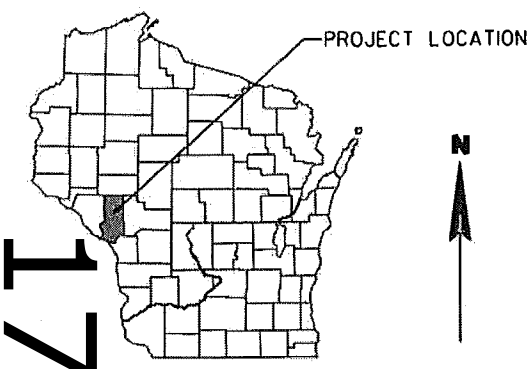


ORDER OF SHEETS

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 = 282



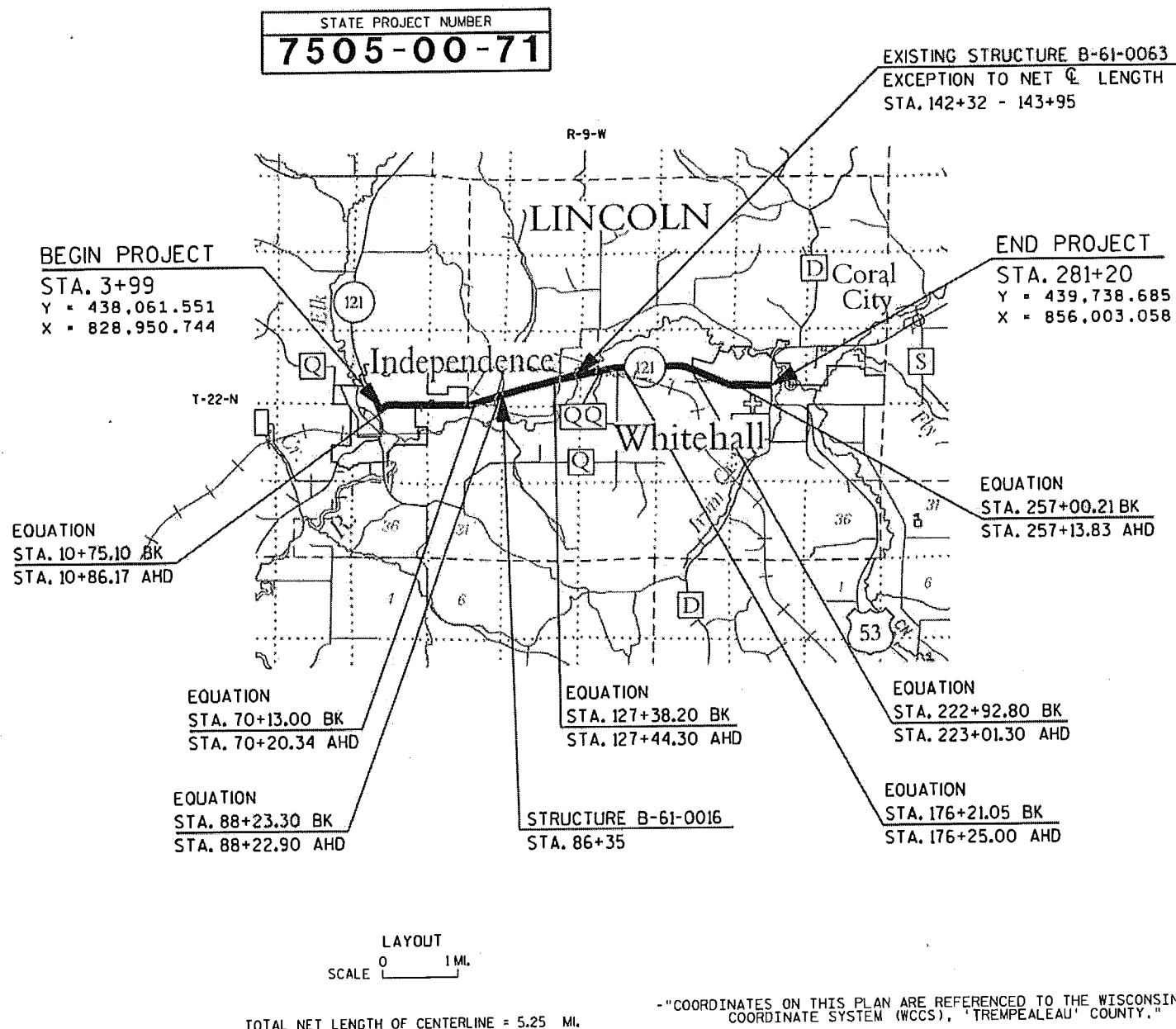
DESIGN DESIGNATION

A.A.D.T. 2015	=	5000
A.A.D.T. 2035	=	6600
D.H.V.	=	792
D.D.	=	50/50
T.	=	15.5%
DESIGN SPEED	=	30-45 URBAN, 55 RURAL
ESALS	=	2,175,400

CONVENTIONAL SYMBOLS

PLAN	PROFILE
CORPORATE LIMITS	GRADE LINE
PROPERTY LINE	ORIGINAL GROUND
LOT LINE	MARSH OR ROCK PROFILE (To be noted as such)
LIMITED HIGHWAY EASEMENT	SPECIAL DITCH
EXISTING RIGHT OF WAY	GRADE ELEVATION
PROPOSED OR NEW R/W LINE	CULVERT (Profile View)
SLOPE INTERCEPT	UTILITIES
REFERENCE LINE	ELECTRIC
EXISTING CULVERT	FIBER OPTIC
PROPOSED CULVERT (Box or Pipe)	GAS
COMBUSTIBLE FLUIDS	SANITARY SEWER
MARSH AREA	STORM SEWER
WOODED OR SHRUB AREA	TELEPHONE
	WATER
	UTILITY PEDESTAL
	POWER POLE
	TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
INDEPENDENCE - NORTHFIELD
STH 93 TO USH 53
STH 121
TREMPLEALEAU COUNTY



STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
7505-00-71	WISC 2014398	1

ORIGINAL PLANS PREPARED BY:

MSAPROFESSIONAL SERVICES
TRANSPORTATION • MUNICIPAL
DEVELOPMENT • ENVIRONMENTAL146 North Central Ave. Marshfield, WI 54449
715-384-2133 1-877-204-0612 Fax: 715-384-97874/24/14
Date SignatureSTATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	WISDOT
Surveyor	
Designer	MSA PROFESSIONAL SERVICES
Project Manager	STACIE LAMBELE
Regional Examiner	DAN OJIBWAY
Regional Supervisor	TIM MASON
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 4/24/14 Signature

E

GENERAL NOTES

- LOWER LEVELING LAYER OF ASPHALT SHALL BE 1½ INCHES OF 12.5 MM HMA PAVEMENT TYPE E-3, SPECIAL.
- THE UPPER LAYER OF ASPHALT SHALL BE 2 INCHES OF 12.5 MM HMA PAVEMENT TYPE E-3, SPECIAL.
- THE CENTERLINE JOINT BETWEEN PAVEMENT LAYERS SHALL BE LOCATED AT THE CENTERLINE OF THE ROADWAY. TRAFFIC TAPERS SUCH AS "MICHIGAN JOINT" ARE REQUIRED TO BE REMOVED PRIOR TO PAVING THE ADJACENT LANE. THE CONTRACTOR MAY CHOOSE TO MATCH UP EACH DAYS PAVING TO AVOID REMOVING TRAFFIC TAPERS. THIS WORK IS PAID UNDER THE MILLING AND REMOVING TEMPORARY JOINT SPV.0105.02
- THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE MANHOLE COVERS, WATER VALVES AND OTHER UTILITIES IN THE EXISTING PAVEMENT DURING MILLING OPERATIONS. NECESSARY WORK TO PROTECT UTILITIES DURING PAVEMENT REMOVAL IS INCIDENTAL TO MILLING ITEMS.
- THE LOCATION OF EXISTING AND PROPOSED UTILITY INSTALLATIONS SHOWN ON THE PLANS ARE APPROXIMATE. IT IS THE CONTRACTORS RESPONSIBILITY TO CONTACT DIGGERS HOTLINE AS THERE MAY BE OTHER UTILITIES NOT SHOWN ON THE PLANS

STANDARD ABBREVIATIONS

AC	ACRES
AEW	APRON ENDWALL
AH	AHEAD
ALUM.	ALUMINUM
A.P.	ACCESS POINT
ASPH	ASPHALT
BAD	BASE AGGREGATE DENSE
BK	BACK
BLK	BLOCK
BOC	BACK OF CURB
BOW	BACK OF SIDEWALK
BM	BENCHMARK
CL or C/L	CENTERLINE
Δ.	CENTRAL ANGLE or DELTA
CONC	CONCRETE
CSM	CERTIFIED SURVEY MAP
CTH	COUNTY TRUNK HIGHWAY
CY	CUBIC YARD
D	DEGREE OF CURVE
DIA	DIAMETER
E	EAST
EB	EASTBOUND
EBS	EXCAVATION BELOW SUBGRADE
EOP	EDGE OF PAVEMENT
ET AL	AND OTHERS
EXIST or EX.	EXISTING
EW	END WALL
FOC	FACE OF CURB
FT	FOOT
FT2	SQUARE FEET
CN	GRID NORTH
CV	GAS VALVE
HB	HOSE BIB
HERCP	HORIZONTAL ELLIPTICAL CONCRETE PIPE
IN	INCH
INV	INVERT
IP	IRON PIPE
L	LENGTH
L	LENGTH OF CURVE
LC	LONG CHORD
LCB	LONG CHORD BEARING
LF	LINEAR FEET
LS	LUMP SUM
LT	LEFT
MH	MANHOLE
MI	MILE
MON	MONUMENT
N	NORTH
NB	NORTHBOUND
NO	NUMBER
PT	POINT
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PL	PROPERTY LINE
POB	POINT OF BEGINNING
R	RADIUS
RP	RADIUS POINT
R	RANGE
RL or R/L	REFERENCE LINE
REQ'D	REQUIRED
RT	RIGHT
R/W	RIGHT-OF-WAY
RD	ROAD
S	SOUTH
SB	SOUTHBOUND
SQ	SQUARE
SAN	SANITARY SEWER
STD	STANDARD
STH	STATE TRUNK HIGHWAY
STM	STORM SEWER
SEC	SECTION
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
SSPRCHE	STORM SEWER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
STA	STATION
STR	STRUCTURE
SY	SQUARE YARD
T	TANGENT
TAN	TANGENT
TEMP	TEMPORARY
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
T or TN	TOWN
W	WEST
WB	WESTBOUND
WM	WATERMAIN
X	EAST GRID COORDINATE
Y	NORTH GRID COORDINATE

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC.
ATTN.: DAVE KATZNER
146 NORTH CENTRAL AVE., SUITE 201
MARSHFIELD, WI 54449
PHONE: 715-384-2133
dkatzner@msa-ps.com

DNR LIAISON

KAREN KALVELAGE
3550 MORMON COULEE ROAD
LA CROSSE, WI 54601
PHONE: 608-785-9115

UTILITIES

COMMUNICATION LINE:
CENTURY LINK
835 RED IRON RD.
BLACK RIVER FALLS, WI 54615
ATTN: DONNA SMOTHERS
PHONE: 715-797-4854
donna.smothers@centurylink.com

COMMUNICATION LINE:
CHARTER COMMUNICATIONS
2304 S. MAIN ST.
RICE LAKE, WI 54868
ATTN: JAMEY OLDEEN
PHONE: 715-236-5005

COMMUNICATION LINE:
TRI-COUNTY COMMUNICATIONS COOPERATIVE
417 5th Ave.
STRUM, WI 54770
ATTN: BRIAN MELSNESS
PHONE: 715-530-0081
bmelsnesse@tcc.coop

GAS/PETROLEUM:
MIDWEST NATURAL GAS INCORPORATED
23389 WHITEHALL ROAD
INDEPENDENCE, WI 54747
ATTN: ELIOT SOLSRUD
PHONE: 608-780-9233

GAS/PETROLEUM:
NORTHERN NATURAL GAS COMPANY
4685 212TH ST. WEST
P.O. BOX 188
FARMINGTON, MN 55024-0188
ATTN: DEREK SANDMANN
PHONE: 612-360-8945
derek.sandmann@nngco.com

SEWER:
T. LINCOLN SANITARY
DISTRICT #1
W20944 SOSALLA RD
WHITEHALL, WI 54773
ATTN: ALLEN

ELECTRICITY/COMMUNICATION LINE/
ELECTRICITY TRANSMISSION:
EXCEL ENERGY
1414 W. HAMILTON AVE
P.O. BOX 8
EAU CLAIRE, WI 54702-0008
ATTN: DAWN SCHULTZ
PHONE: 715-737-2482
down.schultz@excelenergy.com

ELECTRICITY:
DAIRYLAND POWER COOPERATIVE
3200 EAST AVE. S.
P.O. BOX 817
LA CROSSE, WI 54602
ATTN: KURT CHILDS
PHONE: 608-788-4000
kdc@dairynet.com

ELECTRICITY:
RIVERLAND ENERGY COOPERATIVE
N28988 HWY 93
ARCADIA, WI 54612
ATTN: DOUG GERRITTS
PHONE: 608-797-0757
dgerritts@riverlandenergy.com

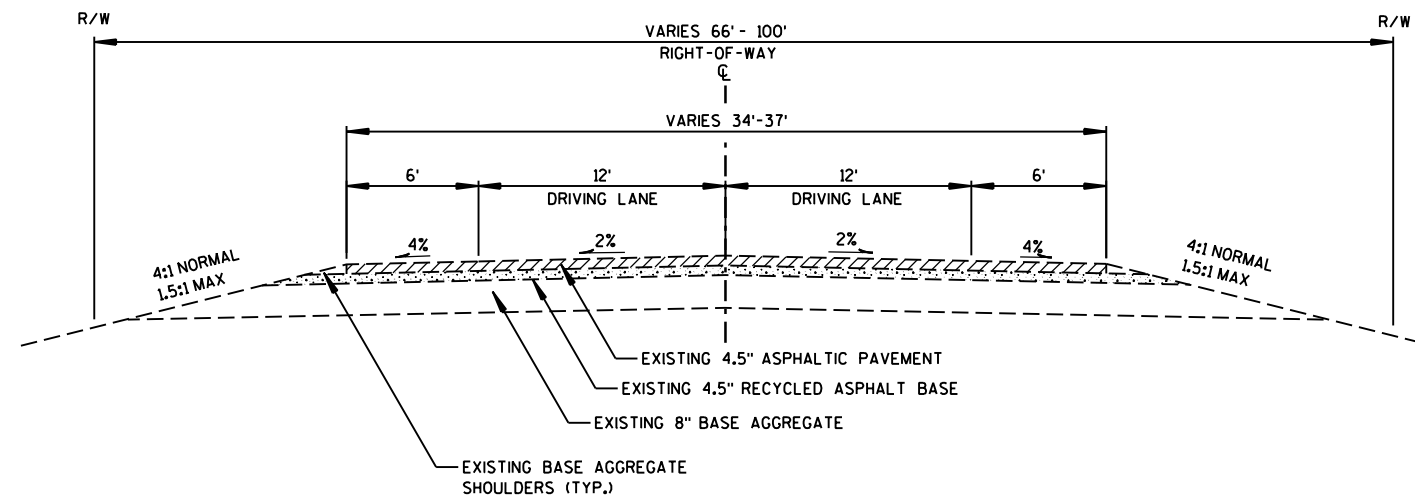
ELECTRICITY:
WHITEHALL MUNICIPAL ELECTRIC UTILITY
18620 HOBSON ST.
P.O. BOX 155
WHITEHALL, WI 54773
ATTN: NEAL WOZNEY
PHONE: 715-538-4353

SEWER/WATER:
CITY OF INDEPENDENCE
23688 ADAMS ST.
P.O. BOX 189
INDEPENDENCE, WI 54747-0189
ATTN: DENNIS PRONSCHINSKE
PHONE: 715-530-0934
indeews@triwest.net

SEWER/WATER:
CITY OF WHITEHALL
18620 HOBSON ST.
P.O. BOX 115
WHITEHALL, WI 54773
ATTN: RANDY OLSON
PHONE: 715-538-4353
rolson@wppienergy.org

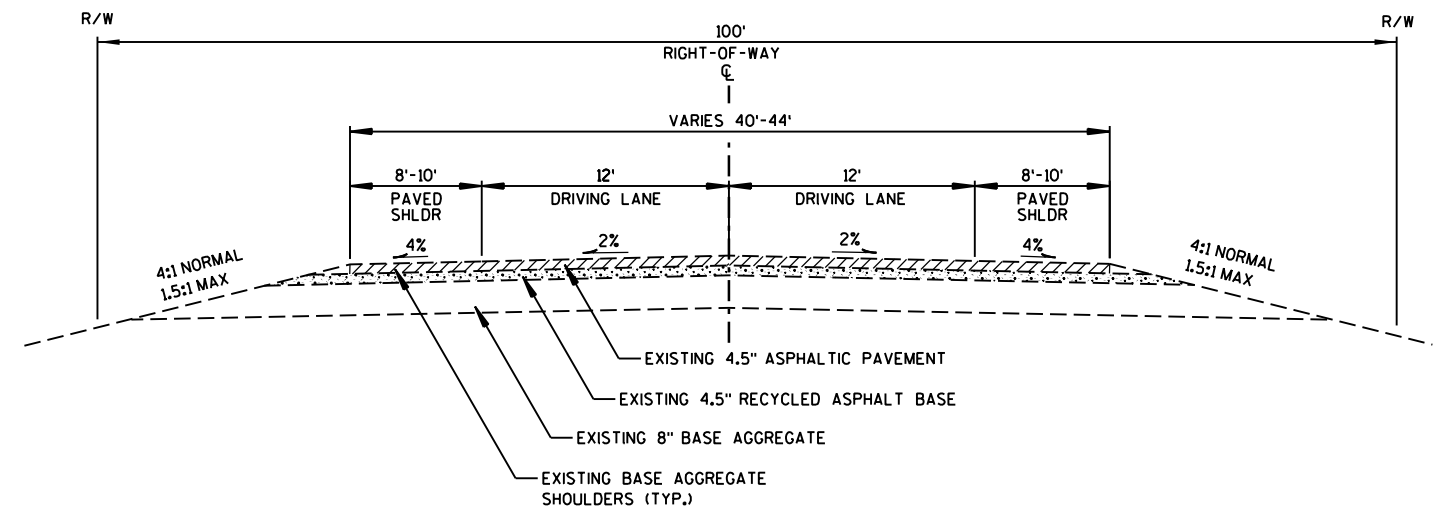


Dial 811 or (800)242-8511
www.DiggersHotline.com



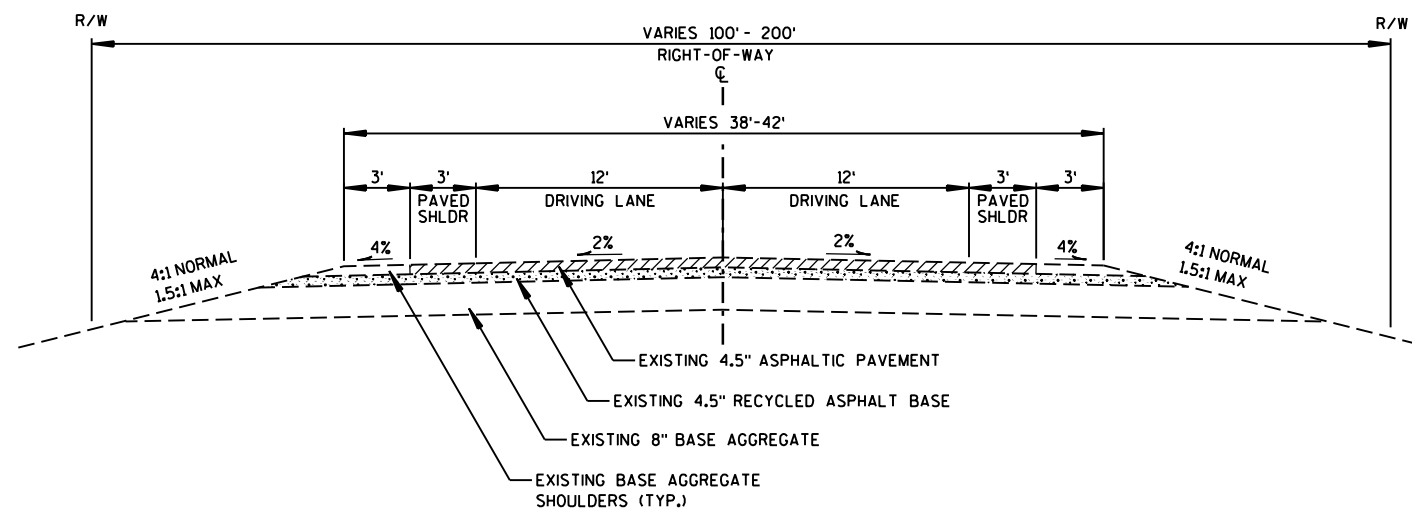
TYPICAL EXISTING SECTION

STH 121
STA. 3+99 - STA. 44+00



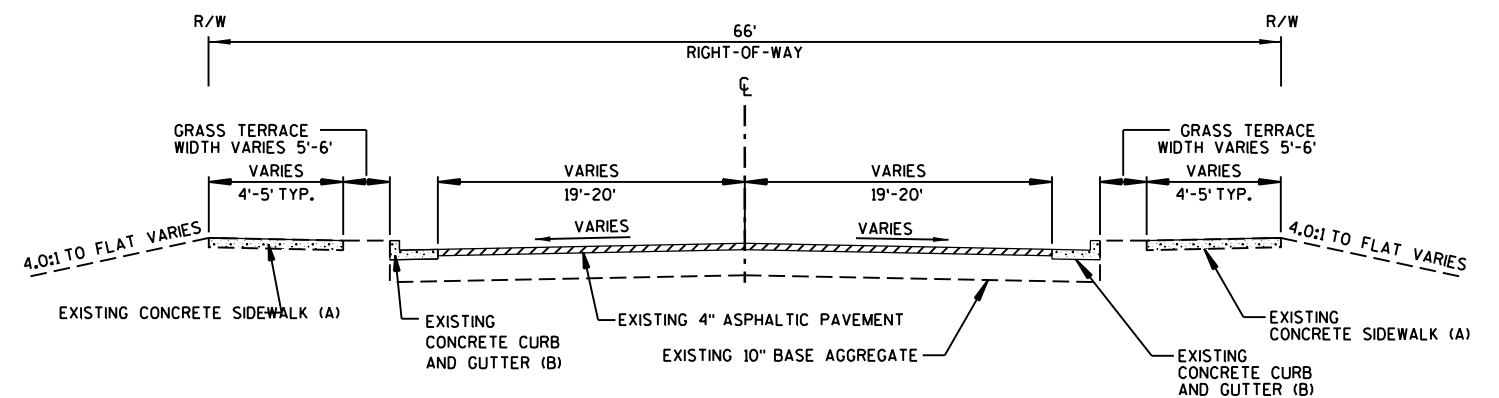
TYPICAL EXISTING SECTION

STH 121
STA. 235+00 - STA. 253+45



TYPICAL EXISTING SECTION

STH 121
STA. 44+00 - STA. 235+00



TYPICAL EXISTING SECTION

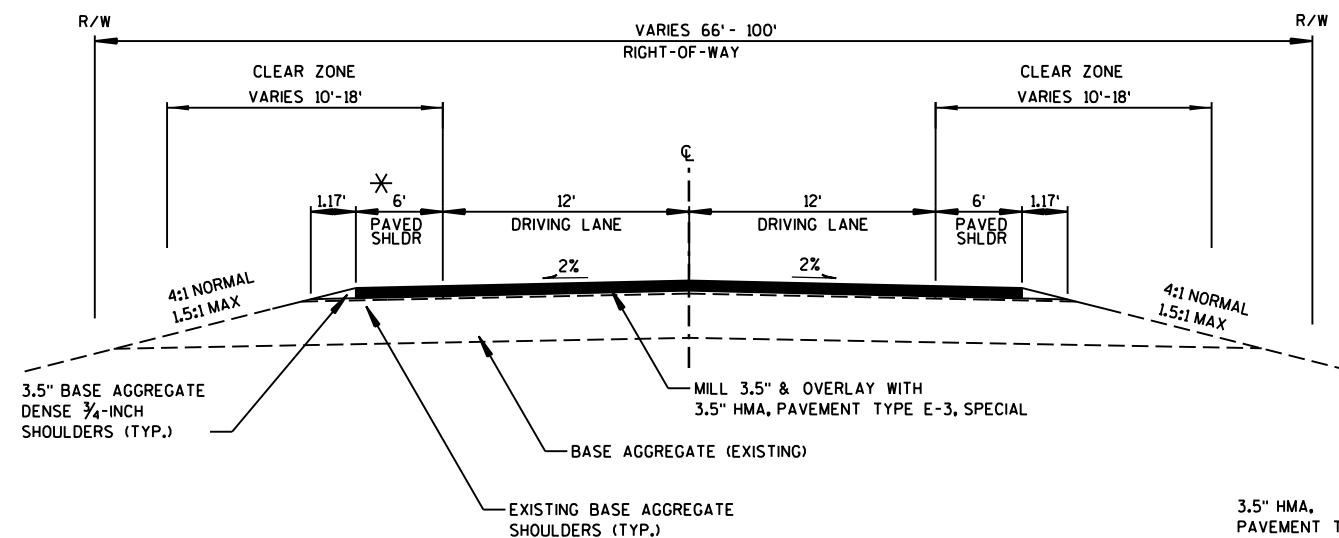
STATION 253+45 - STATION 281+20

(A) APPROX. EXISTING SIDEWALK LOCATIONS:

STA. 250+83 - STA. 281+20 LEFT
STA. 257+00 - STA. 281+20 RIGHT

(B) APPROX. EXISTING CURB AND GUTTER LOCATIONS:

STA. 253+70 - STA. 281+20 LEFT
STA. 253+45 - STA. 281+20 RIGHT

**TYPICAL FINISHED SECTION**

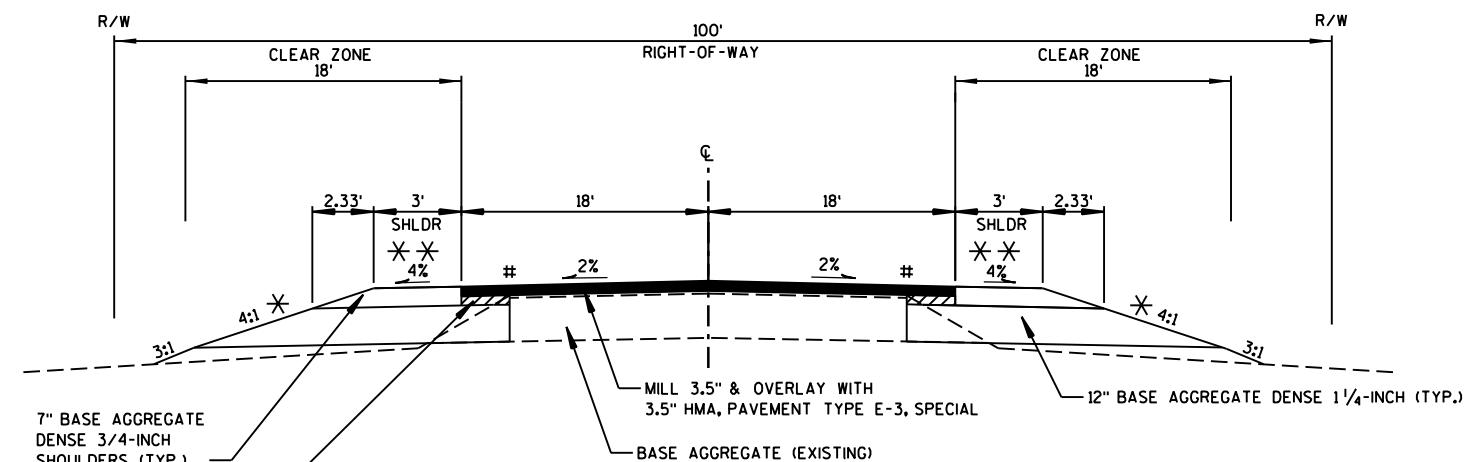
STH 121

STA. 3+99 - STA. 44+00

* - SHOULDER WIDTH TO MATCH EXISTING WIDTH, VARIES FROM 3' TO 6'
STA. 7+20 - STA. 11+75

3.5" HMA, PAVEMENT TYPE E-3, SPECIAL. PLACE WITH MAIN LINE ASPHALT

3.5" HMA, PAVEMENT TYPE E-3, SPECIAL. TO BE PLACED IN 2 - 1 3/4" LAYERS UNLESS ENGINEER DIRECT OTHERWISE.

**WIDENING PAVEMENT
DETAIL TYPICAL****TYPICAL FINISHED SECTION**

STH 121

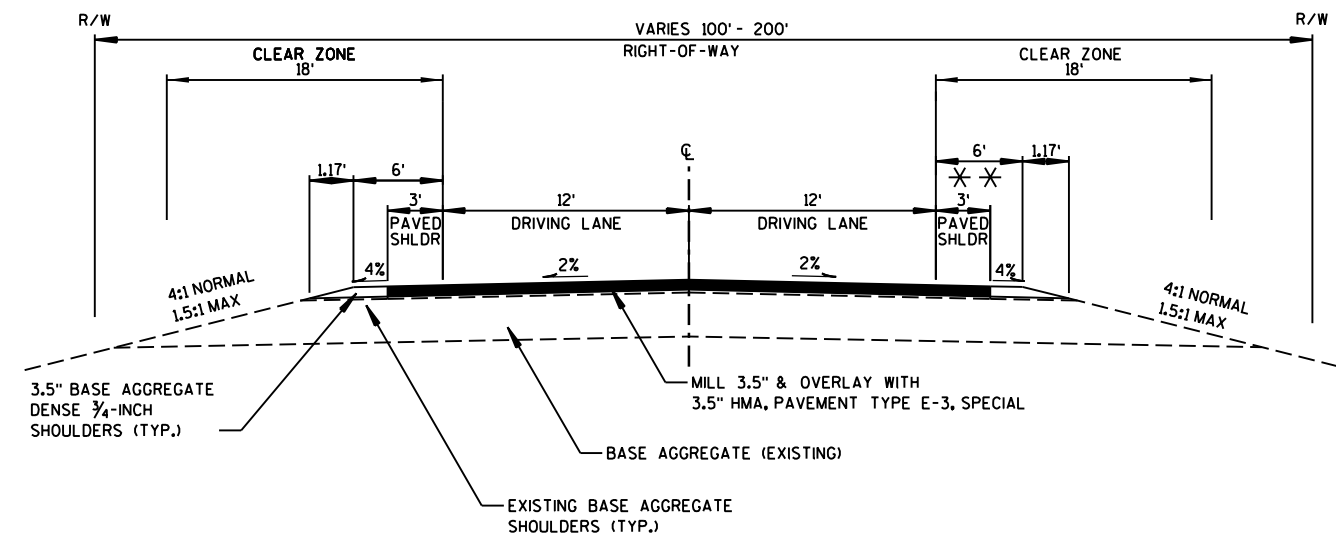
STA. 231+95 - STA. 245+50

STA. 251+30 - STA. 253+70

* - FERTILIZER TYPE B, SEEDING MIXTURE NO. 20 AND SEEDING TEMPORARY REQUIRED.

** - MATCH EXISTING PAVEMENT WIDTH WITH O' GRAVEL SHOULDER
STA. 235+25 - STA. 238+50 RT
STA. 238+00 - STA. 245+50 LT
STA. 242+50 - STA. 245+50 RT

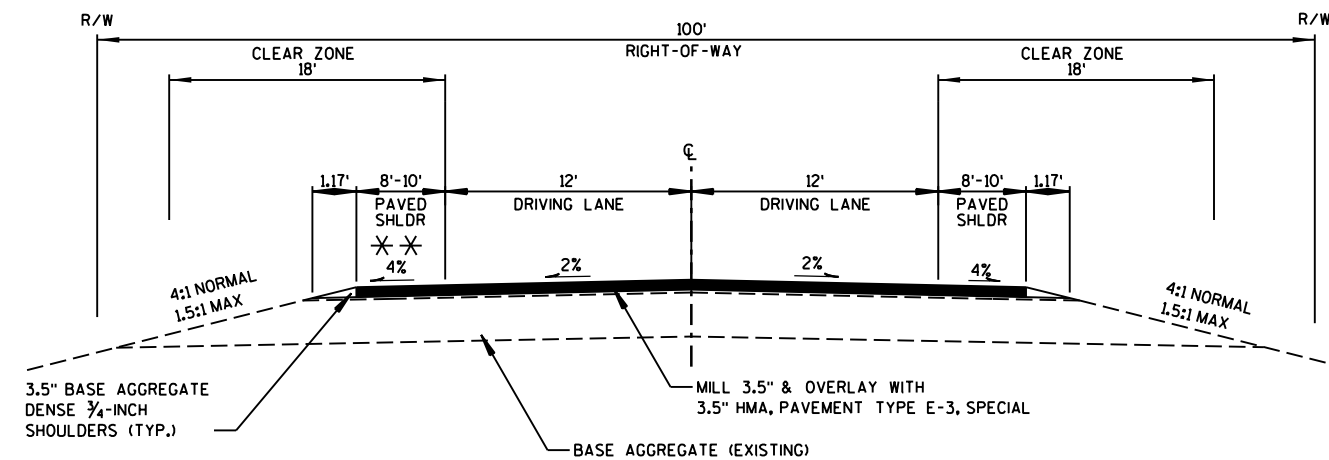
- EDGE OF EXISTING ASPHALT

**TYPICAL FINISHED SECTION**

STH 121

STA. 44+00 - STA. 231+95

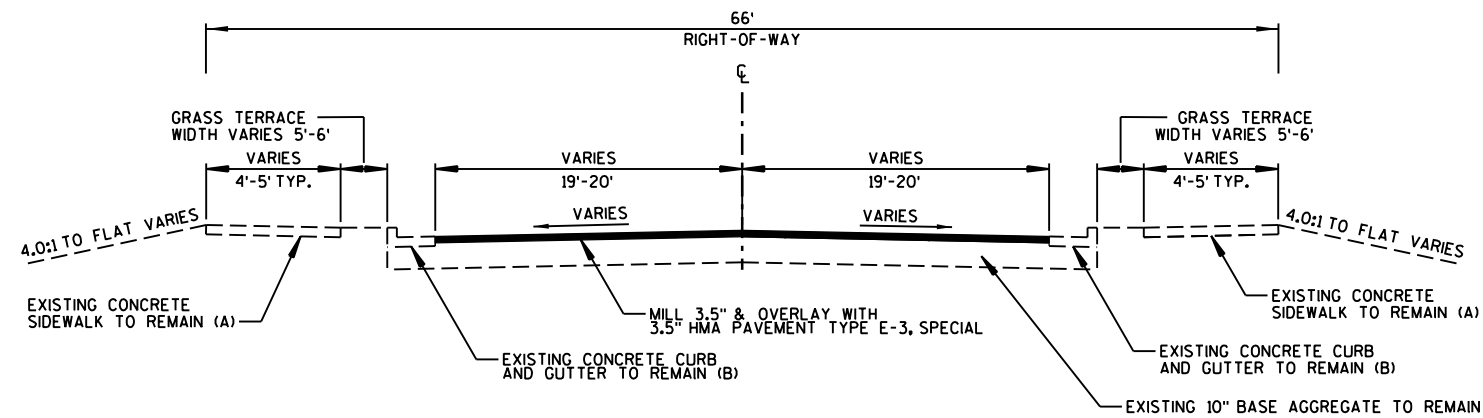
** - 6' PAVED AND O' GRAVEL SHOULDER STA. 161+72 - STA. 172+00 RT

**TYPICAL FINISHED SECTION**

STH 121

STA. 245+50 - STA. 251+30

** - 8' PAVED AND 3' GRAVEL SHOULDER STA. 246+68 - STA. 250+00 LT



TYPICAL FINISHED SECTION

STH 121

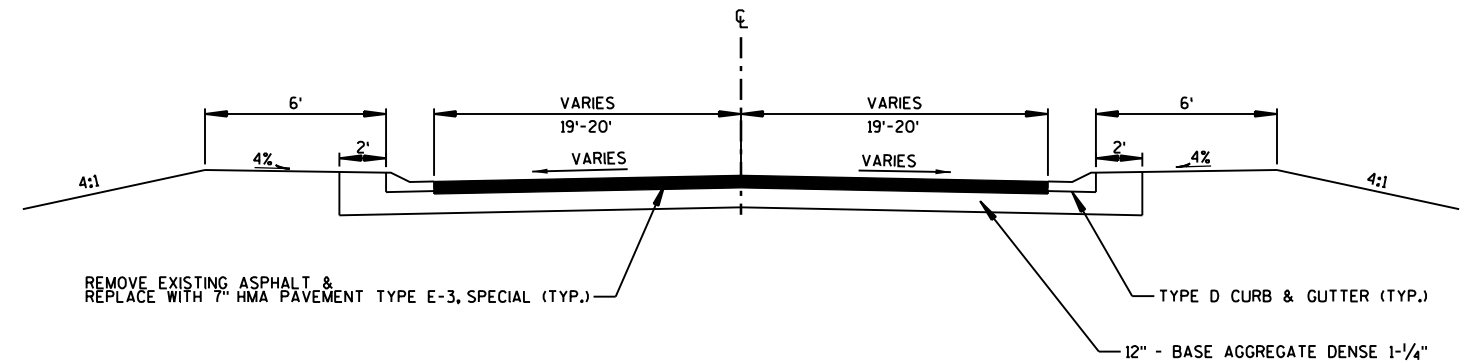
STA. 253+45 - STA. 281+42

(A) APPROX. EXISTING SIDEWALK LOCATIONS:

STA. 250+83 - STA. 281+20 LEFT
STA. 257+00 - STA. 281+20 RIGHT

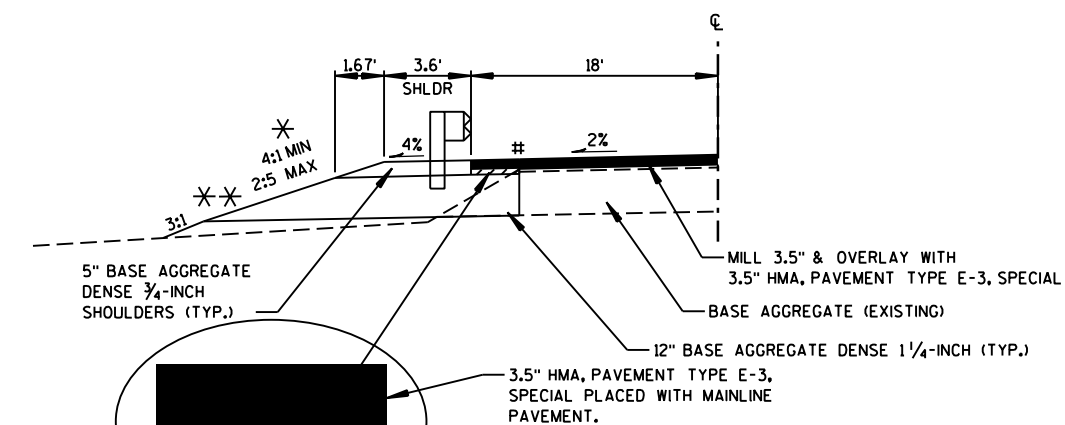
(B) APPROX. EXISTING CURB AND GUTTER LOCATIONS:

STA. 253+70 - STA. 281+20 LEFT
STA. 253+45 - STA. 281+20 RIGHT



TYPICAL FINISHED SECTION

TOWER DRIVE



TYPICAL BEAM GUARD FINISHED SECTION

STH 121

1.5" HMA PAVEMENT TYPE E-3,
SPECIAL

* - FERTILIZER TYPE B, SEEDING MIXTURE NO. 20 AND SEEDING TEMPORARY REQUIRED.

* * - SLOPES TO FOLLOW SDD 14B24a AND CROSS SECTIONS.

- EDGE OF EXISTING ASPHALT

CURVE #1 (e=5.3%, T=142, L=103)			
STATION	LEFT	RIGHT	DESCRIPTION
7+84	NC	NC	NORMAL CROWN
8+23	0.0	-2.0	0% SUPER
8+62	2.0	-2.0	REVERSE CROWN
9+26	5.3	-5.3	FULL SUPER
10+41	5.3	-5.3	FULL SUPER
11+16	2.0	-2.0	REVERSE CROWN
11+55	0.0	-2.0	0% SUPER
11+94	NC	NC	NORMAL CROWN

CURVE #4 STA 113+48 to 127+38
Normal crown no Super elevation

CURVE #8 STA 251+48 to 257+00
Match existing super elevation transitions

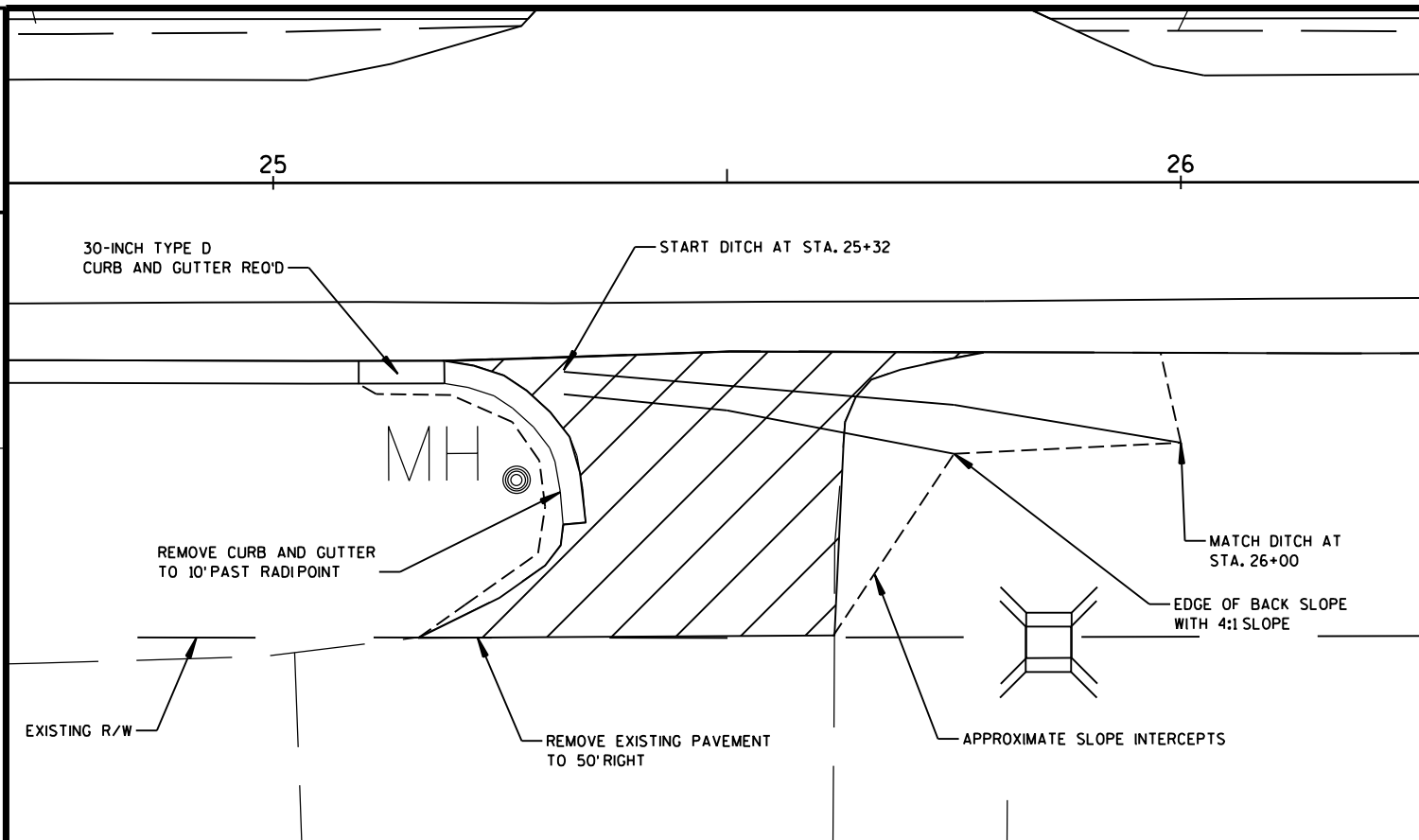
CURVE #2 STA 62+67 to 70+13
Match existing super elevation transitions

CURVE #5 (e=2.4%, T=112, L=61)			
STATION	LEFT	RIGHT	DESCRIPTION
163+93	NC	NC	NORMAL CROWN
164+46	0.0	-2.0	0% SUPER
164+99	2.0	-2.0	REVERSE CROWN
165+18	2.7	-2.7	FULL SUPER
175+97	2.7	-2.7	FULL SUPER
176+20	2.0	-2.0	REVERSE CROWN
176+73	0.0	-2.0	0% SUPER
177+26	NC	NC	NORMAL CROWN

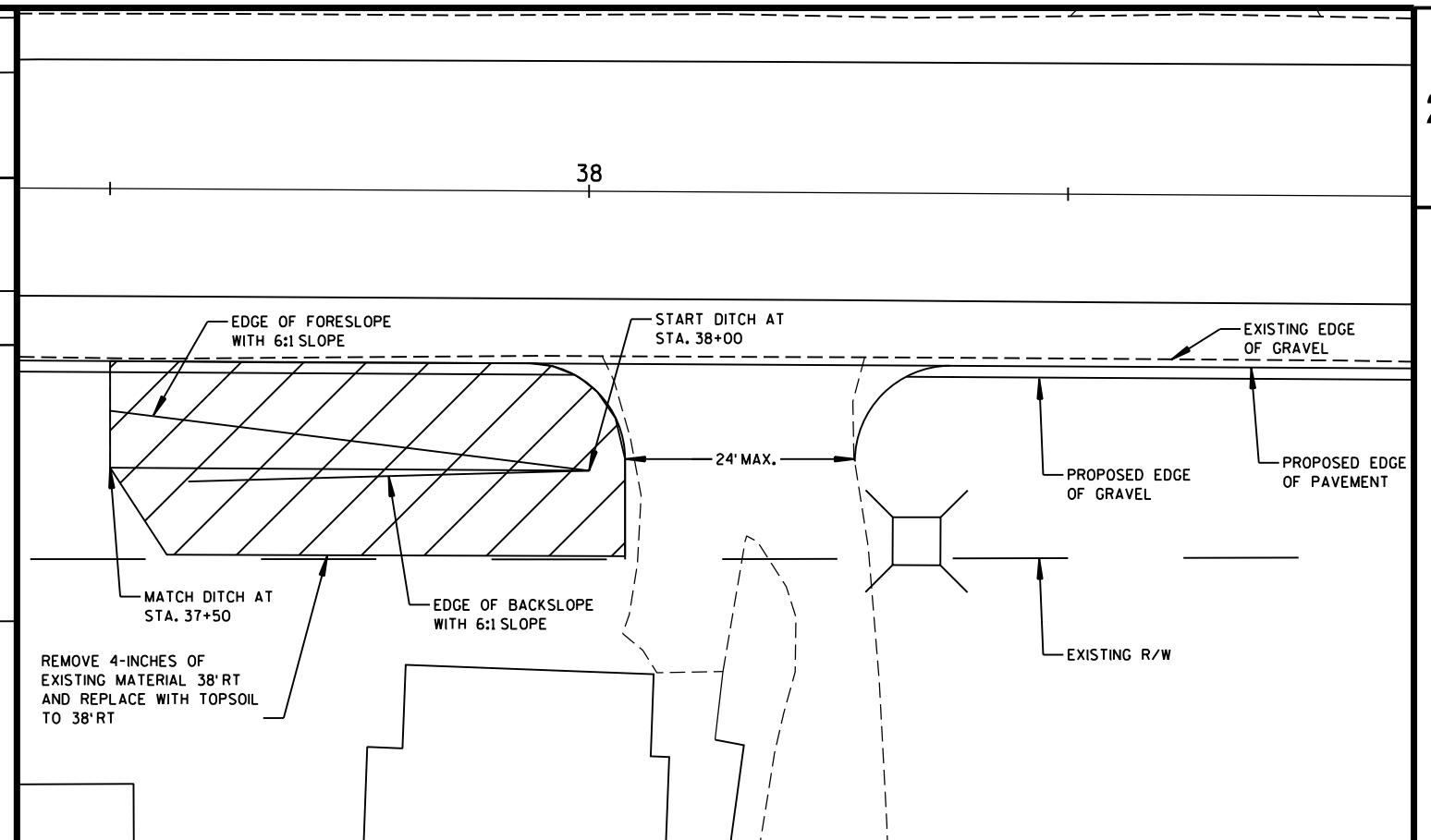
CURVE #3 STA 77+81 to 88+18
Normal crown no Super elevation

CURVE #6 & #7 STA 215+00 to 222+83 Match existing super transitions except as shown below.			
STATION	LEFT	RIGHT	DESCRIPTION
216+87	*	*	Match existing
217+87	5	-5	
218+87	7.6	-7.6	
219+87	8.0	-8.0	
220+87	8.0	-8.0	
221+87	6.5	-6.5	
222+87	*	*	Match existing

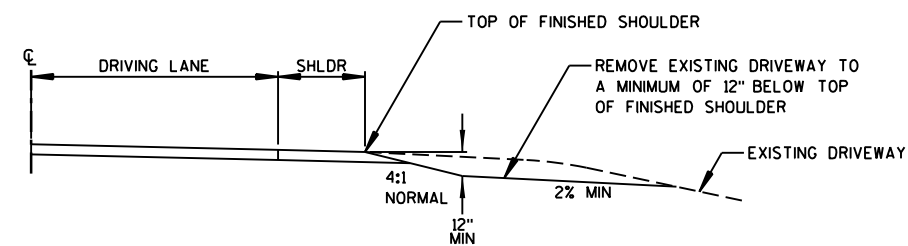
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**DRIVEWAY REMOVAL DETAIL**PLAN VIEW
STA. 25+50 RIGHTNOTE: PAID FOR UNDER SPV.0060.02 GRADING SHAPING, FINISHING DRIVEWAY REMOVAL.
CURB AND GUTTER ITEMS AND PAVEMENT REMOVAL PAID UNDER SEPERATE BID ITEMS.

2

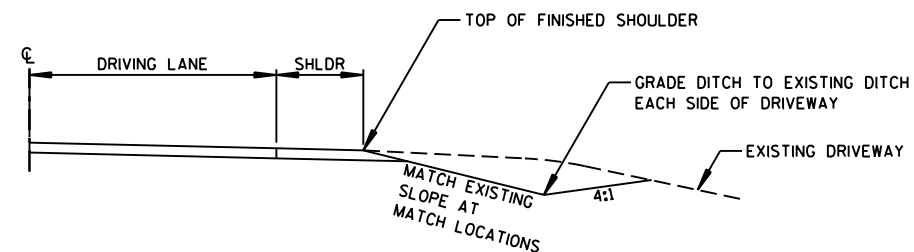
**DRIVEWAY REMOVAL DETAIL**PLAN VIEW
STA. 38+05 RIGHT

NOTE: PAID FOR UNDER SPV.0060.02 GRADING SHAPING, FINISHING DRIVEWAY REMOVAL.

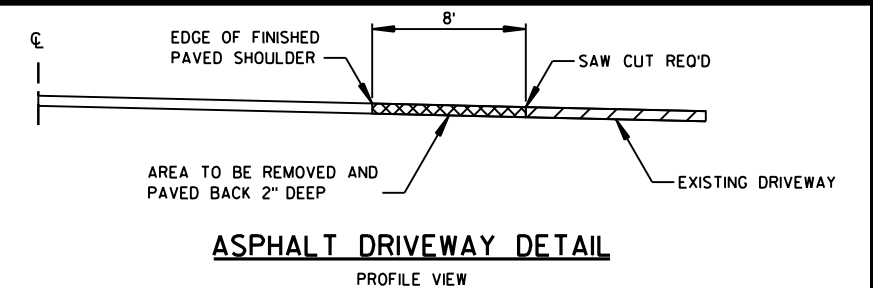
**DRIVEWAY REMOVAL DETAIL**

PROFILE VIEW

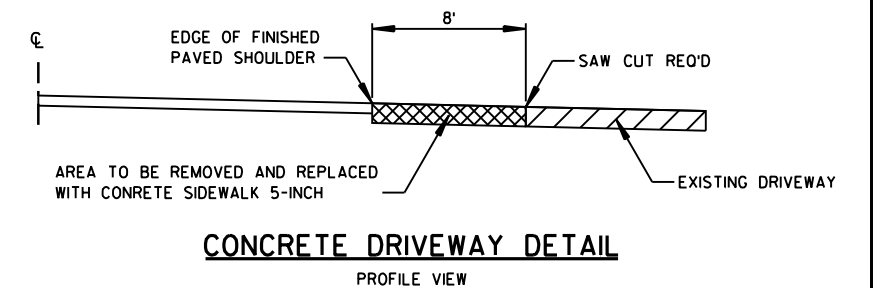
STA. 21+92 LEFT, 39+74 LEFT, 208+09 LEFT, 224+65 LEFT

NOTE: PAID FOR UNDER SPV.0060.02 GRADING SHAPING,
FINISHING DRIVEWAY REMOVAL.**DRIVEWAY REMOVAL DETAIL**

PROFILE VIEW

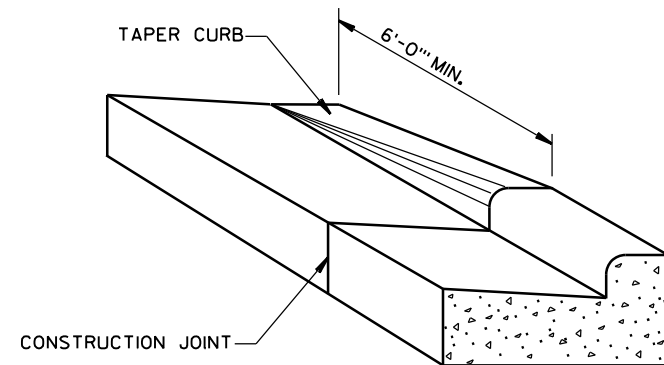
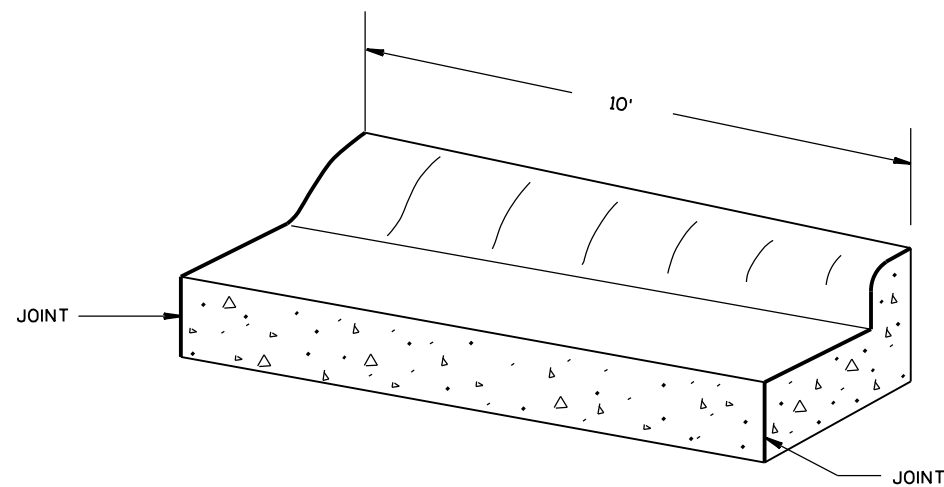
STA. 30+03 RIGHT, 42+05 LEFT, 51+85 RIGHT, 60+38 RIGHT,
63+45 LEFT, 184+15 RIGHT, 184+68 RIGHT, 221+29 RIGHTNOTE: PAID FOR UNDER SPV.0060.02 GRADING SHAPING,
FINISHING DRIVEWAY REMOVAL.**ASPHALT DRIVEWAY DETAIL**

PROFILE VIEW

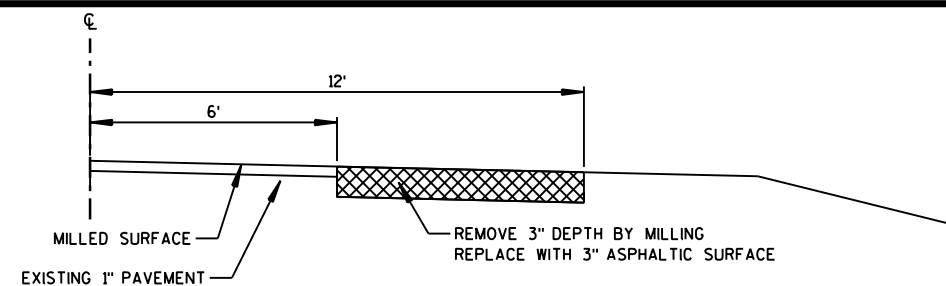
**CONCRETE DRIVEWAY DETAIL**

PROFILE VIEW

2

**DETAIL OF CURB & GUTTER TERMINI****TRANSITION DETAIL**

CONCRETE CURB & GUTTER 6" SLOPED 36" TYPE D
TO CONCRETE CURB & GUTTER 30" TYPE D
(TO BE MEASURED & PAID FOR AS CONCRETE C & G 6 " SLOPED 36" TYPE D)

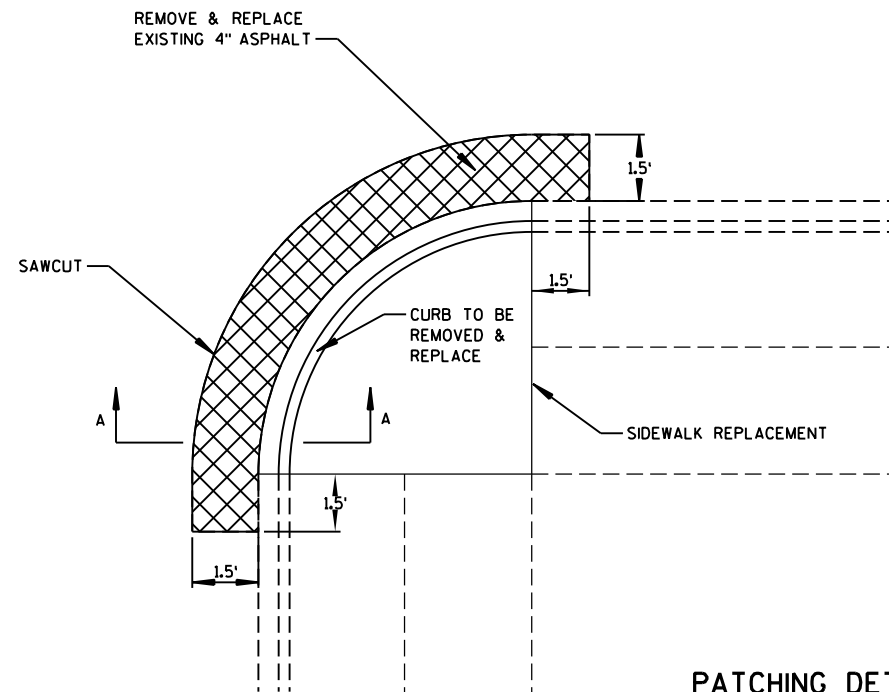
**HMA LANE REPAIR DETAIL**

NOTE: MILLED AREAS SHALL BE REPAVED SAME DAY AS BEING REMOVED.
THE ASPHALTIC SURFACE MAY BE PLACED IN ONE LIFT.

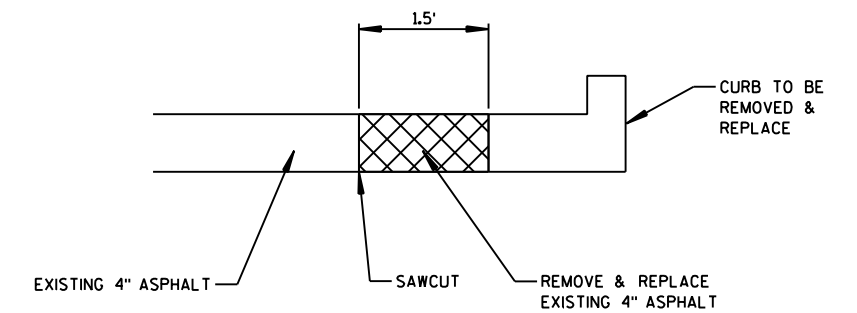
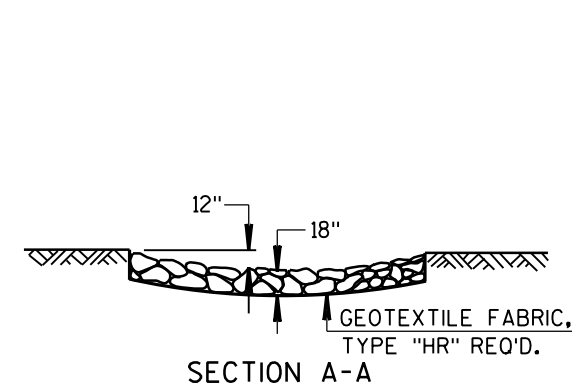
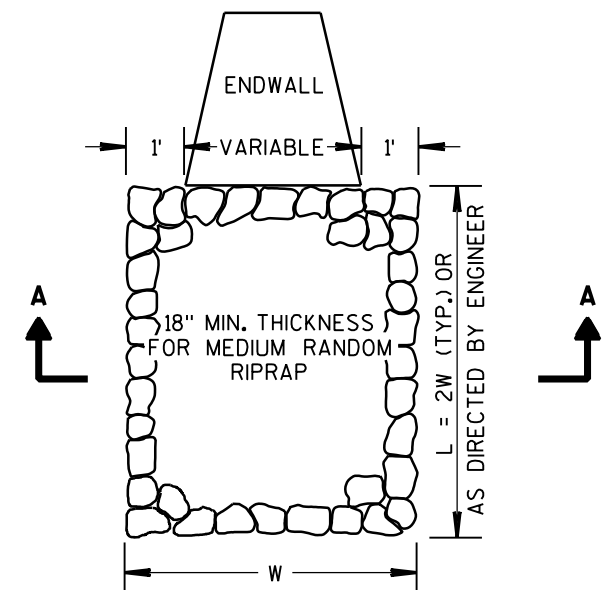
PAID FOR UNDER SPV.0090.01 SPECIAL LANE REPAIR

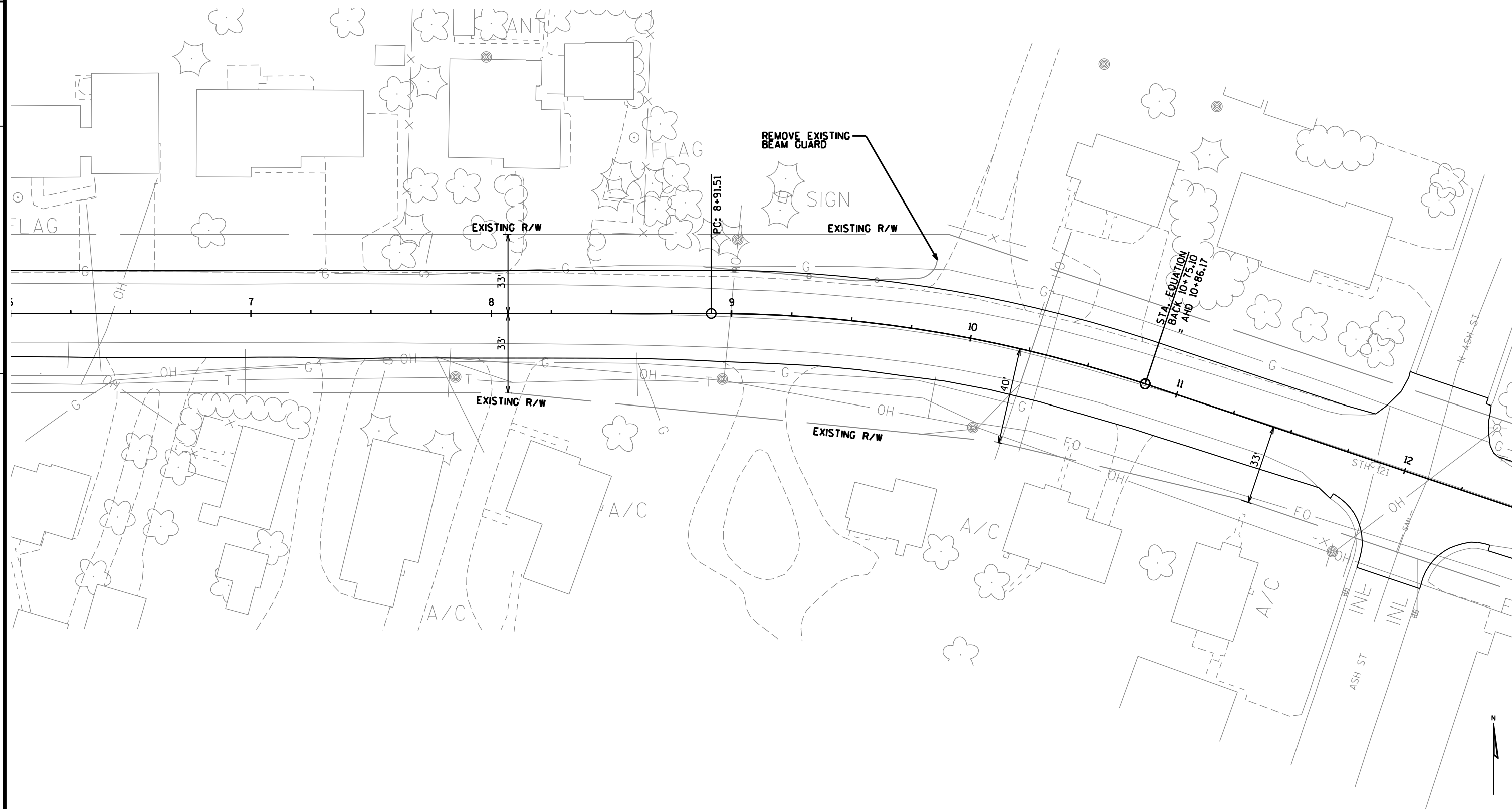
LOCATIONS TO BE DETERMINED BY ENGINEER.

2

**PLAN VIEW****PATCHING DETAIL AT CURB REMOVAL**

NOTE: PAID FOR UNDER 204.0120 REMOVING ASPHALTIC SURFACE
465.0110 ASPHALTIC SURFACE PATCHING
690.0150 SAWING ASPHALT

**SECTION A-A****SECTION A-A****MEDIUM RIPRAP TREATMENT AT CULVERTS**



PROJECT NO: 7505-00-71

HWY: STH 121

COUNTY: TREMPLEAU

BEAM GUARD DETAILS

SHEET

E

FILE NAME : P:\90s\93\00093136\CADD\Civil\SheetsPlan\Preliminary plans\021101_id.dgn

PLOT DATE : 4/24/2014

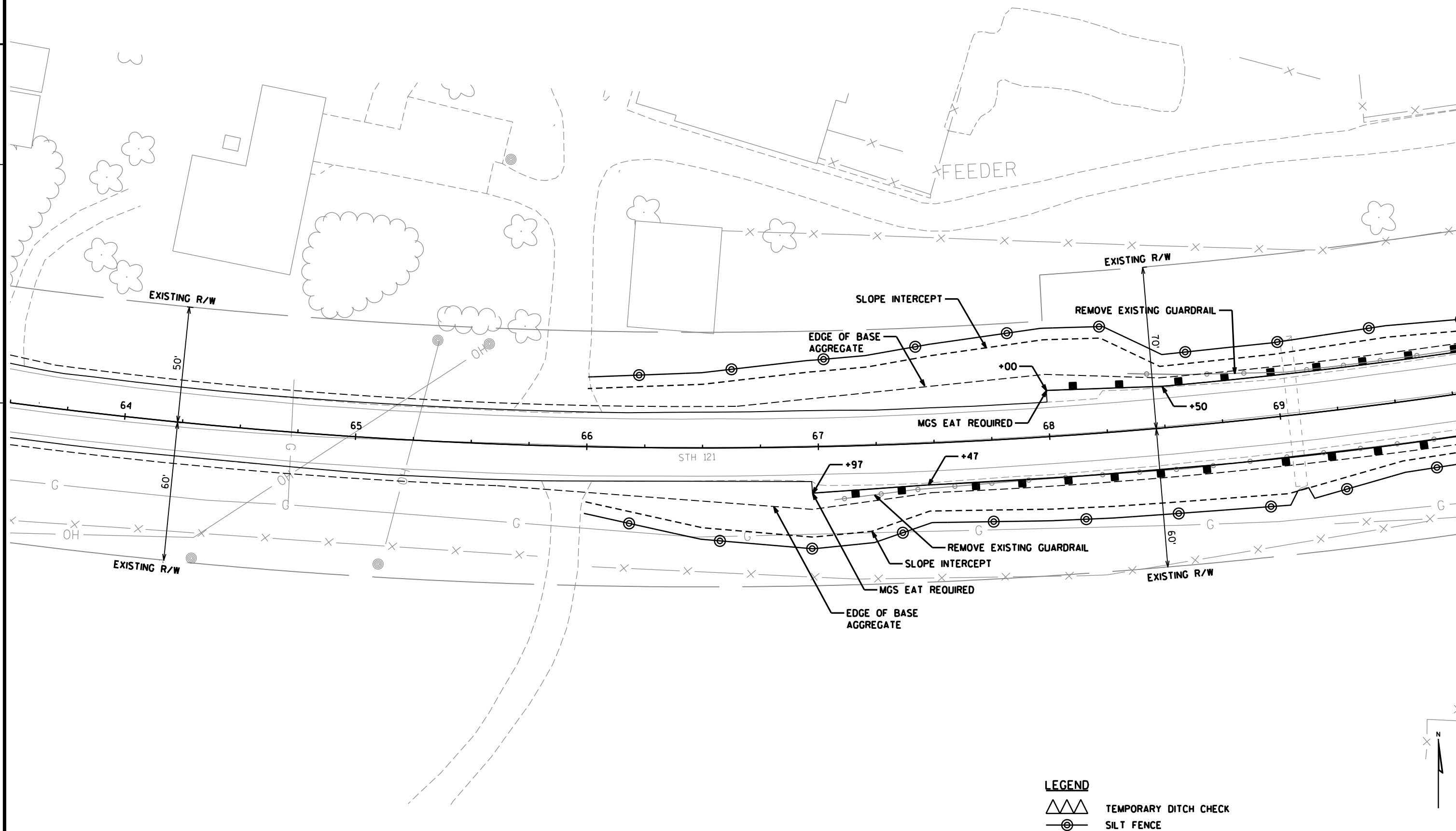
PLOT BY : psaeger

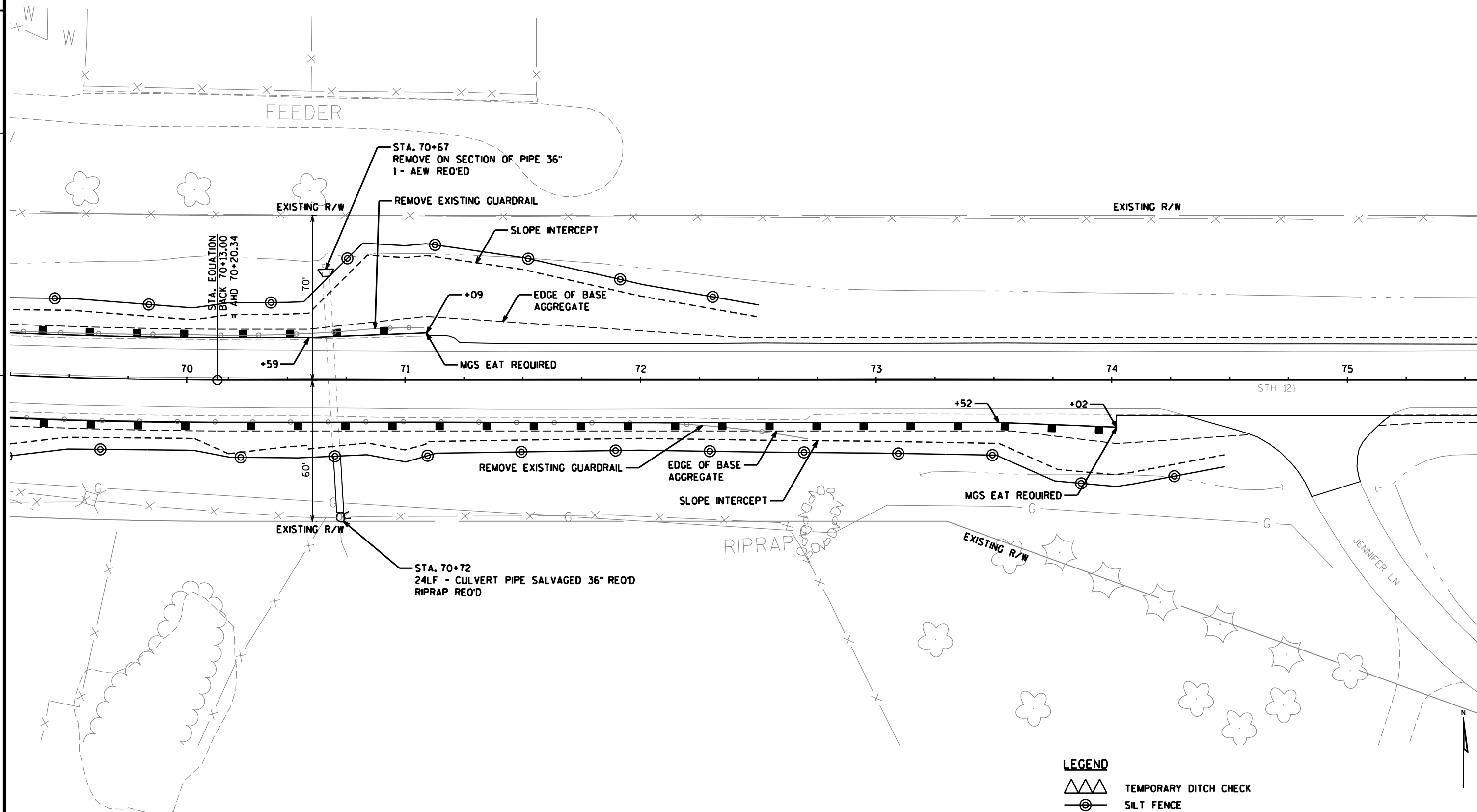
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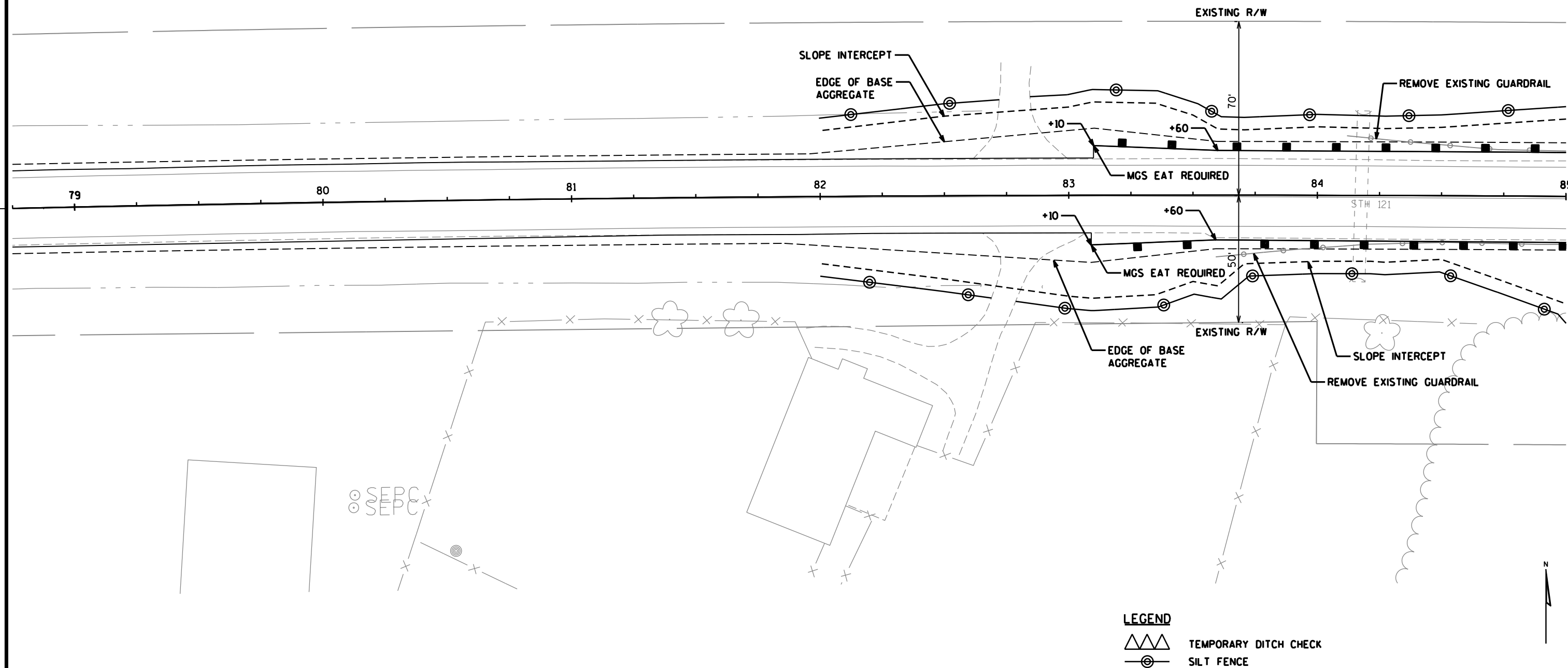
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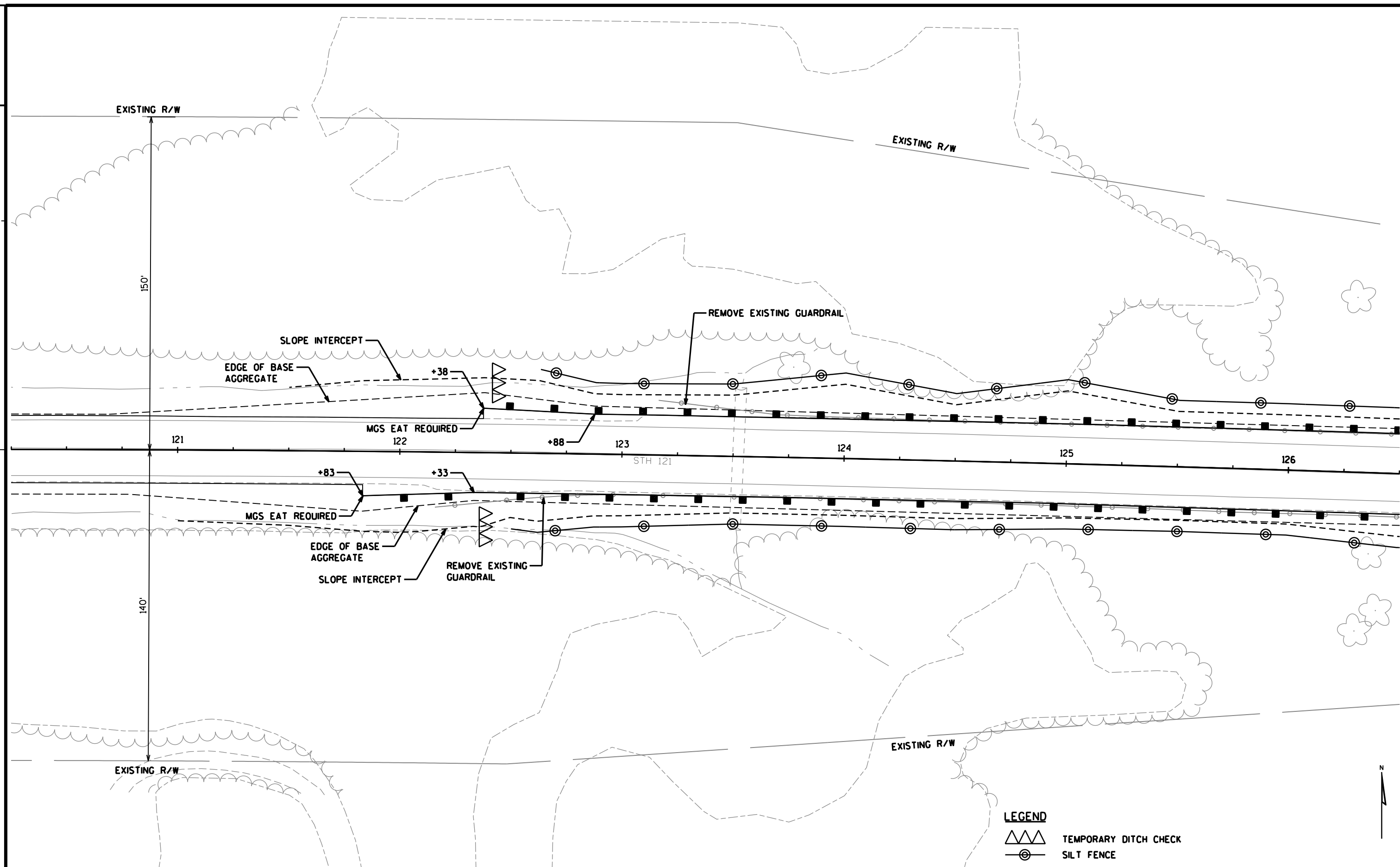
WISDOT/CADDs SHEET 42

021101_id.dgn 4/24/2014 11:24:14 AM psaeger









PROJECT NO: 7505-00-71

HWY: STH 121

COUNTY: TREMPEALEAU

BEAM GUARD DETAILS

SHEET

E

FILE NAME : P:\90s\93\00093136\CADD\Civil\SheetsPlan\Preliminary plans\021106_id.dgn

PLOT DATE : 4/24/2014

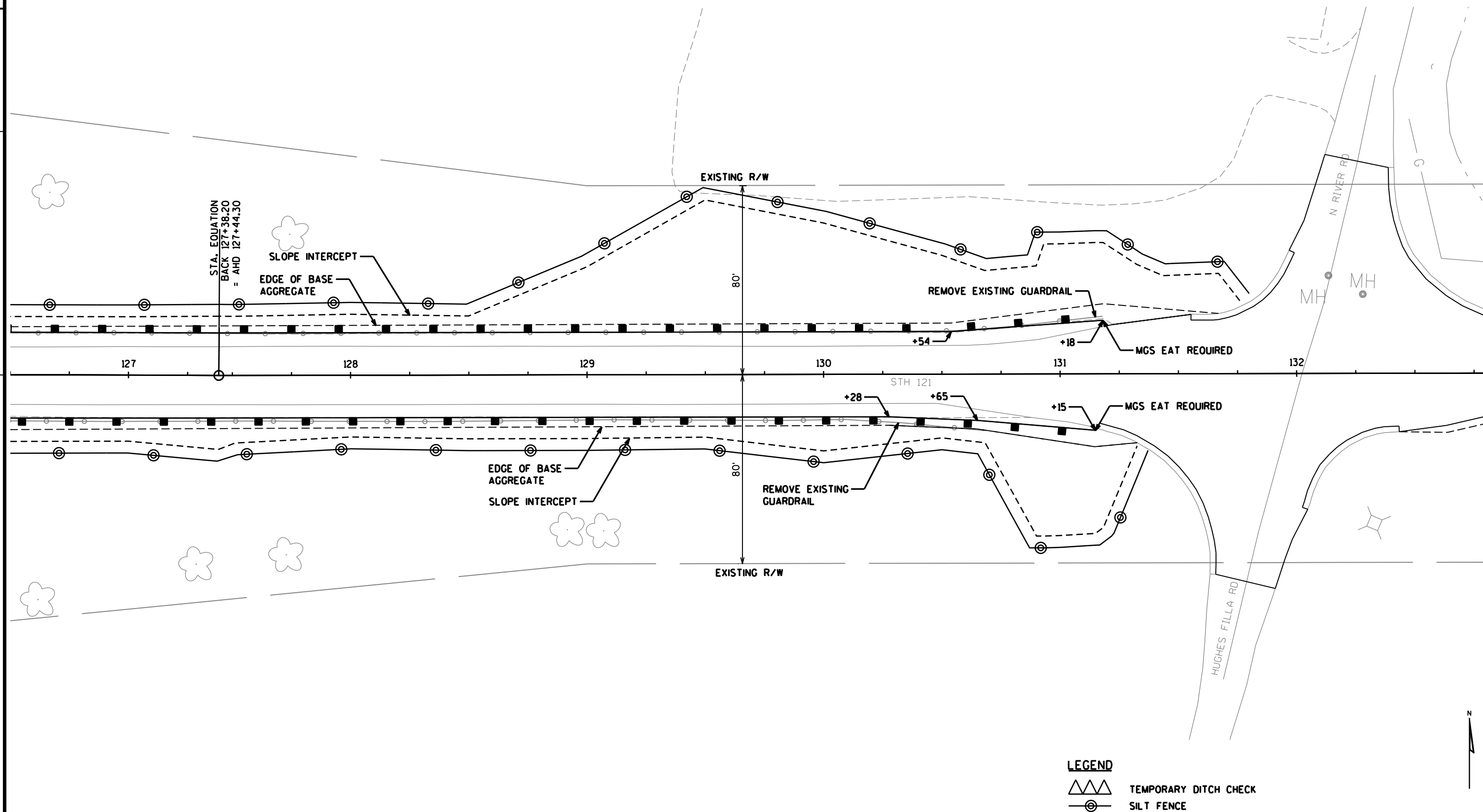
PLOT BY : psaegeer

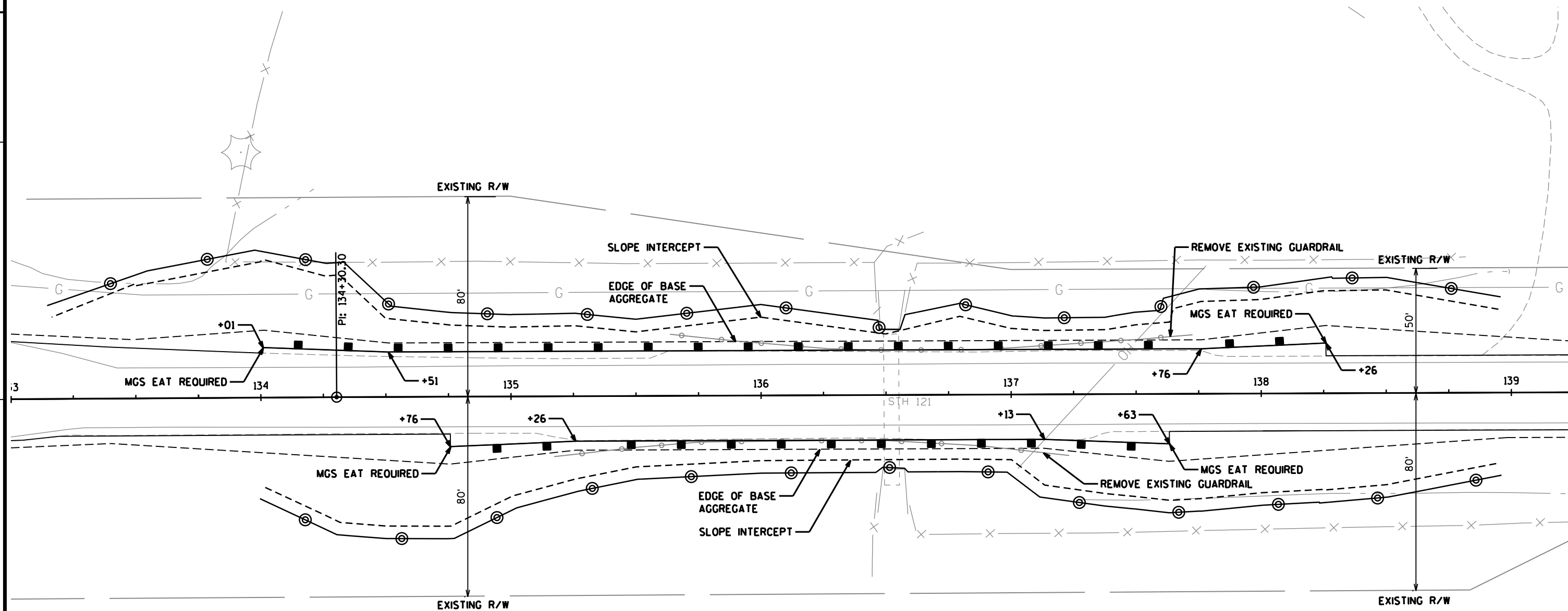
PLOT NAME :

PLOT SCALE : 1:40

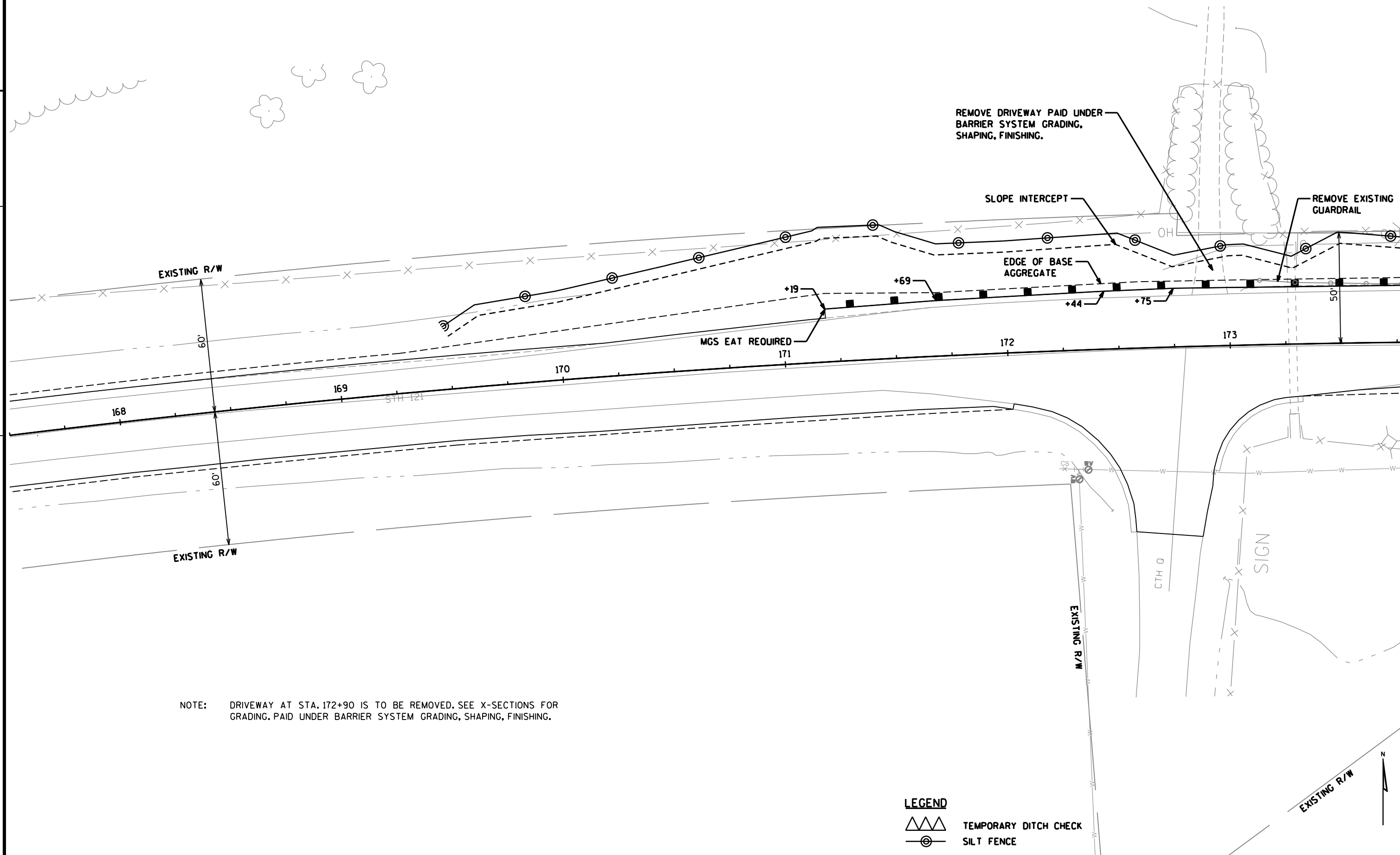
WISDOT/CADDs SHEET 42

021106_id.dgn 4/24/2014 11:24:21 AM psaegeer









PROJECT NO: 7505-00-71

HWY: STH 121

COUNTY: TREMPLEAU

BEAM GUARD DETAILS

SHEET

E

FILE NAME : P:\90s\93\00093136\CADD\Civil\SheetsPlan\Preliminary plans\021110_id.dgn

PLOT DATE : 7/9/2014

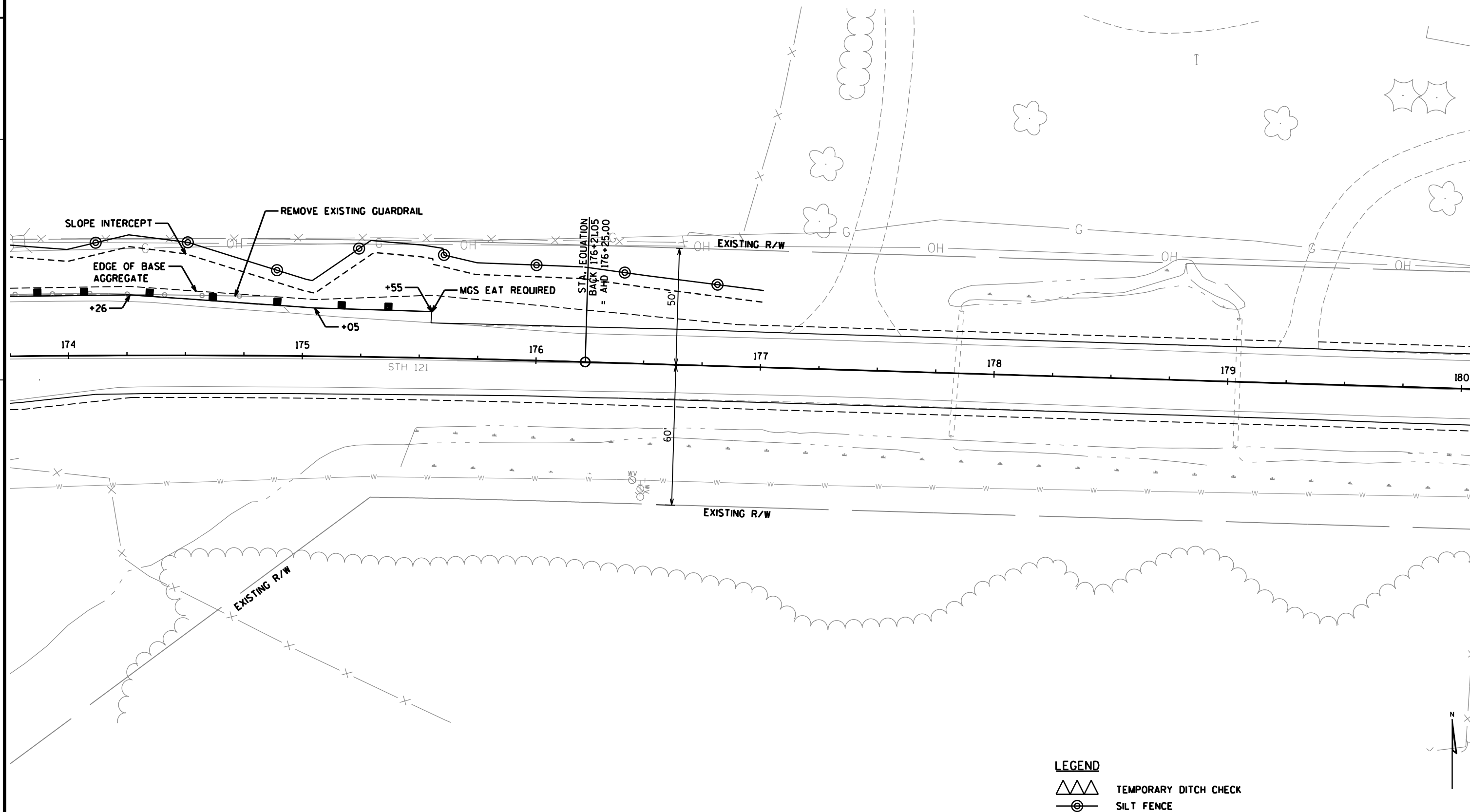
PLOT BY : dkatzner

PLOT NAME :

PLOT SCALE : 1:40

WISDOT/CADDs SHEET 42

021110_id.dgn 7/9/2014 12:37:03 PM dkatzner



PROJECT NO: 7505-00-71

HWY: STH 121

COUNTY: TREMPEALEAU

BEAM GUARD DETAILS

SHEET

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PLOT DATE : 4/28/2014

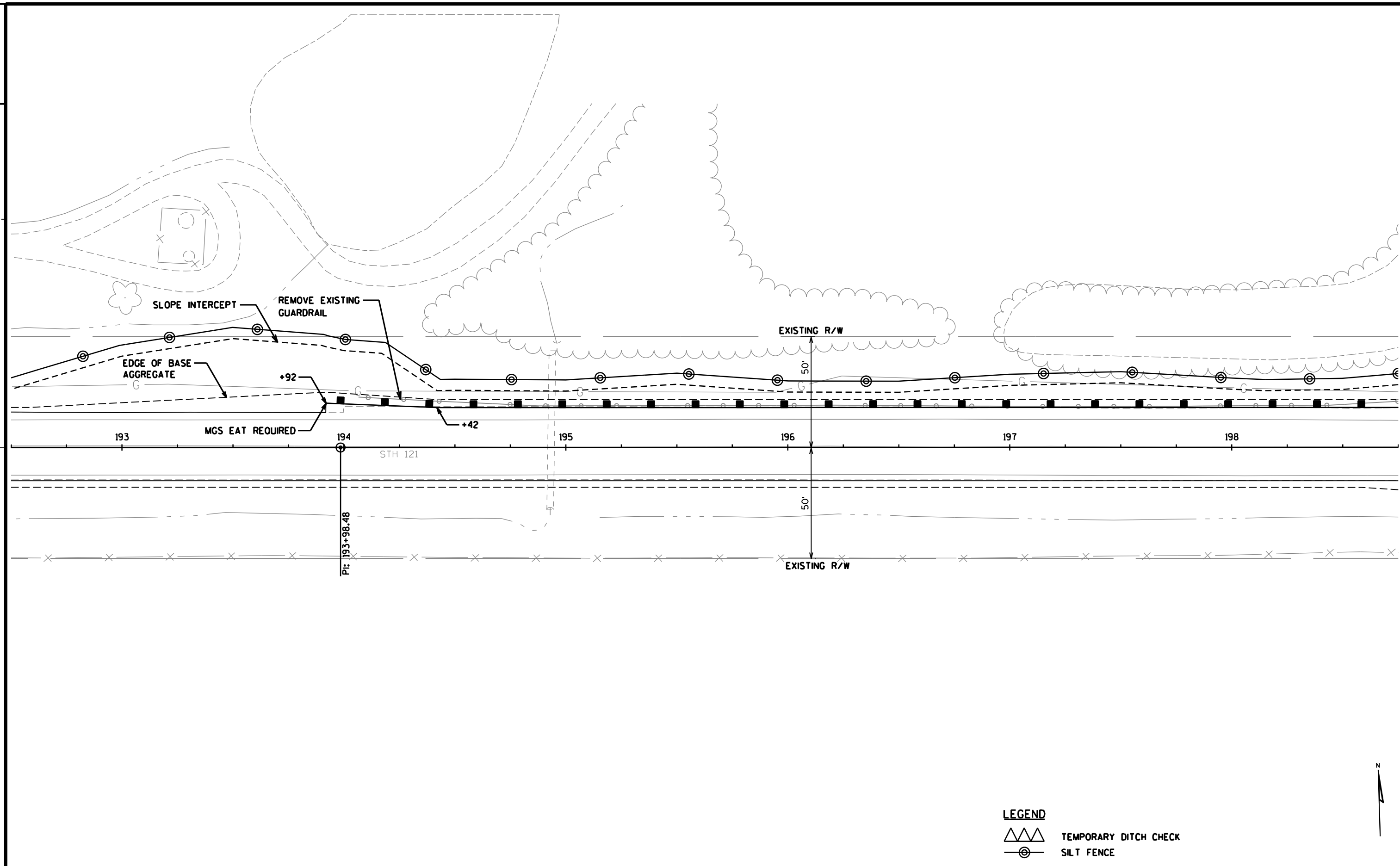
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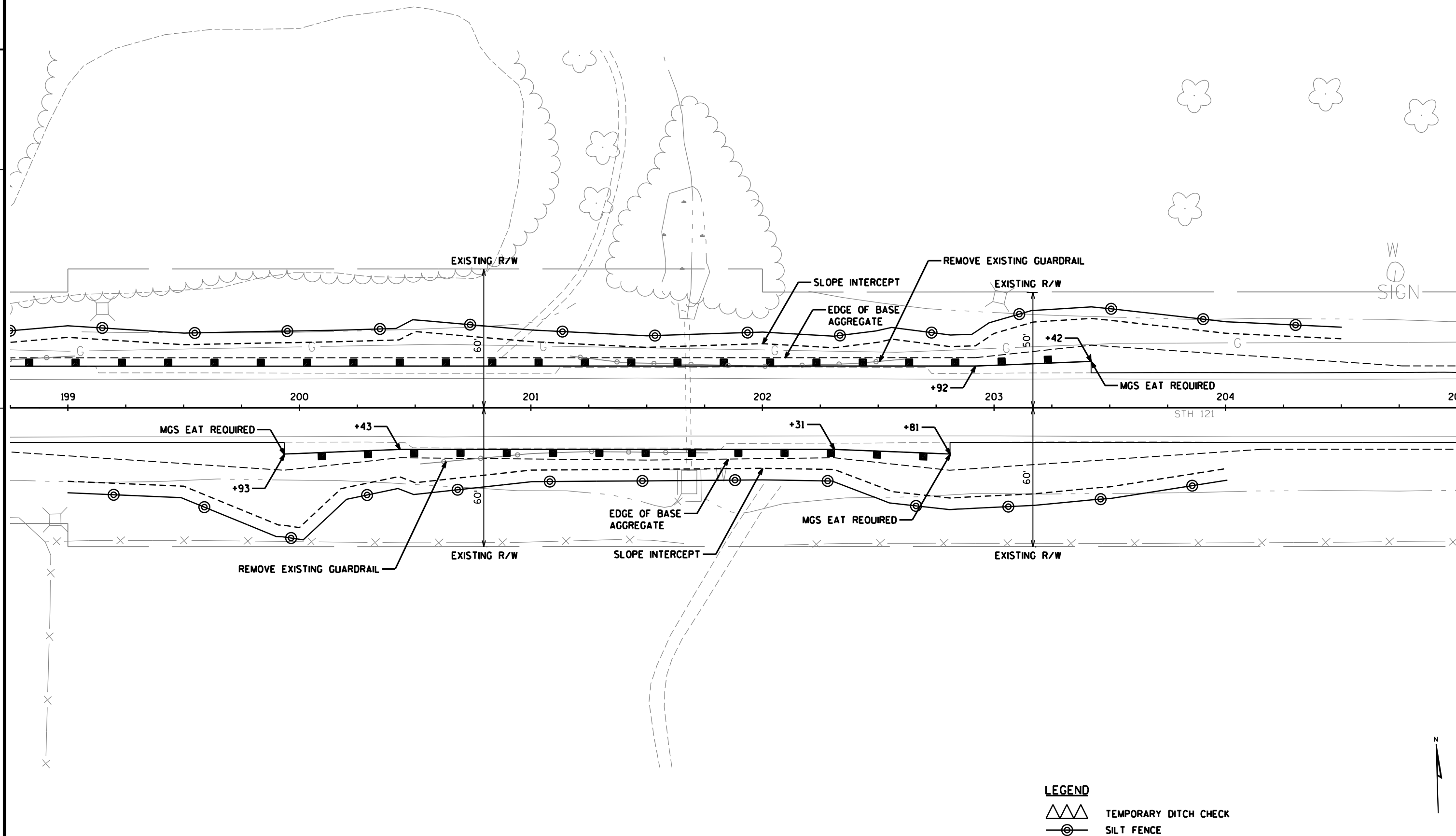
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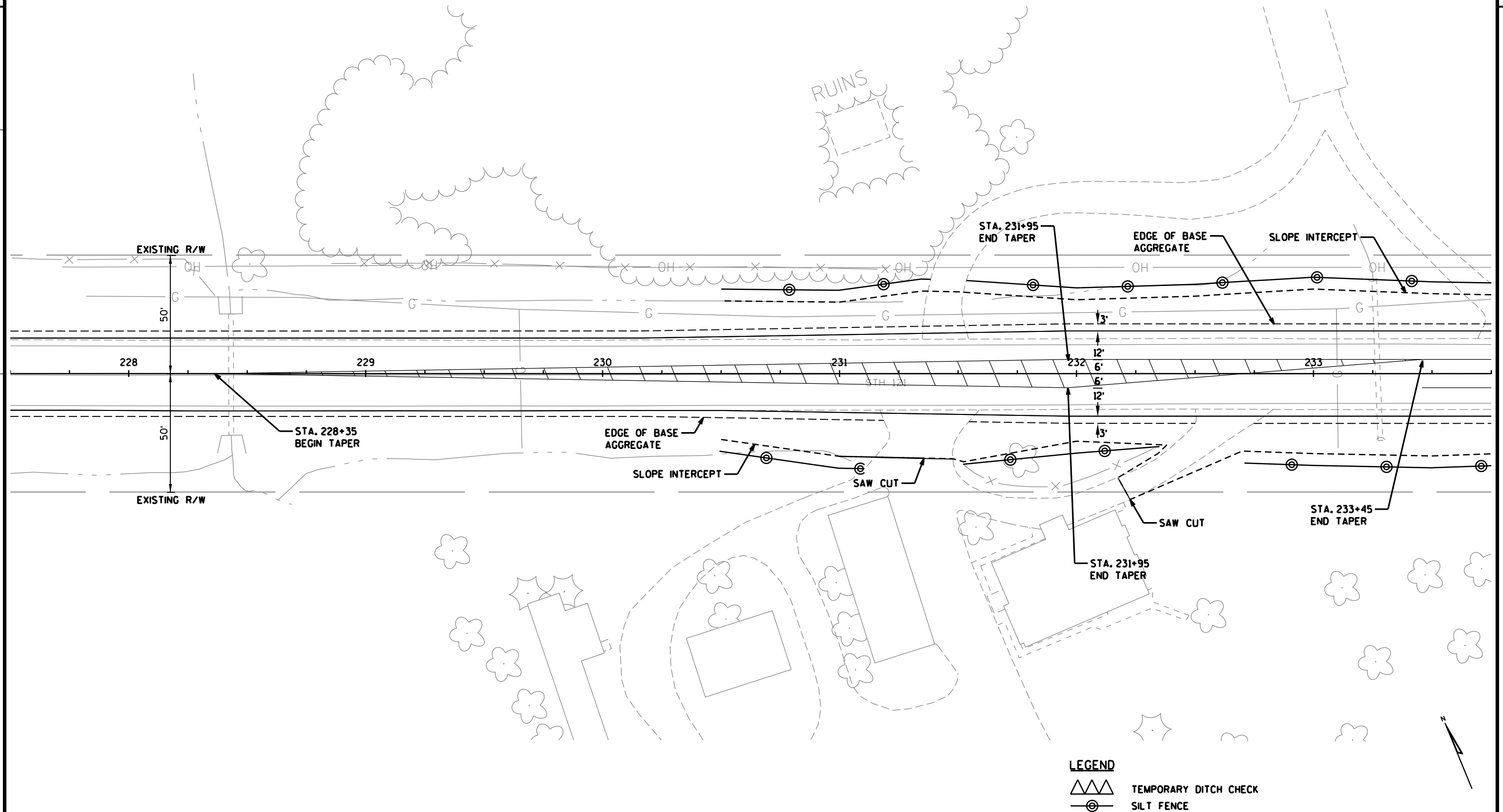
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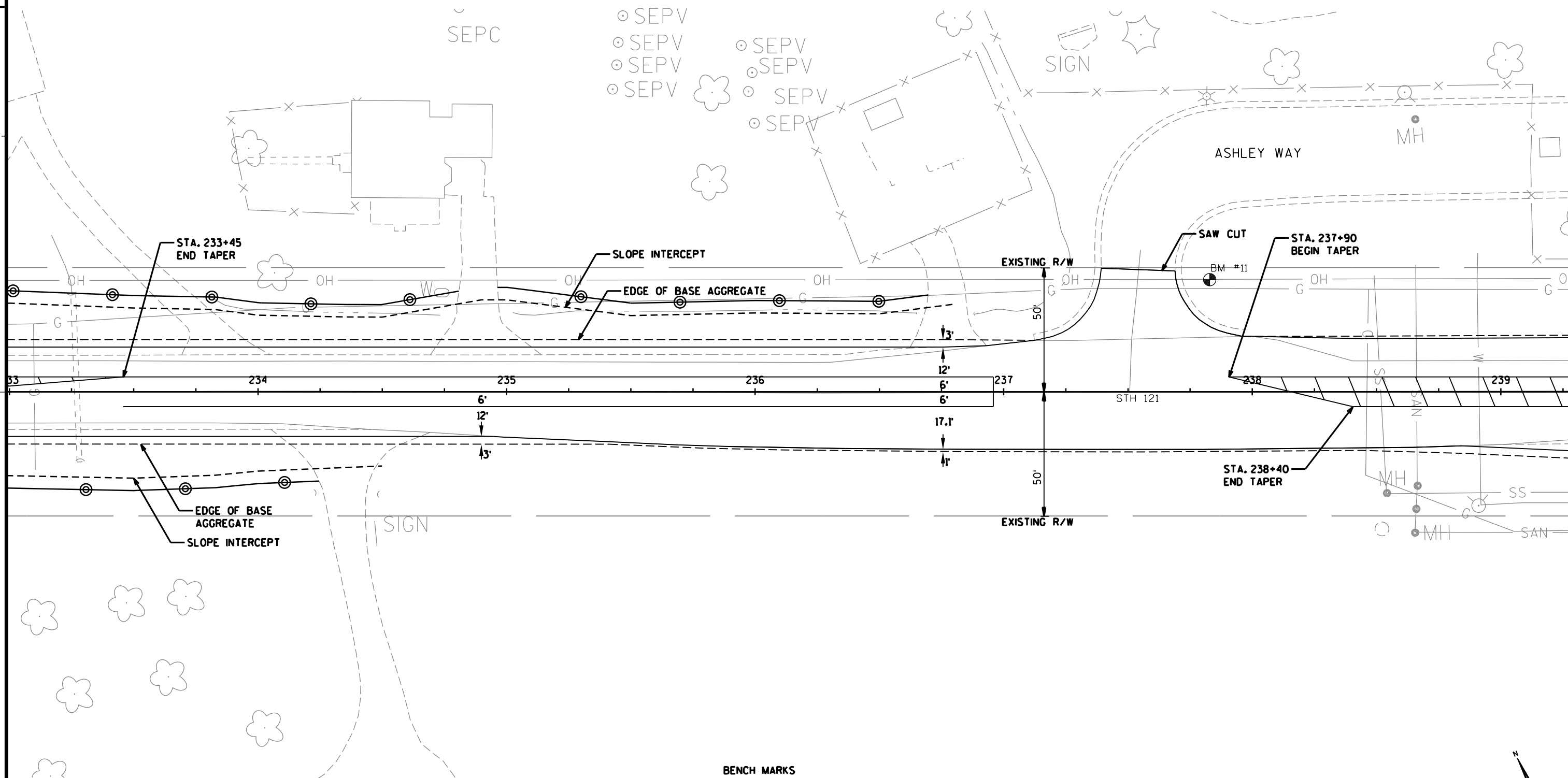
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021111_id.dgn 4/28/2014 8:45:21 AM psaegeer





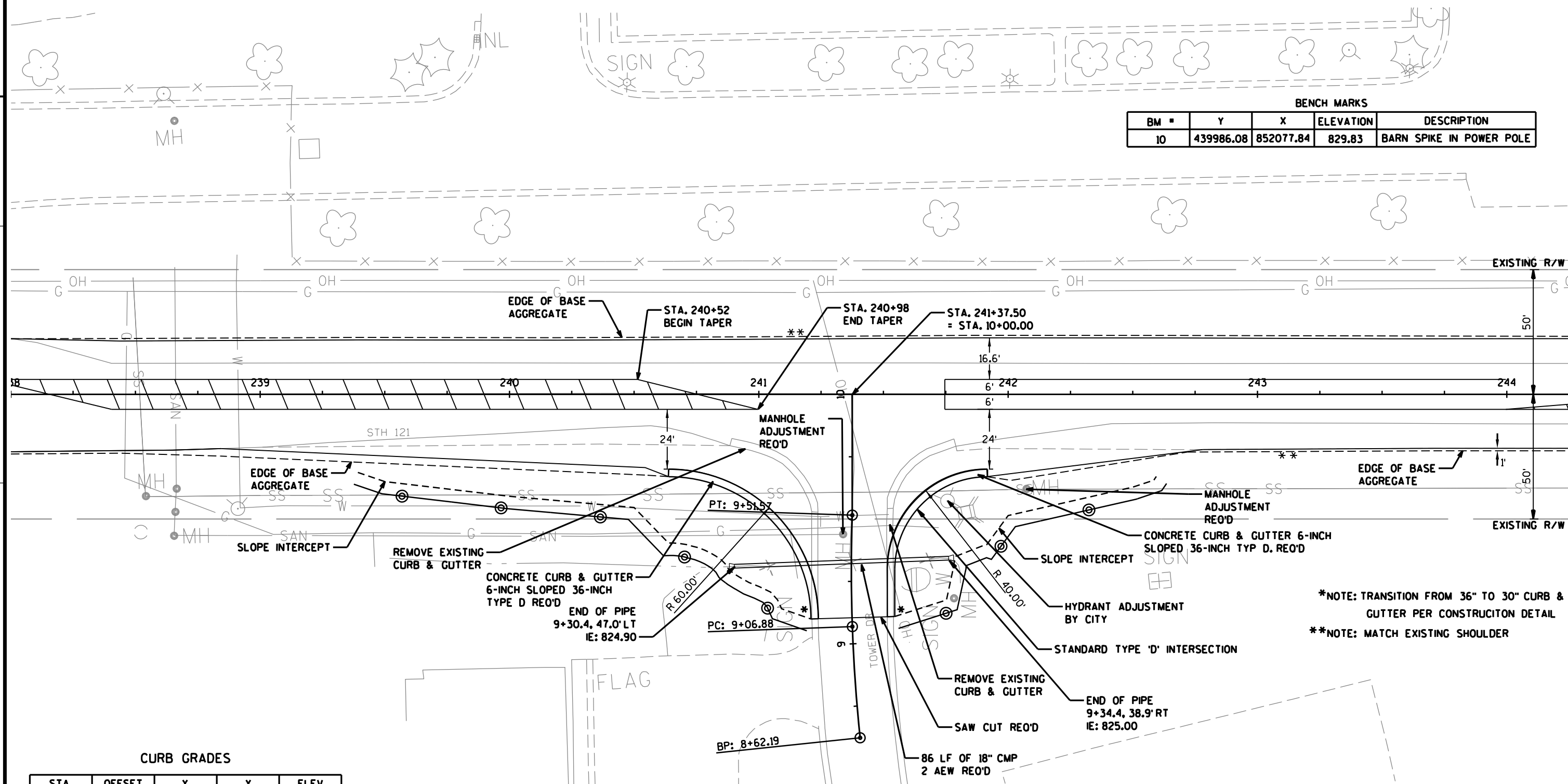




BENCH MARKS				
BM	Y	X	ELEVATION	DESCRIPTION
11	440412.15	851809.09	828.94	BARN SPIKE IN POWER POLE

LEGEND

- TEMPORARY DITCH CHECK
- SILT FENCE



BENCH MARKS				
BM #	Y	X	ELEVATION	DESCRIPTION
10	439986.08	852077.84	829.83	BARN SPIKE IN POWER POLE

CURB GRADES

STA.	OFFSET	Y	X	ELEV
240+63.8	30' RT	440234.01	852044.52	830.13
MID	-	440202.47	852076.80	829.63
240+63.8	90' RT	440178.52	852021.71	RAD PT
9+12	13.6' LT	440157.22	852077.80	829.23
9+12	14.3' RT	440147.32	852103.88	829.21
9+30.14	14.3' RT	440163.81	852110.41	829.30
MID	-	440180.60	852129.99	829.65
241+91.45	70' RT	440148.47	852147.37	RAD PT
241+91.45	30' RT	440185.47	852162.58	830.11

PAVEMENT GRADES

STA.	OFFSET	ELEV	Y	X
240+63.8	0' RT	830.74	440261.76	852055.93
241+37.51	0' RT	830.77	440233.73	852124.10
241+37.51	30' RT	830.14	440205.98	852112.70
241+91.45	0' RT	830.72	440213.21	852173.99
9+12	0' RT	829.36	440152.39	852090.51
9+30.14	0' RT	829.45	440169.26	852097.19

LEGEND

- TEMPORARY DITCH CHECK
 SILT FENCE

PROJECT NO: 7505-00-71

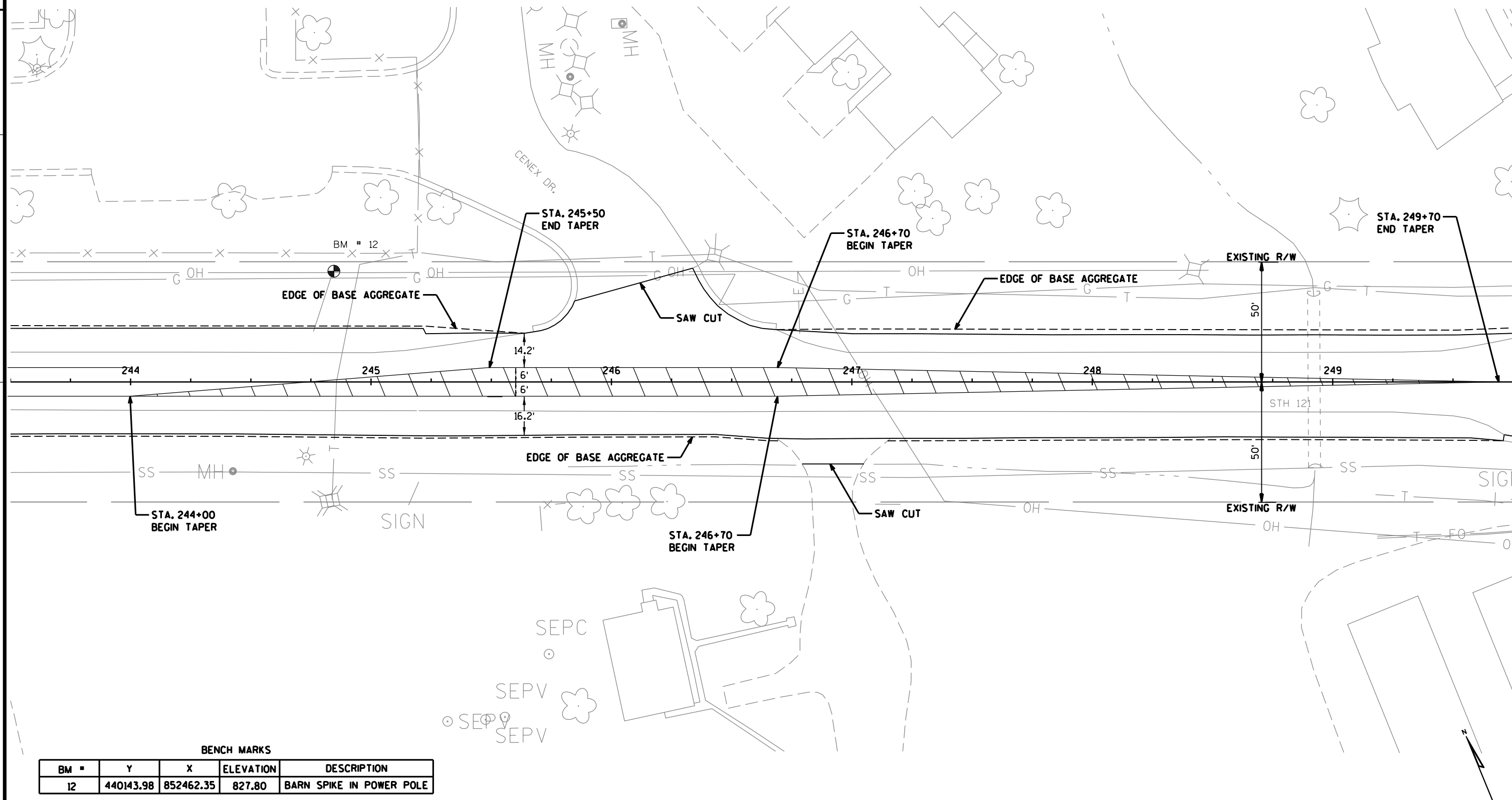
HWY: STH 121

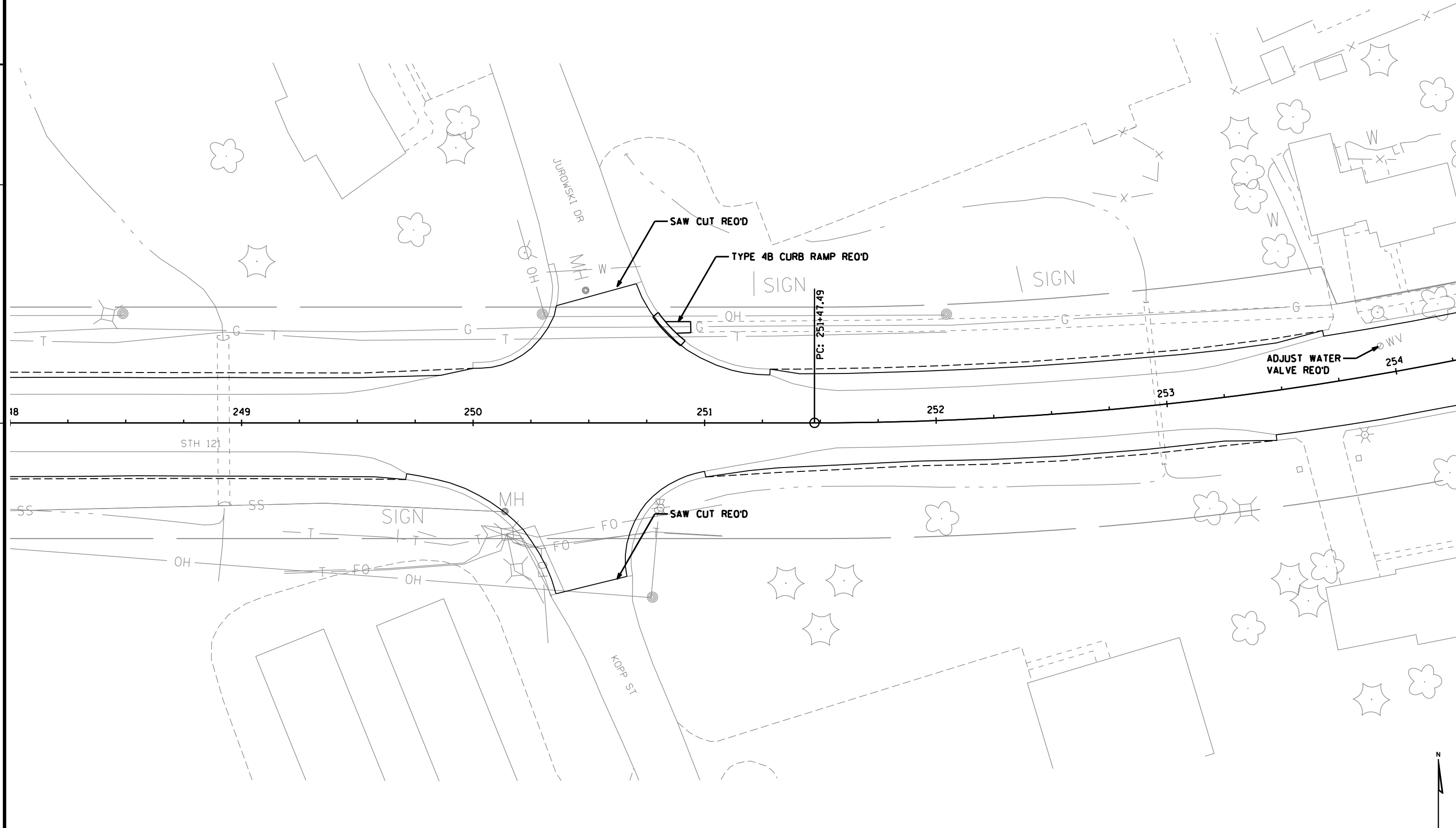
COUNTY: TREMPLEAU

TURN LANE DETAILS

SHEET

E





PROJECT NO: 7505-00-71

HWY: STH 121

COUNTY: TREMPLEAU

SIDEWALK DETAILS

SHEET

E

FILE NAME : P:\90s\93\00093136\CADD\Civil\SheetsPlan\Preliminary plans\021118_id.dgn

PLOT DATE : 4/28/2014

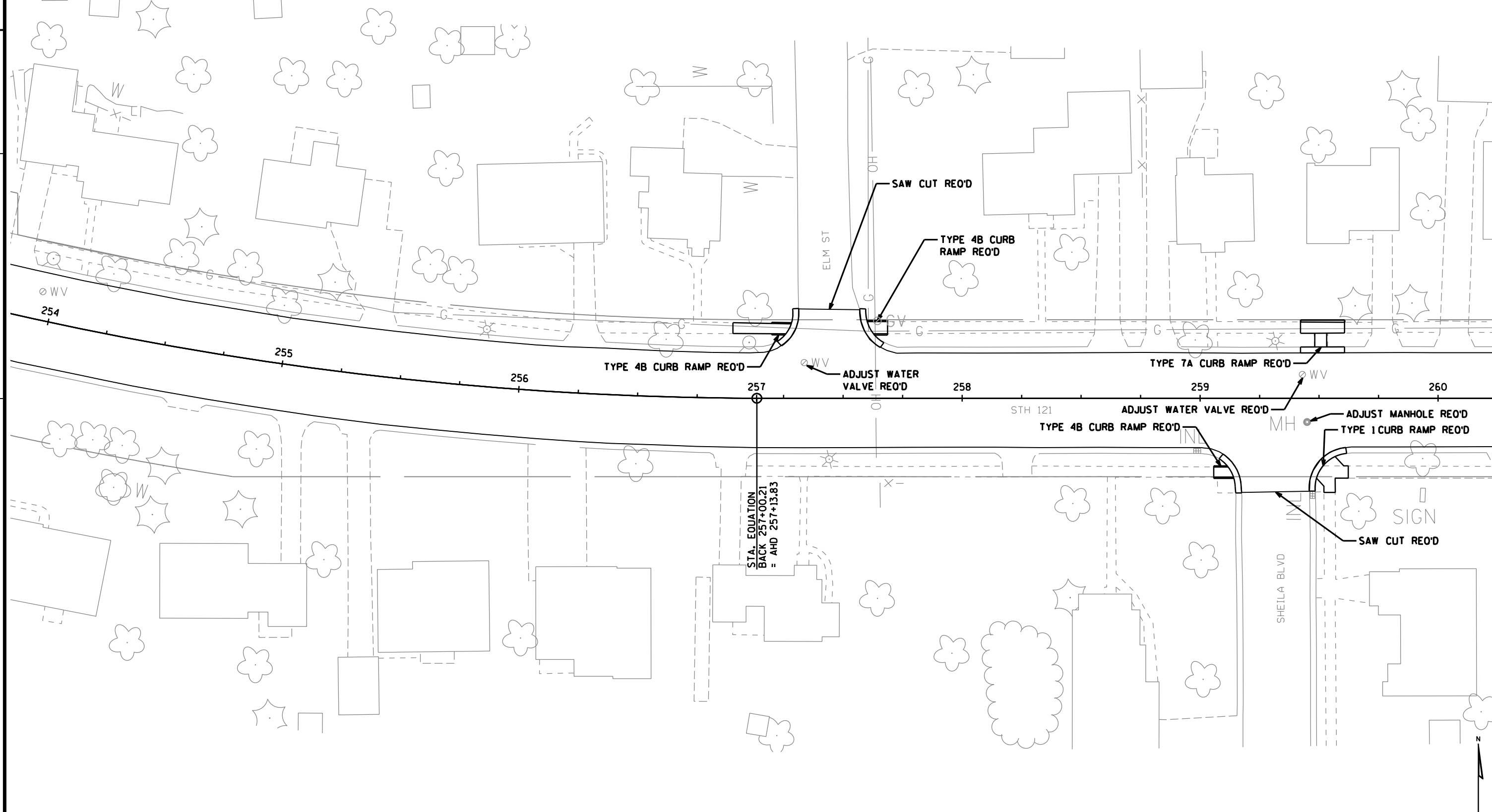
PLOT BY : psaegeer

PLOT NAME :

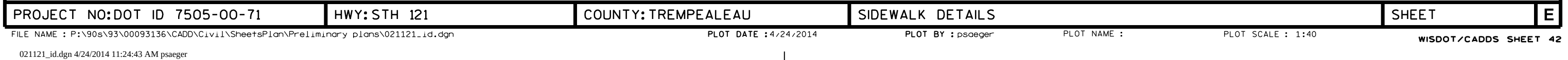
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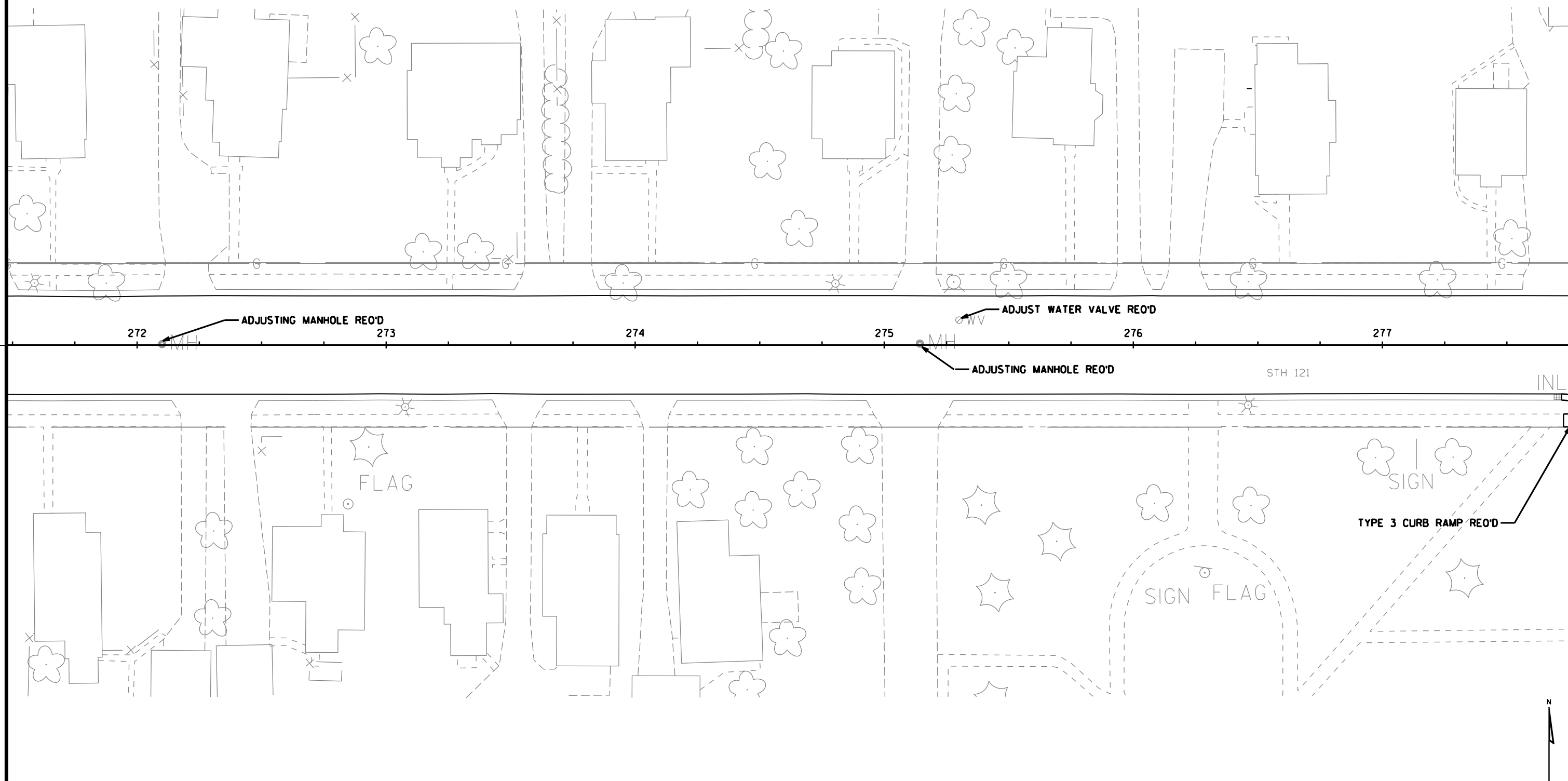
WISDOT/CADDs SHEET 42

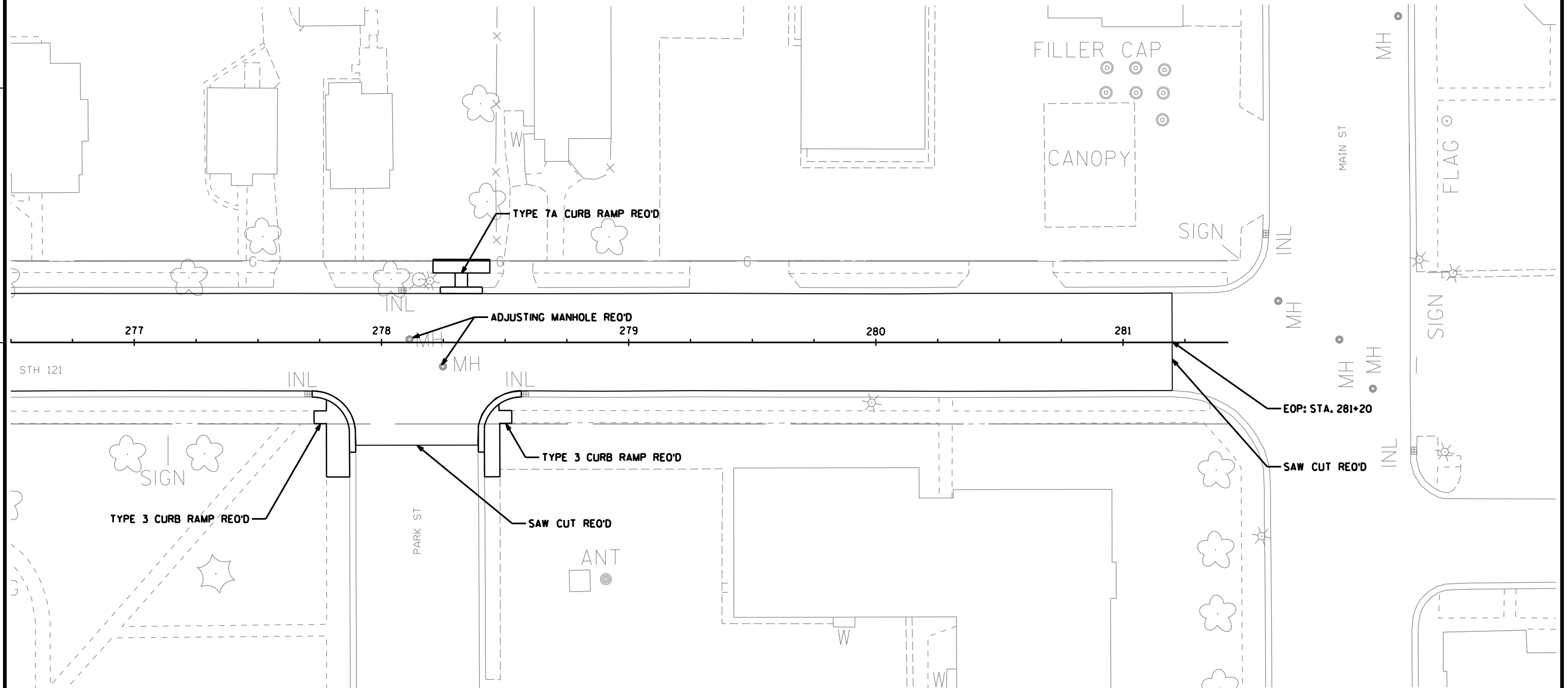
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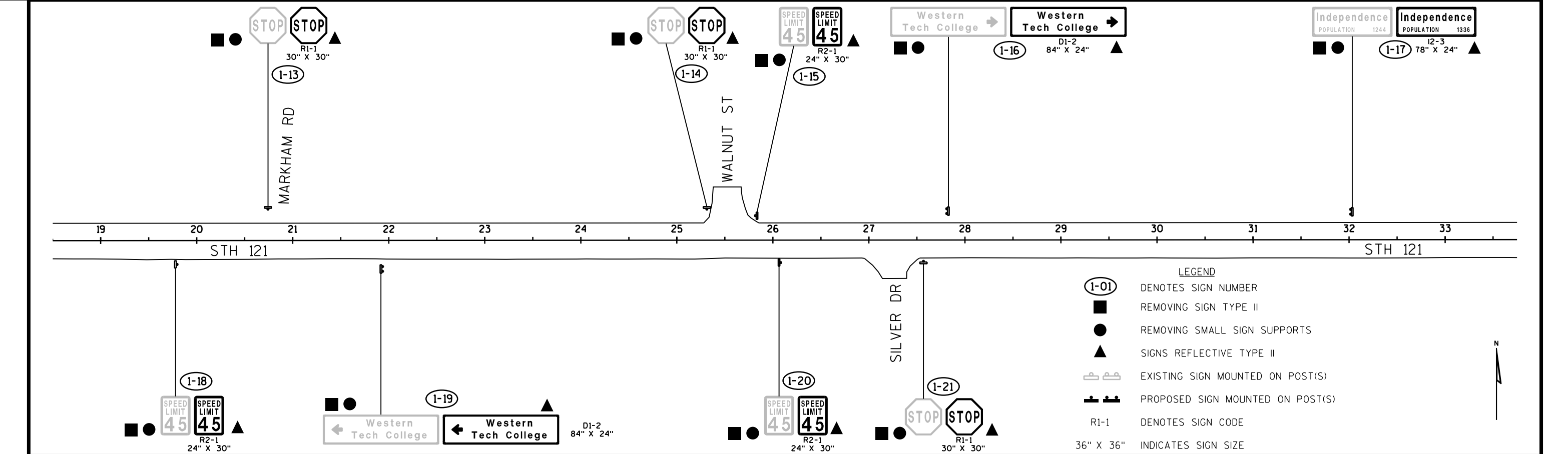
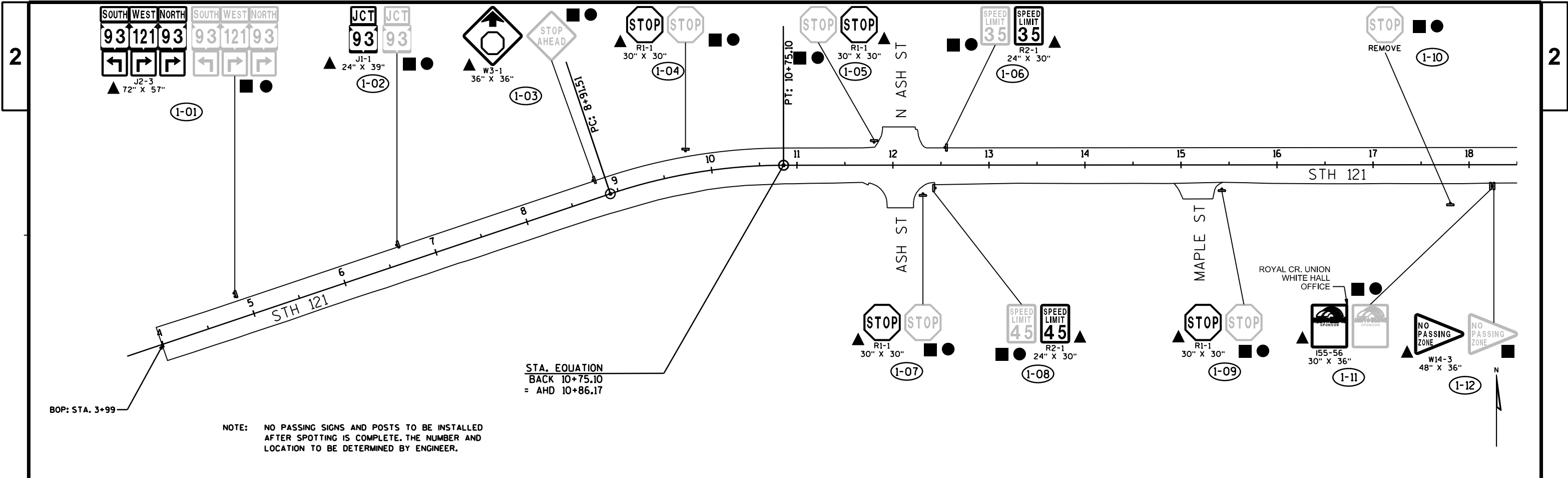


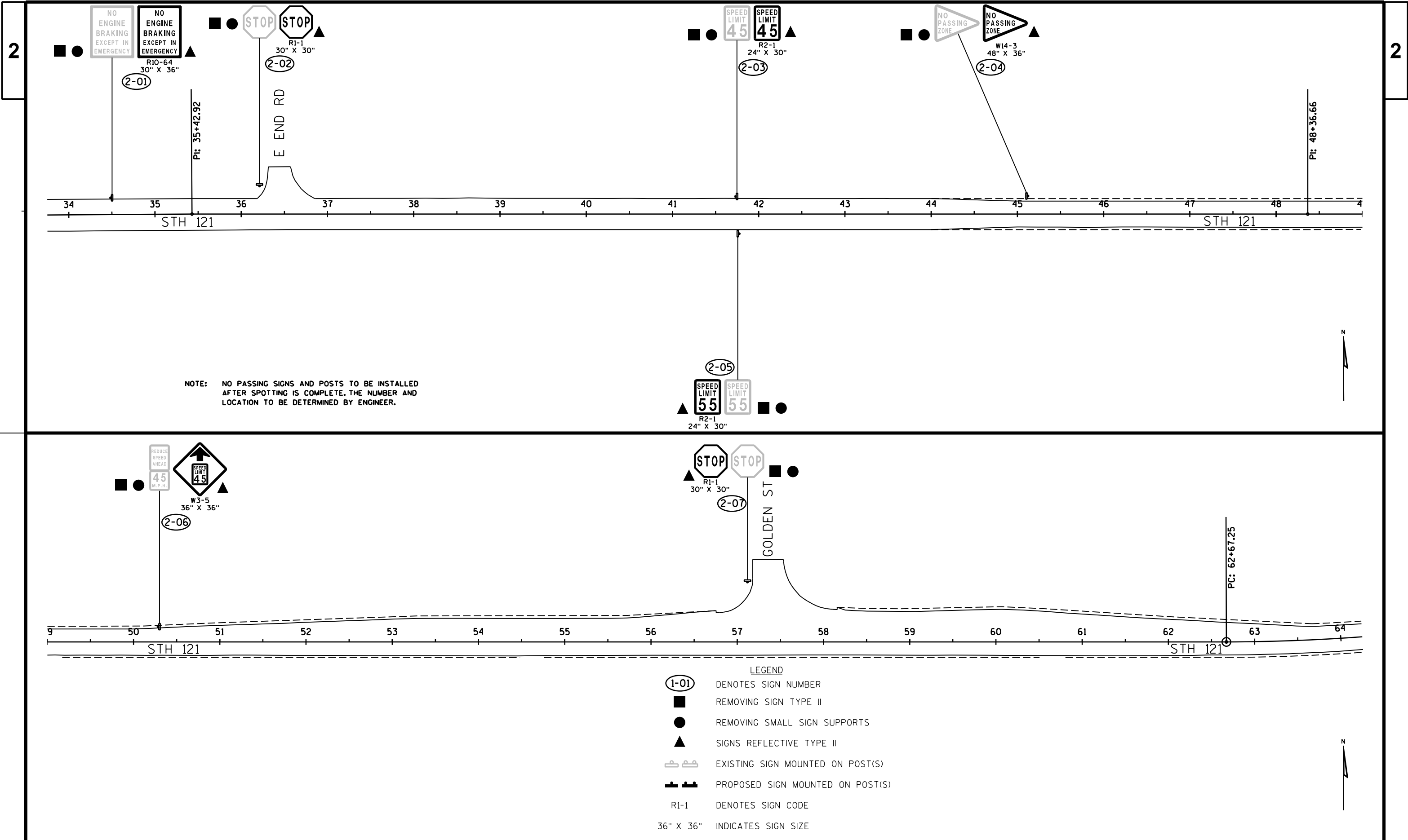


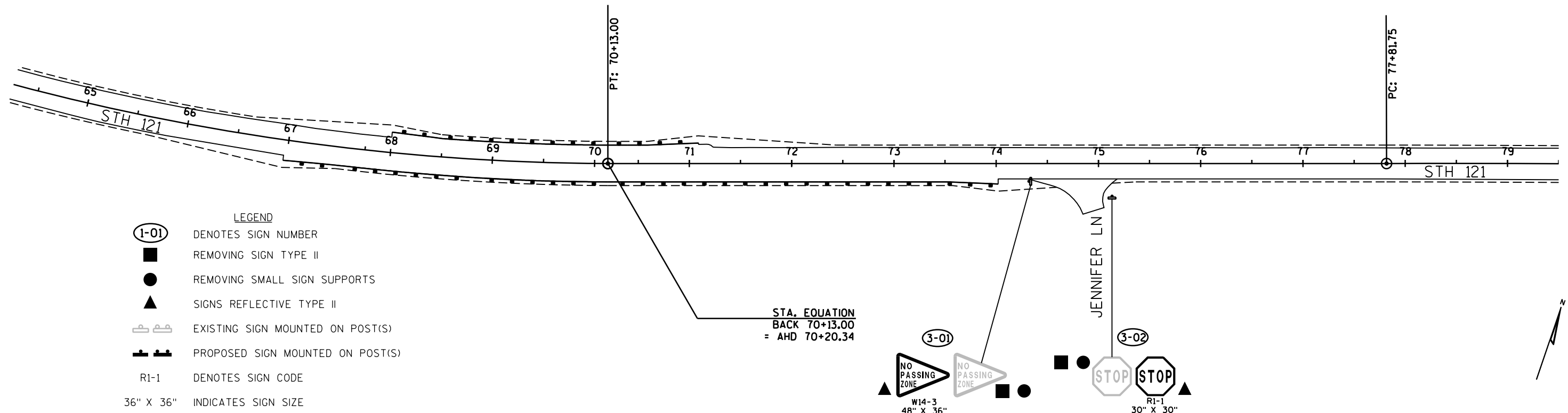




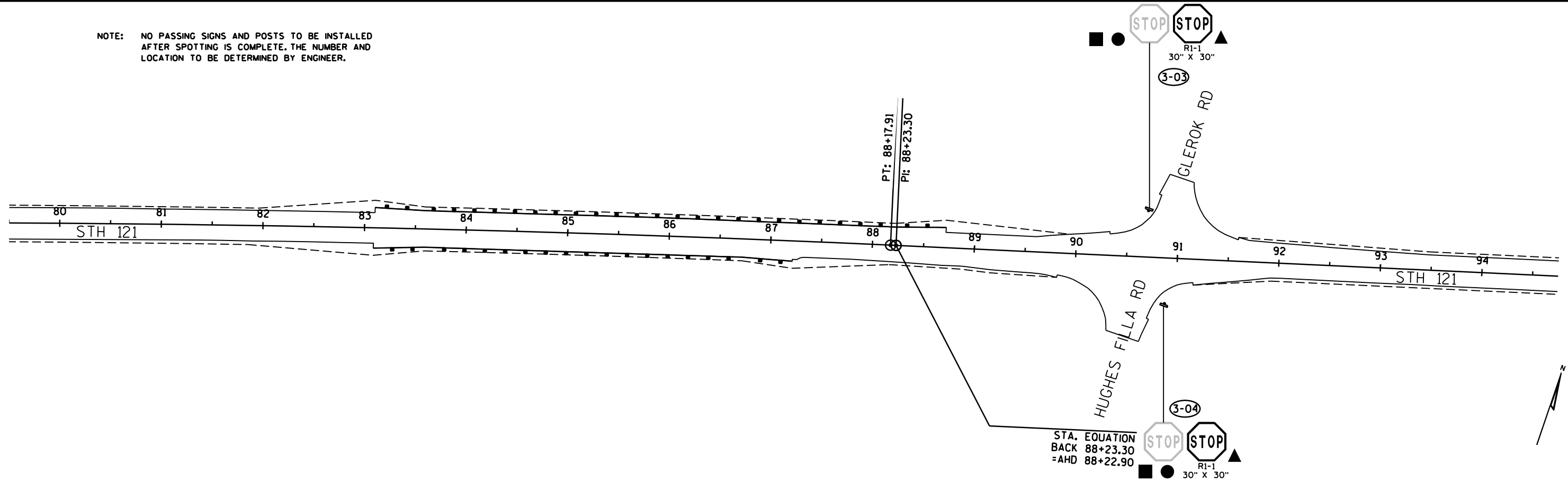


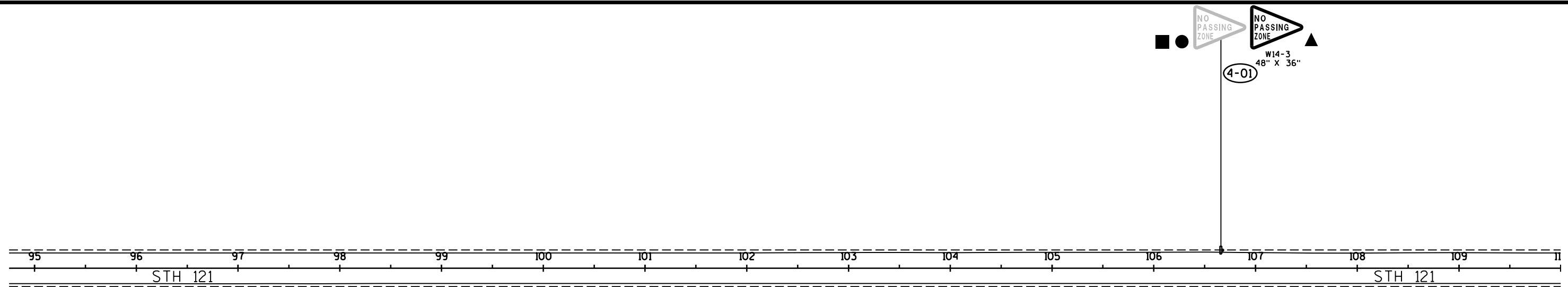






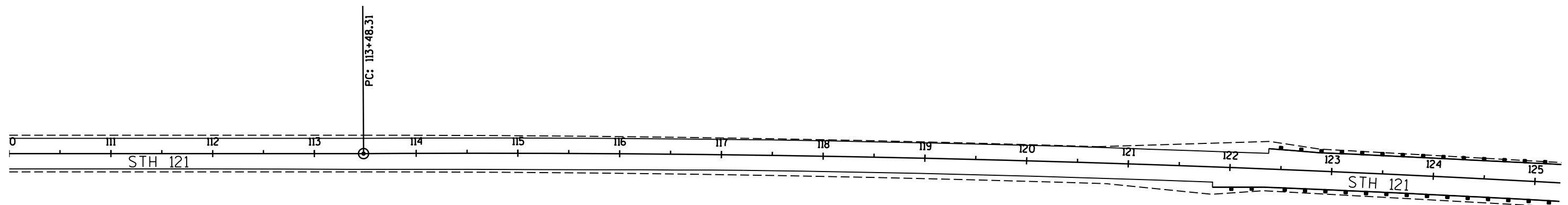
NOTE: NO PASSING SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETE. THE NUMBER AND LOCATION TO BE DETERMINED BY ENGINEER.

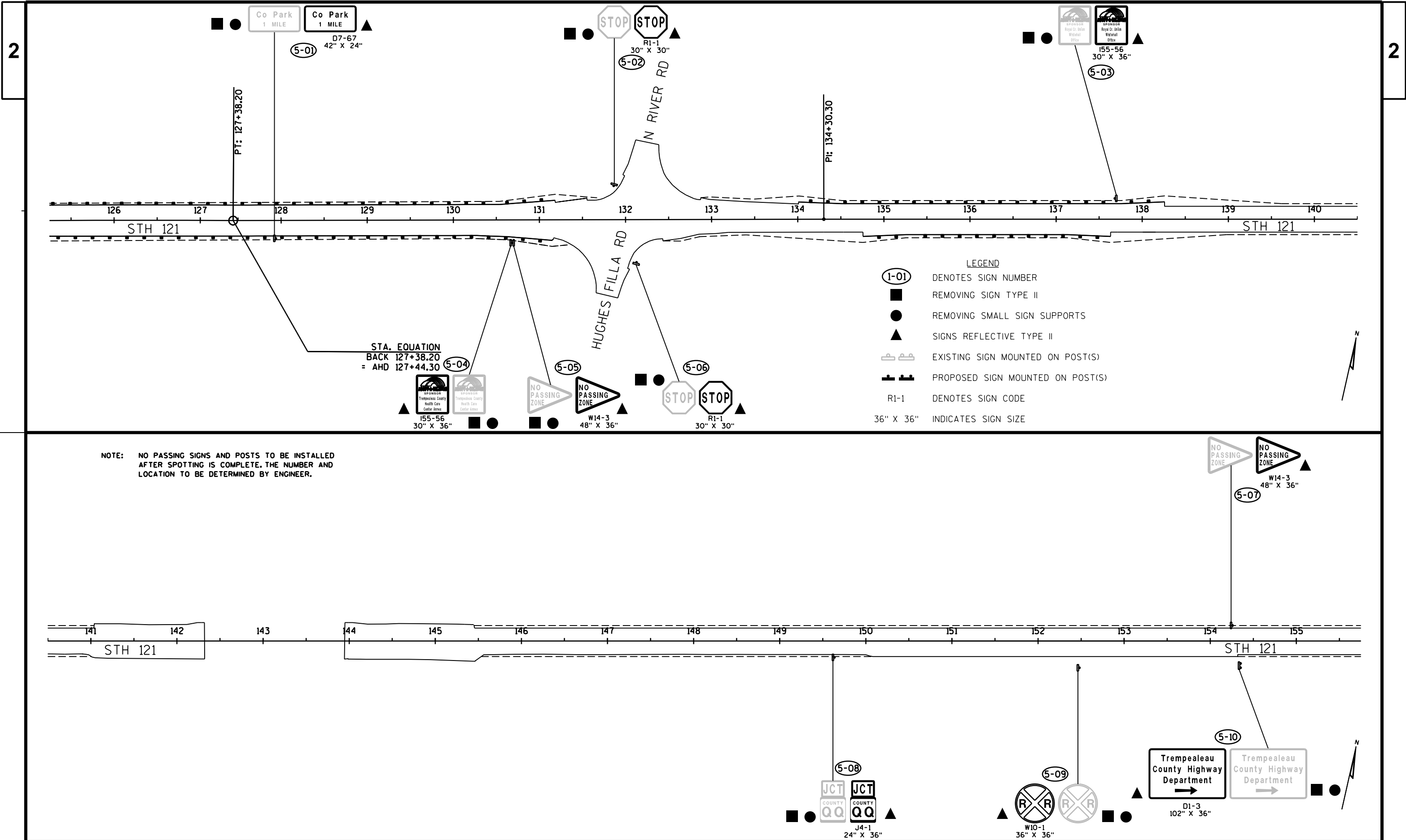




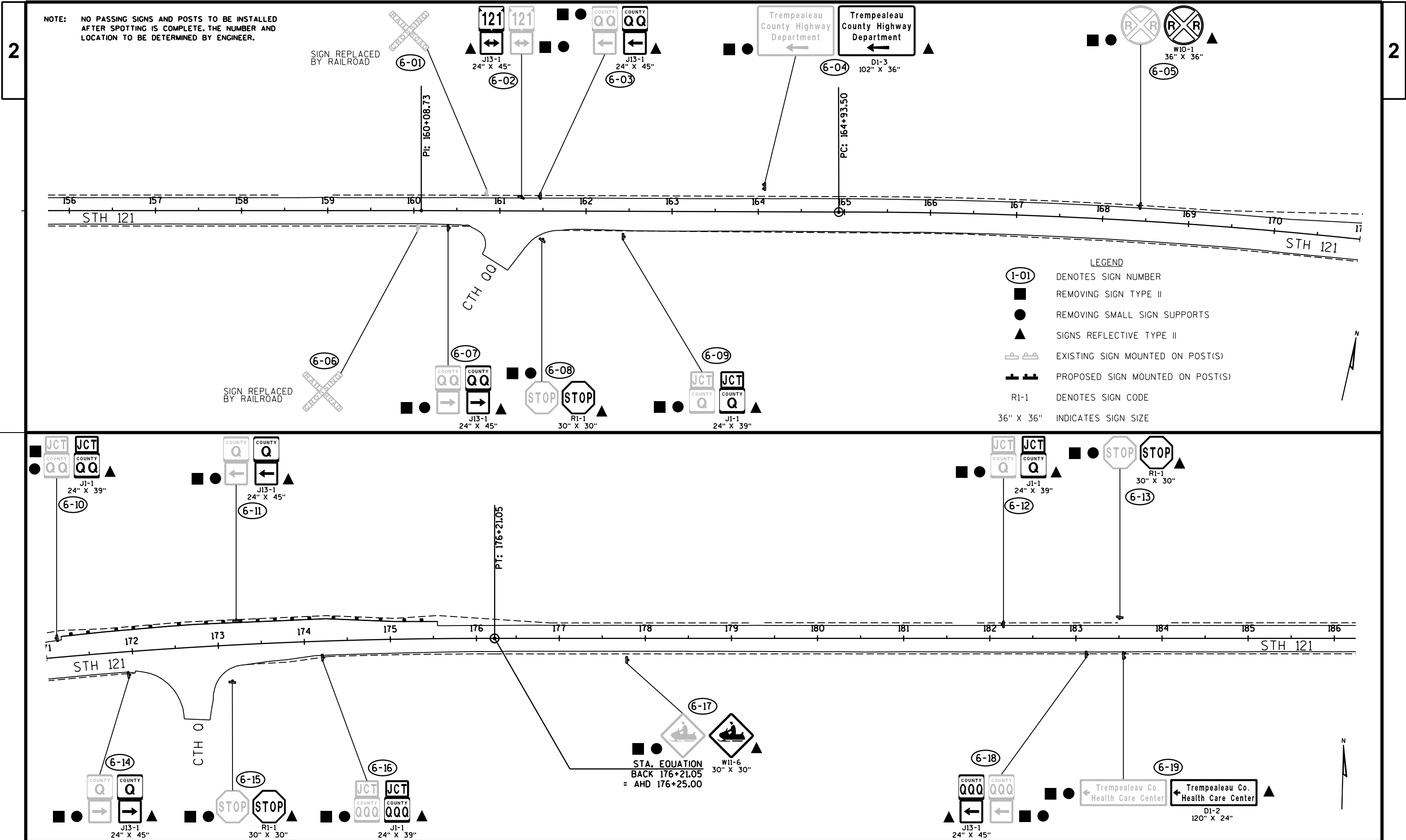
- LEGEND
- DENOTES SIGN NUMBER
 - REMOVING SIGN TYPE II
 - REMOVING SMALL SIGN SUPPORTS
 - SIGNS REFLECTIVE TYPE II
 - EXISTING SIGN MOUNTED ON POST(S)
 - PROPOSED SIGN MOUNTED ON POST(S)
 - R1-1 DENOTES SIGN CODE
 - 36" X 36" INDICATES SIGN SIZE

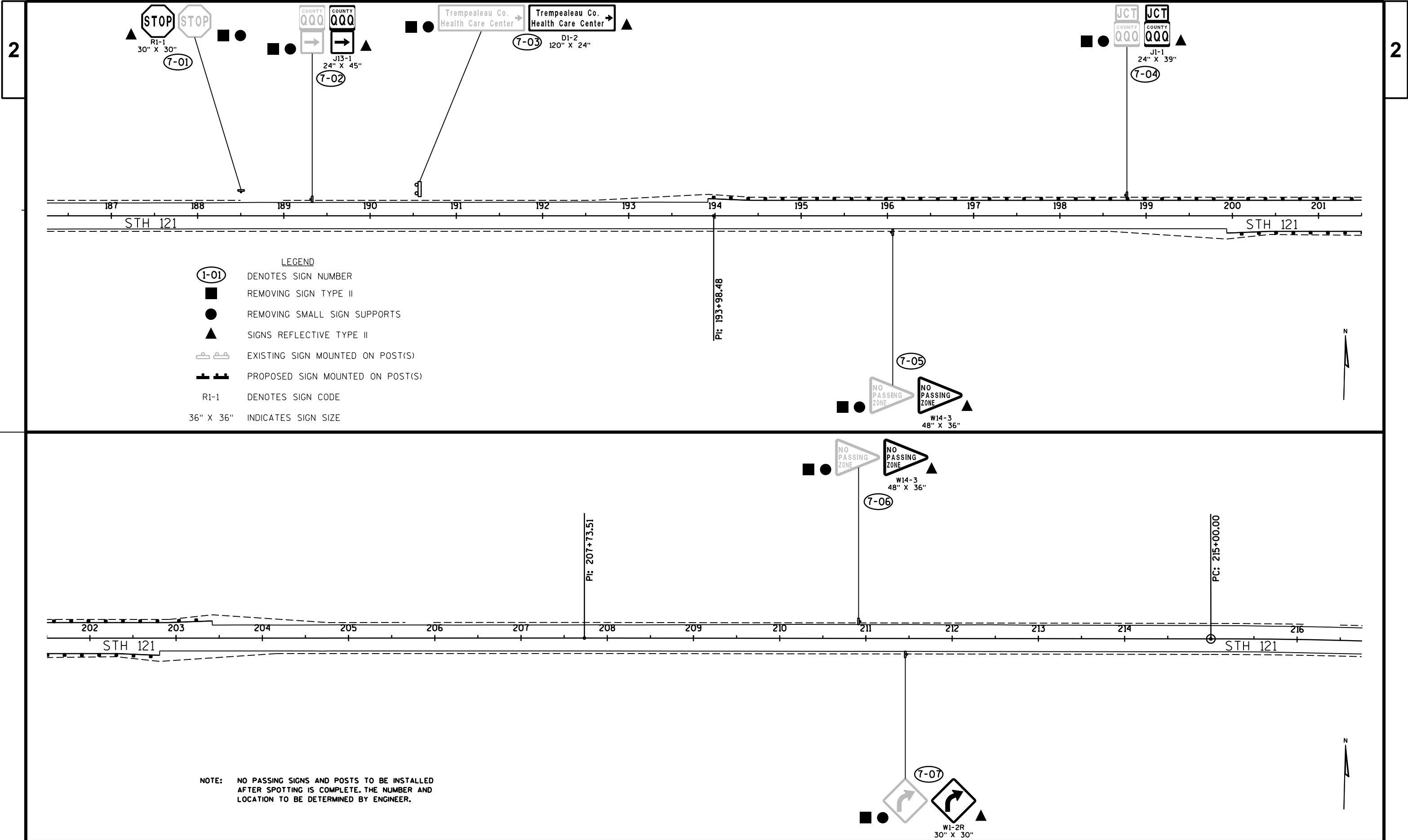
NOTE: NO PASSING SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETE. THE NUMBER AND LOCATION TO BE DETERMINED BY ENGINEER.

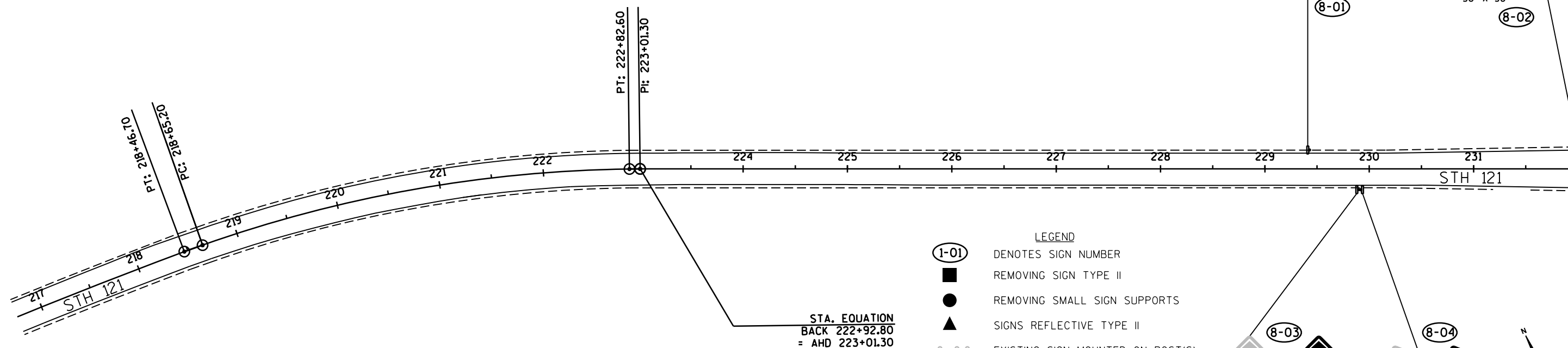




NOTE: NO PASSING SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETE. THE NUMBER AND LOCATION TO BE DETERMINED BY ENGINEER.

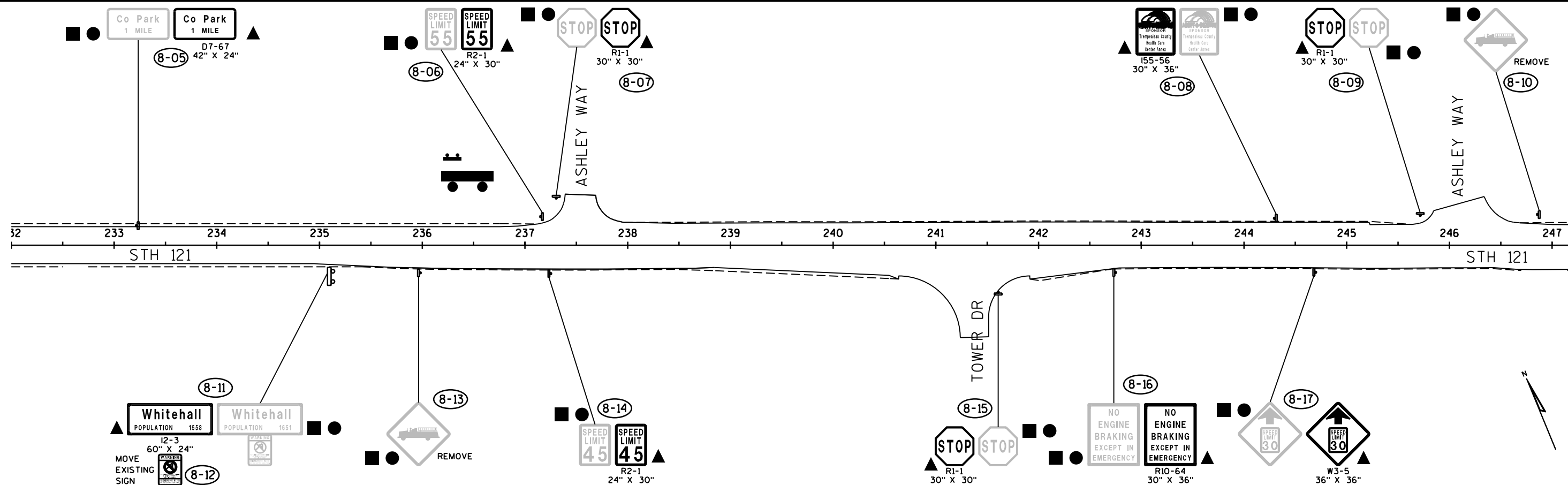


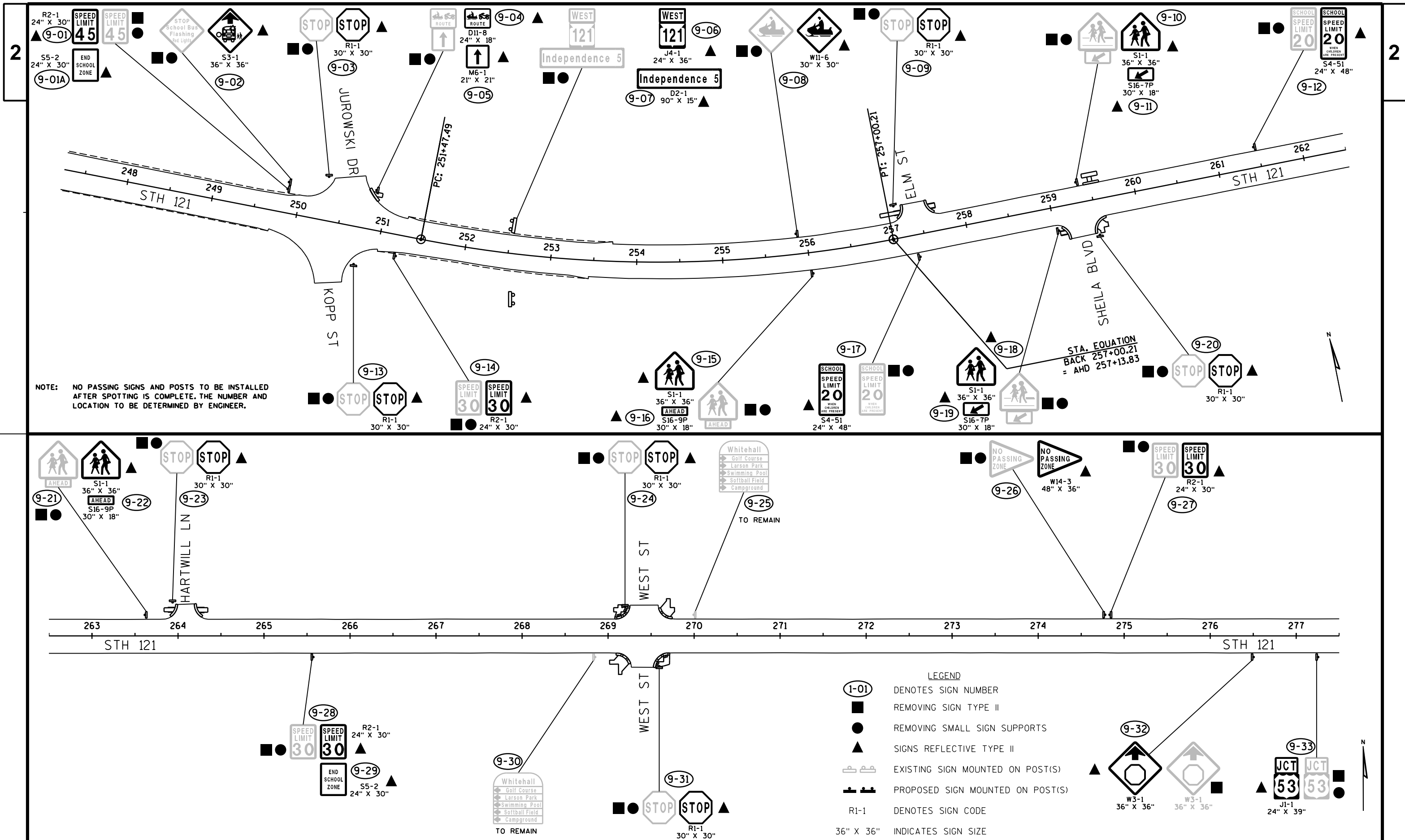




NOTE: NO PASSING SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETE. THE NUMBER AND LOCATION TO BE DETERMINED BY ENGINEER.

- LEGEND
- 1-01 DENOTES SIGN NUMBER
 - REMOVING SIGN TYPE II
 - REMOVING SMALL SIGN SUPPORTS
 - ▲ SIGNS REFLECTIVE TYPE II
 - EXISTING SIGN MOUNTED ON POST(S)
 - PROPOSED SIGN MOUNTED ON POST(S)
 - R1-1 DENOTES SIGN CODE
 - 36" X 36" INDICATES SIGN SIZE





PROJECT NO: 7505-00-71

HWY: STH 121

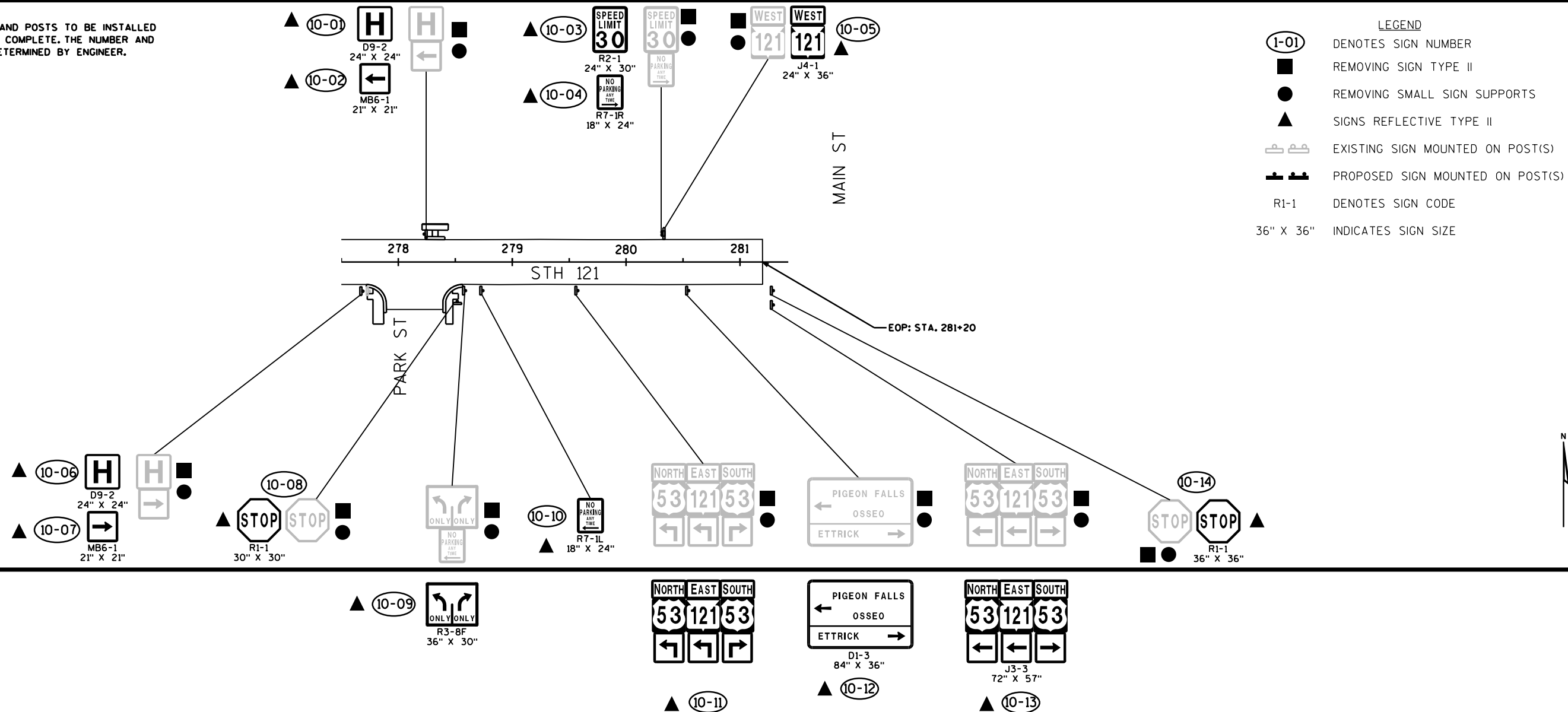
COUNTY: TREMPLEAU

PERMANENT SIGNING

SHEET

E

NOTE: NO PASSING SIGNS AND POSTS TO BE INSTALLED AFTER SPOTTING IS COMPLETE. THE NUMBER AND LOCATION TO BE DETERMINED BY ENGINEER.



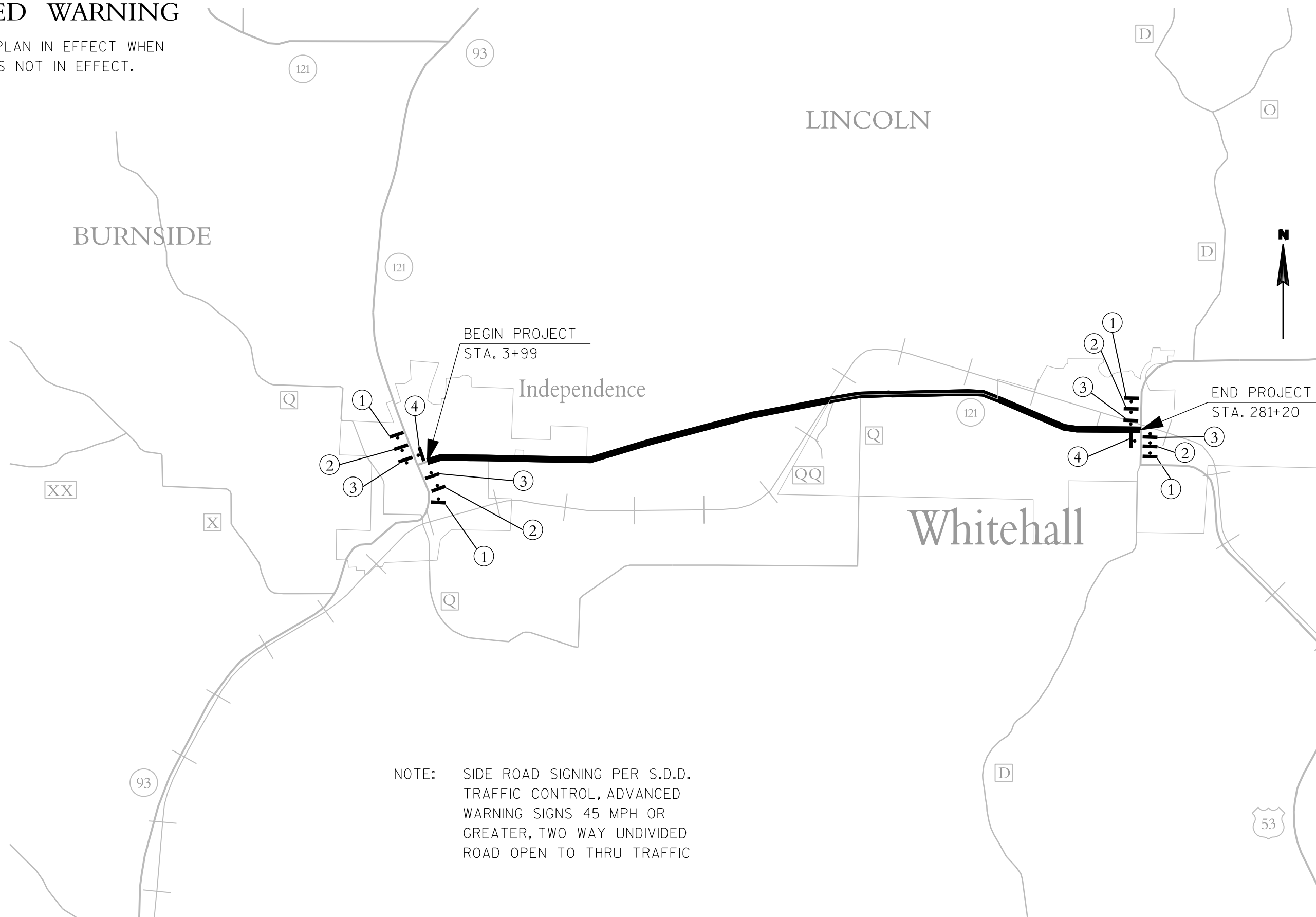
ADVANCED WARNING

THIS SIGNING PLAN IN EFFECT WHEN
THE DETOUR IS NOT IN EFFECT.

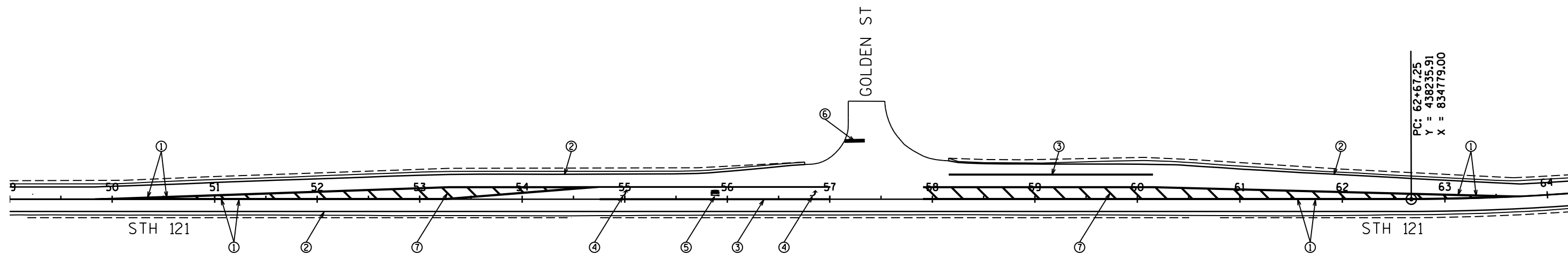


LEGEND

- PROPOSED SIGNS
- PROJECT LOCATION

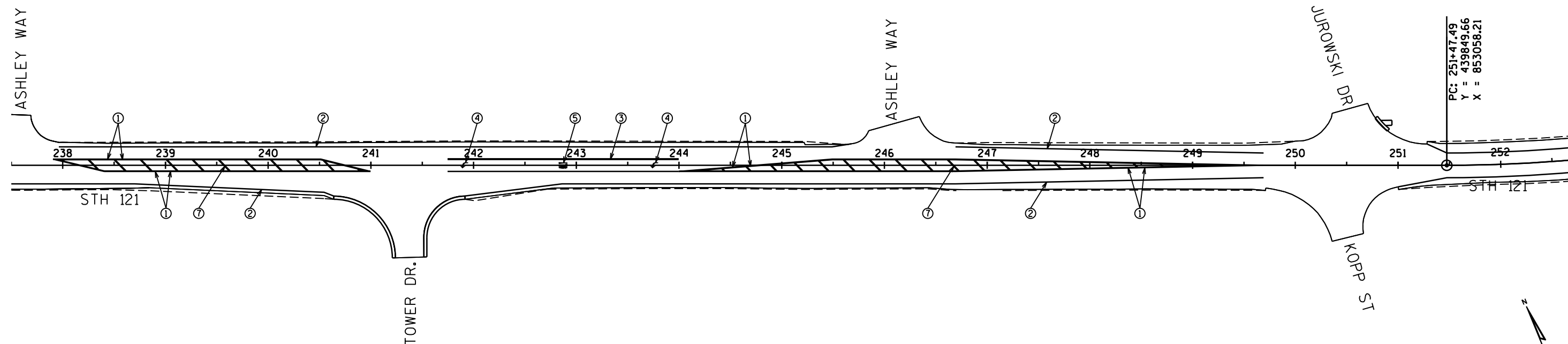
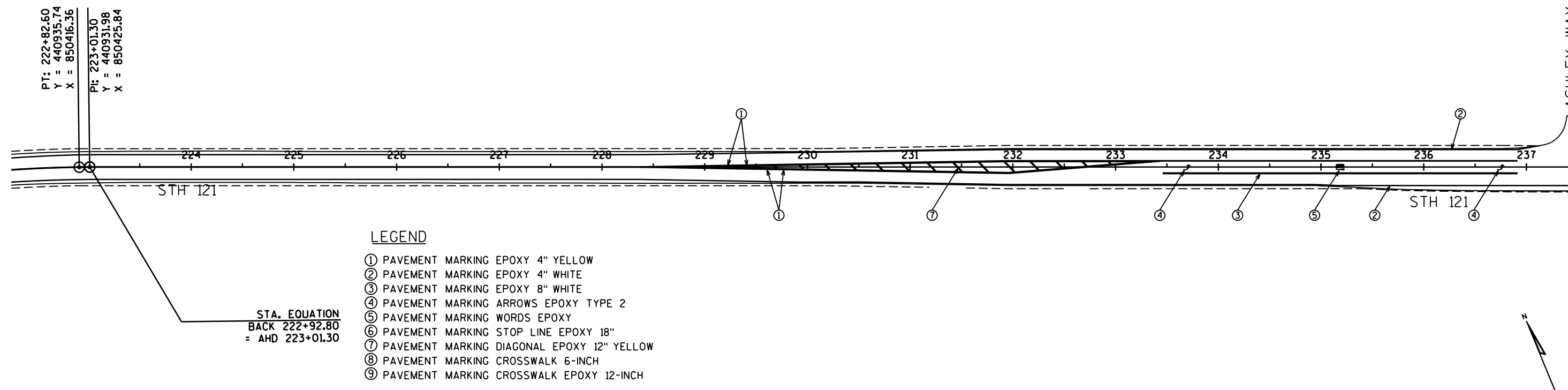


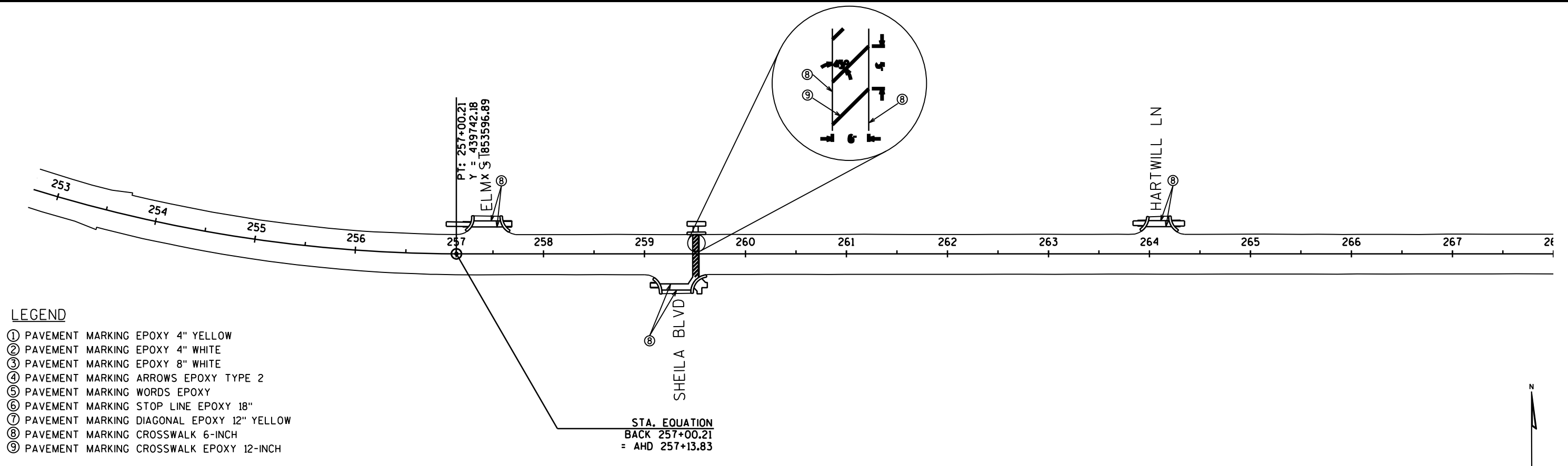
NOTE: SIDE ROAD SIGNING PER S.D.D.
TRAFFIC CONTROL, ADVANCED
WARNING SIGNS 45 MPH OR
GREATER, TWO WAY UNDIVIDED
ROAD OPEN TO THRU TRAFFIC



LEGEND

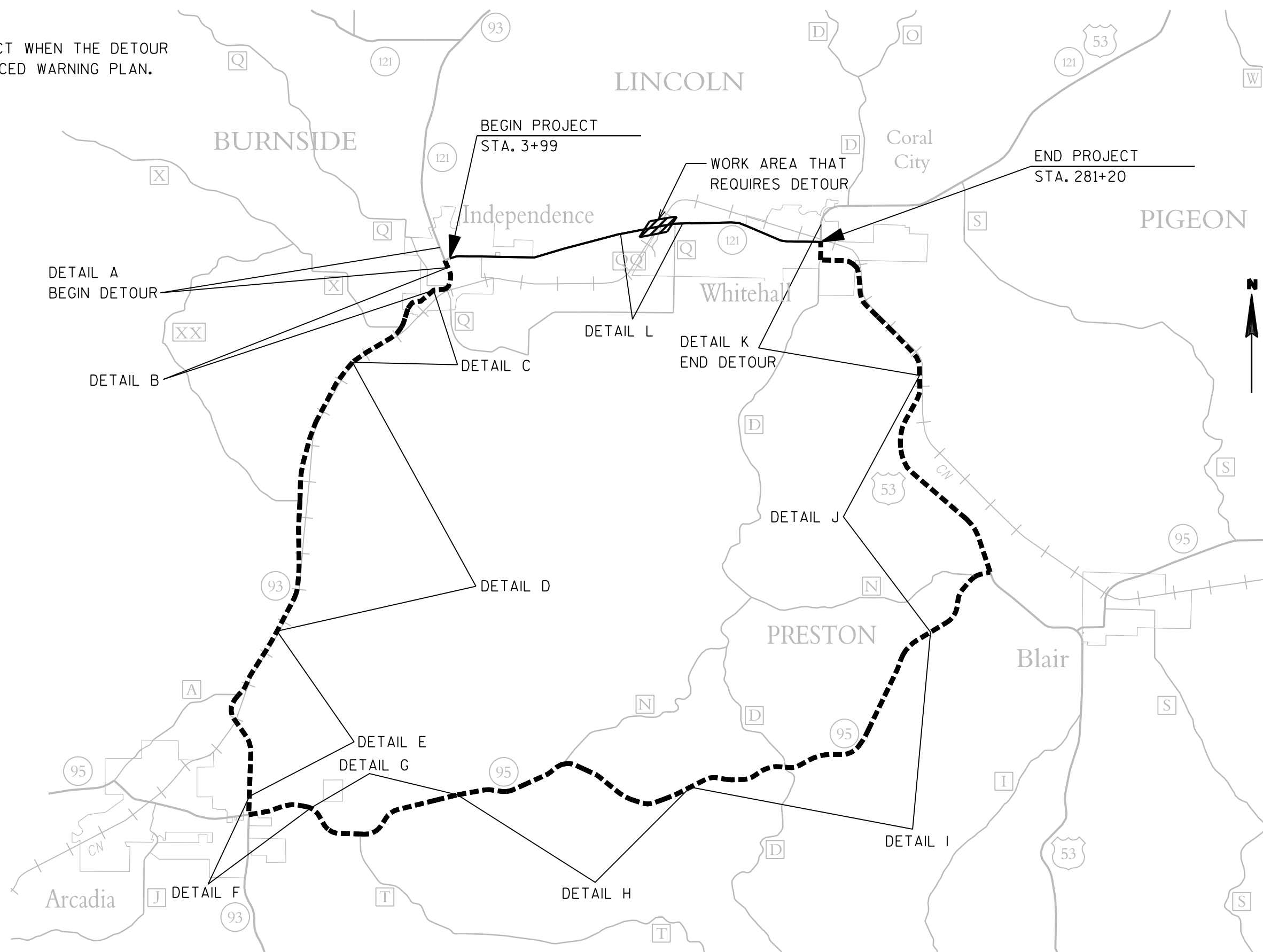
- ① PAVEMENT MARKING EPOXY 4" YELLOW
- ② PAVEMENT MARKING EPOXY 4" WHITE
- ③ PAVEMENT MARKING EPOXY 8" WHITE
- ④ PAVEMENT MARKING ARROWS EPOXY TYPE 2
- ⑤ PAVEMENT MARKING WORDS EPOXY
- ⑥ PAVEMENT MARKING STOP LINE EPOXY 18"
- ⑦ PAVEMENT MARKING DIAGONAL EPOXY 12" YELLOW
- ⑧ PAVEMENT MARKING CROSSWALK 6-INCH
- ⑨ PAVEMENT MARKING CROSSWALK EPOXY 12-INCH





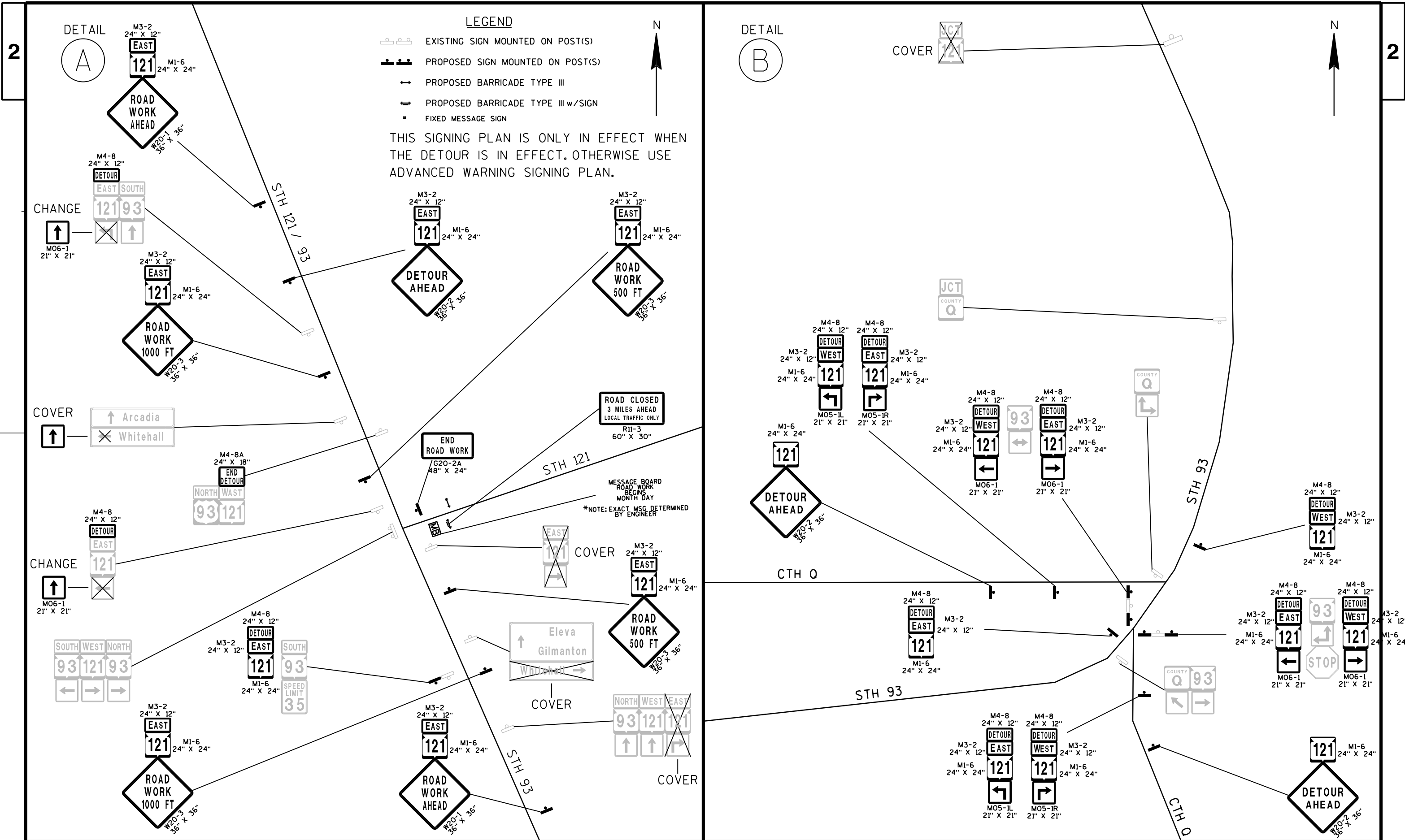
DETOUR

THIS SIGNING PLAN IS ONLY IN EFFECT WHEN THE DETOUR IS IN EFFECT. OTHERWISE USE ADVANCED WARNING PLAN.



LEGEND

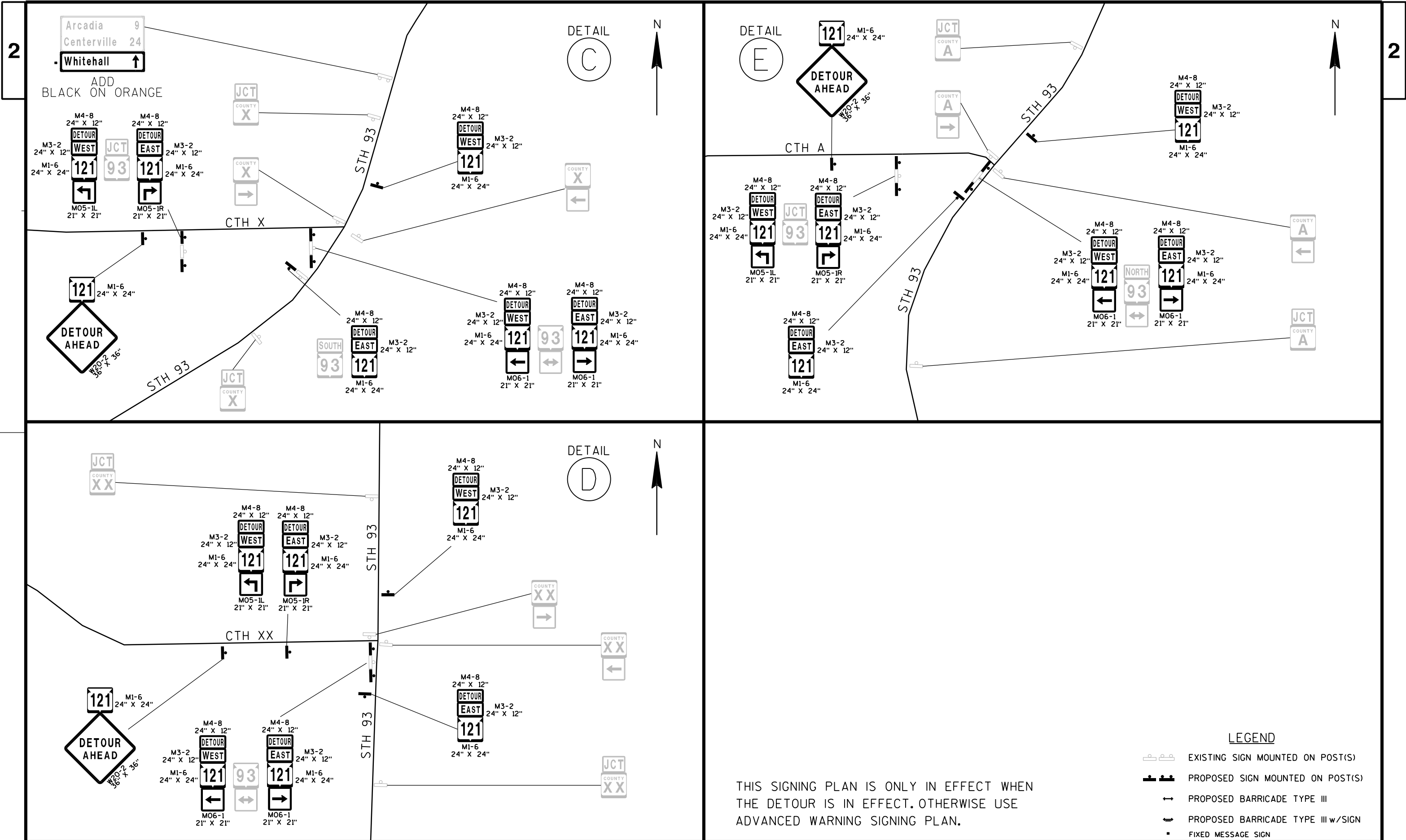
- PROJECT LOCATION
- - - DETOUR ROUTE

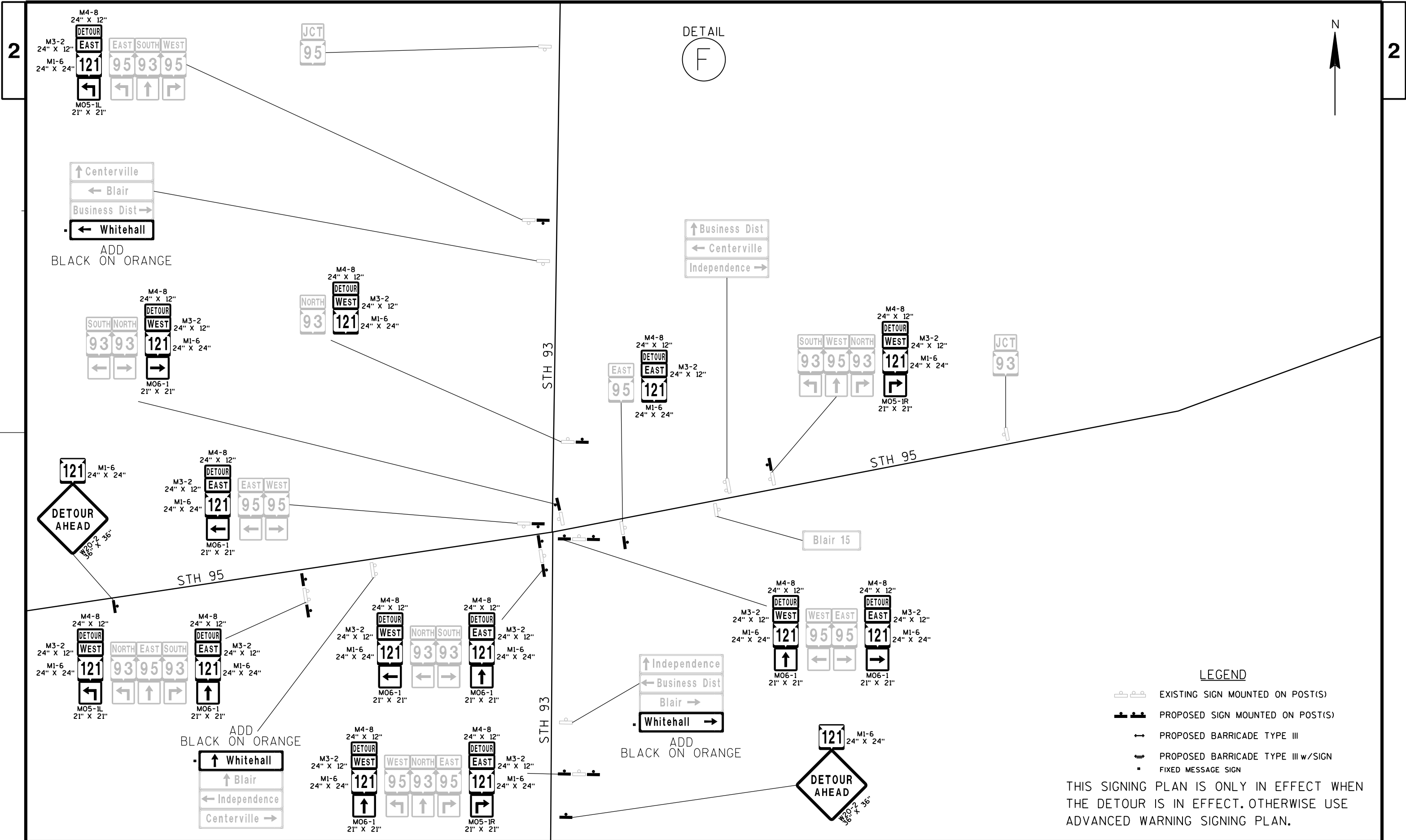


LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED BARRICADE TYPE III
- PROPOSED BARRICADE TYPE III w/SIGN
- FIXED MESSAGE SIGN

THIS SIGNING PLAN IS ONLY IN EFFECT WHEN THE DETOUR IS IN EFFECT. OTHERWISE USE ADVANCED WARNING SIGNING PLAN.



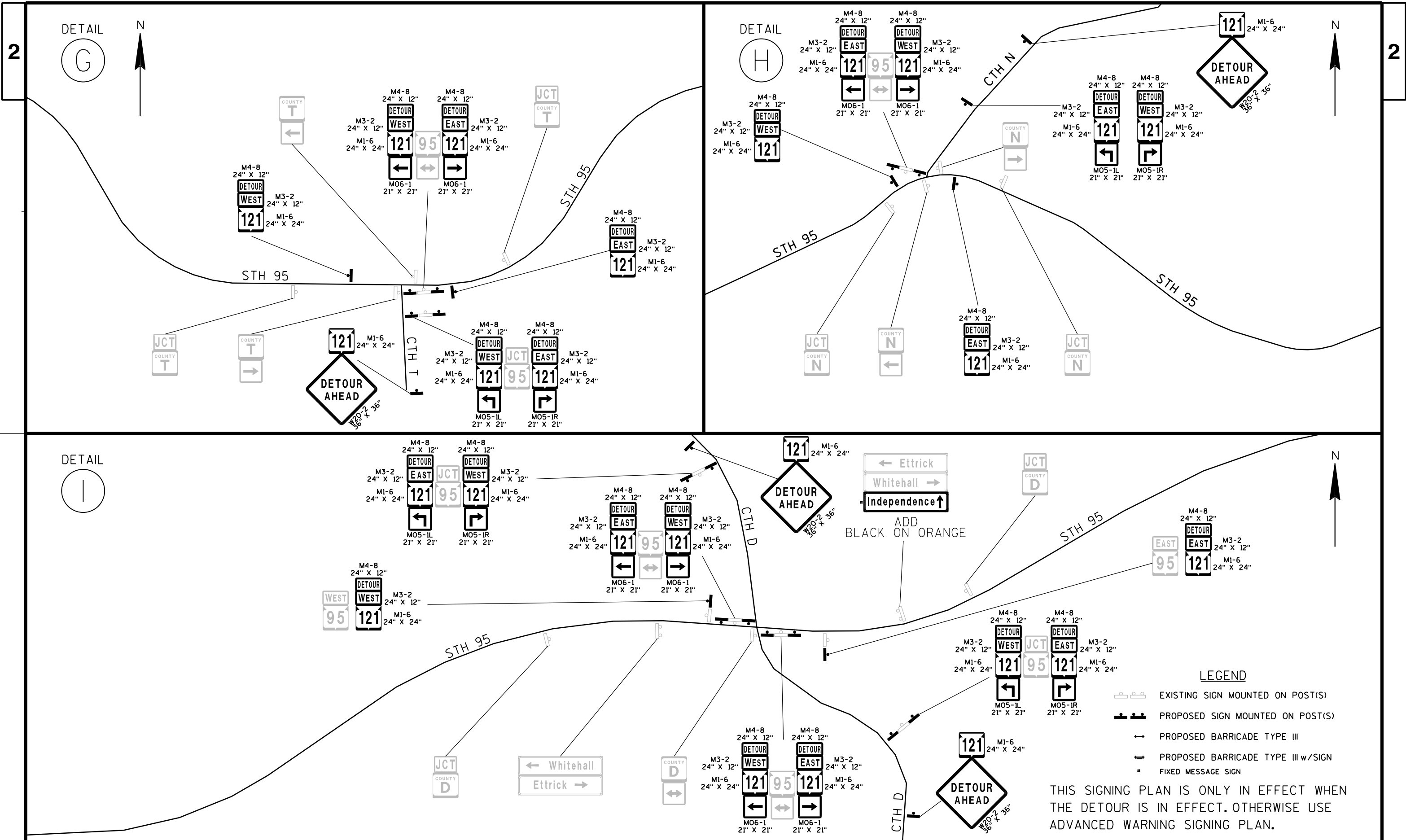


DETAIL
F

LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED BARRICADE TYPE III
- PROPOSED BARRICADE TYPE III w/SIGN
- FIXED MESSAGE SIGN

THIS SIGNING PLAN IS ONLY IN EFFECT WHEN THE DETOUR IS IN EFFECT. OTHERWISE USE ADVANCED WARNING SIGNING PLAN.



PROJECT NO: 7505-00-71

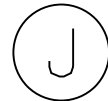
HWY: STH 121

COUNTY: TREMPEALEAU

DETOUR ROUTE FOR STH 121

SHEET

E



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED BARRICADE TYPE III
- PROPOSED BARRICADE TYPE III w/SIGN
- FIXED MESSAGE SIGN

THIS SIGNING PLAN IS ONLY IN EFFECT WHEN
THE DETOUR IS IN EFFECT. OTHERWISE USE
ADVANCED WARNING SIGNING PLAN.

PROJECT NO: 7505-00-71

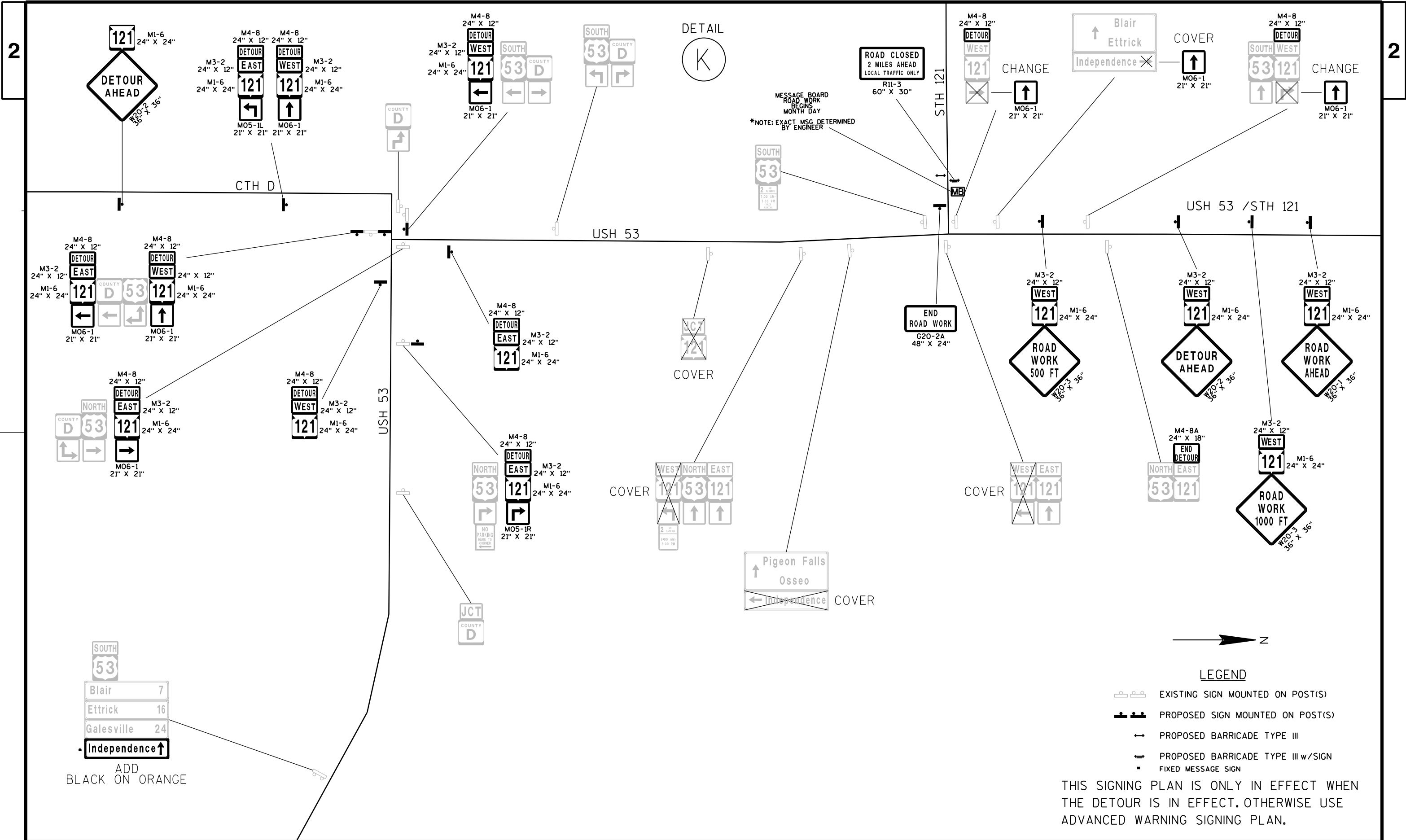
HWY: STH 121

COUNTY: TREMPEALEAU

DETOUR ROUTE FOR STH 121

SHEET

E



LEGEND

- EXISTING SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED BARRICADE TYPE III
- PROPOSED BARRICADE TYPE III w/SIGN

THIS SIGNING PLAN IS ONLY IN EFFECT WHEN THE DETOUR IS IN EFFECT. OTHERWISE USE ADVANCED WARNING SIGNING PLAN.



HUGHES FILLA DRIVE

STH 121

CTH Q

CTH QQ

ROAD CLOSED
0.5 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED
AHEAD
W20-3
36" X 36"

ROAD CLOSED
1000 FT
W20-3
36" X 36"

ROAD CLOSED
500 FT
W20-3
36" X 36"

ROAD CLOSED
R11-2
48" X 30"

ROAD CLOSED
0.2 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3
60" X 30"

ROAD CLOSED
500 FT
W20-3
36" X 36"

ROAD CLOSED
R11-2
48" X 30"

ROAD CLOSED
1000 FT
W20-3
36" X 36"

ROAD CLOSED
AHEAD
W20-3
36" X 36"

DATE 06AUG14		E S T I M A T E O F Q U A N T I T I E S			
LINE				7505-00-71	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	201.0105	CLEARING	STA	3.000	3.000
0020	201.0205	GRUBBING	STA	3.000	3.000
0030	203.0100	REMOVING SMALL PIPE CULVERTS	EACH	6.000	6.000
0040	203.0500.S	REMOVING OLD STRUCTURE OVER WATERWAY (STATION) 01. 86+35.61	LS	1.000	1.000
0050	204.0100	REMOVING PAVEMENT	SY	153.000	153.000
0060	204.0120	REMOVING ASPHALTIC SURFACE MILLING	SY	112,065.000	112,065.000
0070	204.0150	REMOVING CURB & GUTTER	LF	582.000	582.000
0080	204.0155	REMOVING CONCRETE SIDEWALK	SY	1,963.000	1,963.000
0090	204.0185	REMOVING MASONRY	CY	8.000	8.000
0100	205.9015.S	GRADING SHAPING & FINISHING INTERSECTION (LOCATION) 01. TOWER DRIVE	LS	1.000	1.000
0110	206.2000	EXCAVATION FOR STRUCTURES CULVERTS (STRUCTURE) 01. B-61-0016	LS	1.000	1.000
0120	206.6000.S	TEMPORARY SHORING	SF	4,650.000	4,650.000
0130	210.0100	BACKFILL STRUCTURE	CY	1,480.000	1,480.000
0140	211.0400	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS	STA	100.000	100.000
0150	213.0100	FINISHING ROADWAY (PROJECT) 01. 7505-00-71	EACH	1.000	1.000
0160	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	5,000.000	5,000.000
0170	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	5,330.000	5,330.000
0180	305.0500	SHAPING SHOULDERS	STA	250.000	250.000
0190	311.0115	BREAKER RUN	CY	150.000	150.000
0200	440.4410.S	INCENTIVE IRI RIDE	DOL	21,000.000	21,000.000
0210	455.0605	TACK COAT	GAL	5,460.000	5,460.000
0220	465.0105	ASPHALTIC SURFACE	TON	3,000.000	3,000.000
0230	465.0110	ASPHALTIC SURFACE PATCHING	TON	266.000	266.000
0240	465.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	TON	147.000	147.000
0250	465.0475	ASPHALT CENTER LINE RUMBLE STRIPS 2-LANE RURAL	LF	21,118.000	21,118.000
0260	502.5005	MASONRY ANCHORS TYPE L NO. 5 BARS	EACH	146.000	146.000
0270	504.0100	CONCRETE MASONRY CULVERTS	CY	376.000	376.000
0280	504.0900	CONCRETE MASONRY ENDWALLS	CY	6.400	6.400
0290	505.0410	BAR STEEL REINFORCEMENT HS CULVERTS	LB	51,130.000	51,130.000
0300	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	50.000	50.000
0310	520.7000	CLEANING CULVERT PIPES	EACH	4.000	4.000
0320	520.8000	CONCRETE COLLARS FOR PIPE	EACH	2.000	2.000
0330	521.0118	CULVERT PIPE CORRUGATED STEEL 18-INCH	LF	86.000	86.000
0340	521.1018	APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH	EACH	2.000	2.000
0350	522.0130	CULVERT PIPE REINFORCED CONCRETE CLASS III 30-INCH	LF	12.000	12.000
0360	522.1024	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	EACH	6.000	6.000
0370	522.1036	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH	EACH	1.000	1.000
0380	524.0124	CULVERT PIPE SALVAGED 24-INCH	LF	40.000	40.000
0390	524.0136	CULVERT PIPE SALVAGED 36-INCH	LF	24.000	24.000
0400	601.0411	CONCRETE CURB & GUTTER 30-INCH TYPE D	LF	359.000	359.000
0410	601.0557	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D	LF	196.000	196.000
0420	601.0600	CONCRETE CURB PEDESTRIAN	LF	117.000	117.000
0430	602.0410	CONCRETE SIDEWALK 5-INCH	SF	3,126.000	3,126.000

DATE 06AUG14		E S T I M A T E O F Q U A N T I T I E S			
LINE				7505-00-71	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0440	602.0505	CURB RAMP DETECTABLE WARNING FIELD YELLOW	SF	136.000	136.000
0450	606.0200	RIPRAP MEDIUM	CY	123.000	123.000
0460	606.0300	RIPRAP HEAVY	CY	145.000	145.000
0470	611.8110	ADJUSTING MANHOLE COVERS	EACH	15.000	15.000
0480	611.8115	ADJUSTING INLET COVERS	EACH	1.000	1.000
0490	614.0010	BARRIER SYSTEM GRADING SHAPING FINISHING	EACH	22.000	22.000
0500	614.0920	SALVAGED RAIL	LF	4,260.000	4,260.000
0510	614.2300	MGS GUARDRAIL 3	LF	4,996.000	4,996.000
0520	614.2610	MGS GUARDRAIL TERMINAL EAT	EACH	22.000	22.000
0530	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 7505-00-71	EACH	1.000	1.000
0540	619.1000	MOBILIZATION	EACH	1.000	1.000
0550	624.0100	WATER	MGAL	190.000	190.000
0560	628.1504	SILT FENCE	LF	10,100.000	10,100.000
0570	628.1520	SILT FENCE MAINTENANCE	LF	20,200.000	20,200.000
0580	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	3.000	3.000
0590	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	3.000	3.000
0600	628.2004	EROSION MAT CLASS I TYPE B	SY	7,200.000	7,200.000
0610	628.2008	EROSION MAT URBAN CLASS I TYPE B	SY	1,400.000	1,400.000
0620	628.7504	TEMPORARY DITCH CHECKS	LF	20.000	20.000
0630	628.7555	CULVERT PIPE CHECKS	EACH	6.000	6.000
0640	633.5100	MARKERS ROW	EACH	4.000	4.000
0650	633.5200	MARKERS CULVERT END	EACH	46.000	46.000
0660	634.0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	27.000	27.000
0670	634.0618	POSTS WOOD 4X6-INCH X 18-FT	EACH	60.000	60.000
0680	634.0620	POSTS WOOD 4X6-INCH X 20-FT	EACH	27.000	27.000
0690	634.0622	POSTS WOOD 4X6-INCH X 22-FT	EACH	7.000	7.000
0700	637.2210	SIGNS TYPE II REFLECTIVE H	SF	719.490	719.490
0710	637.2230	SIGNS TYPE II REFLECTIVE F	SF	210.890	210.890
0720	638.2102	MOVING SIGNS TYPE II	EACH	3.000	3.000
0730	638.2602	REMOVING SIGNS TYPE II	EACH	129.000	129.000
0740	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	118.000	118.000
0750	642.5001	FIELD OFFICE TYPE B	EACH	1.000	1.000
0760	643.0100	TRAFFIC CONTROL (PROJECT) 01. 7505-00-71	EACH	1.000	1.000
0770	643.0300	TRAFFIC CONTROL DRUMS	DAY	6,280.000	6,280.000
0780	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	180.000	180.000
0790	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	280.000	280.000
0800	643.0900	TRAFFIC CONTROL SIGNS	DAY	4,764.000	4,764.000
0810	643.0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	10.000	10.000
0820	643.1000	TRAFFIC CONTROL SIGNS FIXED MESSAGE	SF	57.600	57.600
0830	643.1050	TRAFFIC CONTROL SIGNS PCMS	DAY	14.000	14.000
0840	643.2000	TRAFFIC CONTROL DETOUR (PROJECT) 01. 7505-00-71	EACH	1.000	1.000
0850	643.3000	TRAFFIC CONTROL DETOUR SIGNS	DAY	3,870.000	3,870.000
0860	645.0105	GEOTEXTILE FABRIC TYPE C	SY	490.000	490.000
0870	645.0120	GEOTEXTILE FABRIC TYPE HR	SY	405.000	405.000
0880	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	52,475.000	52,475.000
0890	646.0126	PAVEMENT MARKING EPOXY 8-INCH	LF	1,000.000	1,000.000
0900	646.0406	PAVEMENT MARKING SAME DAY EPOXY 4-INCH	LF	33,878.000	33,878.000
0910	647.0110	PAVEMENT MARKING RAILROAD CROSSINGS EPOXY	EACH	2.000	2.000
0920	647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	EACH	6.000	6.000
0930	647.0356	PAVEMENT MARKING WORDS EPOXY	EACH	3.000	3.000

DATE 06AUG14		E S T I M A T E O F Q U A N T I T I E S			
LINE				7505-00-71	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0940	647.0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	LF	20.000	20.000
0950	647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	LF	835.000	835.000
0960	647.0766	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	LF	756.000	756.000
0970	647.0776	PAVEMENT MARKING CROSSWALK EPOXY 12-INCH	LF	91.000	91.000
0980	648.0100	LOCATING NO-PASSING ZONES	MI	5.250	5.250
0990	649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	25,979.000	25,979.000
1000	650.6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 01. B-61-0016	LS	1.000	1.000
1010	650.8000	CONSTRUCTION STAKING RESURFACING REFERENCE	LF	27,671.000	27,671.000
1020	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 7505-00-71	LS	1.000	1.000
1030	650.9920	CONSTRUCTION STAKING SLOPE STAKES	LF	6,150.000	6,150.000
1040	690.0150	SAWING ASPHALT	LF	2,115.000	2,115.000
1050	690.0250	SAWING CONCRETE	LF	119.000	119.000
1060	SPV.0060	SPECIAL 01. SPECIAL INLET COVER	EACH	2.000	2.000
1070	SPV.0060	SPECIAL 02. GRADING, SHAPING, FINISHING DRIVEWAY REMOVAL	EACH	13.000	13.000
1080	SPV.0060	SPECIAL 03. GRADING, SHAPING, FINISHING CULVERT REPAIR	EACH	5.000	5.000
1090	SPV.0060	SPECIAL 04. ADJUSTING WATER VALVES	EACH	8.000	8.000
1100	SPV.0090	SPECIAL 01. SPECIAL LANE REPAIR	LF	5,300.000	5,300.000
1110	SPV.0090	SPECIAL 02. GRADING, SHAPING, FINISHING DITCHING	LF	200.000	200.000
1120	SPV.0090	SPECIAL 03. CONCRETE CURB AND GUTTER CURE AND SEAL TREATMENT	LF	672.000	672.000
1130	SPV.0105	SPECIAL 01. MATERIAL TRANSFER VEHICLE	LS	1.000	1.000
1140	SPV.0105	SPECIAL 02. MILLING AND REMOVING TEMPORARY JOINT	LS	1.000	1.000
1150	SPV.0105	SPECIAL 03. PREPARATION OF FOUNDATION FOR ASPHALTIC PAVING SPECIAL	LS	1.000	1.000
1160	SPV.0105	SPECIAL 04. GRADING, SHAPING, FINISHING FOR SIDEWALK	LS	1.000	1.000
1170	SPV.0105	SPECIAL 05. TEMPORARY WATER DIVERSION, STRUCTURE B-61-0016	LS	1.000	1.000
1180	SPV.0105	SPECIAL 06. REBUILD MASONRY FLUME FLOOR	LS	1.000	1.000
1190	SPV.0165	SPECIAL 01. CONCRETE SIDEWALK CURB AND SEAL TREATMENT	SF	3,126.000	3,126.000
1200	SPV.0170	SPECIAL 01. REHEATING HMA LONGITUDINAL JOINTS	STA	277.000	277.000
1210	SPV.0195	SPECIAL 01. HMA PAVEMENT TYPE E-3 SPECIAL	TON	22,500.000	22,500.000

CLEARING AND GRUBBING

STATION	LOCATION	201.0105	201.0205	REMARKS
		CLEARING STA	GRUBBING STA	
85+00 - 87+50	LT & RT	3	3	BOX CULVERT ENDS
TOTAL		3	3	

REMOVING PAVEMENT

STATION - STATION	LOCATION	204.0100 SY
4+70	DWY LT	23
6+50	DWY LT	35
7+35	DWY RT	17
7+40	DWY LT	18
19+13	DWY LT	24
23+68	DWY LT	15
24+63	DWY LT	21
TOTAL		153

REMOVING ASPHALTIC SURFACE MILLING

LOCATION	204.0120 SY
N ASH ST	100
N ASH ST	110
MAPLE ST	80
WALNUT ST	150
SILVER DR	90
E END RD	130
GOLDEN ST	370
JENNIFER LN	150
HUGHES FILLA RD	360
GLEROK RD	330
HUGHES FILLA RD	370
N RIVER RD	380
CTH QQ	230
CTH Q	340
TOWER DR	130
ASHLEY WAY	80
ASHLEY WAY	140
KOPP ST	310
JUROWSKI DR	220
ELM ST	80
SHEILA BLVD	80
HARTWILL LN	50
WEST ST	70
WEST ST	60
PARK ST	140
DRIVEWAYS	1,350
CURB REMOVAL	75
TOTAL	5,975

MAINLINE REMOVING ASPHALTIC SURFACE MILLING CONTINUED

STATION	STATION	LOCATION	204.0120 SY
3+99	- 33+50	MAINLINE	11,500
33+50	- 64+00	MAINLINE	13,100
64+00	- 94+50	MAINLINE	10,900
94+50	- 125+00	MAINLINE	9,530
125+00	- 155+50	MAINLINE	11,840
155+50	- 186+00	MAINLINE	11,800
186+00	- 216+50	MAINLINE	10,260
216+50	- 247+00	MAINLINE	12,040
247+00	- 281+20	MAINLINE	11,230
MAINLINE TOTAL			102,200
SIDEROAD, DRIVEWAY TOTAL			5,975
CAT 0010 TOTAL			108,175
253+50	- 281+20	PARKING LANES	3,890
CAT 0020 TOTAL			3,890
PROJECT TOTAL			112,065

REMOVING CURB AND GUTTER & SIDEWALK

LOCATION	204.0150	204.0155
	REMOVING CURB AND GUTTER LF	REMOVING CONCRETE SIDEWALK SF
STA. 25+18 RT	32	---
TOWER DRIVE SW	92	---
TOWER DRIVE SE	85	---
JUROWSKI DR.	20	198
ELM ST. WEST	21	110
ELM ST. EAST	22	40
SHIELA BLVD. WEST	22	36
SHIELA BLVD. EAST	30	116
STA 259+50 LT	20	120
HARTWILL LN. WEST	18	56
HARTWILL LN. EAST	20	62
WEST ST. NW	27	126
WEST ST. NE	24	160
WEST ST. SW	25	190
WEST ST. SE	30	134
PARK ST. WEST	36	296
PARK ST. EAST	38	198
STA. 278+32 LT	20	121
TOTAL	582	1,963

NOTE: ALL QTY'S ARE CAT 0010 UNLESS OTHERWISE NOTED

INTERSECTION RESTORATION

		205.9015.S.01 GRADING SHAPING & FINISHING INTERSECTION		* SALVAGED TOPSOIL		* FERTILIZER TYPE B		* SEEDING MIXTURE		* SEEDING TEMPORARY		REMARKS
STATION - STATION	LOCATION	TOWER DR. LS	CUT CY	FILL CY	SY	CWT	No. 20 LB	LB				
230+50 - 243+00	LT & RT	1	703	106	1241	1	34	34				
TOTAL		1	703	106	1241	1	34	34				

*NOTE: QUANTITY FOR INFORMATION ONLY

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

		211.0400		REMARKS
STATION - STATION	LOCATION	STA		
UNDISTRIBUTED	MAINLINE	100		
TOTAL		100		MISC LOCATIONS FOR REMOVAL OF EXCESS SHLDR GRAVEL

SHAPING SHOULDERS

		305.0500	
STATION	STATION	LOCATION	STA
3+99	253+60	LT & RT	250
TOTAL			250

BASE AGGREGATE DENSE

		305.0110 3/4-INCH		305.0120 1 1/4-INCH	
STATION - STATION	LOCATION	TON		TON	
3+99 - 66+00	LT & RT	731		---	
66+00 - 75+52	LT & RT	280		844	
75+52 - 81+60	LT & RT	116		---	
81+60 - 89+22	LT & RT	256		875	
89+22 - 120+50	LT & RT	468		---	
120+50 - 132+50	LT & RT	386		757	
132+50 - 139+50	LT & RT	245		499	
139+50 - 161+00	LT & RT	223		---	
161+00 - 170+00	LT & RT	94		294	
170+00 - 175+55	LT & RT	112		---	
175+55 - 198+50	LT & RT	324		---	
198+50 - 204+50	LT & RT	309		689	
204+50 - 230+00	LT & RT	391		---	
230+00 - 242+50	LT & RT	294		891	
242+50 - 253+70	LT & RT	79		---	
TOWER DRIVE	LT & RT	---		156	
GRAVEL DRIVEWAYS		260		---	
UNDISTRIBUTED		431		325	
TOTAL		5,000		5,330	

HMA PAVEMENT TYPE E-3 SPECIAL

		455.0605 TACK COAT	
STATION - STATION	LOCATION	SPV.0195.01 TON	GAL
3+99 - 33+50	MAINLINE	2,387	589
33+50 - 64+00	MAINLINE	2,735	670
64+00 - 94+50	MAINLINE	2,410	570
94+50 - 125+00	MAINLINE	2,000	490
125+00 - 155+50	MAINLINE	2,510	615
155+50 - 161+00	MAINLINE	444	105
161+00 - 186+00	MAINLINE	2,036	500
186+00 - 216+50	MAINLINE	2,200	530
216+50 - 247+00	MAINLINE	2,730	635
247+00 - 281+20	MAINLINE	2,278	562
CAT 0010 TOTAL		21,730	5,266
253+50 - 281+20	PARKNG LANES	770	194
CAT 0020 TOTAL		770	194
PROJECT TOTAL		22,500	5,460

NOTE: ALL QTY'S ARE CAT 0010 UNLESS OTHERWISE NOTED

ASPHALTIC SURFACE

465.0120 465.0110 ASPHALTIC 465.0105 ASPHALTIC SURFACE ASPHALTIC SURFACE DRWYS SURFACE PATCHING AND FE					
STATION	LOCATION	TON	TON	TON	REMARKS
4+10	LT	---	---	2	DWY
8+08	RT	---	---	2	DWY
8+26	LT	---	---	4	DWY
10+00	LT	---	---	4	DWY
10+55	LT	---	---	3	DWY
12+10	LT	20	---	---	INTERSECTION
12+10	RT	20	---	---	INTERSECTION
13+55	RT	---	---	6	DWY
14+35	RT	---	---	5	DWY
14+59	LT	---	---	2	DWY
15+17	RT	14	---	---	INTERSECTION
15+80	LT	---	---	2	DWY
17+64	RT	---	---	6	DWY
19+48	RT	---	---	5	DWY
20+21	RT	---	---	7	DWY
21+24	RT	---	---	2	DWY
22+25	RT	---	---	5	DWY
23+66	RT	---	---	5	DWY
25+48	RT	---	---	5	DWY
25+55	LT	30	---	---	INTERSECTION
26+15	LT	---	---	3	DWY
27+24	RT	17	---	---	INTERSECTION
27+35	LT	---	---	4	DWY
29+15	LT	---	---	4	DWY
31+07	LT	---	---	4	DWY
36+50	LT	25	---	---	INTERSECTION
38+64	LT	---	---	3	DWY
39+70	RT	---	---	4	DWY
40+42	LT	---	---	2	DWY
49+09	RT	---	---	2	DWY
54+62	RT	---	---	3	DWY
57+39	LT	73	---	---	INTERSECTION
60+65	RT	---	---	3	DWY
74+86	RT	29	---	---	INTERSECTION
90+50	RT	71	---	---	INTERSECTION

ASPHALTIC SURFACE

465.0120 465.0110 ASPHALTIC 465.0105 ASPHALTIC SURFACE ASPHALTIC SURFACE DRWYS SURFACE PATCHING AND FE					
STATION	LOCATION	TON	TON	TON	REMARKS
91+00	LT	65	---	---	INTERSECTION
131+81	RT	73	---	---	INTERSECTION
132+22	LT	75	---	---	INTERSECTION
158+75	LT	---	---	7	DWY
161+12	RT	46	---	---	INTERSECTION
172+70	RT	68	---	---	INTERSECTION
179+32	LT	---	---	2	DWY
181+73	LT	---	---	3	DWY
183+80	LT	---	---	7	DWY
188+75	LT	---	---	5	DWY
205+82	LT	---	---	4	DWY
216+28	LT	---	---	5	DWY
231+40	RT	---	---	4	DWY
232+65	RT	---	---	9	DWY
237+53	LT	26	---	---	INTERSECTION
241+35	RT	108	---	---	INTERSECTION
246+10	LT	28	---	---	INTERSECTION
246+92	RT	---	---	5	DWY
250+40	RT	60	---	---	INTERSECTION
250+55	LT	43	---	---	INTERSECTION
257+45	LT	13	---	---	INTERSECTION
259+30	RT	15	---	---	INTERSECTION
264+10	LT	10	---	---	INTERSECTION
269+40	LT	14	---	---	INTERSECTION
269+40	RT	12	---	---	INTERSECTION
278+15	RT	27	---	---	INTERSECTION
PROJECT		---	16	---	CURB REPLACEMENT
UNDISTRIBUTED		2,019	250	---	LEVELING AND WEDGING
TOTAL		3,000	266	147	

NOTE: ALL QTY'S ARE CAT 0010 UNLESS OTHERWISE NOTED

PIPE CULVERTS													
		203.0100	520.7000	520.8000	521.0118	521.1018	522.0130	522.1024	522.1036	524.0124	524.0136		
		REMOVING	CLEANING	CONCRETE	ENDWALLS	APRON	CPRC	ENDWALLS	ENDWALLS	CULVERT	CULVERT		
		SMALL		COLLARS	CPCS	FOR CPCS	CLASS III	FOR CPRC	FOR CPRC	PIPE	PIPE		
		CULVERT	CULVERT	FOR	18-INCH	18-INCH	30-INCH	24-INCH	36-INCH	24-INCH	36-INCH	TIES	THICKNESS
STATION	LOCATION	PIPE	PIPES	PIPE	18-INCH	18-INCH	30-INCH	24-INCH	36-INCH	24-INCH	36-INCH	EA	IN
		EA	EA	EA	LF	EA	LF	LF	LF	LF	LF		
30+03	RT	1	---	---	---	---	---	---	---	---	---	---	---
47+04	LT	---	---	1	---	---	---	1	---	8	---	6	---
47+04	RT	---	---	---	---	---	---	1	---	8	---	6	---
47+08	LT	---	---	1	---	---	---	1	---	8	---	6	---
47+08	RT	---	---	---	---	---	---	1	---	8	---	6	---
51+85	RT	1	---	---	---	---	---	---	---	---	---	---	---
59+05	RT	---	1	---	---	---	---	1	---	---	---	2	---
59+10	RT	---	1	---	---	---	---	1	---	---	---	2	---
70+67	LT	1	---	---	---	---	---	---	1	---	---	2	---
70+72	RT	---	1	---	---	---	---	---	---	---	24	8	---
177+84	RT	---	1	---	---	---	---	---	---	---	---	---	---
179+04	RT	---	---	---	---	---	---	---	---	8	---	2	---
184+15	RT	1	---	---	---	---	---	---	---	---	---	---	---
184+68	RT	1	---	---	---	---	---	---	---	---	---	---	---
219+50	RT	---	---	---	---	---	6	---	---	---	---	2	---
219+55	RT	---	---	---	---	---	6	---	---	---	---	2	---
221+29	RT	1	---	---	---	---	---	---	---	---	---	---	---
9+31	TOWER DR.	---	---	---	86	2	---	---	---	---	---	---	0.064
TOTAL		6	4	2	86	2	12	6	1	40	24	44	0

**NOTE: QUANTITY FOR INFORMATION ONLY

MASONRY ENDWALLS

			204.0185	504.0900
			REMOVING	MASONRY
			MASONRY	ENDWALLS
STATION	CY		CY	
219+53 LT	---		3.2	
219+53 RT	8		3.2	
TOTAL	8		6.4	

ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL

		465.0475
STATION - STATION	LOCATION	LF
3+99 - 11+10	CL	711
13+10 - 24+50	CL	1,140
26+50 - 35+45	CL	895
37+45 - 49+60	CL	1,215
64+00 - 73+80	CL	980
75+80 - 89+55	CL	1,375
92+00 - 131+00	CL	3,900
133+00 - 142+05	CL	905
144+20 - 160+30	CL	1,610
162+30 - 171+75	CL	945
173+75 - 228+10	CL	5,435
251+50 - 256+45	CL	495
260+30 - 263+10	CL	280
265+10 - 268+40	CL	330
270+40 - 277+15	CL	675
279+15 - 281+20	CL	227
TOTAL		21,118

NOTE: ALL QTY'S ARE CAT 0010 UNLESS OTHERWISE NOTED

CONCRETE ITEMS							
LOCATION	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	601.0600 CONCRETE CURB PEDESTRIAN LF	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP WARNING FIELD YELLOW SF	SPV.0090.03 CONCRETE CURB & GUTTER CURE AND SEAL TREATMENT LF	SPV.0165.01 CONCRETE SIDEWALK CURE AND SEAL TREATMENT SF
STA. 4+70 LT	---	---	---	168	---	---	168
STA. 6+50 LT	---	---	---	280	---	---	280
STA. 7+35 RT	---	---	---	136	---	---	136
STA. 7+40 LT	---	---	---	152	---	---	152
STA. 19+13 LT	---	---	---	152	---	---	152
STA. 23+68 LT	---	---	---	128	---	---	128
STA. 24+63 LT	---	---	---	160	---	---	160
STA. 25+18 RT	6	---	---	---	---	6	---
TOWER DRIVE SW	---	94	---	---	---	94	---
TOWER DRIVE SE	---	82	---	---	---	82	---
JUROWSKI DR.	---	20	---	45	8	20	45
ELM ST. WEST	21	---	14	110	8	35	110
ELM ST. EAST	22	---	15	40	8	37	40
SHIELA BLVD. WEST	22	---	14	36	8	36	36
SHIELA BLVD. EAST	30	---	---	120	8	30	120
STA 259+50 LT	20	---	20	120	8	40	120
HARTWILL LN. WEST	18	---	15	56	8	33	56
HARTWILL LN. EAST	20	---	15	62	8	35	62
WEST ST. NW	27	---	---	134	16	27	134
WEST ST. NE	24	---	---	202	8	24	202
WEST ST. SW	25	---	---	240	8	25	240
WEST ST. SE	30	---	---	138	16	30	138
PARK ST. WEST	36	---	---	299	8	36	299
PARK ST. EAST	38	---	---	198	8	38	198
STA. 278+32 LT	20	---	24	150	8	44	150

		INLET COVERS			
		611.8110 ADJUSTING MANHOLE COVERS EA	611.8115 ADJUSTING INLET COVERS EA	SPV.0060.01 SPECIAL INLET COVER EA	SPV.0060.04 ADJUSTING WATER VALVES EA
LOCATION	OFFSET	EA	EA	EA	EA
HARTWILL LN.	WEST	---	1	---	---
WEST ST.	NW	---	---	1	---
WEST ST.	SE	---	---	1	---
CAT 0010 TOTAL		0	1	2	0
241+30	55' RT	1	---	---	---
242+05	38' RT	1	---	---	---
242+07	38' RT	1	---	---	---
253+95	12' LT	---	---	---	1
257+20	15' LT	---	---	---	1
259+43	10' LT	---	---	---	1
259+45	10' RT	1	---	---	---
261+49	10' RT	1	---	---	---
263+42	1' LT	1	---	---	---
263+80	10' LT	---	---	---	1
263+99	10' RT	1	---	---	---
266+75	9' RT	1	---	---	---
269+15	15' LT	---	---	---	1
269+23	10' RT	1	---	---	---
269+25	25' RT	---	---	---	1
269+42	1' RT	1	---	---	---
269+43	24' LT	1	---	---	---
269+80	15' LT	---	---	---	1
272+10	CL	1	---	---	---
275+14	CL	1	---	---	---
275+30	10' LT	---	---	---	1
278+11	1' LT	1	---	---	---
278+25	10' RT	1	---	---	---
CAT 0020 TOTAL		15	0	0	8
PROJECT TOTAL		15	1	2	8

NOTE: ALL QTY'S ARE CAT 0010 UNLESS OTHERWISE NOTED

BEAM GUARD RESTORATION										
614.0010						*				
BARRIER SYSTEM			*			*		SEEDING		
GRADING SHAPING			*		SALVAGED		FERTILIZER		SEEDING	
FINISHING			CUT		FILL		TOPSOIL		TEMPORARY	
STATION - STATION	LOCATION	EACH	CY	CY	SY	TYPE B	No. 20	LB	LB	
65+47 - 70+50	RT	1	158	55	189	0.12	5	5		
66+49 - 69+54	LT	1	118	85	275	0.17	7	7		
69+54 - 72+59	LT	1	118	85	275	0.17	7	7		
70+50 - 75+52	RT	1	158	55	189	0.12	5	5		
81+60 - 84+91	RT	1	170	236	632	0.40	17	17		
81+60 - 85+41	LT	1	154	139	480	0.30	13	13		
84+91 - 88+22	RT	1	170	236	632	0.40	17	17		
85+41 - 89+22	LT	1	154	139	480	0.30	13	13		
120+33 - 125+83	RT	1	175	79	196	0.12	5	5		
120+87 - 126+27	LT	1	186	216	58	0.04	2	2		
125+83 - 131+32	RT	1	175	79	196	0.12	5	5		
126+27 - 131+67	LT	1	186	216	58	0.04	2	2		
132+50 - 136+13	LT	1	114	65	249	0.16	7	7		
133+26 - 136+20	RT	1	100	45	237	0.15	6	6		
136+13 - 139+76	LT	1	114	65	249	0.16	7	7		
136+20 - 139+13	RT	1	100	45	237	0.15	6	6		
169+69 - 172+62	LT	1	72	202	427	0.27	12	12		
172+62 - 175+55	LT	1	72	202	427	0.27	12	12		
192+42 - 198+67	LT	1	458	51	303	0.19	8	8		
198+42 - 201+37	RT	1	113	19	155	0.10	4	4		
198+67 - 204+92	LT	1	458	51	303	0.19	8	8		
201+37 - 204+31	RT	1	113	19	155	0.10	4	4		
TOTAL		22	3,636	2,384	6,397	4	173	173		
*NOTE: QUANTITY FOR INFORMATION ONLY										

EROSION CONTROL

STATION - STATION		LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2004 EROSION MAT CLASS I TYPE B SY	628.2008 ERIOSION MAT URBAN CLASS I TYPE B SY	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EA	REMARKS
47+06		LT & RT	---	---	20	---	---	---	CULVERT REPAIR
59+07		LT & RT	---	---	8	---	---	---	CULVERT REPAIR
65+47 - 70+50		RT	435	870	189	---	---	---	
66+49 - 69+54		LT	330	660	275	---	---	---	
69+54 - 72+59		LT	330	660	275	---	---	---	
70+50 - 75+52		RT	435	870	189	---	---	---	
70+70		LT & RT	---	---	46	---	---	3	CULVERT REPAIR
81+60 - 84+91		RT	280	560	632	---	---	---	
81+60 - 85+41		LT	385	770	480	---	---	---	
84+91 - 88+22		RT	280	560	632	---	---	---	
85+41 - 89+22		LT	385	770	480	---	---	---	
120+33 - 125+83		RT	465	930	196	---	---	---	
120+87 - 126+27		LT	475	950	58	---	---	---	
122+40		LT&RT	---	---	---	---	20	---	
125+83 - 131+32		RT	465	930	196	---	---	---	
126+27 - 131+67		LT	475	950	58	---	---	---	
132+50 - 136+13		LT	305	610	249	---	---	---	
133+26 - 136+20		RT	255	510	237	---	---	---	
136+13 - 139+76		LT	305	610	249	---	---	---	
136+20 - 139+13		RT	255	510	237	---	---	---	
169+69 - 172+62		LT	390	780	427	---	---	---	
172+62 - 175+55		LT	390	780	427	---	---	---	
179+04		RT	---	---	9	---	---	---	CULVERT REPAIR
192+42 - 198+67		LT	608	1,215	303	---	---	---	
194+45 195+45		RT	---	---	45	---	---	3	
198+42 - 201+37		RT	258	515	155	---	---	---	
198+67 - 204+92		LT	608	1,215	303	---	---	---	
201+37 - 204+31		RT	258	515	155	---	---	---	
219+50		RT	---	---	21	---	---	---	CULVERT REPAIR
230+50 - 234+50		RT	325	650	---	281	---	---	
230+50 - 236+50		LT	590	1,180	---	480	---	---	
239+00 - 243+00		RT	330	660	---	480	---	---	
UNDISTRIBUTED			485	970	682	159	---	---	
TOTAL			10,100	20,200	7,200	1,400	20	6	

NOTE: ALL QTY'S ARE CAT 0010 UNLESS OTHERWISE NOTED

MOBILIZATIONS EROSION CONTROL

	628.1910 EMERGENCY EROSION CONTROL EACH	628.1905 EROSION CONTROL EACH
PROJECT LIMITS	3	3
TOTAL	3	3

MARKERS ROW

STATION	LOCATION	OFFSET FT	R/W POINT NO	633.5100 POSTS EACH
240+35.00	STH 121 (RT)	49.59	101	1
242+25.00	STH 121 (RT)	49.45	104	1
8+98.60	TOWER DR. (RT)	28.84	103	1
9+09.01	TOWER DR. (LT)	31.65	102	1
TOTAL				4

MARKERS CULVERT END

STATION	LOCATION	633.5200 EACH
16+95	STH 121 (LT & RT)	2
28+05	STH 121 (LT & RT)	2
47+05	STH 121 (LT & RT)	2
59+05	STH 121 (LT & RT)	2
69+05	STH 121 (LT & RT)	2
70+70	STH 121 (LT & RT)	2
84+15	STH 121 (LT & RT)	2
111+00	STH 121 (LT & RT)	2
123+50	STH 121 (LT & RT)	2
136+50	STH 121 (LT & RT)	2
151+50	STH 121 (LT & RT)	2
162+50	STH 121 (LT & RT)	2
173+25	STH 121 (LT & RT)	2
177+80	STH 121 (LT & RT)	2
179+05	STH 121 (LT & RT)	2
194+95	STH 121 (LT & RT)	2
201+70	STH 121 (LT & RT)	2
212+90	STH 121 (LT & RT)	2
219+50	STH 121 (LT & RT)	2
228+40	STH 121 (LT & RT)	2
233+25	STH 121 (LT & RT)	2
248+90	STH 121 (LT & RT)	2
252+95	STH 121 (LT & RT)	2
TOTAL		46

SIGN LISTING

SIGN NO.	SIGN CODE	MESSAGE	SIZE	637.2210	637.2230	POST WOOD				REMARKS
				SIGN TYPE II	SIGN TYPE II	4" X 6"				
				REFLECTIVE	REFLECTIVE	634.0616	634.0618	634.0620	634.0622	
				H SF	F SF	16-FT EACH	18-FT EACH	20-FT EACH	22-FT EACH	
1-01	J2-3	SOUTH/93/ADV LT ARROW; WEST/121/ADV RT ARROW; NORTH/93/ADV RT ARROW	72" x 57"	28.50	-	-	-	-	2	
1-02	J1-1	JCT/93	24" x 39"	6.50	-	-	-	1	-	
1-03	W3-1	STOP AHEAD	36" x 36"	-	9.00	-	-	1	-	
1-04	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
1-05	R1-2	STOP	30" x 30"	5.18	-	1	-	-	-	
1-06	R2-1	SPEED LIMIT 35	24" x 30"	5.00	-	-	1	-	-	
1-07	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
1-08	R2-1	SPEED LIMIT 45	24" x 30"	5.00	-	-	1	-	-	
1-09	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
1-11	I55-56	ADOPT-A-HIGHWAY (ROYAL CR. UNION WHITEHALL OFFICE)	30" x 36"	7.50	-	-	-	1	-	
1-12	W14-3	NO PASSING ZONE	48" x 36"	-	6.00	-	-	-	-	SAME POST AS SIGN NO. 1-11
1-13	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
1-14	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
1-15	R2-1	SPEED LIMIT 45	24" x 30"	5.00	-	-	1	-	-	
1-16	D1-2	WESTERN TECH COLLEGE/RT ARROW	84" x 24"	14.00	-	-	2	-	-	
1-17	I2-3	INDEPENDENCE POP. 1336	78" x 24"	13.00	-	-	2	-	-	
1-18	R2-1	SPEED LIMIT 45	24" x 30"	5.00	-	-	1	-	-	
1-19	D1-2	WESTERN TECK COLLEGE/LT ARROW	84" x 24"	14.00	-	-	2	-	-	
1-20	R2-1	SPEED LIMIT 45	24" x 30"	5.00	-	-	1	-	-	
1-21	R1-1	STOP	30" x 30"	5.18	-	-	-	1	-	
2-01	R10-64	NO ENGINE BREAKING	30" x 36"	7.50	-	-	-	1	-	
2-02	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
2-03	R2-1	SPEED LIMIT 45	24" x 30"	5.00	-	-	1	-	-	
2-04	W14-3	NO PASSING ZONE	48" x 36"	-	6.00	-	-	1	-	
2-05	R2-1	SPEED LIMIT 55	24" x 30"	5.00	-	-	1	-	-	
2-06	W3-5	REDUCE SPEED AHEAD; 45 M.P.H.	36" x 36"	9.00	9.00	-	1	-	-	
2-07	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
3-01	W14-3	NO PASSING ZONE	48" x 36"	-	6.00	-	1	-	-	
3-02	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
3-03	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
3-04	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
4-01	W14-3	NO PASSING ZONE	48" x 36"	-	6.00	-	1	-	-	
5-01	D7-67	Co PARK 1 MILE	42" x 24"	7.00	-	-	1	-	-	
5-02	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
5-03	I55-56	ADOPT-A-HIGHWAY (ROYAL CR. UNION WHITEHALL OFFICE)	30" x 36"	7.50	-	-	1	-	-	
5-04	I55-56	ADOPT-A-HIGHWAY (TREMPEALEAU COUNTY HEALTH CARE CENTER ANNEX)	30" x 36"	7.50	-	-	1	-	-	
5-05	W14-3	NO PASSING ZONE	48" x 36"	-	6.00	-	-	-	-	SAME POST AS SIGN NO. 5-04
5-06	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
5-07	W14-3	NO PASSING ZONE	48" x 36"	-	6.00	-	1	-	-	
5-08	J4-1	JCT/COUNTY QQ	24" x 36"	6.00	-	-	1	-	-	

CONTINUED ON SHEET 9 AND 10

NOTE: ALL QTY'S ARE CAT 0010 UNLESS OTHERWISE NOTED

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SIGN LISTING CONTINUED

SIGN NO.	SIGN CODE	MESSAGE	SIZE	637.2210	637.2230	POST WOOD				REMARKS
				SIGN TYPE II	SIGN TYPE II	4" X 6"				
				REFLECTIVE	REFLECTIVE	634.0616	634.0618	634.0620	634.0622	
				H SF	F SF	16-FT EACH	18-FT EACH	20-FT EACH	22-FT EACH	
5-09	W10-1	RR XING	36" x 36"	-	7.07	-	1	-	-	
5-10	D1-3	TREMPEALEAU COUNTY HIGHWAY DEPARTMENT RIGHT ARROW	102" x 36"	25.50	-	-	2	-	-	
6-02	J13-1	121/LT&RT ARROW	24" x 45"	7.50	-	-	-	1	-	
6-03	J13-1	COUNTY QQ/LT ARROW	24" x 45"	7.50	-	-	-	1	-	
6-04	D1-3	TREMPEALEAU COUNTY HIGHWAY DEPARTMENT LEFT ARROW	102" x 36"	25.50	-	-	2	-	-	
6-05	W10-1	RR XING	36" x 36"	-	7.07	-	1	-	-	
6-07	J13-1	COUNTY QQ/RT ARROW	24" x 45"	7.50	-	-	-	1	-	
6-08	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
6-09	J1-1	JCT/COUNTY Q	24" x 39"	6.50	-	-	1	-	-	
6-10	J1-1	JCT/COUNTY QQ	24" x 39"	6.50	-	-	1	-	-	
6-11	J13-1	COUNTY Q/LT ARROW	24" x 45"	7.50	-	-	-	1	-	
6-12	J1-1	JCT/COUNTY Q	24" x 39"	6.50	-	-	1	-	-	
6-13	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
6-14	J13-1	COUTNY Q/RT ARROW	24" x 45"	7.50	-	-	-	1	-	
6-15	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
6-16	J1-1	JCT/COUNTY QQQ	24" x 39"	6.50	-	-	1	-	-	
6-17	W11-6	SNOWMOBILE XING SYMBOL	30" x 30"	6.25	-	-	1	-	-	
6-18	J13-1	COUNTY QQQ/LT ARROW	24" x 45"	7.50	-	-	-	1	-	
6-19	D1-2	TREMPEALEAU CO. HEALTH CARE CENTER W/ LEFT ARROW	120" x 24"	20.00	-	-	2	-	-	
7-01	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
7-02	J13-1	COUNTY QQQ/RT ARROW	24" x 45"	7.50	-	-	-	1	-	
7-03	D1-2	TREMPEALEAU CO. HEALTH CARE CENTER W/ RIGHT ARROW	120" x 24"	20.00	-	-	2	-	-	
7-04	J1-1	JCT/COUNT QQQ	24" x 39"	6.50	-	-	1	-	-	
7-05	W14-3	NO PASSING ZONE	48" x 36"	-	6.00	-	1	-	-	
7-06	W14-3	NO PASSING ZONE	48" x 36"	-	6.00	-	1	-	-	
7-07	W1-2R	ROAD CURVES RIGHT	30" x 30"	-	6.25	-	1	-	-	
8-01	W14-3	NO PASSING ZONE	48" x 36"	-	6.00	-	1	-	-	
8-02	W1-2L	ROAD CURVES LEFT SYMBOL	30" x 30"	-	6.25	-	1	-	-	
8-03	W3-5	SPEED LIMIT REDUCTION AHEAD 45 SYMBOL	36" x 36"	-	9.00	-	1	-	-	
8-04	W14-3	NO PASSING ZONE	48" x 36"	-	6.00	-	-	-	-	SAME POST AS SIGN NO. 8-03
8-05	D7-67	Co PARK 1 MILE	42" x 24"	7.00	-	-	1	-	-	
8-06	R2-1	SPEED LIMIT 55	24" x 30"	5.00	-	-	1	-	-	
8-07	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
8-08	I55-56	ADOPT-A-HIGHWAY (TREMPEALEAU COUNTY HEALTH CARE CENTER ANNEX)	30" x 36"	7.50	-	-	1	-	-	
8-09	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
8-11	I2-3	WHITEHALL POP.	60" x 24"	10.00	-	-	2	-	-	
8-14	R2-1	SPEED LIMIT 45	24" x 30"	5.00	-	-	1	-	-	
8-15	R1-1	STOP	30" x 30"	5.18	-	-	1	-	-	
8-16	R10-64	NO ENGINE BREAKING	30" x 36"	7.50	-	-	-	1	-	
8-17	W3-5	SPEED LIMIT REDUCTION AHEAD 30 SYMBOL	36" x 36"	-	9.00	-	-	-	-	MOUNT ON EXISITNG POLE
9-01	R2-1	SPEED LIMIT 45	24" x 30"	5.00	-	-	1	-	-	
9-01A	S5-2	END SCHOOL ZONE	24" X 30"	5.00	-	-	-	-	-	SAME POST AS SIGN NO. 9-01
9-02	S3-1	STOP SCHOOL BUS FLASHING RED LIGHTS	36" x 36"	-	9.00	-	1	-	-	
9-03	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
9-04	D11-8	SNOWMOBILE & ATV ROUTE W/ SYMBOL	24" x 18"	3.00	-	-	1	-	-	

CONTINUED ON SHEET 8 AND 10

SIGN LISTING CONTINUED

SIGN NO.	SIGN CODE	MESSAGE	SIZE	637.2210	637.2230	POST WOOD				REMARKS
				SIGN TYPE II	SIGN TYPE II	4" X 6"				
				REFLECTIVE	REFLECTIVE	634.0616	634.0618	634.0620	634.0622	
				H SF	F SF	16-FT EACH	18-FT EACH	20-FT EACH	22-FT EACH	
9-05	M6-1	STRAIGHT ARROW	21" x 21"	3.06	-	-	-	-	-	SAME POST AS SIGN NO. 9-04 SAME POST AS SIGN NO. 9-07
9-06	J4-1	WEST/121	24" x 36"	6.00	-	-	-	-	-	
9-07	D2-1	INDEPENDENCE 5	90" x 15"	9.38		-	2	-	-	
9-08	W11-6	SNOWMOBILE CROSSING	30" x 30"	-	6.25	-	1	-	-	
9-09	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
9-10	S1-1	SCHOOL ZONE	36" x 36"	-	6.75	-	-	1	-	SAME POST AS SIGN NO. 9-10
9-11	S16-7P	DOWN LEFT ARROW	30" x 18"	-	3.75	-	-	-	-	
9-12	S4-54	SCHOOL/SPEED LIMIT 20	24" x 48"	-	8.00	-	-	1	-	
9-13	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
9-14	R2-1	SPEED LIMIT 30	24" x 30"	5.00	-	-	1	-	-	
9-15	S1-1	SCHOOL ZONE	36" x 36"	-	6.75	-	-	1	-	SAME POST AS SIGN NO. 9-15
9-16	S16-9P	AHEAD	30" x 18"	-	3.75	-	-	-	-	
9-17	S4-51	SCHOOL SPEED LIMIT 20	24" x 48"	-	8.00	-	-	1	-	
9-18	S1-1	SCHOOL ZONE	36" x 36"	-	6.75	-	-	1	-	SAME POST AS SIGN NO. 9-18
9-19	S16-7P	DOWN LEFT ARROW	30" x 18"	-	3.75	-	-	-	-	
9-20	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
9-21	S1-1	SCHOOL ZONE	36" x 36"	-	6.75	-	-	1	-	SAME POST AS SIGN NO. 9-21
9-22	S16-9P	AHEAD	30" x 18"	-	3.75	-	-	-	-	
9-23	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
9-24	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
9-26	W14-3	NO PASSING ZONE	48" x 36"	-	6.00	-	-	-	-	MOUNT ON EXISITNG POLE MOUNT ON EXISITNG POLE MOUNT ON EXISITNG POLE
9-27	R2-1	SPEED LIMIT 30	24" x 30"	5.00	-	-	-	-	-	
9-28	R2-1	SPEED LIMIT 30	24" x 30"	5.00	-	-	-	-	-	
9-29	S5-2	END SCHOOL ZONE	24" x 30"	5.00	-	-	-	-	-	SAME POST AS SIGN NO. 9-28
9-31	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
9-32	W3-1	STOP AHEAD	36" x 36"	-	9.00	-	-	1	-	
9-33	J1-1	JCT/53	24" x 39"	6.50	-	-	-	1	-	MOUNT ON EXISITNG POLE
10-01	D9-2	HOSPITAL SYMBOL	24" x 24"	4.00	-	-	-	1	-	
10-02	MB6-1	LEFT ARROW	21" x 21"	3.06	-	-	-	-	-	
10-03	R2-1	SPEED LIMIT 30	24" x 30"	5.00	-	-	-	1	-	SAME POST AS SIGN NO. 10-01
10-04	R7-1R	NO PAKING ANY TIME W/ RIGHT ARROW	18" x 24"	3.00	-	-	-	-	-	
10-05	J4-1	WEST/121	24" x 36"	6.00	-	-	-	1	-	
10-06	D9-2	HOSPITAL SYMBOL	24" x 24"	4.00	-	-	1	-	-	SAME POST AS SIGN NO. 10-06
10-07	MB6-1	RIGHT ARROW	21" x 21"	3.06	-	-	-	-	-	
10-08	R1-1	STOP	30" x 30"	5.18	-	1	-	-	-	
10-09	R3-8F	LEFT ARROW ONLY W/ RIGHT ARROW ONLY	36" x 30"	7.50	-	-	1		-	SAME POST AS SIGN NO. 10-03
10-10	R7-1L	NO PARKING ANY TIME W/ LEFT ARROW	18" x 24"	3.00	-	-	1	-	-	
10-11	J3-3	NORTH/53/ADV LT ARROW; EAST/121/ADV LT ARROW; SOUTH/53/ADV RT ARROW	72" x 57"	28.50	-	-	-	-	2	
10-12	D1-3	PIGEON FALLS, OSSEO W/ LT ARROW, ETTRICK W/ RT ARROW	84" x 36"	21.00		-	-	2	-	SAME POST AS SIGN NO. 10-06
10-13	J3-3	NORTH/53/LT ARROW; EAST/121/LT ARROW; SOUTH/53/RT ARROW	72" x 57"	28.50	-	-	-	-	2	
10-14	R1-1	STOP	36" x 36"	7.46	-	-	-	-	1	
TOTAL				719.49	210.89	27	60	27	7	

NOTE: ALL QTY'S ARE CAT 0010 UNLESS OTHERWISE NOTED

NOTE: ALL QTY'S ARE CAT 0010 UNLESS OTHERWISE NOTED

REMOVING SIGNS TYPE II & REMOVING SMALL SIGN SUPPORTS

SIGN NO.	MESSAGE	638.2102	638.2602	638.3000	REMARKS
		MOVING SIGN TYPE II EACH	REMOVING SIGNS TYPE II EACH	REMOVING SIGN SUPPORTS EACH	
1-01	SOUTH/93/ADV LT ARROW; WEST/121/ADV RT ARROW; NORTH/93/ADV RT ARROW	-	1	2	
1-02	JCT/93	-	1	1	
1-03	STOP AHEAD	-	1	1	
1-04	STOP	-	1	1	
1-05	STOP	-	1	1	
1-06	SPEED LIMIT 35	-	1	1	
1-07	STOP	-	1	1	
1-08	SPEED LIMIT 45	-	1	1	
1-09	STOP	-	1	1	
1-10	STOP	-	1	1	
1-11	ADOPT-A-HIGHWAY	-	1	1	
1-12	NO PASSING ZONE	-	1	-	SAME SIGN POST AS SIGN NO. 1-11
1-13	STOP	-	1	1	
1-14	STOP	-	1	1	
1-15	SPEED LIMIT 45	-	1	1	
1-16	WESTERN TECH COLLEGE/RT ARROW	-	1	2	
1-17	INDEPENDENCE POP. 1244	-	1	2	
1-18	SPEED LIMIT 45	-	1	1	
1-19	WESTERN TECK COLLEGE/LT ARROW	-	1	2	
1-20	SPEED LIMIT 45	-	1	1	
1-21	STOP	-	1	1	
2-01	NO ENGINE BREAKING	-	1	1	
2-02	STOP	-	1	1	
2-03	SPEED LIMIT 45	-	1	1	
2-04	NO PASSING ZONE	-	1	1	
2-05	SPEED LIMIT 55	-	1	1	
2-06	REDUCE SPEED AHEAD; 45 M.P.H.	-	2	1	
2-07	STOP	-	1	1	
3-01	NO PASSING ZONE	-	1	1	
3-02	STOP	-	1	1	
3-03	STOP	-	1	1	
3-04	STOP	-	1	1	
4-01	NO PASSING ZONE	-	1	1	
5-01	Co PARK 1 MILE	-	1	1	
5-02	STOP	-	1	1	
5-03	ADOPT-A-HIGHWAY	-	1	1	
5-04	ADOPT-A-HIGHWAY	-	1	1	
5-05	NO PASSING ZONE	-	1	-	SAME SIGN POST AS SIGN NO. 5-04
5-06	STOP	-	1	1	
5-07	NO PASSING ZONE	-	1	1	
5-08	JCT/COUNTY QQ	-	1	1	
5-09	RR XING	-	1	1	
5-10	TREMPEALEAU COUNTY HIGHWAY DEPARTMENT RIGHT ARROW	-	1	2	
6-01	RAIL ROAD CROSSING	-	-	-	SIGN REPLACED BY RAILROAD
6-02	121/LT&RT ARROW	-	1	1	

CONTINUED ON SHEET 12 AND 13

NOTE: ALL QTY'S ARE CAT 0010 UNLESS OTHERWISE NOTED

REMOVING SIGNS TYPE II & REMOVING SMALL SIGN SUPPORTS CONTINUED

SIGN NO.	MESSAGE	638.2102	638.2602	638.3000	REMARKS
		MOVING SIGN TYPE II EACH	REMOVING SIGNS TYPE II EACH	REMOVING SIGN SUPPORTS EACH	
6-03	COUNTY QQ/LT ARROW	-	1	1	
6-04	TREMPEALEAU COUNTY HIGHWAY DEPARTMENT LEFT ARROW	-	1	2	
6-05	RR XING	-	1	1	
6-06	RAIL ROAD CROSSING	-	-	-	SIGN REPLACED BY RAILROAD
6-07	COUNTY QQ/RT ARROW	-	1	1	
6-08	STOP	-	1	1	
6-09	JCT/COUNTY Q	-	1	1	
6-10	JCT/COUNTY QQ	-	1	1	
6-11	COUNTY Q/LT ARROW	-	1	1	
6-12	JCT/COUNTY Q	-	1	1	
6-13	STOP	-	1	1	
6-14	COUTNY Q/RT ARROW	-	1	1	
6-15	STOP	-	1	1	
6-16	JCT/COUNTY QQQ	-	1	1	
6-17	SNOWMOBILE XING SYMBOL	-	1	1	
6-18	COUNTY QQQ/LT ARROW	-	1	1	
6-19	TREMPEALEAU CO. HEALTH CARE CENTER W/ LEFT ARROW	-	1	2	
7-01	STOP	-	1	1	
7-02	COUNTY QQQ/RT ARROW	-	1	1	
7-03	TREMPEALEAU CO. HEALTH CARE CENTER W/ RIGHT ARROW	-	1	2	
7-04	JCT/COUNT QQQ	-	1	1	
7-05	NO PASSING ZONE	-	1	1	
7-06	NO PASSING ZONE	-	1	1	
7-07	ROAD CURVES RIGHT	-	1	1	
8-01	NO PASSING ZONE	-	1	1	
8-02	ROAD CURVES LEFT SYMBOL	-	1	1	
8-03	SPEED LIMIT REDUCTION AHEAD 45 SYMBOL	-	1	1	
8-04	NO PASSING ZONE	-	1	-	SAME SIGN POST AS SIGN NO. 8-03
8-05	Co PARK 1 MILE	-	1	1	
8-06	SPEED LIMIT 55	-	1	1	
8-07	STOP	-	1	1	
8-08	ADOPT-A-HIGHWAY	-	1	1	
8-09	STOP	-	1	1	
8-10	FIRE TRUCK XING SYMBOL	-	1	1	
8-11	WHITEHALL POP. 1651	-	1	1	
8-12	NEIGHBORHOOD WATCH	1	-	-	SAME SIGN POST AS SIGN NO. 8-11
8-13	FIRE TRUCK XING SYMBOL	-	1	1	
8-14	SPEED LIMIT 45	-	1	1	
8-15	STOP	-	1	1	
8-16	NO ENGINE BREAKING	-	1	1	
8-17	SPEED LIMIT REDUCTION AHEAD 30 SYMBOL	-	1	1	
9-01	SPEED LIMIT 45	-	1	1	
9-02	STOP SCHOOL BUS FLASHING RED LIGHTS	-	1	1	
9-03	STOP	-	1	1	
9-04	SNOWMOBILE & ATV ROUTE W/ SYMBOL		1	1	

CONTINUED ON SHEET 11 AND13

REMOVING SIGNS TYPE II & REMOVING SMALL SIGN SUPPORTS CONTINUED

SIGN NO.	MESSAGE	638.2102	638.2602	638.3000	REMARKS
		MOVING SIGN TYPE II EACH	REMOVING SIGNS TYPE II EACH	REMOVING SIGN SUPPORTS EACH	
9-05	STRAIGHT ARROW	-	1	-	SAME SIGN POST AS SIGN NO. 9-04
9-06	WEST/121	-	1	1	
9-07	INDEPENDENCE 5	-	1	-	
9-08	SNOWMOBILE CROSSING	-	1	1	
9-09	STOP	-	1	1	
9-10	SCHOOL ZONE	-	1	1	SAME SIGN POST AS SIGN NO. 9-10
9-11	DOWN LEFT ARROW	-	1	-	
9-12	SCHOOL/SPEED LIMIT 20	-	1	1	
9-13	STOP	-	1	1	
9-14	SPEED LIMIT 30	-	1	1	
9-15	SCHOOL ZONE	-	1	1	SAME SIGN POST AS SIGN NO. 9-15
9-16	AHEAD	-	1	-	
9-17	SCHOOL SPEED LIMIT 20	-	1	1	
9-18	SCHOOL ZONE	-	1	1	
9-19	DOWN LEFT ARROW	-	1	-	
9-20	STOP	-	1	1	SAME SIGN POST AS SIGN NO. 9-21
9-21	SCHOOL ZONE	-	1	1	
9-22	AHEAD	-	1	-	
9-23	STOP	-	1	1	
9-24	STOP	-	1	1	
9-25	WHITEHALL	1	-	-	VILLAGE SIGN
9-26	NO PASSING ZONE	-	1	-	MOUNTED ON LIGHT POLE
9-27	SPEED LIMIT 30	-	1	-	MOUNTED ON LIGHT POLE
9-28	SPEED LIMIT 30	-	1	-	MOUNTED ON LIGHT POLE
9-29	END SCHOOL ZONE	-	1	-	MOUNTED ON LIGHT POLE
9-30	WHITEHALL	1	-	-	VILLAGE SIGN
9-31	STOP	-	1	1	MOUNTED ON LIGHT POLE
9-32	STOP AHEAD	-	1	-	
9-33	JCT/53	-	1	1	
10-01	HOSPITAL SYMBOL	-	1	1	
10-02	LEFT ARROW	-	1	-	
10-03	SPEED LIMIT 30	-	1	1	SAME SIGN POST AS SIGN NO. 10-03
10-04	NO PAKING ANY TIME W/ RIGHT ARROW	-	1	-	
10-05	WEST/121	-	1	1	
10-06	HOSPITAL SYMBOL	-	1	1	
10-07	RIGHT ARROW	-	1	-	
10-08	STOP	-	1	1	SAME POST AS SIGN NO. 10-09
10-09	LEFT ARROW ONLY W/ RIGHT ARROW ONLY	-	1	1	
10-10	NO PARKING ANY TIME W/ LEFT ARROW	-	1	-	
10-11	NORTH/53/ADV LT ARROW; EAST/121/ADV LT ARROW; SOUTH/53/ADV RT ARROW	-	1	1	
10-12	PIGEON FALLS, OSSEO W/ LT ARROW, ETRICK W/RT ARROW	-	1	1	
10-13	NORTH/53/LT ARROW; EAST/121/LT ARROW; SOUTH/53/RT ARROW	-	1	1	
10-14	STOP	-	1	1	
TOTAL		3	129	118	

NOTE: ALL QTY'S ARE CAT 0010 UNLESS OTHERWISE NOTED

3

TRAFFIC CONTROL ITEMS

			643.0300		643.0900		
			DRUMS		SIGNS		
DIRECTION	LOCATION	SIGN MESSAGE	EACH	DAYS	EACH	DAYS	REMARKS
EB	STH 121	121 / ROAD WORK AHEAD	---	---	2	168	
EB	STH 121	121 / ROAD WORK 1000 FT	---	---	2	168	
EB	STH 121	121 / ROAD WORK 500 FT	---	---	2	168	
NB	STH 93	121 / ROAD WORK AHEAD	---	---	2	168	
NB	STH 93	121 / ROAD WORK 1000 FT	---	---	2	168	
NB	STH 93	121 / ROAD WORK 500 FT	---	---	2	168	
WB	STH 121	END ROAD WORK	---	---	1	84	
NB	USH 53	121 / ROAD WORK AHEAD	---	---	2	168	
NB	USH 53	121 / ROAD WORK 1000 FT	---	---	2	168	
NB	USH 53	121 / ROAD WORK 500 FT	---	---	2	168	
EB	STH 121	END ROAD WORK	---	---	1	84	
WB	STH 121	121 / ROAD WORK AHEAD	---	---	2	168	
WB	STH 121	121 / ROAD WORK 1000 FT	---	---	2	168	
WB	STH 121	121 / ROAD WORK 500 FT	---	---	2	168	
EB & WB	STH 121	*	314	6280	123	2460	SHLD CLOSURE
TOTAL			314	6280	149	4,644	

* NOTE: SEE S.D.D. TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY FOR ITEM #643.0900, AND 643.0300 LOCATIONS AND SPACING

MISCELLANEOUS PAVEMENT MARKING

		646.0126	647.0110	647.0166	647.0356	647.0566	647.0726	REMARKS
		EPOXY 8-INCH	RAILROAD CROSSING EPOXY	ARROWS TYPE 2	EPOXY WORDS	STOP LINE	DIAGONAL	
STATION - STATION	LOCATION	LF	EACH	EACH	EACH	LF	LF	
50+12 - 54+63	MEDIAN	---	---	---	---	---	140	YELLOW SOLID
54+75 - 57+00	TURN LANE	225	---	---	---	---	---	WHITE SOLID
55+88	TURN LANE	---	---	---	1	---	---	ONLY
55+00 - 56+85	TURN LANE	---	---	2	---	---	---	TURN LEFT ARROW
57+24	LT	---	---	---	---	20	---	WHITE SOLID
57+90 - 63+70	MEDIAN	---	---	---	---	---	210	YELLOW SOLID
58+16 - 60+16	TURN LANE	200	---	---	---	---	---	WHITE SOLID
160+50	LT & RT	---	2	---	---	---	---	RR MARKINGS
228+86 - 233+25	MEDIAN	---	---	---	---	---	140	YELLOW SOLID
233+46 - 236+96	TURN LANE	350	---	---	---	---	---	WHITE SOLID
235+19	TURN LANE	---	---	---	1	---	---	ONLY
233+46 - 236+96	TURN LANE	---	---	2	---	---	---	TURN LEFT ARROW
237+91 - 240+91	MEDIAN	---	---	---	---	---	152	YELLOW SOLID
241+75 - 244+00	TURN LANE	225	---	---	---	---	---	WHITE SOLID
242+87	TURN LANE	---	---	---	1	---	---	ONLY
241+75 - 244+00	TURN LANE	---	---	2	---	---	---	TURN LEFT ARROW
244+13 - 249+35	MEDIAN	---	---	---	---	---	193	YELLOW SOLID
TOTAL		1000	2	6	3	20	835	

NOTE: ALL QTY'S ARE CAT 0010 UNLESS OTHERWISE NOTED

TRAFFIC CONTROL DETOUR SIGNING

		643.0420	643.0705			643.0900	643.1050	643.3000
		TRAFFIC CONTROL	TRAFFIC CONTROL			TRAFFIC CONTROL	SIGNS PCMS	TRAFFIC CONTROL
		BARRICADES	LIGHTS			SIGNS		DETOUR
		TYPE III	TYPE A					SIGNS
LOCATION	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS
PROJECT	18	180	28	280	12	120	2	14
TOTAL	18	180	28	280	12	120	2	14

NOTE: SEE DETOUR PLAN SHEETS FOR SIGN LOCATIONS

TRAFFIC CONTROL COVERING SIGNS

NUMBER OF SIGNS	NUMBER OF CYLCES	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH
10	1	10
		10

TRAFFIC CONTROL SIGNS FIXED MESSAGE

MESSAGE	643.1000 SF	REMARKS
WHITEHALL STR ARROW	6.3	DETAIL C
WHITEHALL LT ARROW	6.3	DETAIL F
WHITEHALL STR ARROW	6.3	DETAIL F
WHITEHALL RT ARROW	6.3	DETAIL F
INDEPENDENCE STR ARROW	8.1	DETAIL I
INDEPENDENCE RT ARROW	8.1	DETAIL J
INDEPENDENCE LT ARROW	8.1	DETAIL J
INDEPENDENCE STR ARROW	8.1	DETAIL K
TOTAL		57.6

PAVEMENT MARKING EDGELINE

646.0106 EPOXY 4-INCH				
STATION - STATION	LOCATION	LF	REMARKS	
3+99 - 11+84	EDGELINE LT	785	WHITE SOLID	
3+99 - 11+19	EDGELINE RT	720	WHITE SOLID	
11+19 - 11+74	EDGELINE RT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
12+43 - 26+40	EDGELINE RT	1,400	WHITE SOLID	
12+54 - 13+09	EDGELINE LT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
13+09 - 25+27	EDGELINE LT	1,220	WHITE SOLID	
26+03 - 26+58	EDGELINE LT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
26+40 - 26+95	EDGELINE RT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
26+58 - 36+19	EDGELINE LT	961	WHITE SOLID	
27+53 - 73+65	EDGELINE RT	4,615	WHITE SOLID	
37+05 - 37+60	EDGELINE LT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
37+60 - 56+76	EDGELINE LT	1,920	WHITE SOLID	
58+16 - 90+33	EDGELINE LT	3,220	WHITE SOLID	
73+65 - 74+20	EDGELINE RT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
75+19 - 89+27	EDGELINE RT	1,408	WHITE SOLID	
89+27 - 89+82	EDGELINE RT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
91+16 - 130+76	EDGELINE RT	3,960	WHITE SOLID	
91+59 - 92+14	EDGELINE LT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
92+14 - 131+55	EDGELINE LT	3,945	WHITE SOLID	
130+76 - 131+31	EDGELINE RT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
132+43 - 160+08	EDGELINE RT	2,765	WHITE SOLID	
132+87 - 133+42	EDGELINE LT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
133+42 - 237+13	EDGELINE LT	10,375	WHITE SOLID	
160+08 - 160+63	EDGELINE RT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
161+65 - 171+45	EDGELINE RT	980	WHITE SOLID	
171+45 - 172+00	EDGELINE RT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
173+07 - 240+64	EDGELINE RT	6,760	WHITE SOLID	
237+96 - 245+75	EDGELINE LT	780	WHITE SOLID	
240+91 - 249+16	EDGELINE RT	825	WHITE SOLID	
246+69 - 250+17	EDGELINE LT	348	WHITE SOLID	
249+16 - 249+71	EDGELINE RT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
251+00 - 258+45	EDGELINE RT	745	WHITE SOLID	
251+28 - 251+83	EDGELINE LT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
251+83 - 257+20	EDGELINE LT	540	WHITE SOLID	
257+72 - 258+27	EDGELINE LT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
258+27 - 263+90	EDGELINE LT	565	WHITE SOLID	
258+45 - 259+00	EDGELINE RT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
259+60 - 268+50	EDGELINE RT	890	WHITE SOLID	
264+33 - 264+88	EDGELINE LT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
264+88 - 269+05	EDGELINE LT	418	WHITE SOLID	
268+50 - 269+05	EDGELINE RT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
269+80 - 270+35	EDGELINE LT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
270+35 - 281+20	EDGELINE LT	1,085	WHITE SOLID	
270+35 - 277+15	EDGELINE RT	680	WHITE SOLID	
277+15 - 277+70	EDGELINE RT	15	WHITE 3-FT SKIPS WITH 9-FT GAP	
278+55 - 281+20	EDGELINE RT	265	WHITE SOLID	
TOTAL		52,475		

NOTE: ALL QTY'S ARE CAT 0010 UNLESS OTHERWISE NOTED

PAVEMENT MARKING CENTERLINE

649.0100 TEMP. LOCATING PAVEMENT NO-PASSING MARKING ZONES				
STATION - STATION	LF	LF	MI	REMARKS
3+99 - 10+00	1,203	1,203	---	YELLOW DOUBLE
10+00 - 17+75	969	837	---	YELLOW SOLID (WB) & SKIPS (EB)
17+75 - 45+20	686	220	---	YELLOW SKIPS
45+20 - 49+83	579	500	---	YELLOW SOLID (EB) & SKIPS (WB)
49+83 - 54+75	1,889	984	---	* YELLOW DOUBLE (INT. MEDIAN)
54+75 - 57+00	450	450	---	YELLOW DOUBLE
57+91 - 63+74	2,303	1,166	---	* YELLOW DOUBLE (INT. MEDIAN)
63+74 - 70+08	1,268	1,268	---	YELLOW DOUBLE
70+08 - 74+30	528	456	---	YELLOW SOLID (WB) & SKIPS (EB)
74+30 - 106+51	805	258	---	YELLOW SKIPS
106+51 - 117+07	1,320	1,140	---	YELLOW SOLID (EB) & SKIPS (WB)
117+07 - 120+77	740	740	---	YELLOW DOUBLE
120+77 - 130+80	1,254	1,083	---	YELLOW SOLID (WB) & SKIPS (EB)
130+80 - 154+03	581	186	---	YELLOW SKIPS
154+03 - 160+37	793	685	---	YELLOW SOLID (WB) & SKIPS (EB)
160+37 - 185+19	4,964	4,964	---	YELLOW DOUBLE
185+19 - 195+75	1,320	1,140	---	YELLOW SOLID (WB) & SKIPS (EB)
195+75 - 210+53	370	118	---	YELLOW SKIPS
210+53 - 219+51	1,123	970	---	YELLOW SOLID (EB) & SKIPS (WB)
219+51 - 222+15	66	21	---	YELLOW SKIPS
222+15 - 223+36	151	131	---	YELLOW SOLID (WB) & SKIPS (EB)
223+36 - 228+36	1,000	1,000	---	YELLOW DOUBLE
228+36 - 233+46	1,954	1,020	---	* YELLOW DOUBLE (INT. MEDIAN)
233+46 - 236+91	690	690	---	YELLOW DOUBLE
237+91 - 241+00	1,225	618	---	* YELLOW DOUBLE (INT. MEDIAN)
241+75 - 244+00	450	450	---	YELLOW DOUBLE
244+00 - 249+69	2,203	1,138	---	* YELLOW DOUBLE (INT. MEDIAN)
249+69 - 254+69	1,000	1,000	---	DOUBLE YELLOW
254+69 - 261+23	818	706	---	YELLOW SOLID (WB) & SKIPS (EB)
261+23 - 274+43	330	106	---	YELLOW SKIPS
274+43 - 281+20	846	731	---	YELLOW SOLID (EB) & SKIPS (WB)
3+99 - 281+20	---	---	5.25	
TOTAL		33,878	25,979	5.25

PAVEMENT MARKING CROSSWALK EPOXY

STATION	LOCATION	647.0766	647.0776
		EPOXY 6-INCH LF	EPOXY 12-INCH LF
257+45	LT	58	---
259+32	RT	58	---
259+48	MAINLINE	50	---
259+51	MAINLINE	---	91
259+54	MAINLINE	42	---
264+10	LT	45	---
269+10	MAINLINE	40	---
269+16	MAINLINE	55	---
269+43	LT	66	---
269+43	RT	53	---
269+66	MAINLINE	53	---
269+72	MAINLINE	40	---
278+13	RT	96	---
278+35	MAINLINE	56	---
278+41	MAINLINE	44	---
TOTAL		756	91

CONSTRUCTION STAKING

STATION - STATION	LOCATION	650.8000	650.9910	650.9920
		RESURFACING REFFERNCE LF	SUPPLEMENTAL CONTROL LS	SLOPE STAKES LF
3+99 - 281+20	STH 121	27,671	1	---
66+00 - 72+50	STH 121	---	---	650
82+00 - 90+00	STH 121	---	---	800
121+00 131+50	STH 121	---	---	1,050
133+00 - 139+00	STH 121	---	---	600
169+50 - 177+00	STH 121	---	---	750
192+50 - 204+50	STH 121	---	---	1,200
230+50 - 237+00	STH 121	---	---	650
239+00 - 243+00	STH 121	---	---	400
9+00 -9+50	TOWER DR	---	---	50
PROJECT TOTAL		27,671	1	6,150

SAW CUTS

STATION	LOCATION	690.0150	690.0250	REMARKS
		SAWING ASPHALT LF	SAWING CONCRETE LF	
3+99	MAINLINE	36	---	
4+10	LT	14	---	
4+70	LT	---	17	
6+50	LT	---	31	
7+35	RT	---	13	
7+40	LT	---	15	
8+08	RT	14	---	
8+26	LT	28	---	
10+00	LT	30	---	
10+55	LT	22	---	
12+10	LT	34	---	
12+10	RT	28	---	
13+55	RT	41	---	
14+35	RT	34	---	
14+59	LT	11	---	
15+17	RT	31	---	
17+64	RT	37	---	
19+13	LT	-	15	
19+48	RT	35	---	
20+21	RT	45	---	
20+92	LT	19	---	
21+24	RT	11	---	
22+25	RT	22	---	
23+66	RT	35	---	
23+68	LT	---	12	
24+63	LT	---	16	
25+18	RT	12	---	CURB REPLACEMENT
25+48	RT	30	---	
25+55	LT	29	---	
26+15	LT	21	---	
27+24	RT	25	---	
27+35	LT	26	---	
29+15	LT	25	---	
31+07	LT	24	---	
36+50	LT	26	---	
38+64	LT	18	---	
39+70	RT	22	---	
40+42	LT	14	---	
49+09	RT	13	---	
54+62	RT	19	---	
57+39	LT	36	---	
60+65	RT	18	---	
74+86	RT	22	---	
90+50	RT	34	---	
91+00	LT	25	---	

CONTINUED ON SHEET 17

NOTE: ALL QTY'S ARE CAT 0010 UNLESS OTHERWISE NOTED

SAW CUTS CONT.

690.0150 690.0250
SAWING SAWING
ASPHALT CONCRETE

STATION	LOCATION	LF	LF	REMARKS
131+81	RT	26	---	
132+22	LT	27	---	
158+75	LT	47	---	
161+12	RT	35	---	
172+70	RT	30	---	
179+32	LT	13	---	
181+73	LT	17	---	
183+80	LT	40	---	
188+75	LT	30	---	
205+82	LT	21	---	
216+28	LT	26	---	
231+40	RT	28	---	
232+65	RT	11	---	
237+53	LT	30	---	
241+35	RT	28	---	
246+10	LT	51	---	
246+92	RT	26	---	
250+40	RT	32	---	
250+55	LT	36	---	
JUROWSKI DR. EAST		20	---	CURB REPLACEMENT
ELM ST. WEST		21	---	CURB REPLACEMENT
257+45	LT	26	---	
ELM ST. EAST		22	---	CURB REPLACEMENT
SHIELA BLVD. WEST		22	---	CURB REPLACEMENT
259+30	RT	29	---	
259+50	LT	20	---	
SHIELA BLVD. EAST		30	---	CURB REPLACEMENT
HARTWILL LN. WEST		18	---	CURB REPLACEMENT
264+10	LT	19	---	
HARTWILL LN. EAST		20	---	CURB REPLACEMENT
WEST ST. NW		27	---	CURB REPLACEMENT
WEST ST. SW		25	---	CURB REPLACEMENT
269+40	LT	33	---	
WEST ST. NE		24	---	CURB REPLACEMENT
WEST ST. SE		30	---	CURB REPLACEMENT
269+40	RT	26	---	
PARK ST. WEST		36	---	CURB REPLACEMENT
278+15	RT	49	---	
STA. 278+32	LT	20	---	CURB REPLACEMENT
PARK ST. EAST		38	---	CURB REPLACEMENT
281+20	MAINLINE	40	---	
TOTAL		2,115	119	

GRADING, SHAPING, FINISHING DRIVEWAY REMOVAL

STATION	LOCATION	SPV.0060.02		CUT	FILL	TOPSOIL	FERTILIZER		SEEDING	TEMPORARY
		EACH					TYPE B			
				CY	CY	SY	CWT		MIX 20	SEED
									LB	LB
21+92	LT	1	6.5	---	---	63	0.04		1.70	1.70
25+50	RT	1	13	---	---	183	0.12		4.94	4.94
38+05	RT	1	13	---	---	108	0.07		2.92	2.92
39+74	LT	1	3.5	---	---	22	0.01		0.59	0.59
42+05	LT	1	4	---	---	18	0.01		0.49	0.49
51+85	RT	1	9.5	---	---	42	0.03		1.13	1.13
63+45	LT	1	13	---	---	60	0.04		1.62	1.62
184+15	RT	1	20	---	---	42	0.03		1.13	1.13
184+68	RT	1	12	---	---	25	0.02		0.68	0.68
208+09	LT	1	5	---	---	56	0.04		1.51	1.51
221+29	RT	1	14	---	---	56	0.04		1.51	1.51
224+65	LT	1	2.9	---	---	36	0.02		0.97	0.97
233+75	LT	1	---	---	---	---	---		---	---
TOTAL		13	116	0	711	0.45			19	19

*NOTE: QUANTITY FOR INFORMATION ONLY

GRADING, SHAPING, FINISHING CULVERT REPAIR

STATION	LOCATION	SPV.0060.03		CUT	FILL	TOPSOIL	FERTILIZER		SEEDING	SEEDING	REMARKS
		EACH					TYPE B				
				CY	CY	SY	CWT		MIX No. 20	TEMPORARY	
									LB	LB	
47+06	LT & RT	1	33.30	33.30	---	20.00	0.01		0.54	0.54	TWIN PIPES
59+07	LT & RT	1	2.80	2.80	---	8.30	0.01		0.22	0.22	TWIN PIPES
70+70	LT & RT	1	77.80	63.00	---	46.00	2.90		1.24	1.24	
179+04	RT	1	14.81	14.81	---	8.89	0.01		0.24	0.24	
219+50	LT & RT	1	35.56	35.56	---	21.33	0.01		0.58	0.58	TWIN PIPES
TOTAL		5	164	149	105	2.94			3	3	

*NOTE: QUANTITY FOR INFORMATION ONLY

NOTE: ALL QTY'S ARE CAT 0010 UNLESS OTHERWISE NOTED

SPECIAL LANE REPAIR

STA - STA		LOCATION	SPV.0090.01 LF
UNDISTRIBUTED		LT & RT	5,300
TOTAL			5,300

GRADING, SHAPING, FINISHING DITCHING

STA - STA	LOCATION	SPV.0090.02 LF	* CUT		* FILL		* TOPSOIL		FERTILIZER	SEEDING	SEEDING
			CY	CY	CY	CY	SY	SY	TYPE B CWT	MIX No. 20 LB	TEMPORARY LB
70+20 - 71+20	LT	100	14.81	---	---	---	45.78	---	0.03	1.25	1.25
194+45 - 195+45	RT	100	14.81	---	---	---	45.78	---	0.03	1.25	1.25
TOTAL		200	30	0	0	0	92	0	0.06	3	3

*NOTE: QUANTITY FOR INFORMATION ONLY

MATERIAL TRANSFER VEHICLE

STATION		LOCATION	SPV.0105.01 LS
3+99 - 281+20		MAINLINE	1
TOTAL			1

MILLING AND REMOVING TEMPORARY
JOINT

STATION		LOCATION	SPV.0105.02 LS
3+99 - 281+20		MAINLINE	1
TOTAL			1

PREPARATION OF FOUNDATION FOR
ASPHALTIC PAVING SPECIAL

STATION		LOCATION	SPV.0105.03 LS
3+99 - 281+20		MAINLINE	1
TOTAL			1

GRADING, SHAPING, FINISHING FOR SIDEWALK

STATION	SPV.0105.04 LS	* CUT		* FILL		* TOPSOIL		FERTILIZER	SEEDING	TEMPORARY
		CY	CY	CY	CY	SY	SY	TYPE B CWT	MIX 20 LB	SEED LB
JUROWSKI DR	---	1.11	---	---	---	5.56	---	0.00	0.15	0.15
ELM ST	---	3.70	---	---	---	15.11	---	0.01	0.41	0.41
SHEILA BLVD	---	3.85	---	---	---	28.56	---	0.02	0.77	0.77
HARTWILL LN	---	5.88	---	---	---	12.00	---	0.01	0.32	0.32
WEST ST	---	17.63	---	---	---	34.44	---	0.02	0.93	0.93
PARK ST	---	15.98	---	---	---	37.89	---	0.02	1.02	1.02
PROJECT	1	---	---	---	---	---	---	---	---	---
1		48	0	0	0	134	0	0.08	4	4

*NOTE: QUANTITY FOR INFORMATION ONLY

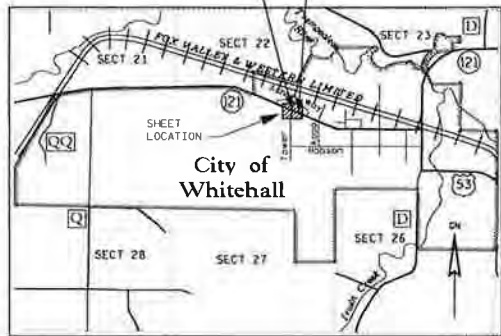
REHEATING HMA PAVEMENT LONGITUDINAL JOINTS

STATION - STATION		LOCATION	STA	REMARKS
3+99 - 142+70		MAINLINE	139	UPPER LAYER
143+95 - 281+20		MAINLINE	138	UPPER LAYER
TOTAL			277	

NOTE: ALL QTY'S ARE CAT 0010 UNLESS OTHERWISE NOTED

BEGIN RELOCATION ORDER - STA. 240+35.00
770.97' SOUTH OF AND 1,251.33' WEST OF THE
EAST 1/4 CORNER OF SECT. 22, T22N, R8W.

END RELOCATION ORDER - STA. 242+25.00
843.22' SOUTH OF AND 1,075.60' WEST OF THE
EAST 1/4 CORNER OF SECT. 22, T22N, R8W.



LOCATION SKETCH
NOT TO SCALE

TOWER DRIVE ALIGNMENT

STA = 8+62.19	PI STA = 9+06.95	PI STA = 9+51.57	STA = 10+00.00
Y = 440105.19	Y = 440148.13	Y = 440188.94	Y = 440233.73
X = 852074.65	X = 852087.27	X = 852105.67	X = 852124.09
	D = 07°53'58"	I = 01°55'49"	
	CD = N 20°19'42" E		
	T = 44.76		
	R = 648.29		
	L = 89.39		
	C = 89.31		

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATE, TREMPLEAU COUNTY, NAD83 (2007) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER SURVEYS OF PUBLIC RECORD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES, EXCLUDING RIGHT OF WAY LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR STH 121 ESTABLISHED FROM PREVIOUS PLAT OF RIGHT OF WAY PROJECT 50180 (3) DATED JAN. 31, 1951 AND CERTIFIED SURVEY MAPS OF RECORD AND EXISTING IRONS LOCATED IN THE FIELD. EXISTING HIGHWAY RIGHT-OF-WAY FOR TOWER DRIVE ESTABLISHED FROM CERTIFIED SURVEY MAPS OF RECORD AND EXISTING IRONS LOCATED IN THE FIELD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

PARCEL 1 ACCESS TO STATE HIGHWAY 121 IS RESTRICTED BY ACCESS COVENANT DOCUMENT 287542, VOLUME 398, PAGE 120, RECORDED MAY 19, 1994.

PARCEL 2 ACCESS TO STATE HIGHWAY 121 IS RESTRICTED IN CSM RECORDED AS DOCUMENT 342188, VOLUME 5, PAGE 71, AUGUST 16, 2002.

CONVENTIONAL ABBREVIATIONS		CONVENTIONAL SYMBOLS	
ACCESS POINT/ DRIVEWAY CONNECTION	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET. AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	P.		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(000)		
REFERENCE LINE	R/L		

CURVE DATA		FOUND IRON PIPE/ PIN	
LONG CHORD	LCH	R/W MONUMENT	R/W
LONG CHORD BEARING	LCB	R/W STANDARD	R/W
RADIUS	R	SIGN	SIGN
DEGREE OF CURVE	D	SECTION CORNER MONUMENT	STA.
CENTRAL ANGLE OR DELTA	DELTA	SECTION CORNER SYMBOL	V.
LENGTH OF CURVE	L		
TANGENT	TAN		

FEE (HATCH VARIES)		CONVENTIONAL UTILITY SYMBOLS	
TEMPORARY LIMITED EASEMENT	TEMPORARY LIMITED EASEMENT	WATER	W
PERMANENT LIMITED EASEMENT	PERMANENT LIMITED EASEMENT	GAS	G
PARCEL NUMBER	PARCEL NUMBER	TELEPHONE	T
SIGN NUMBER (OFF PREMISE)	SIGN NUMBER (OFF PREMISE)	OVERHEAD TRANSMISSION LINES	OH
BUILDING	BUILDING	ELECTRIC	E
		CABLE TELEVISION	TV
		FIBER OPTIC	FO
		SANITARY SEWER	SAN
		STORM SEWER	SS
		NON COMPENSABLE	NON
		COMPENSABLE	COMPENSABLE
		POWER POLE	PP
		TELEPHONE POLE	TP
		TELEPHONE PEDESTAL	TPD
		ELECTRIC TOWER	ET

SCHEDULE OF LANDS AND INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LANDS TO THE DEPARTMENT.

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED	R/W REQUIRED (SF)		
			NEW	EXISTING	TOTAL(SF)
1	BADGER HOUSING ASSOCIATES III	FEE	1,461 SF		1,461 SF
2	ALAN R. POGREBA	FEE	1,552 SF		1,552 SF

UTILITY INTERESTS REQUIRED

PARCEL NUMBER	OWNER(S)	INTEREST REQUIRED
100	CITY OF WHITEHALL (SANITARY, STORM & WATER)	RELEASE OF RIGHTS
101	CENTURYLINK	RELEASE OF RIGHTS
102	MIDWEST NATURAL GAS, INC.	RELEASE OF RIGHTS
103	TRI COUNTY COMMUNICATION COOP, INC.	RELEASE OF RIGHTS

TRANSPORTATION PROJECT PLAT NO: 7505-00-21 - 4.01

THAT PART OF LOT #1, CSM VOL 2, PG. 58, DOC #287532 AND LOT #1, CSM VOL 5, PG. 71, DOC #342188 IN THE NE 1/4 - SE 1/4, SECT. 22, T-22-N, R-8-W, ALL IN THE CITY OF WHITEHALL, TREMPLEAU COUNTY, WISCONSIN.

RELOCATION ORDER STH 121, STH 93-USH 53, TREMPLEAU COUNTY

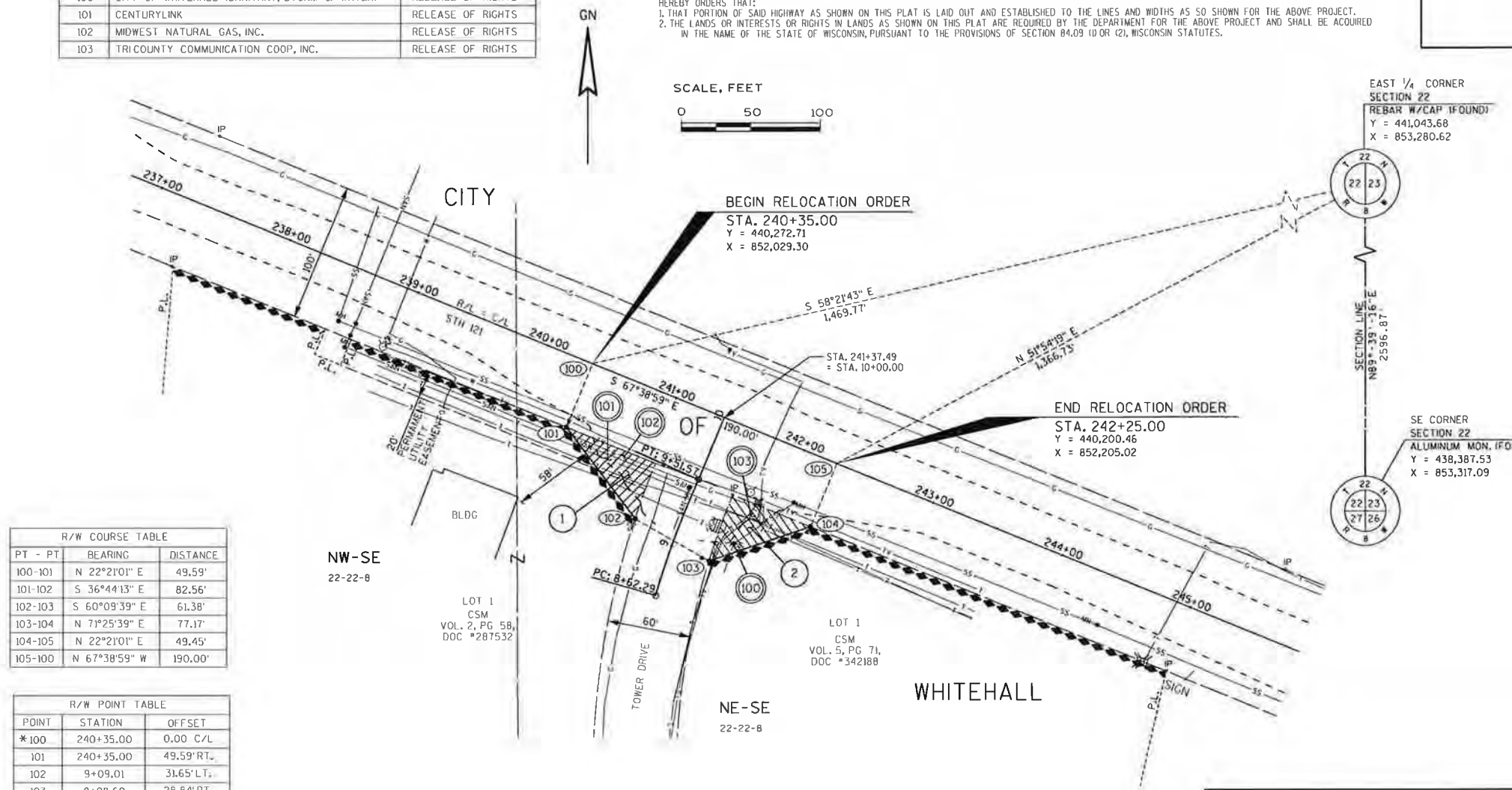
TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09 AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAY 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.

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 7505-00-21 - 4.01

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN _____ COUNTY, WISCONSIN AT _____ M ON _____ AS DOCUMENT # _____ AND FILED IN _____

SIGNATURE OF REGISTER OF DEEDS



R/W COURSE TABLE		
PT - PT	BEARING	DISTANCE
100-101	N 22°21'01" E	49.59'
101-102	S 36°44'13" E	82.56'
102-103	S 60°09'39" E	61.38'
103-104	N 77°25'39" E	77.17'
104-105	N 22°21'01" E	49.45'
105-100	N 67°38'59" W	190.00'

R/W POINT TABLE		
POINT	STATION	OFFSET
*100	240+35.00	0.00 C/L
101	240+35.00	49.59' RT.
102	9+09.01	31.65' LT.
103	8+98.60	28.84' RT.
104	242+25.00	49.45' RT.
*105	242+25.00	0.00 C/L

* - NON-MONUMENTED POINT

UTILITY EASEMENT INFORMATION

PARCEL NUMBER	UTILITY NAME	RECORDING DATA
1	CITY OF WHITEHALL (SANITARY, STORM & WATER)	DOC 309416, V.460, P.33
1, 2	CENTURYLINK	DOC 192838, V.172, P.465
1, 2	CENTURYLINK	DOC 201710, V.197, P.32

MSA

PROFESSIONAL SERVICES
TRANSPORTATION - HIGHWAYS
DEVELOPMENT - ENVIRONMENTAL

I, GREGORY P. RHINEHART, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095 OF THE WISCONSIN STATE STATUTES AND UNDER THE DIRECTION OF THE WISCONSIN DEPT. OF TRANSPORTATION, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 5880-02-22 - 4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.



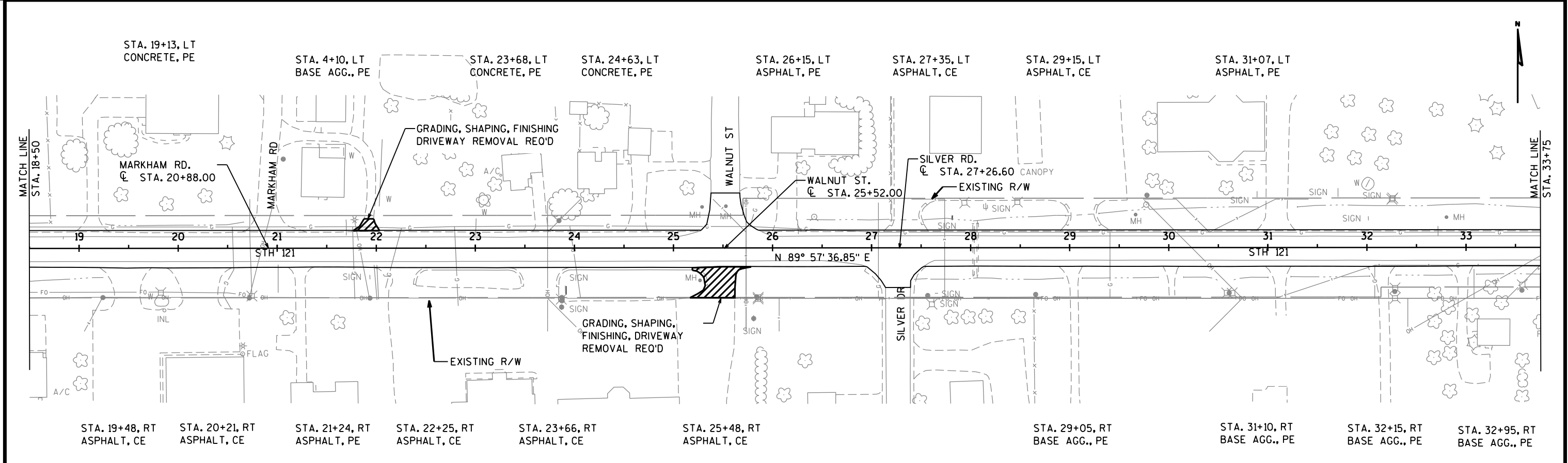
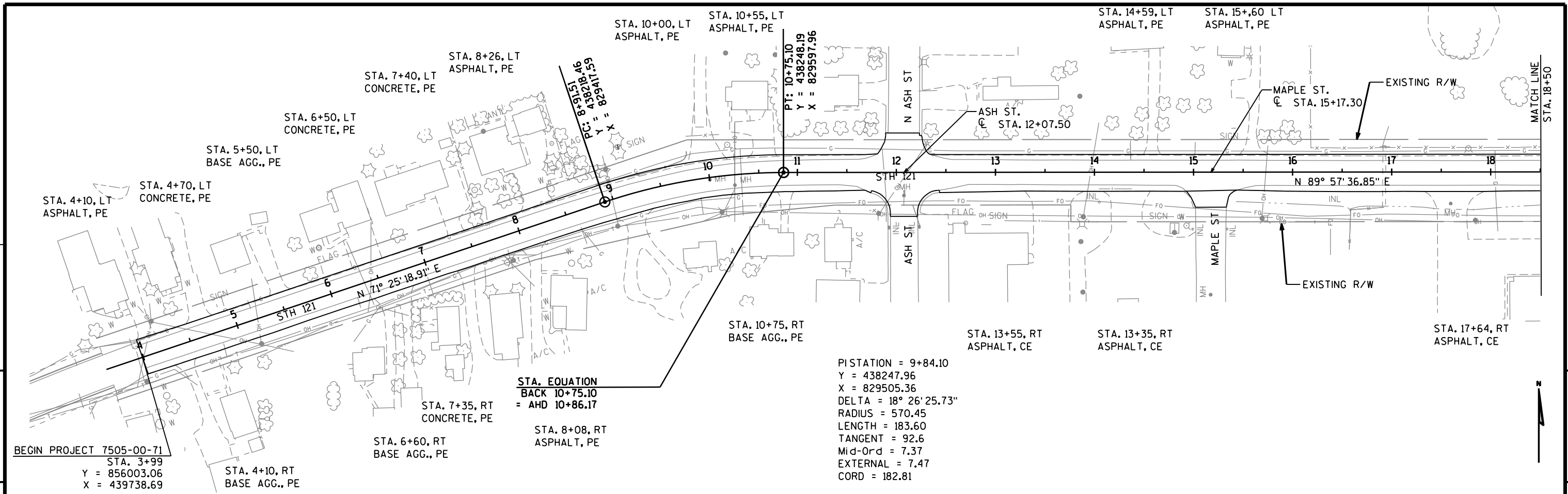
(SIGNATURE) _____
(PRINTED NAME) GREGORY P. RHINEHART
(DATE) 12-02-2013
(REGISTRATION NO.) S-1478

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

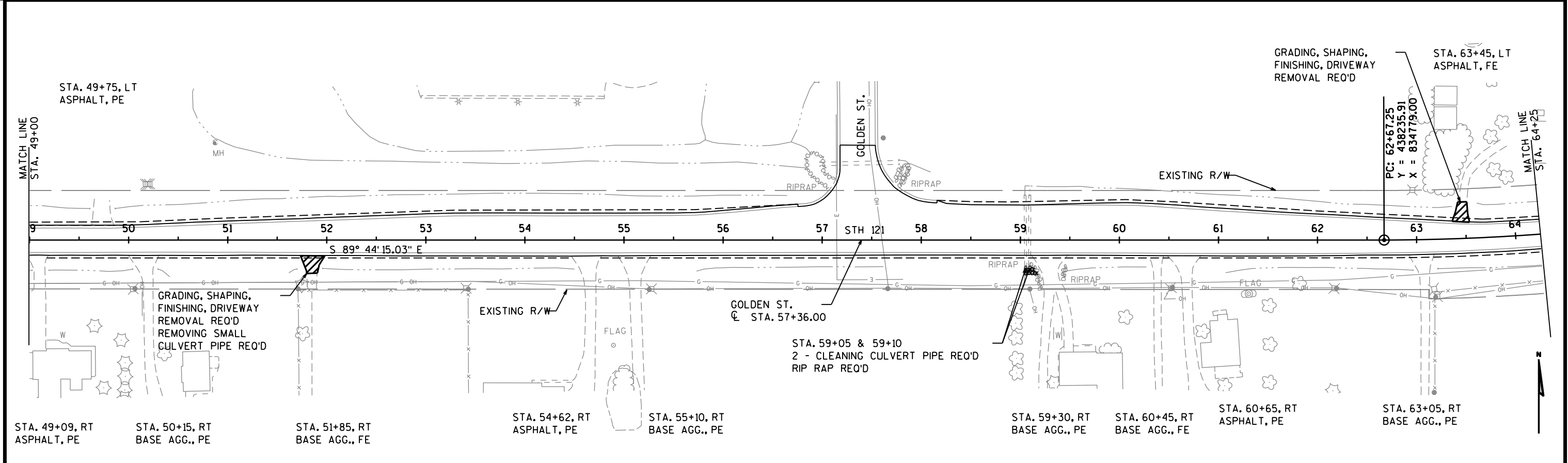
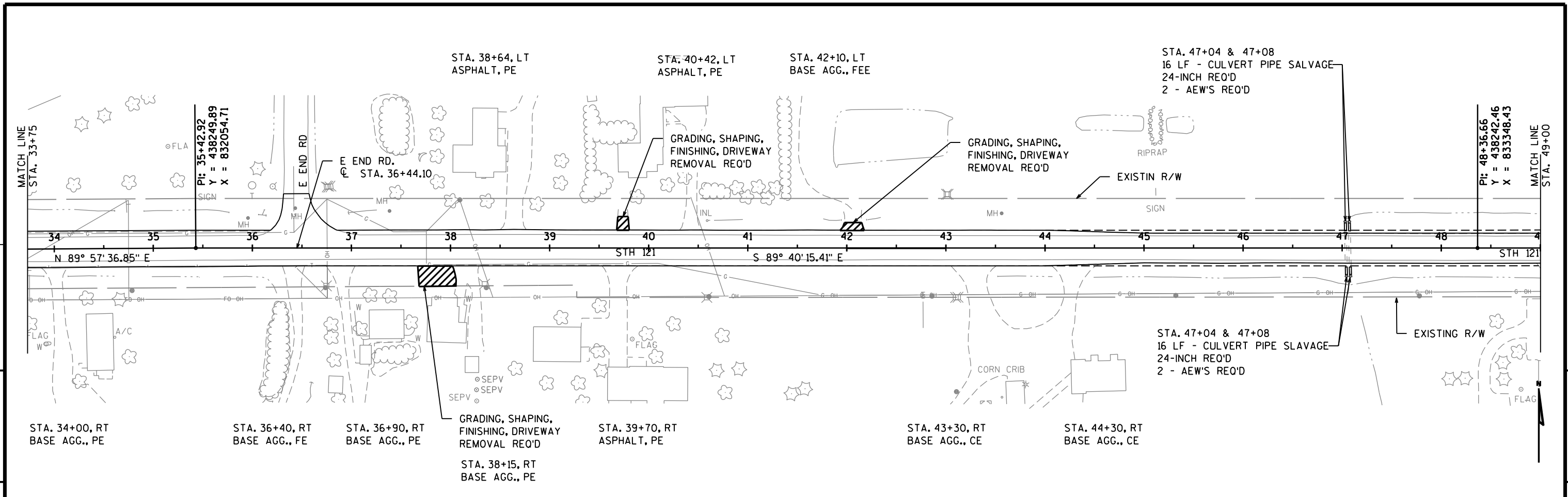
MICHAEL PILLER
PRINTED NAME

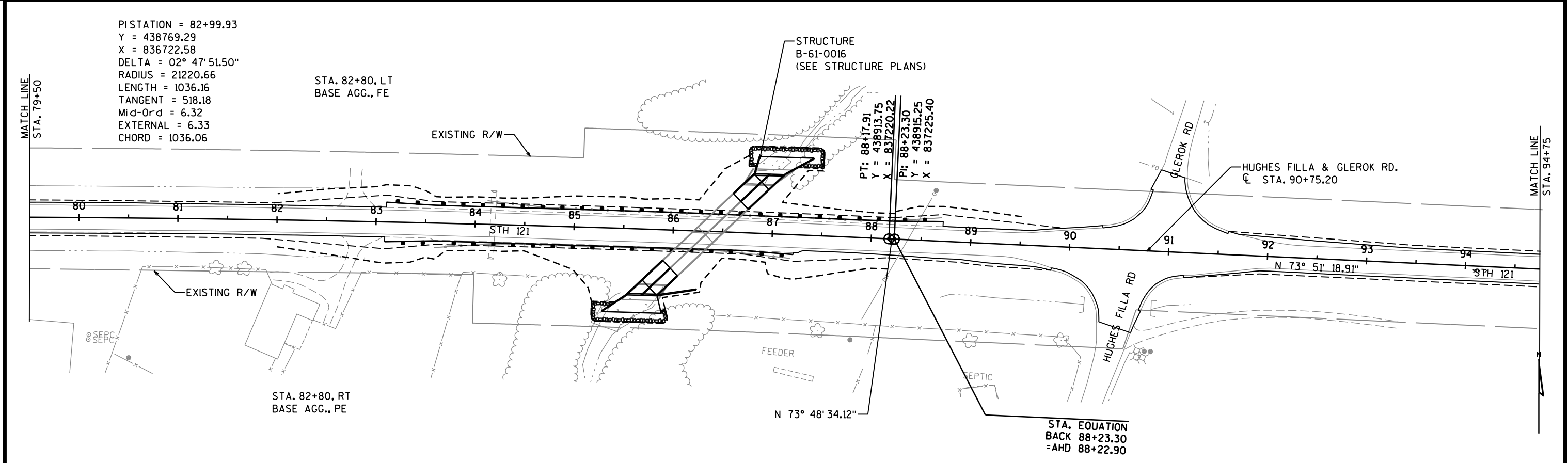
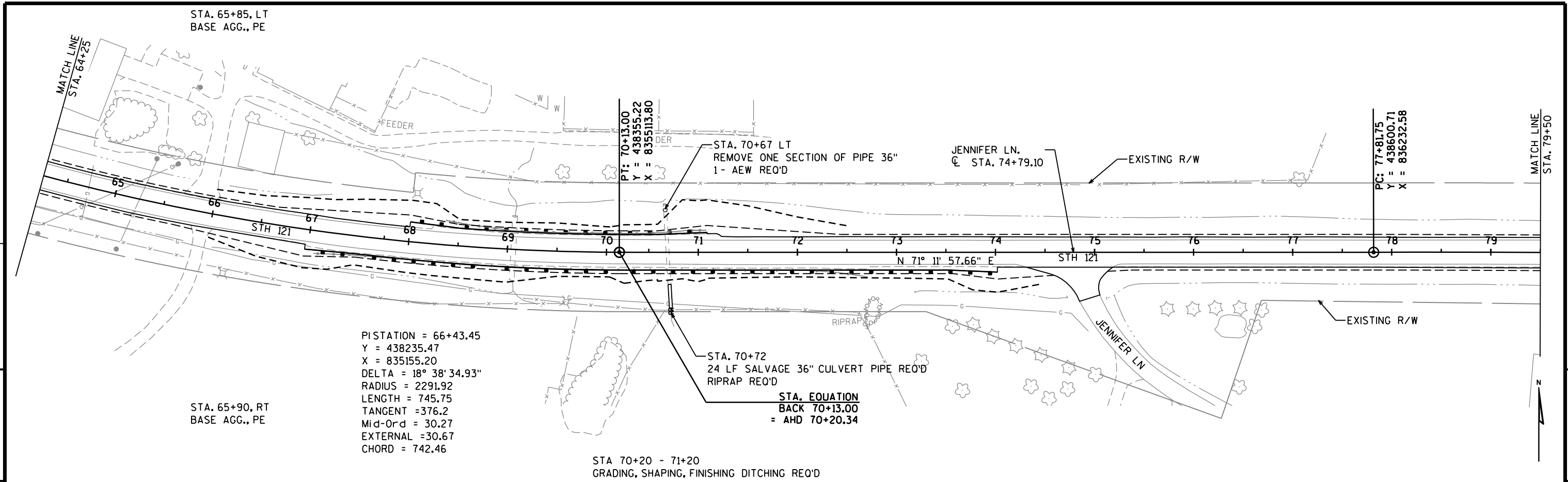
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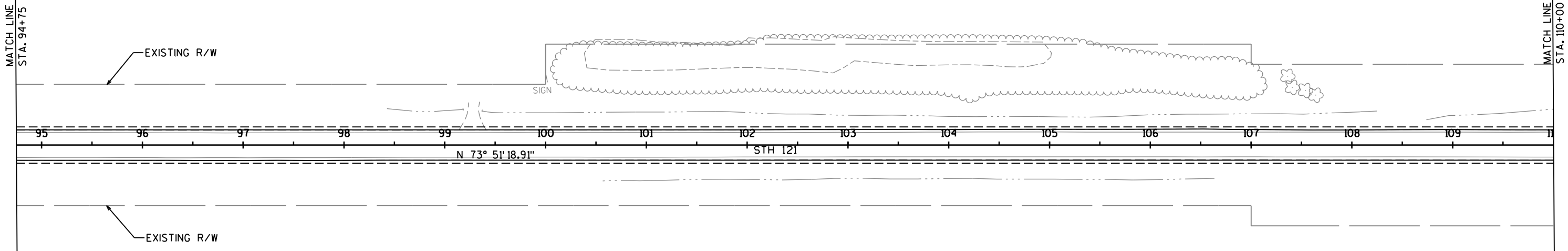


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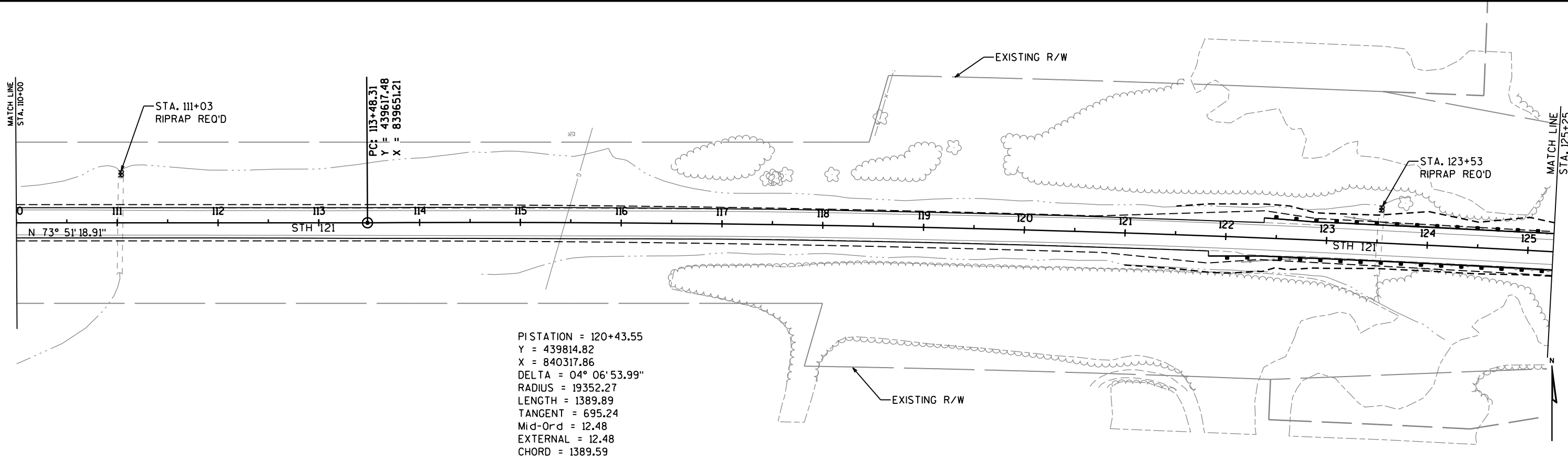




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PROJECT NO: 7505-00-71

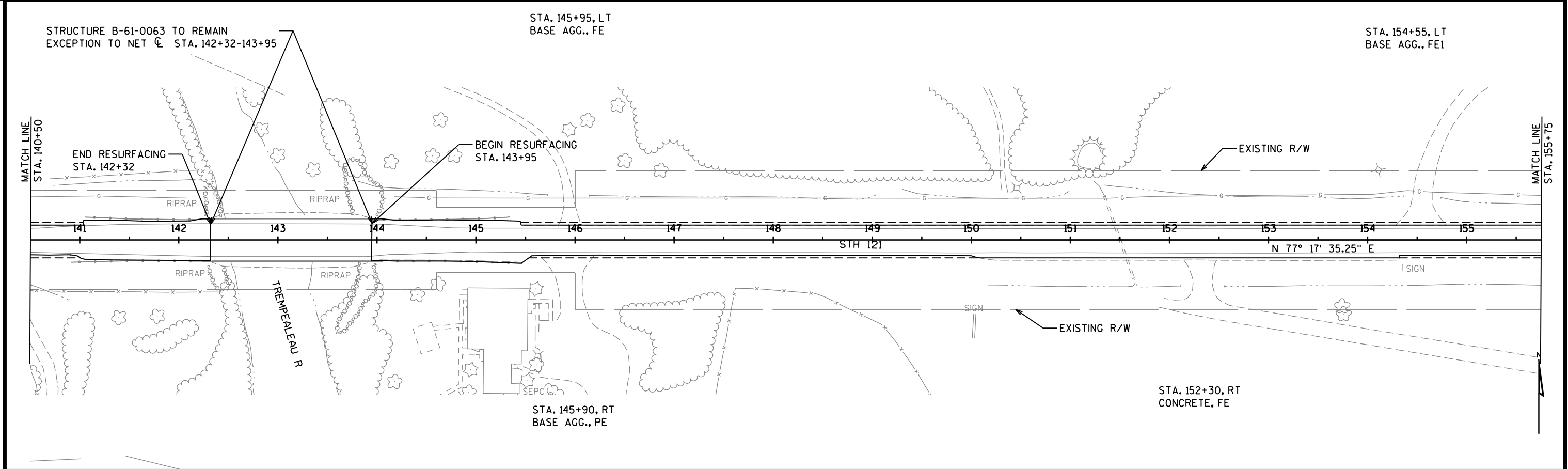
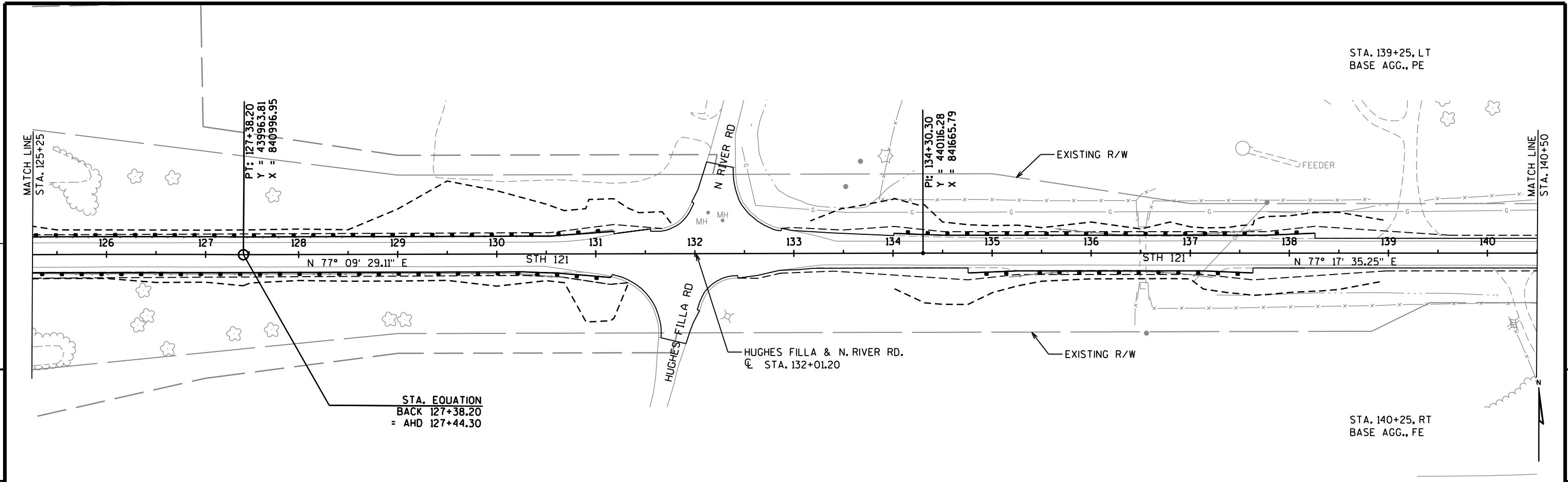
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COUNTY: TREMPLEAU

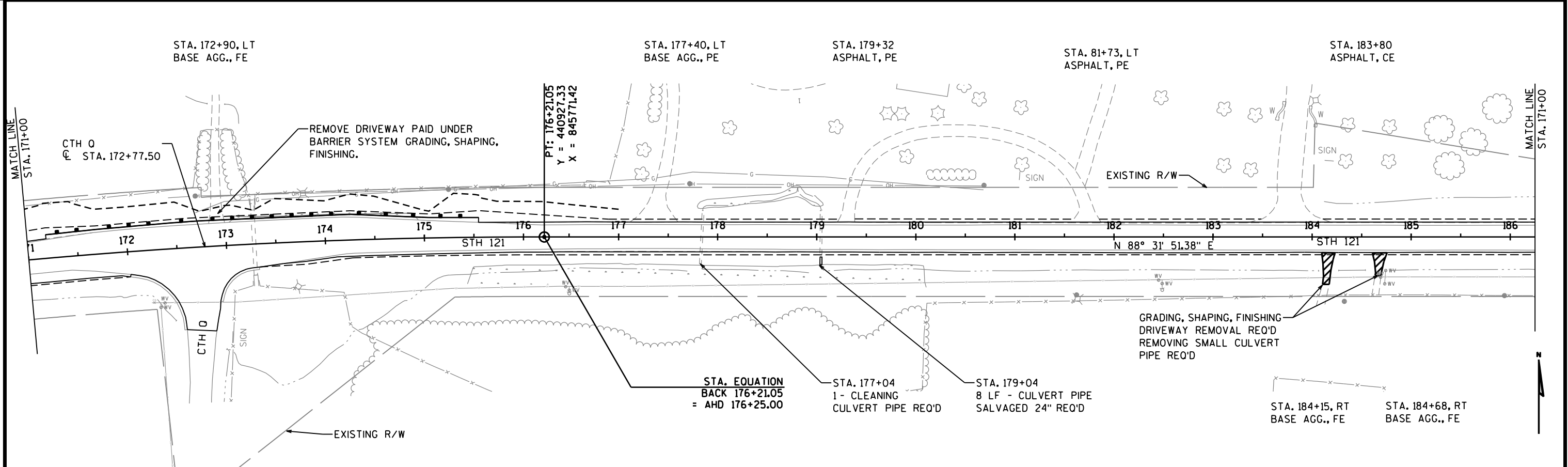
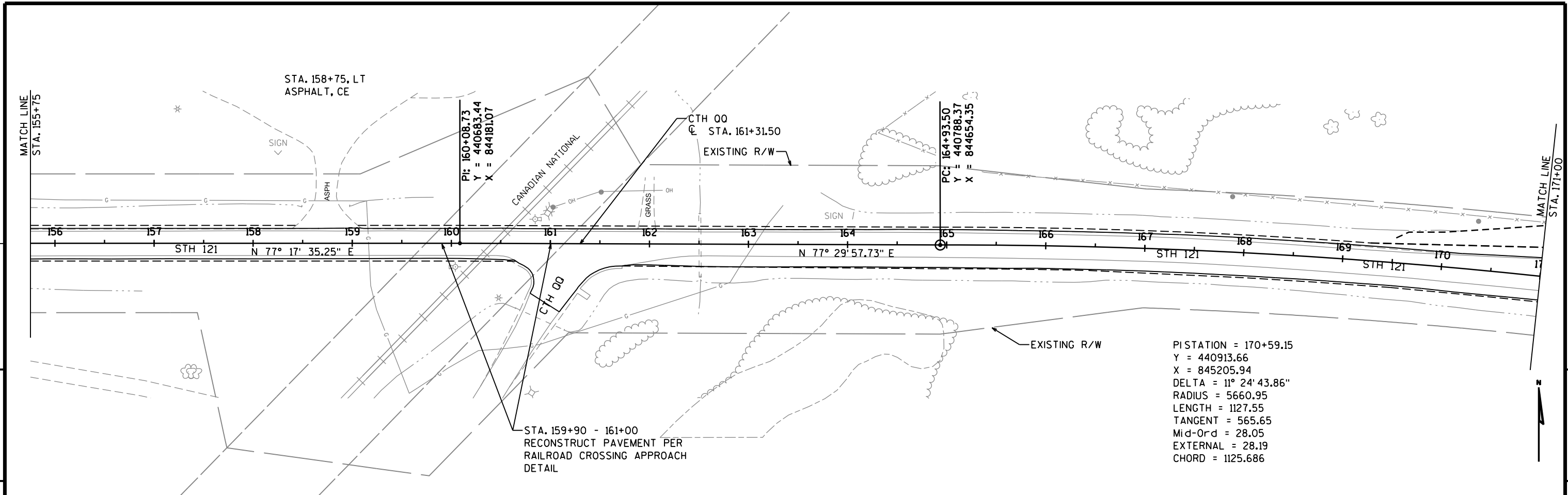
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SHEET

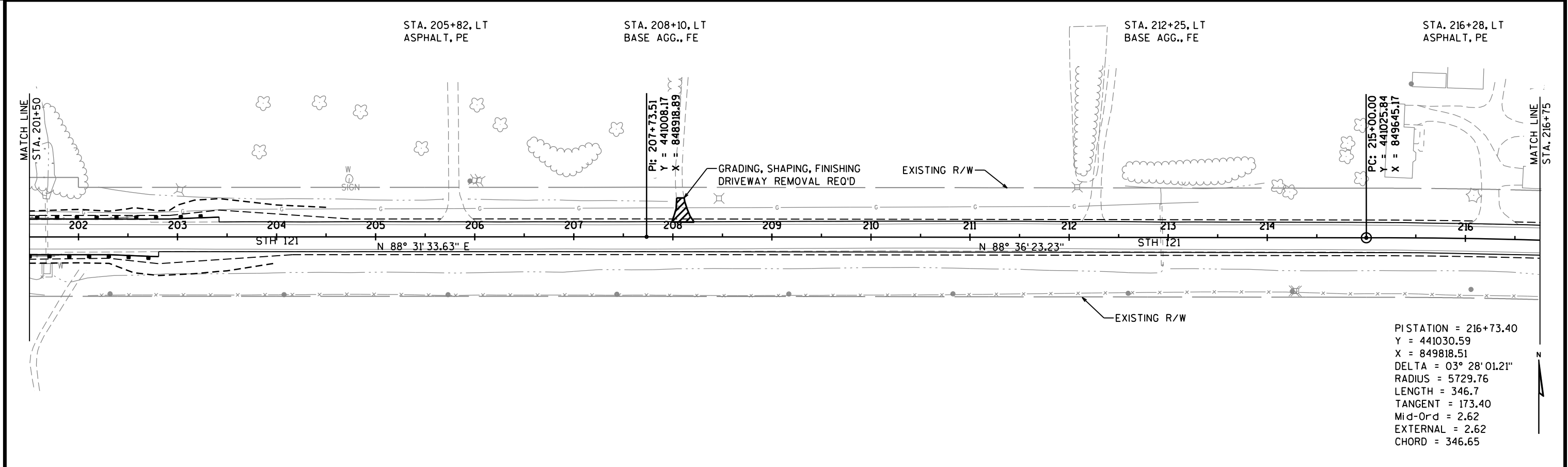
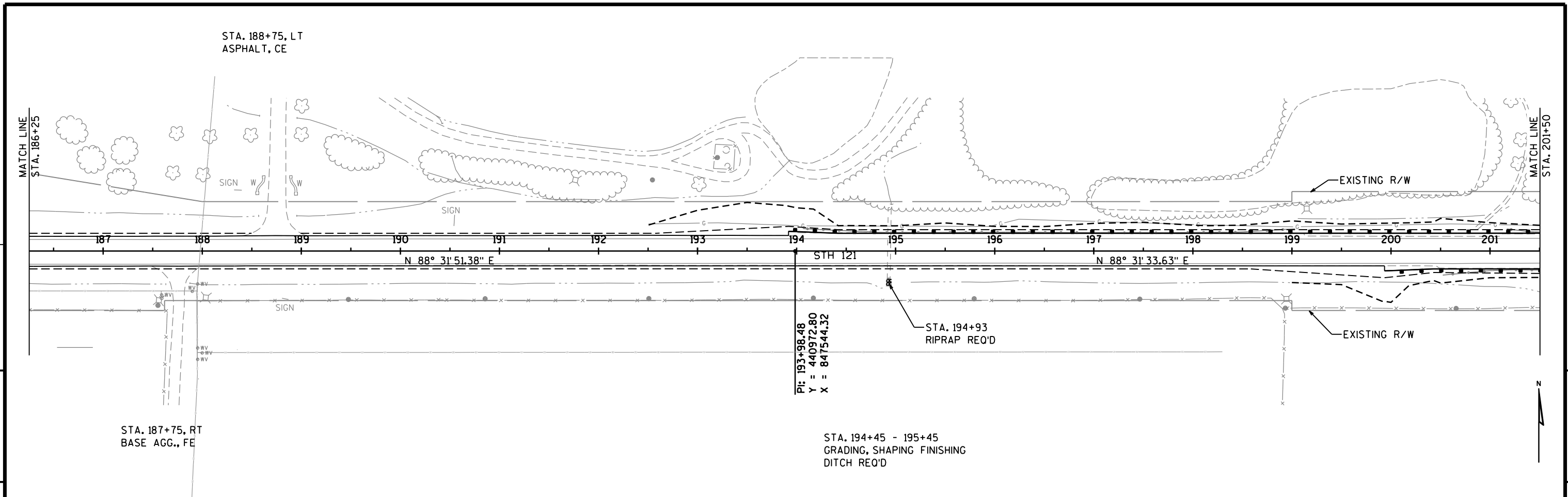
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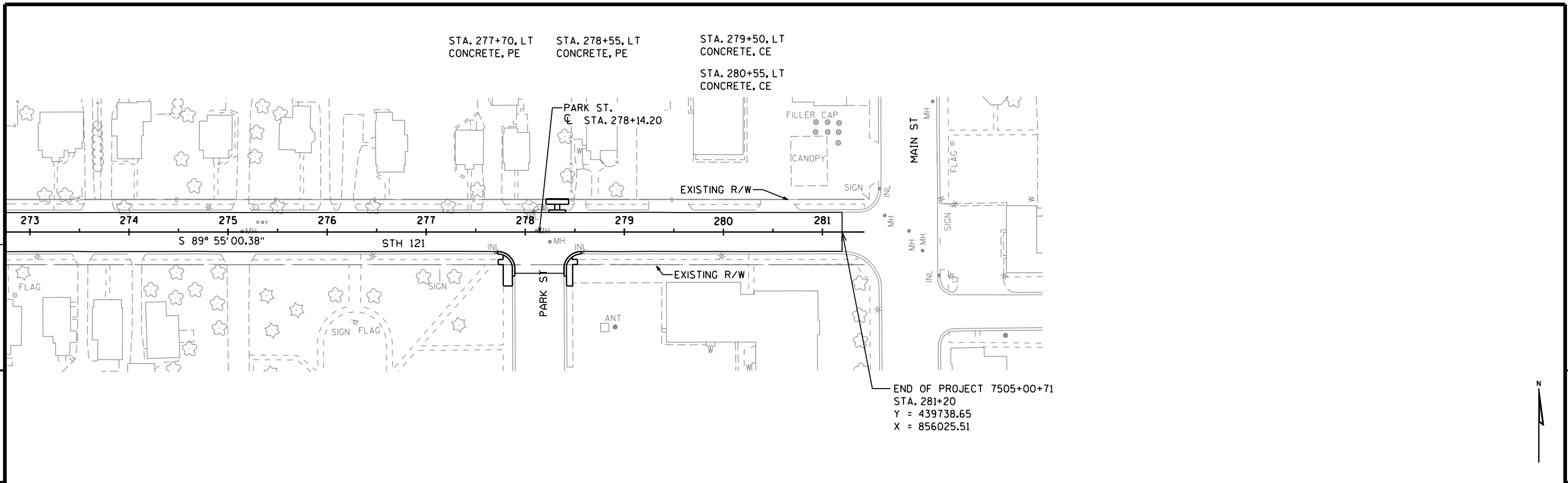
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PROJECT NO: 7505-00-71	HWY: STH 121	COUNTY: TREMPEALEAU	PLAN VIEW	SHEET	E
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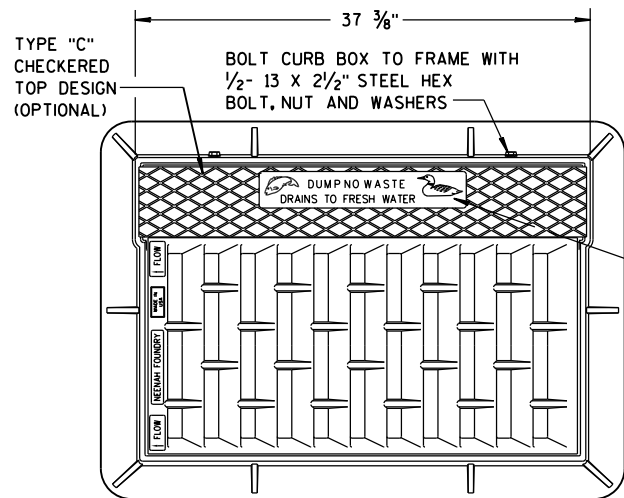
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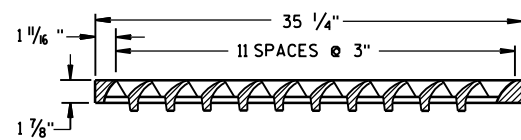
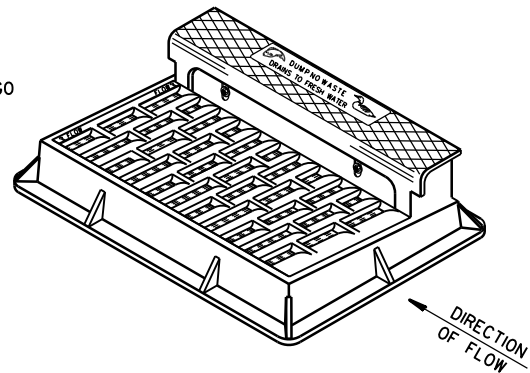
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Standard Detail Drawing List

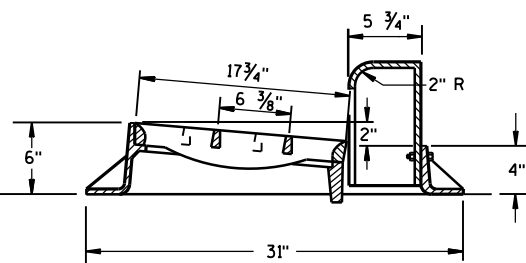
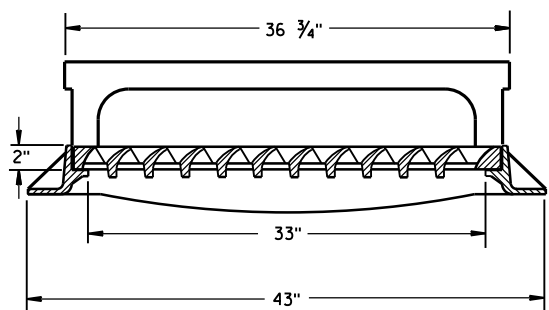
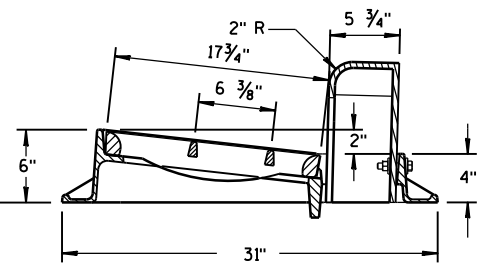
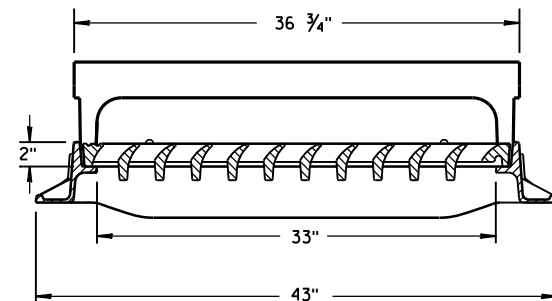
08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D05-15A	CURB RAMPS TYPES 1 AND 1-A
08D05-15B	CURB RAMPS TYPES 2 AND 3
08D05-15C	CURB RAMPS TYPES 4A AND 4A1
08D05-15D	CURB RAMPS TYPE 4B AND 4B1
08D05-15E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F10-01	CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
12A03-10	NAME PLATE (STRUCTURES)
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13B01-10	PAVEMENT DETAILS FOR RAILROAD APPROACH
14B29-01	SAFETY EDGE
14B42-02A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-01A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
15A01-11	MARKER POST FOR RIGHT-OF-WAY
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C04-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C09-09A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D28-02	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY



**NOTE:
GRATE IS REVERSIBLE.**

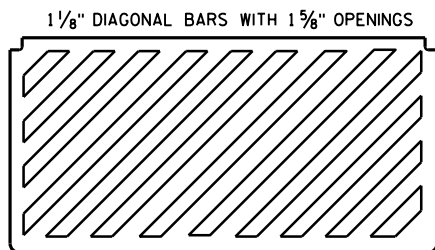


NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

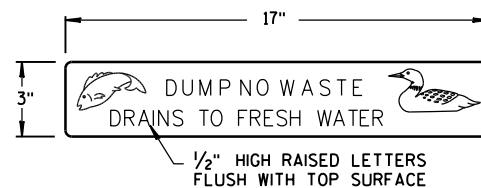


TYPE "H"

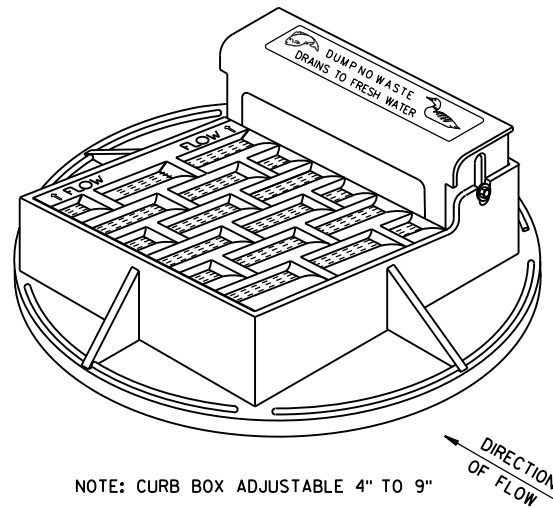
NOTE: EITHER CASTING IS ACCEPTABLE



**SPECIAL GRATE FOR
TYPE "H" COVER**
(MEASURES 35 1/4" X 17 3/4" X 2")
(NOTED AS TYPE H-S ON DRAINAGE TABLE)

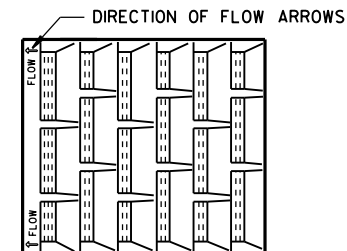


LOGO DETAIL

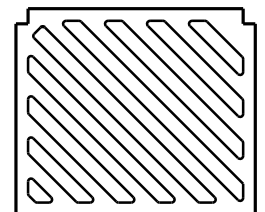


NOTE: CURB BOX ADJUSTABLE 4" TO 9"

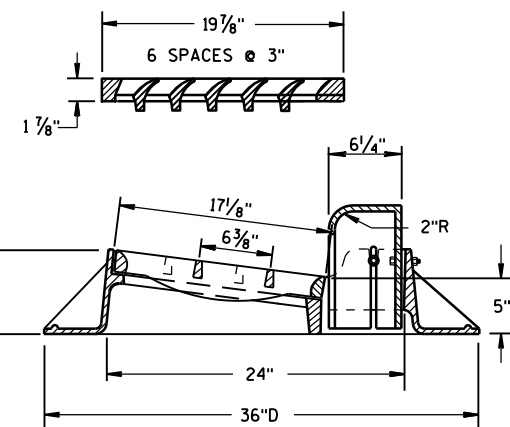
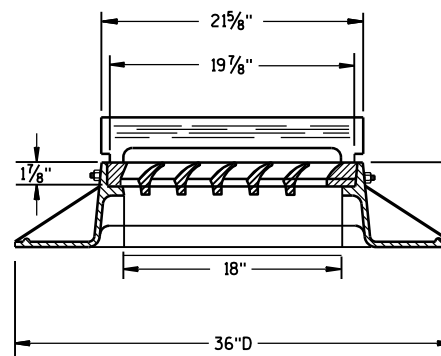
**NOTE:
GRATE IS REVERSIBLE.**



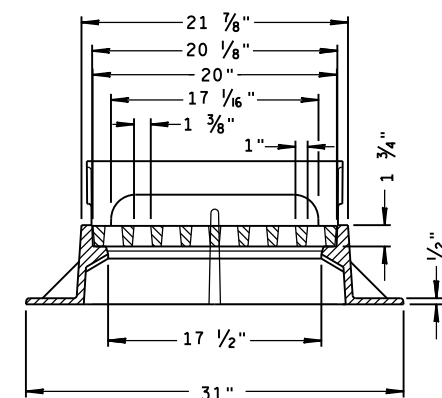
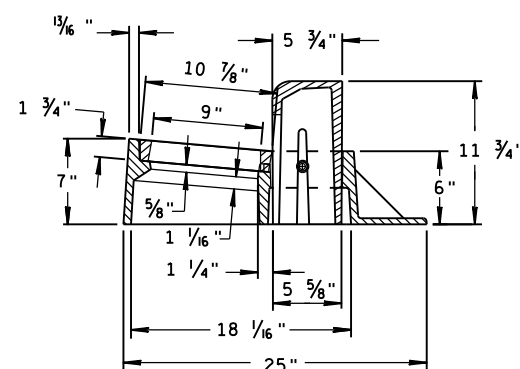
1" DIAGONAL BARS
WITH 1 1/2" OPENINGS



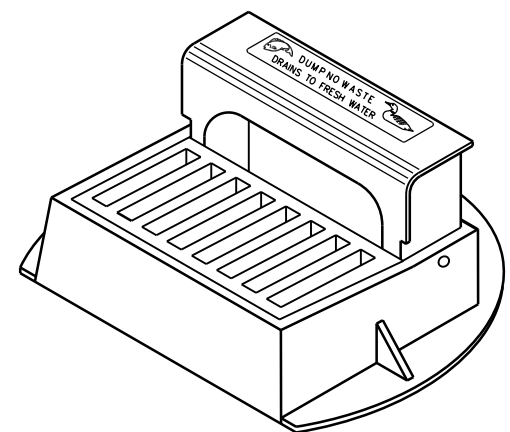
**SPECIAL GRATE FOR
TYPE "A" COVER**
(MEASURES 19 3/4" X 17" X 1 1/8")
(NOTED AS TYPE A-S ON DRAINAGE TABLE)



TYPE "A"



TYPE "Z"

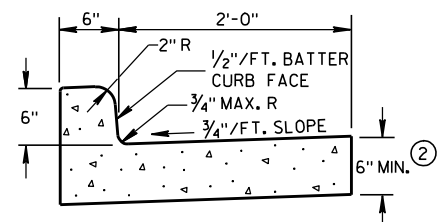


**INLET COVERS
TYPE A, H, A-S, H-S & Z**

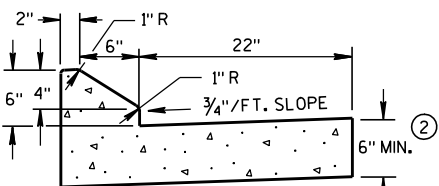
**STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION**

APPROVED
II-27-13
DATE
FHWA

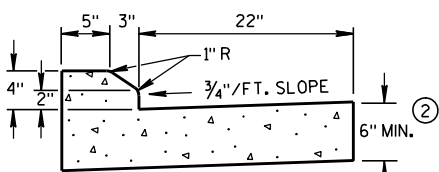
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER



TYPES A & D ①

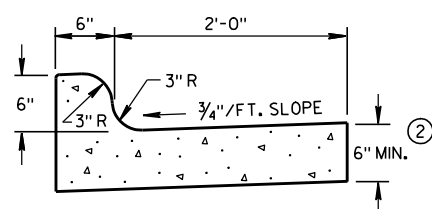


6" SLOPED CURB TYPES G & J ①

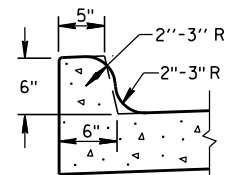
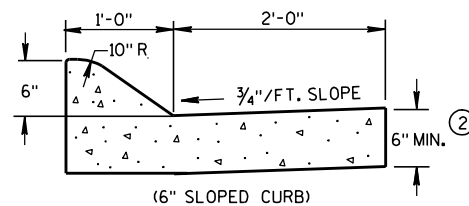


4" SLOPED CURB TYPES G & J ①

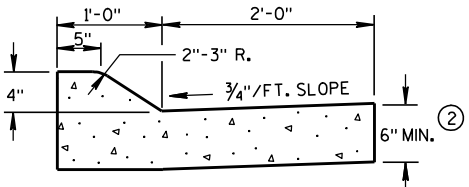
CONCRETE CURB & GUTTER 30"



TYPES K & L ①

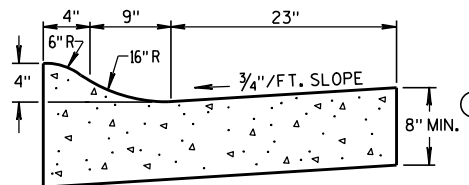
OPTIONAL CURB SHAPE
FOR TYPES K & L ①

(6" SLOPED CURB)

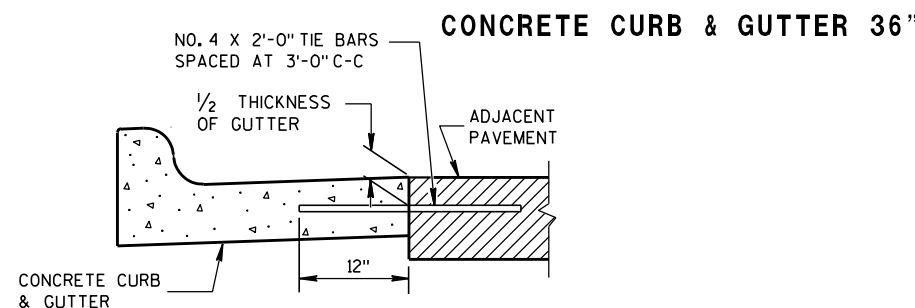


(4" SLOPED CURB)

TYPES A & D ①

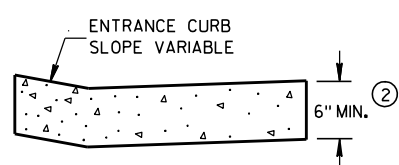


4" SLOPED CURB TYPES R & T ① ④



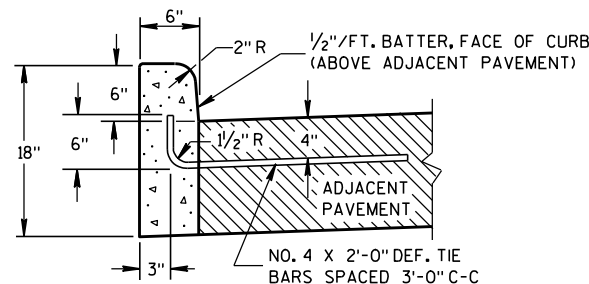
CONCRETE CURB & GUTTER 36"

TYPICAL TIE BAR LOCATION ①



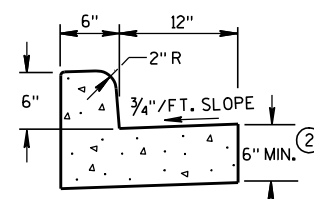
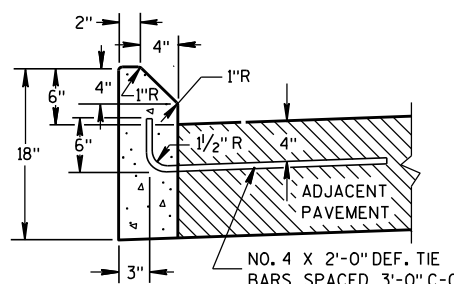
DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)



TYPES A & D ①

CONCRETE CURB

TYPES A & D
CONCRETE CURB & GUTTER 18"

TYPES G & J ①

GENERAL NOTES

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

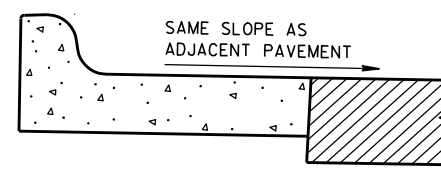
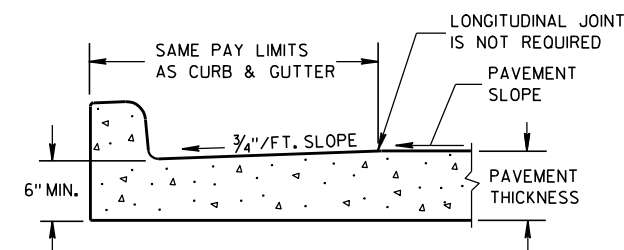
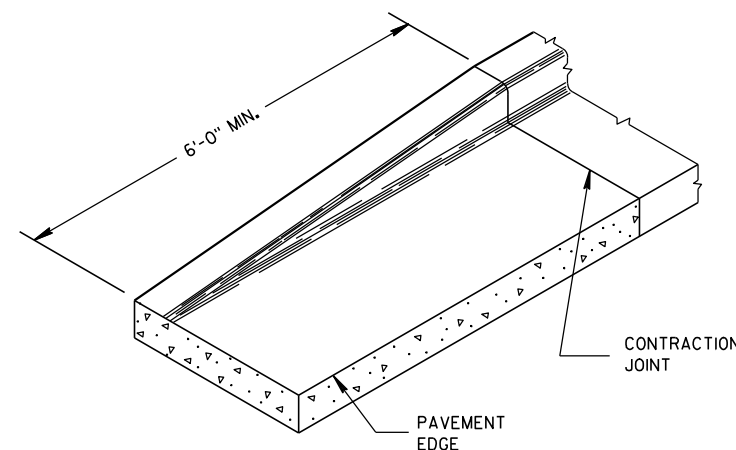
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

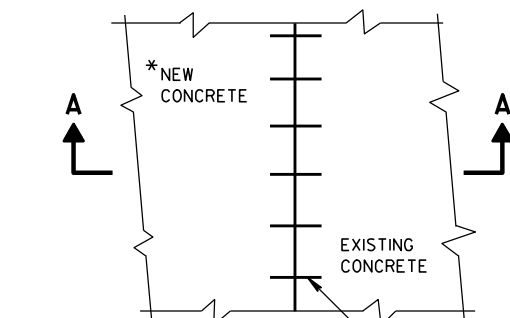
WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

- ① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K AND R.
- ② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- ④ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- ⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

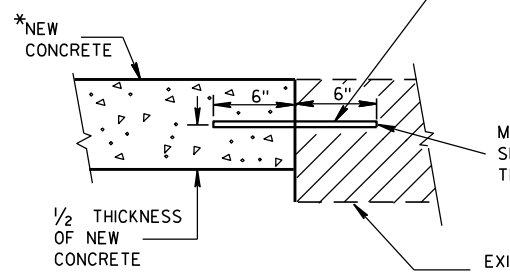
REVERSE SLOPE GUTTER ⑤
(TYPICAL FOR ALL CURB & GUTTER TYPES)PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER

END SECTION CURB & GUTTER



PLAN VIEW

* NEW CURB & GUTTER,
SURFACE DRAINS,
CONCRETE PAVEMENT
OR OTHER NEW CONCRETE.

SECTION A-A
TIE BARS DRILLED
INTO EXISTING PAVEMENT

NO. 6 TIE BARS SPACED 2'-6" C-C,
INSTALLED PERPENDICULAR
TO THE LONGITUDINAL JOINT.

MAXIMUM DRILL HOLE
SIZE IS 1/8" GREATER
THAN TIE BAR DIAMETER

EXISTING
CONCRETE

CONCRETE CURB, CONCRETE
CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

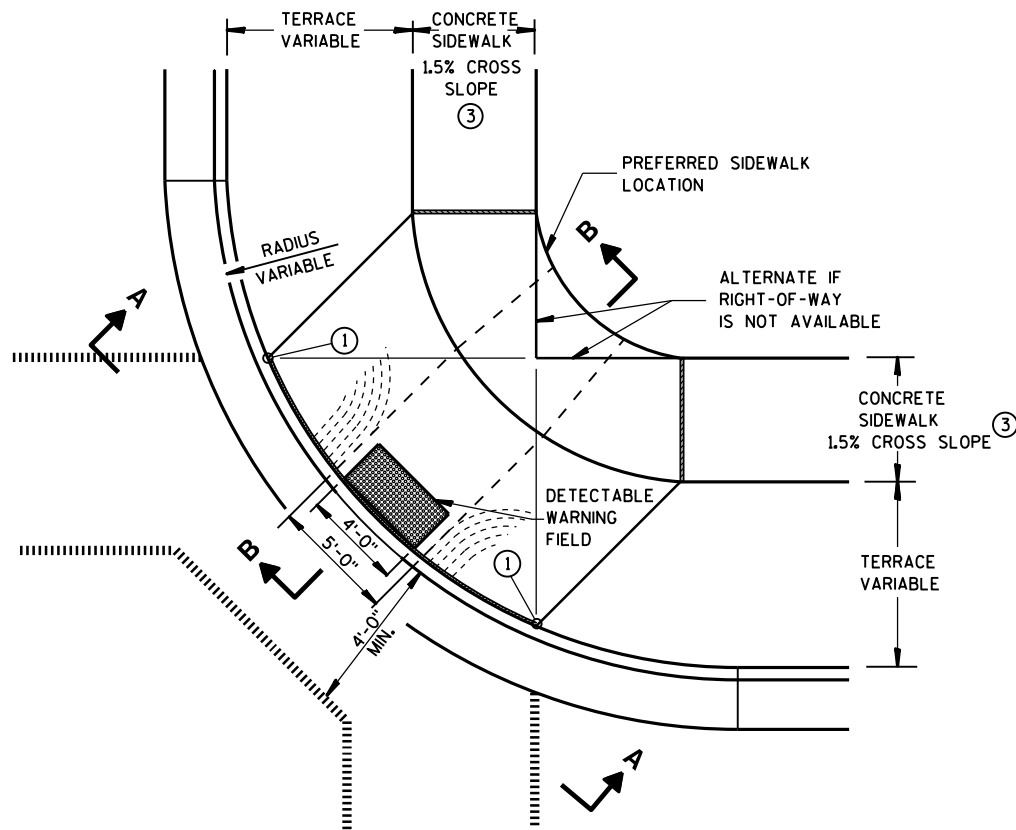
APPROVED

9/4/08

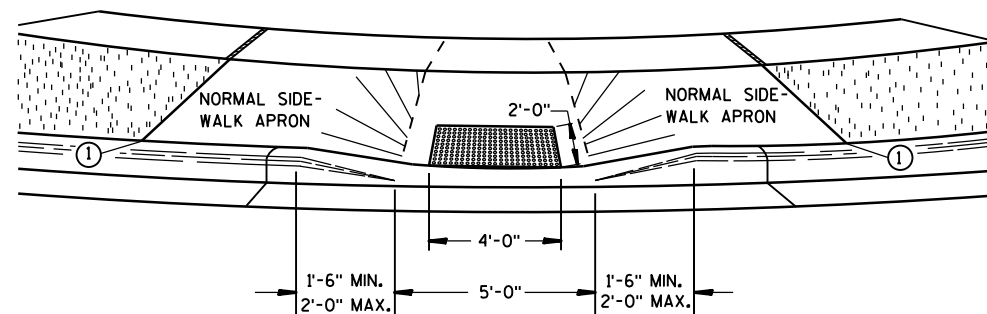
DATE

FHWA

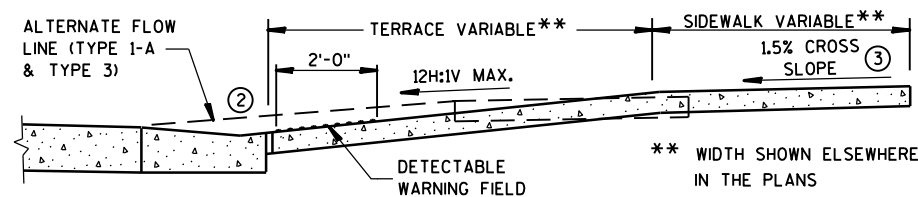
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER



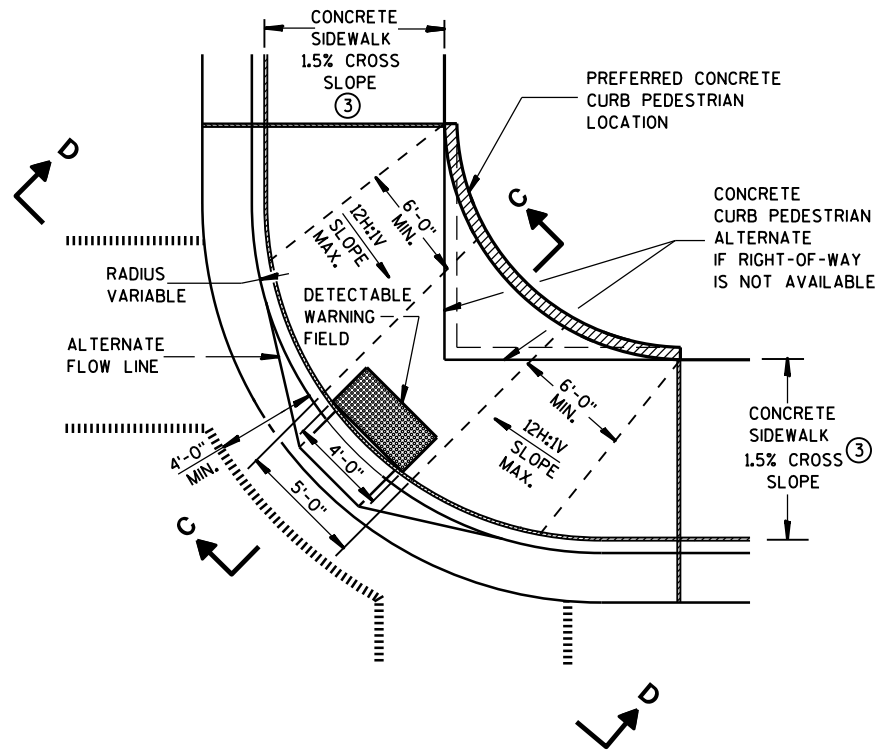
**PLAN VIEW
TYPE 1 RAMP**
(CENTER OF CORNER RADIUS)



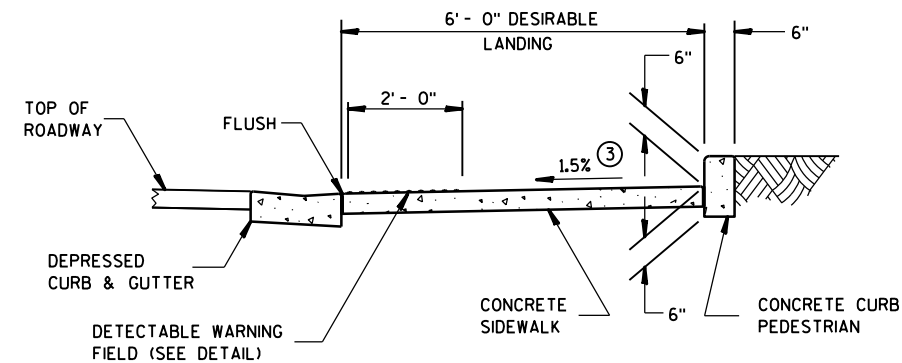
VIEW A-A



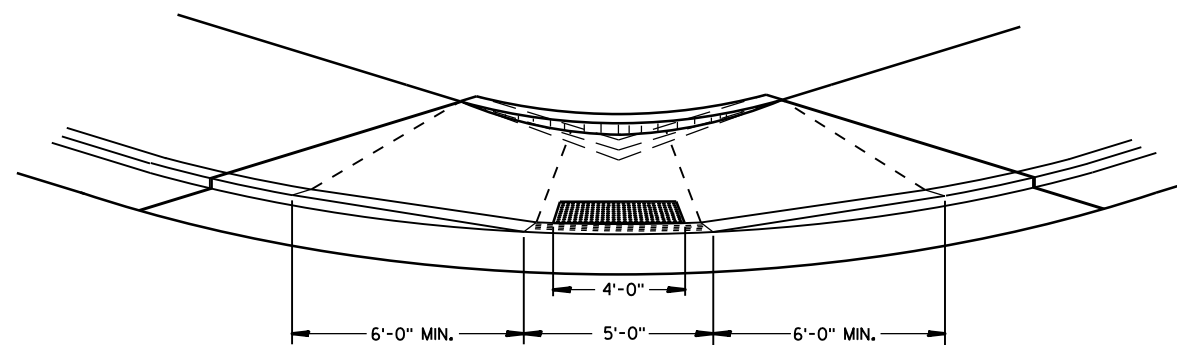
SECTION B-B



**PLAN VIEW
TYPE 1-A RAMP**
(NO TERRACE)



SECTION C-C



VIEW D-D

GENERAL NOTES

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

RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

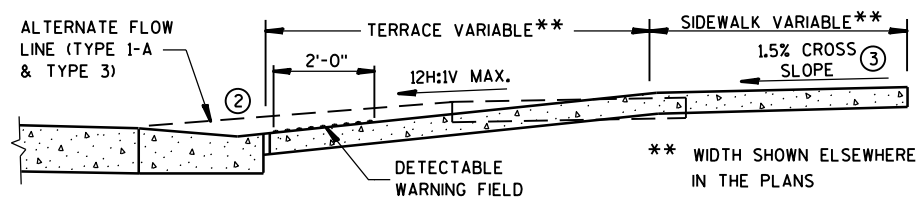
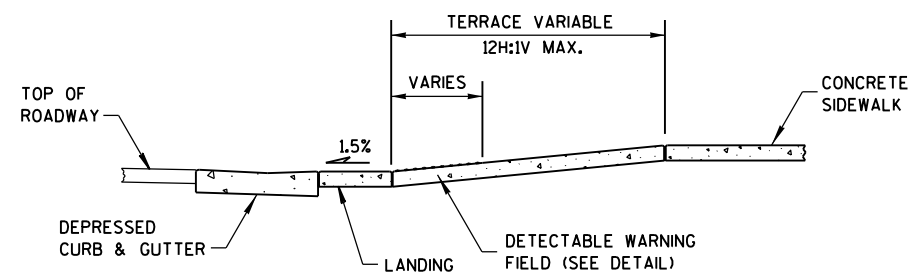
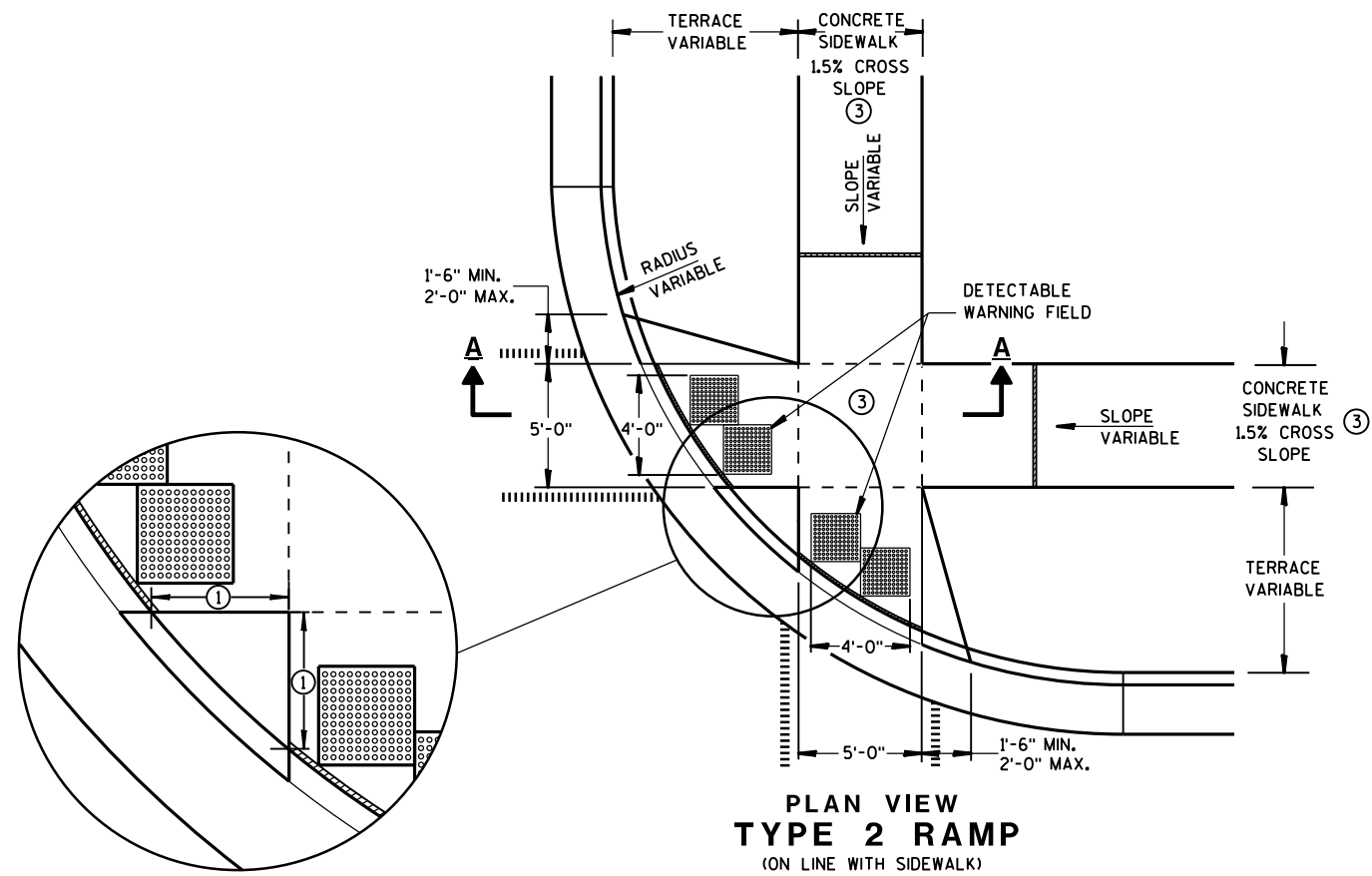
- ① THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.
- ② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.
- ③ $\pm 0.5\%$ CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

- 1/2" EXPANSION JOINT-SIDEWALK
- - - - - CONTRACTION JOINT FIELD LOCATED
- ||||||| PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

**CURB RAMPS
TYPES 1 AND 1-A**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



GENERAL NOTES

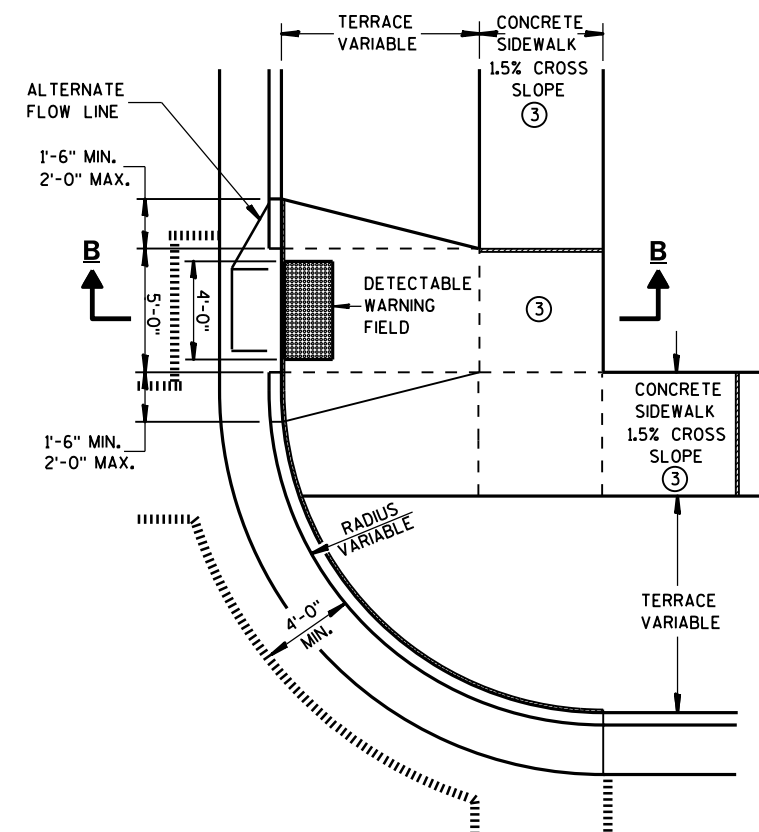
USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

- ① WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 12H:1V SLOPE, OR FLATTER, ON THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 12H:1V SLOPE, OR FLATTER, ON RAMP. 2" MINIMUM CURB HEIGHT.
- ② GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.
- ③ $\pm 0.5\%$ CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

LEGEND

- 1/2" EXPANSION JOINT-SIDEWALK
- - - CONTRACTION JOINT FIELD LOCATED
- ||||| PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

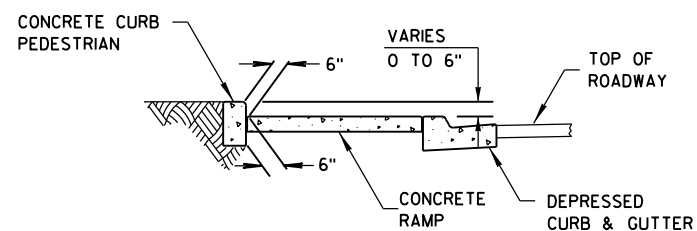


CURB RAMPS
TYPES 2 AND 3

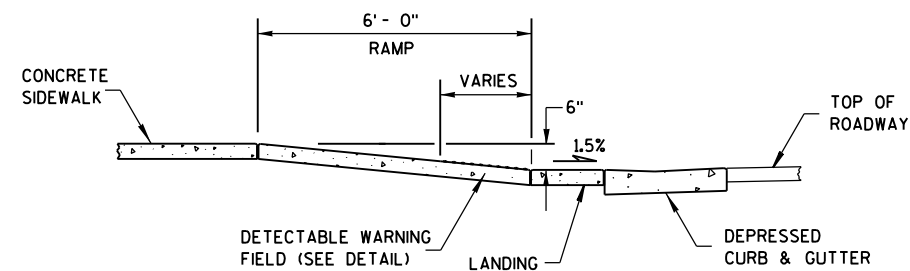
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CURB RAMP TYPE 4A
PLAN VIEW



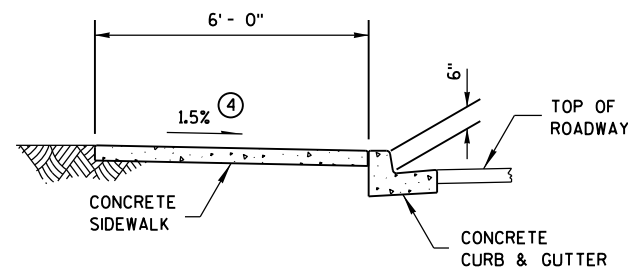
SECTION C-C FOR TYPE 4A



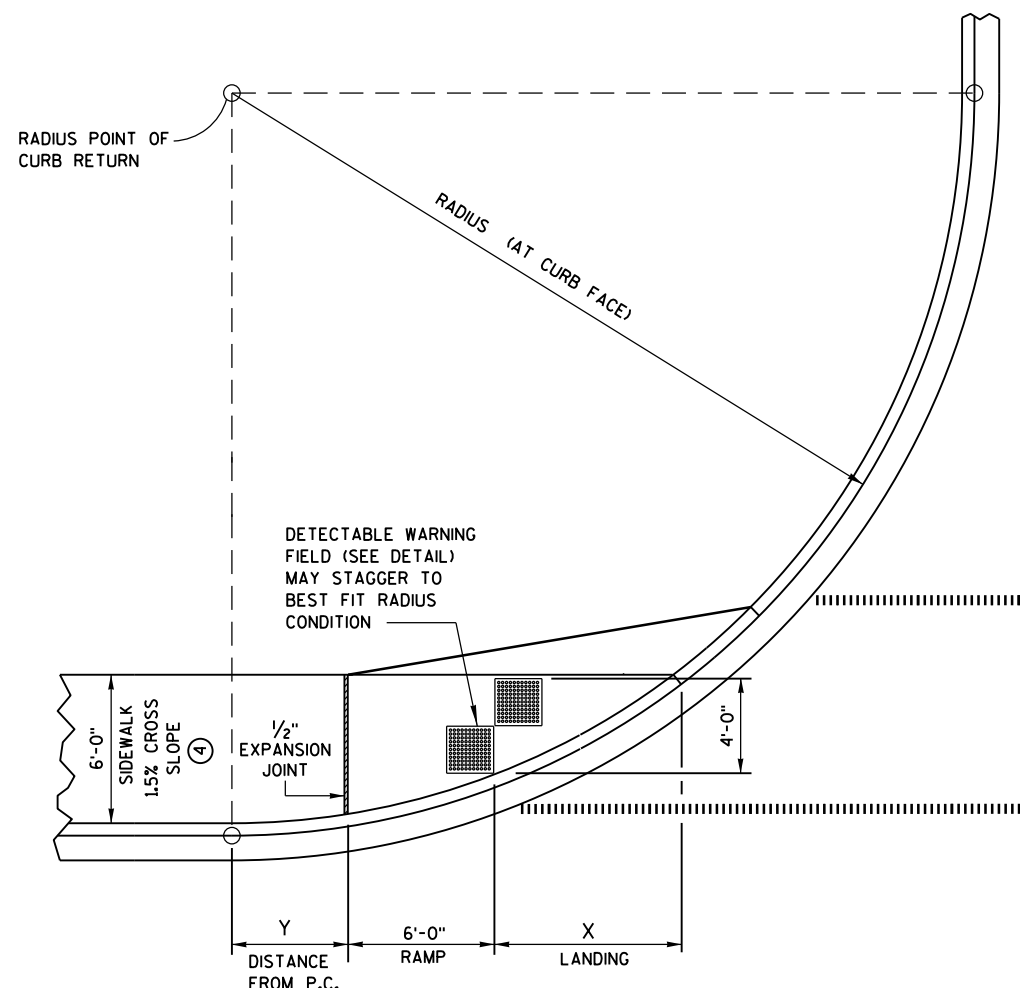
SECTION B-B FOR TYPE 4A

RADIUS (AT CURB FACE)	X	Y
20 FEET	6'-1¾"	2'-7¼"
30 FEET	7'-11¾"	4'-8¼"
40 FEET	9'-5¼"	6'-5"
50 FEET	10'-8¾"	7'-11¼"
60 FEET	11'-10¼"	9'-3½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A



CURB RAMP TYPE 4A1
PLAN VIEW

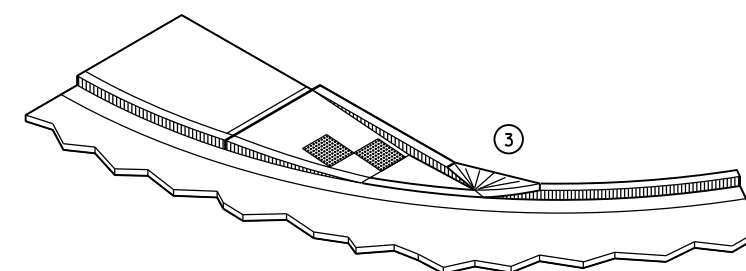
GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

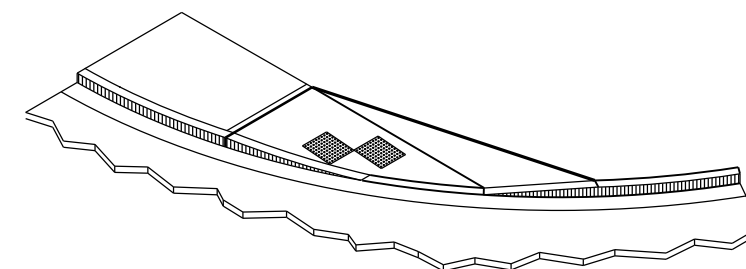
RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

- ③ INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.)
DO NOT MARK TRANSITION NOSE.
- ④ $\pm 0.5\%$ CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



ISOMETRIC VIEW FOR TYPE 4A



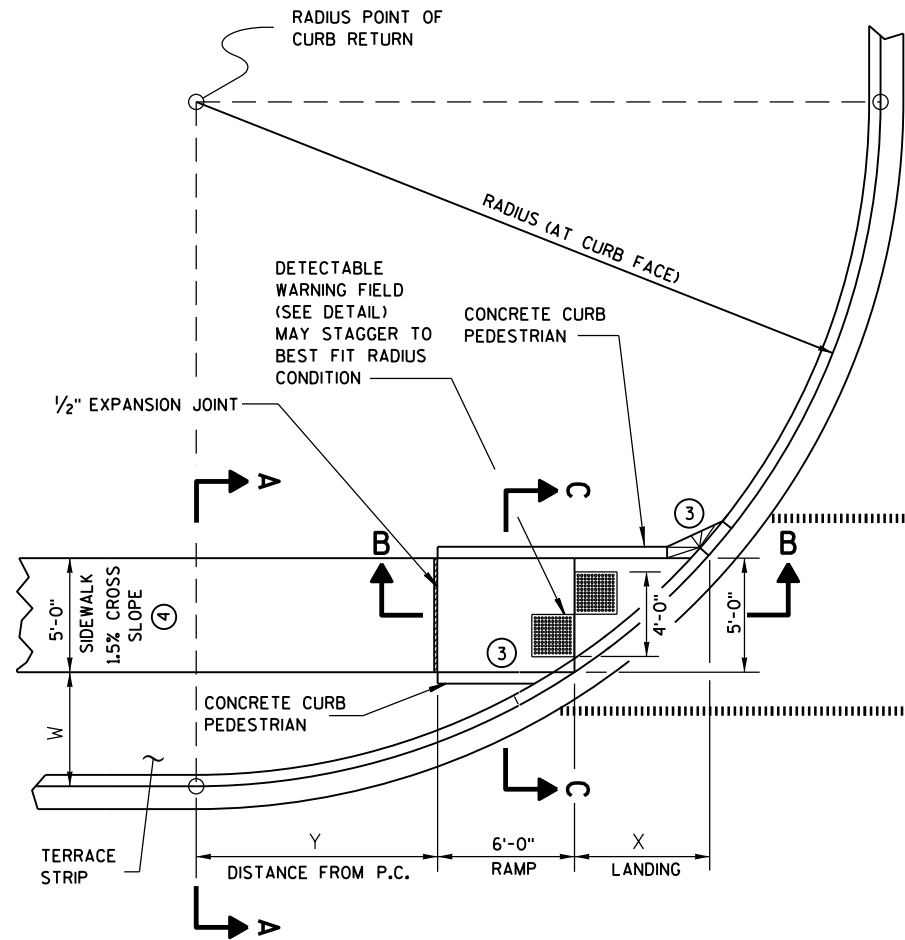
ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

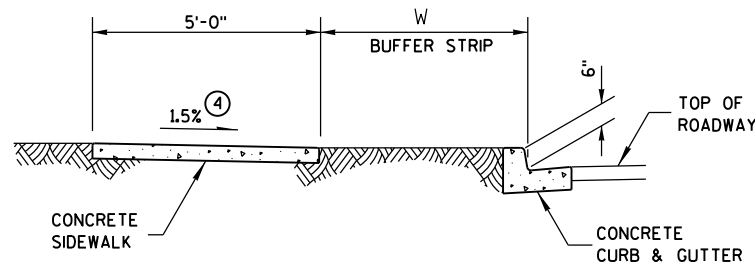
- | | |
|---|------------------------------------|
| | 1/2" EXPANSION JOINT-SIDEWALK |
|  | CONTRACTION JOINT FIELD LOCATED |
|  | PAVEMENT MARKING CROSSWALK (WHITE) |

CURB RAMPS TYPES 4A AND 4A1

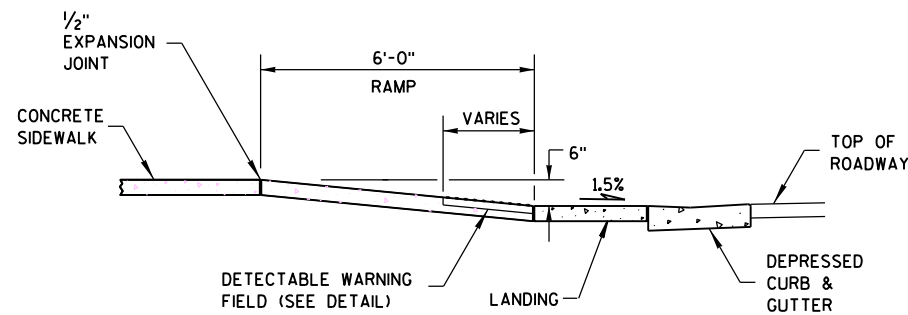
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



**CURB RAMP TYPE 4B
PLAN VIEW**



SECTION A-A FOR TYPE 4B

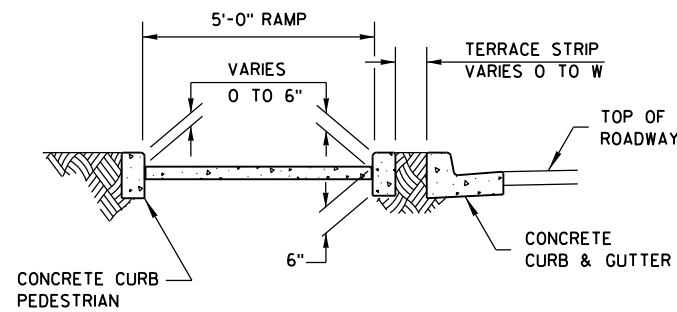


SECTION B-B FOR TYPE 4B

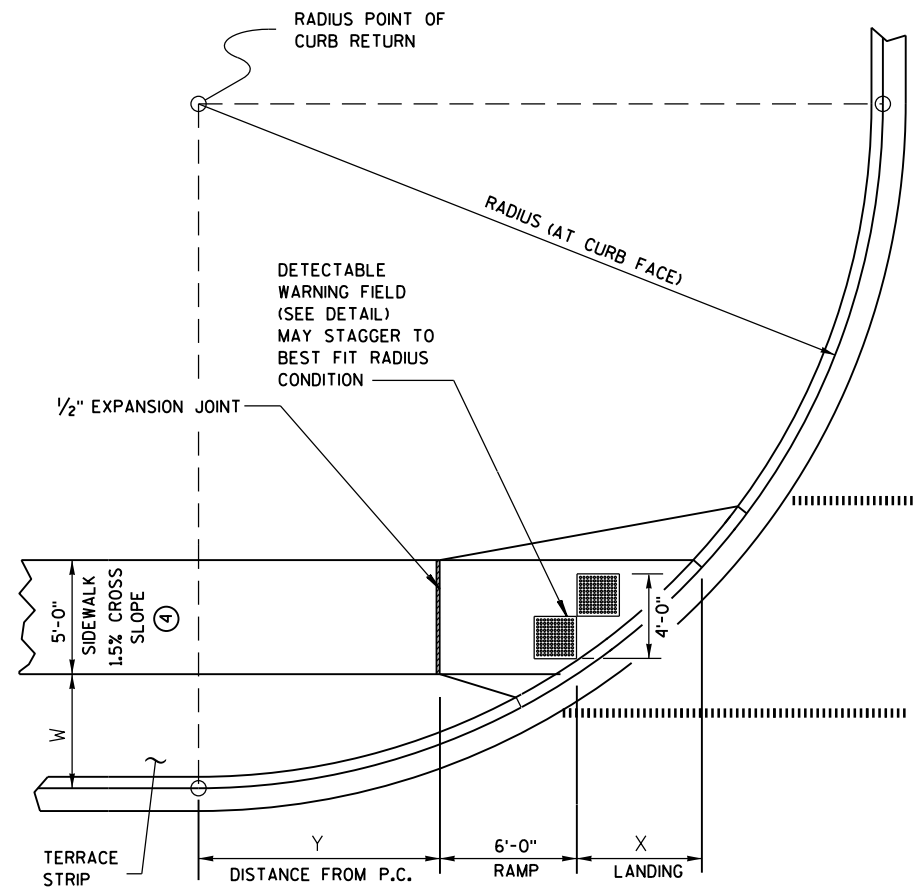
- LEGEND**
- 1/2" EXPANSION JOINT-SIDEWALK
 - CONTRACTION JOINT FIELD LOCATED
 - PAVEMENT MARKING CROSSWALK (WHITE)

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-5 1/2"	4'-6 1/2"	4'-8 1/2"	6'-0"	4'-1"	7'-2 3/4"	3'-7"	8'-3 1/2"	3'-1 1/2"	9'-2 1/2"
30 FEET	7'-3 3/4"	7'-1"	6'-5 1/2"	8'-11 1/2"	5'-9 1/4"	10'-7"	5'-2 1/2"	12'-0"	4'-8 3/4"	13'-3 1/4"
40 FEET	8'-9 1/2"	9'-2 1/2"	7'-10"	11'-5 1/4"	7'-1"	13'-4 1/2"	6'-5 3/4"	15'-3/4"	5'-11 1/2"	16'-7 1/4"
50 FEET	10'-3/4"	11'-3/4"	9'-1/4"	13'-7 1/4"	8'-2 1/2"	15'-9 1/2"	7'-6 1/2"	17'-9"	6'-11 3/4"	19'-6 1/4"
60 FEET	11'-2 1/2"	12'-8 3/4"	10'-3/4"	15'-6 1/2"	9'-2 1/4"	17'-11 3/4"	8'-5 3/4"	20'-1 3/4"	7'-10 1/2"	22'-1 1/2"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION C-C FOR TYPE 4B



**CURB RAMP TYPE 4B1
PLAN VIEW**

GENERAL NOTES

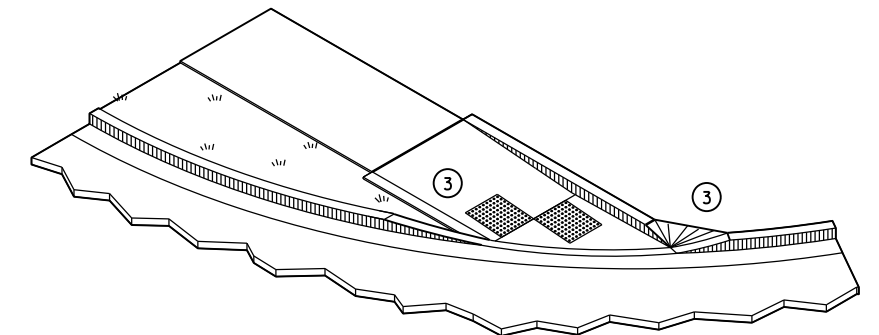
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

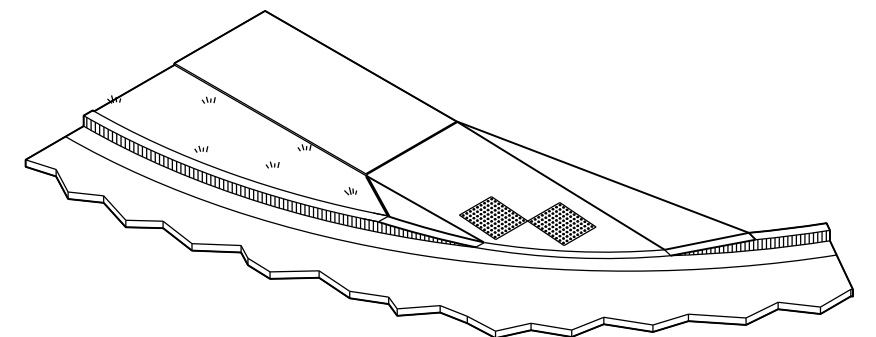
DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

③ INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

④ ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.



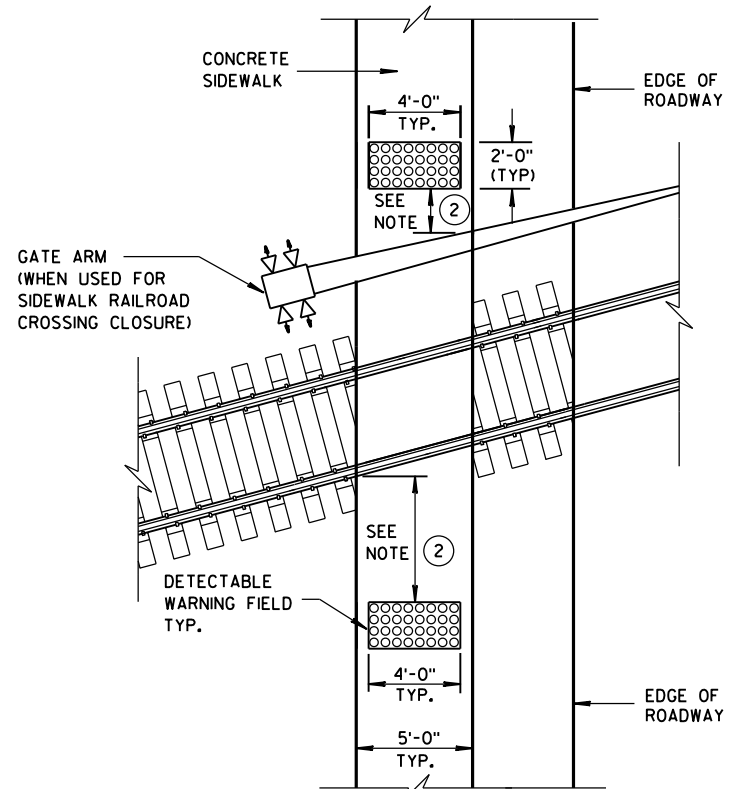
ISOMETRIC VIEW FOR TYPE 4B



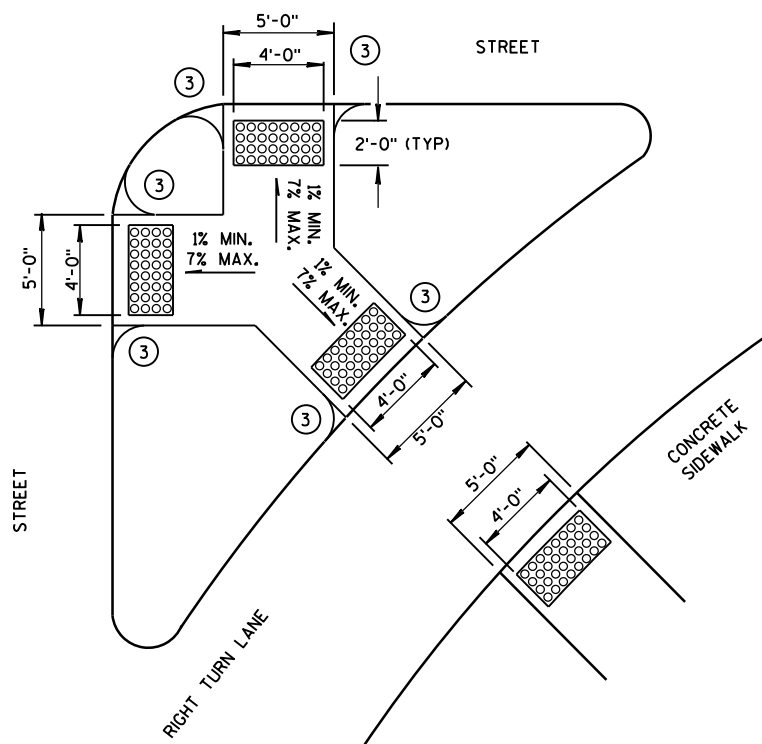
ISOMETRIC VIEW FOR TYPE 4B1

**CURB RAMPS
TYPE 4B AND 4B1**

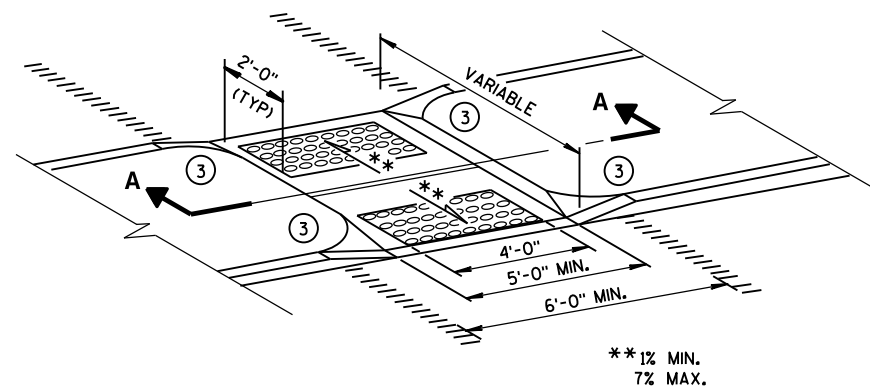
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



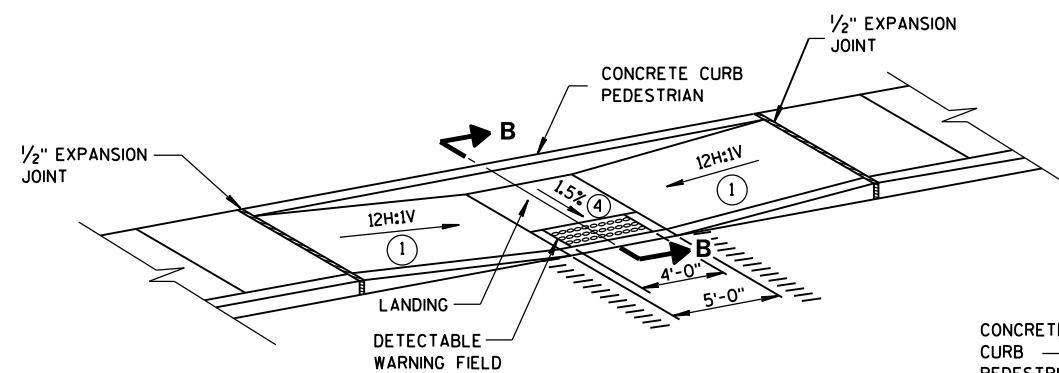
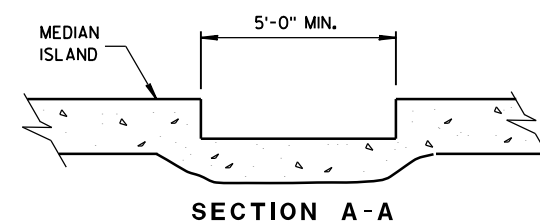
TYPE 8
DETECTABLE WARNINGS
AT RAILROAD CROSSING



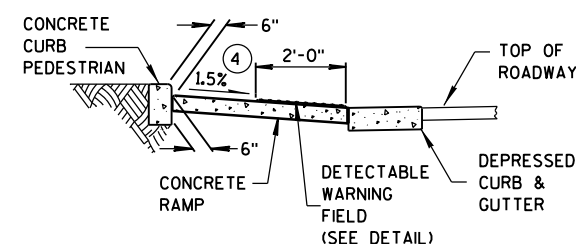
TYPE 6
DETECTABLE WARNING AT ISLANDS



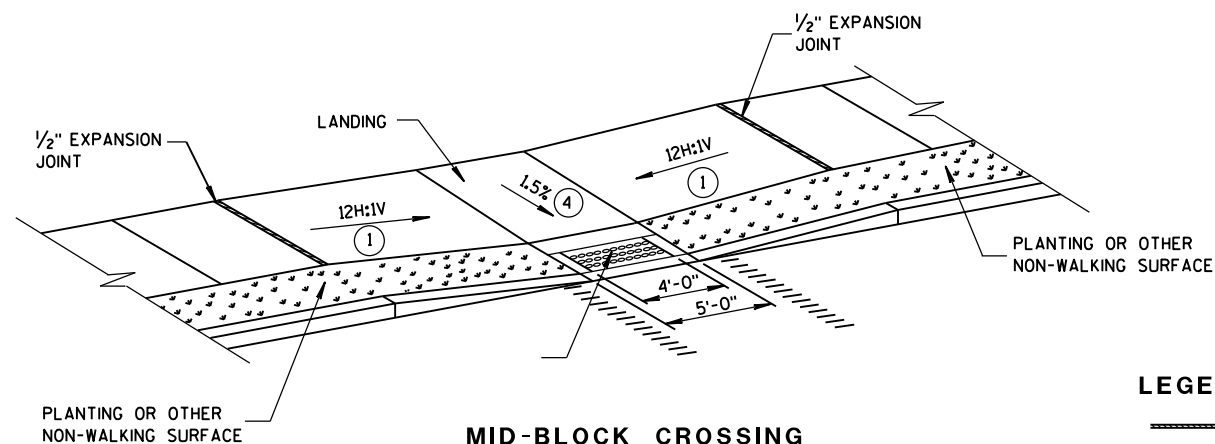
MEDIAN ISLAND
NON-ELEVATED CROSSING
TYPE 5



MID-BLOCK CROSSING
TYPE 7A



SECTION B-B



MID-BLOCK CROSSING
TYPE 7B

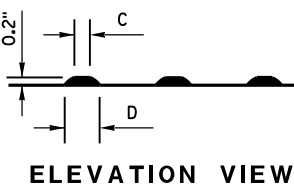
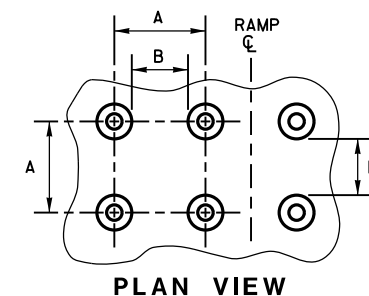
NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

- ① SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.
- ② THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET $\pm$ 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.
- ③ INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.
- ④ $\pm$ 0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

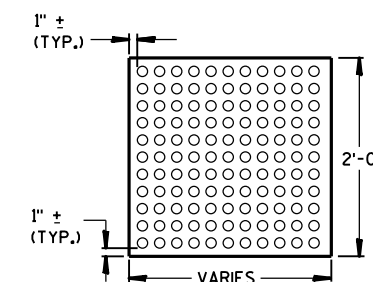


	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

TRUNCATED DOMES

DETECTABLE WARNING PATTERN DETAIL



PLAN VIEW
DETECTABLE WARNING
FIELD (TYPICAL)

LEGEND

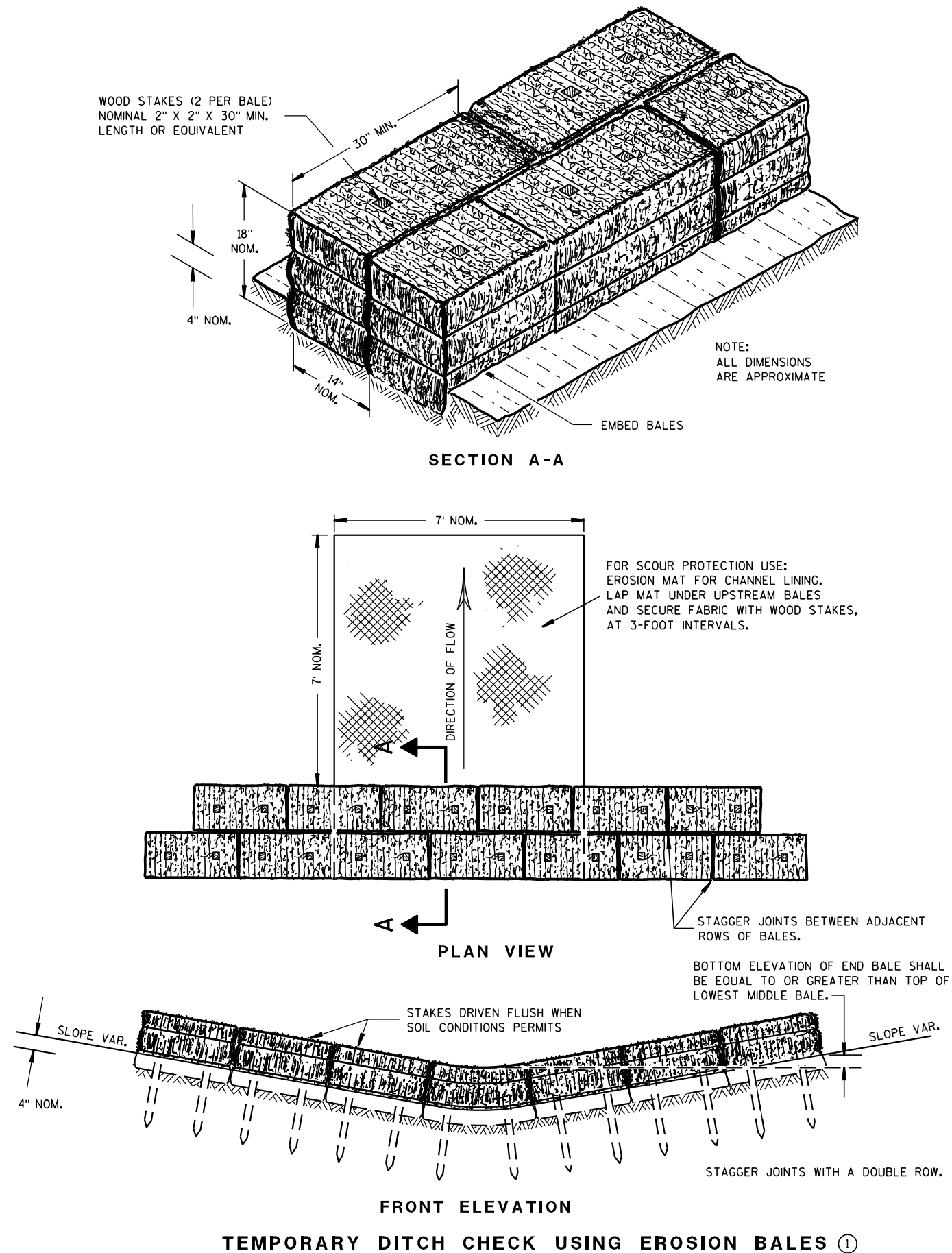
- 1/2" EXPANSION JOINT-SIDEWALK
- - - CONTRACTION JOINT FIELD LOCATED
- ||||| PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2-6-2013
DATE
FHWA

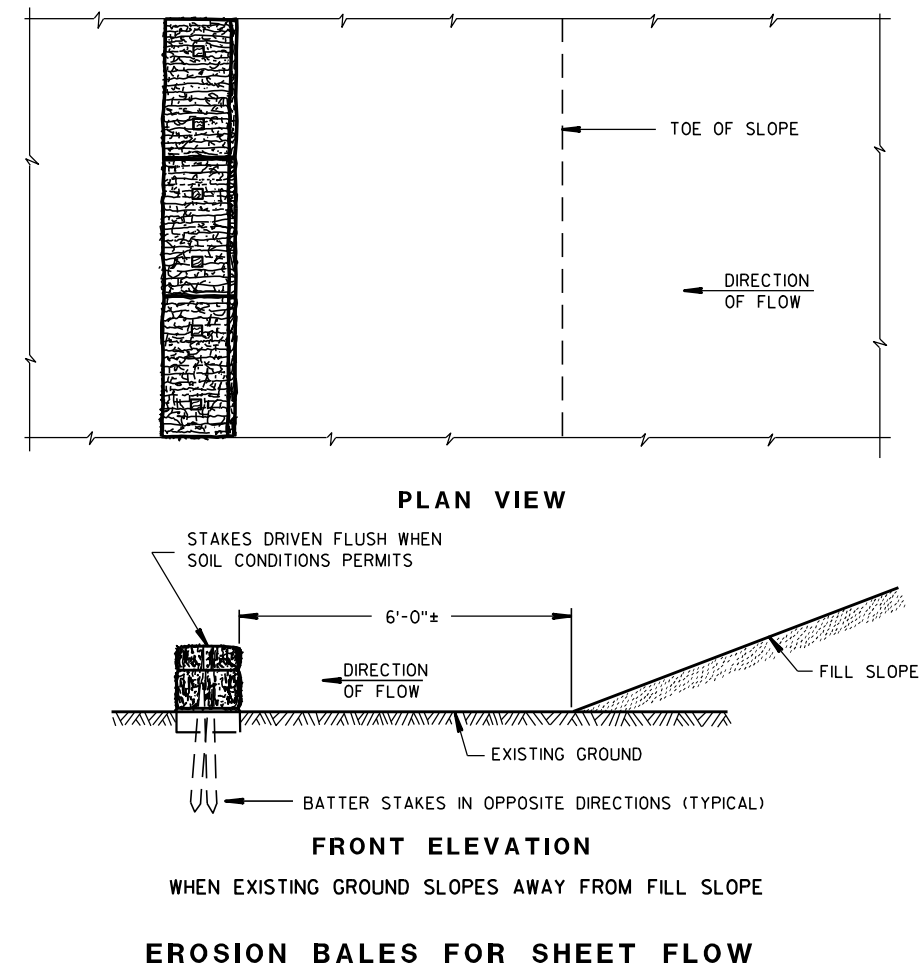
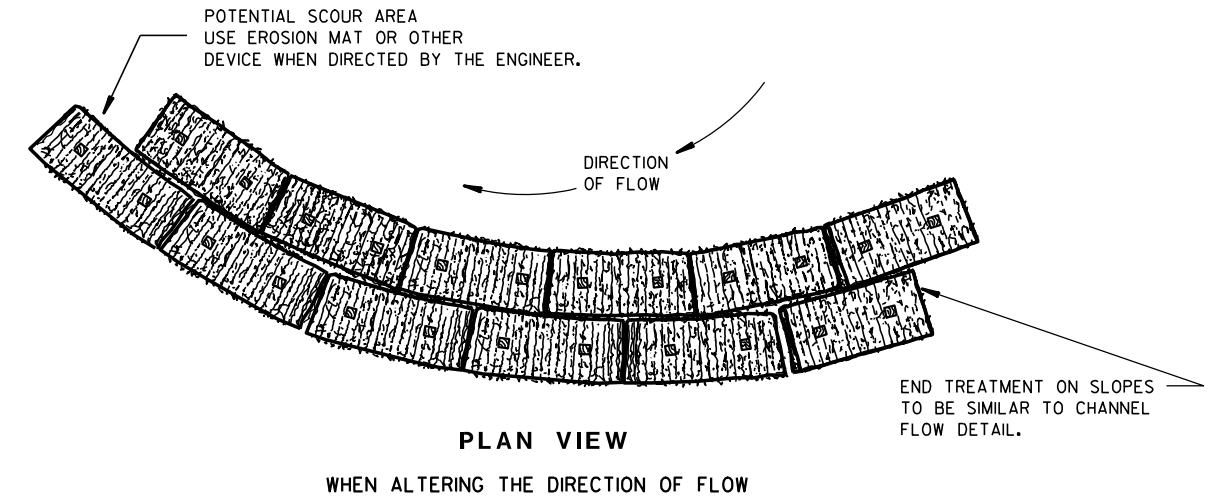
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER



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.

TYPICAL INSTALLATIONS OF
EROSION BALES / TEMPORARY
DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

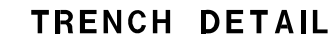
6/04/02
DATE

FHWA

/S/ Beth Canestra
CHIEF ROADWAY DEVELOPMENT ENGINEER



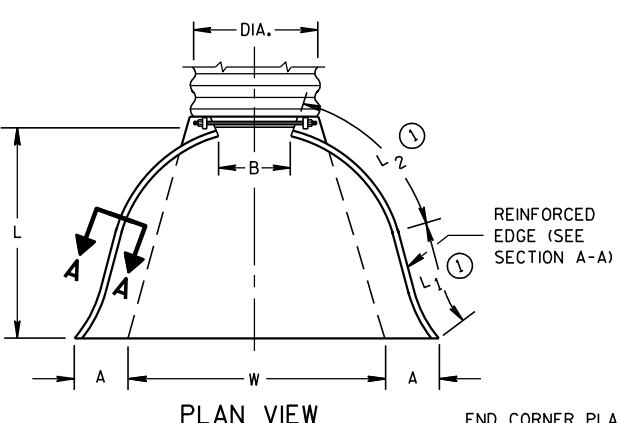
- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1½" X 1½" 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.



SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED <u>4-29-05</u> DATE	<u>/S/ Beth Cannestra</u> CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	

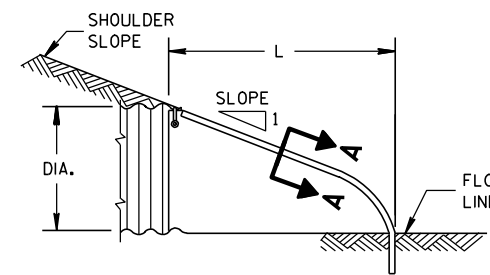
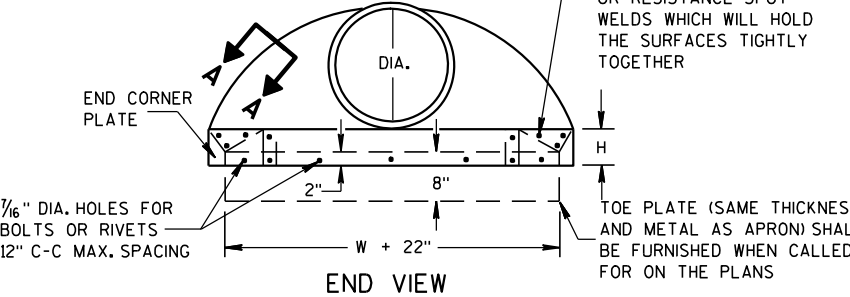
METAL APRON ENDWALLS											
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE	BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")		
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	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	.109x	.105x	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109x	.105x	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109x	.105x	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109x	.105x	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109x	.105x	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109x	.105x	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109x	.105x	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

* EXCEPT CENTER PANEL
SEE GENERAL NOTES



END CORNER PLATES MAY BE FASTENED TO APRON PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD THE SURFACES TIGHTLY TOGETHER

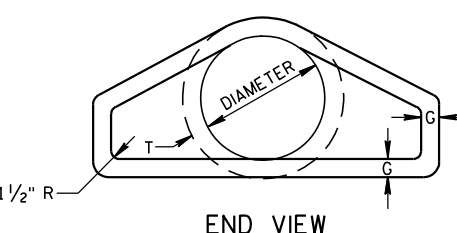
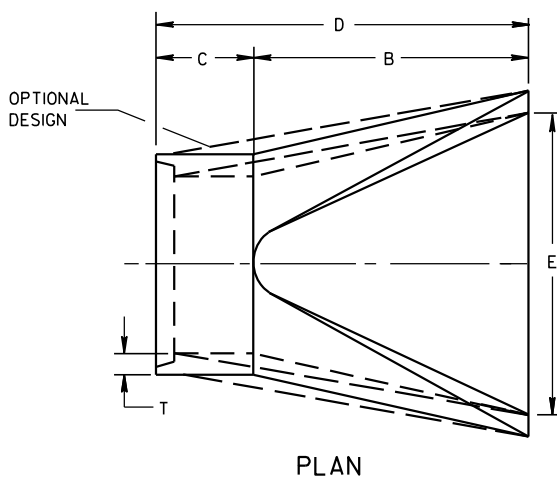
TOE PLATE (SAME THICKNESS AND METAL AS APRON) SHALL BE FURNISHED WHEN CALLED FOR ON THE PLANS



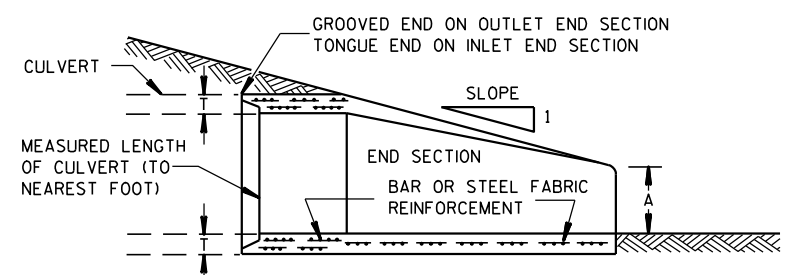
SIDE ELEVATION
METAL ENDWALLS

REINFORCED CONCRETE APRON ENDWALLS									
PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE	
	T	A	B	C	D	E	G		
12	2	4	24	48 7/8	72 7/8	24	2	3 to 1	
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1	
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1	
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1	
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1	
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1	
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1	
36	4	15	63	34 3/4	97 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

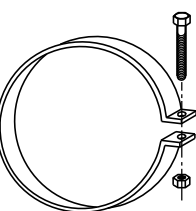


END VIEW

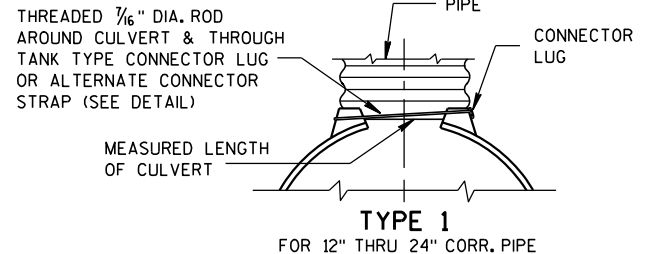


LONGITUDINAL SECTION
CONCRETE ENDWALLS

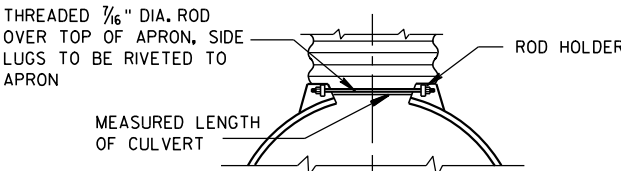
1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT



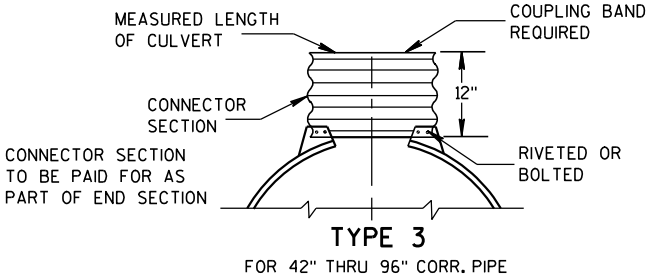
ALTERNATE FOR TYPE 1 CONNECTION
END SECTION CONNECTOR STRAP



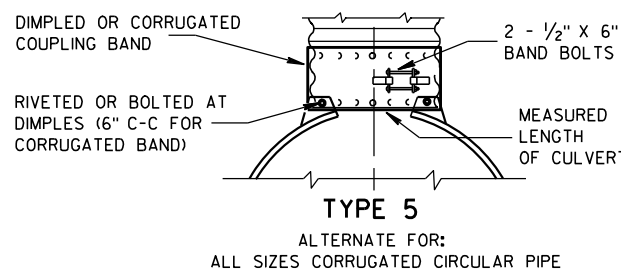
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

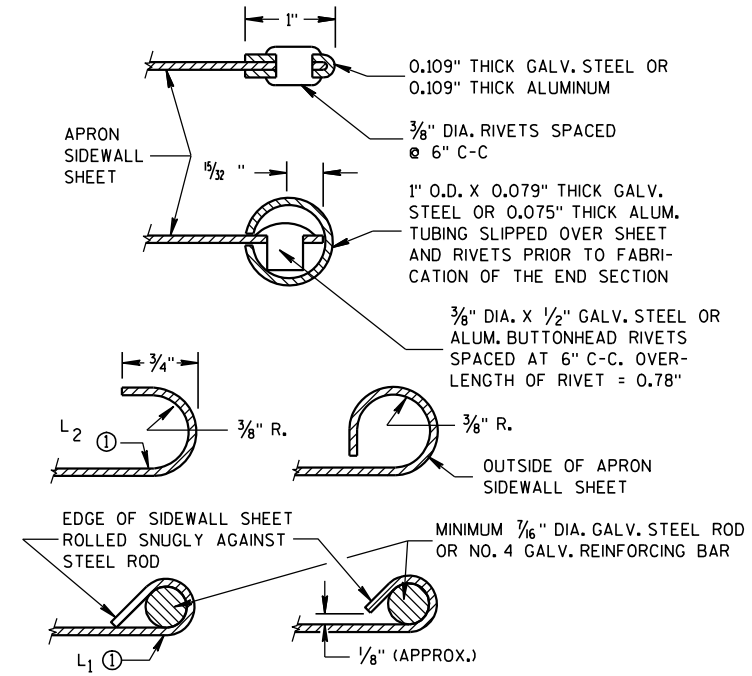
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

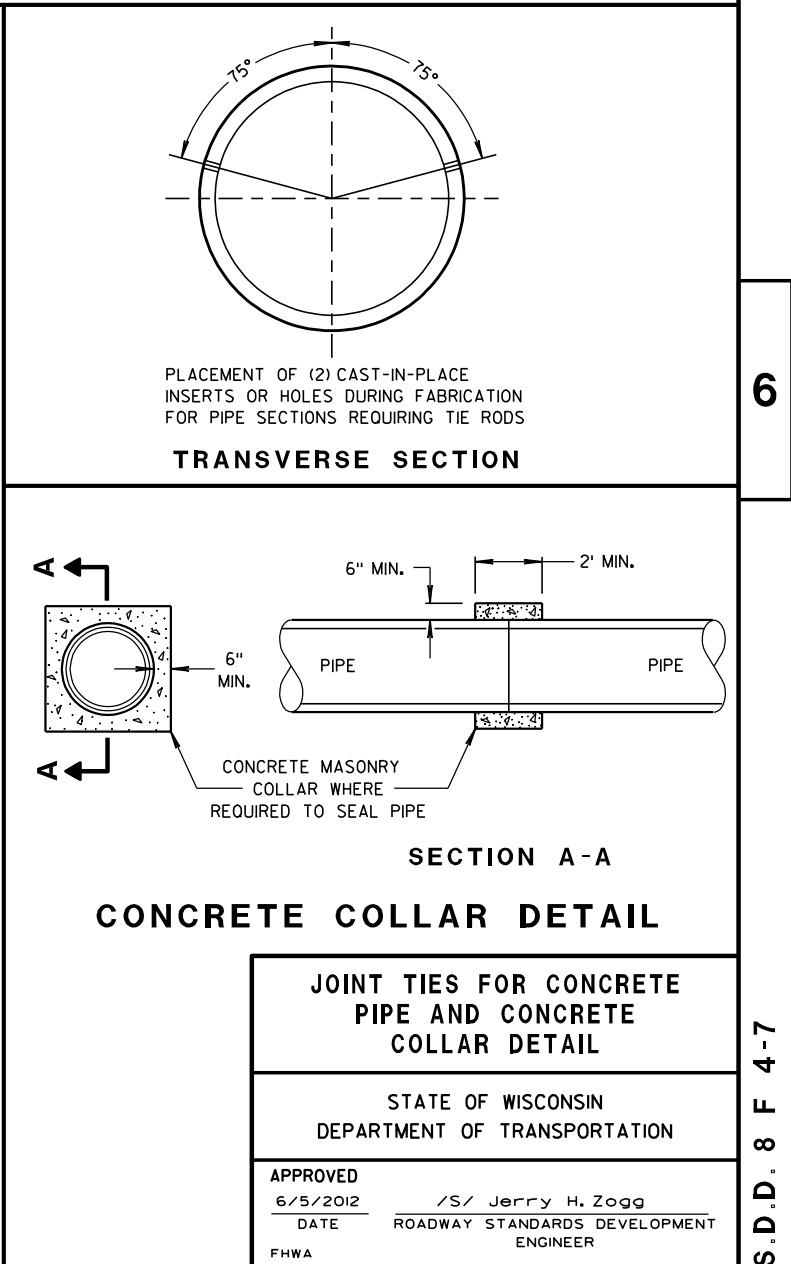
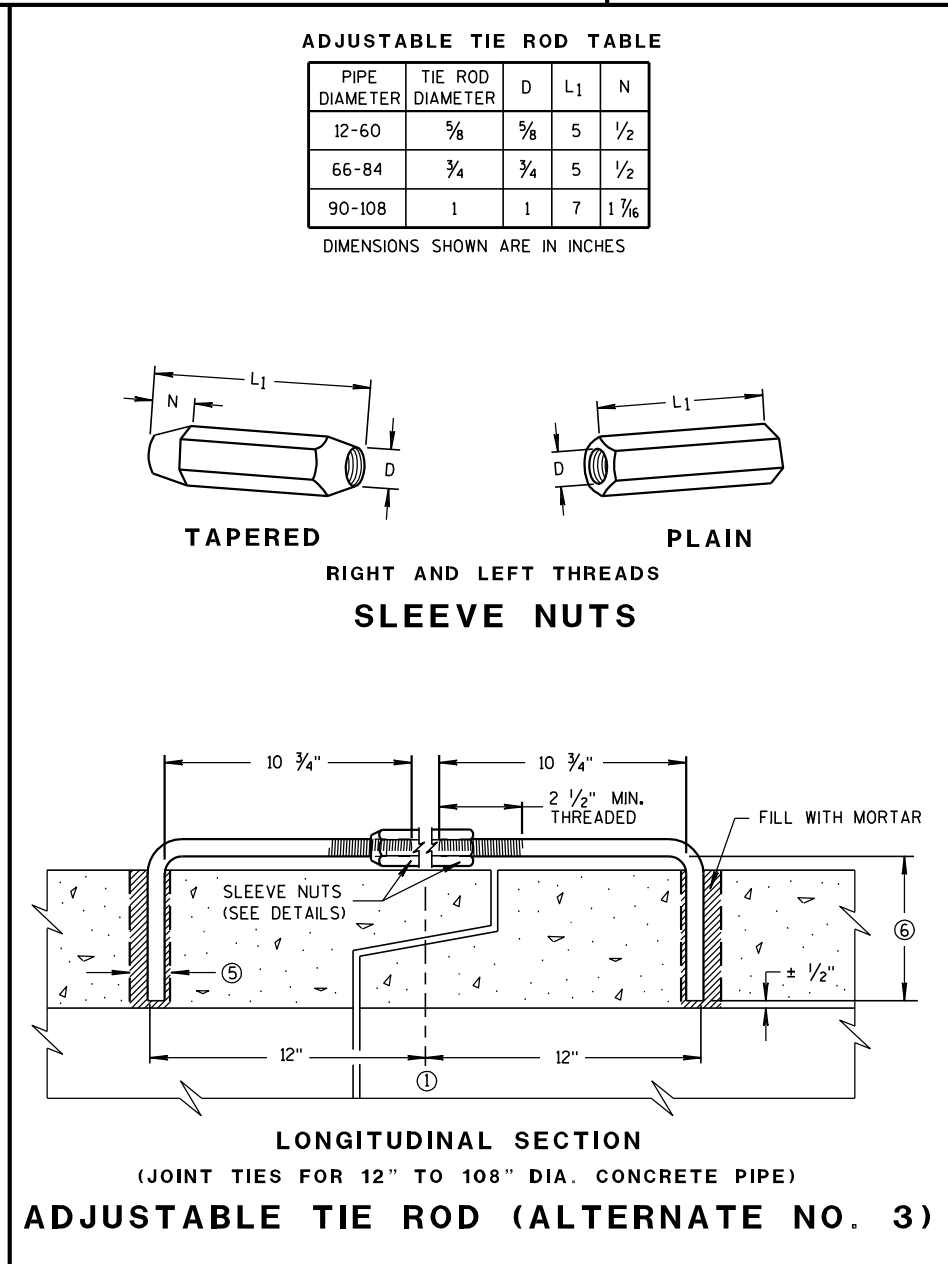
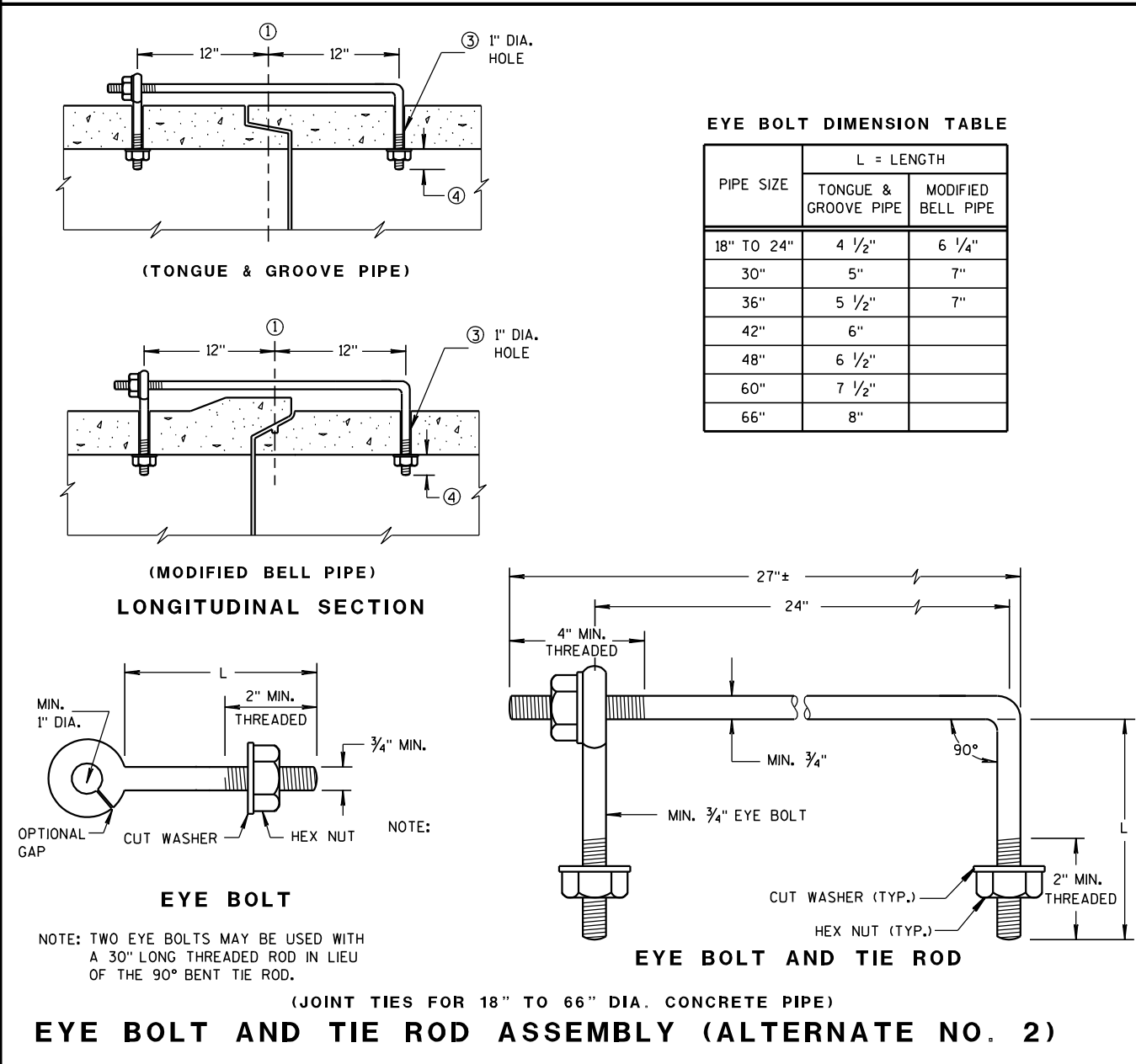
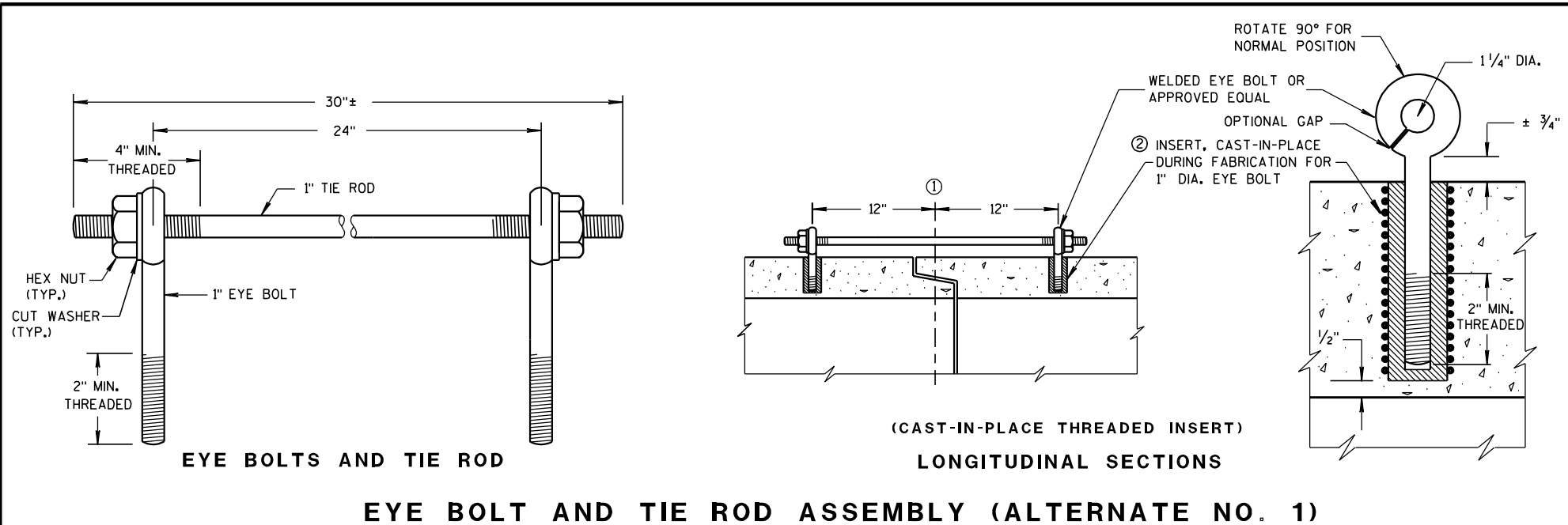
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

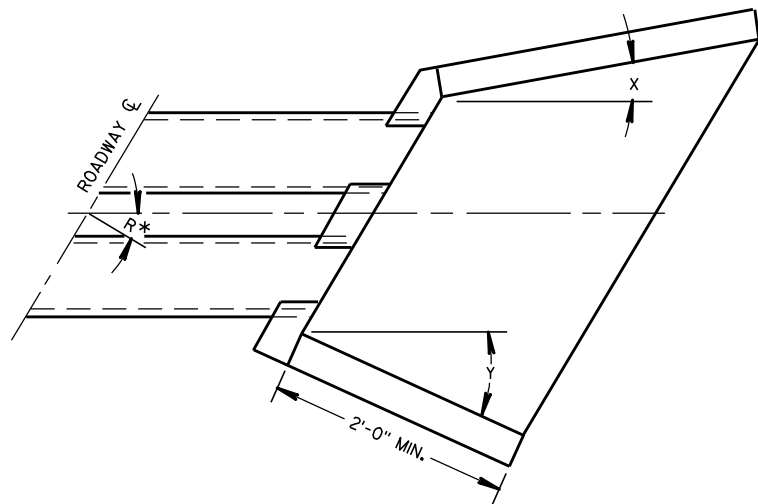
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

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





WINGWALL ANGLE DETAILS

INLET			OUTLET		
R*	X	Y	R*	X	Y
0 - 7°	30°	30°	0 - 15°	15°	15°
8 - 22°	25°	"	16 - 45°	10°	"
23 - 37°	20°	"	46 - 75°	5°	"
38 - 52°	15°	"	OVER 75°	0°	"
53 - 67°	10°	"			
68 - 82°	5°	"			
OVER 82°	0°	"			

*R = NUMBER OF DEGREES RIGHT OR LEFT HAND FORWARD

GENERAL NOTES

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

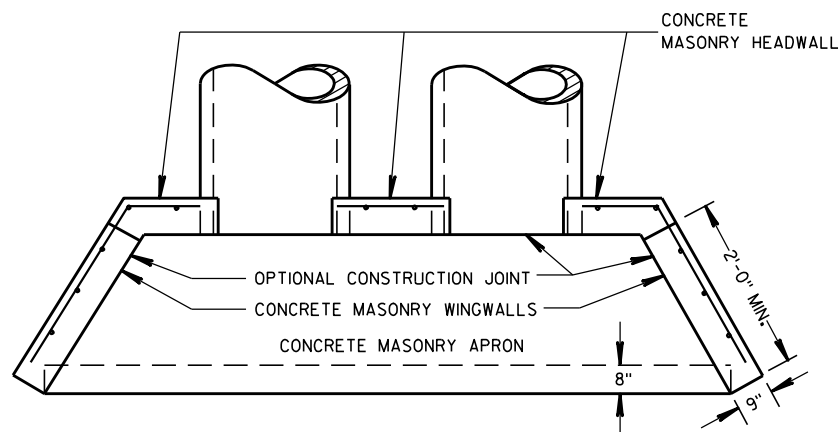
FILL SLOPES FLATTER THAN 2 1/2:1 SHALL BE WARPED TO MEET THE TOP OF THE WINGWALLS.

ALL STEEL REINFORCEMENT AND WELDED STEEL WIRE FABRIC SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE NOTED.

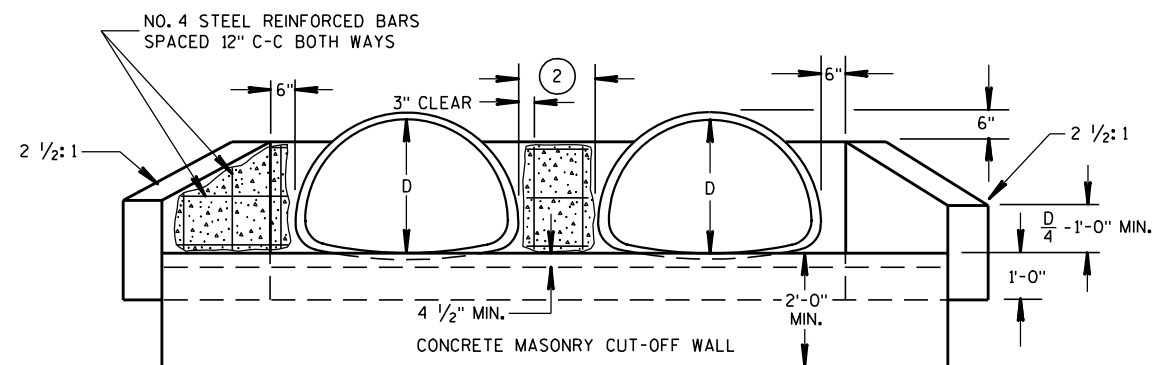
① MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS SPACED 12" C-C IN BOTH DIRECTIONS.

② THE SPACE BETWEEN PIPES SHALL BE AS FOLLOWS:

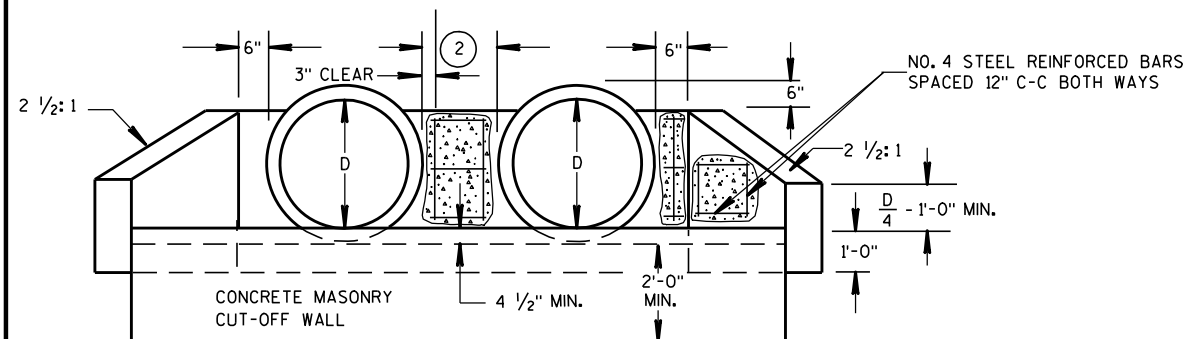
DIAMETER OR SPAN	SPACE
UP TO AND INCLUDING 48"	2'-0"
OVER 48" TO 72"	1/2 DIA. OR SPAN
OVER 72"	3'-0"



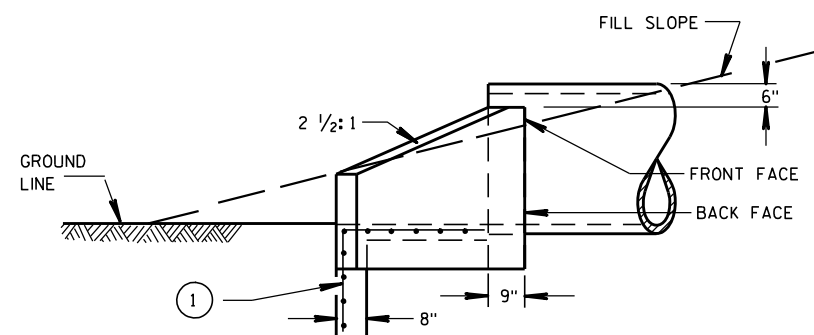
PLAN VIEW
CULVERT PIPE AND PIPE ARCH



END ELEVATION
PIPE ARCH



END ELEVATION
CULVERT PIPE



SIDE ELEVATION
CULVERT PIPE AND PIPE ARCH

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

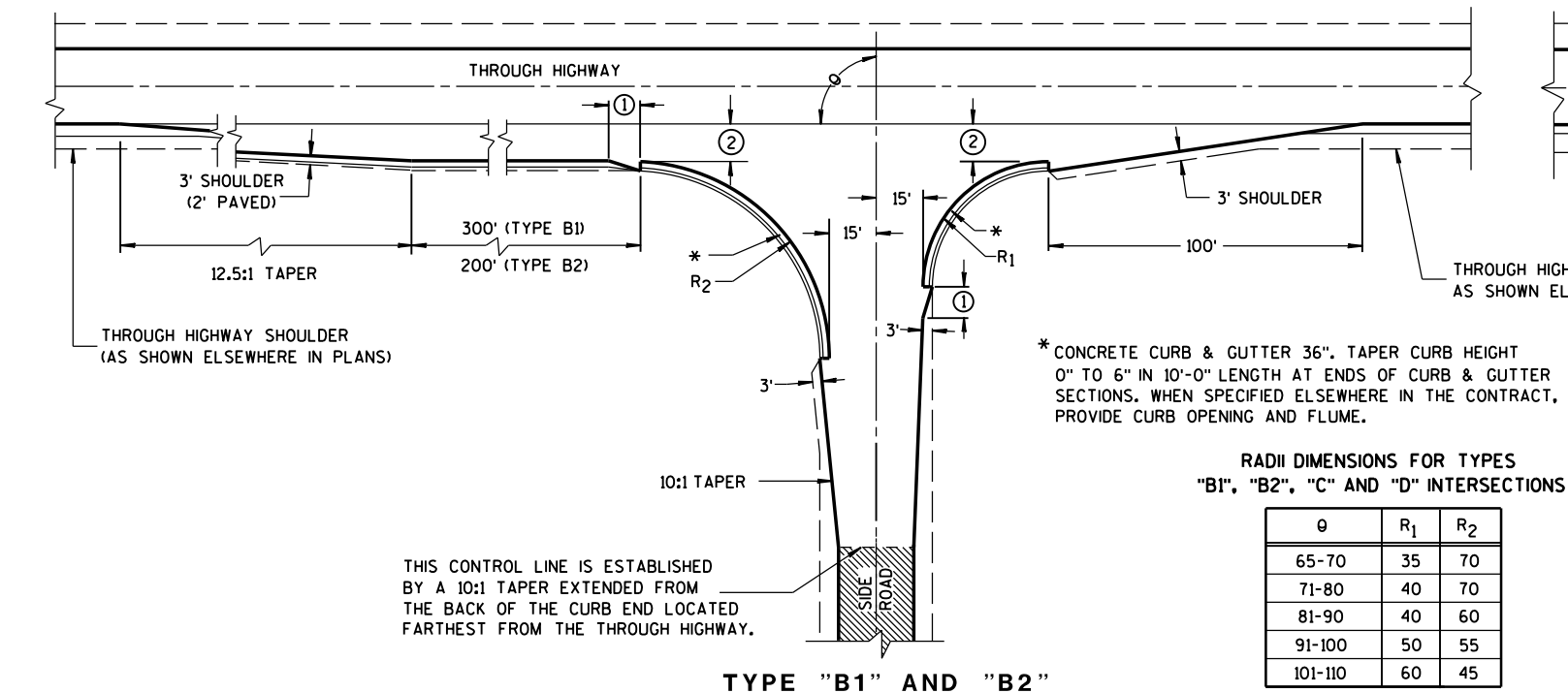
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/14/98
DATE

/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA



GENERAL NOTES

DESIGNS MAY BE USED INTERCHANGEABLY IN COMBINATION OR SEPARATELY FOR ANY ONE COMPLETE INTERSECTION DEPENDING UPON INTERSECTION ANGLE AND SURFACING OF EACH APPROACH ROADWAY.

SIDE ROAD SURFACING NOTE

WHEN THE SIDE ROAD IS NOT PRESENTLY PAVED, PAVEMENT SHALL BE PLACED TO THE LIMITS SHOWN UNLESS OTHERWISE PROVIDED IN THE CONTRACT. WHERE THE CONSTRUCTION LIMITS ARE BEYOND THE PAVING LIMITS, CRUSHED AGGREGATE SURFACING SHALL BE PLACED BETWEEN THE PAVING LIMITS AND CONSTRUCTION LIMITS.

WHEN THE SIDE ROAD IS PRESENTLY PAVED, NEW PAVEMENT SHALL BE PLACED TO THE LIMITS OF DESIGN AS SHOWN AND BEYOND, IF NECESSARY, TO MEET EXISTING PAVEMENT.

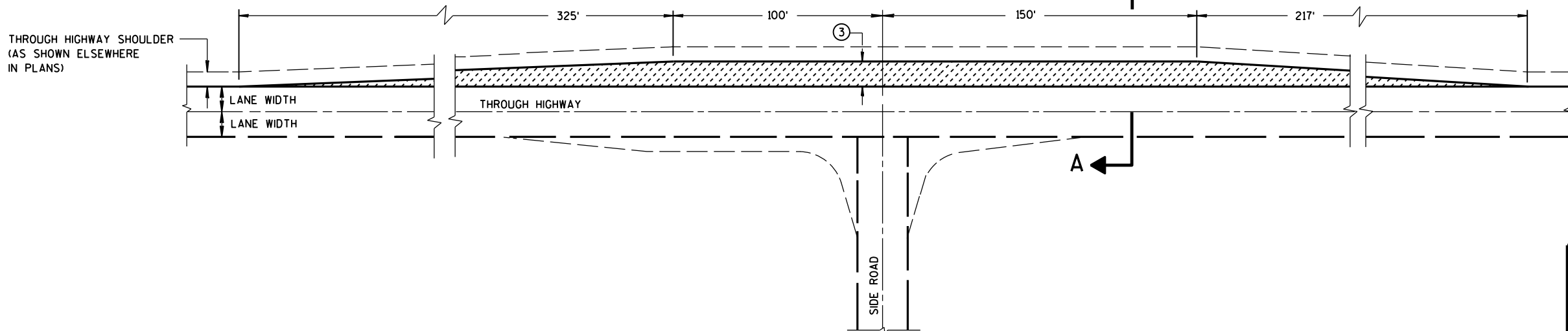
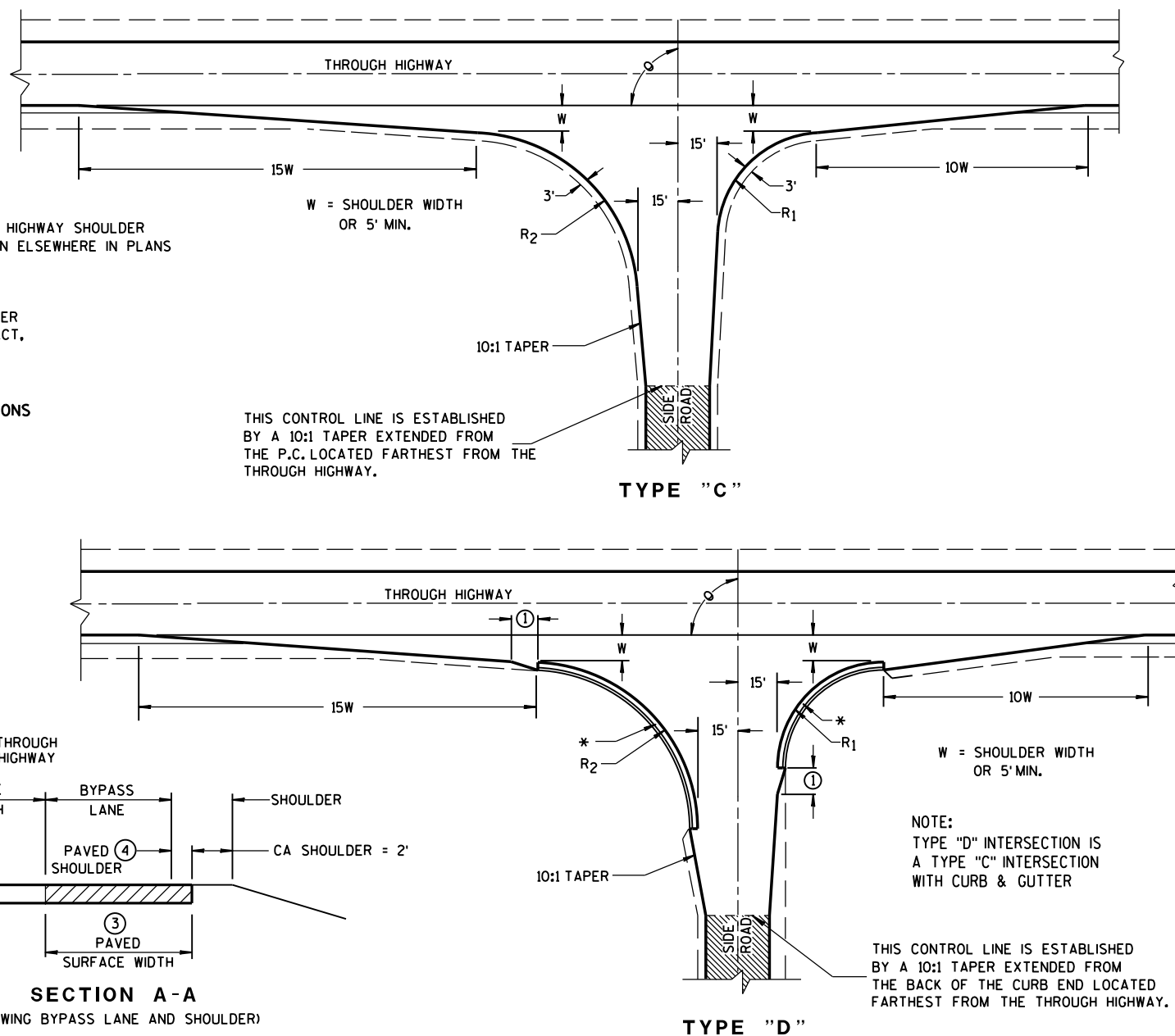
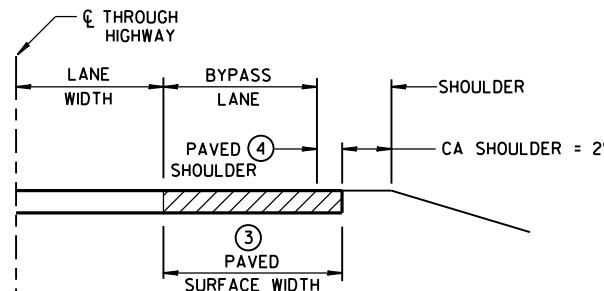
WHEN THE SIDE ROAD IS THE CONSTRUCTION PROJECT, THE INTERSECTION SURFACING SHALL BE THE SAME AS FOR THE PROJECT.

EXISTING PAVED SURFACE

BYPASS LANE

- 10-FT TYPICAL.
- 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

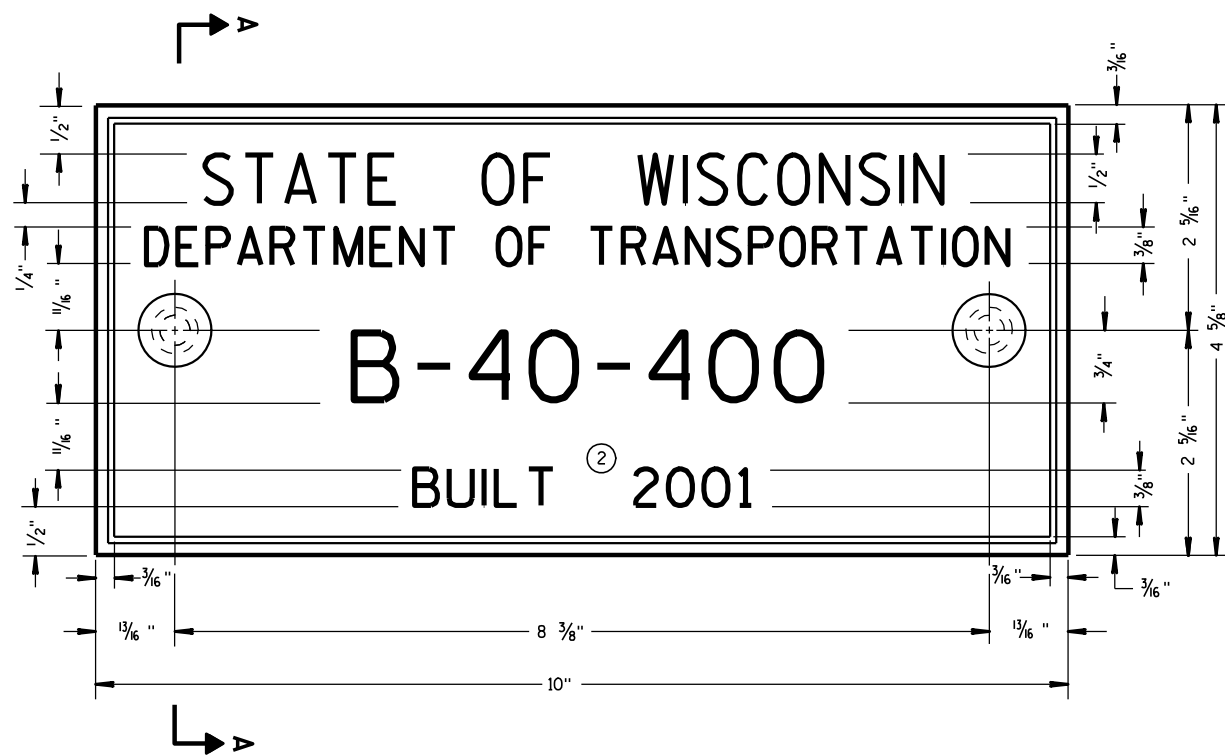
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.
- BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.
- BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



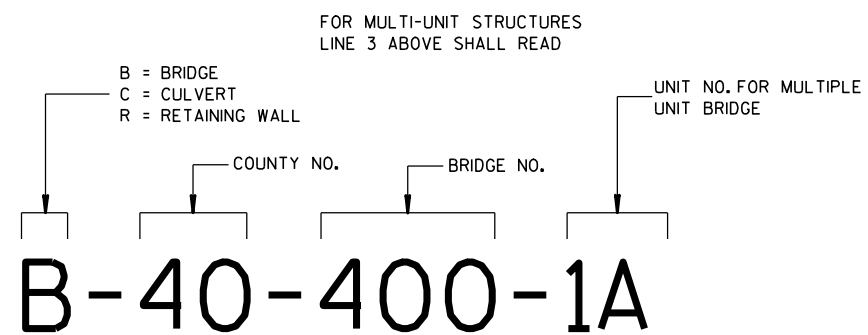
TEE INTERSECTION BYPASS LANE DETAIL

AT-GRADE SIDE ROAD
INTERSECTION, TYPES "B1", "B2",
"C" AND "D" AND TEE
INTERSECTION BYPASS LANE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)



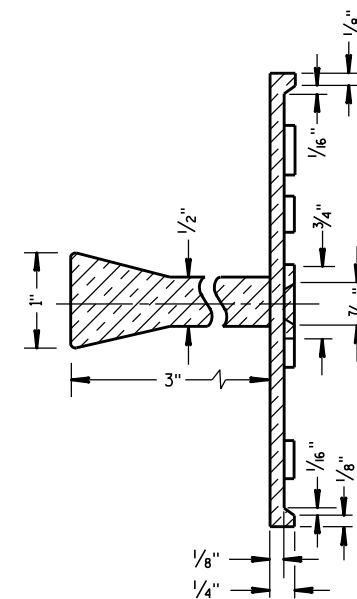
**NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES**

GENERAL NOTES

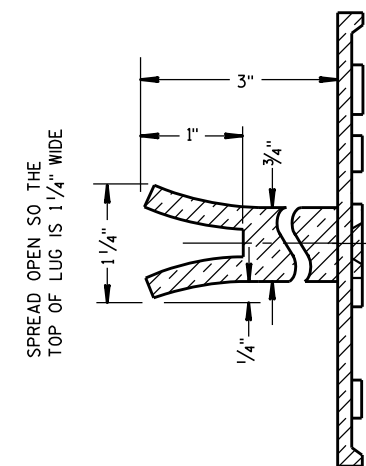
NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

- ① EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ② REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.

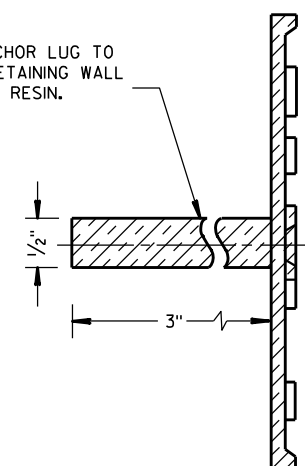


SECTION A-A



ALTERNATE LUG

- ① ADHERE ANCHOR LUG TO PRECAST RETAINING WALL WITH EPOXY RESIN.



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

**NAME PLATE
(STRUCTURES)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10
DATE

FHWA

/S/ Scot Becker
CHIEF STRUCTURAL DEVELOPMENT ENGINEER

GENERAL NOTES

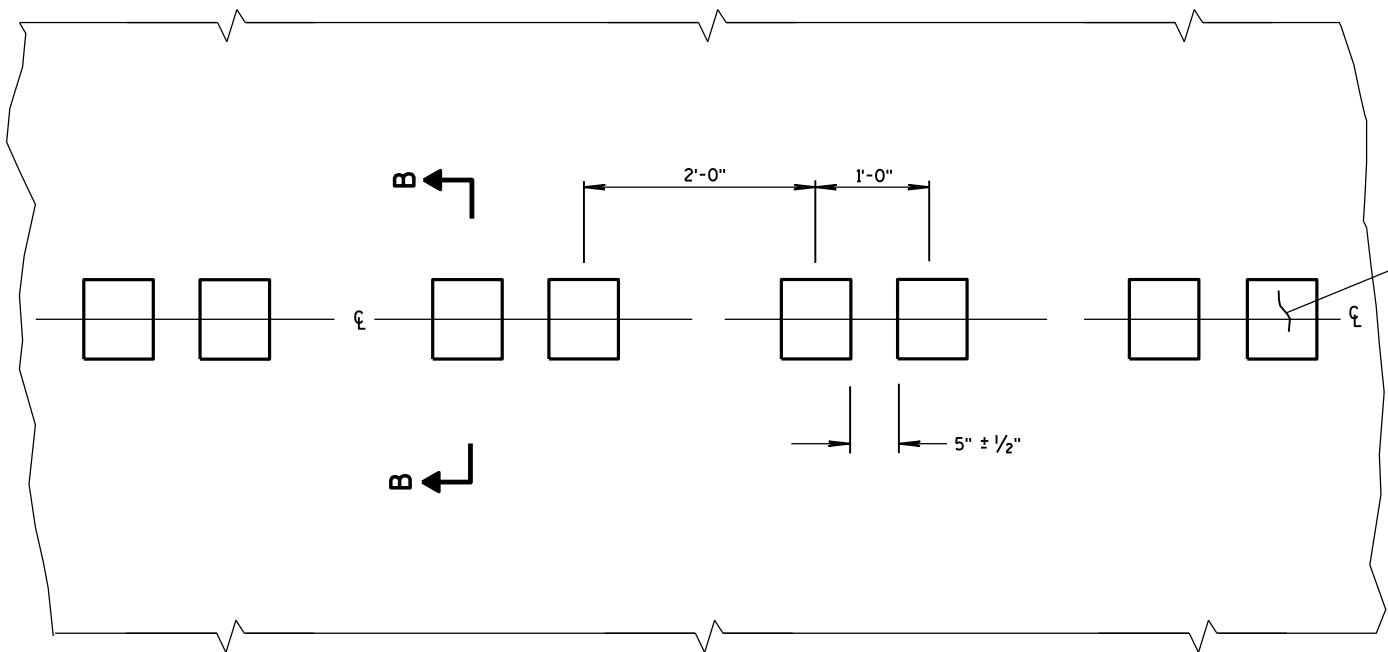
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTER LINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

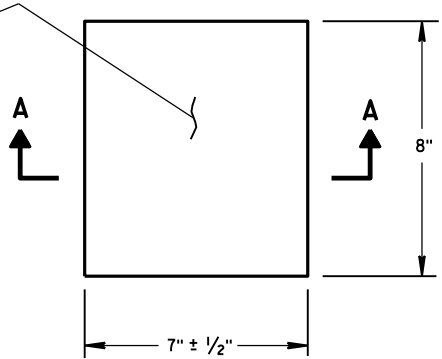
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

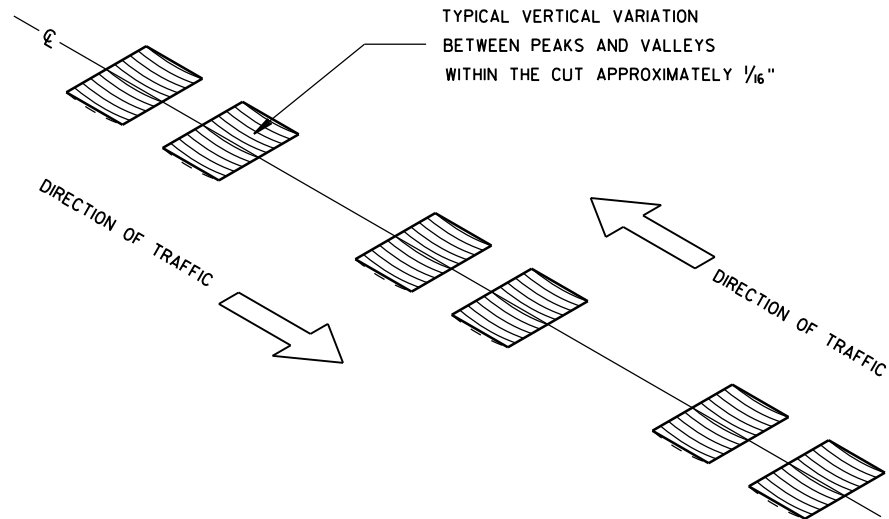
- ① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



PLAN VIEW
CENTER LINE WITH GROOVES

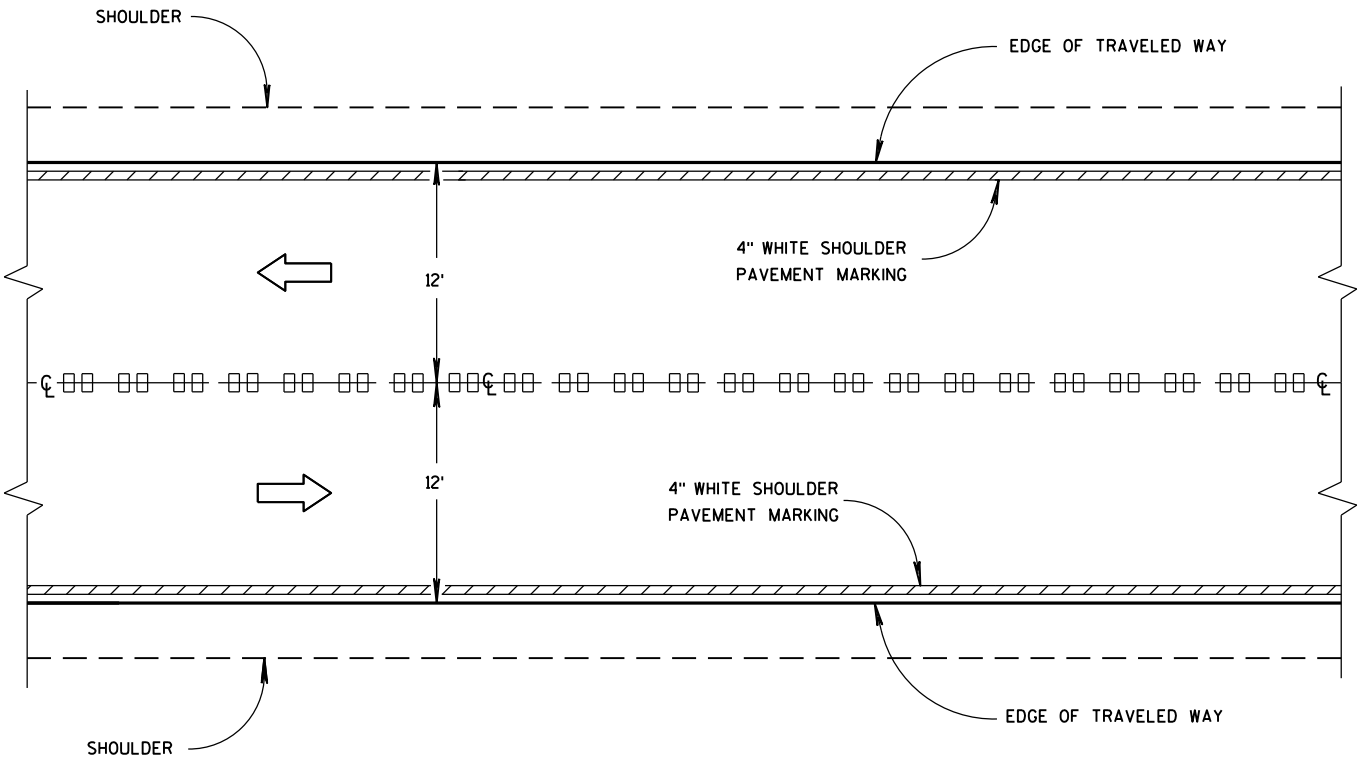


PLAN VIEW
(SINGLE GROOVE)

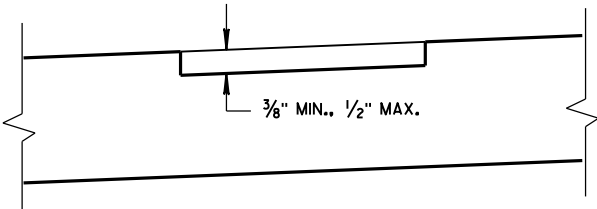


ISOMETRIC

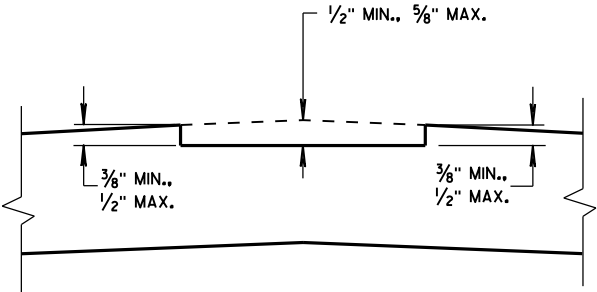
PLACEMENT DETAIL FOR MILLED RUMBLE STRIP



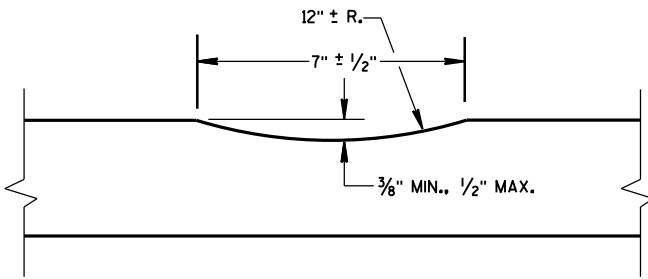
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



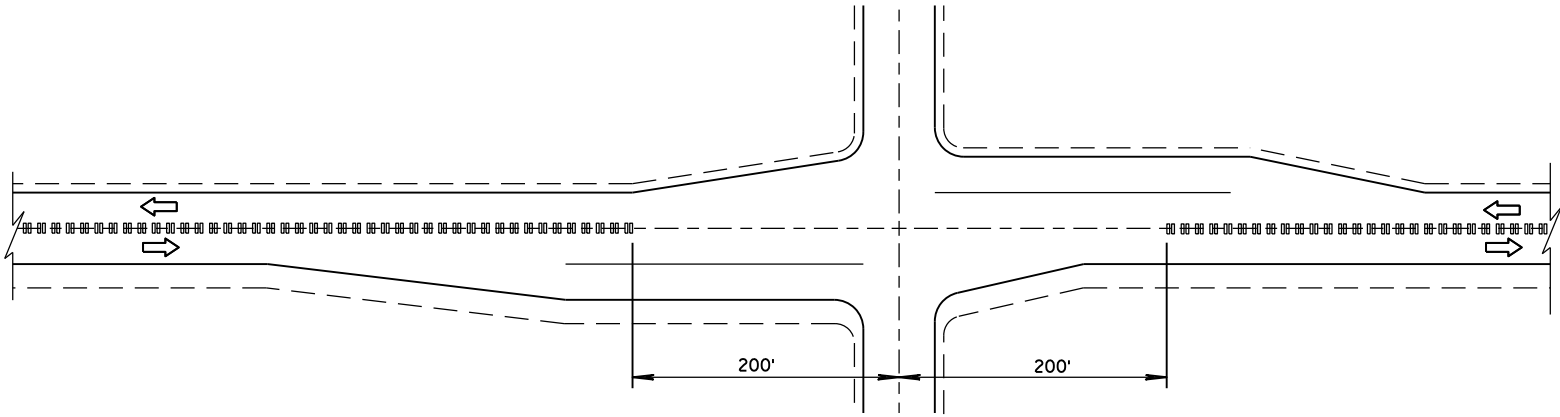
SECTION B-B
CROWNED ROADWAY



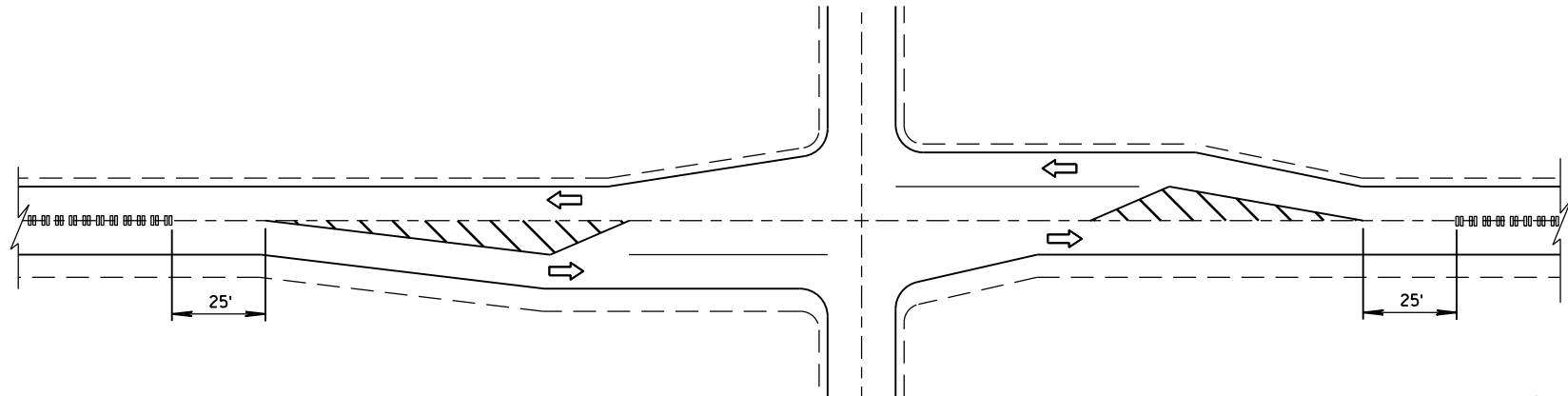
SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

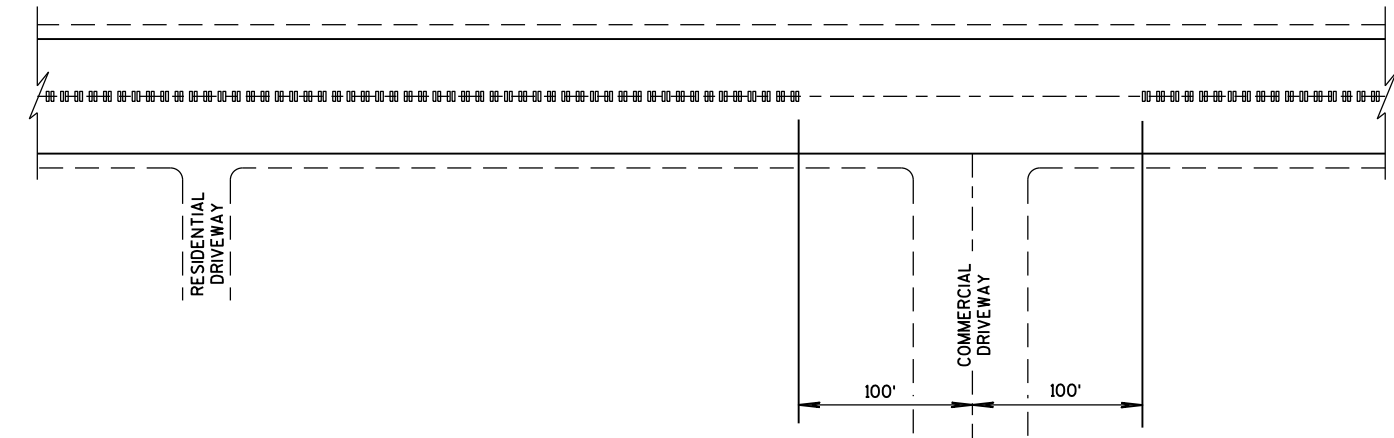
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CENTER LINE GROOVES AT INTERSECTIONS

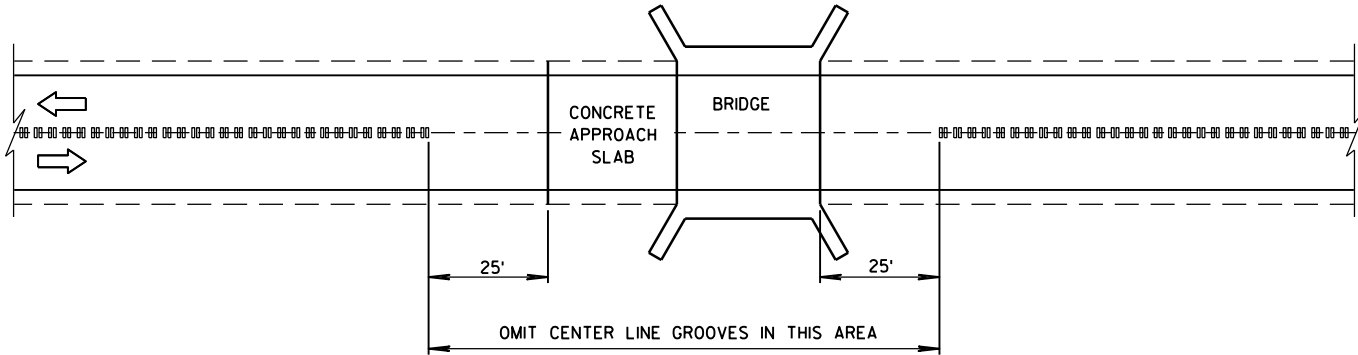


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

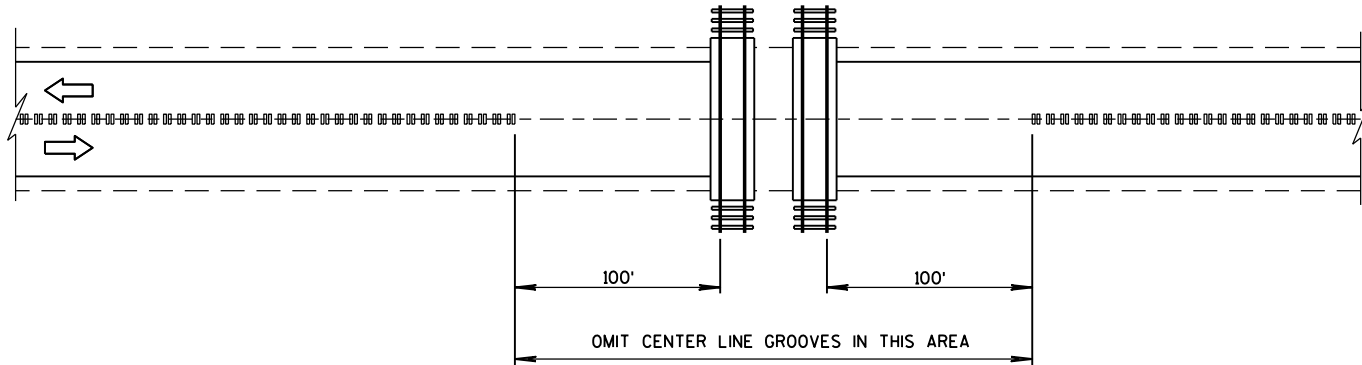


CENTER LINE GROOVES AT DRIVEWAYS^①

① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.

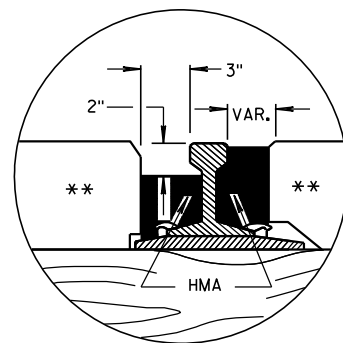
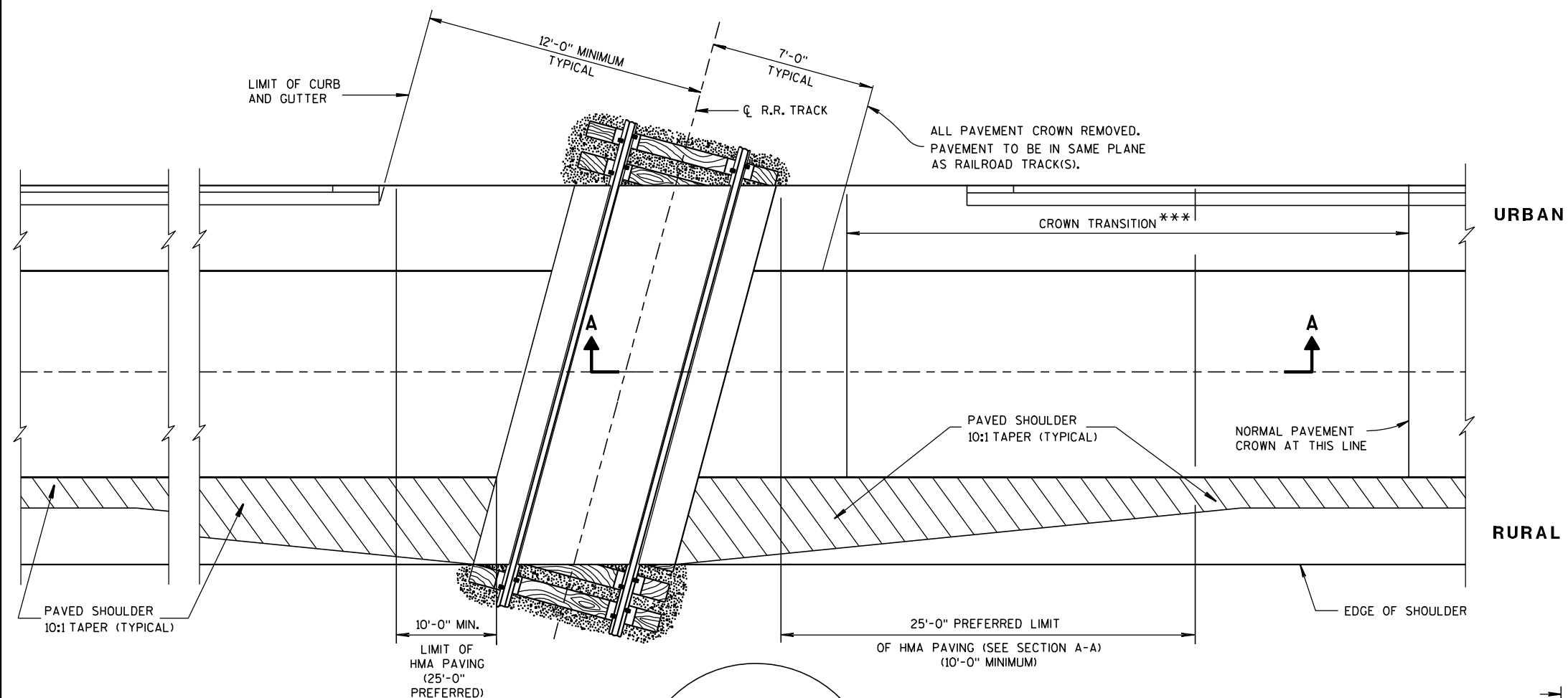


CENTER LINE GROOVES AT BRIDGES

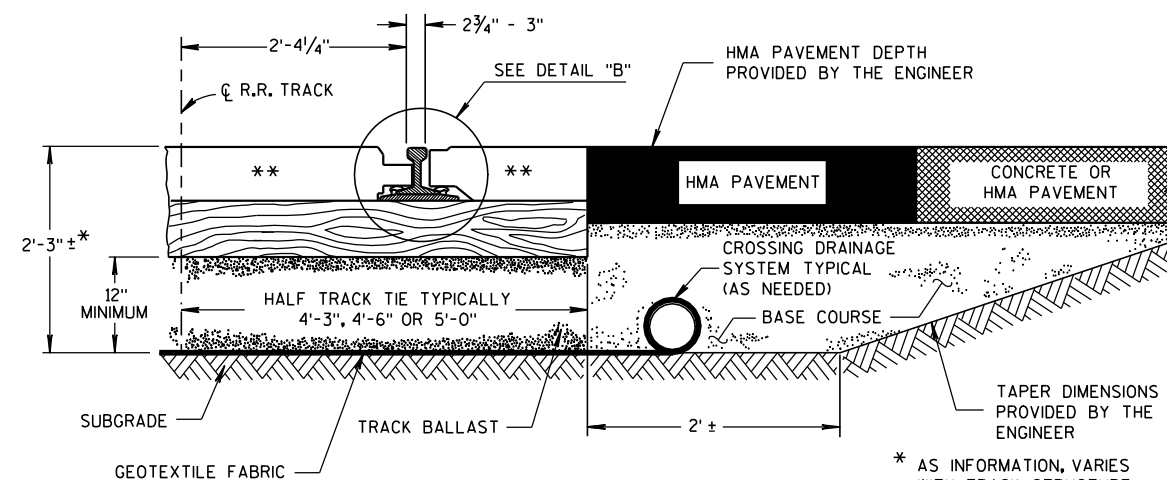


CENTER LINE GROOVES AT RAILROADS

2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/15/2013 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	

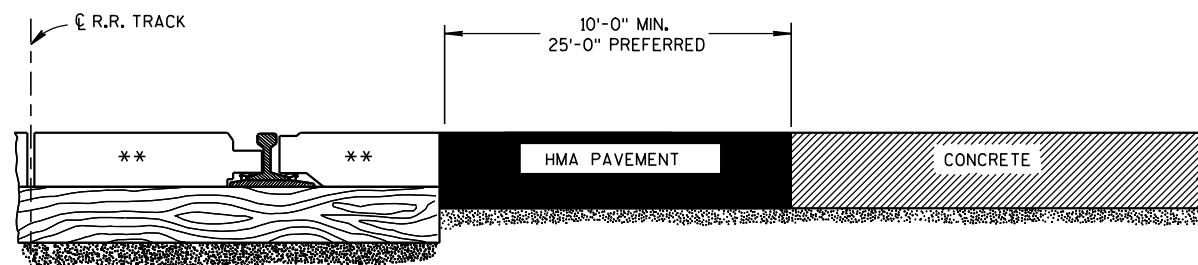


DETAIL B
HMA FLANGEWAY
AND FIELD FILLERS



TYPICAL HALF SECTION

* AS INFORMATION, VARIES WITH TRACK STRUCTURE AND SOIL CONDITIONS



SECTION A-A
CONCRETE PAVEMENT APPROACH



SECTION A-A
HMA PAVEMENT APPROACH

EXAMPLES OF PAVEMENT APPROACHES

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.

TIMBER, CONCRETE OR RUBBER CROSSING SURFACE MATERIAL, RAILS, TIES, BALLAST, GEOTEXTILE FABRIC AND CROSSING DRAINAGE SYSTEM BY OTHERS UNLESS OTHERWISE PROVIDED.

HMA PAVEMENT APPROACHES AND HMA PAVEMENT CROSSING SURFACES TO BE PLACED BY CONTRACTOR UNLESS OTHERWISE PROVIDED.

HMA FLANGEWAY AND FIELD FILLERS TO BE PLACED AND THOROUGHLY HAND COMPACTED BY THE CONTRACTOR WHEN NOT PROVIDED BY OTHERS. SEE DETAIL B. HMA FILLERS NOT REQUIRED WHEN RUBBER FILLERS ARE PROVIDED.

HMA PAVEMENT SHALL BE ROLLED PARALLEL TO THE TRACK.

** CROSSING SURFACE MAY BE TIMBER, RUBBER, CONCRETE, HMA PAVEMENT OR A COMBINATION OF SUCH MATERIALS.

*** CROWN TRANSITION LENGTH SHOWN ELSEWHERE IN THE PLAN.

PAVEMENT DETAILS FOR RAILROAD APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

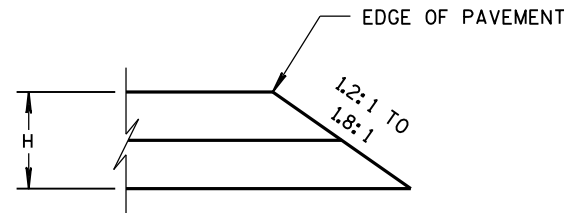
APPROVED

8-28-09

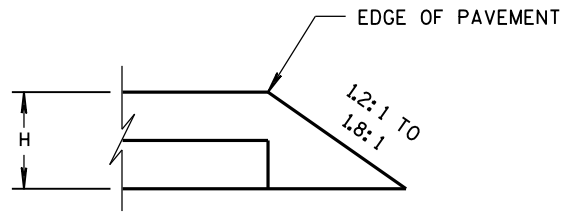
DATE

FHWA

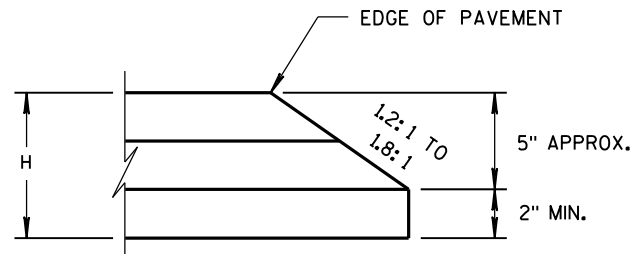
/S/ Ronald E. Adams
CHIEF, RAILROADS & HARBORS SECTION



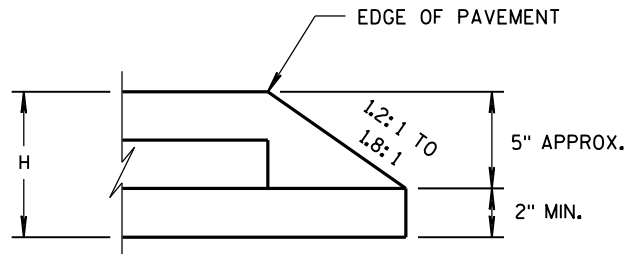
CONSTRUCTED WITH FINAL TWO LAYERS
FOR H 5" OR LESS



CONSTRUCTED WITH FINAL LAYER
FOR H 5" OR LESS

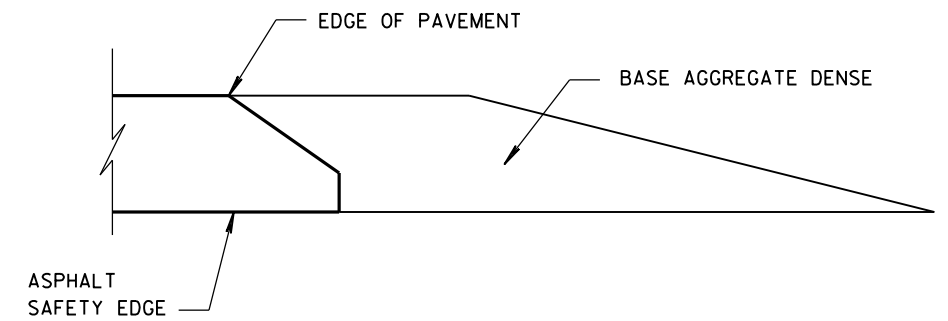


CONSTRUCTED WITH FINAL TWO LAYERS
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER
FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE_{SM}

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

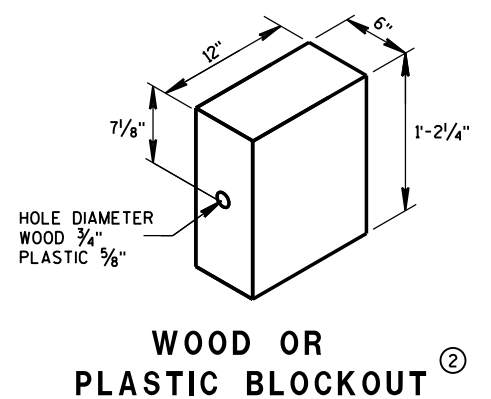
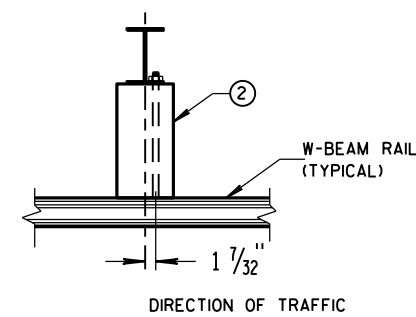
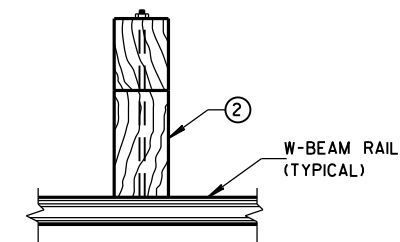
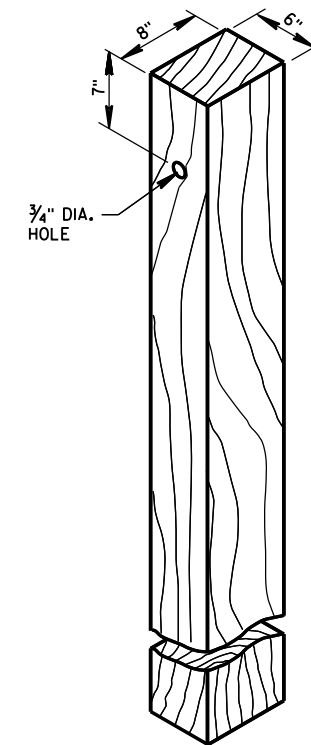
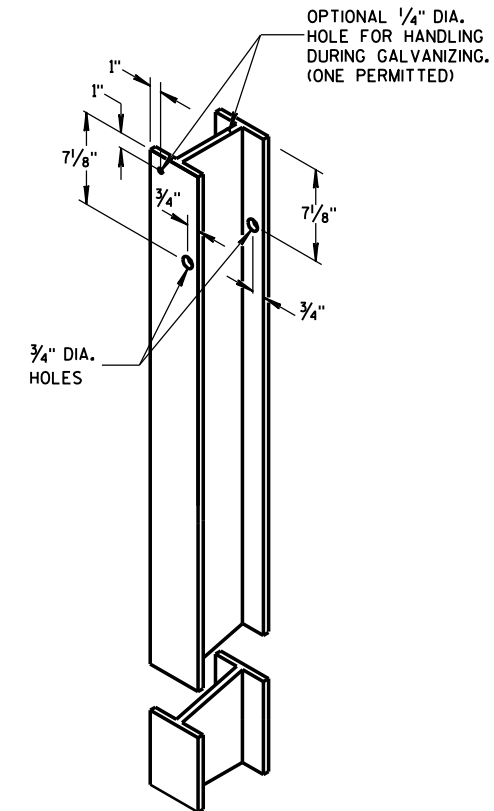
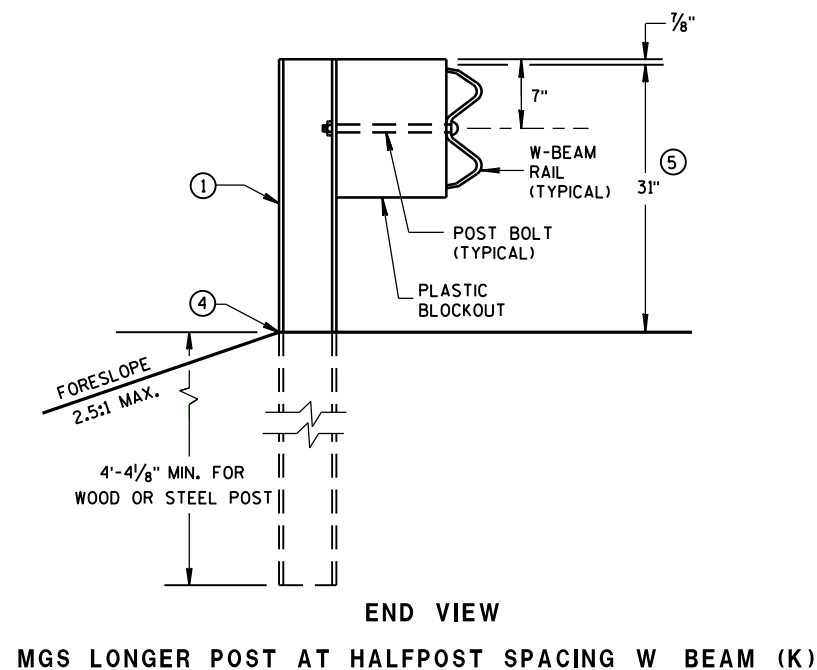
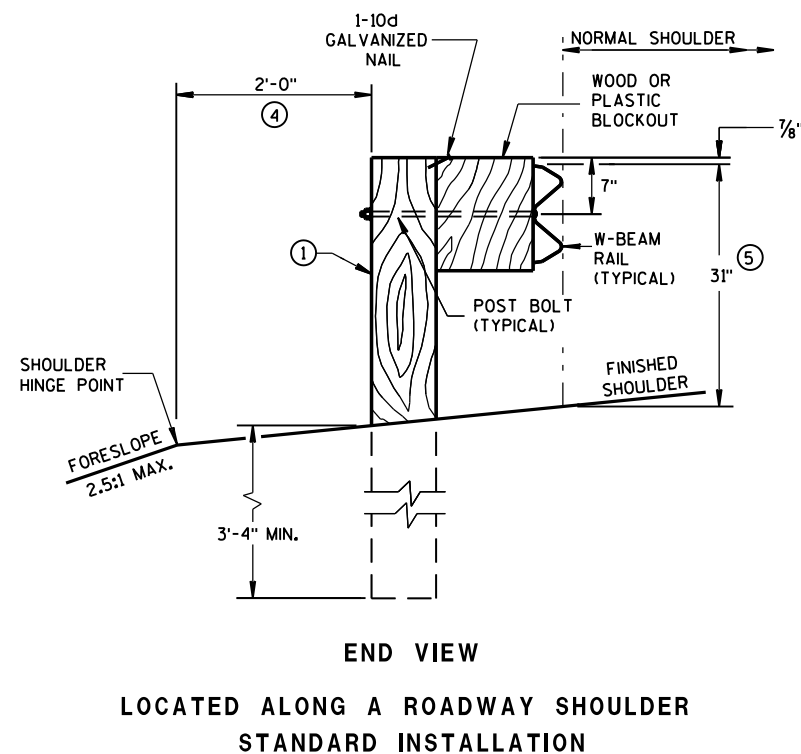
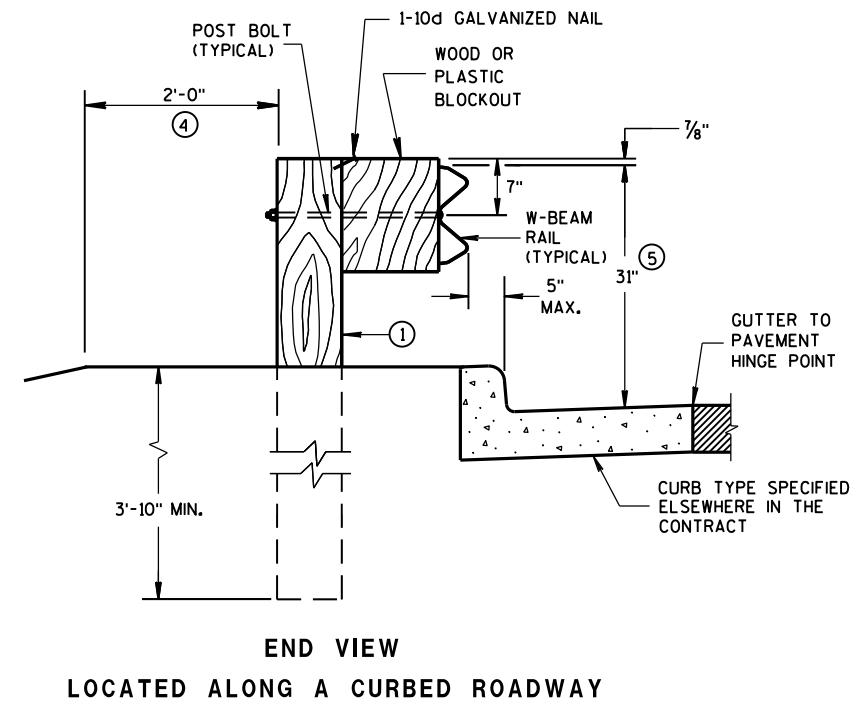
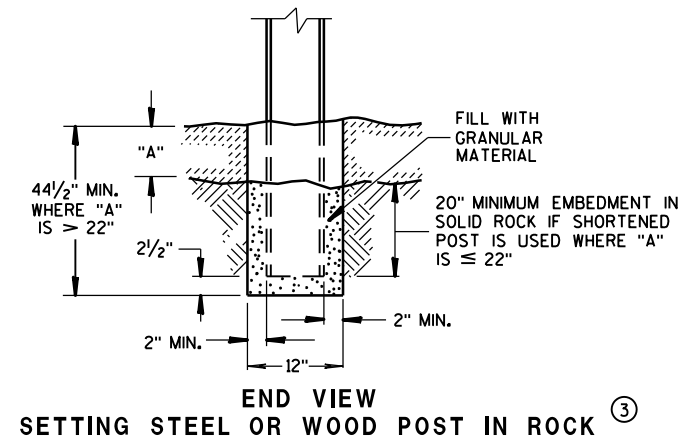
11/30/2012
DATE

FHWA

/s/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

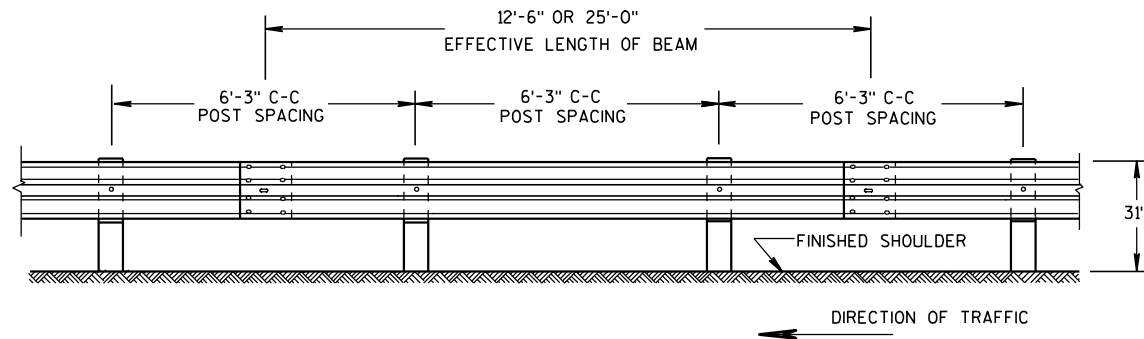
S.D.D. 14 B 42-2a

- S.D.D. 14 B 42-2a**



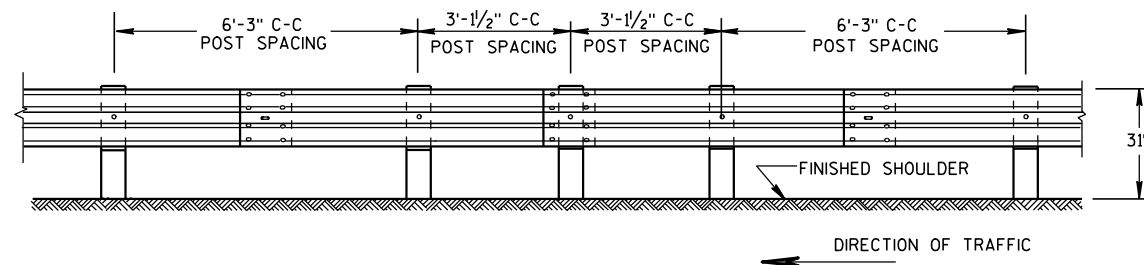
**MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



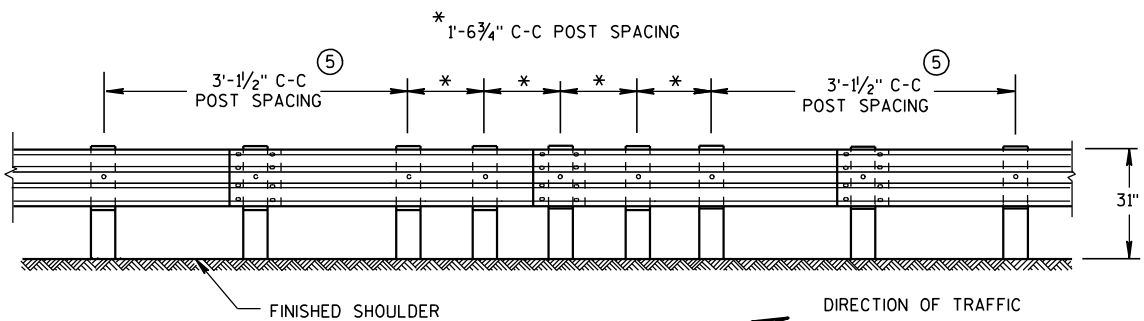
FRONT VIEW

POST SPACING STANDARD INSTALLATION



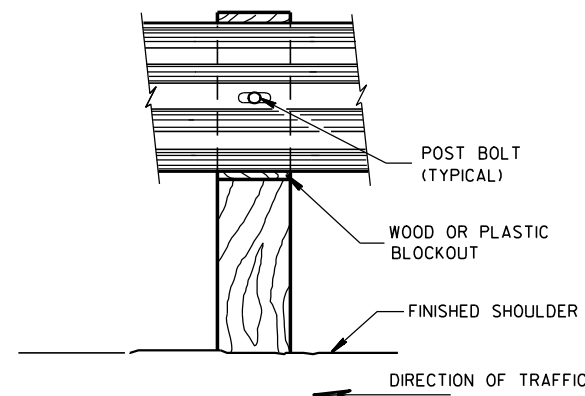
FRONT VIEW

HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

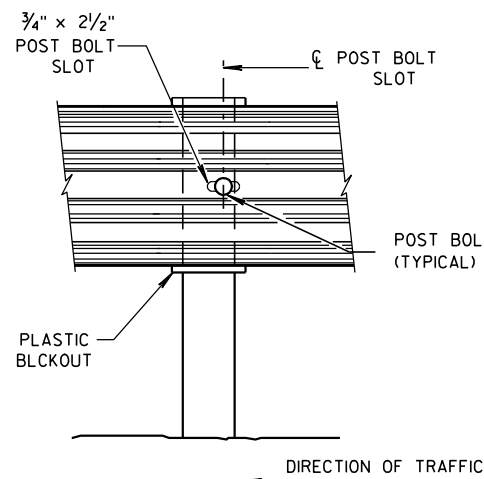


FRONT VIEW

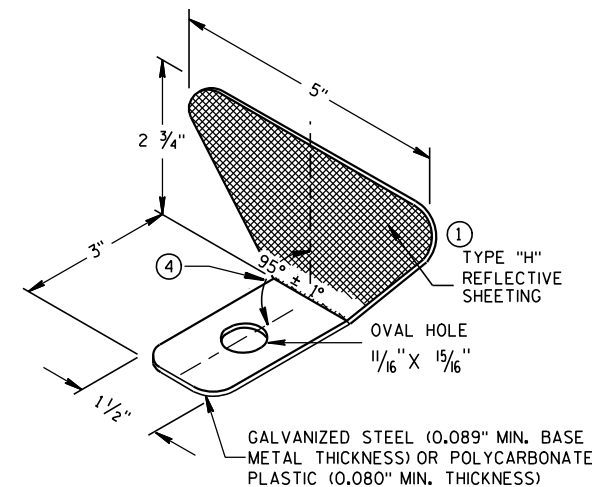
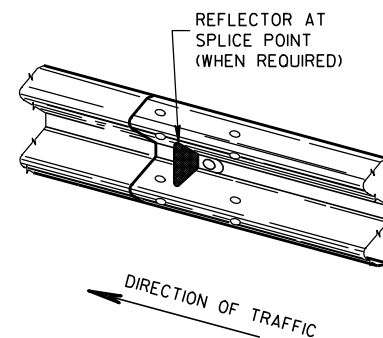
QUARTER POST SPACING (QS)



FRONT VIEW AT WOOD POST



FRONT VIEW AT STEEL POST



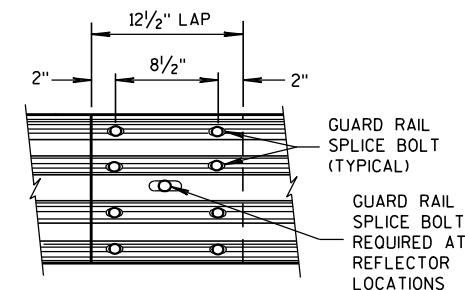
ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

GENERAL NOTES

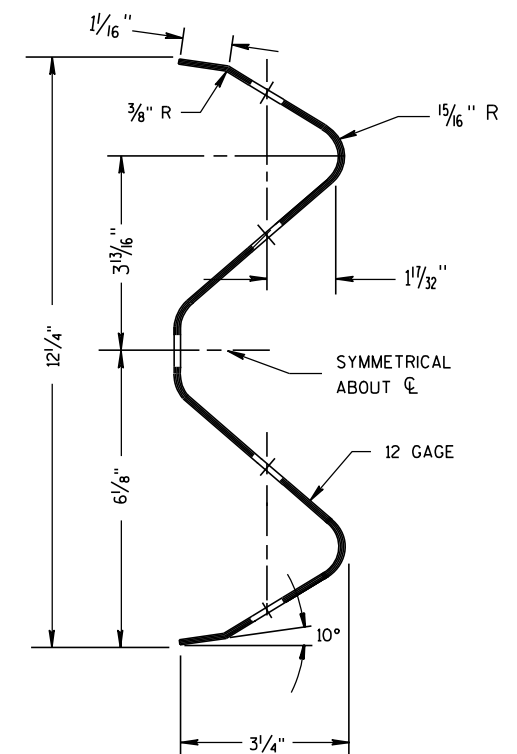
- ① PROVIDE TYPE "H" SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH TYPE "H" YELLOW REFLECTIVE SHEETING.
- ② DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.
- ③ REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
- ④ PROVIDE AN ANGLE OF BEND OF $90^\circ \pm 1^\circ$ FOR TWO-SIDED REFLECTORS.
- ⑤ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A $\frac{5}{8}$ " DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES $\frac{5}{8}$ " DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND $\frac{5}{8}$ " DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A $\frac{5}{8}$ " DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES $\frac{5}{8}$ " DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



FRONT VIEW
MID-SPAN BEAM SPLICE



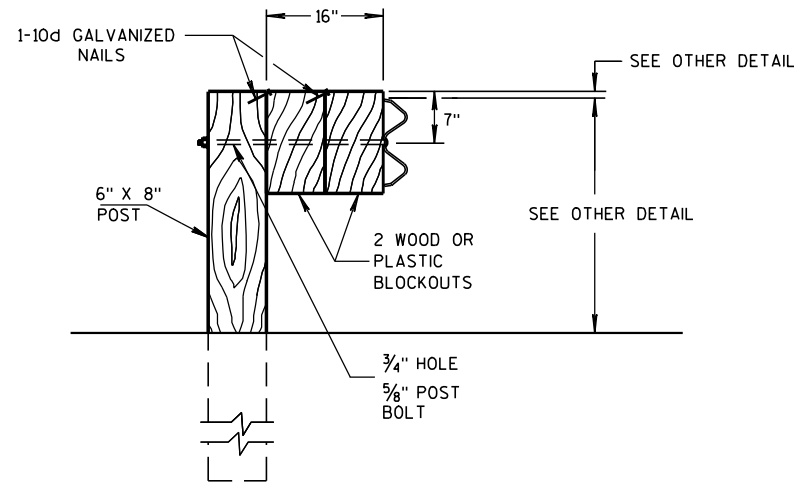
SECTION THRU W-BEAM RAIL

REFLECTOR SPACING

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 ③	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2 ④	3
	> 200'	100' C-C	2	

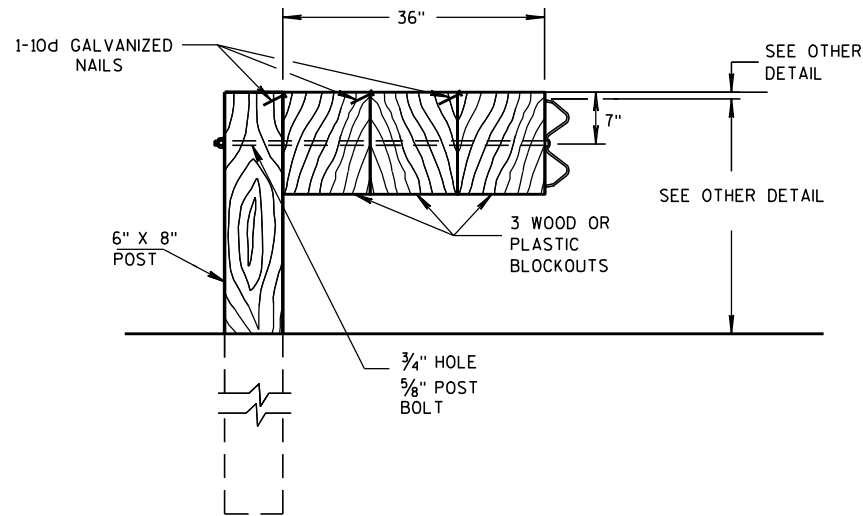
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



DETAIL FOR 16" BLOCKOUT DEPTH

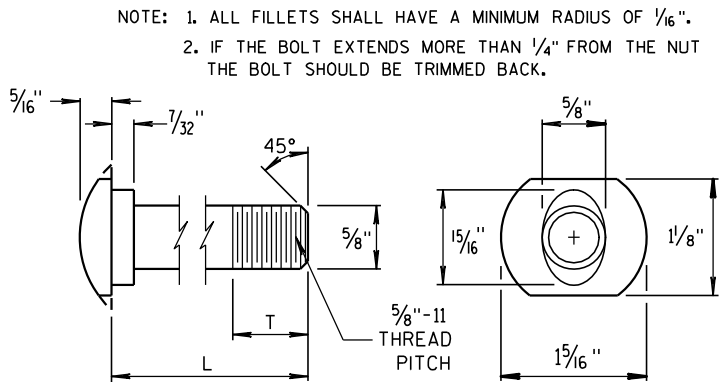
IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



DETAIL FOR 36" BLOCKOUT DEPTH

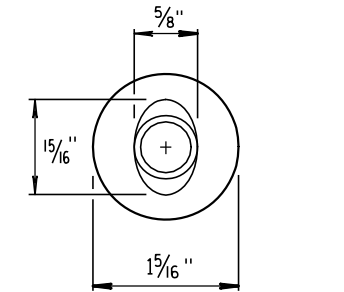
NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

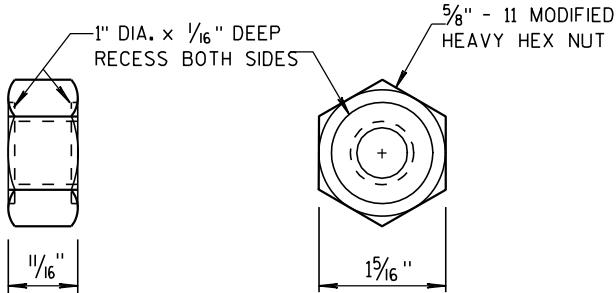


POST BOLT TABLE

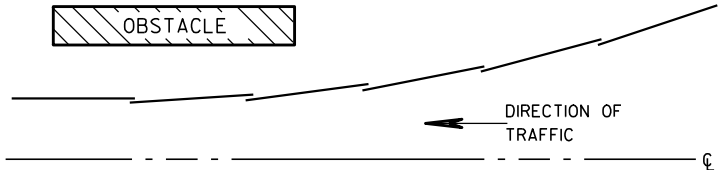
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



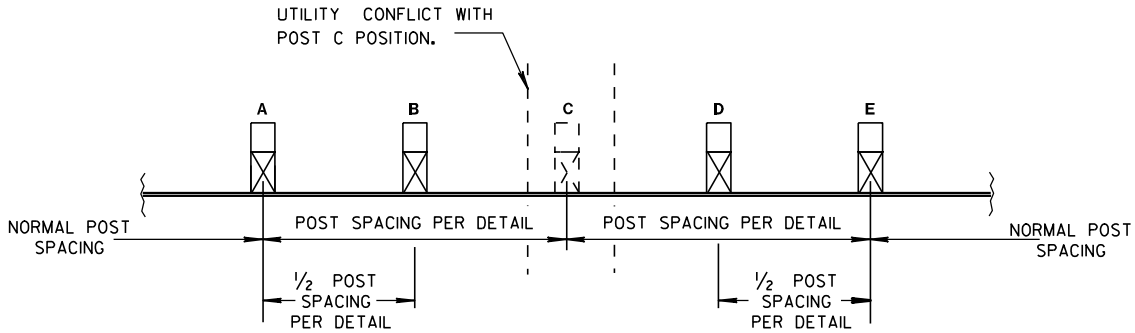
ALTERNATE BOLT HEAD



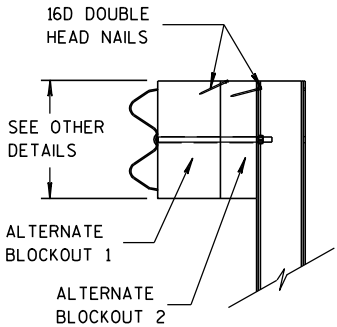
POST BOLT AND RECESS NUT



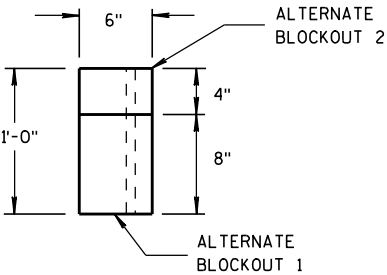
PLAN VIEW
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS
UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD
BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

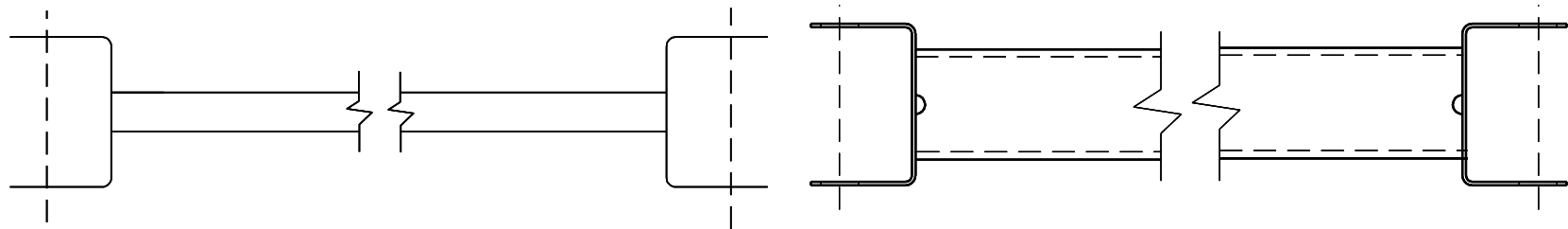
APPROVED
11/15/2011 DATE /S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA

6

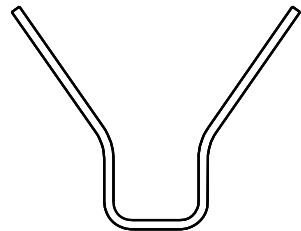
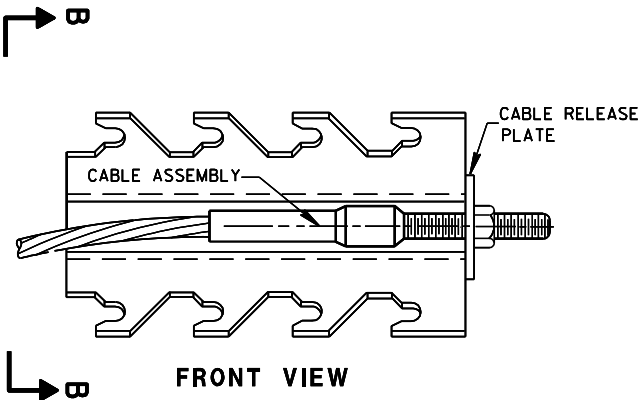
- S.D.D. 14 B 44-1a

THE CENTER OF THE UPPER 3 1/2" DIAMETER HOLE ON POST NUMBER 3
THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE (+ 3/4")

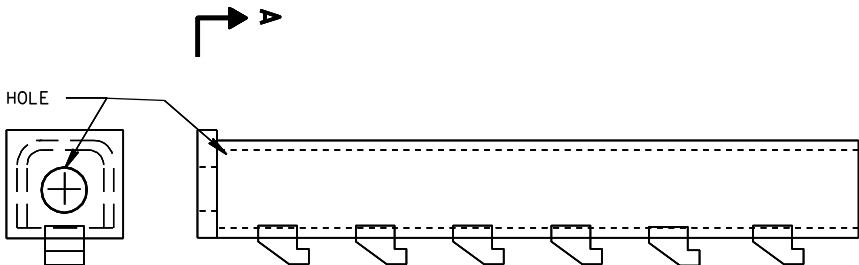




9 H
GENERIC GROUND STRUT



SECTION B-B



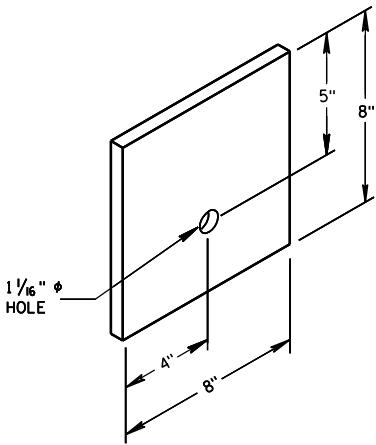
SECTION A-A

PLAN VIEW

8 H
GENERIC ANCHOR CABLE BOX

BILL OF MATERIALS

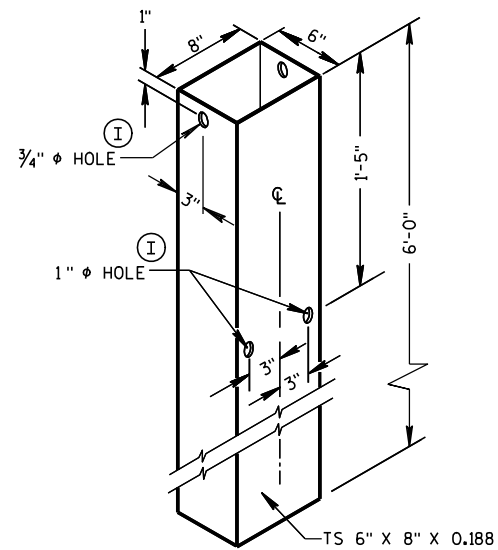
PART NO.	DESCRIPTION
MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.	
①	WOOD BREAKAWAY POST
②	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL, MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	END SECTION EAT
⑬	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE H (ONLY THE SHEETING IS SUPPLIED BY THE MANUFACTURER)
⑭	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



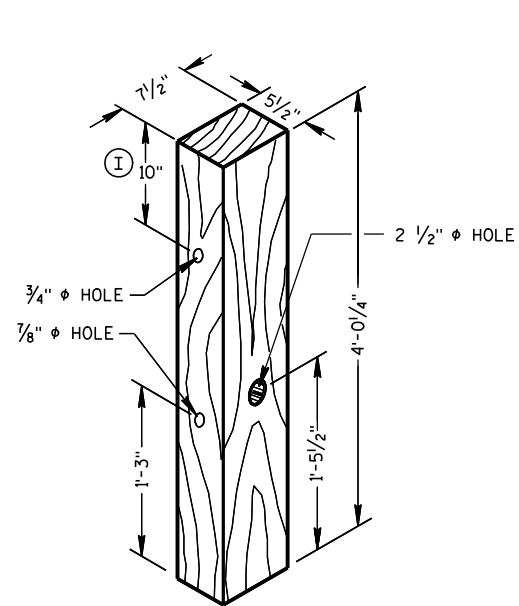
6
BEARING PLATE

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

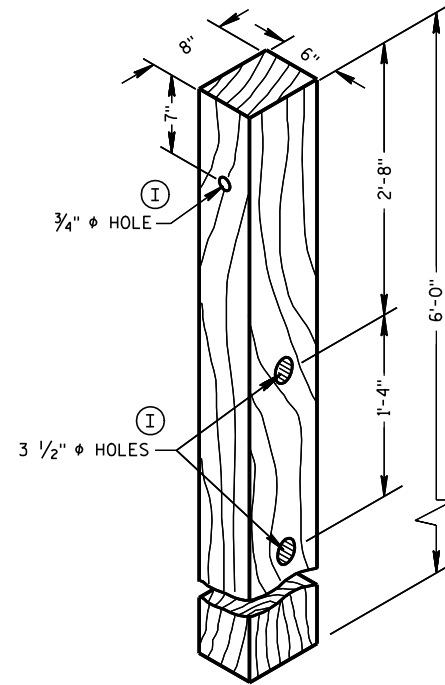
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



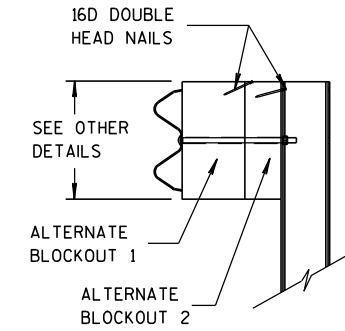
FOUNDATION TUBE ②



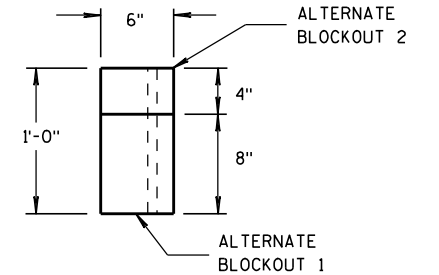
WOOD BREAKAWAY POST ①



WOOD CRT POST ③

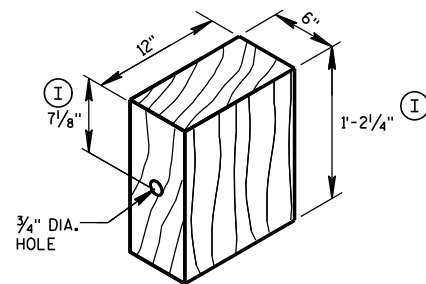


SIDE VIEW



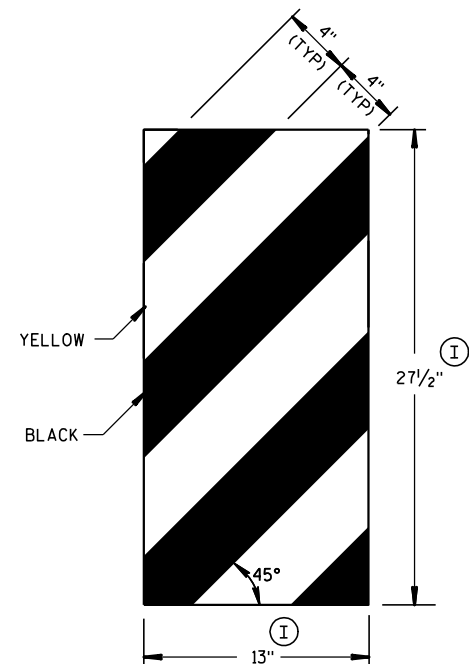
TOP VIEW

ALTERNATE WOOD
BLOCKOUT DETAIL

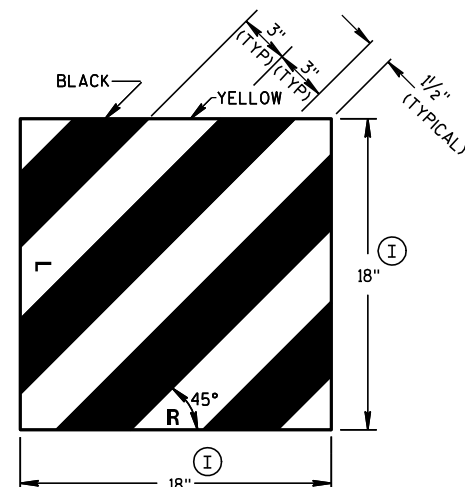


WOOD BLOCKOUT ④

YELLOW REFLECTIVE TAPE
3" X 9" TYPE H
REFLECTIVE SHEETING



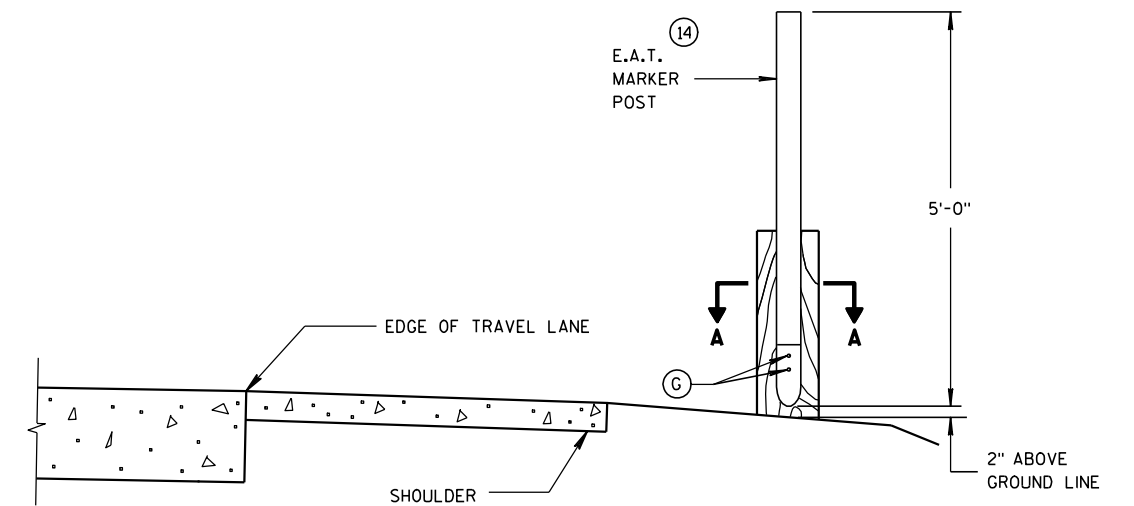
GENERIC REFLECTIVE SHEETING ⑬ ④



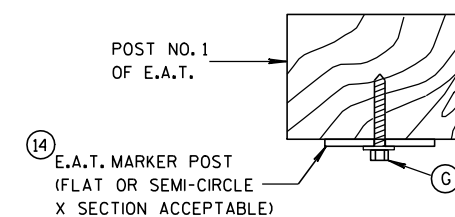
FRONT VIEW

SIDE VIEW

E.A.T. MARKER POST ⑭



TYPICAL INSTALLATION OF E.A.T.
MARKER POST BACKSIDE OF POST NO. 1
(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

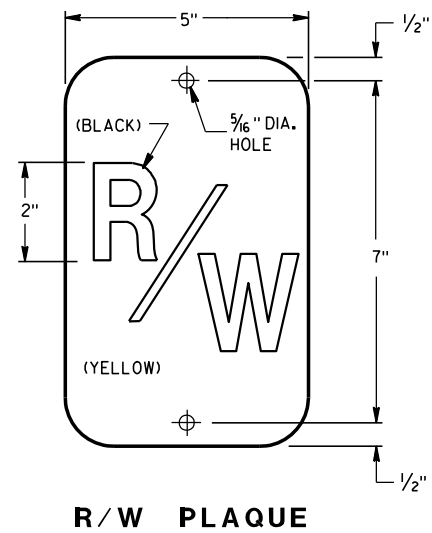
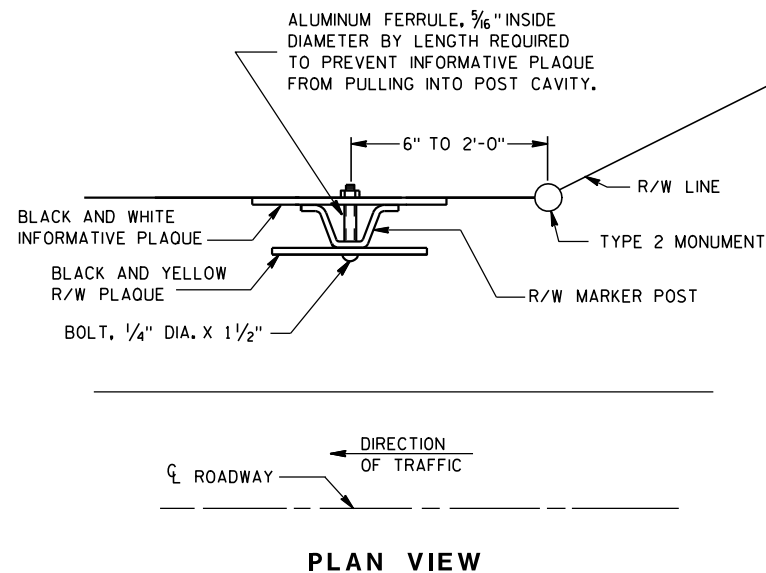
APPROVED

5/23/2011

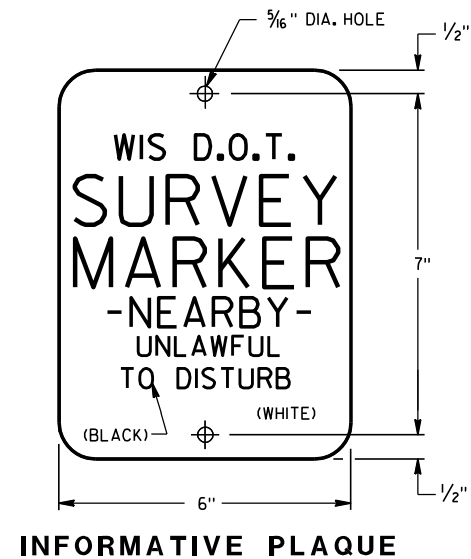
DATE

FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER



THE RIGHT-OF-WAY PLAQUE AND INFORMATIVE PLAQUE
WILL BE FURNISHED BY THE WISCONSIN DEPARTMENT
OF TRANSPORTATION.



GENERAL NOTES

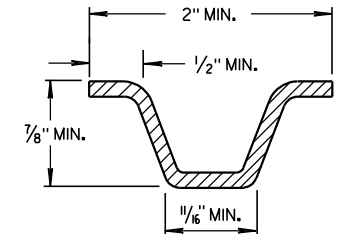
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

A STEEL MARKER POST FOR RIGHT-OF-WAY SHALL BE PLACED IN THE RIGHT-OF-WAY, WITH THE BACK OF THE POST ON THE LONGER RIGHT-OF-WAY TANGENT, 6 INCHES TO 24 INCHES FROM EACH TYPE 2 MONUMENT TO SERVE AS A GUARD POST, AND AT OTHER LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

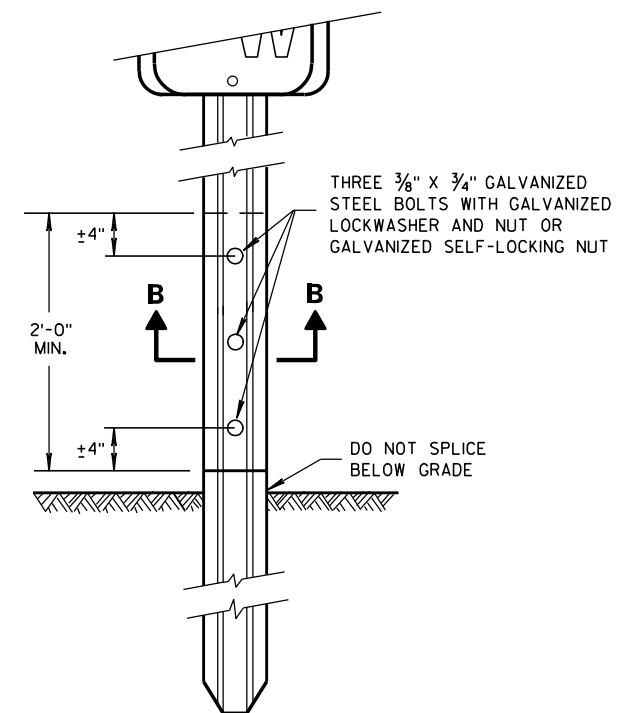
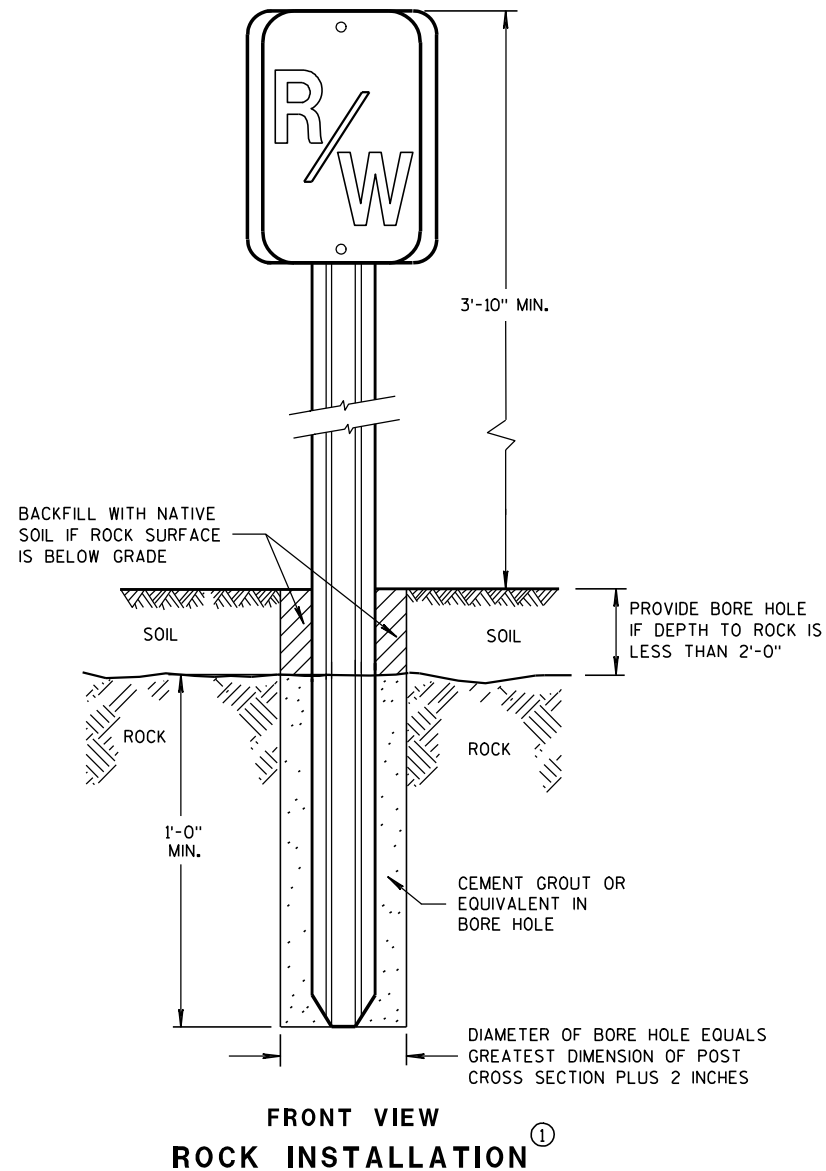
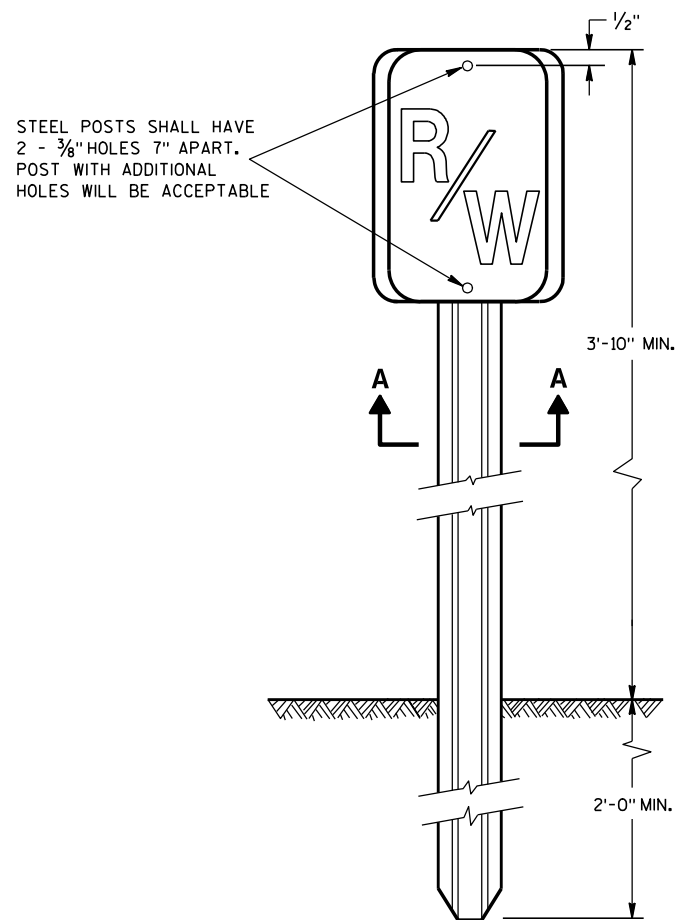
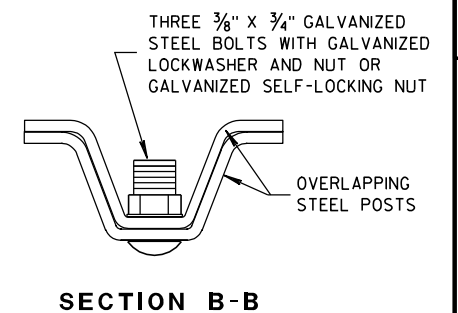
THE "R/W" PLAQUE SHALL FACE THE ROADWAY AND THE INFORMATIVE PLAQUE SHALL FACE AWAY FROM THE ROADWAY. R/W AND INFORMATIVE PLAQUES WILL BE FURNISHED BY THE DEPARTMENT OF TRANSPORTATION.

STEEL MARKER POSTS SHALL MEET THE MINIMUM MATERIAL REQUIREMENTS FOR STEEL DELINEATOR POSTS; EXCEPT POSTS PAINTED WITH FEDERAL YELLOW ENAMEL NEED NOT BE ZINC COATED.

- ① IN AREAS OF SOID ROCK, DRILL A BORE HOLE 2" GREATER THAN THE WIDEST DIMENSION OF THE POST CROSS SECTION INTO THE ROCK TO A MINIMUM DEPTH OF 12 INCHES. CUT OR SPLICE THE POST SO THAT A MINIMUM LENGTH OF 3'10" PROTRUDES ABOVE THE GROUND. BLOW OUT THE BORE HOLE IN THE ROCK USING COMPRESSED AIR.
- FILL THE BORE HOLE WITH CEMENT GROUT, OR EQUIVALENT, DEPENDING ON THE STABILITY OF THE ROCK.



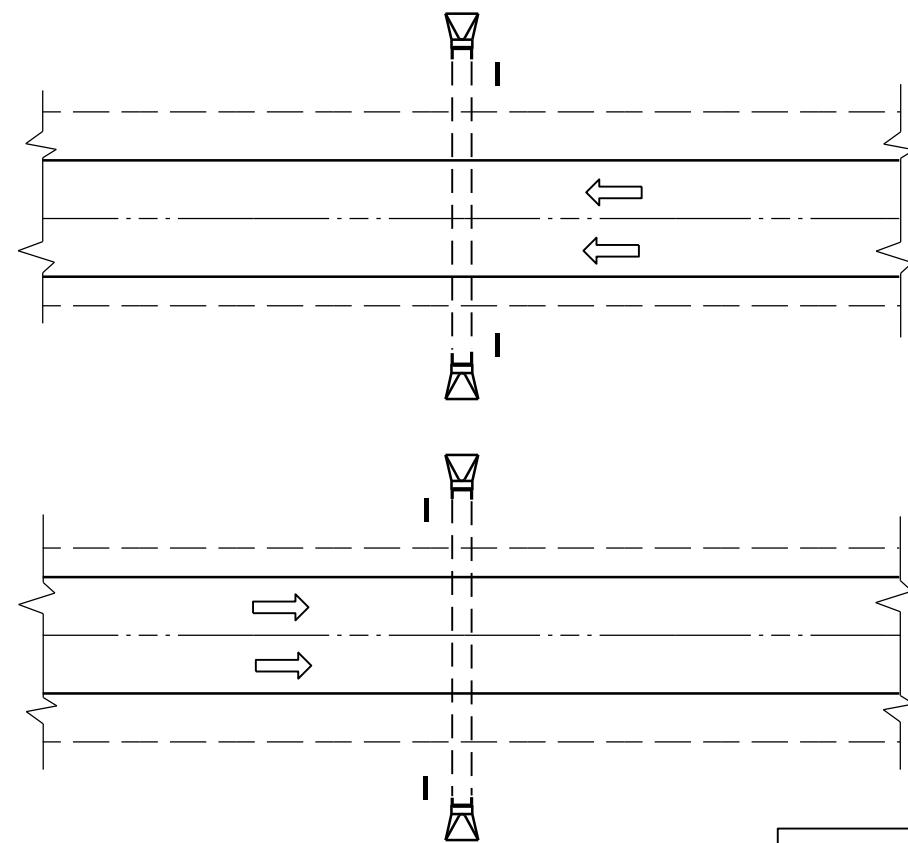
MIN. WEIGHT 1.12 LB./FT.
SECTION A-A



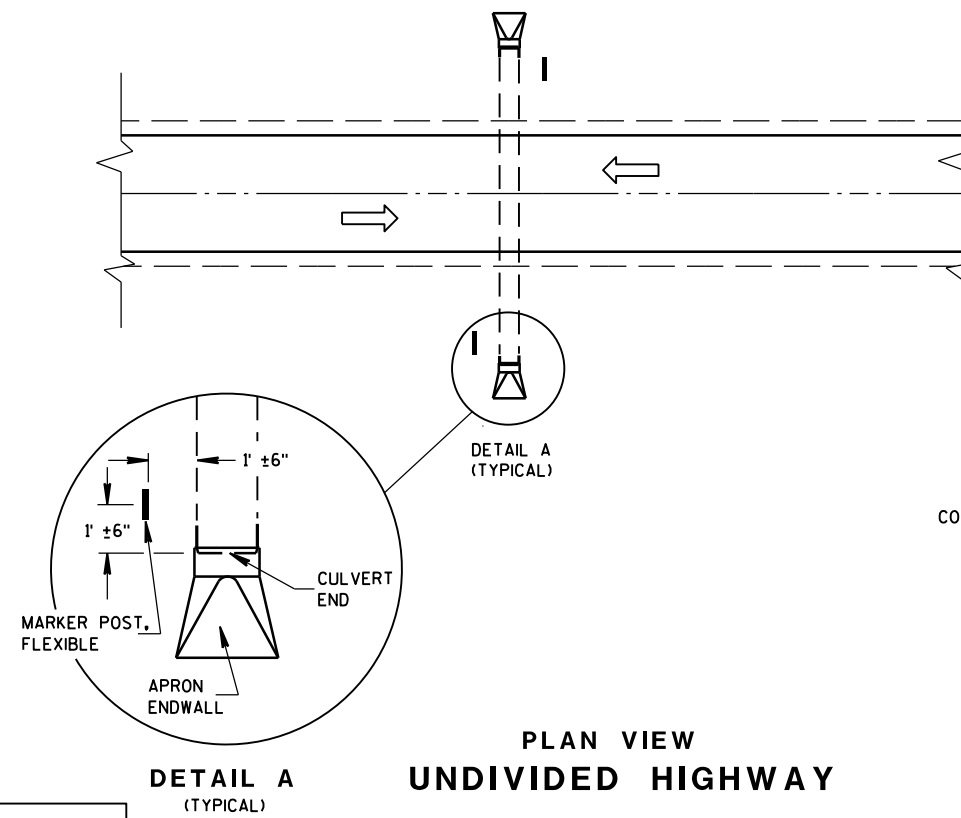
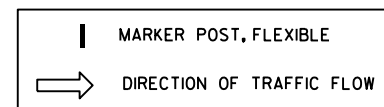
**MARKER POST
FOR RIGHT-OF-WAY**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/27/09 /S/ Ray Kumapayi
DATE CHIEF SURVEYING AND MAPPING ENGINEER
FHWA



PLAN VIEW
DIVIDED HIGHWAY

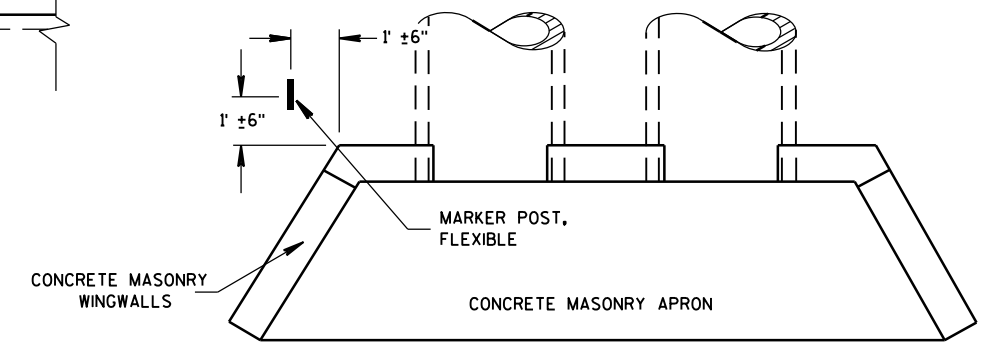


PLAN VIEW
UNDIVIDED HIGHWAY

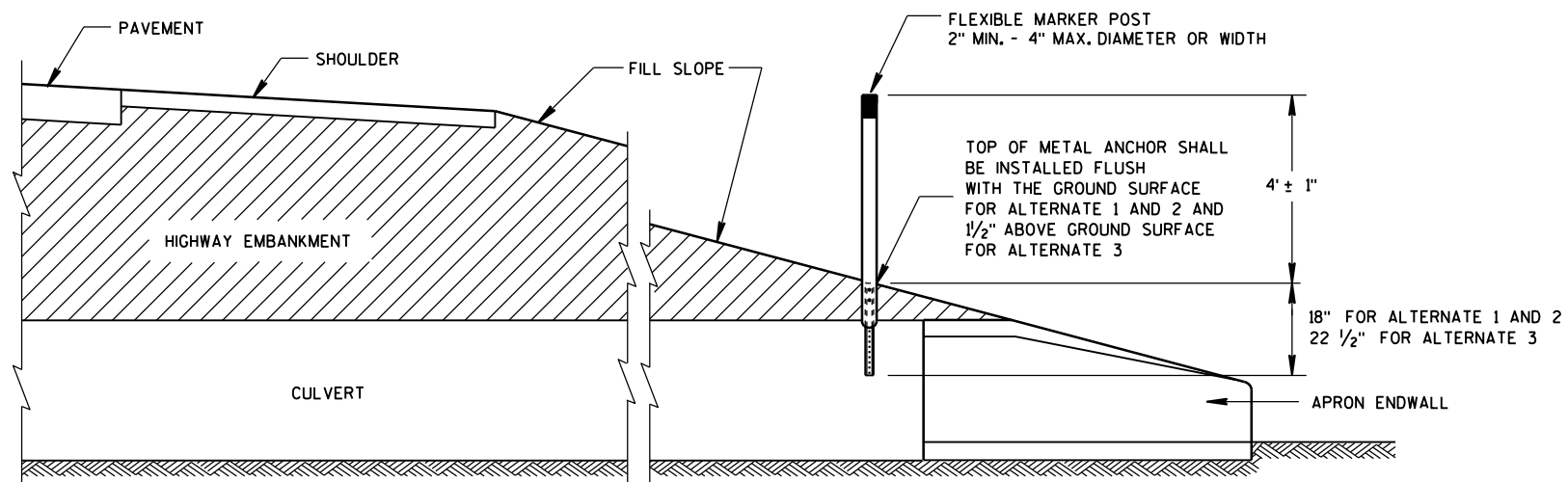
FLEXIBLE MARKER POST LOCATION

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.



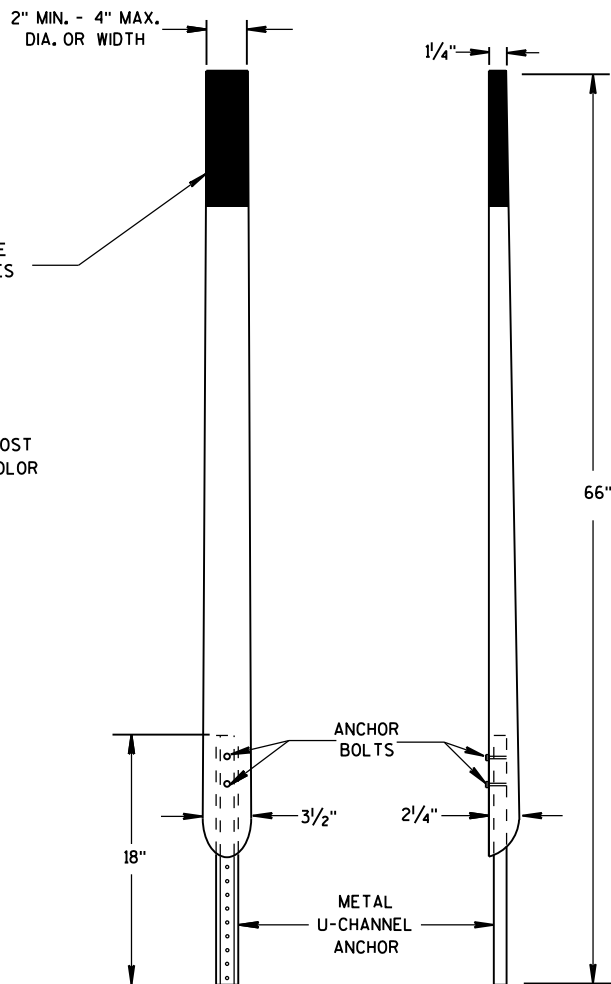
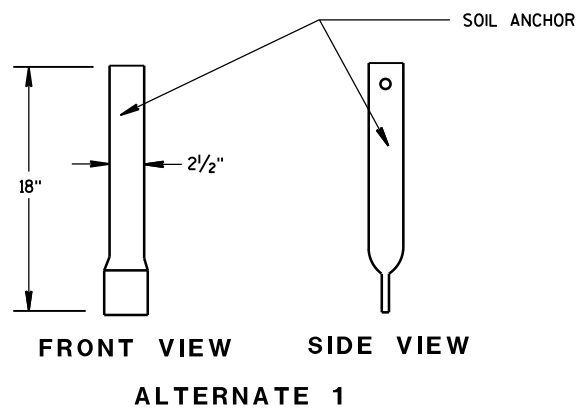
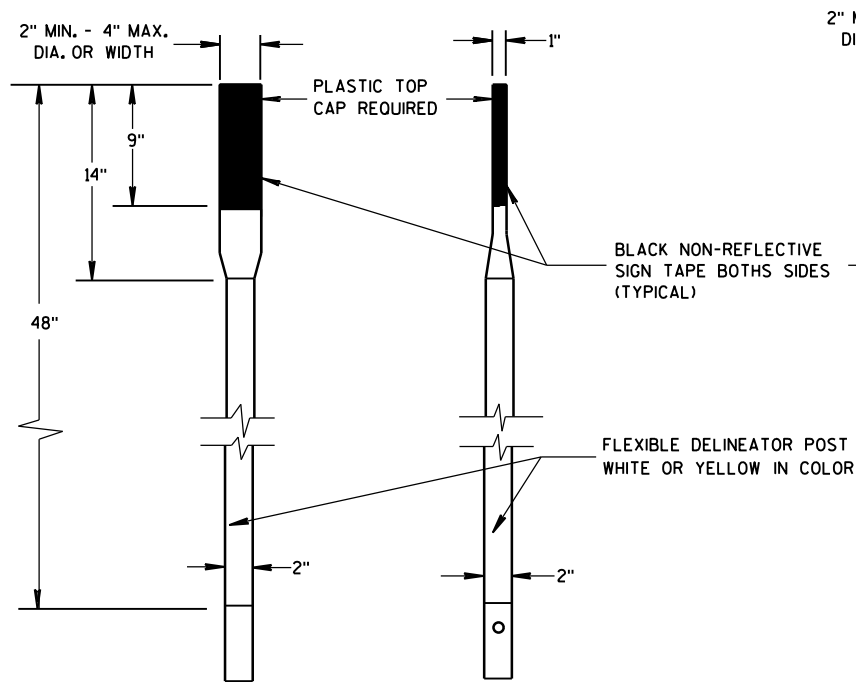
PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH



CROSS SECTION
FLEXIBLE MARKER POST

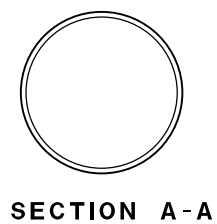
FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

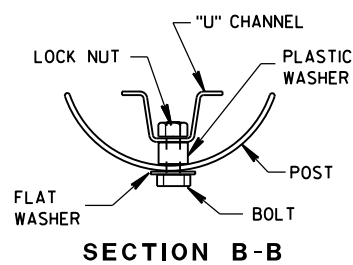
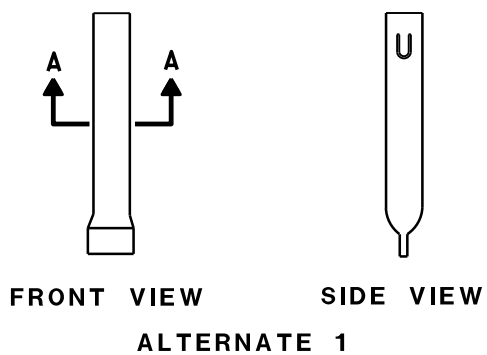


FRONT VIEW SIDE VIEW
ALTERNATE 2

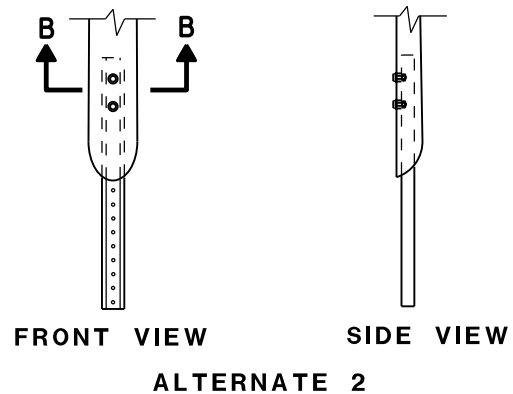
FLEXIBLE MARKER POSTS



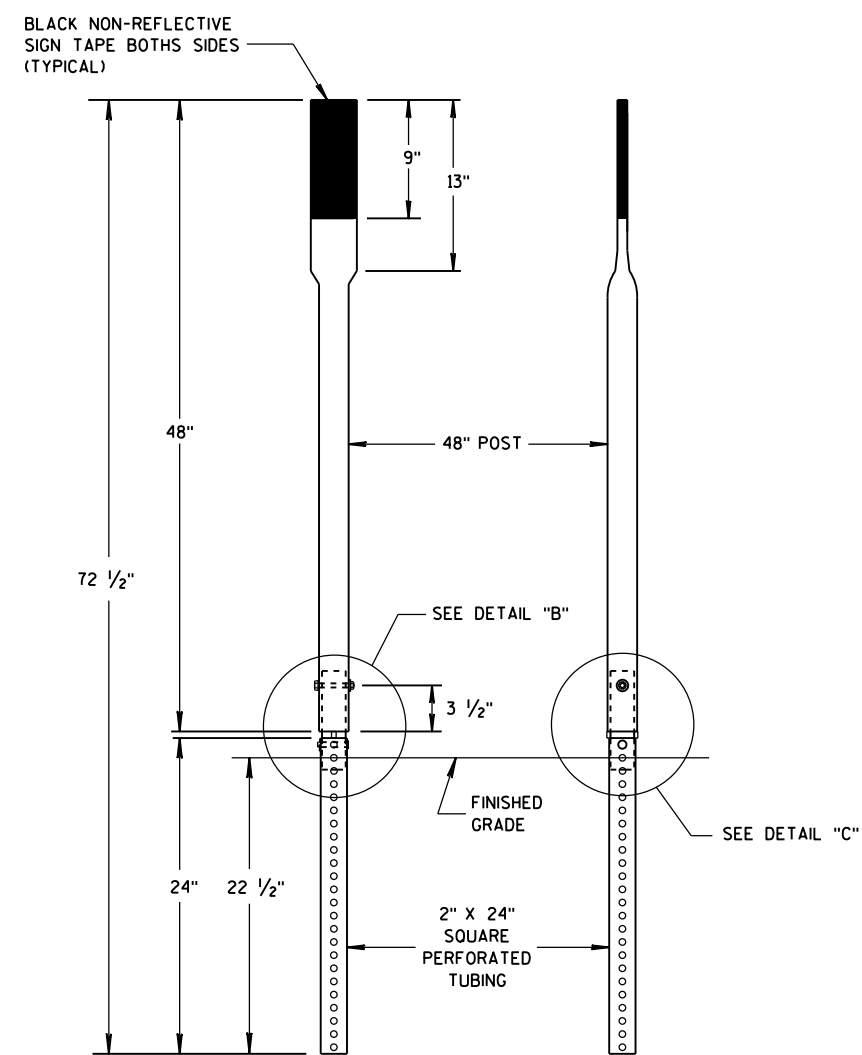
SECTION A-A



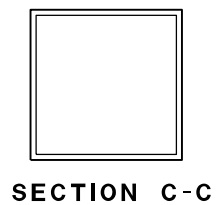
SECTION B-B



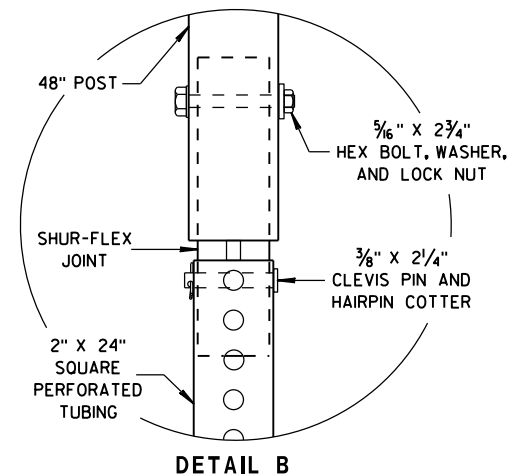
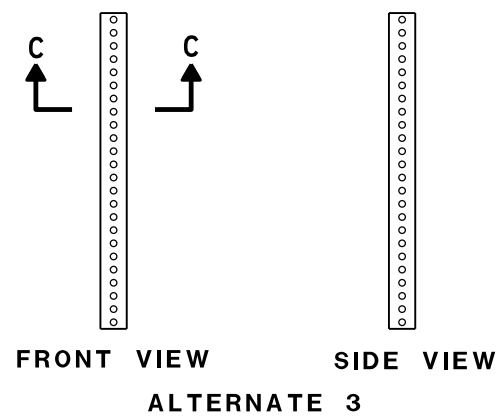
FLEXIBLE MARKER POST ANCHORS



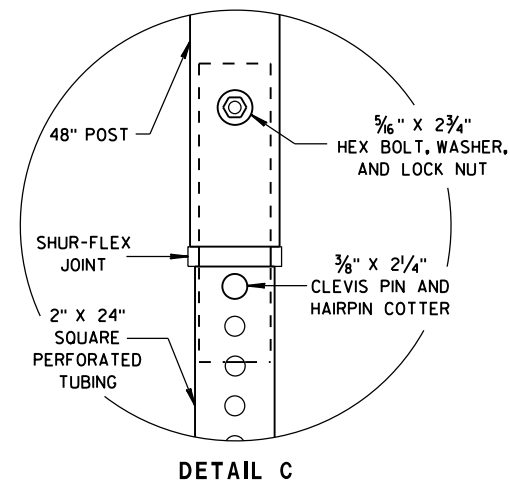
FRONT VIEW SIDE VIEW
ALTERNATE 3



SECTION C-C



DETAIL B



DETAIL C

FLEXIBLE MARKER POST FOR CULVERT END

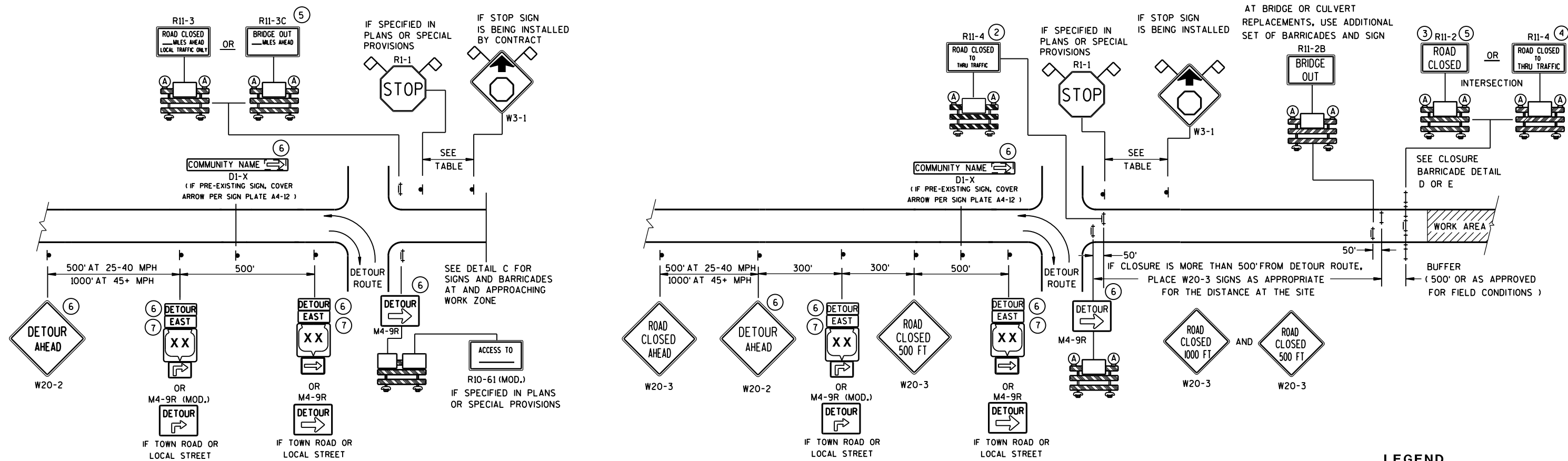
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/1/2012
DATE

FHWA

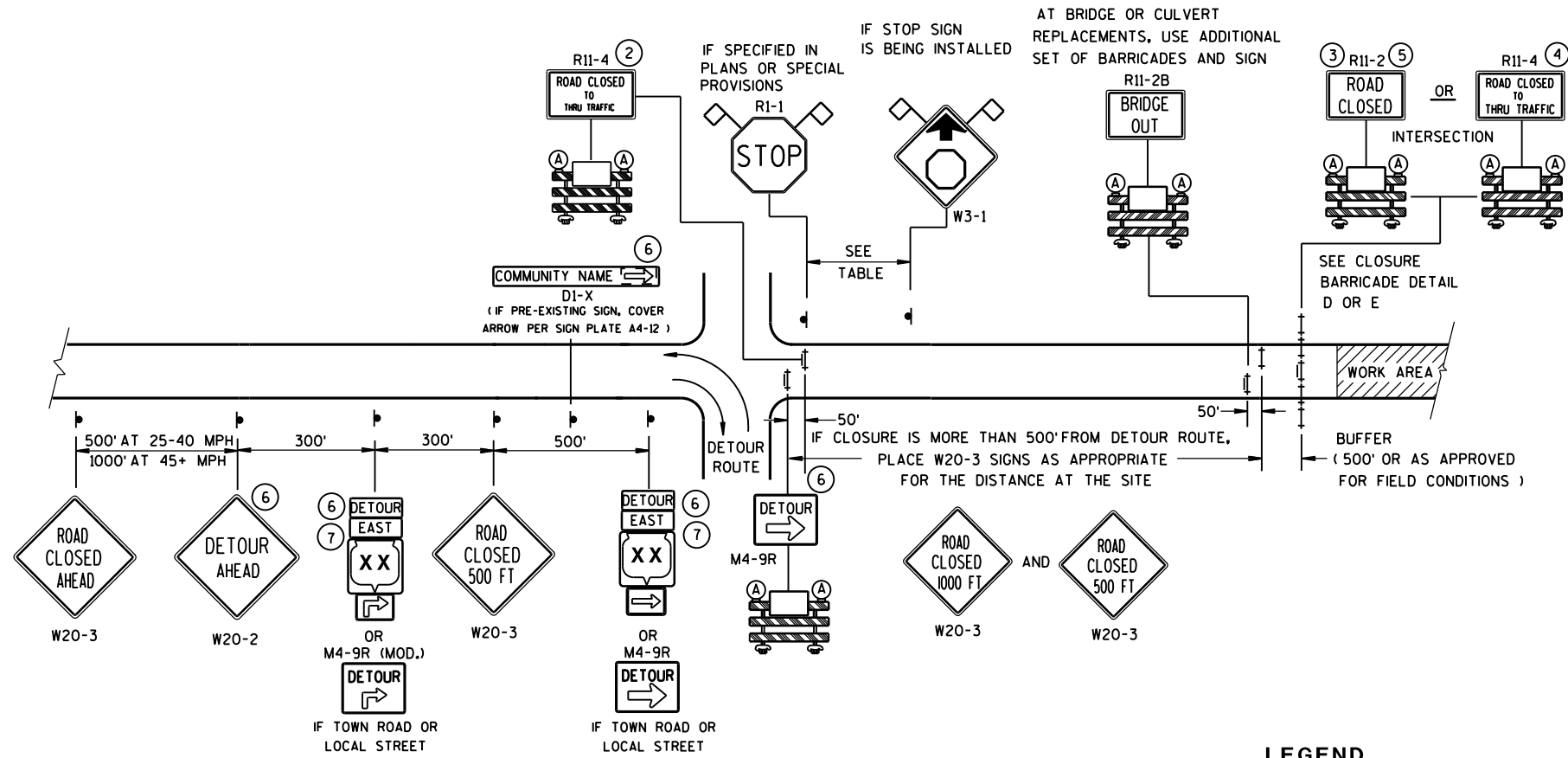
/S/ Travis Feltes
STATE TRAFFIC ENGINEER OF DESIGN



DETAIL A

MAINLINE CLOSURE WITH POSTED DETOUR

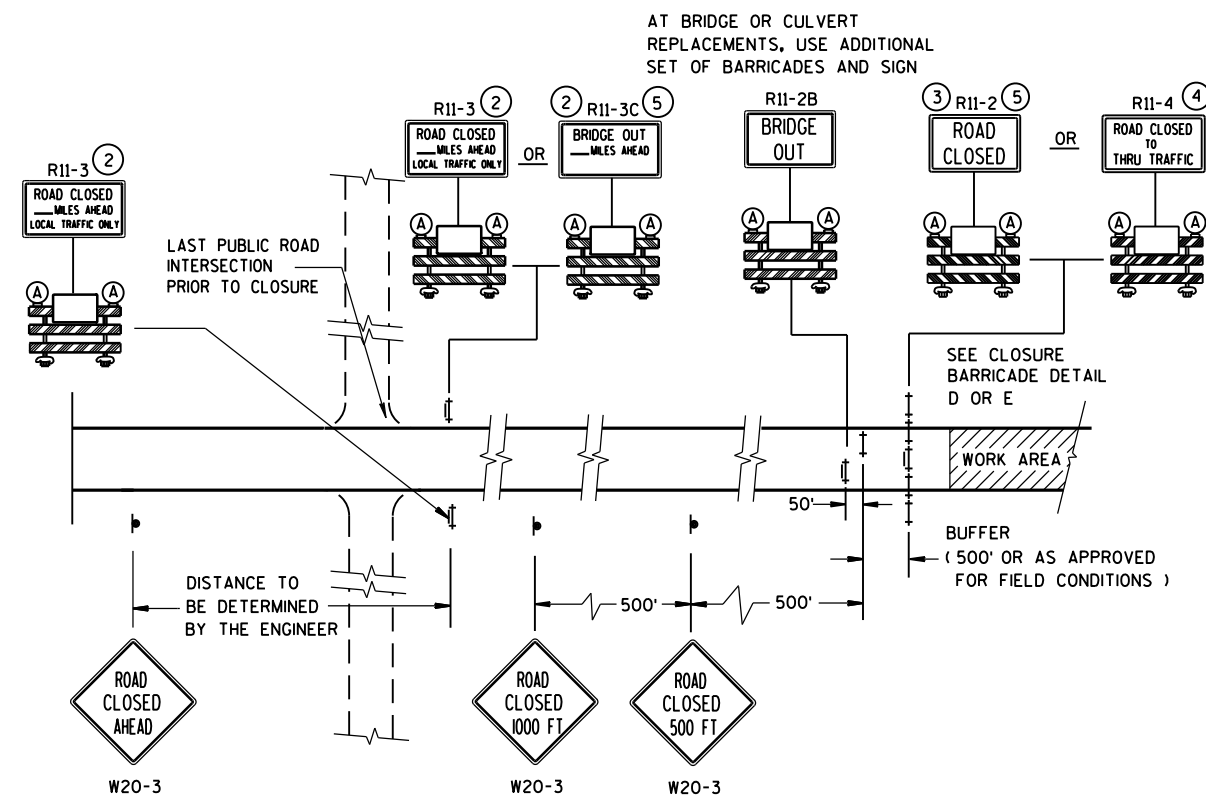
WORK ZONE GREATER THAN 1/2 MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B

MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN 1/2 MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



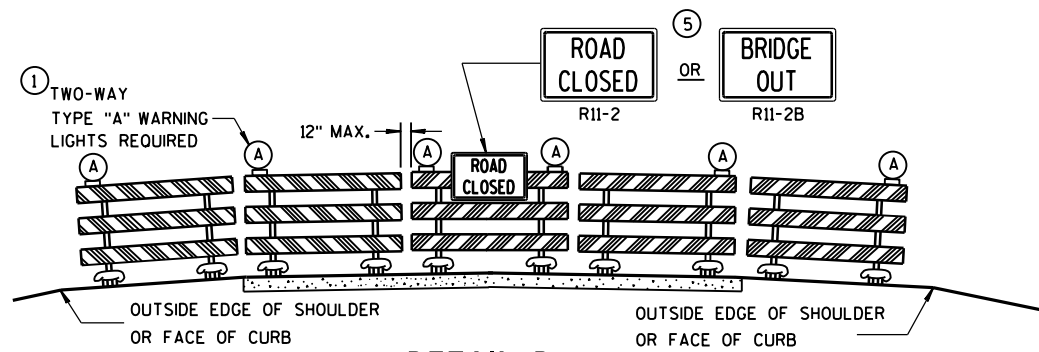
DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

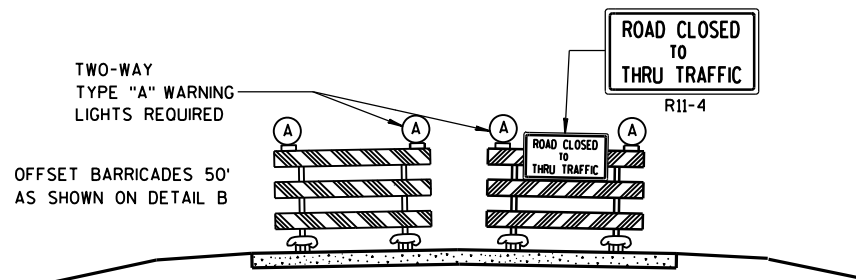
- ## LEGEND
-  SIGN ON PERMANENT SUPPORT
-  TYPE III BARRICADE
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  WORK AREA
-  M4-8
M3-X
-  OR  OR 
M1-4 M1-5A M1-6
-  OR 
M05-1 M06-1
-  FLAGS, 16" X 16" MIN., (ORANGE)

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

BARRICADES AND SIGNS FOR MAINLINE CLOSURES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
<u>8/2013</u> DATE	<u>/S/ Travis Feltes</u> STATE TRAFFIC ENGINEER OF DESIGN
FHWA	



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:

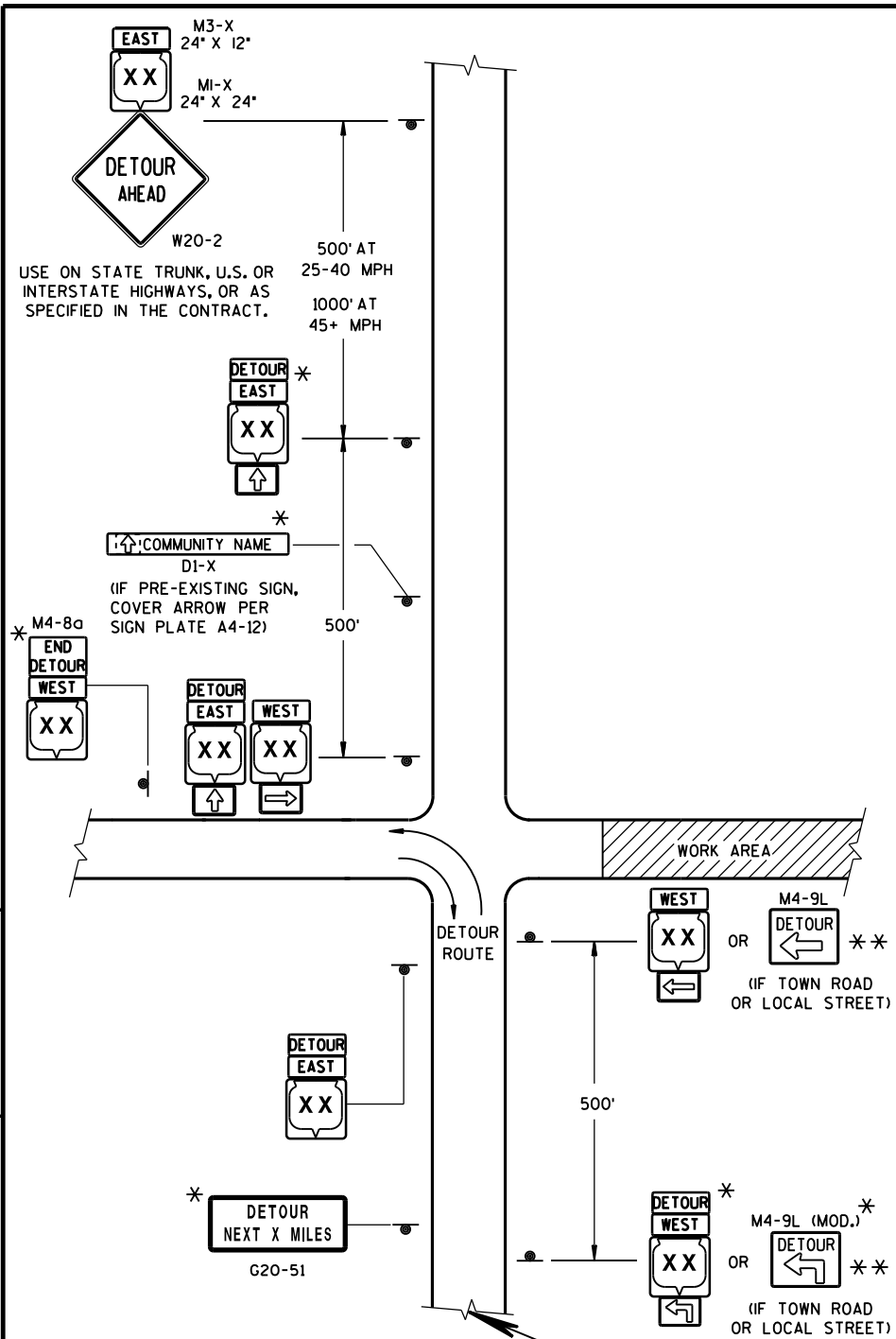
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" 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

8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- M4-8
- M3-X
- MI-4
- MI-5A
- MI-6
- M05-1
- M06-1
- M06-1

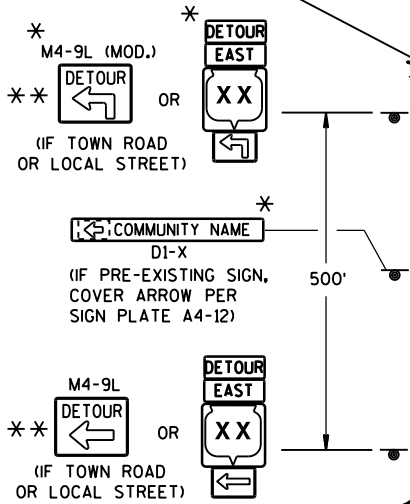
SEE SPECIFIC PROJECT DETOUR
SIGNING DETAIL SHEETS AND
DETAIL A OR B ON SDD 15C2-SHEET "a"

THIS DRAWING PROVIDES GENERAL GUIDANCE
ON TYPICAL DETOUR SIGN LAYOUT AND SPACING.
SEE PROJECT DETOUR SIGNING SHEETS FOR
SPECIFIC DETAILS FOR EACH PROJECT.

MATCH POINT

DETAIL F
DETOUR SIGNING

USE ON STATE TRUNK, U.S. OR
INTERSTATE HIGHWAYS, OR AS
SPECIFIED IN THE CONTRACT.



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.

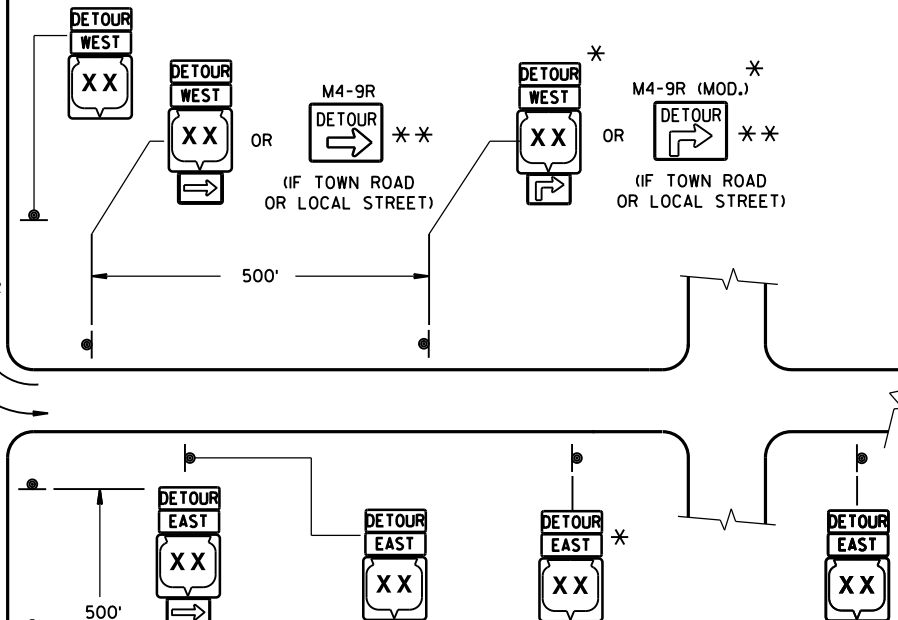
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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.

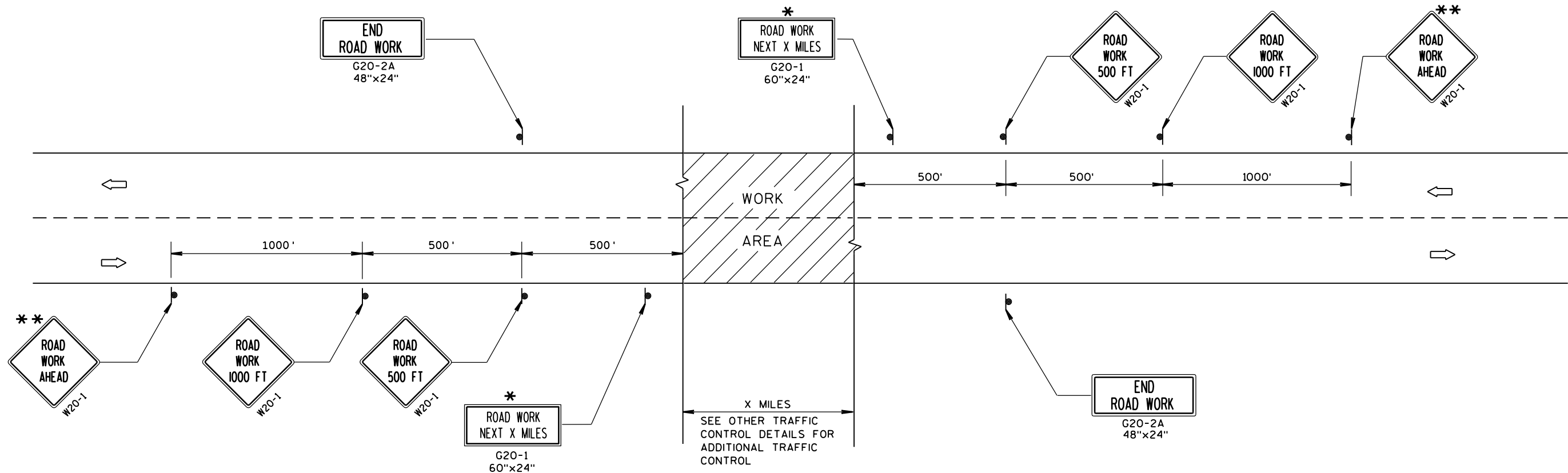


PLACE SIGNS BEYOND INTERSECTIONS WITH
STATE OR COUNTY TRUNK HIGHWAYS OR
AT 4 MILE MAXIMUM SPACING (4 BLOCKS IF
URBAN AREA.)

DETOUR SIGNING FOR
MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



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.

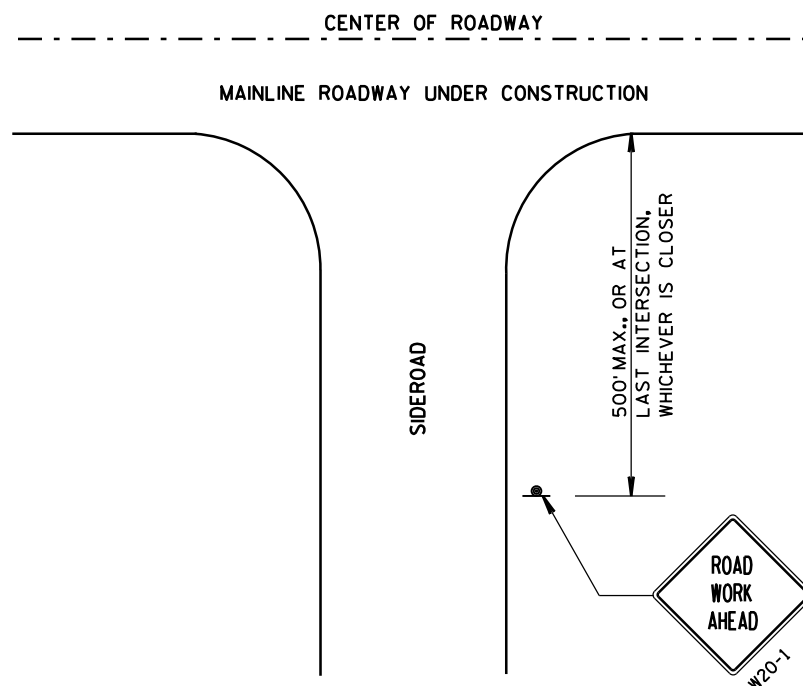
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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 W20-1 "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

8/2013

DATE

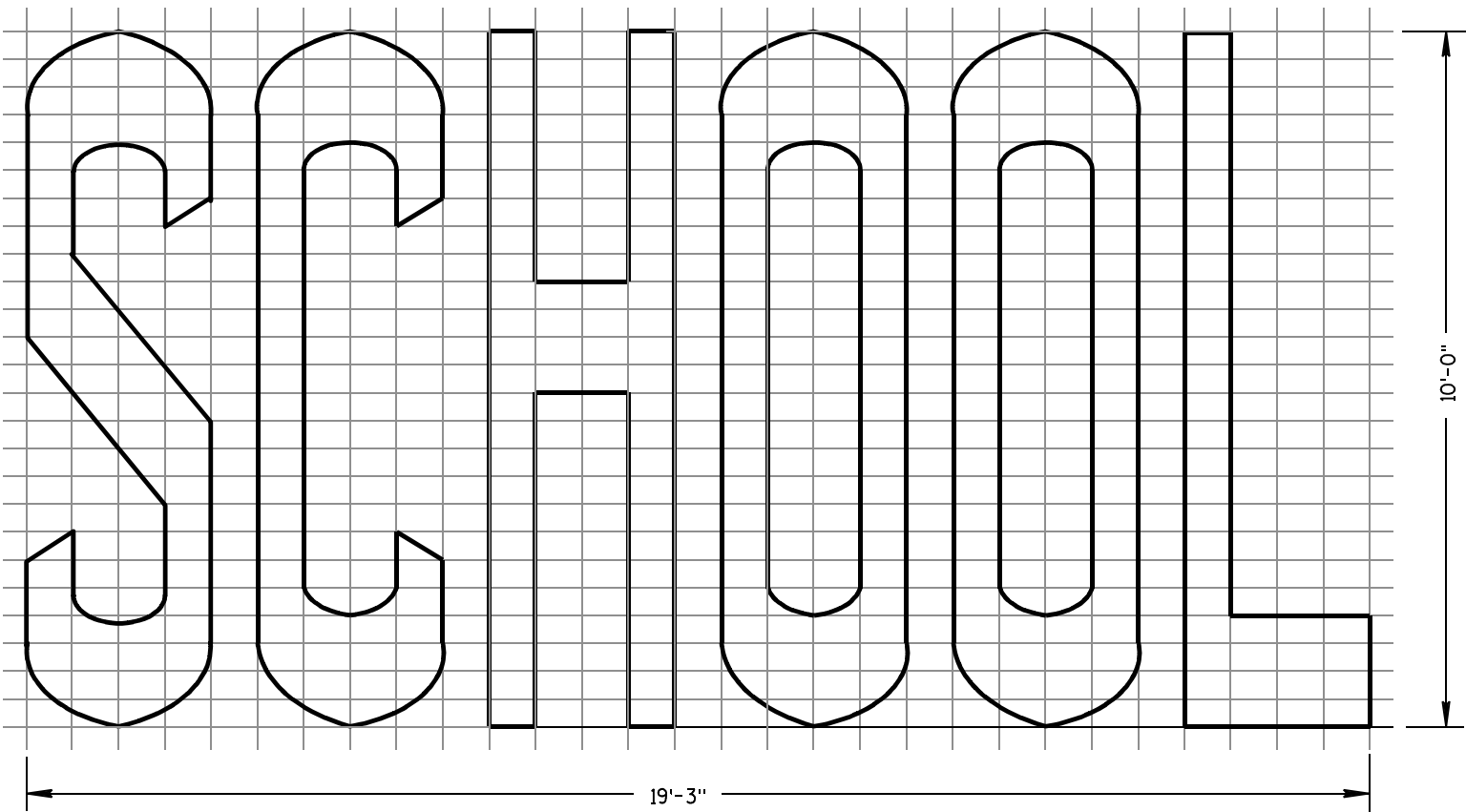
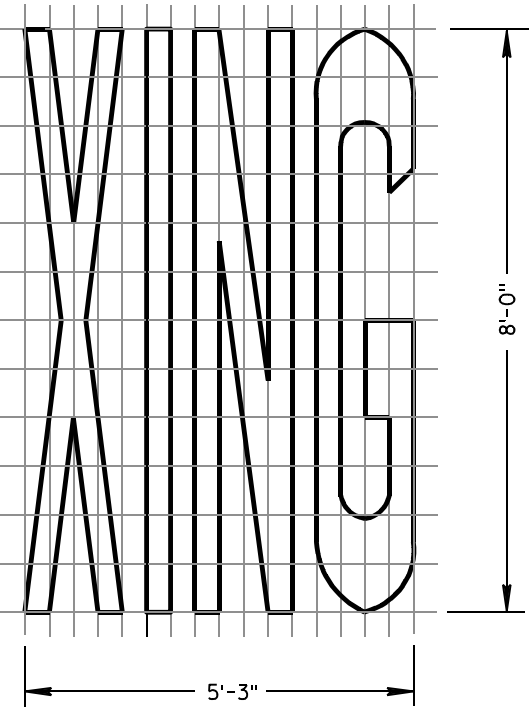
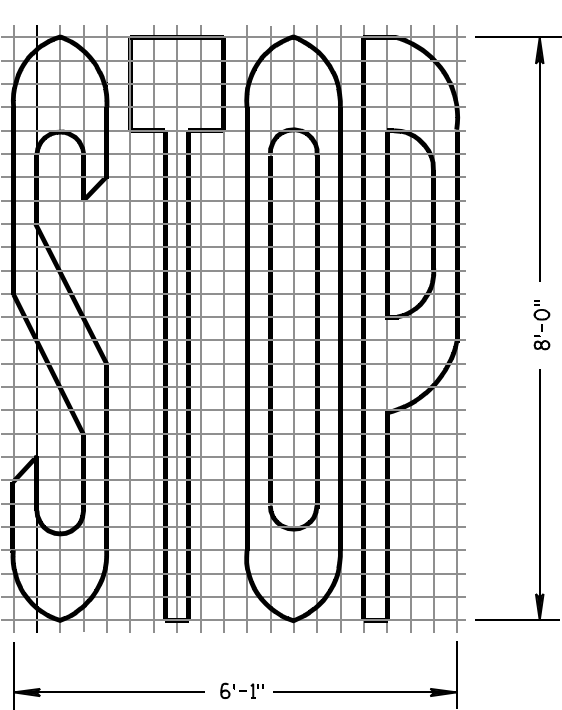
FHWA

/S/ Travis Feltes
STATE TRAFFIC ENGINEER OF DESIGN

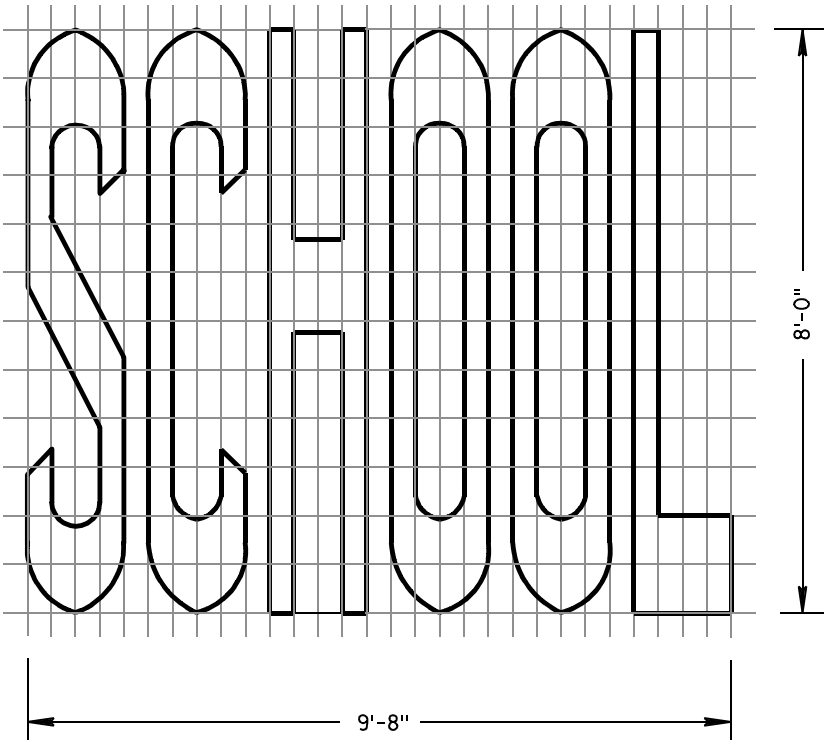
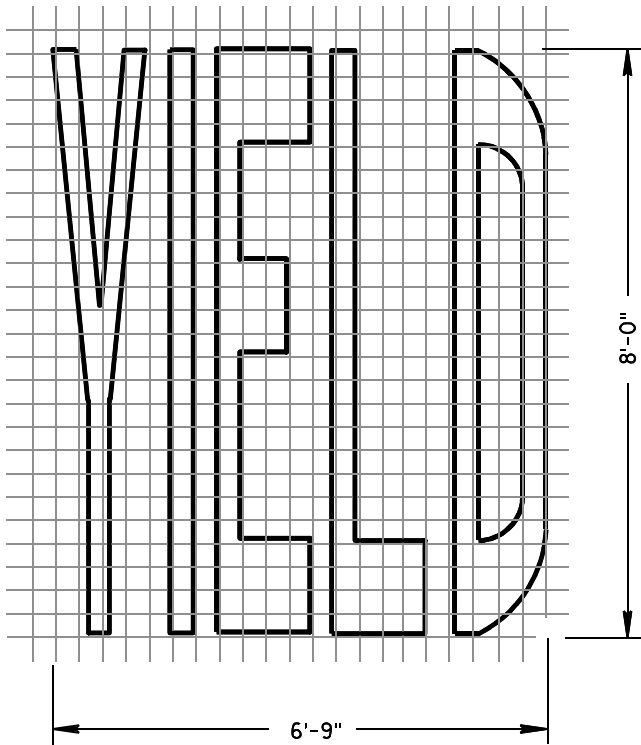
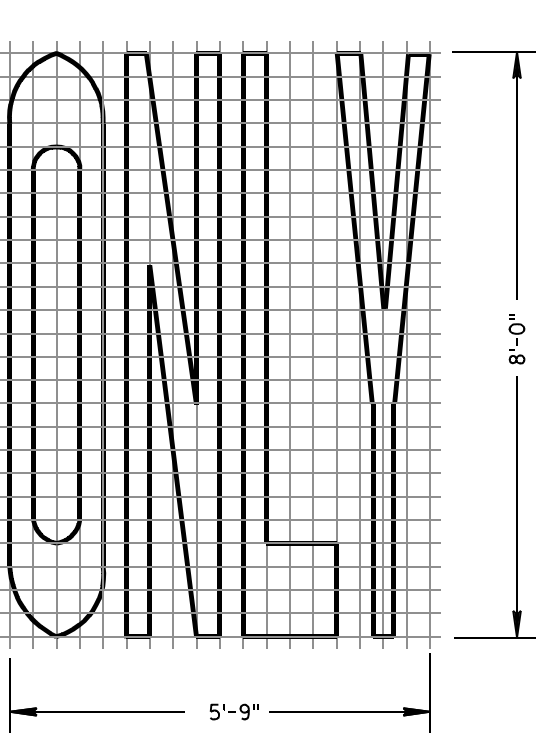
GENERAL NOTES

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

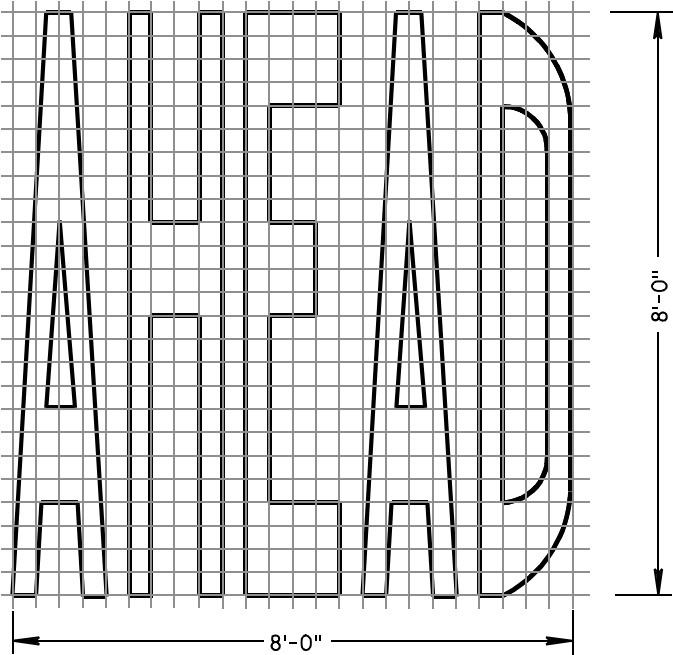
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



TWO-LANE



SINGLE-LANE



PAVEMENT MARKING WORDS

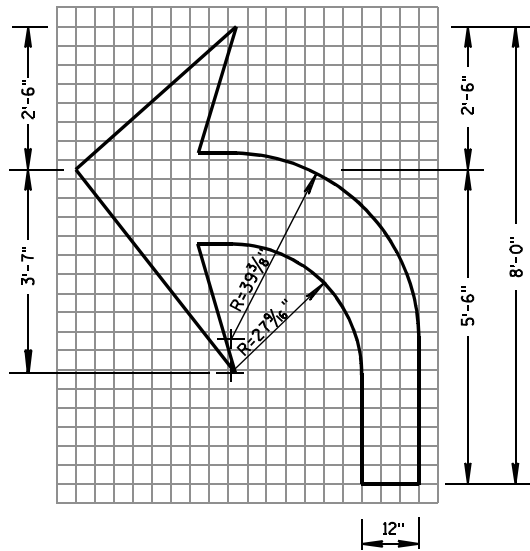
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

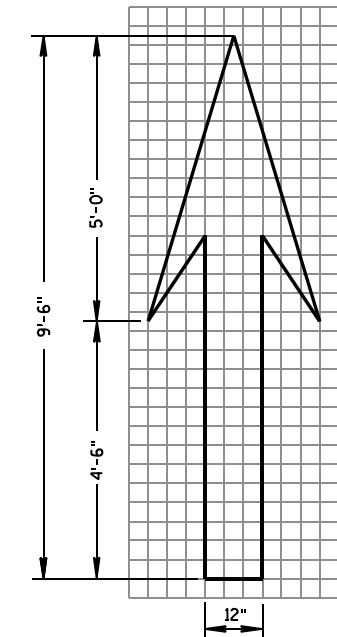
7-1-11
DATE

/S/ Thomas N. Notbohm
STATE TRAFFIC ENGINEER OF DESIGN

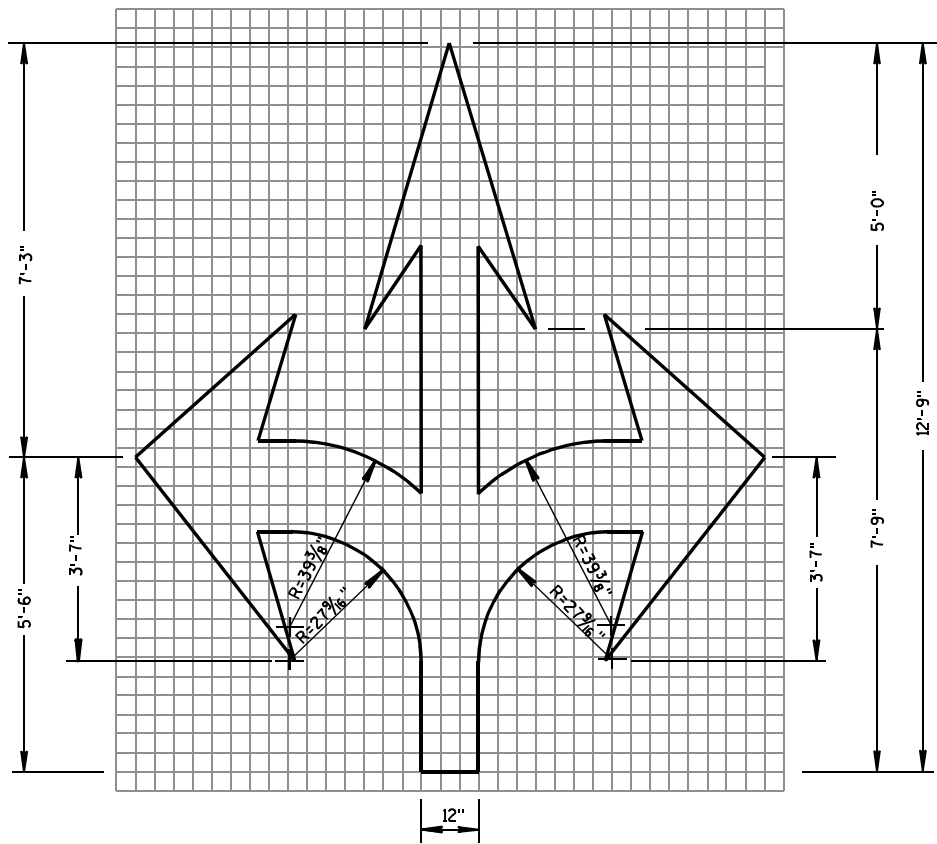
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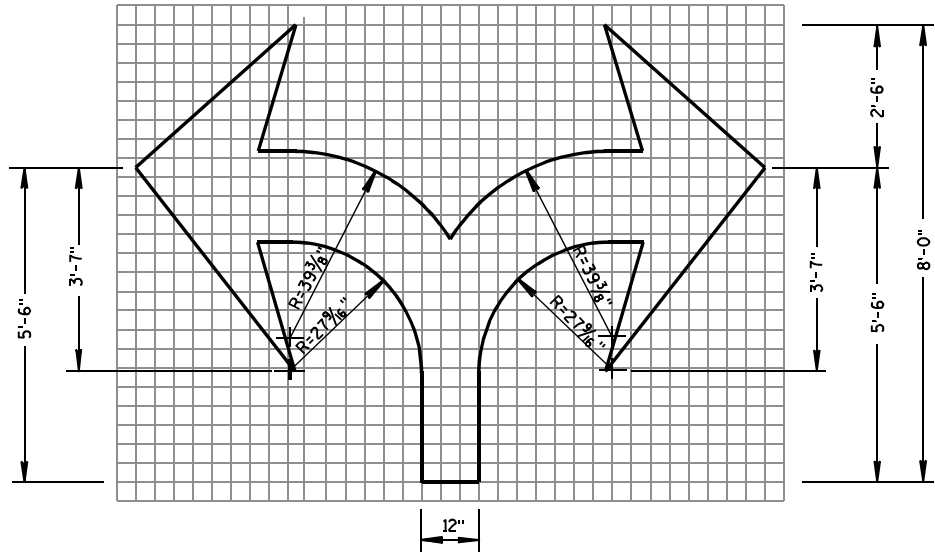
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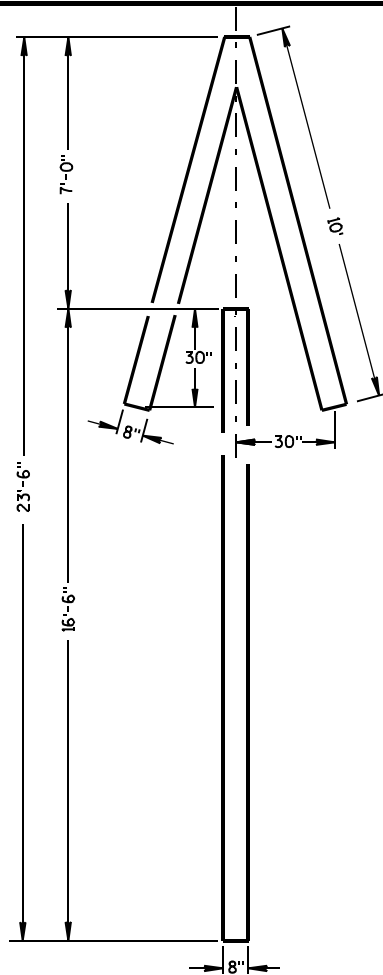
TYPE 1



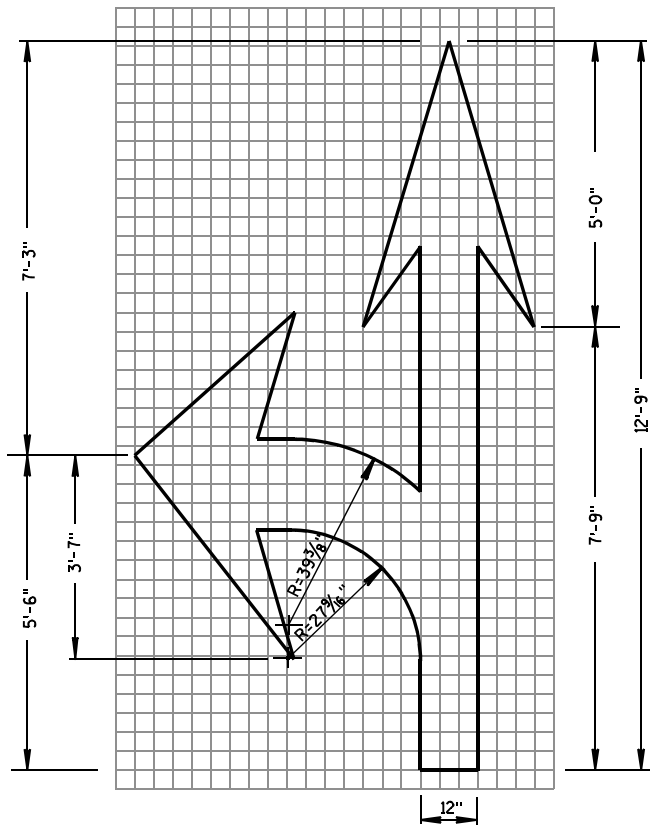
TYPE 6



TYPE 7



TYPE 4

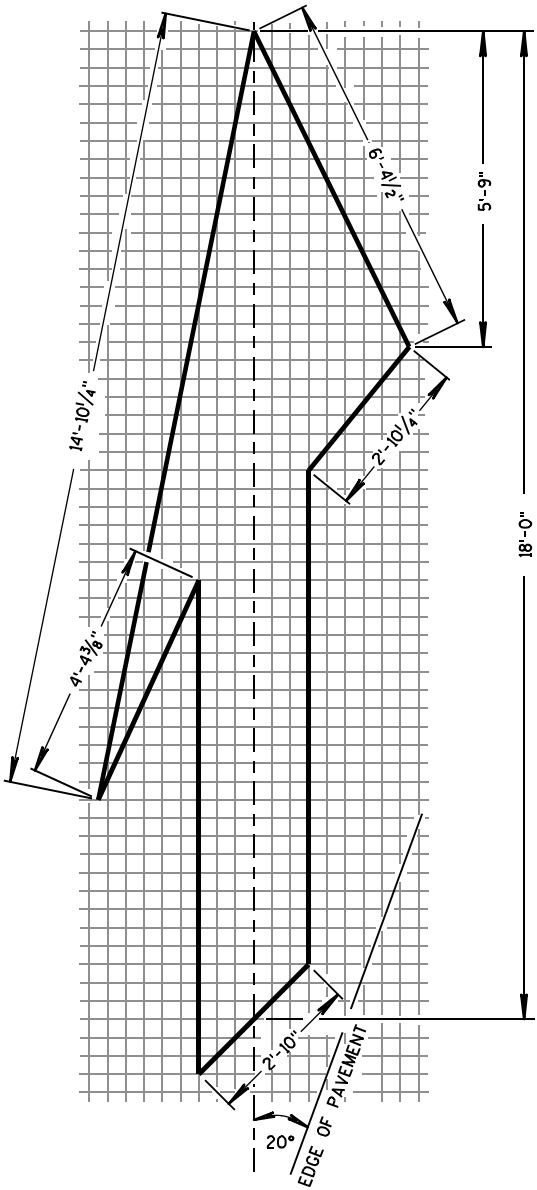


TYPE 3

GENERAL NOTES

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

ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



TYPE 5 LANE DROP ARROW

PAVEMENT MARKING ARROWS

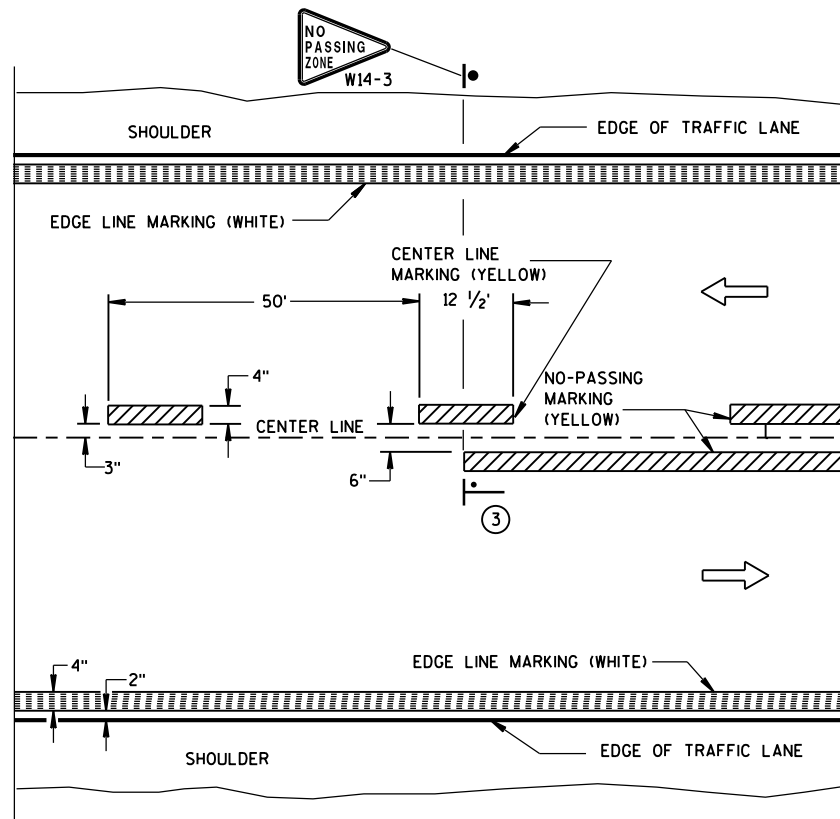
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

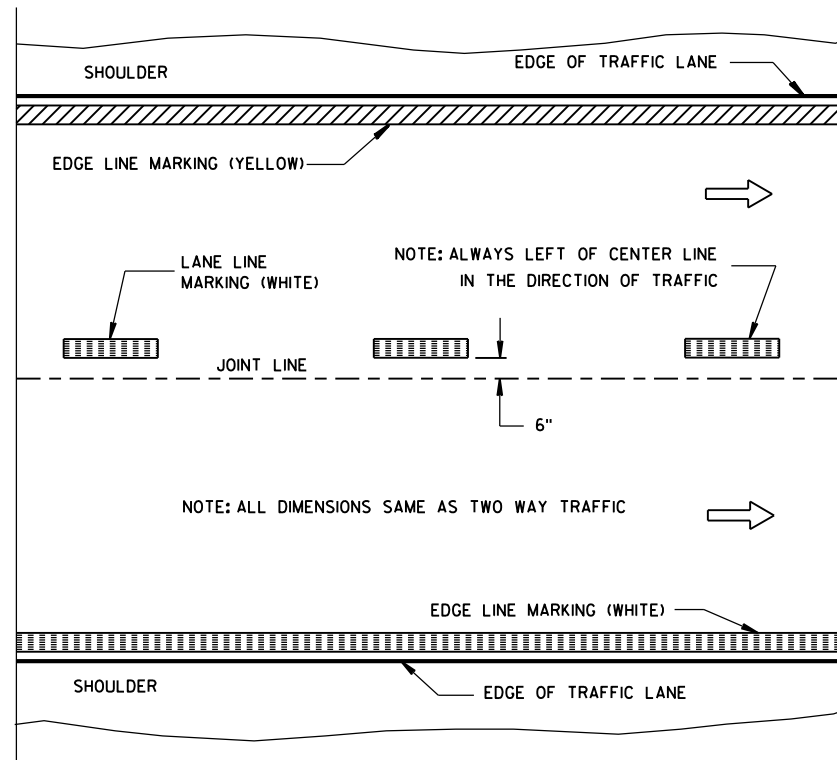
7/1/11
DATE

/S/ Thomas N. Notbohm
STATE TRAFFIC ENGINEER OF DESIGN

FHWA

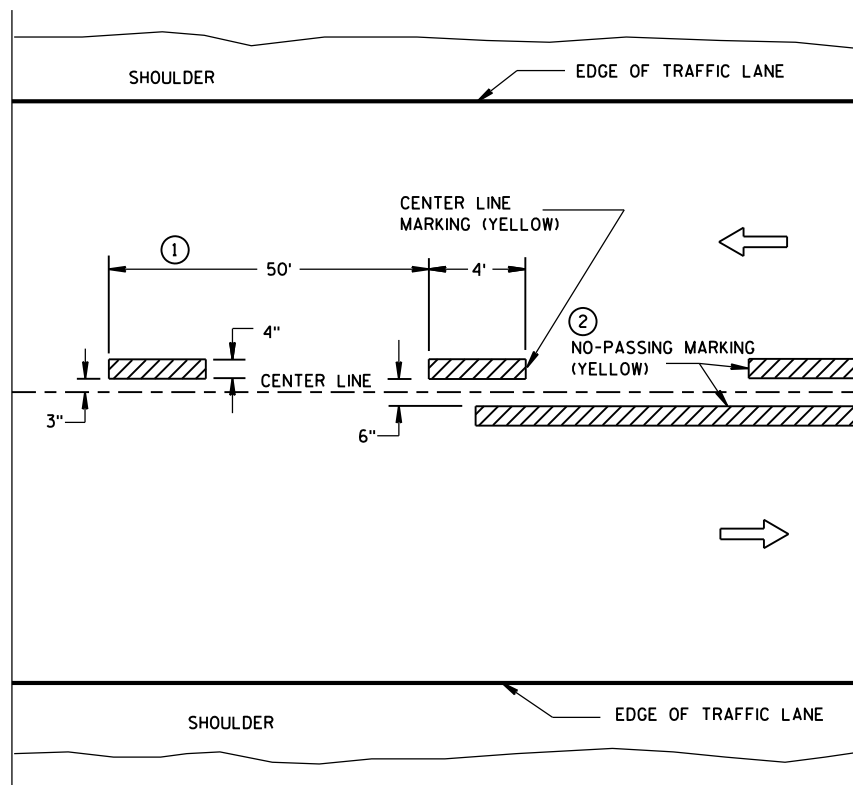


TWO WAY TRAFFIC

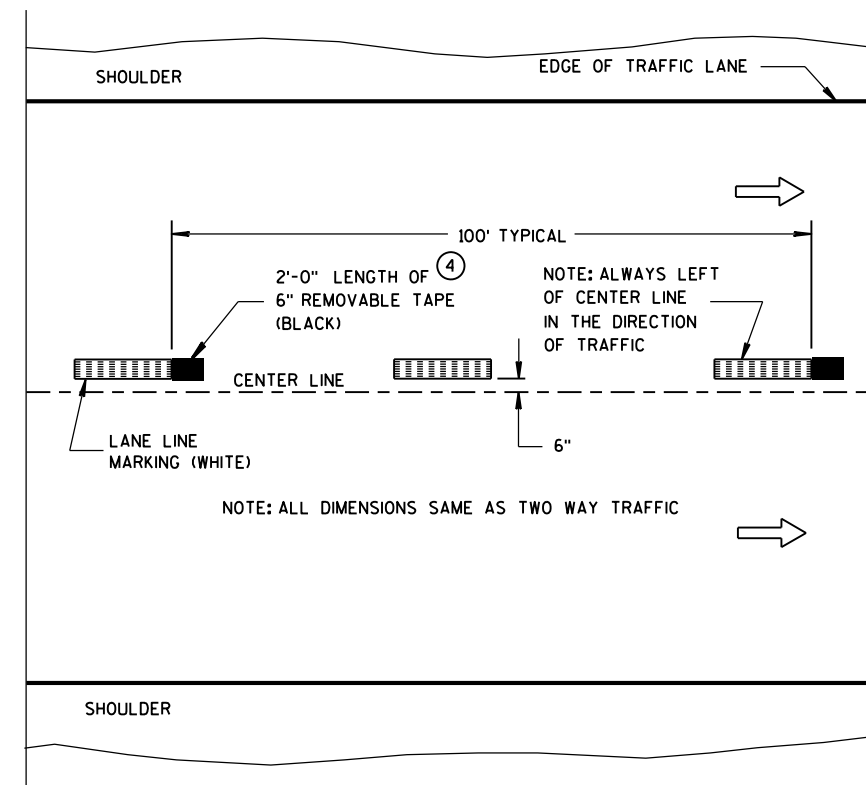


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING
(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

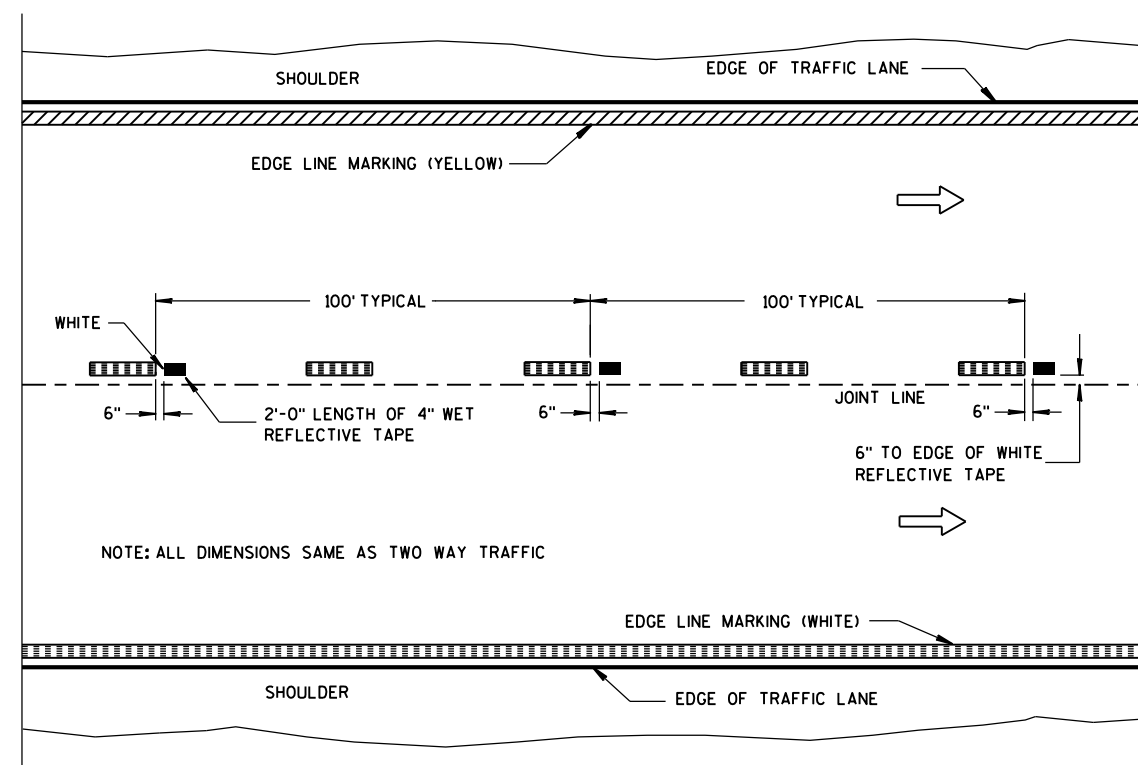
GENERAL NOTES

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

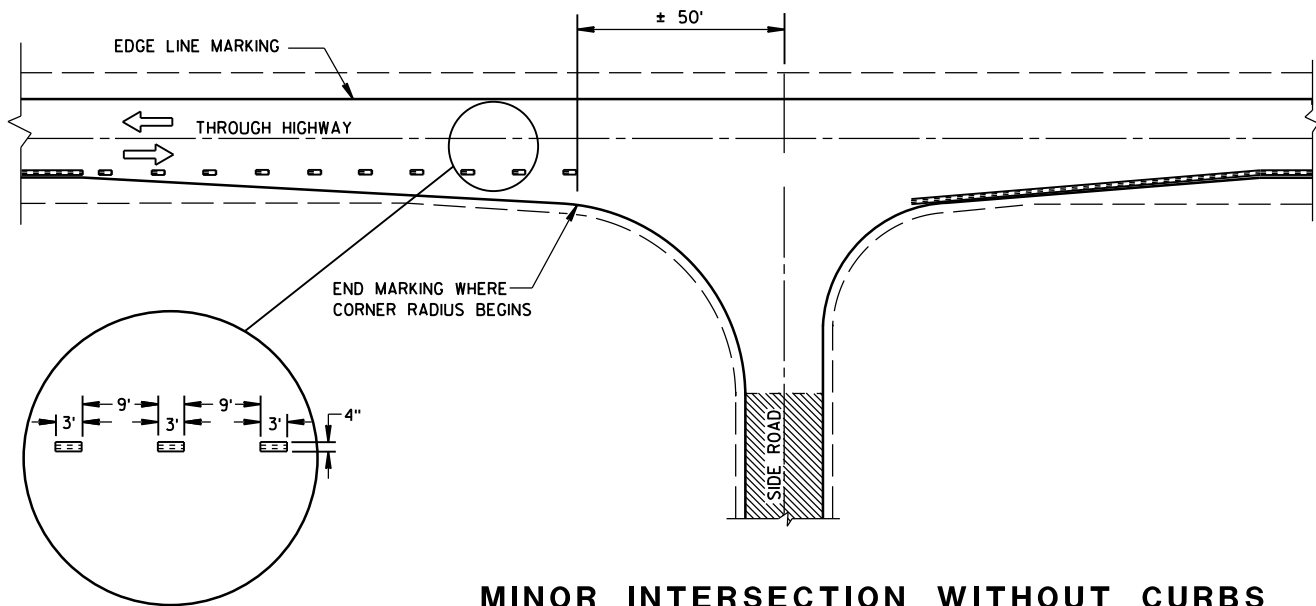
- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

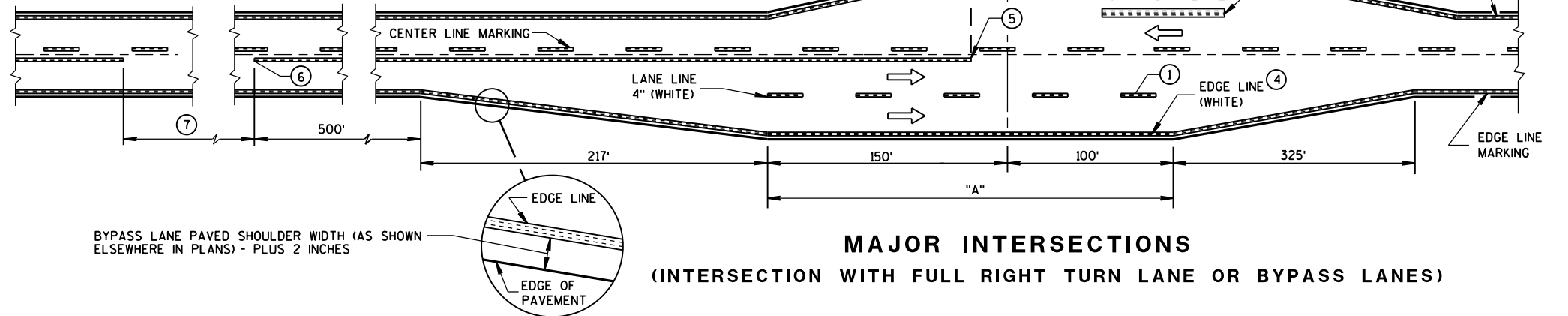
APPROVED
5-13-2013
DATE
FHWA

/S/ Travis Feltes
STATE TRAFFIC ENGINEER



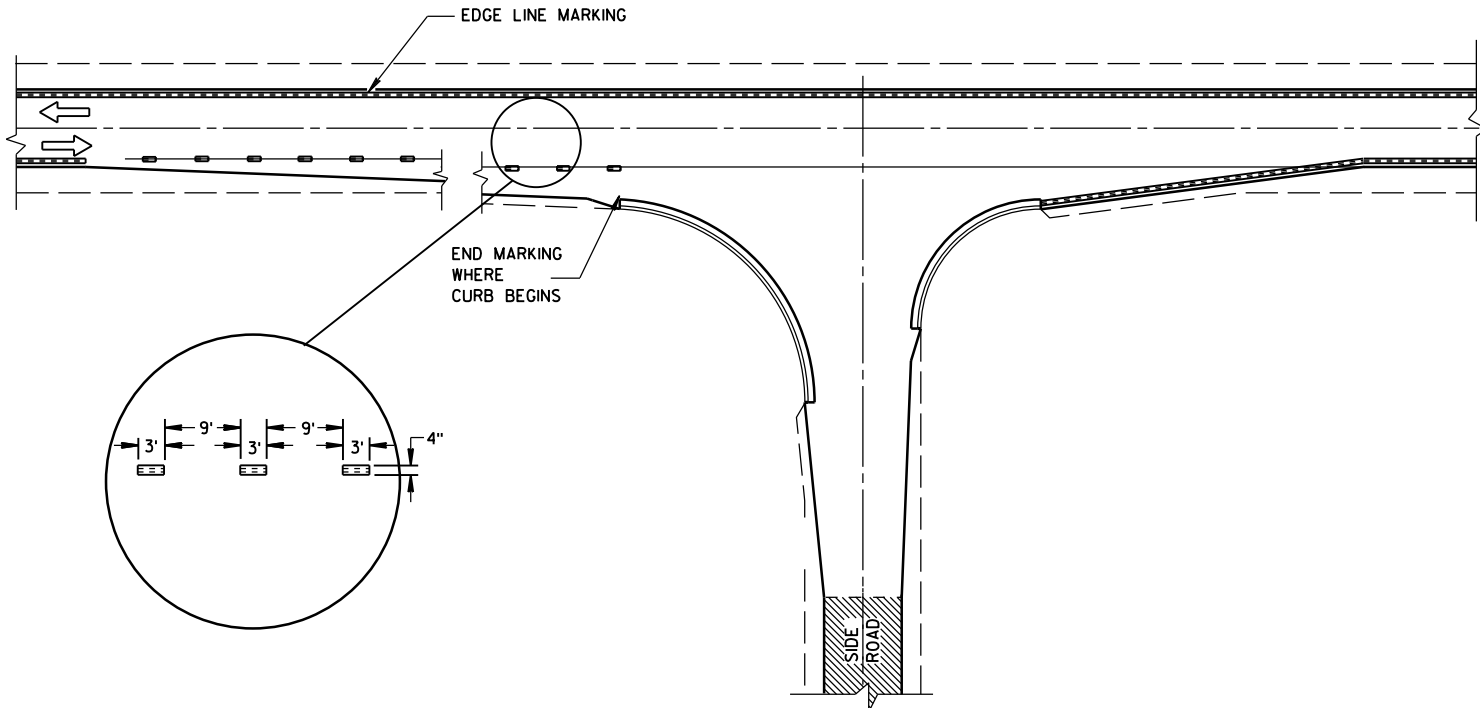
MINOR INTERSECTION WITHOUT CURBS

POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792

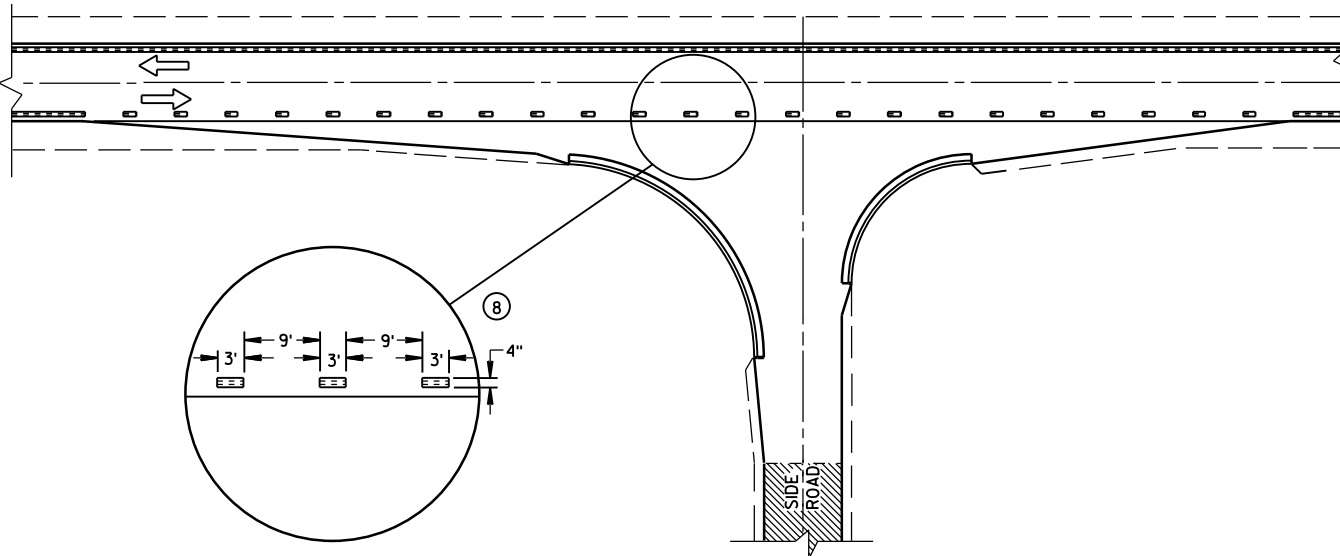


MAJOR INTERSECTIONS

(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



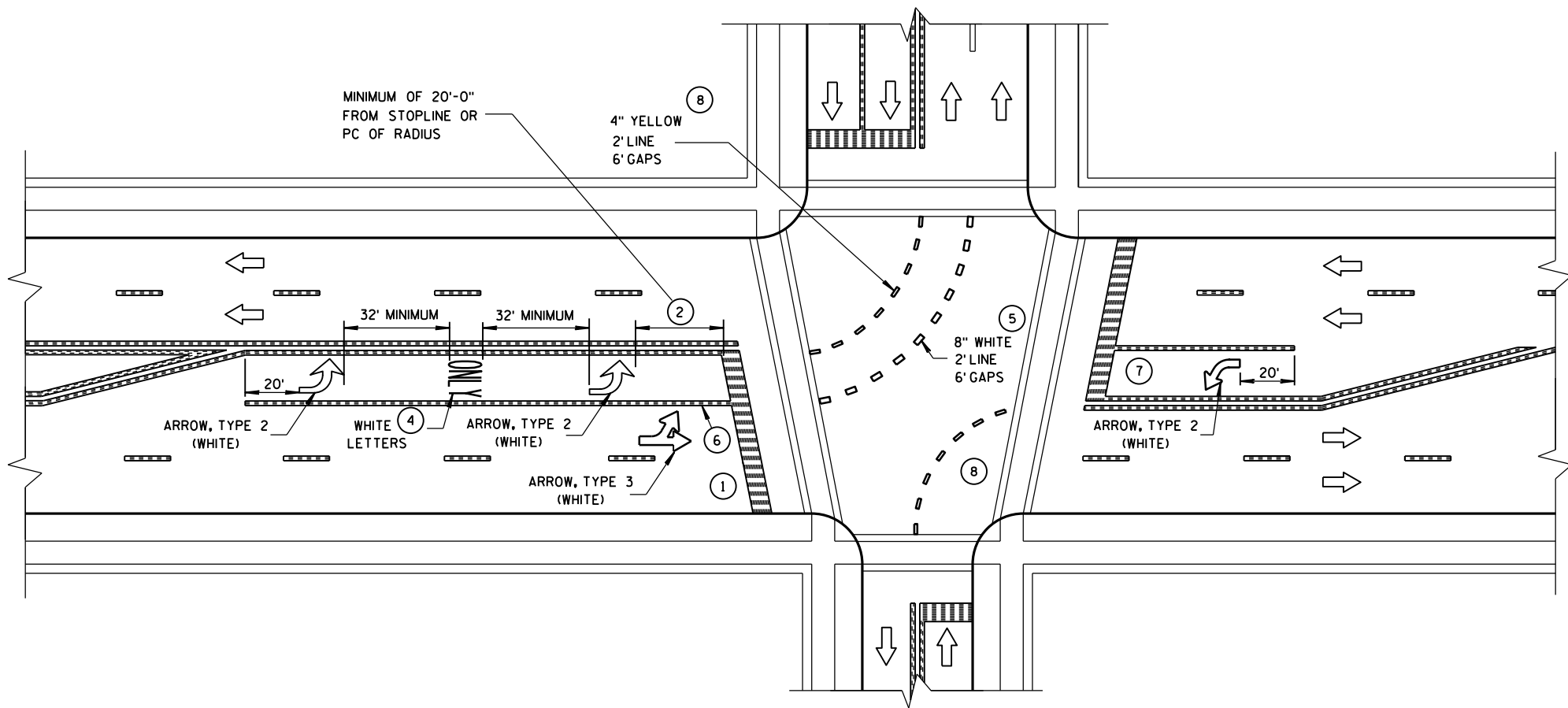
MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS
(FOR SPECIAL CONDITIONS AS SPECIFIED)

GENERAL NOTES

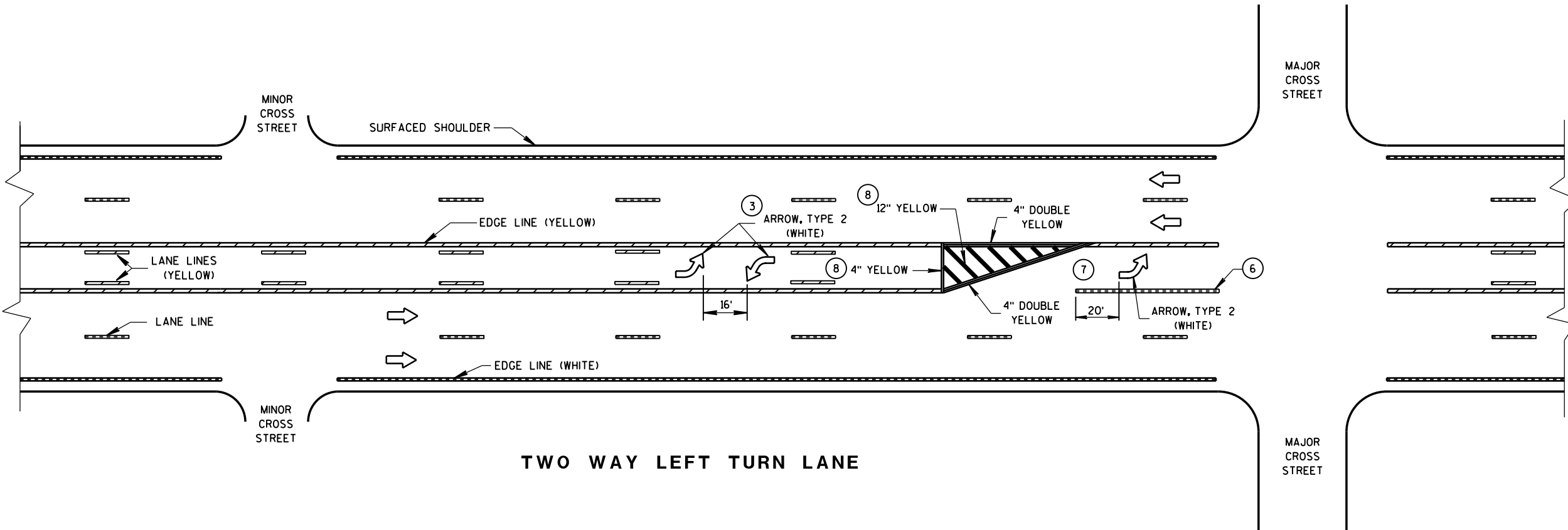
- EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.
- 1 WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
 - 2 WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
 - 3 ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.
 - 4 THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.
 - 5 BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
 - 6 BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
 - 7 IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.
 - 8 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



GENERAL NOTES

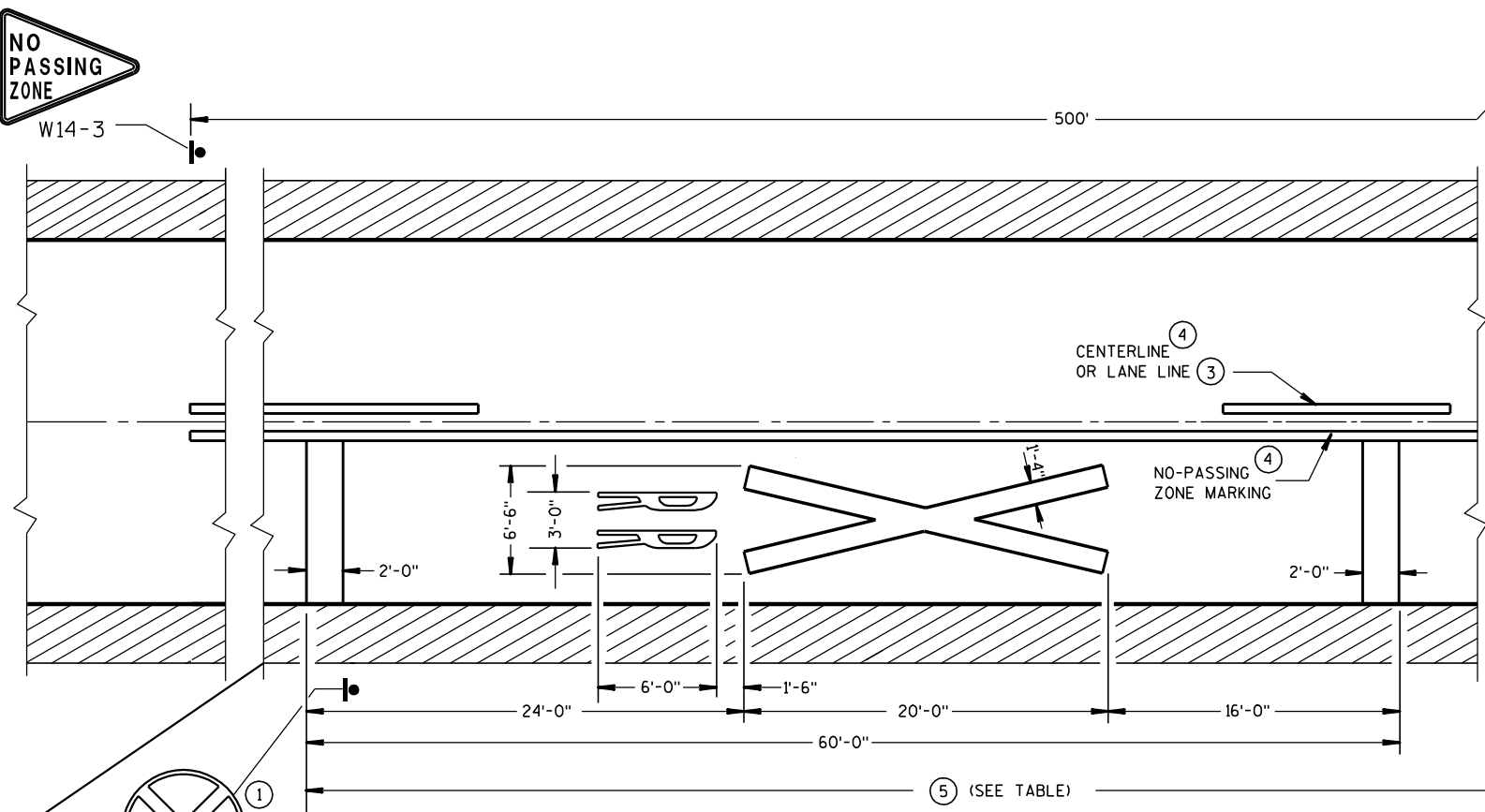
- 1 STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- 2 DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
- 3 A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- 4 ADD EXTRA SETS OF ONE ARROW AND ONE 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

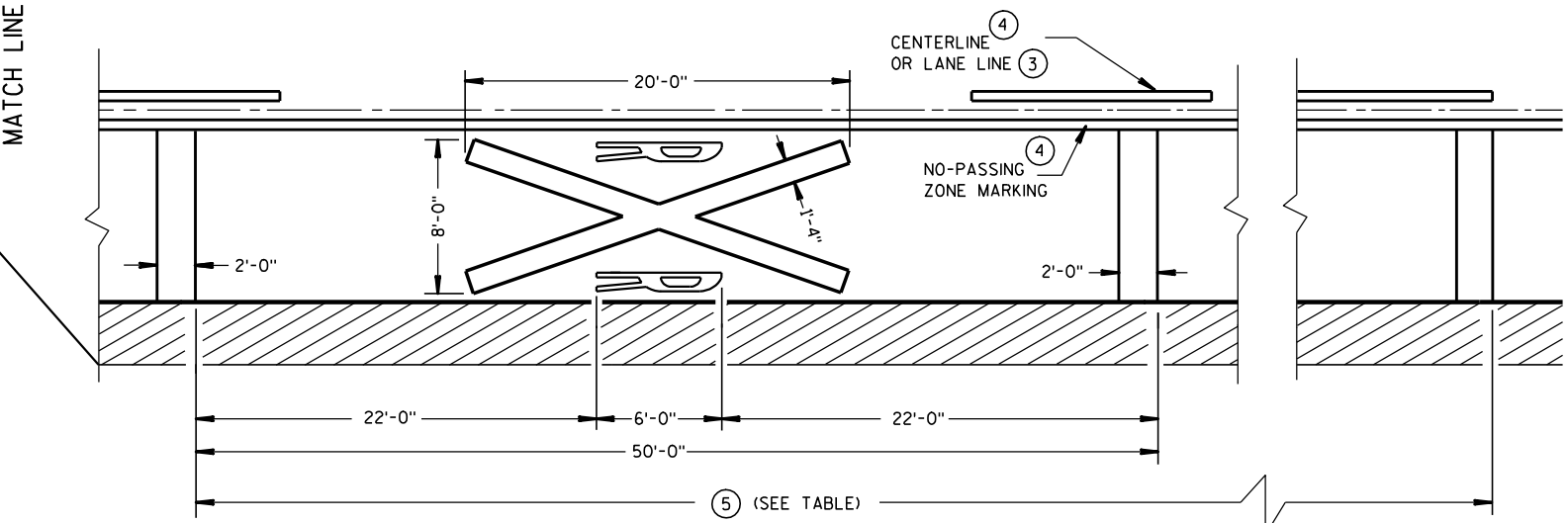


PAVEMENT MARKING
(LEFT TURN LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



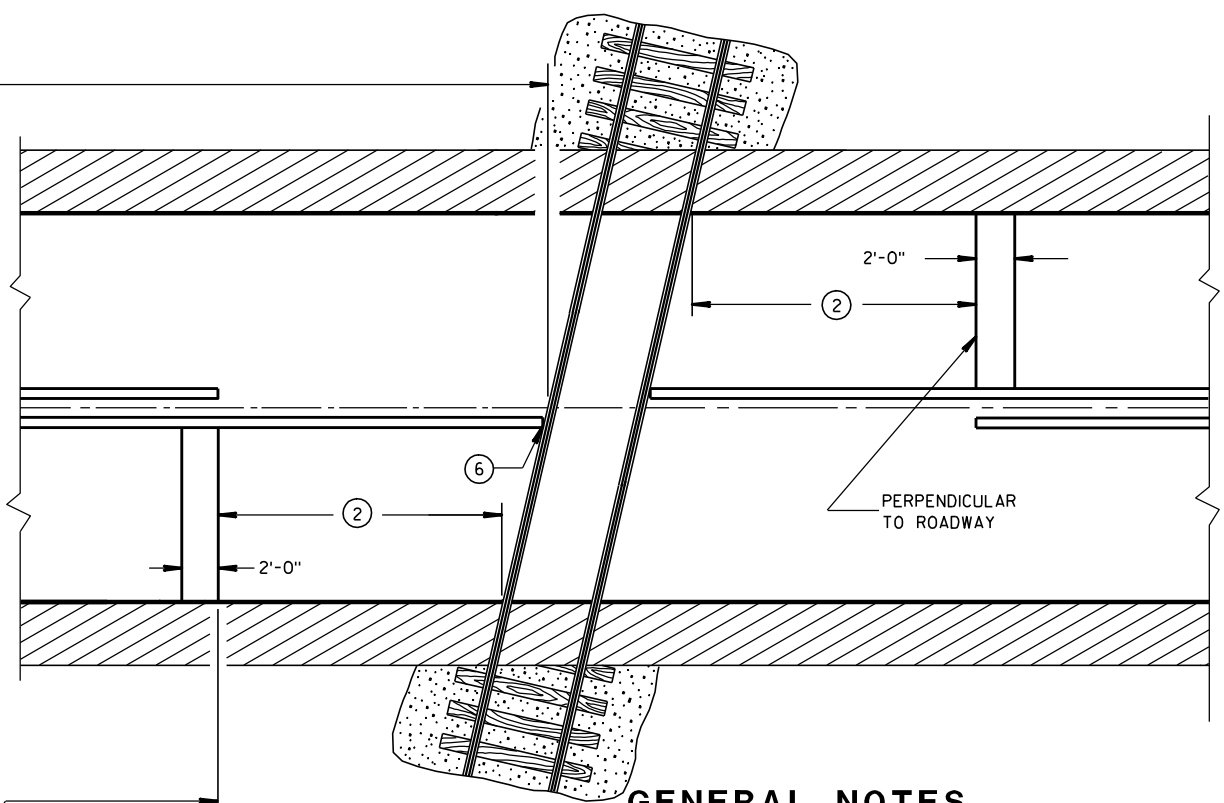
PREFERRED PAVEMENT MARKING



ALTERNATE PAVEMENT MARKING

Posted Speed (M.P.H.)	Dimension Range (Feet)
25	150*- 250
30	200*- 300
35	250*- 450
40	300*- 500
45	400*- 650
50	550*- 800
55	750*- 1000
60	1000*- 1250
65	1000*- 1250

* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSE PROXIMITY OF DRIVEWAYS, BRIDGES, SIDEROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.



GENERAL NOTES

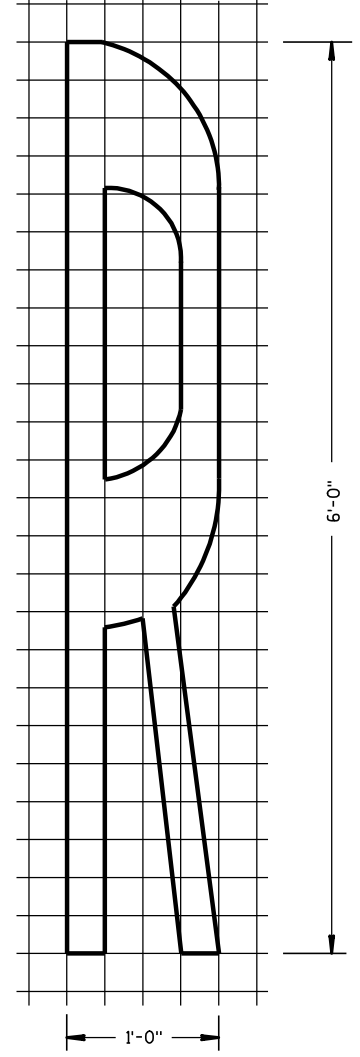
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

A THREE-LANE ROADWAY SHOULD BE MARKED WITH A CENTERLINE FOR TWO-LANE APPROACH OPERATION ON THE APPROACH TO A CROSSING.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE. ALL LETTERS AND SYMBOLS SHALL BE IN CONFORMANCE WITH THE "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" (ADOPTED BY THE FEDERAL HIGHWAY ADMINISTRATION).

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

- ① A PORTION OF THE PAVEMENT MARKING SYMBOL SHOULD BE DIRECTLY OPPOSITE THE ADVANCE WARNING SIGN (W10-1).
- ② MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNALS, GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.
- ③ REFLECTIVE WHITE.
- ④ REFLECTIVE YELLOW 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.
- ⑤ TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- ⑥ FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.



SIGNING AND PAVEMENT MARKING
DETAILS FOR RAILROAD-HIGHWAY
GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
1-9-2012 /S/ Thomas N. Notbohm
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA

LEGEND

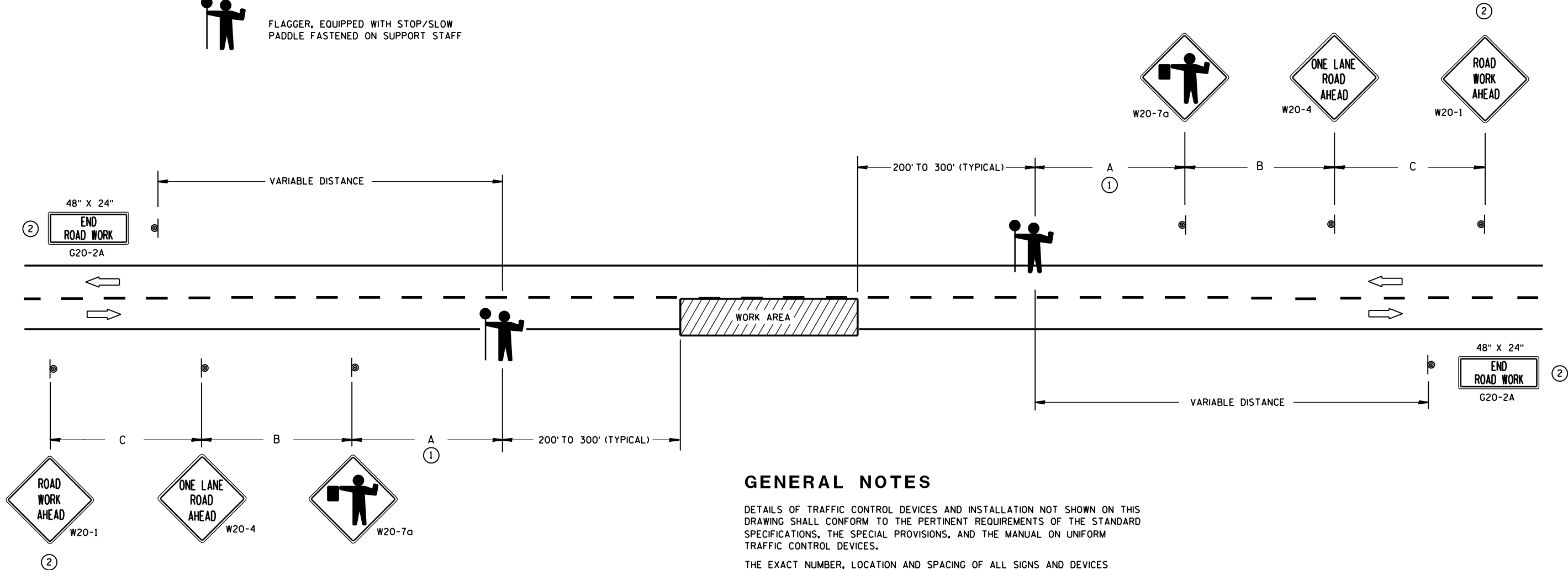
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



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.



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.

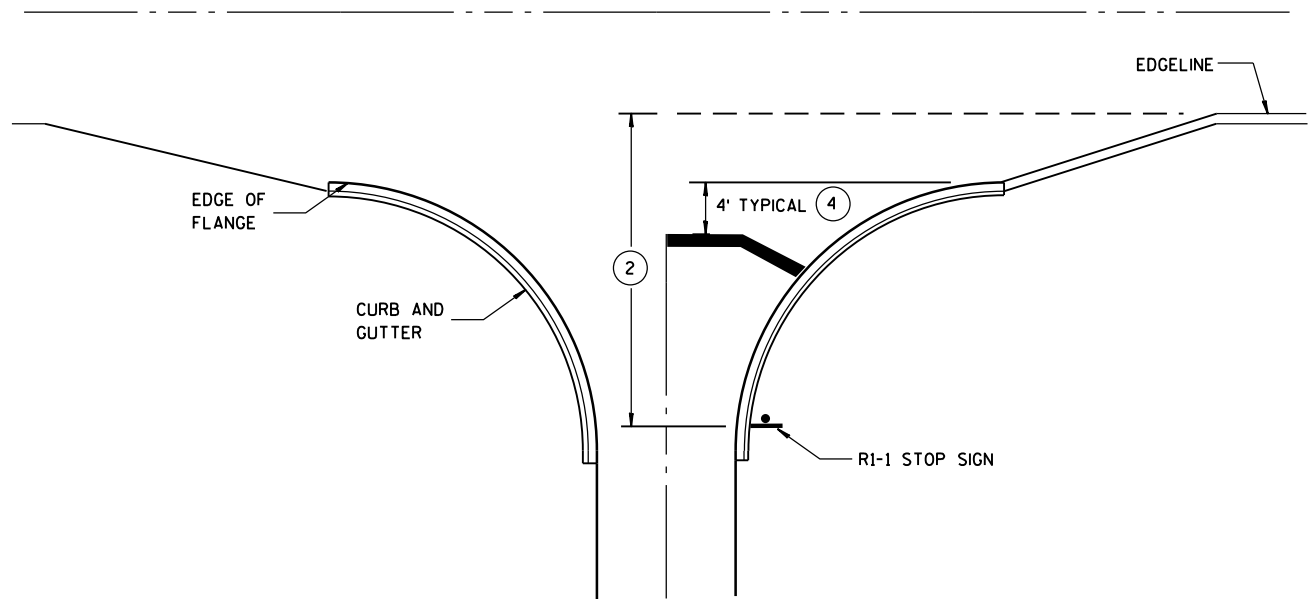
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

- 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.

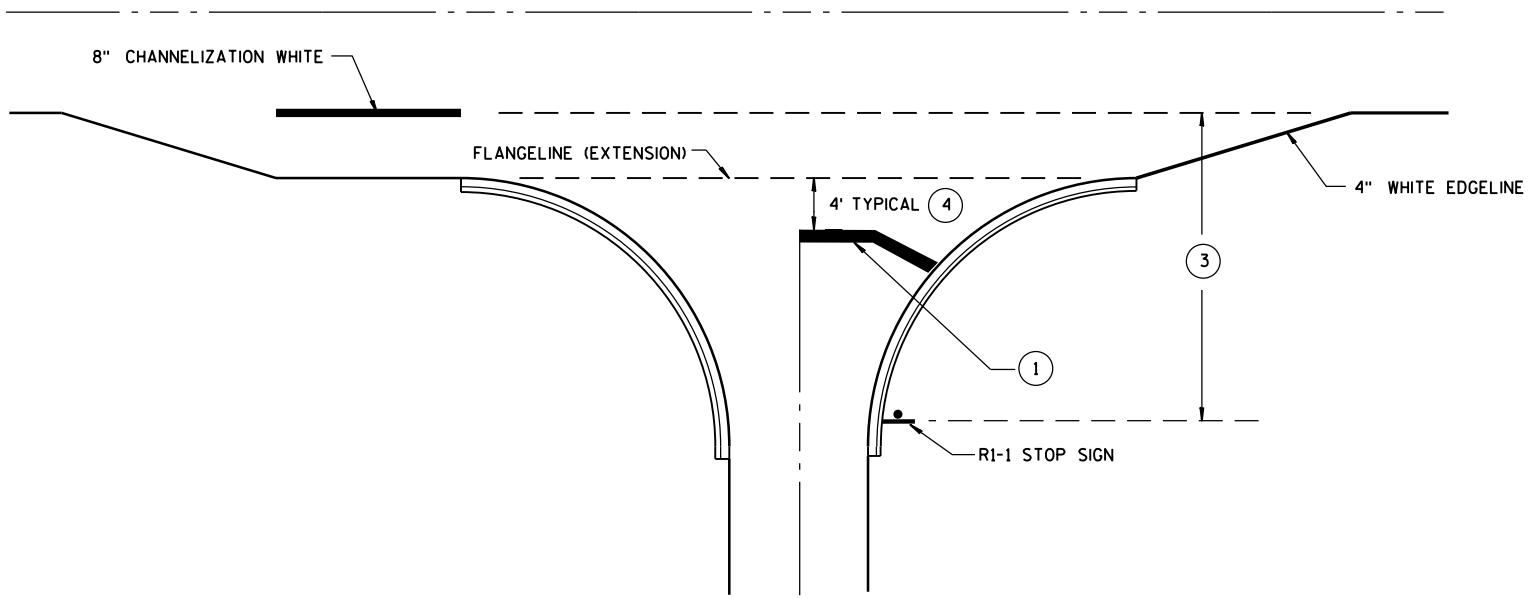
TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

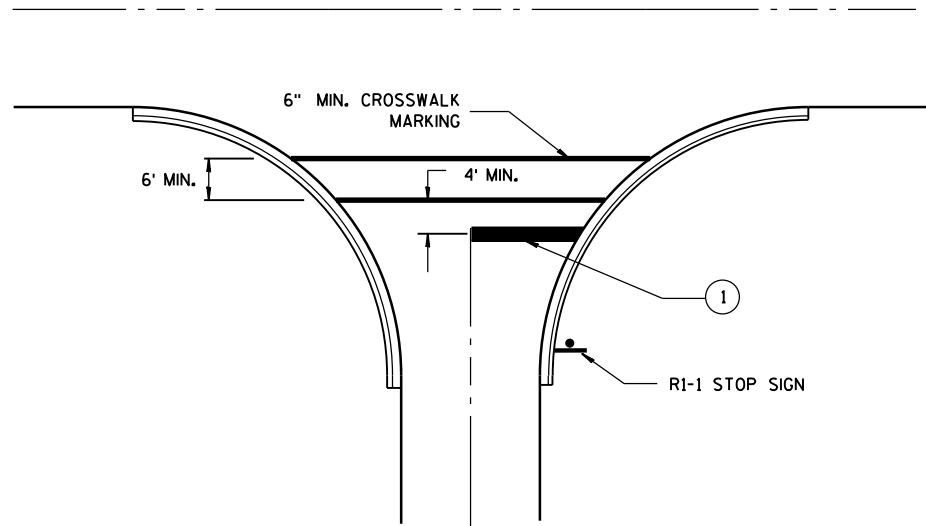
APPROVED
8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



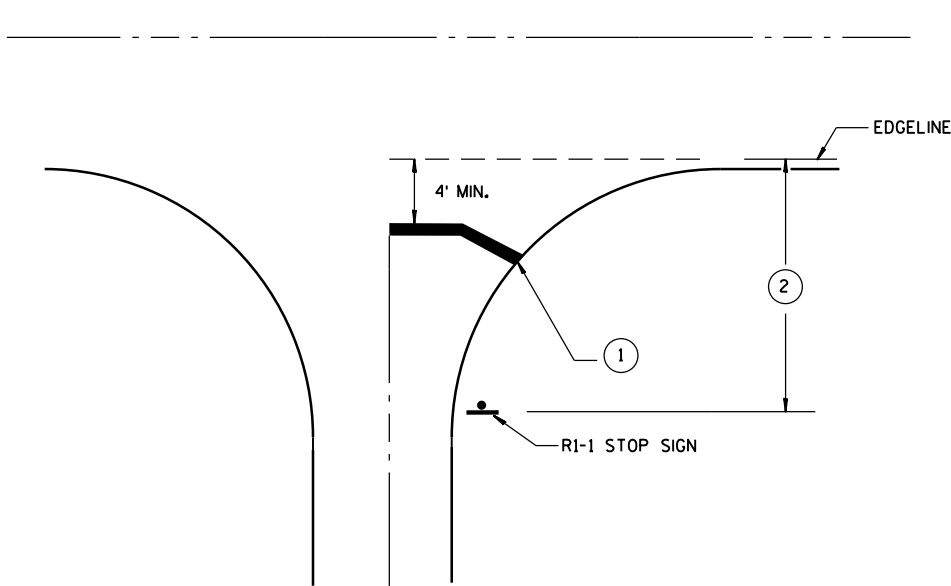
TYPICAL STOP LINE PAVEMENT MARKING
WITH CURB AND GUTTER



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 EDGE LINE 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.

STOP LINE AND CROSSWALK
PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/30/2013 DATE /S/ Travis Feltz
STATE TRAFFIC ENGINEER
FHWA

GENERAL NOTES

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

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

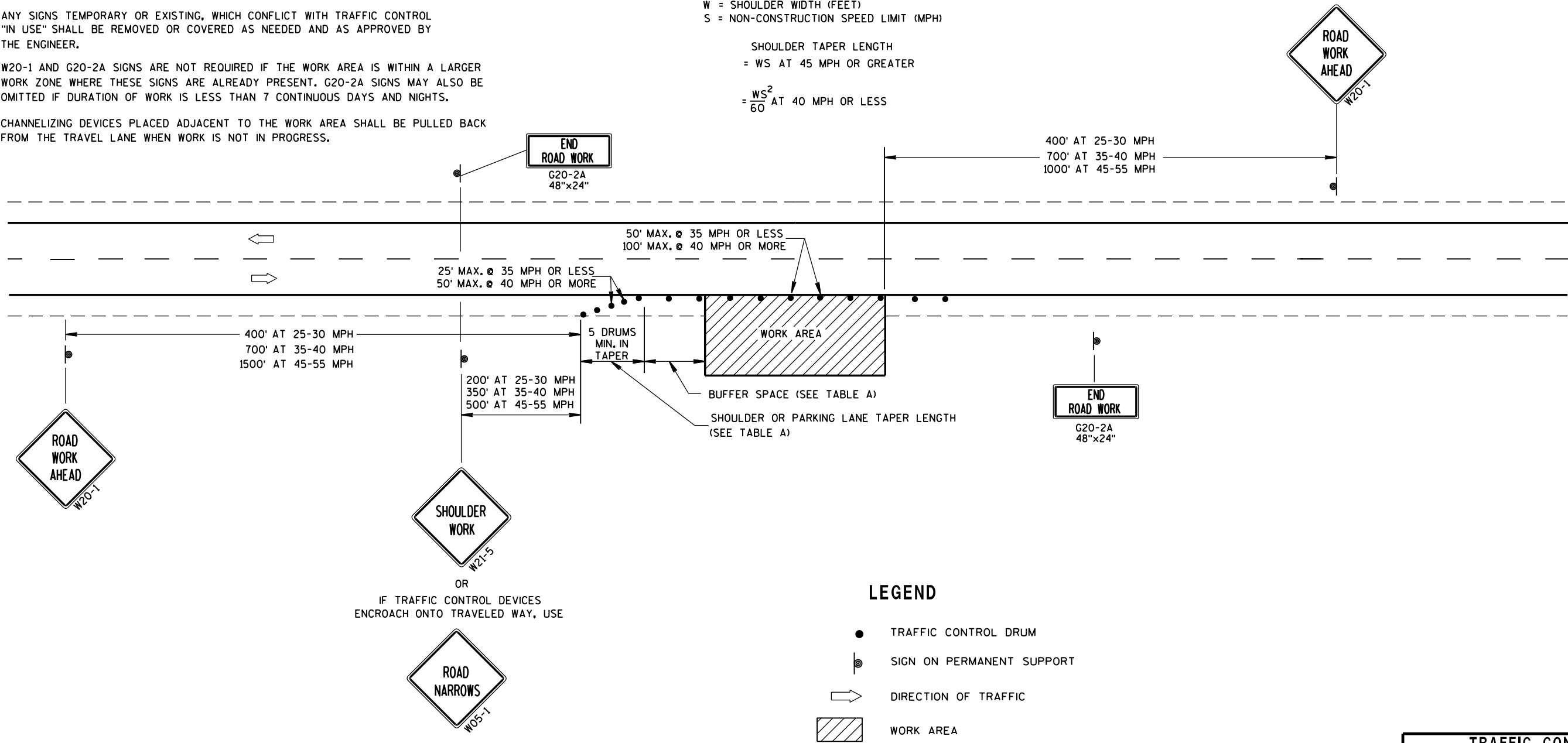
TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S \ W	4	6	8	10	
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
= WS AT 45 MPH OR GREATER

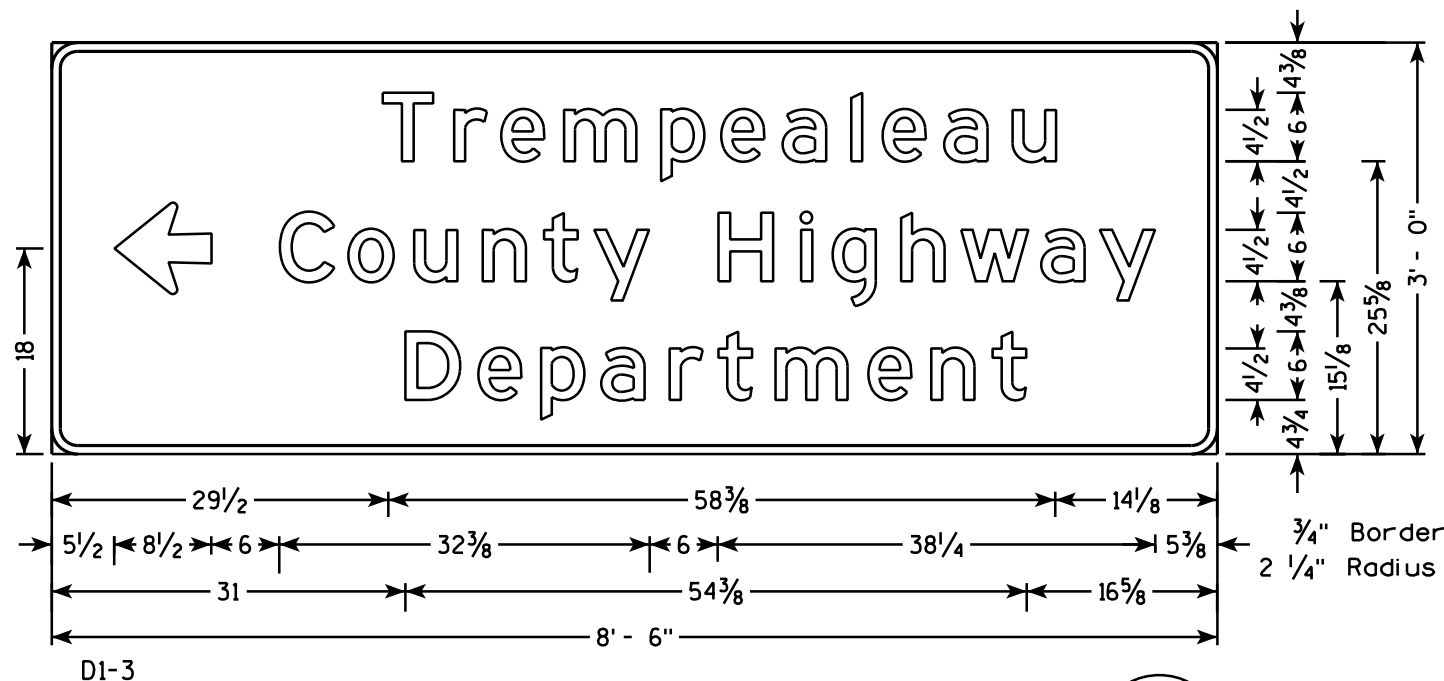
= $\frac{WS^2}{60}$ AT 40 MPH OR LESS



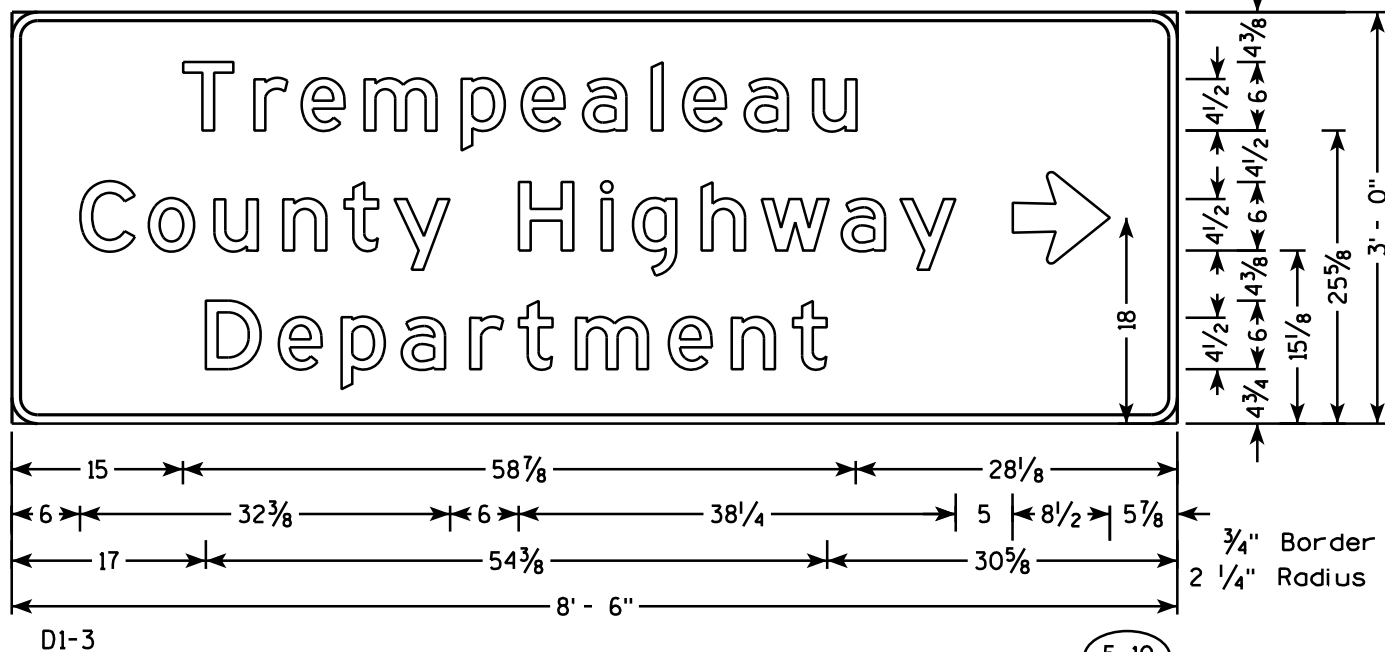
LEGEND

- TRAFFIC CONTROL DRUM
- ⦿ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ▨ WORK AREA

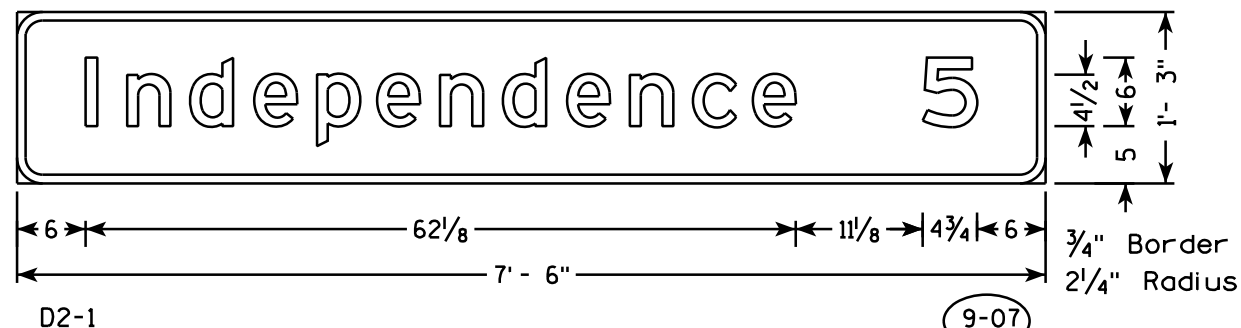
TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 8/2013 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN
FHWA	



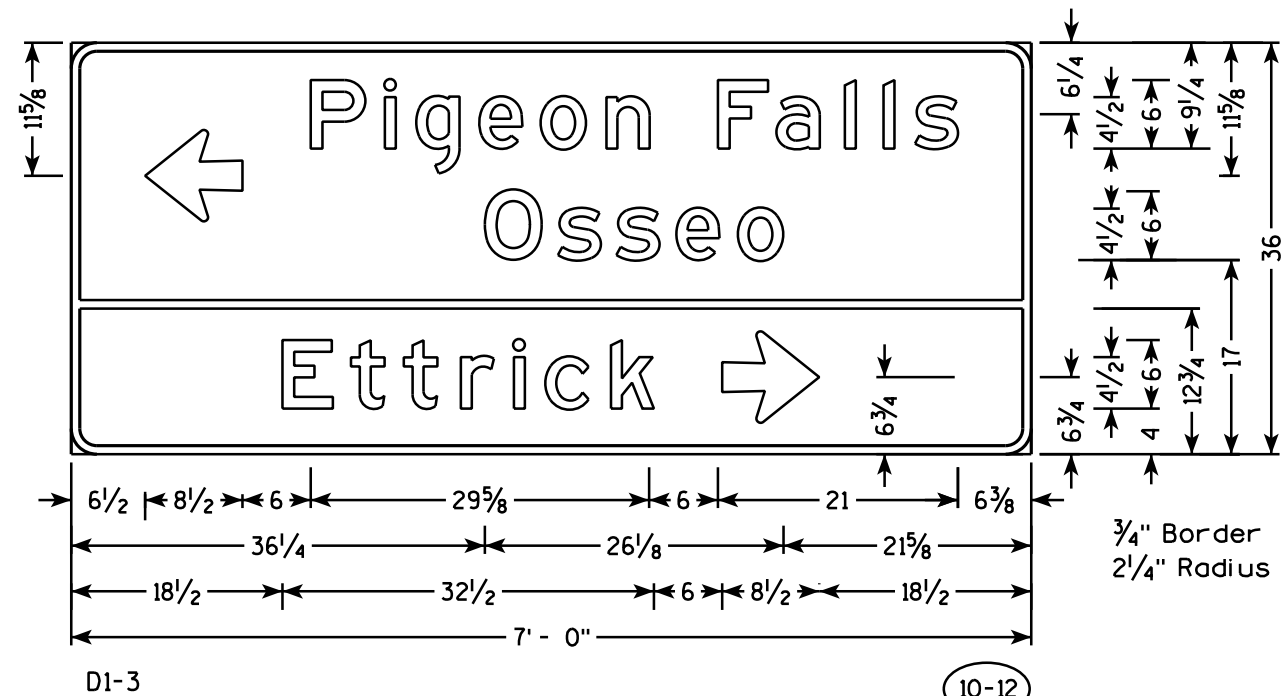
6-04



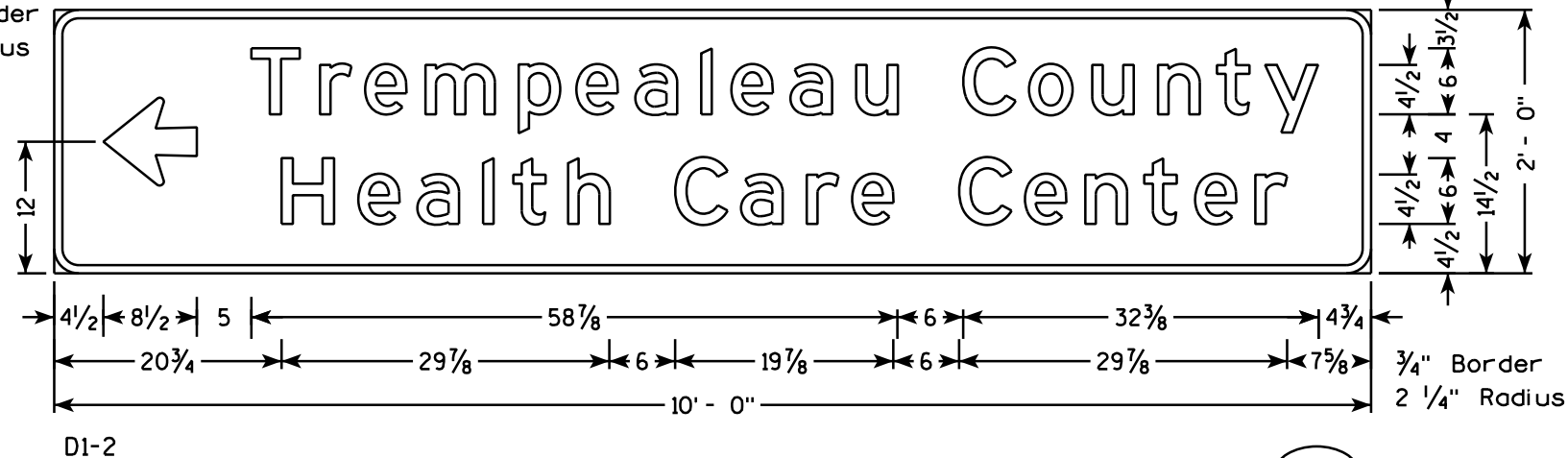
5-10



9-07



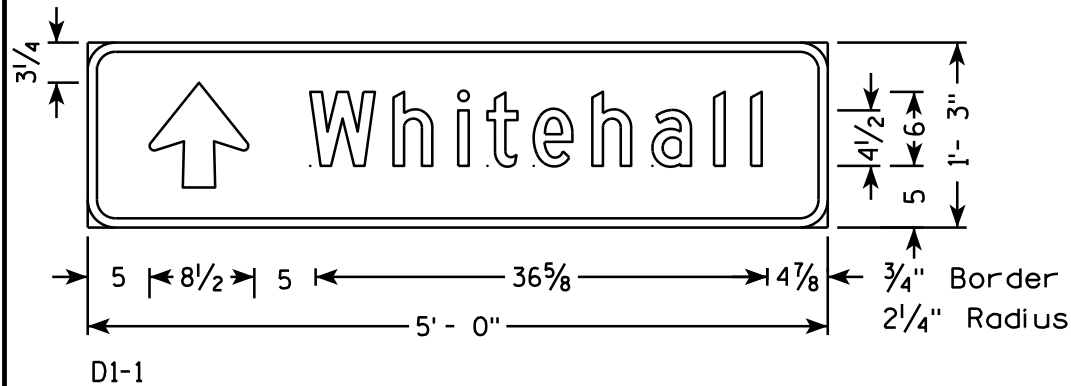
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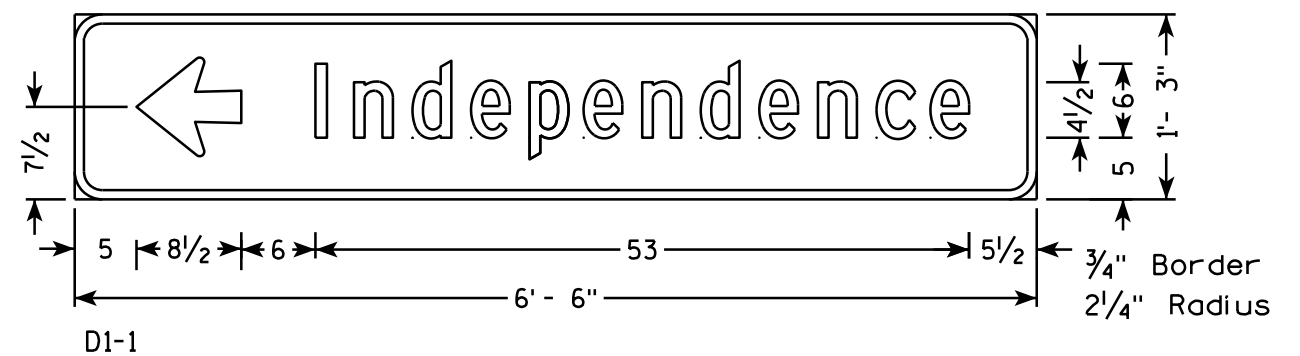
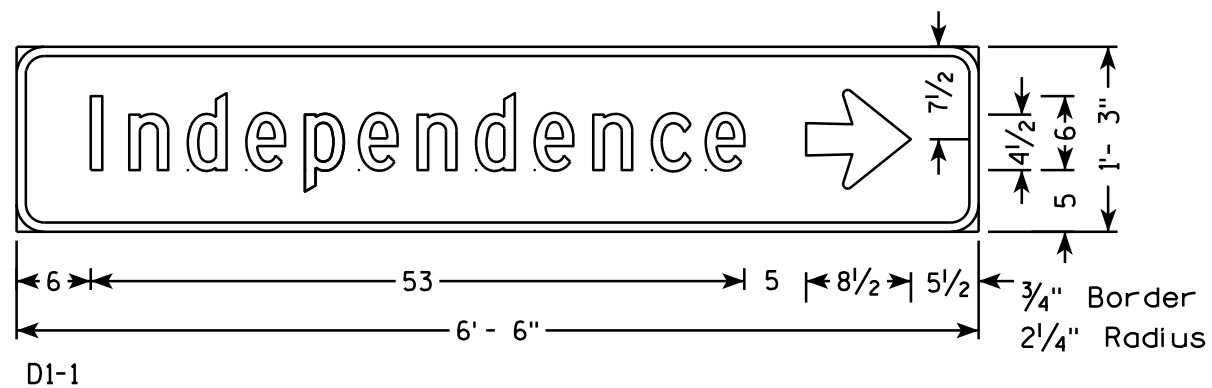
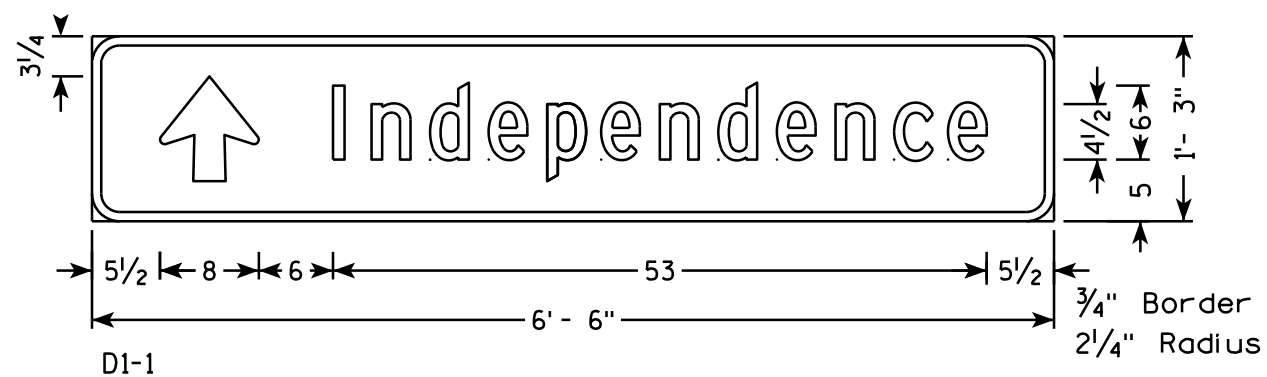
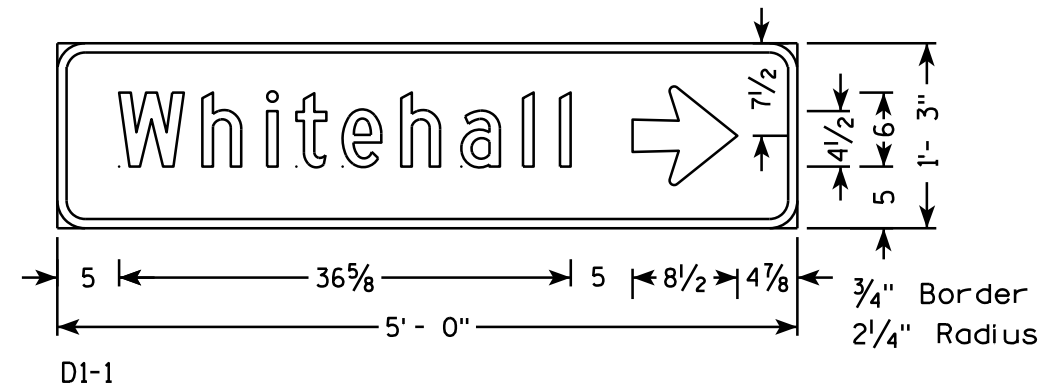
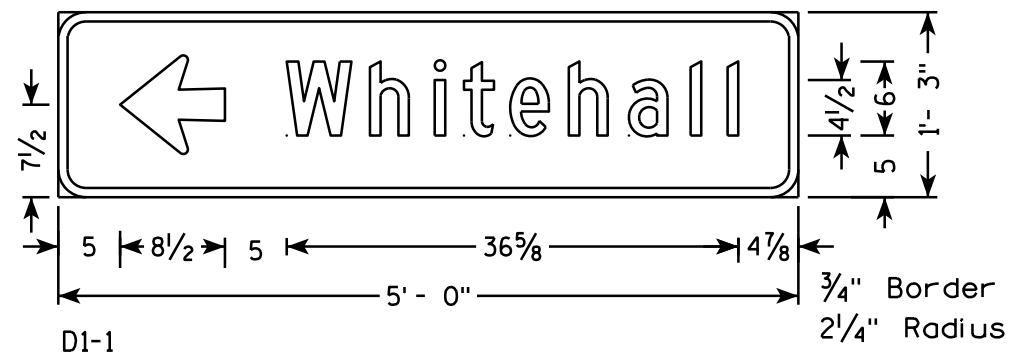
6-19

NOTES

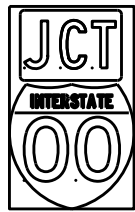
1. All Signs Type II - Type H Reflective
2. Color:
Background - GREEN
Message - WHITE
3. Message Series - E



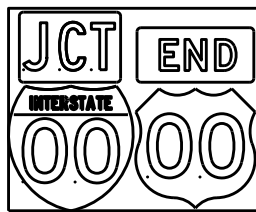
- NOTES**
1. All Signs Type II - Type F Reflective
 2. Color:
Background - ORANGE
Message - BLACK
 3. Message Series - D



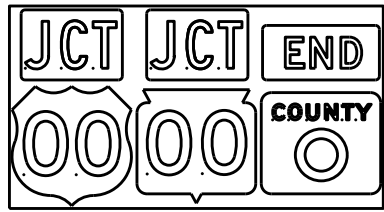
TYPICAL ASSEMBLIES



J1-1



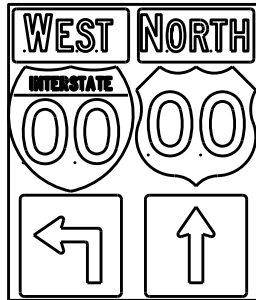
J1-2



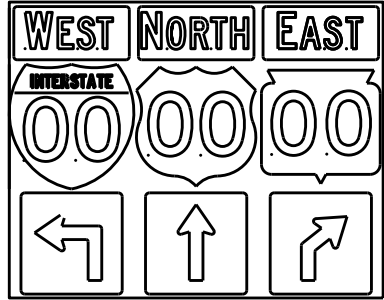
J1-3



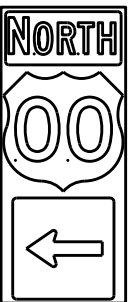
J2-1



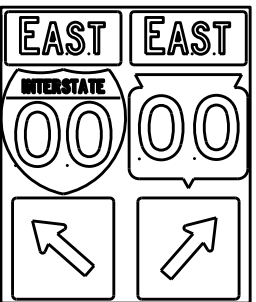
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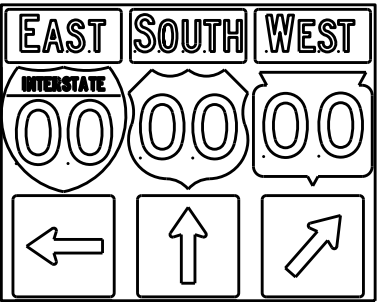
J2-3



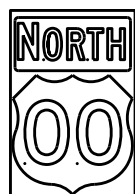
J3-1



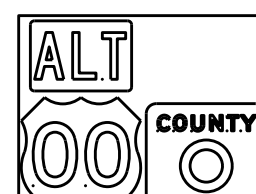
J3-2



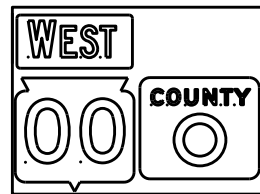
J3-3



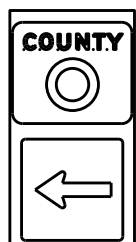
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1

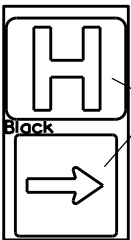


J22-1



JV

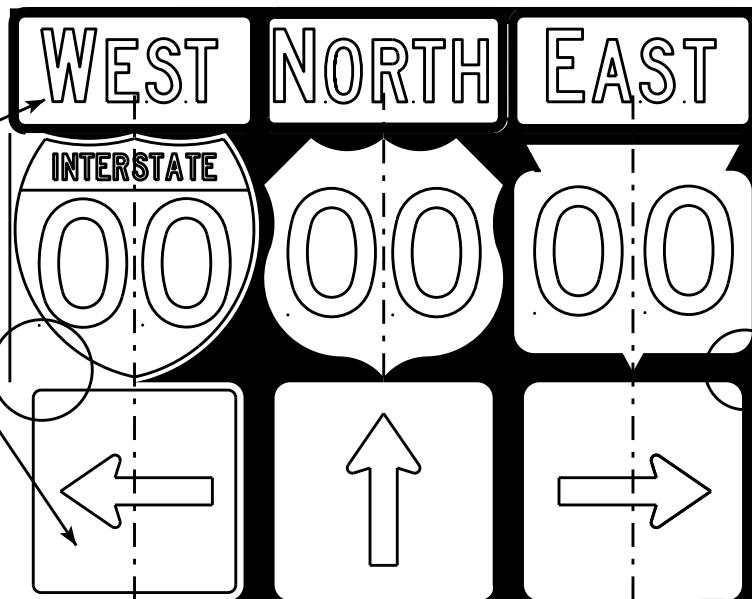
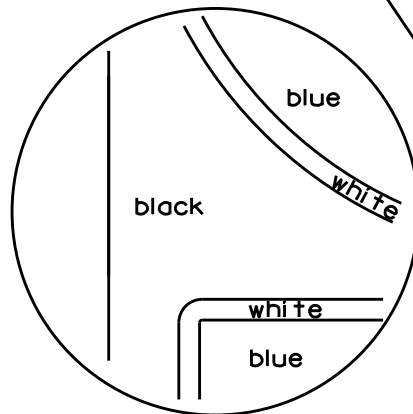
(Typical Vertical J-Assembly
See Note 10 and 11)



JH-1

Blue Background

[blue background
with interstate]



[black background]

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 2/06/14 PLATE NO. A2-1S.8

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 inches (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.

PROJECT NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN

PLOT DATE : 06-FEB-2014 14:10

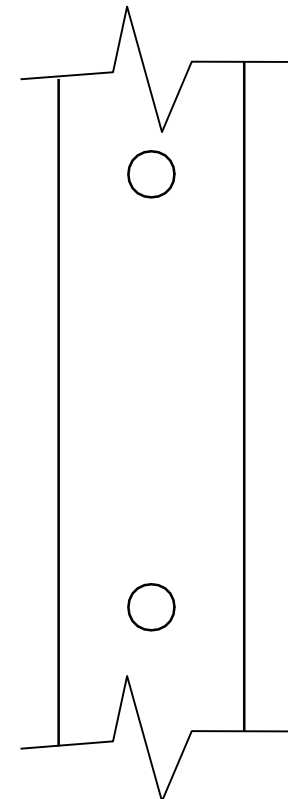
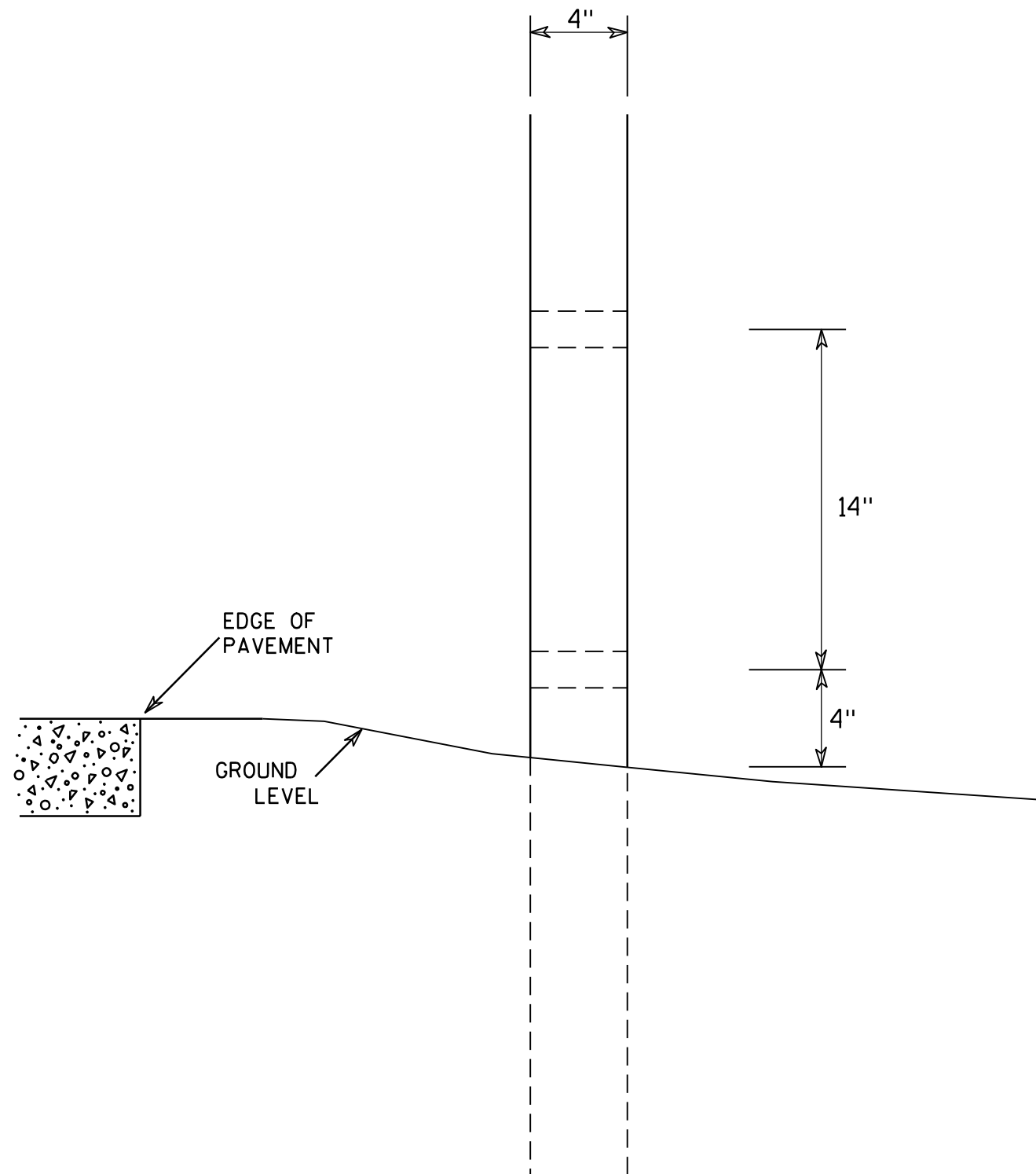
PLOT BY : mscs.ja

PLOT NAME :

SHEET NO:

E

WISDOT/CADDs SHEET 42



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1 1/2" diameter holes drilled perpendicular to the roadway centerline.

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:

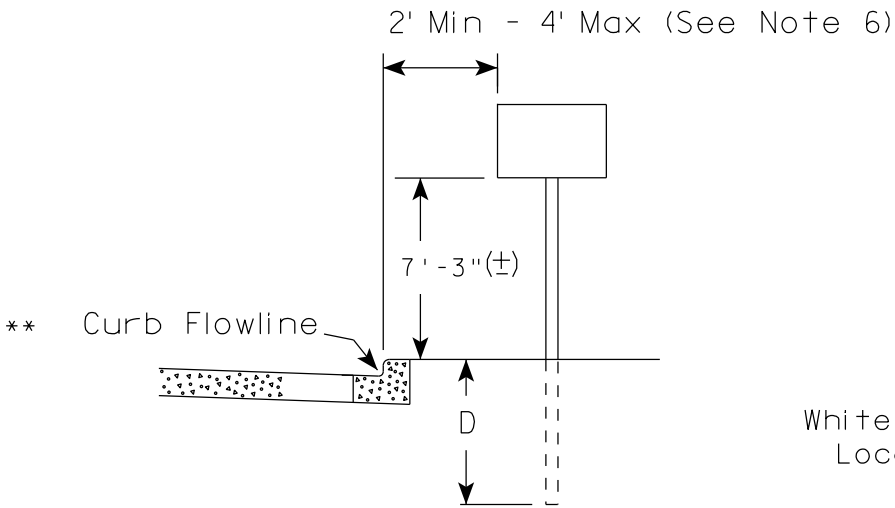
HWY:

COUNTY:

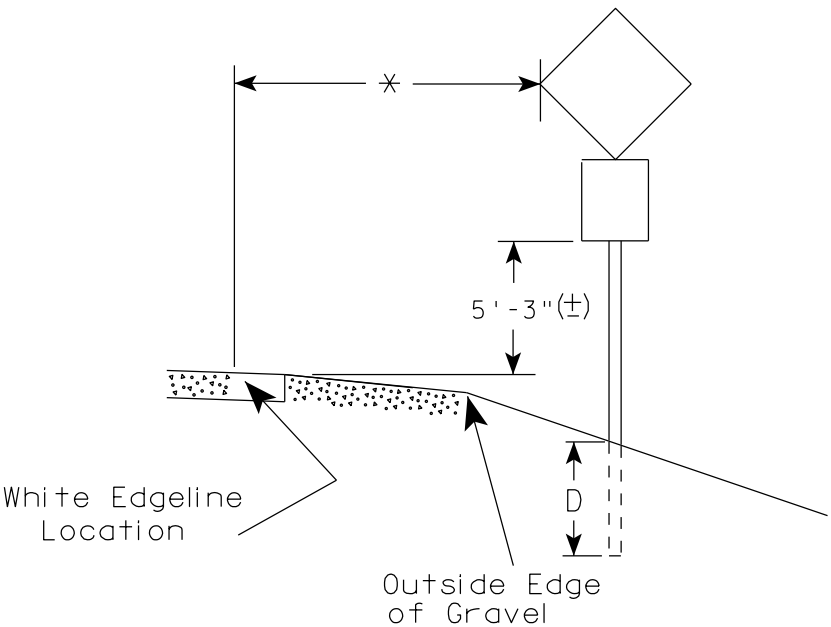
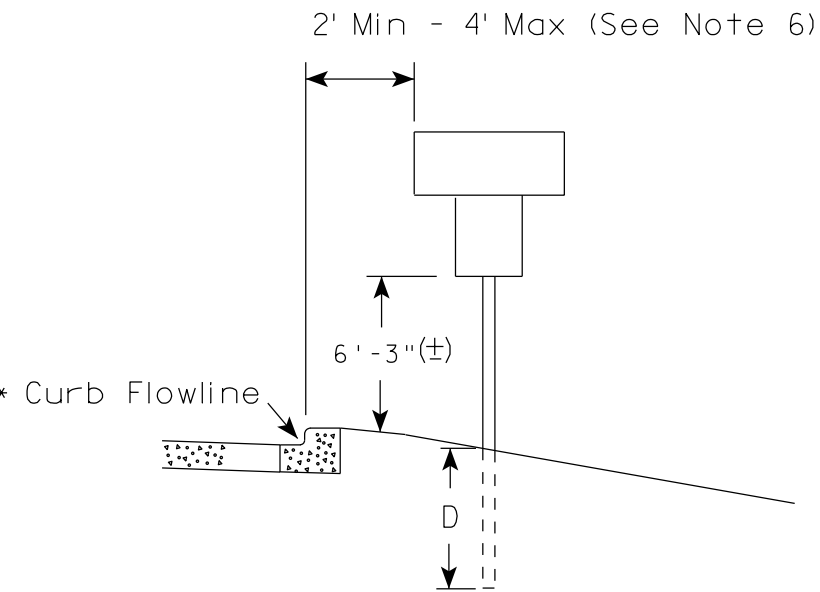
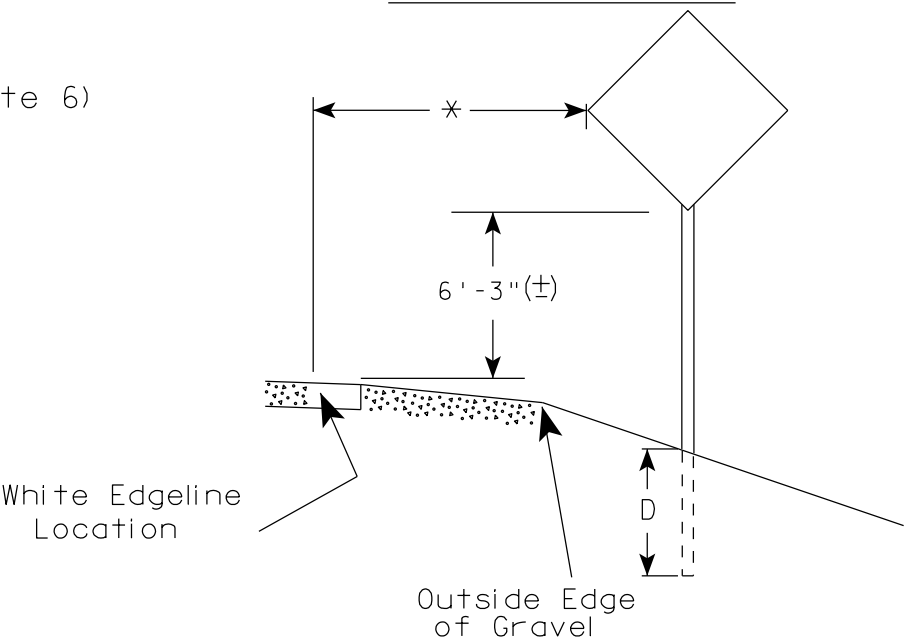
SHEET NO:

E

URBAN AREA



RURAL AREA (See Note 2)



GENERAL NOTES

1. Signs wider than 4 feet, 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 (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series) & End of Rod Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

×× 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.

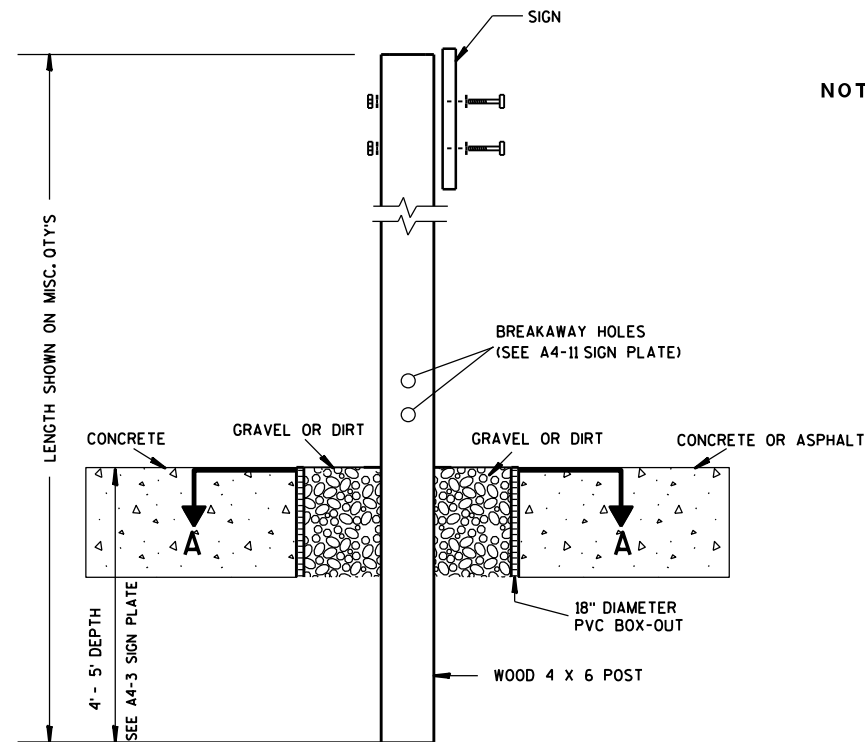
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

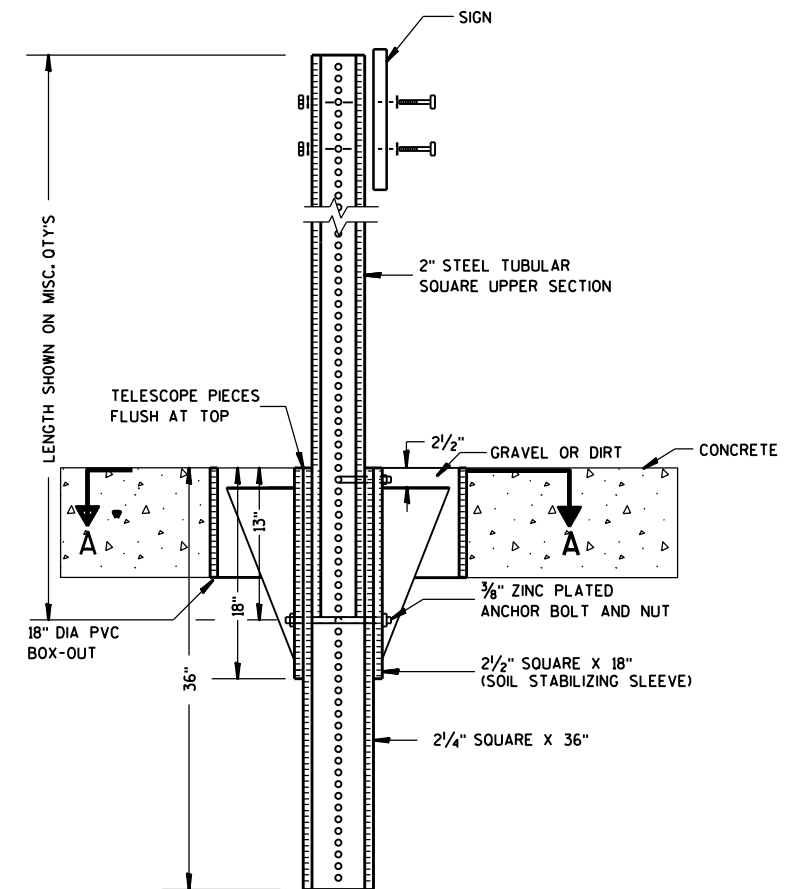
DATE 9/30/13 PLATE NO. A4-3.18



ELEVATION VIEW

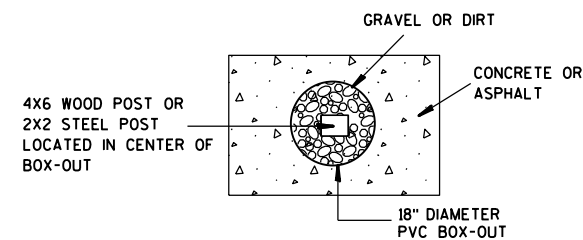
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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

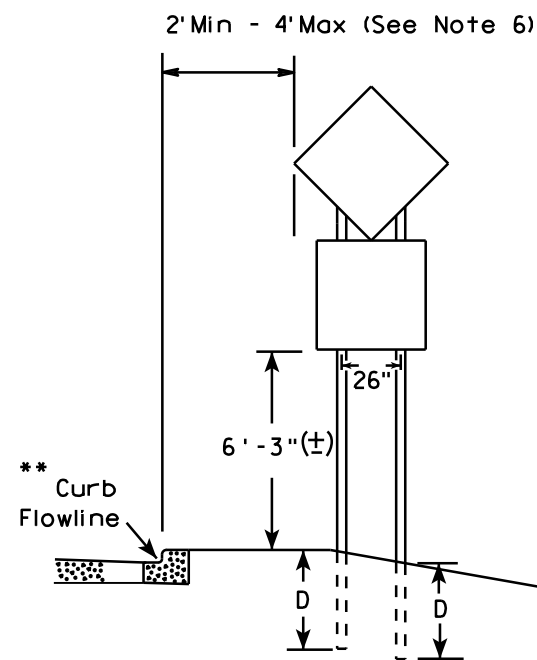
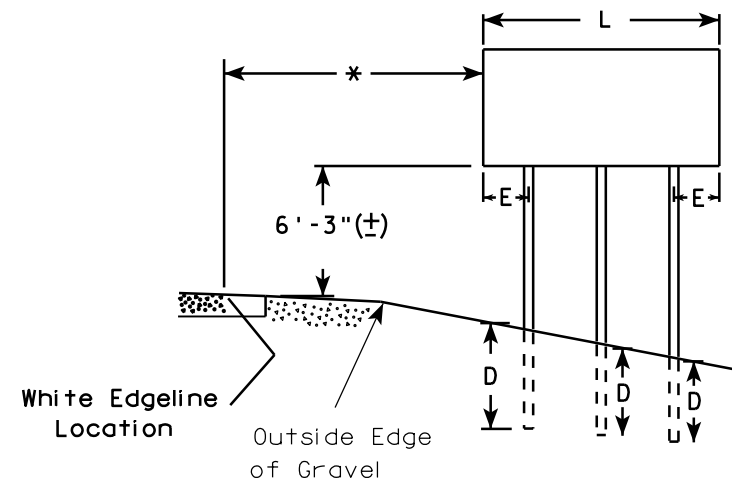
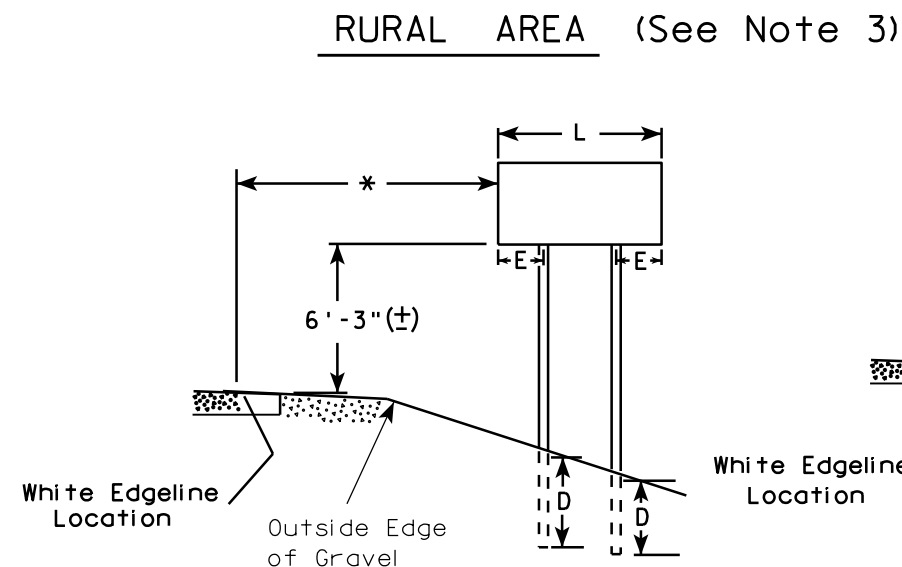
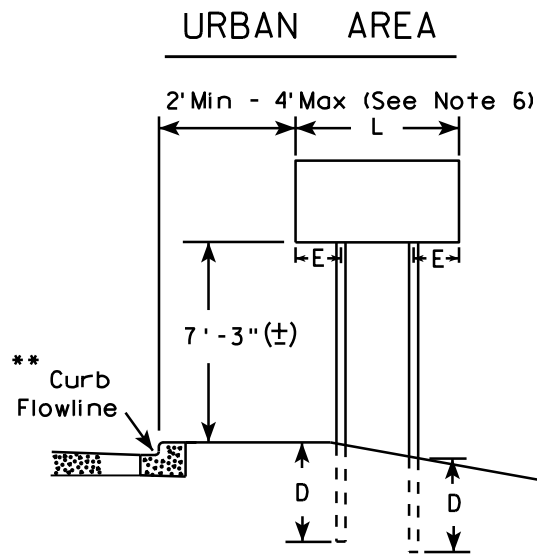
PROJECT NO:

HWY:

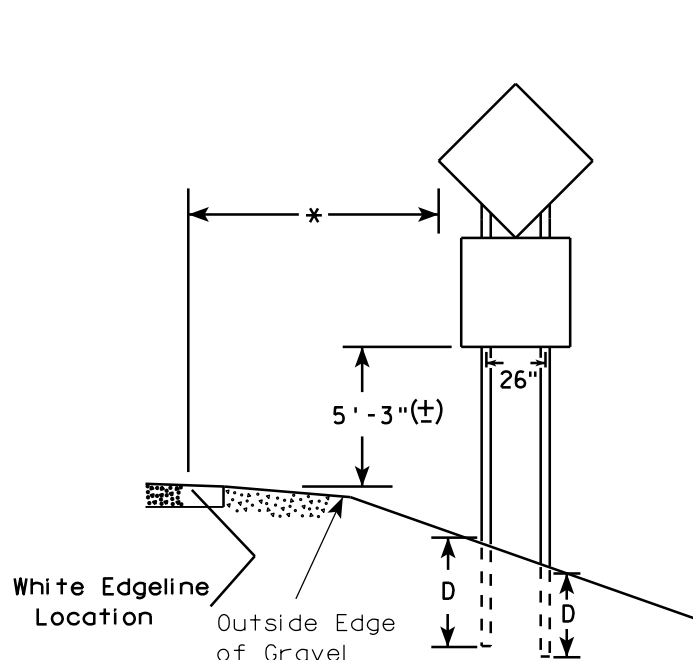
COUNTY:

SHEET NO:

E



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 (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
 7. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width or 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 4/29/14 PLATE NO. A4-4.13

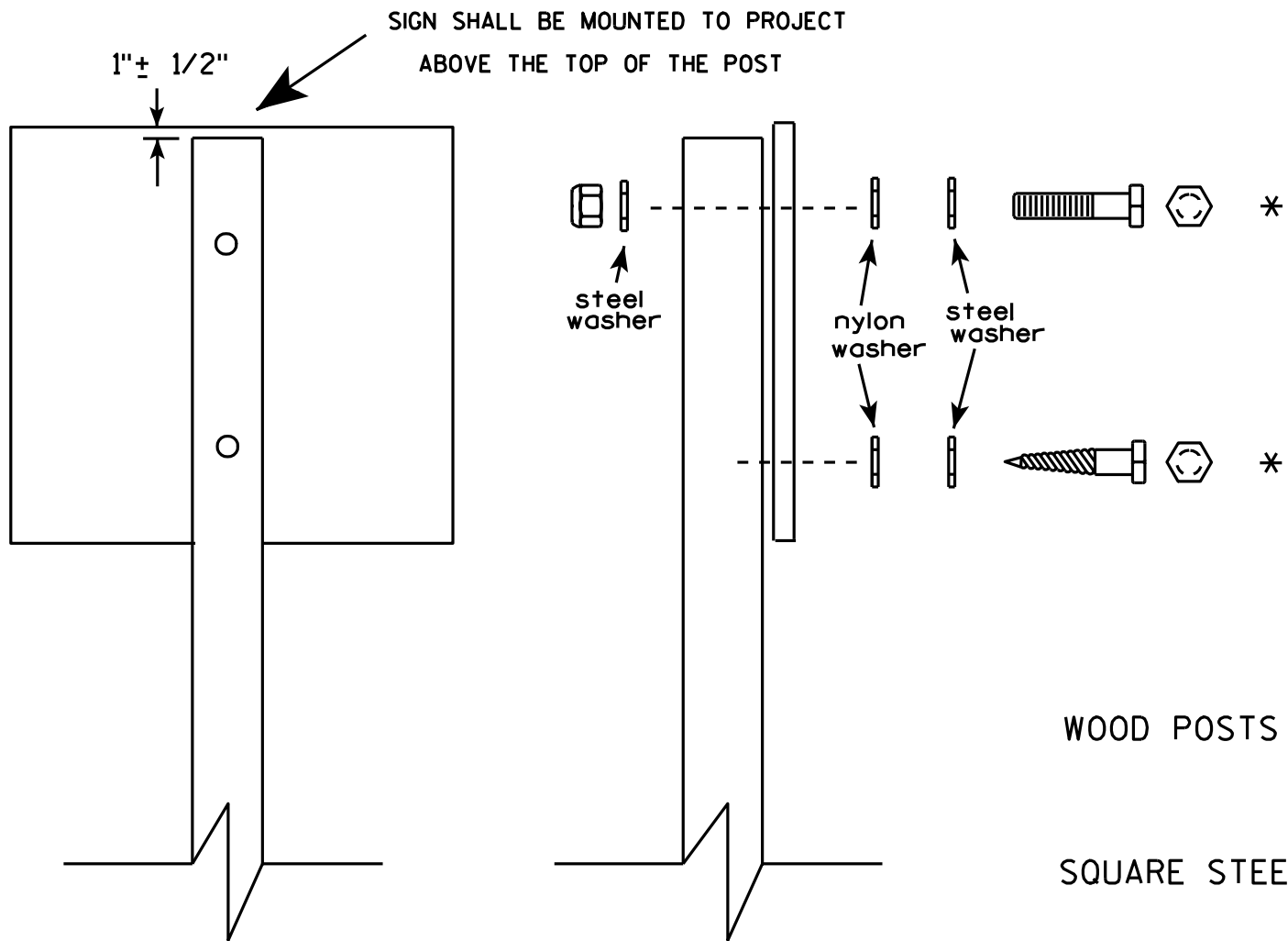
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

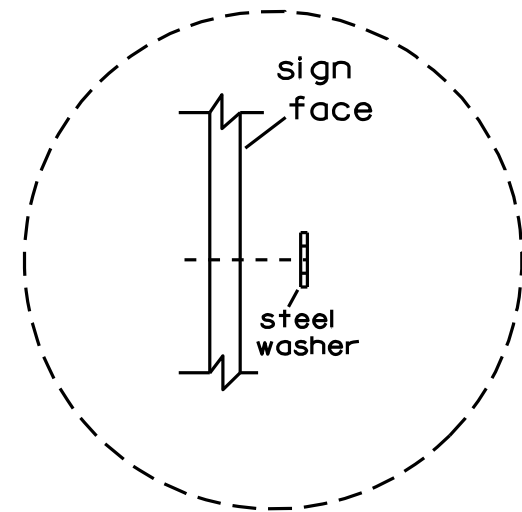


Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts
- SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
- WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.

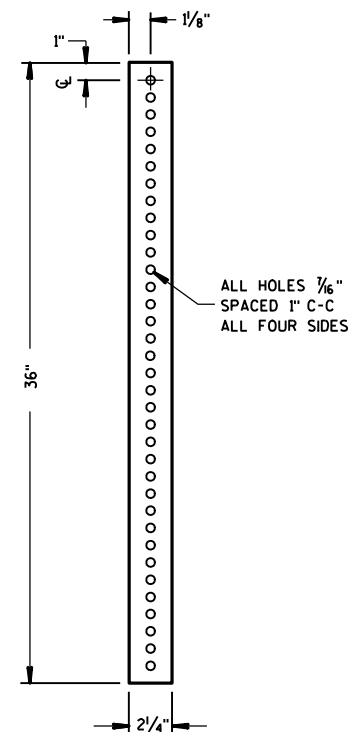


Washer Placement when Sign Has Other Than Type H or Type F Face

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 3/23/10	PLATE NO. A4-8.7

**2 1/4" SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH**



LENGTH SHOWN ON MISC. QTY'S

81

81

SIGN

SEE SIGN PLATE A4-8 FOR BOLT WASHER, & NUT MATERIAL

2" STEEL TUBULAR SQUARE UPPER SECTION

ALL HOLES $\frac{7}{16}$ " SPACED 1" C-C ALL FOUR SIDES

TELESCOPE PIECES FLUSH AT TOP

$\frac{3}{8}$ " ZINC PLATED CORNER ANCHOR BOLT AND NUT

$2\frac{1}{2}$ " GRAVEL OR DIRT

18" DIA PVC BOX-OUT

13"

18"

36"

$\frac{3}{8}$ " ZINC PLATED ANCHOR BOLT AND NUT

$2\frac{1}{2}$ " SQUARE X 18" (SOIL STABILIZING SLEEVE)

$2\frac{1}{4}$ " SQUARE X 36"

LENGTH SHOWN ON MISC. QTY'S

TELESCOPE PIECES FLUSH AT TOP

1"

12"

18"

36"

2" STEEL TUBULAR SQUARE UPPER SECTION

ALL HOLES $\frac{7}{16}$ " SPACED 1" C-C ALL FOUR SIDES

$\frac{3}{8}$ " ZINC PLATED CORNER ANCHOR BOLT AND NUT

1"

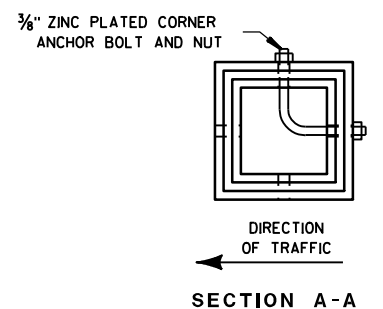
$\frac{3}{8}$ " ZINC PLATED ANCHOR BOLT AND NUT

$2\frac{1}{2}$ " SQUARE X 18" (SOIL STABILIZING SLEEVE)

$2\frac{1}{4}$ " SQUARE X 36"

SIGN

SEE SIGN PLATE A4-B FOR BOLT WASHER, & NUT MATERIAL



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

DATE 5/30/12 PLATE NO. A4-9.7

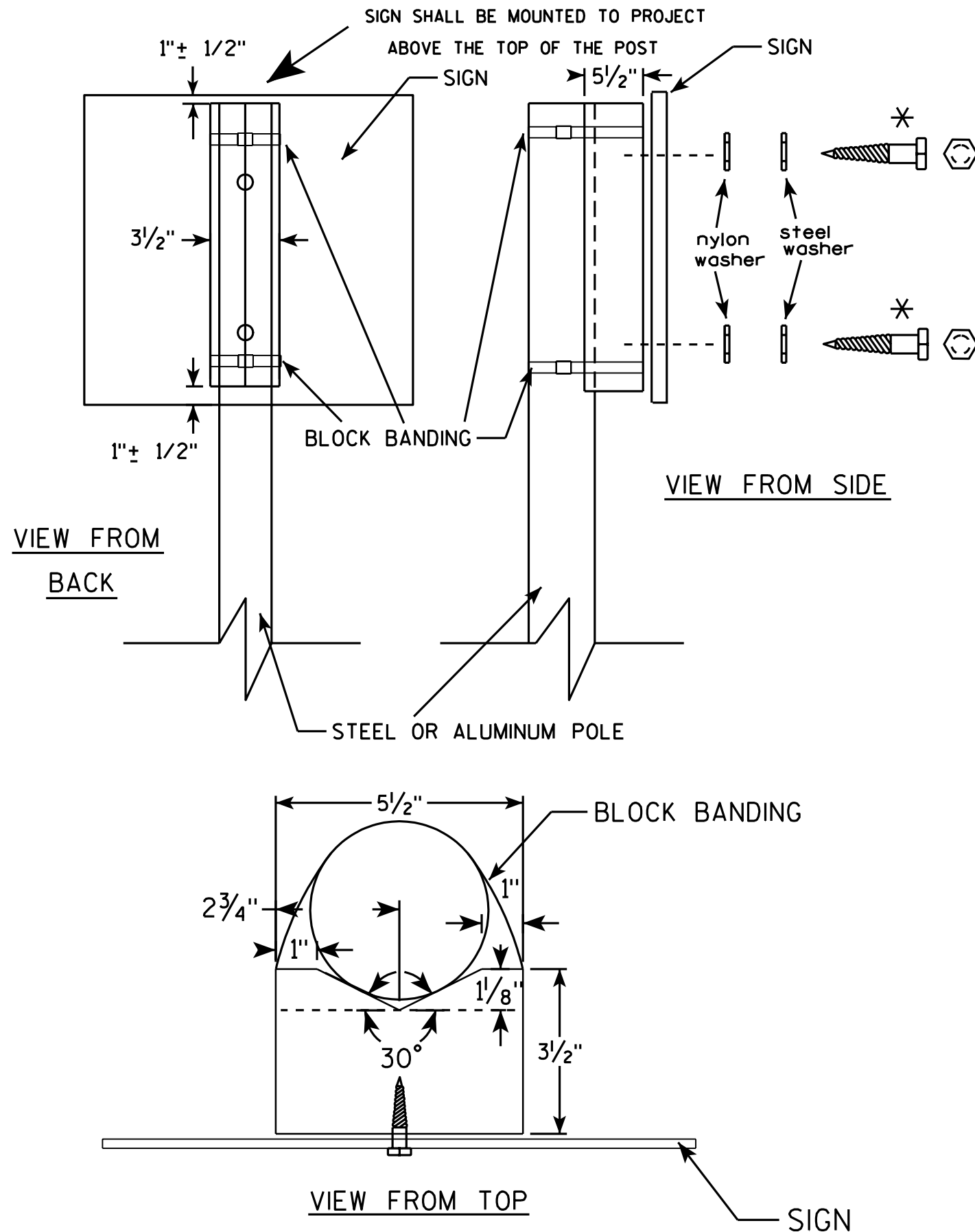
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

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, 3/4" 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 NORMALLY 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 1 1/4" O.D. X 3/8" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1 1/4" O.D. X 3/8" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✱ LAG BOLTS SHALL BE 3/8" X 2 1/2"

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

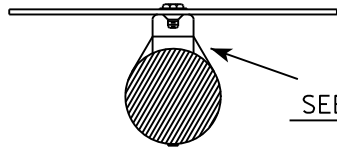
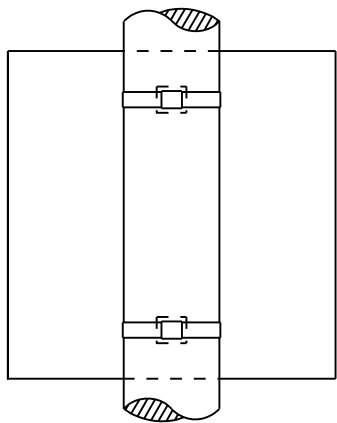
PROJECT NO:

SHEET NO:

E

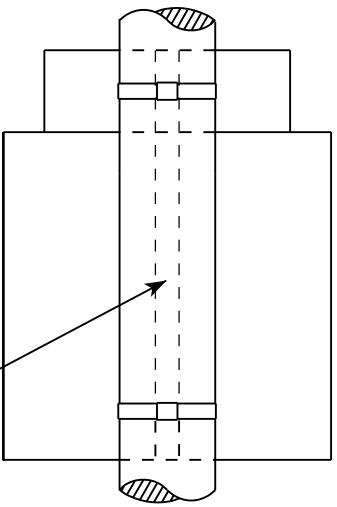
BANDING

SINGLE SIGN

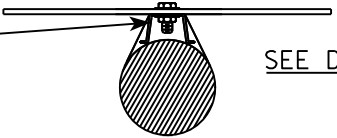


SEE DETAIL A

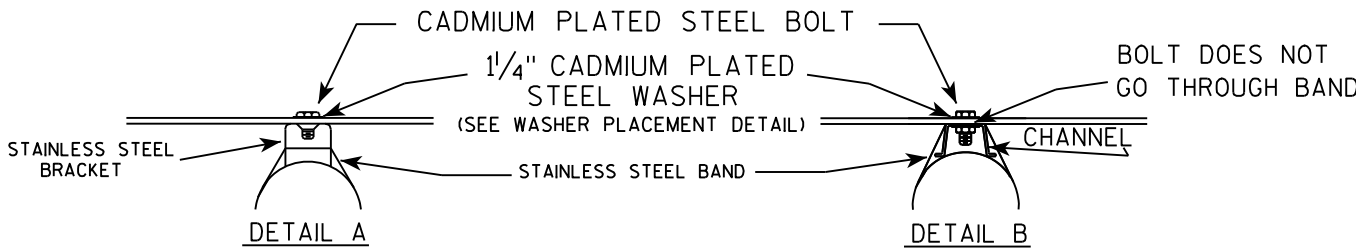
"J" ASSEMBLY



CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET



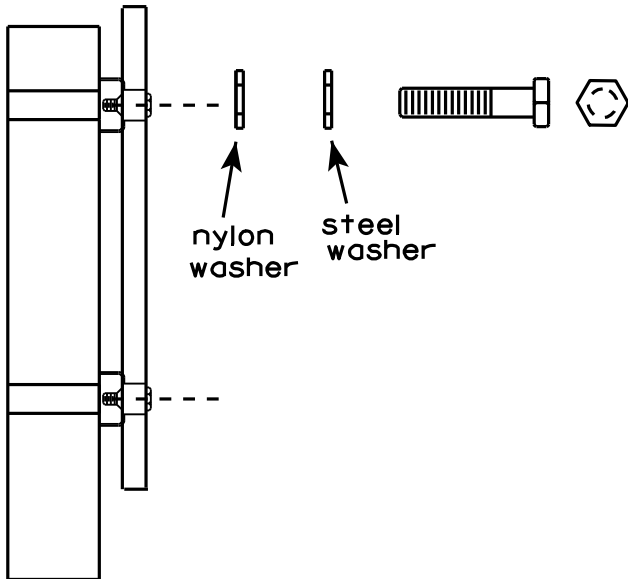
SEE DETAIL B



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 $\frac{3}{4}$ " in width and 0.025" thickness.

WASHER PLACEMENT



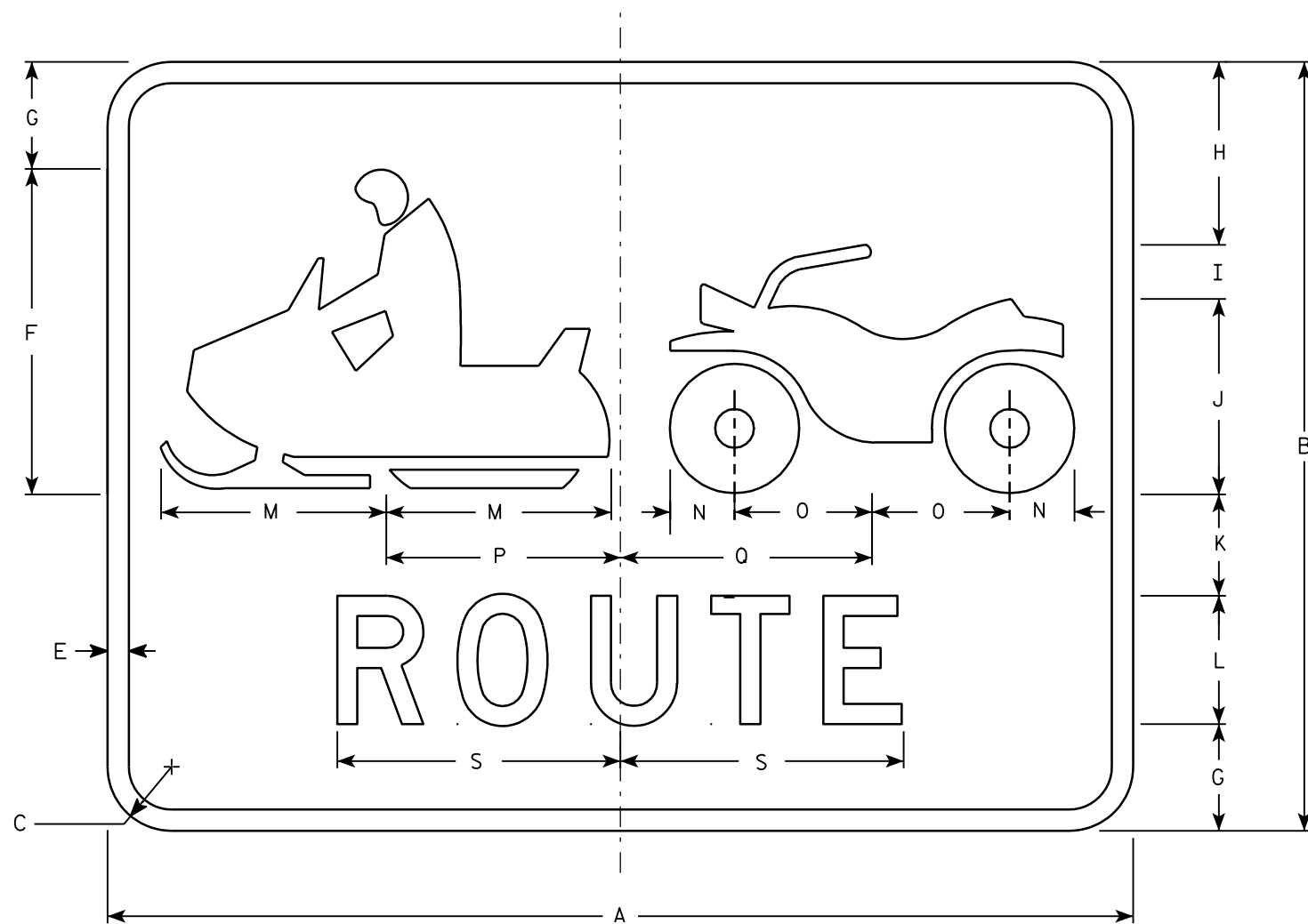
WASHERS (ALL POSTS) -
1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL
1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Green
Message - White - Type H Reflective
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.

7

Metric equivalent
for this sign is:

SIZE	
1	
2	600 mm X 450 mm
3	
4	
5	

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 m ²
1																												
2	24	18	1 1/2		1/2	7 5/8	2 1/2	4 1/4	1 1/4	4 5/8	2 3/8	3	5 1/4	1 1/2	3 1/4	5 1/2	5 7/8		6 5/8								3.0	.28
3																												
4																												
5																												

PROJECT NO:

STANDARD SIGN

D11-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Christa J. Spang
for State Traffic Engineer

DATE 1/16/02

PLATE NO. D11-8.2

SHEET NO:

E

7

Metric equivalent
for this sign is:

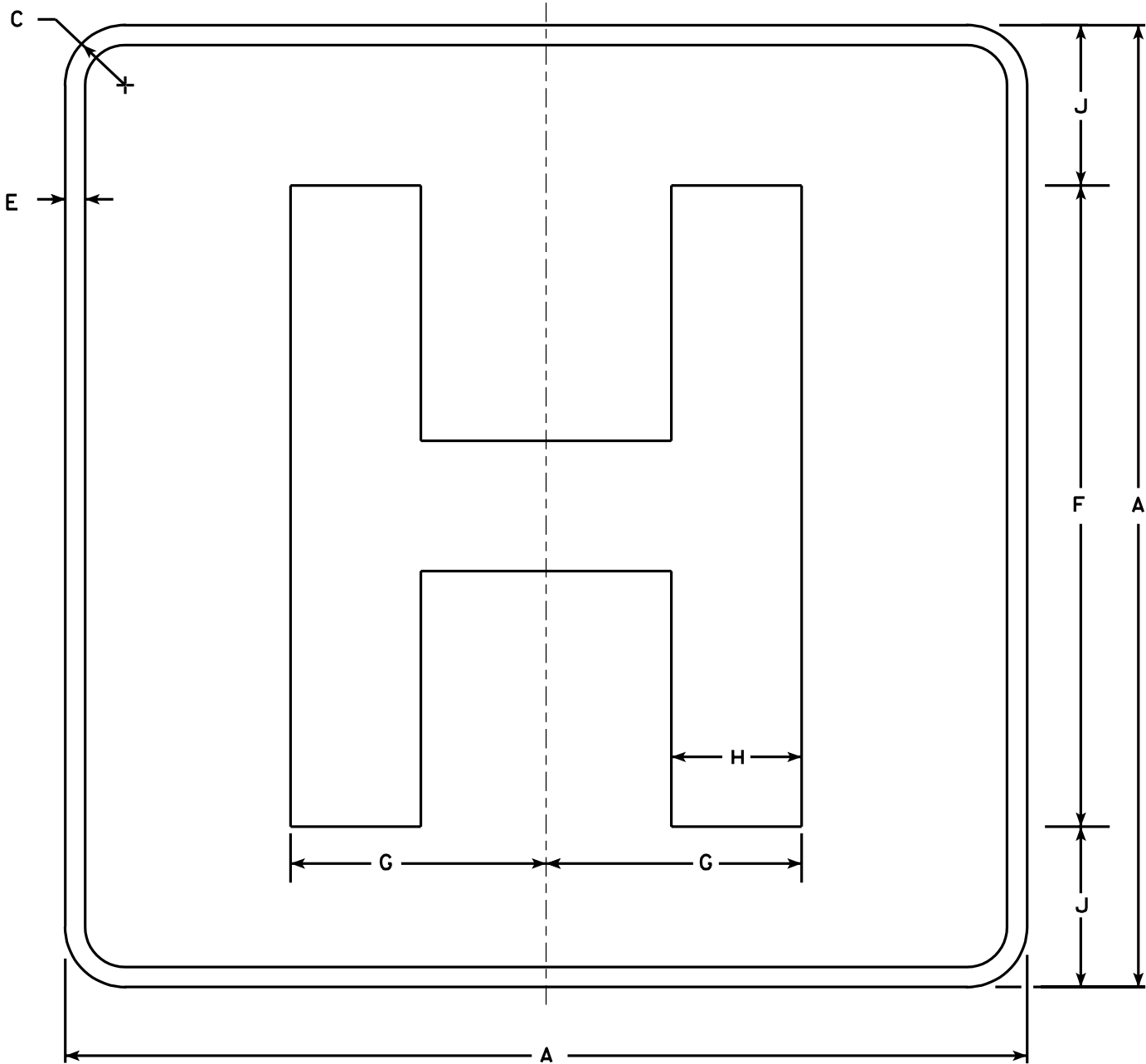
SIZE	
1	450 mmX 450 mm
2	600 mmX 600 mm
3	900 mmX 900 mm
4	X
5	X

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		1/2	12	4 3/4	2 3/8		3																	4.0
2	24		1 1/2		1/2	16	6 3/8	3 1/4		4																	4.0
3	36		2 1/4		3/4	24	9 1/2	4 7/8		6																	9.0
4																											
5																											

PROJECT NO:

SHEET NO:

E



D9-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Blue
Message - White - Type H Reflective
3. Message Series - E Modified
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.

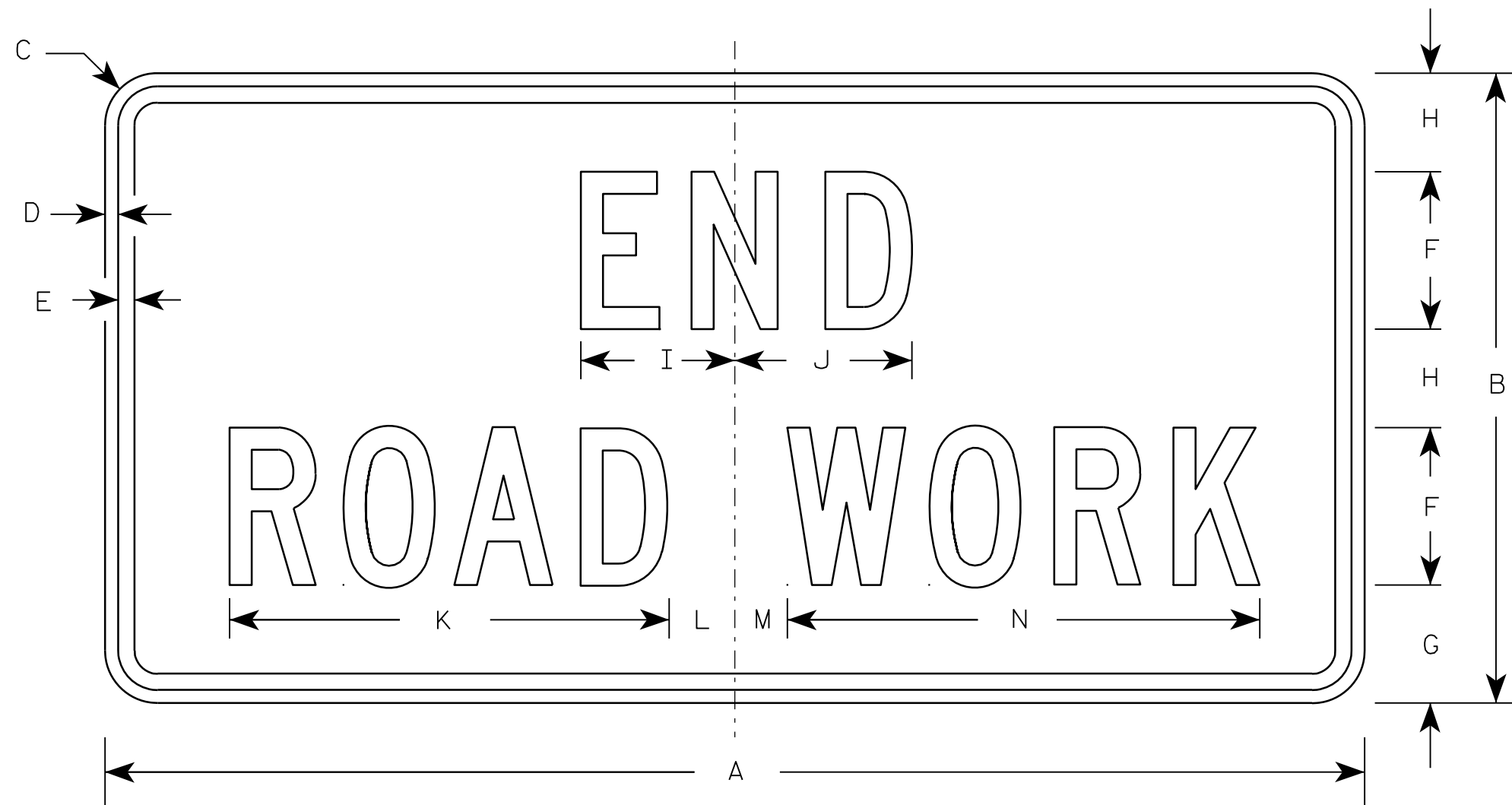
STANDARD SIGN
D9-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Chester J. Spang
for State Traffic Engineer

DATE 1/15/02 PLATE NO. D9-2.4

7



G20-2A

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 sq. m
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

NOTES

- Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Orange
Message - Black
- Message Series - C
- 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.

7

PROJECT NO:

HWY:

COUNTY:

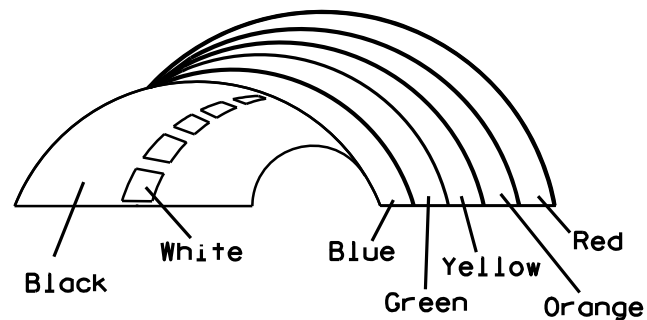
SHEET NO:

E



* VARIES

Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

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 - (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. Border - Blue
Line 1 - Red
Line 2 - Black
Line 3-5 - Blue
6. Line 1 - Dutch 8011L
Line 2 - Series E
Line 3-5 - Series C
7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign 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																											
2	30	36	1 1/2	1/2	5/8	3	2	3 1/2	2 7/8	1	8	2 1/8	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2							7.5
3																											
4																											
5																											

PROJECT NO:	HWY:	COUNTY:	SHEET NO:
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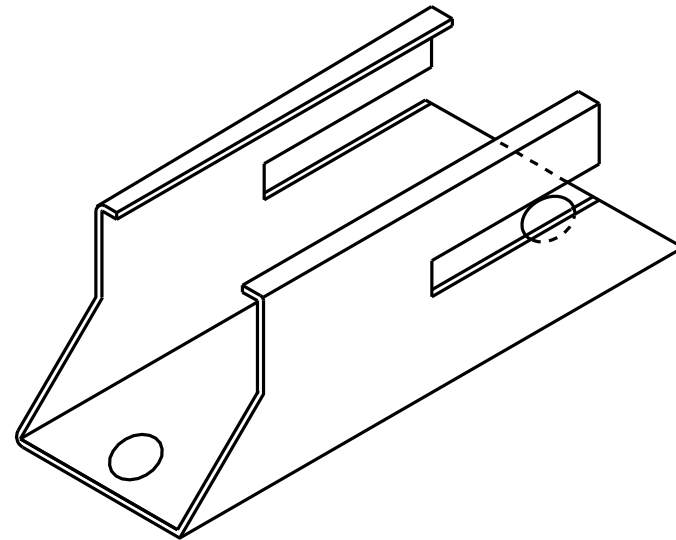
STANDARD SIGN
I55-56

WISCONSIN DEPT OF TRANSPORTATION

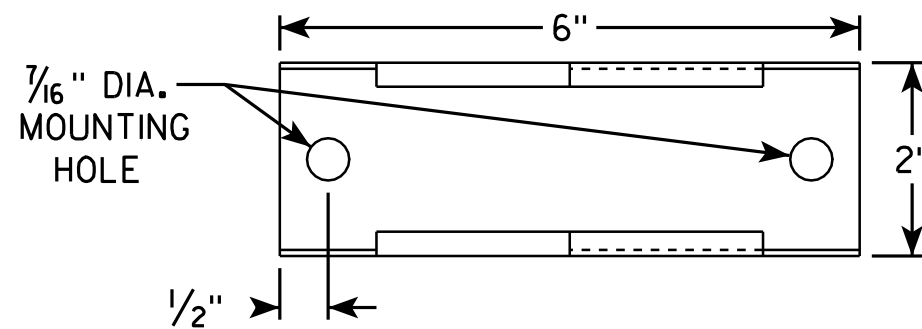
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 4/27/11 PLATE NO. I55-56.3

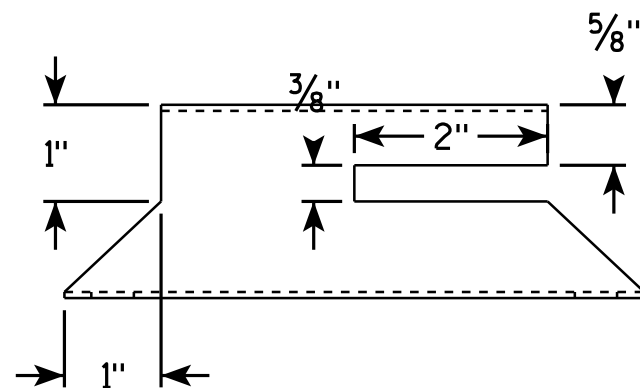
ISOMETRIC VIEW



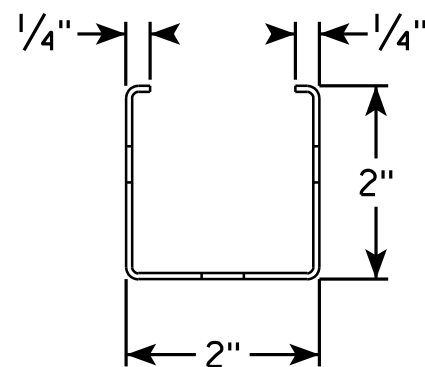
TOP VIEW



SIDE VIEW



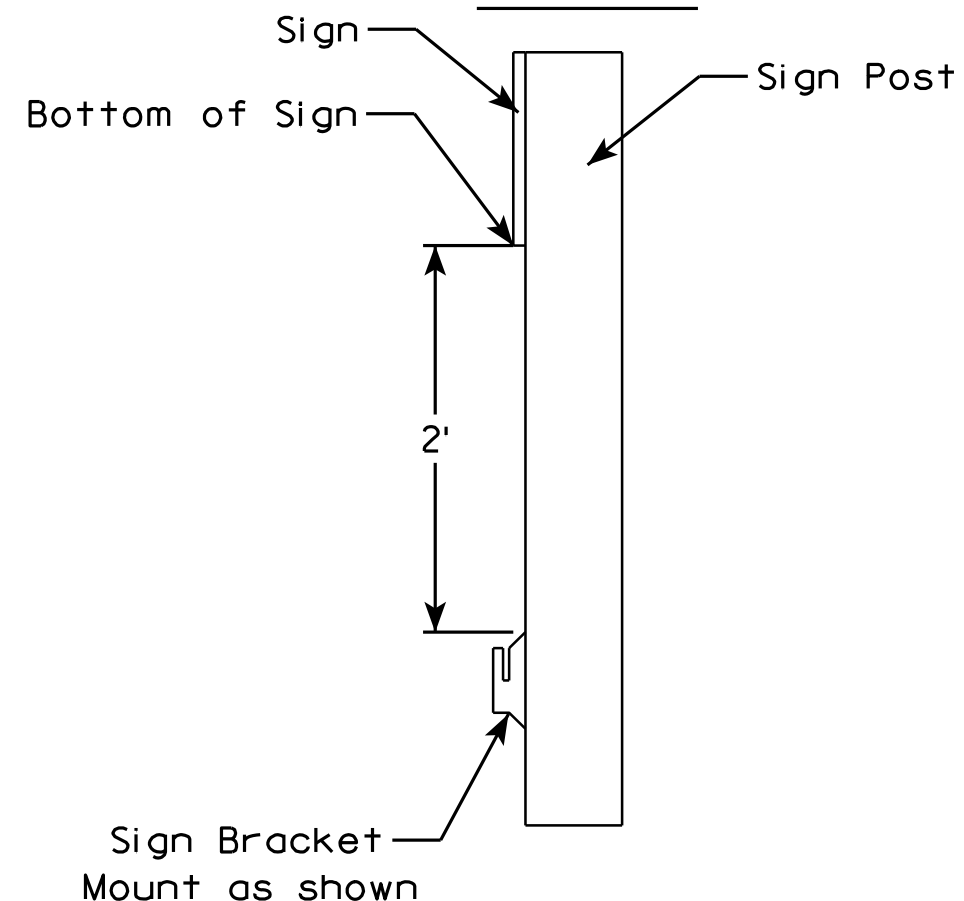
END VIEW



NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 2/5/10 PLATE NO. I55-56B.1

PROJECT NO:

HWY:

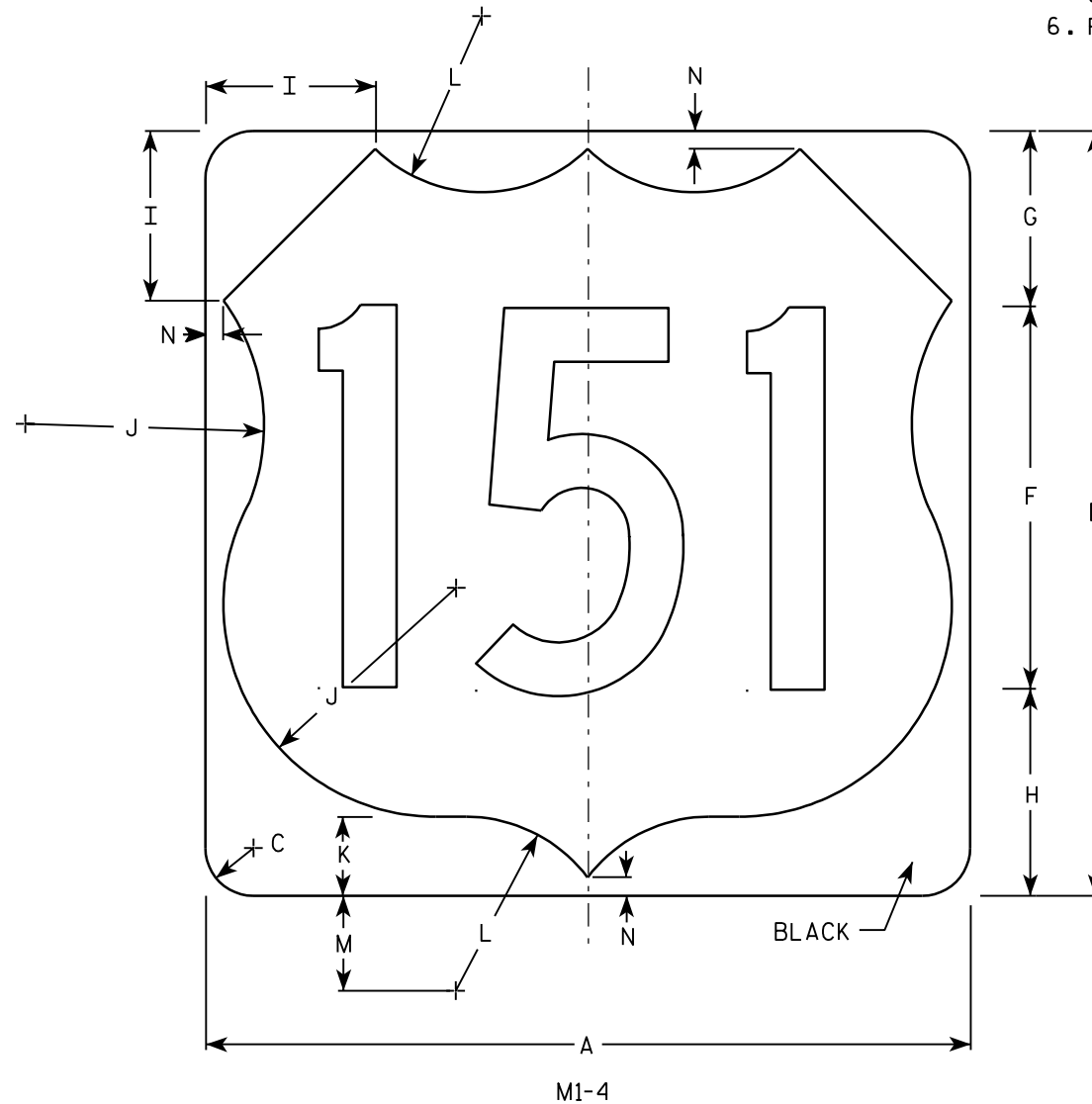
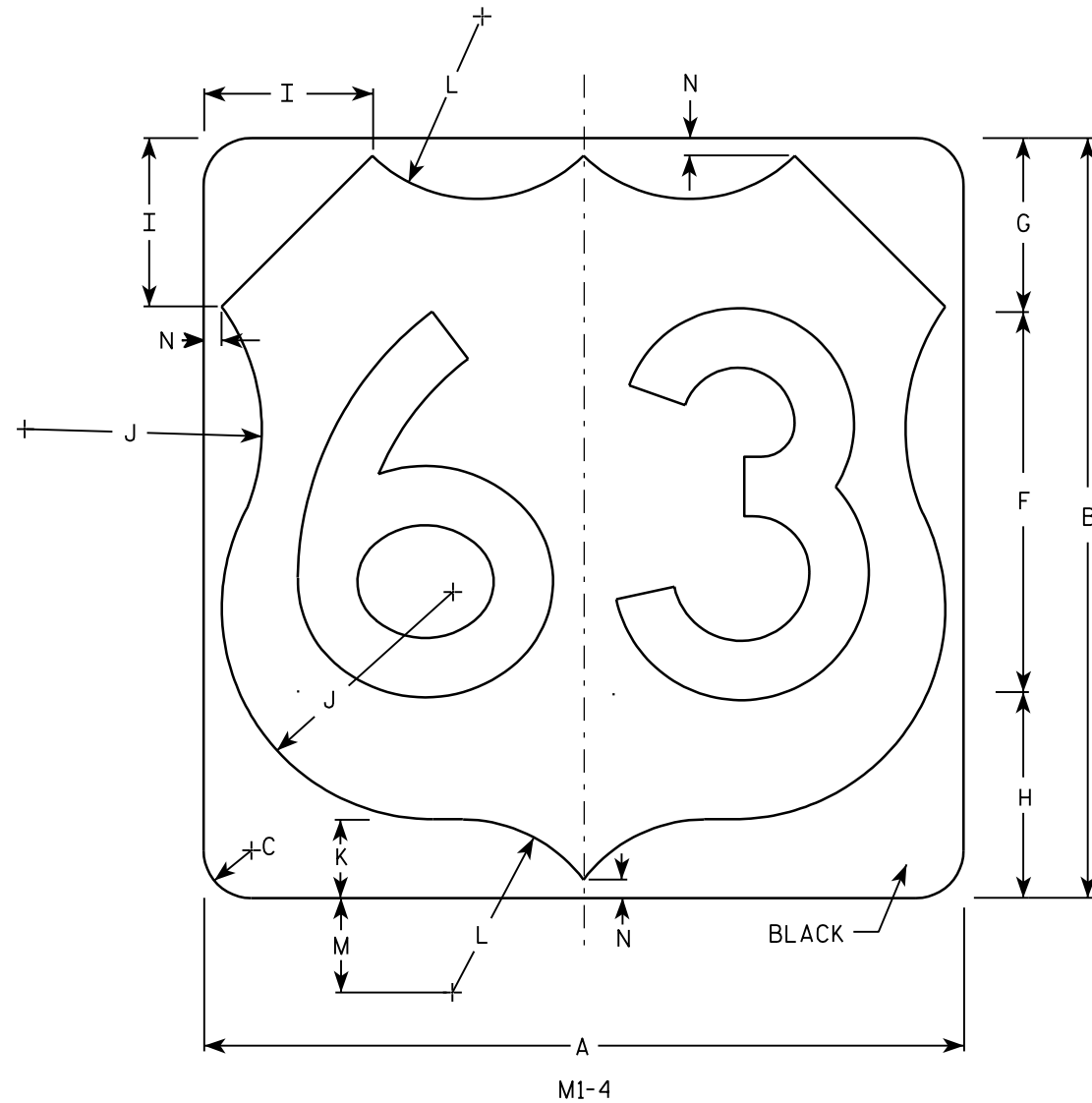
COUNTY:

SHEET NO:

E

NOTES

1. Sign is Type II - See Note 6 - reference
WIS DOT Standard Specification for HIGHWAY
and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White & Black - See Note 6
Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base
material is plywood but borders shall be rounded
as shown. When base material is metal, the
corners and borders shall be rounded.
5. Substitute appropriate numerals and adjust
spacing as per Plate A10-1.
6. Permanent Signs
Background - Type H Reflective
Detour or other temporary signs
Background - Reflective



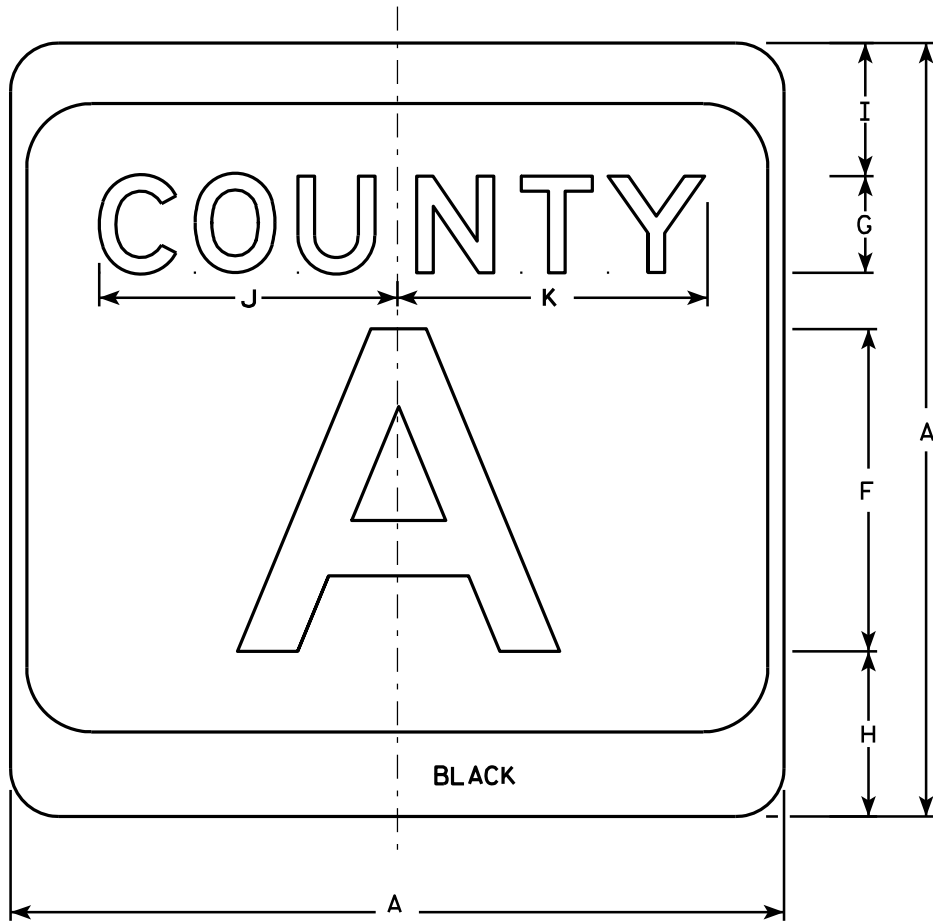
Metric equivalent
for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

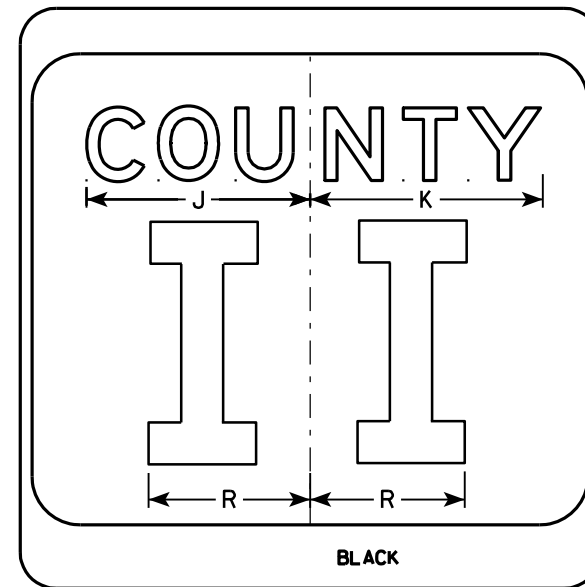
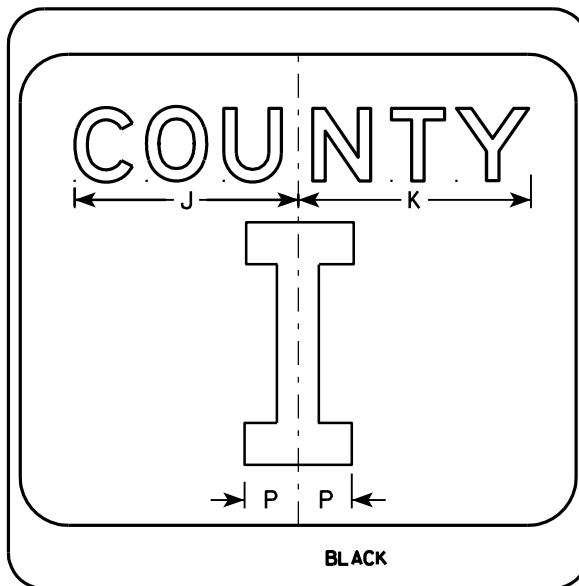
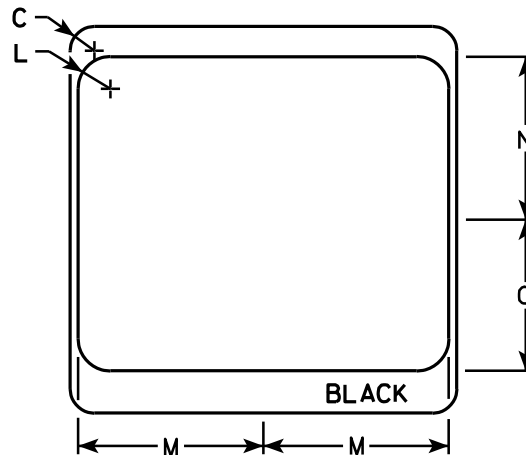
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Areq sq. ft.	Area m ²
1																												
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81

PROJECT NO: HWY: COUNTY: SHEET NO: E

7



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

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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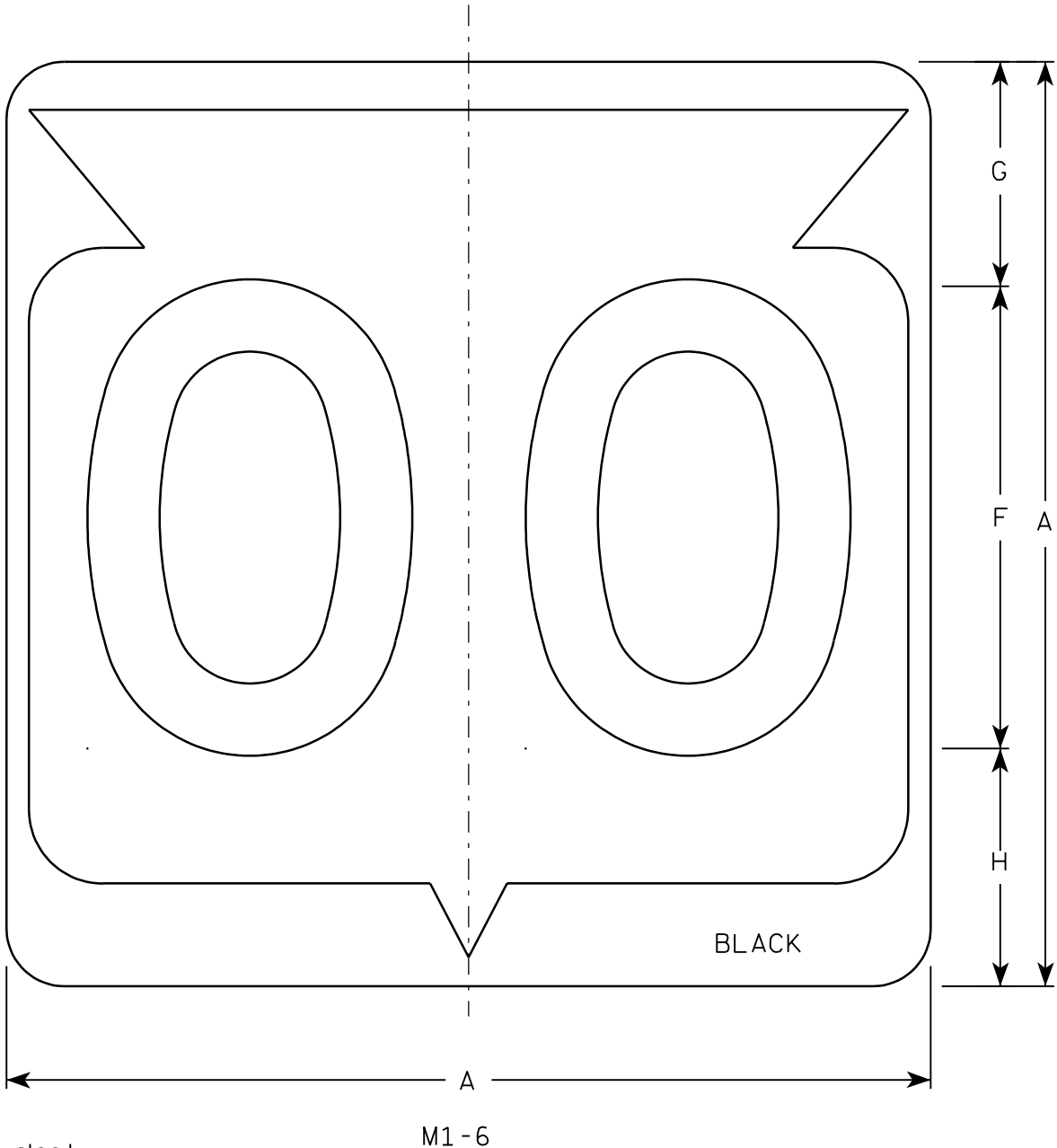
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

7



Metric equivalent
for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

PROJECT NO:

HWY:

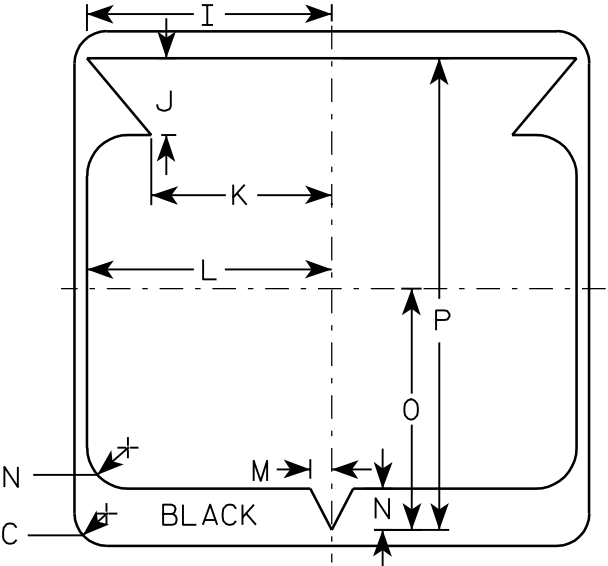
COUNTY:

SHEET NO:

E

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White & Black - See Note 6
Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective



STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

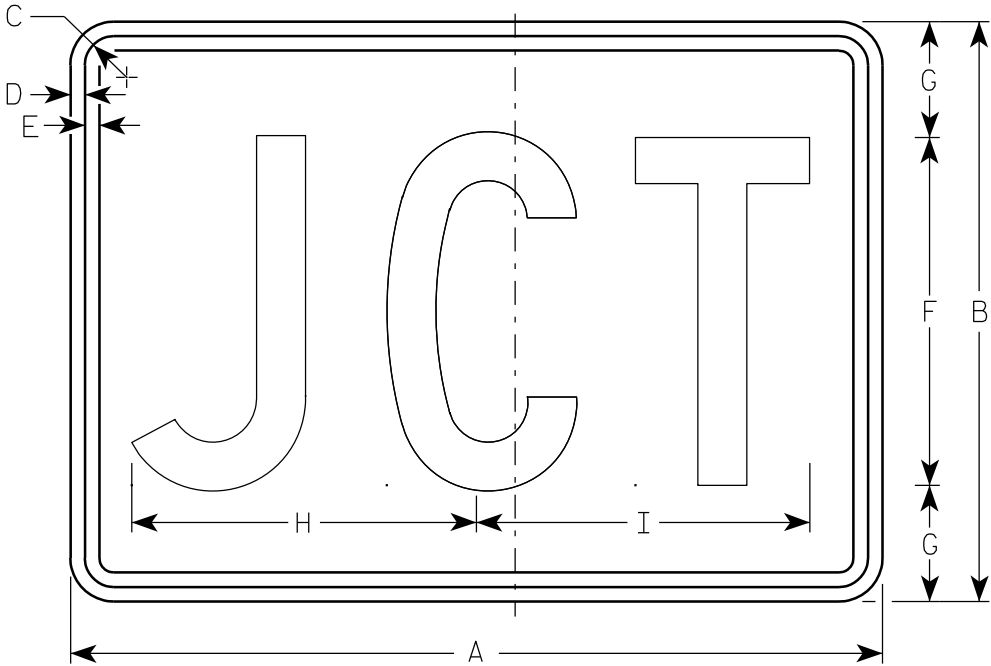
Chester J. Spang
for State Traffic Engineer

DATE 3/20/02

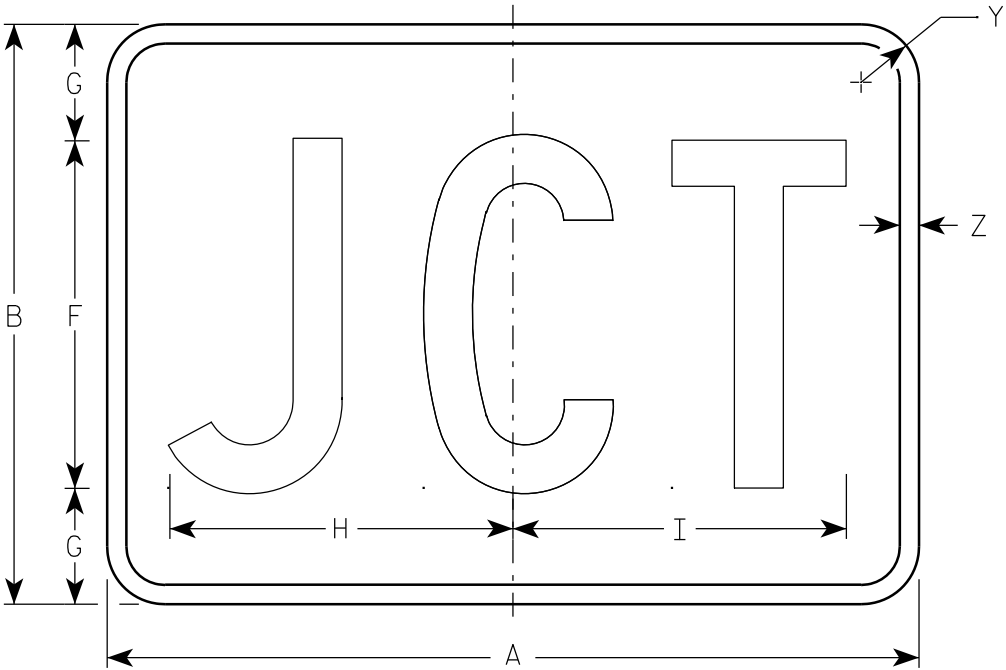
PLATE NO. M1-6.9

NOTES

1. Sign is Type II - See Note 5 - reference
WIS DOT Standard Specification for HIGHWAY
and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - See note 5
Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base
material is plywood but borders shall be rounded
as shown. When base material is metal, the
corners and borders shall be rounded.
5. M2-1 Background - White - Type H Reflective
(Detour or temporary Signs - Reflective)
Message - Black
MB2-1 Background - Blue
Message - White - Type H Reflective
(Detour or temporary Signs - Reflective)
MG2-1 Background - Green
Message - White - Type H Reflective
MK2-1 Background - Green
Message - White - Type H Reflective
MM2-1 Background - White - Type H Reflective
Message - Green
MN2-1 Background - Brown
Message - White - Type H Reflective
MR2-1 Background - Brown
Message - Yellow - Type H Reflective



M2-1
MK2-1
MM2-1
MR2-1



MB2-1
MG2-1
MN2-1

Metric equivalent
for this sign is:

SIZE	
1	
2	525 mm X 375 mm
3	750 mm X 525 mm
4	750 mm X 525 mm
5	750 mm X 525 mm

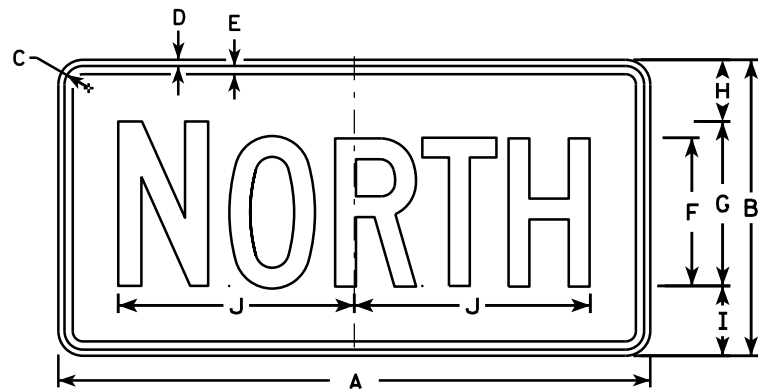
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20	0.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.20
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.20
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.20

STANDARD SIGN
M2-1

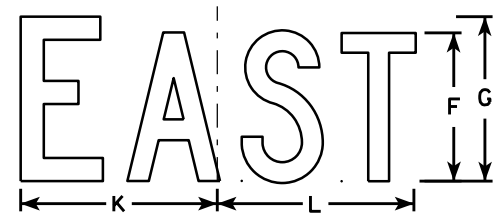
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

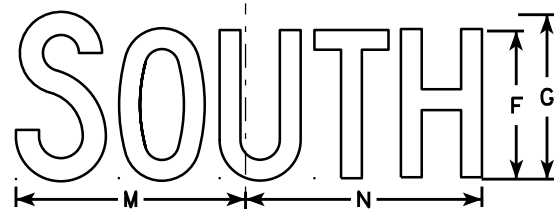
DATE 3/16/10 PLATE NO. M2-1.10



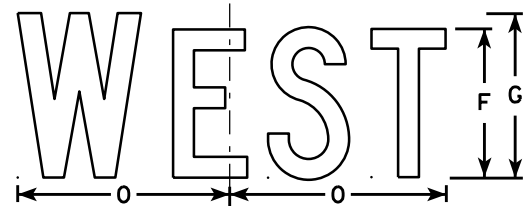
M3-1
MK3-1



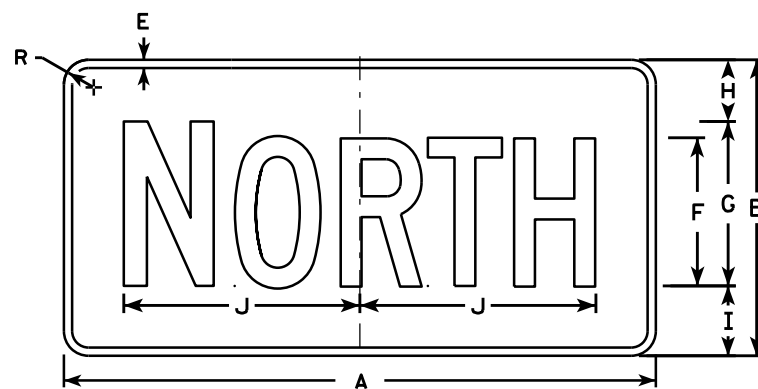
M3-2
MK3-2



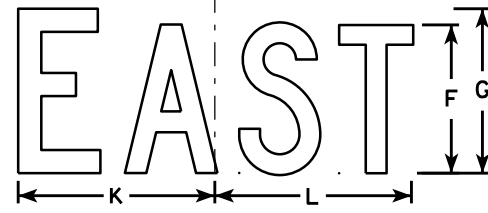
M3-3
MK3-3



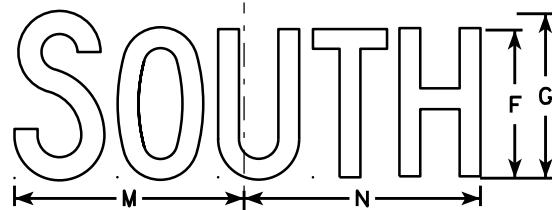
M3-4
MK3-4



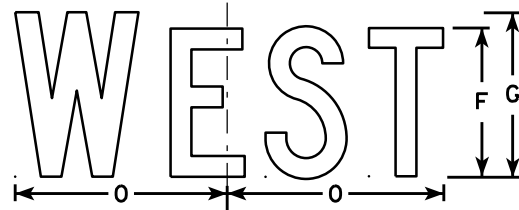
MB3-1
MG3-1
MM3-1
MN3-1



MB3-2
MG3-2
MM3-2
MN3-2



MB3-3
MG3-3
MM3-3
MN3-3



MB3-4
MG3-4
MM3-4
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
MG3-1 thru MG3-4 Background - Green
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

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 thru M3-4 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 6/19/14 PLATE NO. M3-1.13

PROJECT NO:

HWY:

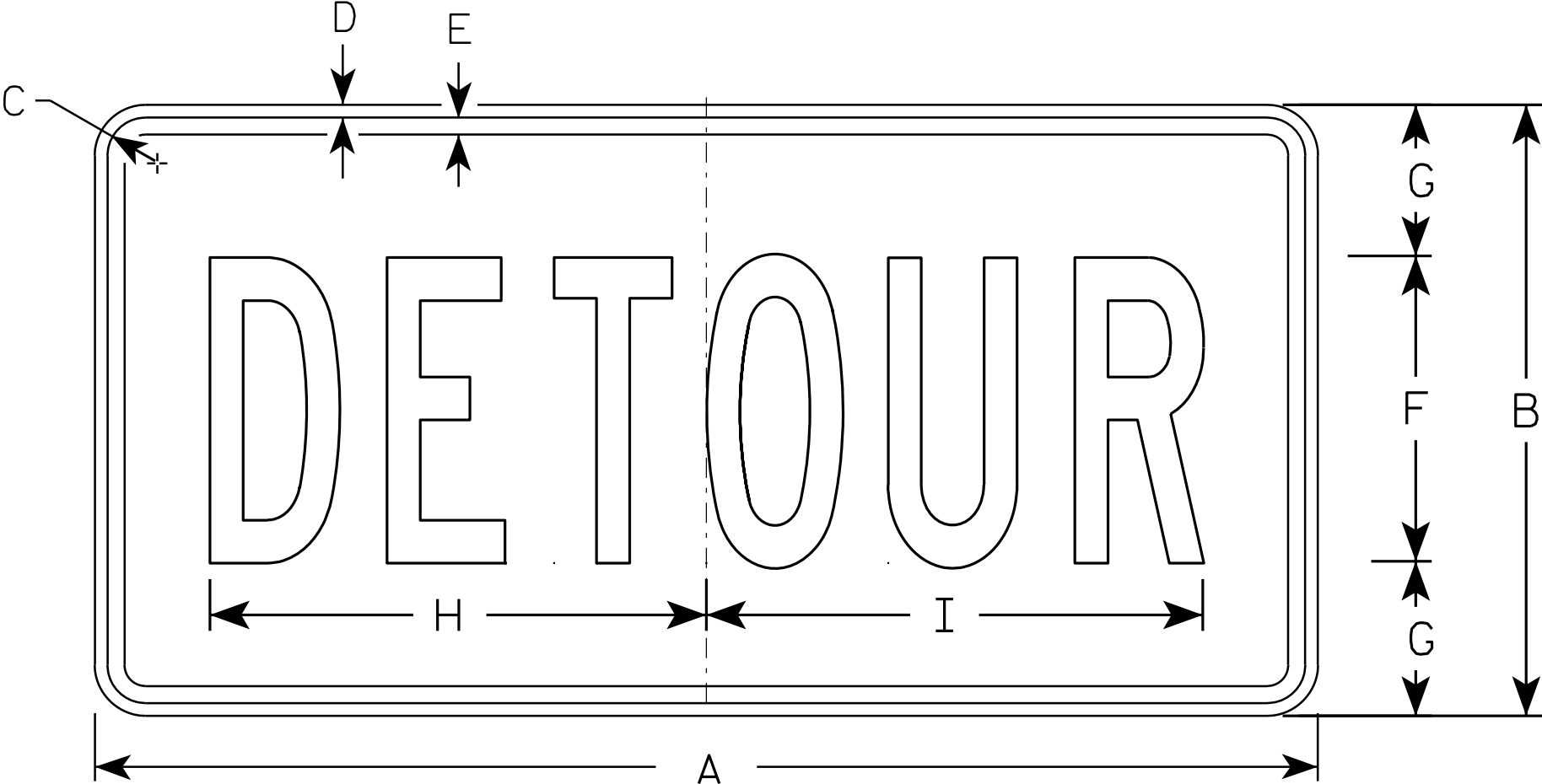
COUNTY:

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 - 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.



M4 - 8

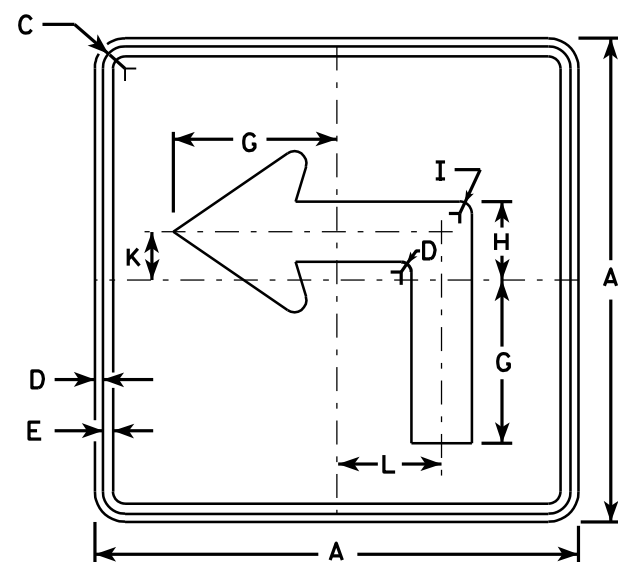
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

STANDARD SIGN
M4 - 8

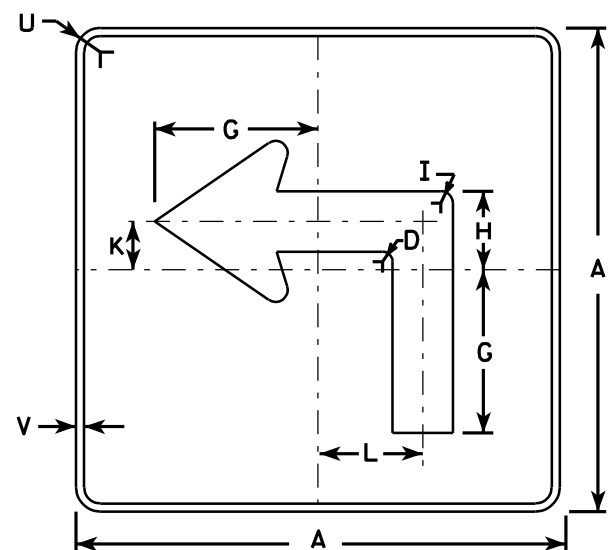
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

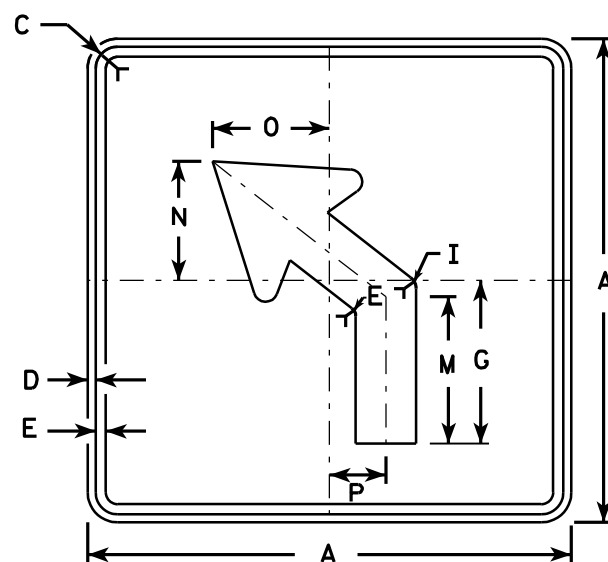
DATE 11/10/10 PLATE NO. M4-8.2



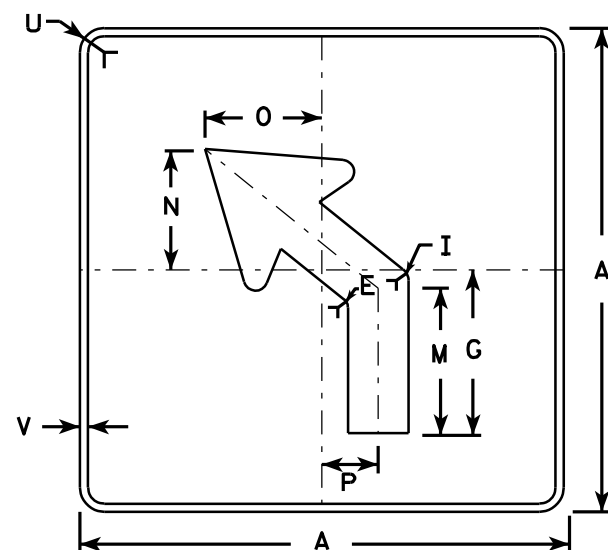
M5-1L
MK5-1L
MM5-1L
M05-1L
MP5-1L
MR5-1L



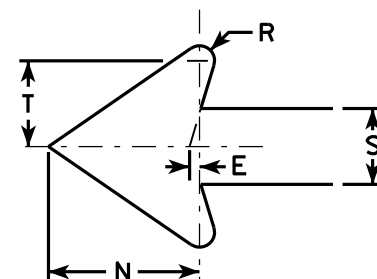
MB5-1L
MG5-1L
MN5-1L



M5-2L
MK5-2L
MM5-2L
M05-2L
MP5-2L
MR5-2L



MB5-2L
MG5-2L
MN5-2L

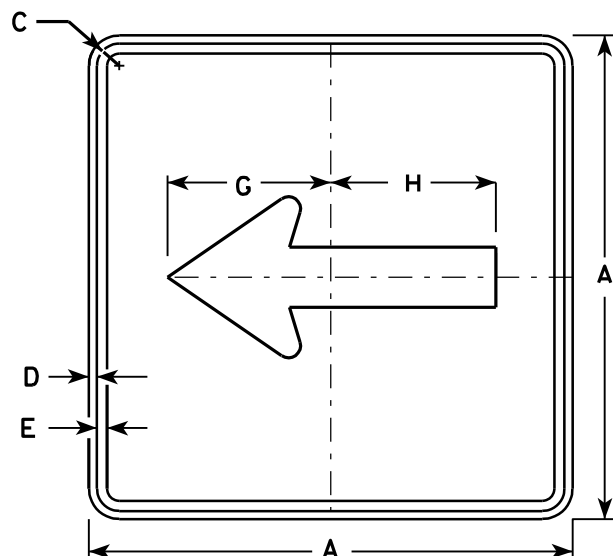


NOTES

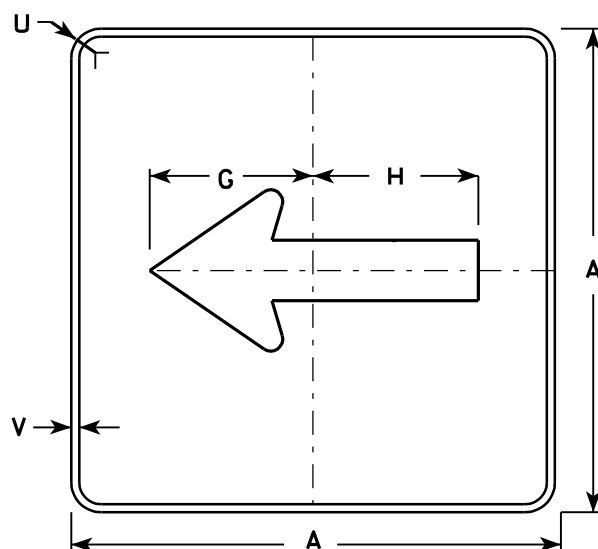
- Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - See note 4
Message - See note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M5-1 and M5-2 Background - White - Type H Reflective
Message - Black
MB5-1 and MB5-2 Background - Blue
Message - White - Type H Reflective
MG5-1 and MG5-2 Background - Green
Message - White - Type H Reflective
MK5-1 and MK5-2 Background - Green
Message - White Type H Reflective
MM5-1 and MM5-2 Background - White - Type H Reflective
Message - Green
MN5-1 and MN5-2 Background - Brown
Message - White - Type H Reflective
M05-1 and M05-2 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 - Type H Reflective
- M5-1R same as M5-1L except arrow points right.
- 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

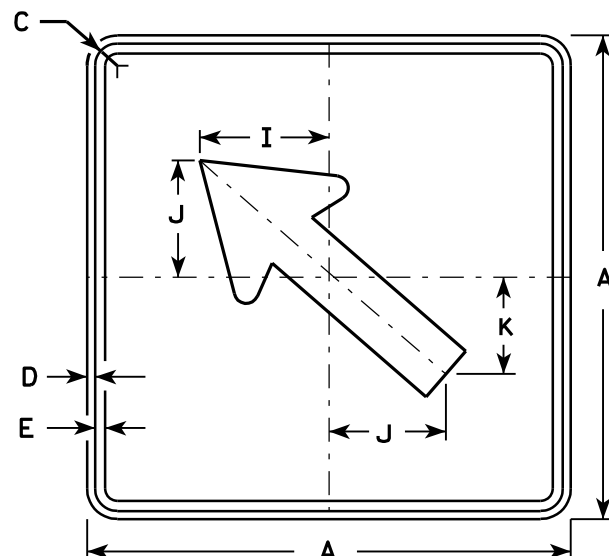
STANDARD SIGN	
M5-1 & M5-2	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 7/29/13	PLATE NO. M5-1.12



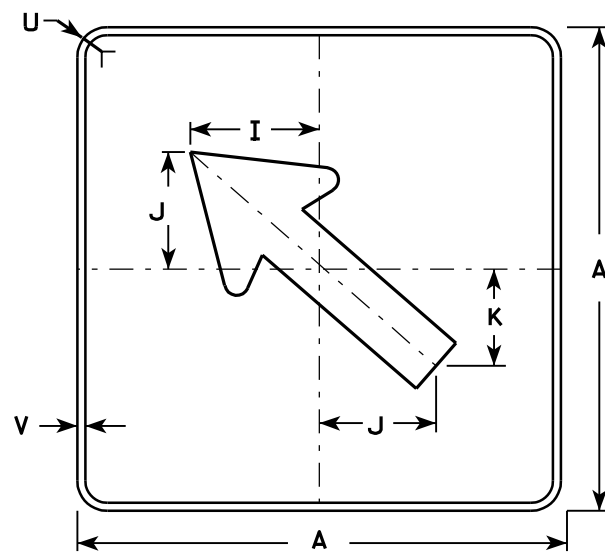
M6-1
MK6-1
MM6-1
MO6-1
MP6-1
MR6-1



MB6-1
MG6-1
MN6-1



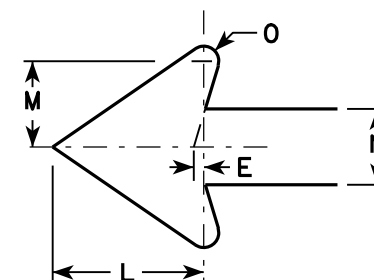
M6-2
MK6-2
MM6-2
MO6-2
MP6-2
MR6-2



MB6-2
MG6-2
MN6-2

NOTES

- Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
 - Background - See note 4
 - Message - See note 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.
- M6-1 and M6-2 Background - White - Type H Reflective
Message - Black
 MB6-1 and MB6-2 Background - Blue
Message - White - Type H Reflective
 MG6-1 and MG6-2 Background - Green
Message - White - Type H Reflective
 MK6-1 and MK6-2 Background - Green
Message - White - Type H Reflective
 MM6-1 and MM6-2 Background - White - Type H Reflective
Message - Green
 MN6-1 and MN6-2 Background - Brown
Message - White - Type H Reflective
 MO6-1 and MO6-2 Background - Orange - Type F Reflective
Message - Black
 MP6-1 and MP6-2 Background - White - Type H Reflective
Message - Blue
 MR6-1 and MR6-2 Background - Brown
Message - Yellow - Type H 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	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 7/29/13 PLATE NO. M6-1.13

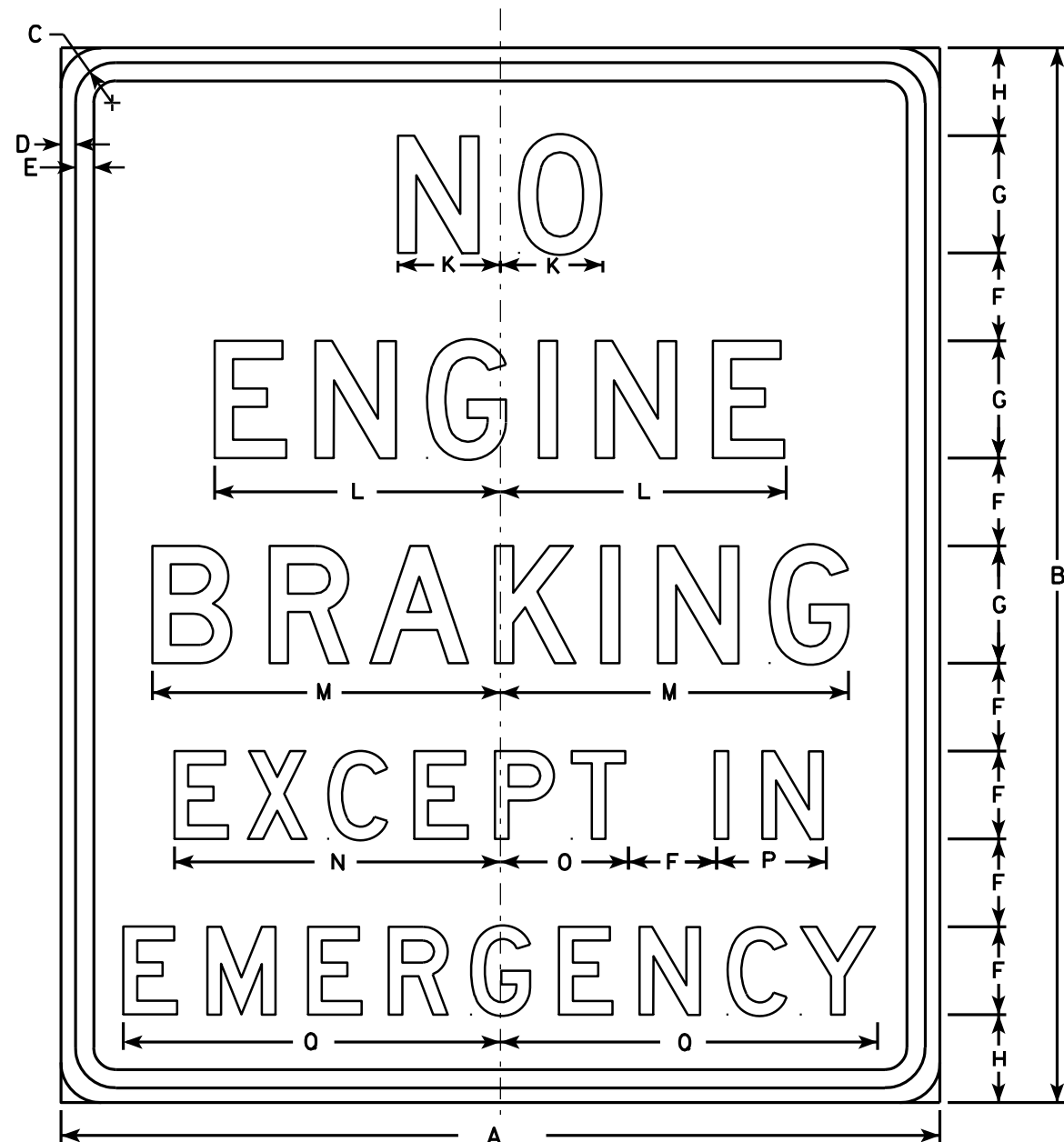
PROJECT NO:

HWY:

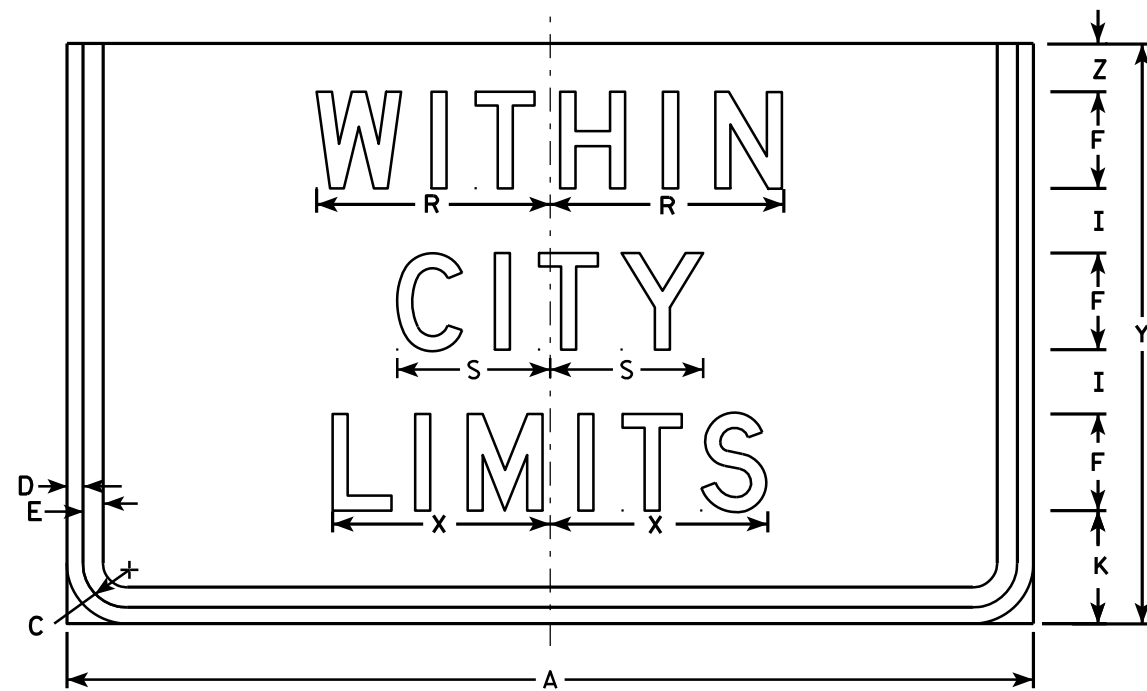
COUNTY:

SHEET NO:

E



R10-64



R10-64F

Area sq. ft.
3.75
7.0

VILLAGE

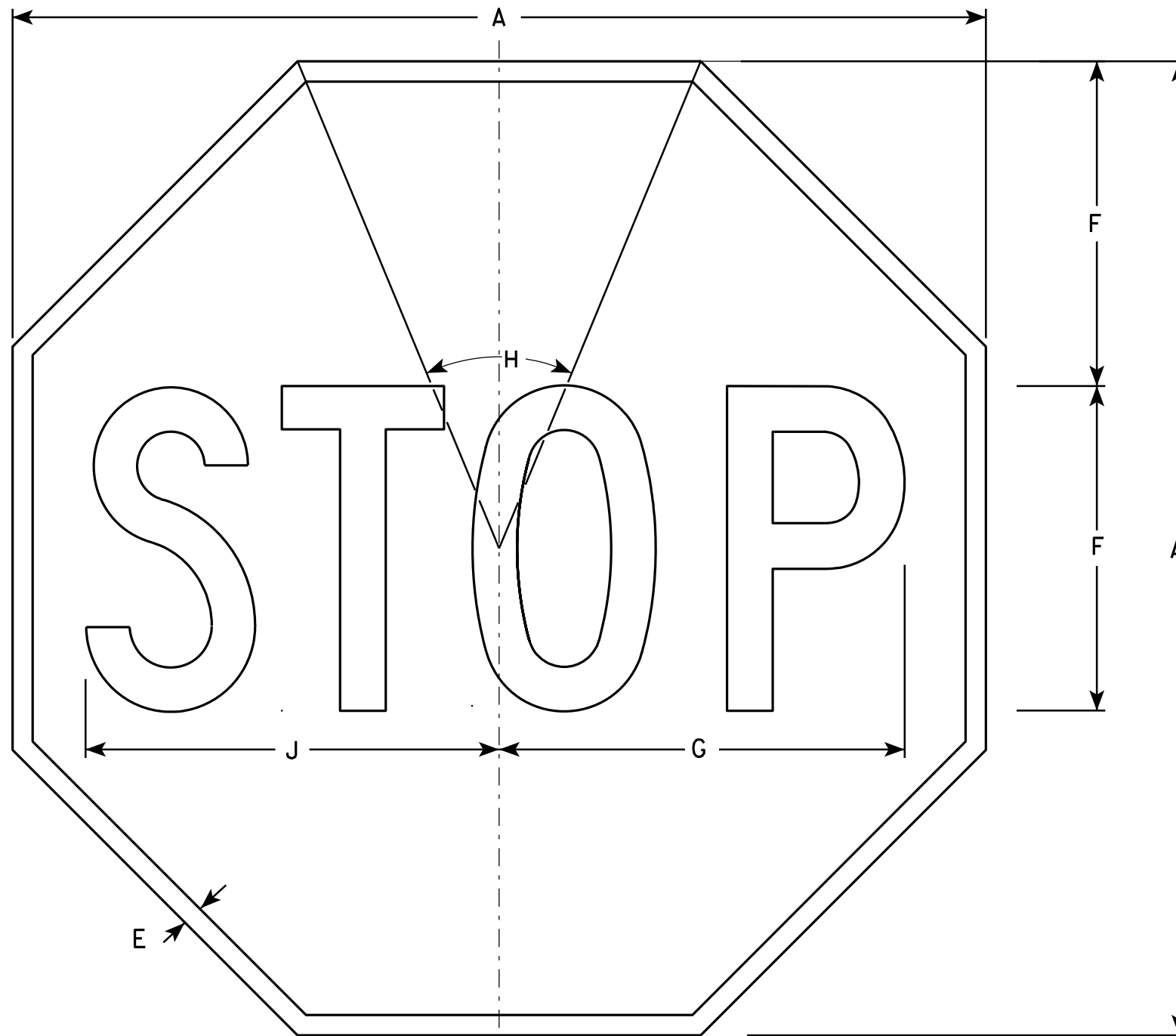
TOWNSHIP

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	30	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
2S	30	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
2M	30	36	1 3/8	1/2	5/8	3	4	3	2		3 1/2	9 3/4	11 7/8	11 1/8	4 3/8	3 3/4	12 7/8	7 1/4	4 3/4		8 1/4	8 3/4	5/8	6 3/4	18	1 1/2	7.5
3	42	48	1 3/8	1/2	5/8	4	5	4 1/2	3		4	12 1/4	14 7/8	14 1/8	5 1/4	4 3/4	16 1/4	9	6		11	11 1/4	1 1/2	8 1/2	24	2	14.0
4																											
5																											

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E
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NOTES

1. Signs are 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 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 2 of R10-64F is Series C for "TOWNSHIP" Only



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

R1-1

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24				3/8	8	10	45°		10 1/4																	3.31
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

STANDARD SIGN
R1 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

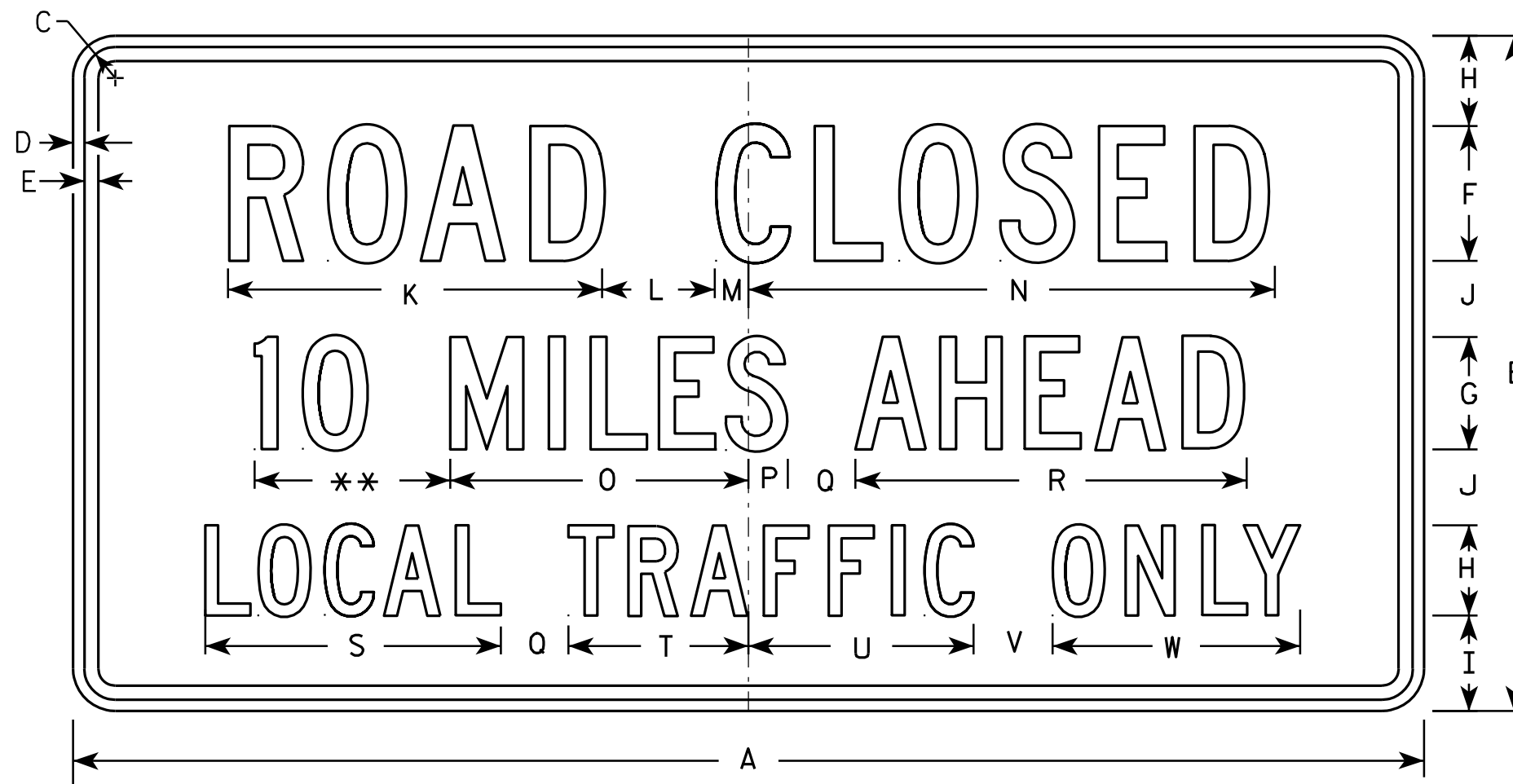
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



R11-3

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 - 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 numerals and optically adjust spacing to achieve proper balance.

** See Note 5

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	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
3																											
4																											
5																											

STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-3.6

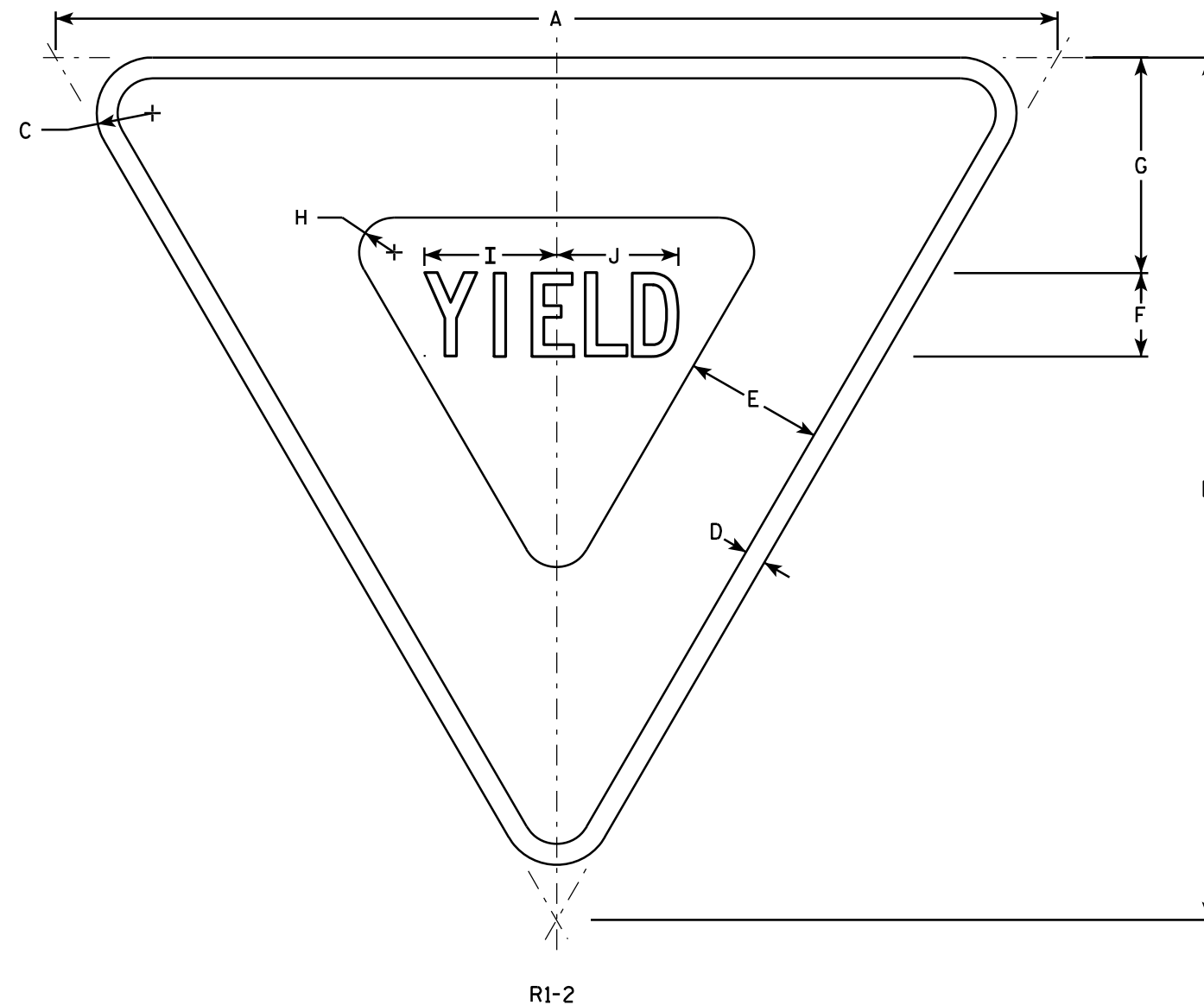
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

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 - 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	24	21	1 1/2	3/8	3	2	4 3/4	7/8	3 1/4	3																	1.75
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

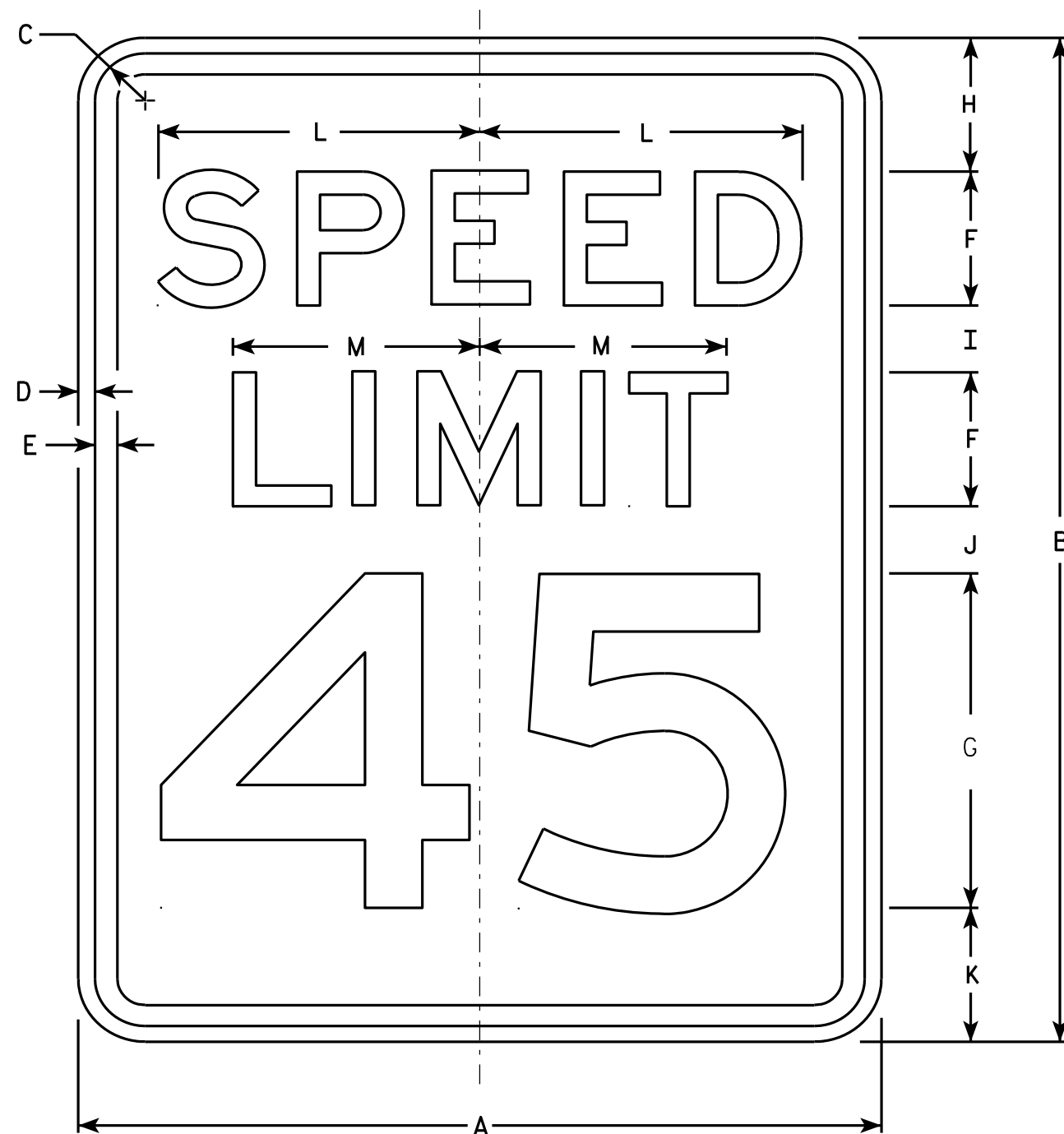
STANDARD SIGN R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/02/10 PLATE NO. R1-2.11

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**



R2-1

NOTES

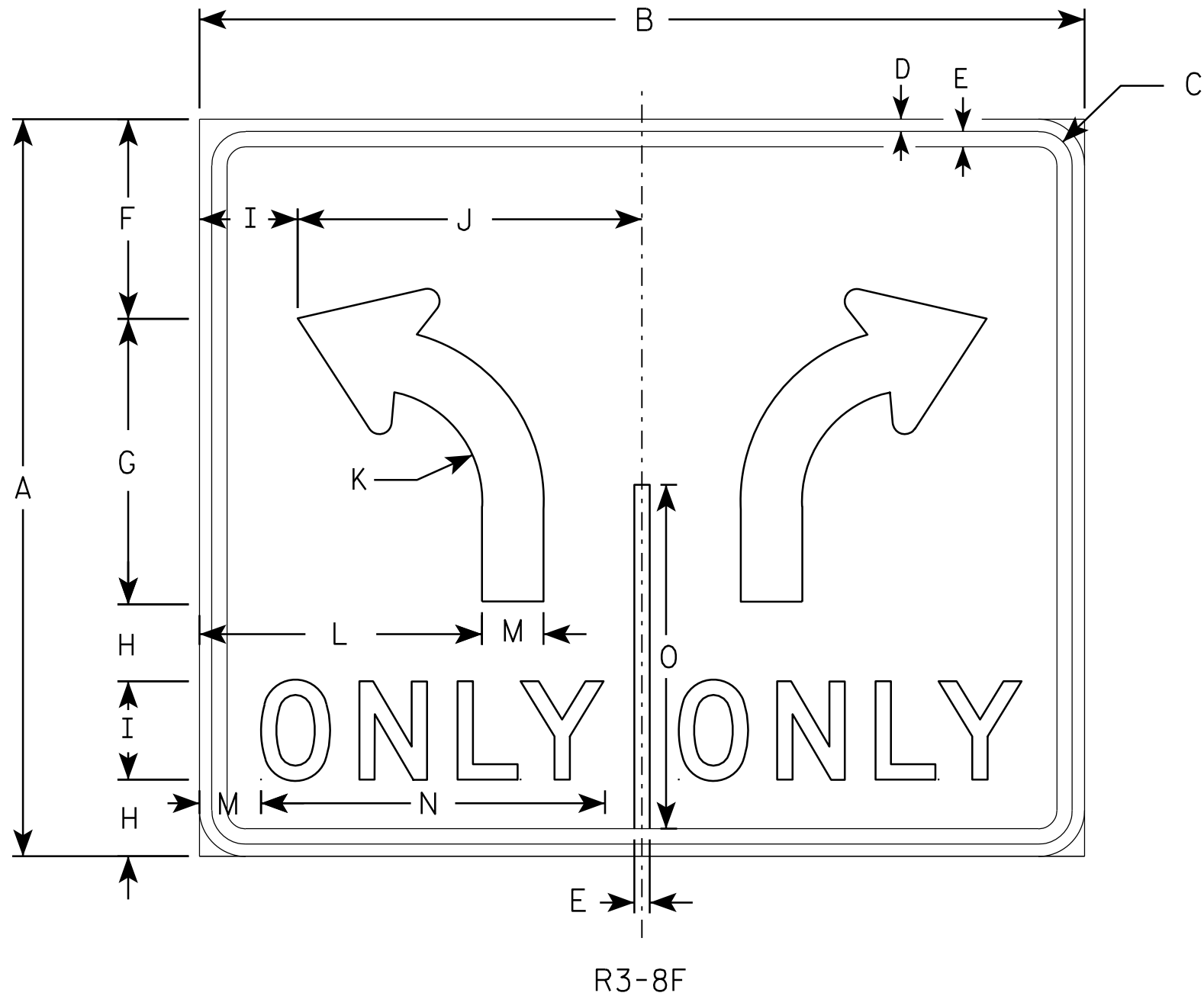
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as 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

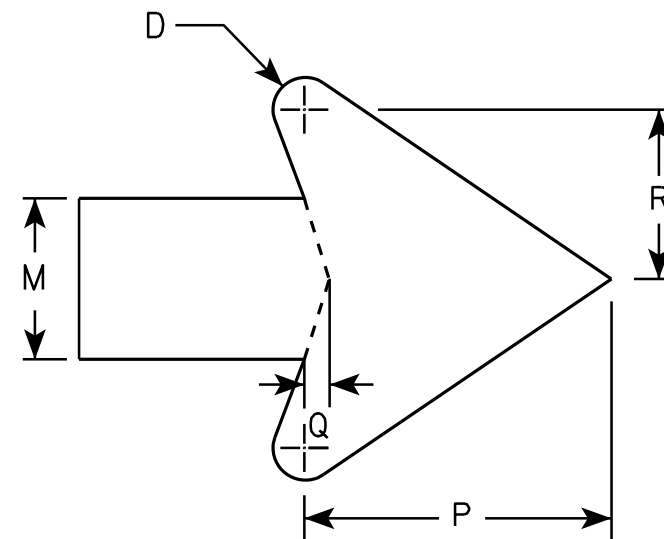
WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
For State Traffic Engineer
DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: HWY: COUNTY: SHEET NO: 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 - 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.



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	30	36	1 3⁄8	1⁄2	5⁄8	8 1⁄8	11 5⁄8	3 1⁄8	4	14	4 1⁄2	11 1⁄2	2 1⁄2	14	14	4 3⁄4	3⁄8	2 5⁄8									7.5
2M	30	36	1 3⁄8	1⁄2	5⁄8	8 1⁄8	11 5⁄8	3 1⁄8	4	14	4 1⁄2	11 1⁄2	2 1⁄2	14	14	4 3⁄4	3⁄8	2 5⁄8									7.5
3																											
4	48	54	2 1⁄4	3⁄4	1	13 1⁄4	18 1⁄2	5 1⁄8	6	21	7 1⁄4	17 1⁄4	3 3⁄4	20 5⁄8	22 3⁄8	7 1⁄8	5⁄8	4									18.0
5	48	54	2 1⁄4	3⁄4	1	13 1⁄4	18 1⁄2	5 1⁄8	6	21	7 1⁄4	17 1⁄4	3 3⁄4	20 5⁄8	22 3⁄8	7 1⁄8	5⁄8	4									18.0

STANDARD SIGN R3-8F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8F.2

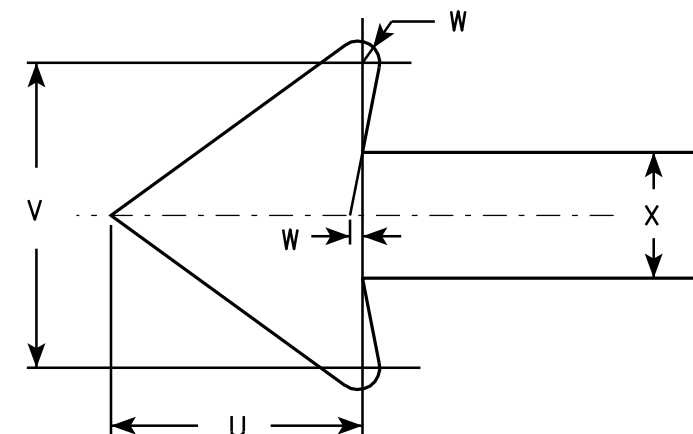
PROJECT NO: HWY: COUNTY: SHEET NO: E



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																											

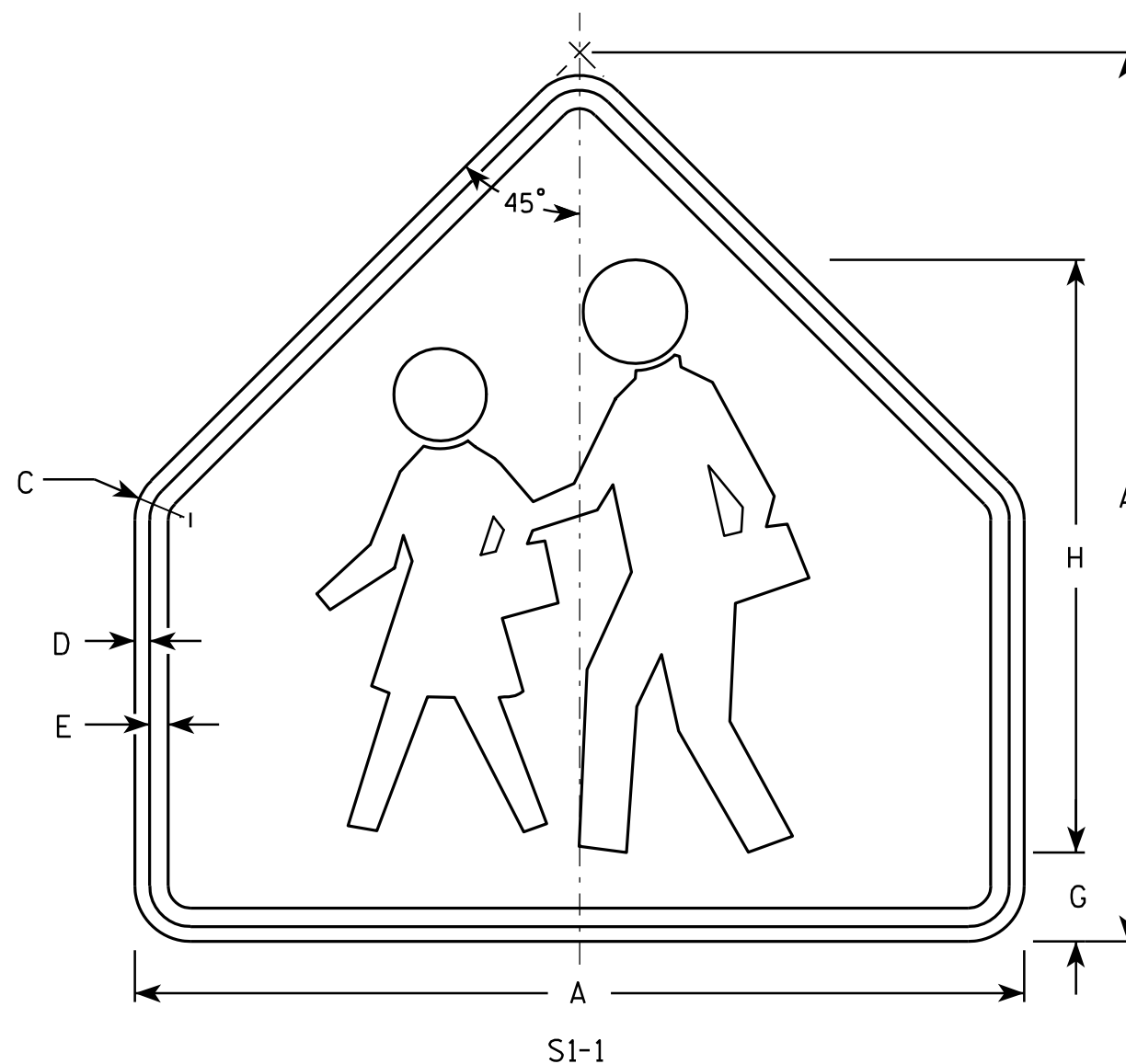
STANDARD SIGN R7-1

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: 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-Green
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	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

STANDARD SIGN
S1-1

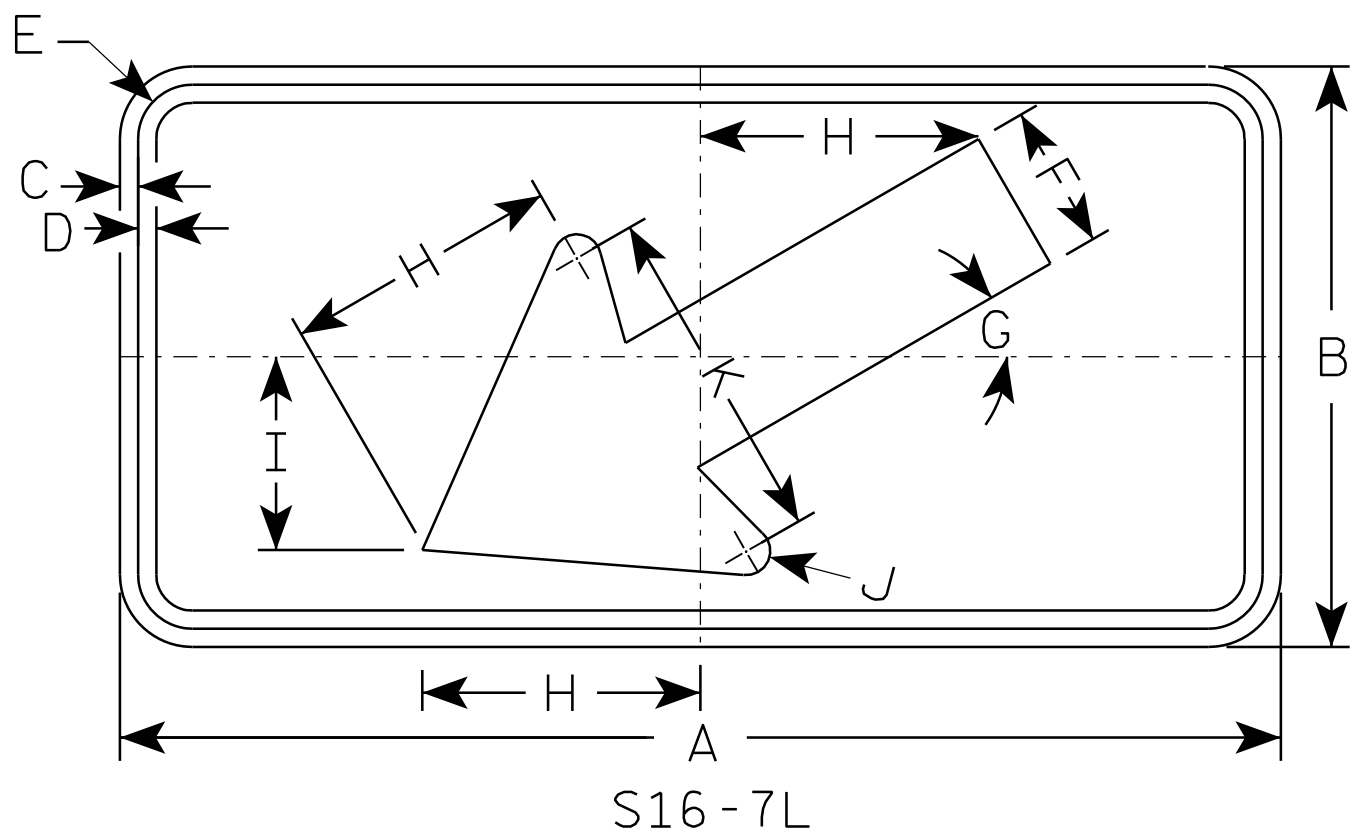
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/30/05 PLATE NO. S1-1.8

PROJECT NO: HWY: COUNTY: SHEET NO: E

NOTES

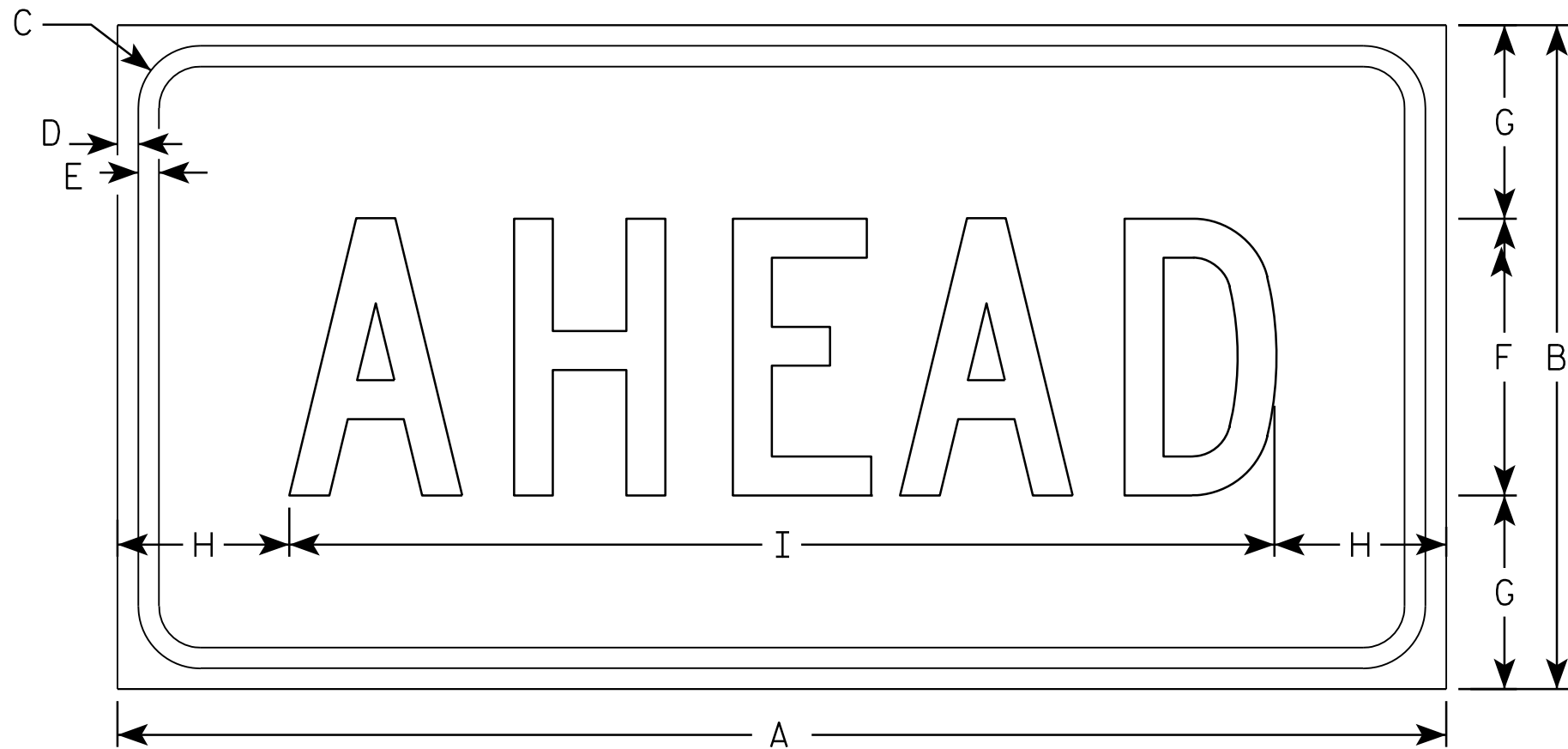
1. Sign is Type II - Type F Reflective -
reference WIS DOT Standard Specification for
HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow-Green
Message - Black
3. Corners may be square or rounded when base
material is plywood but borders shall be rounded
as shown. When base material is metal, the
corners and borders shall be rounded.
4. S16-7R are the same as
S16-7L except the arrow is reversed along
the vertical centerline.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2S	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4	48	24	1/2	5/8	1 3/8	6	30°	11 1/2	8	1	14																8.0
5																											

STANDARD SIGN	
S16-7	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 7/22/13	PLATE NO. S16-7.1

7



S16-9P

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-Green
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.

7

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	12	1 1/8	3/8	3/8	5	3 1/2	3 1/8	17 3/4																		2.0
2S	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
2M	30	18	1 1/8	3/8	1/2	7	5 1/2	2 3/4	24 1/2																		3.75
3	30	18	1 1/8	3/8	1/2	7	3 1/2	2 3/4	24 1/2																		3.75
4	48	24	1 3/8	1/2	5/8	10	7	6 1/8	35 3/4																		8.0
5																											

STANDARD SIGN

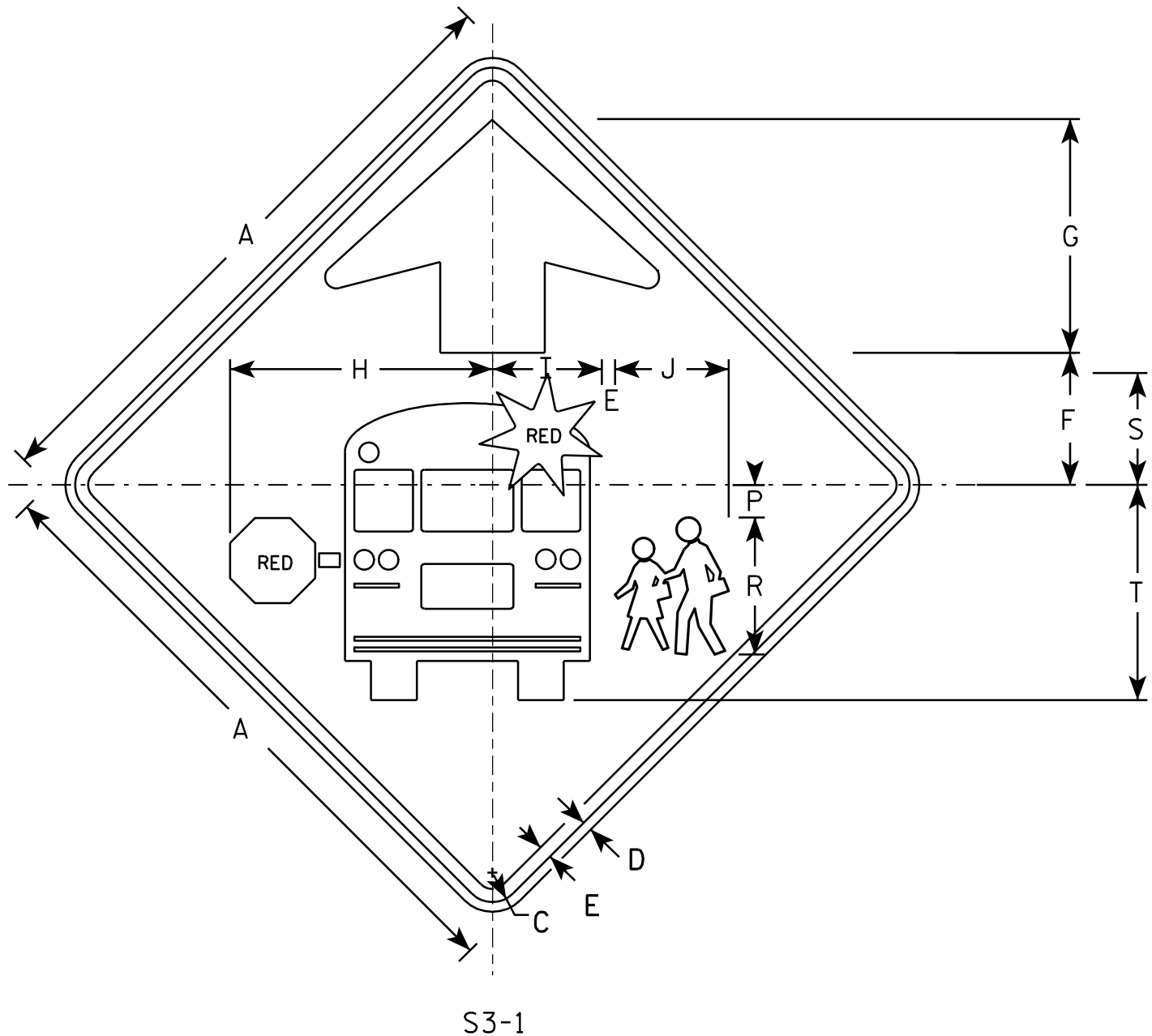
S16-9P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 7/22/13 PLATE NO. S16-9P.1

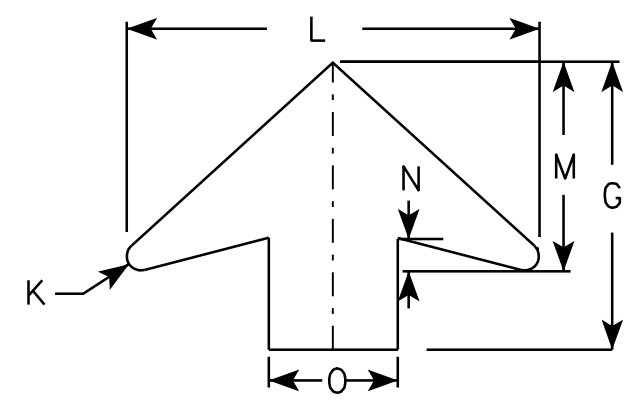
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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S3-1

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-GREEN
Message - BLACK except as noted
Circles except PEDS- RED BACKGROUND
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	6 1/4	11 1/4	12 1/2	5 1/4	5 1/2	1/2	16	8	1 1/4	5	1 1/2		6 5/8	5 3/8	10 3/8							6.25
2	36		1 5/8	5/8	3/4	7 1/2	13 1/2	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 5/8	6	1 7/8		7 7/8	6 3/8	12 3/8							9.0
3	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											

PROJECT NO:					SHEET NO:	E
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STANDARD SIGN

S3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 6/8/10

PLATE NO. S3-1.6

7

Metric equivalent
for this sign is:

SIZE	
1	
2	300 mm X 1050 mm
3	
4	
5	

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 m ²
1																												
2	12	42	1 1/2			1	1 1/2C	3/4	2 D	24	5 1/2	2	1 1/4	8 1/4	7 3/4	3 7/8	4	1/4	2 5/8	2 3/4	1 1/8	2 3/8	4 7/8	36	6		3.5	0.31
3																												
4																												
5																												

PROJECT NO:

FILE NAME : C:\Users\Projects\tr_std\plate\S452.DGN

PLOT DATE : 29-JUN-2005 11:34

PLOT BY : DOTDZK

SHEET NO:

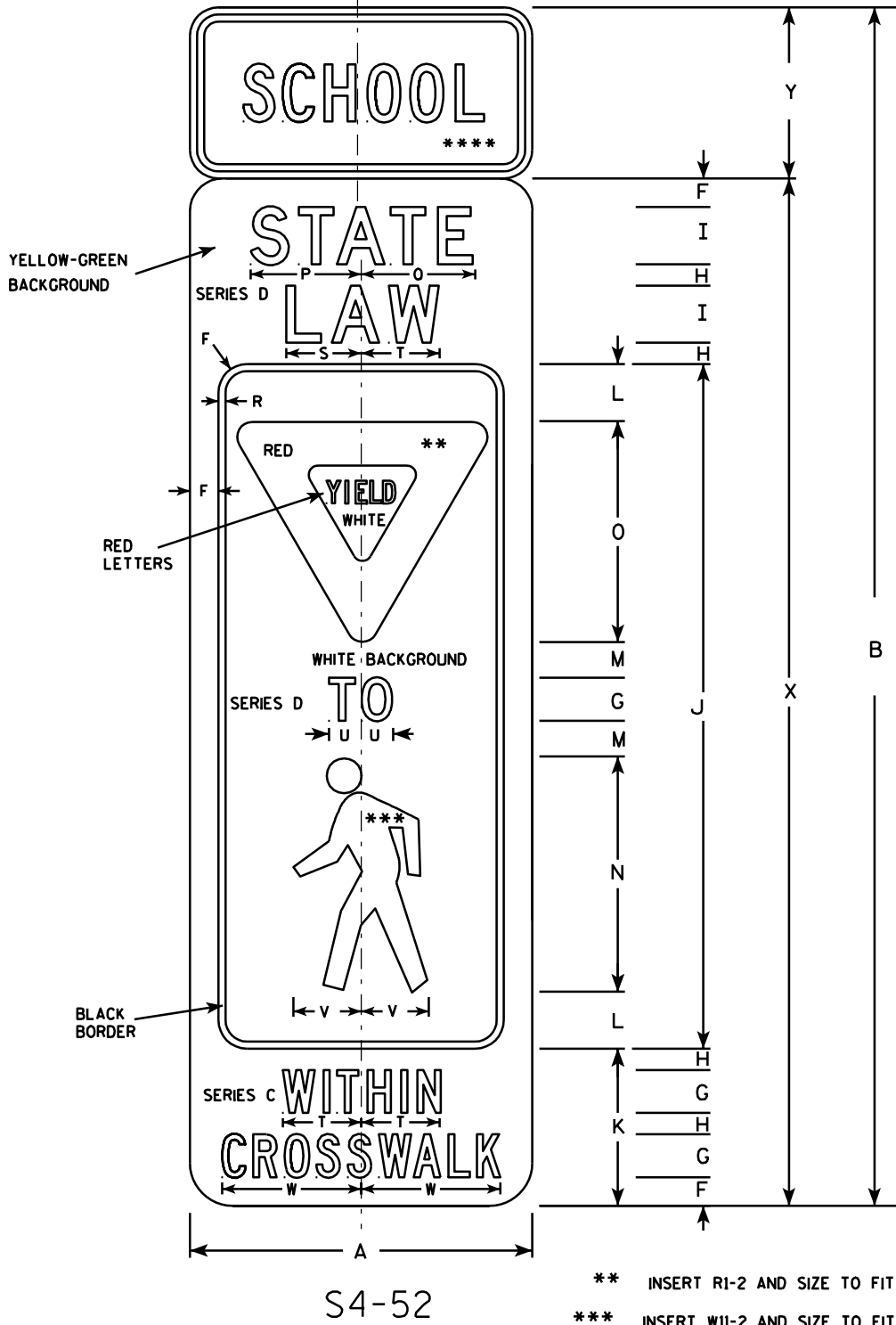
E

STANDARD SIGN
S4-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/14/05 PLATE NO. S4-52.1



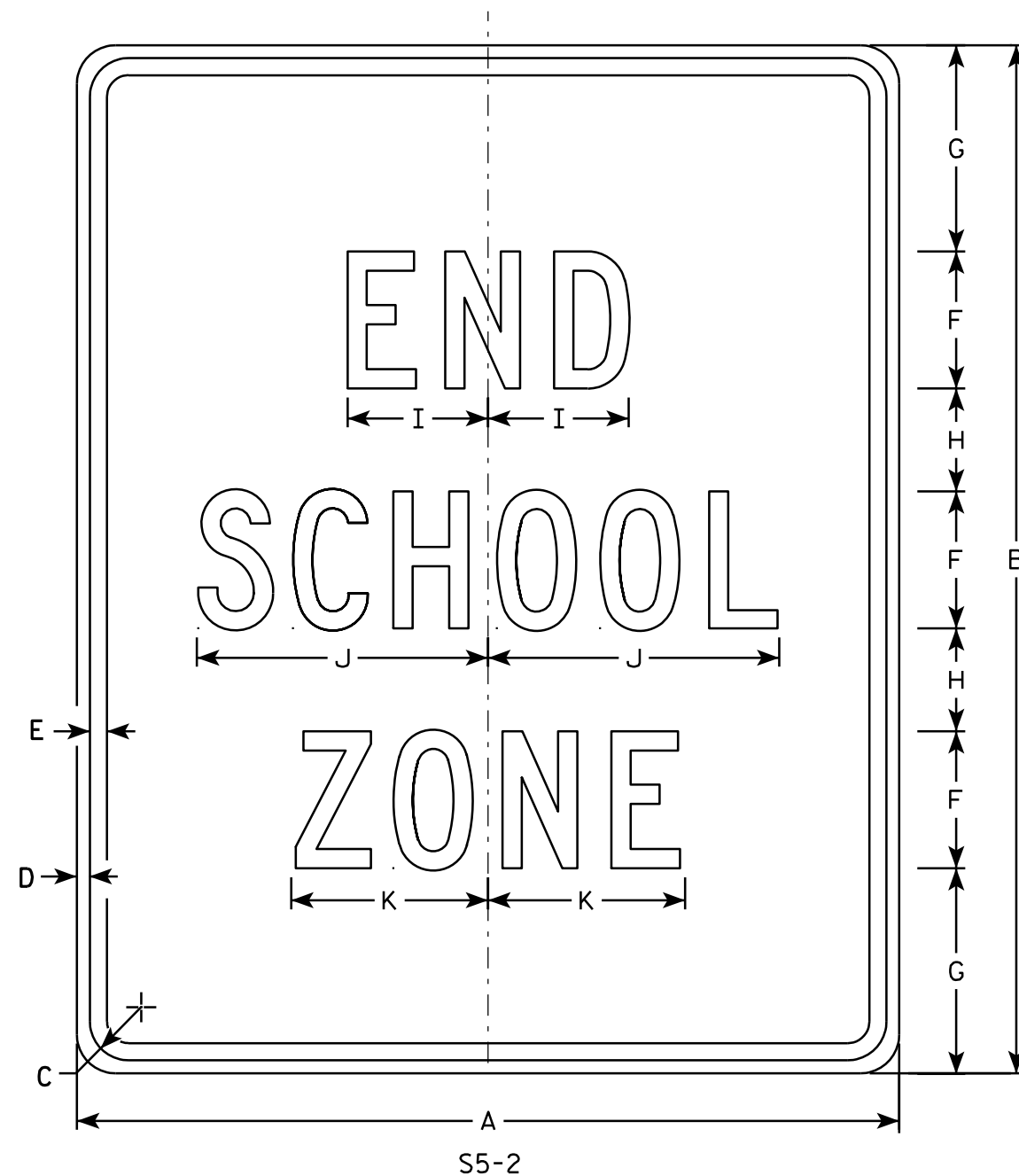
** INSERT RI-2 AND SIZE TO FIT
*** INSERT WII-2 AND SIZE TO FIT
**** INSERT S4-3 SIZE 1

NOTES

- Sign is Type II- reference
WIS DOT Standard Specification for HIGHWAY
and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - YELLOW-GREEN (TYPE F REFLECTIVE)
Message - BLACK
YIELD SYMBOL - RED ON WHITE (TYPE F REFLECTIVE)
PED SYMBOL - BLACK ON WHITE (TYPE F REFLECTIVE)
- Message Series - AS SHOWN AND IN TABLE
- 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.

7

7



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.

7

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	30	1 1/8	3/8	1/2	4	6	3	4 1/8	8 1/2	5 3/4																5.0
3	36	42	1 5/8	5/8	3/4	6	7	5	6 1/8	12 5/8	8 5/8																10.5
4																											
5																											

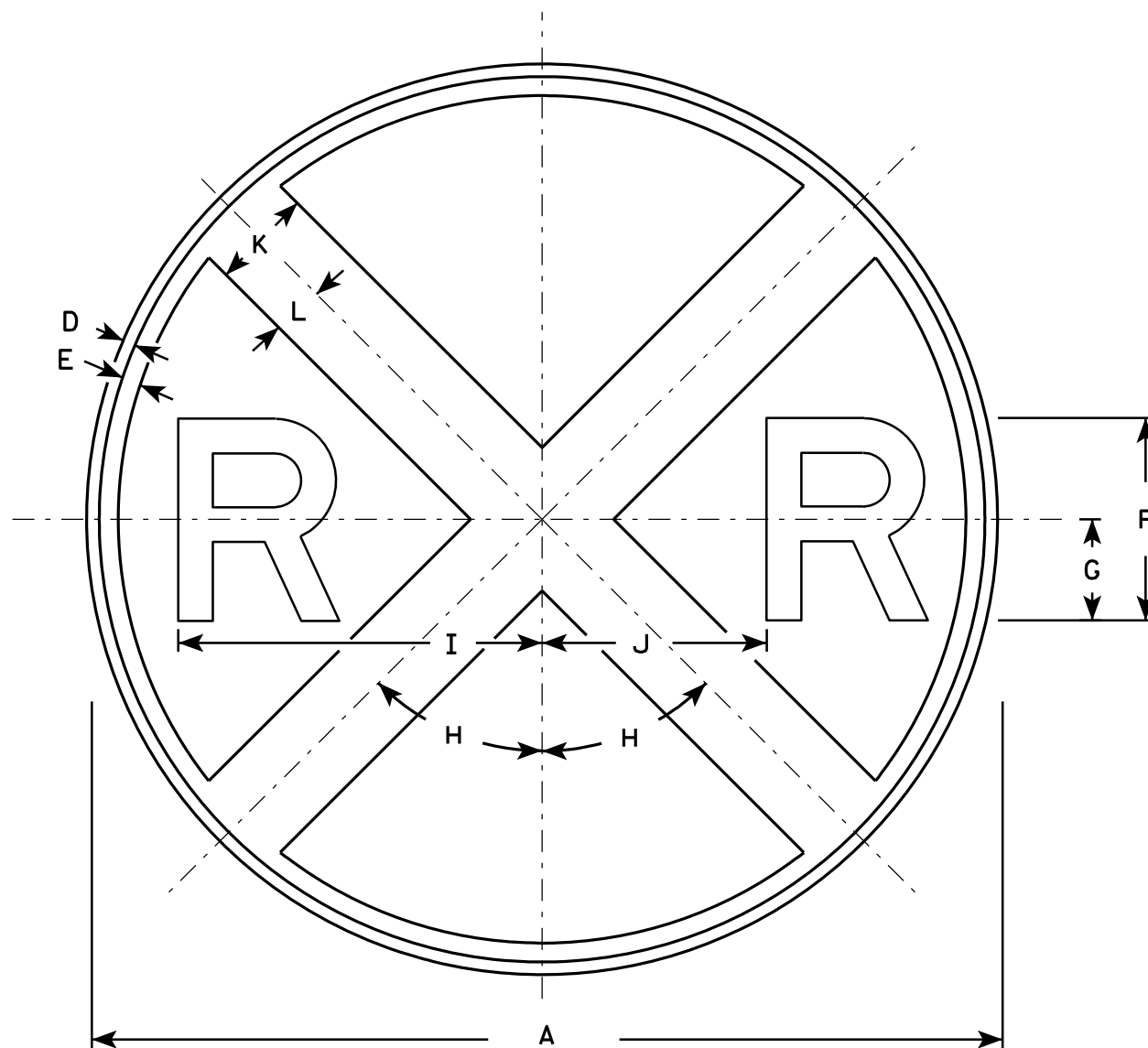
STANDARD SIGN S5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/8/11 PLATE NO. S5-2.2

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ E



W10-1

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 - E

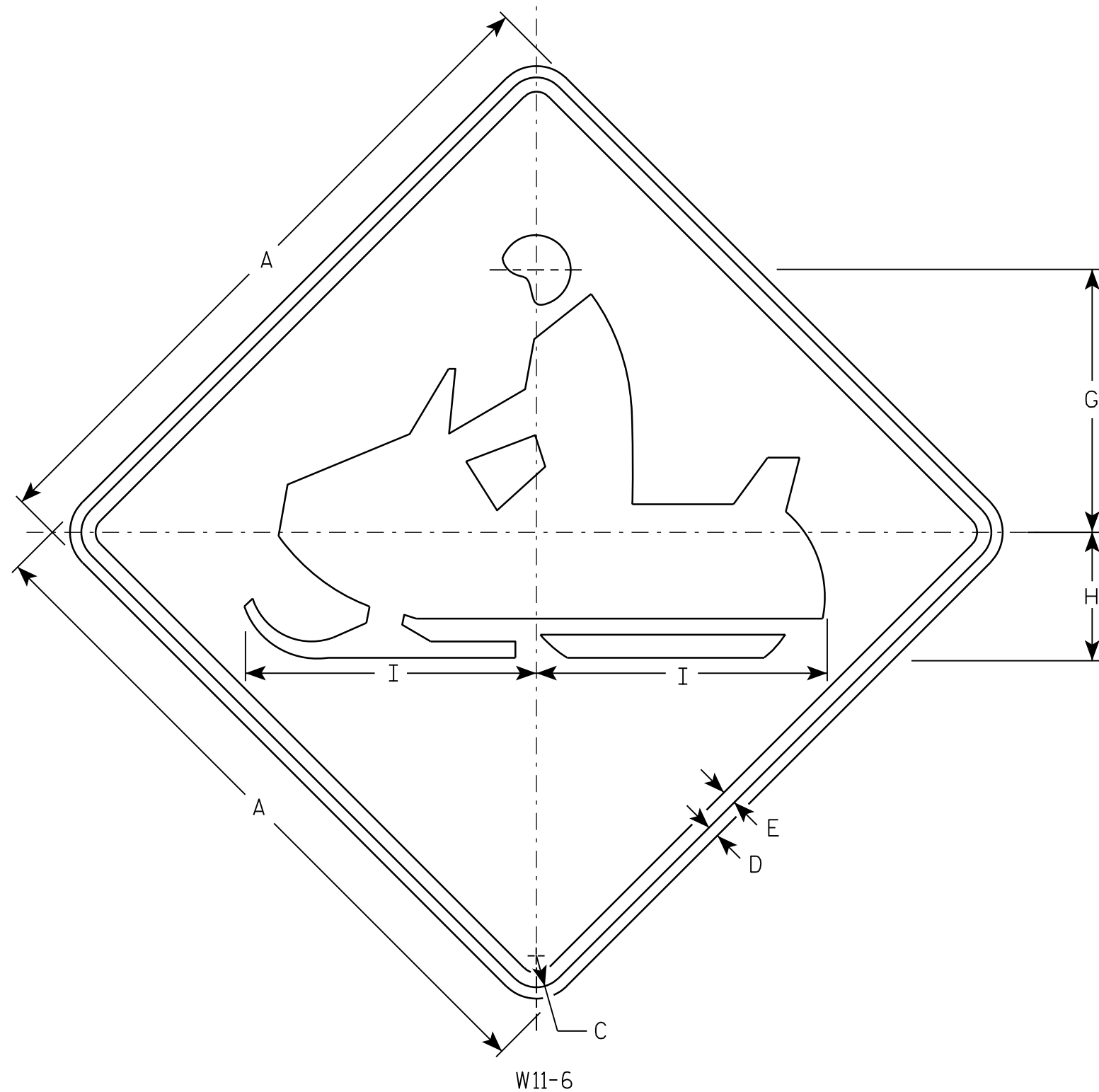
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30			3⁄8	5⁄8	7	3 1⁄2	45°	12 3⁄8	7 1⁄8	3	1 1⁄2															4.91
2S	36			5⁄8	3⁄4	8	4	45°	14 3⁄8	8 5⁄8	4	2															7.07
2M	36			5⁄8	3⁄4	8	4	45°	14 3⁄8	8 5⁄8	4	2															7.07
3																											
4	48			3⁄4	1 1⁄4	10	5	45°	18 3⁄8	11 5⁄8	5	2 1⁄2															12.5
5																											

STANDARD SIGN
W10-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 3/13/13 PLATE NO. W10-1.8

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.

W11-6

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		9 1/2	4 1/2	10 1/4																		4.0
2S	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
2M	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
3	36		1 5/8	5/8	3/4		14 1/8	6 3/4	15 1/4																		9.0
4	48		2 1/4	3/4	1		19	9	20 1/2																		16.0
5																											

STANDARD SIGN
W11-6

WISCONSIN DEPT OF TRANSPORTATION

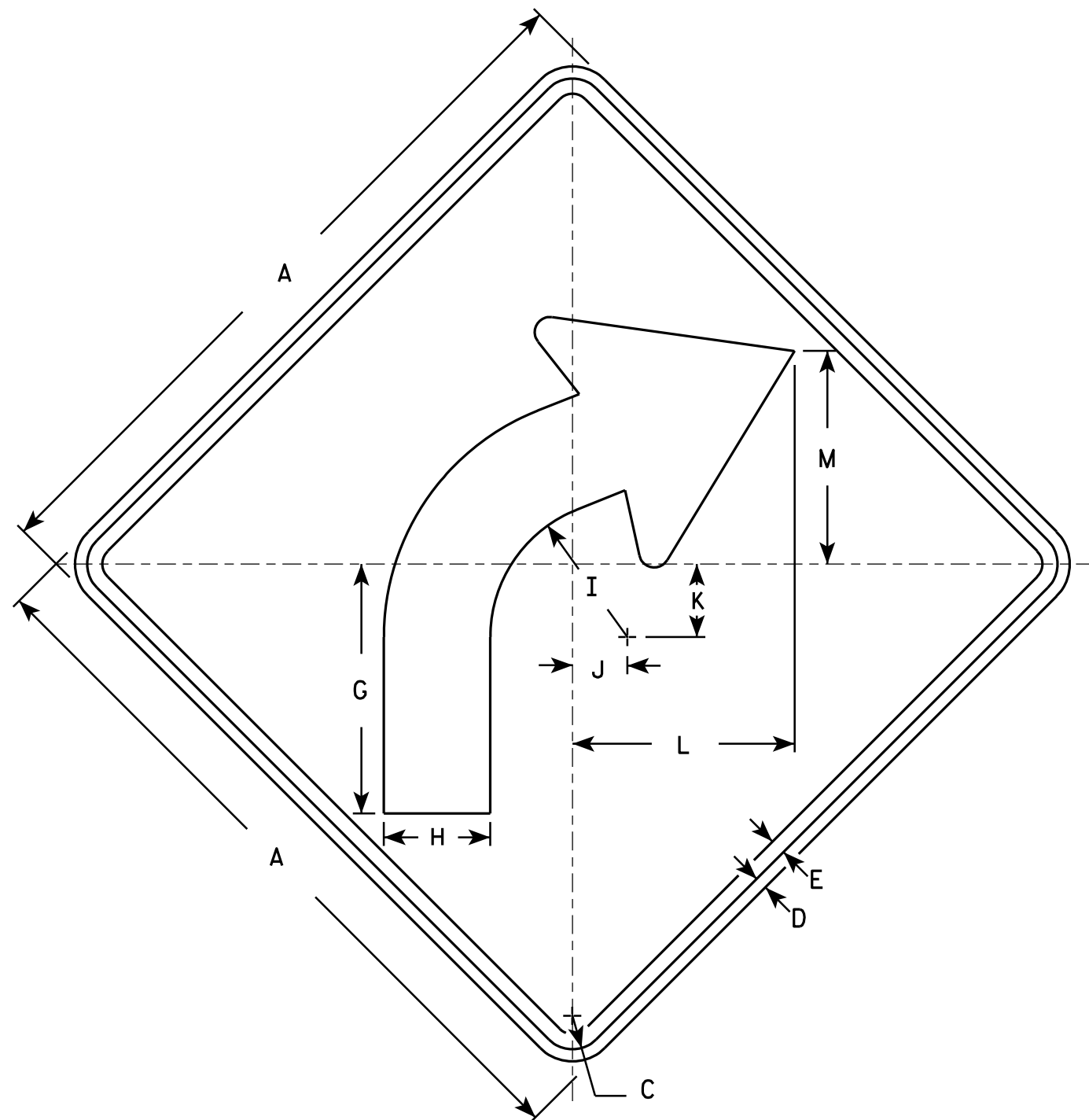
APPROVED Matthew R. Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W11-6.8

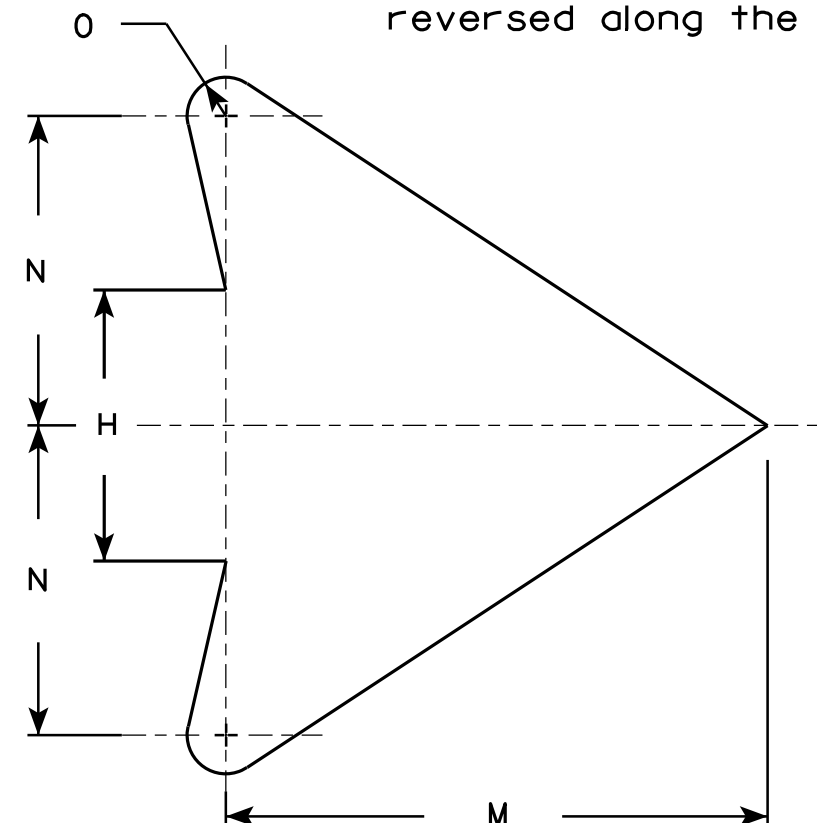
PROJECT NO: HWY: COUNTY: SHEET NO: **E**

NOTES

- Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Yellow
Message - Black
- 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.
- 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:

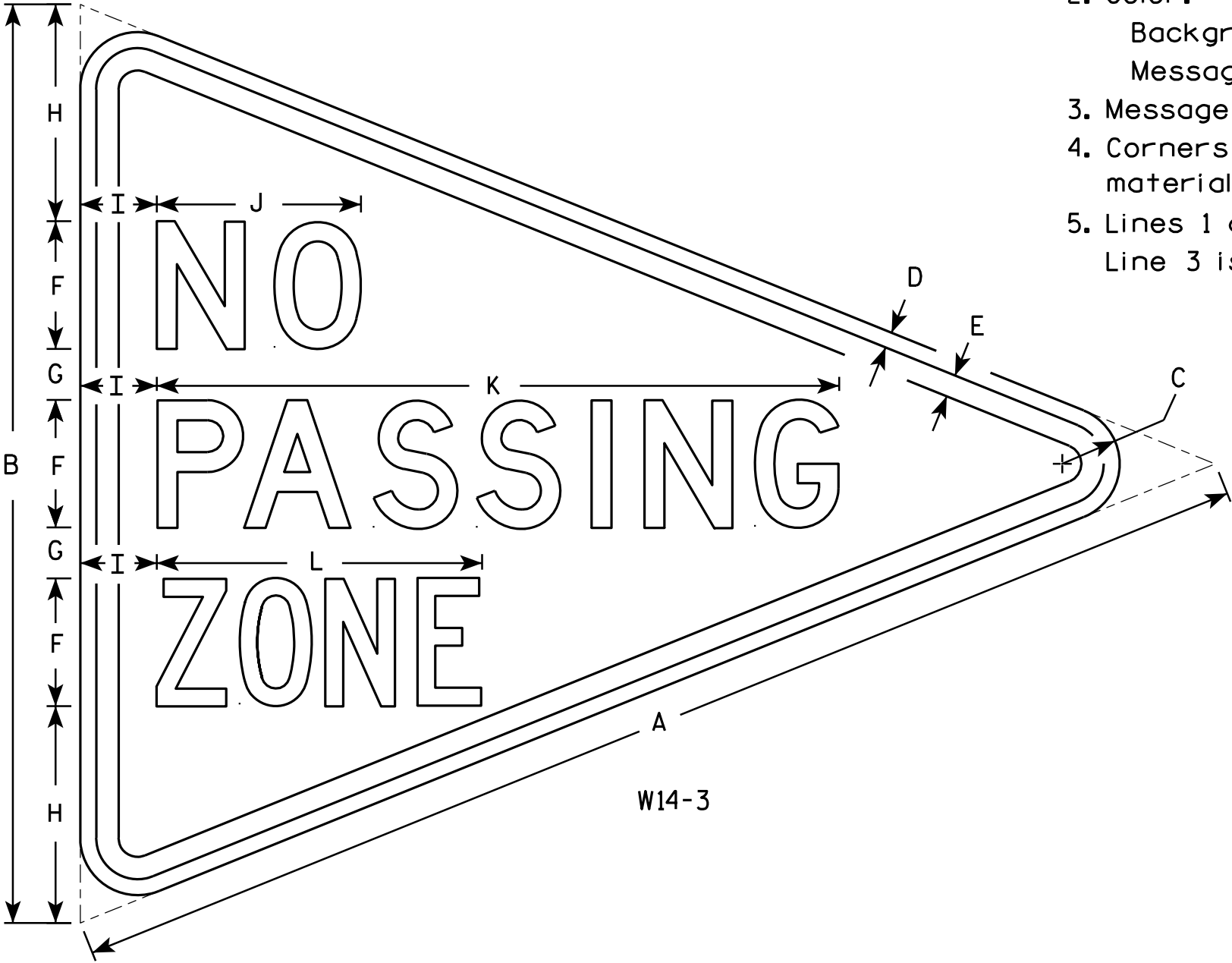
COUNTY:

SHEET NO:

E

NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Yellow
Message - Black
- 3. Message Series - See note 5
- 4. Corners and borders shall be rounded on all base materials for this sign.
- 5. Lines 1 and 2 are Series D.
Line 3 is series C.



W14-3

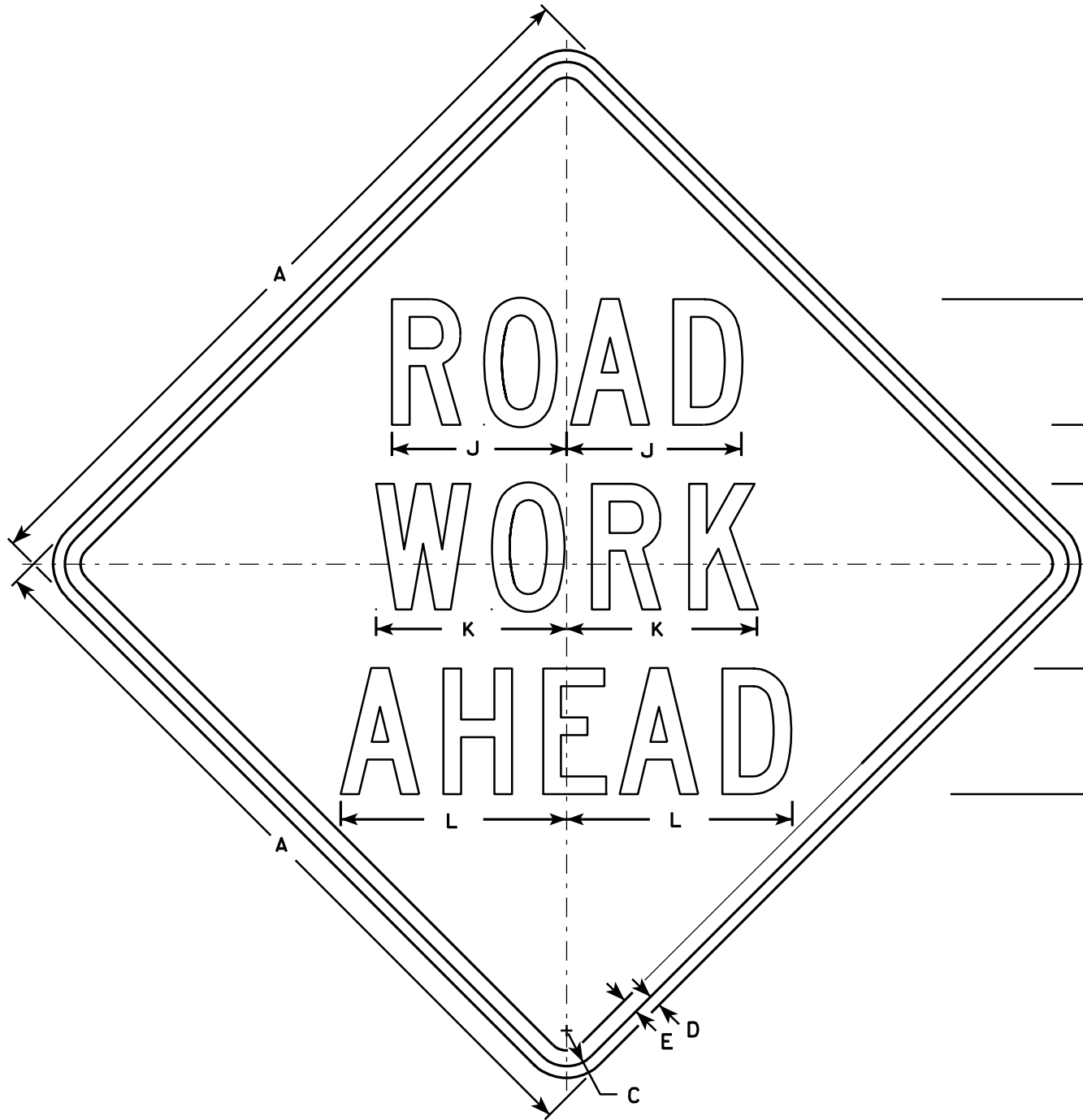
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															10.7
4																											
5																											

STANDARD SIGN
W14-3

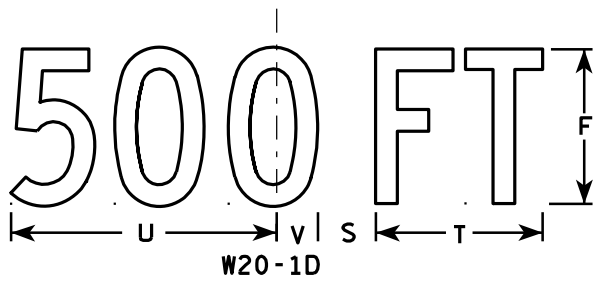
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

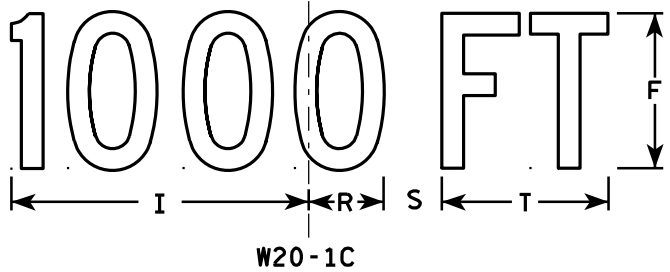
DATE 6/7/10 PLATE NO. W14-3.9



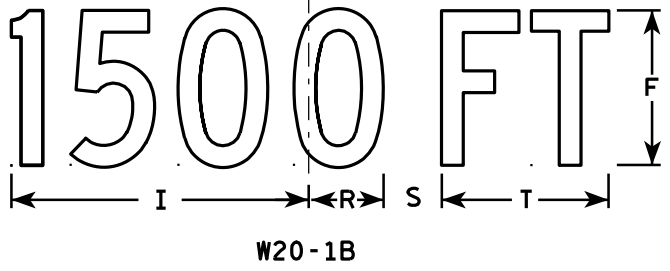
W20-1A



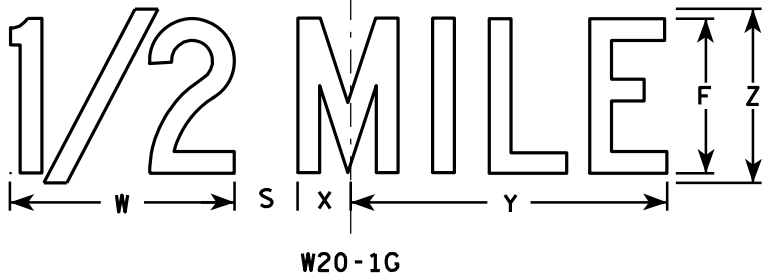
W20-1D



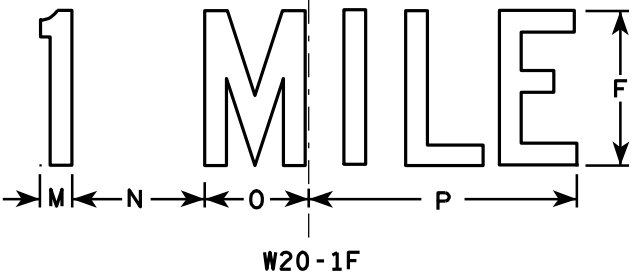
W20-1C



W20-1B



W20-1G



W20-1F

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.

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	1 7/8	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		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		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		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		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		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

PROJECT NO:

SHEET NO:

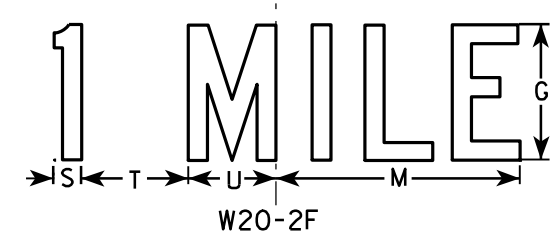
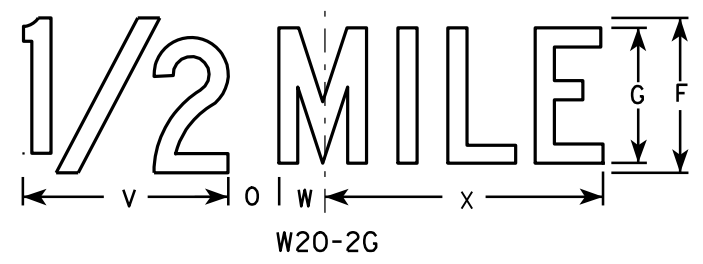
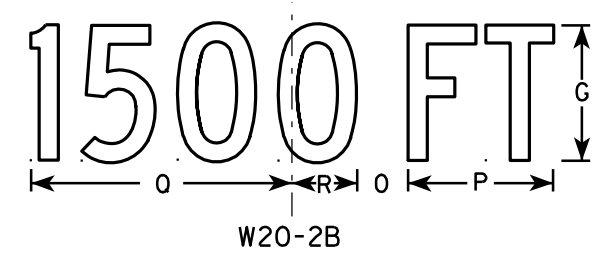
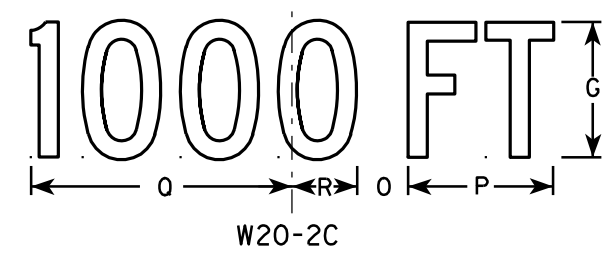
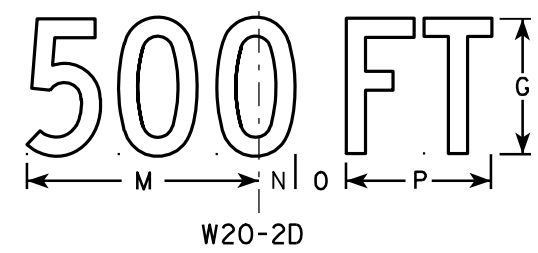
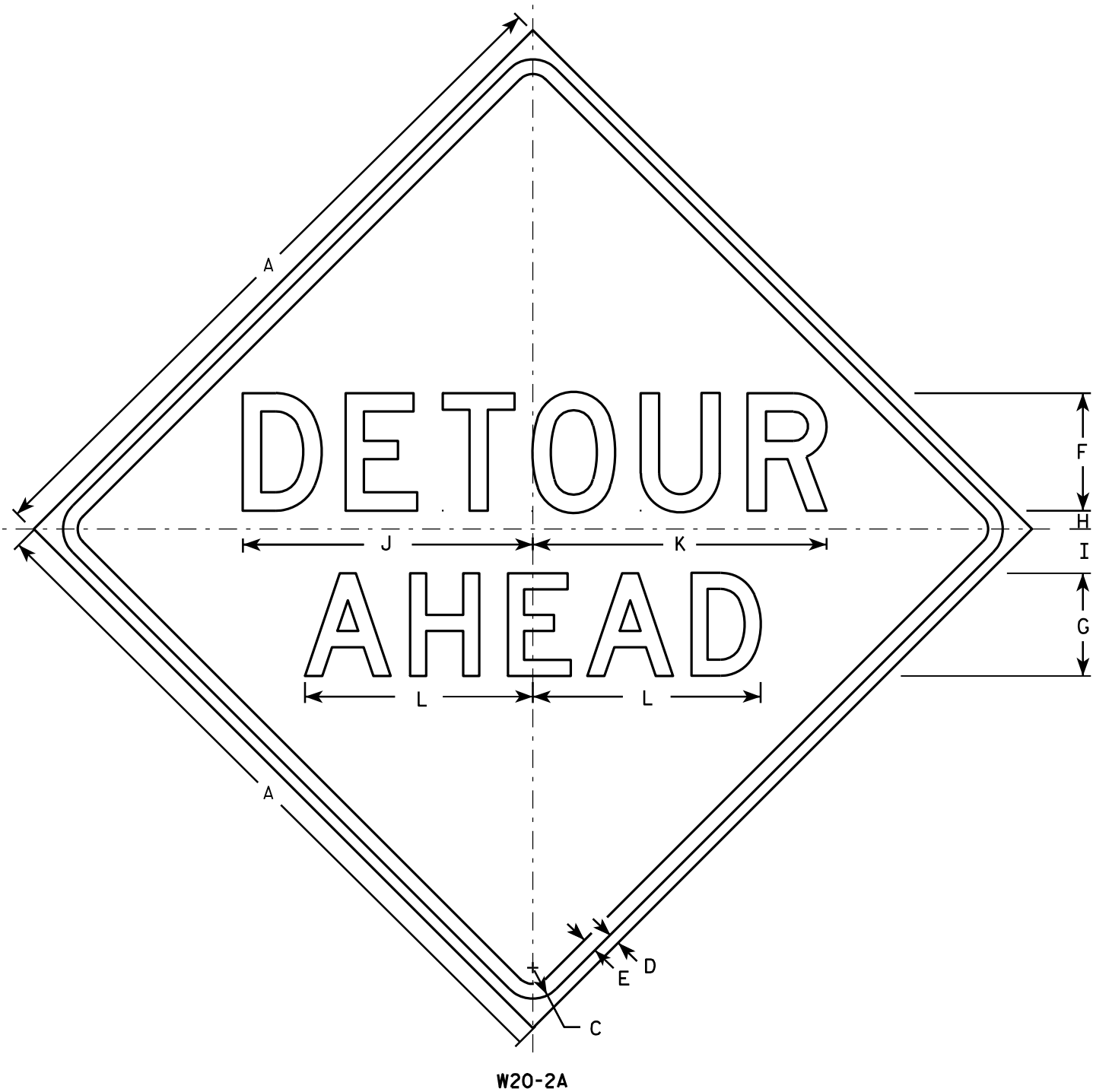
E

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
For State Traffic Engineer

DATE 3/18/11
PLATE NO. W20-1.9



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	Q	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

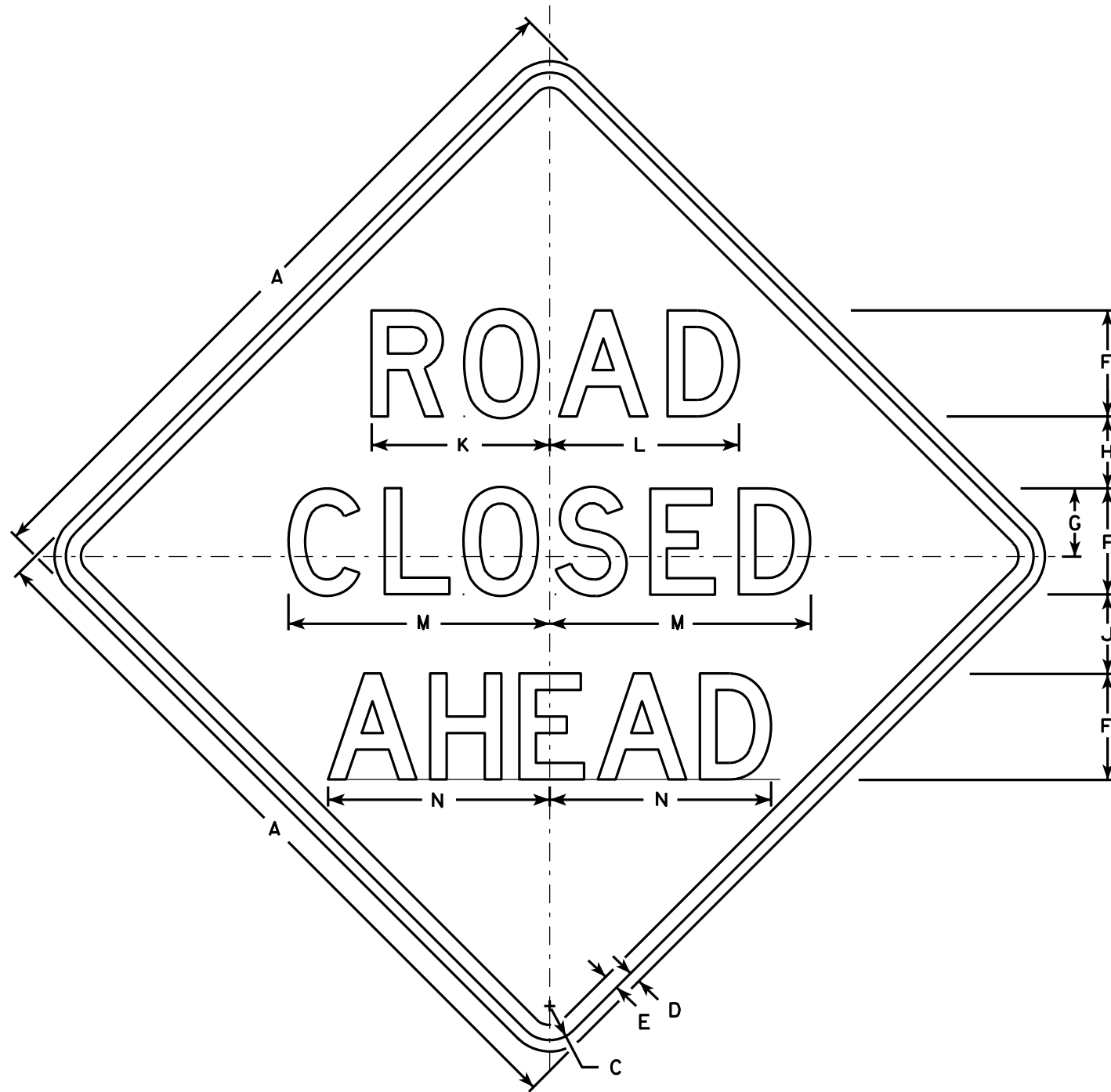
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



W20-3A

500 FT

W20-3D

1000 FT

W20-3C

1500 FT

W20-3B

1/2 MILE

W20-3G

1 MILE

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

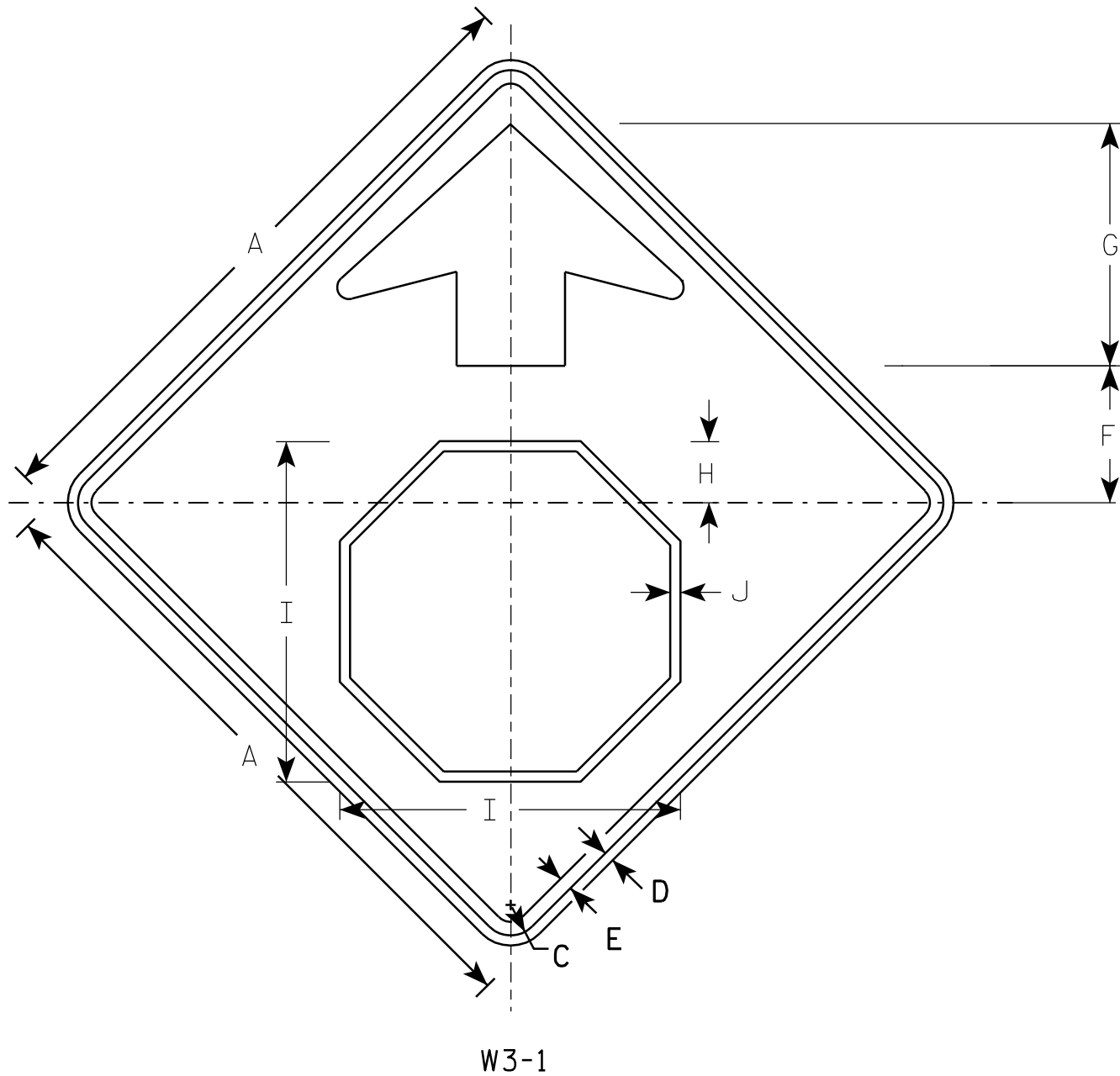
PROJECT NO:

HWY:

COUNTY:

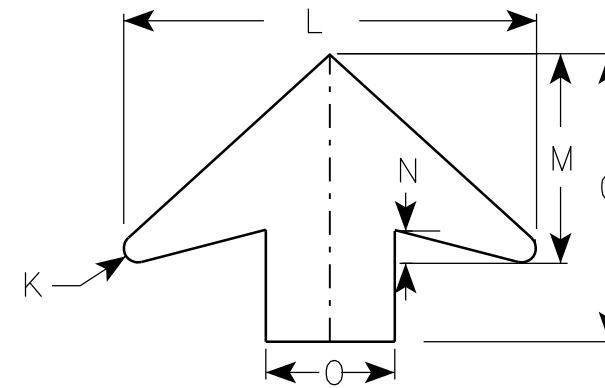
SHEET NO:

E



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

PROJECT NO:

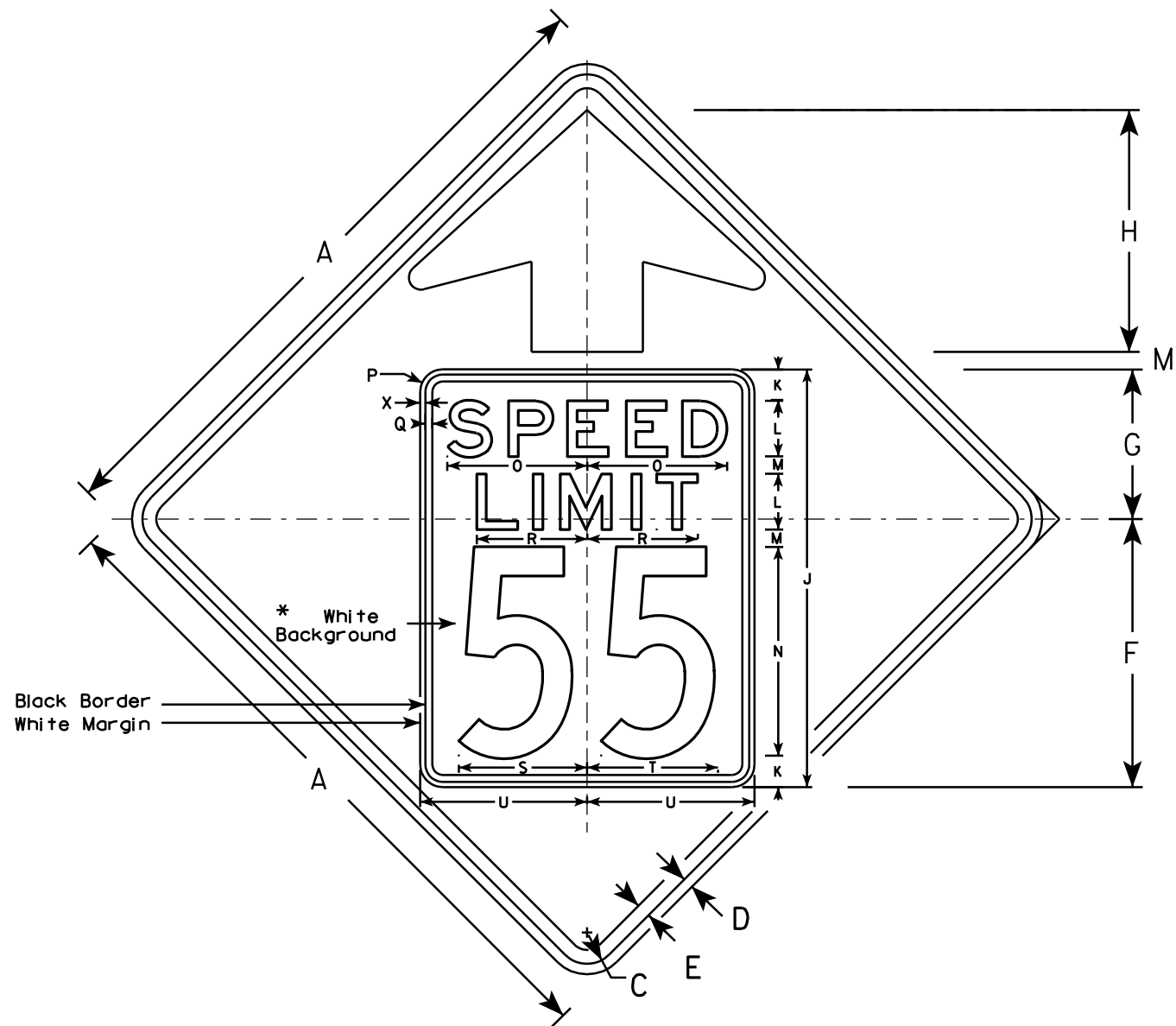
STANDARD SIGN
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/7/10 PLATE NO. W3-1.12

SHEET NO:

E

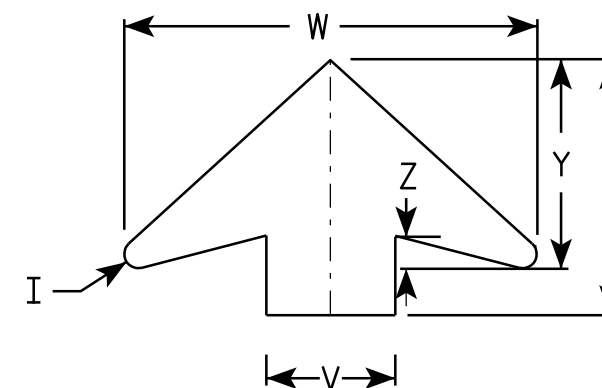


W3-5

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:

E



NO.	DATE	REVISION		BY
		TRANSPORTATION • MUNICIPAL DEVELOPMENT • ENVIRONMENTAL		
PROFESSIONAL SERVICES		1230 South Boulevard Baraboo, WI 53913 608-366-2771 1-800-362-4505 Fax: 608-366-2771		
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		6/19/11		
ACCEPTED <i>William C. Diehn</i> CHIEF STRUCTURES DESIGN ENGINEER	DATE			
STRUCTURE B-61-0016				
STH 121 OVER MAULE COULEE CREEK				
COUNTY	TREMPEALEAU	TOWN/CITY/VILLAGE	LINCOLN	
DESIGN SPEC.				
AASHTO LRFD BRIDGE DESIGN SPEC.				
DESIGNED BY	JRS	DESIGN CK'D.	LJR	DRAWN BY
			RLR	PLANS CK'D.
				LJ
GENERAL PLAN			SHEET 1 OF	

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST DIGIT OF A THREE DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS B-61-0016" SHALL BE THE EXISTING GROUND LINE.

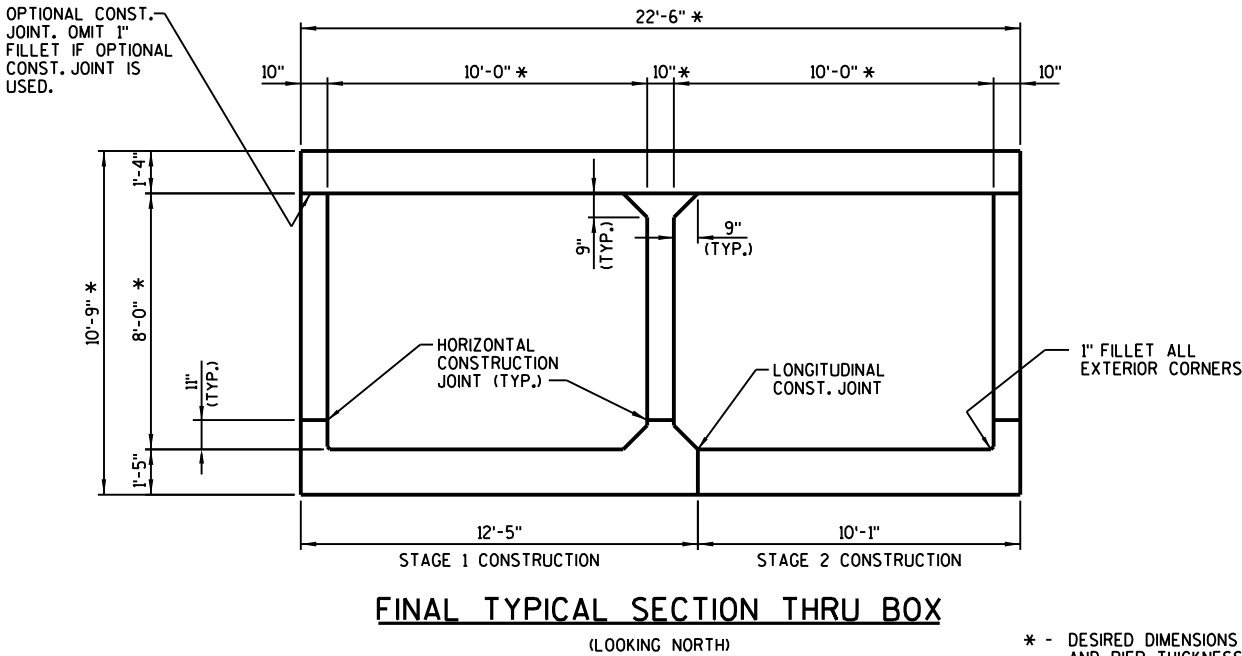
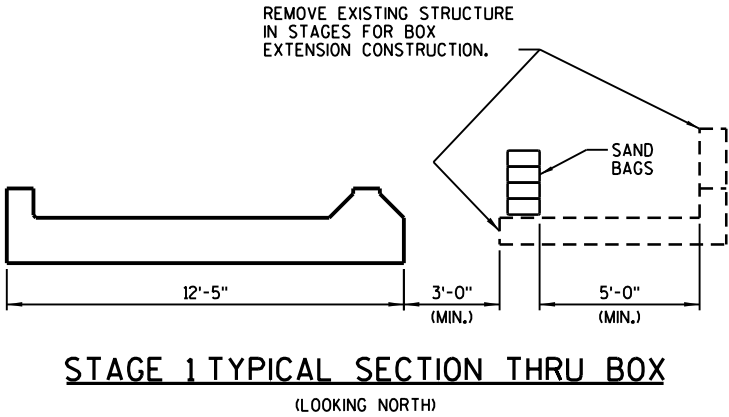
ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE. THE BACKFILL STRUCTURE ESTIMATED QUANTITIES ASSUMED VERTICAL FACE TEMPORARY SHORING WITHIN 5 FEET OF THE FINISHED STRUCTURE.

THE CONCRETE IN THE CUT OFF WALL MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THE ALTERNATE CUT OFF WALL MAY BE PLACED IN LIEU OF THE CAST-IN-PLACE CUT OFF WALLS. PAYMENT WILL BE BASED ON CONCRETE CUT OFF WALLS.

THE CONTRACTOR SHALL SUPPLY A NEW NAME PLATE IN ACCORDANCE WITH SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS AND THE STANDARD DETAIL DRAWINGS. NAME PLATE SHALL SHOW ORIGINAL CONSTRUCTION YEAR OF 1952.

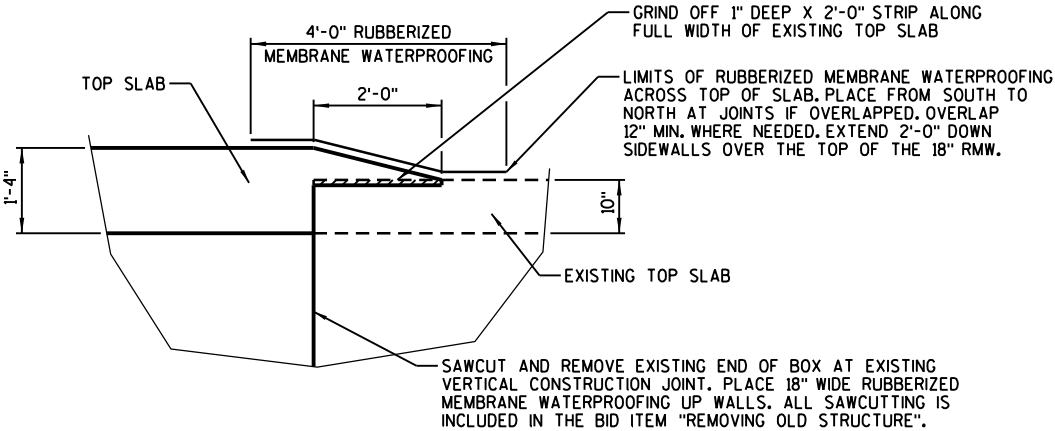
THIS STRUCTURE WILL REHABILITATE THE EXISTING STRUCTURE, B-61-0016, A 148 FT. LONG, TWIN CELL 10'W x 8'H CONCRETE BOX CULVERT.



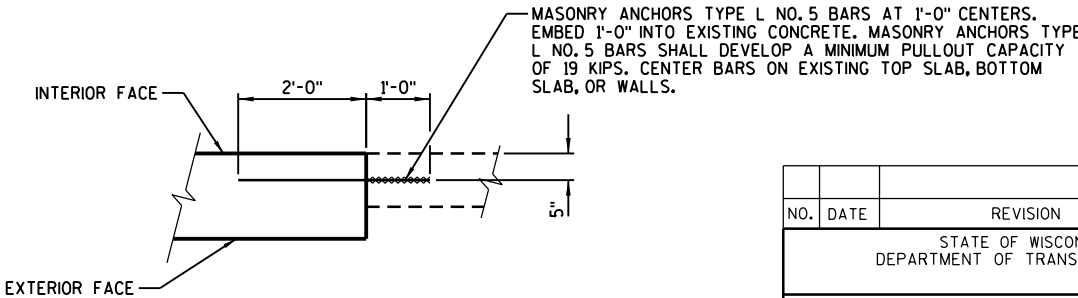
* - DESIRED DIMENSIONS SHOWN. MATCH OPENING AND PIER THICKNESS AT EXISTING BOX CULVERT.

STRUCTURE ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	TOTAL
203.0500.S.01	REMOVING OLD STRUCTURE OVER WATERWAY STATION 86+35.61	LS	1
206.2000.01	EXCAVATION FOR STRUCTURES CULVERTS B-61-0016	LS	1
206.6000.S	TEMPORARY SHORING	SF	4650
210.0100	BACKFILL STRUCTURE	CY	1480
311.0115	BREAKER RUN	CY	150
502.5005	MASONRY ANCHORS TYPE L NO. 5 BARS	EACH	146
504.0100	CONCRETE MASONRY CULVERTS	CY	376
505.0410	BAR STEEL REINFORCEMENT HS CULVERTS	LB	51130
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	50
606.0300	RI PRAP HEAVY	CY	145
645.0105	GEOTEXTILE FABRIC TYPE C	SY	490
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	315
SPV.0105.05	TEMPORARY WATER DIVERSION, STRUCTURE B-61-0016	LS	1
SPV.0105.06	REBUILD MASONRY FLUME FLOOR	LS	1
NON-BID ITEMS			
PREFORMED FILLER		SIZE	¾"



TOP SLAB TRANSITION AT EXISTING VERTICAL CONSTRUCTION JOINT



SECTION THRU VERTICAL CONSTRUCTION JOINT

(BOTTOM SLAB SHOWN, TOP SLAB AND WALLS SIMILAR)

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-61-0016			
DRAWN BY RLR		PLANS CK'D. LJR	
NOTES, QUANTITIES & DETAILS			SHEET 2 OF 9

FILE= 93136_02.dgn
DATE= 3/4/2014



MARK	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A301	30	6'-4"	X		TOP HEADER - STIRRUP - VERT.
A902	6	31'-4"			TOP HEADER - HORIZ.
A703	57	15'-1"			BOTTOM OF BOTTOM SLAB - STAGE 1 - TRANS.
A704	81	9'-10"			BOTTOM OF BOTTOM SLAB - STAGE 2 - TRANS.
A705	24	9'-3"		Ⓢ	BOTTOM OF BOTTOM SLAB - STAGE 1 - TRANS.
A706	18	5'-8"		Ⓢ	BOTTOM OF BOTTOM SLAB - STAGE 2 - TRANS.
A507	57	14'-9"			TOP OF BOTTOM SLAB - STAGE 1 - TRANS.
A508	81	9'-10"			TOP OF BOTTOM SLAB - STAGE 2 - TRANS.
A509	24	8'-11"		Ⓢ	TOP OF BOTTOM SLAB - STAGE 1 - TRANS.
A510	18	5'-8"		Ⓢ	TOP OF BOTTOM SLAB - STAGE 2 - TRANS.
A511	57	22'-2"			BOTTOM OF TOP SLAB - TRANS.
A512	42	11'-10"		Ⓢ	BOTTOM OF TOP SLAB - TRANS.
A613	57	22'-2"			TOP OF TOP SLAB - TRANS.
A614	42	11'-10"		Ⓢ	TOP OF TOP SLAB - TRANS.
A515	322	8'-4"	X		BOX CORNERS - VERT.
A416	82	3'-3"			WALL DOWELS - BOTTOM - VERT.
A417	82	3'-7"			PIER DOWELS - BOTTOM - VERT.
A418	82	9'-3"	X		PIER - TOP - VERT.
A419	82	8'-2"			WALLS - TOP - VERT.
A420	48	26'-3"			LONG WALL - LONGIT.
A421	24	29'-1"			SHORT WALL - LONGIT.
A422	48	20'-9"			PIER - LONGIT.
A423	40	16'-2"			TOP & BOTTOM SLAB - LONGIT.
A424	40	27'-0"			TOP & BOTTOM SLAB - LONGIT.
A425	80	20'-0"		Ⓢ	TOP & BOTTOM SLAB - LONGIT.
A326	30	6'-7"	X		BOTTOM HEADER - STIRRUP - VERT.
A927	6	22'-0"			BOTTOM HEADER - STAGE 1 - HORIZ.
A928	6	13'-11"			BOTTOM HEADER - STAGE 2 - HORIZ.
A529	73	3'-0"			VERTICAL CONST. JT. - DOWEL BARS - HORIZ.

⑤ - LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. BENT BARS IF USED IN BAR SERIES TABLE SHALL BE BENT AFTER CUTTING.

BAR MARK	NO. REQ'D.	LENGTH
A705	1 SERIES OF 24	3'-6" TO 15'-0"
A706	1 SERIES OF 18	1'-6" TO 9'-10"
A509	1 SERIES OF 24	3'-2" TO 14'-8"
A510	1 SERIES OF 18	1'-6" TO 9'-10"
A512	1 SERIES OF 42	1'-7" TO 22'-1"
A614	1 SERIES OF 42	1'-7" TO 22'-1"
A425	8 SERIES OF 10	15'-6" TO 24'-6"

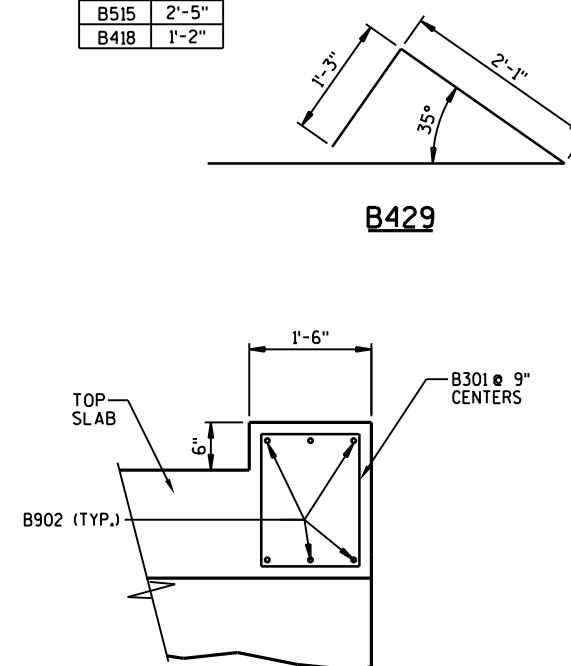
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE		B-61-0016	
DRAWN BY CAR		PLANS CK'D.	LJR
BOX CULVERT- INLET END		SHEET 3 OF 9	



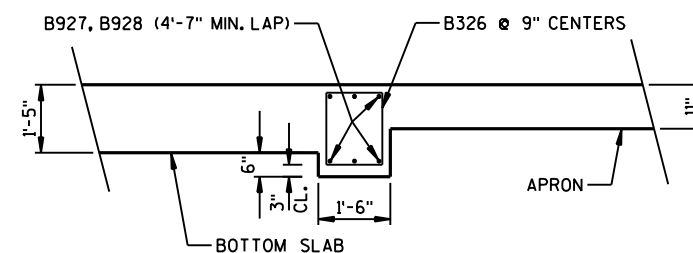
Technical drawing of a square plate. The drawing includes the following elements:

- A dimension line at the top left labeled "A" indicating a horizontal distance.
- Text "THIS" above the dimension line and "LEG HORIZ." below it.
- A square plate with a width dimension of $1'-7''$ and a height dimension of $1'-6''$.
- A break symbol (two parallel diagonal lines) in the bottom right corner of the square.
- The part number **B301, B326** centered below the square.

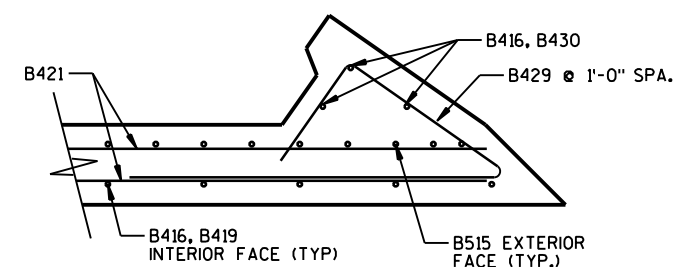
MARK	A
B515	2'-5"
B418	1'-2"



SECTION THRU TOP HEADER



SECTION THRU BOTTOM HEADER



CORNER DETAIL

UNCOATED 20,650 LBS.

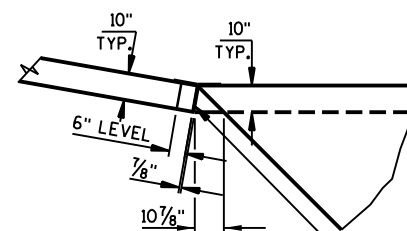
MARK	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B301	30	6'-7"	X		TOP HEADER - STIRRUP - VERT.
B902	6	31'-4"			TOP HEADER - HORIZ.
B703	72	15'-1"			BOTTOM OF BOTTOM SLAB - STAGE 1 - TRANS.
B704	57	9'-10"			BOTTOM OF BOTTOM SLAB - STAGE 2 - TRANS.
B705	27	8'-1"		Ⓢ	BOTTOM OF BOTTOM SLAB - STAGE 1 - TRANS.
B706	18	5'-7"		Ⓢ	BOTTOM OF BOTTOM SLAB - STAGE 2 - TRANS.
B507	72	14'-9"			TOP OF BOTTOM SLAB - STAGE 1 - TRANS.
B508	57	9'-10"			TOP OF BOTTOM SLAB - STAGE 2 - TRANS.
B509	27	8'-1"		Ⓢ	TOP OF BOTTOM SLAB - STAGE 1 - TRANS.
B510	18	5'-7"		Ⓢ	TOP OF BOTTOM SLAB - STAGE 2 - TRANS.
B511	57	22'-2"			BOTTOM OF TOP SLAB - TRANS.
B512	42	11'-10"		Ⓢ	BOTTOM OF TOP SLAB - TRANS.
B613	57	22'-2"			TOP OF TOP SLAB - TRANS.
B614	42	11'-10"		Ⓢ	TOP OF TOP SLAB - TRANS.
B515	320	8'-4"	X		BOX CORNERS - VERT.
B416	85	3'-3"			WALL DOWELS - BOTTOM - VERT.
B417	82	3'-7"			PIER DOWELS - BOTTOM - VERT.
B418	82	9'-3"	X		PIER - TOP - VERT.
B419	82	8'-2"			WALLS - TOP - VERT.
B420	48	26'-3"			LONG WALL - LONGIT.
B421	24	28'-6"			SHORT WALL - LONGIT.
B422	48	20'-9"			PIER - LONGIT.
B423	40	16'-2"			TOP & BOTTOM SLAB - LONGIT.
B424	40	27'-0"			TOP & BOTTOM SLAB - LONGIT.
B425	80	20'-0"		Ⓢ	TOP & BOTTOM SLAB - LONGIT.
B326	30	6'-7"	X		BOTTOM HEADER - STIRRUP - VERT.
B927	6	22'-0"			BOTTOM HEADER - STAGE 1 - HORIZ.
B928	6	13'-11"			BOTTOM HEADER - STAGE 2 - HORIZ.
B429	12	7'-3"	X		WING 4 CORNER STIRRUP - HORIZ.
B430	3	8'-8"			WING 4 CORNER - VERT.
B531	73	3'-0"			VERTICAL CONST. JT. - DOWEL BARS - HORIZ.

⑤ - LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. BENT BARS IF USED IN BAR SERIES TABLE SHALL BE BENT AFTER CUTTING.

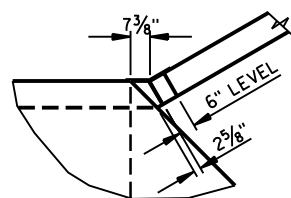
BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
B705	1 SERIES OF 27	1'-7" TO 14'-7"
B706	1 SERIES OF 18	1'-4" TO 9'-10"
B509	1 SERIES OF 27	1'-7" TO 14'-7"
B510	1 SERIES OF 18	1'-4" TO 9'-10"
B512	1 SERIES OF 42	1'-7" TO 22'-1"
B614	1 SERIES OF 42	1'-7" TO 22'-1"
R425	8 SERIES OF 10	15'-6" TO 24'-6"

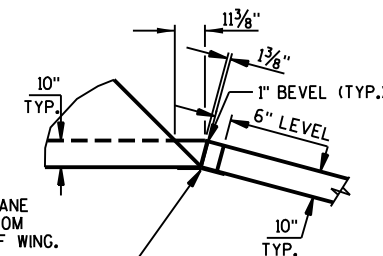
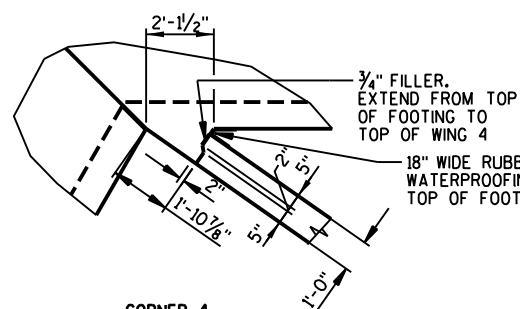
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE		B-61-0016	
		DRAWN BY CAR	PLANS CK'D. LJR
BOX CULVERT- OUTLET END		SHEET 4 OF 9	



3/4" FILLER (TYP.),
EXTEND FROM HORIZ.
CONST. JOINT TO
TOP OF WING.



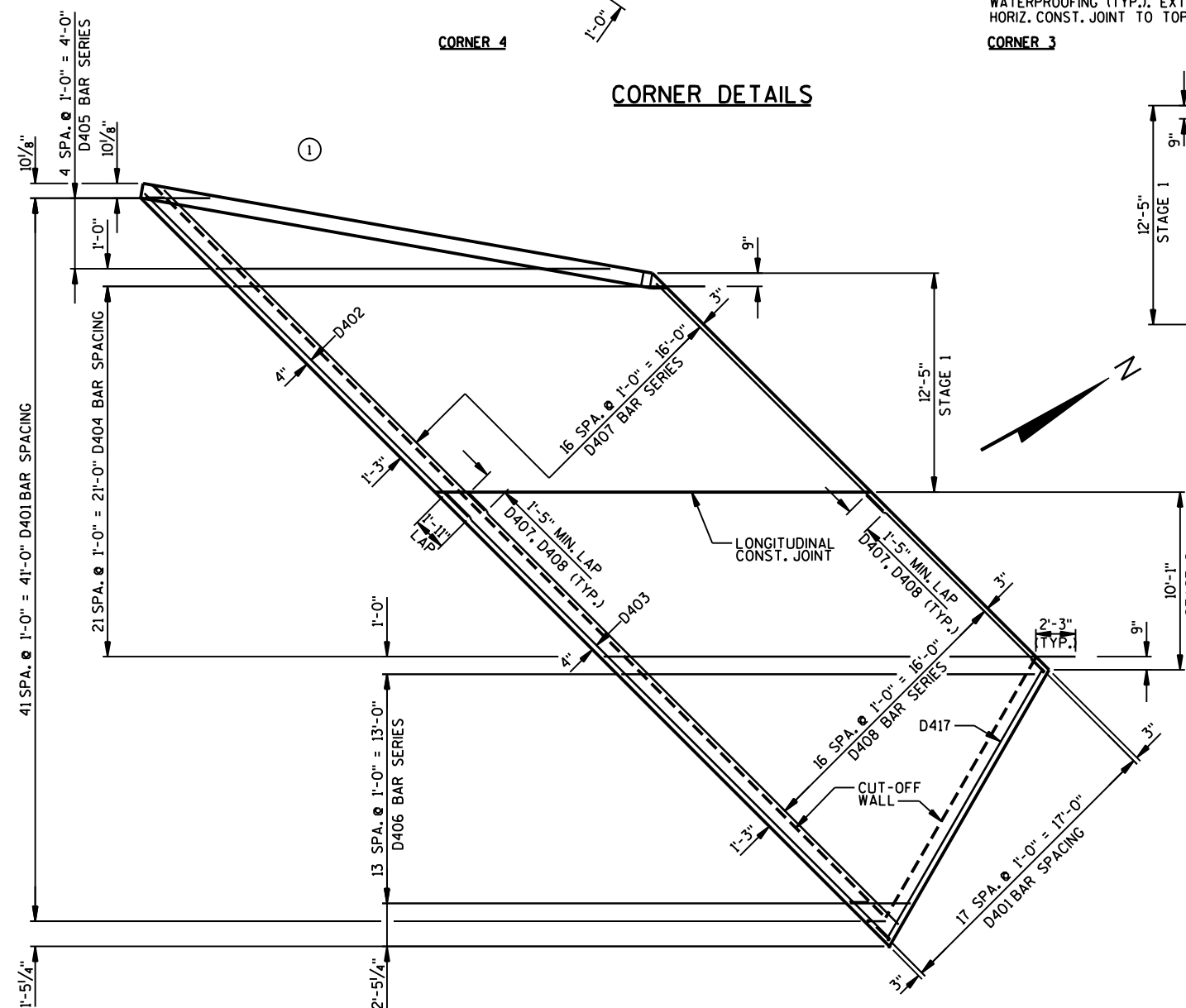
CORNERS



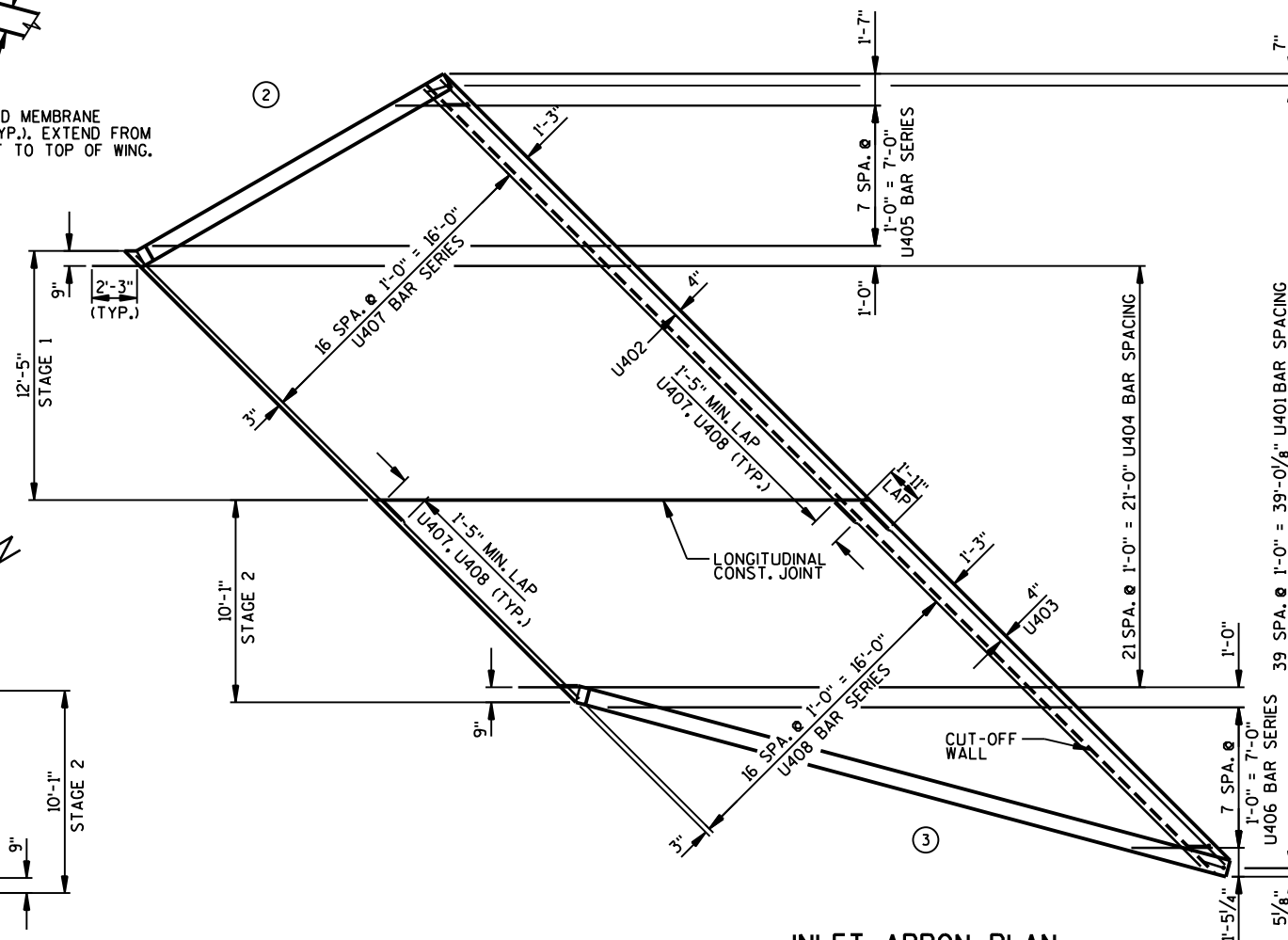
18" WIDE RUBBERIZED MEMBRANE
WATERPROOFING (TYP.), EXTEND FROM
HORIZ. CONST. JOINT TO TOP OF WING.

CORNERS

CORNER DETAILS



OUTLET APRON PLAN



INLET APRON PLAN

LEGEND

○ — INDICATES WING NUMBER

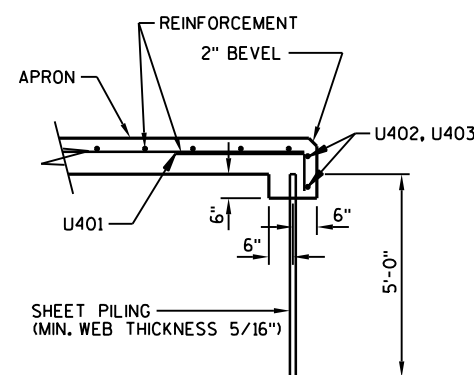
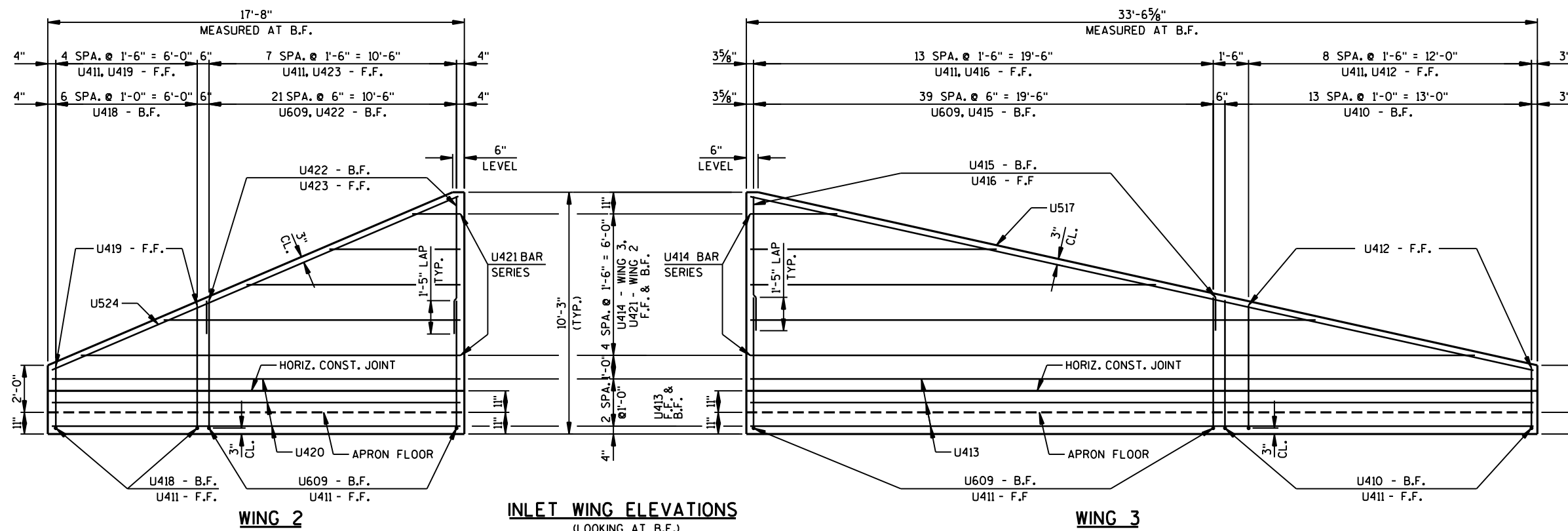
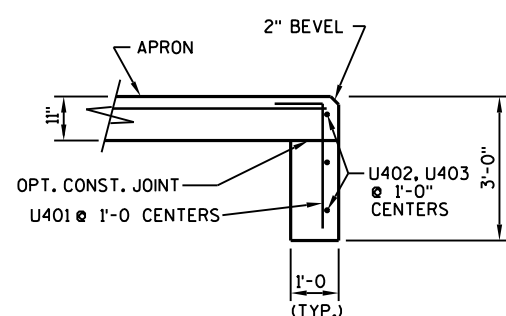
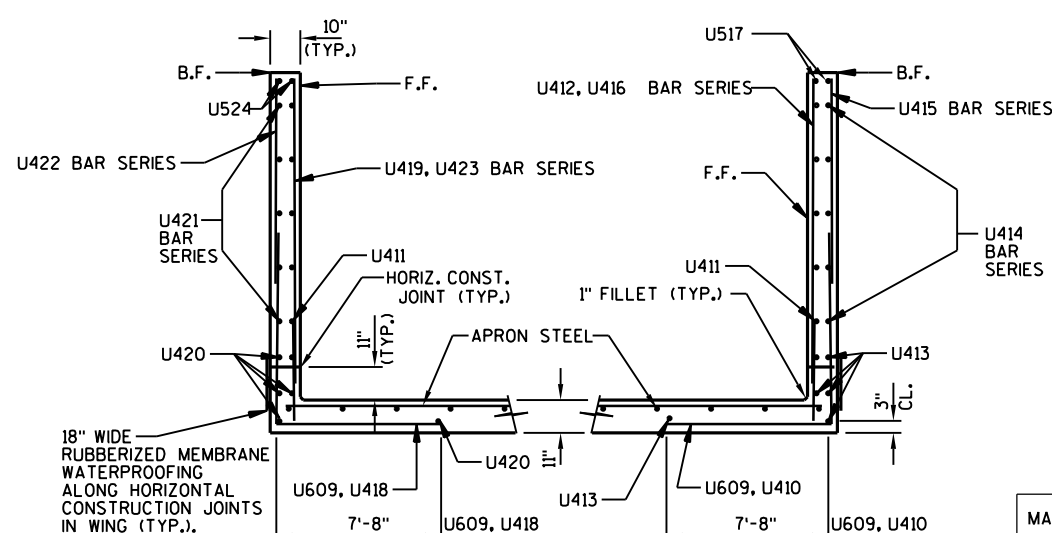
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-61-0016			
DRAWN BY CAR		PLANS CK'D. LJR	
INLET & OUTLET APRON PLANS			SHEET 5 OF 9

LEGEND

F.F.— FRONT FACE

B.F.— BACK FACE

CL.— CLEAR

**ALTERNATE CUT OFF WALL****SECTION THRU INLET CUT OFF WALL****SECTION THRU WINGS**
(NORMAL TO WINGWALLS)THIS LEG
HORIZ.

MARK	A
U401	1'-0"
U609	7'-8"
U410	7'-8"
U418	7'-8"

BAR SERIES TABLE

MARK	NO. REQUIRED	LENGTH
U405	1 SERIES OF 8	3'-8" TO 22'-10"
U406	1 SERIES OF 8	4'-0" TO 23'-2"
U407	1 SERIES OF 17	18'-9" TO 30'-5"
U408	1 SERIES OF 17	14'-1" TO 25'-9"
U410	1 SERIES OF 14	10'-2" TO 13'-0"
U412	1 SERIES OF 9	11" TO 3'-7"
U414	2 SERIES OF 5	3'-8" TO 30'-8"
U415	1 SERIES OF 40	1'-7" TO 5'-11"
U416	1 SERIES OF 14	3'-11" TO 8'-3"
U418	1 SERIES OF 7	10'-3" TO 12'-9"
U419	1 SERIES OF 5	1'-0" TO 3'-6"
U421	2 SERIES OF 5	2'-0" TO 16'-0"
U422	1 SERIES OF 22	1'-5" TO 5'-11"
U423	1 SERIES OF 8	4'-1" TO 8'-3"

BUNDLE AND TAG EACH SERIES SEPARATELY

BILL OF BARS**UNCOATED 3450 LBS.**

MARK	NUMBER REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
U401	40	3'-6"	X		INLET APRON CUT-OFF WALL - VERT.
U402	3	31'-7"			" " " " " STAGE 1 - TRANS.
U403	3	25'-7"			" " " " " STAGE 2 - "
U404	22	26'-10"			" " " " " - LONGIT.
U405	8	13'-3"		Ⓢ	" " " " " WING 2 - "
U406	8	13'-7"		Ⓢ	" " " " " 3 - "
U407	17	24'-7"		Ⓢ	" " " " " STAGE 1 - TRANS.
U408	17	19'-11"		Ⓢ	" " " " " STAGE 2 - "
U609	62	13'-0"	X		WINGS 2 & 3 - B.F. DOWELS - VERT.
U410	14	11'-7"	X	Ⓢ	WING 3 - B.F. " - "
U411	36	3'-0"			WINGS 2 & 3 - F.F. " - "
U412	9	2'-3"		Ⓢ	WING 3 - F.F. " - "
U413	6	33'-2"			" " - F.F. & B.F. - LONGIT.
U414	10	17'-2"		Ⓢ	" " - F.F. & B.F. - VERT.
U415	40	3'-9"		Ⓢ	" " - B.F. - VERT.
U416	14	6'-1"		Ⓢ	" " - F.F. - "
U517	2	34'-0"			" " - F.F. & B.F. - TOP - LONGIT.
U418	7	11'-6"	X	Ⓢ	WING 2 - B.F. DOWELS - VERT.
U419	5	2'-3"		Ⓢ	" " - F.F. - "
U420	6	17'-4"			" " - F.F. & B.F. - LONGIT.
U421	10	9'-0"		Ⓢ	" " - F.F. & B.F. - "
U422	22	3'-8"		Ⓢ	" " - B.F. - VERT.
U423	8	6'-0"		Ⓢ	" " - F.F. - "
U524	2	18'-9"			" " - F.F. & B.F. - TOP - LONGIT.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

Ⓢ - LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. BENT BARS IF USED IN BAR SERIES TABLE SHALL BE BENT AFTER CUTTING.

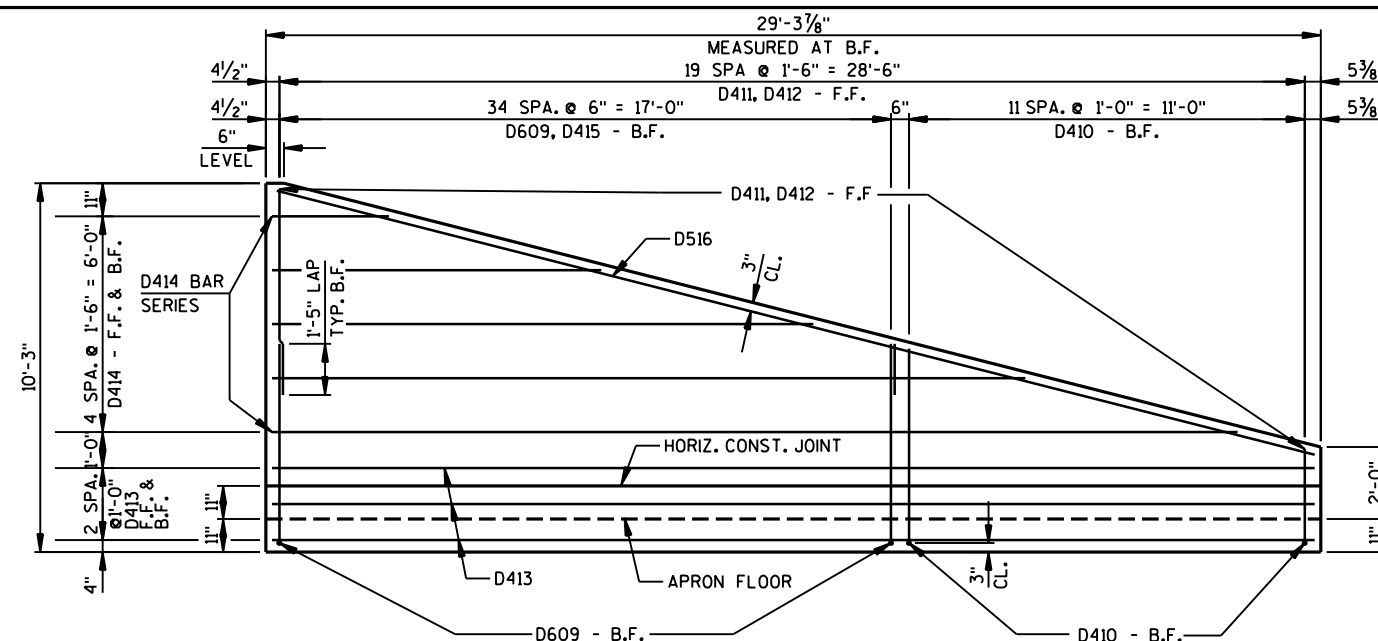
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-61-0016			
DRAWN BY CAR		PLANS CK'D. LJR	
INLET APRON & WING DETAILS		SHEET 6 OF 9	

LEGEND

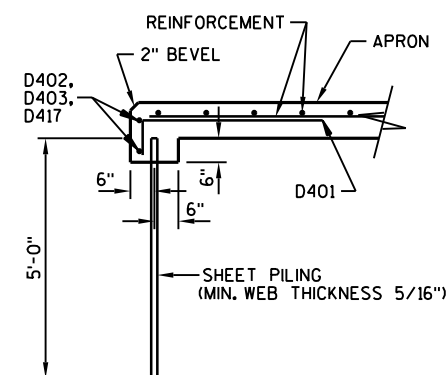
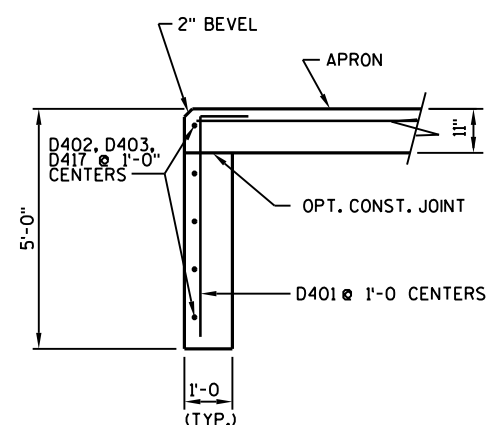
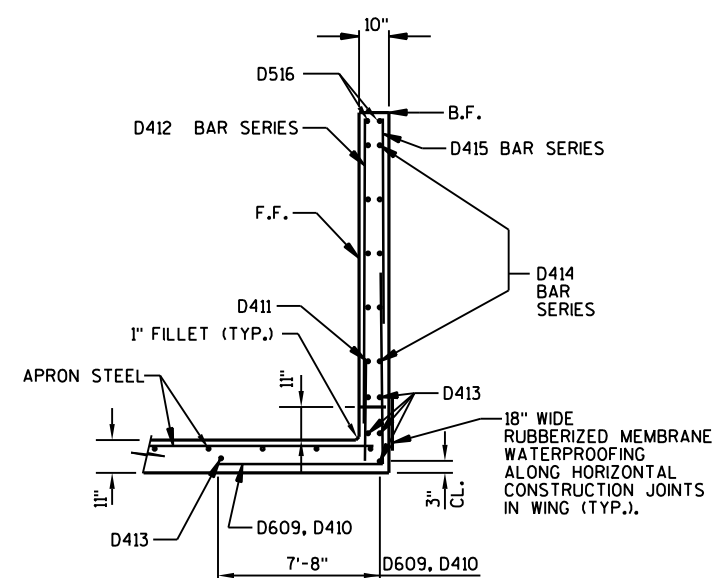
F.F.— FRONT FACE

B.F.— BACK FACE

CL.— CLEAR

**WING 1****OUTLET WING ELEVATION**

(LOOKING AT B.F.)

**ALTERNATE CUT OFF WALL****SECTION THRU
OUTLET CUT OFF WALL****WING 1****SECTION THRU WING**

(NORMAL TO WINGWALL)

THIS LEG
HORIZ.

MARK	A
D401	1'-0"
D609	7'-8"
D410	7'-8"

BAR SERIES TABLE

MARK	NO. REQUIRED	LENGTH
D405	1 SERIES OF 5	3'-8" TO 22'-4"
D406	1 SERIES OF 14	3'-5" TO 23'-11"
D407	1 SERIES OF 17	18'-10" TO 25'-8"
D408	1 SERIES OF 17	14'-3" TO 34'-7"
D410	1 SERIES OF 12	10'-2" TO 13'-0"
D412	1 SERIES OF 20	1'-0" TO 8'-2"
D414	2 SERIES OF 5	3'-3" TO 26'-9"
D415	1 SERIES OF 35	1'-5" TO 5'-9"

BUNDLE AND TAG EACH SERIES SEPARATELY

BILL OF BARS**UNCOATED 2830 LBS.**

MARK	NUMBER REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
D401	60	5'-6"	X		OUTLET APRON CUT-OFF WALL - VERT.
D402	5	25'-11"			" " " " " STAGE 1 - TRANS.
D403	5	35'-9"			" " " " " STAGE 2 - TRANS.
D404	22	26'-10"			" " " " " - LONGIT.
D405	5	13'-0"		⊙	" " " " " @ WING 1 - "
D406	14	13'-8"		⊙	" " " " " 4 - "
D407	17	22'-3"		⊙	" " " " " STAGE 1 - TRANS.
D408	17	24'-5"		⊙	" " " " " STAGE 2 - "
D609	35	13'-1"	X		WING 1 - B.F. DOWELS - "
D410	12	11'-7"	X	⊙	" " " " " - "
D411	20	3'-0"			WING 1 - F.F. " - "
D412	20	4'-7"		⊙	" " " " " - "
D413	6	28'-11"			" " - F.F. & B.F. - LONGIT.
D414	10	15'-0"		⊙	" " " " " " - "
D415	35	3'-7"		⊙	" " - B.F. - VERT.
D516	2	29'-9"			WING 1 - F.F. & B.F. - TOP - LONGIT.
D417	5	17'-9"			OUTLET APRON CUT-OFF WALL @ FLUME - TRANS.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

⊙ - LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. BENT BARS IF USED IN BAR SERIES TABLE SHALL BE BENT AFTER CUTTING.



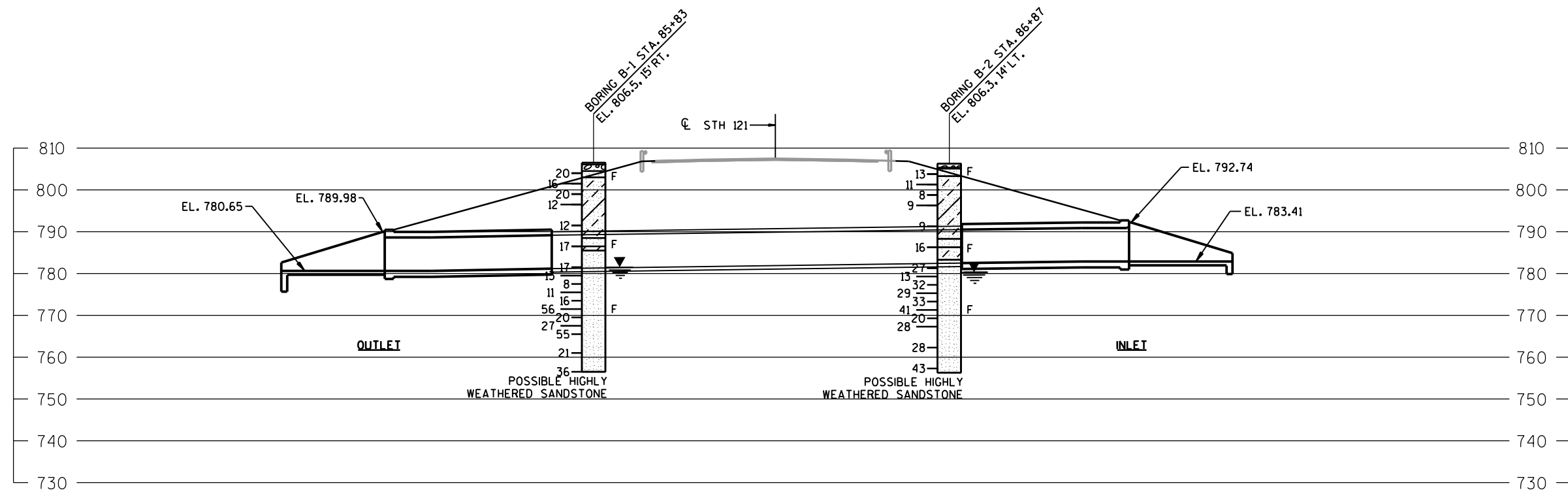
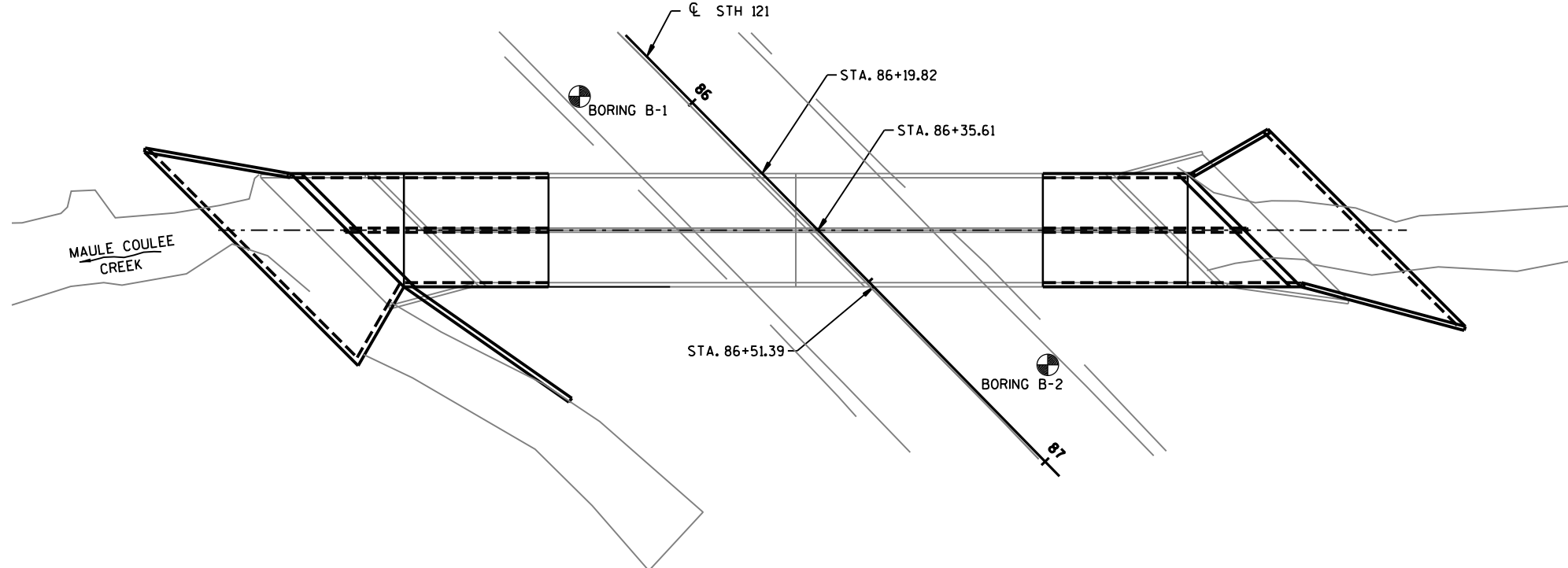
MARK	NO. REQ'D.	LENGTH	BENT	LOCATION
W401	36	4'-0"	X	FOOTING BOTTOM KEY - STIRRUP - VERT.
W402	18	12'-1"	X	FOOTING BOTTOM & F.F. WALL - VERT.
W403	20	10'-7"	X	FOOTING BOTTOM & F.F. WALL - VERT.
W604	54	8'-6"	X	FOOTING BOTTOM & B.F. WALL - VERT.
W605	26	8'-2"		FOOTING TOP - TRANS.
W506	20	6'-8"		FOOTING TOP - TRANS.
W407	22	9'-8"		FOOTING TOP & BOTTOM - LONGIT.
W408	22	11'-8"		FOOTING TOP & BOTTOM - LONGIT.
W409	36	9'-8"		FOOTING TOP & BOTTOM - LONGIT.
W610	34	9'-8"		WALL - B.F. - VERT.
W511	20	6'-5"		WALL - B.F. - VERT.
W412	18	9'-0"		WALL - F.F. - VERT.
W413	20	6'-1"		WALL - F.F. - VERT.
W414	4	7'-9"		WALL - F.F. & B.F. - LONGIT.
W415	4	17'-9"		WALL - F.F. & B.F. - LONGIT.
W416	4	27'-9"		WALL - F.F. & B.F. - LONGIT.
W417	16	37'-9"		WALL - F.F. & B.F. - LONGIT.
W418	4	9'-7"		FOOTING BOTTOM KEY - LONGIT.
W419	4	7'-7"		FOOTING BOTTOM KEY - LONGIT.
W420	20	6'-6"	X	FOOTING BOTTOM @ STEPS - LONGIT.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-61-0016			
DRAWN BY LJR		PLANS CK'D. JRS	
WING 4 DETAILS		SHEET 8 OF 9	

FILE= 93136_08.dgn
DATE= 2/28/2014

BORINGS PERFORMED BY AND SUBSURFACE REPORT PREPARED BY:
NUMMELIN TESTING SERVICES, INC.
STEVENS POINT, WISCONSIN
BORINGS COMPLETED ON 4-4-2013

PLANS PREPARED BY:
MSA PROFESSIONAL SERVICES, INC.
BARABOO, WISCONSIN



STATE PROJECT NUMBER

7505-00-71

ABBREVIATIONS

F— FINE M— MEDIUM C— COARSE
WS— WEATHERED SO— SOUND

MATERIAL SYMBOLS

TOPSOIL SILT SANDSTONE
SAND PEAT LIMESTONE
GRAVEL CLAY IGNEOUS ROCK

LEGEND OF PROBING

PROBING NO.
STA.
ELEVATION
7 AVERAGE BLOWS PER FOOT
REFUSAL 95/6
95/6=95 BLOWS FOR 6" PENETRATION
PROBING TAKEN WITH A 350# WT. FALLING 18" ON A 2" O.D. POINT.

LEGEND OF BORING

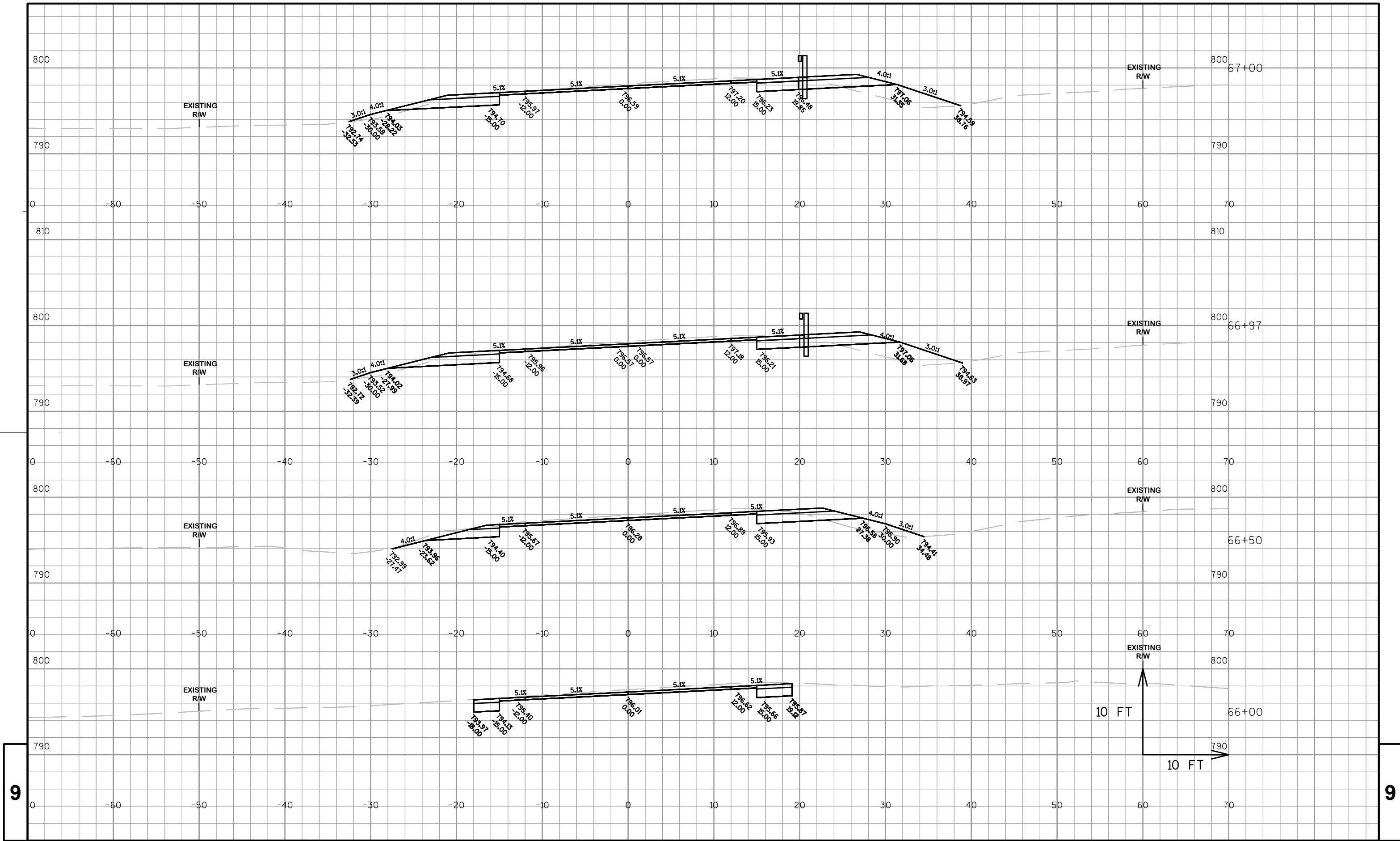
BORING NO.
STA.
ELEV.
UNCONFINED STRENGTH 7.7
BLOWS PER FT. USING 140# WT. FALLING 30"
WASH SAMPLE
SHELBY TUBE — S.T.
GROUND WATER ELEVATION
NO GROUND WATER OBSERVED ABOVE THIS ELEVATION
SANDY GRAVEL
F. BOULDERS OR COBBLES
SAND
SILTY CLAY
SO
LIMESTONE

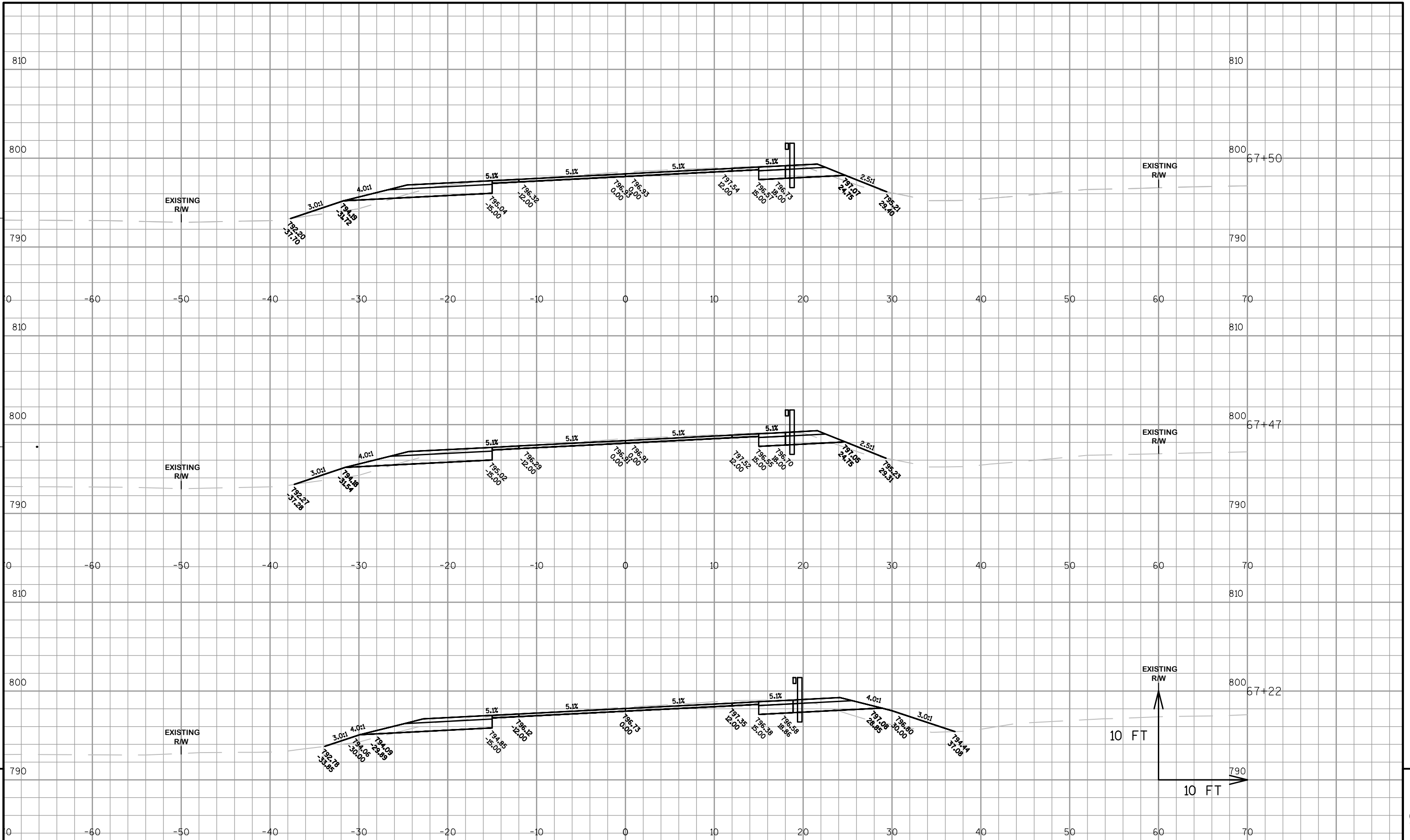
UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

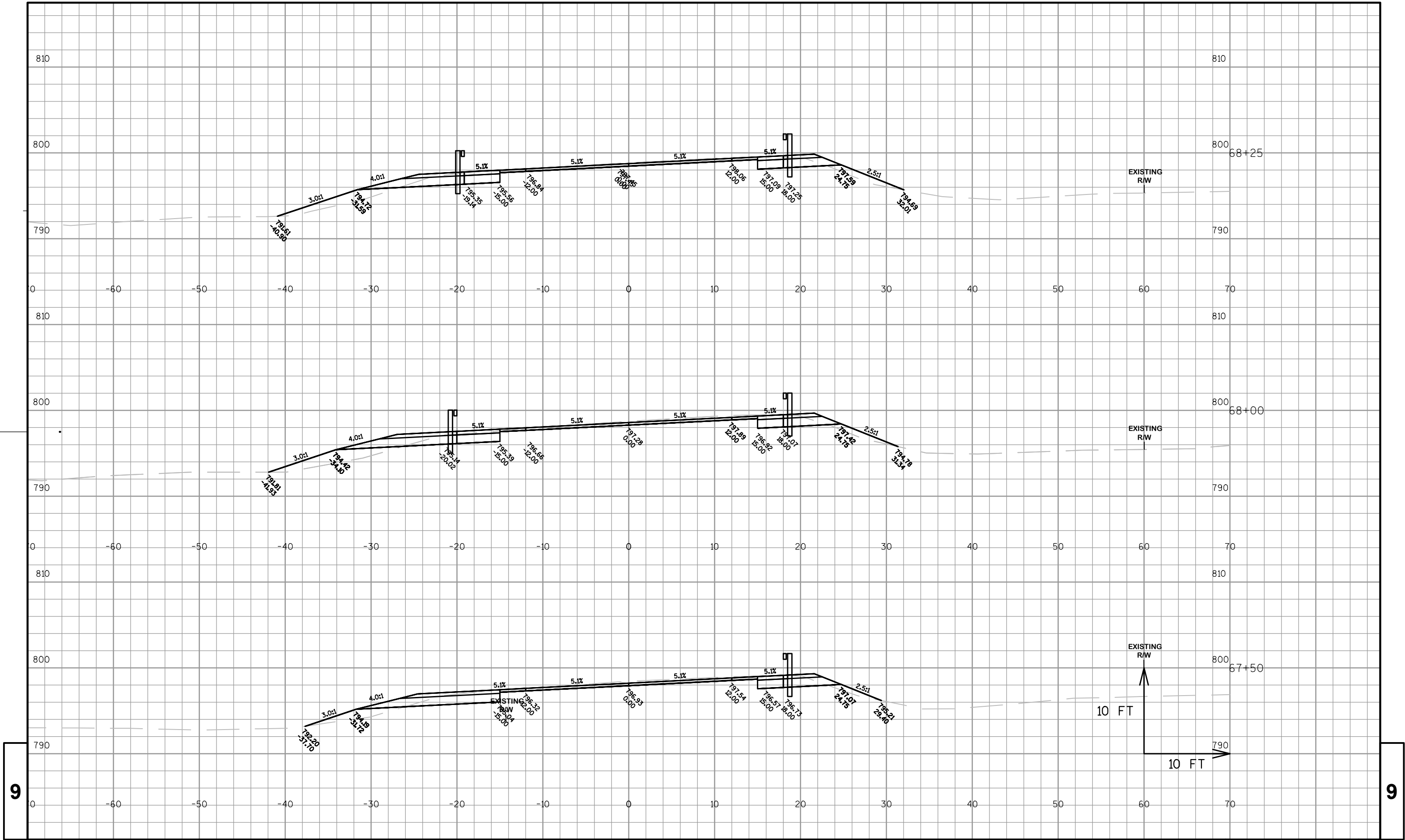
SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

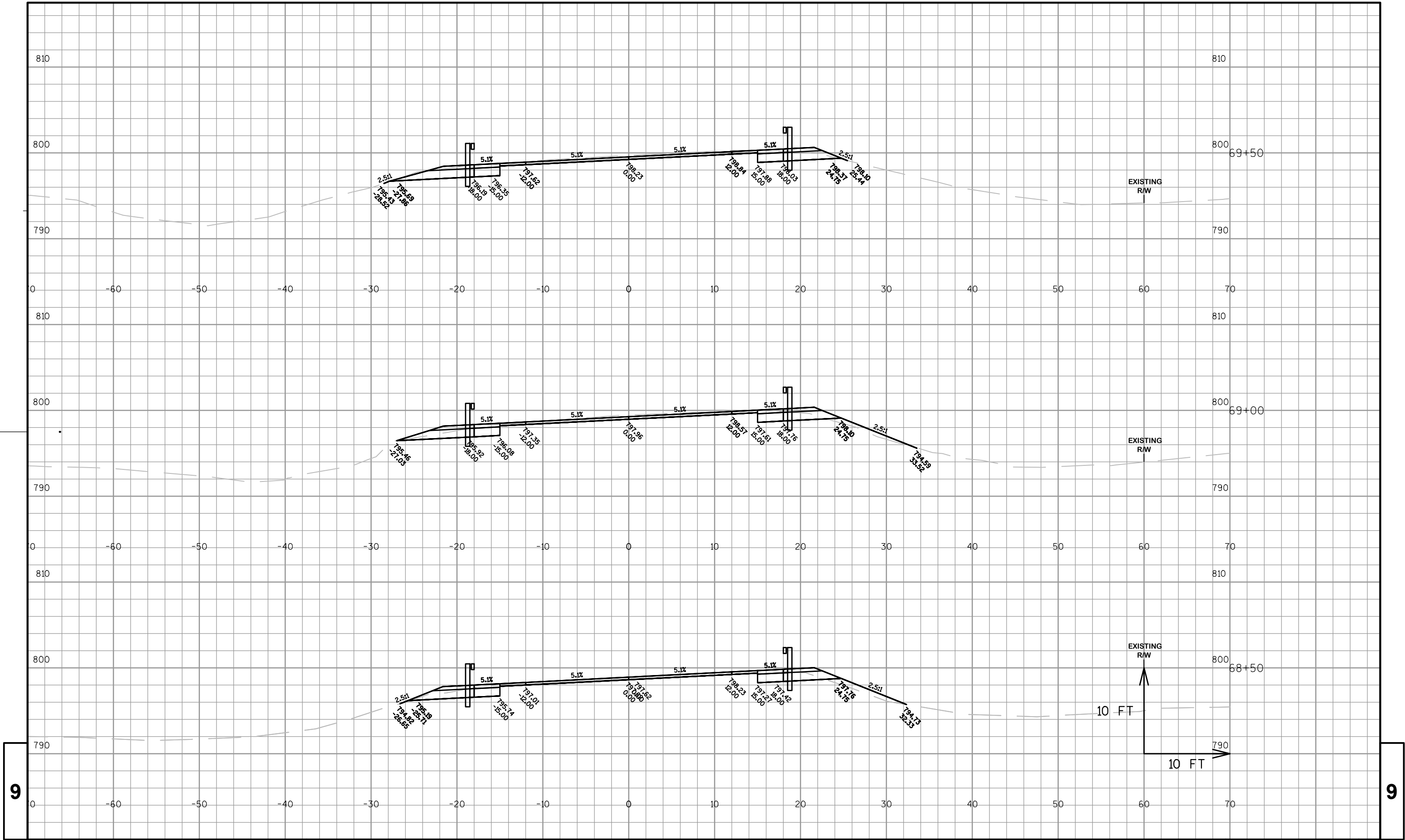
TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-61-0016			
DRAWN BY		RLR	PLANS CK'D. LJR
SUBSURFACE EXPLORATION		SHEET 9 OF 9	









PROJECT NO: 7505-00-71

HWY: STH 121

COUNTY: TREMPLEAU

CROSS SECTIONS: BEAM GUARD WIDENINGS

SHEET

E

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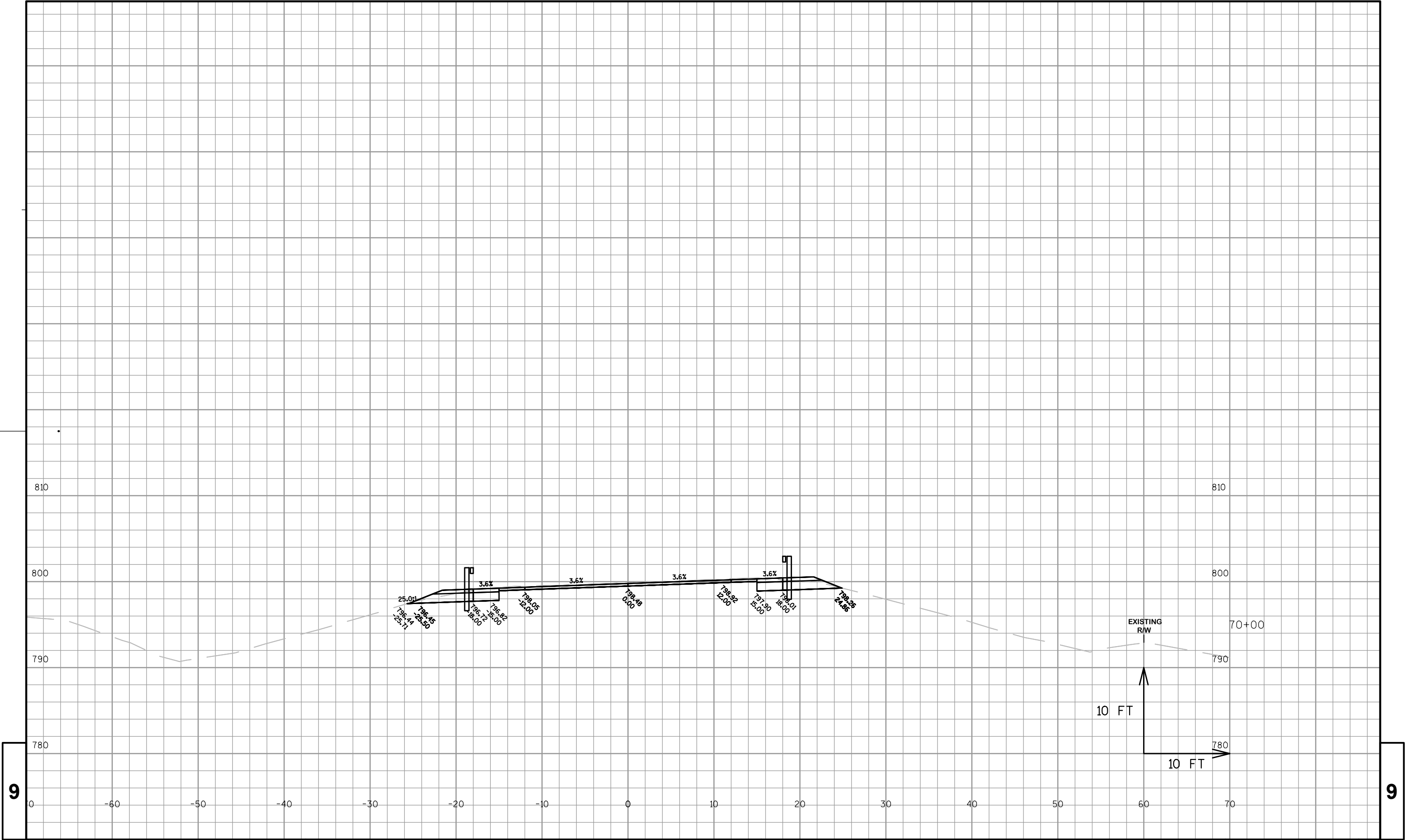
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PLOT BY : PHIL SAEGER

PLOT NAME :

PLOT SCALE : 1" = 10'-XREF

WISDOT/CADD SHEET 49



9

9

PROJECT NO: 7505-00-71

HWY: STH 121

COUNTY: TREMPLEAU

CROSS SECTIONS: BEAM GUARD WIDENINGS

SHEET

E

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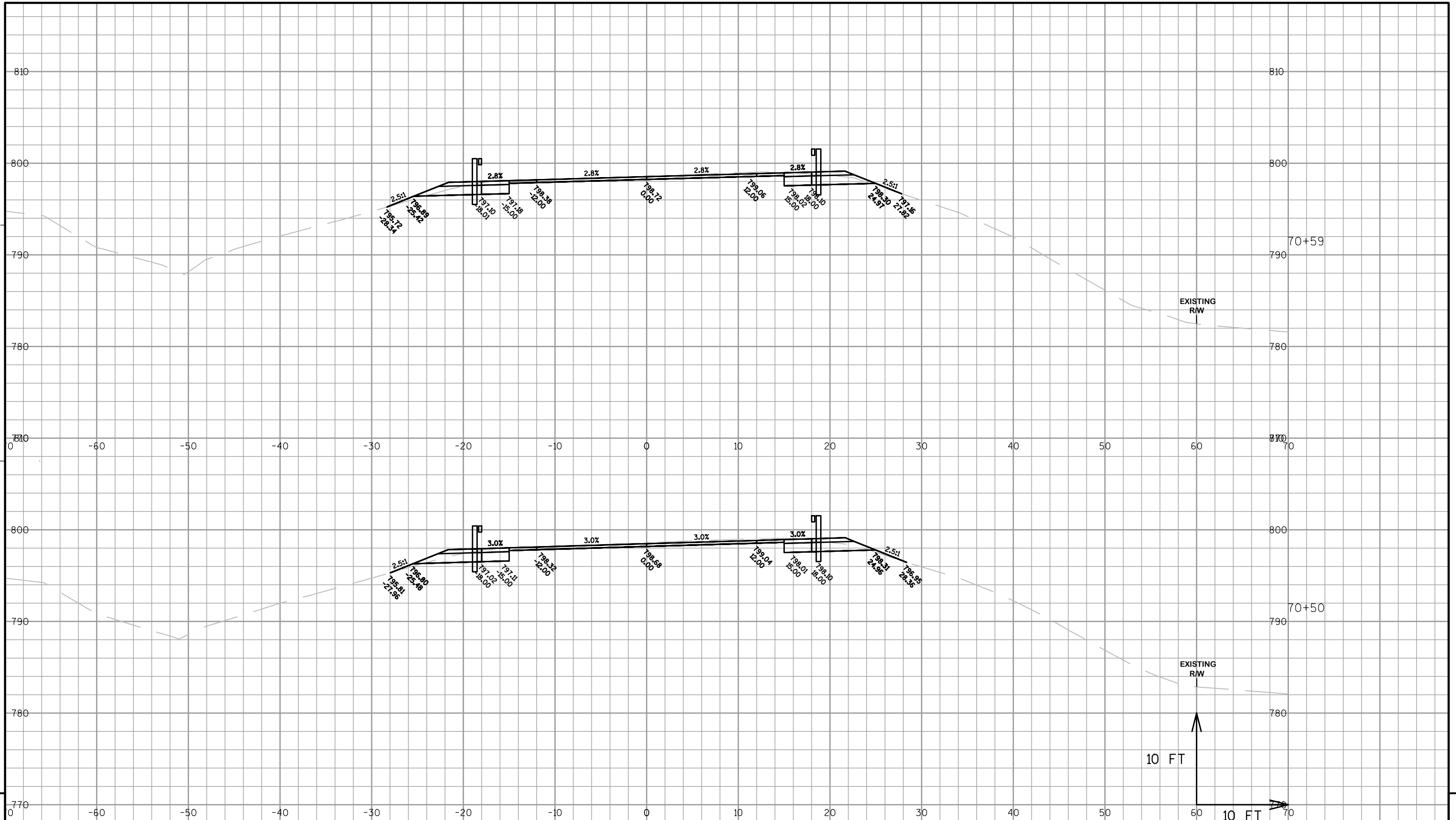
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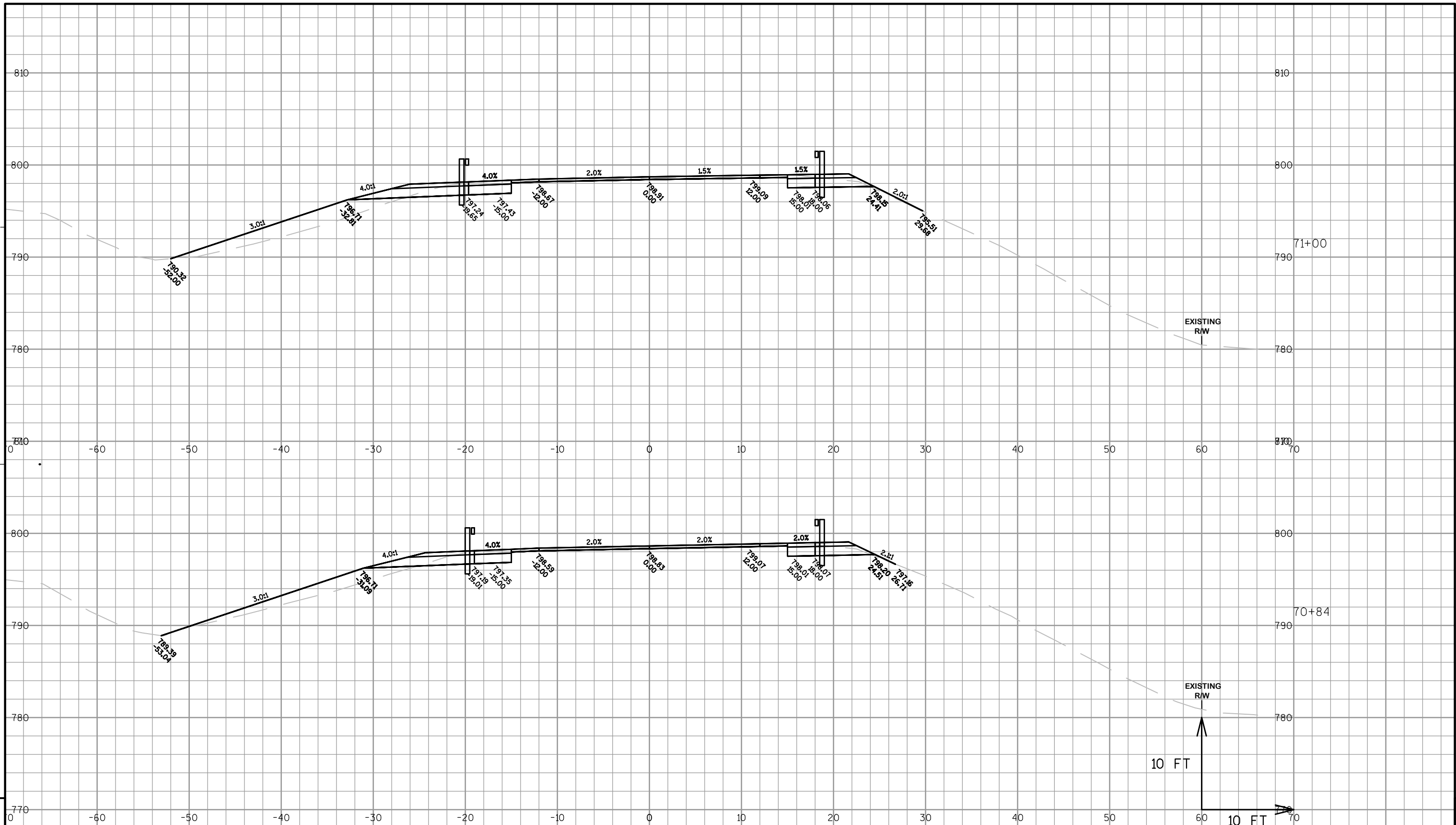
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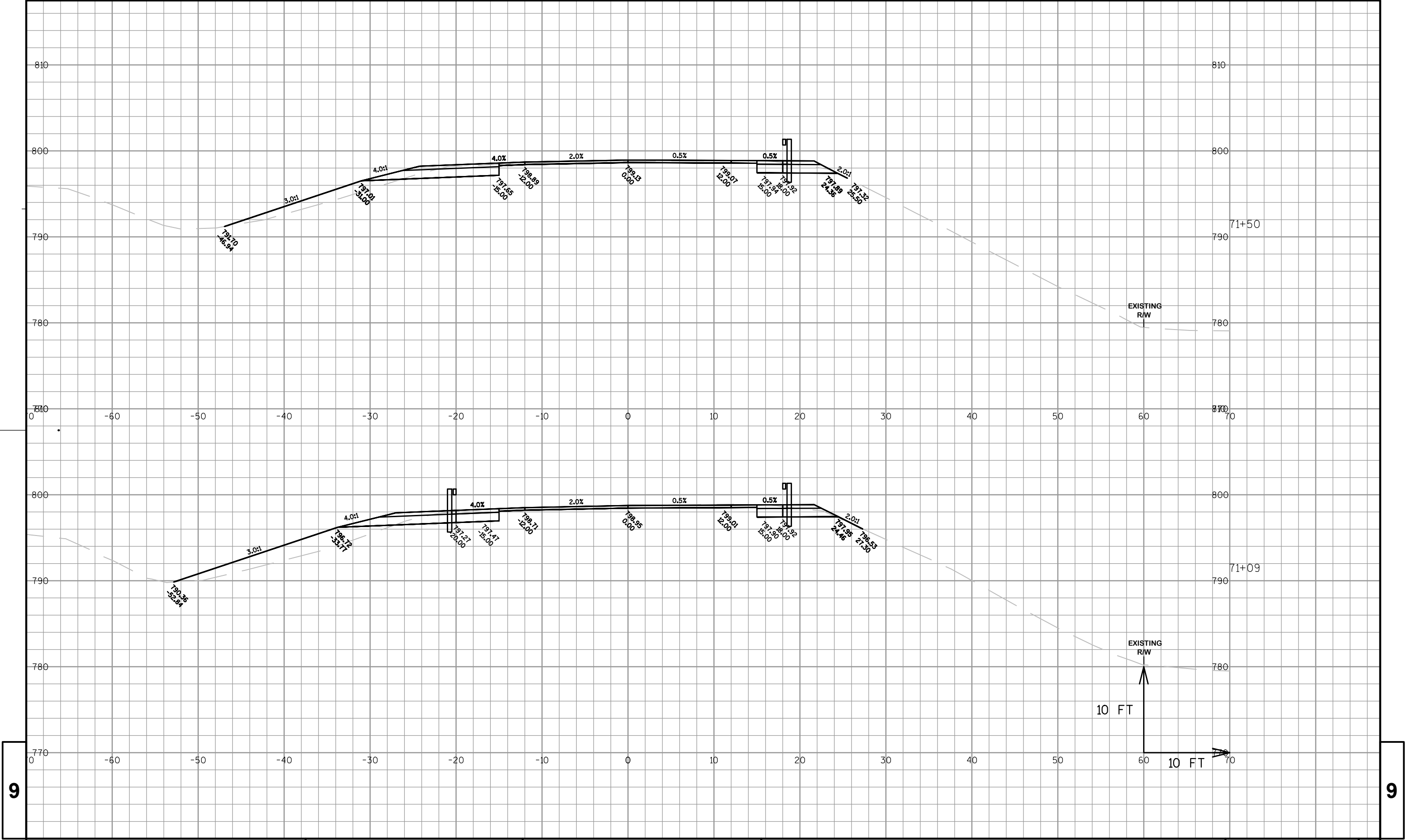
WISDOT/CADDs SHEET 49

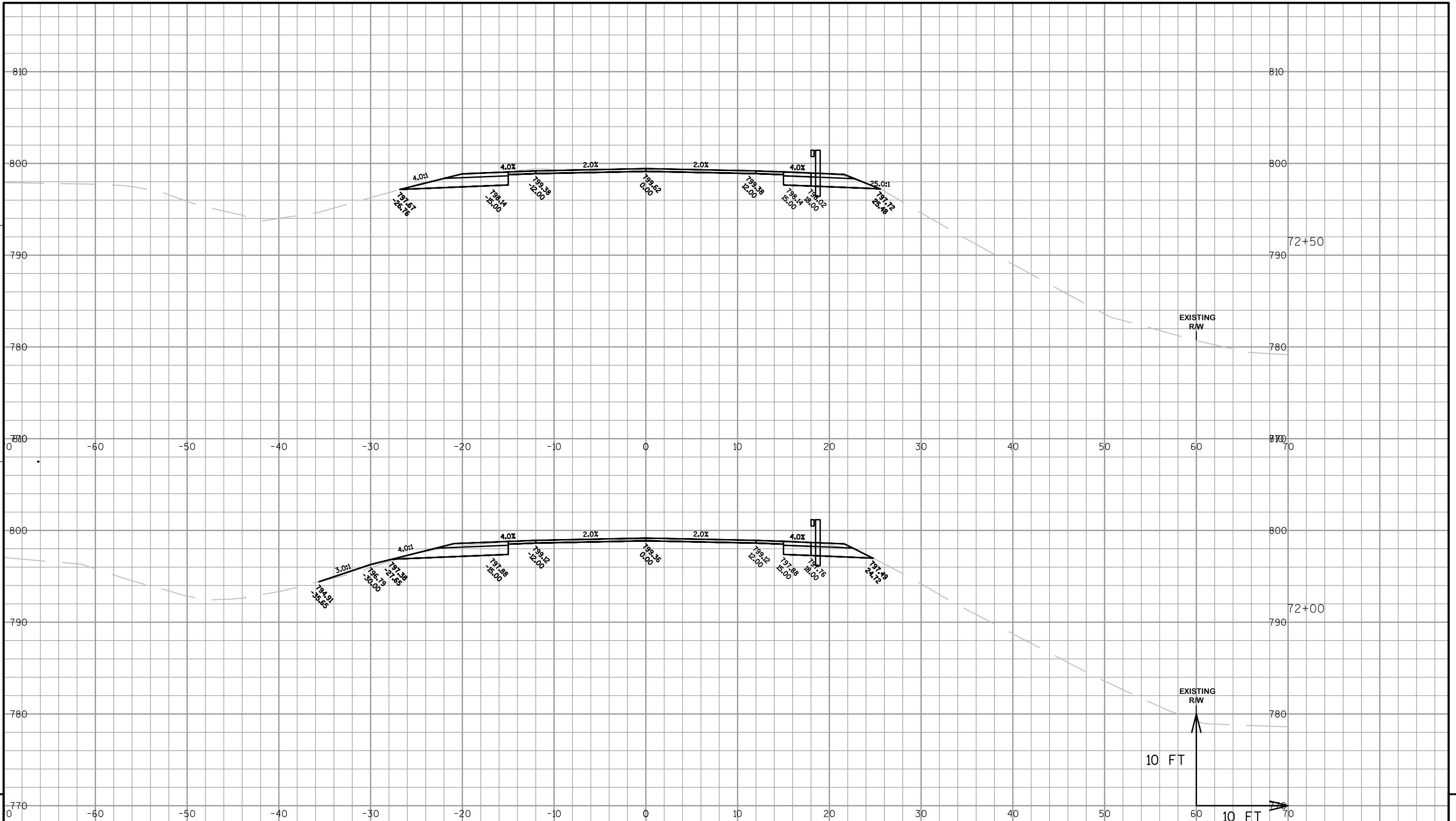


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PROJECT NO: 7505-00-71

HWY: STH 121

COUNTY: TREMPLEAU

CROSS SECTIONS: BEAM GUARD WIDENINGS

SHEET

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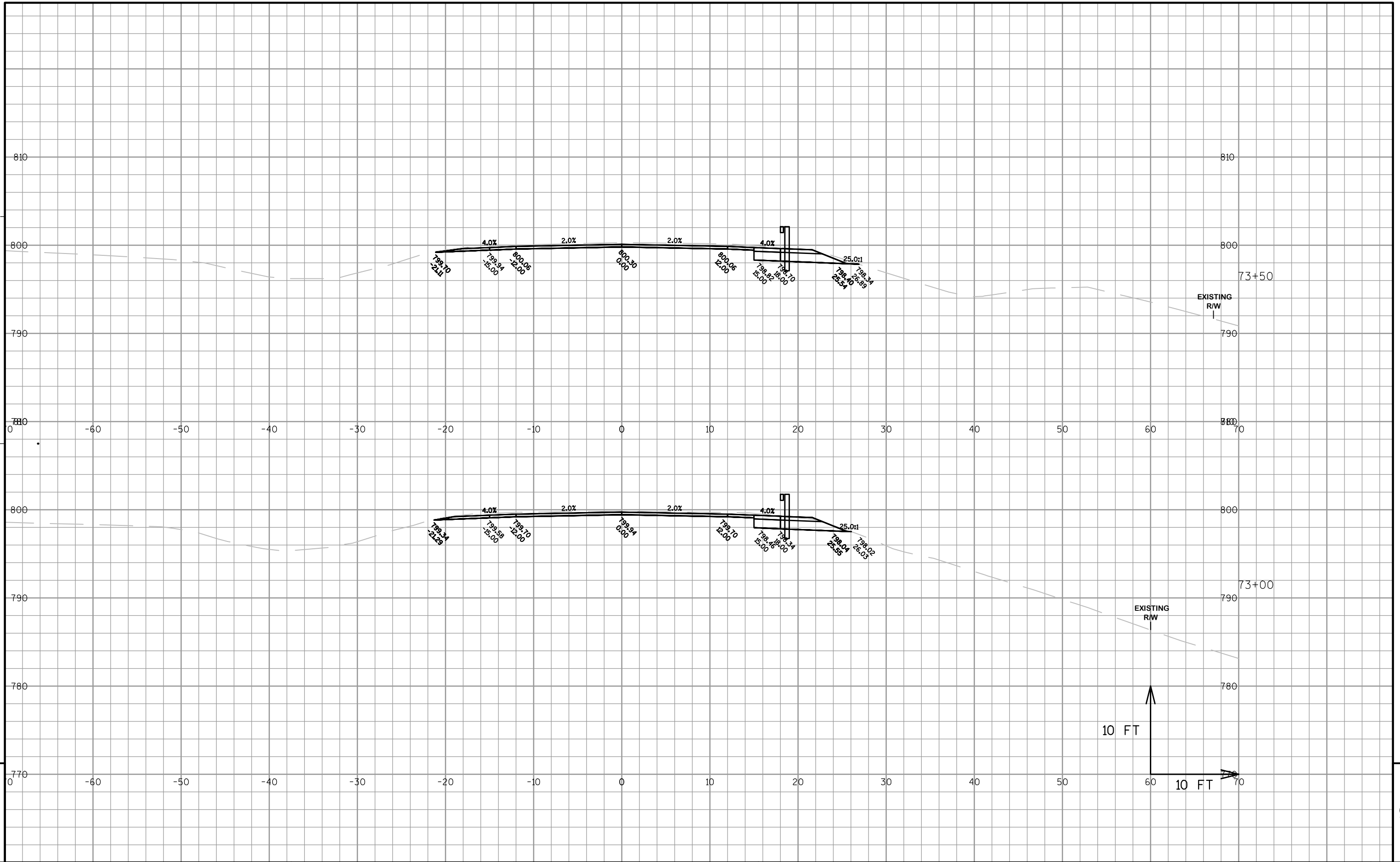
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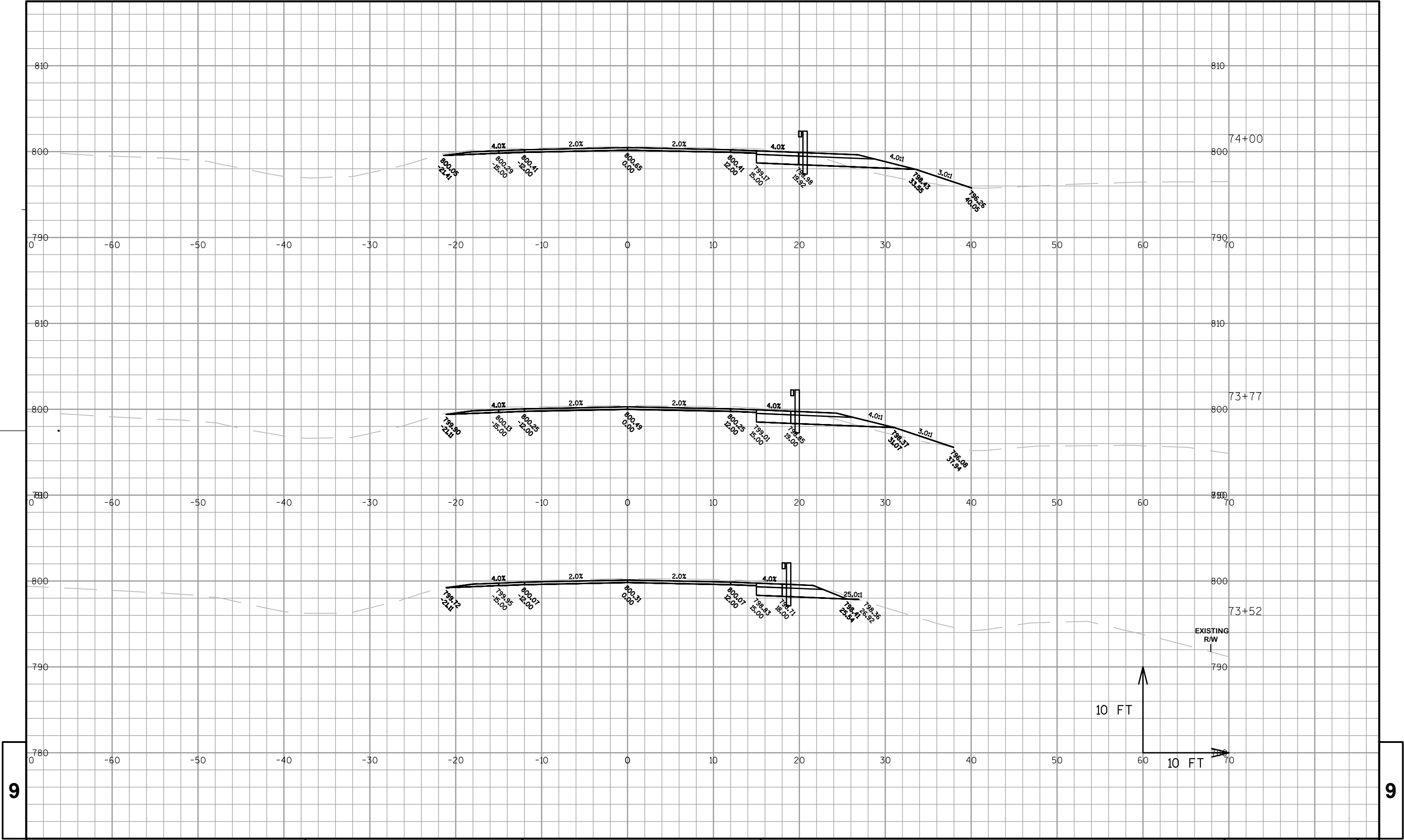
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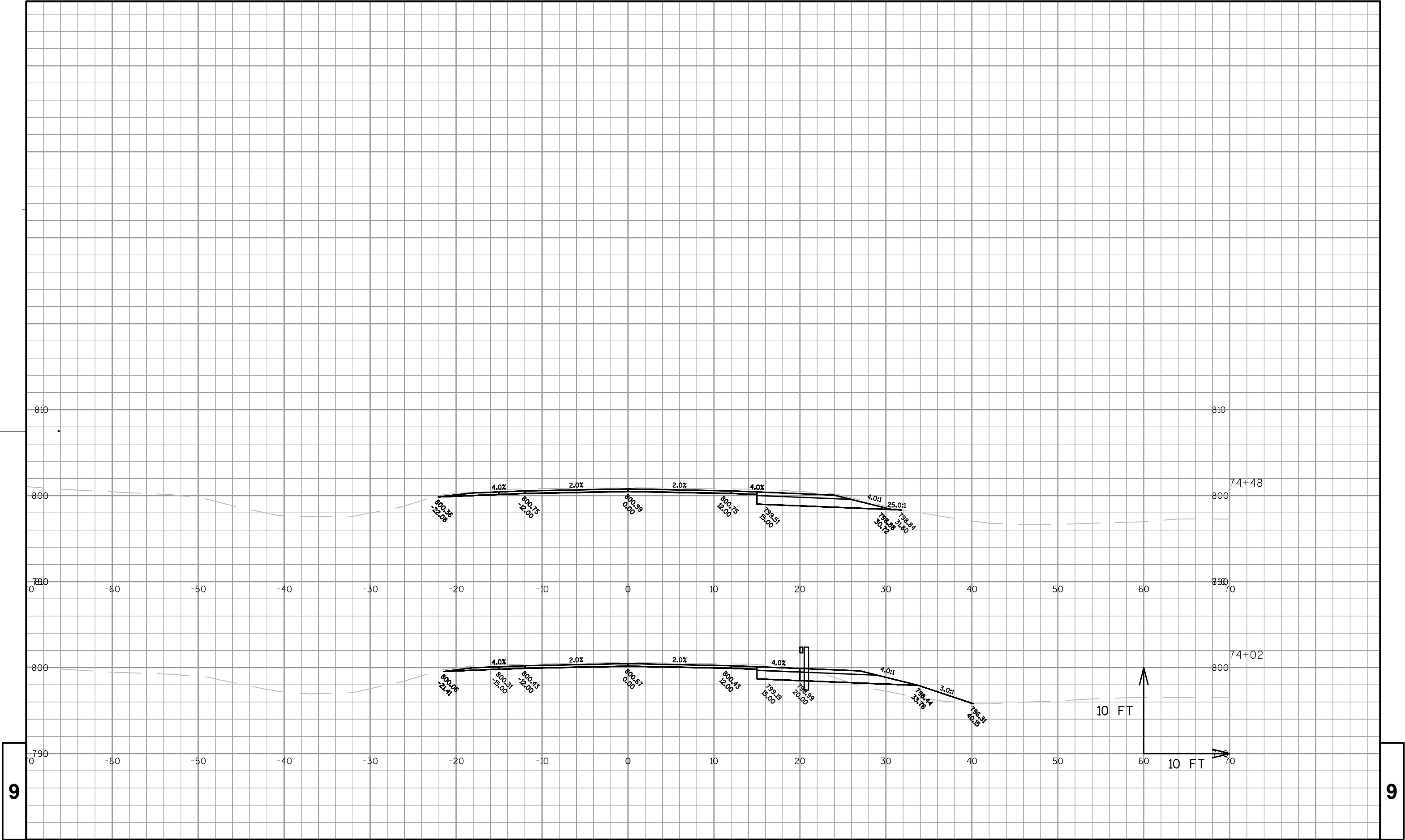
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WISDOT/CADD SHEET 49







9

9

PROJECT NO: 7505-00-71

HWY: STH 121

COUNTY: TREMPLEAU

CROSS SECTIONS: BEAM GUARD WIDENINGS

SHEET

E

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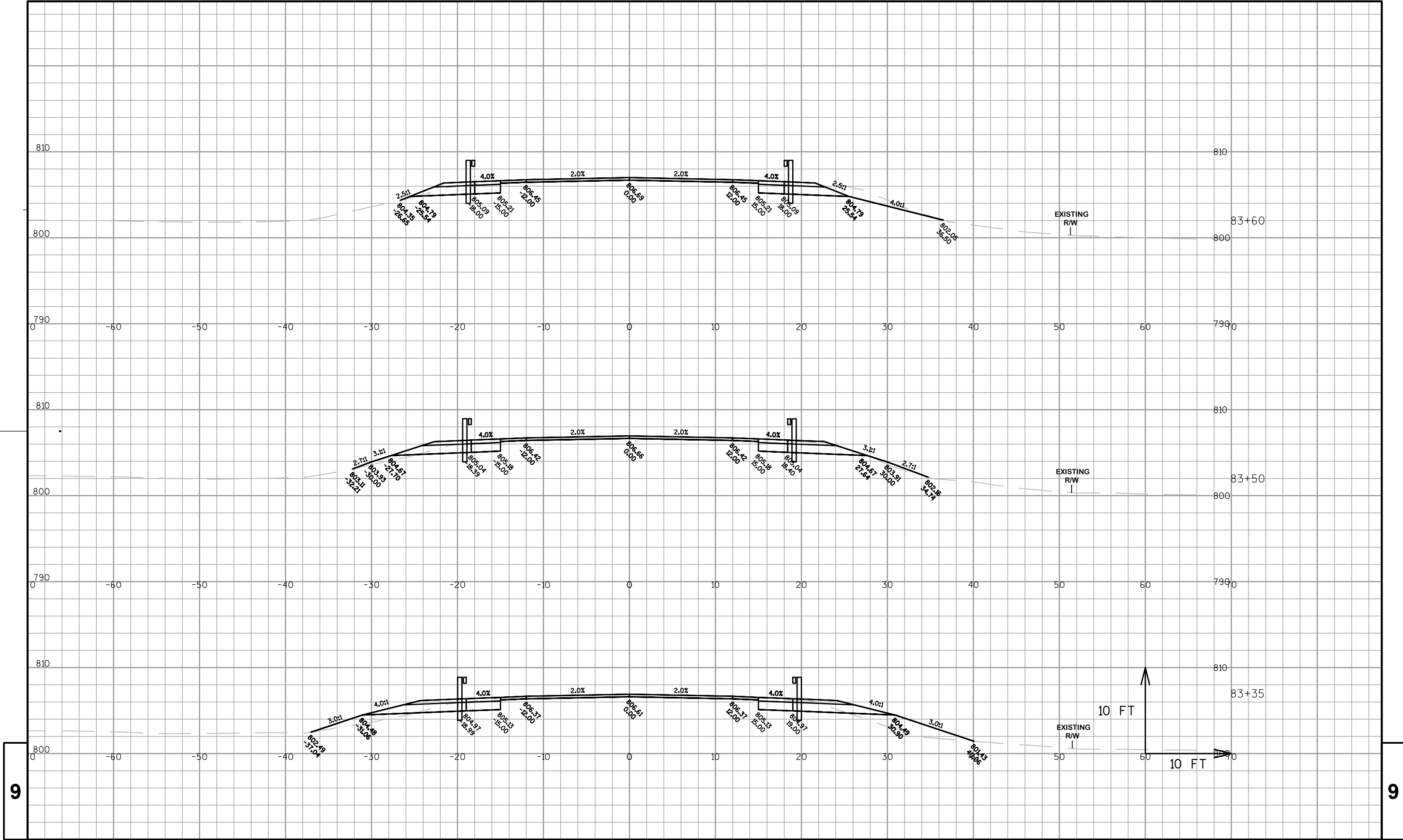
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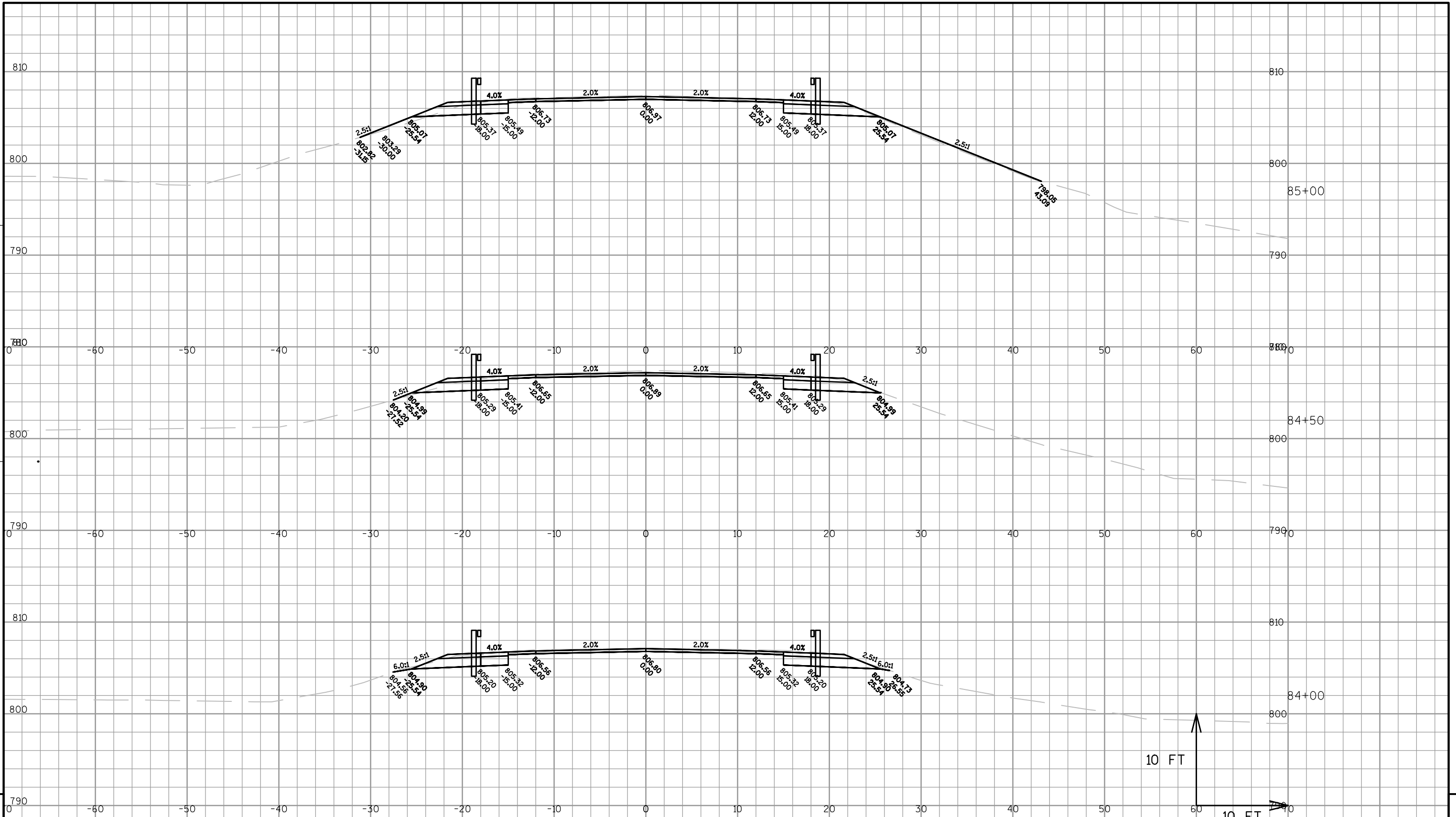
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PLOT NAME :

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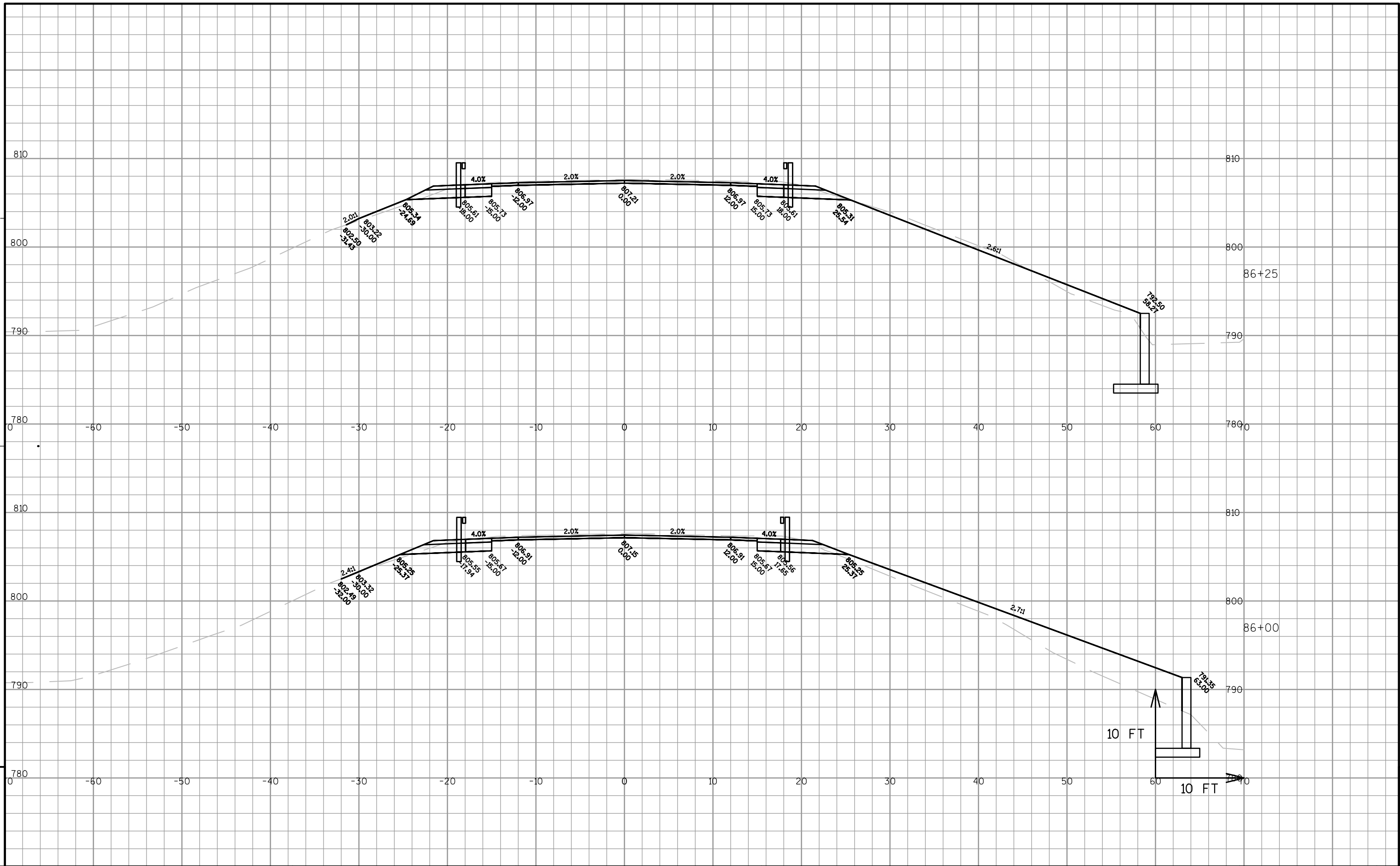
WISDOT/CADD SHEET 49

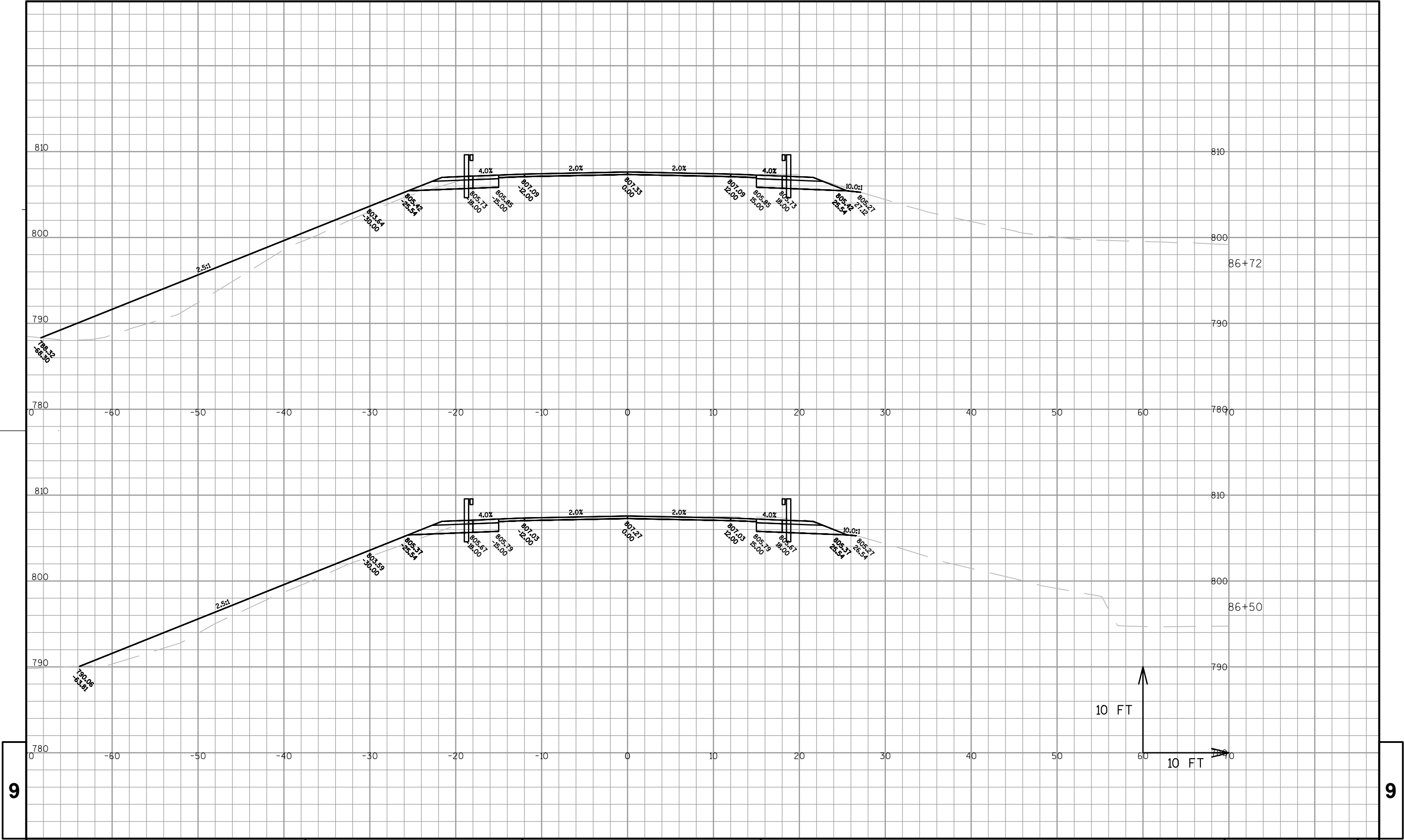


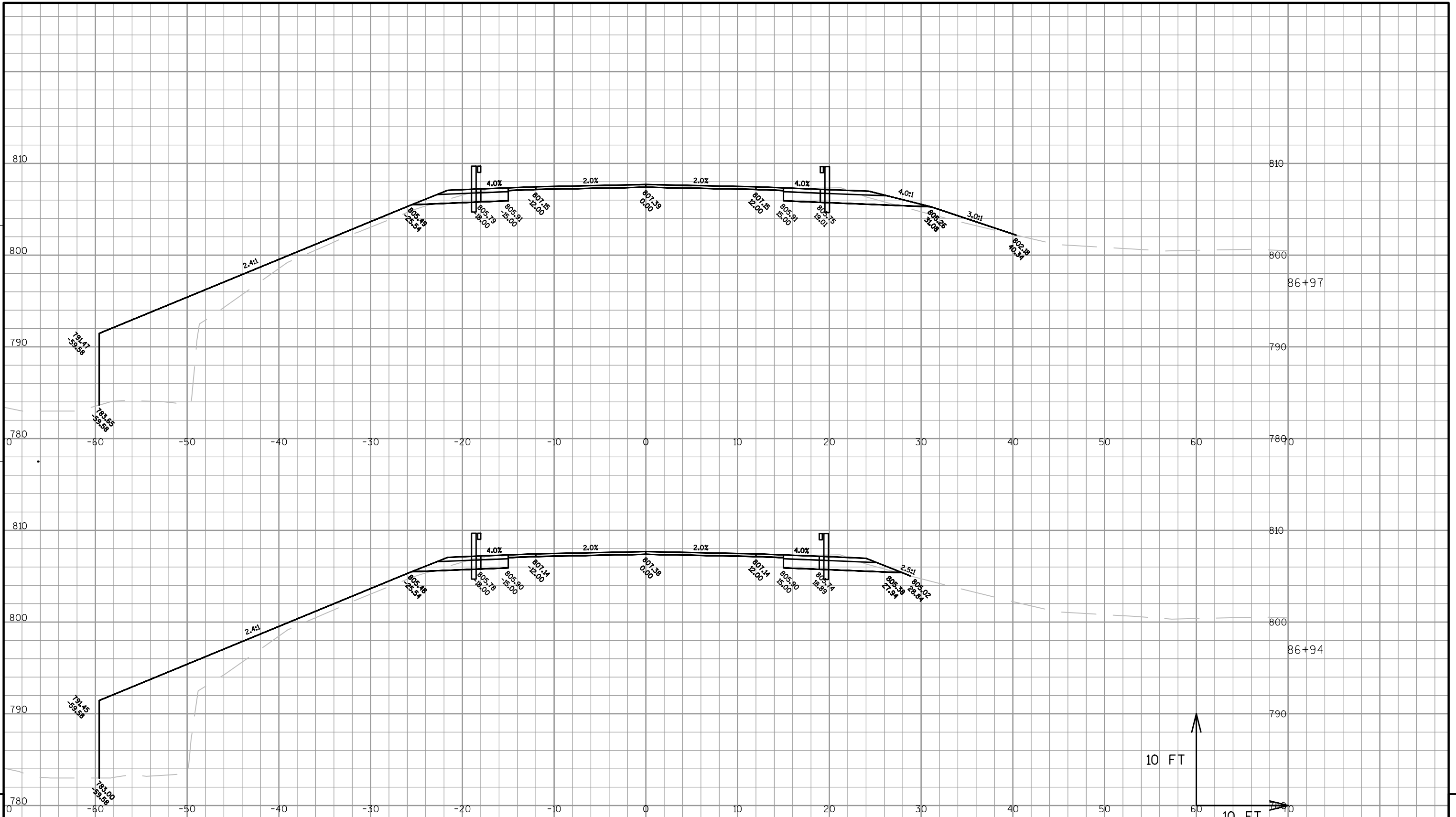


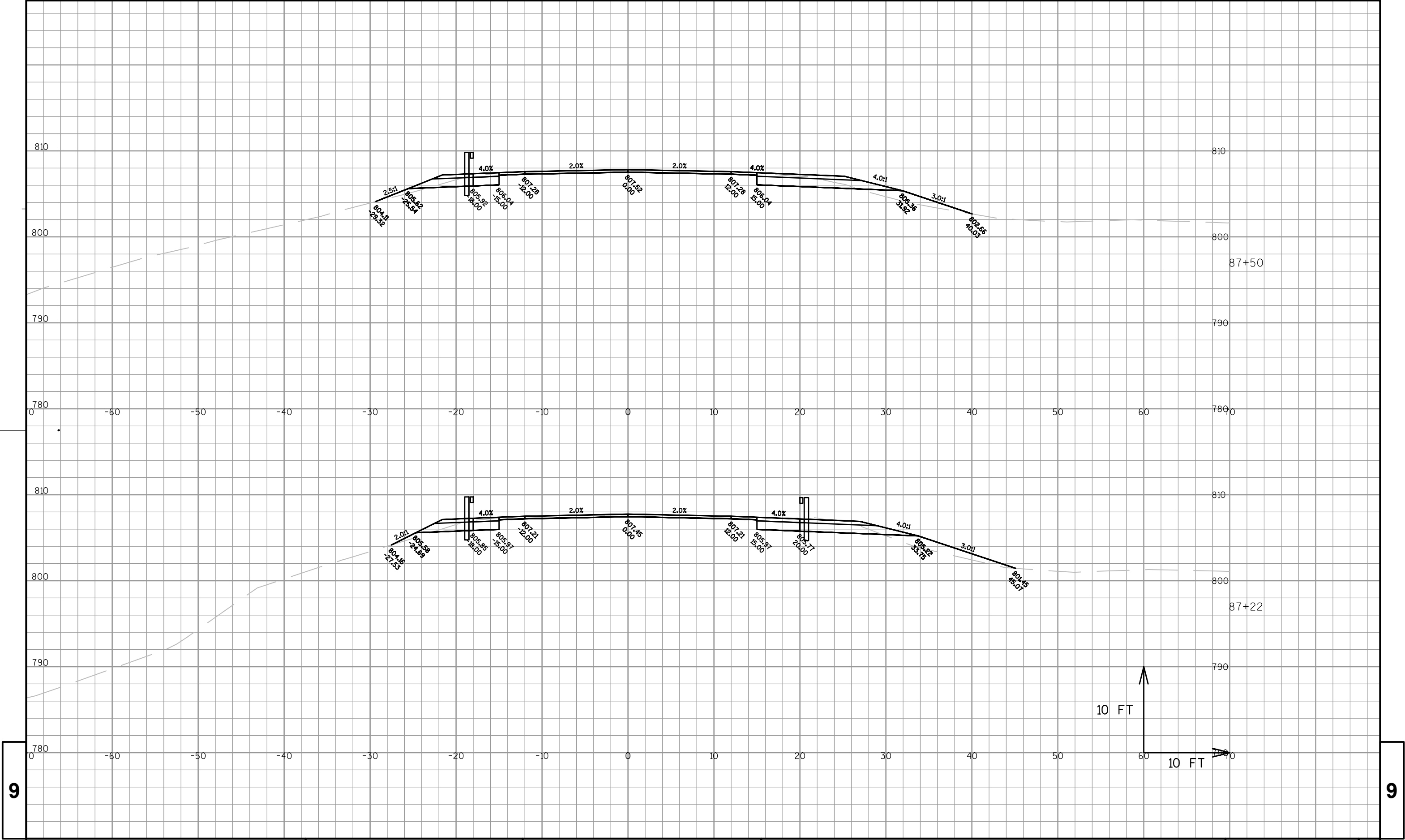
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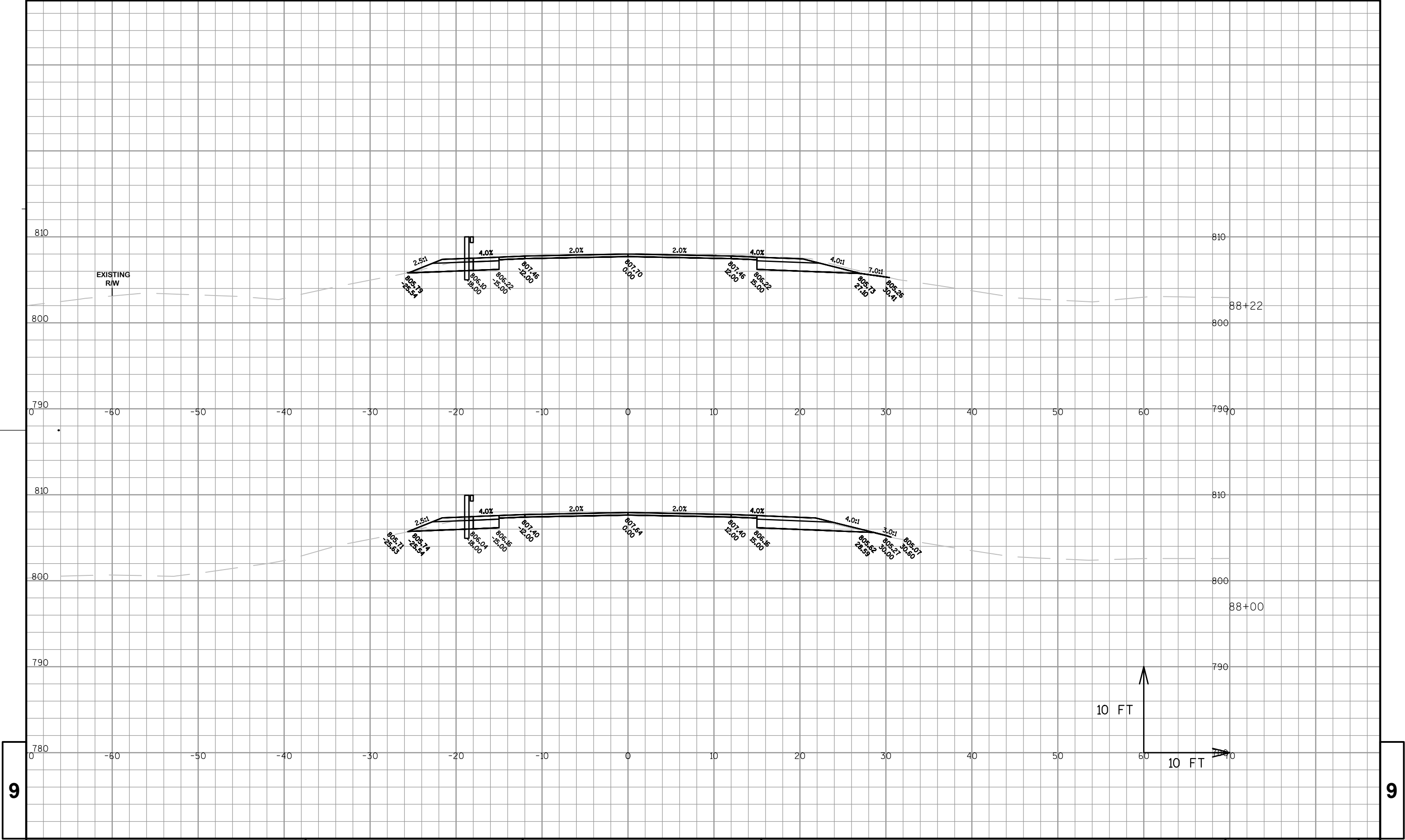
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PROJECT NO: 7505-00-71

HWY: STH 121

COUNTY: TREMPLEAU

CROSS SECTIONS: BEAM GUARD WIDENINGS

SHEET

E

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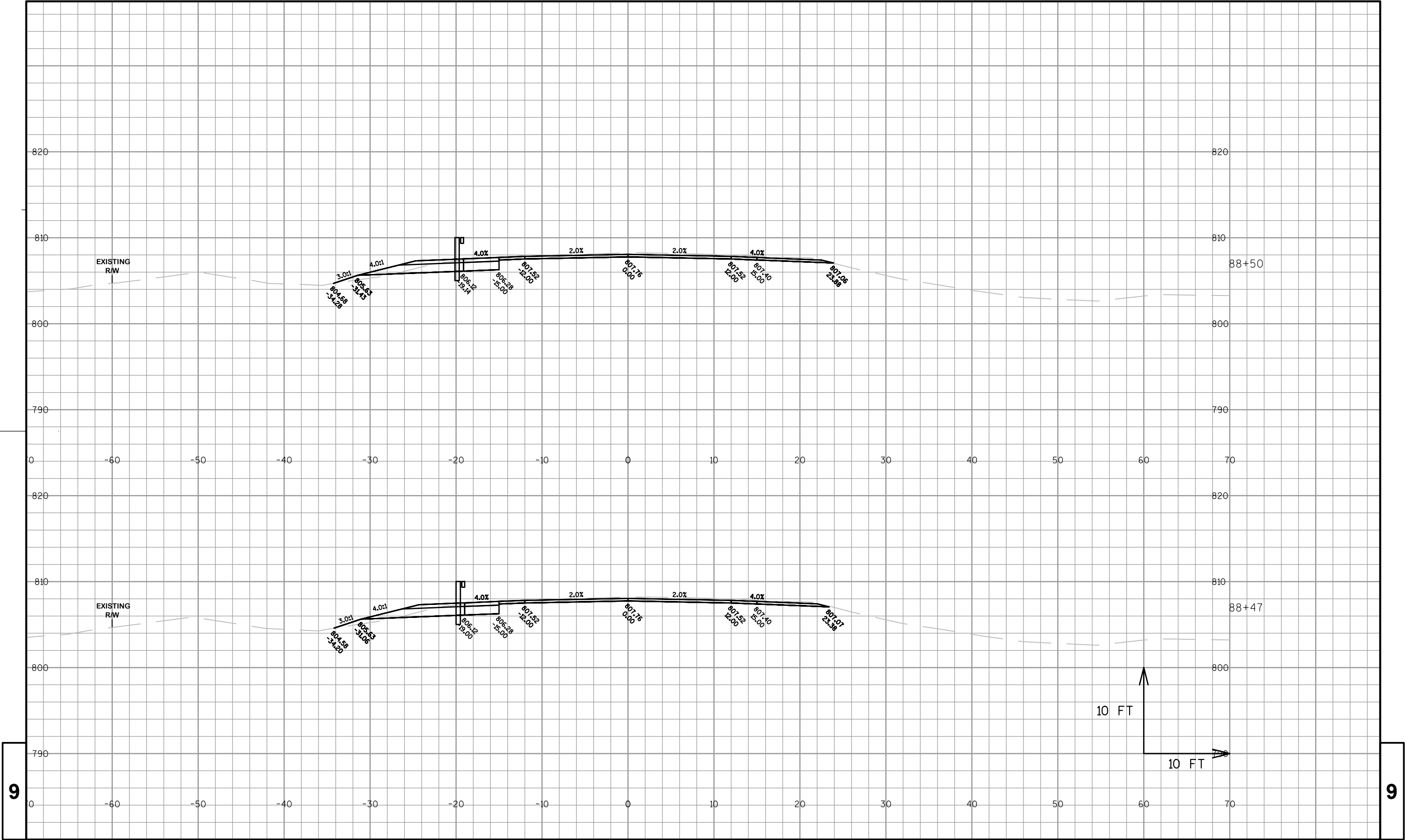
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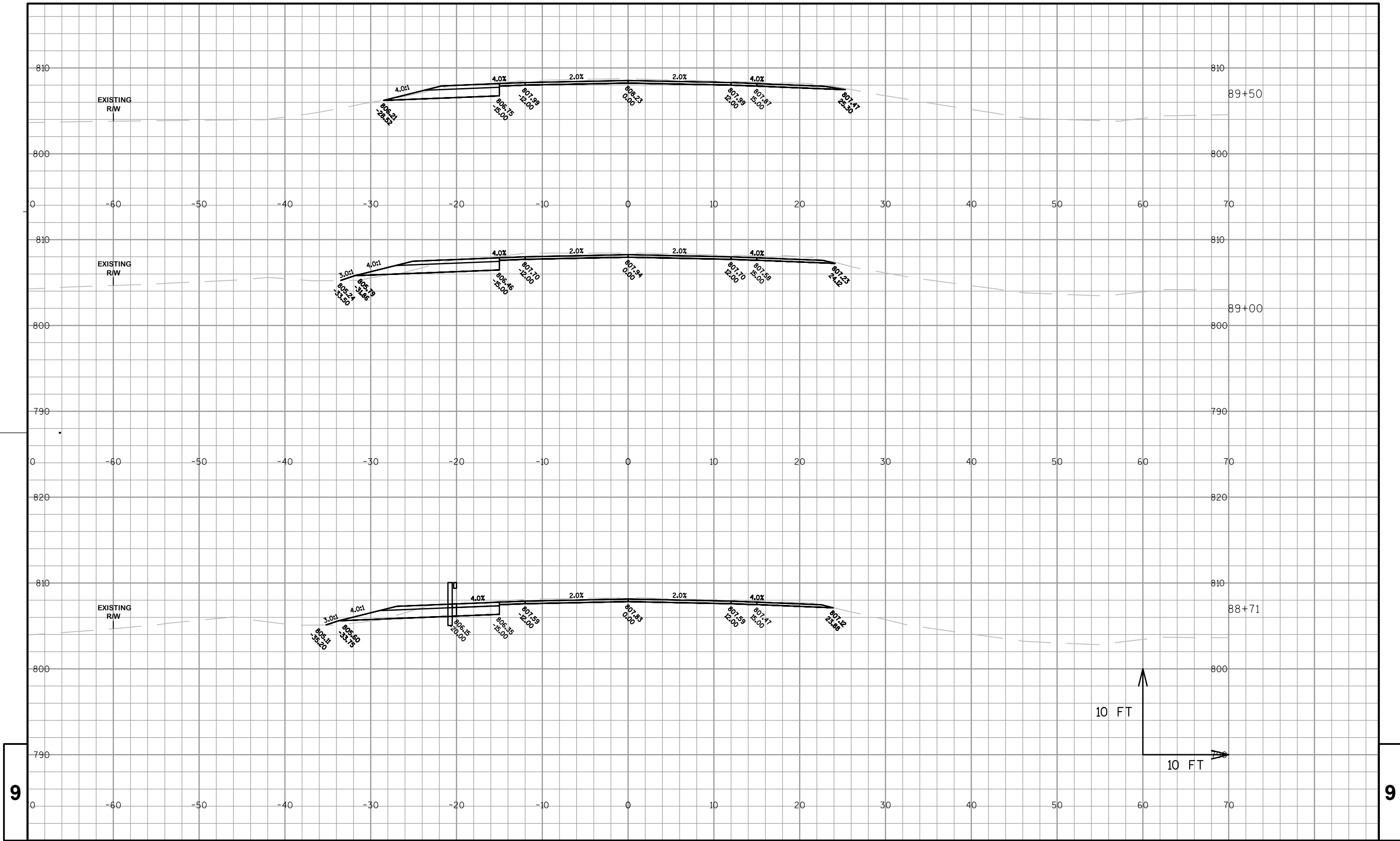
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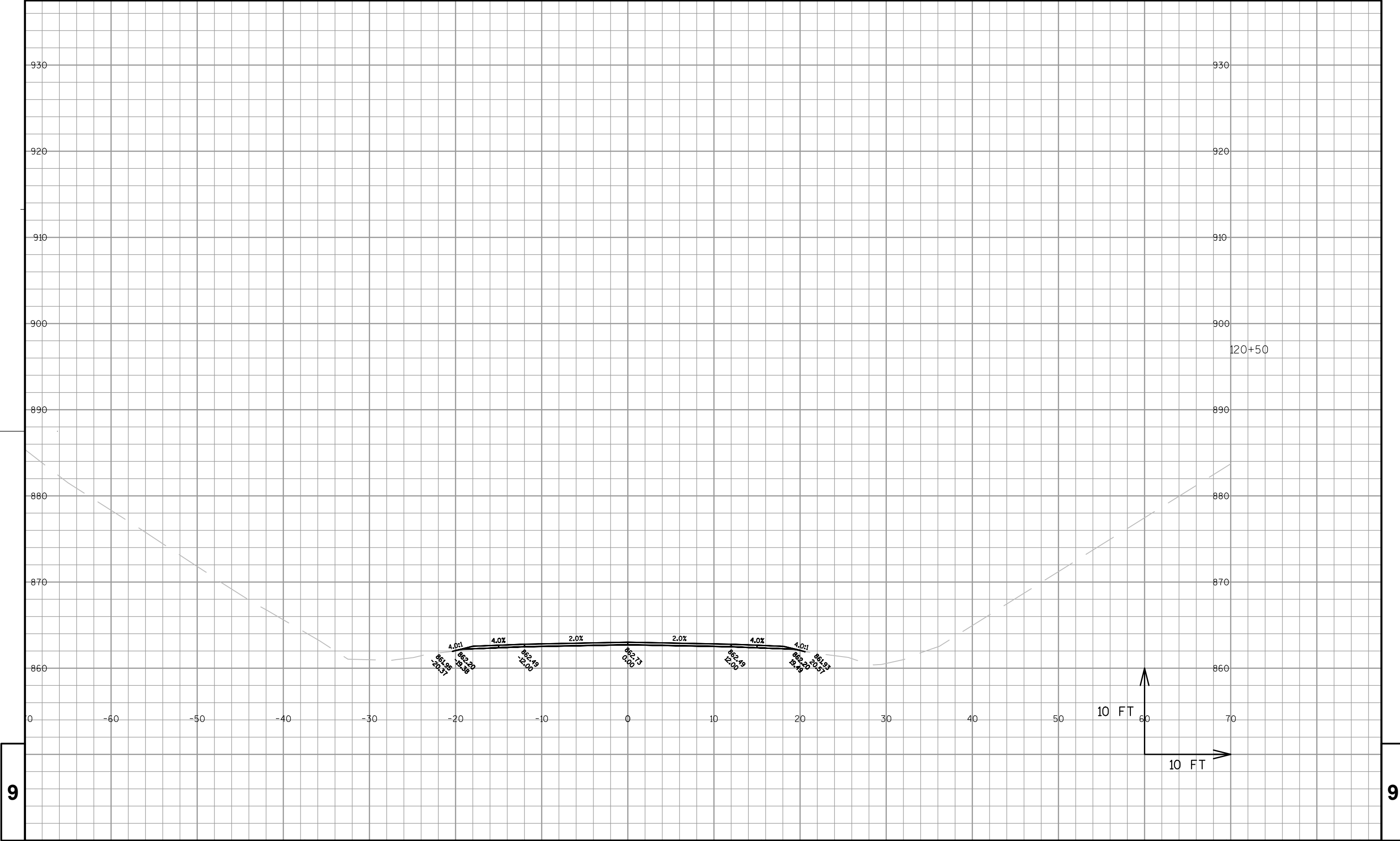
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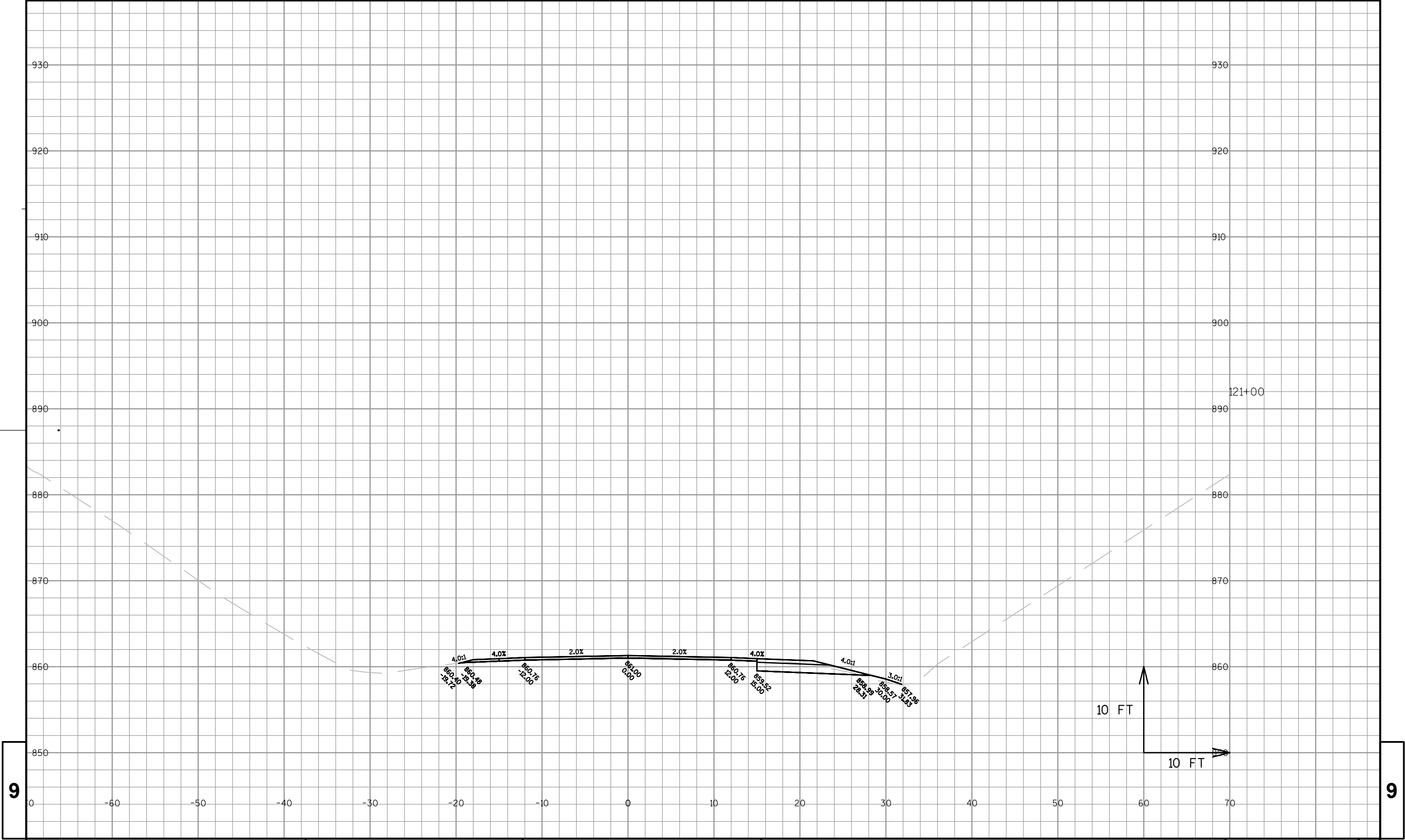


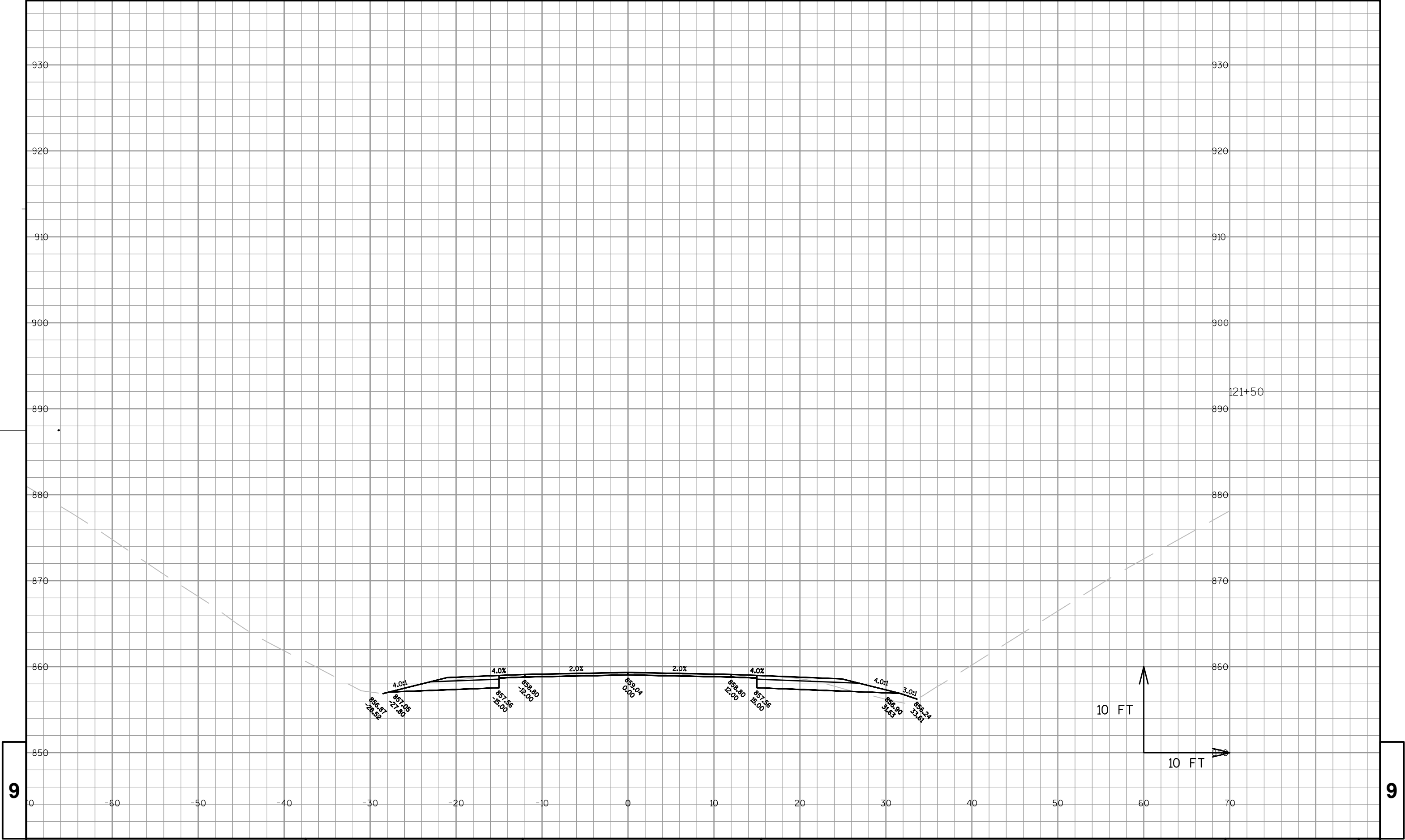
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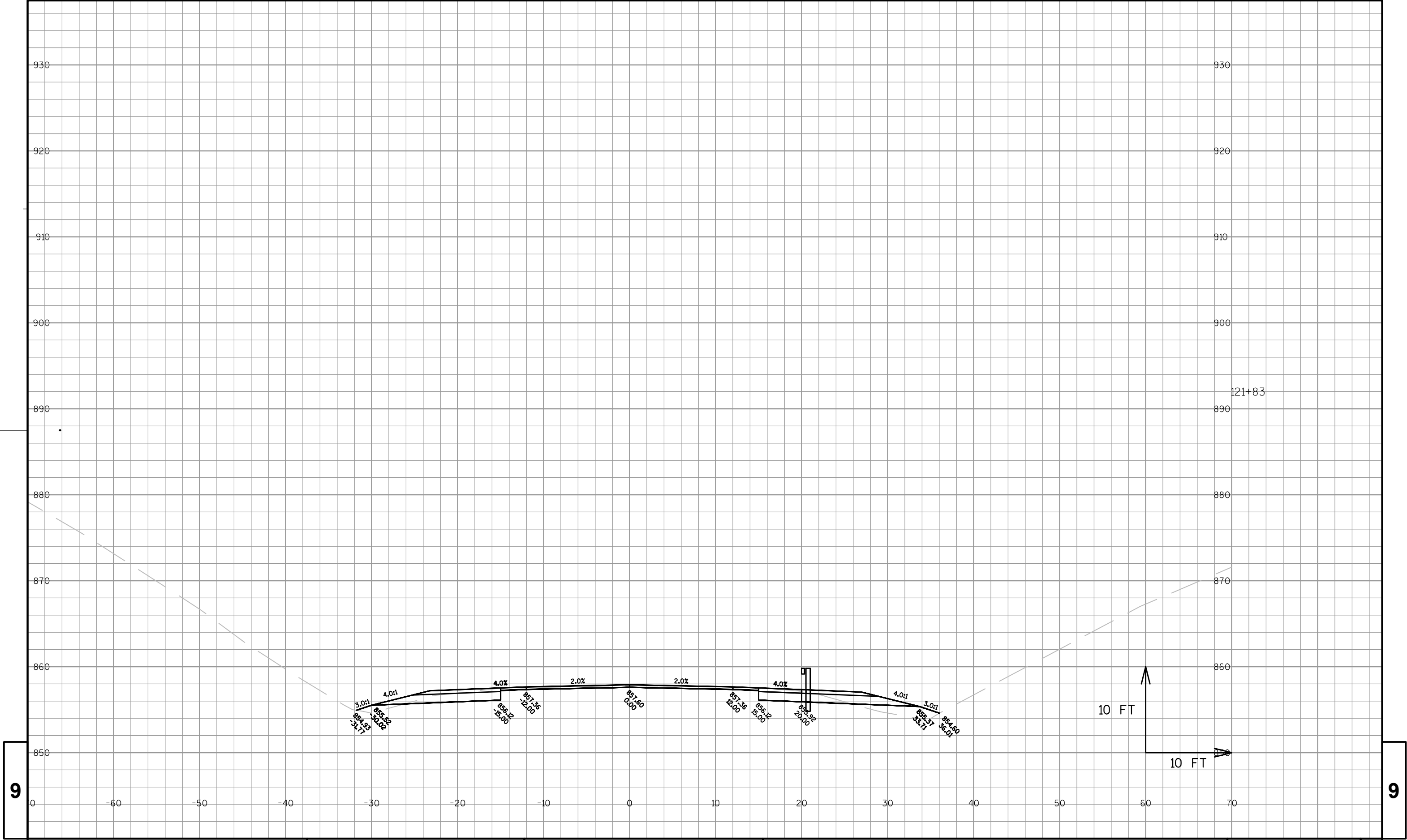
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PROJECT NO: 7505-00-71

HWY: STH 121

COUNTY: TREMPLEAU

CROSS SECTIONS: BEAM GUARD WIDENINGS

SHEET

E

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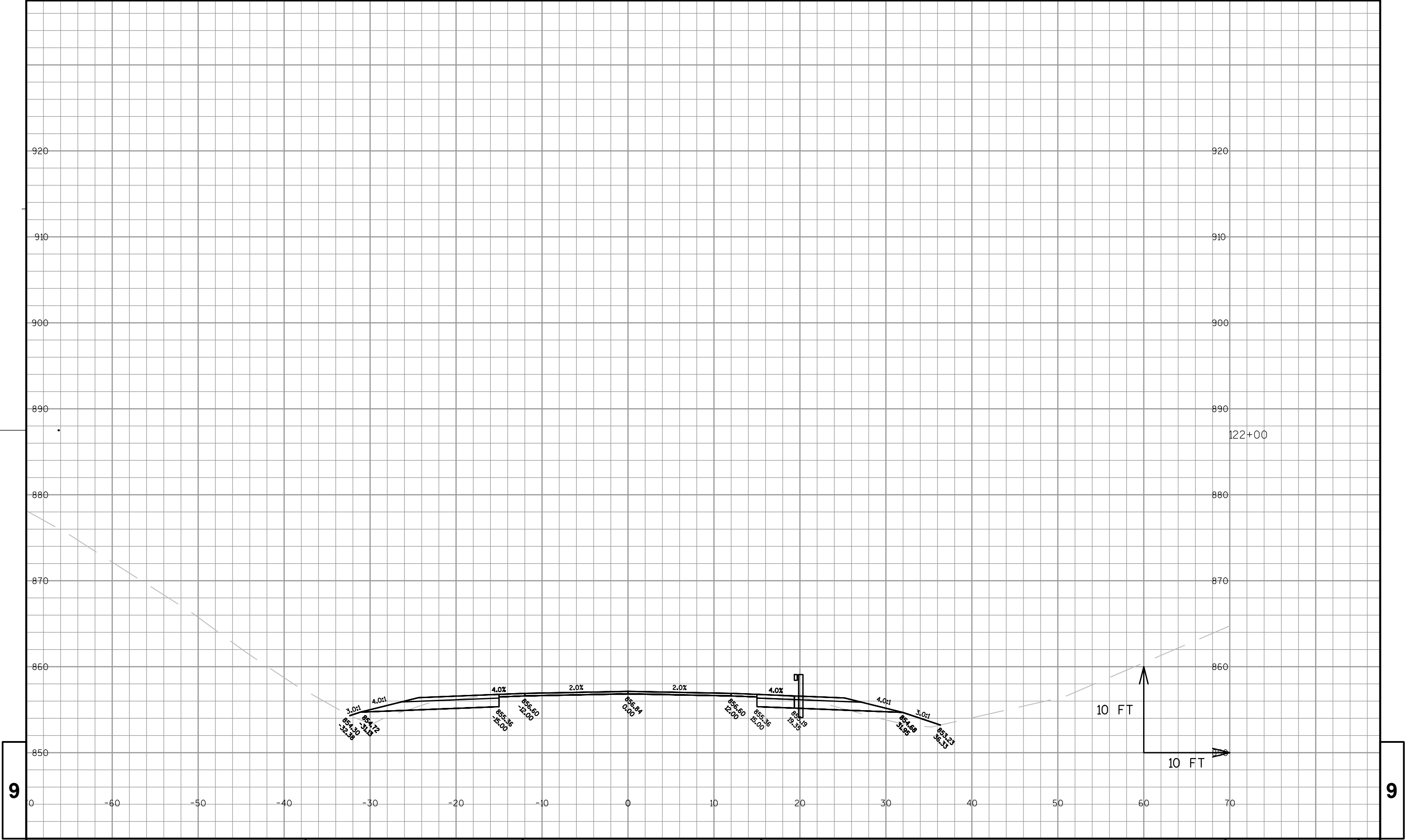
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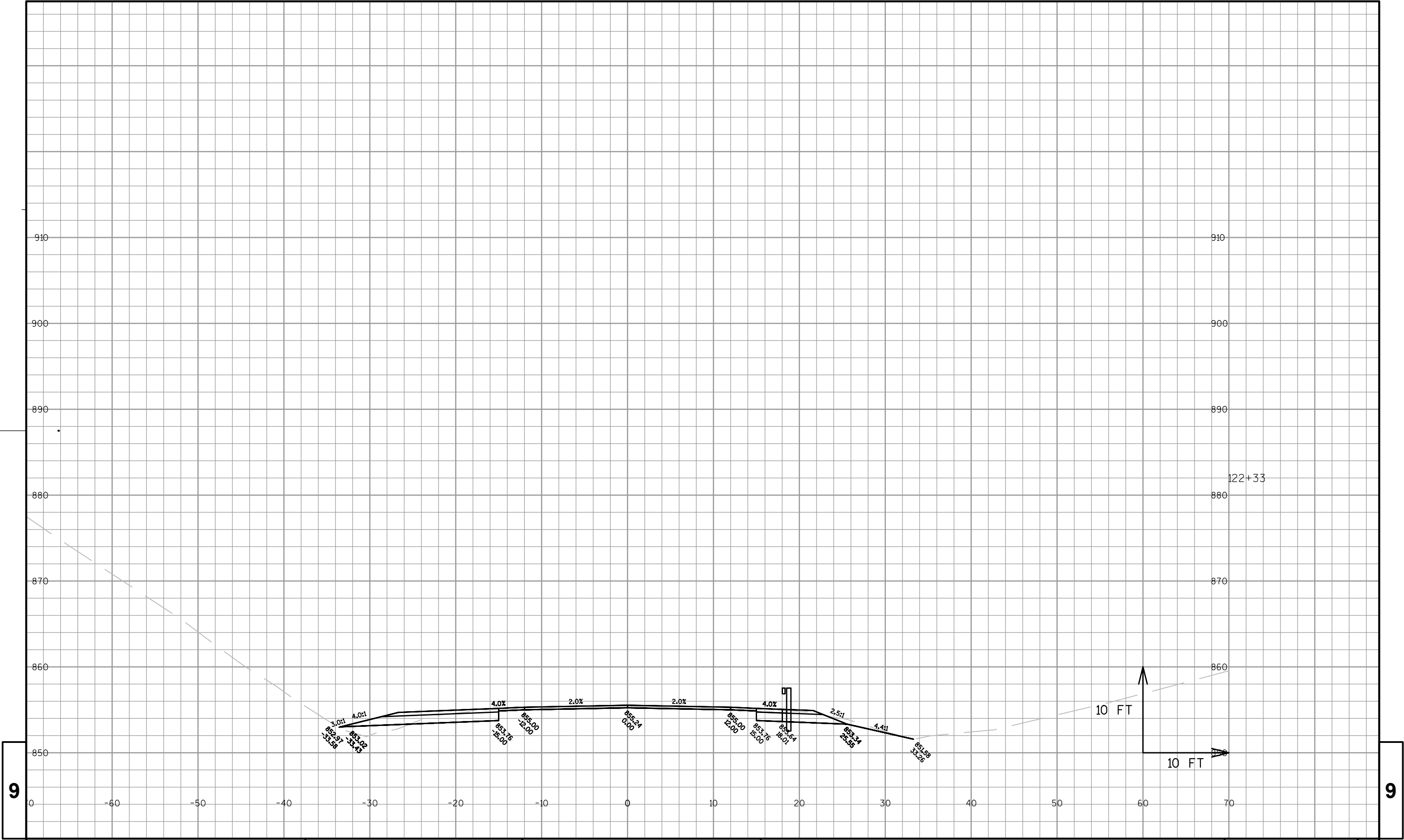
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PLOT NAME :

PLOT SCALE : 1 IN:10 FT

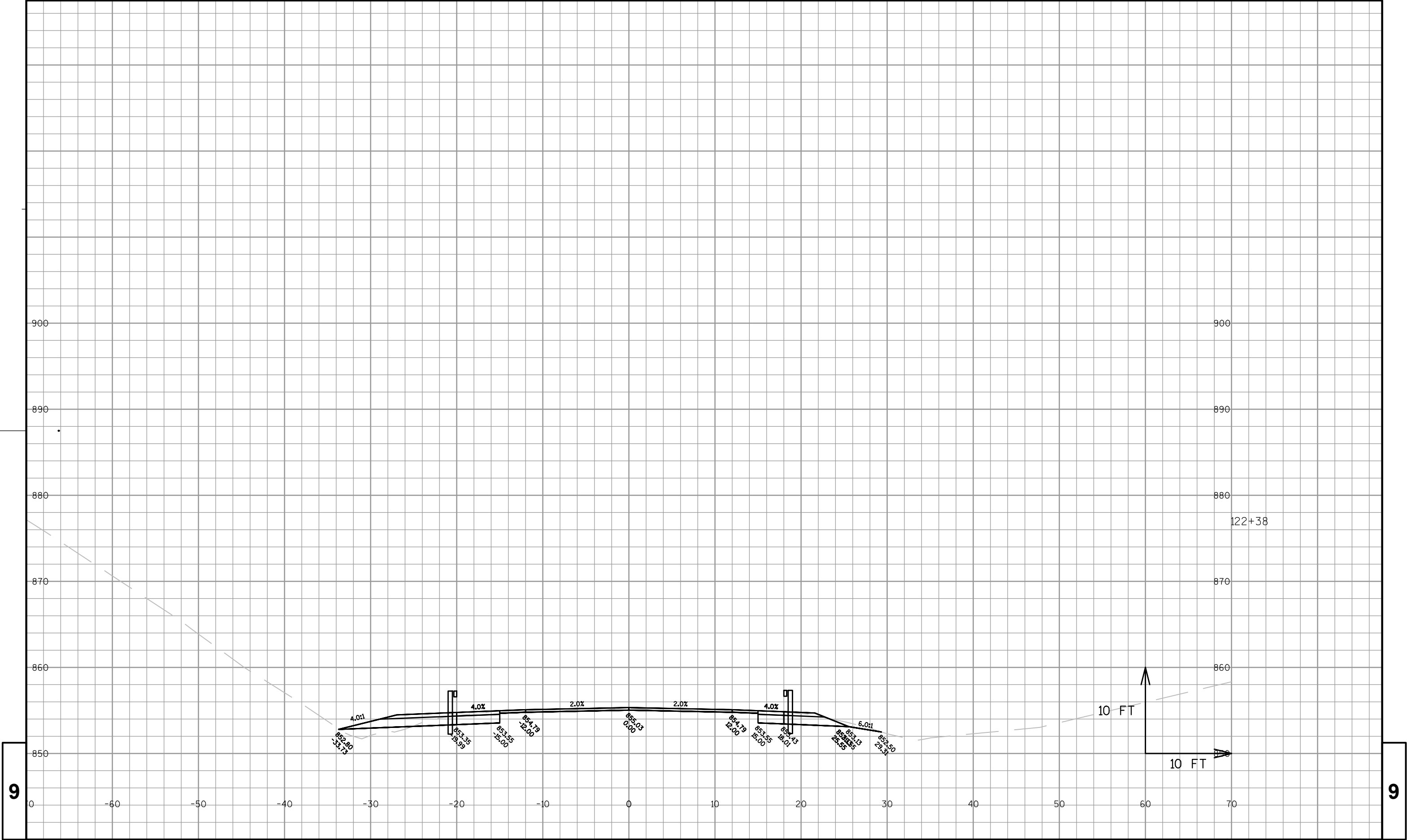
WISDOT/CADDs SHEET 49





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PROJECT NO:7505-00-71

HWY: STH 121

COUNTY: TREMPEALEAU

CROSS SECTIONS: BEAM GUARD WIDENINGS

SHEET

E

FILE NAME : P:\90S\93\00093136\CADD\CIVIL\DESIGN\CORRIDORS\STH 121\CORRIDOR_A3 - PREL_PLAN111113.DWG

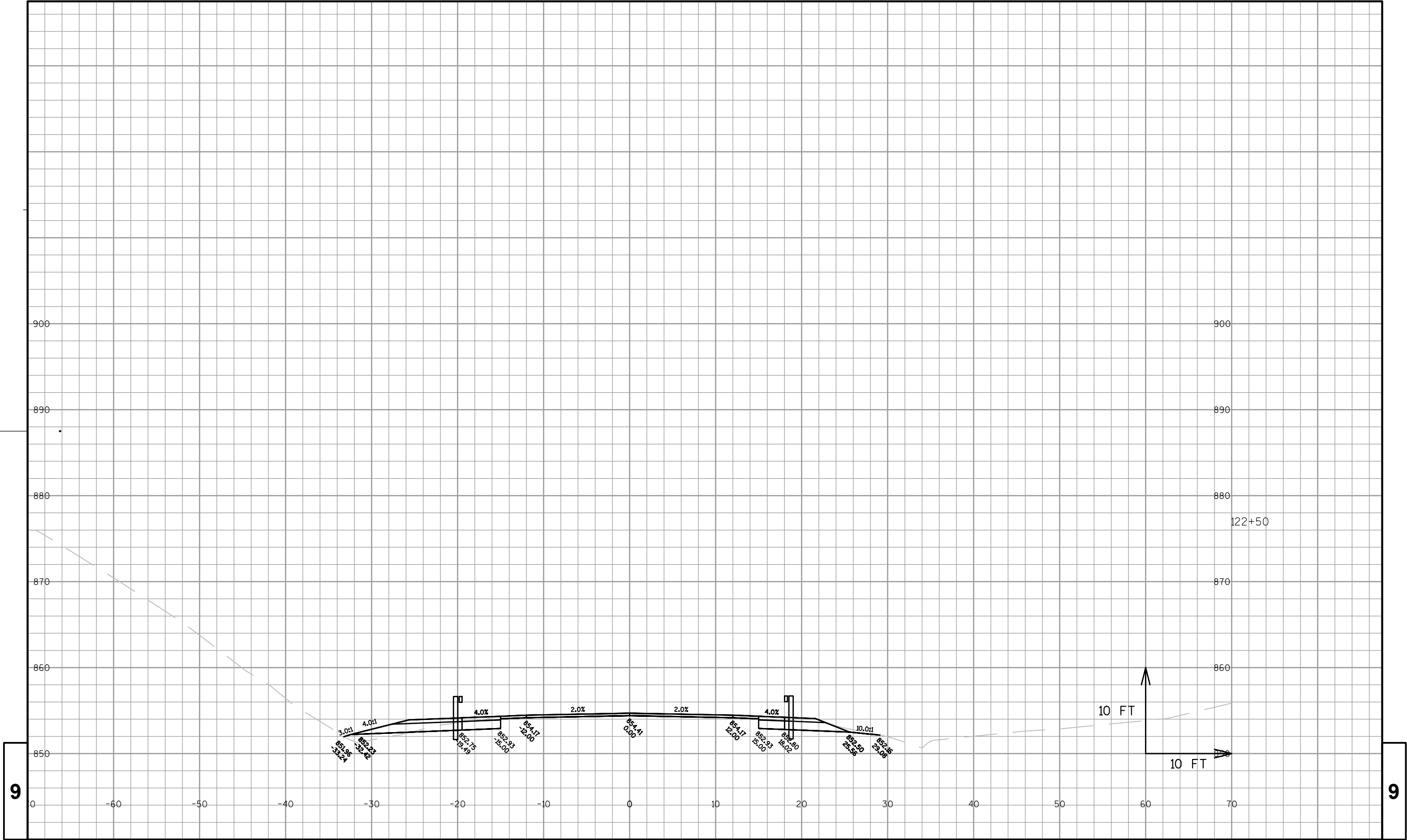
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PLOT BY : PHIL SAEGER

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDs SHEET 49



9

9

PROJECT NO:7505-00-71

HWY: STH 121

COUNTY: TREMPEALEAU

CROSS SECTIONS: BEAM GUARD WIDENINGS

SHEET

E

FILE NAME : P:\90S\93\00093136\CADD\CIVIL\DESIGN\CORRIDORS\STH 121\CORRIDOR_A3 - PREL_PLAN111113.DWG

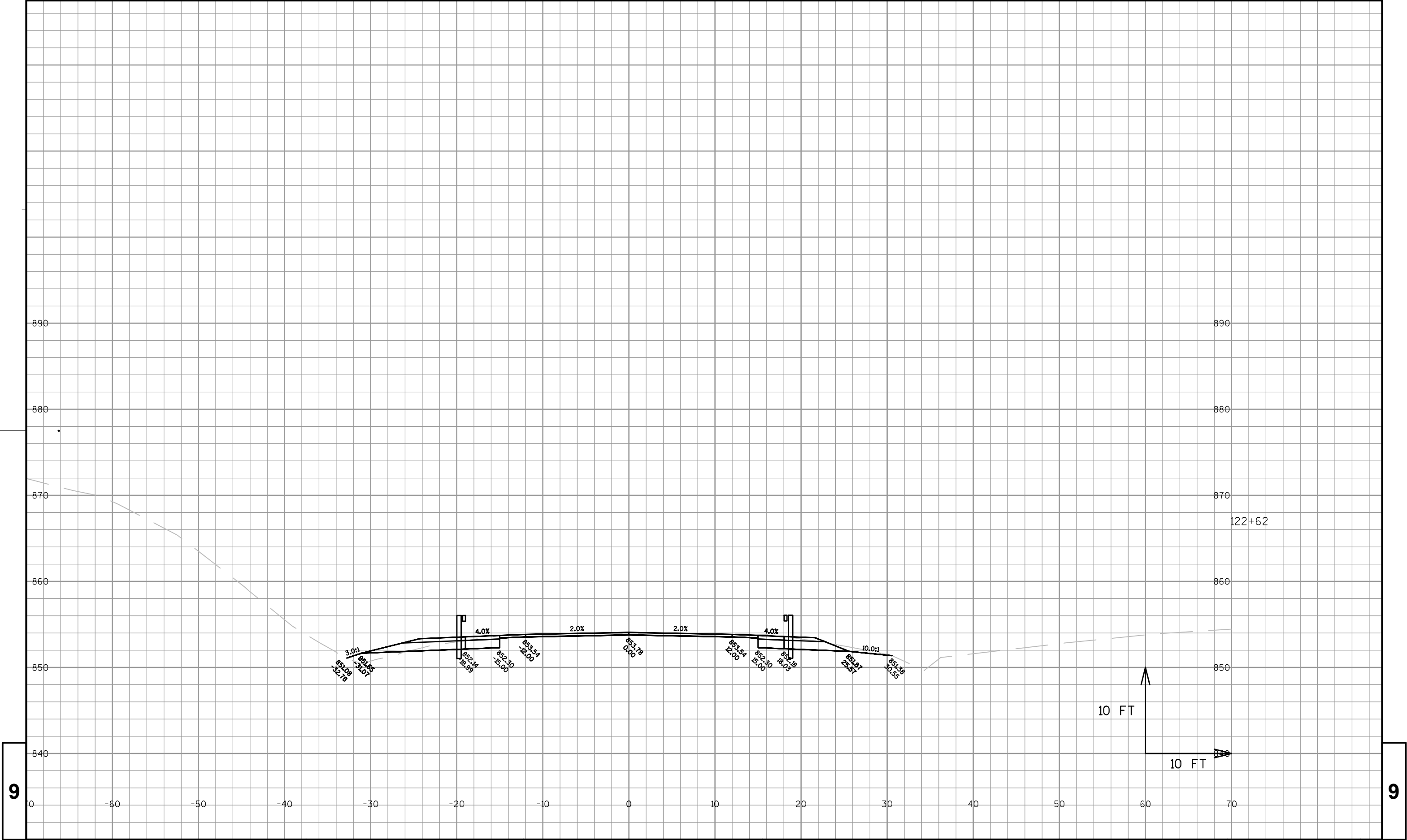
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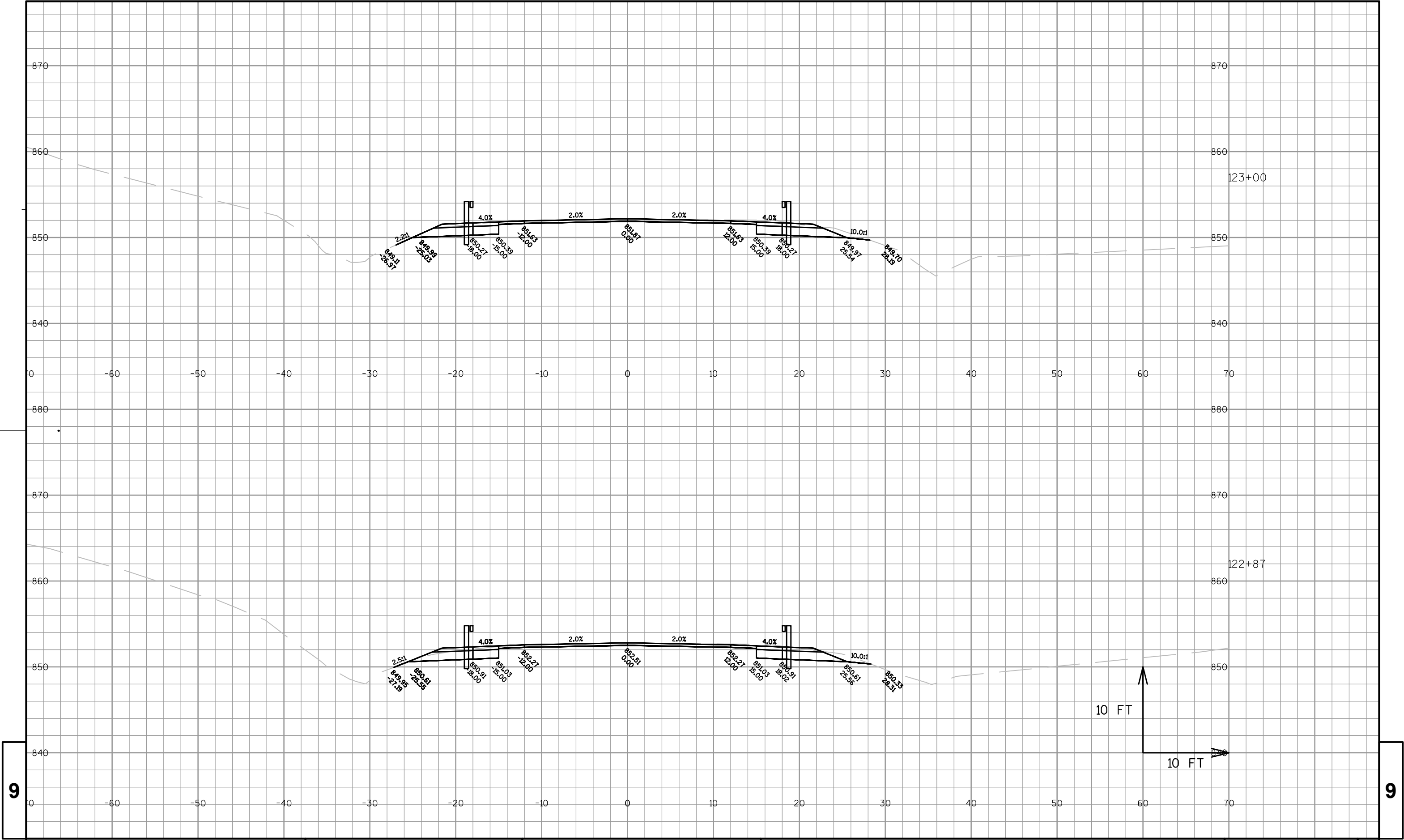
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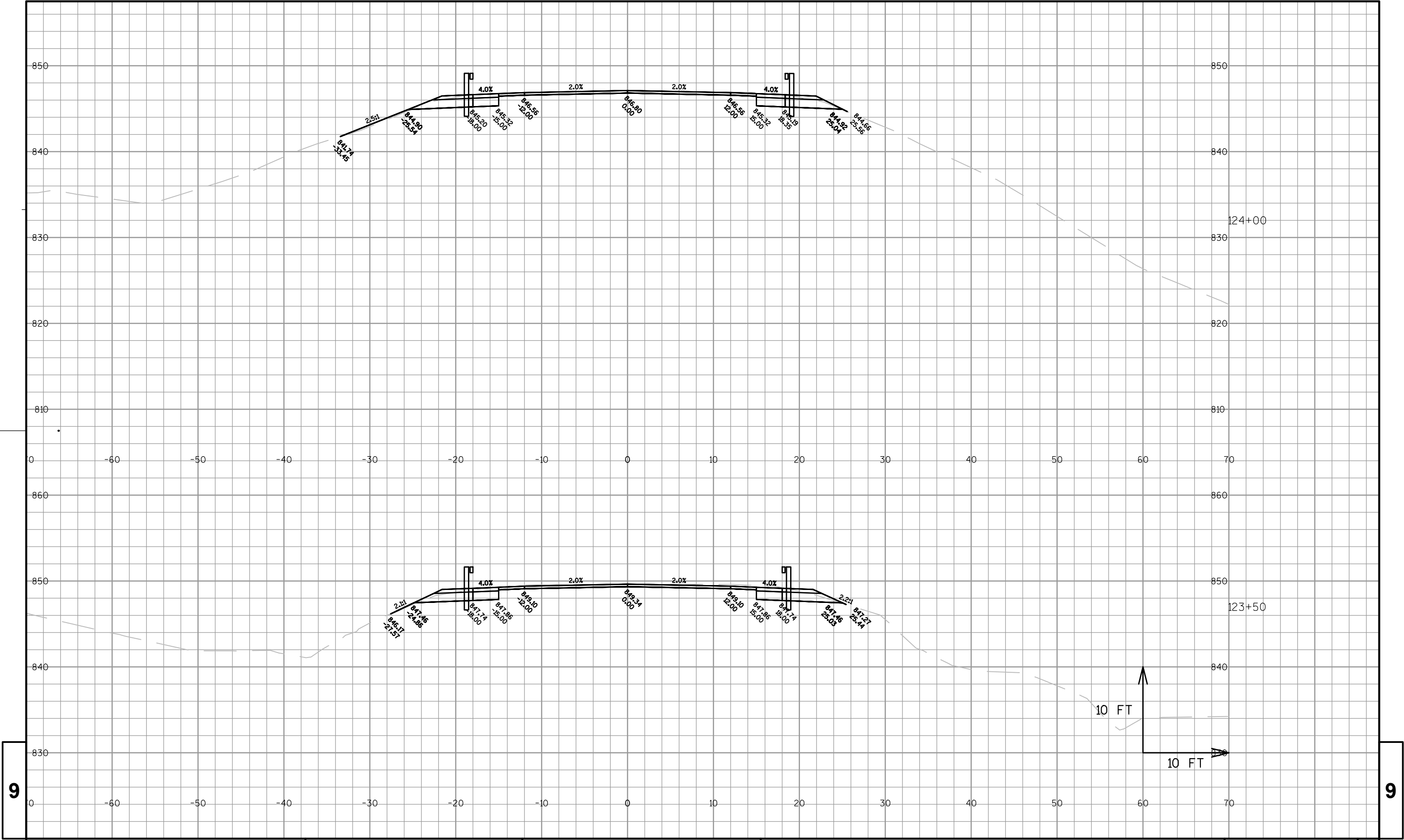
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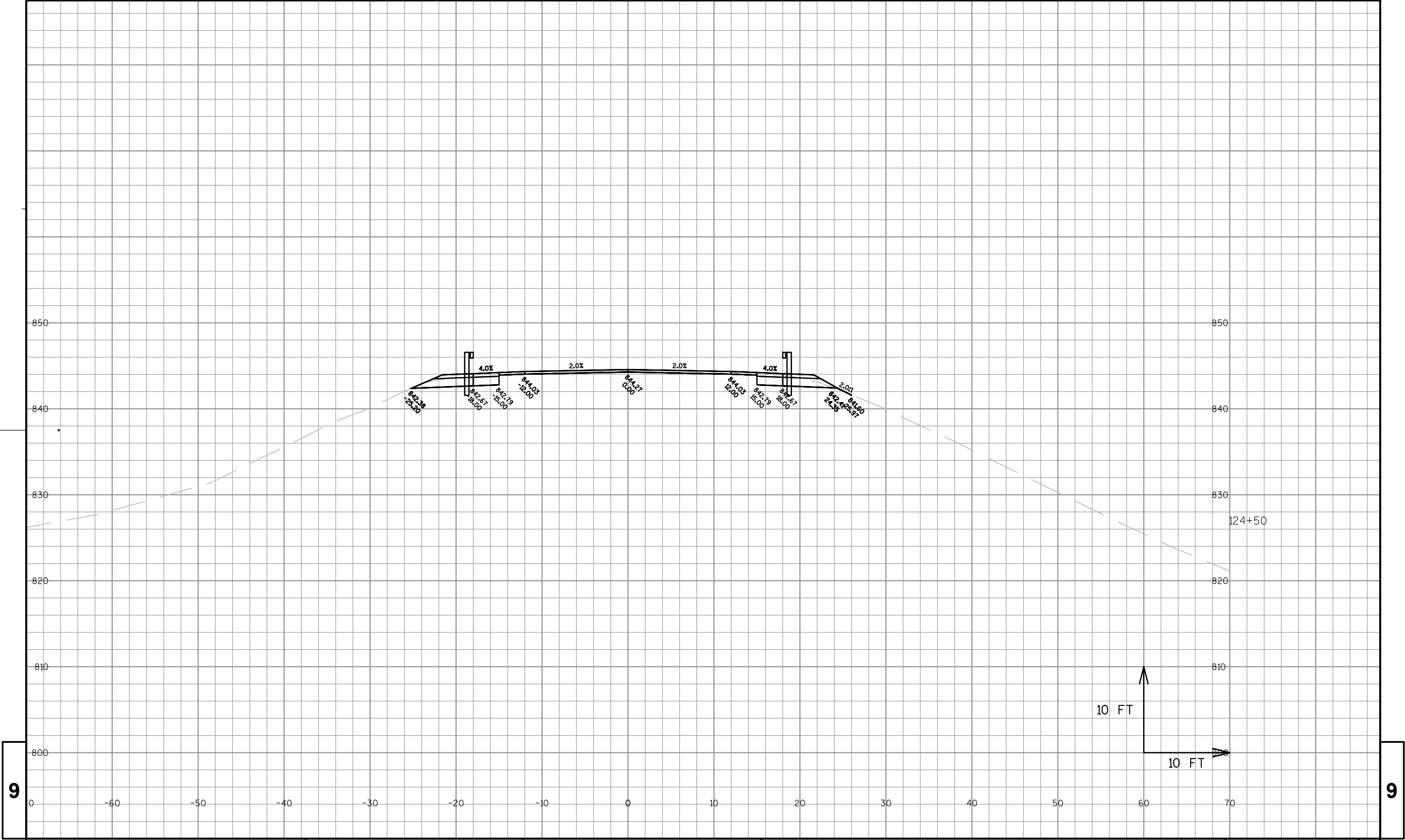
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WISDOT/CADDs SHEET 49









PROJECT NO: 7505-00-71

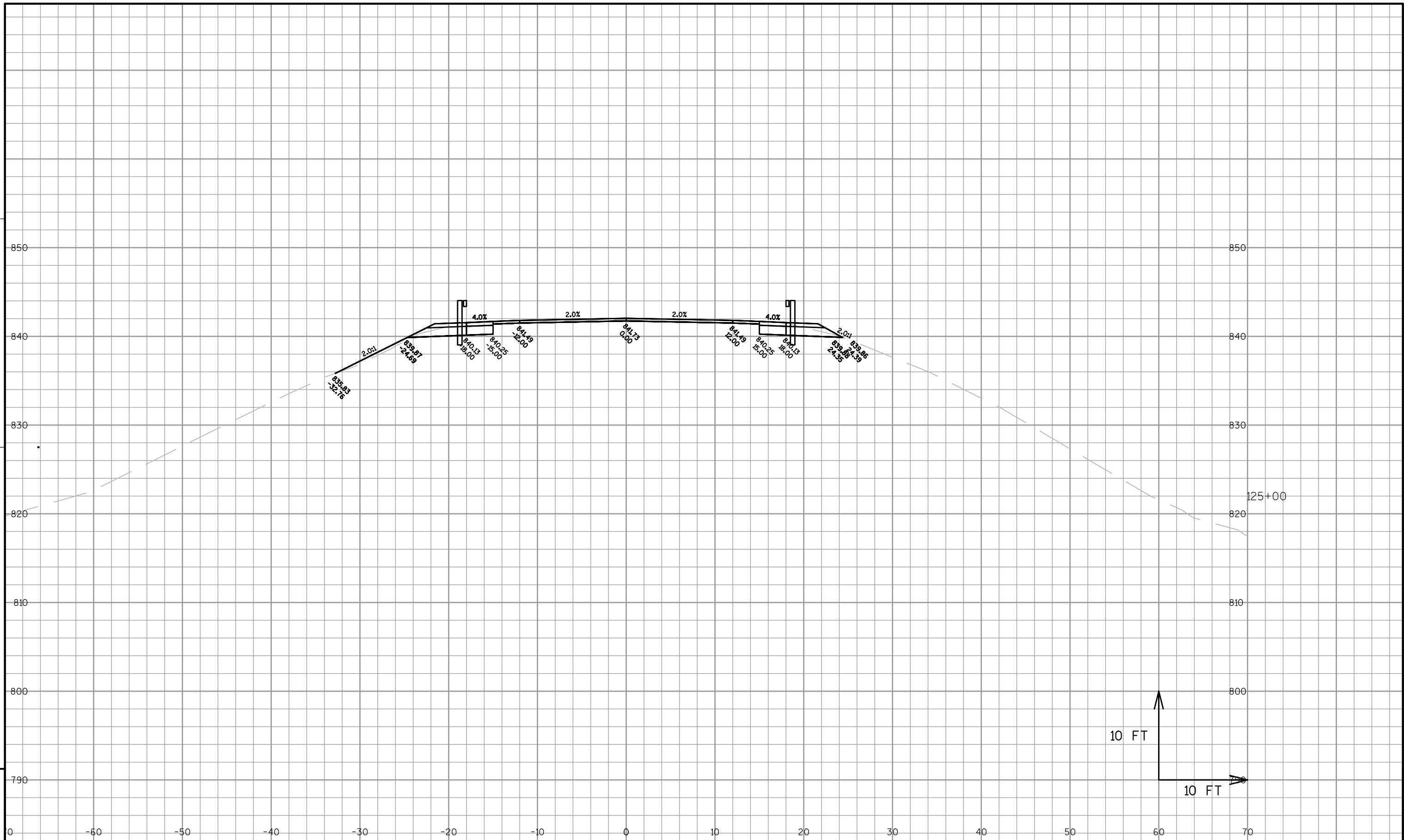
HWY: STH 121

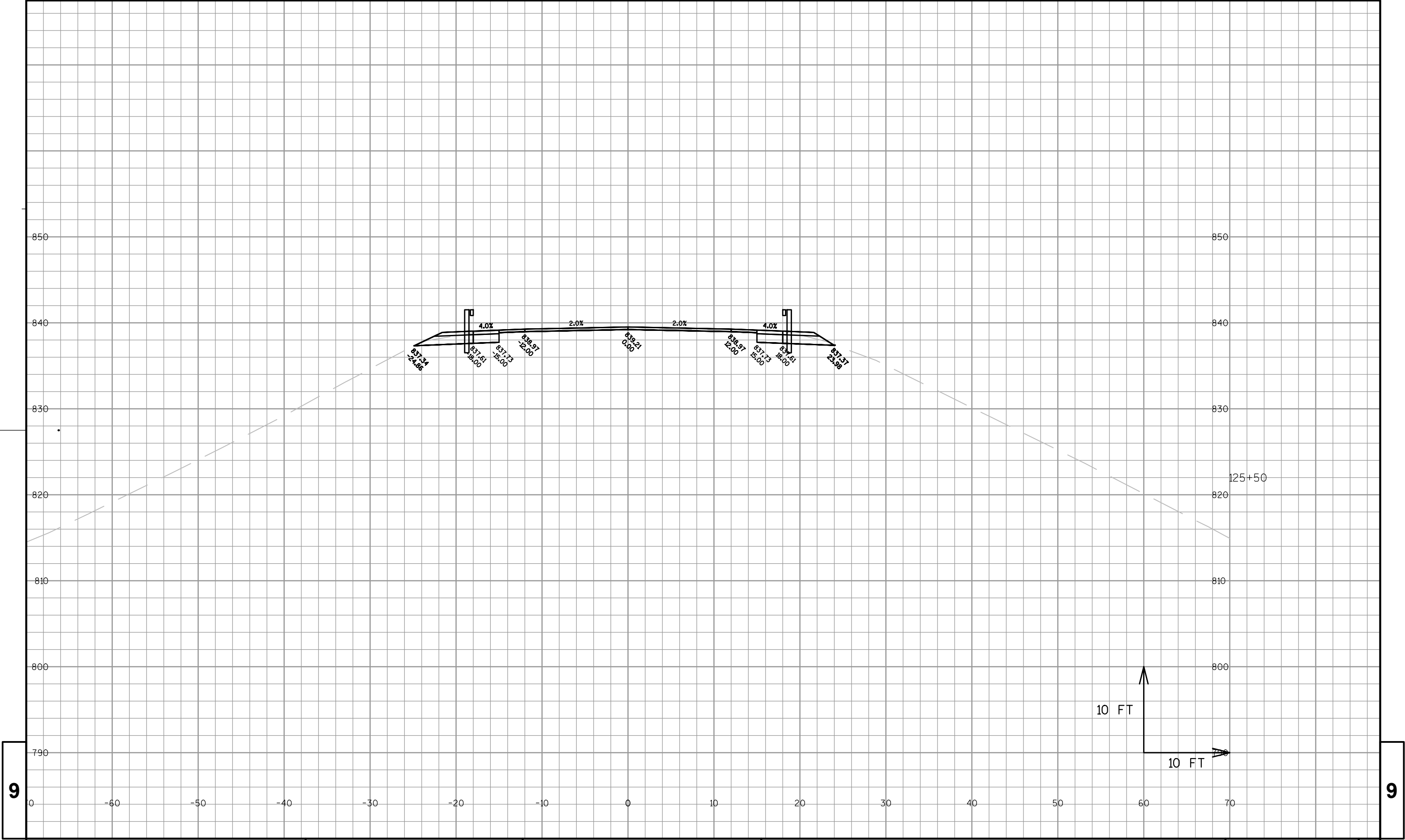
COUNTY: TREMPEALEAU

CROSS SECTIONS: BEAM GUARD WIDENINGS

SHEET

E





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PROJECT NO: 7505-00-71

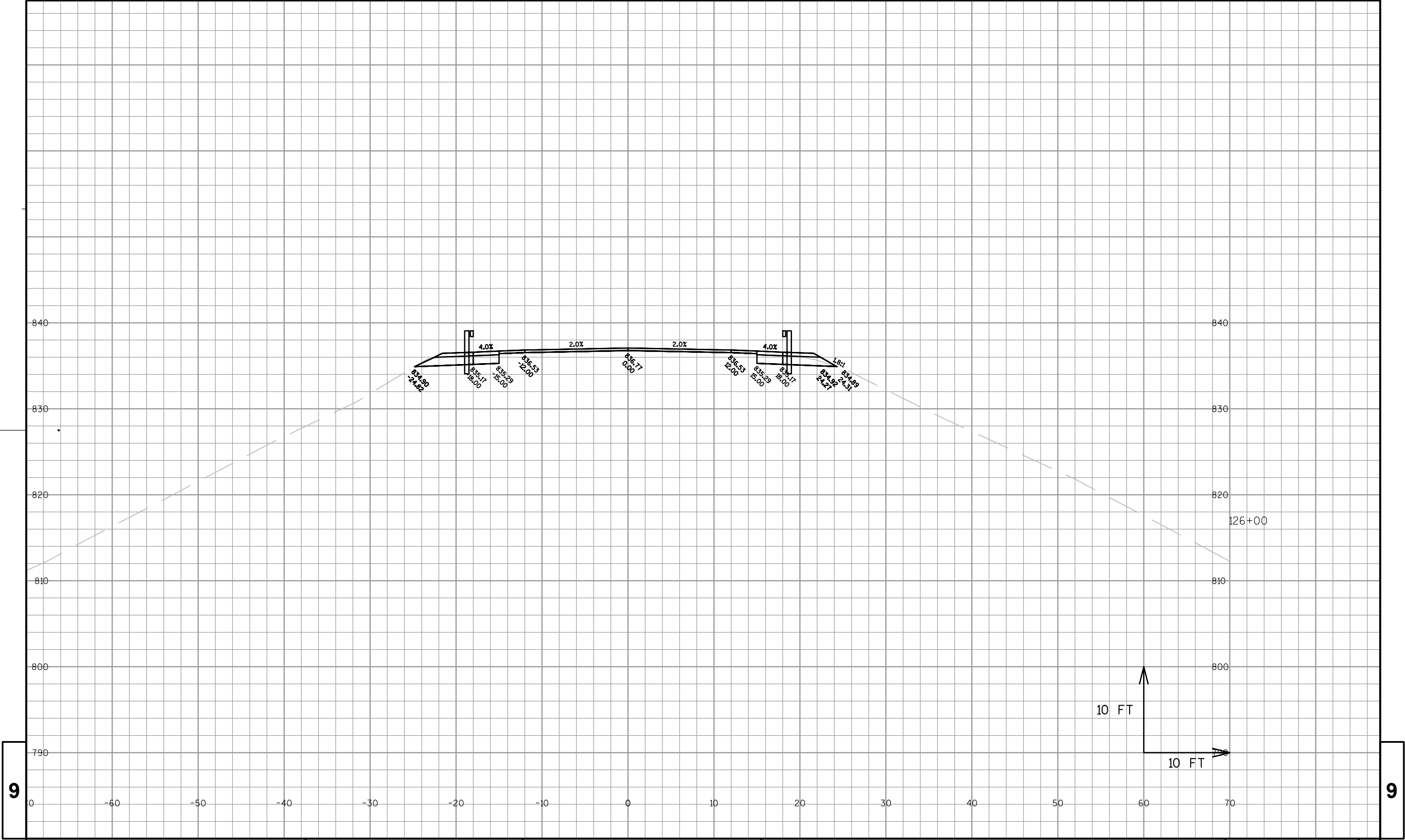
HWY: STH 121

COUNTY: TREMPEALEAU

CROSS SECTIONS: BEAM GUARD WIDENINGS

SHEET

E



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9

PROJECT NO: 7505-00-71

HWY: STH 121

COUNTY: TREMPLEAU

CROSS SECTIONS: BEAM GUARD WIDENINGS

SHEET

E

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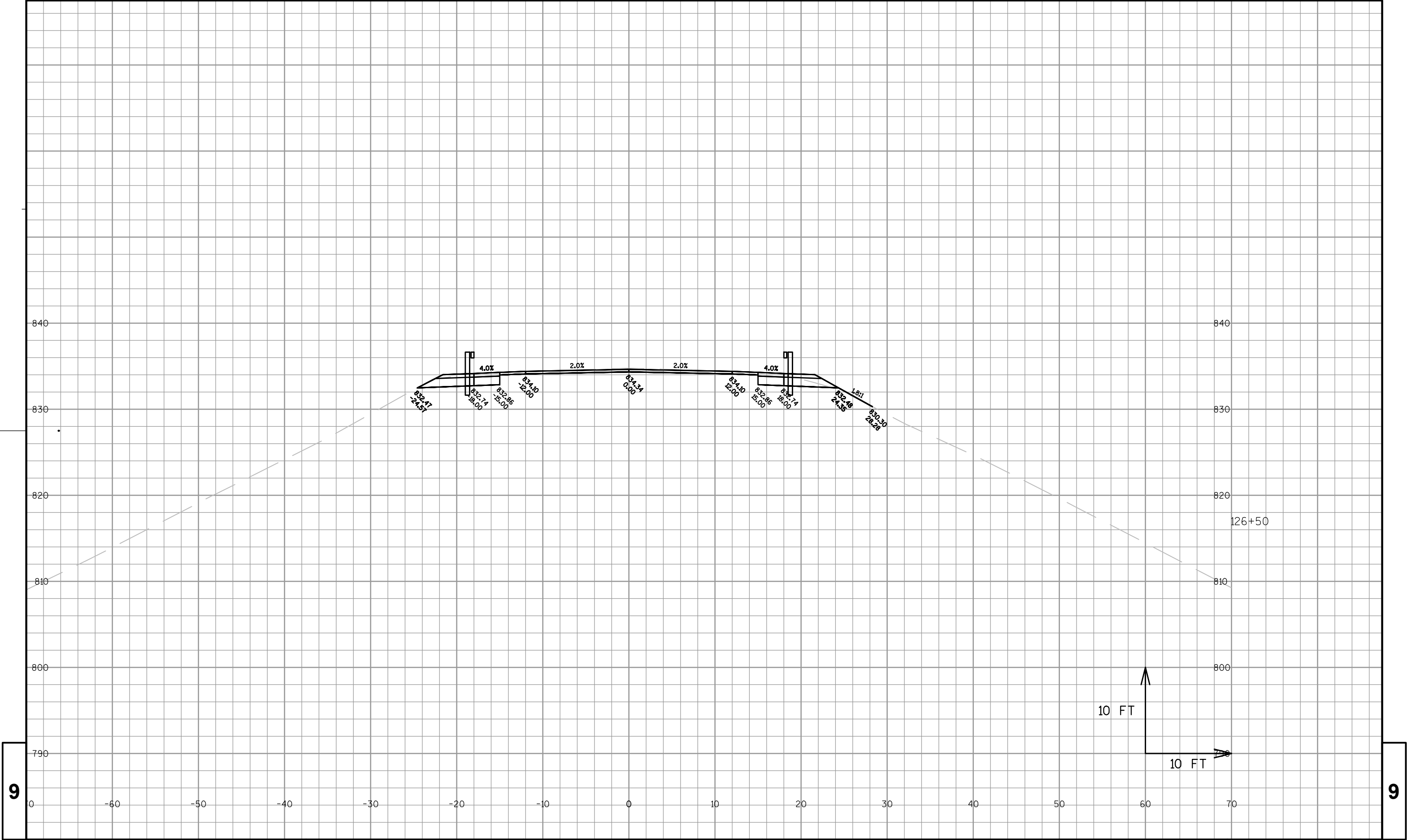
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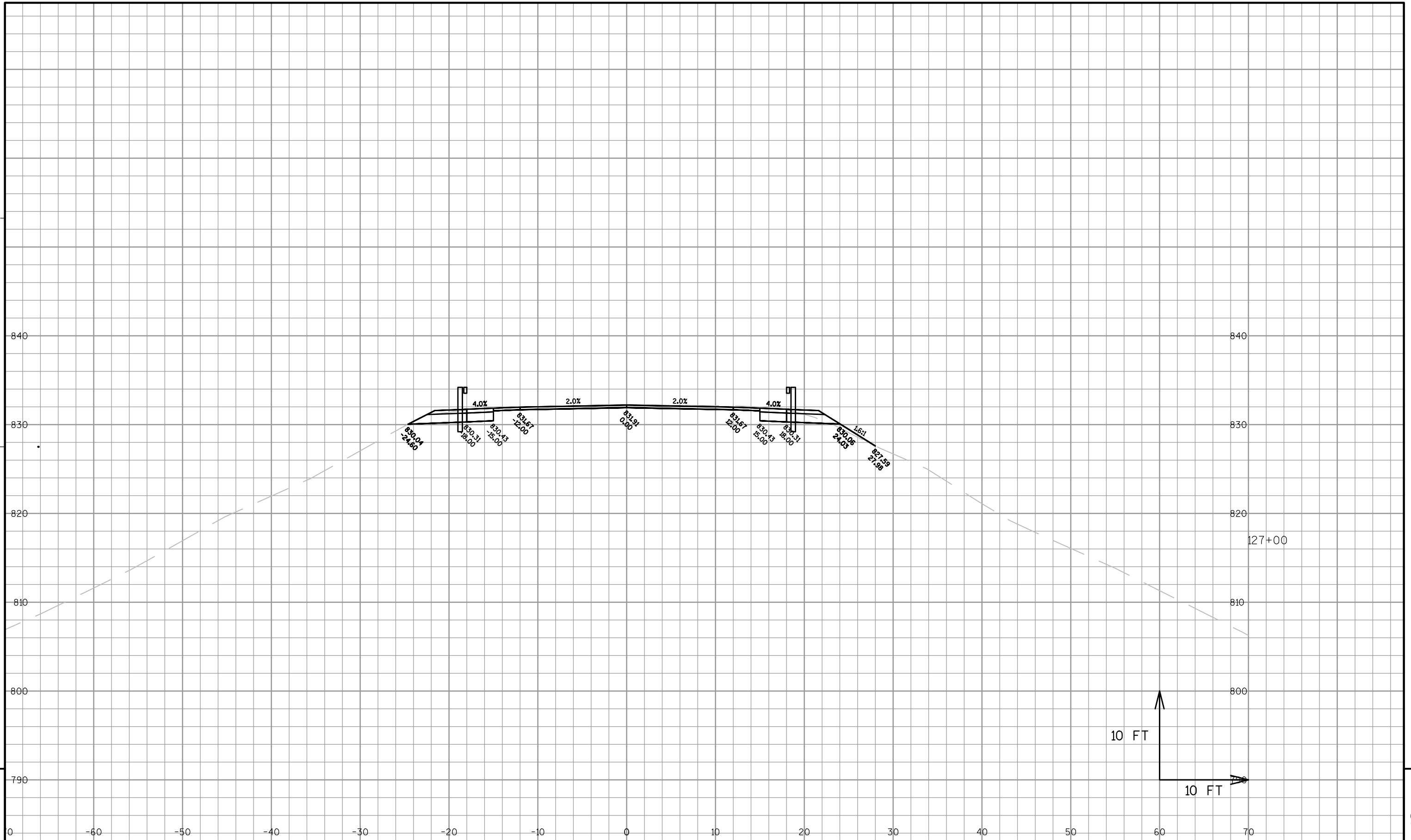
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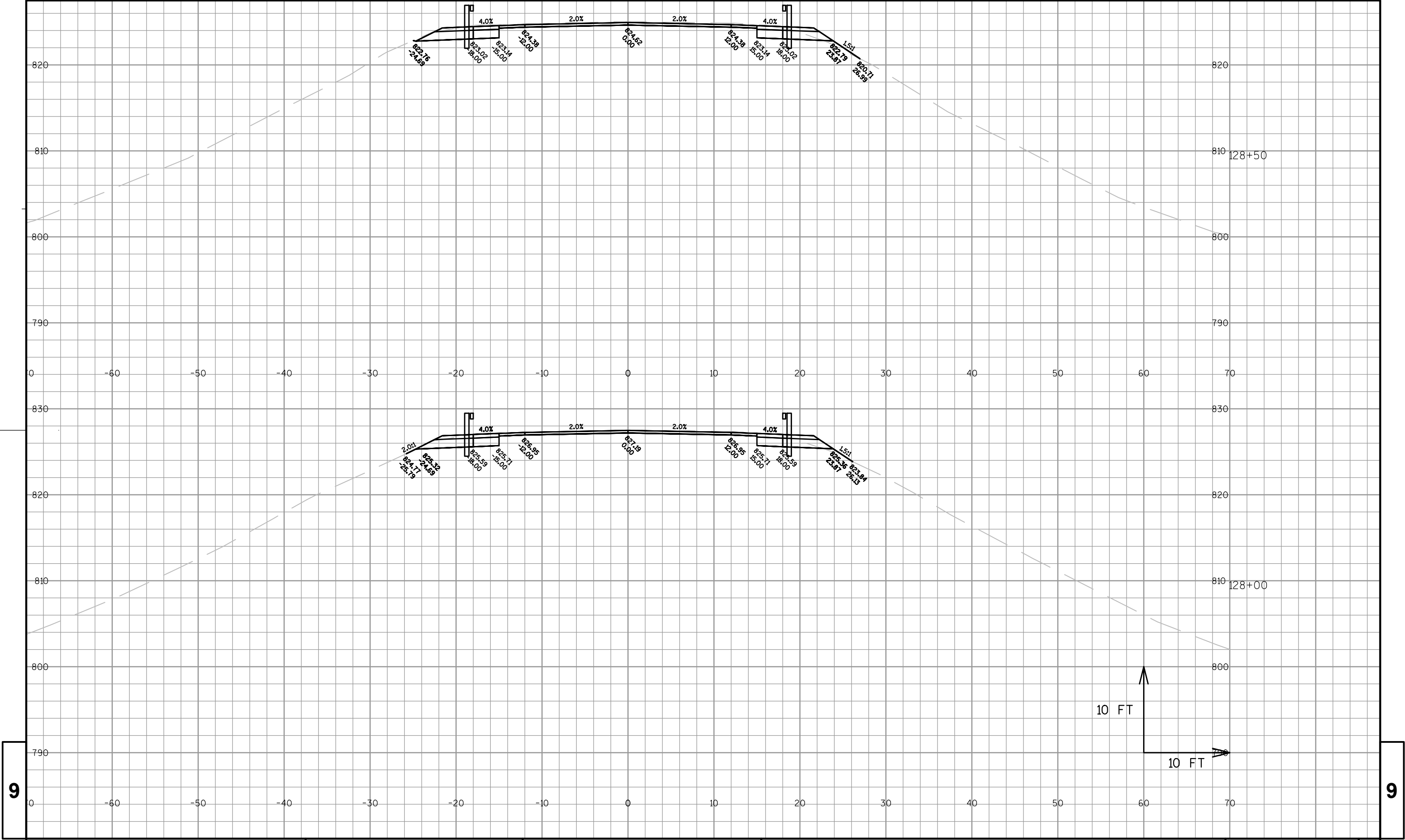
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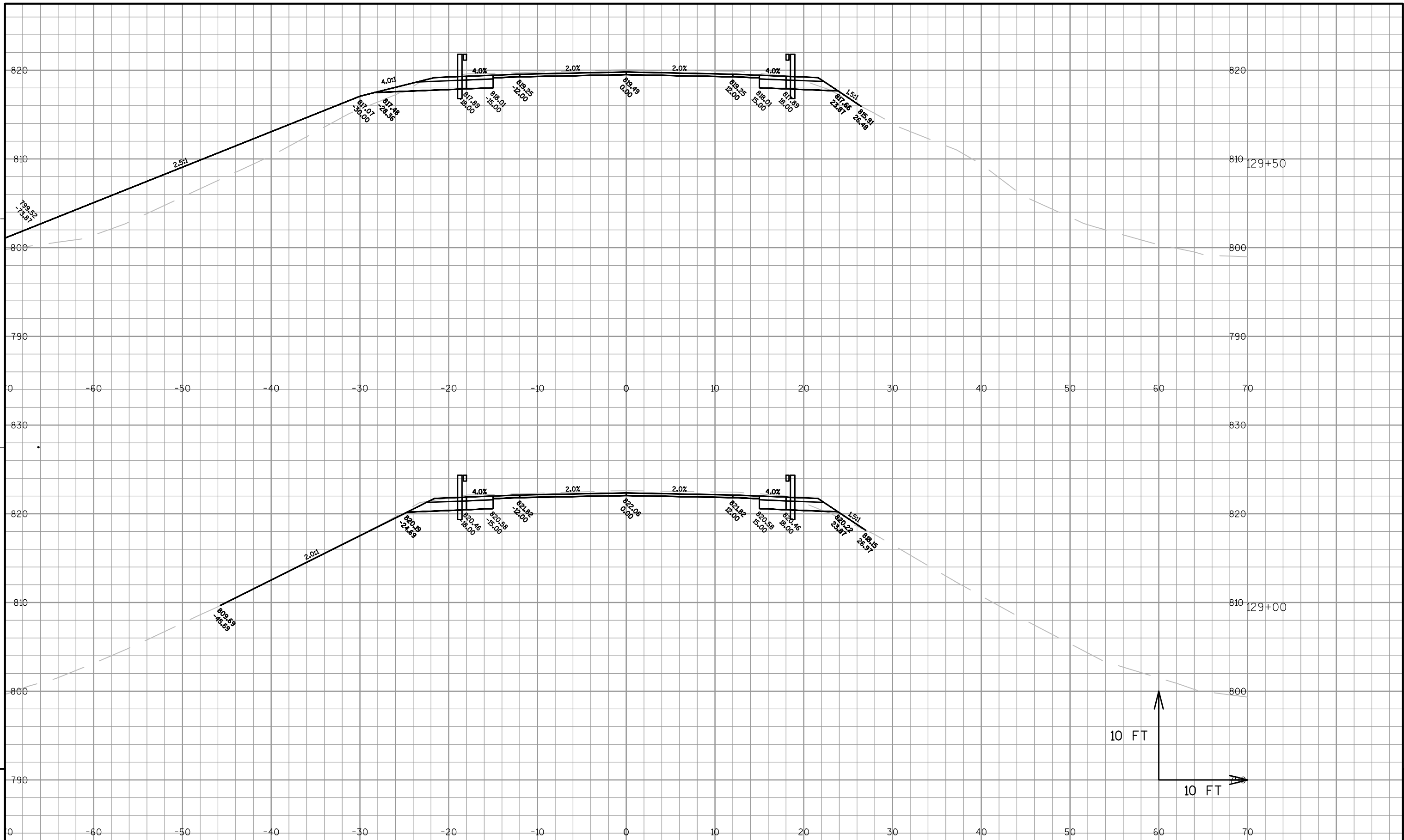
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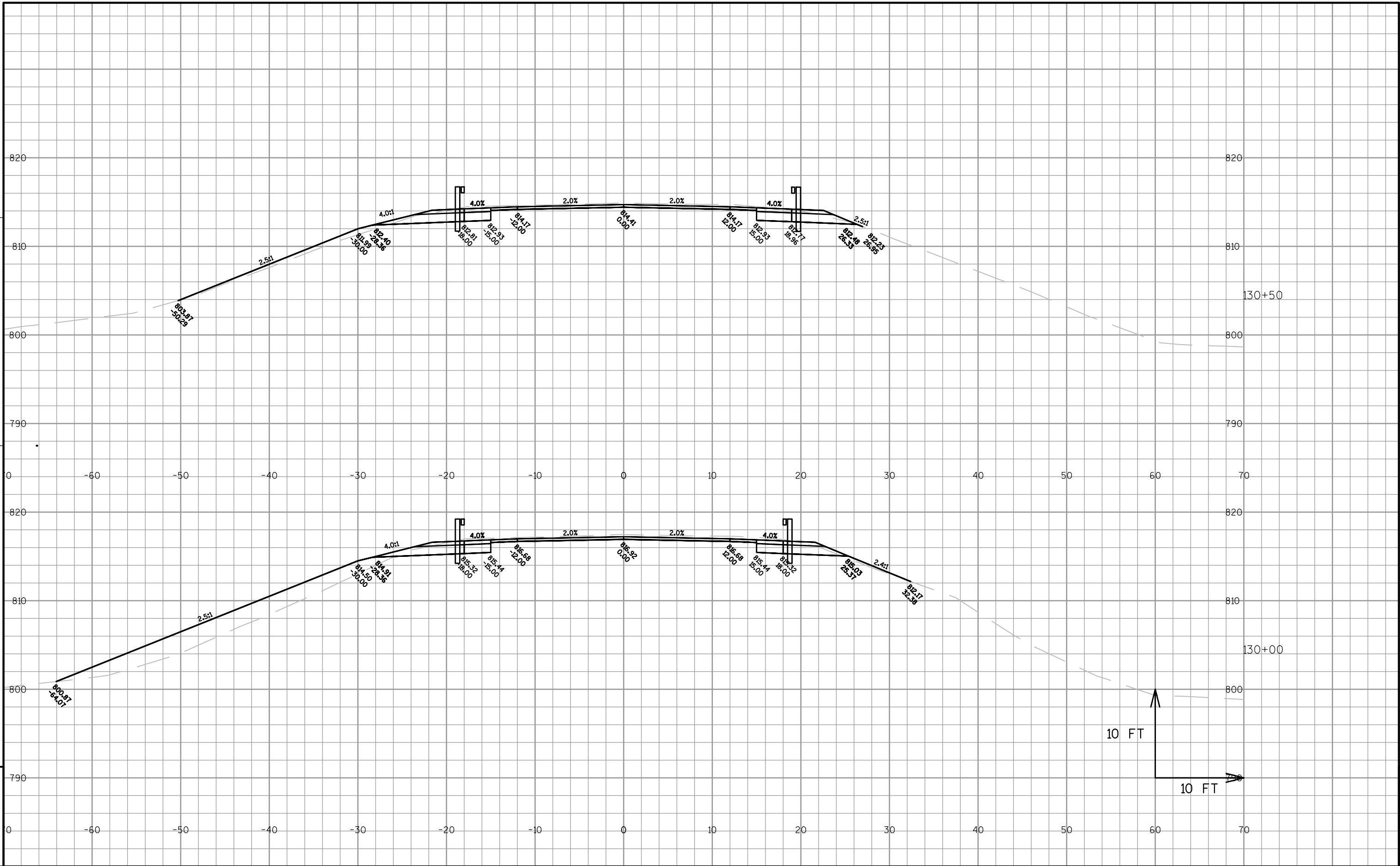
WISDOT/CADDs SHEET 49

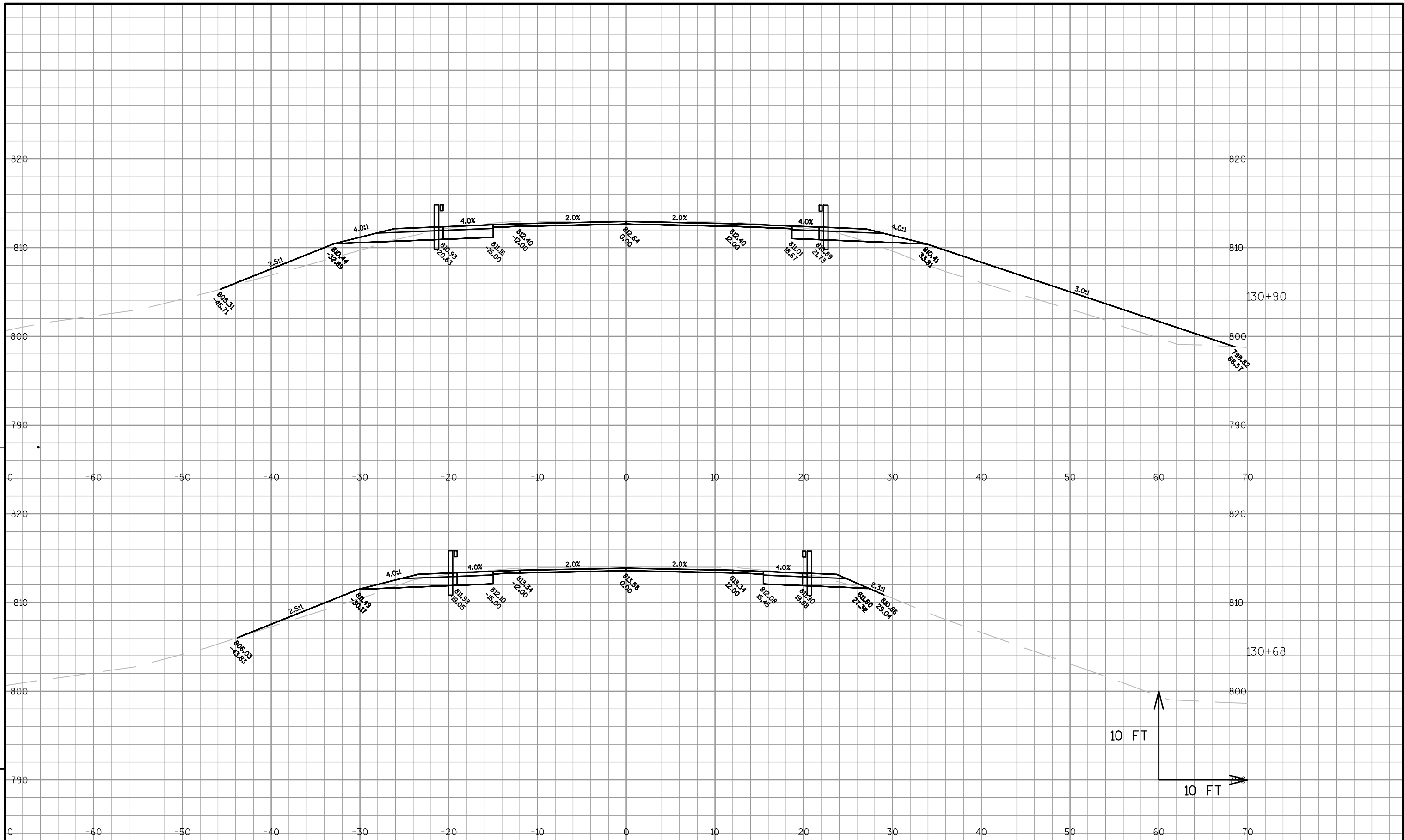


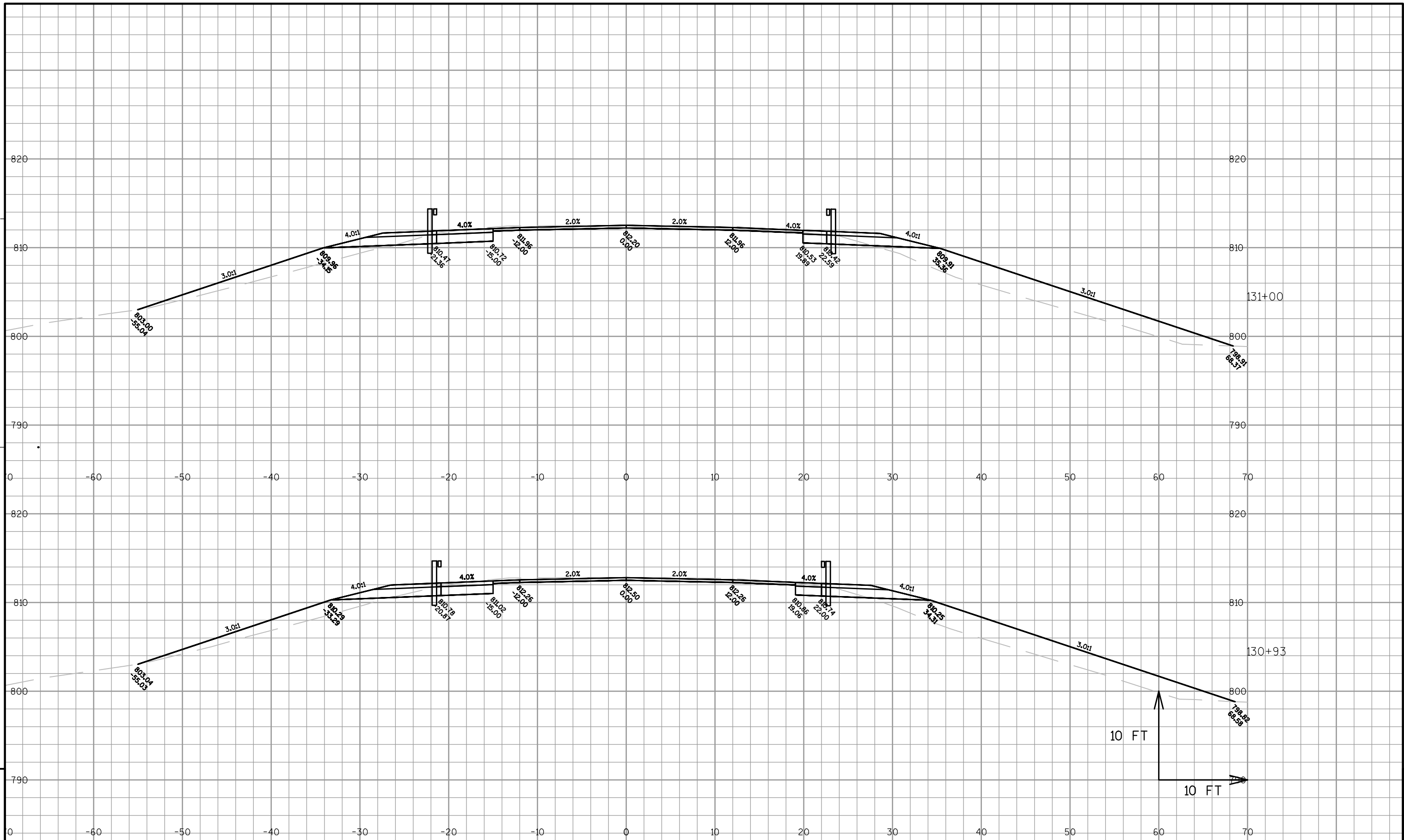


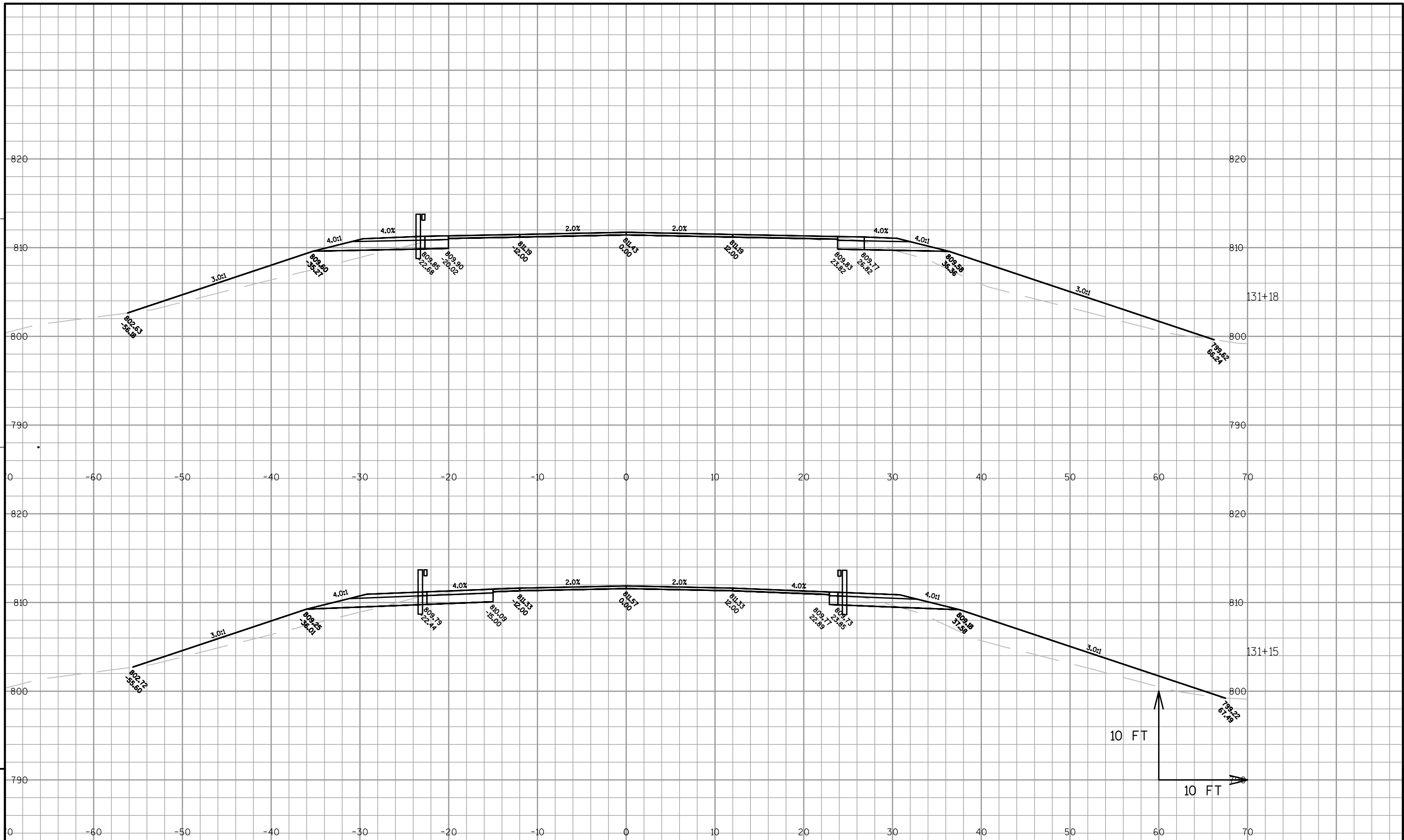


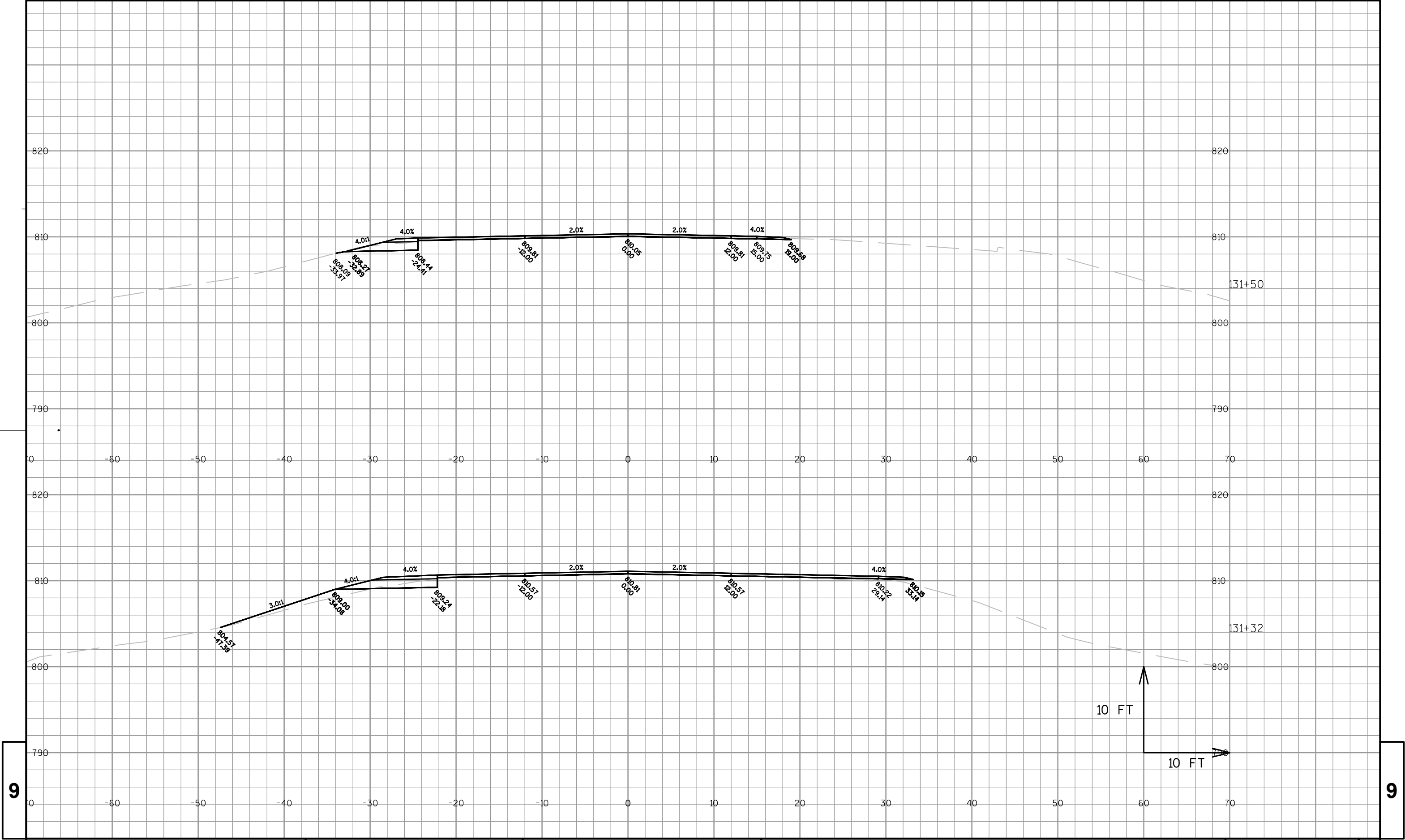












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PROJECT NO: 7505-00-71

HWY: STH 121

COUNTY: TREMPEALEAU

CROSS SECTIONS: BEAM GUARD WIDENINGS

SHEET

E

FILE NAME : P:\90S\93\00093136\CADD\CIVIL\DESIGN\CORRIDORS\STH 121\CORRIDOR_A4 - PREL_PLAN111213.DWG

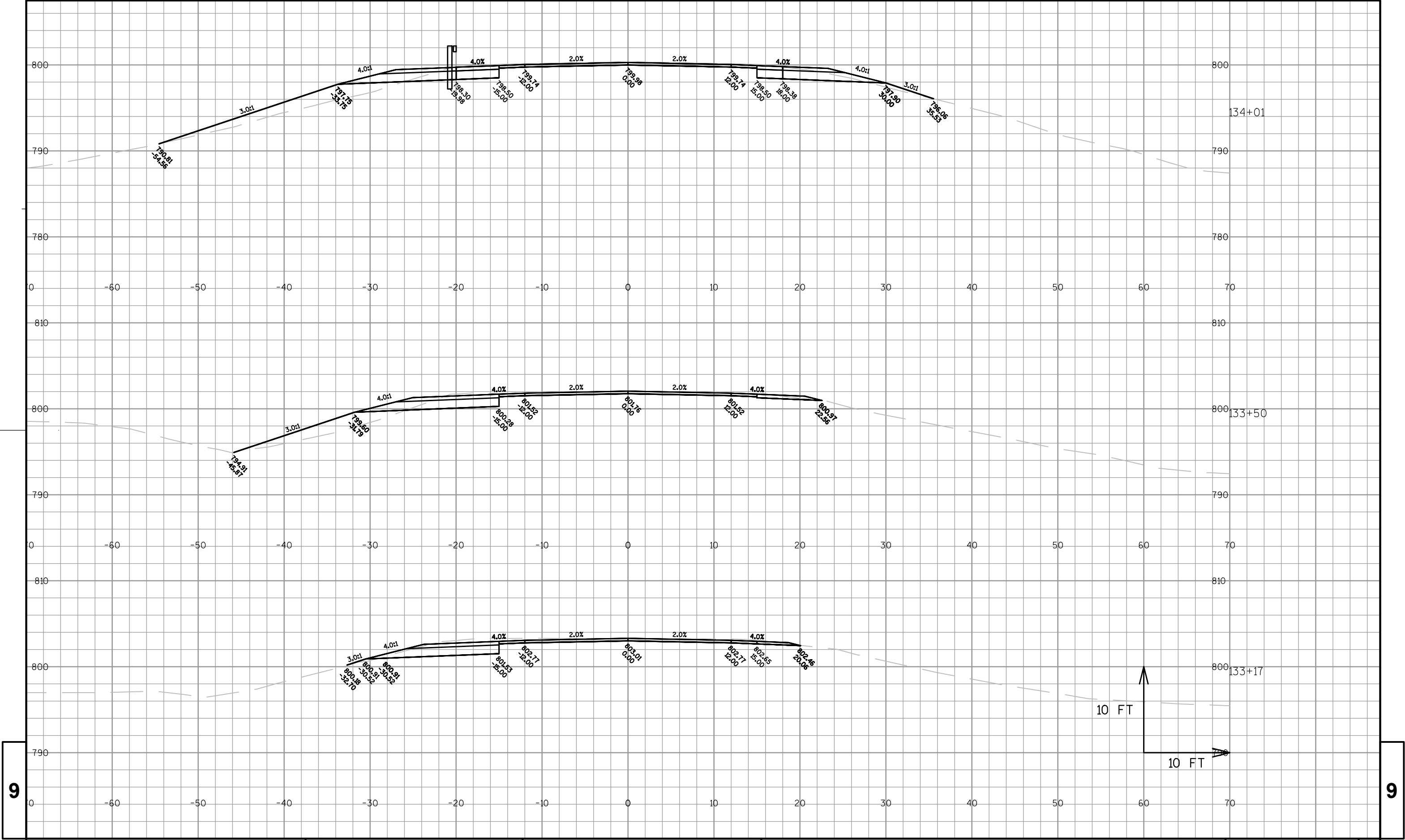
PLOT DATE : 1/29/2014 8:26 AM

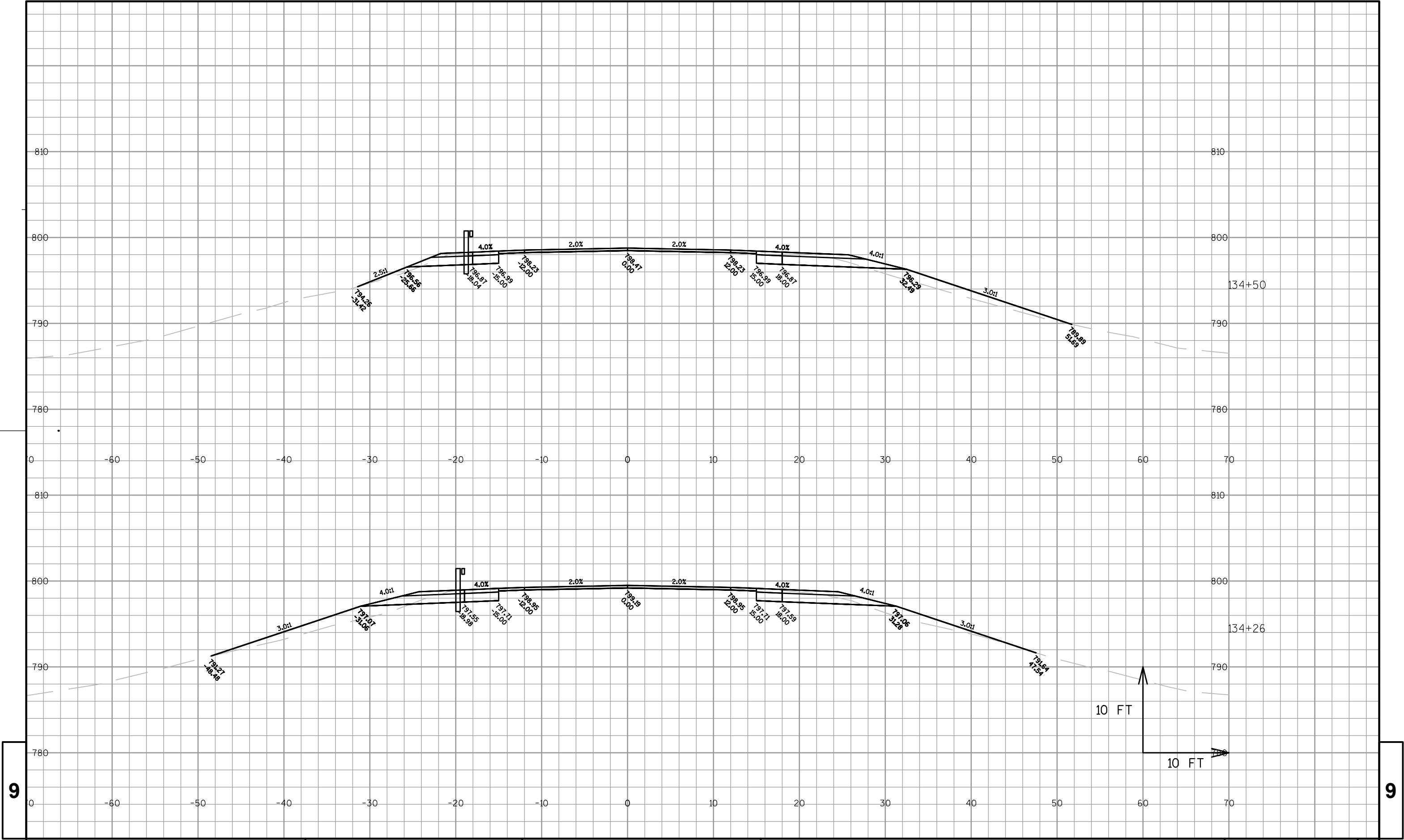
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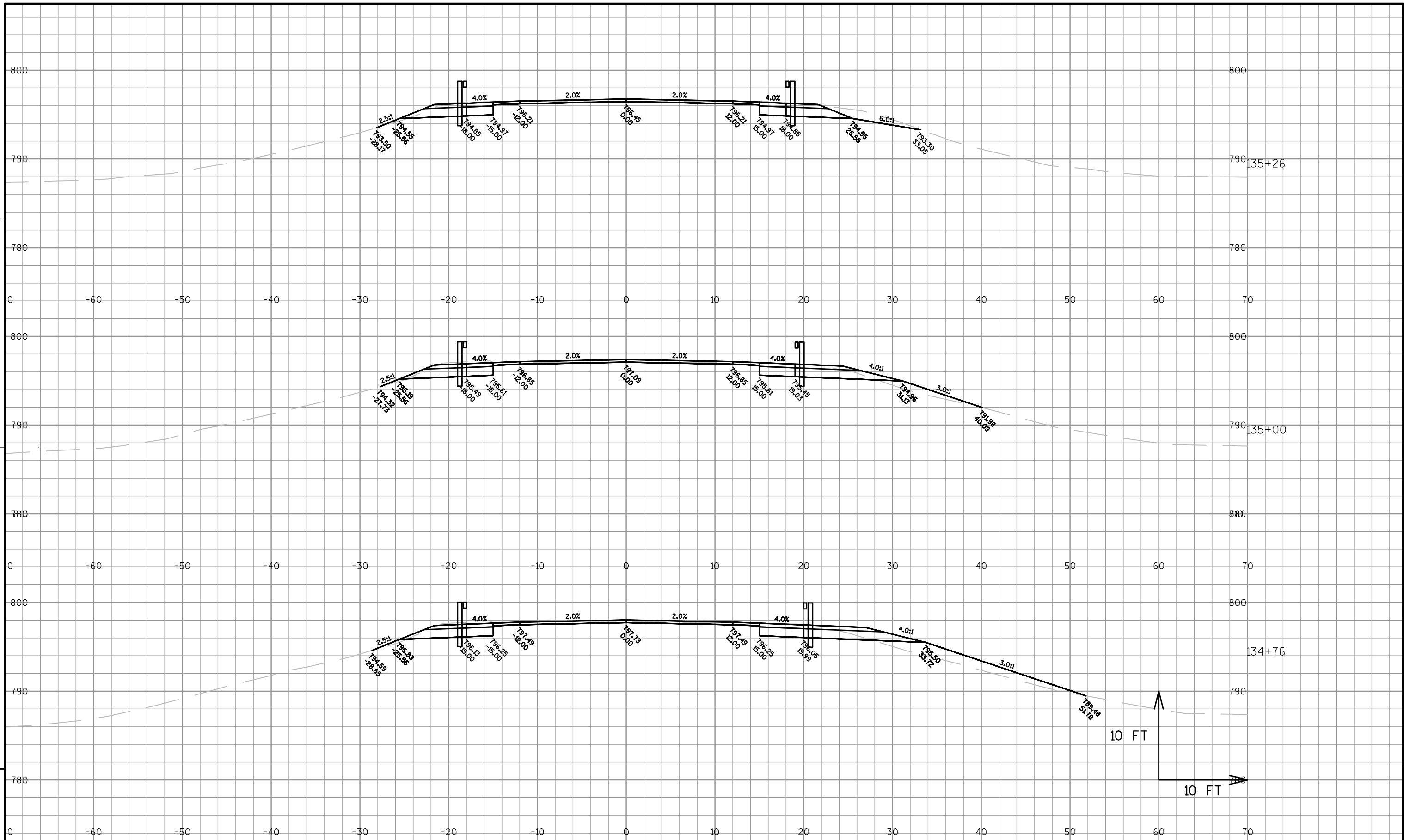
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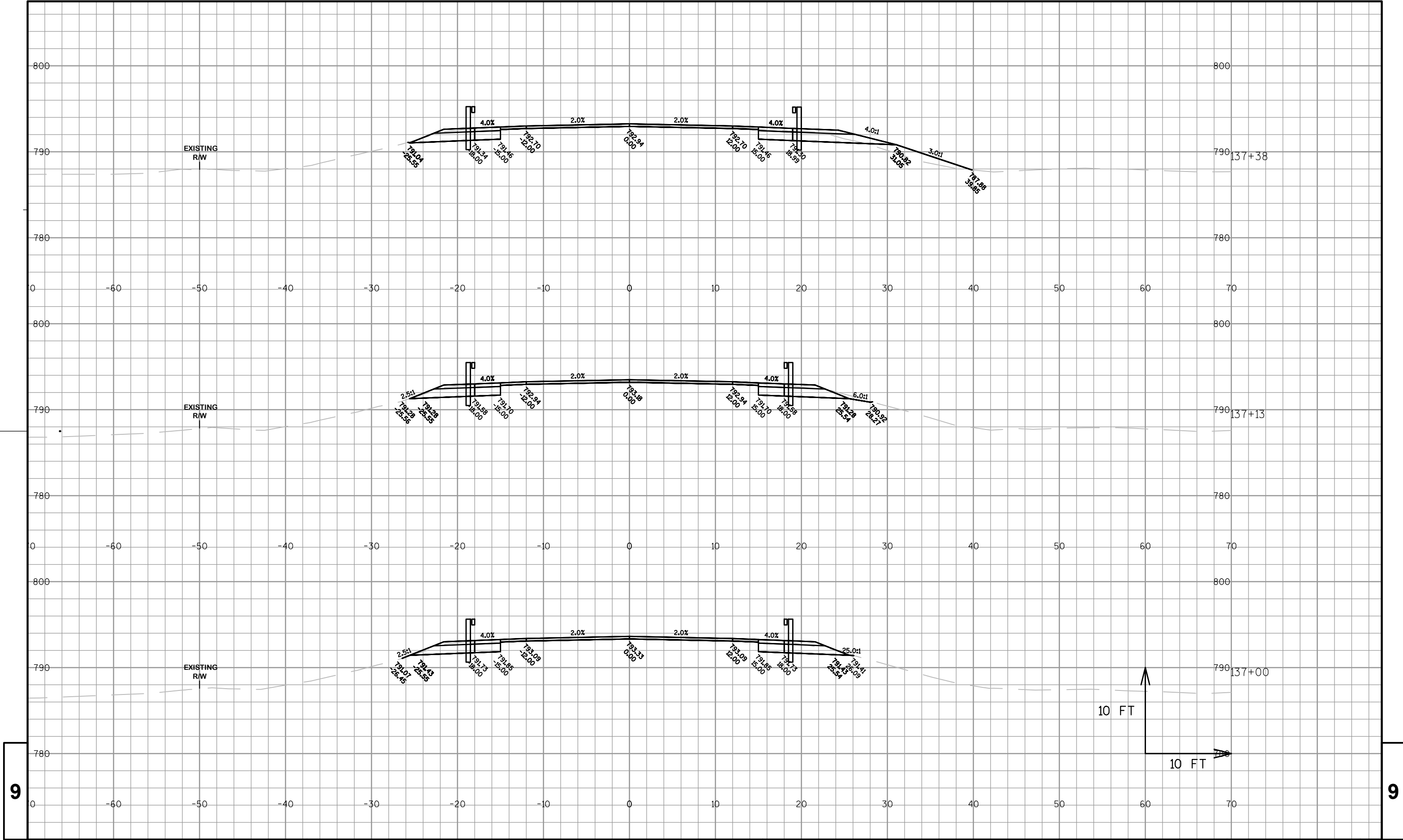
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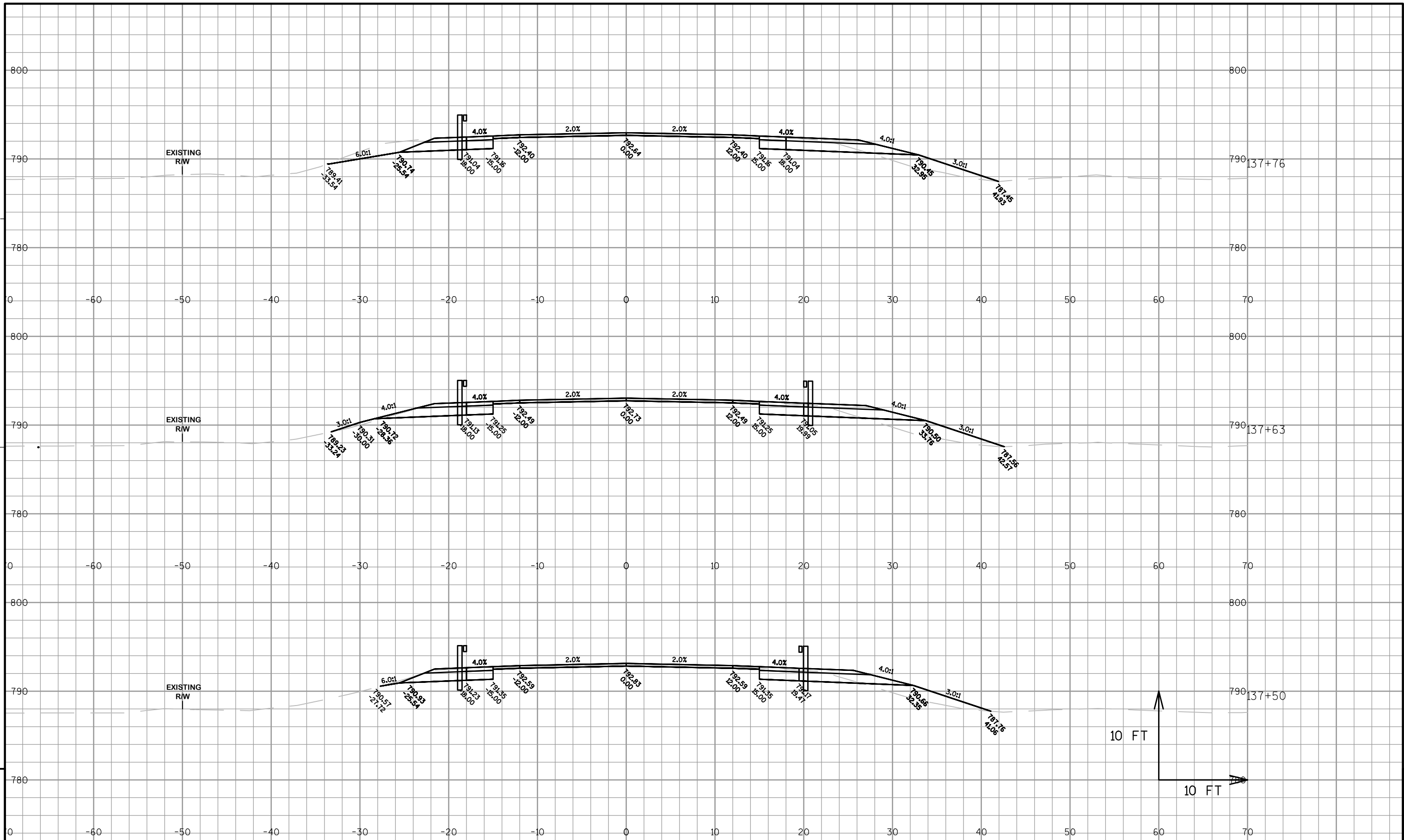
WISDOT/CADDs SHEET 49

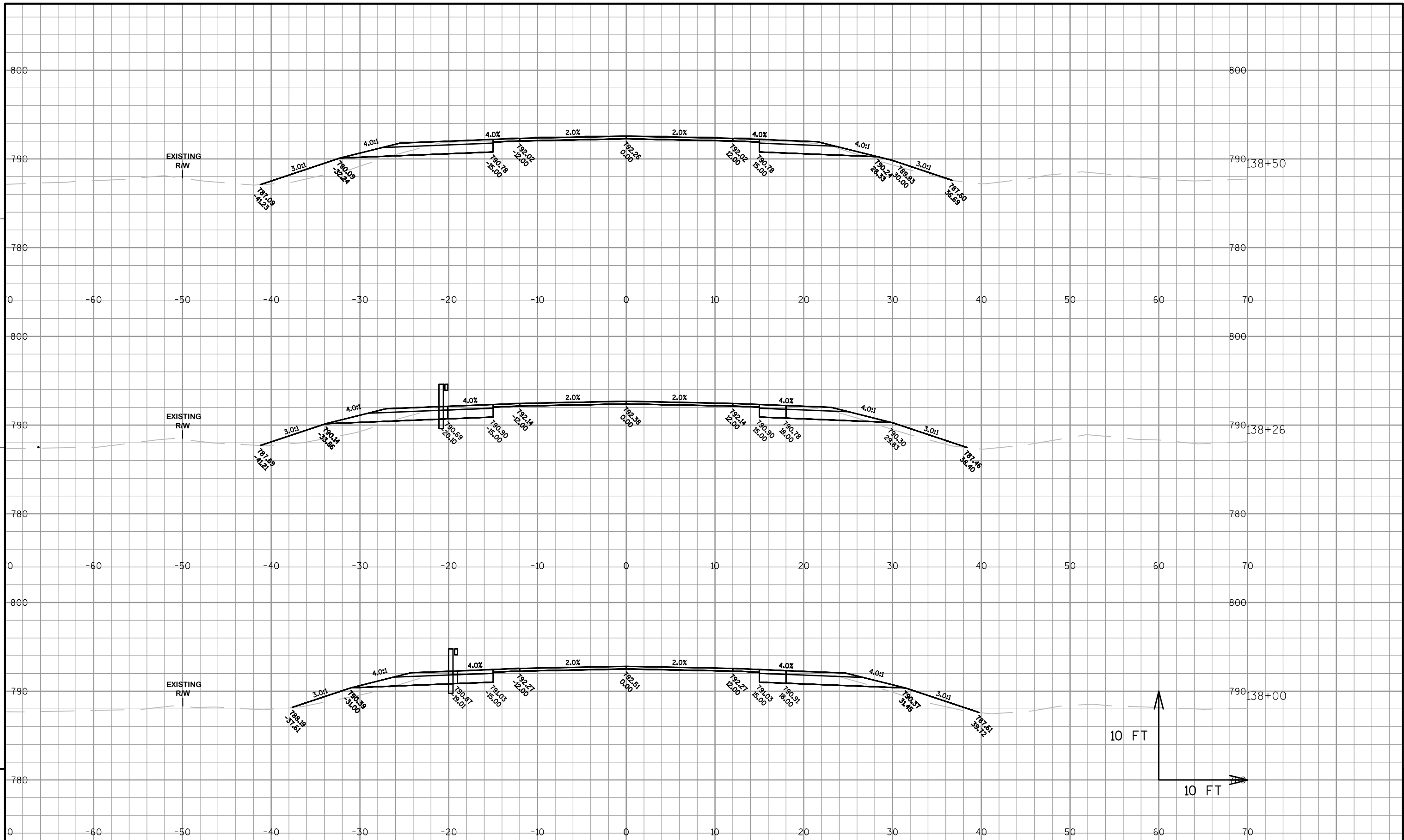


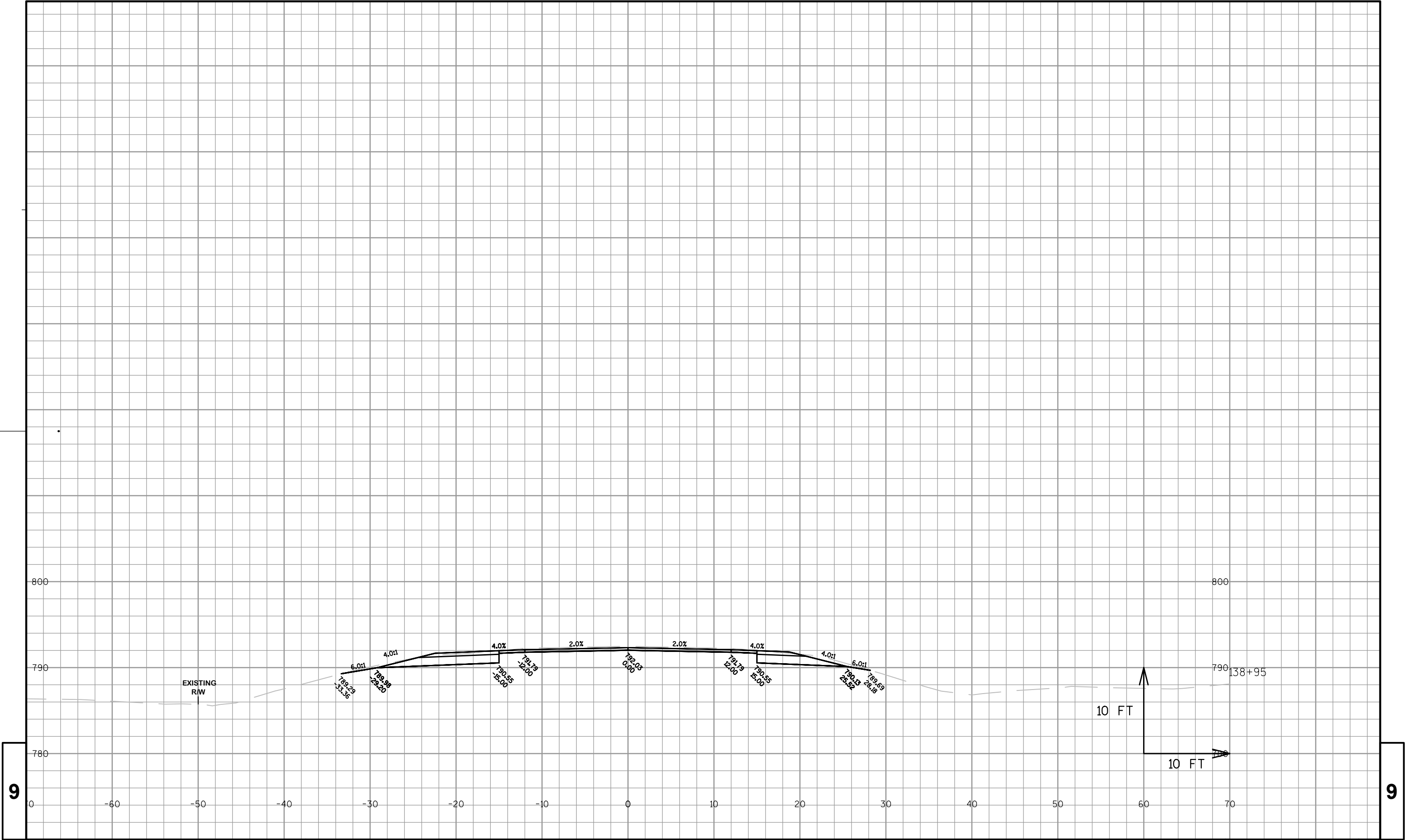


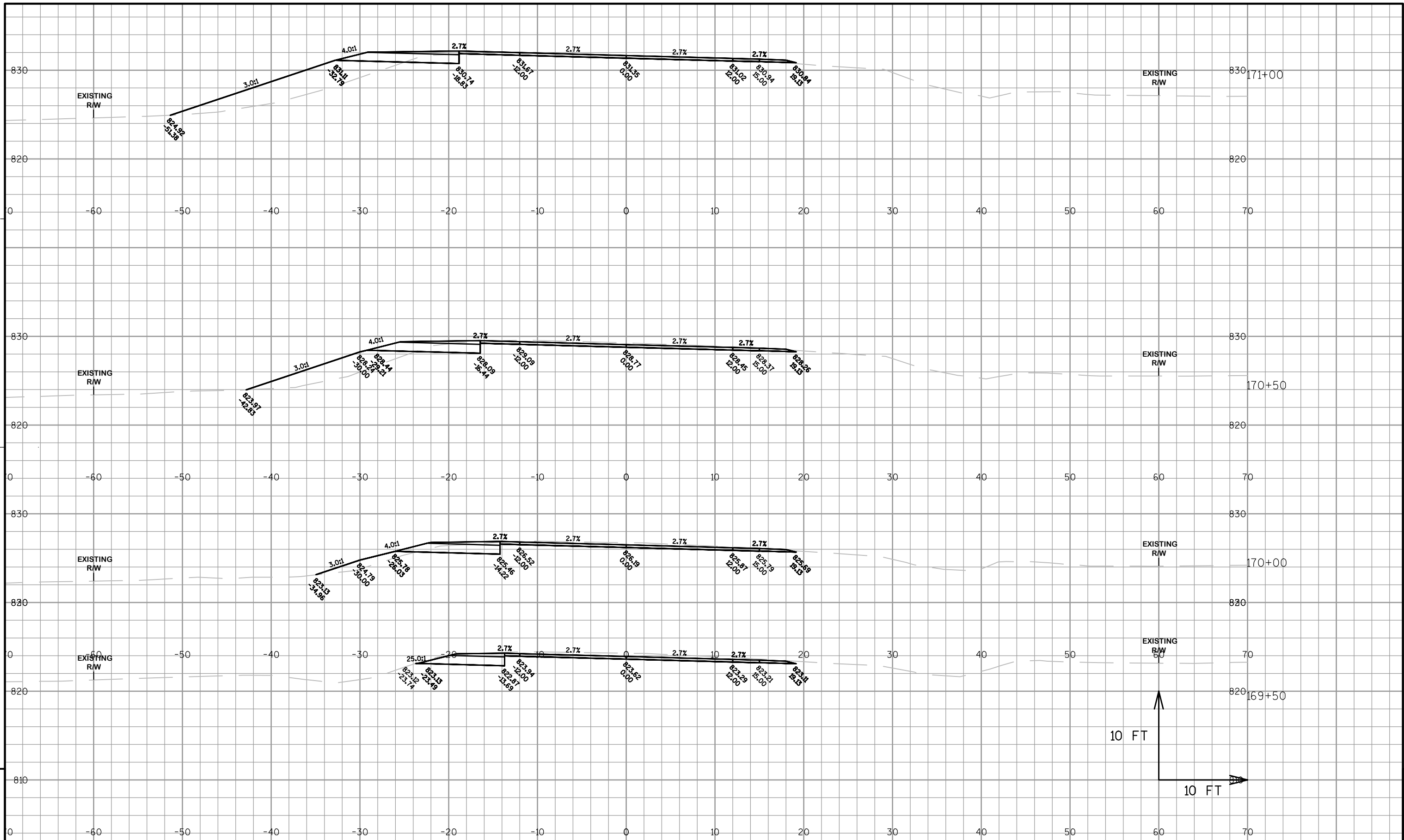


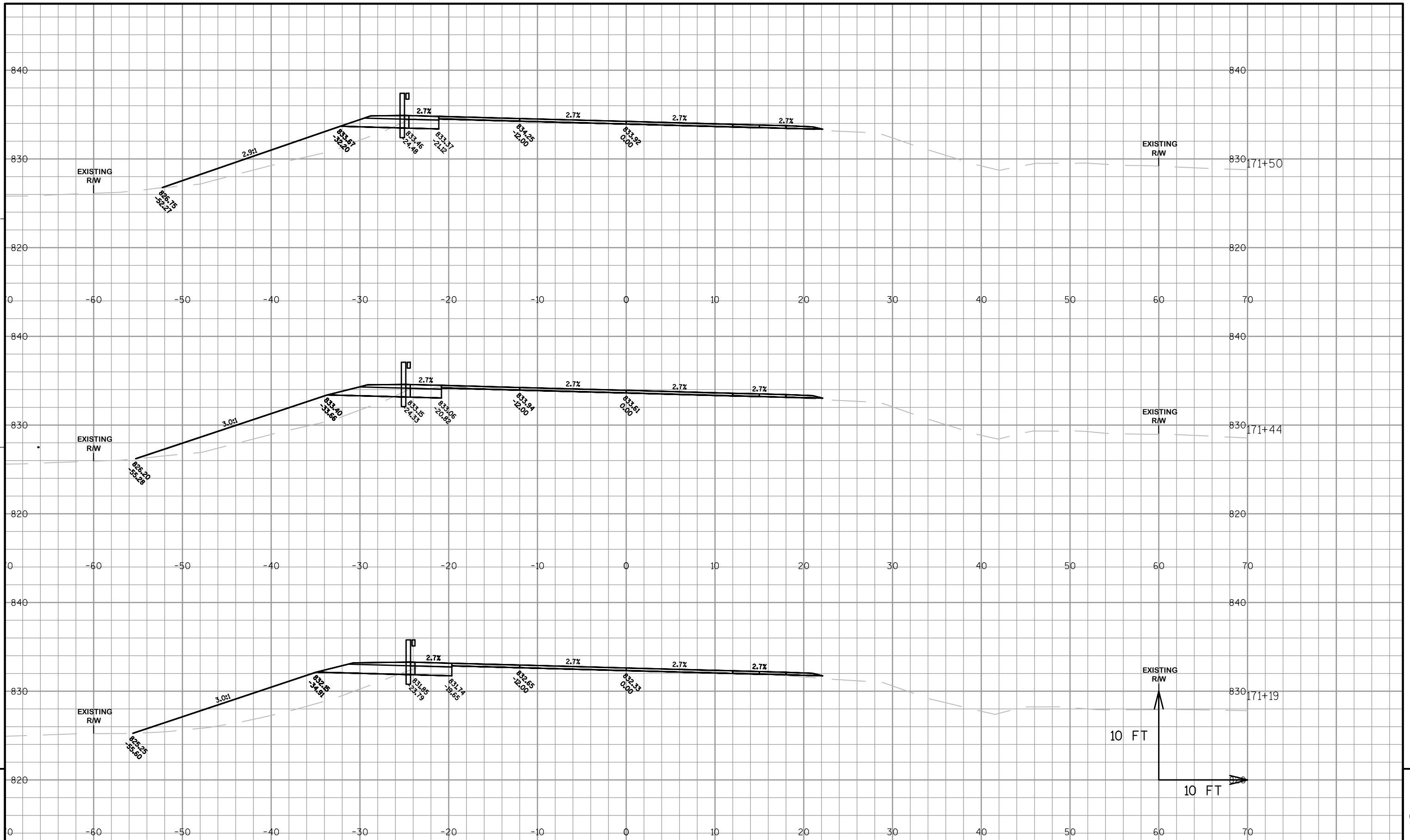


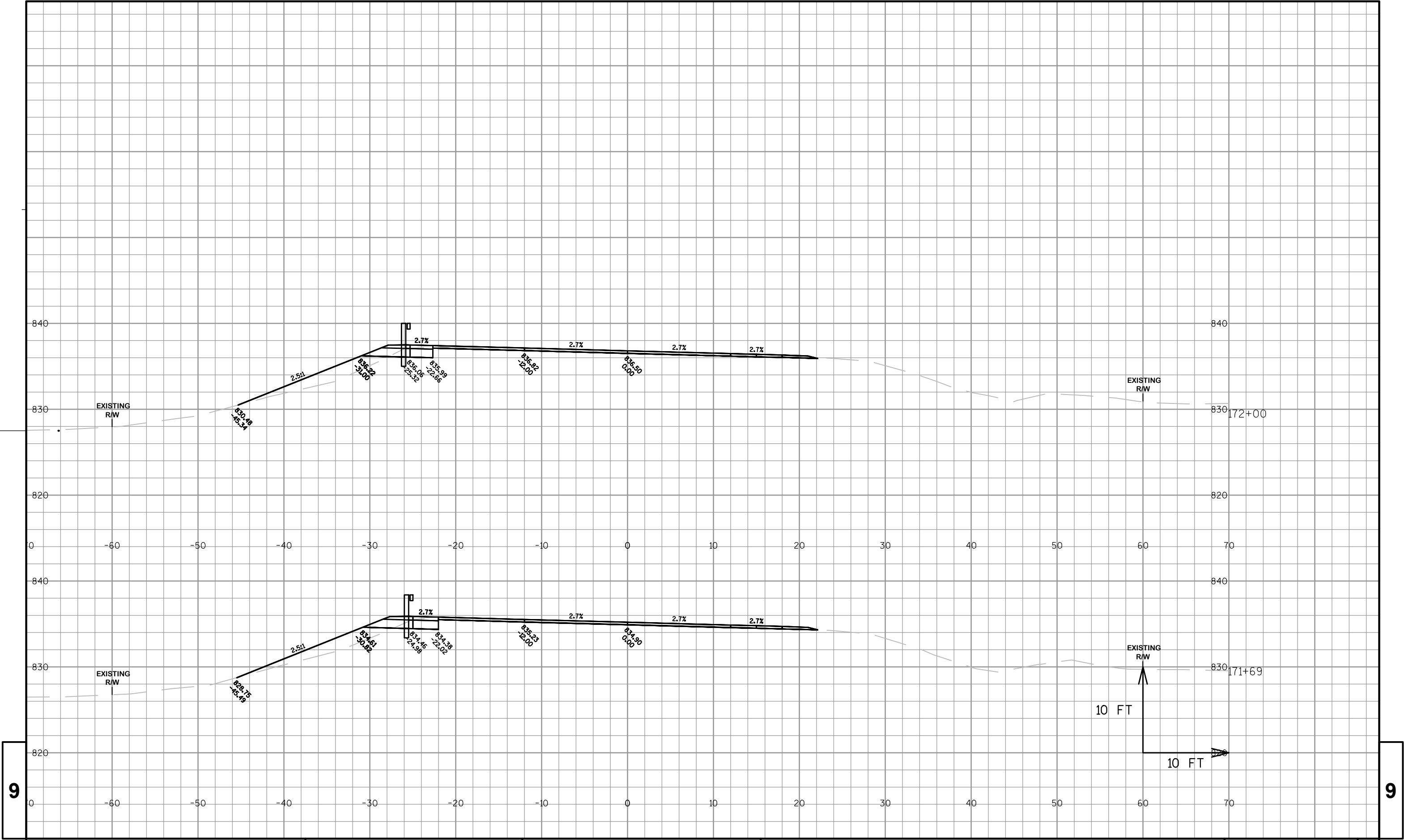


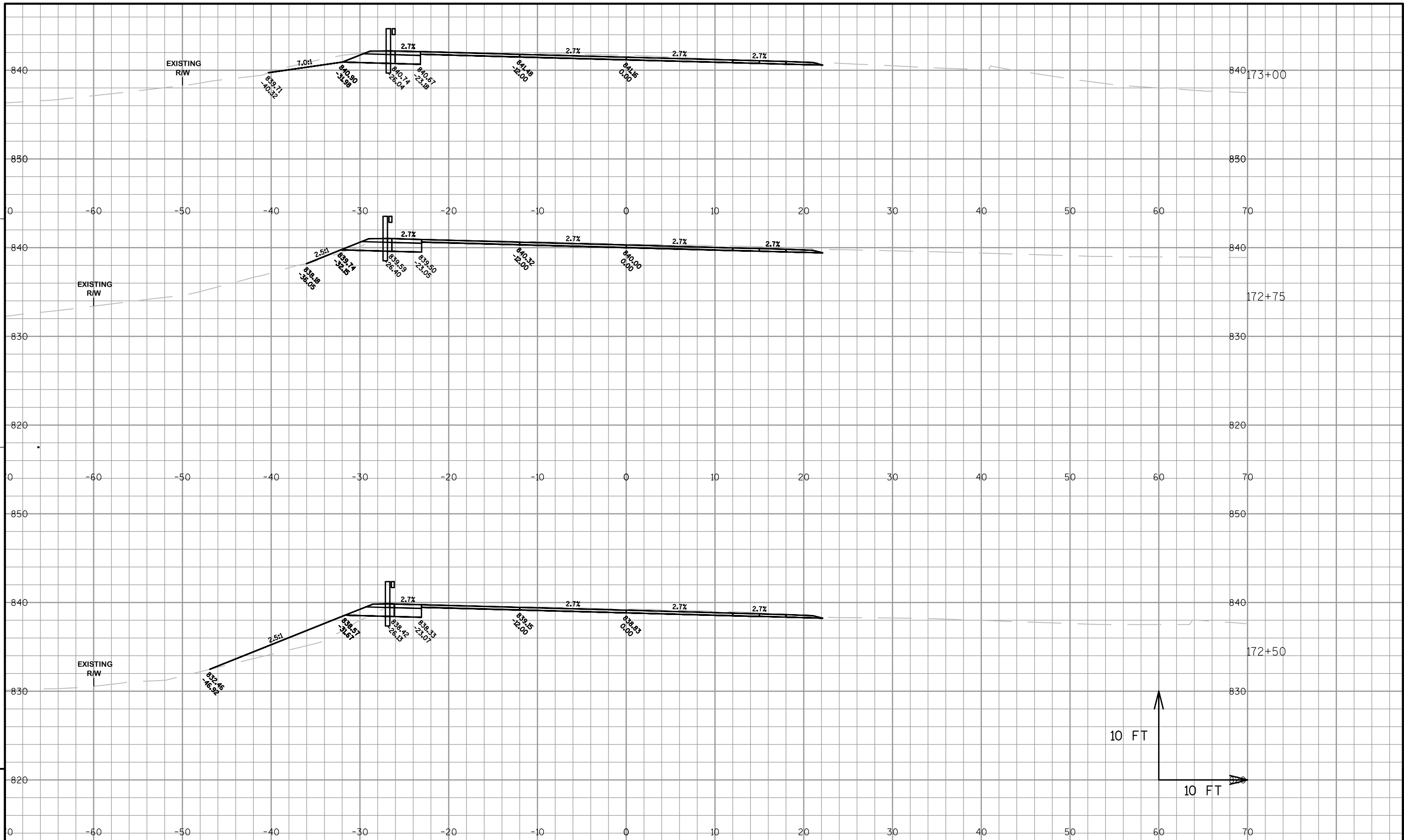


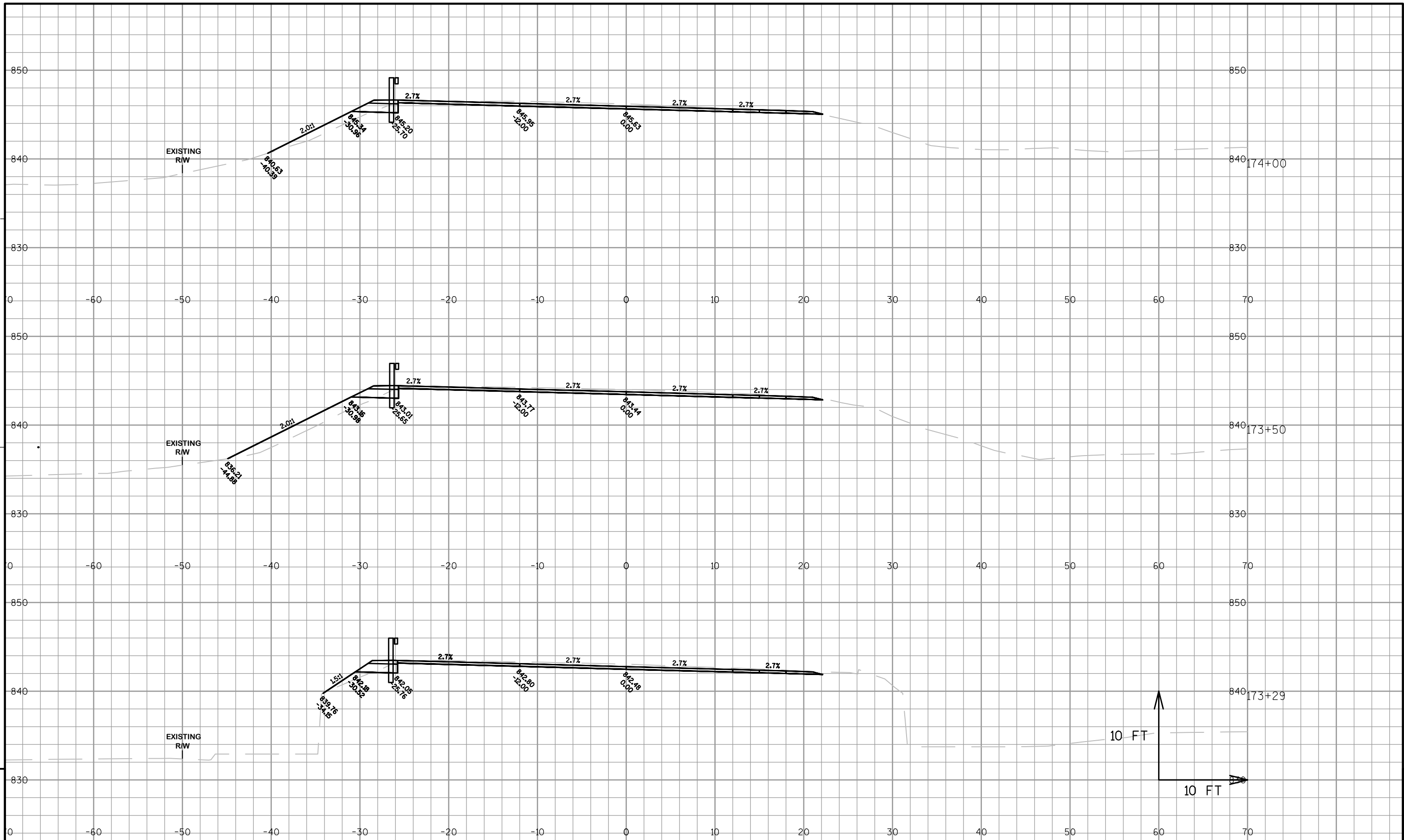


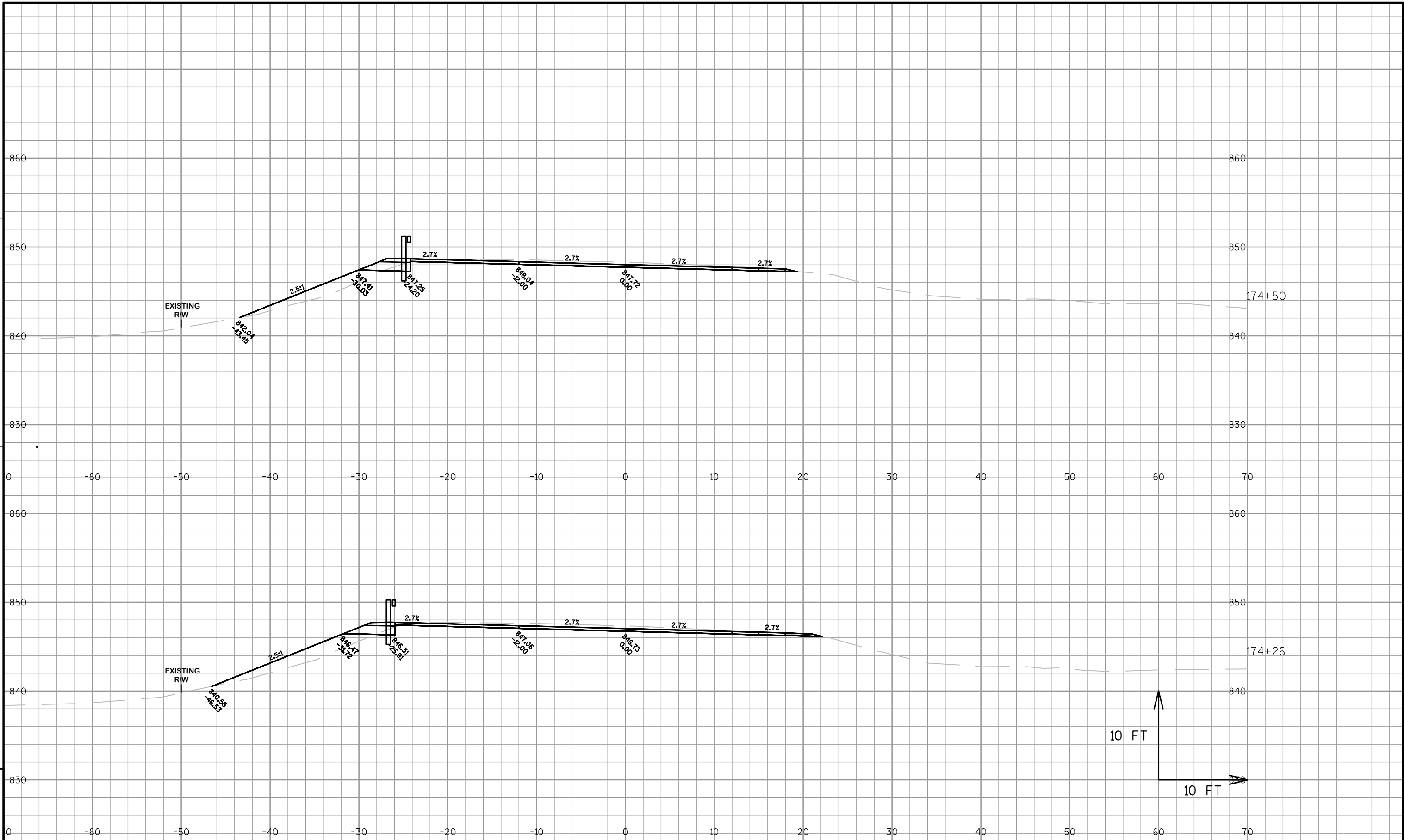


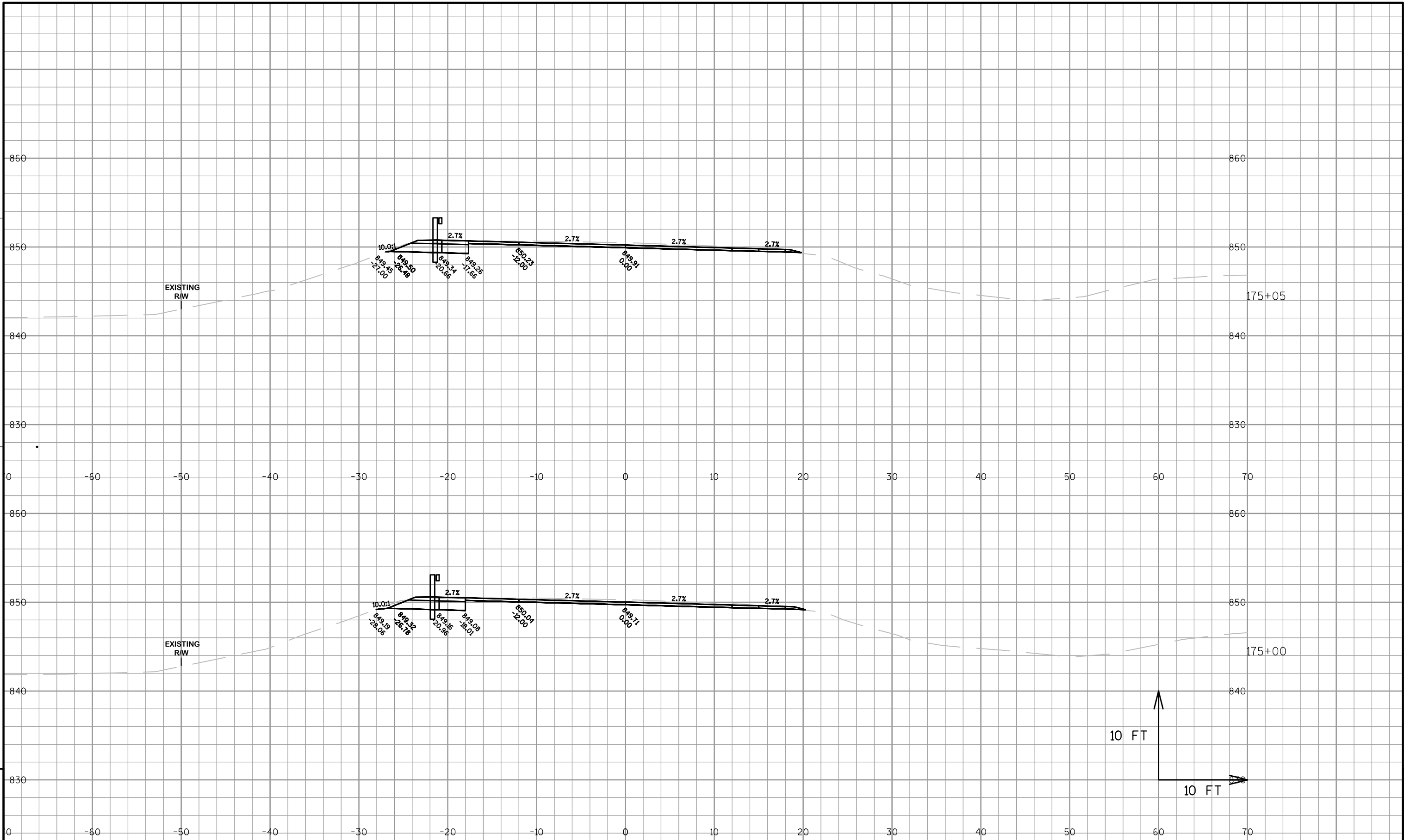


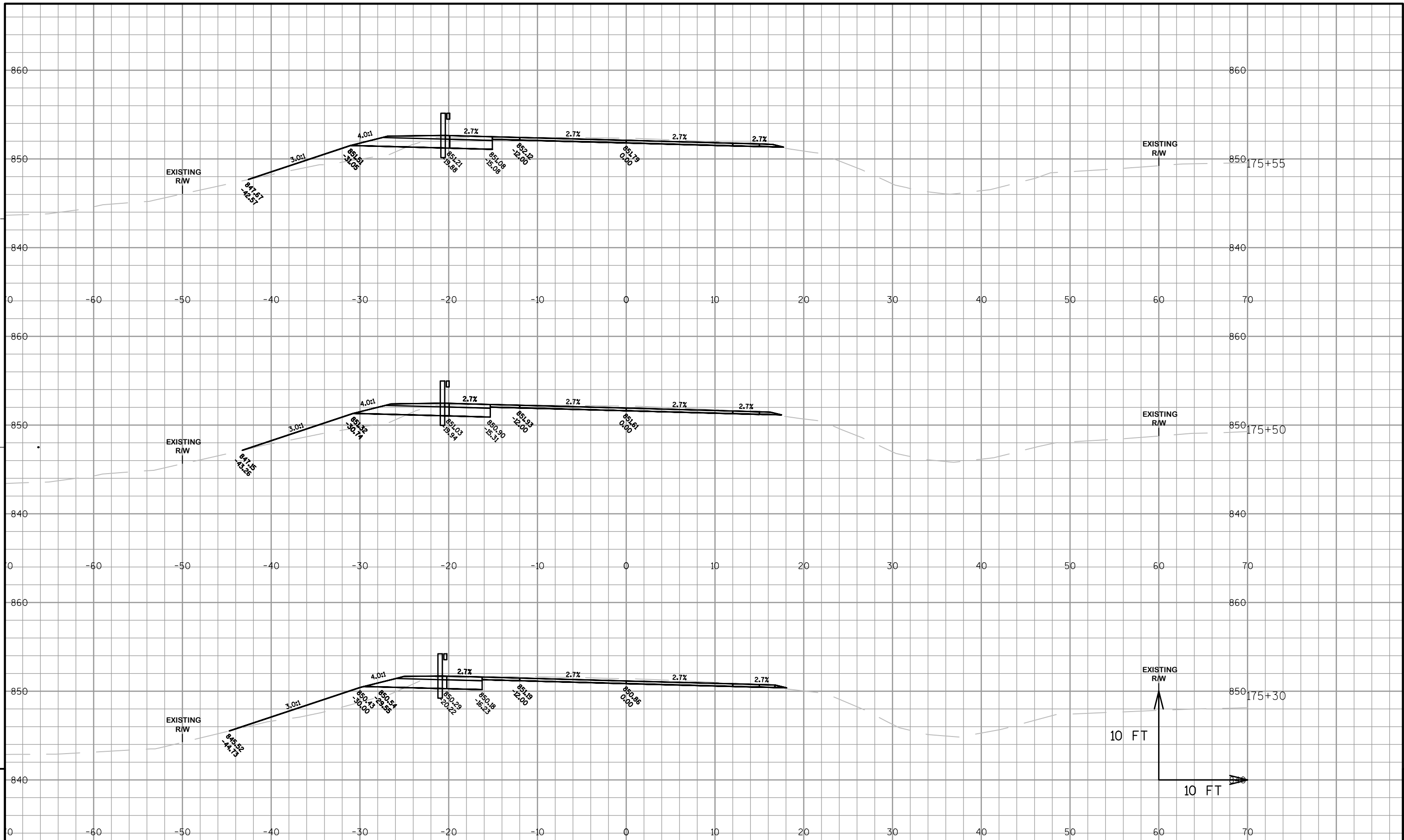


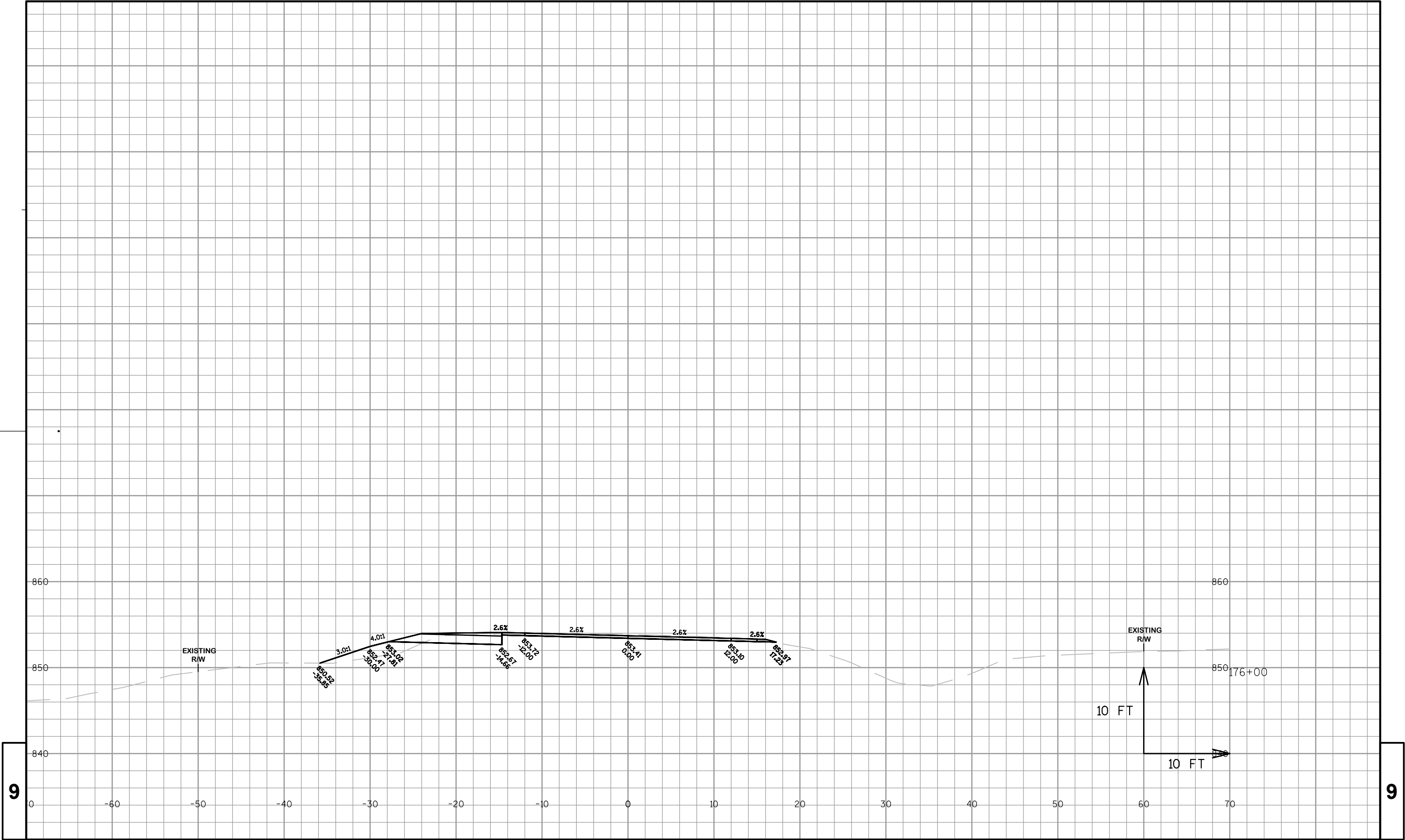


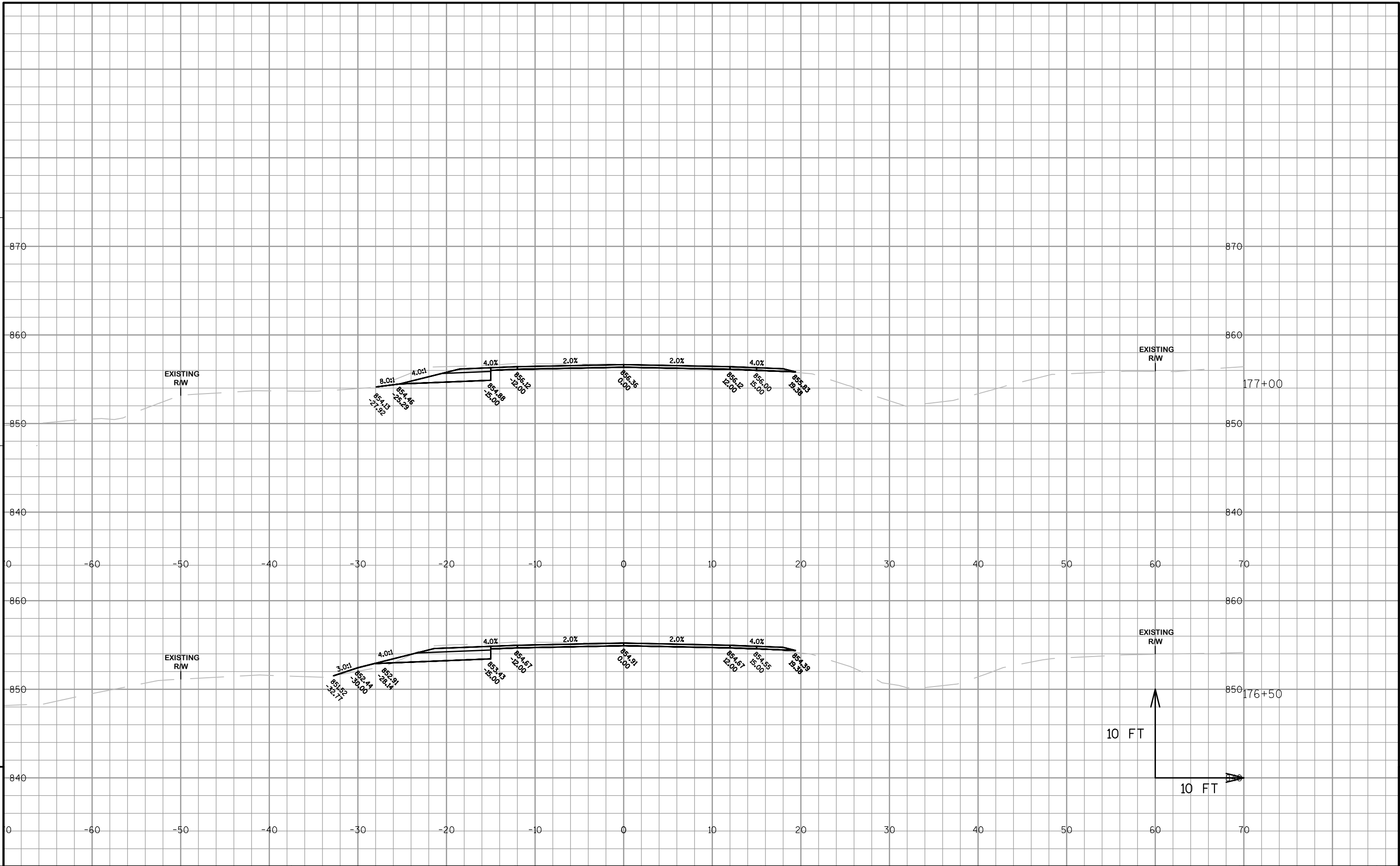


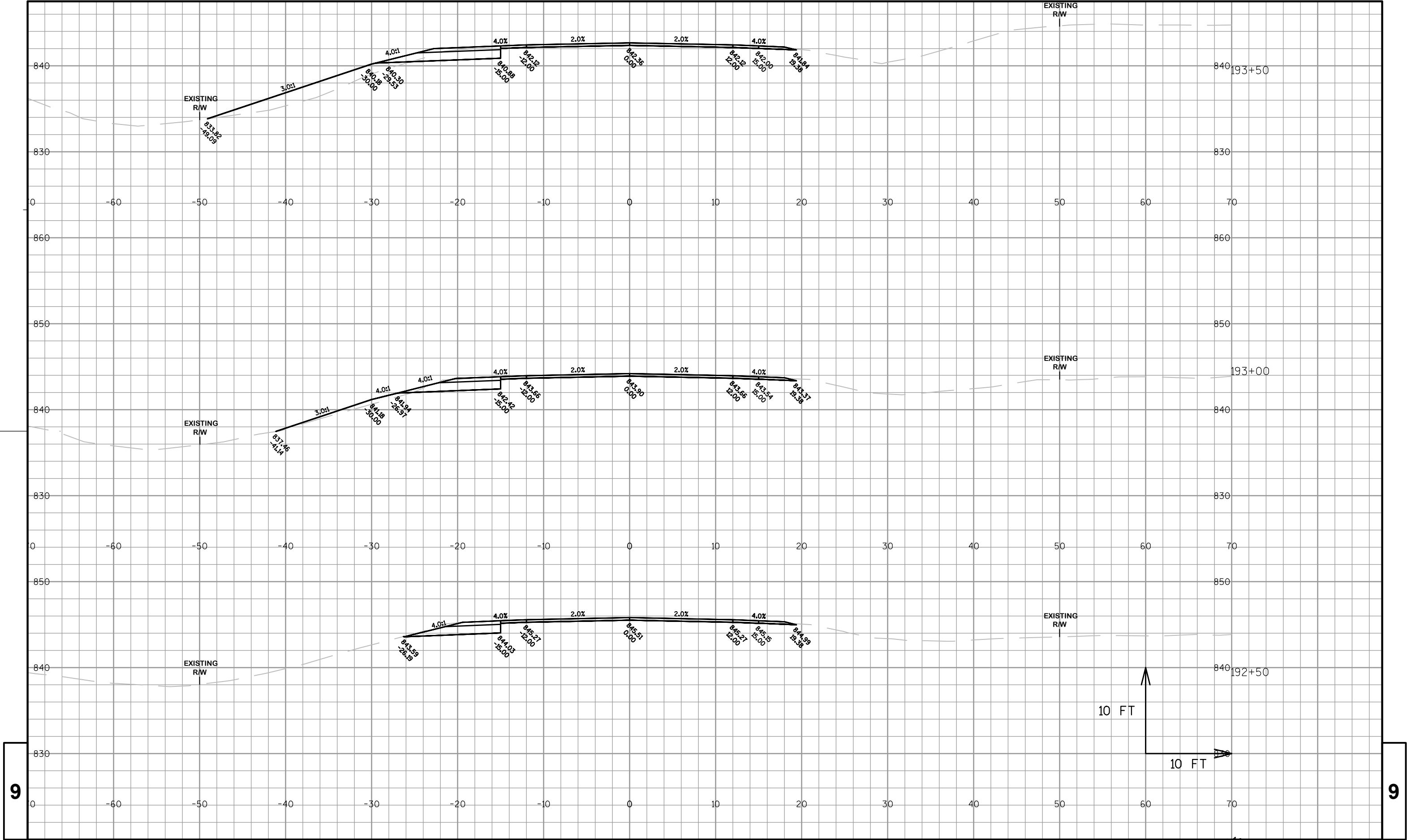


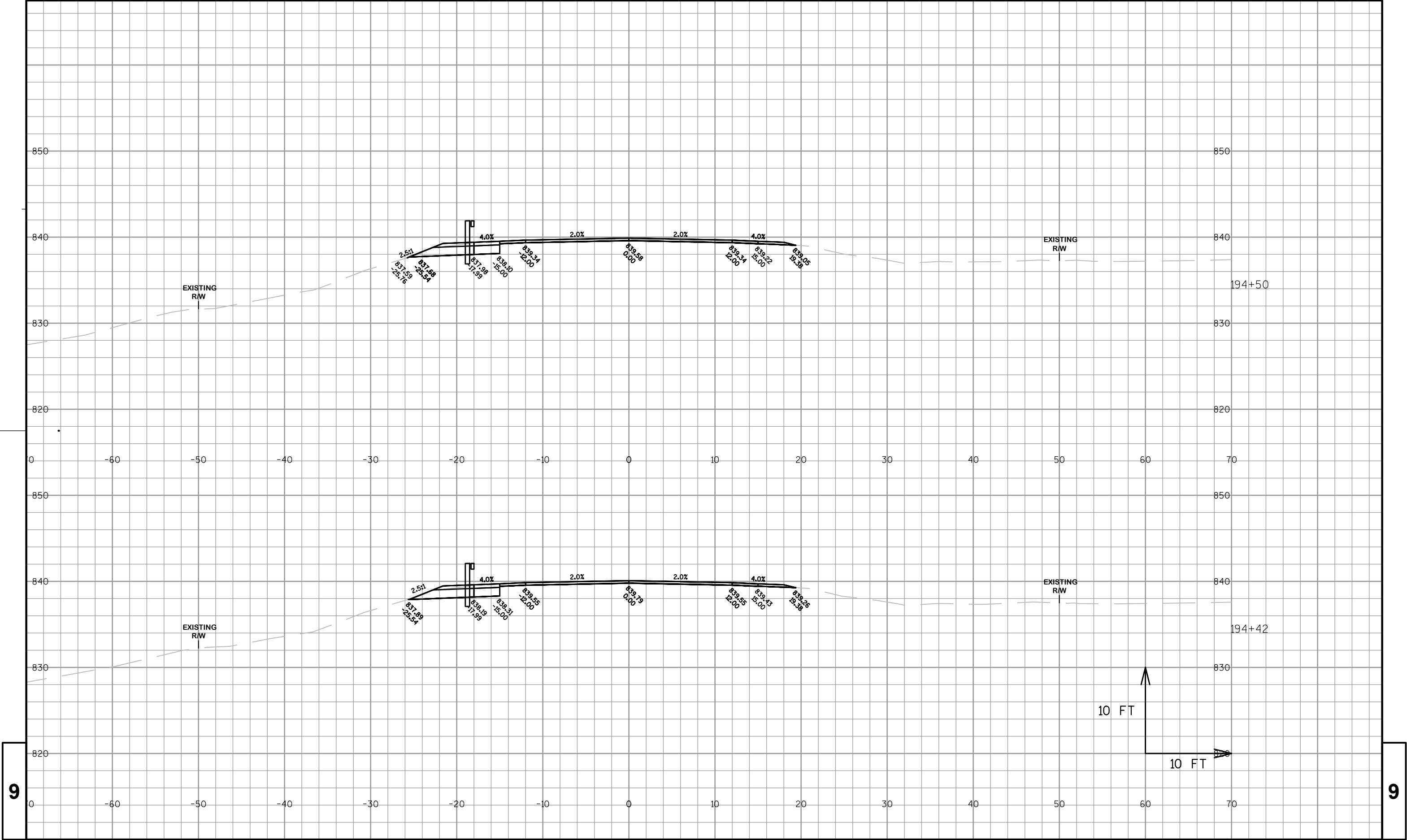












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PROJECT NO: 7505-00-71

HWY: STH 121

COUNTY: TREMPLEAU

CROSS SECTIONS: BEAM GUARD WIDENINGS

SHEET

E

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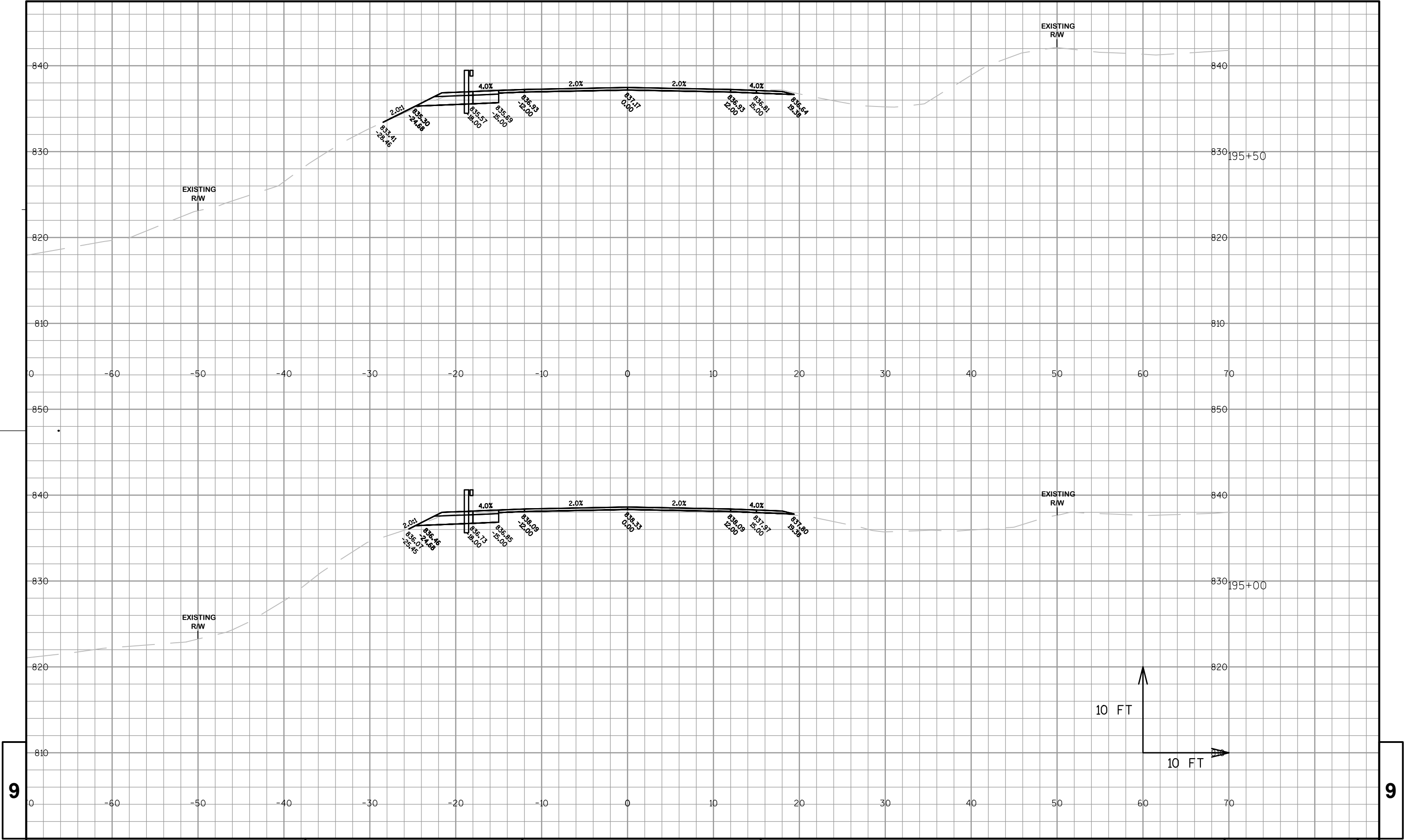
PLOT DATE : 1/29/2014 9:08 AM

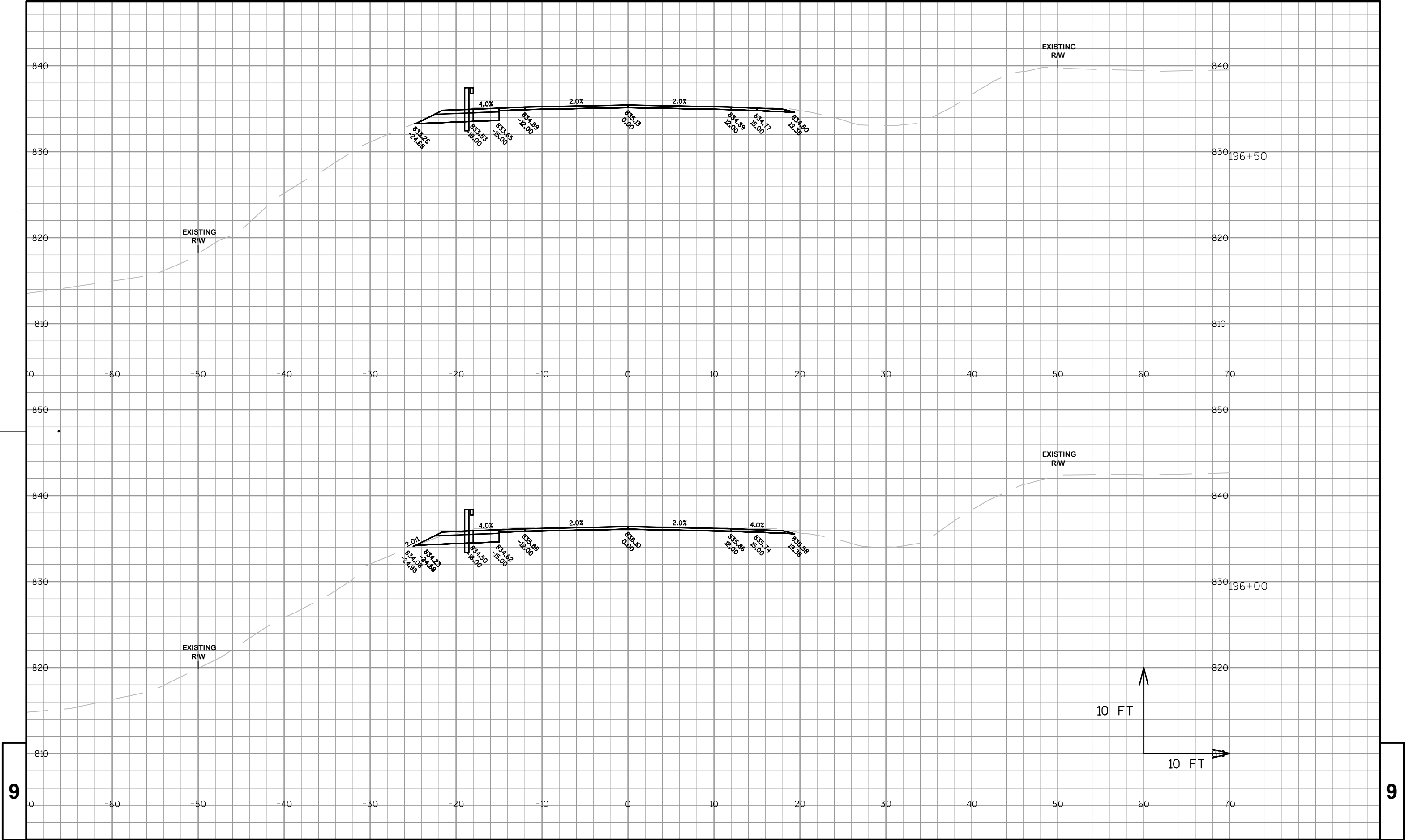
PLOT BY : PHIL SAEGER

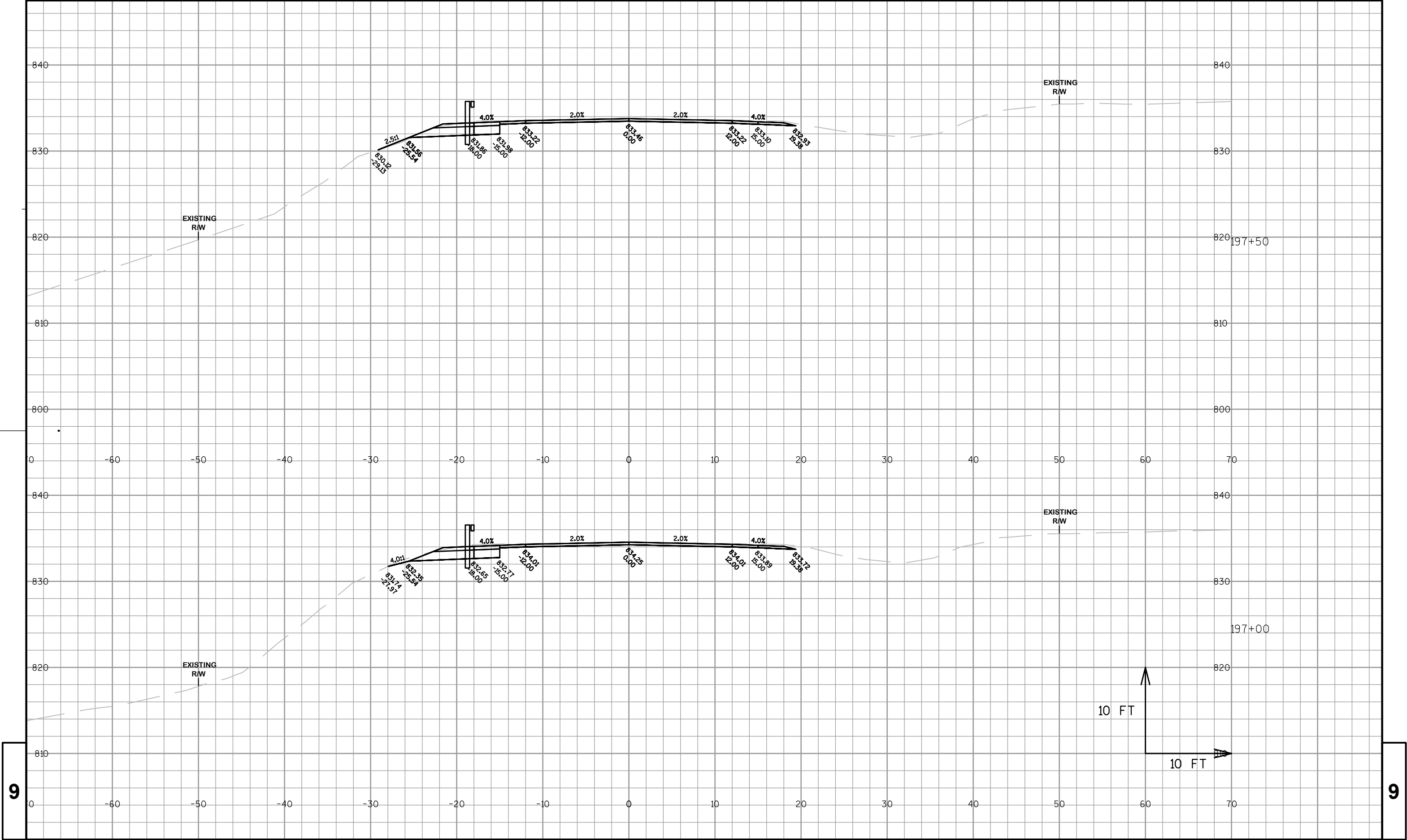
PLOT NAME :

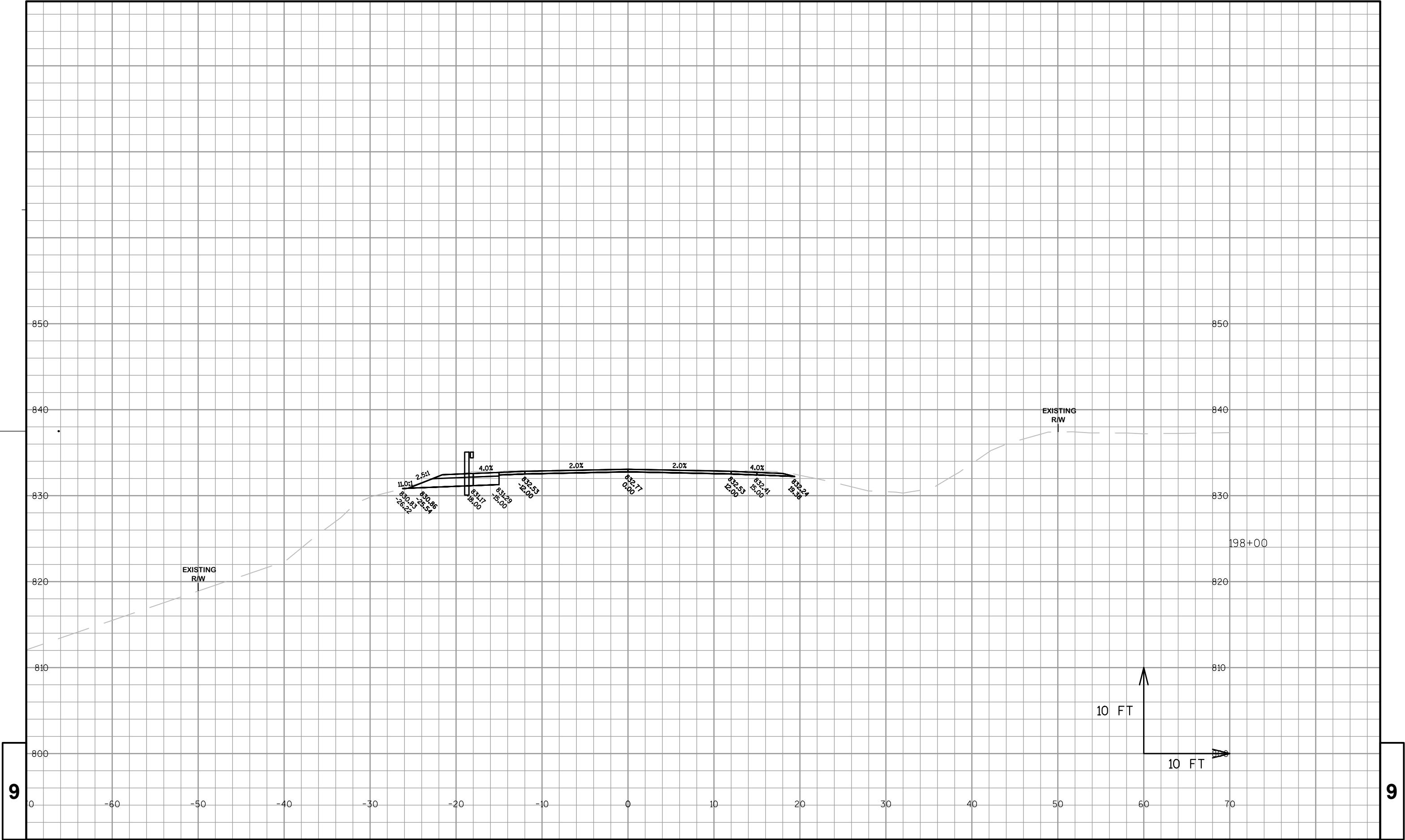
PLOT SCALE : 1" = 10' XREF

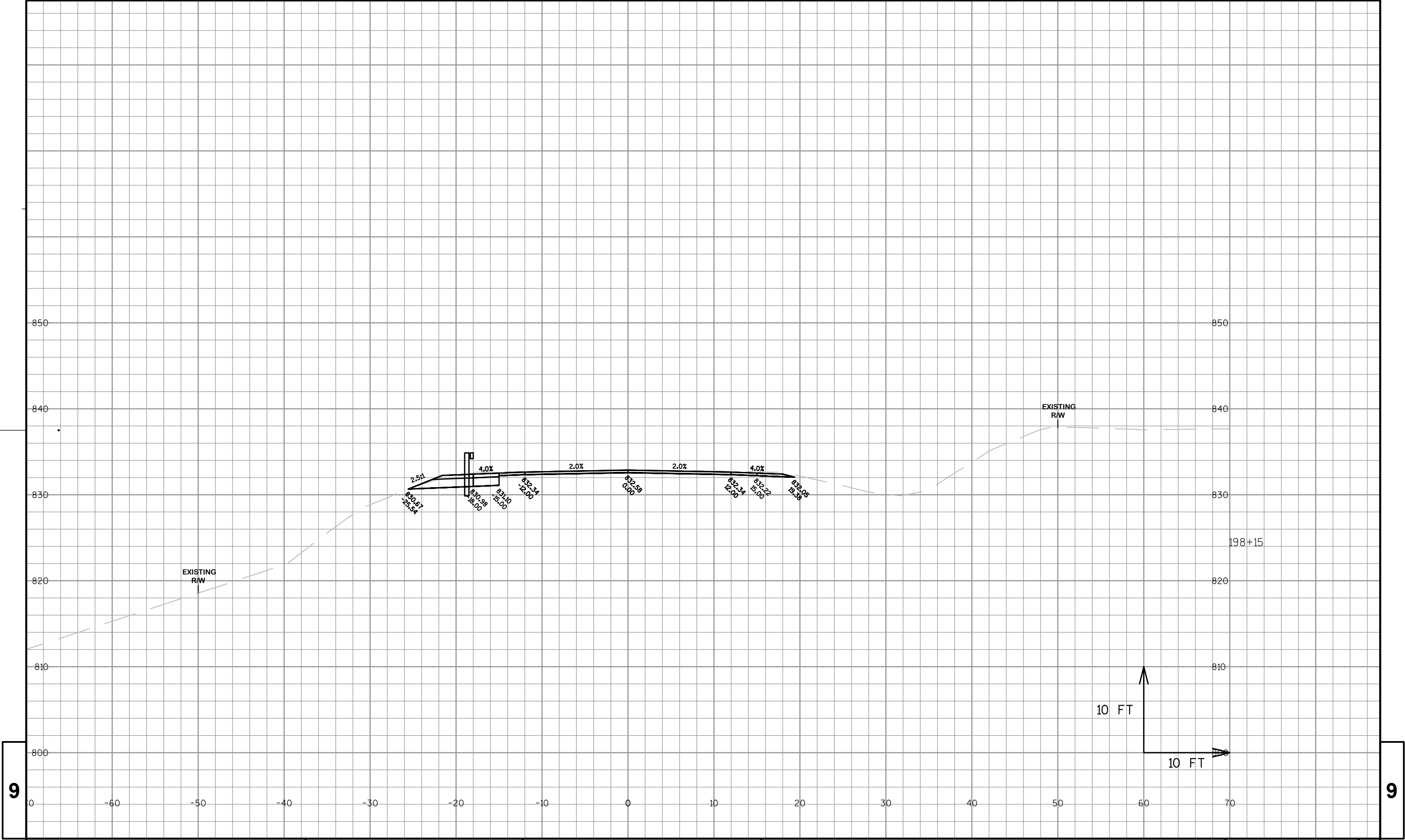
WISDOT/CADDs SHEET 49

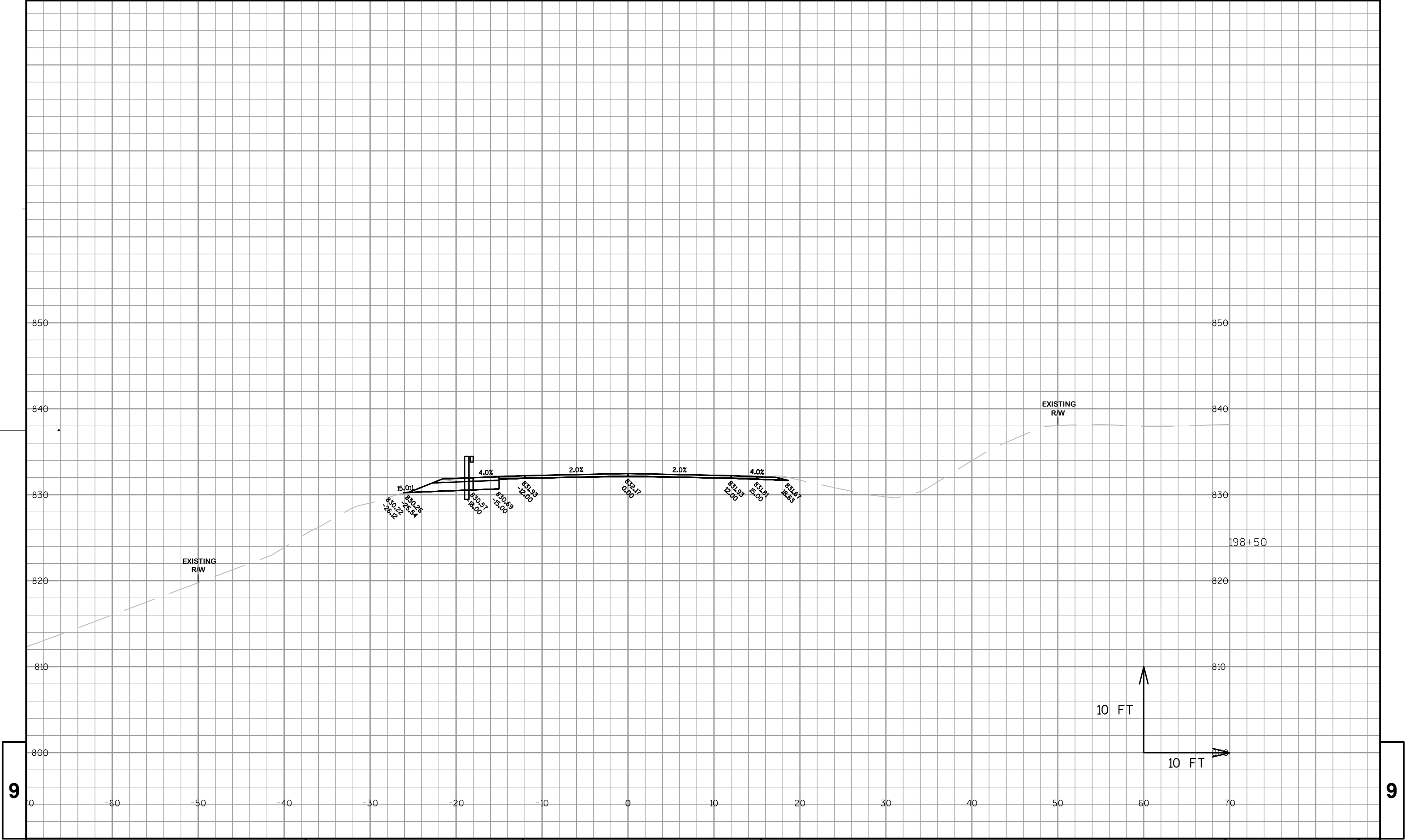












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PROJECT NO: 7505-00-71

HWY: STH 121

COUNTY: TREMPLEAU

CROSS SECTIONS: BEAM GUARD WIDENINGS

SHEET

E

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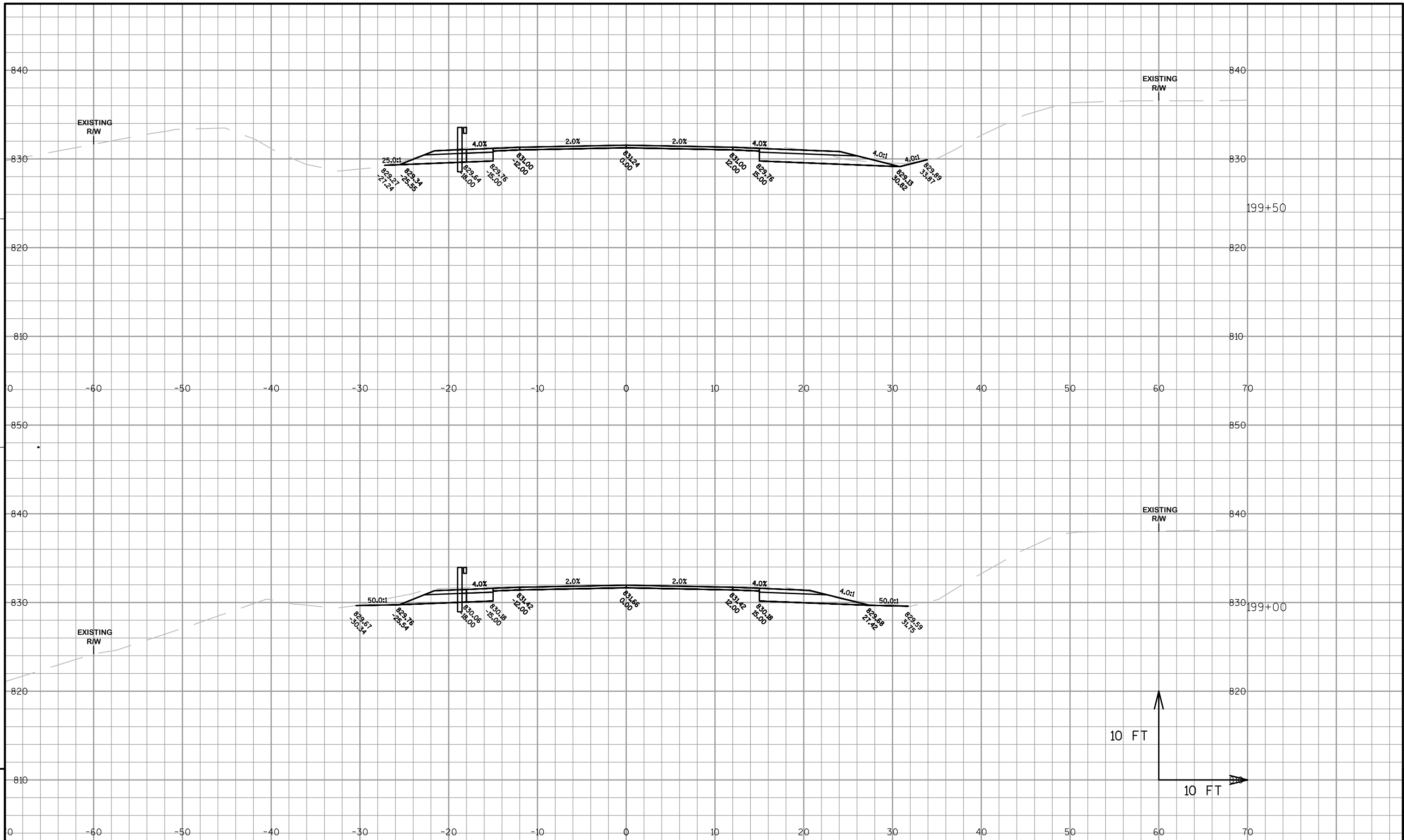
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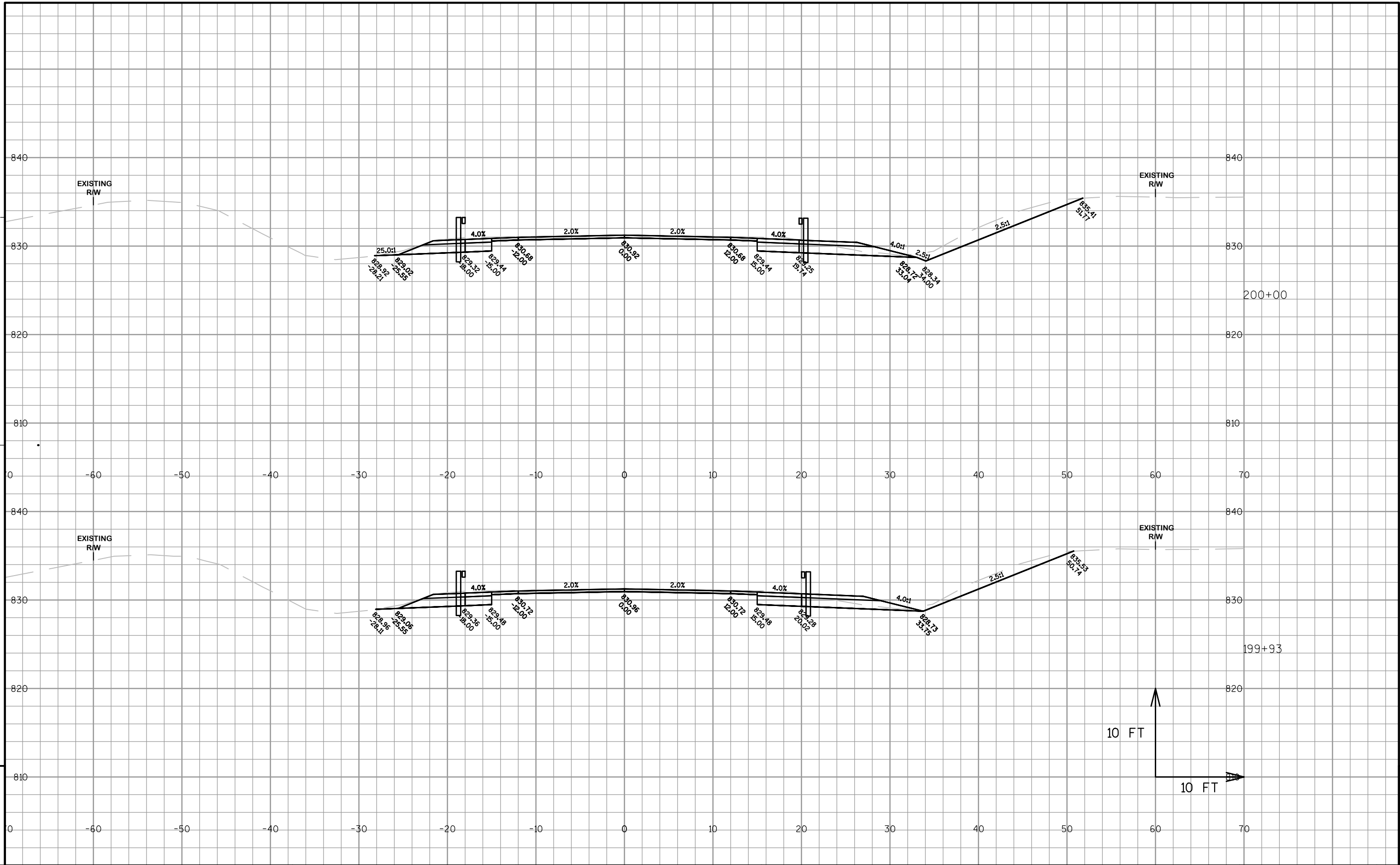
PLOT BY : PHIL SAEGER

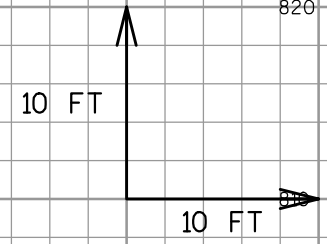
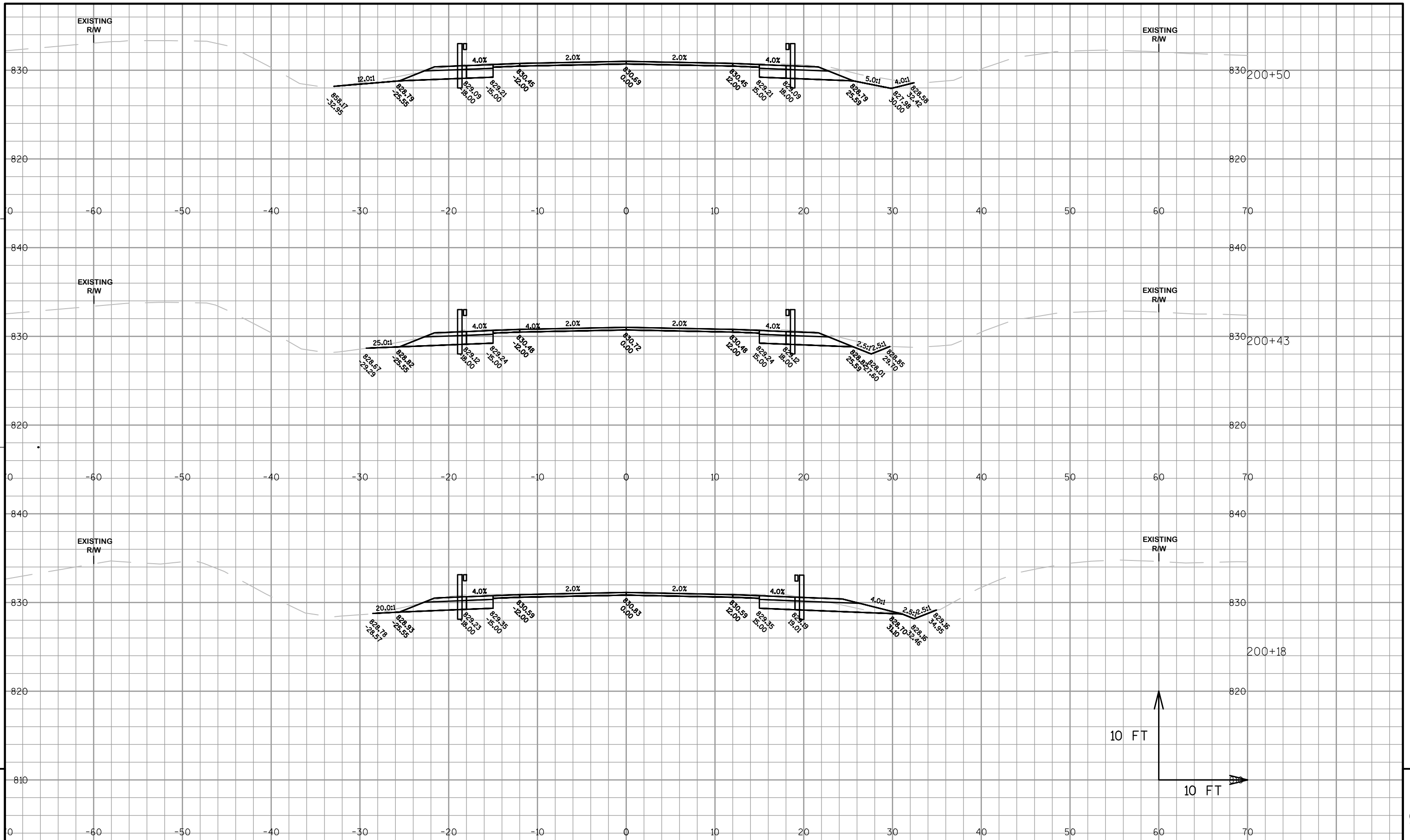
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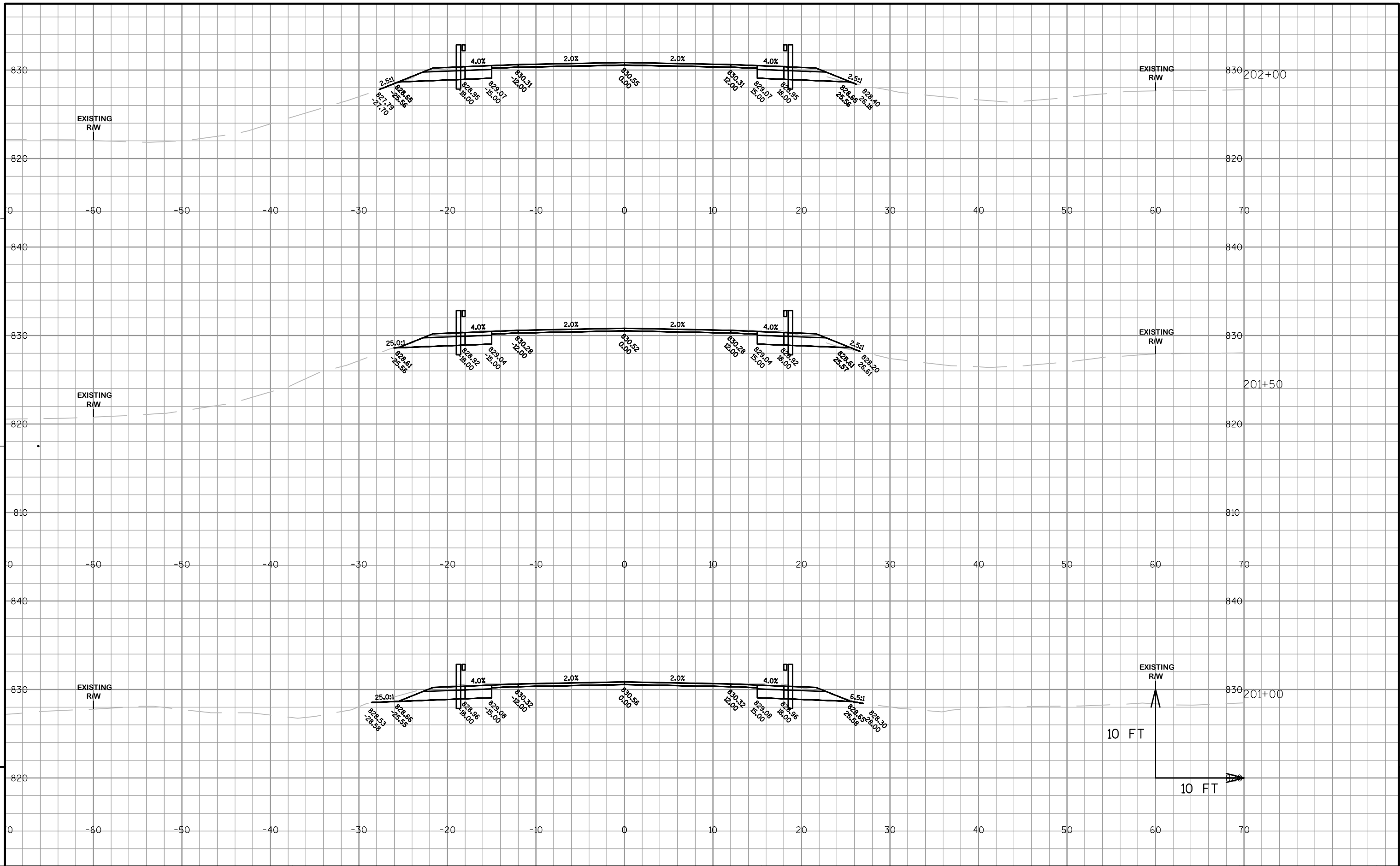
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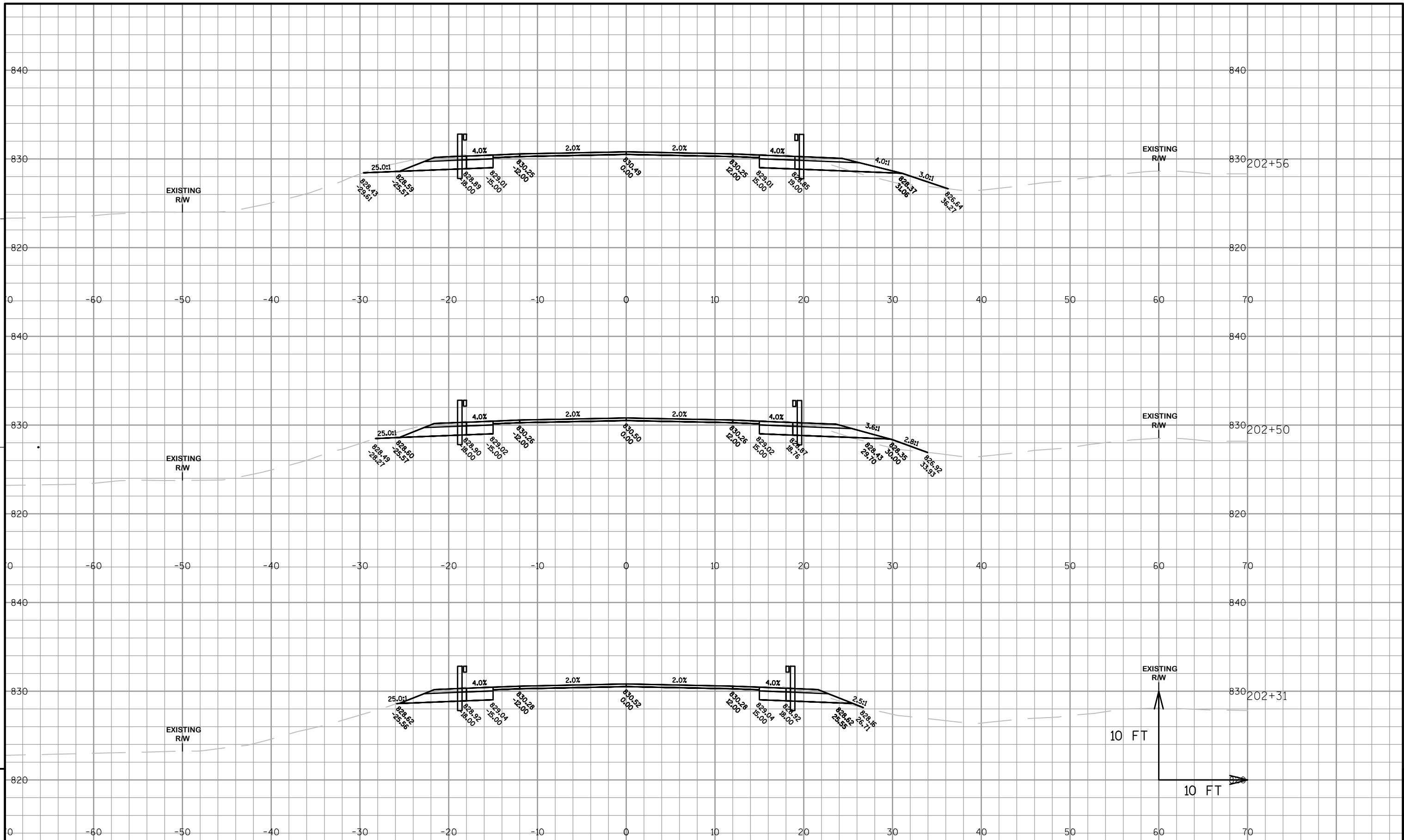
WISDOT/CADDs SHEET 49

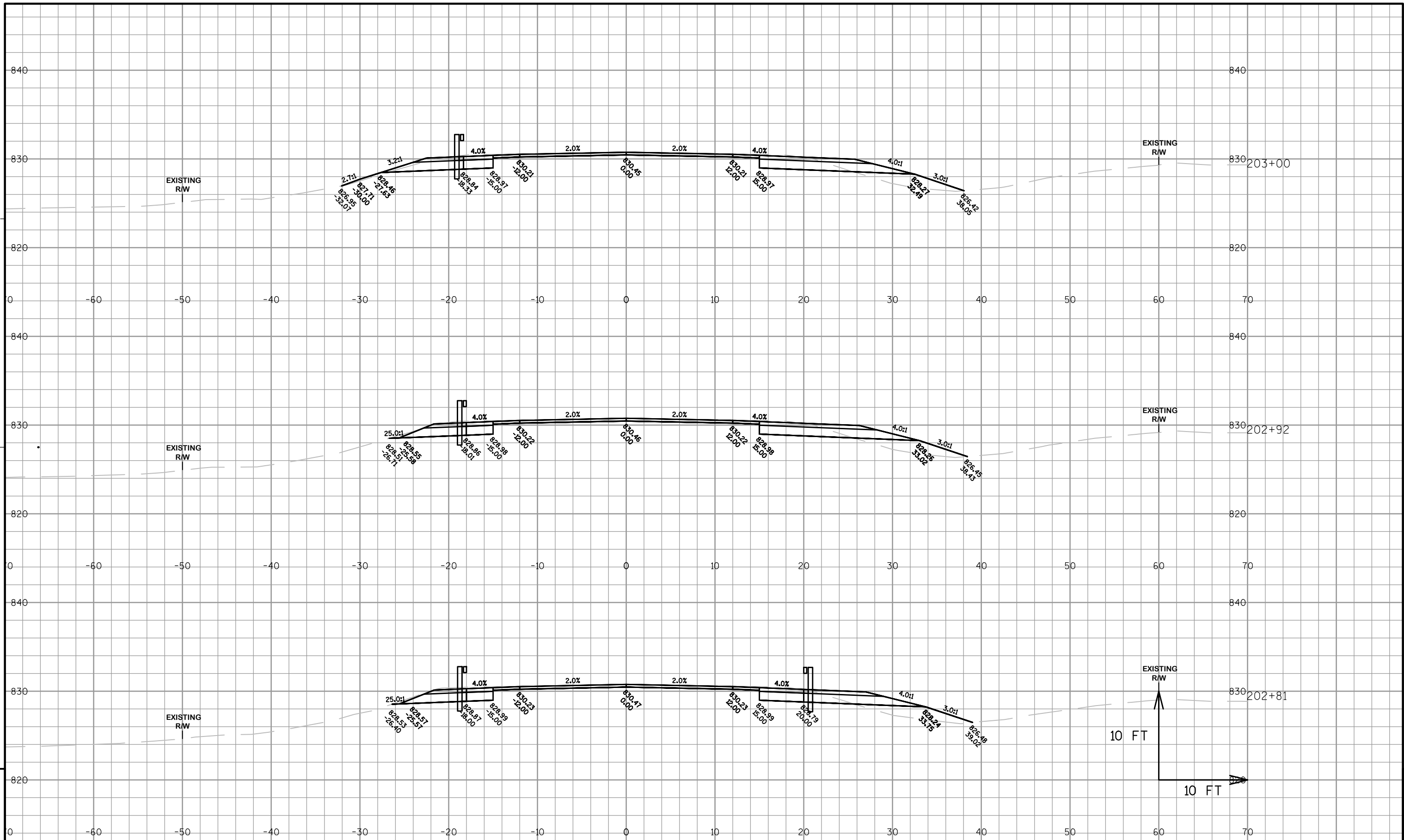


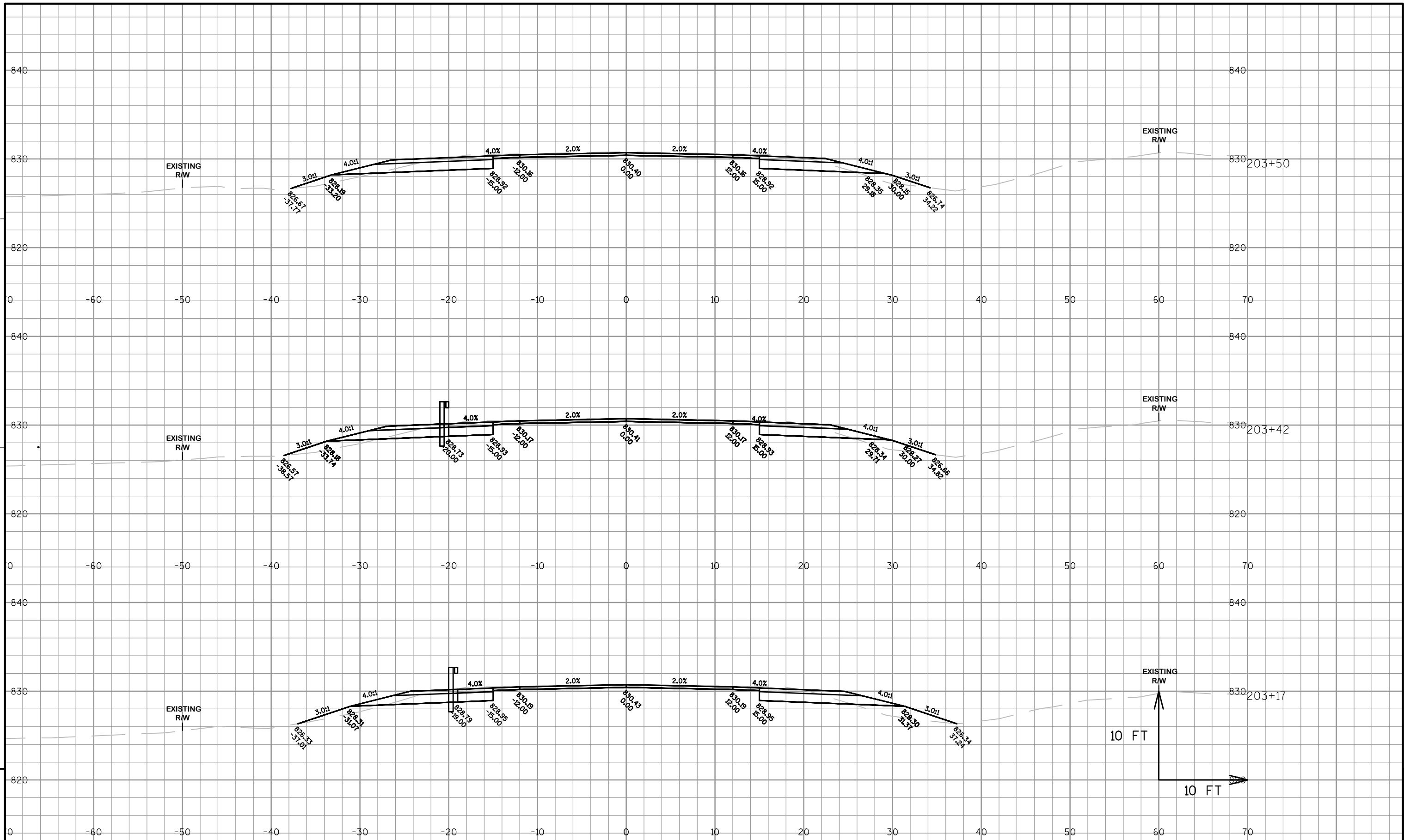


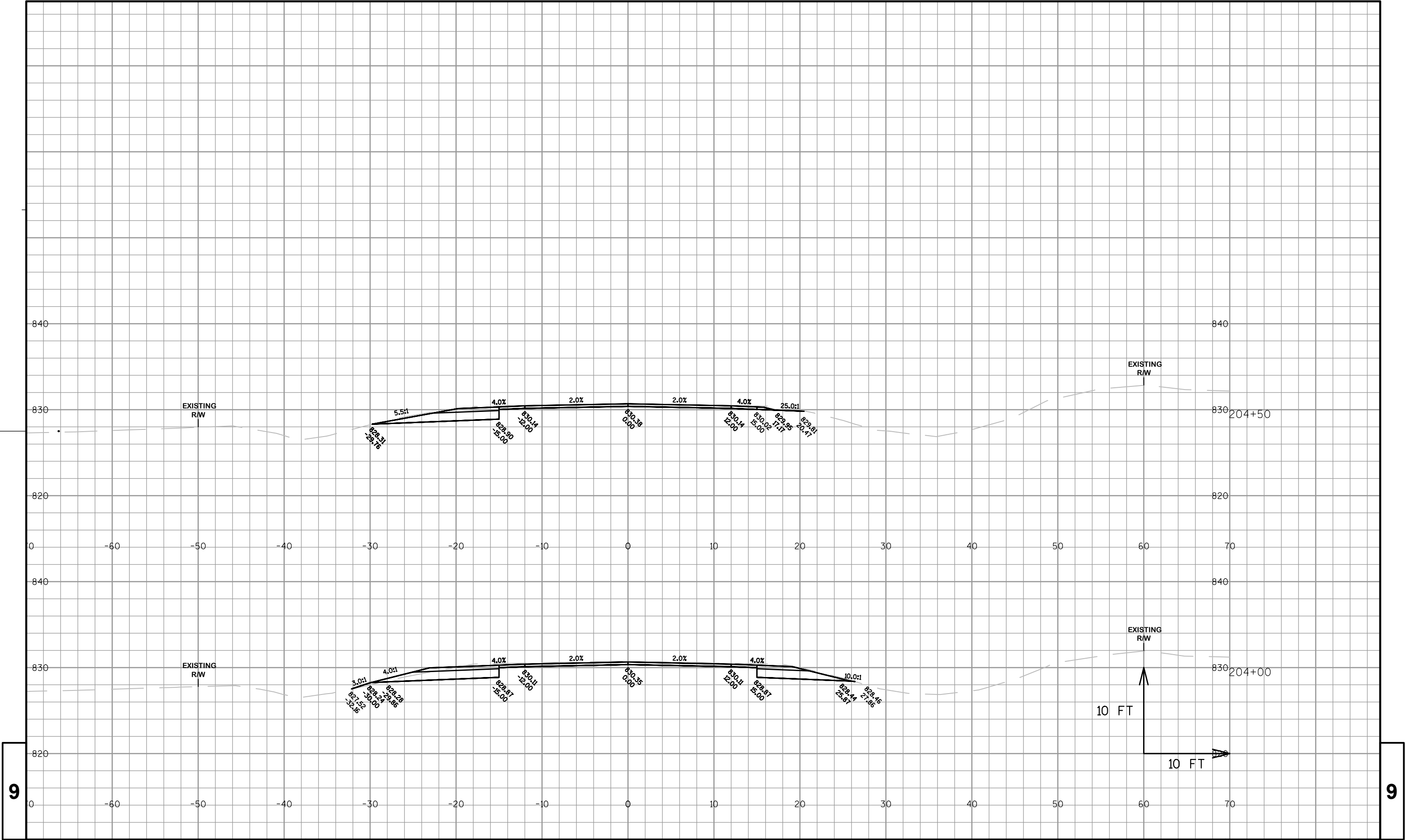


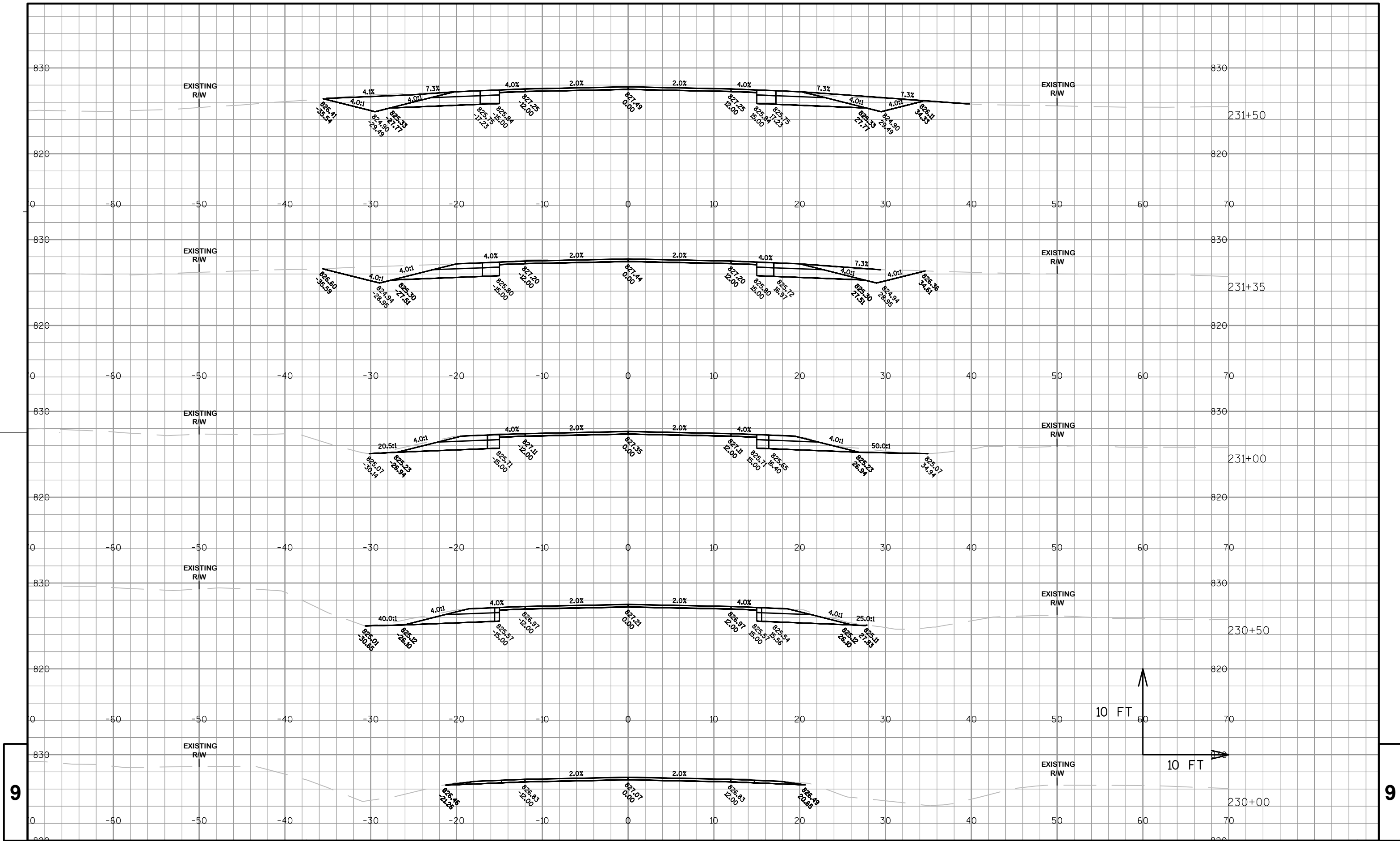


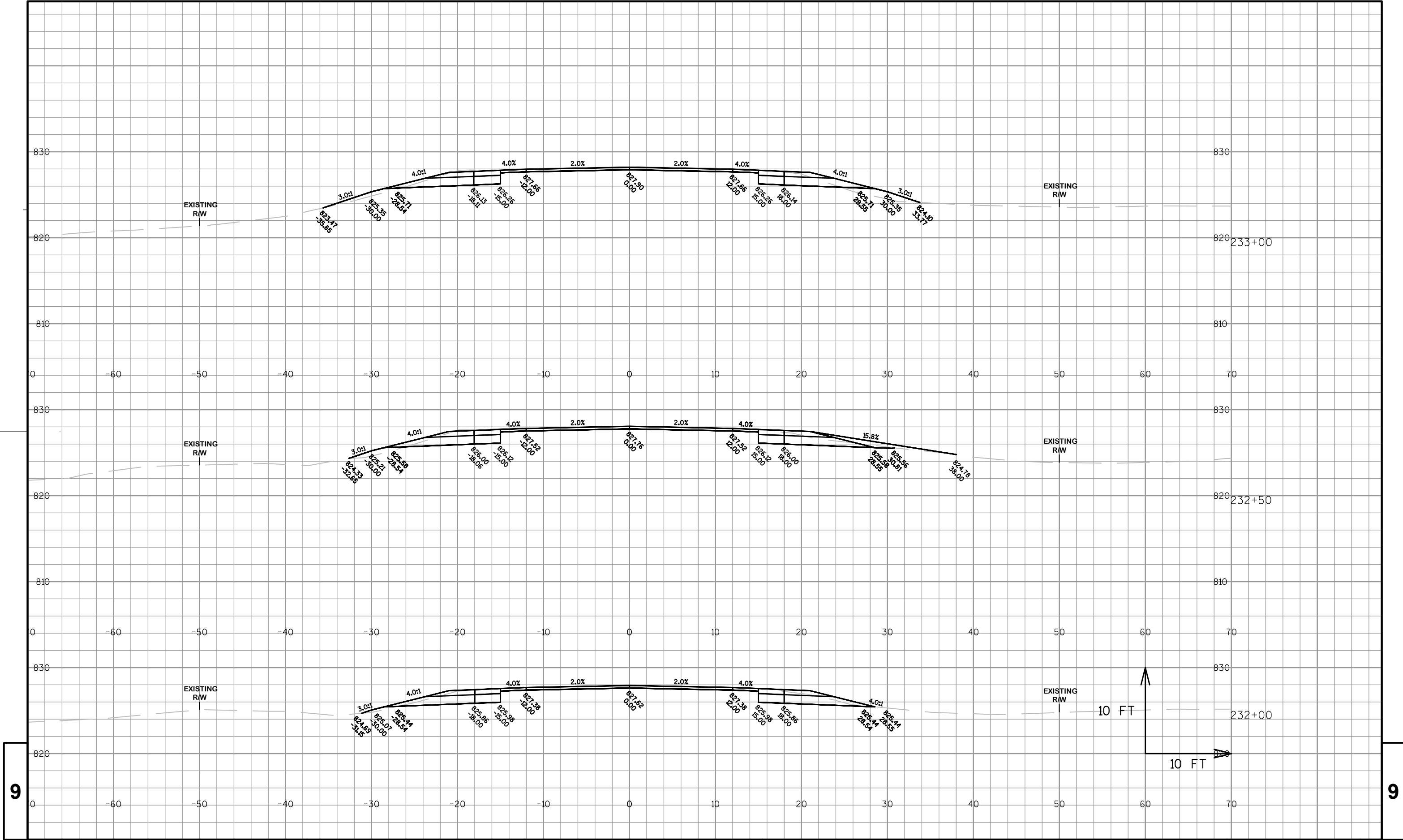


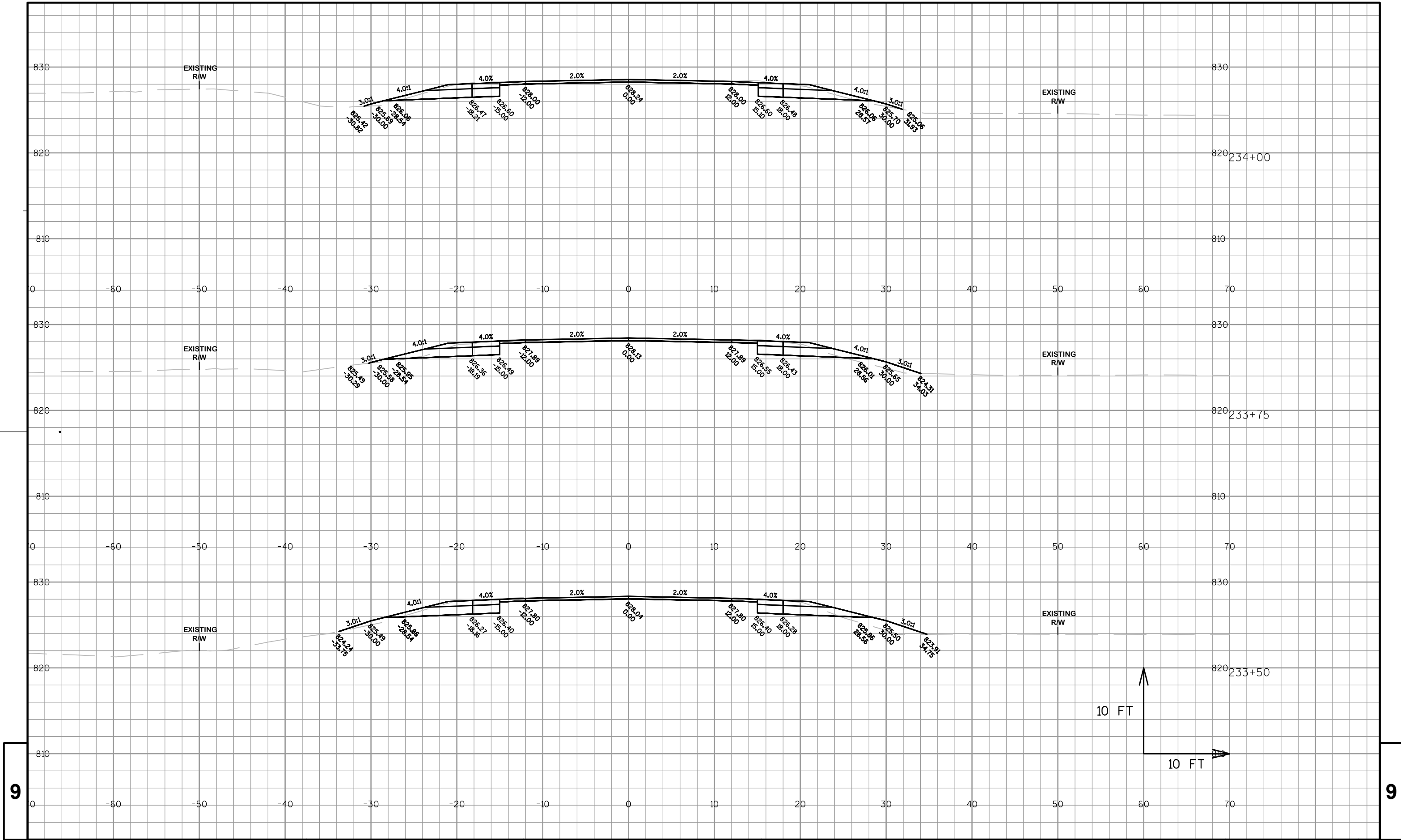


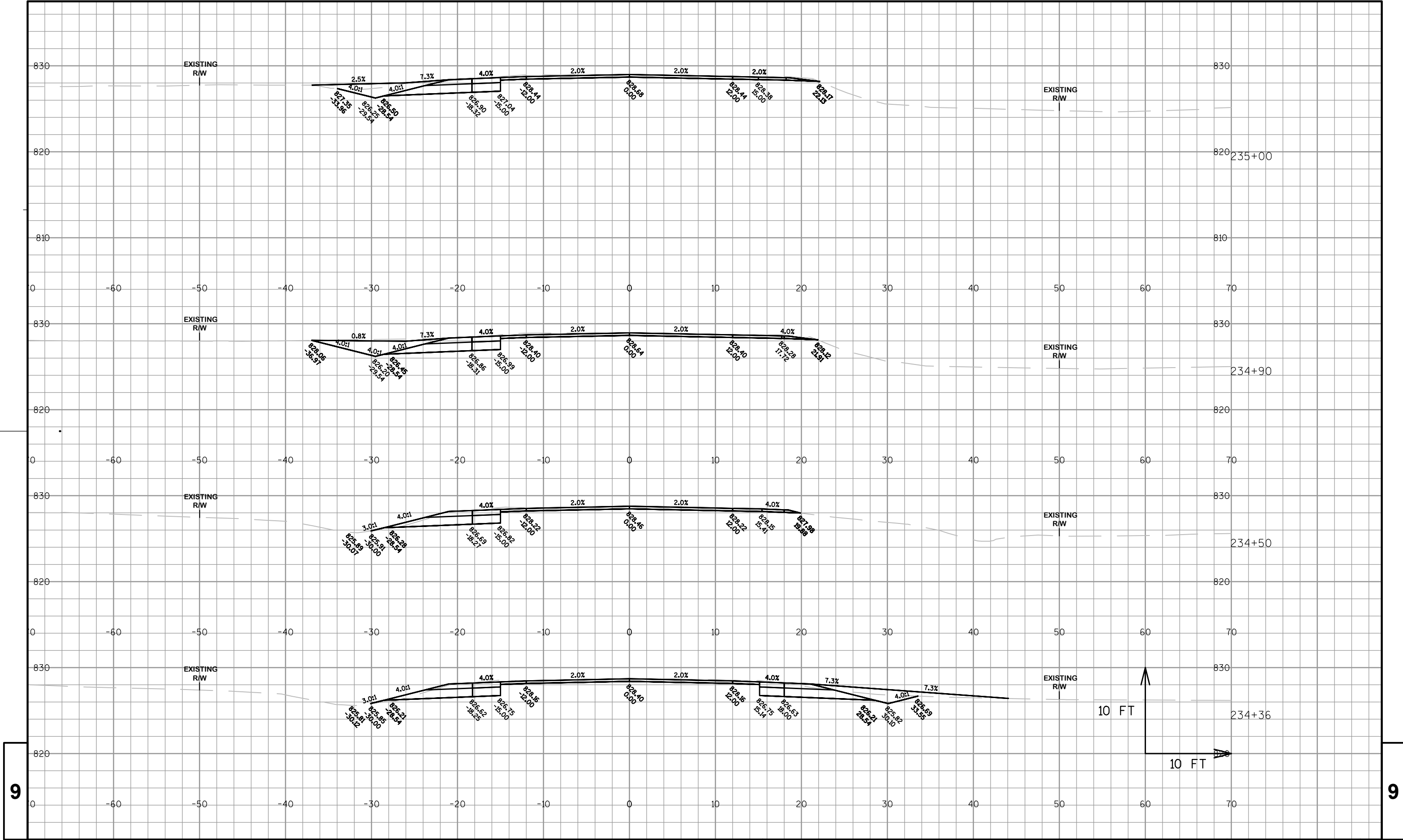


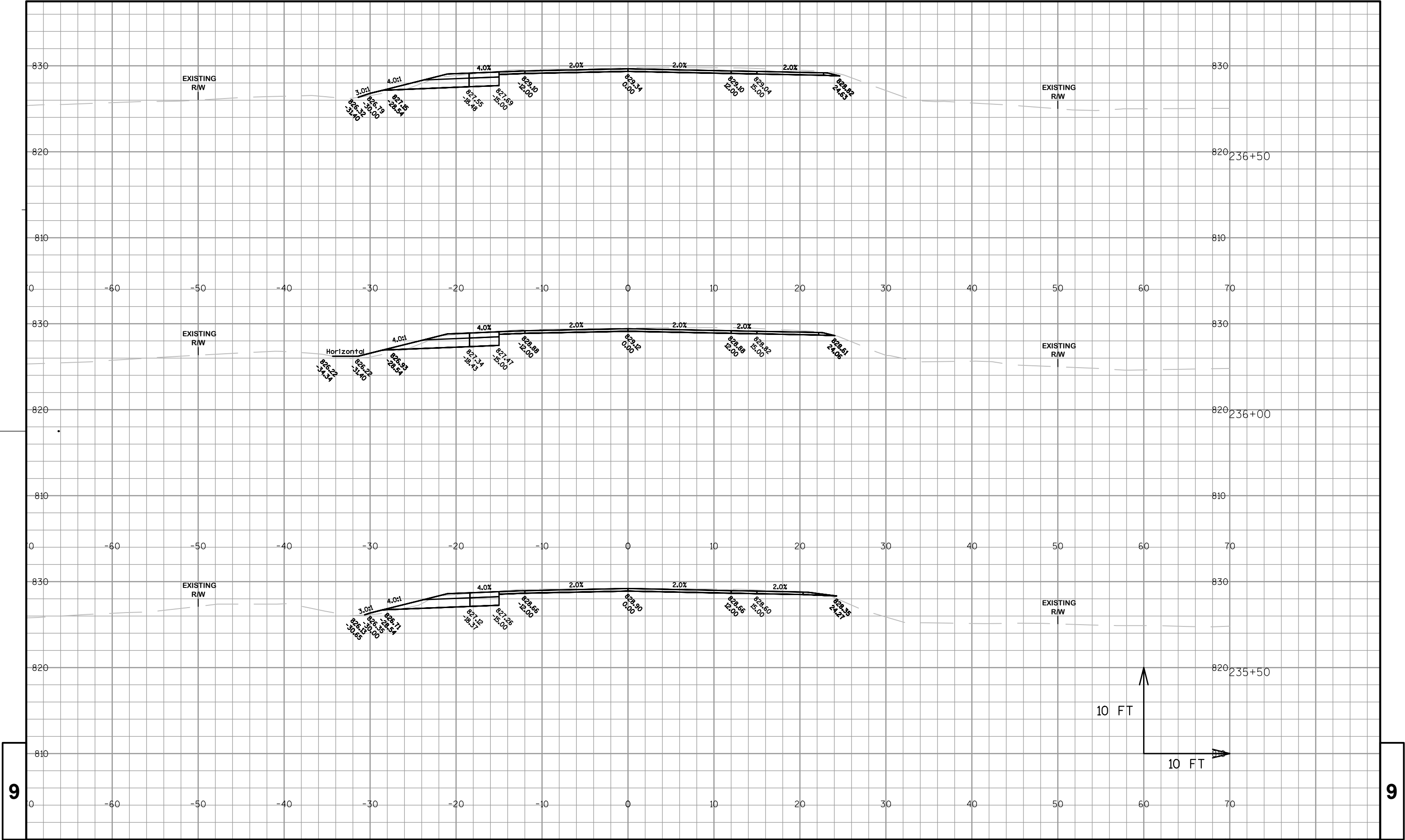


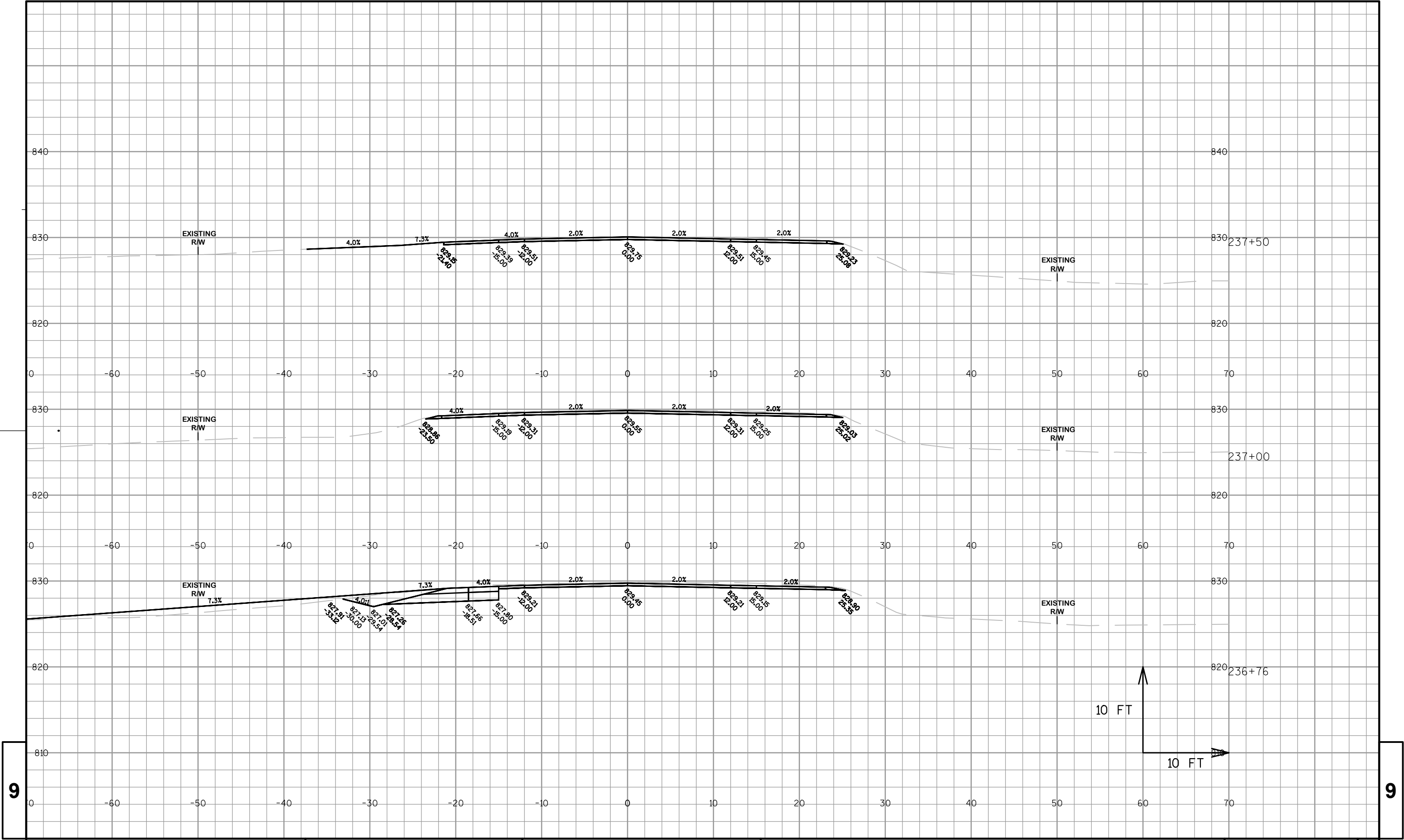


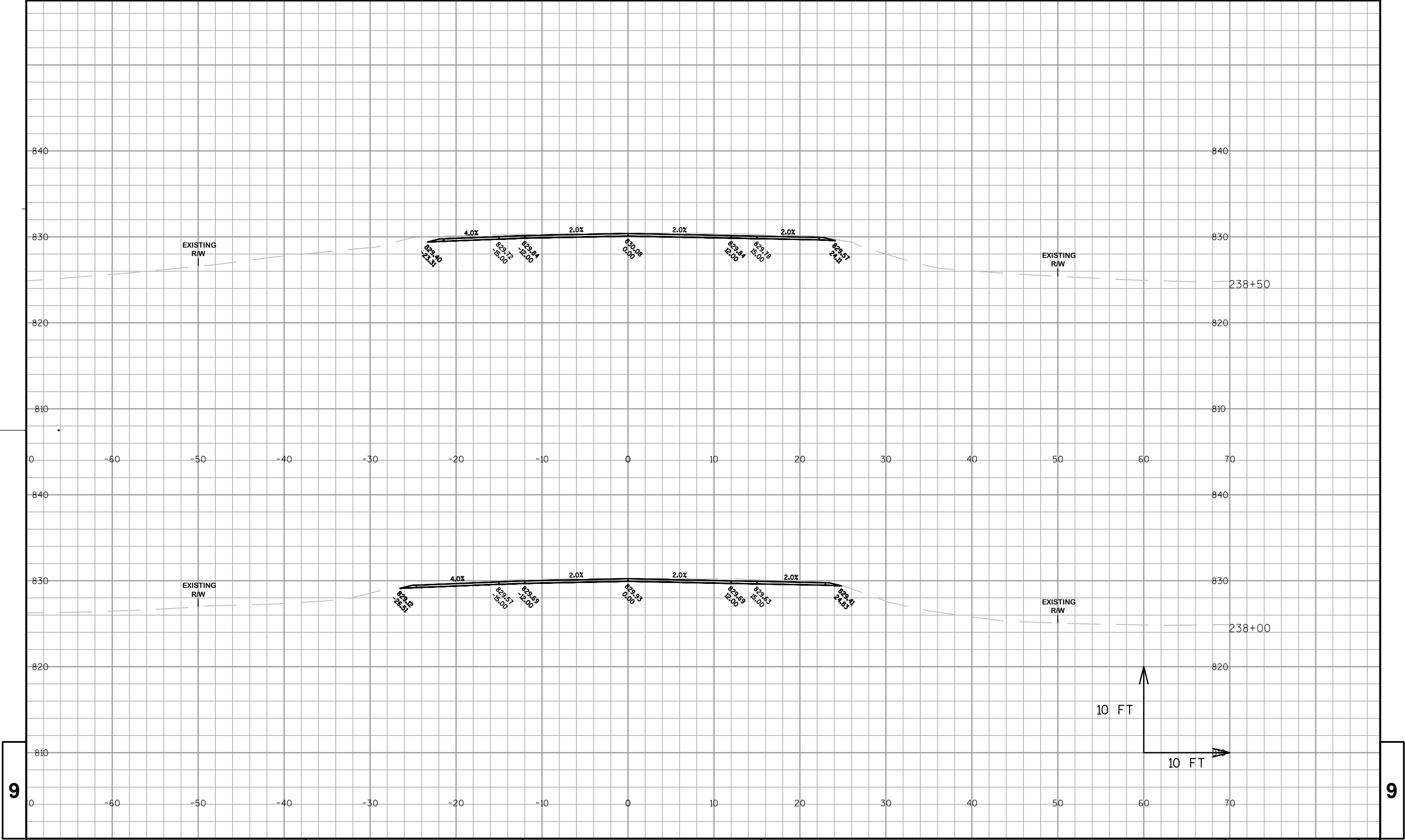


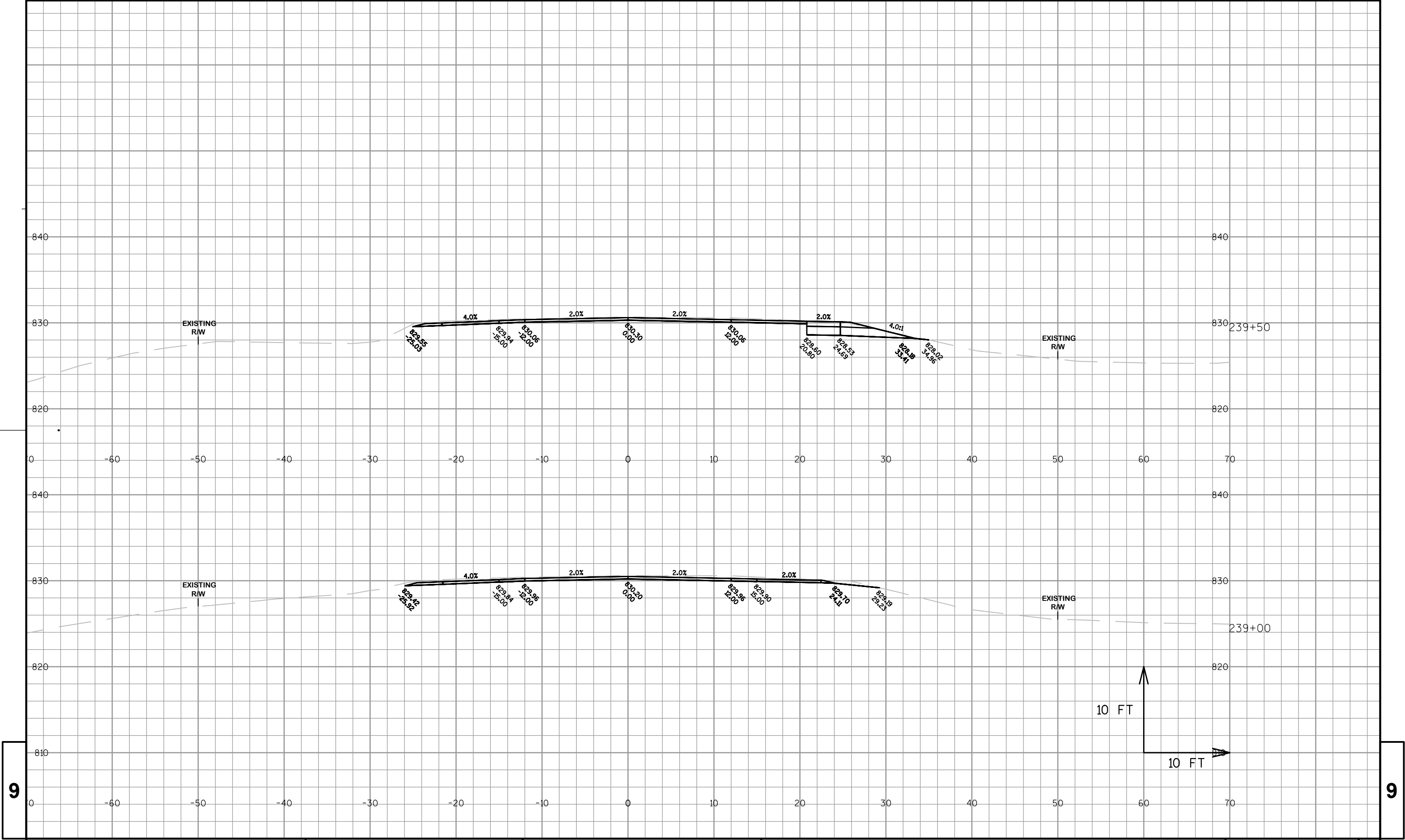


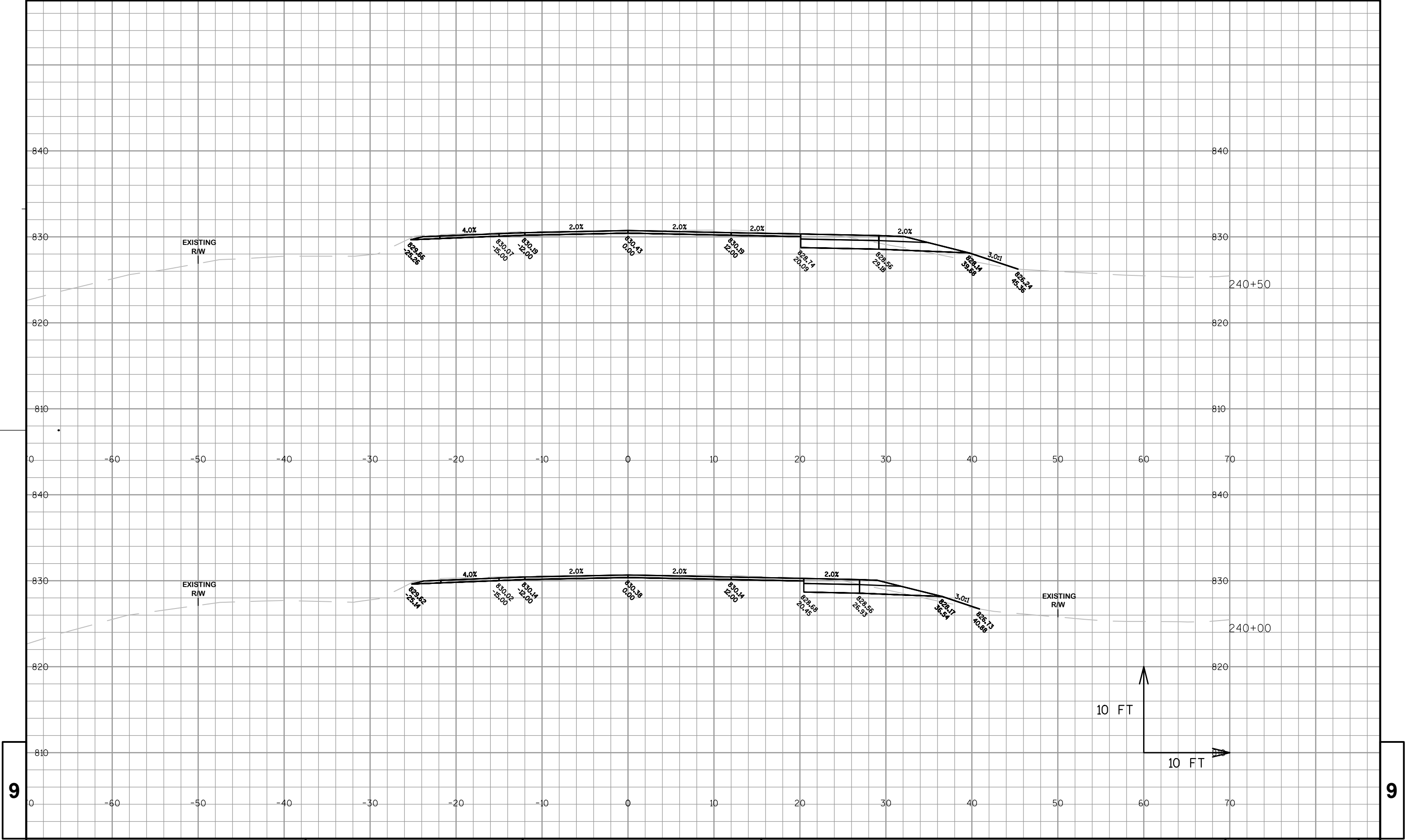












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PROJECT NO: 7505-00-71

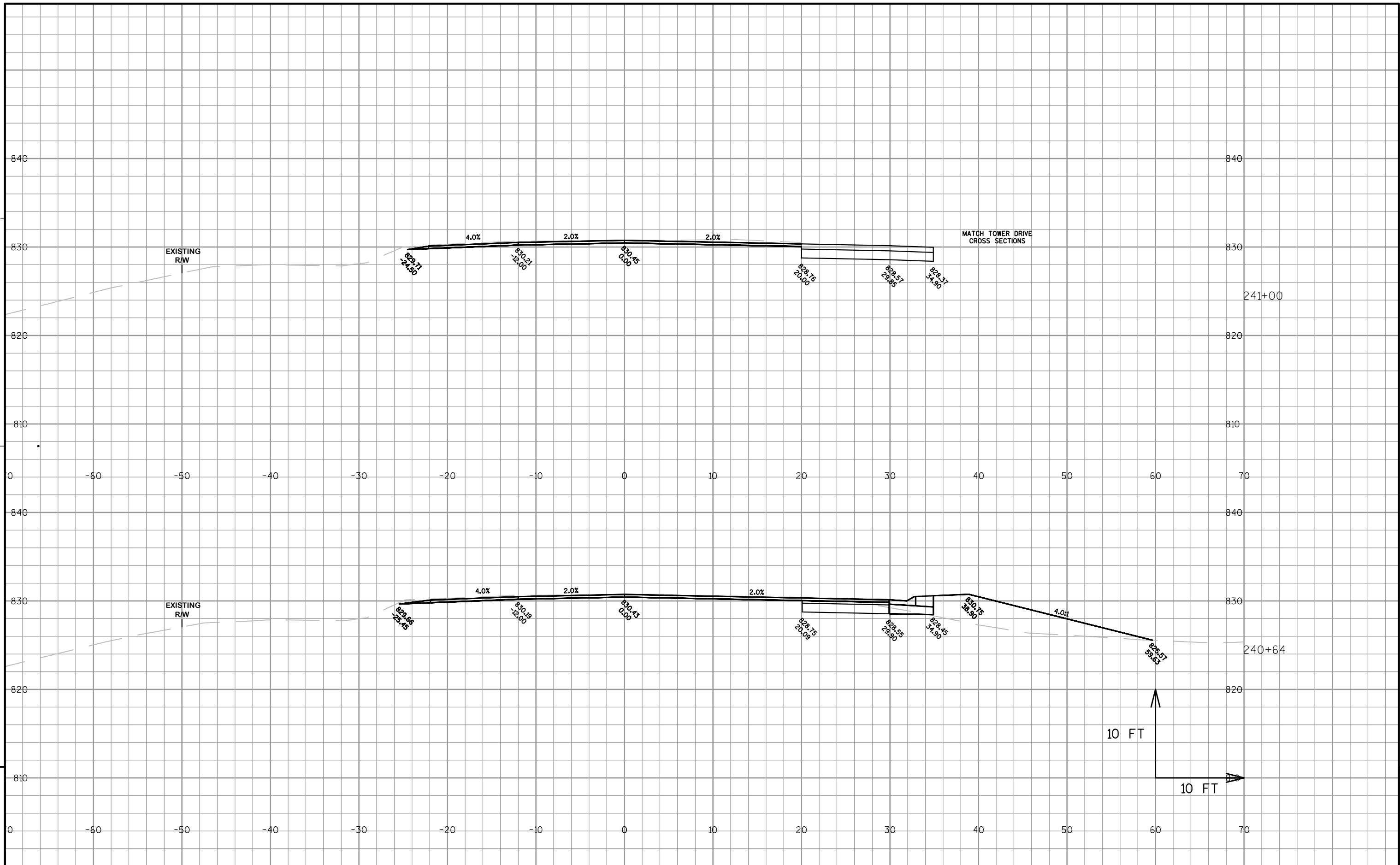
HWY: STH 121

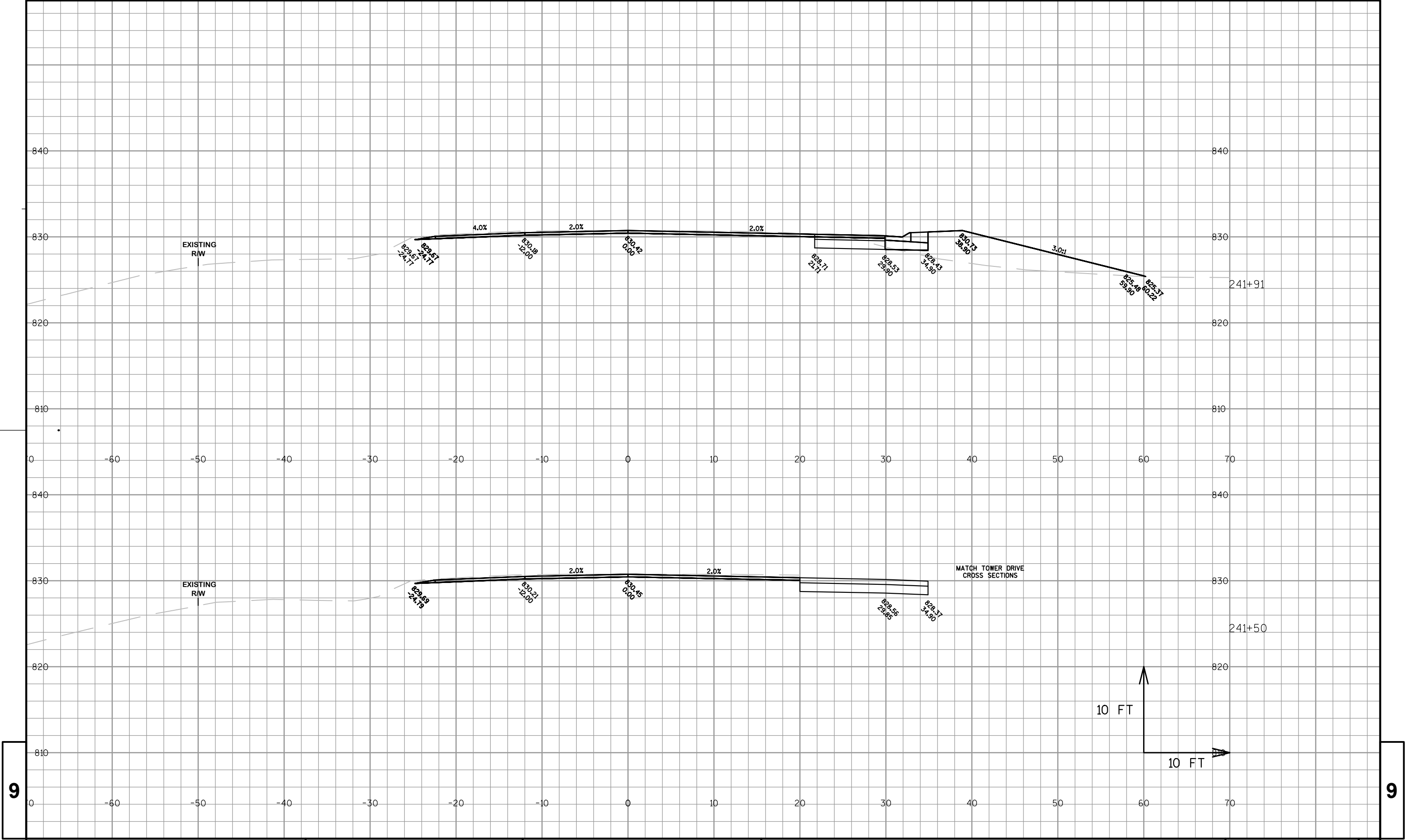
COUNTY: TREMPLEAU

CROSS SECTIONS: TURN LANE WIDENING

SHEET

E





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PROJECT NO: 7505-00-71

HWY: STH 121

COUNTY: TREMPLEAU

CROSS SECTIONS: TURN LANE WIDENING

SHEET

E

FILE NAME : P:\90S\93\00093136\CADD\CIVIL\DESIGN\CORRIDORS\STH 121\CORRIDOR_A6 - PREL_PLAN_111213.DWG

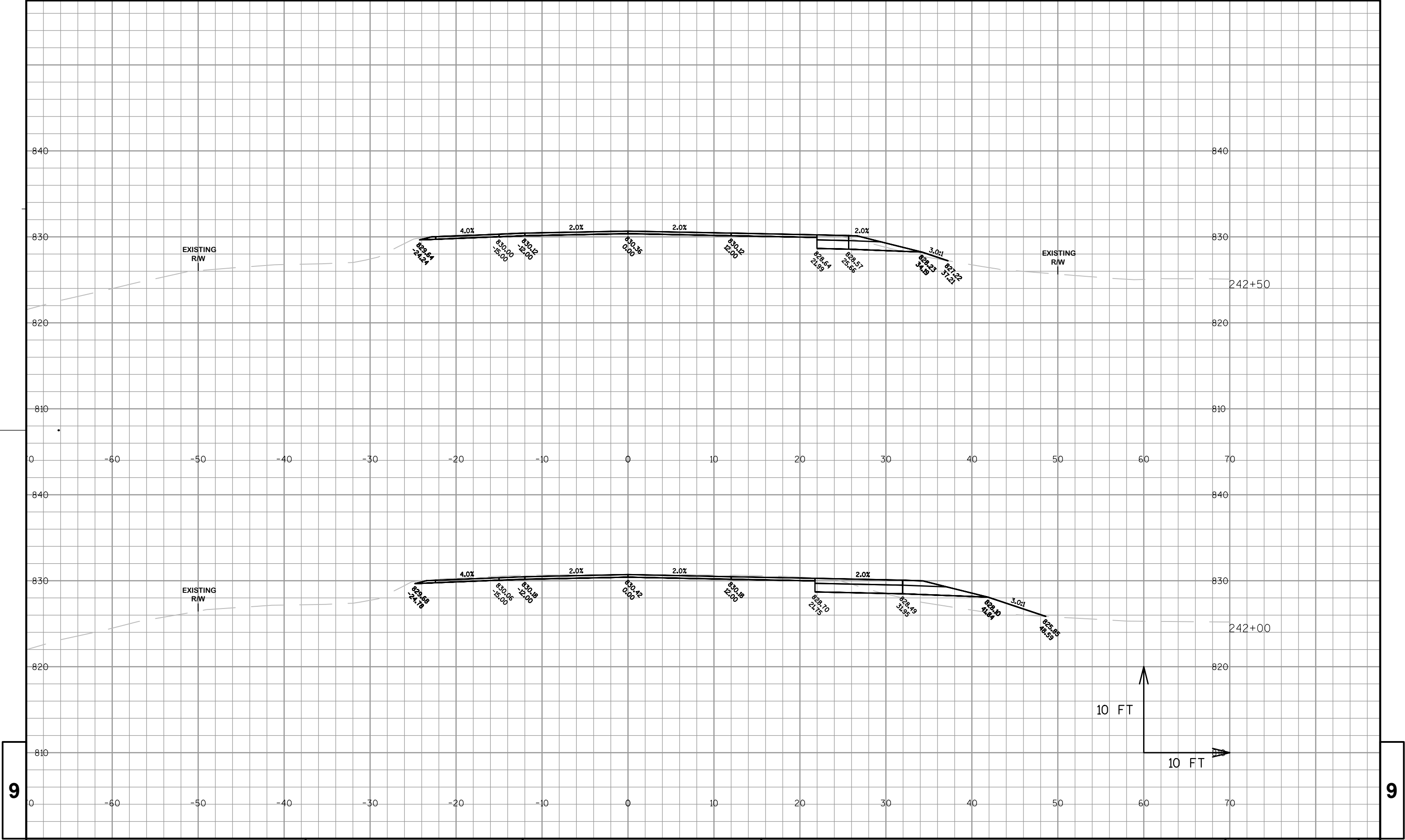
PLOT DATE : 1/30/2014 7:53 AM

PLOT BY : PHIL SAEGER

PLOT NAME :

PLOT SCALE : 1 IN:10 FT_XREF

WISDOT/CADDs SHEET 49



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9

PROJECT NO: 7505-00-71

HWY: STH 121

COUNTY: TREMPLEAU

CROSS SECTIONS: TURN LANE WIDENING

SHEET

E

FILE NAME : P:\90S\93\00093136\CADD\CIVIL\DESIGN\CORRIDORS\STH 121\CORRIDOR_A6 - PREL_PLAN_111213.DWG

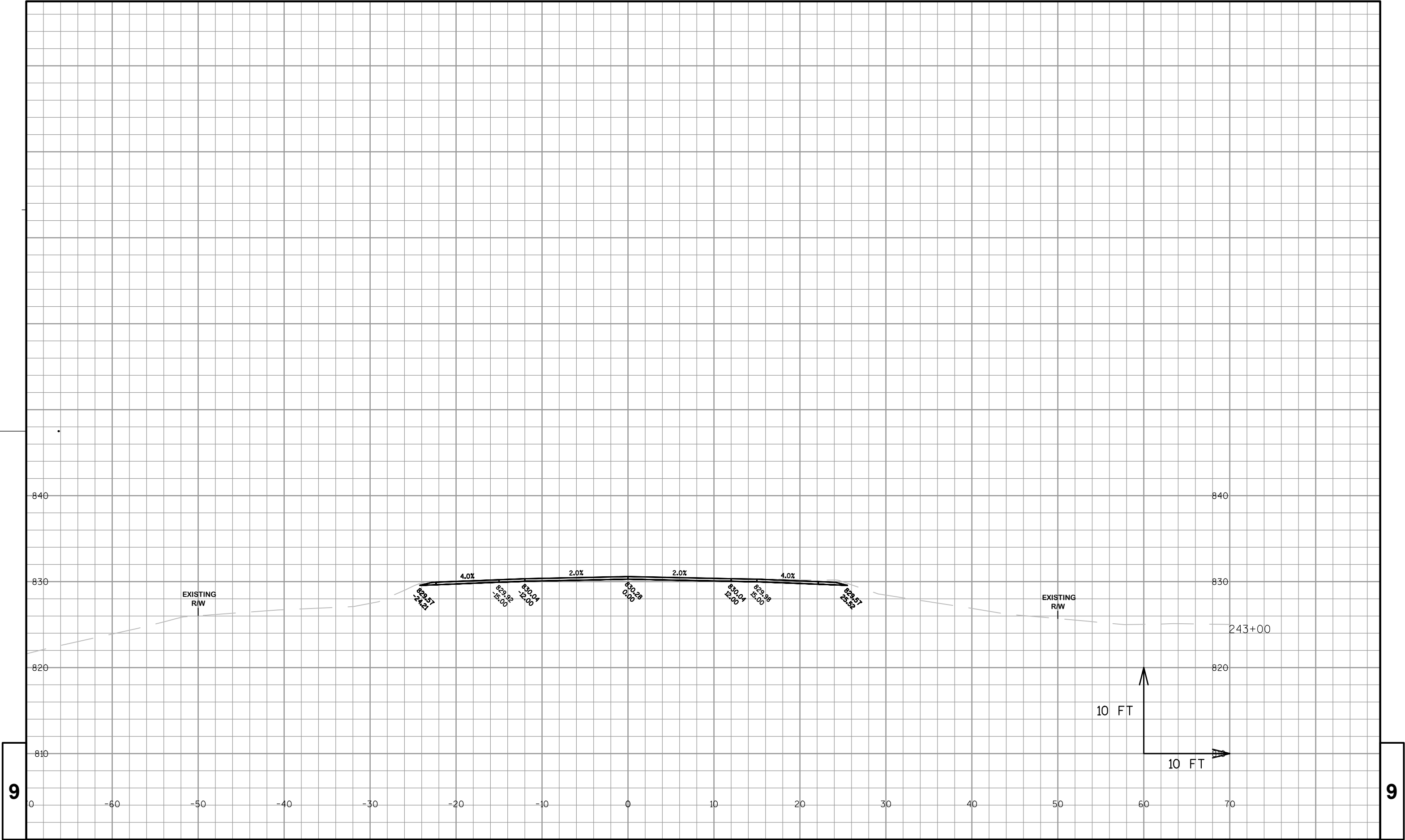
PLOT DATE : 1/30/2014 7:53 AM

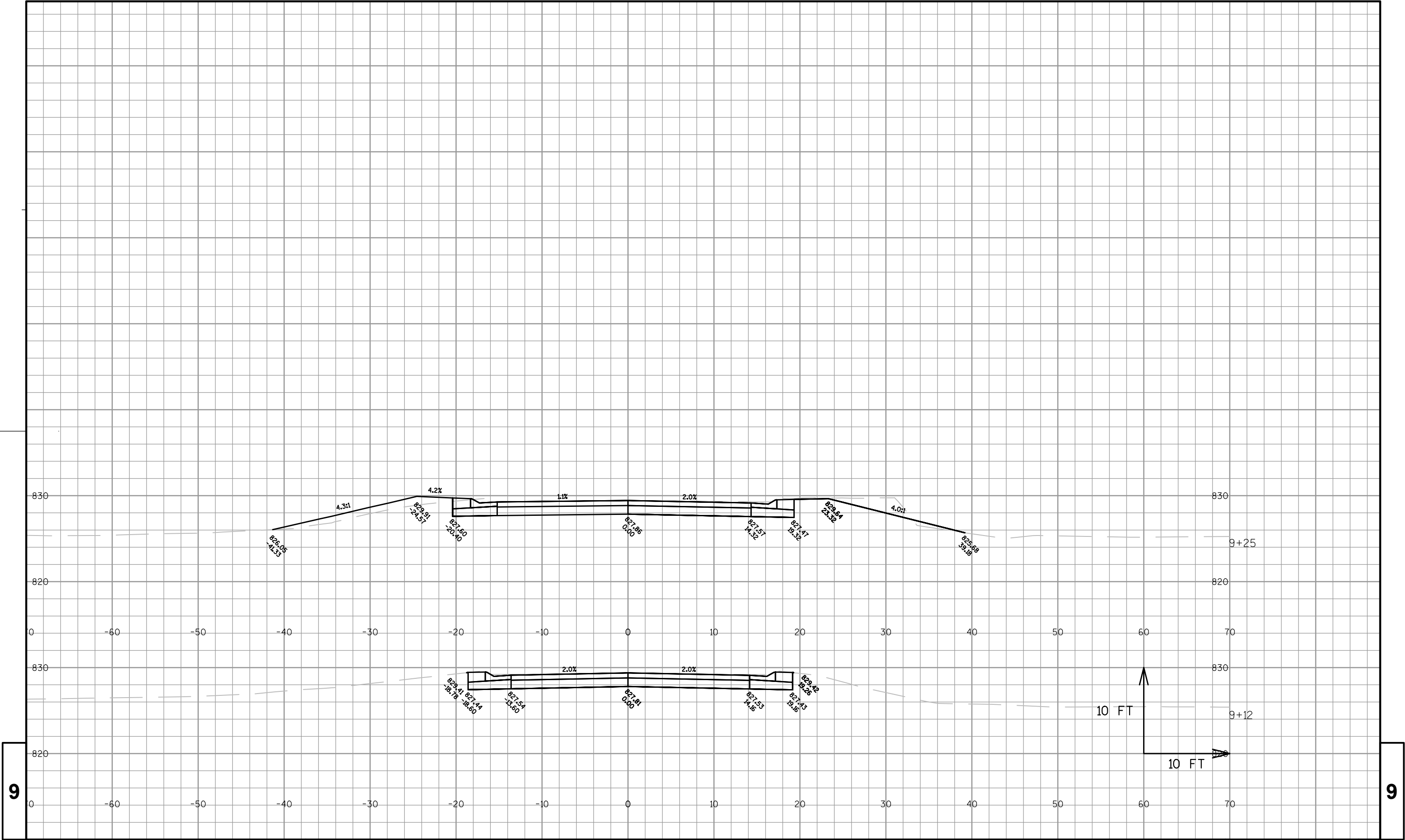
PLOT BY : PHIL SAEGER

PLOT NAME :

PLOT SCALE : 1 IN:10 FT.XREF

WISDOT/CADDs SHEET 49





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PROJECT NO: 7505-00-71

HWY: STH 121

COUNTY: TREMPLEAU

CROSS SECTIONS: TOWER DRIVE

SHEET

E

FILE NAME : P:\90S\93\00093136\CADD\CIVIL\DESIGN\CORRIDORS\STH 121\CORRIDOR_A6 - PREL_PLAN_111213.DWG

PLOT DATE : 4/28/2014 8:55 AM

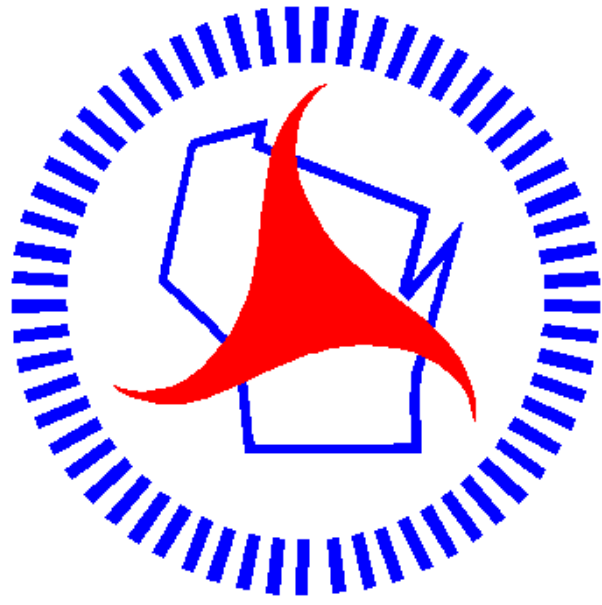
PLOT BY : DAVE KATZNER

PLOT NAME :

PLOT SCALE : 1 IN:10 FT

WISDOT/CADD SHEET 49

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

<http://www.dot.wisconsin.gov>