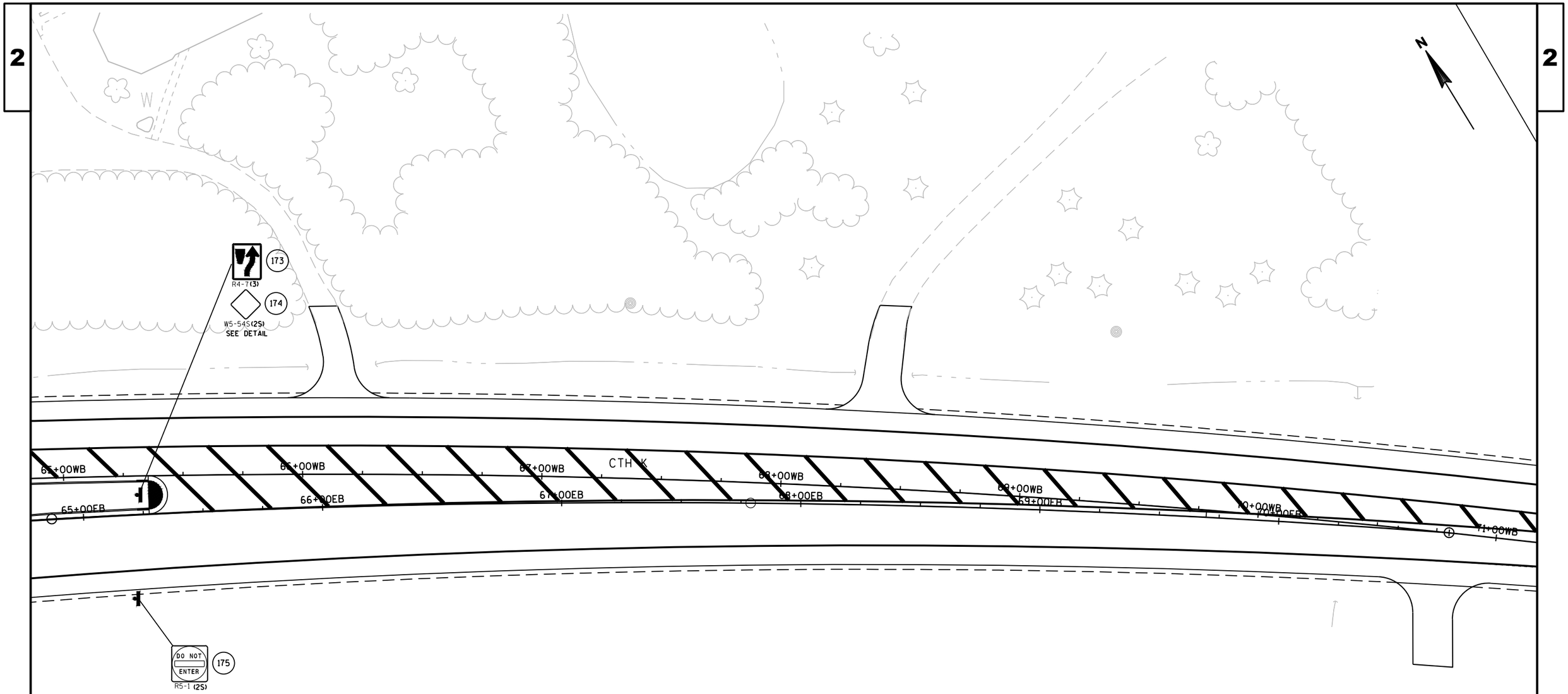
170 I55-56 MOVE DO NOT REPLACE

171 W6-1(2S)

172 WRONG WAY R5-1A (2S)

SHEET 11 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 131	E



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- (XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM
- PROPOSED LIGHT POLE
- EXISTING LIGHT OR SIGNAL POLE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 12 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 132 E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023201_PS.DWG
LAYOUT NAME - 023212_PS

PLOT DATE : 4/4/2017 9:26 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : **********

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

(XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM

PROPOSED LIGHT POLE

EXISTING LIGHT OR SIGNAL POLE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

177 SPEED LIMIT 35 R2-1 (3)

CTH K

71+00WB 72+00WB 73+00WB 74+00WB 75+00WB 76+00WB 77+00WB

176 W6-3 (2S)

178 SPEED LIMIT 55 R2-1 (2S)

SHEET 13 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 © CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 133	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023201_PS.DWG
LAYOUT NAME - 023213_PS

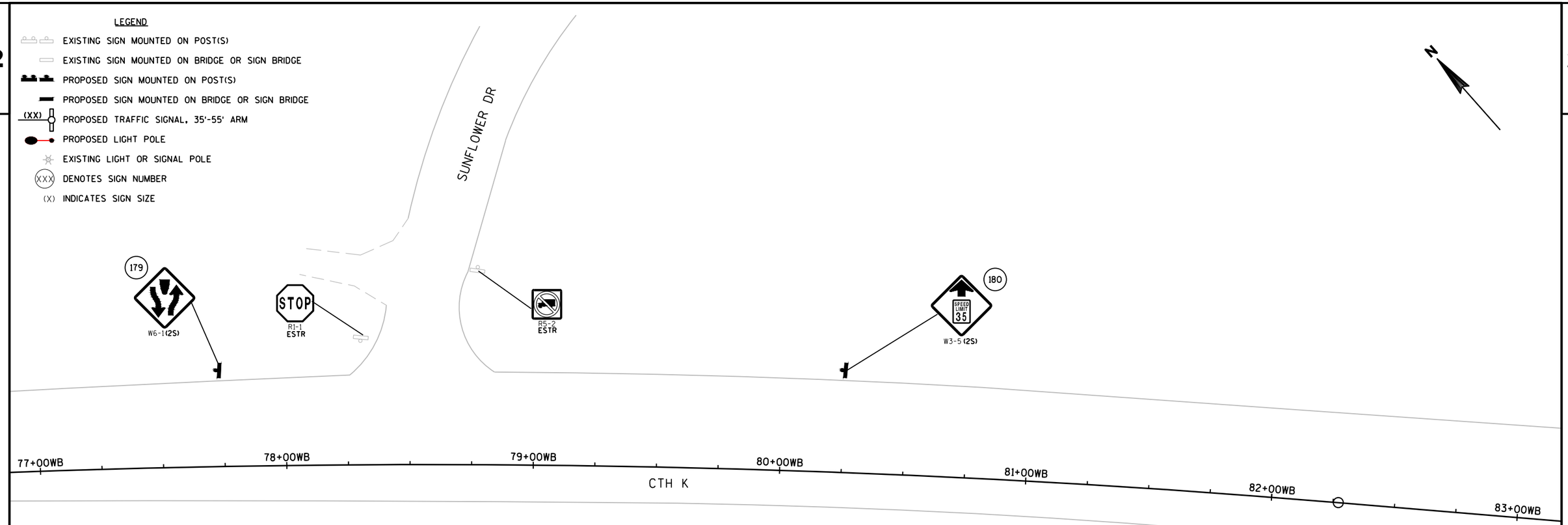
PLOT DATE : 4/4/2017 9:27 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- (XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM
- PROPOSED LIGHT POLE
- EXISTING LIGHT OR SIGNAL POLE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE



2

SHEET 14 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 134	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023201_PS.DWG
LAYOUT NAME - 023214_PS

PLOT DATE : 4/4/2017 9:27 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : **********

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

(XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM

PROPOSED LIGHT POLE

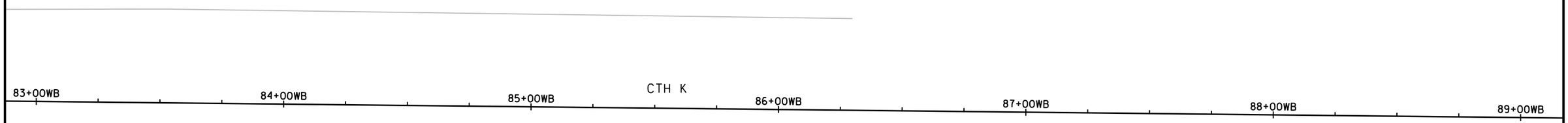
EXISTING LIGHT OR SIGNAL POLE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

NO SIGNS ON THIS SHEET



2

SHEET 15 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 135	E

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

(XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM

PROPOSED LIGHT POLE

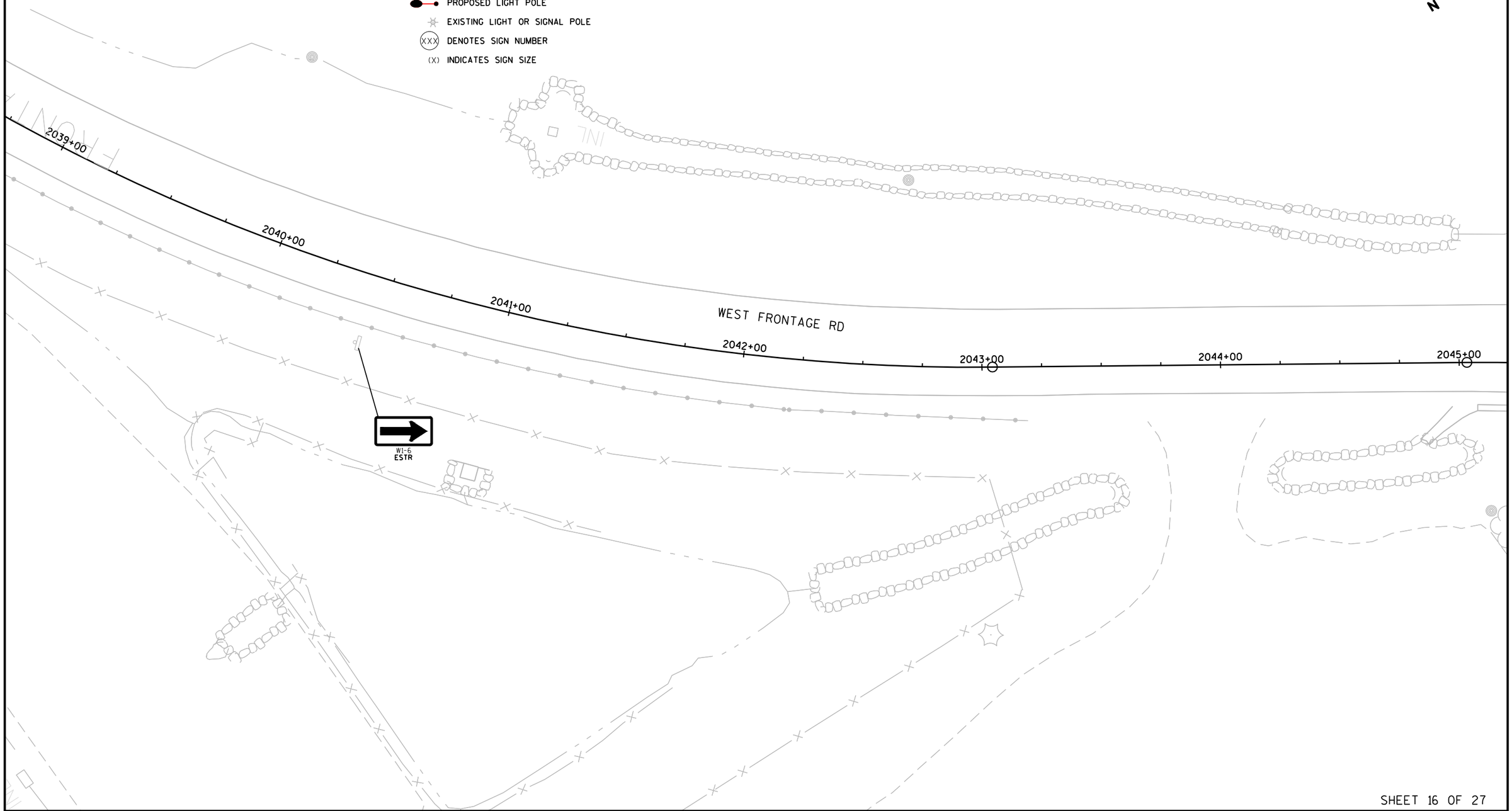
EXISTING LIGHT OR SIGNAL POLE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

NOTE:
FRONTAGE ROADS CONSTRUCTED IN 2013. THERE FORE NOT REPLACING SIGNS ON FRONTAGE ROAD.

N



SHEET 16 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 136	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023201_PS.DWG
LAYOUT NAME - 023216_PS

PLOT DATE : 4/4/2017 9:27 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- (XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM
- PROPOSED LIGHT POLE
- EXISTING LIGHT OR SIGNAL POLE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

WRONG WAY
R5-1A
ESTR

W6-2
ESTR

DO NOT ENTER
R5-1
ESTR

R4-7
ESTR

WEST FRONTAGE RD

2045+00
2046+00
2047+00
2048+00
2049+00
2050+00
2051+00

HW

R4-7
W5-54S
ESTR

JCT
COUNTY
K
ESTR
JI-1

DO NOT ENTER
R5-1
ESTR

SHEET 17 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 137	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023201_PS.DWG
LAYOUT NAME - 023217_PS

PLOT DATE : 4/4/2017 9:27 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : **********

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

(XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM

PROPOSED LIGHT POLE

EXISTING LIGHT OR SIGNAL POLE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N

DO NOT ENTER
R5-1
ESTR

W1-4L
ESTR

SPEED LIMIT 35
R2-1
ESTR

SEE SHEET 6

2052+00 2053+00 2054+00 2055+00 2056+00 2057+00

W. FRONTAGE RD.

2052+00 2053+00 2054+00 2055+00 2056+00 2057+00

R4-7
ESTR

W3-1
ESTR

WEST COUNTY K TO EAST COUNTY K TO 41 94
ESTR

WRONG WAY
R5-1A
ESTR

SEE SHEET 6

SHEET 18 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 138 E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023201_PS.DWG
LAYOUT NAME - 023218_PS

PLOT DATE : 4/4/2017 9:27 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : **********

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- (XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM
- PROPOSED LIGHT POLE
- EXISTING LIGHT OR SIGNAL POLE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

182
WRONG WAY
R5-1A (2S)

TO INTERSTATE 41 / TO INTERSTATE 94 / EAST COUNTY K / WEST COUNTY K
ESTR

SEE SHEET 6

5+00 4056+00 4057+00 4058+00 4059+00 4060+00 4061+00

WEST FRONTAGE RD.

W3-1
ESTR

W1-6
ESTR

SEE SHEET 6

(AUXPT 1 (DIR)(SEW))
SPONSOR
SPONSOR1
SPONSOR2
SPONSOR3
181
I55-56
MOVE
DO NOT REPLACE

SPEED LIMIT 35
R2-1
ESTR

W6-2
ESTR

WRONG WAY
R5-1A
ESTR

W6-3
ESTR

DO NOT ENTER
R5-1
ESTR

R4-7

W5-54S
ESTR

SHEET 19 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACIRE	PERMANENT SIGNING	SHEET 139 E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023201_PS.DWG
LAYOUT NAME - 023219_PS

PLOT DATE : 4/4/2017 9:27 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

(XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM

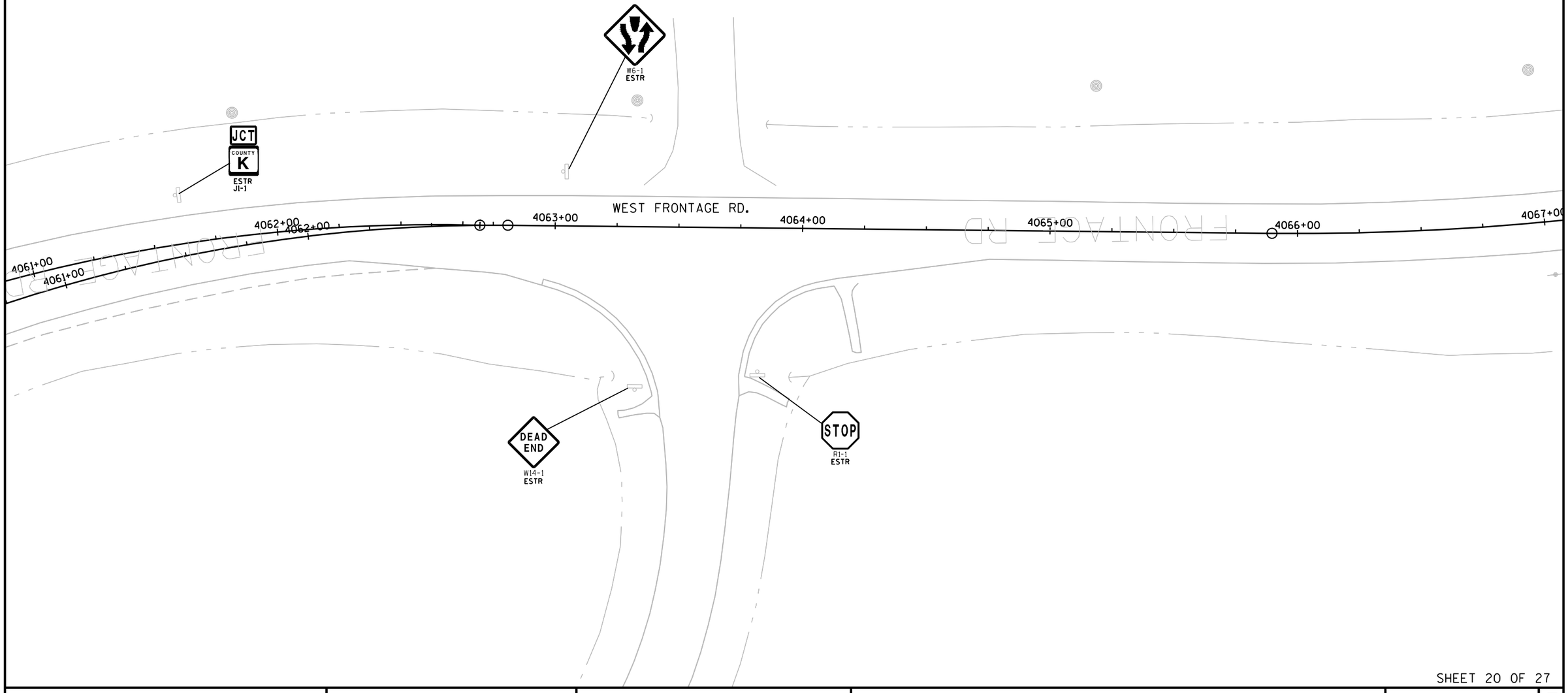
PROPOSED LIGHT POLE

EXISTING LIGHT OR SIGNAL POLE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE

N



SHEET 20 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 140	E

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

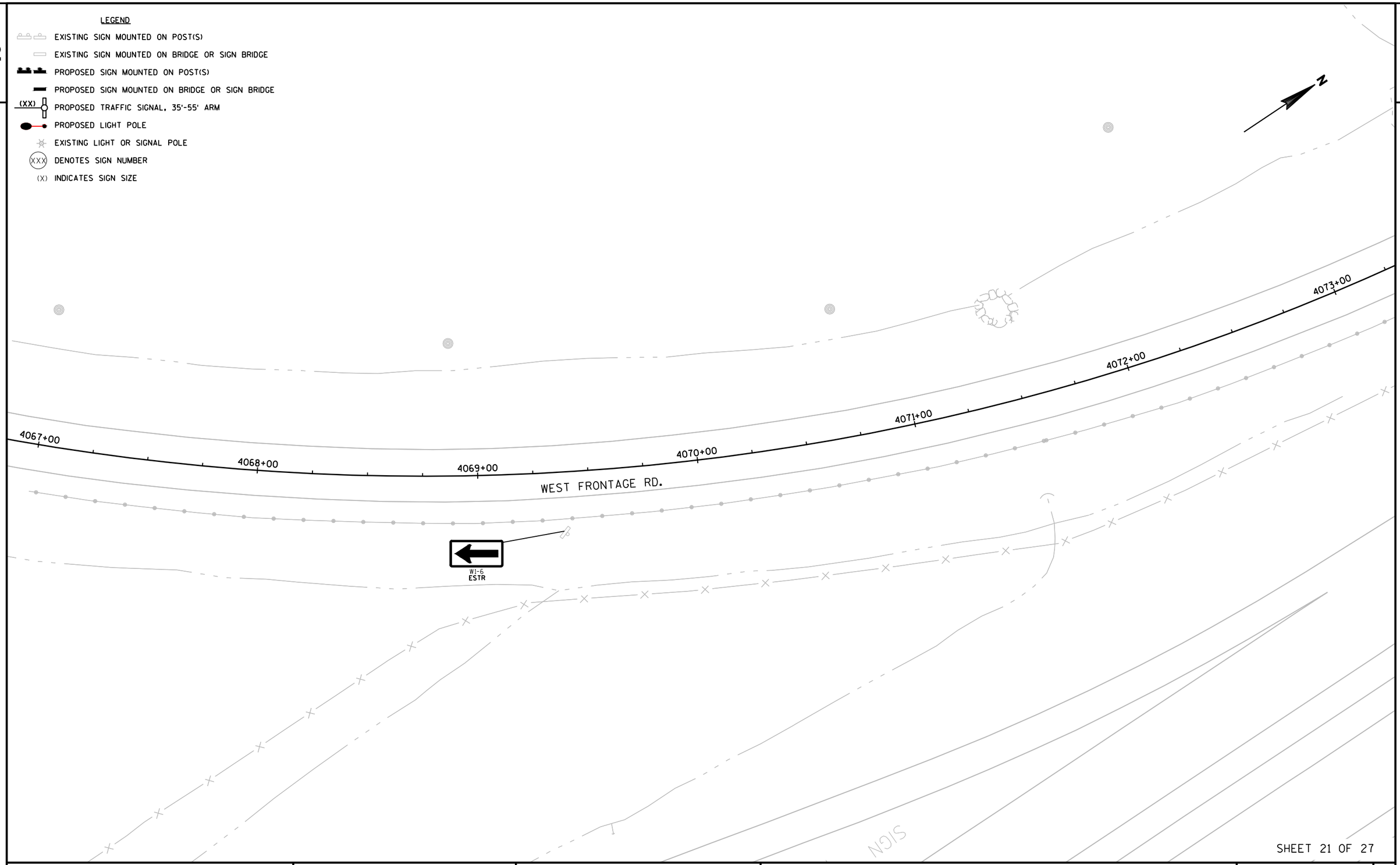
(XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM

PROPOSED LIGHT POLE

EXISTING LIGHT OR SIGNAL POLE

XXX DENOTES SIGN NUMBER

(X) INDICATES SIGN SIZE



SHEET 21 OF 27

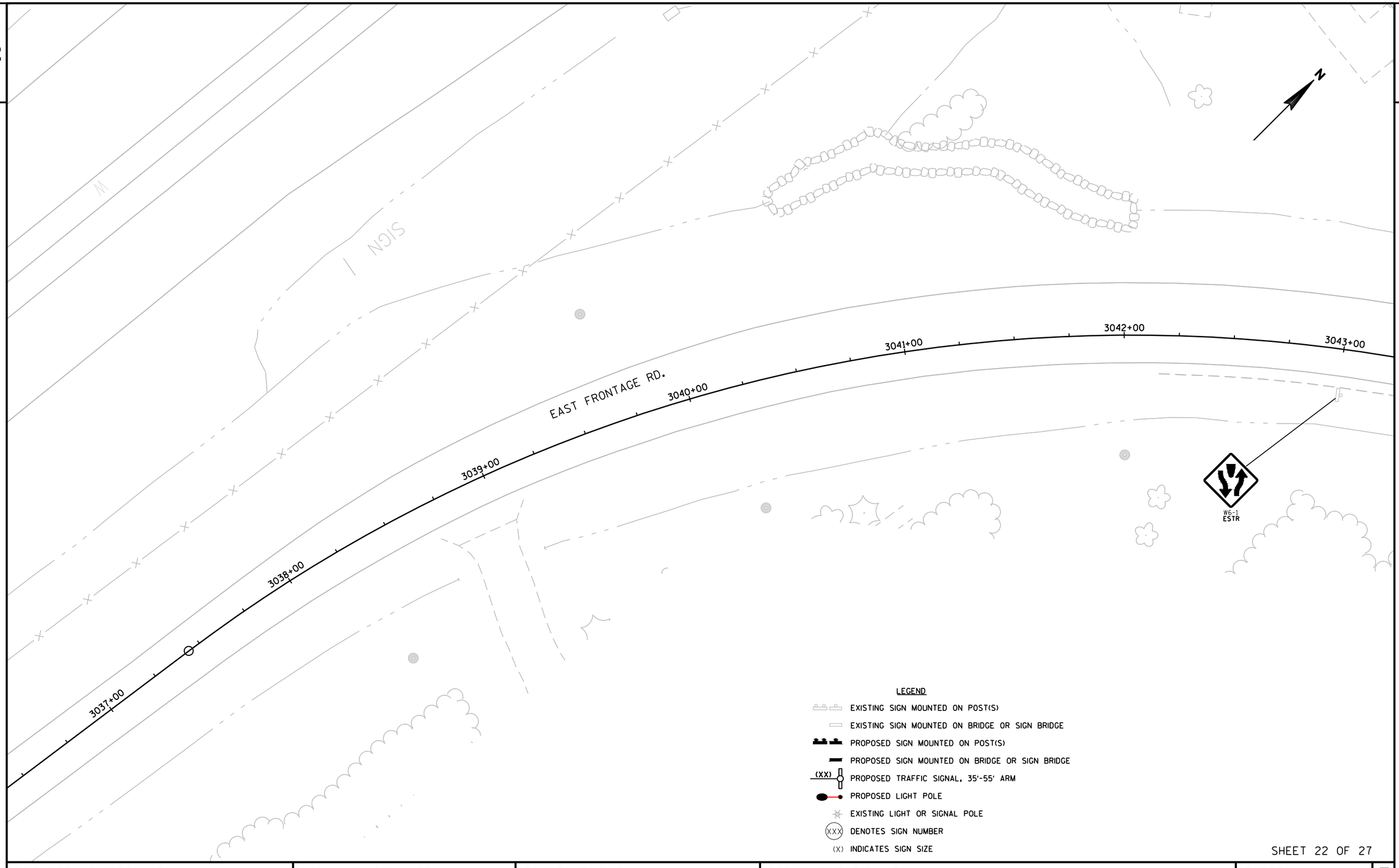
PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 141 E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023201_PS.DWG
LAYOUT NAME - 023221_PS

PLOT DATE : 4/4/2017 9:28 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

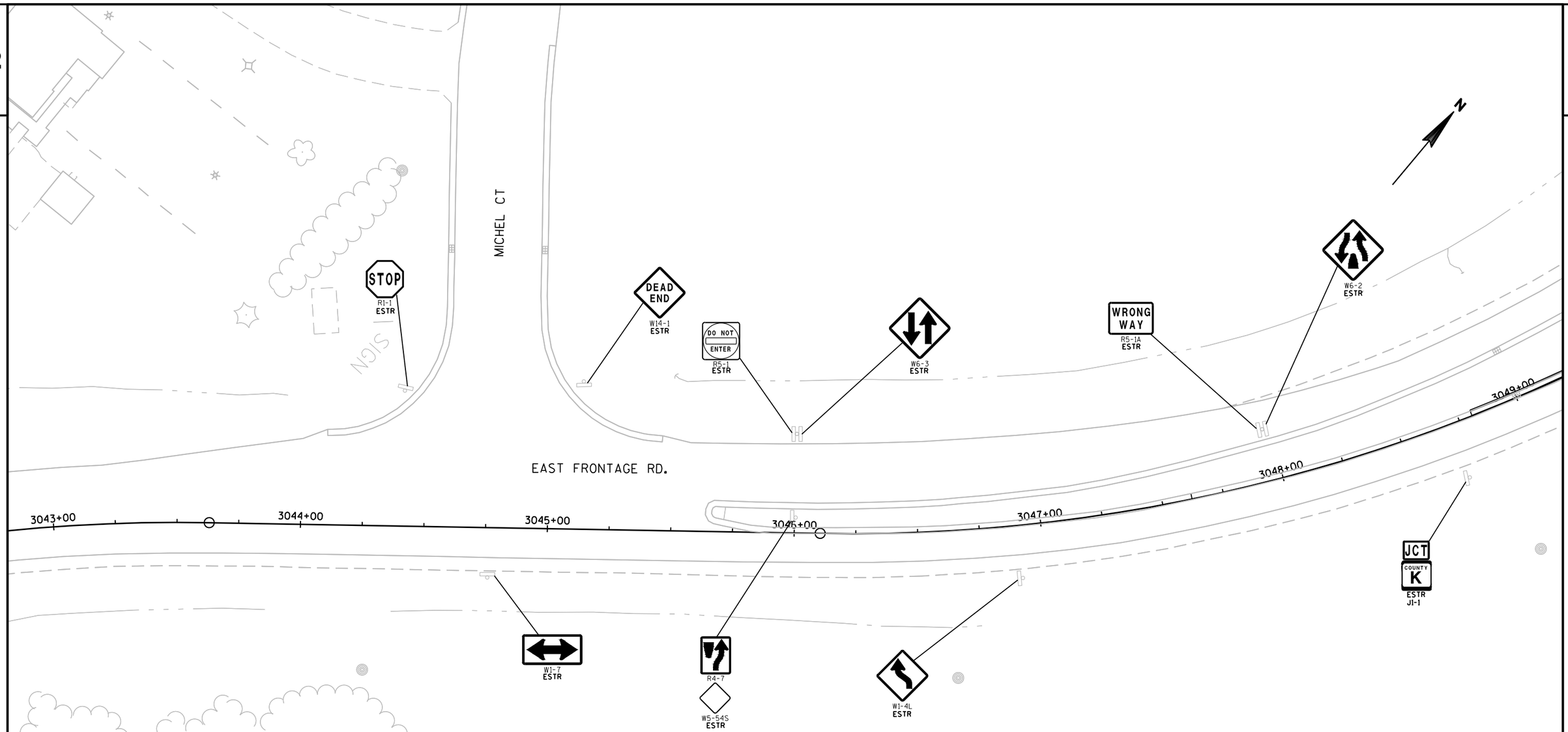
2



SHEET 22 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 142	E

2



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- (XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM
- PROPOSED LIGHT POLE
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 23 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 143	E

2

N

MH

SPEED LIMIT 35
R2-1
ESTR

SEE SHEET 9

3049+00

3050+00

3051+00

3052+00

3053+00

3054+00

3055+00

EAST FRONTAGE RD.

183
W3-3(2S)

184
BEGIN LEFT TURN LANE
R3-20-L (2S)

185
TO ARTERIAL 41 | TO ARTERIAL 94 | WEST COUNTY K | EAST COUNTY K
J3-4(2S)

WRONG WAY
186
R5-1A (2S)

187
BEGIN LEFT TURN LANE
R3-20-LL (2S)

SEE SHEET 9

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- (XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM
- PROPOSED LIGHT POLE
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

SHEET 24 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 144	E

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- (XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM
- PROPOSED LIGHT POLE
- EXISTING LIGHT OR SIGNAL POLE
- (XXX) DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

188 EAST COUNTY K | WEST COUNTY K | TO INTERSTATE 41 | TO INTERSTATE 94
MOVE J23-4

189 R4-7 (2S)

DO NOT ENTER R5-1 ESTR

SEE SHEET 9

LANE

5054+00 5055+00 5056+00 5057+00 5058+00 5059+00

EAST FRONTAGE RD.

R4-7 ESTR

DO NOT ENTER R5-1 ESTR

190 BEGIN LEFT TURN LANE R3-20-LL (2S)

191 DO NOT ENTER R5-1 (2S)

192 DO NOT ENTER R5-1 (2S)

193 ONE WAY R6-2-R (2S)

RIGHT TURN ONLY R3-53-R ESTR

W4-2R ESTR

SPONSOR SPONSOR1 SPONSOR2 SPONSOR3 I55-56 ESTR

W4-2R ESTR

SHEET 25 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 145	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023201_PS.DWG
LAYOUT NAME - 023225_PS

PLOT DATE : 4/4/2017 9:28 AM PLOT BY : VANDE LEEST, CYNTHIA PLOT NAME : PLOT SCALE : **********

2

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE
- (XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM
- PROPOSED LIGHT POLE
- EXISTING LIGHT OR SIGNAL POLE
- XXX DENOTES SIGN NUMBER
- (X) INDICATES SIGN SIZE

N

RIGHT LANE MUST TURN RIGHT
R3-7-R
ESTR

194
W3-3(2S)

LEFT TURN LANE
R3-5GL
ESTR

JCT
COUNTY K
ESTR
J1-1

R4-7

W5-54S
ESTR

5060+00

5061+00

EAST FRONTAGE RD.

5062+00

5063+00

5064+00

5065+00

5066+00

LEFT TURN LANE
R3-5SL
ESTR

W6-2
ESTR

WRONG WAY
R5-1A
ESTR

W6-3
ESTR

DO NOT ENTER
R5-1
ESTR

W1-6
ESTR

SHEET 26 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 146	E

2

2

LEGEND

EXISTING SIGN MOUNTED ON POST(S)

EXISTING SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

PROPOSED SIGN MOUNTED ON POST(S)

PROPOSED SIGN MOUNTED ON BRIDGE OR SIGN BRIDGE

(XX) PROPOSED TRAFFIC SIGNAL, 35'-55' ARM

PROPOSED LIGHT POLE

EXISTING LIGHT OR SIGNAL POLE

XXX DENOTES SIGN NUMBER

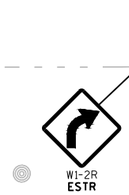
(X) INDICATES SIGN SIZE

N



5066+00 5067+00 5068+00 5069+00 5070+00 5071+00 5072+0

EAST FRONTAGE RD.



SHEET 27 OF 27

PROJECT NO: 1030-11-71	HWY: IH-41/94 @ CTH K	COUNTY: RACINE	PERMANENT SIGNING	SHEET 147	E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIGN\023201_PS.DWG
LAYOUT NAME - 023227_PS

PLOT DATE : 4/4/2017 9:29 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME : PLOT SCALE : **********

2

2

N

EXISTING CABINET
TO REMAIN

HL-51-RJ	
A,C,E,G	RED
B,D,F,H	BLACK
240/480 VAC 3W ISOLATED NEUTRAL	

W FRONTAGE RD

CTH K

FUHRMAN DR

IH 94 SB

IH 94 NB

SB OFF RAMP

SHEET 1 OF 1

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PROJECT OVERVIEW	SHEET 148	E

FILE NAME : N:\PDS\C3D\CAD\10301100\LIGHT\023600_LP.DWG
LAYOUT NAME - 023600_LP

PLOT DATE : 10/31/2016 2:27 PM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42

2

GENERAL NOTES:

HIGHWAY LIGHTING SHALL BE INSTALLED IN COMPLIANCE WITH WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS SECTION 652 TO 657 AND 659 EXCEPT:

1. DETAILS OF CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THESE DRAWINGS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.
2. LOCATIONS OF THE PVC CONDUITS ARE INDENTIFIED IN THE PLANS WHERE THEY ARE REQUIRED. HOWEVER, INSTALLATION WILL REQUIRE INTEGRATION WITH EXISTING FIELD CONDITIONS. UNDER THE APPROVAL OF THE ENGINEER, APPROPRIATE ADJUSTMENT OF CONDUIT LOCATIONS MAY BE MADE IF THE FIELD CONDITIONS ARE SUCH THAT THE CONDUIT CANNOT BE INSTALLED AT THE SPECIFIED LOCATIONS. FIELD MARK EACH CONDUIT LOCATION IN RED TO ILLUSTRATE AS BUILT CONDITIONS.
3. THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.
4. ALL OPEN AND UNTERMINATED CONDUITS SHALL BE CAPPED OR PLUGGED WITH ENGINEER APPROVED FITTINGS IMMEDIATLY AFTER INSTALLATION.
5. BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR IMMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.
6. ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON ALL CONDUITS.
7. PRIOR TO CONDUIT ACCEPTANCE, ALL CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND BE CAPPED WITH THE APPROPRIATE CAST PLASTIC CAP WHICH FITS SNUGGLY ON THE CONDUIT THAT CAN BE EASILY REMOVED. DUCT TAPE OR ANY OTHER CAPPING METHOD IS NOT ACCEPTABLE.
8. CONDUIT RUNS SHALL BE THE SAME SIZE PIPE FROM ONE END TO THE OTHER (FROM PULL BOX-TO-PULL BOX, JUNCTION BOX OR BASE-TO-BASE, ETC.) UNLESS OTHERWISE NOTED ON PLANS.
9. PULL ROPE (3/8-INCH NYLON) SHALL BE INSTALLED IN ALL NEW CONDUITS.
10. CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS (PDF FORMAT) FOR ALL THE WORK BEING DONE.
11. CONDUIT LATERALS SHALL BE TRENCHED UNDER PAVEMENT BEFORE PAVEMENT CONSTRUCTION.
12. PITCH ALL CONDUITS TOWARD PULL BOXES. INSTALL A 2" DRAIN DUCT TO STORM SEWER OR DRAIN SUMP AS REQUIRED FOR DRAINAGE. THE 2" DRAIN DUCT OR SUMP IS INCIDENTAL TO THE PULL BOX BID ITEM AND IS NOT SHOWN.
13. 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.

    HAND DIGGING MAY BE REQUIRED FOR LOCATIONS ADJACENT TO EXISTING GAS AND POWER LINES. HAND EXCAVATION SHOULD BE ANTICIPATED &
14. WILL BE CONSIDERED INCIDENTAL TO THE CONCRETE BASES BID ITEM. COORDINATE ALL WORK NEAR GAS LINE WITH WE ENERGIES.

    UNDERGROUND WIRE & CONDUIT SHOWN ON REMOVAL PLANS FOR REMOVAL SHALL BE ABANDONED IN PLACE UNLESS DIRECTED BY THE ENGINEER. CONTRACTOR MAY CHOOSE TO REMOVE CONDUCTOR AT THEIR OWN EXPENSE.
15. EXISTING CONDUIT AND CID NO LONGER BEING USED IS ABANDONED IN PLACE. THE CONTRACTOR MAY REMOVE ABANDONED WIRING A THE CONTRACTOR'S EXPENSE. ABANDONED PULL BOX REMOVAL IS INCIDENTAL TO THE ROAD CONSTRUCTION.
16. ALL UNDERGROUND WIRING AND CONDUIT FOR POLES BEING REMOVED IS ABANDONED IN PLACE UNLESS NOTED OTHERWISE. CONTRACTOR MAY SALVAGE ABANDONED WIRING AT HIS OWN EXPENSE.
17. PROVIDE REMOVABLE SEALANT SUCH AS DUCT SEAL IN THE CONDUITS AT THE CABINET, PULL BOXES, AND JUNCTION BOXES TO AVOID CONDENSATION CAUSED BY AIRFLOW THROUGH THE CONDUITS DUE TO TEMPERATURE DIFFERENCE. THIS WORK SHALL BE INCIDENTAL TO THE
18. ASSOCIATED CONDUIT PAY ITEM.
19. PROVIDE MINIMUM CABLE SLACK AS MENTIONED BELOW:

PULL BOXES:	10-FT
EMBEDDED JUCTION BOXES:	3-FT
DISTRIBUTION CENTER/LOAD CENTER:	10-FT
POLES:	5-FT IN AND 5-FT OUT

2

2

N

W FRONTAGE RD

FUHRMAN DR

SB OFF RAMP

IH 94 SB

IH 94 NB

CTH K

PB AND CONDUIT TO
THE EAST TO REMAIN

OH

OH

OH

W FRONTAGE RD

SHEET 1 OF 2

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	LIGHTING REMOVAL PLAN	SHEET 150	E

FILE NAME : N:\PDS\C3D\CAD\10301100\LIGHT\023501_LP.DWG
LAYOUT NAME - 023501_LP

PLOT DATE : 10/31/2016 1:36 PM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

IH 94 SB

IH 94 NB

NE FRONTAGE RD

CTH K

HL-51-RJ

A,C,E,G	RED
B,D,F,H	BLACK

240/480 VAC 3W
ISOLATED NEUTRAL

REMOVE LIGHTING WIRE LEAVE CONDUIT IN PLACE SEE SIGNAL PLAN

OH

LEGEND

- DISTRIBUTION CENTER
- CONTROL CABINET
- CONDUIT - 2" UNLESS OTHERWISE NOTED
- INSTALL LIGHTING UNIT WITH LED-C LUMINAIRE
- INSTALL LED-B LUMINAIRE
- INSTALL POST TOP LUMINAIRE UTILITY LED
- CONDUIT STUBOUT
- PULL BOX, 24"x42"
- PULL BOX 24"x36"
- JUNCTION BOX

SHEET 2 OF 2

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	LIGHTING REMOVAL PLAN	SHEET 151	E

LEGEND

- DISTRIBUTION CENTER
- CONTROL CABINET
- CONDUIT - 2" UNLESS OTHERWISE NOTED
- INSTALL LIGHTING UNIT WITH LED-C LUMINAIRE
- INSTALL LED-B LUMINAIRE
- INSTALL POST TOP LUMINAIRE UTILITY LED
- CONDUIT STUBOUT
- PULL BOX, 24"x42"
- PULL BOX 24"x36"
- JUNCTION BOX

28+30.00EB, -23.78' LT
LED-C-5(T)-6-BRJ4/ARJ4

3 # 8 A,B,N
1 # 8 GND

30+30.00EB, -30.45' LT
LED-C-5(T)-6-ARJ3/BRJ3

32+30.00EB, -7.00' LT
LED-C-5(T)-6-BRJ2/ARJ2

4054+20.00, -16.00' LT
LED-C-5(T)-6-ARJ1/BRJ1

4054+09.97, -16.00' LT
LPB 105

32+36.00WB, -61.32' LT
LPB 106

3 # 8 A,B,N
1 # 8 GND

32+36.00EB, -30.93' LT
LPB 107

3 # 4 A,B,N
3 # 8 A,B,N
2 # 8 GND

3 # 8 A,B,N
1 # 8 GND

3 # 8 A,B,N
1 # 8 GND

CTH K WB

CTH K EB

3 # 8 A,B,N
3 # 8 A,B,N
2 # 8 GND

3 # 8 A,B,N
1 # 8 GND

32+36.00EB, -7.00' LT
LPB 108

2058+77.46, -16.00' LT
LPB 109

2058+60.00, -16.00' LT
LED-C-5(T)-6-DRJ2/CRJ2

3 # 4 C,D,N
3 # 8 C,B,N
3 # 8 C,D,N
3 # 8 GND

3 # 8 C,D,N
1 # 8 GND

STATION — OFFSET

100+00.00, (100.00'RT)
LED-B-5(T)-15-2WC1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

SHEET 1 OF 6

PROJECT NO: 1030-11-71	HWY: 94/CTH K	COUNTY: RACINE	LIGHTING PLAN - FINAL	SHEET 152 E

FILE NAME : N:\PDS\C3D\CAD\10301100\LIGHT\023601_LP.DWG
LAYOUT NAME - 023601_LP

PLOT DATE : 11/29/2016 10:30 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- DISTRIBUTION CENTER
- CONTROL CABINET
- CONDUIT - 2" UNLESS OTHERWISE NOTED
- INSTALL LIGHTING UNIT WITH LED-C LUMINAIRE
- INSTALL LED-B LUMINAIRE
- INSTALL POST TOP LUMINAIRE UTILITY LED
- CONDUIT STUBOUT
- PULL BOX, 24"x42"
- PULL BOX 24"x36"
- JUNCTION BOX

N

CTH K WB

CTH K EB

28+30.00EB, -23.78' LT
LED-C-5(T)-6-BRJ4/ARJ4

3 # 8 A,B,N
1 # 8 GND

30+30.00EB, -30.45' LT
LED-C-5(T)-6-ARJ3/BRJ3

3 # 8 A,B,N
1 # 8 GND

32+30.00EB, -7.00' LT
LED-C-5(T)-6-BRJ2/ARJ2

4054+20.00, -16.00' LT
LED-C-5(T)-6-ARJ1/BRJ1

4054+09.97, -16.00' LT
LPB 105

32+36.00WB, -61.32' LT
LPB 106

3 # 8 A,B,N
1 # 8 GND

3 # 4 A,B,N
3 # 8 A,B,N
2 # 8 GND

32+36.00EB, -30.93' LT
LPB 107

3 # 8 A,B,N
1 # 8 GND

3 # 8 A,B,N
1 # 8 GND

3 # 8 A,B,N
3 # 8 A,B,N
2 # 8 GND

3 # 4 C,D,N
3 # 8 C,B,N
3 # 8 C,D,N
3 # 8 GND

3 # 8 C,D,N
1 # 8 GND

32+36.00EB, -7.00' LT
LPB 108

2058+77.46, -16.00' LT
LPB 109

2058+60.00, -16.00' LT
LED-C-5(T)-6-DRJ2/CRJ2

STATION — OFFSET

100+00.00, (100.00'RT)
LED-B-5(T)-15-2WC1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

SHEET 2 OF 6

PROJECT NO: 1030-11-71	HWY: 94/CTH K	COUNTY: RACINE	LIGHTING PLAN - SCHEMATIC	SHEET 153 E

FILE NAME : N:\PDS\C3D\CAD\10301100\LIGHT\023651_LP.DWG
LAYOUT NAME - 023651_LP

PLOT DATE : 11/29/2016 10:30 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

34+15.01WB, -58.32' LT
LPB 101

33+90.00WB, 7.00' RT
LED-C-5(T)-6-CRJ1/DRJ1

3 # 4 A,B,N
3 # 4 C,D,N
2 # 8 GND

37+74.45WB, -41.00' LT
EXISTING LPB 104

37+90.00EB, -8.08' LT
LED-C-5(T)-6-CRJ1

EXISTING CONDUIT
TO REMAIN

3 # 4 A,B,N
3 # 4 C,D,N
2 # 8 GND

34+15.01EB, -29.00' LT
LPB 102

34+00WB 35+00WB CTH K WB 36+00WB 37+00WB 38+00WB 39+00WB 40

34+00EB 35+00EB 36+00EB 37+00EB 38+00EB 39+00EB 40

3 # 4 C,D,N
3 # 8 C,D,N
3 # 8 C,D,N
3 # 8 GND

34+15.01EB, -5.00' LT
LPB 103

CTH K EB

3 # 8 C,D,N
1 # 8 GND

3 # 8 C,D,N
1 # 8 GND

35+90.00EB, -5.00' LT
LED-C-5(T)-6-DRJ3/CRJ3

2 # 8 C,N
1 # 8 GND

34+15.01EB, 46.03' RT
LPB 104

STATION OFFSET

100+00.00, (100.00'RT)
LED-B-5(T)-15-2WC1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

LEGEND

- DISTRIBUTION CENTER
- CONTROL CABINET
- CONDUIT - 2" UNLESS OTHERWISE NOTED
- INSTALL LIGHTING UNIT WITH LED-C LUMINAIRE
- INSTALL LED-B LUMINAIRE
- INSTALL POST TOP LUMINAIRE UTILITY LED
- CONDUIT STUBOUT
- PULL BOX, 24"x42"
- PULL BOX 24"x36"
- JUNCTION BOX

SHEET 3 OF 6

PROJECT NO:1030-11-71	HWY: 94/CTH K	COUNTY: RACINE	LIGHTING PLAN - FINAL	SHEET 154 E

2

N

34+15.01WB, -58.32' LT
LPB 101

33+90.00WB, 7.00' RT
LED-C-5(T)-6-CRJ1/DRJ1

3 # 4 A,B,N
3 # 4 C,D,N
2 # 8 GND

37+74.45WB, -41.00' LT
EXISTING LPB 104

37+90.00EB, -8.08' LT
LED-C-5(T)-6-CRJ1

EXISTING CONDUIT
TO REMAIN

3 # 4 A,B,N
3 # 4 C,D,N
2 # 8 GND

34+15.01EB, -29.00' LT
LPB 102

34+00WB 35+00WB 36+00WB 37+00WB 38+00WB 39+00WB 40

CTH K WB

34+00EB 35+00EB 36+00EB 37+00EB 38+00EB 39+00EB 40

3 # 4 C,D,N
3 # 8 C,D,N
3 # 8 C,D,N
3 # 8 GND

34+15.01EB, -5.00' LT
LPB 103

CTH K EB

3 # 8 C,D,N
1 # 8 GND

3 # 8 C,D,N
1 # 8 GND

35+90.00EB, -5.00' LT
LED-C-5(T)-6-DRJ3/CRJ3

2 # 8 C,N
1 # 8 GND

34+15.01EB, 46.03' RT
LPB 104

STATION — OFFSET

100+00.00, (100.00'RT)
LED-B-5(T)-15-2WC1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

LEGEND

- DISTRIBUTION CENTER
- CONTROL CABINET
- CONDUIT - 2" UNLESS OTHERWISE NOTED
- INSTALL LIGHTING UNIT WITH LED-C LUMINAIRE
- INSTALL LED-B LUMINAIRE
- INSTALL POST TOP LUMINAIRE UTILITY LED
- CONDUIT STUBOUT
- PULL BOX, 24"x42"
- PULL BOX 24"x36"
- JUNCTION BOX

PROJECT NO: 1030-11-71	HWY: 94/CTH K	COUNTY: RACINE	LIGHTING PLAN - SCHEMATIC	SHEET 155	E

FILE NAME : N:\PDS\C3D\CAD\10301100\LIGHT\023651_LP.DWG
LAYOUT NAME - 023652_LP
PLOT DATE : 11/29/2016 10:30 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

EXISTING LPB 103
TO REMAIN

EXISTING LPB 102
TO REMAIN

EXISTING WP-ARJ5
TO REMAIN

3 # 4 A,B,N
3 # 4 C,D,N
2 # 8 GND

EXISTING WP-BRJ6
TO REMAIN

EXISTING LPB 101
TO REMAIN

EXISTING WP-BRJ7
TO REMAIN

EXISTING LIGHTING CABINET
AND LPB TO REMAIN

EXISTING LPB 105
TO REMAIN

EXISTING WP-ARJ8
TO REMAIN

IH 94 / USH 41

1057+00
1056+00
1055+00
1054+00

40+00WB
41+00WB
42+00WB
43+00WB
44+00WB
45+00WB
46+00

40+00EB
41+00EB
42+00EB
43+00EB
44+00EB
45+00EB
46+

CTH K

CTH K

LEGEND

- DISTRIBUTION CENTER
- CONTROL CABINET
- CONDUIT - 2" UNLESS OTHERWISE NOTED
- INSTALL LIGHTING UNIT WITH LED-C LUMINAIRE
- INSTALL LED-B LUMINAIRE
- INSTALL POST TOP LUMINAIRE UTILITY LED
- CONDUIT STUBOUT
- PULL BOX, 24"x42"
- PULL BOX 24"x36"
- JUNCTION BOX

STATION — OFFSET

100+00.00, (100.00'RT)
LED-B-5(T)-15-2WC1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

SHEET 5 OF 6

PROJECT NO: 1030-11-71	HWY: 94/CTH K	COUNTY: RACINE	LIGHTING PLAN - FINAL	SHEET 156	E

2

2

EXISTING LPB 103
TO REMAIN

EXISTING LPB 102
TO REMAIN

EXISTING WP-ARJ5
TO REMAIN

3 # 4 A,B,N
3 # 4 C,D,N
2 # 8 GND

EXISTING WP-BRJ6
TO REMAIN

EXISTING LPB 101
TO REMAIN

EXISTING WP-BRJ7
TO REMAIN

EXISTING LIGHTING CABINET
AND LPB TO REMAIN

EXISTING LPB 105
TO REMAIN

EXISTING WP-ARJ8
TO REMAIN

IH 94 / USH 41

1057+00
1056+00
1055+00
1054+00

40+00WB
41+00WB
42+00WB
43+00WB
44+00WB
45+00WB
46+00

40+00EB
41+00EB
42+00EB
43+00EB
44+00EB
45+00EB
46+

CTH K

N

LEGEND

- DISTRIBUTION CENTER
- CONTROL CABINET
- CONDUIT - 2" UNLESS OTHERWISE NOTED
- INSTALL LIGHTING UNIT WITH LED-C LUMINAIRE
- INSTALL LED-B LUMINAIRE
- INSTALL POST TOP LUMINAIRE UTILITY LED
- CONDUIT STUBOUT
- PULL BOX, 24"x42"
- PULL BOX 24"x36"
- JUNCTION BOX

STATION — OFFSET

100+00.00, (100.00'RT)
LED-B-5(T)-15-2WC1

- CIRCUIT, SOURCE, POLE #
- ARM LENGTH
- POLE TYPE ON T-BASE
- LUMINAIRE CATEGORY
- LUMINAIRE SOURCE

SHEET 6 OF 6

PROJECT NO:1030-11-71	HWY: 94/CTH K	COUNTY: RACINE	LIGHTING PLAN - SCHEMATIC	SHEET 157 E

FILE NAME : N:\PDS\C3D\CAD\10301100\LIGHT\023651_LP.DWG
LAYOUT NAME - 023653_LP

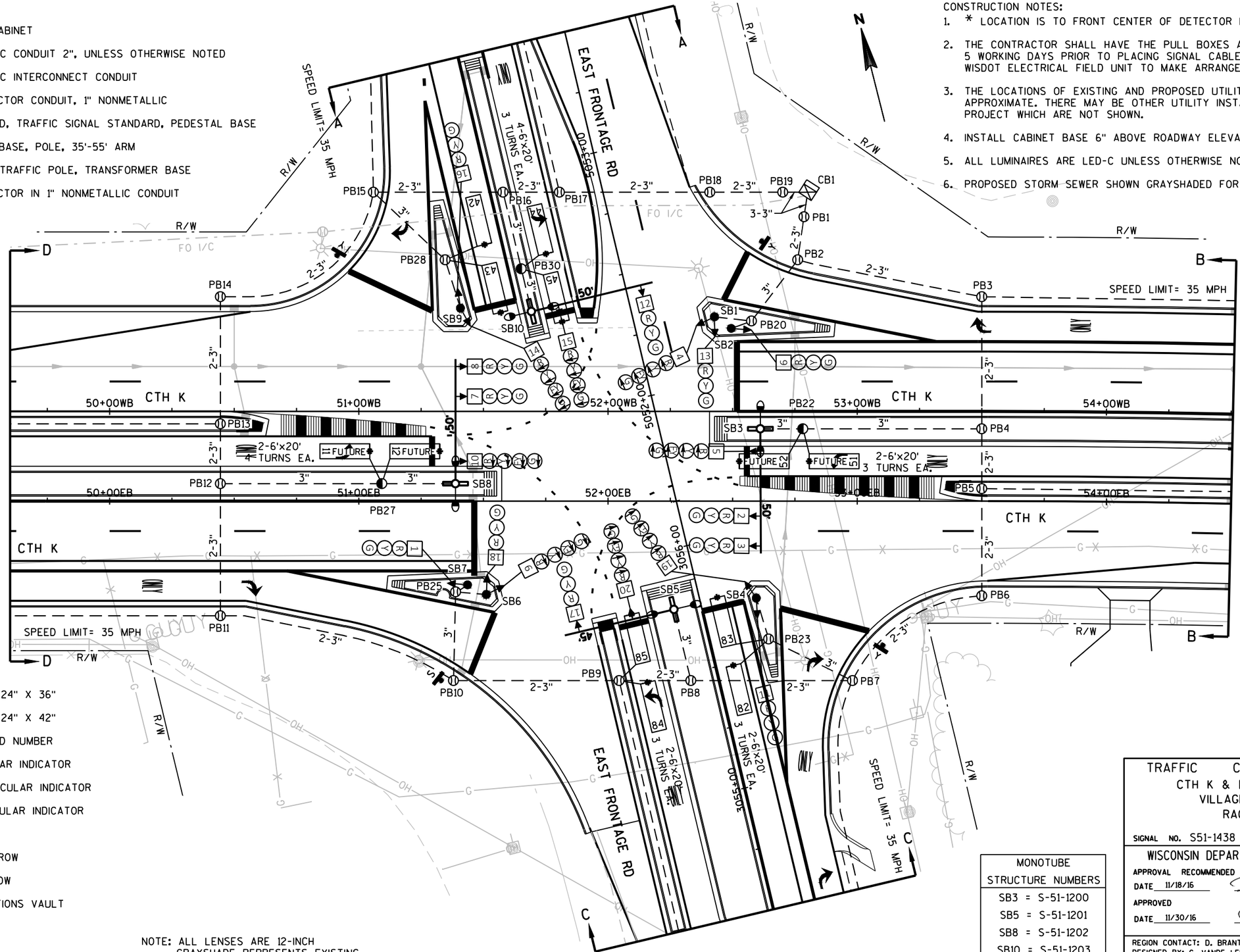
PLOT DATE : 11/29/2016 10:30 AM PLOT BY : DODGE, BRIAN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- NONMETALLIC INTERCONNECT CONDUIT
- LOOP DETECTOR CONDUIT, 1" NONMETALLIC
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- (XX) MONOTUBE BASE, POLE, 35'-55' ARM
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- * * LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL FIELD UNIT TO MAKE ARRANGEMENTS. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. INSTALL CABINET BASE 6" ABOVE ROADWAY ELEVATION.
5. ALL LUMINAIRES ARE LED-C UNLESS OTHERWISE NOTED.
6. PROPOSED STORM SEWER SHOWN GRAYSHADED FOR PLAN CLARITY.



- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RA RED ARROW
- FYA YELLOW ARROW
- GA GREEN ARROW
- V COMMUNICATIONS VAULT
- Y YIELD SIGN
- S STOP SIGN

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

MONOTUBE STRUCTURE NUMBERS
SB3 = S-51-1200
SB5 = S-51-1201
SB8 = S-51-1202
SB10 = S-51-1203

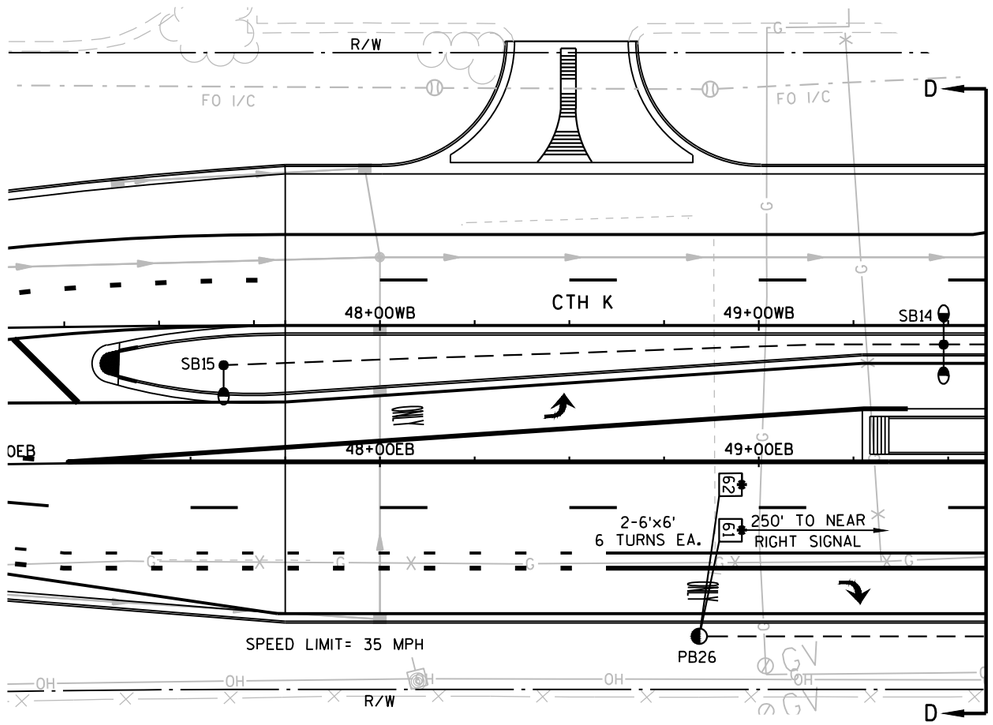
TRAFFIC CONTROL SIGNAL
CTH K & EAST FRONTAGE RD
VILLAGE OF CALEDONIA
RACINE COUNTY
CABINET TYPE: TS2
SIGNAL NO. S51-1438 CONTROLLER TYPE: ECONOLITE

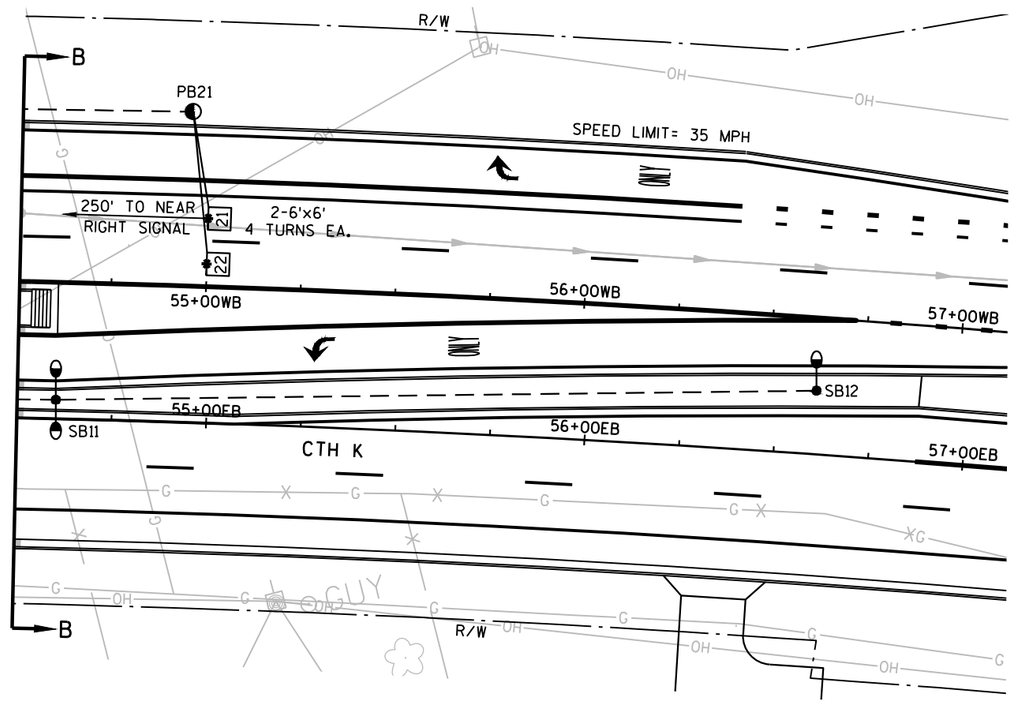
WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVAL RECOMMENDED
DATE 11/18/16 David A. Brantner, P.E. REGION TRAFFIC ENGINEER
APPROVED
DATE 11/30/16 Joanna L. Bush STATE TRAFFIC ENGINEER
REGION CONTACT: D. BRANTNER
DESIGNED BY: C. VANDE LEEST
REVISED BY:
PAGE 1 OF 4

PROJECT NO: 1030-11-71	HWY: CTH K	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 158 E

FILE NAME : N:\PDS\C3D\CAD\10301100\SIG\S51-1438\S51-1438.DWG
LAYOUT NAME - S51-1438_PG1
PLOT DATE : 11/30/2016 11:26 AM PLOT BY : VANDE LEEST, CYNTHIAPLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2





TRAFFIC CONTROL SIGNAL
CTH K & EAST FRONTAGE RD
VILLAGE OF CALENDONIA
RACINE COUNTY

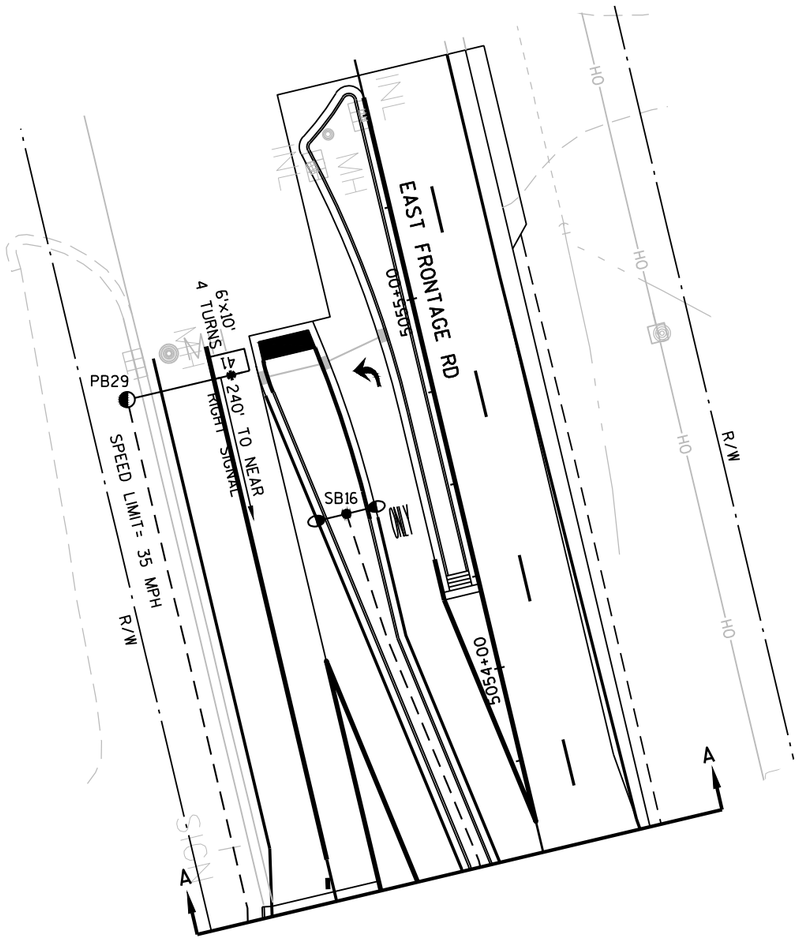
SIGNAL NO. S51-1438

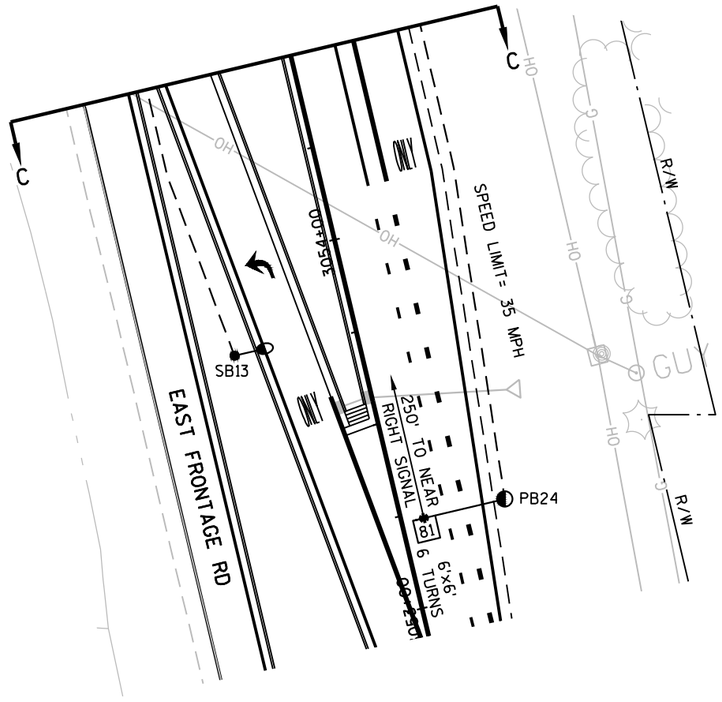
REGION CONTACT: D. BRANTNER
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 2 OF 4

PROJECT NO: 1030-11-71	HWY: CTH K	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 159	E

2





TRAFFIC CONTROL SIGNAL
CTH K & EAST FRONTAGE RD
VILLAGE OF CALENDONIA
RACINE COUNTY

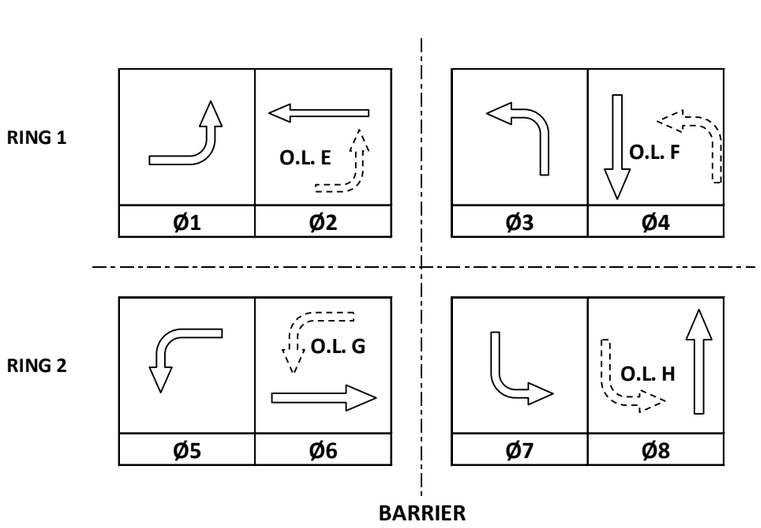
SIGNAL NO. S51-1438

REGION CONTACT: D. BRANTNER
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 3 OF 4

PROJECT NO: 1030-11-71	HWY: CTH K	COUNTY: RACINE	TRAFFIC SIGNAL PLAN	SHEET 160	E

	HEAD NUMBERS	FLASH
Ø1	4,5	R ←
Ø2	6,7,8	R
Ø3	14,15	R ←
Ø4	16,17,18	R
Ø5	9,10	R ←
Ø6	1,2,3	R
Ø7	19,20	R ←
Ø8	11,12,13	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLE	9,10	-
OLF	19,20	-
OLG	4,5	-
OLH	14,15	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6	---	X
2	X	6	MIN	X
3		8	---	X
4		8	---	X
5		2	---	X
6	X	2	MIN	X
7		4	---	X
8		4	---	X

TYPE OF INTERCONNECT/COMMUNICATION	
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	
RADIO	
CELL MODEM	X

TYPE OF COORDINATION	
NONE	X
TBC	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS-

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	
GTT	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	41	43	45	52	62	82
CALLED PHASE		2	4	4	4		6	8
CALL OPTION		X		X	X		X	X
DELAY TIME								
EXTENTION OPTION		X	X	X	X		X	X
EXTEND TIME			X					
USE ADDED INITIAL		X					X	
CROSS SWITCH PHASE								

DETECTOR INPUT	19	17	23	21	27	25	31	29
PLAN LOOP DETECTOR*(S)	84							
CALLED PHASE	8							
CALL OPTION	X							
DELAY TIME								
EXTENTION OPTION	X							
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	22	42	44	51	61	81	83
CALLED PHASE		2	4	4		6	8	8
CALL OPTION		X	X	X		X		X
DELAY TIME								
EXTENTION OPTION		X	X	X		X	X	X
EXTEND TIME							X	
USE ADDED INITIAL		X				X		
CROSS SWITCH PHASE								

DETECTOR INPUT	20	18	24	22	28	26	32	30
PLAN LOOP DETECTOR*(S)	85							
CALLED PHASE	8							
CALL OPTION	X							
DELAY TIME								
EXTENTION OPTION	X							
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

IH-94/CTH K & E FRONTAGE RD
VILLAGE OF CALEDONIA
RACINE COUNTY

SIGNAL NO: S51-1438 CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: 10/16 PAGE NO. 4 OF 4

PROJECT NO: 1030-11-71	HWY: CTH K	COUNTY: RACINE	SEQUENCE OF OPERATIONS	SHEET NO: 161	E

FILE NAME : _____ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT SCALE : 1:1

2

PROJECT ID:	1030-11-71
INTERSECTION:	CTH K & EAST FRONTAGE RD

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	AWG14 # OF CONDUCTORS	HEAD NO.	SIGNAL INDICATION WIRE COLOR									PED BUTTON
			RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK	
SB1	12	4				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
		13	RED	ORG	GRN							
SB2	7	6	RED	ORG	GRN							
SB3	12	2	RED	ORG	GRN							
		3	RED	ORG	GRN							
		5				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
SB4	12	11	RED	ORG	GRN							
		19				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
SB5	12	17	RED	ORG	GRN							
		20				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
SB6	12	9				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
		18	RED	ORG	GRN							
SB7	7	1	RED	ORG	GRN							
SB8	12	7	RED	ORG	GRN							
		8	RED	ORG	GRN							
		10				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			
SB9	12	14				RED	ORG	GRN	BLK/WHT			
		16	RED/BLK	ORG/BLK	GRN/BLK							
SB10	12	12	RED	ORG	GRN							
		15				RED/BLK	ORG/BLK	GRN/BLK	BLK/WHT			

*Use the white conductor in the cable assembly as the grounded conductor for all traffic signal indications
*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.
*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.
*Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
PB1	CB1
PB2	CB1
PB3	CB1
PB4	SB3
PB5	SB3
PB6	SB4
PB7	SB4
PB8	SB5
PB9	SB5
PB10	SB7
PB11	SB7
PB12	SB8
PB13	SB8
PB14	SB9
PB15	SB9
PB16	SB10
PB17	SB10
PB18	CB1
PB19	CB1
PB20	SB2
PB22	SB3
PB23	SB4
PB25	SB7
PB27	SB8
PB28	SB9
PB30	SB10

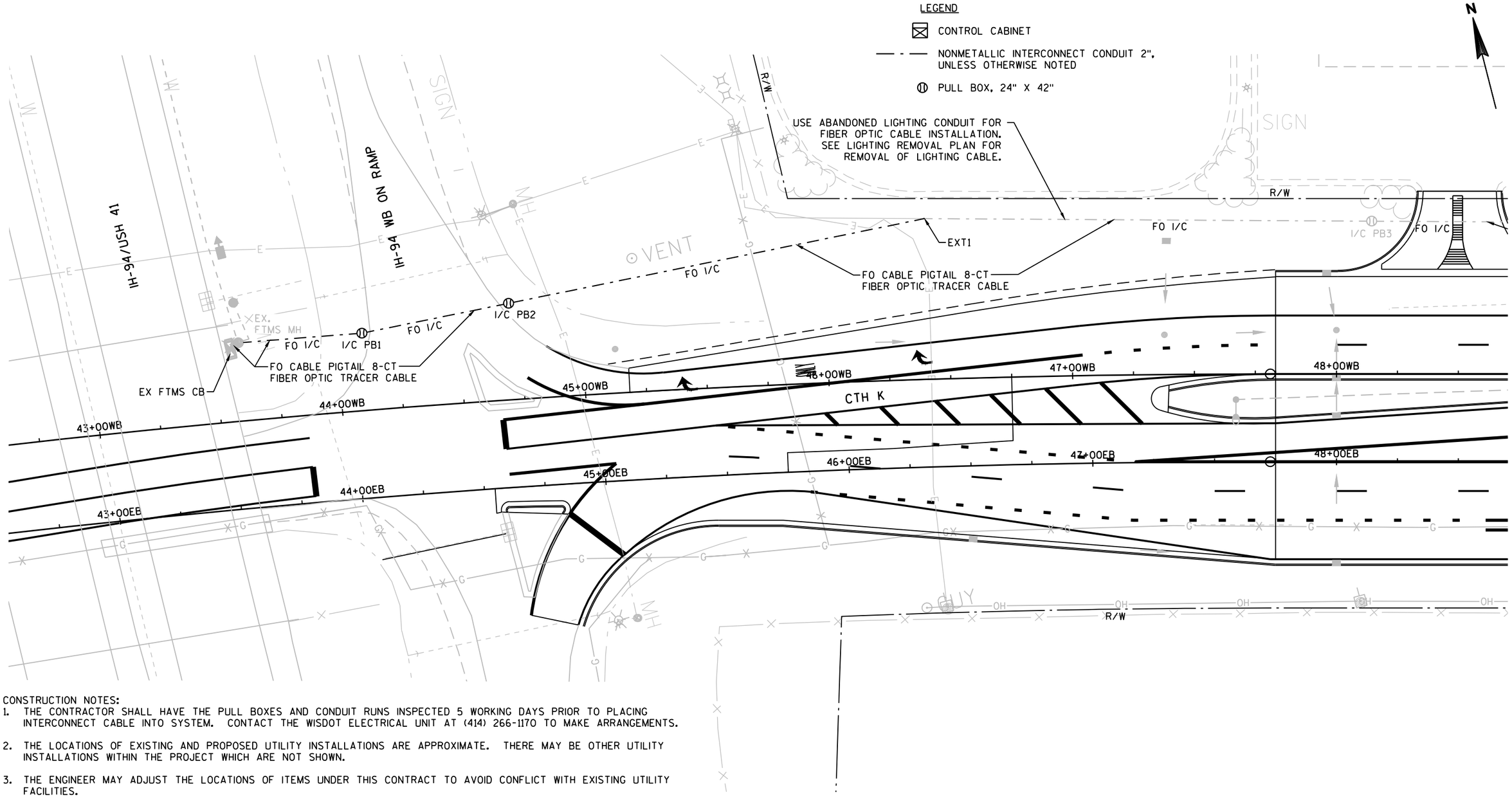
Equipment Grounding Conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	CB1

Lighting UF #10 w/ground	
From	To
CB1	SB3
SB3	SB11
SB11	SB12
SB11	SB5
SB5	SB13
CB1	SB16
SB16	SB10
SB10	SB14
SB14	SB15
SB14	SB8

2

LEGEND

- CONTROL CABINET
- NONMETALLIC INTERCONNECT CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 42"



CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 5 WORKING DAYS PRIOR TO PLACING INTERCONNECT CABLE INTO SYSTEM. CONTACT THE WISDOT ELECTRICAL UNIT AT (414) 266-1170 TO MAKE ARRANGEMENTS.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER MAY ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
4. LEAVE 100-FEET OF FIBER OPTIC INTERCONNECT PIGTAIL COILED IN EACH COMMUNICATIONS VAULT AND 30-FEET IN EACH PULL BOX.
5. THE ENTIRE MAINLINE FIBER OPTIC CABLE SHALL NOT BE CUT AND/OR SPLICED IN THE VAULTS NEAREST THE TRAFFIC SIGNAL CABINET WHILE MAKING THE PIGTAIL CONNECTION. ONLY THE REQUIRED BUFFER TUBE SHALL BE CUT AND SPLICED WITH THE PIGTAIL CONNECTION.
6. INCIDENTAL 14 AWG PULL WIRE TO BE INSTALLED AS FIBER OPTIC TRACER WIRE IN INTERCONNECT CONDUIT.
7. PROPOSED STORM SEWER, LIGHTING, FTMS, DETECTABLE WARNING FIELDS, AND TRAFFIC SIGNALS ARE SHOWN GRAYSHADED FOR PLAN CLARITY.

TRAFFIC CONTROL INTERCONNECT
CTH K & EAST FRONTAGE RD
VILLAGE OF CALENDONIA
RACINE COUNTY

SIGNAL NO. S51-1438

REGION CONTACT: D. BRANTNER
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 1 OF 2

PROJECT NO: 1030-11-71	HWY: CTH K	COUNTY: RACINE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 163	E

2

N

USE ABANDONED LIGHTING CONDUIT FOR FIBER OPTIC CABLE INSTALLATION. SEE LIGHTING REMOVAL PLAN FOR REMOVAL OF LIGHTING CABLE.

FO CABLE PIGTAIL 8-CT FIBER OPTIC TRACER CABLE

FO CABLE PIGTAIL 8-CT FIBER OPTIC TRACER CABLE

CB1 (S51-1438)

FRONTAGE RD

EAST FRONTAGE

CTH K

R/W

FO I/C

I/C PB3

I/C PB4

I/C PB5

48+00WB

49+00WB

50+00WB

51+00WB

52+00WB

53+00WB

48+00EB

49+00EB

50+00EB

51+00EB

52+00EB

53+00EB

3053+00

3056+00

3055+00

TRAFFIC CONTROL INTERCONNECT
CTH K & EAST FRONTAGE RD
VILLAGE OF CALENDONIA
RACINE COUNTY

SIGNAL NO. S51-1438

REGION CONTACT: D. BRANTNER
DESIGNED BY: C. VANDE LEEST
REVISED BY:

PAGE 2 OF 2

PROJECT NO: 1030-11-71	HWY: CTH K	COUNTY: RACINE	TRAFFIC SIGNAL INTERCONNECT PLAN	SHEET 164 E

2

2

N

LEGEND

X X X X X = REMOVE PAVEMENT MARKING

REMOVING PAVEMENT MARKINGS
EDGE LINE (WHITE)
(STA 2056+11 TO STA 2057+54)

REMOVING PAVEMENT MARKINGS
EDGE LINE (WHITE)
(STA 4055+75 TO STA 4057+56)

REMOVING PAVEMENT MARKINGS
EDGE LINE (WHITE)
(STA 2054+57 TO STA 2057+25)

REMOVING PAVEMENT MARKINGS
EDGE LINE (WHITE)
(STA 4055+20 TO STA 4055+60)

WEST FRONTAGE ROAD

WEST FRONTAGE ROAD

CTH K

30EB

30WB

32EB

32WB

34EB

34WB

36EB

36WB

38EB

38WB

2052

2054

2056

2058

4054

4056

4058

SHEET 1 OF 2

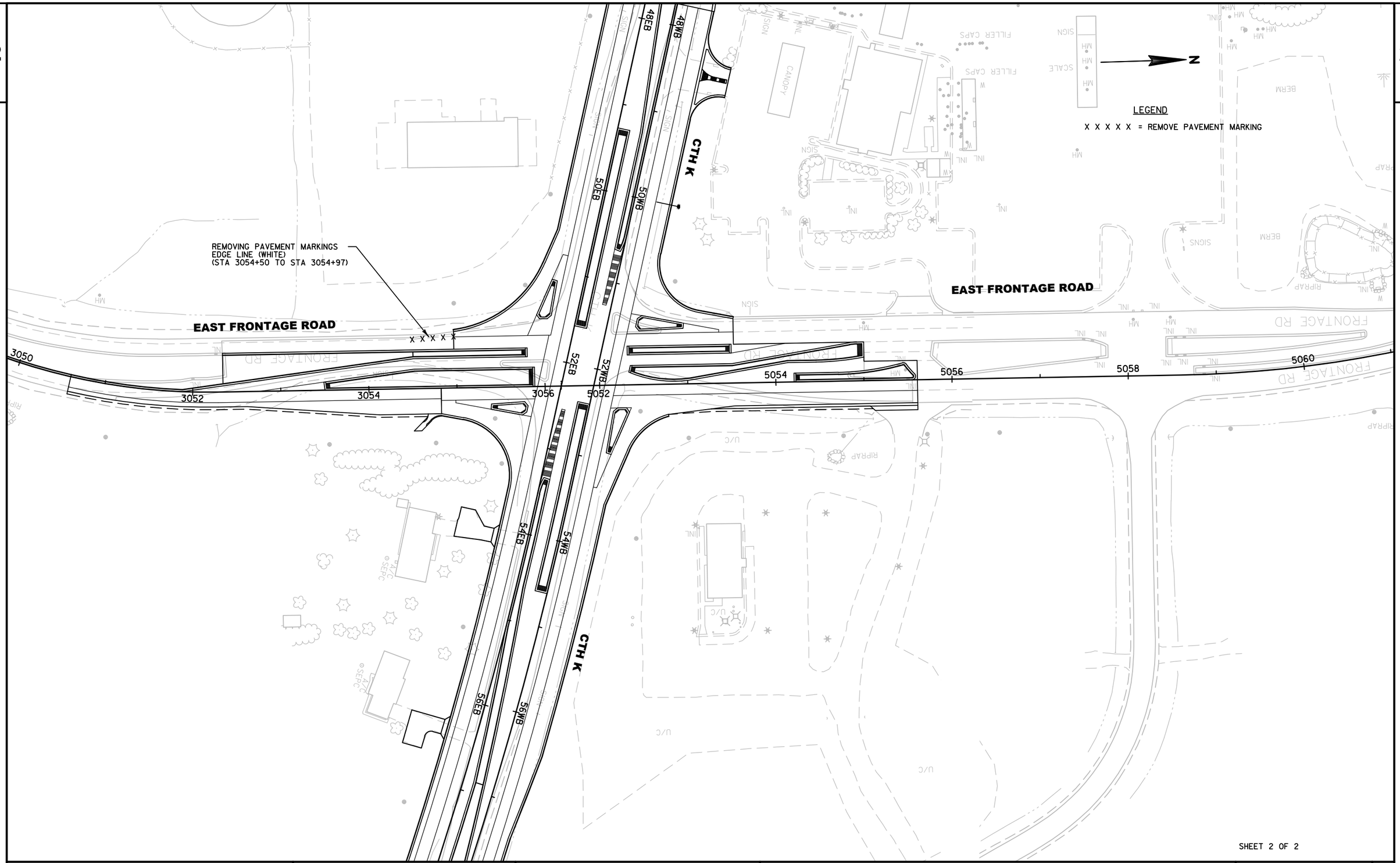
PROJECT NO: 1030-11-71	HWY: IH 94 / CTH K	COUNTY: RACINE	REMOVING PAVEMENT MARKING	SHEET	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\024500_PM-REMOVALS.DWG
LAYOUT NAME - 024501_PM

PLOT DATE : 10/27/2016 2:46 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:100 FT

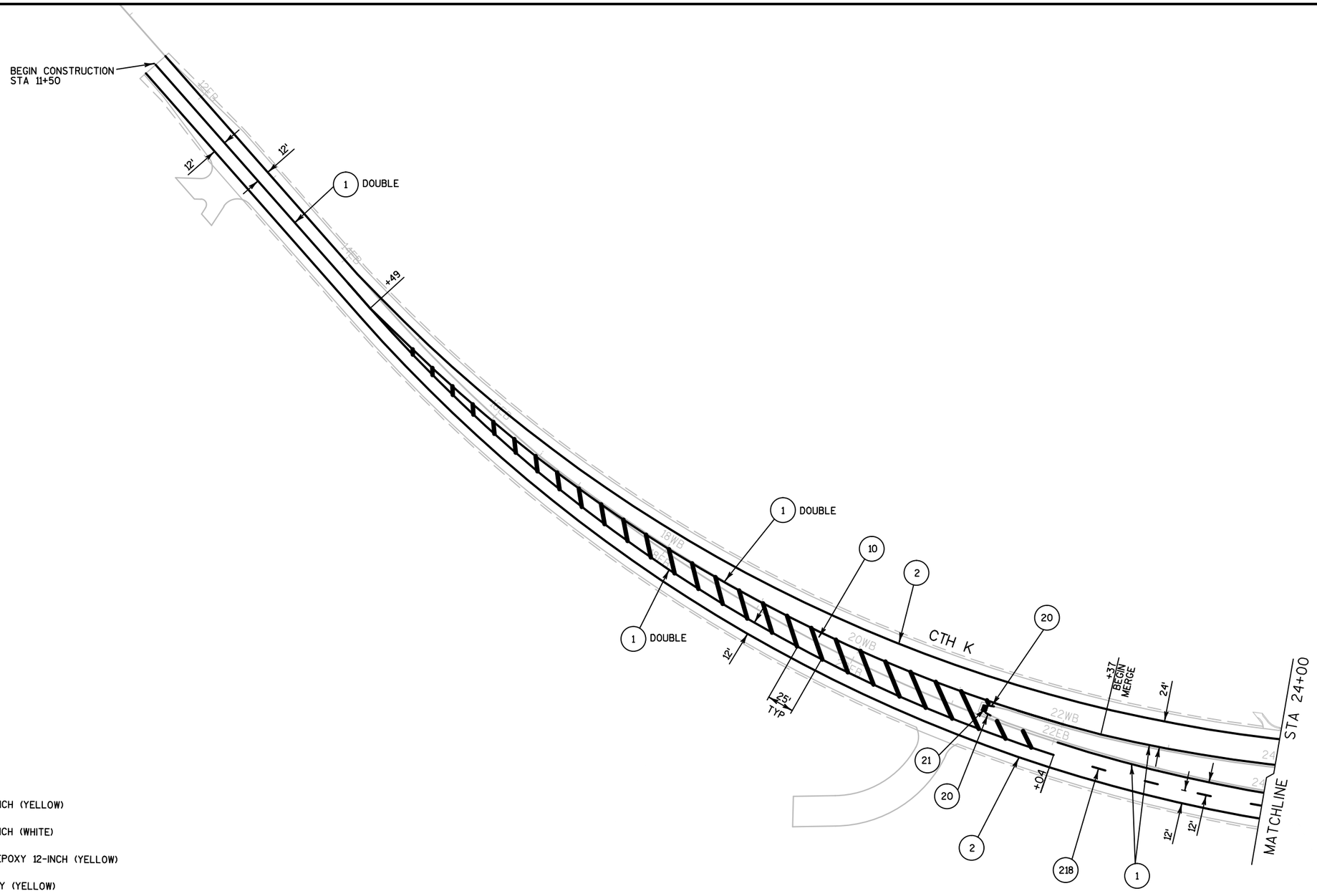
WISDOT/CADDS SHEET 42

2



SHEET 2 OF 2

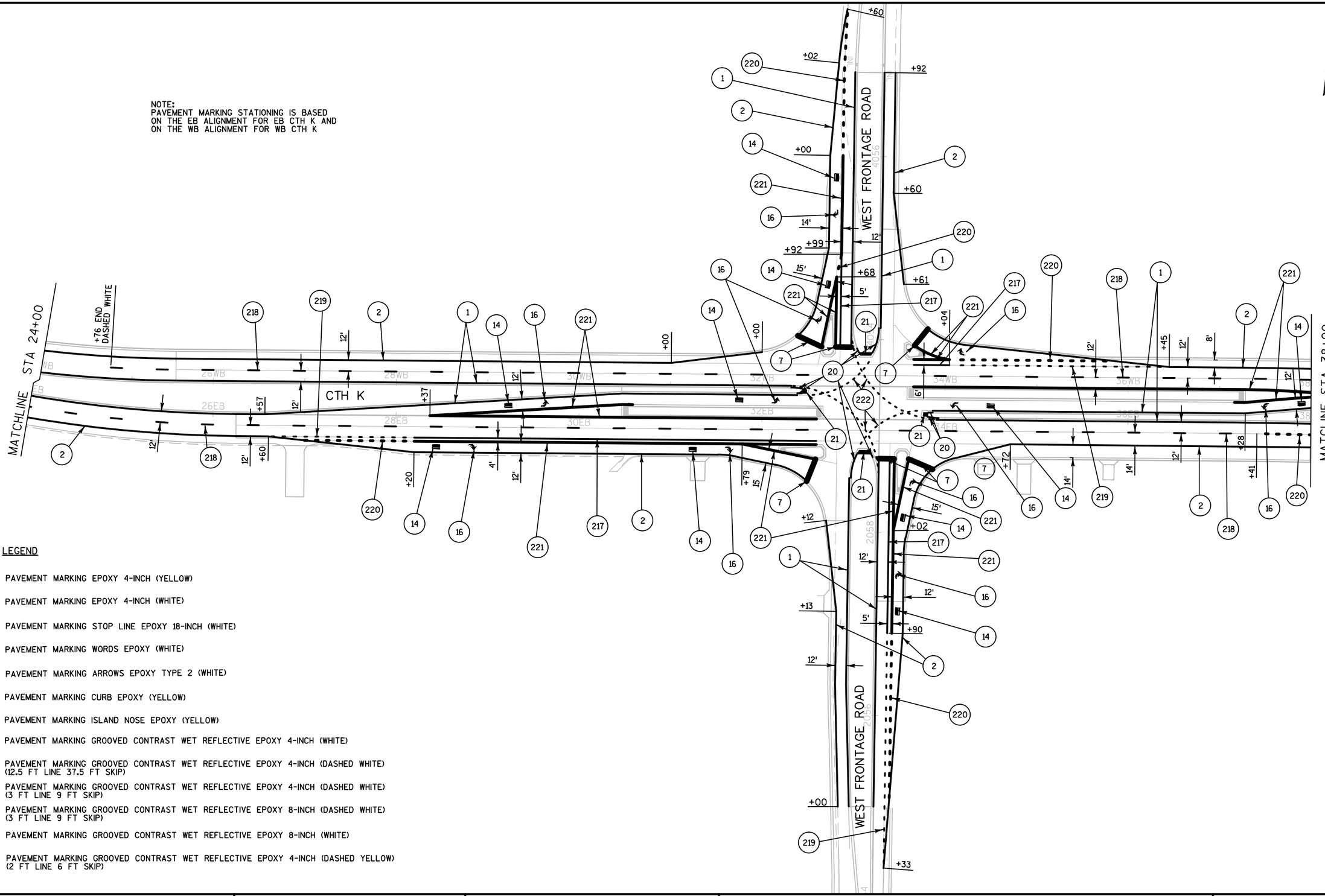
PROJECT NO: 1030-11-71	HWY: IH 94 / CTH K	COUNTY: RACINE	REMOVING PAVEMENT MARKING	SHEET 166	E



LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
10	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
20	PAVEMENT MARKING CURB EPOXY (YELLOW)
21	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
217	PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (WHITE)
218	PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

NOTE:
PAVEMENT MARKING STATIONING IS BASED
ON THE EB ALIGNMENT FOR EB CTH K AND
ON THE WB ALIGNMENT FOR WB CTH K



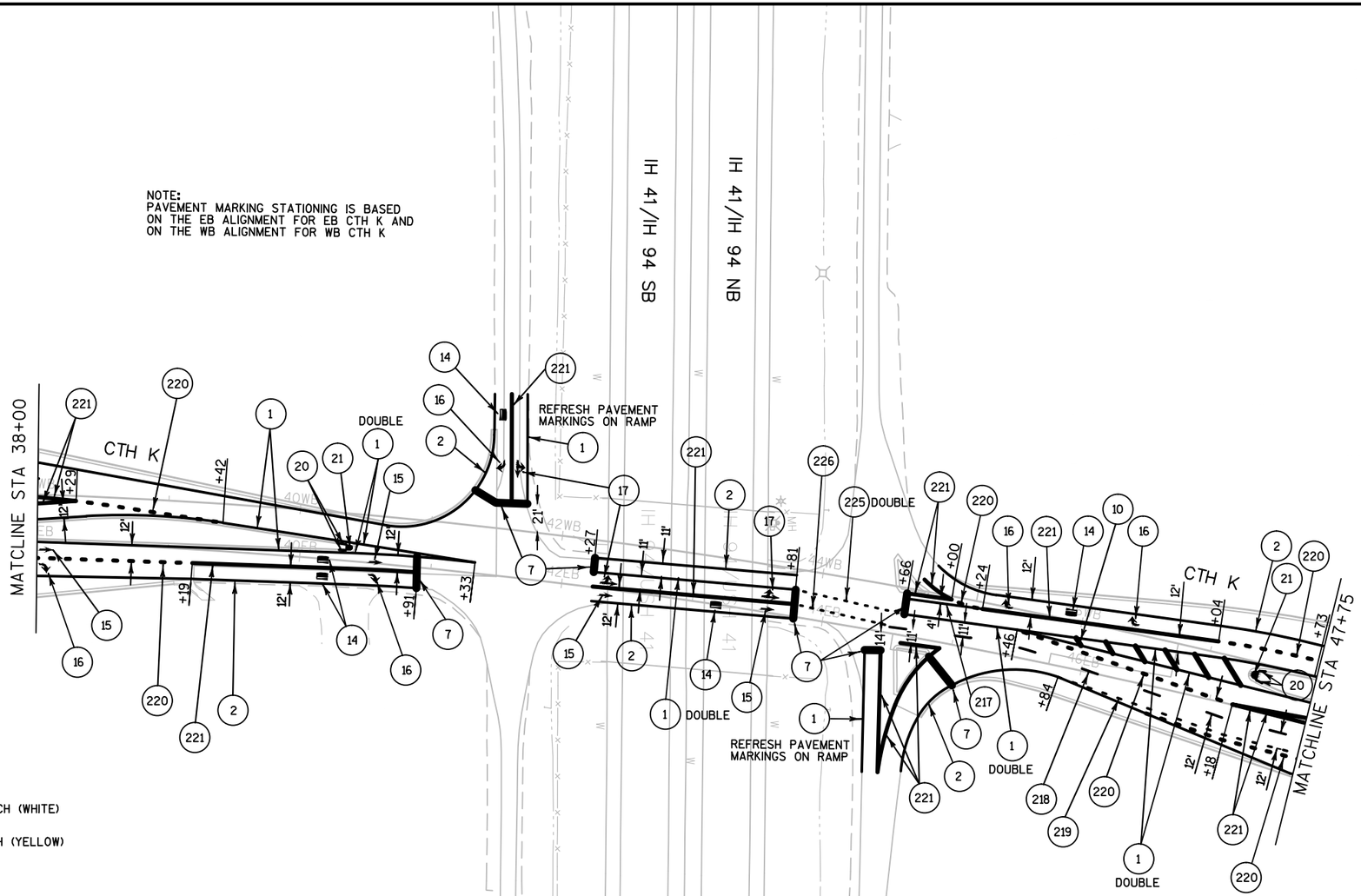
LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
7	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
14	PAVEMENT MARKING WORDS EPOXY (WHITE)
16	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
20	PAVEMENT MARKING CURB EPOXY (YELLOW)
21	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
217	PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (WHITE)
218	PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
219	PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)
220	PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 8-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)
221	PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 8-INCH (WHITE)
222	PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (DASHED YELLOW) (2 FT LINE 6 FT SKIP)

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PAVEMENT MARKING	SHEET 168	E

2

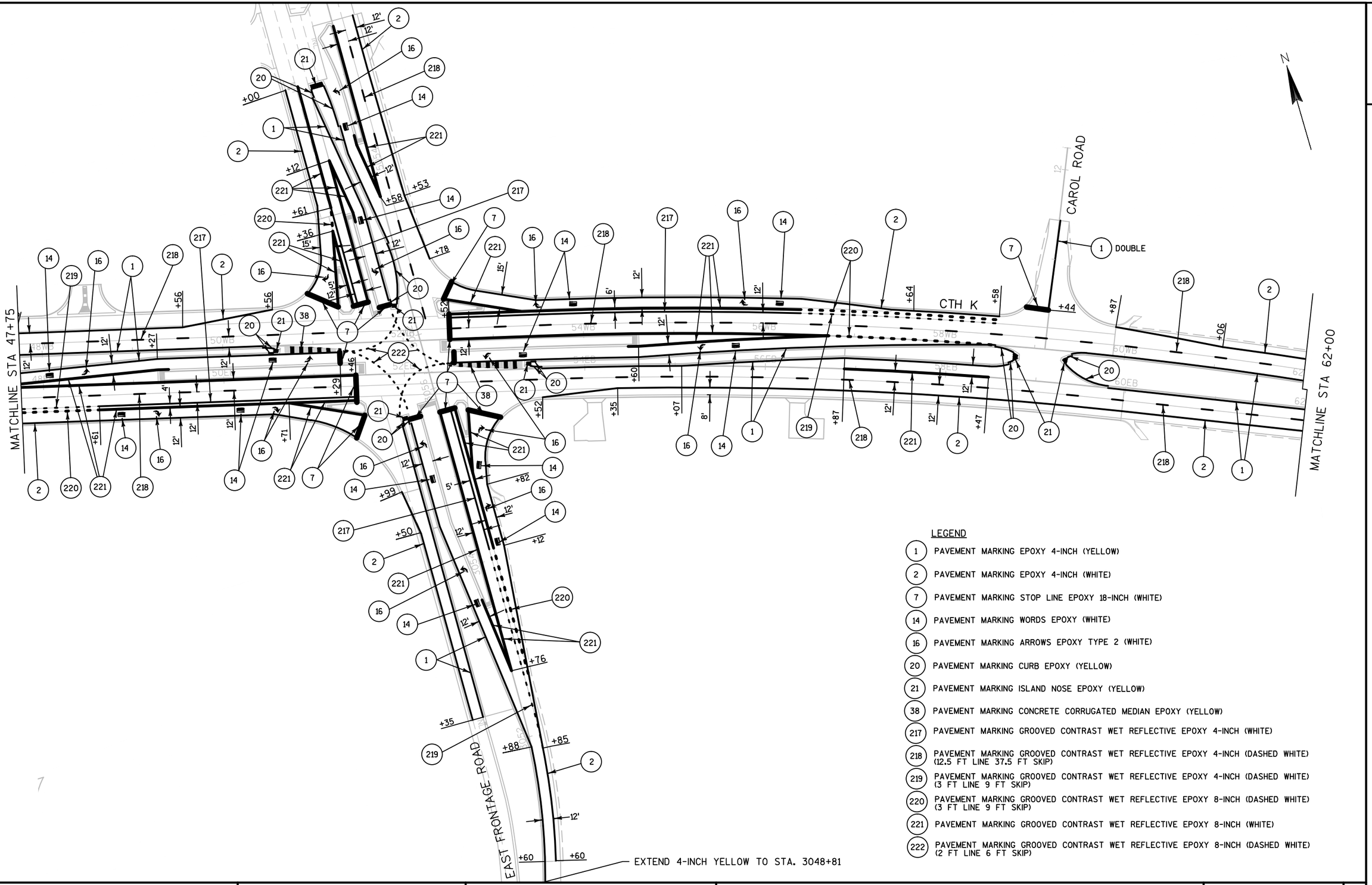
NOTE:
PAVEMENT MARKING STATIONING IS BASED ON THE EB ALIGNMENT FOR EB CTH K AND ON THE WB ALIGNMENT FOR WB CTH K



LEGEND

(1) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
(2) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
(7) PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
(10) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
(14) PAVEMENT MARKING WORDS EPOXY (WHITE)
(15) PAVEMENT MARKING ARROWS EPOXY TYPE 1 (WHITE)
(16) PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
(17) PAVEMENT MARKING ARROWS EPOXY TYPE 3 (WHITE)
(20) PAVEMENT MARKING CURB EPOXY (YELLOW)
(21) PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
(217) PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (WHITE)
(218) PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
(220) PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 8-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)
(221) PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 8-INCH (WHITE)
(225) PAVEMENT MARKING EPOXY 4-INCH (DOT PATTERN YELLOW) (2 FT LINE 6 FT SKIP)
(226) PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (DOT PATTERN WHITE) (2 FT LINE 6 FT SKIP)

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACIUNE	PAVEMENT MARKING	SHEET 169	E



LEGEND

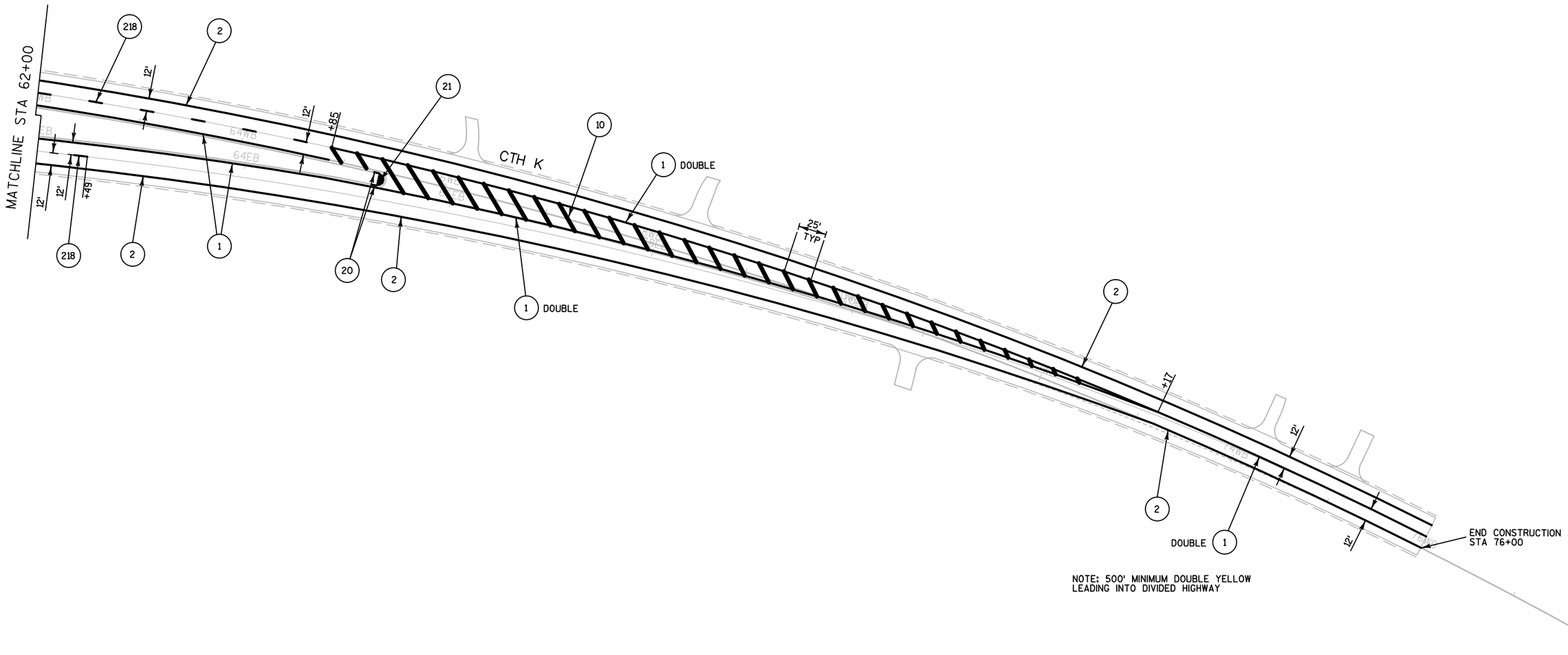
1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
7	PAVEMENT MARKING STOP LINE EPOXY 18-INCH (WHITE)
14	PAVEMENT MARKING WORDS EPOXY (WHITE)
16	PAVEMENT MARKING ARROWS EPOXY TYPE 2 (WHITE)
20	PAVEMENT MARKING CURB EPOXY (YELLOW)
21	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
38	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN EPOXY (YELLOW)
217	PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (WHITE)
218	PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
219	PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)
220	PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 8-INCH (DASHED WHITE) (3 FT LINE 9 FT SKIP)
221	PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 8-INCH (WHITE)
222	PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 8-INCH (DASHED WHITE) (2 FT LINE 6 FT SKIP)

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PAVEMENT MARKING	SHEET 170	E

2

LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
10	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
20	PAVEMENT MARKING CURB EPOXY (YELLOW)
21	PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)
217	PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (WHITE)
218	PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)



NOTE: 500' MINIMUM DOUBLE YELLOW LEADING INTO DIVIDED HIGHWAY

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PAVEMENT MARKING	SHEET 171	E

FIXED MESSAGE SIGNS (DETAILS SHEETS)

GENERAL NOTES:

1. AFTER SIGNS HAVE BEEN LOCATED IN THE FIELD, BUT BEFORE INSTALLATION, THE PROJECT ENGINEER SHALL VERIFY EACH SIGN LOCATION.

2. ALL SIGNS TO BE MOUNTED ON WOODEN POST SUPPORTS (4"x6") (FREEWAY) OR TUBULAR. STEEL POSTS OR 4X6 WOOD POSTS (NON FREEWAY). THE NUMBER OF POSTS REQUIRED FOR EACH LAYOUT IS SHOWN.

3. SIGNS ON THIS SHEET TO BE PAID UNDER THE ITEM "TRAFFIC CONTROL SIGNS FIXED MESSAGE."

4. SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE FLUORESCENT REFLECTIVE BACKGROUND PER SPEC 643 & 637.

5. ALL SIGNS SHALL HAVE CAPITAL LETTERS AND NUMERALS:
   12" CAPS SHALL BE SERIES "D"
   6" CAPS SHALL BE SERIES "C" – UNLESS OTHERWISE SHOWN

6. ALL SIGNS SHALL HAVE BORDER & RADIUS OF BORDERS AS FOLLOWS:

SIGN AREA	WIDTH OF BORDER
GREATER THAN 150 SQ FT	3"
60–150 SQ FT	2"
LESS THAN 60 SQ FT	1"

RADIUS SMALLEST OUTSIDE DIMENSION	CORNER RADIUS
> 8 FT	12"
≥ 6 FT	9"
≥ 4 FT	6"
LESS THAN 4 FT	3"

7. BEGIN XXX XX SIGNS SHALL BE SEPARATE PANELS, BUT SHALL BE CONSIDERED AS PART OF THE SIGN AND SHOULD BE REMOVED OR COVERED AFTER THEIR EFFECTIVE DATE. THE MONTH AND DAY SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.

8. SIGN BASE MATERIAL SHALL BE ACCORDING TO SECTION 643 & 637.

(XXX) = SIGN NUMBER

FOR PLAN SHEETS

LEGEND: FIXED MESSAGE SIGNS

- EXISTING GUIDE SIGN TO BE COVERED
- FIXED MESSAGE SIGN(S) ON WOOD POST SUPPORTS OR TUBULAR STEEL POSTS
- (XXX) FIXED MESSAGE SIGN NUMBER
- (A1) CONTRACTOR SHALL COVER AS DIRECTED BY THE ENGINEER ALL ROUTE MARKINGS PERTAINING TO THE PROJECT. INCIDENTAL TO WORK ZONE TRAFFIC CONTROL SIGNING.
- [CMS] CHANGEABLE MESSAGE SIGN

NOTES: FIXED MESSAGE SIGNS

1. CONTRACTOR SHOULD LOCATE FIXED MESSAGE SIGNS A MINIMUM OF 400' FROM ANY EXISTING TYPE "I" SIGN.

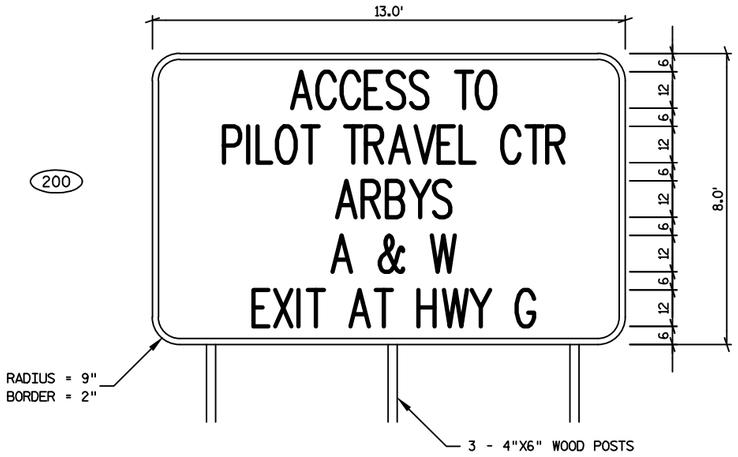
2. ALL FIXED MESSAGE SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE FLORESCENT REFLECTIVE BACKGROUND PER SPEC 643 & 637.

3. SEE FIXED MESSAGE SIGNS AND SPECIAL MESSAGE SIGNS LAYOUT SHEETS FOR MORE INFORMATION.

4. COVER DETOUR SIGNING WHEN NOT IN USE. INCIDENTAL TO WORK ZONE TRAFFIC CONTROL SIGNING.

2

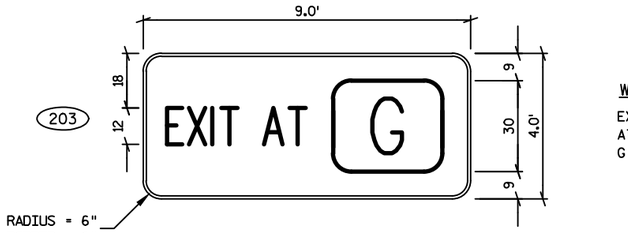
200



WORD LENGTHS

ACCESS = 59⅞
TO = 17⅞
PILOT = 41⅝
TRAVEL = 59⅝
CTR = 27⅝
ARBYS = 52⅛
A = 10
& = 10
W = 10⅛
EXIT = 30⅝
AT = 19⅜
HWY = 32⅝
G = 8⅛

203

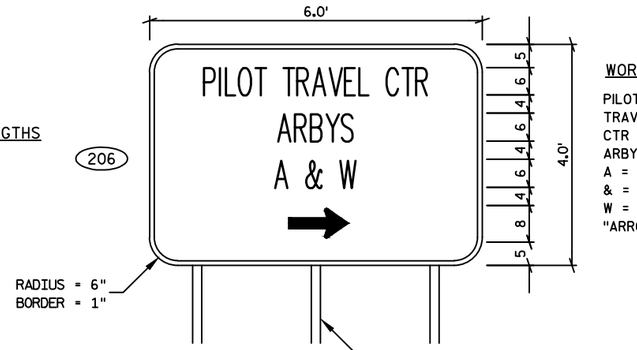


PLACE UNDER GAS/FOOD BLUE SIGN ONTO EXISTING STEEL POSTS

WORD LENGTHS

EXIT = 30⅝
AT = 19⅜
G = 30

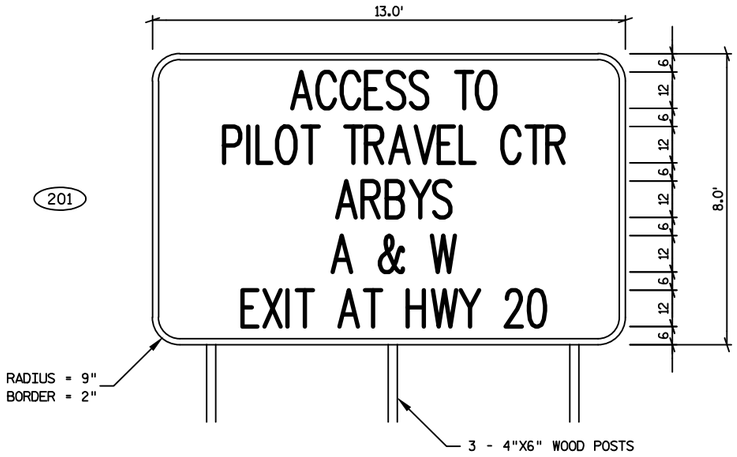
206



WORD LENGTHS

PILOT = 17⅝
TRAVEL = 24⅝
CTR = 11⅛
ARBYS = 21⅜
A = 3⅝
& = 5
W = 4⅛
"ARROW" = 8⅛

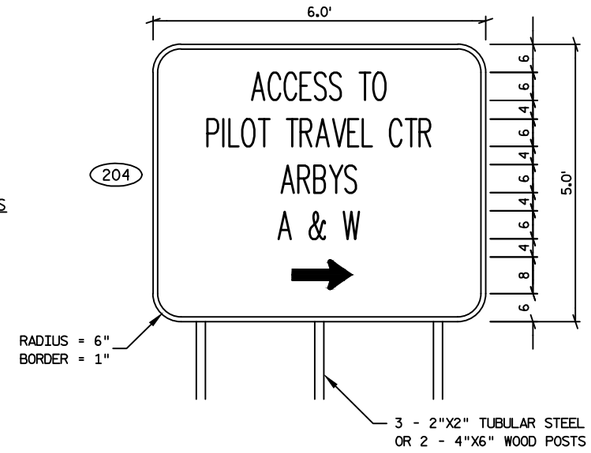
201



WORD LENGTHS

ACCESS = 59⅞
TO = 17⅞
PILOT = 41⅝
TRAVEL = 59⅝
CTR = 27⅝
ARBYS = 52⅛
A = 10
& = 10
W = 10⅛
EXIT = 30⅝
AT = 19⅜
HWY = 32⅝
20 = 18⅛

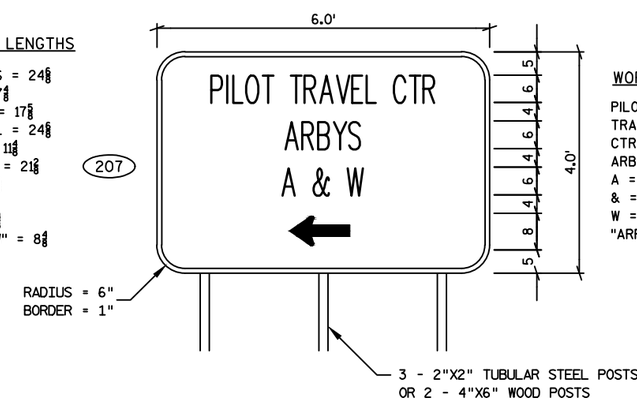
204



WORD LENGTHS

ACCESS = 24⅝
TO = 7⅛
PILOT = 17⅝
TRAVEL = 24⅝
CTR = 11⅛
ARBYS = 21⅜
A = 3⅝
& = 5
W = 4⅛
"ARROW" = 8⅛

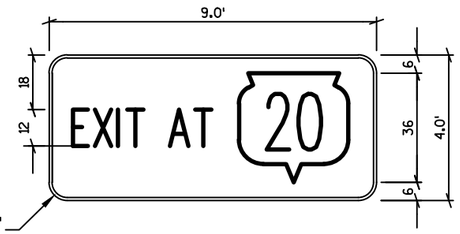
207



WORD LENGTHS

PILOT = 17⅝
TRAVEL = 24⅝
CTR = 11⅛
ARBYS = 21⅜
A = 3⅝
& = 5
W = 4⅛
"ARROW" = 8⅛

202

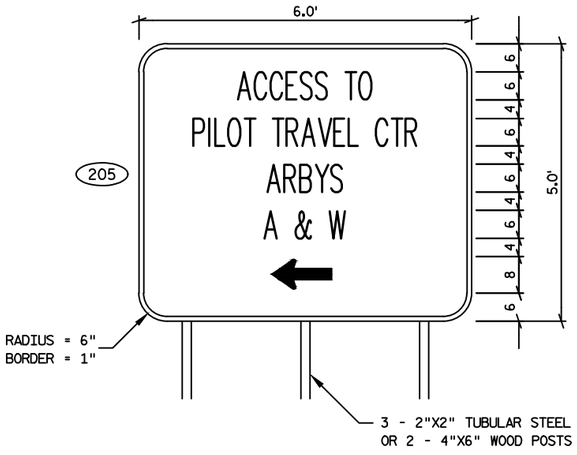


PLACE UNDER GAS/FOOD BLUE SIGN ONTO EXISTING STEEL POSTS

WORD LENGTHS

EXIT = 30⅝
AT = 19⅜
20 = 36

205



WORD LENGTHS

ACCESS = 24⅝
TO = 7⅛
PILOT = 17⅝
TRAVEL = 24⅝
CTR = 11⅛
ARBYS = 21⅜
A = 3⅝
& = 5
W = 4⅛
"ARROW" = 8⅛

NOTES

1. POSTS SHALL MEET THE BREAKAWAY REQUIREMENTS OF SECTION 643.2.9.1 OF THE STANDARD SPECIFICATIONS AND SIGN PLATE A4-11.

2. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO MANUFACTURING.

3. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

2

LEGEND

	TYPE III BARRICADE
	TYPE III BARRICADE WTH ATTACHED SIGN
	TRAFFIC CONTROL DRUM
	TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
	FLASHING ARROW BOARD
	SIGN ON PERMANENT SUPPORT
	SIGN ON TEMPORARY SUPPORT
	DELINEATOR FLEXIBLE/TUBULAR MARKER
Ⓐ	TYPE A WARNING LIGHT (FLASHING)
Ⓑ	TYPE B WARNING LIGHT (HIGH INTENSITY FLASHING)
Ⓒ	TYPE C WARNING LIGHT (STEADY BURN)
	CONCRETE BARRIER TEMPORARY PRECAST
	WORK AREA
	TEMPORARY PAVEMENT
	TEMPORARY RAISED PAVEMENT MARKER (ONE WAY REFLECTOR)
	TEMPORARY RAISED PAVEMENT MARKER (TWO WAY REFLECTOR)
	FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
	DIRECTION OF TRAFFIC
MB	PORTABLE CHANGEABLE MESSAGE BOARD

(10)	PAVEMENT MARKING PAINT 4-INCH (YELLOW)
(11)	PAVEMENT MARKING PAINT 4-INCH (WHITE)
(20)	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
(21)	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

GENERAL NOTES FOR CONSTRUCTION STAGING AND TRAFFIC CONTROL

1) ALL TRAFFIC CONTROL SIGNS SHALL BE 36" X 36" UNLESS OTHERWISE NOTED IN THE PLANS.

2) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.

3) TRAFFIC CONTROL DRUMS IN TAPERS SHALL BE EQUIPPED WITH TRAFFIC CONTROL WARNING LIGHTS, TYPE "C", ONE WAY LIGHTS IN TAPERS ONLY, UNLESS OTHERWISE SHOWN, DRUMS SHALL BE SPACED AT 50 FT OC IN TAPERS AND 100 FT OC ON TANGENTS OR AS OTHERWISE SHOWN.

4) SIGN LOCATIONS ARE APPROXIMATE. THE ACTUAL LOCATION AND SPACING MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO MEET FIELD CONDITIONS.

5) ALL SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND/OR AS DIRECTED BY THE ENGINEER. NO "WORKING" LIGHTS SHALL BE VISIBLE ON A COVERED OR LAID DOWN SIGN.

6) ALL EXISTING CONFLICTING PAVEMENT MARKING SHALL BE REMOVED.

7) A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK/CLOSED" AREAS IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER.

8) CONTRACTOR SHALL INSTALL PERMANENT SIGNS AND PERMANENT PAVEMENT MARKING WHEN APPROPRIATE DURING CONSTRUCTION STAGING AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

9) ADEQUATE TURNING PROVISION SHALL BE MAINTAINED FOR ALL VEHICLES, INCLUDING TRUCKS AS DIRECTED BY THE ENGINEER.

2

STAGE 1A/1B

CONSTRUCTION
- CONSTRUCT CTH K - WEST END

TRAFFIC
CTH K - CLOSED TO THROUGH TRAFFIC. SEE DETOUR PLAN FOR PROPOSED DETOUR.
WEST FRONTAGE ROAD - OPEN TO THROUGH TRAFFIC
EAST FRONTAGE ROAD - OPEN TO TRAFFIC

N

NOTES

TRAFFIC FLOW

WORK ZONE STAGE 1A

WORK ZONE STAGE 1B

STAGE 1B CONSTRUCTION

STAGE 1A CONSTRUCTION

FUHRMAN DRIVE

SB EXIT RAMP

NB ENTRANCE RAMP

SB ENTRANCE RAMP

NB EXIT RAMP

IH 94 SB

IH 94 NB

MICHEL COURT

WEST FRONTAGE ROAD

EAST FRONTAGE ROAD

ADAMS ROAD

CAROL ROAD

CTH K

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL OVERVIEW - STAGE 1	SHEET 175	E

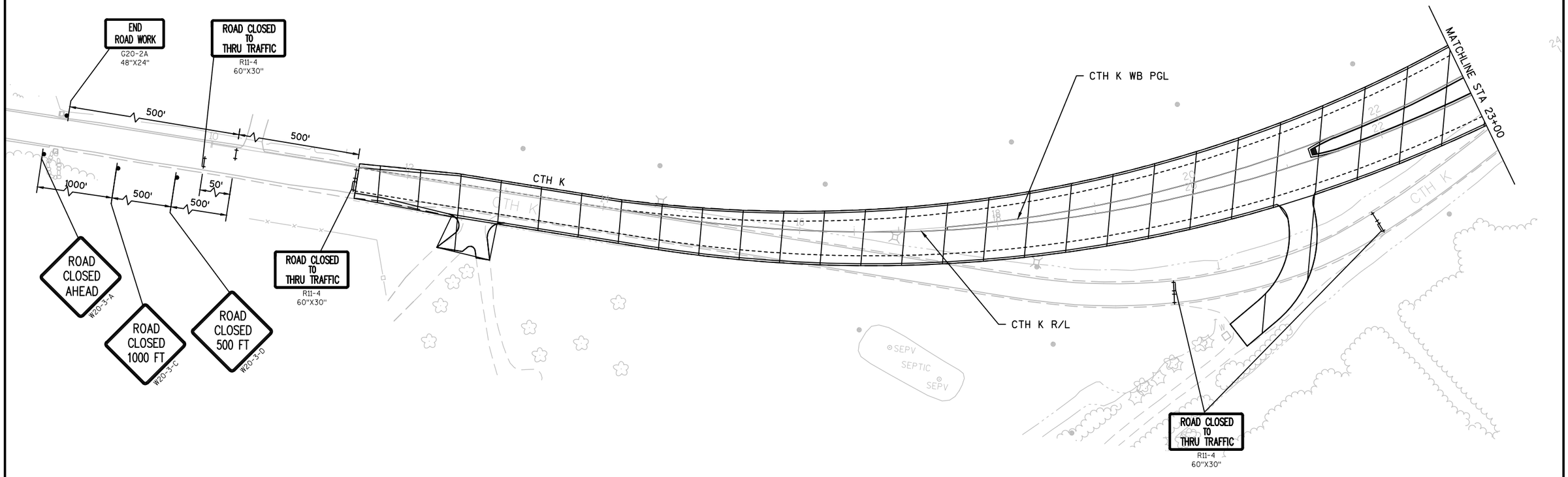
2

NOTE:
SEE DETOUR SIGNING PLAN AND SDD 'BARRICADES AND SIGNS FOR MAINLINE CLOSURES' FOR ADDITIONAL TRAFFIC CONTROL QUANTITIES AND LAYOUT INFORMATION.

CONTRACTOR TO MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.

SEE DETOUR PLAN FOR PORTABLE CHANGEABLE MESSAGE SIGNS LOCATIONS AND MESSAGES.

SEE SDD 'BARRICADES AND SIGNS FOR MAINLINE CLOSURES' FOR ADDITIONAL LAYOUT INFORMATION.



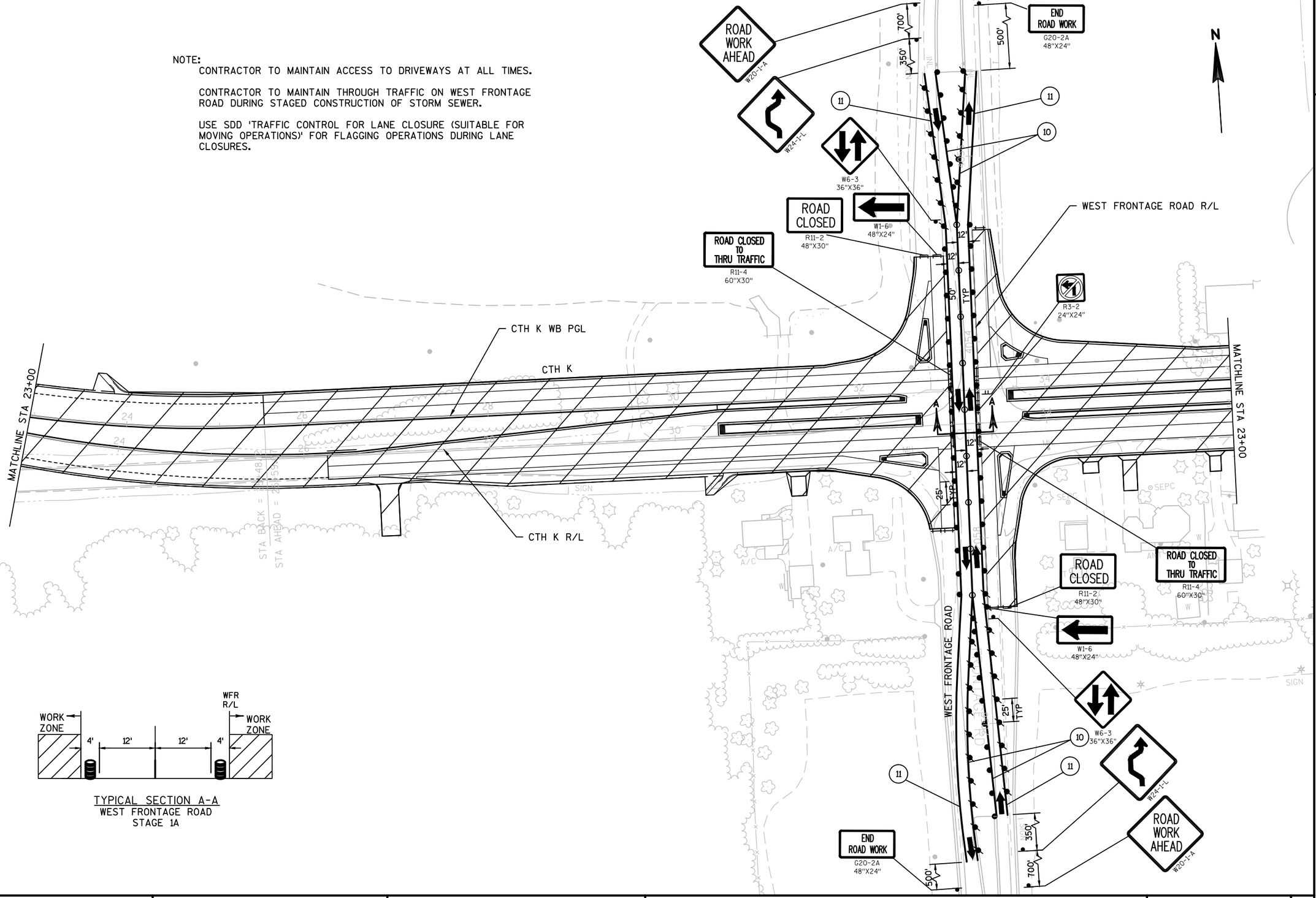
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1A	SHEET 176	E

NOTE:

CONTRACTOR TO MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.

CONTRACTOR TO MAINTAIN THROUGH TRAFFIC ON WEST FRONTAGE ROAD DURING STAGED CONSTRUCTION OF STORM SEWER.

USE SDD 'TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)' FOR FLAGGING OPERATIONS DURING LANE CLOSURES.



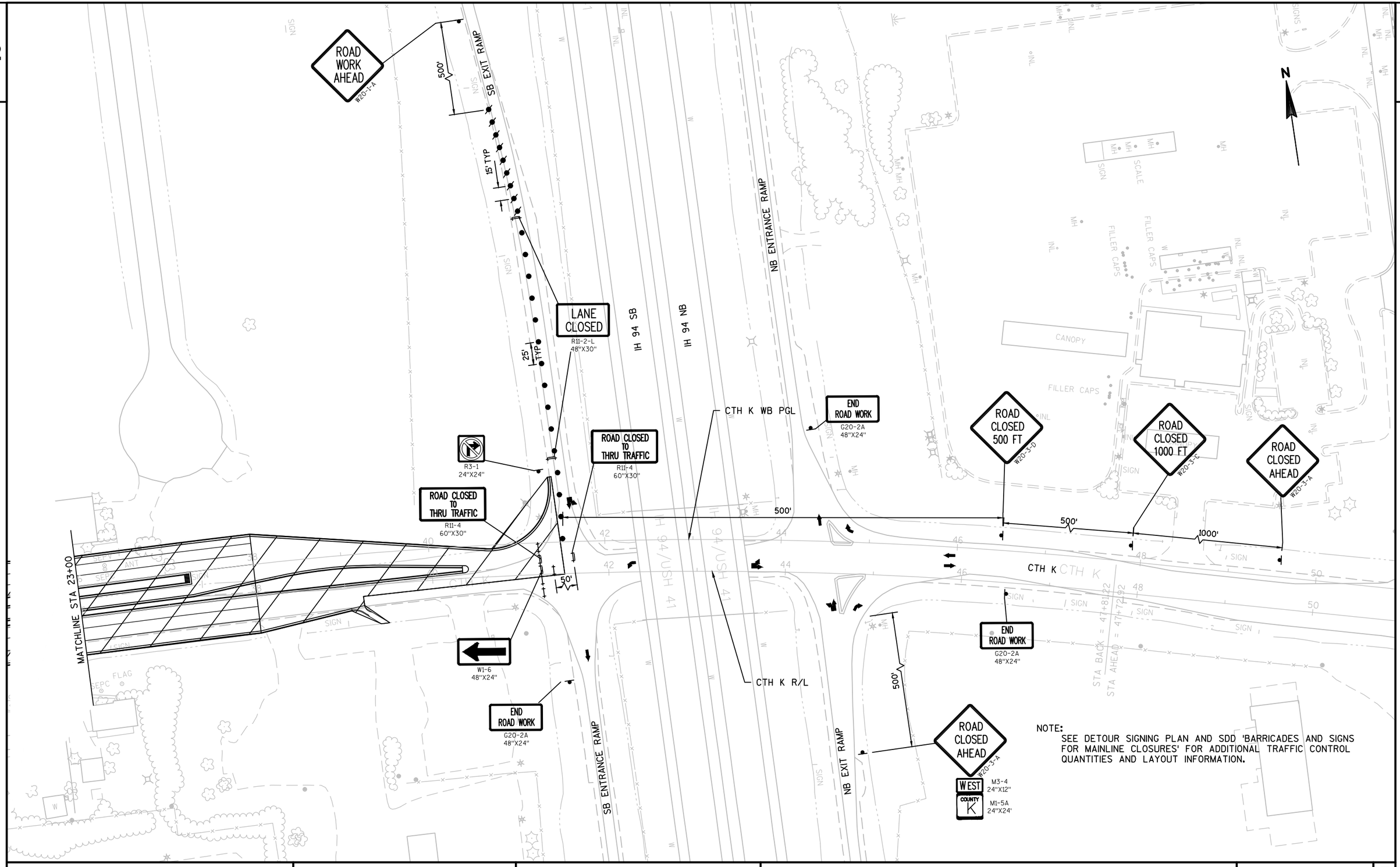
TYPICAL SECTION A-A
WEST FRONTAGE ROAD
STAGE 1A

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1A	SHEET 177	E

FILE NAME : N:\PDS\C3D\10301100\DESIGN\EDGELINES\STAGING\S1A_REVALT.DWG
LAYOUT NAME - 025002

PLOT DATE : 3/20/2017 9:00 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



NOTE:
SEE DETOUR SIGNING PLAN AND SDD 'BARRICADES AND SIGNS FOR MAINLINE CLOSURES' FOR ADDITIONAL TRAFFIC CONTROL QUANTITIES AND LAYOUT INFORMATION.

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1A	SHEET	E

FILE NAME : N:\PDS\C3D\10301100\DESIGN\EDGELINES\STAGING\S1A_REVALT.DWG
LAYOUT NAME - 025003
PLOT DATE : 3/20/2017 9:00 AM
PLOT BY : JOHANSEN, AMANDA A PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

NOTE:
- TRAFFIC CONTROL DEVICES ALONG CTH K OUTSIDE OF MATCHLINES ARE THE SAME AS STAGE 1A.
- CONSTRUCTION ACTIVITY ALONG CTH K FROM STAGE 1A MAY CONTINUE OUTSIDE OF THE AREA NEEDED FOR TRAVEL LANES FOR STAGE 1B.

MATCHLINE STA 31+00
TRAFFIC CONTROL STAGE 1A

END ROAD WORK
G20-2A
48"X24"

500'

MATCH EXISTING

ROAD CLOSED
R11-2
48"X30"

W1-6
48"X24"

R3-2
24"X24"

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

R3-1
24"X24"

LANE CLOSED
R11-2-L
48"X30"

25' TYP

W1-4R

ROAD WORK AHEAD
W20-1-A

350'

700'

MATCH EXISTING

WEST FRONTAGE ROAD

500'

MATCH EXISTING

END ROAD WORK
G20-2A
48"X24"

700'

350'

ROAD WORK AHEAD
W20-1-A

W1-4R

MATCH EXISTING

LANE CLOSED
R11-2-L
48"X30"

R3-1
24"X24"

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

CTH K R/L

CTH K

CTH K WB PGL

W1-6
48"X24"

ROAD CLOSED
R11-2
48"X30"

WEST FRONTAGE ROAD R/L

MATCHLINE STA 35+00
TRAFFIC CONTROL STAGE 1A

FUHRMAN DRIVE

WORK ZONE
4' MIN
12'
5'
WORK ZONE VARIES
32' TYP
WFR R/L
5'
12'
4' MIN
WORK ZONE

TYPICAL SECTION B-B
WEST FRONTAGE ROAD
STAGE 1B

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 1B	SHEET 179	E

2

STAGE 2A

CONSTRUCTION
- CONSTRUCT TEMPORARY PAVEMENT ON EAST FRONTAGE ROAD

TRAFFIC
CTH K - OPEN TO TRAFFIC
WEST FRONTAGE ROAD - OPEN TO TRAFFIC
EAST FRONTAGE ROAD - OPEN TO TRAFFIC

STAGE 2B/2C/2D

CONSTRUCTION
- CONSTRUCT CTH K - EAST END

TRAFFIC
CTH K - CLOSED TO TRAFFIC. SEE DETOUR PLAN FOR PROPOSED DETOUR.
WEST FRONTAGE ROAD - OPEN TO TRAFFIC
EAST FRONTAGE ROAD - OPEN TO THROUGH TRAFFIC

N

FUHRMAN DRIVE
SB EXIT RAMP
NB ENTRANCE RAMP
EAST FRONTAGE ROAD
ADAMS ROAD
CTH K
CAROL ROAD
WEST FRONTAGE ROAD
SB ENTRANCE RAMP
IH 94 SB
IH 94 NB
NB EXIT RAMP
MICHEL COURT
SUNFLOWER DRIVE

STAGE 2A CONSTRUCTION
STAGE 2D CONSTRUCTION
STAGE 2C CONSTRUCTION
STAGE 2B CONSTRUCTION
STAGE 2B CONSTRUCTION
STAGE 2A CONSTRUCTION

NOTES
TRAFFIC FLOW
WORK ZONE STAGE 2A
WORK ZONE STAGE 2B
WORK ZONE STAGE 2C
WORK ZONE STAGE 2D

PROJECT NO:1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL OVERVIEW - STAGE 2	SHEET 180	E

2

END ROAD WORK
G20-2A
48"X24"

500'

700'

350'

W1-4R

ROAD WORK AHEAD
W20-1-A

TEMPORARY COVER PLATE

REMOVE CURB AND GUTTER

5" ASPHALTIC SURFACE TEMPORARY

25' TYP

MATCH EXISTING

11'

21

20

EAST FRONTAGE ROAD

EAST FRONTAGE ROAD R/L

MATCH EXISTING

ROAD WORK AHEAD
W20-1-A

500'

CTH K

CTH K R/L

CTH K WB PGL

END ROAD WORK
G20-2A
48"X24"

LANE CLOSED
R11-2-L
48"X30"

W1-4R

ROAD WORK AHEAD
W20-1-A

350'

700'

25' TYP

20

INSTALL PRIOR TO STAGE 2A
(SEE DETAIL A)

W1-6
48"X24"

500'

LANE CLOSED
R11-2-L
48"X30"

END ROAD WORK
G20-2A
48"X24"

ADAMS ROAD

R3-2
24"X24"

REMOVE ISLAND
5" ASPHALTIC SURFACE TEMPORARY
2-TEMPORARY COVER PLATES

500'

CTH K R/L

CTH K EB PGL

ROAD WORK AHEAD
W20-1-A

END ROAD WORK
G20-2A
48"X24"

500'

CTH K

DETAIL A

END ROAD WORK
G20-2A
48"X24"

LANE CLOSED
R11-2-L
48"X30"

5" ASPHALTIC SURFACE TEMPORARY

500'

500'

ROAD WORK AHEAD
W20-1-A

EAST FRONTAGE ROAD

500'

500'

ROAD WORK AHEAD
W20-1-A

LANE CLOSED
R11-2-L
48"X30"

END ROAD WORK
G20-2A
48"X24"

ADAMS R

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2A	SHEET 181	E

FILE NAME : N:\PDS\C3D\10301100\DESIGN\EDGELINES\STAGING\S2A_REV.DWG
LAYOUT NAME - 025201_TC

PLOT DATE : 3/20/2017 2:44 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

NOTE:

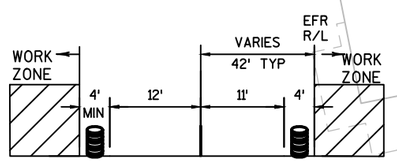
SEE DETOUR SIGNING PLAN AND SDD 'BARRICADES AND SIGNS FOR MAINLINE CLOSURES' FOR ADDITIONAL TRAFFIC CONTROL QUANTITIES AND LAYOUT INFORMATION.

CONTRACTOR TO MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.

CONTRACTOR TO MAINTAIN THROUGH TRAFFIC ON EAST FRONTAGE ROAD DURING STAGED CONSTRUCTION OF STORM SEWER.

USE SDD 'TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)' FOR FLAGGING OPERATIONS DURING LANE CLOSURES.

ROAD CLOSED AHEAD W20-3-A
EAST
COUNTY K
M3-2 24"X12"
M1-5A 24"X24"
500'
IH 94
END ROAD WORK G20-2A 48"X24"
500'
IH 94/USH 41
500'
1000'
500'
ROAD CLOSED AHEAD W20-3-A
ROAD CLOSED 1000 FT W20-3-C
ROAD CLOSED 500 FT W20-3-D
END ROAD WORK G20-2A 48"X24"
ROAD CLOSED R11-2 48"X30"
CTH K
LANE CLOSED R11-2-L 48"X30"
R3-1 24"X24"
NB EXIT RAMP
500'
ROAD WORK AHEAD W20-1-A
ROAD CLOSED R11-2 48"X30"
CANOPY
FILLER CAPS
CANOPY
CTH K WB PGL
CTH K R/L
STA BACK 47+81.22
STA AHEAD 48+00
ROAD WORK AHEAD W20-1-A
500'
END ROAD WORK G20-2A 48"X24"
500'
11'
LANE CLOSED R11-2-L 48"X30"
20
21
W6-3 36"X36"
LEFT TURN LANE R3-56L 24"X30"
12'
EAST FRONTAGE ROAD R/L
25' TYP
EAST FRONTAGE ROAD
30' TYP
R3-2 24"X24"
CTH K R/L
MATCHLINE STA 55+50
CTH K EB PGL
ROAD CLOSED TO THRU TRAFFIC R11-4 60"X30"
20
21
12'
11'
5" ASPHALTIC SURFACE TEMPORARY
MATCHLINE STA 3053+00



TYPICAL SECTION B-B
EAST FRONTAGE ROAD
STAGE 2B

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2B	SHEET 182	E

2

ADAMS ROAD

ADAMS RD

CAROL ROAD

W1-6
48"X24"

ROAD CLOSED
TO
THRU TRAFFIC
R11-4
60"X30"

ROAD CLOSED
TO
THRU TRAFFIC
R11-4
60"X30"

CAROL ROAD R/L

CTH K R/L

CTH K

CTH K EB PGL

MATCHLINE STA 55+50

MATCHLINE STA 70+00

NOTE:

SEE DETOUR SIGNING PLAN AND SDD 'BARRICADES AND SIGNS FOR MAINLINE CLOSURES' AND SDD 'BARRICADES AND SIGNS FOR SIDE ROAD CLOSURES' FOR ADDITIONAL TRAFFIC CONTROL QUANTITIES AND LAYOUT INFORMATION.

CONTRACTOR TO MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.

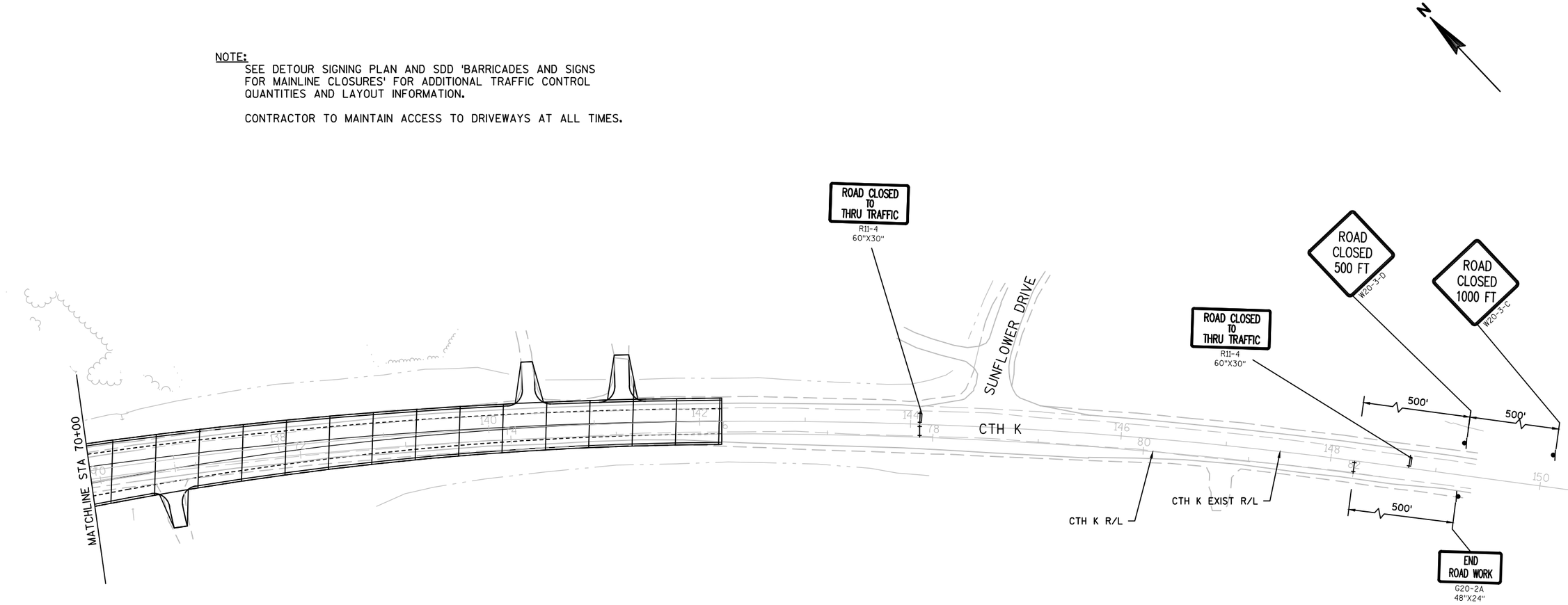
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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2B	SHEET 183	E

2

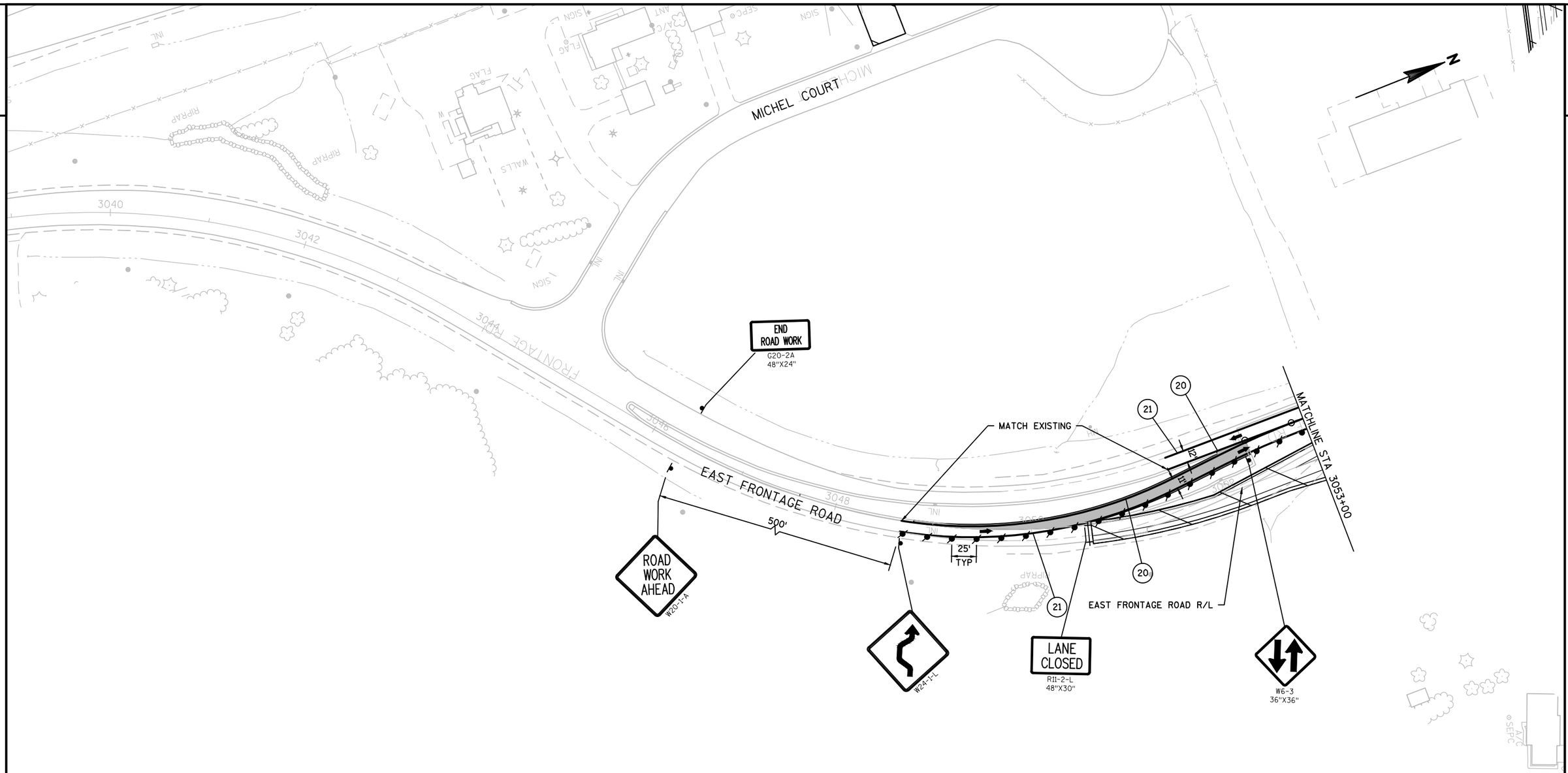
NOTE:
SEE DETOUR SIGNING PLAN AND SDD 'BARRICADES AND SIGNS FOR MAINLINE CLOSURES' FOR ADDITIONAL TRAFFIC CONTROL QUANTITIES AND LAYOUT INFORMATION.

CONTRACTOR TO MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES.



PROJECT NO:1030-11-71	HWY:IH 94/CTH K	COUNTY:RACINE	TRAFFIC CONTROL - STAGE 2B	SHEET 184	E

2



PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2B	SHEET 185	E

FILE NAME : N:\PDS\C3D\10301100\DESIGN\EDGELINES\STAGING\S2B_REV.DWG
LAYOUT NAME - 025214_TC

PLOT DATE : 11/30/2016 9:35 AM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:100 FT

NOTE:
- TRAFFIC CONTROL DEVICES ALONG CTH K OUTSIDE OF MATCHLINES ARE THE SAME AS STAGE 2B.
- CONSTRUCTION ACTIVITY ALONG CTH K FROM STAGE 2B MAY CONTINUE OUTSIDE OF THE AREA NEEDED FOR TRAVEL LANES FOR STAGE 2C.

END ROAD WORK
G20-2A
48"X24"

500'

MATCHLINE STA 50+00
TRAFFIC CONTROL STAGE 2B

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

MATCH EXISTING

CTH K R/L

CTH K WB PGL

LANE CLOSED
R11-2-L
48"X30"

W24-7-L

700'

ROAD WORK AHEAD
W20-1-A

700'

350'

EAST FRONTAGE ROAD

ROAD WORK AHEAD
W20-1-A

W1-4R

LANE CLOSED
R11-2-L
48"X30"

LANE CLOSED
R11-2-L
48"X30"

R3-1
24"X24"

R3-2
24"X24"

CTH K

CTH K EB PGL

CTH K R/L

25'
TYP

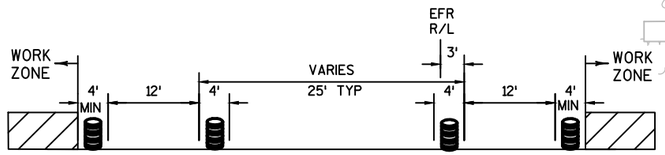
LEFT TURN LANE
R3-56L
24"X30"

EAST FRONTAGE ROAD R/L

MATCHLINE STA 54+00
TRAFFIC CONTROL STAGE 2B

MATCH EXISTING
500'

END ROAD WORK
G20-2A
48"X24"



TYPICAL SECTION C-C
EAST FRONTAGE ROAD
STAGE 2C

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2C	SHEET 186 E

FILE NAME : N:\PDS\C3D\10301100\DESIGN\EDGELINES\STAGING\S2C_REV.DWG
LAYOUT NAME - 025221_TC
PLOT DATE : 3/20/2017 9:37 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

NOTE:
- TRAFFIC CONTROL DEVICES ALONG CTH K OUTSIDE OF MATCHLINES ARE THE SAME AS STAGE 2B.
- CONSTRUCTION ACTIVITY ALONG CTH K FROM STAGE 2B MAY CONTINUE OUTSIDE OF THE AREA NEEDED FOR TRAVEL LANES FOR STAGE 2D.

END ROAD WORK
G20-2A
48"X24"

500'

700'

350'

ROAD WORK AHEAD
W20-1-A

W1-4R

MATCH EXISTING

REMOVE TEMPORARY COVER PLATE AND REPLACE INLET GRATE

REMOVE TEMPORARY PAVEMENT

EAST FRONTAGE ROAD

ROAD CLOSED TO THRU TRAFFIC
R11-4
60"X30"

LANE CLOSED
R11-2-L
48"X30"

R3-1
24"X24"

R3-2
24"X24"

MATCHLINE STA 50+00
TRAFFIC CONTROL STAGE 2B

CTH K R/L

CTH K WB PGL

CTH K EB PGL

CTH K

MATCHLINE STA 54+00
TRAFFIC CONTROL STAGE 2B

25'
TYP

LANE CLOSED
R11-2-L
48"X30"

REMOVE TEMPORARY PAVEMENT AND RESTORE CONCRETE MEDIAN SLOPED NOSE (REFER TO STAGE 2A, DETAIL A FOR TRAFFIC CONTROL.

ROAD WORK AHEAD
W20-1-A

500'

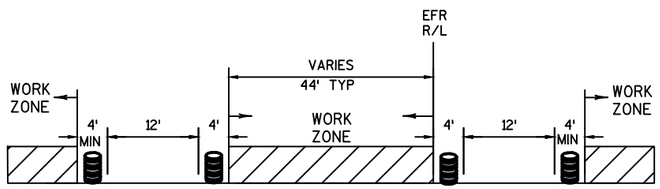
500'

END ROAD WORK
G20-2A
48"X24"

REMOVE TEMPORARY COVER PLATES AND REPLACE INLET GRATES

EAST FRONTAGE ROAD R/L

MATCH EXISTING



TYPICAL SECTION D-D
EAST FRONTAGE ROAD
STAGE 2D

PROJECT NO:1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	TRAFFIC CONTROL - STAGE 2D	SHEET 187 E

FILE NAME : N:\PDS\C3D\10301100\DESIGN\EDGELINES\STAGING\S2D_REV.DWG
LAYOUT NAME - 025231_TC

PLOT DATE : 3/21/2017 1:34 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:100 FT

LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- WORK ZONE
- DETOUR ROUTE
- TRAFFIC FLOW ARROW
- EXISTING SIGN
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN

GENERAL NOTES

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.

ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

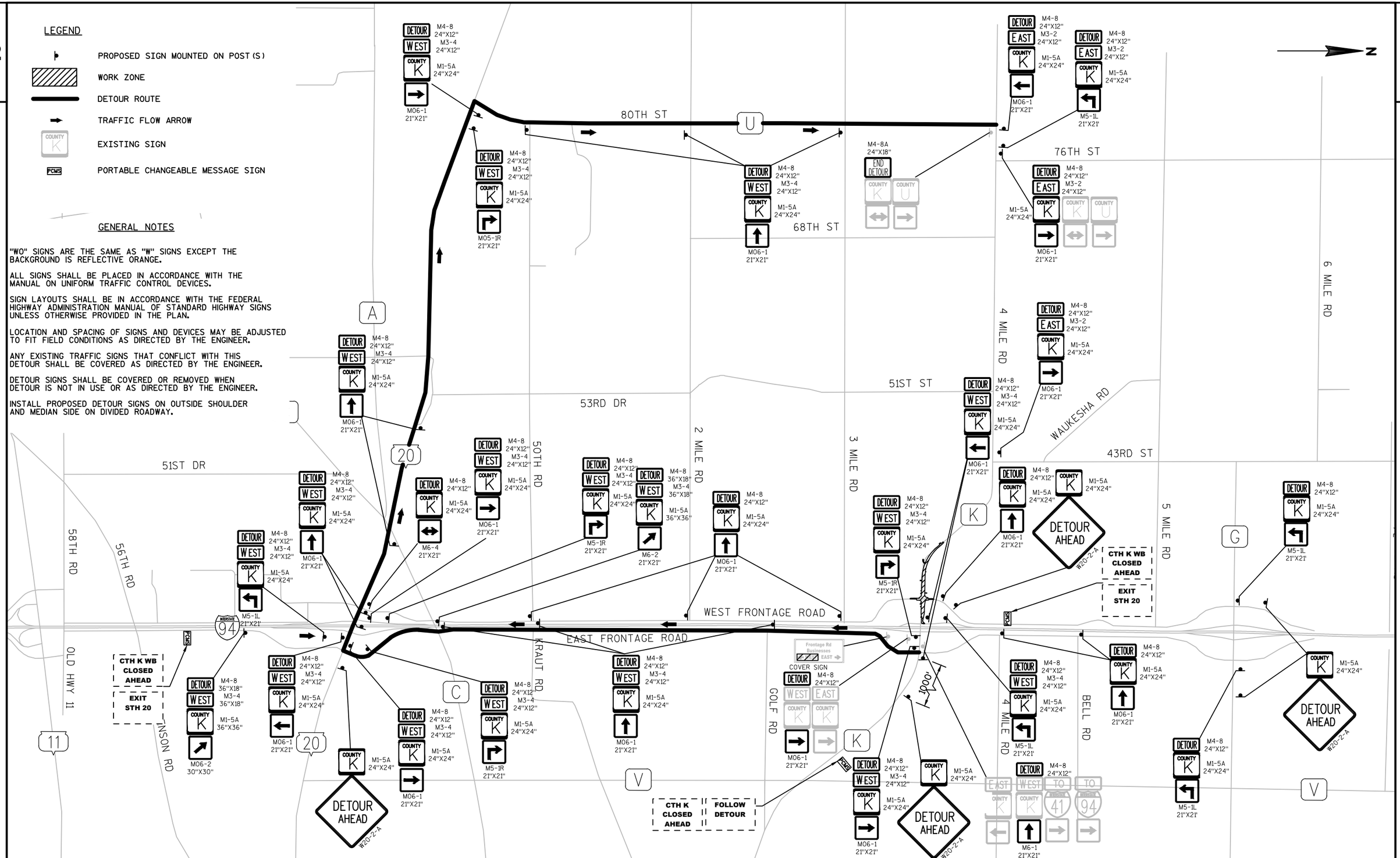
SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.

LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS DETOUR SHALL BE COVERED AS DIRECTED BY THE ENGINEER.

DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN DETOUR IS NOT IN USE OR AS DIRECTED BY THE ENGINEER.

INSTALL PROPOSED DETOUR SIGNS ON OUTSIDE SHOULDER AND MEDIAN SIDE ON DIVIDED ROADWAY.



PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	STAGE 1 - WB/SB DETOUR	SHEET 188 E

LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- WORK ZONE
- DETOUR ROUTE
- TRAFFIC FLOW ARROW
- EXISTING SIGN
- PORTABLE CHANGEABLE MESSAGE SIGN

N

80TH ST
76TH ST
68TH ST
55TH DR
53RD DR
51ST DR
51ST ST
43RD ST
58TH RD
56TH RD
50TH RD
2 MILE RD
3 MILE RD
4 MILE RD
5 MILE RD
6 MILE RD
KRAUT RD
GOLF RD
BELL RD
WAUKESHA RD
WEST FRONTAGE ROAD
EAST FRONTAGE ROAD

DETOUR / EAST / COUNTY K — M4-8 24"X12", M3-2 24"X12", M1-5A 24"X24", M06-1 21"X21"
DETOUR / EAST / COUNTY K — M4-8 24"X12", M3-2 24"X12", M1-5A 24"X24", M05-1L 21"X21"
DETOUR / COUNTY K / COUNTY U — M4-8 24"X12", M06-1 21"X21"
CTH K CLOSED AHEAD — FOLLOW DETOUR — PCMS
COUNTY K — M1-5A 24"X24" — DETOUR AHEAD — W20-2-A — 1000'
DETOUR / COUNTY K — M4-8 24"X12", M1-5A 24"X24", M06-1 21"X21"
DETOUR / COUNTY K — M4-8 24"X12", M1-5A 24"X24", M6-4 21"X21"
DETOUR / COUNTY K — M4-8 24"X12", M1-5A 24"X24", M05-1L 21"X21"
DETOUR / COUNTY K — M4-8 24"X12", M1-5A 24"X24", M06-1 21"X21"
DETOUR / EAST / COUNTY K — M4-8 24"X12", M3-2 24"X12", M1-5A 24"X24", M06-1 21"X21"
DETOUR / COUNTY K — M4-8 24"X12", M1-5A 24"X24", M06-1 21"X21"
COUNTY K — M1-5A 24"X24" — DETOUR AHEAD — W20-2-A
DETOUR / EAST / COUNTY K — M4-8 24"X12", M3-2 24"X12", M1-5A 24"X24", M06-1 21"X21"
DETOUR / COUNTY K — M4-8 24"X12", M1-5A 24"X24", M06-1 21"X21"
DETOUR / COUNTY K — M4-8 24"X12", M1-5A 24"X24", M5-1R 21"X21"
DETOUR / COUNTY K — M4-8 24"X12", M1-5A 24"X24", M06-1 21"X21"
M4-8A 24"X18" — END DETOUR — TO WEST / EAST — INTERSTATE 94 — COUNTY K / COUNTY K

GENERAL NOTES

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.

ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.

LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS DETOUR SHALL BE COVERED AS DIRECTED BY THE ENGINEER.

DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN DETOUR IS NOT IN USE OR AS DIRECTED BY THE ENGINEER.

INSTALL PROPOSED DETOUR SIGNS ON OUTSIDE SHOULDER AND MEDIAN SIDE ON DIVIDED ROADWAY.

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	STAGE 1 - EB/NB DETOUR	SHEET 189	E

LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- WORK ZONE
- DETOUR ROUTE
- TRAFFIC FLOW ARROW
- EXISTING SIGN
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- (XXX) — FMS NUMBER (REFER TO TRAFFIC CONTROL - CONSTRUCTION DETAILS)

GENERAL NOTES

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.

ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.

LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS DETOUR SHALL BE COVERED AS DIRECTED BY THE ENGINEER.

DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN DETOUR IS NOT IN USE OR AS DIRECTED BY THE ENGINEER.

INSTALL PROPOSED DETOUR SIGNS ON OUTSIDE SHOULDER AND MEDIAN SIDE ON DIVIDED ROADWAY.

2

N

68TH ST
53RD DR
51ST ST
51ST DR
43RD ST
WAUKESHA RD
WEST FRONTAGE ROAD
EAST FRONTAGE ROAD
LOUIS SORENSON RD
50TH RD
KRAUT RD
GOLF RD
BELL RD
2 MILE RD
3 MILE RD
4 MILE RD
5 MILE RD
6½MILE RD
7 MILE RD

CTH K EB CLOSED AHEAD
EXIT STH 20
CTH K CLOSED AHEAD
FOLLOW DETOUR
COVER SIGN
COVER SIGNS
Frontage Rd Businesses WEST
PLACED UNDER EXISTING GAS/FOOD BLUE SIGN
PLACED UNDER EXISTING GAS/FOOD BLUE SIGN
1000'
STOP AHEAD
DETOUR AHEAD
END DETOUR
ALL WAY

PROJECT NO:1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	STAGE 2 - WB/NB DETOUR	SHEET 190 E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\027001_DT.DWG
LAYOUT NAME - 027003
PLOT DATE : 3/20/2017 9:42 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :
PLOT SCALE : 1 IN:3000 FT
WISDOT/CADDS SHEET 42

LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- WORK ZONE
- DETOUR ROUTE
- TRAFFIC FLOW ARROW
- EXISTING SIGN
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- (XXX) — FMS NUMBER (REFER TO TRAFFIC CONTROL - CONSTRUCTION DETAILS)

68TH ST
53RD DR
51ST ST
43RD ST
WEST FRONTAGE ROAD
EAST FRONTAGE ROAD
50TH RD
2 MILE RD
3 MILE RD
4 MILE RD
6 MILE RD
6 1/2 MILE RD
7 MILE RD
KRAUT RD
GOLF RD
BELL RD
WALKESHA RD

CTH K CLOSED AHEAD
FOLLOW DETOUR
DETOUR AHEAD W20-2-A 1000'
COVER SIGN
COVER SIGNS
STOP ALL WAY R1-3-P 18"X6" (2 SIGNS)
CTH K EB CLOSED AHEAD
EXIT CTH G

NOTE:

* TEMPORARY STOP SIGN INSTALLED - SEE DETOUR PLAN 'STAGE 2 - WB/NB DETOUR'

GENERAL NOTES

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS REFLECTIVE ORANGE.

ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS UNLESS OTHERWISE PROVIDED IN THE PLAN.

LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS DETOUR SHALL BE COVERED AS DIRECTED BY THE ENGINEER.

DETOUR SIGNS SHALL BE COVERED OR REMOVED WHEN DETOUR IS NOT IN USE OR AS DIRECTED BY THE ENGINEER.

INSTALL PROPOSED DETOUR SIGNS ON OUTSIDE SHOULDER AND MEDIAN SIDE ON DIVIDED ROADWAY.

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	STAGE 2 - EB/SB DETOUR	SHEET 191 E

2

N

106165
738.969
CP F1000SPK Berntsen Feno with Alum Cap
N = 205464.884
E = 591361.696

106104
740.584
CP BM NAIL SW FACE PP NO. 13-01077 NE SIDE CTH K
N = 205402.246
E = 591406.209

CTH K

14EB

16EB

18WB

18EB

SEPV SEPTIC SEPV

4129
SEC4129

105631
797.790
CP BM BRIDGE DISK TOP PARAPET WALL NW CORNER I94 BRIDGE 51-30-59 OVER CTH K
N = 204899.369
E = 594011.200

44WB

4130
SEC4130

44EB

46WB

46EB

CTH K

48WB

48EB

105490
797.864
CP BM BRIDGE DISK TOP PARAPET WALL SE CORNER I94 BRIDGE 51-30-59 OVER CTH K
N = 204756.921
E = 594131.260

IH 41/94 SB

IH 41/94 NB

CANOPY

FILLER CAPS

INL

SIGN

MH

68WB

68EB

70WB

70EB

CTH K

104608
766.949
CP F1000SPK Berntsen Feno with Alum Cap
N = 203848.633
E = 596660.369

72WB

74WB

4058

4056

4054

2058

2056

105998
782.980
CP F1000SPK Berntsen Feno with Alum Cap
N = 205275.956
E = 593100.486

WEST FRONTAGE ROAD

34WB

34EB

CTH K

SEPC

ANT

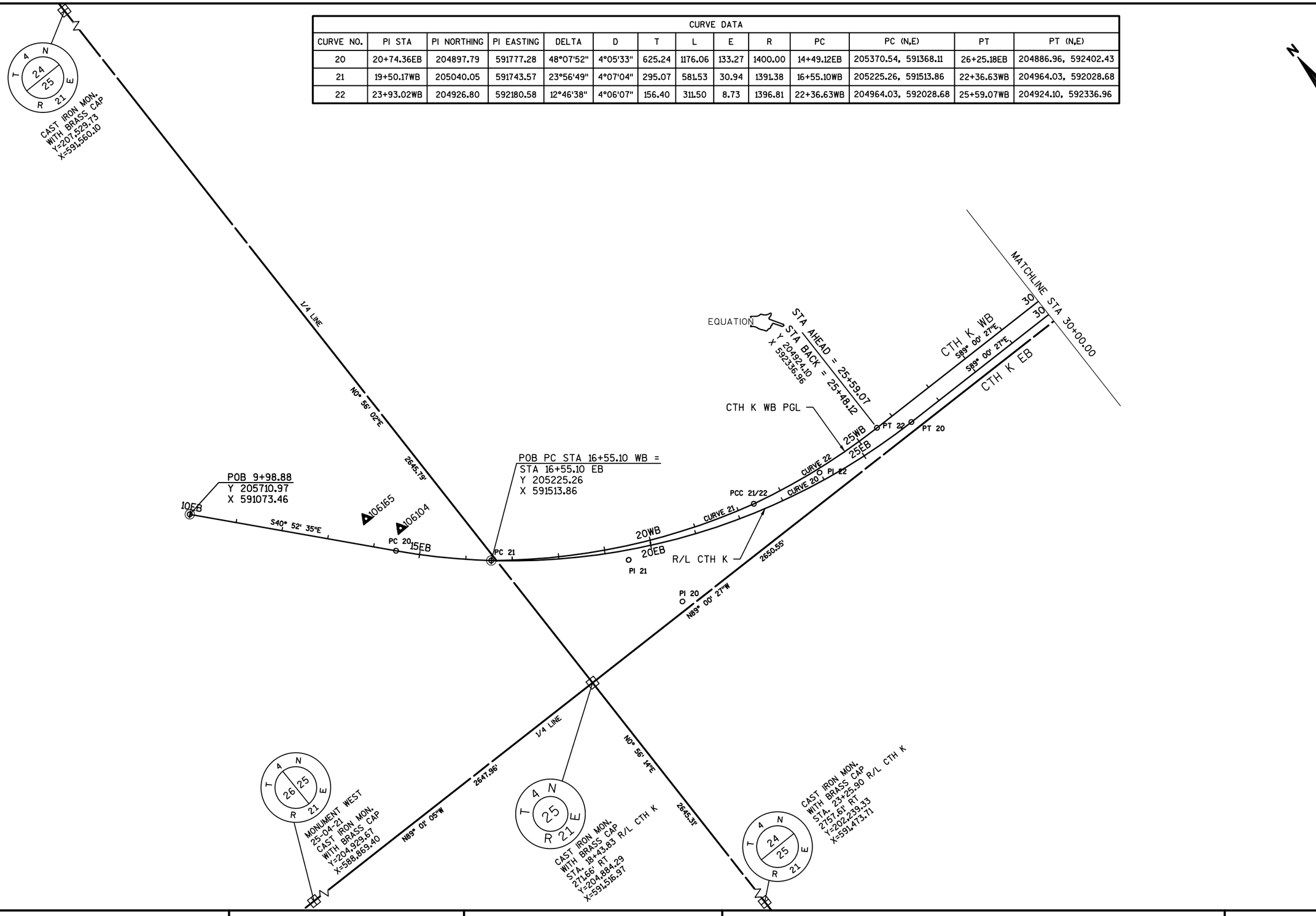
FRONTAGE ROAD

2

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	SURVEY CONTROL	SHEET 192	E

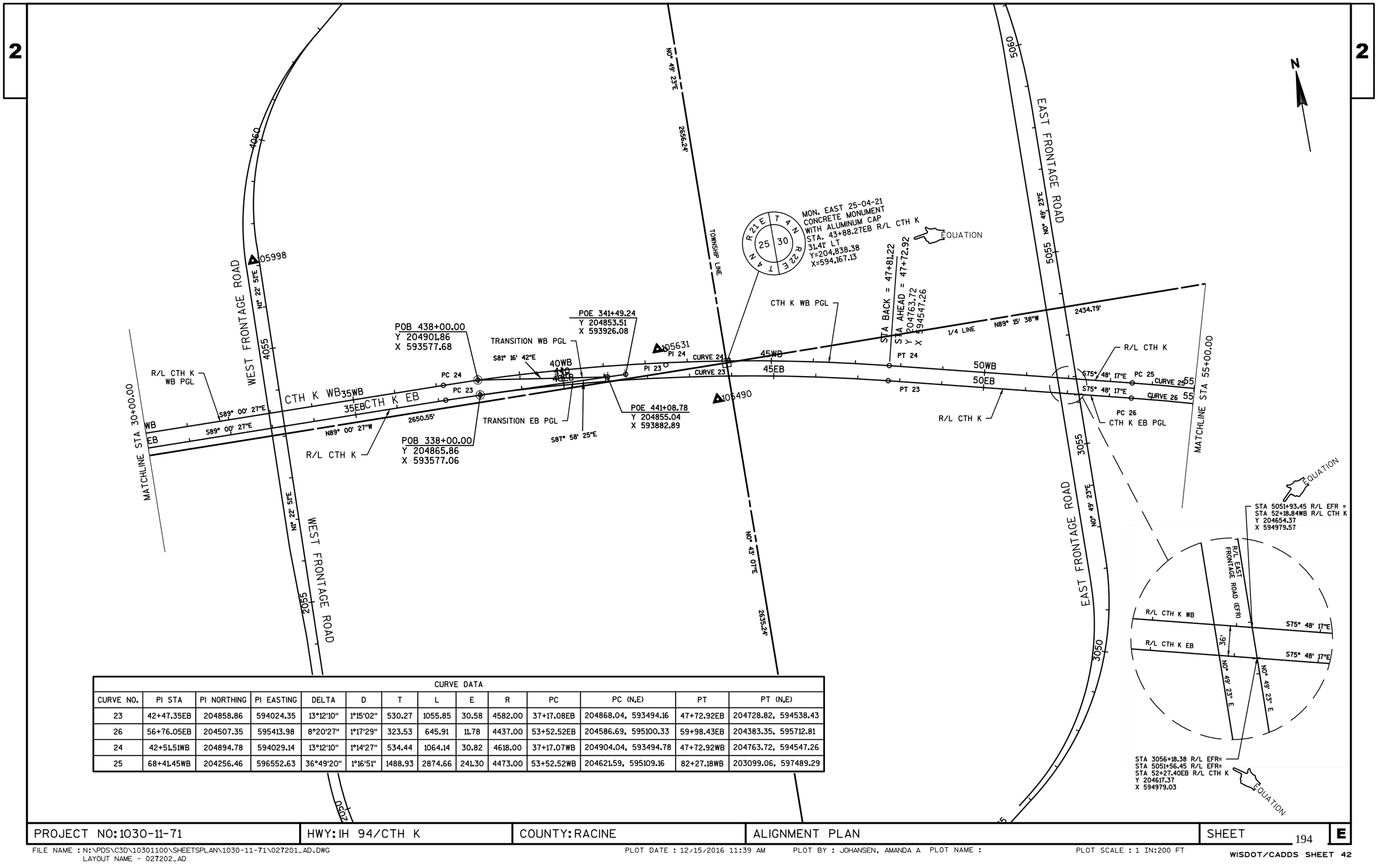
2

CURVE DATA													
CURVE NO.	PI STA	PI NORTHING	PI EASTING	DELTA	D	T	L	E	R	PC	PC (N,E)	PT	PT (N,E)
20	20+74.36EB	204897.79	591777.28	48°07'52"	4°05'33"	625.24	1176.06	133.27	1400.00	14+49.12EB	205370.54, 591368.11	26+25.18EB	204886.96, 592402.43
21	19+50.17WB	205040.05	591743.57	23°56'49"	4°07'04"	295.07	581.53	30.94	1391.38	16+55.10WB	205225.26, 591513.86	22+36.63WB	204964.03, 592028.68
22	23+93.02WB	204926.80	592180.58	12°46'38"	4°06'07"	156.40	311.50	8.73	1396.81	22+36.63WB	204964.03, 592028.68	25+59.07WB	204924.10, 592336.96



PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	ALIGNMENT PLAN	SHEET 193	E

2



CURVE DATA													
CURVE NO.	PI STA	PI NORTHING	PI EASTING	DELTA	D	T	L	E	R	PC	PC (N,E)	PT	PT (N,E)
23	42+47.35EB	204858.86	594024.35	13°12'10"	1°15'02"	530.27	1055.85	30.58	4582.00	37+17.08EB	204868.04, 593494.16	47+72.92EB	204728.82, 594538.43
26	56+76.05EB	204507.35	595413.98	8°20'27"	1°17'29"	323.53	645.91	11.78	4437.00	53+52.52EB	204586.69, 595100.33	59+98.43EB	204383.35, 595712.81
24	42+51.51WB	204894.78	594029.14	13°12'10"	1°14'27"	534.44	1064.14	30.82	4618.00	37+17.07WB	204904.04, 593494.78	47+72.92WB	204763.72, 594547.26
25	68+41.45WB	204256.46	596552.63	36°49'20"	1°16'51"	1488.93	2874.66	241.30	4473.00	53+52.52WB	204621.59, 595109.16	82+27.18WB	203099.06, 597489.29

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	ALIGNMENT PLAN	SHEET 194	E

2

N

T 4 N
30
R 22 E

CAST IRON MON.
WITH BRASS CAP
STA. 65+70.61 R/L CTH K
737.75' LT
Y=204,806.96
X=596,601.71

N89° 15' 38"W 2454.79'

1/4 LINE

PI 25

EQUATION

1/4 SEC. LINE

STA AHEAD 136+12.70
C/L EXIST CTH K
Y 203946.44
X 596595.95

9.89'

C/L EXIST CTH K
R 4297.18' PT 28
R 4473.00'

R/L CTH K

70WB

CTH K EB PGL

70EB

N0° 23' 00" E

STA BACK 69+98.75WB
R/L CTH K
Y 203936.55
X 596595.89

POE 12+24.40
Y 204658.04
X 595727.79

R/L CAROL ROAD

N22° 44' 54"E

POB 10+00.00
Y 204451.09
X 595641.02

R/L CTH K

65WB
65EB

PI 28

70WB
70EB

PT 28

CTH K C/L
(EXISTING CENTER
OF ROADWAY)

60WB

CURVE 25

CURVE 27

CURVE 28

PCC 27/28

PI 27

60EB

S67° 27' 50"E

PC 27

PT 26

PI 26 CURVE 26

CTH K WB

CTH K EB

MATCHLINE STA 55+00.00

CTH K EB PGL

1/4 LINE

POC STA 70+71.43 EB PGL =
STA 70+80.26 R/L CTH K
Y 203888.87
X 596661.99

140

75WB

145

80WB

R/L CTH K

PT 25

150

POE 82+27.18
Y 203099.06
X 597489.29

N0° 23' 00"E 2641.83'

T 4 N
30
31
R 21 E

CAST IRON MON.
WITH BRASS CAP
STA. 83+88.27 R/L CTH K
1294.38' RT
Y=202,159.19
X=596,584.00

CURVE DATA

CURVE NO.	PI STA	PI NORTHING	PI EASTING	DELTA	D	T	L	E	R	PC	PC (N,E)	PT	PT (N,E)
26	56+76.05EB	204507.35	595413.98	8°20'27"	1°17'29"	323.53	645.91	11.78	4437.00	53+52.52EB	204586.69, 595100.33	59+98.43EB	204383.35, 595712.81
27	63+52.81EB	204247.53	596040.12	3°25'35"	1°16'45"	133.99	267.89	2.00	4479.51	62+18.83EB	204298.88, 595916.37	64+86.72EB	204188.87, 596160.59
28	67+79.49EB	204055.28	596421.11	7°29'26"	1°16'52"	292.77	584.72	9.57	4472.49	64+86.72EB	204188.87, 596160.59	70+71.43EB	203888.87, 596661.99
25	68+41.45WB	204256.46	596552.63	36°49'20"	1°16'51"	1488.93	2874.66	241.30	4473.00	53+52.52WB	204621.59, 595109.16	82+27.18WB	203099.06, 597489.29

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	ALIGNMENT PLAN	SHEET 195	E

2

EASTBOUND CTH K			
SUPERELEVATION DESCRIPTION	STATION	WESTBOUND	
		SLOPE LT OF CROWN	SLOPE RT OF CROWN
END NORMAL CROWN	12+49 EB	-2.00%	-2.00%
REMOVE CROWN	13+16 EB	-2.00%	0.00%
SUPER = NC	13+83 EB	-2.00%	2.00%
BEGIN FULL SUPER	15+16 EB	-6.00%	6.00%
END FULL SUPER	25+59 EB	-6.00%	6.00%
SUPER = NC	26+26 EB	-2.00%	2.00%
REMOVE CROWN	27+59 EB	-2.00%	0.00%
BEGIN NORMAL CROWN	28+26 EB	-2.00%	-2.00%
END NORMAL CROWN	31+80 EB	-2.00%	-2.00%
BEGIN REDUCED CROWN	32+30 EB	-1.00%	-1.00%
END REDUCED CROWN	33+90 EB	-1.00%	-1.00%
BEGIN NORMAL CROWN	34+40 EB	-2.00%	-2.00%
END NORMAL CROWN	39+50 EB	-2.00%	-2.00%
BEGIN REDUCED CROWN	40+00 EB	-1.00%	-1.00%
END REDUCED CROWN	41+35 EB	-1.00%	-1.00%
BEGIN NORMAL CROWN	41+85 EB	-2.00%	-2.00%
END NORMAL CROWN	43+50 EB	-2.00%	-2.00%
BEGIN REDUCED CROWN	44+00 EB	-1.00%	-1.00%
END REDUCED CROWN	45+50 EB	-1.00%	-1.00%
BEGIN NORMAL CROWN	46+00 EB	-2.00%	-2.00%
END NORMAL CROWN	50+55 EB	-2.00%	-2.00%
BEGIN REDUCED CROWN	51+05 EB	-1.00%	-1.00%
END REDUCED CROWN	52+94 EB	-1.00%	-1.00%
REMOVE CROWN	53+13 EB	0.00%	-2.00%
BEGIN FULL SUPER	53+55 EB	2.00%	-2.00%

WESTBOUND CTH K			
SUPERELEVATION DESCRIPTION	STATION	EASTBOUND	
		SLOPE LT OF CROWN	SLOPE RT OF CROWN
END FULL SUPER	24+83 WB	-6.00%	6.00%
SUPER = NC	26+16 WB	-2.00%	2.00%
REMOVE CROWN	26+83 WB	-2.00%	0.00%
BEGIN NORMAL CROWN	27+59 WB	-2.00%	-2.00%
END NORMAL CROWN	31+80 WB	-2.00%	-2.00%
BEGIN REDUCED CROWN	32+30 WB	-1.00%	-1.00%
END REDUCED CROWN	33+90 WB	-1.00%	-1.00%
BEGIN NORMAL CROWN	34+40 WB	-2.00%	-2.00%
END NORMAL CROWN	39+75 WB	-2.00%	-2.00%
BEGIN REDUCED CROWN	40+25 WB	-1.00%	-1.00%
END REDUCED CROWN	41+35 WB	-1.00%	-1.00%
BEGIN NORMAL CROWN	41+85 WB	-2.00%	-2.00%
END NORMAL CROWN	43+55 WB	-2.00%	-2.00%
BEGIN REDUCED CROWN	44+05 WB	-1.00%	-1.00%
END REDUCED CROWN	45+50 WB	-1.00%	-1.00%
BEGIN NORMAL CROWN	46+00 WB	-2.00%	-2.00%
END NORMAL CROWN	50+75 WB	-2.00%	-2.00%
BEGIN REDUCED CROWN	51+25 WB	-1.00%	-1.00%
END REDUCED CROWN	52+94 WB	-1.00%	-1.00%
REMOVE CROWN	53+13 WB	0.00%	-2.00%
BEGIN FULL SUPER	53+55 WB	2.00%	-2.00%
END FULL SUPER	75+12 WB	2.00%	-2.00%
PAVEMENT WARPING	76+00 WB	4.69%	-4.69%

2

WEST FRONTAGE ROAD - SOUTH OF CTH K			
SUPERELEVATION DESCRIPTION	STATION	SLOPE LT	SLOPE RT
END NORMAL CROWN	2058+05	-2.00%	-2.00%
REMOVE CROWN	2058+46	-2.00%	0.00%
BEGIN FULL SUPER	2058+75	-1.46%	1.31%
MATCH CTH K	2058+98	-1.46%	1.31%

WEST FRONTAGE ROAD - NORTH OF CTH K			
SUPERELEVATION DESCRIPTION	STATION	SLOPE LT	SLOPE RT
MATCH CTH K	4053+74	-1.46%	1.30%
REMOVE CROWN	4054+12	-2.00%	0.00%
BEGIN NORMAL CROWN	4054+70	-2.00%	-2.00%

EAST FRONTAGE ROAD - SOUTH OF CTH K			
SUPERELEVATION DESCRIPTION	STATION	SLOPE LT	SLOPE RT
FULL SUPER	3050+60	-3.90%	3.90%
END FULL SUPER	3052+02	-3.90%	3.90%
REMOVE CROWN	3052+83	-2.00%	0.00%
BEGIN NORMAL CROWN	3053+25	-2.00%	-2.00%
NORMAL CROWN	3055+28	-2.00%	-2.00%
PAVEMENT WARPING	3055+88	0.10%	-0.26%
MATCH CTH K	3056+02	0.10%	-0.26%

EAST FRONTAGE ROAD - NORTH OF CTH K			
SUPERELEVATION DESCRIPTION	STATION	SLOPE LT	SLOPE RT
MATCH CTH K	5052+29	-0.71%	-0.70%
PAVEMENT WARPING	5052+50	-0.71%	-0.70%
REMOVE NORMAL CROWN	5052+76	0.00%	-2.00%
BEGIN NORMAL CROWN	5053+06	-2.00%	-2.00%

CTH K - TEMPORARY BYPASS			
SUPERELEVATION DESCRIPTION	STATION	SLOPE LT	SLOPE RT
SUPER = NORMAL CROWN	7+75	-2.00%	2.00%
END SUPER = NORMAL CROWN	16+50	-2.00%	2.00%
FULL SUPER	18+50	6.00%	-6.00%

1030-11-71

Line	Item	Item Description	Unit	Total	Qty
0010	108.4400	CPM Progress Schedule	EACH	1.000	1.000
0020	201.0105	Clearing	STA	11.000	11.000
0030	201.0120	Clearing	ID	120.000	120.000
0040	201.0205	Grubbing	STA	11.000	11.000
0050	201.0220	Grubbing	ID	120.000	120.000
0060	203.0100	Removing Small Pipe Culverts	EACH	21.000	21.000
0070	204.0100	Removing Pavement	SY	14,558.000	14,558.000
0080	204.0150	Removing Curb & Gutter	LF	197.000	197.000
0090	204.0210	Removing Manholes	EACH	3.000	3.000
0100	204.0245	Removing Storm Sewer (size) 008. 18-Inch	LF	35.000	35.000
0110	204.0245	Removing Storm Sewer (size) 014. 24x38-Inch	LF	59.000	59.000
0120	204.9060.S	Removing (item description) 001. Wooden Bollards	EACH	4.000	4.000
0130	204.9060.S	Removing (item description) 002. Cover Plates Left In Place	EACH	3.000	3.000
0140	204.9165.S	Removing (item description) 001. Concrete Median Sloped Nose	SF	159.000	159.000
0150	205.0100	Excavation Common	CY	57,605.000	57,605.000
0160	213.0100	Finishing Roadway (project) 002. 1030-11-71	EACH	1.000	1.000
0170	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,166.000	1,166.000
0180	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	35,225.000	35,225.000
0190	310.0115	Base Aggregate Open-Graded	CY	30.000	30.000
0200	312.0110	Select Crushed Material	TON	28,220.000	28,220.000
0210	371.1000.S	QMP Base Aggregate Dense 1 1/4-Inch Compaction	TON	35,225.000	35,225.000
0220	415.0095	Concrete Pavement 9 1/2-Inch	SY	8,334.000	8,334.000
0230	415.0105	Concrete Pavement 10 1/2-Inch	SY	22,835.000	22,835.000
0240	416.0160	Concrete Driveway 6-Inch	SY	68.000	68.000
0250	416.1010	Concrete Surface Drains	CY	26.000	26.000
0260	440.4410	Incentive IRI Ride	DOL	7,651.000	7,651.000
0270	455.0605	Tack Coat	GAL	2,306.000	2,306.000
0280	460.2000	Incentive Density HMA Pavement	DOL	5,410.000	5,410.000
0290	460.7223	HMA Pavement 3 HT 58-28 S	TON	6,341.000	6,341.000
0300	460.7224	HMA Pavement 4 HT 58-28 S	TON	2,113.000	2,113.000
0310	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	179.000	179.000
0320	465.0125	Asphaltic Surface Temporary	TON	1,277.000	1,277.000
0330	495.1000.S	Cold patch	TON	20.000	20.000
0340	504.0900	Concrete Masonry Endwalls	CY	3.800	3.800
0350	520.1018	Apron Endwalls for Culvert Pipe 18-Inch	EACH	2.000	2.000
0360	520.1024	Apron Endwalls for Culvert Pipe 24-Inch	EACH	4.000	4.000
0370	520.1030	Apron Endwalls for Culvert Pipe 30-Inch	EACH	2.000	2.000
0380	520.1036	Apron Endwalls for Culvert Pipe 36-Inch	EACH	2.000	2.000

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Line	Item	Item Description	Unit	Total	Qty
0390	520.3318	Culvert Pipe Class III-A 18-Inch	LF	42.000	42.000
0400	520.3324	Culvert Pipe Class III-A 24-Inch	LF	89.000	89.000
0410	520.3330	Culvert Pipe Class III-A 30-Inch	LF	35.000	35.000
0420	520.3336	Culvert Pipe Class III-A 36-Inch	LF	77.000	77.000
0430	520.8000	Concrete Collars for Pipe	EACH	5.000	5.000
0440	522.1012	Apron Endwalls for Culvert Pipe Reinforced Concrete 12-Inch	EACH	2.000	2.000
0450	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	1.000	1.000
0460	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	2.000	2.000
0470	523.0419	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	LF	211.000	211.000
0480	523.0424	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	LF	327.000	327.000
0490	523.0429	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	LF	58.000	58.000
0500	523.0519	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 19x30-Inch	EACH	4.000	4.000
0510	523.0524	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	EACH	2.000	2.000
0520	523.0529	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 29x45-Inch	EACH	2.000	2.000
0530	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	13,284.000	13,284.000
0540	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	4,057.000	4,057.000
0550	602.0410	Concrete Sidewalk 5-Inch	SF	60,692.000	60,692.000
0560	602.2400	Concrete Safety Islands	SF	3,457.000	3,457.000
0570	606.0100	Riprap Light	CY	57.000	57.000
0580	606.0200	Riprap Medium	CY	96.000	96.000
0590	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	279.000	279.000
0600	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	126.000	126.000
0610	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	68.000	68.000
0620	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	1,387.000	1,387.000
0630	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	651.000	651.000
0640	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	LF	631.000	631.000
0650	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	1,696.000	1,696.000

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Line	Item	Item Description	Unit	Total	Qty
0660	608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	140.000	140.000
0670	608.0436	Storm Sewer Pipe Reinforced Concrete Class IV 36-Inch	LF	88.000	88.000
0680	608.3012	Storm Sewer Pipe Class III-A 12-Inch	LF	61.000	61.000
0690	608.3015	Storm Sewer Pipe Class III-A 15-Inch	LF	47.000	47.000
0700	610.0419	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 19x30-Inch	LF	282.000	282.000
0710	611.0535	Manhole Covers Type J-Special	EACH	17.000	17.000
0720	611.0606	Inlet Covers Type B	EACH	2.000	2.000
0730	611.0624	Inlet Covers Type H	EACH	86.000	86.000
0740	611.0642	Inlet Covers Type MS	EACH	2.000	2.000
0750	611.2004	Manholes 4-FT Diameter	EACH	5.000	5.000
0760	611.2006	Manholes 6-FT Diameter	EACH	15.000	15.000
0770	611.2007	Manholes 7-FT Diameter	EACH	1.000	1.000
0780	611.3003	Inlets 3-FT Diameter	EACH	2.000	2.000
0790	611.3004	Inlets 4-FT Diameter	EACH	79.000	79.000
0800	611.3901	Inlets Median 1 Grate	EACH	2.000	2.000
0810	611.8115	Adjusting Inlet Covers	EACH	2.000	2.000
0820	611.8120.S	Cover Plates Temporary	EACH	13.000	13.000
0830	611.9800.S	Pipe Grates	EACH	6.000	6.000
0840	612.0106	Pipe Underdrain 6-Inch	LF	815.000	815.000
0850	612.0700	Drain Tile Exploration	LF	2,000.000	2,000.000
0860	616.0700.S	Fence Safety	LF	5,000.000	5,000.000
0870	618.0100	Maintenance And Repair of Haul Roads (project) 002. 1030-11-71	EACH	1.000	1.000
0880	619.1000	Mobilization	EACH	1.000	1.000
0890	620.0100	Concrete Corrugated Median	SF	1,169.000	1,169.000
0900	620.0300	Concrete Median Sloped Nose	SF	2,895.000	2,895.000
0910	621.0100	Landmark Reference Monuments	EACH	3.000	3.000
0920	623.0200	Dust Control Surface Treatment	SY	63,855.000	63,855.000
0930	624.0100	Water	MGAL	643.000	643.000
0940	625.0500	Salvaged Topsoil	SY	48,676.000	48,676.000
0950	627.0200	Mulching	SY	48,676.000	48,676.000
0960	628.1104	Erosion Bales	EACH	36.000	36.000
0970	628.1504	Silt Fence	LF	4,845.000	4,845.000
0980	628.1520	Silt Fence Maintenance	LF	4,845.000	4,845.000
0990	628.1905	Mobilizations Erosion Control	EACH	6.000	6.000
1000	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000
1010	628.1920	Cleaning Sediment Basins	CY	6.000	6.000
1020	628.2004	Erosion Mat Class I Type B	SY	60,692.000	60,692.000

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Line	Item	Item Description	Unit	Total	Qty
1030	628.7005	Inlet Protection Type A	EACH	108.000	108.000
1040	628.7020	Inlet Protection Type D	EACH	103.000	103.000
1050	628.7504	Temporary Ditch Checks	LF	453.000	453.000
1060	628.7555	Culvert Pipe Checks	EACH	13.000	13.000
1070	628.7560	Tracking Pads	EACH	4.000	4.000
1080	629.0210	Fertilizer Type B	CWT	31.000	31.000
1090	630.0130	Seeding Mixture No. 30	LB	875.000	875.000
1100	630.0200	Seeding Temporary	LB	219.000	219.000
1110	633.5200	Markers Culvert End	EACH	13.000	13.000
1120	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	153.000	153.000
1130	637.2210	Signs Type II Reflective H	SF	943.240	943.240
1140	637.2215	Signs Type II Reflective H Folding	SF	82.160	82.160
1150	637.2230	Signs Type II Reflective F	SF	272.500	272.500
1160	638.2102	Moving Signs Type II	EACH	29.000	29.000
1170	638.2602	Removing Signs Type II	EACH	74.000	74.000
1180	638.3000	Removing Small Sign Supports	EACH	109.000	109.000
1190	641.8100	Overhead Sign Support (structure) 001. S-51-217	LS	1.000	1.000
1200	641.8100	Overhead Sign Support (structure) 002. S-51-240	LS	1.000	1.000
1210	641.8100	Overhead Sign Support (structure) 003. S-51-216	LS	1.000	1.000
1220	643.0100	Traffic Control (project) 002. 1030-11-71	EACH	1.000	1.000
1230	643.0300	Traffic Control Drums	DAY	22,199.000	22,199.000
1240	643.0420	Traffic Control Barricades Type III	DAY	6,143.000	6,143.000
1250	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	23.000	23.000
1260	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	23.000	23.000
1270	643.0705	Traffic Control Warning Lights Type A	DAY	6,156.000	6,156.000
1280	643.0715	Traffic Control Warning Lights Type C	DAY	6,160.000	6,160.000
1290	643.0900	Traffic Control Signs	DAY	8,804.000	8,804.000
1300	643.0910	Traffic Control Covering Signs Type I	EACH	6.000	6.000
1310	643.0920	Traffic Control Covering Signs Type II	EACH	31.000	31.000
1320	643.1000	Traffic Control Signs Fixed Message	SF	448.000	448.000
1330	643.1050	Traffic Control Signs PCMS	DAY	1,713.000	1,713.000
1340	643.2000	Traffic Control Detour (project) 001. 1030-11-71	EACH	1.000	1.000
1350	643.3000	Traffic Control Detour Signs	DAY	54,856.000	54,856.000
1360	645.0111	Geotextile Type DF Schedule A	SY	4,075.000	4,075.000
1370	645.0120	Geotextile Type HR	SY	228.000	228.000
1380	645.0130	Geotextile Type R	SY	172.000	172.000
1390	645.0220	Geogrid Type SR	SY	63,855.000	63,855.000
1400	646.0103	Pavement Marking Paint 4-Inch	LF	2,909.000	2,909.000
1410	646.0106	Pavement Marking Epoxy 4-Inch	LF	32,735.000	32,735.000
1420	646.0690.S	Removing Pavement Markings Water Blasting	LF	817.000	817.000

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Line	Item	Item Description	Unit	Total	Qty
1430	646.0842.S	Pavement Marking Grooved Contrast Wet Reflective Epoxy 4-Inch	LF	4,294.000	4,294.000
1440	646.0844.S	Pavement Marking Grooved Contrast Wet Reflective Epoxy 8-Inch	LF	7,312.000	7,312.000
1450	647.0156	Pavement Marking Arrows Epoxy Type 1	EACH	3.000	3.000
1460	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	31.000	31.000
1470	647.0176	Pavement Marking Arrows Epoxy Type 3	EACH	1.000	1.000
1480	647.0356	Pavement Marking Words Epoxy	EACH	28.000	28.000
1490	647.0456	Pavement Marking Curb Epoxy	LF	398.000	398.000
1500	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	582.000	582.000
1510	647.0606	Pavement Marking Island Nose Epoxy	EACH	15.000	15.000
1520	647.0726	Pavement Marking Diagonal Epoxy 12-Inch	LF	1,370.000	1,370.000
1530	647.0856	Pavement Marking Concrete Corrugated Median Epoxy	SF	328.000	328.000
1540	649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF	18,164.000	18,164.000
1550	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	3,908.000	3,908.000
1560	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	2,252.000	2,252.000
1570	652.0605	Conduit Special 2-Inch	LF	61.000	61.000
1580	652.0800	Conduit Loop Detector	LF	1,376.000	1,376.000
1590	653.0135	Pull Boxes Steel 24x36-Inch	EACH	7.000	7.000
1600	653.0140	Pull Boxes Steel 24x42-Inch	EACH	34.000	34.000
1610	653.0905	Removing Pull Boxes	EACH	6.000	6.000
1620	654.0101	Concrete Bases Type 1	EACH	6.000	6.000
1630	654.0105	Concrete Bases Type 5	EACH	14.000	14.000
1640	654.0113	Concrete Bases Type 13	EACH	4.000	4.000
1650	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	1.000	1.000
1660	655.0230	Cable Traffic Signal 5-14 AWG	LF	512.000	512.000
1670	655.0240	Cable Traffic Signal 7-14 AWG	LF	1,033.000	1,033.000
1680	655.0260	Cable Traffic Signal 12-14 AWG	LF	3,307.000	3,307.000
1690	655.0305	Cable Type UF 2-12 AWG Grounded	LF	2,896.000	2,896.000
1700	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	5,044.000	5,044.000
1710	655.0610	Electrical Wire Lighting 12 AWG	LF	3,960.000	3,960.000
1720	655.0615	Electrical Wire Lighting 10 AWG	LF	550.000	550.000
1730	655.0620	Electrical Wire Lighting 8 AWG	LF	8,880.000	8,880.000
1740	655.0630	Electrical Wire Lighting 4 AWG	LF	8,250.000	8,250.000
1750	655.0700	Loop Detector Lead In Cable	LF	6,031.000	6,031.000
1760	655.0800	Loop Detector Wire	LF	5,018.000	5,018.000
1770	656.0200	Electrical Service Meter Breaker Pedestal (location) 001. CTH K & East Frontage Rd	LS	1.000	1.000
1780	657.0100	Pedestal Bases	EACH	6.000	6.000
1790	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	14.000	14.000

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Line	Item	Item Description	Unit	Total	Qty
1800	657.0322	Poles Type 5-Aluminum	EACH	14.000	14.000
1810	657.0420	Traffic Signal Standards Aluminum 13-FT	EACH	2.000	2.000
1820	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	4.000	4.000
1830	657.0610	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	EACH	24.000	24.000
1840	657.1360	Install Poles Type 13	EACH	4.000	4.000
1850	657.1545	Install Monotube Arms 45-FT	EACH	1.000	1.000
1860	657.1550	Install Monotube Arms 50-FT	EACH	3.000	3.000
1870	657.1815	Install Luminaire Arms Steel 15-FT	EACH	8.000	8.000
1880	658.0110	Traffic Signal Face 3-12 Inch Vertical	EACH	12.000	12.000
1890	658.0115	Traffic Signal Face 4-12 Inch Vertical	EACH	8.000	8.000
1900	658.0215	Backplates Signal Face 3 Section 12-Inch	EACH	12.000	12.000
1910	658.0220	Backplates Signal Face 4 Section 12-Inch	EACH	8.000	8.000
1920	658.0600	Led Modules 12-Inch Red Ball	EACH	12.000	12.000
1930	658.0605	Led Modules 12-Inch Yellow Ball	EACH	12.000	12.000
1940	658.0610	Led Modules 12-Inch Green Ball	EACH	12.000	12.000
1950	658.0615	Led Modules 12-Inch Red Arrow	EACH	8.000	8.000
1960	658.0620	Led Modules 12-Inch Yellow Arrow	EACH	16.000	16.000
1970	658.0625	Led Modules 12-Inch Green Arrow	EACH	8.000	8.000
1980	658.5069	Signal Mounting Hardware (location) 001. CTH K & East Frontage Rd	LS	1.000	1.000
1990	659.1125	Luminaires Utility LED C	EACH	32.000	32.000
2000	670.0100	Field System Integrator 300. 1030-11-71 Traffic Signals	LS	1.000	1.000
2010	670.0200	ITS Documentation 300. 1030-11-71 Traffic Signals	LS	1.000	1.000
2020	678.0500	Communication System Testing 300. 1030-11-71 Traffic Signals	LS	1.000	1.000
2030	690.0150	Sawing Asphalt	LF	946.000	946.000
2040	690.0250	Sawing Concrete	LF	267.000	267.000
2050	715.0415	Incentive Strength Concrete Pavement	DOL	9,350.000	9,350.000
2060	SPV.0060	Special 001. Field Facilities Office Space	EACH	1.000	1.000
2070	SPV.0060	Special 005. Erosion Control Filter Bags	EACH	25.000	25.000
2080	SPV.0060	Special 010. Removing Flashing Beacon and Pole WB CTH K RT at E Frontage Road	EACH	1.000	1.000
2090	SPV.0060	Special 011. Removing Flashing Beacon and Pole WB CTH K LT at E Frontage Road	EACH	1.000	1.000
2100	SPV.0060	Special 012. Moving Flashing Beacon and Pole EB CTH K RT at W Frontage Road	EACH	1.000	1.000
2110	SPV.0060	Special 013. Moving Flashing Beacon and Pole EB CTH K LT at W Frontage Road	EACH	1.000	1.000
2120	SPV.0060	Special 030. Silt Fence Drainage Outlet Erosion Control Filter Bags	EACH	1.000	1.000
2130	SPV.0060	Special 101. Removing Lighting Units	EACH	8.000	8.000

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Line	Item	Item Description	Unit	Total	Qty
2140	SPV.0060	Special 102. Lamp Disposal High Intensity Discharge	EACH	8.000	8.000
2150	SPV.0060	Special 500. Adjusting Water Valves	EACH	13.000	13.000
2160	SPV.0060	Special 502. Remove And Reinstall Mailboxes	EACH	13.000	13.000
2170	SPV.0075	Special 009. Pavement Cleanup	HRS	100.000	100.000
2180	SPV.0090	Special 101. Removing Electrical Wire From Conduit	LF	2,520.000	2,520.000
2190	SPV.0090	Special 300. Fiber Optic Tracer Wire	LF	936.000	936.000
2200	SPV.0105	Special 002. Survey Project 1030-11-71	LS	1.000	1.000
2210	SPV.0105	Special 003. Concrete Pavement Joint Layout	LS	1.000	1.000
2220	SPV.0105	Special 101. Maintenance of Lighting System	LS	1.000	1.000
2230	SPV.0105	Special 102. Freeway Lighting Integrator Id 1030-11-71	LS	1.000	1.000
2240	SPV.0105	Special 103. Lighting System Survey	LS	1.000	1.000
2250	SPV.0105	Special 104. Temporary Mailboxes	LS	1.000	1.000
2260	SPV.0105	Special 300. Install State Furnished Traffic Signal Cabinet CTH K & East Frontage Rd	LS	1.000	1.000
2270	SPV.0105	Special 301. Transport Traffic Signal & Intersection Lighting Materials CTH K & East Frontage Rd	LS	1.000	1.000
2280	SPV.0105	Special 302. Install Fiber Optic Communications in Cabinet CTH K & East Frontage Rd (CB S51-1438)	LS	1.000	1.000

CPM PROGRESS SCHEDULE

CATEGORY		108.4400 EACH
1000	PROJECT ID 1030-11-71	1.00
	TOTAL:	1.00

REMOVING SMALL PIPE CULVERTS

CATEGORY	ROADWAY	STATION	OFFSET	LENGTH	203.0100 REMOVING SMALL PIPE CULVERTS EACH
1000	CTH K EB	12+61	35' RT	303	1
		20+08	80' RT	50	1
		27+10	33' RT	19	1
		30+97	9' LT	31	1
		34+31	48' RT	24	1
		34+74	42' RT	22	1
		35+63	45' RT	35	1
		38+08	50' RT	48	1
		58+94	13' RT	28	1
	CTH K WB	48+22	26' LT	60	1
		48+88	23' LT	86	1
		51+10	34' LT	111	1
		62+61	41' LT	76	1
		64+86	33' LT	60	1
		66+02	45' LT	29	1
		68+29	48' LT	25	1
		70+35	53' LT	86	1
		74+05	62' LT	28	1
		74+94	53' LT	24	1
	W FRONT RD	4053+50	0'	82	1
	CAROL RD	58+92	0'	46	1
		TOTAL:			21

CLEARING AND GRUBBING

CATEGORY	LOCATION	STATION	TO STATION	OFFSET	201.0105 CLEARING STA	201.0205 GRUBBING STA	201.0120 CLEARING ID	201.0220 GRUBBING ID
1000	CTH K EB	27+00.00	28+00.00	RT	1	1	--	--
	CTH K EB	29+00.00	30+00.00	RT	1	1	--	--
	CTH K EB	28+25.15						
	CTH K EB	31+74.00		RT	--	--	20	20
	CTH K EB	34+12.55		RT	--	--	10	10
	CTH K EB	35+62.00		RT	--	--	18	18
	CTH K EB	54+65.00		RT	--	--	20	20
	CTH K EB	53+78.56		RT	--	--	12	12
	CTH K EB	55+40.00		RT	--	--	20	20
	CTH K WB	26+00.00	29+00.00	LT/RT	3	3	--	--
	CTH K WB	29+11.17		LT	--	--	8	8
	CTH K WB	35+00.00	36+00.00	LT	1	1	--	--
	CTH K WB	36+16.55		LT	--	--	12	12
	CTH K WB	37+00.00	38+00.00	LT	1	1	--	--
	CTH K WB	63+00.00	67+00.00	LT	4	4	--	--
			TOTAL:		11	11	120	120

REMOVING PAVEMENT

CATEGORY	ROADWAY	STATION	TO STATION	204.0100 REMOVING PAVEMENT SY
1000	CTH K	11+50.00	38+00.00	6715
	CTH K	45+75.00	76+00.00	7843
				14558

3

REMOVING CURB & GUTTER

CATEGORY	ROADWAY	STATION	TO STATION	204.0150 REMOVING CURB & GUTTER LF
1000	E FRONT. RD SOUTH LT	3048+80	3050+60	180
	E FRONT. RD NORTH LT	5055+81	5055+88	9
		5055+86	5055+94	8
	TOTAL:			197

REMOVING STORM SEWER

CATEGORY	ROADWAY	STATION	OFFSET	STATION	OFFSET	SIZE IN	LENGTH FT	204.0210 REMOVING MANHOLES EACH	204.0245.008 REMOVING STORM SEWER 18-INCH LF	204.0245.014 REMOVING STORM SEWER 24 X 38-INCH LF
1000	CTH K EB									
		30+35	RT	30+34	RT	24x38	--	--	--	20
		30+32	RT	30+32	LT	24x38	--	--	--	39
		30+34	RT			--	--	1	--	--
		32+60	RT	32+60	RT	18	--	--	18	--
		32+60	RT			--	--	1		
		34+00	RT	34+00	RT	18	--	--	17	--
		34+00	RT			--	--	1	--	--
	TOTALS:							3	35	59

3

REMOVING COVER PLATES

CATEGORY	ROADWAY	STATION	OFFSET	204.9060.S.002 REMOVING COVER PLATES LEFT IN PLACE EACH
1000	E FRONTAGE RD	3052+37	42.5' LT	1
		3052+27	1.5' LT	1
		5054+89	42.5' LT	1
	TOTAL:			3

REMOVING CONCRETE MEDIAN SLOPED NOSE

CATEGORY	ROADWAY	STATION	OFFSET	204.9165.S REMOVING CONCRETE MEDIAN SLOPED NOSE SF
1000	E FRONTAGE RD	5055+81	34' LT	159
	TOTAL:			159

MAILBOXES

CATEGORY	STAGE	ROADWAY	SPV.0060.502 REMOVE AND RE-INSTALL MAILBOXES EACH	SPV.0105.104 TEMPORARY MAIL BOXES LS
1000	1	CTH K - WEST END	7	0.5
	2	CTH K - EAST END	6	0.5
			13	1

REMOVING BOLLARDS

CATEGORY	ROADWAY	LOCATION	OFFSET	204.9060.S REMOVING WOODEN BOLLARDS EACH
1000	CAROL RD	NE & NW QUADRANT WITH CTH K	LT/RT	4
	TOTAL:			4

FINISHING ROADWAY PROJECT ID 1030-11-71

CATEGORY	PROJECT	213.0100.002 FINISHING ROADWAY (1030-11-71) EACH
1000	1030-11-71	1
	TOTAL:	1

SAWCUTTING ITEMS

CATEGORY	ROADWAY	STATION	TO STATION	OFFSET	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
1000	CTH K	11+50.00			--	26
	CTH K	31+22.22	31+39.37	68.50' RT	16	--
	CTH K	34+36.49	34+53.49	59.48' RT	17	--
	CTH K	34+79.42	34+94.42	80.34' RT	15	--
	CTH K	35+73.32	35+85.32	64.00' RT	12	--
	CTH K	39+20.70	41+55.47	12.38' RT - 74.92' LT	354	--
	CTH K	45+54.46	46+75.00	12.37' RT - 9.93' LT	339	115
	SE RAMP	44+65.88	44+85.16	45.53' RT - 58.04' RT	27	--
	CTH K	48+35.55	48+65.59	75.00' LT	30	--
	E FRONTAGE RD	3050+60.39			20	--
	E FRONTAGE RD	5055+10.00	5055+60.70	26.00' RT	--	48
	E FRONTAGE RD	5055+60.70	5055+60.70	26.0' RT - 22.0' LT	--	56
	CTH K	54+01.70	54+21.24	81.50' RT	19	--
	CTH K	56+27.99	56+33.00	78.54 RT	22	--
	CAROL RD	11+43.00		11.0' RT - 11.0' LT	22	--
	CTH K	66+02.73	66+14.54	70.24' LT	12	--
	CTH K	68+37.69	68+50.77	70.45' LT	13	--
	CTH K	74+99.84	75+13.47	76.36 LT	14	--
	CTH K	76+00.00		20.0' RT - 20.0' LT	14	22
	TOTAL:				946	267

Division	From / To Station	Location	Common Excavation (1) (item # 205.0100)		Salvaged / Unusable Pavement Material (4)	Available Material (5)	Expanded EBS Backfill (6)	Unexpanded Fill	Expanded Fill (7)	Mass Ordinate + / - (8)	Waste	Borrow
			Cut (2)	EBS Excavation (3)			Factor 1.25		Factor 1.25			
Division 1												
CTH K - West	11+50.4/37+99		30,378	938	3,235	27,143	1,173	12,769	15,961	10,009	10,009	0
CTH K Transition - West	338+50/341+00		659	0	0	659	0	163	204	455	455	0
NW West Frontage Rd	4053+74.38/4056+50		373	0	0	373	0	280	350	23	23	0
SW West Frontage Rd	2055+00/2058+99.38		727	0	0	727	0	170	213	515	515	0
Division 1 Subtotal			32,137	938	3,235	28,902	1,173	13,382	16,728	11,002	11,002	0
Division 2												
CTH K EB R/L - East	45+50/52+27.4		2,710	214	0	2,710	268	1,368	1,710	733	733	0
CTH K WB R/L - East	52+18.84/76+00		16,361	463	0	16,361	579	4,189	5,236	10,546	10,546	0
NE East Frontage Rd	5052+20/5055+50		1,612	0	0	1,612	0	283	354	1,258	1,258	0
SE East Frontage Rd	3051+00/3055+90		1,844	0	0	1,844	0	692	865	979	979	0
Carol Rd	10+25/11+43.27		402	0	0	402	0	56	70	332	332	0
Sanitary & Water Main - CTH K East			0	924	0	0	0	0	0	0	0	0
Division 2 Subtotal			22,929	1,601	0	22,929	846	6,588	8,235	13,848	13,848	0
Grand Total			55,066	2,539	3,235	51,831	2,019	19,970	24,963	24,850	24,850	0
		Total Common Exc		57,605								

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
2) Salvaged/Unsuable Pavement Material is included in Cut.
3) EBS Excavation to be backfilled with Cut material.
4) Salvaged/Unusable Pavement Material
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
6) Expanded EBS Backfill - This is to be filled with Cut material. EBS Backfill Factor = 1.25.
7) Expanded Fill. Factor = 1.25
Depending on selections: **Expanded Fill = (Unexpanded Fill) * Fill Factor**
8) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

BASE AGGREGATE

CATEGORY	ROADWAY	STATION	TO STATION	305.0110 BASE AGGREGATE DENSE 3/4 INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4 INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	645.0220 GEOGRID TYPE SR SY
1000							
STAGE 1A	CTH K	11+50.00	26+25.18	144	10554	4227	10013
	CTH K	12+82	RT	89	--	--	--
	CTH K	21+00	RT	301	--	--	--
	CTH K	25+59.07	33+00.00	31	2780	3101	7346
	CTH K	26+92	RT	44	--	--	--
	CTH K	31+30	RT	13	--	--	--
	W FRONT RD	SW QUAD		--	242	307	726
	W FRONT RD	NW QUAD		--	264	335	793
	W FRONT RD	NE QUAD		--	261	331	785
	W FRONT RD	SE QUAD		--	306	387	918
	CTH K	33+28.62	38+00.00	--	2132	2486	5889
	CTH K	34+44	RT	8	--	--	--
	CTH K	34+88	RT	19	--	--	--
	CTH K	35+79	RT	8	--	--	--
	CTH K	38+00.00	41+55.47	--	1852	--	--
STAGE 1B	CTH K	33+00.00	33+28.62	--	133	168	398
	W FRONT RD	MEDIANS		--	239	303	717
STAGE 2A	E FRONT RD			--	358	--	--
STAGE 2B	CTH K	44+54.46	47+75.00	--	1702		
	CTH K	47+75.00	51+65.00	--	784	1986	4705
	CTH K	48+50	LT	61	--	--	--
	E FRONT RD	SW QUAD		--	218	276	654
	E FRONT RD	NW QUAD		--	190	241	570
	E FRONT RD	NE QUAD		16	992	655	1551
	E FRONT RD	SE QUAD		28	1,252	984	2,331
	CTH K (SANITARY & WATER BACKFILL)			--	--	1848	1386
			SUBTOTAL:	762	24,259	17,635	38,782

CONTINUED NEXT COLUMN

BASE AGGREGATE (CONT.)

CATEGORY	ROADWAY	STATION	TO STATION	305.0110 BASE AGGREGATE DENSE 3/4 INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4 INCH TON	312.0110 SELECT CRUSHED MATERIAL TON	645.0220 GEOGRID TYPE SR SY
1000							
STAGE 2B	CTH K	52+06.51	59+98.43	--	3,240	4,026	9,537
	CTH K	54+13	RT	42	--	--	--
	CTH K	56+37	RT	45	--	--	--
	CTH K	59+87.08	76+00.00	170	6,071	5,327	12,618
	CTH K	66+21	LT	22	--	--	--
	CTH K	68+40	LT	30	--	--	--
	CTH K	70+76	RT	35	--	--	--
	CTH K	74+20	LT	38	--	--	--
	CTH K	75+06	LT	22	--	--	--
	MICHELS D/W			--	546	--	--
STAGE 2C	CTH K & E FRONT RD			--	163	207	489
STAGE 2D	E FRONT RD			--	30	38	90
	E FRONT RD	3052+34.53	3055+90.00	--	214	246	584
	CTH K & E FRONT RD			--	89	113	267
	E FRONT RD	5052+18.00	5055+60.70	--	613	628	1,488
			SUBTOTAL:	404	10,966	10,585	25,073
				1,166	35,225	28,220	63,855

QMP BASE AGGREGATE

CATEGORY	PROJECT	371.1000.S QMP BASE AGGREGATE DENSE 1 1/4 INCH COMPACTION TON
1000	1030-11-71	35225
		35225

WATER

CATEGORY	LOCATION	624.0100 WATER MGAL
1000	PROJECT - BASE AGGREGATE (COMPACTION)	528
	PROJECT - EXCAVATION (DUST CONTROL)	115
	TOTAL:	643

CONCRETE ITEMS

CATEGORY	ROADWAY	STATION	TO STATION	415.0095 CONCRETE PAVEMENT 9 1/2-INCH SY	415.0105 CONCRETE PAVEMENT 10 1/2-INCH SY	416.0160 CONCRETE DRIVEWAY 6-INCH SY	416.1010 CONCRETE SURFACE DRAINS CY	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.2400 CONCRETE SAFETY ISLANDS SF	620.0100 CONCRETE CORRUGATED MEDIAN SF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF
1000											
STAGE 1A	CTH K	21+30.00		--	--	--	--	--	--	--	70
	CTH K	24+00.00		--	--	--	4	--	--	--	
	CTH K	25+48.12	33+00.00	--	6037	--	4	2834	--	--	153
	W FRONT RD			2655	--	--	--	--	1624	--	405
	CTH K	33+58.38	38+00.00	--	4,428	--	4	--	--	--	--
	CTH K	33+58.38	40+39.92	MEDIANS	--	--	--	8576	--	--	300
	CTH K	31+30.00 EB		--	--	12	--	--	--	--	--
	CTH K	34+44.00 EB		--	--	12	--	--	--	--	--
	CTH K	34+88.00 EB		--	--	11		--	--	--	--
	CTH K	35+79.00 EB		--	--	9	--	--	--	--	--
	E FRONT RD	5055+81		--	--	--	--	--	--	--	159
STAGE 1B											
	CTH K	33+00.00	33+28.38	--	306	--	--	--	--	--	--
	W FRONT RD			93	--	--	--	--	--	--	--
STAGE 2B	CTH K	47+30.00	51+21.86	--	--	--	--	2719	--	609	115
	CTH K	47+75.00	52+27.40	--	3835	--	--	1944	--	--	196
	E FRONT RD	SW QUAD		510	--	--	--	--	413	--	99
	E FRONT RD	NW QUAD		437	--	--	--	--	535	--	100
	E FRONT RD	NE QUAD		1394	--	--		--	547	--	108
	E FRONT RD	SE QUAD		1835	--	--	3	--	338	--	290
	CTH K	52+18.84	59+98.43	--	7827	--	11	4231	--	560	382
	CTH K	54+09.00 EB		--	--	12	--	--	--	--	--
	CTH K	56+34.00 EB		--	--	12	--	--	--	--	--
	CTH K	65+35.35		--	--	--	--	--	--	--	99
STAGE 2C	CTH K	51+57.29 EB	51+75.00 EB	--	135	--	--	--	--	--	--
	E FRONT RD			356	--	--	--	--	--	--	--
STAGE 2D	CTH K	51+75.00 EB	52+27.4	--	267	--	--	--	--	--	--
	E FRONT RD			1054	--	--	--	4411	--	--	419
				8,334	22,835	68	26	24,715	3,457	1,169	2,895

ASPHALT ITEMS

CATEGORY	ROADWAY	STATION	TO STATION	455.0605 TACK COAT GAL	460.7223 HMA PAVEMENT 3 HT 58-28 S TON	460.7224 HMA PAVEMENT 4 HT 58-28 S TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0125 ASPHALTIC SURFACE TEMPORARY TON
1000								
STAGE 1A	CTH K	11+50.00	27+25.00	1,078	2,965	988	--	--
		38+00.00	41+55.47	--	--	--	--	519
	CTH K	26+99.00 EB	--	--	--	--	35	--
	CTH K	31+30.00 EB	--	--	--	--	11	--
	CTH K	34+44.00 EB	--	--	--	--	6	--
	CTH K	34+88.00 EB	--	--	--	--	15	--
	CTH K	35+79.00 EB	--	--	--	--	6	--
	E FRONT RD	5055+81	--	--	--	--	--	12
STAGE 2A	E FRONT RD		--	--	--	--	--	146
STAGE 2B	CTH K	44+54.46	47+75.00	--	--	--	--	600
	CTH K	54+09.00 EB	--	--	--	--	33	--
	CTH K	56+34.00 EB	--	--	--	--	35	--
	CTH K	59+87.08	76+00.00	1,228	3,376	1,125		
	CTH K	66+22.00 WB	--	--	--	--	17	--
	CTH K	68+33.00 WB	--	--	--	--	21	--
STAGE 2C	CTH K	51+57.29 EB	51+75.00	--	--	--	--	--
				2,306	6,341	2,113	179	1,277

PAVEMENT REPAIR

CATEGORY	LOCATION	495.1000.S COLD PATCH TON
1000	UNDISTRIBUTED	20
	TOTAL:	20

CONCRETE PAVEMENT JOINT LAYOUT

CATEGORY	LOCATION	SPV.0105.003 CONCRETE PAVEMENT JOINT LAYOUT LS
1000	CTH K & FRONTAGE ROADS	1
	TOTAL:	1

CONCRETE CURB & GUTTER ITEMS

CATEGORY	ROADWAY	STATION	TO STATION	LOCATION	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF
1000						
STAGE 1A	CTH K	24+00.00	25+59.07	LT	--	144
	CTH K	21+30.00	26+25.18	MEDIAN	--	911
	CTH K	25+59.07	32+50.16	MEDIAN	1304	--
	CTH K	30+46.66	32+66.66	MEDIAN	412	--
	CTH K	25+59.07	31+63.64	LT	605	--
	E FRONT RD	SW QUAD			149	--
	E FRONT RD	NW QUAD			175	--
	E FRONT RD	NE QUAD			159	--
	E FRONT RD	SE QUAD			191	--
	E FRONT RD	5055+81	5055+88	LT	9	--
	E FRONT RD	5055+86	5055+94	LT	8	--
	CTH K	34+20.98	38+00	LT	242	--
	CTH K	34+25.17	38+00	RT	375	--
	CTH K	33+58.38	37+28.37	MEDIAN	713	--
	CTH K	33+74.86	38+00.00	MEDIAN	838	--
	CTH K	38+00.00	39+12.66	RT	--	106
	CTH K	38+00.00	IH 94	LT	--	401
	CTH K	38+00.00	40+39.92	MEDIAN	--	471
STAGE 1B	W FRONT RD	2055+00.00	2058+95.00		773	--
	W FRONT RD	4053+95.00	4055+25.00		610	--
STAGE 2B	CTH K	44+56.44	47+75	RT	--	303
	CTH K	45+18.23	47+75	LT	--	269
	CTH K	MEDIAN NOSE			--	89
	CTH K	47+30.00	51+21.86		563	--
	CTH K	47+75.00	50+56.48	LT	182	104
	CTH K	47+75.00	50+54.70	RT	280	--
	E FRONT RD	SW QUAD			174	--
	E FRONT RD	3050+60.39	3055+88.33	MEDIANS	794	--
	E FRONT RD	NW QUAD			127	--
	E FRONT RD	59+98.43		RT	770	--
	E FRONT RD	E FRONT RD	CAROL RD	LT	644	--
	CTH K	52+40.71	54+61.09	MEDIAN	412	--
	CTH K	53+33.99	58+83.94	MEDIAN	1068	--
	CAROL RD				150	--
	CTH K	59+30.42	59+98.43	MEDIAN	120	--
	CTH K	59+87.08	65+35.35	MEDIAN	--	1080
				SUBTOTAL:	11,847	3,878

CONTINUED NEXT COLUMN

CONCRETE CURB & GUTTER ITEMS (CONT.)

CATEGORY	ROADWAY	STATION	TO STATION	LOCATION	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF
STAGE 2D	E FRONT RD	3048+78.00	3050+60.93		--	179
	E FRONT RD	3052+34.53	3055+80.33		372	--
	E FRONT RD	3054+00.00	3055+88.33		175	--
	E FRONT RD	5052+31.91	5053+49.84		111	--
	E FRONT RD	5052+35.14	5055+00.00		511	--
	E FRONT RD	5054+20.82	5055+55.00		268	--
				SUBTOTAL:	1,437	179
				TOTAL:	13,284	4,057

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CULVERTS

CATEGORY							1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000		
							520.3318	520.3324	520.3330	520.3336	520.1018	520.1024	520.1030	520.1036	523.0419	523.0424	523.0429	504.0900	523.0519	523.0524	523.0529	*
								CULVERT PIPE CLASS III-A				APRON ENDWALL FOR CULVERT PIPE			CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL			CONCRETE MASONRY	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE			**
INLET STATION	INLET OFFSET	INLET ELEV.	DISCH STATION	DISCH OFFSET	DISCH ELEV.	SLOPE	18-INCH LF	24-INCH LF	30-INCH EACH	36-INCH EACH	18-INCH EACH	24-INCH EACH	30-INCH EACH	36-INCH EACH	CLASS HE-IV 19X30-INCH LF	CLASS HE-IV 24X38-INCH LF	CLASS HE-IV 29X45-INCH LF	ENDWALLS (CY)	HE 19X30-INCH EACH	HE 24X38-INCH EACH	HE 29X45-INCH EACH	JOINT TIES EACH	COMMENTS
19+47.5EB	53.3' LT	736.82	20+08.9EB	99.5' RT	736.31	0.31%	---	---	---	---	---	---	---	---	165	---	---	---	2	---	---	12	
62+25.9EB	90.6' LT	757.03	62+36.3EB	58.2' RT	756.56	0.32%	---	---	---	---	---	---	---	---	---	149	---	3.8	---	---	---	12	
62+32.2EB	90.3' LT	757.03	62+42.9EB	58.2' RT	756.56	0.32%	---	---	---	---	---	---	---	---	---	149	---	---	---	---	---	12	
SIDE ROADS AND PRIVATE ENTRANCES																							
12+95.5EB	56.4' RT	732.47	12+46.2EB	52.5' RT	732.31	0.35%	---	---	---	---	---	---	---	---	46	---	---	---	2	---	---	12	
21+30.0EB	85.8' RT	737.65	20+57.7EB	83.8' RT	736.60	1.36%	---	---	---	77	---	---	---	2	---	---	---	---	---	---	---	12	
27+06.4EB	52.8' RT	761.39	26+64.4EB	57.1' RT	758.73	6.33%	42	---	---	---	2	---	---	---	---	---	---	---	---	---	---	---	
11+03.7	29.0' LT	761.78	10+95.4	32.5' RT	761.27	0.88%	---	---	---	---	---	---	---	---	---	---	58	---	---	---	2	12	CAROL ROAD
66+26.9WB	56.7' LT	762.25	65+98.3WB	56.9' LT	761.90	1.21%	---	---	---	---	---	---	---	---	---	29	---	---	---	2	---	12	
68+58.1WB	54.7' LT	765.13	68+23.3WB	54.8' LT	764.74	1.11%	---	---	35	---	---	---	2	---	---	---	---	---	---	---	---	12	
74+36.2WB	59.8' LT	774.78	73+94.7WB	64.0' LT	773.13	3.93%	---	42	---	---	---	2	---	---	---	---	---	---	---	---	---	---	
75+26.9WB	55.2' LT	777.73	74+80.8WB	57.2' LT	776.24	3.17%	---	47	---	---	---	2	---	---	---	---	---	---	---	---	---	---	
TOTAL							42	89	35	77	2	4	2	2	211	327	58	3.8	4	2	2	96	

* FOR INFORMATION ONLY

**ADDITIONAL QUANTITIES SHOWN ELSEWHERE - SEE STORM SEWER TABLES

1. STATIONS AND OFFSETS ARE TO THE END OF PIPE. FIELD VERIFY CULVERT PIPE LOCATIONS AND ELEVATIONS PRIOR TO INSTALLATION.
2. JOINT TIES FOR CONCRETE PIPE SHALL BE PROVIDED AT ALL REINFORCED CONCRETE APRON ENDWALL LOCATIONS. APRON ENDWALLS SHALL BE TIED FOR THE LAST TWO JOINTS AT PIPE ENDS. THE COST OF THESE TIES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE REINFORCED CONCRETE PIPE.
3. PIPE LENGTHS DO NOT INCLUDE LAYING LENGTH OF ENDWALLS.

COVER PLATES TEMPORARY, CULVERT MARKERS AND PIPE GRATES

CATEGORY	LOCATION	INLET STATION	INLET OFFSET	DISCH STATION	DISCH OFFSET	611.8120.S COVER PLATES TEMPORARY EACH	** 611.9800.S PIPE GRATES EACH	** 633.5200 MARKERS CULVERT ENDS EACH
1000	CTH K	19+47.0EB	53.2' LT	19+90.2EB	79.8' RT	---	2	2
		51+49.9	172.6' LT			1	---	---
		51+43.1	171.0' LT			1	---	---
		62+25.9EB	90.6' LT	62+36.3EB	58.2' RT	---	---	2
		62+32.2EB	90.3' LT	62+42.9EB	58.2' RT		---	2
		2058+32.5	30.5' LT			1	---	---
		2058+16.2	36.6' RT			1	---	---
		2058+07.5	1.5' LT			1	---	---
		2058+17.5	1.5' LT			1	---	---
		4054+67.5	30.5' LT			1	---	---
		4054+57.5	30.5' LT			1	---	---
		4054+90.6	1.5' LT			1	---	---
		4054+80.6	1.5' LT			1	---	---
	EAST FRONTAGE RD	3049+01	1.0' LT			1	---	---
		5055+41	16.6' LT			1	---	---
		5055+51	1.0' LT			1	---	---
	SIDE ROADS AND PRIVATE ENTRANCES	11+04.4	23.2' LT	11+00.6	25.4' RT	---	---	2
	TOTAL					13	2	8

**ADDITIONAL QUANTITIES SHOWN ELSEWHERE - SEE STORM SEWER TABLES

ADJUSTING INLET COVERS

CATEGORY	ROADWAY	STATION	OFFSET	611.8115 ADJUSTING INLET COVERS EACH
1000	EAST FRONTAGE ROAD			
		5055+40	16.6' LT	1
		5055+50	1.9' LT	1
TOTAL				2

PIPE UNDERDRAIN

CATEGORY	ROADWAY	310.0115 BASE AGGREGATE OPEN-GRADED CY	612.0106 PIPE UNDERDRAIN 6-INCH LF	612.0700 DRAIN TILE EXPLORATION LF	645.0111 GEOTEXTILE FABRIC TYPE DF SCHEDULE A SY
1000	CTH K - EAST END	7	200	--	1,000
	WEST FRONTAGE ROAD - SOUTH	11	290	--	1,450
	WEST FRONTAGE ROAD - NORTH	8	225	--	1,125
	EAST FRONTAGE ROAD - SOUTH	4	100	--	500
	UNDISTRIBUTED	--	--	2,000	--
	TOTAL	30	815	2,000	4,075

MOBILIZATION

CATEGORY		619.1000 MOBILIZATION EACH
1000	PROJECT ID 1030-11-71	1.00
	TOTAL:	1.00

MAINTENANCE AND REPAIR OF HAUL ROADS

CATEGORY	ROADWAY	618.0100.002 MAINTENANCE AND REPAIR OF HAUL ROADS (1030-11-71) EACH
1000	PROJECT ID 1030-11-71	1
	TOTAL:	1

LANDMARK REFERENCE MONUMENTS

CATEGORY		STATION	OFFSET	621.0100 LANDMARK REFERENCE MONUMENTS EACH
1000	CTH K			
	PI 20	020+37	133.27' RT	1
	PC 25	053+53	0.00'	1
	PT 25	082+27	0.00'	1
	TOTAL:			3

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FENCE SAFETY

CATEGORY	LOCATION	616.0700.S FENCE SAFETY LF
1000	UNDISTRIBUTED	5000
	TOTAL:	5000

DUST CONTROL SURFACE TREATMENT

CATEGORY	LOCATION	623.0200 DUST CONTROL SURFACE TREATMENT SY
1000	PROJECT	63855
	TOTAL:	63855

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EROSION CONTROL ITEMS

CATEGORY	ROADWAY	STATION TO STATION	606.0200 RIPRAP MEDIUM CY	628.1104 EROSION BALES EACH	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	628.7005 INLET PROTECTION TYPE A EACH	628.7020 INLET PROTECTION TYPE D EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	645.0120 GEOTEXTILE FABRIC TYPE HR SY	SPV.0060.030 SILT FENCE DRAINAGE OUTLET, EROSION CONTROL FILTER BAGS EACH
1000	CTH K														
		11+50 - 41+50	50	12	1,926	1,926	---	---	24,648	22	22	238	4	116	1
		44+55 - 76+00	14	16	1,664	1,664	---	---	19,116	28	26	125	5	39	---
	WEST FRONTAGE ROAD														
		2055+00 - 2059+00	---	---	---	---	---	---	1,353	11	11	---	---	---	---
		4053+75 - 4056+92	---	---	---	---	---	---	906	9	7	---	---	---	---
	EAST FRONTAGE ROAD														
		3050+60 - 3055+91	4	1	286	286	---	---	2,530	9	9	---	---	10	---
		5052+18 - 5055+61	---	---	---	---	---	---	---	7	7	---	---	---	---
	CAROL ROAD														
		10+00 - 11+43	9	---	---	---	---	---	---	---	---	---	1	17	---
	SUBTOTAL		77	29	3,876	3,876	---	---	48,554	86	82	363	10	182	1
	UNDISTRIBUTED		19	7	969	969	6	6	12,138	22	21	91	3	46	---
	TOTALS		96	36	4,845	4,845	6	6	60,692	108	103	453	13	228	1

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RESTORATION ITEMS

CATEGORY	ROADWAY	STATION TO STATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0200 SEEDING TEMPORARY LB
6000	CTH K						
		11+50 - 41+50	24,648	24,648	16	444	---
		44+55 - 76+00	19,116	19,116	12	344	---
	WEST FRONTAGE ROAD						
		2055+00 - 2059+00	1,353	1,353	0.9	24	---
		4053+75 - 4056+92	906	906	0.6	16	---
	EAST FRONTAGE ROAD						
		3050+60 - 3055+91	2,530	2,530	1.6	46	---
	MICHELS GARAGE						
		DRIVEWAYS	116	116	0.03	1	---
	SUBTOTAL		48,669	48,669	31	875	---
	UNDISTRIBUTED		---	---	---	---	219
	TOTALS		48,669	48,669	31	875	219

PERMANENT LEVEL SPREADER ITEMS

CATEGORY	ROADWAY	STATION	606.0100 RIPRAP LIGHT CY	628.1920 CLEANING SEDIMENT BASINS CY	645.0130 GEOTEXTILE FABRIC TYPE R SY
1000	CTH K	20+00, RT	22	2	67
		60+50, LT	22	2	67
		62+50, RT	13	2	39
	TOTALS		57	6	172

TRACKING PADS

CATEGORY	ROADWAY	628.7560 TRACKING PADS EACH
1000	CTH K	4
	TOTALS:	4

EROSION CONTROL FILTER BAGS

CATEGORY	ROADWAY	SPV.0060.005 EROSION CONTROL FILTER BAGS EACH
1000	UNDISTRIBUTED	25
	TOTALS	25

STORM SEWER

CATEGORY 1000 STRUCTURE NUMBER	STATION	OFFSET	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.3003 INLETS 3-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0606 INLET COVERS TYPE B EACH	611.0624 INLET COVERS TYPE H EACH	611.0642 INLET COVERS TYPE MS EACH	NOTE 1 RIM OR FLANGE ELEV	NOTE 2 STR DEPTH FEET	520.8000 CONCRETE COLLARS FOR PIPE EACH	COMMENTS
601A	34+30.1	41.5' RT	---	---	---	---	1	---	---	---	1	---	780.80	4.1	---	---
601B	33+87.0	1.8' LT	---	---	---	---	1	---	---	---	1	---	780.65	4.5	---	---
601C	33+87.0	8.5' LT	---	---	---	---	1	---	---	---	1	---	780.43	4.4	---	---
601D	33+70.0	23.5' LT	---	---	---	---	1	---	---	---	1	---	780.34	4.5	---	---
601E	33+70.0	34.5' LT	---	---	---	---	1	---	---	---	1	---	780.47	4.7	---	---
601F	34+25.6	83.4' LT	---	---	---	---	1	---	---	---	1	---	780.86	4.7	---	---
601	33+70.0	54.0' LT	1	---	---	---	---	---	1	---	---	---	780.53	5.2	---	---
602A	4055+00.6	75.7' LT	---	---	---	---	---	1	---	---	---	1	776.47	2.9	---	---
602B	4054+76.2	64.1' LT	---	---	---	---	1	---	---	---	1	---	778.41	5.0	---	---
602C	4054+15.0	58.0' LT	---	---	---	---	1	---	---	---	1	---	778.78	3.9	---	---
602D	4054+15.0	51.9' LT	---	---	---	---	1	---	---	---	1	---	778.85	4.0	---	---
602E	4054+67.5	30.5' LT	---	---	---	---	1	---	---	---	1	---	778.87	5.8	---	---
602F	4054+57.5	30.5' LT	---	---	---	---	1	---	---	---	1	---	778.87	5.9	---	---
602G	4054+90.6	1.5' LT	---	---	---	---	1	---	---	---	1	---	779.43	4.0	---	---
602H	4054+80.6	1.5' LT	---	---	---	---	1	---	---	---	1	---	779.42	4.1	---	---
602I	4054+98.4	31.8' RT	---	---	---	---	---	1	---	---	---	1	777.04	3.4	---	---
602K	4054+75.2	24.2' RT	---	---	---	---	1	---	---	---	1	---	779.01	5.6	---	---
602J	4054+65.3	25.5' RT	---	---	---	---	1	---	---	---	1	---	779.01	6.0	---	---
602	4054+50.0	6' RT	---	1	---	---	---	---	1	---	---	---	779.48	7.4	---	---
603A	2058+91.9	97.8' LT	---	---	---	---	1	---	---	---	1	---	778.47	4.3	---	---
603B	2058+86.2	98.3' LT	---	---	---	---	1	---	---	---	1	---	778.36	4.2	---	---
603D	2058+13.6	58.3' LT	---	---	---	---	1	---	---	---	1	---	778.22	4.1	---	---
603E	2058+42.5	30.5' LT	---	---	---	---	1	---	---	---	1	---	778.71	4.9	---	---
603F	2058+32.5	30.5' LT	---	---	---	---	1	---	---	---	1	---	778.71	5.0	---	---
603G	2058+16.2	36.6' RT	---	---	---	---	1	---	---	---	1	---	778.65	3.6	---	---
603H	2058+06.4	34.7' RT	---	---	---	---	1	---	---	---	1	---	778.65	4.0	---	---
603I	2058+07.5	1.5' LT	---	---	---	---	1	---	---	---	1	---	779.30	5.3	---	---
603J	2058+17.5	1.5' LT	---	1	---	---	---	---	---	---	1	---	779.21	5.9	---	SEE NOTE 4
603K	2058+53.5	25.7' RT	---	---	---	---	1	---	---	---	1	---	779.37	3.6	---	---
603L	2058+54.1	20.0' RT	---	---	---	---	1	---	---	---	1	---	779.49	3.8	---	---
603	2058+50.0	6' RT	---	1	---	---	---	---	1	---	---	---	779.47	7.1	---	---
604	33+35.7	54.0' LT	---	1	---	---	---	---	1	---	---	---	780.11	8.4	---	---
605A	30+60.0	1.5' LT	---	---	---	---	1	---	---	---	1	---	775.57	3.8	---	---
605B	30+60.0	12.5' LT	---	---	---	---	1	---	---	---	1	---	775.39	3.7	---	---
605C	30+60.0	27.5'L T	---	---	---	---	1	---	---	---	1	---	775.15	3.6	---	---
605D	30+60.0	34.5' LT	---	---	---	---	1	---	---	---	1	---	775.53	4.1	---	---
605E	30+60.0	69.5' LT	---	---	---	---	1	---	---	---	1	---	775.25	3.8	---	---
605	30+60.0	54.0' LT	1	---	---	---	---	---	1	---	---	---	775.65	7.2	---	---
606A	27+50.0	7.7' LT	---	---	---	---	1	---	---	---	1	---	766.38	3.8	---	---
606B	27+50.0	34.5' LT	---	---	---	---	1	---	---	---	1	---	766.08	3.8	---	---
SUBTOTAL:			2	4	0	0	32	2	5	0	33	2			0	

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STORM SEWER (CONT.)

CATEGORY 1000 STRUCTURE NUMBER	STATION	OFFSET	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.3003 INLETS 3-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0606 INLET COVERS TYPE B EACH	611.0624 INLET COVERS TYPE H EACH	611.0642 INLET COVERS TYPE MS EACH	NOTE 1 RIM OR FLANGE ELEV	NOTE 2 STR DEPTH FEET	520.8000 CONCRETE COLLARS FOR PIPE EACH	COMMENTS
606C	27+50.0	69.5' LT	---	---	---	---	1	---	---	---	1	---	765.77	3.9	---	---
606	27+50.0	54.0' LT	1	---	---	---	---	---	1	---	---	---	766.17	7.4	---	---
607A	24+50.0	1.5' LT	---	---	---	---	1	---	---	---	1	---	754.35	5.8	---	---
607B	24+50.0	27.7' LT	---	---	---	---	1	---	---	---	1	---	753.48	5.2	---	---
607C	24+50.0	62.8' LT	---	---	---	---	1	---	---	---	1	---	751.63	3.4	1	---
607	24+50.0	47.2' LT	---	1	---	---	---	---	1	---	---	---	752.45	6.3	---	---
608	21+60.0	32.6' LT	---	1	---	---	---	---	1	---	---	---	744.47	5.5	---	---
608A	21+60.0	14.7' LT	---	1	---	---	---	---	---	---	1	---	745.34	6.4	---	SEE NOTE 4
608B	21+60.0	1.5' LT	---	1	---	---	---	---	---	---	1	---	746.28	7.4	---	SEE NOTE 4
608C	21+60.0	77.9' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---
610A	40+32.7	7.4' LT	---	---	---	---	1	---	---	---	1	---	779.86	3.2	---	---
610B	40+32.6	13.0' LT	---	---	---	---	1	---	---	---	1	---	779.86	3.2	---	---
610C	41+33.7	81.6' LT	---	---	---	---	1	---	---	---	1	---	778.87	2.8	2	---
610D	41+18.2	102.8' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---
614	45+07.0	54.0' LT	---	1	---	---	---	---	1	---	---	---	775.03	8.5	---	---
614A	45+12.0	64.4' LT	---	---	---	1	---	---	---	1	---	---	774.09	4.1	---	---
614B	44+96.9	62.3' RT	---	---	---	1	---	---	---	1	---	---	773.61	5.2	---	---
615A	48+00.0	41.5' RT	---	---	---	---	1	---	---	---	1	---	774.77	4.8	---	---
615B	48+00.0	19.0' LT	---	---	---	---	1	---	---	---	1	---	774.50	5.4	---	---
615C	48+00.0	34.5' LT	---	---	---	---	1	---	---	---	1	---	774.82	5.8	---	---
615D	47+96.0	77.5' LT	---	---	---	---	1	---	---	---	1	---	774.52	3.5	---	---
615E	46+50.1	30.1' RT	1	---	---	---	---	---	---	---	1	---	774.57	4.8	---	---
615F	47+31.4	74.1' LT	1	---	---	---	---	---	---	---	1	---	774.36	4.7	---	
615	48+00.0	54.0' LT	---	1	---	---	---	---	1	---	---	---	774.94	9.9	---	---
616A	50+50.0	77.5' LT	---	---	---	---	1	---	---	---	1	---	773.26	3.8	---	---
616B	50+54.0	27.5' LT	---	---	---	---	1	---	---	---	1	---	773.40	4.0	---	---
616C	50+54.5	33.6' LT	---	---	---	---	1	---	---	---	1	---	773.50	4.2	---	---
616	50+50.0	54.0' LT	---	1	---	---	---	---	1	---	---	---	773.70	9.7	---	---
617A	51+41.0	68.7' RT	---	---	---	---	1	---	---	---	1	---	772.19	4.0	---	---
617B	51+46.6	41.6' RT	---	---	---	---	1	---	---	---	1	---	772.70	4.8	---	---
617C	51+49.0	29.9' RT	---	---	---	---	1	---	---	---	1	---	773.01	5.2	---	---
617D	51+45.8	1.5' LT	---	---	---	---	1	---	---	---	1	---	773.12	5.7	---	---
617E	51+45.8	12.5' LT	---	---	---	---	1	---	---	---	1	---	772.94	5.6	---	---
617F	51+49.9	172.6' LT	---	---	---	---	1	---	---	---	1	---	771.89	4.0	---	---
617G	51+43.1	171.0' LT	---	---	---	---	1	---	---	---	1	---	771.79	4.0	---	---
617H	51+36.0	107.8' LT	---	---	---	---	1	---	---	---	1	---	772.33	5.2	---	---
617I	51+29.9	106.8' LT	---	---	---	---	1	---	---	---	1	---	772.32	5.2	---	---
617	51+25.0	54.0' LT	---	1	---	---	---	---	1	---	---	---	773.26	9.7	---	---
618A	52+75.0	73.6' LT	---	---	---	---	1	---	---	---	1	---	772.31	3.8	---	---
618B	52+75.0	66.8' LT	---	---	---	---	1	---	---	---	1	---	772.41	4.0	---	---
	SUBTOTAL:		3	8	0	2	25	0	7	2	29	0			3	

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STORM SEWER (CONT.)

STRUCTURE NUMBER	STATION	OFFSET	CATEGORY 1000 611.2004 MANHOLES 4-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.3003 INLETS 3-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0606 INLET COVERS TYPE B EACH	611.0624 INLET COVERS TYPE H EACH	611.0642 INLET COVERS TYPE MS EACH	NOTE 1 RIM OR FLANGE ELEV	NOTE 2 STR DEPTH FEET	520.8000 CONCRETE COLLARS FOR PIPE EACH	COMMENTS
618C	52+62.6	61.9' RT	---	---	---	---	1	---	---	---	1	---	772.04	3.5	---	---
618D	52+68.3	60.6' RT	---	---	---	---	1	---	---	---	1	---	771.97	4.0	---	---
618	52+75.0	54.0' LT	---	1	---	---	---	---	1	---	---	---	772.52	10.1	---	---
619A	54+50.0	33.5' RT	---	---	---	---	1	---	---	---	1	---	770.59	3.6	---	---
619B	54+50.0	1.5' LT	---	---	---	---	1	---	---	---	1	---	771.35	4.7	---	---
619C	54+50.0	8.5' LT	---	---	---	---	1	---	---	---	1	---	771.17	4.6	---	---
619D	54+50.0	23.5' LT	---	---	---	---	1	---	---	---	1	---	771.41	5.0	---	---
619E	54+50.0	34.5' LT	---	---	---	---	1	---	---	---	1	---	771.59	5.3	---	---
619F	54+50.0	77.5' LT	---	---	---	---	1	---	---	---	1	---	772.39	3.8	---	---
619	54+50.0	54.0' LT	---	1	---	---	---	---	1	---	---	---	771.95	10.6	---	---
620B	58+68.0	17.3' LT	---	---	---	---	1	---	---	---	1	---	766.67	4.8	---	---
620C	58+68.0	31.9' LT	---	---	---	---	1	---	---	---	1	---	766.94	5.4	---	---
620D	58+50.0	69.5' LT	---	---	---	---	1	---	---	---	1	---	767.85	3.7	---	---
620	58+57.4	54.0' LT	---	---	1	---	---	---	1	---	---	---	767.52	7.6	---	---
621	59+94.8	54.0' LT	---	1	---	---	---	---	1	---	---	---	765.56	6.3	---	---
622	60+45.9	56.6' LT	---	---	---	---	---	---	---	---	---	---	---	---	---	---
623A	63+11.4	24.5' LT	---	---	---	---	1	---	---	---	1	---	762.81	4.5	---	---
623B	62+91.5	25.4' LT	---	---	---	---	1	---	---	---	1	---	762.81	4.5	---	---
623C	63+01.5	25.0' LT	---	---	---	---	1	---	---	---	1	---	762.80	4.8	---	---
623D	62+82.5	1.5' LT	---	---	---	---	1	---	---	---	1	---	762.25	4.0	---	---
623E	62+92.5	1.5' LT	---	---	---	---	1	---	---	---	1	---	762.25	4.3	---	---
623F	62+92.5	52.3' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---
301A	3053+56.7	8.6' LT	---	---	---	---	1	---	---	---	1	---	770.41	3.1	---	---
301B	3053+57.5	1.5' LT	---	---	---	---	1	---	---	---	1	---	770.50	3.2	---	---
301C	3053+51.1	35.0' RT	---	---	---	---	---	---	---	---	---	---	---	---	---	---
EX302A	3052+37.0	42.5' LT	---	---	---	---	---	---	---	---	1	---	769.46	2.5	1	SEE NOTE 3
302C	3052+39.3	9.1' LT	---	---	---	---	1	---	---	---	1	---	769.61	3.9	---	---
302E	3052+29.4	7.8' LT	---	---	---	---	1	---	---	---	1	---	769.60	3.9	---	---
EX302E			---	---	---	---	---	---	1	---	---	---			---	SEE NOTE 3
501A	5054+88.9	26.5' LT	---	---	---	---	1	---	---	---	1	---	770.93	4.6	---	---
EX501B	5054+88.9	42.5' LT	---	---	---	---	---	---	---	---	1	---	770.51	4.3	1	SEE NOTE 3
501C	5045+92.5	9.3' LT	---	---	---	---	1	---	---	---	1	---	770.62	4.1	---	---
SUBTOTAL:			0	3	1	0	22	0	5	0	24	0			2	
TOTAL:			5	15	1	2	79	2	17	2	86	2			5	

1. RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE FOR INLET GRATES OR THE CENTER OF THE MANHOLE STRUCTURE FOR MANHOLES AT CTH K R/L.
2. STR DEPTH = RIM ELEV - INV
   9" FOR TYPE J COVERS; AND 6" FOR TYPE H COVERS
3. REMOVE COVER PLATE LEFT IN PLACE UNDER ID 1030-11-70 AND REPLACE WITH INLET COVER
4. FLAT TOP SLAB WITH CENTERED 36 3/16 X 24 1/4-INCH RECTANGULAR OPENING REQUIRED

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STORM SEWER (CONT.)

CATEGORY					608.0312	608.0315	608.0318	608.0324	608.0330	608.0336	608.0412	608.0415	608.0436	610.0419	608.3012	608.3015	522.1012	522.1015	522.1036	** 633.5200	** 611.9800.S	*	
1000					STORM SEWER PIPE REINFORCED CONCRETE										STORM SEWER PIPE		APRON END WALLS FOR CULVERT			MARKERS		**	
					CLASS III						CLASS IV			CLASS HE-IV	CLASS III-A		PIPE REINFORCED CONCRETE			CULVERT	PIPE	JOINT	
FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE (FT/FT)	12-INCH LF	15-INCH LF	18-INCH LF	24-INCH LF	30-INCH LF	36-INCH LF	12-INCH LF	15-INCH LF	36-INCH LF	19X30-INCH (LF)	12-INCH LF	15-INCH LF	12-INCH EACH	15-INCH EACH	36-INCH EACH	END EACH	GRATES EACH	TIES EACH	COMMENTS
601A	601B	776.75	776.14	0.010	---	---	---	---	---	---	61.1	---	---	---	---	---	---	---	---	---	---	---	---
601B	601C	776.14	776.08	0.009	---	---	---	---	---	---	6.7	---	---	---	---	---	---	---	---	---	---	---	---
601C	601D	776.08	775.85	0.010	---	---	---	---	---	---	22.7	---	---	---	---	---	---	---	---	---	---	---	---
601D	601E	775.85	775.74	0.010	---	---	---	---	---	---	11.0	---	---	---	---	---	---	---	---	---	---	---	---
601E	601	775.74	775.54	0.010	19.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
601F	601	776.17	775.54	0.010	---	---	---	---	---	---	62.9	---	---	---	---	---	---	---	---	---	---	---	---
601	604	775.29	774.95	0.010	---	34.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
602A	602B	773.60	773.47	0.005	---	---	---	---	---	---	27.1	---	---	---	---	---	---	---	---	---	---	---	---
602B	602E	773.46	773.29	0.005	34.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
602C	602D	774.91	774.85	0.010	---	---	---	---	---	---	6.1	---	---	---	---	---	---	---	---	---	---	---	---
602D	602F	774.85	774.37	0.010	---	---	---	---	---	---	47.6	---	---	---	---	---	---	---	---	---	---	---	---
602E	602F	773.04	772.99	0.005	---	10.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
602F	602	772.99	772.80	0.005	---	37.3	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
602G	602H	775.43	775.33	0.010	---	---	---	---	---	---	10.0	---	---	---	---	---	---	---	---	---	---	---	---
602H	602	775.33	775.02	0.010	---	---	---	---	---	---	31.5	---	---	---	---	---	---	---	---	---	---	---	---
602I	602K	773.64	773.40	0.010	---	---	---	---	---	---	---	24.4	---	---	---	---	---	---	---	---	---	---	---
602K	602J	773.40	773.30	0.010	---	10.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
602J	602	773.05	772.80	0.010	---	24.8	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
602	604	772.05	771.72	0.004	---	---	---	83.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
603A	603B	774.21	774.18	0.005	---	---	---	---	---	---	5.7	---	---	---	---	---	---	---	---	---	---	---	---
603B	603E	774.18	773.78	0.005	---	---	---	---	---	---	80.7	---	---	---	---	---	---	---	---	---	---	---	---
603D	603F	774.15	773.98	0.005	---	---	---	---	---	---	33.6	---	---	---	---	---	---	---	---	---	---	---	---
603E	603F	773.78	773.73	0.005	---	10.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
603F	603J	773.73	773.57	0.005	---	---	---	---	---	---	---	---	---	---	---	32.7	---	---	---	---	---	---	---
603G	603H	775.01	774.91	0.010	---	---	---	---	---	---	10.0	---	---	---	---	---	---	---	---	---	---	---	---
603H	603I	774.66	774.30	0.010	---	---	---	---	---	---	---	36.2	---	---	---	---	---	---	---	---	---	---	---
603I	603J	774.05	773.95	0.010	---	---	10.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
603J	603	773.32	772.85	0.014	---	---	33.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
603K	603L	775.74	775.68	0.011	---	---	---	---	---	---	5.7	---	---	---	---	---	---	---	---	---	---	---	---
603L	603	775.68	775.53	0.010	---	---	---	---	---	---	14.6	---	---	---	---	---	---	---	---	---	---	---	---
603	604	772.35	771.71	0.005	---	---	---	127.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
604	605	771.71	768.41	0.012	---	---	---	275.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
605A	605B	771.78	771.67	0.010	---	---	---	---	---	---	11.0	---	---	---	---	---	---	---	---	---	---	---	---
605B	605C	771.67	771.52	0.010	---	---	---	---	---	---	15.0	---	---	---	---	---	---	---	---	---	---	---	---
605C	605D	771.52	771.45	0.010	---	---	---	---	---	---	7.0	---	---	---	---	---	---	---	---	---	---	---	---
605D	605	771.45	771.25	0.010	---	---	---	---	---	---	19.5	---	---	---	---	---	---	---	---	---	---	---	---
605E	605	771.41	771.25	0.010	---	---	---	---	---	---	15.5	---	---	---	---	---	---	---	---	---	---	---	---
605	606	768.41	758.80	0.031	---	---	---	310.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
606A	606B	762.56	762.30	0.010	---	---	---	---	---	---	26.8	---	---	---	---	---	---	---	---	---	---	---	---
606B	606	762.30	762.10	0.010	---	---	---	---	---	---	19.5	---	---	---	---	---	---	---	---	---	---	---	---
SUBTOTAL:					54	126	43	797	0	0	551	61	0	0	0	33	0	0	0	0	0	0	

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STORM SEWER (CONT.)

CATEGORY 1000					608.0312	608.0315	608.0318	608.0324	608.0330	608.0336	608.0412	608.0415	608.0436	610.0419	608.3012	608.3015	522.1012	522.1015	522.1036	** 633.5200	** 611.9800.S	* **	
					STORM SEWER PIPE REINFORCED CONCRETE CLASS III						STORM SEWER PIPE REINFORCED CONCRETE CLASS IV			CLASS HE-IV	STORM SEWER PIPE CLASS III-A		APRON END WALLS FOR CULVERT PIPE REINFORCED CONCRETE			MARKERS CULVERT END	PIPE GRATES	JOINT TIES	
FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE (FT/FT)	12-INCH LF	15-INCH LF	18-INCH LF	24-INCH LF	30-INCH LF	36-INCH LF	12-INCH LF	15-INCH LF	36-INCH LF	19X30-INCH (LF)	12-INCH LF	15-INCH LF	12-INCH EACH	15-INCH EACH	36-INCH EACH	EACH	EACH	EACH	COMMENTS
606C	606	761.91	761.75	0.010	---	---	---	---	---	---	15.5	---	---	---	---	---	---	---	---	---	---	---	---
606	607	758.80	746.15	0.043	---	---	---	293.7	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
607A	607B	748.51	748.24	0.010	---	---	---	---	---	---	---	---	---	---	26.2	---	---	---	---	---	---	---	---
607B	607	748.24	748.05	0.010	19.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
607C	607	748.21	748.05	0.010	---	---	---	---	---	---	15.6	---	---	---	---	---	---	---	---	---	---	---	---
607	608	746.15	739.11	0.025	---	---	---	---	---	---	---	---	---	281.6	---	---	---	---	---	---	---	---	---
608	608A	739.01	738.92	0.005	---	---	---	---	---	---	---	---	17.9	---	---	---	---	---	---	---	---	---	---
608A	608B	738.92	738.85	0.005	---	---	---	---	---	---	---	---	13.2	---	---	---	---	---	---	---	---	---	---
608B	608C	738.85	738.27	0.007	---	---	---	---	---	79.4	---	---	---	---	---	---	---	---	---	---	---	---	---
608C	OUTLET	728.27	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1	6	---
610A	610B	776.67	776.65	0.004	---	---	---	---	---	---	5.6	---	---	---	---	---	---	---	---	---	---	---	---
610B	610C	776.65	776.11	0.004	---	---	---	---	---	---	123.1	---	---	---	---	---	---	---	---	---	---	---	---
610C	610D	776.11	776.00	0.004	---	---	---	---	---	---	26.4	---	---	---	---	---	---	---	---	---	---	---	---
610D	OUTLET	776.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	1	6	---
614	615	766.55	765.51	0.004	---	---	---	296.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
614A	614	770.09	769.97	0.010	---	---	---	---	---	---	11.6	---	---	---	---	---	---	---	---	---	---	---	---
614B	614	769.61	768.44	0.010	---	---	---	---	---	---	116.7	---	---	---	---	---	---	---	---	---	---	---	---
615A	615B	769.75	769.15	0.010	---	---	---	---	---	---	60.5	---	---	---	---	---	---	---	---	---	---	---	---
615B	615C	769.15	768.99	0.010	---	---	---	---	---	---	15.5	---	---	---	---	---	---	---	---	---	---	---	---
615C	615	768.99	768.80	0.010	19.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
615D	615	770.71	769.47	0.010	---	---	---	---	---	---	23.8	---	---	---	---	---	---	---	---	---	---	---	---
615E	615A	771.24	769.75	0.010	---	---	---	---	---	---	149.4	---	---	---	---	---	---	---	---	---	---	---	---
615F	615D	770.36	769.71	0.010	---	---	---	---	---	---	65.3	---	---	---	---	---	---	---	---	---	---	---	---
615	616	765.01	764.01	0.004	---	---	---	---	250.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
616A	616	769.45	769.22	0.010	---	---	---	---	---	---	23.5	---	---	---	---	---	---	---	---	---	---	---	---
616B	616C	769.39	769.33	0.010	---	---	---	---	---	---	6.1	---	---	---	---	---	---	---	---	---	---	---	---
616C	616	769.33	769.12	0.010	---	---	---	---	---	---	20.9	---	---	---	---	---	---	---	---	---	---	---	---
616	617	764.01	763.67	0.005	---	---	---	---	75.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
617A	617B	768.18	767.90	0.010	---	---	---	---	---	---	27.6	---	---	---	---	---	---	---	---	---	---	---	---
617B	617C	767.90	767.78	0.010	---	---	---	---	---	---	12.0	---	---	---	---	---	---	---	---	---	---	---	---
617C	617D	767.78	767.46	0.010	31.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
617D	617E	767.46	767.35	0.010	---	---	---	---	---	---	---	---	---	---	11.0	---	---	---	---	---	---	---	---
617E	617	767.35	766.89	0.010	46.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
617F	617G	767.89	767.82	0.010	---	---	---	---	---	---	7.0	---	---	---	---	---	---	---	---	---	---	---	---
617G	617H	767.82	767.18	0.010	---	---	---	---	---	---	63.6	---	---	---	---	---	---	---	---	---	---	---	---
617H	617I	767.18	767.12	0.010	---	---	---	---	---	---	---	---	---	---	6.1	---	---	---	---	---	---	---	---
617I	617	767.12	766.59	0.010	53.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
617	618	763.60	762.47	0.008	---	---	---	---	150.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---
618A	618B	768.53	768.46	0.010	---	---	---	---	---	---	6.8	---	---	---	---	---	---	---	---	---	---	---	---
618B	618	768.46	768.33	0.010	---	---	---	---	---	---	12.8	---	---	---	---	---	---	---	---	---	---	---	---
SUBTOTAL:					170	0	0	590	475	79	809	0	31	282	43	0	1	0	1	2	2	12	

CONTINUED ON NEXT PAGE

STORM SEWER (CONT.)

CATEGORY 1000					608.0312	608.0315	608.0318	608.0324	608.0330	608.0336	608.0412	608.0415	608.0436	610.0419	608.3012	608.3015	522.1012	522.1015	522.1036	633.5200 **	611.9800.S **	* **	
					STORM SEWER PIPE REINFORCED CONCRETE										STORM SEWER PIPE		APRON END WALLS FOR CULVERT			MARKERS			
					CLASS III						CLASS IV			CLASS HE-IV	CLASS III-A		PIPE REINFORCED CONCRETE			CULVERT	PIPE	JOINT	
FROM STR	TO STR	INLET ELEV	DISCH ELEV	SLOPE (FT/FT)	12-INCH LF	15-INCH LF	18-INCH LF	24-INCH LF	30-INCH LF	36-INCH LF	12-INCH LF	15-INCH LF	36-INCH LF	19X30-INCH (LF)	12-INCH LF	15-INCH LF	12-INCH EACH	15-INCH EACH	36-INCH EACH	END EACH	GRATES EACH	TIES EACH	COMMENTS
618C	618D	768.04	767.98	0.01	---	---	---	---	---	---	5.9	---	---	---	---	---	---	---	---	---	---	---	---
618D	618	767.98	766.83	0.010	---	---	---	---	---	---	114.8	---	---	---	---	---	---	---	---	---	---	---	---
618	619	762.47	761.86	0.004	---	---	---	---	176.2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
619A	619B	767.01	766.66	0.010	---	---	---	---	---	---	35.0	---	---	---	---	---	---	---	---	---	---	---	---
619B	619C	766.66	766.59	0.010	---	---	---	---	---	---	---	---	---	---	7.0	---	---	---	---	---	---	---	---
619C	619D	766.59	766.44	0.010	15.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
619D	619E	766.44	766.33	0.010	---	---	---	---	---	---	---	---	---	---	11.0	---	---	---	---	---	---	---	---
619E	619	766.33	766.14	0.010	19.5	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
619F	619	768.59	768.36	0.010	---	---	---	---	---	---	23.5	---	---	---	---	---	---	---	---	---	---	---	---
619	620	761.36	759.91	0.004	---	---	---	---	---	412.2	---	---	---	---	---	---	---	---	---	---	---	---	---
620B	620C	761.86	761.79	0.005	---	---	---	---	---	---	---	---	---	---	---	14.6	---	---	---	---	---	---	---
620C	620	761.54	761.42	0.005	---	---	24.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
620D	620	764.17	764.00	0.010	---	---	---	---	---	---	17.2	---	---	---	---	---	---	---	---	---	---	---	---
620	621	759.91	759.35	0.004	---	---	---	---	---	139.1	---	---	---	---	---	---	---	---	---	---	---	---	---
621	622	759.35	759.05	0.005	---	---	---	---	---	---	---	---	57.3	---	---	---	---	---	---	---	---	---	---
622	OUTLET	759.05	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	1	1	6	---
623A	623C	758.34	758.29	0.005	10.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
623B	623C	758.34	758.29	0.005	10.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
623C	623E	758.04	757.91	0.005	---	---	---	---	---	---	---	25.2	---	---	---	---	---	---	---	---	---	---	---
623D	623E	758.21	758.16	0.005	---	---	---	---	---	---	10.0	---	---	---	---	---	---	---	---	---	---	---	---
623E	623F	757.91	757.37	0.010	---	---	---	---	---	---	---	53.8	---	---	---	---	---	---	---	---	---	---	---
623F	OUTLET	757.37	---	0.005	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	1	---	6	---
301A	301B	767.33	767.30	0.004	---	---	---	---	---	---	7.2	---	---	---	---	---	---	---	---	---	---	---	---
301B	301C	767.30	767.12	0.005	---	---	---	---	---	---	37.1	---	---	---	---	---	---	---	---	---	---	---	---
301C	OUTLET	767.12	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	---	---	1	1	6	---
EX.302B	302E	766.01	765.66	0.010	---	---	---	---	---	---	34.8	---	---	---	---	---	---	---	---	---	---	---	---
302C	302E	765.76	765.66	0.010	---	---	---	---	---	---	10.0	---	---	---	---	---	---	---	---	---	---	---	---
302E	EX. 302E	765.66	765.59	0.010	---	---	---	---	---	---	6.7	---	---	---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
501A	501B	766.38	766.22	0.010	---	---	---	---	---	---	16.0	---	---	---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
501C	501A	766.56	766.38	0.010	---	---	---	---	---	---	17.6	---	---	---	---	---	---	---	---	---	---	---	---
SUBTOTAL:					55	0	25	0	176	551	336	79	57	0	18	15	1	1	1	3	2	18	
TOTAL:					279	126	68	1387	651	631	1696	140	88	282	61	47	2	1	2	5	4	30	

1. STATIONS AND OFFSETS ARE TO THE CENTER OF STRUCTURES OR TO THE END OF PIPE WHERE THERE IS AN ENDWALL. PIPE LENGTHS ARE MEASURED TO THE CENTER OF STRUCTURE OR ENDWALL CONNECTION AND DO NOT INCLUDE THE LAYING LENGTH OF ENDWALLS
2. JOINT TIES FOR CONCRETE PIPE SHALL BE PROVIDED AT ALL REINFORCED CONCRETE APRON ENDWALL LOCATIONS. APRON ENDWALLS SHALL BE TIED FOR THE LAST THREE JOINTS AT PIPE ENDS. THE COST OF THESE TIES SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE REIINFORCED CONCRETE STORM SEWER PIPE.

* FOR INFORMATION ONLY

** ADDITIONAL QUANTITIES SHOWN ELSEWHERE SEE CULVERT TABLE

3

DETOUR ITEMS

CATEGORY	STAGE	LOCATION	**STAGE** DURATION DAYS	** 643.0900 TRAFFIC CONTROL SIGNS *EACH	643.0900 TRAFFIC CONTROL SIGNS DAY	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I NUMBER OF CYCLES	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I EACH	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II NUMBER OF CYCLES	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS *EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	643.3000 TRAFFIC CONTROL DETOUR SIGNS *EACH	643.3000 TRAFFIC CONTROL DETOUR SIGNS DAY
1000	1		90										
		EAST FRONTAGE ROAD TO STH 20 TO CTH U (WB/SB DETOUR)		--	--	1	1	--	--	4	360	152	13680
		CTH U TO STH 20 TO EAST FRONTAGE ROAD (EB/NB DETOUR)		--	--	--	--	--	--	1	90	89	8010
		SUBTOTALS			0		1		0		450		21690
1000	2		115										
		WEST FRONTAGE ROAD TO CTH G TO CTH V (EB/SB DETOUR)		--	--	1	2	1	21	2	230	88	10120
		CTH V TO CTH G TO WEST FRONTAGE ROAD (WB/NB DETOUR)		8	920	1	2	1	4	6	690	105	12075
		SUBTOTALS			920		4		25		920		22195
		UNDISTRIBUTED			230		1		6		343		10971
		TOTAL			1150		6		31		1713		54856

*FOR INFORMATION ONLY

**ADDITIONAL QUANTITIES SHOWN ELSEWHERE - SEE TRAFFIC CONTROL ITEMS

TRAFFIC CONTROL

CATEGORY	STAGE	ROADWAY	STAGE DURATION DAYS	643.0300 TRAFFIC CONTROL DRUMS * EACH	DRUMS DAY	643.0420 BARRICADES TYPE III * EACH	BARRICADES TYPE III DAY	643.0705 WARNING LIGHTS TYPE A * EACH	WARNING LIGHTS TYPE A DAY	643.0715 WARNING LIGHTS TYPE C * EACH	WARNING LIGHTS TYPE C DAY	** 643.0900 SIGNS * EACH	SIGNS DAY
1000	1A	CTH K	80	24	1920	17	1360	20	1600	9	720	24	1920
		WEST FRONTAGE ROAD	80	82	6,560	19	1,520	14	1,120	35	2,800	15	1,200
			SUBTOTALS		8,480		2,880		2,720		3,520		3,120
	1B	CTH K	10	24	240	17	170	20	200	9	90	24	240
		WEST FRONTAGE ROAD	10	144	1440	10	100	16	160	10	100	18	180
			SUBTOTALS		1,680		270		360		190		420
		(PRE STAGE 2A)	2	11	22	2	4	4	8	--	--	6	12
	2A	EAST FRONTAGE ROAD	5	46	230	5	25	10	50	3	15	17	85
			SUBTOTALS:		252		29		58		15		97
	2B	CTH K	80	10	800	15	1,200	16	1,280	--	--	21	1,680
		EAST FRONTAGE ROAD	80	81	6,480	10	800	10	800	25	2,000	15	1,200
			SUBTOTALS		7280		2,000		2,080		2,000		2,880
	2C	CTH K	15	10	150	15	225	16	240	--	--	21	315
		EAST FRONTAGE ROAD	15	138	2,070	16	240	16	240	20	300	18	270
			SUBTOTALS		2,220		465		480		300		585
	2D	CTH K	15	10	150	15	225	16	240	--	--	21	315
		EAST FRONTAGE ROAD	15	141	2,115	18	270	14	210	9	135	15	225
		(RESTORE CONC MEDIAN NOSE)	2	11	22	2	4	4	8	--	--	6	12
			SUBTOTALS		2,287		499		458		135		552
			TOTALS:		22,199		6,143		6,156		6,160		7,654

* FOR INFORMATION ONLY

**ADDITIONAL QUANTITIES SHOWN ELSEWHERE - SEE DETOUR ITEMS

3

TRAFFIC CONTROL

CATEGORY	LOCATION	643.0100 TRAFFIC CONTROL (1030-11-71) EACH	643.2000 TRAFFIC CONTROL DETOUR (1030-11-71) EACH
1000		1	1
	TOTAL	1	1

TUBULAR MARKERS

CATEGORY	STAGE	LOCATION	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH
1000	1A	WEST FRONTAGE RD	9	9
	2B	EAST FRONTAGE RD	14	14
			23	23

3

REMOVING PAVEMENT MARKINGS WATER BLASTING

CATEGORY	ROADWAY	STATION TO STATION	646.0690.S REMOVING PAVEMENT MARKINGS WATER BLASTING LF
1000	WEST FRONTAGE ROAD		
		2056+11 - 2057+54	143
		2054+57 - 2057+25	268
		4055+75 - 4057+56	183
		4055+20 - 4055+60	40
	EAST FRONTAGE ROAD		
		3054+50 - 3054+97	47
	SUBTOTAL		681
	UNDISTRIBUTED (20%)		136
	TOTALS		817

FIXED MESSAGE SIGNS

CATEGORY	STAGE	SIGN NO.	NUMBER REQUIRED	SIGN SIZE W X H FT X FT	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	SIGN MESSAGE
1000	2	200	1	13.0 x 8.0	104	ACCESS TO PILOT TRAVEL
		201	1	13.0 x 8.0	104	ACCESS TO PILOT TRAVEL
		202	1	9.0 x 4.0	36	EXIT AT HWY 20
		203	1	9.0 x 4.0	36	EXIT AT CTH G
		204	2	6.0 x 5.0	60	ACCESS TO PILOT TRAVEL "RIGHT ARROW"
		205	2	6.0 x 5.0	60	ACCESS TO PILOT TRAVEL "LEFT ARROW"
		206	1	6.0 x 4.0	24	PILOT TRAVEL, ARBYS, A&W "RIGHT ARROW"
		207	1	6.0 x 4.0	24	PILOT TRAVEL, ARBYS, A&W "LEFT ARROW"
	TOTALS				448	

3

FIELD FACILITIES

CATEGORY	PROJECT	SPV.0060.001 FIELD FACILITIES OFFICE SPACE EACH
1000	1030-11-71	1.00
	TOTALS:	1.00

SURVEY PROJECT

CATEGORY	LOCATION	SPV.0105.002 SURVEY PROJECT 1030-11-71 LS
1000	PROJECT ID 1030-11-71	1
	TOTAL:	1

PAVEMENT CLEANUP

CATEGORY		SPV.0075.009 PAVEMENT CLEANUP HRS
1000	PROJECT 1030-11-71	100.00
	TOTAL:	100.00

3

TEMPORARY PAVEMENT MARKINGS

			646.0103		649.0400	
			PAVEMENT MARKING PAINT 4-INCH		TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	
			YELLOW	WHITE	YELLOW	WHITE
CATEGORY	STAGE	LOCATION	LF	LF	LF	LF
1000	STAGE 1A	WEST FRONTAGE ROAD				
		SB	851	851	--	--
		NB	405	802	--	--
	STAGE 1A SUBTOTAL:		1,256	1,653	0	0
	STAGE 1B	WEST FRONTAGE ROAD				
		SB	--	--	899	901
		NB	--	--	980	981
	STAGE 1B SUBTOTAL:		0	0	1,879	1,882
	STAGE 2A	EAST FRONTAGE ROAD				
		NB (NORTH)	--	--	344	--
		SB (NORTH)	--	--	331	--
		SOUTH	--	--	369	375
	STAGE 2A SUBTOTAL:		0	0	1044	375
	STAGE 2B	EAST FRONTAGE ROAD	--	--	1270	2,485
	STAGE 2B SUBTOTAL:		0	0	1,270	2,485
	STAGE 2C	EAST FRONTAGE ROAD				
		SB	--	--	716	698
		NB	--	--	1,789	930
	STAGE 2C SUBTOTAL:		0	0	2,505	1,628
	STAGE 2D	EAST FRONTAGE ROAD				
		SB	--	--	1,094	1,152
		NB	--	--	1,348	1,502
	STAGE 2D SUBTOTAL:		0	0	2,442	2,654
		SUBTOTAL	1,256	1,653	9,140	9,024
		TOTAL	2,909		18,164	

PAVEMENT MARKING ITEMS

				646.0106			646.0842.S					646.0844.S	
				PAVEMENT MARKING EPOXY 4-INCH			PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 4-INCH					PAVEMENT MARKING GROOVED CONTRAST WET REFLECTIVE EPOXY 8-INCH	
				2 FT LINE 6 FT SKIP				12.5 FT LINE 37.5 FT SKIP	3 FT LINE 9 FT SKIP	2 FT LINE 6 FT SKIP	2 FT LINE 6 FT SKIP	3 FT LINE 9 FT SKIP	
				YELLOW	YELLOW	WHITE	WHITE	WHITE	WHITE	WHITE	YELLOW	WHITE	WHITE
CATEGORY	LOCATION	STATION	TO STATION	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
1000	CTH K	11+50	32+60	5637	--	4151	440	462.5	39	--	--	30	1,167
		32+31	33+93	--	--	--	--	--	--	--	114	--	--
		33+65	41+33	1489	--	1450	39	212.5	57	--	--	111	828
		SB RAMP		83	--	76	--	--	--	--	--	--	83
		42+27	43+81	307	--	307	--	--	--	--	--	--	154
		NB RAMP		92	--	79	--	--	--	--	--	--	231
		43+81	51+46	1716	40	1236	345	263	66	18	--	117	1,263
		51+29	52+55	--	--	--	--	--	--	--	96	--	--
		52+52	76+00	6009	--	4464	390	550	54	--	--	99	1,280
	WEST FRONTAGE RD.	2054+33	2058+90	740	--	786	191	--	63	--	--	45	271
		4053+82	4057+60	581	--	599	101	--	--	--	--	39	262
	EAST FRONTAGE RD.	3048+81	3055+79	1026	--	769	161	--	54	--	--	36	613
		5052+15	5055+61	381	--	517	112	88	--	--	--	6	677
	CAROL RD.	10+44	11+44	200	--	--	--	--	--	--	--	--	--
SUBTOTAL				18,261	40	14,434	1,779	1,576	711	18	210	483	6,829
TOTAL:					32,735				4,294				7,312

PAVEMENT MARKING ITEMS (CONTINUED)

				647.0156	647.0166	647.0176	647.0356	647.0456	647.0566	647.0606	647.0726	647.0856
CATEGORY	LOCATION	STATION	TO STATION	PAVEMENT MARKING ARROWS EPOXY TYPE 1 WHITE EA	PAVEMENT MARKING ARROWS EPOXY TYPE 2 WHITE EA	PAVEMENT MARKING ARROWS EPOXY TYPE 3 WHITE EA	PAVEMENT MARKING WORDS EPOXY WHITE EA	PAVEMENT MARKING CURB EPOXY YELLOW LF	PAVEMENT MARKING STOP LINE EPOXY 18-INCH WHITE LF	PAVEMENT MARKING ISLAND NOSE EPOXY YELLOW EA	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	PAVEMENT MARKING CONCRETE CORRUGATED MEDIAN EPOXY YELLOW SF
1000	CTH K	11+50	32+60	--	4	--	4	27	26	2	614	--
		32+31	33+93	--	--	--	--	--	--	--	--	--
		33+65	41+33	2	5	--	4	27	47	2	--	--
		SB RAMP		--	1	--	1	--	42	--	--	--
		42+27	43+81	1	--	1	--	--	34	--	--	--
		NB RAMP		--	--	--	--	--	40	--	--	--
		43+81	51+46	--	6	--	5	27	85	2	93	135
		51+29	52+55	--	--	--	--	--	--	--	--	--
		52+52	76+00	--	4	--	4	112	61	4	663	193
	WEST FRONTAGE RD.	2054+33	2058+90	--	2	--	2	33	45	1	--	--
		4053+82	4057+60	--	2	--	2	33	46	1	--	--
	EAST FRONTAGE RD.	3048+81	3055+79	--	4	--	4	10	66	1	--	--
		5052+15	5055+61	--	3	--	2	129	66	2	--	--
	CAROL RD.	10+44	11+44	--	--	--	--	--	24	--	--	--
SUBTOTAL				3	31	1	28	398	582	15	1,370	328
TOTAL:				3	31	1	28	398	582	15	1,370	328

3

ADJUSTING WATER VALVES

CATEGORY	ROADWAY	STATION	OFFSET	SPV.0060.500 ADJUSTING WATER VALVES EACH
1000	CTH K			
		50+71WB	58.2' LT	1
		50+98WB	52.8' LT	1
		51+03WB	57.7' LT	1
		52+99WB	42.7' LT	1
		53+04WB	47.9' LT	1
		55+69WB	53.8' LT	1
		64+28WB	34.5' LT	1
		64+39WB	37.4' LT	1
		69+14WB	39.7' LT	1
		69+24WB	42.2' LT	1
		74+34WB	43.4' LT	1
		74+40WB	45.7' LT	1
	CAROL ROAD			
		10+68	43.0' LT	1
TOTAL				13

OVERHEAD SIGN SUPPORTS - MISC QUANTITIES IH41/94 AT CTH K 1030-11-71

LOCATION	OVERHEAD SIGN SUPPORT STRUCTURE S51-217 L.S. 641.8100.001	OVERHEAD SIGN SUPPORT STRUCTURE S51-240 L.S. 641.8100.002	OVERHEAD SIGN STRUCTURE S51-216 L.S. 641.8100.003
CTH K WB AT IH 41/94	1		
CTH K EB AT EAST FRONTAGE ROAD		1	1
TOTAL	1	1	1

MOVING SOLAR FLASHING BEACON AND POLE IH41/94 AT CTH K 1030-11-71

LOCATION	MOVING FLASHING BEACON AND POLE EASTBOUND CTH K right at West Frontage Road EACH SPV.0060.012	MOVING FLASHING BEACON AND POLE Eastbound CTH K left at West Frontage Road EACH SPV.0060.013
CTH K EASTBOUND RIGHT AT WEST FRONTAGE ROAD	1	
CTH K EASTBOUND LEFT AT WEST FRONTAGE ROAD		1
TOTAL	1	1

REMOVING SOLAR FLASHING BEACON AND POLE IH41/94 AT CTH K 1030-11-71

LOCATION	REMOVING FLASHING BEACON AND POLE Westbound CTH K right at East Frontage Road EACH SPV.0060.010	REMOVING FLASHING BEACON AND POLE Westbound CTH K left at East Frontage Road EACH SPV.0060.011
CTH K WESTBOUND RIGHT AT EAST FRONTAGE ROAD	1	
CTH K WESTBOUND LEFT AT EAST FRONTAGE ROAD		1
TOTAL	1	1

TYPE II SIGN REMOVAL **1030-11-71 IH 94 / CTH K**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS / SIGN LOCATION
1R	W1-2L W13-1	--	1	1	--
2R	R2-1	--	1	1	--
3R	W1-6	--	1	1	--
4R	W1-6	--	1	1	--
5R	W23-2	--	1	1	--
6R	W2-1	--	1	--	--
7R	W2-1	--	1	--	--
8R	--	REDUCED SPEED AHEAD	1	1	ALSO REMOVE 35 MPH SPEED PLAQUE
9R	R3-8	--	1	1	--
10R	J1-1	--	1	1	--
11R	W1-2R W13-1	--	--	--	--
12R	D1-60	--	1	2	--
13R	R2-1	--	1	1	--
14R	M1-95A M6-4	--	1	1	--
15R	R1-1 W4-4C	--	1	1	--
16R	M1-95A M6-4	--	1	1	--
17R	R1-1 W4-4C	--	1	1	--
18R	R11-2L	--	1	1	--
19R	W1-6	--	1	1	--
20R	J3-4	--	1	2	--
21R	W3-1	--	1	1	--
22R	R11-54F	--	1	2	--
23R	J2-2	--	1	1	--
24R	D1-60	--	1	2	--
25R	R3-8	--	1	1	--
26R	R1-1 R1-3P R3-2	--	1	1	--
27R	R1-1 R1-3P R3-2	--	1	1	--

TYPE II SIGN REMOVAL **1030-11-71 IH 94 / CTH K**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS / SIGN LOCATION
28R	J2-2	--	1	1	--
29R	R11-54F	--	1	2	--
30R	R7-1D	--	1	1	--
31R	W3-1	--	1	1	--
32R	R1-1	--	1	1	--
	W4-4C				
33R	R1-1	--	1	1	--
	W4-4C				
34R	R5-1	--	1	1	--
35R	W12-1D	--	1	1	--
36R	R2-1	--	1	1	--
37R	M1-95A	--	1	1	--
	M6-4				
38R	R5-1	--	1	1	--
39R	R1-1	--	1	1	--
	W4-4C				
40R	W12-1D	--	1	1	--
41R	R1-1	--	1	1	--
	W4-4C				
42R	M1-95A	--	1	1	--
	M6-4				
43R	J3-4	--	1	2	--
44R	R3-8W	--	1	2	--
45R	D1-60	--	1	2	--
46R	J4-1	--	1	1	--
47R	D1-60	--	1	2	--
48R	R3-8W	--	1	2	--
49R	R7-1R	--	1	1	--
50R	W2-1	--	1	--	--
51R	W2-1	--	1	--	--
52R	R1-1	--	1	1	--
53R	D2-2	--	1	2	--
54R	JV1-2	--	1	1	--
55R	R2-1	--	1	1	--
56R	R2-1	--	1	1	--
57R	W23-2	--	1	1	--
58R	W3-5	--	1	1	--

TYPE II SIGN REMOVAL **1030-11-71 IH 94 / CTH K**

SIGN NO.	SIGN CODE	SIGN MESSAGE	638.2602 REMOVING SIGNS TYPE II [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	REMARKS / SIGN LOCATION
59R	R4-7	--	1	1	--
60R	W1-6	--	1	1	--
61R	R11-2L	--	1	1	--
62R	R5-1	--	1	--	--
63R	R4-7	--	1	1	--
64R	R5-1A	--	1	1	--
65R	W3-1	--	1	1	--
66R	W1-6	--	1	1	--
67R	R5-1A	--	1	1	--
68R	R3-8	--	1	1	--
69R	J23-4	--	1	2	--
70R	R4-7	--	1	1	--
71R	NOT USED	--	--	--	--
72R	R5-1	--	1	1	--
73R	R3-7R	--	1	1	--
74R	NOT USED	--	--	--	--
75R	R4-7	--	1	1	--
76R	R6-2R	--	1	1	--
77R	W3-1	--	1	1	--
	--	--	--	--	--
	TOTALS		74	81	

TYPE I & II PERMANENT SIGNING -

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	634.0618 POSTS WOOD 4"X 6"x18' [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
1	W1-2L(2S)	II	--	30	x 30		--	6.250	--	1	--	--	--	--
2	W13-1(2S)	II	--	18	x 18		--	2.250	--	--	--	--	1	--
3	W3-5(2S)	II	35 MPH	36	x 36		--	9.000	--	1	--	--	--	--
4	W6-1(2S)	II	--	36	x 36		--	9.000	--	1	--	--	--	--
5	W6-3(2S)	II	--	36	x 36		--	9.000	--	1	--	--	--	--
6	R2-1(2S)	II	55 MPH	24	x 30		5.000	--	--	1	--	--	--	--
7	R2-1(3)	II	35 MPH	36	x 48		12.000	--	--	1	--	--	--	--
8	R4-7(3)	II	--	36	x 48		12.000	--	--	1	--	--	--	--
9	W5-54(2S)	II	--	18	x 18		--	2.250	--	--	--	--	8	--
10	R5-1(3)	II	--	36	x 36		9.000	--	--	1	--	--	--	--
11	W2-1(2S)	II	--	30	x 30		--	6.250	--	--	--	--	--	ON FLASHING BEACON POLE
12	W2-1(2S)	II	--	30	x 30		--	6.250	--	--	--	--	--	ON FLASHING BEACON POLE
13	D1-60	II	WEST FRONTAGE ROAD [A] NORTH SOUTH [A]	96	x 24		16.000	--	--	2	--	--	--	--
14	J1-2(2S)	II	--	48	x 39		13.000	--	--	1	--	--	--	--
	MB2-1		--	21	x 15									
	M1-1		IH 41	24	x 24									
	MB2-1		--	21	x 15									
	M1-1		IH 94	24	x 24									
15	R3-20L(2S)	II	--	24	x 36		6.000	--	--	1	--	--	--	--
16	D1-60	II	WEST FRONTAGE ROAD [A] NORTH SOUTH [A]	96	x 24		16.000	--	--	2	--	--	--	--
17	W4-2R(2S)	II	--	36	x 36		--	9.000	--	1	--	--	--	--
18	W6-2(2S)	II	--	36	x 36		--	9.000	--	1	--	--	--	--
19	R5-1A(2S)	II	--	36	x 24		6.000	--	--	--	--	--	18	BACK OF SIGN #18
20	W9-1R(2S)	II	--	36	x 36		--	9.000	--	1	--	--	--	--
21	R2-1(2S)	II	35 MPH	24	x 30		5.000	--	--	1	--	--	--	--
22	J4-1(2S)	II	--	24	x 36		6.000	--	--	1	--	--	--	--
	M3-4		--	24	x 12									
	M1-5A		CTH K	24	x 24									
23	J13-1(2S)	II	--	24	x 63		10.500	--	--	1	--	--	--	--
	M3-1		--	24	x 12									
	M1-95A		WEST FRONTAGE ROAD	24	x 30									
	M6-1		--	21	x 21									
24	R6-2L(2M)	II	--	30	x 36		7.500	--	--	1	--	--	--	--
25	R1-1(2S)	II	--	30	x 30		5.180	--	--	1	--	--	--	--
26	W4-4C(2S)	II	TRAFFIC ON K DOES NOT STOP	24	x 12		--	2.000	--	--	--	--	25	--
27	W12-1D(2S)	II	--	24	x 24		--	4.000	--	1	--	--	--	2' MOUNTING HEIGHT

PROJECT NO: 1030-11-71	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING QUANTITIES	SHEET:	E

TYPE I & II PERMANENT SIGNING -

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	634.0618 POSTS WOOD 4"X 6"x18' [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
28	R1-1(2S)	II	--	30	x	30	5.180	--	--	1	--	--	--	--
29	R6-3(2S)	II	--	30	x	24	5.000	--	--	--	--	--	28	--
30	W4-4C(2S)	II	TRAFFIC ON K DOES NOT STOP	24	x	12	--	2.000	--	--	--	--	28	--
31	R5-1(2S)	II	--	30	x	30	6.250	--	--	1	--	--	--	DO NOT PLACE BEHIND STOP SIGN
32	R1-1(2S)	II	--	30	x	30	5.180	--	--	1	--	--	--	--
33	R1-55(2S)	II	--	30	x	36	7.500	--	--	--	--	--	32	--
34	R4-7(2S)	II	--	24	x	30	5.000	--	--	--	--	--	23	BACK OF SIGN #23
35	R4-7(2S)	II	--	24	x	30	5.000	--	--	1	--	--	--	--
36	R4-7(2S)	II	--	24	x	30	5.000	--	--	1	--	--	--	--
37	R4-7(2S)	II	--	24	x	30	5.000	--	--	1	--	--	--	--
38	R1-1(2S)	II	--	30	x	30	5.180	--	--	1	--	--	--	--
39	W12-1D(2S)	II	--	24	x	24	--	4.000	--	1	--	--	--	2' MOUNTING HEIGHT
40	R5-1(2S)	II	--	30	x	30	6.250	--	--	1	--	--	--	--
41	R5-1(2S)	II	--	30	x	30	6.250	--	--	1	--	--	--	--
42	W12-1D(2S)	II	--	24	x	24	--	4.000	--	1	--	--	--	2' MOUNTING HEIGHT
43	R1-1(2S)	II	--	30	x	30	5.180	--	--	1	--	--	--	--
44	W4-4C(2S)	II	TRAFFIC ON K DOES NOT STOP	24	x	12	--	2.000	--	--	--	--	43	--
45	R6-2L(2M)	II	--	30	x	36	7.500	--	--	1	--	--	--	--
46	R1-1(2S)	II	--	30	x	30	5.180	--	--	1	--	--	--	--
47	R6-3(2S)	II	--	30	x	24	5.000	--	--	--	--	--	46	--
48	W4-4C(2S)	II	TRAFFIC ON K DOES NOT STOP	24	x	12	--	2.000	--	--	--	--	46	--
49	R1-1(2S)	II	--	30	x	30	5.180	--	--	1	--	--	--	--
50	W12-1D(2S)	II	--	24	x	24	--	4.000	--	1	--	--	--	2' MOUNTING HEIGHT
51	R1-1(2S)	II	--	30	x	30	5.180	--	--	1	--	--	--	--
52	R1-55(2S)	II	--	30	x	36	7.500	--	--	--	--	--	51	--
53	J13-1(2S)	II	--	24	x	63	10.500	--	--	1	--	--	--	--
	M3-3		--	24	x	12								
	M1-95A		WEST FRONTAGE ROAD	24	x	30								
	M1-6		--	21	x	21								
54	R5-1(2S)	II	--	30	x	30	6.250	--	--	1	--	--	--	--
55	R3-20LL(2S)	II	--	24	x	36	6.000	--	--	1	--	--	--	--
56	R5-1A(2S)	II	--	36	x	24	6.000	--	--	1	--	--	--	--

TYPE I & II PERMANENT SIGNING -

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	634.0618 POSTS WOOD 4"X 6"x18' [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
57	J3-4(2S)	II	--	96	x 69		46.000	--	--	2	--	--	--	--
	MB4-1		--	24	x 12									
	MB3-3		--	24	x 12									
	M1-1		IH 41	24	x 24									
	MB6-1		--	21	x 21									
	MB4-1		--	24	x 12									
	MB3-2		--	24	x 12									
	M1-1		IH 94	24	x 24									
	MB6-1		--	21	x 21									
	MB4-1		--	24	x 12									
	MB3-1		--	24	x 12									
	M1-1		IH 41	24	x 24									
	MB6-1		--	21	x 21									
	MB4-1		--	24	x 12									
	MB3-4		--	24	x 12									
	M1-1		IH 94	24	x 24									
	MB6-1		--	21	x 21									
	M1-1		IH 94	24	x 24									
	MB6-1		--	21	x 21									
58	R5-1A(2S)	II	--	36	x 24		6.000	--	--	1	--	--	--	--
59	R3-20LL(2S)	II	--	24	x 36		6.000	--	--	1	--	--	--	--
60	J2-4	--	--	--	x --		--	--	--	2	2	1	--	MOVE TO STA 37+75 LT
61	R3-20L(2S)	II	--	24	x 36		6.000	--	--	1	--	--	--	--
62	D1-60	II	WEST FRONTAGE ROAD [A] SOUTH NORTH [A]	96	x 24		16.000	--	--	2	--	--	--	--
63	R2-1	--	--	--	x --		--	--	--	1	1	1	--	--
64	J4-1	--	--	--	x --		--	--	--	1	1	1	--	--
65	R4-7(2S)	II	--	24	x 30		5.000	--	--	1	--	--	--	--
66	R5-1(2S)	II	--	30	x 30		6.250	--	--	1	--	--	--	--
67	--	--	CRIME WATCH SIGN	--	x --		--	--	--	1	1	1	--	MOVE SIGN - DO NOT REPLACE
68	D1-2	--	--	--	x --		--	--	--	1	2	2	--	--
69	R5-1A(2S)	II	--	36	x 24		6.000	--	--	1	--	--	--	--
70	--	I	SOUTH EAST [41] [94] ONLY [A]	--	x --		--	--	--	--	--	--	--	INSTALL ON S-51-216 COVER UNTIL INTERCHANGE PROJECT IS COMPLETED

TYPE I & II PERMANENT SIGNING -

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	634.0618 POSTS WOOD 4"X 6"x18' [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
71	J2-2(2S)	II	--	48	x	57	19.000	--	--	--	--	--	--	MOUNT ON UPRIGHT
	MB3-3		--	24	x	12								S-51-216
	M1-1		IH 41	24	x	24								
	MB5-1R		--	21	x	21								
	MB3-2		--	24	x	12								
	M1-1		IH 94	24	x	24								
	MB5-1R		--	21	x	21								
72	R11-54F(2S)	II	--	48	x	30	--	--	10.000	2	--	--	--	--
73	W3-1(2S)	II	--	36	x	36	--	9.000	--	1	--	--	--	--
74	W3-1(2S)	II	--	36	x	36	--	9.000	--	1	--	--	--	--
75	R5-1	--	--	--	x	--	--	--	--	1	1	1	--	--
76	--	--	COVERED J ASSEMBLY	--	x	--	--	--	--	1	1	1	--	--
77	R1-1	--	--	--	x	--	--	--	--	1	1	1	--	--
78	R6-2L	--	--	--	x	--	--	--	--	1	1	1	--	--
79	J3-2	--	--	--	x	--	--	--	--	1	1	1	--	--
80	J3-2	--	--	--	x	--	--	--	--	--	--	1	79	BACK OF SIGN #79
81	D1-1	--	--	--	x	--	--	--	--	2	2	1	--	--
82	R7-1R	--	--	--	x	--	--	--	--	1	1	1	--	--
83	--	--	CALEDONIA WELCOME SIGNS	--	x	--	--	--	--	2	2	4	--	MOVE - DO NOT REPLACE SIGNS
84	W3-3(2S)	II	--	36	x	36	--	9.000	--	1	--	--	--	--
85	R2-1	--	--	--	x	--	--	--	--	1	1	1	--	--
86	J4-1	--	--	--	x	--	--	--	--	1	1	1	--	--
87	R7-1L	--	--	--	x	--	--	--	--	1	1	1	--	--
88	R1-1	--	--	--	x	--	--	--	--	1	1	1	--	--
89	R5-1	--	--	--	x	--	--	--	--	1	1	1	--	--
90	R6-2L	--	--	--	x	--	--	--	--	1	1	1	--	--
91	R5-1(2S)	II	--	30	x	30	6.250	--	--	1	--	--	--	--
92	D1-2	II	[A] CHICAGO MILWAUKEE [A]	72	x	30	15.000	--	--	2	--	--	--	--
93	--	I	SOUTH EAST [41] [94] ONLY [A]	--	x	--	--	--	--	--	--	--	--	INSTALL ON S-51-240 COVER UNTIL INTERCHANGE PROJECT IS COMPLETED
94	R5-1A(2M)	II	--	42	x	30	8.750	--	--	1	--	--	--	--
95	W3-1(2S)	II	--	36	x	36	--	9.000	--	--	--	--	94	BEHIND SIGN #94
96	W3-1(2S)	II	--	36	x	36	--	9.000	--	1	--	--	--	--
97	R11-54F(2S)	II	--	48	x	30	--	--	10.000	2	--	--	--	--

TYPE I & II PERMANENT SIGNING -

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	634.0618 POSTS WOOD 4"X 6"x18' [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
98	J2-2(2S)	II	--	48	x	57	19.000	--	--	--	--	--	--	MOUNT ON UPRIGHT
	MB3-1		--	24	x	12								S-51-217
	M1-1		IH 41	24	x	24								
	MB5-1R		--	21	x	21								
	MB3-4		--	24	x	12								
	M1-1		IH 94	24	x	24								
	MB5-1R		--	21	x	21								
99	--	I	NORTH WEST [41] [94] ONLY [A]	--	x	--	--	--	--	--	--	--	--	INSTALL ON S-51-217
100	R1-1F(2S)	II	--	36	x	36	--	--	5.180	--	--	--	101	BACK OF SIGN #101
101	R4-7(2S)	II	--	24	x	36	6.000	--	--	1	--	--	--	--
102	R3-20LL(2M)	II	--	24	x	36	6.000	--	--	1	--	--	--	--
103	W12-1D(2S)	II	--	24	x	24	--	4.000	--	1	--	--	--	2' MOUNTING HEIGHT
104	R1-2(2S)	II	--	36	x	31	3.880	--	--	1	--	--	--	--
105	R1-1F(2S)	II	--	30	x	30	--	--	5.180	--	--	--	--	MOUNT ON SIGNAL POLE
106	R1-1F(2S)	II	--	30	x	30	--	--	5.180	--	--	--	--	MOUNT ON SIGNAL POLE
107	R6-2L(2M)	II	--	30	x	36	7.500	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
108	R10-50(2M)	II	--	30	x	36	7.500	--	--	--	--	--	--	ON MAST ARM
109	R1-1F(2S)	II	--	30	x	30	--	--	5.180	--	--	--	112	BACK OF SIGN #112
110	R3-20L(2S)	II	--	24	x	36	6.000	--	--	1	--	--	--	--
111	--	--	TRUCK ENTRANCE AHEAD	--	x	--	--	--	--	--	--	1	110	MOVE FROM STA 5055+00
112	R4-7(2S)	II	--	24	x	30	5.000	--	--	1	--	--	--	--
113	M1-94H	II	NORTHWESTERN AVE	96	x	18	12.000	--	--	--	--	--	--	ON MAST ARM
114	R6-2L(2S)	II	--	24	x	30	5.000	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
115	R1-1(2S)	II	--	30	x	30	5.180	--	--	1	--	--	--	--
116	W12-1D(2S)	II	--	24	x	24	--	4.000	--	1	--	--	--	2' MOUNTING HEIGHT
117	R1-1F(2S)	II	--	30	x	30	--	--	5.180	--	--	--	--	MOUNT ON SIGNAL POLE
118	R1-1F(2S)	II	--	30	x	30	--	--	5.180	--	--	--	--	MOUNT ON SIGNAL POLE
119	R10-50(2M)	II	--	30	x	36	7.500	--	--	--	--	--	--	ON MAST ARM
120	R5-1(2M)	II	--	36	x	36	9.000	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
121	R5-1(2M)	II	--	36	x	36	9.000	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
122	R5-1(2M)	II	--	36	x	36	9.000	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
123	R5-1(2M)	II	--	36	x	36	9.000	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
124	R6-2L(2S)	II	--	24	x	30	5.000	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
125	M1-94H	II	EAST FRONTAGE RD	96	x	18	12.000	--	--	--	--	--	--	ON MAST ARM
126	W12-1D(2S)	II	--	24	x	24	--	4.000	--	1	--	--	--	2' MOUNTING HEIGHT

TYPE I & II PERMANENT SIGNING -

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	634.0618 POSTS WOOD 4"X 6"x18' [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
127	R1-1F(2S)	II	--	30	x	30	--	--	5.180	--	--	--	--	MOUNT ON SIGNAL POLE
128	R1-1F(2S)	II	--	30	x	30	--	--	5.180	--	--	--	--	MOUNT ON SIGNAL POLE
129	R10-50(2M)	II	--	30	x	36	7.500	--	--	--	--	--	--	ON MAST ARM
130	R1-1F(2S)	II	--	30	x	30	--	--	5.180	--	--	--	131	BACK OF SIGN #131
131	R4-7(2S)	II	--	24	x	30	5.000	--	--	1	--	--	--	--
132	R6-2L(2S)	II	--	24	x	30	5.000	--	--	--	--	--	--	MOUNT ON SIGNAL POLE
133	R1-1(2S)	II	--	30	x	30	5.180	--	--	1	--	--	--	--
134	M1-94H	II	NORTHWESTERN AVE	96	x	18	12.000	--	--	--	--	--	--	ON MAST ARM
135	W12-1D(2S)	II	--	24	x	24	--	4.000	--	1	--	--	--	2' MOUNTING HEIGHT
136	R1-1F(2S)	II	--	30	x	30	--	--	5.180	--	--	--	--	MOUNT ON SIGNAL POLE
137	R1-1F(2S)	II	--	30	x	30	--	--	5.180	--	--	--	--	MOUNT ON SIGNAL POLE
138	R10-50(2M)	II	--	30	x	36	7.500	--	--	--	--	--	--	ON MAST ARM
139	M1-94H	II	EAST FRONTAGE RD	96	x	18	12.000	--	--	--	--	--	--	ON MAST ARM
140	R5-1A(2S)	II	--	36	x	24	6.000	--	--	--	--	--	141	BACK OF SIGN #141
141	J3-4(2S)	II	--	96	x	69	46.000	--	--	2	--	--	--	--
	MB4-1		--	24	x	12								
	MB3-1		--	24	x	12								
	M1-1		IH 41	24	x	24								
	MB6-1		--	21	x	21								
	MB4-1		--	24	x	12								
	MB3-4		--	24	x	12								
	M1-1		IH 94	24	x	24								
	MB6-1		--	21	x	21								
	MB4-1		--	24	x	12								
	MB3-3		--	24	x	12								
	M1-1		IH 41	24	x	24								
	MB6-1		--	21	x	21								
	MB4-1		--	24	x	12								
	MB3-2		--	24	x	12								
	M1-1		IH 94	24	x	24								
	MB6-1		--	21	x	21								
142	R3-20LL(2S)	II	--	24	x	36	6.000	--	--	1	--	--	--	--
143	D1-60	II	EAST FRONTAGE RD	96	x	24	16.000	--	--	2	--	--	--	--
			[A] NORTH SOUTH [A]											
144	R3-20L(2S)	II	--	24	x	36	6.000	--	--	1	--	--	--	--
145	R4-7(2S)	II	--	24	x	30	5.000	--	--	1	--	--	--	--
146	R3-20LL(2S)	II	--	24	x	36	6.000	--	--	1	--	--	--	--

TYPE I & II PERMANENT SIGNING -

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	634.0618 POSTS WOOD 4"X 6"x18' [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
147	J1-2(2S)	II	--	48	x	39	13.000	--	--	1	--	--	--	--
	MB2-1		--	21	x	15								
	M1-1		IH 41	24	x	24								
	MB2-1		--	21	x	15								
	M1-1		IH 94	24	x	24								
148	R5-1A(2S)	II	--	36	x	24	6.000	--	--	--	--	--	149	BACK OF SIGN #149
149	J13-1(2S)	II	--	24	x	63	10.500	--	--	1	--	--	--	--
	M3-1		--	24	x	12								
	M1-95A		EAST FRONTAGE ROAD	24	x	30								
	M6-1		--	21	x	21								
150	D1-60	II	EAST FRONTAGE RD [A] SOUTH NORTH [A]	96	x	24	16.000	--	--	2	--	--	--	--
151	R3-20L(2S)	II	--	24	x	36	6.000	--	--	1	--	--	--	--
152	R1-1(2S)	II	--	30	x	30	5.180	--	--	1	--	--	--	--
153	R4-7(2S)	II	--	24	x	30	5.000	--	--	1	--	--	--	--
154	W9-1R(2S)	II	--	36	x	36	--	9.000	--	1	--	--	--	--
155	W9-1R(2S)	II	--	36	x	36	--	9.000	--	1	--	--	--	--
156	R7-1R(2S)	II	--	18	x	24	3.000	--	--	1	--	--	--	--
157	J13-1(2S)	II	--	24	x	63	10.500	--	--	1	--	--	--	--
	M3-3		--	24	x	12								
	M1-95A		EAST FRONTAGE ROAD	24	x	30								
	M6-1		--	21	x	21								
158	R2-1(2S)	II	35 MPH	24	x	30	5.000	--	--	1	--	--	--	--
159	J4-1(2S)	II	--	24	x	36	6.000	--	--	1	--	--	--	--
	M3-2		--	24	x	12								
	M1-5A		CTH K	24	x	24								
160	R1-1F(2S)	II	--	30	x	30	--	--	5.180	--	--	--	161	BACK OF SIGN #161
161	R4-7(2S)	II	--	24	x	30	5.000	--	--	1	--	--	--	--
162	R1-2(2S)	II	--	36	x	31	3.880	--	--	1	--	--	--	--
163	R5-2	--	--	--	x	--	--	--	--	1	1	1	--	--
164	W3-3(2S)	II	--	36	x	36	--	9.000	--	1	--	--	--	--
165	W3-3(2S)	II	--	36	x	36	--	9.000	--	1	--	--	--	--
166	R4-7(2S)	II	--	24	x	30	5.000	--	--	1	--	--	--	--
167	D2-2	II	WIS 38 5 RACINE 10	66	x	24	11.000	--	--	2	--	--	--	--
168	W4-2R(2S)	II	--	36	x	36	--	9.000	--	1	--	--	--	--
169	W4-2R(2S)	II	--	36	x	36	--	9.000	--	1	--	--	--	--
170	I55-56	--	--	--	x	--	--	--	--	1	1	1	--	MOVE - DO NOT REPLACE SIGN

TYPE I & II PERMANENT SIGNING -

SIGN NO.	SIGN CODE & SIZE	SIGN TYPE	SIGN MESSAGE	TYPE II SIGN SIZE W [IN.]	x	H [IN.]	637.2210 SIGNS TYPE II REFLC H [SF]	637.2230 SIGNS TYPE II REFLC F [SF]	637.2215 SIGNS TYPE II REFLC H FOLDING [SF]	634.0618 POSTS WOOD 4"X 6"x18' [EA]	638.3000 REMOVING SMALL SIGN SUPPORTS [EA]	638.2102 MOVE SIGNS TYPE II [EA]	MOUNT ON SAME POST AS SIGN #	REMARKS / NEW SIGN LOCATION
171	W6-2(2S)	II	--	36	x	36	--	9.000	--	1	--	--	--	--
172	R5-1A(2S)	II	--	36	x	24	6.000	--	--	--	--	--	171	BACK OF SIGN #171
173	R4-7(3)	II	--	36	x	48	12.000	--	--	1	--	--	--	--
174	W5-54(2S)	II	--	18	x	18	--	2.250	--	--	--	--	173	--
175	R5-1(2S)	II	--	30	x	30	6.250	--	--	1	--	--	--	--
176	W6-3(2S)	II	--	36	x	36	--	9.000	--	1	--	--	--	--
177	R2-1(3)	II	35 MPH	36	x	48	12.000	--	--	1	--	--	--	--
178	R2-1(2S)	II	55 MPH	24	x	30	5.000	--	--	1	--	--	--	--
179	W6-1(2S)	II	--	36	x	36	--	9.000	--	1	--	--	--	--
180	W3-5(2S)	II	35 MPH	36	x	36	--	9.000	--	1	--	--	--	--
181	I55-56	--	--	--	x	--	--	--	--	1	1	1	--	MOVE - DO NOT REPLACE SIGN
182	R5-1A(2S)	II	--	36	x	24	6.000	--	--	--	--	--	--	BACK OF EXISTING J3-4 ASSEMBLY
183	W3-3(2S)	II	--	36	x	36	--	9.000	--	1	--	--	--	--
184	R3-20L(2S)	II	--	24	x	36	6.000	--	--	1	--	--	--	--
185	J3-4(2S)	II	--	96	x	57	38.000	--	--	2	--	--	--	--
	MB4-5		--	24	x	12								
	M1-1		IH 41	24	x	24								
	MB6-1		--	21	x	21								
	MB4-5		--	24	x	12								
	M1-1		IH 94	24	x	24								
	MB6-1		--	21	x	21								
	M3-4		--	24	x	12								
	M1-5A		CTH K	24	x	24								
	M6-1		--	21	x	21								
	M3-2		--	24	x	12								
	M1-5A		CTH K	24	x	24								
	M6-1		--	21	x	21								
186	R5-1A(2S)	II	--	36	x	24	6.000	--	--	--	--	--	185	BACK OF SIGN #185
187	R3-20LL(2S)	II	--	24	x	36	6.000	--	--	1	--	--	--	--
188	J23-4	--	--	--	x	--	--	--	--	2	2	1	--	--
189	R4-7(2S)	II	--	24	x	30	5.000	--	--	1	--	--	--	--
190	R3-20LL(2S)	II	--	24	x	36	6.000	--	--	1	--	--	--	--
191	R5-1(2S)	II	--	30	x	30	6.250	--	--	1	--	--	--	--
192	R5-1(2S)	II	--	30	x	30	6.250	--	--	1	--	--	--	--
193	R6-2R(2S)	II	--	24	x	30	5.000	--	--	--	--	--	192	--
194	W3-3(2S)	II	--	36	x	36	--	9.000	--	1	--	--	--	--
--	--	--	--	--	x	--	--	--	--	--	--	--	--	--
TOTALS							943.240	272.500	82.160	153	28	29		

3

3

CATEGORY 1100
LIGHTING SYSTEM ITEMS

SPV.0105.101 MAINTENANCE OF LIGHTING SYSTEMS
SPV.0105.102 LIGHTING SYSTEM INTEGRATOR
SPV.0105.103 LIGHTING SYSTEM SURVEY

SYSTEM	LOCATION	SPV.0105.101 MAINTENANCE OF LIGHTING SYSTEMS	SPV.0105.102 LIGHTING SYSTEM INTEGRATOR	SPV.0105.103 LIGHTING SYSTEM SURVEY
		LS	LS	LS
HL-51-RJ	NE QUADRANT	1	1	1
TOTAL (1100)		1	1	1

CATEGORY 1100
LIGHTING REMOVAL ITEMS

653.0905 REMOVING PULL BOXES
SPV.0060.101 REMOVING LIGHTING UNITS
SPV.0060.102 LAMP DISPOSAL HIGH INTENSITY DISCHARGE
SPV.0090.101 REMOVING ELECTRICAL WIRE FROM CONDUIT

SYSTEM	LOCATION	653.0905 REMOVING PULL BOXES	SPV.0060.101 REMOVING LIGHTING UNITS	SPV.0060.102 LAMP DISPOSAL HIGH INTENSITY DISCHARGE	SPV.0090.101 REMOVING ELECTRICAL WIRE FROM CONDUIT
		EACH	EACH	EACH	LF
HL-51-RJ	CTH K	6	--	--	
HL-51-RJ	WEST FRONTAGE ROAD	--	4	4	200
HL-51-RJ	EAST FRONTAGE ROAD	--	4	4	220
HL-51-RJ	EAST OF IH 94	--	--	--	600
HL-51-RJ	WEST OF IH 94	--	--	--	1500
TOTAL (1100)		**6**	**8**	**8**	**2,520**

CATEGORY 1100
LIGHTING BRANCH CIRCUIT CONDUIT

652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH

SYSTEM	LOCATION TO LOCATION	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH
		LF
HL-51-RJ	EXISTING LPB104 TO LPB101	360
HL-51-RJ	LPB101 TO LPB102	65
HL-51-RJ	LPB102 TO POLE 33+90.00WB	25
HL-51-RJ	POLE 33+90.00WB TO STUBOUT WEST	15
HL-51-RJ	LPB102 TO LPB103	30
HL-51-RJ	LPB103 TO POLE 35+90.00EB	175
HL-51-RJ	POLE 35+90.00EB TO POLE 37+90.00EB	200
HL-51-RJ	POLE 37+90.00EB TO STUBOUT EAST	15
HL-51-RJ	LPB103 TO LPB104	50
HL-51-RJ	LPB104 TO LPB109	105
HL-51-RJ	LPB109 TO POLE 2058+60.00	20
HL-51-RJ	POLE 2058+60.00 TO STUBOUT SOUTH	15
HL-51-RJ	LPB101 TO LPB105	105
HL-51-RJ	LPB105 TO POLE 4054+09.97	15
HL-51-RJ	POLE 4054+09.97 TO STUBOUT NORTH	15
HL-51-RJ	LPB105 TO LPB106	80
HL-51-RJ	LPB106 TO LPB107	65
HL-51-RJ	LPB107 TO LPB108	25
HL-51-RJ	LPB108 TO POLE 32+30.00EB	15
HL-51-RJ	POLE 32+30.00EB TO STUBOUT WEST	15
HL-51-RJ	LPB107 TO POLE 30+30.00EB	205
HL-51-RJ	POLE 30+30.00EB TO POLE 28+30.00EB	200
HL-51-RJ	POLE 28+30.00EB TO STUBOUT WEST	15
	TOTAL (1100)	**1,830**

3

CATEGORY 1100
LIGHTING PULL BOX QUANTITIES

653.0140 PULL BOXES STEEL 24 X 42-INCH
655.0615 ELECTRICAL WIRE LIGHTING 10 AWG (GROUNDING WIRE)

SYSTEM	LOCATION	LABEL	653.0140 PULL BOXES STEEL 24 X 42	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG	COMMENTS
			EACH	LF	
HL-51-RJ	34+15.01WB, 58.32' LEFT	LPB101	1	100	CTH K
HL-51-RJ	34+15.01EB, 29.00' LEFT	LPB102	1	35	CTH K
HL-51-RJ	34+15.01EB, 05.00' LEFT	LPB103	1	65	CTH K
HL-51-RJ	34+15.01EB, 46.03' RIGHT	LPB104	1	115	CTH K
HL-51-RJ	4054+09.97, 16.00' LEFT	LPB105	1	25	WEST FRONTAGE ROAD
HL-51-RJ	32+36.00WB, 61.32' LEFT	LPB106	1	105	CTH K
HL-51-RJ	32+36.00EB, 30.93' LEFT	LPB107	1	50	CTH K
HL-51-RJ	32+36.00EB, 07.00' LEFT	LPB108	1	25	CTH K
HL-51-RJ	2058+77.46, 16.00' LEFT	LPB109	1	30	WEST FRONTAGE ROAD
	TOTAL (1100)		9	550	

3

CATEGORY 1100
LIGHT POLE QUANTITIES
240/480 VAC

654.0105 CONCRETE BASES TYPE 5
655.0610 ELECTRICAL WIRE LIGHTING 12 AWG
657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE
657.0322 POLES TYPE 5-ALUMINUM
657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT
659.1125 LUMINAIRES UTILITY LED C

SYSTEM	STATION	OFFSET	SEQUENCE I.D.	654.0105 CONCRETE BASES TYPE 5	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE	657.0322 POLES TYPE 5 ALUMINUM	657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT	659.1125 LUMINAIRES UTILITY LED C
				EACH	LF	EACH	EACH	EACH	EACH
HL-51-RJ	28+30.00EB	23.78' LEFT	BRJ4 / ARJ4	1	234	1	1	2	2
HL-51-RJ	30+30.00EB	30.45' LEFT	ARJ3 / BRJ3	1	234	1	1	2	2
HL-51-RJ	32+30.00EB	07.00' LEFT	BRJ2 / ARJ2	1	234	1	1	2	2
HL-51-RJ	33+90.00WB	07.00' RIGHT	CRJ1 / DRJ1	1	234	1	1	2	2
HL-51-RJ	35+90.00EB	05.00' LEFT	DRJ3 / CRJ3	1	234	1	1	2	2
HL-51-RJ	37+90.00EB	08.08' LEFT	CRJ4	1	117	1	1	1	1
HL-51-RJ	4054+20.00	16.00' LEFT	ARJ1 / BRJ1	1	234	1	1	2	2
HL-51-RJ	2058+60.00	16.00' LEFT	DRJ2 / CRJ2	1	234	1	1	2	2
TOTAL (1100)				**8**	**1,755**	**8**	**8**	**15**	**15**

PROJECT NO: 1030-11-71	HWY: IH 94 / CTH K	COUNTY: RACINE	MISCELLANEOUS QUANTITIES	SHEET:	E

3

CATEGORY 1100
LIGHTING WIRE QUANTITIES
120/240 VAC 3-WIRE ISOLATED NEUTRAL SYSTEM

655.0620 ELECTRICAL WIRE LIGHTING 8 AWG
655.0630 ELECTRICAL WIRE LIGHTING 4 AWG

SYSTEM	NETWORK	LOCATION TO LOCATION	DISTANCE	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG
				LF	LF
HL-51-RJ	C/D/N/G	LCC - HL-51-RJ TO EX.LPB 101 - EX. LPB104 TO LPB 101 TO LPB102 TO POLE 33+90.00WB	1,280	1,320	4,080
HL-51-RJ	C/D/N/G	POLE 33+90.00WB TO LPB102 TO LPB103 TO POLE 35+90.00EB	230	1,000	--
HL-51-RJ	C/N/G	POLE 35+90.00EB TO POLE 37+90.00EB	200	630	--
HL-51-RJ	C/D/N/G	POLE 33+90.00WB TO LPB102 TO LPB103 TO LPB104 TO LPB109 TO POLE 2058+60.00	230	1,040	--
HL-51-RJ	A/B/N/G	LCC (HL-51-RJ) TO EX.LPB 101 - EX. LPB104 TO LPB 101 TO LPB105 TO POLE 4054+20.00	1,310	1,350	4,170
HL-51-RJ	A/B/N/G	POLE 4054+20.00 TO LPB105 TO LPB106 TO LPB107 TO LPB108 TO POLE 32+30.00EB	200	920	--
HL-51-RJ	A/B/N/G	POLE 32+30.00EB TO LPB108 TO LPB107 TO POLE 30+30.00EB	245	1,780	--
HL-51-RJ	A/B/N/G	POLE 30+30.00EB TO POLE 28+30.00EB	200	840	--
		TOTAL (1100)		**8,880**	**8,250**

LIGHTING CONTROL CABINET - LCC

CTH K & EAST FRONTAGE RD
RACINE COUNTY
CATEGORY 1500
S51-1438

3

STATE FURNISHED MATERIALS SUMMARY

EACH	DESCRIPTION
1	TRAFFIC SIGNAL CONTROLLER, FULLY ACTUATED, 8 PHASE
1	TRAFFIC SIGNAL CABINET
4	POLES, TYPE 13
8	LUMINAIRE ARMS, STEEL, 15-FT
1	45-FT MONOTUBE ARM
3	50-FT MONOTUBE ARM

STATE FURNISHED FOR INFORMATION ONLY

SIGNAL BASE NO.	POLE TYPE 13 EACH	MONO 45' ARM EACH	MONO 50' ARM EACH	LUMINAIRE ARMS STEEL, 15-FT EACH
SB3	1		1	2
SB5	1	1		2
SB8	1		1	2
SB10	1		1	2
TOTAL	4	1	3	8

PULL BOXES

PULL BOX NO.	LOCATION*	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH
PB1	52+78.6WB, 78.0'LT		1
PB2	52+76.1WB, 60.8'LT		1
PB3	53+50.0WB, 46.0'LT		1
PB4	53+50.0WB, 7.0'RT		1
PB5	53+50.0WB, 31.0'RT		1
PB6	53+50.0WB, 74.0'RT		1
PB7	3055+32.0, 52.1'RT		1
PB8	3055+47.0, 11.0'LT		1
PB9	3055+53.6, 39.0'LT		1
PB10	51+38.0EB, 72.0'RT		1
PB11	50+44.4EB, 46.0'RT		1
PB12	50+44.4EB, 7.0'LT		1
PB13	50+44.4EB, 31.0'LT		1
PB14	50+44.4EB, 82.0'LT		1
PB15	5053+05.2, 89.6'LT		1
PB16	5052+93.1, 39.0'LT		1
PB17	5052+87.9, 17.0'LT		1
PB18	5052+73.9, 41.7'RT		1
PB19	5052+67.2, 70.2'RT		1
PB20	52+57.6WB, 36.2'LT		1
PB21	54+95.2WB, 46.0'LT	1	
PB22	52+78.2WB, 7.0'RT	1	
PB23	3055+56.0, 23.2'RT		1
PB24	3053+23.0, 27.9'RT	1	
PB25	51+38.8EB, 36.4'RT		1
PB26	48+84.3EB, 46.0'RT	1	
PB27	51+09.3EB, 7.0'LT	1	
PB28	5052+72.1, 67.9'LT		1
PB29	5054+91.6, 79.2'LT	1	
PB30	5052+61.5, 39.0'LT	1	
	***TOTAL	7	23

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

*** QUANTITY SHOWN ELSEWHERE ON PLAN

CONCRETE BASES

SIGNAL BASE NO.	LOCATION*	654.0101 CONCRETE BASES TYPE 1 EACH	654.0105 CONCRETE BASES TYPE 5 EACH	654.0113 CONCRETE BASES TYPE 13 EACH	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL EACH
CB1	52+80.1WB, 87.9'LT				1
SB1	52+42.7WB, 37.9'LT	1			
SB2	52+49.4WB, 33.3'LT	1			
SB3	52+61.1WB, 7.0'RT			1	
SB4	3055+73.1, 22.2'RT	1			
SB5	3055+76.3, 11.0'LT			1	
SB6	51+51.2EB, 37.5'RT	1			
SB7	51+43.6EB, 33.6'RT	1			
SB8	51+38.8EB, 7.0'LT			1	
SB9	5052+51.8, 66.4'LT	1			
SB10	5052+43.9, 39.0'LT			1	
SB11	54+61.1WB, 31.0'RT		1		
SB12	56+62.7WB, 19.2'RT		1		
SB13	3053+76.3, 32.7'LT		1		
SB14	49+48.8EB, 31.0'LT		1		
SB15	47+58.9EB, 25.6'LT		1		
SB16	5054+48.9, 29.8'LT		1		
TOTAL		6	6	4	1

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

CTH K & EAST FRONTAGE RD
RACINE COUNTY
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CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.
CB1	PB1		30
PB1	PB2		34
PB2	PB3		136
PB3	PB4		106
PB4	PB5		48
PB5	PB6		86
PB6	PB7		130
PB7	PB8		130
PB8	PB9		58
PB9	PB10		132
PB10	PB11		176
PB11	PB12		106
PB12	PB13		48
PB13	PB14		102
PB14	PB15		164
PB15	PB16		104
PB16	PB17		46
PB17	PB18		120
PB18	PB19		58
PB19	CB1		30
PB2	PB20		31
PB20	SB1	15	
PB20	SB2	9	
PB3	PB21	147	
PB4	PB22		72
PB22	SB3		17
PB5	SB11	110	
SB11	SB12	201	
PB7	PB23		38
PB23	SB4	17	
PB7	PB24	213	
PB8	SB5		29
PB9	SB13	177	
PB10	PB25		36
PB25	SB6	12	
PB25	SB7	6	
PB11	PB26	160	
PB12	PB27		65
PB27	SB8		30
PB13	SB14	96	
SB14	SB15	190	
PB15	PB28		40
PB28	SB9	20	
PB15	PB29	188	
PB16	PB30		32
PB30	SB10		18
PB17	SB16	98	
	***TOTAL	1659	2252

*** QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC DETECTOR LOOPS

LOOP NO.	HOME RUN PB	LOCATION*	SIZE (FT)x(FT)	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.	655.0800 LOOP DETECTOR WIRE L.F.
11 (FUTURE)	PB27	51+04.3EB, 20.0'LT	6'x20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	74	410	296
12 (FUTURE)	PB27	51+32.4EB, 20.0'LT	6'x20'	4	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	410	288
21	PB21	55+00.0WB, 18.0'LT	6'x6'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	256	296
22	PB21	55+00.0WB, 6.0'LT	6'x6'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	98	256	392
41	PB29	5054+91.5, 51.0'LT	6'x10'	4	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74	376	296
42	PB28	5052+74.4, 51.1'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	80	228	240
43	PB28	5052+46.4, 51.1'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	82	228	246
44	PB30	5052+65.1, 28.0'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	168	210
45	PB30	5052+37.1, 28.0'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	168	370
51 (FUTURE)	PB22	52+80.7WB, 20.0'RT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	72	234	216
52 (FUTURE)	PB22	52+52.7WB, 20.0'RT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	74	234	222
61	PB26	48+95.5EB, 18.0'RT	6'x6'	6	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76	558	456
62	PB26	48+95.5EB, 6.0'RT	6'x6'	6	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	98	558	588
81	PB24	3053+23.1, 6.0'RT	6'x6'	6	9F15-4B - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	62	507	372
82	PB23	3055+49.0, 7.0'RT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	82	332	246
83	PB23	3055+77.0, 7.0'RT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	78	332	234
84	PB9	3055+50.3, 28.0'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	388	210
85	PB9	3055+78.3, 28.0'LT	6'x20'	3	9F15-4A - LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)	70	388	210
					TOTAL	1376	6031	5018

* LOCATION IS TO FRONT CENTER OF DETECTOR LOOP

* * FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

CTH K & EAST FRONTAGE RD
RACINE COUNTY
CATEGORY 1500
S51-1438

3

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.	655.0305 CABLE TYPE UF 2-10 AWG GROUNDED L.F.
CB1	SB1		132	
CB1	SB2	126		
CB1	SB3		328	
CB1	SB4		474	
CB1	SB5		513	
CB1	SB6		675	
CB1	SB7	669		
CB1	SB8		581	
CB1	SB9		341	
CB1	SB10		263	
CB1	SB3			328
SB3	SB11			279
SB11	SB12			209
SB11	SB5			384
SB5	SB13			325
CB1	SB16			256
SB16	SB10			227
SB10	SB14			419
SB14	SB15			198
SB14	SB8			271
	***TOTAL	795	3307	2896

*** QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.
CB1	SB1	132
SB1	SB2	48
SB2	SB3	338
SB3	SB4	380
SB4	SB5	205
SB5	SB6	244
SB6	SB7	42
SB7	SB8	366
SB8	SB9	416
SB9	SB10	234
SB10	CB1	263
PB1	CB1	33
PB2	CB1	66
PB3	CB1	150
PB4	SB3	125
PB5	SB3	165
PB6	SB4	172
PB7	SB4	91
PB8	SB5	49
PB9	SB5	94
PB10	SB7	78
PB11	SB7	182
PB12	SB8	131
PB13	SB8	171
PB14	SB9	194
PB15	SB9	96
PB16	SB10	86
PB17	SB10	125
PB18	CB1	78
PB19	CB1	33
PB20	SB2	29
PB22	SB3	37
PB23	SB4	37
PB25	SB7	26
PB27	SB8	50
PB28	SB9	40
PB30	SB10	38
	TOTAL	5044

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.
SB1	HEAD 4		22
SB1	HEAD 13	19	
SB2	HEAD 6	19	
SB3	HEAD 2	60	
SB3	HEAD 3	72	
SB3	HEAD 5		35
SB4	HEAD 11	19	
SB4	HEAD 19		22
SB5	HEAD 17	64	
SB5	HEAD 20		43
SB6	HEAD 9		22
SB6	HEAD 18	19	
SB7	HEAD 1	19	
SB8	HEAD 7	60	
SB8	HEAD 8	72	
SB8	HEAD 10		35
SB9	HEAD 14		22
SB9	HEAD 16	19	
SB10	HEAD 12	70	
SB10	HEAD 15		37
	***TOTAL	512	238

*** QUANTITY SHOWN ELSEWHERE ON PLAN

TRAFFIC SIGNAL CABLE AND WIRE

FROM	TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.
SB3	LUMIN. (2)	288
SB5	LUMIN. (2)	288
SB8	LUMIN. (2)	288
SB10	LUMIN. (2)	288
SB11	LUMIN. (2)	234
SB12	LUMIN.	117
SB13	LUMIN.	117
SB14	LUMIN. (2)	234
SB15	LUMIN.	117
SB16	LUMIN. (2)	234
	TOTAL	2205

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PROJECT NO: 1030-11-71	HWY: CTH K	COUNTY: RACINE	MISCELLANEOUS QUANTITIES	SHEET: 251	E

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CTH K & EAST FRONTAGE RD
RACINE COUNTY
CATEGORY 1500
S51-1438

POLES

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0322 POLES TYPE 5 ALUMINUM EACH	657.0420 TRAFFIC SIGNAL STANDARDS ALUMINUM 13-FT EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT EACH	657.1360 INSTALL POLES TYPE 13 EACH	657.1545 INSTALL MONOTUBE ARMS 45-FT EACH	657.1550 INSTALL MONOTUBE ARMS 50-FT EACH	657.1815 INSTALL LUMINAIRE ARMS STEEL 15-FT EACH	659.1125 LUMINAIRES UTILITY LED C EACH
SB1	1				1						
SB2	1			1							
SB3							1		1	2	2
SB4	1				1						
SB5							1	1		2	2
SB6	1				1						
SB7	1			1							
SB8							1		1	2	2
SB9	1				1						
SB10							1		1	2	2
SB11		1	1			2					2
SB12		1	1			1					1
SB13		1	1			1					1
SB14		1	1			2					2
SB15		1	1			1					1
SB16		1	1			2					2
TOTAL	6	6	6	2	4	9	4	1	3	8	17

FACES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0110 TRAFFIC SIGNAL FACE 3-12 INCH VERTICAL EACH	658.0115 TRAFFIC SIGNAL FACE 4-12 INCH VERTICAL EACH	658.0215 BACKPLATES SIGNAL FACE 3 SECTION 12-INCH EACH	658.0220 BACKPLATES SIGNAL FACE 4 SECTION 12-INCH EACH	658.0600 LED MODULES 12-INCH RED BALL EACH	658.0605 LED MODULES 12-INCH YELLOW BALL EACH	658.0610 LED MODULES 12-INCH GREEN BALL EACH	658.0615 LED MODULES 12-INCH RED ARROW EACH	658.0620 LED MODULES 12-INCH YELLOW ARROW EACH	658.0625 LED MODULES 12-INCH GREEN ARROW EACH
1	SB7	1		1		1	1	1			
2	SB3	1		1		1	1	1			
3	SB3	1		1		1	1	1			
4	SB1		1		1				1	2	1
5	SB3		1		1				1	2	1
6	SB2	1		1		1	1	1			
7	SB8	1		1		1	1	1			
8	SB8	1		1		1	1	1			
9	SB6		1		1				1	2	1
10	SB8		1		1				1	2	1
11	SB4	1		1		1	1	1			
12	SB10	1		1		1	1	1			
13	SB1	1		1		1	1	1			
14	SB9		1		1				1	2	1
15	SB10		1		1				1	2	1
16	SB9	1		1		1	1	1			
17	SB5	1		1		1	1	1			
18	SB6	1		1		1	1	1			
19	SB4		1		1				1	2	1
20	SB5		1		1				1	2	1
TOTAL		12	8	12	8	12	12	12	8	16	8

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3

ELECTRICAL SERVICE METER BREAKER PEDESTAL

LOCATION*	656.0200.001 ELECTRICAL SERVICE METER BREAKER PEDESTAL L.S.
CTH K & EAST FRONTAGE RD	1
TOTAL	1

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.001 SIGNAL MOUNTING HARDWARE L.S.
CTH K & EAST FRONTAGE RD	1
TOTAL	1

INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET

LOCATION	SPV.0105.300 INSTALL STATE FURNISHED TRAFFIC SIGNAL CABINET L.S.
CTH K & EAST FRONTAGE RD	1
TOTAL	1

TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS

LOCATION	SPV.0105.301 TRANSPORT TRAFFIC SIGNAL AND INTERSECTION LIGHTING MATERIALS L.S.
CTH K & EAST FRONTAGE RD	1
TOTAL	1

CTH K & EAST FRONTAGE RD
RACINE COUNTY
CATEGORY 1500
COMMUNICATIONS

3

CONDUIT

FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.	652.0605 CONDUIT SPECIAL 2-INCH L.F.
EX. FTMS MH	I/C PB1	51	
I/C PB1	I/C PB2		61
I/C PB2	EXT1	174	
I/C PB5	CB1 (S51-1438)	194	
	***TOTAL	419	61

*** QUANTITY SHOWN ELSEWHERE ON PLAN

PULL BOXES

PULL BOX NO.	LOCATION*	653.0140 PULL BOXES STEEL 24x42-INCH EACH
I/C PB1	44+05.1EB, 67.8'LT	1
I/C PB2	44+65.0EB, 75.5'LT	1
	***TOTAL	2

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
*** QUANTITY SHOWN ELSEWHERE ON PLAN

FIELD SYSTEM INTEGRATOR

LOCATION		670.0100 FIELD SYSTEM INTEGRATOR L.S.	670.0200 ITS DOCUMENTATION L.S.	678.0500 COMMUNICATION SYSTEM TESTING L.S.
1030-11-71		1	1	1
	TOTAL	1	1	1

FIBER OPTIC TRACER WIRE

FROM	TO	SPV.0090.300 FIBER OPTIC TRACER WIRE L.F.
EX FTMS MH	I/C PB1	51
I/C PB1	I/C PB2	61
I/C PB2	I/C PB3	358
I/C PB3	I/C PB4	73
I/C PB4	I/C PB5	199
I/C PB5	CB1 (S51-1438)	194
	TOTAL	936

FIBER OPTIC COMMUNICATIONS EQUIPMENT

LOCATION		**SPV.0105.302 INSTALL FIBER OPTIC COMMUNICATIONS IN CABINET L.S.	ST-ST SINGLE MODE FIBER JUMPER 2-CT CONTRACTOR FURNISHED L.F.	CAT-5E CABLE 1-METER CONTRACTOR FURNISHED EACH	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT STATE FURNISHED L.F.	ETHERNET SWITCH 2-PORT STATE FURNISHED EACH
CB1 (S51-1438)		1	2	2	1133	1
	TOTAL	1	2	2	1133	1

**PAY ITEM INCLUDES INSTALLATION OF BOTH CONTRACTOR FURNISHED AND STATE FURNISHED MATERIALS

STATE FURNISHED MATERIALS SUMMARY

QUANTITY	UNIT	DESCRIPTION
1	EACH	ETHERNET SWITCH 2-PORT
1133	L.F.	PATCH PANEL WITH FIBER OPTIC CABLE PIGTAIL 8-CT

CONTRACTOR FURNISHED MATERIALS SUMMARY

QUANTITY	UNIT	DESCRIPTION
2	EACH	CAT-5E CABLE 1-METER
2	L.F.	ST-ST SINGLE MODE FIBER OPTIC JUMBER 2-CT

TRANSPORTATION PROJECT PLAT NO: 1030-11-20 - 4.01

THAT PART OF THE NORTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 25, TOWNSHIP 04 NORTH, RANGE 21 EAST, IN THE TOWN OF RAYMOND, RACINE COUNTY, WISCONSIN.

AMENDMENT NO.2:

AMENDS PARCEL NO. 12,13,14 AND EXISTING C/L IH-94 OF TRANSPORTATION PROJECT PLAT NO. 1030-11-20 - 4.01
AMENDMENT NO. 1 RECORDED AS DOCUMENT NO. 2245538

RELOCATION ORDER I-94 @ CTH "K" RACINE COUNTY

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 PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 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 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 SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LINE COURSE TABLE

LINE	PARCEL	BEARING	DISTANCE
L1	1	S 77°42'30" E	57.42'
L2	1	S 44°08'40" E	26.58'
L3	8	N 46°11'12" E	35.48'
L4	8	N 01°22'51" E	150.70'
L5	12	N 43°52'04" W	51.31'
L6	12	N 44°57'15" E	81.43'
L7	8	N 89°00'27" W	29.65'
L8	10	N 00°59'33" E	31.95'
L9	46	N 00°59'33" E	148.70'
L10	2	N 00°59'33" E	208.70'
L11	2	N 89°00'27" W	99.00'
L12	2	N 00°43'07" E	145.70'
L13	2	N 89°00'27" W	100.00'
L14	14	N 44°27'03" W	67.62'
L15	1	N 89°00'27" W	8.65'
L16	10	N 00°59'33" E	148.70'

BASIS OF RIGHT-OF-WAY

HWY	BASIS OF EXIST R/W	YEAR	WIDTH
I-94/USH 41	DJ 2381	1935	VARIES
I-94/USH 41	DJ 2277	1934	VARIES
I-94/USH 41	I 101-1 (3)	1956	VARIES
CTH "K"	I 101-1 (3)	1956	VARIES
CTH "K"	BY STATUTE 82.81	----	66'
CTH "K"	2804-2-71	1972	VARIES

GENERAL NOTES:

FOR THE PURPOSE OF HORIZONTAL ADJUSTMENT, WISCONSIN DOT SOUTHEAST REGION SURVEY HAS FIELD VERIFIED GPS CONTROL STATIONS FOR THE FOLLOWING TOWNSHIPS: YORKVILLE EAST, RAYMOND NORTH AND RAYMOND SOUTH.

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, (ENGLISH), NAD 1983 (1997) ADJUSTMENT. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

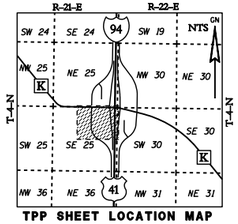
I-94 ACCESS WAS PREVIOUSLY CONTROLLED PER PROJECT I 101-1 (3).

PLAT NOTES:

THE CONSULTANT IS NOT RESPONSIBLE FOR PARCEL 2, WHICH HAS BEEN ACQUIRED ON A PREVIOUS PLAT PREPARED BY DOT. THE CONSULTANT WAS PROVIDED WITH THE EXISTING C/L IH-94 VIA DOT SE DISTRICT 05/2010

BASED ON LEGAL DESCRIPTIONS FOR PARCELS 1, 2, 3, 8, 9, 10 AND 13 TO THE EAST, OCCUPATION LINES TO THE EAST, AND THE SIXTEENTH LINE TO THE WEST OF THIS PART OF PARCEL 7. THE WIDTH OF PARCEL 7 IS APPROXIMATELY 82 FEET WIDE INSTEAD OF THE RECORDED 100.00 FEET.

COMMUNITY WELL ON PARCEL 11 SERVING PARCELS 3,7,8,10 & 12 TO BE CAPPED AT EAST R/W LINE OF WEST RELOCATED FRONTAGE ROAD. PARCEL 7 TO BE SERVED BY NEW WELL.

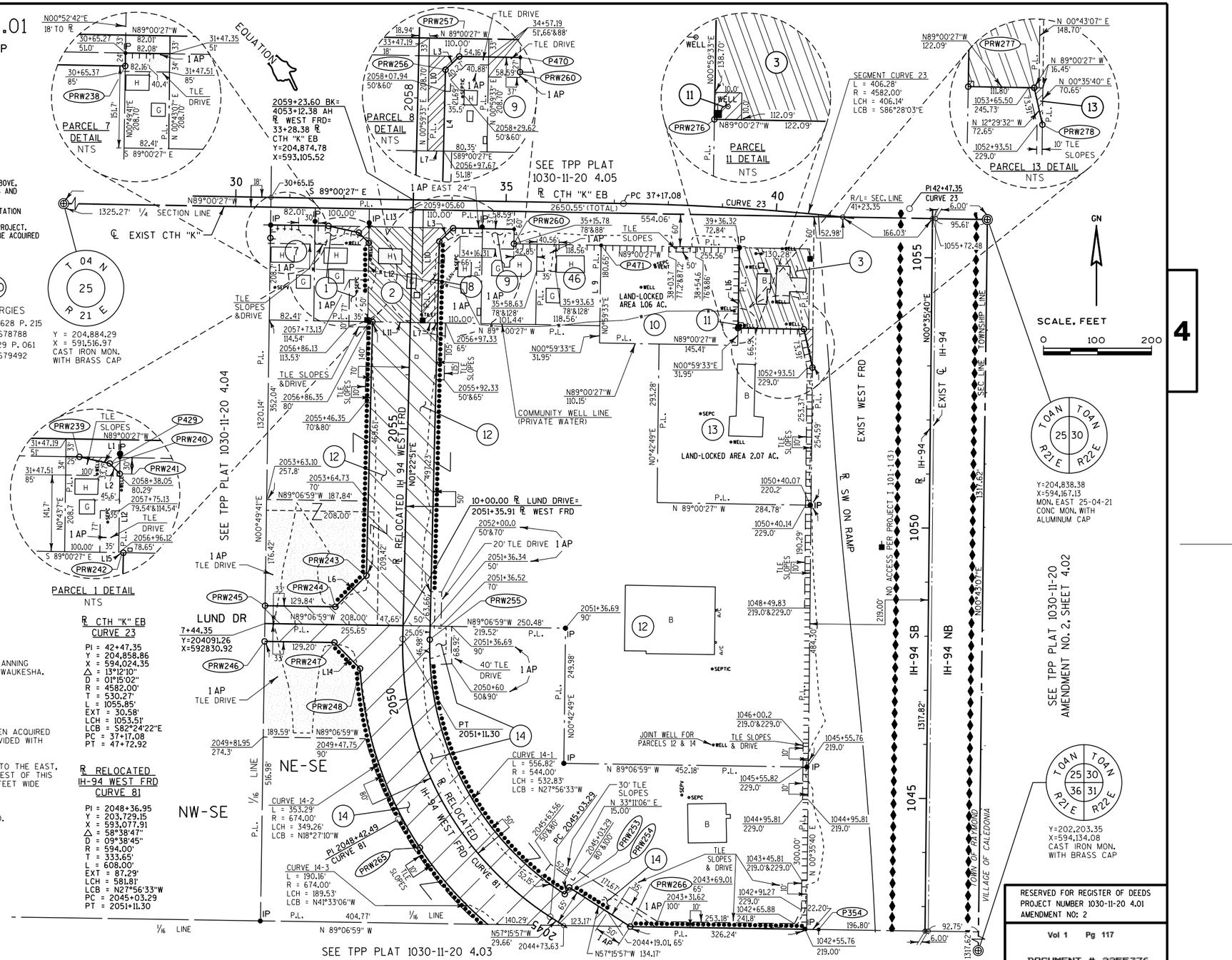


TPP SHEET LOCATION MAP

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	TLE TEMP. ACRES
1	RICHARD A. & DEBRA E. BAUMANN	FEE,AR,TLE	0.016	0.076	0.092	0.124
2	KENDALL A. & CATHERINE McCANN	FEE	0.401	0.076	0.477	0.000
3	DONATH A.ROETTGERS VENDOR & HWY K, LLC VENDEE	FEE	0.446	0.000	0.440	0.000
7	CHAD J. WILKS	FEE,AR,TLE	0.000	0.062	0.062	0.064
8	ROBERT LUND	FEE,AR,TLE	0.130	0.083	0.213	0.041
9	SHELIA M. JORGENSEN	FEE,AR,TLE	0.000	0.044	0.044	0.050
10	THOMAS A HRIBAR	AR,TLE	0.000	0.000	0.000	0.012
11	ROBERT E. & ROBERTA H. TUGENBERG	FEE	0.002	0.000	0.002	0.000
12	SCOTT MILES TRUST	FEE,AR,TLE	1.724	0.000	1.724	0.975
13	FRANKLIN H. & SHARON F WELCH	FEE,AR,TLE	0.013	0.000	0.013	0.081
14	JAVCO REALTY LLP	FEE,AR,TLE	2.155	0.000	2.155	1.151
46	THOMAS B. & JUDITH A. KING	AR,TLE	0.000	0.000	0.000	0.040
50	VACATED	---	---	---	---	---
100	WE ENERGIES	ROR	---	---	---	---



WELL AGREEMENTS

PARCEL	VOLUME	DOCUMENT
7	V. 574 P. 161	DOC. 630776
3,7,8,10,12	V. 753 P. 052	DOC. 740847
3,7,8,10,12	V. 840 P. 139	DOC. 778188
1	V. 561 P. 170	DOC. 617584
2	V. 574 P. 163	DOC. 630777
12,14	V. 1753 P. 496	DOC. 1169486

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOC. 2219602 IN THE RACINE COUNTY REGISTER OF DEEDS

I, TIMOTHY JOHNSON, 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 DEPARTMENT OF TRANSPORTATION-SOUTHEAST REGION, HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1030-11-20 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

STATE OF WISCONSIN TIMOTHY JOHNSON No. S-2156 EAST TROY WIS. REGISTERED LAND SURVEYOR

BLOOM COMPANIES, LLC
Infrastructure Innovation and Ingenuity

DATE 7-6-2010

TIMOTHY JOHNSON, RLS NUMBER S-2156

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.

DATE 6-29-2010

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-20 4.01
AMENDMENT NO: 2

Vol 1 Pg 117

DOCUMENT # 2255376
RACINE COUNTY REGISTER OF DEEDS
July 13, 2010 4:45 PM

JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

255

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

TRANSPORTATION PROJECT PLAT NO: 1030-11-20 - 4.02

THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 30, TOWNSHIP 4 NORTH, RANGE 22 EAST, IN THE VILLAGE OF CALEDONIA, RACINE COUNTY, WISCONSIN.

AMENDMENT NO.2:

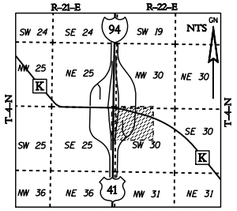
AMENDS EXISTING C/L IH-94 OF TRANSPORTATION PROJECT PLAT NO. 1030-11-20 - 4.02 AMENDMENT NO. 1 RECORDED AS DOCUMENT NO. 2219602

RELOCATION ORDER I-94 @ CTH "K" RACINE COUNTY

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 PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 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 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 SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



TPP SHEET LOCATION MAP

GN

SCALE, FEET

0 100 200

BASIS OF RIGHT-OF-WAY

HWY	BASIS OF EXIST R/W	YEAR	WIDTH
I-94/USH 41	DJ 2381	1935	VARIES
I-94/USH 41	DJ 2277	1934	VARIES
I-94/USH 41	I 101-1 (3)	1956	VARIES
CTH "K"	I 101-1 (3)	1956	VARIES
CTH "K"	BY STATUTE 82.81	----	66'
CTH "K"	2804-2-71	1972	VARIES

GENERAL NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, (ENGLISH), NAD 1983 (1997) ADJUSTMENT. ALL DISTANCES ARE GROUND LENGTH.

FOR THE PURPOSE OF HORIZONTAL ADJUSTMENT, WISCONSIN DOT SOUTHEAST REGION SURVEY HAS FIELD VERIFIED GPS CONTROL STATIONS FOR THE FOLLOWING TOWNSHIPS: YORKVILLE EAST, RAYMOND NORTH AND RAYMOND SOUTH.

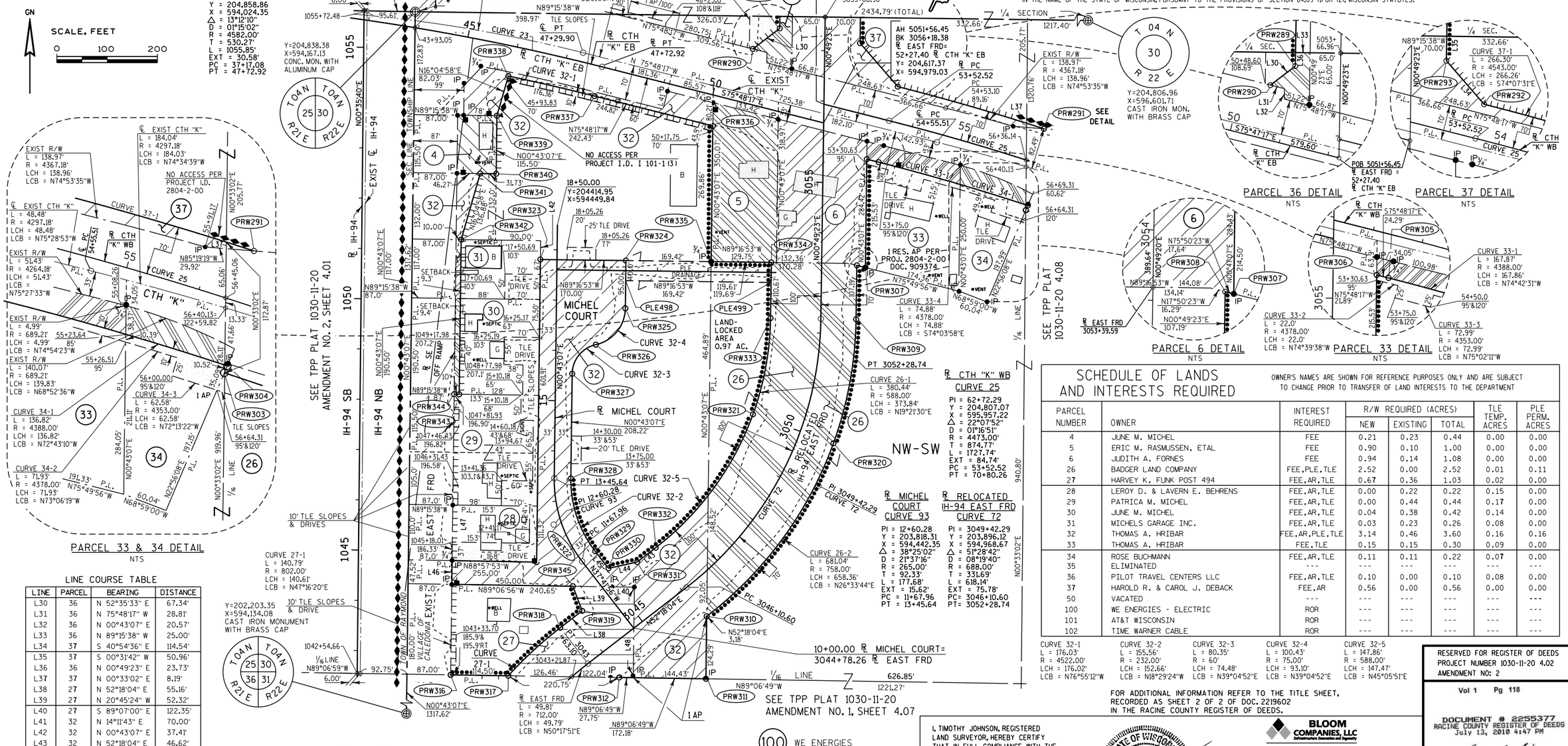
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

I-94 ACCESS WAS PREVIOUSLY CONTROLLED PER PROJECT I 101-1(3).

TLE IMPACTS FOR PARCELS 28,29 AND 30 SHALL NOT APPLY IN AREAS OCCUPIED BY EXISTING BUILDINGS.

PLAT NOTE:

THE CONSULTANT IS NOT RESPONSIBLE FOR PARCELS 4, 5 AND 6, WHICH WERE ACQUIRED ON A PREVIOUS PLAT PREPARED BY DOT. THE CONSULTANT WAS PROVIDED WITH THE EXISTING C/L IH-94 VIA DOT SE DISTRICT 05/2010



LINE COURSE TABLE

LINE	PARCEL	BEARING	DISTANCE
L30	36	N 52°35'33" E	67.34'
L31	36	N 75°48'17" W	28.81'
L32	36	N 00°43'07" E	20.57'
L33	36	N 89°15'38" W	25.00'
L34	37	S 40°54'36" E	114.54'
L35	37	S 00°31'42" W	50.96'
L36	36	N 00°49'23" E	23.73'
L37	37	N 00°33'02" E	8.19'
L38	27	N 52°18'04" E	55.16'
L39	27	N 20°45'24" W	52.32'
L40	27	S 89°07'00" E	122.35'
L41	32	N 14°11'43" E	70.00'
L42	32	N 00°43'07" E	37.41'
L43	32	N 52°18'04" E	46.62'
L44	32	N 77°40'24" E	58.34'
L45	32	S 37°41'56" E	42.96'
L46	32	N 00°43'01" E	47.29'
L47	27-29	N 00°43'07" E	558.25'
L48	27	N 00°43'07" E	180.03'

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	TLE TEMP. ACRES	PLE PERM. ACRES
4	JUNE M. MICHEL	FEE	0.21	0.23	0.44	0.00	0.00
5	ERIC M. RASMUSSEN, ETAL	FEE	0.90	0.10	1.00	0.00	0.00
6	JUDITH A. FORNES	FEE	0.94	0.14	1.08	0.00	0.00
26	BADGER LAND COMPANY	FEE,PLE,TLE	2.52	0.00	2.52	0.01	0.11
27	HARVEY K. FUNK POST 494	FEE,AR,TLE	0.67	0.36	1.03	0.02	0.00
28	LEROY D. & LAVERN E. BEHRENS	FEE,AR,TLE	0.00	0.22	0.22	0.15	0.00
29	PATRICA M. MICHEL	FEE,AR,TLE	0.00	0.44	0.44	0.17	0.00
30	JUNE M. MICHEL	FEE,AR,TLE	0.04	0.38	0.42	0.14	0.00
31	MICHELS GARAGE INC.	FEE,AR,TLE	0.03	0.23	0.26	0.08	0.00
32	THOMAS A. HRIBAR	FEE,AR,PLE,TLE	3.14	0.46	3.60	0.16	0.16
33	THOMAS A. HRIBAR	FEE,TLE	0.15	0.15	0.30	0.09	0.00
34	ROSE BUCHMANN	FEE,AR,TLE	0.11	0.11	0.22	0.07	0.00
35	ELIMINATED	---	---	---	---	---	---
36	PILOT TRAVEL CENTERS LLC	FEE,AR,TLE	0.10	0.00	0.10	0.08	0.00
37	HAROLD R. & CAROL J. DEBACK	FEE,AR	0.56	0.00	0.56	0.00	0.00
50	VACATED	---	---	---	---	---	---
100	WE ENERGIES - ELECTRIC	ROR	---	---	---	---	---
101	AT&T WISCONSIN	ROR	---	---	---	---	---
102	TIME WARNER CABLE	ROR	---	---	---	---	---

CURVE 32-1: L = 176.03', R = 4522.00', LCH = 176.02', LCB = N76°55'12"W

CURVE 32-2: L = 155.56', R = 232.00', LCH = 152.66', LCB = N18°29'24"W

CURVE 32-3: L = 80.35', R = 60', LCH = 74.48', LCB = N39°04'52"E

CURVE 32-4: L = 100.43', R = 75.00', LCH = 93.10', LCB = N39°04'52"E

CURVE 32-5: L = 147.86', R = 588.00', LCH = 147.47', LCB = N45°05'51"E

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOC. 2219602 IN THE RACINE COUNTY REGISTER OF DEEDS.

DRAINAGE AGREEMENTS

PARCEL	VOLUME	DOCUMENT
26,37	V. 331 P. 115	DOC. NO. 423463
26,36,37	V. 1644 P. 660	DOC. NO. 1104147
26,36,37	V. 1646 P. 335	DOC. NO. 1105316
38	V. 1084 P. 638	DOC. NO. 881690

100 WE ENERGIES

PAR 5,6,26,33,34,37 V. 331 P. 115 DOC. NO. 423463
PAR 32 V. 2160 P. 143 DOC. NO. 1379517
PAR 36 V. 2353 P. 974 DOC. NO. 1458536
PAR 37 V. 331 P. 118 DOC. NO. 423466
PAR 37 V. 331 P. 124 DOC. NO. 423472
PAR 38 V. 331 P. 122 DOC. NO. 423470

100 WE ENERGIES & 101 AT&T
PAR 32 V. 2160 P. 143
DOC. NO. 1379517

I, TIMOTHY JOHNSON, 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 DEPARTMENT OF TRANSPORTATION-SOUTHEAST REGION, HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1030-11-20 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

STATE OF WISCONSIN — TIMOTHY JOHNSON S-2156 — REGISTERED LAND SURVEYOR

BLOOM COMPANIES, LLC

DATE 7-6-2010

TIMOTHY JOHNSON, RLS NUMBER S-2156

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.

DATE 7-7-2010

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-20 4.02
AMENDMENT NO: 2

Vol 1 Pg 118

DOCUMENT # 2255377
RACINE COUNTY REGISTER OF DEEDS
July 13, 2010 4:47 PM

JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

FILE NAME : F:\BM1-1644D CTH K\Survey\ck_040402_rp.dgn
PLOT DATE : 06-JUL-2010 16:01
PLOT BY : jmueller
PLOT NAME :
PLOT SCALE : 100:1
CONST. 1030-11-70 CTH K R/W 1030-11-20 4.02
THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

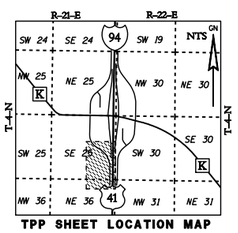
TRANSPORTATION PROJECT PLAT NO: 1030-11-20 - 4.03

THAT PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 25, TOWNSHIP 4 NORTH, RANGE 21 EAST, IN THE TOWN OF RAYMOND, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 @ CTH "K" RACINE COUNTY

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 PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 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 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 SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



TPP SHEET LOCATION MAP

GENERAL NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, (ENGLISH), NAD 1983 (1997) ADJUSTMENT. ALL DISTANCES ARE GROUND LENGTH.

FOR THE PURPOSE OF HORIZONTAL ADJUSTMENT, WISCONSIN DOT SOUTHEAST REGION SURVEY HAS FIELD VERIFIED GPS CONTROL STATIONS FOR THE FOLLOWING TOWNSHIPS: YORKVILLE EAST, RAYMOND NORTH AND RAYMOND SOUTH.

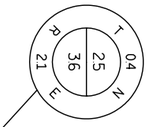
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

I-94 ACCESS WAS PREVIOUSLY CONTROLLED PER PROJECT I 101-1(3).

BASIS OF RIGHT-OF-WAY

HWY	BASIS OF EXIST R/W	YEAR	WIDTH
I-94/USH 41	DJ 2381	1935	VARIES
I-94/USH 41	DJ 2277	1934	VARIES
I-94/USH 41	I 101-1(3)	1956	VARIES
3 MILE ROAD	BY STATUTE 82.81	---	66'



Y=202,239.33
X=591,473.71
CAST IRON MONUMENT
WITH BRASS CAP

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	TLE TEMP. ACRES	PLE PERM. ACRES
23	GILBERT & AUDREY HAGEMANN	FEE, AR, TLE	3.716	0.00	3.716	0.324	0.00
--	---	---	---	---	---	---	---

PLAT NOTE:

THE CONSULTANT WAS PROVIDED WITH THE EXISTING C/L IH-94 VIA DOT SE DISTRICT 05/2010

DOT DISTRICT NOTE:

THE SECTION CORNER LOCATION FOR THE NE CORNER OF SEC. 36-4-21 ON I-101-1(3) WAS NOT SHOWN ACCURATELY. THE FIELD DISTANCE FROM THE SECTION CORNER LOCATION TO THE CENTERLINE OF I-94 SHOULD HAVE BEEN LISTED AS 89.90 FEET RATHER THAN 95.44 FEET. THE SECTION CORNER LOCATION DID NOT MOVE. THE TIE DISTANCE WAS SHOWN INCORRECTLY.

℄ IH-94
CURVE 11
PI = 1019+70.32
Y = 201,238.16
X = 594,028.16
△ = 00°57'02"
D = 00°06'00"
R = 57289.78
T = 475.29
L = 950.56
EXT = 1.97
LCH = 950.55'
LCB = N01°04'11"E
PC = 1014+95.03
PT = 1024+45.59

℄ RELOCATED IH-94 WEST FRD
CURVE 80
PI = 2039+17.83
Y = 203,186.59
X = 593,921.92
△ = 58°50'05"
D = 6°51'42"
R = 835.00'
T = 470.83'
L = 857.43'
EXT = 123.60'
LCH = 820.25'
LCB = N27°50'54"W
PC = 2034+46.99
PT = 2043+04.42

CURVE 23-1
L = 409.61'
R = 755.00'
LCH = 404.60'
LCB = N13°58'23"W

CURVE 23-2
L = 365.68'
R = 755.00'
LCH = 362.11'
LCB = N43°23'26"W

CURVE 23-3
L = 89.77'
R = 674.00'
LCH = 89.71'
LCB = N53°27'00"W

BEGIN PROJECT 1030-11-20
STA. 1024+00 ℄ IH-94
Y = 201,667.83
X = 594,032.60

POB 2027+50.00
Y=202,019.21
X=593,889.94

Y=202,203.35
X=594,134.08
CAST IRON MONUMENT
WITH BRASS CAP

Y=204,838.38
X=594,167.13
CONC MON. WITH
ALUMINUM CAP

SCALE, FEET
0 100 200

SEE TPP PLAT 1030-11-20
AMENDMENT NO. 2, SHEET 4.01

SEE TPP PLAT 1030-11-20
AMENDMENT NO. 1, SHEET 4.07

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOC. 2219602 IN THE RACINE COUNTY REGISTER OF DEEDS

I, TIMOTHY JOHNSON, 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 DEPARTMENT OF TRANSPORTATION-SOUTHEAST REGION, HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1030-11-20 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

STATE OF WISCONSIN
TIMOTHY JOHNSON
No. S-2156
EAST TROY
WIS.
REGISTERED LAND SURVEYOR

BLOOM COMPANIES, LLC
DATE 6/23/10
TIMOTHY JOHNSON, RLS NUMBER S-2156

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.
DATE 6-29-2010
C E Andersen

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-20 4.03

Vol 1 Pg 111
DOCUMENT # 2255370
RACINE COUNTY REGISTER OF DEEDS
July 13, 2010 4:24 PM
James A. Ladwig
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

FILE NAME : F:\BM1-1644D CTH K\Survey\ck_040403_rp.dgn PLOT DATE : 23-JUN-2010 14:21 PLOT BY : Kdew PLOT NAME : PLOT SCALE : 100:1

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

CONST. 1030-11-70 CTH K R/W 1030-11-20 4.03

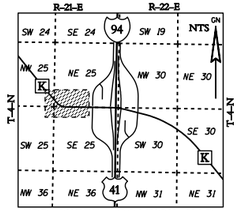
TRANSPORTATION PROJECT PLAT NO: 1030-11-20 - 4.04

THAT PART OF PARCEL 1, CSM 2749, THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHEAST 1/4, THAT PART OF THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4, THAT PART OF THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4, OF SECTION 25, TOWNSHIP 4 NORTH, RANGE 21 EAST, IN THE TOWN OF RAYMOND, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 @ CTH "K" RACINE COUNTY

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 PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 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 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 SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



TPP SHEET LOCATION MAP

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

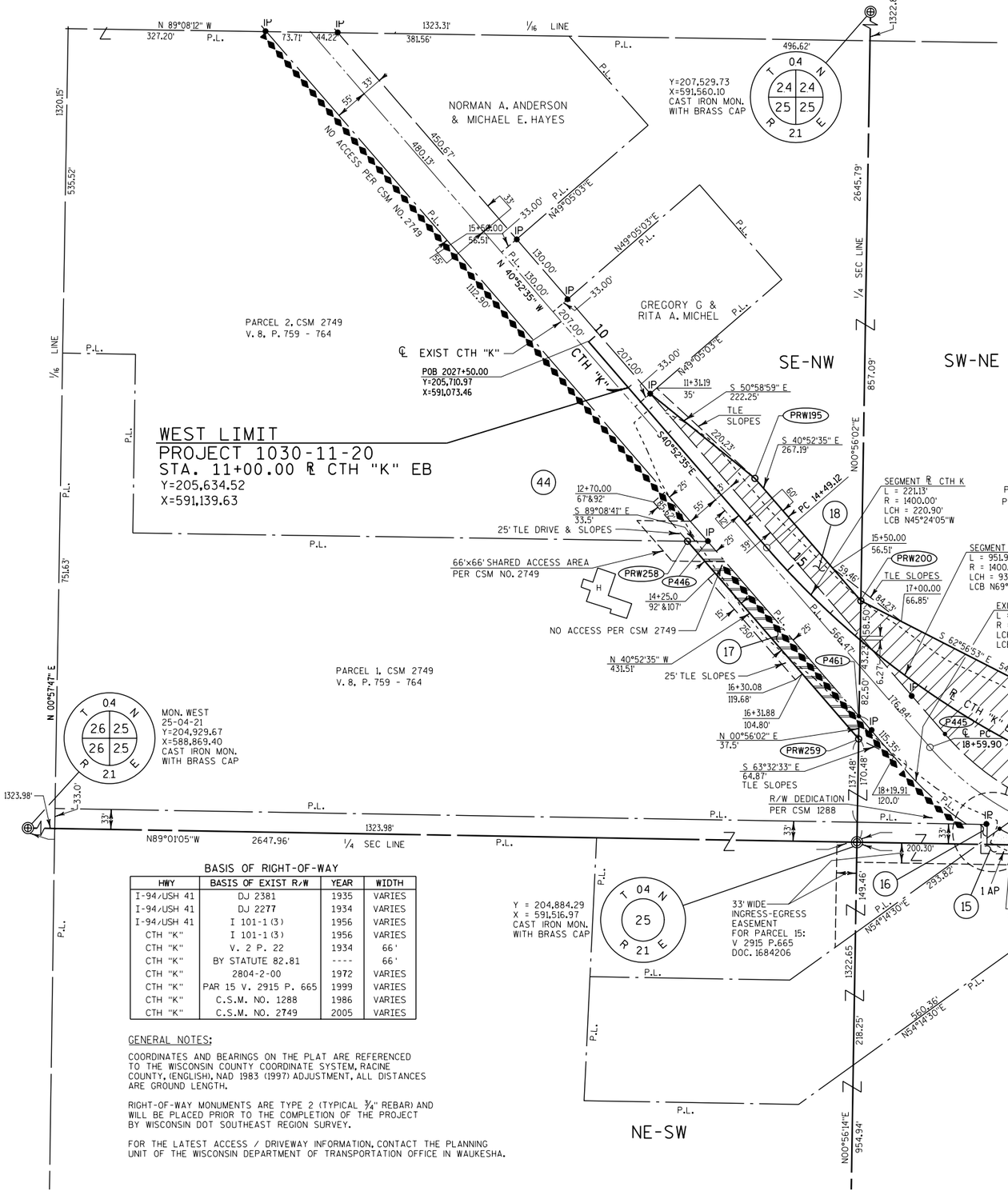
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	TLE TEMP. ACRES
15	KERRY S DIETER AND DONNA D. DIETER	TLE	0.000	0.000	0.000	0.064
16	SUSAN J. LENART	TLE	0.000	0.000	0.000	0.012
17	CARL G. FREITAG	FEE,TLE	0.233	0.000	0.233	0.101
18	OMEGA INVESTMENT INC.	FEE,AR,TLE	3.991	1.501	5.492	0.320
44	AMERICAN PROPERTIES, LLC	TLE	0.000	0.000	0.000	0.056
45	JEFFERY P. SWEET	FEE,AR,TLE	0.413	0.647	1.060	0.206
--	---	---	---	---	---	---
100	WE ENERGIES - ELECTRIC	ROR	---	---	---	---

DRAIN TILE EASEMENT

PARCEL	VOLUME	DOCUMENT
15	V. 536 P. 650	DOC. NO. 592979
16	V. 536 P. 650	DOC. NO. 592979

WELL AGREEMENT

PARCEL	VOLUME	DOCUMENT
15	V. 1434 P. 525	DOC. NO. 1023993
16	V. 1434 P. 525	DOC. NO. 1023993



BASIS OF RIGHT-OF-WAY

HWY	BASIS OF EXIST R/W	YEAR	WIDTH
I-94/USH 41	DJ 2381	1935	VARIES
I-94/USH 41	DJ 2277	1934	VARIES
I-94/USH 41	I 101-1(3)	1956	VARIES
CTH "K"	I 101-1(3)	1956	VARIES
CTH "K"	V. 2 P. 22	1934	66'
CTH "K"	BY STATUTE 82.81	----	66'
CTH "K"	2804-2-00	1972	VARIES
CTH "K"	PAR 15 V. 2915 P. 665	1999	VARIES
CTH "K"	C.S.M. NO. 1288	1986	VARIES
CTH "K"	C.S.M. NO. 2749	2005	VARIES

GENERAL NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, (ENGLISH), NAD 1983 (1997) ADJUSTMENT, ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOC. 2219602 IN THE RACINE COUNTY REGISTER OF DEEDS

I, TIMOTHY JOHNSON, 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 DEPARTMENT OF TRANSPORTATION-SOUTHEAST REGION, HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1030-11-20 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

STATE OF WISCONSIN
TIMOTHY JOHNSON
NO. S-2156
EAST TROY WI
REGISTERED LAND SURVEYOR

BLOOM COMPANIES, LLC
Infrastructure Innovation and Ingenuity

DATE 6/23/10

TIMOTHY JOHNSON, RLS NUMBER S-2156

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.

DATE 6-29-2010

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-20 4.04

Vol 1 Pg 112

DOCUMENT # 2255371
RACINE COUNTY REGISTER OF DEEDS
July 13, 2010 4:25 PM

JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

FILE NAME : F:\BM1-1644D CTH K\Survey\ck_040404_rp.dgn PLOT DATE : 23-JUN-2010 14:21 PLOT BY : kdew PLOT NAME : PLOT SCALE : 100:1

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

CONST. 1030-11-70 CTH K R/W 1030-11-20 4.04

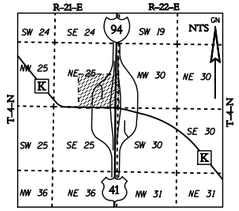
TRANSPORTATION PROJECT PLAT NO: 1030-11-20 - 4.05

THAT PART OF THE SOUTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 25, TOWNSHIP 4 NORTH, RANGE 21 EAST, IN THE TOWN OF RAYMOND, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 @ CTH "K" RACINE COUNTY

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 PROJECT.

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TPP SHEET LOCATION MAP

BASIS OF RIGHT-OF-WAY

HWY	BASIS OF EXIST R/W	YEAR	WIDTH
I-94/USH 41	DJ 2381	1935	VARIES
I-94/USH 41	DJ 2277	1934	VARIES
I-94/USH 41	I 101-1 (3)	1956	VARIES
CTH "K"	I 101-1 (3)	1956	VARIES
CTH "K"	V. 2 P. 22	1934	66'
CTH "K"	BY STATUTE 82.81	----	66'
CTH "K"	2804-2-71	1972	VARIES

GENERAL NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, (ENGLISH), NAD 1983 (1997) ADJUSTMENT. ALL DISTANCES ARE GROUND LENGTH.

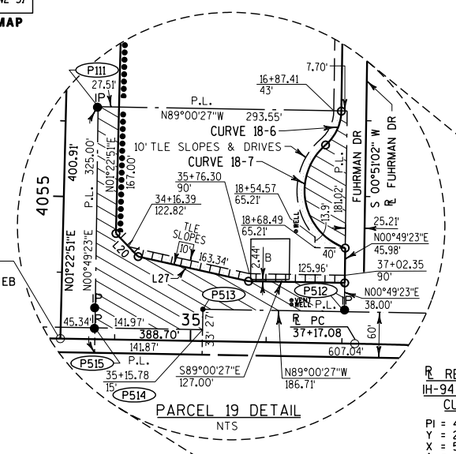
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

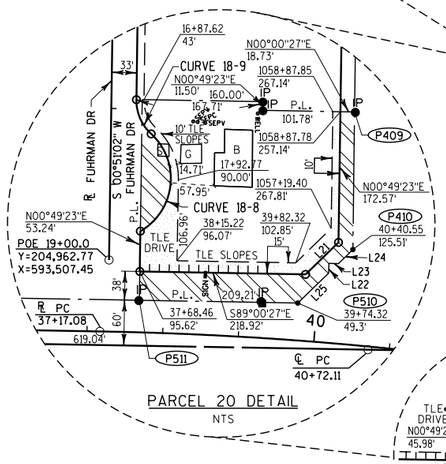
FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

I-94 ACCESS WAS PREVIOUSLY CONTROLLED PER PROJECT I 101-1 (3).

PLAT NOTE:

THE CONSULTANT WAS PROVIDED WITH THE EXISTING C/L IH-94 VIA DOT SE DISTRICT 05/2010





Y = 204,884.29
X = 591,516.97
CAST IRON MON. WITH BRASS CAP

CURVE 18-2	CURVE 18-3	CURVE 18-4	CURVE 18-5
L = 595.75'	L = 214.25'	L = 472.10'	L = 122.28'
R = 700.37'	R = 1005.00'	R = 555.00'	R = 172.00'
LCH = 577.95'	LCH = 213.84'	LCH = 457.99'	LCH = 119.72'
LCB N25°44'57"E	LCB N44°00'38"E	LCB N25°44'57"E	LCB S19°30'57"E
CURVE 18-6	CURVE 18-7	CURVE 18-8	CURVE 18-9
L = 50.66'	L = 167.56'	L = 150.41'	L = 50.66'
R = 60.00'	R = 80.00'	R = 80.00'	R = 60.00'
LCH = 49.16'	LCH = 138.57'	LCH = 129.21'	LCH = 49.16'
LCB S25°02'13"W	LCB S10°46'41"E	LCB N06°20'21"E	LCB N23°20'08"W
CURVE 18-10	CURVE 18-11		
L = 169.20'	L = 302.65'		
R = 238.00'	R = 1135.00'		
LCH = 165.66'	LCH = 301.75'		
LCB N19°30'57"W	LCB N42°28'43"E		

℄ RELOCATED IH-94 WEST FRD
CURVE 82

PI = 4060+32.39
Y = 205,594.58
X = 593,122.87
△ = 48°44'14"
D = 09°10'02"
R = 625.00'
T = 283.10'
L = 531.64'
EXT = 61.13'
LCH = 515.76'
LCB = N25°44'57"E
PC = 4057+49.29
PT = 4062+80.93

℄ RELOCATED IH-94 WEST FRD
CURVE 83

PI = 4070+75.49
Y = 206,285.58
X = 593,949.82
△ = 49°01'33"
D = 05°22'48"
R = 1065.00'
T = 485.64'
L = 911.28'
EXT = 105.50'
LCH = 883.73'
LCB = N25°36'18"E
PC = 4065+89.85
PT = 4075+01.13

℄ FUHRMAN DR
CURVE 92

PI = 11+82.02
Y = 205,686.73
X = 593,517.01
△ = 40°43'58"
D = 27°56'57"
R = 205.00'
T = 76.10'
L = 145.74'
EXT = 13.67'
LCH = 142.69'
LCB = S19°30'57"E
PC = 11+05.92
PT = 12+51.66

℄ CTH "K" EB
CURVE 23

PI = 42+47.35
Y = 204,858.86
X = 594,024.35
△ = 13°12'10"
D = 01°15'02"
R = 4582.00'
T = 530.27'
L = 1055.85'
EXT = 30.58'
LCH = 1053.51'
LCB = S82°24'22"E
PC = 37+17.08
PT = 47+72.92

SEE TPP PLAT 1030-11-20 AMENDMENT NO. 4.04

SEE TPP PLAT 1030-11-20, SHEET 4.06

1/16 LINE N 89°07'14" W 825.00'

10+00.00 ℄ FUHRMAN DR=
4063+59.37 ℄ WEST FRD

4068+61.45
73.98'
82.05'
P407
P408
IP
IP
1323.99'
239.64'
256.57'
PRW219
EXIST R/W
L= 234.98'
R= 114836.56'
LC= 234.98'
LCB= N00°46'20"E
6.00'
1069+00.41
1328.12'
97.33'
2656.24'(TOTAL)
N89°07'14"W
35.04'
44.16'
CURVE 18-3
TLE SLOPES
PRW207
PC 4065+89.85
4064+19.97
60'&75'
TLE DRIVE
4062+99.37
60'&75'
PT 4062+80.93
1 AP
60'
4068+
03.50
70'
4068+27.66
105.2'
CURVE 18-11
PRW233
1065+71.53
255.86'
1065+71.53
265.86'
1064+71.76
265.8'
1064+71.75
255.8'
PC 1066+65.22
4065
341.86'
N50°07'04"E
169.38'
70'
PRW206
PRW232
N11°16'34"E
57.27'
PRW231
PI 11+82.02
CURVE 92
PRW220
10+97.70
43'
S39°52'56"E
N 88°26'36" E
57.92'
PRW218
10+98.01
43'
10+05.92
10'
CURVE 18-10
PRW230
CURVE 18-5
PRW221
PT 12+51.66
70'
NO ACCESS PER PROJECT I 101-1 (3)
1157.60' TOTAL
985.04'
360'
960.69'
18
CURVE 18-2
CURVE 18-4
CURVE 82
℄ RELOCATED IH-94 WEST FRD
436.25'
436.34'
436.25'
15
648.34'
℄ FUHRMAN DR
N00°51'02"E
N00°49'23"E
N 00°42'49" E
NW OFF RAMP
EXIST WEST FRD
1065
IH-94 SB
IH-94 NB
CURVE 14
PI ℄ IH-94
1064+92.20
CURVE 14
PC ℄ IH-94
1059+94.58
SECTION LINE TOWNSHIP LINE
NO ACCESS PER PROJECT I 101-1 (3)
1328.12'
SEE TPP PLAT 1030-11-20 AMENDMENT NO. 4.09
SEGMENT ℄ I-94
CURVE 14
PI = 1064+92.20
Y = 205,759.81
X = 594,075.07
△ = 00°29'51"
D = 00°03'00"
R = 114,597.56'
T = 497.62'
L = 905.83'
EXT = 1.08'
LCH = 905.83'
LCB = N00°49'15"E
PC = 1059+94.58
PT = 1069+89.81
Y=207,494.35
X=594,205.28
CAST IRON MONUMENT WITH BRASS CAP
T04N R21E T04N R22E 24 19 25 30
Y=204,838.38
X=594,167.13
CONCRETE MONUMENT WITH ALUMINUM CAP
T04N R21E T04N R22E 25 30
GN
SCALE, FEET
0 100 200
TOWN OF RAYMOND
VILLAGE OF CALEDONIA
SEGMENT CURVE 23
L = 406.28'
R = 4582.00'
LCH = 406.14'
LCB N86°28'03"W
166.03'
PI 42+47.35
CURVE 23
6.00'
35.61'
1055+72.48
N89°00'27"W
101.61'
R/L= SEC. LINE
41+23.35
CURVE 23
2650.55' (TOTAL)
794.57'
℄ PC
37+17.08
388.70'
607.04'
P.L.
209.21'
P.L.
66.0'
45.34'
141.97'
141.87'
P.L.
263.24'
263.08'
N 89°00'27" W
186.71'
2059+05.60
EXIST ℄ CTH "K"= SECTION LINE
947.27'
S89°00'27"E
30+65.15
128.00'
95'
1325.27'
1/4 SECTION LINE
N 00°52'42" E
EQUATION
2059+23.60 BK=
4053+12.38 AH
℄ WEST FRD=
33+28.38 ℄ CTH "K" EB
Y=204,874.78
X=593,105.52
LIMITS OF LIFE ESTATE V. 1885 P. 056 DOC. NO. 1240780
30+64.80
170'
32+09.53
170'
TLE SLOPES & DRIVE
RUINS SILO
180.01'
1 AP
34'
50'
45.8'
144.20'
PRW204
L26
PRW203
PRW215
PRW213
186.71'
PRW211
PRW210
PRW214
257.83'
PRW225
PRW212
PRW224
PRW216
N77°24'57"W
149.30'
PRW226
PRW227
PRW222
PRW223
N89°00'27"W 293.55'
N89°00'27"W 160.00'
IP
P.L.
1058+87.85
267.14'
N00°49'23"E
172.57'
TLE SLOPES & DRIVE
TLE DRIVE
20
18
19
15
4055
℄ FUHRMAN DR
S 00°51'02" W
P.L.
234.34'
264.24'
N01°22'51"E
167.00'
PRW217
PC 4057+49.29
N01°22'51"E
129.43'
4057+16.01
105'
PRW205
90'
70'
TLE SLOPES
NO ACCESS PER PROJECT I 101-1 (3)
NO ACCESS PER PROJECT I 101-1 (3)
IH-94
IH-94
1060
N00°35'40"E
N00°49'23"E
SEE TPP PLAT 1030-11-20 AMENDMENT NO. 4.04
SEE TPP PLAT 1030-11-20 AMENDMENT NO. 2, SHEET 4.01
FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOC. 2219602 IN THE RACINE COUNTY REGISTER OF DEEDS
WE ENERGIES PAR. 18, NO RECORD OF EASEMENT
SE-NE
100
18
4060
CURVE 18-2
CURVE 18-4
CURVE 82
PI 4060+32.39
CURVE 82
PRW234
PRW205
PRW217
PRW227
PRW222
PRW223
PRW226
PRW216
PRW224
PRW212
PRW214
PRW225
PRW215
PRW213
PRW211
PRW210
PRW204
PRW203
L20
L27
L26
TLE SLOPES
TLE DRIVE
B
G
10'
15'
70'
90'
33'
18'
66.0'
60'
95'
128.00'
30
℄ CTH "K" EB
EXIST ℄ CTH "K"= SECTION LINE
1/4 SECTION LINE
N 89°00'27" W
186.71'
2059+05.60
R/L= SEC. LINE
41+23.35
CURVE 23
2650.55' (TOTAL)
794.57'
℄ PC
37+17.08
388.70'
607.04'
P.L.
209.21'
P.L.
66.0'
45.34'
141.97'
141.87'
P.L.
263.24'
263.08'
947.27'
S89°00'27"E
30+65.15
1325.27'
N 89°00'27" W
186.71'
2059+05.60
EXIST ℄ CTH "K"= SECTION LINE
N 00°52'42" E
EQUATION
2059+23.60 BK=
4053+12.38 AH
℄ WEST FRD=
33+28.38 ℄ CTH "K" EB
Y=204,874.78
X=593,105.52
LIMITS OF LIFE ESTATE V. 1885 P. 056 DOC. NO. 1240780
30+64.80
170'
32+09.53
170'
TLE SLOPES & DRIVE
RUINS SILO
180.01'
1 AP
34'
50'
45.8'
144.20'
PRW204
L26
PRW203
PRW215
PRW213
186.71'
PRW211
PRW210
PRW214
257.83'
PRW225
PRW212
PRW224
PRW216
N77°24'57"W
149.30'
PRW226
PRW227
PRW222
PRW223
N89°00'27"W 293.55'
N89°00'27"W 160.00'
IP
P.L.
1058+87.85
267.14'
N00°49'23"E
172.57'
TLE SLOPES & DRIVE
TLE DRIVE
20
18
19
15
4055
℄ FUHRMAN DR
S 00°51'02" W
P.L.
234.34'
264.24'
N01°22'51"E
167.00'
PRW217
PC 4057+49.29
N01°22'51"E
129.43'
4057+16.01
105'
PRW205
90'
70'
TLE SLOPES
NO ACCESS PER PROJECT I 101-1 (3)
NO ACCESS PER PROJECT I 101-1 (3)
IH-94
IH-94
1060
N00°35'40"E
N00°49'23"E
SEE TPP PLAT 1030-11-20 AMENDMENT NO. 4.04
SEE TPP PLAT 1030-11-20, SHEET 4.06

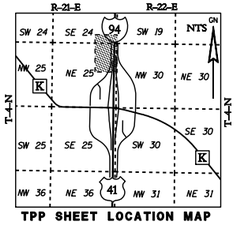
TRANSPORTATION PROJECT PLAT NO: 1030-11-20 - 4.06

THAT PART OF THE NORTHEAST 1/4 OF THE NORTHEAST 1/4 OF SECTION 25, AND THAT PART OF THE SOUTHEAST 1/4 OF THE SOUTHEAST 1/4 OF SECTION 24, TOWNSHIP 4 NORTH, RANGE 21 EAST, IN THE TOWN OF RAYMOND, RACINE COUNTY, WISCONSIN.

RELOCATION ORDER I-94 @ CTH "K" RACINE COUNTY

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 PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 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 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 SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



TPP SHEET LOCATION MAP

BASIS OF RIGHT-OF-WAY

HWY	BASIS OF EXIST R/W	YEAR	WIDTH
I-94/USH 41	DJ 2381	1935	VARIES
I-94/USH 41	DJ 2277	1934	VARIES
I-94/USH 41	I 101-1 (3)	1956	VARIES
CTH "K"	I 101-1 (3)	1956	VARIES
CTH "K"	BY STATUTE 82.81	----	66'
CTH "K"	2804-2-71	1972	VARIES

GENERAL NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, (ENGLISH), NAD 1983 (1997) ADJUSTMENT. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

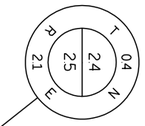
FOR THE LATEST ACCESS / DRIVEWAY INFORMATION, CONTACT THE PLANNINGUNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

I-94 ACCESS WAS PREVIOUSLY CONTROLLED PER PROJECT I 101-1 (3).

PLAT NOTE:

THE CONSULTANT WAS PROVIDED WITH THE EXISTING C/L IH-94 VIA DOT SE DISTRICT 05/2010

SCALE, FEET
0 100 200



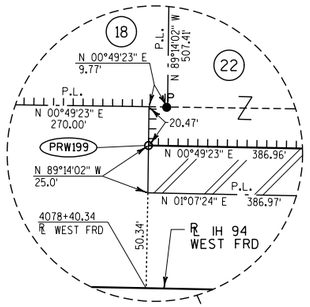
Y=207,529.73
X=591,560.10
CAST IRON MON.
WITH BRASS CAP

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	TLE TEMP. ACRES	PLE PERM. ACRES
18	OMEGA INVESTMENTS INC.	FEE,AR,TLE	0.260	0.000	0.260	0.124	0.000
21	ELIMINATED	---	---	---	---	---	---
22	MARK W. NELSON	FEE,AR,TLE	0.231	0.000	0.231	0.068	0.000
43	ROGER A. & PAMELA J. HAYS	FEE,AR,TLE	0.044	0.000	0.044	0.045	0.000
--	---	---	---	---	---	---	---

PARCEL 18 & 22 DETAIL
NTS



℄ IH-94
CURVE 14
PI = 1064+92.20
Y = 205,759.81
X = 594,075.07
△ = 00°29'51"
D = 00°03'00"
R = 114,597.56'
T = 497.62'
L = 995.23'
EXT = 1.08'
LCH = 995.23'
LCB = N00°50'36"E
PC = 1059+94.58
PT = 1069+89.81

℄ RELOCATED
IH-94 WEST FRD
CURVE 83
PI = 4070+75.49
Y = 206,285.58
X = 593,949.83
△ = 49°01'33"
D = 05°22'48"
R = 1065.00'
T = 485.64'
L = 911.28'
EXT = 105.50'
LCH = 883.73'
LCB = N25°36'18"E
PC = 4065+89.85
PT = 4075+01.13

CURVE 18-12
L = 241.04'
R = 1005.00
LCH = 240.47'
LCB N31°01'56"E

SEGMENT
CURVE 14
L = 89.40'
R = 114,597.56'
LCH = 89.40'
LCB N01°04'11"E

SEE TPP PLAT 1030-11-20, SHEET 4.05

SEE TPP PLAT 1030-11-20
AMENDMENT NO. 1, SHEET 4.09

END PROJECT 1030-11-20
STA. 1093+00 ℄ IH-94
Y = 208,567.11
X = 594,128.59

Y=210,144.23
X=594,246.71
CAST IRON MON.
WITH BRASS CAP

Y=204,838.38
X=594,167.13
CONC MON. WITH
ALUMINUM CAP

Y=207,494.35
X=594,205.28
CAST IRON MON.
WITH BRASS CAP

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOC. 2219602 IN THE RACINE COUNTY REGISTER OF DEEDS

I, TIMOTHY JOHNSON, 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 DEPARTMENT OF TRANSPORTATION-SOUTHEAST REGION, HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1030-11-20 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

STATE OF WISCONSIN — TIMOTHY JOHNSON — NO. S-2156 — EAU CLAIRE WI — REGISTERED LAND SURVEYOR

BLOOM COMPANIES, LLC
Infrastructure Innovation and Ingenuity

DATE 7/5/10
TIMOTHY JOHNSON, RLS NUMBER S-2156

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.
DATE 7-7-2010
C E Andersen

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-20 4.06

Vol 1 Pg 114

DOCUMENT # 2255373
RACINE COUNTY REGISTER OF DEEDS
July 13, 2010 4:27 PM
James A. Ladwig
JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

FILE NAME : F:\BM1-1644D CTH K\Survey\ck_040406_rp.dgn PLOT DATE : 05-JUL-2010 19:44 PLOT BY : kdew PLOT NAME : PLOT SCALE : 100:1

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

CONST. 1030-11-70 CTH K R/W 1030-11-20 4.06

TRANSPORTATION PROJECT PLAT NO: 1030-11-20 - 4.07

THAT PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4 OF SECTION 30, TOWNSHIP 4 NORTH, RANGE 22 EAST, VILLAGE OF CALEDONIA, RACINE COUNTY, WISCONSIN.

AMENDMENT NO.1:

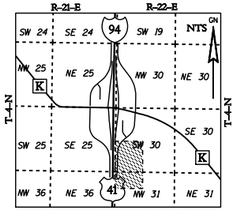
AMENDS PARCEL NO.24 AND 25 AND EXISTING C/L IH-94 OF TRANSPORTATION PROJECT PLAT NO. 1030-11-20 - 4.07 RECORDED AS DOCUMENT NO. 2245539

RELOCATION ORDER I-94 @ CTH "K" RACINE COUNTY

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 PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 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 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 SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



TPP SHEET LOCATION MAP

BASIS OF RIGHT-OF-WAY

HWY	BASIS OF EXIST R/W	YEAR	WIDTH
I-94/USH 41	DJ 2381	1935	VARIES
I-94/USH 41	DJ 2277	1934	VARIES
I-94/USH 41	I 101-1 (3)	1956	VARIES

GENERAL NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, (ENGLISH), NAD 1983 (1997) ADJUSTMENT, ALL DISTANCES ARE GROUND LENGTH.

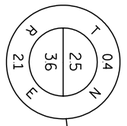
RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYPICAL 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

FOR THE LATEST ACCESS / DIRECTIONAL INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN WAUKESHA.

I-94 ACCESS WAS PREVIOUSLY CONTROLLED PER PROJECT I 101-1 (3).

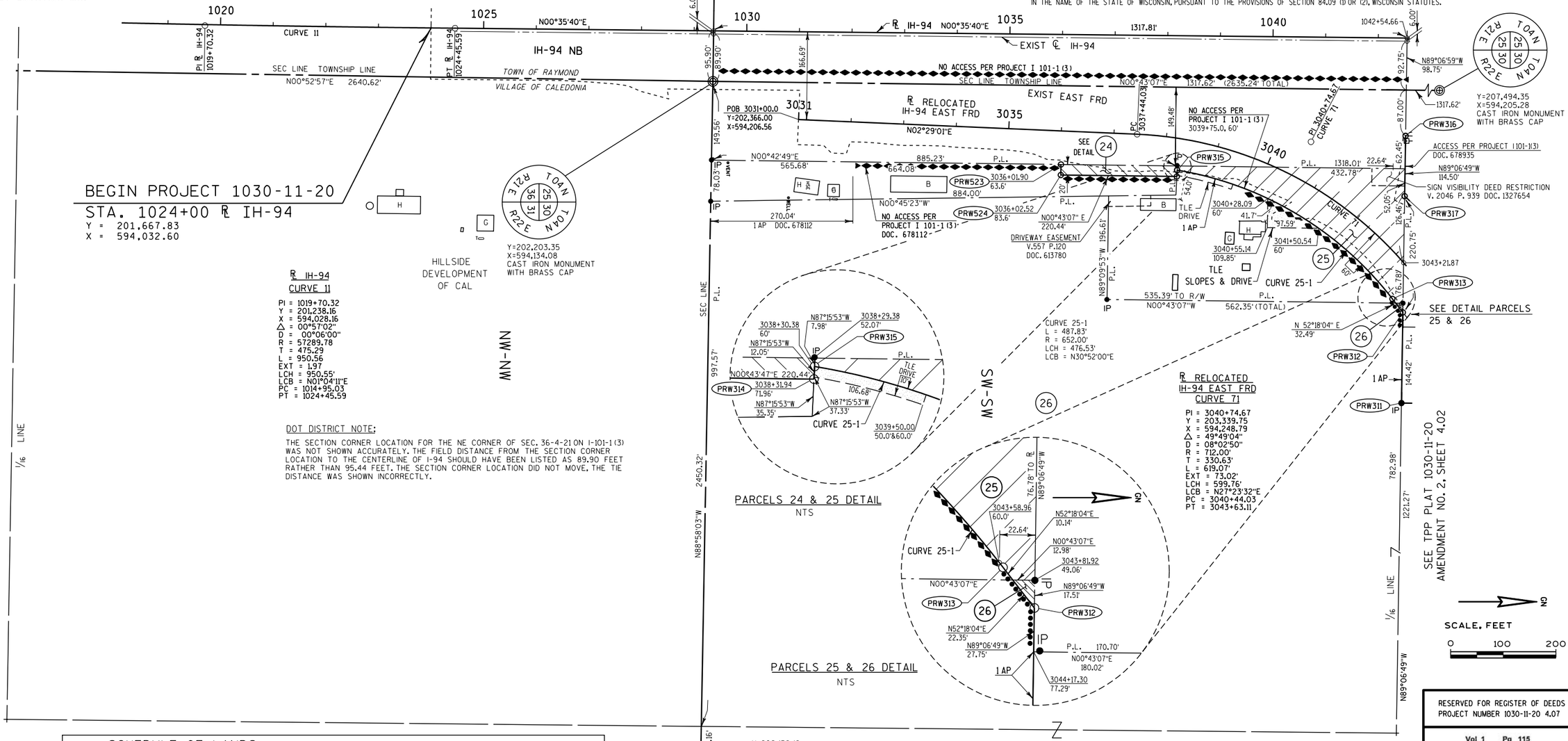
PLAT NOTE:

THE CONSULTANT WAS PROVIDED WITH THE EXISTING C/L IH-94 VIA DOT SE DISTRICT 05/2010



Y=202,239.33
X=591,473.71
CAST IRON MONUMENT WITH BRASS CAP

SEE TPP PLAT 1030-11-20, SHEET 4.03



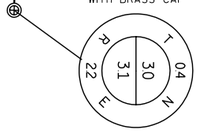
SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	TLE TEMP. ACRES	PLE PERM. ACRES
24	KENNETH L. NICHOLSON	FEE	0.101	0.000	0.101	0.000	0.000
25	TODD M. FORNES	FEE,AR,TLE	0.997	0.000	0.997	0.091	0.000
26	BADGER LAND COMPANY	FEE,AR	0.003	0.000	0.000	0.000	0.000
--	---	---	---	---	---	---	---

DOT DISTRICT NOTE:

THE SECTION CORNER LOCATION FOR THE NE CORNER OF SEC. 36-4-21 ON I-101-1 (3) WAS NOT SHOWN ACCURATELY. THE FIELD DISTANCE FROM THE SECTION CORNER LOCATION TO THE CENTERLINE OF I-94 SHOULD HAVE BEEN LISTED AS 89.90 FEET RATHER THAN 95.44 FEET. THE SECTION CORNER LOCATION DID NOT MOVE, THE TIE DISTANCE WAS SHOWN INCORRECTLY.



Y=202,159.19
X=596,584.00
CAST IRON MONUMENT WITH BRASS CAP

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOC. 2219602 IN THE RACINE COUNTY REGISTER OF DEEDS

I, TIMOTHY JOHNSON, 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 DEPARTMENT OF TRANSPORTATION-SOUTHEAST REGION, HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1030-11-20 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.



BLOOM COMPANIES, LLC
Infrastructure Innovation and Ingenuity

DATE 7/5/10

TIMOTHY JOHNSON, RLS NUMBER S-2156

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.

DATE 7-7-2010

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-20 4.07

Vol 1 Pg 115

DOCUMENT # 2255374
RACINE COUNTY REGISTER OF DEEDS
July 13, 2010 4:29 PM

JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

SEE TPP PLAT 1030-11-20 AMENDMENT NO. 2, SHEET 4.02

FILE NAME : F:\BM1-1644D CTH K\Survey\ck_040407_rp.dgn PLOT DATE : 05-JUL-2010 19:45 PLOT BY : kdew PLOT NAME : PLOT SCALE : 100:1

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

CONST. 1030-11-70 CTH K R/W 1030-11-20 4.07

TRANSPORTATION PROJECT PLAT NO: 1030-11-20 - 4.09

THAT PART OF THE SOUTHWEST 1/4 OF THE NORTHWEST 1/4 AND THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 30, TOWNSHIP 4 NORTH, RANGE 22 EAST, VILLAGE OF CALEDONIA, RACINE COUNTY, WISCONSIN.

AMENDMENT NO.1:

AMENDS ACCESS RIGHTS OF PARCEL 37 AND AMENDS EXISTING C/L IH-94 OF TRANSPORTATION PROJECT PLAT NO. 1030-11-20 - 4.09

AMENDMENT NO. 1 RECORDED AS DOCUMENT NO. 2221139

RELOCATION ORDER I-94 @ CTH "K" RACINE COUNTY

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 PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 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 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 SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

T 04 N R 21 E 25 30 — Y=204,838.38 X=594,167.13 CONC. MON. WITH ALUMINUM CAP

T 04 N R 21 E 25 — Y = 204,884.29 X = 591,516.97 CAST IRON MON. WITH BRASS CAP

BASIS OF RIGHT-OF-WAY

HWY	BASIS OF EXIST R/W	YEAR	WIDTH
I-94/USH 41	DJ 2381	1935	VARIES
I-94/USH 41	DJ 2277	1934	VARIES
I-94/USH 41	I 101-1 (3)	1956	VARIES
CTH "K"	I 101-1 (3)	1956	VARIES
CTH "K"	BY STATUTE 82.81	----	66'
CTH "K"	2804-2-71	1972	VARIES

GENERAL NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, RACINE COUNTY, (ENGLISH), NAD 1983 (1997) ADJUSTMENT. ALL DISTANCES ARE GROUND LENGTH.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (TYP 3/4" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT BY WISCONSIN DOT SOUTHEAST REGION SURVEY.

I-94 ACCESS WAS PREVIOUSLY CONTROLLED PER PROJECT I 101-1 (3).

PLAT NOTE:

THE CONSULTANT WAS PROVIDED WITH THE EXISTING C/L IH-94 VIA DOT SE DISTRICT 05/2010

SEE TPP PLAT 1030-11-20, SHEET 4.05

SEE TPP PLAT 1030-11-20, SHEET 4.06

SEE TPP PLAT 1030-11-20 AMENDMENT NO. 2, SHEET 4.02

N 89°00'27" W 2548.94' — 1055+72.48 — R IH-94 — N00°35'40"E — EXIST ℄ IH-94 — 1060 — CURVE 14 — 1065 — PC R IH-94 1059+94.58 — PI R IH-94 1064+92.20 CURVE 14 — 1069+00.41 — 1070 — PT R IH-94 1069+89.81 — R IH-94 — 1075 — IH-94 SB — N 01°05'31" E 1238.54' — 1080 — 1082+28.35 — N 89°14'02" W 2548.30' — Y=207,529.73 X=591,560.10 CAST IRON MON. WITH BRASS CAP

N 89°00'27" W 101.61' — TOWN OF RAYMOND — VILLAGE OF CALEDONIA — N00°49'23"E 2656.24'(TOTAL) — SEC LINE — TOWNSHIP LINE — NO ACCESS PER PROJECT I 101-1(3) — IH-94 NB — R NE ON RAMP — NO ACCESS PER PROJECT I 101-1(3) — N 89°14'02" W 97.12'

EXIST EAST FRD — R NE ON RAMP — EXIST EAST FRD — PI 5075+45.44 CURVE 74 — R RELOCATED IH-94 EAST FRD — POE 5082+28.39 Y=207,493.77 X=594,251.27

MS-MN — CTH K — 10' UTILITY EASEMENT — TLE SLOPES — TLE DRIVE — TLE SLOPES & DRIVES — STORM WATER POND 45 — 1 AP — 2 AP — 3 AP'S

CURVE 14
PI = 1064+92.20
Y = 205,759.81
X = 594,075.07
Δ = 00°29'51"
D = 00°03'00"
R = 114,597.56'
T = 497.62'
L = 995.23'
EXT = 1.08'
LCH = 995.23'
LCB = N00°50'36"E
PC = 1059+94.58
PT = 1069+89.81

CURVE 36-1
L = 58.28'
R = 1260.00'
LCH = 58.28'
LCB = N00°30'08"W

CURVE 37-6
L = 373.82'
R = 1290.00'
LCH = 372.51'
LCB N28°28'54"W

CURVE 37-3
L = 893.94'
R = 1420.00'
LCH = 879.25'
LCB = N17°12'43"W

CURVE 37-4
L = 38.08'
R = 1420.00'
LCH = 38.08'
LCB N36°00'54"W

CURVE 37-5 (OVERALL)
L = 932.02'
R = 1420.00'
LCH = 915.38'
LCB N17°58'48"W

R RELOCATED IH-94 EAST FRD CURVE 73
PI = 5063+18.50
Y = 205,779.30
X = 594,995.72
Δ = 37°36'22"
D = 04°14'39"
R = 1350.00'
T = 459.66'
L = 886.07'
EXT = 76.11'
LCH = 870.26'
LCB = N17°58'48"W
PC = 5058+58.84
PT = 5067+44.91

R RELOCATED IH-94 EAST FRD CURVE 74
PI = 5075+45.44
Y = 206,788.59
X = 594,241.14
Δ = 37°36'22"
D = 06°21'58"
R = 900.00'
T = 306.44'
L = 590.72'
EXT = 50.74'
LCH = 580.17'
LCB = N17°58'48"W
PC = 5072+39.00
PT = 5078+29.72

CURVE 42-1
L = 125.67'
R = 990.00'
LCH = 125.58'
LCB N33°01'59"W

CURVE 42-2
L = 545.10'
R = 830.50'
LCH = 535.37'
LCB N17°58'48"W

PARCELS 37 & 42 DETAIL
NTS

Y=207463.98 X=596619.24 CAST IRON MONUMENT WITH BRASS CAP

Y=207,494.35 X=594,205.28 CAST IRON MONUMENT WITH BRASS CAP

Y=204,806.96 X=596,601.71 CAST IRON MONUMENT WITH BRASS CAP

TPP SHEET LOCATION MAP

SCALE, FEET 0 100 200

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE DEPARTMENT

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W REQUIRED (ACRES) NEW	EXISTING	TOTAL	TLE TEMP. ACRES	PLE PERM. ACRES
36	PILOT TRAVEL CENTERS LLC	FEE,AR,TLE	0.51	0.00	0.51	0.89	0.00
37	HAROLD R. & CAROL J. DEBACK	FEE,AR,TLE	6.24	0.00	6.24	0.30	0.00
42	BFD ENTERPRISES A PARTNERSHIP	FEE,AR,TLE	2.01	0.00	2.01	0.19	0.00
--	---	---	---	---	---	---	---

FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2 OF DOC. 2219602 IN THE RACINE COUNTY REGISTER OF DEEDS.

I, TIMOTHY JOHNSON, 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 DEPARTMENT OF TRANSPORTATION-SOUTHEAST REGION, HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1030-11-20 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

STATE OF WISCONSIN — TIMOTHY JOHNSON — NO. S-2156 — EAST TROY WIS. — REGISTERED LAND SURVEYOR

BLOOM COMPANIES, LLC

DATE 7/5/10

TIMOTHY JOHNSON, RLS NUMBER S-2156

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION SOUTHEAST REGION.

DATE 7-7-2010

D E Andersen

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1030-11-20 4.09

Vol 1 Pg 116

DOCUMENT # 2255375
RACINE COUNTY REGISTER OF DEEDS
July 13, 2010 4:34 PM

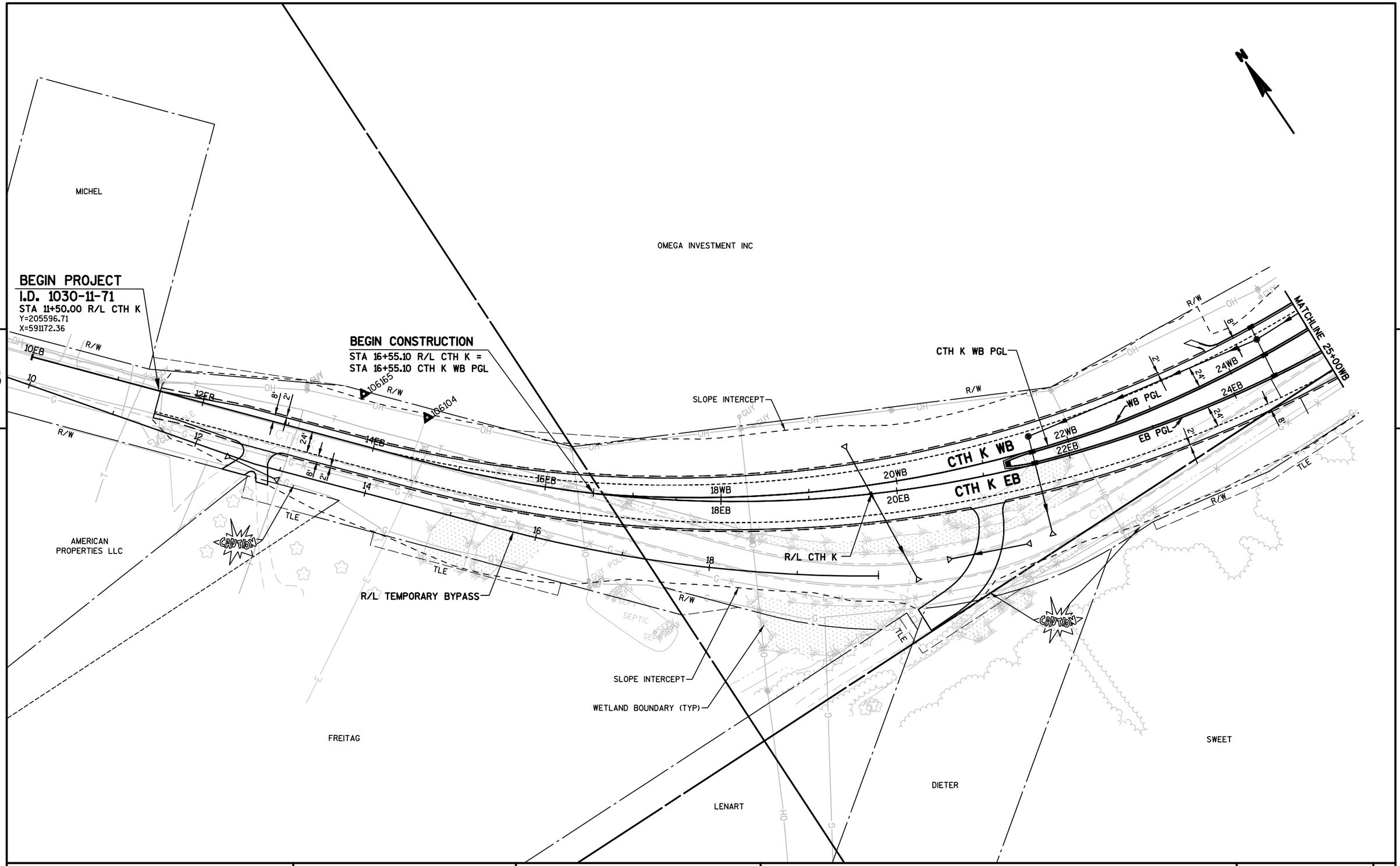
James A. Ladwig

JAMES A LADWIG
RACINE COUNTY
REGISTER OF DEEDS
Fee Amount: $25.00
Pages: 1

FILE NAME : F:\BM1-1644D CTH K\Survey\ck_040409_rp.dgn — PLOT DATE : 05-JUL-2010 19:45 — PLOT BY : kdew — PLOT NAME : — PLOT SCALE : 100:1

THIS IS A COPY, ORIGINAL DOCUMENT IS FILED AT THE RACINE COUNTY REGISTER OF DEEDS.

CONST. 1030-11-70 CTH K R/W 1030-11-20 4.09

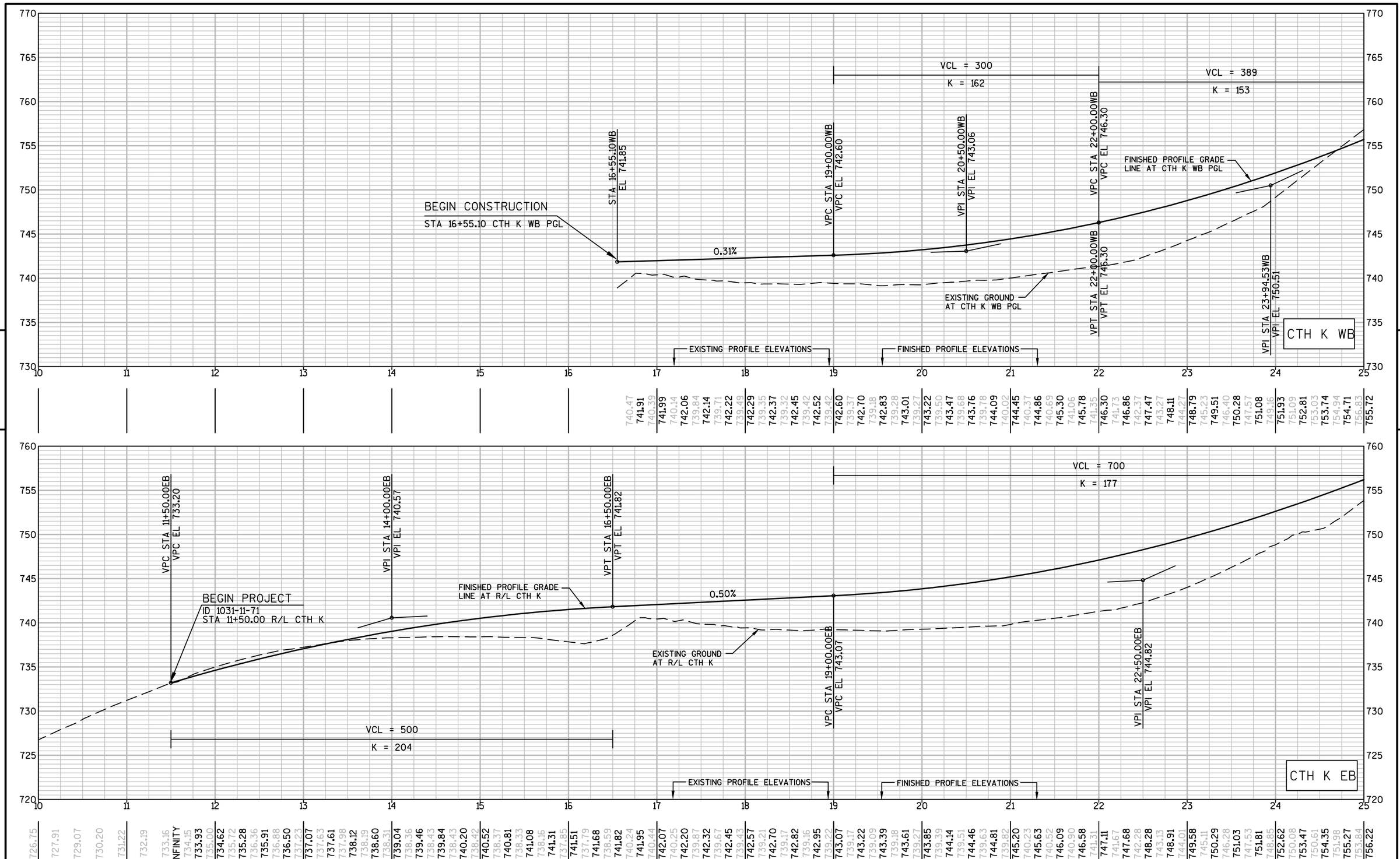


PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN AND PROFILE - CTH K	SHEET 263	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\050101_PP.DWG
LAYOUT NAME - 050101

PLOT DATE : 12/13/2016 11:15 AM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 1030-11-71	HWY: IH 94/ CTH K	COUNTY: RACINE	PROFILES: CTH K	SHEET 264 E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\050101_PP.DWG
LAYOUT NAME - 050102
PLOT DATE : 11/29/2016 4:01 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

5

5

NWF SB PGL

END CONSTRUCTION
STA 4056+91.75 R/L W. FRONTAGE RD.

105998

OMEGA INVESTMENTS INC

OMEGA INVESTMENTS INC

FUHRMAN DRIVE

OMEGA INVESTMENTS INC

SEPTIC TANKS AND BED

R/L FUHRMAN DR

R/L WEST FRONTAGE RD

ZIMMERMANN

MARITA

WETLAND BOUNDARY (TYP)

TRANSITION WB PGL

SLOPE INTERCEPT

EQUATION

STA 25+59.07 AHD=
PT STA 25+48.12 BK

MATCHLINE 25+00WB

26WB

28WB

CTH K WB PGL

30WB

32WB

34WB

CTH K WB

36WB

WB PGL

38WB

MATCHLINE 40+00WB

26EB

30EB

28EB

R/L CTH K

32EB

34EB

36EB

EB PGL

CTH K EB

38EB

SLOPE INTERCEPT

S-51-216

TRANSITION EB PGL

WILKS

BAUMANN

LUND

JORGENSEN

KING

HRIBAR

HWY K LLC

SWEET

WEST FRONTAGE ROAD

SCOTT L. MILES TRUST

SCOTT L. MILES TRUST

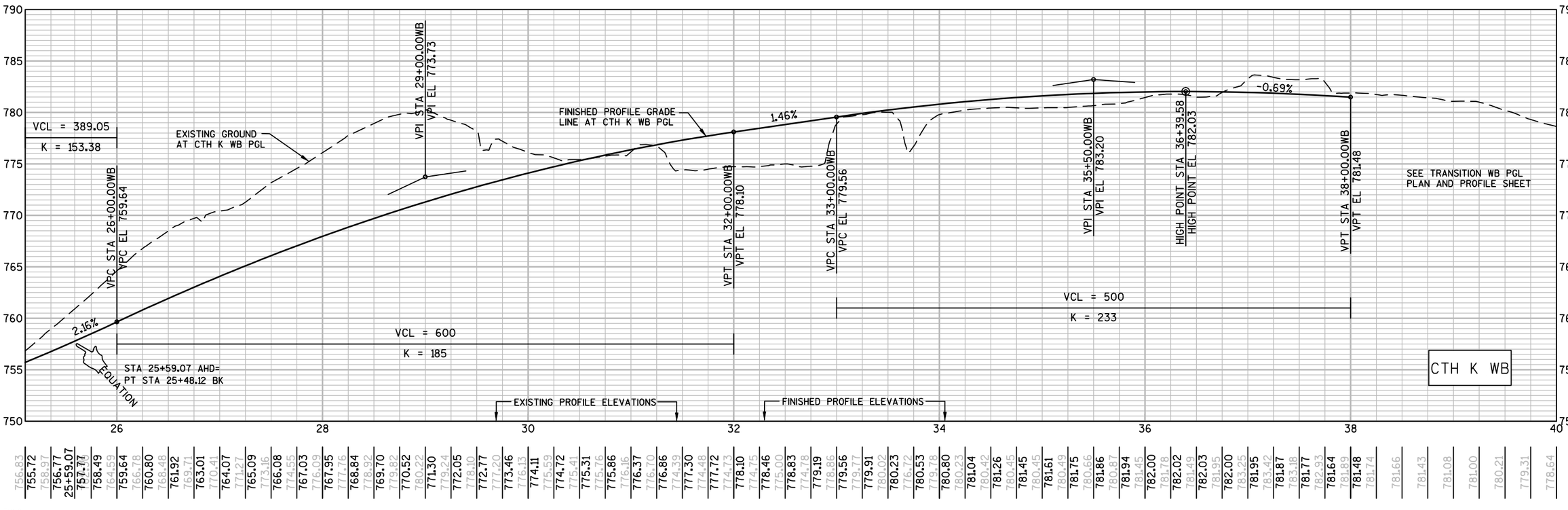
WELCH

SWF SB PGL

R/L WEST FRONTAGE RD

BEGIN CONSTRUCTION
STA 2055+00 R/L W. FRONTAGE RD.

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN AND PROFILE - CTH K	SHEET 265	E



PROJECT NO:1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PROFILES: CTH K	SHEET 266 E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\050103_PP.DWG
LAYOUT NAME - 050104

PLOT DATE : 11/29/2016 4:22 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

5

RAMP NW

RAMP NE

PILOT TRAVEL CENTER LLC

CANOPY

FILLER CAPS

EQUATION

STA 47+72.92 AHD=
PT STA 47+81.22 BK

CAUTION

SLOPE INTERCEPT

S-51-217

R/W

TLE

VENT

105631

105490

CTH K WB

CTH K WB PGL

CTH K EB

42WB

44WB

46WB

48WB

50WB

42EB

44EB

46EB

48EB

50EB

MATCHLINE 40+00WB

BEGIN CONSTRUCTION
STA 44+54.40 R/L CTH K

R/L CTH K

HWY K LLC

IH 94 SB

IH 94 NB

IH 94/USH 41

RAMP SW

RAMP SE

WELCH

HRIBAR

MICHELS GARAGE

ANT

A/C

PLE

DEBACK

R/L EAST FRONTAGE ROAD

STA 52+27.40 R/L CTK K BK =
Y = 204,617.37
X = 594,979.03

STA 52+18.84 R/L CTH K AH
Y = 204,654.37
X = 594,979.57

5054SB

5054NB

5052SB

5052NB

3056SB

3056NB

3054SB

3054NB

3052SB

3052NB

WB PGL

52WB

52EB

54WB

54EB

MATCHLINE 54+50WB

CTH K EB PGL

EAST FRONTAGE ROAD

BEGIN CONSTRUCTION
STA 3050+60.39
R/L E. FRONTAGE RD.

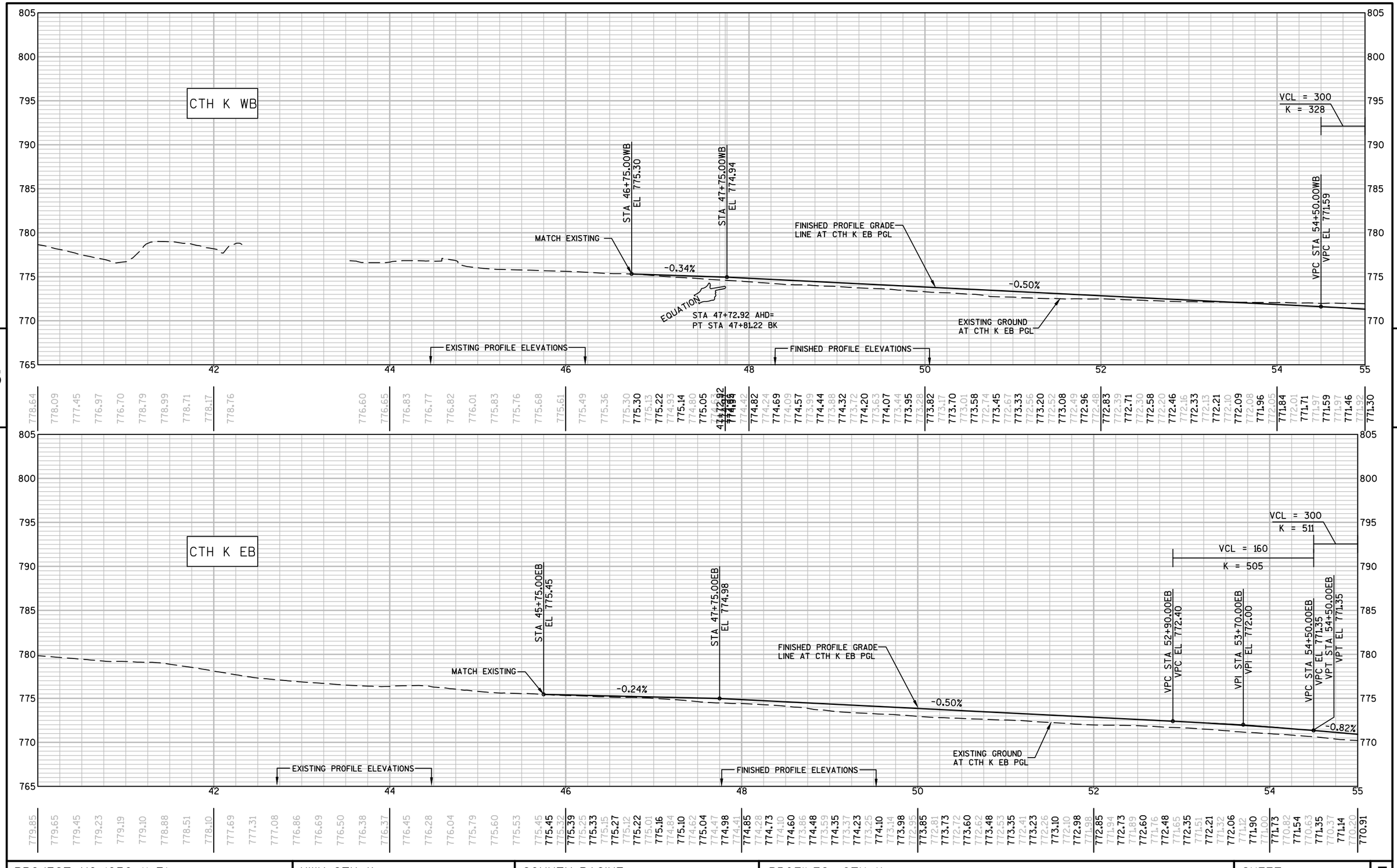
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN AND PROFILE - CTH K	SHEET 267 E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\050105_PP.DWG
LAYOUT NAME - 050105

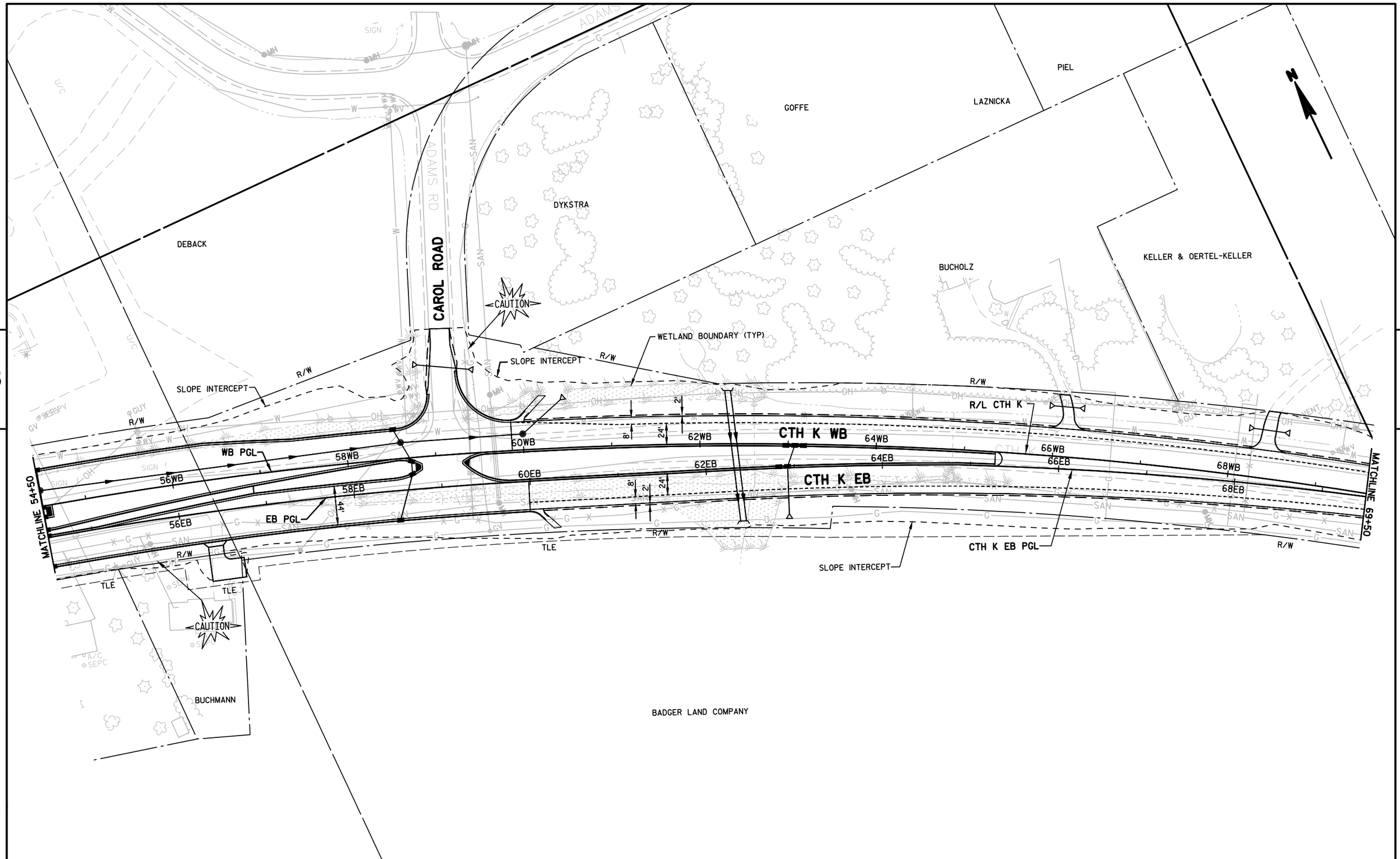
PLOT DATE : 12/13/2016 11:30 AM PLOT BY : SPAETH, MICHELE L PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 1030-11-71	HWY: CTH K	COUNTY: RACINE	PROFILES: CTH K	SHEET 268	E

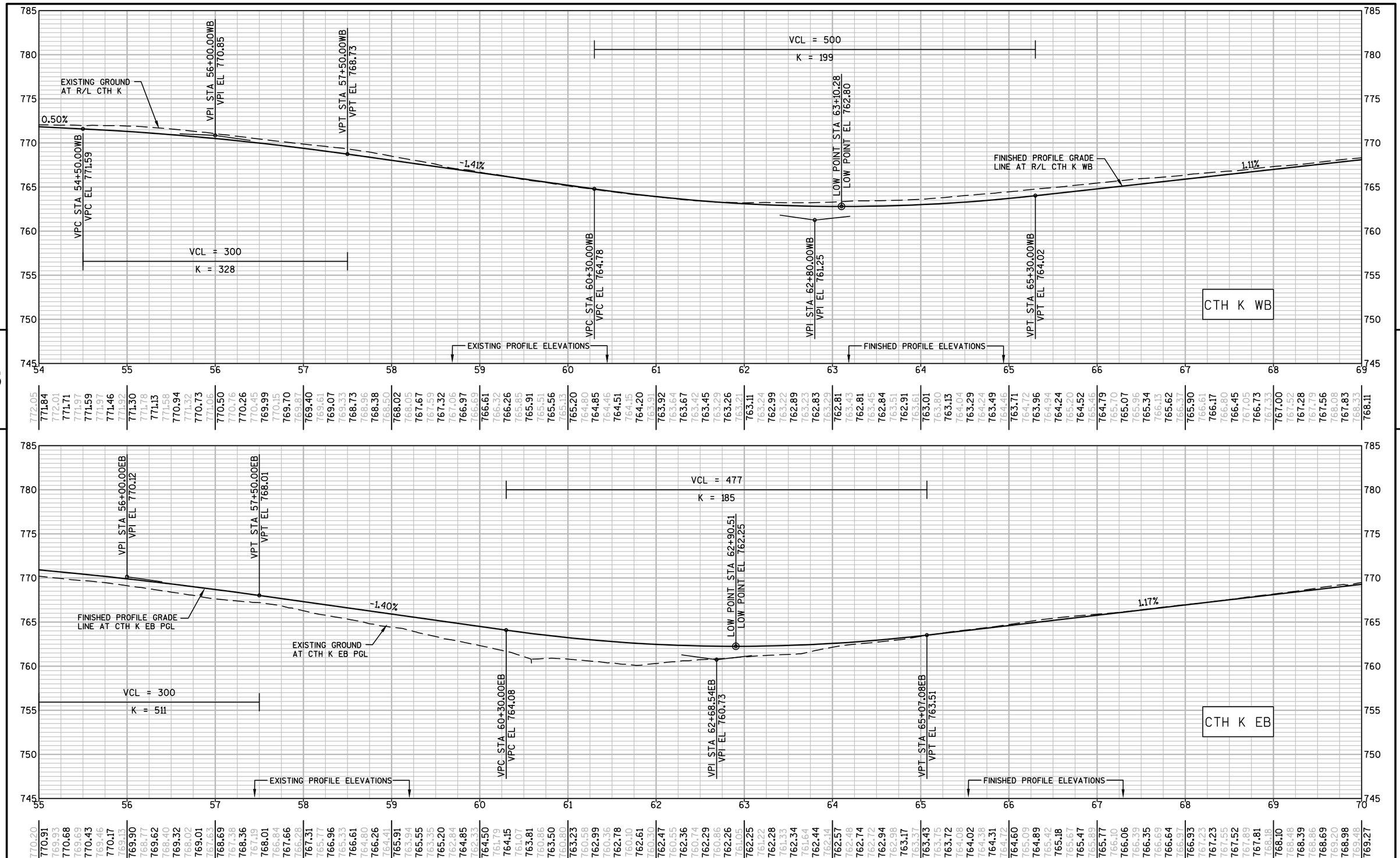


PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN AND PROFILE - CTH K	SHEET 269	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\050107_PP.DWG
LAYOUT NAME - 050107

PLOT DATE : 12/13/2016 11:44 AM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 1030-11-71	HWY: IH 94/ CTH K	COUNTY: RACINE	PROFILE: CTH K	SHEET 270	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\050107_PP.DWG
LAYOUT NAME - 050108

PLOT DATE : 12/13/2016 11:45 AM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

5

5

PIEL

EQUATION

STA 69+98.75 R/L CTH K BK =
Y = 203,936.65
X = 596,595.89

STA 136+12.70 CTH K C/L EXIST AH
Y = 203,946.44
X = 596,595.95

END CONSTRUCTION
STA 70+71.43 CTH K EB PGL
STA 70+80.25 R/L CTH K WB

DOMBROWSKI

HOFFMAN

USTYMOWICZ

USTYMOWICZ

R/W

SLOPE INTERCEPT

CTH K C/L EXIST

R/L CTH K

MATCHLINE 69+50EB

70WB

70EB

24'

138

72WB

140

74WB

142

76WB

144

78WB

78EB

146

80WB

80EB

148

82WB

82EB

150

8'

2'

1030-08

CTH K

CTH K EB PGL

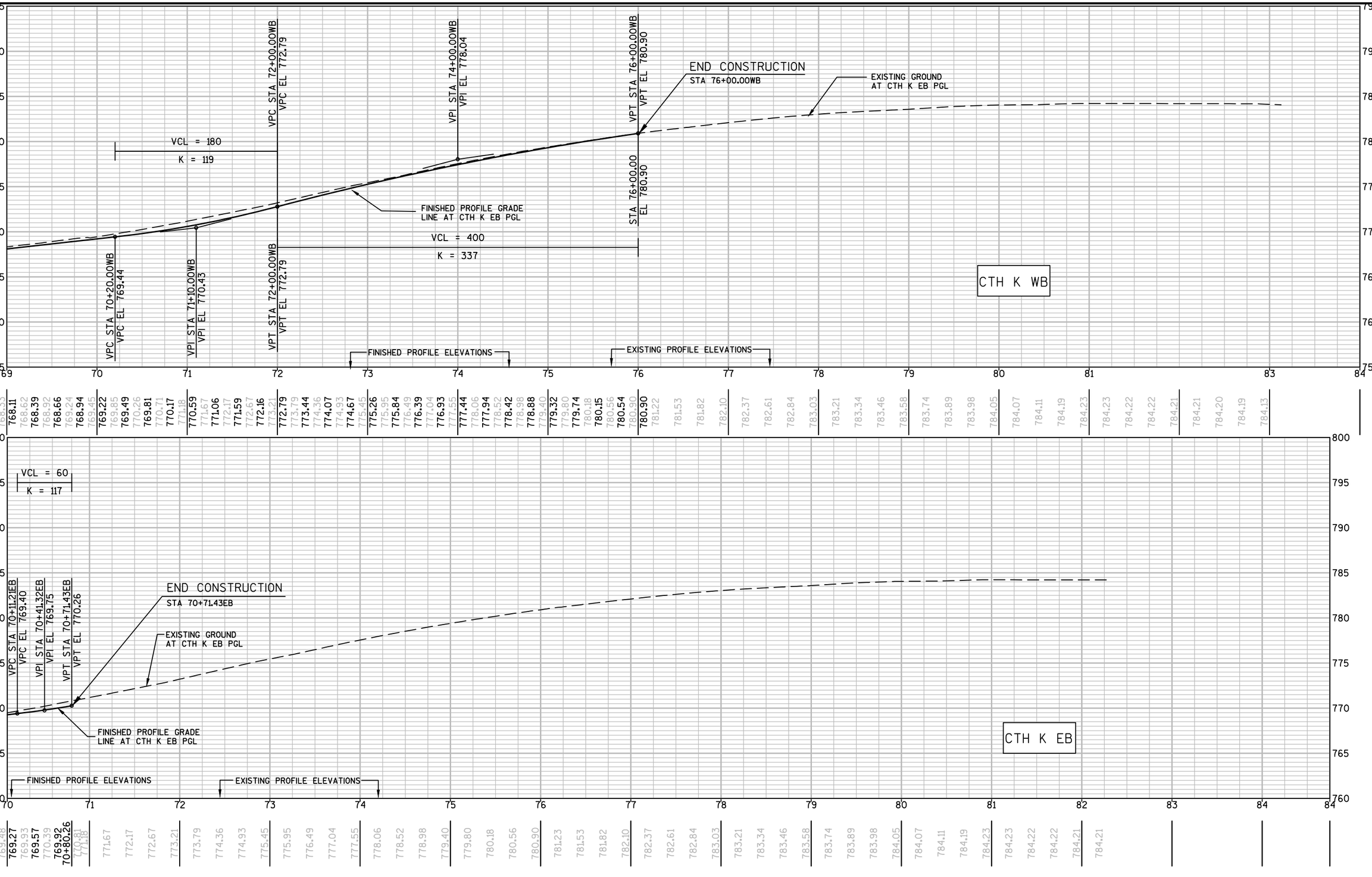
END PROJECT
I.D. 1030-11-71
STA 76+00.00
R/L CTH K WB

END CONSTRUCTION
STA 142+21.01 CTH K C/L EXIST
STA 76+00.00 R/L CTH K WB

CAUTION

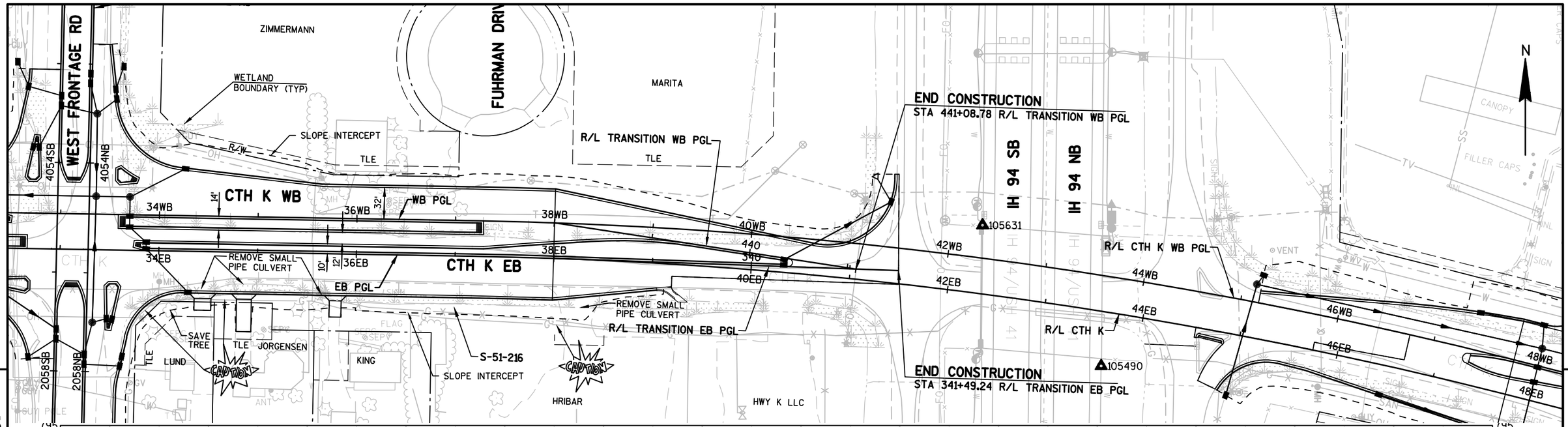
N

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN AND PROFILE - CTH K	SHEET 271	E



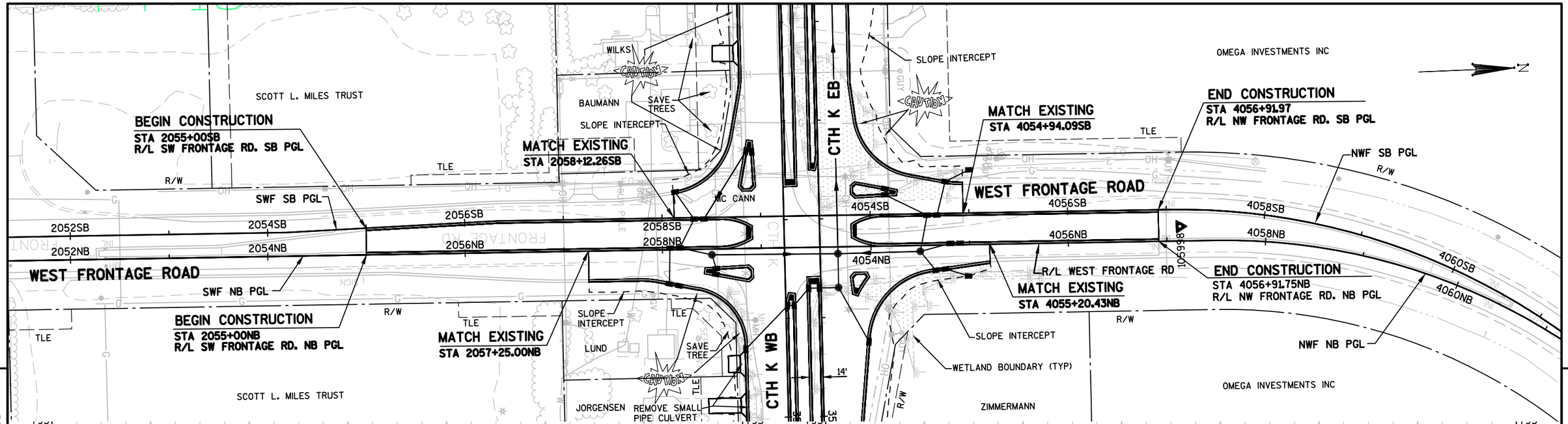
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PROFILES: CTH K	SHEET 272	E

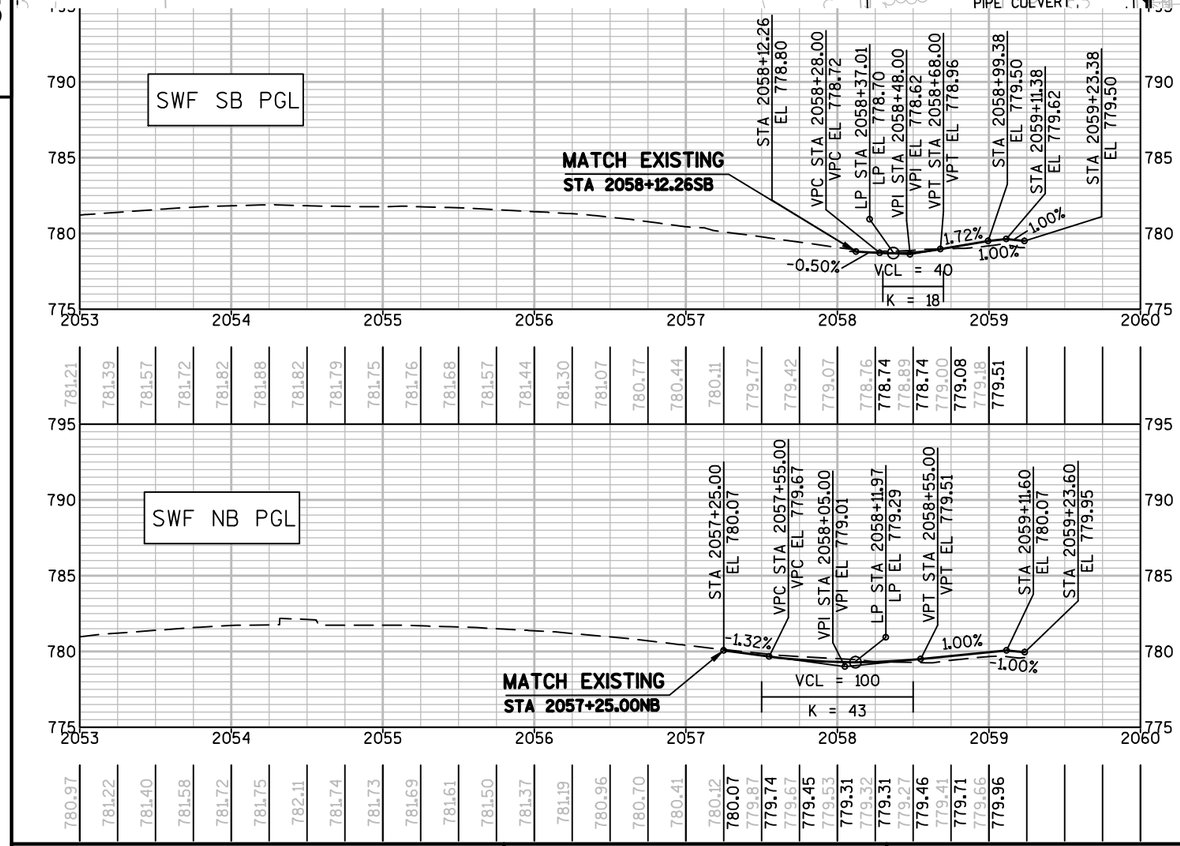
FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\050109_PP.DWG
LAYOUT NAME - 050110
PLOT DATE : 11/29/2016 5:44 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

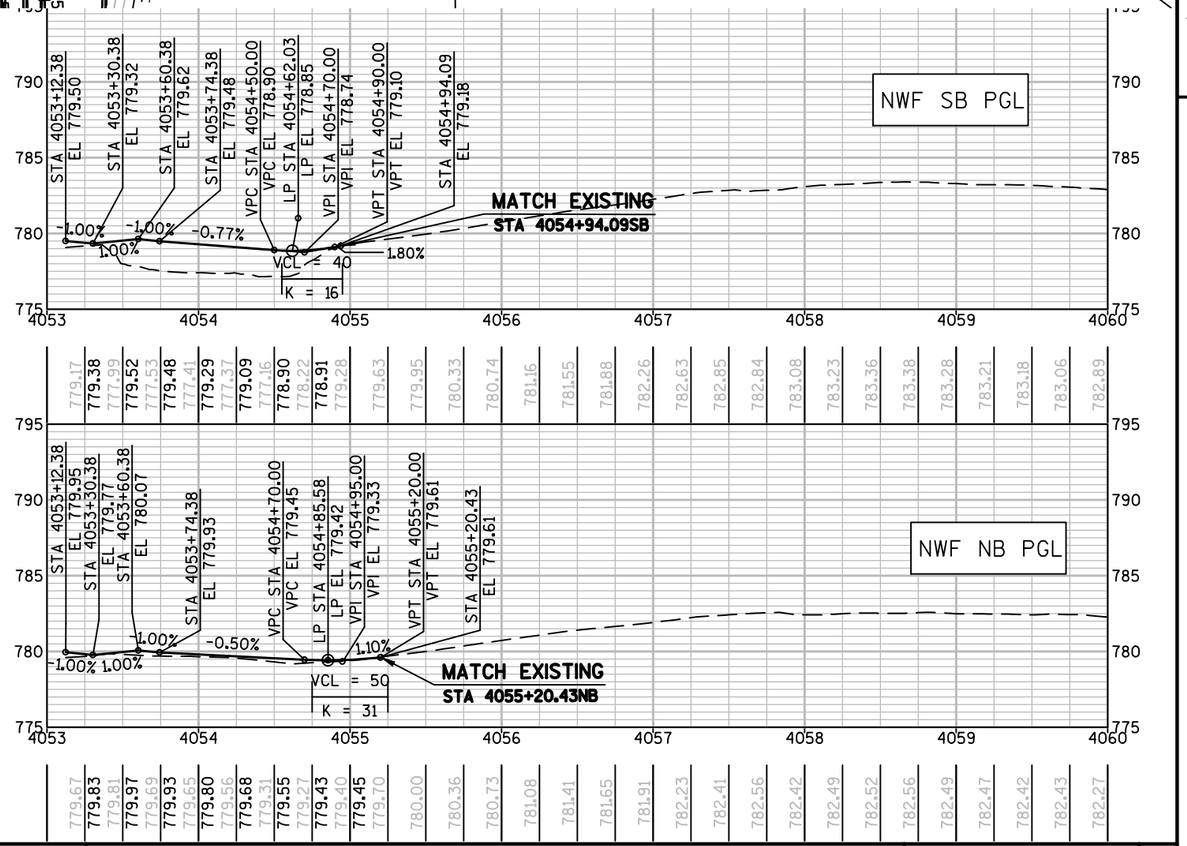


PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN AND PROFILE: CTH K - TRANSITION	SHEET 273	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\050110_PP.DWG
LAYOUT NAME - 050111
PLOT DATE : 12/13/2016 11:50 AM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



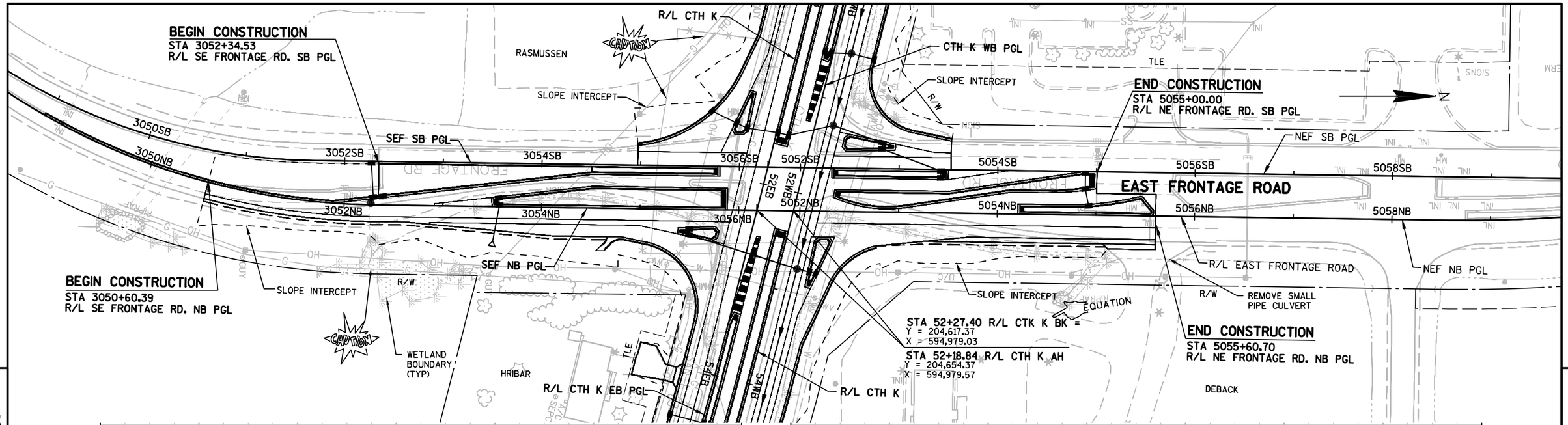


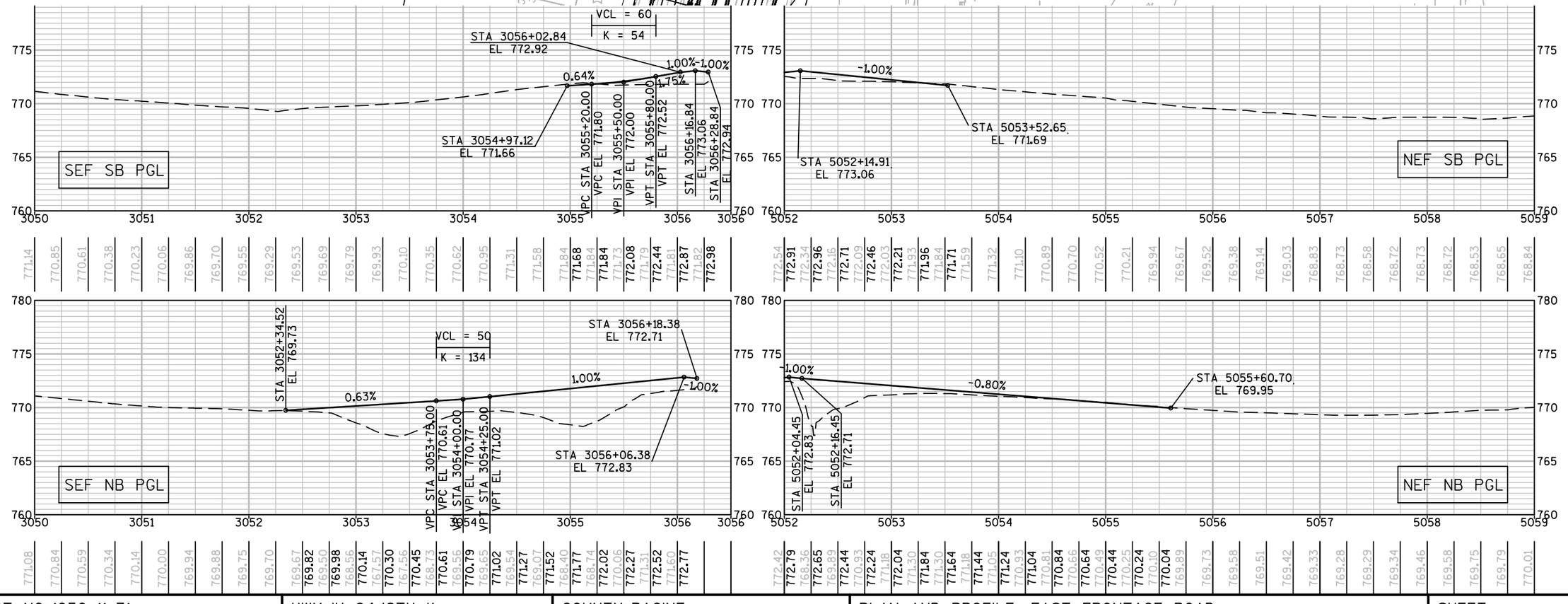


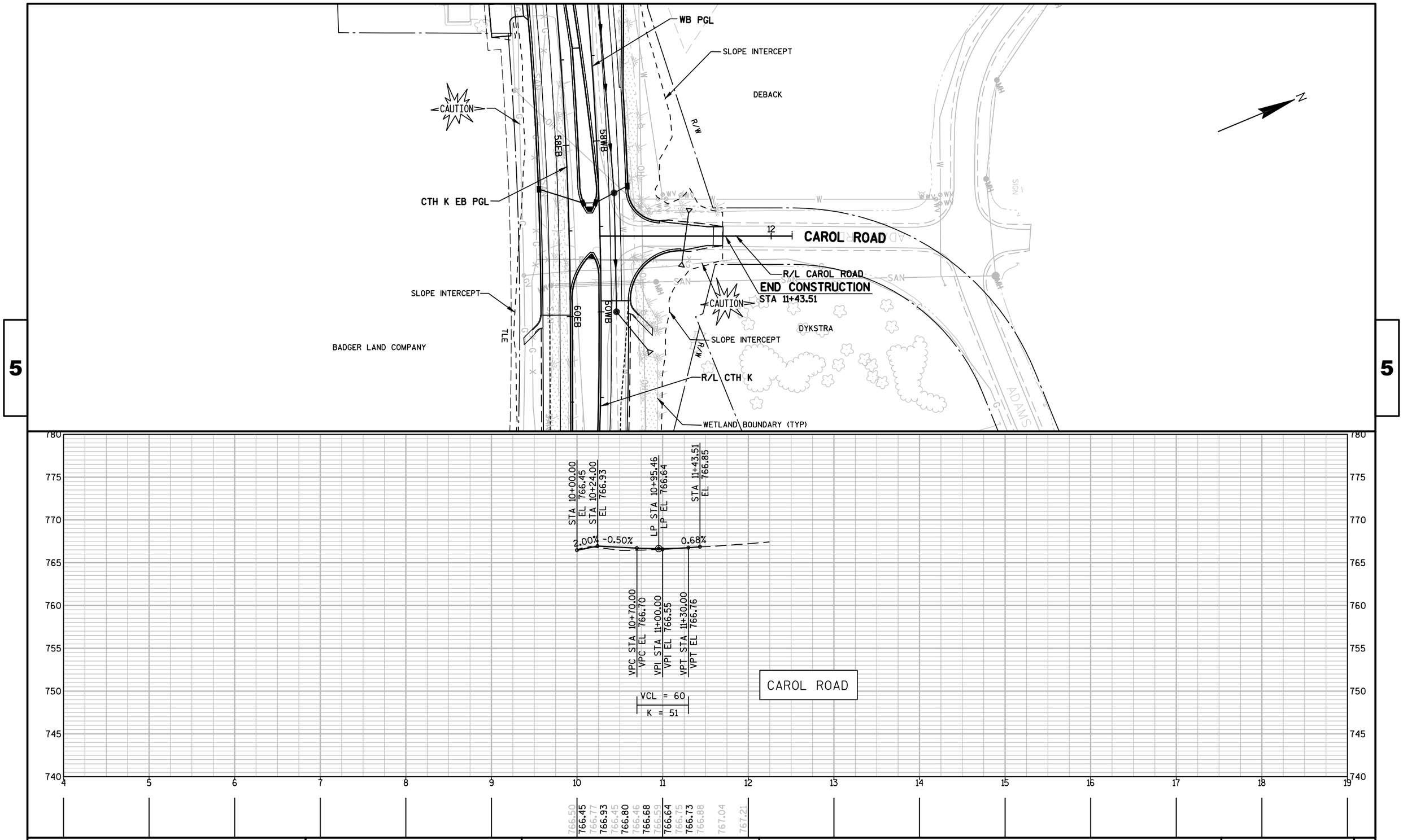
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN AND PROFILE: WEST FRONTAGE ROAD	SHEET 274 E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\050111_PP.DWG
LAYOUT NAME - 050112

PLOT DATE : 3/20/2017 9:57 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:100 FT


BEGIN CONSTRUCTION
STA 3052+34.53
R/L SE FRONTAGE RD. SB PGL
BEGIN CONSTRUCTION
STA 3050+60.39
R/L SE FRONTAGE RD. NB PGL
R/L CTH K
CAUTION
RASMUSSEN
SLOPE INTERCEPT
SEF SB PGL
SEF NB PGL
3050SB
3050NB
3052SB
3052NB
3054SB
3054NB
3056SB
3056NB
SCEB
SCWB
5052SB
5052NB
5054SB
5054NB
5056SB
5056NB
5058SB
5058NB
CTH K WB PGL
TLE
END CONSTRUCTION
STA 5055+00.00
R/L NE FRONTAGE RD. SB PGL
NEF SB PGL
EAST FRONTAGE ROAD
R/L EAST FRONTAGE ROAD
NEF NB PGL
R/W
SLOPE INTERCEPT
WETLAND
BOUNDARY
(TYP)
HRIBAR
R/L CTH K EB PGL
SCEB
SCWB
STA 52+27.40 R/L CTK K BK =
Y = 204,617.37
X = 594,979.03
STA 52+18.84 R/L CTH K AH
Y = 204,654.37
X = 594,979.57
EQUATION
REMOVE SMALL
PIPE CULVERT
END CONSTRUCTION
STA 5055+60.70
R/L NE FRONTAGE RD. NB PGL
DEBACK


SEF SB PGL
VCL = 60
K = 54
STA 3056+02.84
EL 772.92
1.00%
-1.00%
0.64%
1.75%
STA 3054+97.12
EL 771.66
VPC STA 3055+20.00
VPC EL 771.80
VPI STA 3055+50.00
VPI EL 772.00
VPT STA 3055+80.00
VPT EL 772.52
STA 3056+16.84
EL 773.06
STA 3056+28.84
EL 772.94
NEF SB PGL
-1.00%
STA 5053+52.65
EL 771.69
STA 5052+14.91
EL 773.06
SEF NB PGL
STA 3052+34.52
EL 769.73
VCL = 50
K = 134
STA 3056+18.38
EL 772.71
1.00%
-1.00%
0.63%
STA 3056+06.38
EL 772.83
VPC STA 3053+75.00
VPC EL 770.61
VPI STA 3054+00.00
VPI EL 770.77
VPT STA 3054+25.00
VPT EL 771.02
NEF NB PGL
1.00%
-0.80%
STA 5055+60.70
EL 769.95
STA 5052+04.45
EL 772.83
STA 5052+16.45
EL 772.71



PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	PLAN AND PROFILE: CAROL RD	SHEET 276	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\050115_PP.DWG
LAYOUT NAME - 050114

PLOT DATE : 12/13/2016 12:11 PM PLOT BY : SPAETH, MICHELE L PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

Standard Detail Drawing List

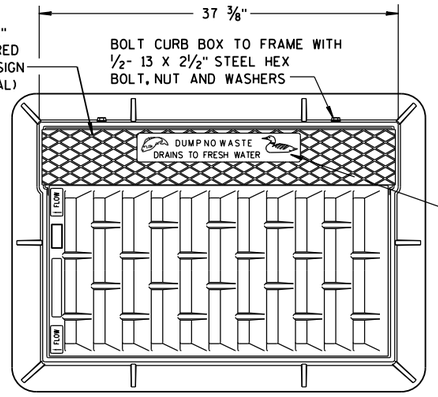
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-01	INLETS 3-FT AND 4-FT DIAMETER
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-09	CONDUIT
09B04-11	PULL BOX
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C12-08A	CONCRETE BASE TYPE 13
09C12-08B	CONCRETE BASE TYPE 13
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-03	SIGNAL CONTROL CABINET
09E01-14D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-14G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-05	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E08-08D	TYPE 13 POLE 35'-55' MONOTBE ARM
09E08-08E	GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS
09F15-04A	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
10A01-03	ELECTRICAL HANDHOLE WIRING
10A02-03	IDENTIFICATION PLAQUES LIGHT POLES
10A05-02	ELECTRICAL DETAILS GROUND MOUNT LIGHT POLES ISOLATED NEUTRAL SYSTEMS
11B01-05	CONCRETE CORRUGATED MEDIAN
11B02-02	CONCRETE MEDIAN NOSE
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
13A03-06	CONCRETE PAVEMENT SHOULDERS
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-08	URBAN DOWELED CONCRETE PAVEMENT
13C15-06A	CONCRETE BASE
13C18-03A	CONCRETE PAVEMENT JOINTING
13C18-03B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-03C	CONCRETE PAVEMENT JOINT TIES
13C18-03D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-13B	PAVEMENT MARKING WORDS
15C07-13C	PAVEMENT MARKING ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C11-06	FLEXIBLE TUBULAR MARKER POST
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C18-03	MEDIAN ISLAND MARKING
15C21-07	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C24-04	36" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE
15C27-01	DOUBLE ARROW WARNING SIGN PLACEMENT
15C29-04A	BICYCLE LANE MARKING
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING

6

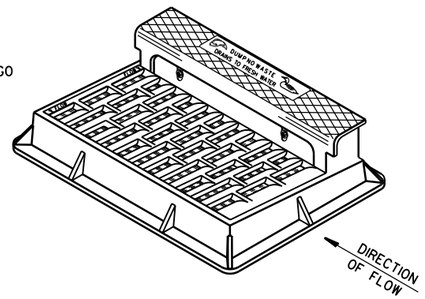
Standard Detail Drawing List

15D21-04	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-01A	TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS
15D38-01B	ATTACHMENT OF SIGNS TO POSTS

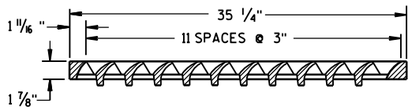
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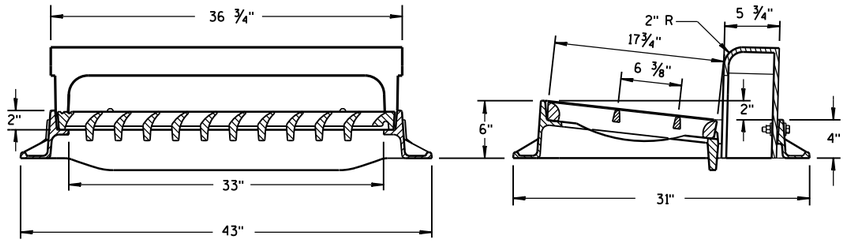


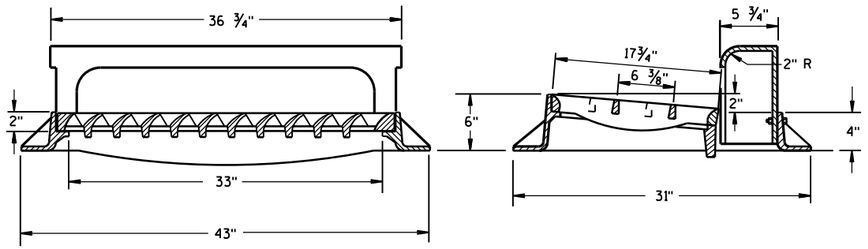
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

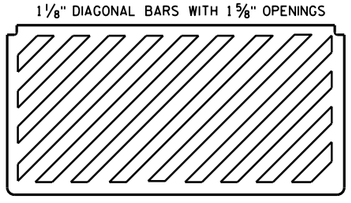






TYPE "H"

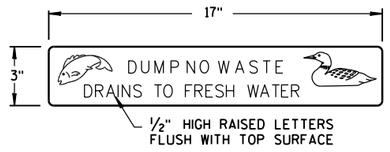
NOTE: EITHER CASTING IS ACCEPTABLE



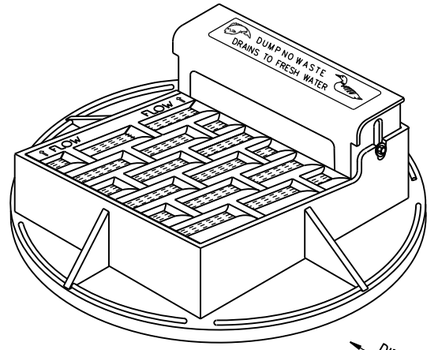
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

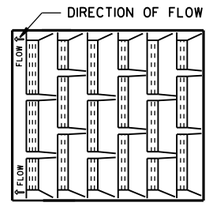
NOTE:
GRATE IS REVERSIBLE.

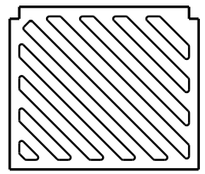
GENERAL NOTES

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.

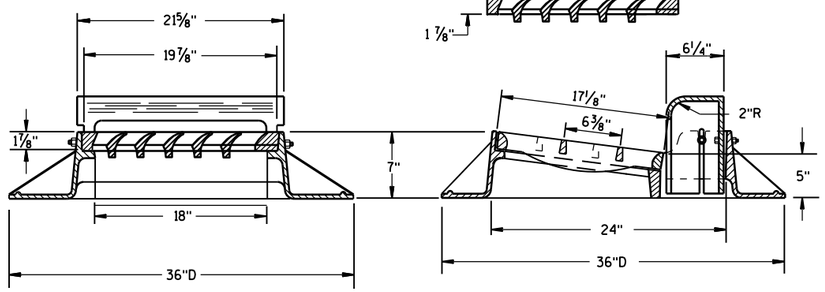




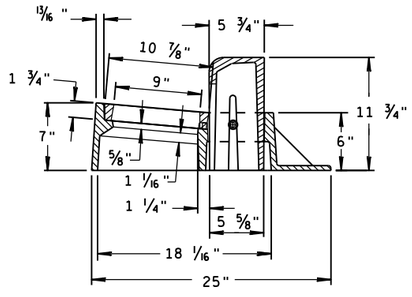
SPECIAL GRATE FOR TYPE "A" COVER

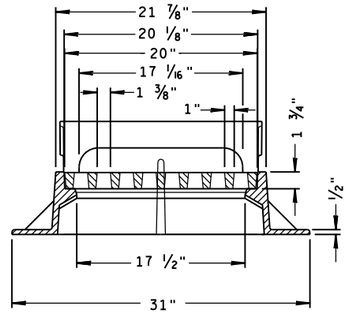
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)

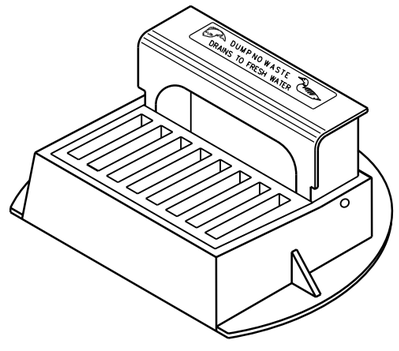


TYPE "A"





TYPE "Z"



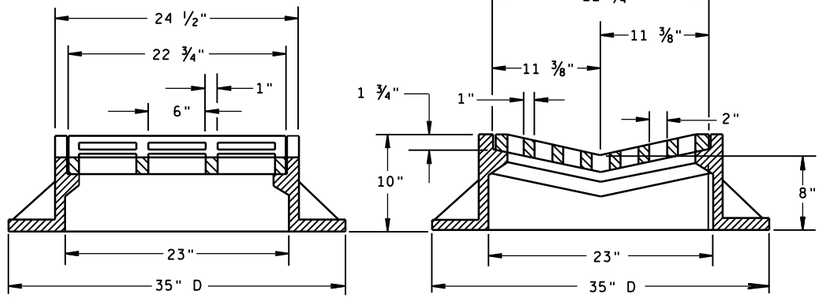
INLET COVERS
TYPE A, H, A-S, H-S & Z

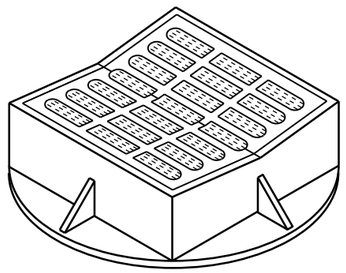
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

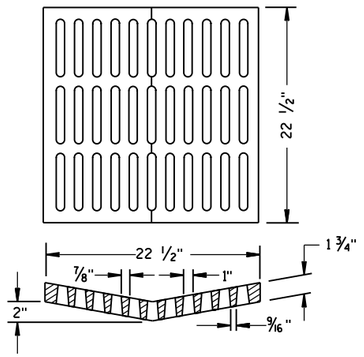
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S.D.D. 8 A 5-19a



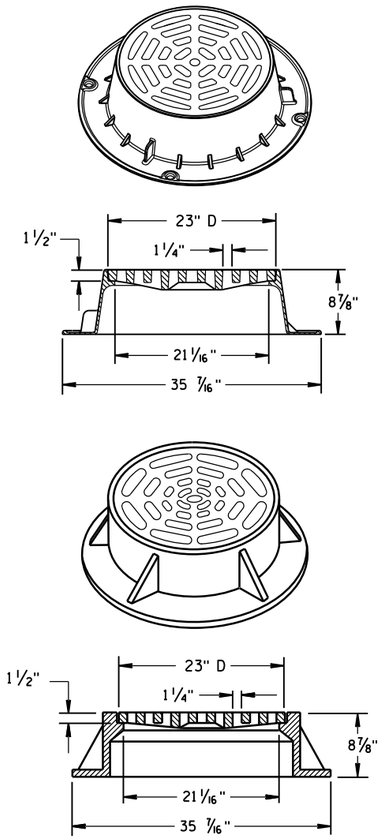


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

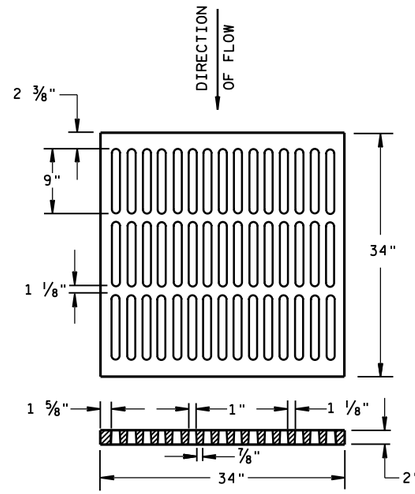
NOTE: EITHER CASTING IS ACCEPTABLE

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.

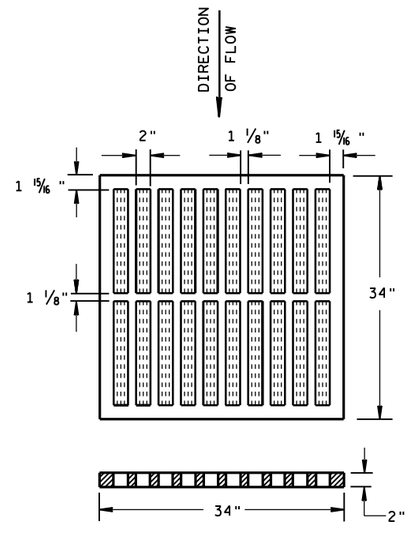
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



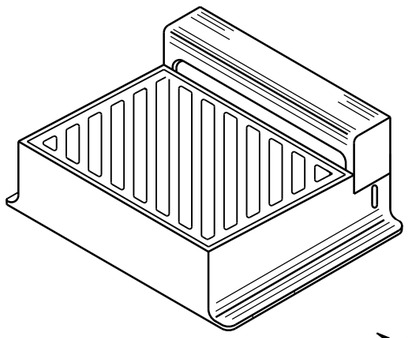
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

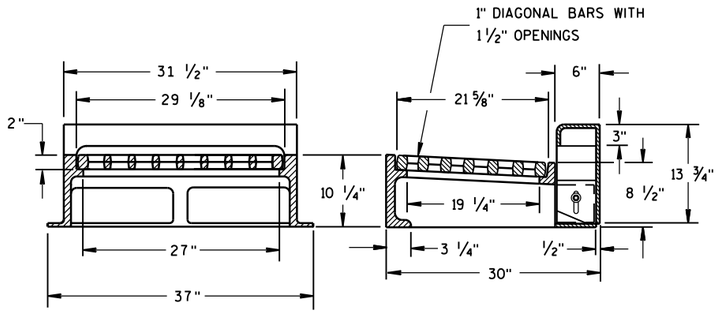


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



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"

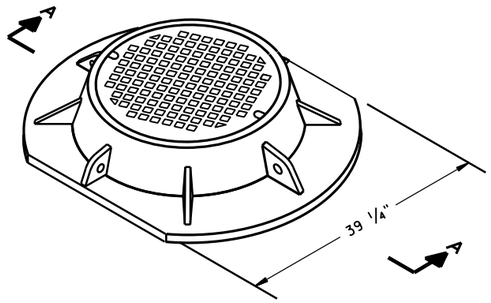
INLET COVERS
TYPE B, B-A, C,
MS, MS-A, & WM

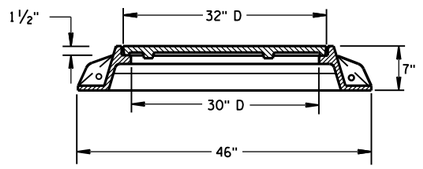
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

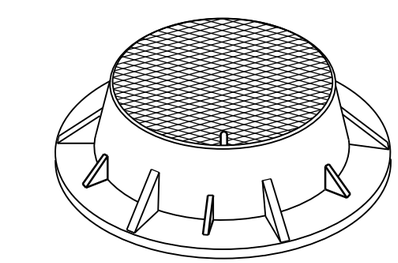
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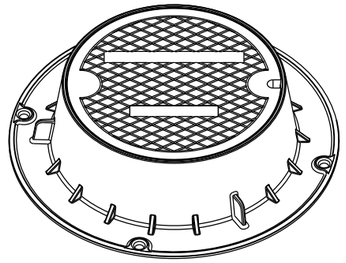
S.D.D. 8 A 5-19b

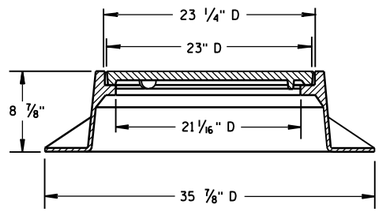


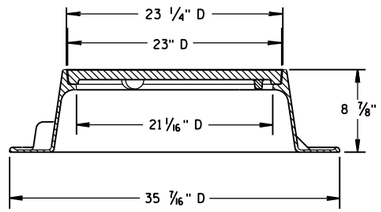


SECTION A-A
TYPE "K"









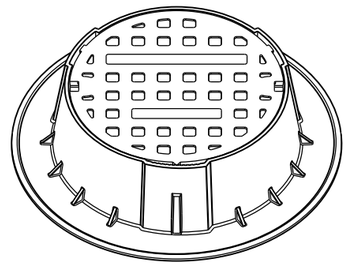
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

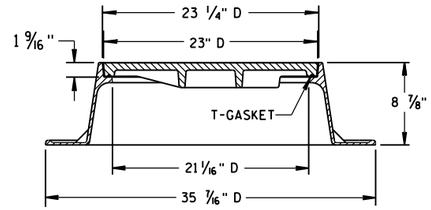
GENERAL NOTES

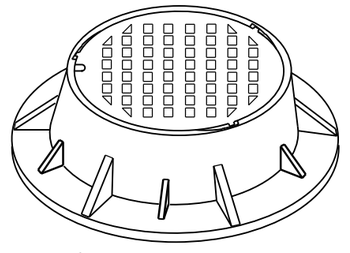
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

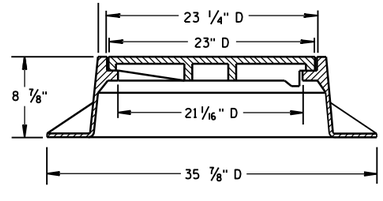
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

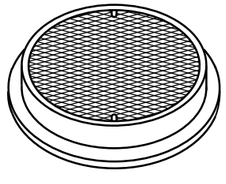


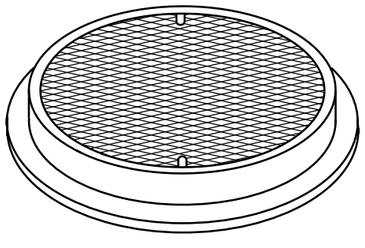


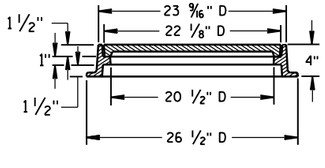




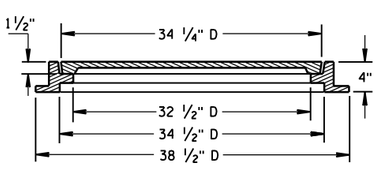
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



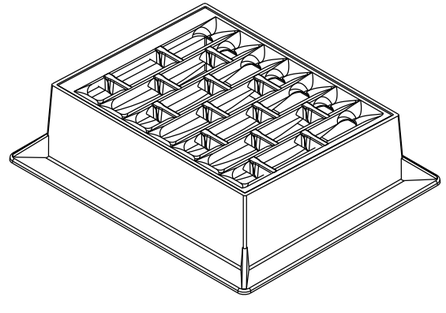


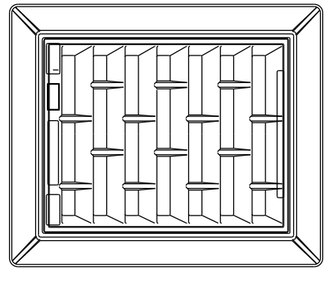


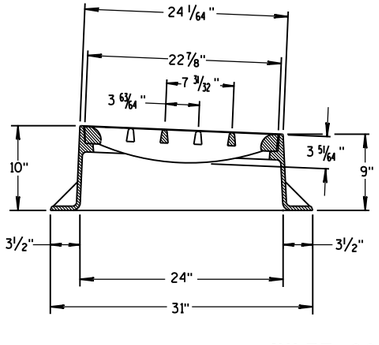
TYPE "L"

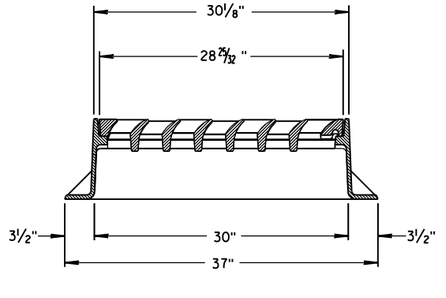


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

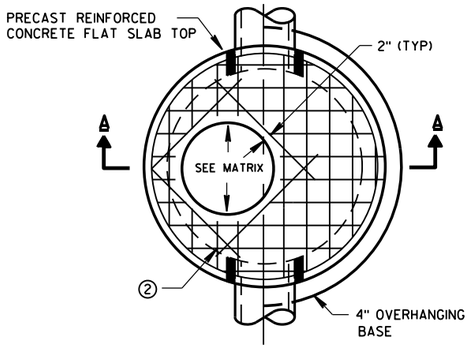
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

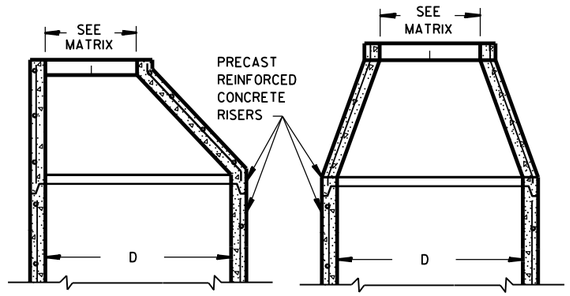
S.D.D. 8 A 5-19d

6

S.D.D. 8 A 5-19d

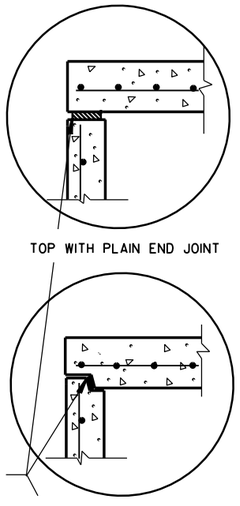


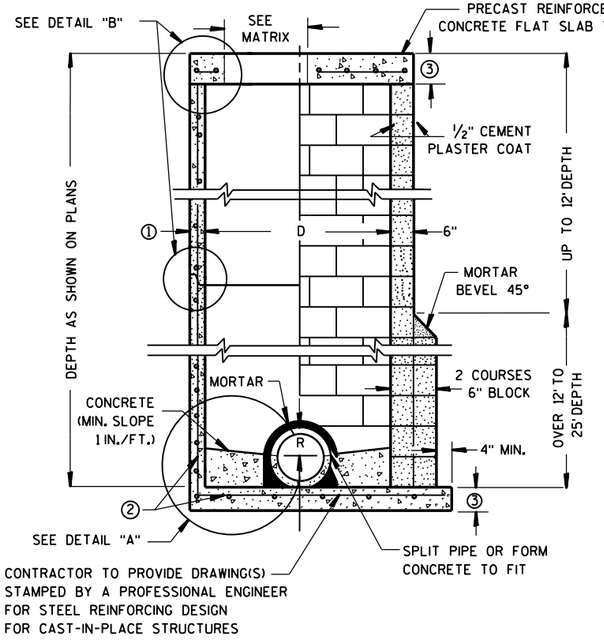
PLAN VIEW CIRCULAR OPENING



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

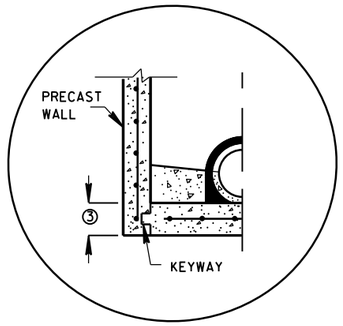
OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP



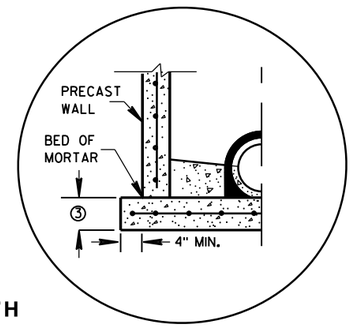


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

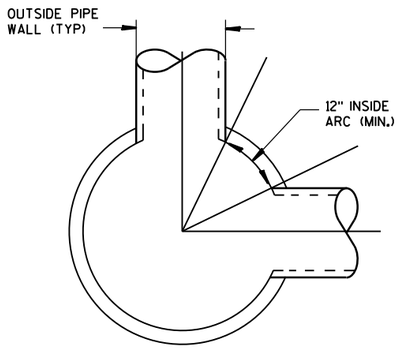


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

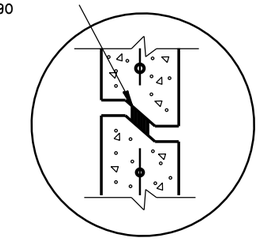


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"



DETAIL "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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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) OR PRECAST REINFORCED 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 AASHTO M199 AND 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. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

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.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

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

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

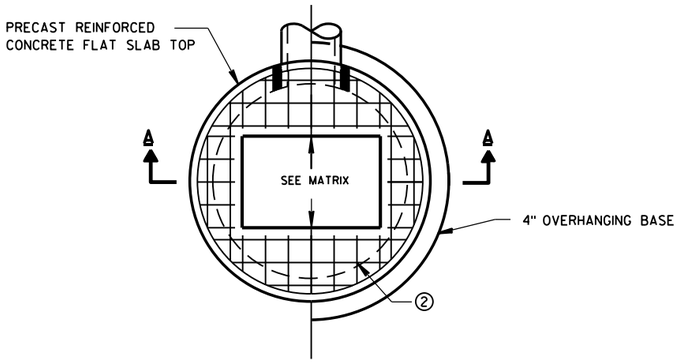
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

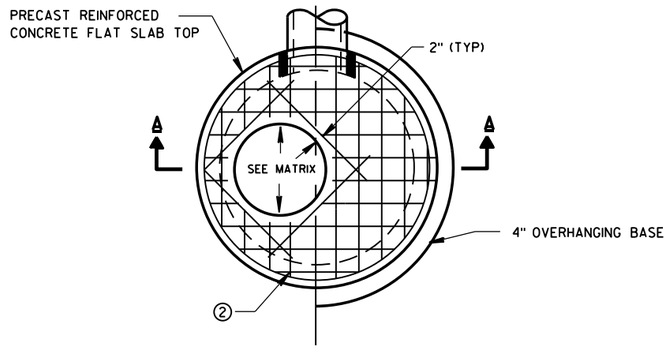
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

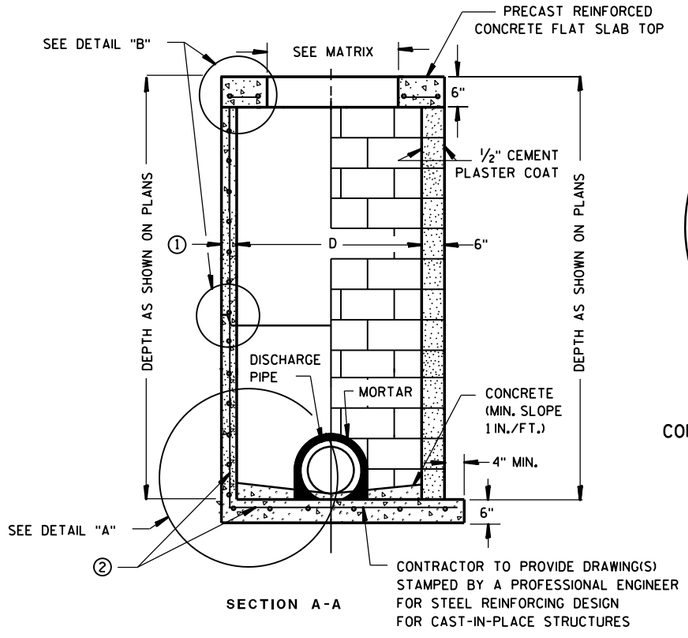
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S.D.D. 8 B 9-1



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

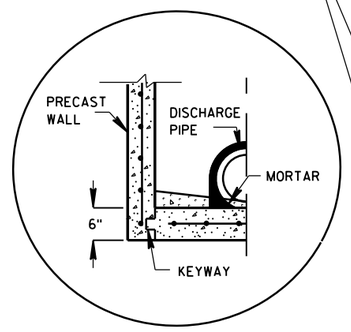


SECTION A-A

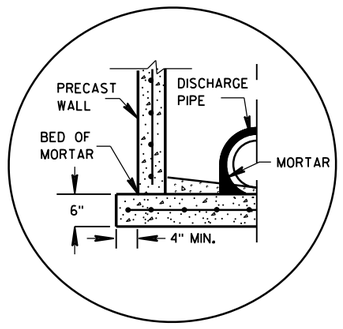
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

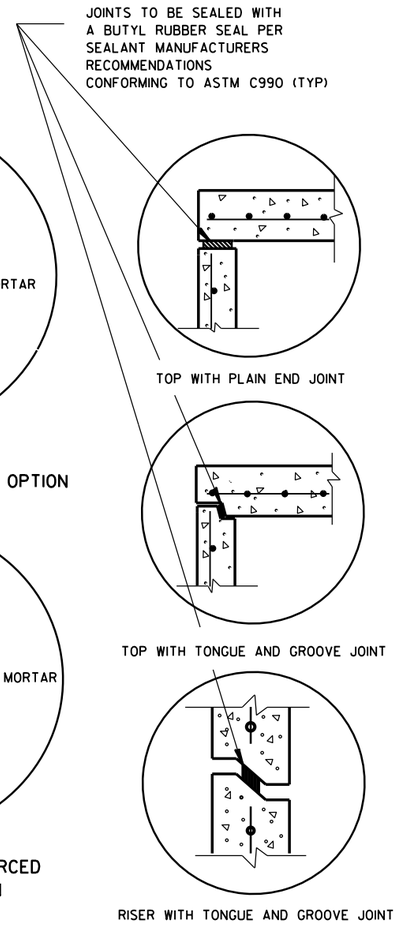


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "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.

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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.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

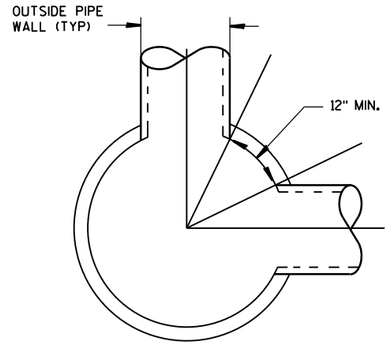
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

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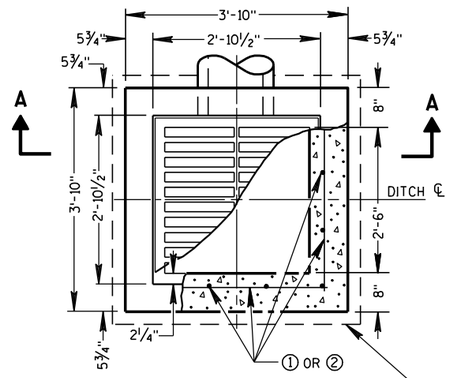
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FHWA

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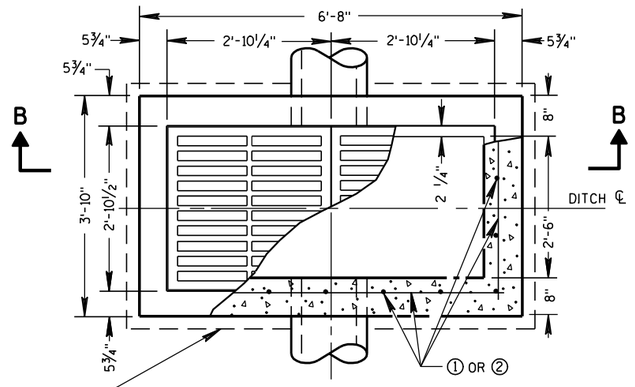
S.D.D. 8 C 6-1

6

S.D.D. 8 C 6-1

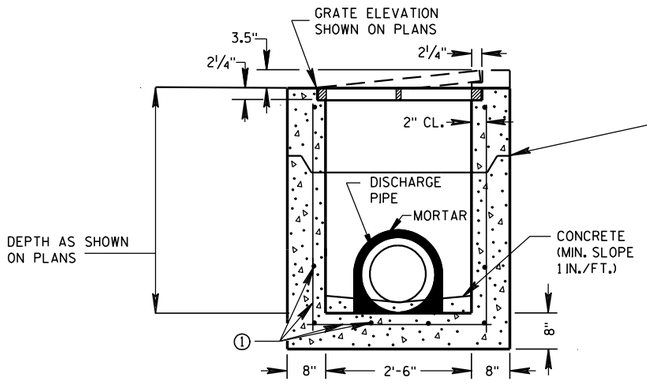


PLAN VIEW

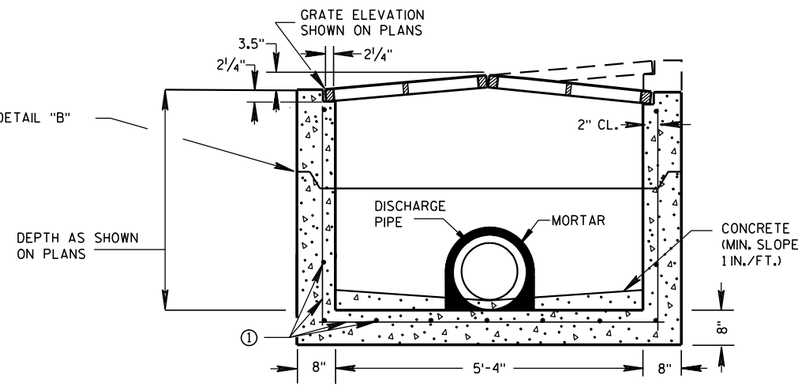


PLAN VIEW

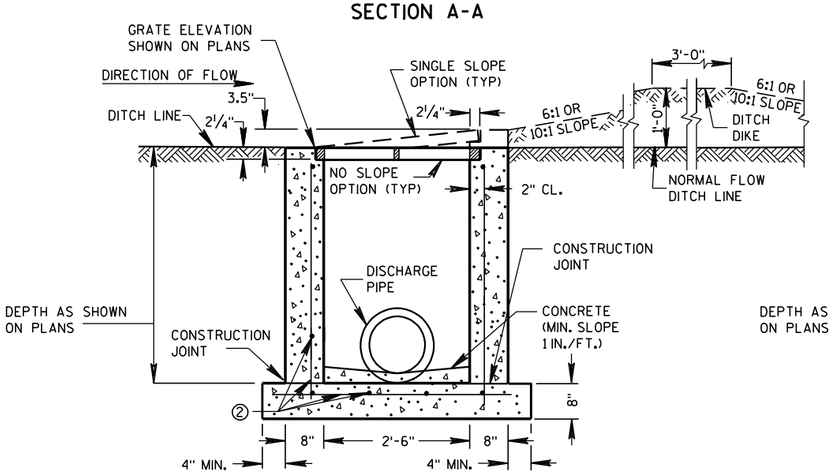
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



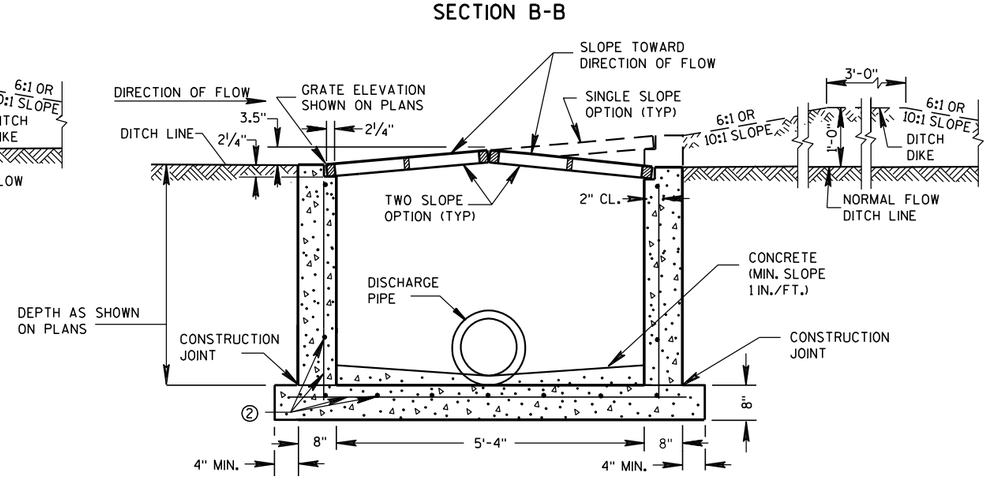
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE 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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

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

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

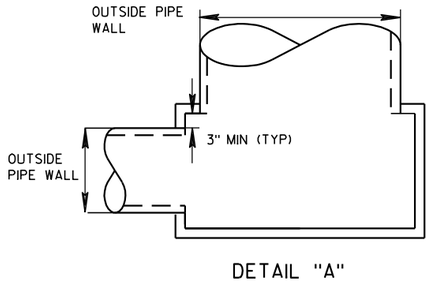
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

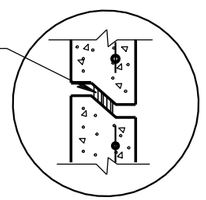
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

INLETS MEDIAN 1 AND 2 GRATE

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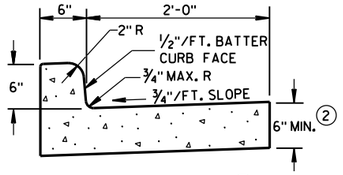
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FHWA

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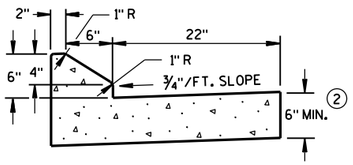
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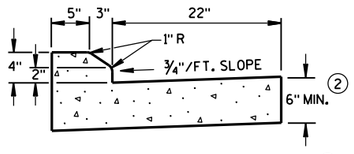
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TYPES A & D ①

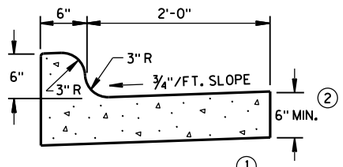


6" SLOPED CURB TYPES G & J ①

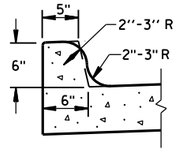


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

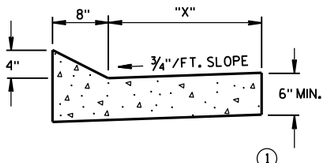


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

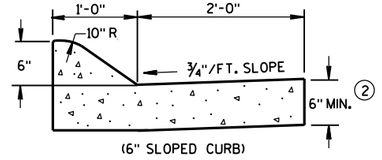
CONCRETE CURB & GUTTER 30"



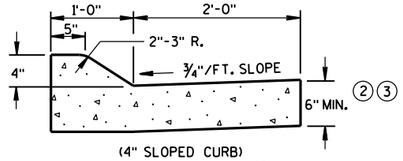
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

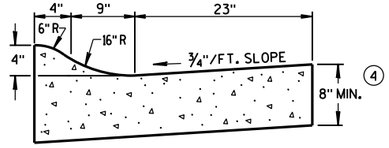


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

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, R AND TBTT.

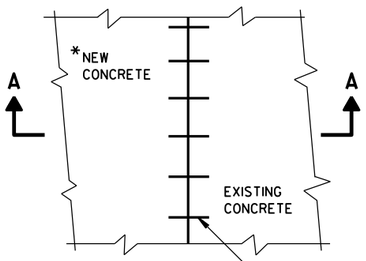
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

④ 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.

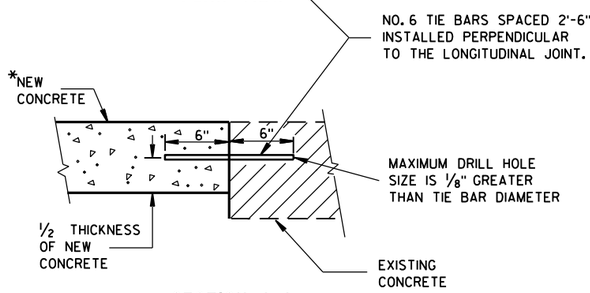
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



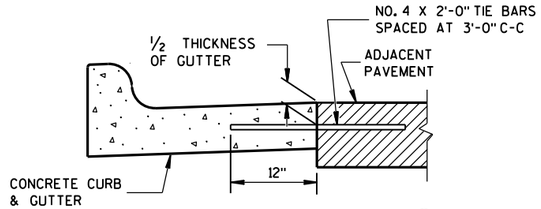
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

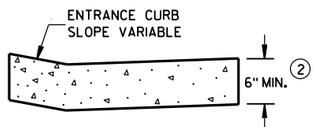


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

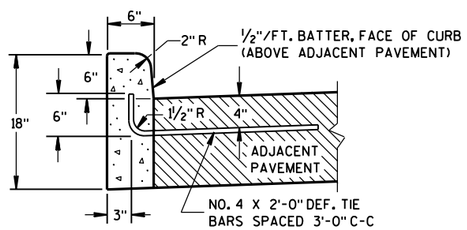


TYPICAL TIE BAR LOCATION ①

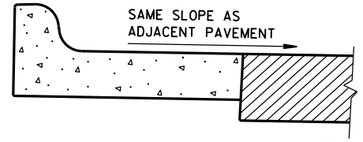


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

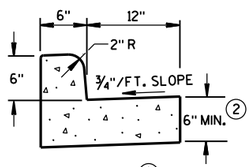


① TYPES A & D



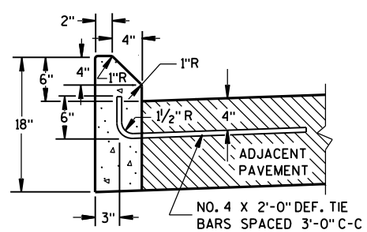
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



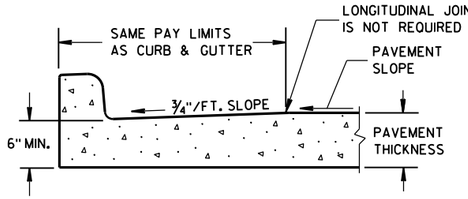
① TYPES A & D

CONCRETE CURB & GUTTER 18"

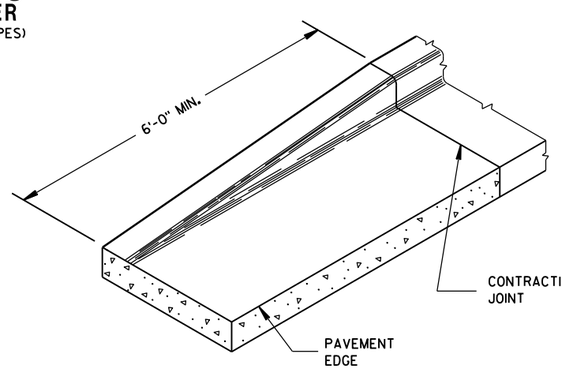


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

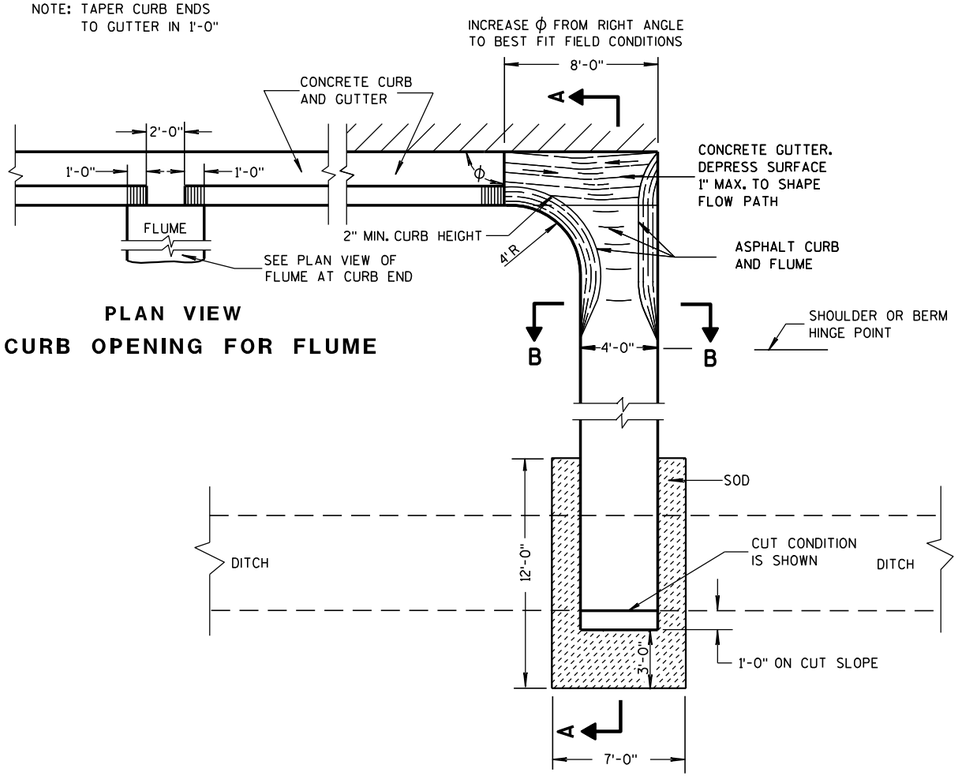
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

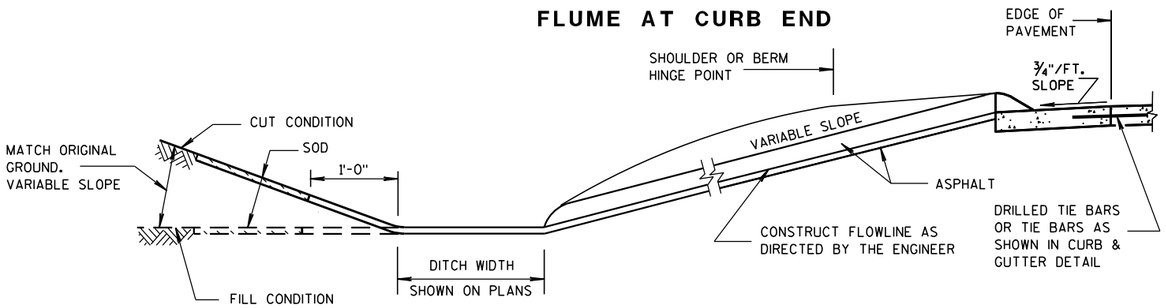
S.D.D. 8 D 1-19

ASPHALTIC FLUME

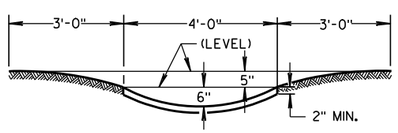


PLAN VIEW
CURB OPENING FOR FLUME

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.

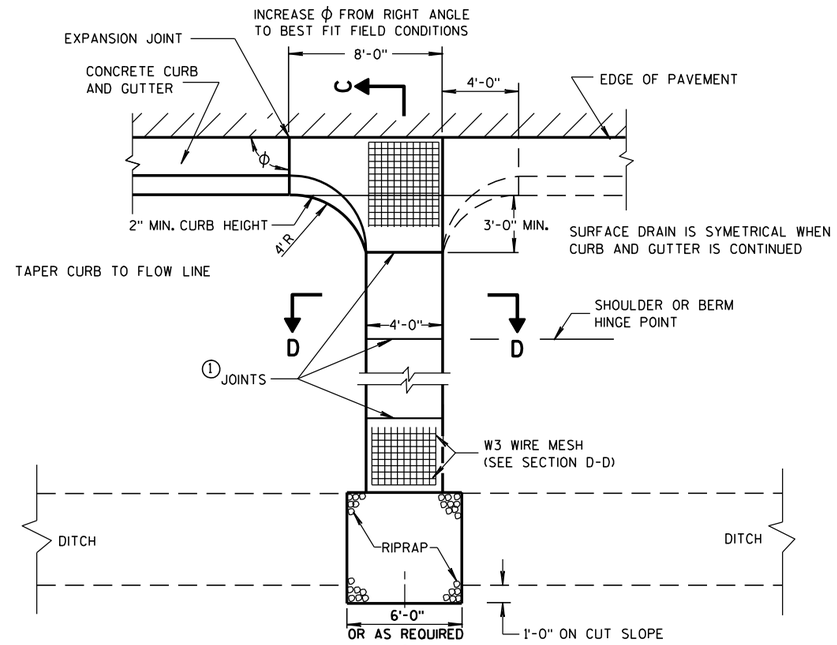
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

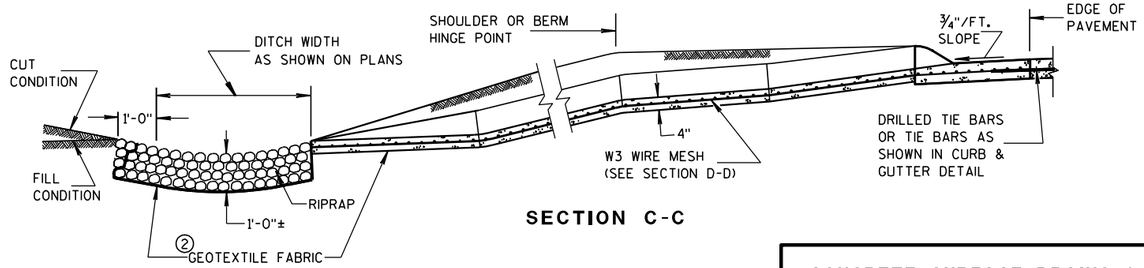
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

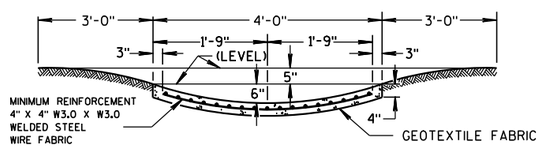
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

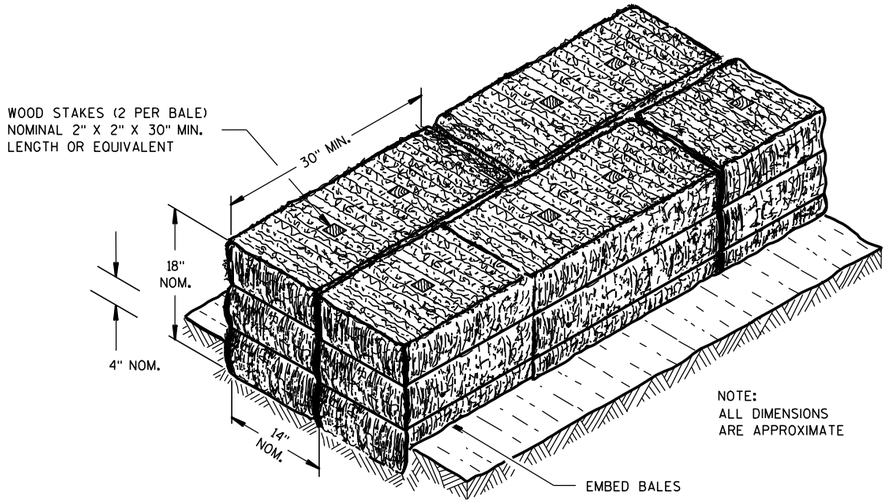
APPROVED
9-4-08 DATE
/S/ Jerry H. [illegible]
ROADWAY STANDARDS ENGINEER
FHWA

6

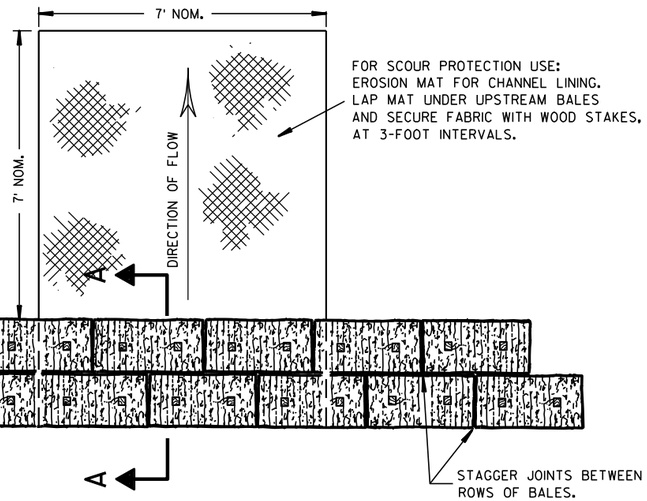
S.D.D. 8 D 4-5

6

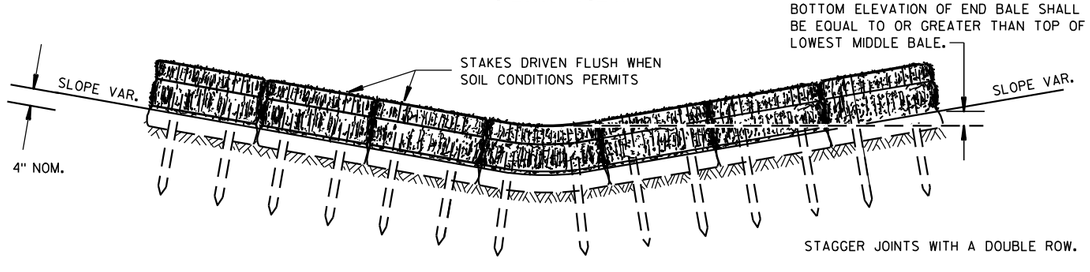
S.D.D. 8 D 4-5



SECTION A-A



PLAN VIEW



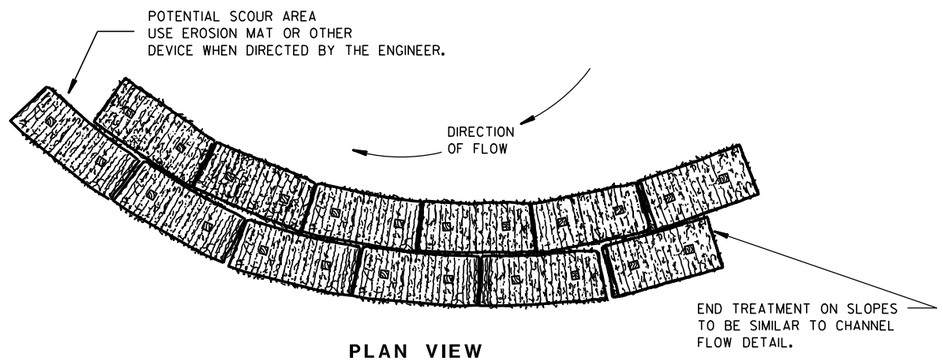
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

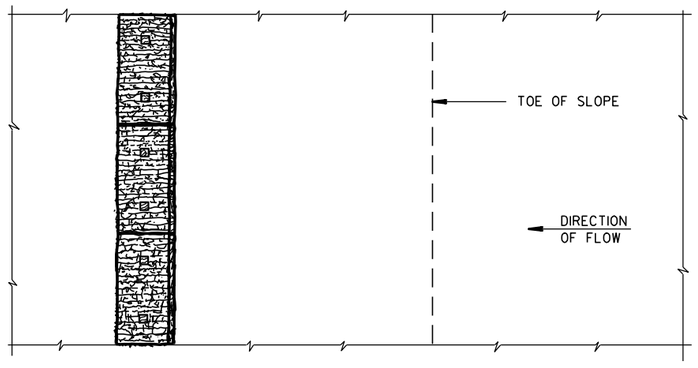
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

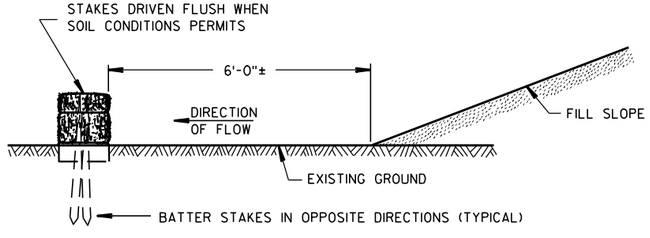


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 DATE — /S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER

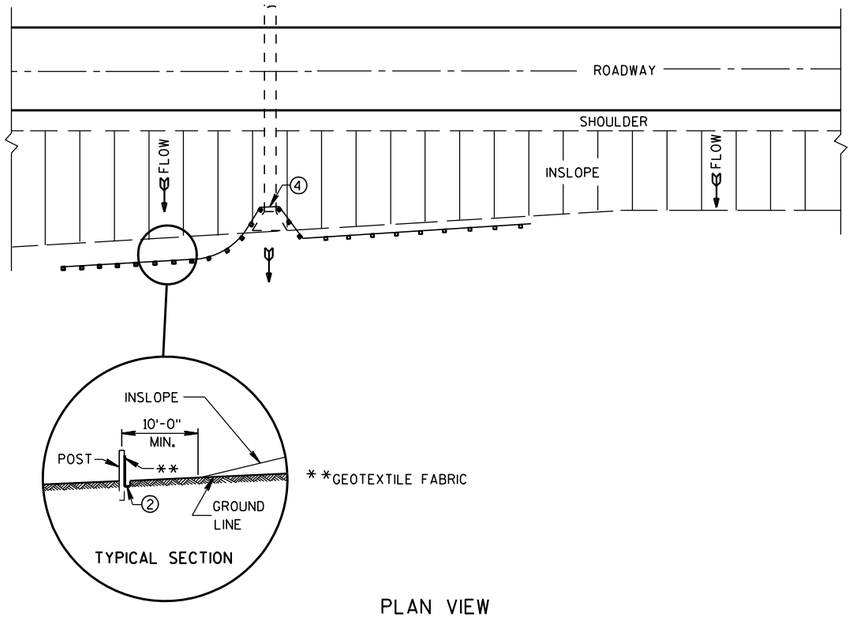
FHWA

6

S.D.D. 8 E 8-3

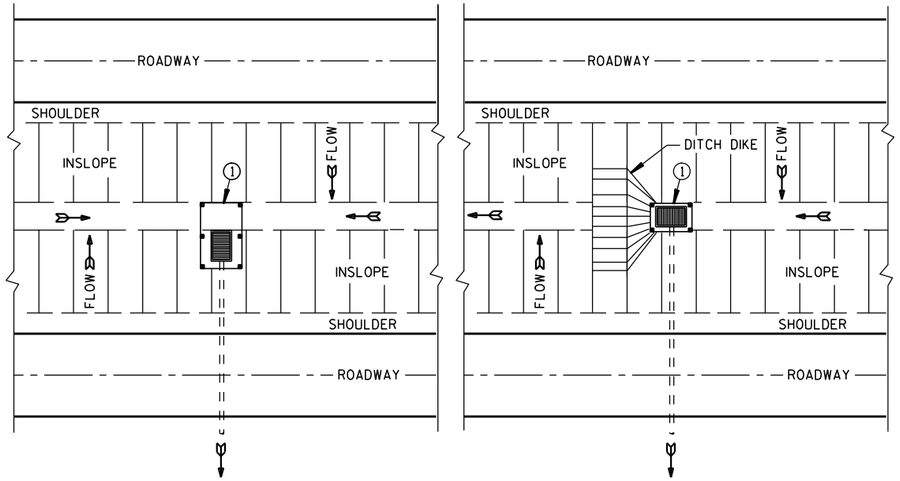
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



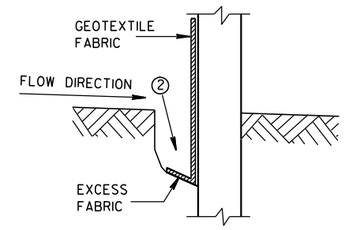
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

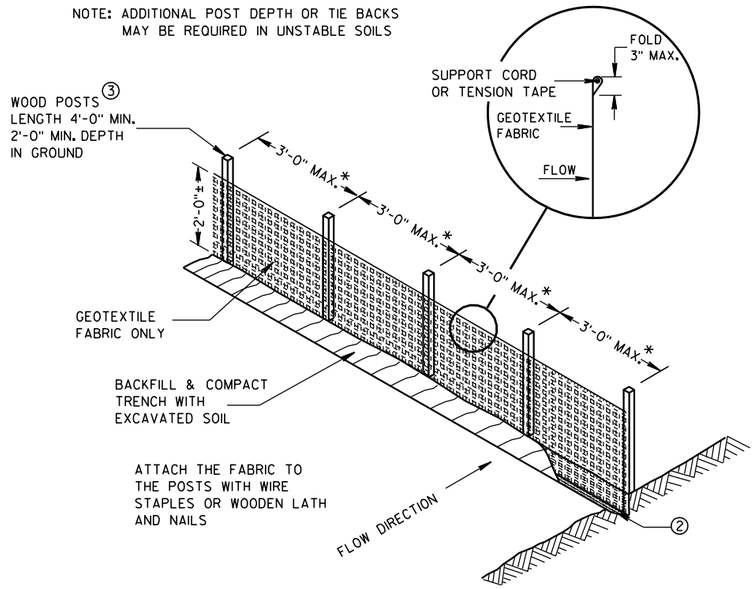
GENERAL NOTES

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

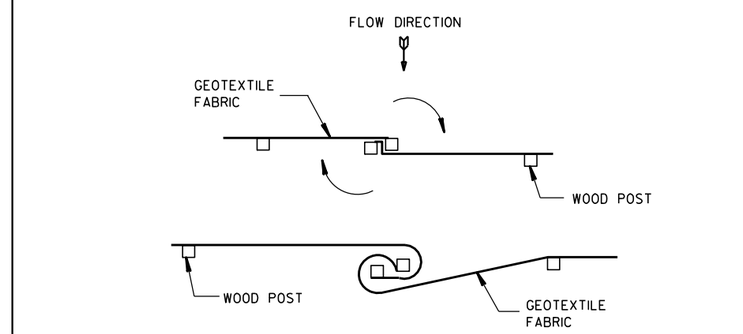
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



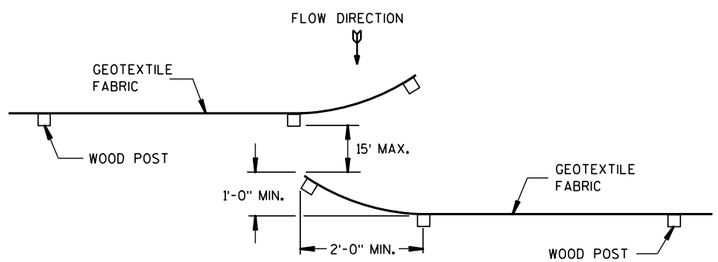
TRENCH DETAIL



SILT FENCE

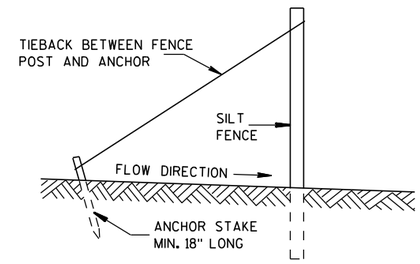


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

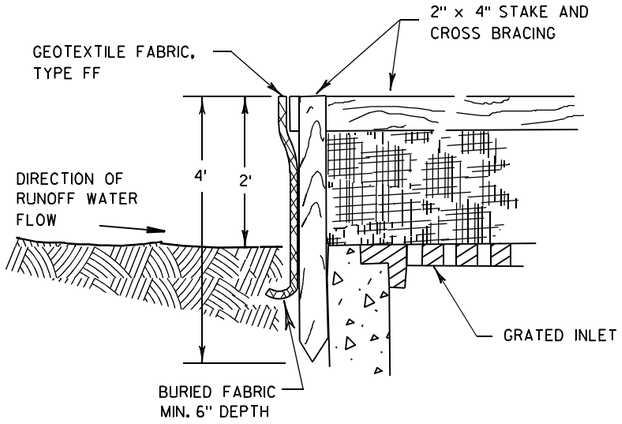
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

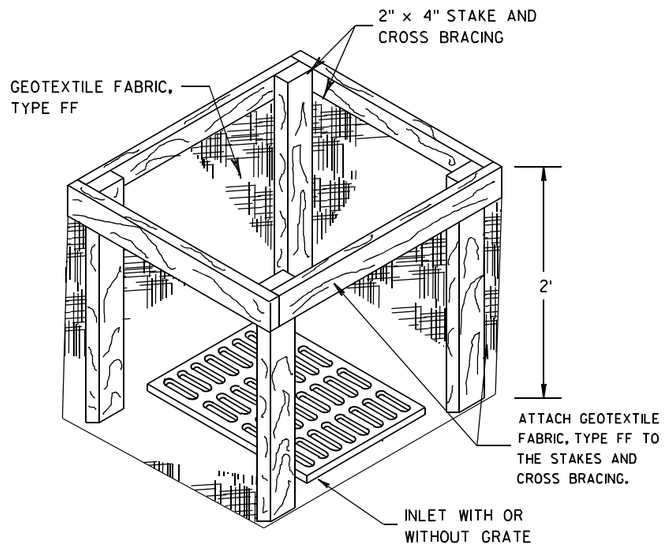
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S.D.D. 8 E 9-6

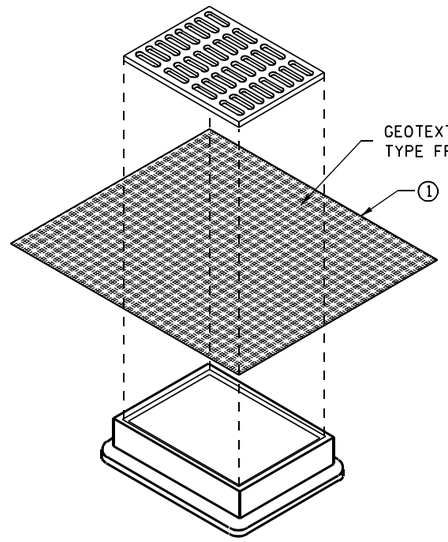
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S.D.D. 8 E 9-6



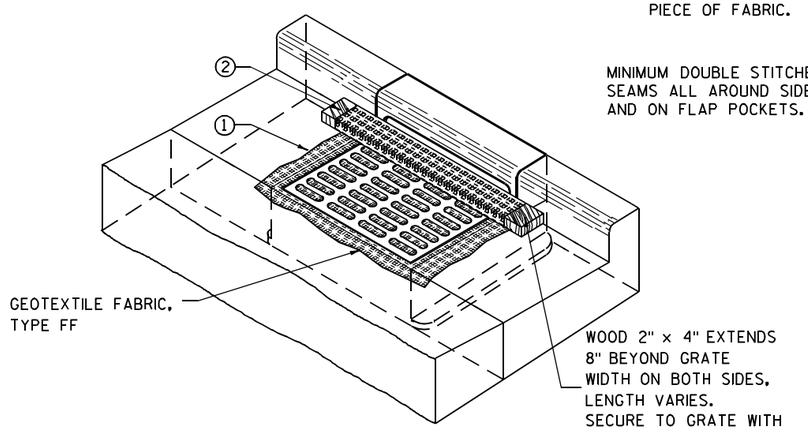


INLET PROTECTION, TYPE A

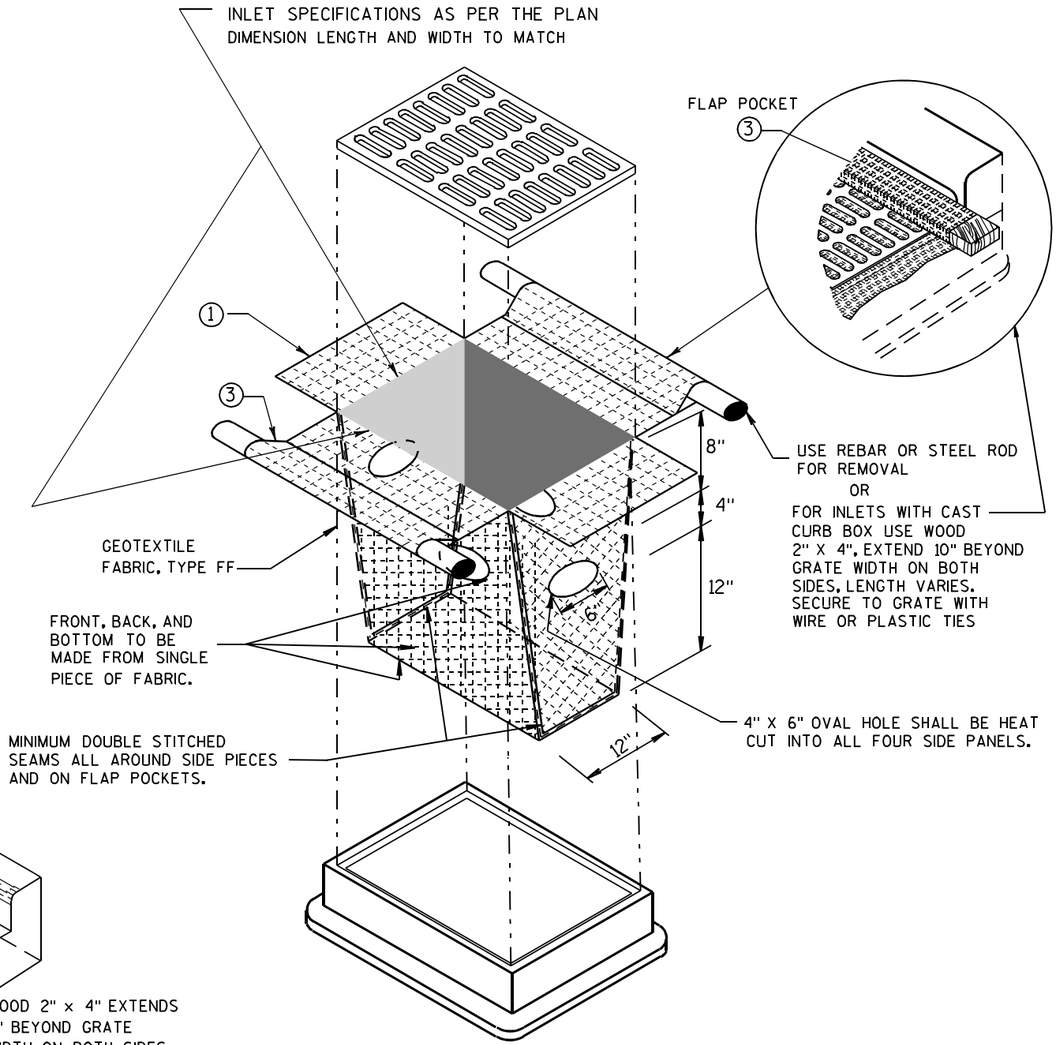


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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.

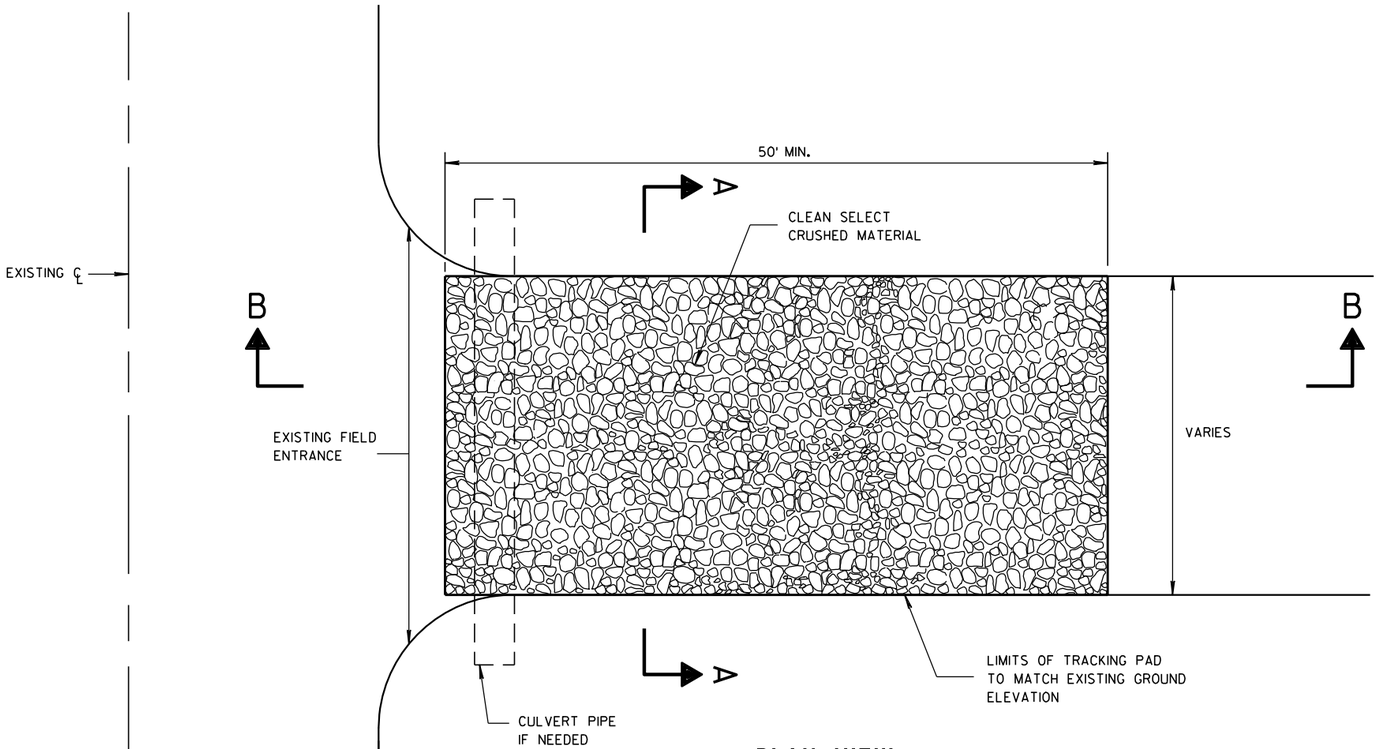
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

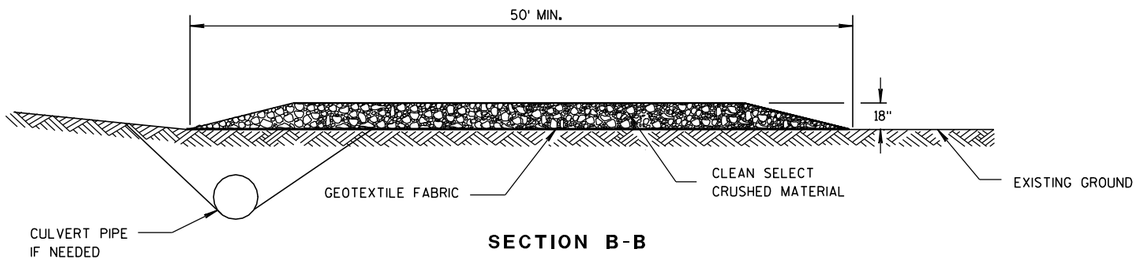
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



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.

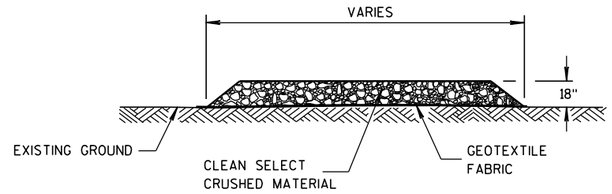
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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	/S/ Jerry H. Zoda	
DATE	ROADWAY STANDARDS ENGINEER	ENT

FHWA

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S.D.D. 8 E 14-1

METAL APRON ENDWALLS

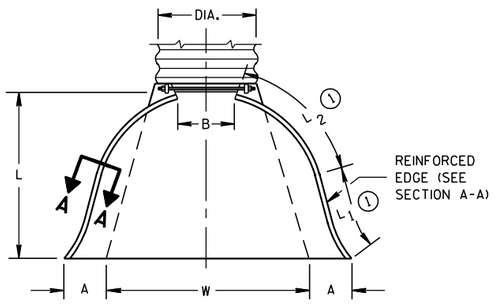
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

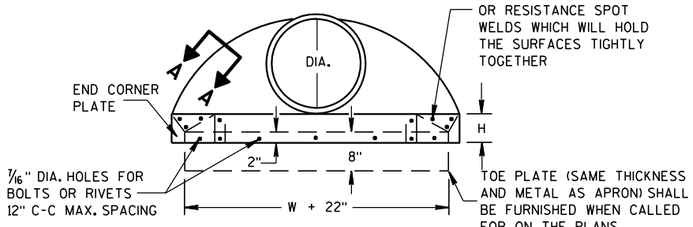
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	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 3/4	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

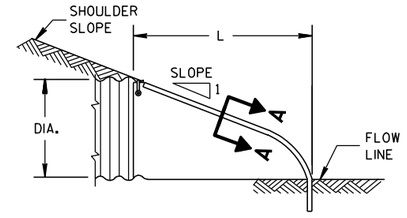
*MINIMUM
**MAXIMUM



PLAN VIEW

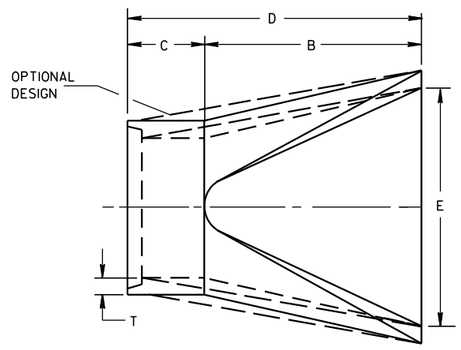


END VIEW

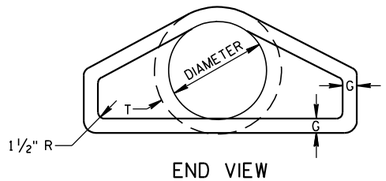


SIDE ELEVATION

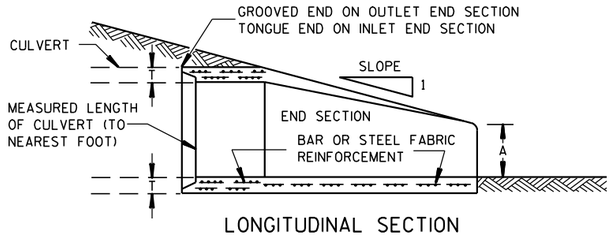
METAL ENDWALLS



PLAN

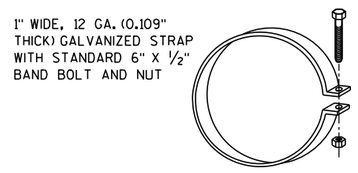


END VIEW



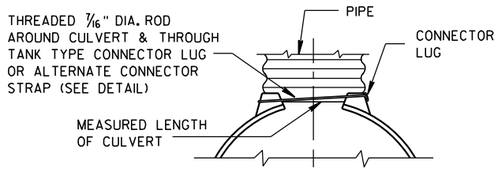
LONGITUDINAL SECTION

CONCRETE ENDWALLS

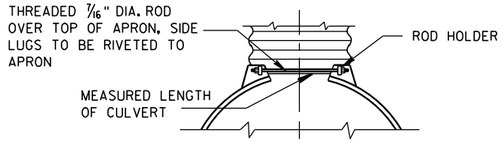


ALTERNATE FOR TYPE 1 CONNECTION

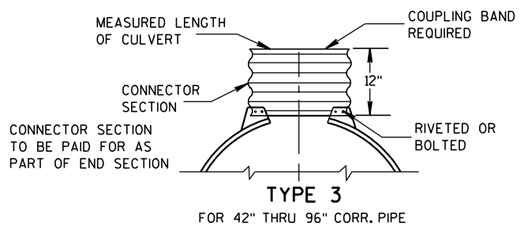
END SECTION CONNECTOR STRAP



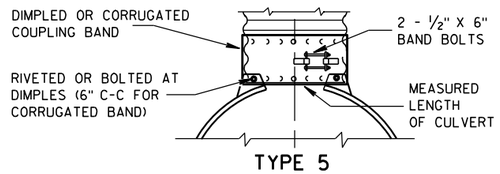
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

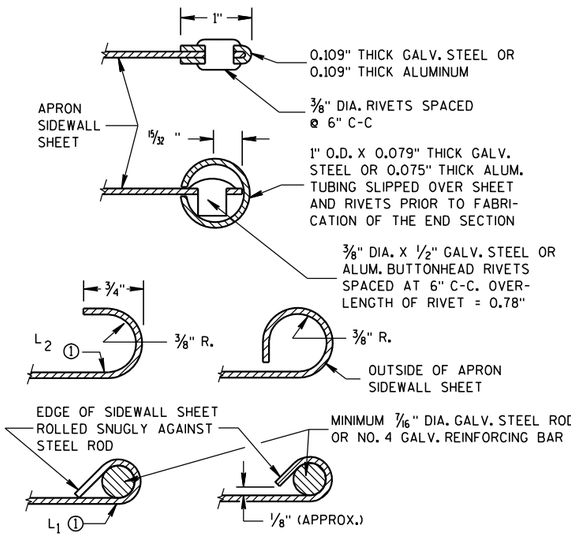
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

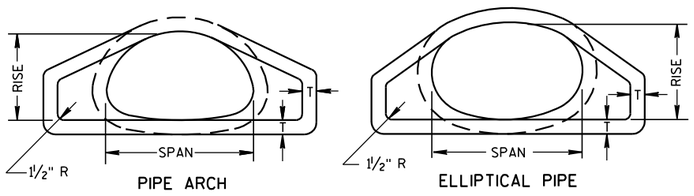
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

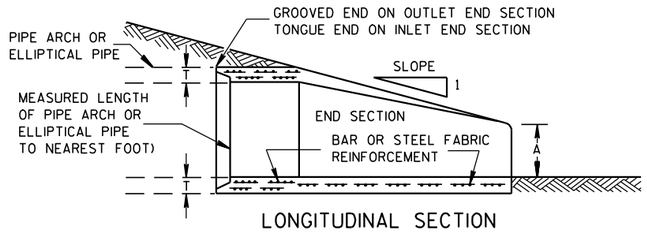
APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

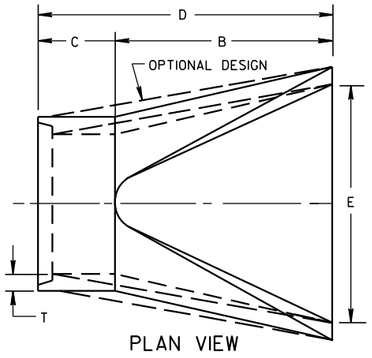
S.D.D. 8 F 1-11



END VIEW

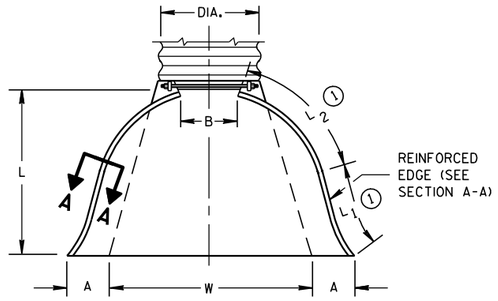


LONGITUDINAL SECTION

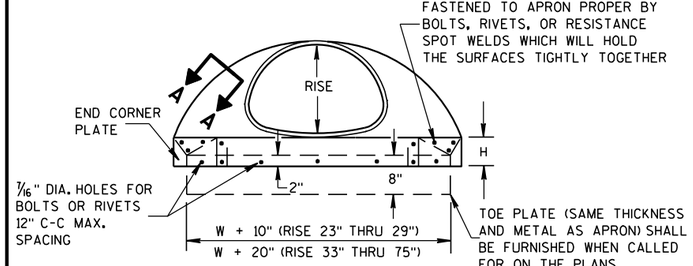


PLAN VIEW

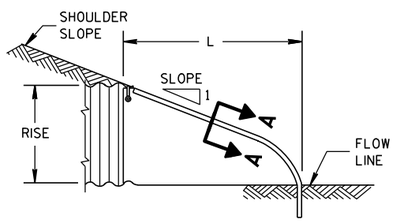
CONCRETE ENDWALLS



PLAN VIEW

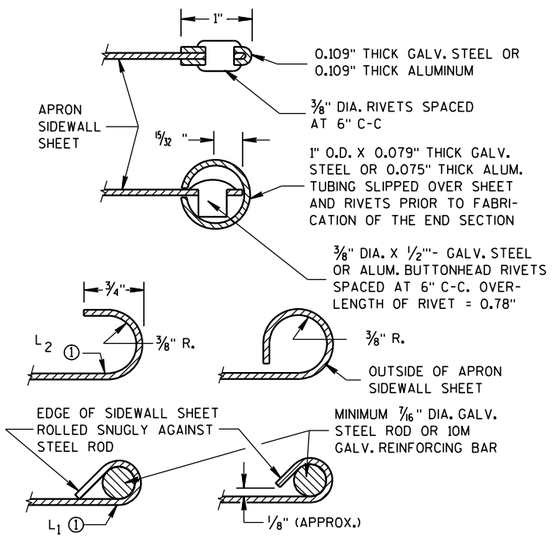


END VIEW



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

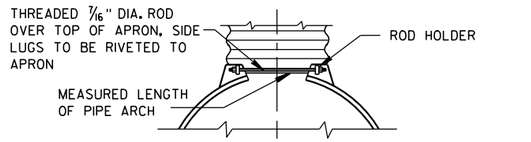
REINFORCED CONCRETE PIPE ARCH

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	15 13/16	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

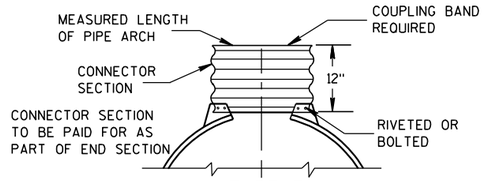
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



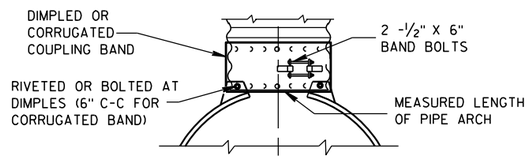
TYPE 2

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

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

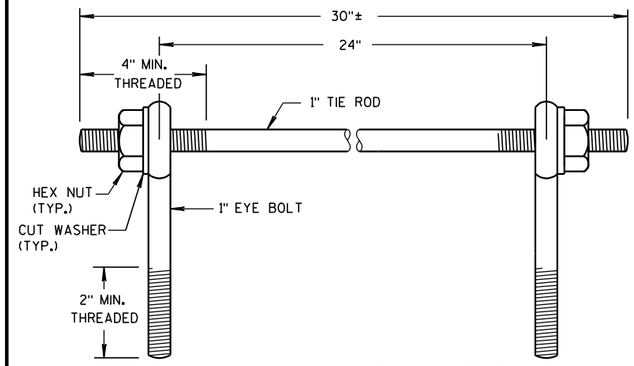
FHWA

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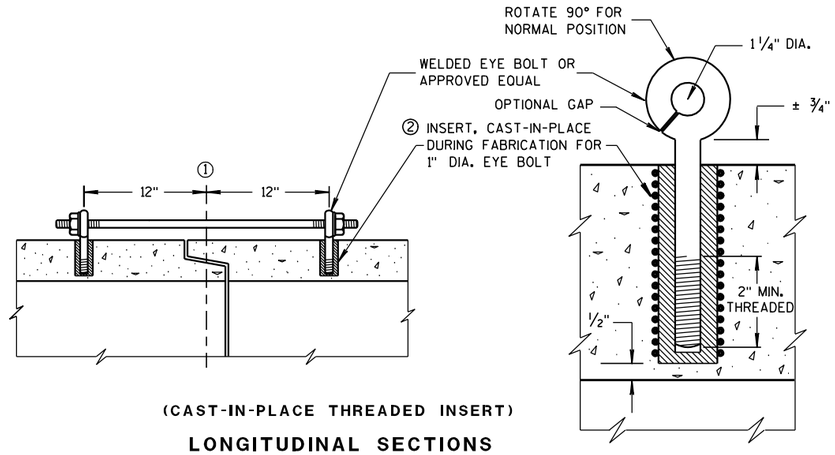
S.D.D. 8 F 2-1

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S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 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 APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND 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 THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

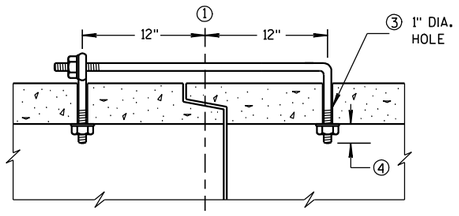
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

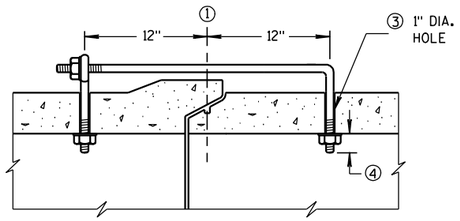
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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.



(TONGUE & GROOVE PIPE)

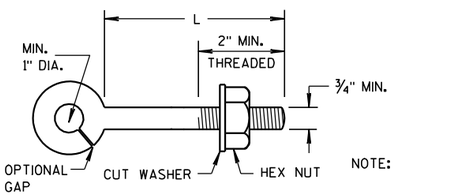


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

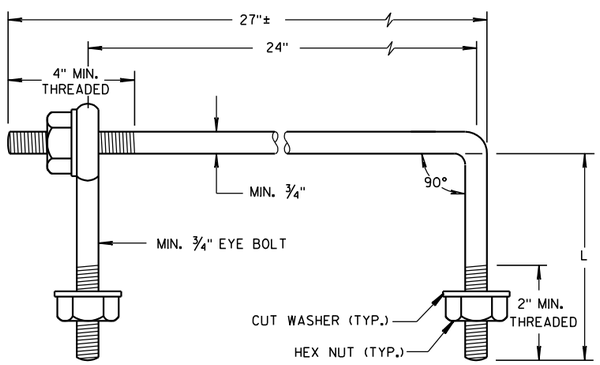
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

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

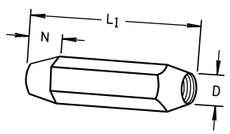
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

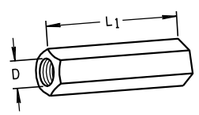
ADJUSTABLE TIE ROD TABLE

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 1/16

DIMENSIONS SHOWN ARE IN INCHES



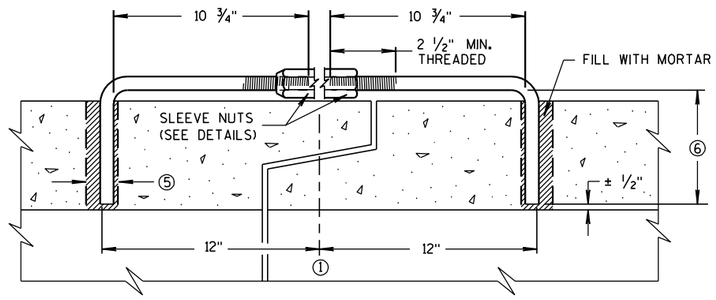
TAPERED



PLAIN

RIGHT AND LEFT THREADS

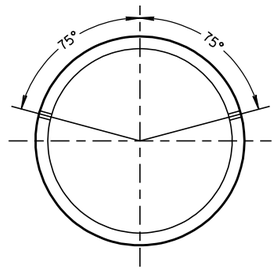
SLEEVE NUTS



LONGITUDINAL SECTION

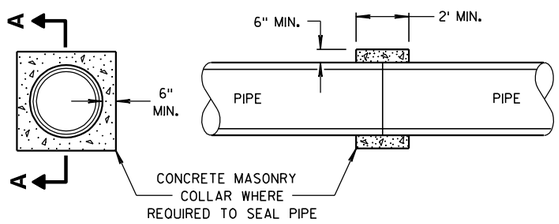
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

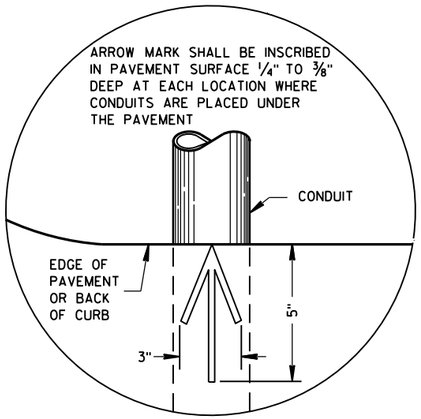
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

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S.D.D. 8 F 4-7

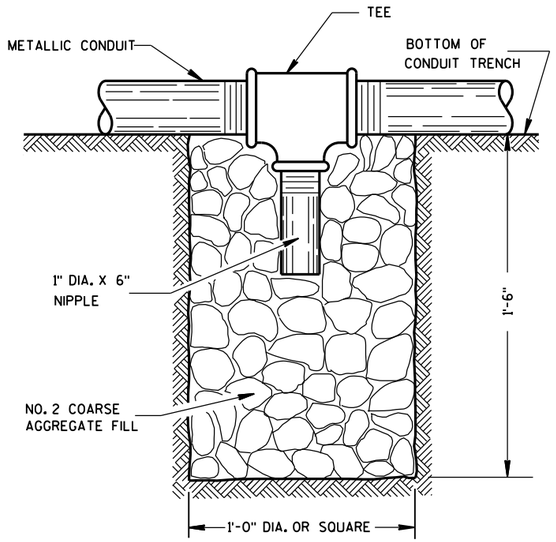
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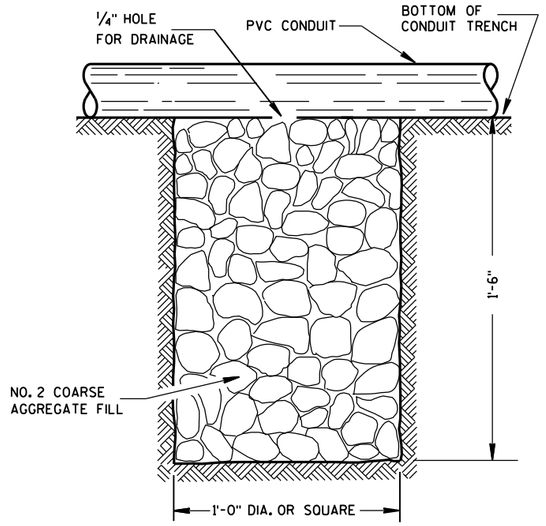
PLAN VIEW

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.

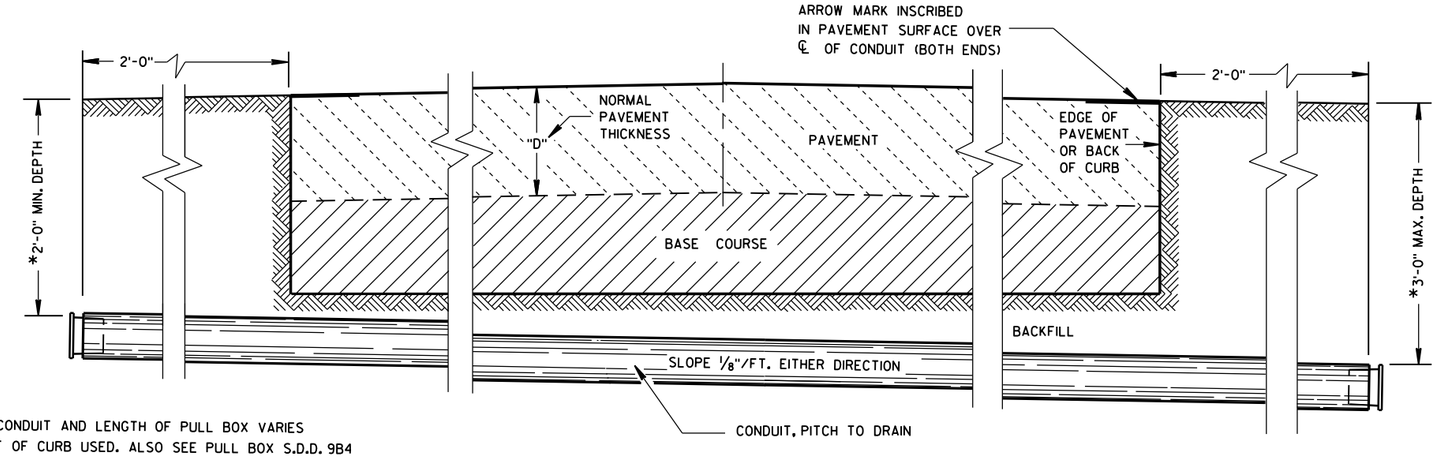
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

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.).

TRACER 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
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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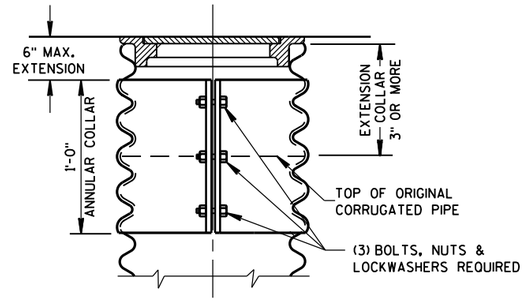
S.D.D. 9 B 2-9

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

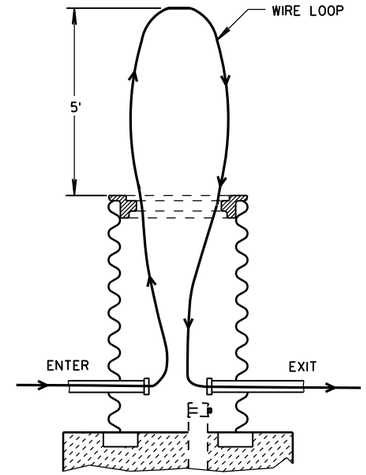
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	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.

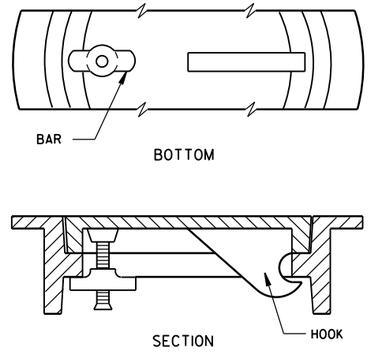
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

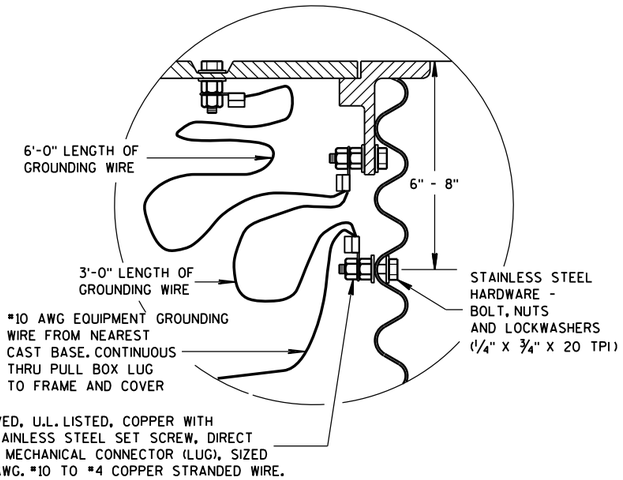


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

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.

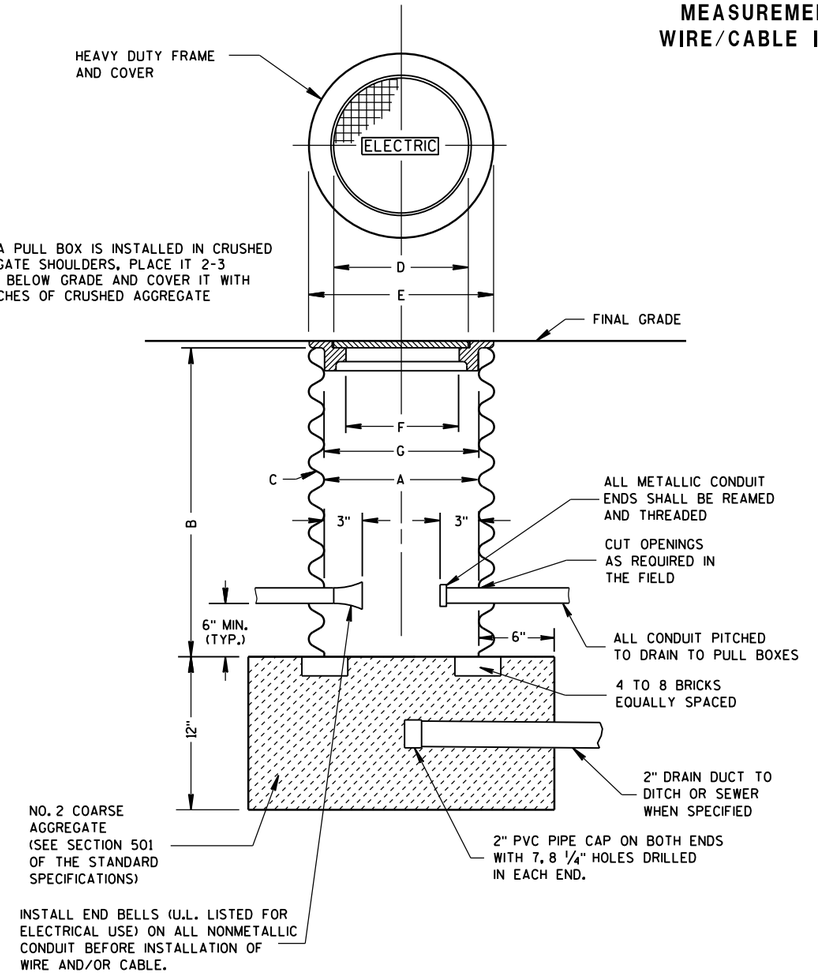
ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

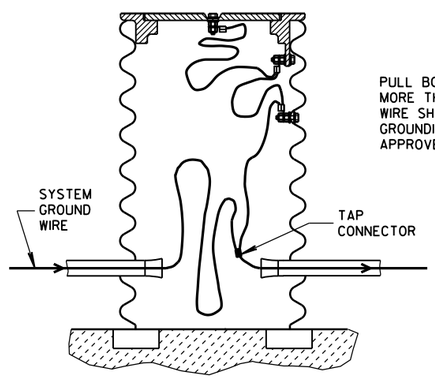
GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

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.



PULL BOX



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

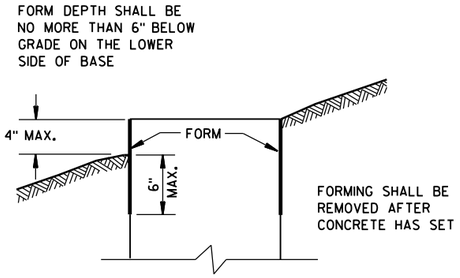
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL 295
FHWA

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S.D.D. 9 B 4-11

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S.D.D. 9 B 4-11



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
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 1, TYPE 2, TYPE 5, AND TYPE 6 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 OF THE STANDARD SPECIFICATIONS.

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.

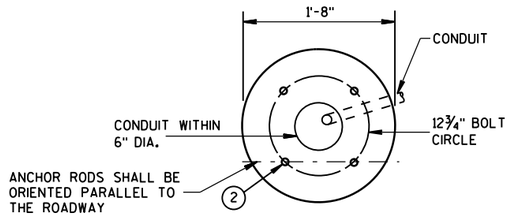
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

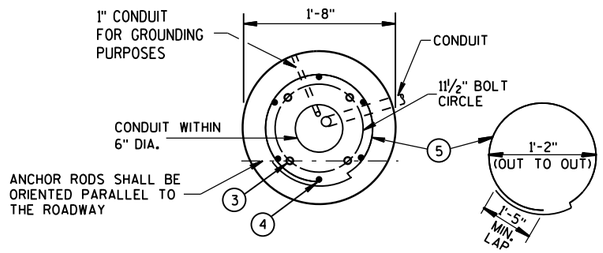
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

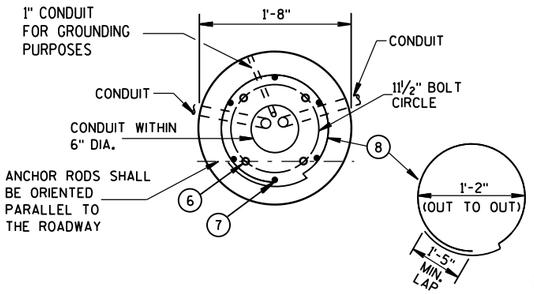
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

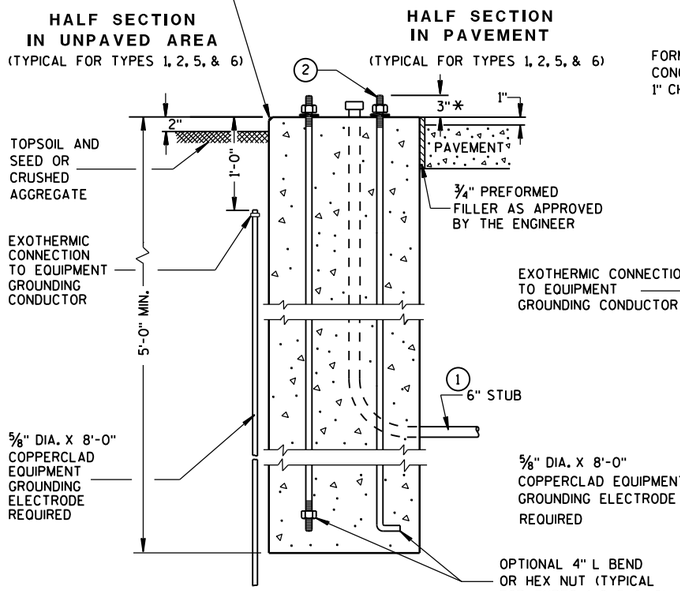
(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.



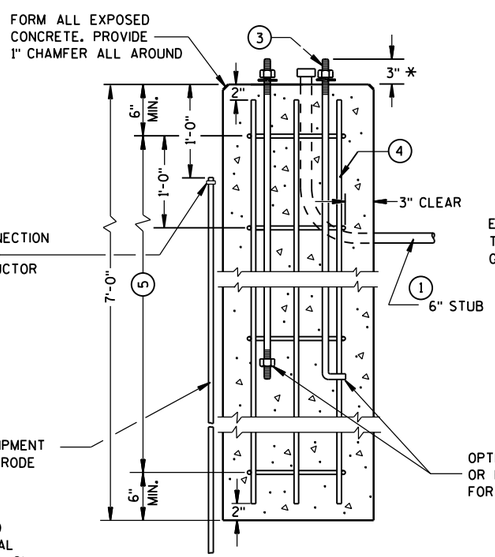




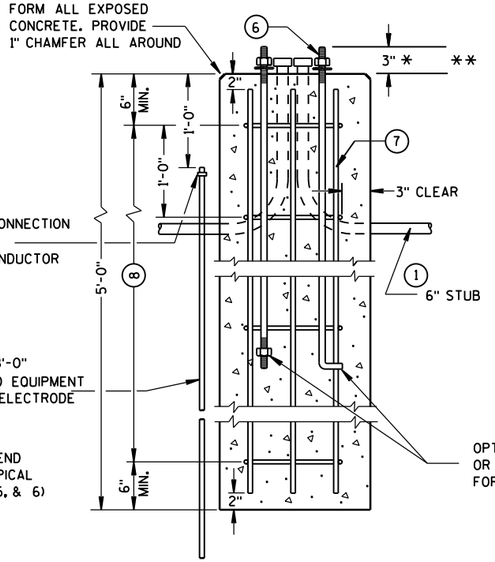
HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5, & 6)



HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5, & 6)



TYPE 2



TYPE 5 & 6

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, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 C 2-7

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.

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, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

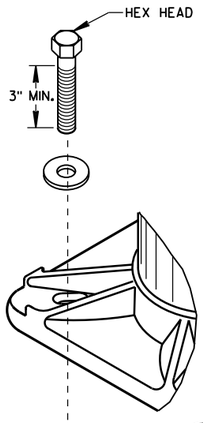
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

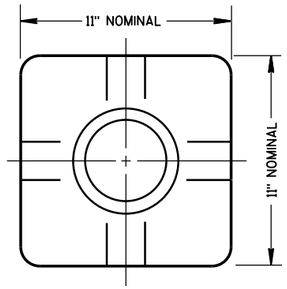
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

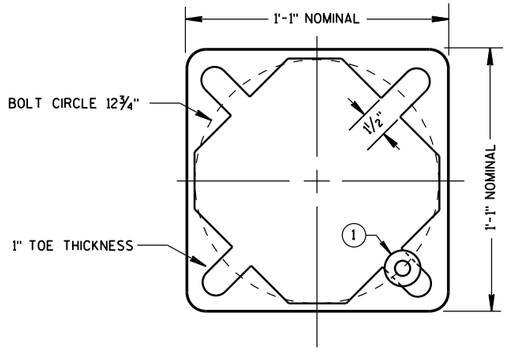
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

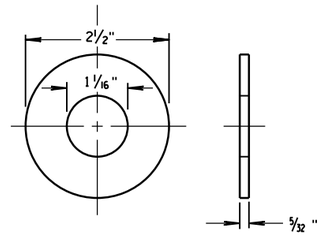




TOP VIEW
(PEDESTAL BASE)

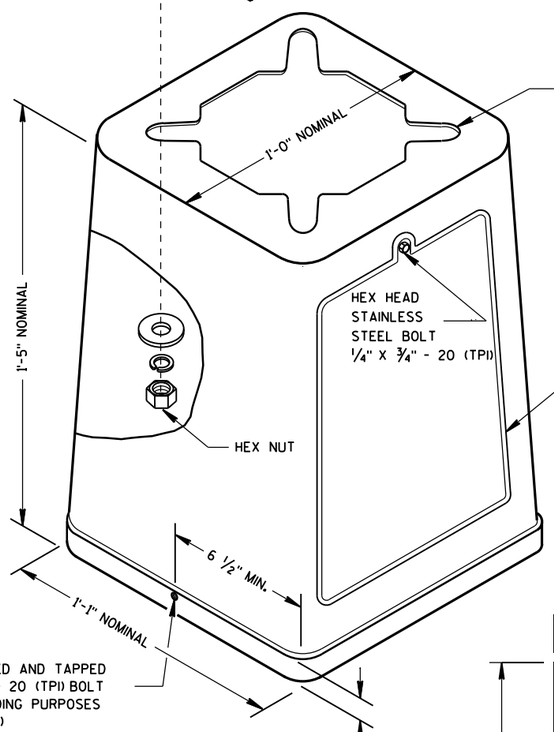


BOTTOM VIEW
(PEDESTAL BASE)

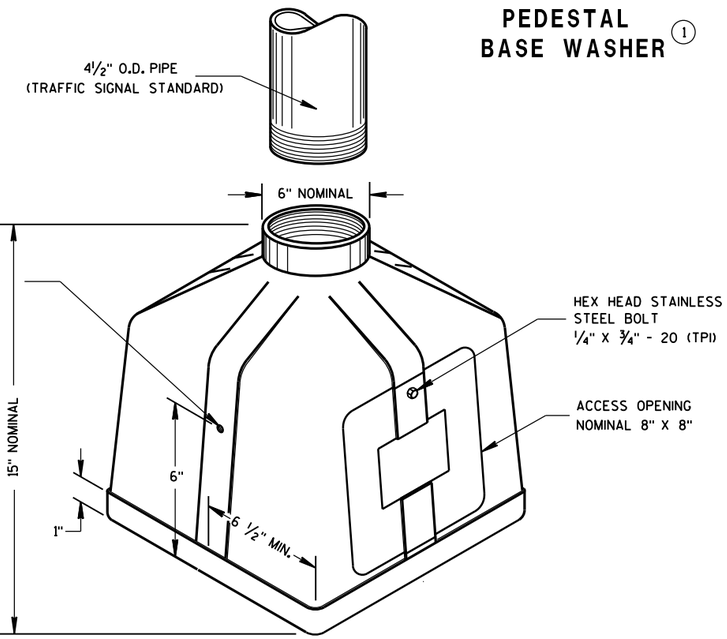


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

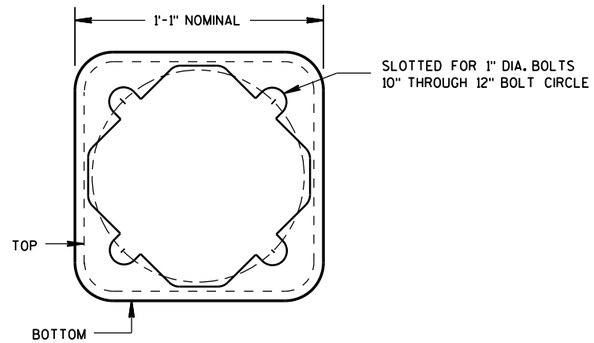


ISOMETRIC VIEW

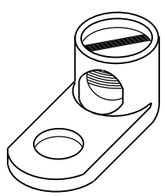


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

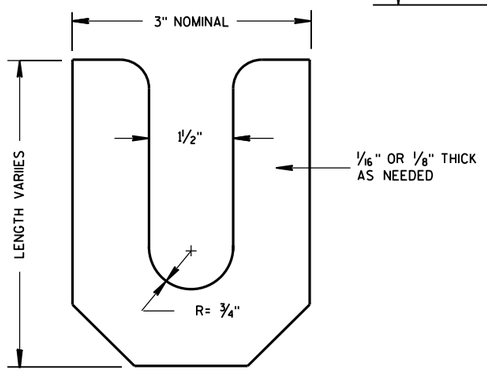


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

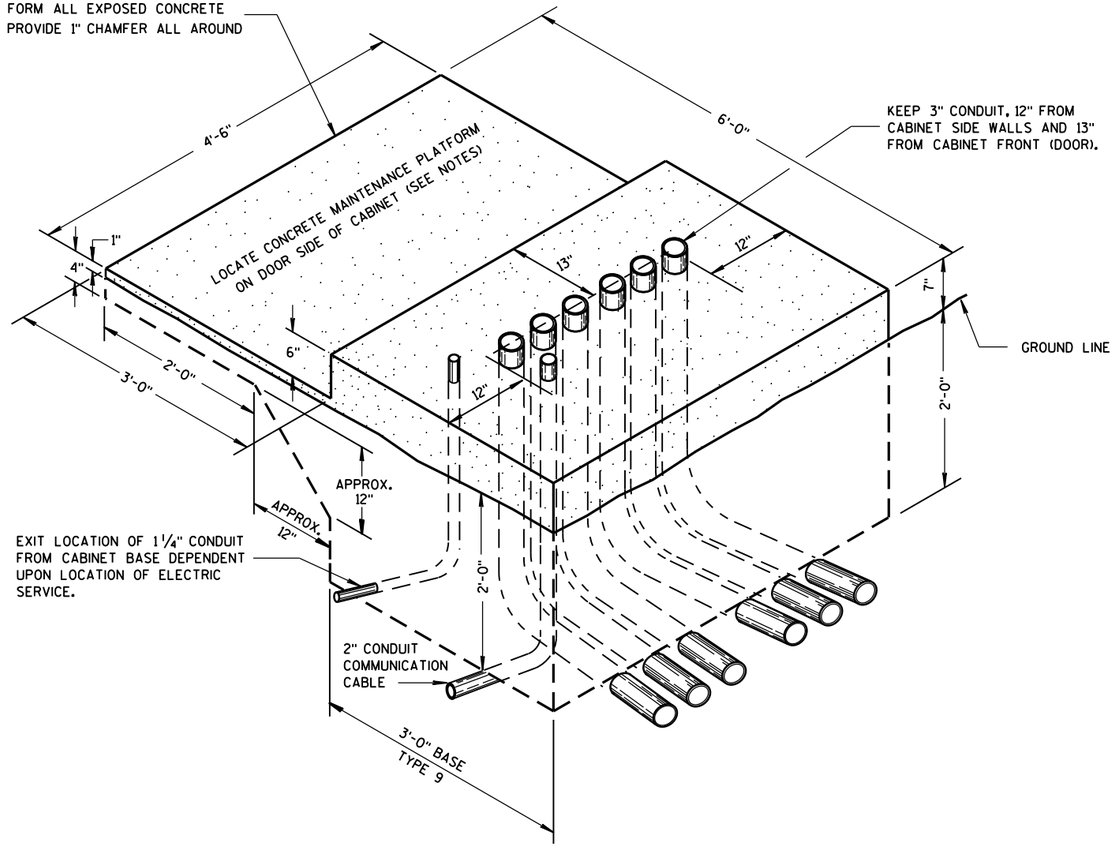
TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
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FHWA

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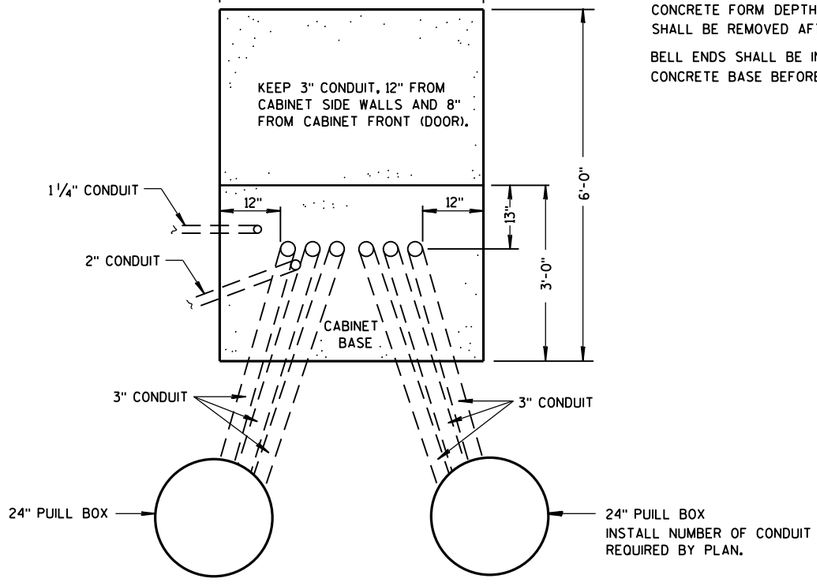
S.D.D. 9 C 3-4



ISOMETRIC VIEW

TYPE 9, SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

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 STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. 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 SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE 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.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

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.

CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

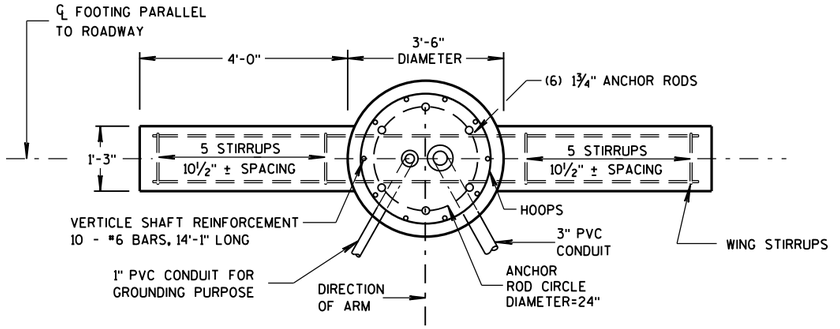
CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

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

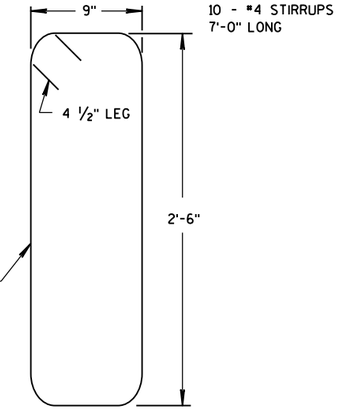
CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

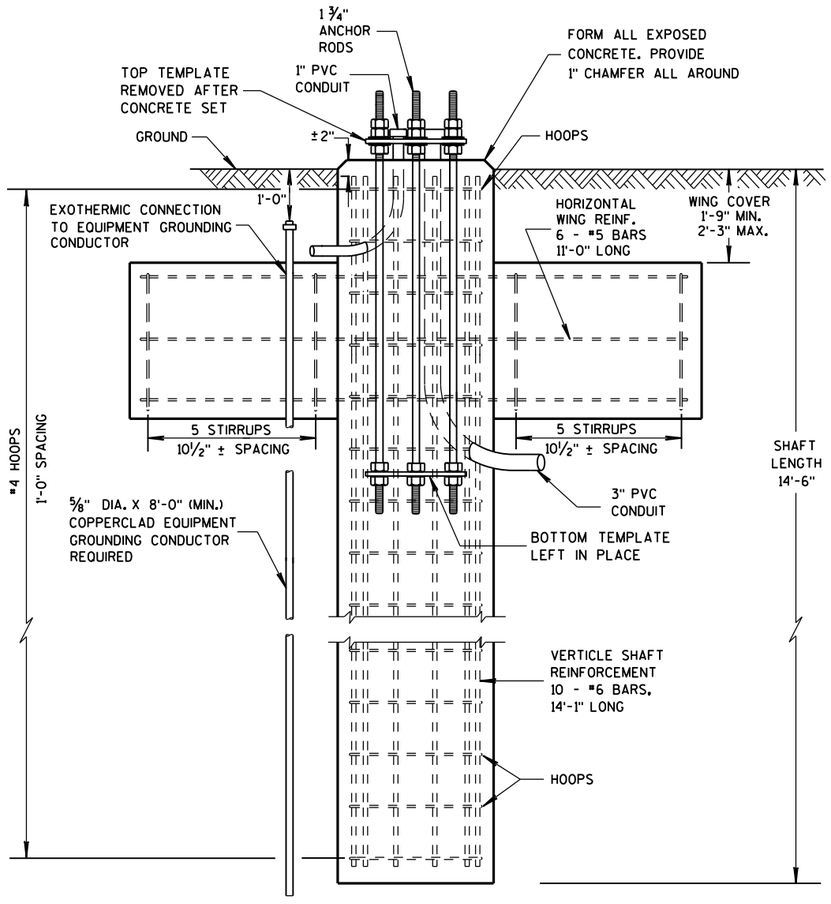
APPROVED
Sept. 2014 — DATE
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FHWA



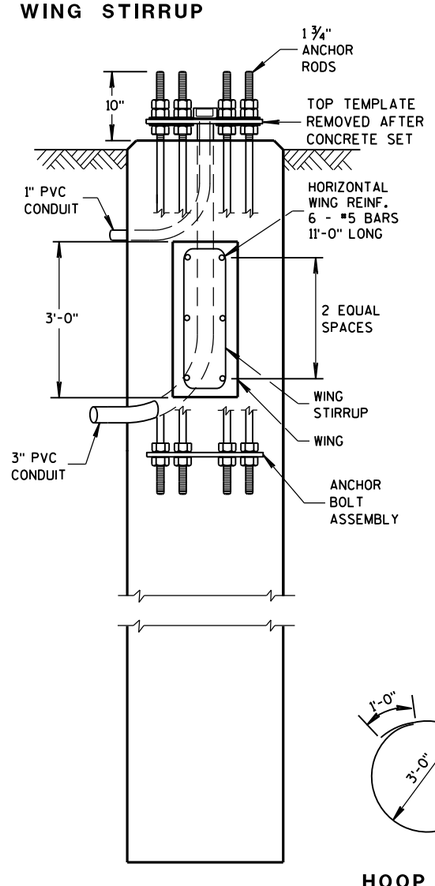
PLAN VIEW



WING STIRRUP

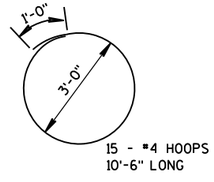


ELEVATION VIEW



SIDE VIEW

DOES NOT SHOW HOOPS OR VERTICAL SHAFT REINFORCEMENT



15 - #4 HOOPS 10'-6" LONG

HOOP DETAIL

GENERAL NOTES

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

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD PROJECTION ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF THE UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

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

BASES (SHAFT), BELOW THE WING, SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUNG THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZE AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASE SHALL BE 4½" INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF THE 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.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTOR FITTINGS, UL LISTED FOR ELECTRICAL USE, SHALL BE USED.

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

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.

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

THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVEL 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, (GREATER THAN 36-INCHES IF INSTALLED IN BREAKER-RUN), EXCEPT WITH THE WRITTEN APPROVAL OF THE ENGINEER.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 641.2.2.3 OF THE STANDARD SPECIFICATIONS	fy=55,000 p.s.i.
TEMPLATES, ASTM A709 GRADE 36	fy=36,000 p.s.i.

(FOR TYPE 12 & 13 POLES)

CONCRETE = 6.3 C.Y.
H.S. REINFORCEMENT = 433 LBS.

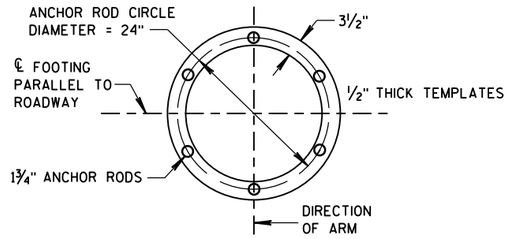
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.
SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.

CONCRETE BASE TYPE 13

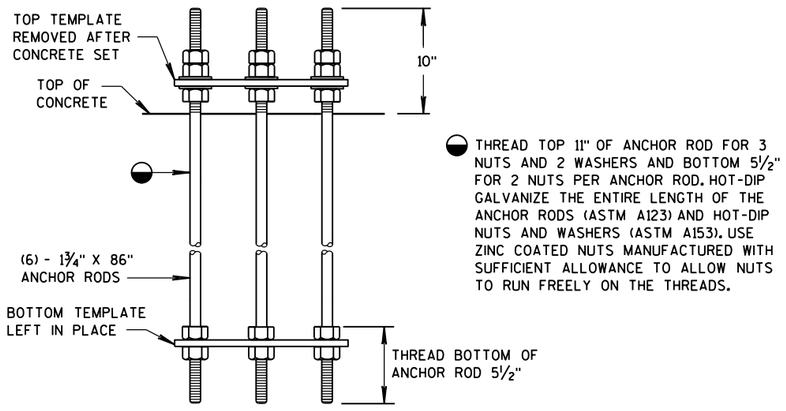
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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S.D.D. 9 C 12-8a

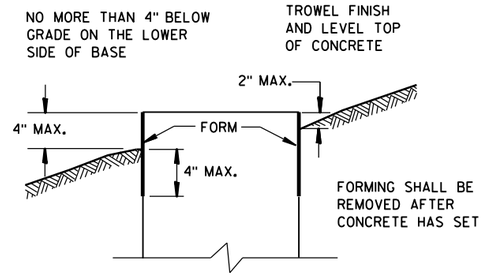


TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 13 ANCHOR ASSEMBLY



FORMING DETAIL

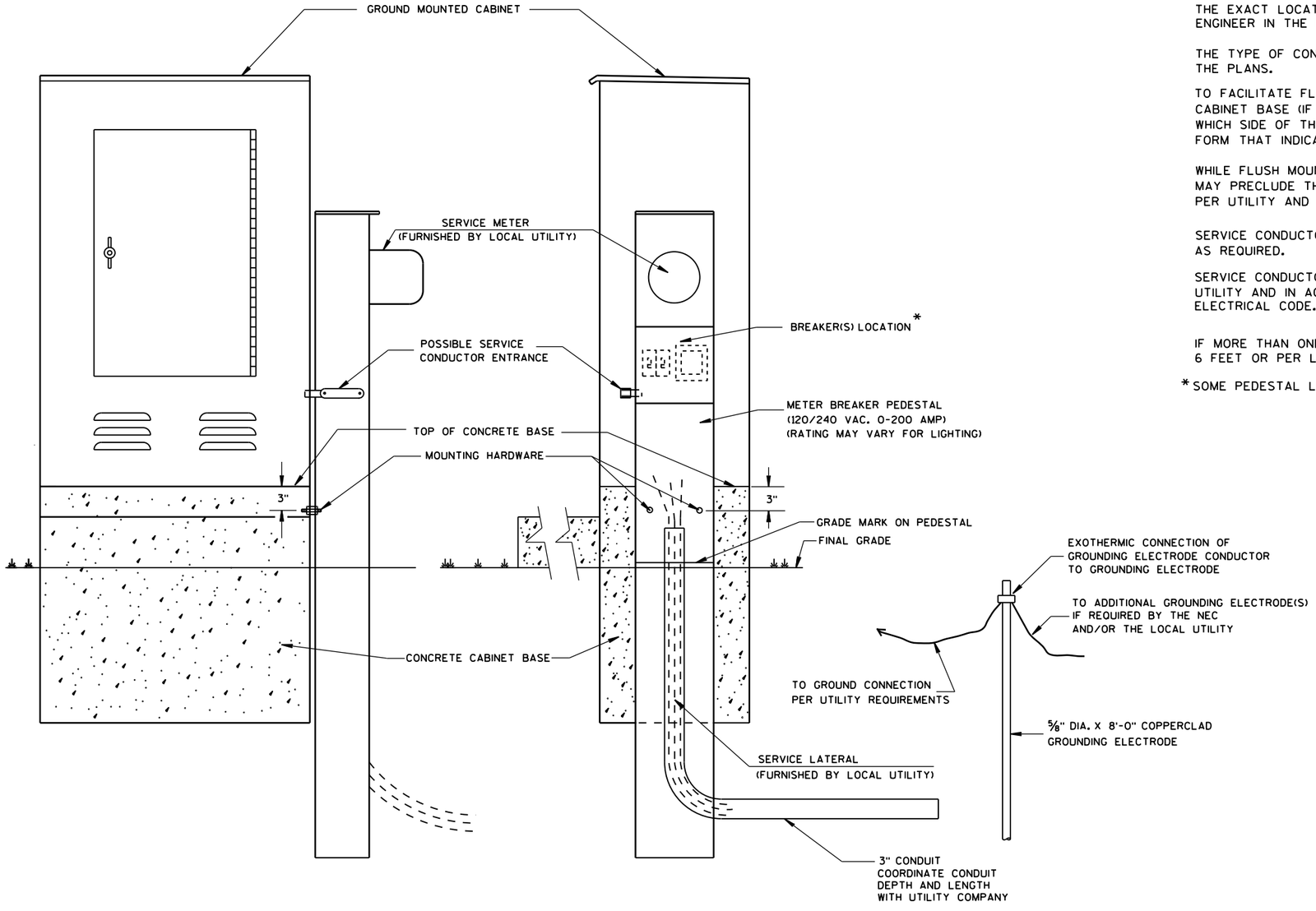
CONCRETE BASE TYPE 13

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2016 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 C 12-8b



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.

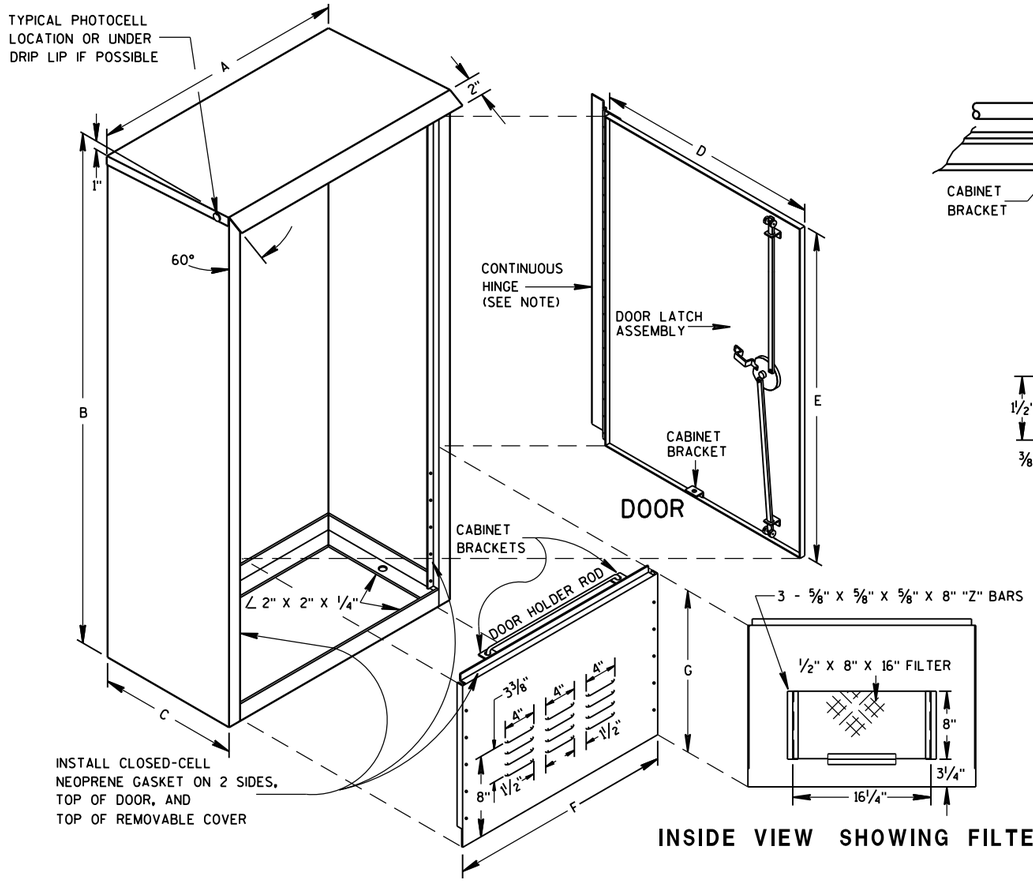
* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

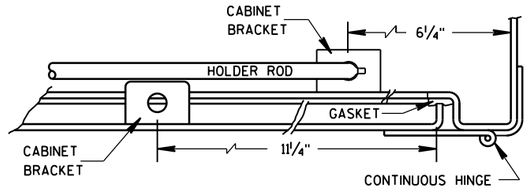
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Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6
S.D.D. 9 D 1-5

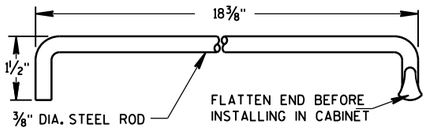


REMOVABLE COVER

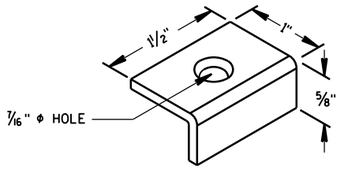
INSIDE VIEW SHOWING FILTER



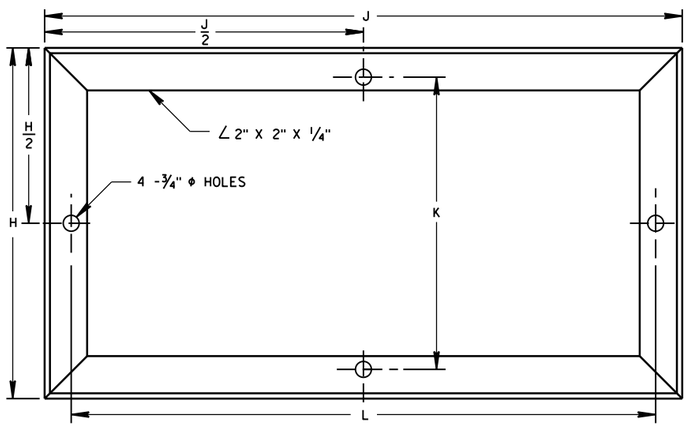
HINGE & DOOR HOLDER



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.

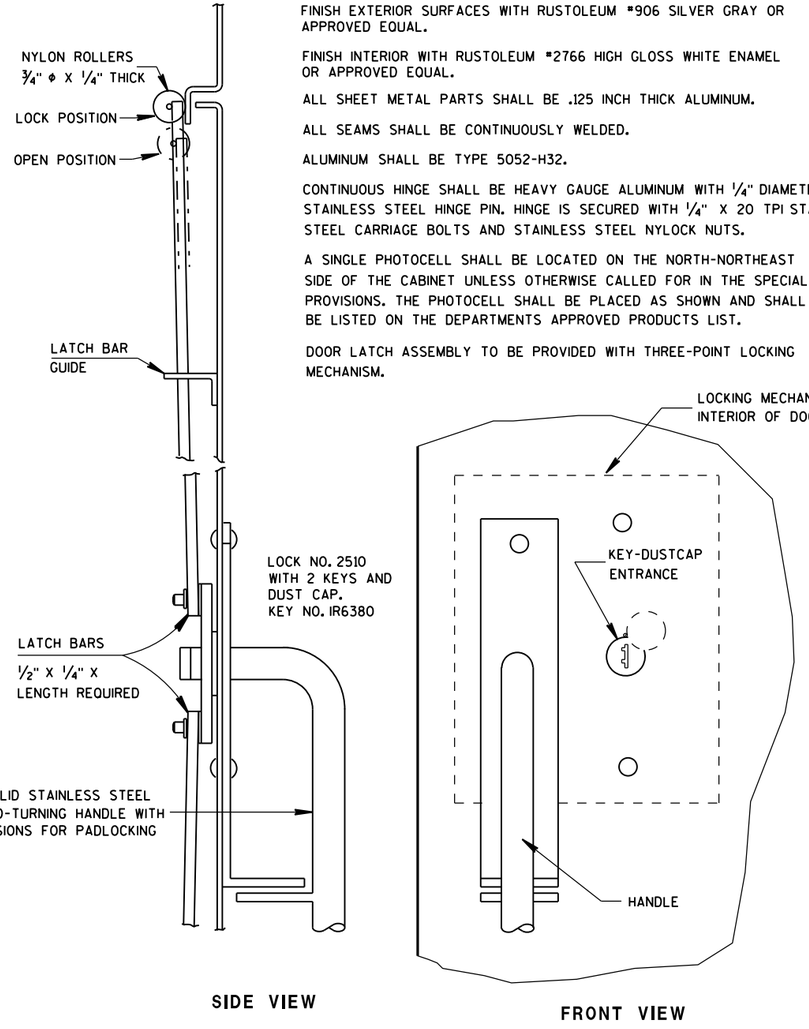
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

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 LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST.

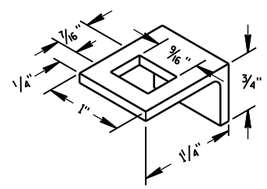
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



SIDE VIEW

FRONT VIEW

LATCH ASSEMBLY



LATCH BAR GUIDE

SIGNAL CONTROL CABINET

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL 302
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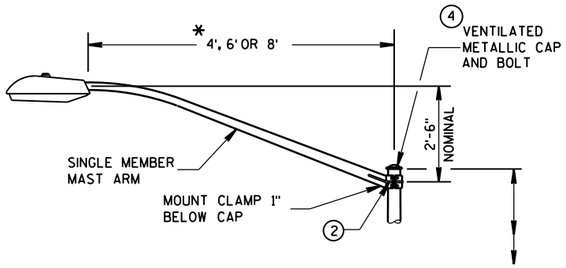
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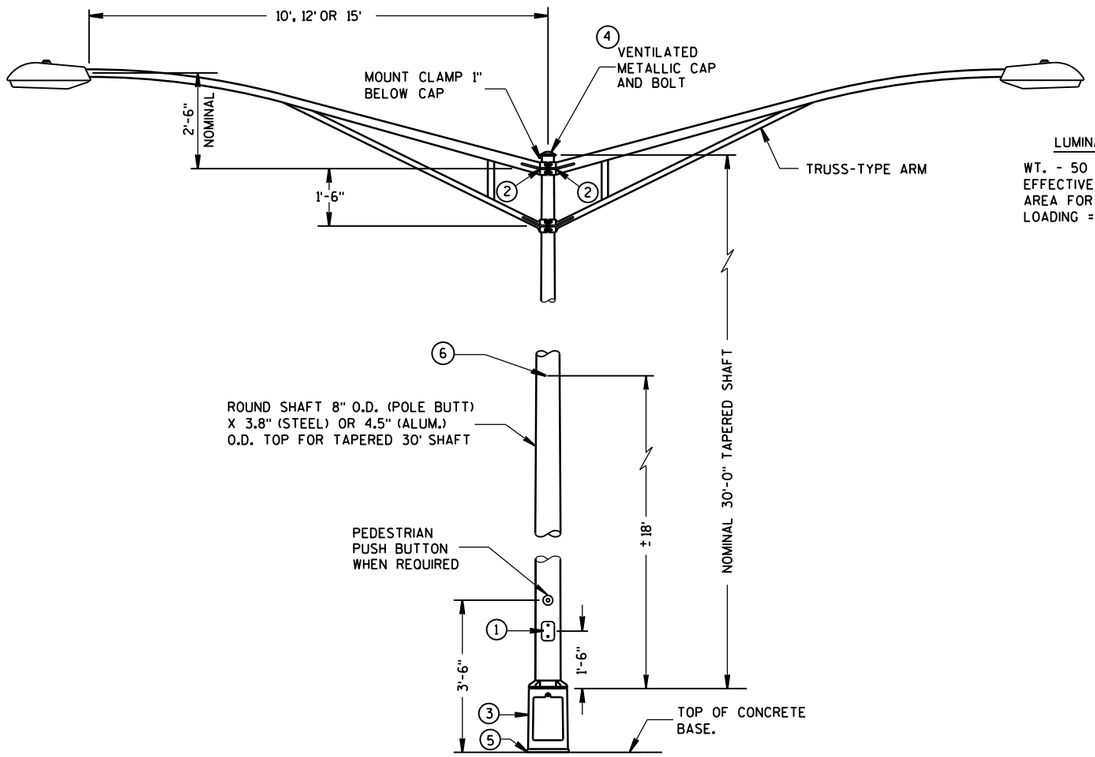
S.D.D. 9 D 2-3

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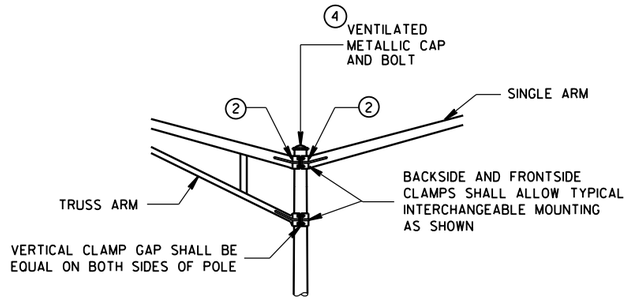
S.D.D. 9 D 2-3

*RISE FOR 4' ARM SHALL BE 2'-0".





TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY



INTERCHANGEABLE MOUNTING DETAIL

LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED
AREA FOR WIND
LOADING = 1.5 SQ. FT.

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.

(6) INTERNAL DUMBBELL-TYPE VIBRATION DAMPER.

6

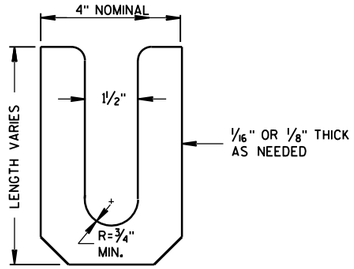
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POLE MONTINGS FOR
LIGHTING UNITS, TYPE 5
(30 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

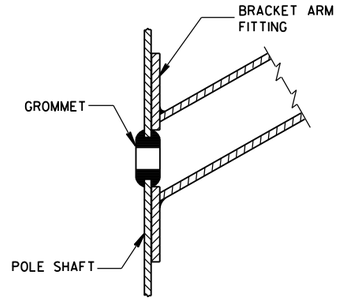
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S.D.D. 9 E 1-14d

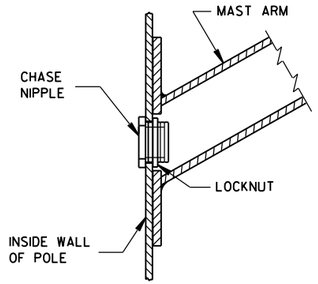


LEVELING SHIM (13)

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.

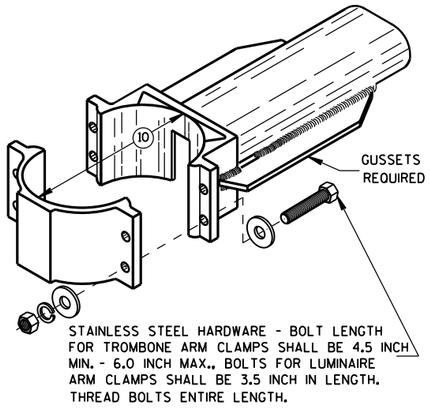
(10) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

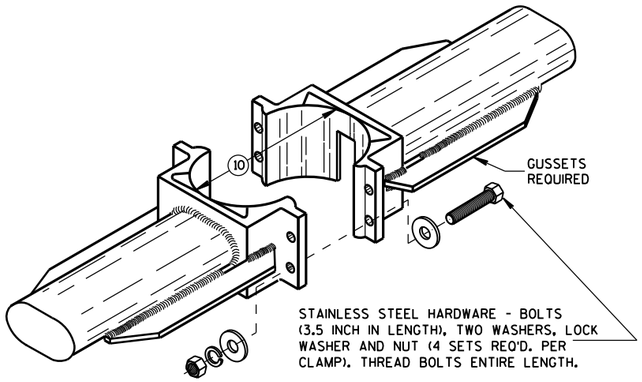
(12) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(13) 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.

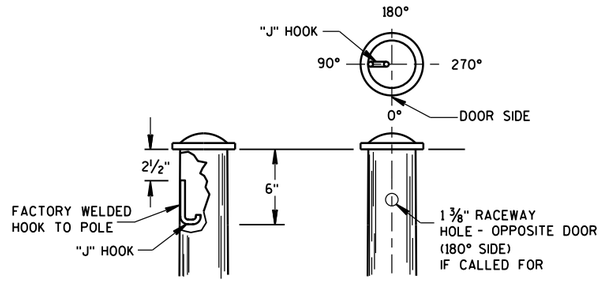
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



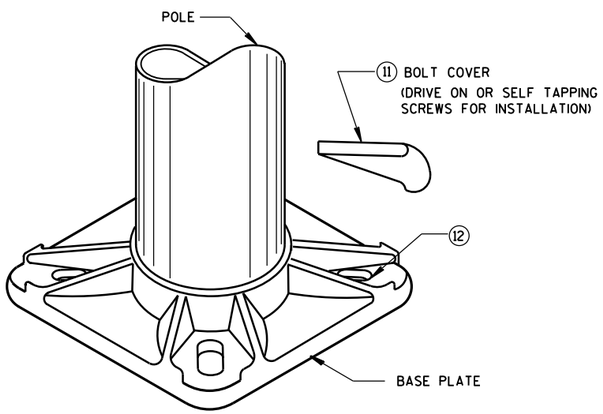
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



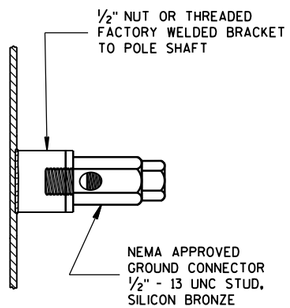
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

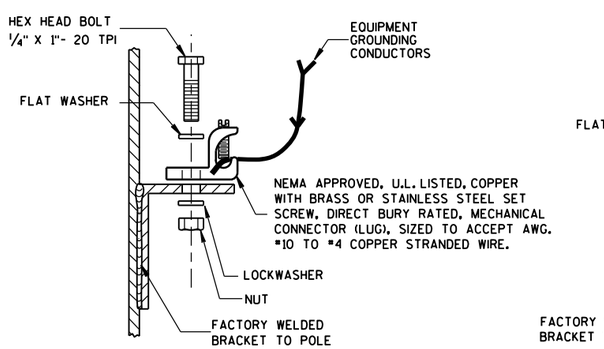


TYPICAL "J" HOOK LOCATION



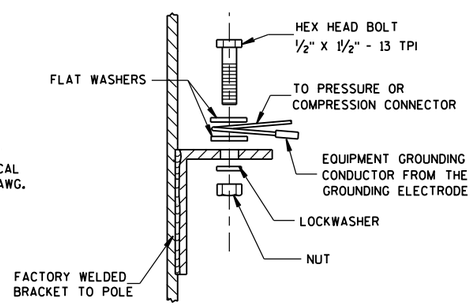
BASE PLATE





TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



HARDWARE DETAILS FOR POLE MOUNTINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

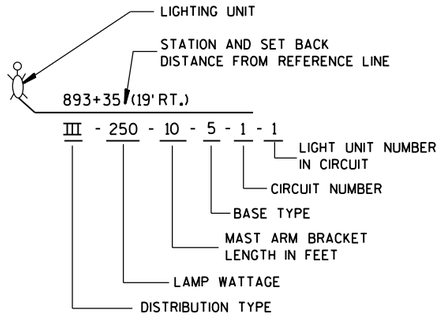
APPROVED
Feb. 2015
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

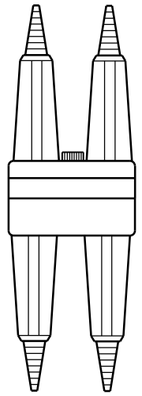
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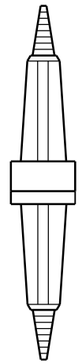
S.D.D. 9 E 1-14g



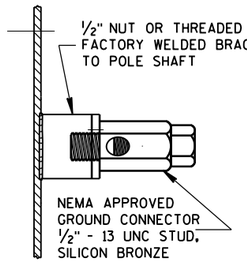
LIGHTING UNIT CODE
(TYPICAL)

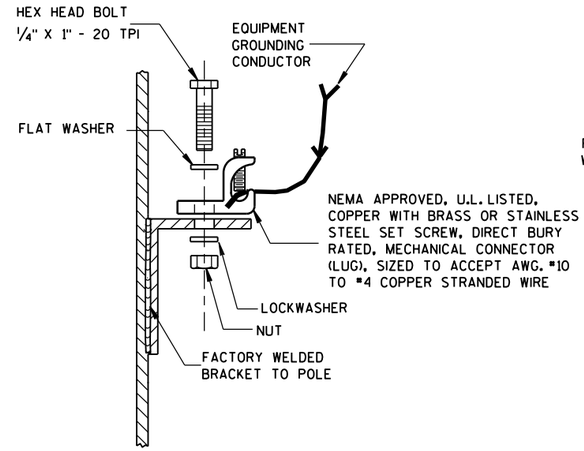


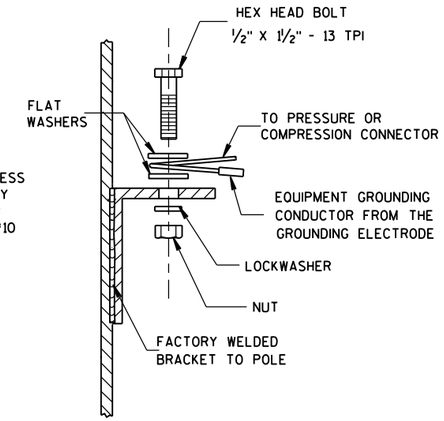
DETAIL "A"
BREAKAWY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



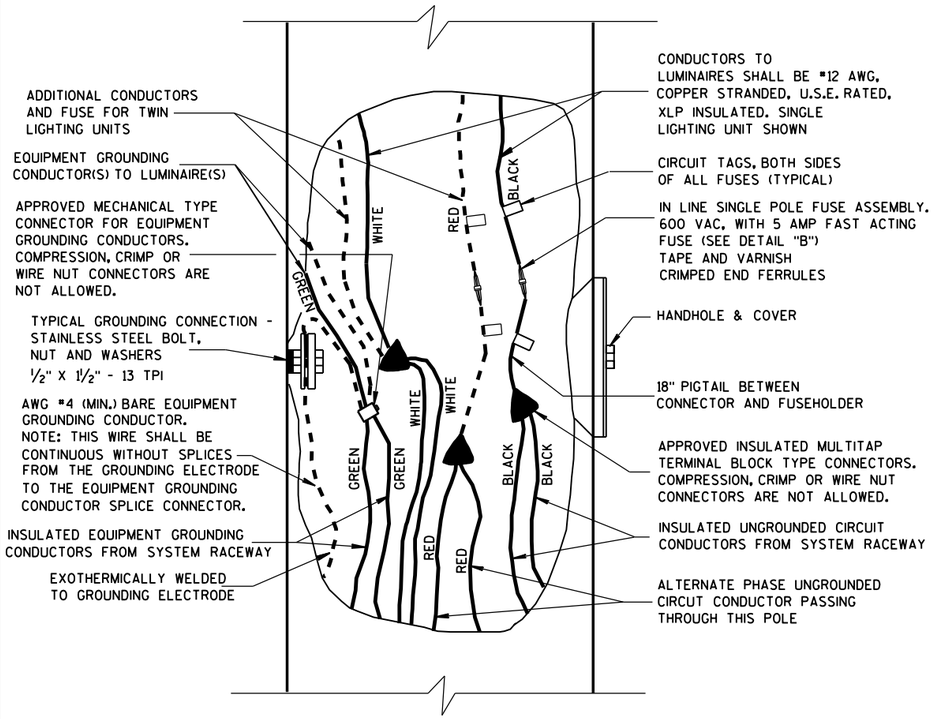
DETAIL "B"
BREAKAWY SINGLE POLE WITH WATERPROOF INSULATING BOOT



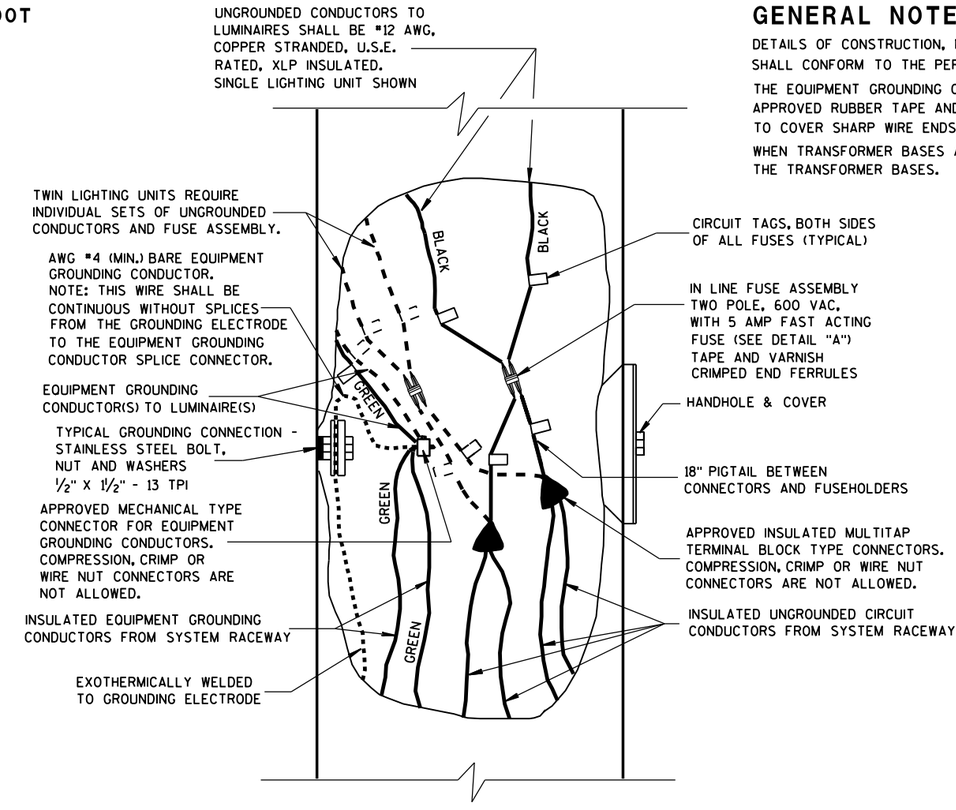




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



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.

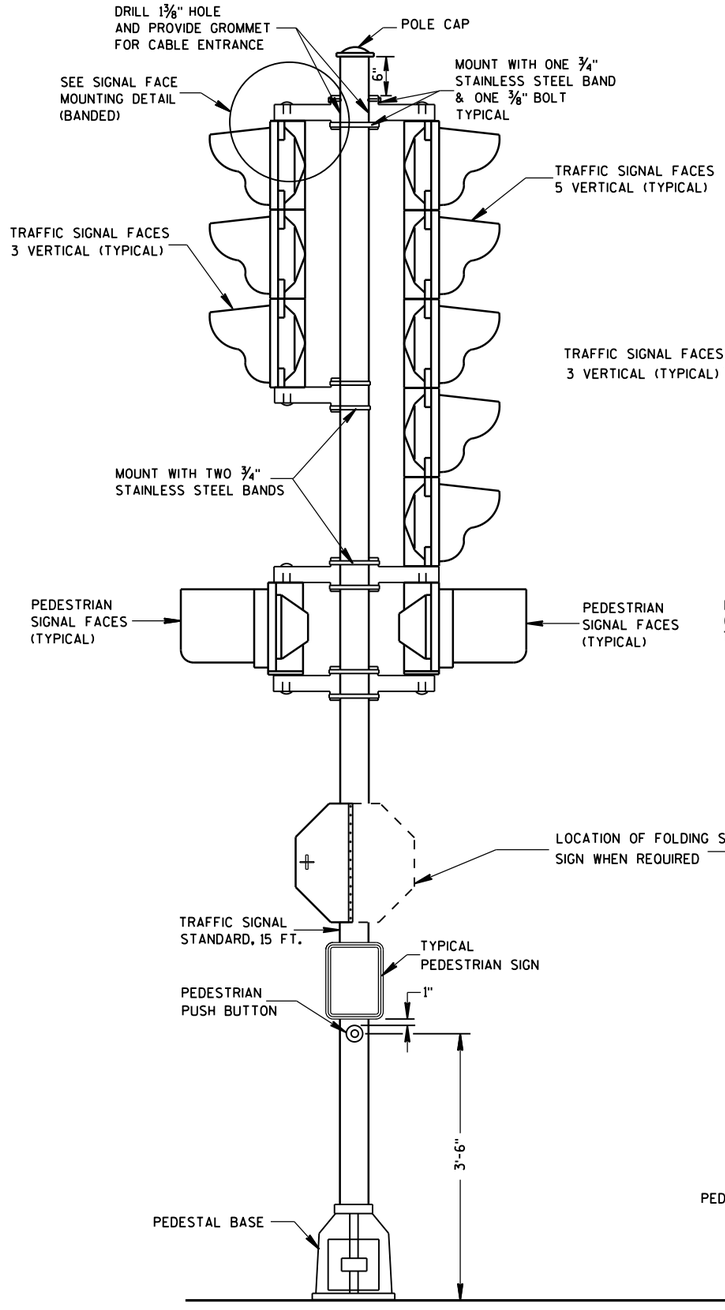
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

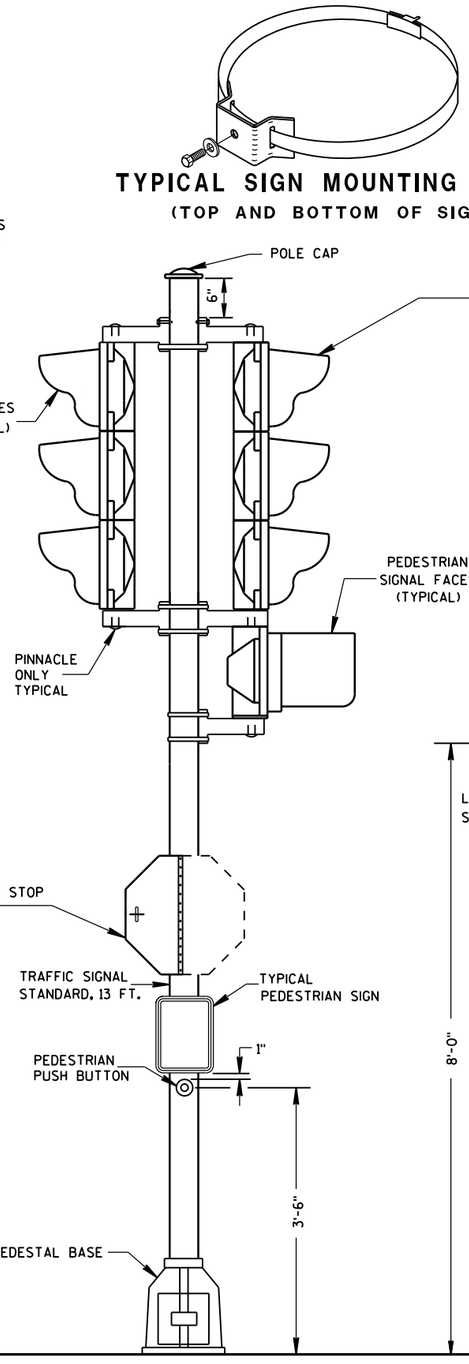
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 E 3-5

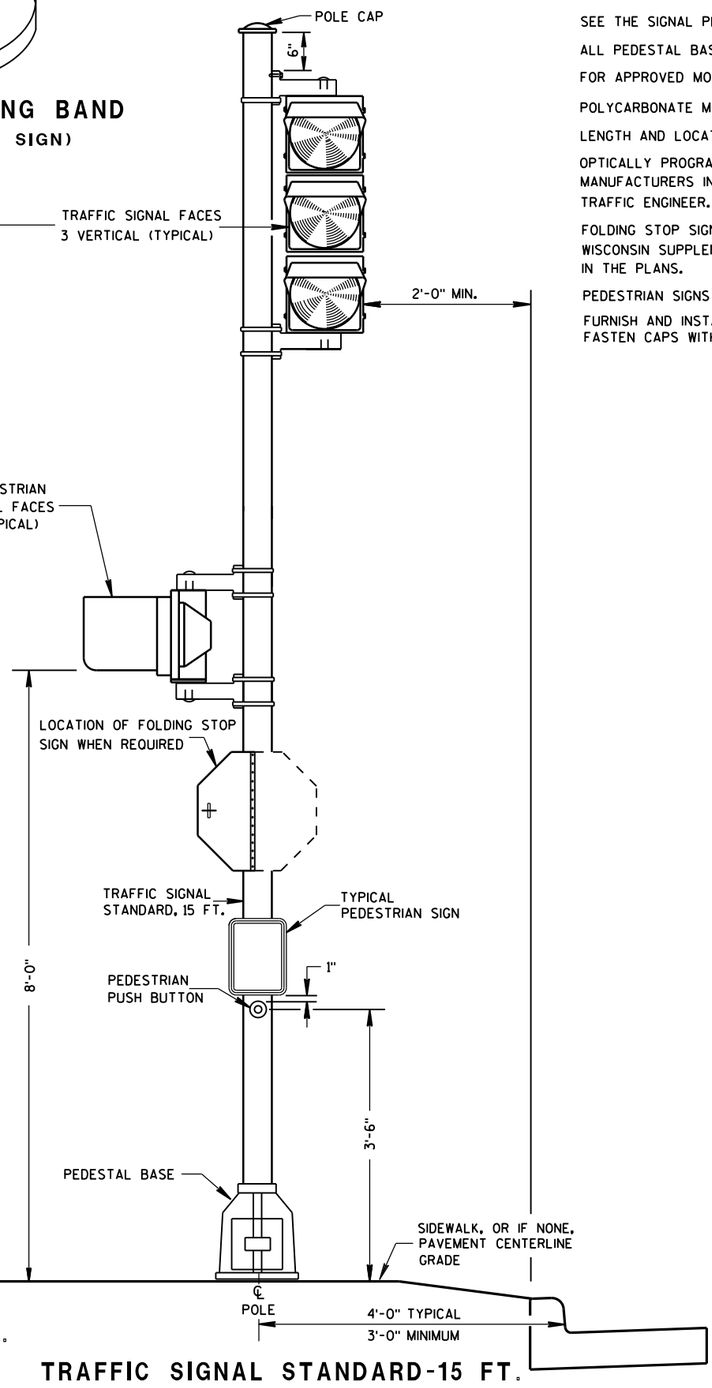


TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

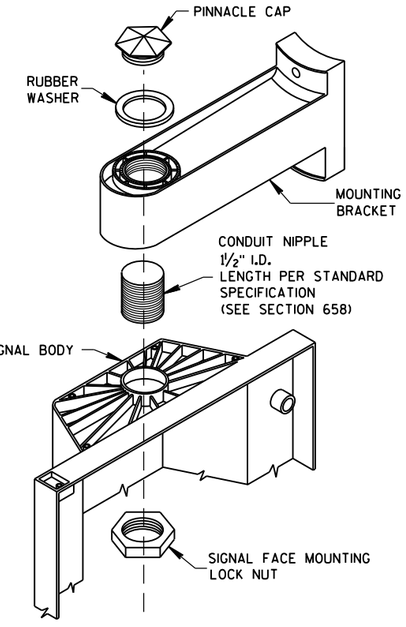
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SIGNAL FACE MOUNTING DETAIL
(BANDED)

TRAFFIC SIGNAL STANDARD
POLY BRACKET MOUNTINGS
(TYPICAL) 13 FT. OR 15 FT.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

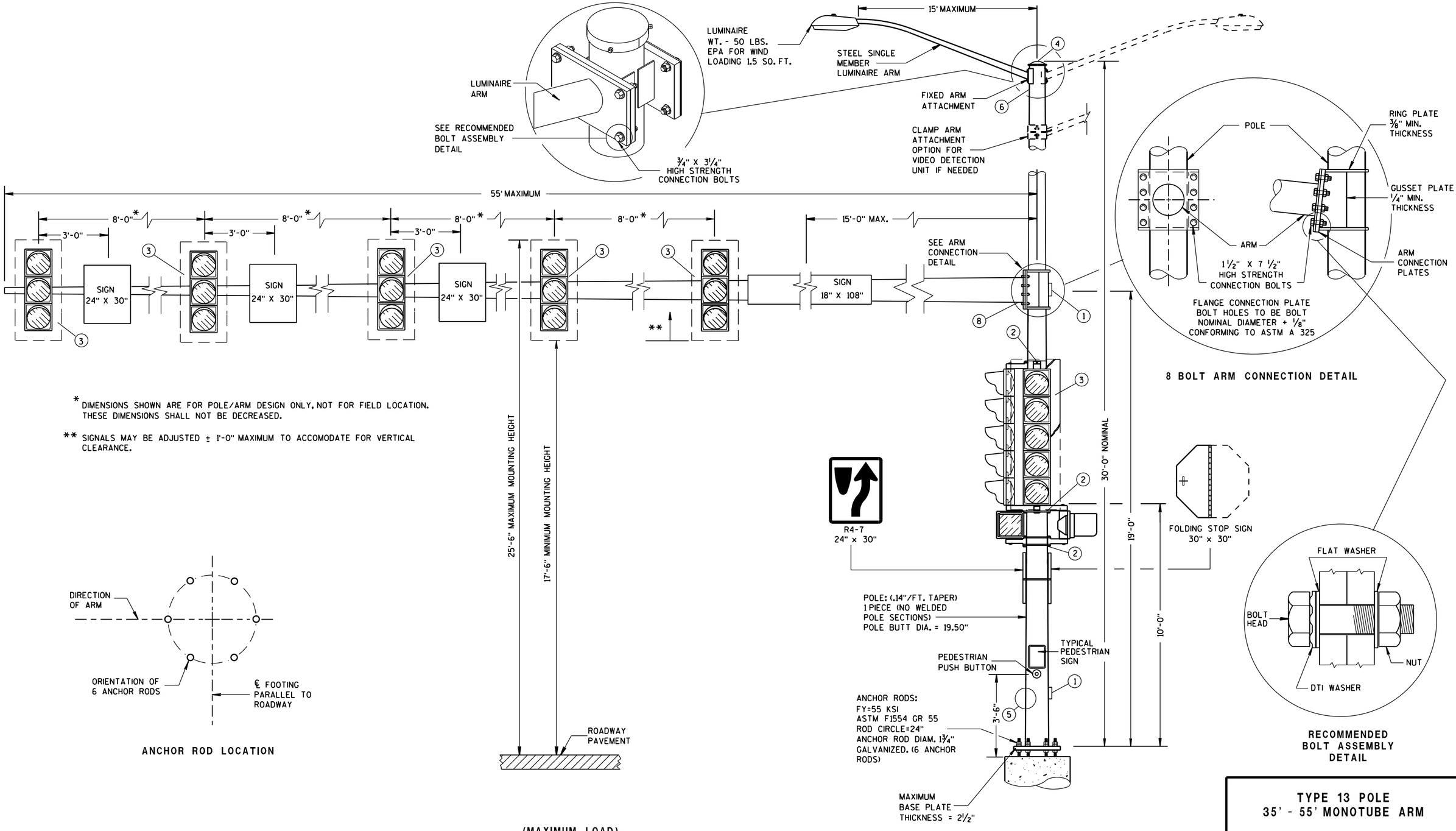
APPROVED
2/28/2013
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

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S.D.D. 9 E 6-5



* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

** SIGNALS MAY BE ADJUSTED ± 1'-0" MAXIMUM TO ACCOMODATE FOR VERTICAL CLEARANCE.

8 BOLT ARM CONNECTION DETAIL

RECOMMENDED BOLT ASSEMBLY DETAIL

ANCHOR ROD LOCATION

(MAXIMUM LOAD)

TYPE 13 POLE 35'- 55' MONOTUBE ARM

TYPE 13 POLE
35' - 55' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2016 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6
S.D.D. 9 E 8-8d

GENERAL NOTES

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

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15-FOOT TO 30-FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35-FOOT TO 55-FOOT.

MONOTUBE POLE AND ARM SHALL BE GALVANIZED STEEL.

RING-STIFFENED BUILT-UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE (1) PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3 % ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO 2013 6TH EDITION AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR TRAFFIC AND LIGHTING STRUCTURES AND AS FOLLOWS:

- CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.
- CATEGORY II FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 12 AND TYPE 13 STRUCTURES.
- 90 MPH (3-SECOND GUST) WIND SPEED AND A 50 YEAR DESIGN LIFE.

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" S.S. BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT.

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR AS DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL. MOUNT ALL LIKE HEADS AT SAME ELEVATION.

SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

(1) DESIGN FOR MAXIMUM ALLOWABLE HANDHOLE WITH COVER ASSEMBLY WITH TWO ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING, (SEE SPECIFICATIONS SEC. 658).

(3) SECURELY MOUNT BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS.

(4) THE TOP OF THE POLE SHAFT AND THE END OF THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.

(5) FACTORY-WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HANDHOLE, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

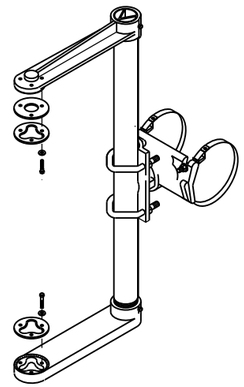
(6) FACTORY-WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

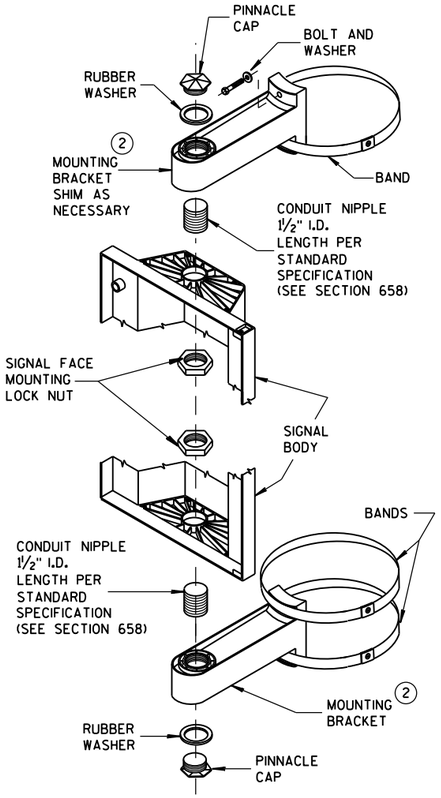
MOUNTING HEIGHT SHALL BE 6'-0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE.

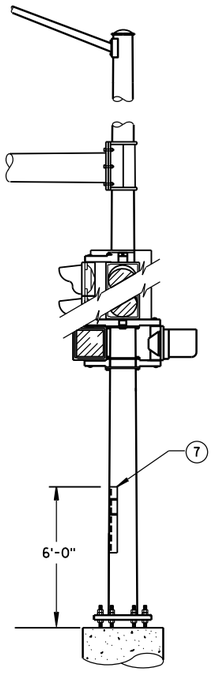


SIGNAL FACE MOUNTING BRACKET
DETAIL FOR MONOTUBE ARM

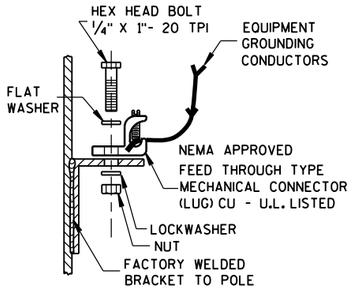
(MOUNT PER MANUFACTURER'S RECOMMENDATION)



SIGNAL FACE
VERTICAL MOUNTING DETAIL

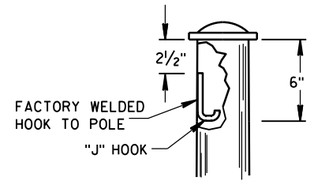


STRUCTURAL IDENTIFICATION
PLAQUE PLACEMENT



TYPICAL GROUNDING CONNECTIONS (5)

NUT, BOLT AND WASHERS SHALL
BE STAINLESS STEEL



"J" HOOK WIRE SUPPORT (6)

GENERAL NOTES AND HARDWARE DETAILS FOR TYPE 9, 10, 12 & 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

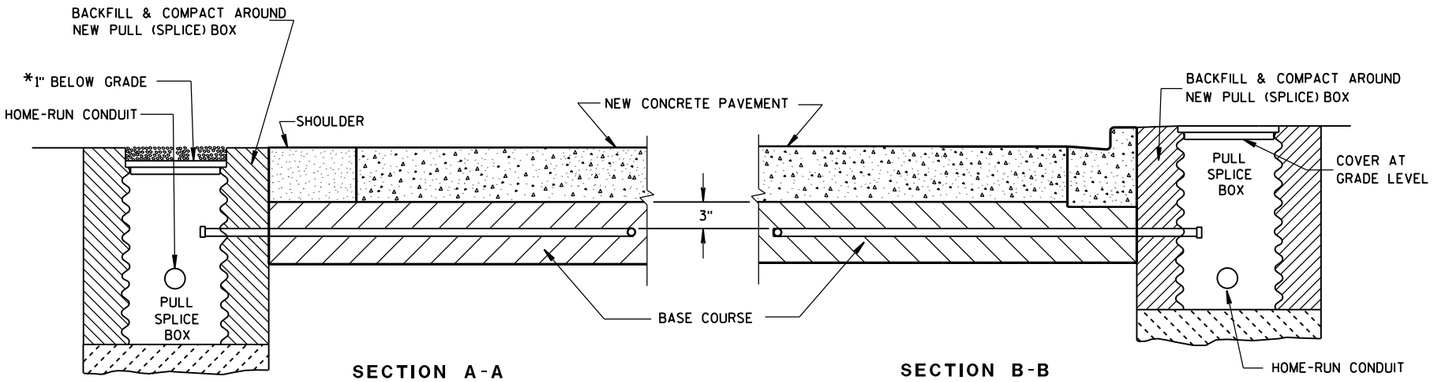
APPROVED
May 2016
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

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S.D.D. 9 E 8-8e



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

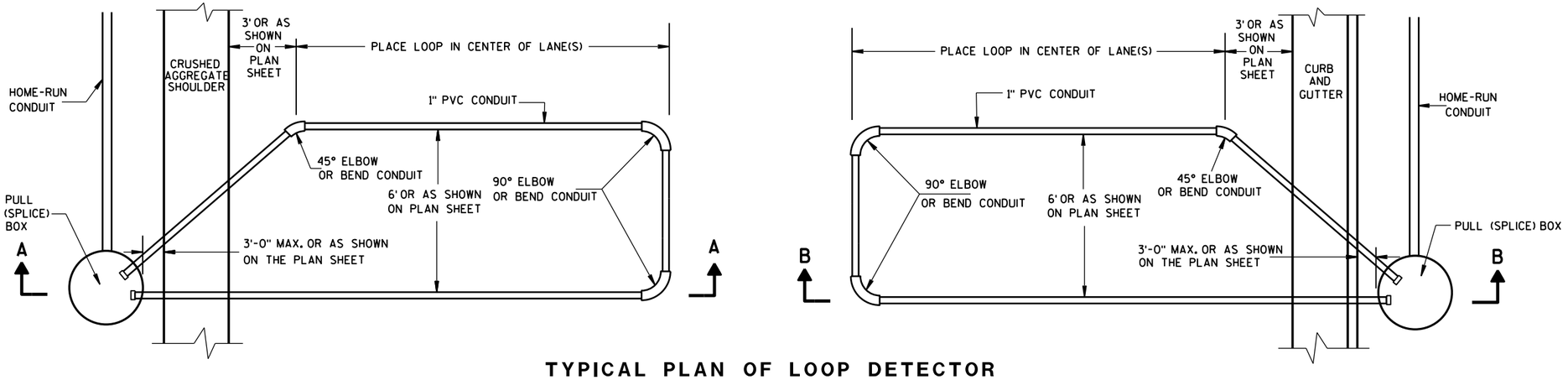
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICE CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE, SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 18" OR 24" PULL (SPLICE) BOX

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

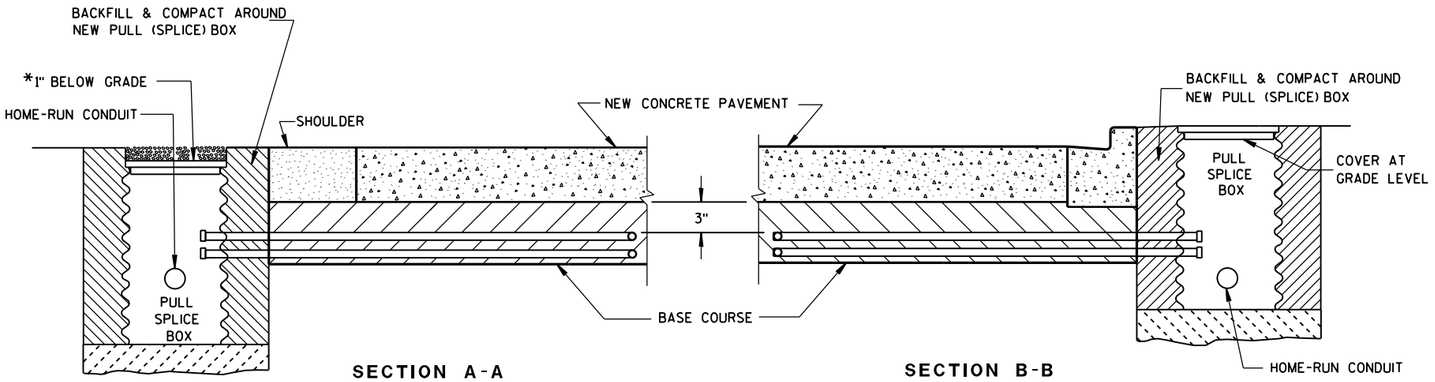
APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 F 15-4a

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S.D.D. 9 F 15-4a



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

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

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

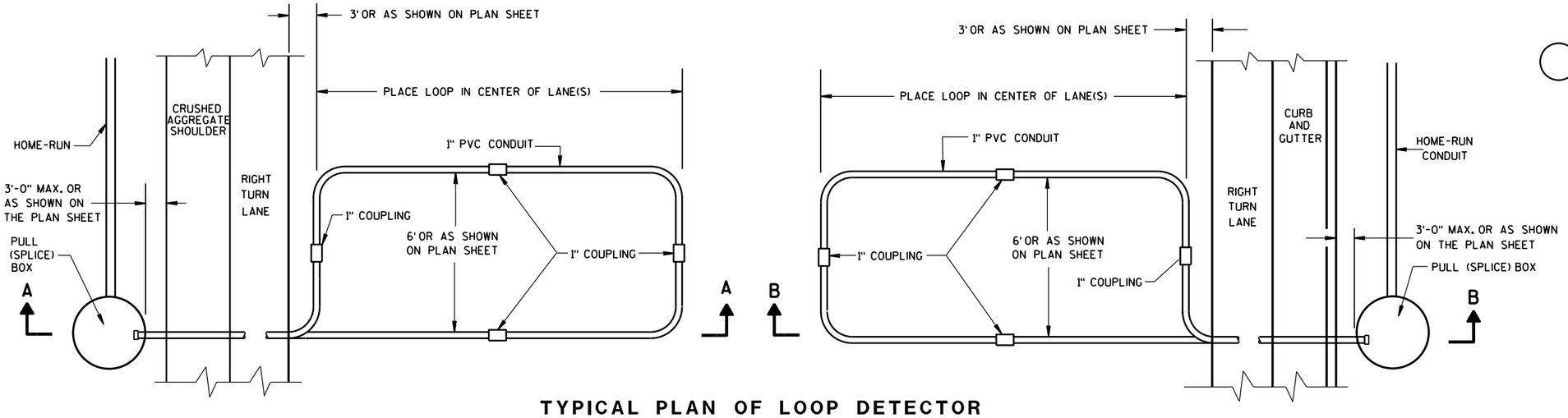
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

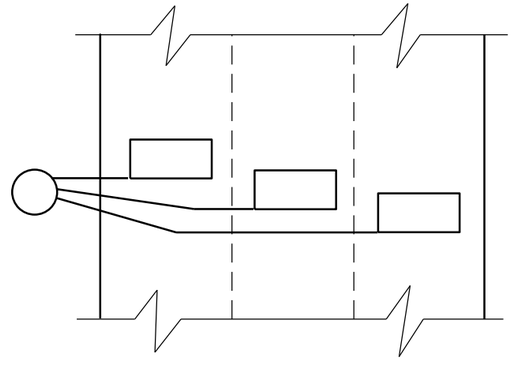
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



MULTI-LANE INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

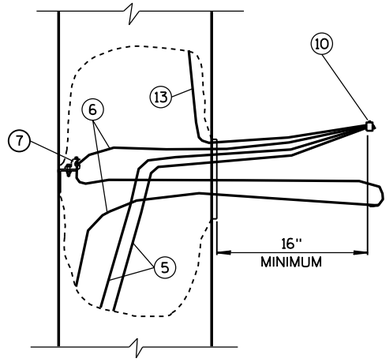
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Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL
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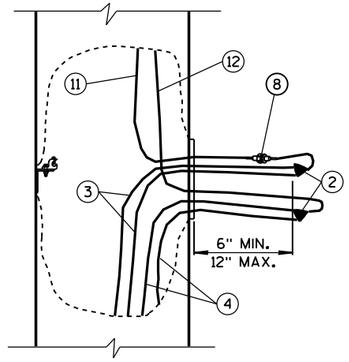
S.D.D. 9 F 15-4b

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S.D.D. 9 F 15-4b

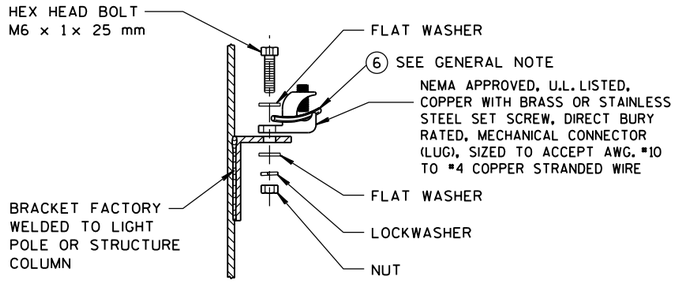


EQUIPMENT GROUNDING CONDUCTOR SLACK



UNGROUNDED CONDUCTOR SLACK (AND GROUNDED NEUTRAL SLACK IN GROUNDED NEUTRAL SYSTEM)

TYPICAL CONDUCTOR SLACK AT HANDHOLES



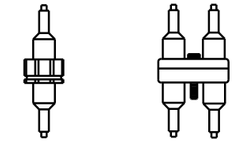
HANDHOLE GROUNDING LUG

(NUT, BOLT, WASHERS, AND LOCK WASHERS SHALL BE STAINLESS STEEL)

CONDUCTOR COLOR CODES

KEY	CONDUCTOR	COLOR
3	UNGROUNDED LINE WIRE	*
4	GROUNDED LINE WIRE	WHITE
5	SYSTEM GROUNDING LINE WIRE	GREEN
6	GROUNDING ELECTRODE CONDUCTOR	BARE
11	UNGROUNDED POLE WIRE	*
12	GROUNDED POLE WIRE	WHITE
13	EQUIPMENT GROUNDING POLE WIRE	GREEN

* FOLLOW COLOR CODING SHOWN IN THE PLANS. WHERE THE PLANS DO NOT SHOW COLOR CODING, USE BLACK FOR SINGLE LUMINAIRE POLES; BLACK AND RED FOR TWIN LUMINAIRE POLES.



FUSE ASSEMBLIES

GENERAL NOTES

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

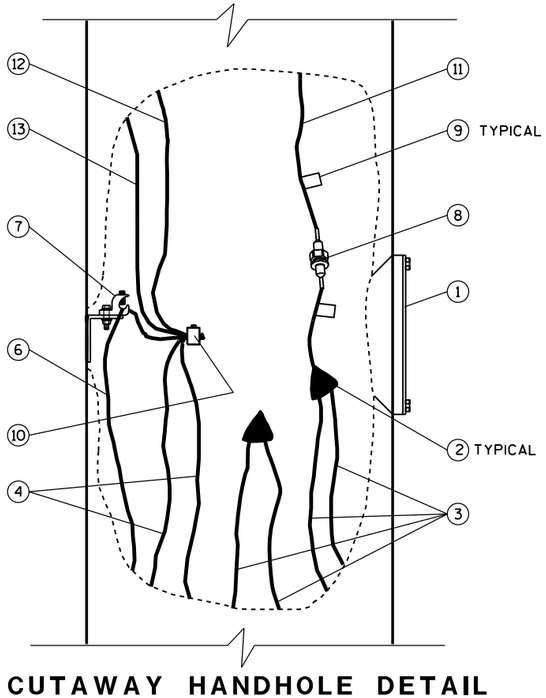
USE THIS DETAIL IN CONJUNCTION WITH THE ELECTRICAL DETAILS FOR THE APPLICATION, WHICH MAY BE A LIGHT POLE, SIGN BRIDGE, ETC.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLE GROUNDING LUG TO THE CONNECTOR.

THREE POLE WIRES ARE SHOWN FOR A SINGLE LUMINAIRE LIGHT POLE. THREE ADDITIONAL POLE WIRES REQUIRED FOR TWIN LUMINAIRE LIGHT POLES ARE OMITTED FROM THE DRAWING FOR CLARITY. IN THE TWIN POLE CASE, BUNDLE EACH SET OF THREE WIRES WITH A NYLON CABLE TIE.

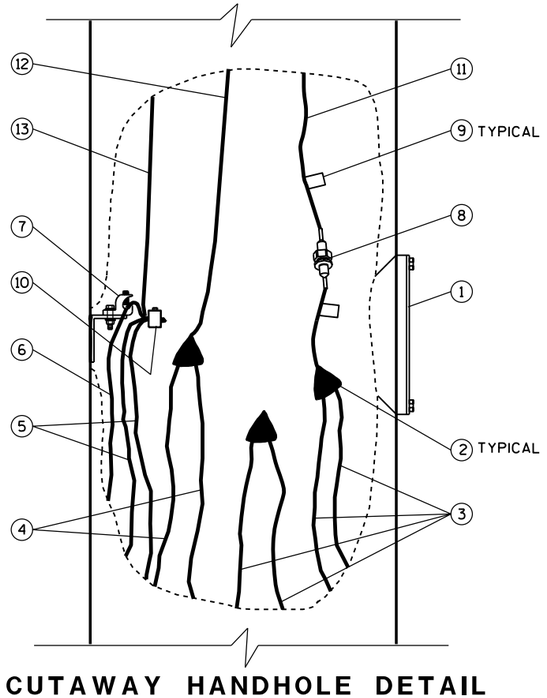
IN 3-PHASE SYSTEMS, THERE WILL BE ONE MORE UNGROUNDED LINE WIRE, WHICH IS OMITTED FROM THE DRAWING FOR CLARITY.

CIRCUIT TAGS SHALL BE INSTALLED ONLY WHERE REQUIRED IN THE SPECIAL PROVISIONS.



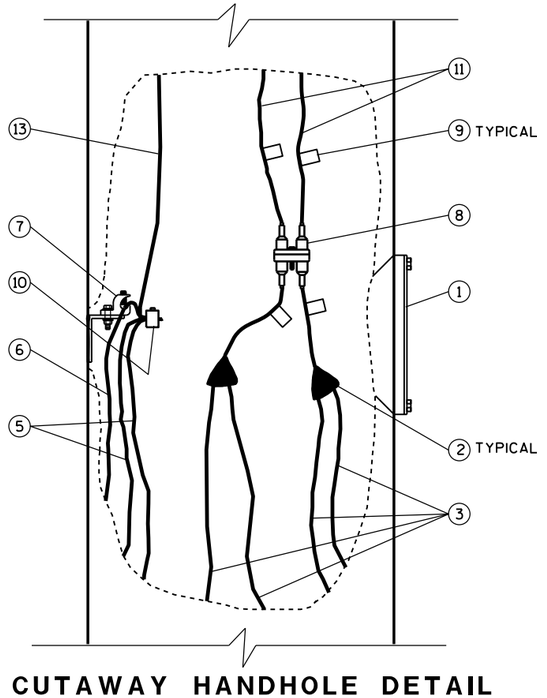
CUTAWAY HANDHOLE DETAIL

GROUNDED NEUTRAL SYSTEMS
1-Φ



CUTAWAY HANDHOLE DETAIL

ISOLATED NEUTRAL SYSTEMS
1-Φ SHOWN; 3-Φ WYE SIMILAR
(SEE GENERAL NOTE)



CUTAWAY HANDHOLE DETAIL

PHASE-TO-PHASE SYSTEMS
1-Φ SHOWN; 3-Φ DELTA SIMILAR
(SEE GENERAL NOTE)

NOTE: REQUIRED CONDUCTOR SLACK NOT SHOWN ON "CUTAWAY HAND HOLE" DETAILS FOR DRAWING CLARITY, SEE "TYPICAL CONDUCTOR SLACK AT HANDHOLES" ON THIS SHEET.

1. HANDHOLE AND COVER
2. INSULATED SPLICE
3. UNGROUNDED LINE WIRE
4. GROUNDED LINE WIRE
5. SYSTEM GROUNDING LINE WIRE
6. GROUNDING ELECTRODE CONDUCTOR
7. HANDHOLE GROUNDING LUG
8. FUSE ASSEMBLY, 1P OR 2P AS REQUIRED
9. CIRCUIT TAG (SEE GENERAL NOTE)
10. REVERSIBLE PRESSURE OR COMPRESSION GROUNDING CONNECTOR (NOT INSULATED)
11. UNGROUNDED POLE WIRE
12. GROUNDED POLE WIRE
13. EQUIPMENT GROUNDING POLE WIRE

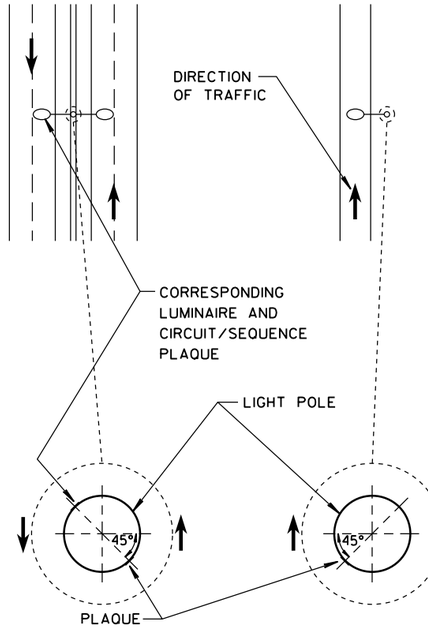
ELECTRICAL HANDHOLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 10 A 1-3



MEDIAN POLE SINGLE ARM POLE

LOCATION OF LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

WHERE SHOWN IN THE PLANS, REPLACEMENT PLAQUES WILL BE MEASURED AND PAID SEPARATELY.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETRORFLECTIVE

LINES - BLACK, 1/2" WIDE, SELF-ADHESIVE

CHARACTERS - BLACK, SELF-ADHESIVE, SERIES "D", SIZE AS SHOWN

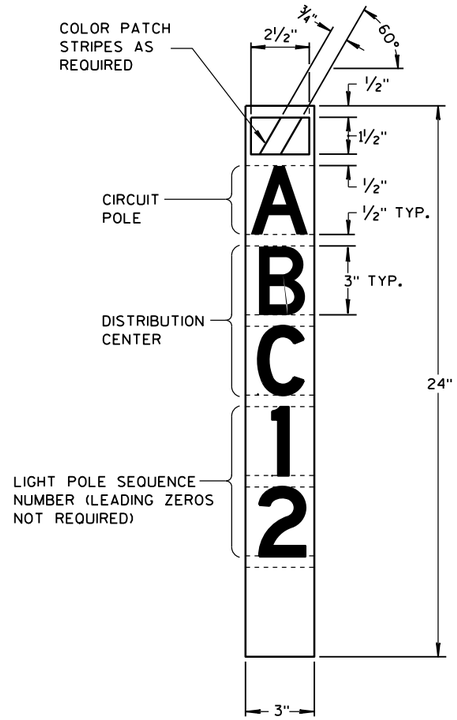
COLOR PATCHES - VARIOUS COLORS, SELF-ADHESIVE VINYL SHEETING

WITH THE APPROVAL OF THE ENGINEER, THE BASE MATERIAL MAY BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE SURFACE, IN CASES SUCH AS SMOOTH, CLEAN ALUMINUM POLES.

ALTERNATIVE COMPUTER-GENERATED SIGN LETTERING MAY BE ACCEPTED IF THE ENGINEER FINDS IT TO BE EQUIVALENT.

COLOR PATCH CODE FOR HPS AND LED LUMINAIRES

HPS	LED	COLOR PATCH CODE
1000 WATT		NO PATCH
400 WATT	CATEGORY D	ORANGE
310 WATT		BLUE
250 WATT	CATEGORY C	ORANGE WITH WHITE STRIPE
200 WATT		RED
150 WATT	CATEGORY B	GREEN
100 WATT	CATEGORY A	BROWN
70 WATT	CATEGORY UDL	BROWN WITH WHITE STRIPE



LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

IDENTIFICATION PLAQUES LIGHT POLES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
Feb. 2015 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL
FHWA	

GENERAL NOTES

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

USE THIS DETAIL IN CONJUNCTION WITH THE DETAIL FOR ELECTRICAL HANDHOLE WIRING.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLE GROUNDING LUG TO THE CONNECTOR.

WIRING FOR SINGLE LUMINAIRE POLES IS SHOWN WITH SOLID LINES. WIRING FOR THE SECOND LUMINAIRE OF TWIN LUMINAIRE POLES IS SHOWN WITH DOTTED LINES.

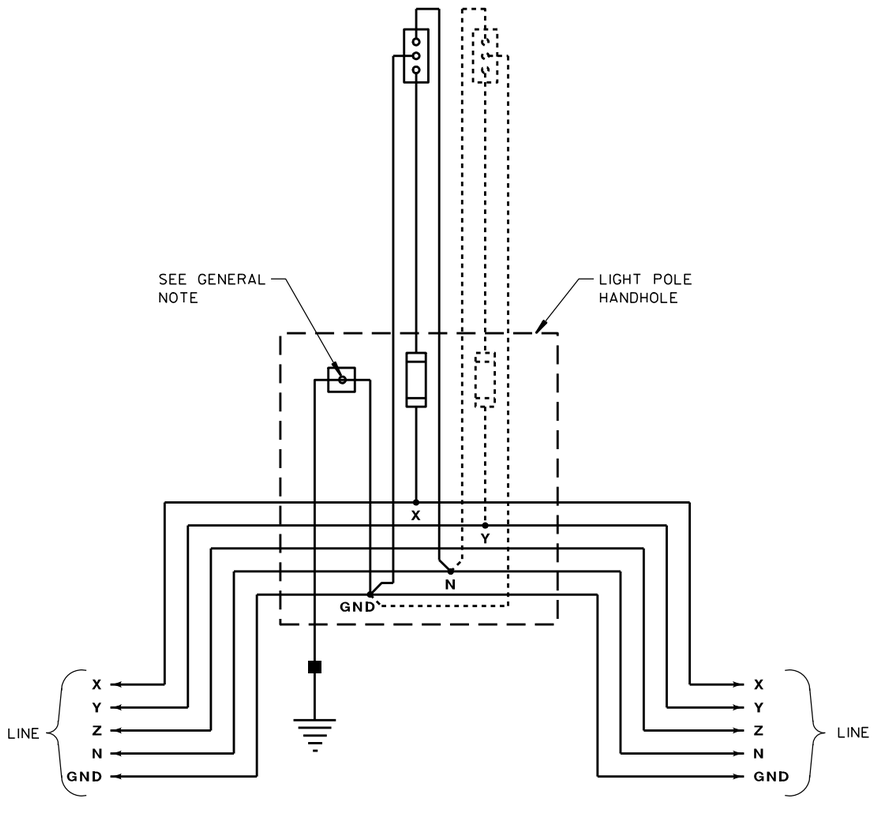
THE PLANS WILL SHOW WHICH CIRCUIT LEG(S) ARE CONNECTED TO EACH INSTALLATION.

HANDHOLE FUSE SCHEDULES

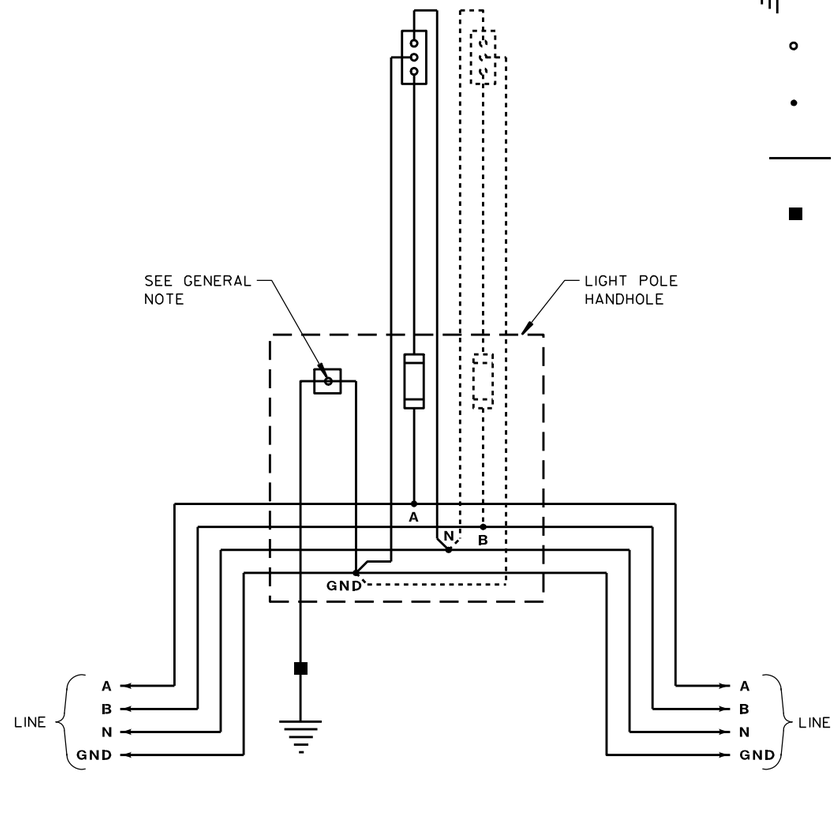
LINE VOLTAGE	BALLAST WATTAGE	
φ-GROUND	70-200 W	250-400 W
120 VAC	5 A	10 A
240 VAC	5 A	5 A
277 VAC	5 A	5 A
480 VAC	3 A	5 A

LEGEND

A,B,X,Y,Z	UNGROUNDED CIRCUIT CONDUCTORS
N	GROUNDED CIRCUIT CONDUCTORS
GND	EQUIPMENT GROUNDING CONDUCTOR
P	POLE (ELECTRICAL CIRCUIT)
φ	PHASE (ELECTRICAL CURRENT)
	HANDHOLE GROUND LUG
	SINGLE-POLE (1P) FUSE ASSEMBLY
	TWO-POLE (2P) FUSE ASSEMBLY
	UNFUSED LUMINAIRE
	EQUIPMENT GROUNDING ELECTRODE
	TERMINAL
	SPLICE
	CONDUCTOR
	EXOTHERMIC WELD



TYPICAL WIRING DIAGRAM
ISOLATED NEUTRAL SYSTEM
3-φ 208Y/120VAC OR 480Y/277VAC 4 WIRE



TYPICAL WIRING DIAGRAM
ISOLATED NEUTRAL SYSTEM
1-φ 120/240VAC OR 240/480VAC 3 WIRE

ELECTRICAL DETAILS
GROUND MOUNT LIGHT POLES
ISOLATED NEUTRAL SYSTEM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

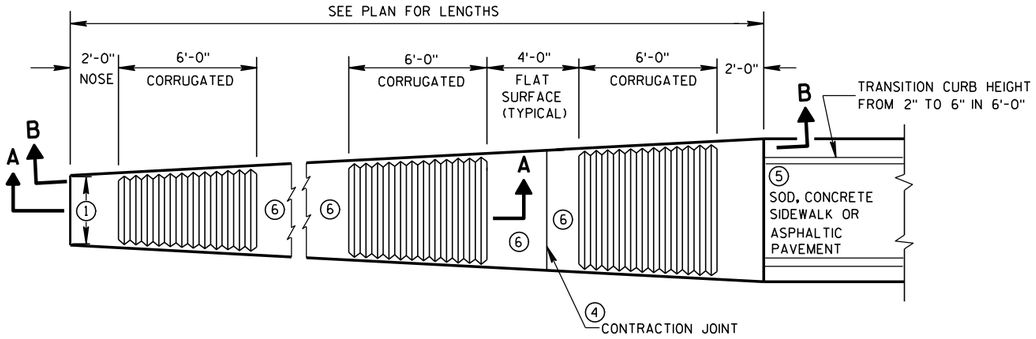
APPROVED
10/25/2010 DATE
/S/ John Corbin
STATE ELECTRICAL ENGI
FHWA

6

S.D.D. 10 A 5-2

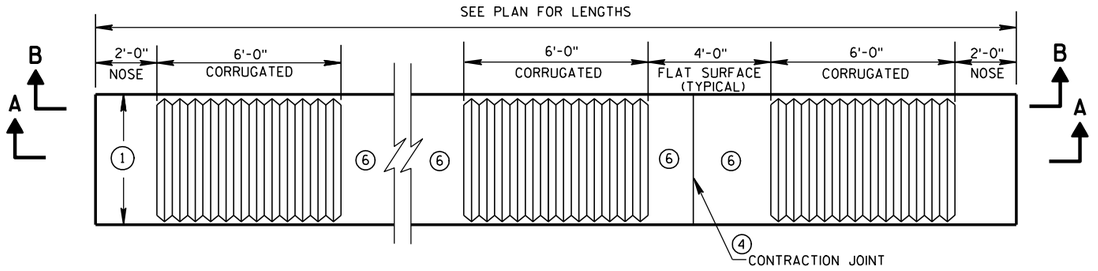
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S.D.D. 10 A 5-2



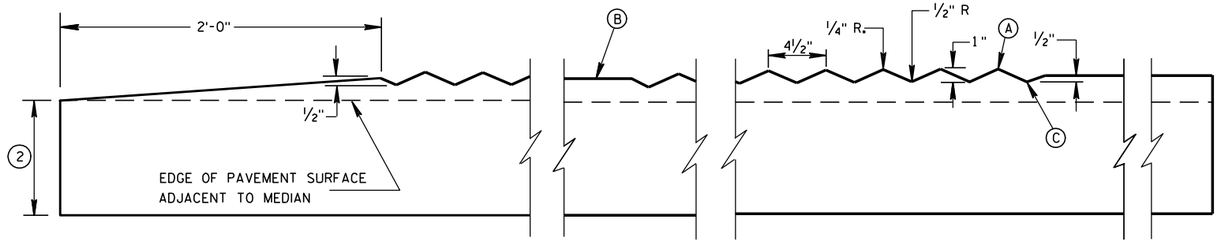
PLAN VIEW

VARIABLE WIDTH CONCRETE CORRUGATED MEDIAN



PLAN VIEW

UNIFORM WIDTH CONCRETE CORRUGATED MEDIAN



SECTION A-A

LONGITUDINAL SECTION

GENERAL NOTES

(1) SEE PLANS FOR CONSTANT OR VARIABLE WIDTH.

(2) THE DEPTH OF THE CONCRETE CORRUGATED MEDIAN SHALL BE 9-INCHES UNLESS SHOWN OTHERWISE IN THE PLAN.

ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN IN THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

(2) ASPHALTIC CONCRETE OVER NEW OR EXISTING CONCRETE BASE COURSE, OR PAVEMENT.

(3) ASPHALTIC PAVEMENT OVER BASE AGGREGATE DENSE.

(3) 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.

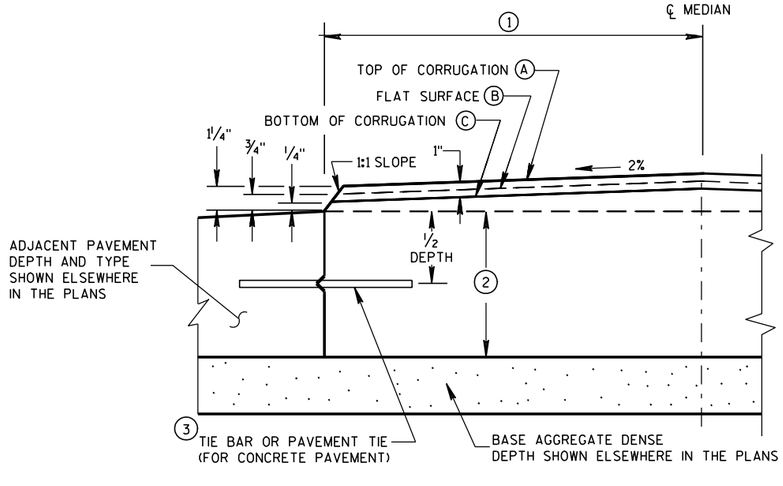
INSTALL TIE BARS TO MAINTAIN A MINIMUM OF 3-INCHES OF COVER BETWEEN THE TIE BAR AND THE CONCRETE SURFACE (BOTTOM AND TOP).

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE PAVEMENT OR 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.

(4) CONCRETE CORRUGATED MEDIAN CONTRACTION JOINTS SHALL BE CONSTRUCTED TO MATCH THE JOINTS IN ADJACENT CONCRETE PAVEMENT. WHERE ADJACENT PAVEMENT IS ASPHALT WITH BASE AGGREGATE DENSE. TRANSVERSE CONTRACTION JOINTS SHALL BE PROVIDED AT 20 FOOT INTERVALS.

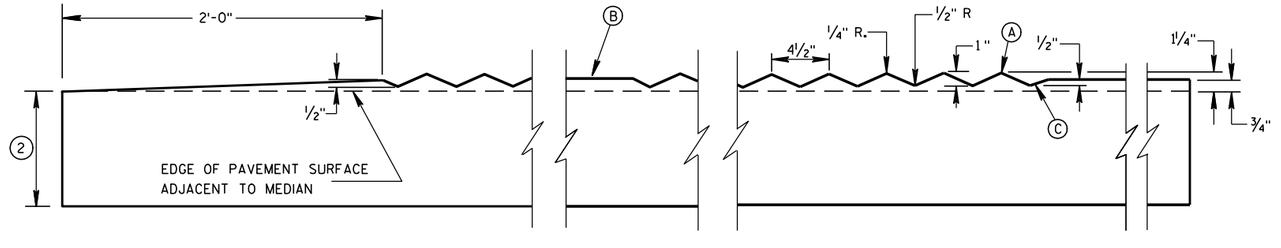
(5) SURFACE TYPE AND DETAILS ARE DEFINED ELSEWHERE IN THE PLAN.

(6) YELLOW MARKING ON FLAT SURFACE WHEN MEDIAN SEPARATES OPPOSING TRAFFIC.



HALF CROSS SECTION

(2) CONCRETE CORRUGATED MEDIAN AND ADJACENT PAVEMENT



SECTION B-B

LONGITUDINAL SECTION

CONCRETE CORRUGATED MEDIAN

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/17/07
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

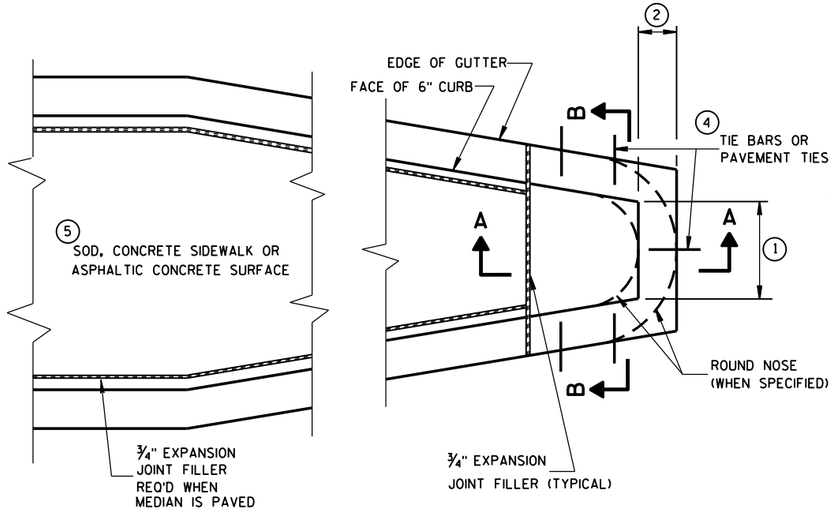
FHWA

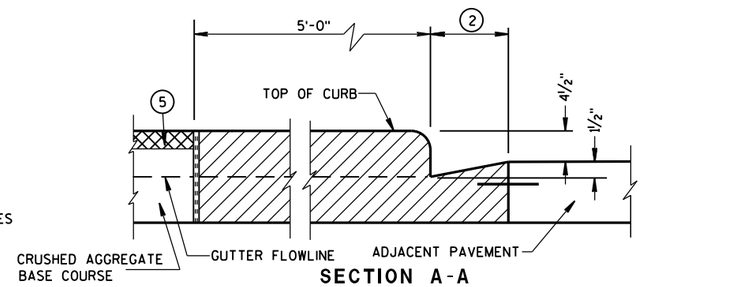
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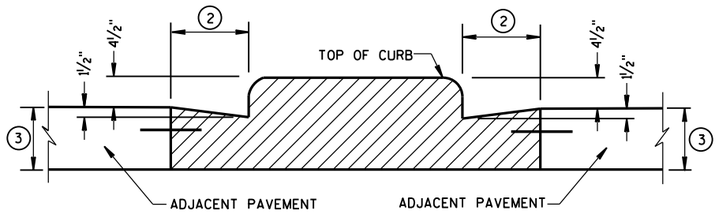
S.D.D. 11 B 1-5

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S.D.D. 11 B 1-5







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.

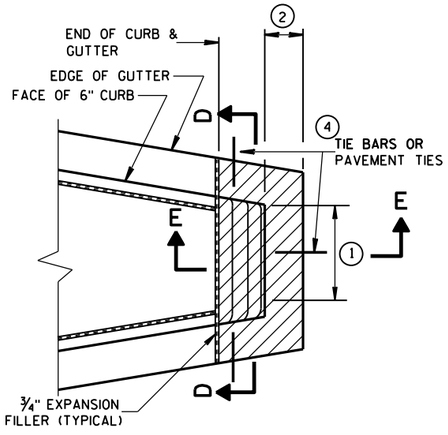
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

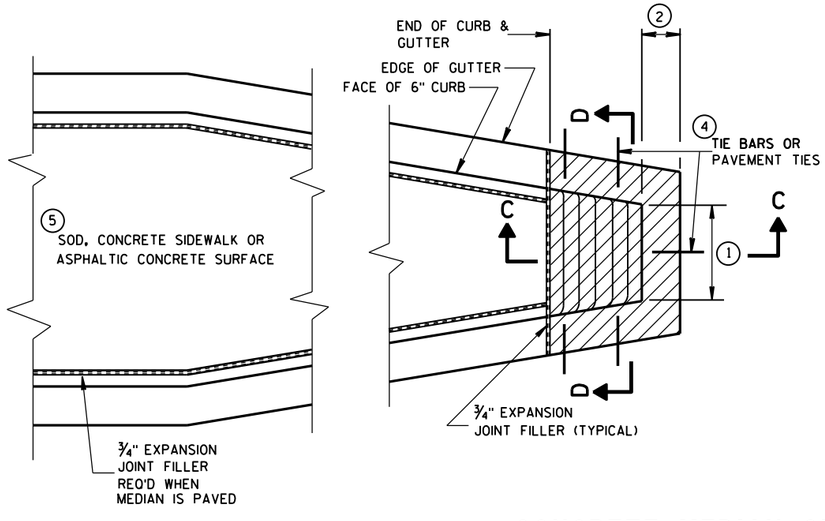
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

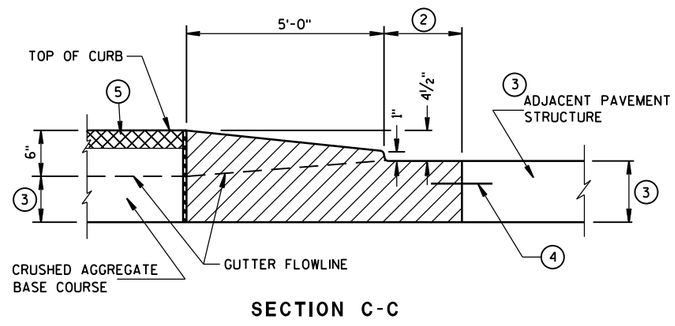
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

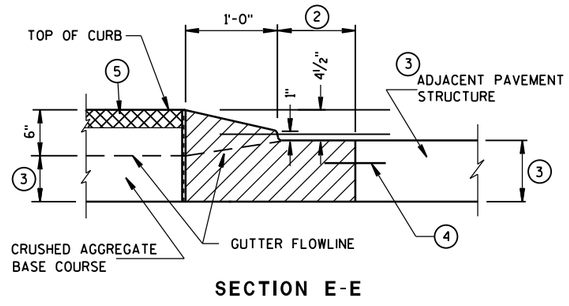
PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



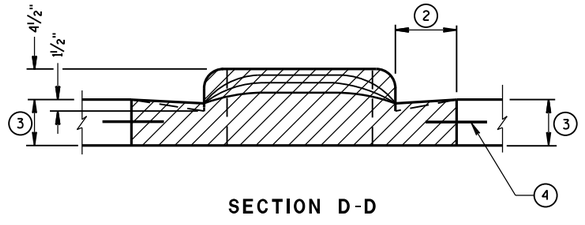






CONCRETE MEDIAN SLOPED NOSE TYPE 2

CONCRETE MEDIAN SLOPED NOSE TYPE 1



CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/8/2006
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER

315

FHWA

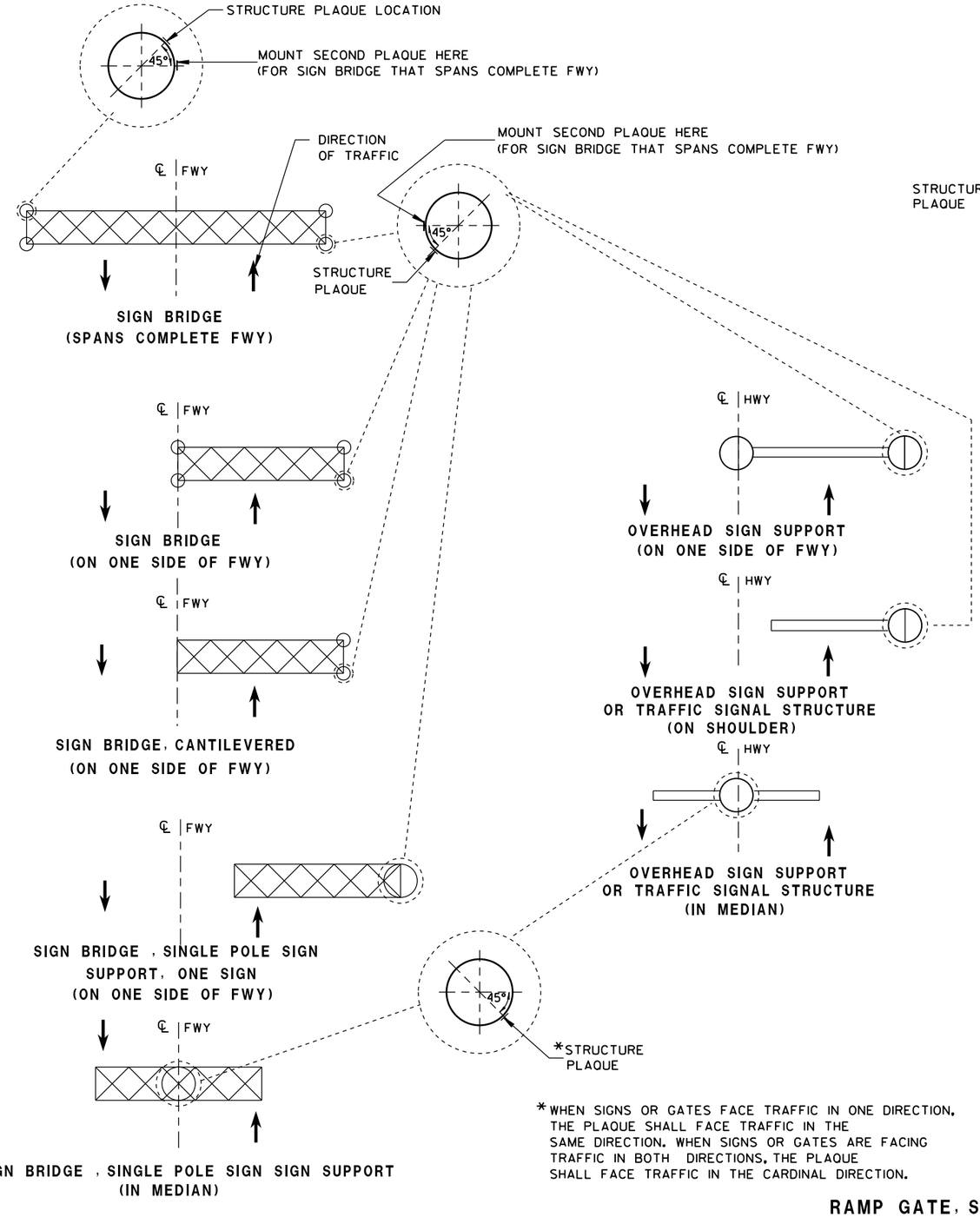
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S.D.D. 11 B 2-2

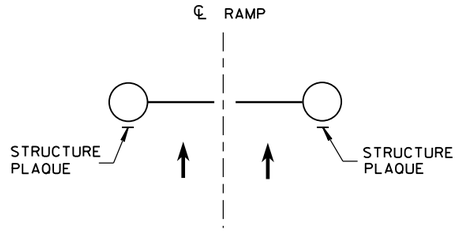
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S.D.D. 11 B 2-2

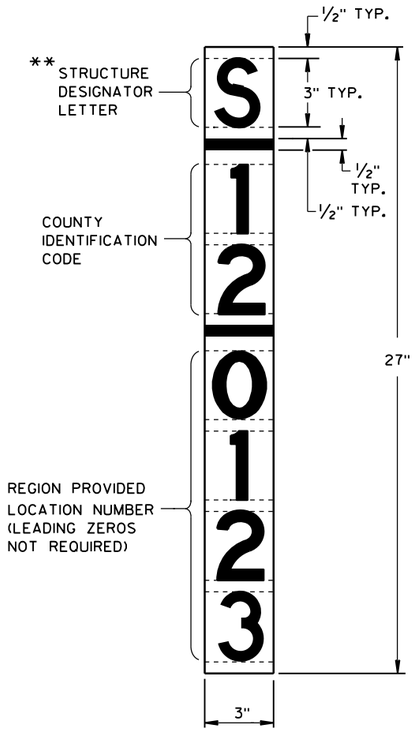


*WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.

LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES



RAMP GATE
(ACROSS FWY ON-RAMP)



** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

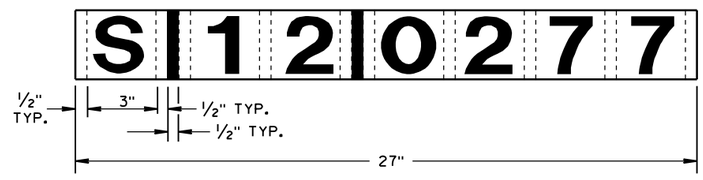
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

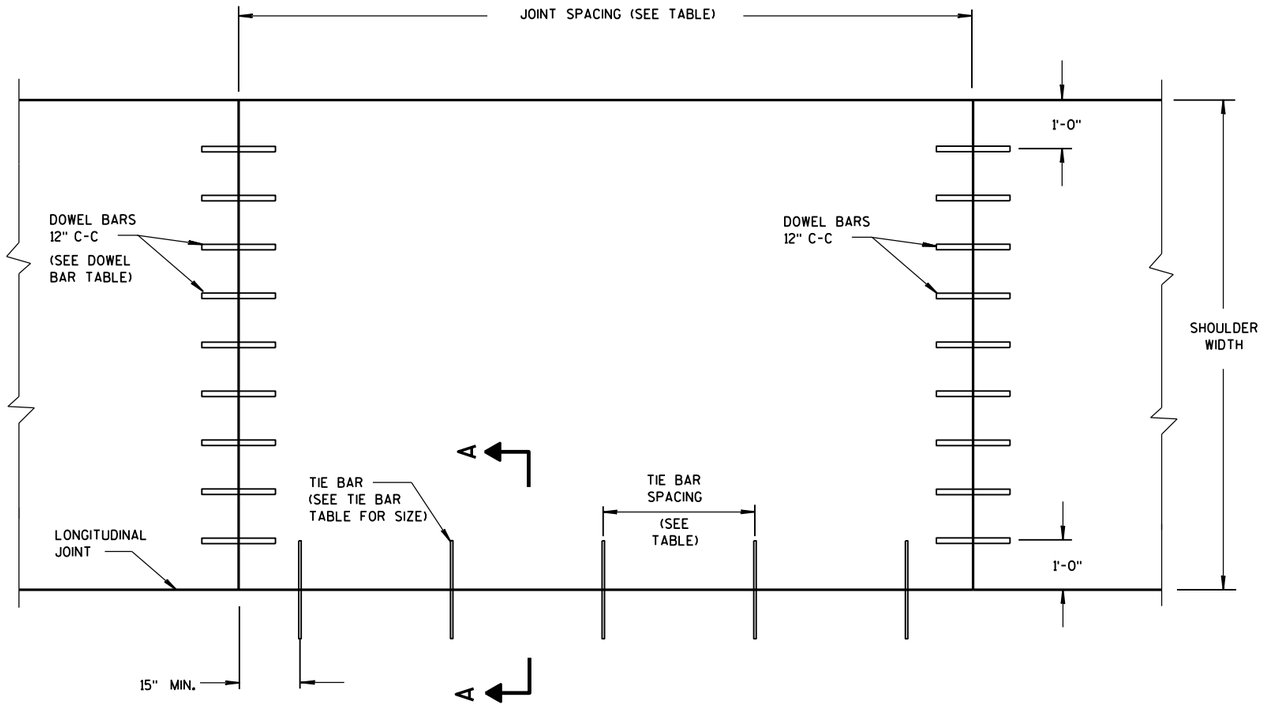
STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/4/2012 DATE
/S/ Travis Feltes STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 12 A 4-3



PLAN VIEW

CONCRETE PAVEMENT SHOULDER

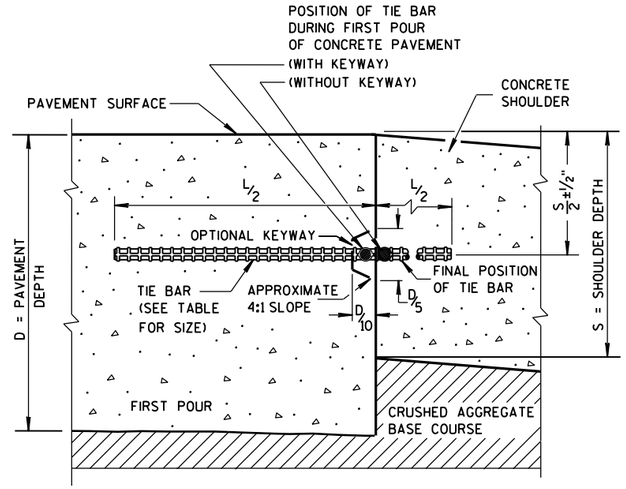
GENERAL NOTES

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.

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER***	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'

*** FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

CONCRETE PAVEMENT SHOULDERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

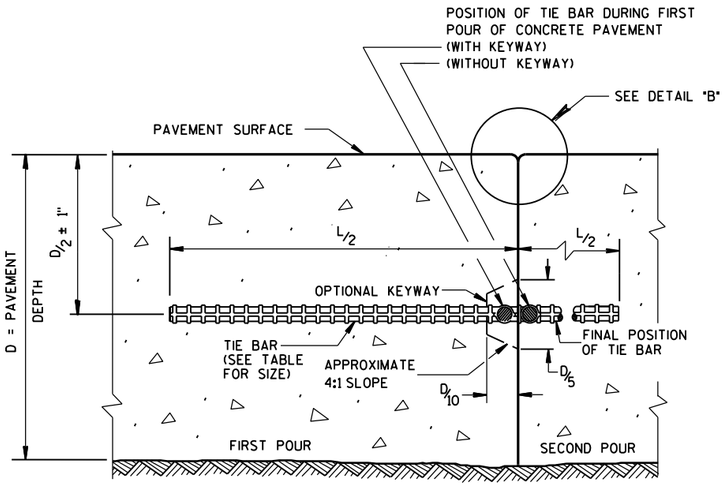
APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPERINTENDENT
FHWA

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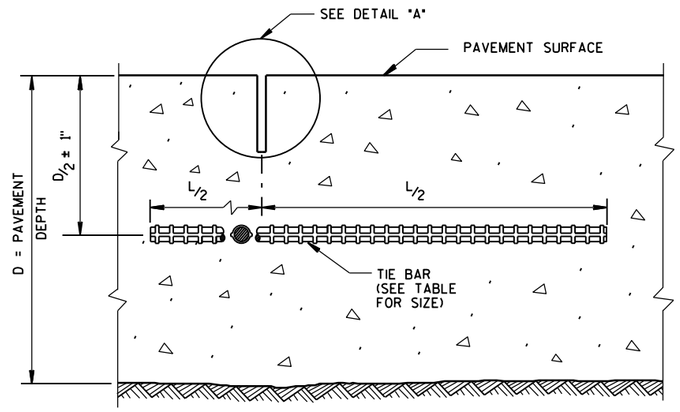
S.D.D. 13 A 3-6

6

S.D.D. 13 A 3-6



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

PLAN VIEW

SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

DETAIL "A"

DETAIL "B"

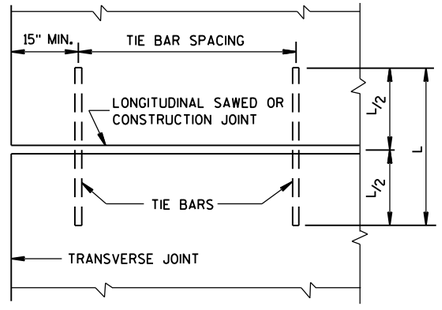
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

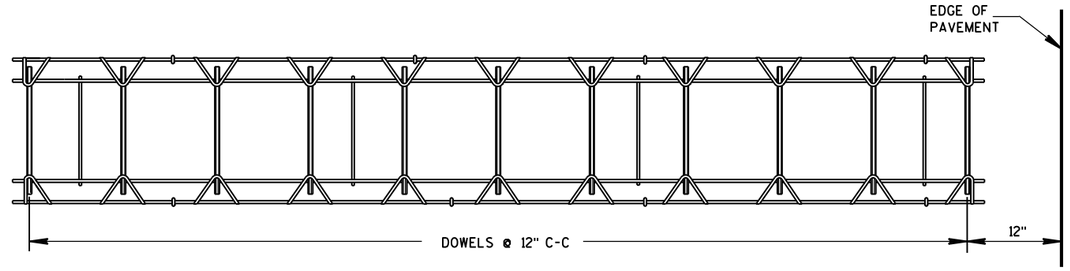
CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

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S.D.D. 13 C 1-18

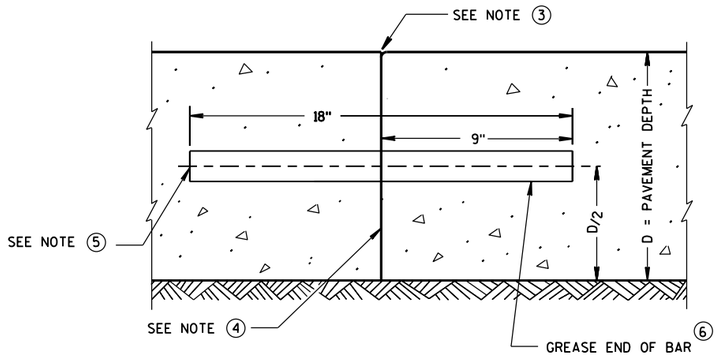


PLAN VIEW

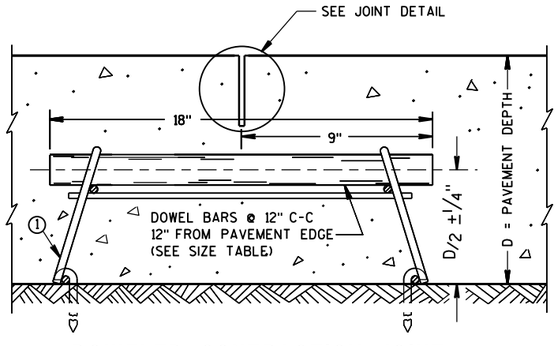


SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



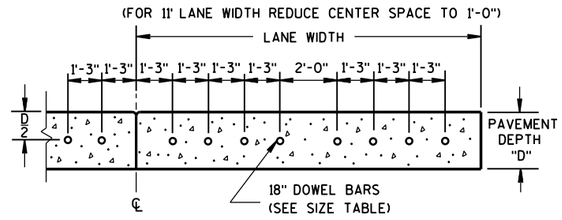
TRANSVERSE CONSTRUCTION JOINT



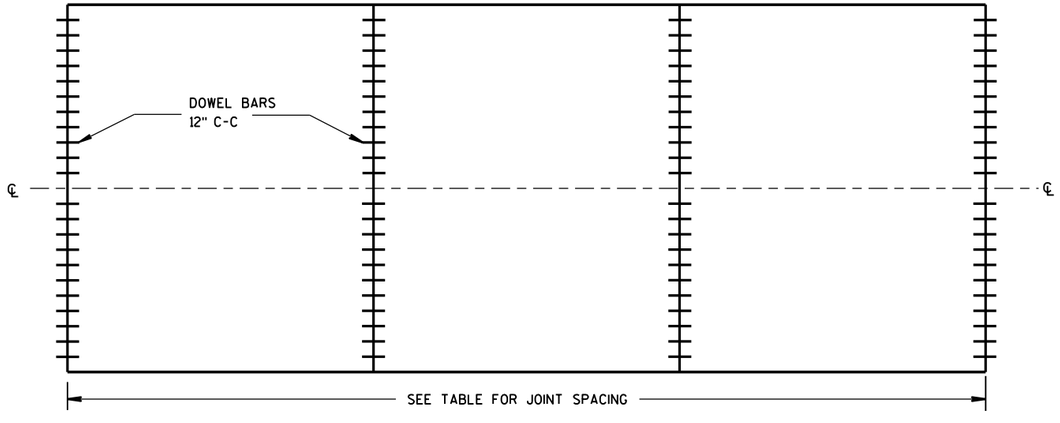
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① **OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.**

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

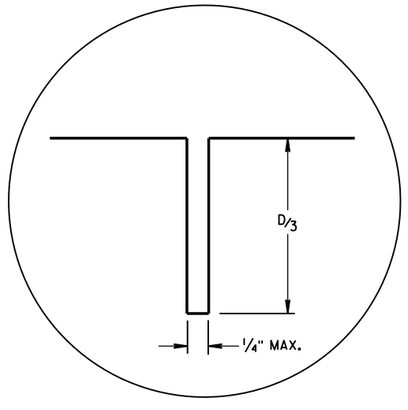
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



JOINT DETAIL

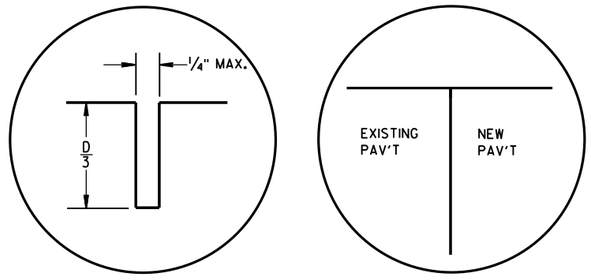
URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/3/2013 DATE
/S/ Deb Bischoff
PAVEMENT POLICY & DE ...NEER
FHWA

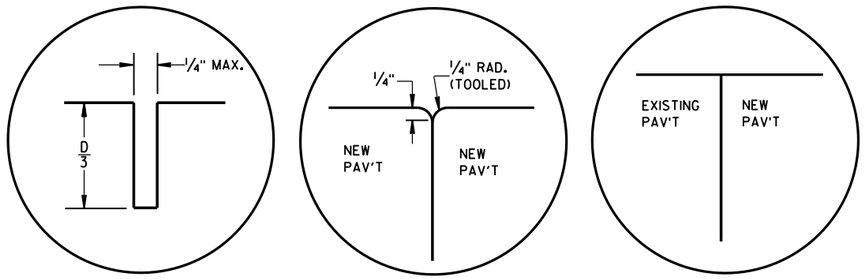
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S.D.D. 13 C 13-8



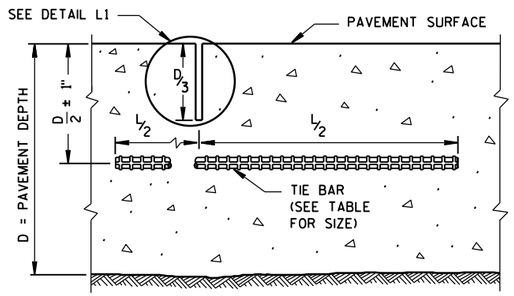
C1 C2

TRANSVERSE JOINTS



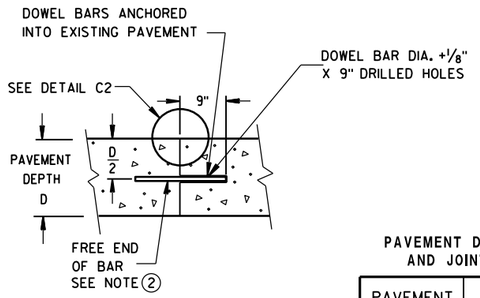
L1 L2 L3

LONGITUDINAL JOINTS



SECTION C-C

SAWED JOINT



SECTION D-D

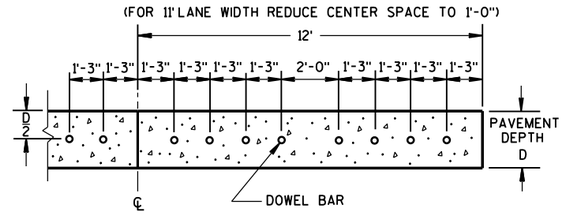
GENERAL NOTES

ANCHOR TIE BARS AND DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

(2) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.



SECTION E-E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

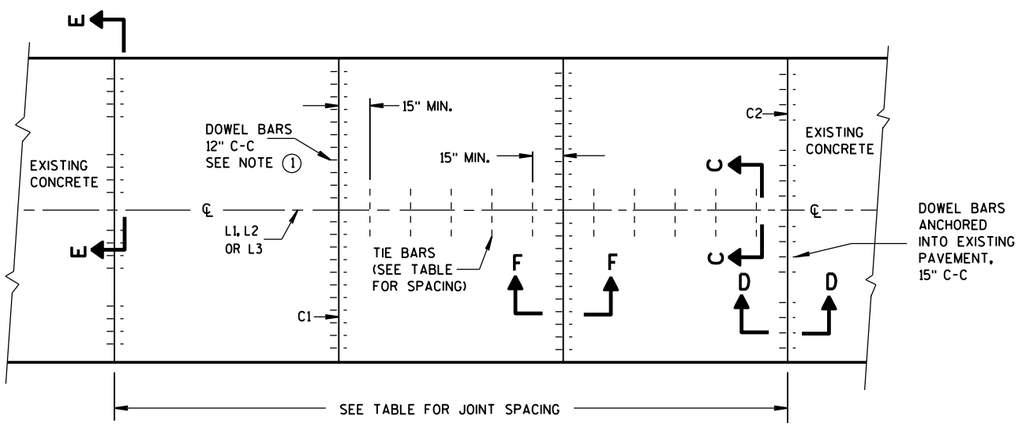
PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5½", 6, 6 ½"	NONE	12'
7, 7 ½"	1"	14'
8, 8 ½"	1 ¼"	15'
9, 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

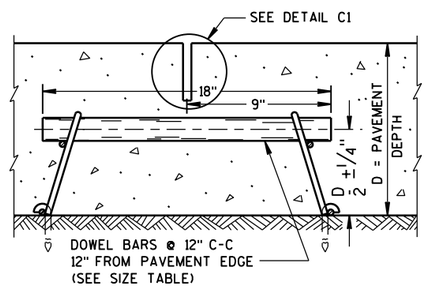
* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW

CONCRETE BASE CONTRACTION JOINT LOCATIONS



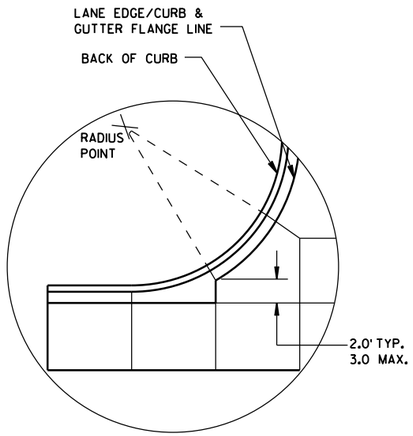
SECTION F-F

CONTRACTION JOINT

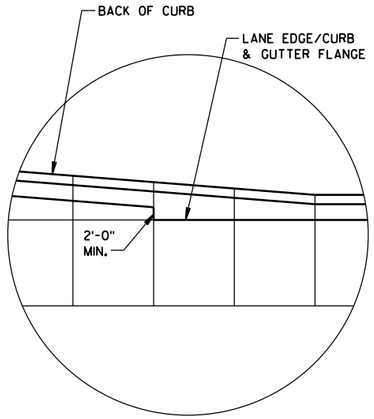
CONCRETE BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

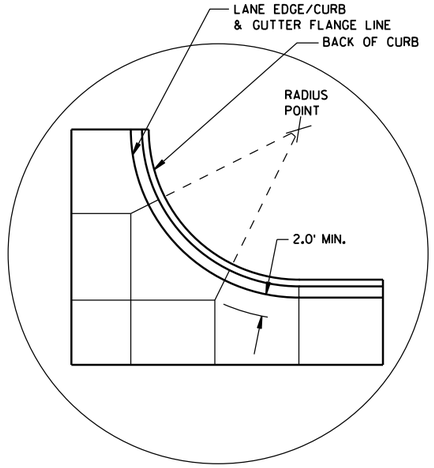
6
S.D.D. 13 C 15-6a



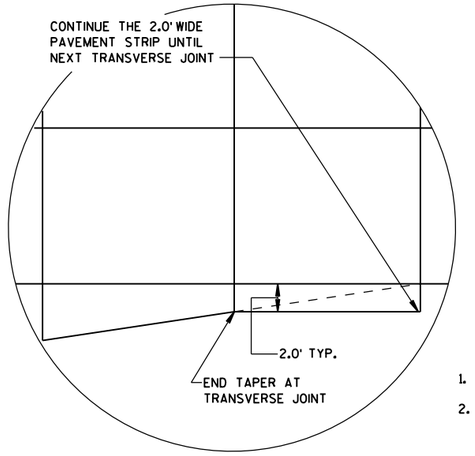
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

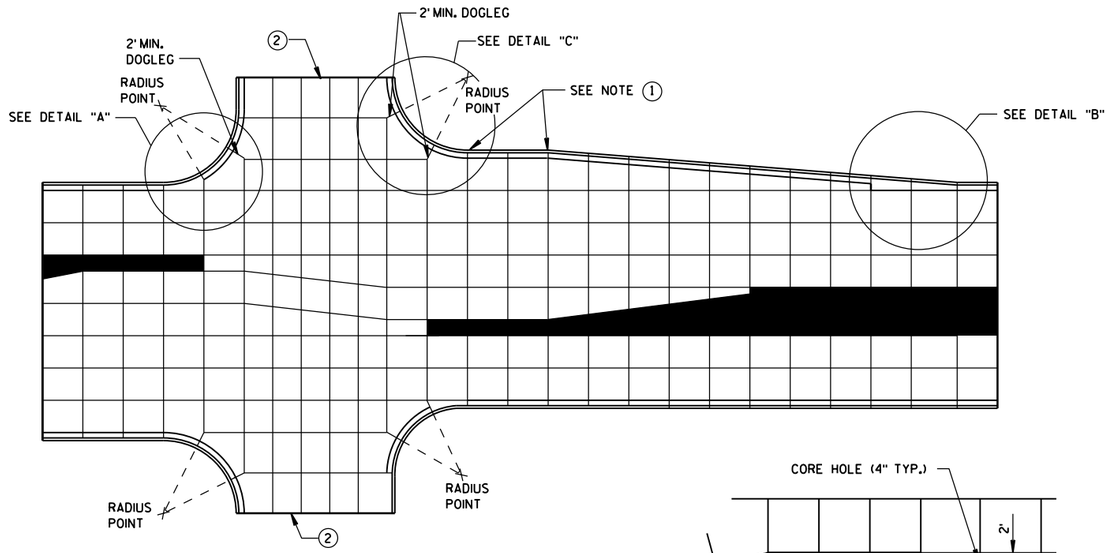
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

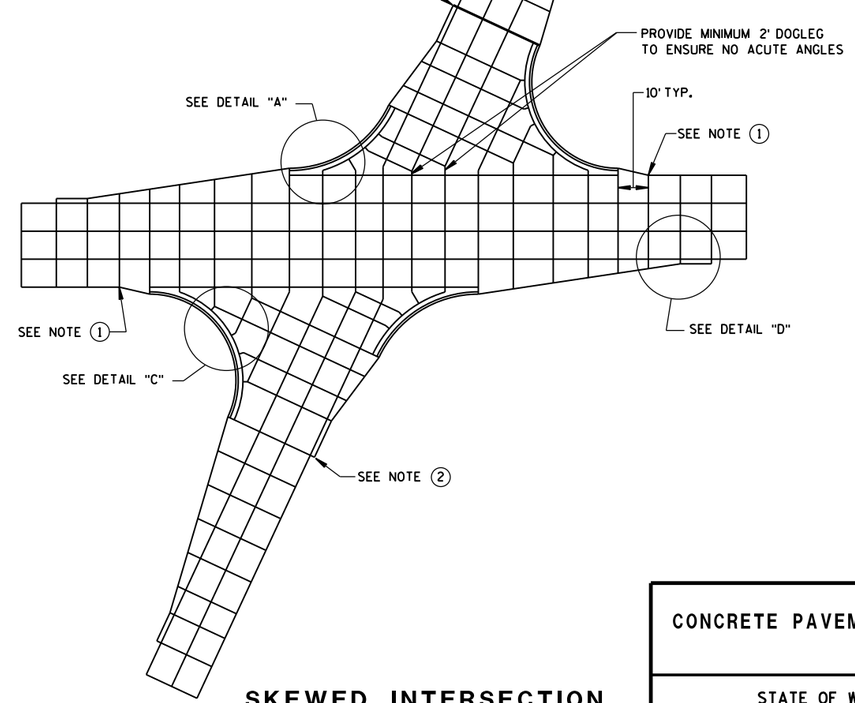
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



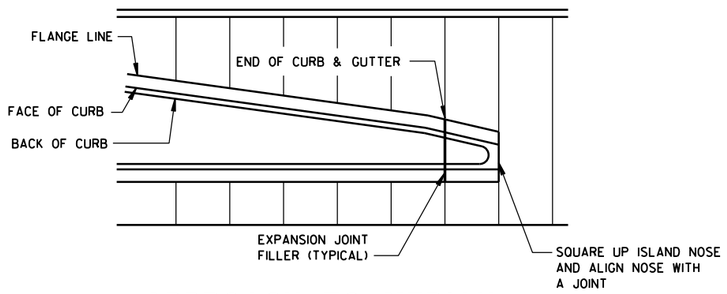
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

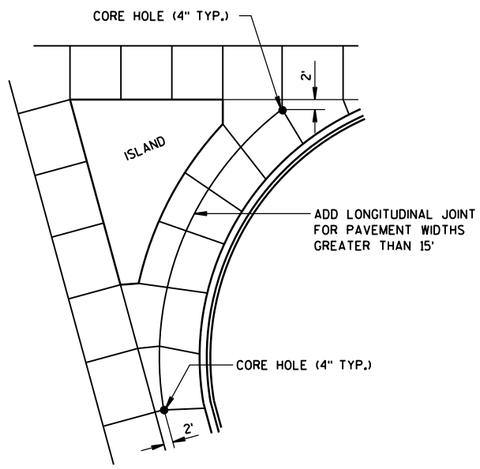
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

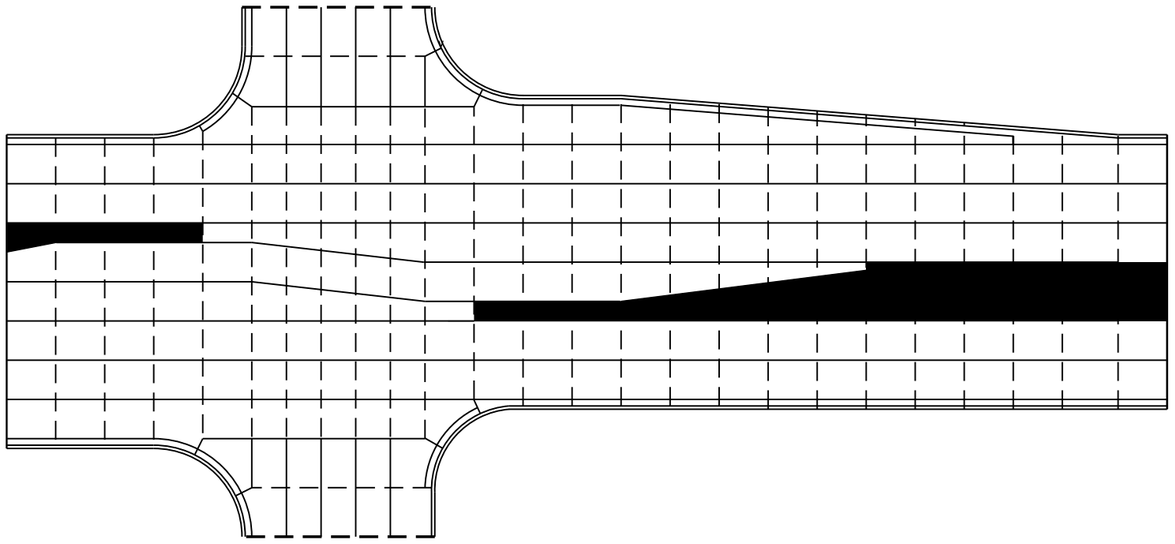
6
S.D.D. 13 C 18-3a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

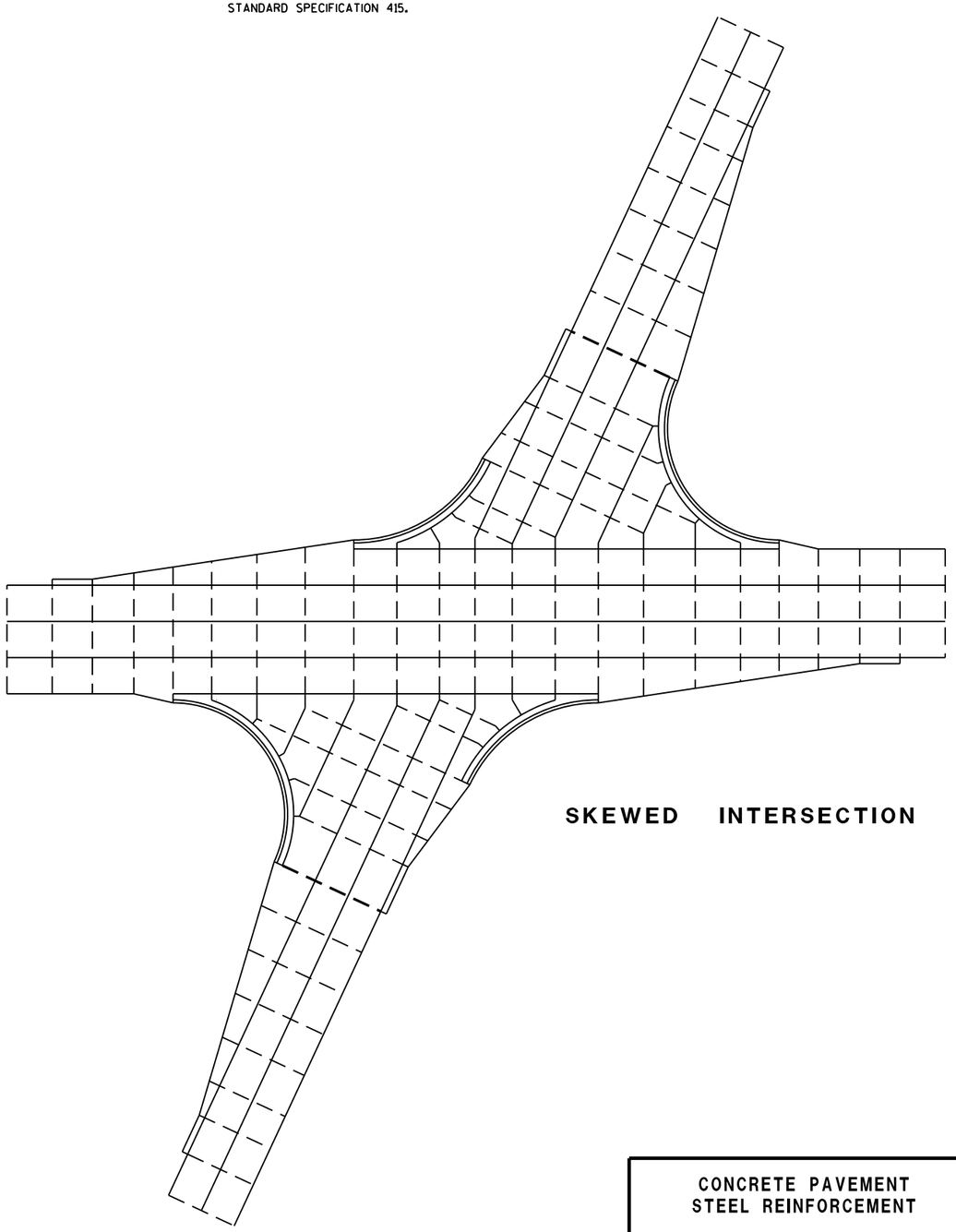
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

CONCRETE PAVEMENT
STEEL REINFORCEMENT

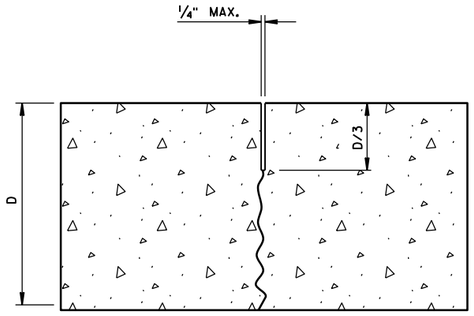
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

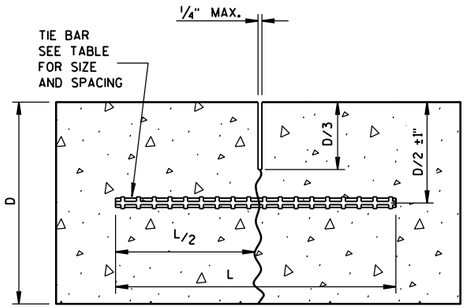
S.D.D. 13 C 18-3b

6

S.D.D. 13 C 18-3b



UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

TIE BAR TABLE

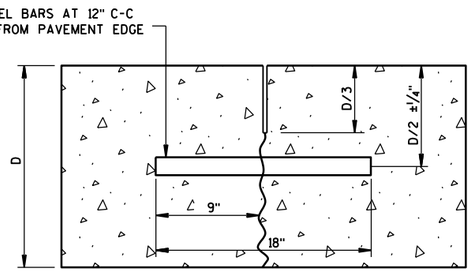
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

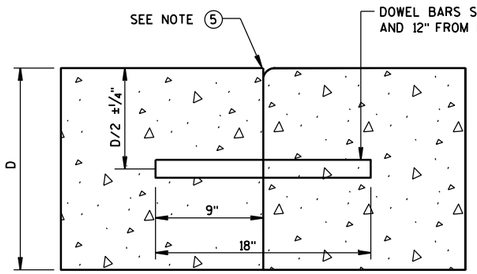
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



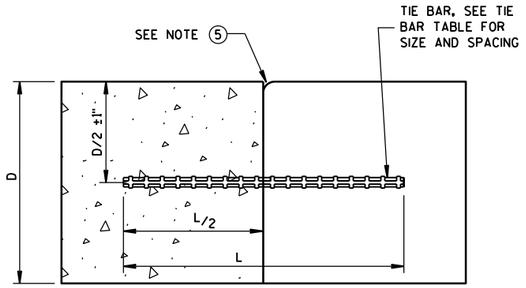
DOWELED-TRANSVERSE

CONTRACTION JOINTS

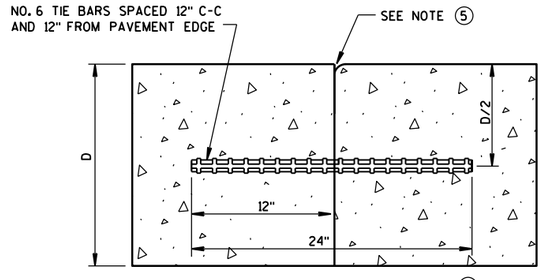
SEE NOTE (2)



DOWELED TRANSVERSE (3)

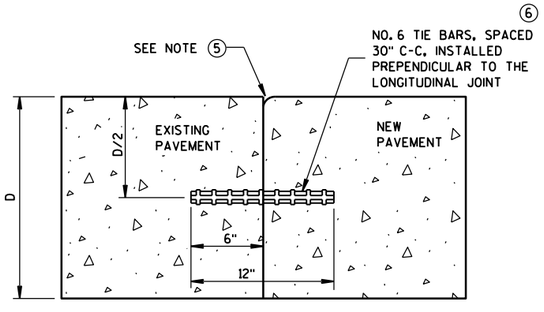


TIED LONGITUDINAL



TIED TRANSVERSE (3)

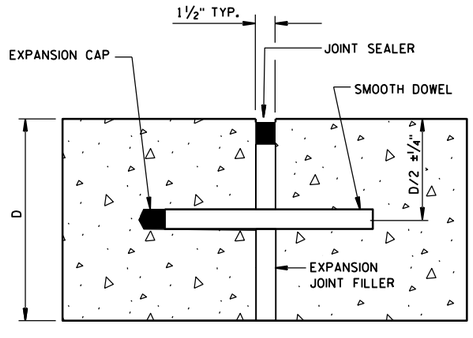
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

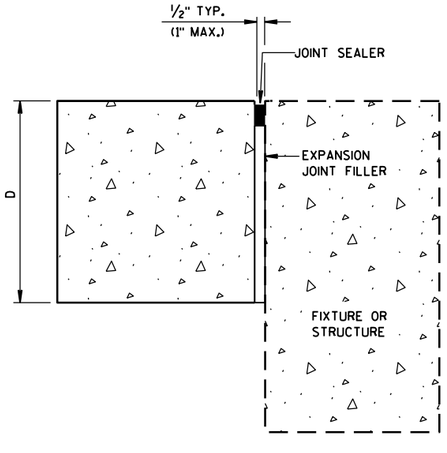
CONSTRUCTION JOINTS

SEE NOTE (4)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

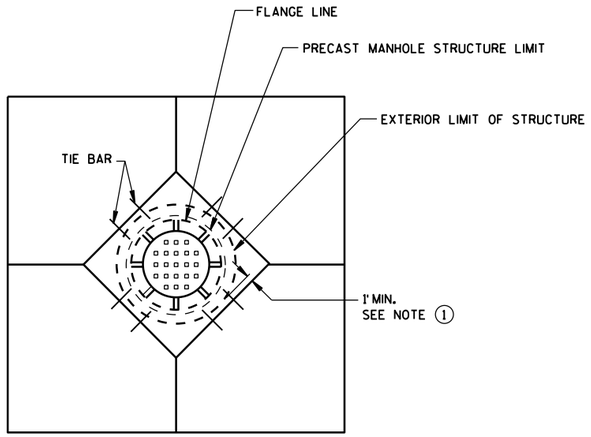
EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

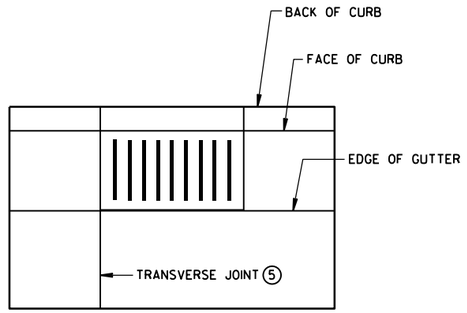
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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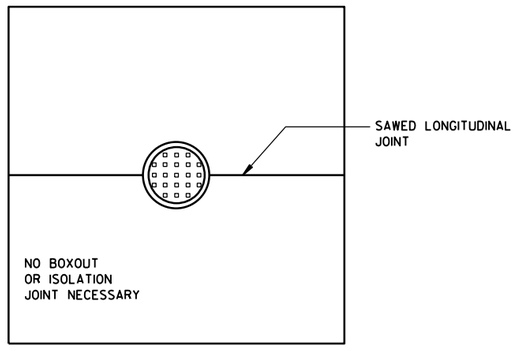
S.D.D. 13 C 18-3c



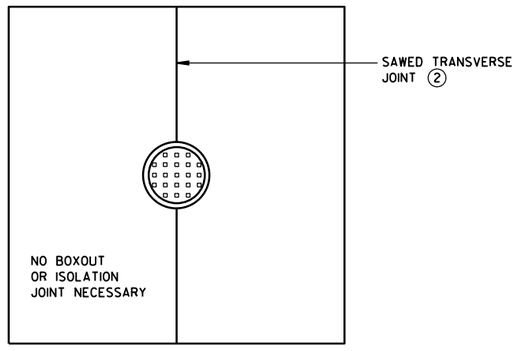
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



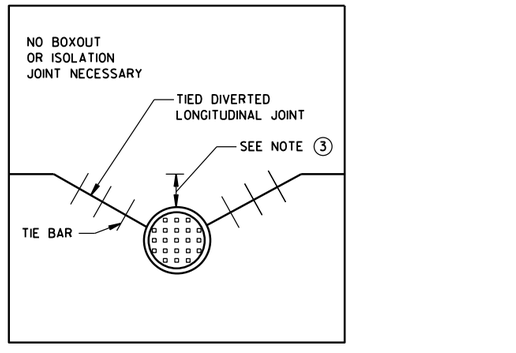
INLET WITH TRANSVERSE JOINT



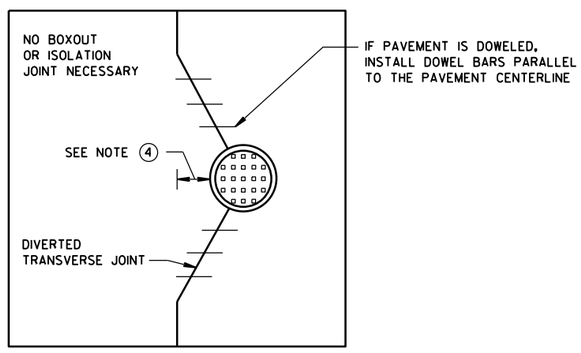
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

(1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.

(2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.

(3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

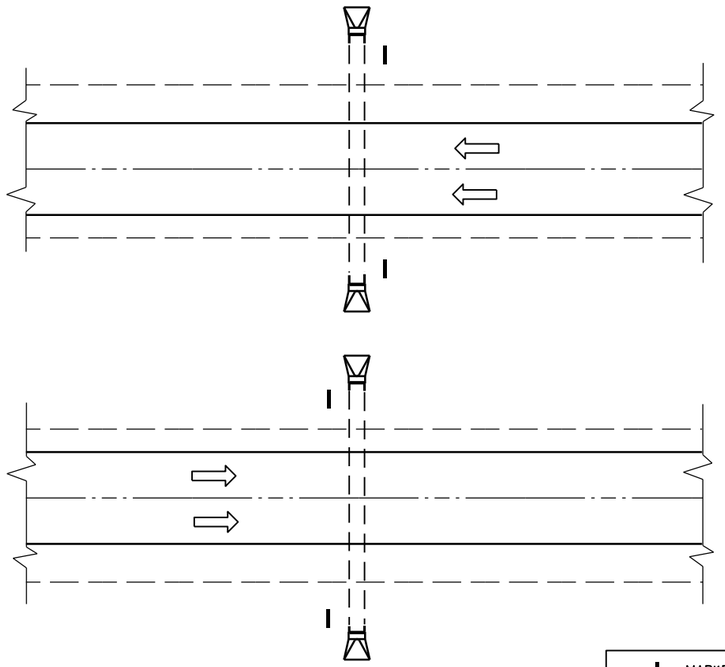
CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

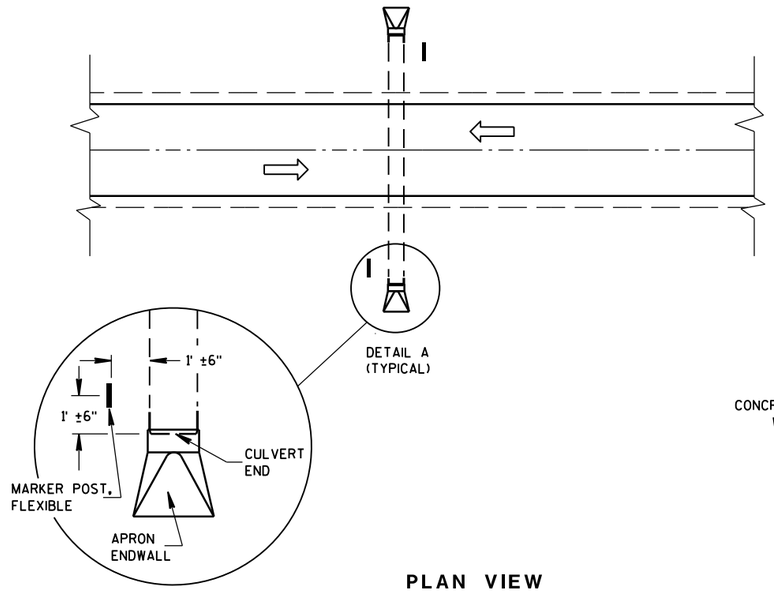
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S.D.D. 13 C 18-3d



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

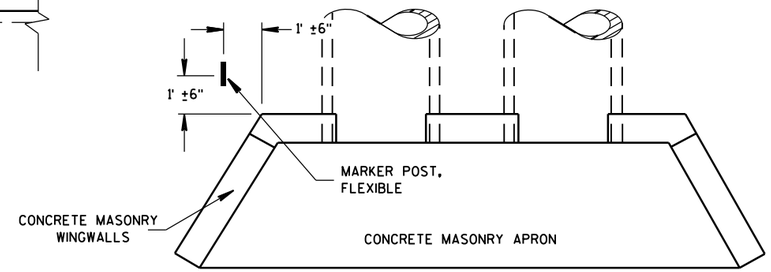
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

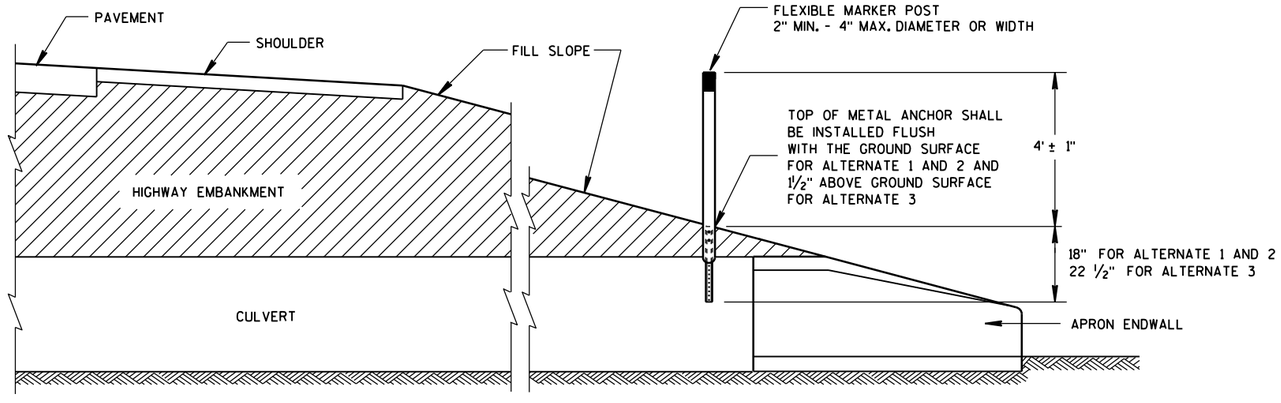
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

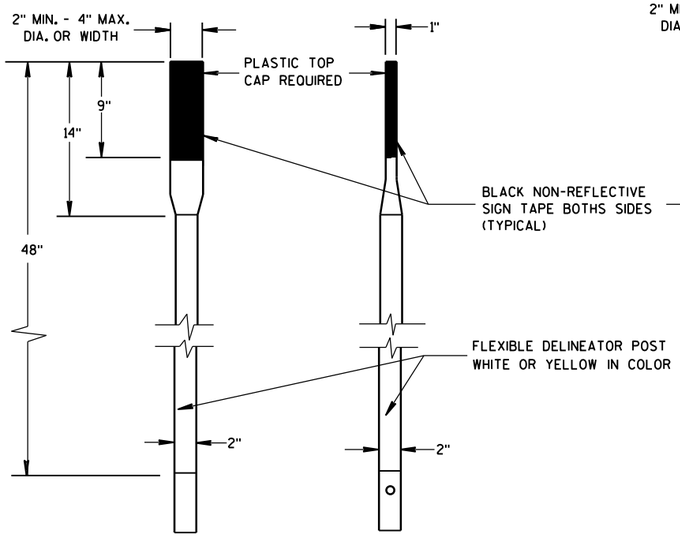
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

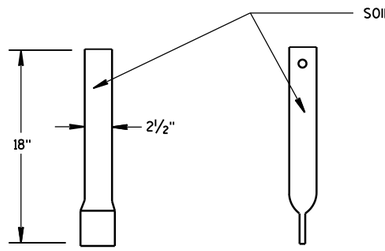
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S.D.D. 15 A 3-2a

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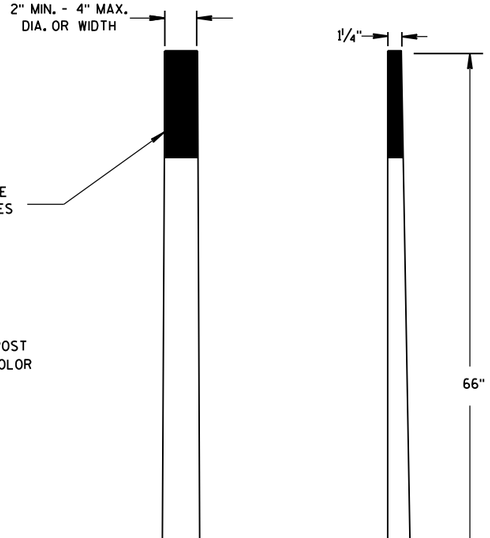
S.D.D. 15 A 3-2a





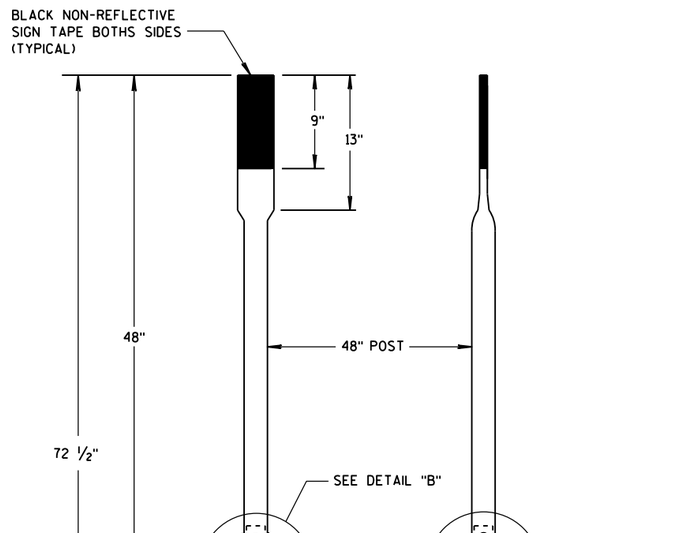
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

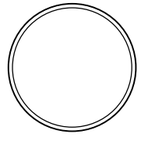
ALTERNATE 2



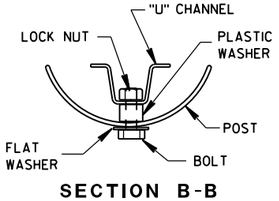
FRONT VIEW SIDE VIEW

ALTERNATE 3

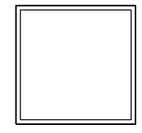
FLEXIBLE MARKER POSTS



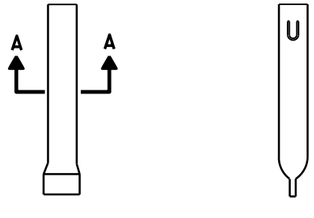
SECTION A-A



SECTION B-B

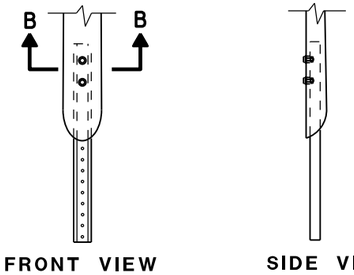


SECTION C-C



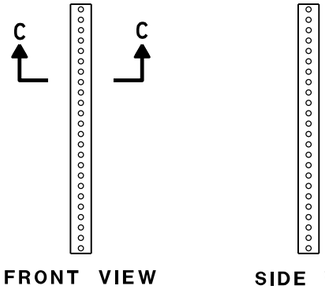
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

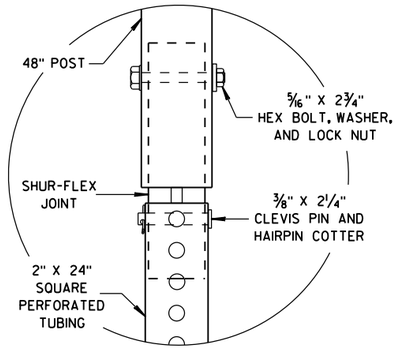
ALTERNATE 2



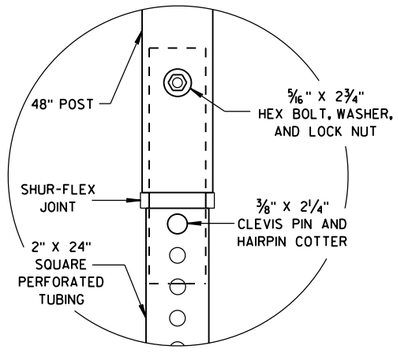
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



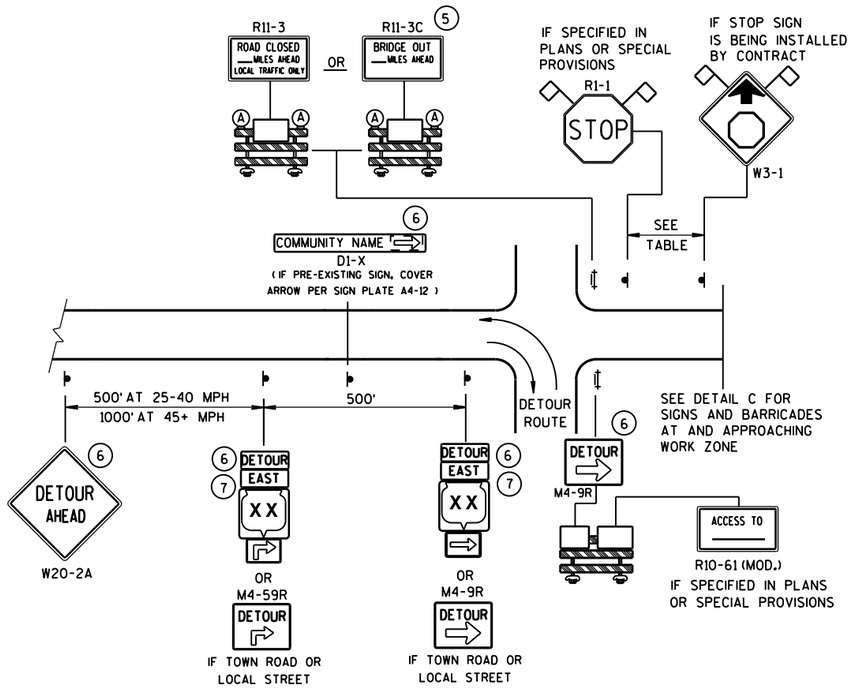
DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

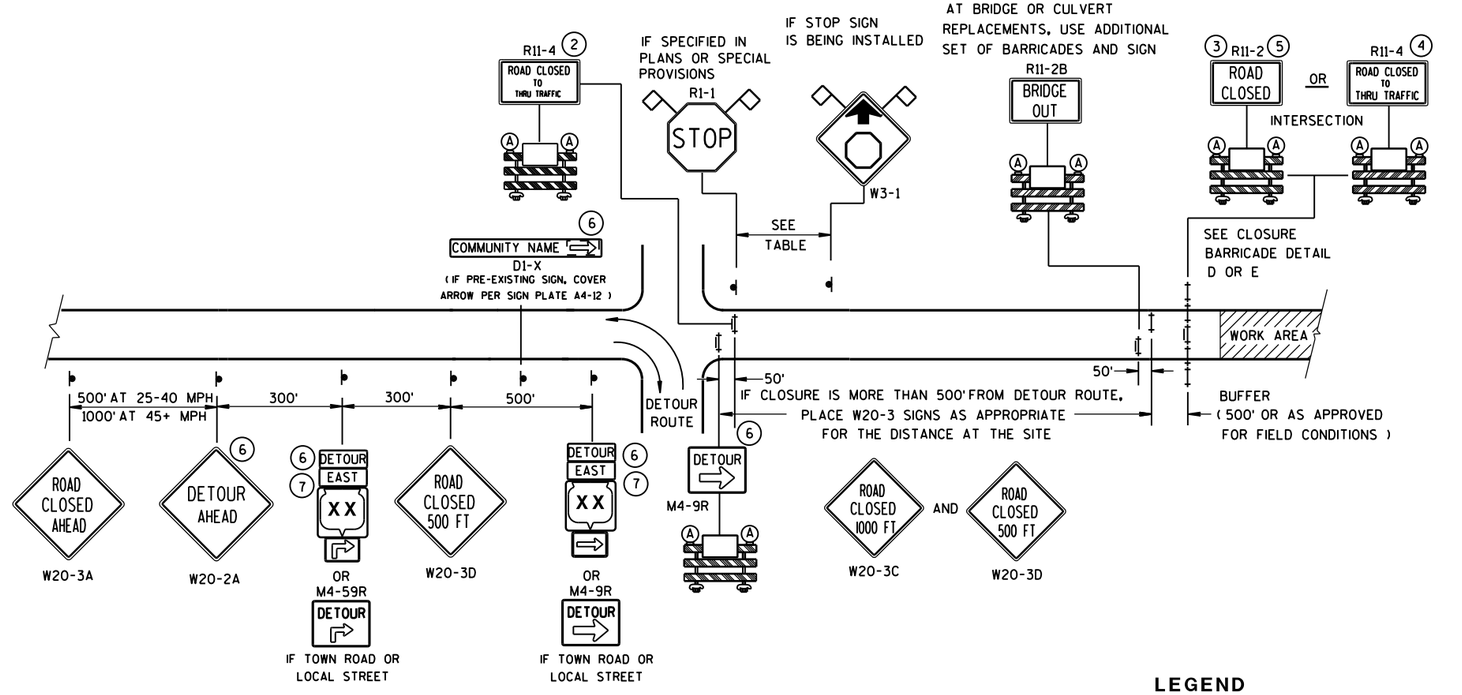
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 15 A 3-2b



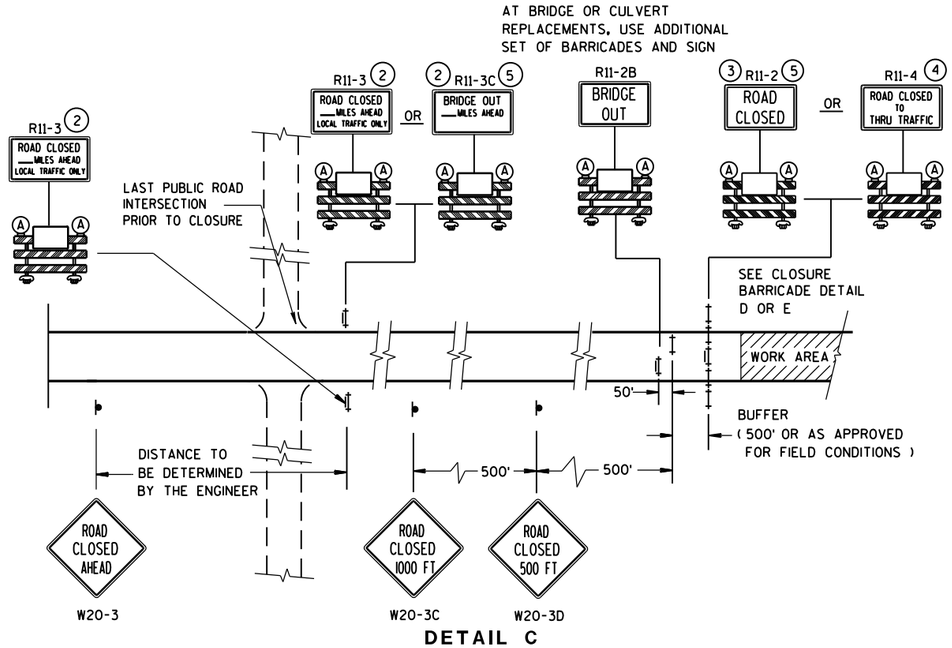
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

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-SHEET "**b**" FOR GENERAL NOTES AND FOOTNOTES (1) THROUGH (7)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- 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

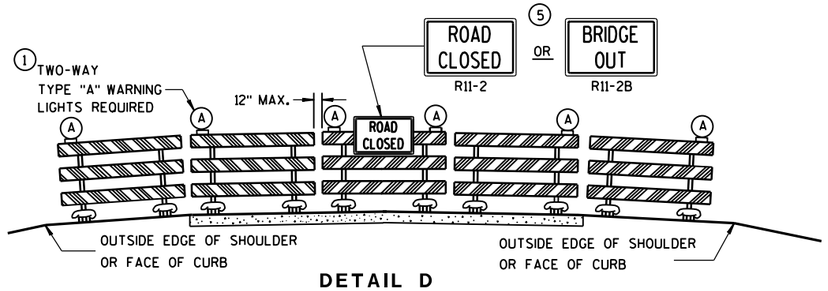
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

S.D.D. 15 C 2-6a

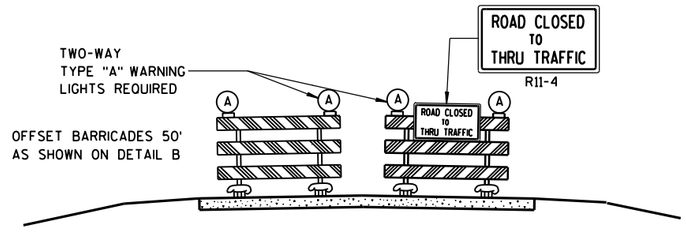
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DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" 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.

"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 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- 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

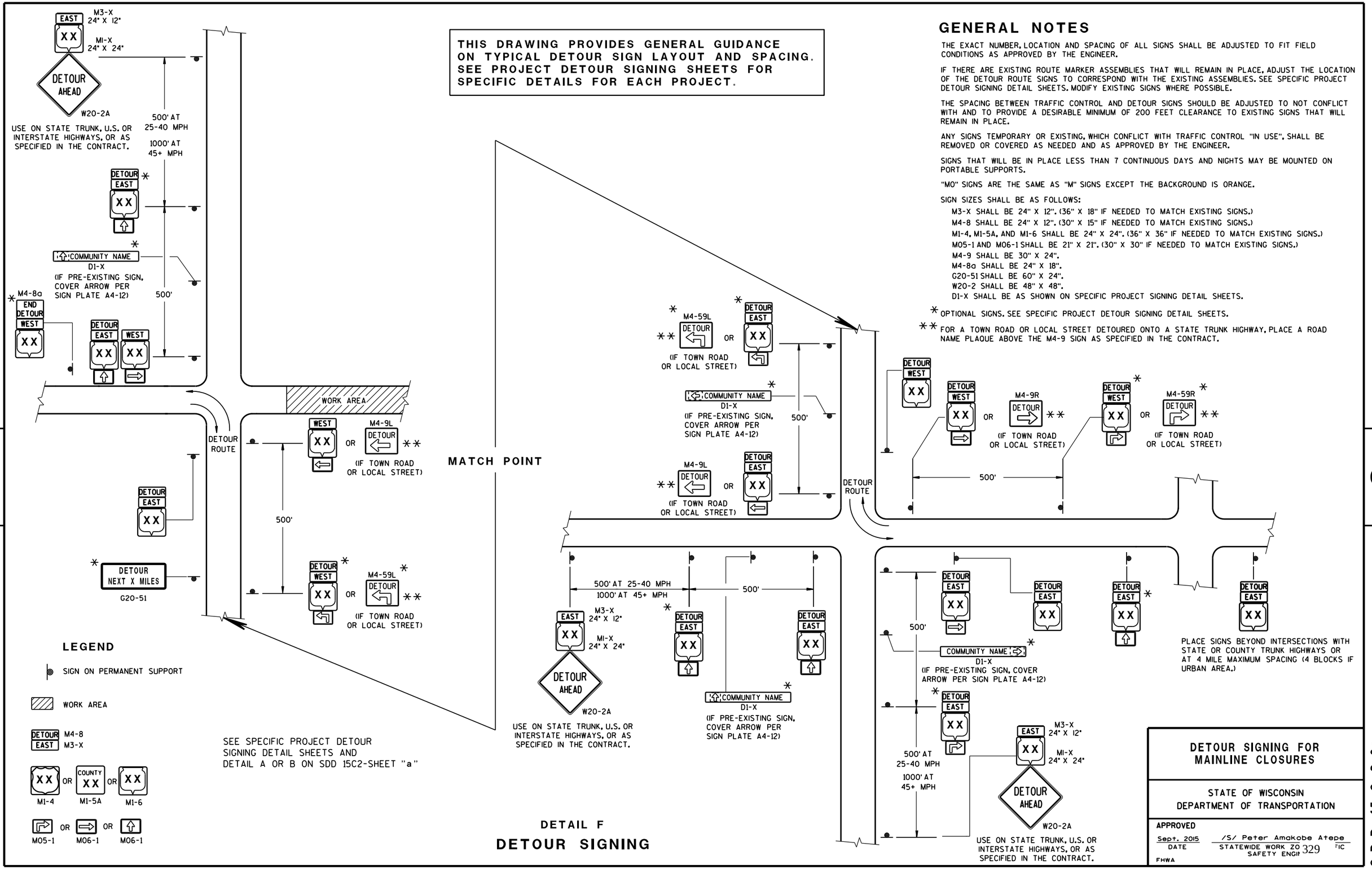
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI — FIC
FHWA

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S.D.D. 15 C 2-6b



GENERAL NOTES

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

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. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- 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.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
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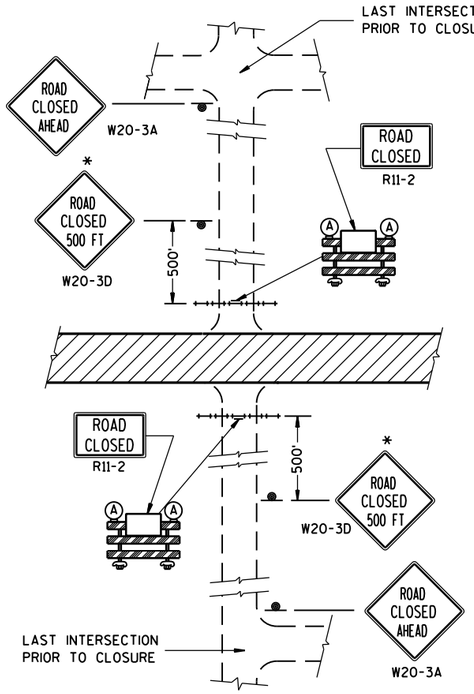
APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI...

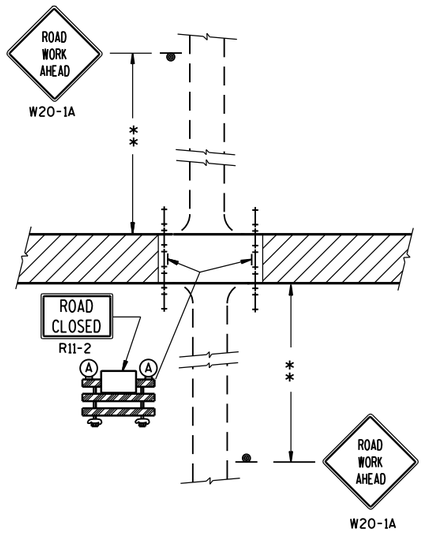
FHWA

S.D.D. 15 C 2-6c



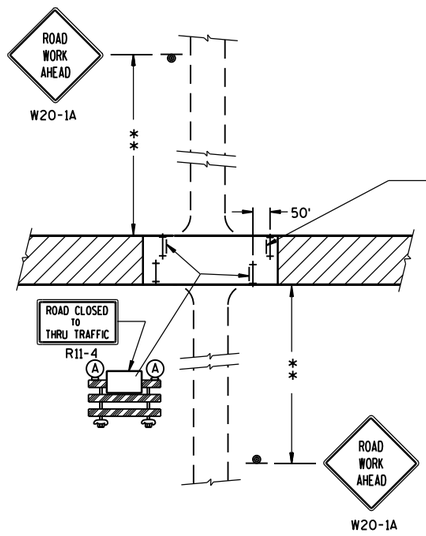
DETAIL 1

(NO ACCESS TO PROJECT)



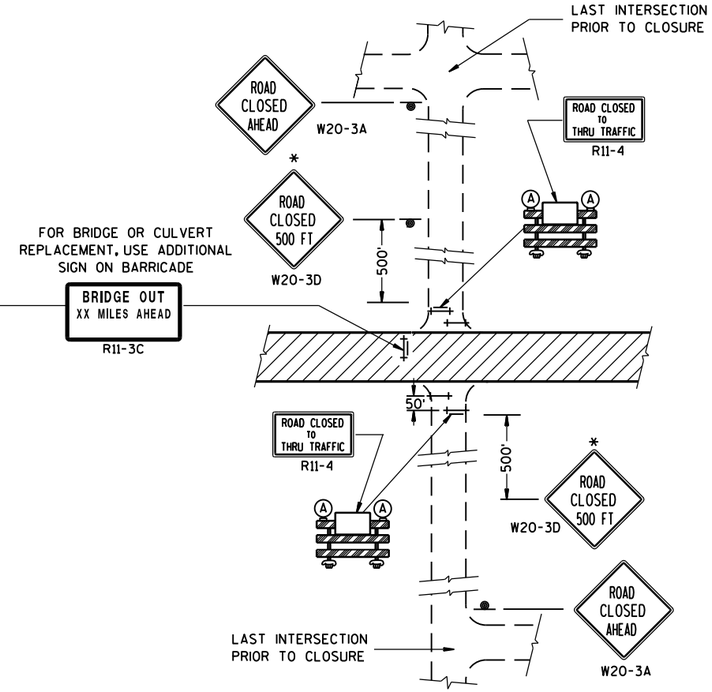
DETAIL 2

(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.

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

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

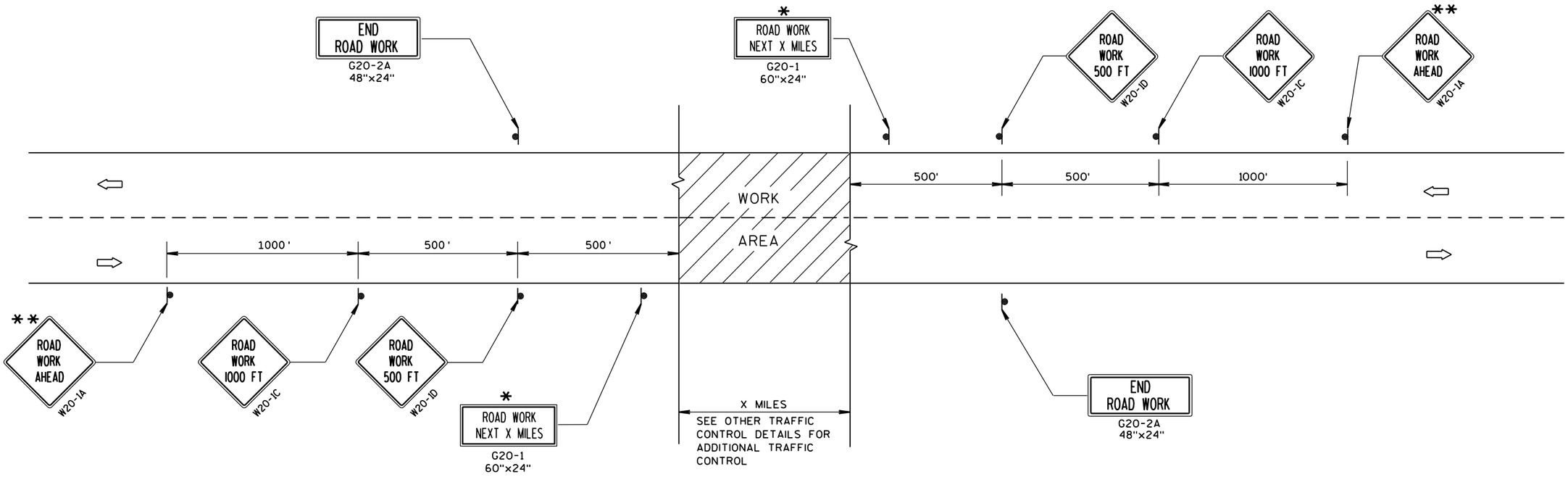
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO... SAFETY ENGI... — FHWA

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S.D.D. 15 C 3-3

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



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.

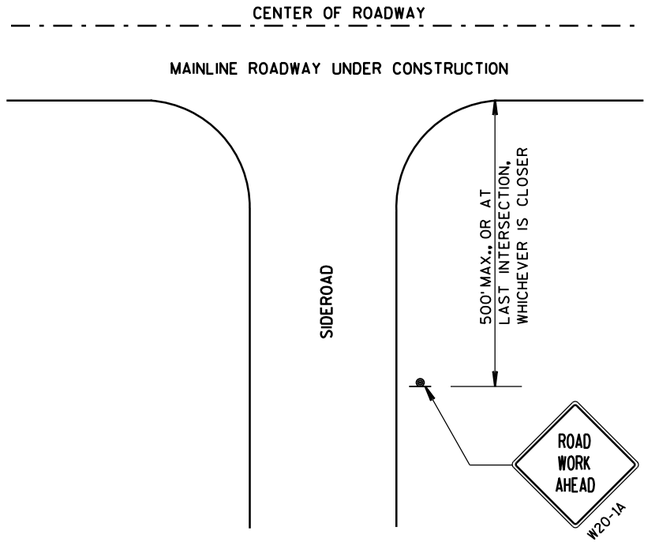
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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 W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

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

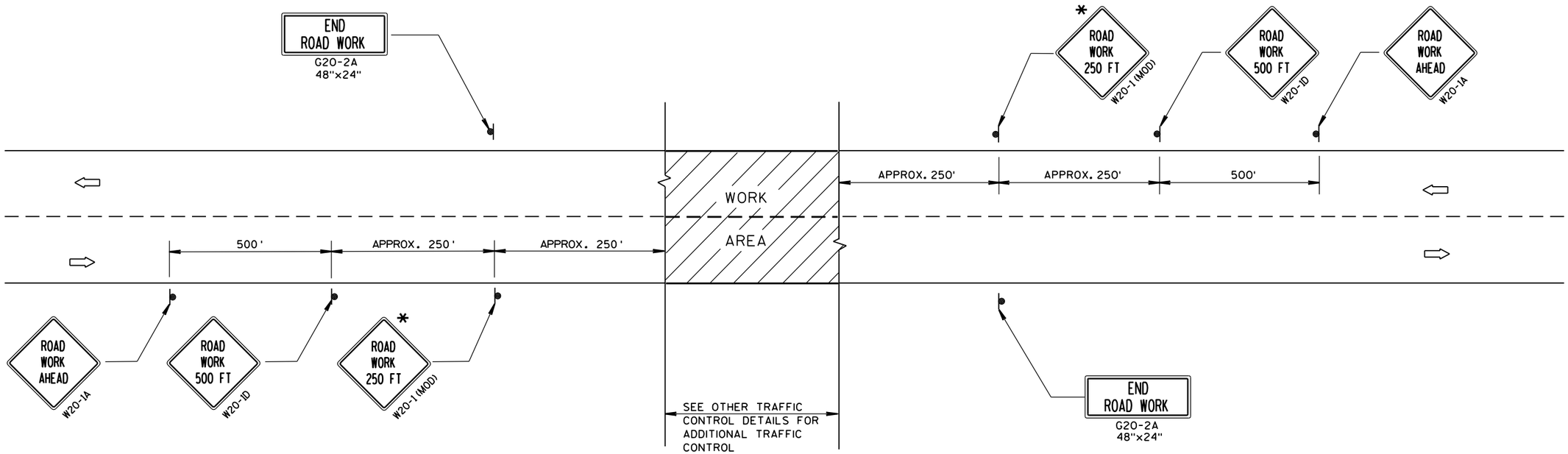
Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE SAFETY ENGINEER

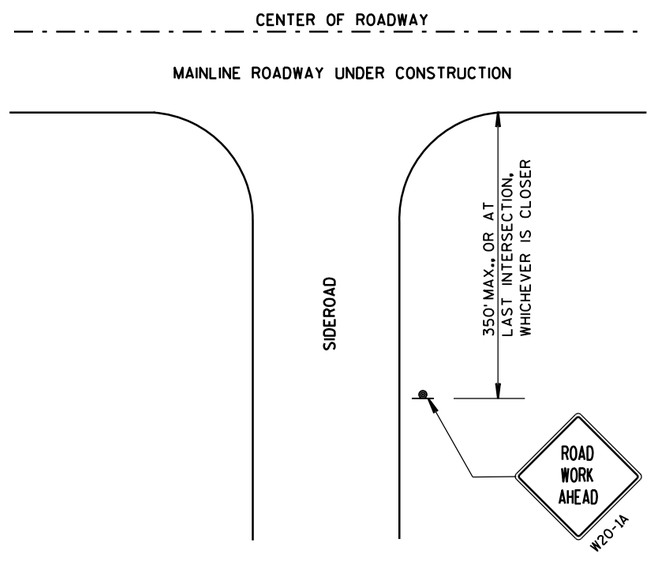
FHWA

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S.D.D. 15 C 4-3



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



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.

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.

LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

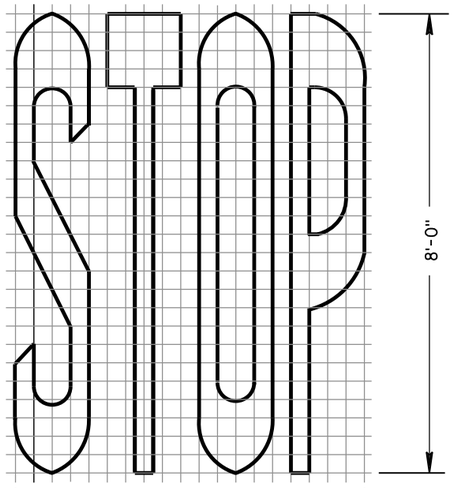
APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

6

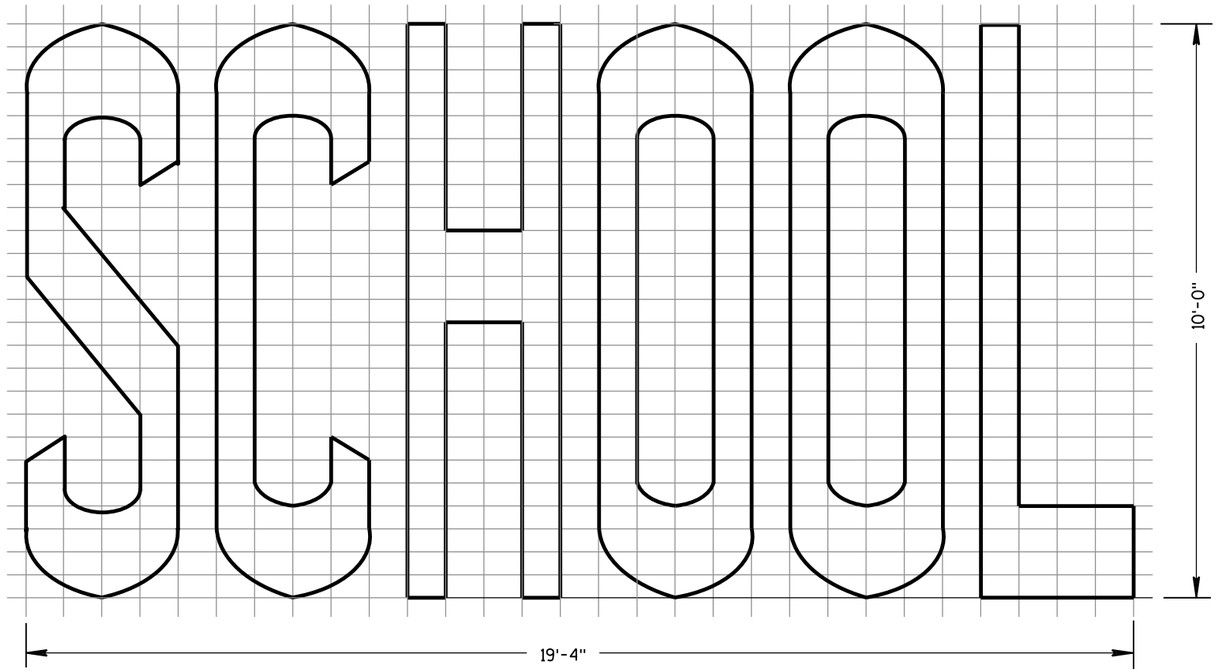
S.D.D. 15 C 5-3

GENERAL NOTES

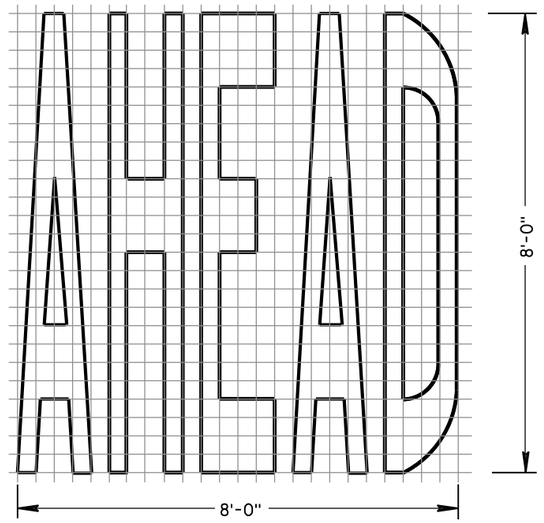
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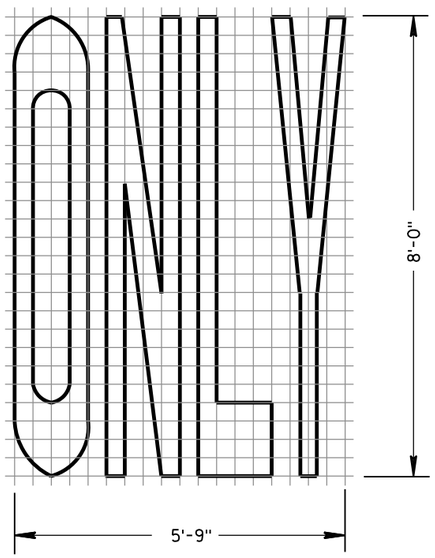


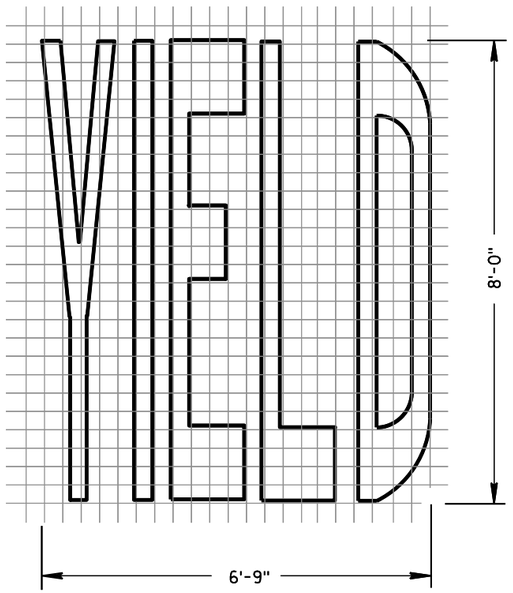


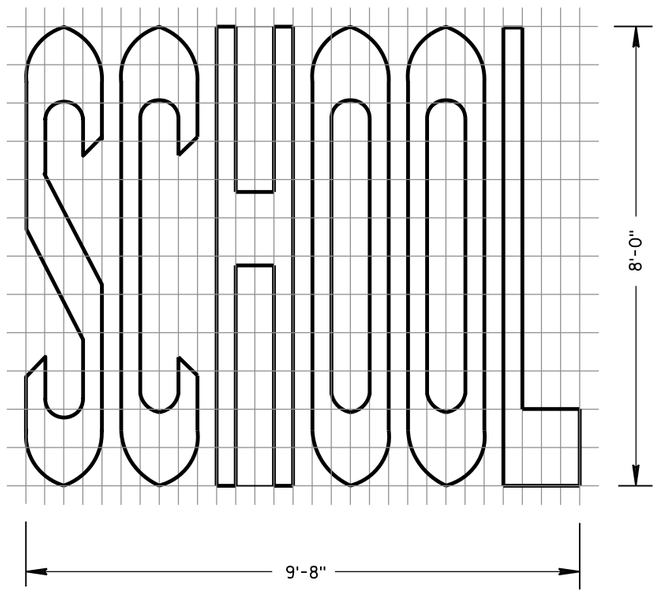


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
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APPROVED

4-18-16	/S/ Matthew R. Rauch	
DATE	STATE SIGNING AND MARK	EER

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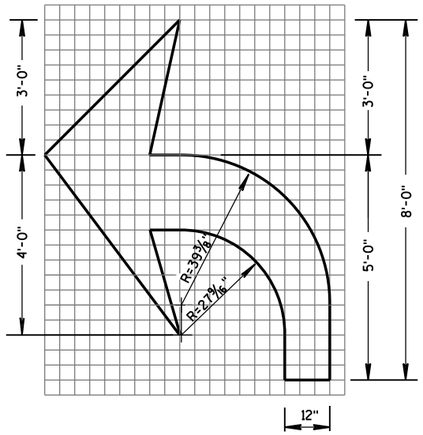
S.D.D. 15 C 7-13b

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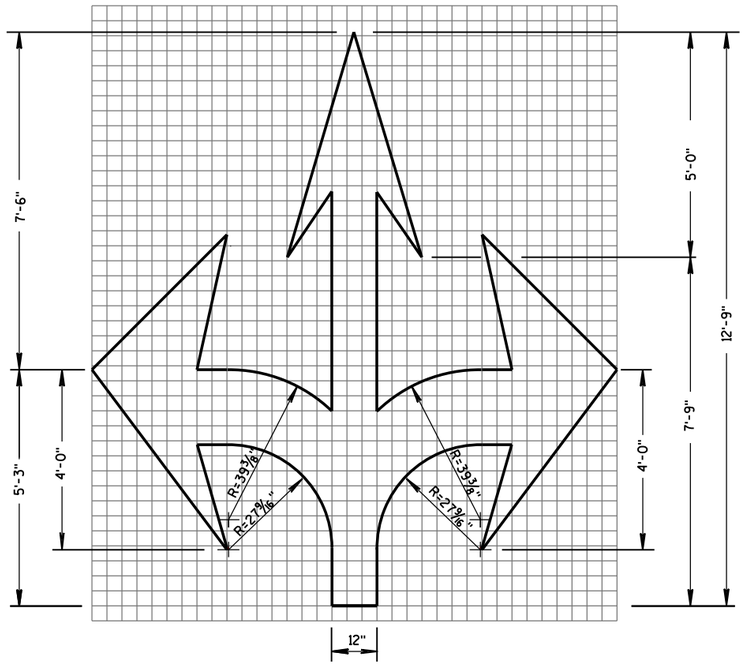
S.D.D. 15 C 7-13b

GENERAL NOTES

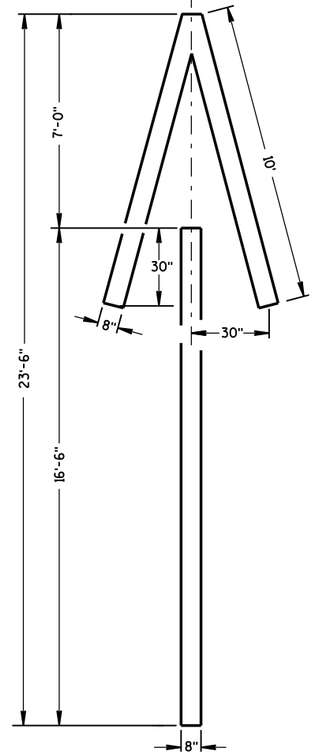
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



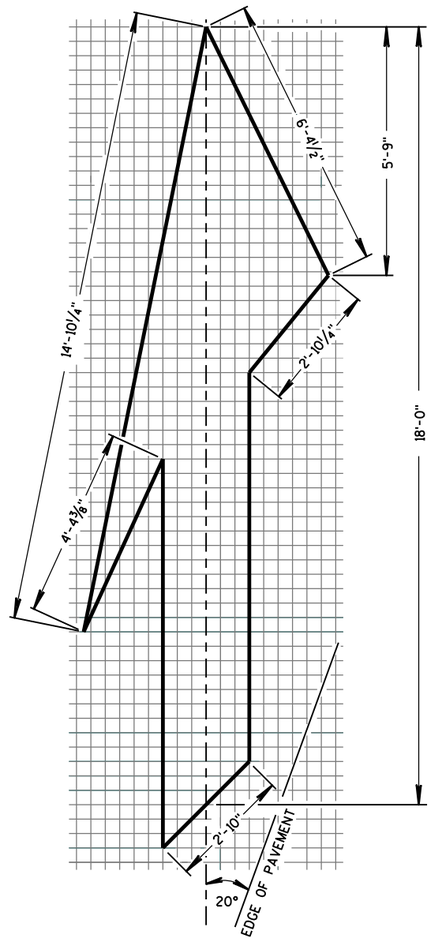
TYPE 2



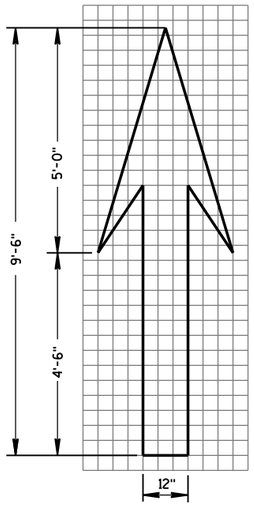
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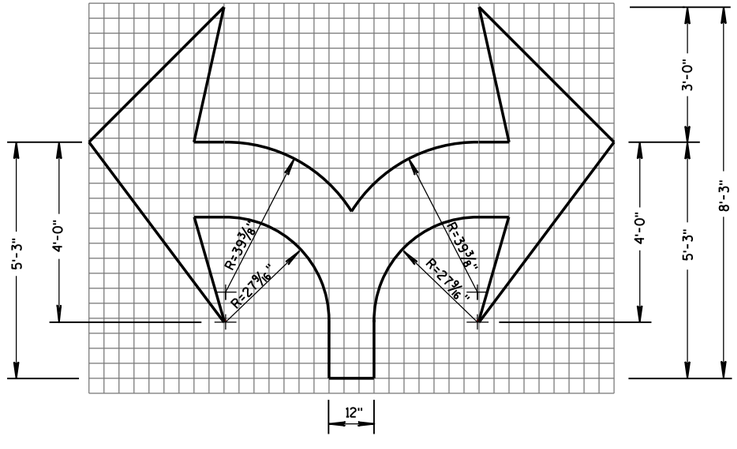
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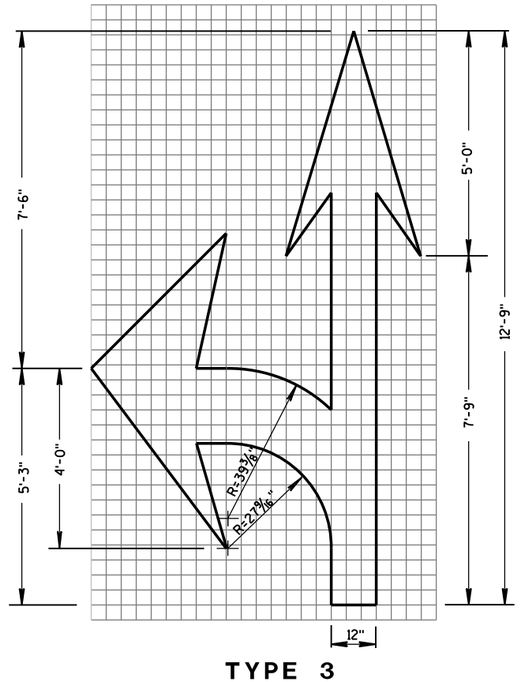
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

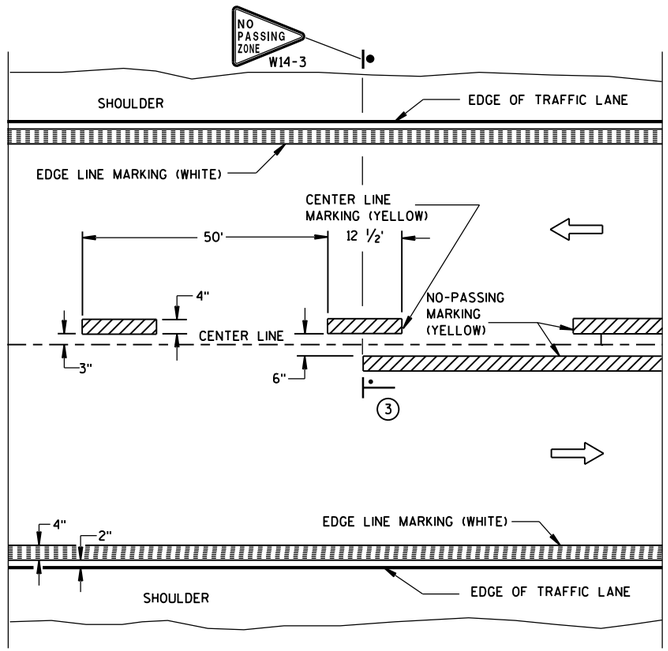
APPROVED
4-18-16 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER
FHWA

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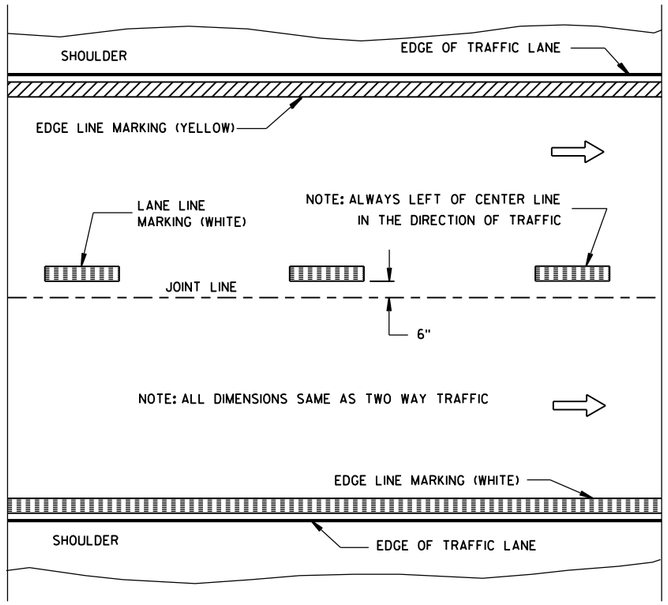
S.D.D. 15 C 7-13c

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S.D.D. 15 C 7-13c

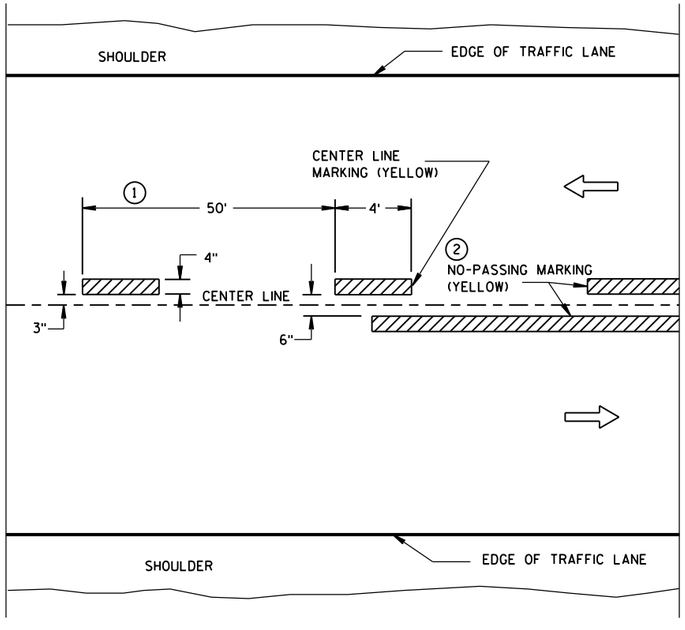


TWO WAY TRAFFIC

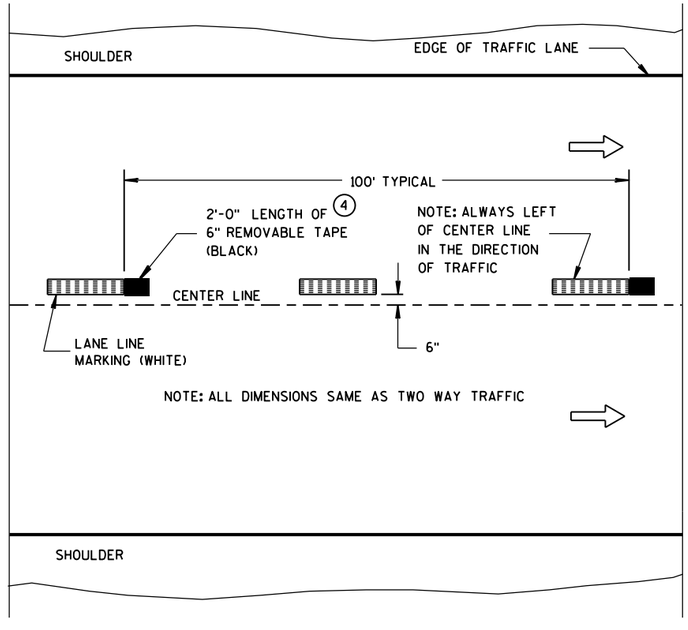


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

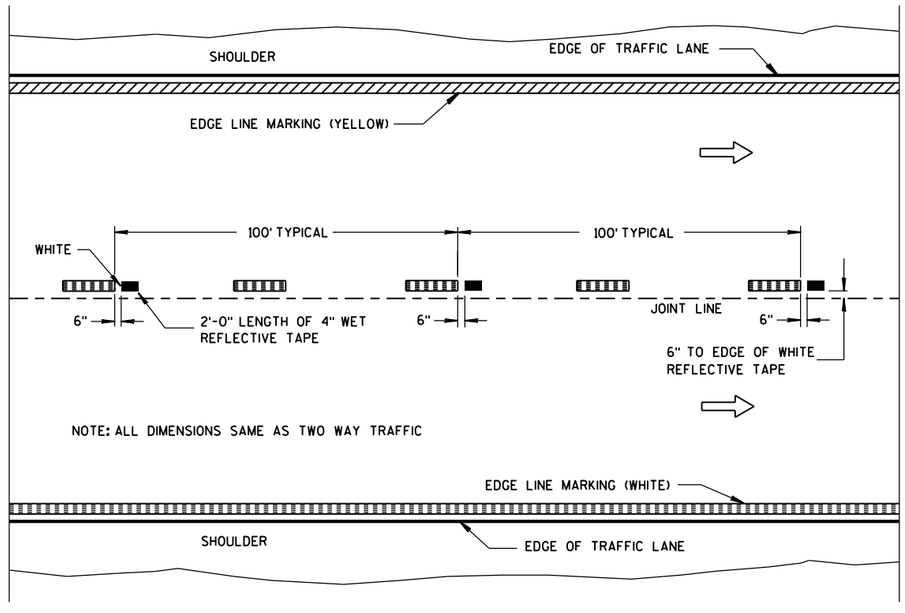
GENERAL NOTES

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.
4. CONCRETE ONLY.

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)

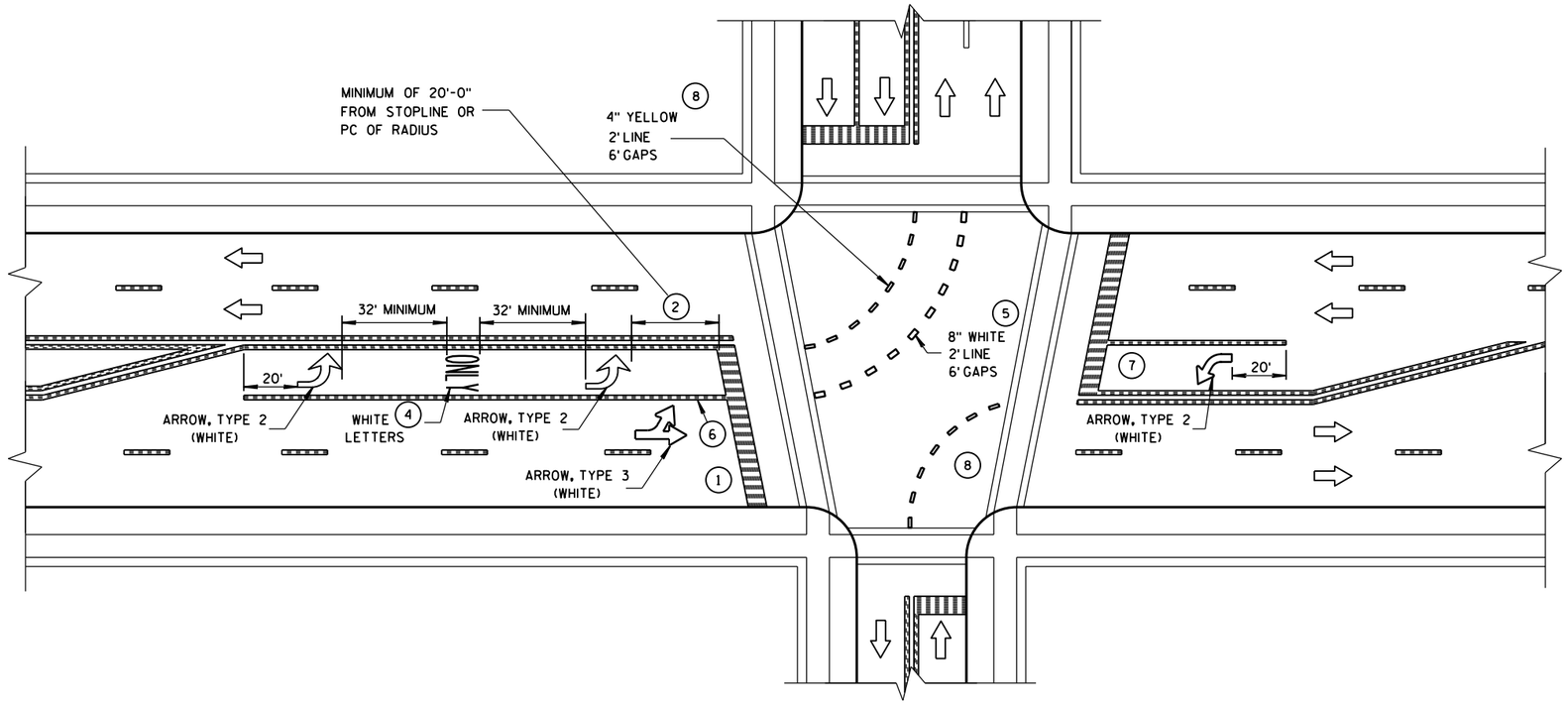
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5-13-2013 DATE
/S/ Travis Feltes STATE TRAFFIC E
FHWA

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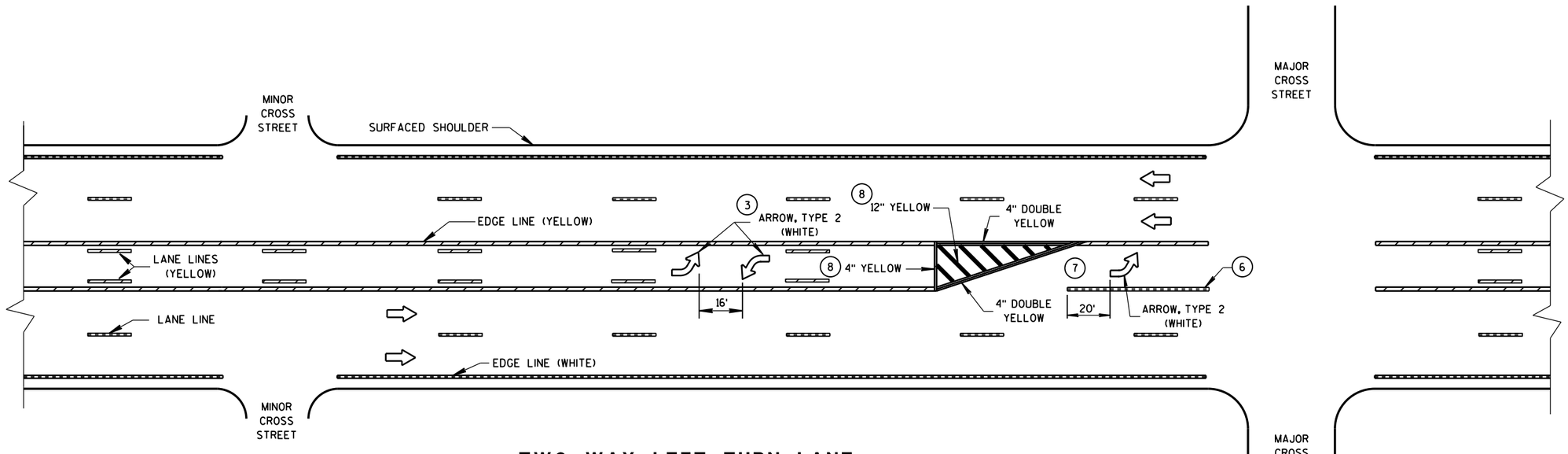
S.D.D. 15 C 8-16a



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 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET 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 FEET.
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)

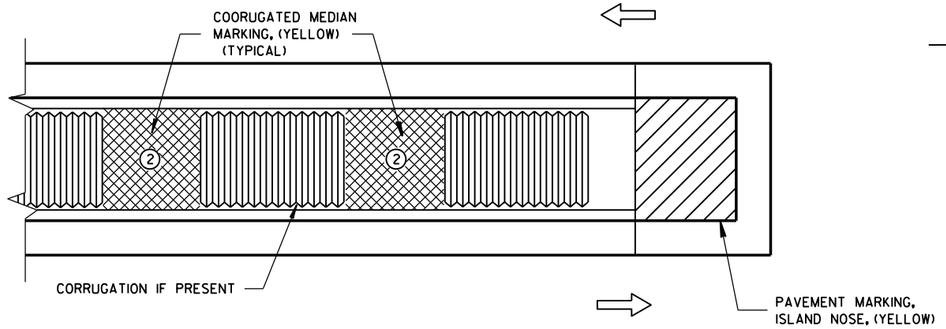
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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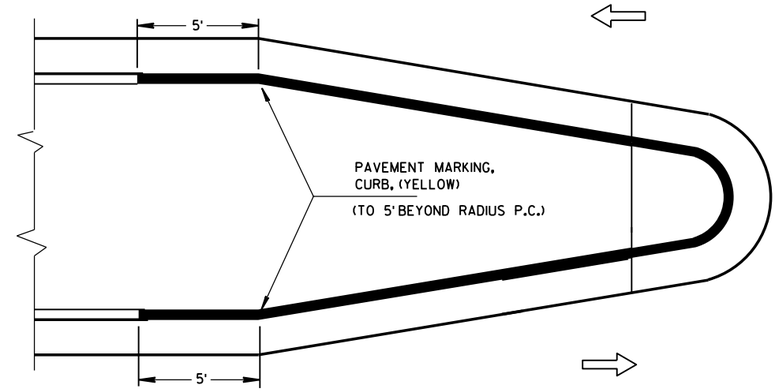
S.D.D. 15 C 8-16e

6

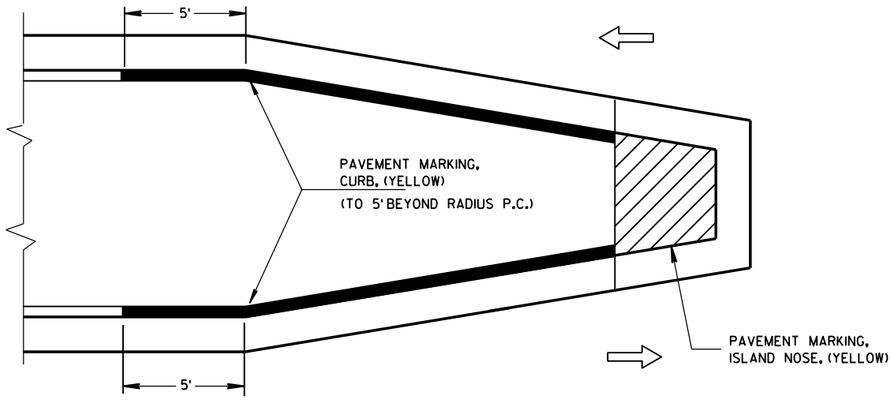
S.D.D. 15 C 8-16e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

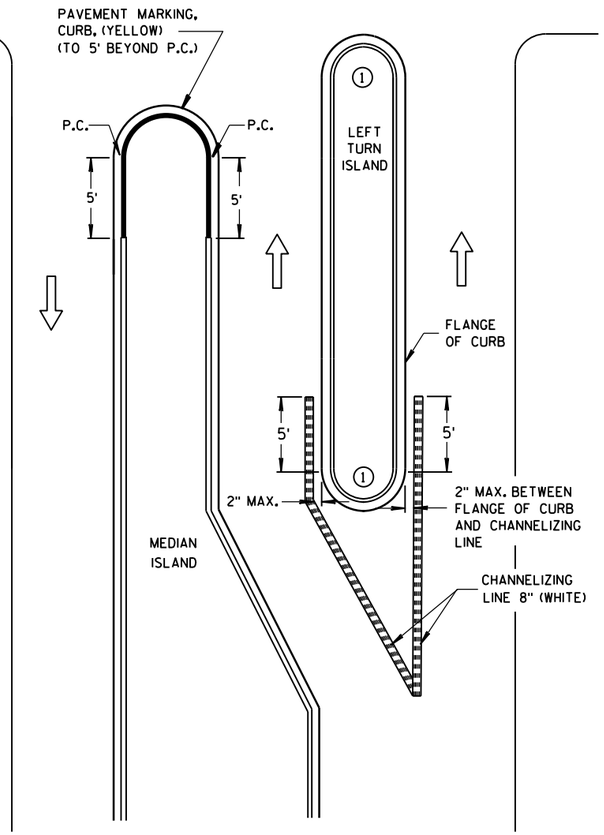


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

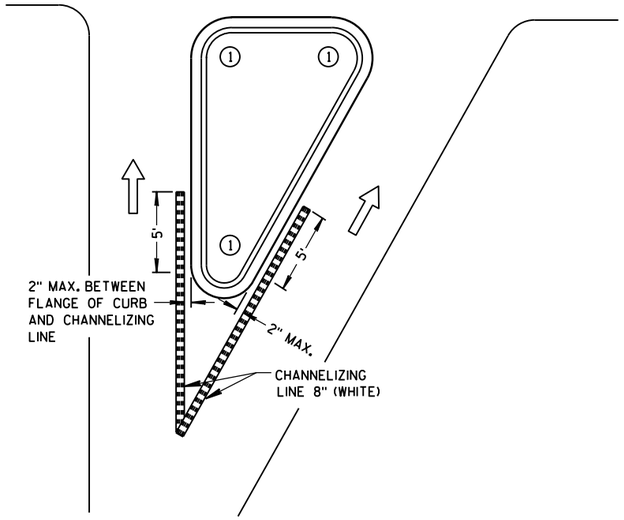


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. 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

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

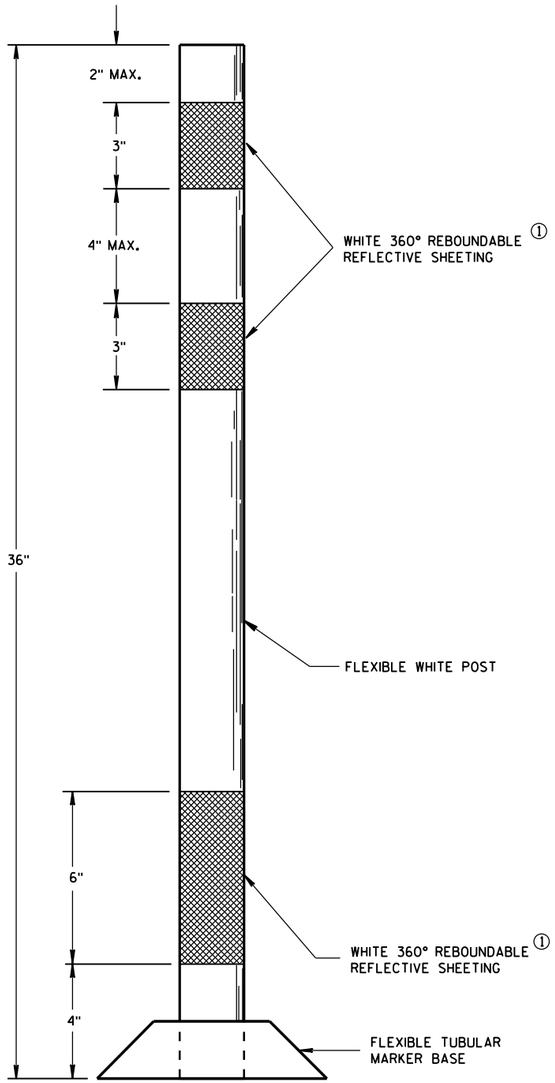
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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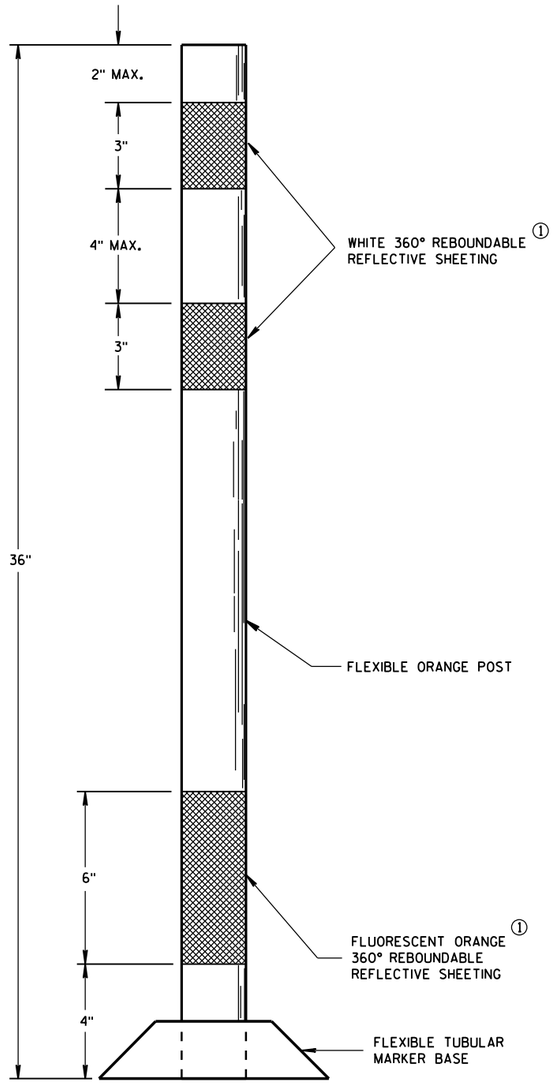
S.D.D. 15 C 8-16f

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S.D.D. 15 C 8-16f



FLEXIBLE
TUBULAR MARKER POST
PERMANENT CROSSOVER



FLEXIBLE
TUBULAR MARKER POST
WORK ZONE

GENERAL NOTES

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

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-16-2015
DATE
FHWA

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZON
SAFETY ENGINE

6

S.D.D. 15 C 11-6

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

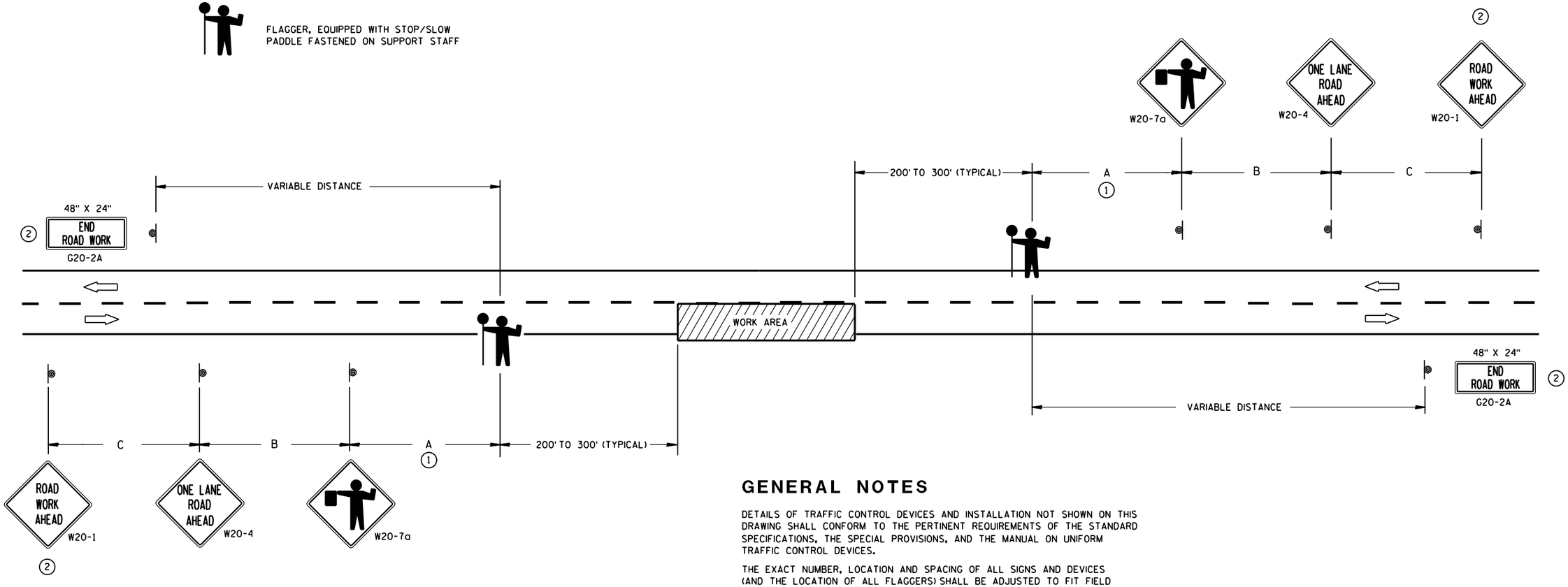
SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



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, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

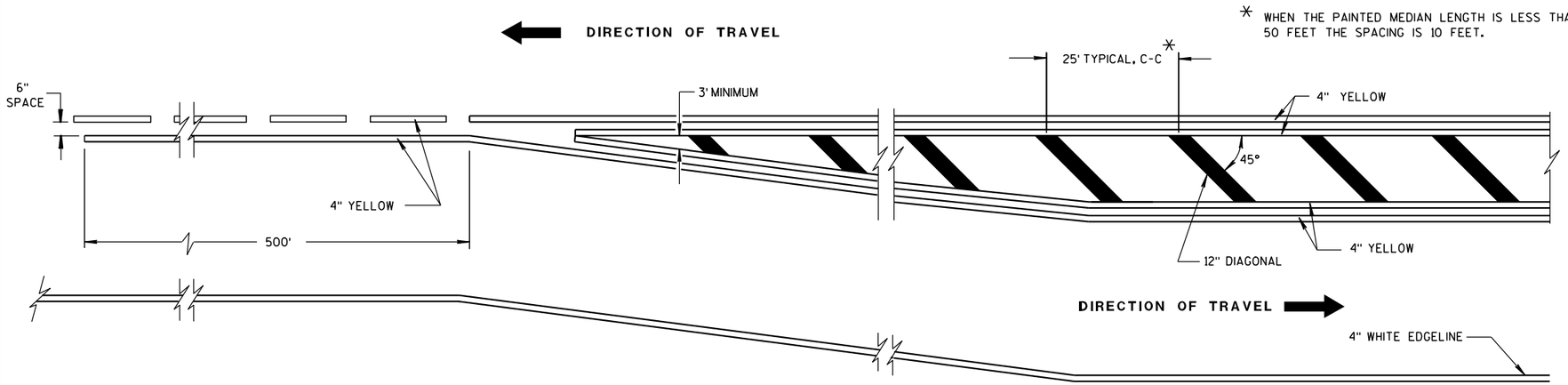
APPROVED
8/2013
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
DESIGN
FHWA

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S.D.D. 15 C 12-4

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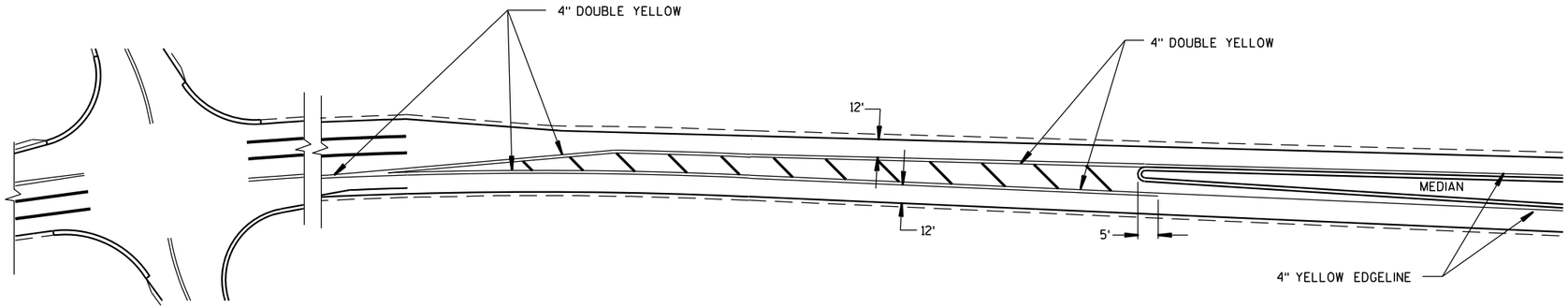
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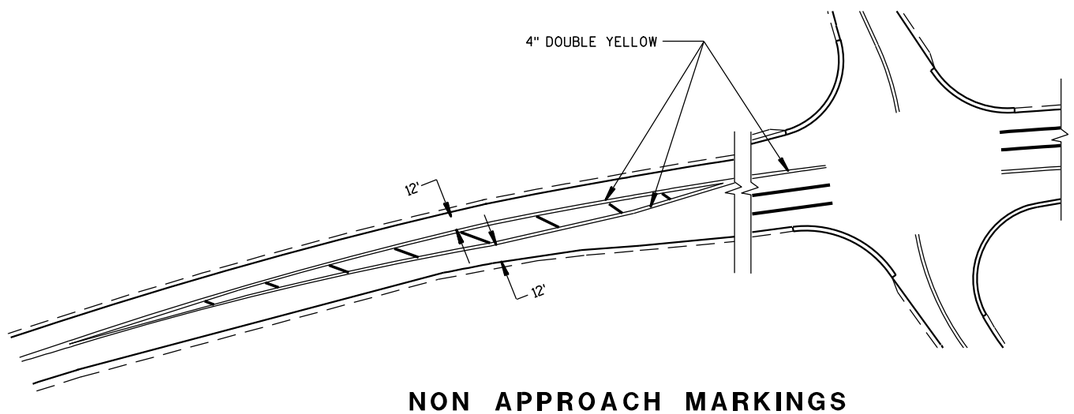
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER 340 IGN
FHWA	

6

S.D.D. 15 C 18-3

6

S.D.D. 15 C 18-3

GENERAL NOTES

SIGNING AND MARKING IS SHOWN AS TYPICAL PLACEMENT. FIELD CONDITIONS MAY DICTATE CHANGES IN SIGNING AND MARKING PLACEMENT.

A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

(1) WRONG WAY PREVENTION SIGNS ARE DISCUSSED IN T G M 2-15-12

(2) USED ONLY WHEN APPROVED BY REGION TRAFFIC ENGINEER.

SYMBOLS

* SIGNS MAY BE OMITTED IF SPACE DOES NOT PERMIT

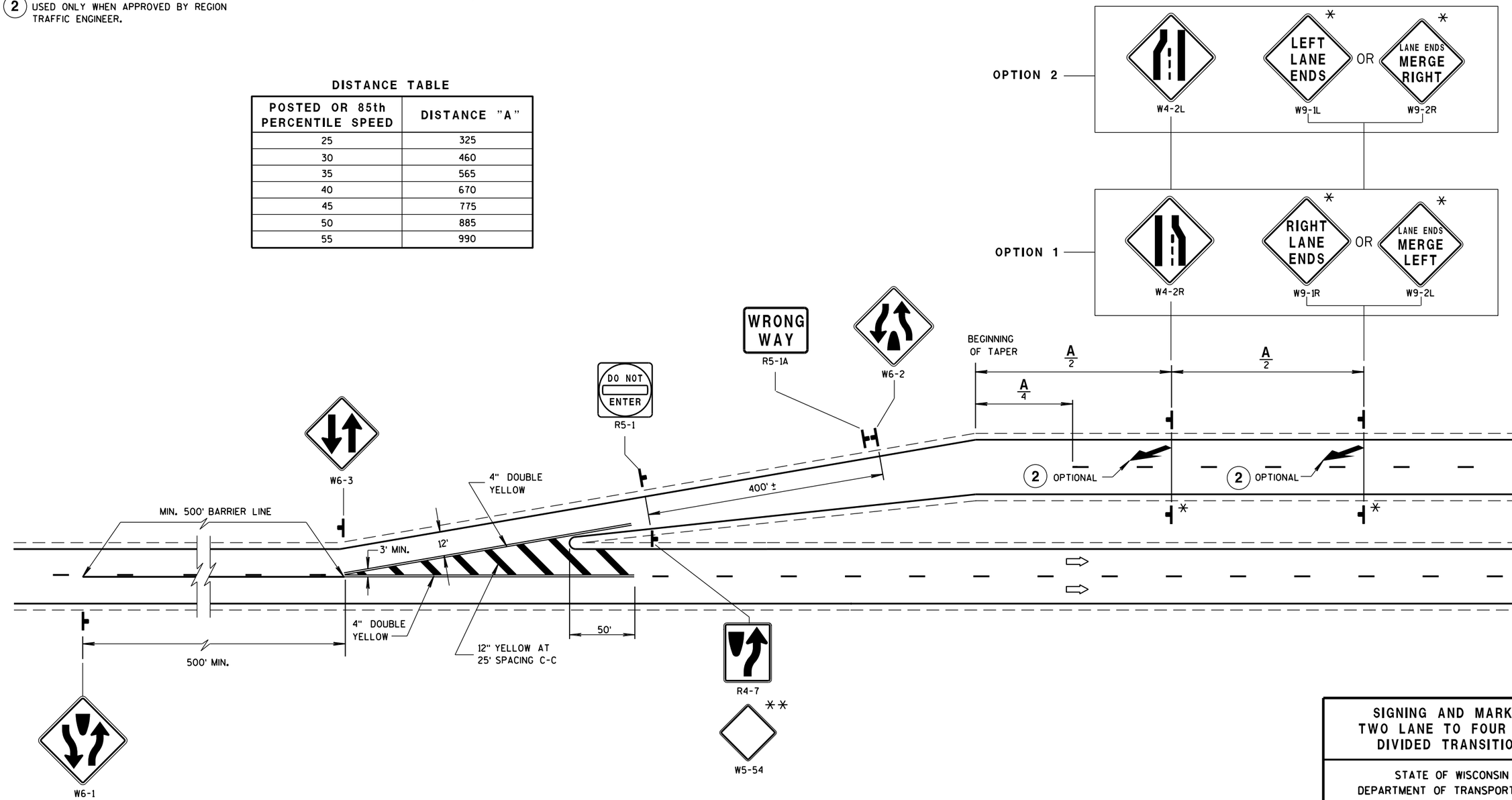
** IF POSTED SPEED 45 MPH OR GREATER, PLACE W5-54 SIGN UNDER R4-7 SIGN. MOUNT W5-54 SIGN AT 4' MOUNTING HEIGHT (TOP OF ROADWAY TO BOTTOM OF SIGN)

POST MOUNTED SIGN

DIRECTION OF TRAFFIC FLOW

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	325
30	460
35	565
40	670
45	775
50	885
55	990



SIGNING AND MARKING TWO LANE TO FOUR LANE DIVIDED TRANSITIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-18-2016 DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER
FHWA

6

S.D.D. 15 C 21-7

GENERAL NOTES

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR ROD STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER FABRICATION DRAWING.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

SIGN SUPPORTS SHALL BE LOCATED NORMAL TO ROADWAY.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

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

BAR CAGE TO BE ASSEMBLED USING TIE WIRES ONLY, NO WELDING.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACK FILLING AROUND THE BASE. ANY REQUIRED BACKFILL SHALL BE WELL COMPACTED IN LAYERS OF 1 FOOT OR LESS. COMPACTION SHALL BE BY MECHANICAL MEANS. CARE SHALL BE TAKEN SO NO DAMAGE OCCURS TO THE CONCRETE BASE DURING COMPACTION.

EXCAVATION OF MATERIALS NOT OCCUPIED BY CONCRETE SHALL BE MINIMIZED TO REDUCE DISTURBANCE OF THE SURROUNDING SOILS.

THE BOTTOM OF THE DRILLED HOLE SHALL BE FIRM AND THOROUGHLY CLEANED SO NO LOOSE OR COMPRESSIBLE MATERIALS ARE PRESENT AT THE TIME OF THE CONCRETE PLACEMENT.

IF THE DRILLED HOLE CONTAINS STANDING WATER, THE CONCRETE SHALL BE PLACED USING A TREMIE TO DISPLACE THE WATER.

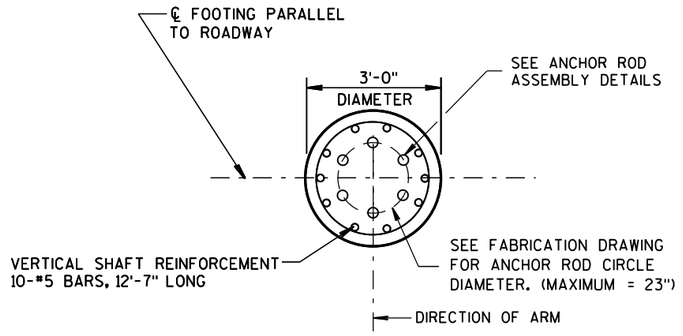
THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

FORM ALL EXPOSED CONCRETE CORNERS WITH ¾" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

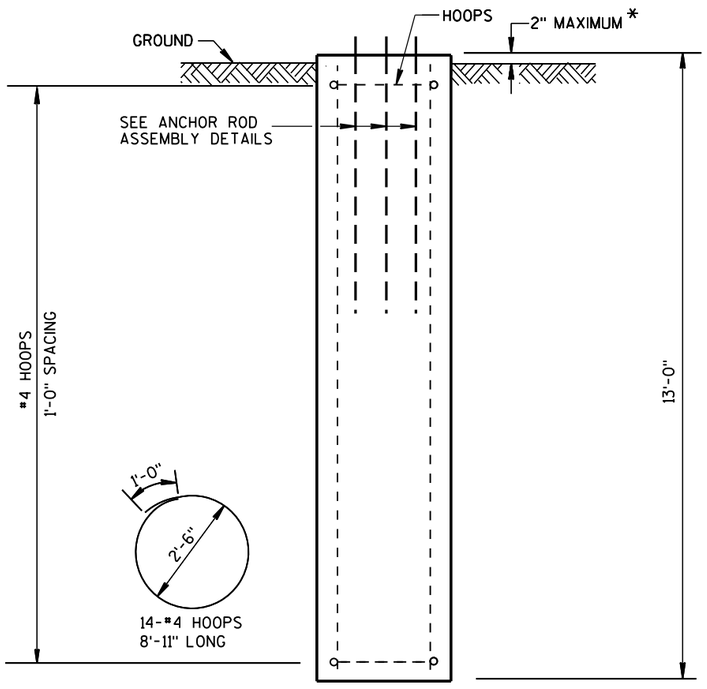
ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR RODS, ASTM F1554, GRADE 55	fy=55,000 p.s.i.
ASTM A563A HEAVY HEX NUTS, AND ASTM F436 WASHERS.	
PLATES, ASTM A709, GRADE 36	fy=36,000 p.s.i.

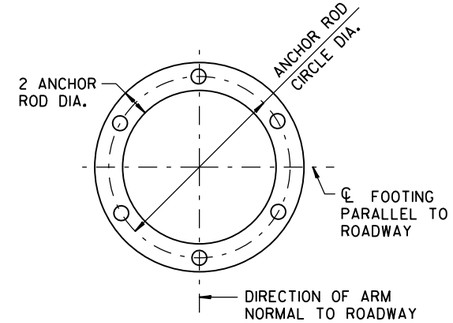
THIS FOOTING HAS BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 20 DEGREES (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 350 PSF (COHESIVE SOILS).



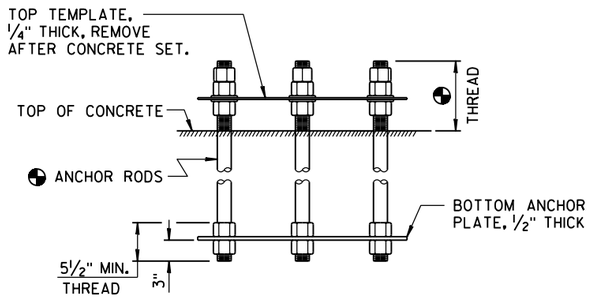
PLAN VIEW



ELEVATION VIEW



TOP TEMPLATE AND BOTTOM ANCHOR PLATE



ANCHOR ROD ASSEMBLY DETAILS

⊕ MINIMUM OF 6 ANCHOR RODS, EXACT NUMBER, SIZE, DIMENSION AND ORIENTATION AS SHOWN ON FABRICATION DRAWING.

* FOR OVERHEAD SIGN SUPPORTS THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE BASE SHALL BE POURED FLUSH WITH THE GROUND.

CONCRETE - 3.4 C.Y. PER FOOTING
H.S. REINFORCEMENT - 215 LBS. PER FOOTING

36" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Vu Thao — WIND LOADED STRU PROGRAM LEAD
FHWA

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S.D.D. 15 C 24-4

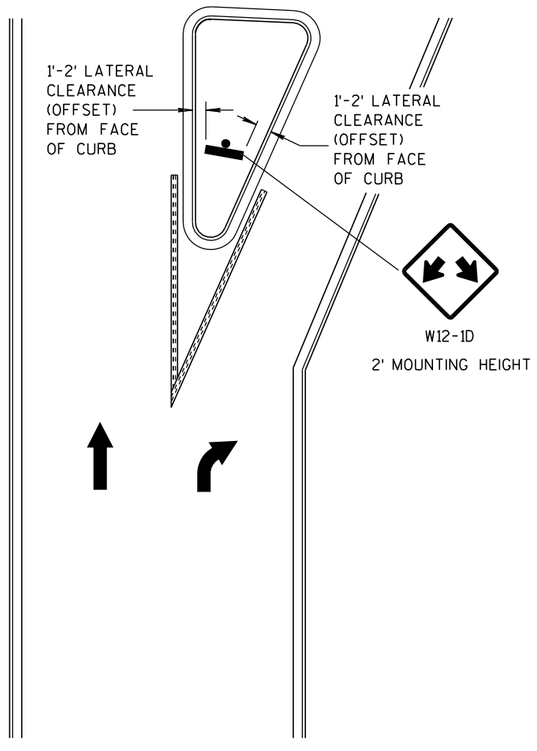
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S.D.D. 15 C 24-4

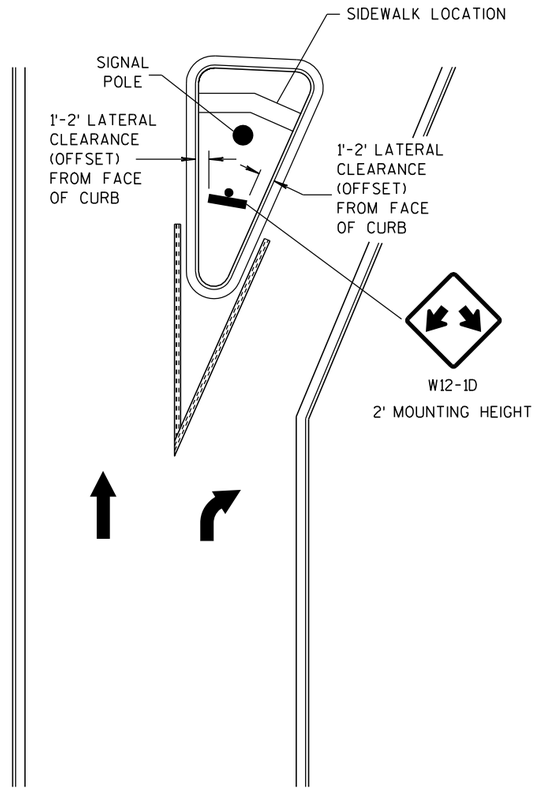
GENERAL NOTE

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

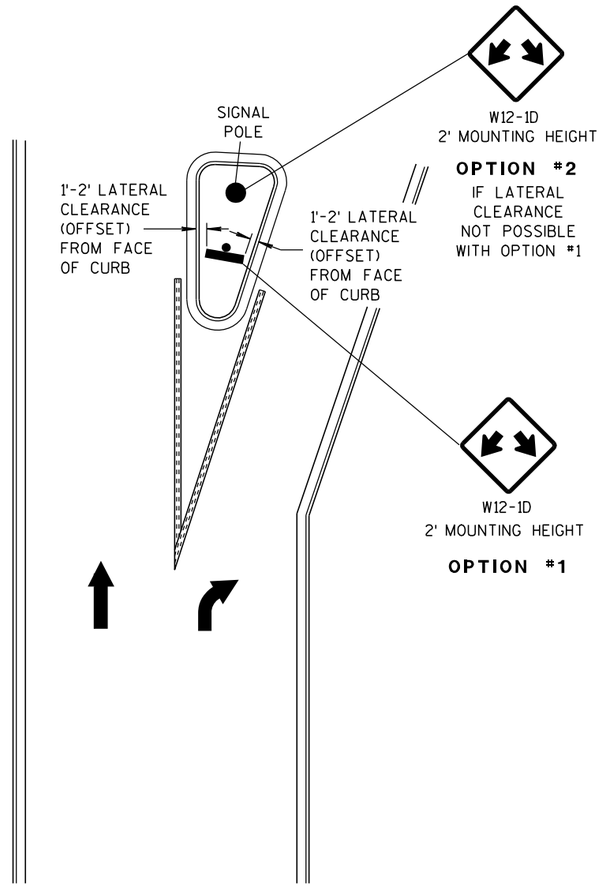
SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.



LARGE RIGHT TURN ISLAND



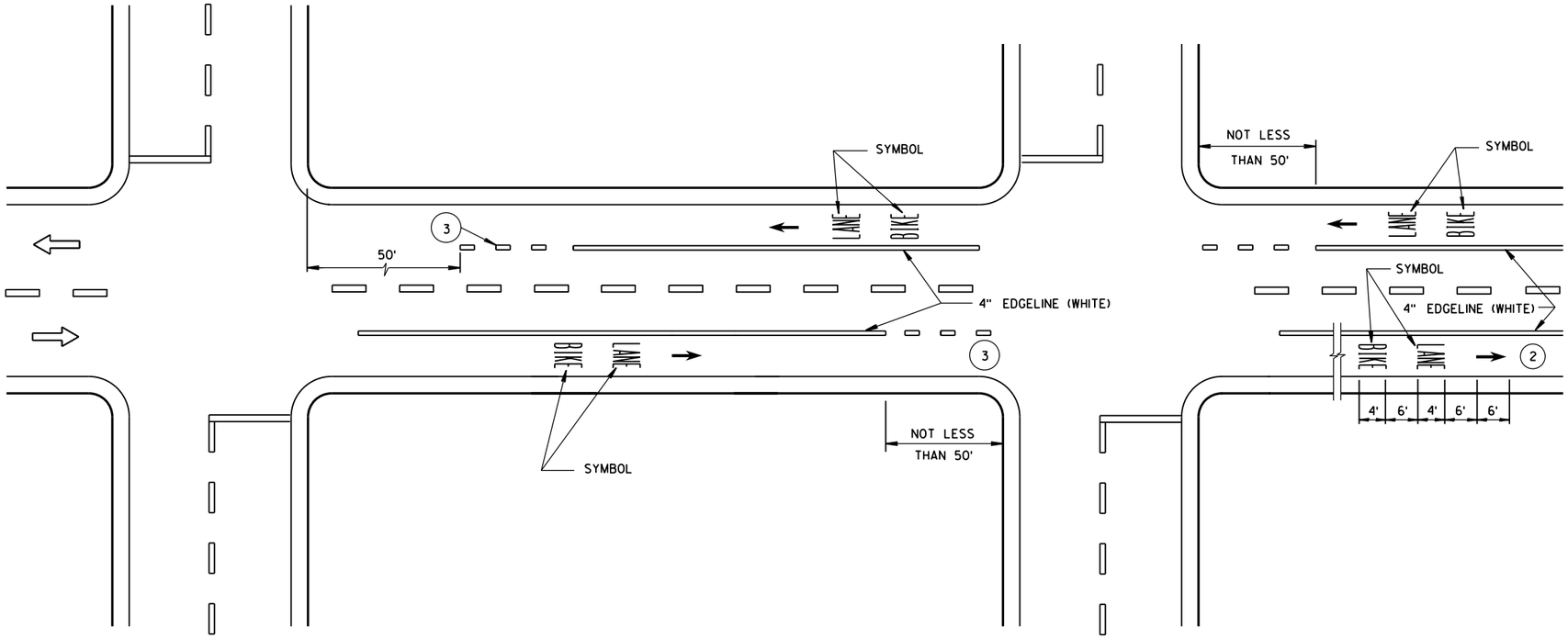
LARGE RIGHT TURN ISLAND
WITH SIGNAL POLE



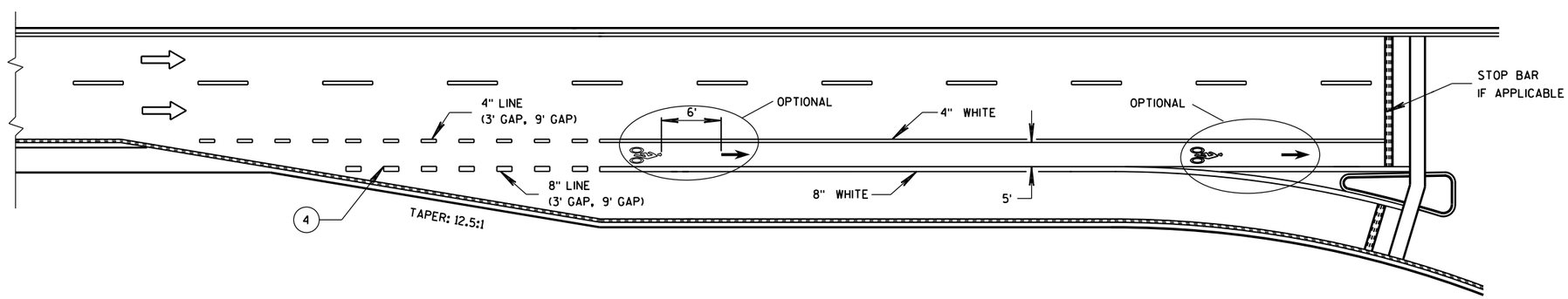
SMALL RIGHT TURN ISLAND

DOUBLE ARROW WARNING SIGN PLACEMENT

DOUBLE ARROW WARNING SIGN PLACEMENT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
10-22-08 DATE	/S/ Thomas N. Nothdurft STATE TRAFFIC ENGINEER
FHWA	343 IGN



DESIGNATED BICYCLE LANE
NO PARKING



BIKE LANE - 4-LANE DIVIDED WITH RIGHT TURN LANE

GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
3. DOTTED LINES (3'LINE, 9'GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.

⇨ DIRECTION OF TRAVEL

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

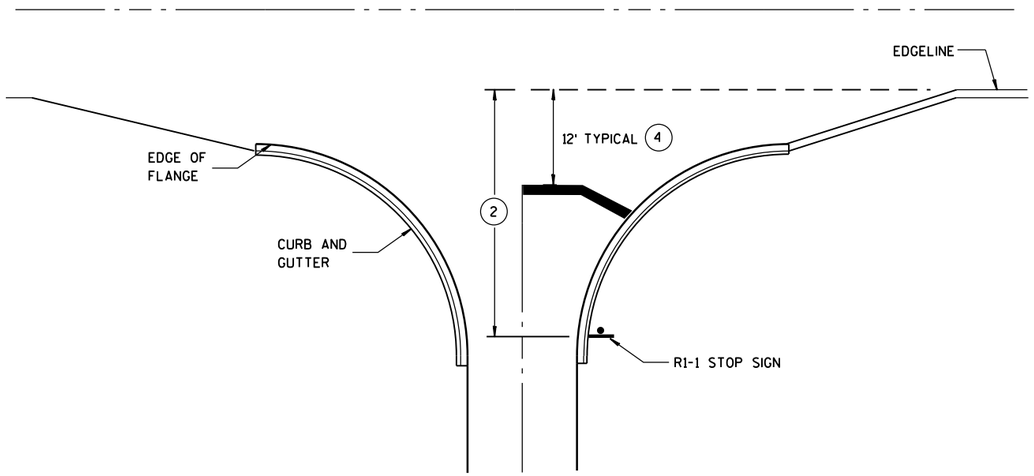
APPROVED

4-18-2016	/S/ Matthew R. Rauch	
DATE	STATE SIGNING AND MAR	NEER

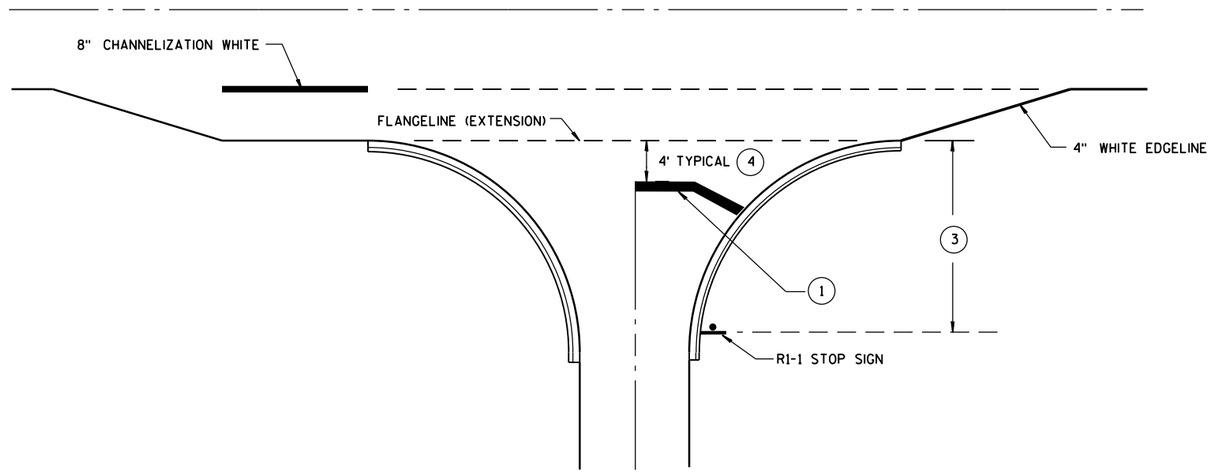
FHWA

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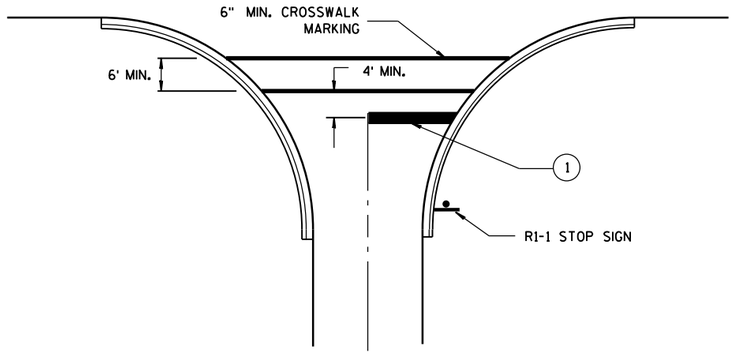
S.D.D. 15 C 29-4a



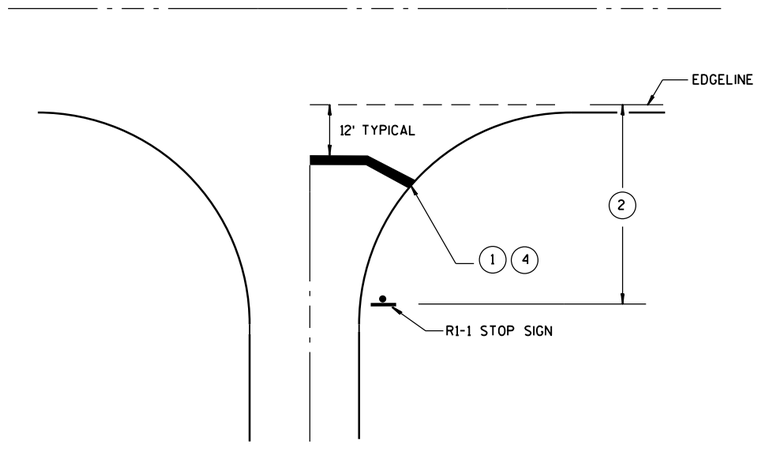
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

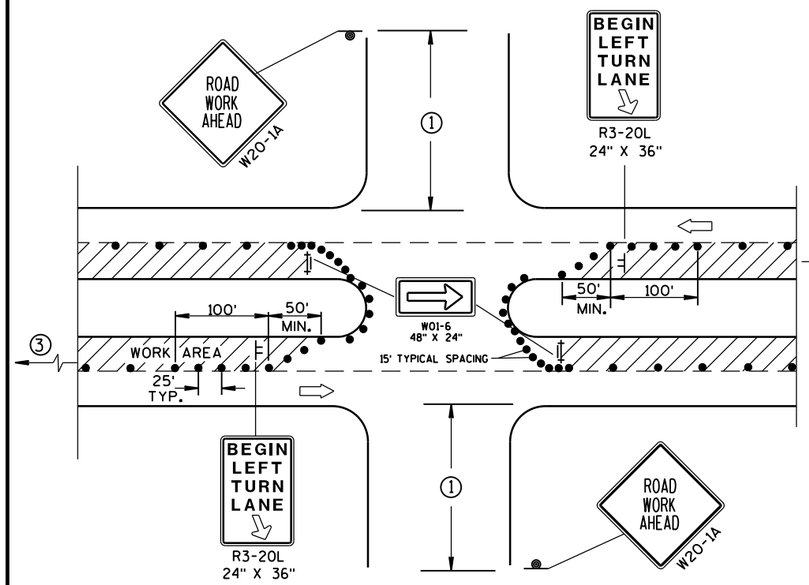
4-18-2016
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAR 345 NEER

FHWA

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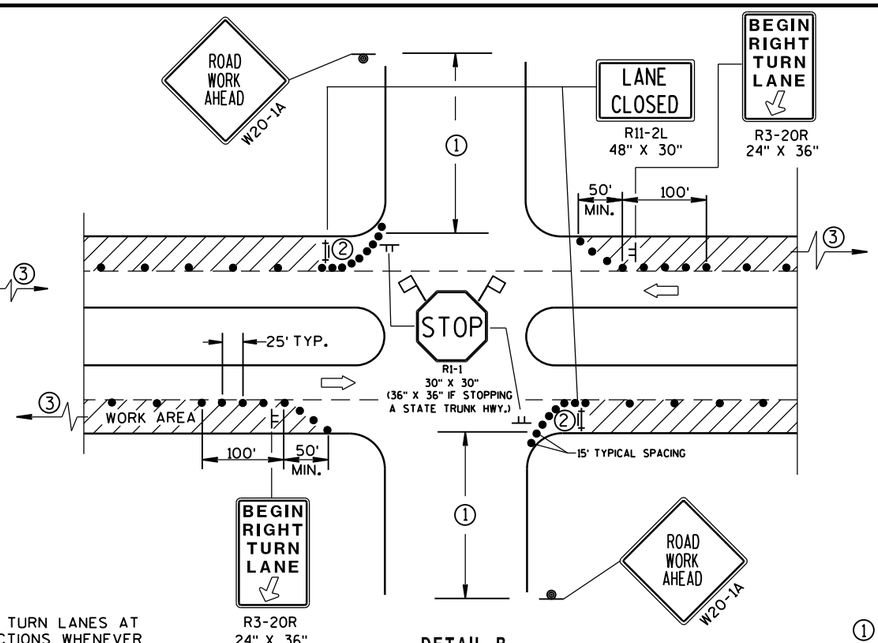
S.D.D. 15 C 33-2



DETAIL A

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL B

FOR RIGHT LANE CLOSURE AT INTERSECTION

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.

THE SPACING BETWEEN 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 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.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, 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.

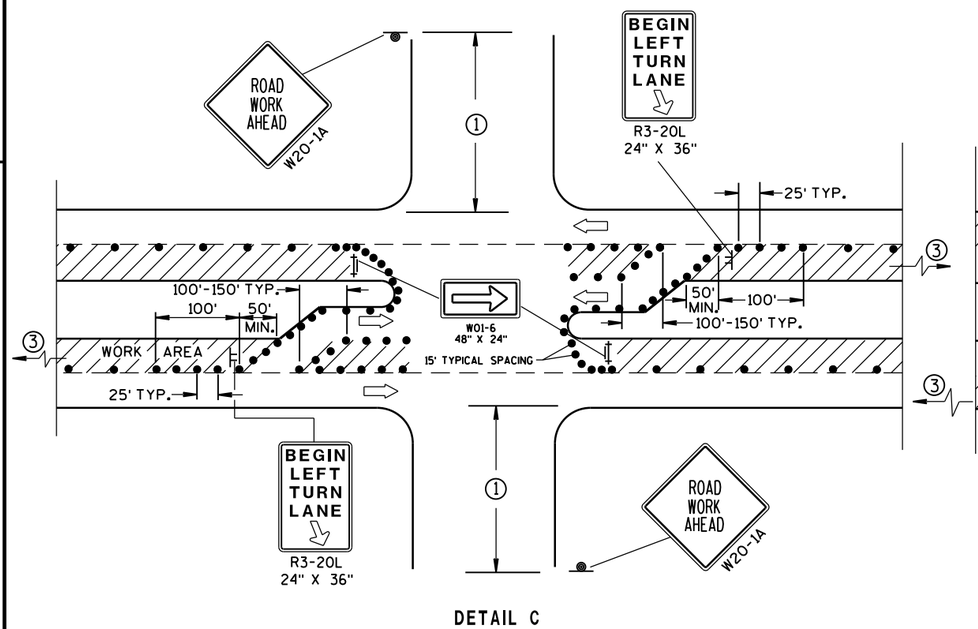
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE 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.

① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.

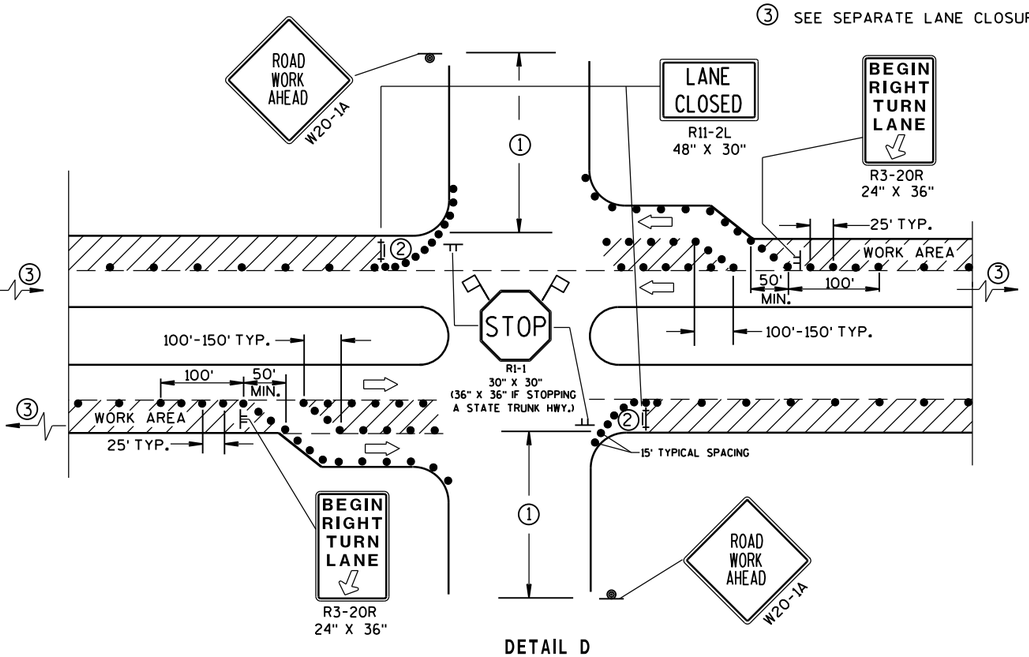
② ALSO USE BARRICADE AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)



DETAIL D

FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., (ORANGE)
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Peter Anakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6

S.D.D. 15 D 21-4

6

S.D.D. 15 D 21-4

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.

W20-1A 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

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S \ W	4	6	8	10	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

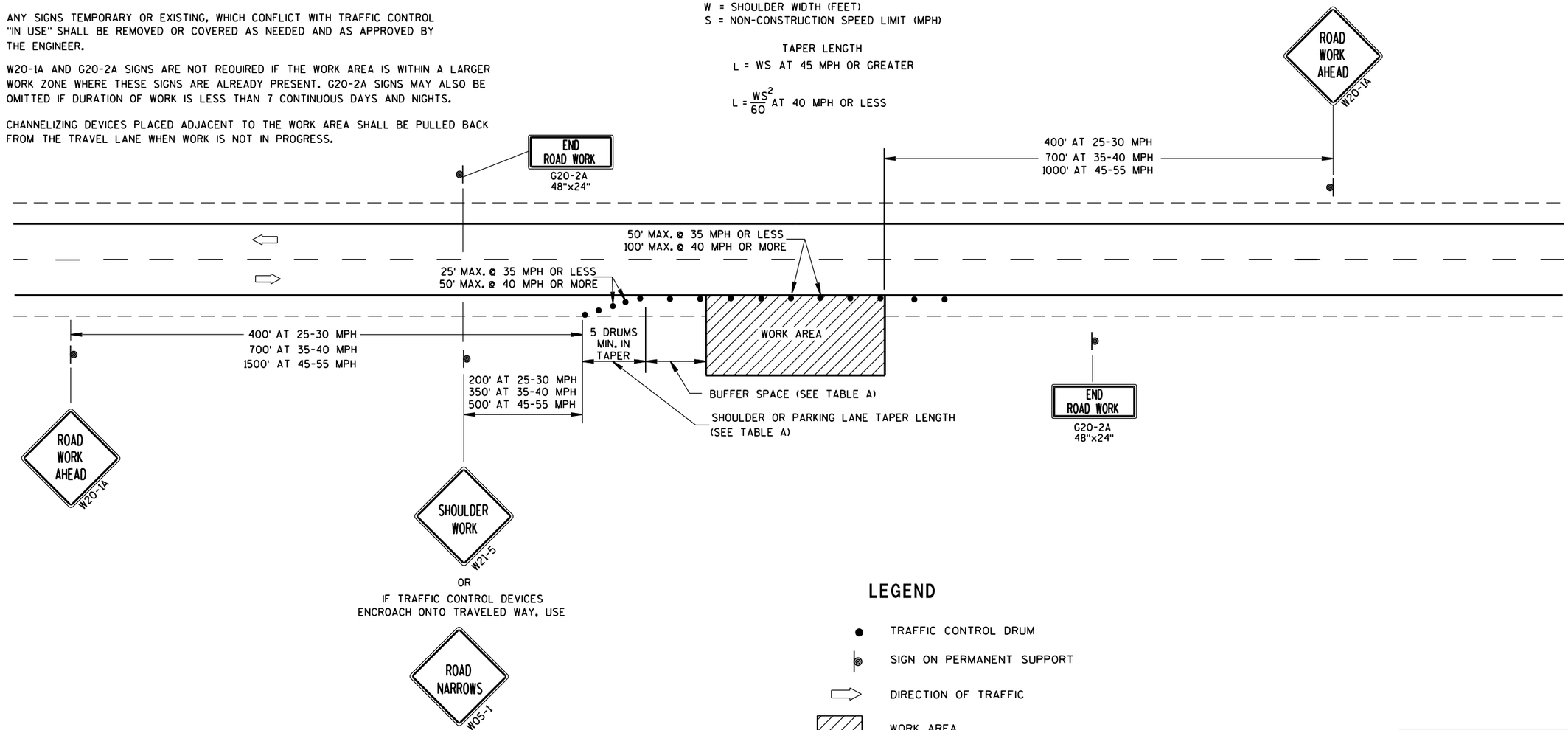
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

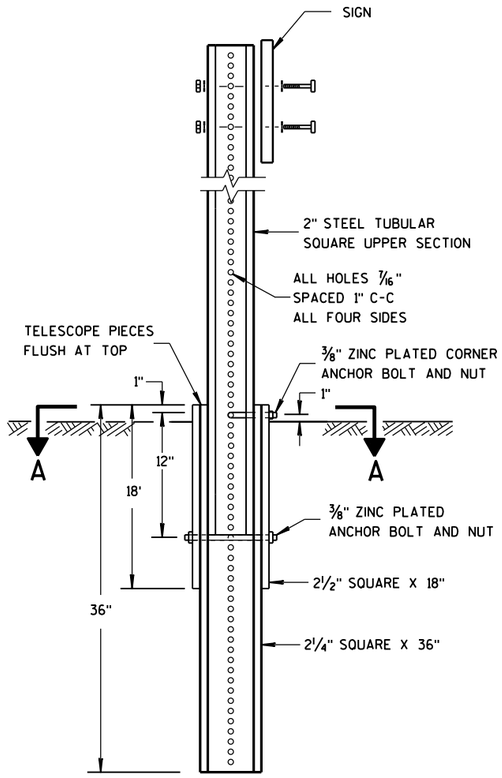
July 14, 2015 — DATE

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO SAFETY ENGI FIC

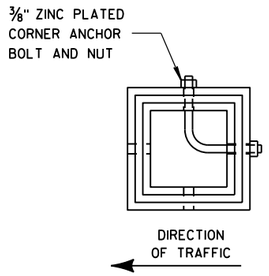
FHWA

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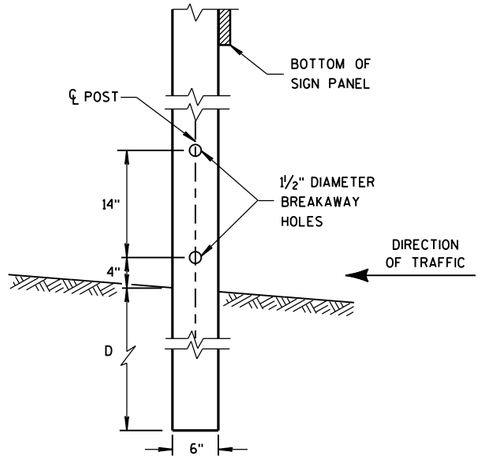
S.D.D. 15 D 28-3



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



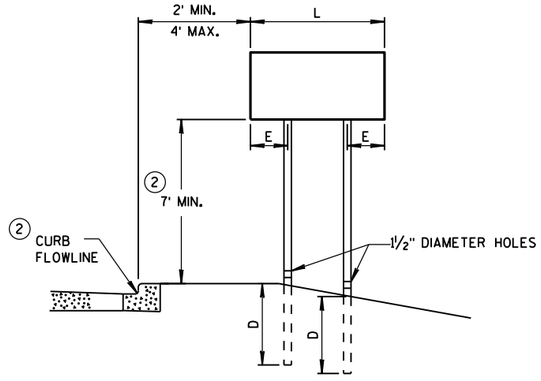
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

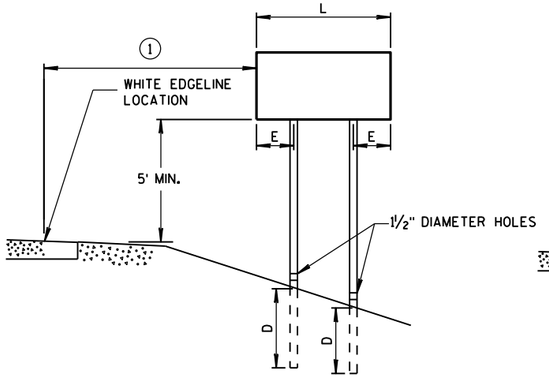
1. 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

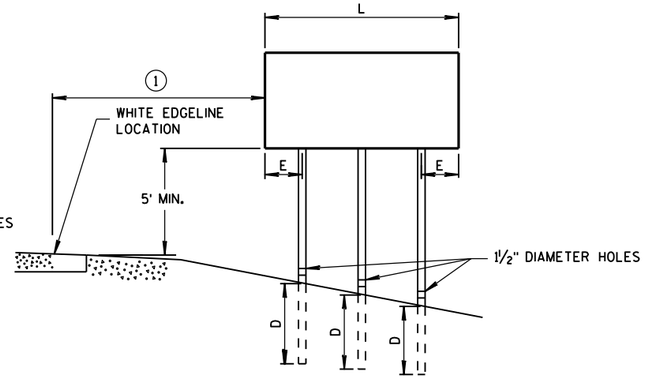
2. THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

3. FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

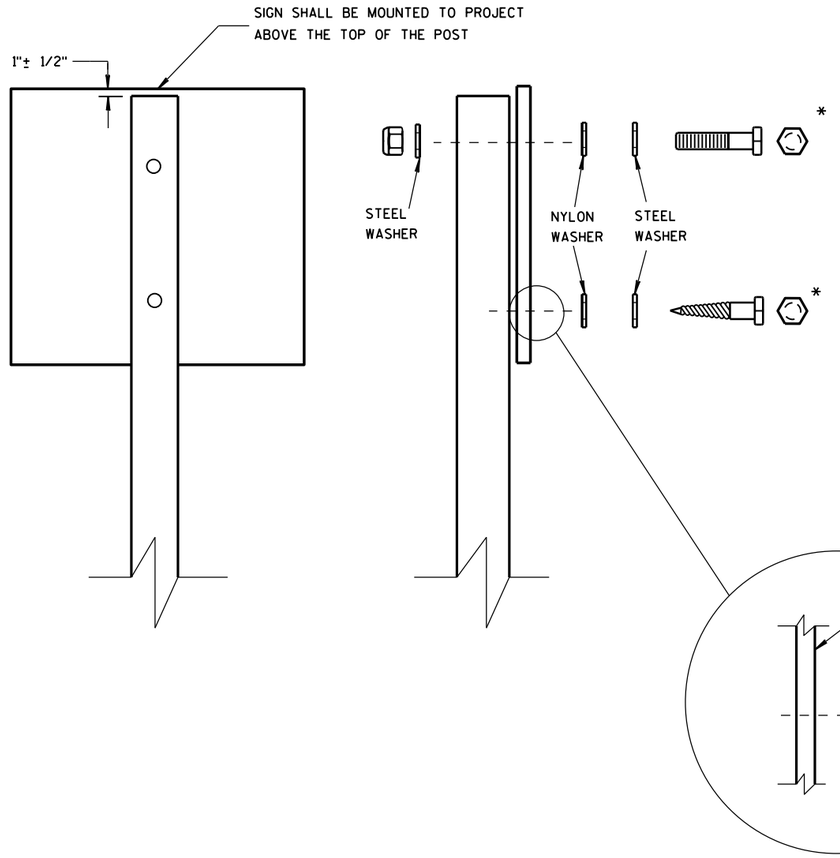
SEE NOTE (3)

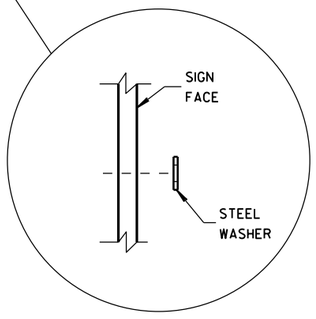
TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

STATE OF WISCONSIN DEPARTMENT OF TRANSPO

6

S.D.D. 15 D 38-1a





WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

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

* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

6

6

S.D.D. 15 D 38-1b

S.D.D. 15 D 38-1b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Feb. 2015 — DATE

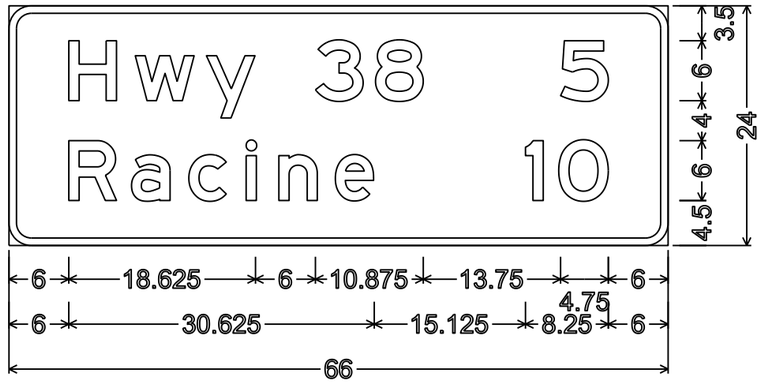
/S/ Travis Feltes — STATE TRAFFIC ENGINEER

FHWA

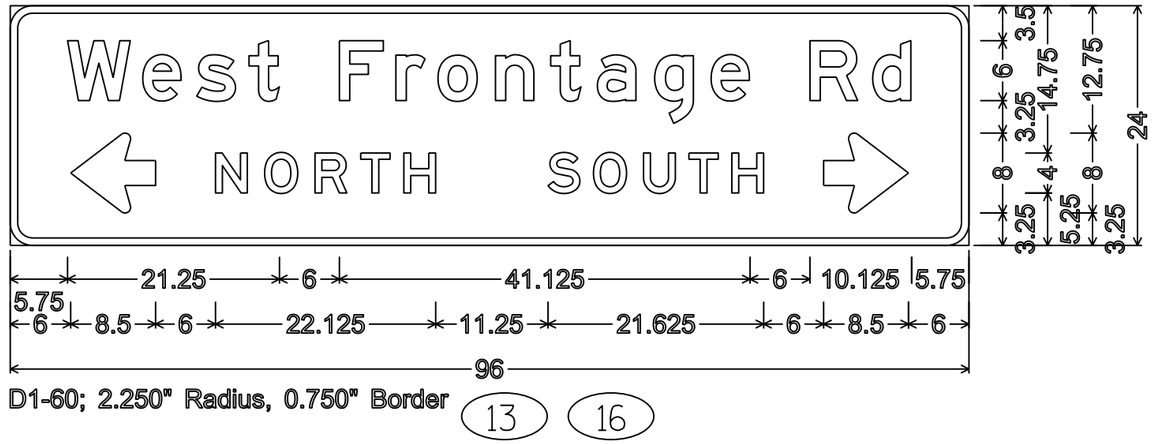
SIGN

NOTES

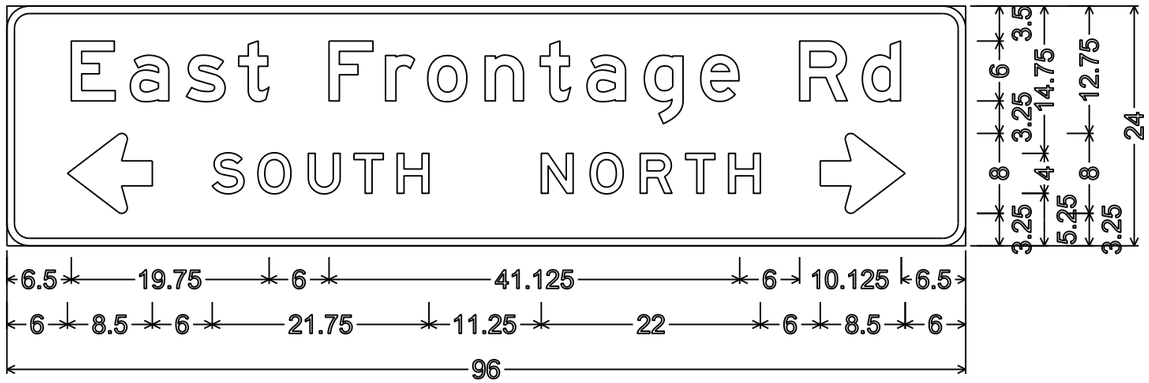
1. Signs are Type II- Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E



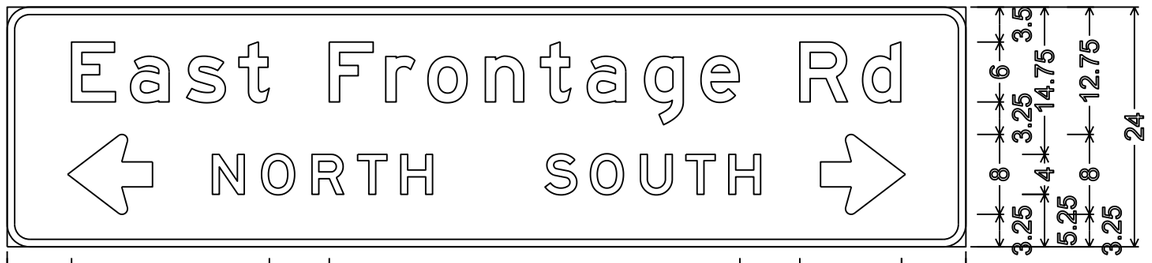
D2-2; 2.250" Radius, 0.750" Border (167)



D1-60; 2.250" Radius, 0.750" Border (13) (16)



D1-60; 2.250" Radius, 0.750" Border (150)



D1-60; 2.250" Radius, 0.750" Border (143)



D1-60; 2.250" Radius, 0.750" Border (62)

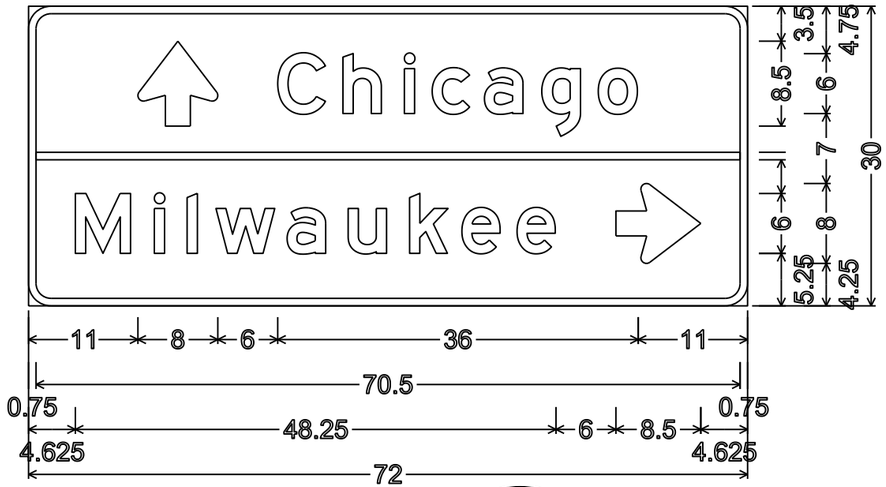
7

PROJECT NO: 1030-11-71	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING	SHEET NO:	E

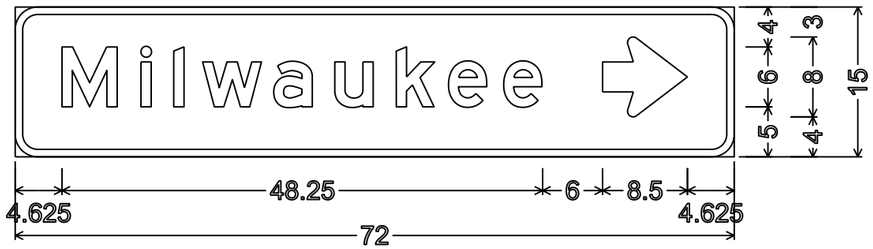
FILE NAME : C:\CAEfiles\Projects\tr_d2\2513gn16.dgn PLOT DATE : 07-OCT-2016 15:41 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 15.168366:1.000000

NOTES

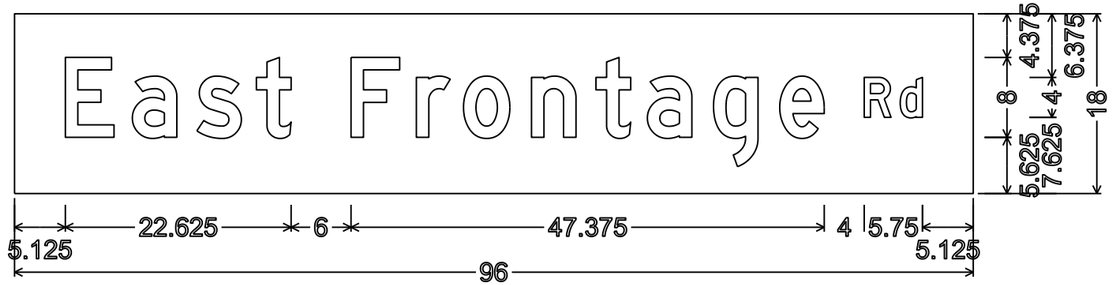
1. Signs are Type II- Type H Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted
4. M1-94H base material is .125" aluminum



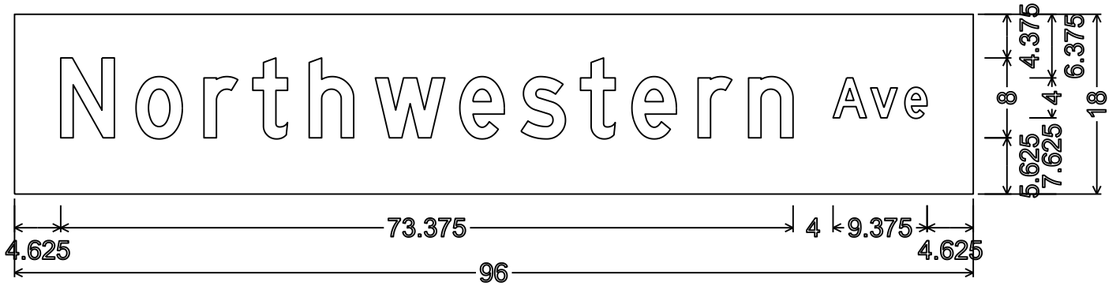
D1-2; 2.250" Radius, 0.750" Border (92)



2.250" Radius, 0.750" Border (81)



M1-94H; No border,
"East" D; "Frontage" D; "Rd" D (125) (139)



M1-94H; No border,
"Northwestern" D; "Ave" D (113) (134)

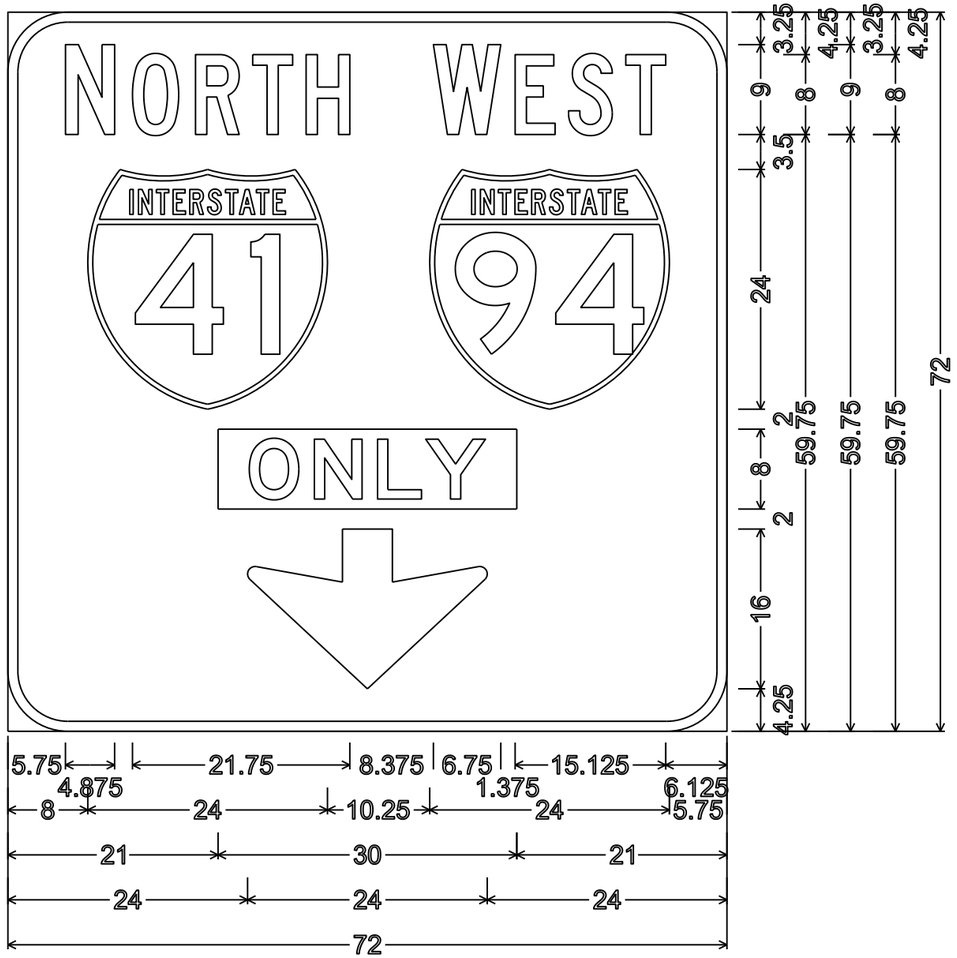
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PROJECT NO: 1030-11-71	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING	SHEET NO:	E

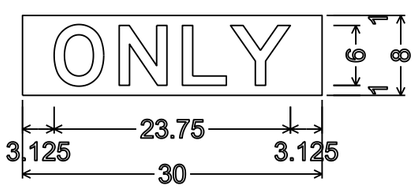
FILE NAME : C:\CAEfiles\Projects\tr_d2\2513op16.dgn PLOT DATE : 07-OCT-2016 15:41 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 15.168366:1.000000

NOTES

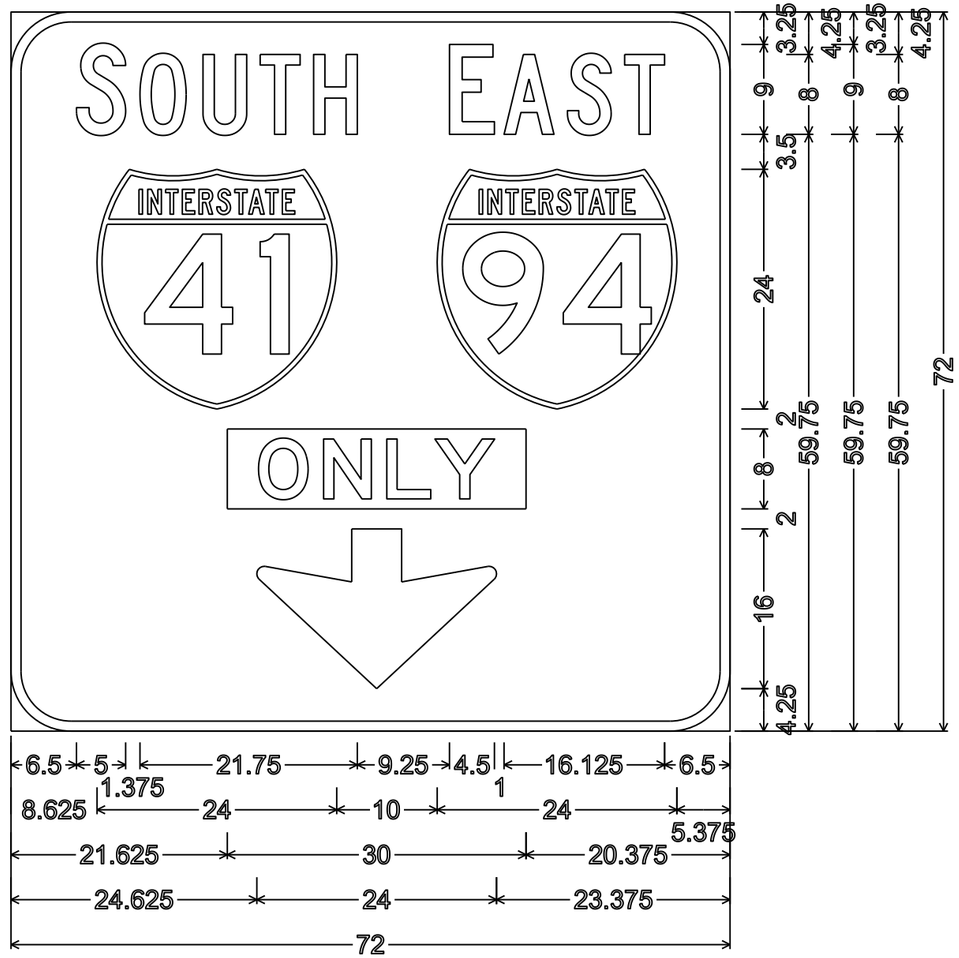
1. Signs are Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - As noted
4. ONLY Plaque on Type F Reflective Sheeting with Black Message



6.000" Radius, 1.000" Border
"NORTH" C; "WEST" C (99)



No border, Fluorescent yellow;
"ONLY" Black E



6.000" Radius, 1.000" Border
"SOUTH" C; "EAST" C (70) (93)

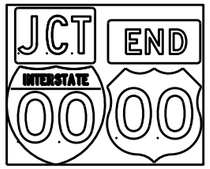
PROJECT NO: 1030-11-71	HWY: IH 94	COUNTY: RACINE	PERMANENT SIGNING	SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_d2\2513op16.dgn PLOT DATE : 07-OCT-2016 15:43 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 15.168366:1.000000

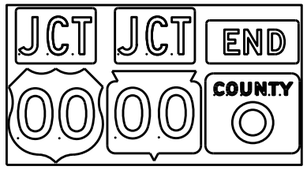
TYPICAL ASSEMBLIES



J1-1



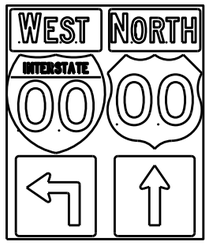
J1-2



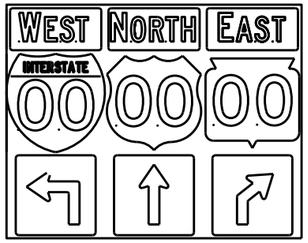
J1-3



J2-1



J2-2

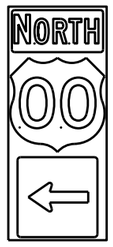


J2-3

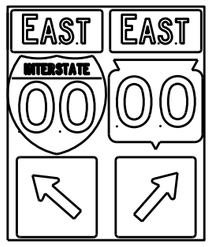


JV

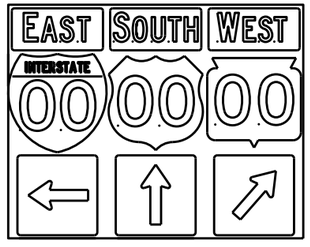
(Typical Vertical J-Assembly
See Note 10 and 11)



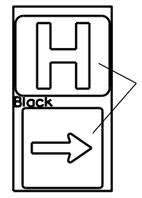
J3-1



J3-2



J3-3

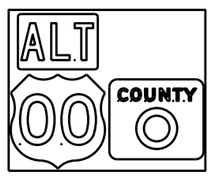


Blue Background

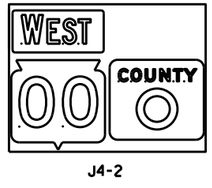
JH-1



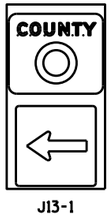
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

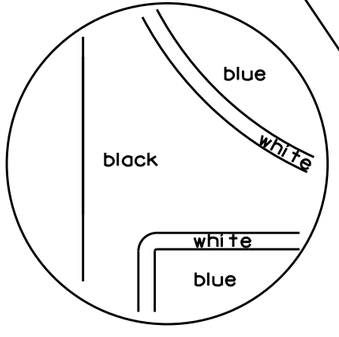


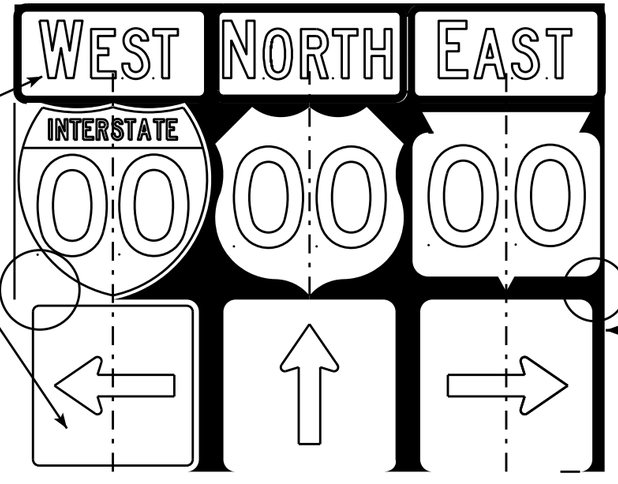
J23-1

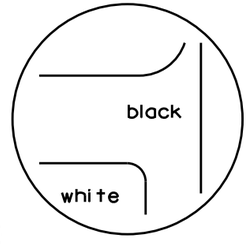


J22-1

[blue background with interstate]







[black background]

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 or rounded if base material is plywood. If base material is metal the corners shall be rounded.
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.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

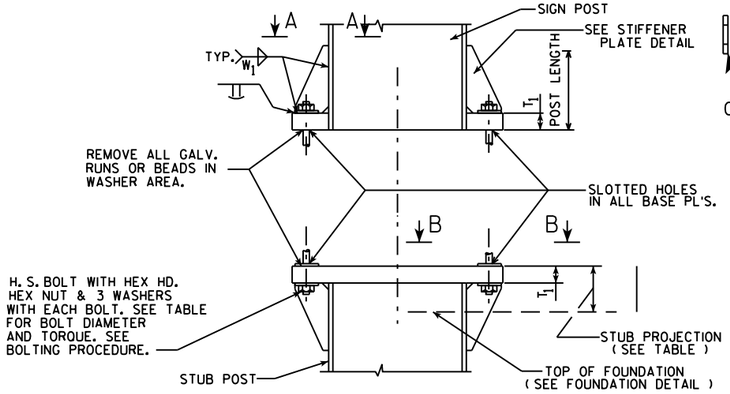
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/06/14 PL... A2-1S.8

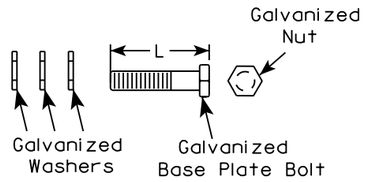
PROJECT NO: | SHEET NO: E

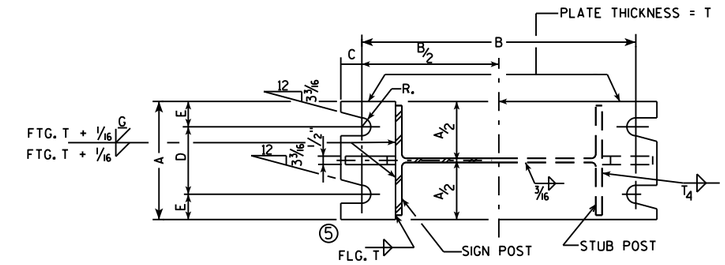
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

WISDOT/CADDS SHEET 42

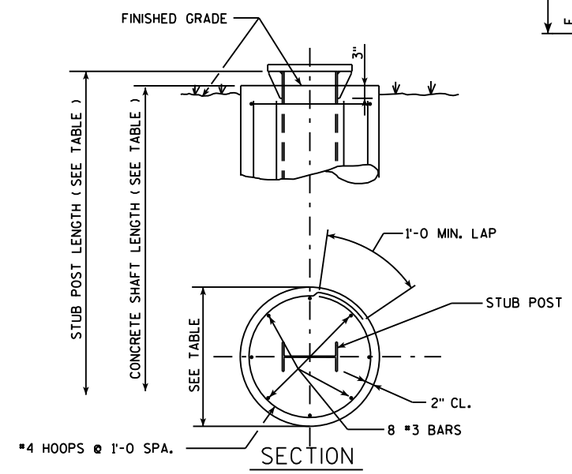


SIGN POST AND STUB POST ELEVATION

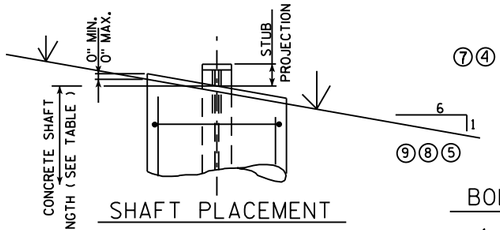




SECTION A-A SECTION B-B



SECTION



SHAFT PLACEMENT

DESIGN DATA

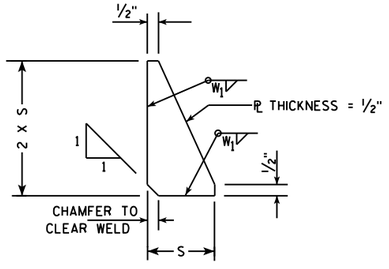
WIND PRESSURE = 75 M.P.H.
WIND COMPONENTS - NORMAL = 1.0 TRANSVERSE = 0.0
ICE LOAD = 3 P.S.F.

GROUP LOADS	PERCENT OF ALLOWABLE STRESS
1. DEAD	100
2. DEAD & WIND	140
3. DEAD, ICE & 1/2 WIND[4]	140 [4]25 P.S.F. MIN.

ALLOWABLE SOIL PRESSURE = 1 1/2 T / SQ. FT.
WIND LOAD WAS APPLIED TO THE AREA OF THE SIGN AND TO THE SUPPORTING MEMBERS.
ICE LOAD WAS APPLIED TO ONE FACE OF THE SIGN AND AROUND THE SURFACE OF THE SUPPORTING MEMBERS.

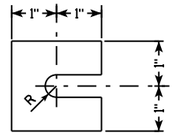
GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DESIGN CONFORMS WITH A.A.S.H.T.O. SPECIFICATIONS 1985.
ALL POSTS, POST STUBS & ATTACHMENTS SHALL BE A.S.T.M. A709 GRADE 50, GALVANIZED IN ACCORDANCE WITH ASTM A123. (9)
THE POST, BASE PLATES, UPPER SIX INCHES OF STUB POST FLANGE SPLICE PLATE AND FUSE PLATE SHALL BE GALVANIZED AFTER FABRICATION.
FURNISH STEEL BOLTS, NUTS, AND WASHERS IN ACCORDANCE WITH SECTION 635 OF THE STANDARD SPECIFICATIONS.



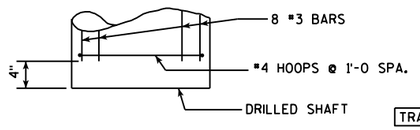
STIFFENER PLATE DETAIL

(SEE TABLE FOR DIMENSIONS)



FURNISH 2 @ .012" ± THICK AND 2 @ .032" ± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO A.S.T.M.- B36.

SHIM DETAIL



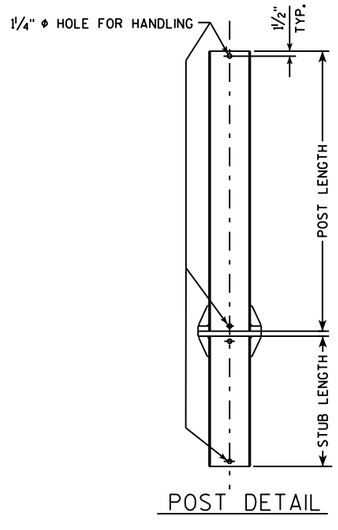
FOUNDATION DETAIL

QUANTITIES FOR 1 FOOTING		
	CONC. MASONRY C.Y.	REINF. STEEL LBS.
A	0.6	34
B	0.8	49
C	0.9	50
D	0.9	56
E	1.0	62

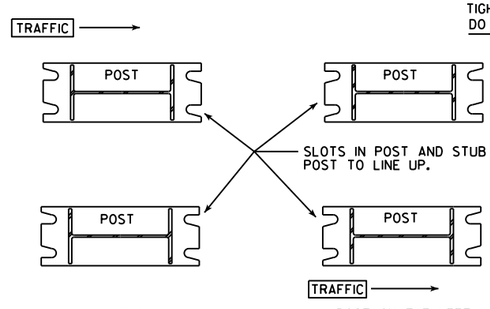
(7)

REINF.	TYPE	#3	#4
	A	8 @ 4'-5	5 @ 6'-3
	B	8 @ 6'-5	7 @ 6'-3
	C	8 @ 6'-11	7 @ 6'-3
	D	8 @ 7'-5	8 @ 6'-3
	E	8 @ 7'-11	9 @ 6'-3

(7)



POST DETAIL



POST SLOT ORIENTATION (7)

BOLTING PROCEDURE - BASE CONNECTION

1. ASSEMBLE SIGN POST TO STUB POST WITH BOLTS AND ONE OF THE FLAT WASHERS ON EACH BOLT BETW. PLATES.
2. SHIM AS REQ'D. TO PLUMB POST.
3. PRIOR TO BOLT TIGHTENING LUBRICATE BASE CONNECTION BOLTS WITH BEESWAX OR OTHER HIGH-WAX LUBRICANT.
4. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH 12" OR 15" WRENCH TO BED WASHERS & SHIMS AND TO CLEAN BOLT THREADS, THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. (SEE TABLE)
5. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

NOTE:
TIGHTEN THE HIGH STRENGTH BOLTS TO THE TORQUE SHOWN. DO NOT OVERTIGHTEN.

	BASE CONNECTION DATA TABLE													FOUNDATION DATA				
L	X	TYPE	DIMENSION / POST SIZE	BOLT SIZE & TORQUE	A	B	C	D	E	T_1	T_4	W_1	R	S	STUB LENGTH	STUB PROJECTION	SHAFT DIAMETER	SHAFT LENGTH
3 3/4	(4)	A	W10"X12.0 #/FT.	3/4" Φ @ 75#-FT.	5 1/4"	1'-0 3/8"	7/8"	3 1/2"	7/8"	1"	3/16"	5/16"	13/32"	2 1/8"	3'-6	3"	2'-0 Φ	5'-0
4 3/4	(4)	B	W12"X16.0 #/FT.	7/8" Φ @ 85#-FT.	5 1/2"	1'-4 1/4"	1"	3 1/2"	1"	1 1/4"	1/4"	5/16"	13/32"	3"	5'-6	3"	2'-0 Φ	7'-0
5		C	W12"X19.0 #/FT.	7/8" Φ @ 85#-FT.	5 1/2"	1'-4 1/4"	1"	3 1/2"	1"	1 1/2"	5/16"	5/16"	13/32"	3"	6'-0	3"	2'-0 Φ	7'-6
5		D	W12"X22.0 #/FT.	7/8" Φ @ 85#-FT.	5 1/2"	1'-4 1/4"	1"	3 1/2"	1"	1 1/2"	3/8"	5/16"	13/32"	3"	6'-6	3"	2'-0 Φ	8'-0
5	(3)	E	W12"X26.0 #/FT.	1" Φ @ 90#-FT.	7"	1'-4 1/4"	1 1/4"	4"	1 1/2"	1 1/2"	3/8"	5/16"	17/32"	3"	7'-0	3"	2'-0 Φ	8'-6

(1) (6) (1)

(2)

K	
76.0#	(4)
146.5#	(4)
182.1#	
210.5#	
293.0#	(3)

STRUCTURAL CARBON STEEL PAY WTS. (1 POST) = K+ (POST LENGTH X POST WT.)
" K " INCLUDES STUB, BASE PLATES, STIFFS., BOLTS, AND WASHERS.

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 11/12/15 PLATE NO. A3-1.16

(10)	1-21-14	LUBRICATION OF BASE BOLTS
(9)	4-26-11	REMOVE NON-GALVANIZED
(8)	10-30-96	NOT GALVANIZED/GALVANIZED
(7)	10-30-92	QUANT., A588 EXCEPT., ADD SLOT VIEW
(6)	8-24-87	BASE CONN. WELD
(5)	10-13-81	BASE CONN. WELD & FUSE PL WASHERS
(4)	10-19-79	POST A & B, A572 GR. 50, & K
(2)	11-28-78	"K" (3) 4-23-79 TYPE "E"
(1)	5-4-78	T_1 , T_2 & W_1
NO.	DATE	REVISION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

TYPE A, B, C, D, & E

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2011	JPH	

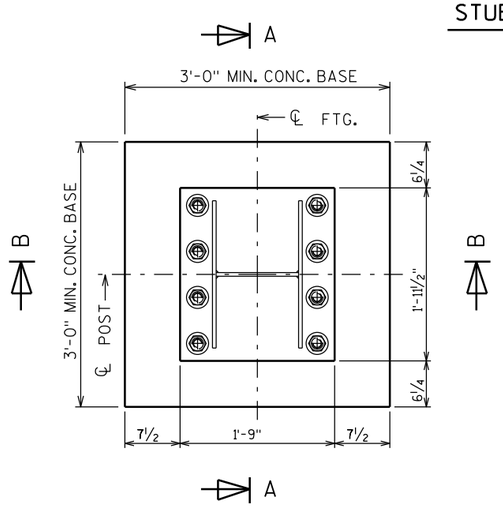
FTG. & SIGN SUPPORT DETAILS GROUND MOUNT BREAK-AWAY SIGNS

SHEET 354

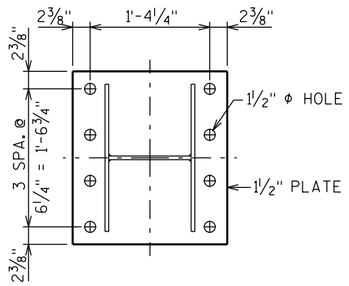
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A31.DGN PLOT DATE : 01-DEC-2015 18:20 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000

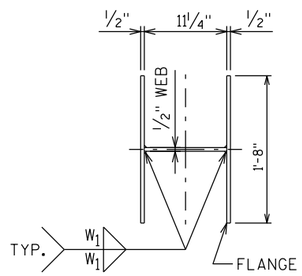
STUB AND MASONRY ANCHOR DETAILS



STUB SECTION



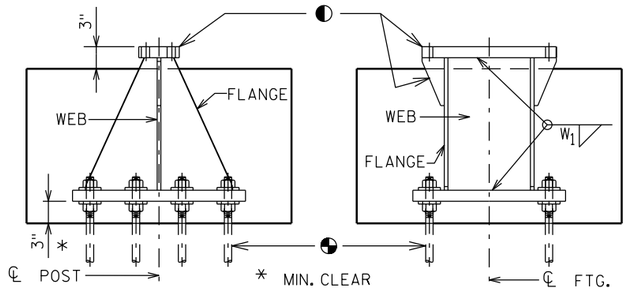
BASE PLATE



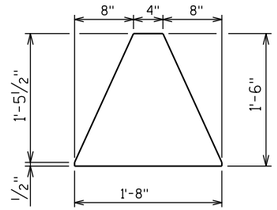
STUB

◐ SEE PLATE NO. A3-1 FOR DETAILS

◒ MASONRY ANCHORS TYPE S 1¼-INCHES (ADHESIVE). ALLOWABLE PULL OUT CAPACITY 14,995 KIPS. EMBED 1'-3" IN ROCK.



SECTION A SECTION B



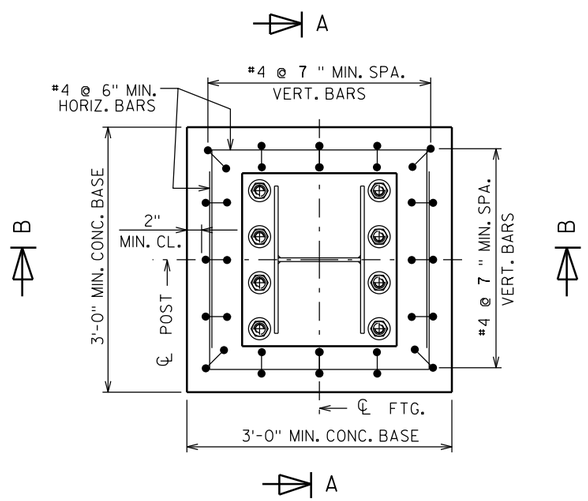
FLANGE

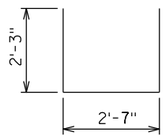
GENERAL NOTES

1. Quantities per Base:
   - REINFORCING BAR STEEL = 62 LBS
   - CONCRETE = 0.6 C.Y.
   - STEEL WEIGHT = 335 LBS
2. All materials, except anchor rod, nuts and washers, are to be A.S.T.M. A709 grade 50. All materials to be galvanized after fabrication.
3. If the contractor encounters rock before reaching the footing depth, per the A3-1 Sign Detail, determine the pull-out capacity of a test adhesive anchor installed in the rock. If the test result equals or exceeds the pull-out capacity of 14,995 KIPS, the contractor may install the breakaway stub for rock, according to this detail.

CONCRETE BASE AND REINFORCING STEEL DETAILS

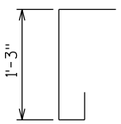
CONCRETE BASE SECTION





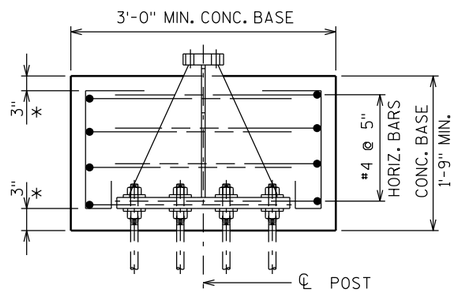
HORIZONTAL BAR

8 BARS @ 6'-11" LENGTH



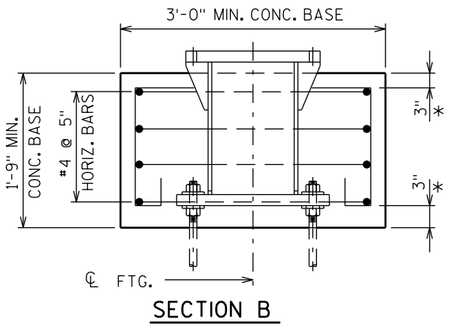
VERTICAL BARS

16 BARS @ 2'-4" LENGTH
MAY BE PLACED IN SKEW
FOR CLEARANCE NEED



SECTION A

* MIN. CLEAR



SECTION B

ALTERNATE BREAK-AWAY BASE ON ROCK
A3-1M

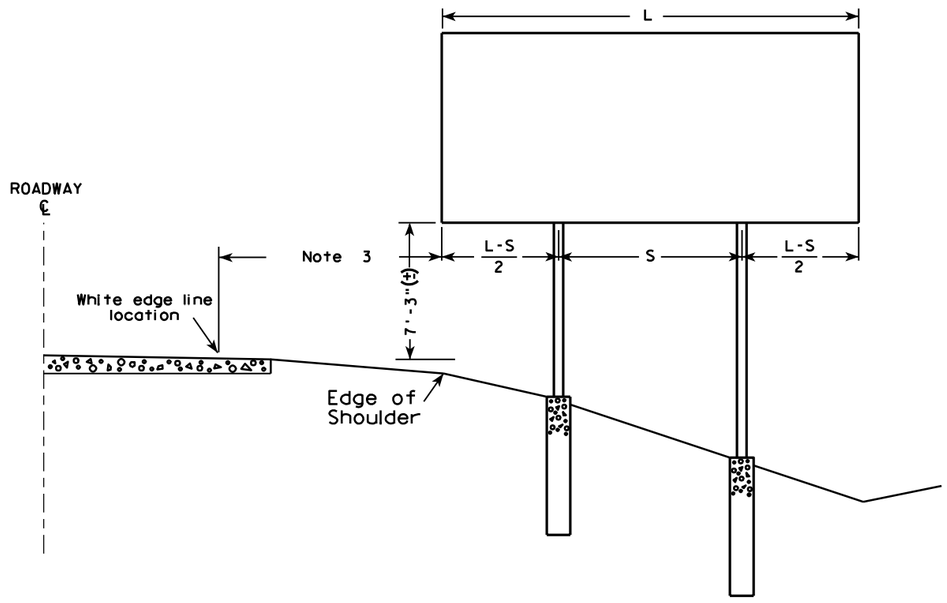
WISCONSIN DEPT OF TRANSPORTATION

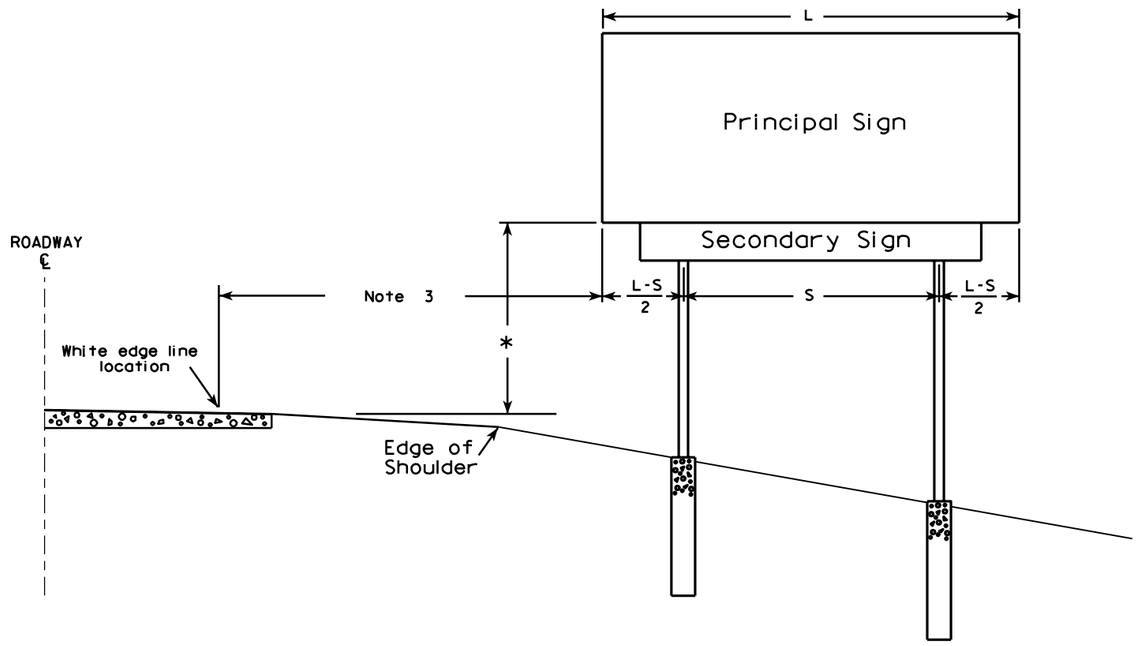
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 2/06/2014 PLATE A3-1M.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A31M.DGN PLOT DATE : 10-MAR-2014 15:16 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.556674:1.000000 WISDOT/CADDS SHEET 42





GENERAL NOTES

1. For a 2 post installation, S equals 3L/5, but shall not be less than 9 ft.
2. For a 3 post installation, S equals 5L/7, but shall not be less than 18 ft., and the space between any two posts shall not be less than 9 ft.
3. Unless noted in the plan, the sign offset distance shall be a minimum of 17'-6", desirable 30'-0".
4. The (±) tolerance shown on this sheet is 3 in.
5. The vertical sign height clearance detailed is measured from the bottom of the sign to the near edge of pavement.
6. Post lengths shown in the miscellaneous quantities are estimated lengths. The contractor shall verify post lengths at the time of final grading.
7. Refer to the Traffic Guidelines Manual for further guidance on minimum vertical clearance requirements.

* Clearance is 8'-3"(±) when the secondary sign is 3 ft. or less in height. For secondary signs larger than 3 ft., the clearance to the bottom of the secondary sign shall be 5'-3"(±).

7

7

TYPICAL INSTALLATION
OF TYPE I SIGNS

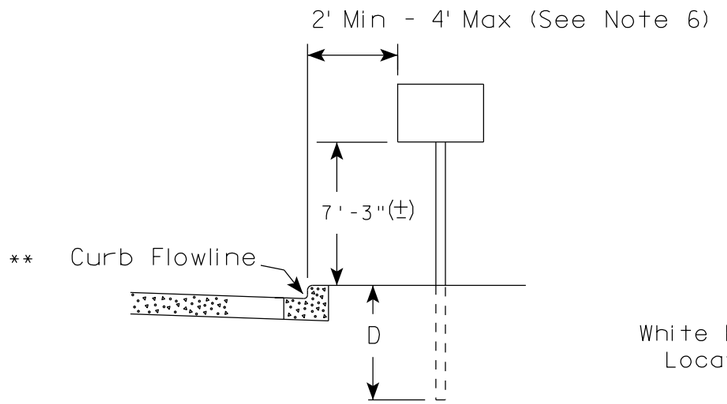
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

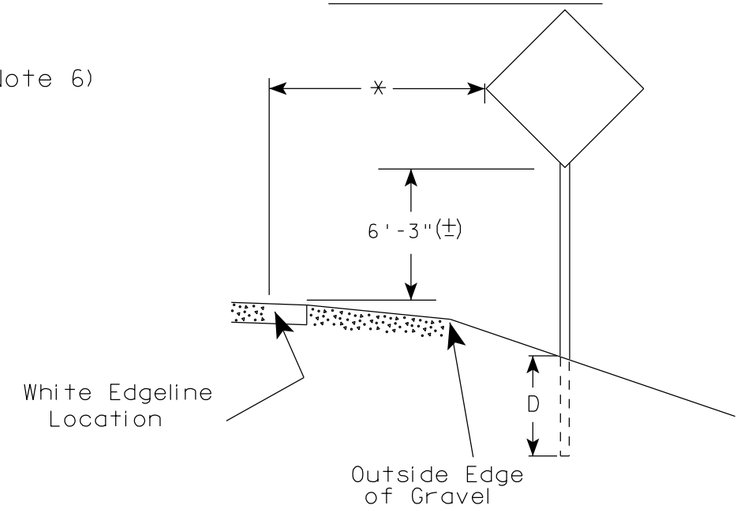
DATE 4/02/08 PLATE NO. A4-1.9

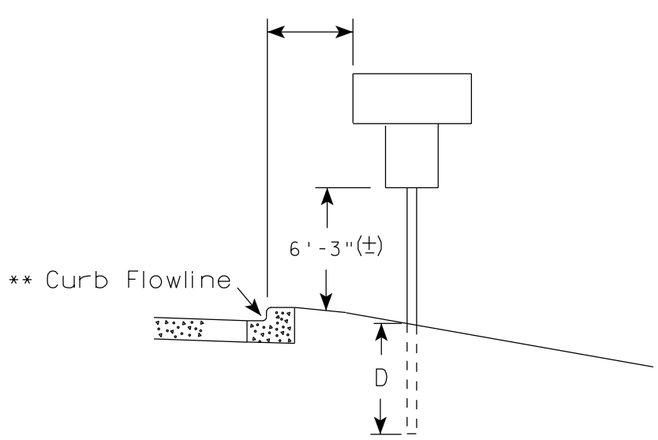
PROJECT NO:				SHEET NO: 356	E

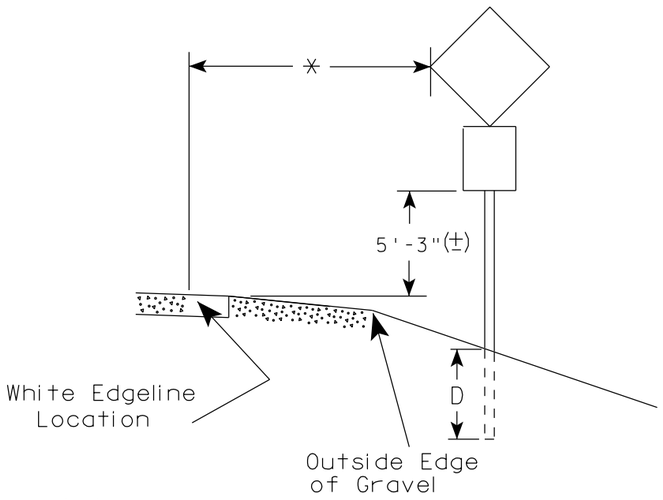
URBAN AREA



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.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, 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 (A2-1S) 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 signs shall be mounted at a height of 5'-3" (±) or as directd 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), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

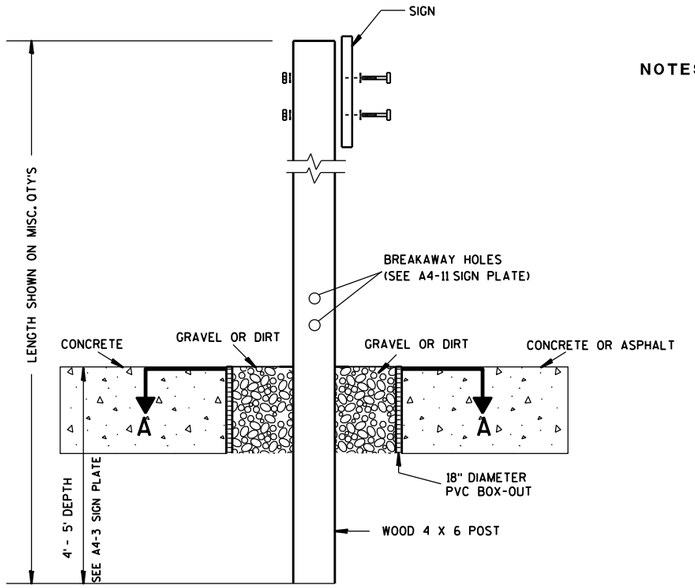
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

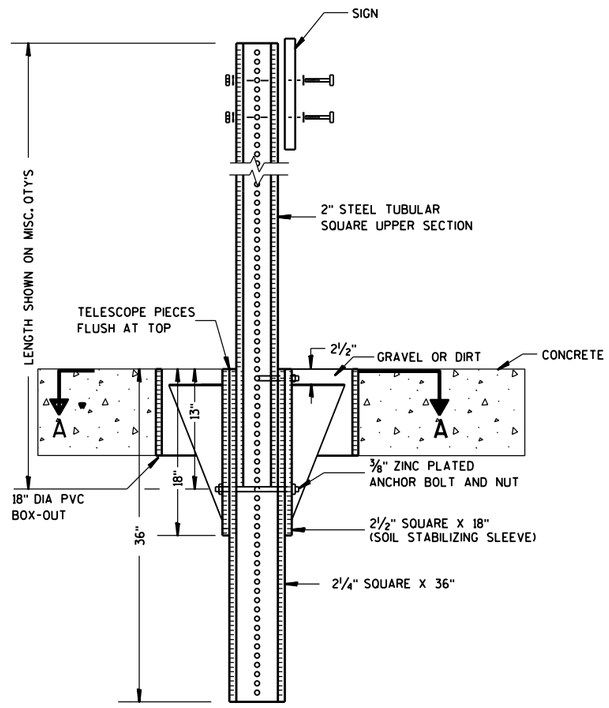
7



ELEVATION VIEW

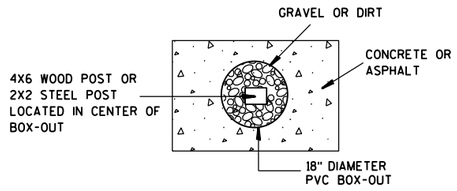
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

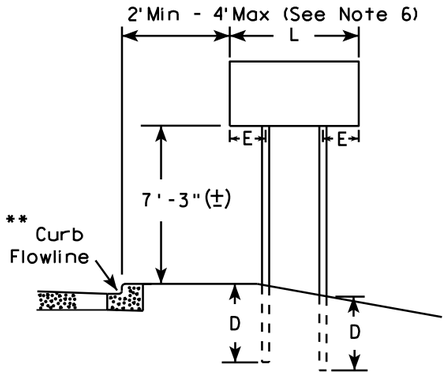
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

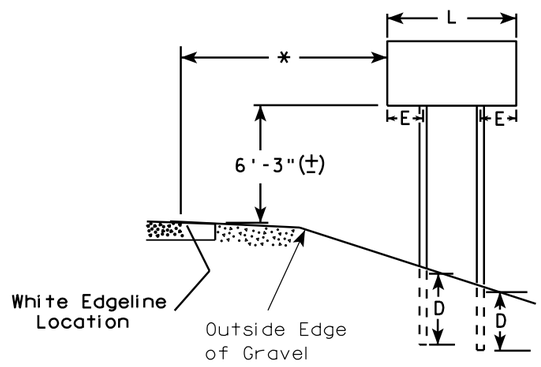
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

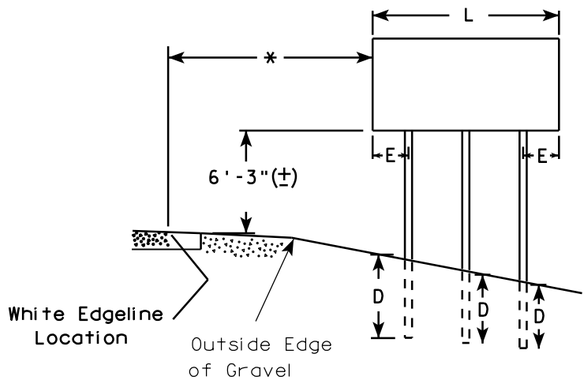
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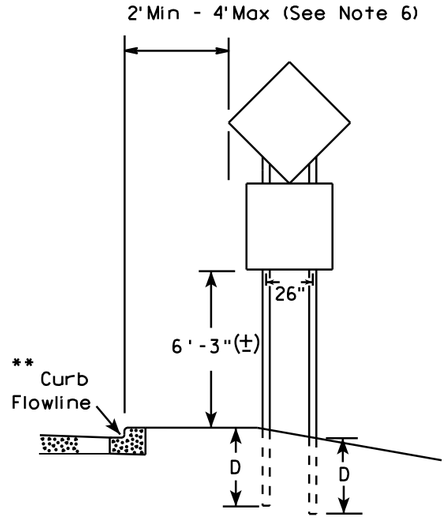
URBAN AREA



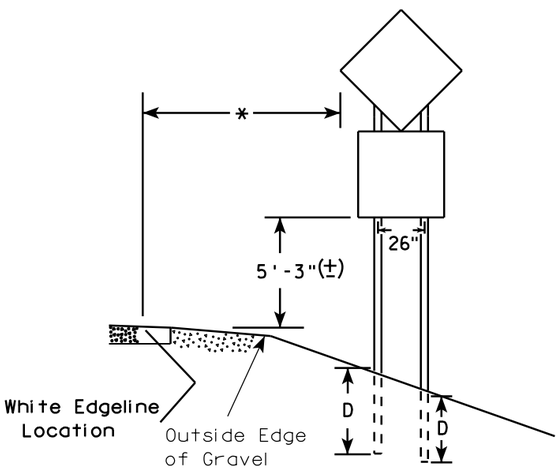
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

GENERAL NOTES

1. For 3 or 4 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 (A2-1S) 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 signs 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), In Road Object Markers (W5-54) & End of Road Markers (W5-56) 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 and less than 20 S.F. in area.

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'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

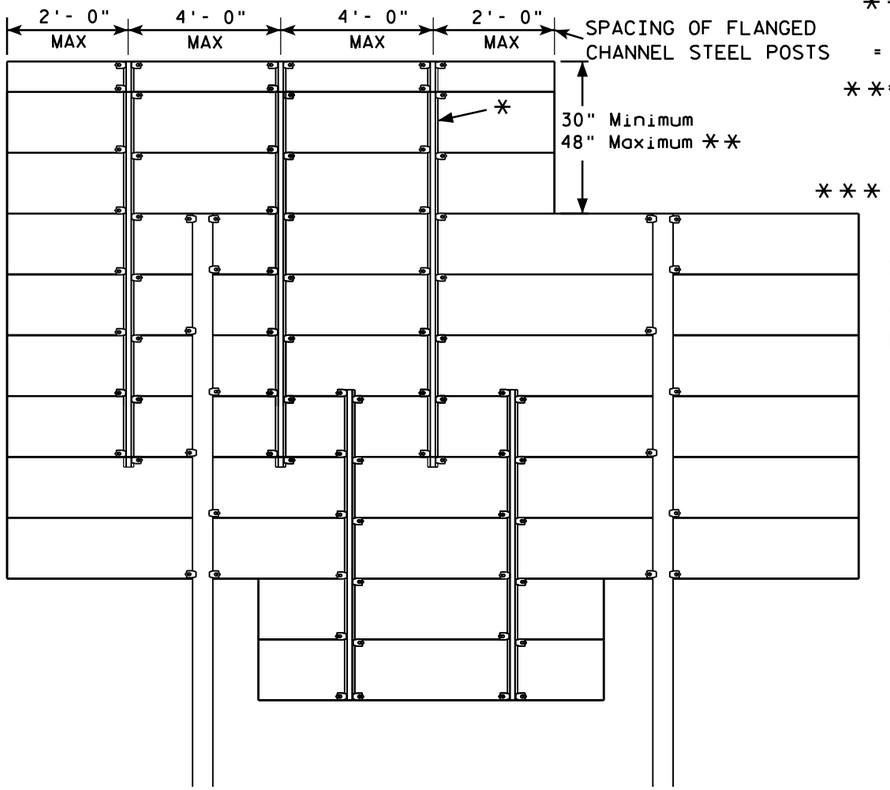
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4 14

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

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GROUND MOUNTED SIGN

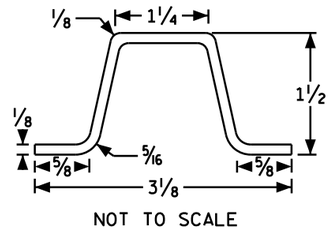


* =2.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

** =FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

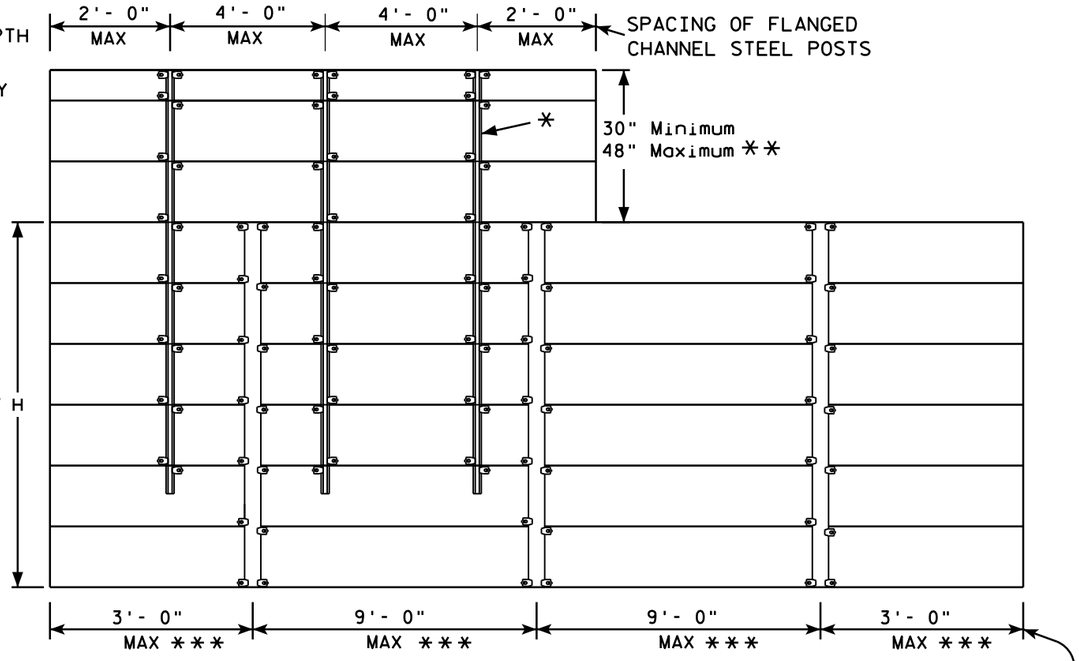
*** THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 16 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 16 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.

FLANGE CHANNEL DETAIL



NOT TO SCALE

SIGN BRIDGE MOUNTED SIGN



GENERAL NOTES

1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:

   PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS
   PANEL LENGTH 9'- 0" - 12'- 0" = 3 CHANNELS
   PANEL LENGTH 13'- 0" OR MORE = 4 CHANNELS

   If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.
3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.
4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.
5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)
6. Structural steel sign supports shall extend to the top of the main signs, as shown on the above details.

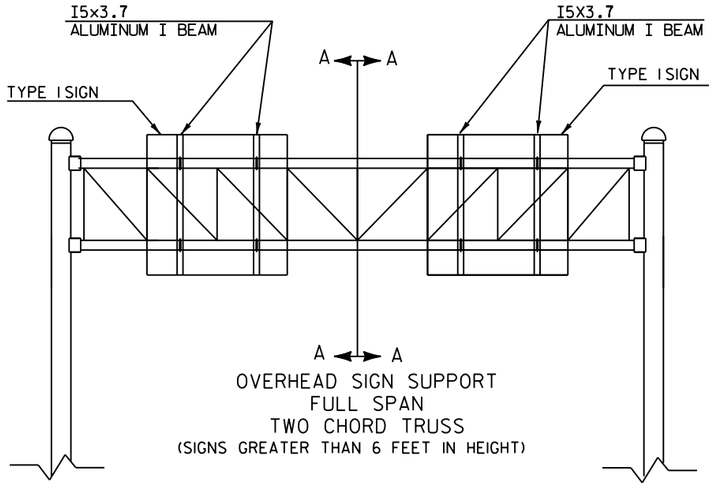
ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

WISCONSIN DEPT OF TRANSPORTATION

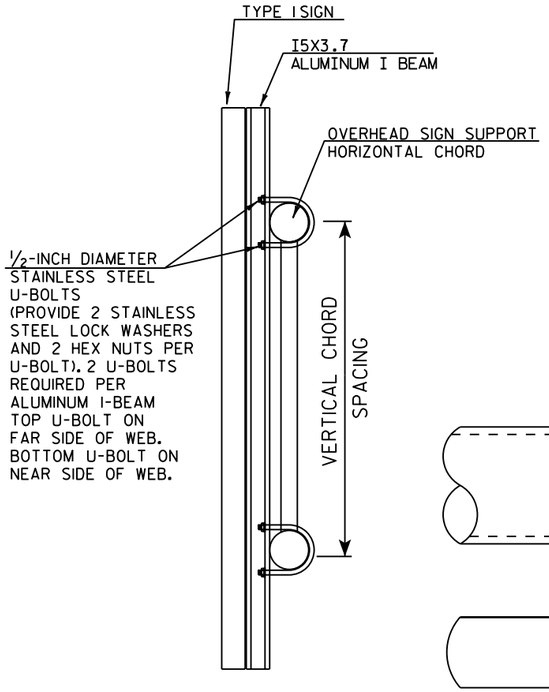
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/05/13 PLAT 360 A4-6.12

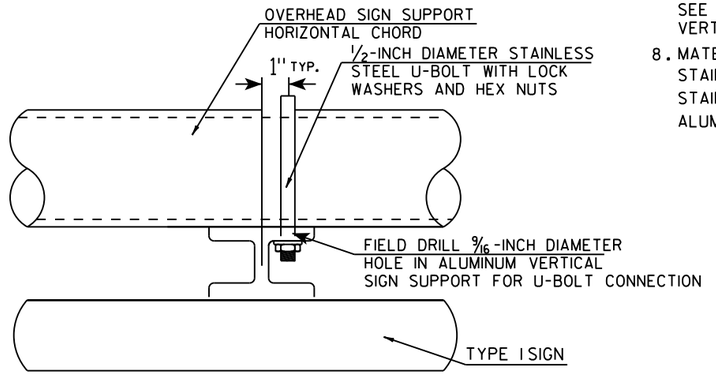
PROJECT NO: | SHEET NO: E



OVERHEAD SIGN SUPPORT
FULL SPAN
TWO CHORD TRUSS
(SIGNS GREATER THAN 6 FEET IN HEIGHT)



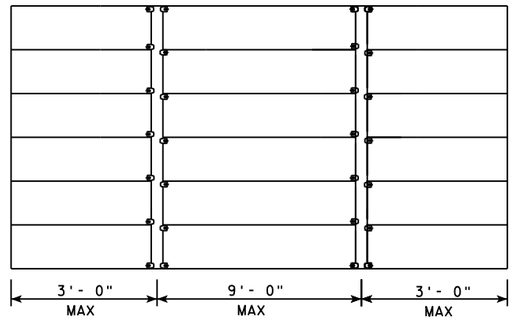
CUT SECTION A-A



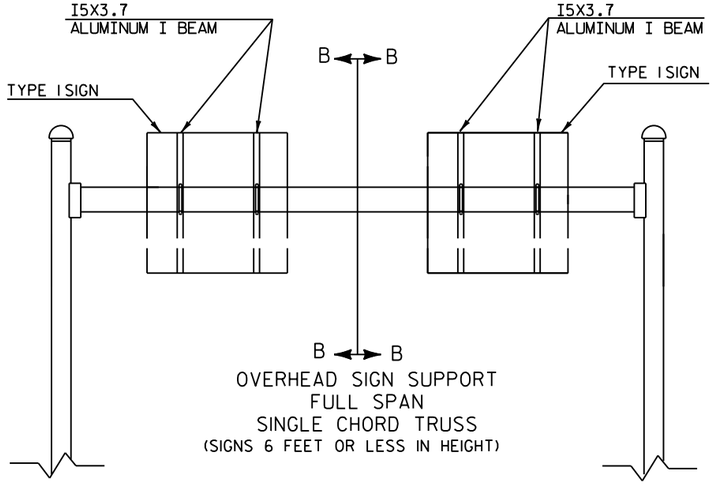
TYPICAL SIGN CONNECTION FOR
TWO CHORD TRUSS
PLAN VIEW

GENERAL NOTES

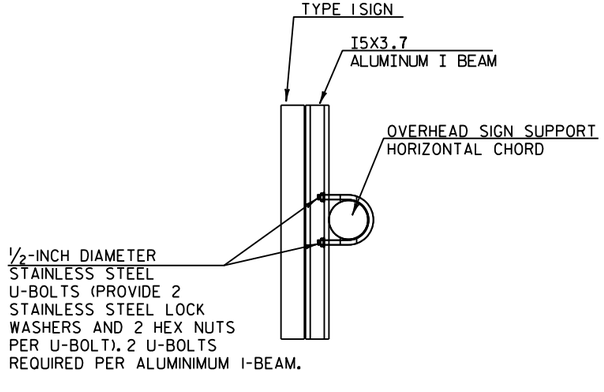
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE CLIPS ON EVERY EXTRUDED PANEL JOINT PER SIGN PLATE A4-6.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.
5. DIAMETER OF U-BOLTS SHALL BE AS SHOWN.
6. THE LENGTH OF THE ALUMINUM VERTICAL SIGN SUPPORT BEAMS SHALL BE THE SAME AS THE HEIGHT OF THE SIGN THEY ARE SUPPORTING. BEAM LENGTHS MAY BE LONGER FOR PROPER ATTACHMENT TO CHORDS.
7. MINIMUM NUMBER OF BRACKETS PER SIGN IS TWO. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
   STAINLESS STEEL U-BOLTS AND LOCKWASHERS ASTM 304.
   STAINLESS STEEL HEX NUTS ASTM A276.
   ALUMINUM I-BEAMS ARE 6061-T6.



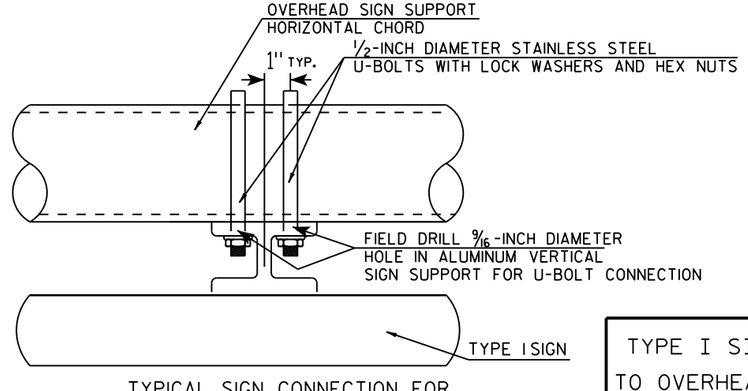
SPACING OF I5X3.7 ALUMINUM
VERTICAL SIGN SUPPORT



OVERHEAD SIGN SUPPORT
FULL SPAN
SINGLE CHORD TRUSS
(SIGNS 6 FEET OR LESS IN HEIGHT)



CUT SECTION B-B



TYPICAL SIGN CONNECTION FOR
SINGLE CHORD TRUSS
PLAN VIEW

TYPE I SIGN CONNECTION TO OVERHEAD SIGN SUPPORT

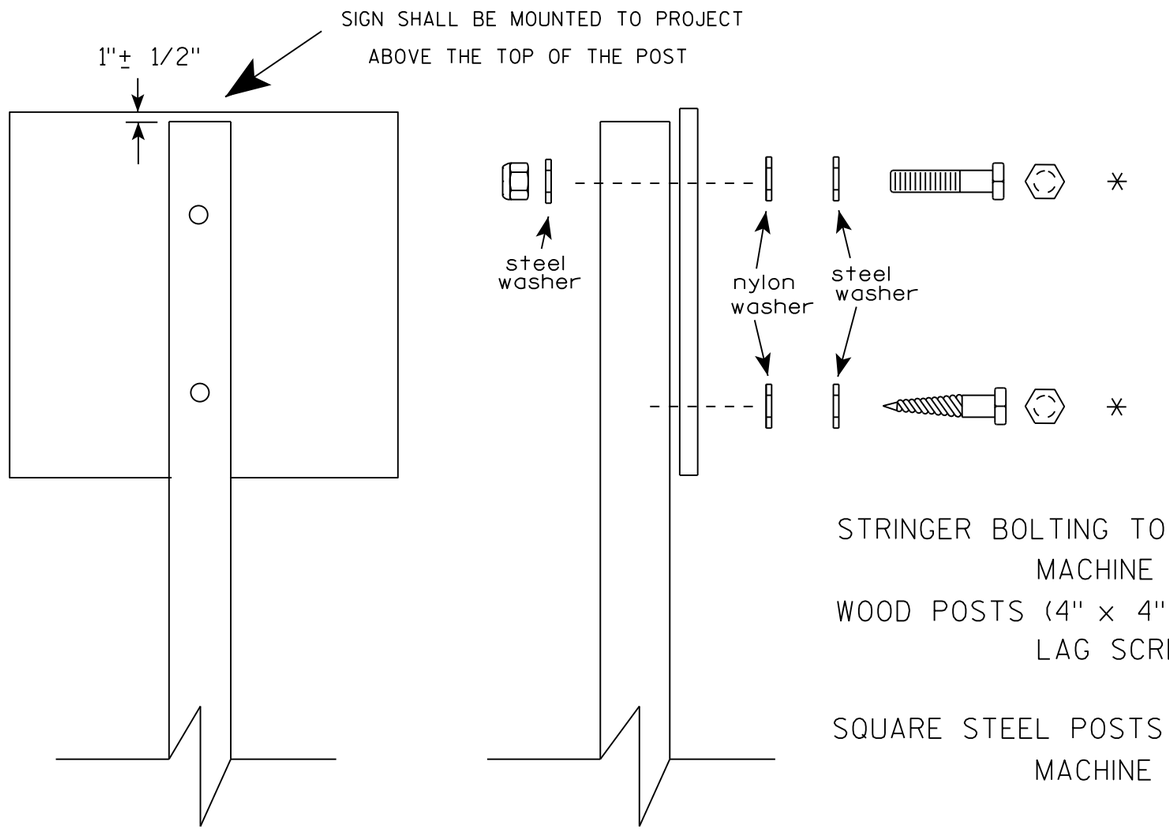
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 11/10/15 PLATE NO. A4-7.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A47.DGN PLOT DATE : 01-DEC-2015 17:42 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 38.916838:1.000000



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.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)

3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)

3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

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

* 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

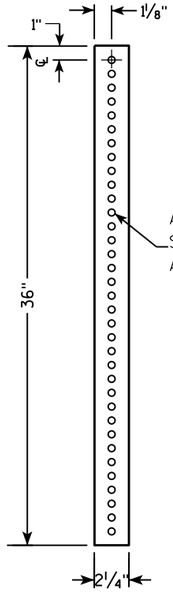
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

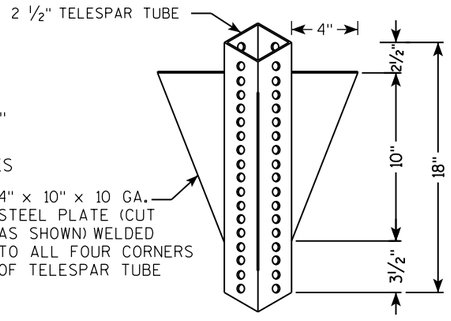
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

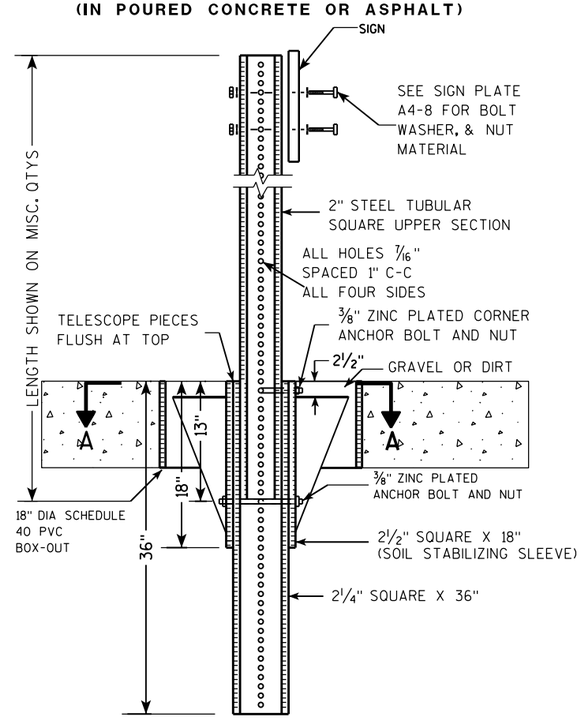
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



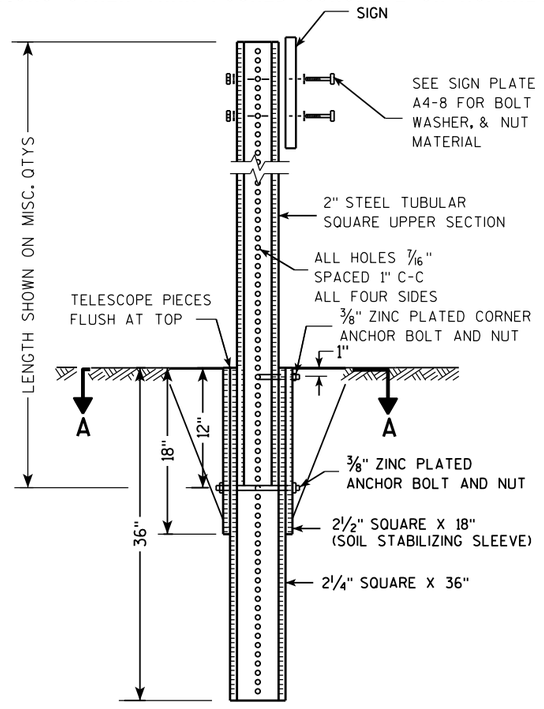
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

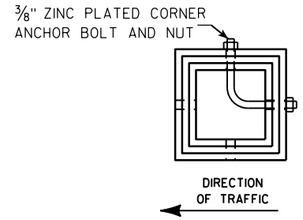


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

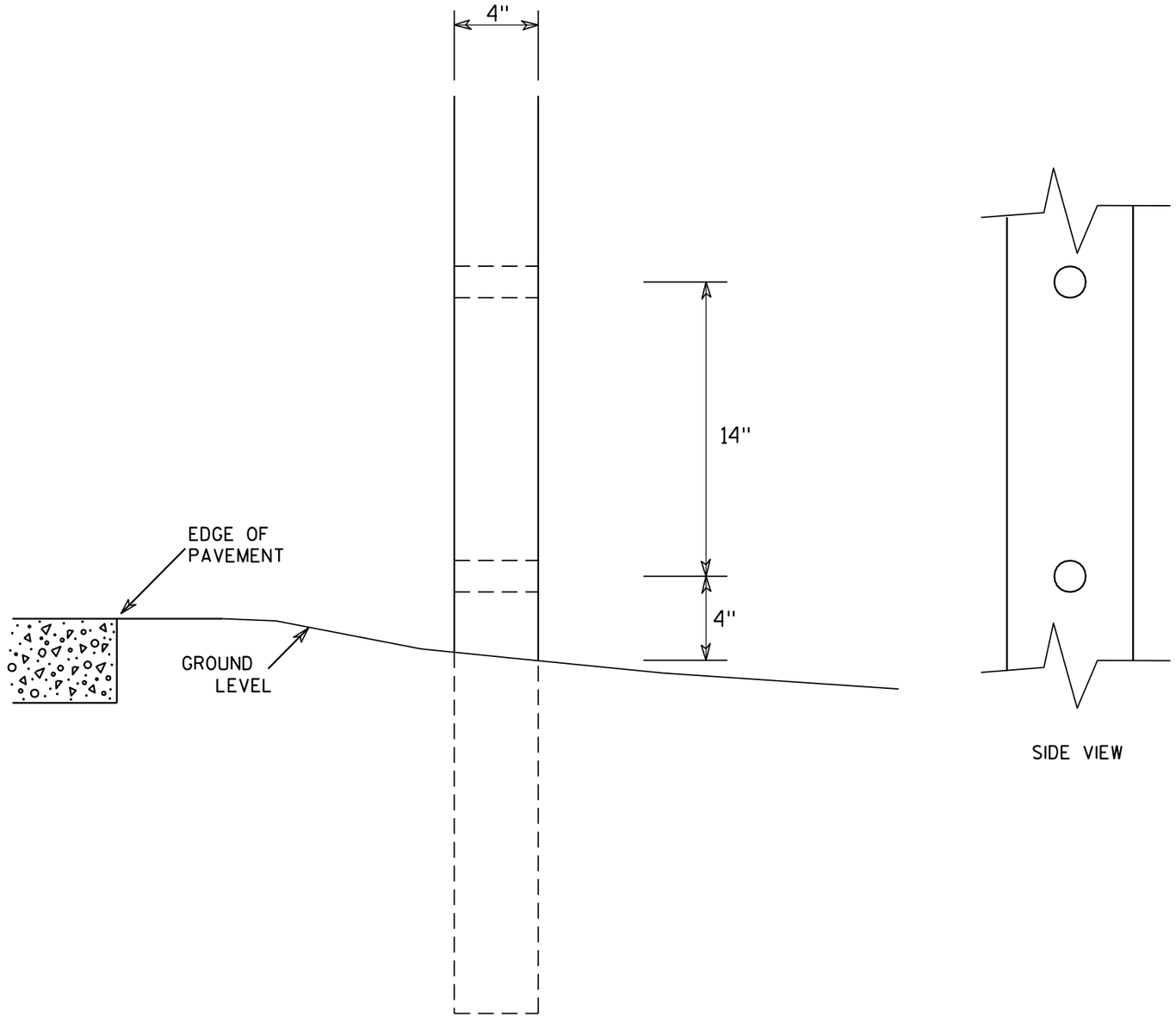
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000
WISDOT/CADDS SHEET 42



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

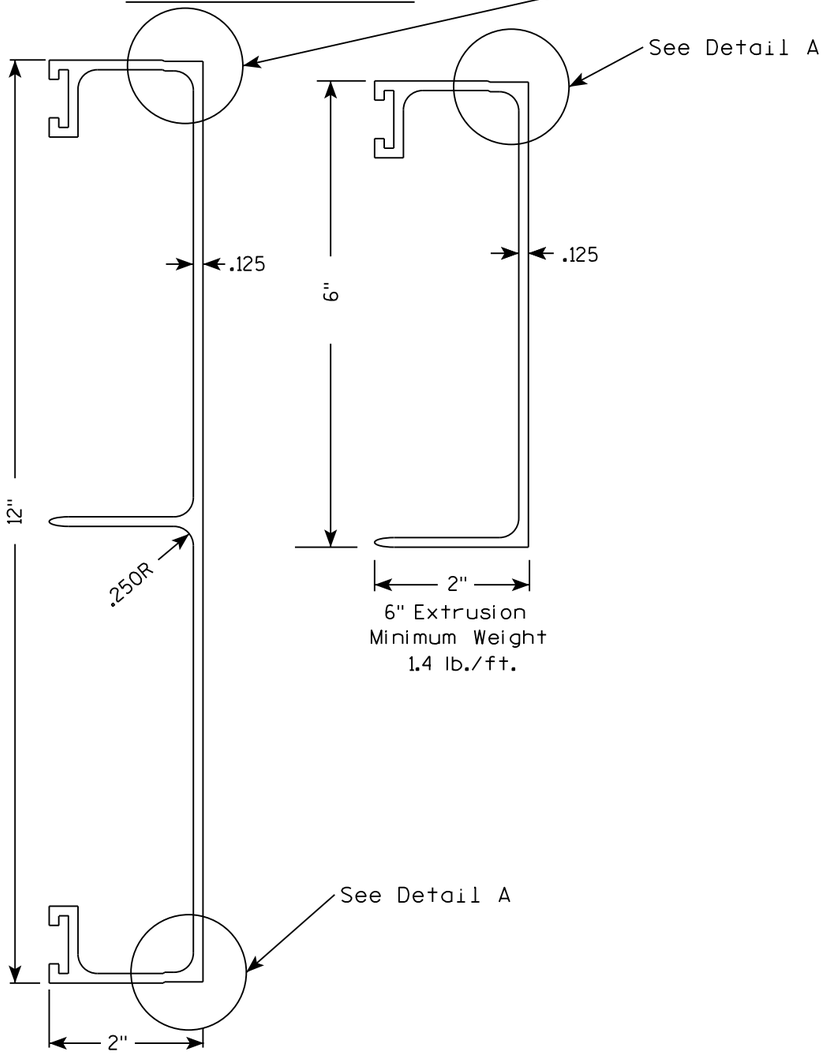
WISCONSIN DEPT OF TRANSPORTATION

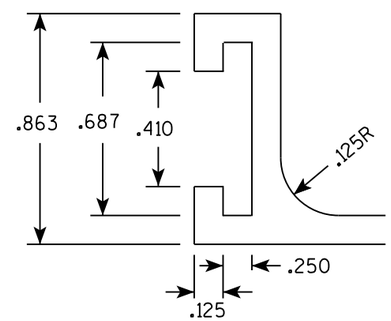
APPROVED Chester J Spang for State Traffic Engineer

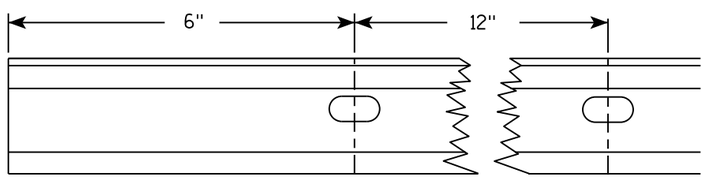
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 364	E

Extruded Shape







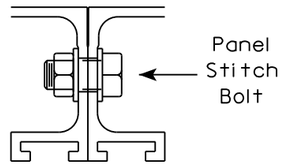
Punch 7/16" x 7/8" oval holes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.

Hardware

STITCH BOLT, WASHER & NUT

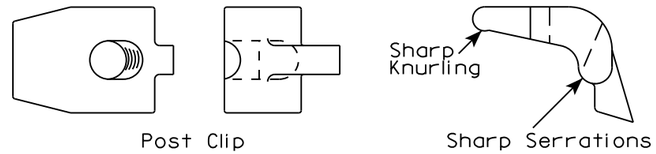
The hardware includes:

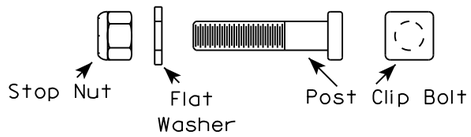
3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy
3/8 " - Stainless steel stop nut
3/8" X .064 Flat Washers, Alclad 2024-T4 alloy



POST CLIP, POST CLIP BOLT, WASHER & NUT

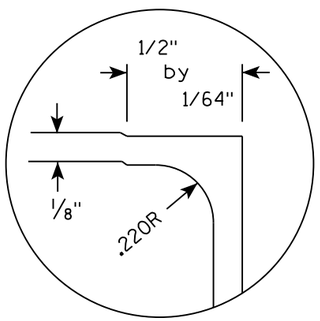
Post Clip shall be Alum. Alloy 356-T6
Post Clip Bolt shall be Stainless Steel.
Flat washer shall be 3/8" X .091, Stainless Steel.
Stop nut shall be stainless steel.





NOTES

1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.
3. Post Clips shall be used to attach the sign panel to the sign support.
4. Edge wrapping of sign sheeting required on all extrusions joints shown in Detail A.



DETAIL A (EDGE WRAP JOINT)

ALUMINUM EXTRUSIONS FOR TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

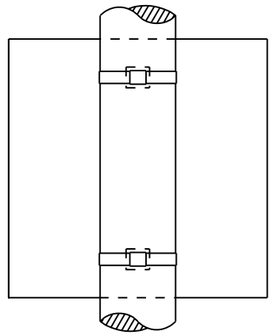
APPROVED Matthew R Rauch
for State Traffic Engineer

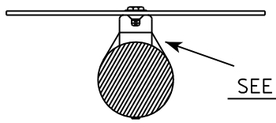
DATE 11/30/16 PLATE NO. A5-2.10

PROJECT NO:				SHEET NO: 365	E

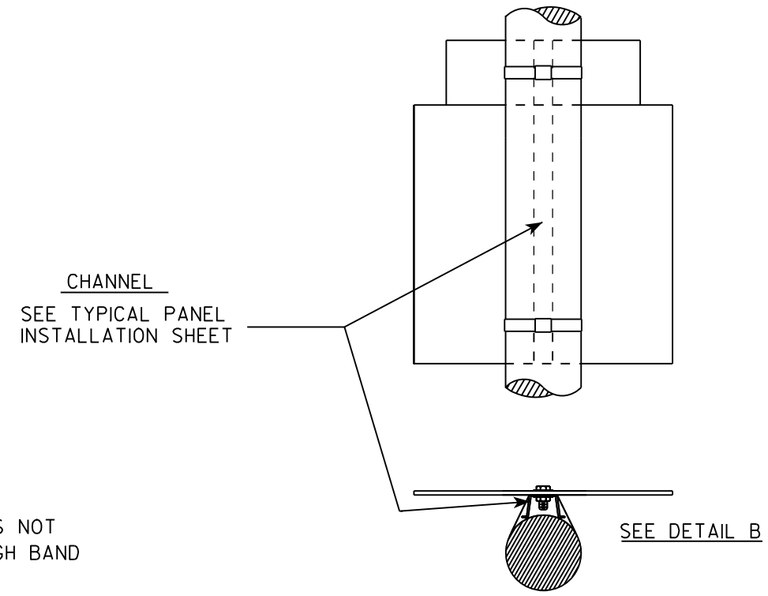
BANDING

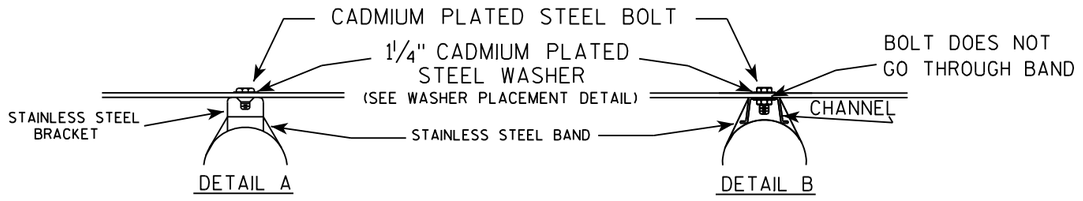
SINGLE SIGN



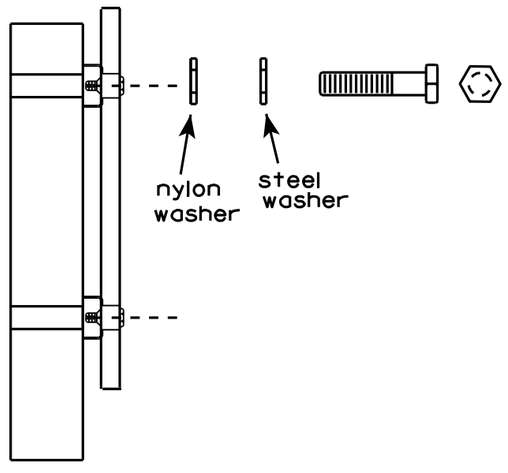


"J" ASSEMBLY





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

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

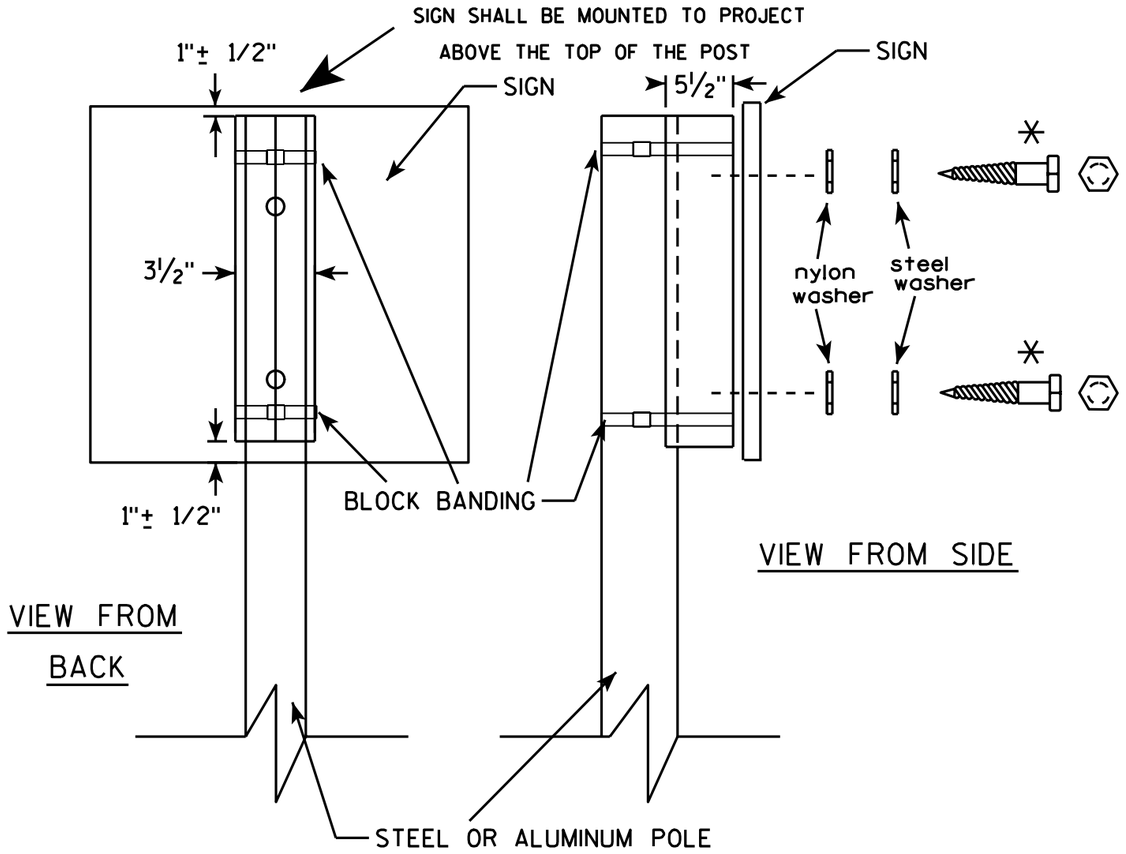
STANDARD SIGN
SIGN BANDING DETAILS

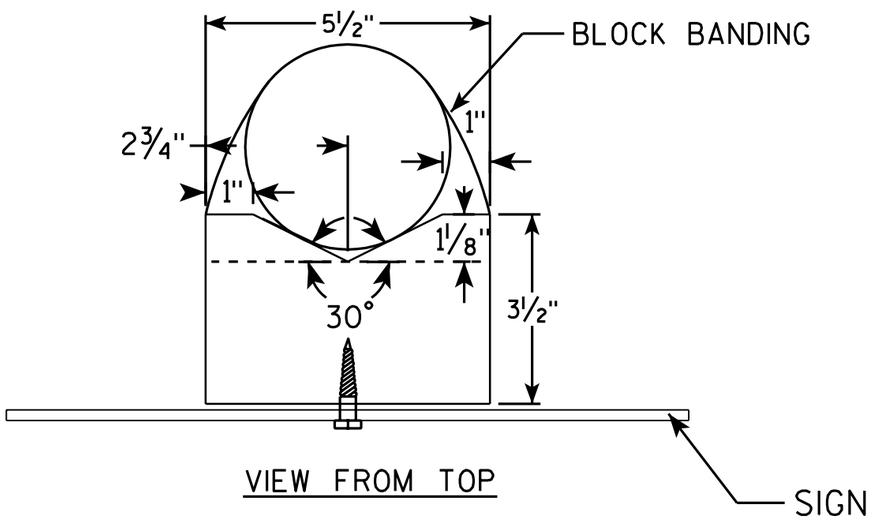
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 366	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

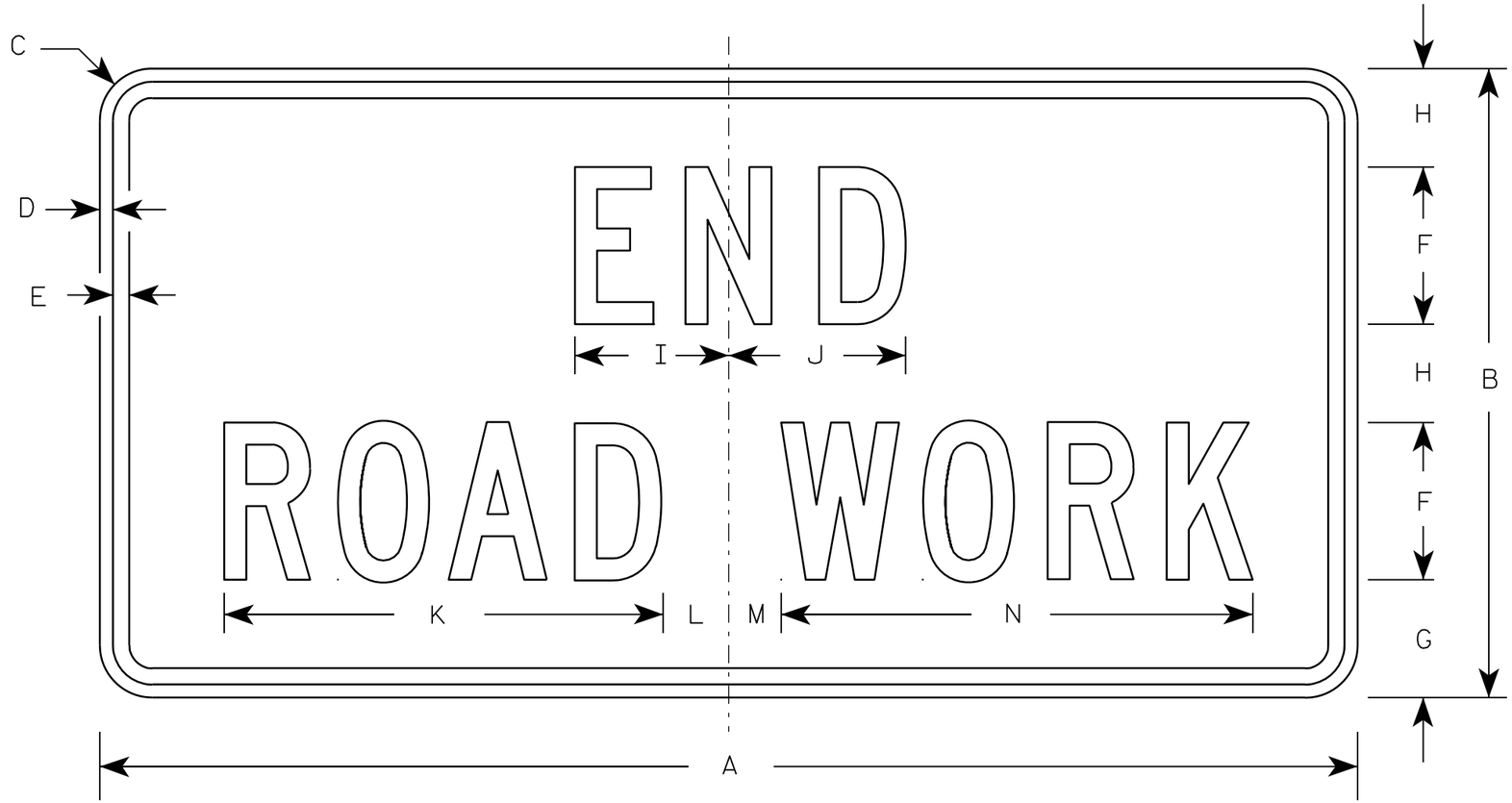
DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 367 E

FILE NAME : C:\Users\Projects\tr_stdplate\A510.dgn PLOT DATE : 06-AUG-2007 13:37 PLOT BY : ditjph

WISDOT/CADDS SHEET 42



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
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.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 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	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

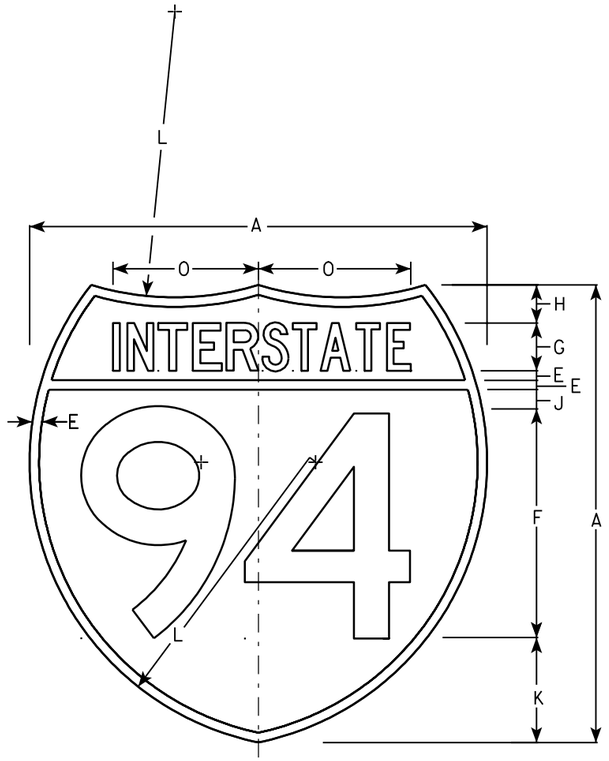
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

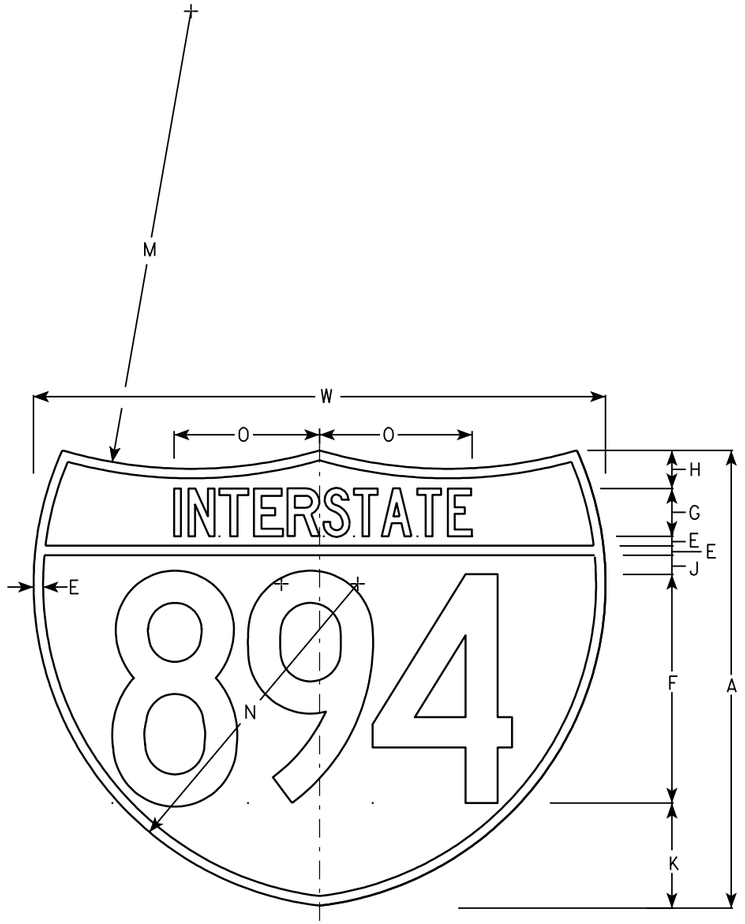
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 368	E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 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	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

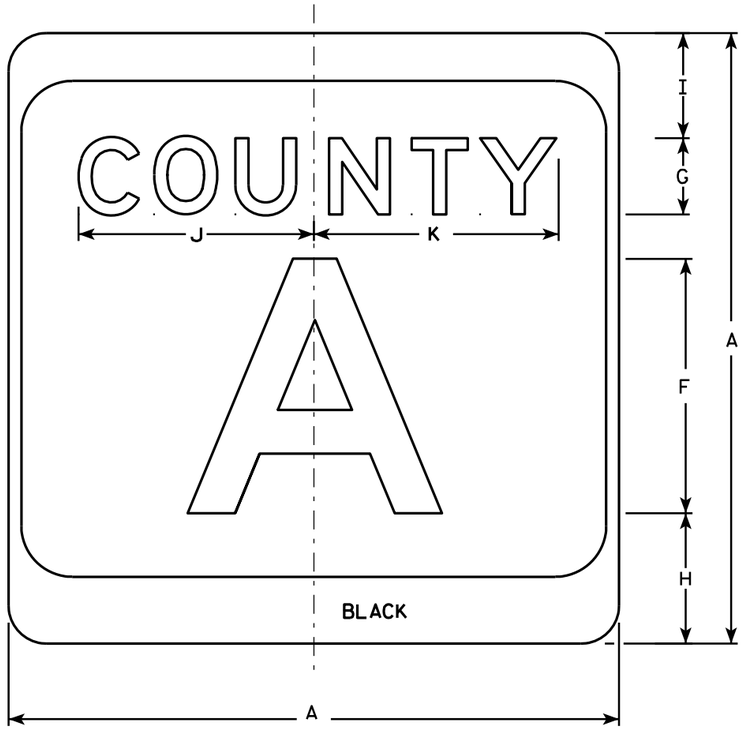
INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

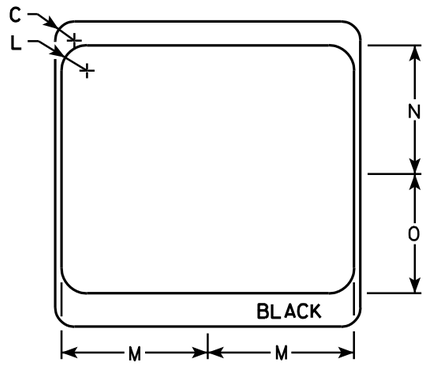
APPROVED Matthew R Rauch
for State Traffic Engineer

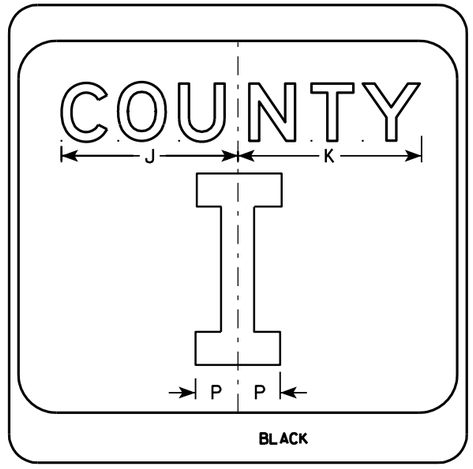
DATE 08/23/05 PLATE NO. M1-1.8

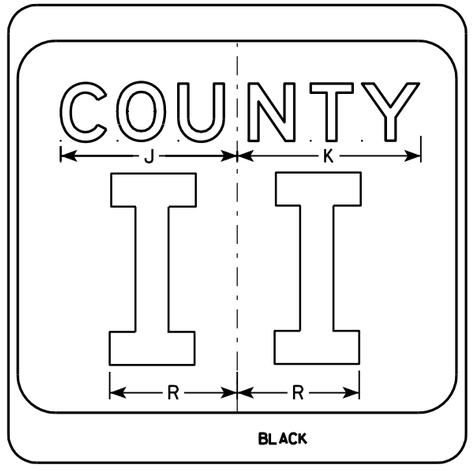
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 369	E



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

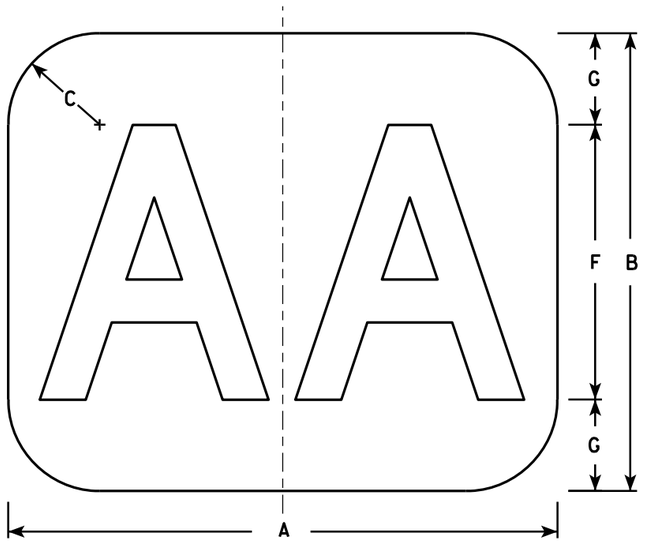
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

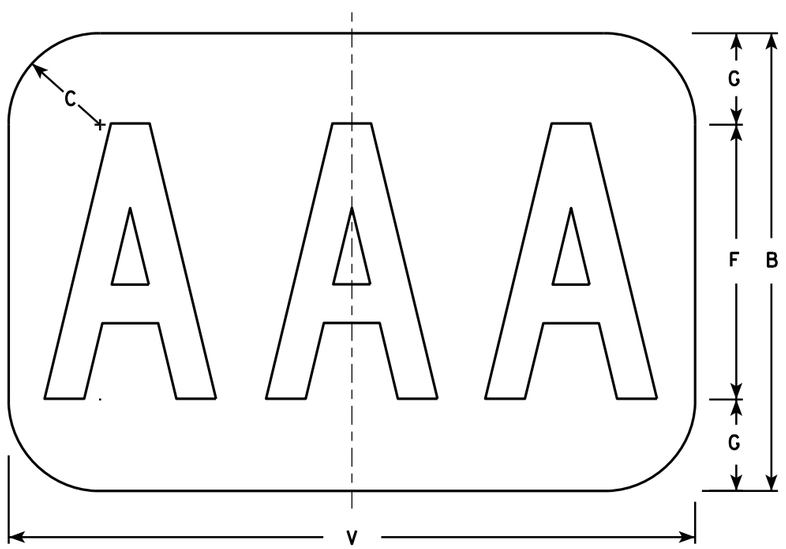
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 370 | E



M1-55



M1-55A

NOTES

1. Sign is Type II - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5
4. The marker shall consist of a non-corrosive metal plate, 0.040 minimium thickness of the size and shape of the outline.
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.
   Substitute appropriate letters and optically adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	M1-55	M1-55A
1		
2		
3		
4	600 mm X 500 mm	750 mm X 500 mm
5	900 mm X 750 mm	1125 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	2 Digit Area sq. ft.	3 Digit Area sq. ft.	2 Digit Area m2	3 Digit Area m2
1																														
2																														
3																														
4	24	20	4			12	4															30					3.33	4.17	.30	.38
5	36	30	6			18	6															45					7.50	9.38	.68	.84

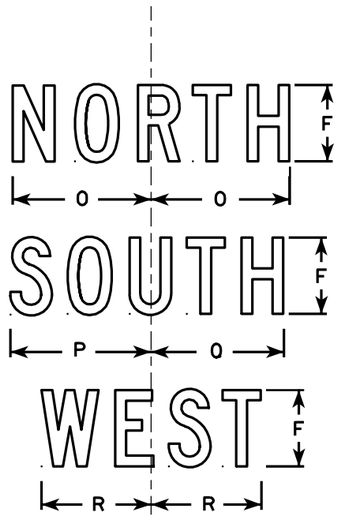
CTH MARKER
M1-55 FOR GUIDE SIGNS

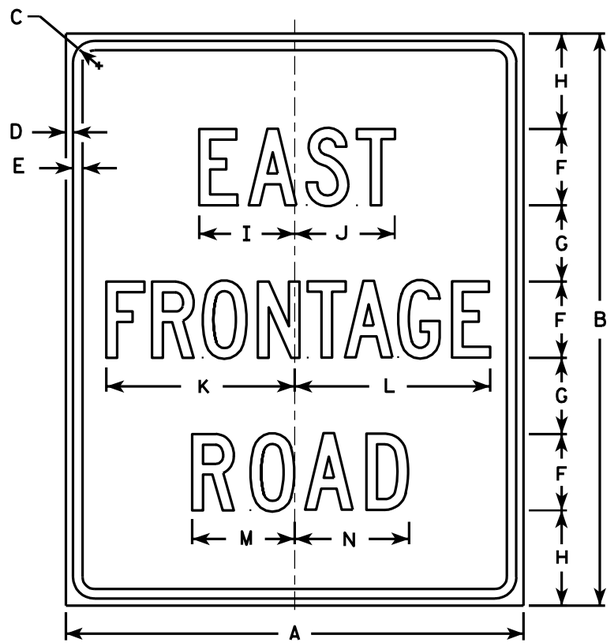
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. M1-55.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 371 | 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. 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. Substitute appropriate message as required.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 750 mm
3	
4	900 mm X 1050 mm
5	

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.	Area m2
1																												
2	24	30	1 1/8	3/8	1/2	4	4	5	5	5 1/4	9 7/8	10 1/4	5 3/8	6	7 1/4	7 3/8	7	5 3/4									5.0	.45
3																												
4	36	42	1 3/8	5/8	5/8	6	5	7	7 1/2	7 7/8	14 3/4	15 3/8	8	9	10 7/8	11	10 1/2	8 5/8									10.5	.95
5																												

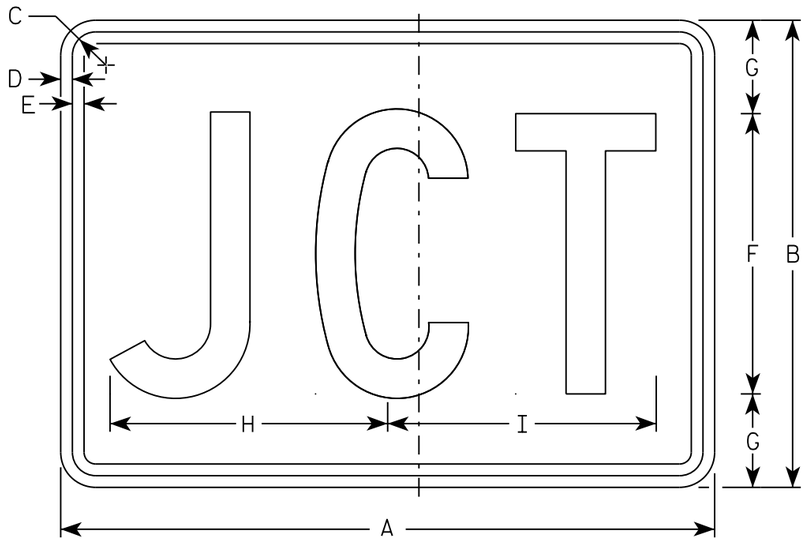
STANDARD SIGN
M1-95A

WISCONSIN DEPT OF TRANSPORTATION

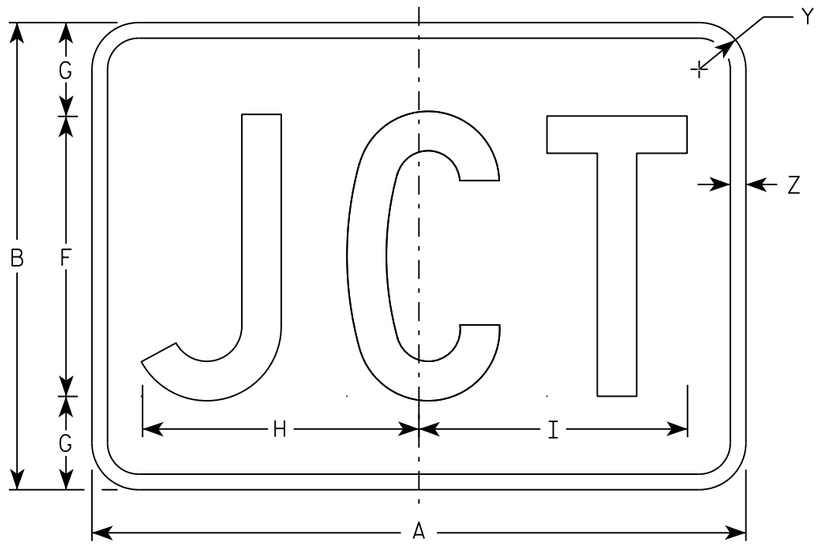
APPROVED Chester J Spang for State Traffic Engineer

DATE 1/30/02 PLATE NO. M1-95A.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 372 | E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
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
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

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	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
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
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
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

STANDARD SIGN
M2-1

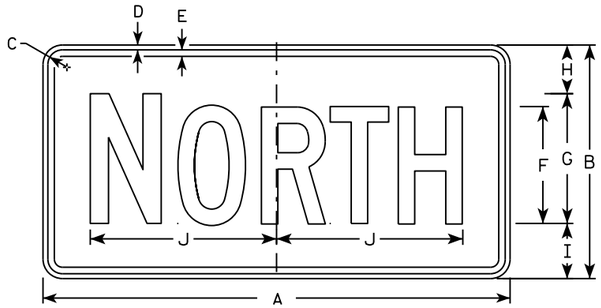
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

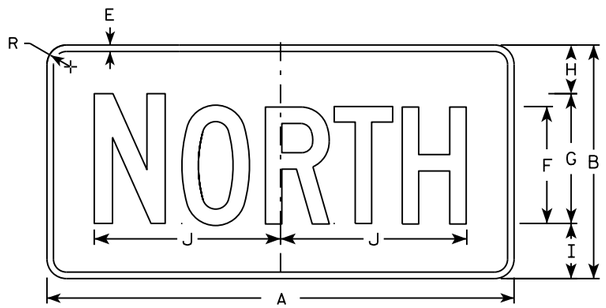
DATE 10/15/15 PLATE 373 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



M3-1
MM3-1
MP3-1



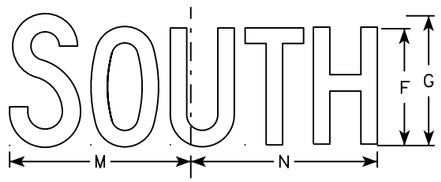
MB3-1
MK3-1
MN3-1



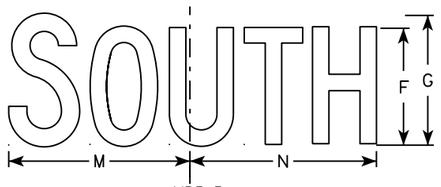
M3-2
MM3-2
MP3-2



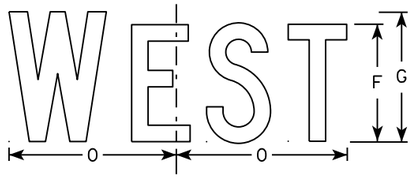
MB3-2
MK3-2
MN3-2



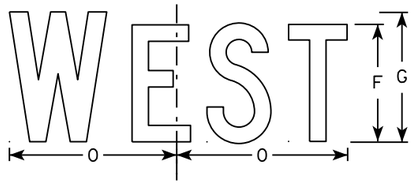
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
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
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
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

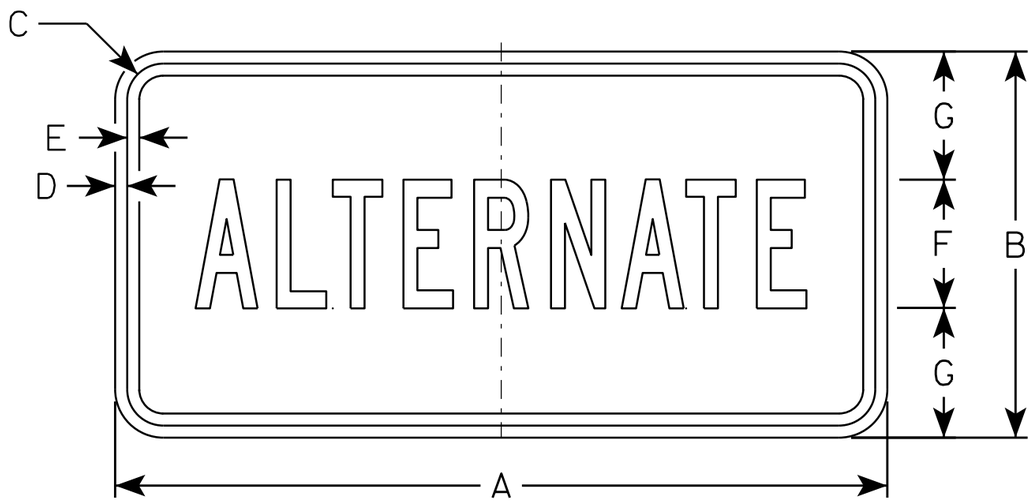
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

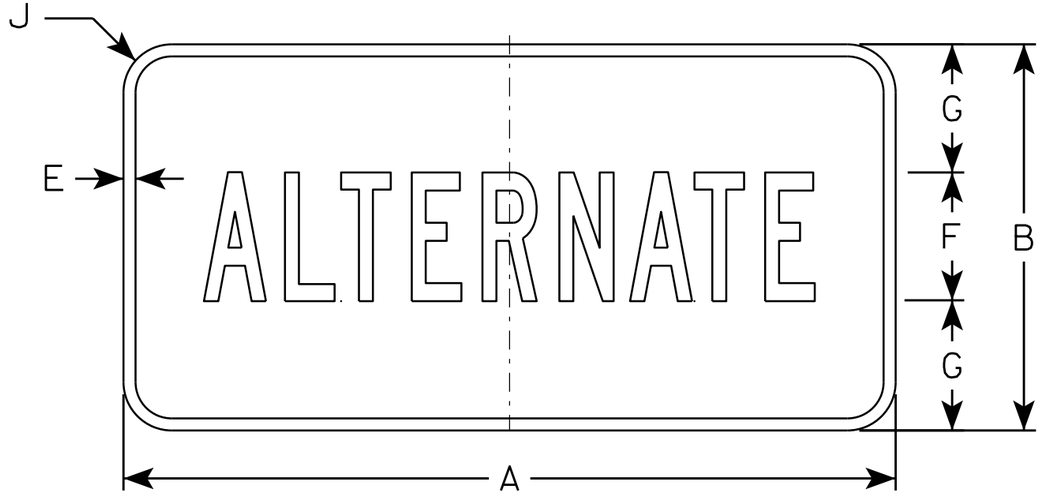
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-1
M04-1



MB4-1

NOTES

1. Sign is Type II - Type H except as Shown
2. Color:
   Background - See Note 5
   Message - See note 5
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.
5. M4-1 Background - White
   Message - Black

   MB4-1 Background - Blue
   Message - White

   M04-1 Background - Orange - Type F
   Message - Black

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	4	4	9 3/4	9 1/2	1 1/2																	2.00
3	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
4	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5
5	36	18	1 1/8	3/8	1/2	7	5 1/2	16 3/8	16 1/2	1 1/2																	4.5

STANDARD SIGN
M4-1

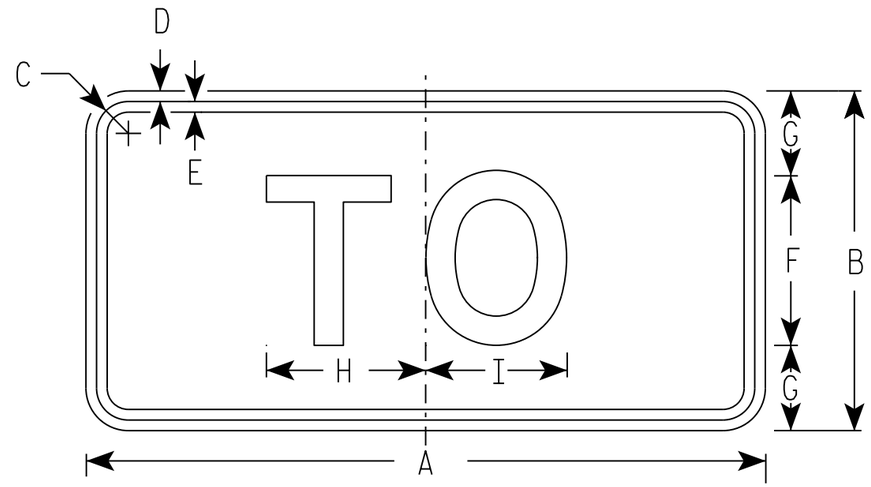
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

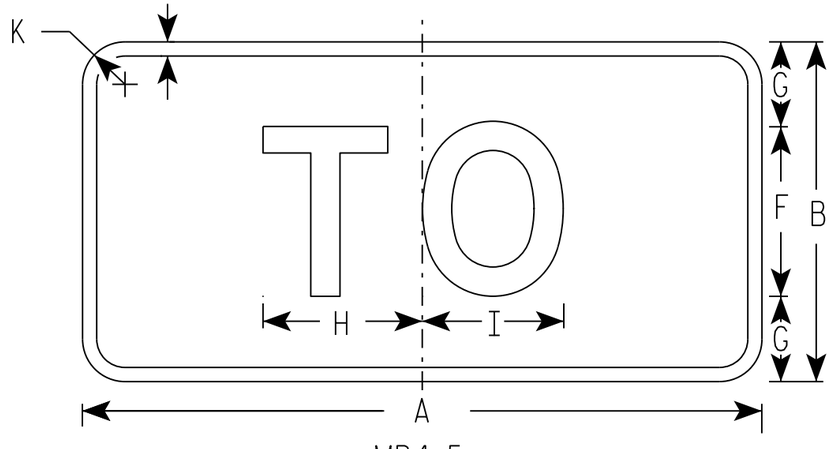
DATE 6/30/14 PLATE 14-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M41.DGN PLOT DATE : 30-JUN-2014 15:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 4.708937:1.000000 WISDOT/CADDS SHEET 42



M4-5
MM4-5
MP4-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
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. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

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	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-5

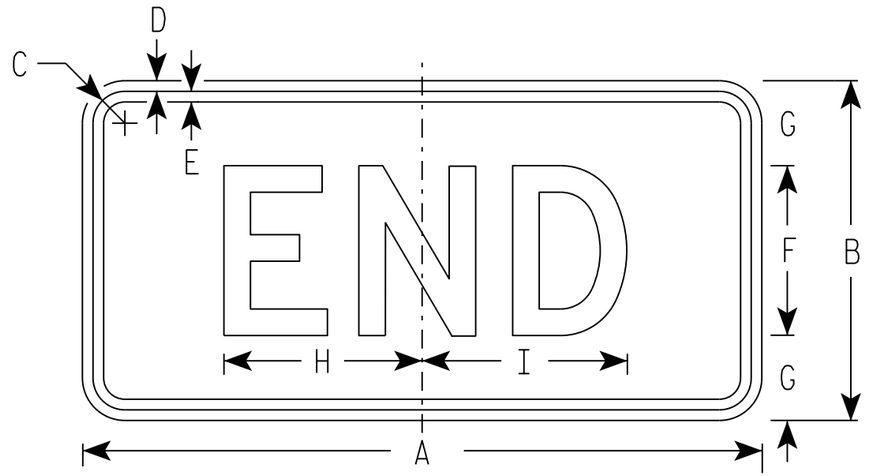
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

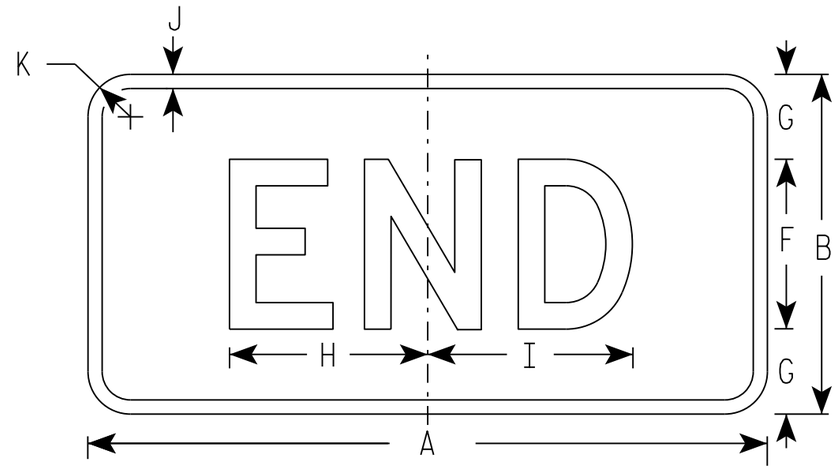
DATE 10/15/15 PLATE 376 M4-5.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M45.DGN PLOT DATE : 01-DEC-2015 17:55 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000



M4-6
MM4-6
MP4-6



MB4-6
MK4-6
MN4-6
MR4-6

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
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.
5. M4-6 Background - White
   Message - Black

   MB4-6 Background - Blue
   Message - White

   MK4-6 Background - Green
   Message - White

   MM4-6 Background - White
   Message - Green

   MN4-6 Background - Brown
   Message - White

   MP4-6 Background - White
   Message - Blue

   MR4-6 Background - Brown
   Message - Yellow

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	3	7	7 1/4	1/2	1 1/2																2.00
3	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
4	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5
5	36	18	1 1/8	3/8	1/2	9	4 1/2	12	11 7/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-6

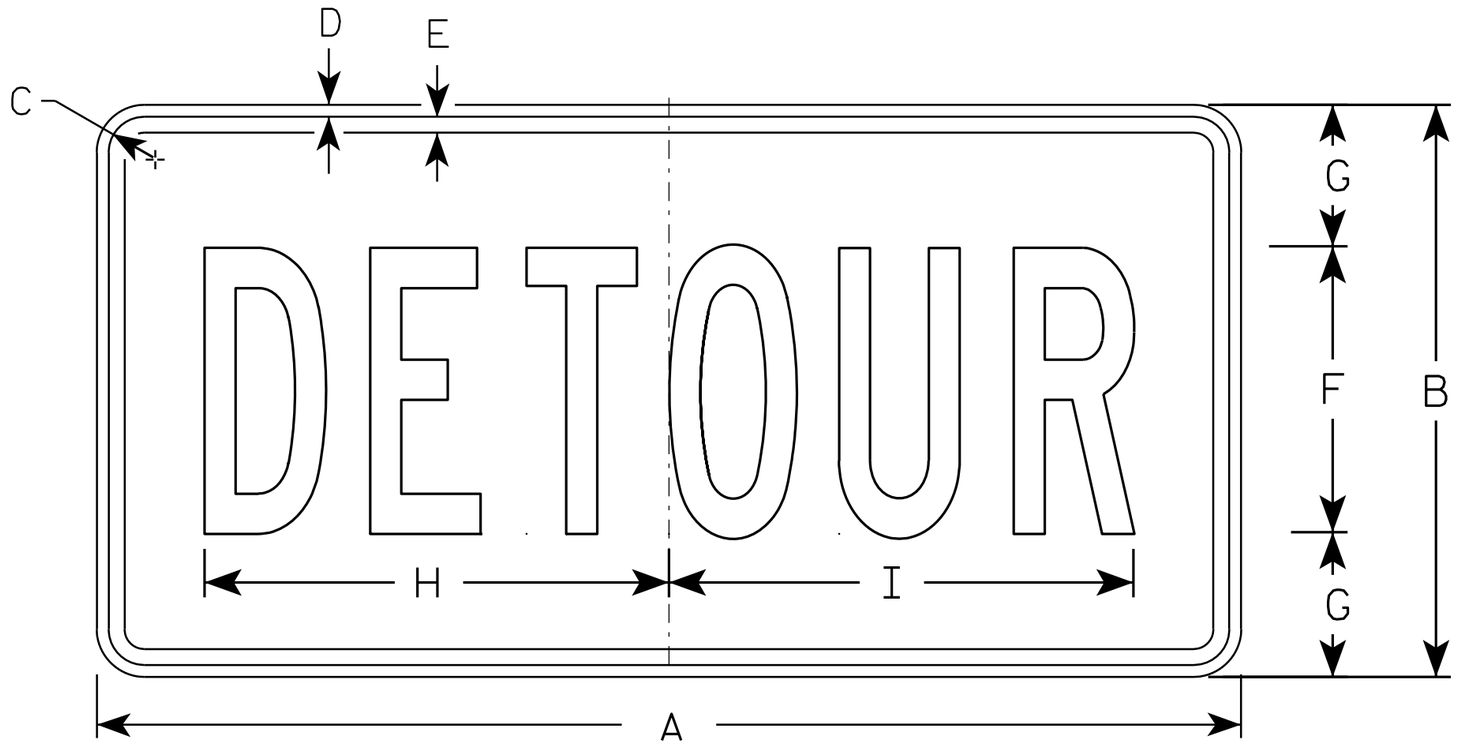
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 377 '14-7.9

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M46.DGN PLOT DATE : 01-DEC-2015 17:55 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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.

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	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

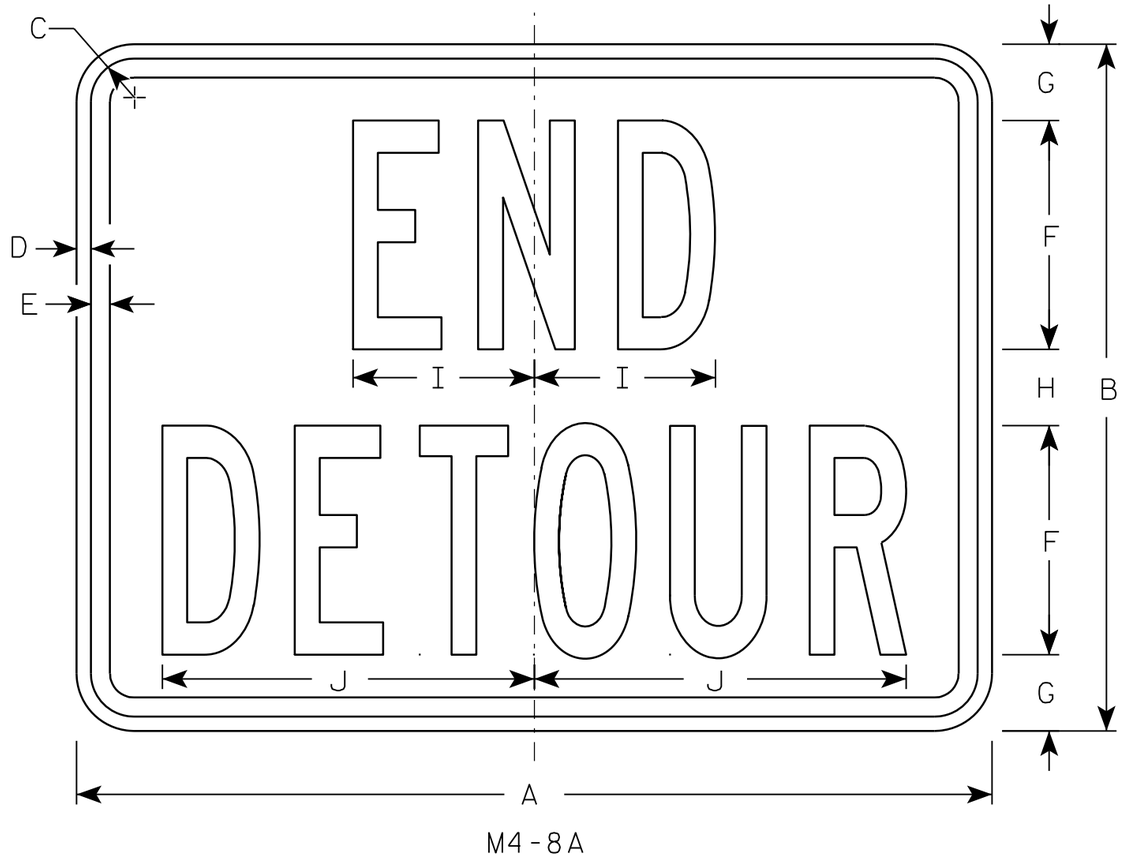
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 378	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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.

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	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

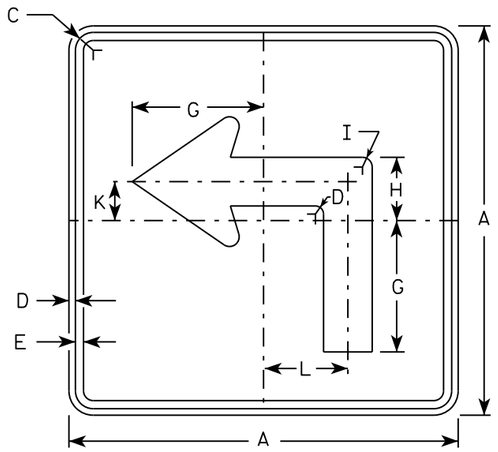
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

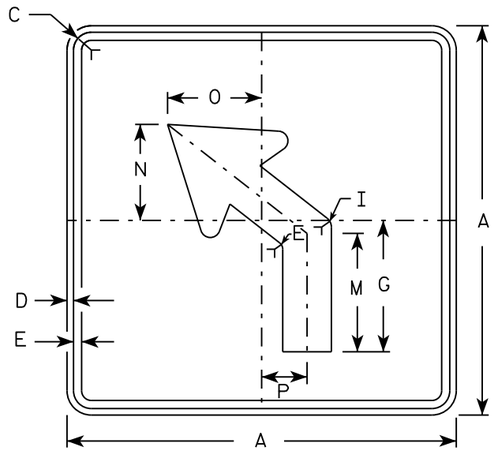
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

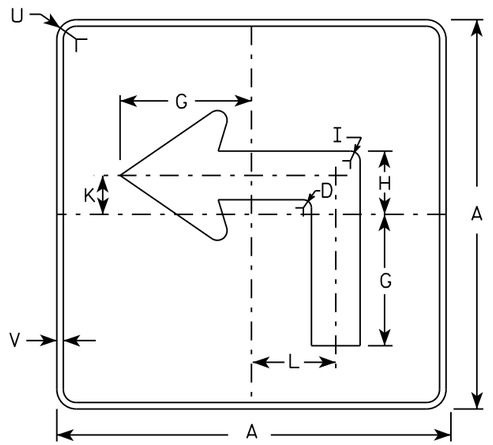
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 379	E



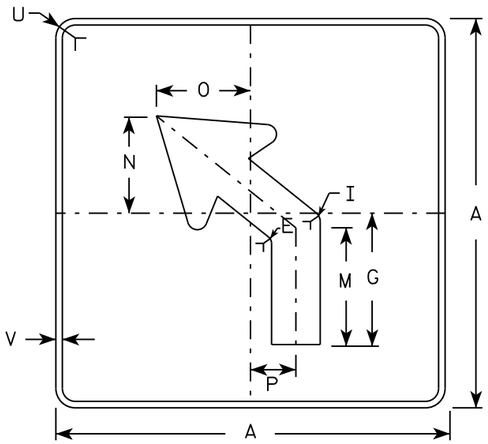
M5-1L
MM5-1L
MO5-1L
MP5-1L



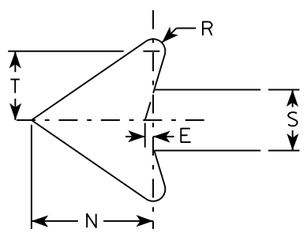
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
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. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

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	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

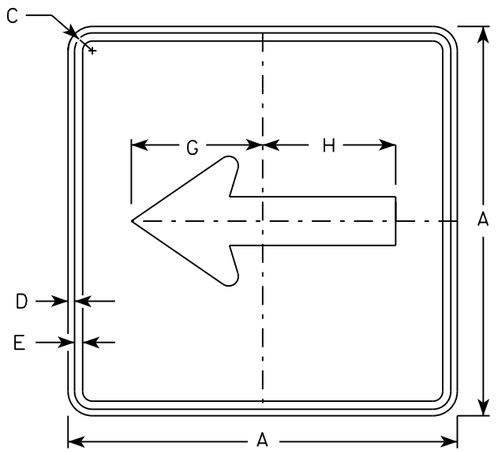
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

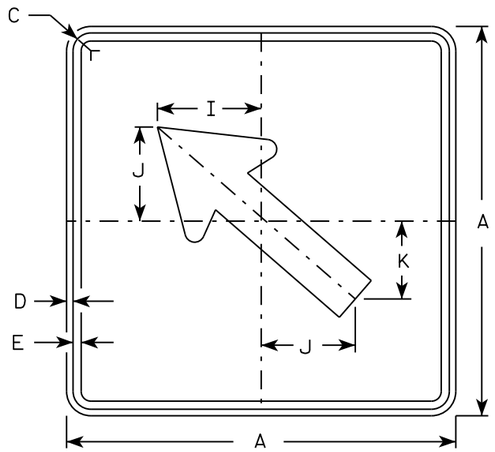
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



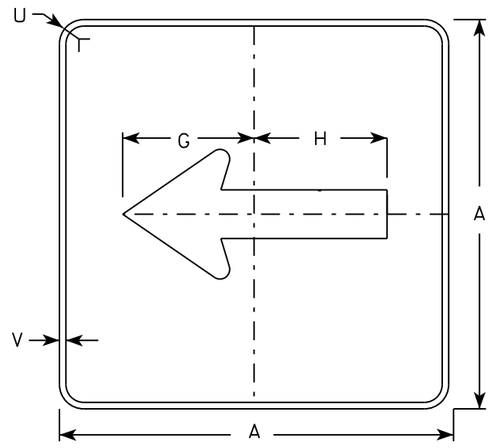
M6-1
MM6-1
MO6-1
MP6-1



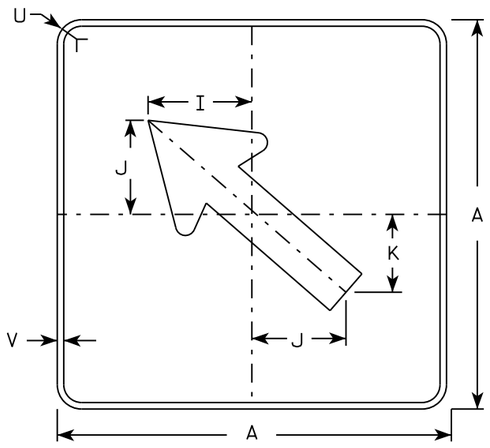
M6-2
MM6-2
MO6-2
MP6-2

NOTES

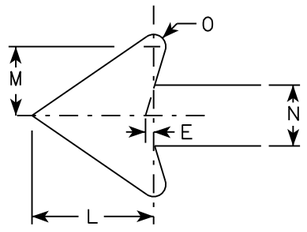
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



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	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
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
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
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

STANDARD SIGN
M6-1 & M6-2
SERIES

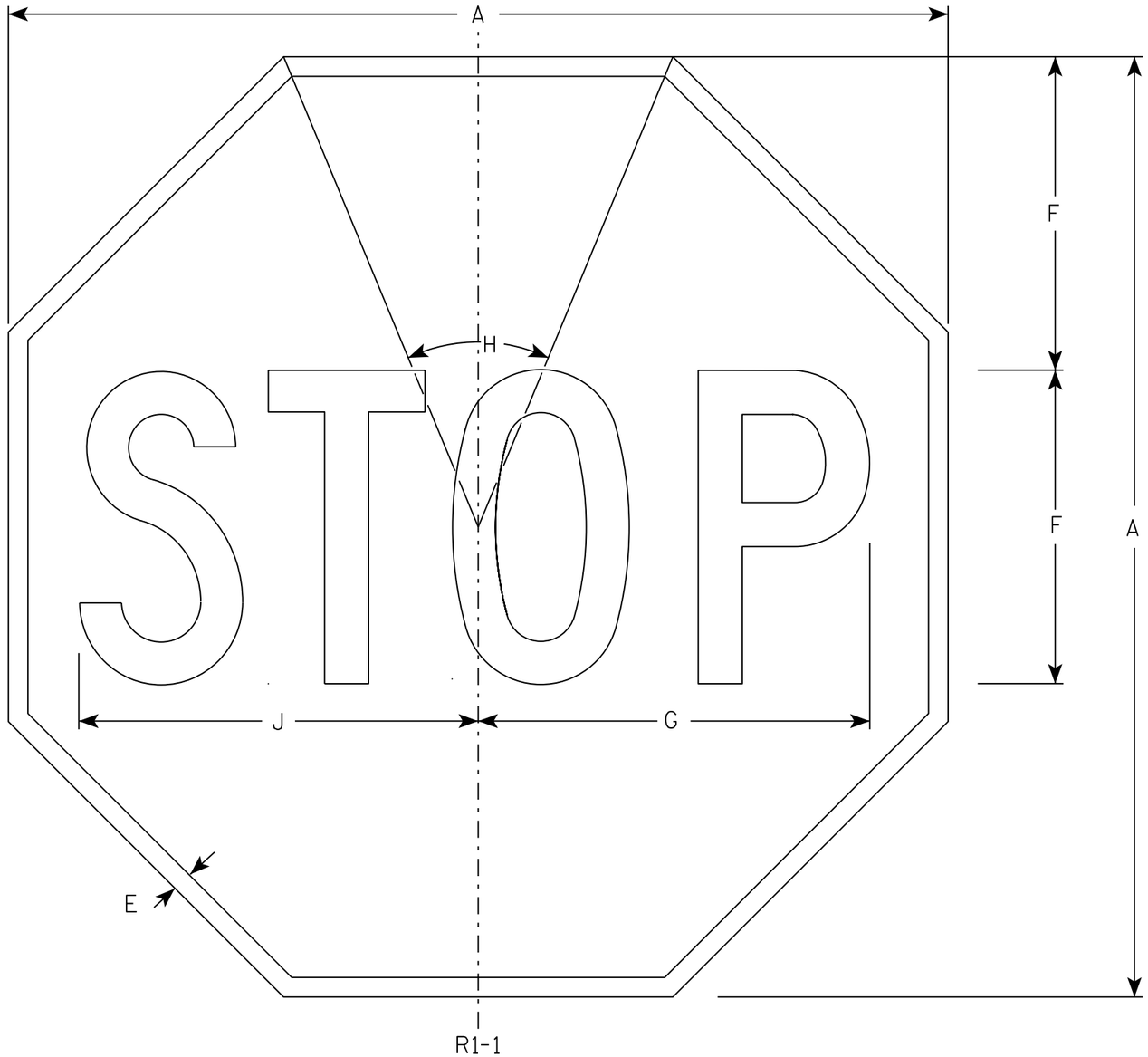
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 381 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



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	30				5/8	10	12 1/2	45°		12 3/4																	5.18
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

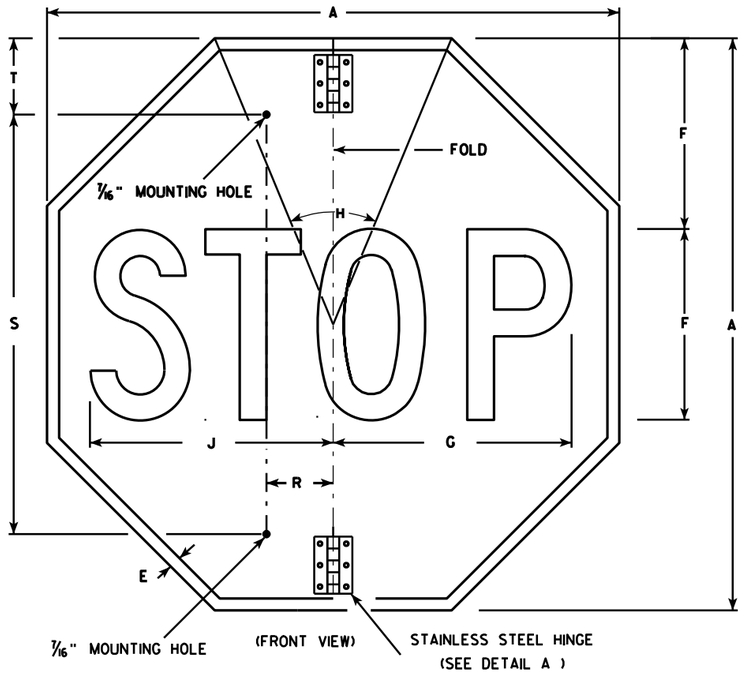
WISCONSIN DEPT OF TRANSPORTATION

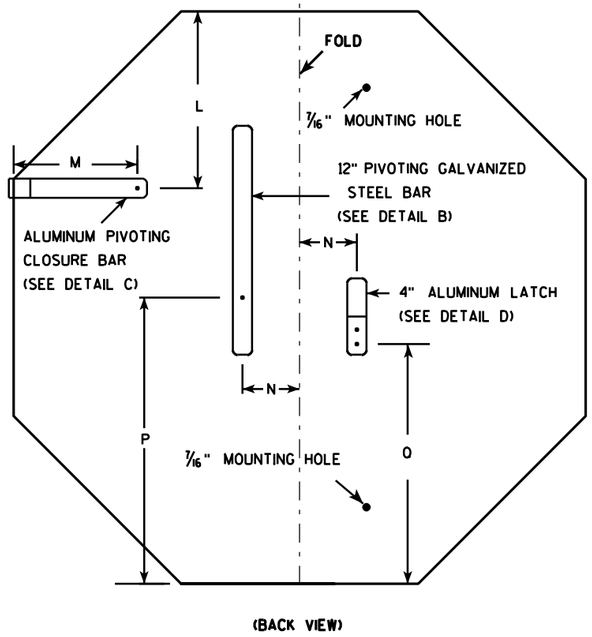
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

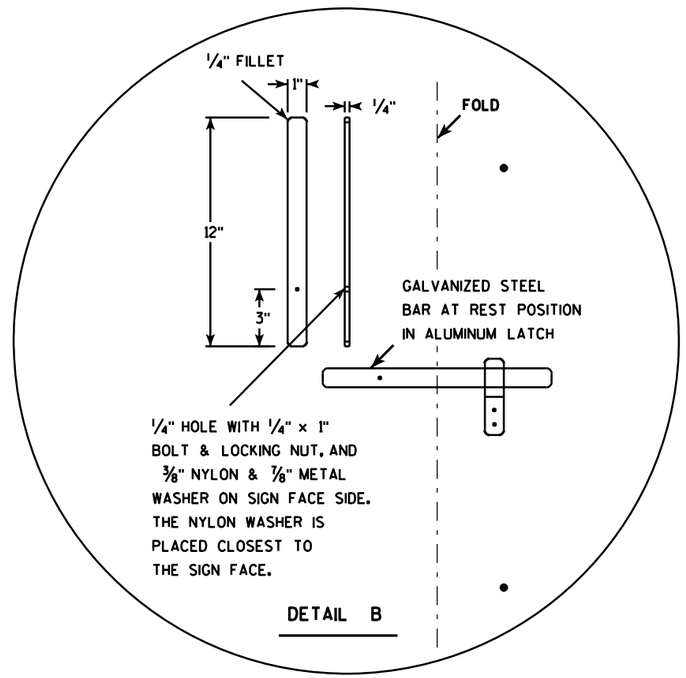
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.378143:1.000000



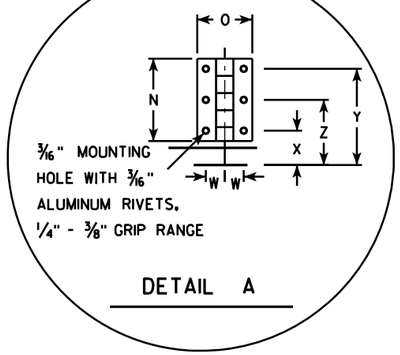


NOTES

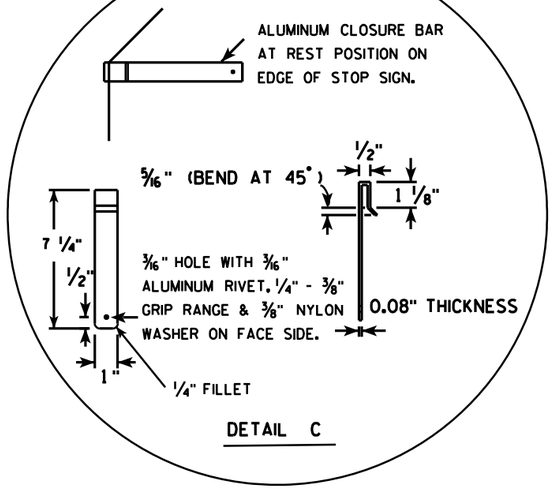
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



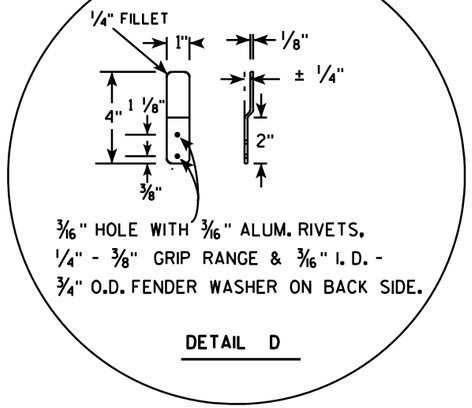
DETAIL B



DETAIL A



DETAIL C



DETAIL D

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	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

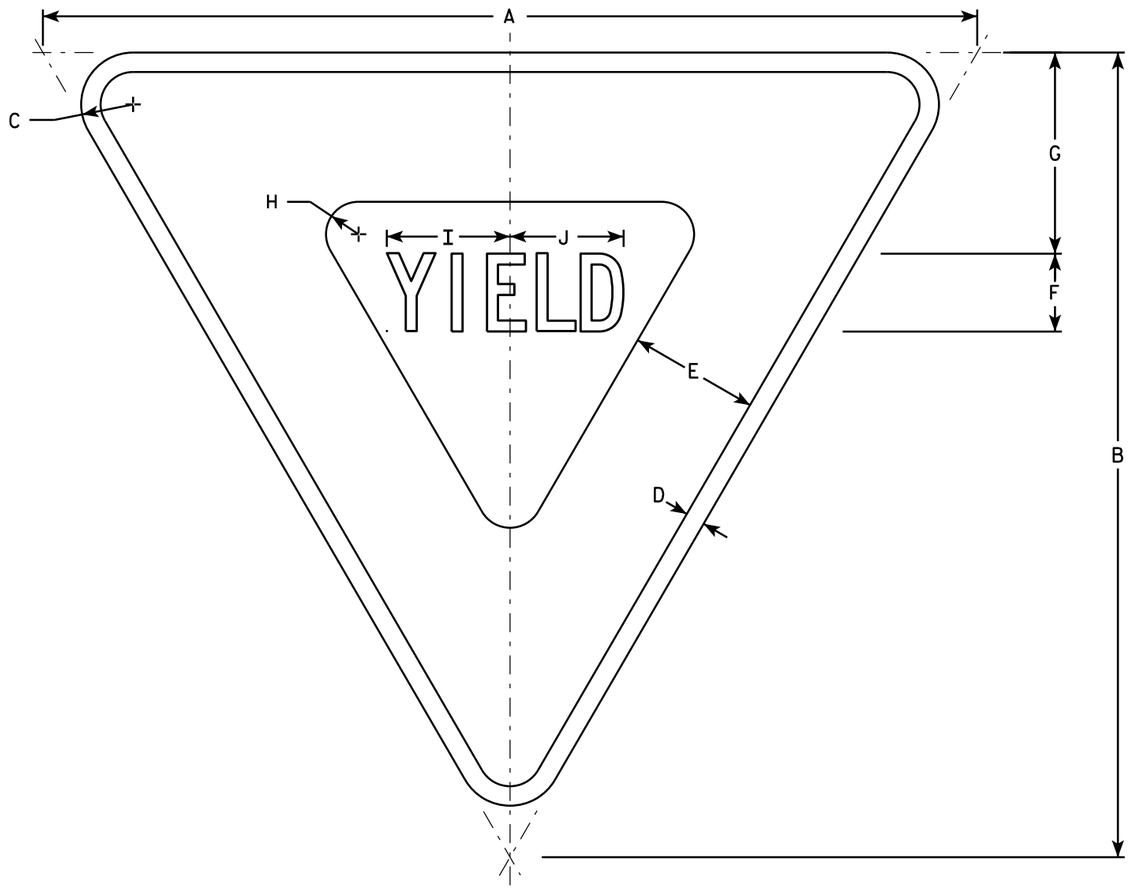
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 383 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R11F.DGN PLOT DATE : 02-DEC-2010 15:26 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 7.945391:1.000000

WISDOT/CADDS SHEET 42

7

7



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 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

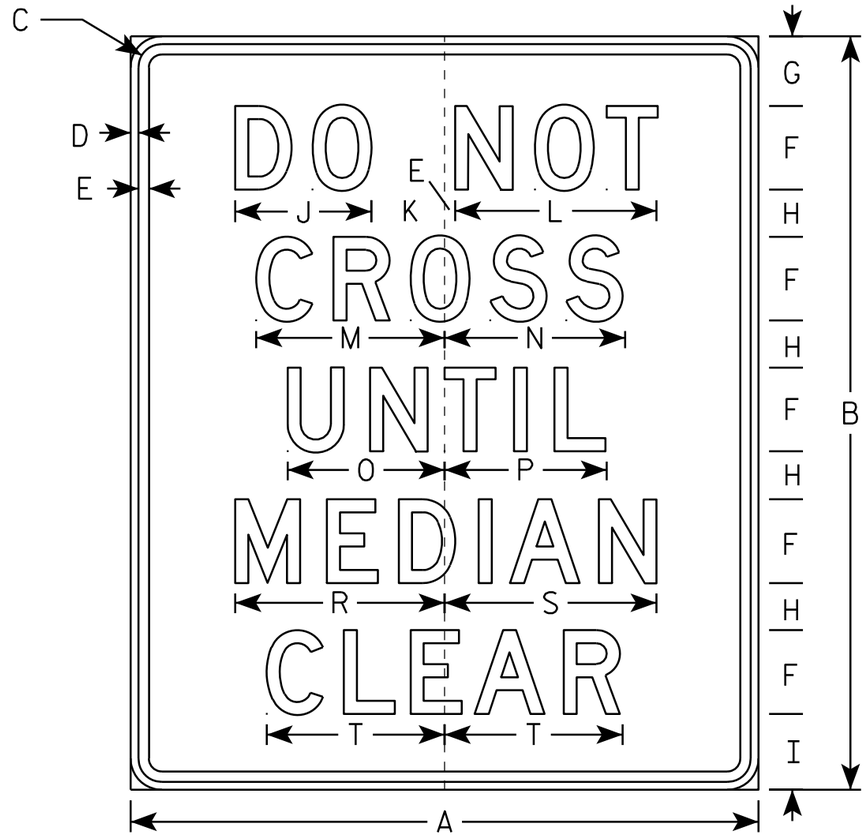
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



R1-55

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 - 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.

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	30	36	1 1/8	3/8	1/2	4	3 3/8	2 1/4	3 5/8	6 1/2	3 1/2	9 5/8	9	8 5/8	7 1/2	7 3/4		10	10 1/8	8 1/2							7.5
2M	30	36	1 1/8	3/8	1/2	4	3 3/8	2 1/4	3 5/8	6 1/2	3 1/2	9 5/8	9	8 5/8	7 1/2	7 3/4		10	10 1/8	8 1/2							7.5
3																											
4																											
5																											

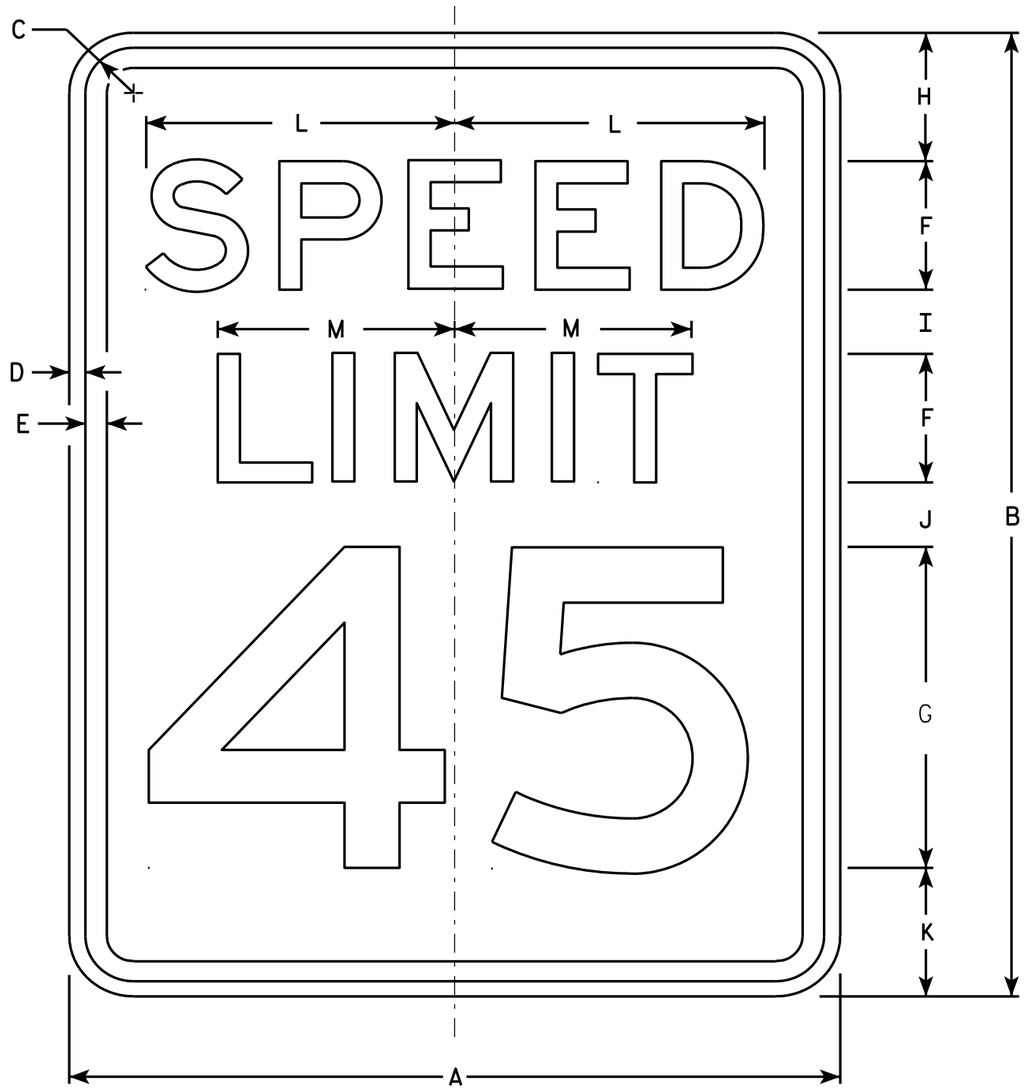
STANDARD SIGN
R1-55

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-55.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 385	E



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

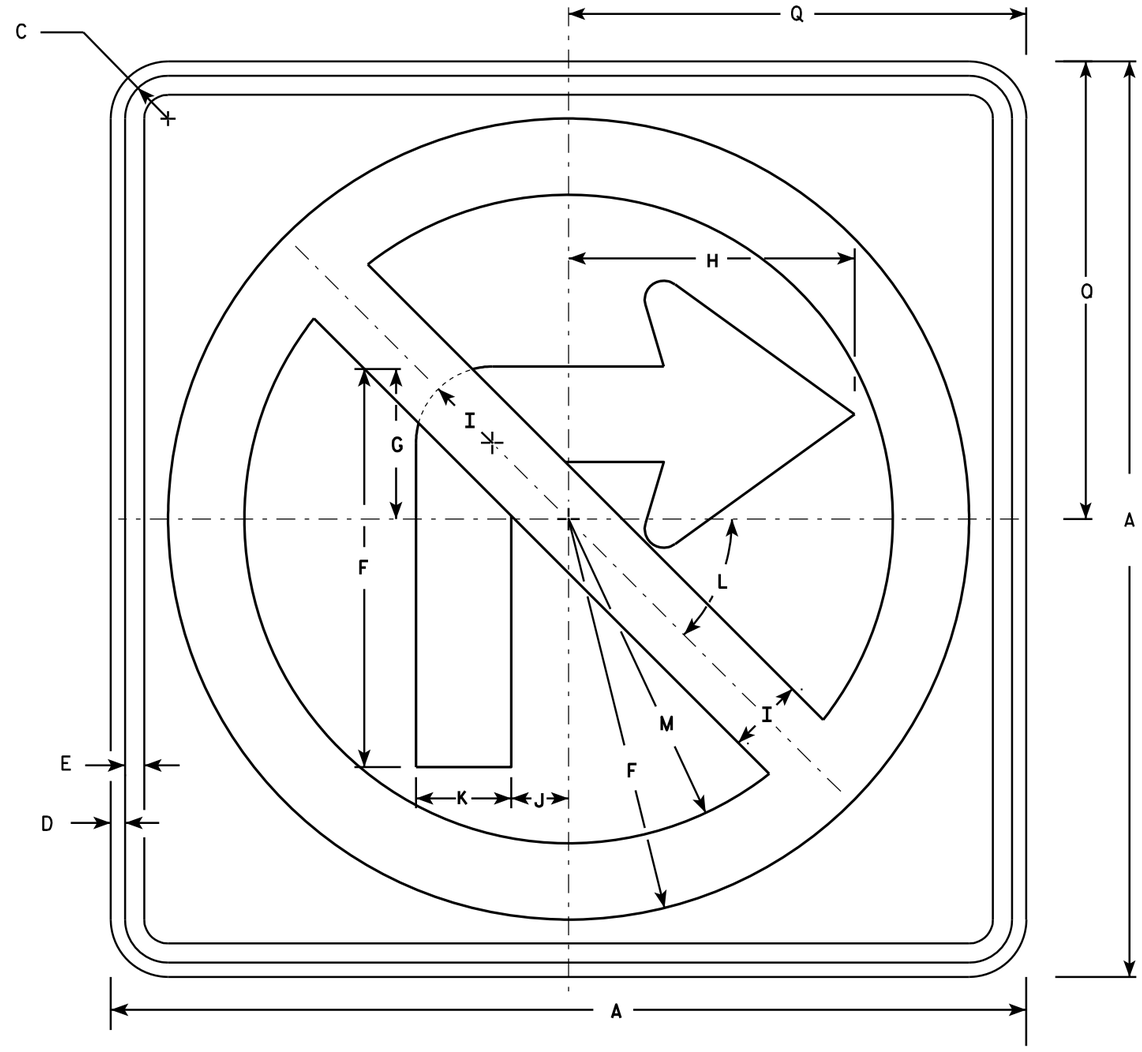
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

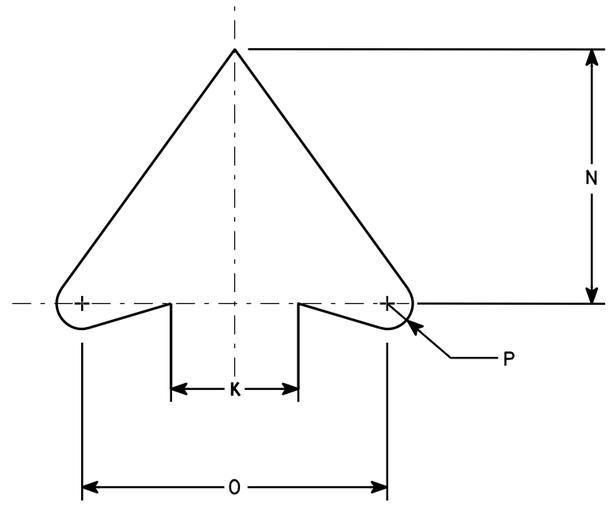
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 386	E



R3-1

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 - 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. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



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	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

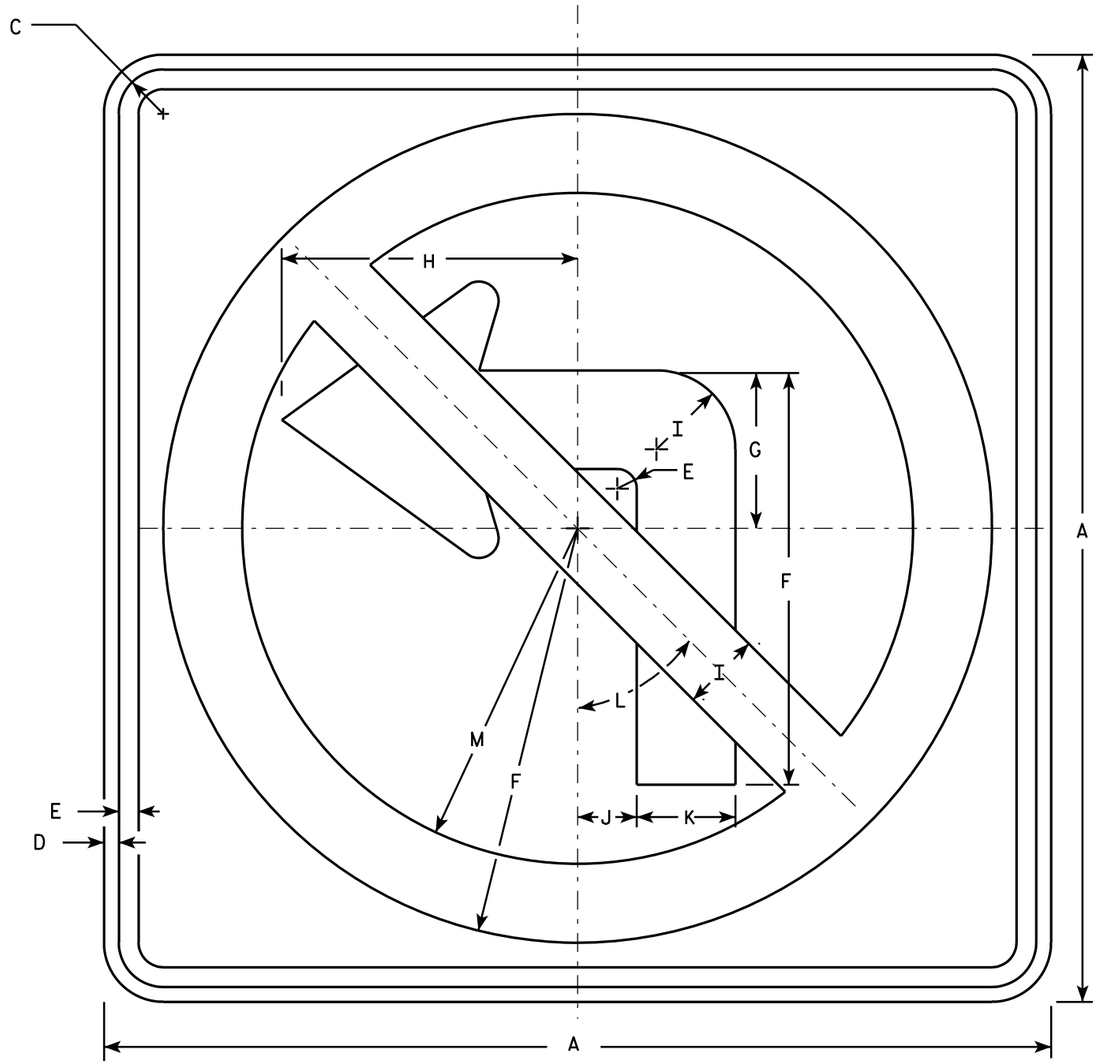
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

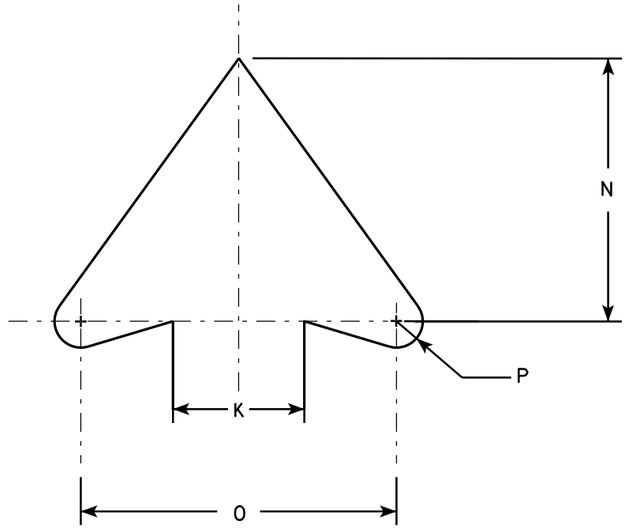
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 387	E



R3-2

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 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. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



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	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

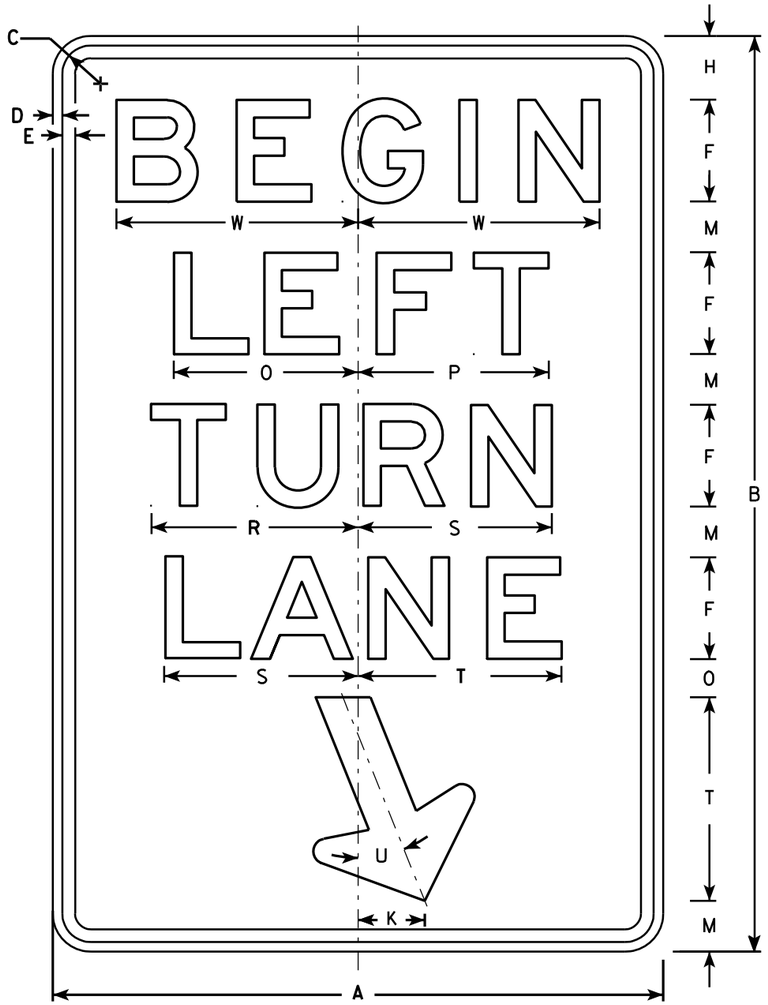
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

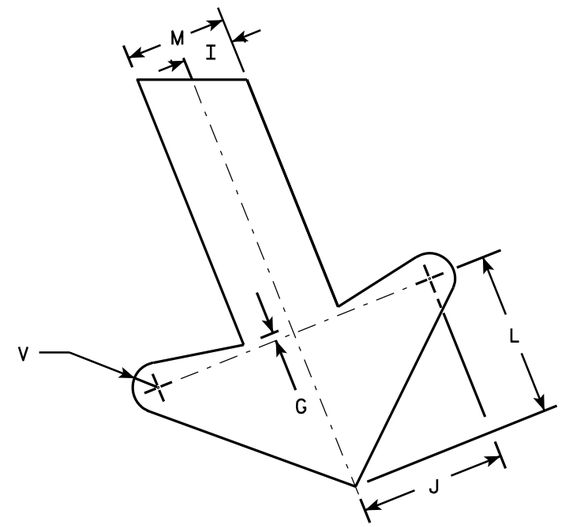
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 388	E



R3-20L

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.



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	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

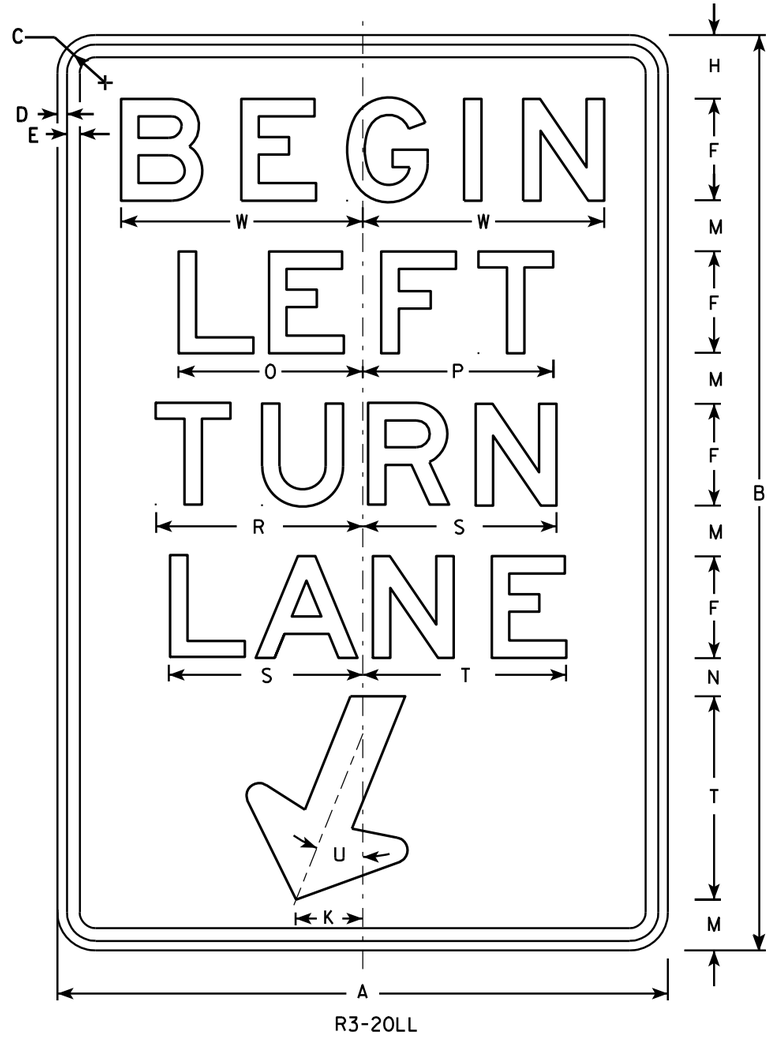
STANDARD SIGN
R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20L.7

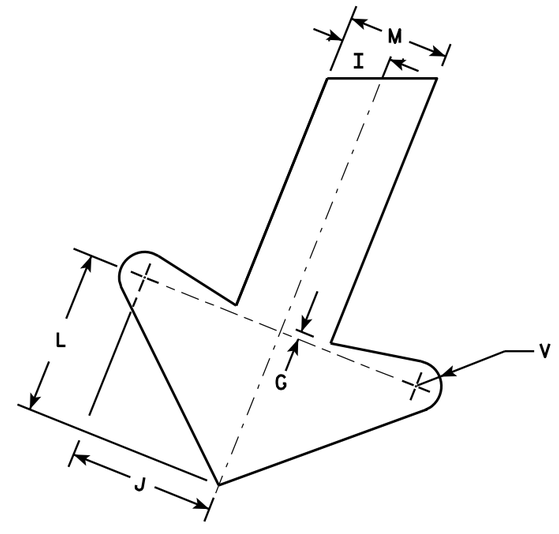
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 389 | E



R3-20LL

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.



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	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

STANDARD SIGN
R3-20LL

WISCONSIN DEPT OF TRANSPORTATION

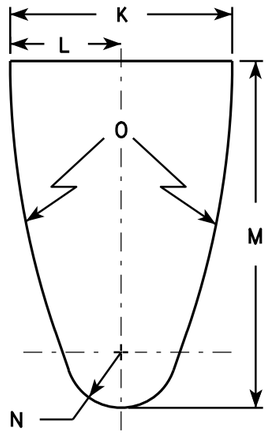
APPROVED Matthew R Rauch
for State Traffic Engineer

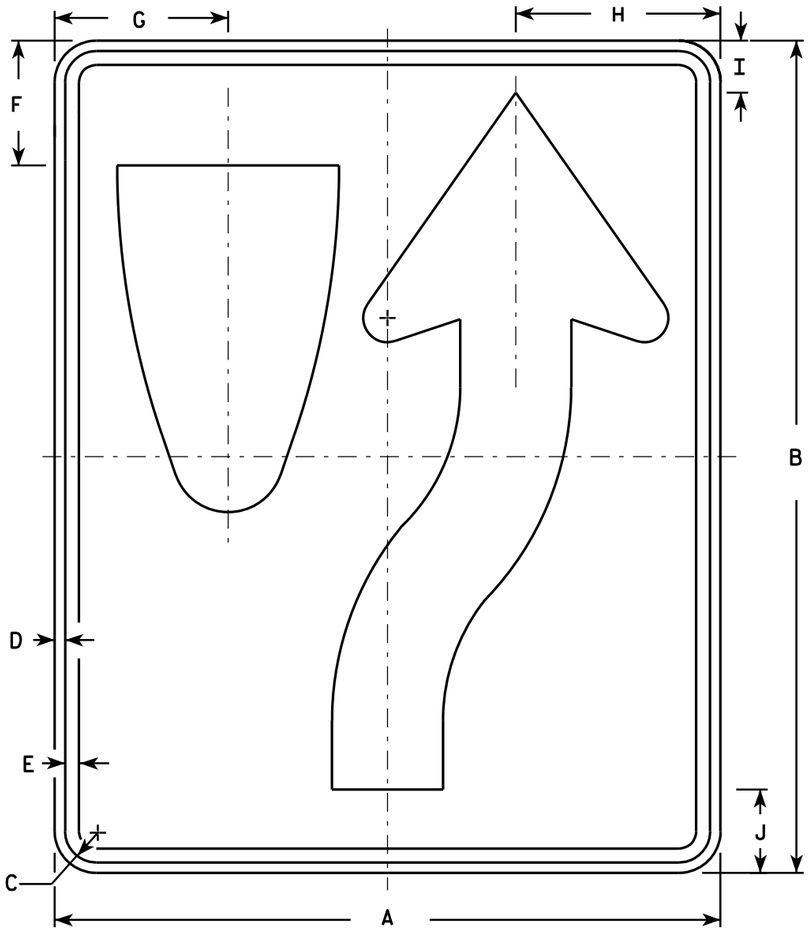
DATE 10/18/10 PLATE NO. R3-20LL.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 390 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R320LL.DGN PLOT DATE : 15-OCT-2010 14:38 PLOT BY : dotsja PLOT NAME : PLOT SCALE : 5.959043:1.000000
WISDOT/CADDS SHEET 42

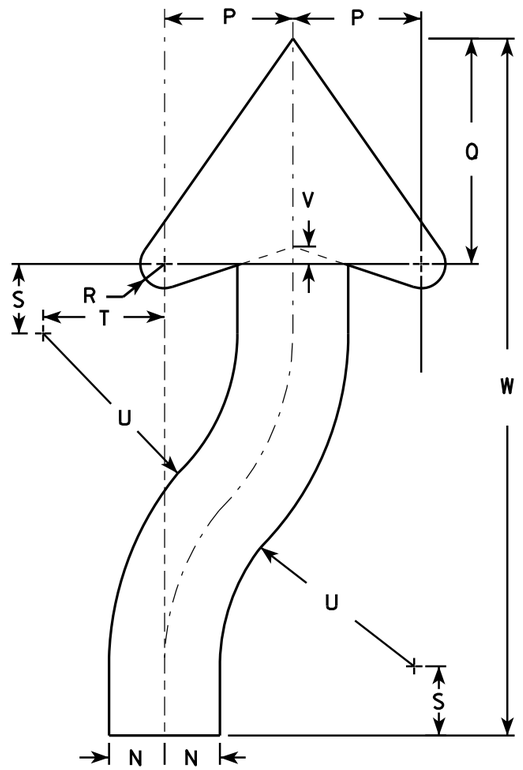




R4-7

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

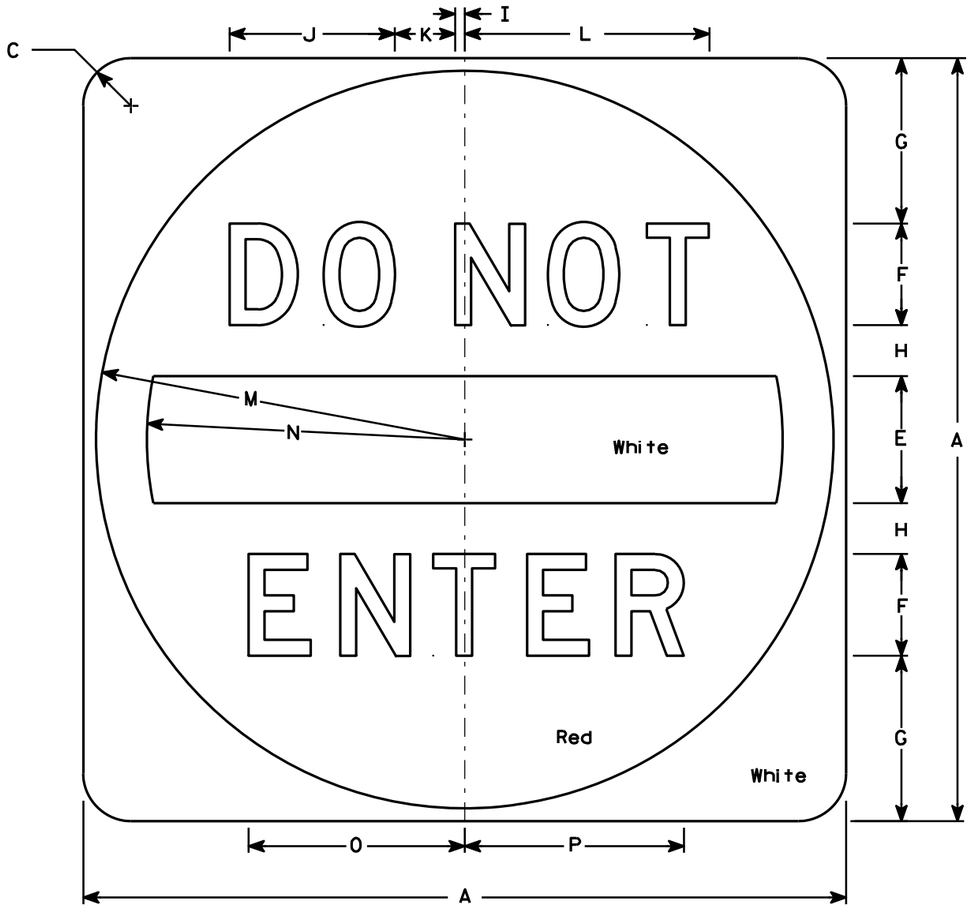
STANDARD SIGN
R4-7 & R4-8

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: 391	E



R5-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors 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																											
2S	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.26
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0

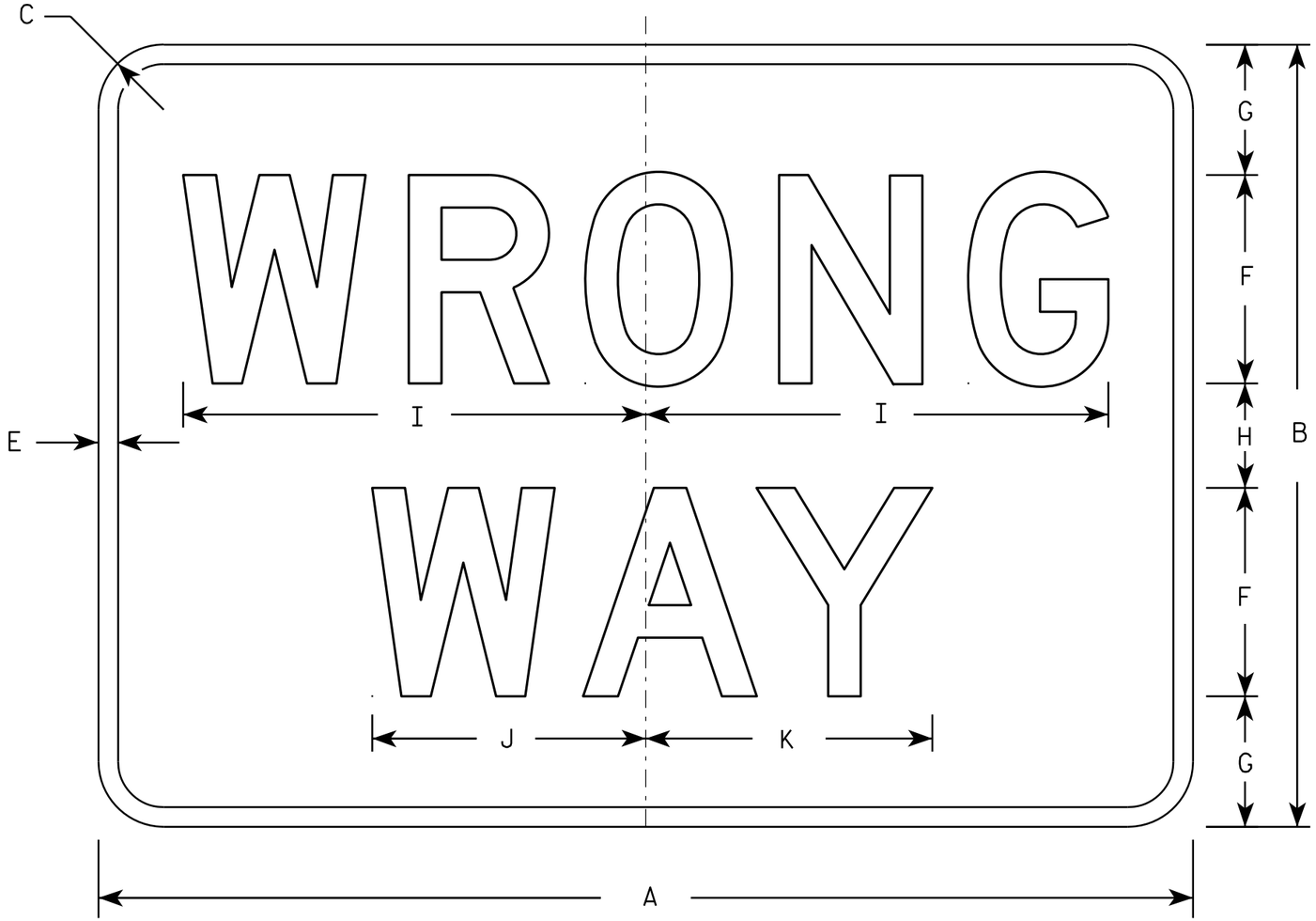
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 392 | E



R5-1A

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 - 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.

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	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

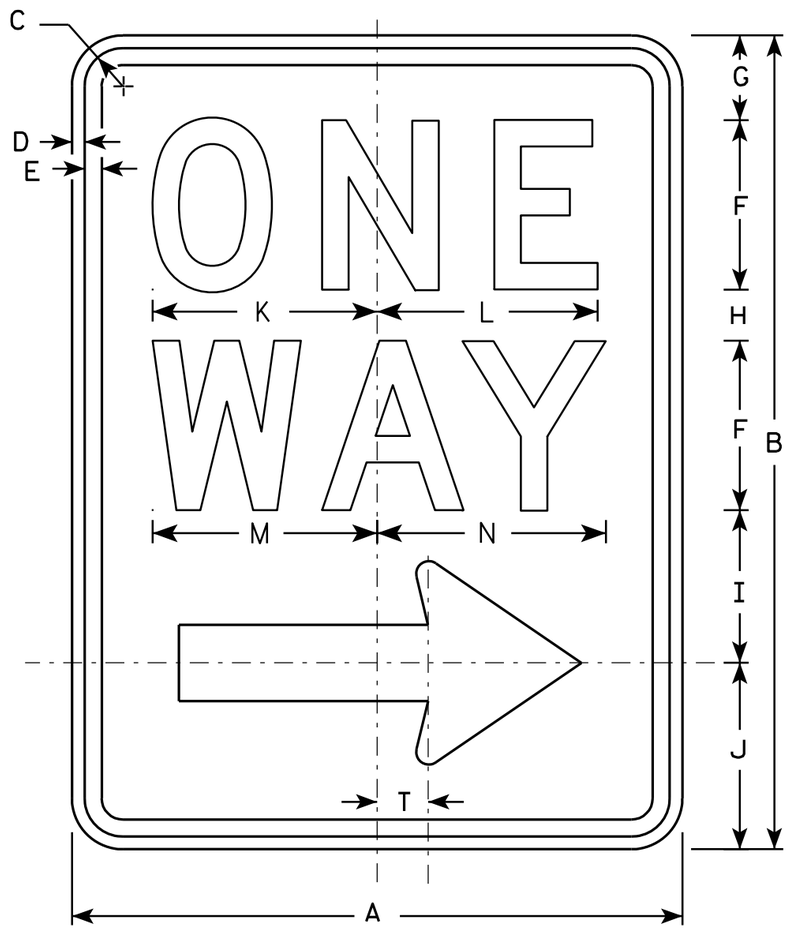
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

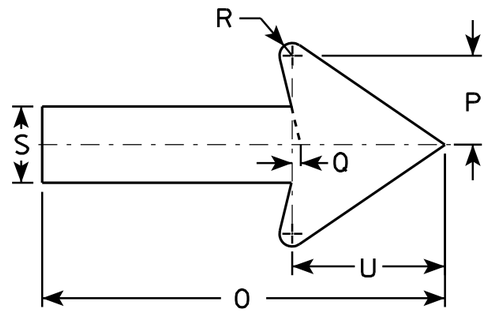
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 393 | E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
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.
5. R6-2L same as R6-2R except arrow points to the left.



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
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

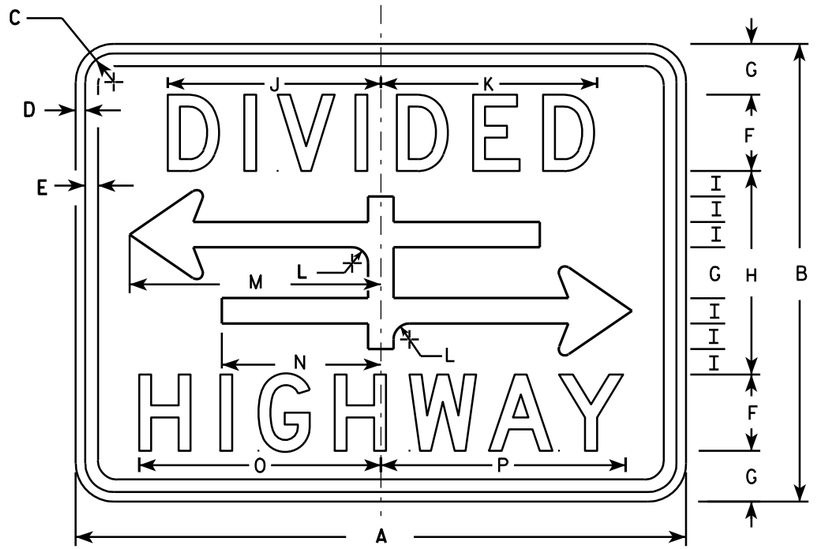
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

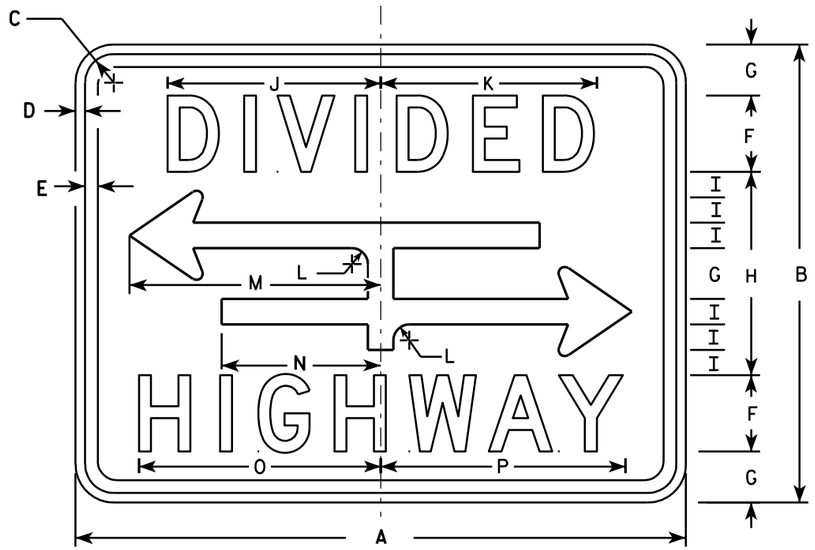
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 394	E



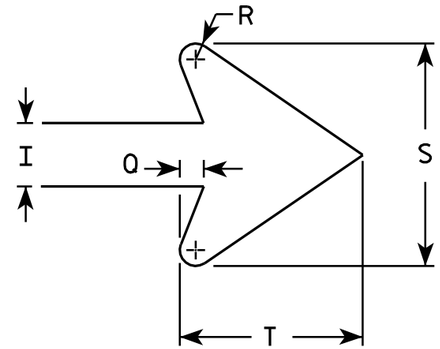
R6-3

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 - 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.



R6-3A



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	18	1 1/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 7/8	6 1/4	9 1/2	9 5/8	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
2M	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
3																											
4																											
5																											

STANDARD SIGN
R6-3 & R6-3A

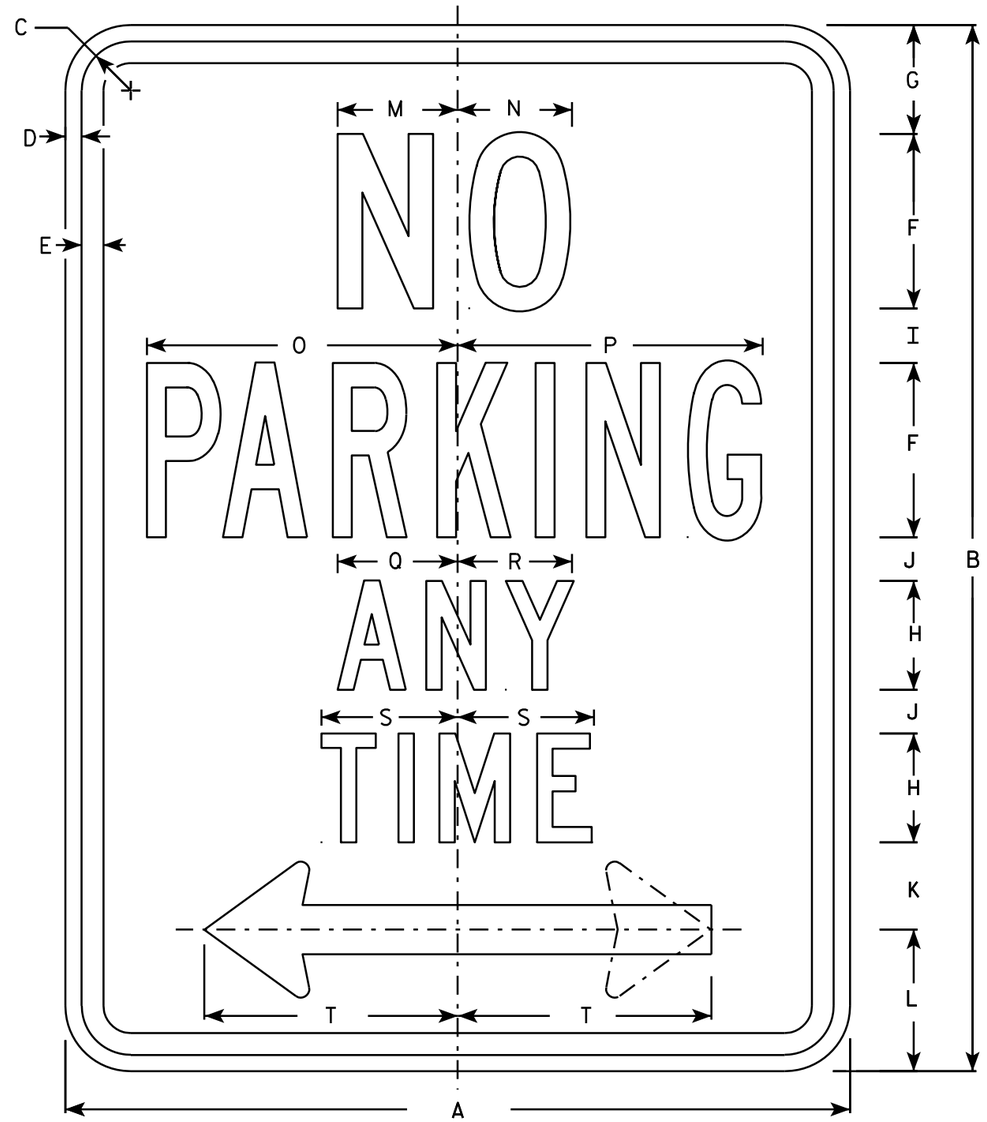
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

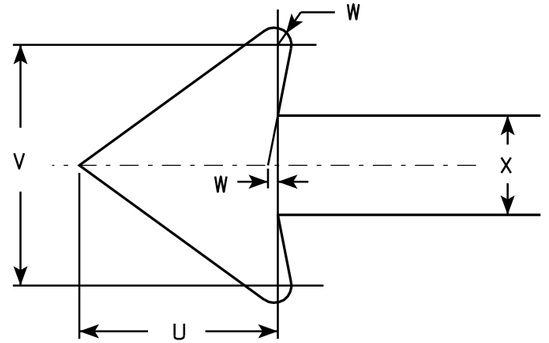
SHEET NO: 395 E



R7-1

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 - Red
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. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



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	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

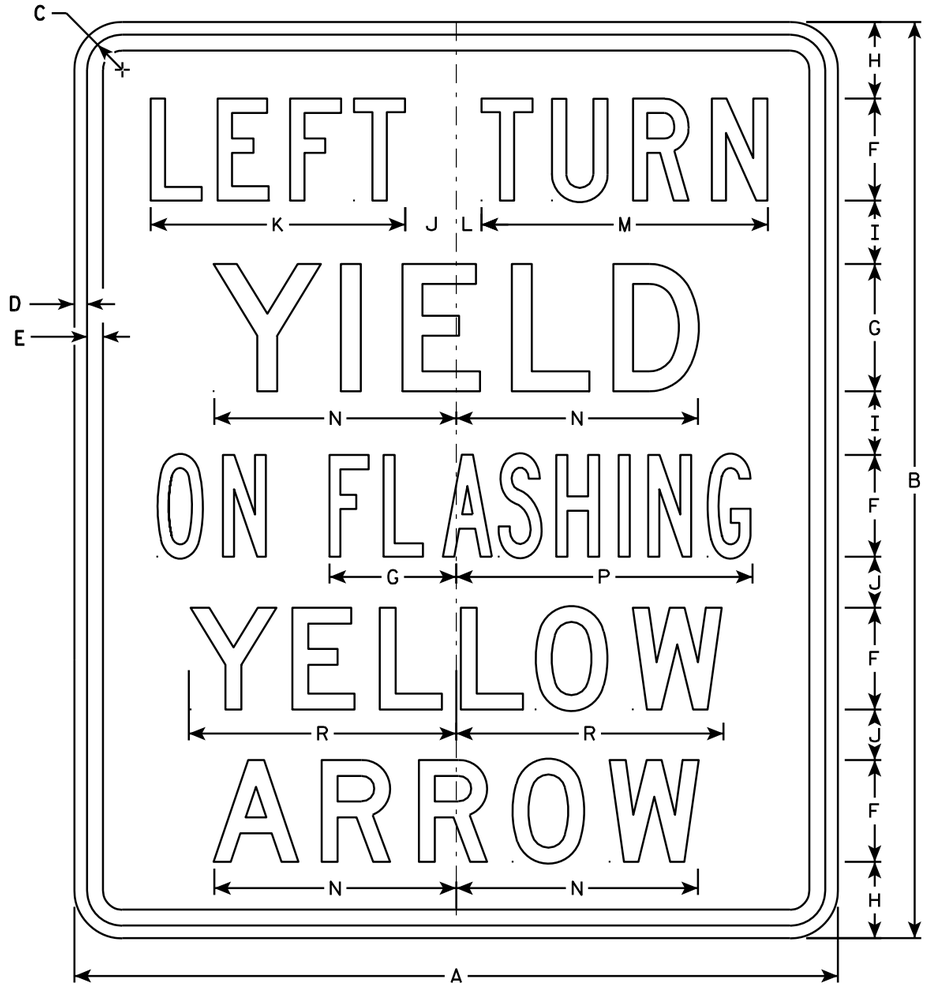
STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 396	E

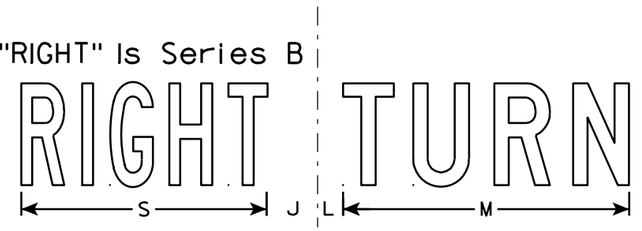


R10-50L

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 - 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. Line 1 is Series C.
   Lines 2, 4 and 5 are Series D.
   Line 3 is Series B.

"RIGHT" Is Series B



R10-50R

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	30	36	1 3/8	1/2	5/8	4	5	3	2 1/2	2	10	1	11 1/4	9 1/2	4 1/4	11 5/8		10 1/2	9 5/8								7.5
2M	30	36	1 3/8	1/2	5/8	4	5	3	2 1/2	2	10	1	11 1/4	9 1/2	4 1/4	11 5/8		10 1/2	9 5/8								7.5
3																											
4																											
5																											

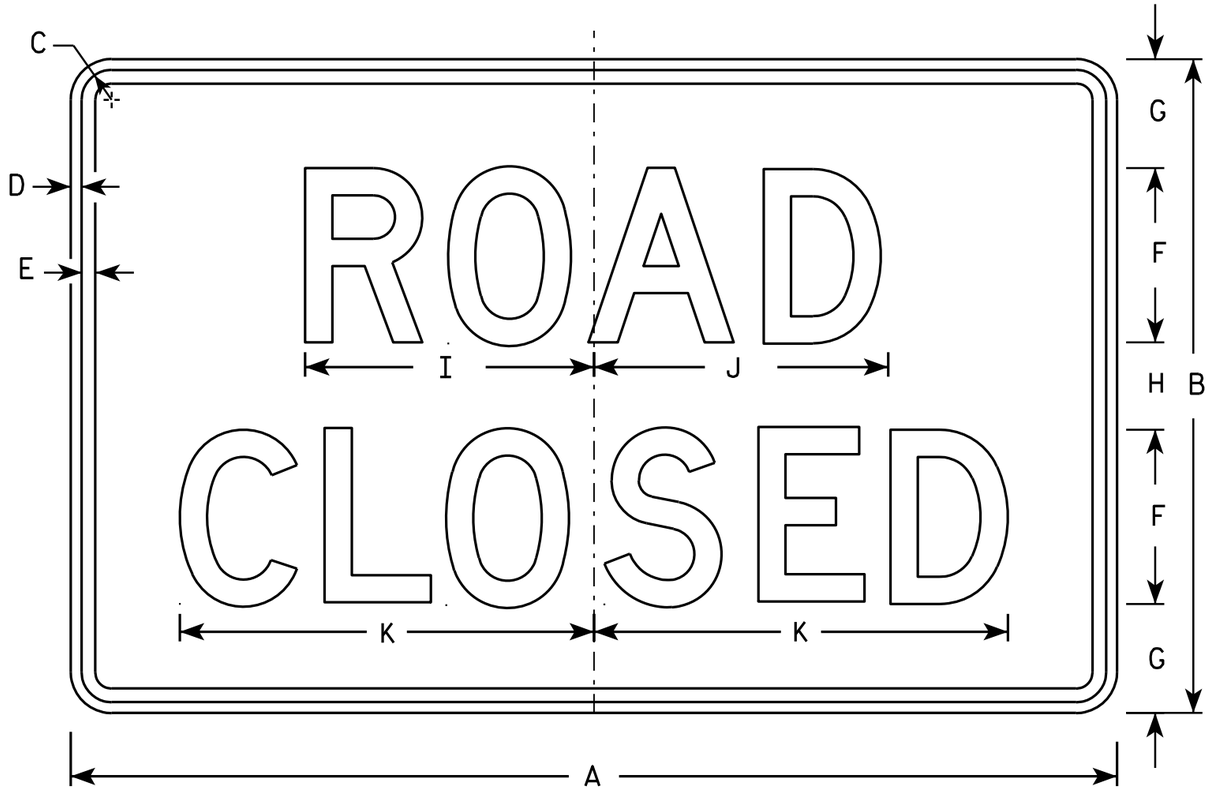
STANDARD SIGN
R10-50

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/11/13 PLATE NO. R10-50.2

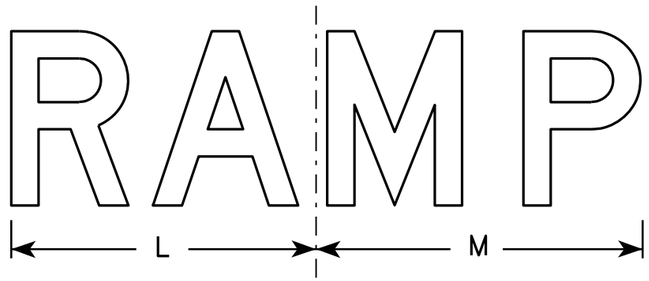
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 397	E



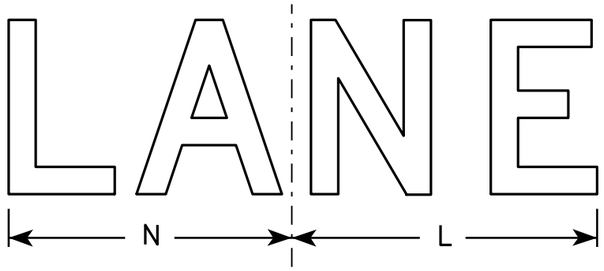
R11-2

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 - Black
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.
5. Modify the message as required.



R11-2R



R11-2L

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	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

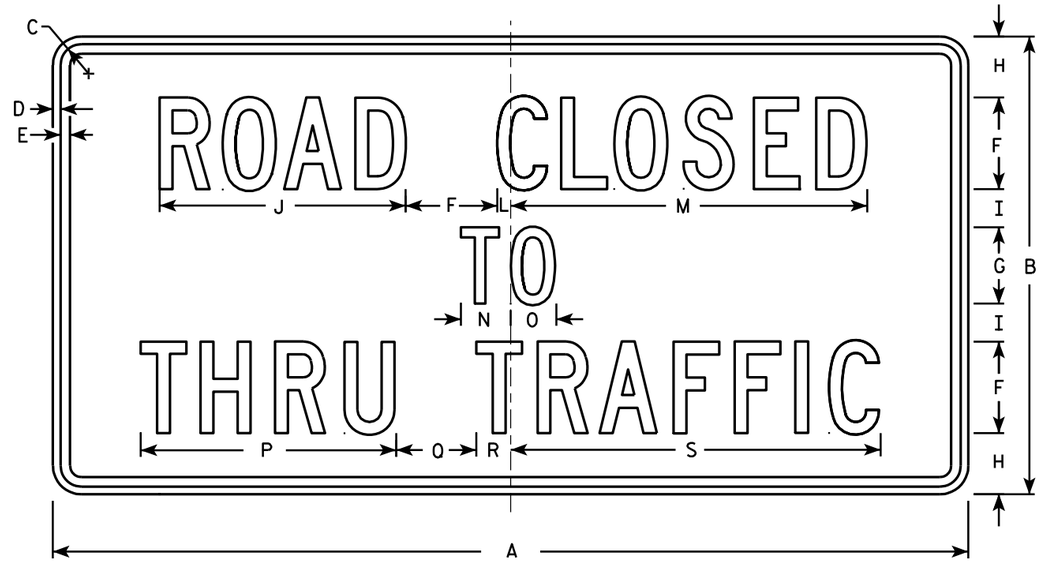
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 398 | E



R11-4

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 - 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.

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	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

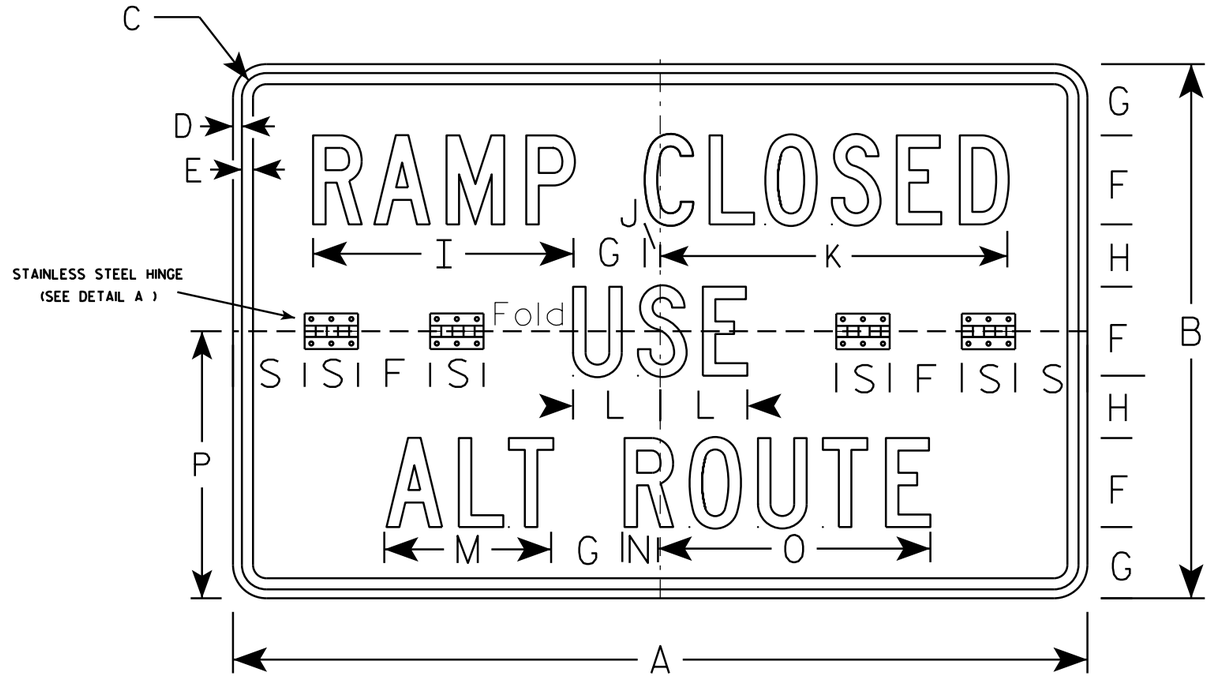
STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

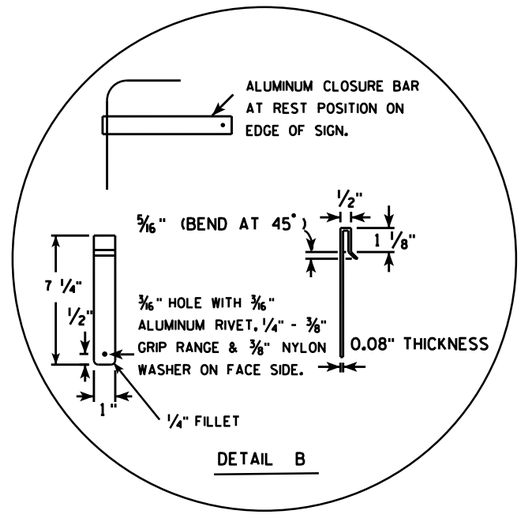
DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 399 | E



R11-54F

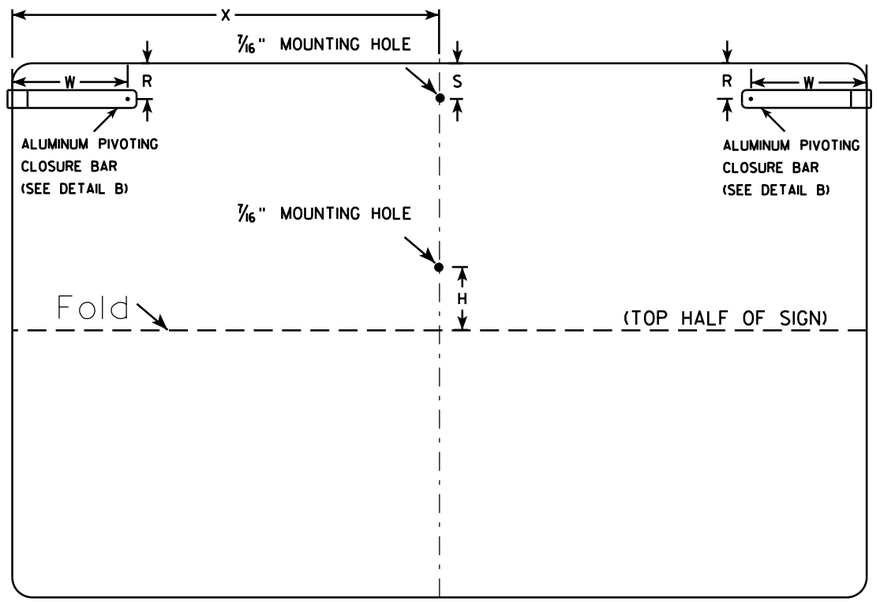
DETAIL A



DETAIL B

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - C
4. Sign Base Material shall be aluminum, corners and borders shall be rounded.
5. All hardware used on the folding sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.
6. Refer to plate A5-3A for sign blank layout.



(BACK VIEW)

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	48	30	1 3/8	1/2	5/8	5	4	3 1/2	14 5/8	7/8	19 1/2	4 7/8	9 3/8	2	15 1/4	15		2	3	2 5/8	1 1/4	11/16	6 1/2	24			10.0
2M	48	30	1 3/8	1/2	5/8	5	4	3 1/2	14 5/8	7/8	19 1/2	4 7/8	9 3/8	2	15 1/4	15		2	3	2 5/8	1 1/4	11/16	6 1/2	24			10.0
3																											
4																											
5																											

STANDARD SIGN
R11-54F

WISCONSIN DEPT OF TRANSPORTATION

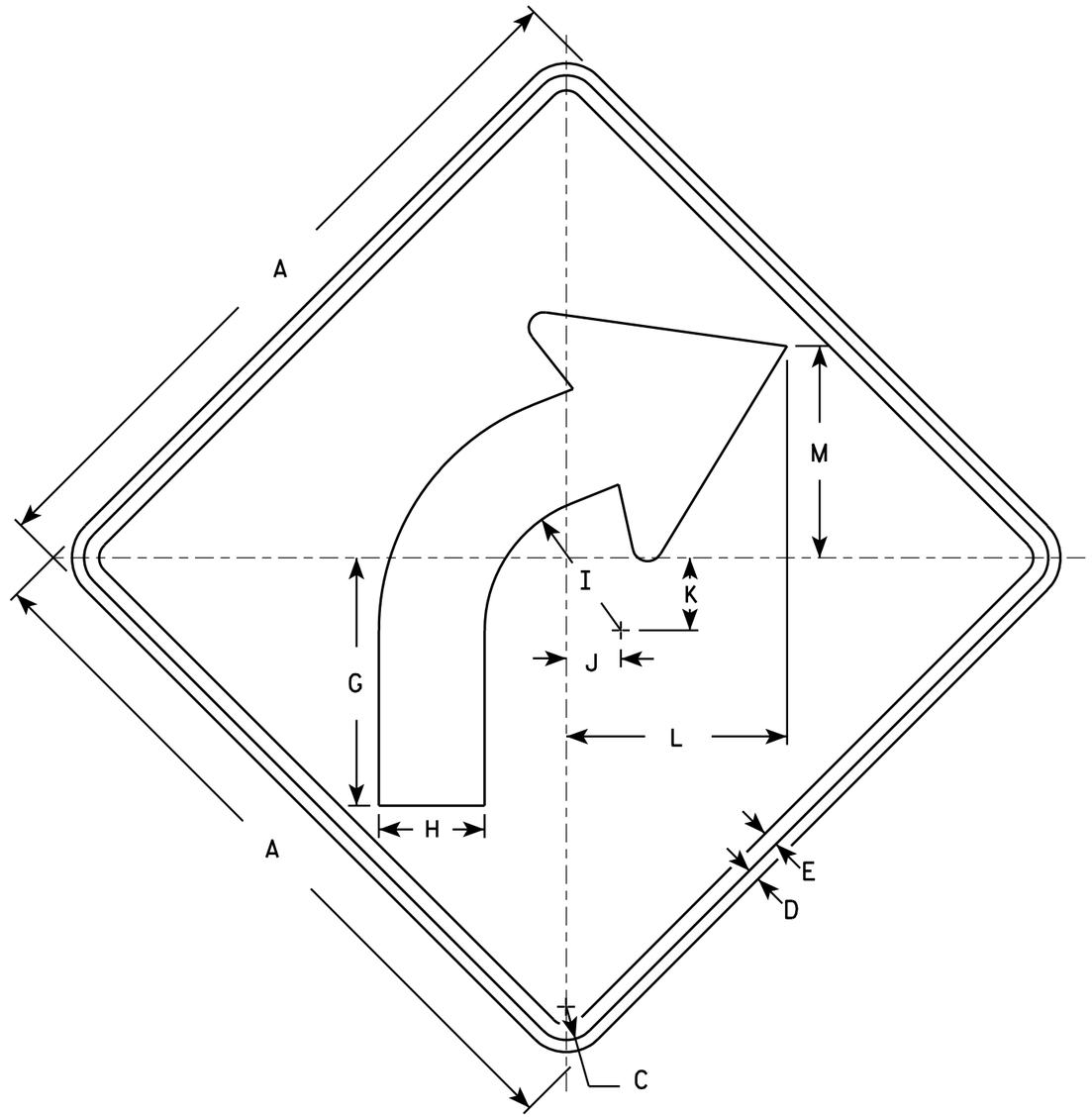
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/28/14 PLATE 400 R11-54F.3

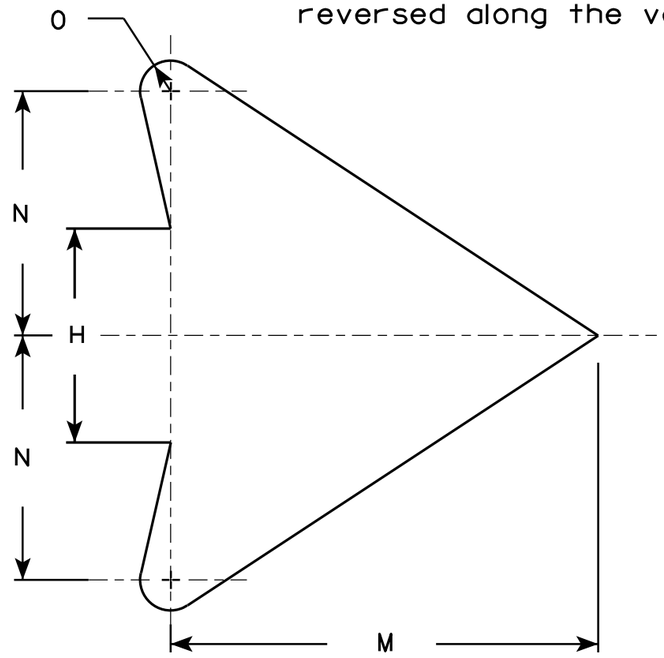
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

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. 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.



W1-2R



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

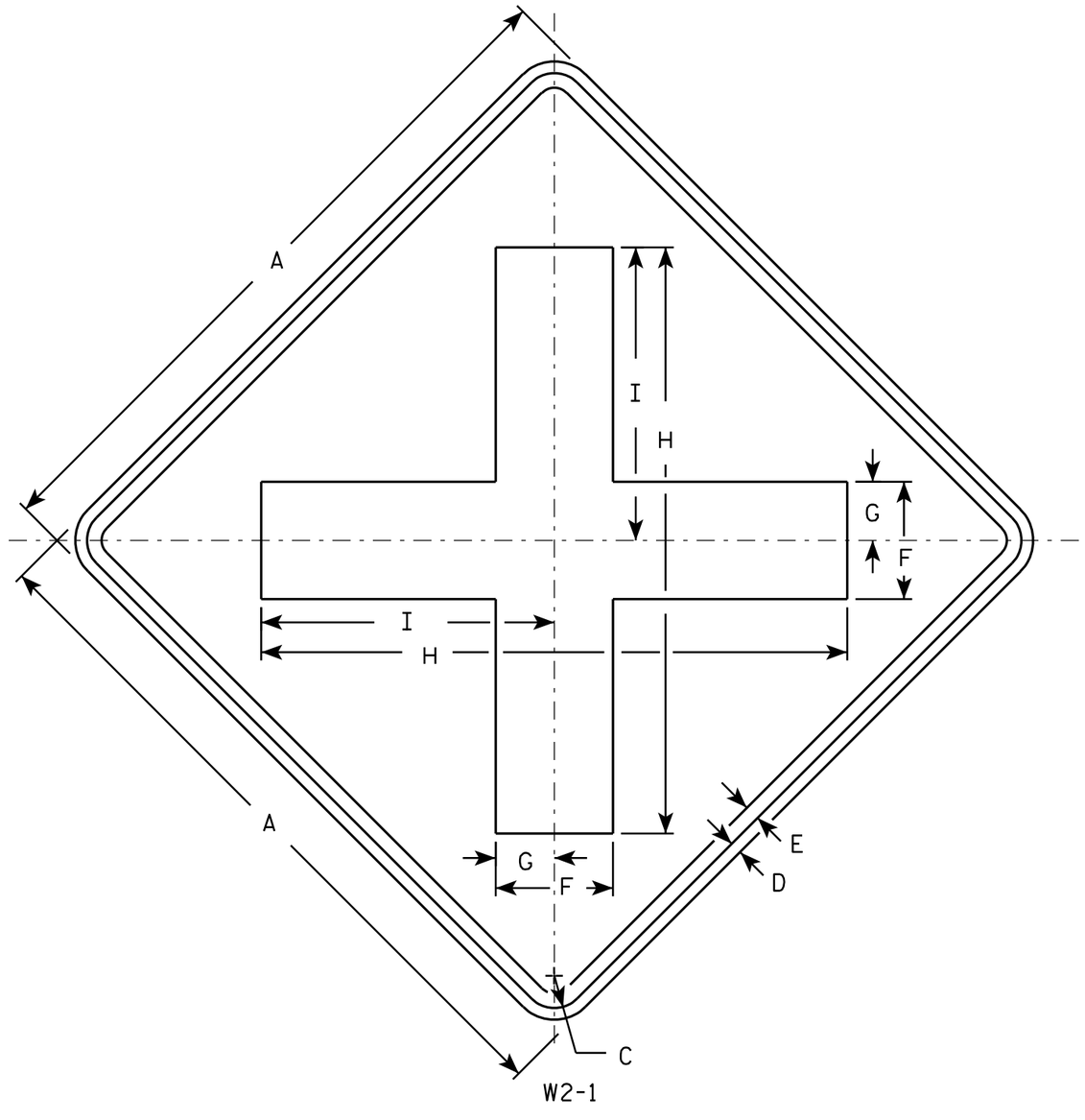
STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 401 | 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. 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	24		1 1/8	3/8	1/2	4	2	20	10																		4.0
2S	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3	30	15																		9.0
4	48		2 1/4	3/4	1	8	4	40	20																		16.0
5																											

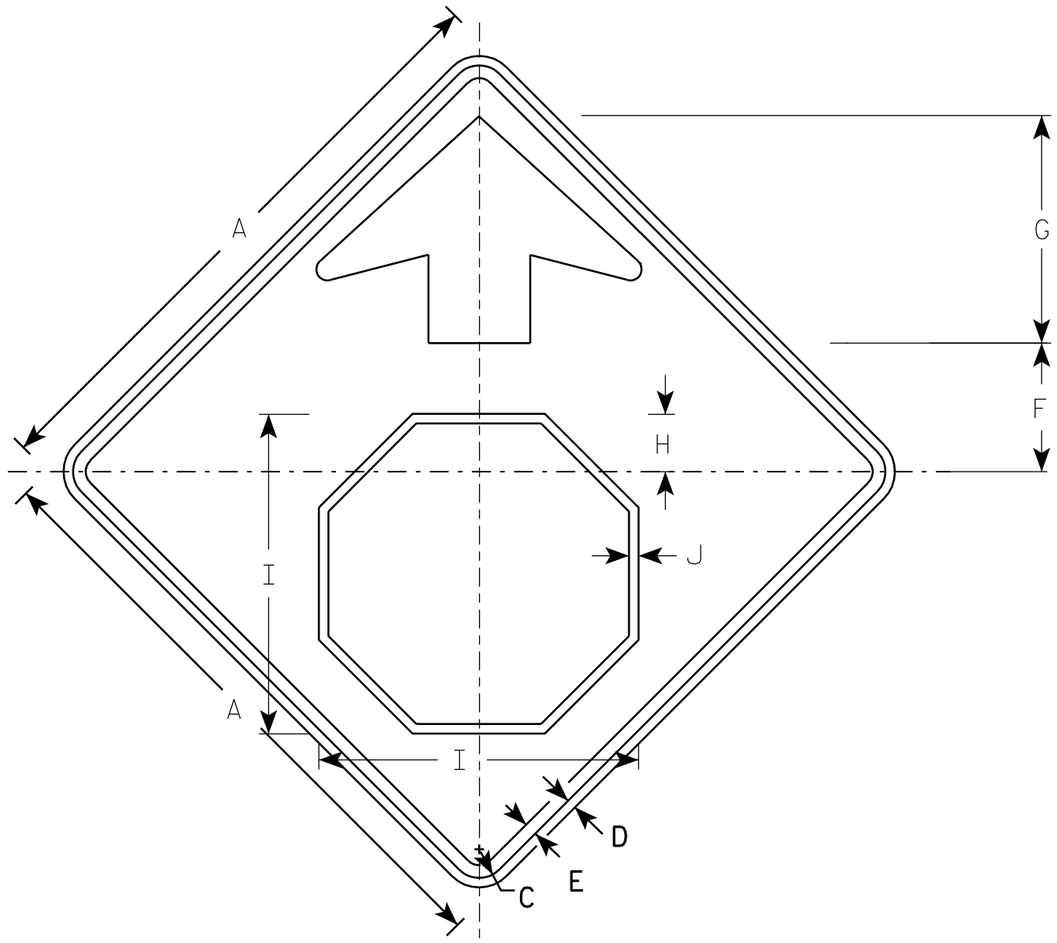
STANDARD SIGN
W2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W2-1.9

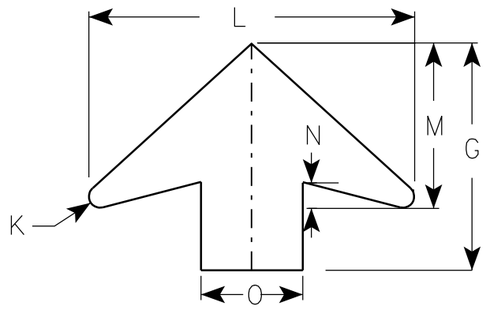
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 402	E



W3-1

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
   Stop 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	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

STANDARD SIGN
W3-1

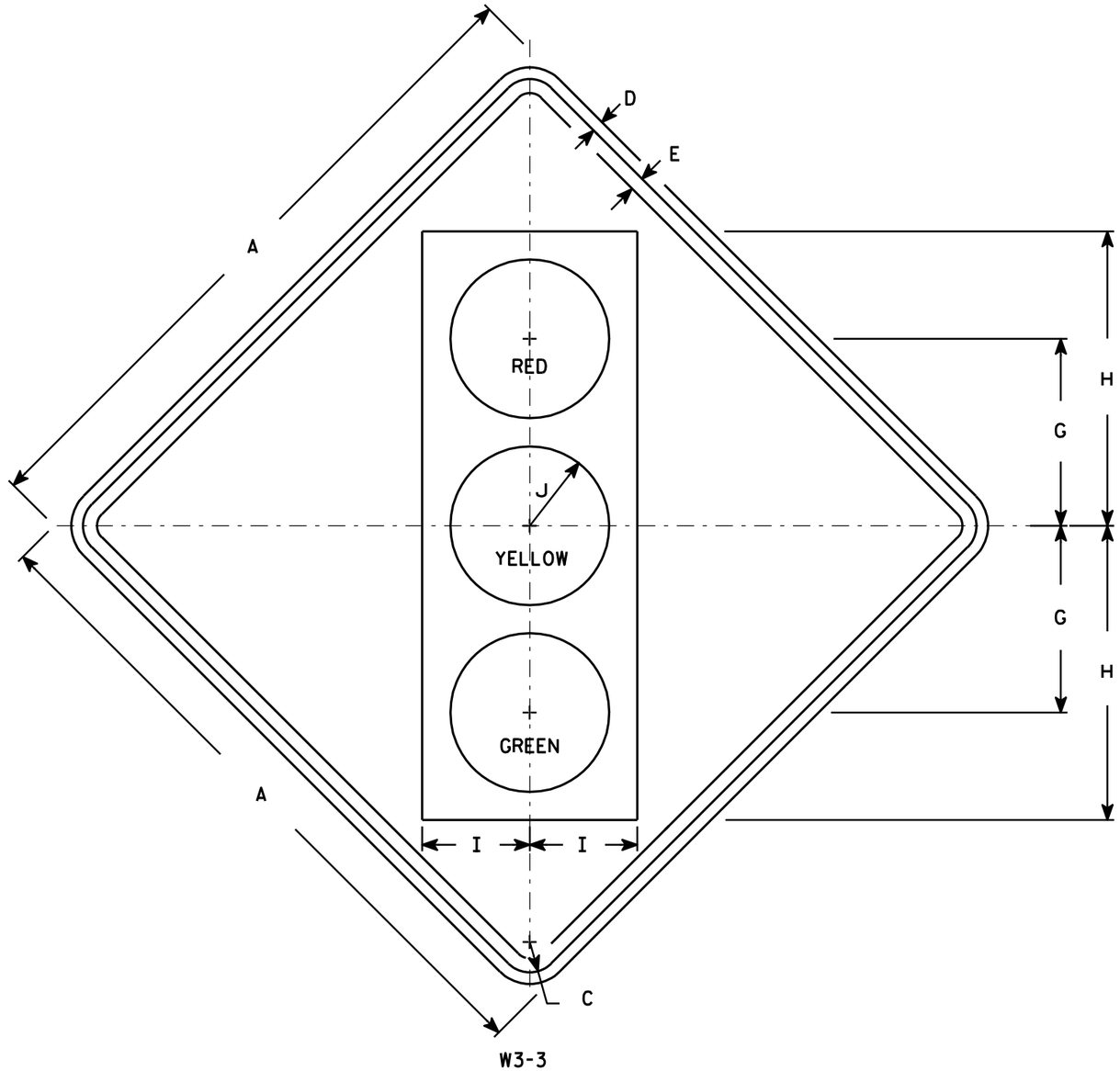
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

PROJECT NO:

SHEET NO: 403 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 - 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. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

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		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

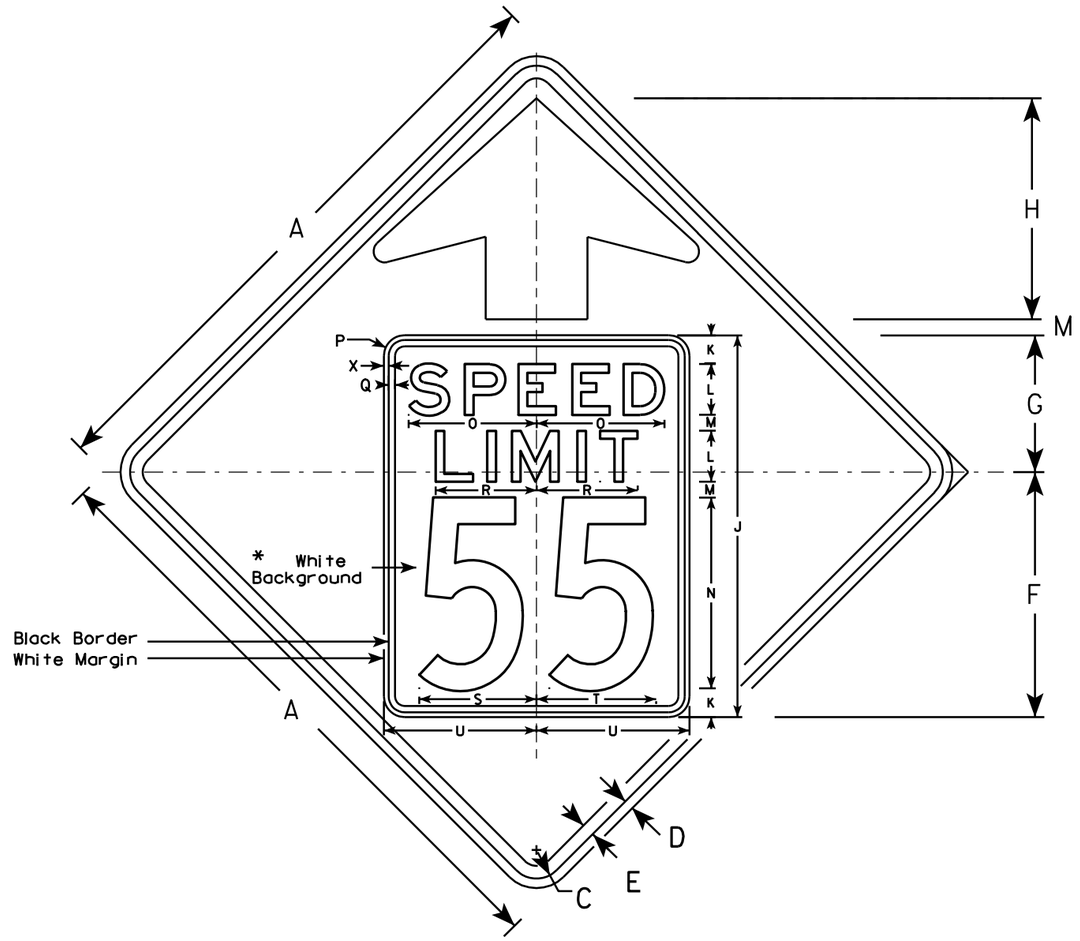
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 404 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W33.DGN PLOT DATE : 07-JUN-2010 13:07 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 7.448805:1.000000

WISDOT/CADDS SHEET 42

7

7

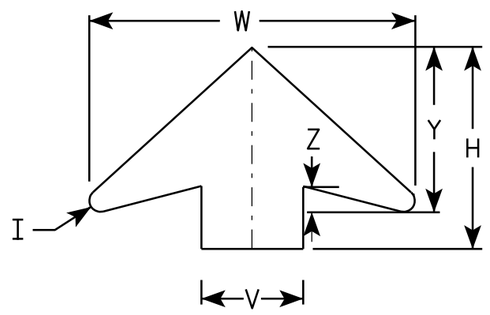


W3-5

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 - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White 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																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

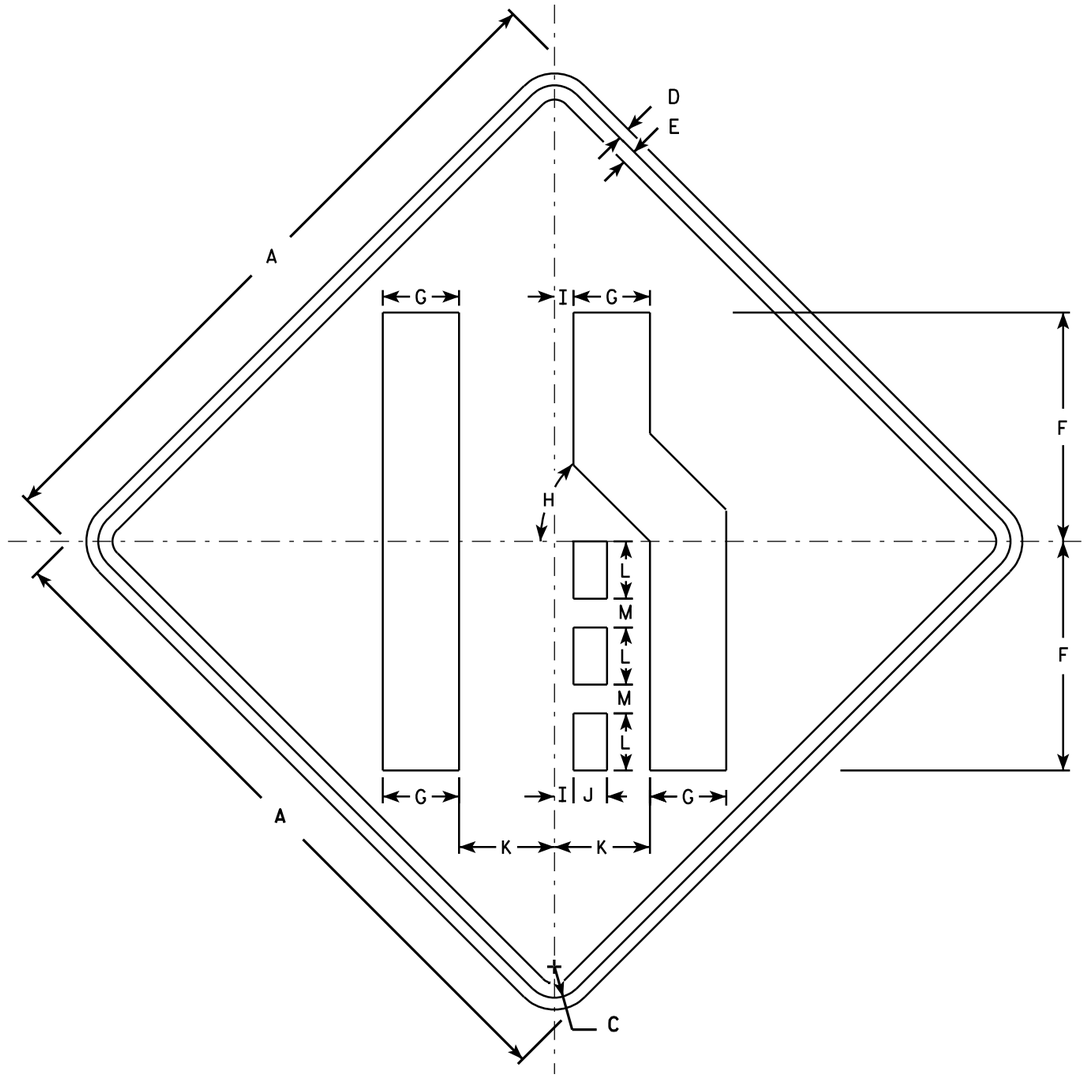
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 405 E



W4-2R

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. 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. W4-2L is the same as W4-2R except the symbol 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	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W4-2

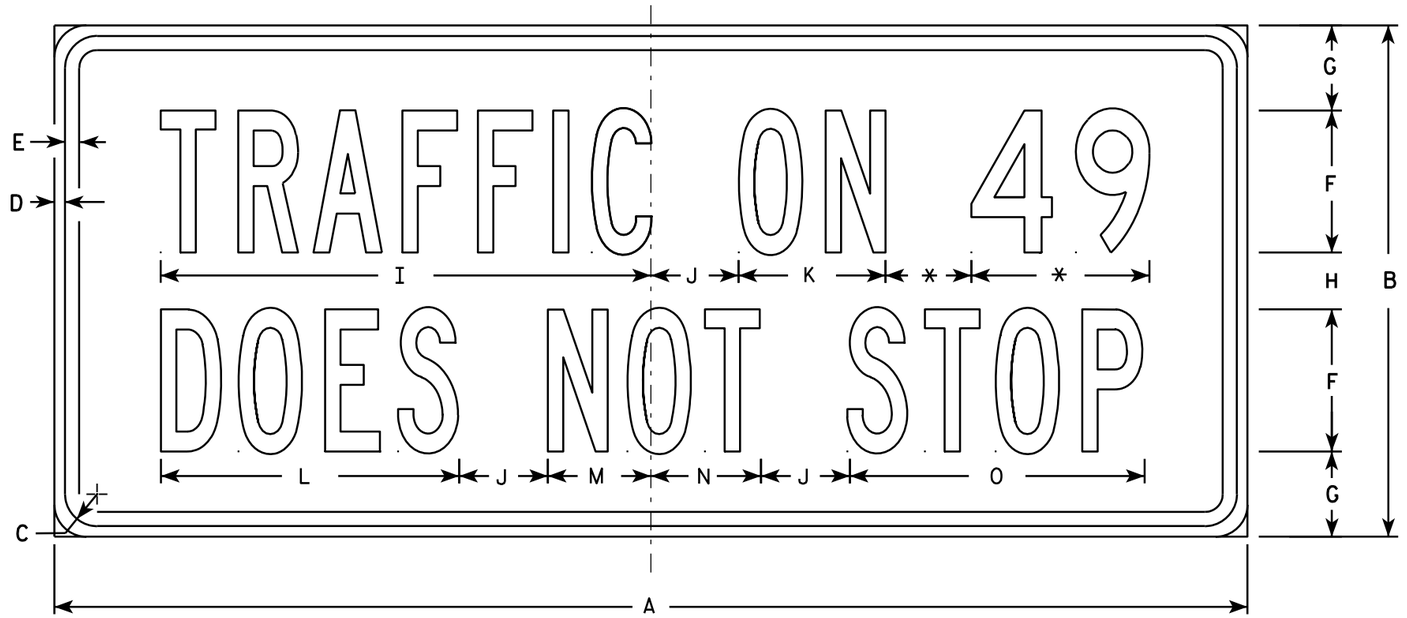
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO: 406 E



W4-4C

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 - B (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. Highway Number usually Series D. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

* VARIES

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	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	10 3/8	1 1/2	3 1/8	6 1/4	2 1/4	2 1/4	6 1/4												2.0
2M	24	12	1 1/8	3/8	3/8	3	2 1/4	1 1/2	10 3/8	1 1/2	3 1/8	6 1/4	2 1/4	2 1/4	6 1/4												2.0
3	36	15	1 1/8	3/8	1/2	4	2 5/8	1 3/4	13 7/8	2 3/8	4 1/4	8 3/8	3 1/8	3 1/8	8 3/8												3.75
4	42	18	1 1/8	3/8	1/2	5	3	2	17 1/4	3 1/8	5 1/8	10 1/2	3 7/8	3 7/8	10 3/8												5.25
5																											

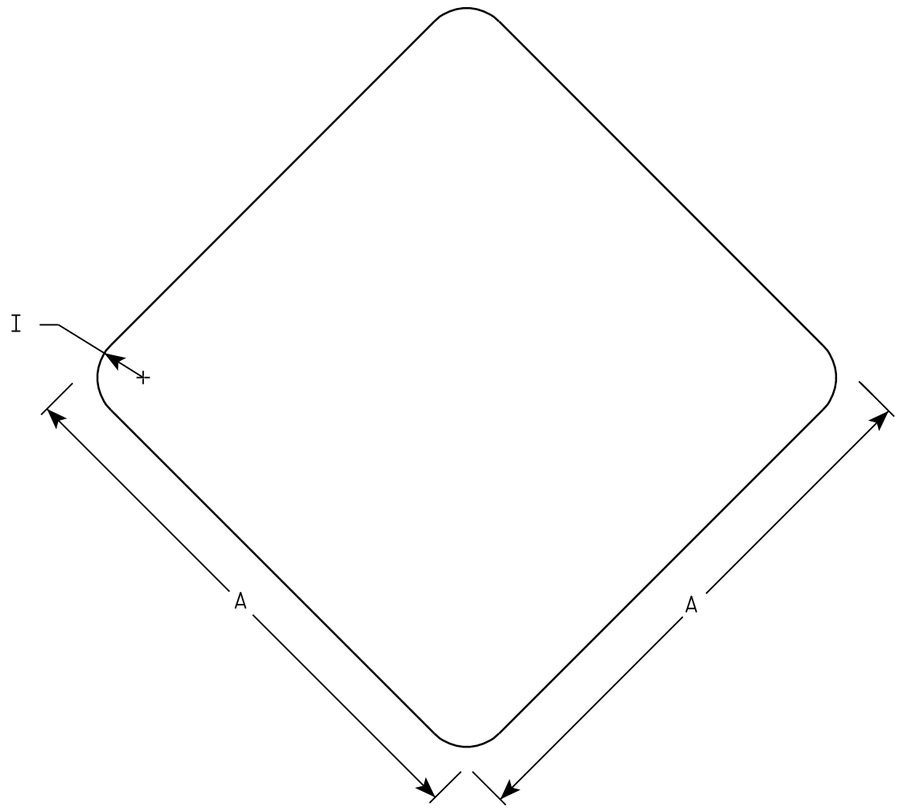
STANDARD SIGN
W4-4C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W4-4.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 407	E



W5-54

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
3. Corners may be square or rounded when base material is plywood. When base material is metal the corners 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	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

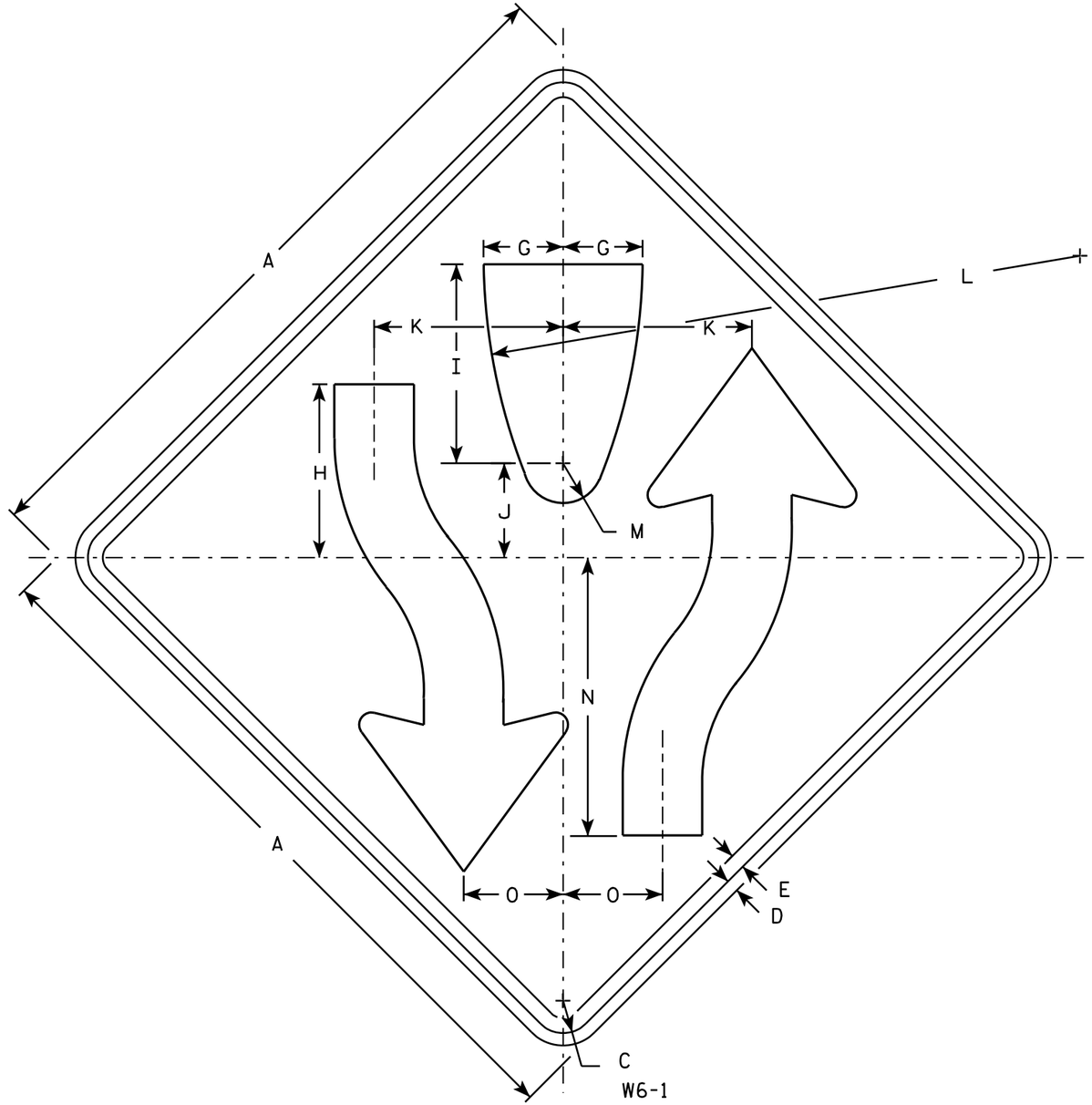
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

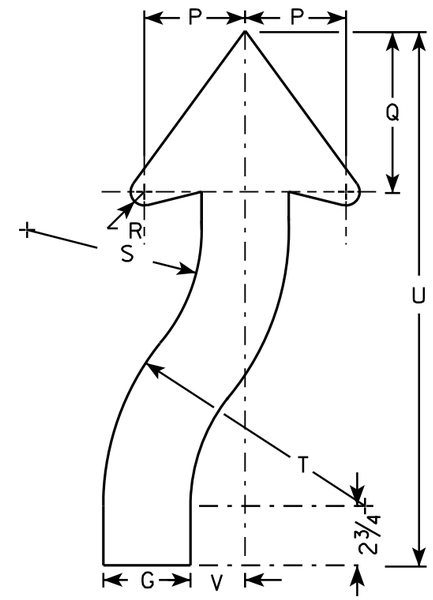
DATE 11/3/10 PLATE NO. W5-54.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 408 | 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. 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. W6-2 same as W6-1 but is rotated 180° when mounted.



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		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W6-1 & W6-2

WISCONSIN DEPT OF TRANSPORTATION

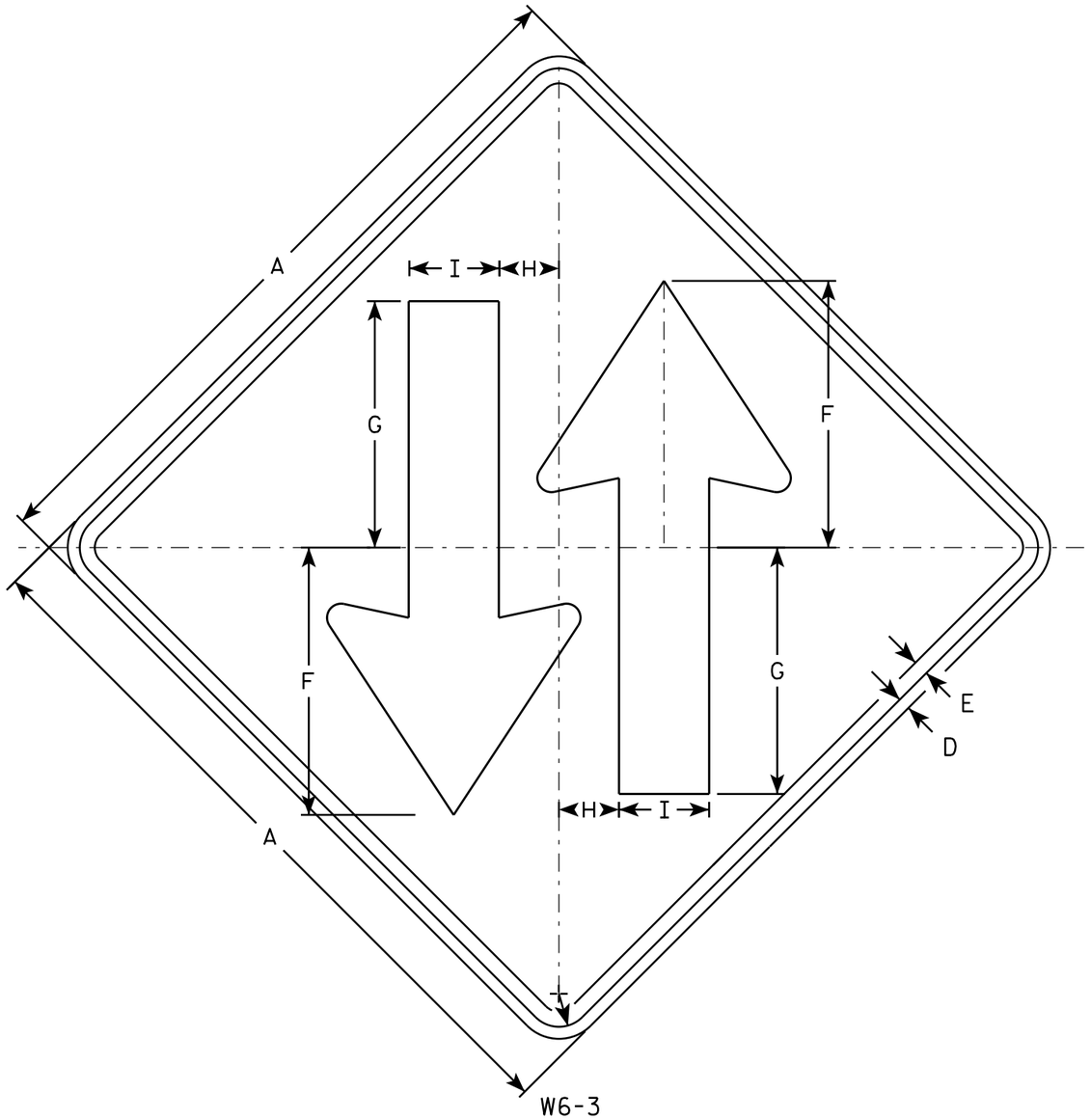
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 409	E

7

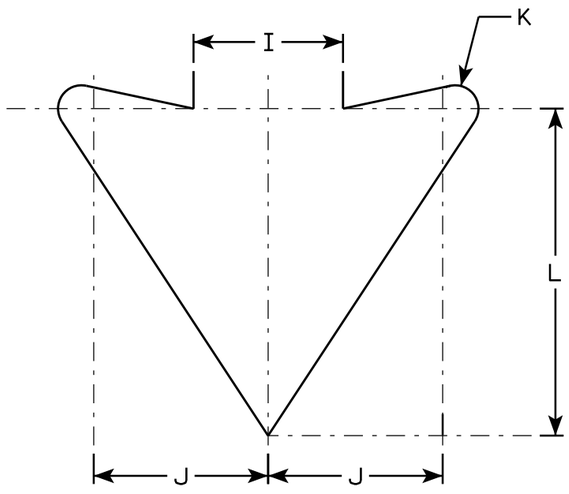
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W61.DGN PLOT DATE : 12-MAR-2013 14:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946657:1.000000
WISDOT/CADDS SHEET 42



W6-3

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. 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	30		1 3/8	1/2	5/8	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
2M	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
3																											
4	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0
5	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0

STANDARD SIGN
W6-3

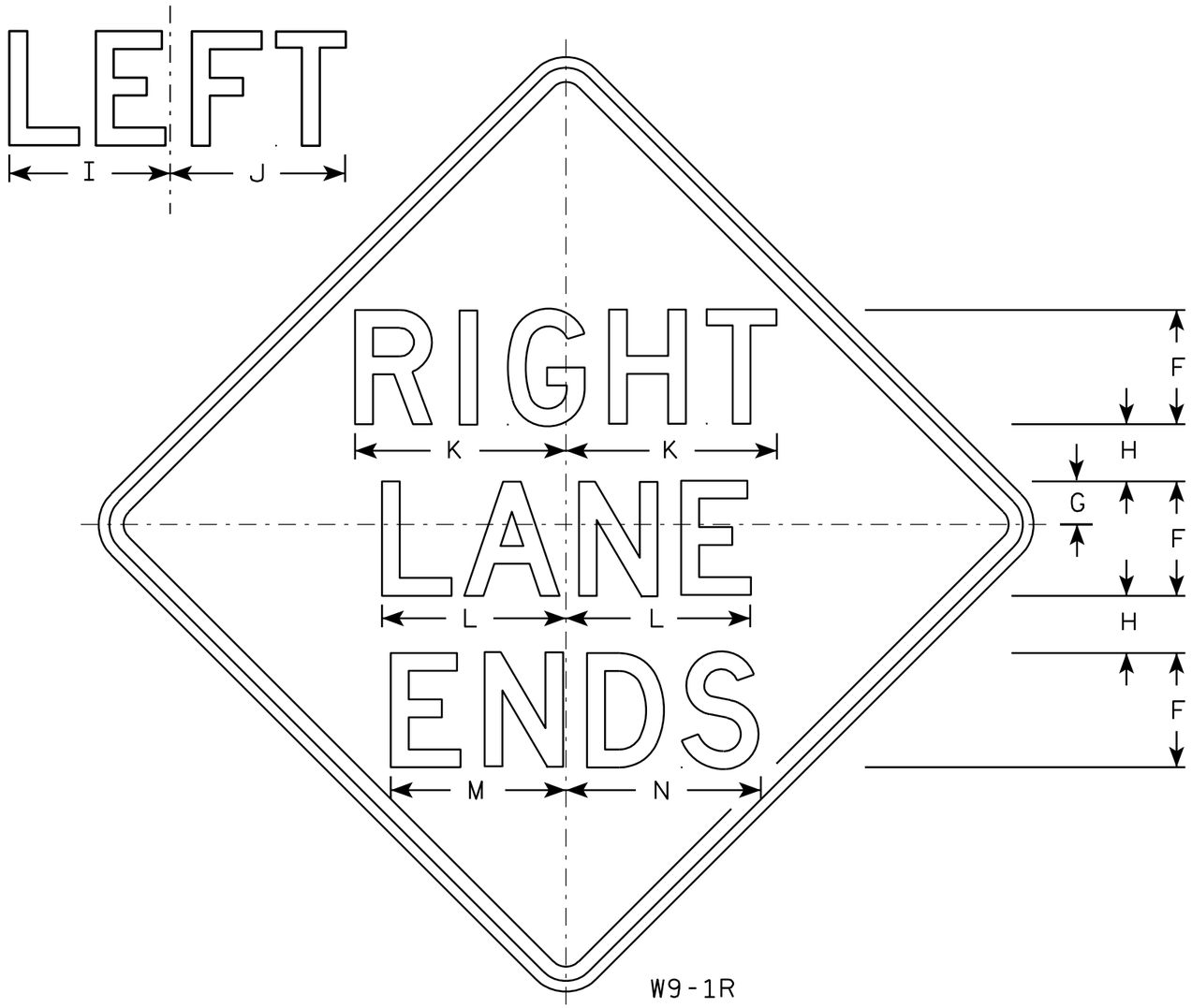
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE W6-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W63.DGN PLOT DATE : 10-MAR-2016 14:01 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.080757:1.000000
WISDOT/CADDS SHEET 42



W9-1R

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 - 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.
5. W9-1L same as W9-1R except the word Left replaces Right.

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	1 1/2	2 1/2	7 1/8	7 5/8	9 1/4	8 1/8	7 5/8	8 5/8													6.25
2S	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
2M	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
3	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
4	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
5	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0

STANDARD SIGN
W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

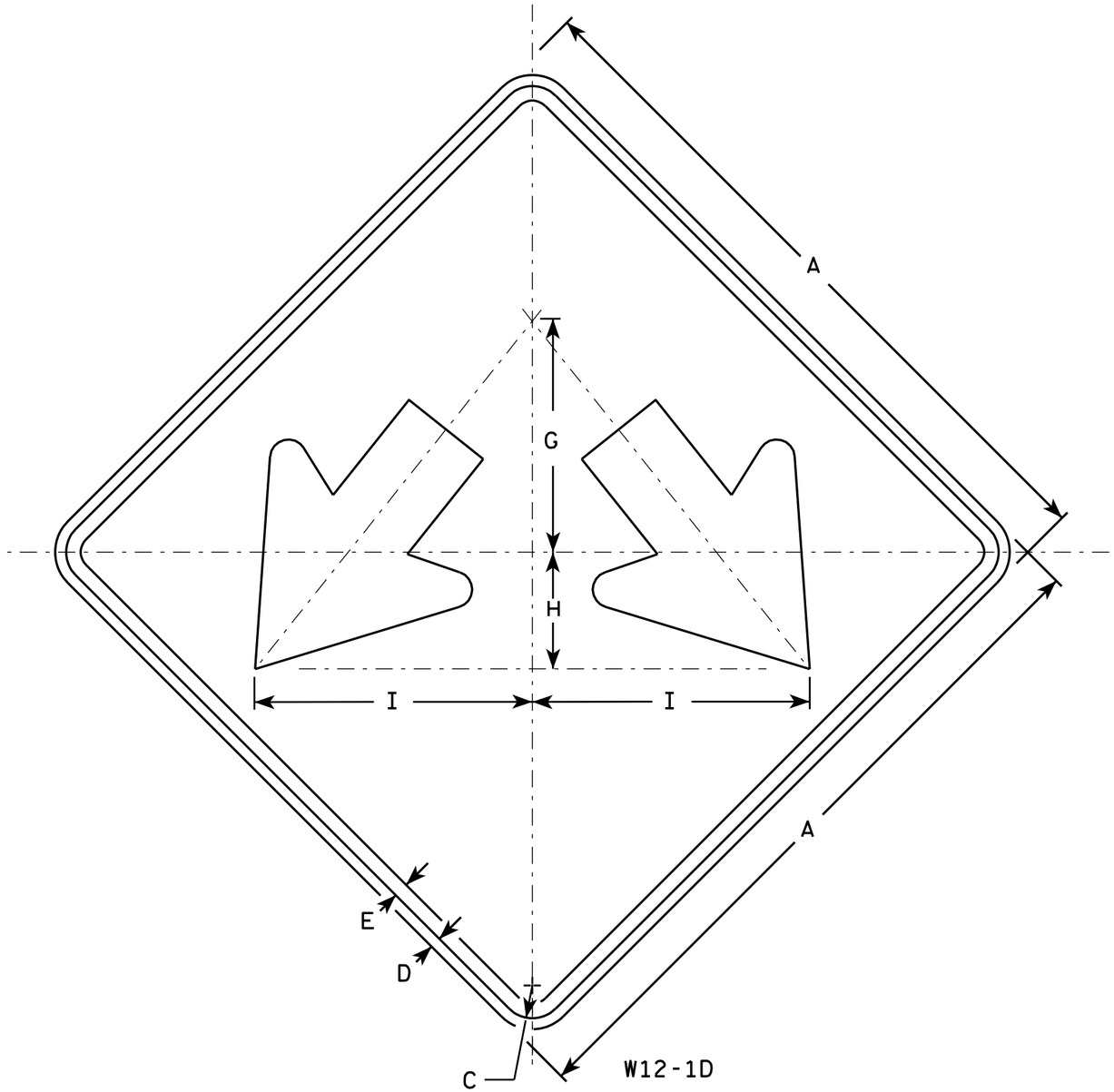
DATE 03/18/13 PLATE NO. W9-1.8

PROJECT NO:

SHEET NO: 411 E

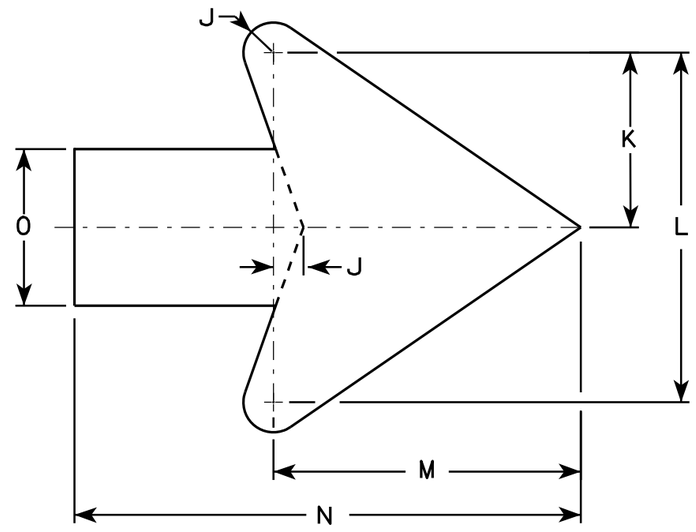
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W91.DGN PLOT DATE : 18-MAR-2013 11:42 PLOT BY : mscsja

WISDOT/CADDS SHEET 42



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. 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

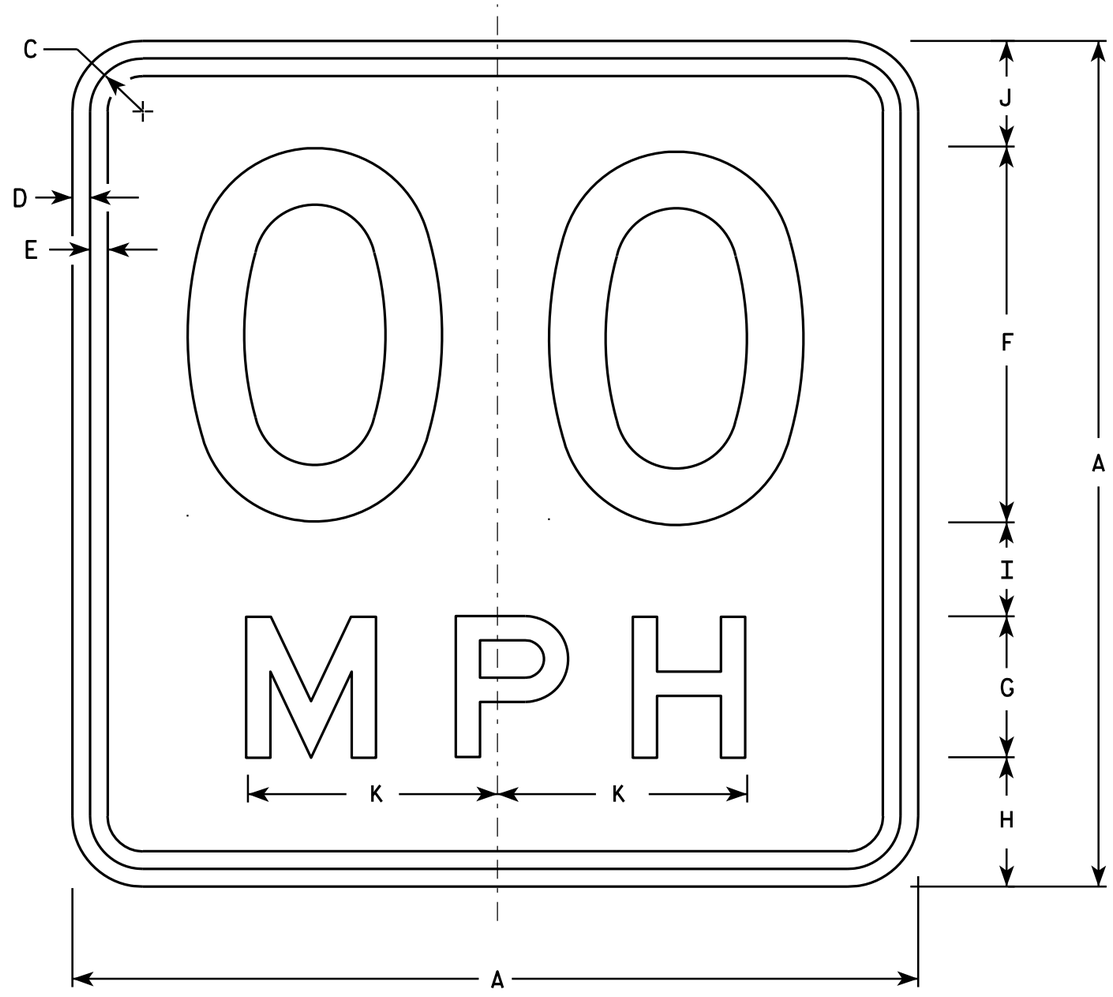
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 412	E



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 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 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

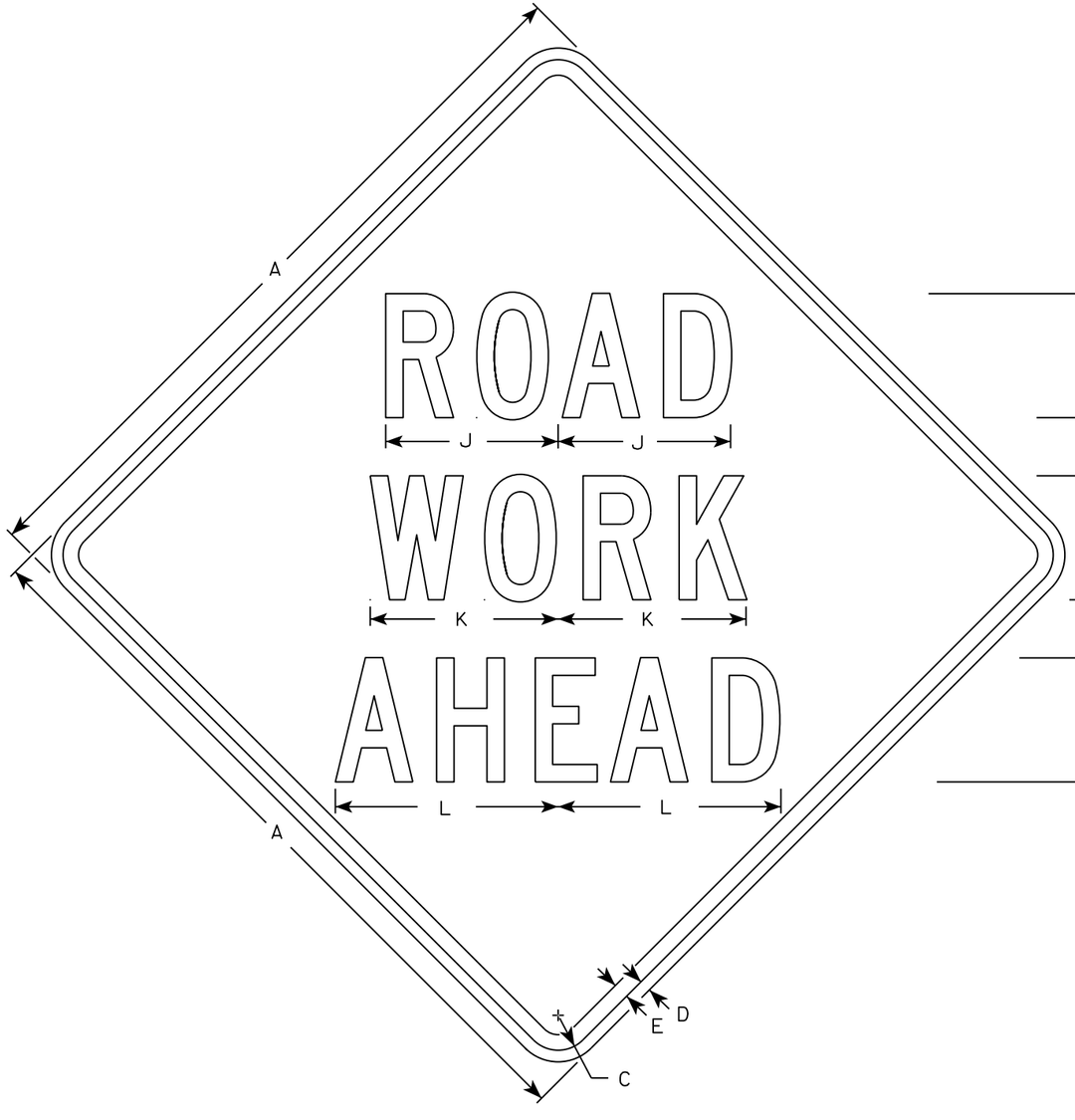
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

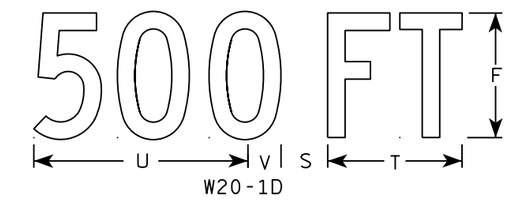
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

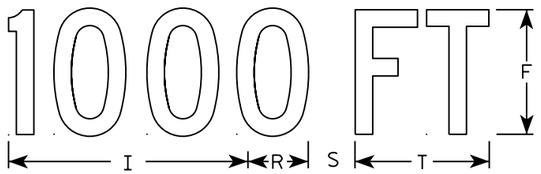
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 413 | E



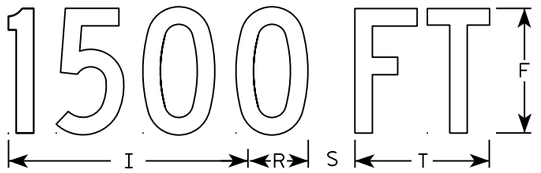
W20-1A



W20-1D



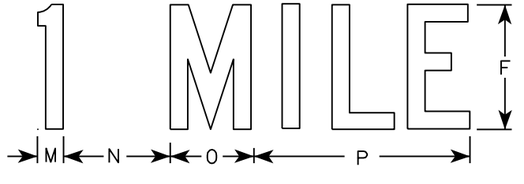
W20-1C



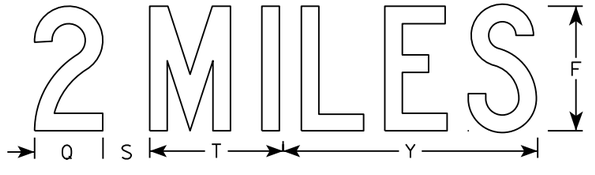
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
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.

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	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

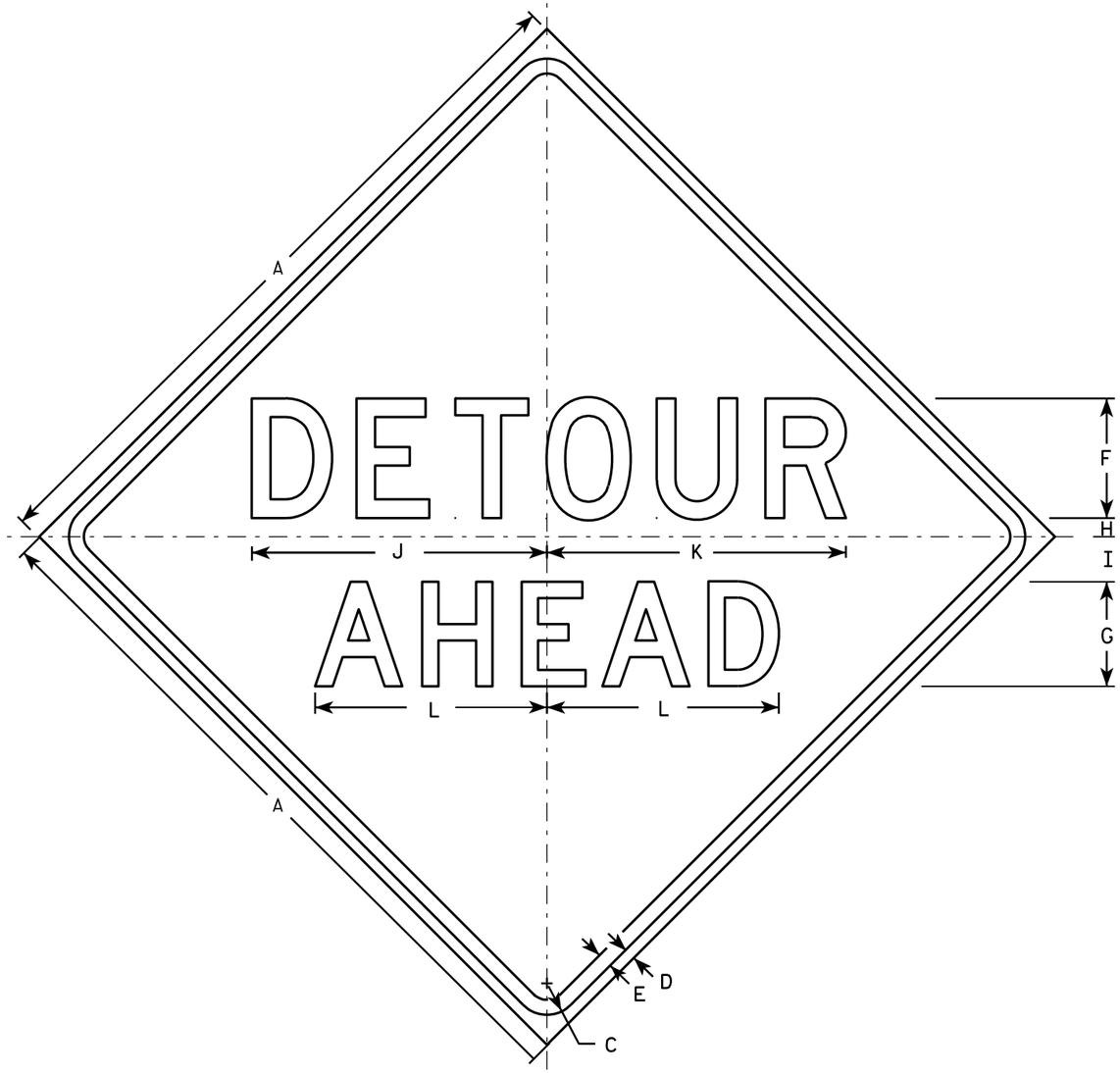
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

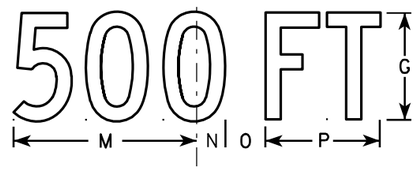
PROJECT NO:

SHEET NO: E

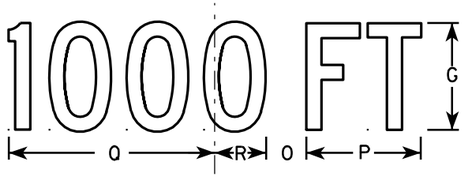
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



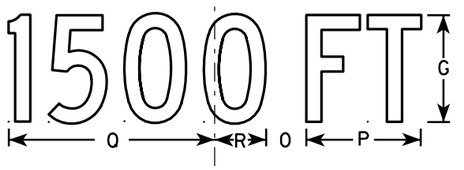
W20-2A



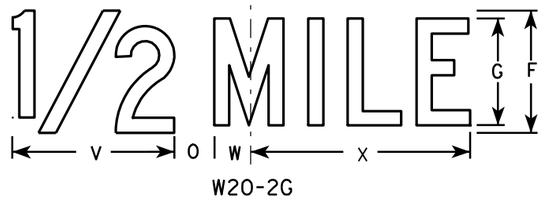
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

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	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

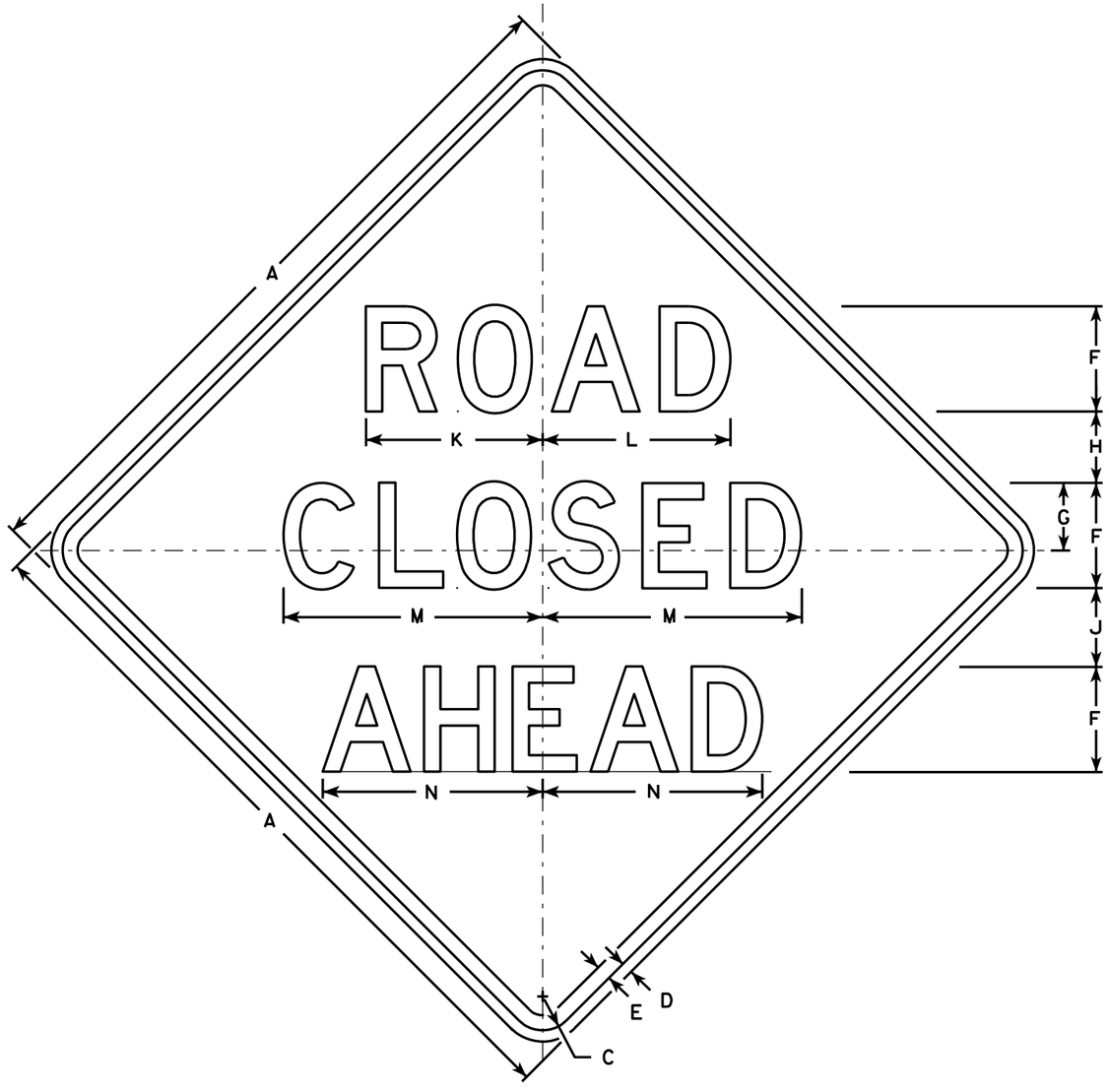
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

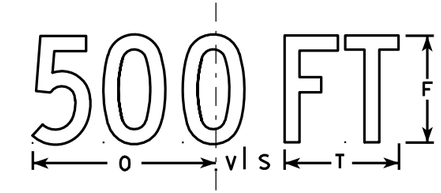
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

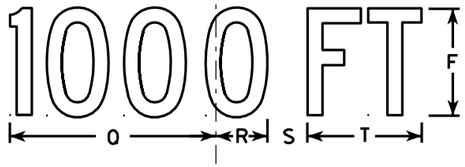
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 415	E



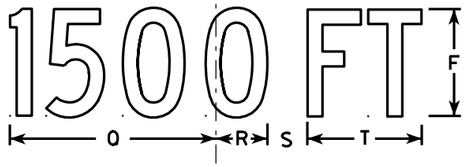
W20-3A



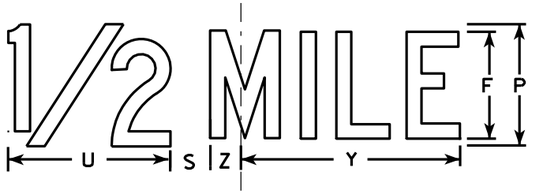
W20-3D



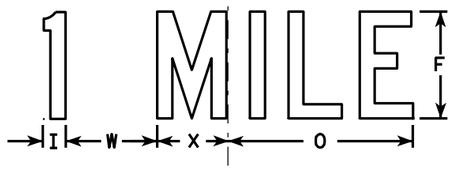
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

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	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

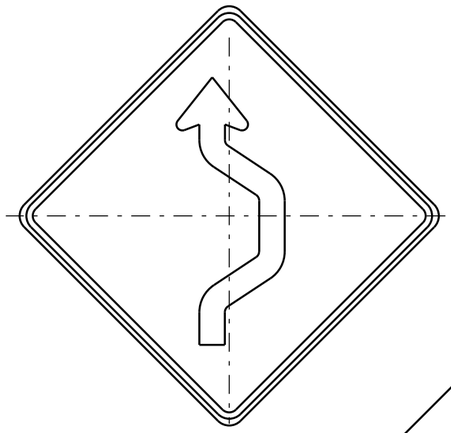
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-3.7

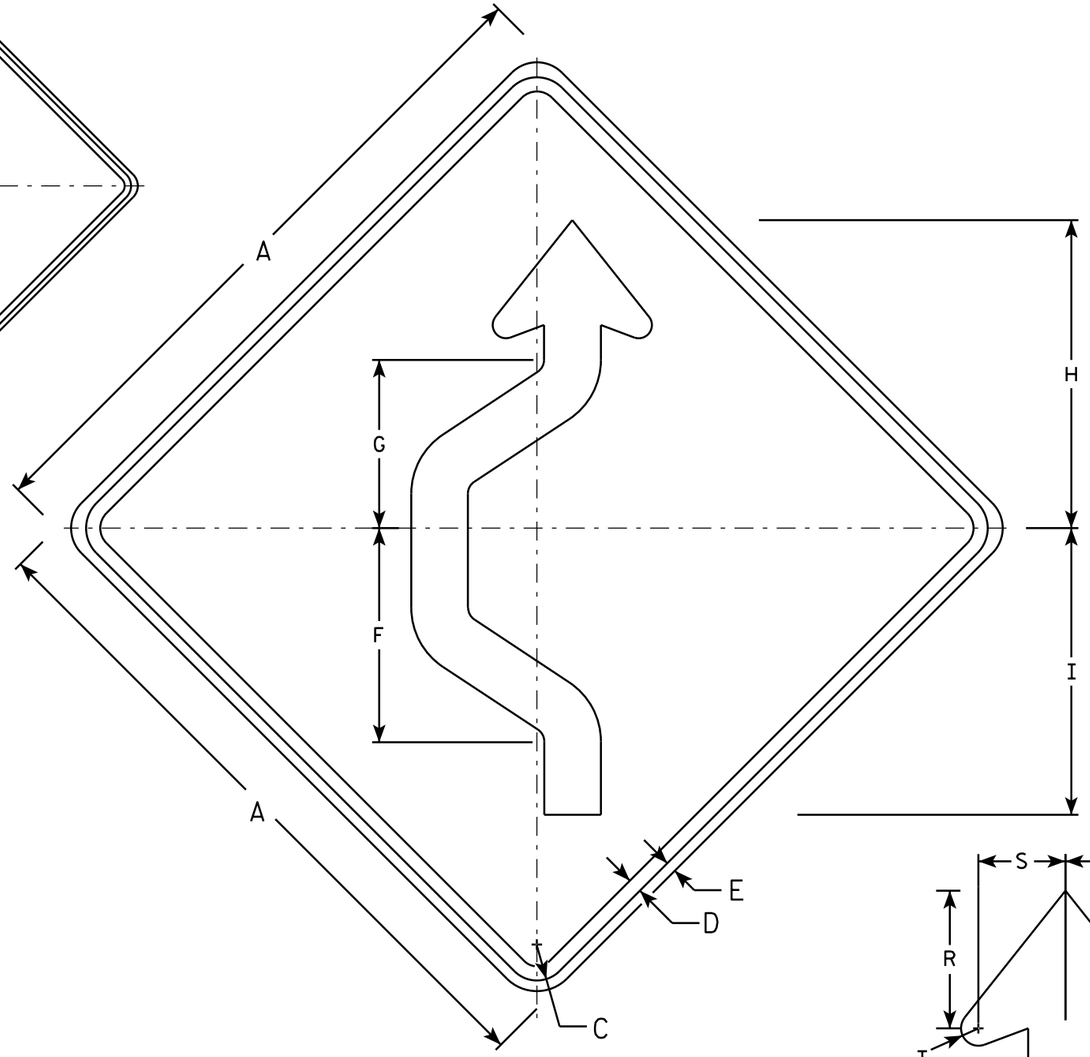
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 416 | E

7

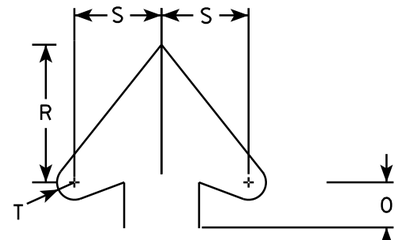
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



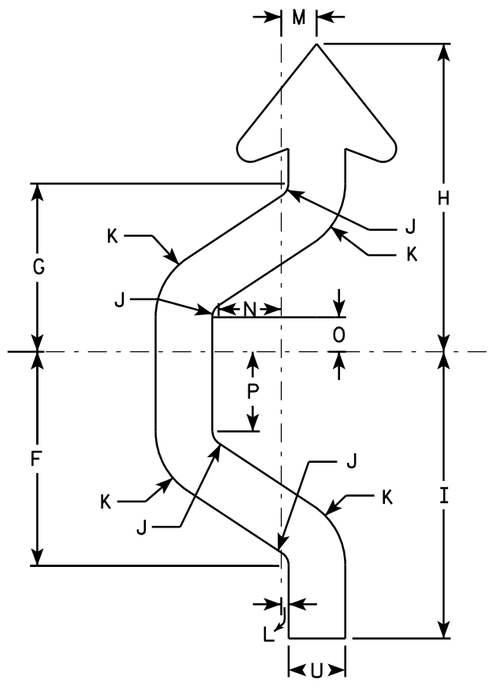
W24-1R



W24-1L



Arrowhead Detail



Arrow Detail

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. 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. W24-1R is the same as W24-1L except 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																											
2S	36		1 3/8	5/8	1/2	11 3/8	8 7/8	16 3/8	15 1/4	3/4	3 3/4	3/8	2	3 3/8	1 7/8	4 1/4		5 1/2	3 1/2	5/8	3						9
2M	36		1 3/8	5/8	1/2	11 3/8	8 7/8	16 3/8	15 1/4	3/4	3 3/4	3/8	2	3 3/8	1 7/8	4 1/4		5 1/2	3 1/2	5/8	3						9
3																											
4																											
5																											

STANDARD SIGN
W24-1 L & R

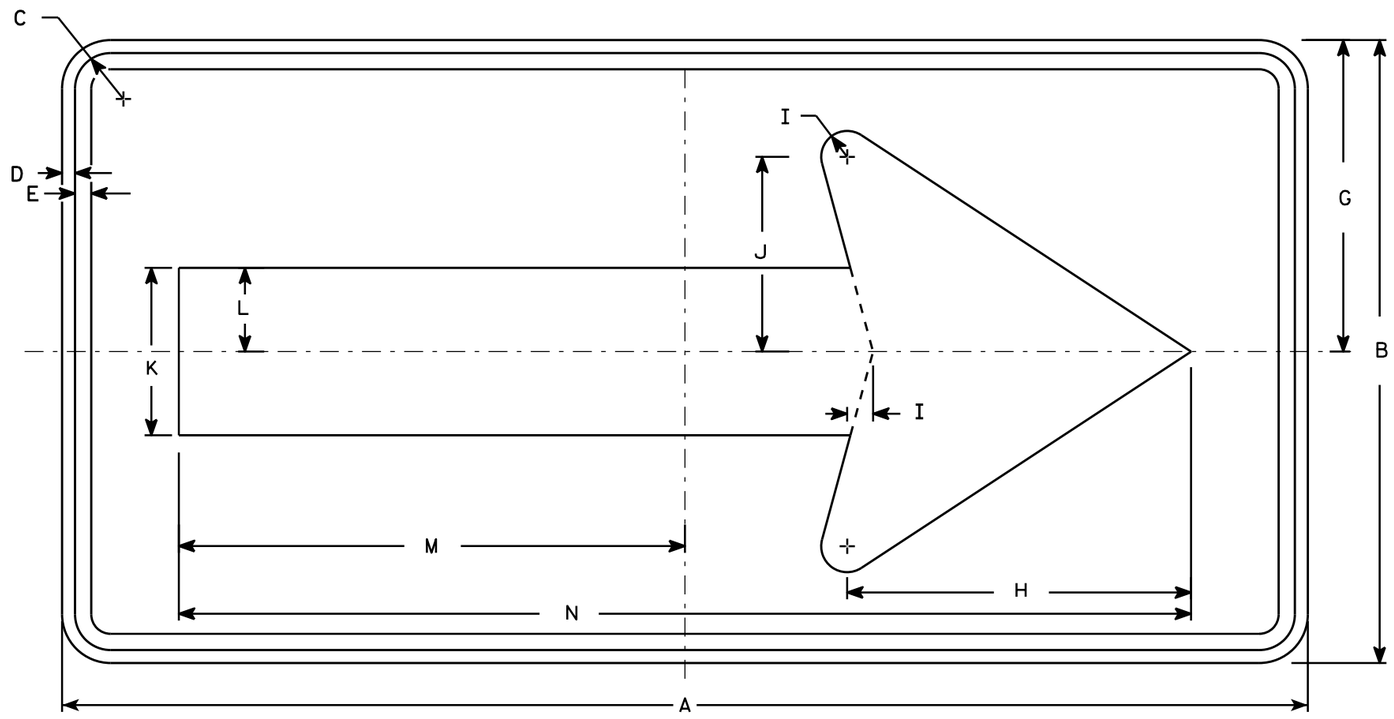
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/25/2013 PLATE NO. W24-1.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W241L.DGN PLOT DATE : 25-SEP-2013 13:00 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 10.702132:1.000000
WISDOT/CADDS SHEET 42



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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.

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	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

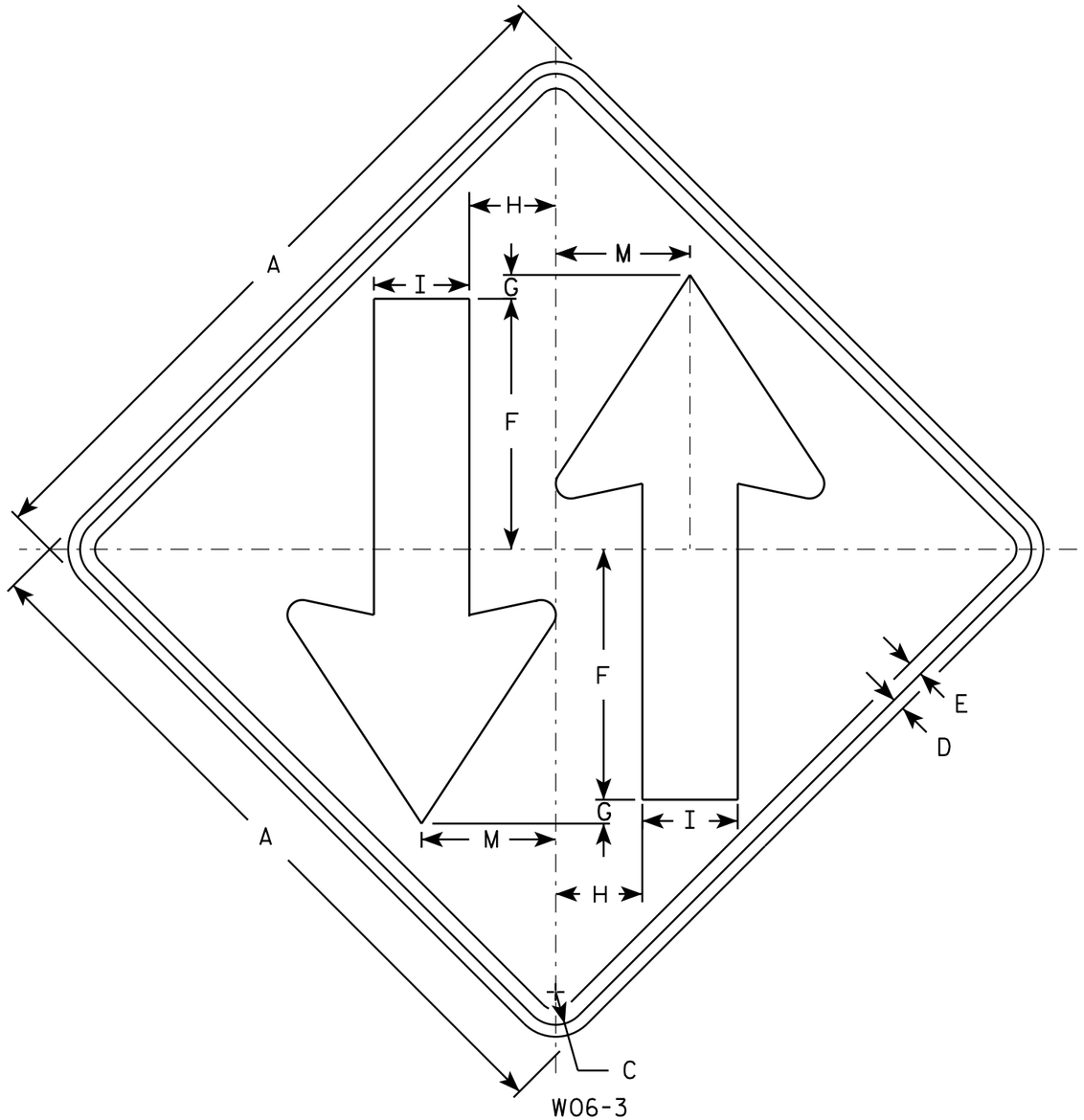
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE W01-6.1

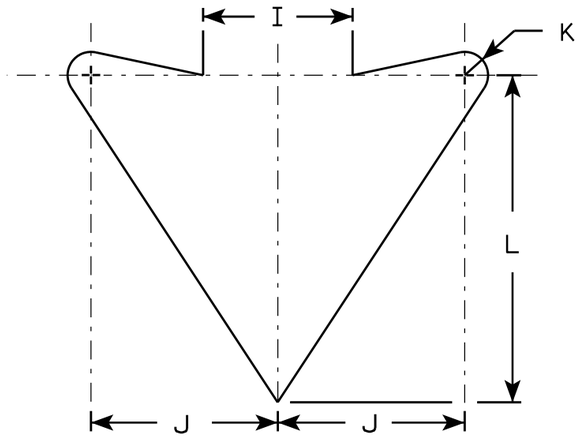
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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	36		1 5/8	5/8	3/4	12	1	4 1/4	5	6	3/4	10 1/2	6 3/4														9.0
2S	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
2M	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
3	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
4	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0
5	48		2 1/4	3/4	1	15 1/2	1	6	6	8	1	14	9														16.0

STANDARD SIGN
W06-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 419 W06-3.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

CTH K EB RL - WEST END

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
11+50.4	1150.40	0.00	107.69	0.00	0	0	0	0	0.00
12+00	1200.00	49.60	209.12	0.00	291	0	291	0	291.00
12+50	1250.00	50.00	244.23	0.01	420	0	711	0	710.77
13+00	1300.00	50.00	261.60	0.29	468	0	1,179	0	1,178.79
13+50	1350.00	50.00	207.54	34.58	434	32	1,614	41	1,572.82
14+00	1400.00	50.00	162.98	69.17	343	96	1,957	161	1,795.81
14+50	1450.00	50.00	138.33	123.14	279	178	2,236	383	1,852.24
15+00	1500.00	50.00	118.13	226.74	237	324	2,473	788	1,684.74
15+50	1550.00	50.00	103.56	294.09	205	482	2,678	1,391	1,287.19
16+00	1600.00	50.00	84.90	274.91	175	527	2,853	2,050	803.13
16+50	1650.00	50.00	102.92	213.50	174	452	3,027	2,615	411.75
17+00	1700.00	50.00	159.12	150.63	243	337	3,269	3,036	232.92
17+50	1750.00	50.00	173.21	121.30	308	252	3,577	3,351	225.90
18+00	1800.00	50.00	211.99	141.09	357	243	3,934	3,655	278.88
18+50	1850.00	50.00	259.58	186.13	437	303	4,370	4,034	336.78
19+00	1900.00	50.00	272.87	209.22	493	366	4,863	4,491	372.21
19+50	1950.00	50.00	122.74	343.53	366	512	5,230	5,131	98.77
20+00	2000.00	50.00	188.38	357.69	288	649	5,518	5,943	-424.75
20+50	2050.00	50.00	104.60	324.15	271	631	5,789	6,732	-942.63
21+00	2100.00	50.00	33.67	553.37	128	813	5,917	7,747	-1,830.25
21+50	2150.00	50.00	137.34	376.99	158	861	6,075	8,824	-2,748.71
22+00	2200.00	50.00	124.96	400.06	243	719	6,318	9,724	-3,405.21
22+50	2250.00	50.00	160.82	389.33	265	731	6,583	10,637	-4,054.24
23+00	2300.00	50.00	120.53	340.44	261	676	6,843	11,482	-4,638.36
23+50	2350.00	50.00	116.95	294.28	220	588	7,063	12,216	-5,153.08
24+00	2400.00	50.00	149.12	256.72	246	510	7,310	12,854	-5,544.44
24+50	2450.00	50.00	129.83	197.19	258	420	7,568	13,379	-5,811.50
25+00	2500.00	50.00	234.08	147.25	337	319	7,905	13,778	-5,873.20
25+50	2550.00	50.00	438.69	96.29	623	226	8,528	14,060	-5,532.15
26+00	2600.00	50.00	659.96	42.18	1,017	128	9,545	14,220	-4,675.15
26+50	2650.00	50.00	802.76	10.05	1,354	48	10,900	14,281	-3,381.24
27+00	2700.00	50.00	881.89	17.29	1,560	25	12,459	14,312	-1,853.02
27+50	2750.00	50.00	1000.25	0.00	1,743	16	14,202	14,332	-130.30
28+00	2800.00	50.00	1212.97	0.00	2,049	0	16,251	14,332	1,918.98
28+50	2850.00	50.00	1237.49	0.00	2,269	0	18,520	14,332	4,187.93
29+00	2900.00	50.00	1182.99	0.00	2,241	0	20,762	14,332	6,429.11
29+50	2950.00	50.00	901.65	0.00	1,930	0	22,692	14,332	8,359.33
30+00	3000.00	50.00	565.83	0.53	1,359	0	24,051	14,333	9,717.49
30+50	3050.00	50.00	331.11	4.67	830	5	24,881	14,339	10,541.95
31+00	3100.00	50.00	294.57	28.19	579	30	25,460	14,377	11,083.24
31+50	3150.00	50.00	107.98	37.88	373	61	25,833	14,454	11,379.51
31+90.85	3190.85	40.85	101.30	106.71	158	109	25,991	14,590	11,401.10
31+95	3195.00	4.15	103.89	124.81	16	18	26,007	14,613	11,394.62
32+00	3200.00	5.00	106.93	138.92	20	24	26,027	14,643	11,383.62
32+05	3205.00	5.00	110.08	146.17	20	26	26,047	14,676	11,370.71
32+10	3210.00	5.00	113.69	152.83	21	28	26,068	14,711	11,356.82
32+15	3215.00	5.00	114.47	159.67	21	29	26,089	14,747	11,341.78

32+20	3220.00	5.00	111.26	166.75	21	30	26,110	14,785	11,324.90
32+25	3225.00	5.00	108.73	171.23	20	31	26,130	14,824	11,306.15
32+30	3230.00	5.00	105.28	171.60	20	32	26,150	14,863	11,286.29
32+35	3235.00	5.00	102.20	162.63	19	31	26,169	14,902	11,266.82
32+40	3240.00	5.00	102.79	143.40	19	28	26,188	14,938	11,250.38
32+45	3245.00	5.00	106.04	126.01	19	25	26,207	14,969	11,238.53
32+50	3250.00	5.00	93.44	125.75	18	23	26,226	14,998	11,227.86
32+55	3255.00	5.00	95.15	122.56	17	23	26,243	15,027	11,216.58
32+60	3260.00	5.00	98.02	114.80	18	22	26,261	15,054	11,207.00
32+65	3265.00	5.00	106.10	105.45	19	20	26,280	15,080	11,200.41
32+70	3270.00	5.00	113.34	103.48	20	19	26,300	15,104	11,196.54
32+75	3275.00	5.00	108.17	102.00	21	19	26,321	15,128	11,193.27
32+80	3280.00	5.00	100.32	92.84	19	18	26,340	15,150	11,190.02
32+85	3285.00	5.00	96.73	70.99	18	15	26,358	15,169	11,189.31
32+90	3290.00	5.00	95.26	38.86	18	10	26,376	15,182	11,194.37
32+95	3295.00	5.00	98.75	2.32	18	4	26,394	15,187	11,207.57
33+00	3300.00	5.00	125.34	0.00	21	0	26,415	15,187	11,228.05
33+05	3305.00	5.00	148.79	0.00	25	0	26,440	15,187	11,253.43
33+10	3310.00	5.00	156.83	0.00	28	0	26,469	15,187	11,281.73
33+15	3315.00	5.00	157.16	0.00	29	0	26,498	15,187	11,310.80
33+20	3320.00	5.00	155.90	0.00	29	0	26,527	15,187	11,339.79
33+25	3325.00	5.00	155.04	0.00	29	0	26,555	15,187	11,368.58
33+30	3330.00	5.00	160.30	0.00	29	0	26,585	15,187	11,397.78
33+35	3335.00	5.00	178.10	0.00	31	0	26,616	15,187	11,429.11
33+40	3340.00	5.00	196.20	0.00	35	0	26,651	15,187	11,463.77
33+45	3345.00	5.00	209.27	0.00	38	0	26,688	15,187	11,501.32
33+50	3350.00	5.00	182.01	0.00	36	0	26,724	15,187	11,537.55
33+55	3355.00	5.00	206.74	0.00	36	0	26,760	15,187	11,573.54
33+60	3360.00	5.00	157.09	1.75	34	0	26,794	15,187	11,607.03
33+65	3365.00	5.00	141.81	71.36	28	7	26,822	15,195	11,626.24
33+70	3370.00	5.00	135.54	122.03	26	18	26,847	15,218	11,629.54
33+75	3375.00	5.00	125.61	95.82	24	20	26,872	15,243	11,628.51
33+80	3380.00	5.00	121.17	82.46	23	17	26,894	15,264	11,630.72
33+85	3385.00	5.00	121.30	80.38	22	15	26,917	15,283	11,634.33
33+90	3390.00	5.00	127.21	89.64	23	16	26,940	15,302	11,637.66
33+95	3395.00	5.00	133.42	89.07	24	17	26,964	15,323	11,641.11
34+00	3400.00	5.00	141.23	91.24	25	17	26,989	15,344	11,645.67
34+05	3405.00	5.00	145.13	82.99	27	16	27,016	15,364	11,652.02
34+10	3410.00	5.00	147.64	81.08	27	15	27,043	15,383	11,660.14
34+15	3415.00	5.00	150.34	78.62	28	15	27,071	15,401	11,669.24
34+20	3420.00	5.00	152.53	75.85	28	14	27,099	15,419	11,679.41
34+25	3425.00	5.00	154.72	72.28	28	14	27,127	15,436	11,690.71
34+28.44	3428.44	3.44	155.77	71.32	20	9	27,147	15,448	11,699.07
34+50	3450.00	21.56	178.67	56.97	134	51	27,280	15,512	11,768.56
35+00	3500.00	50.00	174.70	45.63	327	95	27,608	15,631	11,977.00
35+50	3550.00	50.00	206.78	14.14	353	55	27,961	15,700	12,261.04
36+00	3600.00	50.00	242.19	13.32	416	25	28,377	15,732	12,644.98
36+50	3650.00	50.00	215.85	24.25	424	35	28,801	15,775	13,025.61
37+00	3700.00	50.00	295.75	23.26	474	44	29,274	15,830	13,444.31
37+50	3750.00	50.00	326.05	29.36	576	49	29,850	15,891	13,959.16
37+99	3799.00	49.00	255.42	32.37	528	56	30,378	15,961	14,416.78
					30,378	12,769			

CTH K EB RL - EAST END

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
45+50	4550.00	0.00	42.40	89.71	0	0	0	0	0.00
46+00	4600.00	50.00	50.74	57.38	86	136	86	170	-84.00
46+50	4650.00	50.00	54.68	28.35	98	79	184	269	-85.62
47+00	4700.00	50.00	89.13	25.49	133	50	317	332	-14.78
47+50	4750.00	50.00	120.96	35.07	195	56	512	402	109.65
48+00	4800.00	50.00	136.13	50.59	238	79	750	501	248.56
48+50	4850.00	50.00	182.99	39.73	295	84	1,045	606	439.50
49+00	4900.00	50.00	107.35	81.31	269	112	1,314	746	568.24
49+50	4950.00	50.00	107.19	77.30	199	147	1,513	929	583.31
50+00	5000.00	50.00	98.12	102.14	190	166	1,703	1,137	565.73
50+50	5050.00	50.00	90.89	106.50	175	193	1,878	1,378	499.26
50+56.48	5056.48	6.48	91.20	101.07	22	25	1,900	1,410	489.98
50+60	5060.00	3.52	91.60	96.81	12	13	1,911	1,426	485.77
50+65	5065.00	5.00	92.32	95.76	17	18	1,928	1,448	480.51
50+70	5070.00	5.00	93.49	94.08	17	18	1,946	1,470	475.74
50+75	5075.00	5.00	95.62	93.03	18	17	1,963	1,492	471.60
50+80	5080.00	5.00	99.34	95.20	18	17	1,981	1,513	467.86
50+85	5085.00	5.00	107.20	105.76	19	19	2,000	1,537	463.73
50+90	5090.00	5.00	116.04	115.26	21	20	2,021	1,562	458.82
50+95	5095.00	5.00	126.42	116.65	22	21	2,043	1,589	454.43
51+00	5100.00	5.00	138.34	92.03	25	19	2,068	1,613	454.79
51+05	5105.00	5.00	149.61	58.95	27	14	2,095	1,631	463.97
51+10	5110.00	5.00	159.58	29.03	29	8	2,123	1,641	482.42
51+15	5115.00	5.00	176.31	21.05	31	5	2,154	1,647	507.72
51+20	5120.00	5.00	173.44	23.32	32	4	2,187	1,652	534.97
51+25	5125.00	5.00	156.94	26.12	31	5	2,217	1,658	559.84
51+30	5130.00	5.00	144.59	29.01	28	5	2,245	1,664	581.38
51+35	5135.00	5.00	142.36	35.34	27	6	2,272	1,671	600.50
51+40	5140.00	5.00	147.59	45.99	27	8	2,299	1,681	617.93
51+45	5145.00	5.00	146.50	48.69	27	9	2,326	1,692	634.21
51+50	5150.00	5.00	143.43	38.93	27	8	2,353	1,702	650.91
51+55	5155.00	5.00	136.39	15.80	26	5	2,379	1,708	670.49
51+60	5160.00	5.00	145.59	0.00	26	1	2,405	1,710	694.77
51+65	5165.00	5.00	147.20	0.00	27	0	2,432	1,710	721.88
51+70	5170.00	5.00	139.92	0.00	27	0	2,458	1,710	748.46
51+75	5175.00	5.00	133.43	0.00	25	0	2,484	1,710	773.77
51+80	5180.00	5.00	130.59	0.00	24	0	2,508	1,710	798.22
51+85	5185.00	5.00	130.40	0.00	24	0	2,532	1,710	822.39
51+90	5190.00	5.00	130.77	0.00	24	0	2,557	1,710	846.57
51+95	5195.00	5.00	130.94	0.00	24	0	2,581	1,710	870.80
52+00	5200.00	5.00	131.41	0.00	24	0	2,605	1,710	895.09
52+05	5205.00	5.00	129.28	0.00	24	0	2,629	1,710	919.23
52+10	5210.00	5.00	127.98	0.49	24	0	2,653	1,710	942.99
52+15	5215.00	5.00	120.04	1.06	23	0	2,676	1,710	965.78
52+20	5220.00	5.00	86.75	0.25	19	0	2,695	1,710	984.78
52+25	5225.00	5.00	41.94	0.81	12	0	2,707	1,711	996.57
52+27.4	5227.40	2.40	26.23	0.62	3	0	2,710	1,711	999.52
					2,710	1,368			

CTH K WB RL - EAST END

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
52+18.84	5216.19	0.00	28.27	16.14	0	0	0	0	0.00
52+25	5222.34	6.16	75.05	44.02	12	7	12	9	3.21
52+30	5227.34	5.00	101.31	53.19	16	9	28	20	8.28
52+35	5232.34	5.00	115.64	52.96	20	10	48	32	16.08
52+40	5237.34	5.00	122.33	50.58	22	10	70	44	26.13
52+45	5242.34	5.00	131.92	48.34	24	9	94	56	38.23
52+50	5247.34	5.00	141.18	47.53	25	9	119	67	52.42
52+55	5252.34	5.00	141.66	53.37	26	9	145	78	66.93
52+60	5257.34	5.00	133.82	74.26	26	12	171	93	77.67
52+65	5262.34	5.00	127.08	88.16	24	15	195	112	83.03
52+70	5267.34	5.00	122.69	96.69	23	17	218	133	84.76
52+75	5272.34	5.00	120.53	94.69	23	18	241	155	85.13
52+80	5277.34	5.00	127.78	91.58	23	17	264	177	86.56
52+85	5282.34	5.00	143.80	88.13	25	17	289	198	90.91
52+90	5287.34	5.00	164.30	85.64	29	16	317	218	99.32
52+95	5292.34	5.00	186.77	83.29	33	16	350	237	112.28
53+00	5297.34	5.00	207.87	83.00	37	15	386	257	129.57
53+05	5302.34	5.00	201.05	82.68	38	15	424	276	148.26
53+10	5307.34	5.00	189.18	84.09	36	15	460	295	165.09
53+15	5312.34	5.00	172.07	86.70	33	16	494	315	178.77
53+20	5317.34	5.00	158.06	88.58	31	16	524	335	189.05
53+25	5322.34	5.00	150.36	88.47	29	16	553	356	197.11
53+30	5327.34	5.00	144.70	86.56	27	16	580	376	204.18
53+35	5332.34	5.00	141.50	86.62	26	16	607	396	210.63
53+40	5337.34	5.00	139.15	87.22	26	16	633	416	216.50
53+45	5342.34	5.00	138.27	88.58	26	16	658	437	221.84
53+50	5347.34	5.00	139.34	91.89	26	17	684	457	226.66
54+00	5397.34	50.00	240.73	85.92	352	165	1,036	663	372.78
54+50	5447.34	50.00	228.08	69.21	434	144	1,470	843	627.31
55+00	5497.34	50.00	254.34	61.95	447	121	1,917	995	922.18
55+50	5547.34	50.00	272.81	61.00	488	114	2,405	1,137	1,267.98
56+00	5597.34	50.00	274.93	55.98	507	108	2,912	1,272	1,639.75
56+50	5647.34	50.00	240.64	63.73	477	111	3,389	1,411	1,978.58
57+00	5697.34	50.00	187.63	80.57	397	134	3,786	1,578	2,208.10
57+50	5747.34	50.00	160.54	81.19	322	150	4,108	1,765	2,343.25
58+00	5797.34	50.00	122.97	91.38	263	160	4,371	1,965	2,406.02
58+50	5847.34	50.00	100.49	118.23	207	194	4,578	2,207	2,370.34
58+58.46	5855.80	8.46	114.00	103.70	34	35	4,611	2,251	2,360.48
58+65	5862.34	6.54	117.48	107.91	28	26	4,639	2,283	2,356.48
58+70	5867.34	5.00	118.78	100.37	22	19	4,661	2,307	2,354.25
58+75	5872.34	5.00	119.78	95.18	22	18	4,683	2,330	2,353.71
58+80	5877.34	5.00	122.23	78.63	22	16	4,706	2,350	2,356.00
58+85	5882.34	5.00	128.17	55.95	23	12	4,729	2,365	2,363.61
58+90	5887.34	5.00	137.60	45.62	25	9	4,754	2,377	2,376.46
58+95	5892.34	5.00	148.55	36.87	26	8	4,780	2,387	2,393.41
59+00	5897.34	5.00	146.11	24.27	27	6	4,807	2,394	2,413.61
59+05	5902.34	5.00	141.60	10.16	27	3	4,834	2,398	2,436.27

59+10	5907.34	5.00	134.21	10.86	26	2	4,859	2,400	2,459.37
59+15	5912.34	5.00	137.34	11.62	25	2	4,885	2,403	2,481.91
59+20	5917.34	5.00	142.62	12.35	26	2	4,911	2,405	2,505.06
59+25	5922.34	5.00	146.02	13.76	27	2	4,937	2,409	2,528.76
59+30	5927.34	5.00	146.30	26.61	27	4	4,964	2,413	2,551.16
59+35	5932.34	5.00	143.53	39.25	27	6	4,991	2,421	2,570.37
59+40	5937.34	5.00	117.53	60.20	24	9	5,015	2,432	2,583.03
59+45	5942.34	5.00	102.13	76.23	20	13	5,036	2,448	2,587.58
59+50	5947.34	5.00	89.78	97.17	18	16	5,053	2,468	2,585.28
59+55	5952.34	5.00	81.12	112.14	16	19	5,069	2,492	2,576.88
59+60	5957.34	5.00	81.83	121.69	15	22	5,084	2,519	2,564.90
59+65	5962.34	5.00	96.18	131.44	16	23	5,101	2,549	2,552.09
59+70	5967.34	5.00	113.67	137.52	19	25	5,120	2,580	2,540.39
59+75	5972.34	5.00	119.47	143.38	22	26	5,142	2,612	2,529.47
59+80	5977.34	5.00	114.02	149.58	22	27	5,163	2,646	2,517.18
59+85	5982.34	5.00	107.23	154.55	20	28	5,184	2,682	2,502.47
59+87.08	5984.42	2.08	104.32	159.68	8	12	5,192	2,697	2,495.50
60+00	5997.34	12.92	119.69	155.60	54	75	5,246	2,791	2,454.79
60+50	6047.34	50.00	134.94	131.54	236	266	5,481	3,123	2,358.22
61+00	6097.34	50.00	109.33	138.64	226	250	5,708	3,436	2,271.70
61+50	6147.34	50.00	110.44	135.89	203	254	5,911	3,754	2,157.45
62+00	6197.34	50.00	112.58	121.83	207	239	6,118	4,052	2,065.68
62+50	6247.34	50.00	126.81	107.88	222	213	6,339	4,318	2,021.46
63+00	6297.34	50.00	140.82	52.92	248	149	6,587	4,504	2,083.15
63+50	6347.34	50.00	188.88	20.92	305	68	6,892	4,589	2,302.97
64+00	6397.34	50.00	218.72	8.69	377	27	7,270	4,624	2,646.11
64+50	6447.34	50.00	239.73	4.28	424	12	7,694	4,639	3,055.58
65+00	6497.34	50.00	257.88	3.86	461	8	8,155	4,648	3,506.90
65+50	6547.34	50.00	292.26	4.50	509	8	8,664	4,658	4,006.61
66+00	6597.34	50.00	283.47	6.84	533	11	9,198	4,671	4,526.56
66+50	6647.34	50.00	271.67	5.50	514	11	9,712	4,685	5,026.30
67+00	6697.34	50.00	226.43	8.36	461	13	10,173	4,701	5,471.46
67+50	6747.34	50.00	202.90	12.06	398	19	10,570	4,725	5,845.35
68+00	6797.34	50.00	197.98	11.03	371	21	10,941	4,752	6,189.81
68+50	6847.34	50.00	170.13	27.53	341	36	11,282	4,796	6,486.03
69+00	6897.34	50.00	192.96	32.65	336	56	11,619	4,866	6,752.58
69+50	6947.34	50.00	183.31	41.84	348	69	11,967	4,952	7,014.76
70+00	6997.34	50.00	179.48	41.71	336	77	12,303	5,049	7,253.98
70+50	7047.34	50.00	188.33	48.80	341	84	12,643	5,154	7,489.78
71+00	7097.34	50.00	215.25	0.31	374	45	13,017	5,210	7,806.63
71+50	7147.34	50.00	203.57	4.05	388	4	13,405	5,215	8,189.38
72+00	7197.34	50.00	189.53	0.29	364	4	13,769	5,221	8,548.33
72+50	7247.34	50.00	179.10	0.87	341	1	14,110	5,222	8,888.31
73+00	7297.34	50.00	172.84	1.06	326	2	14,436	5,224	9,211.95
73+50	7347.34	50.00	167.42	0.00	315	1	14,751	5,225	9,525.78
74+00	7397.34	50.00	182.56	0.09	324	0	15,075	5,225	9,849.73
74+50	7447.34	50.00	180.27	0.65	336	1	15,411	5,226	10,184.82
75+00	7497.34	50.00	167.62	3.59	322	4	15,733	5,231	10,502.04
75+50	7547.34	50.00	180.15	0.31	322	4	16,055	5,236	10,819.53
76+00	7597.34	50.00	150.02	0.00	306	0	16,361	5,236	11,124.88
					16,361	4,189			

WEST FRONTAGE ROAD - NORTH

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
4053+74.38	405374.38	0.00	117.67	193.00	0	0	0	0	0.00
4053+75	405375.00	0.62	49.60	0.06	2	2	2	3	-0.85
4053+80	405380.00	5.00	57.01	3.18	10	0	12	3	8.65
4053+85	405385.00	5.00	51.23	13.15	10	2	22	5	16.78
4053+90	405390.00	5.00	52.36	24.51	10	3	31	9	22.01
4053+95	405395.00	5.00	56.65	34.01	10	5	41	16	25.33
4054+00	405400.00	5.00	61.34	38.87	11	7	52	25	27.82
4054+05	405405.00	5.00	61.28	39.95	11	7	64	34	30.05
4054+10	405410.00	5.00	62.92	41.90	11	8	75	43	32.08
4054+15	405415.00	5.00	73.38	49.29	13	8	88	54	34.15
4054+20	405420.00	5.00	78.67	67.35	14	11	102	67	34.72
4054+25	405425.00	5.00	83.24	74.30	15	13	117	84	33.32
4054+30	405430.00	5.00	83.71	59.49	15	12	132	99	33.29
4054+35	405435.00	5.00	82.19	48.60	15	10	148	112	36.14
4054+40	405440.00	5.00	77.23	44.21	15	9	163	122	40.16
4054+45	405445.00	5.00	72.39	41.82	14	8	176	132	44.06
4054+50	405450.00	5.00	66.30	41.70	13	8	189	142	47.23
4054+55	405455.00	5.00	64.58	43.76	12	8	201	152	49.46
4054+60	405460.00	5.00	64.69	47.14	12	8	213	162	50.91
4054+65	405465.00	5.00	65.27	49.76	12	9	225	174	51.73
4054+70	405470.00	5.00	68.98	49.84	12	9	238	185	52.63
4054+70.05	405470.05	0.05	69.05	49.83	0	0	238	185	52.64
4055+00	405500.00	29.95	56.51	19.05	70	38	308	233	74.53
4055+50	405550.00	50.00	2.96	15.68	55	32	363	273	89.40
4056+00	405600.00	50.00	2.92	17.12	5	30	368	311	56.88
4056+50	405650.00	50.00	2.90	16.50	5	31	373	350	23.35
					373	280			

WEST FRONTAGE ROAD - SOUTH

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
2055+00	205500.00	0.00	2.84	3.92	0	0	0	0	0.00
2055+50	205550.00	50.00	3.11	10.64	6	13	6	17	-11.34
2056+00	205600.00	50.00	3.08	11.46	6	20	11	42	-31.19
2056+50	205650.00	50.00	3.13	10.48	6	20	17	68	-50.83
2057+00	205700.00	50.00	3.13	10.43	6	19	23	92	-69.24
2057+50	205750.00	50.00	87.18	10.47	84	19	106	116	-9.82
2058+00	205800.00	50.00	92.08	13.43	166	22	272	144	128.50
2058+05	205805.00	5.00	92.98	14.23	17	3	290	147	142.43
2058+10	205810.00	5.00	93.34	13.60	17	3	307	150	156.47
2058+15	205815.00	5.00	160.90	13.31	24	2	330	153	176.89
2058+20	205820.00	5.00	157.20	13.87	29	3	360	157	203.20
2058+25	205825.00	5.00	156.82	14.49	29	3	389	160	228.99
2058+30	205830.00	5.00	155.80	15.66	29	3	418	163	254.45
2058+35	205835.00	5.00	153.40	17.15	29	3	446	167	279.28
2058+40	205840.00	5.00	153.19	18.96	28	3	475	171	303.49
2058+45	205845.00	5.00	148.50	20.39	28	4	503	176	326.87
2058+50	205850.00	5.00	140.84	28.93	27	5	530	182	347.95
2058+55	205855.00	5.00	120.23	29.28	24	5	554	188	365.39
2058+60	205860.00	5.00	113.82	28.88	22	5	575	195	380.33
2058+65	205865.00	5.00	123.65	20.10	22	5	597	201	396.65
2058+70	205870.00	5.00	132.48	14.41	24	3	621	205	416.37
2058+75	205875.00	5.00	122.61	12.66	24	3	645	208	436.86
2058+80	205880.00	5.00	107.35	9.84	21	2	666	210	455.55
2058+85	205885.00	5.00	93.87	6.57	19	2	685	212	472.28
2058+90	205890.00	5.00	90.92	0.00	17	1	702	213	488.63
2058+95	205895.00	5.00	72.38	0.00	15	0	717	213	503.75
2058+99.38	205899.38	4.38	56.16	0.00	10	0	727	213	514.18
					727	170			

EAST FRONTAGE ROAD - NORTH

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
5052+20	505220.00	0.00	3.40	3.58	0	0	0	0	0.00
5052+25	505225.00	5.00	27.34	34.29	3	4	3	4	-1.54
5052+30	505230.00	5.00	47.27	54.94	7	8	10	15	-4.96
5052+35	505235.00	5.00	51.34	50.50	9	10	19	27	-8.03
5052+40	505240.00	5.00	57.66	41.03	10	8	29	38	-8.53
5052+45	505245.00	5.00	73.11	35.26	12	7	41	46	-5.25
5052+50	505250.00	5.00	91.31	33.87	15	6	56	54	1.97
5052+55	505255.00	5.00	105.81	33.67	18	6	75	62	12.41
5052+60	505260.00	5.00	107.26	46.58	20	7	94	71	22.85
5052+65	505265.00	5.00	109.52	51.27	20	9	114	83	31.59
5052+70	505270.00	5.00	109.86	50.60	20	9	135	95	40.12
5052+75	505275.00	5.00	113.54	50.67	21	9	155	106	49.08
5052+80	505280.00	5.00	115.31	50.18	21	9	177	118	58.60
5052+85	505285.00	5.00	129.85	38.08	23	8	199	128	71.08
5052+90	505290.00	5.00	131.60	52.64	24	8	223	139	84.79
5052+95	505295.00	5.00	133.41	68.02	25	11	248	153	95.36
5053+00	505300.00	5.00	135.98	65.89	25	12	273	168	104.81
5053+05	505305.00	5.00	140.86	59.62	26	12	299	183	115.91
5053+10	505310.00	5.00	145.95	53.95	27	11	325	196	129.33
5053+15	505315.00	5.00	151.54	48.67	28	10	353	208	144.99
5053+20	505320.00	5.00	156.81	44.95	29	9	381	219	162.71
5053+24.4	505324.40	4.40	161.95	42.45	26	7	407	227	179.77
5053+50	505350.00	25.60	174.15	26.66	159	33	567	268	298.16
5054+00	505400.00	50.00	120.58	14.94	273	39	839	317	522.91
5054+50	505450.00	50.00	141.59	7.73	243	21	1,082	343	739.43
5055+00	505500.00	50.00	155.37	1.13	275	8	1,357	353	1,004.13
5055+50	505550.00	50.00	119.39	0.00	254	1	1,612	354	1,257.24
					1,612	283			

EAST FRONTAGE ROAD -SOUTH

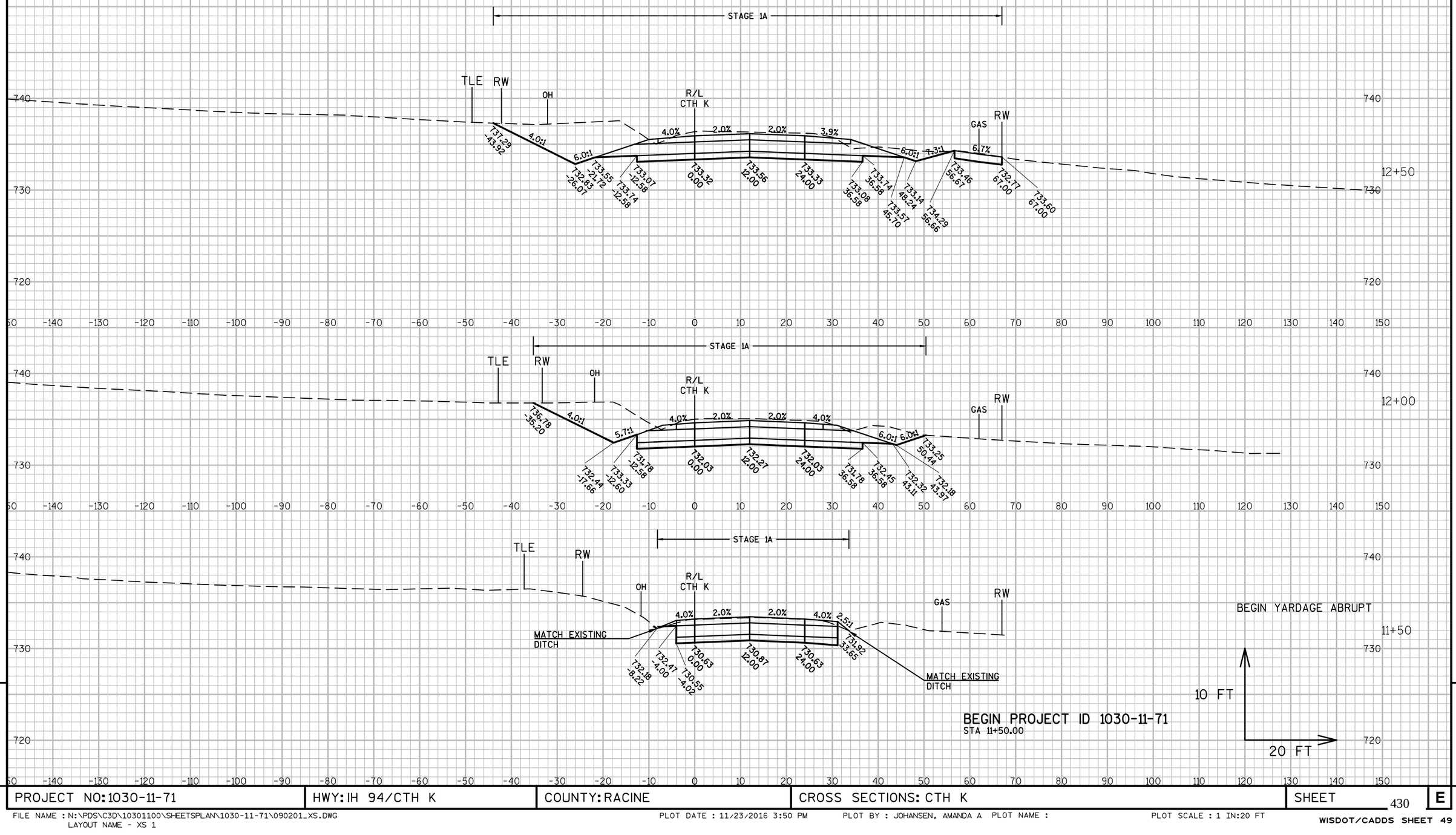
STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
3051+00	305100.00	0.00	51.64	5.58	0	0	0	0	0.00
3051+50	305150.00	50.00	47.05	14.42	91	19	91	23	68.23
3052+00	305200.00	50.00	48.10	21.39	88	33	179	65	114.89
3052+50	305250.00	50.00	48.23	40.79	89	58	269	137	132.11
3053+00	305300.00	50.00	29.94	31.98	72	67	341	221	120.27
3053+50	305350.00	50.00	92.43	18.96	113	47	454	280	174.61
3054+00	305400.00	50.00	146.41	29.13	221	45	676	335	340.09
3054+50	305450.00	50.00	197.85	46.66	319	70	994	423	571.11
3054+82.37	305482.37	32.37	165.86	43.88	218	54	1,212	491	721.28
3054+85	305485.00	2.63	156.22	43.77	16	4	1,228	496	731.64
3054+90	305490.00	5.00	157.43	43.38	29	8	1,257	506	750.60
3054+95	305495.00	5.00	158.85	86.29	29	12	1,286	521	764.88
3055+00	305500.00	5.00	215.46	117.81	35	19	1,321	545	775.91
3055+05	305505.00	5.00	218.96	116.08	40	22	1,361	572	789.06
3055+10	305510.00	5.00	224.34	114.21	41	21	1,402	599	803.46
3055+15	305515.00	5.00	227.67	112.70	42	21	1,444	625	819.05
3055+20	305520.00	5.00	231.58	105.83	43	20	1,487	650	836.28
3055+25	305525.00	5.00	237.66	101.66	43	19	1,530	674	855.71
3055+30	305530.00	5.00	240.68	97.77	44	18	1,574	697	876.92
3055+35	305535.00	5.00	231.28	93.72	44	18	1,618	720	898.45
3055+40	305540.00	5.00	205.86	88.90	40	17	1,659	741	917.79
3055+45	305545.00	5.00	167.08	85.95	35	16	1,693	761	932.09
3055+50	305550.00	5.00	130.20	83.87	28	16	1,721	781	939.96
3055+55	305555.00	5.00	102.79	81.10	22	15	1,742	800	942.44
3055+60	305560.00	5.00	90.88	72.32	18	14	1,760	817	942.62
3055+65	305565.00	5.00	89.62	59.18	17	12	1,777	833	944.11
3055+70	305570.00	5.00	88.71	32.79	17	9	1,793	843	949.97
3055+75	305575.00	5.00	88.47	21.51	16	5	1,810	850	960.09
3055+80	305580.00	5.00	75.25	21.60	15	4	1,825	855	970.26
3055+85	305585.00	5.00	46.30	24.95	11	4	1,836	860	976.13
3055+90	305590.00	5.00	35.09	13.56	8	4	1,844	864	979.21
					1,844	692			

CTH K TRANSITION - WEST

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
338+50	33850.00	0.00	168.64	10.29	0	0	0	0	0.00
339+00	33900.00	50.00	125.48	7.50	272	16	272	21	251.74
339+50	33950.00	50.00	65.67	10.80	177	17	449	42	407.54
340+00	34000.00	50.00	33.70	14.09	92	23	541	71	470.74
340+50	34050.00	50.00	28.77	27.13	58	38	599	118	480.88
341+00	34100.00	50.00	35.89	46.80	60	68	659	204	455.18
					659	163			

CAROL ROAD

STATION	Real Station	Distance	AREA (SF) Cut	AREA (SF) Fill	Incremental Vol (CY) (Unadjusted) Cut Note 1	Incremental Vol (CY) (Unadjusted) Fill Note 3	Cumulative Vol (CY) Cut 1.00 Note 1	Cumulative Vol (CY) Expanded Fill 1.25	Mass Ordinate Note 8
10+25	1025.00	0.00	4.22	0.00	0	0	0	0	0.00
10+30	1030.00	5.00	24.71	0.00	3	0	3	0	2.68
10+35	1035.00	5.00	44.08	0.00	6	0	9	0	9.05
10+40	1040.00	5.00	59.83	0.00	10	0	19	0	18.67
10+45	1045.00	5.00	65.75	1.84	12	0	30	0	30.08
10+50	1050.00	5.00	65.51	18.50	12	2	42	3	39.88
10+55	1055.00	5.00	67.89	43.54	12	6	55	10	45.05
10+60	1060.00	5.00	69.64	70.23	13	11	68	23	44.62
10+65	1065.00	5.00	72.99	76.06	13	14	81	40	40.90
10+70	1070.00	5.00	93.36	52.19	15	12	96	55	41.45
10+75	1075.00	5.00	125.17	12.36	20	6	116	62	54.22
10+80	1080.00	5.00	136.04	9.41	24	2	141	65	75.88
10+85	1085.00	5.00	134.60	7.59	25	2	166	67	98.98
10+90	1090.00	5.00	132.30	6.25	25	1	190	68	122.09
10+93.2	1093.20	3.20	132.08	5.51	16	1	206	69	136.88
11+00	1100.00	6.80	130.14	0.00	33	1	239	70	169.04
11+43.27	1143.27	43.27	73.09	0.00	163	0	402	70	331.88
					402	56			



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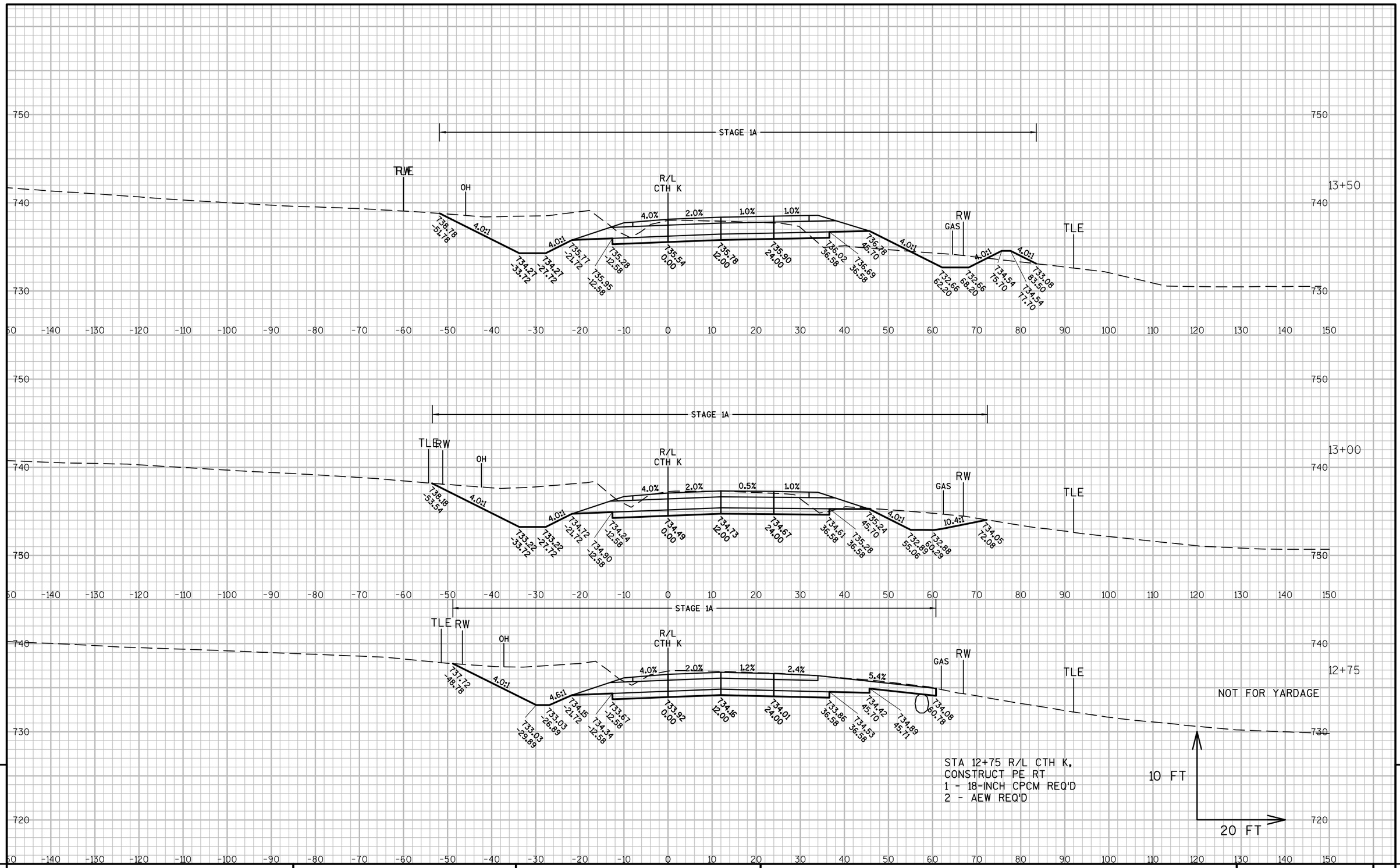
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PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 431	E

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PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 432 E

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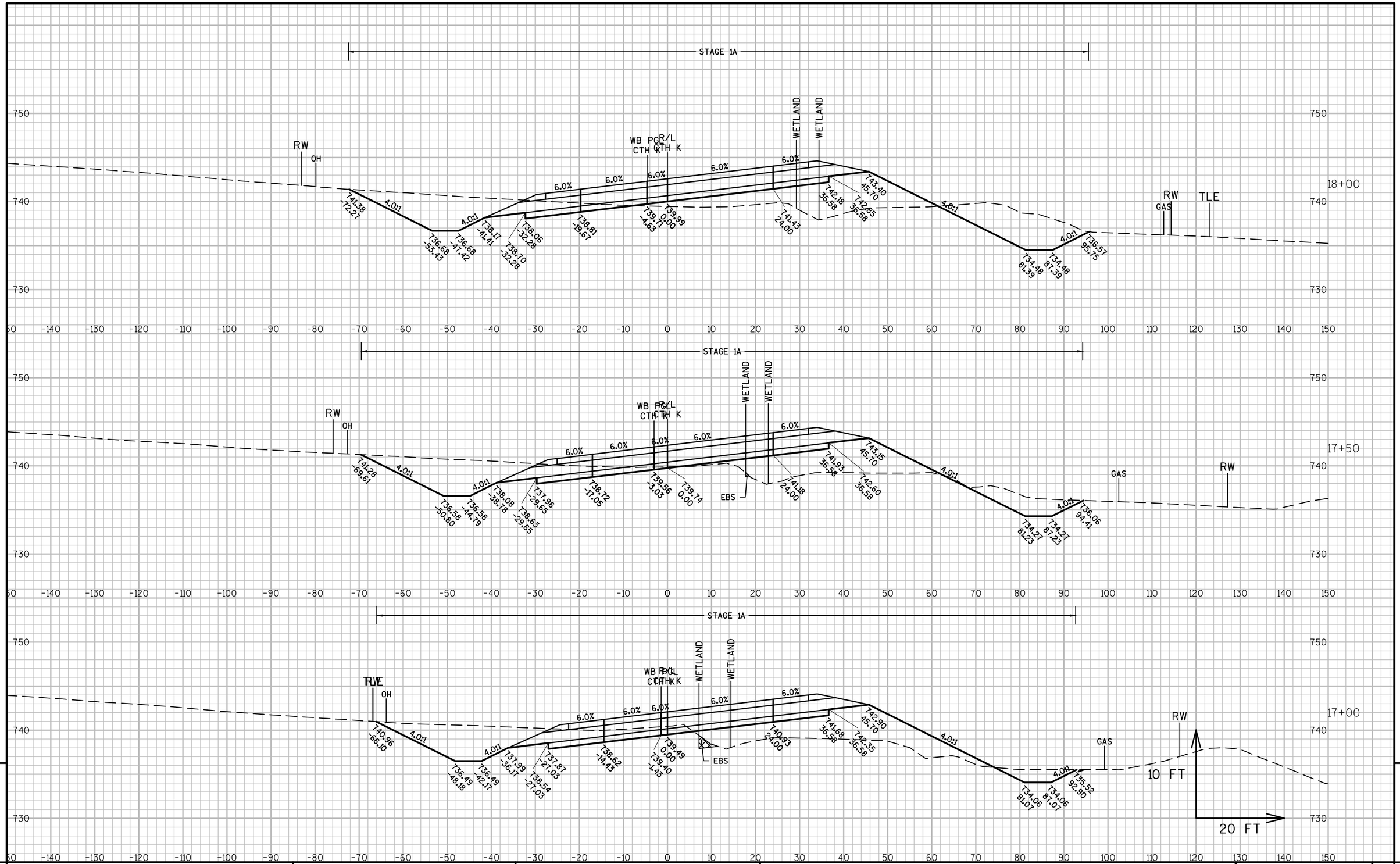
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PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 434	E

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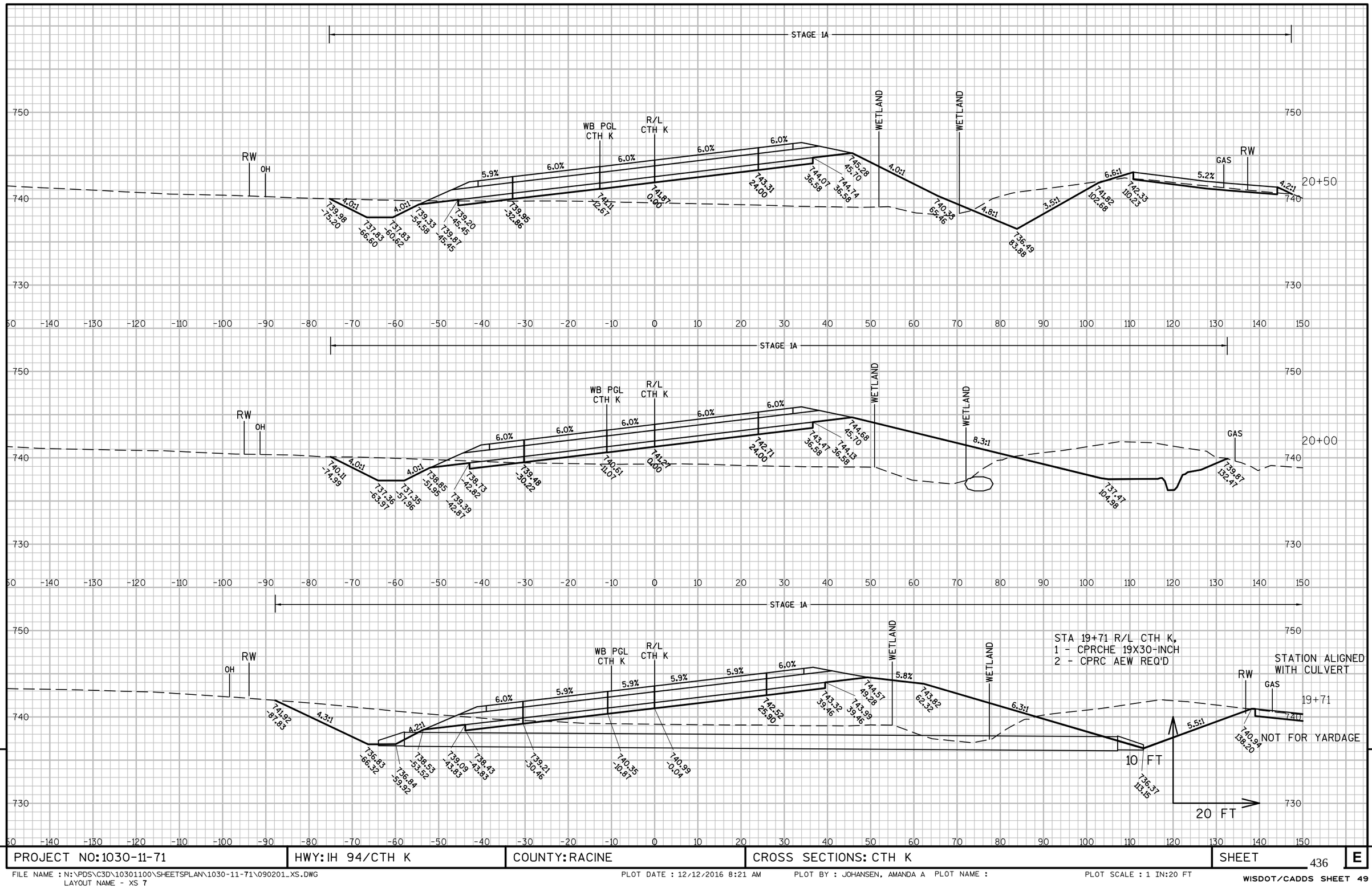
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PLOT SCALE : 1 IN:20 FT

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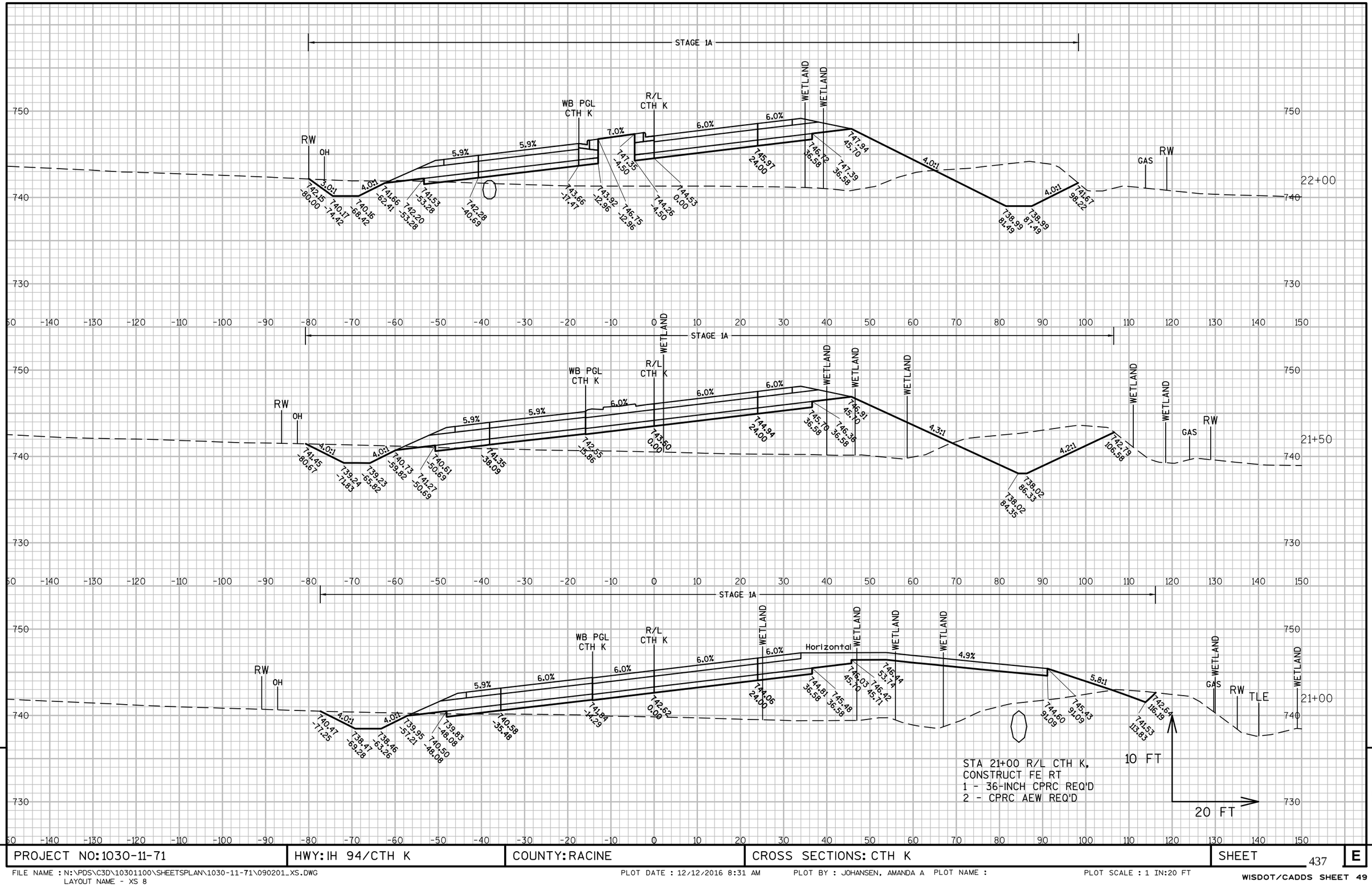
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FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 7

PLOT DATE : 12/12/2016 8:21 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

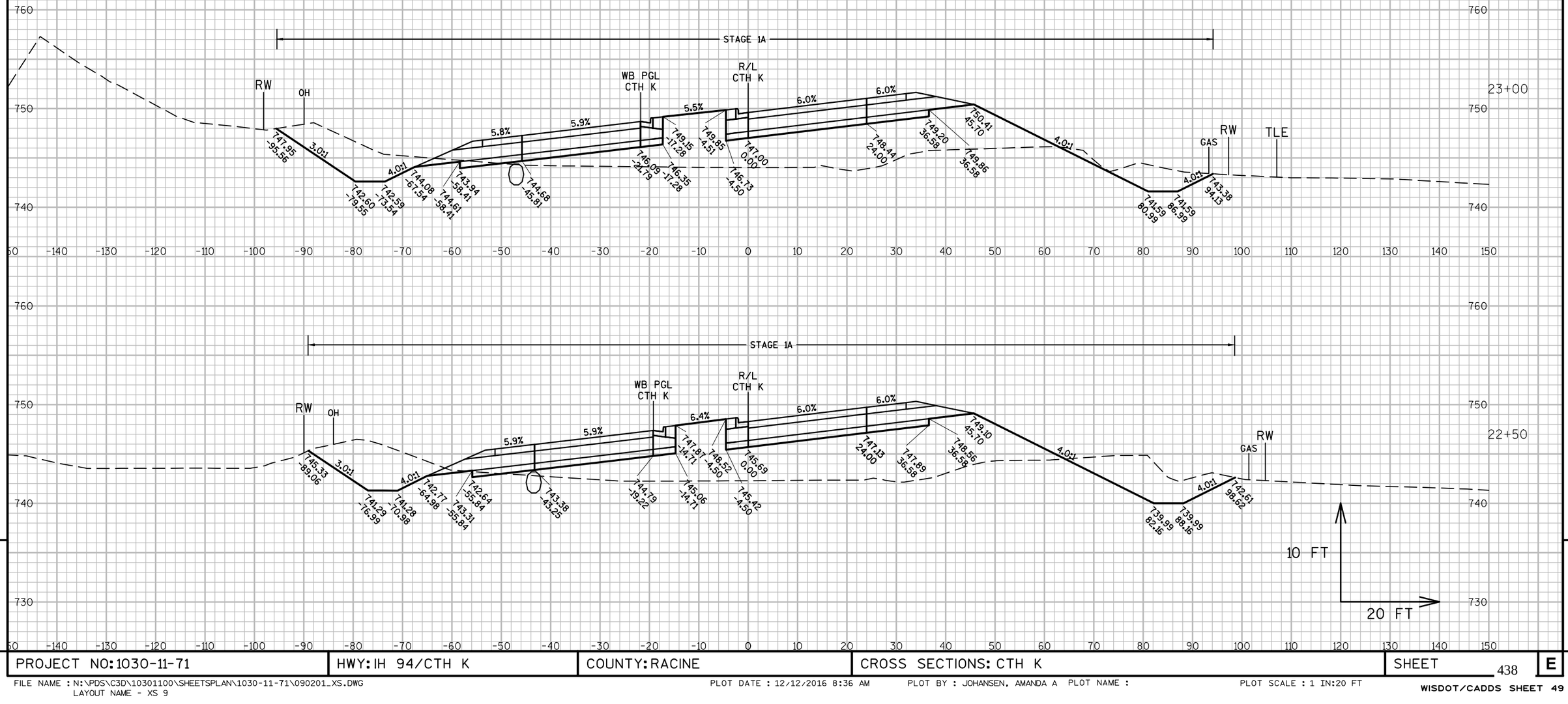


PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 437	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 8

PLOT DATE : 12/12/2016 8:31 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



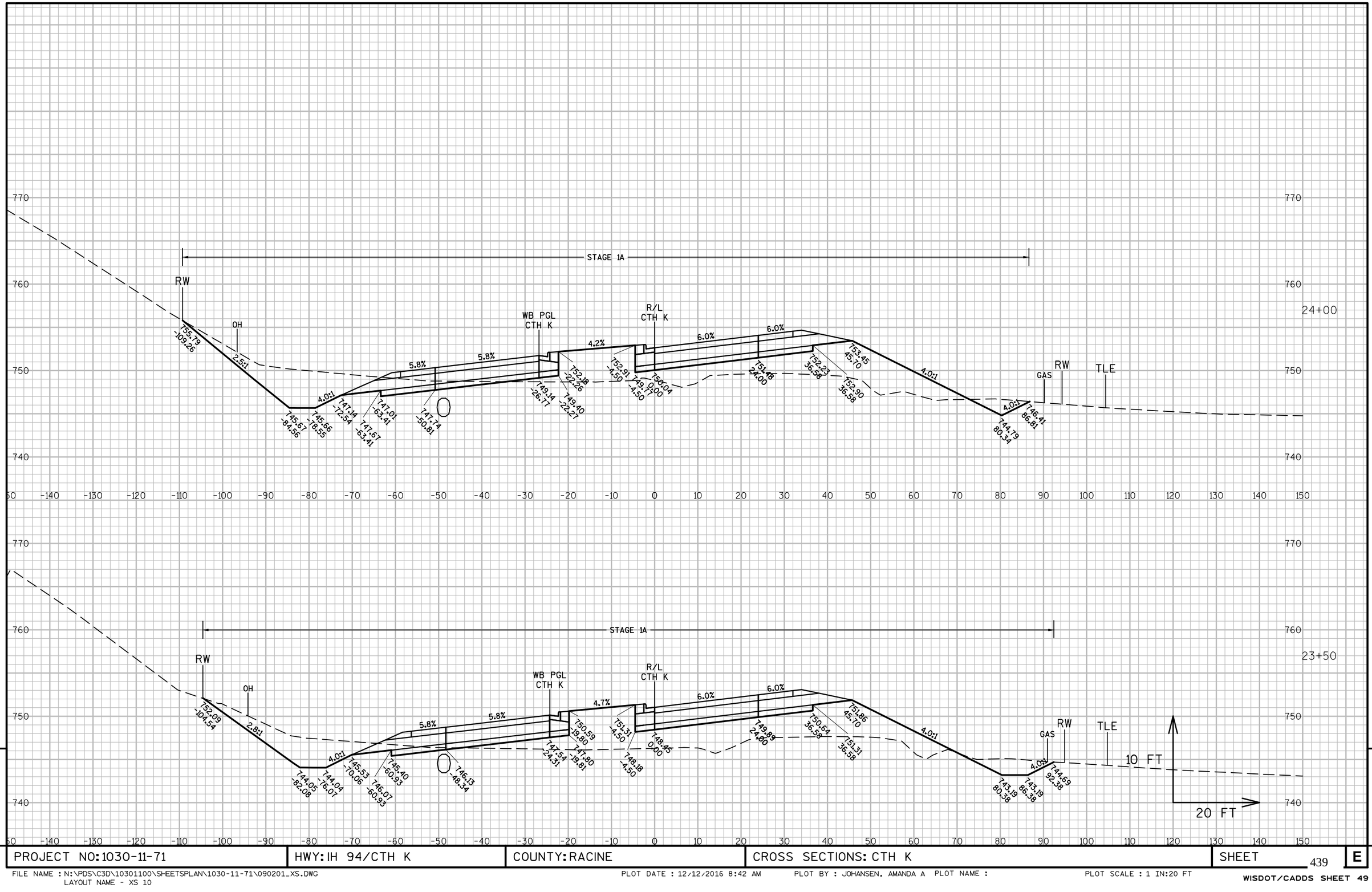
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 438	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 9

PLOT DATE : 12/12/2016 8:36 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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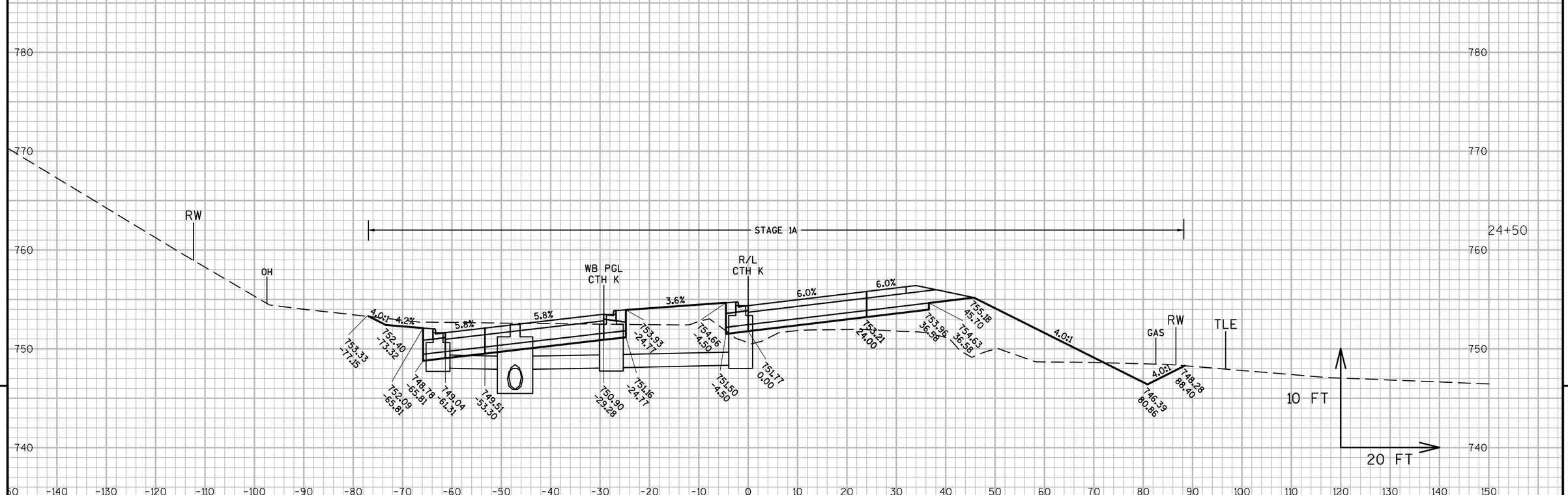
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 439	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 10

PLOT DATE : 12/12/2016 8:42 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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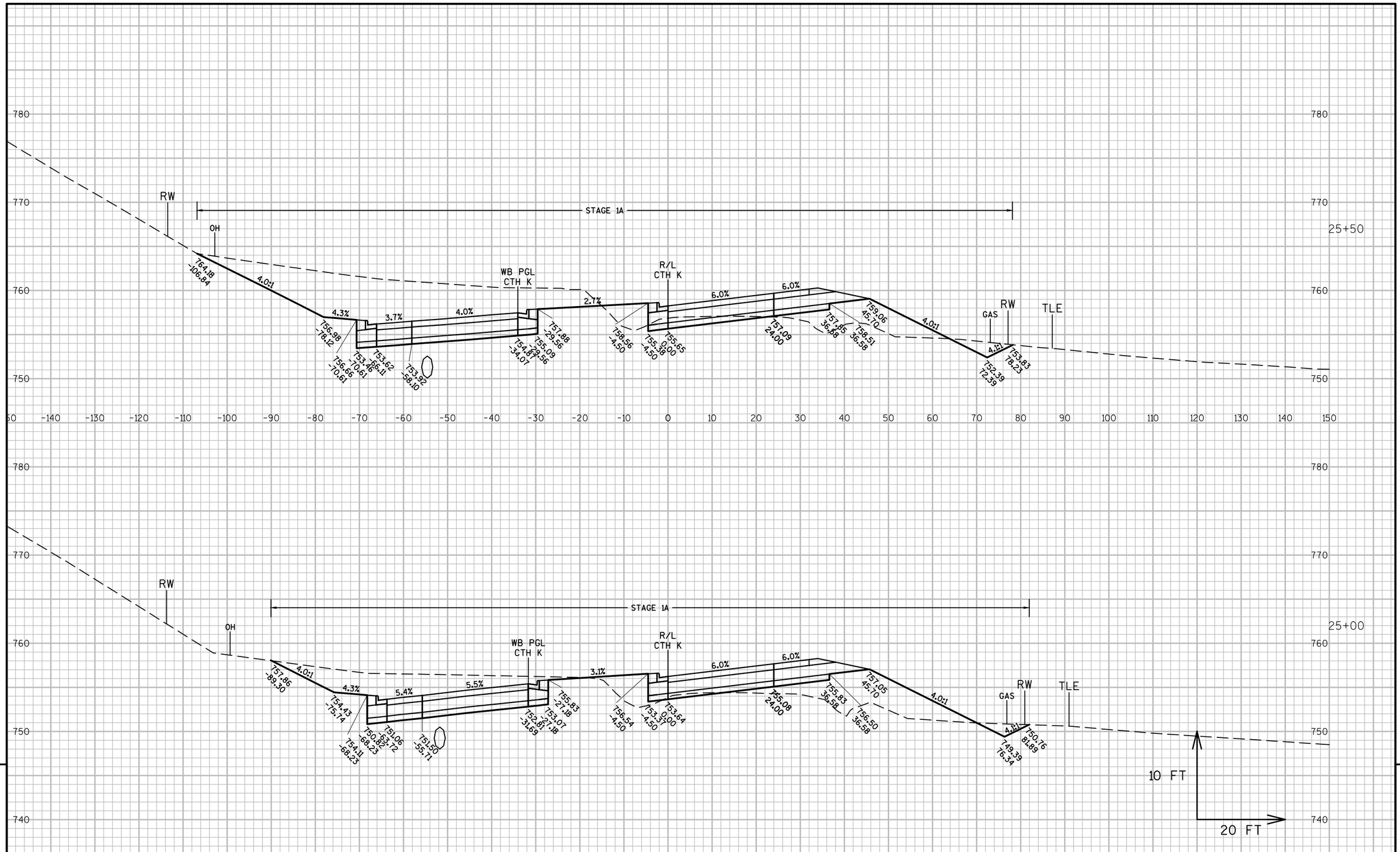
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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 440	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 11

PLOT DATE : 12/12/2016 8:45 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT



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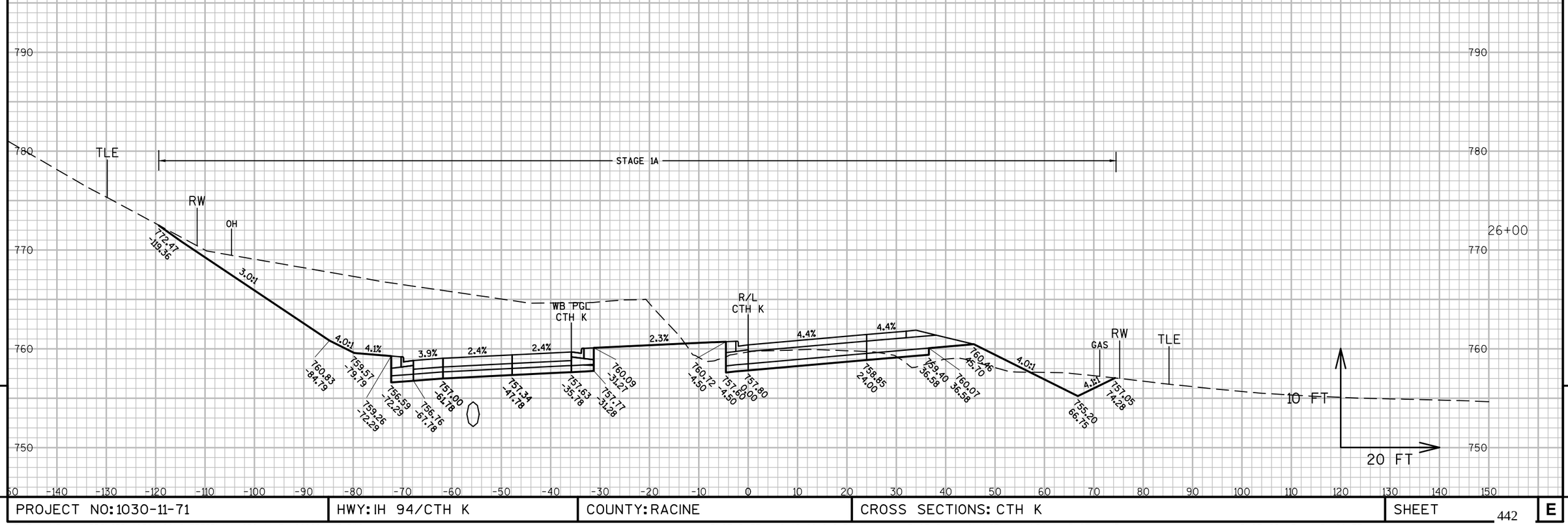
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 441	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 12

PLOT DATE : 12/12/2016 8:48 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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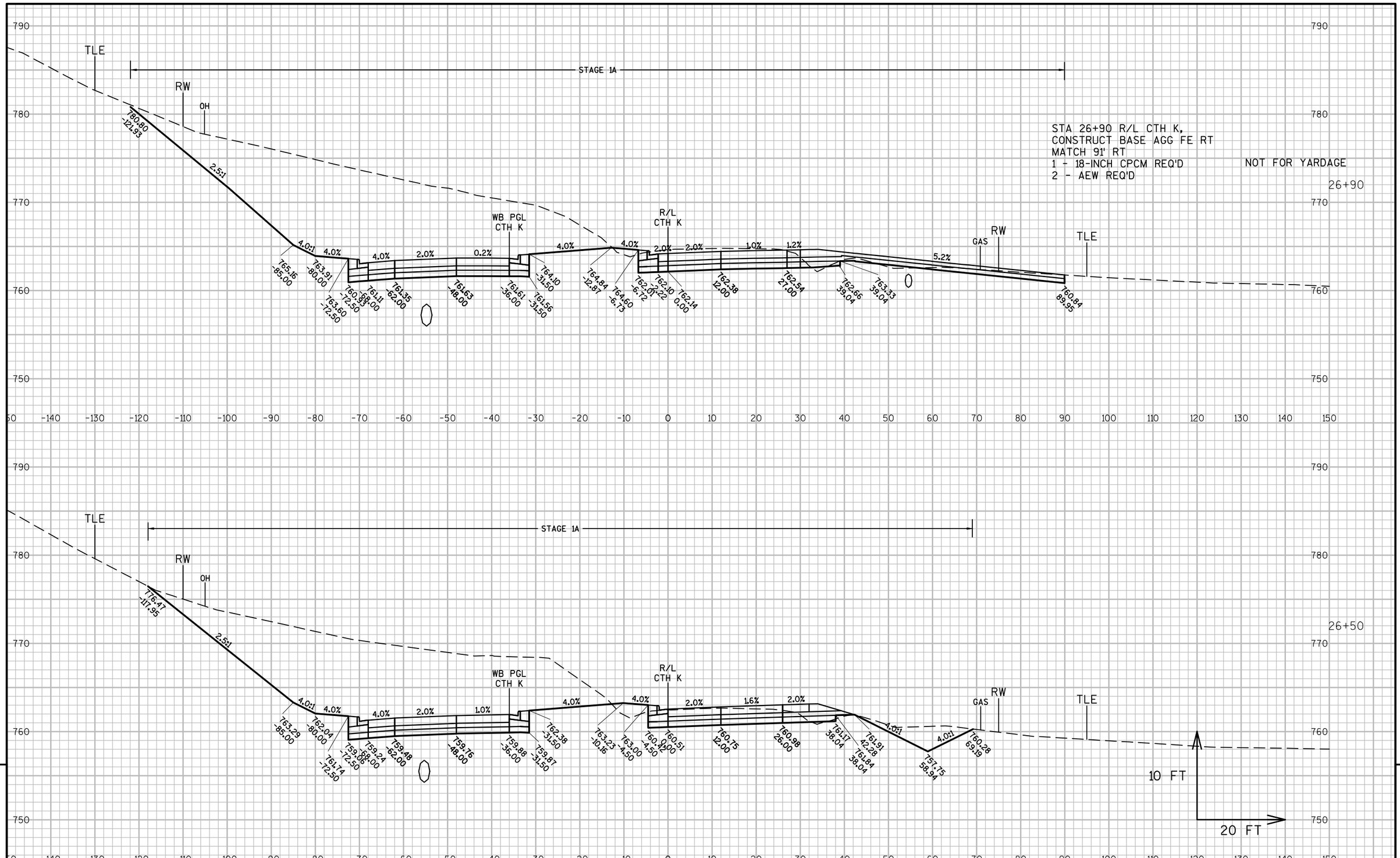
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 442 E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 13

PLOT DATE : 12/12/2016 8:50 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

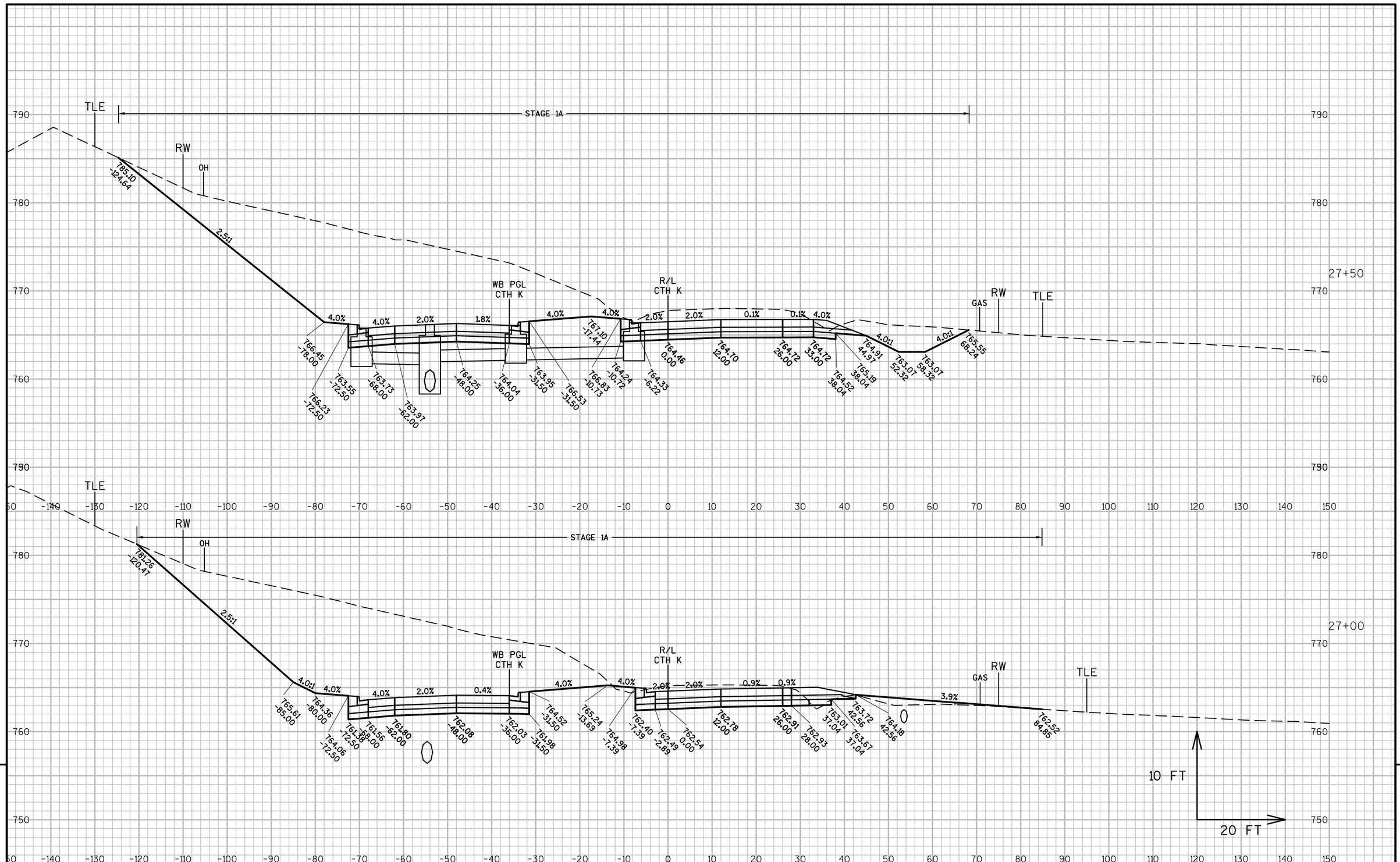


PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 443 E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 14

PLOT DATE : 12/12/2016 8:56 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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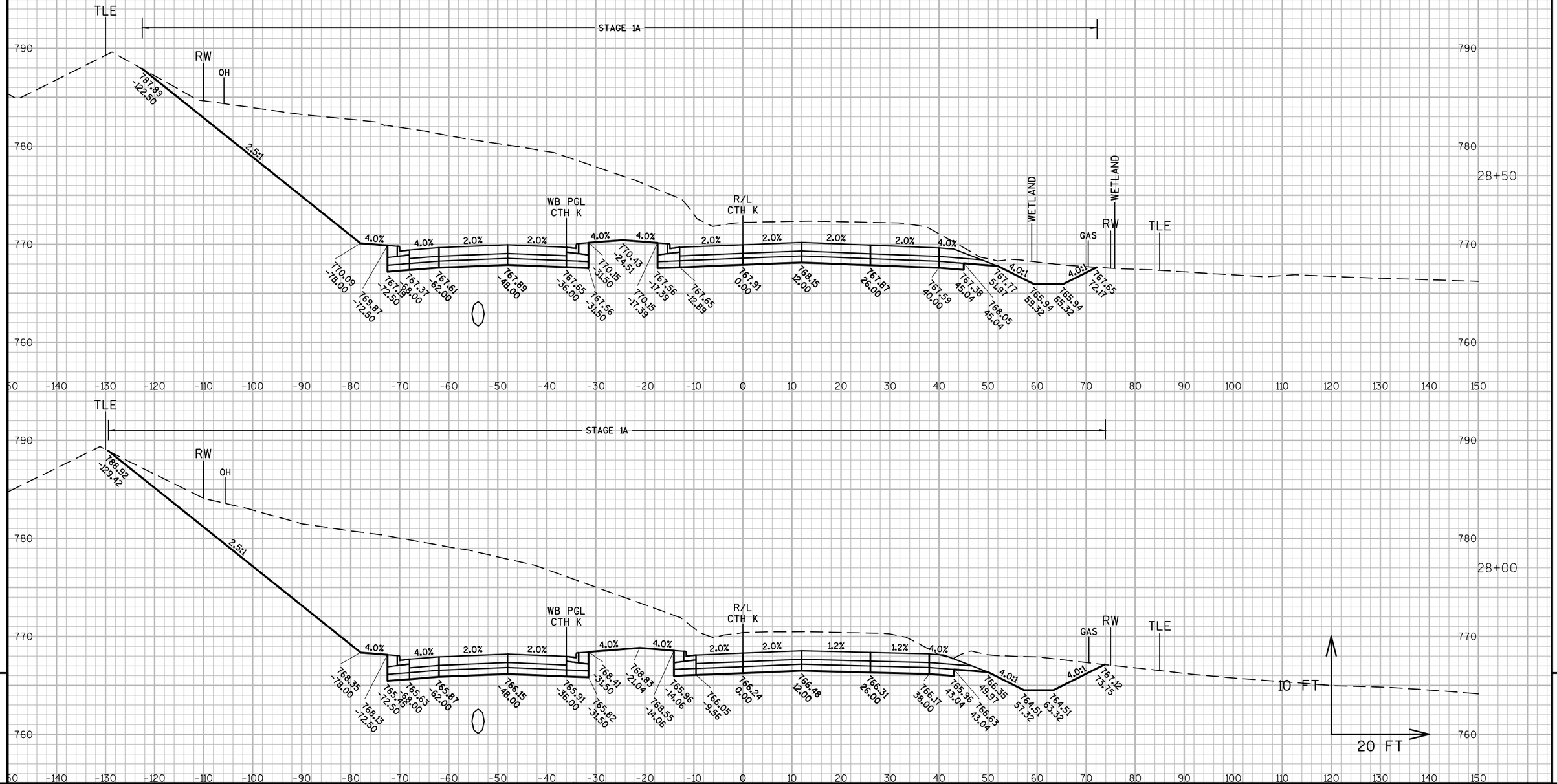
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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 444	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 15

PLOT DATE : 12/12/2016 8:59 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

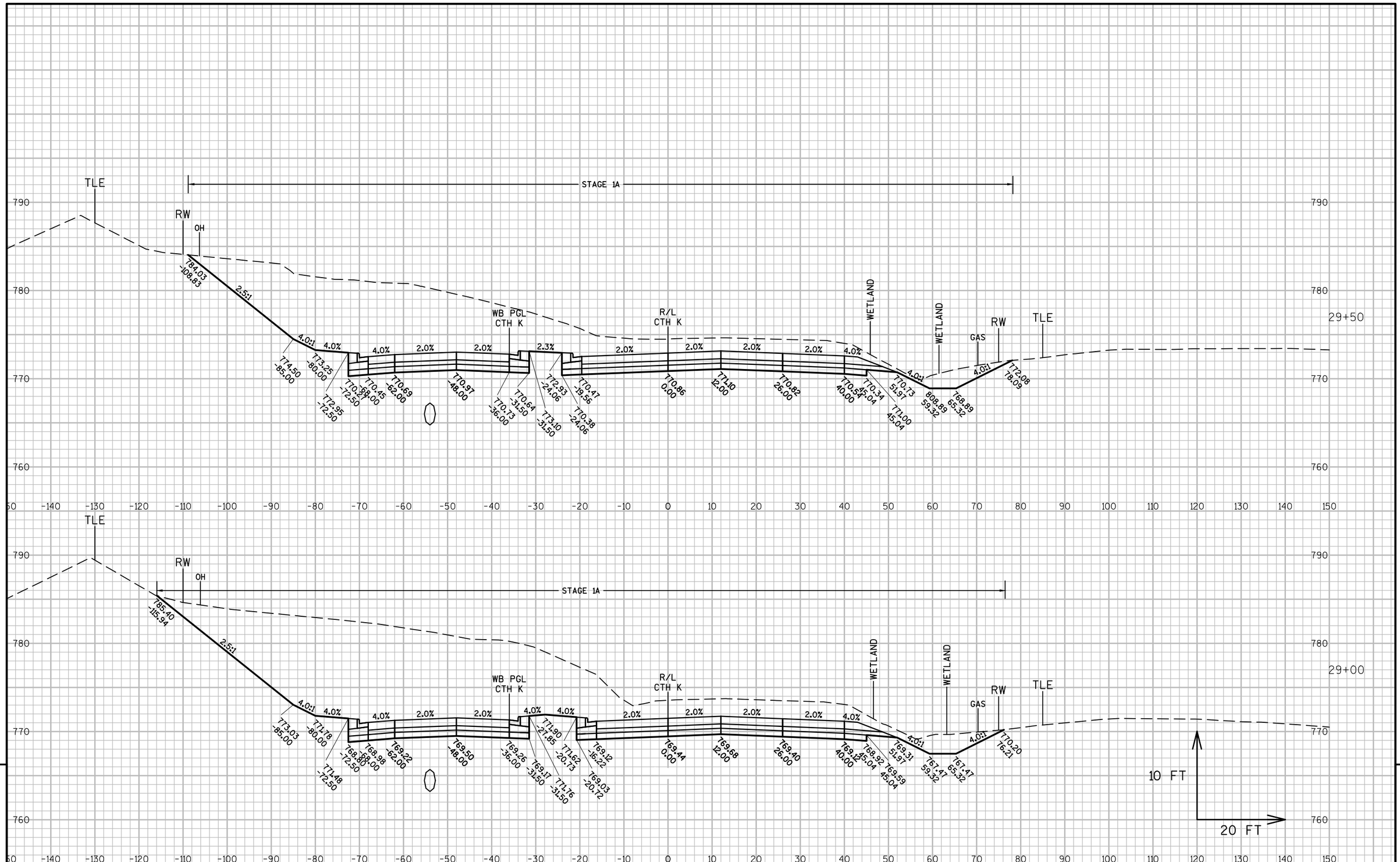
PLOT SCALE : 1 IN:20 FT



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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 445	E



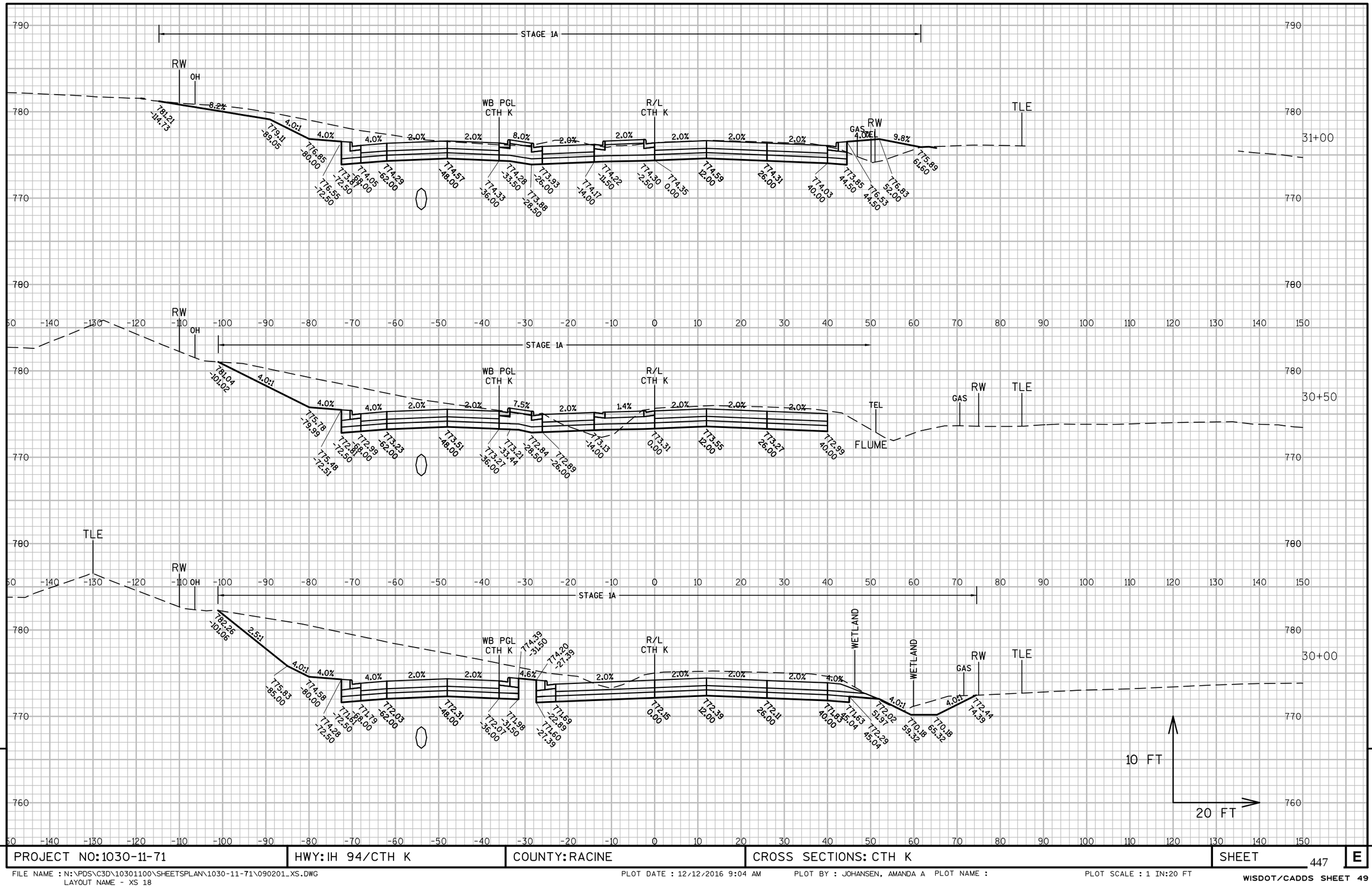
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 446 E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 17

PLOT DATE : 12/12/2016 9:03 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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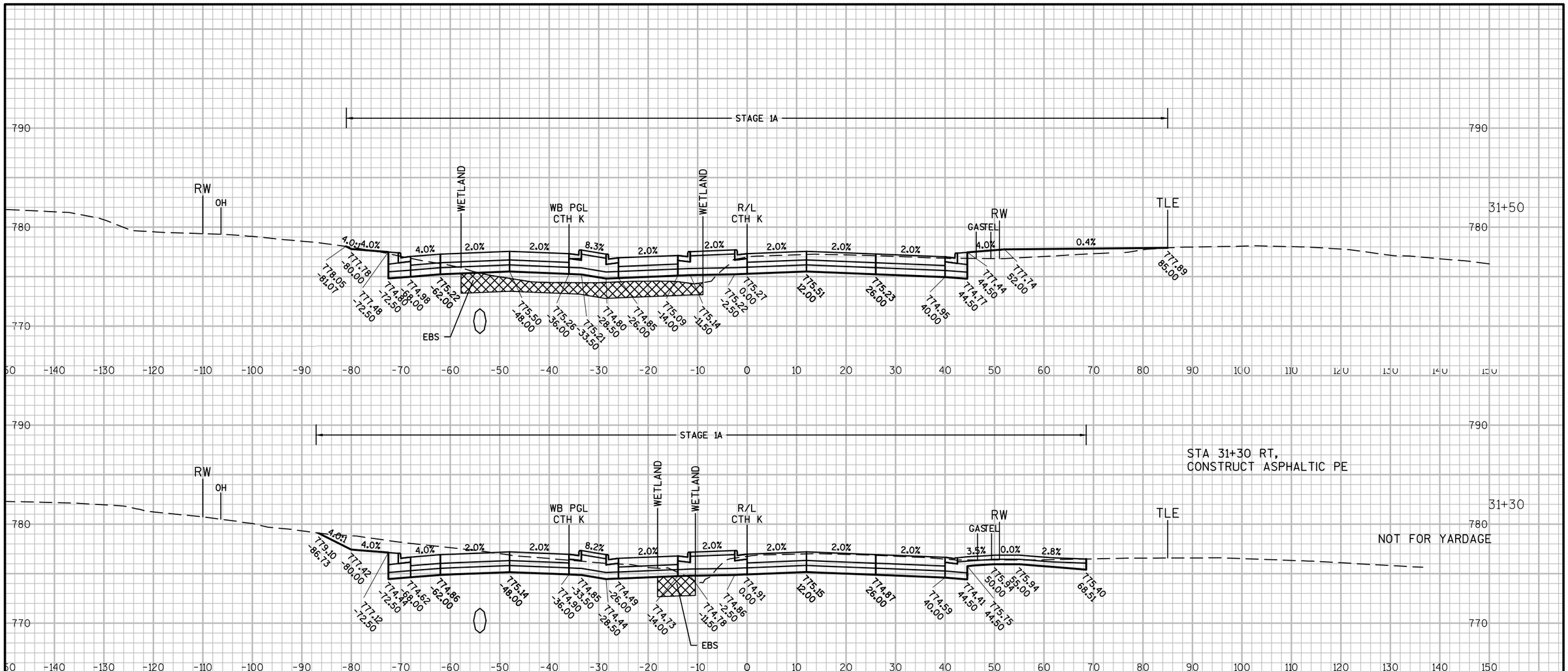
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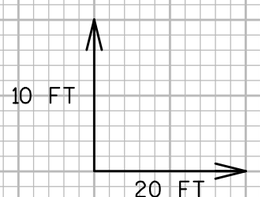
FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 18

PLOT DATE : 12/12/2016 9:04 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49





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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 448	E

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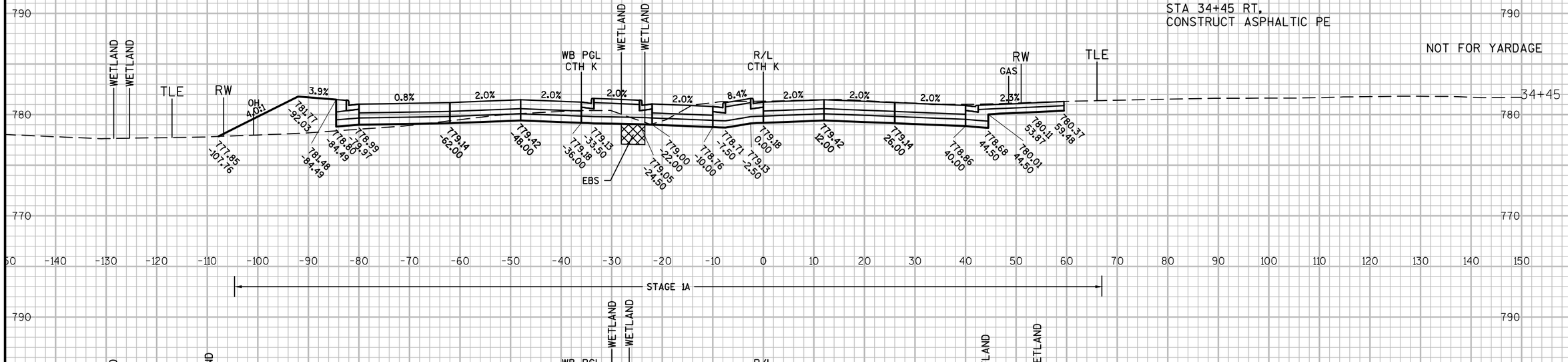
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 449	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 20
PLOT DATE : 11/28/2016 3:21 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

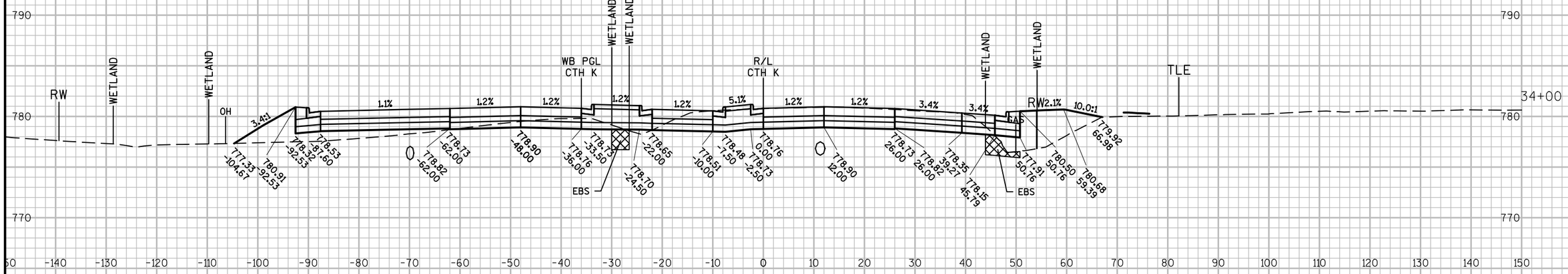
STAGE 1A

STA 34+45 RT,
CONSTRUCT ASPHALTIC PE

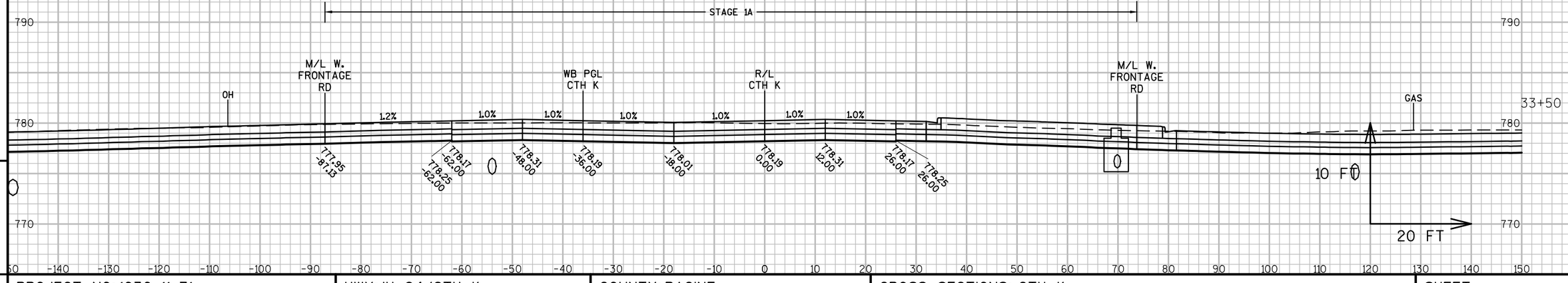
NOT FOR YARDAGE



STAGE 1A



STAGE 1A



9

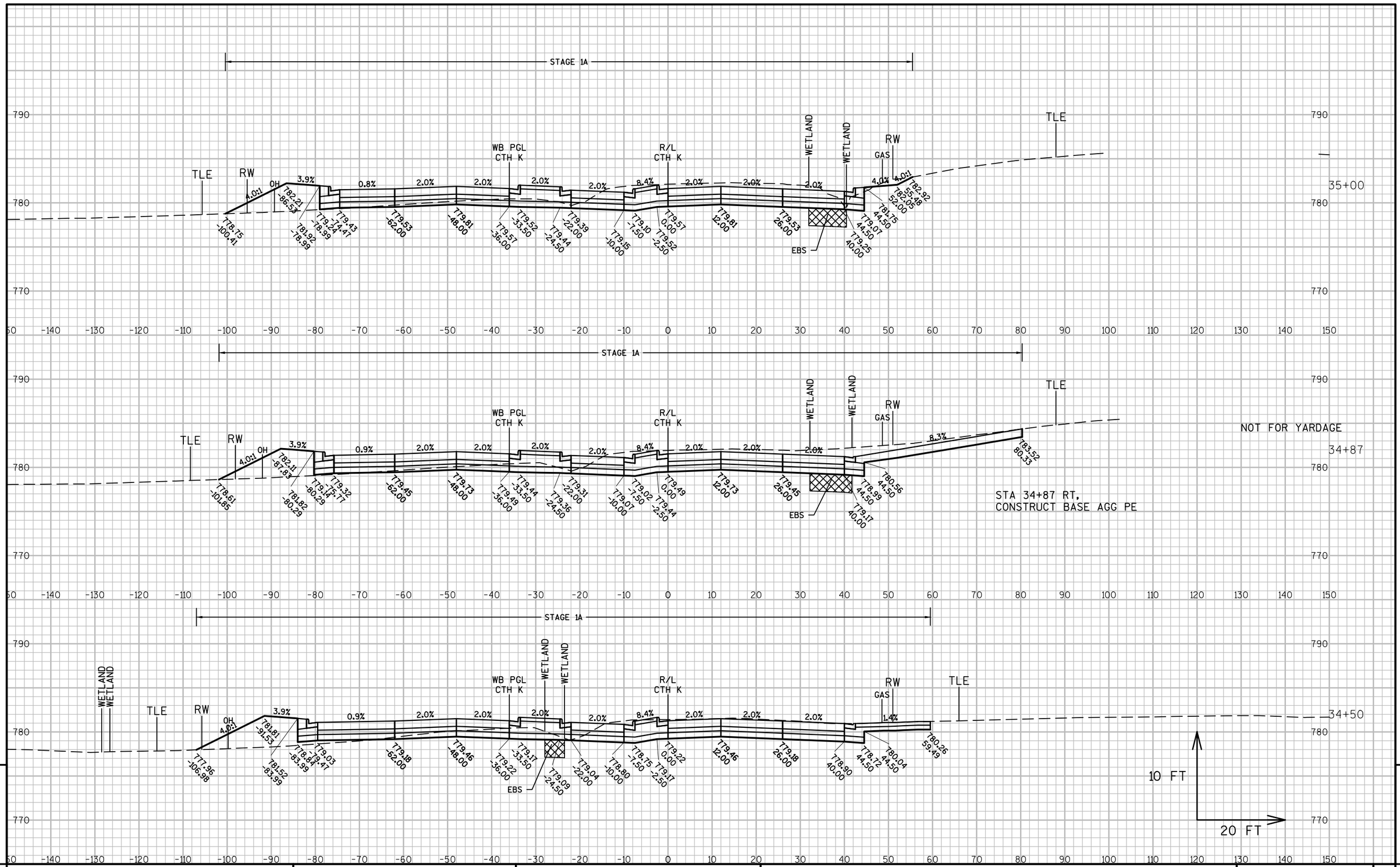
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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 450	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 21

PLOT DATE : 12/5/2016 12:38 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

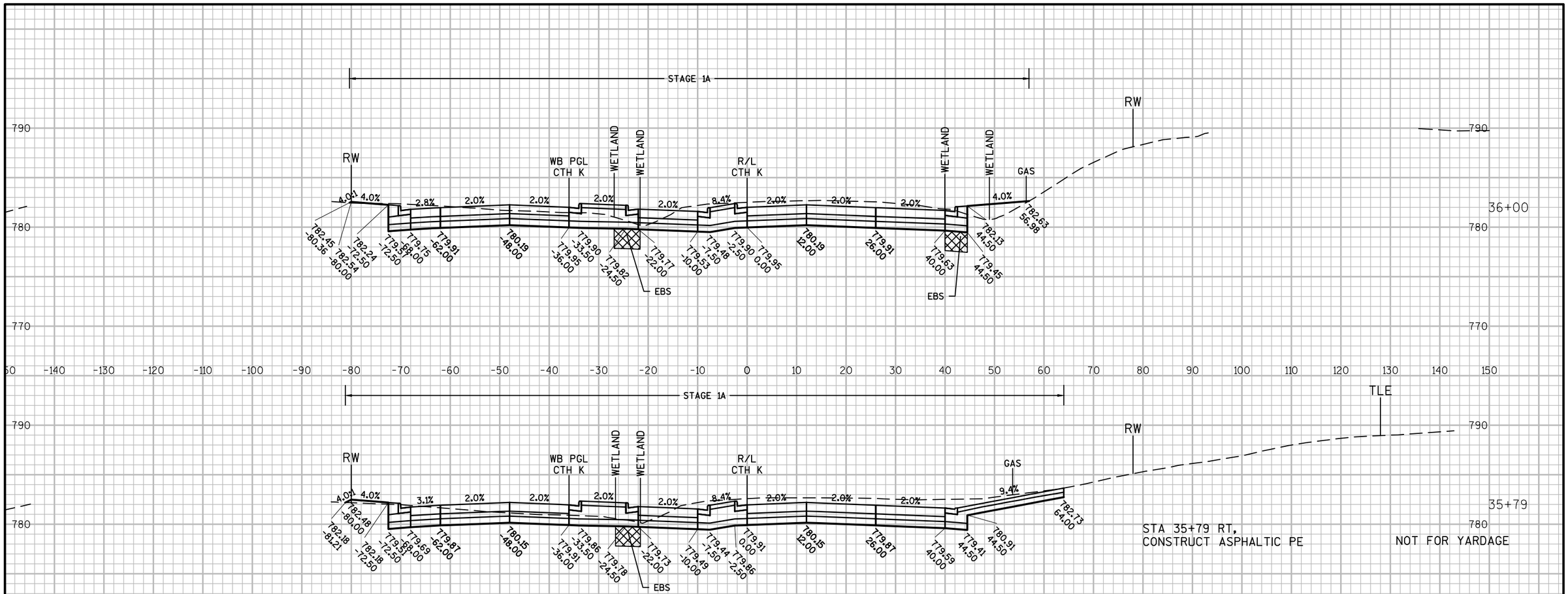


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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 451	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 22
PLOT DATE : 11/28/2016 3:33 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



STA 35+79 RT,
CONSTRUCT ASPHALTIC PE

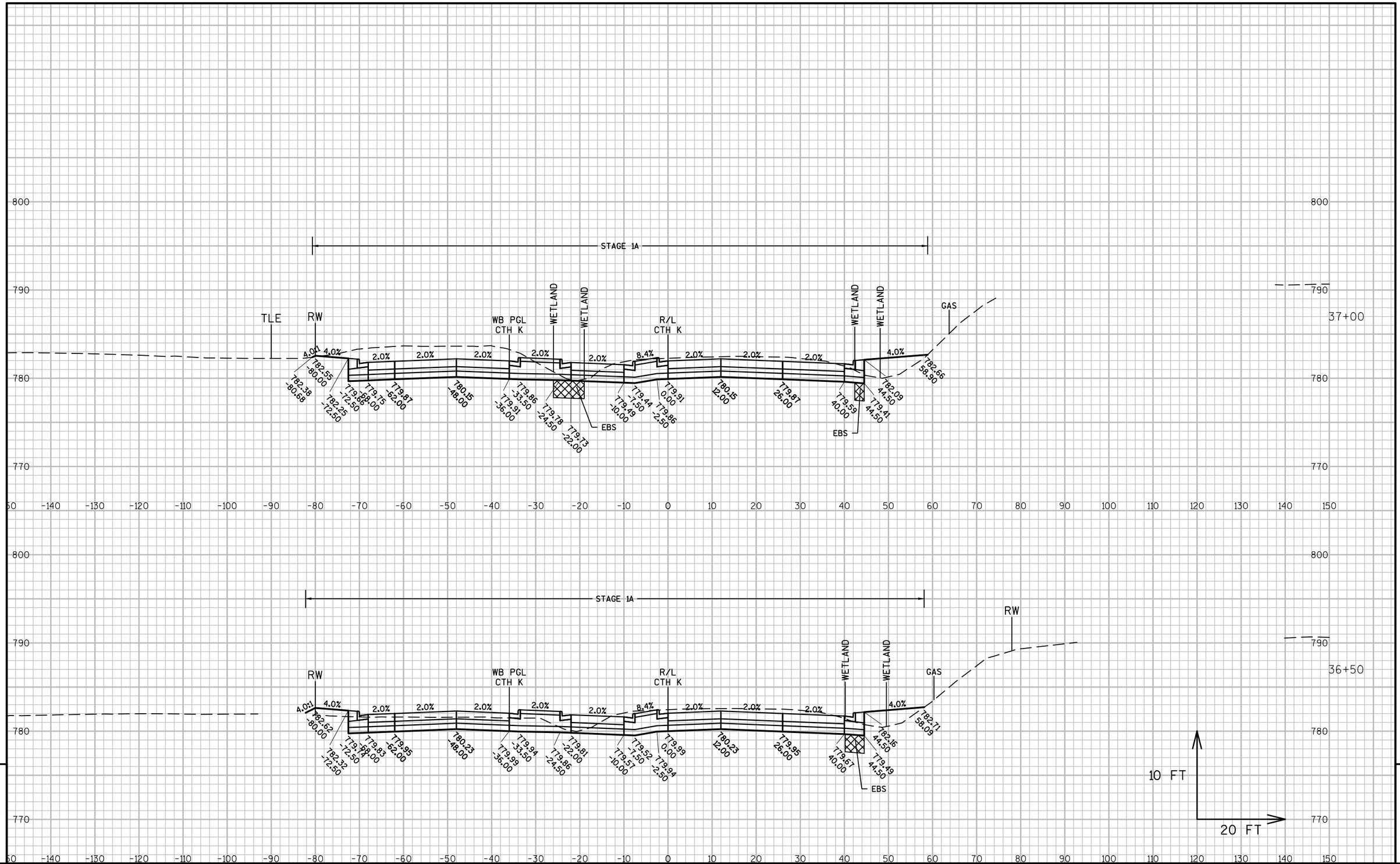
NOT FOR YARDAGE

10 FT
20 FT

9

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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 452	E



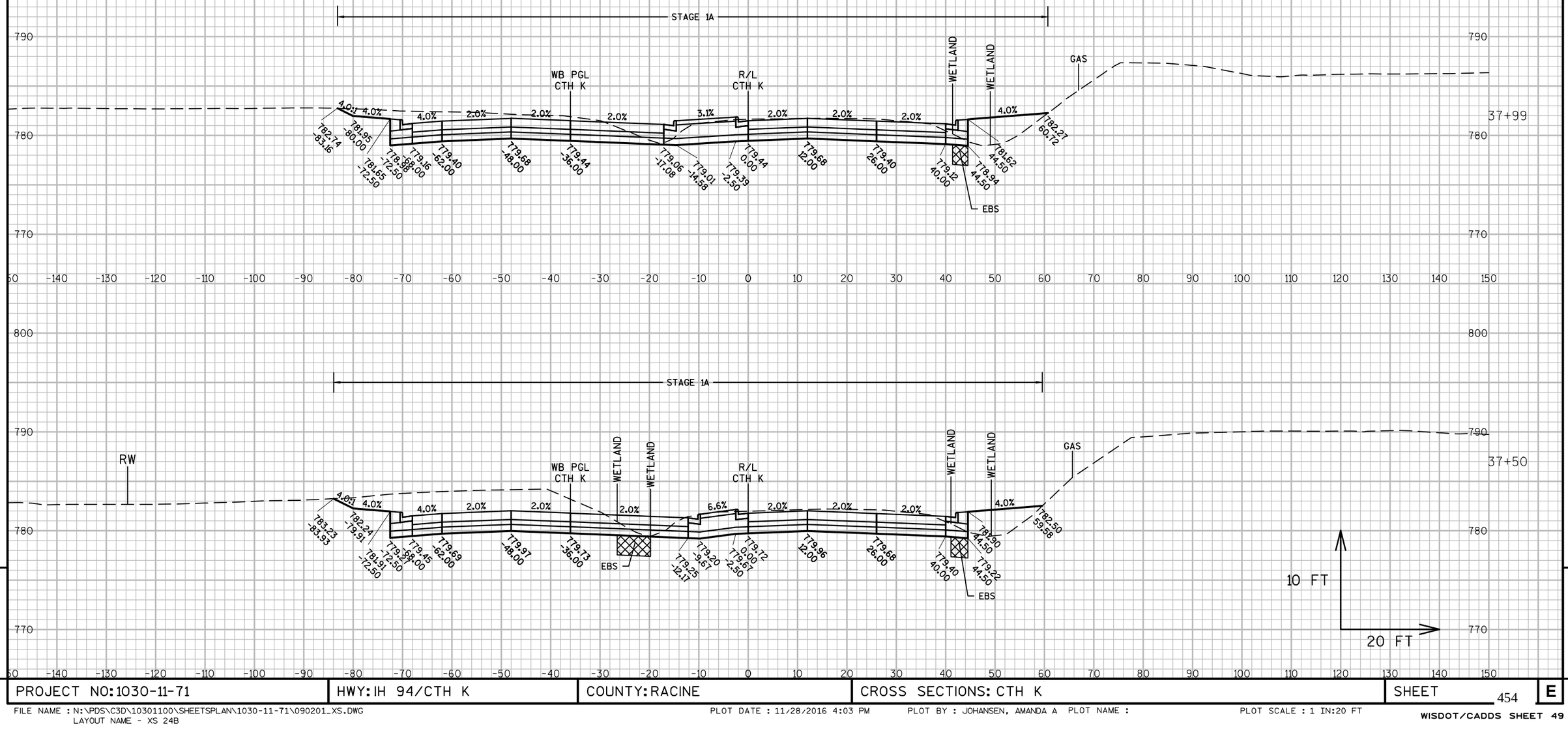
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 453	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 24

PLOT DATE : 11/28/2016 4:00 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

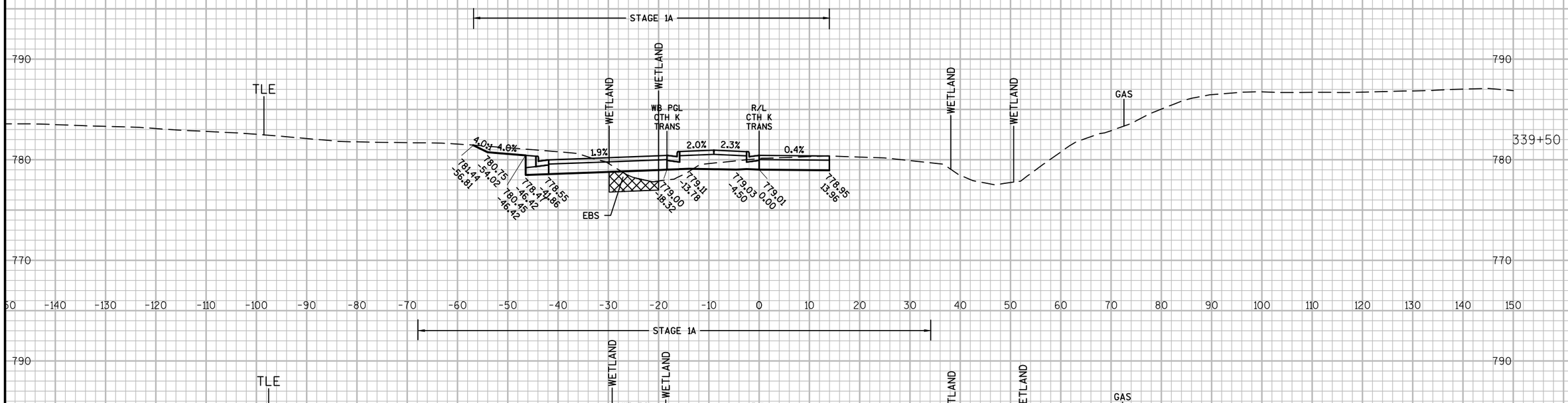


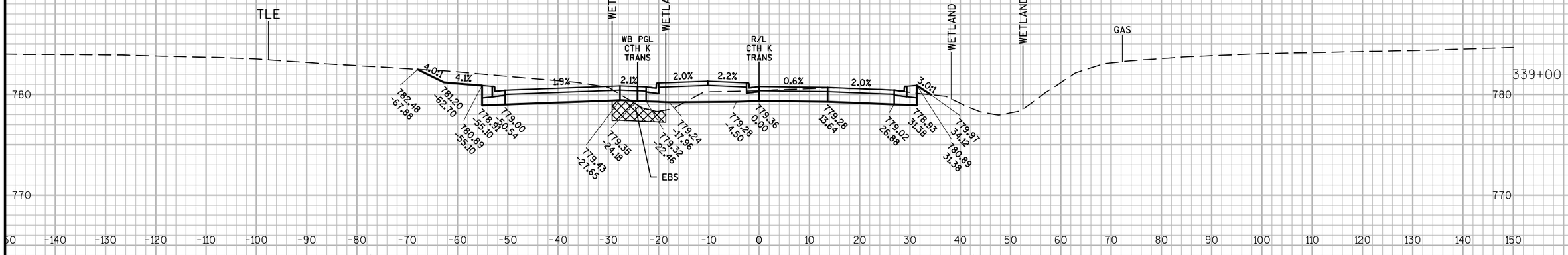
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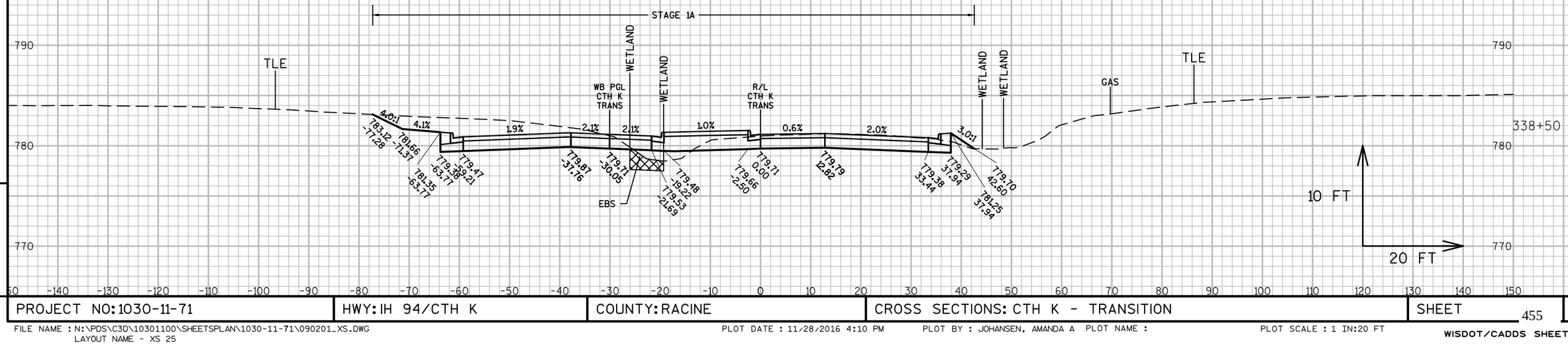
FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 24B

PLOT DATE : 11/28/2016 4:03 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







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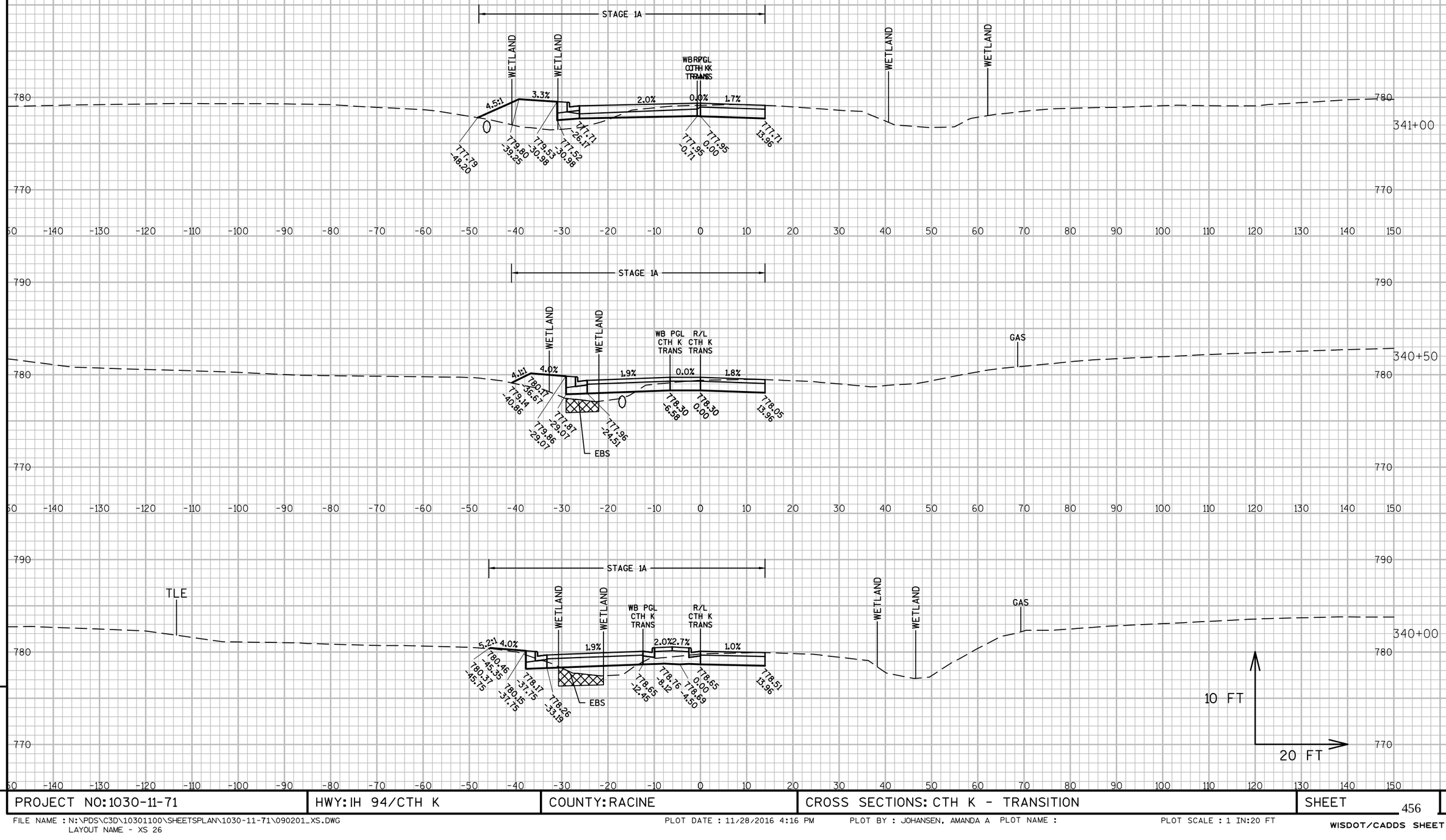
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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K - TRANSITION	SHEET 455	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 25

PLOT DATE : 11/28/2016 4:10 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

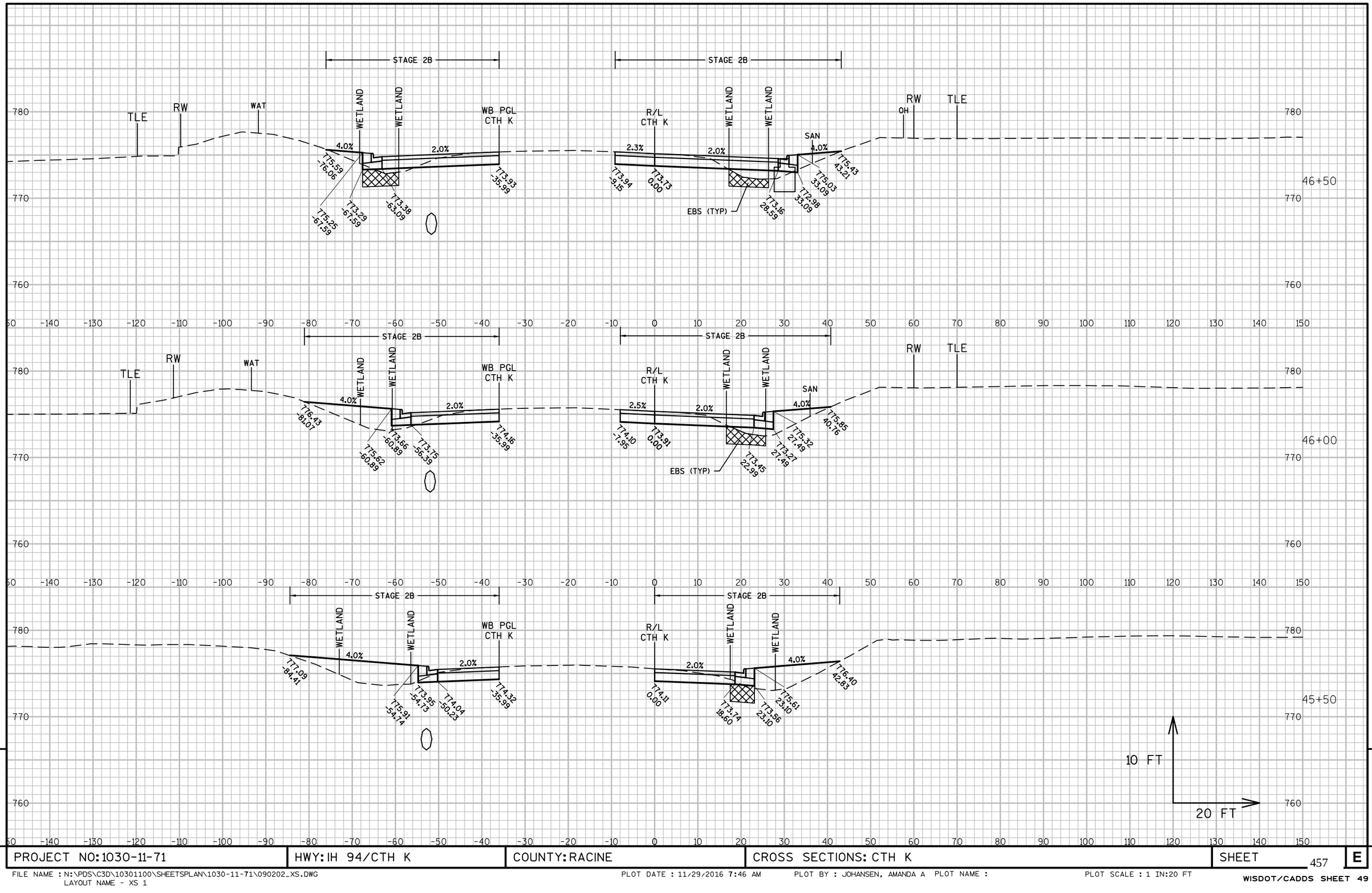


PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K - TRANSITION	SHEET 456	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 26

PLOT DATE : 11/28/2016 4:16 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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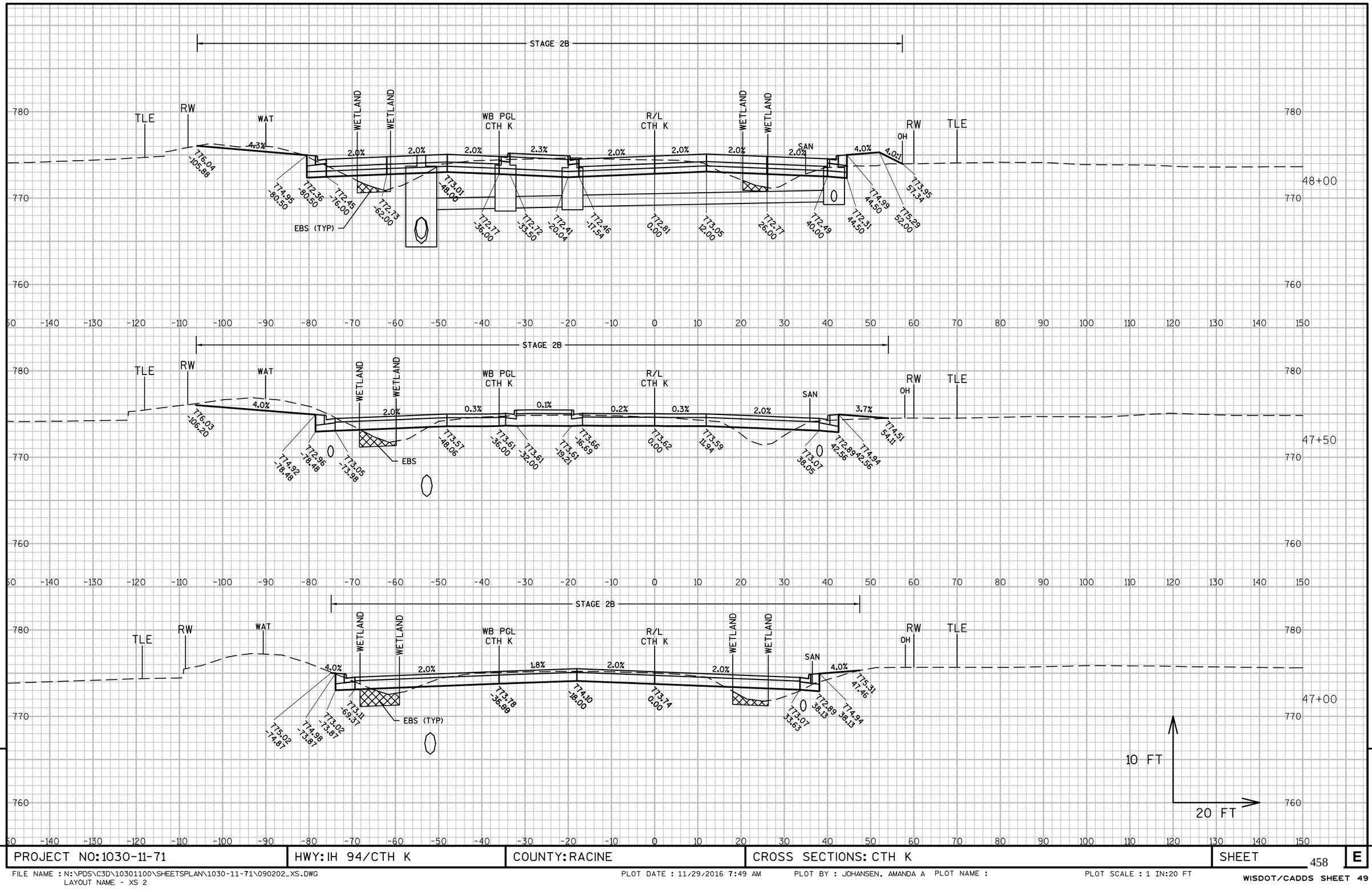
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 457	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 1

PLOT DATE : 11/29/2016 7:46 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 458	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 2

PLOT DATE : 11/29/2016 7:49 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

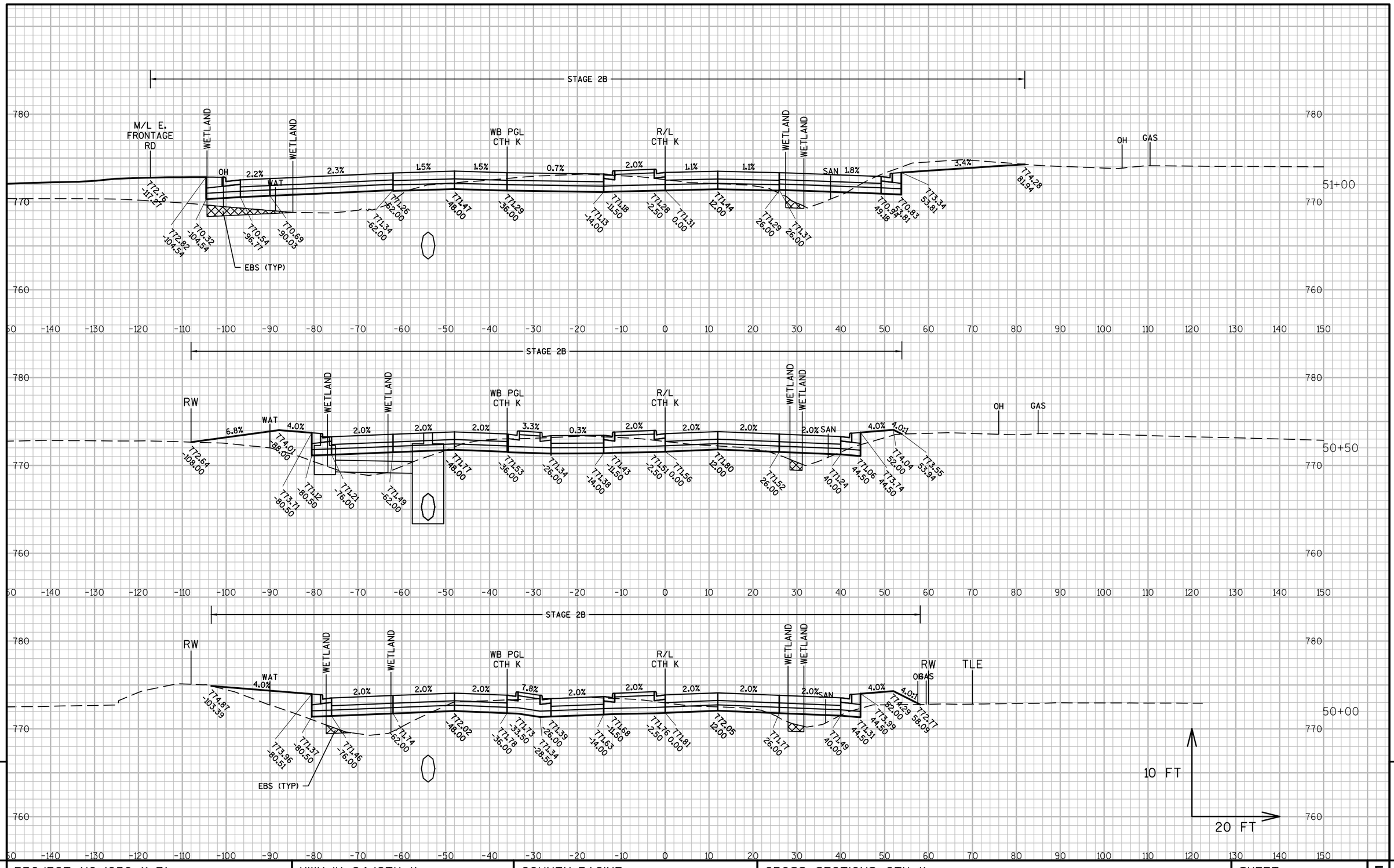
WISDOT/CADDS SHEET 49

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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 459	E

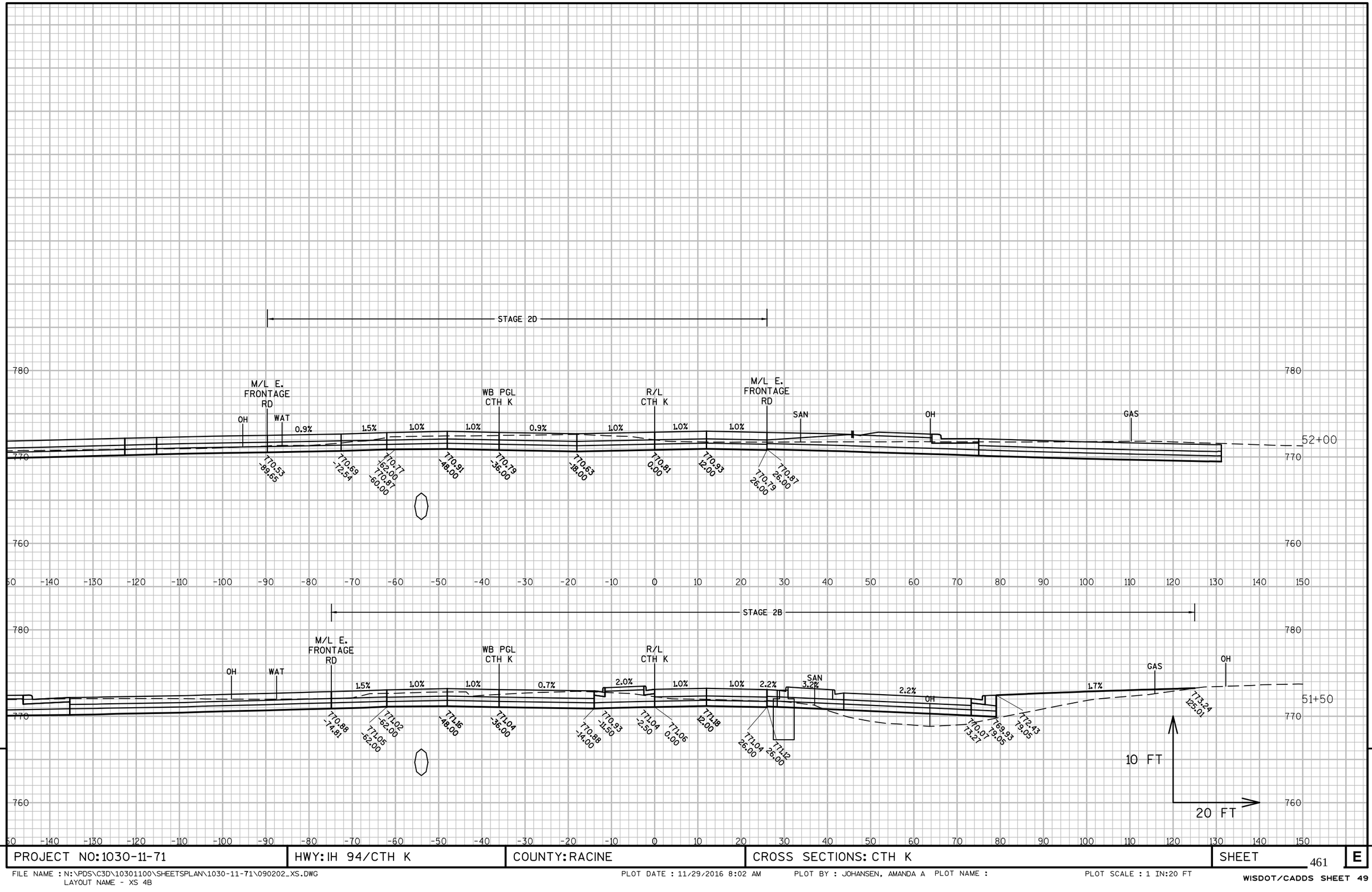
FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 3
PLOT DATE : 11/29/2016 7:53 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :
PLOT SCALE : 1 IN:20 FT



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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 460	E



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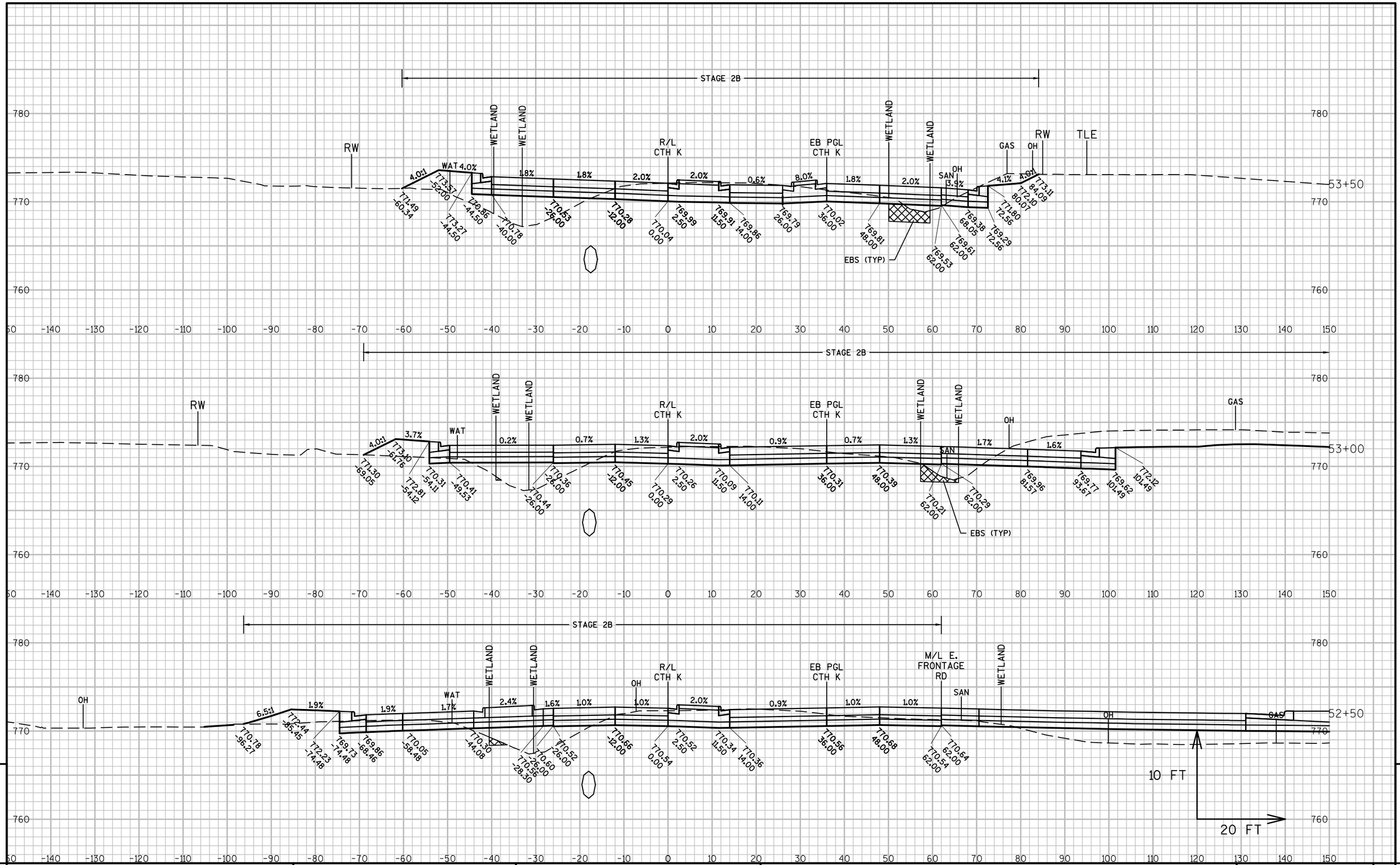
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 461	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 4B

PLOT DATE : 11/29/2016 8:02 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

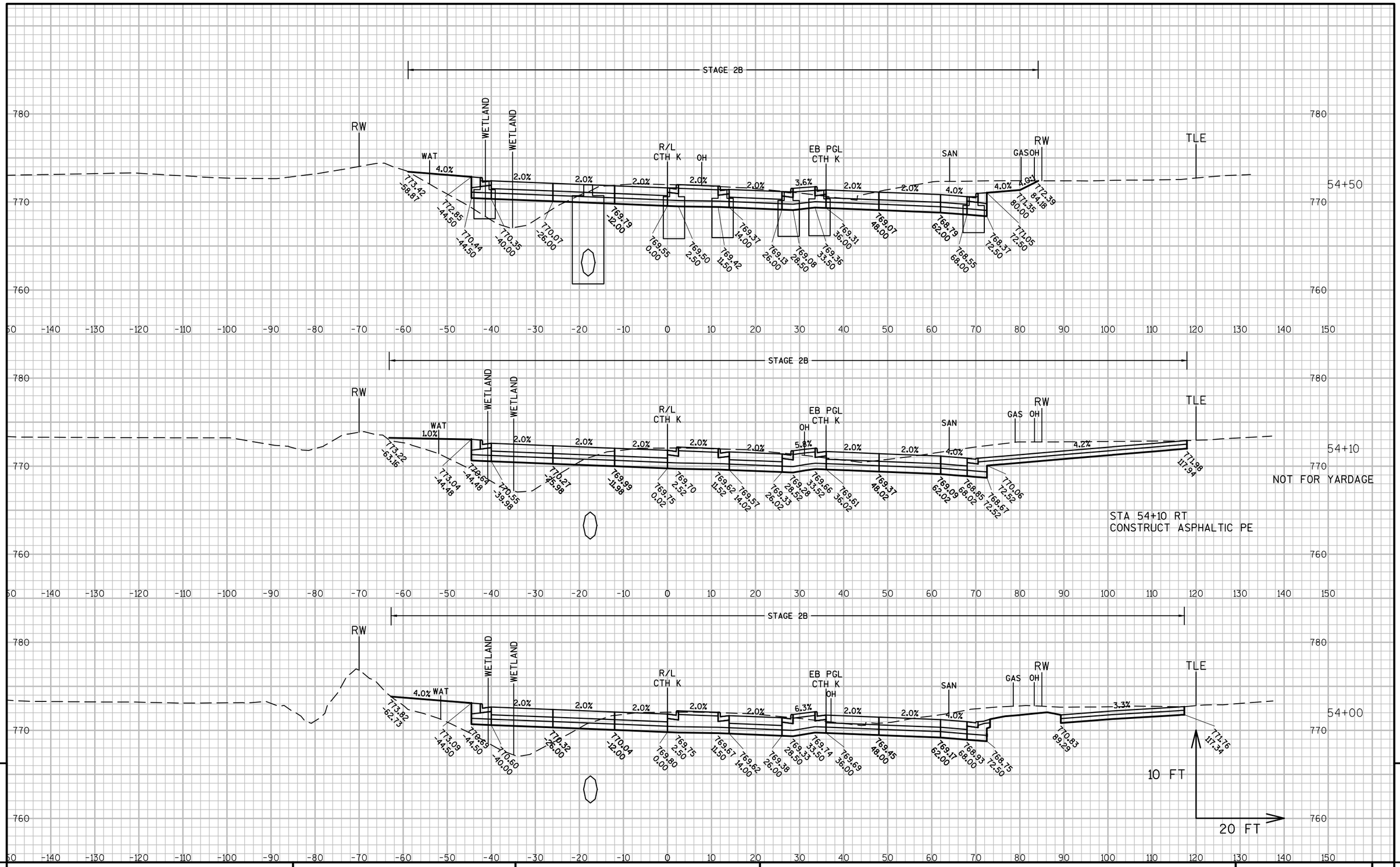


PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 462	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 5

PLOT DATE : 11/29/2016 8:26 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 463	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 6
PLOT DATE : 11/29/2016 8:31 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

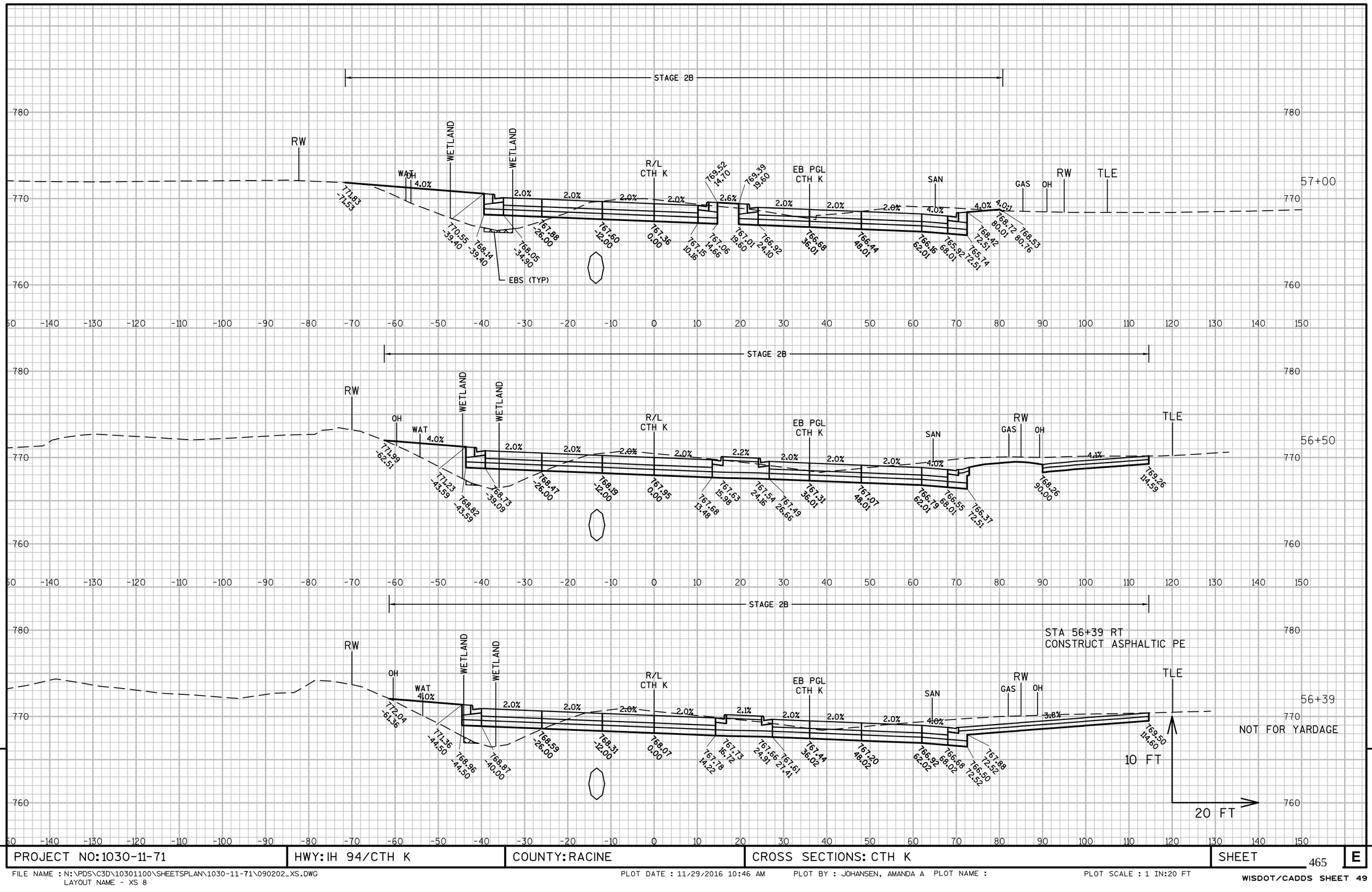
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 464	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 7

PLOT DATE : 11/29/2016 8:41 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 465	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 8

PLOT DATE : 11/29/2016 10:46 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

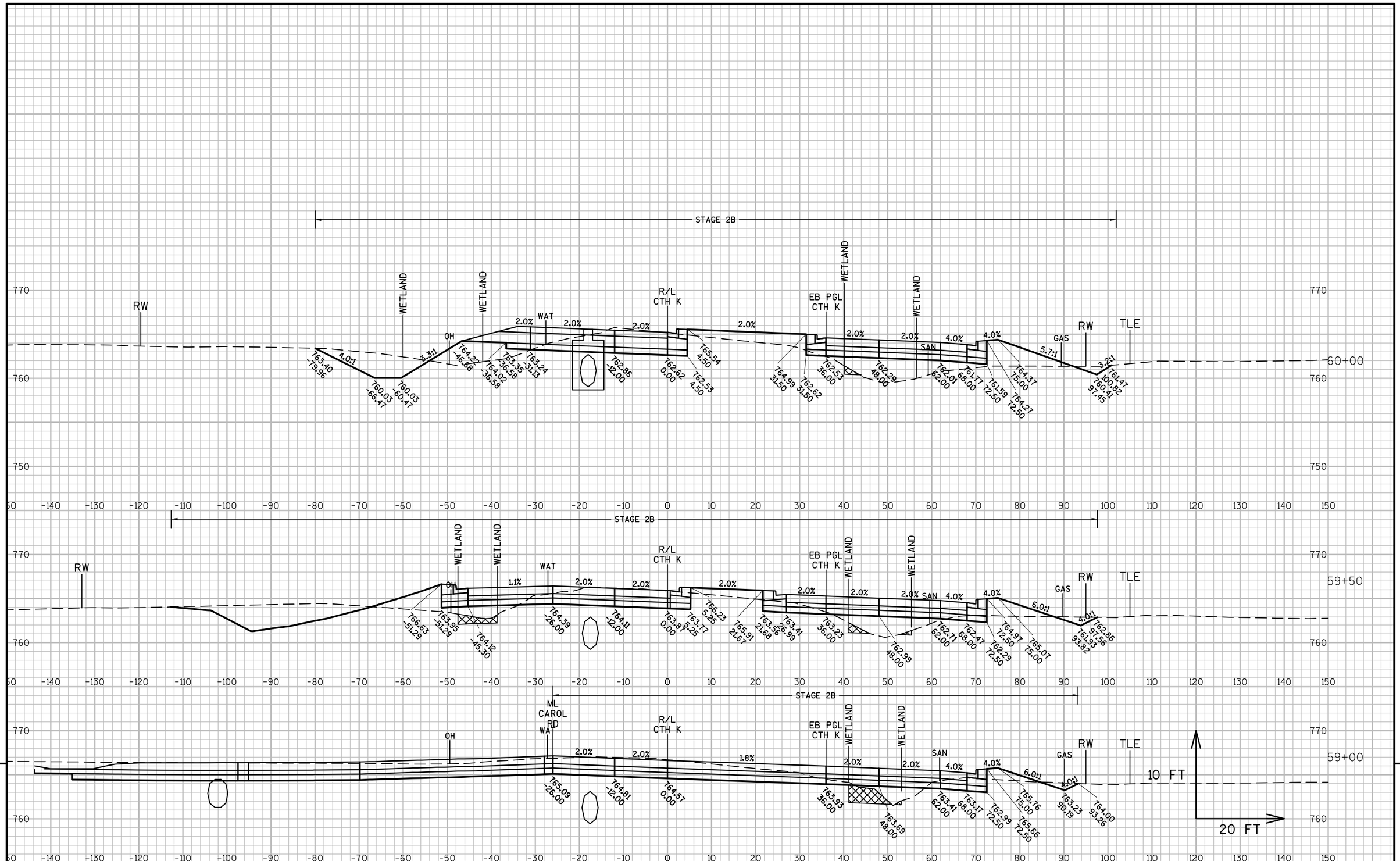
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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 466 E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 9

PLOT DATE : 11/29/2016 11:17 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

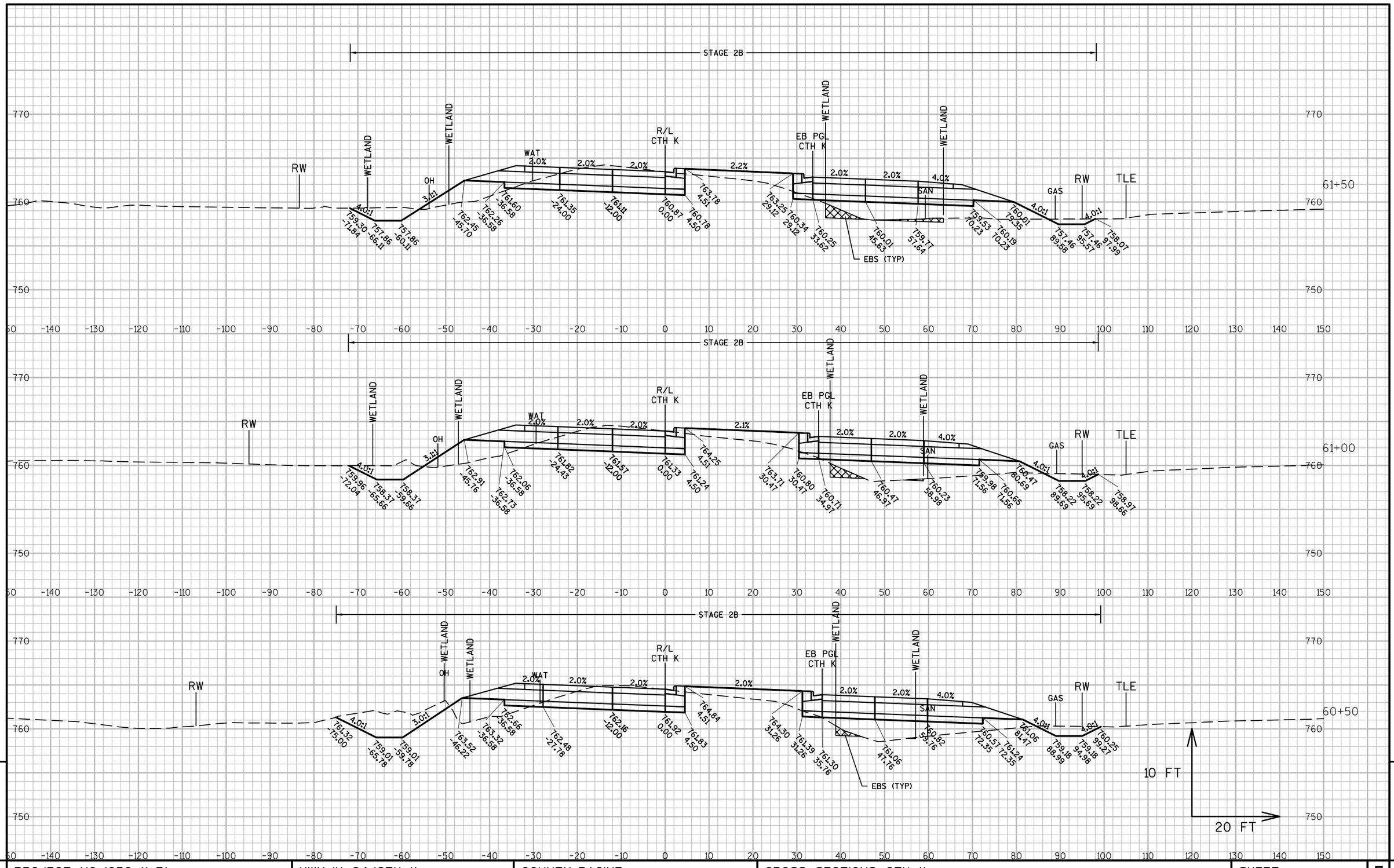


PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 467 E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 10

PLOT DATE : 12/12/2016 3:18 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 468	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 11

PLOT DATE : 12/12/2016 3:30 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT

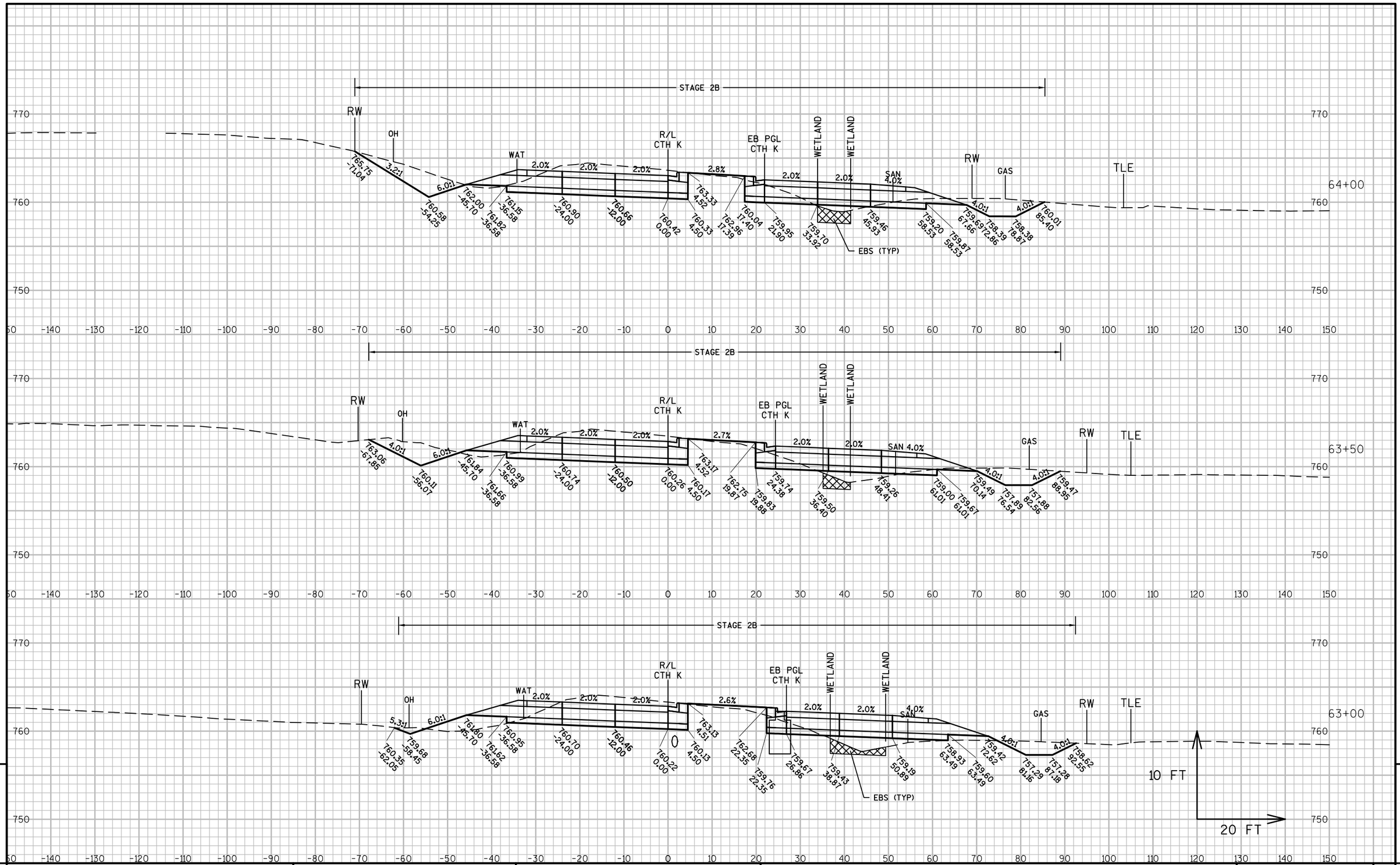
WISDOT/CADDS SHEET 49

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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 469	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 12
PLOT DATE : 12/12/2016 3:48 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :
PLOT SCALE : 1 IN:20 FT

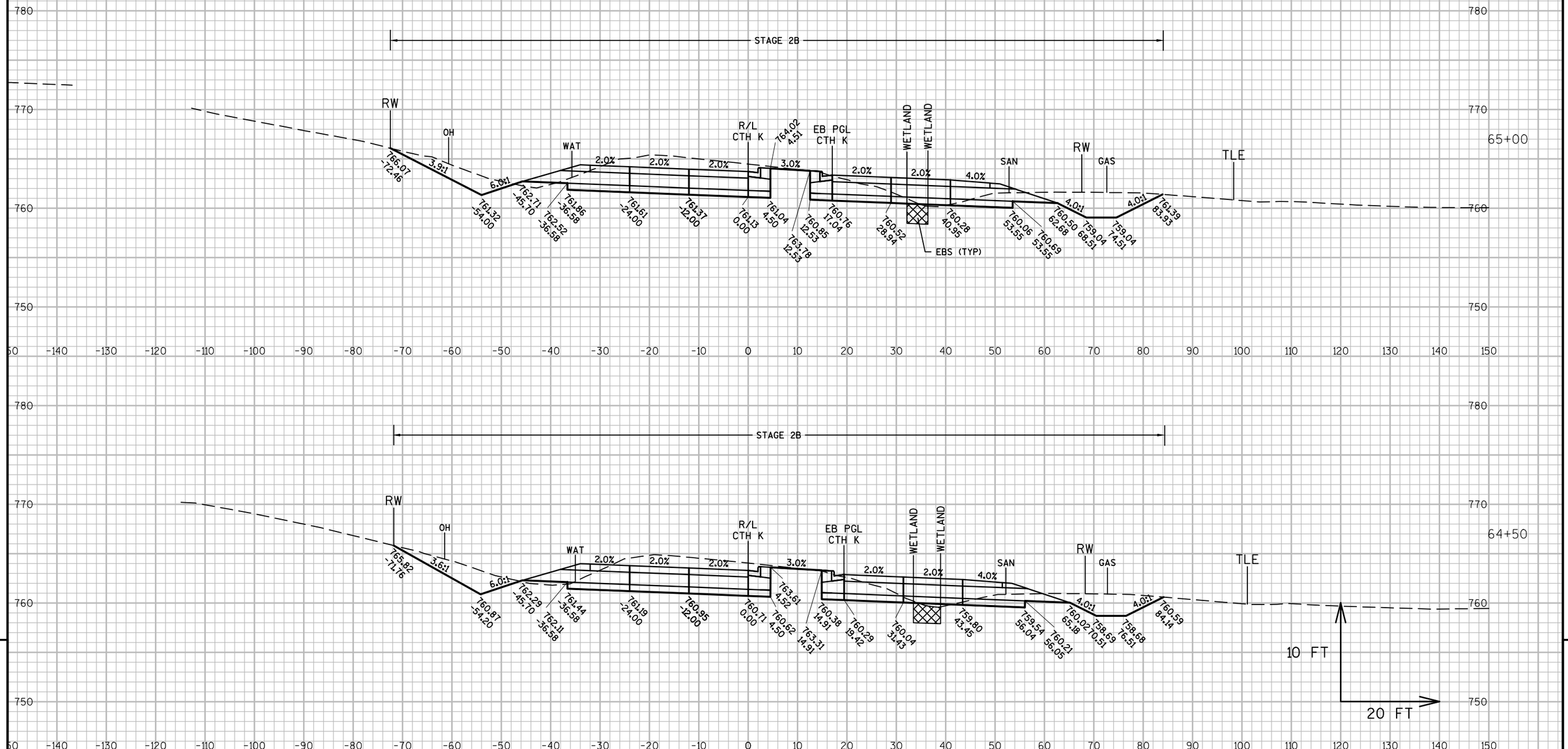


PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 470	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 13

PLOT DATE : 12/12/2016 3:50 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



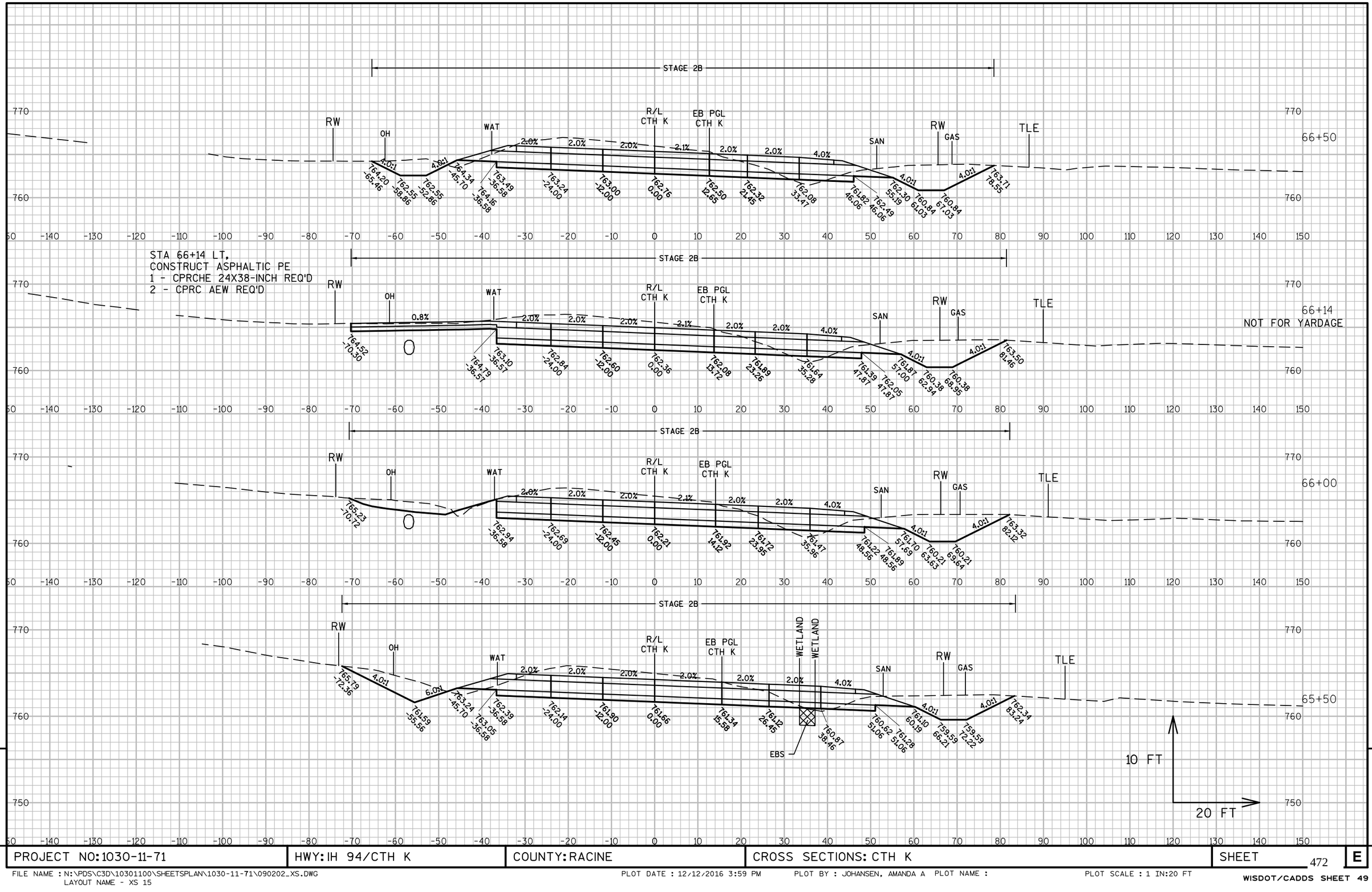
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 471 E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 14

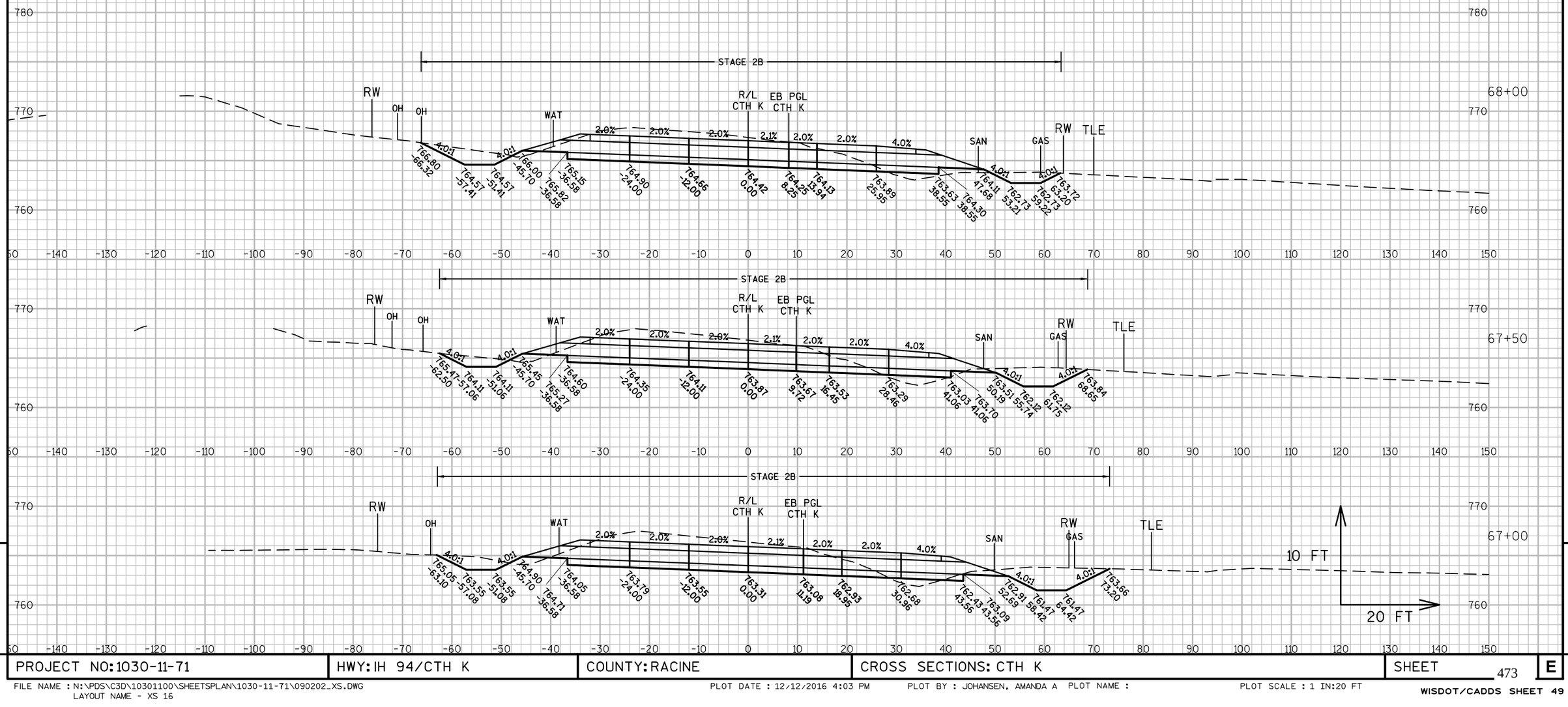
PLOT DATE : 12/12/2016 3:53 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

STA 66+14 LT,
CONSTRUCT ASPHALTIC PE
1 - CPRCHE 24X38-INCH REQ'D
2 - CPRC AEW REQ'D



PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 472 E

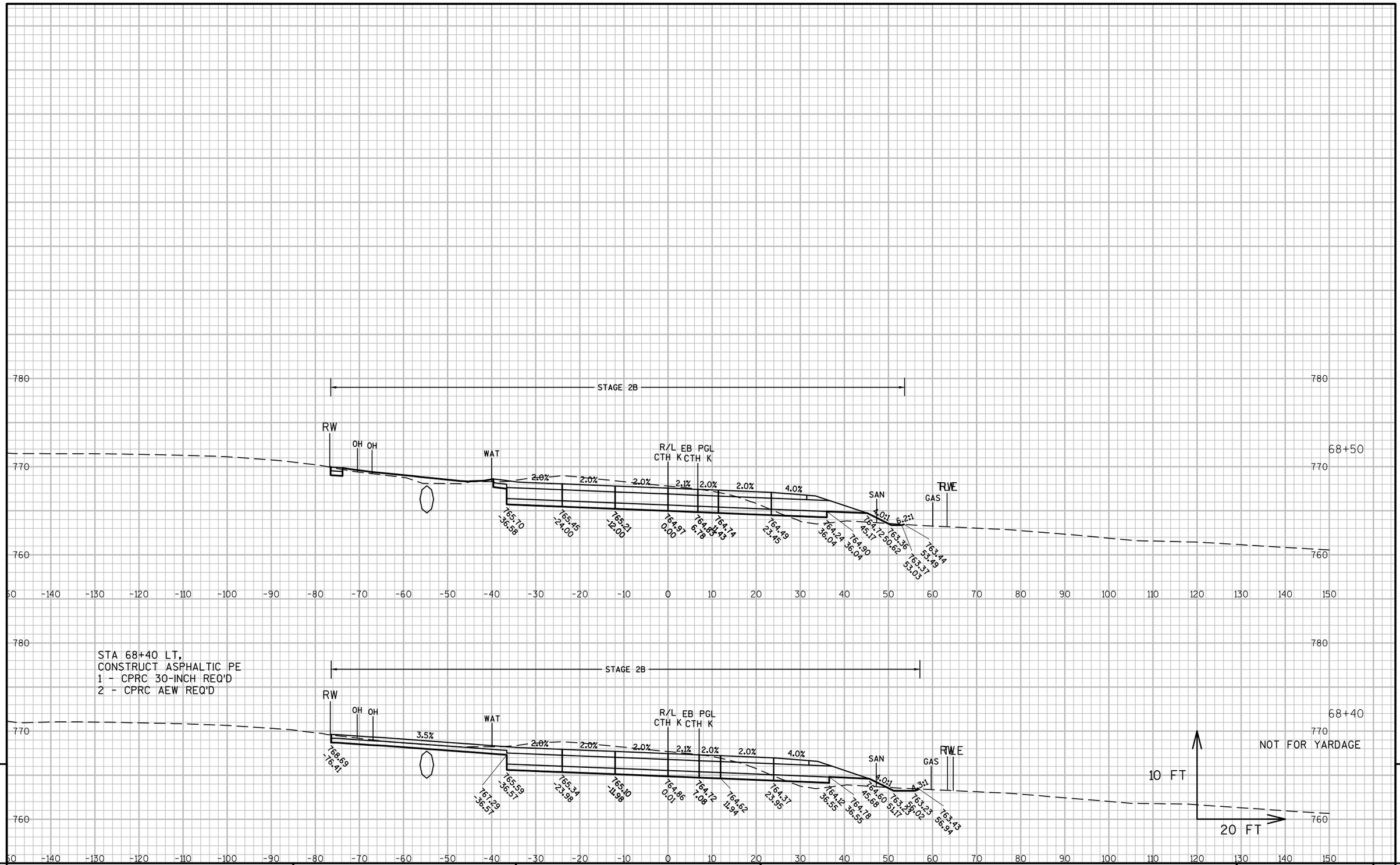


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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 473	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 16
PLOT DATE : 12/12/2016 4:03 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

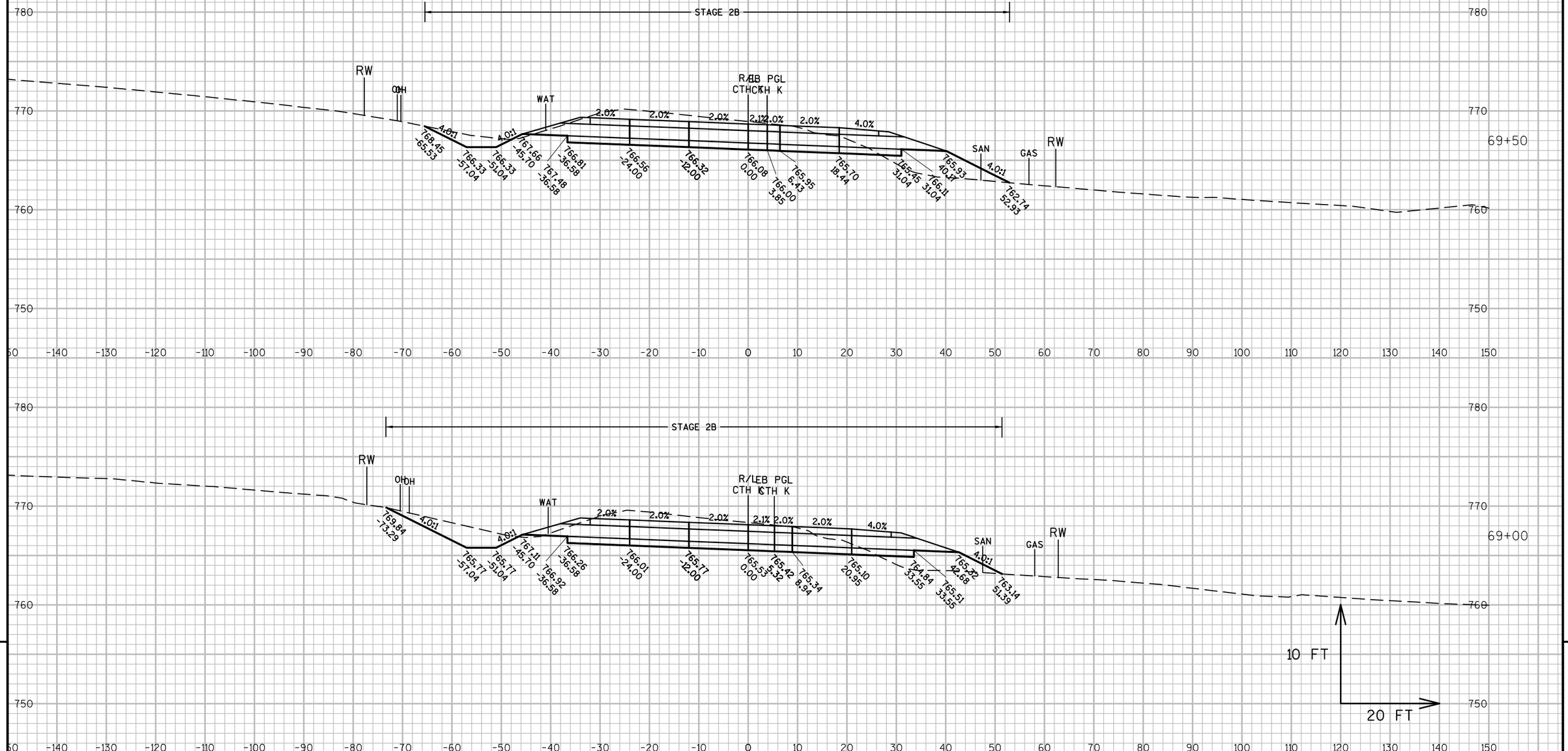


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PROJECT NO:1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 474	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 17
PLOT DATE : 12/12/2016 4:09 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

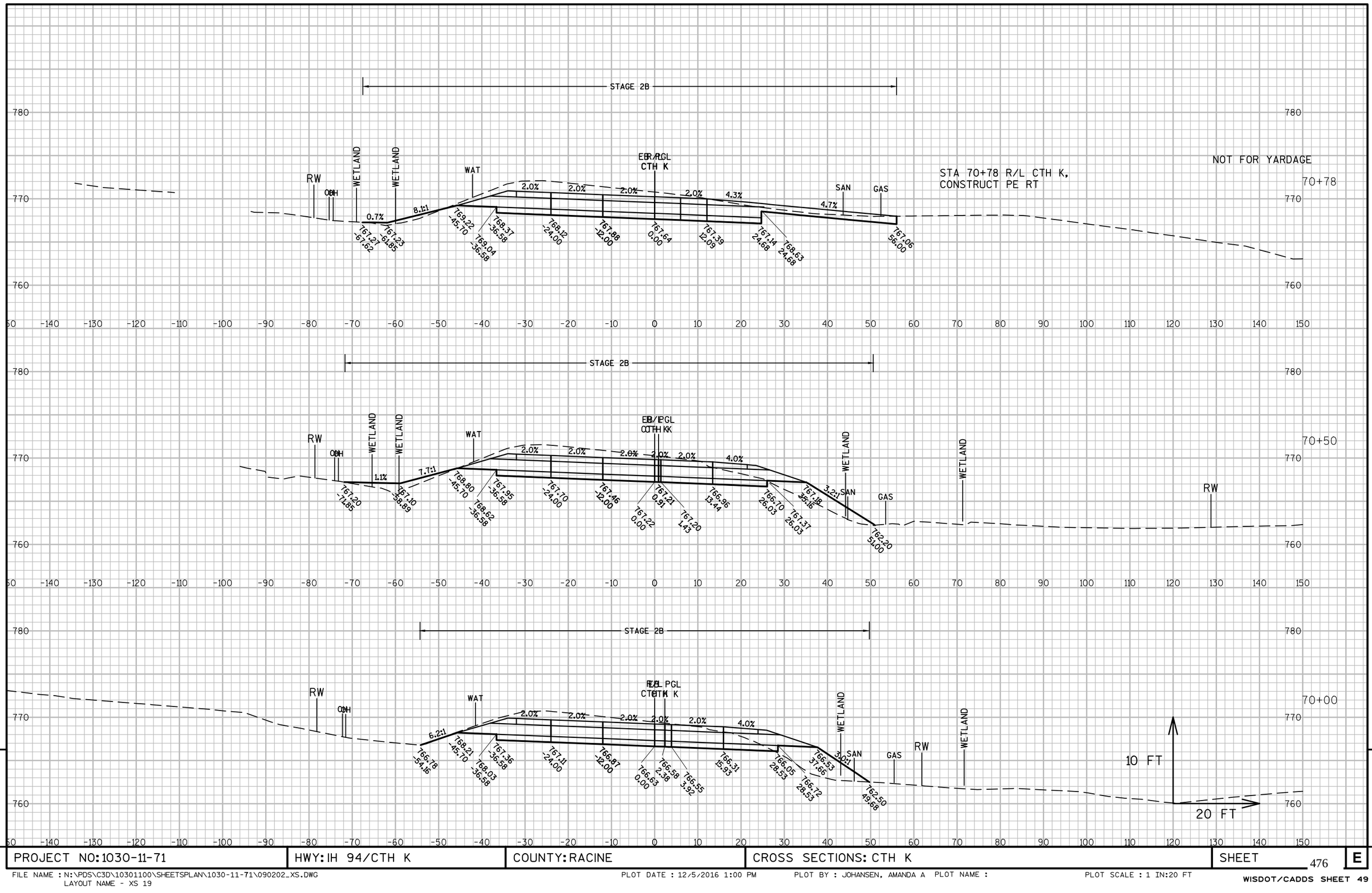


PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 475 E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 18

PLOT DATE : 12/12/2016 4:11 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 476	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 19
PLOT DATE : 12/5/2016 1:00 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :
PLOT SCALE : 1 IN:20 FT

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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 477	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 20

PLOT DATE : 12/5/2016 1:10 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

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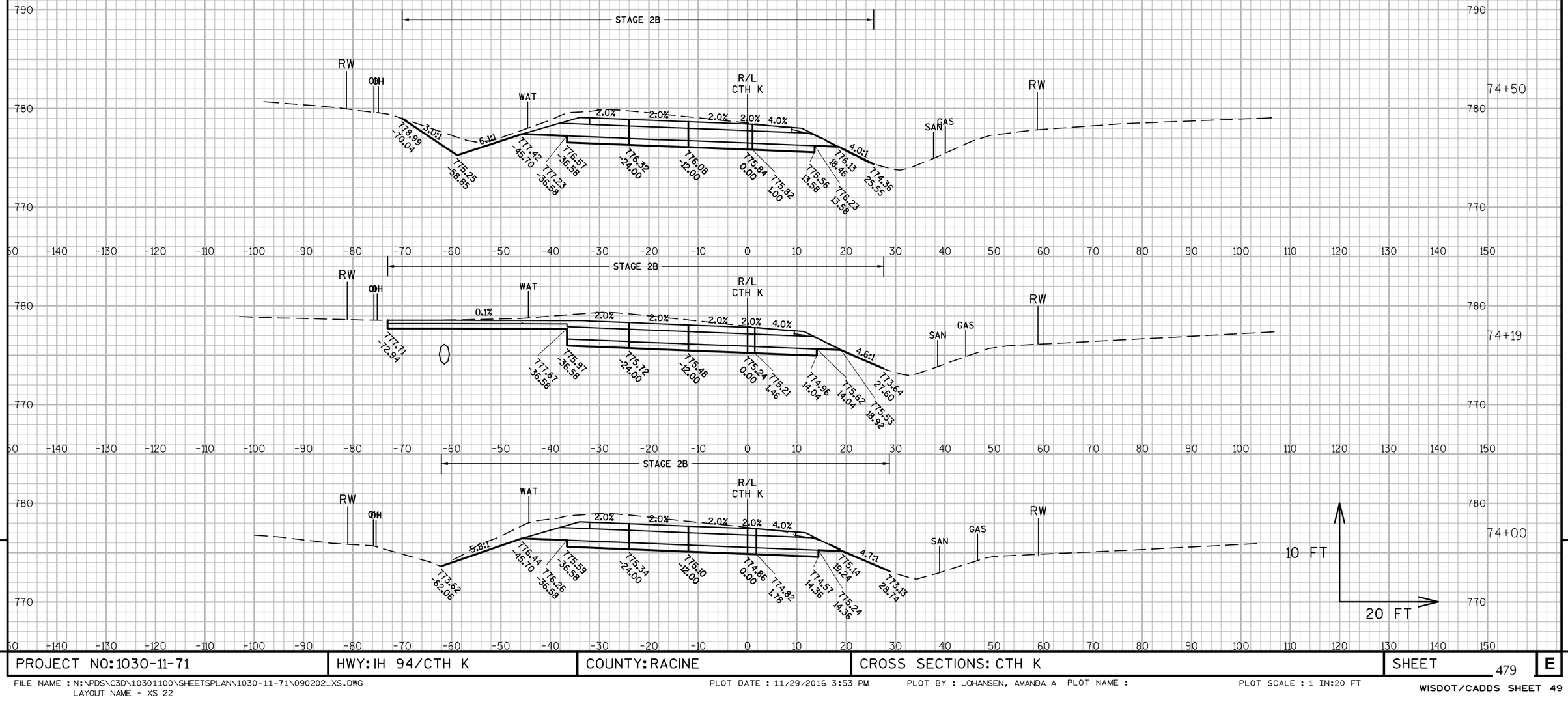
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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 478	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 21

PLOT DATE : 12/5/2016 1:16 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



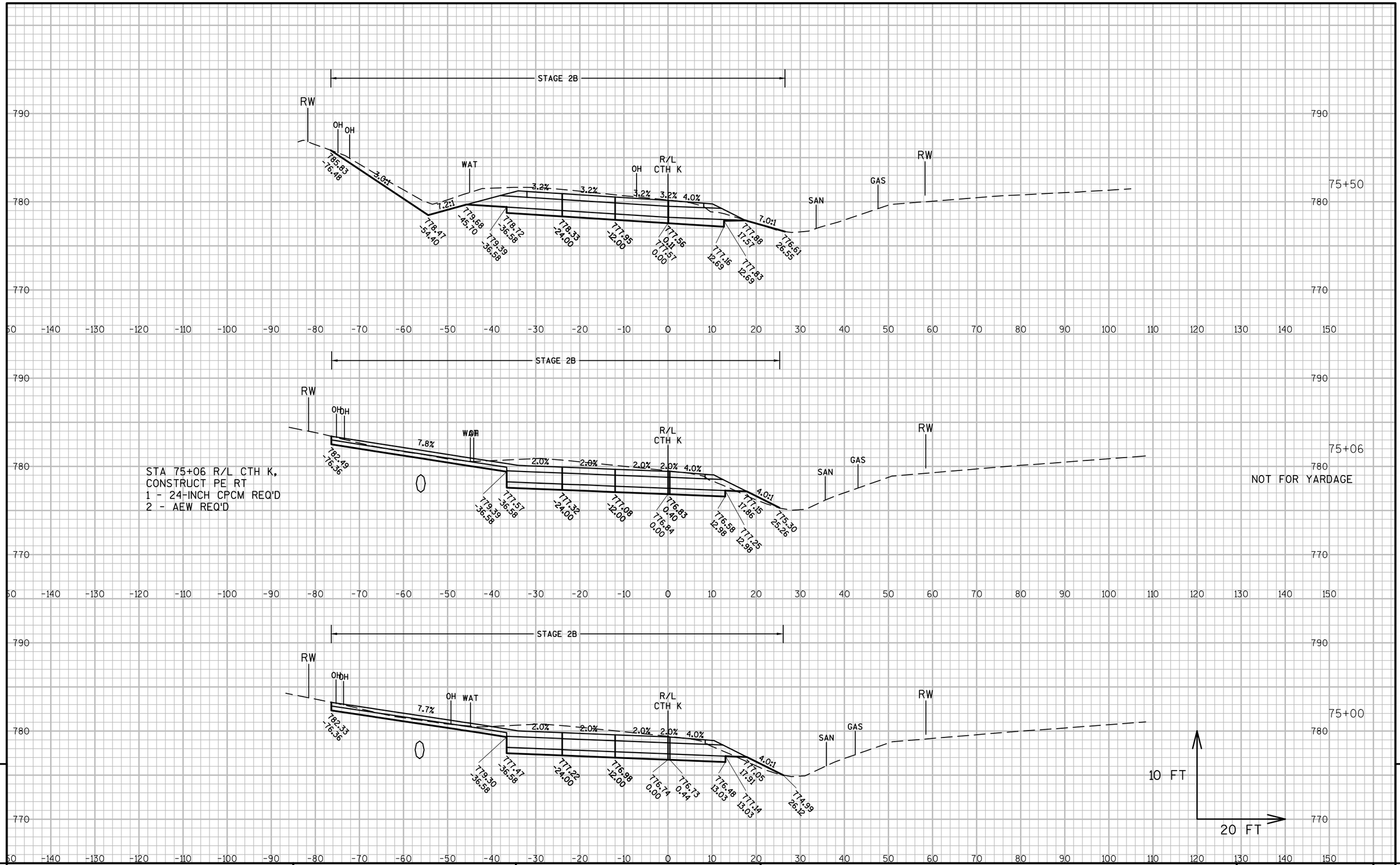
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 479	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 22

PLOT DATE : 11/29/2016 3:53 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

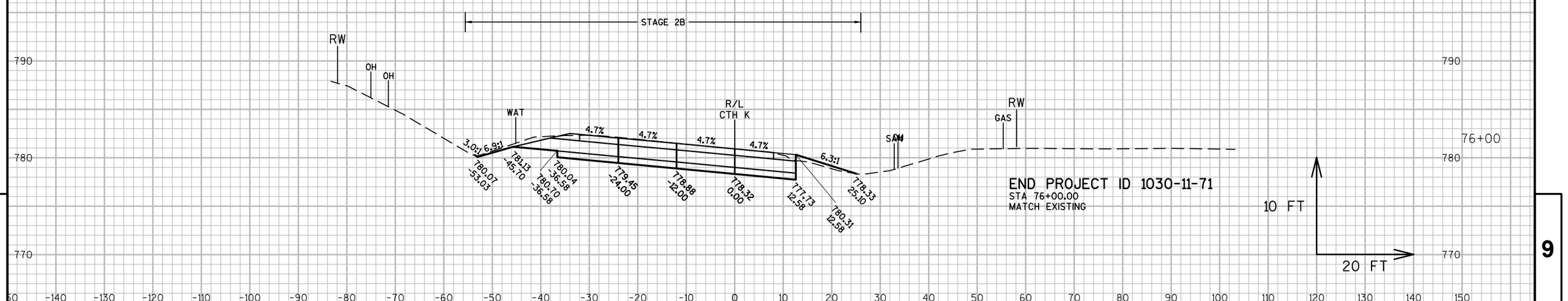


PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 480	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 23

PLOT DATE : 11/29/2016 4:04 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



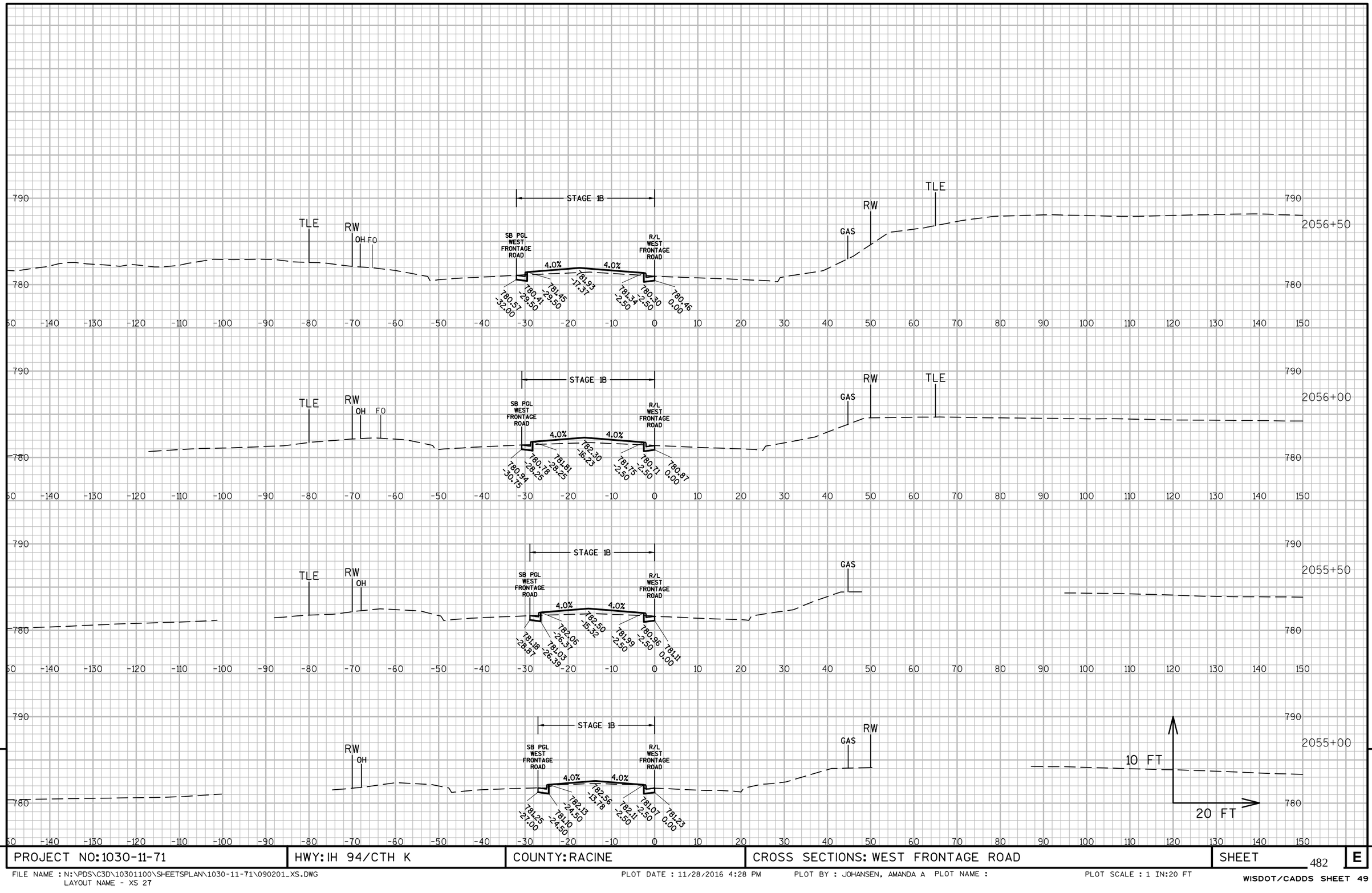
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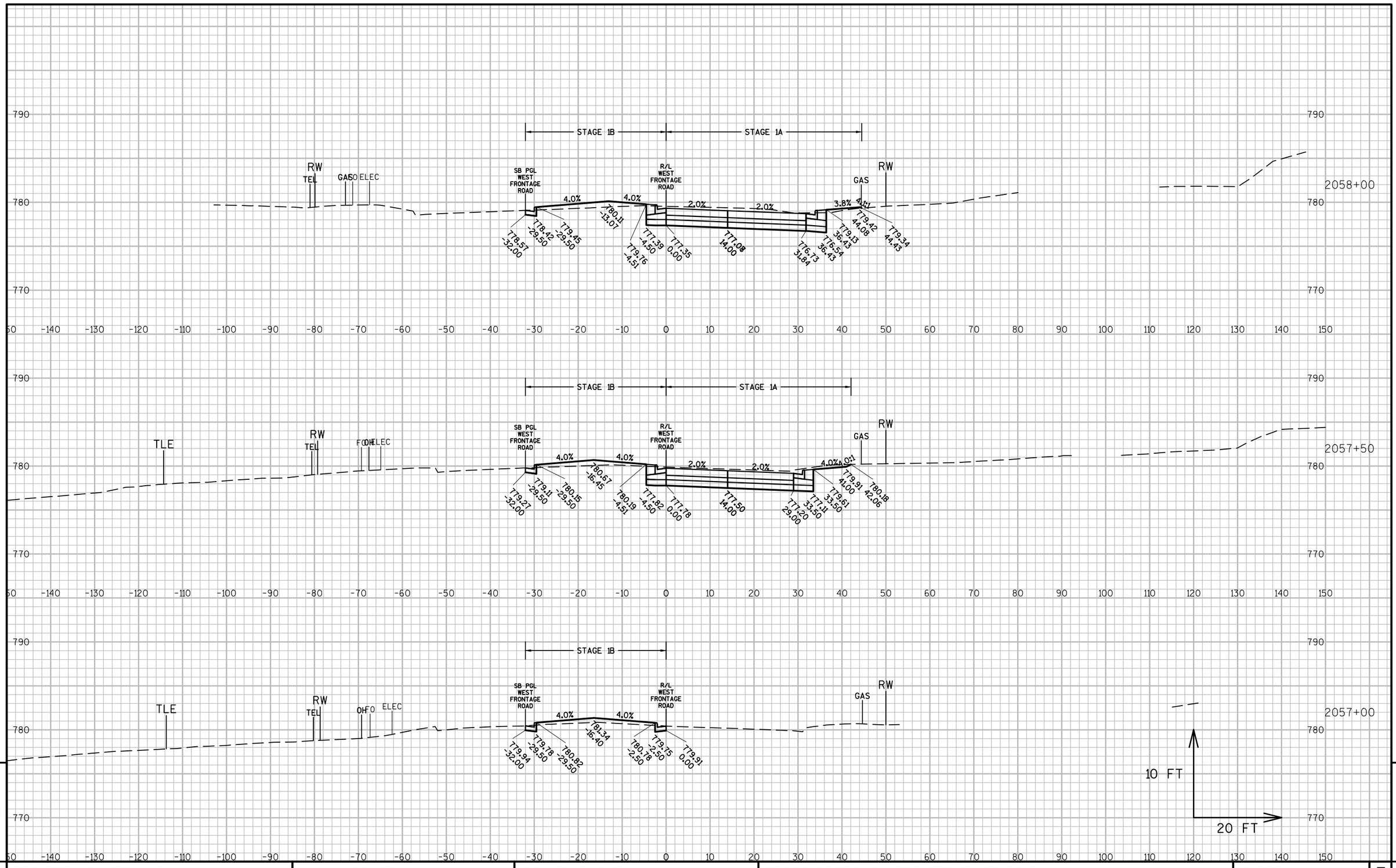
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CTH K	SHEET 481	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS 24

PLOT DATE : 11/29/2016 4:16 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 482 E



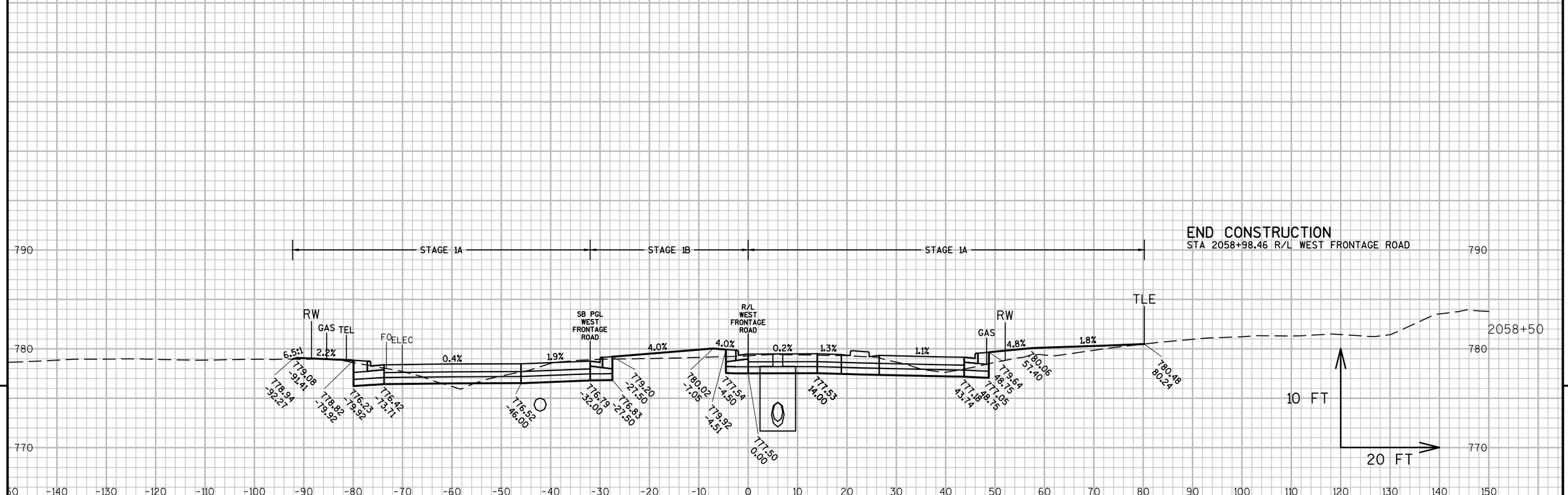
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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 483	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 28

PLOT DATE : 11/28/2016 4:30 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT

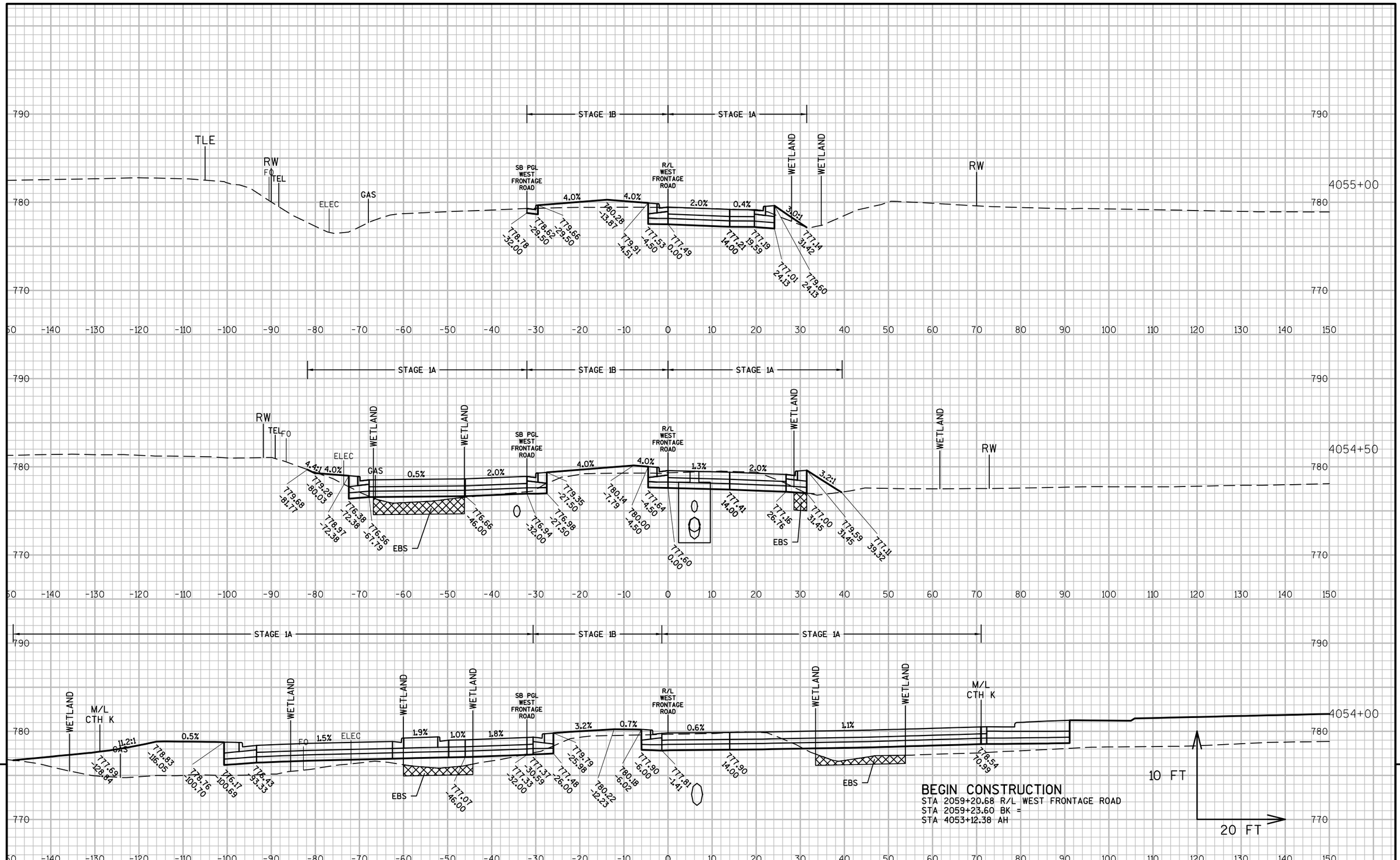


9 9

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 484 E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 29

PLOT DATE : 11/28/2016 4:31 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT



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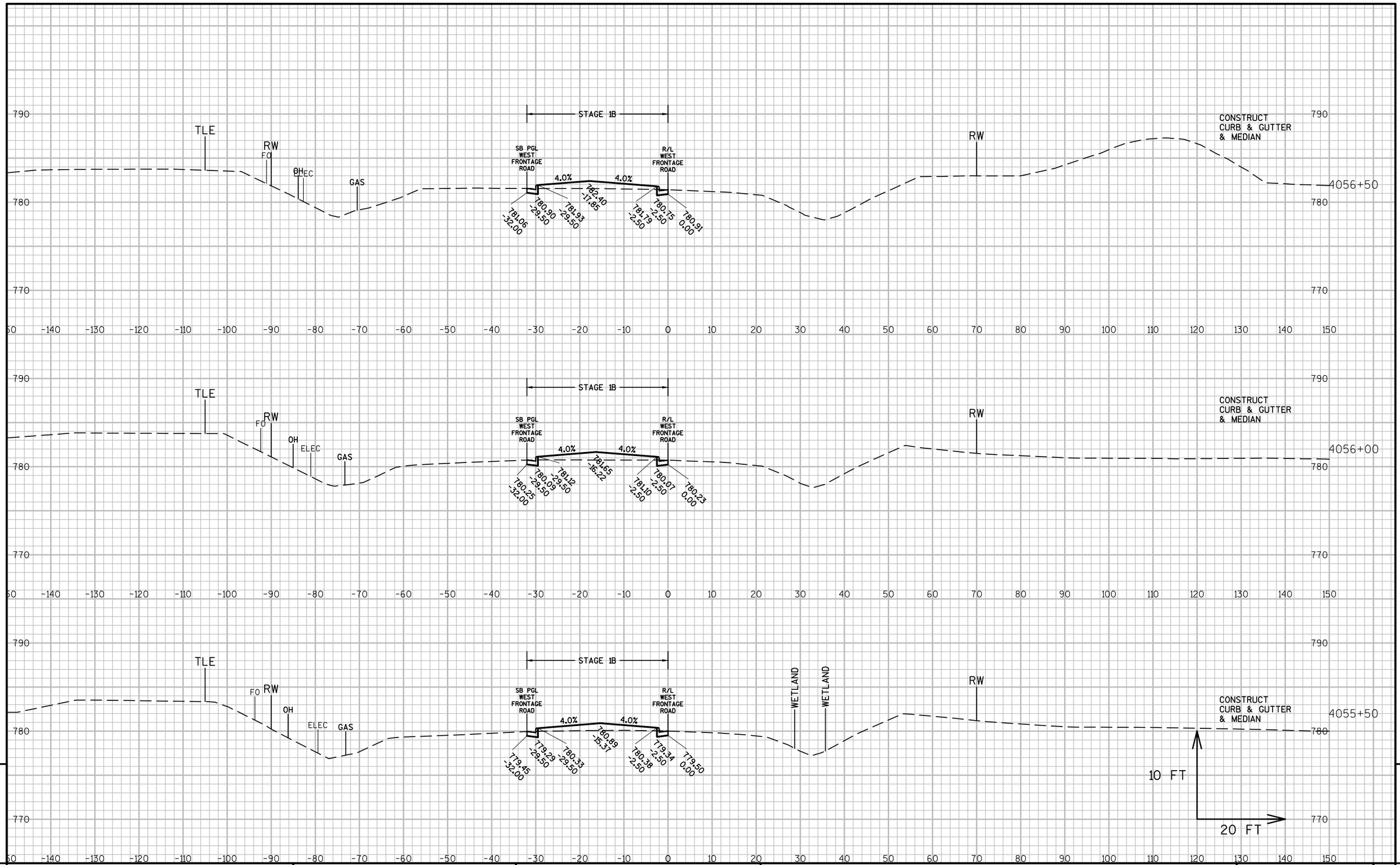
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 485	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 30

PLOT DATE : 12/5/2016 12:36 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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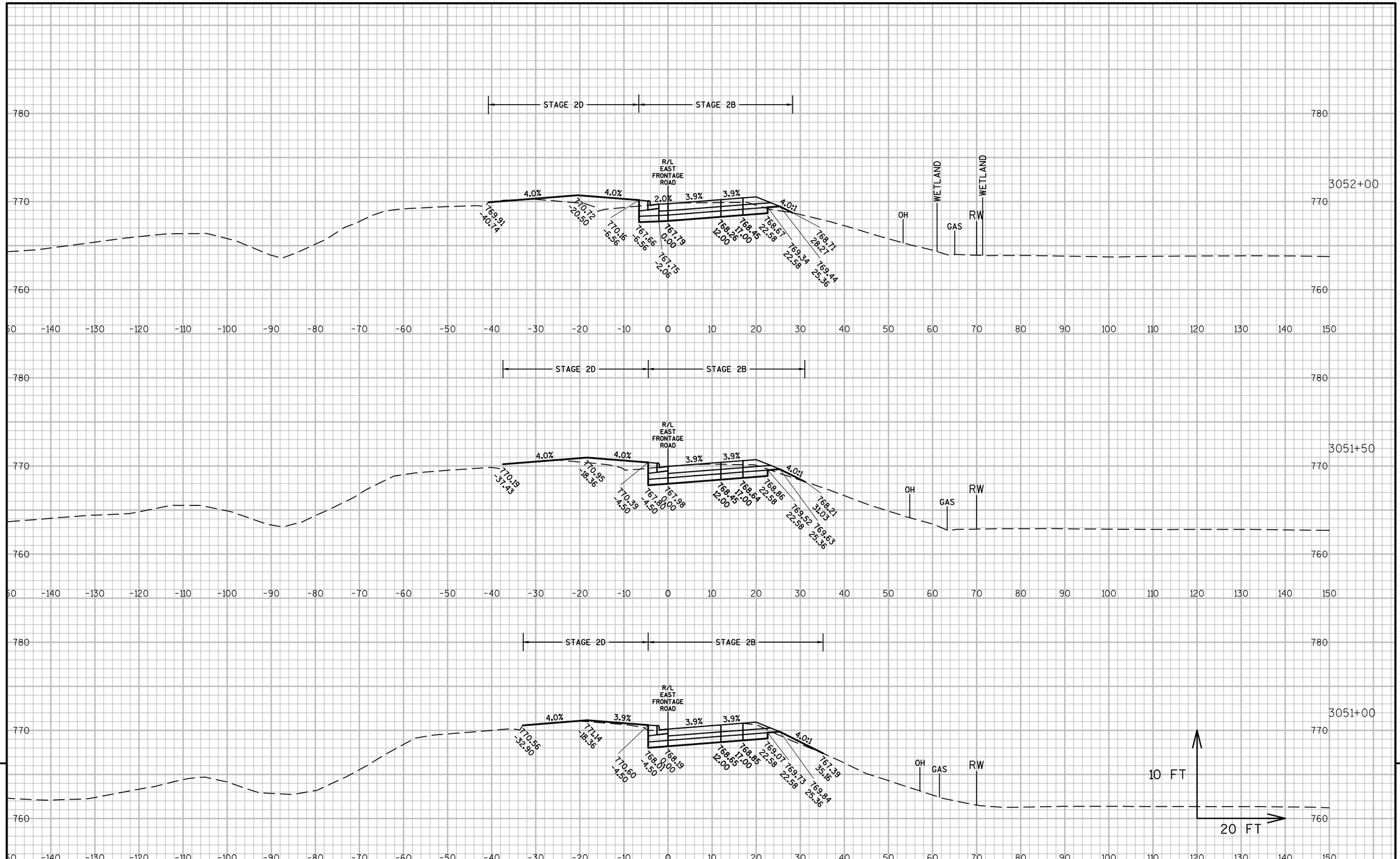
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: WEST FRONTAGE ROAD	SHEET 486	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090201_XS.DWG
LAYOUT NAME - XS 31

PLOT DATE : 11/28/2016 4:41 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 487	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS F1

PLOT DATE : 11/30/2016 6:45 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

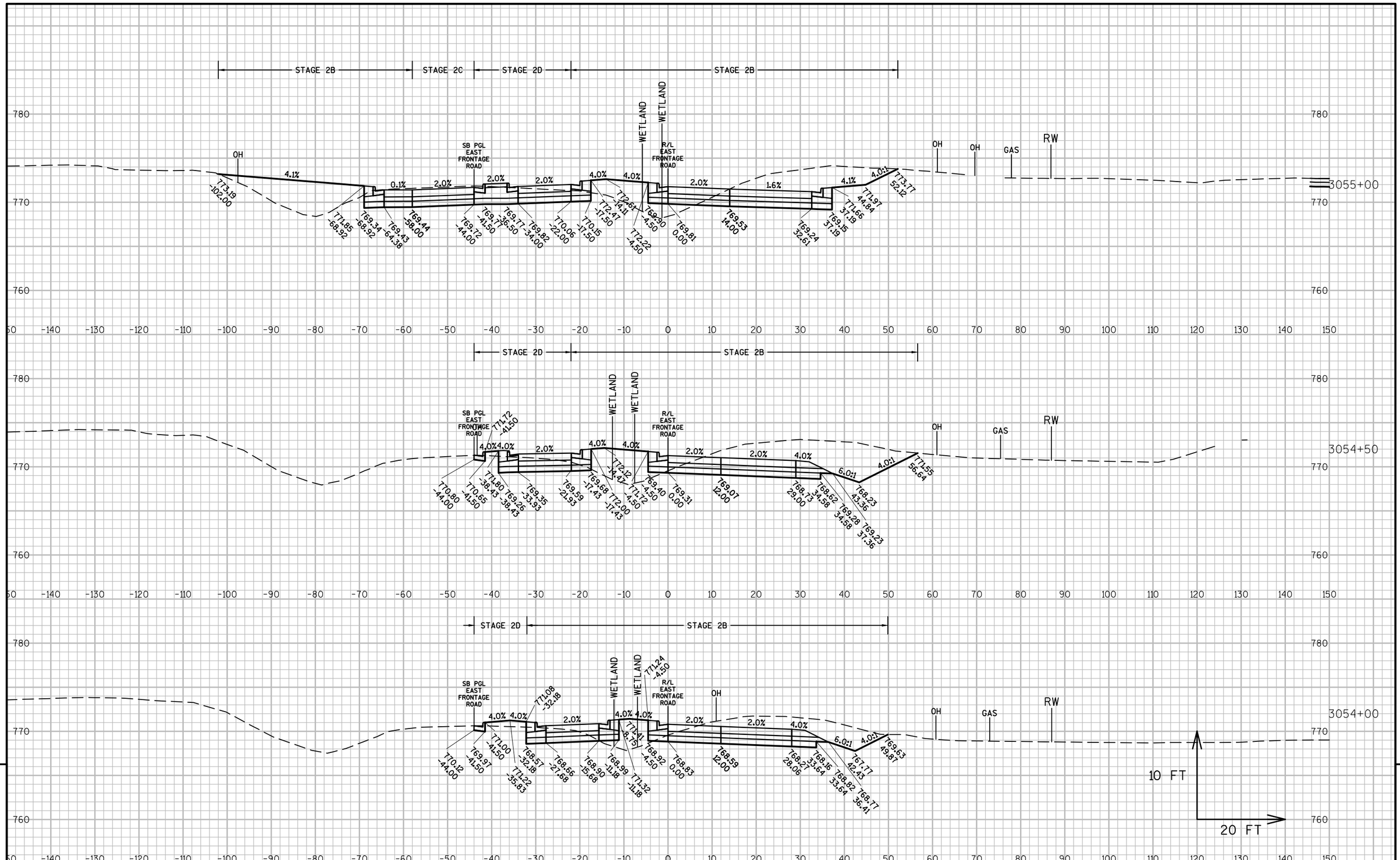
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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 488	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS F2
PLOT DATE : 11/29/2016 4:35 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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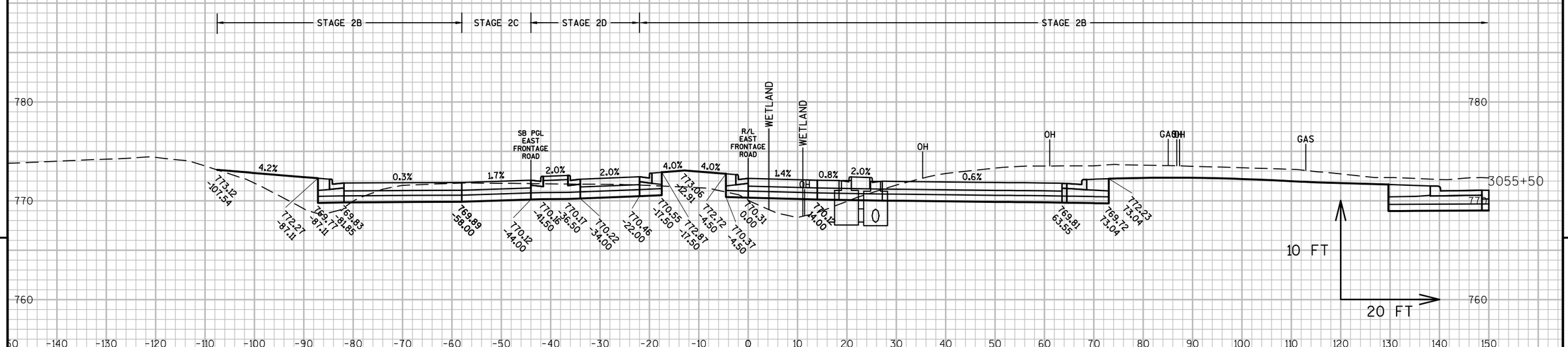
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 489	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS F3

PLOT DATE : 11/29/2016 4:48 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

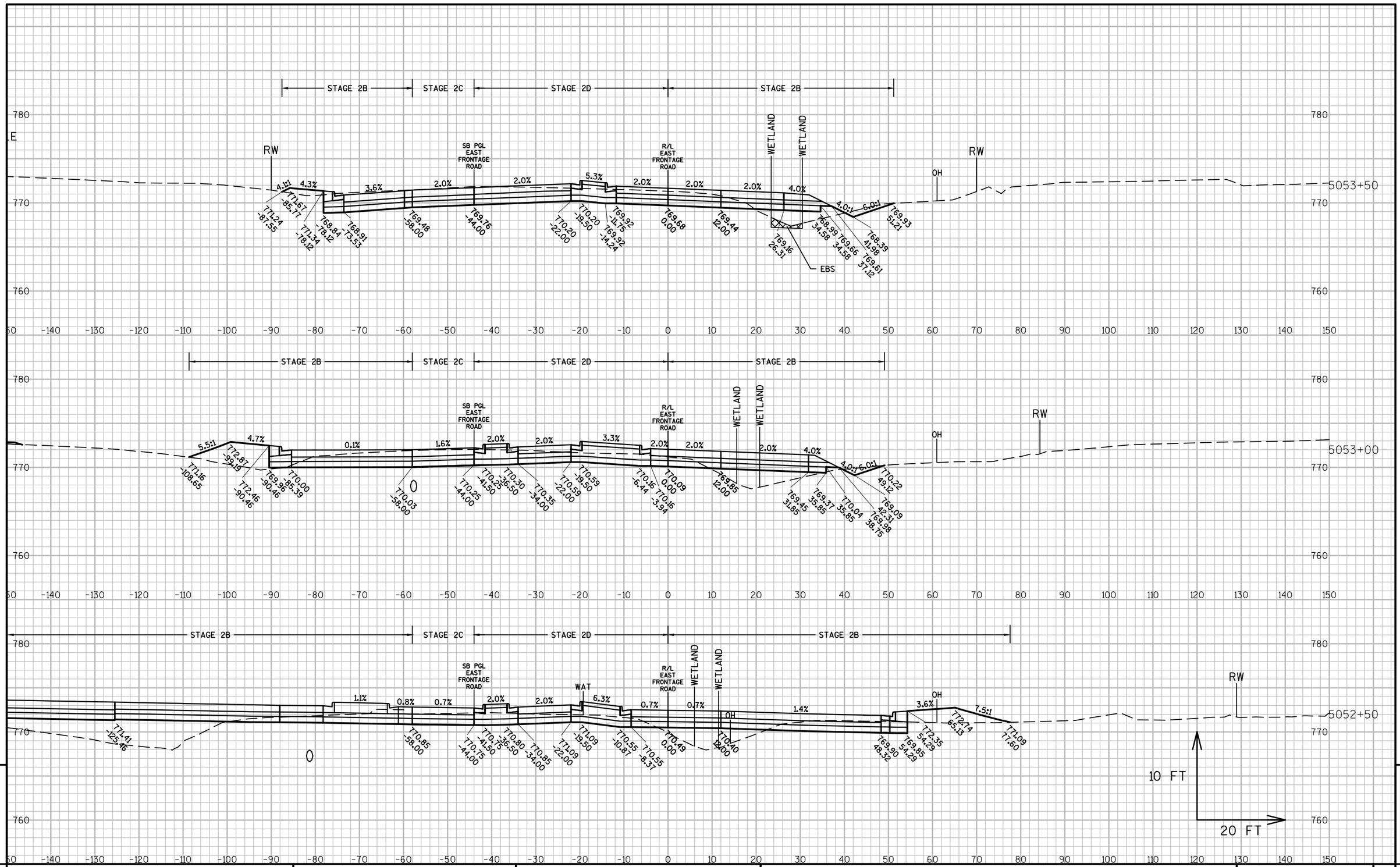
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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 490	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS F4

PLOT DATE : 11/29/2016 4:54 PM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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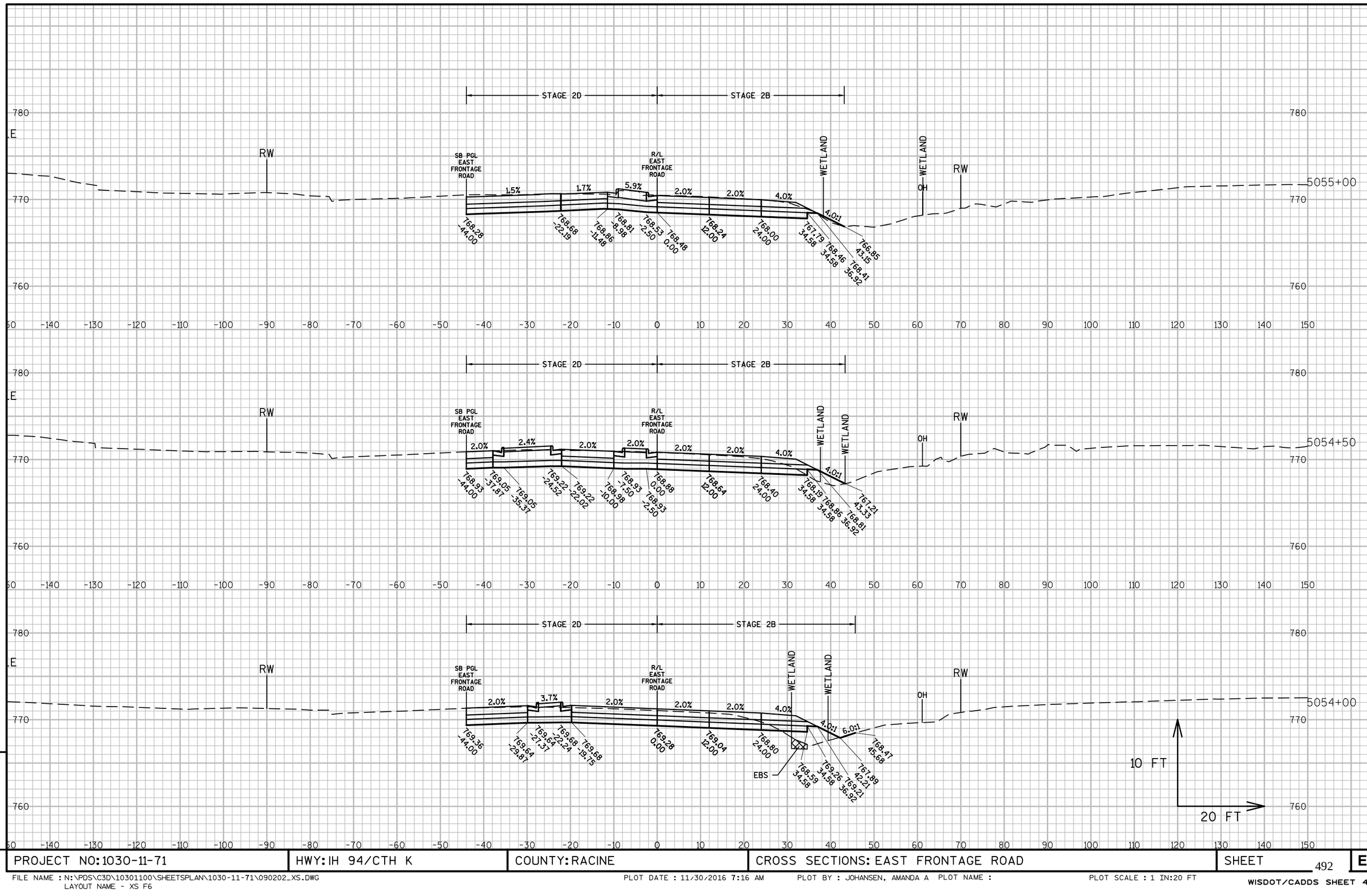
PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 491	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS F5

PLOT DATE : 11/30/2016 7:05 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



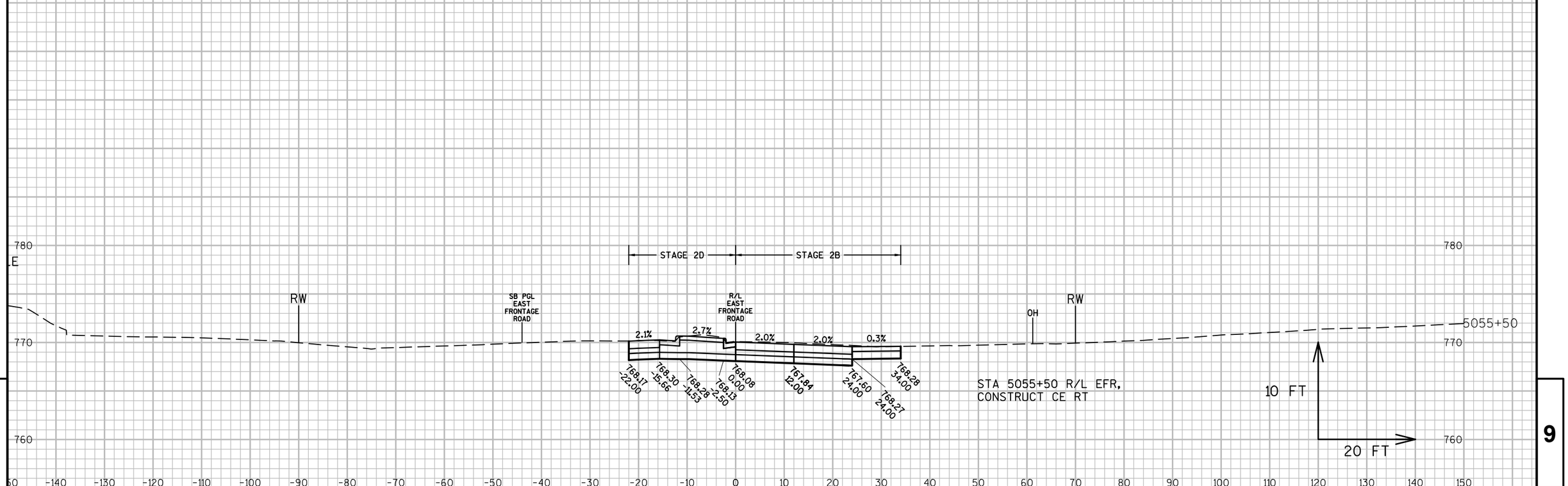
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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 492	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS F6

PLOT DATE : 11/30/2016 7:16 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME : PLOT SCALE : 1 IN:20 FT



9

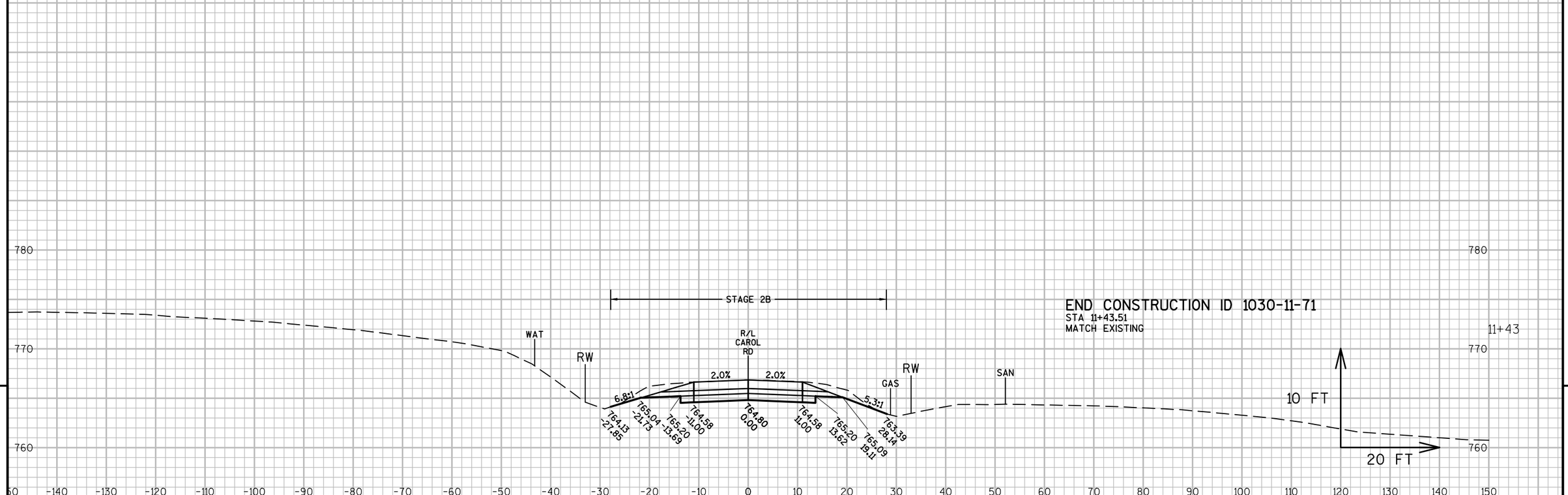
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PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: EAST FRONTAGE ROAD	SHEET 493	E

9

9

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CAROL ROAD	SHEET 494	E



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9

PROJECT NO: 1030-11-71	HWY: IH 94/CTH K	COUNTY: RACINE	CROSS SECTIONS: CAROL ROAD	SHEET 495	E

FILE NAME : N:\PDS\C3D\10301100\SHEETSPLAN\1030-11-71\090202_XS.DWG
LAYOUT NAME - XS A2

PLOT DATE : 11/30/2016 7:37 AM PLOT BY : JOHANSEN, AMANDA A PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

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