

MAD JAN 13

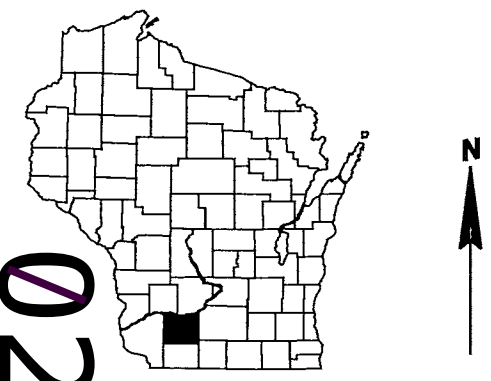
PROJECT ID: 5255-01-60
WITH:

COUNTY: IOWA

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 = 142



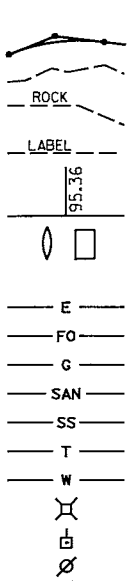
DESIGN DESIGNATION

A.A.D.T. (2013)	=	2500
A.A.D.T. (2033)	=	3100
D.H.V.	=	440
D.D.	=	63/37
T.	=	6.8%
DESIGN SPEED	=	55
ESALS	=	700,800

CONVENTIONAL SYMBOLS

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

PROFILE	
GRADE LINE	-----
ORIGINAL GROUND	-----
MARSH OR ROCK PROFILE (To be noted as such)	-----
SPECIAL DITCH	-----
GRADE ELEVATION	95.36
CULVERT (Profile View)	○ □
UTILITIES	
ELECTRIC	— E —
FIBER OPTIC	— FO —
GAS	— G —
SANITARY SEWER	— SAN —
STORM SEWER	— SS —
TELEPHONE	— T —
WATER	— W —
UTILITY PEDESTAL	⊕
POWER POLE	⊕
TELEPHONE POLE	⊕



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PLAN OF PROPOSED IMPROVEMENT
MINERAL POINT - SPRING GREEN
(CTH ZZ TO LOWER WYOMING ROAD)
STH 23
IOWA COUNTY

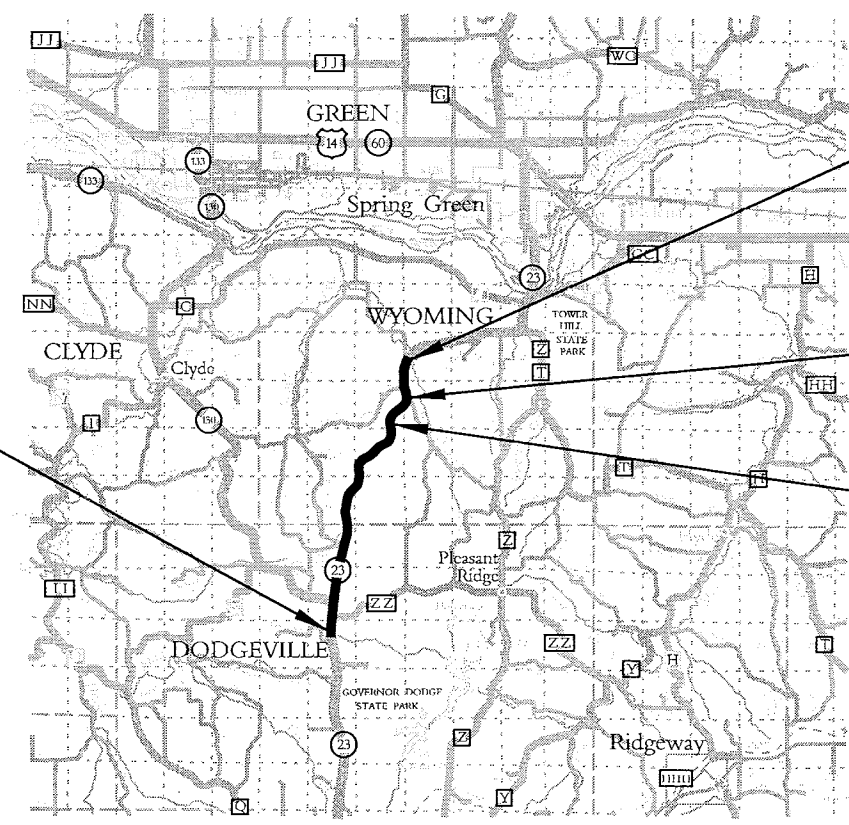
STATE PROJECT NUMBER
5255-01-60

BEGIN PROJECT 5255-01-60
STA. 267+00
Y 184 963.46
X 375 835.91

END PROJECT 5255-01-60
STA. 582+00
Y 213 307.43
X 383 900.07

EQUATION
STA. 146+00.00 BK =
STA. 542+85.65 AH

EQUATION
STA. 509+86.81 BK =
STA. 113+00.00 AH



LAYOUT
SCALE 0 2 MI.

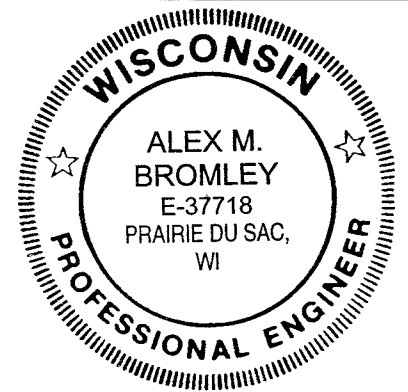
TOTAL NET LENGTH OF CENTERLINE = 5.97 MI.

NOTES:
COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), IOWA COUNTY, NAD 1983 (97).
ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD 99 (91).

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5255-01-60	-----	-----

WESTBROOK
Associated Engineers, Inc.

619 EAST HOXIE STREET
P.O. BOX 429
SPRING GREEN, WI. 53588
PHONE (608)-588-7866
FAX (608) 588-7954



9/27/12 (Date)
A4B-7 (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WESTBROOK
Designer	WESTBROOK
Project Manager	WILLIAM STROBEL
Regional Examiner	
Regional Supervisor	CHRIS HODGES
C.O. Examiner	JE

APPROVED FOR THE DEPARTMENT
DATE: 9/21/12 (Signature)

E

GENERAL NOTES

NO TREES OR SHRUBS TO BE REMOVED WITHOUT THE APPROVAL OF THE ENGINEER.

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

DRIVEWAYS SHALL BE REPLACED IN KIND.

WHEN THE QUANTITY OF THE ITEMS OF BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OF THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERAIL AS DIRECTED BY THE ENGINEER.

EXACT LOCATION AND WIDTH OF ALL DRIVEWAY ENTRANCES TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

RADIUS DIMENSIONS FOR THE CURB AND GUTTER ARE TO THE FLAG LINE.

MISCELLANEOUS REMOVAL ITEMS REQUIRING RESTORATION OF CONCRETE OR ASPHALIC CONCRETE DRIVEWAYS, SIDEWALKS, OR SIDE STREETS SHALL BE REMOVED TO AN EXISTING JOINT OR SAWED AS DETERMINED BY THE ENGINEER OR AS SHOWN ON THE PLANS.

ANY EXCAVATION BELOW SUBGRADE (EBS) THAT IS NOT INDICATED ON THE CROSS SECTIONS AND WHICH IS REQUIRED BY THE ENGINEER SHALL BE MEASURED AND PAID FOR AS EXCAVATION COMMON. (EBS) IS NOT TO BE USED TO BALANCE YARDAGE.

FILL EXPANSION IS ESTIMATED AT 1.20

EXPANSION JOINTS TO BE CONSTRUCTED AT ALL RADIUS POINTS IN CURB AND GUTTER.

TYPICAL FINISHED SECTIONS SHOW THE GENERAL ROADWAY FEATURES THROUGHOUT THE PROJECT. PAVEMENT, SLOPES, BORDER SLOPES, ETC., MAY VARY WITHIN THE STATION LIMITS OF THE STATION SECTION.

5-INCH HMA PAVEMENT, TYPE E-1 SHALL BE CONSTRUCTED WITH A 3-INCH LOWER LAYER AND A 2-INCH UPPER LAYER.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY ARE TO BE FERTILIZED AND SEEDED AS DIRECTED BY THE ENGINEER. SEED MIX NO. 20 SHALL BE USED ON ALL AREAS.

EARTHWORK WASTE MATERIAL SHOWN ON THE EARTHWORK SUMMARY SHALL BE HAULED FROM THE PROJECT, EXCEPT AS DIRECTED BY THE ENGINEER.

CURVE DATA IS BASED ON ARC DEFINITION.

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS EROSION CONTROL IMPLEMENTATION PLAN (ECIP) AND APPROVED BY THE ENGINEER IN CONSULTATION WITH THE WISCONSIN DEPARTMENT OF NATURAL RESOURCES.

COORDINATE WITH JEFF GUSTAFSON, THE CHANGEABLE MESSAGE SIGN COORDINATOR AT THE SW REGION, (608) 516-6400 TO ALLOW AT LEAST TEN WORKING DAYS FOR THE INSPECTION AND APPROVAL OF THE PORTABLE CHANGEABLE MESSAGE SIGNS PRIOR TO DELIVERY OF THE MESSAGE SIGNS TO THE PROJECT SITE.

THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING OR PARKING LANE.

HMA PAVEMENT WEIGHT CALCULATIONS BASED ON 112 LB/SY/IN.

STANDARD ABBREVIATIONS

ADT	AVERAGE DAILY TRAFFIC
BM	BENCH MARK
C/L	CENTER LINE
Δ	CENTRAL ANGLE OR DELTA
CONC.	CONCRETE
CP	CULVERT PIPE
CTH	COUNTY TRUNK HIGHWAY
DHV	DESIGN HOURLY VOLUME
D	DIRECTIONAL DISTRIBUTION
E	EAST
EL	ELEVATION
ESALS	EQUIVALENT SINGLE AXLE LOADS
FT.	FEET
IN.	INCHES
L	LENGTH
LT.	LEFT
MI	MILE
N	NORTH
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
R	RADIUS
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL
REINF.	REINFORCED
REQ'D.	REQUIRED
R/L	REFERENCE LINE
RT.	RIGHT
SDD	STANDARD DETAIL DRAWING
STA.	STATION
STH	STATE TRUNK HIGHWAY
SE	SUPERELEVATION
T	TANGENT OR / TRUCKS (PERCENT OF)

DESIGN CONSULTANT

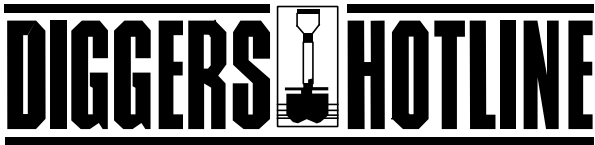
WESTBROOK ASSOCIATED ENGINEERS INC.
619 E. HOXIE STREET
P.O. BOX 429
SPRING GREEN, WI. 53588

ATTN: ALEX BROMLEY
TELEPHONE: (608) 588-7866
EMAIL: abromley@westbrookeng.com

DNR LIAISON

WISCONSIN DEPARTMENT
OF NATURAL RESOURCES
SOUTHERN DISTRICT HEADQUARTERS
3911 FISH HATCHERY ROAD
FITCHBURG, WISCONSIN 53711

ATTN: AMANDA CUSHMAN
TELEPHONE: (608) 275-3485
EMAIL: amanda.cushman@wisconsin.gov



Call 811 3 Work Days Before You Dig
or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

** DENOTES UTILITIES THAT ARE NOT MEMBERS OF DIGGERS HOTLINE

UTILITIES

ALLIANT ENERGY - ELECTRIC
SUITE 1000
4902 N BILTMORE LANE
MADISON, WI 53718

ATTN: JASON HOGAN
PHONE: (608) 395-7395
EMAIL: jasonhogan@alliantenergy.com

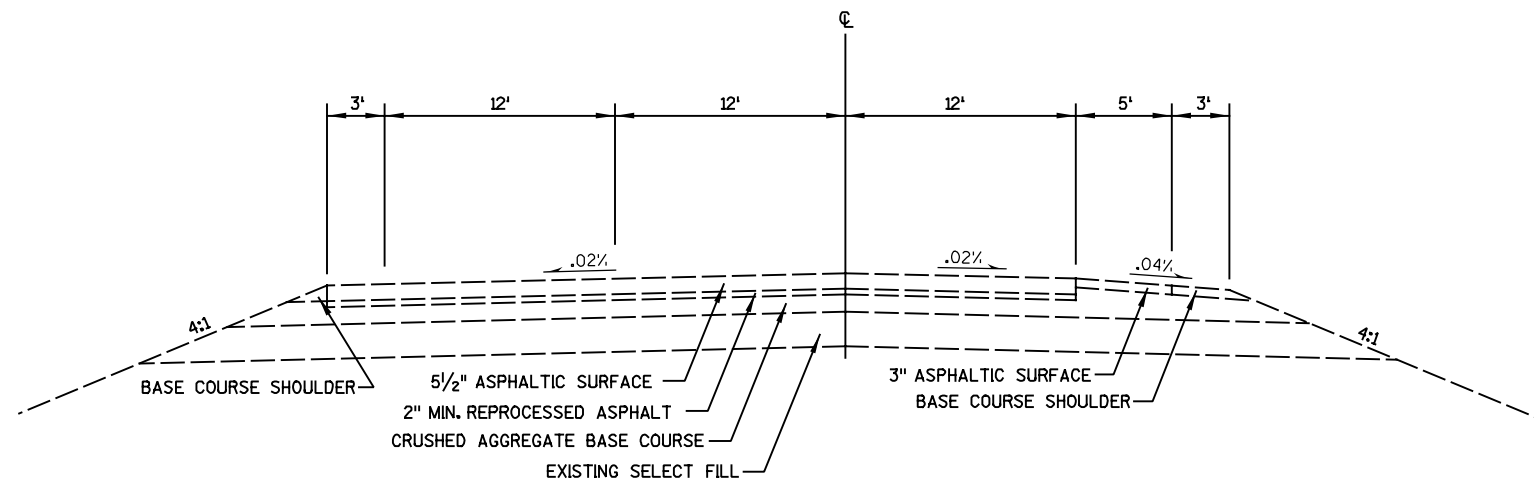
SPRING GREEN GOLF CLUB SANITARY DIST. #2
TOWN OF WYOMING
5851 COUNTY ROAD Z
SPRING GREEN, WI 53588

ATTN: JOHN HESS - CHAIRMAN
PHONE: (608) 588-7082
EMAIL: johnhesswyomlng@gmail.com

FRONTIER COMMUNICATIONS OF WILLC
118 DIVISION STREET
PLYMOUTH, WI 53073

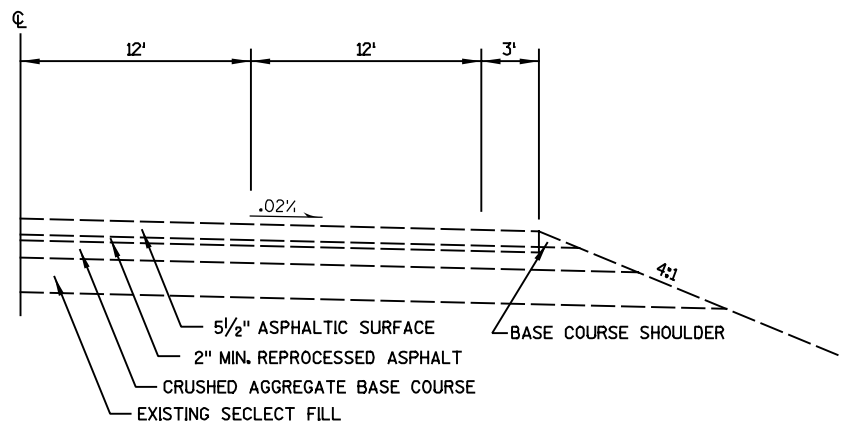
ATTN: ROBERT CHURCH
PHONE: (608) 509-3668
EMAIL: robert.church@ftr.com

TOTAL PROJECT AREA = 47.88 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 23.94 ACRES



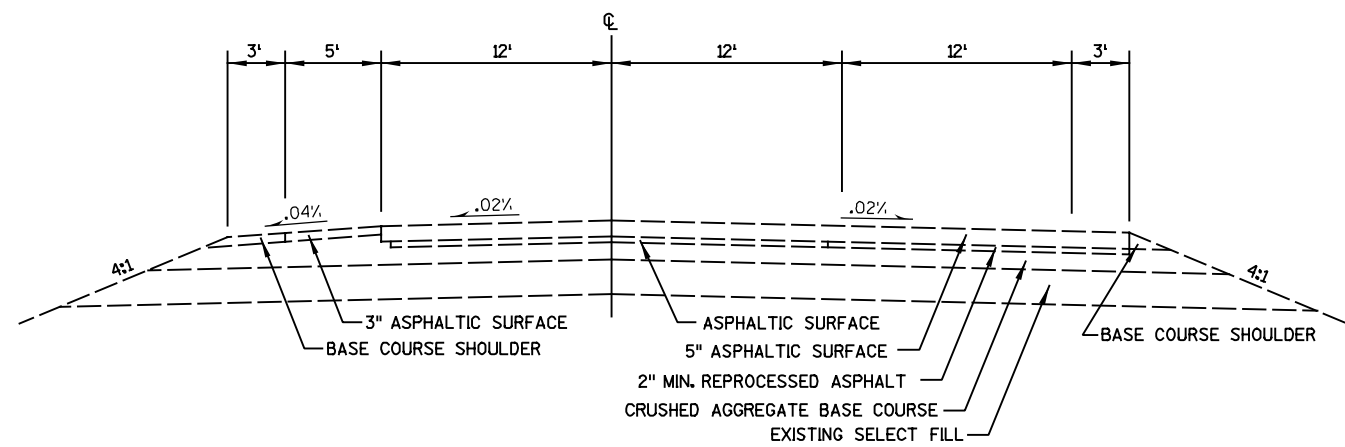
TYPICAL EXISTING SECTION

STA. 266+00 - STA. 290+00 LT.
STA. 266+00 - STA. 284+33 RT.



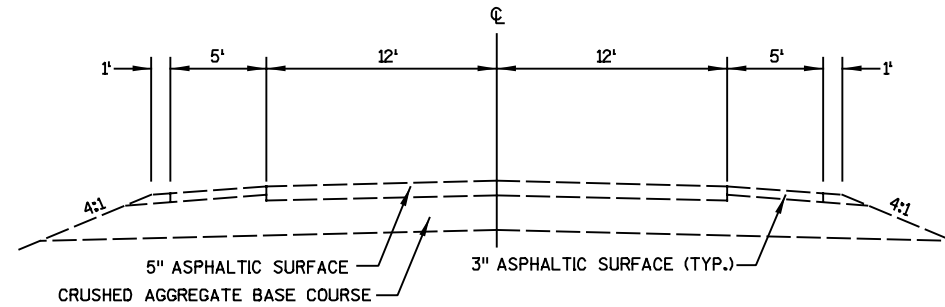
TYPICAL EXISTING HALF SECTION

STA. 284+33 - STA. 290+00 RT.



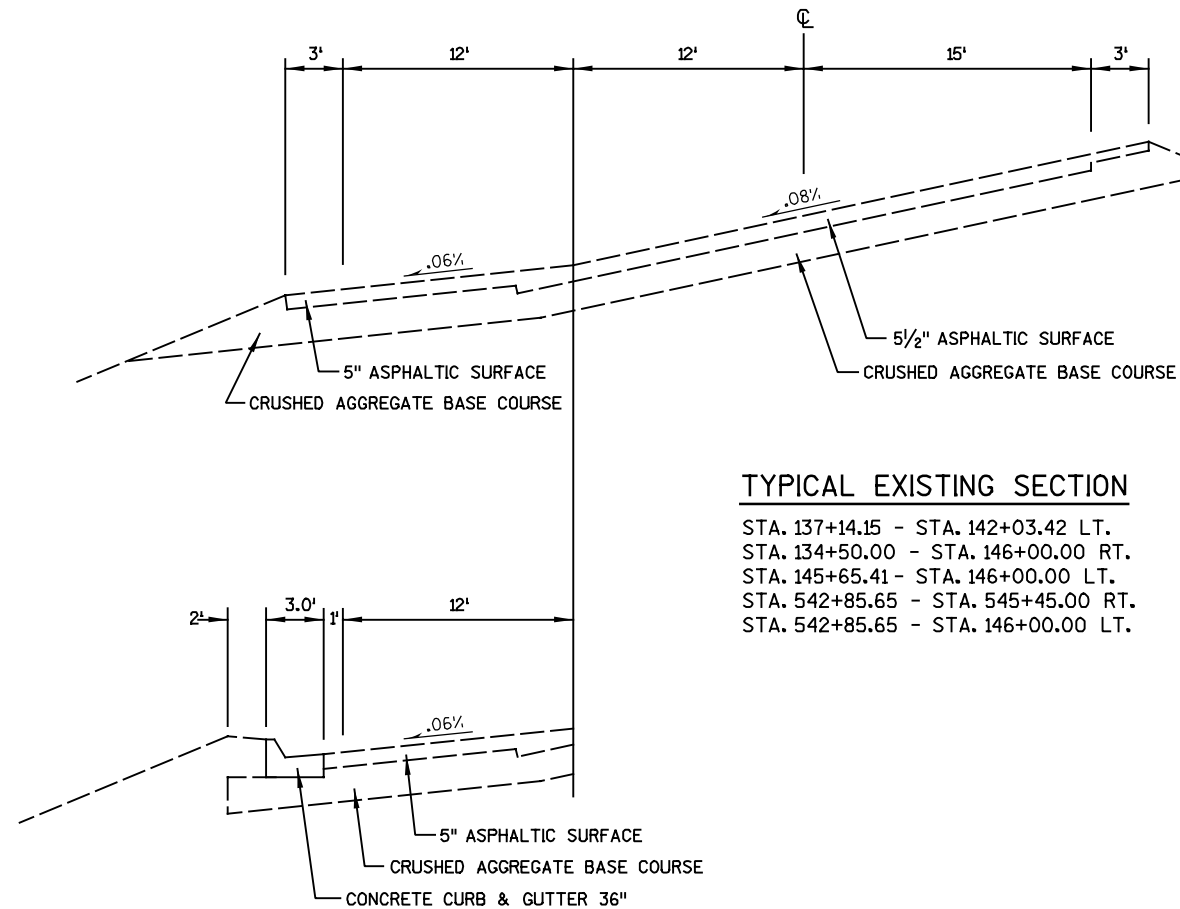
TYPICAL EXISTING SECTION

STA. 290+00 - STA. 310+00



TYPICAL EXISTING SECTION

STA. 310+00 - STA. 398+00 LT.
 STA. 328+00 - STA. 446+00 RT.
 STA. 452+00 - STA. 498+50 RT.
 STA. 504+00 - STA. 509+86.81 RT.
 STA. 113+00 - STA. 134+50 RT.

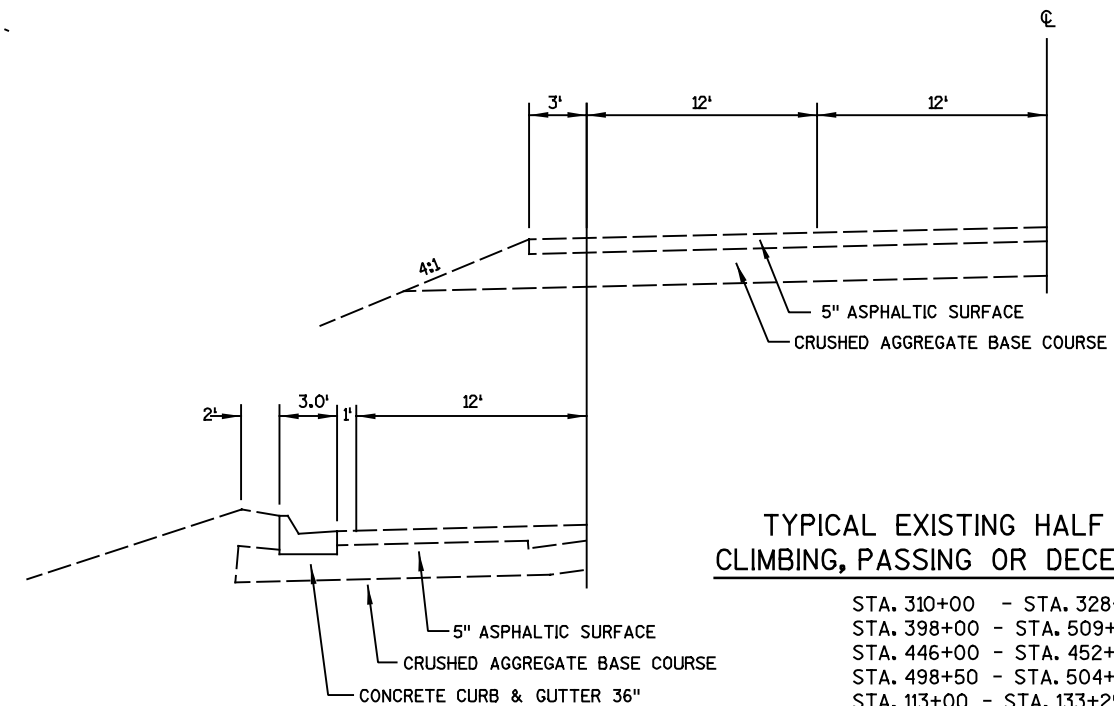


TYPICAL EXISTING SECTION

STA. 137+14.15 - STA. 142+03.42 LT.
 STA. 134+50.00 - STA. 146+00.00 RT.
 STA. 145+65.41 - STA. 146+00.00 LT.
 STA. 542+85.65 - STA. 545+45.00 RT.
 STA. 542+85.65 - STA. 146+00.00 LT.

TYPICAL EXISTING PARTIAL SECTION WITH CURB & GUTTER

STA. 134+50 - STA. 137+14.15 LT.
 STA. 142+03.42 - STA. 145+65.41 LT.

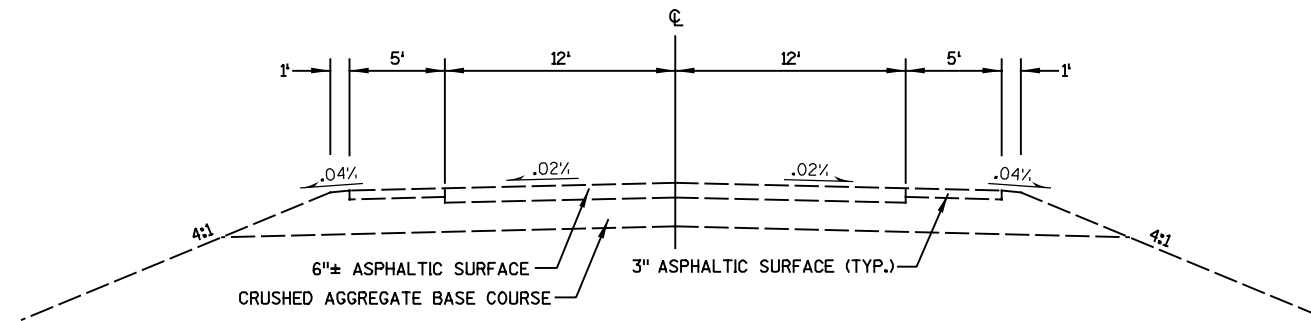


TYPICAL EXISTING HALF SECTION FOR CLIMBING, PASSING OR DECELERATION LANES

STA. 310+00 - STA. 328+00 RT.
 STA. 398+00 - STA. 509+86.81 LT.
 STA. 446+00 - STA. 452+00 LT.
 STA. 498+50 - STA. 504+00 RT.
 STA. 113+00 - STA. 133+29.50 LT.

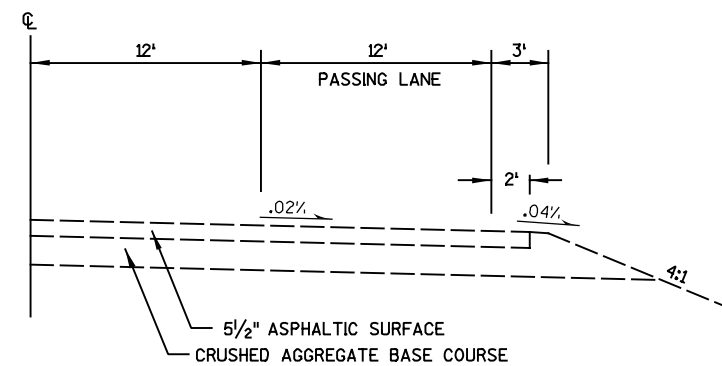
TYPICAL EXISTING PARTIAL SECTION WITH CURB & GUTTER

STA. 133+29.50 - STA. 134+50 LT.



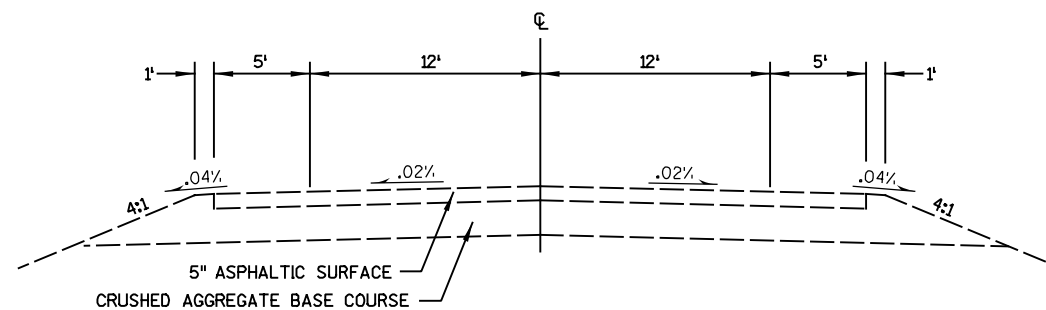
TYPICAL EXISTING SECTION

STA. 545+45 - STA. 548+45 RT.
STA. 545+45 - STA. 556+45 LT.
STA. 555+45 - STA. 556+45 RT.
STA. 568+45 - STA. 582+00



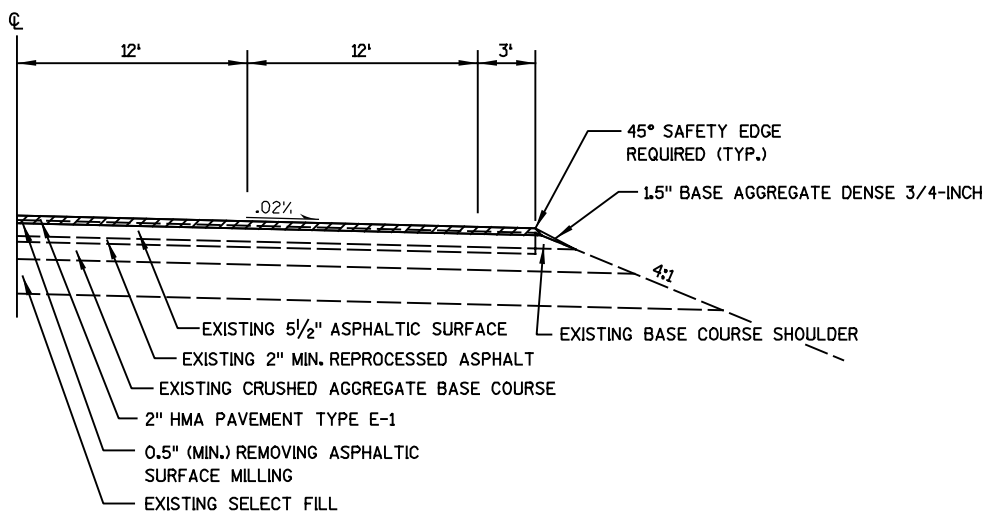
TYPICAL EXISTING HALF SECTION FOR PASSING LANES

STA. 548+45 - STA. 555+45 RT.



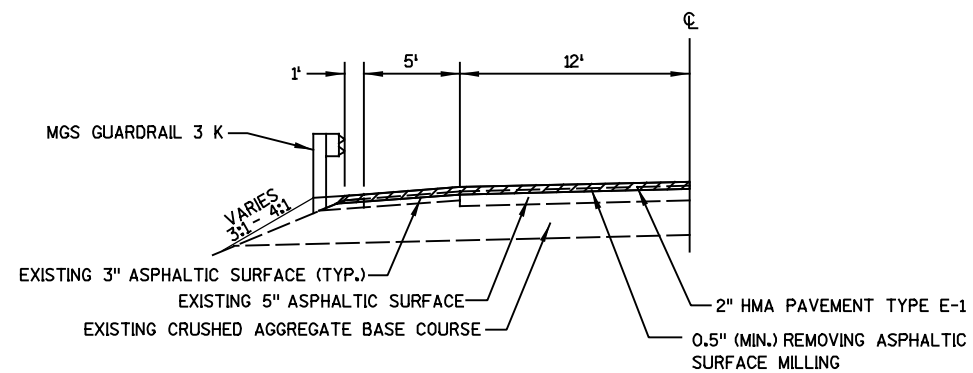
TYPICAL EXISTING SECTION

STA. 556+45 - STA. 568+45



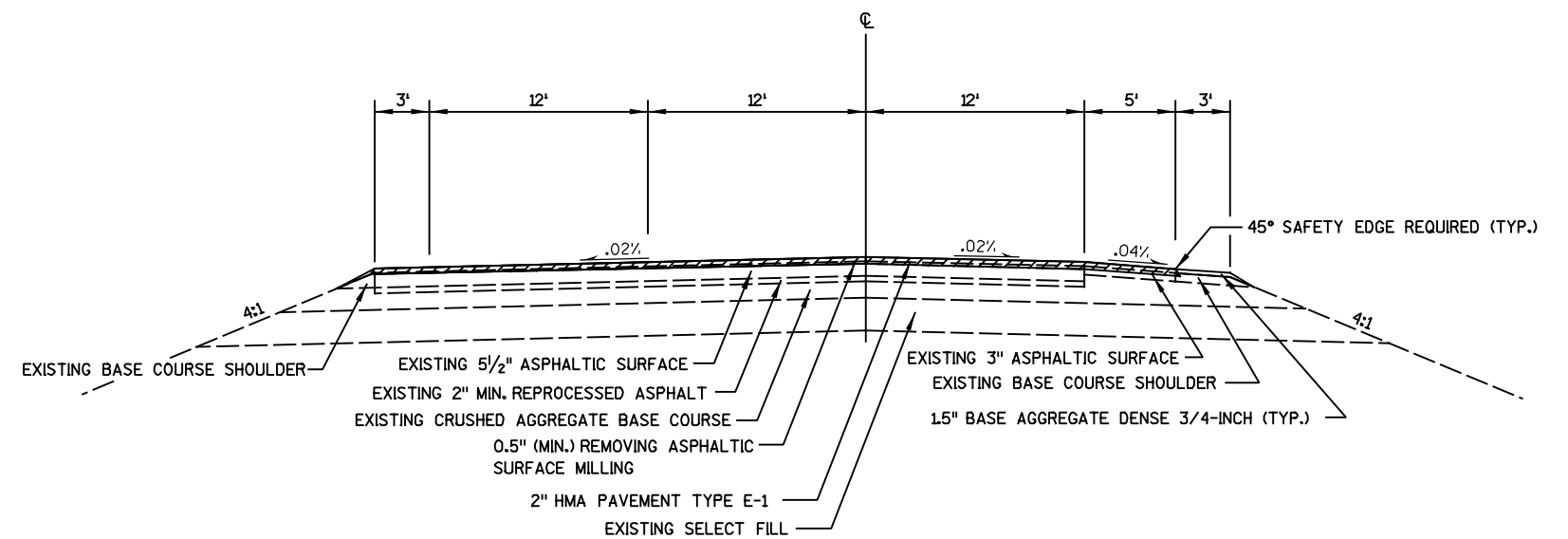
TYPICAL PROPOSED RESURFACE HALF SECTION

STA. 286+50 - STA. 290+00 RT.



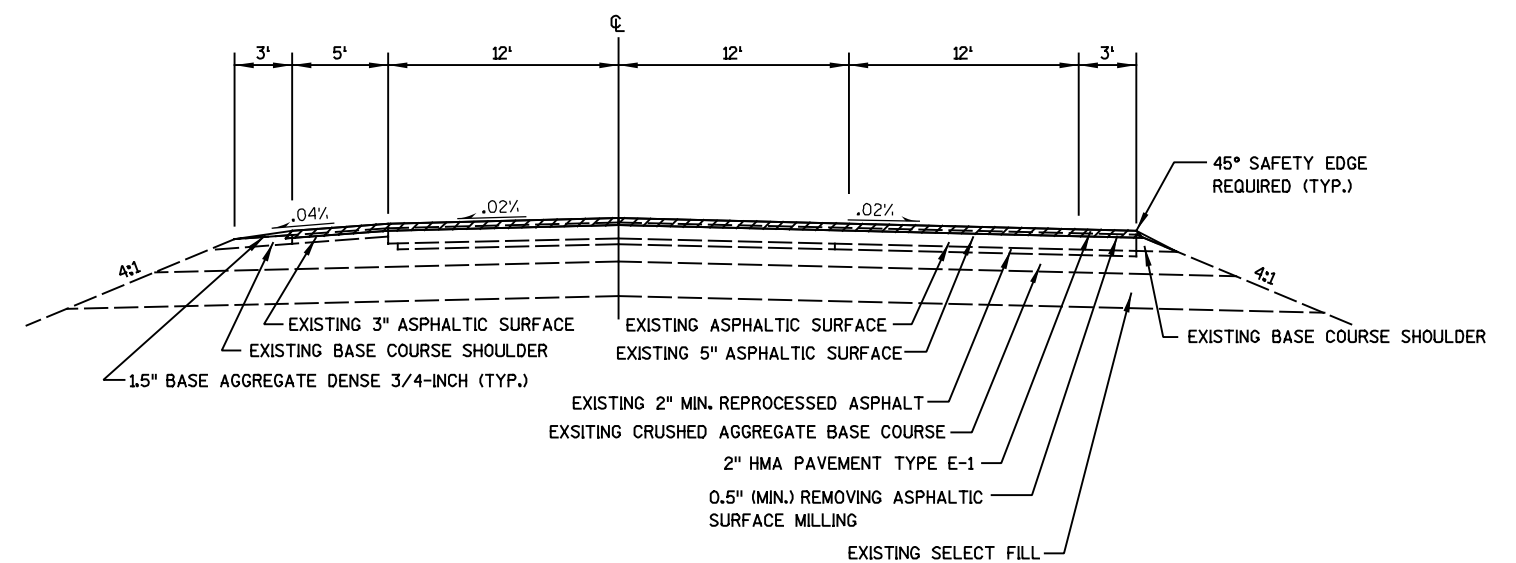
TYPICAL PROPOSED RESURFACE HALF SECTION - GUARDRAIL

STA. 280+25 - STA. 286+50 RT.
STA. 283+15 - STA. 285+77.50 LT.



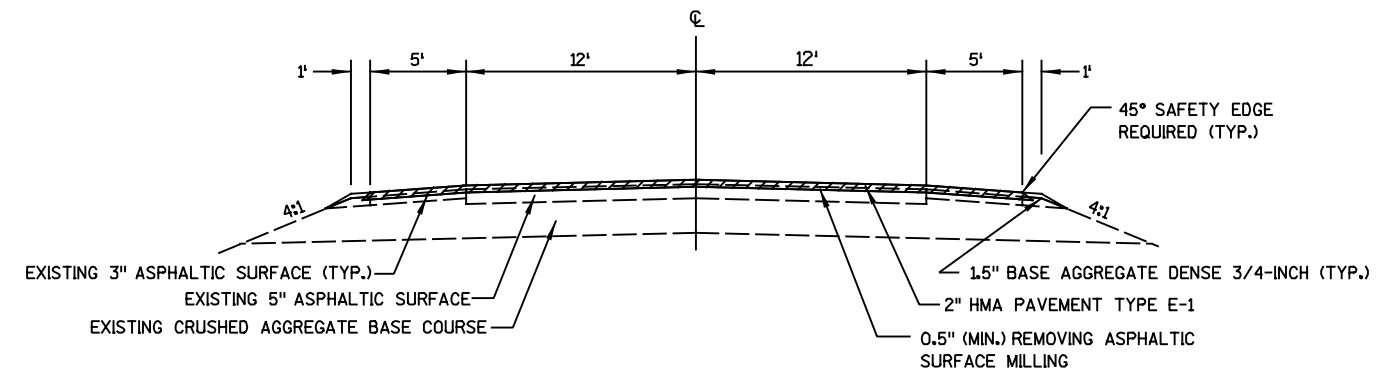
TYPICAL PROPOSED RESURFACE SECTION

STA. 266+00 - STA. 283+15 LT.
STA. 285+77.50 - STA. 290+00 LT.
STA. 266+00 - STA. 280+25 RT.



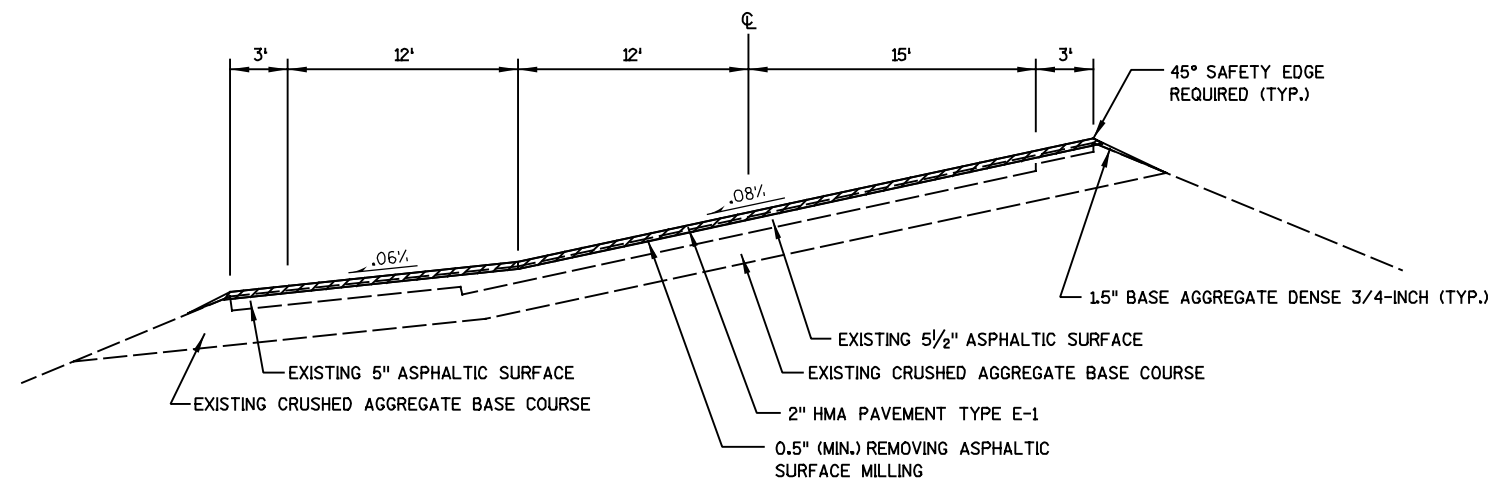
TYPICAL PROPOSED RESURFACE SECTION

STA. 290+00 - STA. 310+00



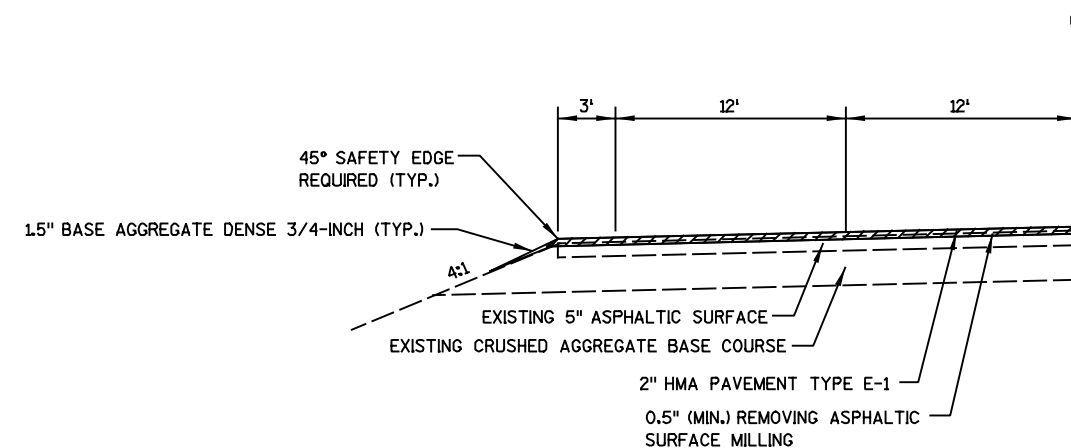
TYPICAL PROPOSED RESURFACE SECTION

STA. 310+00 - STA. 398+00 LT.
 STA. 328+00 - STA. 446+00 RT.
 STA. 452+00 - STA. 498+50 RT.
 STA. 504+00 - STA. 509+86.81 RT.



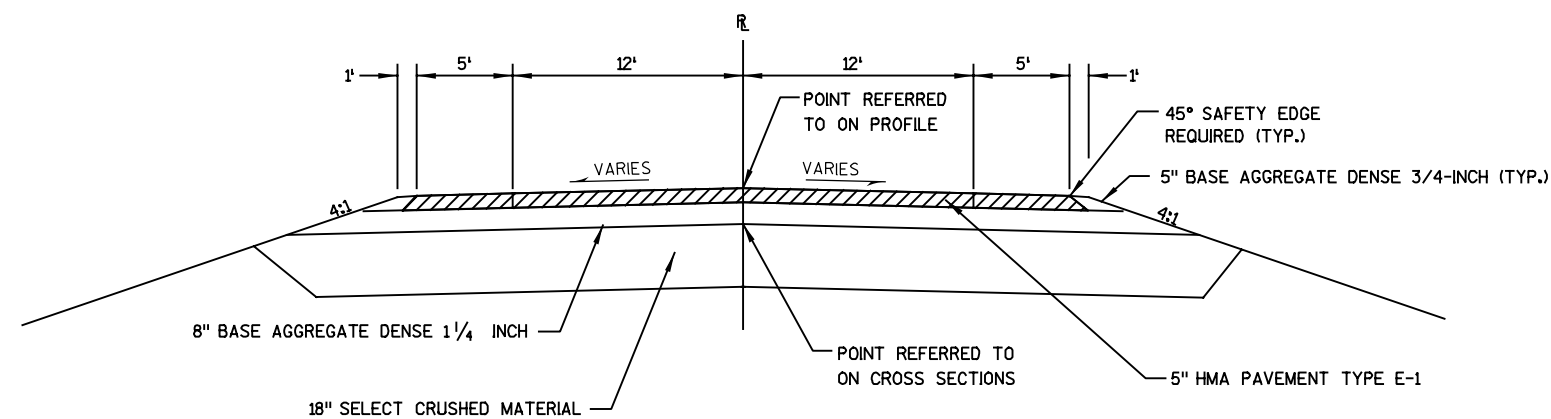
TYPICAL PROPOSED RESURFACE SECTION

STA. 542+85.65 - STA. 545+45.00



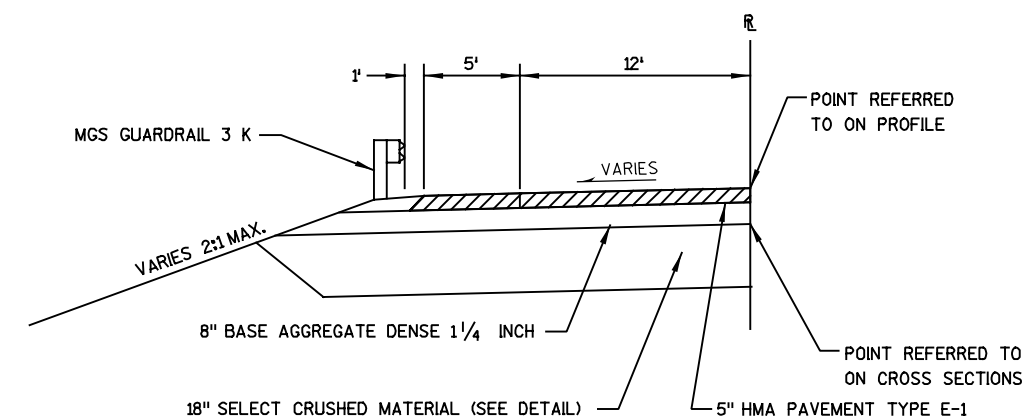
TYPICAL PROPOSED RESURFACE HALF SECTION FOR CLIMBING, PASSING OR DECELERATION LANES

STA. 310+00 - STA. 328+00 RT.
 STA. 398+00 - STA. 509+86.81 LT.
 STA. 446+00 - STA. 452+00 RT.
 STA. 498+50 - STA. 504+00 RT.



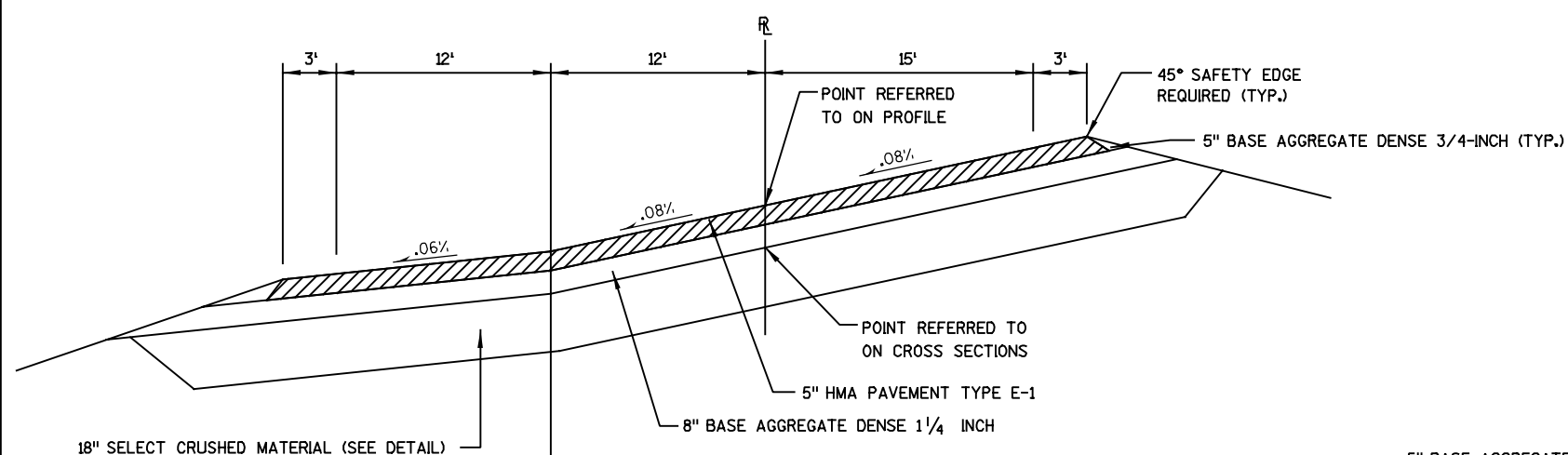
TYPICAL PROPOSED SECTION

STA. 113+00 - STA. 134+50 RT.



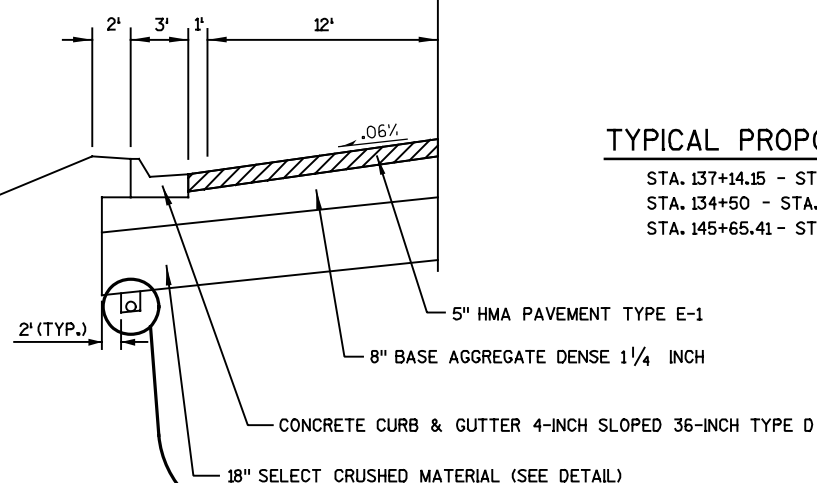
TYPICAL PROPOSED HALF SECTION - GUARDRAIL

STA. 113+20 - STA. 121+95 LT.

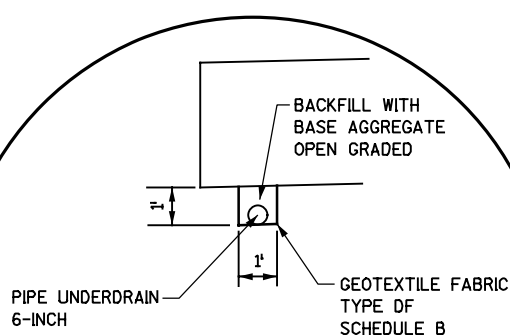


TYPICAL PROPOSED SECTION

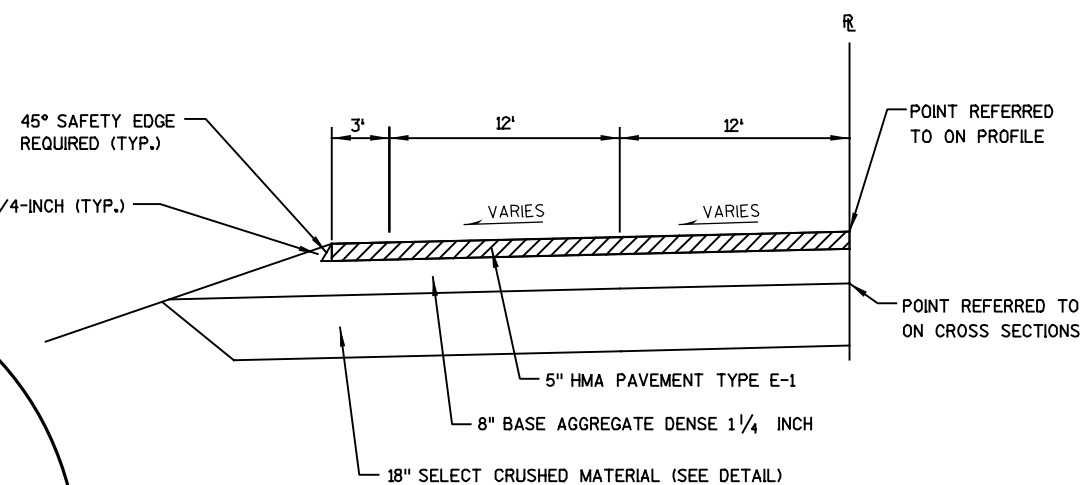
STA. 137+14.15 - STA. 142+03.42, LT
 STA. 134+50 - STA. 146+00 RT.
 STA. 145+65.41 - STA. 146+00, LT

TYPICAL PROPOSED PARTIAL SECTION
WITH CURB & GUTTER

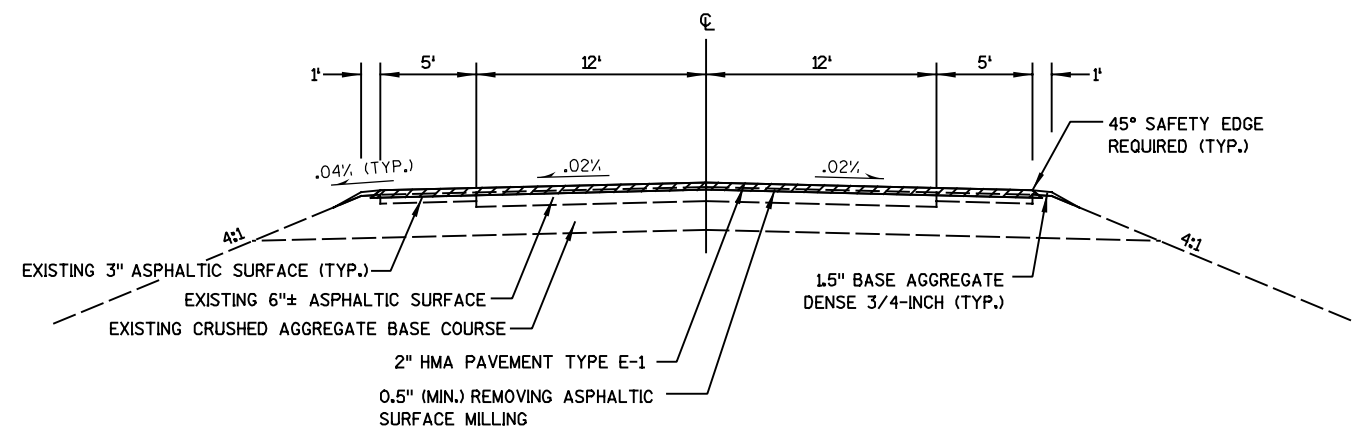
STA. 133+29.50 - STA. 137+14.15 LT.
 STA. 142+03.42 - STA. 145+65.41 LT.

PIPE UNDERDRAIN DETAIL
(TYPICAL TO ALL UNDERDRAIN LOCATIONS)

NOTE: DISCHARGE PIPE UNDERDRAIN INTO EXISTING
 INLETS. CONNECTION IS INCIDENTAL TO ITEM
 "ADJUSTING INLET COVERS"

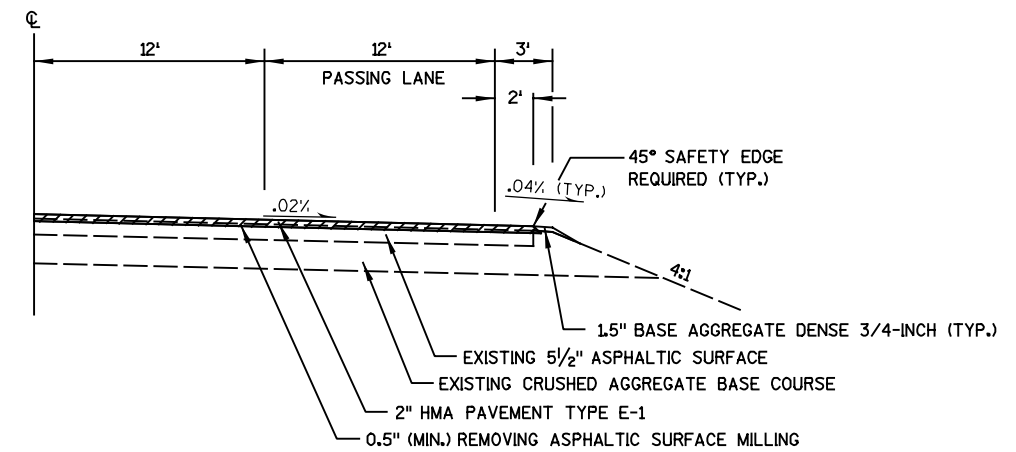
TYPICAL PROPOSED HALF SECTION FOR
CLIMBING, PASSING OR DECELERATION LANES

STA. 113+00.00 - STA. 113+20.00 LT.
 STA. 121+95.00 - STA. 133+29.50 LT.



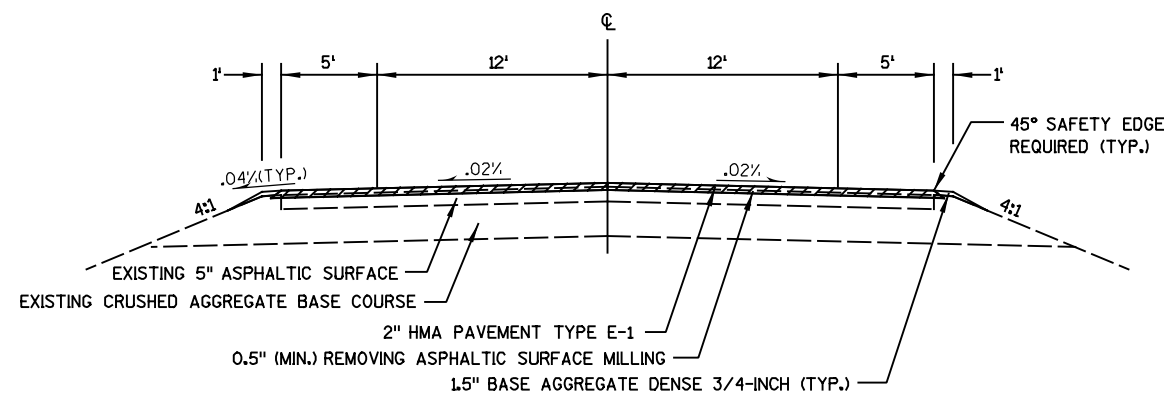
TYPICAL PROPOSED RESURFACE SECTION

STA. 545+45 - STA. 548+45 RT.
STA. 545+45 - STA. 556+45 LT.
STA. 555+45 - STA. 556+45 RT.
STA. 568+45 - STA. 582+00



TYPICAL PROPOSED RESURFACE HALF SECTION FOR PASSING LANES

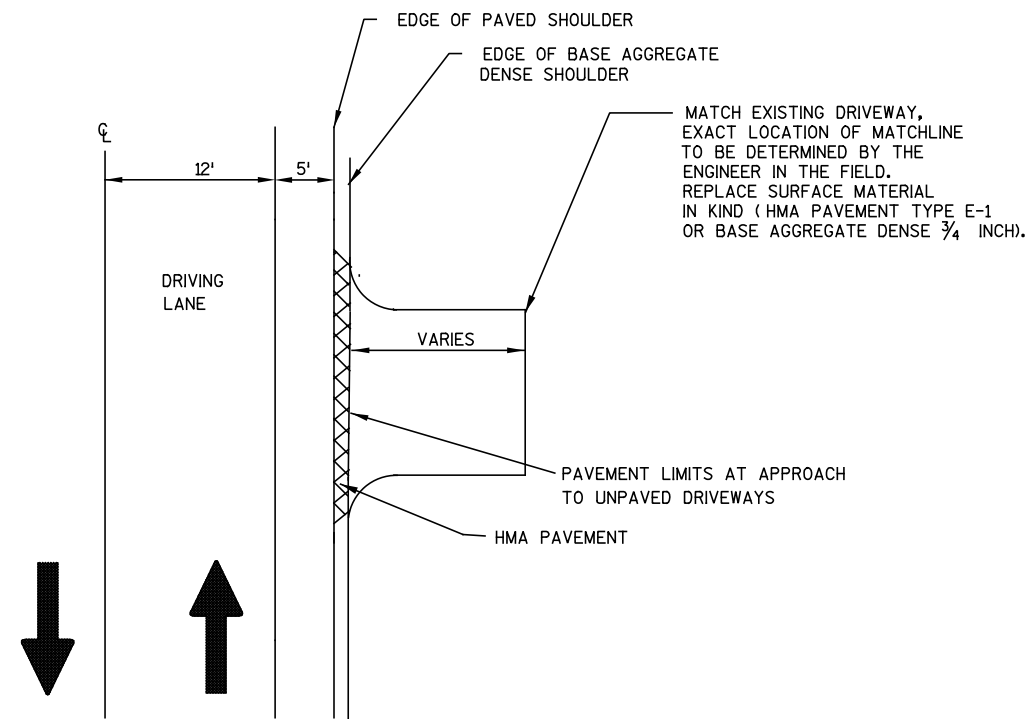
STA. 548+45 - STA. 555+45 RT.



TYPICAL PROPOSED RESURFACE SECTION

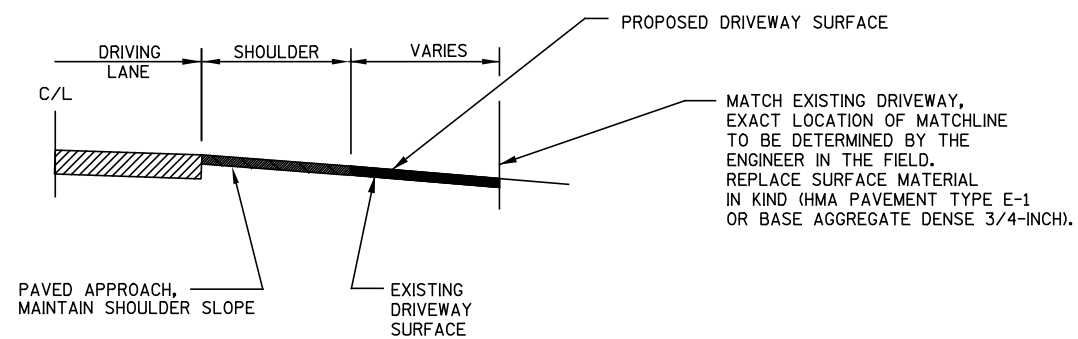
STA. 556+45 - STA. 568+45

2



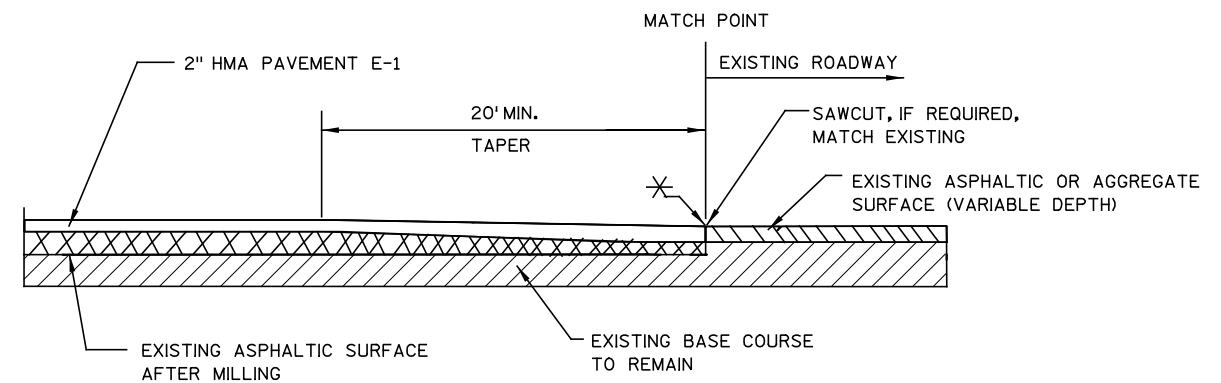
DRIVEWAY INTERSECTION DETAIL

(PAVED SHOULDER ON HIGHWAYS)



TYPICAL DRIVEWAY PROFILES

DETAILS FOR RURAL PRIVATE AND FIELD ENTRANCES



BUTT JOINT DETAIL AT MATCH POINT

EXISTING ASPHALT SURFACE: STA. 266+00
 EXISTING ASPHALT SURFACE: STA. 582+00
 EXISTING ASPHALT SURFACE: CTH ZZ
 EXISTING ASPHALT SURFACE: STH 130
 EXISTING ASPHALT SURFACE: NELSON RD
 EXISTING ASPHALT SURFACE: HOUSE ON THE ROCK RD
 EXISTING ASPHALT SURFACE: SCENIC OVERLOOKS
 EXISTING ASPHALT SURFACE: UPPER WYOMING RD
 EXISTING ASPHALT SURFACE: PERCUSSION ROCK RD
 EXISTING ASPHALT SURFACE: LOWER WYOMING RD

✱ FOR ASPHALTIC SURFACES: MILL THE EXISTING PAVEMENT, PER ITEM REMOVING ASPHALTIC SURFACE BUTT JOINTS TO 2" BELOW THE MATCHING SURFACE AND TAPER BACK FOR 20 FEET.



2

2

STH 130

STA. 282+61.88 - STA. 286+30.62, LT
264 LF MGS GUARDRAIL 3K REQ'D
2 - MGS GUARDRAIL TERMINAL EAT REQ'D

PI 288+01.20

280+00

285+00

290+00

295+00

300+00

305+00

310+00

STH 23

PI 284+01.16

STA. 281+30
EXISTING 48" X 70" CS CATTLE PASS TO BE LINED
WITH 78 LF CULVERT PIPE LINER, 36-INCH SPECIAL
EXISTING 72" X 20' EXTENSION TO REMAIN ON RT

STA. 279+71.88 - STA. 287+03.12, RT
626 LF MGS GUARDRAIL 3K REQ'D
2 - MGS GUARDRAIL TERMINAL EAT REQ'D

PROJECT NO: 5255-01-60

HWY: STH 23

COUNTY: IOWA

PLAN DETAIL

SHEET

E

FILE NAME : G:\00-PROJECT FILES\2012\12014 STH 23\plans\5255-01-60\021202_pd.dgn

PLOT DATE : 11/2/2012

PLOT BY : MIKECO

PLOT NAME :

PLOT SCALE : 200.0000 sf / in.

WISDOT/CADDs SHEET 42



PROJECT NO:5255-01-60

HWY:STH 23

COUNTY:IOWA

PLAN DETAIL

SHEET

E

2

2



PROJECT NO:5255-01-60	HWY: STH 23	COUNTY:IOWA	PLAN DETAIL	SHEET	E
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PROJECT NO:5255-01-60

HWY: STH 23

COUNTY: IOWA

PLAN DETAIL

SHEET

E

FILE NAME : G:\00-PROJECT FILES\2012\12014 STH 23\plans\5255-01-60\021206_pd.dgn

PLOT DATE : 9/24/2012

PLOT BY : MikeCO

PLOT NAME :

PLOT SCALE : 200.0000 sf / in.

WISDOT/CADDs SHEET 42



PROJECT NO: 5255-01-60

HWY: STH 23

COUNTY: IOWA

PLAN DETAIL

SHEET

E



PROJECT NO:5255-01-60

HWY:STH 23

COUNTY:IOWA

PLAN DETAIL

SHEET

E

FILE NAME : G:\00-PROJECT FILES\2012\12014 STH 23\plans\5255-01-60\021208_pd.dgn

PLOT DATE : 9/24/2012

PLOT BY : MikeCO

PLOT NAME :

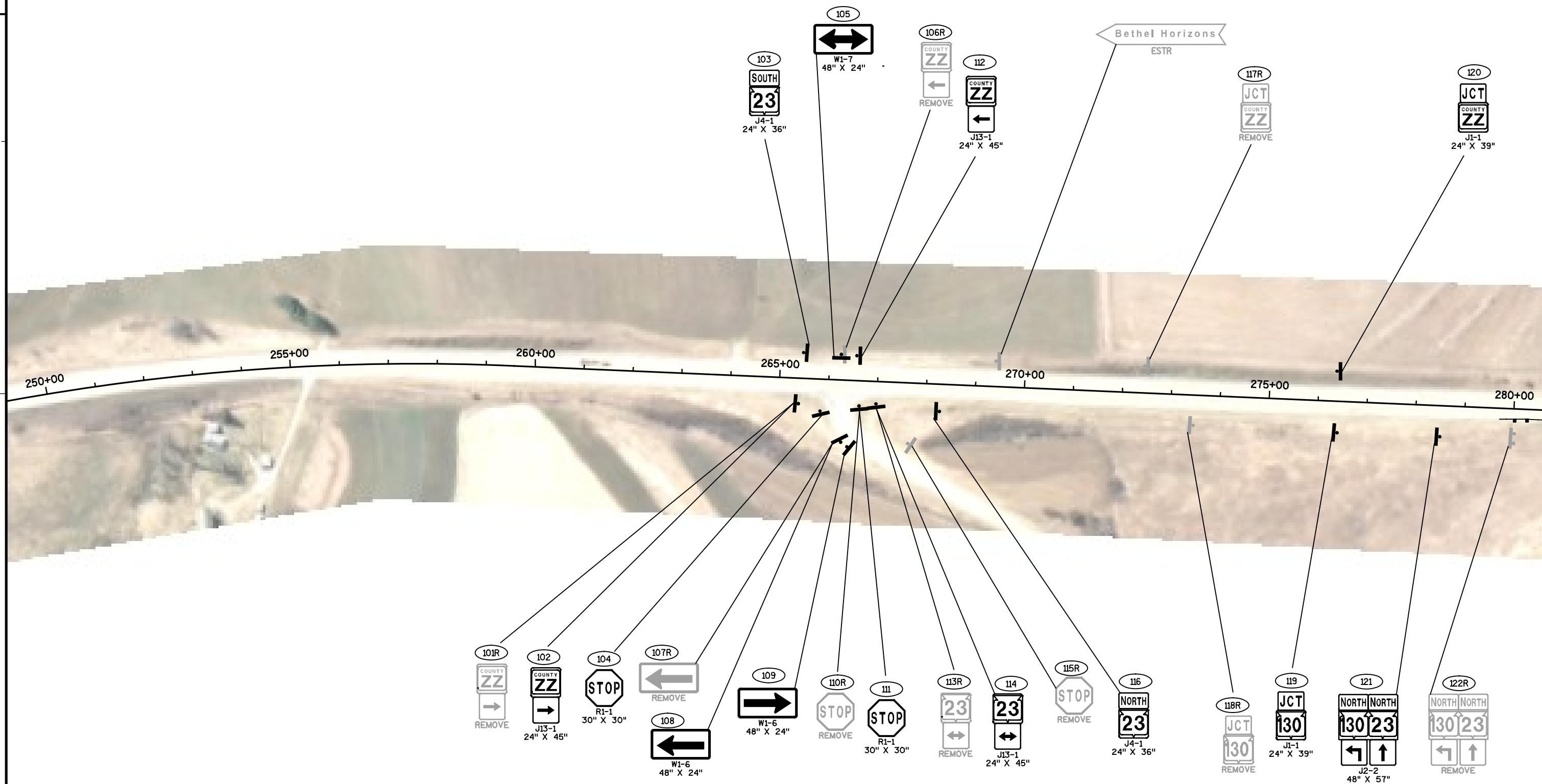
PLOT SCALE : 200.0000 sf / in.

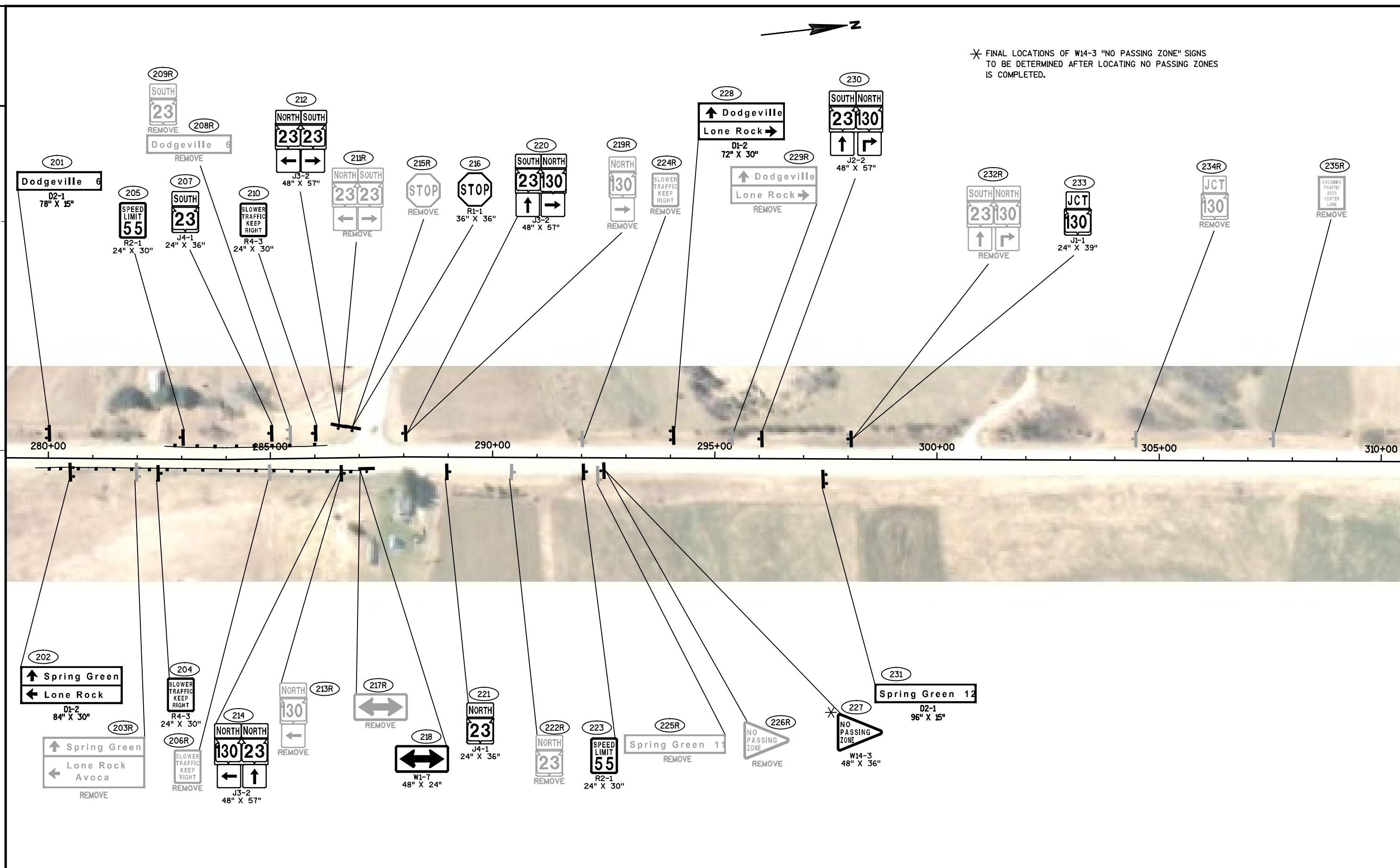
WISDOT/CADDs SHEET 42



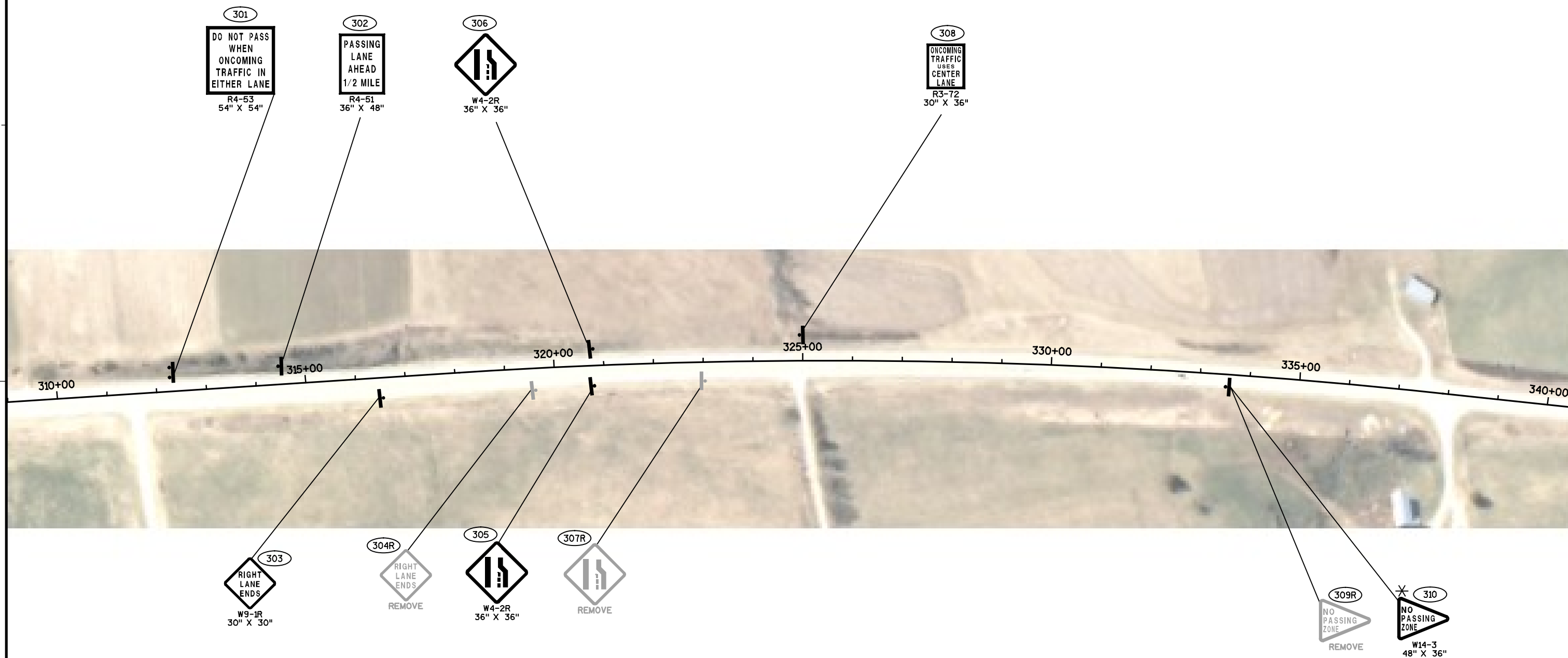




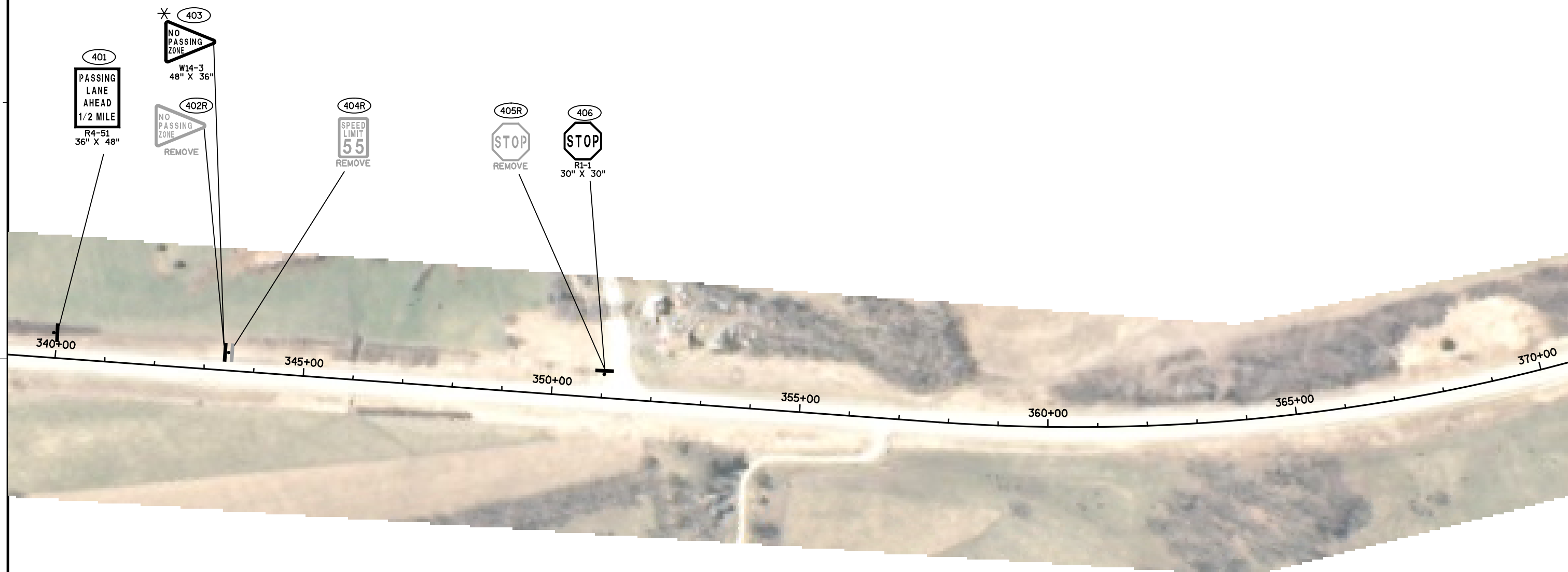


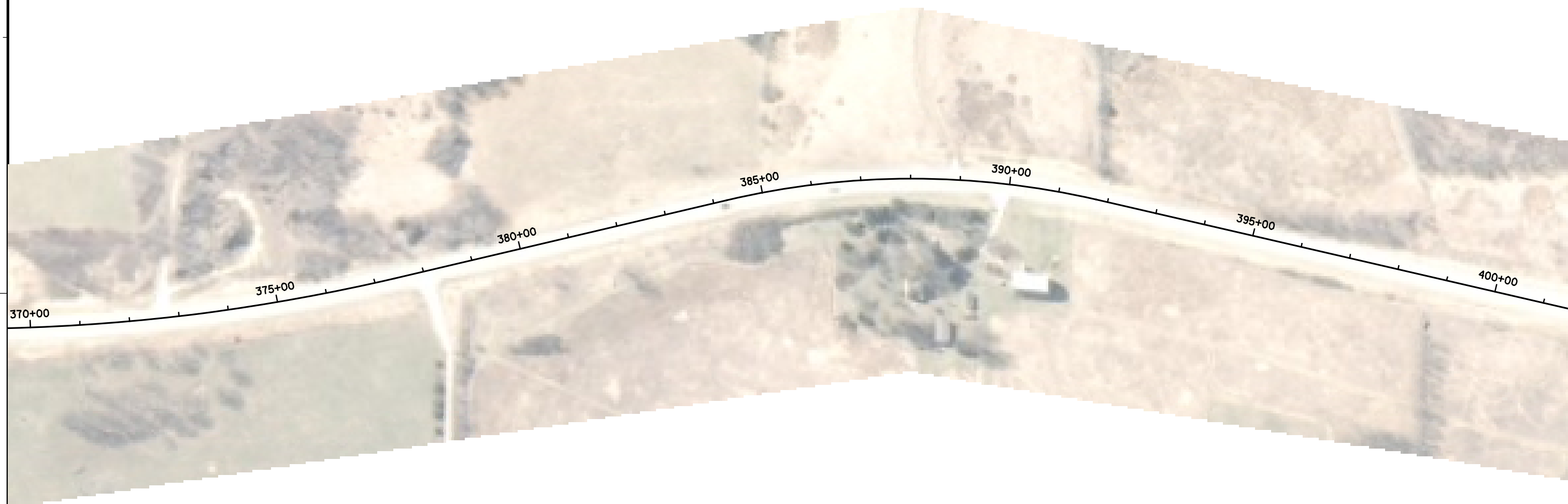


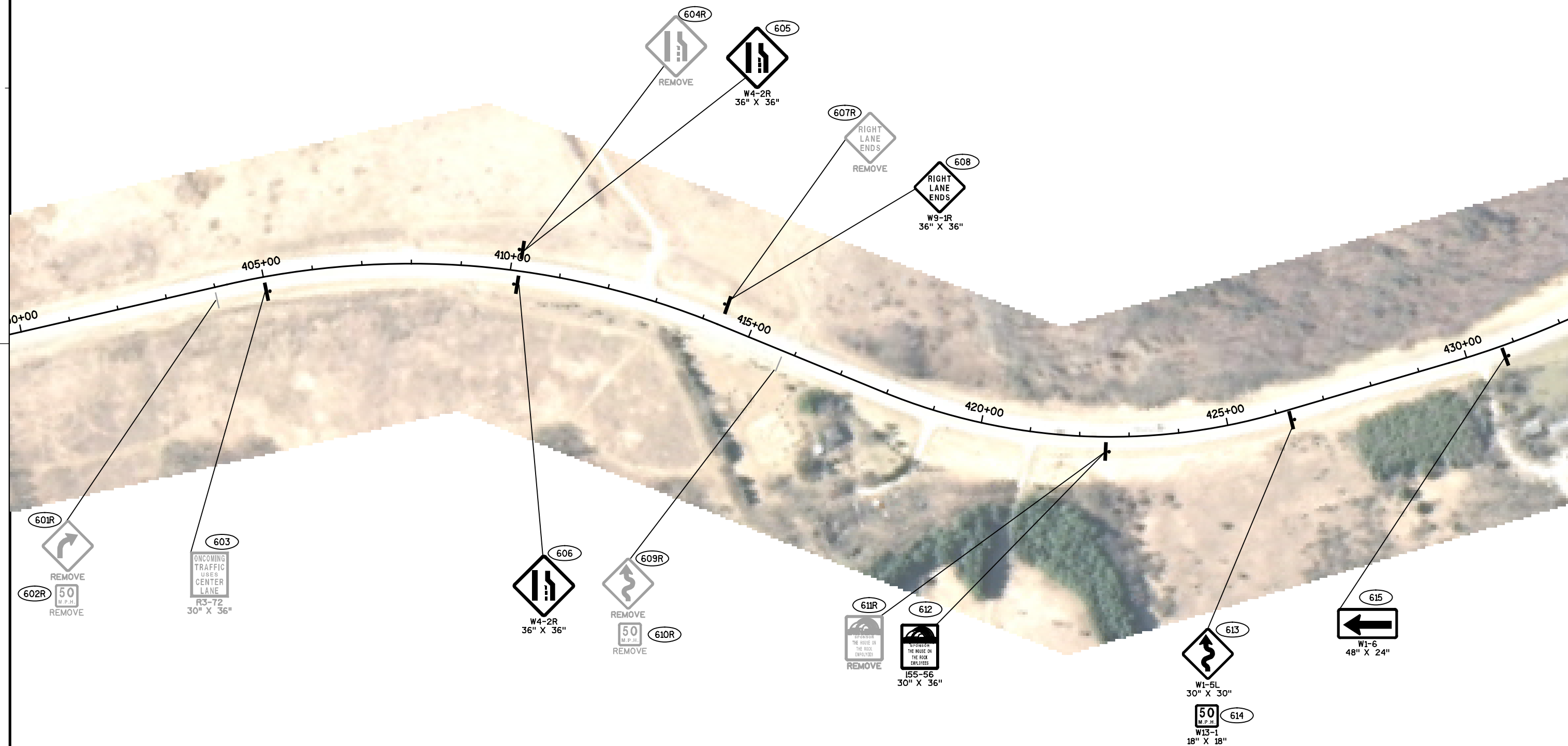
✕ FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS
TO BE DETERMINED AFTER LOCATING NO PASSING ZONES
IS COMPLETED.



* FINAL LOCATIONS OF W14-3 "NO PASSING ZONE" SIGNS
TO BE DETERMINED AFTER LOCATING NO PASSING ZONES
IS COMPLETED.

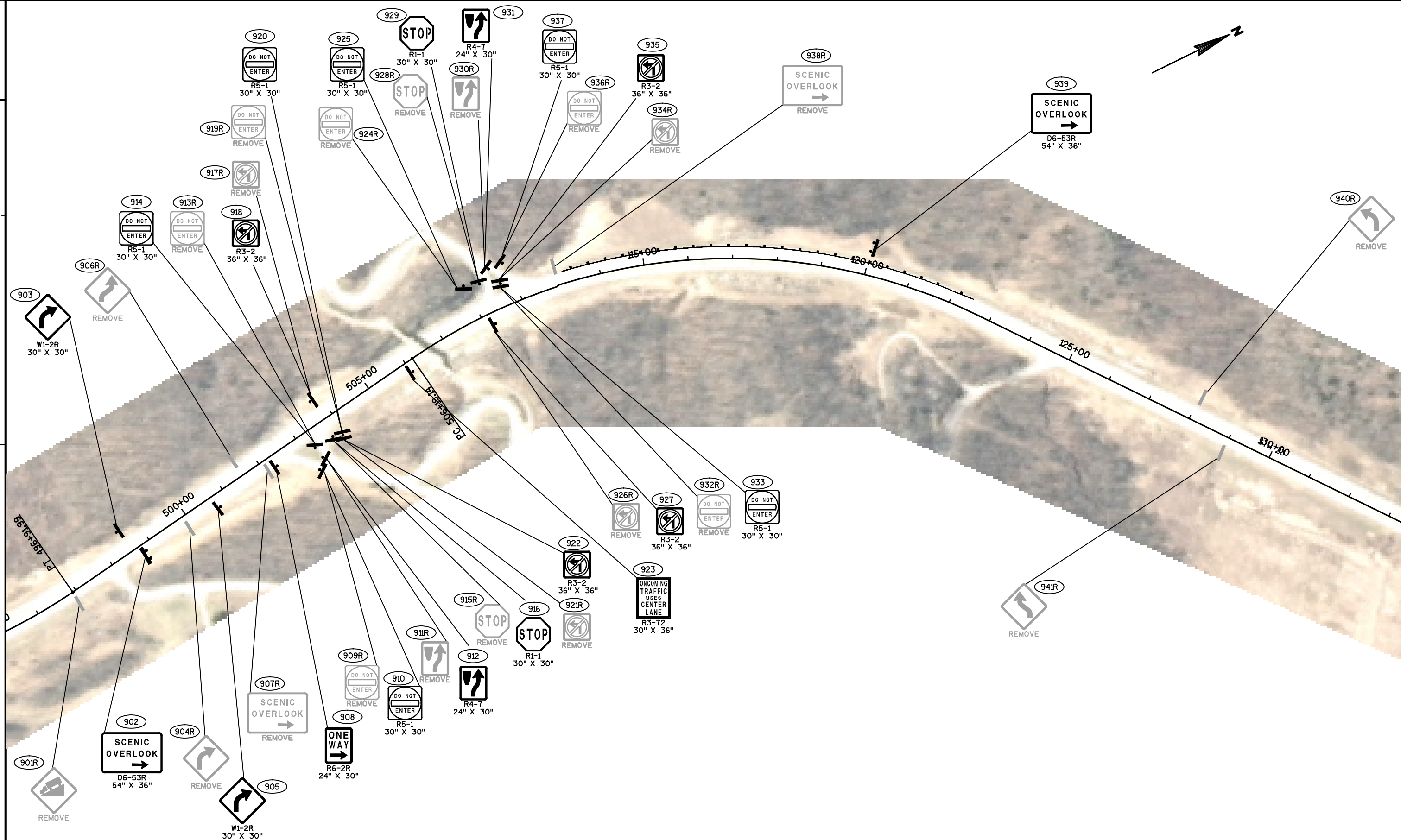


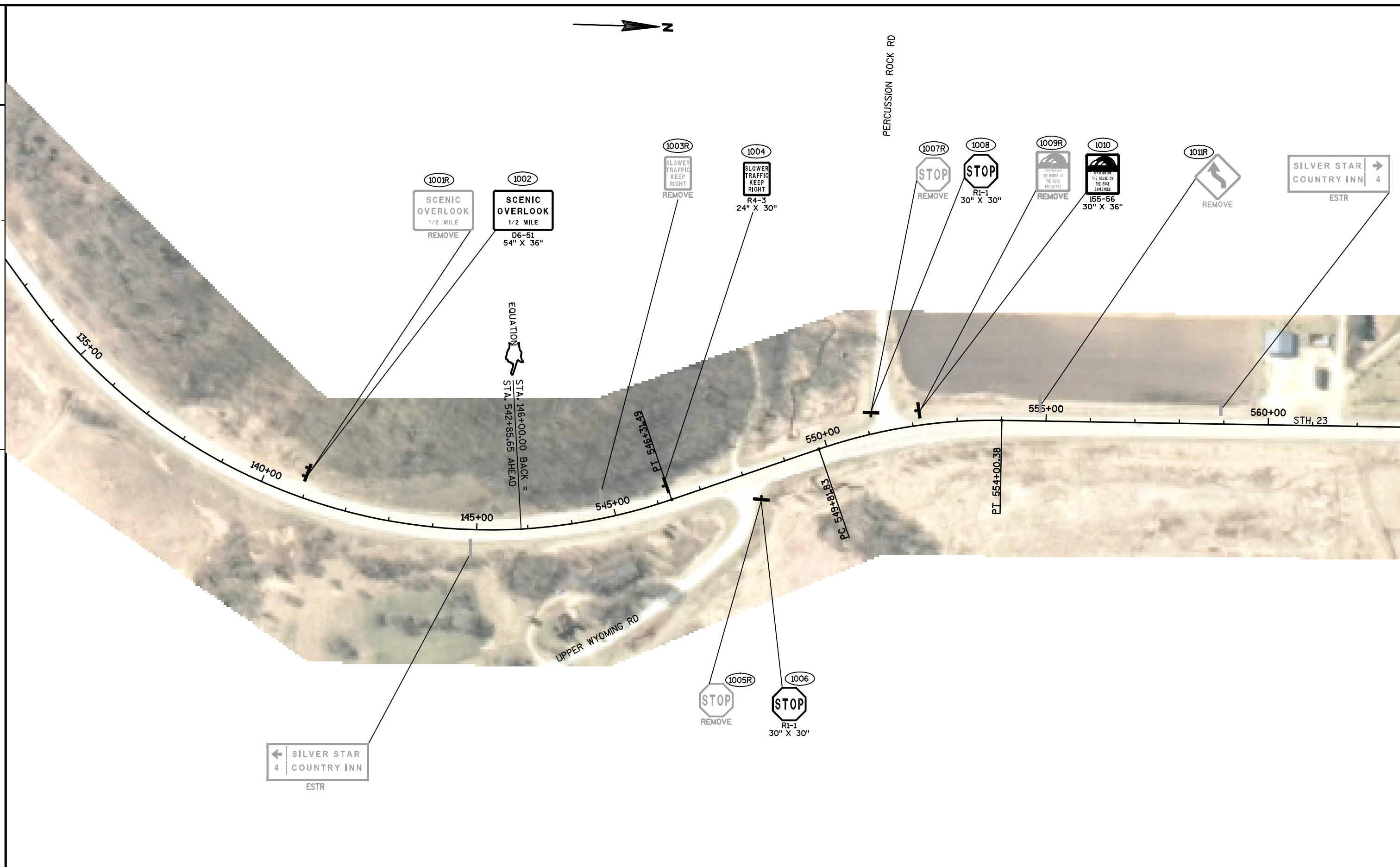


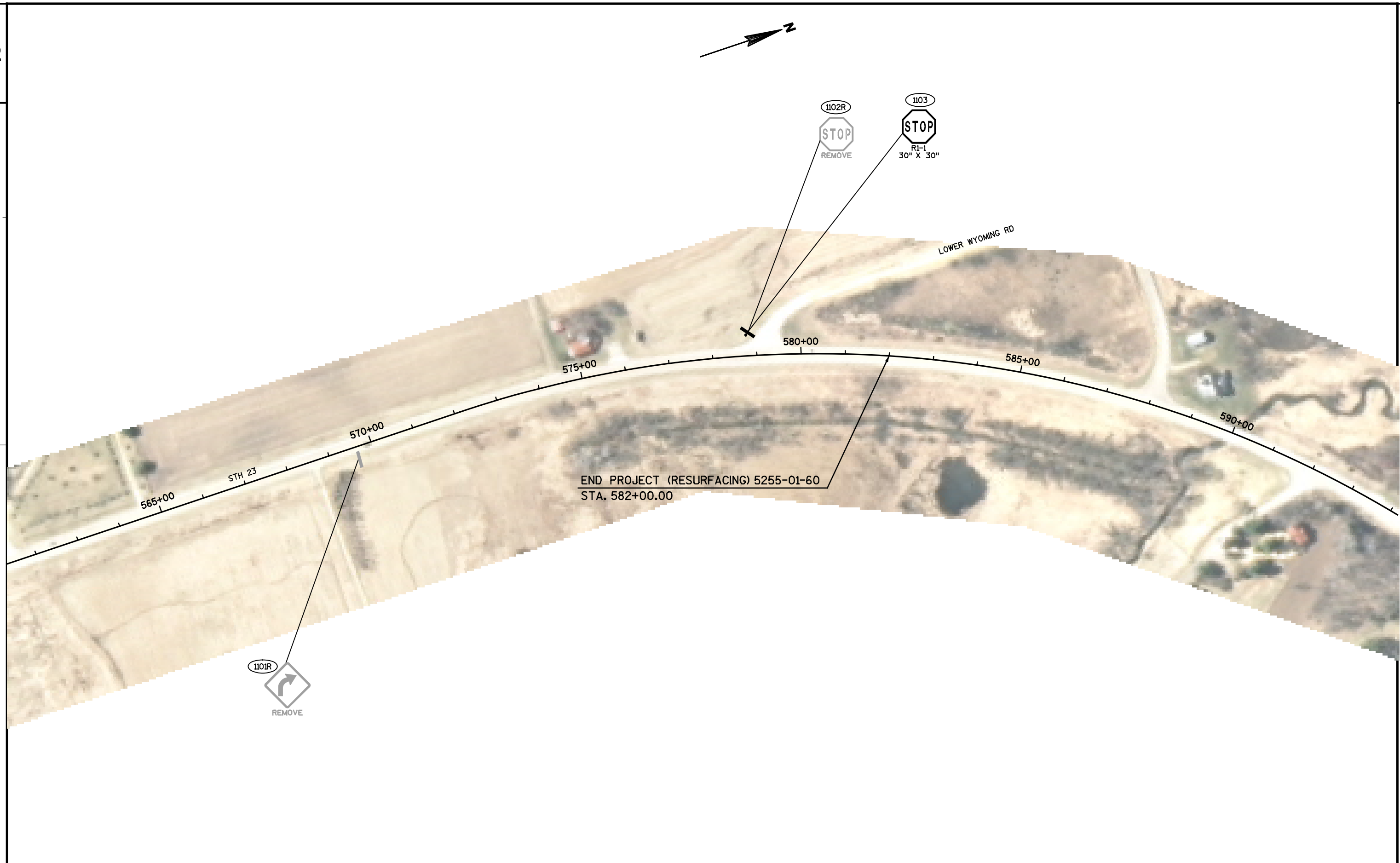




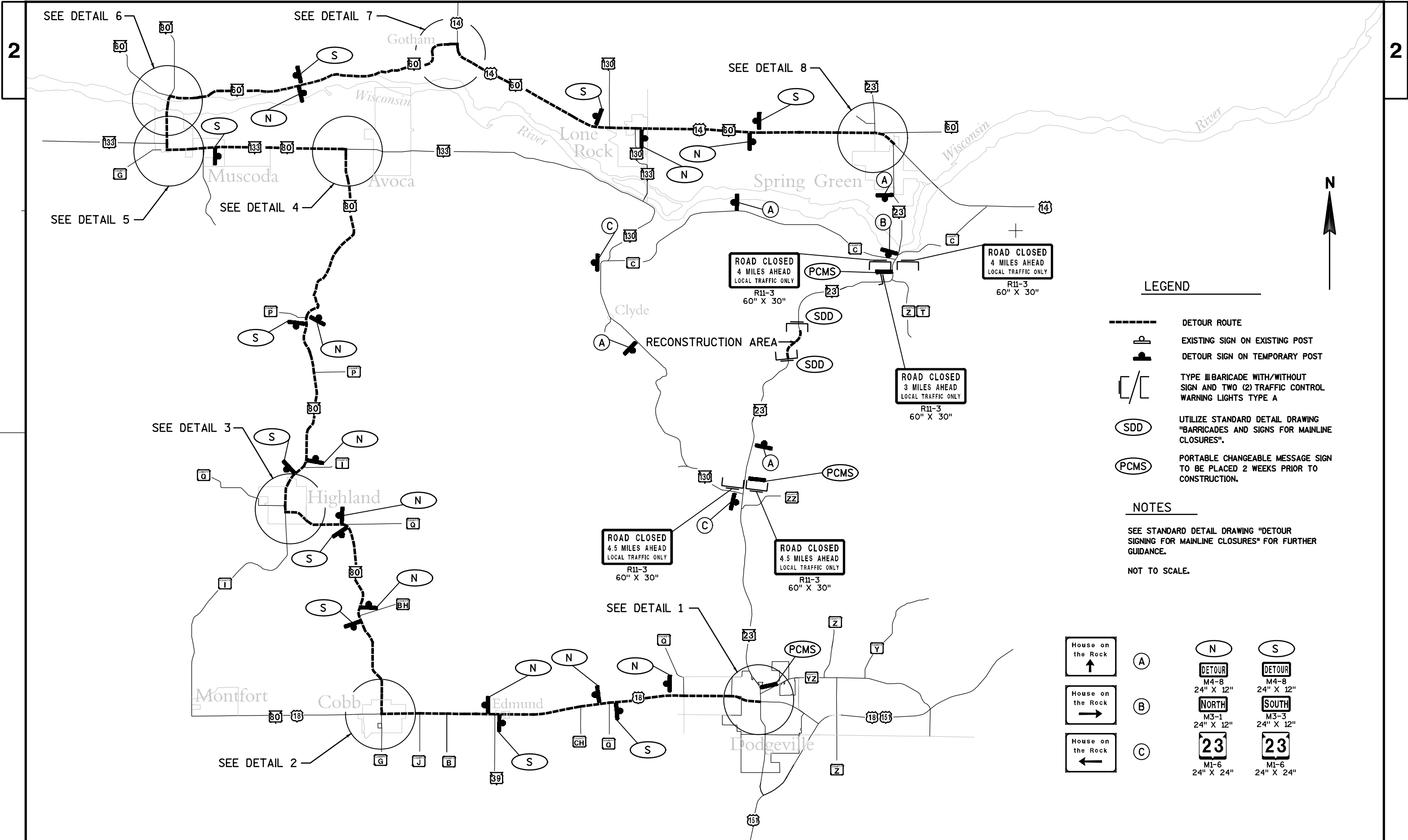








PROJECT NO:5255-01-60	HWY:STH 23	COUNTY:IOWA	PERMANENT SIGNING	SHEET	E
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LEGEND

- DETOUR ROUTE
- EXISTING SIGN ON EXISTING POST
- DETOUR SIGN ON TEMPORARY POST
- TYPE III BARRICADE WITH/WITHOUT SIGN AND TWO (2) TRAFFIC CONTROL WARNING LIGHTS TYPE A
- UTILIZE STANDARD DETAIL DRAWING "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".
- PORTABLE CHANGEABLE MESSAGE SIGN TO BE PLACED 2 WEEKS PRIOR TO CONSTRUCTION.

NOTES

SEE STANDARD DETAIL DRAWING "DETOUR SIGNING FOR MAINLINE CLOSURES" FOR FURTHER GUIDANCE.
NOT TO SCALE.

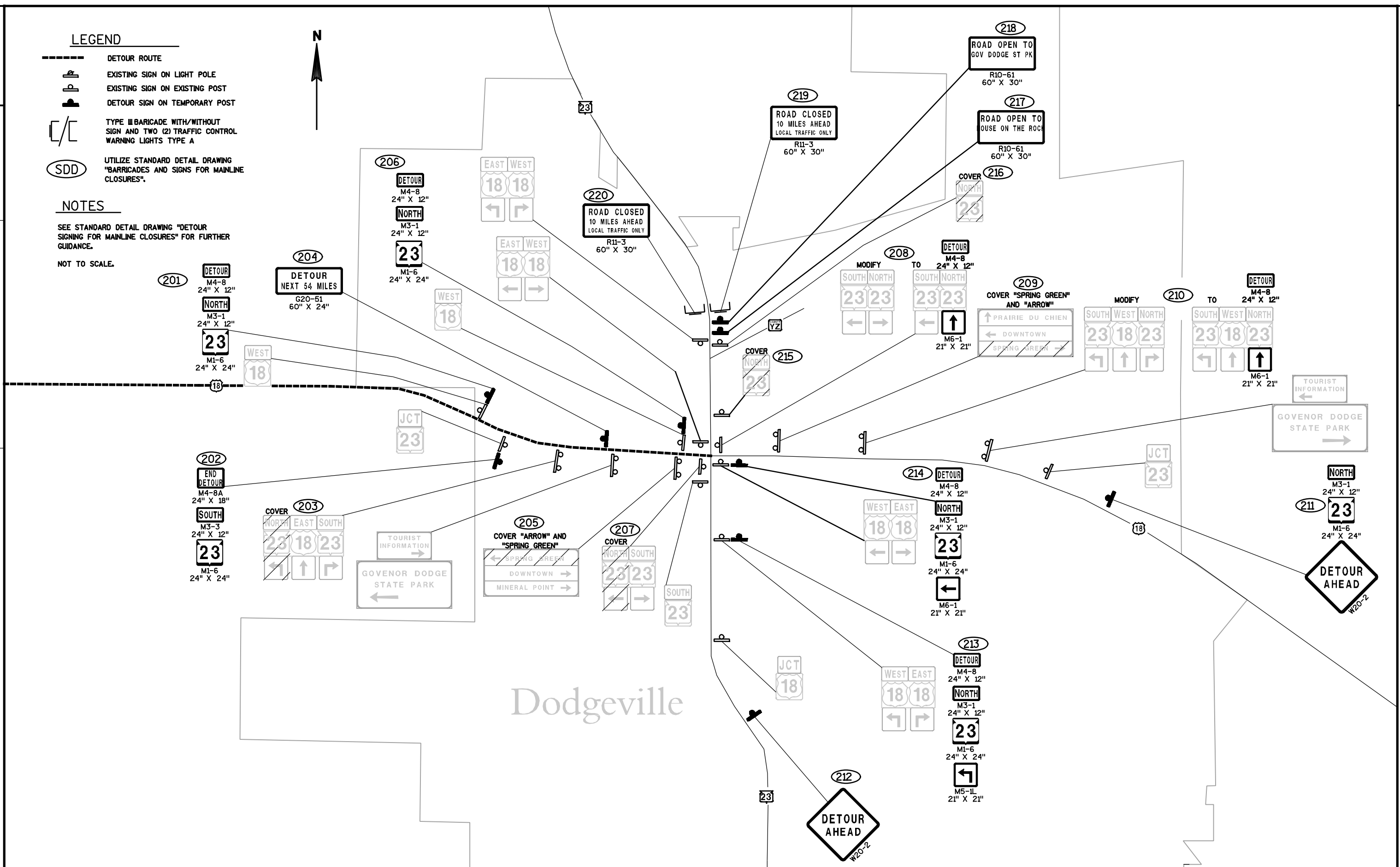
House on the Rock ↑	A	N DETOUR M4-8 24" X 12"	S DETOUR M4-8 24" X 12"
House on the Rock →	B	NORTH M3-1 24" X 12"	SOUTH M3-3 24" X 12"
House on the Rock ←	C	23 M1-6 24" X 24"	23 M1-6 24" X 24"

LEGEND

- DETOUR ROUTE
- EXISTING SIGN ON LIGHT POLE
- EXISTING SIGN ON EXISTING POST
- DETOUR SIGN ON TEMPORARY POST
- TYPE III BARRICADE WITH/WITHOUT SIGN AND TWO (2) TRAFFIC CONTROL WARNING LIGHTS TYPE A
- SDD
UTILIZE STANDARD DETAIL DRAWING "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".

NOTES

SEE STANDARD DETAIL DRAWING "DETOUR SIGNING FOR MAINLINE CLOSURES" FOR FURTHER GUIDANCE.
NOT TO SCALE.



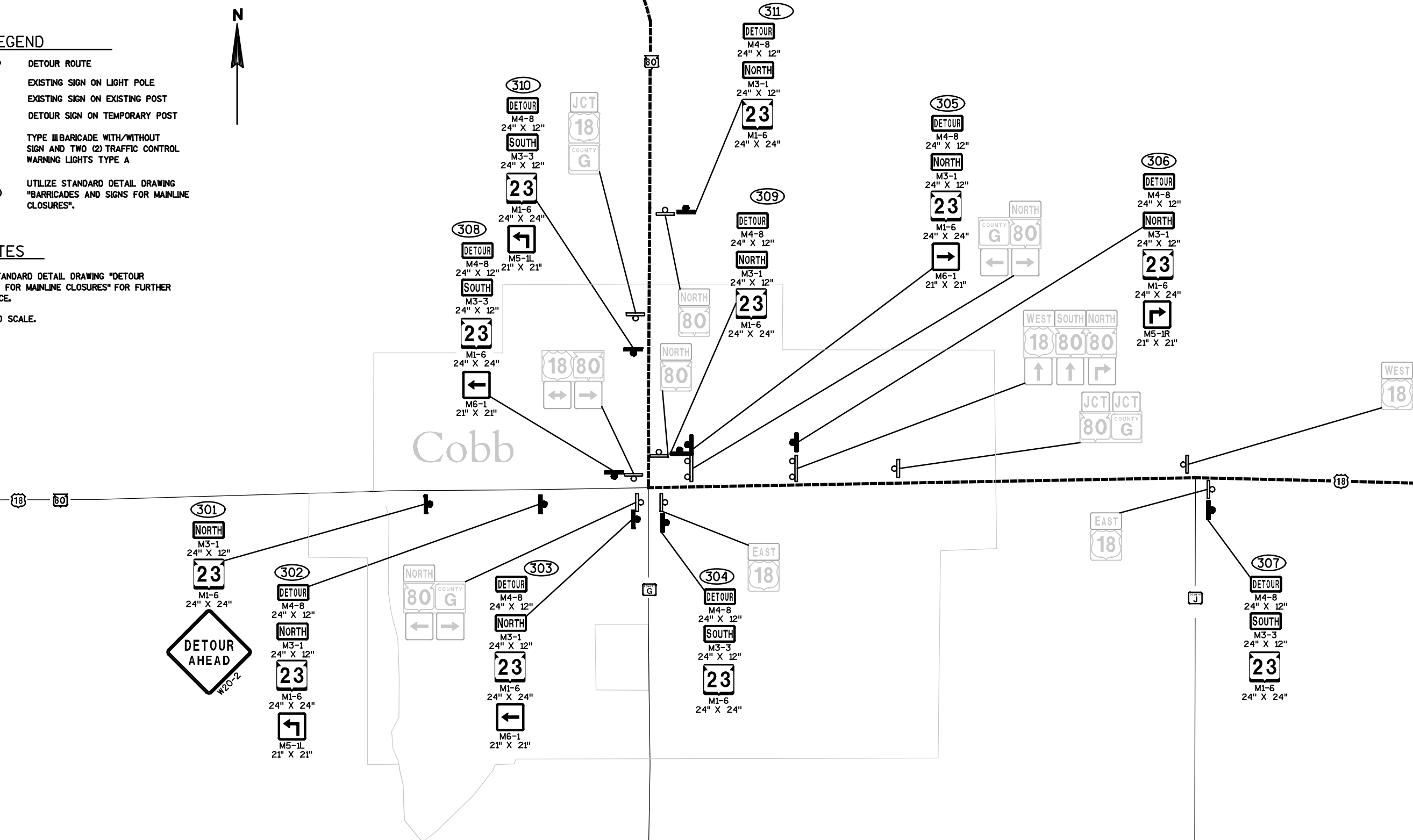
LEGEND

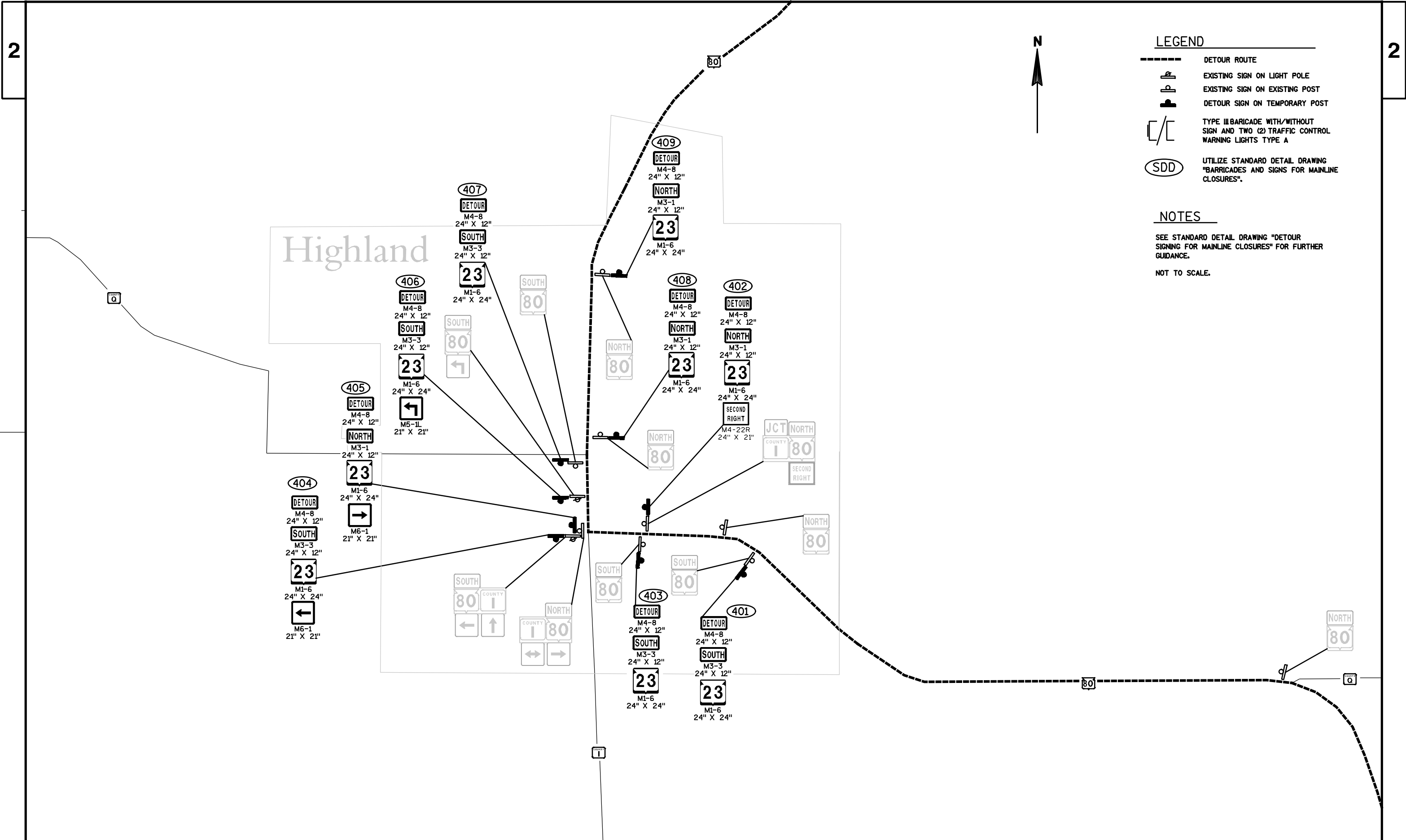
- DETOUR ROUTE
-  EXISTING SIGN ON LIGHT POLE
-  EXISTING SIGN ON EXISTING POST
-  DETOUR SIGN ON TEMPORARY POST
-  TYPE III BARRICADE WITH/WITHOUT SIGN AND TWO (2) TRAFFIC CONTROL WARNING LIGHTS TYPE A
-  UTILIZE STANDARD DETAIL DRAWING "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".

NOTES

SEE STANDARD DETAIL DRAWING "DETOUR SIGNING FOR MAINLINE CLOSURES" FOR FURTHER GUIDANCE.

NOT TO SCALE.





LEGEND

DETOUR ROUTE

EXISTING SIGN ON LIGHT POLE

EXISTING SIGN ON EXISTING POST

DETOUR SIGN ON TEMPORARY POST

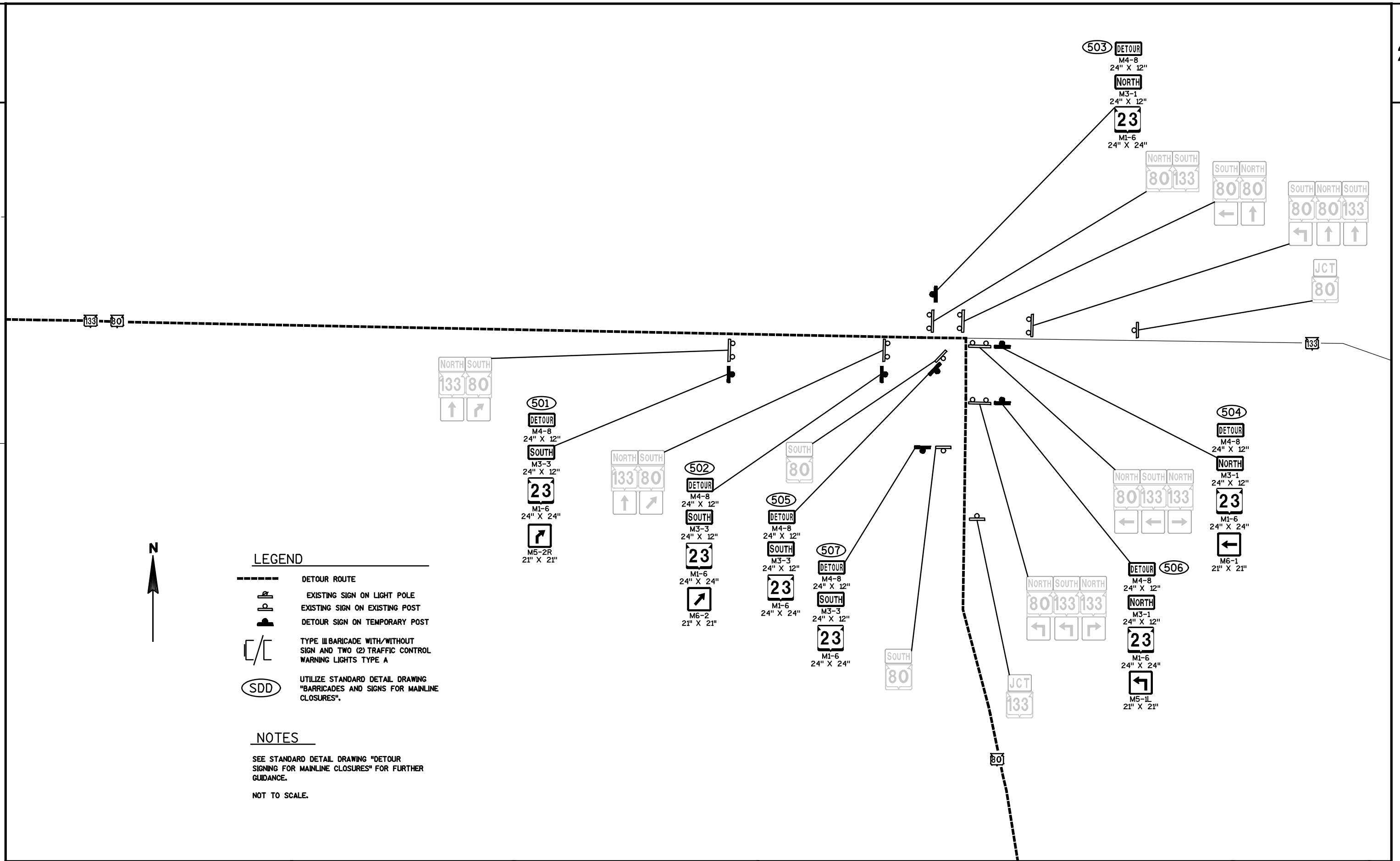
TYPE III BARRICADE WITH/WITHOUT SIGN AND TWO (2) TRAFFIC CONTROL WARNING LIGHTS TYPE A

UTILIZE STANDARD DETAIL DRAWING "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".

NOTES

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NOT TO SCALE.



LEGEND

- DETOUR ROUTE
- EXISTING SIGN ON LIGHT POLE
- EXISTING SIGN ON EXISTING POST
- DETOUR SIGN ON TEMPORARY POST
- TYPE III BARRICADE WITH/WITHOUT SIGN AND TWO (2) TRAFFIC CONTROL WARNING LIGHTS TYPE A
- UTILIZE STANDARD DETAIL DRAWING "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".

NOTES

SEE STANDARD DETAIL DRAWING "DETOUR SIGNING FOR MAINLINE CLOSURES" FOR FURTHER GUIDANCE.
NOT TO SCALE.



Wisconsin

River

Muscoda

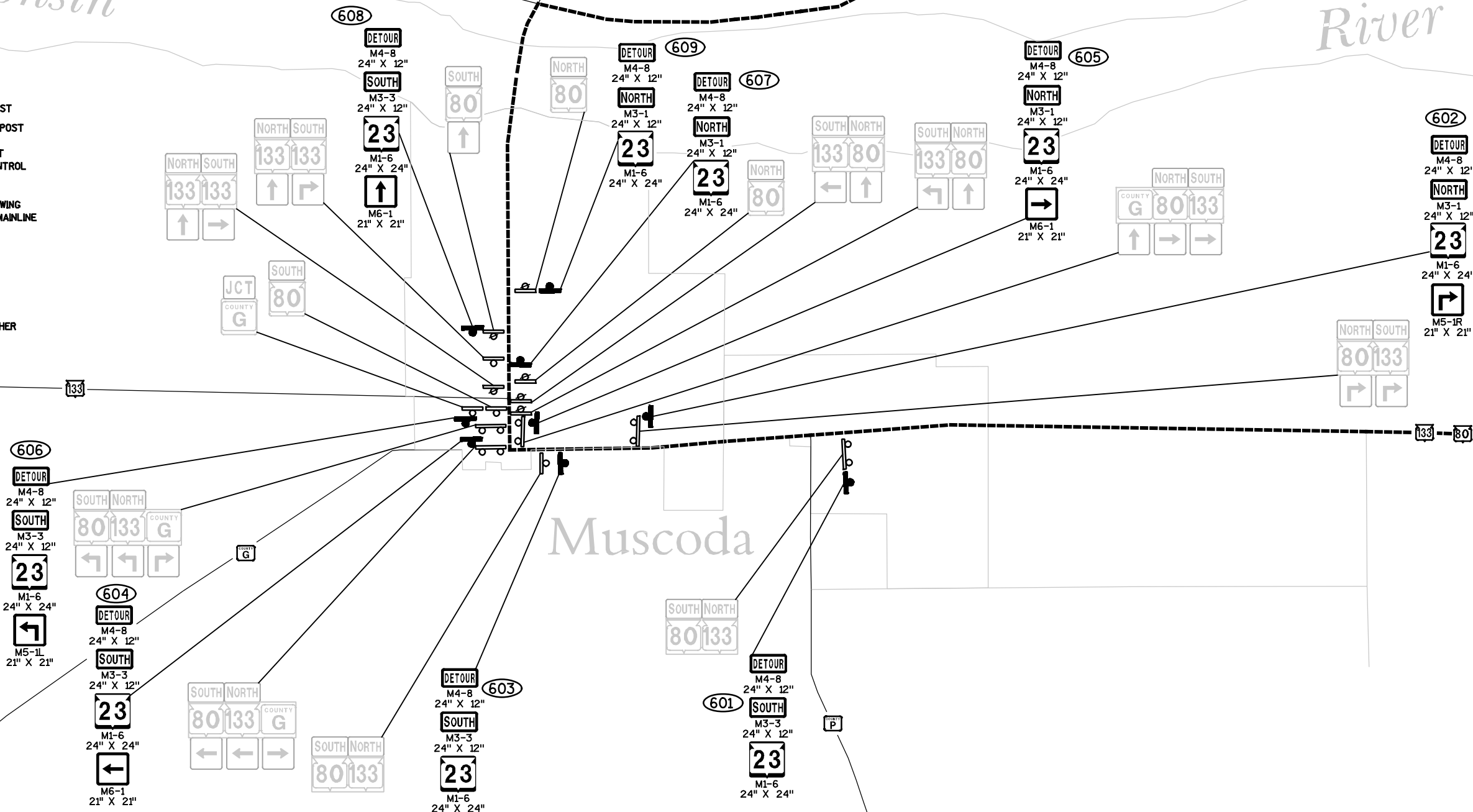
LEGEND

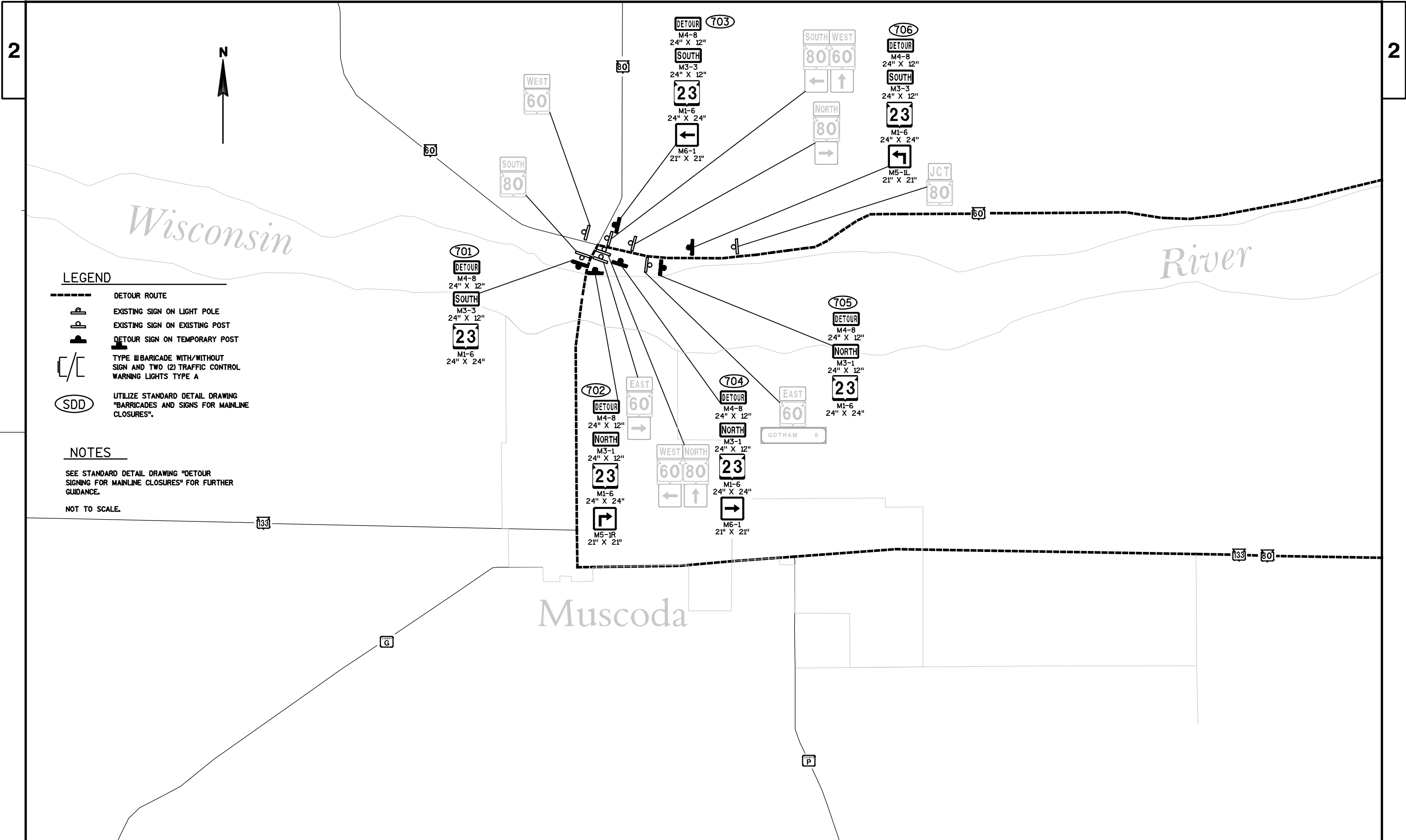
- DETOUR ROUTE
- EXISTING SIGN ON LIGHT POLE
- EXISTING SIGN ON EXISTING POST
- DETOUR SIGN ON TEMPORARY POST
- TYPE III BARRICADE WITH/WITHOUT SIGN AND TWO (2) TRAFFIC CONTROL WARNING LIGHTS TYPE A
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NOTES

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NOT TO SCALE.

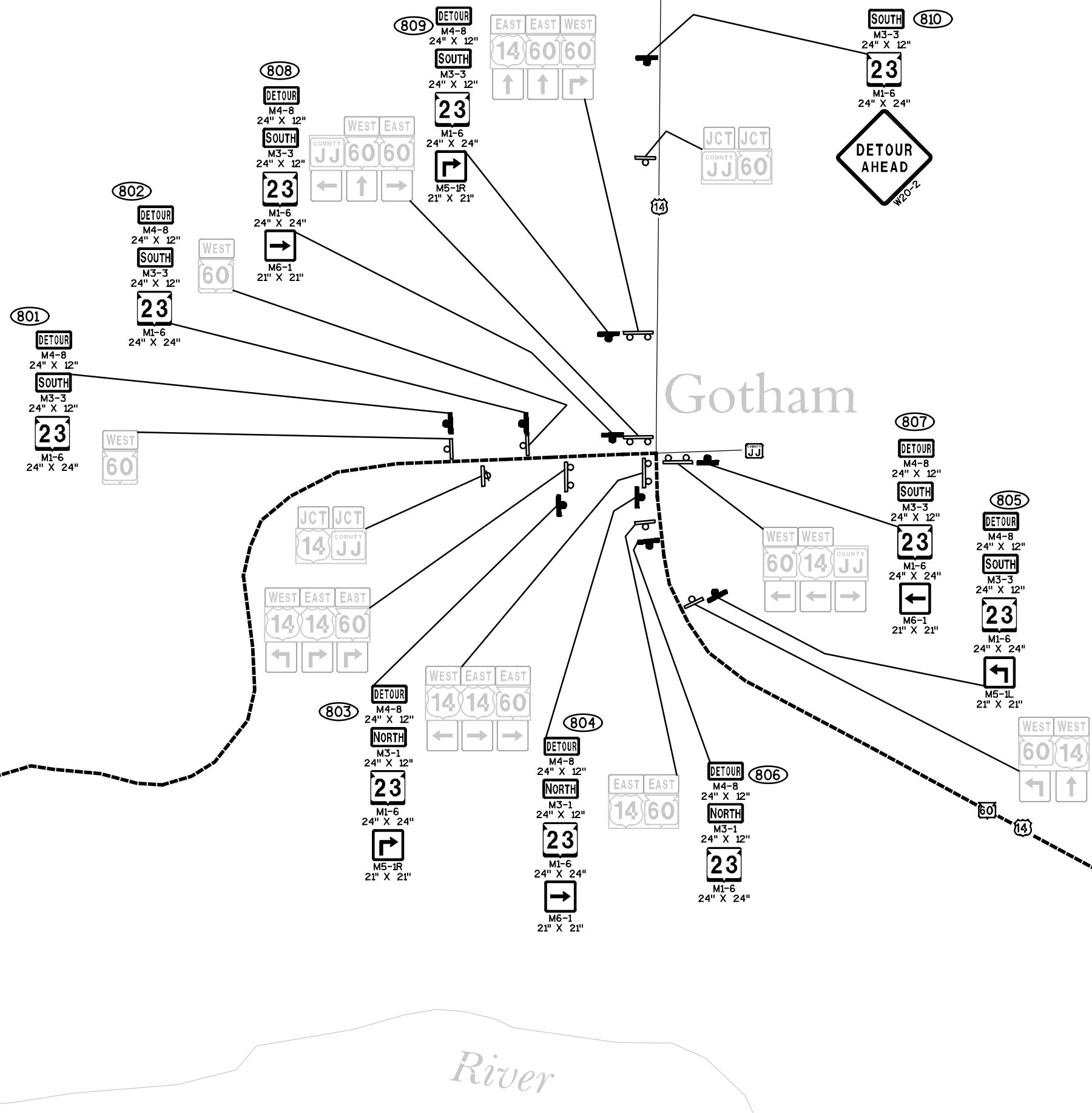


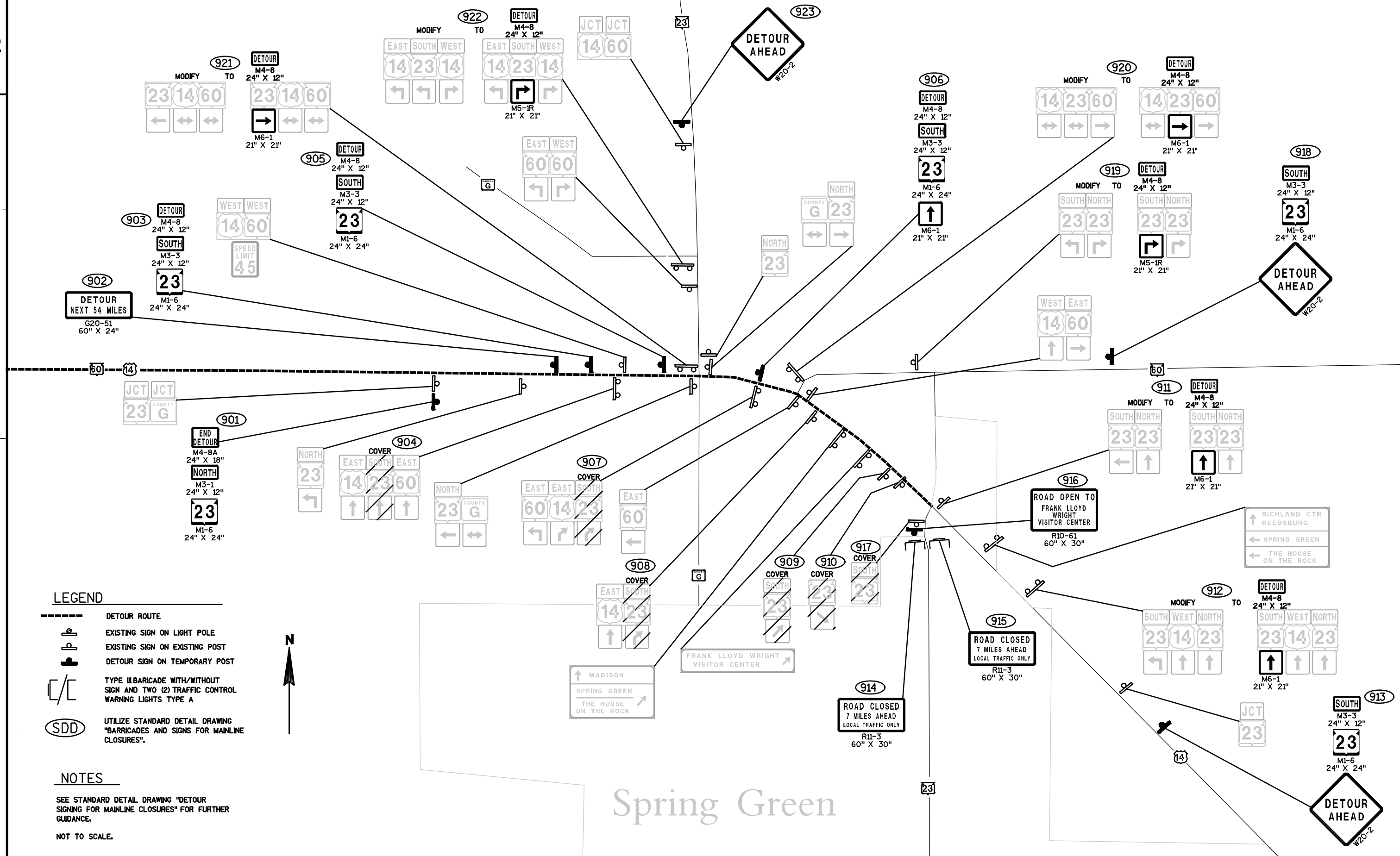


	EXISTING SIGN ON LIGHT POLE
	EXISTING SIGN ON EXISTING POST
	DETOUR SIGN ON TEMPORARY POST
	TYPE III BARRICADE WITH/WITHOUT SIGN AND TWO (2) TRAFFIC CONTROL WARNING LIGHTS TYPE A
	UTILIZE STANDARD DETAIL DRAWING "BARRICADES AND SIGNS FOR MAINLINE CLOSURES".

SEE STANDARD DETAIL DRAWING "DETOUR
SIGNING FOR MAINLINE CLOSURES" FOR FURTHER
GUIDANCE.

NOT TO SCALE.





DATE 08NOV12		E S T I M A T E O F Q U A N T I T I E S			
LINE		5255-01-60			
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	204.0115	REMOVING ASPHALTIC SURFACE BUTT JOINTS	SY	1,520.000	1,520.000
0020	204.0120	REMOVING ASPHALTIC SURFACE MILLING	SY	128,670.000	128,670.000
0030	204.0150	REMOVING CURB & GUTTER	LF	750.000	750.000
0040	205.0100	EXCAVATION COMMON	CY	17,101.000	17,101.000
0050	213.0100	FINISHING ROADWAY (PROJECT) 01.	EACH	1.000	1.000
5255-01-60					
0060	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	1,215.000	1,215.000
0070	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	11,100.000	11,100.000
0080	310.0110	BASE AGGREGATE OPEN GRADED	TON	100.000	100.000
0090	312.0110	SELECT CRUSHED MATERIAL	TON	27,600.000	27,600.000
0100	455.0105	ASPHALTIC MATERIAL PG58-28	TON	1,210.000	1,210.000
0110	455.0605	TACK COAT	GAL	3,680.000	3,680.000
0120	460.1101	HMA PAVEMENT TYPE E-1	TON	20,115.000	20,115.000
0130	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	16,088.000	16,088.000
0140	465.0315	ASPHALTIC FLUMES	SY	20.000	20.000
0150	601.0553	CONCRETE CURB AND GUTTER 4-INCH SLOPED	LF	745.000	745.000
36-INCH TYPE D					
0160	611.0430	RECONSTRUCTING INLETS	EACH	3.000	3.000
0170	611.0627	INLET COVERS TYPE HM	EACH	3.000	3.000
0180	611.8115	ADJUSTING INLET COVERS	EACH	2.000	2.000
0190	612.0106	PIPE UNDERDRAIN 6-INCH	LF	1,255.000	1,255.000
0200	614.0010	BARRIER SYSTEM GRADING SHAPING FINISHING	EACH	6.000	6.000
0210	614.0920	SALVAGED RAIL	LF	1,650.000	1,650.000
0220	614.2300	MGS GUARDRAIL 3	LF	875.000	875.000
0230	614.2330	MGS GUARDRAIL 3 K	LF	890.000	890.000
0240	614.2610	MGS GUARDRAIL TERMINAL EAT	EACH	6.000	6.000
0250	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS	EACH	1.000	1.000
(PROJECT) 01. 5255-01-60					
0260	619.1000	MOBILIZATION	EACH	1.000	1.000
0270	625.0500	SALVAGED TOPSOIL	SY	8,015.000	8,015.000
0280	627.0200	MULCHING	SY	15,700.000	15,700.000
0290	628.1504	SILT FENCE	LF	3,700.000	3,700.000
0300	628.1520	SILT FENCE MAINTENANCE	LF	7,400.000	7,400.000
0310	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	1.000	1.000
0320	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	2.000	2.000
0330	628.2023	EROSION MAT CLASS II TYPE B	SY	600.000	600.000
0340	628.7005	INLET PROTECTION TYPE A	EACH	5.000	5.000
0350	628.7015	INLET PROTECTION TYPE C	EACH	3.000	3.000
0360	628.7504	TEMPORARY DITCH CHECKS	LF	250.000	250.000
0370	628.7555	CULVERT PIPE CHECKS	EACH	18.000	18.000
0380	629.0210	FERTILIZER TYPE B	CWT	1.000	1.000
0390	630.0120	SEEDING MIXTURE NO. 20	LB	500.000	500.000
0400	630.0200	SEEDING TEMPORARY	LB	500.000	500.000
0410	633.5200	MARKERS CULVERT END	EACH	53.000	53.000
0420	634.0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	7.000	7.000
0430	634.0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	71.000	71.000
0440	634.0618	POSTS WOOD 4X6-INCH X 18-FT	EACH	8.000	8.000
0450	637.0202	SIGNS REFLECTIVE TYPE II	SF	691.250	691.250
0460	638.2602	REMOVING SIGNS TYPE II	EACH	76.000	76.000
0470	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	68.000	68.000
0480	642.5201	FIELD OFFICE TYPE C	EACH	1.000	1.000
0490	643.0100	TRAFFIC CONTROL (PROJECT) 01. 5255-01-60	EACH	1.000	1.000
0500	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	836.000	836.000
0510	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	1,320.000	1,320.000

DATE 08NOV12		E S T I M A T E O F Q U A N T I T I E S			
LINE		5255-01-60			
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0520	643.0900	TRAFFIC CONTROL SIGNS	DAY	176.000	176.000
0530	643.0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	28.000	28.000
0540	643.1050	TRAFFIC CONTROL SIGNS PCMS	DAY	42.000	42.000
0550	643.2000	TRAFFIC CONTROL DETOUR (PROJECT) 01.	EACH	1.000	1.000
5255-01-60					
0560	643.3000	TRAFFIC CONTROL DETOUR SIGNS	DAY	14,344.000	14,344.000
0570	645.0112	GEOTEXTILE FABRIC TYPE DF SCHEDULE B	SY	560.000	560.000
0580	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	63,009.000	63,009.000
0590	646.0126	PAVEMENT MARKING EPOXY 8-INCH	LF	450.000	450.000
0600	646.0406	PAVEMENT MARKING SAME DAY EPOXY 4-INCH	LF	54,766.000	54,766.000
0610	647.0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	LF	50.000	50.000
0620	648.0100	LOCATING NO-PASSING ZONES	MI	5.900	5.900
0630	649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	13,200.000	13,200.000
0640	650.4500	CONSTRUCTION STAKING SUBGRADE	LF	3,300.000	3,300.000
0650	650.5000	CONSTRUCTION STAKING BASE	LF	3,300.000	3,300.000
0660	650.5500	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	LF	750.000	750.000
0670	650.8000	CONSTRUCTION STAKING RESURFACING REFERENCE	LF	28,200.000	28,200.000
0680	690.0150	SAWING ASPHALT	LF	765.000	765.000
0690	SPV.0090	SPECIAL 01. CULVERT PIPE LINERS 36-INCH SPECIAL	LF	78.000	78.000

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

204.0115
REMOVING ASPHALTIC SURFACE BUTT JOINTS

CATEGORY	STATION	LOCATION	(SY)
0010	267+00	MAINLINE	98
0010	582+00	MAINLINE	76
0010	266+30	CTH ZZ	133
0010	287+20	STH 130	133
0010	351+30	NELSON RD	89
0010	448+00	HOUSE ON THE ROCK RD	357
0010	503+00	SCENIC OVERLOOK	134
0010	508+80	SCENIC OVERLOOK	133
0010	547+90	UPPER WYOMING RD	133
0010	551+40	PERCUSSION ROCK RD	78
0010	579+20	LOWER WYOMING RD	156
CATEGORY 0010 TOTAL			1520

204.0120
REMOVING ASPHALTIC SURFACE MILLING

CATEGORY	STATION	-	STATION	LOCATION	(SY)
0010	267+00.00	-	284+33.00	MAINLINE, LT & RT	8471
0010	284+33.00	-	290+00.00	MAINLINE, LT & RT	3402
0010	290+00.00	-	310+00.00	MAINLINE, LT & RT	9778
0010	310+00.00	-	328+00.00	MAINLINE, LT & RT	8800
0010	328+00.00	-	398+00.00	MAINLINE, LT & RT	26445
0010	398+00.00	-	446+00.00	MAINLINE, LT & RT	23467
0010	446+00.00	-	452+00.00	MAINLINE, LT & RT	3600
0010	452+00.00	-	498+50.00	MAINLINE, LT & RT	22734
0010	498+50.00	-	504+00.00	MAINLINE, LT & RT	3300
0010	504+00.00	-	509+86.81	MAINLINE, LT & RT	2869
0010	542+85.65	-	545+45.00	MAINLINE, LT & RT	1297
0010	545+45.00	-	548+45.00	MAINLINE, LT & RT	1133
0010	548+45.00	-	555+45.00	MAINLINE, LT & RT	3344
0010	555+45.00	-	556+45.00	MAINLINE, LT & RT	378
0010	556+45.00	-	568+45.00	MAINLINE, LT & RT	4533
0010	568+45.00	-	582+00.00	MAINLINE, LT & RT	5119
CATEGORY 0010 TOTAL					128,670

204.0150
REMOVING CURB AND GUTTER

CATEGORY	STATION	-	STATION	LOCATION	(LF)
0020	133+29.50	-	137+14.15	MAINLINE, LT	386
0020	142+03.42	-	145+65.41	MAINLINE, LT	364
CATEGORY 0020 TOTAL					750
614.0920 SALVAGED RAIL					
CATEGORY	STATION	-	STATION	LOCATION	(L.F.)
0010	280+385.81	-	287+03.09	MAINLINE, LT	666
0010	282+80.00	-	285+95.60	MAINLINE, LT	317
0020	112+88.90	-	116+56.70	MAINLINE, LT	370
0020	118+20.54	-	121+16.09	MAINLINE, LT	297
CATEGORY 0010 TOTAL					983
CATEGORY 0020 TOTAL					667

EARTHWORK SUMMARY

CATEGORY	STATION	-	STATION	LOCATION	205.0100 EXCAVATION COMMON (CY)	FILL (CY)	WASTE (CY)
0020	113+00	-	146+00	MAINLINE, LT & RT	17,101	224	16,832
CATEGORY 0020 TOTALS					17,101	224	16,832
SHRINKAGE FACTOR = 20%							

614.0010
BARRIER SYSTEM GRADING SHAPING FINISHING

CATEGORY	STATION	LOCATION	(EACH)	FILL * (CY)	TOPSOIL * (SY)	MULCH * (SY)	SEEDING NO. 20 * (LB)	SEEDING TEMPORARY * (LB)	FERTILIZER TYPE B * (CWT)
0010	279+72	MAINLINE, RT	1	30	75	75	2	2	0.06
0010	282+62	MAINLINE, LT	1	30	75	75	2	2	0.06
0010	287+03	MAINLINE, RT	1	30	75	75	2	2	0.06
0010	286+31	MAINLINE, LT	1	30	75	75	2	2	0.06
0020	112+67	MAINLINE, RT	1	30	75	75	2	2	0.06
0020	122+48	MAINLINE, RT	1	30	75	75	2	2	0.06
CATEGORY 0010 TOTALS			4	120	300	300	8	8	0.24
CATEGORY 0020 TOTALS			2	60	150	150	4	4	0.12

* FOR INFORMATIONAL PURPOSES ONLY.
QUANTITIES ARE APPROXIMATE

305.0110
BASE AGGREGATE DENSE 3/4-INCH

CATEGORY	STATION	-	STATION	LOCATION	(TON)
0010	267+00.00	-	284+33.00	MAINLINE, LT & RT	90
0010	284+33.00	-	290+00.00	MAINLINE, LT & RT	21
0010	290+00.00	-	310+00.00	MAINLINE, LT & RT	74
0010	310+00.00	-	328+00.00	MAINLINE, LT & RT	67
0010	328+00.00	-	398+00.00	MAINLINE, LT & RT	260
0010	398+00.00	-	446+00.00	MAINLINE, LT & RT	179
0010	446+00.00	-	452+00.00	MAINLINE, LT & RT	22
0010	452+00.00	-	498+50.00	MAINLINE, LT & RT	172
0010	498+50.00	-	504+00.00	MAINLINE, LT & RT	20
0010	504+00.00	-	509+86.81	MAINLINE, LT & RT	22
0020	113+00.00	-	133+29.50	MAINLINE, LT & RT	106
0020	133+29.50	-	134+50.00	MAINLINE, RT	2
0020	134+50.00	-	137+14.15	MAINLINE, RT	5
0020	137+14.15	-	142+03.42	MAINLINE, LT & RT	19
0020	142+03.42	-	145+65.41	MAINLINE, LT & RT	7
0020	145+65.41	-	146+00.00	MAINLINE, LT & RT	1
0010	542+85.65	-	545+45.00	MAINLINE, LT & RT	13
0010	545+45.00	-	548+45.00	MAINLINE, LT & RT	11
0010	548+45.00	-	555+45.00	MAINLINE, LT & RT	26
0010	555+45.00	-	556+45.00	MAINLINE, LT & RT	4
0010	556+45.00	-	568+45.00	MAINLINE, LT & RT	44
0010	568+45.00	-	582+00.00	MAINLINE, LT & RT	50
CATEGORY 0010 TOTAL					1075
CATEGORY 0020 TOTAL					140

305.0120
BASE AGGREGATE DENSE 1 1/4-INCH

CATEGORY	STATION	-	STATION	LOCATION	(TON)
0020	113+00.00	-	133+29.50	MAINLINE, LT & RT	7290
0020	133+29.50	-	134+50.00	MAINLINE, LT & RT	347
0020	134+50.00	-	137+14.15	MAINLINE, LT & RT	780
0020	137+14.15	-	142+03.42	MAINLINE, LT & RT	1507
0020	142+03.42	-	145+65.41	MAINLINE, LT & RT	1069
0020	145+65.41	-	146+00.00	MAINLINE, LT & RT	107
CATEGORY 0020 TOTAL					11,100

SPV.0090.01
CULVERT PIPE LINER 36-INCH SPECIAL

CATEGORY	STATION	LOCATION	(LF)
0010	281+30	MAINLINE	78
CATEGORY 0010 TOTAL			78

465.0315
ASPHALTIC FUMES

CATEGORY	STATION	LOCATION	(SY)
0020	137+14.25	MAINLINE, LT	13
0020	145+65.41	MAINLINE, LT	7
CATEGORY 0020 TOTAL			20

312.0115
SELECT CRUSHED MATERIAL

CATEGORY	STATION	-	STATION	LOCATION	(TON)
0020	113+00.00	-	133+29.50	MAINLINE, LT & RT	17441
0020	133+29.50	-	134+50.00	MAINLINE, LT & RT	822
0020	134+50.00	-	137+14.15	MAINLINE, LT & RT	1843
0020	137+14.15	-	142+03.42	MAINLINE, LT & RT	3643
0020	142+03.42	-	145+65.41	MAINLINE, LT & RT	2593
0020	145+65.41	-	146+00.00	MAINLINE, LT & RT	258
0020	113+00.00	-	146+00.00	UNDISTRIBUTED	1000
CATEGORY 0020 TOTAL					27,600

STATE PROJECT NO: 5255-01-60

HWY: STH 23

COUNTY: IOWA

MISCELLANEOUS QUANTITIES

SHEET NO:

E

FILE NAME : _____

PLOT DATE : _____

PLOT BY : _____

PLOT NAME : _____

ORG DATE : _____

ORIGINATOR : DIST _

PLOT SCALE : 1:1

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

ASPHALTIC ITEMS

				455.0105	455.0605	460.1101
				ASPHALTIC MATERIAL PG58-28 (TON)	TACK COAT (GAL)	HMA PAVEMENT TYPE E-1 (TON)
CATEGORY	STATION	- STATION	LOCATION			
0010	267+00.00	- 284+33.00	MAINLINE, LT & RT	59	212	974
0010	284+33.00	- 290+00.00	MAINLINE, LT & RT	24	85	391
0010	290+00.00	- 310+00.00	MAINLINE, LT & RT	68	244	1124
0010	310+00.00	- 328+00.00	MAINLINE, LT & RT	61	220	1012
0010	328+00.00	- 398+00.00	MAINLINE, LT & RT	182	660	3043
0010	398+00.00	- 446+00.00	MAINLINE, LT & RT	162	587	2700
0010	446+00.00	- 452+00.00	MAINLINE, LT & RT	25	90	414
0010	452+00.00	- 498+50.00	MAINLINE, LT & RT	157	568	2615
0010	498+50.00	- 504+00.00	MAINLINE, LT & RT	23	83	380
0010	504+00.00	- 509+86.81	MAINLINE, LT & RT	20	72	330
0020	113+00.00	- 133+29.50	MAINLINE, LT & RT	212	305	3528
0020	133+29.50	- 134+50.00	MAINLINE, LT & RT	10	14	162
0020	134+50.00	- 137+14.15	MAINLINE, LT & RT	22	32	365
0020	137+14.15	- 142+03.42	MAINLINE, LT & RT	43	62	710
0020	142+03.42	- 145+65.41	MAINLINE, LT & RT	30	43	500
0020	145+65.41	- 146+00.00	MAINLINE, LT & RT	3	4	50
0010	542+85.65	- 545+45.00	MAINLINE, LT & RT	9	32	149
0010	545+45.00	- 548+45.00	MAINLINE, LT & RT	8	28	130
0010	548+45.00	- 555+45.00	MAINLINE, LT & RT	23	84	385
0010	555+45.00	- 556+45.00	MAINLINE, LT & RT	3	9	43
0010	556+45.00	- 568+45.00	MAINLINE, LT & RT	31	113	521
0010	568+45.00	- 582+00.00	MAINLINE, LT & RT	35	128	589
CATEGORY 0010 TOTALS				890	3215	14,800
CATEGORY 0020 TOTALS				320	460	5315

614.2300

MGS GUARDRAIL 3K

CATEGORY	STATION	- STATION	LOCATION	(LF)
0010	280+25.00	- 286+50.00	MAINLINE, RT	626
0010	283+15.00	- 285+77.50	MAINLINE, LT	264
0020	113+20.00	- 121+95.00	MAINLINE, LT	875
CATEGORY 0010 TOTALS				890
CATEGORY 0020 TOTALS				875

INLET PROTECTION

			628.7005	628.7015
CATEGORY	STATION	LOCATION	TYPE A (EACH)	TYPE C (EACH)
0020	135+44	MAINLINE, LT	1	1
0020	142+53	MAINLINE, LT	2	1
0020	145+54	MAINLINE, LT	2	1
CATEGORY 0020 TOTALS			5	3

601.0553

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

CATEGORY	STATION	- STATION	LOCATION	(LF)
0020	133+29.50	- 137+14.15	MAINLINE, LT	384
0020	142+03.42	- 145+65.41	MAINLINE, LT	361
CATEGORY 0020 TOTAL				745

611.0627

INLET COVERS TYPES HM

CATEGORY	STATION	LOCATION	(EACH)
0020	135+44	MAINLINE, LT	1
0020	142+53	MAINLINE, LT	1
0020	145+54	MAINLINE, LT	1
CATEGORY 0020 TOTAL			3

PIPE UNDERDRAIN

				612.0106 PIPE UNDERDRAIN 6-INCH (LF)	310.0110 BASE AGGREGATE OPEN GRADED (TON)	645.0112 GEOTEXTILE FABRIC TYPE DF SCHEDULE B (SY)
CATEGORY	STATION	- STATION	LOCATION			
0020	133+00.00	- 145+54.00	MAINLINE, LT	1255	100	560
CATEGORY 0020 TOTALS				1255	100	560

614.2610

MGS GUARDRAIL TERMINAL EAT

CATEGORY	STATION	- STATION	LOCATION	(EACH)
0010	279+71.88	- 280+25.00	MAINLINE, RT	1
0010	282+61.88	- 283+15.00	MAINLINE, LT	1
0020	112+66.88	- 113+20.00	MAINLINE, LT	1
0010	286+50.00	- 287+03.12	MAINLINE, RT	1
0010	285+77.50	- 286+30.62	MAINLINE, LT	1
0020	121+95.00	- 122+48.12	MAINLINE, LT	1
CATEGORY 0010 TOTAL				4
CATEGORY 0020 TOTAL				2

FINISHING ITEMS

				625.0500	627.0200	630.0200	630.0120	629.0210
				SALVAGED TOPSOIL (SY)	MULCHING (SY)	SEEDING TEMPORARY (LB)	SEEDING MIXTURE NO. 20 (LB)	FERTILIZER TYPE B (CWT)
CATEGORY	STATION	- STATION	LOCATION					
0020	113+00	- 146+00	MAINLINE, LT & RT	8015	14,945	407	407	0.94
0020	--	- --	UNDISTRIBUTED	0	755	93	93	0.1
CATEGORY 0020 TOTALS				8015	15,700	500	500	1

611.0430

RECONSTRUCTING INLETS

CATEGORY	STATION	LOCATION	(EACH)
0020	135+44	MAINLINE, LT	1
0020	142+53	MAINLINE, LT	1
0020	145+54	MAINLINE, LT	1
CATEGORY 0020 TOTAL			3

611.8115

ADJUSTING INLET COVERS

CATEGORY	STATION	LOCATION	(EACH)
0020	142+53	MAINLINE, LT	1
0020	145+54	MAINLINE, LT	1
CATEGORY 0020 TOTAL			2

STATE PROJECT NO: 5255-01-60

HWY: STH 23

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MISCELLANEOUS QUANTITIES

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PLOT SCALE : 1:1

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

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EROSION CONTROL

				628.7504	628.1505	628.1520	628.2023	628.7555
				TEMPORARY DITCH CHECKS (LF)	SILT FENCE (LF)	SILT FENCE MAINTENANCE (LF)	EROSION MAT CLASS II TYPE B (SY)	CULVERT PIPE CHECKS (EACH)
CATEGORY	STATION	-	STATION	LOCATION				
0020	113+00	-	116+60	MAINLINE, LT	0	360	720	0
0020	118+25	-	121+25	MAINLINE, LT	0	300	600	0
0020	123+75	-	146+00	MAINLINE, RT	0	2225	4450	0
0020	137+75	-	141+00	MAINLINE, LT	0	325	650	0
0020	--	-	--	UNDISTRIBUTED	250	490	980	18
CATEGORY 0020 TOTALS				250	3700	7400	600	18

646.0126
PAVEMENT MARKING EPOXY 8-INCH

CATEGORY	STATION	-	STATION	LOCATION	(LF)
0010	287+20	-	289+20	MAINLINE, LT	200
0010	500+50	-	503+00	MAINLINE, RT	250
CATEGORY 0010 TOTAL					450

647.0566
PAVEMENT MARKING STOP LINE EPOXY 18-INCH

CATEGORY	STATION	LOCATION	(LF)
0010	503+50	MAINLINE, RT	25
0010	508+25	MAINLINE, LT	25
CATEGORY 0010 TOTAL			50

646.0406
PAVEMENT MARKING SAME DAY EPOXY 4-INCH

CATEGORY	STATION	-	STATION	LOCATION	DASHED CL (YELLOW) (LF)	SOLID CL (YELLOW) (LF)	DASHED LANE LINE (WHITE) (LF)
0010	267+00.00	-	295+50.00	MAINLINE	0	5700	713
0010	295+50.00	-	312+00.00	MAINLINE	412	1650	413
0010	312+00.00	-	326+00.00	MAINLINE	0	2800	350
0010	326+00.00	-	331+50.00	MAINLINE	0	1100	0
0010	331+50.00	-	333+50.00	MAINLINE	50	200	0
0010	333+50.00	-	343+50.00	MAINLINE	250	0	0
0010	343+50.00	-	353+00.00	MAINLINE	238	1900	0
0010	353+00.00	-	405+00.00	MAINLINE	0	0	0
0010	405+00.00	-	447+50.00	MAINLINE	0	8500	1063
0010	447+50.00	-	451+00.00	MAINLINE	0	700	175
0010	451+00.00	-	509+86.81	MAINLINE	0	11,777	1471
0020	113+00.00	-	144+00.00	MAINLINE	0	6200	775
0020	144+00.00	-	146+00.00	MAINLINE	0	400	0
0010	542+85.65	-	548+00.00	MAINLINE	0	1029	0
0010	548+00.00	-	552+00.00	MAINLINE	0	800	100
0010	552+00.00	-	582+00.00	MAINLINE	0	6000	0
CATEGORY 0010 SUBTOTALS					950	42,156	4285
CATEGORY 0020 SUBTOTALS					0	6600	775
CATEGORY 0010 TOTALS							47,391
CATEGORY 0020 TOTALS							7,375

646.0106
PAVEMENT MARKING EPOXY 4-INCH

CATEGORY	STATION	-	STATION	LOCATION	EDGE LINE (WHITE) (LF)
0010	267+00.00	-	295+50.00	MAINLINE	5700
0010	295+50.00	-	312+00.00	MAINLINE	3300
0010	312+00.00	-	326+00.00	MAINLINE	2800
0010	326+00.00	-	331+50.00	MAINLINE	1100
0010	331+50.00	-	333+50.00	MAINLINE	400
0010	333+50.00	-	343+50.00	MAINLINE	2000
0010	343+50.00	-	353+00.00	MAINLINE	1900
0010	353+00.00	-	405+00.00	MAINLINE	10,400
0010	405+00.00	-	447+50.00	MAINLINE	8500
0010	447+50.00	-	451+00.00	MAINLINE	700
0010	451+00.00	-	509+86.81	MAINLINE	11,780
0020	113+00.00	-	144+00.00	MAINLINE	6200
0020	144+00.00	-	146+00.00	MAINLINE	400
0010	542+85.65	-	548+00.00	MAINLINE	1029
0010	548+00.00	-	552+00.00	MAINLINE	800
0010	552+00.00	-	582+00.00	MAINLINE	6000
CATEGORY 0010 SUBTOTALS					56,409
CATEGORY 0020 SUBTOTALS					6600

TRAFFIC CONTROL

		643.0420	643.0705	643.0900	643.0920	643.1050	643.3000
		TRAFFIC CONTROL BARRICADES TYPE III (NO.) (DAYS)	TRAFFIC CONTROL WARNING LIGHTS TYPE A (NO.) (DAYS)	TRAFFIC CONTROL SIGNS (NO.) (DAYS)	TRAFFIC CONTROL COVERING SIGNS TYPE II (EACH)	TRAFFIC CONTROL SIGNS PCMS (NO.) (DAYS)	TRAFFIC CONTROL DETOUR SIGNS (NO.) (DAYS)
CATEGORY	STAGE	LOCATION					
0020	1	113+00	5	220	6	264	1
0020	1	146+00	5	220	6	264	1
0020	1	OVERVIEW	5	220	10	440	2
0020	1	DODGEVILLE	2	88	4	176	0
0020	1	COBB	0	0	0	0	0
0020	1	HIGHLAND	0	0	0	0	0
0020	1	STH 80 & STH 133 INTERS.	0	0	0	0	0
0020	1	MUSCODA	0	0	0	0	0
0020	1	STH 80 & STH 60 INTERS.	0	0	0	0	0
0020	1	GOTHAM	0	0	0	0	0
0020	1	SPRING GREEN	2	88	4	176	0
CATEGORY 0020 TOTALS			19	836	30	1320	4

STATE PROJECT NO: 5255-01-60

HWY: STH 23

COUNTY: IOWA

MISCELLANEOUS QUANTITIES

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PLOT BY : _____

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ORIGINATOR : DIST _

PLOT SCALE : 1:1

3

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

633.5200
MARKERS CULVERT END

CATEGORY	STATION	LOCATION	(EACH)
0010	281+30	MAINLINE	2
0010	286+00	MAINLINE	2
0010	292+00	MAINLINE	2
0010	293+50	MAINLINE	2
0010	305+75	MAINLINE	2
0010	335+10	MAINLINE	2
0010	343+30	MAINLINE	2
0010	346+00	MAINLINE	2
0010	382+00	MAINLINE	2
0010	391+80	MAINLINE	2
0010	398+75	MAINLINE	2
0010	420+00	MAINLINE	2
0010	435+10	MAINLINE	2
0010	448+60	MAINLINE, RT	1
0010	457+20	MAINLINE	2
0010	503+60	MAINLINE,LT	1
0020	116+08	MAINLINE	2
0020	120+08	MAINLINE	2
0020	128+84	MAINLINE	2
0020	133+17	MAINLINE	2
0020	135+44	MAINLINE	2
0020	139+27	MAINLINE	2
0020	142+53	MAINLINE	2
0020	145+54	MAINLINE	2
0010	546+42	MAINLINE	2
0010	549+40	MAINLINE	2
0010	562+00	MAINLINE	2
0010	575+00	MAINLINE, RT	1
CATEGORY 0010 TOTAL			37
CATEGORY 0020 TOTAL			16

648.0100
LOCATING NO-PASSING ZONES

CATEGORY	STATION	-	STATION	LOCATION	(MI)
0010	267+00.00	-	509+86.81	MAINLINE	4.6
0020	113+00.00	-	146+00.00	MAINLINE	0.6
0010	542+85.65	-	582+00.00	MAINLINE	0.7
CATEGORY 0010 TOTAL					5.3
CATEGORY 0020 TOTAL					0.6

650.4500
CONSTRUCTION STAKING SUBGRADE

CATEGORY	STATION	-	STATION	LOCATION	(LF)
0020	113+00.00	-	146+00.00	MAINLINE	3300
CATEGORY 0020 TOTAL					3300

649.0100
TEMPORARY PAVEMENT MARKING 4-INCH

CATEGORY	STATION	-	STATION	LOCATION	SOLID CL (YELLOW) (LF)	EDGE LINE (WHITE) (LF)
0020	113+00	-	146+00	MAINLINE	6600	6600
CATEGORY 0020 TOTAL					13,200	

650.5000
CONSTRUCTION STAKING BASE

CATEGORY	STATION	-	STATION	LOCATION	(LF)
0020	113+00.00	-	146+00.00	MAINLINE	3300
CATEGORY 0020 TOTAL					3300

650.5500
CONSTRUCTION STAKING CONCRETE CURB AND GUTTER

CATEGORY	STATION	-	STATION	LOCATION	(EACH)
0020	133+29.50	-	137+14.15	MAINLINE, LT	387
0020	142+03.42	-	145+65.41	MAINLINE, LT	363
CATEGORY 0020 TOTAL					750

650.8000
CONSTRUCTION STAKING RESURFACING REFERENCE

CATEGORY	STATION	-	STATION	LOCATION	(LF)
0010	267+00.00	-	509+86.81	MAINLINE	24,386
0010	542+85.65	-	582+00.00	MAINLINE	3914
CATEGORY 0010 TOTAL					28,300

690.0150
SAWING ASPHALT

CATEGORY	STATION	LOCATION	(LF)
0010	267+00	MAINLINE	36
0020	113+00	MAINLINE	45
0020	146+00	MAINLINE	45
0010	582+00	MAINLINE	34
0010	266+30	CTH ZZ	60
0010	287+20	STH 130	60
0010	351+30	NELSON RD	40
0010	448+00	HOUSE ON THE ROCK RD	160
0010	503+00	SCENIC OVERLOOK	60
0010	508+80	SCENIC OVERLOOK	60
0010	547+90	UPPER WYOMING RD	60
0010	551+40	PERCUSSION ROCK RD	35
0010	579+20	LOWER WYOMING RD	70
CATEGORY 0010 TOTAL			675
CATEGORY 0020 TOTAL			90

STATE PROJECT NO: 5255-01-60

HWY: STH 23

COUNTY: IOWA

MISCELLANEOUS QUANTITIES

SHEET NO:

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ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

PERMANENT SIGNING

								634.0614 POSTS WOOD 4X6-INCHX 14-FT EACH	634.0616 POSTS WOOD 4X6-INCHX 16-FT EACH	634.0618 POSTS WOOD 4X6-INCHX 18-FT EACH	637.0202 SIGNS REFLECTIVE TYPE II SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	
CATEGORY	SIGN NUMBER	STATION	LOCATION	SIGN CODE	SIZE	DESCRIPTION	ORDER LINES							NOTES
0010	101R	265+35	STH 23, Right	J13-1	24" x 45"	Directional Without Cardinal	CTH ZZ					1	1	
0010	102	265+35	STH 23, Right	J13-1	24" x 45"	Directional Without Cardinal	Arrow Right CTH ZZ		1		7.50			
0010	103	265+50	STH 23, Left	J4-1	24" x 36"	Reassurance Assembly (1 Headed Route Panel)	Arrow Right South STH 23		1		6.00			
0010	104	265+90	STH 23, Right	R1-1	30" x 30"	Stop			1		5.18			
0010	105	266+20	STH 23, Left	W1-7	48" x 24"	Night Arrow (Double)			1		8.00			
0010	106R	266+25	STH 23, Left	J13-1	24" x 45"	Directional Without Cardinal	CTH ZZ Arrow Left					1	1	
0010	107R	266+30	STH 23, Right	W1-6	48" x 24"	Night Arrow (Single)	Arrow Left					1	1	
0010	108	266+30	STH 23, Right	W1-6	48" x 24"	Night Arrow (Single)	Arrow Left	1			8.00			
0010	109	266+30	STH 23, Right	W1-6	48" x 24"	Night Arrow (Single)	Arrow Right				8.00			Mount on back of 108
0010	110R	266+70	STH 23, Right	R1-1	36" x 36"	Stop						1	1	
0010	111	266+70	STH 23, Right	R1-1	30" x 30"	Stop			1		5.18			
0010	112	266+70	STH 23, Left	J13-1	24" x 45"	Directional Without Cardinal	CTH ZZ Arrow Left STH 23		1		7.50			
0010	113R	267+00	STH 23, Right	J13-1	24" x 45"	Directional Without Cardinal	Arrow Right-Left STH 23					1	1	
0010	114	267+00	STH 23, Right	J13-1	24" x 45"	Directional Without Cardinal	Arrow Right-Left STH 23		1		7.50			
0010	115R	267+80	STH 23, Right	R1-1	36" x 36"	Stop						1	1	
0010	116	268+20	STH 23, Right	J4-1	24" x 36"	Reassurance Assembly (1 Headed Route Panel)	North STH 23		1		6.00			
0010	117R	272+40	STH 23, Left	J1-1	24" x 39"	Junction Assembly	Jct CTH ZZ					1	1	
0010	118R	273+30	STH 23, Right	J1-1	24" x 39"	Junction Assembly	Jct STH 130					1	1	
0010	119	276+30	STH 23, Right	J1-1	24" x 39"	Junction Assembly	Jct STH 130		1		6.50			
0010	120	276+30	STH 23, Left	J1-1	24" x 39"	Junction Assembly	Jct CTH ZZ		1		6.50			
0010	121	278+40	STH 23, Right	J2-2	48" x 57"	Route Turn Assembly (2 Headed Route Panel)	North, North STH 130, STH 23			1	19.00			
0010	122R	280+00	STH 23, Right	J2-2	48" x 57"	Route Turn Assembly (2 Headed Route Panel)	Advanced Arrow Left Turn, Arrow Ahead North, North STH 130, STH 23					1	1	
0010	201	280+00	STH 23, Left	D2-1	78" x 15"	Destination/Distance (One)	Advanced Arrow Left Turn, Arrow Ahead Dodgeville 6	1			8.13			
0010	202	280+50	STH 23, Right	D1-2	84" x 30"	Two Destinations (Arrows)	Arrow Ahead, Spring Green Arrow Left, Lone Rock		2		17.50			
0010	203R	282+00	STH 23, Right	D1-2	90" x 36"	Two Destinations (Arrows)	Arrow Ahead, Spring Green Arrow Left, Lone Rock Avoca					1	2	
0010	204	282+50	STH 23, Right	R4-3	24" x 30"	Slower Traffic Keep Right			1		5.00			
0010	205	283+00	STH 23, Left	R2-1	24" x 30"	Speed Limit (55)			1		5.00			
0010	206R	285+00	STH 23, Right	R4-3	24" x 30"	Slower Traffic Keep Right						1	1	
0010	207	285+00	STH 23, Left	J4-1	24" x 36"	Reassurance Assembly (1 Headed Route Panel)	South STH 23		1		6.00			
0010	208R	285+40	STH 23, Left	D2-1	72" x 15"	Destination/Distance (One)	Dodgeville 6					1	1	
0010	209R	285+40	STH 23, Left	J4-1	24" x 36"	Reassurance Assembly (1 Headed Route Panel)	South STH 23					1		Mounted with 208R
0010	210	286+00	STH 23, Left	R4-3	24" x 30"	Slower Traffic Keep Right			1		5.00			
0010	211R	286+50	STH 23, Left	J3-2	48" x 57"	Route Turn Assembly (2 Headed Route Panel)	North, South STH 23, STH 23					1	1	
0010	212	286+50	STH 23, Left	J3-2	48" x 57"	Route Turn Assembly (2 Headed Route Panel)	Arrow Left, Arrow Right North, South STH 23, STH 23			1	19.00			
0010	213R	286+70	STH 23, Right	J3-1	24" x 57"	Route Turn Assembly (1 Headed Route Panel)	Arrow Left, Arrow Right North STH 130					1	1	
							Arrow Left							
							Category 0010 Sheet Totals	2	16	2	166.49	15	15	

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ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

PERMANENT SIGNING

								634.0614 POSTS WOOD 4X6-INCHX 14-FT EACH	634.0616 POSTS WOOD 4X6-INCHX 16-FT EACH	634.0618 POSTS WOOD 4X6-INCHX 18-FT EACH	637.0202 SIGNS REFLECTIVE TYPE II SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	
	SIGN NUMBER	STATION	LOCATION	SIGN CODE	SIZE	DESCRIPTION	ORDER LINES							NOTES
0010	214	286+70	STH 23, Right	J3-2	48" X 57"	Route Turn Assembly (2 Headed Route Panel)	North, North STH 130, STH 23 Arrow Left, Arrow Ahead			1	19.00			
0010	215R	286+80	STH 23, Left	R1-1	36" x 36"	Stop						1	1	
0010	216	286+80	STH 23, Left	R1-1	30" x 30"	Stop			1		5.18			
0010	217R	287+20	STH 23, Right	W1-7	48" x 24"	Night Arrow (Double)						1	1	
0010	218	287+20	STH 23, Right	W1-7	48" x 24"	Night Arrow (Double)		1			8.00			
0010	219R	288+00	STH 23, Left	J3-1	24" X 57"	Route Turn Assembly (1 Headed Route Panel)	North STH 130 Arrow Right South, North STH 23, STH 130 Arrow Ahead, Arrow Right			1	19.00			
0010	220	288+00	STH 23, Left	J3-2	48" x 57"	Route Turn Assembly (2 Headed Route Panel)								
0010	221	289+00	STH 23, Right	J4-1	24" x 36"	Reassurance Assembly (1 Headed Route Panel)	North STH 23		1		6.00			
0010	222R	290+35	STH 23, Right	J4-1	24" x 36"	Reassurance Assembly (1 Headed Route Panel)	North STH 23					1	1	
0010	223	292+00	STH 23, Right	R2-1	24" x 30"	Speed Limit (55)			1		5.00			
0010	224R	292+00	STH 23, Left	R4-3	24" x 30"	Slower Traffic Keep Right						1	1	
0010	225R	292+30	STH 23, Right	D2-1	90" X 15"	Destination/Distance (One)	Spring Green 11					1	2	
0010	226R	292+40	STH 23, Right	W14-3	48" x 36"	No Passing Zone						1		Mounted on back of 225R
0010	227	292+40	STH 23, Right	W14-3	48" x 36"	No Passing Zone			1		6.00			
0010	228	294+00	STH 23, Left	D1-2	72" x 30"	Two Destinations (Arrows)	Arrow Ahead, Dodgeville Lone Rock, Arrow Right Arrow Ahead, Dodgeville Lone Rock, Arrow Right		2		15.00			
0010	229R	295+40	STH 23, Left	D1-2	48" x 36"	Two Destinations (Arrows)						1	1	
0010	230	296+00	STH 23, Left	J2-2	48" X 57"	Route Turn Assembly (2 Headed Route Panel)	South, North STH 23, STH 130 Arrow Ahead, Advanced Arrow Right Turn, Spring Green 12			1	19.00			
0010	231	297+40	STH 23, Right	D2-1	96" X 15"	Destination/Distance (One)	South, North STH 23, STH 130 Arrow Ahead, Advanced Arrow Right Turn,	2			10.00			
0010	232R	298+00	STH 23, Left	J2-2	48" X 57"	Route Turn Assembly (2 Headed Route Panel)						1	1	
0010	233	298+00	STH 23, Left	J1-1	24" x 39"	Junction Assembly	Jct STH 130		1		6.50			
0010	234R	304+50	STH 23, Left	J1-1	24" x 39"	Junction Assembly	Jct STH 130					1	1	
0010	235R	307+50	STH 23, Left	R3-72	30" x 36"	Oncoming Traffic Uses Center Lane						1	1	
0010	301	312+30	STH 23, Left	R4-53	54" x 54"	Do Not Pass When Oncoming Traffic In Either Lane				2	20.25			
0010	302	314+50	STH 23, Left	R4-51	36" x 48"	Passing Lane Ahead 1/2 Mile			1		12.00			
0010	303	316+50	STH 23, Right	W9-1R	36" x 36"	Right Lane Ends			1		9.00			
0010	304R	319+50	STH 23, Right	W9-1R	36" x 36"	Right Lane Ends						1	1	
0010	305	320+75	STH 23, Right	W4-2R	36" x 36"	Lane Reduction Transition Symbol - Right			1		9.00			
0010	306	320+75	STH 23, Left	W4-2R	36" x 36"	Lane Reduction Transition Symbol - Right			1		9.00			
0010	307R	323+00	STH 23, Right	W4-2R	36" x 36"	Lane Reduction Transition Symbol - Right						1	1	
0010	308	325+00	STH 23, Left	R3-72	30" x 36"	Oncoming Traffic Uses Center Lane			1		7.50			
0010	309R	333+50	STH 23, Right	W14-3	48" x 36"	No Passing Zone						1	1	
0010	310	333+50	STH 23, Right	W14-3	48" x 36"	No Passing Zone			1		6.00			
0010	401	340+00	STH 23, Left	R4-51	36" x 48"	Passing Lane Ahead 1/2 Mile			1		12.00			
0010	402R	343+50	STH 23, Left	W14-3	48" x 36"	No Passing Zone						1	1	
0010	403	343+50	STH 23, Left	W14-3	48" x 36"	No Passing Zone			1		6.00			
0010	404R	343+50	STH 23, Left	R2-1	24" x 30"	Speed Limit (55)						1		Mounted on back of 402R
0010	405R	351+00	STH 23, Left	R1-1	36" x 36"	Stop						1	1	
0010	406	351+00	STH 23, Left	R1-1	30" x 30"	Stop			1		5.18			
0010	601R	404+00	STH 23, Right	W1-2R	36" x 36"	Right Curve						1	1	
0010	602R	404+00	STH 23, Right	W13-1	18" x 18"	Advisory Speed Plate (Yellow Black)	50					1		Mounted with 601R
0010	603	405+00	STH 23, Right	R3-72	30" x 36"	Oncoming Traffic Uses Center Lane			1		7.50			
0010	604R	410+15	STH 23, Left	W4-2R	36" x 36"	Lane Reduction Transition Symbol - Right						1	1	
Category 0010 Sheet Totals								3	17	5	222.11	20	18	

STATE PROJECT NO: 5255-01-60

HWY: STH 23

COUNTY: IOWA

MISCELLANEOUS QUANTITIES

SHEET NO:

E

FILE NAME : _____

PLOT DATE : _____

PLOT BY : _____

PLOT NAME : _____

ORG DATE : _____

ORIGINATOR : DIST _

PLOT SCALE : 1:1

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

PERMANENT SIGNING

								634.0614 POSTS WOOD 4X6-INCHX 14-FT EACH	634.0616 POSTS WOOD 4X6-INCHX 16-FT EACH	634.0618 POSTS WOOD 4X6-INCHX 18-FT EACH	637.0202 SIGNS REFLECTIVE TYPE II SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	
	SIGN NUMBER	STATION	LOCATION	SIGN CODE	SIZE	DESCRIPTION	ORDER LINES							NOTES
0010	605	410+15	STH 23, Left	W4-2R	36" x 36"	Lane Reduction Transition Symbol - Right			1		9.00			
0010	606	410+15	STH 23, Right	W4-2R	36" x 36"	Lane Reduction Transition Symbol - Right			1		9.00			
0010	607R	414+30	STH 23, Left	W9-1R	36" x 36"	Right Lane Ends						1	1	
0010	608	414+30	STH 23, Left	W9-1R	36" x 36"	Right Lane Ends			1		9.00			
0010	609R	415+80	STH 23, Right	W1-5L	36" x 36"	Left Winding Road						1	1	
0010	610R	415+80	STH 23, Right	W13-1	18" x 18"	Advisory Speed Plate (Yellow Black)	50					1		Mounted with 609R
0010	611R	422+50	STH 23, Right	I55-56	30" x 36"	Adopt A Highway	THE HOUSE ON THE ROCK EMPLOYEES					1	1	
0010	612	422+50	STH 23, Right	I55-56	30" x 36"	Adopt A Highway	THE HOUSE ON THE ROCK EMPLOYEES		1		7.50			
0010	613	426+50	STH 23, Right	W1-5L	30" x 30"	Left Winding Road			1		6.25			
0010	614	426+50	STH 23, Right	W13-1	18" x 18"	Advisory Speed Plate (Yellow Black)	50				2.25			Mount with 613
0010	615	430+75	STH 23, Right	W1-6	48" x 24"	Night Arrow (Single)	Arrow Left	1			8.00			
0010	701	447+00	STH 23, Left	J4-1	24" x 36"	Reassurance Assembly (1 Headed Route Panel)	South STH 23		1		6.00			
0010	702R	447+70	STH 23, Left	M3-3	24" x 12"	South Cardinal Route Marker						1	1	
0010	703R	447+70	STH 23, Left	M1-6	24" x 24"	State Route Marker	23					1		Mounted with 702R
0010	704	449+15	STH 23, Right	J4-1	24" x 36"	Reassurance Assembly (1 Headed Route Panel)	North STH 23		1		6.00			
0010	705	453+90	STH 23, Right	R3-72	30" x 36"	Oncoming Traffic Uses Center Lane			1		7.50			
0010	706R	456+60	STH 23, Left	W1-5L	36" x 36"	Left Winding Road						1	1	
0010	707R	456+60	STH 23, Left	W13-1	18" x 18"	Advisory Speed Plate (Yellow Black)	50					1		Mounted with 706R
0010	708	460+00	STH 23, Right	W1-6	48" x 24"	Night Arrow (Single)	Arrow Right	1			8.00			
0010	801	465+50	STH 23, Left	W1-5L	36" x 36"	Left Winding Road			1		9.00			
0010	802	465+50	STH 23, Left	W13-1	18" x 18"	Advisory Speed Plate (Yellow Black)	50				2.25			Mount with 801
0010	803R	467+50	STH 23, Left	W1-2R	36" x 36"	Right Curve						1	1	
0010	804R	467+50	STH 23, Left	W13-1	18" x 18"	Advisory Speed Plate (Yellow Black)	50					1		Mounted with 803R
0010	805R	468+00	STH 23, Right	W1-2R	36" x 36"	Right Curve						1	1	
0010	806R	475+50	STH 23, Right	D6-51	54" x 36"	Scenic Overlook 1/2 Mile						1	1	
0010	807	475+50	STH 23, Right	D6-51	54" x 36"	Scenic Overlook 1/2 Mile			2		13.50			
0010	808	494+00	STH 23, Right	W7-1	36" x 36"	Hill				1	9.00			
0010	809	494+00	STH 23, Right	W7-3	24" x 18"	(%) Grade	7				3.00			Mount with 808
0010	901	496+00	STH 23, Right	D6-53R	54" x 36"	Scenic Overlook (Right Arrow)			2		13.50			
0010	902R	496+90	STH 23, Right	W7-1	30" x 30"	Hill						1	1	
0010	903	498+50	STH 23, Left	W1-2R	30" x 30"	Right Curve			1		6.25			
0010	904R	500+00	STH 23, Right	W1-2R	36" x 36"	Right Curve						1	1	
0010	905	500+00	STH 23, Right	W1-2R	30" x 30"	Right Curve			1		6.25			
0010	906R	501+50	STH 23, Left	W1-4R	36" x 36"	Right Reverse Curve						1	1	
0010	907R	502+15	STH 23, Right	D6-53R	54" x 36"	Scenic Overlook (Right Arrow)						1	1	
0010	908	502+20	STH 23, Right	R6-2R	24" x 30"	One Way Right Arrow			1		5.00			
0010	909R	503+00	STH 23, Right	R5-1	36" x 36"	Do Not Enter						1	1	
0010	910	503+00	STH 23, Right	R5-1	30" x 30"	Do Not Enter			1		6.25			
0010	911R	503+20	STH 23, Right	R4-7	24" x 30"	Keep Right						1	1	
0010	912	503+20	STH 23, Right	R4-7	24" x 30"	Keep Right			1		5.00			
0010	913R	503+25	STH 23, Right	R5-1	36" x 36"	Do Not Enter						1	1	
0010	914	503+25	STH 23, Right	R5-1	30" x 30"	Do Not Enter			1		6.25			
0010	915R	503+70	STH 23, Right	R1-1	36" x 36"	Stop						1	1	
0010	916	503+70	STH 23, Right	R1-1	30" x 30"	Stop			1		5.18			
0010	917R	503+80	STH 23, Left	R3-2	30" x 30"	No Left Turn Symbol						1	1	
0010	918	503+80	STH 23, Left	R3-2	36" x 36"	No Left Turn Symbol			1		9.00			
0010	919R	503+90	STH 23, Right	R5-1	36" x 36"	Do Not Enter						1	1	
0010	920	503+90	STH 23, Right	R5-1	30" x 30"	Do Not Enter			1		6.25			
0010	921R	503+90	STH 23, Right	R3-2	30" x 30"	No Left Turn Symbol						1		Mounted on back of 919R
0010	922	503+90	STH 23, Right	R3-2	36" x 36"	No Left Turn Symbol					9.00			Mount on back of 920
0010	923	506+00	STH 23, Right	R3-72	30" x 36"	Oncoming Traffic Uses Center Lane			1		7.50			
0010	924R	508+00	STH 23, Left	R5-1	36" x 36"	Do Not Enter						1	1	
0010	925	508+00	STH 23, Left	R5-1	30" x 30"	Do Not Enter			1		6.25			
0010	926R	508+15	STH 23, Right	R3-2	30" x 30"	No Left Turn Symbol						1	1	
0010	927	508+15	STH 23, Right	R3-2	36" x 36"	No Left Turn Symbol			1		9.00			
0010	928R	508+25	STH 23, Left	R1-1	36" x 36"	Stop						1	1	
Category 0010 Sheet Totals								2	25	1	215.93	26	21	

STATE PROJECT NO: 5255-01-60

HWY: STH 23

COUNTY: IOWA

MISCELLANEOUS QUANTITIES

SHEET NO:

E

FILE NAME : _____

PLOT DATE : _____

PLOT BY : _____

PLOT NAME : _____

ORG DATE : _____

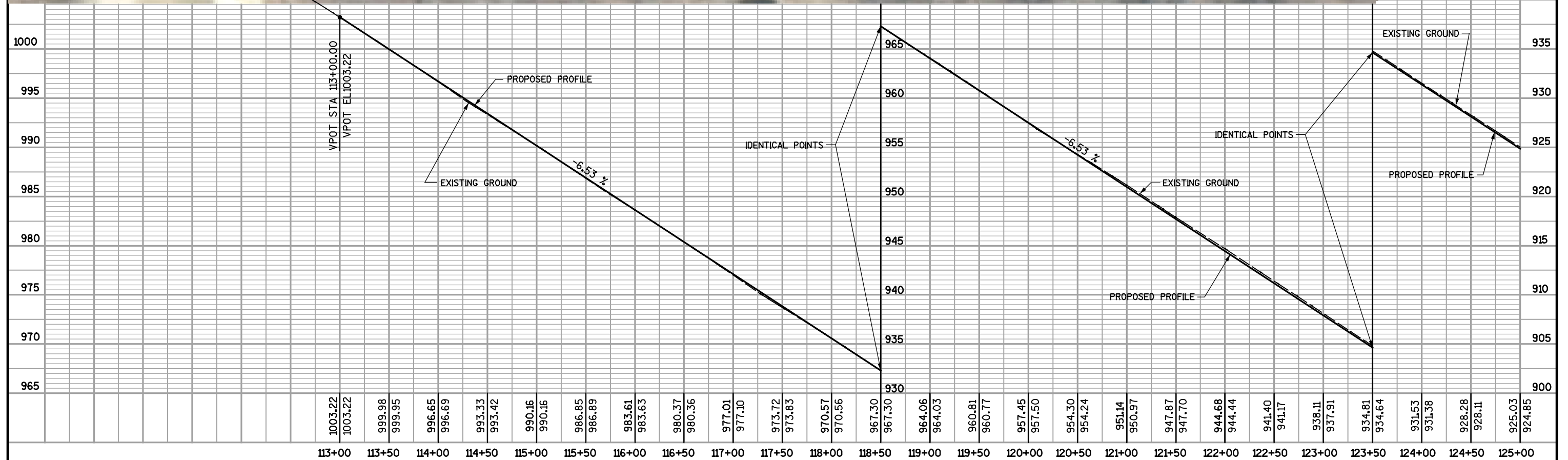
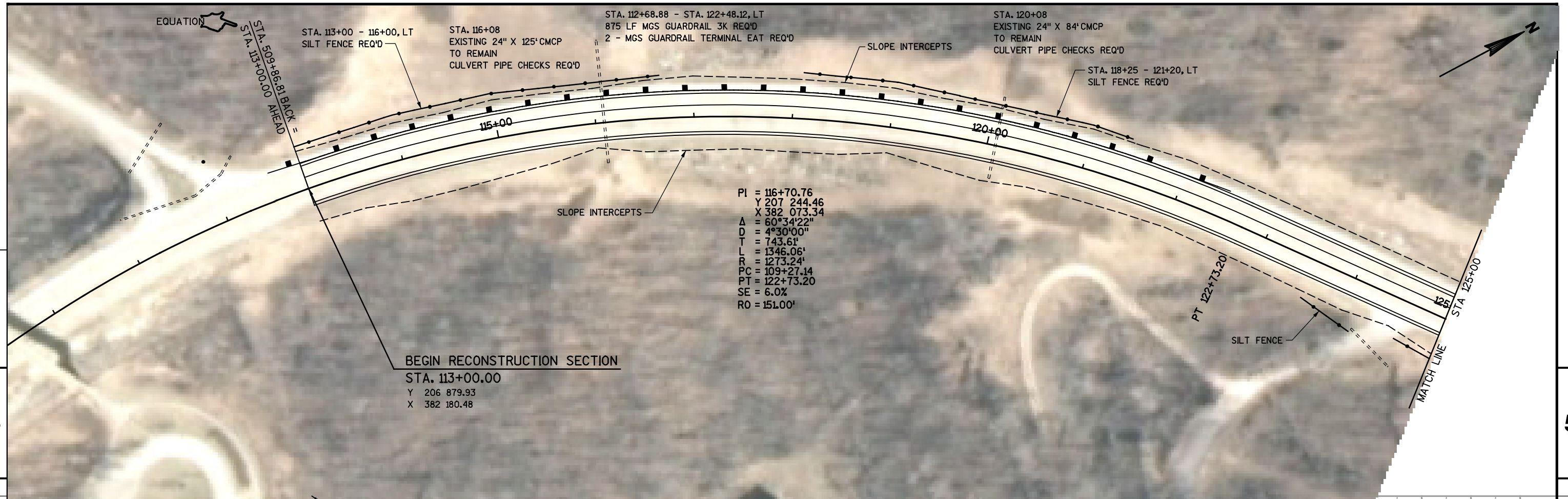
ORIGINATOR : DIST _

PLOT SCALE : 1:1

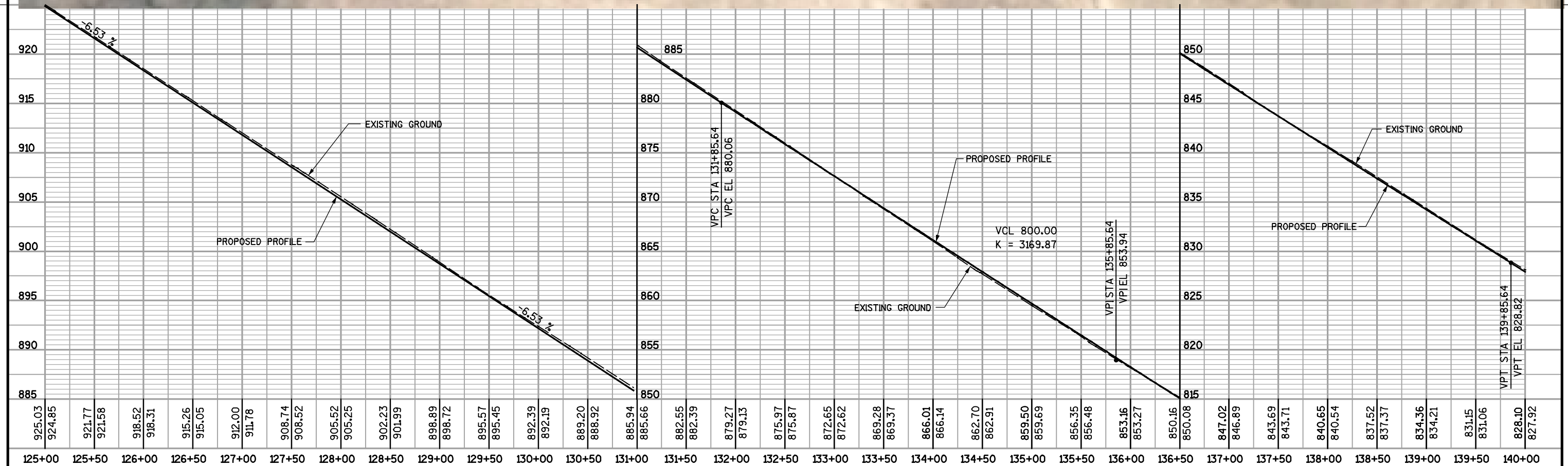
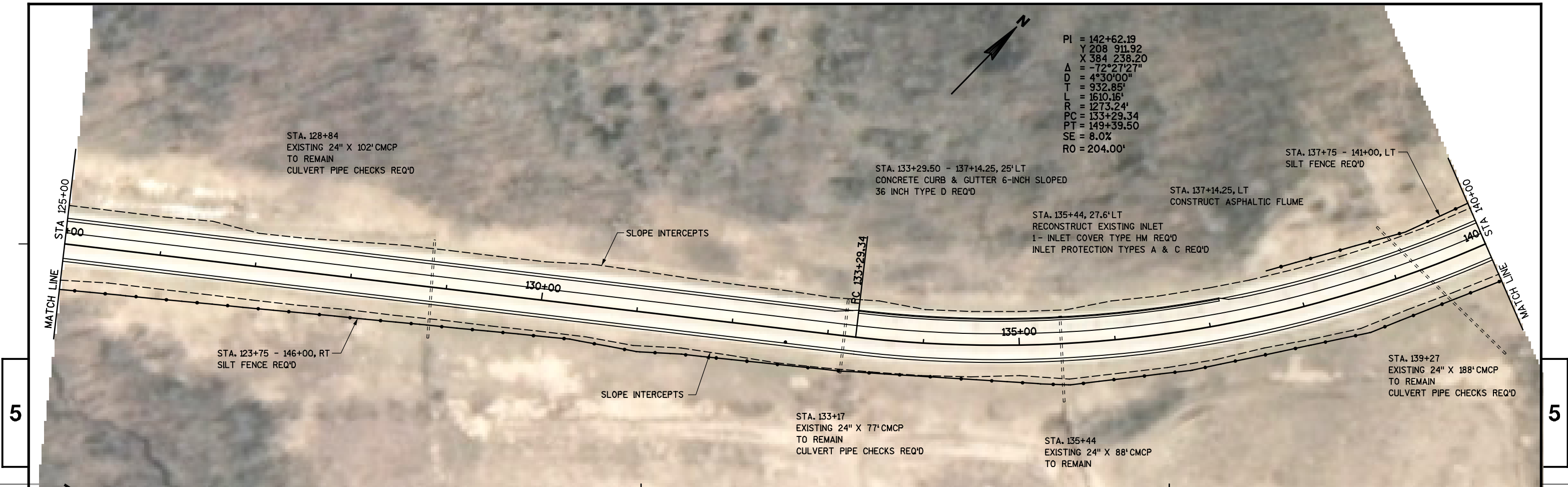
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

PERMANENT SIGNING

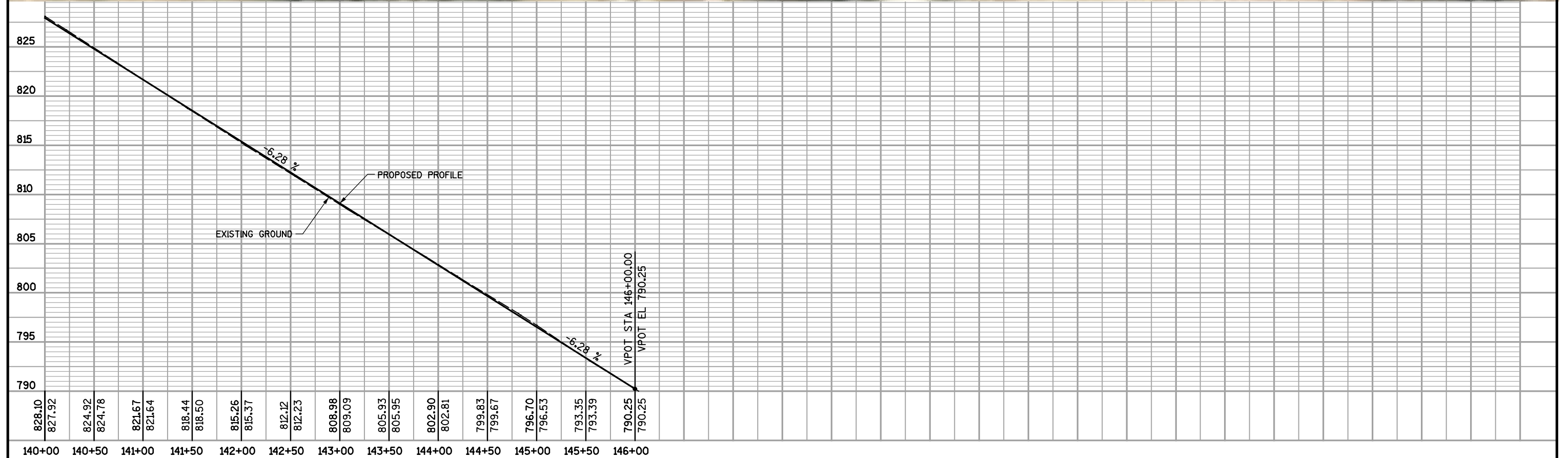
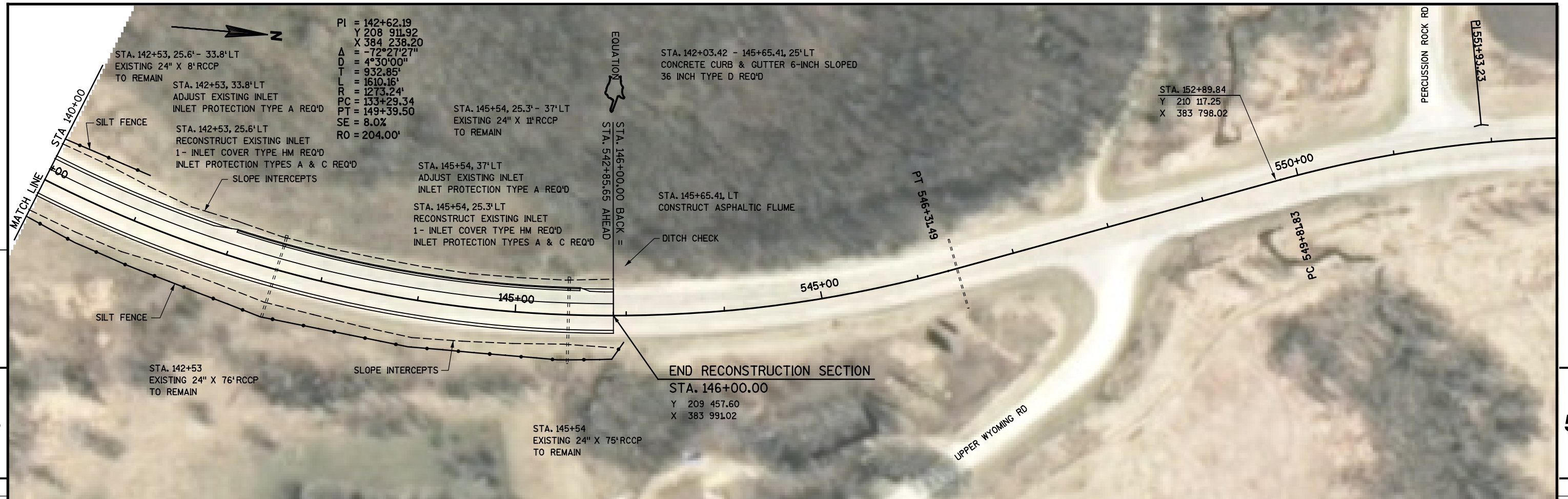
								634.0614 POSTS WOOD 4X6-INCHX 14-FT EACH	634.0616 POSTS WOOD 4X6-INCHX 16-FT EACH	634.0618 POSTS WOOD 4X6-INCHX 18-FT EACH	637.0202 SIGNS REFLECTIVE TYPE II SF	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	
	SIGN NUMBER	STATION	LOCATION	SIGN CODE	SIZE	DESCRIPTION	ORDER LINES							NOTES
0010	929	508+25	STH 23, Left	R1-1	30" x 30"	Stop			1		5.18			
0010	930R	508+50	STH 23, Left	R4-7	24" x 30"	Keep Right						1	1	
0010	931	508+50	STH 23, Left	R4-7	24" x 30"	Keep Right			1		5.00			
0010	932R	508+70	STH 23, Left	R5-1	36" x 36"	Do Not Enter						1	1	
0010	933	508+70	STH 23, Left	R5-1	30" x 30"	Do Not Enter			1		6.25			
0010	934R	508+70	STH 23, Left	R3-2	30" x 30"	No Left Turn Symbol						1		Mounted on back of 932R
0010	935	508+70	STH 23, Left	R3-2	36" x 36"	No Left Turn Symbol					9.00			Mount on back of 933
0010	936R	508+90	STH 23, Left	R5-1	36" x 36"	Do Not Enter						1	1	
0010	937	508+90	STH 23, Left	R5-1	30" x 30"	Do Not Enter			1		6.25			
0010	938R	509+85	STH 23, Left	D6-53R	54" x 36"	Scenic Overlook (Right Arrow)						1	1	
0020	939	120+00	STH 23, Left	D6-53R	54" x 36"	Scenic Overlook (Right Arrow)			2		13.50			
0020	940R	128+00	STH 23, Left	W1-2L	36" x 36"	Left Curve						1	1	
0020	941R	129+00	STH 23, Right	W1-4L	36" x 36"	Left Reverse Curve						1	1	
0020	1001R	140+90	STH 23, Left	D6-51	54" x 36"	Scenic Overlook 1/2 Mile						1	1	
0020	1002	140+90	STH 23, Left	D6-51	54" x 36"	Scenic Overlook 1/2 Mile			2		13.50			
0010	1003R	544+75	STH 23, Left	R4-3	24" x 30"	Slower Traffic Keep Right						1	1	
0010	1004	546+30	STH 23, Left	R4-3	24" x 30"	Slower Traffic Keep Right			1		5.00			
0010	1005R	548+25	STH 23, Right	R1-1	36" x 36"	Stop						1	1	
0010	1006	548+25	STH 23, Right	R1-1	30" x 30"	Stop			1		5.18			
0010	1007R	551+15	STH 23, Left	R1-1	36" x 36"	Stop						1	1	
0010	1008	551+15	STH 23, Left	R1-1	30" x 30"	Stop			1		5.18			
0010	1009R	552+15	STH 23, Left	I55-56	30" x 36"	Adopt A Highway	THE HOUSE ON THE ROCK EMPLOYEES					1	1	
0010	1010	552+15	STH 23, Left	I55-56	30" x 36"	Adopt A Highway	THE HOUSE ON THE ROCK EMPLOYEES		1		7.50			
0010	1011R	554+80	STH 23, Left	W1-4L	36" x 36"	Left Reverse Curve						1	1	
0010	1101R	569+70	STH 23, Right	W1-2R	36" x 36"	Right Curve						1	1	
0010	1102R	578+80	STH 23, Left	R1-1	36" x 36"	Stop						1	1	
0010	1103	578+80	STH 23, Left	R1-1	30" x 30"	Stop			1		5.18			
							Category 0010 Sheet Totals	0	9	0	59.72	12	11	
							Category 0020 Sheet Totals	0	4	0	27	3	3	
							Category 0010 Signing Totals	7	67	8	664.25	73	65	
							Category 0020 Signing Totals	0	4	0	27.00	3	3	



PROJECT NO:5255-01-60				HWY: STH 23				COUNTY: IOWA				PLAN & PROFILE				SHEET				E			
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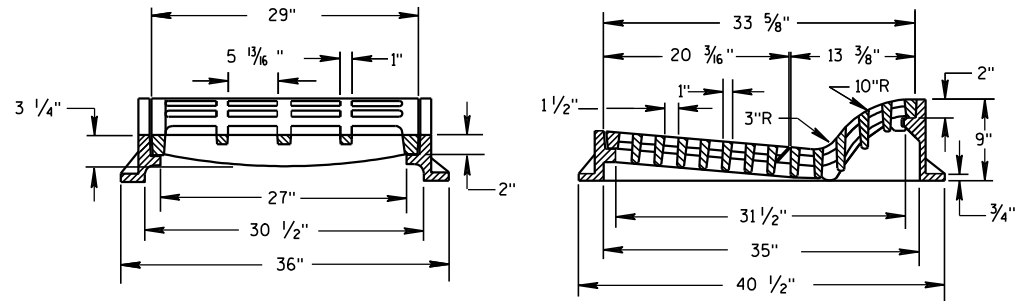
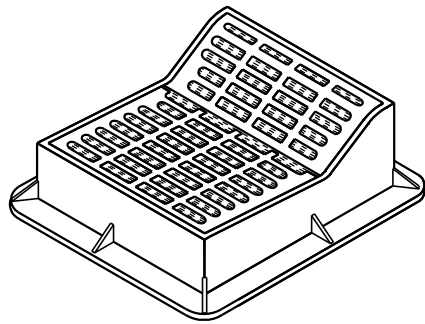
PROJECT NO:5255-01-60			HWY: STH 23			COUNTY: IOWA			PLAN & PROFILE			SHEET			E		
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PROJECT NO:5255-01-60	HWY:STH 23	COUNTY:IOWA	PLAN & PROFILE	SHEET	E
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Standard Detail Drawing List

08A05-18C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
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)
15A03-01	MARKER POSTS, FLEXIBLE, FOR CULVERT END
15C02-04A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-04B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-04C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C08-14A	PAVEMENT MARKING (MAINLINE)
15C08-14B	PAVEMENT MARKING (INTERSECTIONS)
15C08-14C	PAVEMENT MARKING (CLIMBING LANE & PASSING LANE)
15C08-14D	PAVEMENT MARKING (CLIMBING LANE & PASSING LANE)
15C08-14F	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)
15C12-03	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)



TYPE "F"

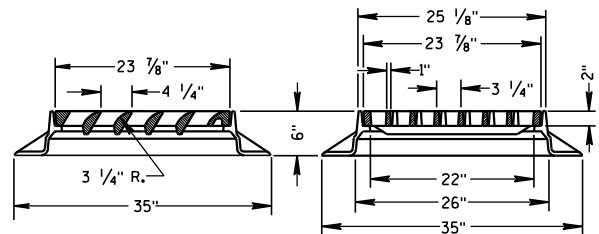
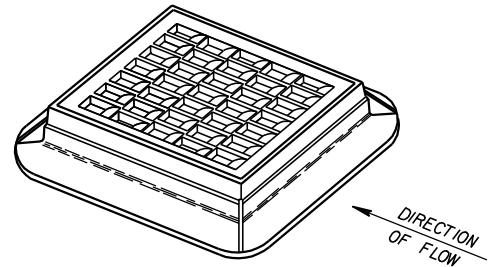
(APPROXIMATE WEIGHT 644 LBS.)

FRAME.....302 LBS.

GRATE.....160 LBS.

GRATE.....182 LBS.

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

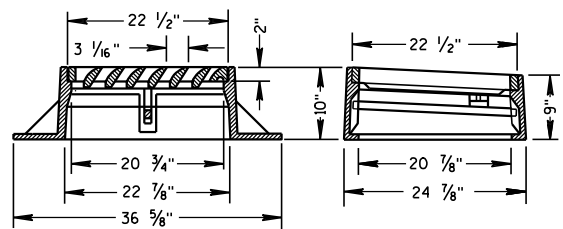
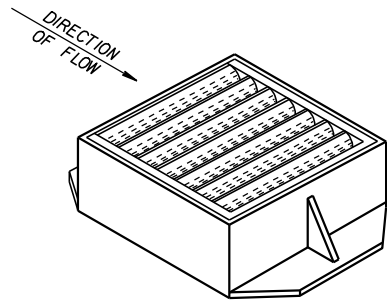


TYPE "S"

(APPROXIMATE WEIGHT 333 LBS.)

FRAME.....164 LBS.

GRATE.....169 LBS.



TYPE "V"

(APPROXIMATE WEIGHT 410 LBS.)

FRAME.....269 LBS.

GRATE.....136 LBS.

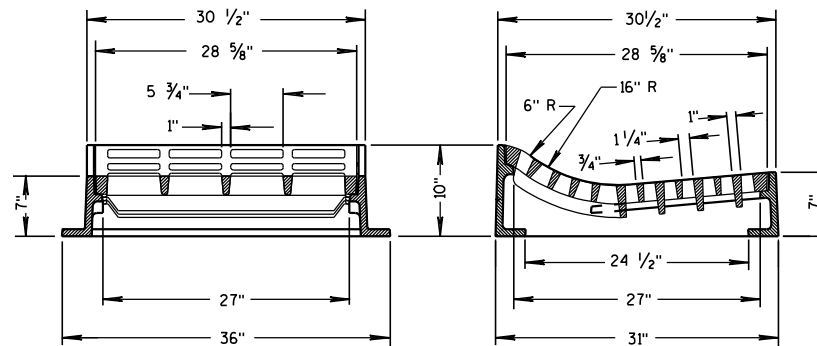
SAFETY BAR.....5 LBS.

**ALTERNATIVE CURB BOX
FOR TYPE "HM" COVER**

(APPROXIMATE WEIGHT CURB BOX 68 LBS.)

USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE



TYPE "T"

(APPROXIMATE WEIGHT 530 LBS.)

FRAME.....270 LBS.

GRATE.....260 LBS.

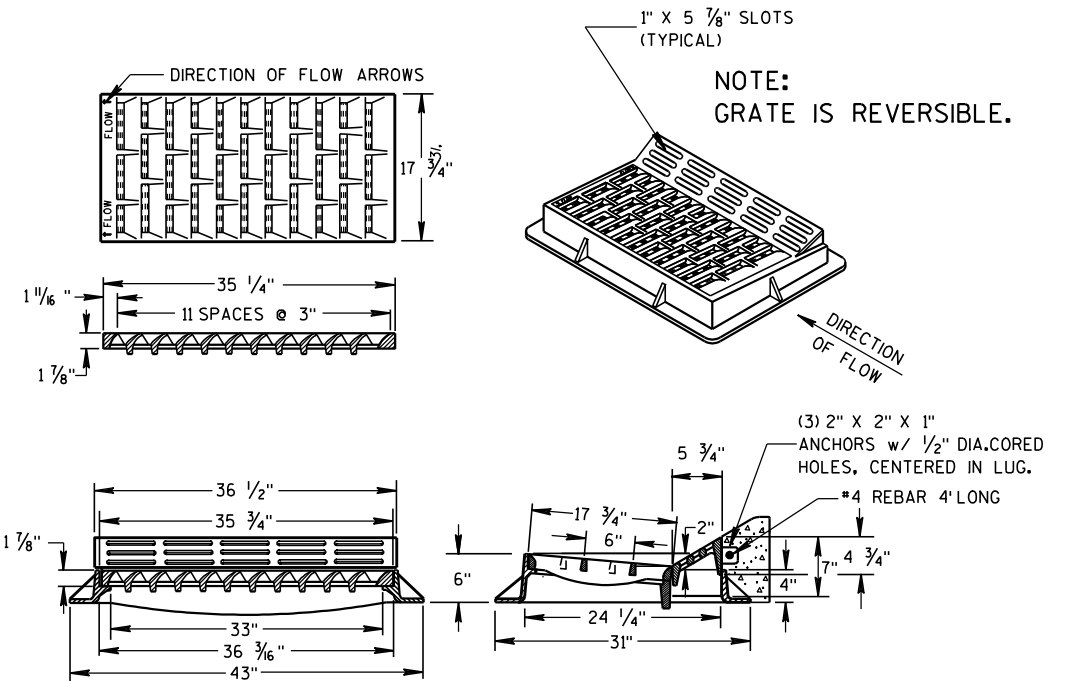
USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.



TYPE "HM"

(APPROXIMATE WEIGHT 414 LBS.)

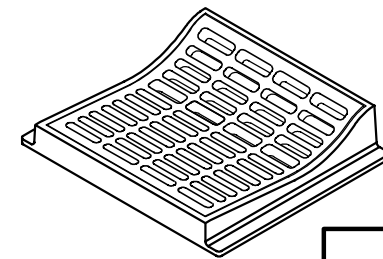
FRAME.....181 LBS.

GRATE.....159 LBS.

CURB BOX.....74 LBS.

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



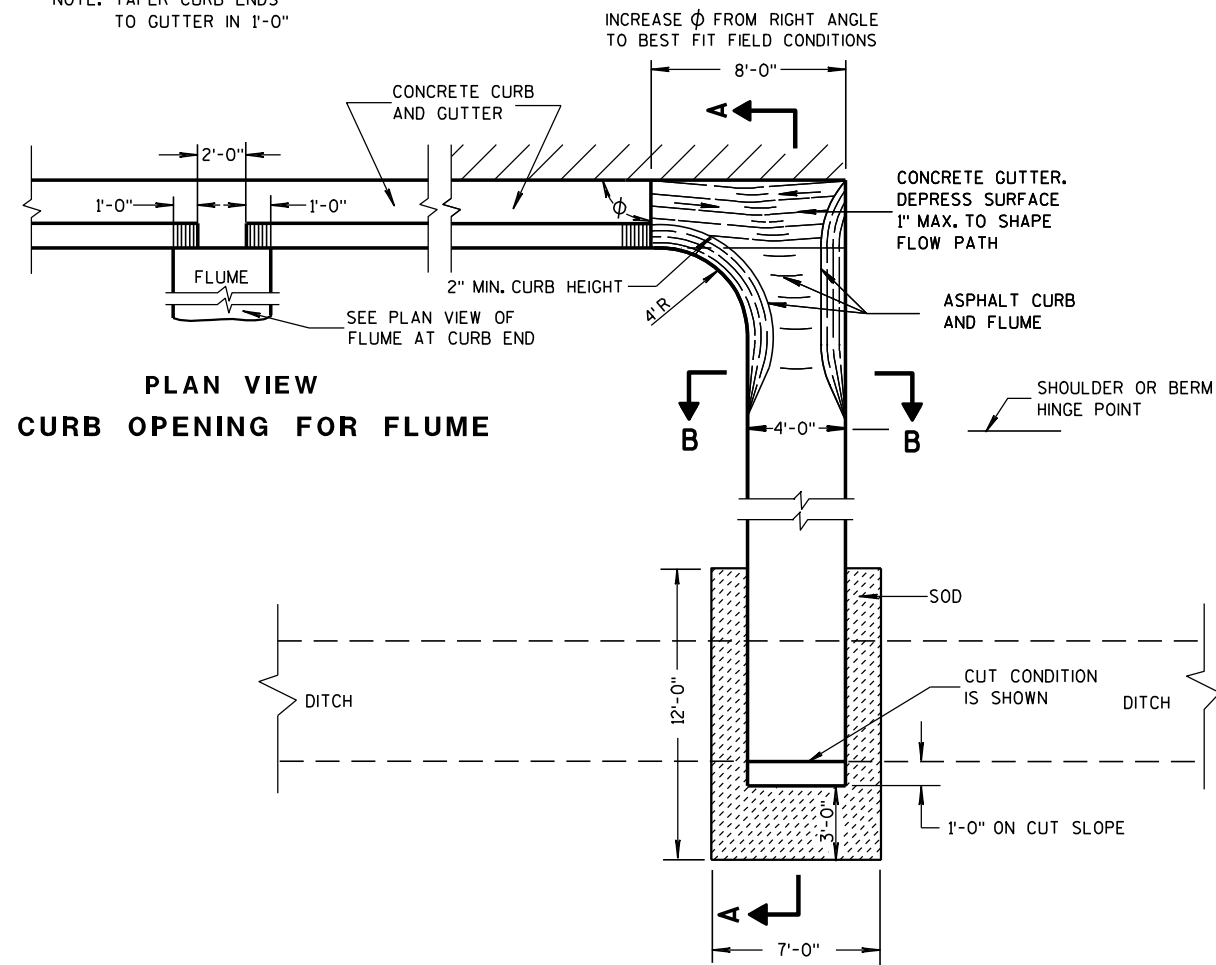
INLET COVERS
TYPE F, HM, HM-S, S, T, V,
HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA

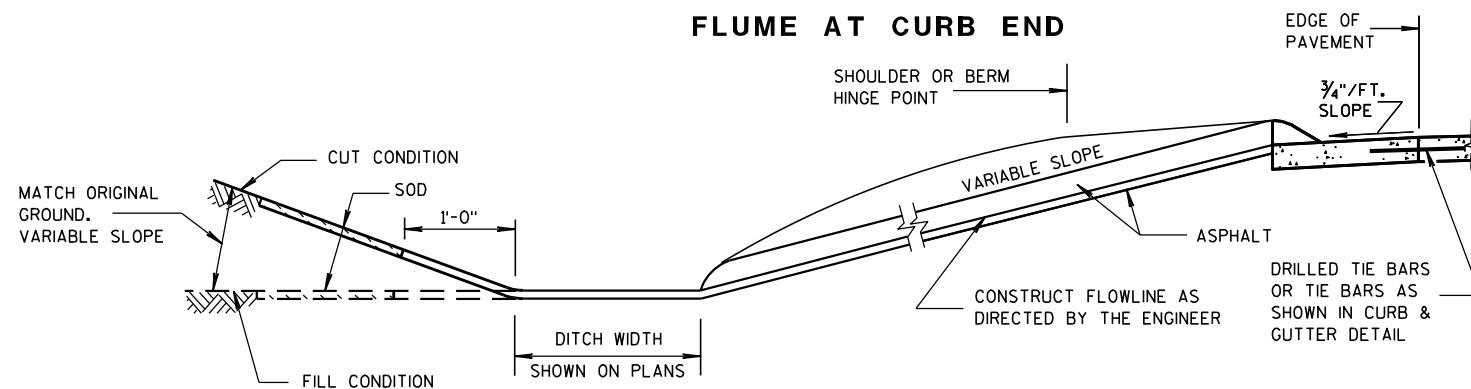
ASPHALTIC FLUME

NOTE: TAPER CURB ENDS
TO GUTTER IN 1'-0"

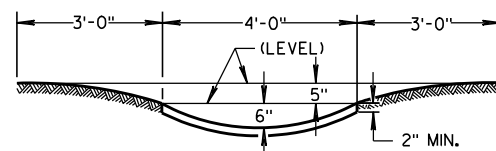


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

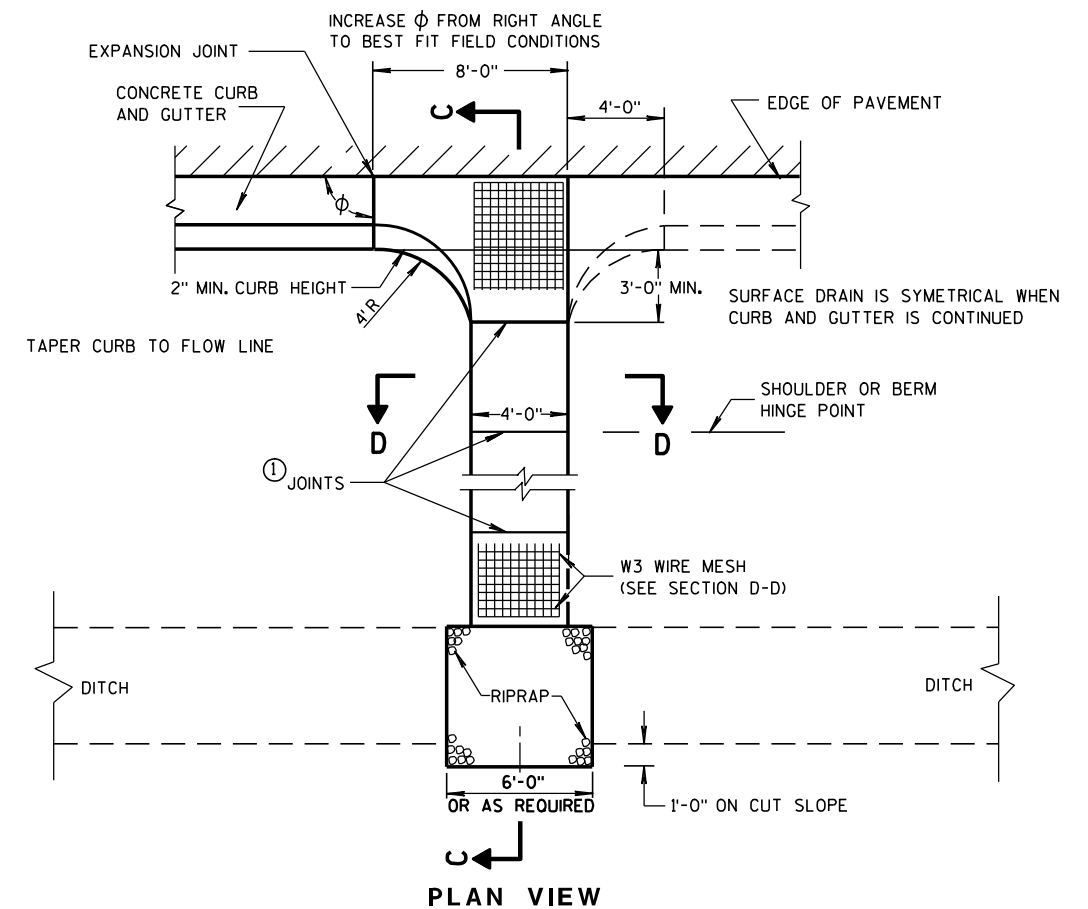
GENERAL NOTES

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

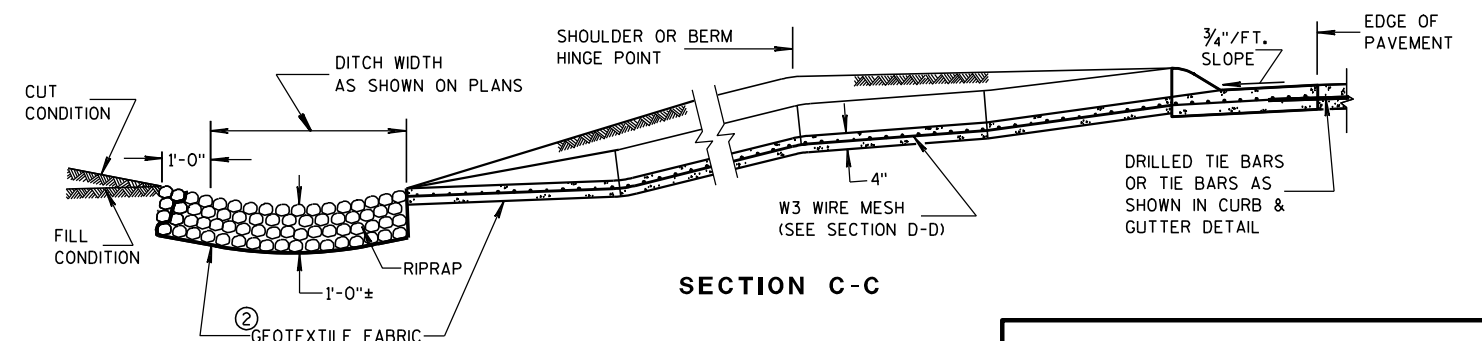
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

- ① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
- ② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
- ③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

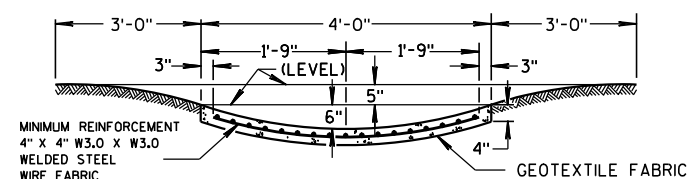
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9-4-08

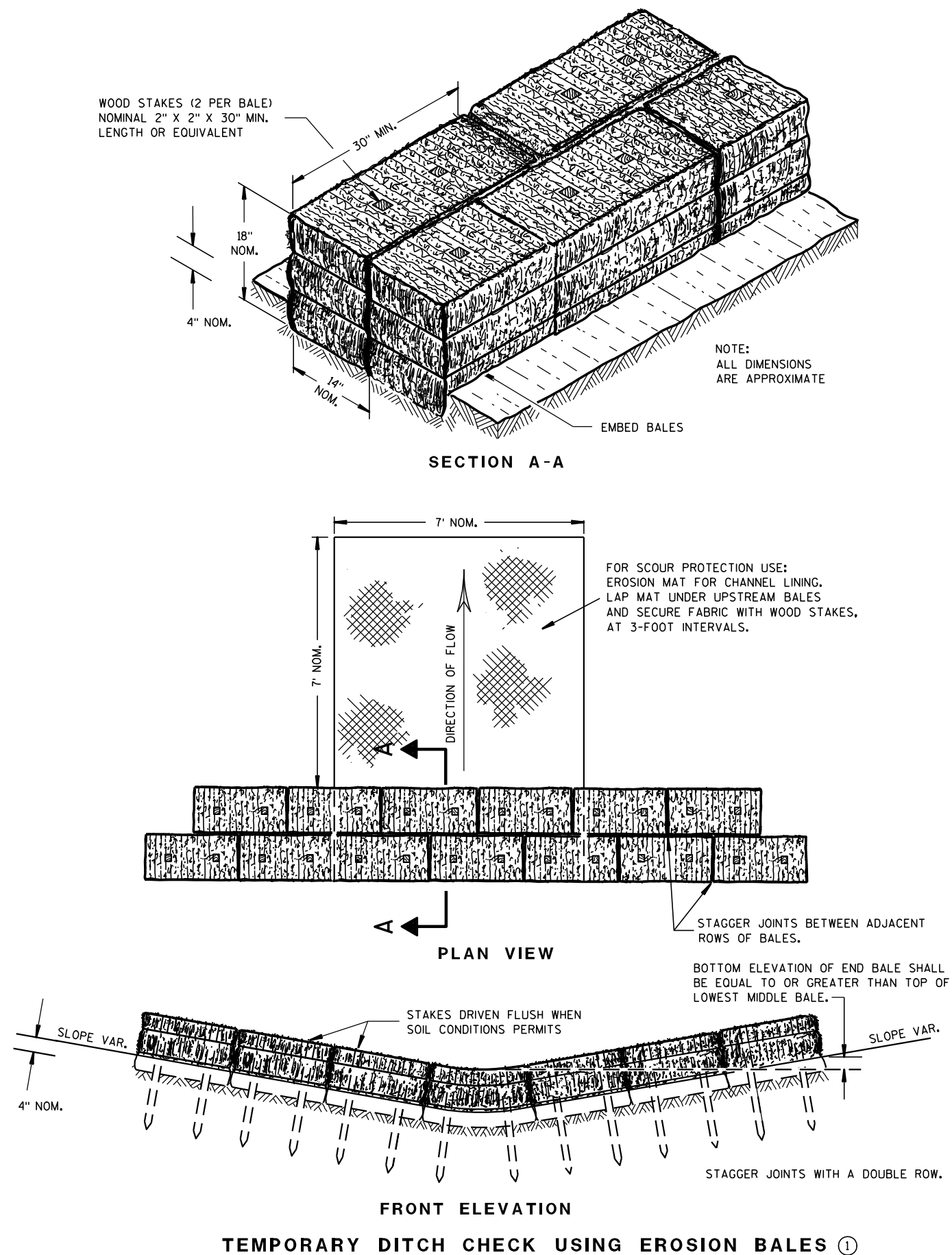
DATE

FHWA

/S/ Jerry H. Zogg

ROADWAY STANDARDS DEVELOPMENT

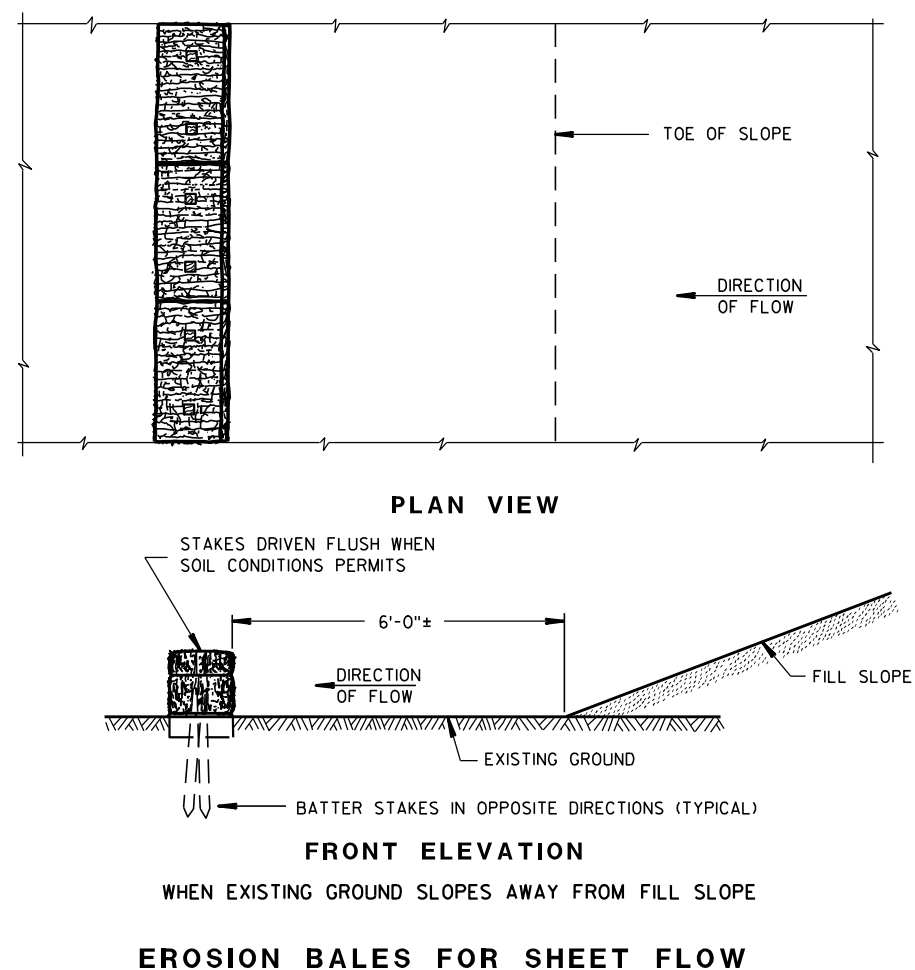
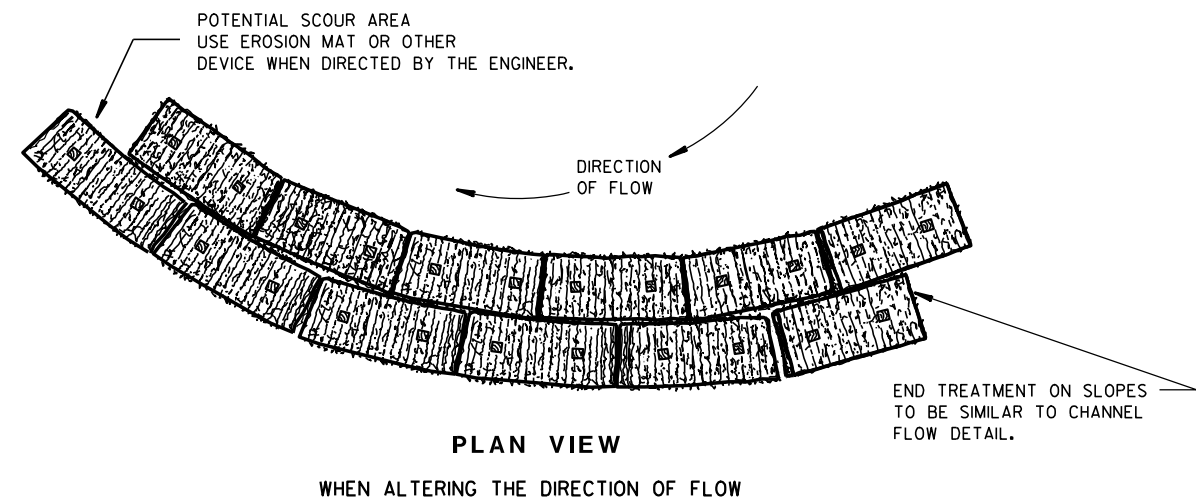
ENGINEER



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

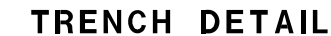
APPROVED

6/04/02
DATE/S/ Beth Canestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

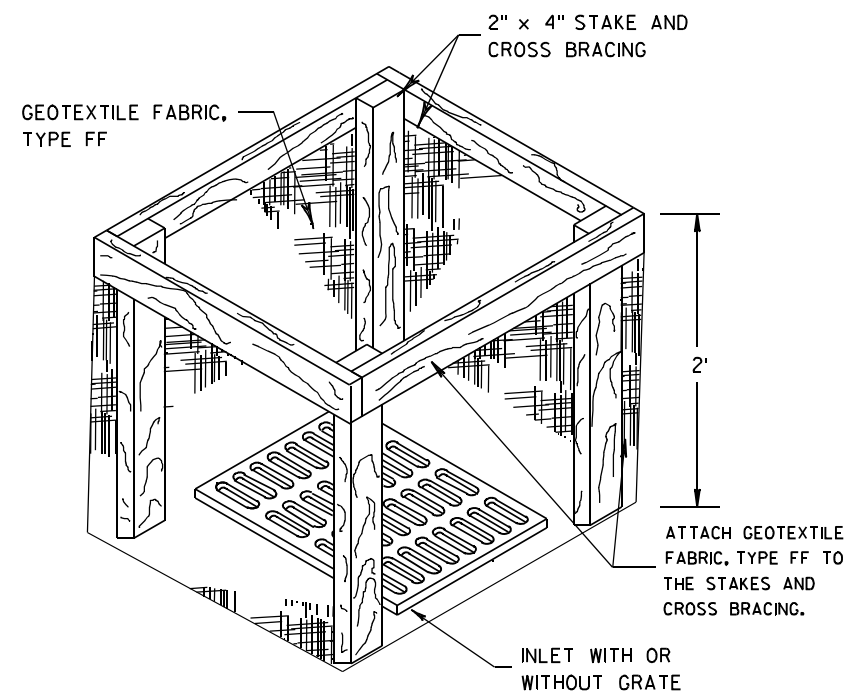
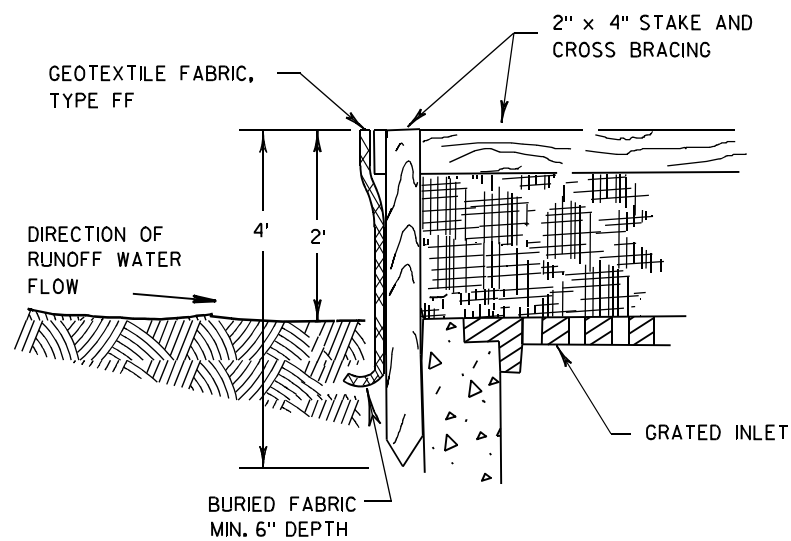
FHWA



- 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 1 1/8" X 1 1/8" 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 4-29-05 DATE	/S/ <u>Beth Cannestra</u> CHIEF ROADWAY DEVELOPMENT ENGINEER



INLET PROTECTION, TYPE A

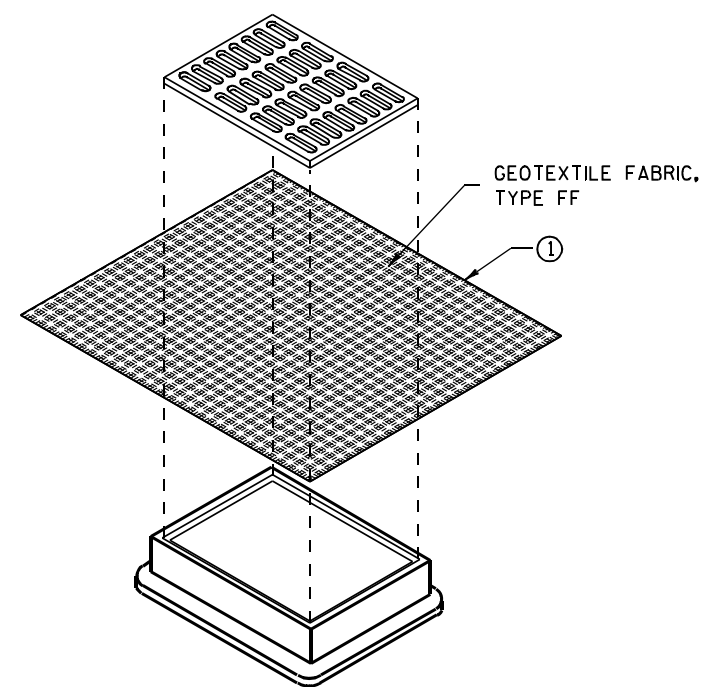
GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

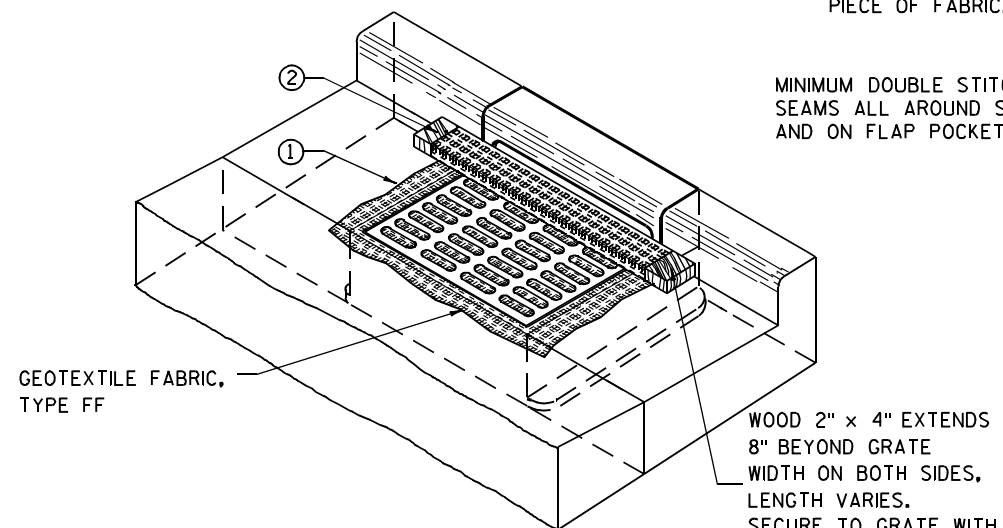
MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



**INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)**
(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

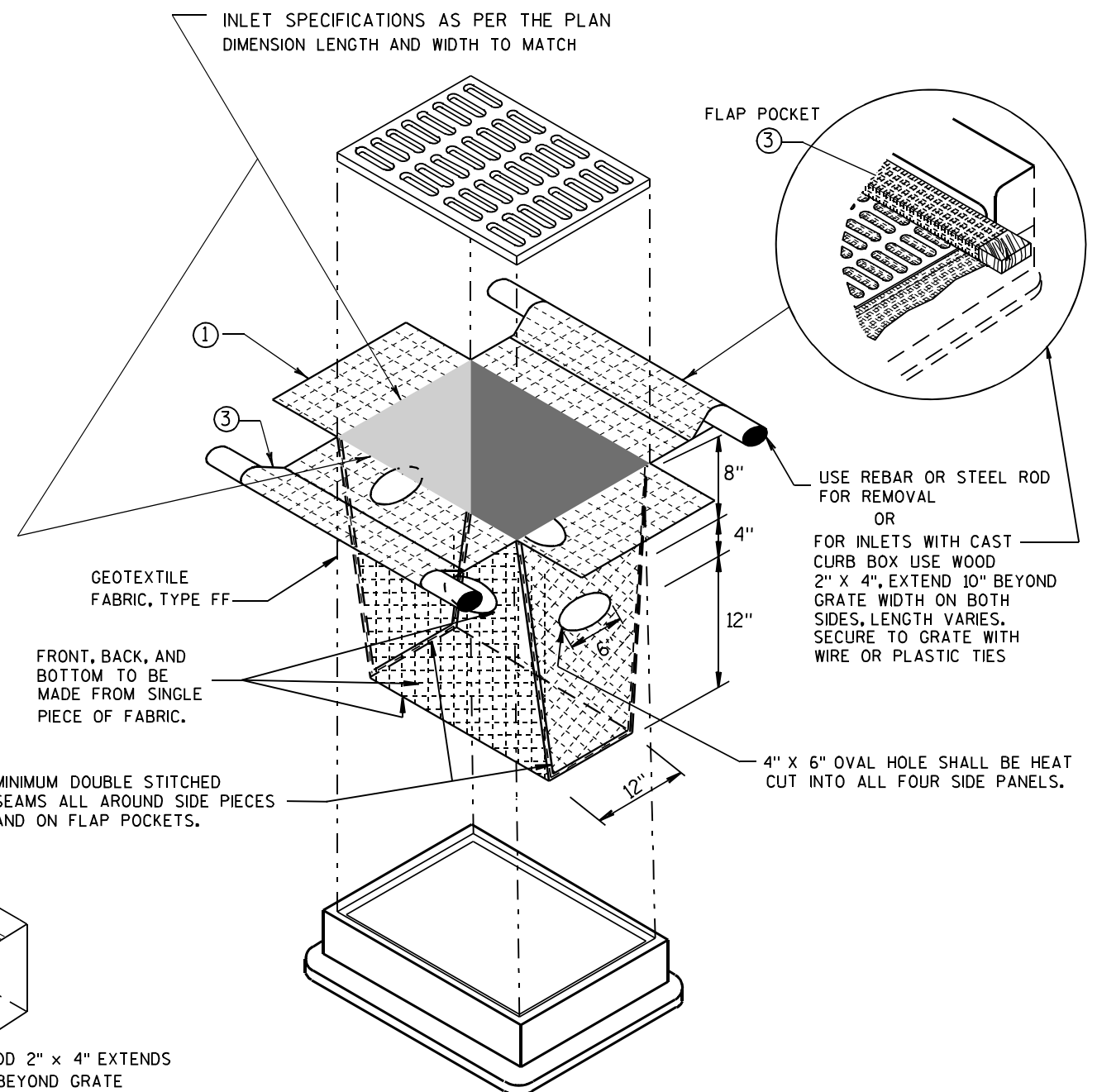
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

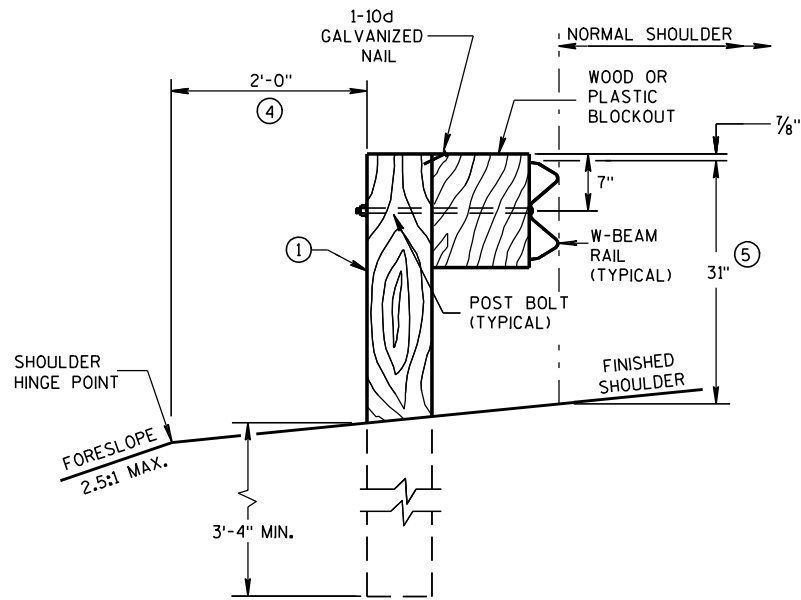
**INLET PROTECTION
TYPE A, B, C, AND D**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

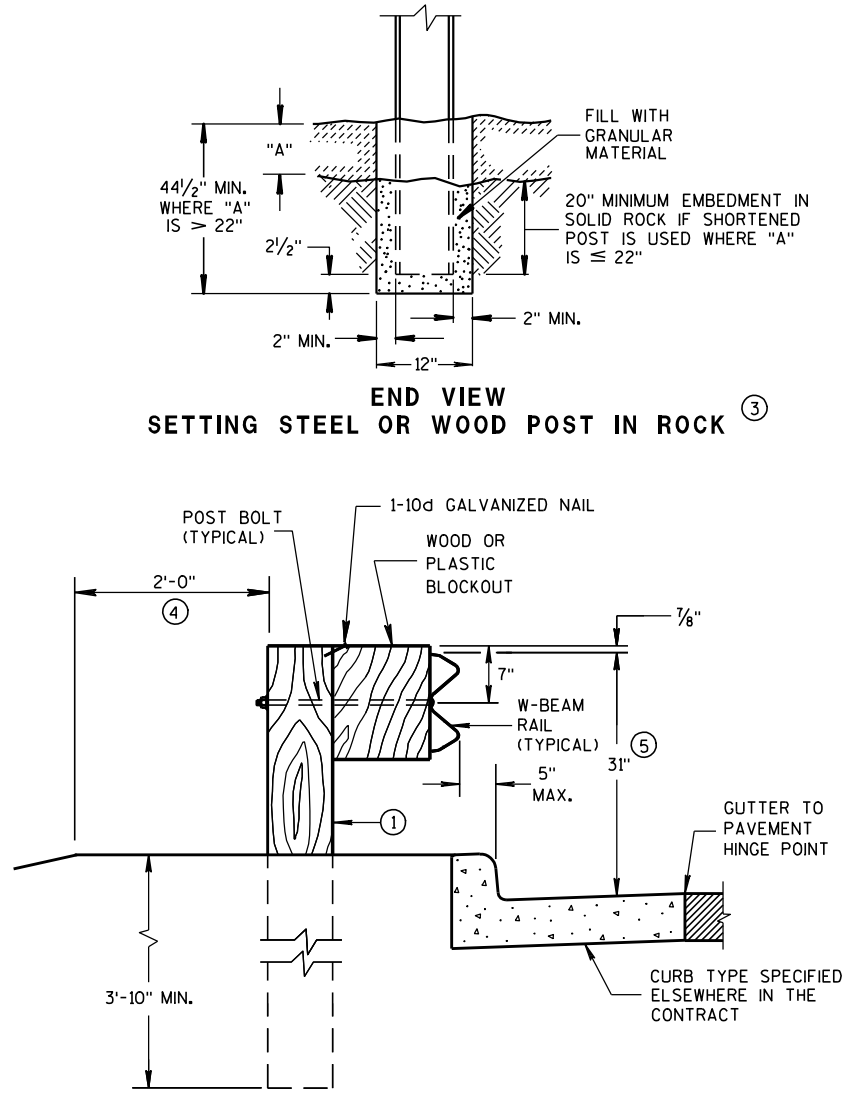
APPROVED
10/16/02 /S/ Beth Cannestra
DATE
FHWA CHIEF ROADWAY DEVELOPMENT ENGINEER

GENERAL NOTES

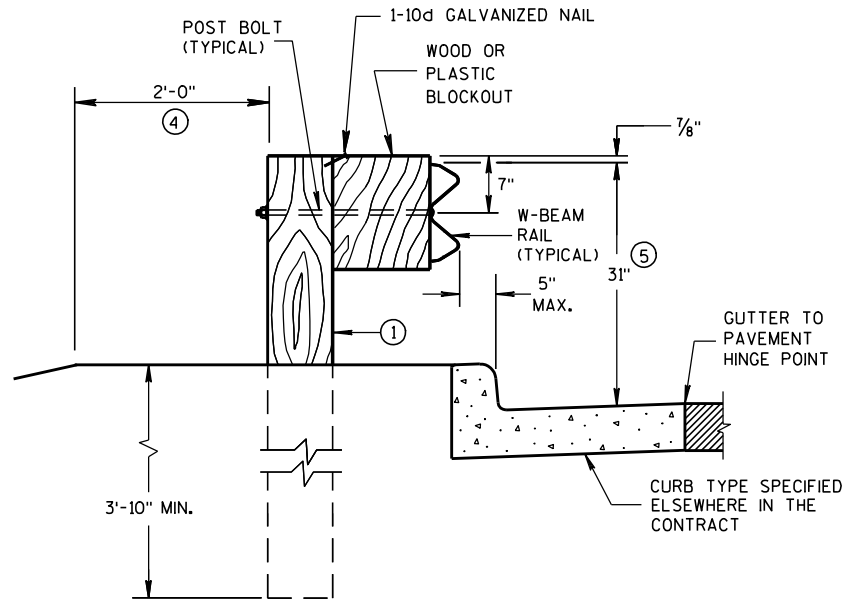
- ① WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- ③ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AND INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- ④ WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- ⑤ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".



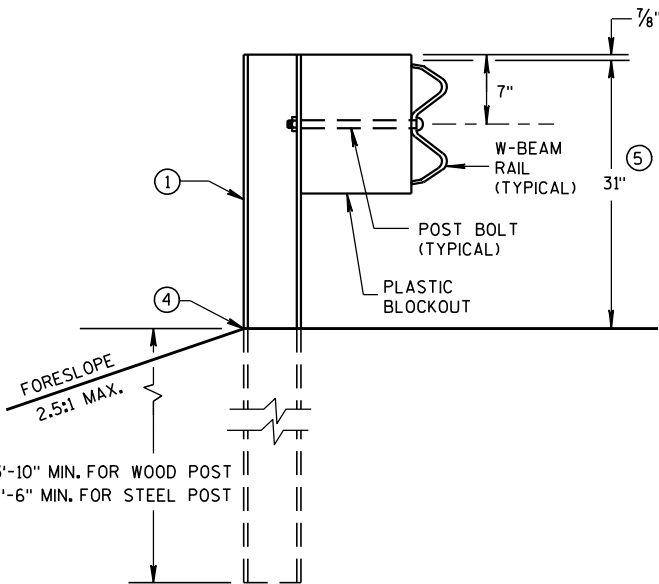
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



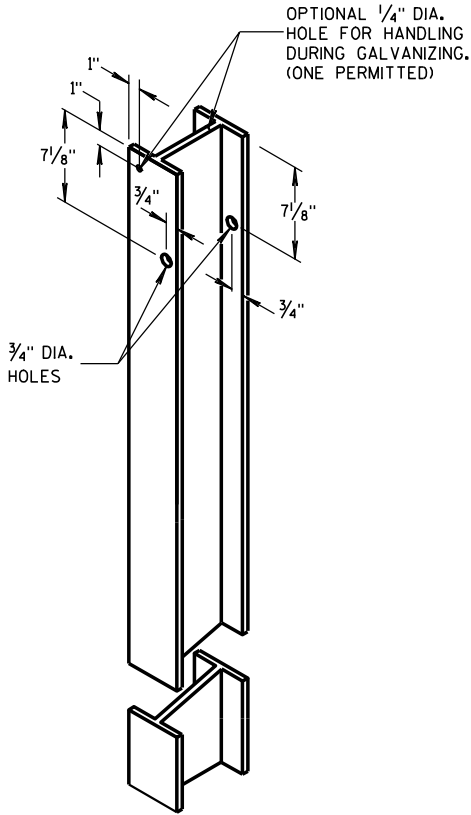
END VIEW
SETTING STEEL OR WOOD POST IN ROCK ③



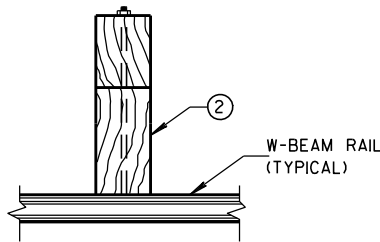
END VIEW
LOCATED ALONG A CURBED ROADWAY



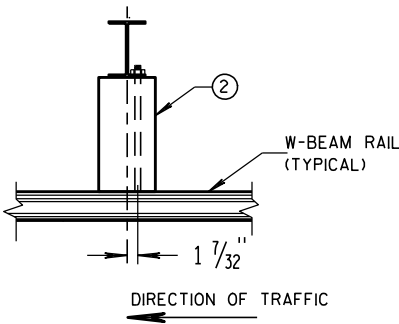
END VIEW
MGS LONGER POST AT HALFPST SPACING W BEAM (K)



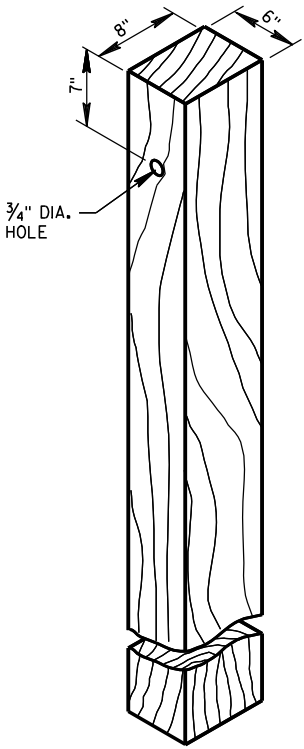
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



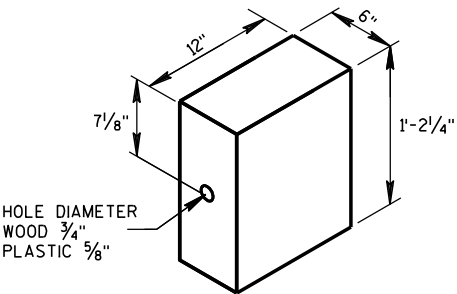
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



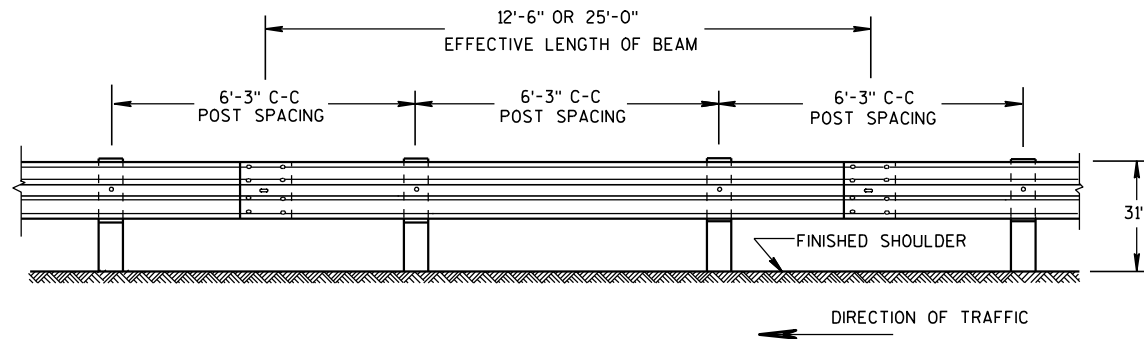
WOOD POST
(6" X 8") NOMINAL ①



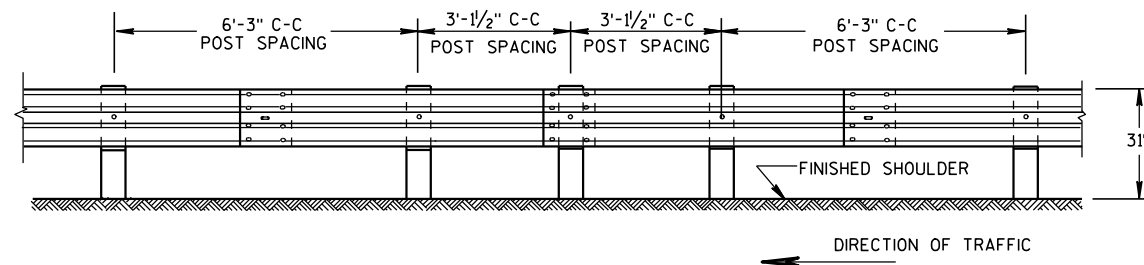
WOOD OR
PLASTIC BLOCKOUT ②

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

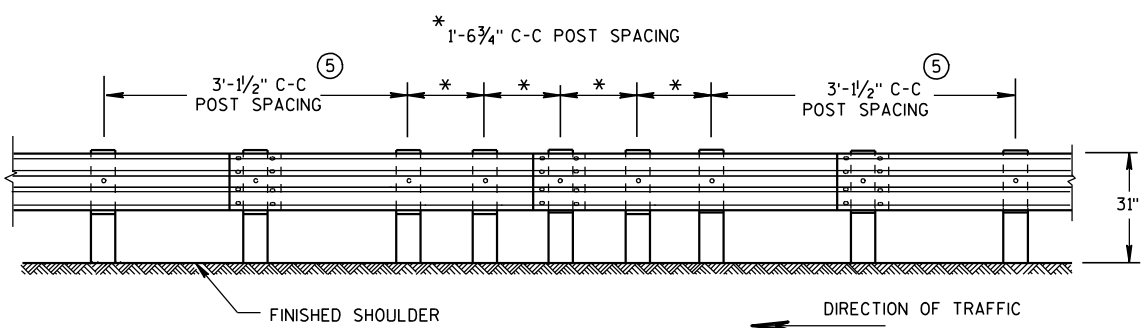
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



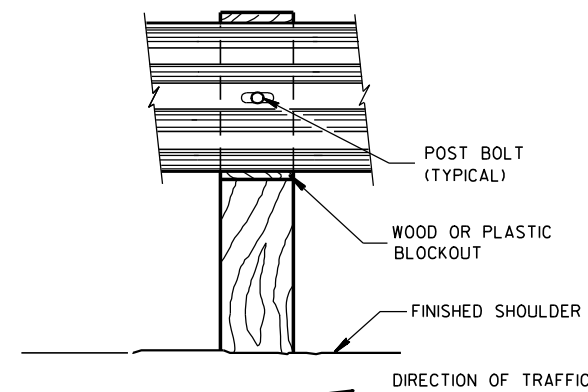
FRONT VIEW
POST SPACING STANDARD INSTALLATION



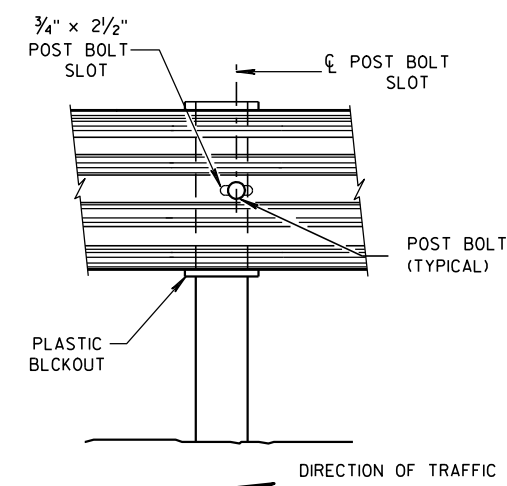
FRONT VIEW
**HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)**



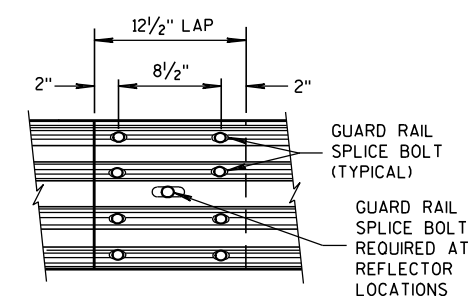
FRONT VIEW
QUARTER POST SPACING (QS)



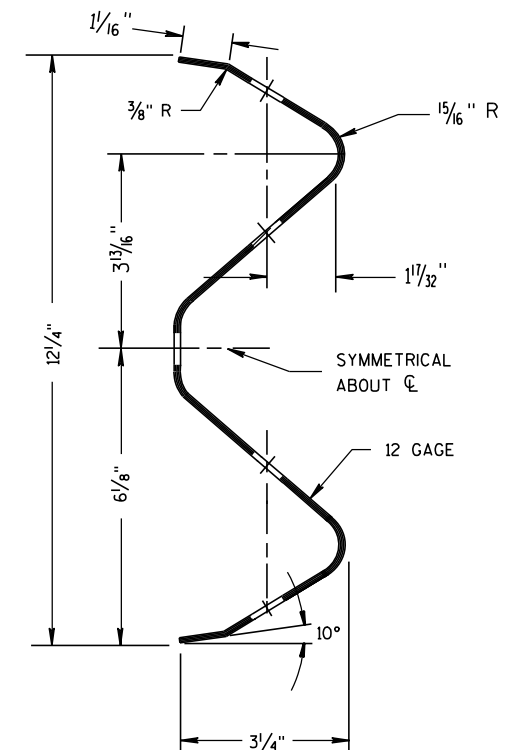
FRONT VIEW AT WOOD POST



FRONT VIEW AT STEEL POST



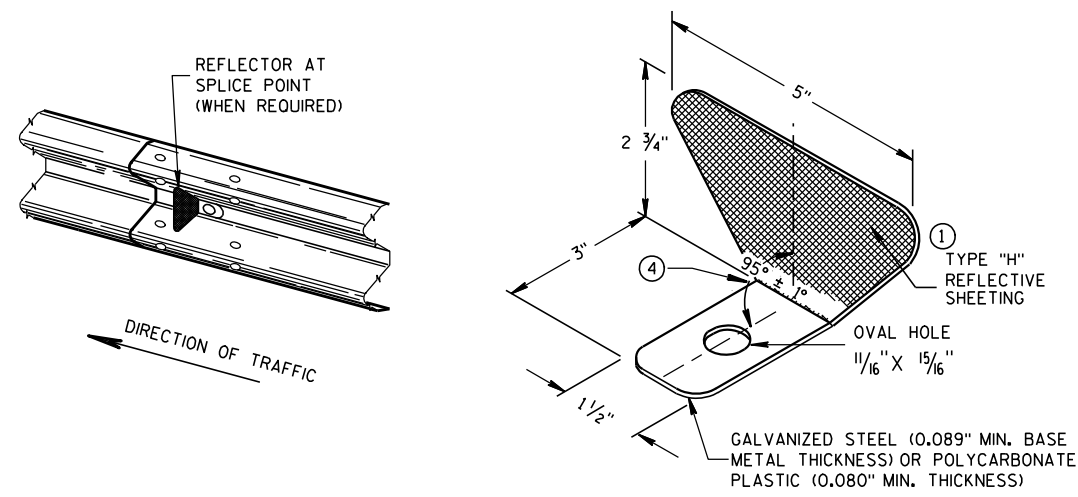
**FRONT VIEW
MID-SPAN BEAM SPLICE**



SECTION THRU W-BEAM RAIL

REFLECTOR SPACING

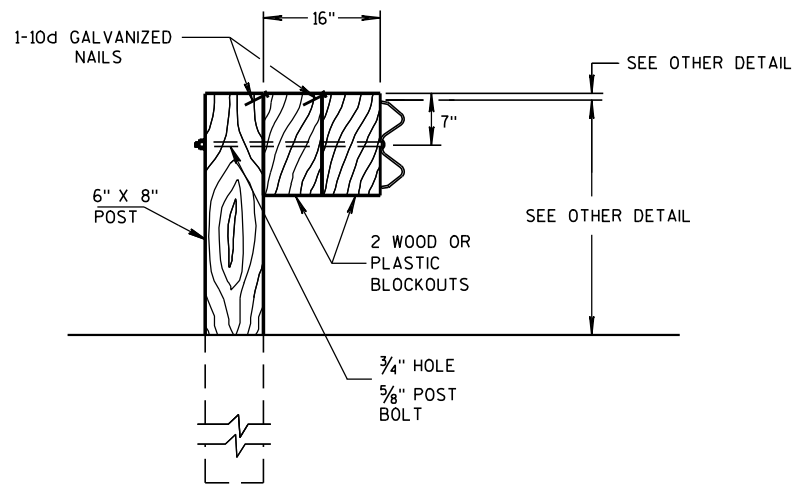
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2	



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

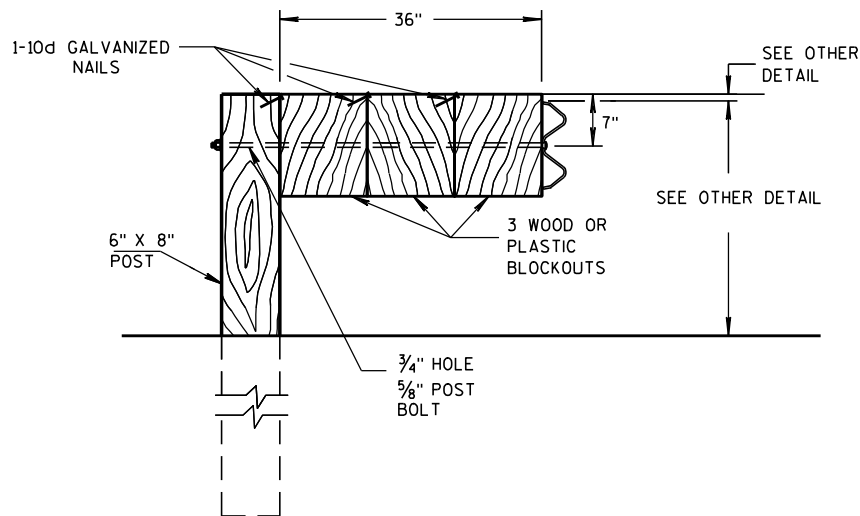
GENERAL NOTES

- 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° ± 1° FOR TWO-SIDED REFLECTORS.
 - 5 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.
- POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.
- GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



DETAIL FOR 16" BLOCKOUT DEPTH

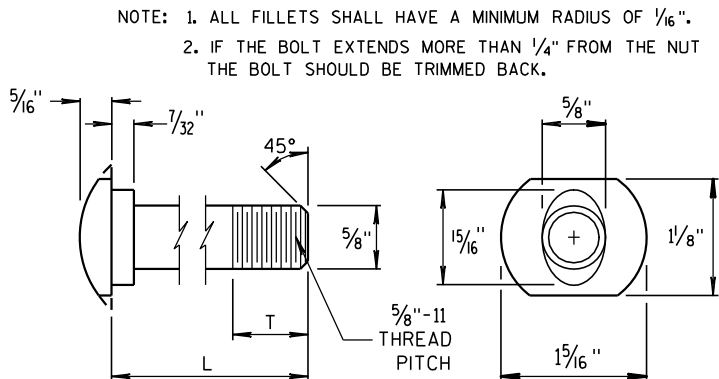
IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



DETAIL FOR 36" BLOCKOUT DEPTH

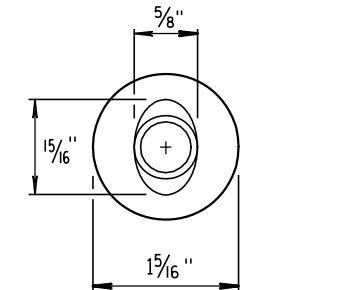
NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

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.

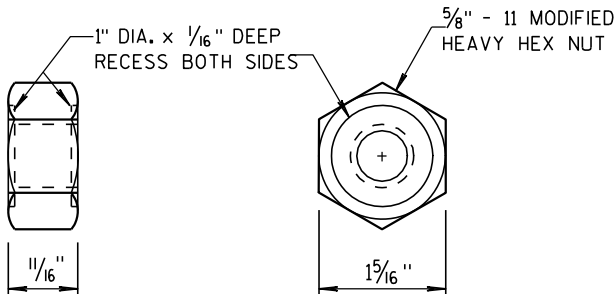


POST BOLT TABLE

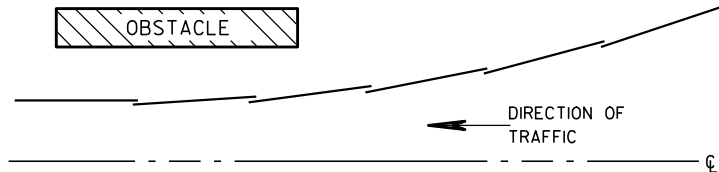
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



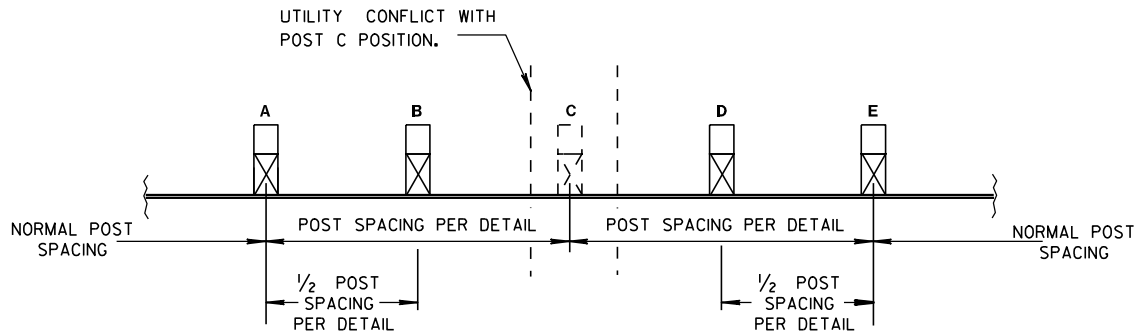
ALTERNATE BOLT HEAD



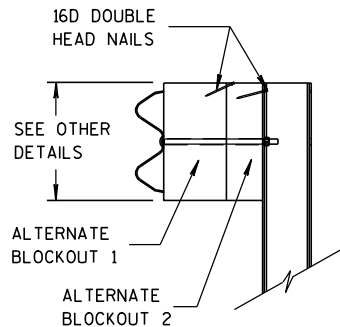
POST BOLT AND RECESS NUT



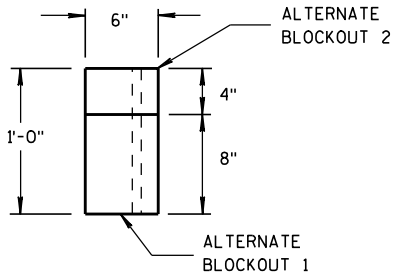
PLAN VIEW BEAM LAPPING DETAIL



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

FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

GENERAL NOTES

- (A) THE SLOPE IN THE AREA BOUNDED BY THE EXTENDED VEHICLE RUNOUT PATH (EVRP), THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.
- (B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.
- (C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.
- (D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.
- (E) SHEETING IS ATTACHED TO 0.040 ALUMINUM SHEET AND ATTACHED TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER OF E.A.T.
- (F) 1/2" DIAMETER X 3" LONG LAG BOLT AND WASHER.
- (H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.
- (I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

SEE SDD 14B42 FOR MORE INFORMATION.

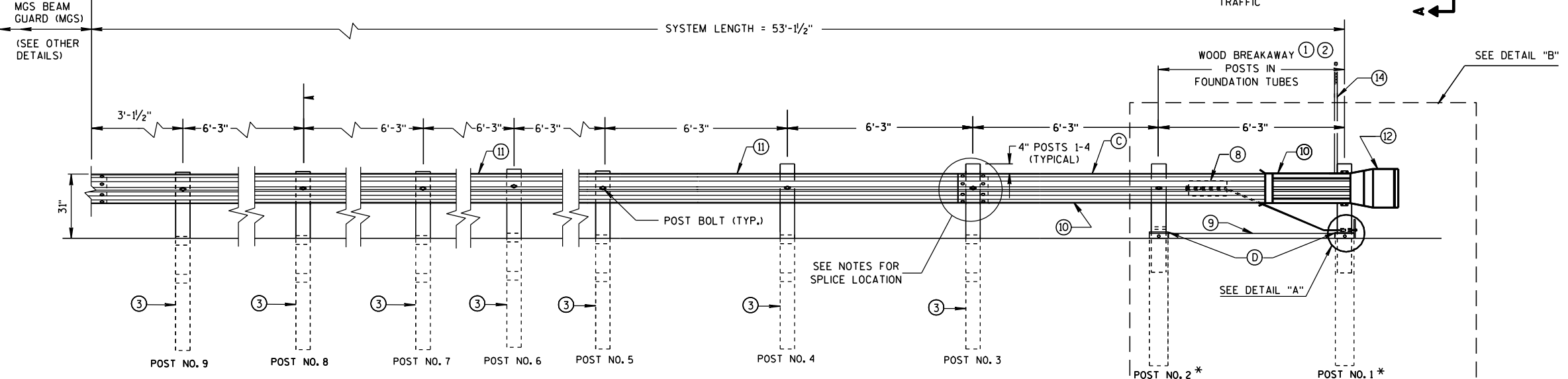
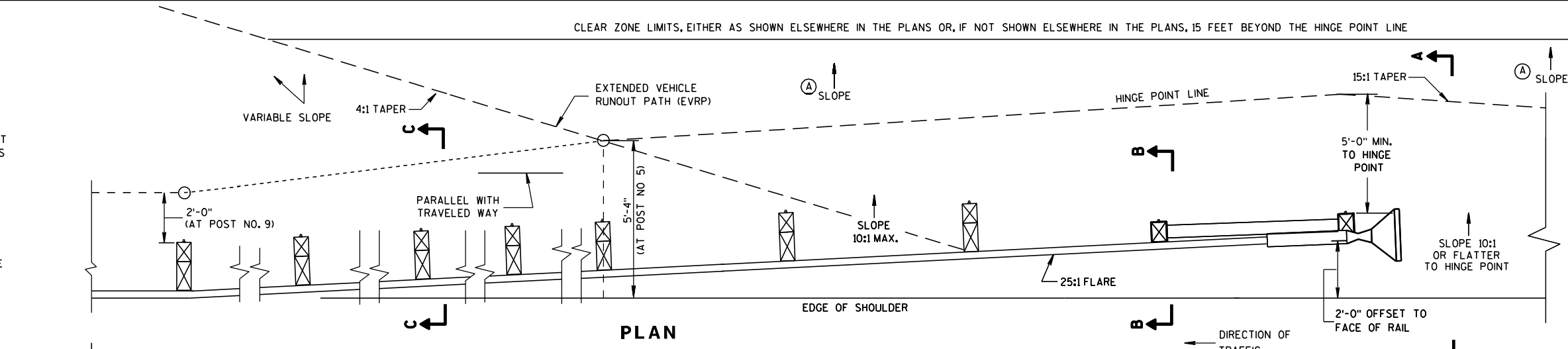
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

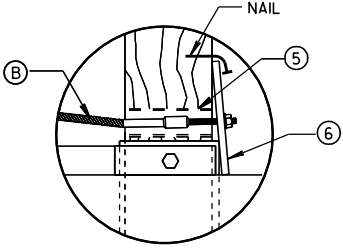
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

PATTERN AND COLORS ON REFLECTIVE SHEETING TYPE H ARE TO CONFORM TO OM3-L OR OM3-R OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

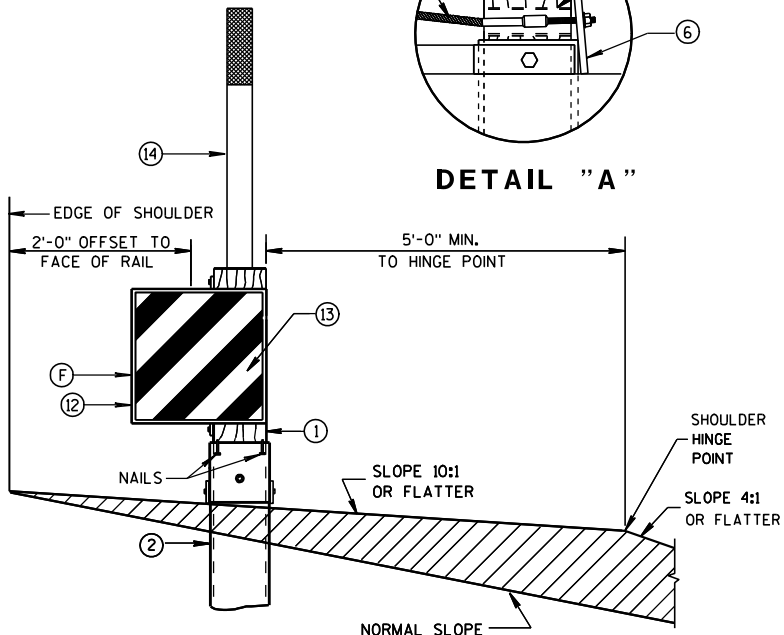
THE CENTER OF THE UPPER 3/2" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE ($\pm \frac{3}{4}$ ")



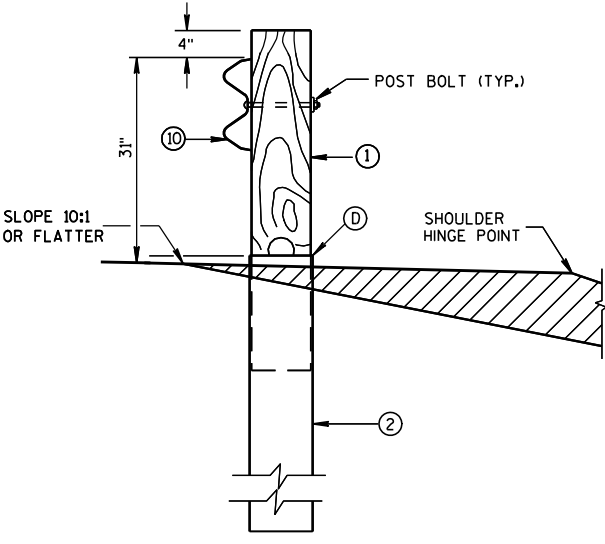
ELEVATION



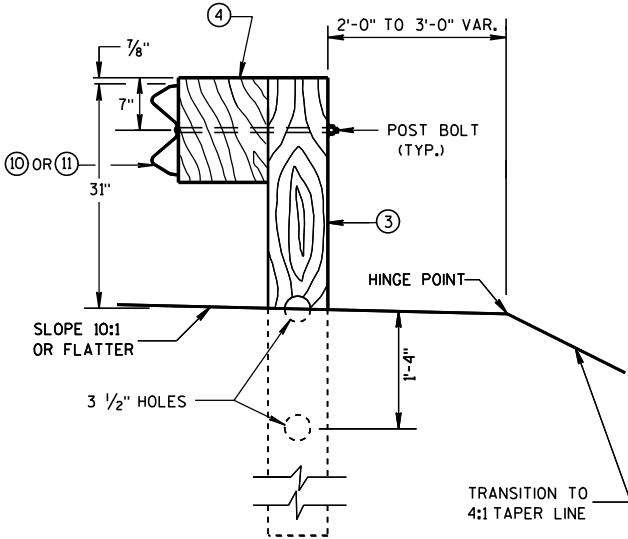
DETAIL "A"



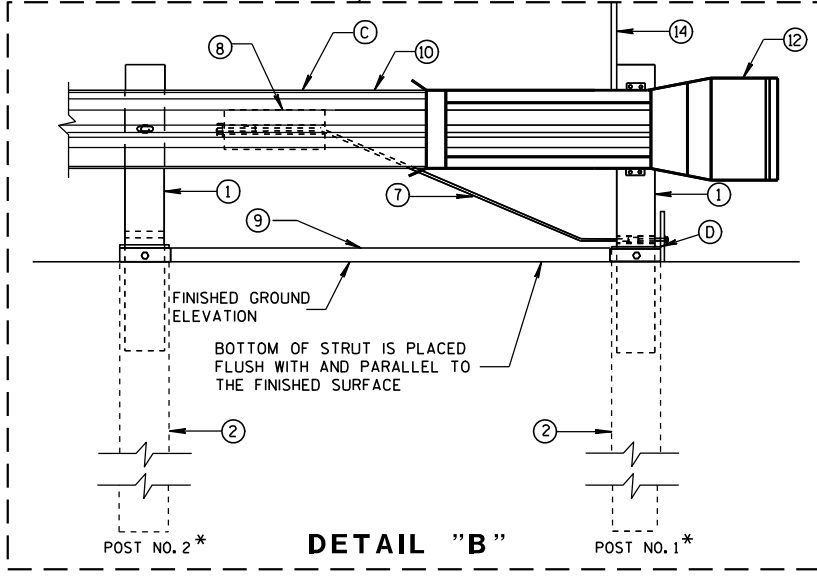
SECTION A-A
TYPICAL AT POST NO. 1*



SECTION B-B
TYPICAL AT POST NO. 2*



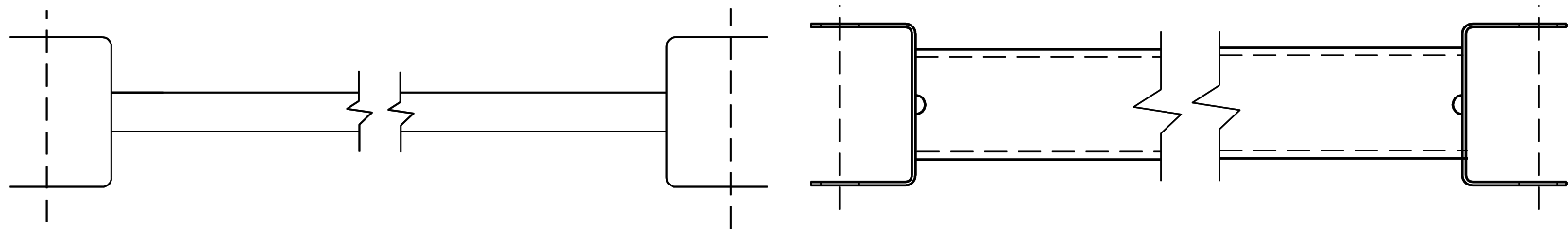
SECTION C-C
TYPICAL AT POST NOS. 3-9



DETAIL "B"

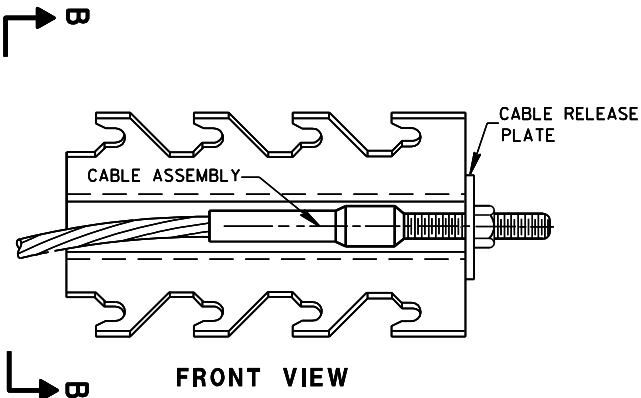
MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

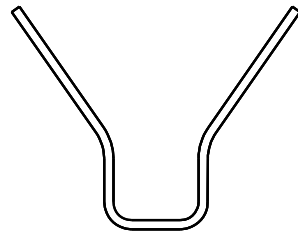


GENERIC GROUND STRUT

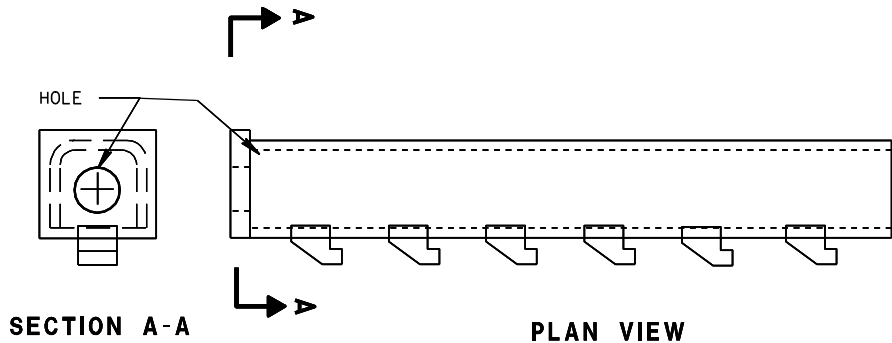
9 H



FRONT VIEW



SECTION B-B



PLAN VIEW

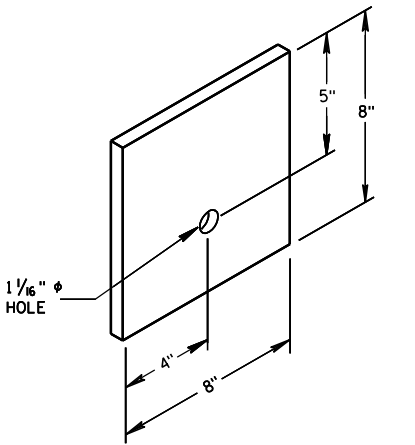
SECTION A-A

GENERIC ANCHOR CABLE BOX

8 H

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)

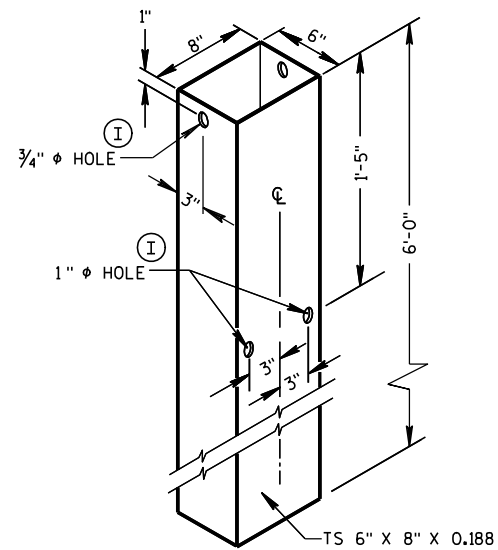


BEARING PLATE

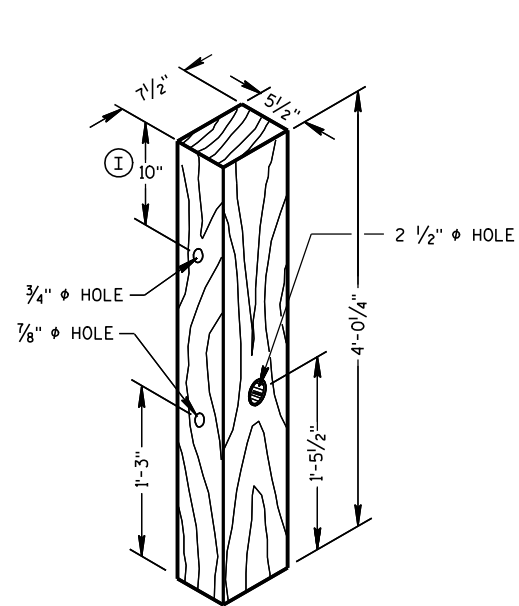
6

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

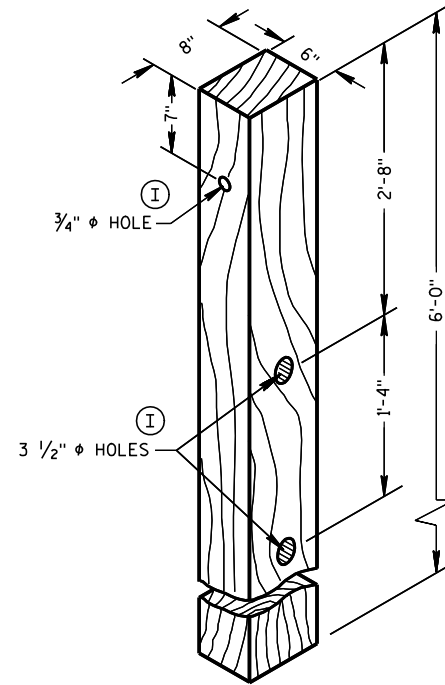
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



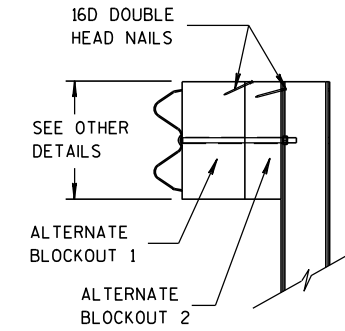
FOUNDATION TUBE ②



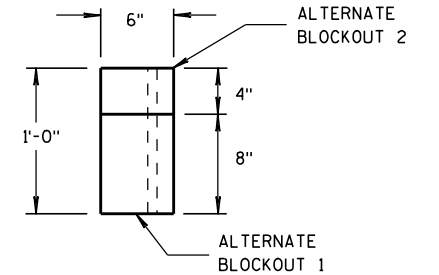
WOOD BREAKAWAY POST ①



WOOD CRT POST ③

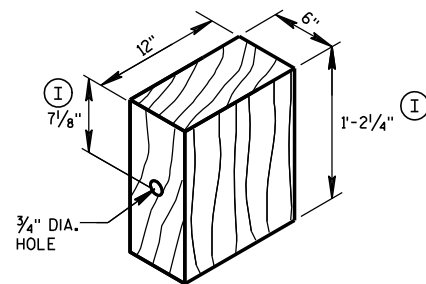


SIDE VIEW



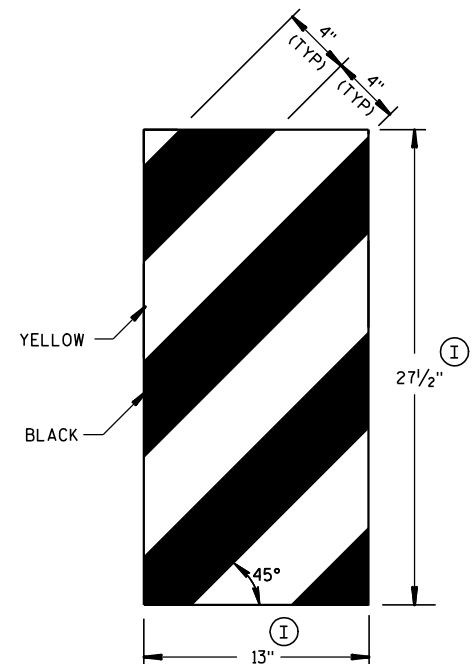
TOP VIEW

ALTERNATE WOOD
BLOCKOUT DETAIL

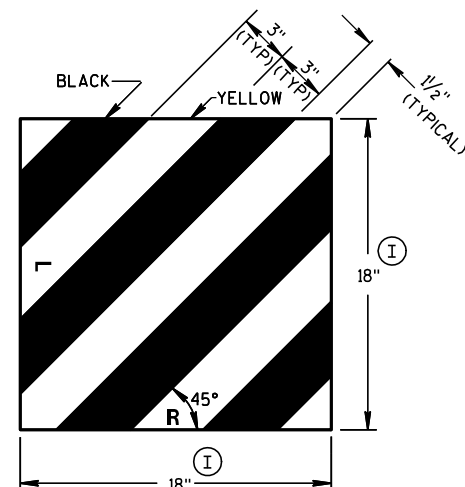


WOOD BLOCKOUT ④

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



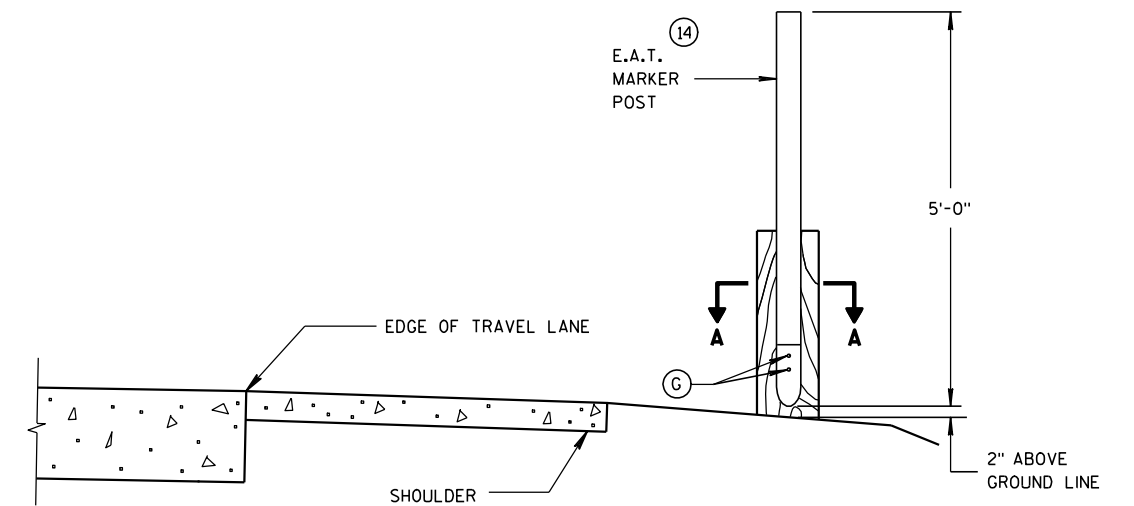
GENERIC REFLECTIVE SHEETING ⑬ ④



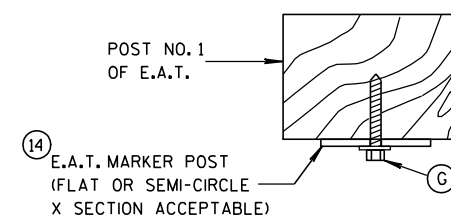
FRONT VIEW

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

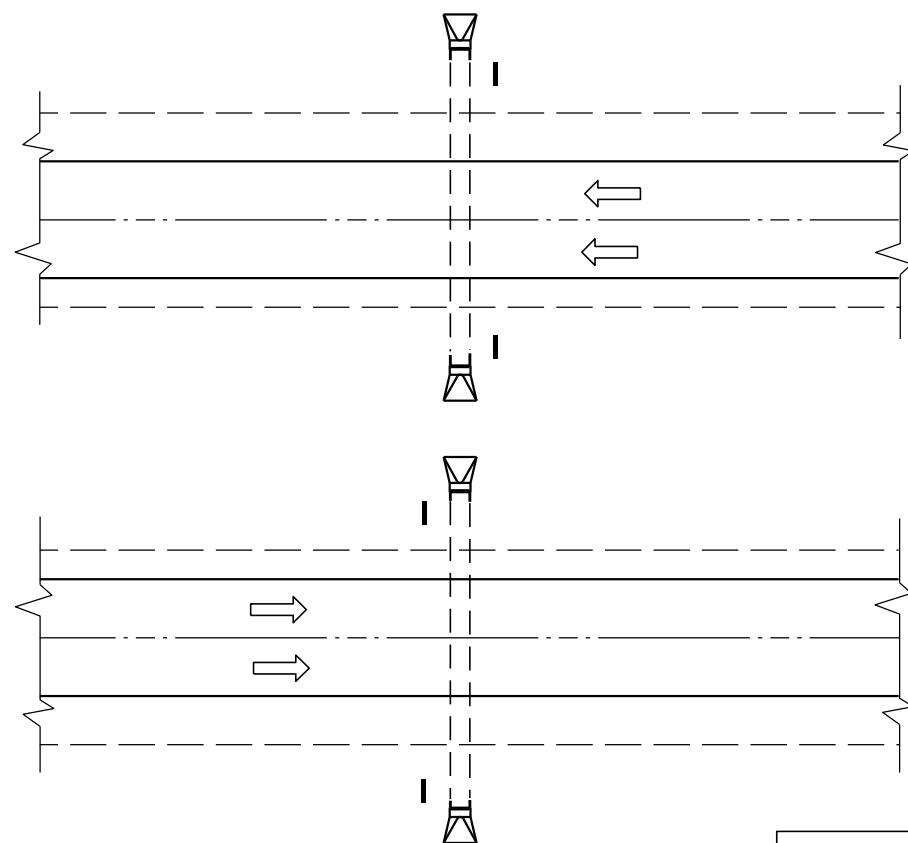
APPROVED

5/23/2011

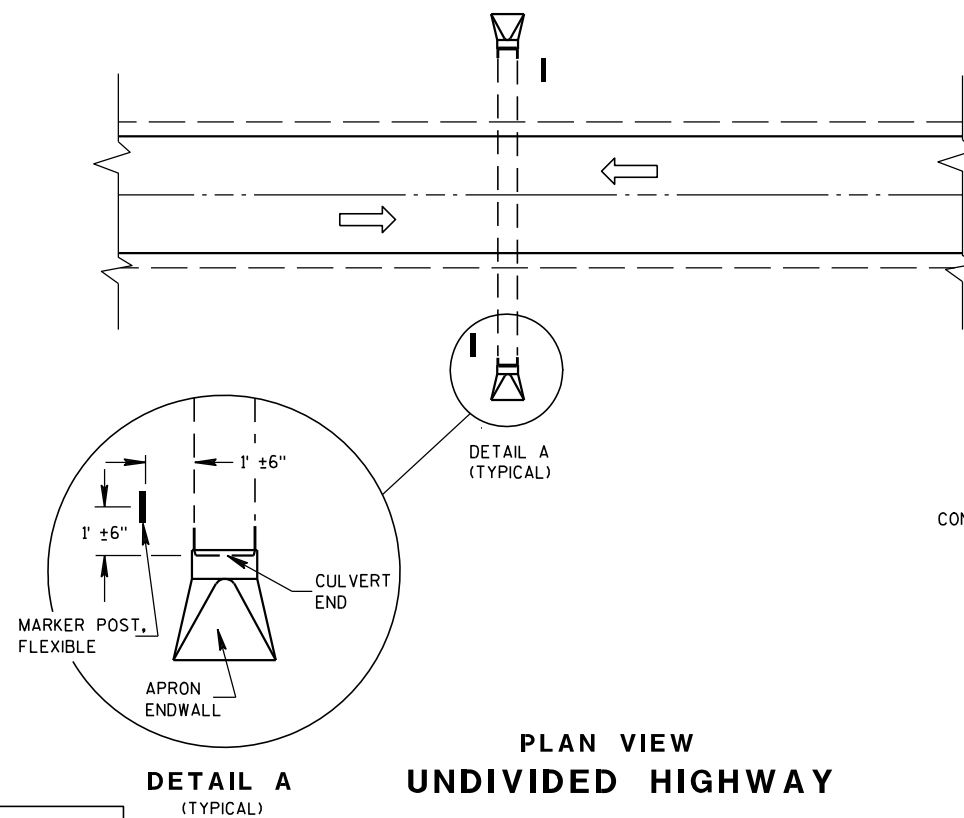
DATE

FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER

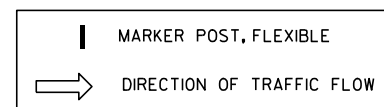


PLAN VIEW
DIVIDED HIGHWAY

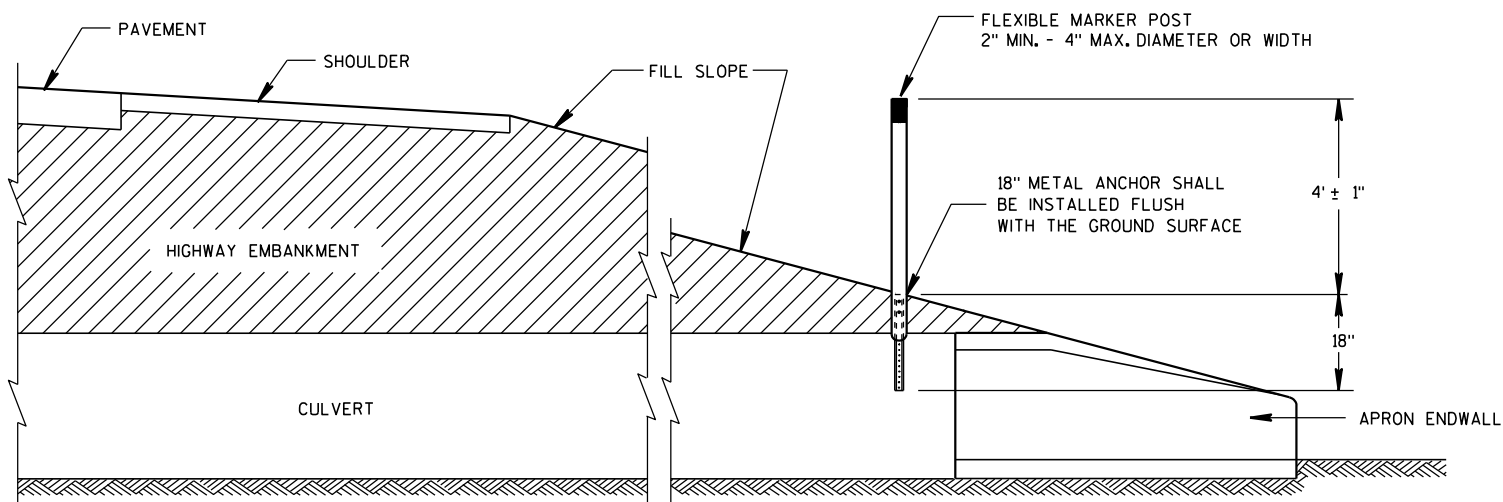


PLAN VIEW
UNDIVIDED HIGHWAY

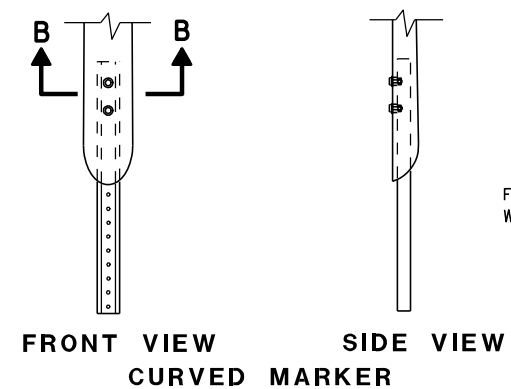
DETAIL A
(TYPICAL)



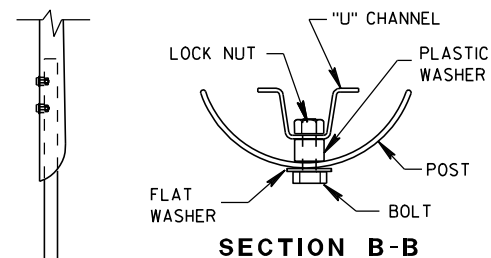
FLEXIBLE MARKER POST LOCATION



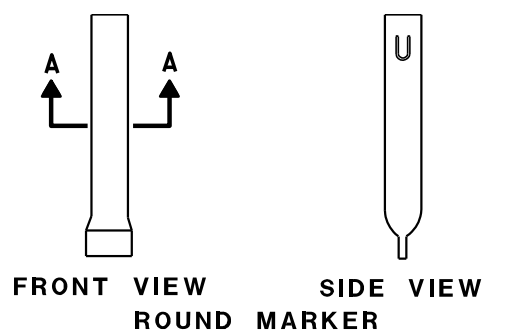
CROSS SECTION
FLEXIBLE MARKER POST



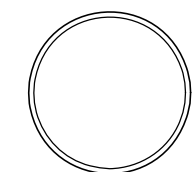
FRONT VIEW
CURVED MARKER



SECTION B-B



FRONT VIEW
ROUND MARKER

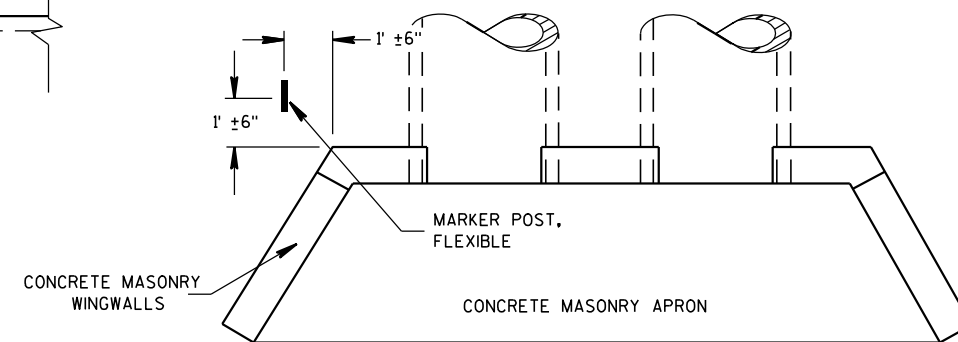


SECTION A-A

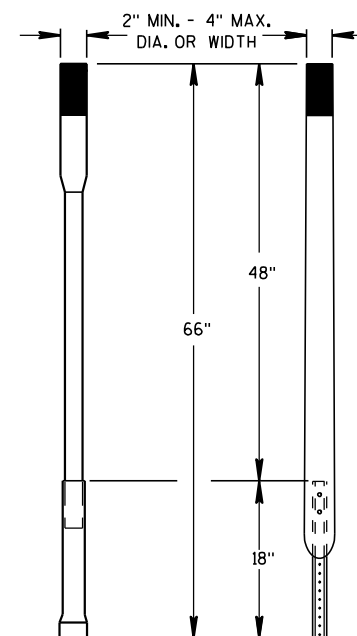
FLEXIBLE MARKER POST ANCHORS

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



ALTERNATE 1 ALTERNATE 2
FLEXIBLE MARKER POST

MARKER POST, FLEXIBLE,
FOR CULVERT END

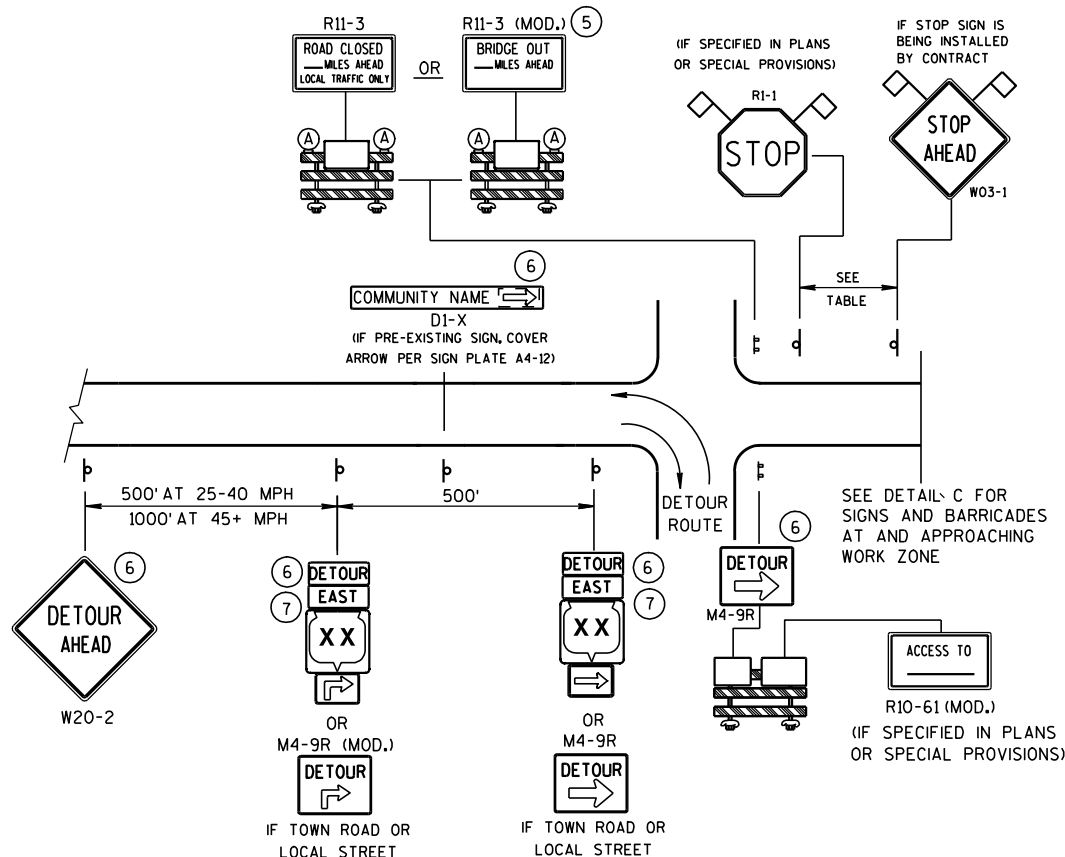
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/1/98
DATE

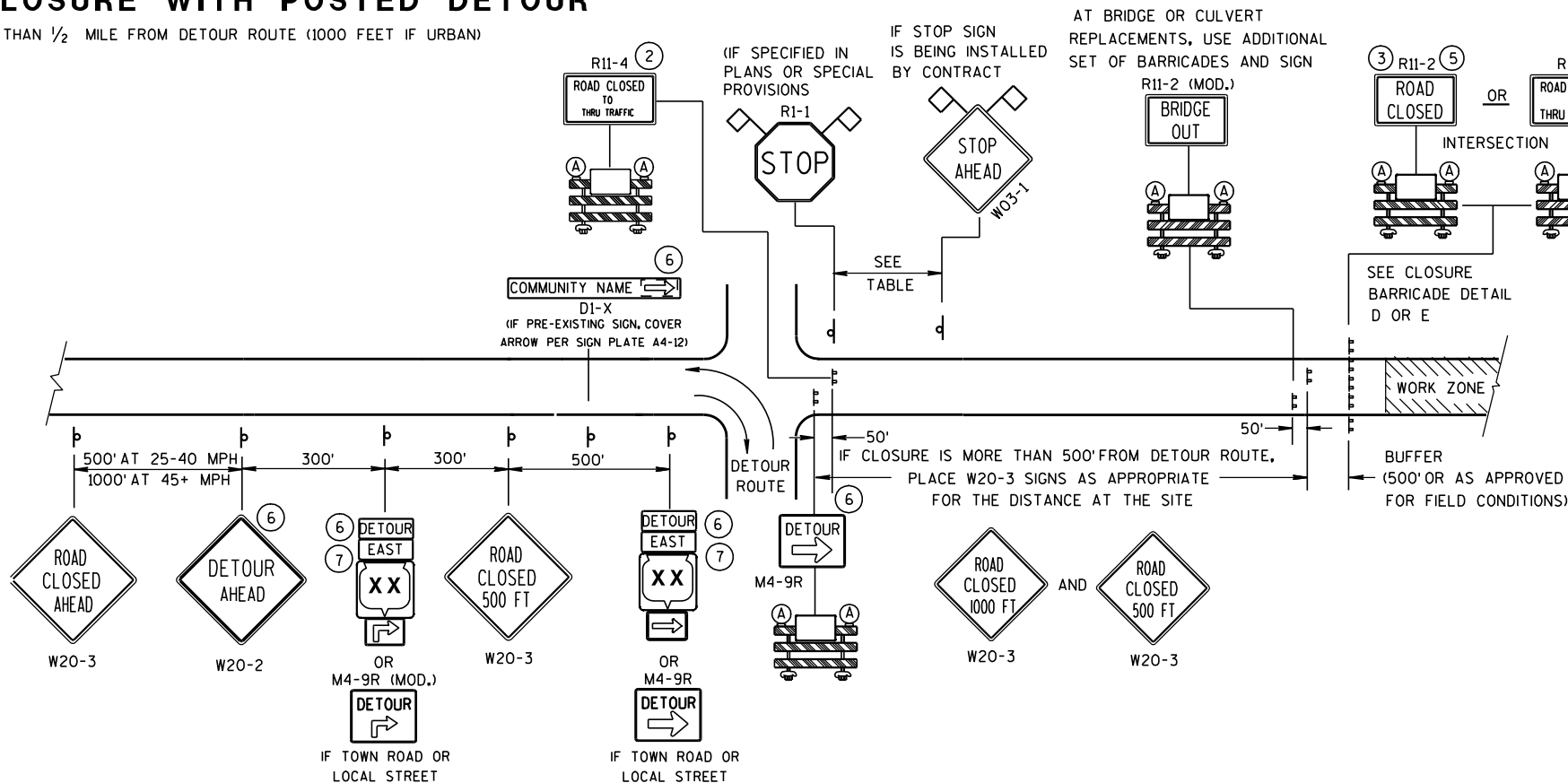
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA



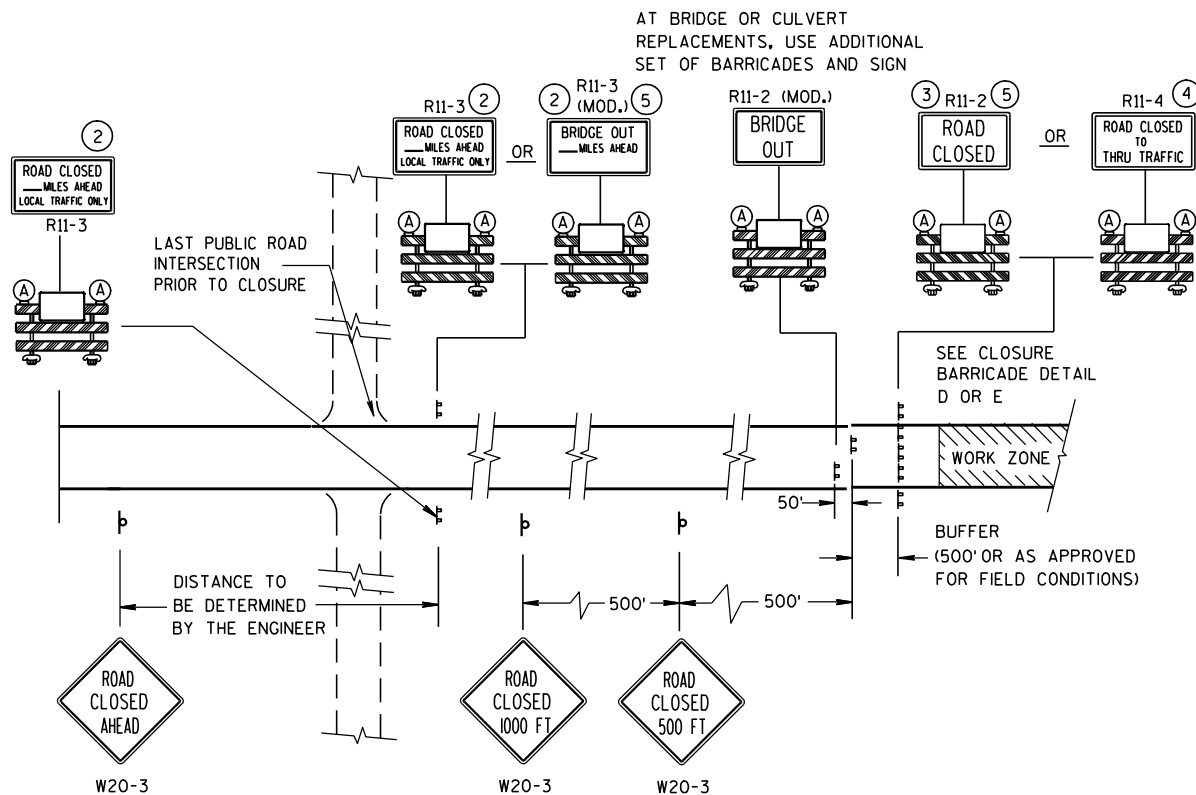
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

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

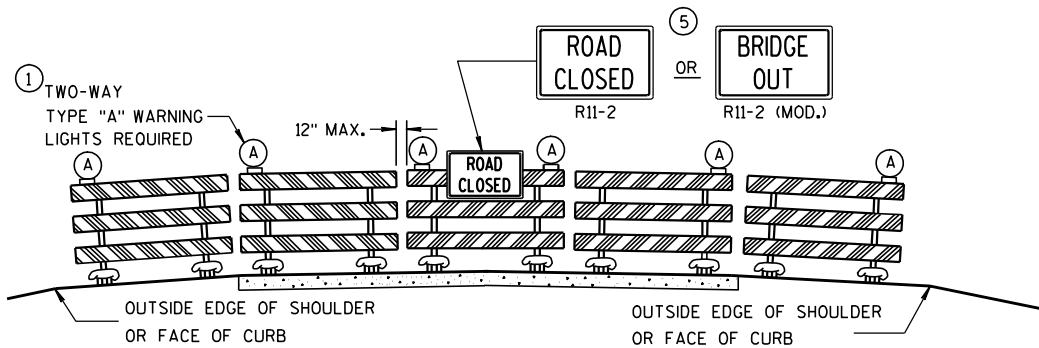
SEE SDD 15C2-4b
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

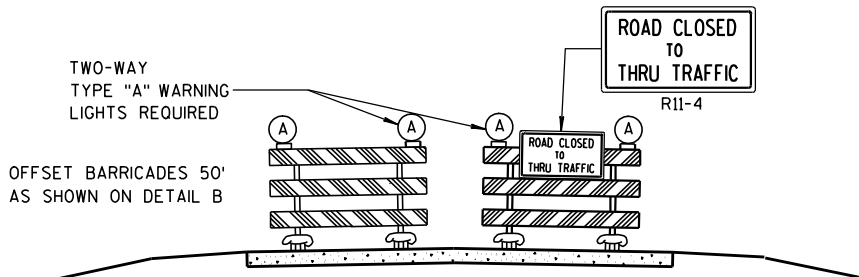
- POST MOUNTED SIGN
- TYPE III BARRICADES
- TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK ZONE
- DETOUR EAST M4-8 M3-X
- MI-4 OR MI-5A OR MI-6
- MO5-1 OR MO6-1
- FLAGS, 16" X 16" MIN., (ORANGE)

**BARRICADES AND SIGNS
FOR
MAINLINE CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW



DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW

SEE SDD 15C2-4a FOR LEGEND

GENERAL NOTES

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

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3, R11-4, R10-61 AND R1-1 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

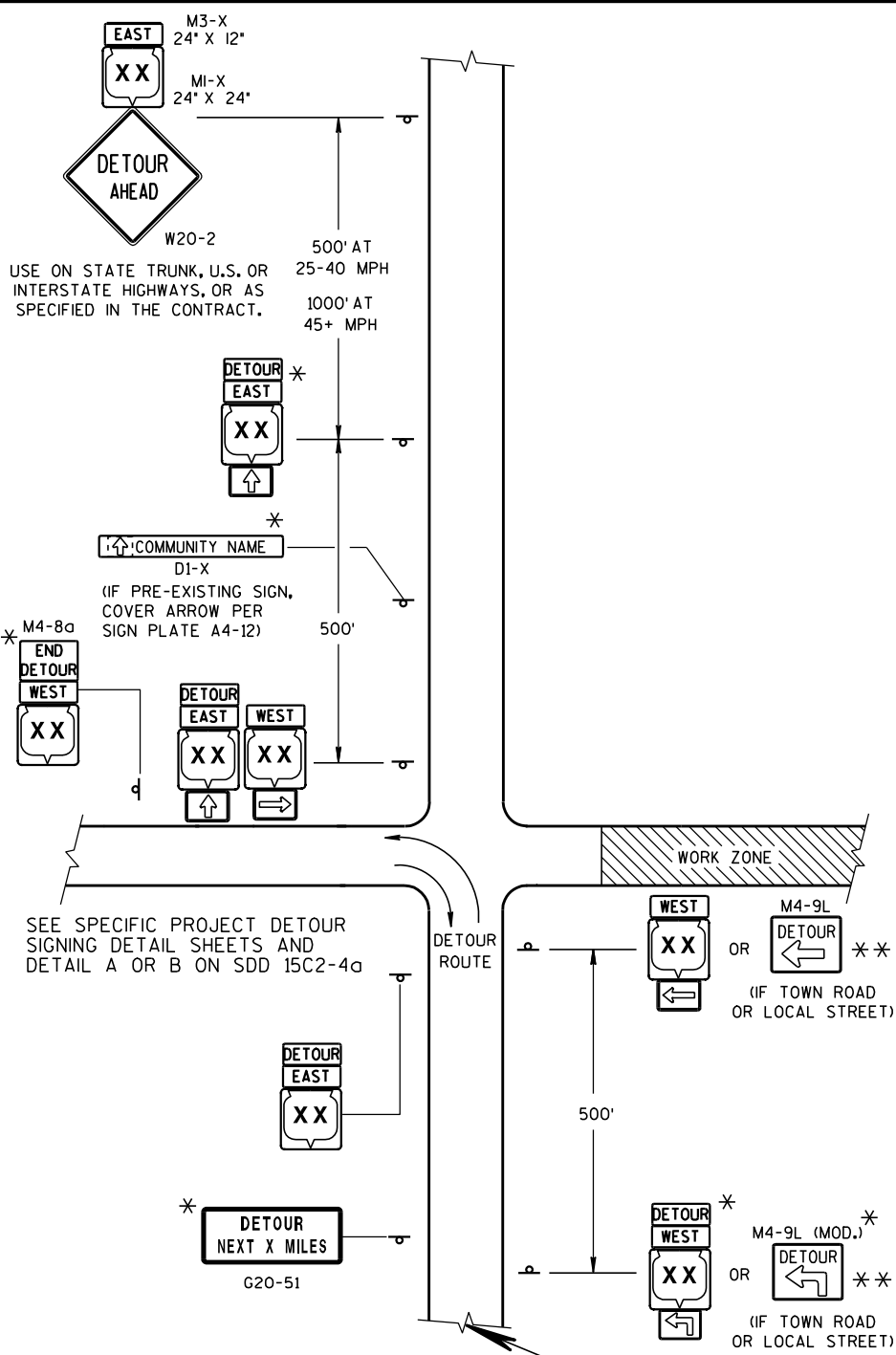
"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X AND M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).
- 2 THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- 3 FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- 4 FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- 5 FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- 6 INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- 7 "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
9/16/03 DATE	/S/ Thomas N. Notbohm CHIEF SIGNS AND MARKING ENGINEER
FHWA	



LEGEND

POST MOUNTED SIGN

WORK ZONE

DETOUR EAST M4-8 M3-X

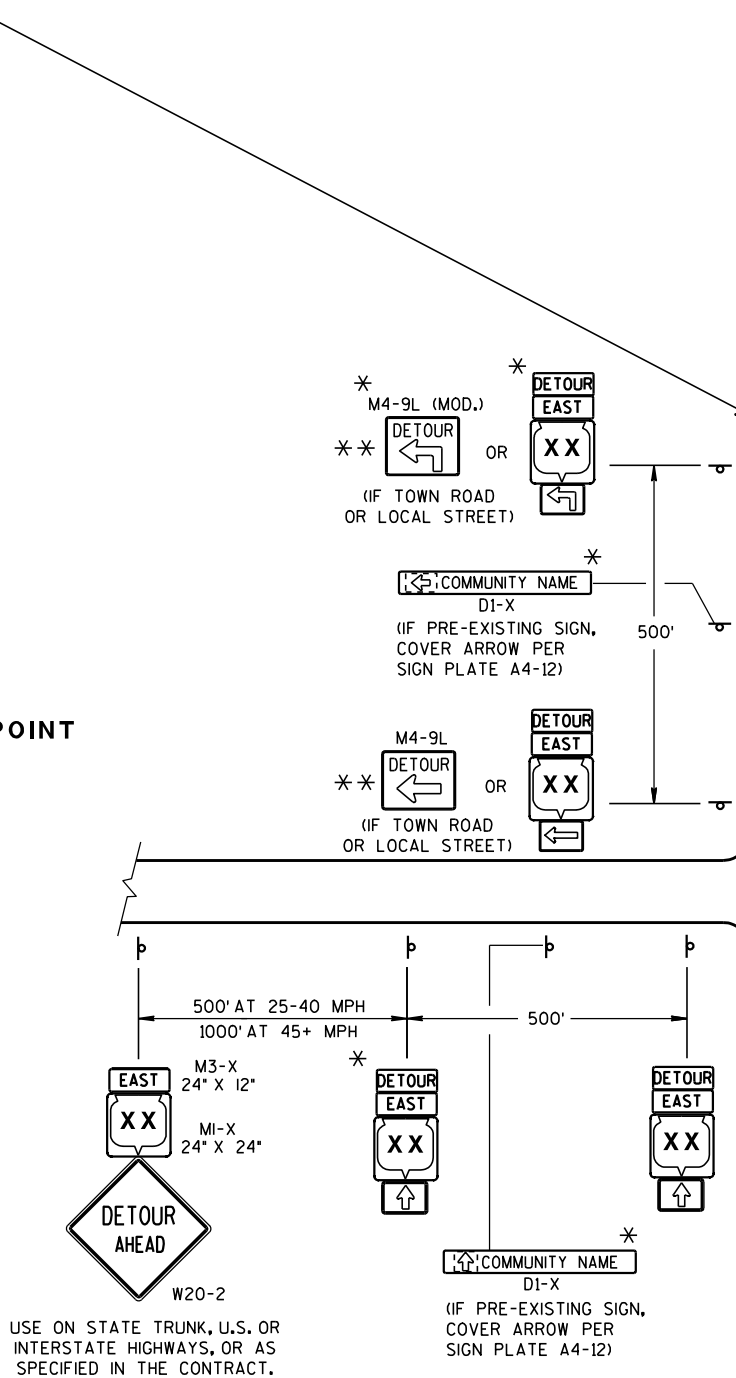
M1-4 OR COUNTY M1-5A OR M1-6

M05-1 OR M06-1 OR M06-1

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

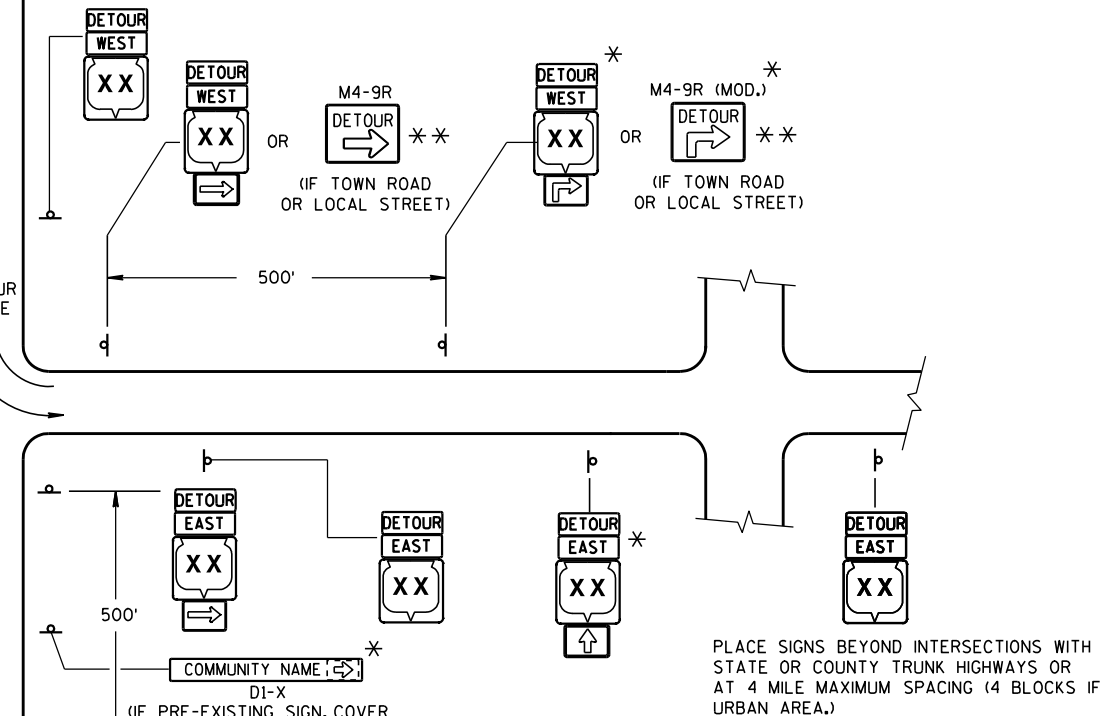
DETAIL F
DETOUR SIGNING



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 AND M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
 - M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
 - M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
 - 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.

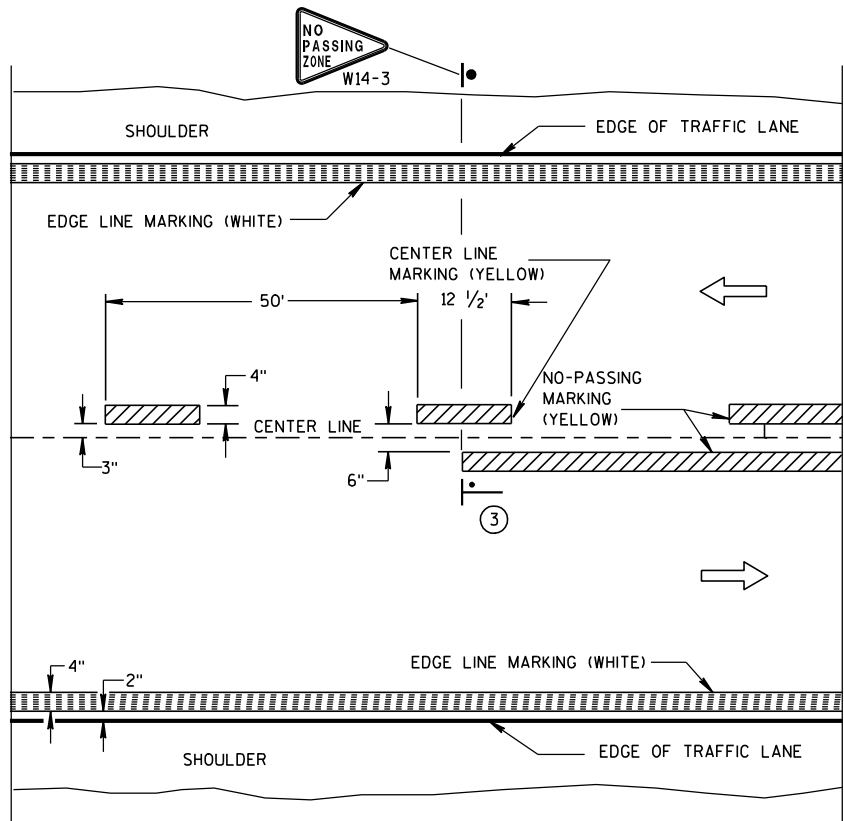


PLACE SIGNS BEYOND INTERSECTIONS WITH STATE OR COUNTY TRUNK HIGHWAYS OR AT 4 MILE MAXIMUM SPACING (4 BLOCKS IF URBAN AREA.)

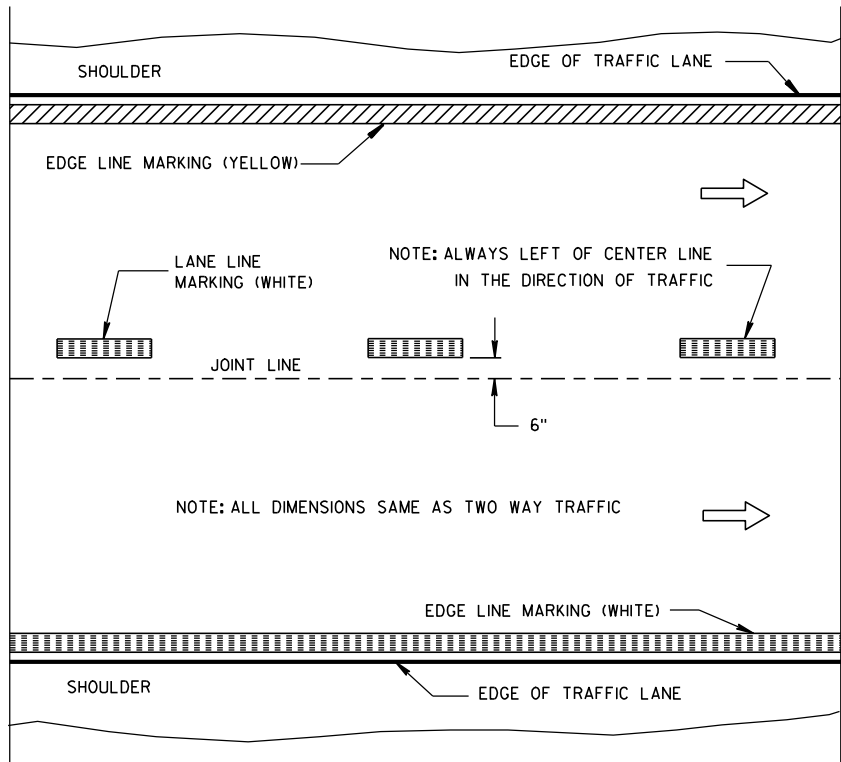
DETOUR SIGNING FOR
MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-16-03 DATE /S/ Thomas N. Notbohm
CHIEF SIGNS AND MARKING ENGINEER
FHWA

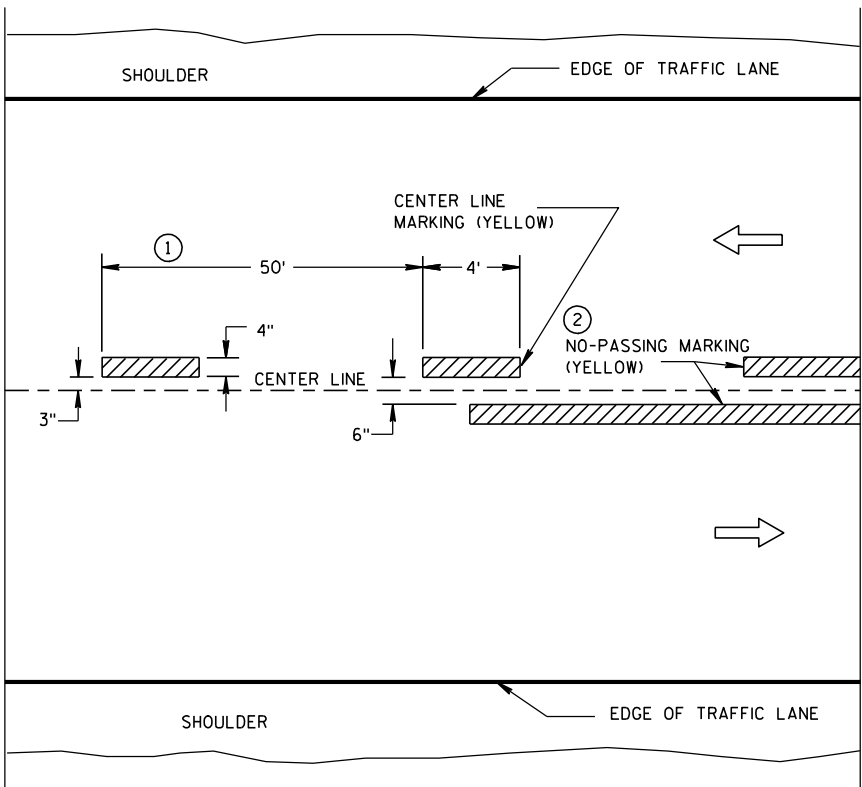


TWO WAY TRAFFIC

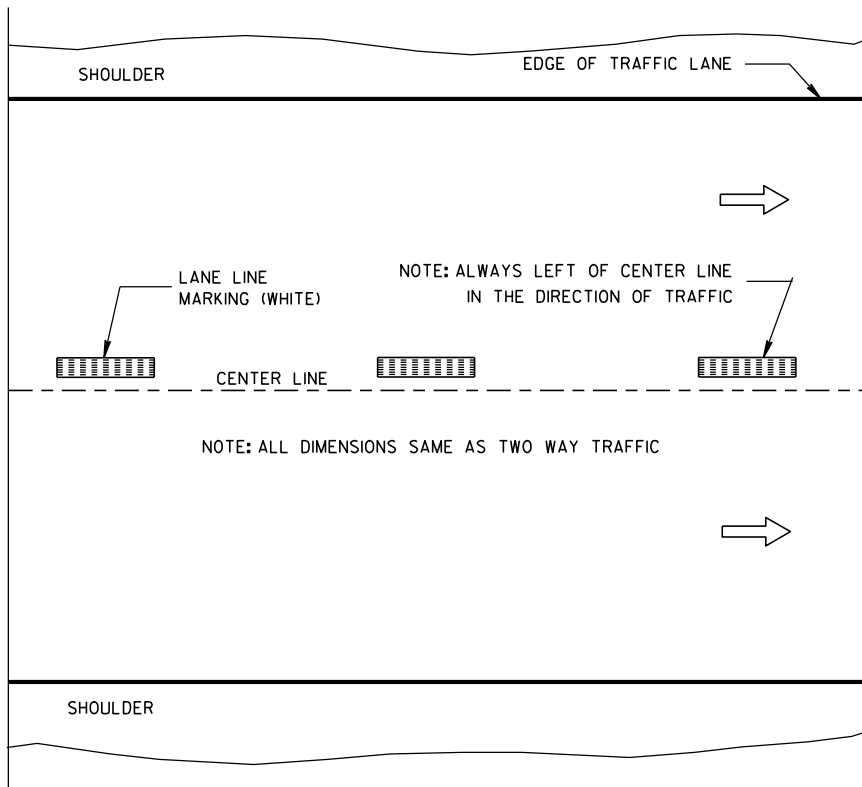


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

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

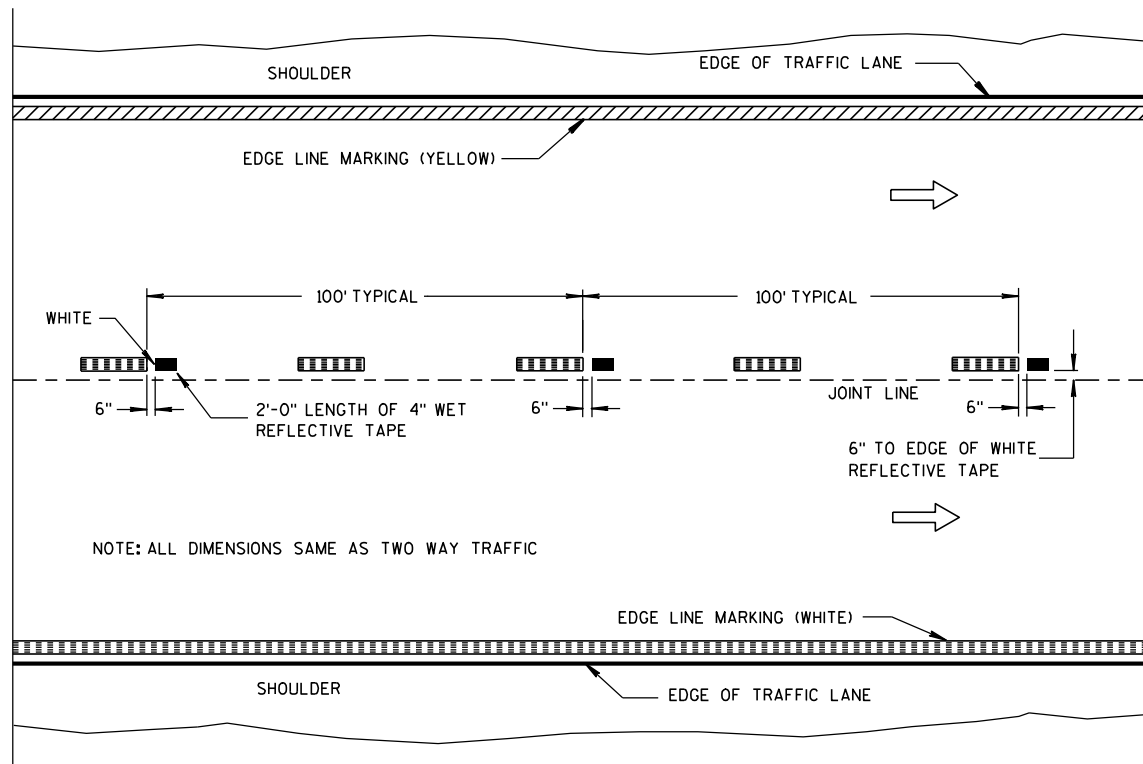
GENERAL NOTES

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.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

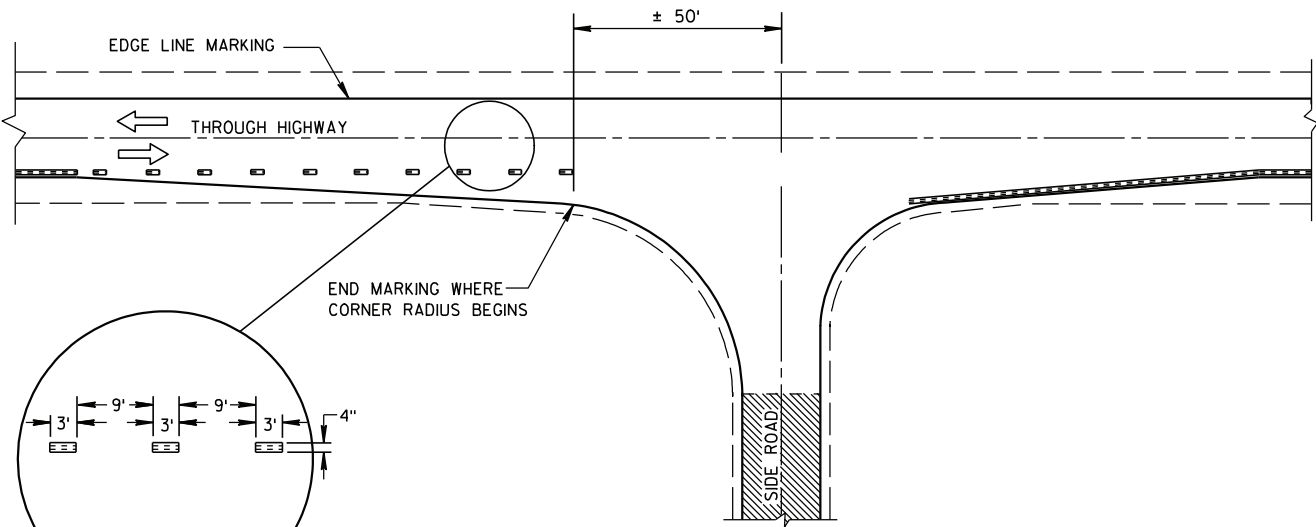
LEGEND

- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6-23-11 /S/ Thomas N. Notbohm
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



MINOR INTERSECTION WITHOUT CURBS

⑦

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

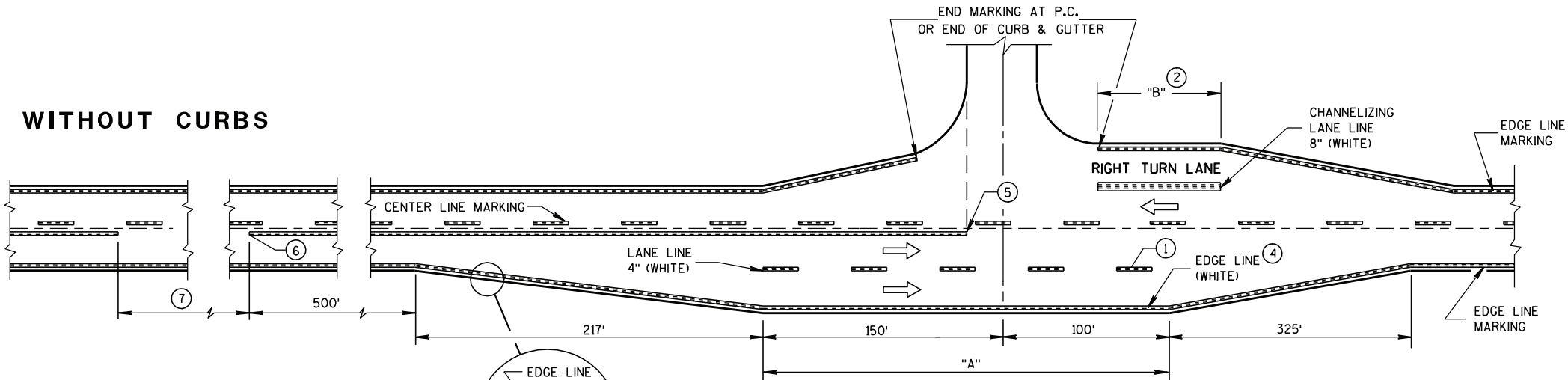
GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

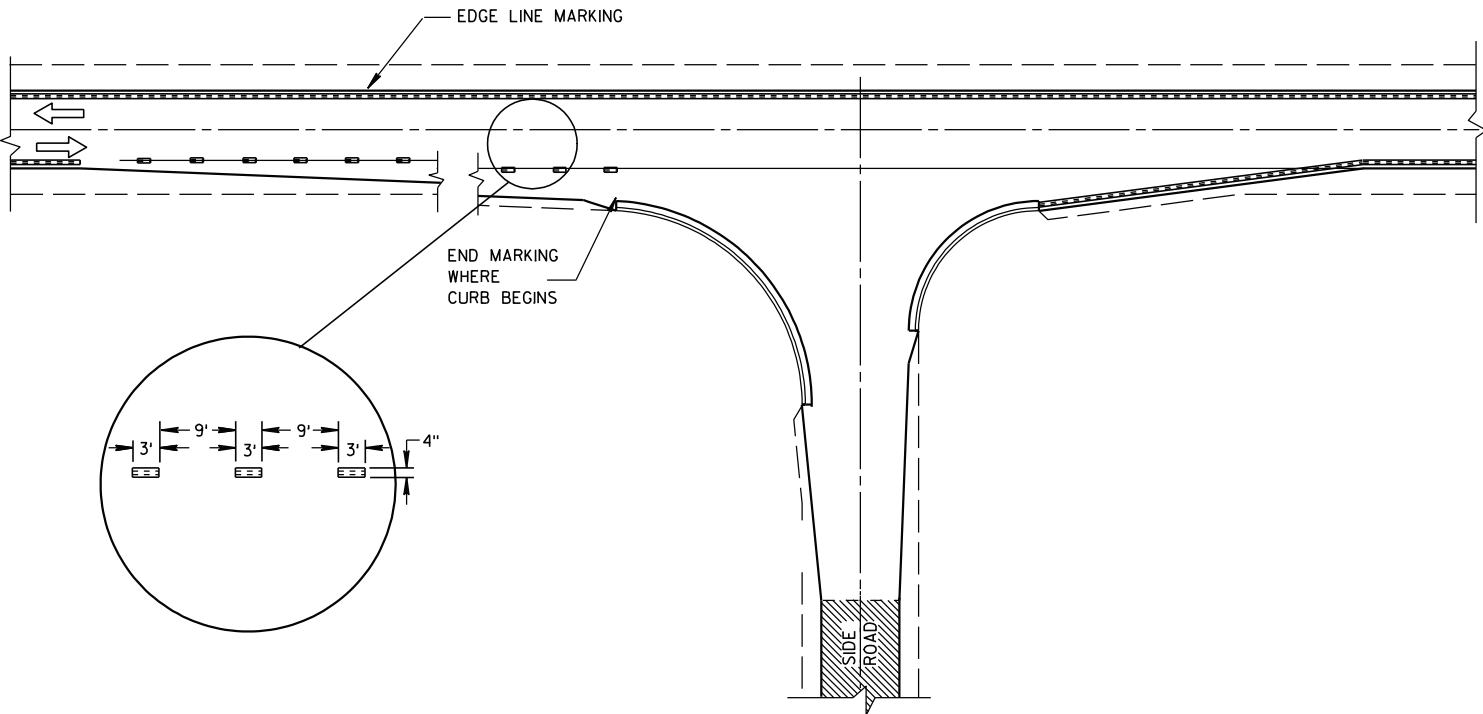
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP 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.

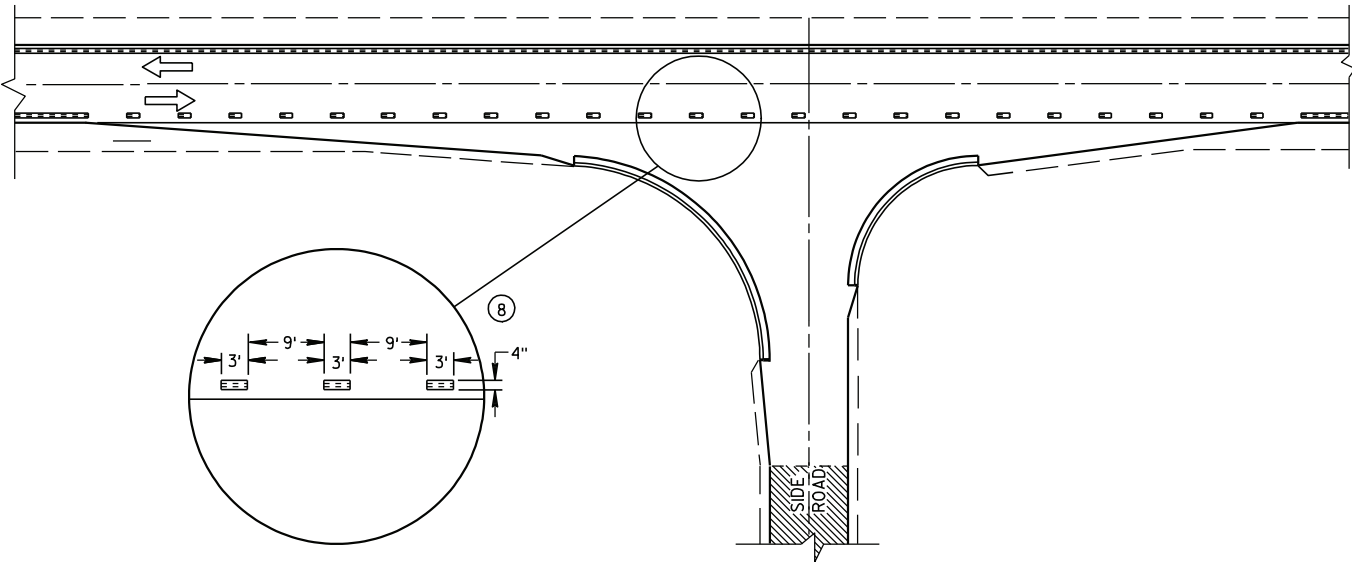
ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)



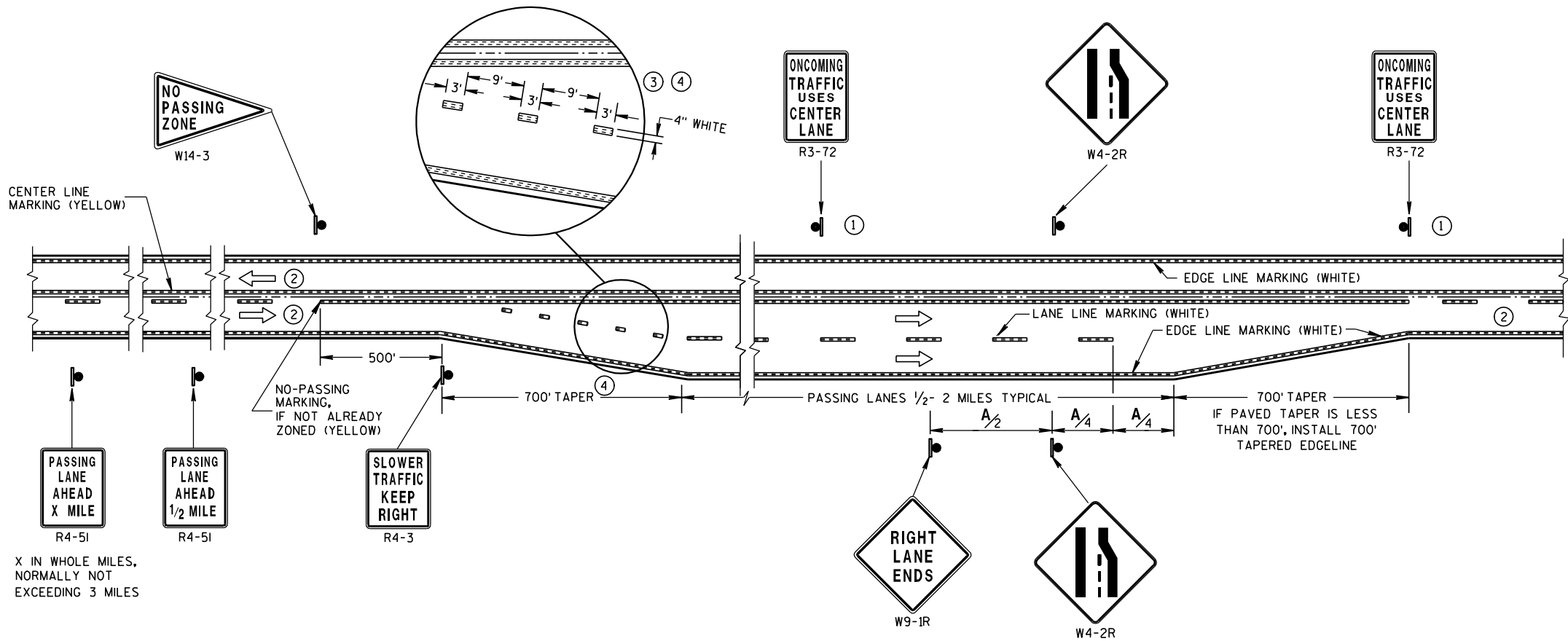
MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS
③ (FOR SPECIAL CONDITIONS AS SPECIFIED)

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



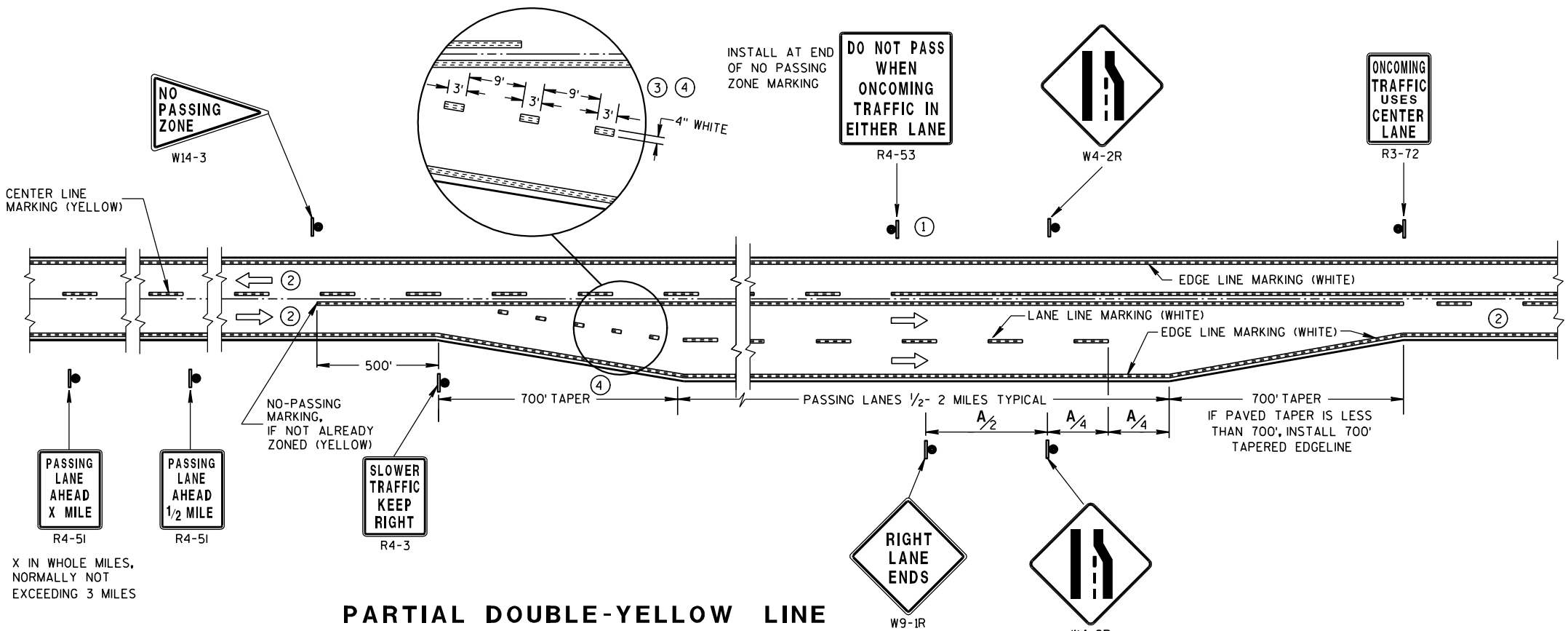
**SOLID DOUBLE-YELLOW LINE
(THROUGHOUT ENTIRE PASSING/CLIMBING LANE)**

GENERAL NOTES

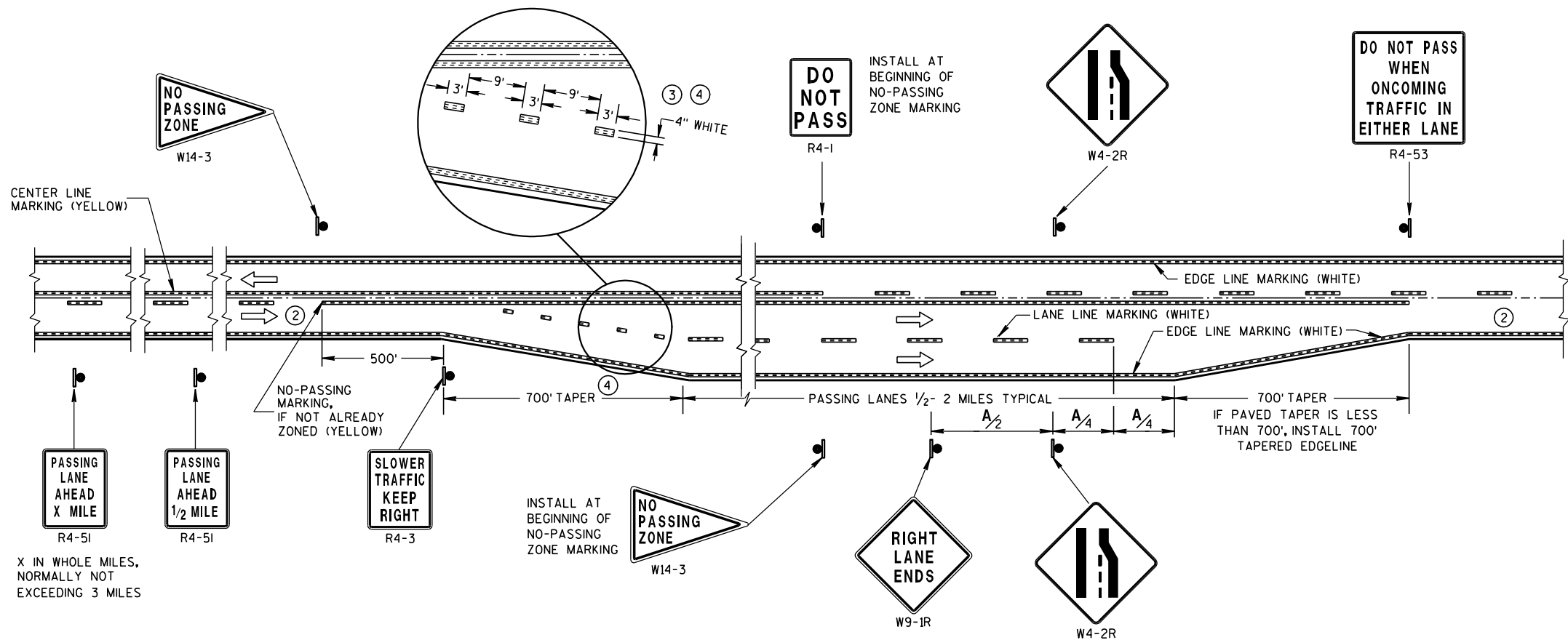
- ① SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- ② THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- ③ THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ④ WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING/CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

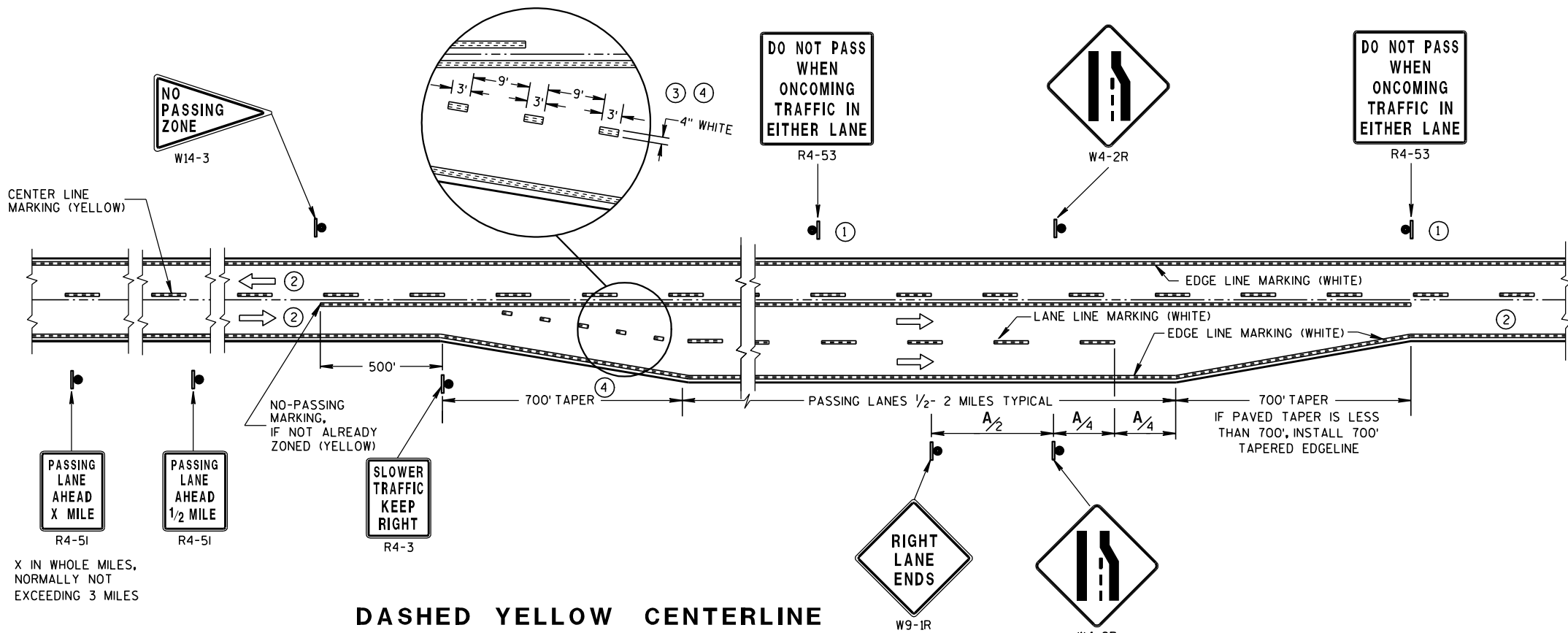
DISTANCE TABLE	
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950



**PARTIAL DOUBLE-YELLOW LINE
(BEGINNING OF SINGLE LANE)**



**SOLID DOUBLE-YELLOW LINE
(END OF SINGLE LANE)**



**DASHED YELLOW CENTERLINE
(THROUGHOUT SINGLE LANE)**

GENERAL NOTES

- ① SIGN SHALL BE REPEATED AT 1/2 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- ② THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- ③ THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ④ WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING/CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

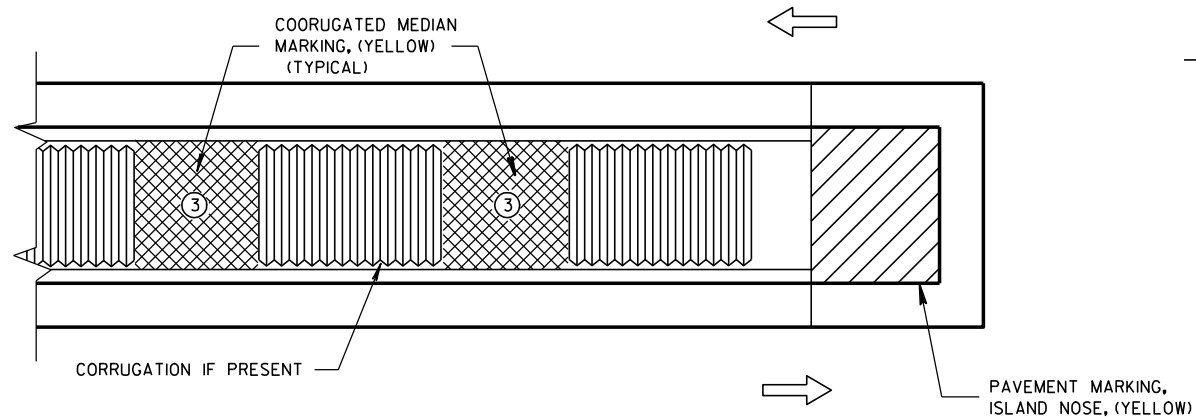
ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

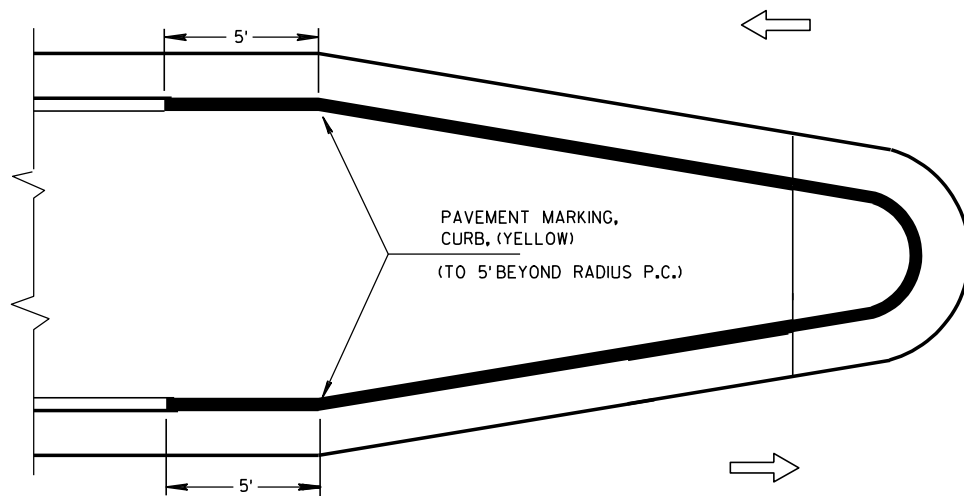
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950

**PAVEMENT MARKING & SIGNING
(CLIMBING LANE &
PASSING LANE)**

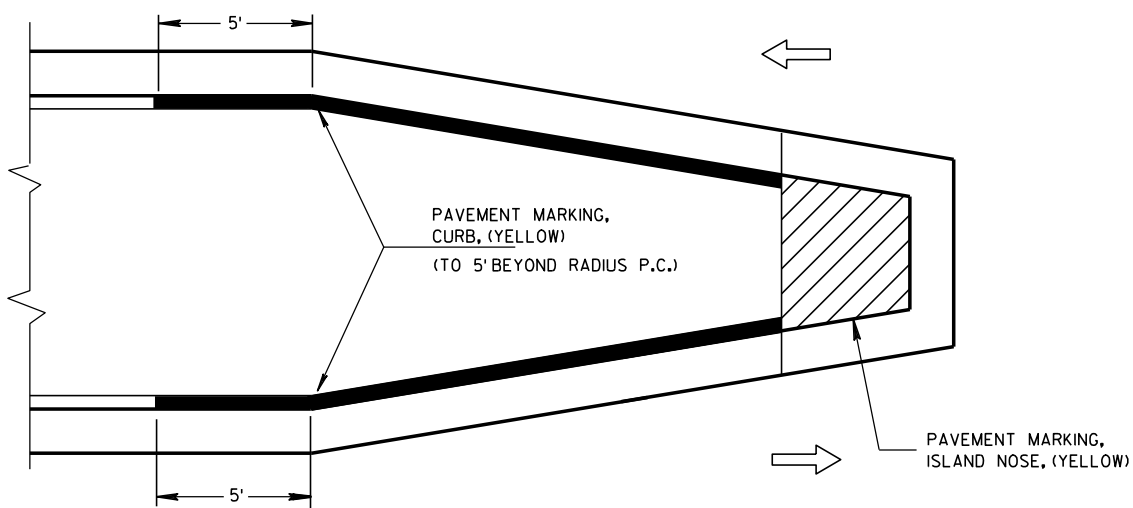
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

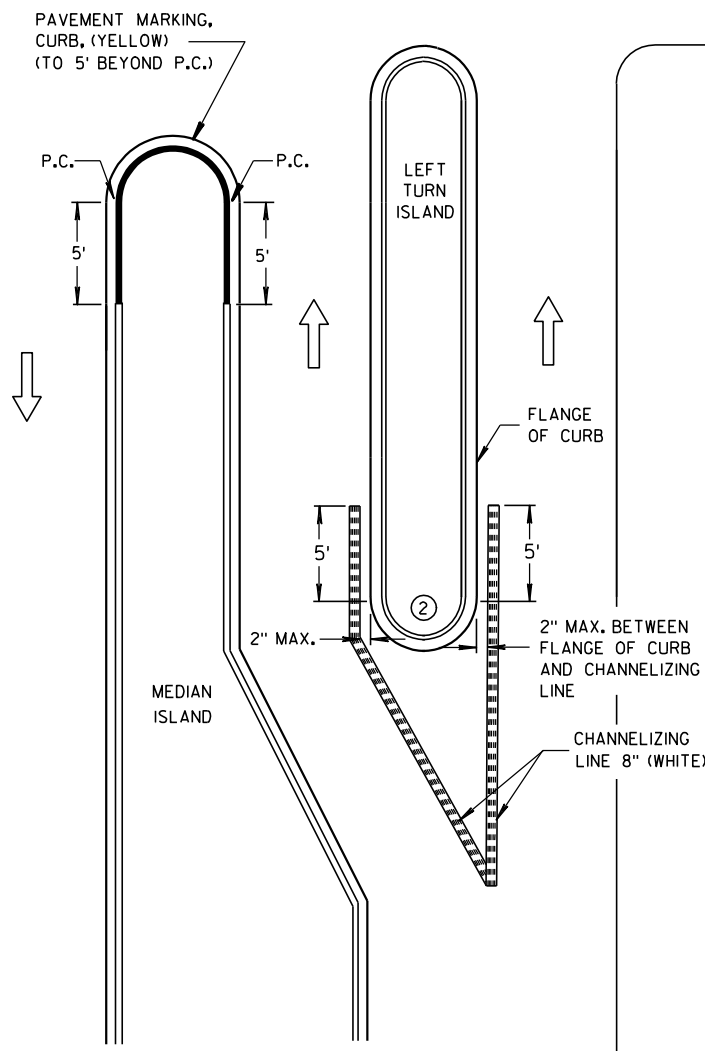


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

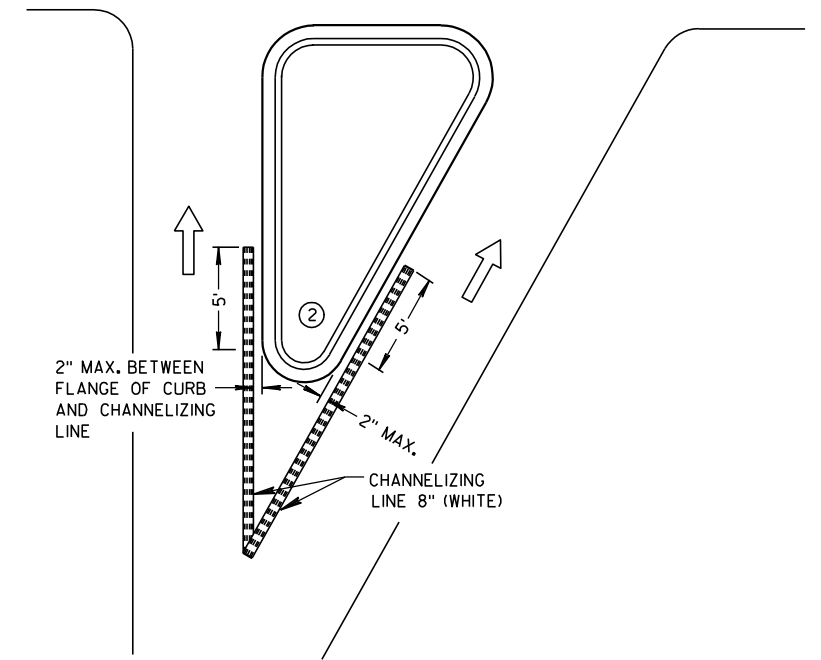
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



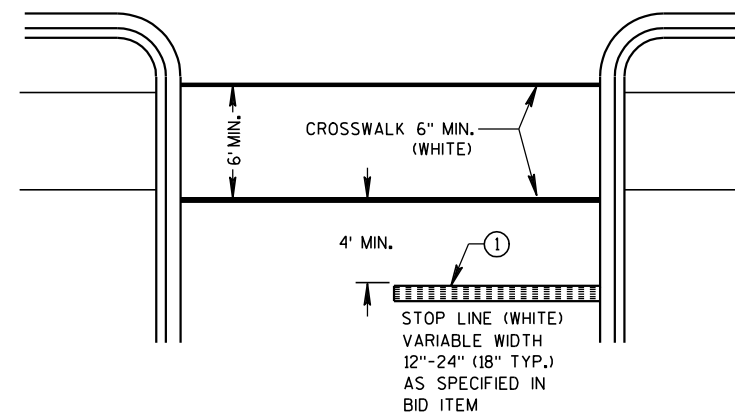
LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

- ① STOP LINE IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- ② DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
- ③ WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND



STOP LINE AND CROSSWALK

LEGEND

- ISLAND NOSE MARKING
- CURB MAKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TWO-LANE ROADWAY

SYMBOLS

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN ON PORTABLE OR PERMANENT SUPPORT

BE
PREPARED
TO STOP

W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

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

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
9/5/06
DATE

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

FHWA

6

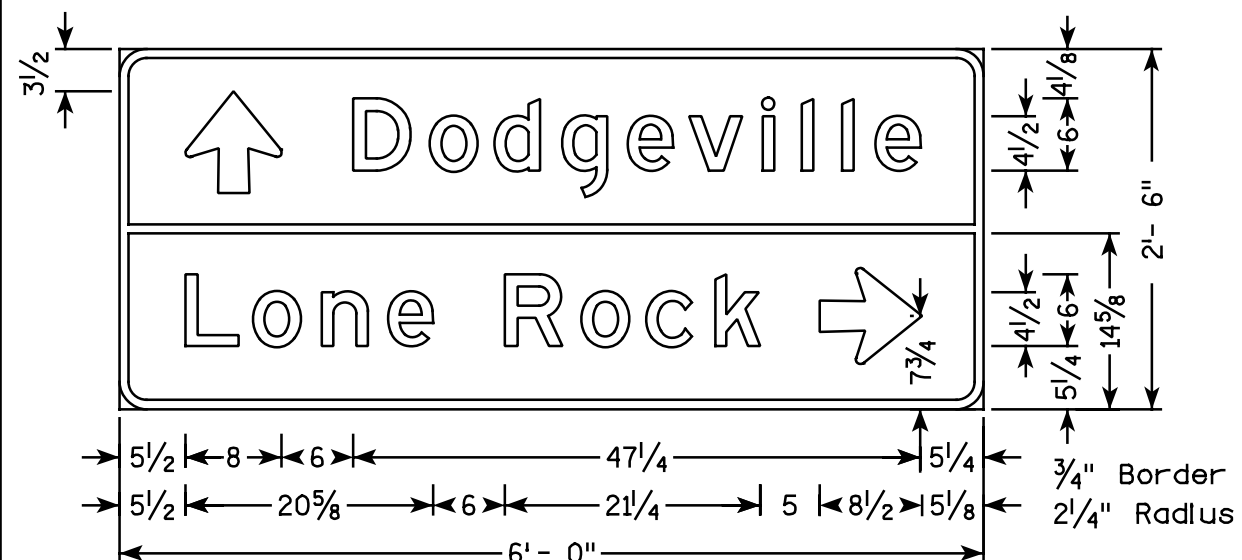
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S.D.D. 15 C 12-3

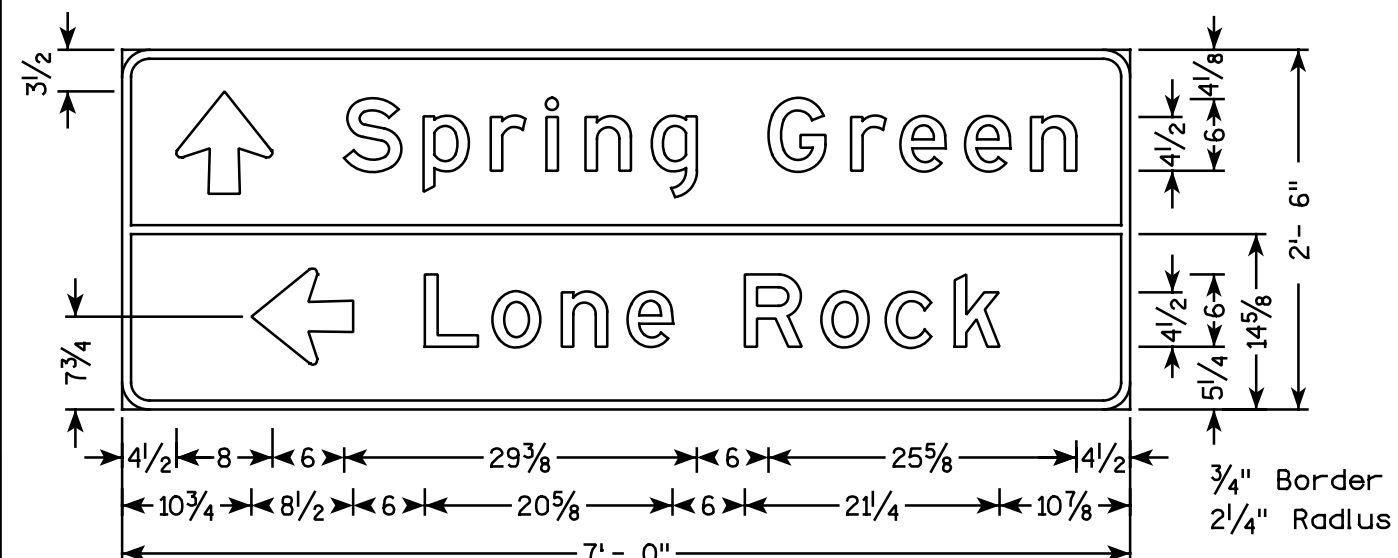
S.D.D. 15 C 12-3

NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - GREEN
Message - WHITE
3. Message Series - E



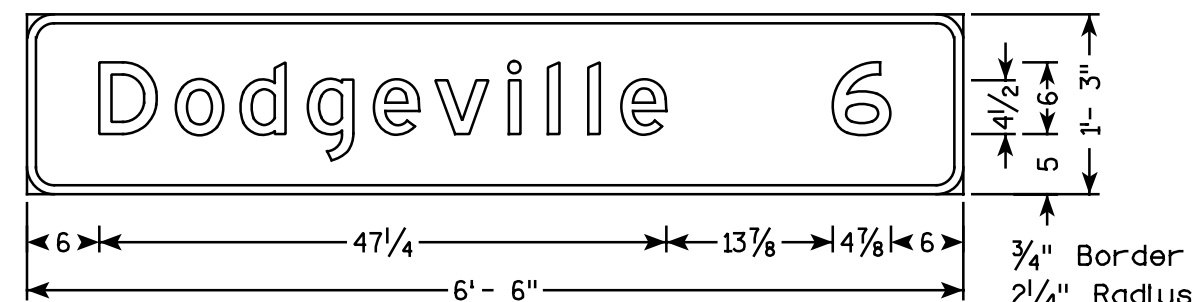
D1-2



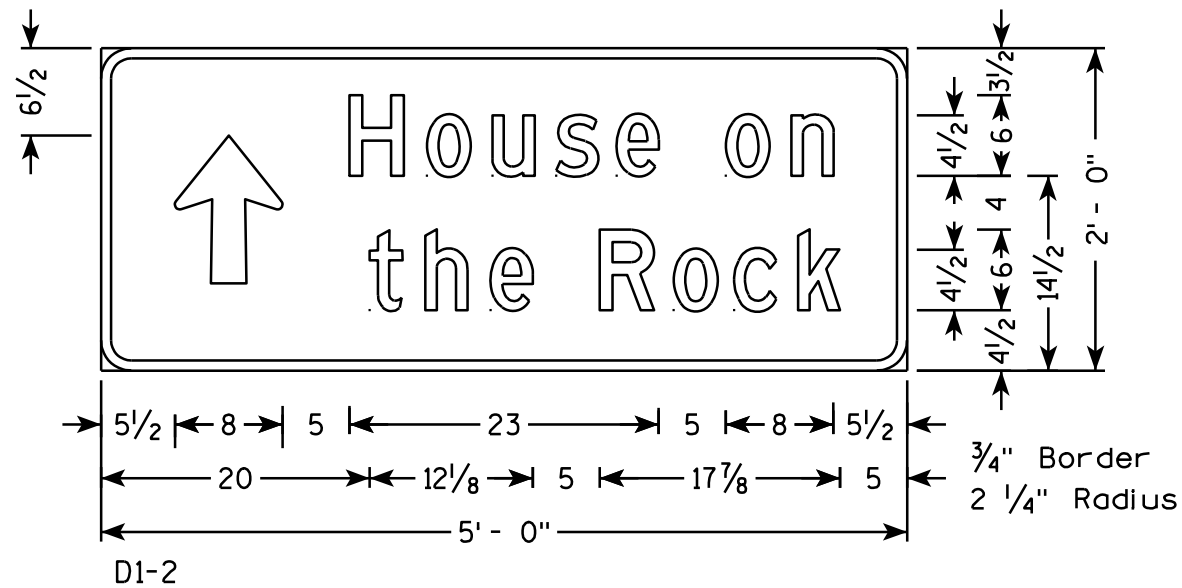
D1-2



D2-1

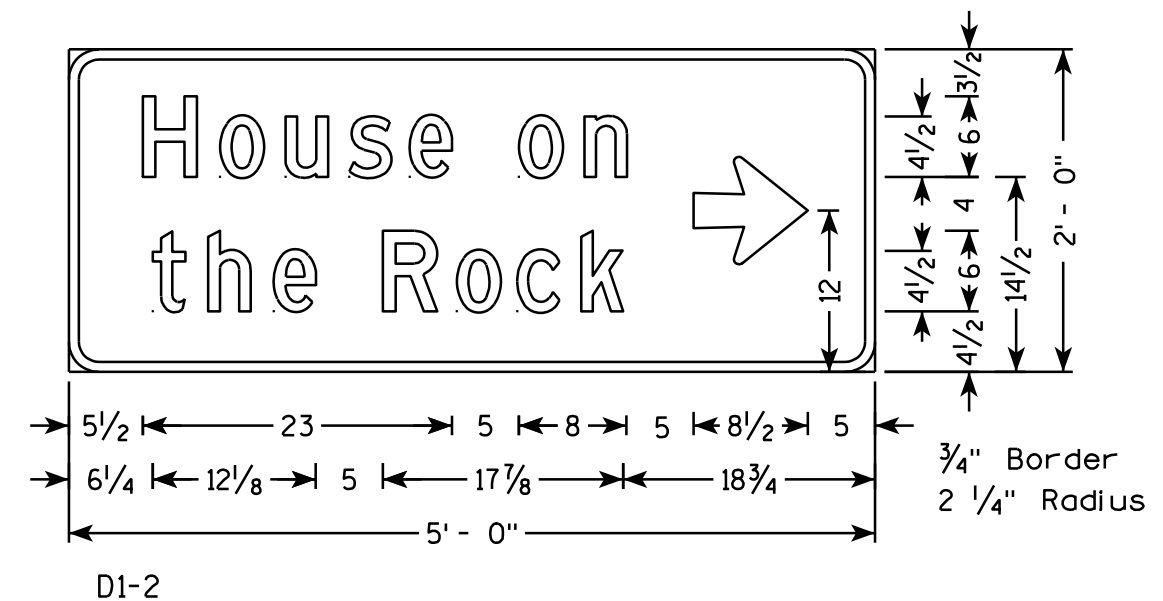
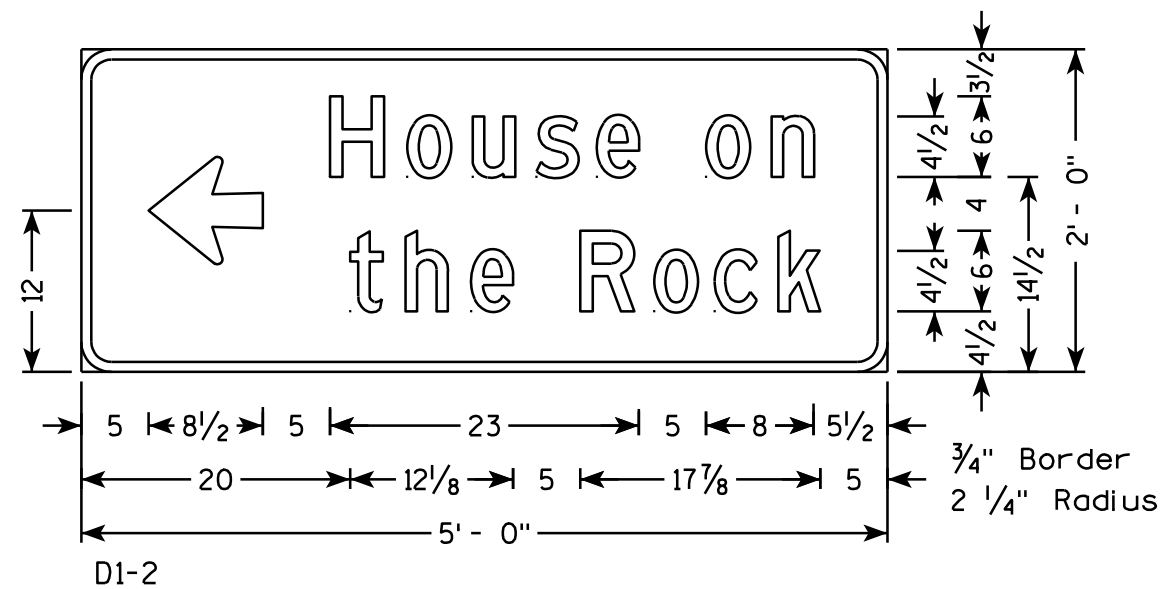


D2-1



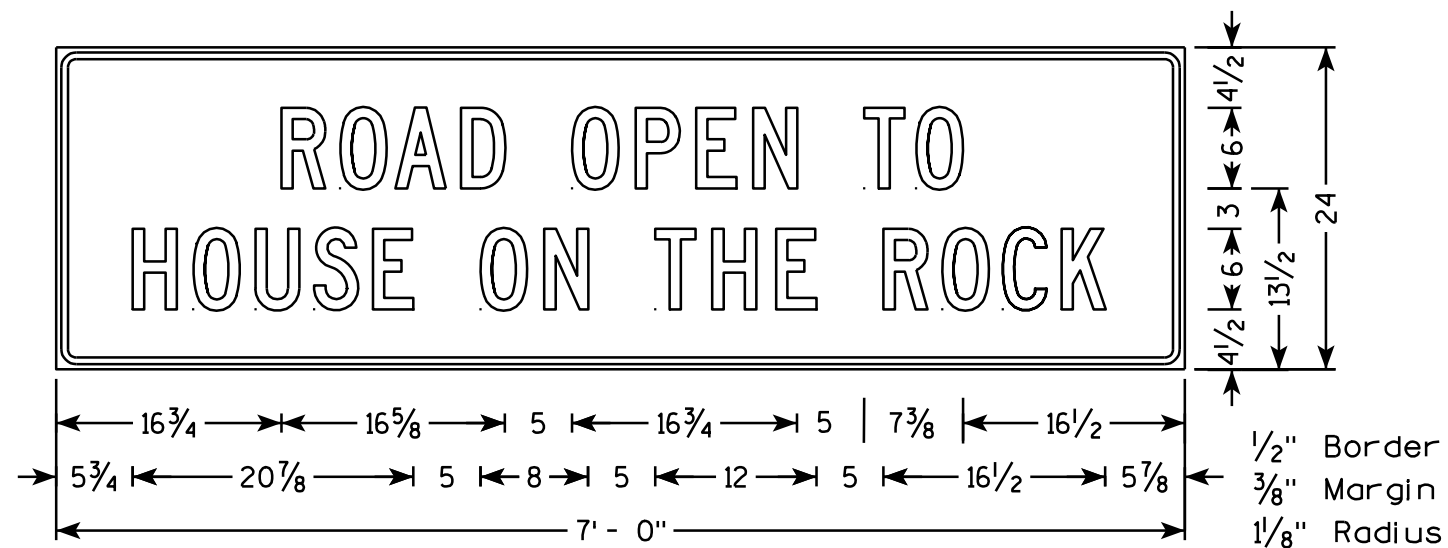
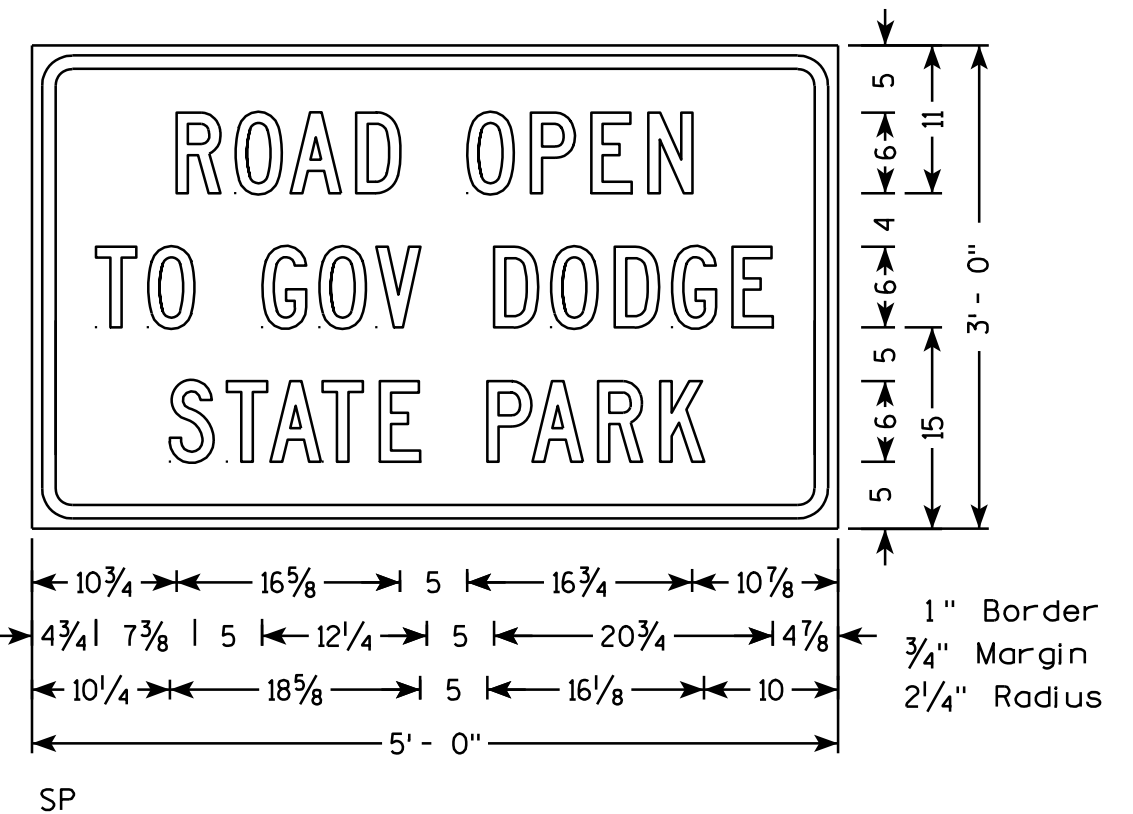
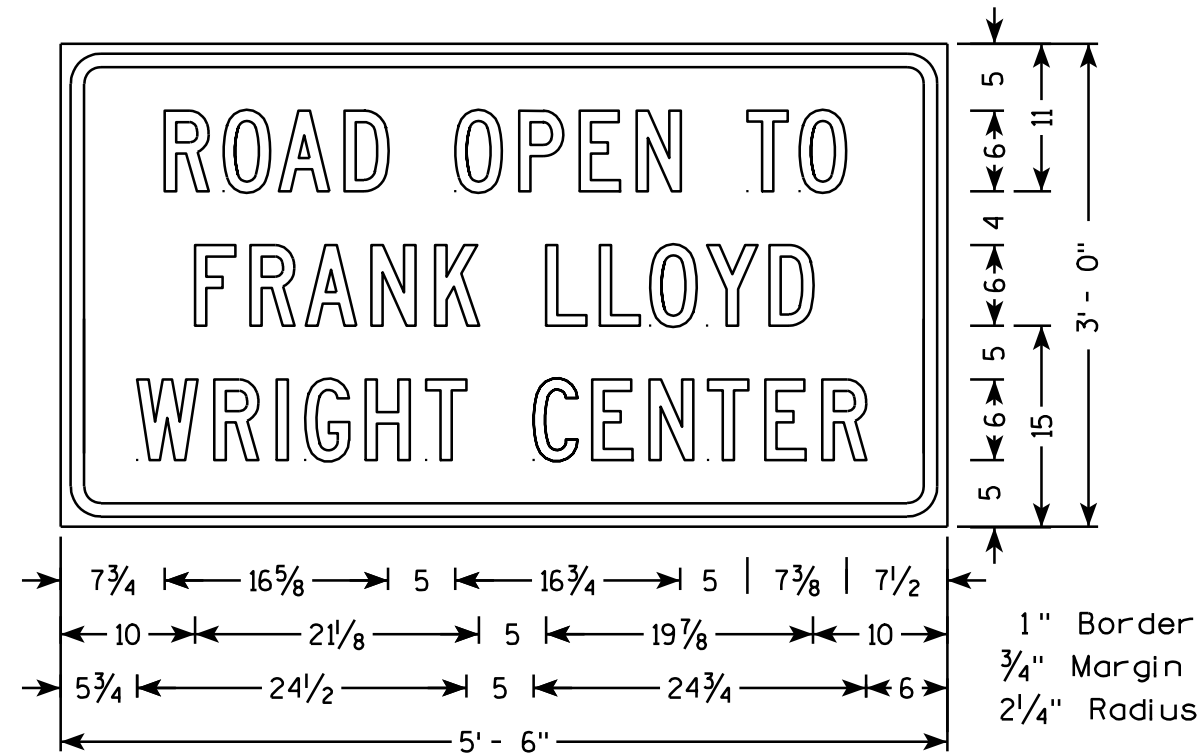
NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - ORANGE
Message - BLACK
3. Message Series - D

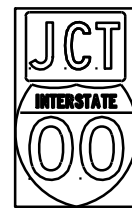


NOTES

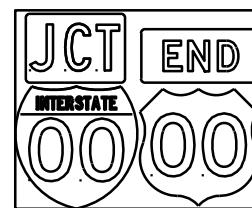
1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - WHITE
Message - BLACK
3. Message Series - C



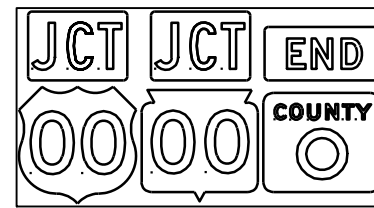
TYPICAL ASSEMBLIES



J1-1



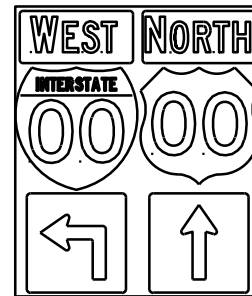
J1-2



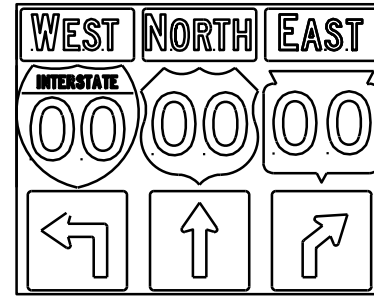
J1-3



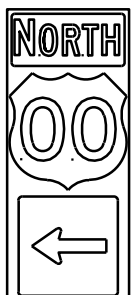
J2-1



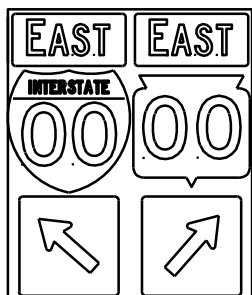
J2-2



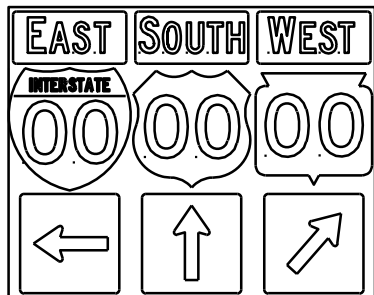
J2-3



J3-1



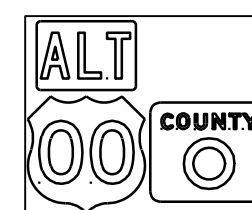
J3-2



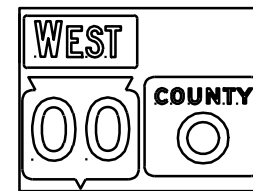
J3-3



J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1



J22-1

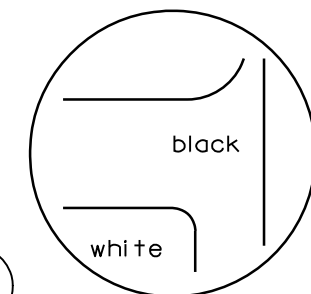
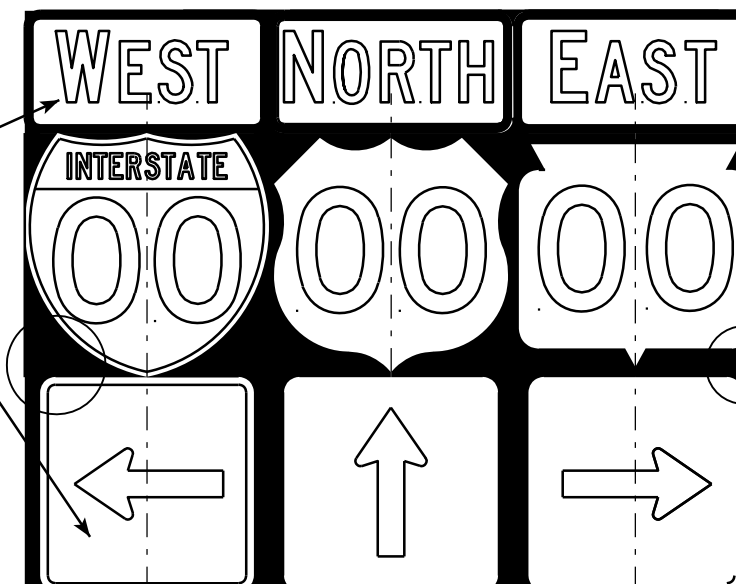
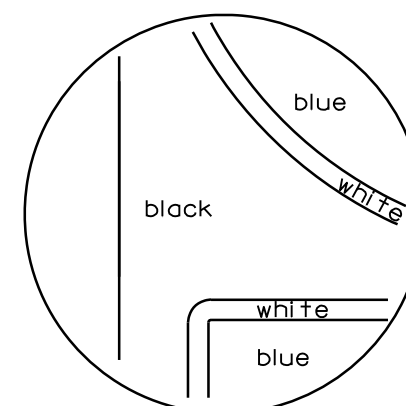


JV

NOTES

- Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - Black Non-reflective
Message - see Note 5
- Message Series - See Note 5
- Corners shall be square since base material is plywood.
- The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
- 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.
- 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.
- 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.
- 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.

[blue background with interstate]



[black background]

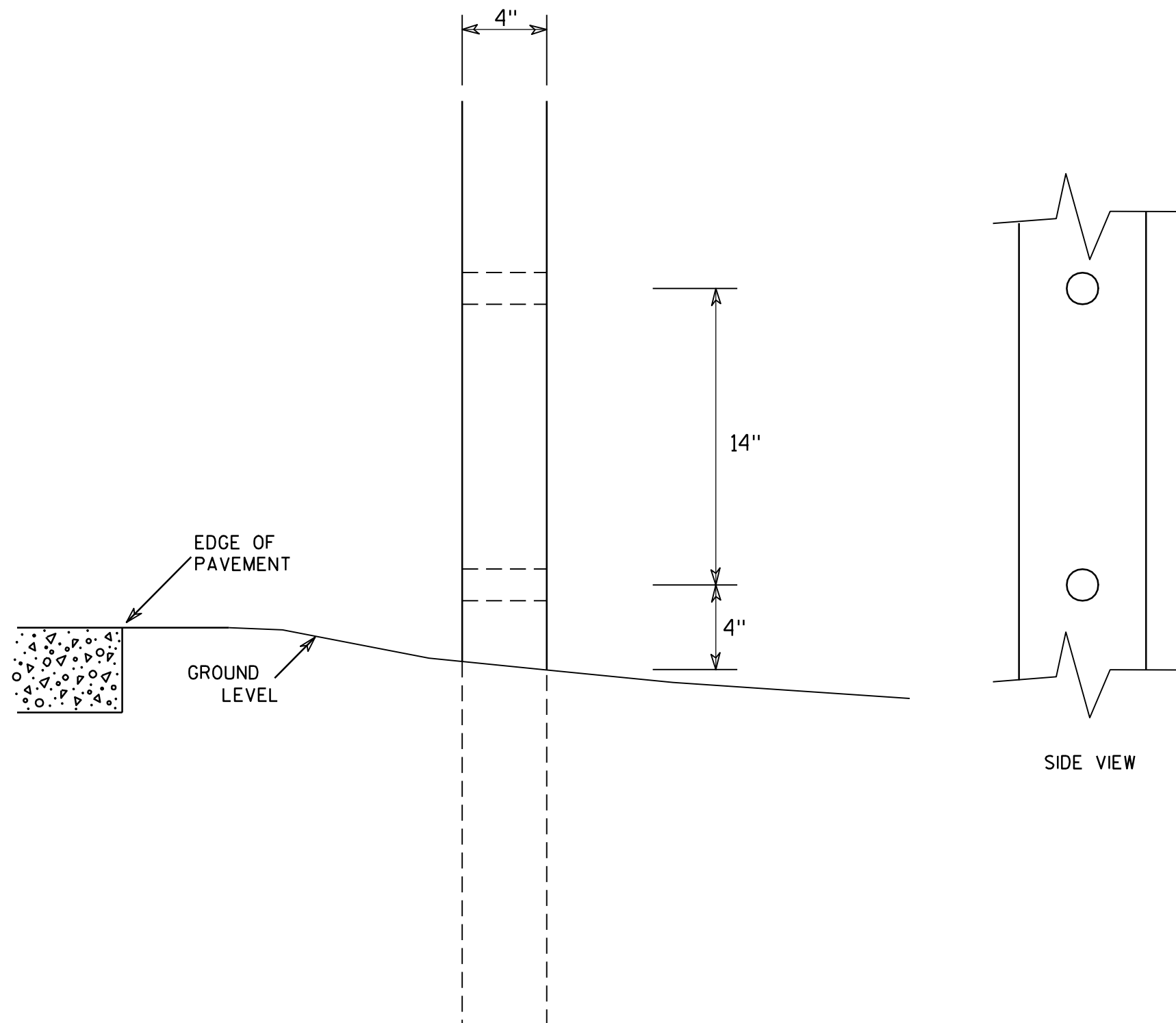
ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 10/21/09	PLATE NO. A2-1S.6

PROJECT NO:

SHEET NO:

E

7



GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

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:

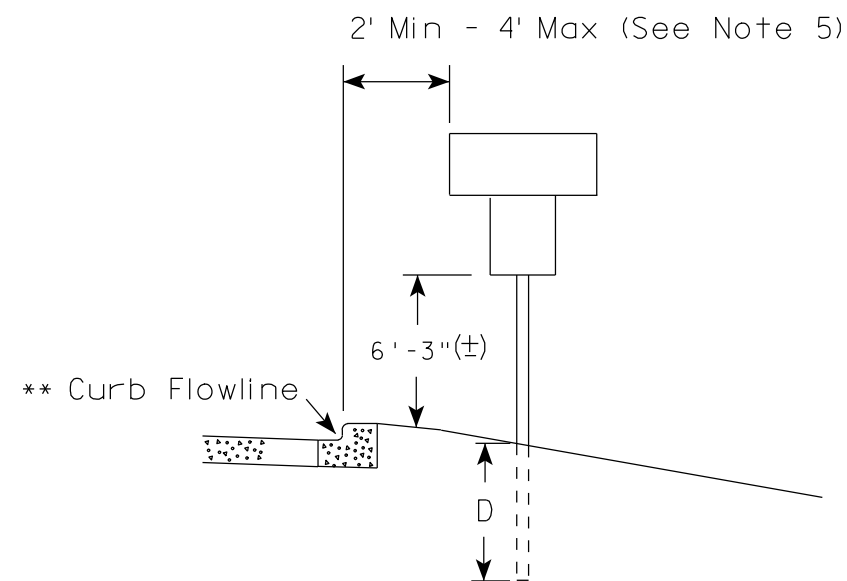
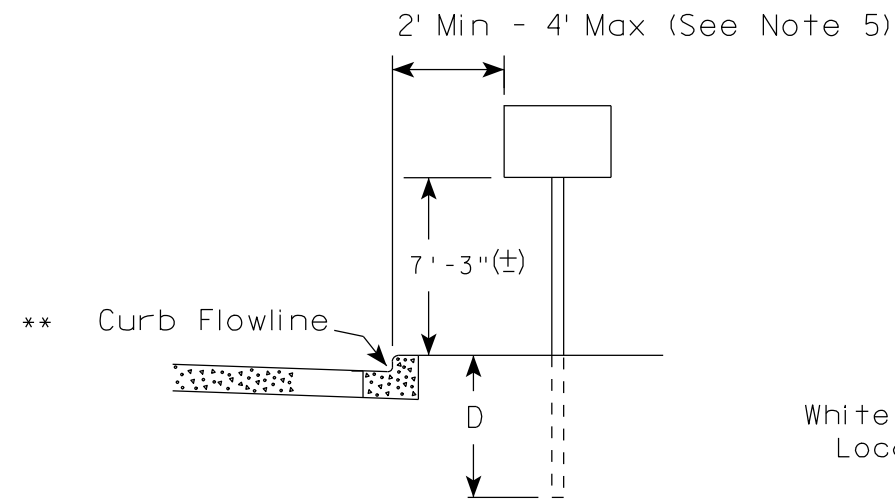
HWY:

COUNTY:

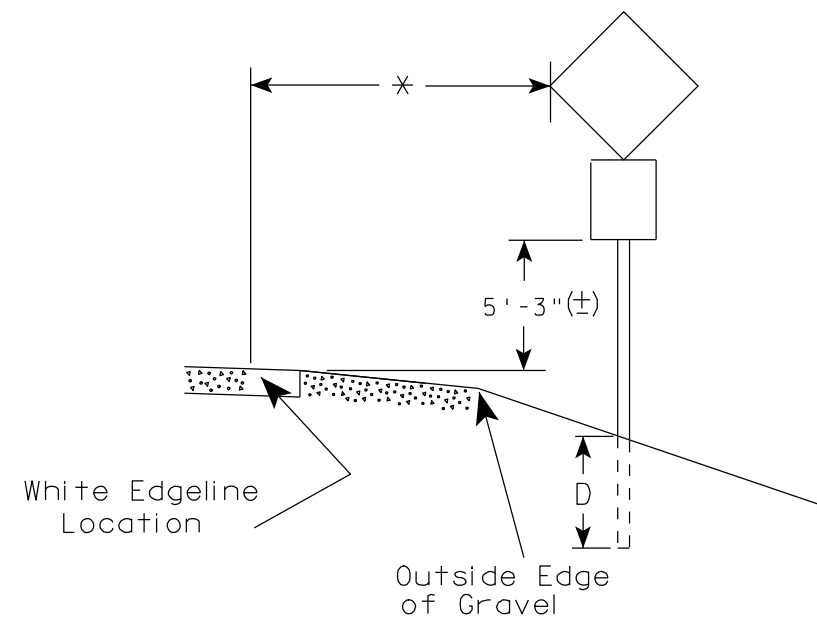
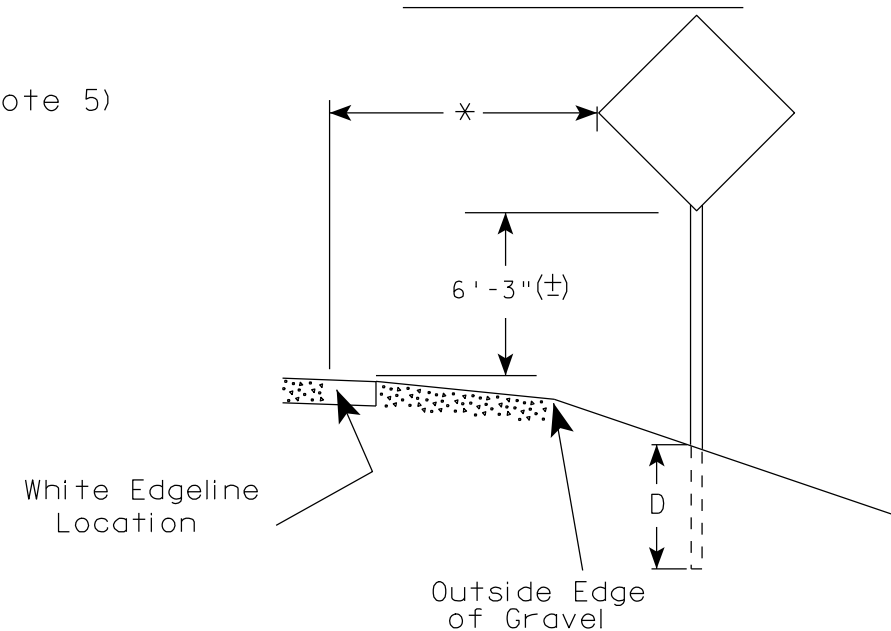
SHEET NO:

E

URBAN AREA



RURAL AREA (See Note 2)



POST EMBEDMENT DEPTH

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

GENERAL NOTES

1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (±).

✱✱ 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 9/21/2011 PLATE NO. A4-3.16

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

GENERAL NOTES

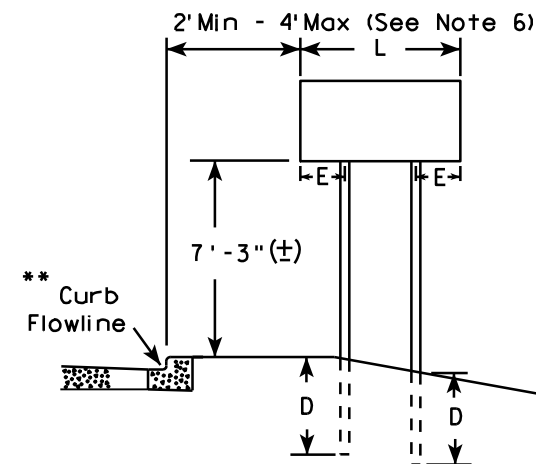
- For multiple post installations, individual post spacing shall be greater than 3'-6".
- See tables below for required number of posts.
- For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
- The (±) tolerance for mounting height is 3 inches.
- Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
- Offset distance shall be consistent with existing signs or consistent throughout length of project.
- Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
- The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4"-3" (±).

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

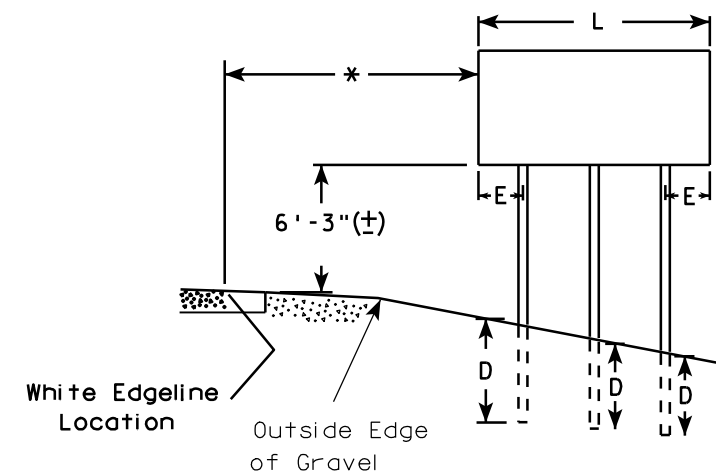
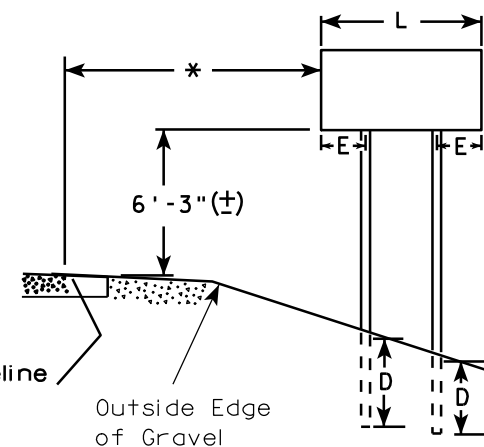
** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs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

*** See A4-3 sign plate for signs 4' or less in width or 20 S.F. or less in area.

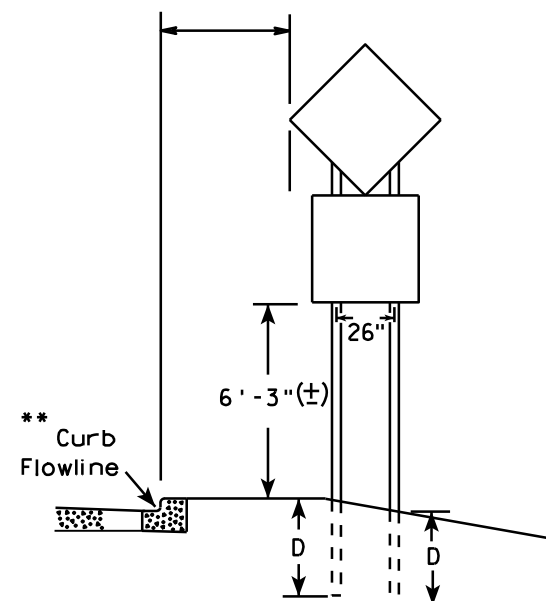
URBAN AREA



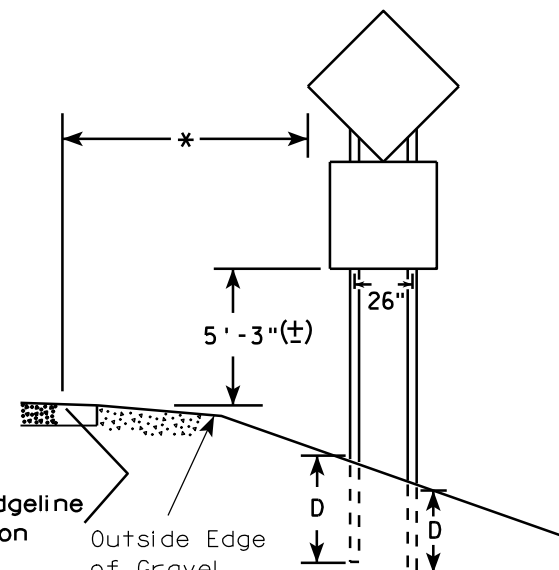
RURAL AREA (See Note 3)



2' Min - 4' Max (See Note 6)



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 9/21/2011 PLATE NO. A4-4.11

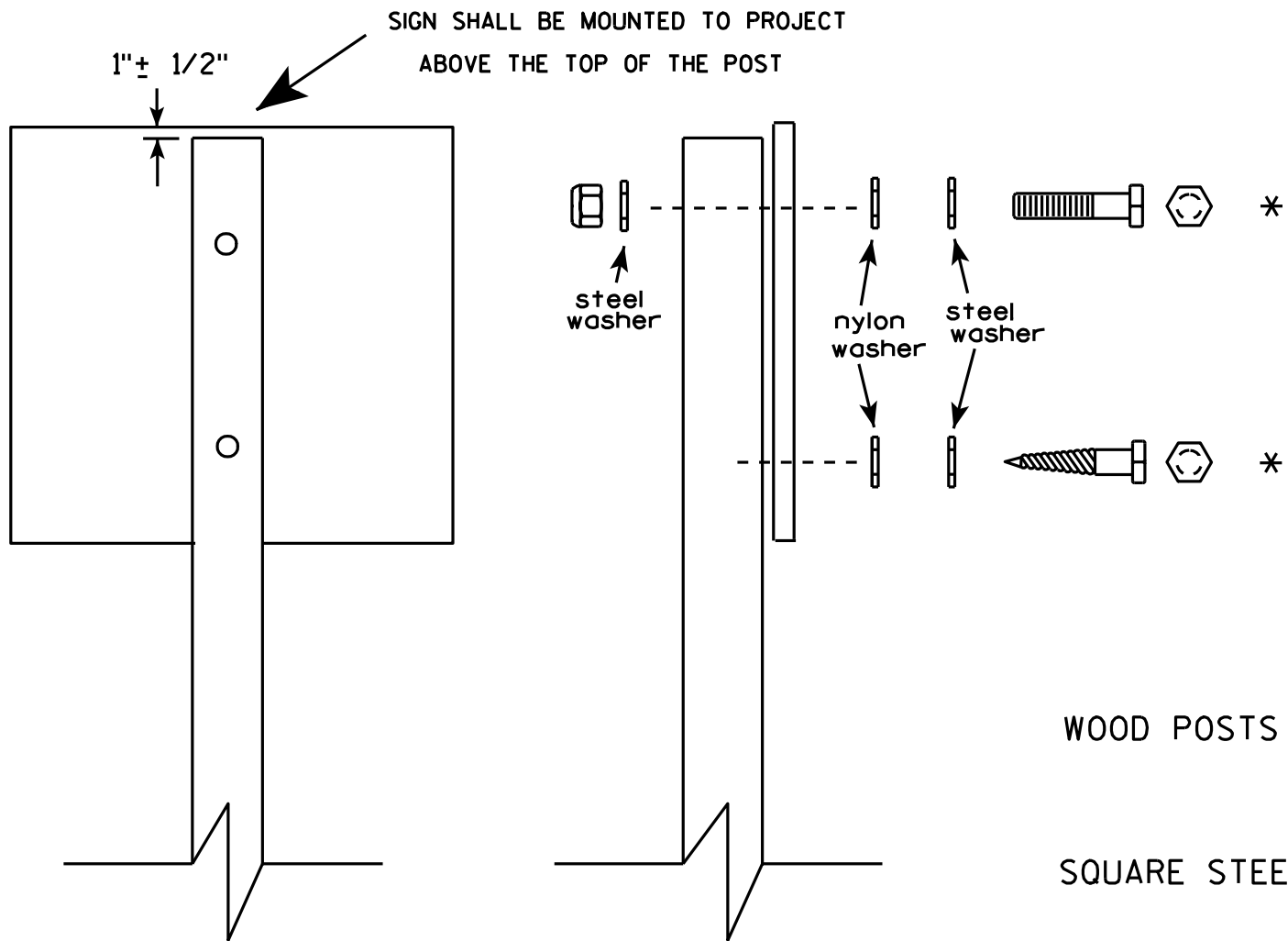
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

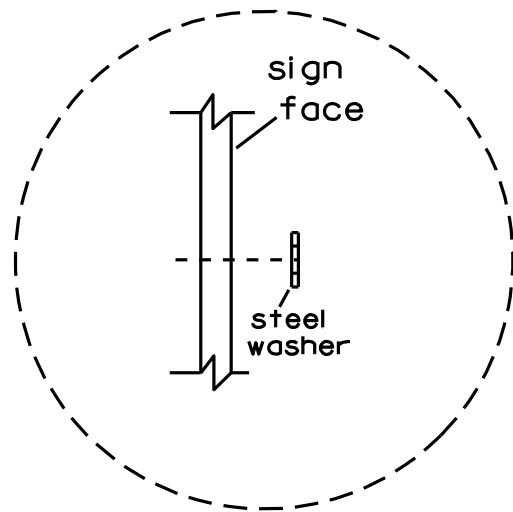


Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- 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.

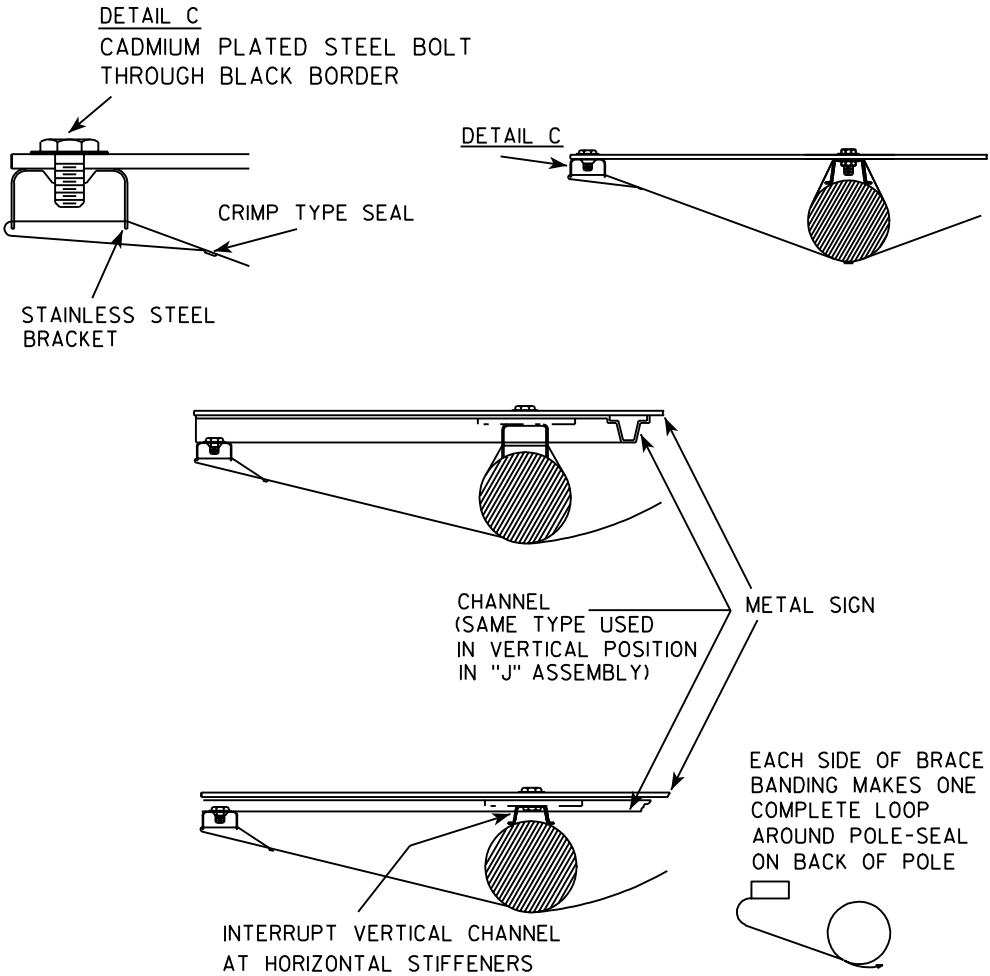


Washer Placement when Sign Has Other Than Type H or Type F Face

* 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

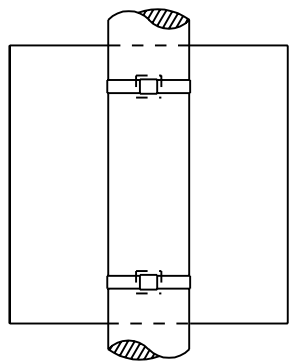
BRACE BANDING



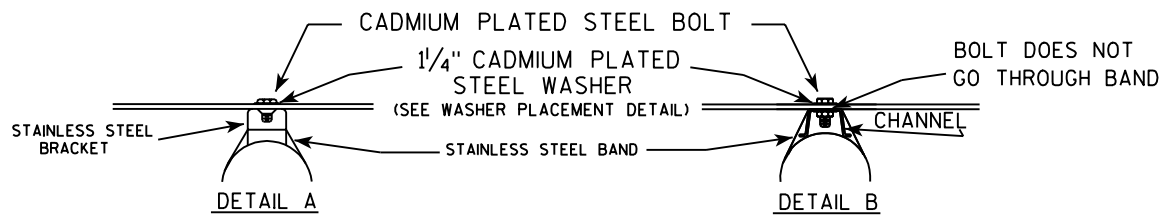
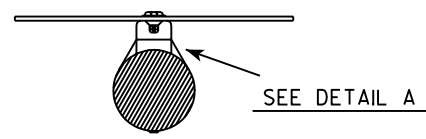
BRACE BANDING

BRACE BANDING SHALL BE TIGHTENED FIRMLY
BUT NOT SO TIGHT AS TO APPRECIABLY
CURVE FACE OF SIGN.

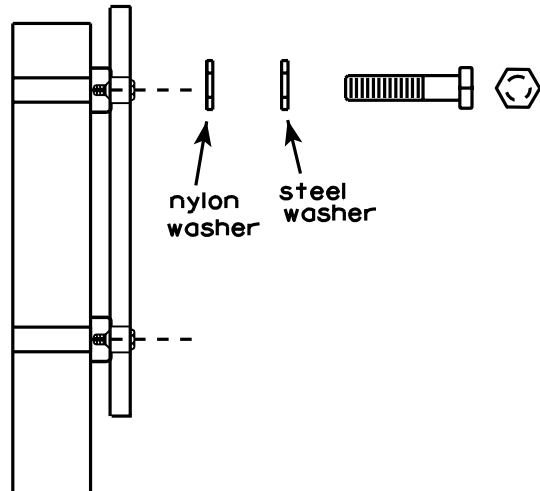
SINGLE SIGN



BRACKET BANDING

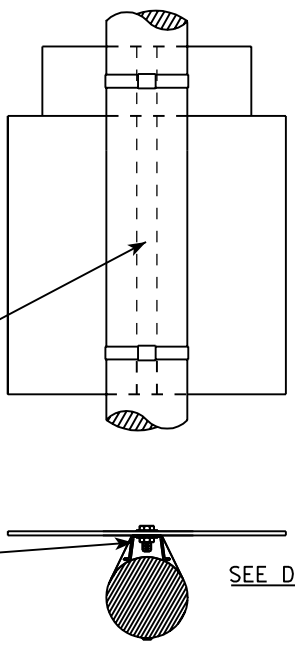


WASHER PLACEMENT



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

"J" ASSEMBLY



SEE DETAIL B

GENERAL NOTES

1. Signs 4' or greater in width shall have one brace band installed at the center of the sign.
2. Signs 3' or greater in height shall have three bracket bands installed. Signs less than 3' in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

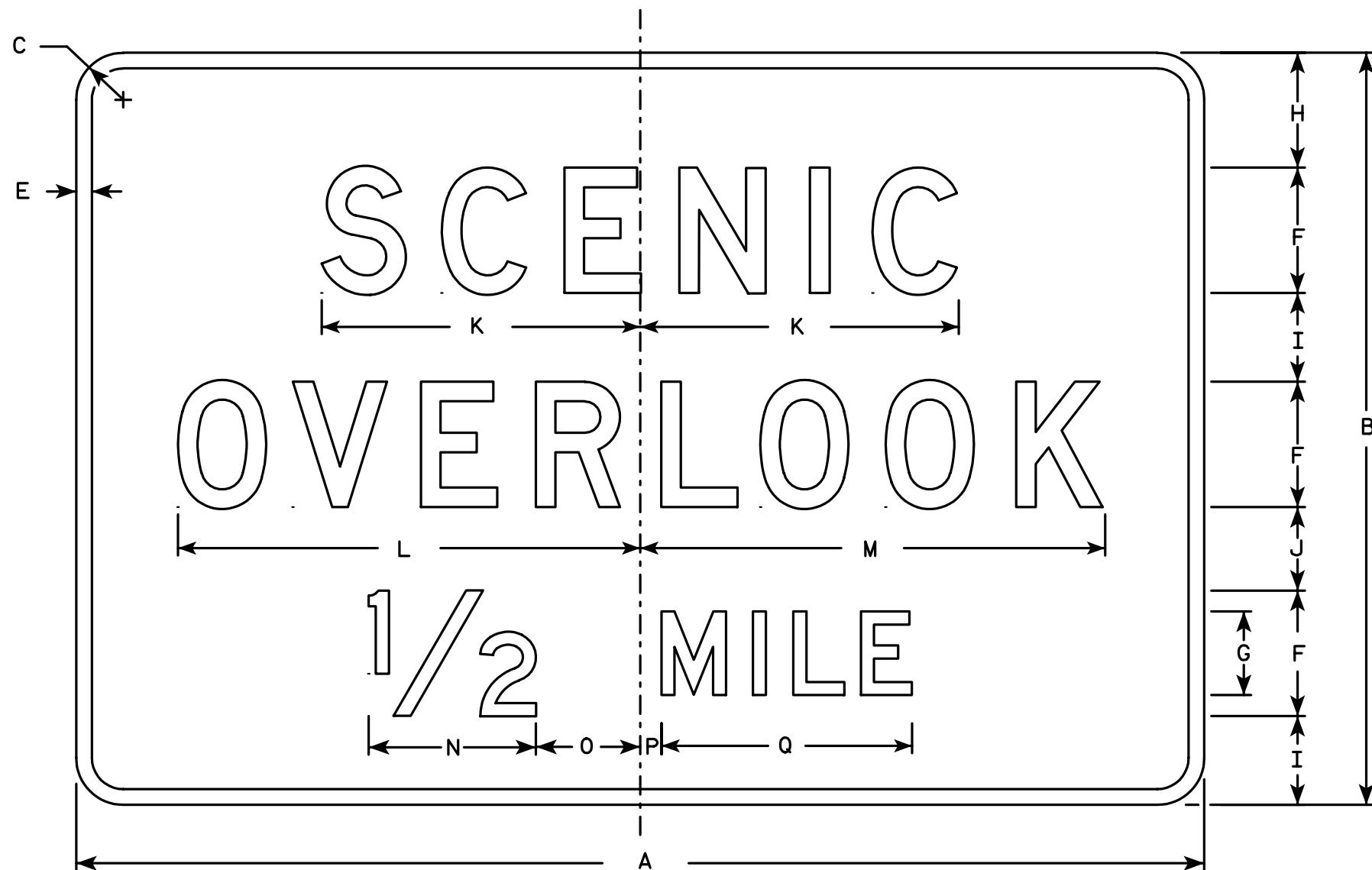
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/08/05 PLATE NO. A5-9.2

56, 59, 60, 61, 62, 63

7

LEVELS ON - 2, 3, 5, 6, 10.



D6-51

Metric equivalent
for this sign is:

SIZE	
1	
2	1350 mm X 900 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 sq. m.
1																												
2	54	36	2 1/4		3/4	6	4	5 1/2	4 1/4	4	15 1/4	22 1/8	22 1/4	8	5	1	12										13.50	1.22
3																												
4																												
5																												

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 - 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.

STANDARD SIGN
D6-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Christa J. Spang
for State Traffic Engineer

DATE 1/10/02

PLATE NO. D6-51.5

STATE PROJECT NUMBER:

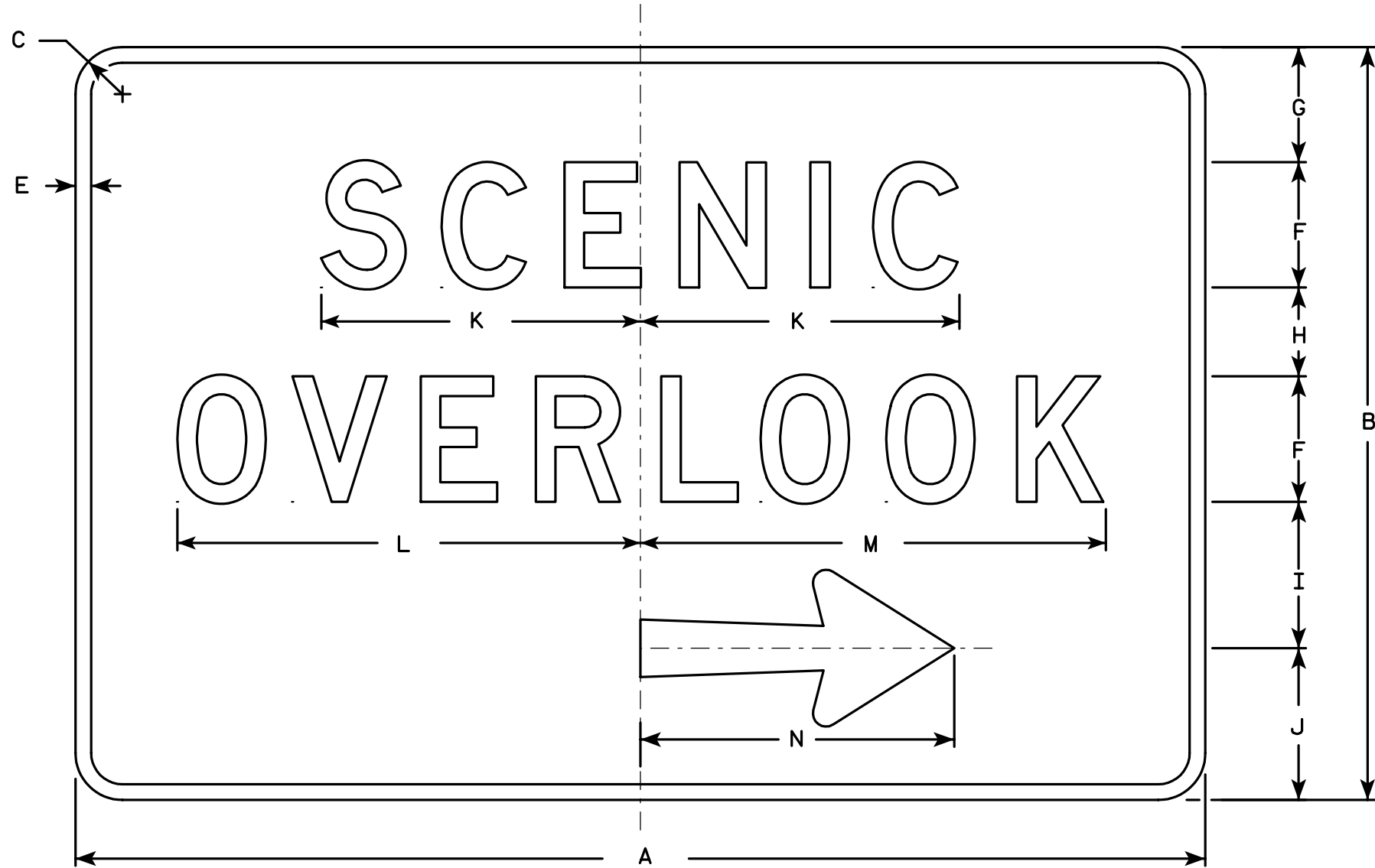
SHEET NO:

E

58, 59, 60, 61, 62, 63

7

LEVELS ON - 2, 3, 5, 6, 10.



D6-53R

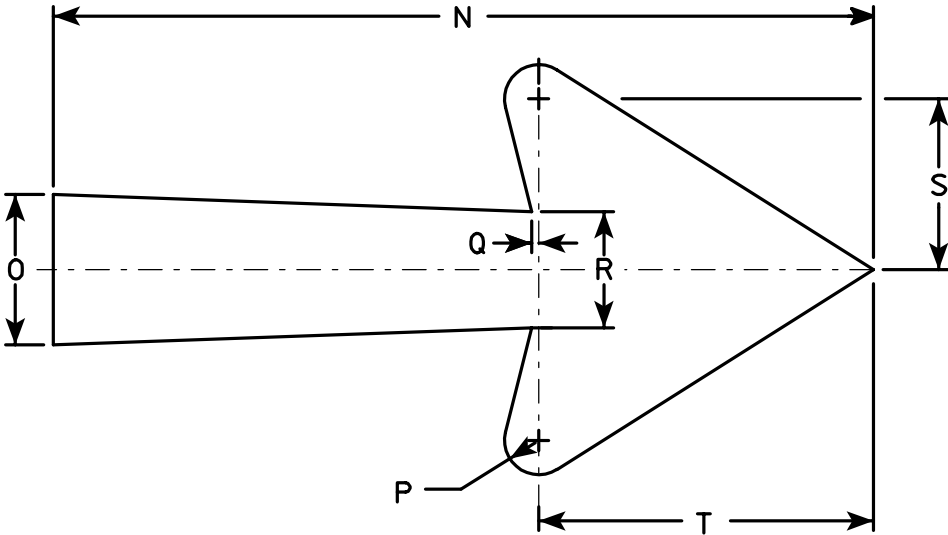
Metric equivalent
for this sign is:

SIZE	
1	
2	1350 mm X 900 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 sq. m.
1																												
2	54	36	2 1/4		3/4	6	5 1/2	4 1/4	7	7 1/4	15 1/4	22 1/8	22 1/4	15	2 3/4	5/8	1/8	2 1/8	3 1/8	6 1/8							13.50	1.22
3																												
4																												
5																												

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 - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. D5-53L is the same as D6-53R except that the arrow is reversed.



Arrow Detail

STANDARD SIGN
D6-53

WISCONSIN DEPT OF TRANSPORTATION

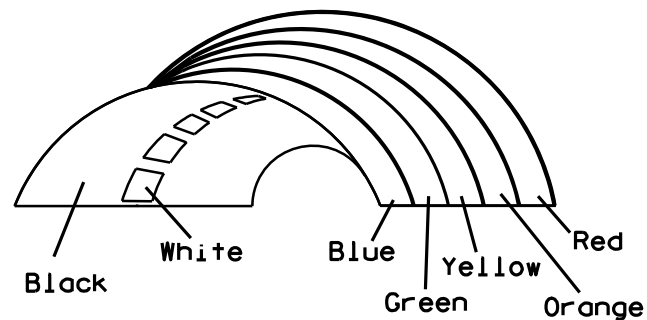
APPROVED
Christa J. Spay
State Traffic Engineer

DATE 1/10/02 PLATE NO. D6-53.5



* VARIES

Background Colors of Symbol*



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

NOTES

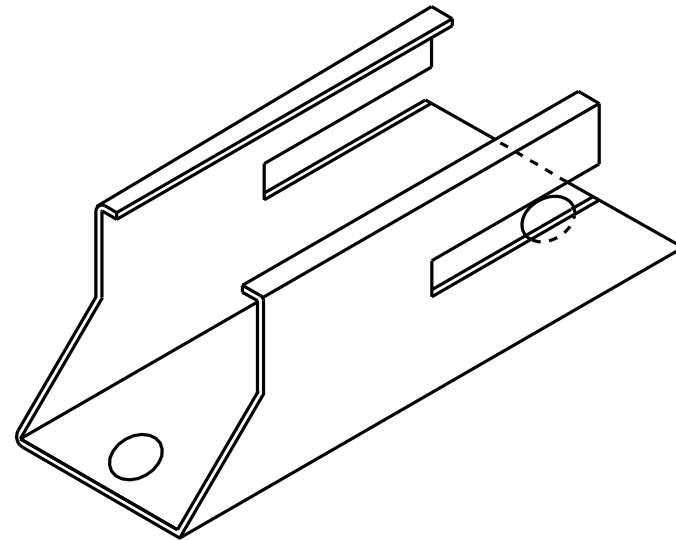
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - (See Note 5)
3. Message Series - (See Note 6)
4. Corners may be square or rounded when base material is plywood but borders shall 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																											

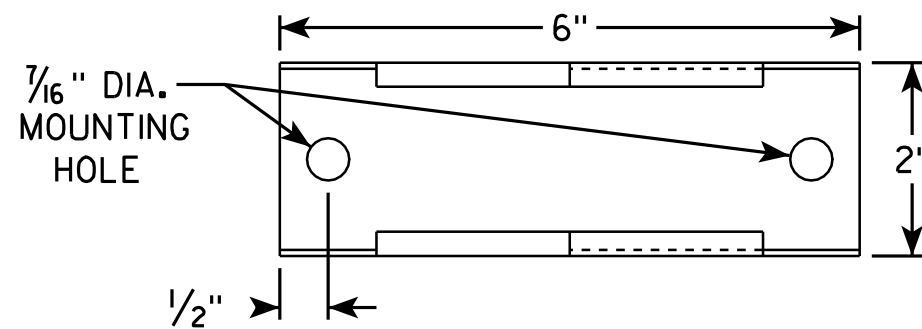
PROJECT NO:	HWY:	COUNTY:	SHEET NO:
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STANDARD SIGN I55-56	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 4/27/11	PLATE NO. I55-56.3

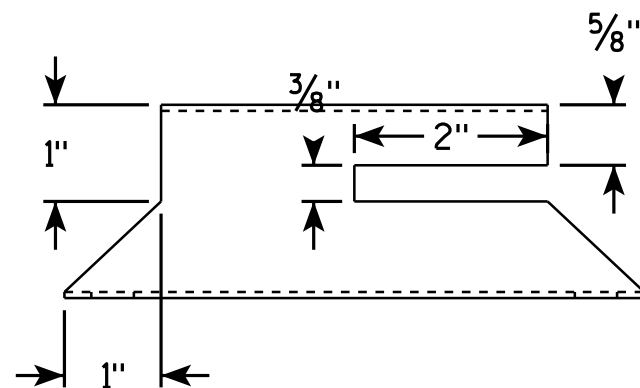
ISOMETRIC VIEW



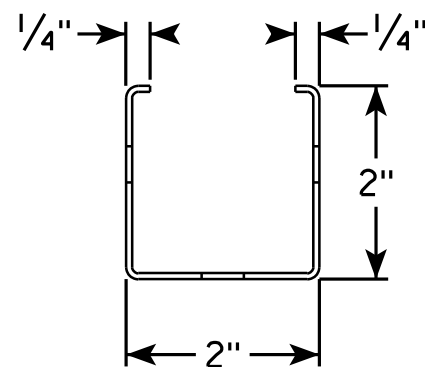
TOP VIEW



SIDE VIEW



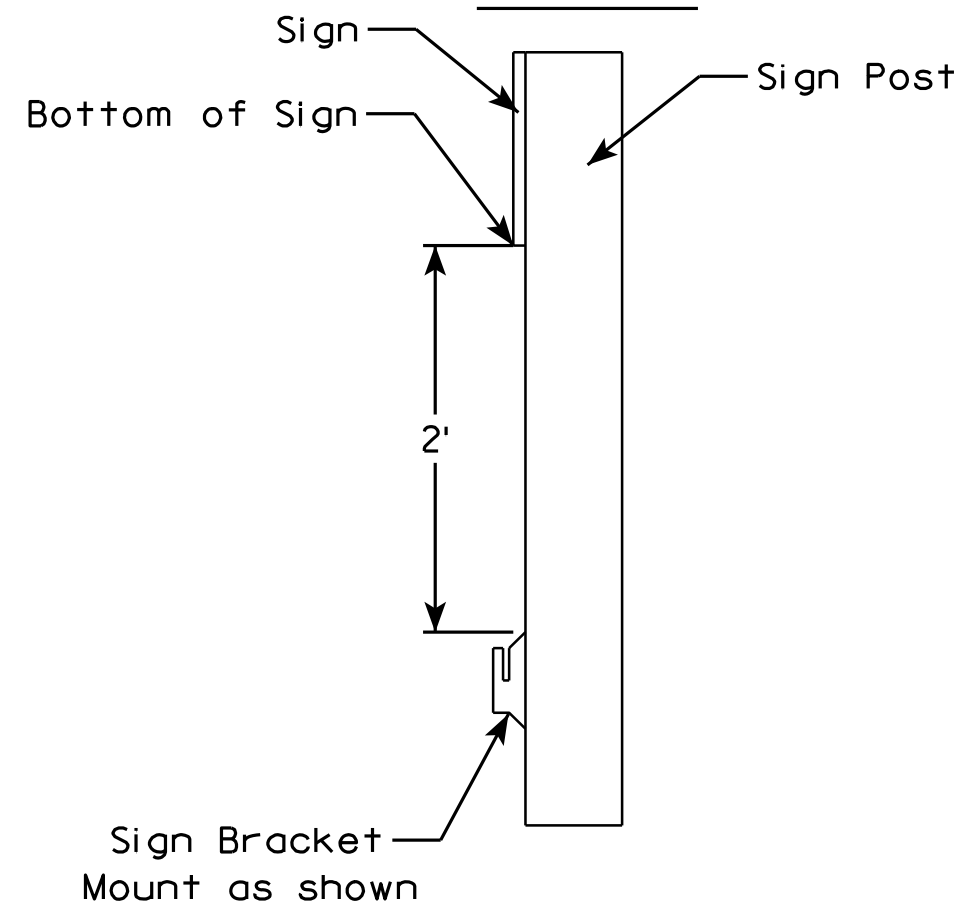
END VIEW



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:

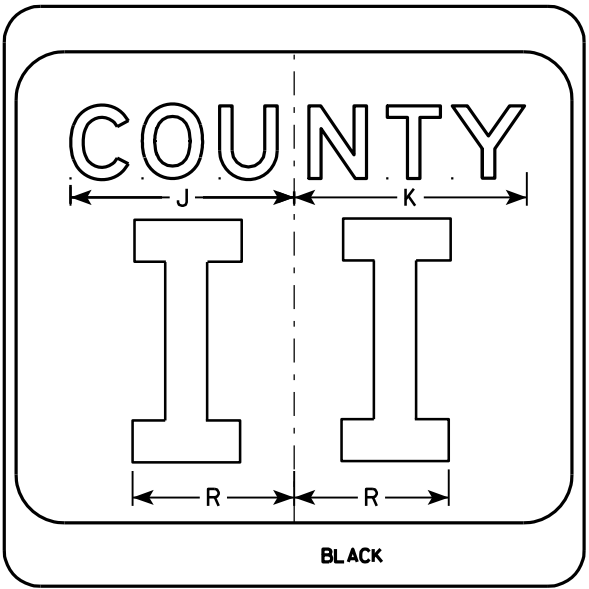
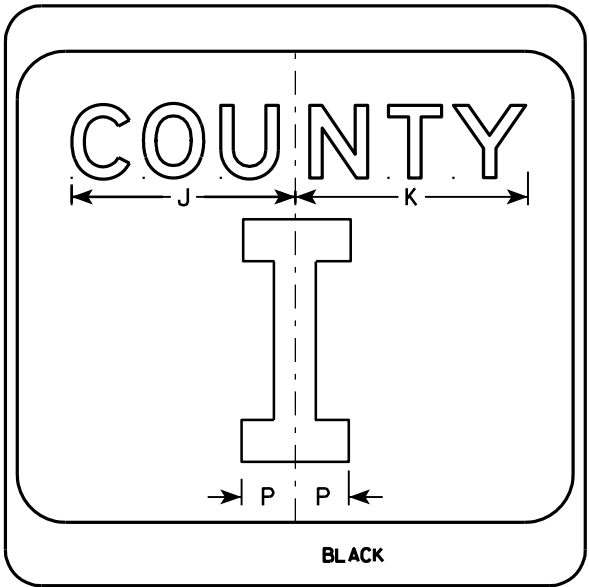
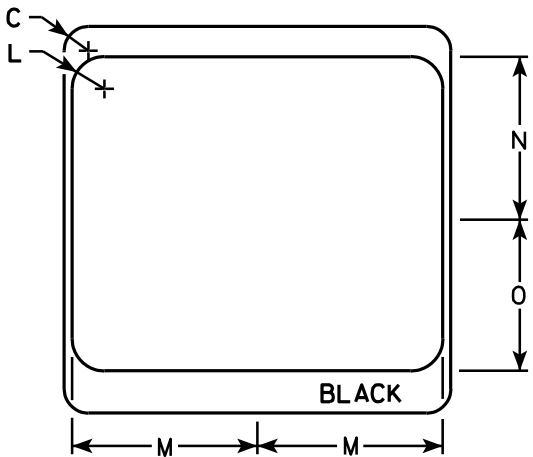
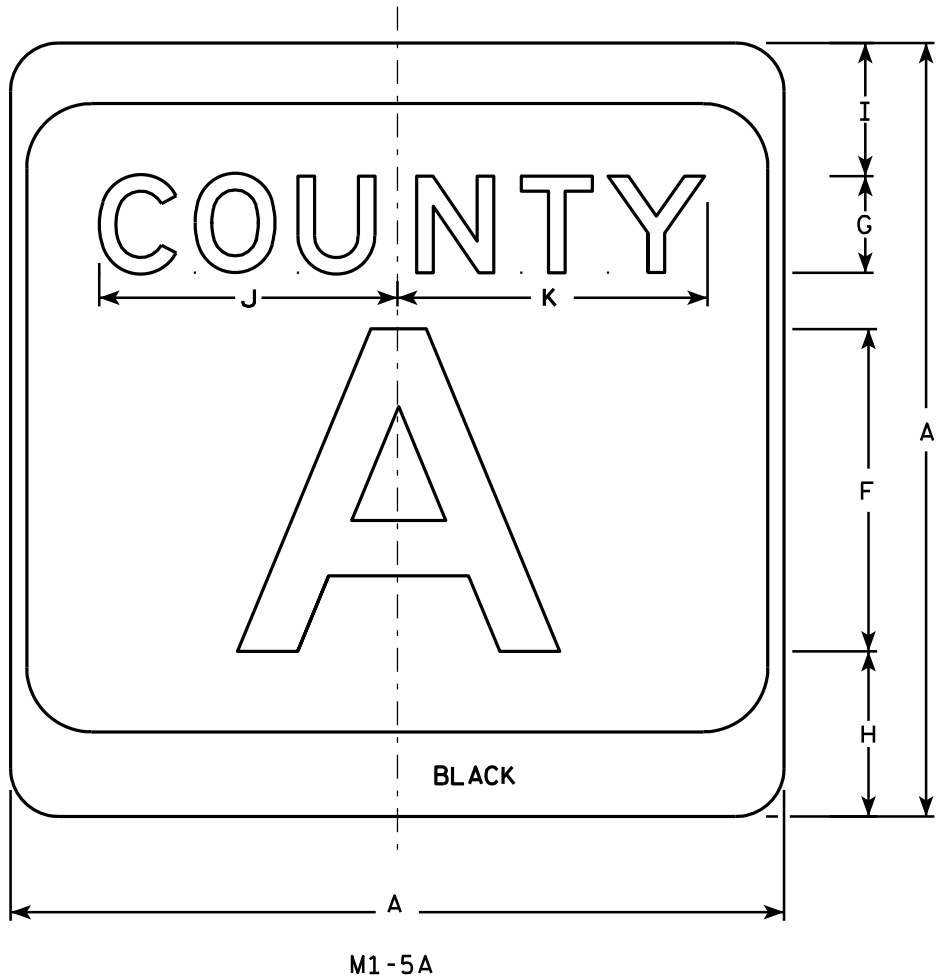
HWY:

COUNTY:

SHEET NO:

E

7



NOTES

- Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - White & Black - See Note 7
Message - Black
- Message Series - see Note 5
- 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.
- Message Series E for 1 letter.
Message Series D for 2 letters unless message is too big then Series C.
Message Series C for 3 letters unless message is too big then Series B.
- Substitute appropriate letters & optically center to achieve proper balance.
- 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

CTH MARKER
M1-5A FOR ASSEMBLIES

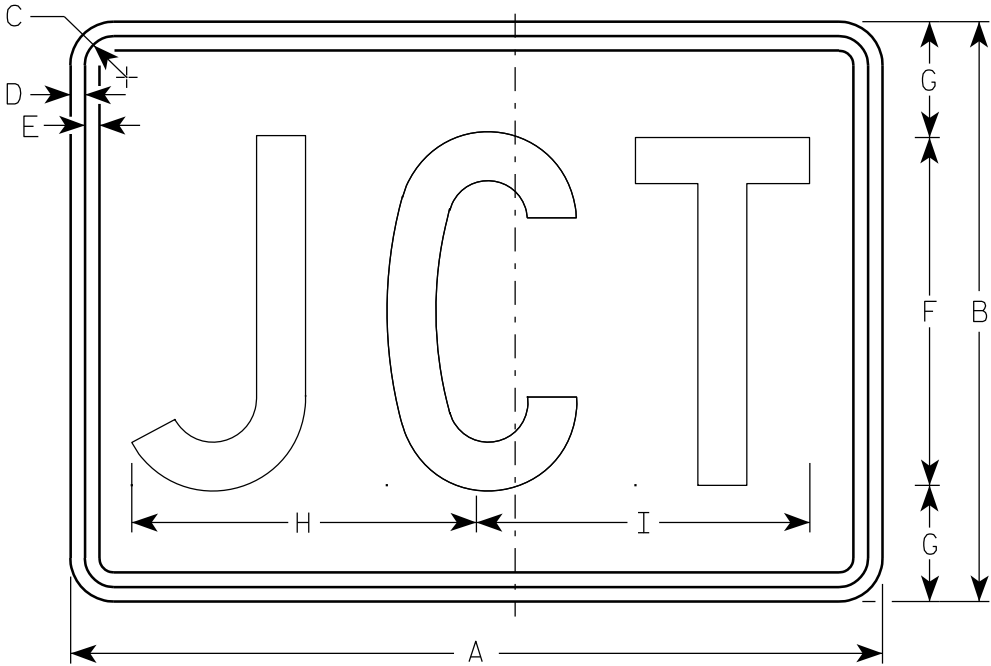
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
For State Traffic Engineer

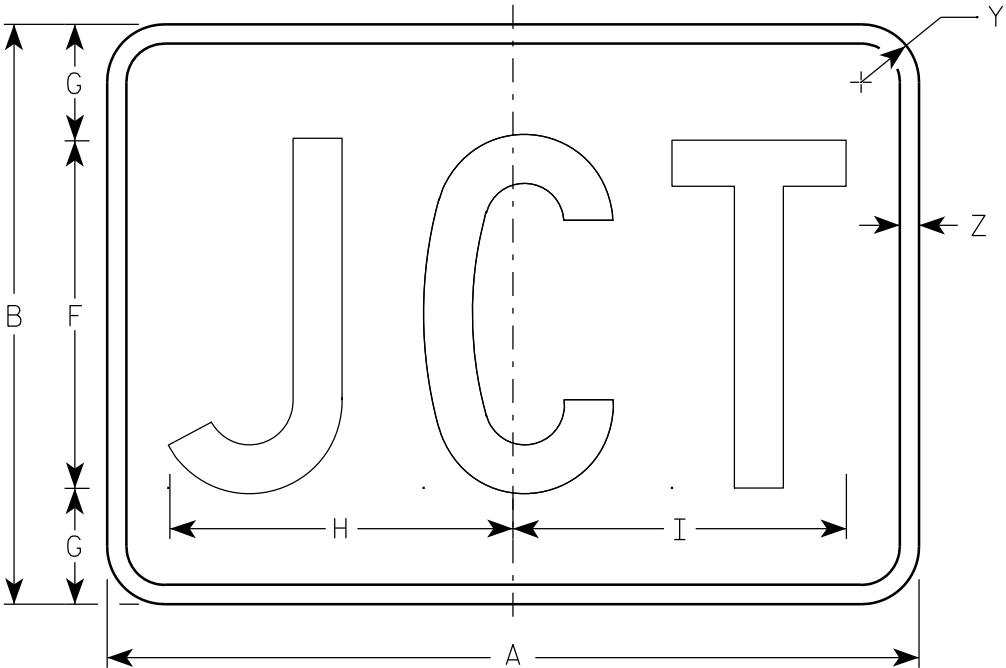
DATE 9/27/11 PLATE NO. M1-5A.8

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

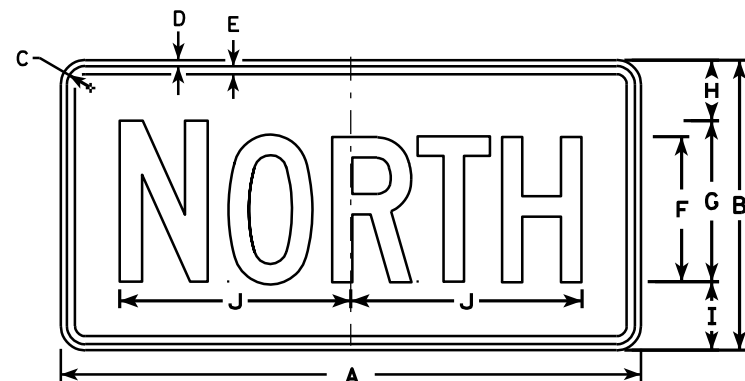
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

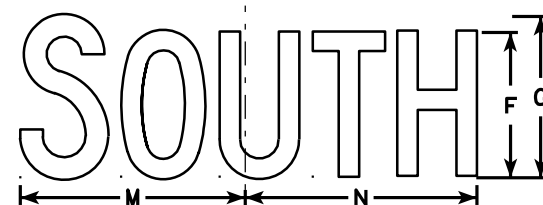
E



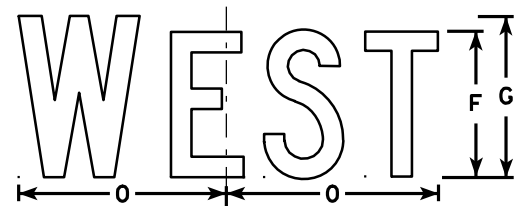
M3-1
MK3-1
M03-1



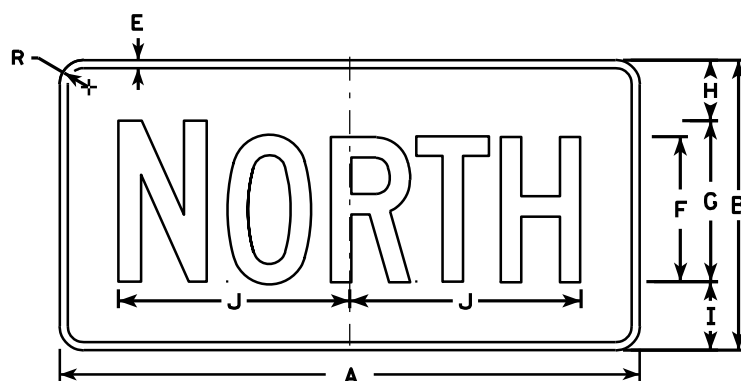
M3-2
MK3-2
M03-2



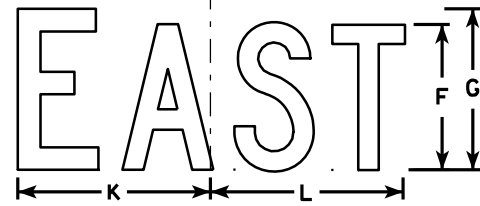
M3-3
MK3-3
M03-3



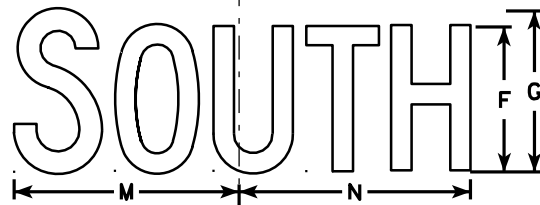
M3-4
MK3-4
M03-4



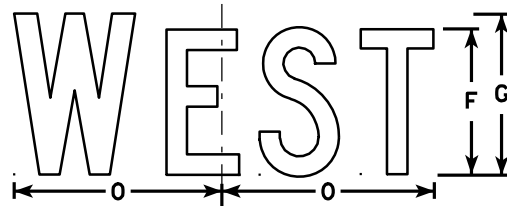
MB3-1
MG3-1
MM3-1
MN3-1



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 - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - See note 5
Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White - Type H Reflective (Detour or temporary signs - Reflective)
Message - Black
MB3-1 thru MB3-4 Background - Blue
Message - White - Type H Reflective (Detour or temporary signs - Reflective)
MG3-1 thru MG3-4 Background - Green
Message - White - Type H Reflective
MK3-1 thru MK3-4 Background - Green
Message - White - Type H Reflective
MM3-1 thru MM3-4 Background - White - Type H Reflective
Message - Green
MN3-1 thru MN3-4 Background - Brown
Message - White - Type H Reflective
M03-1 thru M03-4 Background - Orange - Reflective
Message - Black
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

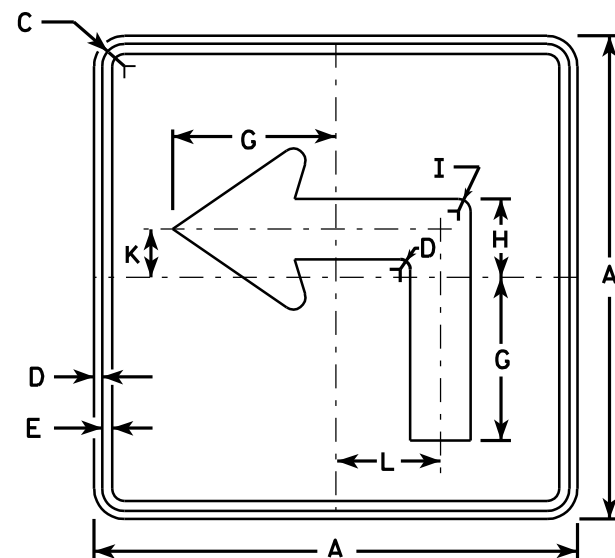
PROJECT NO: HWY: COUNTY: SHEET NO: E

STANDARD SIGNS
M3-1 thru M3-4
SERIES

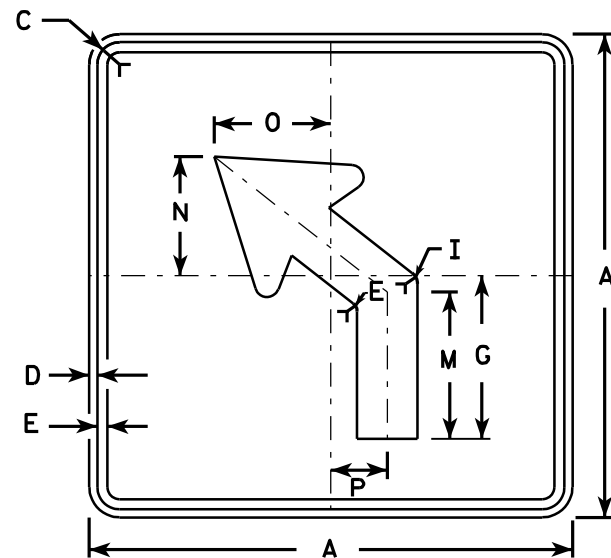
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

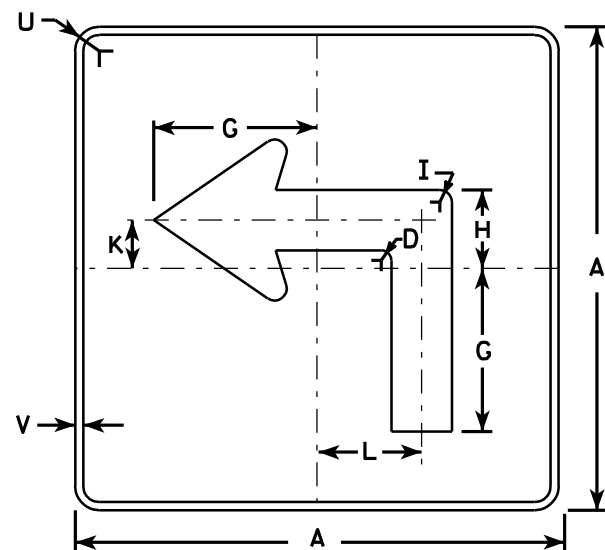
DATE 11/10/10 PLATE NO. M3-1.12



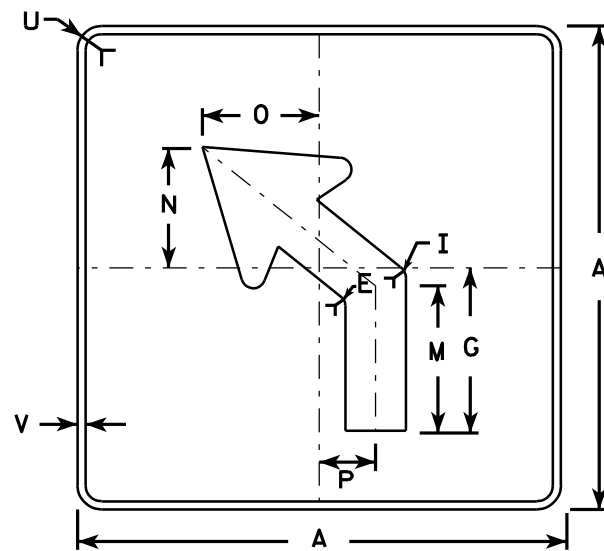
M5-1L
MK5-1L
MM5-1L
MO5-1L
MR5-1L



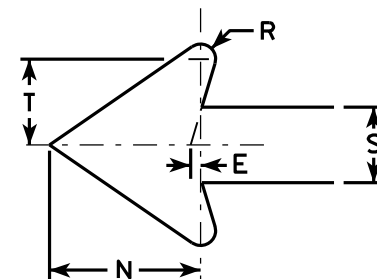
M5-2L
MK5-2L
MM5-2L
MO5-2L
MR5-2L



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



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 (Detour or temporary Signs - Reflective)
Message - Black
MB5-1 and MB5-2 Background - Blue
Message - White - Type H Reflective (Detour or temporary Signs - 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
MO5-1 and MO5-2 Background - Orange - Reflective
Message - Black
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.

Metric equivalent
for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
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	0.28
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	0.56
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	0.56
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	0.56

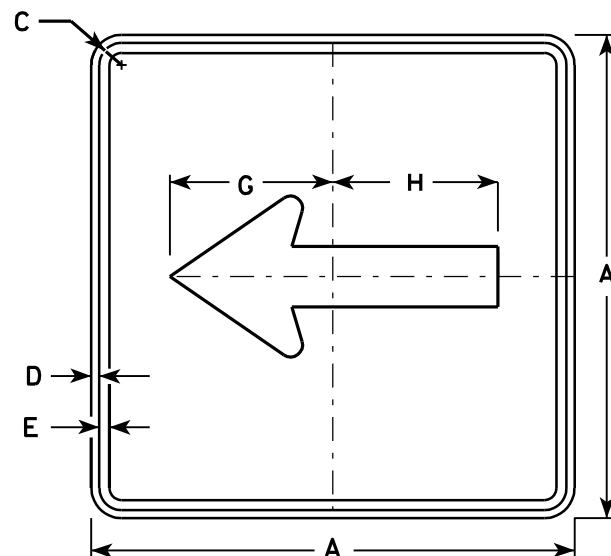
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STANDARD SIGN
M5-1 & M5-2

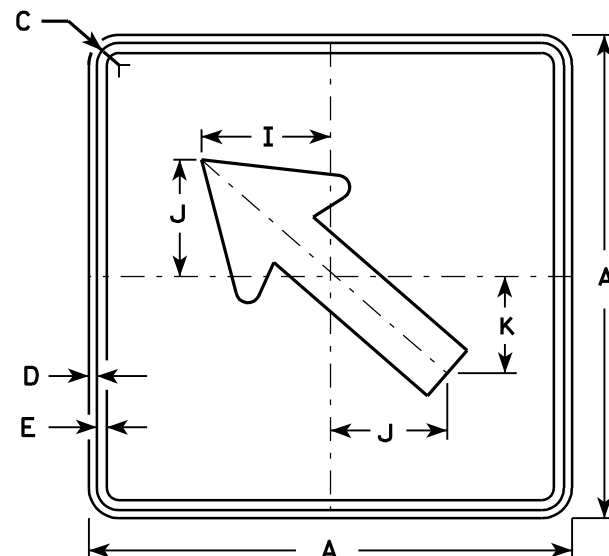
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

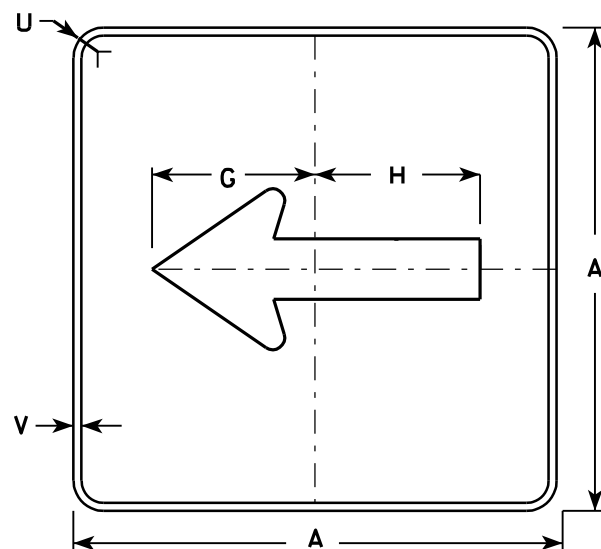
DATE 3/16/10 PLATE NO. M5-1.11



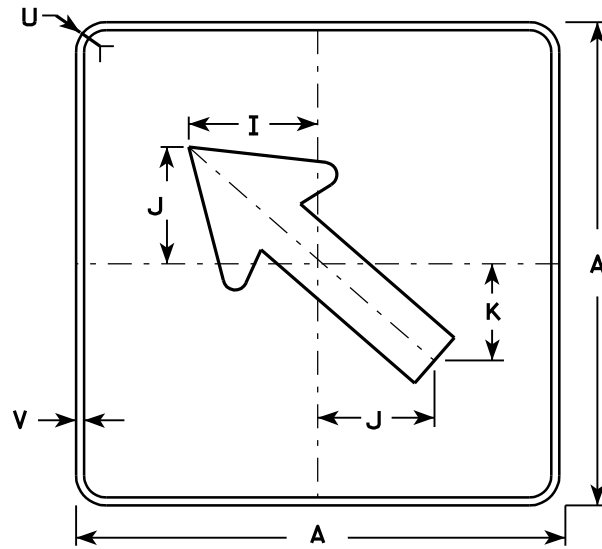
M6-1
MK6-1
MM6-1
MO6-1
MR6-1



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



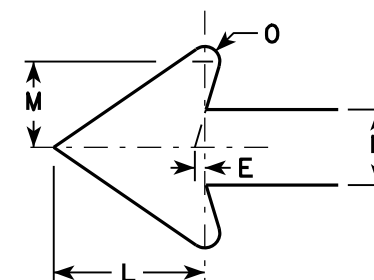
MB6-1
MG6-1
MN6-1



MB6-2
MG6-2
MN6-2

NOTES

- 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
(Detour or temporary Signs - Reflective)
Message - Black
MB6-1 and MB6-2 Background - Blue
Message - White - Type H Reflective
(Detour or temporary Signs - Reflective)
MG6-1 and MG6-2 Background - Green
Message - White - Type H Reflective
MK6-1 and MK6-2 Background - Green
Message - White - Type H Reflective
MM6-1 and MM6-2 Background - White - Type H Reflective
Message - Green
MN6-1 and MN6-2 Background - Brown
Message - White - Type H Reflective
MO6-1 and MO6-2 Background - Orange - Reflective
Message - Black
MR6-1 and MR6-2 Background - Brown
Message - Yellow - Type H Reflective



Metric equivalent
for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56

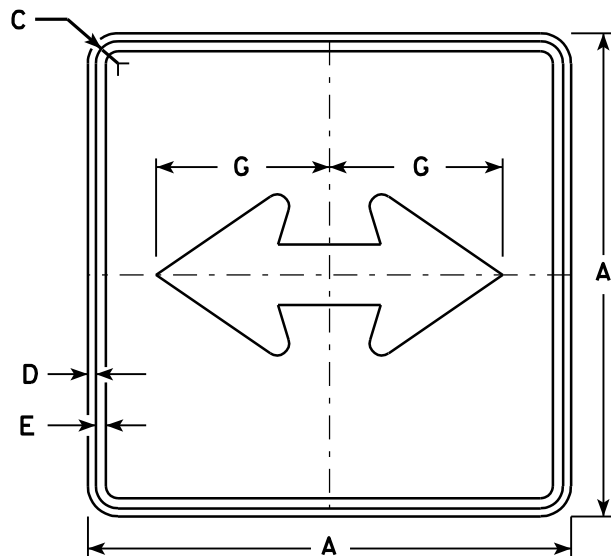
PROJECT NO: HWY: COUNTY: SHEET NO: E

STANDARD SIGN M6-1 & M6-2 SERIES

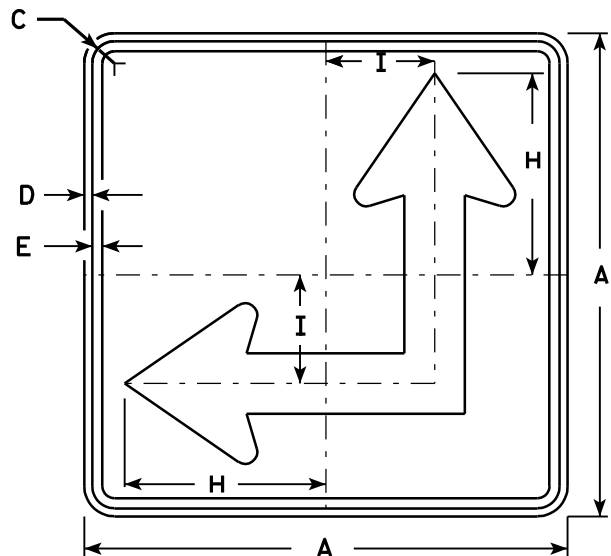
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

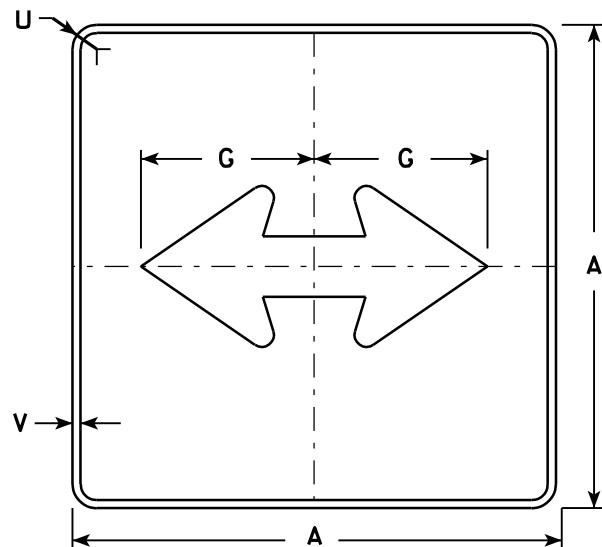
DATE 3/16/10 PLATE NO. M6-1.12



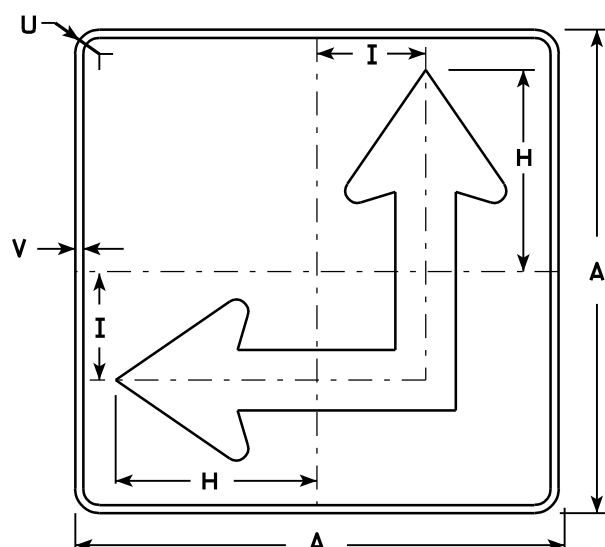
M6 - 4
MK6 - 4
MM6 - 4
MO6 - 4
MR6 - 4



M6 - 6
MK6 - 6
MM6 - 6
MO6 - 6
MR6 - 6



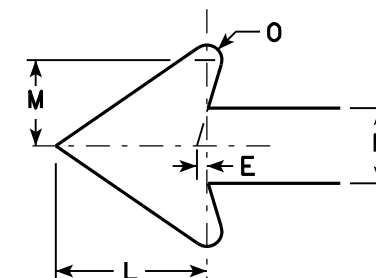
MB6 - 4
MG6 - 4
MN6 - 4



MB6 - 6
MG6 - 6
MN6 - 6

NOTES

- 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.
- M6-4 and M6-6
 - Background - White - Type H Reflective (Detour or temporary Signs - Reflective)
 - Message - Black
 - MB6-4 and MB6-6
 - Background - Blue
 - Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
 - MG6-4 and MG6-6
 - Background - Green
 - Message - White - Type H Reflective
 - MK6-4 and MK6-6
 - Background - Green
 - Message - White - Type H Reflective
 - MM6-4 and MM6-6
 - Background - White - Type H Reflective
 - Message - Green
 - MN6-4 and MN6-6
 - Background - Brown
 - Message - White - Type H Reflective
 - MO6-4 and MO6-6
 - Background - Orange - Reflective
 - Message - Black
 - MR6-4 and MR6-6
 - Background - Brown
 - Message - Yellow - Type H Reflective
- M6-6R same as M6-6L except arrow points ahead and right.



Metric equivalent
for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56

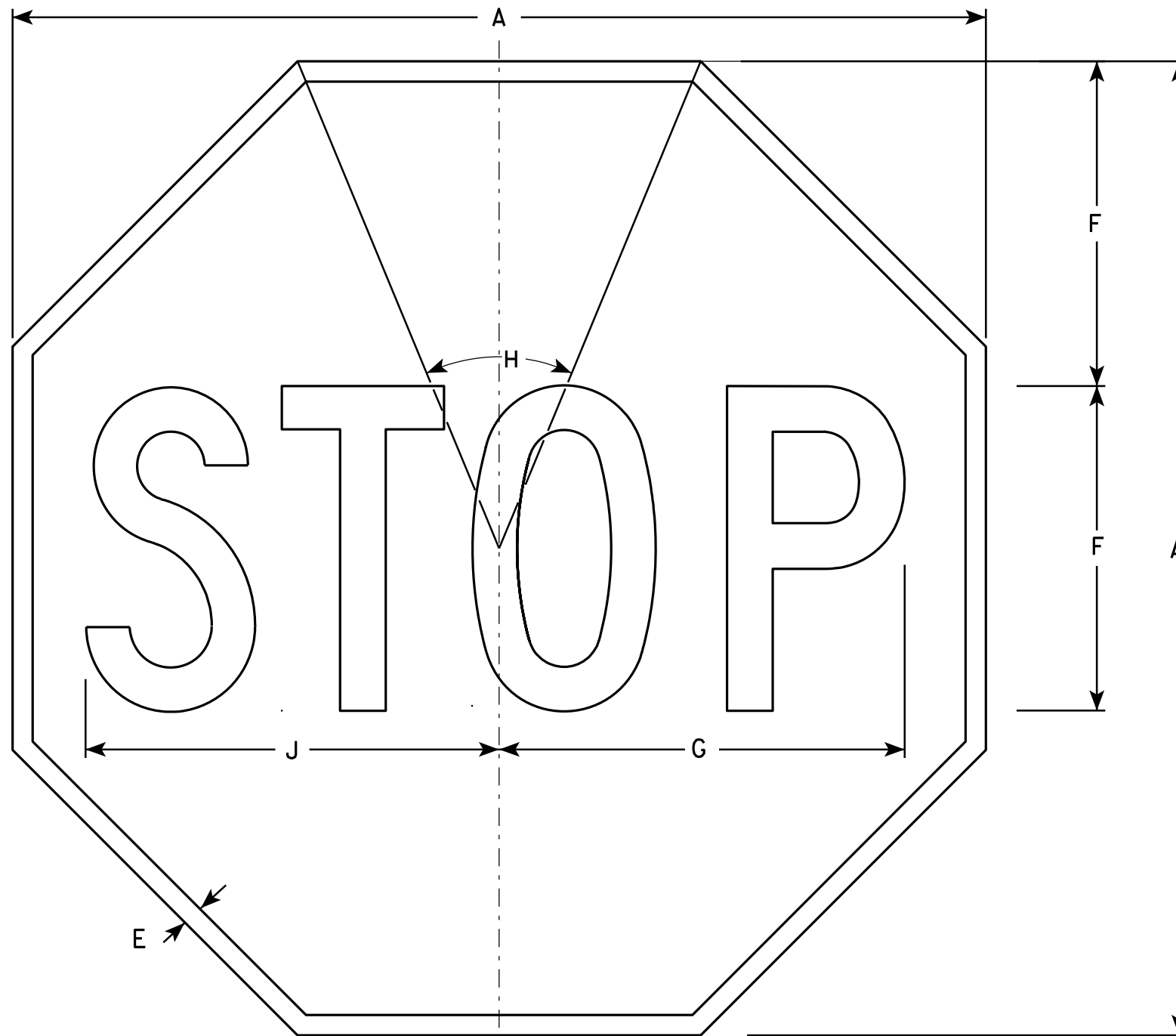
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STANDARD SIGN
M6 - 4 & M6 - 6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/16/10 PLATE NO. M6-4.7



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

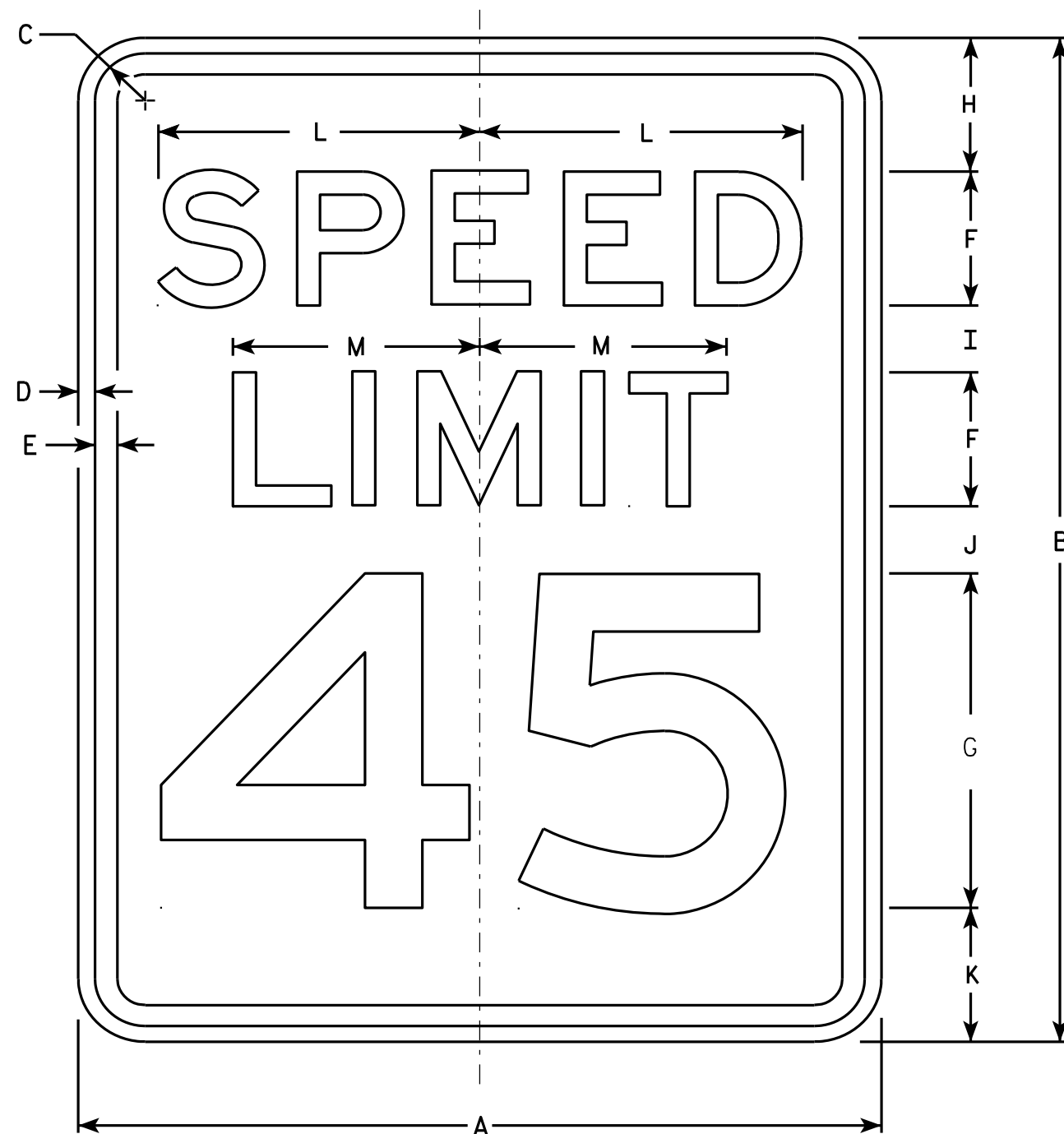
STANDARD SIGN
R1-1

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
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R2-1

NOTES

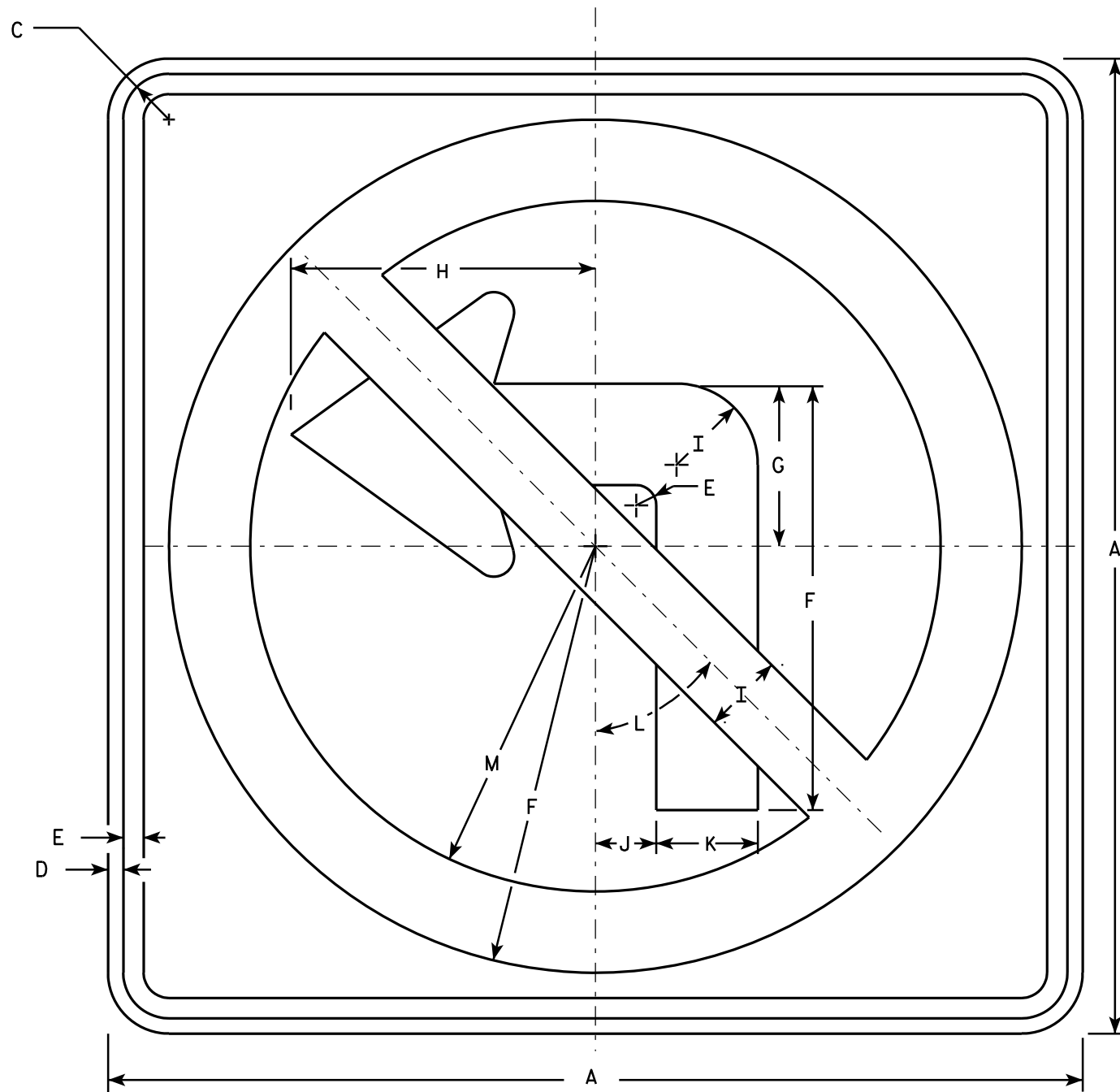
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as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

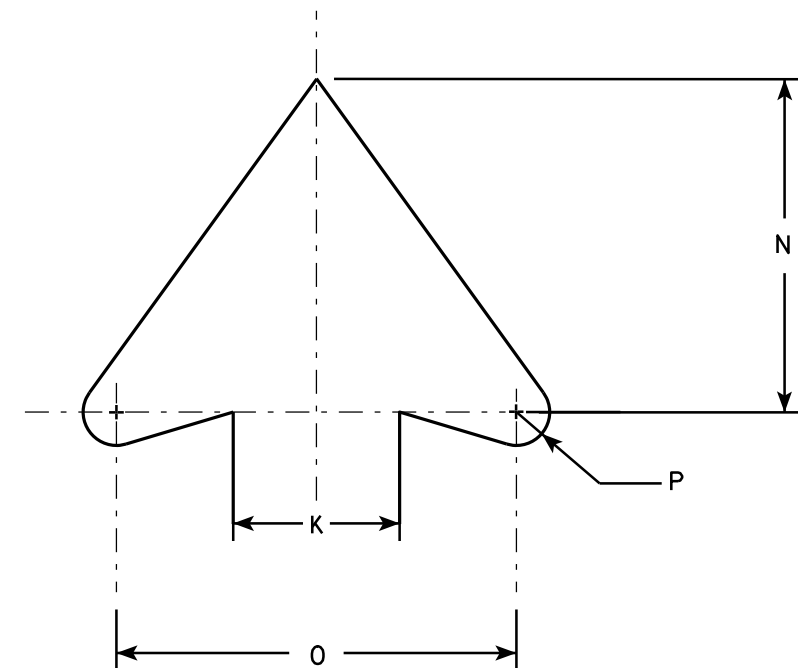
PROJECT NO: HWY: COUNTY: SHEET NO: E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

STANDARD SIGN R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

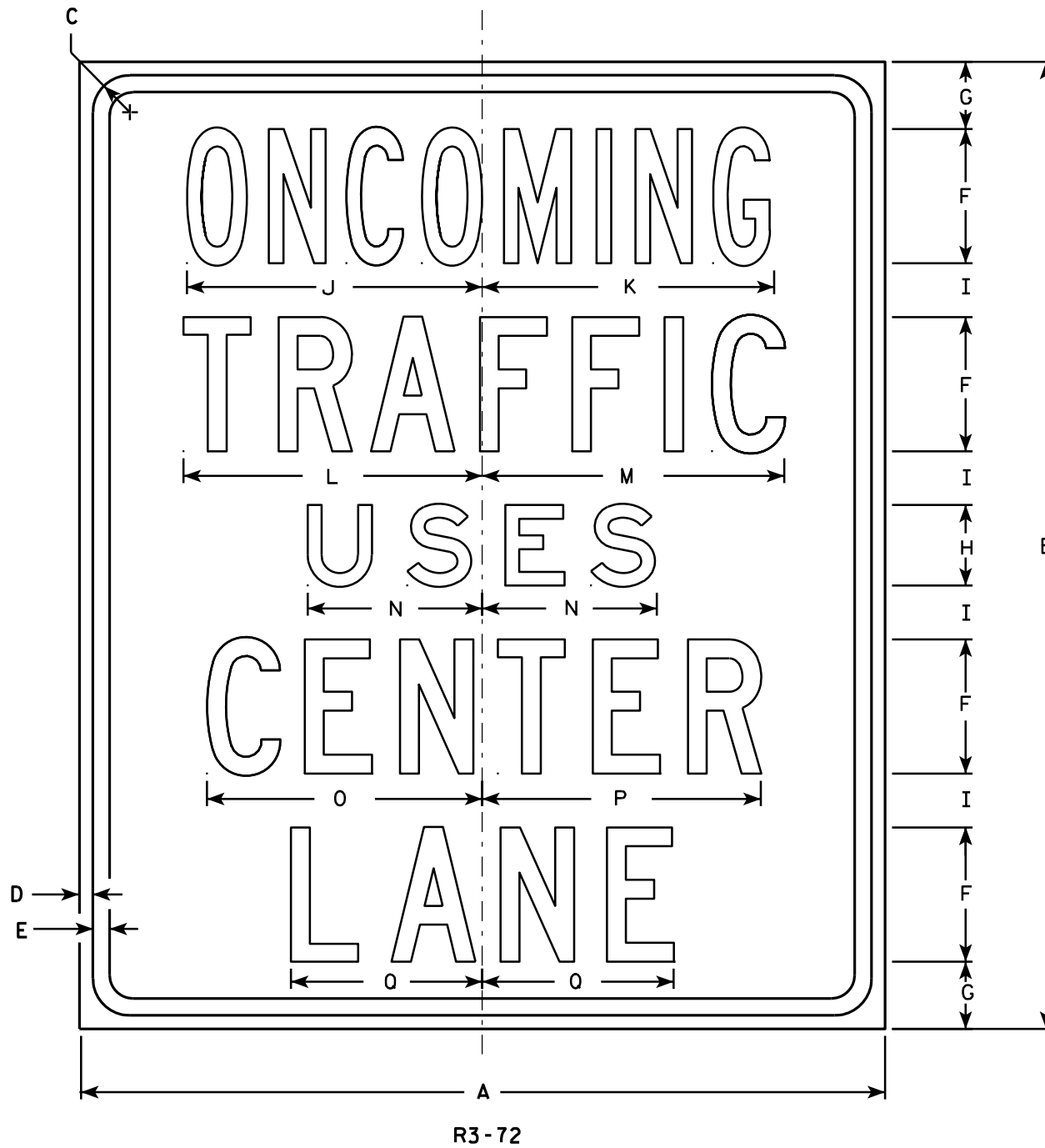
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

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 - Line 1 is Series B, Lines 2, 4 and 5 are Series C, and Line 3 is 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.

R3-72

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	36	1 3/8	1/2	5/8	5	2 1/2	3	2	11	10 7/8	11 1/8	11 1/4	6 1/2	10 1/4	10 3/8	7 1/8										7.50
2S	30	36	1 3/8	1/2	5/8	5	2 1/2	3	2	11	10 7/8	11 1/8	11 1/4	6 1/2	10 1/4	10 3/8	7 1/8										7.50
2M	30	36	1 3/8	1/2	5/8	5	2 1/2	3	2	11	10 7/8	11 1/8	11 1/4	6 1/2	10 1/4	10 3/8	7 1/8										7.50
3																											
4																											
5																											

STANDARD SIGN R3-72

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R3-72.5

PROJECT NO: HWY: COUNTY: SHEET NO: E



R4-3

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
2M	24	30	1 1/8	3/8	1/2	4	3 5/8	2 1/4	9 3/4	10	6 1/4	6 3/4	7 1/8	7 5/8													5.0
3	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
4	36	48	1 5/8	5/8	3/4	6	6	4	14 5/8	15	9 3/8	10	10 3/4	11 3/8													12.0
5	48	60	2 1/4	3/4	1	8	7 1/4	4 1/2	19 1/2	20	12 1/2	13 1/2	14 1/4	15 1/4													20.0

STANDARD SIGN

R4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-3.8

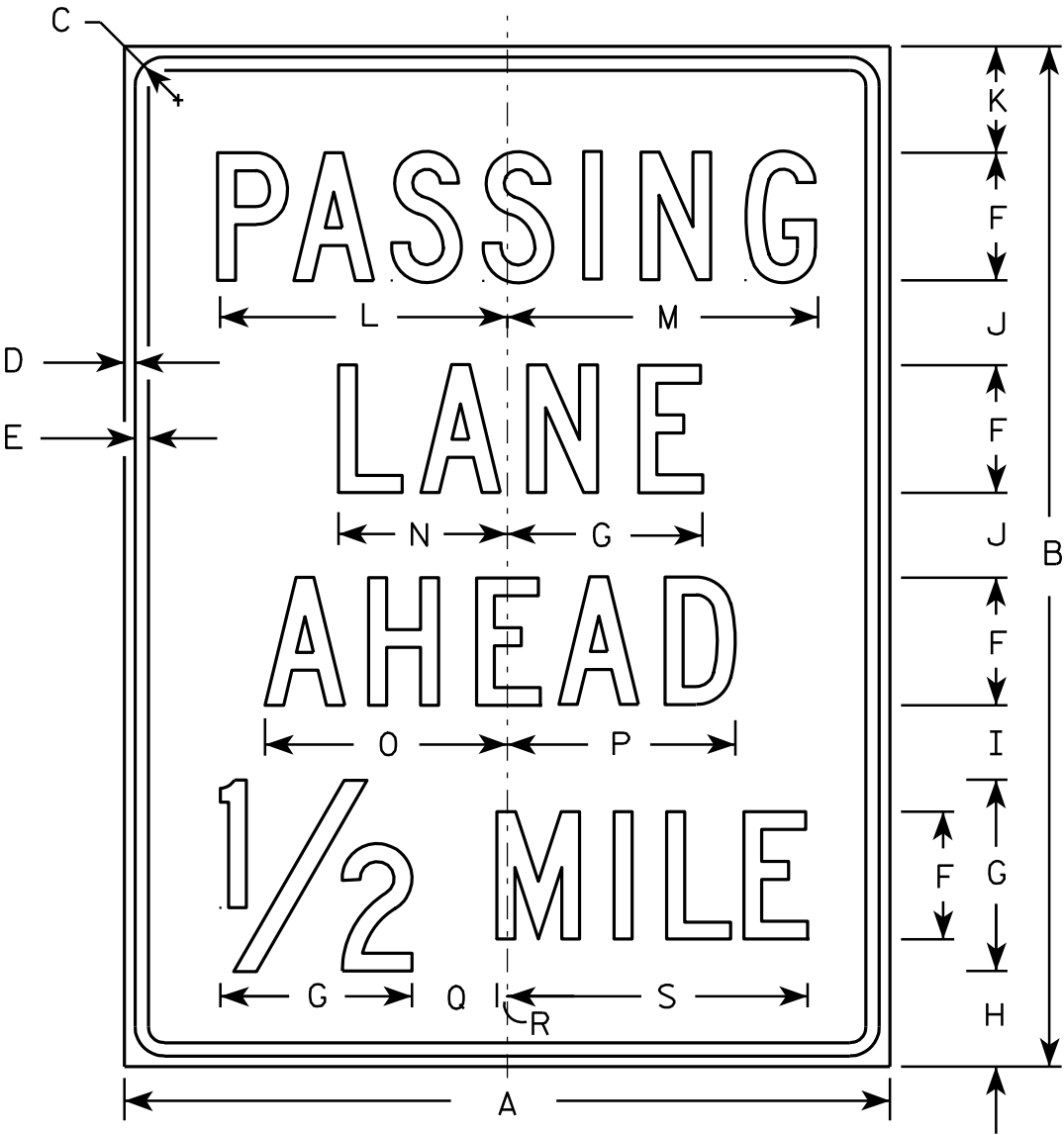
PROJECT NO:

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 - 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.



R4-51

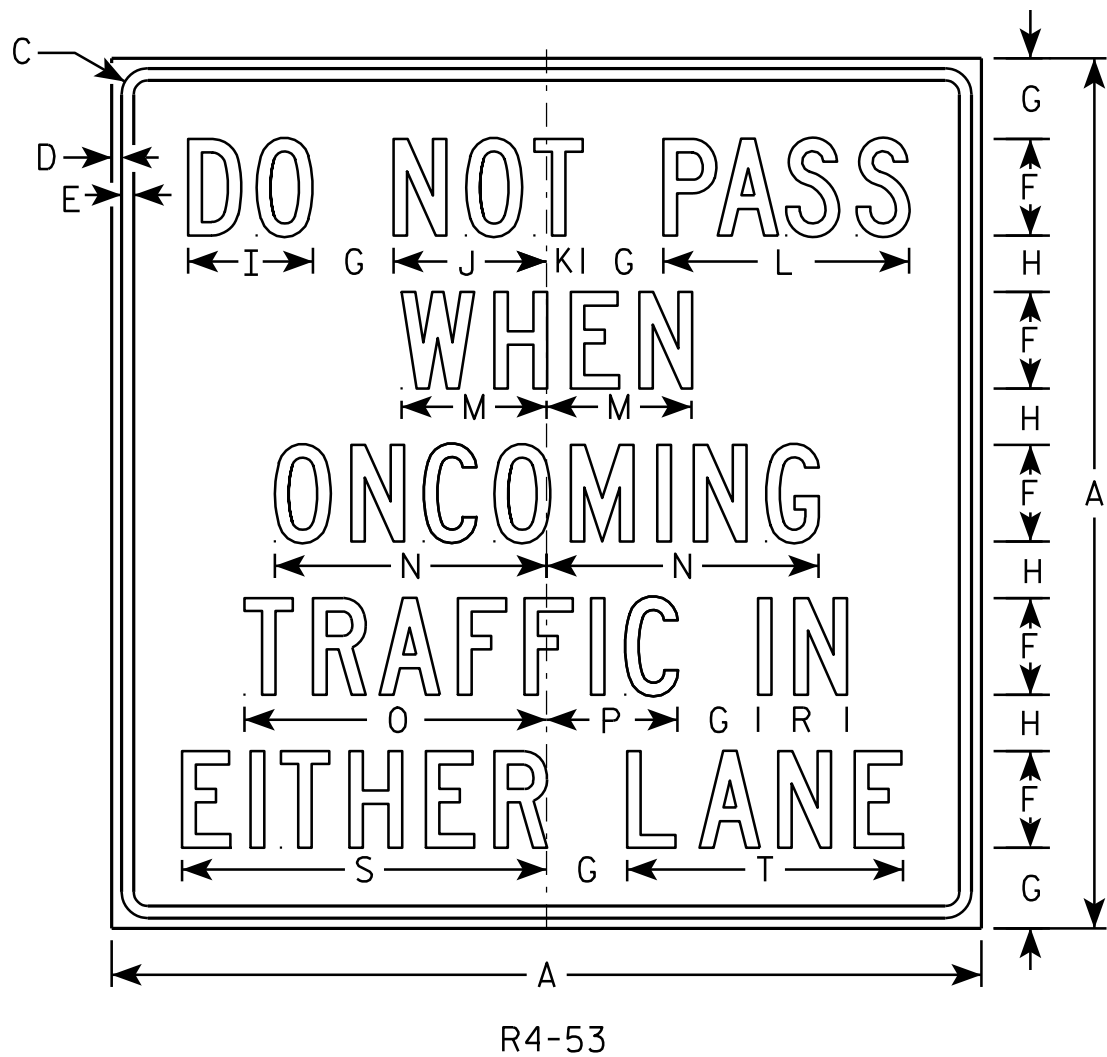
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36	48	1 ³ / ₈	1/2	⁵ / ₈	6	9	4 1/2	3 1/2	4	5	13 ⁵ / ₈	14 1/2	8	11 ³ / ₈	10 ³ / ₄	4	1/2	14 1/8								12.0
2M	36	48	1 ³ / ₈	1/2	⁵ / ₈	6	9	4 1/2	3 1/2	4	5	13 ⁵ / ₈	14 1/2	8	11 ³ / ₈	10 ³ / ₄	4	1/2	14 1/8								12.0
3																											
4																											
5																											

STANDARD SIGN
R4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/29/2011 PLATE NO. R4-51.4



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - WHITE
Message - BLACK
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

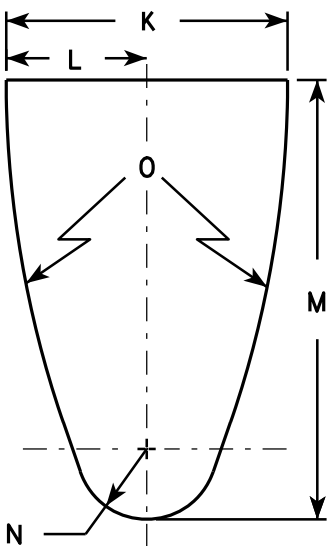
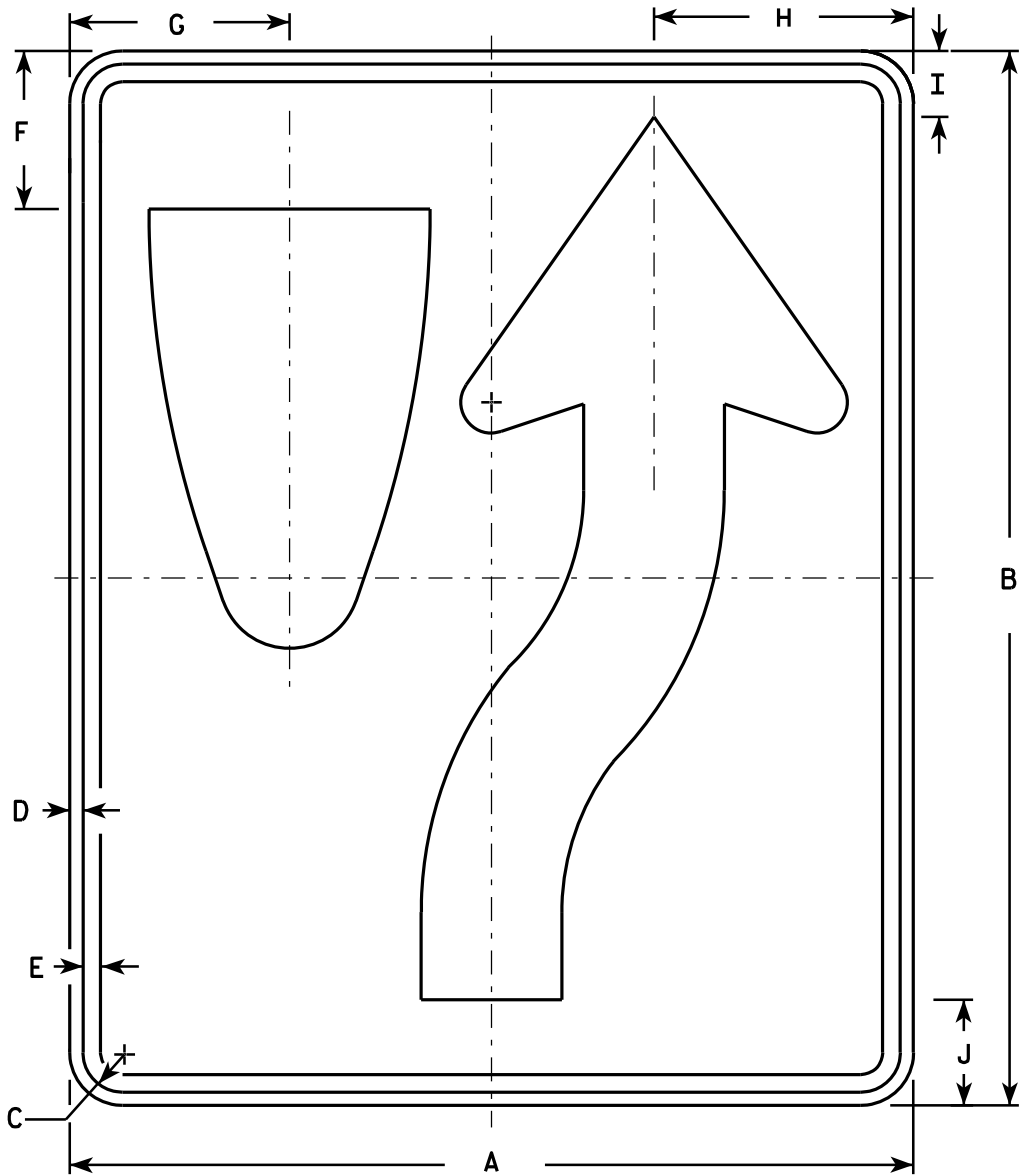
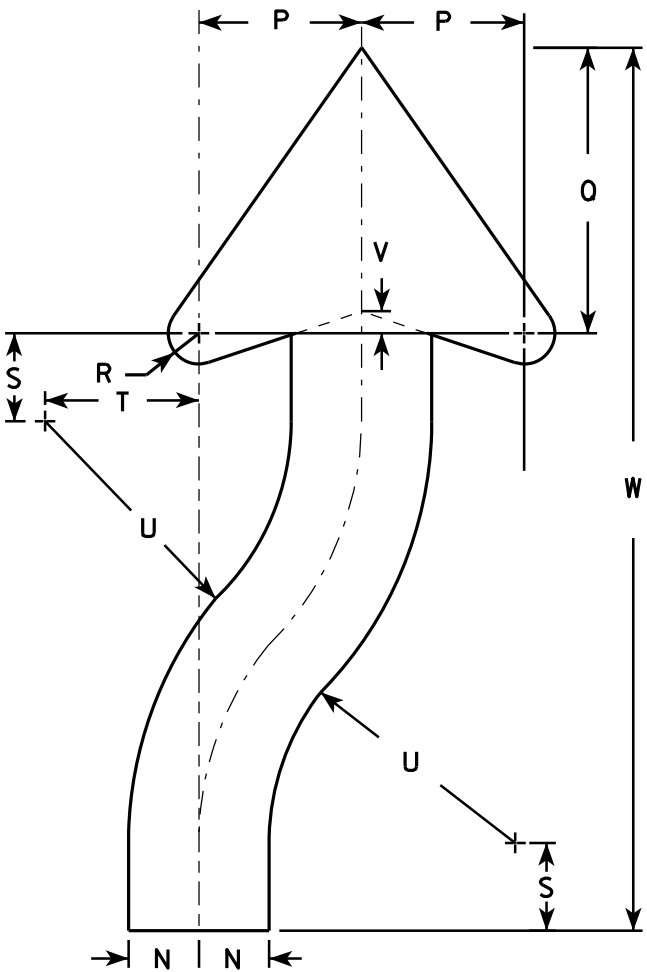
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	54		1 5/8	5/8	3/4	6	5	3 1/2	7 3/4	9 1/2	2 1/4	15 1/4	9	16 7/8	18 3/4	8 1/8		5 1/2	22 5/8	17 1/8							20.25
2M	54		1 5/8	5/8	3/4	6	5	3 1/2	7 3/4	9 1/2	2 1/4	15 1/4	9	16 7/8	18 3/4	8 1/8		5 1/2	22 5/8	17 1/8							20.25
3																											
4																											
5																											

STANDARD SIGN R4-53	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 6/2/10	PLATE NO. R4-53.1

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

- 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
- 2. Color:
Background - White
Message - Black
- 3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
- 4. R4-8 is the same as R4-7 except Legend is reversed.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

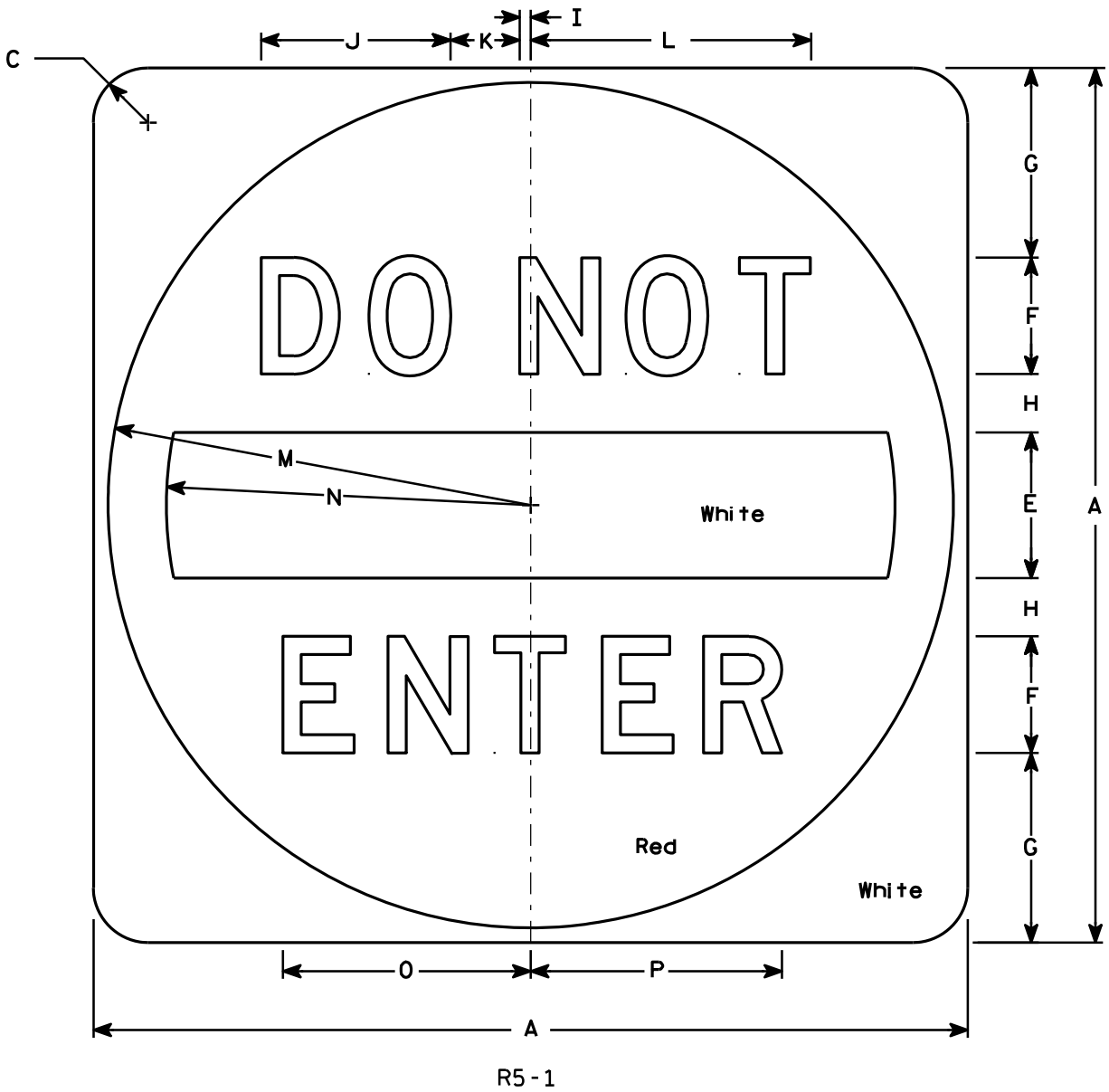
E

NOTES

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

Background - See detail

Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the corners shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7⁄8		5	4	6 1⁄2	2	3⁄8	6 1⁄2	2 3⁄8	9 5⁄8	14 1⁄2	12 1⁄2	8 1⁄2	8 5⁄8											6.26
2M	36		2 1⁄4		6	5	7 1⁄2	2 1⁄2	1⁄2	8 1⁄8	3	12 1⁄8	17 1⁄2	15	10 5⁄8	10 3⁄4											9.0
3	36		2 1⁄4		6	5	7 1⁄2	2 1⁄2	1⁄2	8 1⁄8	3	12 1⁄8	17 1⁄2	15	10 5⁄8	10 3⁄4											9.0
4	36		2 1⁄4		6	5	7 1⁄2	2 1⁄2	1⁄2	8 1⁄8	3	12 1⁄8	17 1⁄2	15	10 5⁄8	10 3⁄4											9.0
5	48		3		8	6	11	3	5⁄8	9 3⁄4	3 5⁄8	14 1⁄2	23 1⁄2	20	12 3⁄4	12 7⁄8											16.0

STANDARD SIGN

R5 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch

for State Traffic Engineer

DATE 12/17/10PLATE NO. R5-1.15

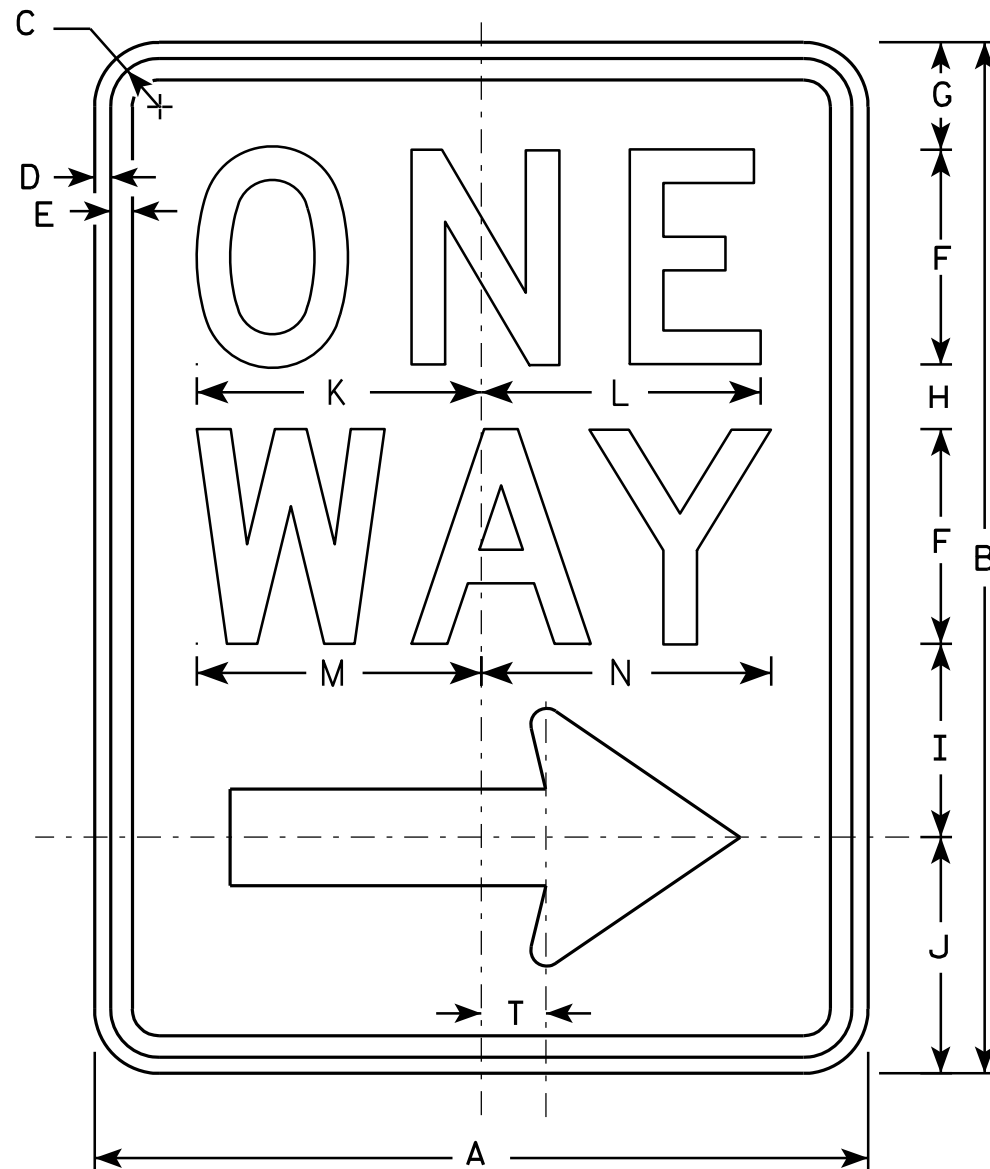
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

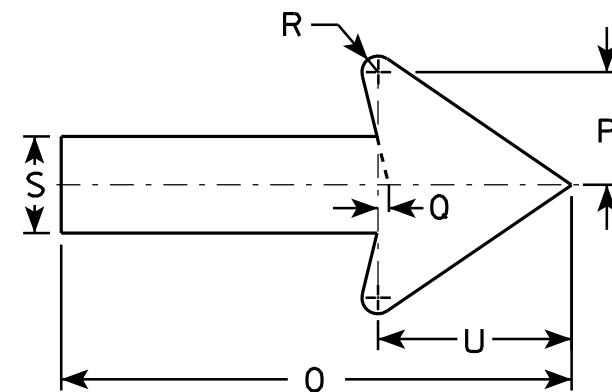
E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



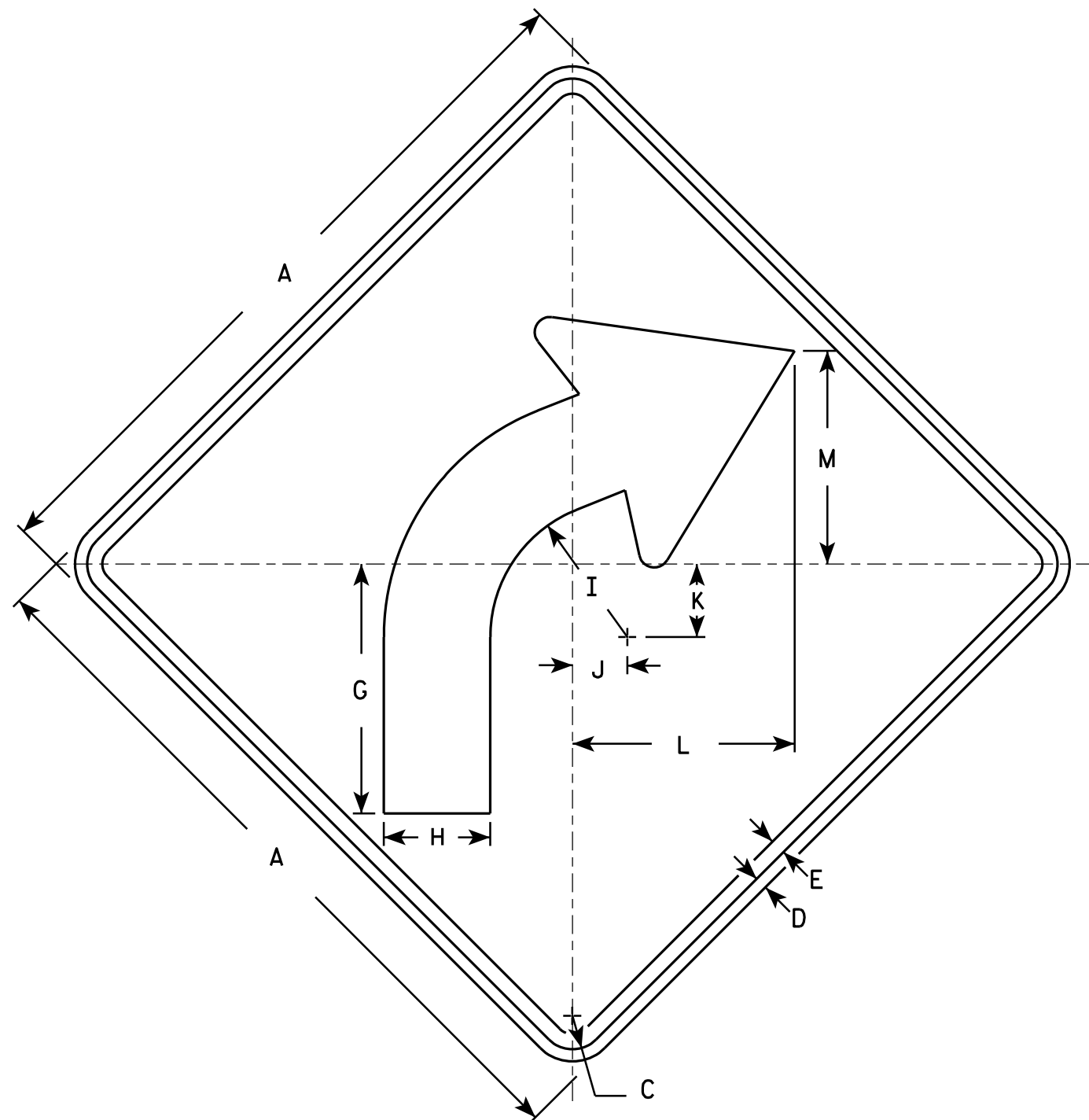
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

STANDARD SIGN R6-2 R&L	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 11/2/10	PLATE NO. R6-2.8

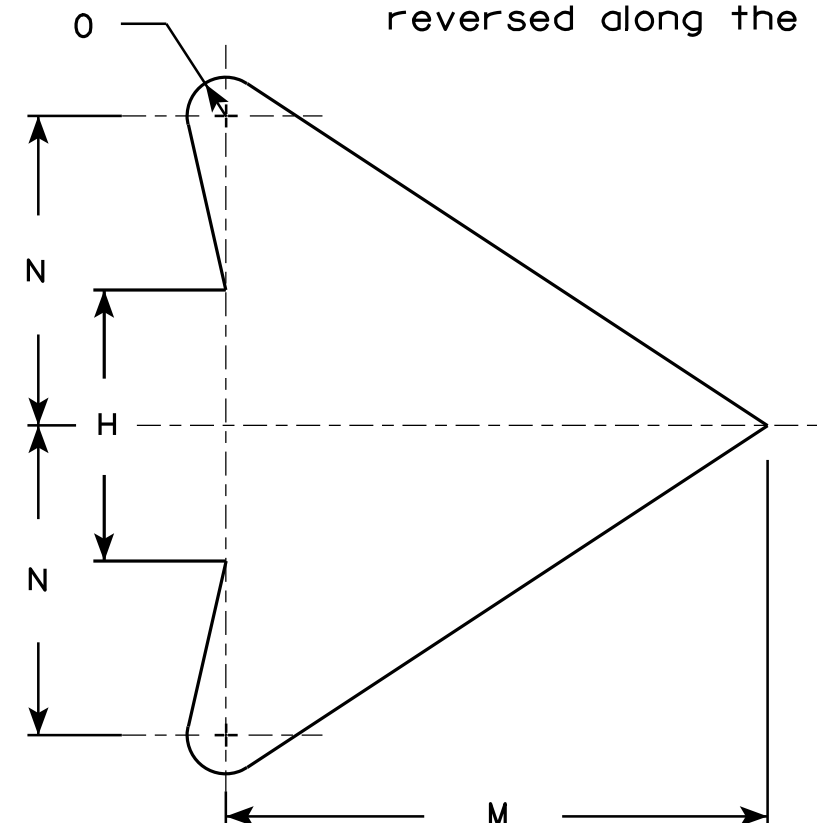
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

STANDARD SIGN

W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10

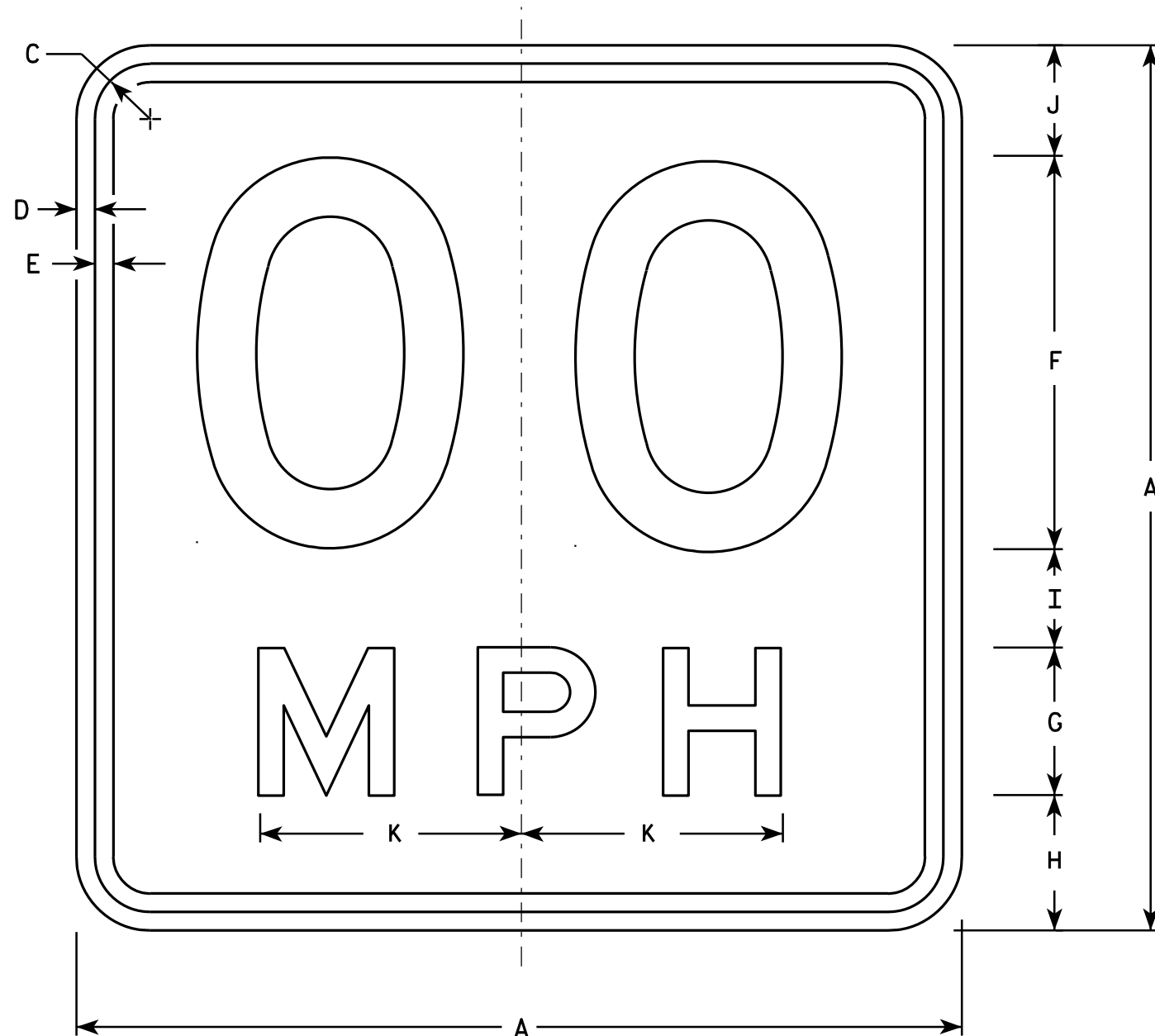
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

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 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
Line 2 is Series E

W13-1

- * For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN

W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

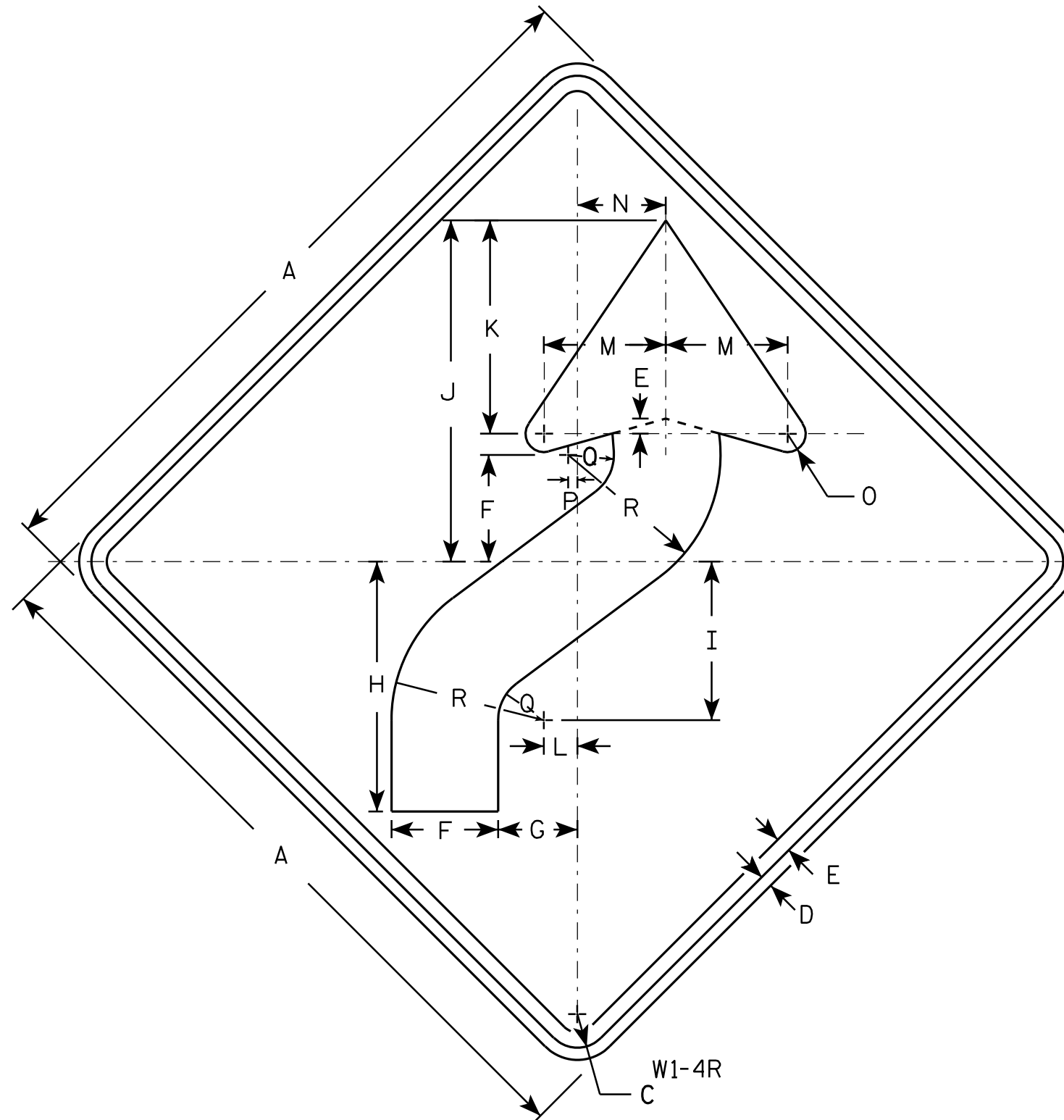
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

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.
- W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

STANDARD SIGN

W1 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

PROJECT NO:

HWY:

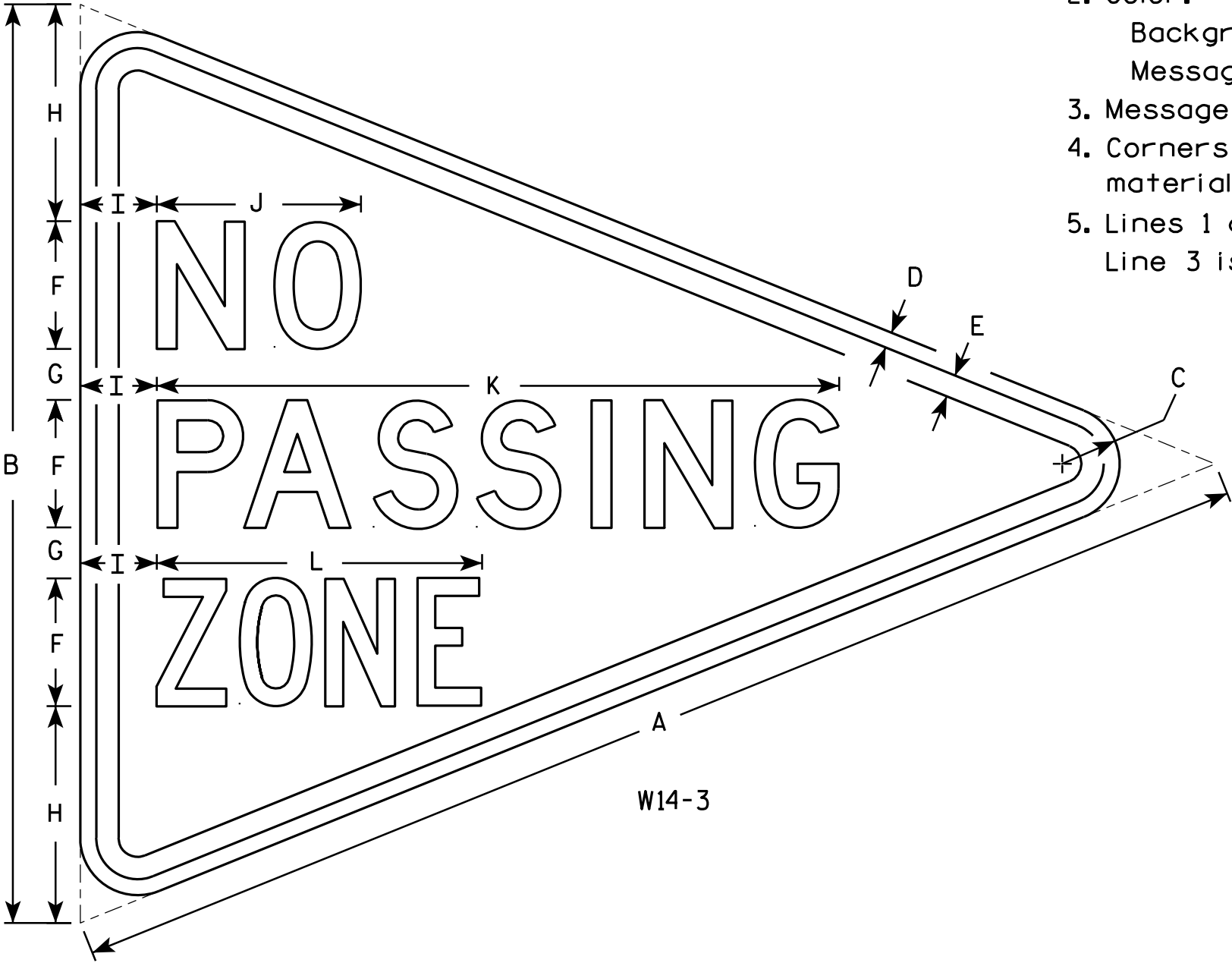
COUNTY:

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

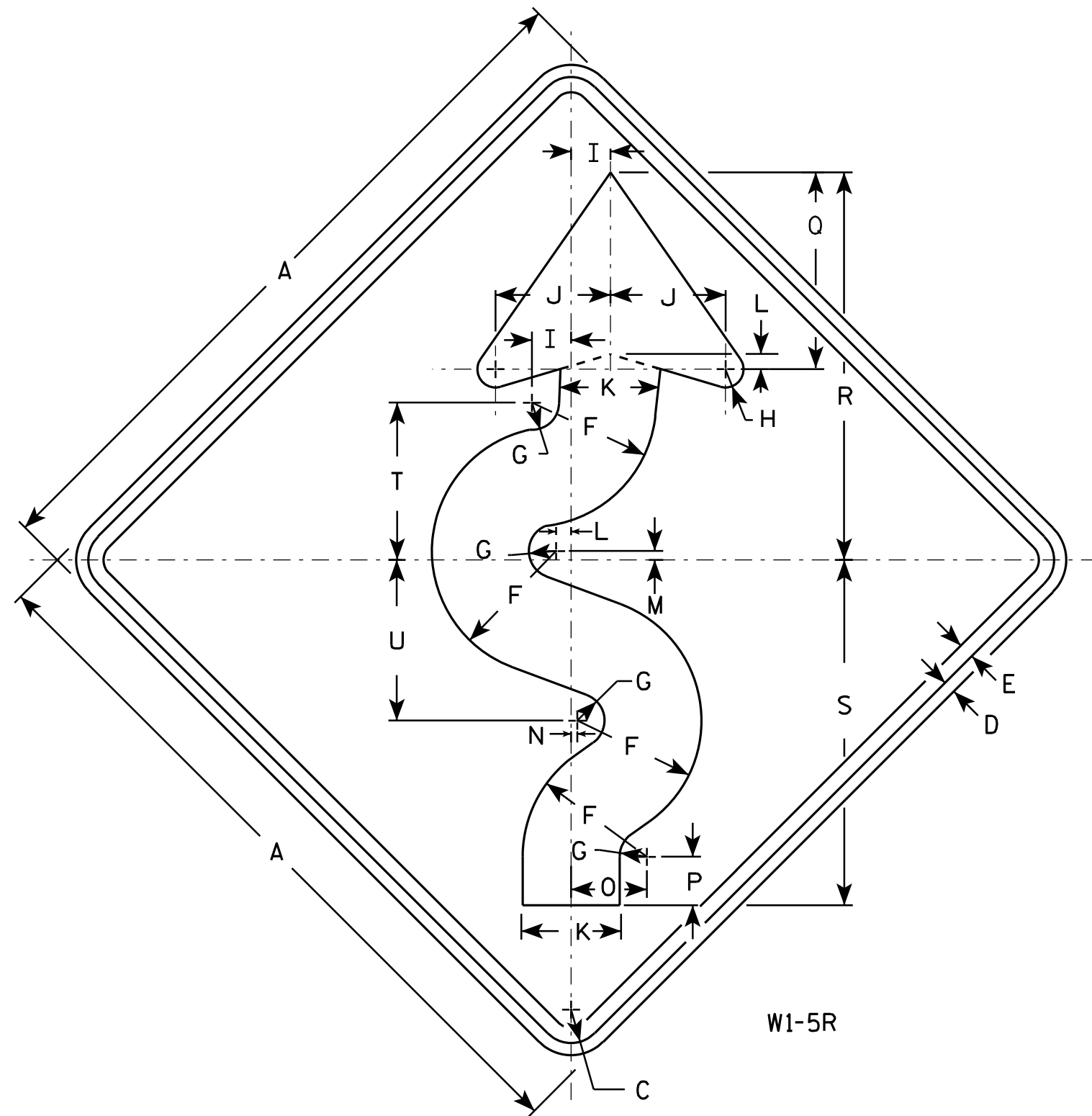
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2														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



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-5L is the same as W1-5R except the arrow is reversed along the vertical centerline.

W1-5R

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	24		1 1/8	3/8	1/2	4 1/8	7/8	5/8	1 1/4	3 3/4	3 1/4	1/2	1/4	1/8	2 1/2	1 5/8	6 1/2	12 3/4	11 3/8	5 1/4	5 1/4						4.0
2S	30		1 3/8	1/2	5/8	5 1/8	1 1/8	3/4	1 5/8	4 3/4	4 1/8	5/8	3/8	1/4	3 1/8	2	8 1/8	16	14 1/4	6 1/2	6 5/8						6.25
2M	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0
3	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0
4	36		1 5/8	5/8	3/4	6 1/4	1 3/8	1	1 7/8	5 5/8	4 7/8	3/4	3/8	1/4	3 3/4	2 7/8	9 3/4	19 1/8	17 1/8	7 3/4	7 7/8						9.0
5	48		2 1/4	3/4	1	8 1/4	1 3/4	1 1/4	2 1/2	7 1/2	6 1/2	1	1/2	3/8	5	3 1/4	13	25 1/2	22 3/4	10 3/8	10 1/2						16.0

STANDARD SIGN W1-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
for State Traffic Engineer

DATE 5/18/12

PLATE NO. W1-5.8

PROJECT NO:

HWY:

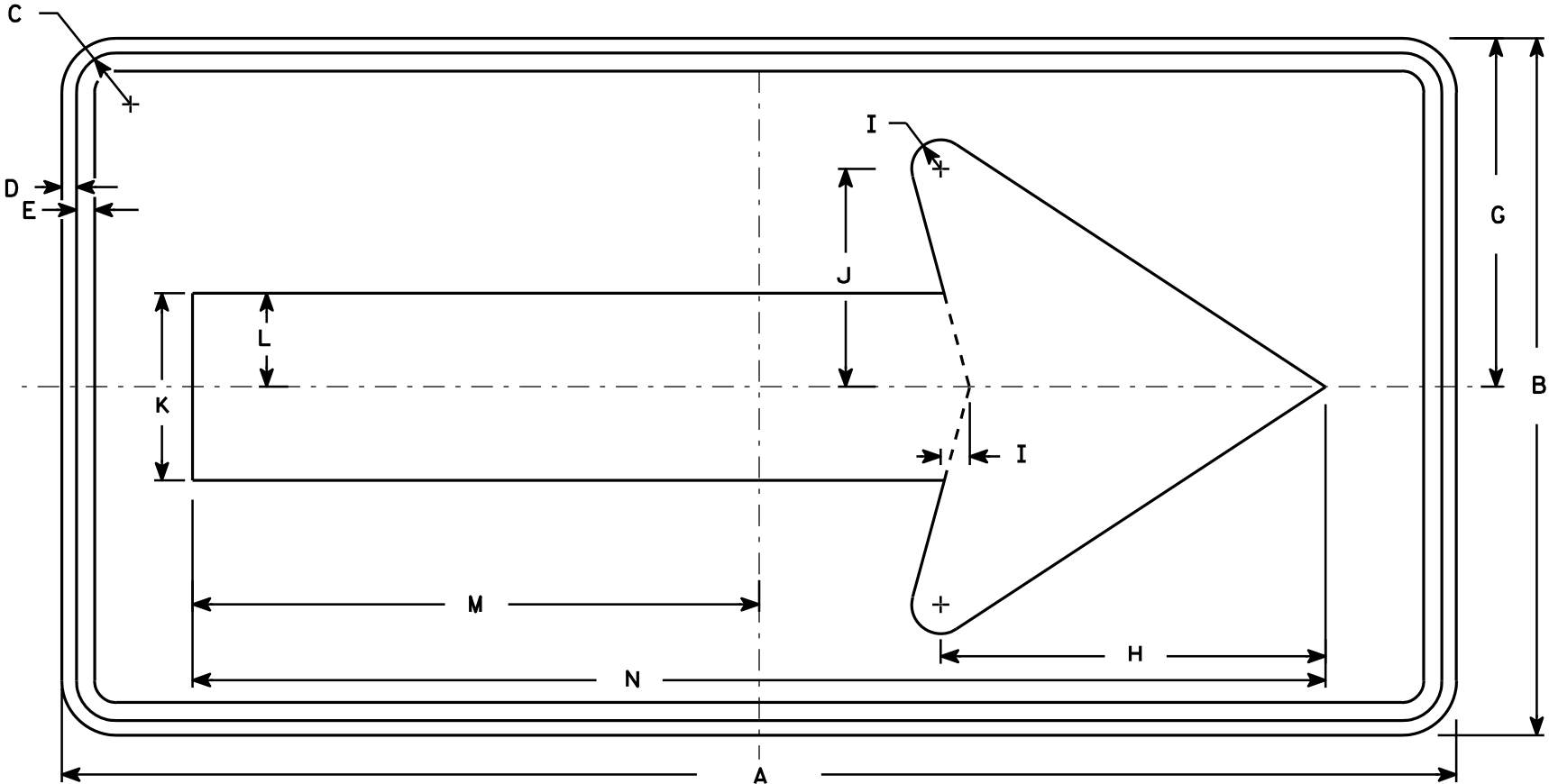
COUNTY:

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.



W1-6

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	36	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

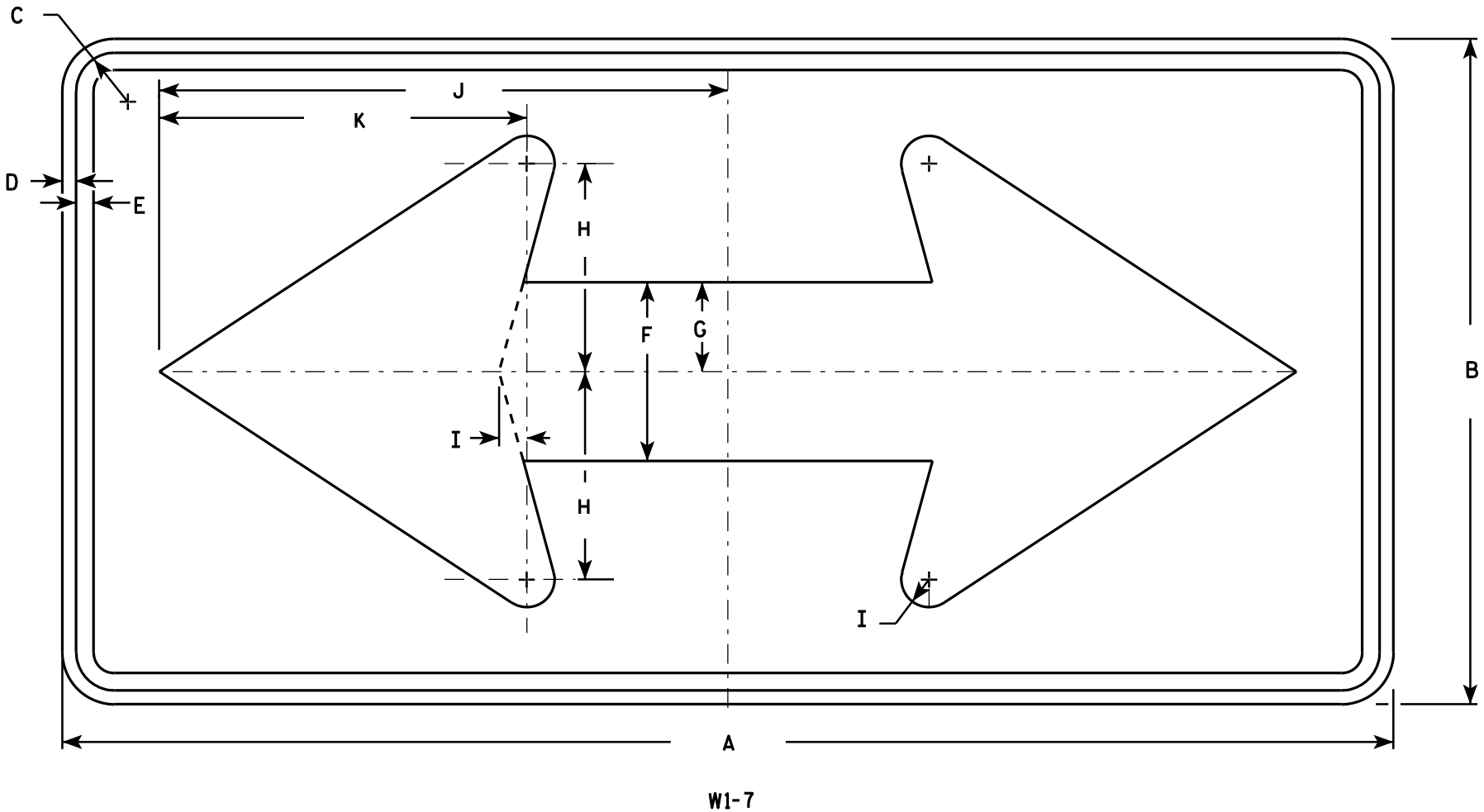
APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/7/10 PLATE NO. W1-6.8

PROJECT NO:

HWY:

COUNTY:

SHEET NO:



NOTES

- 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Yellow
Message - Black
- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

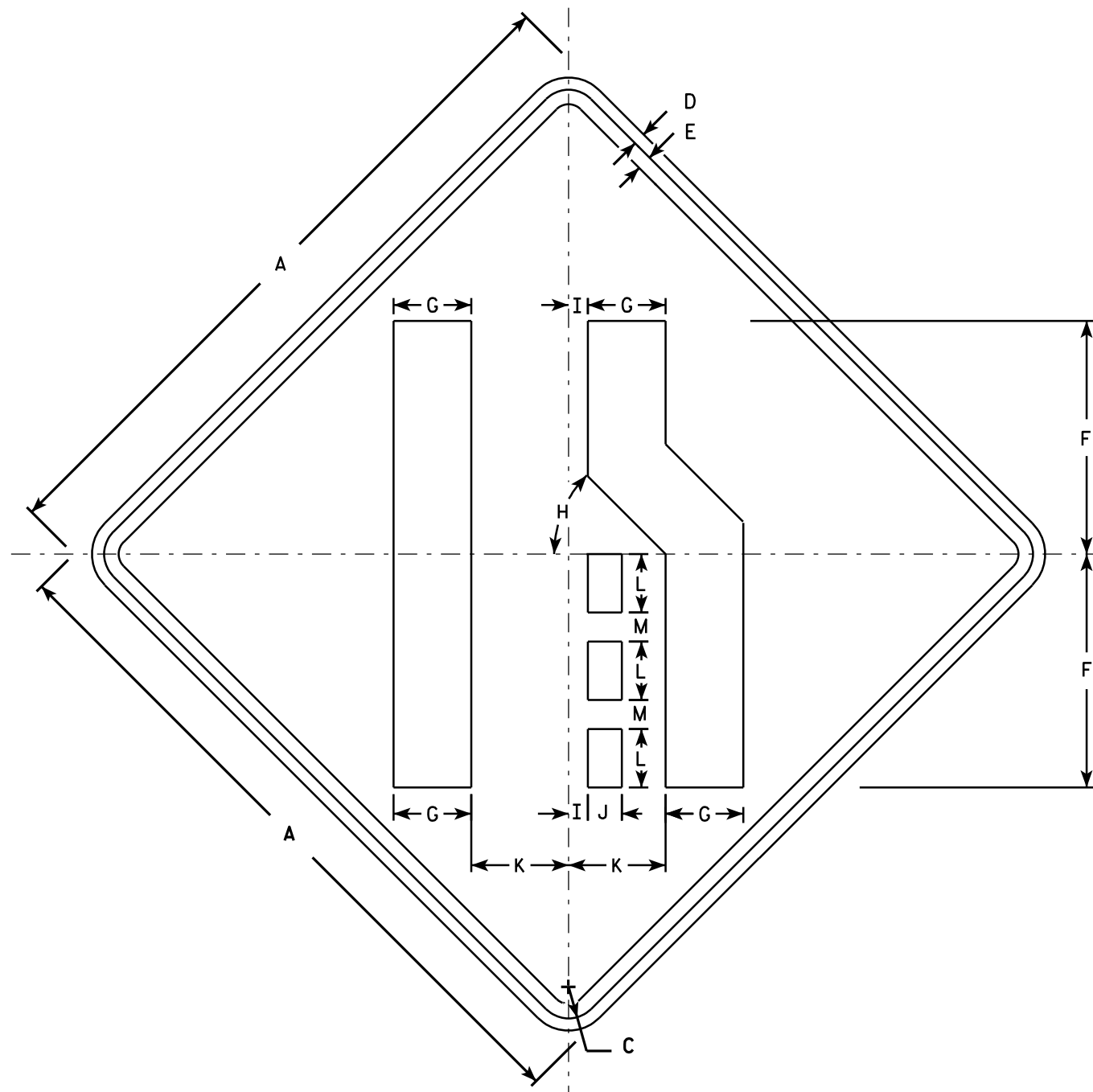
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

STANDARD SIGN
W1 - 7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7



W4-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-2L is the same as W4-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	10	3 3/8	45°	7/8	1 1/2	4 1/4	2 1/2	1 1/4														6.25
2S	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2M	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
3	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN W4-2

WISCONSIN DEPT OF TRANSPORTATION

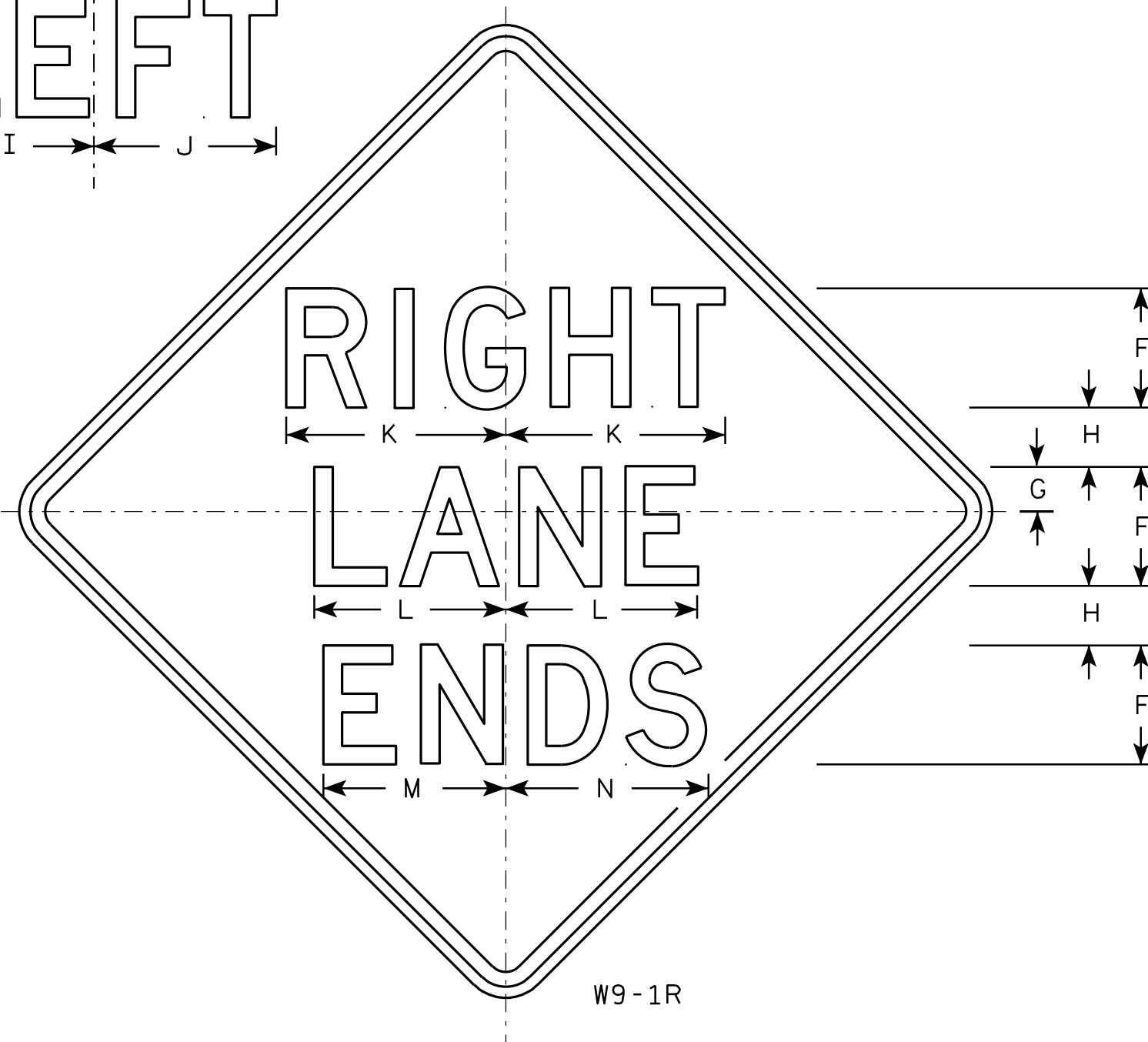
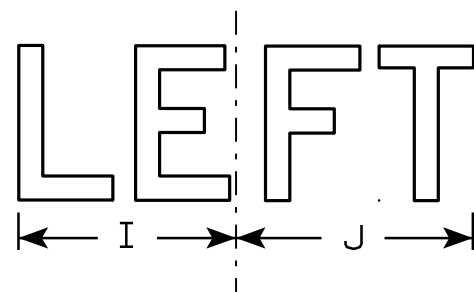
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/29/2012 PLATE NO. W4-2.13

PROJECT NO:

SHEET NO:

E



W9-1R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. W9-1L same as W9-1R except the word Left replaces Right.

7

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	30		1 ³ / ₈	1/2	⁵ / ₈	5	1 1/2	2 1/2	7 ¹ / ₈	7 ⁵ / ₈	9 1/4	8 ¹ / ₈	7 ⁵ / ₈	8 ⁵ / ₈													6.25
2S	36		1 ⁵ / ₈	⁵ / ₈	³ / ₄	6	2	3	8 1/2	9 1/8	11	9 ³ / ₄	9	10 ³ / ₈													9.0
2M	36		1 ⁵ / ₈	⁵ / ₈	³ / ₄	6	2	3	8 1/2	9 1/8	11	9 ³ / ₄	9	10 ³ / ₈													9.0
3	36		1 ⁵ / ₈	⁵ / ₈	³ / ₄	6	2	3	8 1/2	9 1/8	11	9 ³ / ₄	9	10 ³ / ₈													9.0
4	36		1 ⁵ / ₈	⁵ / ₈	³ / ₄	6	2	3	8 1/2	9 1/8	11	9 ³ / ₄	9	10 ³ / ₈													9.0
5	48		2 1/4	³ / ₄	1	8	3	4	11 1/4	12 1/4	14 ³ / ₄	12 ⁷ / ₈	12 1/4	13 ⁵ / ₈													16.0

PROJECT NO:

SHEET NO:

E

STANDARD SIGN

W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
for State Traffic Engineer

DATE 12/20/10

PLATE NO. W9-1.7

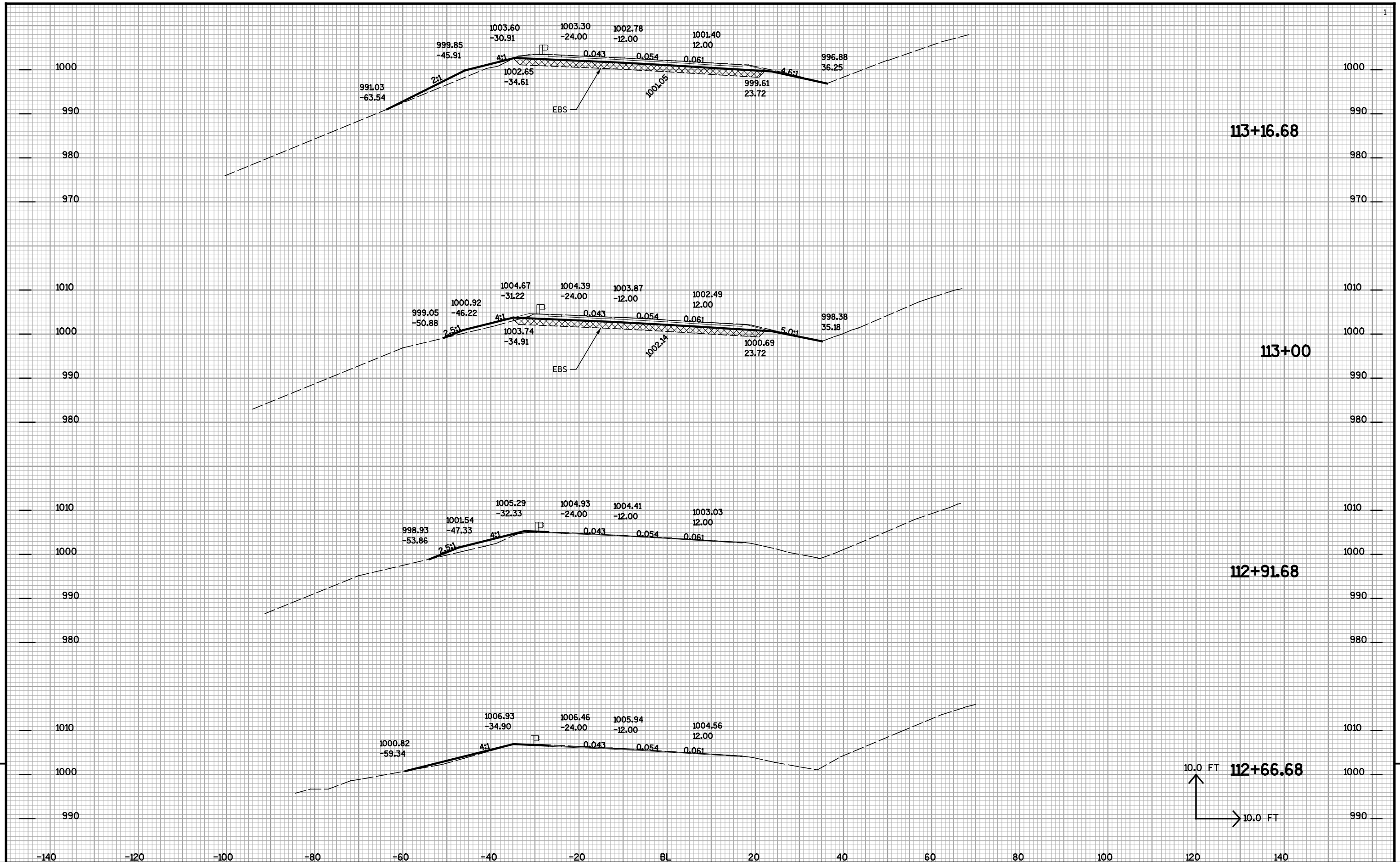
I.D. 5255-01-60
STH 23
IOWA COUNTY

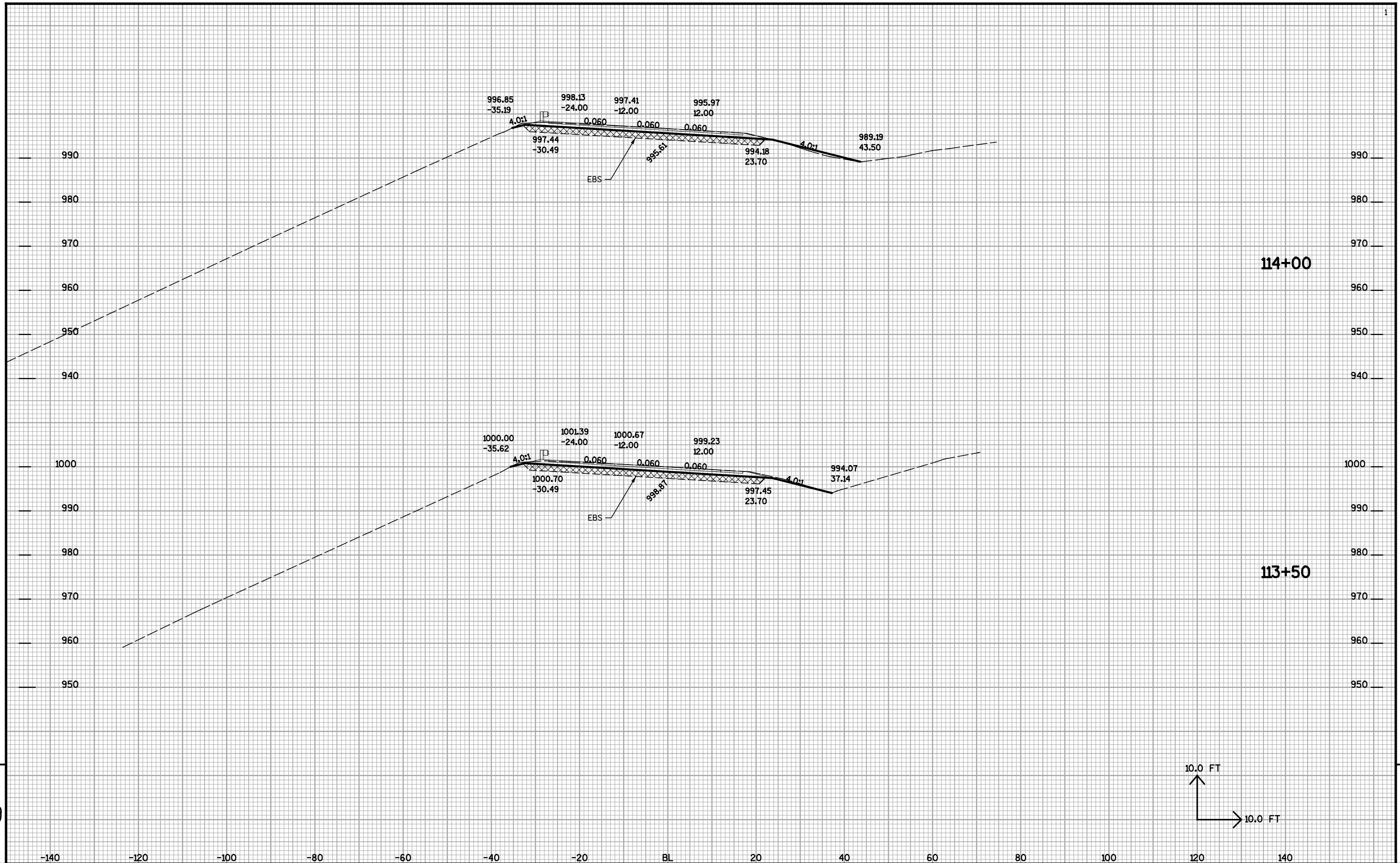
7-Aug-12

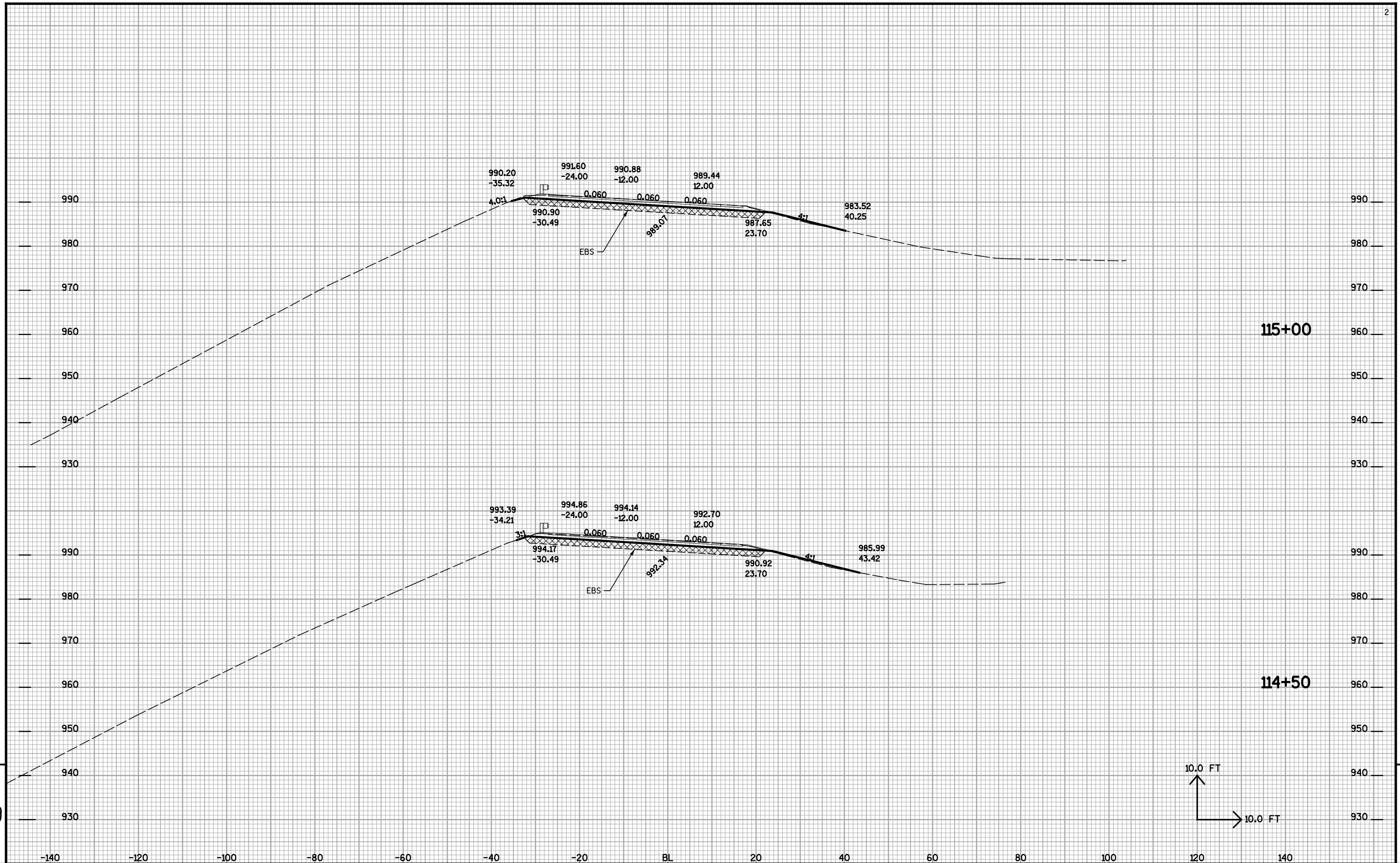
STH 175 - RICHFIELD							
COMMON CUT				FILL			
				FILL FACTOR = 1.20			
STATION	DISTANCE FEET	END AREA S.F.	VOL C.Y.	FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
113+00		138.3		0.1			
	50.00		257		0	0	257
113+50		139.2		0.0			
	50.00		252		6	7	502
114+00		132.5		6.2			
	50.00		240		11	13	728
114+50		126.4		5.5			
	50.00		242		8	10	961
115+00		135.5		3.6			
	50.00		247		3	4	1204
115+50		131.7		0.0			
	50.00		245		0	0	1449
116+00		133.2		0.0			
	50.00		255		0	0	1705
116+50		142.6		0.0			
	50.00		255		0	0	1960
117+00		132.8		0.0			
	50.00		241		1	1	2199
117+50		127.0		1.3			
	50.00		244		1	1	2441
118+00		136.7		0.0			
	50.00		257		0	0	2698
118+50		140.3		0.0			
	50.00		257		0	0	2955
119+00		137.7		0.0			
	50.00		250		0	0	3205
119+50		132.6		0.0			
	50.00		252		0	0	3458
120+00		140.1		0.0			
	50.00		255		0	1	3712
120+50		135.1		0.5			
	50.00		265		0	1	3976
121+00		151.1		0.0			
	50.00		268		1	1	4244
121+50		138.7		0.9			
	50.00		262		1	1	4505
122+00		144.8		0.0			
	50.00		271		0	0	4776
122+50		147.9		0.0			
	50.00		272		0	0	5048
123+00		145.6		0.0			
	50.00		269		0	0	5317
123+50		145.4		0.0			
	50.00		277		0	0	5594
124+00		154.1		0.0			
	50.00		283		0	0	5878
124+50		151.9		0.0			
	50.00		283		0	0	6160
125+00		153.4		0.0			
	50.00		281		0	0	6442
125+50		150.4		0.0			
	50.00		276		0	0	6718
126+00		147.7		0.0			
	50.00		273		0	0	6991
126+50		147.5		0.0			
	50.00		276		0	0	7267
127+00		150.1		0.0			

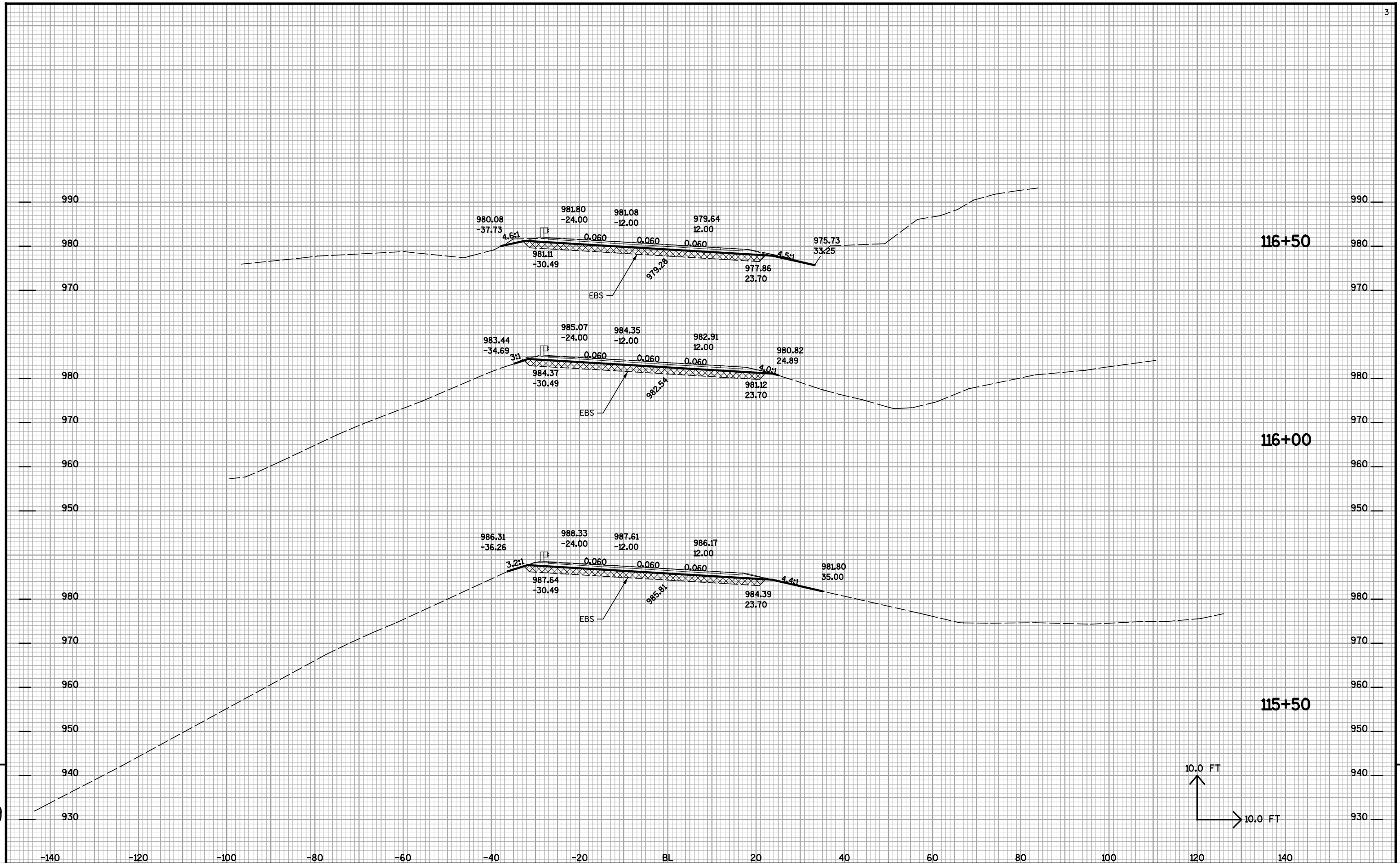
COMMON CUT				FILL			
				FILL FACTOR = 1.20			
STATION	DISTANCE FEET	END AREA S.F.	VOL C.Y.	FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
127+00		150.1		0.0			
	50.00		277		0	0	7544
127+50		149.4		0.0			
	50.00		279		0	0	7823
128+00		151.8		0.0			
	50.00		280		0	0	8103
128+50		150.3		0.0			
	50.00		276		0	0	8379
129+00		148.1		0.0			
	50.00		273		0	0	8652
129+50		146.4		0.0			
	50.00		274		0	0	8926
130+00		150.0		0.0			
	50.00		284		0	0	9210
130+50		157.0		0.0			
	50.00		299		0	0	9509
131+00		165.8		0.0			
	50.00		294		0	0	9803
131+50		151.4		0.0			
	50.00		275		0	0	10078
132+00		146.1		0.0			
	50.00		268		0	0	10346
132+50		143.2		0.0			
	50.00		262		0	0	10608
133+00		139.5		0.0			
	50.00		247		2	2	10853
133+50		127.7		1.9			
	50.00		233		4	5	11081
134+00		124.4		2.5			
	50.00		224		5	6	11300
134+50		117.7		2.5			
	50.00		219		5	6	11514
135+00		119.3		2.7			
	50.00		229		73	87	11655
135+50		128.2		76.0			
	50.00		233		73	87	11801
136+00		123.2		2.4			
	50.00		237		4	4	12034
136+50		133.2		1.5			
	50.00		257		6	7	12284
137+00		144.3		4.8			
	50.00		259		4	5	12538
137+50		135.8		0.0			
	50.00		262		0	0	12800
138+00		146.9		0.0			
	50.00		278		0	0	13078
138+50		153.0		0.0			
	50.00		275		0	0	13352
139+00		143.7		0.0			
	50.00		258		0	0	13611
139+50		135.5		0.0			
	50.00		258		0	0	13869
140+00		143.0		0.0			
	50.00		262		0	1	14130
140+50		139.9		0.5			
	50.00		250		2	2	14378
141+00		130.2		1.4			
	50.00		236		1	2	14612
141+50		124.6		0.0			
	50.00		232		0	0	14844
142+00		126.0		0.0			

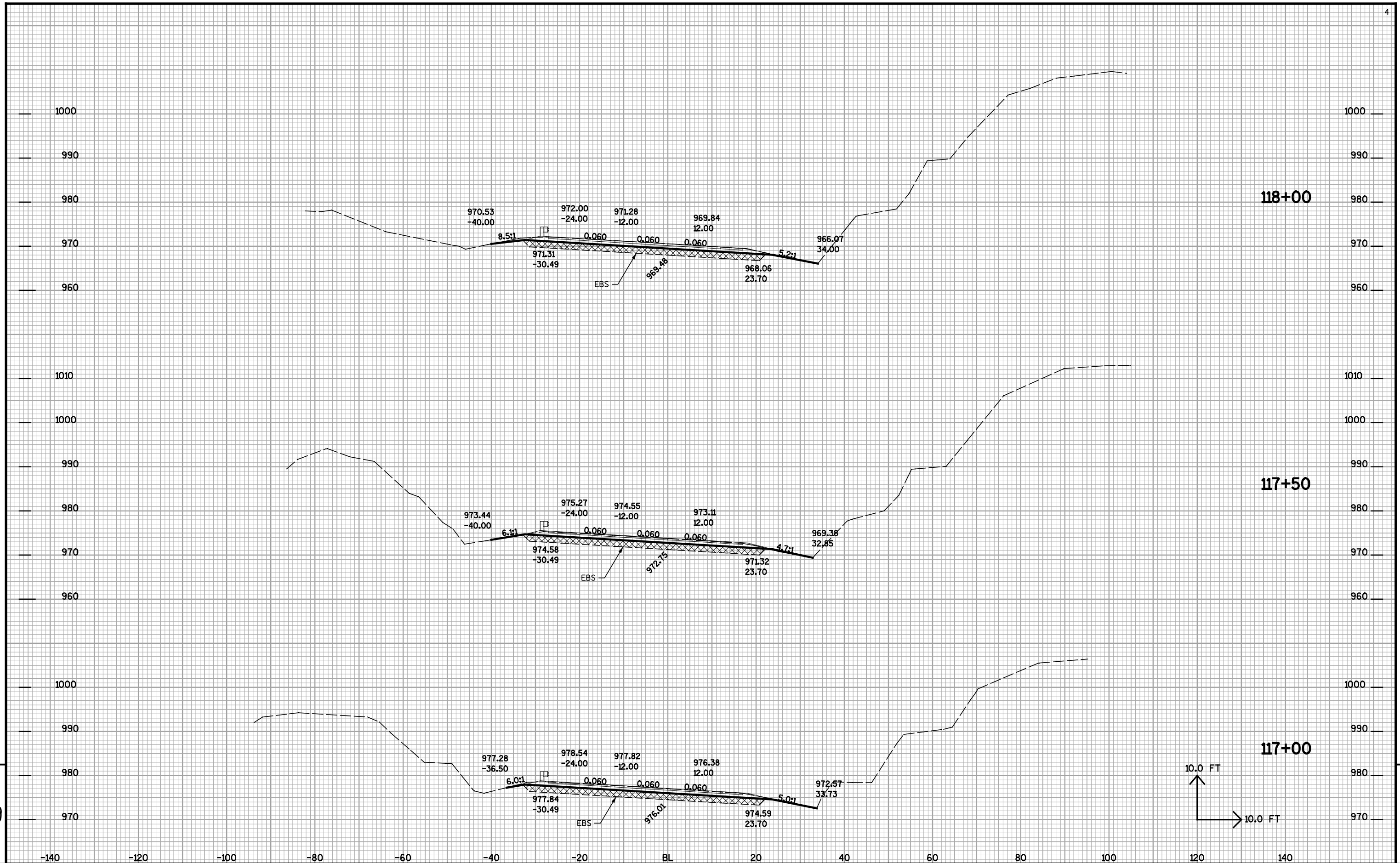
COMMON CUT				FILL			
				FILL FACTOR = 1.20			
STATION	DISTANCE FEET	END AREA S.F.	VOL C.Y.	FILL END AREA S.F.	FILL VOL C.Y.	ADJ. FILL C.Y.	MASS BALANCE
142+00		126.0		0.0			
	50.00		244			1	15087
142+50		130.0		1.7			
	50.00		250		2	2	15335
143+00		140.4		0.5			
	50.00		254		2	2	15587
143+50		133.7		1.2			
	50.00		255		2	2	15839
144+00		141.2		0.7			
	50.00		263		2	2	16100
144+50		142.3		1.3			
	50.00		259		2	3	16356
145+00		137.6		1.0			
	50.00		278		2	2	16632
145+50		162.5		0.7			
	50.00		201		1	1	16832
146+00		54.2		0.1			
				17101	224	271	

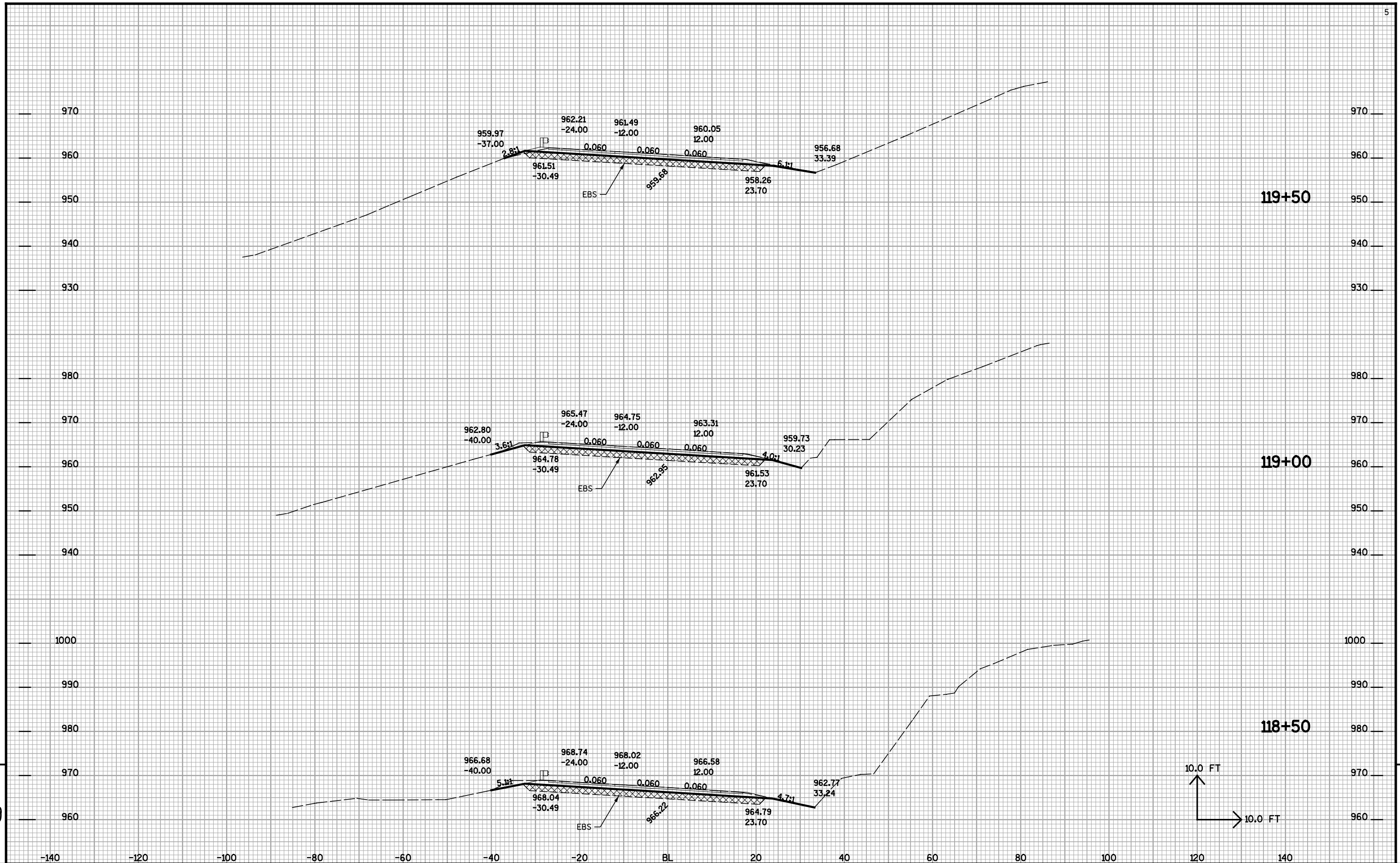


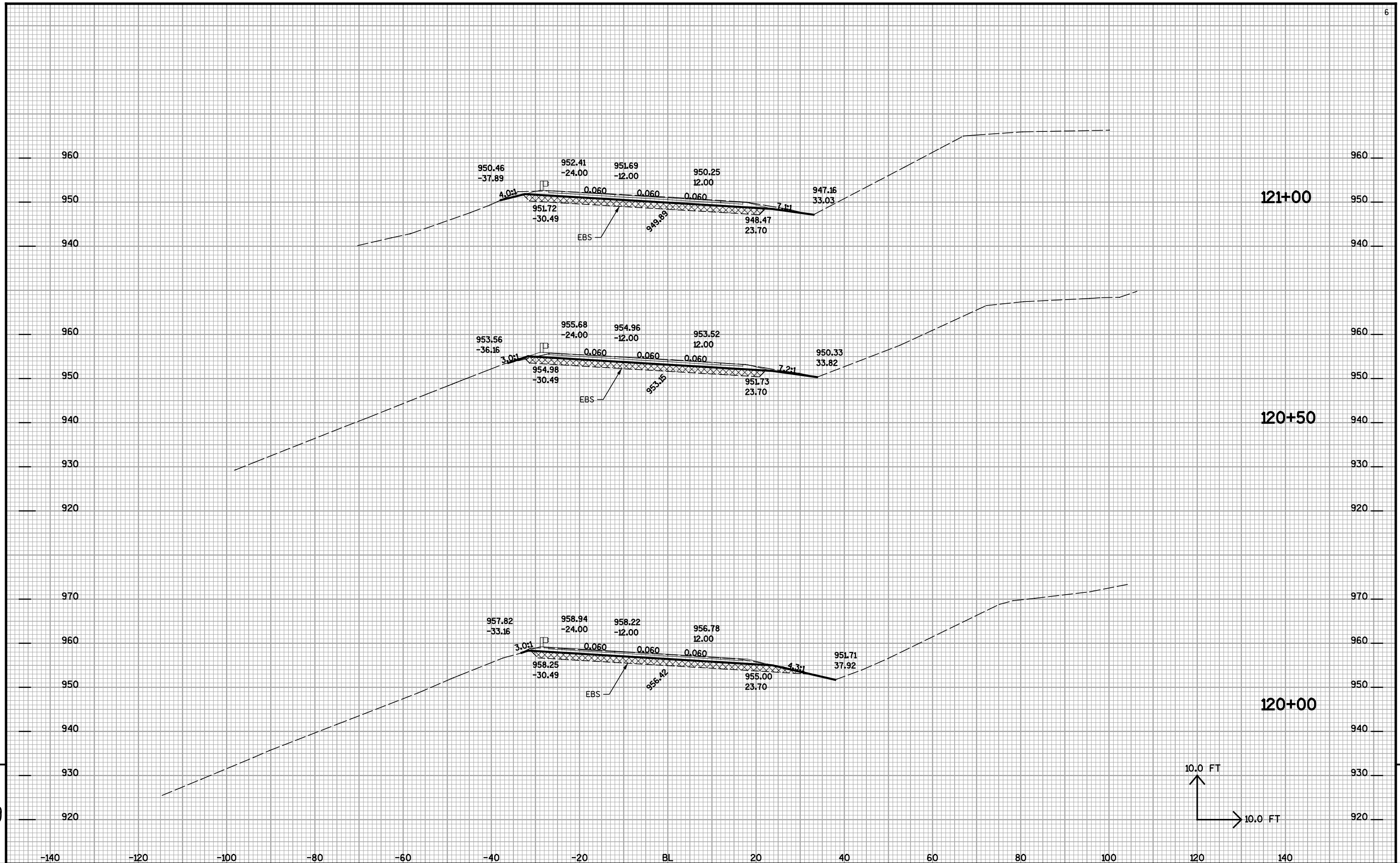


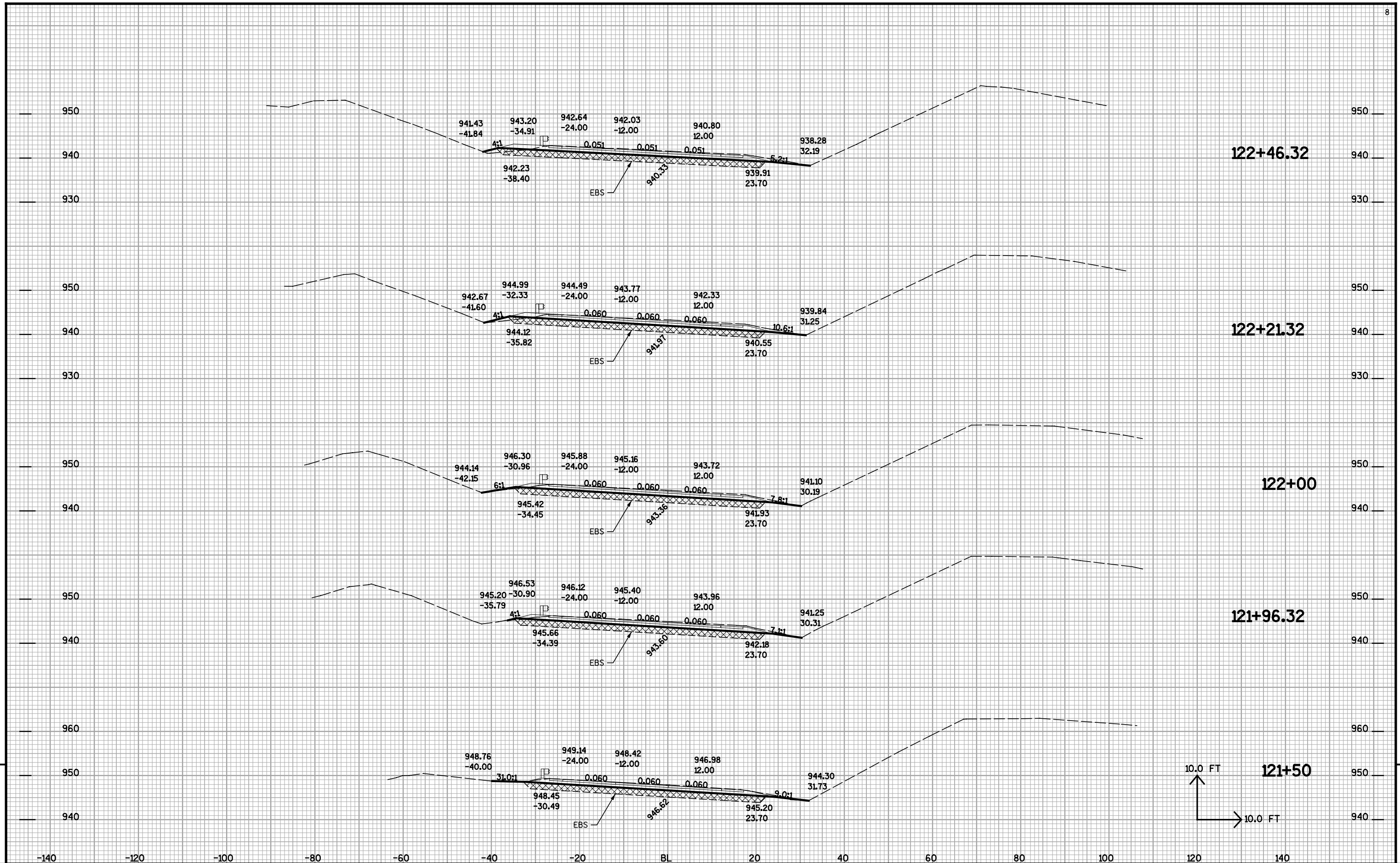


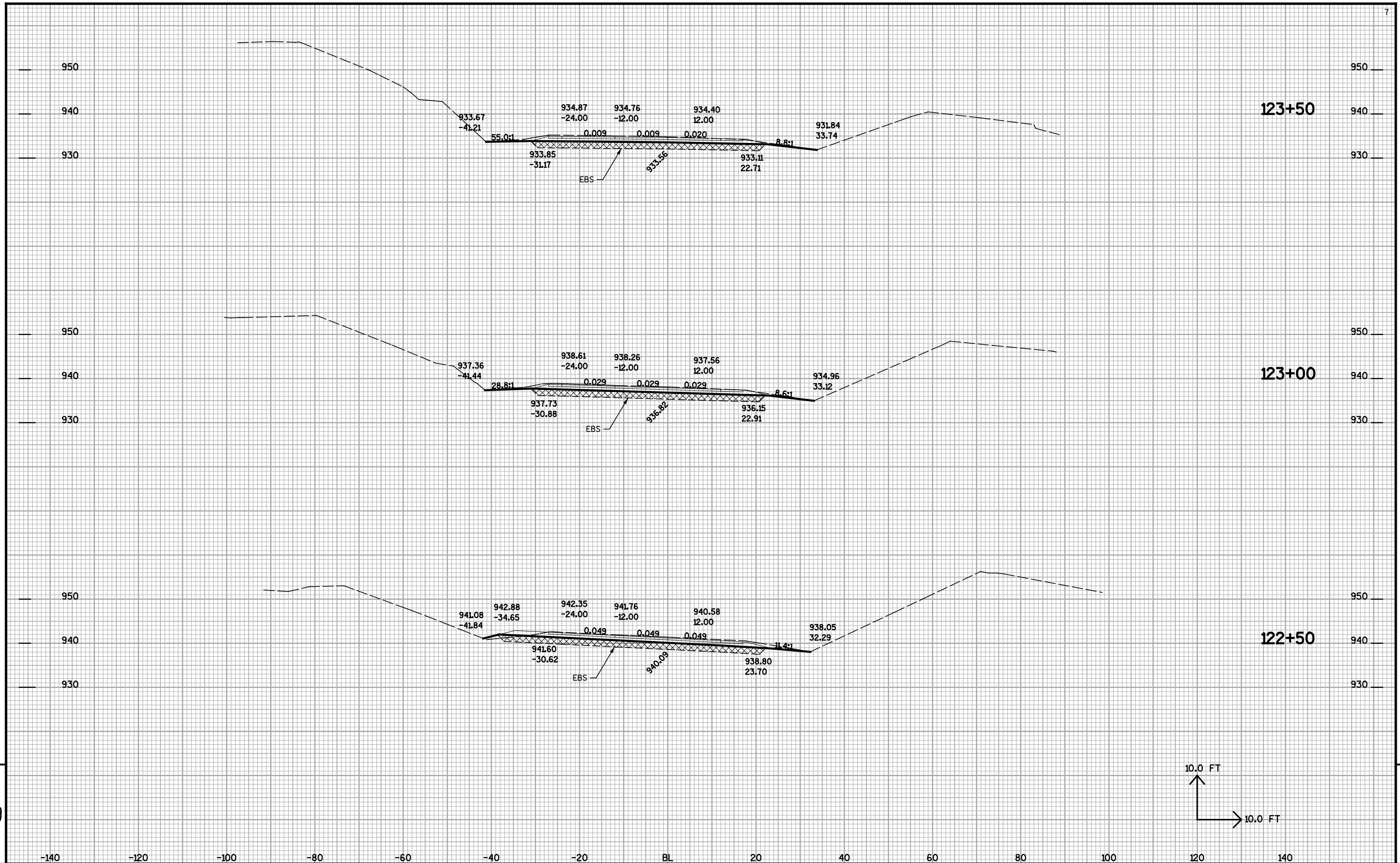


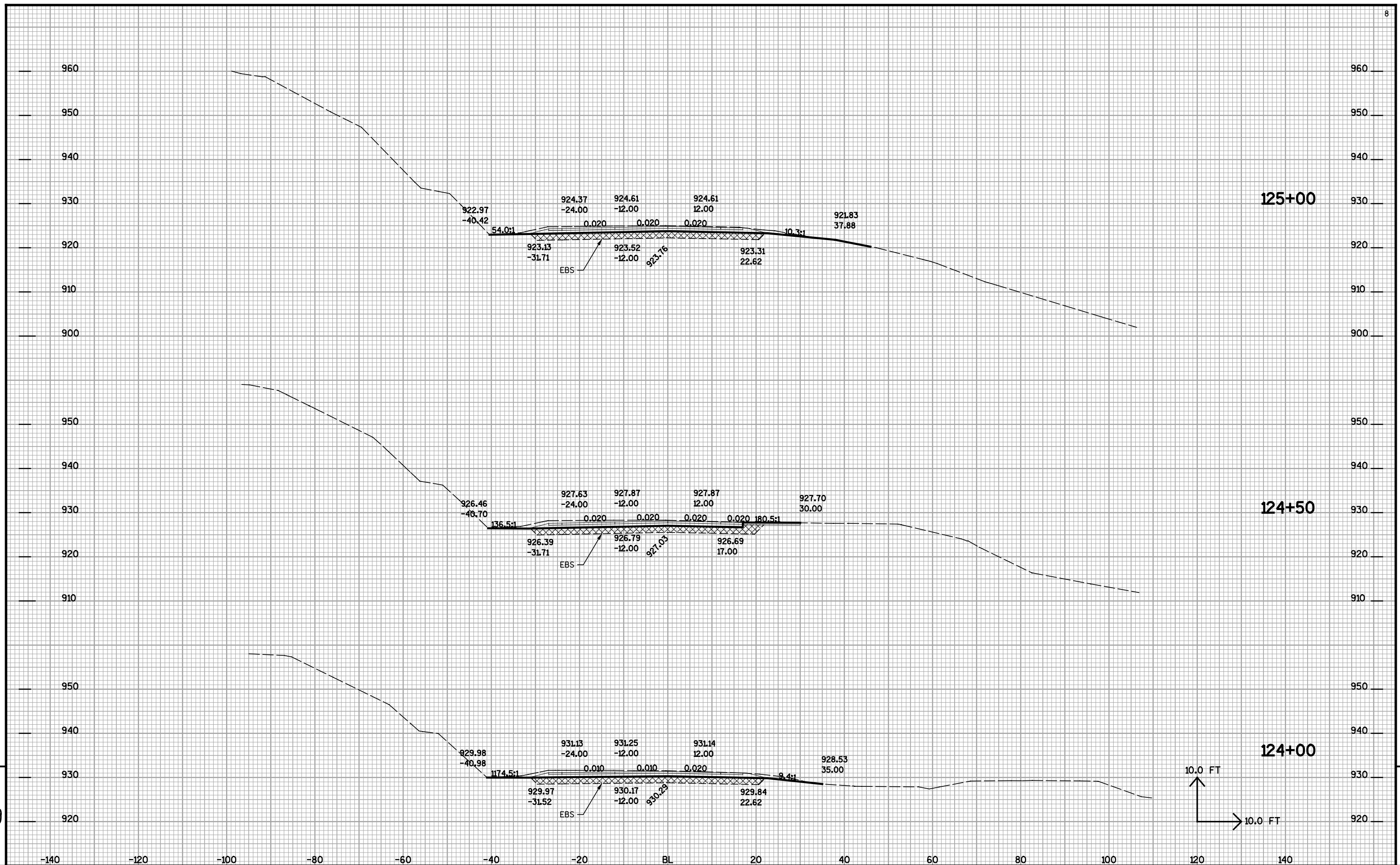


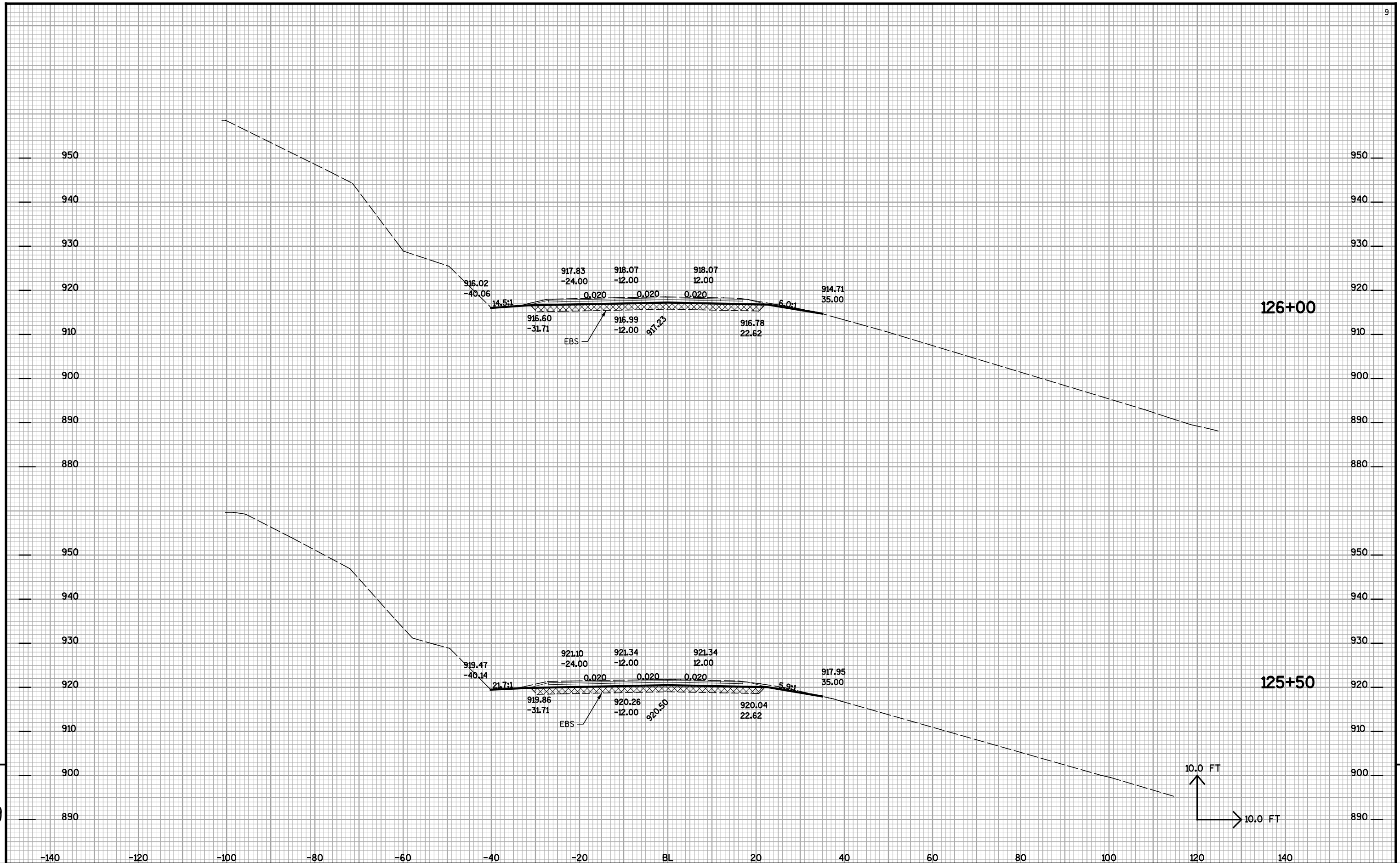


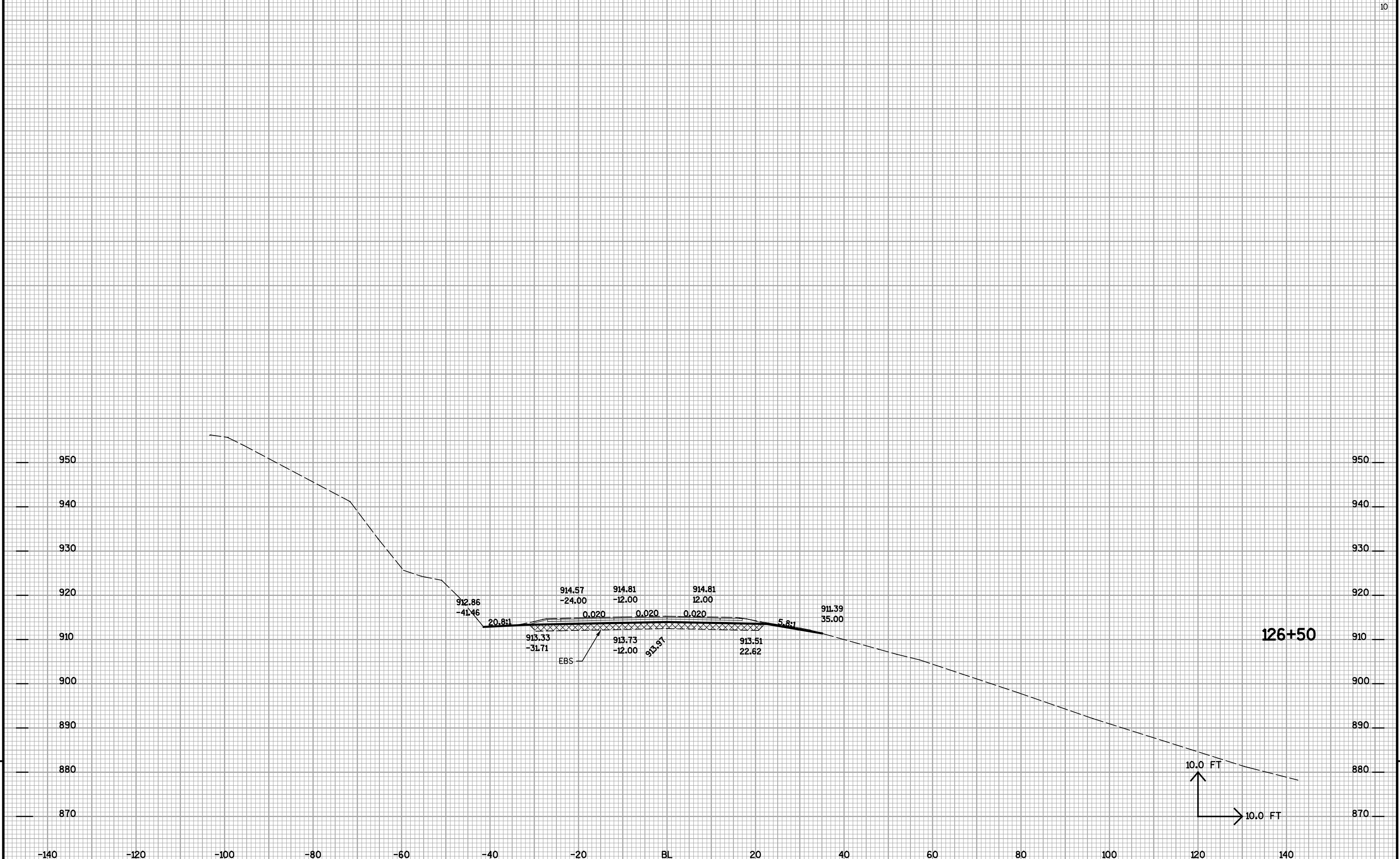






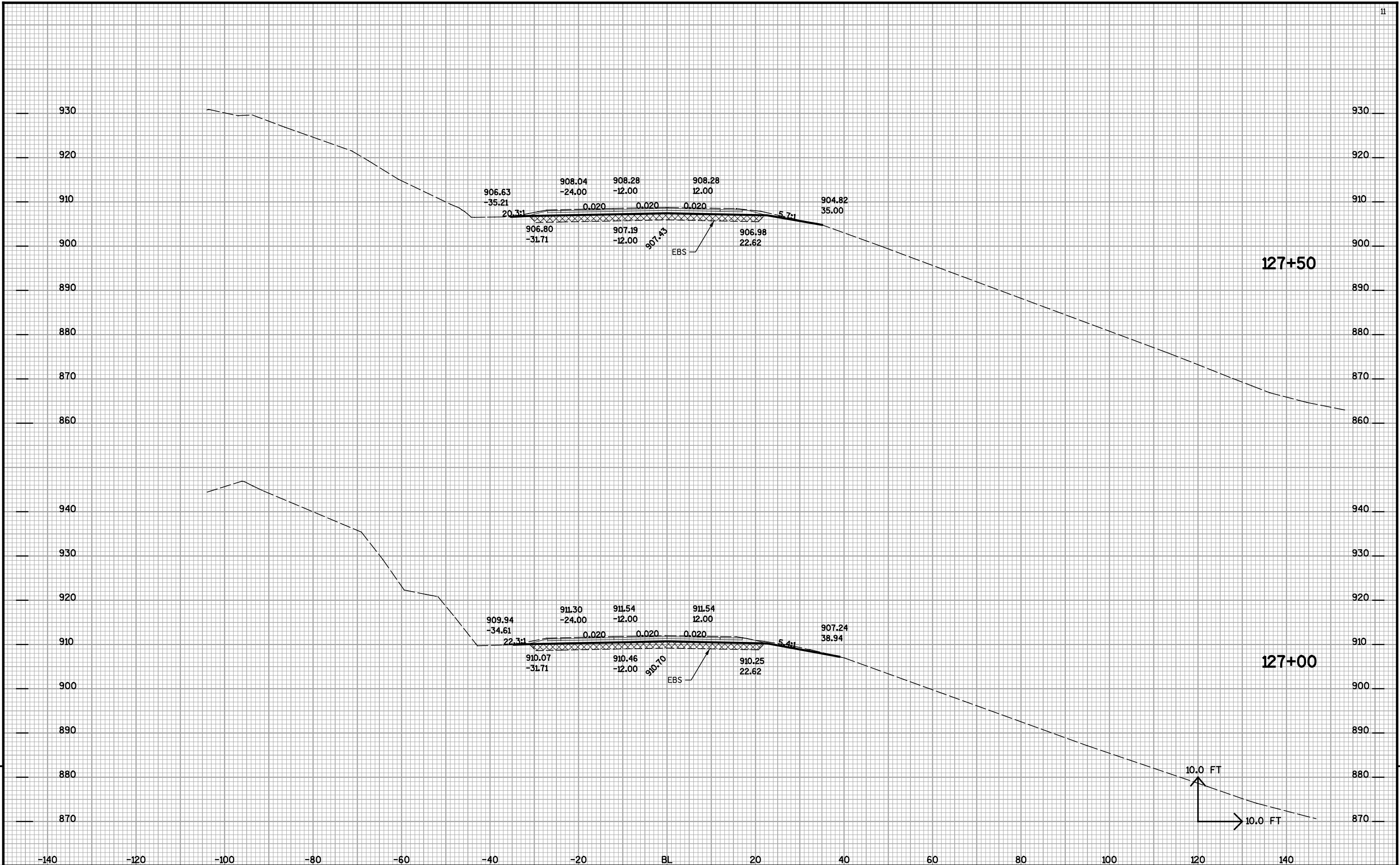


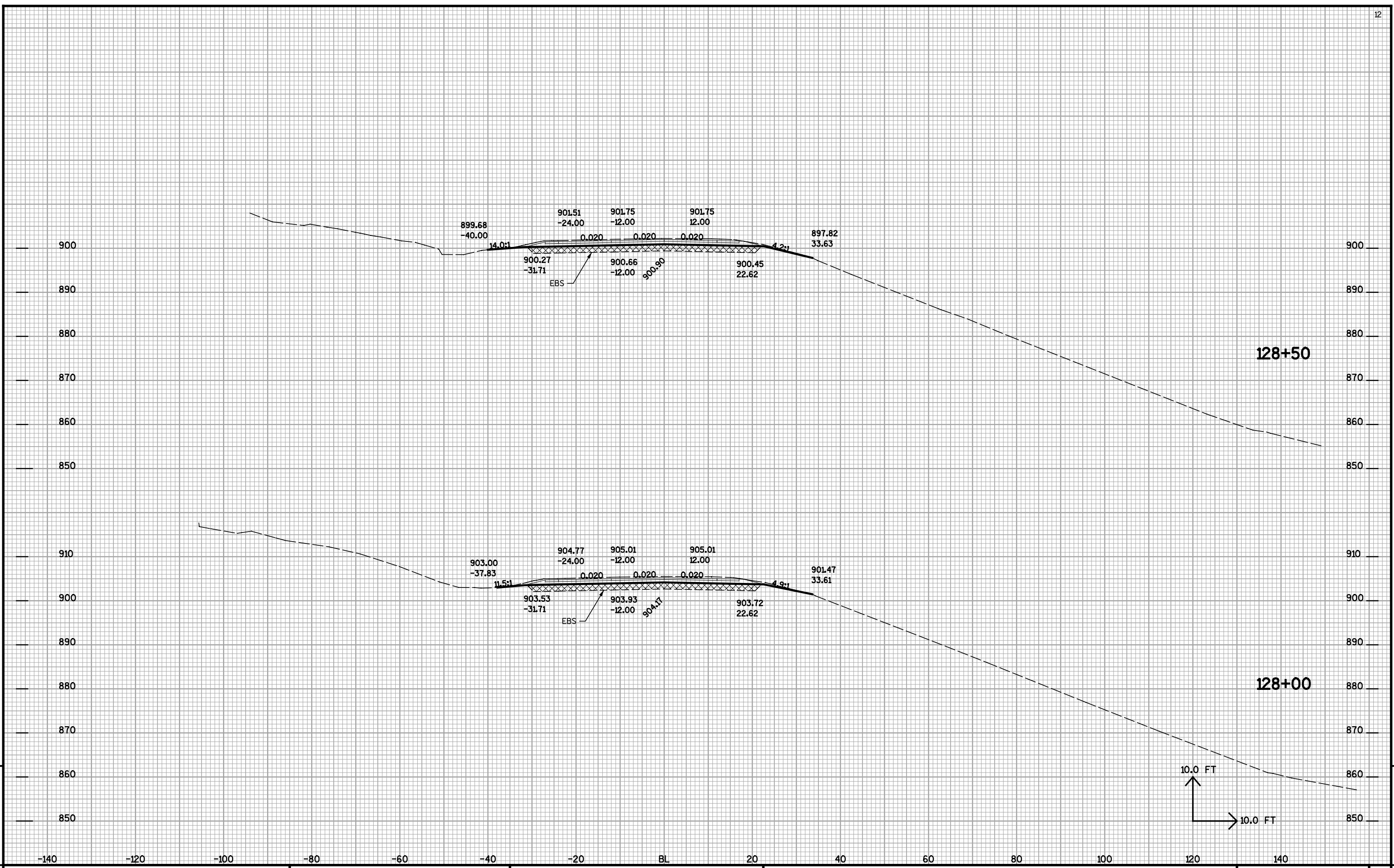




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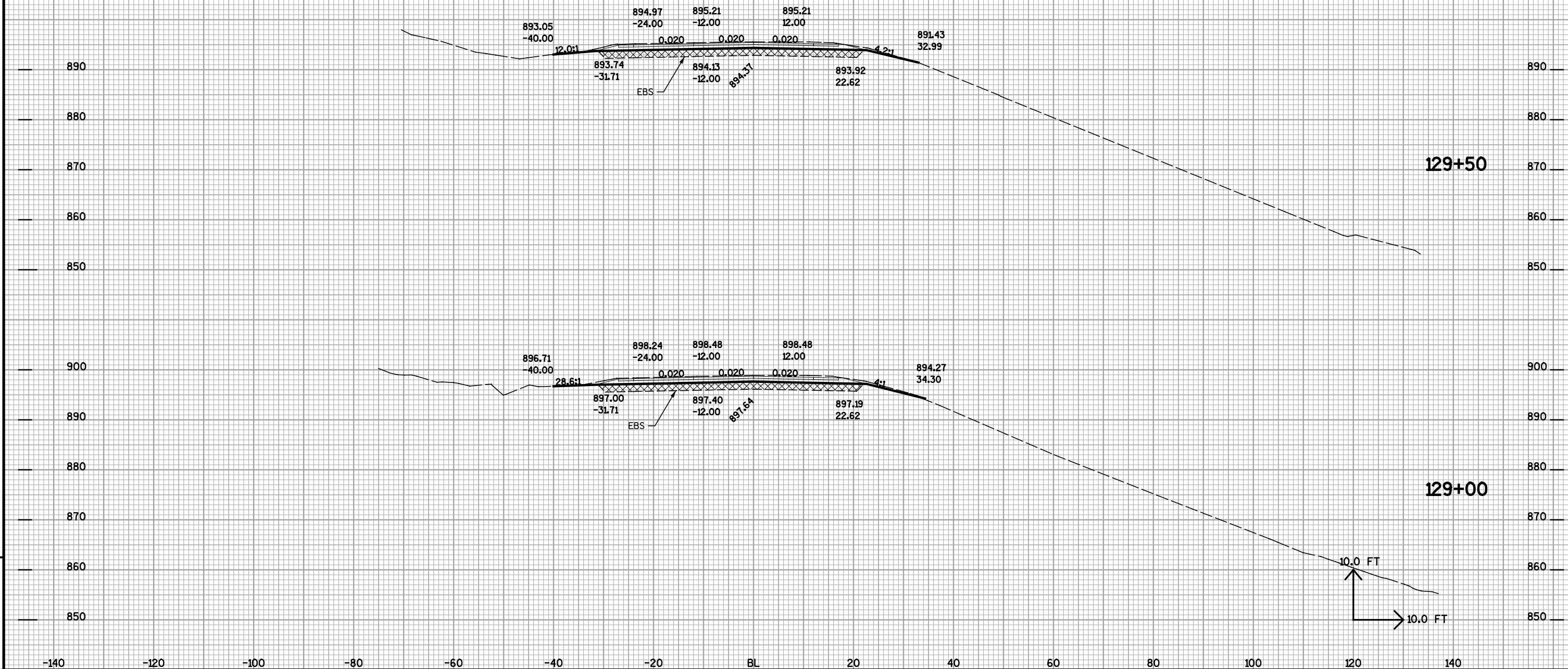
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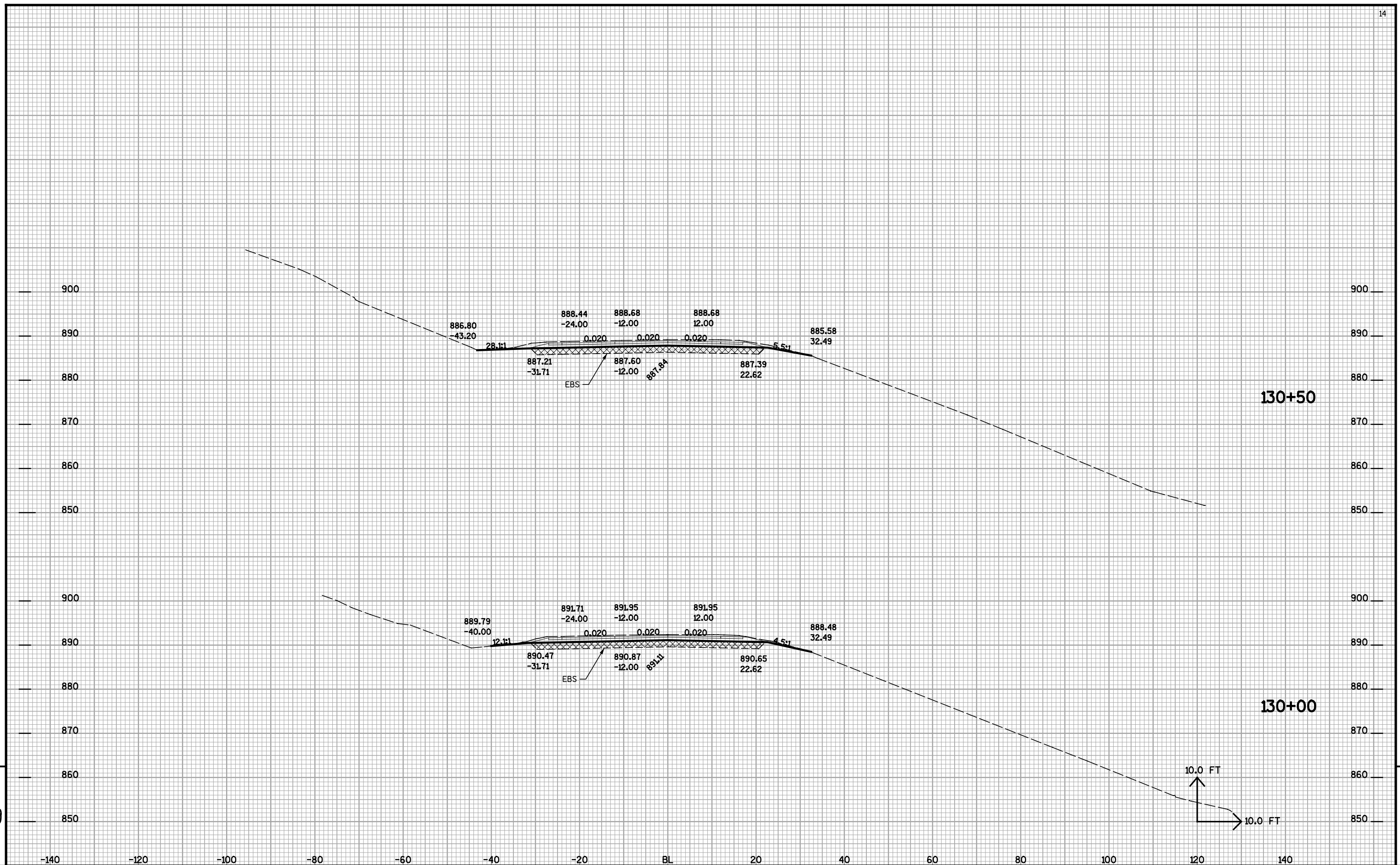




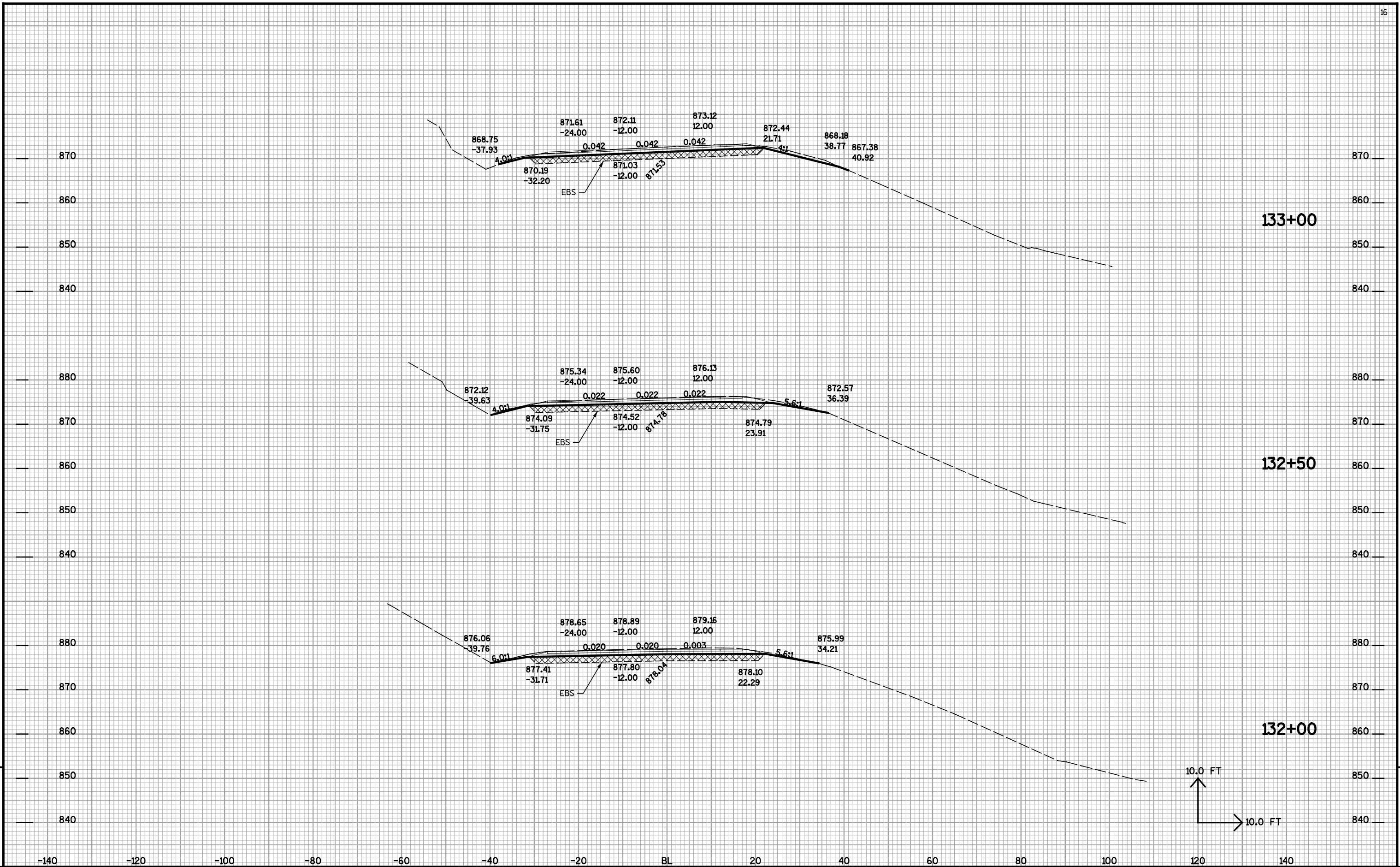
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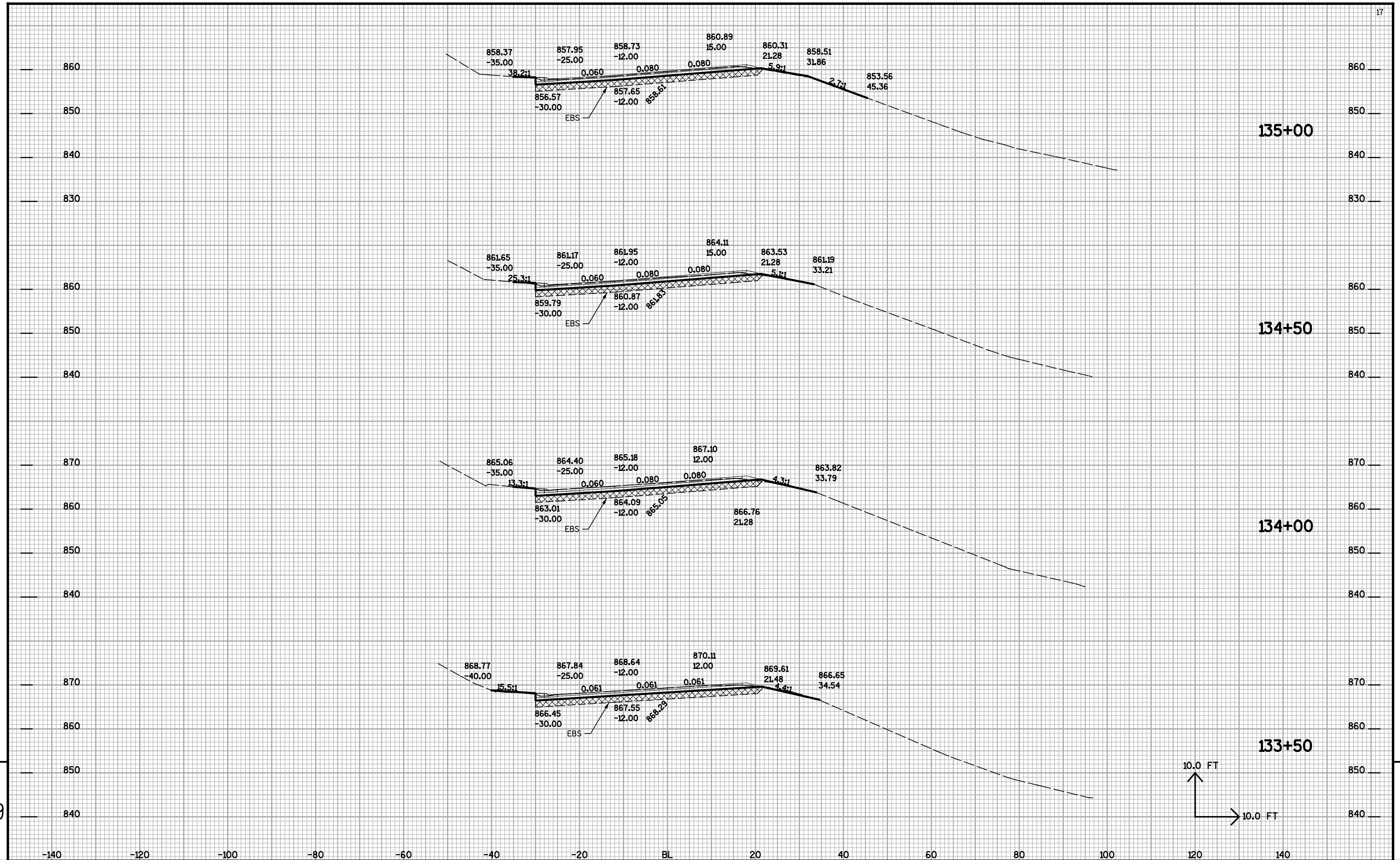
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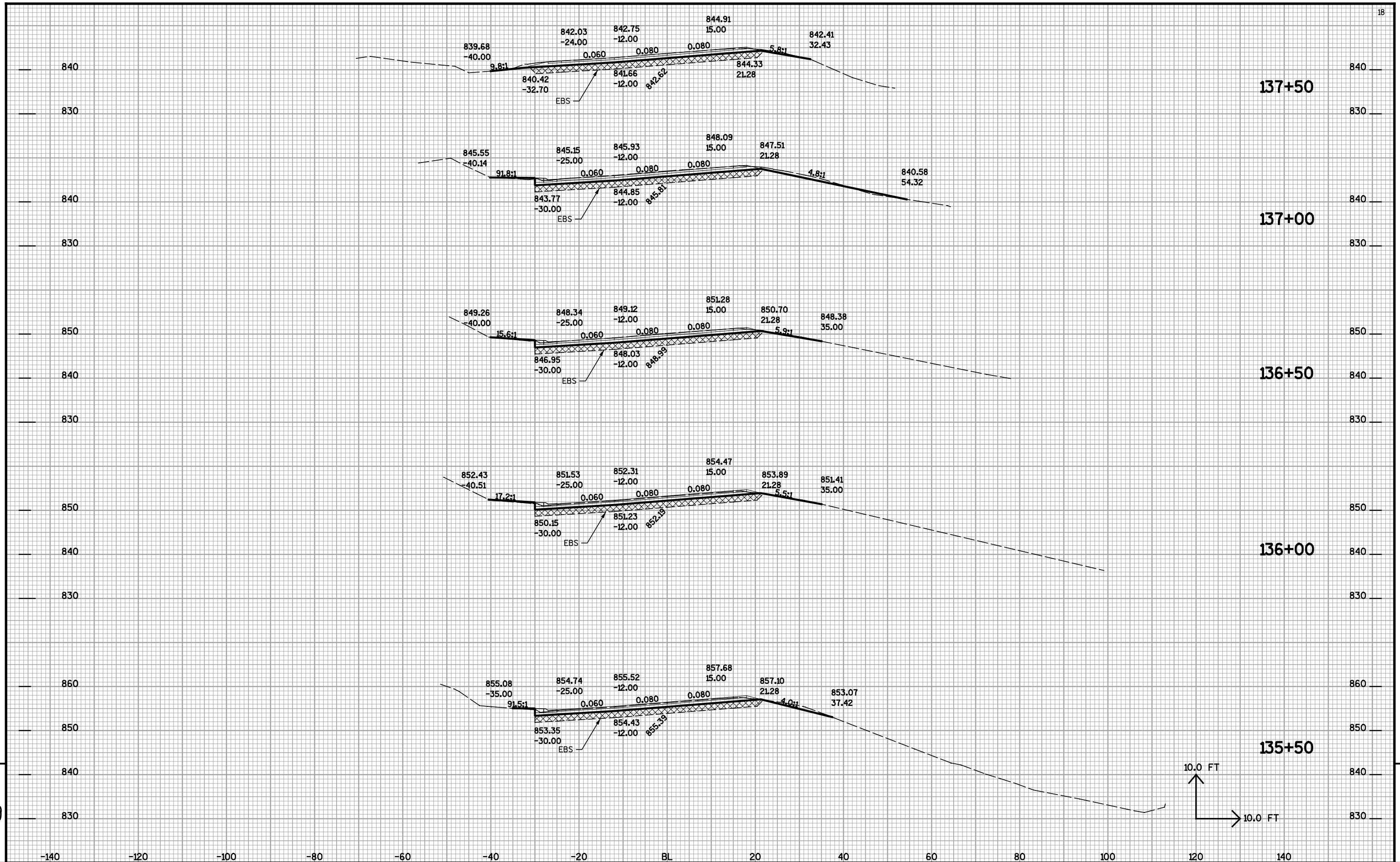


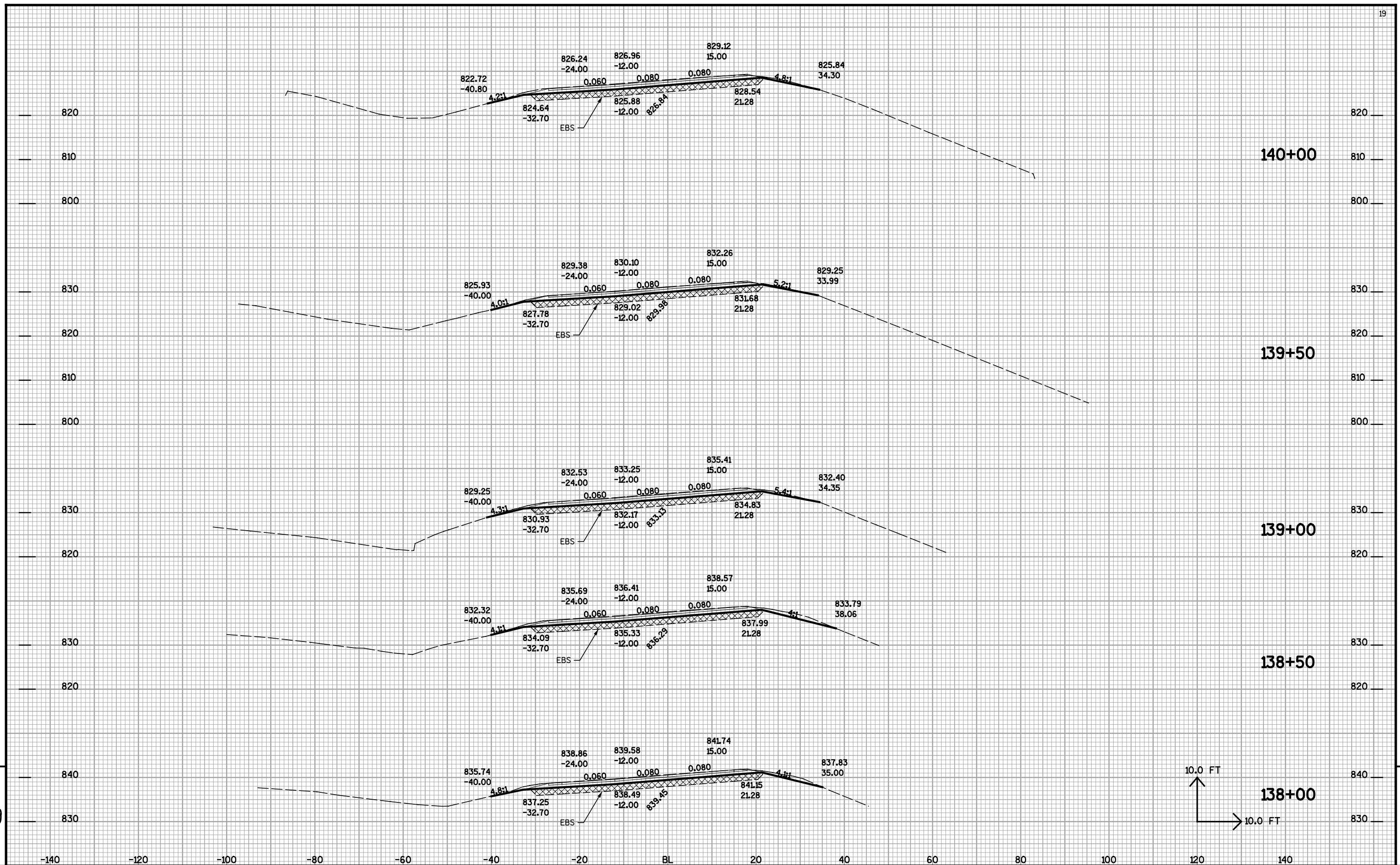


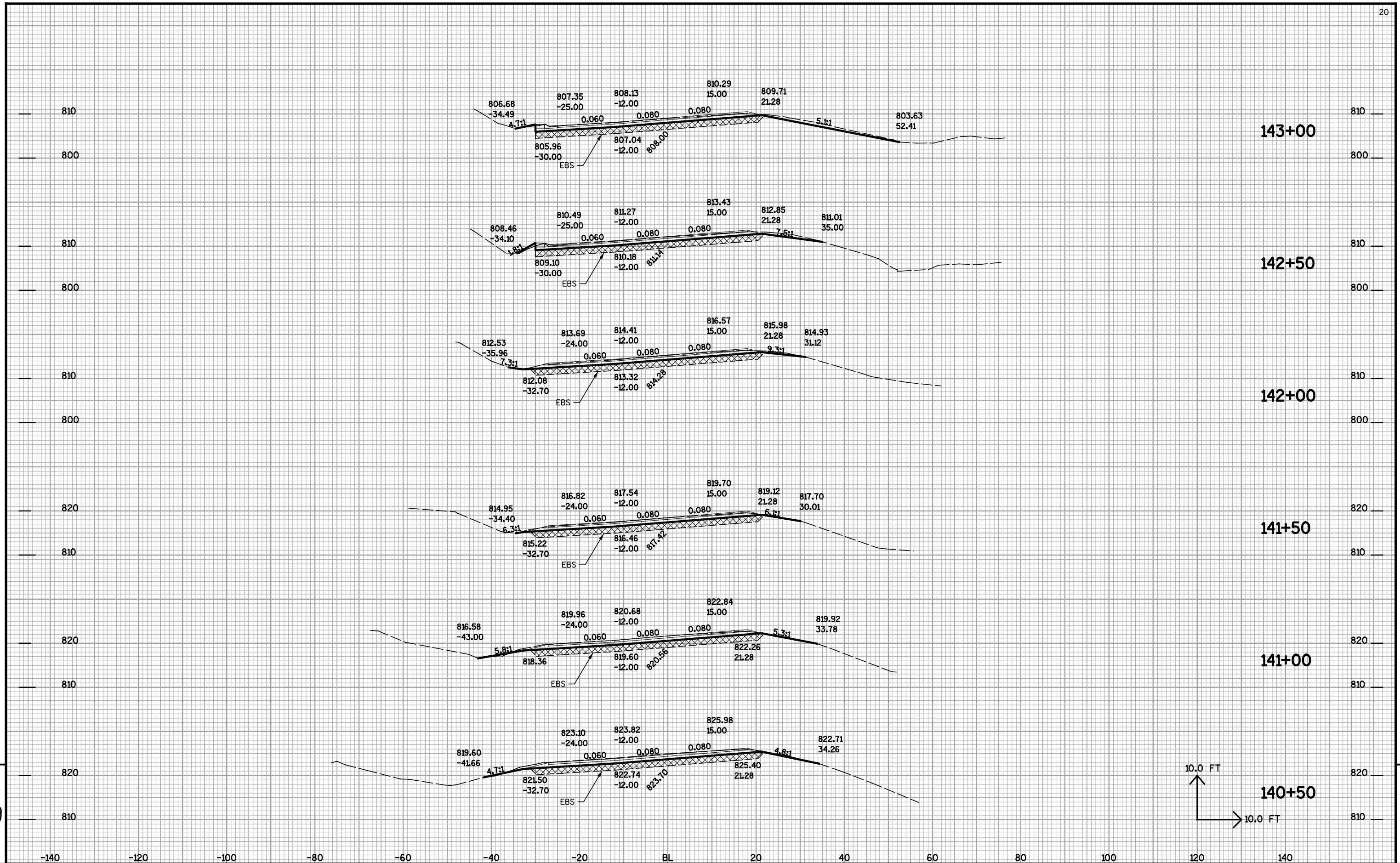


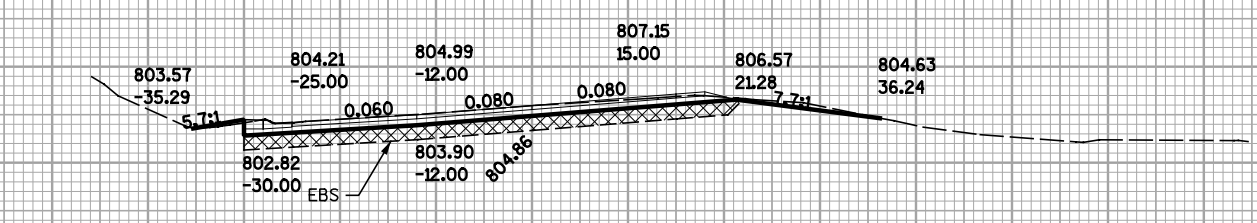
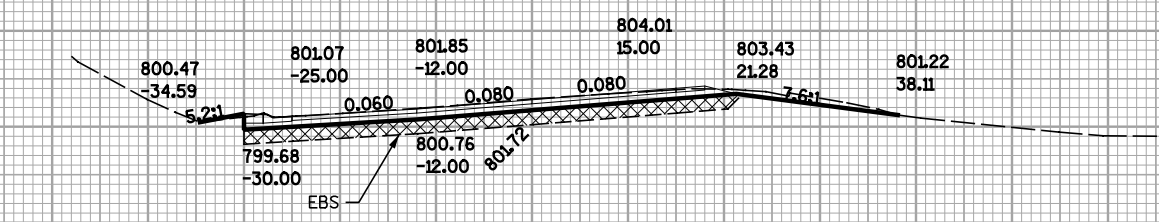
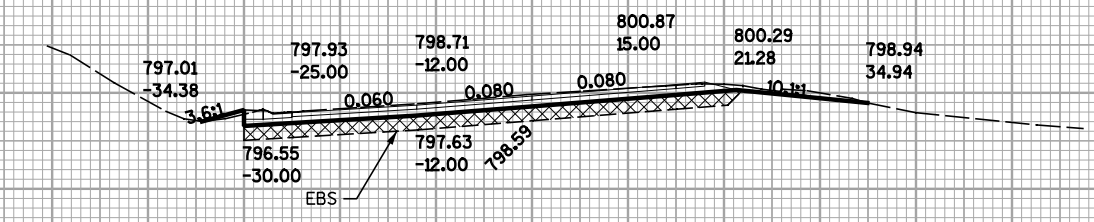
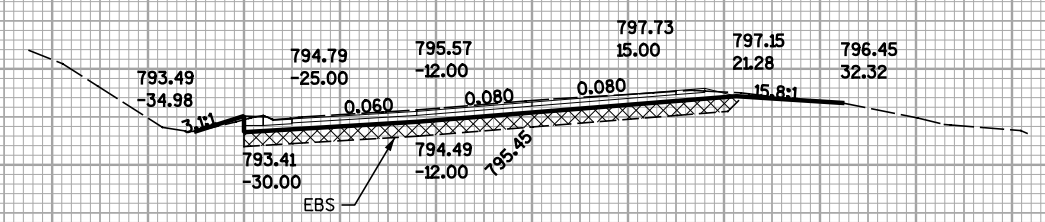
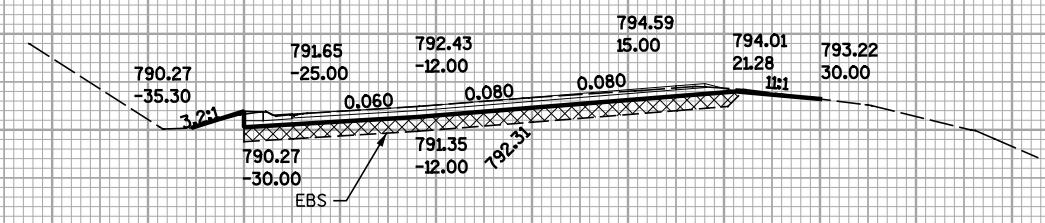








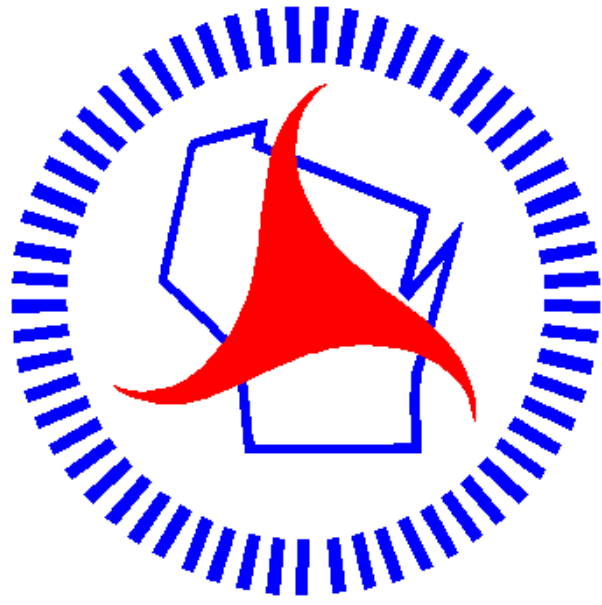




10.0 FT

10.0 FT

Notes



Wisconsin Department of Transportation

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through innovation and exceptional service.

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