LAX

JUNE 2017

PROJECT ID: 1650-02-60

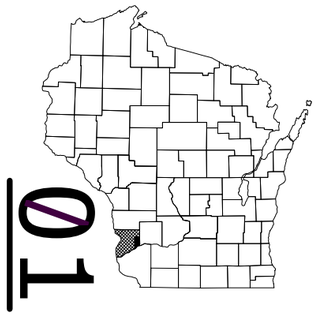
WITH: -

COUNTY: CRAWFORD

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
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 = 212



N

DESIGN DESIGNATION 1650-02-60

A.A.D.T.	2015	=	2400 - 3600
A.A.D.T.	2035	=	2800 - 4400
D.H.V.		=	546
D.D.		=	60 / 40
T.		=	14.5%
DESIGN SPEED		=	55 MPH
ESALS		=	963,000 - 1,832,300

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

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

UTILITIES

- ELECTRIC (E)
- 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

BOSCOBEL - READSTOWN

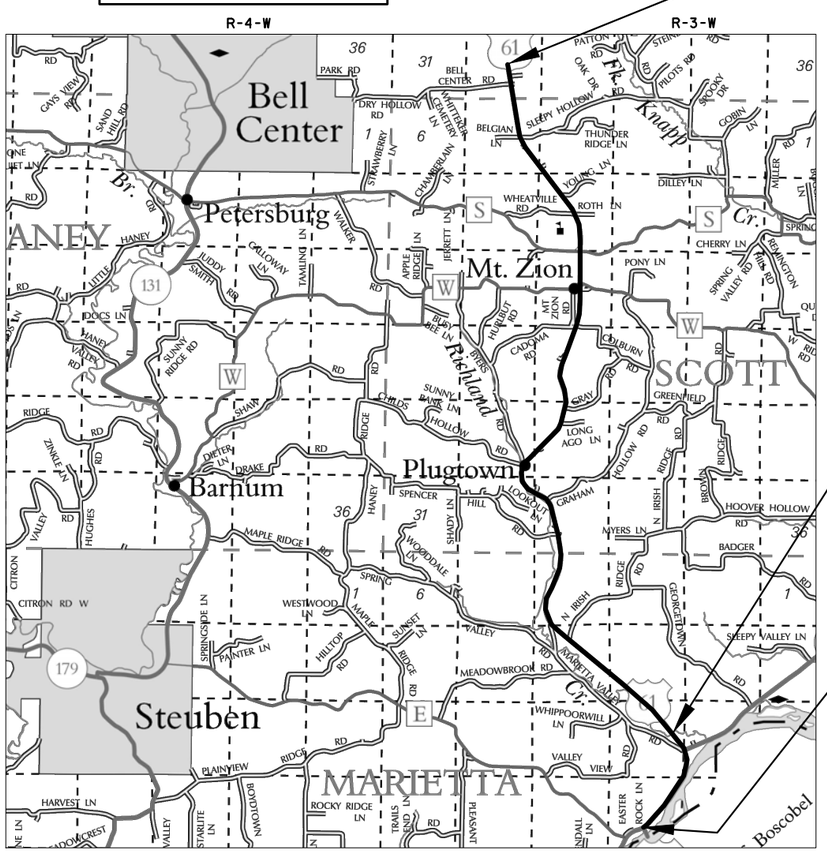
STH 60 TO BELL CENTER ROAD

USH 61

CRAWFORD COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1650-02-60	WISC 2017313	1

STATE PROJECT NUMBER
1650-02-60



END PROJECT
1650-02-60
STA 612+50
X = 422489.850
Y = 211102.485

B-12-0019
STA 79+50

BEGIN PROJECT
1650-02-60
STA 0+00
X = 432337.887
Y = 159157.970

LAYOUT

SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 11.600 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, CRAWFORD COUNTY, NAD83 (2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCESD TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) 1988 ADJUSTMENT 2007.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	WisDOT
Designer	JONATHAN DAVIDSON
Project Manager	TIM MAEDKE
Regional Examiner	REGIONAL EXAMINER
Regional Supervisor	REINY YAHNKE

APPROVED FOR THE DEPARTMENT

DATE: 1/23/17 (Signature)

E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\010101-TI.DWG PLOT DATE : 1/23/2017 8:18 AM PLOT BY : DAVIDSON, JONATHAN B PLOT NAME :

GENERAL NOTES

- THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
- THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH THE EXISTING UTILITY FACILITIES.
- RIGHT OF WAY LINES SHOWN ON THE CROSS SECTIONS ARE APPROXIMATE.
- ALL RADII ARE MEASURED TO EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN OR NOTED ON THE PLAN.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES EXCEPT WHEN PIPE LAYING OPERATIONS REQUIRE THE DRIVEWAY TO BE CLOSED. ACCESS TO DRIVEWAY SHALL BE RE-ESTABLISHED IMMEDIATELY AFTER PIPE IN DRIVEWAY AREA IS INSTALLED. ACCESS SHALL BE PROVIDED DURING ALL NON-WORKING HOURS.
- PRIOR TO THE PLACEMENT OF STEEL PLATE BEAM GUARD OR MGS GUARDRAIL, THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED UNLESS SHOWN OTHERWISE.
- 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, BIKE OR PARKING LANE.
- HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.
- "4" INCH HMA PAVEMENT TYPE "4 LT 58-28 S", SHALL BE CONSTRUCTED WITH "1.75" INCH UPPER LAYER AND "2.25" INCH LOWER LAYER.
- CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.
- (SALVAGED) TOPSOIL SHALL BE PLACED 1 INCH BELOW THE TOP OF ADJACENT CONCRETE CURBS OR SIDEWALKS.
- THE QUANTITY OF THE ITEMS FOR EROSION PROTECTION INCLUDES AN UNDISTRIBUTED AMOUNT FOR PROTECTION, CONTROL AND ABATEMENT OF WATER POLLUTION RESULTING FROM SOIL EROSION. THE DISTRIBUTION AND LOCATION OF THESE MATERIALS ARE TO BE DETERMINED BY THE ENGINEER.
- DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED (SALVAGED), FERTILIZED, SEEDED, AND MULCHED OR SODDED AS DIRECTED BY THE ENGINEER.
- (SALVAGED) TOPSOIL AND MULCH HAS BEEN COMPUTED BY DIRECT MEASUREMENTS ON THE CROSS SECTIONS PLUS 5 FT BEYOND THE TOE OF SLOPE. SEEDING AND FERTILIZER HAS BEEN COMPUTED BY DIRECT MEASUREMENTS ON THE CROSS SECTIONS PLUS 10 FT.
- CONSIDER DIMENSIONS GIVEN FOR EXISTING FEATURES AS APPROXIMATE AND MEASURE FEATURES IN THE FIELD FOR MATCHING PURPOSES.
- 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.
- WETLANDS, WATERWAYS, ARCHAEOLOGICAL SITES AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIALS NEAR SITES UNLESS APPROVED BY THE ENGINEER.

STANDARD ABBREVIATIONS

AC	ACRE
AGG	AGGREGATE
<	ANGLE
AE, AEW	APRON ENDWALL
ASPH.	ASPHALTIC
A.D.T.	AVERAGE DAILY TRAFFIC
A.A.D.T.	ANNUAL AVERAGE DAILY TRAFFIC
B.F.	BACK FACE
BM	BENCHMARK
BTWN	BETWEEN
CTR.	CENTER
C/L	CENTER LINE
Δ	CENTRAL ANGLE OR DELTA
C.E.	COMMERCIAL ENTRANCE
CONST.	CONSTRUCTION
CMCP	CORRUGATED METAL CULVERT PIPE
CMP	CORRUGATED METAL PIPE
CO.	COUNTY
CTH	COUNTY TRUNK HIGHWAY
CR.	CREEK
CABC	CRUSHED AGGREGATE BASE COURSE
CY	CUBIC YARD
CP	CONTROL POINT OR CULVERT PIPE
C&G	CURB AND GUTTER
D	DEGREE OF CURVE
D.H.V.	DESIGN HOURLY VOLUME
DIA.	DIAMETER
D.D.	DIRECTIONAL DISTRIBUTION
DISCH.	DISCHARGE
DMS	DYNAMIC MESSAGE SIGN
EA	EACH
E	EAST
EB	EASTBOUND
ELEC.	ELECTRIC(AL), ELEC. CABLE
EL., ELEV.	ELEVATION
ESALS	EQUIVALENT SINGLE AXLE LOADS
EXC.	EXCAVATION
EXIST	EXISTING
F.F.	FACE TO FACE
FERT.	FERTILIZER
F.E.	FIELD ENTRANCE
F/L, F.L.	FLOW LINE
GALV.	GALVANIZE
H.S.	HIGH STRENGTH
CWT	HUNDRED WEIGHT
INL	INLET
INTER.	INTERSECTION
IH	INTERSTATE HIGHWAY
JT.	JOINT
LT	LEFT
L.H.F.	LEFT HAND FORWARD
L.	LENGTH OF CURVE
L.F.	LINEAR FOOT(FEET)
LC.	LONG CHORD
LS	LUMP SUM
M.P.	MARKER POST
MGAL	1000 GALLONS
N.C.	NORMAL CROWN
N	NORTH
NB	NORTHBOUND
NOR	NORMAL
NO.	NUMBER
PAV'T	PAVEMENT
P.L.E.	PERMANENT LIMITED EASEMENT
P.C.	POINT OF CURVATURE
P.I.	POINT OF INTERSECTION
P.T.	POINT OF TANGENCY
PCC	PORTLAND CEMENT CONCRETE
P.E.	PRIVATE ENTRANCE
PGL	PROFILE GRADE LINE
P.L.	PROPERTY LINE
R	RADIUS OR RANGE
R/L	REFERENCE LINE
R.C.C.P.	REINFORCED CONCRETE CULVERT PIPE
REQ'D	REQUIRED
RT	RIGHT
R.H.F.	RIGHT HAND FORWARD
R/W	RIGHT OF WAY
RD.	ROAD
SHLD.	SHOULDER(S)
SHR.	SHRINKAGE
S	SOUTH
SB	SOUTHBOUND
S.F.	SQUARE FOOT (FEET)
SDD	STANDARD DETAIL DRAWING(S)
STH	STATE TRUNK HIGHWAY
STA.	STATION
S.E.	SUPERELEVATION
S/L	SURVEY LINE
SYM	SYMMETRICAL
T.	PERCENT TRUCKS
TEL.	TELEPHONE
TEMP.	TEMPORARY
T.L.E.	TEMPORARY LIMITED EASEMENT
T.O.C.	TOP OF CURB
TYP	TYPICAL
UNCL.	UNCLASSIFIED
U.G.	UNDERGROUND (CABLE)
VAR	VARIABLE
V.C.	VERTICAL CURVE
V.P.C.	VERTICAL POINT OF CURVATURE
V.P.I.	VERTICAL POINT OF INTERSECTION
V.P.T.	VERTICAL POINT OF TANGENCY
Wt.	WEIGHT
W	WEST
WB	WESTBOUND

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

UTILITY CONTACTS

Michael Reynolds
Boscobel Utilities - Electricity
1006 Wisconsin Ave
Boscobel, WI 53805
(608) 375-5030
mreynolds@wppisys.org

Steve Nelson
CenturyLink - Communication Line
333 N Front St
P.O. Box 4800
La Crosse, WI 54601
(608) 796-7033
steve.nelson@centurylink.com

Jane Eggen
Dairyland Power Cooperative - Electricity
3200 East Ave S
P.O. Box 817
La Crosse, WI 54602
(608) 787-1248
jme@dairynet.com

Tim Orcutt
Mediacom Wisconsin LLC - Communication Line
3033 Asbury Rd
Dubuque, IA 52001
(515) 249-5848
torcutt@mediacomllc.com

Andy Kilcoyne
Scenic Rivers Energy Cooperative - Electricity
231 N Sheridan St
Lancaster, WI 53813
(608) 723-2121
akilcoyne@srec.net

DESIGN CONTACTS

TIMOTHY MAEDKE
PROJECT MANAGER
WISDOT SW REGION
PROJECT DEVELOPMENT
3550 MORMON COULEE RD
LA CROSSE, WI 54601
(608) 789-6317

JONATHAN DAVIDSON
PROJECT DESIGNER
WISDOT SW REGION
PROJECT DEVELOPMENT
3550 MORMON COULEE RD
LA CROSSE, WI 54601
(608) 785-9036

DNR LIAISON

KAREN KALVELAGE
ENVIRONMENTAL ANALYSIS & REVIEW SPECIALIST
WISCONSIN DEPT. OF NATURAL RESOURCES
WEST CENTRAL REGION
3550 MORMON COULEE ROAD
LA CROSSE, WI 54601
(608) 785-9115

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
BORING SUMMARY TABLE
SUPERELEVATION DATA TABLE
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
INTERSECTION DETAILS
EROSION CONTROL
PERMANENT SIGNING
TRAFFIC CONTROL
CONTROL POINTS

* FOR INFORMATIONAL PURPOSES ONLY. BORINGS TAKEN NOVEMBER 2011.

ROADWAY BORING SUMMARY TABLE

Boring #	Mile	Station	Offset	Asphalt (inches)	Reground Asphalt (inches)	Total (inches)
1	0.102	5+39	3 RT	4.75	0.00	4.75
2	0.200	10+56	6 LT	6.00	0.00	6.00
3	0.500	26+40	9 RT	5.75	0.00	5.75
4	0.670	35+38	9 LT	4.75	5.00	9.75
5	0.920	48+58	6 RT	5.50	5.00	10.50
6	1.090	57+55	9 LT	5.00	5.00	10.00
7	1.300	68+64	9 RT	6.00	5.00	11.00
8	1.480	78+14	3 LT	5.50	5.00	10.50
9	1.700	89+76	9 RT	6.00	3.00	9.00
10	1.900	100+32	6 LT	5.00	5.50	10.50
10A	1.900	100+32	18 LT	0.00	0.00	0.00
11	2.100	110+88	9 RT	4.00	5.00	9.00
12	2.300	121+44	9 LT	4.00	5.50	9.50
13	2.500	132+00	9 RT	5.00	5.00	10.00
13A	2.500	132+00	18 RT	0.00	0.00	0.00
14	2.700	142+56	3 LT	5.25	4.75	10.00
15	2.900	153+12	9 RT	4.50	5.50	10.00
16	3.100	163+68	6 LT	4.75	5.50	10.25
17	3.300	174+24	6 RT	4.75	5.00	9.75
18	3.488	184+17	9 RT	2.50	8.00	10.50
19	3.705	195+62	10 RT	5.00	8.00	13.00
20	3.900	205+92	10 LT	5.00	6.00	11.00
21	4.060	214+37	3 LT	4.00	6.75	10.75
22	4.280	225+98	3 RT	4.00	7.00	11.00
23	4.500	237+60	9 LT	4.00	5.50	9.50
24	4.700	248+16	6 RT	5.00	5.00	10.00
24A	4.700	248+16	18 RT	0.00	0.00	0.00
25	4.900	258+72	6 LT	4.00	5.50	9.50
26	5.095	269+02	10 RT	4.00	6.00	10.00
27	5.300	279+84	9 LT	3.75	6.00	9.75
28	5.470	288+82	9 RT	5.00	6.25	11.25
29	5.700	300+96	3 LT	7.00	4.00	11.00
29A	5.700	300+96	18 LT	0.00	0.00	0.00

Boring #	Mile	Station	Offset	Asphalt (inches)	Reground Asphalt (inches)	Total (inches)
30	5.900	311+52	10 LT	5.00	4.00	9.00
31	6.100	322+08	6 RT	4.00	7.00	11.00
32	6.300	332+64	3 LT	4.00	6.00	10.00
33	6.500	343+20	9 RT	4.50	5.00	9.50
34	6.700	353+76	10 LT	4.50	7.50	12.00
35	6.900	364+32	3 RT	5.00	5.00	10.00
35A	6.900	364+32	18 RT	0.00	0.00	0.00
36	7.100	374+88	6 LT	4.00	7.00	11.00
37	7.211	380+74	10 RT	4.00	6.00	10.00
38	7.500	396+00	9 LT	4.00	7.00	11.00
39	7.700	406+56	6	5.00	5.00	10.00
39A	7.700	406+56	18 RT	5.25	6.00	11.25
40	7.905	417+38	3 LT	5.00	6.00	11.00
41	8.110	428+21	3 RT	4.75	7.00	11.75
41A	8.100	427+68	18 RT	4.00	6.00	10.00
42	8.303	438+40	9 LT	4.00	7.00	11.00
43	8.500	448+80	18 RT	3.00	4.50	7.50
44	8.735	461+21	6 LT	4.00	8.00	12.00
45	8.905	470+18	16 RT	4.00	9.00	13.00
46	9.150	483+12	9 LT	5.00	10.00	15.00
47	9.350	493+68	9 RT	5.00	8.00	13.00
48	9.500	501+60	10 LT	4.00	7.00	11.00
49	9.700	512+16	3 RT	4.00	9.00	13.00
50	9.830	519+02	10 RT	4.00	9.00	13.00
51	10.100	533+28	3 LT	4.50	8.00	12.50
51A	10.100	533+28	16 LT	0.00	0.00	0.00
52	10.300	543+84	6 RT	3.00	7.00	10.00
53	10.500	554+40	9 LT	4.00	7.00	11.00
54	10.750	567+60	9 RT	4.00	8.00	12.00
55	10.911	576+10	3 LT	3.25	8.00	11.25
56	11.100	586+08	3 RT	4.00	8.00	12.00
57	11.315	597+43	9 LT	3.00	9.00	12.00
58	11.500	607+20	9 LT	3.50	12.00	15.50

SUPERELEVATION DATA

USH 61

Curve #0 Westbound
PI_{STA}=1+96.63

Station	Type	Left	Right
---	---	---	---
---	---	---	---
14+70.00 'STH 60'	Rev. Crown	0.02	---
15+40.00 'STH 60'	Zero Super	0.00	---
16+70.00 'STH 60'	Begin NC	-0.02	---
17+00.00 'STH 60'	Begin FS	-0.03	---
5+80.00	End FS	-0.03	---
6+30.00	Begin NC	-0.02	---

Curve #0 Eastbound
PI_{STA}=6+73.10

Station	Type	Left	Right
1+00.00	End NC	---	-0.02
1+50.00	Zero Super	---	0.00
2+70.00	Rev. Crown	---	0.02
3+40.00	Begin FS	---	0.03
10+20.00	End FS	---	0.03
10+50.00	Rev. Crown	---	0.02
11+70.00	Zero Super	---	0.00
13+40.00	Begin NC	---	-0.02

Curve #1
PI_{STA}=27+01.09

Station	Type	Left	Right
22+90.86	End NC	-0.02	-0.02
23+42.04	Zero Super	-0.02	0.00
23+93.21	Rev. Crown	-0.02	0.02
24+29.04	Begin FS	-0.034	0.034
29+71.77	End FS	-0.034	0.034
30+07.59	Rev. Crown	-0.02	0.02
30+58.77	Zero Super	-0.02	0.00
31+09.95	Begin NC	-0.02	-0.02

Curve #2
PI_{STA}=35+35.82

Station	Type	Left	Right
32+32.52	End NC	-0.02	-0.02
32+83.43	Zero Super	0.00	-0.02
33+34.34	Rev. Crown	0.02	-0.02
33+39.43	Begin FS	0.022	-0.022
37+32.04	End FS	0.022	-0.022
37+37.13	Rev. Crown	0.02	-0.02
37+88.04	Zero Super	0.00	-0.02
38+38.95	Begin NC	-0.02	-0.02

Curve #3
PI_{STA}=57+43.49

Station	Type	Left	Right
39+83.49	End NC	-0.02	-0.02
40+34.56	Zero Super	-0.02	0.00
40+85.62	Rev. Crown	-0.02	0.02
41+54.56	Begin FS	-0.047	0.047
68+81.90	End FS	-0.047	0.047
69+50.83	Rev. Crown	-0.02	0.02
70+01.90	Zero Super	-0.02	0.00
70+52.96	Begin NC	-0.02	-0.02

Curve #4
PI_{STA}=98+57.18

Station	Type	Left	Right
88+71.78	End NC	-0.02	-0.02
89+22.78	Zero Super	-0.02	0.00
89+73.78	Rev. Crown	-0.02	0.02
89+73.78	Begin FS	-0.02	0.02
107+32.55	End FS	-0.02	0.02
107+32.55	Rev. Crown	-0.02	0.02
107+83.55	Zero Super	-0.02	0.00
108+34.55	Begin NC	-0.02	-0.02

Curve #5
PI_{STA}=204+02.95

Station	Type	Left	Right
187+52.12	End NC	-0.02	-0.02
188+03.32	Zero Super	0.00	-0.02
188+54.52	Rev. Crown	0.02	-0.02
189+31.32	Begin FS	0.05	-0.05
214+09.24	End FS	0.05	-0.05
214+86.04	Rev. Crown	0.02	-0.02
215+37.24	Zero Super	0.00	-0.02
215+88.44	Begin NC	-0.02	-0.02

Curve #6
PI_{STA}=238+83.37

Station	Type	Left	Right
224+39.61	End NC	-0.02	-0.02
224+90.51	Zero Super	-0.02	0.00
225+41.42	Rev. Crown	-0.02	0.02
225+74.51	Begin FS	-0.033	0.033
250+90.45	End FS	-0.033	0.033
251+23.54	Rev. Crown	-0.02	0.02
251+74.45	Zero Super	-0.02	0.00
252+25.35	Begin NC	-0.02	-0.02

Curve #7
PI_{STA}=283+03.78

Station	Type	Left	Right
275+24.88	End NC	-0.02	-0.02
275+74.62	Zero Super	-0.02	0.00
276+24.36	Rev. Crown	-0.02	0.02
277+68.62	Begin FS	-0.076	0.076
287+60.42	End FS	-0.076	0.076
289+04.68	Rev. Crown	-0.02	0.02
289+54.42	Zero Super	-0.02	0.00
290+04.16	Begin NC	-0.02	-0.02

Curve #8
PI_{STA}=314+39.46

Station	Type	Left	Right
295+39.73	End NC	-0.02	-0.02
295+89.47	Zero Super	0.00	-0.02
296+39.21	Rev. Crown	0.02	-0.02
297+83.47	Begin FS	0.076	-0.076
320+31.99	End FS	0.076	-0.076
321+76.25	Rev. Crown	0.02	-0.02
322+25.99	Zero Super	0.00	-0.02
322+75.74	Begin NC	-0.02	-0.02

Curve #9
PI_{STA}=354+80.15

Station	Type	Left	Right
348+43.47	End NC	-0.02	-0.02
348+94.68	Zero Super	-0.02	0.00
349+45.89	Rev. Crown	-0.02	0.02
350+63.68	Begin FS	-0.066	0.066
358+72.37	End FS	-0.066	0.066
359+90.16	Rev. Crown	-0.02	0.02
360+41.37	Zero Super	-0.02	0.00
360+92.59	Begin NC	-0.02	-0.02

Curve #10
PI_{STA}=375+10.82

Station	Type	Left	Right
366+89.74	End NC	-0.02	-0.02
367+40.85	Zero Super	-0.02	0.00
367+91.96	Rev. Crown	-0.02	0.02
368+55.85	Begin FS	-0.045	0.045
381+26.73	End FS	-0.045	0.045
381+90.62	Rev. Crown	-0.02	0.02
382+41.73	Zero Super	-0.02	0.00
382+92.84	Begin NC	-0.02	-0.02

Curve #11
PI_{STA}=392+02.12

Station	Type	Left	Right
384+45.75	End NC	-0.02	-0.02
384+96.86	Zero Super	0.00	-0.02
385+47.97	Rev. Crown	0.02	-0.02
386+34.86	Begin FS	0.054	-0.054
397+16.15	End FS	0.054	-0.054
398+03.04	Rev. Crown	0.02	-0.02
398+54.15	Zero Super	0.00	-0.02
399+05.26	Begin NC	-0.02	-0.02

Curve #12
PI_{STA}=434+12.76

Station	Type	Left	Right
423+16.19	End NC	-0.02	-0.02
423+67.03	Zero Super	-0.02	0.00
424+17.86	Rev. Crown	-0.02	0.02
424+28.03	Begin FS	-0.024	0.024
443+77.31	End FS	-0.024	0.024
443+87.47	Rev. Crown	-0.02	0.02
444+38.31	Zero Super	-0.02	0.00
444+89.14	Begin NC	-0.02	-0.02

Curve #13
PI_{STA}=501+26.77

Station	Type	Left	Right
487+05.67	End NC	-0.02	-0.02
487+56.58	Zero Super	-0.02	0.00
488+07.49	Rev. Crown	-0.02	0.02
488+40.58	Begin FS	-0.033	0.033
513+16.60	End FS	-0.033	0.033
513+49.69	Rev. Crown	-0.02	0.02
514+00.60	Zero Super	-0.02	0.00
514+51.51	Begin NC	-0.02	-0.02

Curve #14
PI_{STA}=570+59.18

Station	Type	Left	Right
560+03.39	End NC	-0.02	-0.02
560+54.30	Zero Super	0.00	-0.02
561+05.21	Rev. Crown	0.02	-0.02
561+38.30	Begin FS	0.033	-0.033
579+42.92	End FS	0.033	-0.033
579+76.01	Rev. Crown	0.02	-0.02
580+26.92	Zero Super	0.00	-0.02
580+77.83	Begin NC	-0.02	-0.02

2

BEGIN 2" Mill and Removal
BEGIN 2" Pavement
(STA 14+25 'STH 60')
(STA 20+00 'STH 60' = STA 0+00)
STA 5+50
END 2" Mill and Removal
END 2" Pavement
BEGIN 6" Mill and Relay
BEGIN 4" Pavement
BEGIN 4" Profile Rise
(***STA 5+50 - 7+50 TRANSITION (see Construction Detail)***)
STA 63+00
END 6" Mill and Relay
END 4" Pavement
END 4" Profile Rise
BEGIN 3" Mill and Removal
BEGIN 6" Mill and Relay
BEGIN 4" Pavement
BEGIN 1" Profile Rise
(***STA 61+00 - 63+00 TRANSITION Profile FALL of 3" (see Construction Detail)***)

STA 446+00
END 3" Mill and Removal
END 6" Mill and Relay
END 4" Pavement
CONTINUE Profile Rise of 1"
BEGIN 3" Mill and Removal
BEGIN 8" Mill and Relay
BEGIN 4" Pavement

STA 612+50
END 3" Mill and Removal
END 8" Mill and Relay
END 4" Pavement
END Profile Rise of 1"
(*** STA 612+00 - STA 612+50 (see Construction Detail)***)

BEGIN PROJECT
(STA 14+25 'STH 60')

BELL CENTER

PLUGTOWN

BOSCOBEL

Spencer Hill RD
Cadoma RD
Wheat-ville RD
Belgian LN
Bell Center RD
Sleepy Hollow RD
Young LN
Roth LN
Mt Zion RD
Long Ago LN
Gray RD
Colburn RD
Graham Hollow RD
North Irish Ridge RD
Marietta Valley RD
Richland Creek
Easter Rock LN
Wisc River

200+00
176+39
283+99
300+00
367+90
400+00
457+39
500+00
572+34
600+00
609+82
14+25 'STH 60'
0+00
32+00
64+78
100+00

Mt. Zion

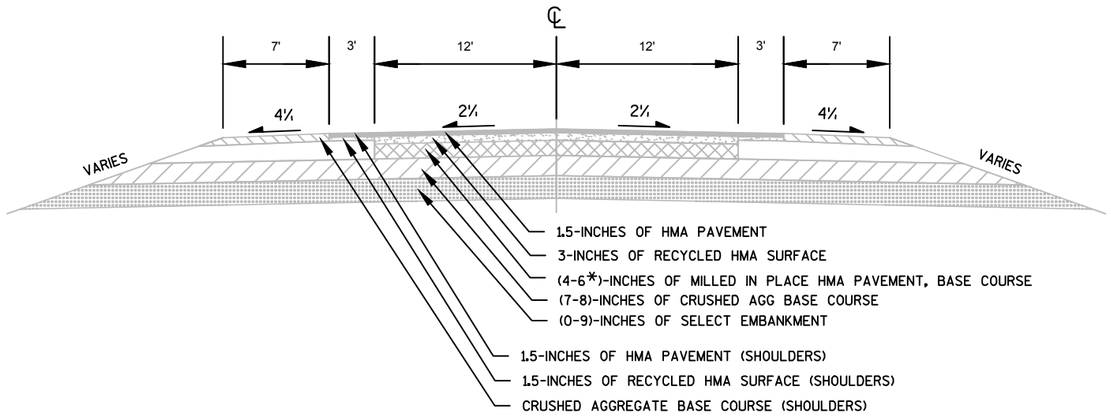
END PROJECT
STA 612+50

CHANGE SUPER-ELEVATION OF CURVE TO A CONTINUOUS 5.4%

STA 79+50
B-12-0019
POLYMER MODIFIED ASPHALTIC OVERLAY (2-INCH)
(***STA 78+38 - STA 78+88, STA 80+21 - STA 80+71
BEGIN & END Profile Rise of 1" AT BRIDGE APPROACHES (see Construction Detail)***)

N

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PROJECT OVERVIEW	SHEET 6	E

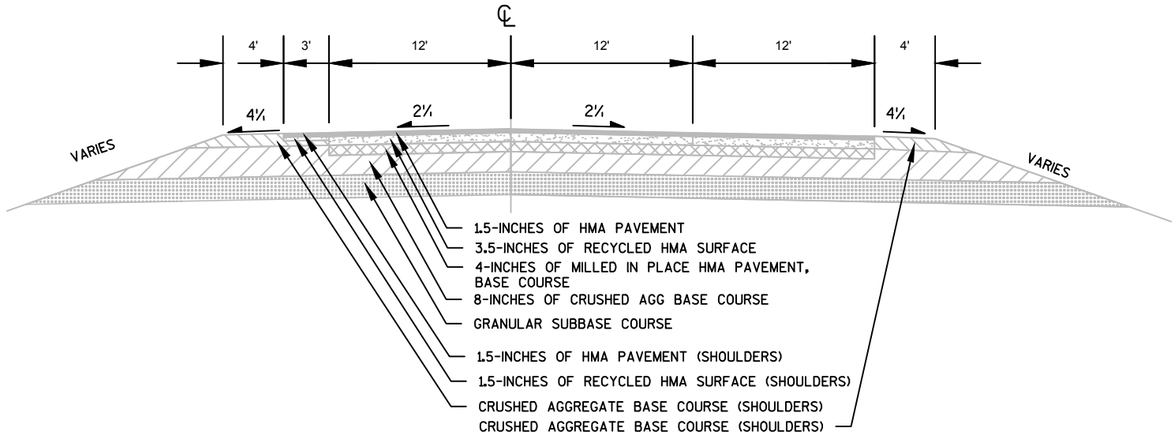


EXISTING TYPICAL SECTION - 10' SHOULDERS**

STA 0+00 TO STA 68+00

(* - IF 6-INCHES OF MILLED IN PLACE HMA PAVEMENT, BASE COURSE INCLUDED IS 2" HMA PAVEMENT AND 4" CEMENT STABALIZED BASE COURSE)

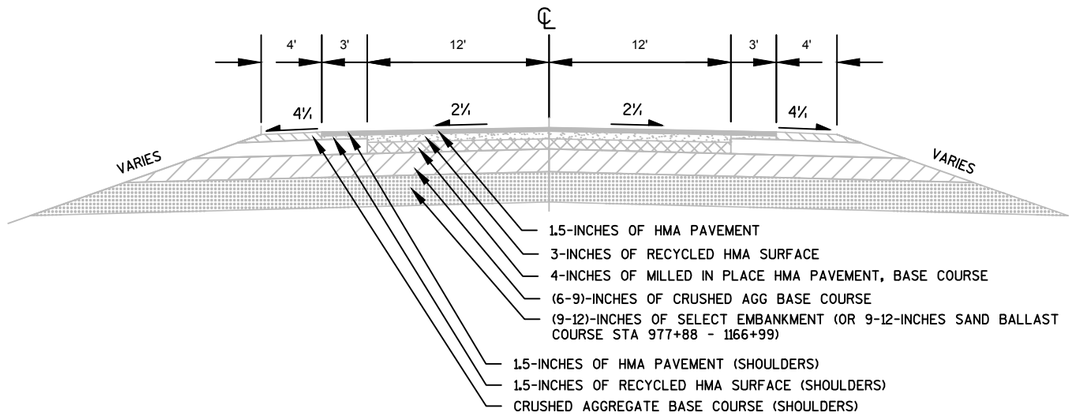
(** - SEE ROADWAY BORING SUMMARY TABLE FOR ADDITIONAL INFORMATION)



EXISTING TYPICAL SECTION - TANGENT CLIMBING LANE (RIGHT)**

STA 417+06 - 424+50
STA 442+80 - 456+00
STA 461+75 - 469+00

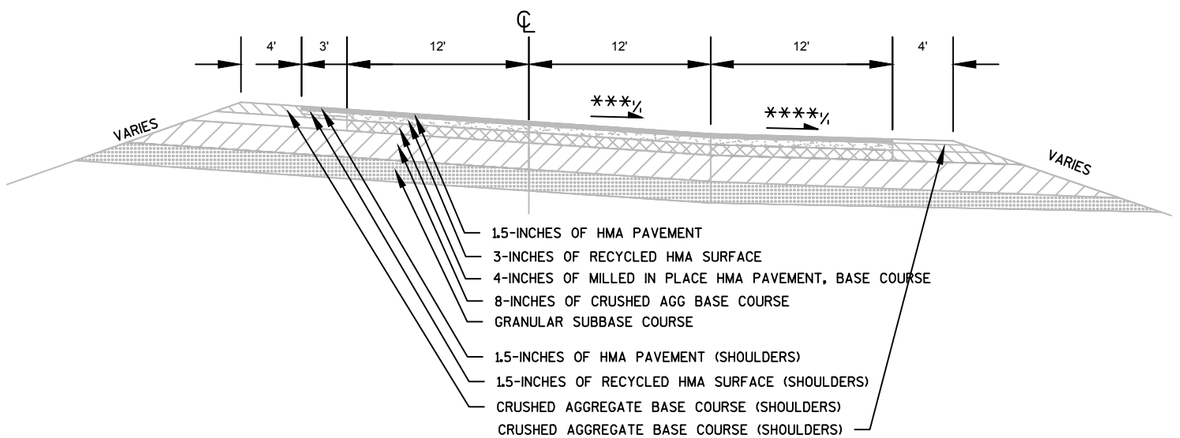
(** - SEE ROADWAY BORING SUMMARY TABLE FOR ADDITIONAL INFORMATION)



EXISTING TYPICAL SECTION - 7' SHOULDERS**

STA 68+00 TO 385+89
STA 488+00 TO 612+50

(** - SEE ROADWAY BORING SUMMARY TABLE FOR ADDITIONAL INFORMATION)

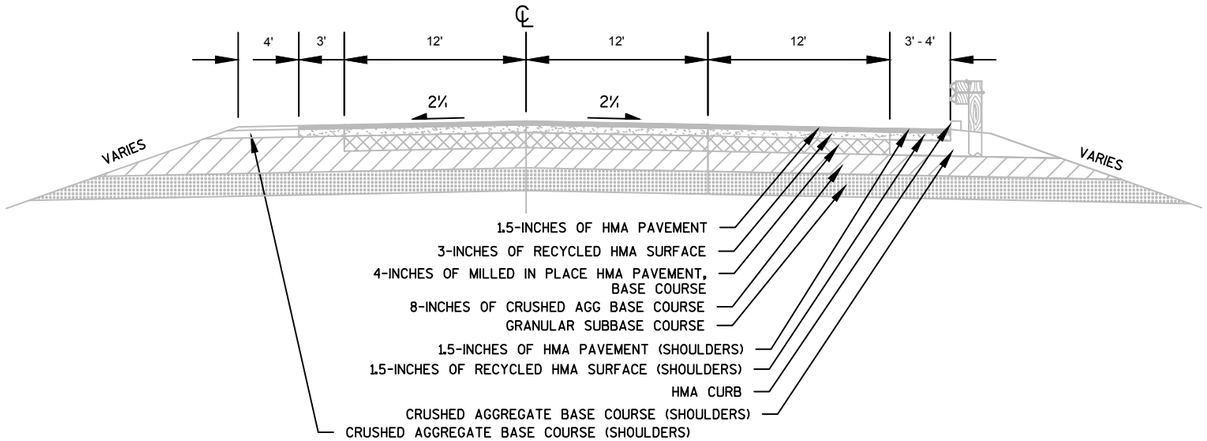


EXISTING TYPICAL SECTION - TANGENT CLIMBING LANE (RIGHT)**

STA - 385+89 - 397+62
*** - Mainline Super 6.7%
**** - Climbing Lane Super 3.0%

(** - SEE ROADWAY BORING SUMMARY TABLE FOR ADDITIONAL INFORMATION)

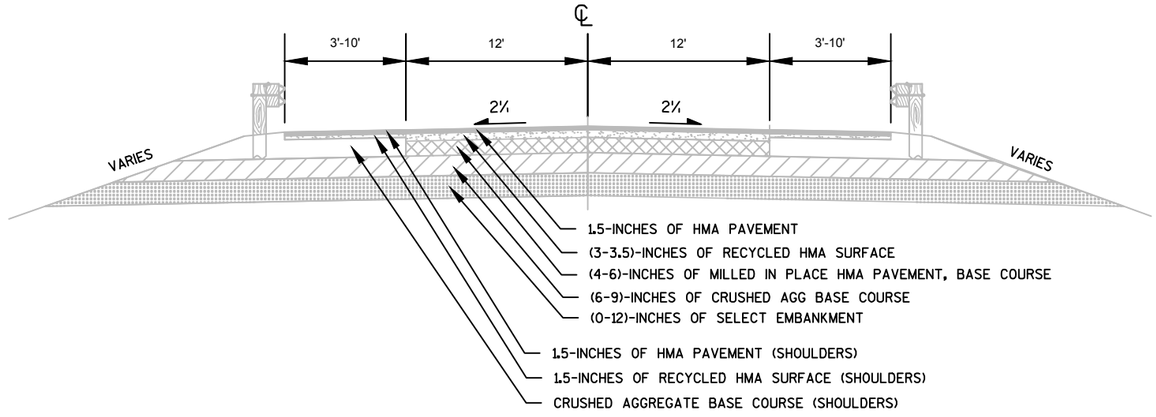
PROJECT NO:1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	TYPICAL SECTIONS	SHEET 7	E



EXISTING TYPICAL SECTION - HMA CURB WITH BEAM GUARD**

STA - 397+62 - 411+56
STA - 415+13 - 417+06

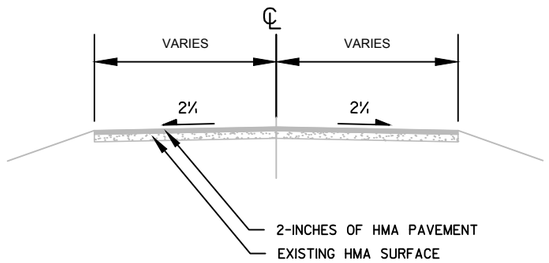
(** - SEE ROADWAY BORING SUMMARY TABLE FOR ADDITIONAL INFORMATION)



EXISTING TYPICAL SECTION - BEAM GUARD (R, L, OR BOTH)**

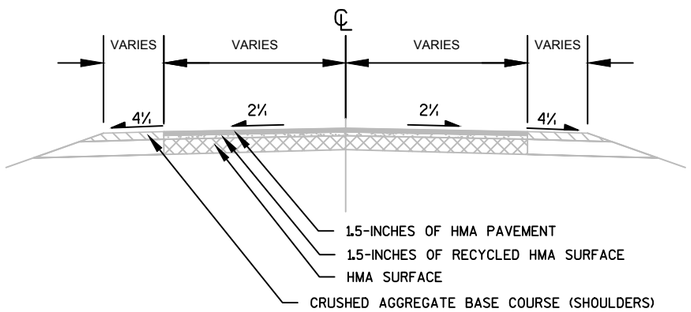
STA - VARIES

(** - SEE ROADWAY BORING SUMMARY TABLE FOR ADDITIONAL INFORMATION)



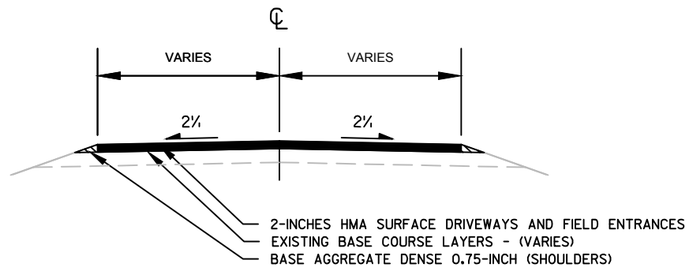
EXISTING TYPICAL PRIVATE ENTRANCE

VARIES



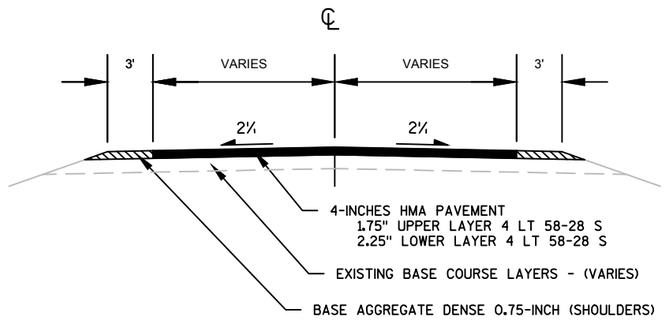
EXISTING TYPICAL SECTION - SIDE ROADS

VARIES



PROPOSED TYPICAL PRIVATE ENTRANCE

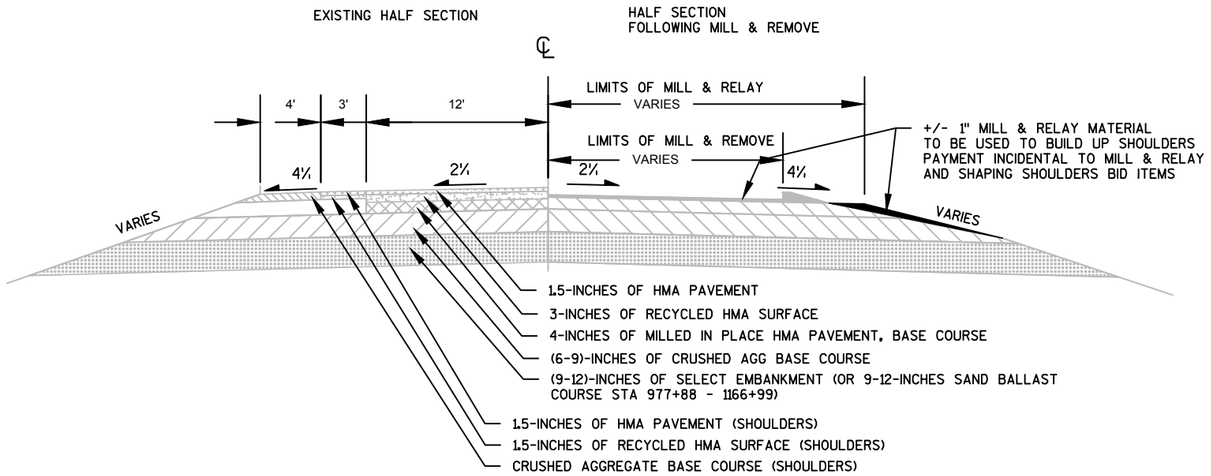
VARIES



PROPOSED TYPICAL SECTION - SIDE ROADS

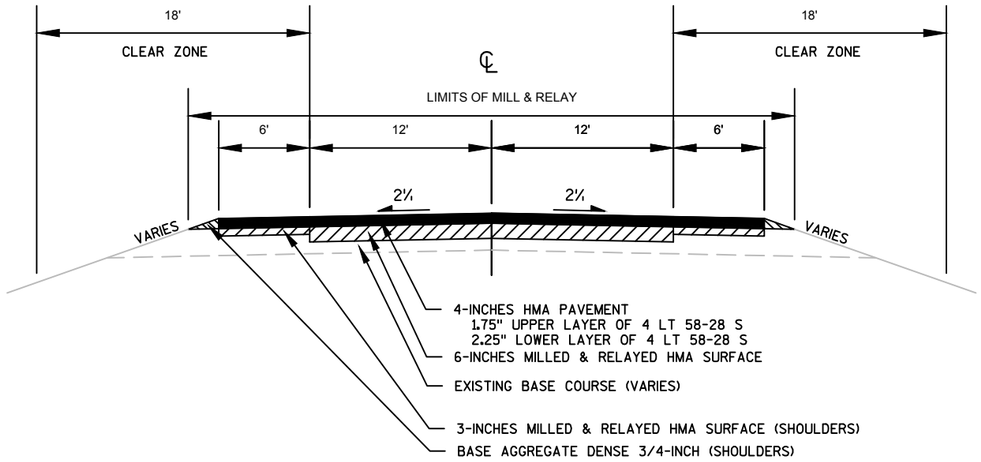
VARIES

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	TYPICAL SECTIONS	SHEET 8	E



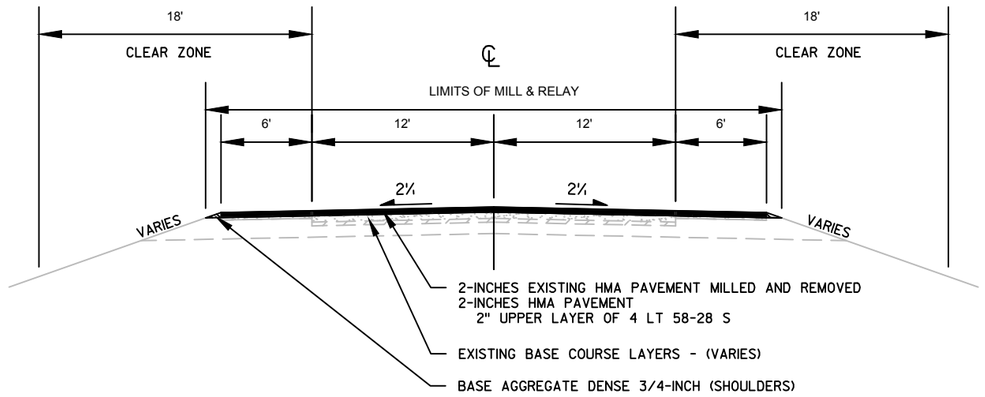
PROPOSED TYPICAL SECTION - MILLING DETAIL**

STA 5+50 TO 78+88 - MILL & RELAY 6"
STA 80+21 TO 446+00 - MILL & RELAY 6"
STA 446+00 TO 612+50 - MILL & RELAY 8"
(** - SEE ROADWAY BORING SUMMARY TABLE
FOR ADDITIONAL INFORMATION)



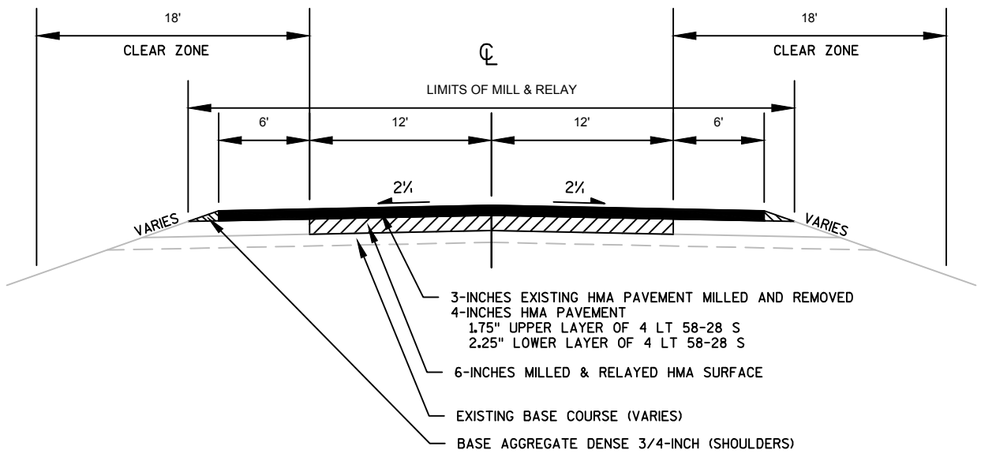
PROPOSED TYPICAL SECTION - 6' SHOULDERS**

STA 6+25 TO 64+00
(ROADWAY PROFILE WILL RISE 4" & FALL 3" IN THIS SECTION)
(SEE CONSTRUCTION DETAIL)
(** - SEE ROADWAY BORING SUMMARY TABLE
FOR ADDITIONAL INFORMATION)



PROPOSED TYPICAL SECTION - 6' SHOULDERS**

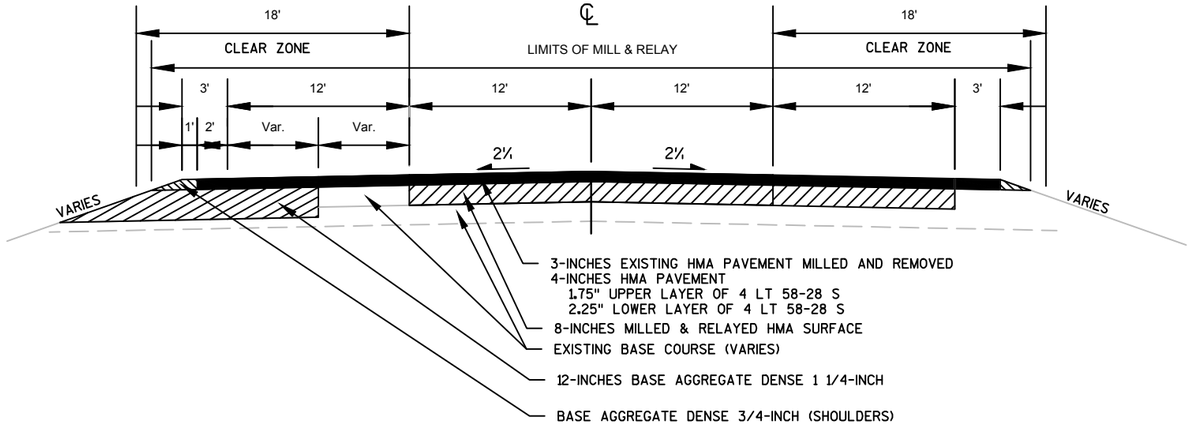
STA 14+25 'STH 60' - 20+00 'STH 60'
STA 0+00 - STA 6+25
(STA 20+00 'STH 60' = STA 0+00)
(** - SEE ROADWAY BORING SUMMARY TABLE
FOR ADDITIONAL INFORMATION)



PROPOSED TYPICAL SECTION - 6' SHOULDERS**

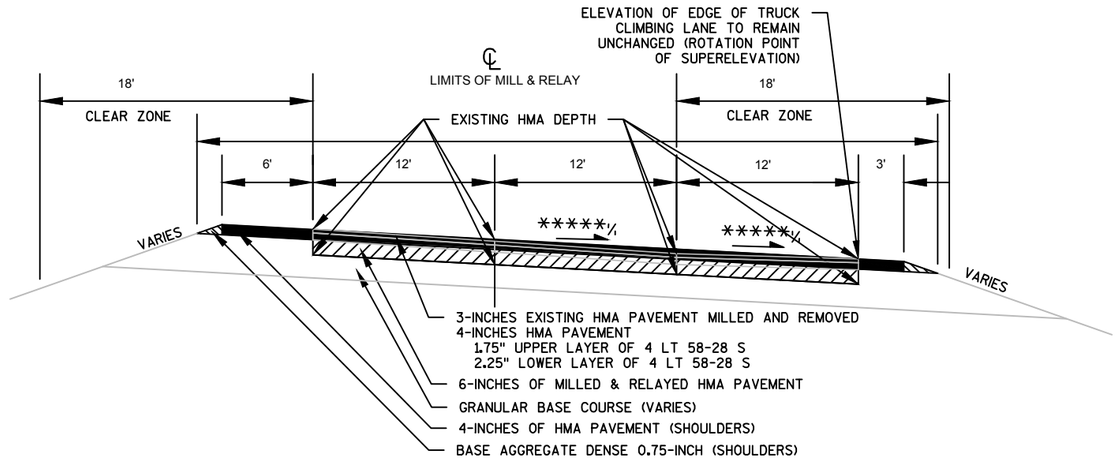
STA 64+00 TO 380+95
STA 397+62 TO 446+00
ROADWAY PROFILE WILL RISE 1-INCH IN THIS SECTION
(SEE CONSTRUCTION DETAIL)
(** - SEE ROADWAY BORING SUMMARY TABLE
FOR ADDITIONAL INFORMATION)

PROJECT NO:1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	TYPICAL SECTIONS	SHEET 9	E



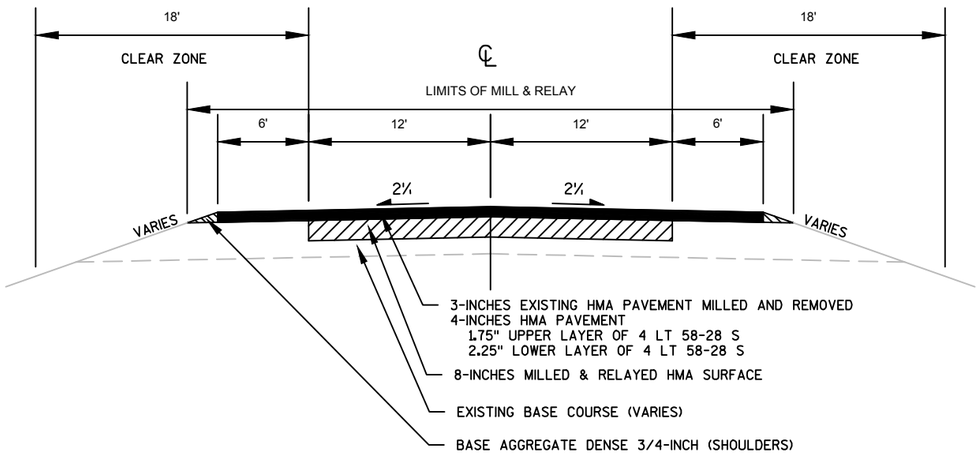
PROPOSED TYPICAL SECTION - CTH W WITH NEW 12' WIDE TURN LANE**

STA 458+11 TO 461+12
ROADWAY PROFILE WILL RISE 1-INCH IN THIS SECTION
(SEE CONSTRUCTION DETAIL)
(** - SEE ROADWAY BORING SUMMARY TABLE
FOR ADDITIONAL INFORMATION)



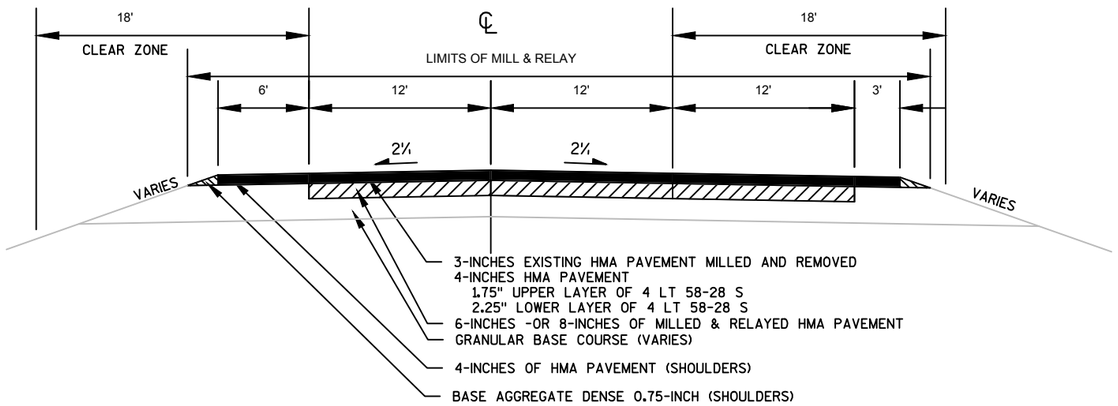
PROPOSED TYPICAL SECTION - TANGENT TRUCK CLIMBING LANE (RIGHT)**

STA 386+35 TO STA 397+16
***** - 5.4 % SUPERELEVATION
ROADWAY PROFILE WILL RISE 1-INCH IN THIS SECTION
(SEE CONSTRUCTION DETAIL)
(** - SEE ROADWAY BORING SUMMARY TABLE
FOR ADDITIONAL INFORMATION)



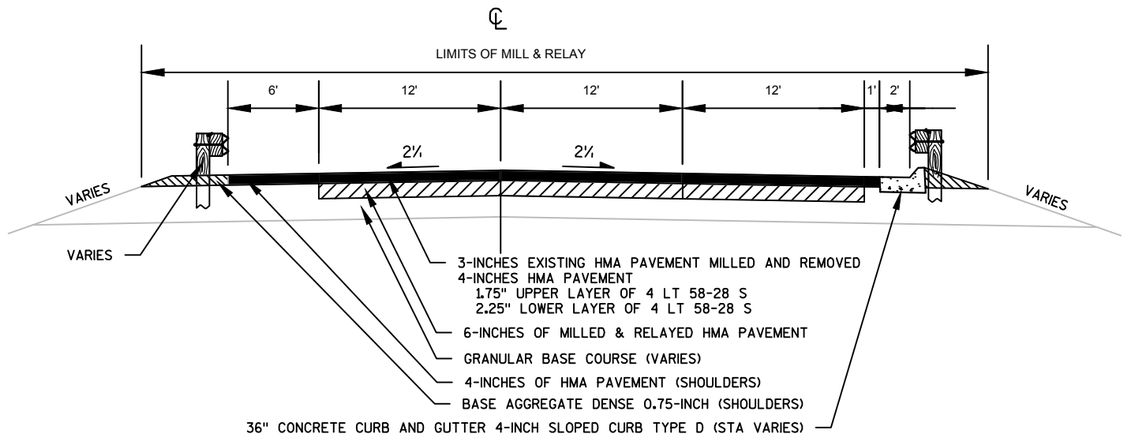
PROPOSED TYPICAL SECTION - 6' SHOULDERS**

STA 475+60 TO 612+50
ROADWAY PROFILE WILL RISE 1-INCH IN THIS SECTION
(SEE CONSTRUCTION DETAIL)
(** - SEE ROADWAY BORING SUMMARY TABLE
FOR ADDITIONAL INFORMATION)



PROPOSED TYPICAL SECTION - TANGENT TRUCK CLIMBING LANE (RIGHT) **

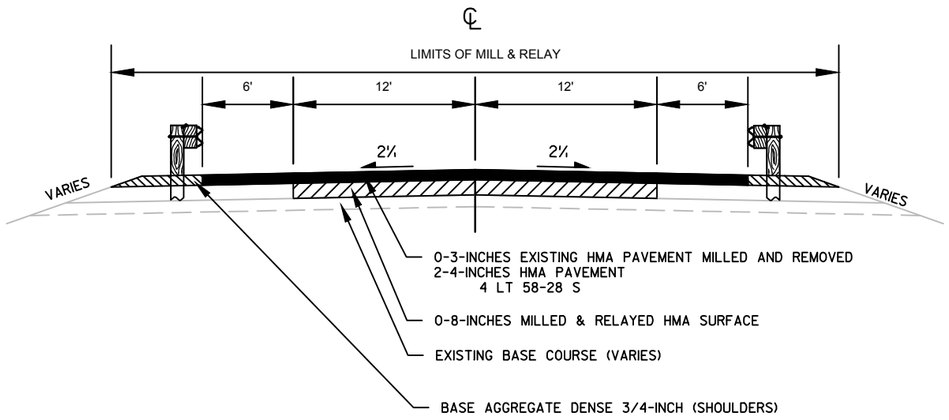
STA 383+45 TO STA 386+35 (6-INCHES MILL & RELAY)
STA 417+00 TO STA 424+44 (6-INCHES MILL & RELAY)
STA 443+48 TO STA 446+00 (6-INCHES MILL & RELAY)
STA 446+00 TO STA 458+11 (8-INCHES MILL & RELAY)
STA 461+12 TO STA 475+60 (8-INCHES MILL & RELAY)
ROADWAY PROFILE WILL RISE 1-INCH IN THIS SECTION (SEE
CONSTRUCTION DETAIL)
(** - SEE ROADWAY BORING SUMMARY TABLE
FOR ADDITIONAL INFORMATION)



PROPOSED TYPICAL SECTION - TANGENT TRUCK CLIMBING LANE (RIGHT) WITH BEAMGUARD (R, L, OR BOTH)**

STA - 397+04 TO 417+00
STA - 424+44 TO 443+48
ROADWAY PROFILE WILL RISE 1-INCH IN THIS SECTION
(SEE CONSTRUCTION DETAIL)

(** - SEE ROADWAY BORING SUMMARY TABLE FOR ADDITIONAL INFORMATION)



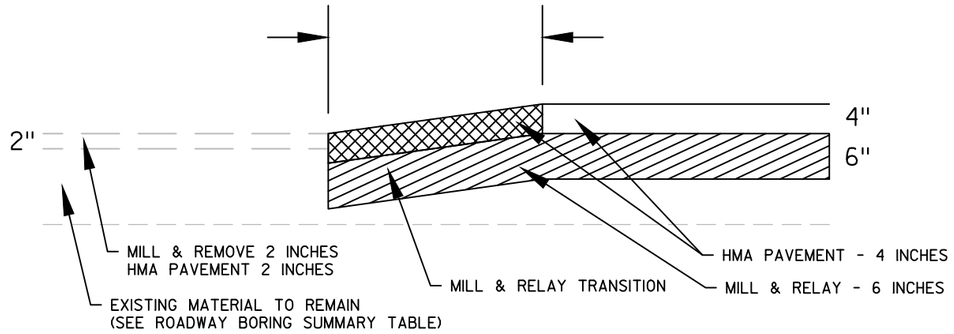
PROPOSED TYPICAL SECTION - 6' SHOULDERS & BEAM GUARD (R, L, OR BOTH)

STA VARIES
ROADWAY PROFILE WILL RISE 0-INCHES TO 4-INCHES
(SEE CONSTRUCTION DETAIL)

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	TYPICAL SECTIONS	SHEET 11	E

NOT TO SCALE

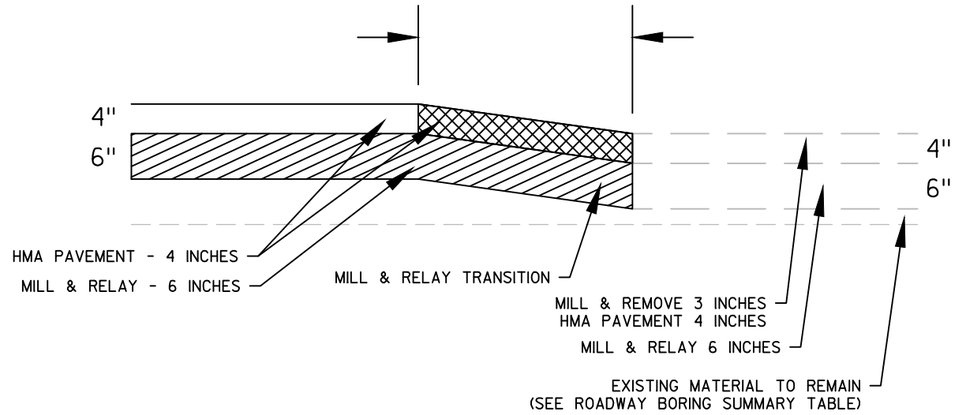
TRANSITION MAINLINE PROFILE 1 INCH PER 50 FEET



MILL/REMOVE TO MILL/RELAY TRANSITION DETAIL
STA 5+50 - STA 7+50

NOT TO SCALE

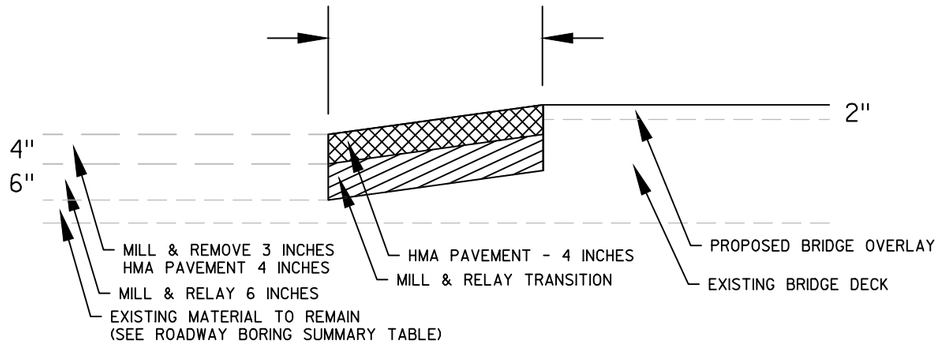
TRANSITION MAINLINE PROFILE 1 INCH PER 50 FEET



MILL/RELAY TRANSITION DETAIL
STA 61+00 - STA 63+00

NOT TO SCALE

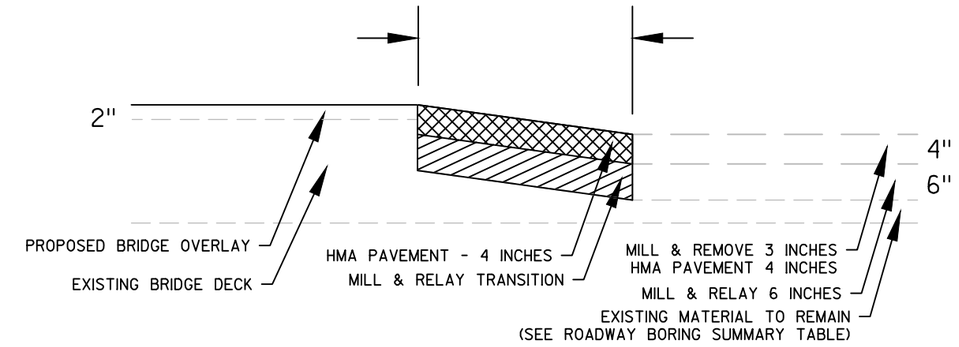
TRANSITION MAINLINE PROFILE 1 INCH PER 50 FEET



MILL & REMOVE/RELAY TO BRIDGE TRANSITION DETAIL
STA 78+38 - STA 78+88

NOT TO SCALE

TRANSITION MAINLINE PROFILE 1 INCH PER 50 FEET

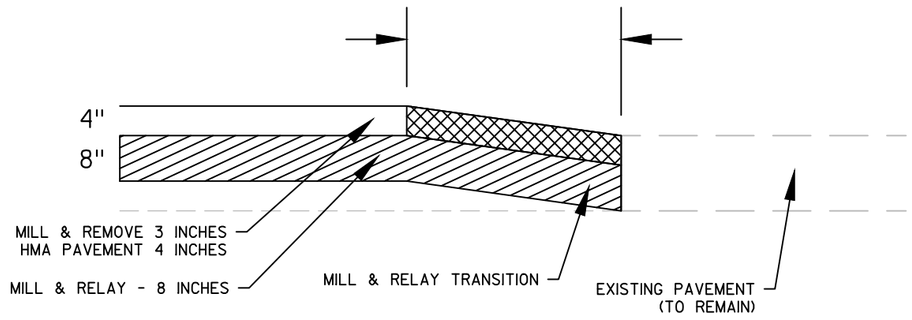


MILL & REMOVE/RELAY TO BRIDGE TRANSITION DETAIL
STA 80+21 - STA 80+71

2

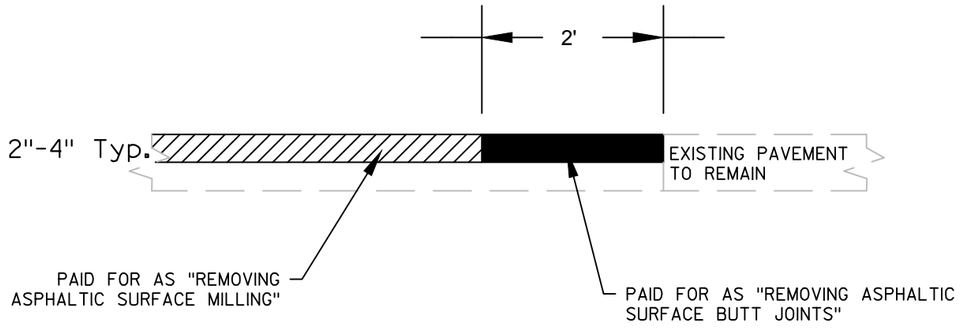
NOT TO SCALE

TRANSITION MAINLINE PROFILE 1 INCH PER 50 FEET



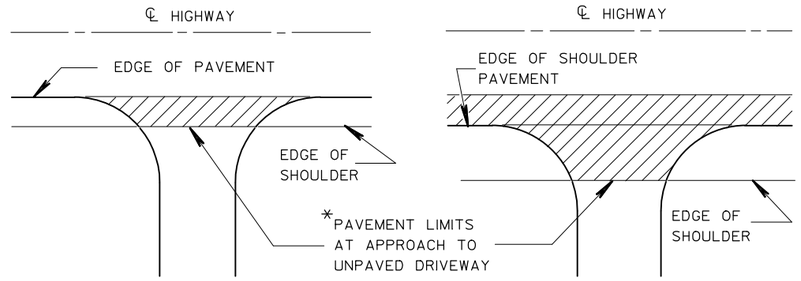
END OF PROJECT TRANSITION DETAIL
STA 612+00 - STA 612+50

NOT TO SCALE

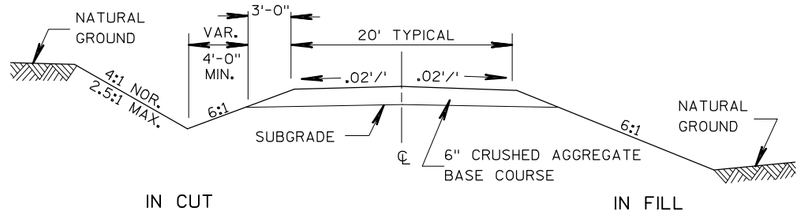


REMOVING ASPHALTIC SURFACE BUTT JOINTS DETAIL
STA VARIES

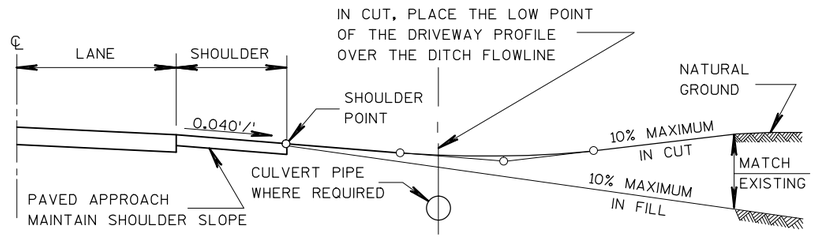
NOT TO SCALE



RURAL DRIVEWAY INTERSECTION DETAIL



TYPICAL CROSS SECTION FOR PRIVATE
DRIVE OR FIELD ENTRANCE



TYPICAL DRIVEWAY PROFILES

PROJECT NO:1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CONSTRUCTION DETAILS	SHEET 13	E

2

EASTER ROCK LN

END CONSTRUCTION
STA 0+76 'ERL'
SAWCUT REQ'D
MATCH EXISTING

PAVEMENT MARKING
SAME DAY EPOXY 4"
YELLOW CENTERLINE

0+54.24'ERL', 33.05'RT

15+66.87'STH60', 47.72'LT

15+70.94'STH60', 18.00' LT

0+68.25'ERL, 56.61'LT

16+55.75'STH60', 67.95'LT

16+53.62'STH60', 18.00'LT

EXISTING MEDIAN ISLAND
C&G TO REMAIN

PAVEMENT MARKING
EPOXY 4" WHITE EDGELINE

PAVEMENT MARKING
SAME DAY EPOXY 4"
YELLOW EDGELINE

PAVEMENT MARKING
CURB (YELLOW) &
ISLAND NOSE EPOXY

PAVEMENT MARKING
EPOXY 8" WHITE
LEFT TURN LANE LINE

PAVEMENT MARKING
ARROWS EPOXY TYPE 2
LEFT TURN ARROWS

PAVEMENT MARKING
CURB (YELLOW) &
ISLAND NOSE EPOXY

PAVEMENT MARKING
SAME DAY EPOXY 4"
YELLOW EDGELINE

PAVEMENT MARKING
EPOXY 4" WHITE EDGELINE

PAVEMENT MARKING
SAME DAY EPOXY 4"
YELLOW CENTERLINE

PT: 14+31.60'STH60'

PC: 18+26.52'STH60'

PT: 5+52.2

BEGIN CONSTRUCTION
1650-02-60
STA 14+25 'STH 60'

14+40.09'STH60', 15.00'RT

1+08.05'61N', 26.00'RT

PAVEMENT MARKING
EPOXY 8" WHITE
RIGHT TURN LANE LINE

PAVEMENT MARKING
EPOXY ARROWS TYPE 2
RIGHT TURN ARROWS

PAVEMENT MARKING
WORDS EPOXY (ONLY)

PAVEMENT MARKING
EPOXY ARROWS TYPE 2
RIGHT TURN ARROWS

PAVEMENT MARKING
EPOXY 4" WHITE EDGELINE

PAVEMENT MARKING
WORDS EPOXY (ONLY)

PAVEMENT MARKING
EPOXY ARROWS TYPE 2
RIGHT TURN ARROWS

STA 20+00.00'STH60' =
STA 00+00.00'USH61'

STA 5+26.07'61N' =
STA 00+00.00'61SB'

BP: 0+00.00'61SB'

EP: 1+23.54'61SB'

1+71.53, 39.56'RT

4+60.51'61N', 61.48'RT

0+62.71'61SB', 65.88'RT

6+07.11'61N', 81.39'RT

0+75.02'61SB', 89.21'LT

STA 0+23 '61 SB'
PAVE TO EXISTING
CONCRETE

PAVEMENT MARKING
CONCRETE CORRUGATED
MEDIAN EPOXY
RETRACE IN KIND

PAVEMENT MARKING
SAME DAY EPOXY 4"
YELLOW CENTERLINE
RETRACE IN KIND

PAVEMENT MARKING
WORDS EPOXY (ONLY)
RETRACE BOTH SETS IN KIND

PAVEMENT MARKING
EPOXY 8" WHITE
RIGHT TURN LANE LINE
RETRACE IN KIND

PAVEMENT MARKING
ARROWS EPOXY TYPE 2
RETRACE BOTH SETS OF LEFT
& RIGHT TURN ARROWS IN KIND

PAVEMENT MARKING
STOP LINE EPOXY 18"
RETRACE BOTH STOP BARS IN KIND

STH 60

USH 61

RIPRAP

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	INTERSECTION DETAIL: USH 61 & STH 60	SHEET 14	E

2

N

56+00

57+00

58+00

59+00

60+00

61+00

USH 61/STH 60

56+13.84, 18.00'RT

R70'

R40'

57+57.57, 52.43'RT

56+12.89, 87.99'RT

END CONSTRUCTION
SAWCUT REQ'D
MATCH EXISTING

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	INTERSECTION DETAIL: DNR BOAT LANDING	SHEET 15	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\021101-ID.DWG
LAYOUT NAME - 0211(02)_id

PLOT DATE : 3/30/2017 1:31 PM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

MARIETTA VALLEY RD

EXISTING C&G TO REMAIN

BP: 0+00.00'MVS'

END CONSTRUCTION
STA 0+90'MVS'
SAWCUT REQ'D
MATCH EXISTING

1+00'MVS'

1+50.79'MVS', 47.97'RT
64+39.48, 60.33'LT

62+43.98, 18.00'LT

STA 2+03.48'MVS' =
STA 64+77.94
CONSTRUCT TYPE D
INTERSECTION

PAVEMENT MARKING
SAME DAY EPOXY 4"
YELLOW CENTERLINE

R30'

R40'

0+76.35'MVS', 53.02'LT

65+56.61, 67.10'LT

65+77.79, 24.00'LT

PAVEMENT MARKING
EPOXY 4" WHITE EDGELINE
EXTENSION

PAVEMENT MARKING
EPOXY 4" WHITE EDGELINE

67+42.31, 18.00'LT

62+00
63+00
64+00
65+00
66+00
67+00

26'
24'
2'
28'
24'
27'
12'
24'
12'

100°17'33"

2+00'MVS'

93°11'2"

61+46.54, 26.00'RT

PAVEMENT MARKING
EPOXY 4" WHITE EDGELINE

PAVEMENT MARKING
STOP LINE EPOXY 18"

USH 61

63+72.07, 26.00'RT

66+32.05, 18.00'RT

PAVEMENT MARKING
EPOXY 8" WHITE
RIGHT TURN LANE LINE

REMOVE AND REPLACE
CONCRETE CURB TYPE J

R70'

R70'

STA 00+00.00'60E' =
STA 64+77.94
CONSTRUCT TYPE A2
INTERSECTION

EXISTING ISLAND CURB TO
REMAIN

PAVEMENT MARKING
EPOXY 8" WHITE

65+67.95, 89.00'RT

0+82.53'60E', 97.67'LT

63+82.29, 93.91'RT

0+96.40'60E', 95.18'RT

1+00'60E'

REMOVE AND REPLACE
ASPHALTIC SURFACE

0+88.54'60E', 33.74'LT

REMOVE AND REPLACE
CONCRETE CURB & GUTTER
6-INCH SLOPED 36-INCH TYPE D

PAVEMENT MARKING
SAME DAY EPOXY 4"
YELLOW CENTERLINE

1+89.21'60E', 15.00'RT

STH 60

END CONSTRUCTION
STA 2+10'60E'
BUTT JOINT REQ'D
MATCH EXISTING

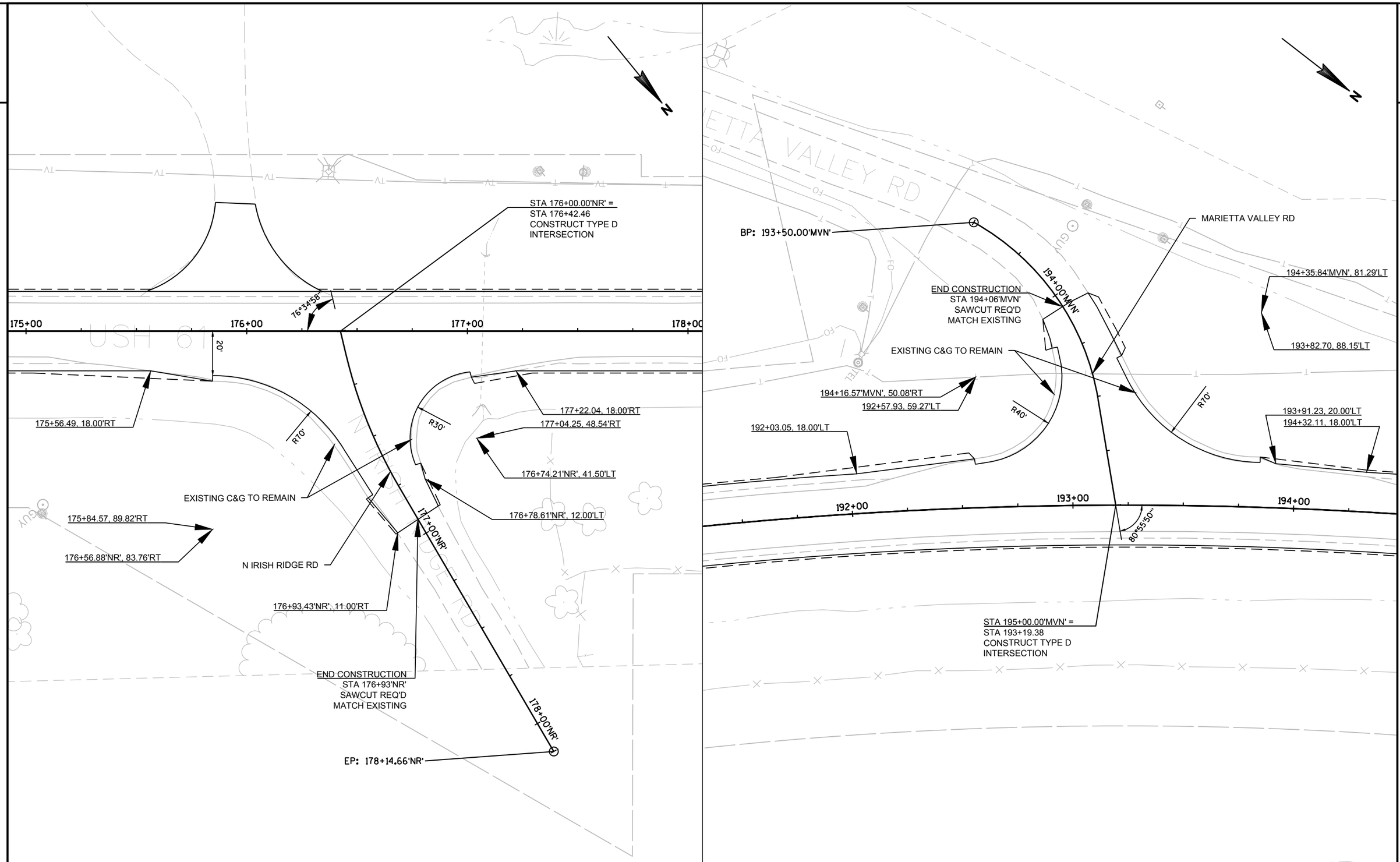
1+93.54'60E', 15.00'LT

2+00'60E'

12'
12'

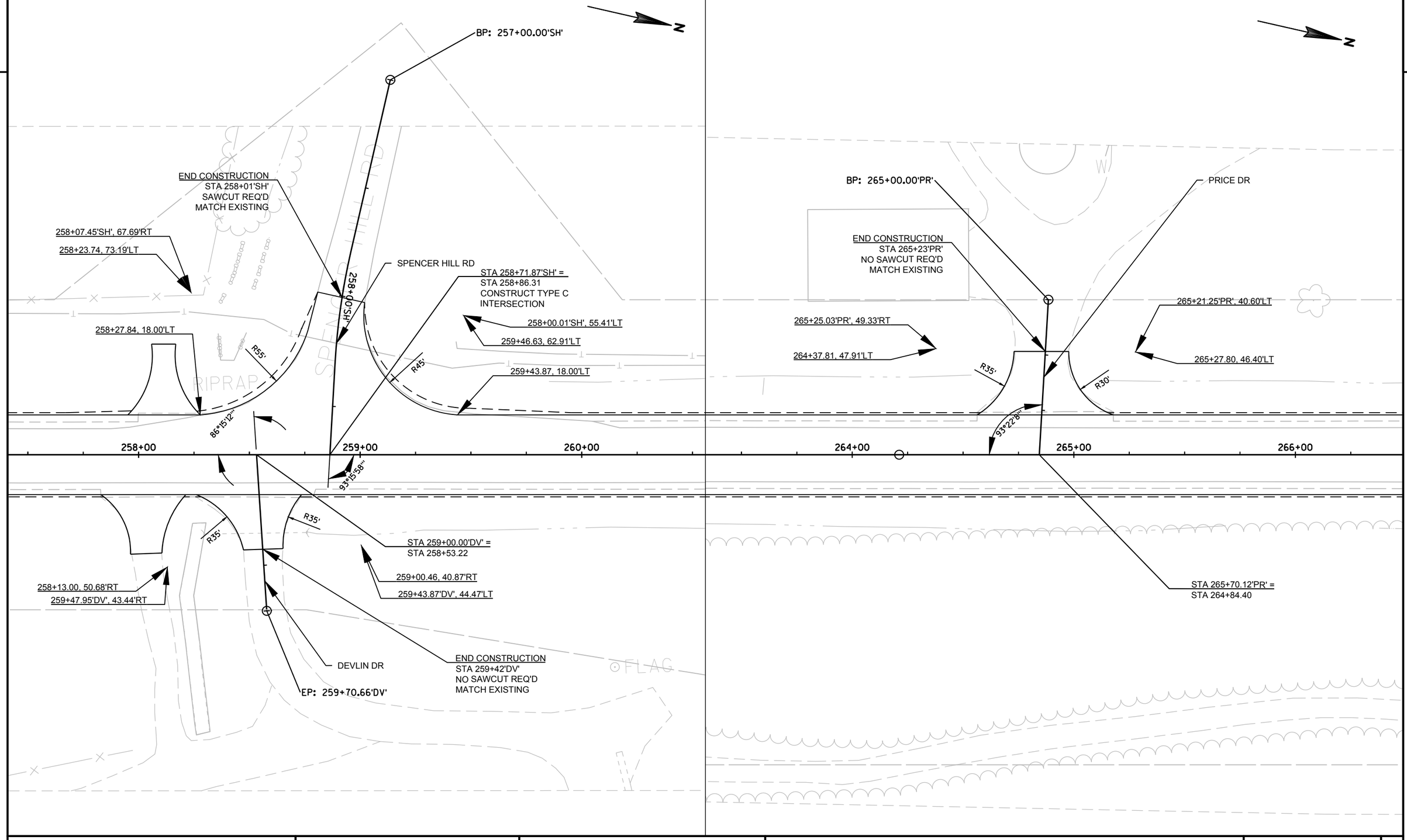
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	INTERSECTION DETAIL: STH 60 & MARIETTA VALLEY RD	SHEET	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\021101-ID.DWG
LAYOUT NAME - 0211(03)_id
PLOT DATE : 3/30/2017 1:31 PM
PLOT BY : PETERSON, SHANE J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	INTERSECTION DETAIL: N IRISH RIDGE RD & MARIETTA VALLEY RD	SHEET 17	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\021101-ID.DWG
LAYOUT NAME - 0211(04)_id
PLOT DATE : 3/30/2017 1:32 PM
PLOT BY : PETERSON, SHANE J
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	INTERSECTION DETAIL: SPENCER HILL RD & PRICE DR	SHEET 18	E

2

EXIST R/W

STA 284+00.00'GH' =
STA 283+96.33
CONSTRUCT TYPE D
INTERSECTION

84°54'34"

283+00

284+00

285+00

23'

21'

282+53.37, 18.00'RT

283+20.44, 21.00'RT

283+35.94, 80.31'RT

284+72.53'GH', 72.04'RT

284+92.16, 18.00'RT

284+54.80, 61.13'RT

284+65.60'GH', 54.64'LT

284+85.21'GH', 13.13'LT

R60'

R40'

EXISTING C&G TO REMAIN

285+00'GH'

24'

END CONSTRUCTION
STA 285+04'GH'
SAWCUT REQ'D
MATCH EXISTING

286+00'GH'

GRAHAM HOLLOW RD

RICHLAND

STA 294+00.00'BC' =
STA 293+87.99

293+00

294+00

295+00

90°44'28"

R55'

R50'

293+25.94, 60.75'RT

294+60.83'BC', 61.98'RT

294+43.96, 55.69'RT

294+55.62'BC', 56.03'LT

END CONSTRUCTION
STA 294+44'BC'
NO SAWCUT REQ'D
MATCH EXISTING

EP: 294+92.04'BC'

BEAR CAVE LN

BEAR CAVE LN

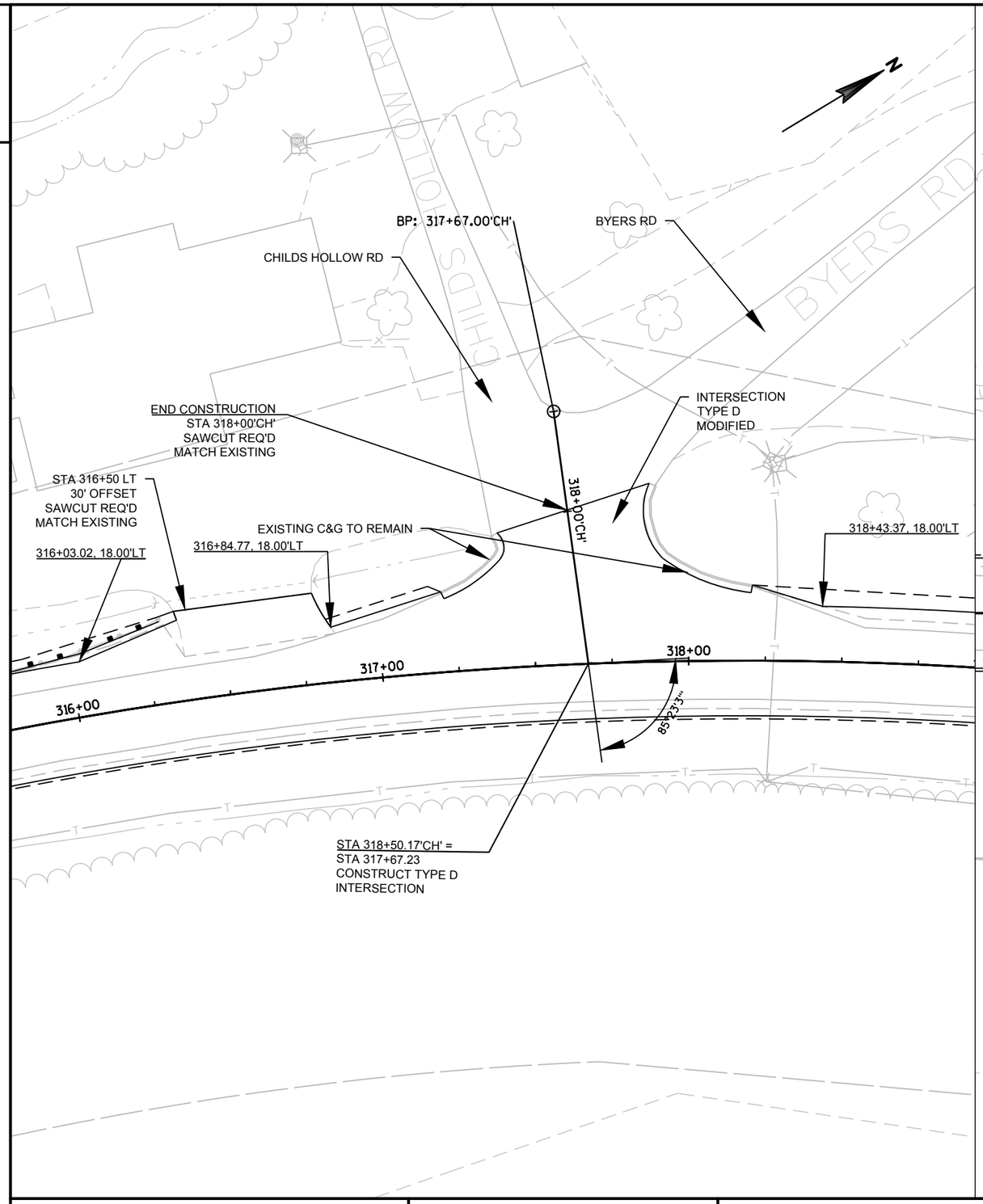
2

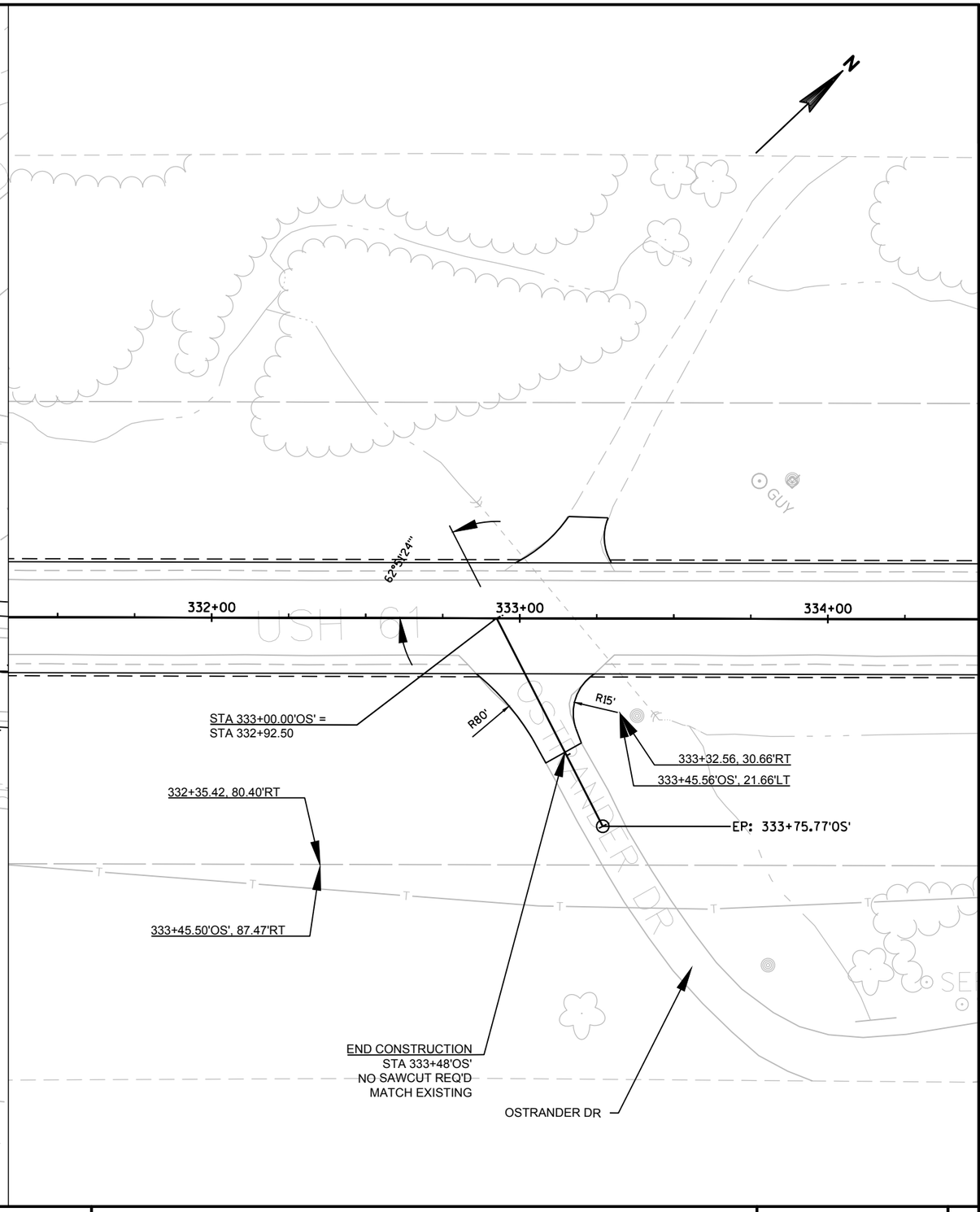
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	INTERSECTION DETAIL: GRAHAM HOLLOW RD & BEAR CAVE LN	SHEET 19	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\021101-ID.DWG
LAYOUT NAME - 0211(06)_id

PLOT DATE : 3/30/2017 1:33 PM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : ##########

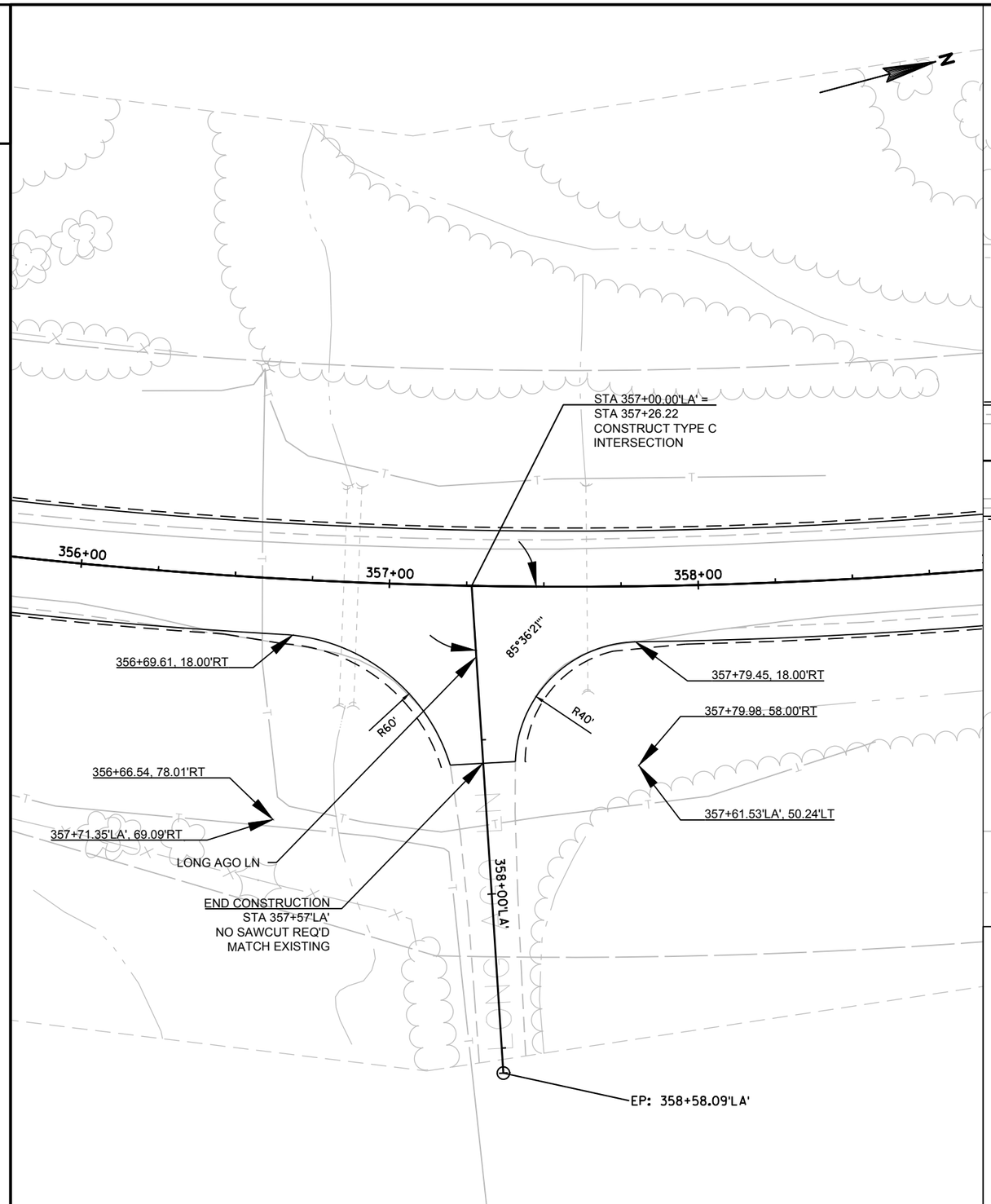
WISDOT/CADDS SHEET 42

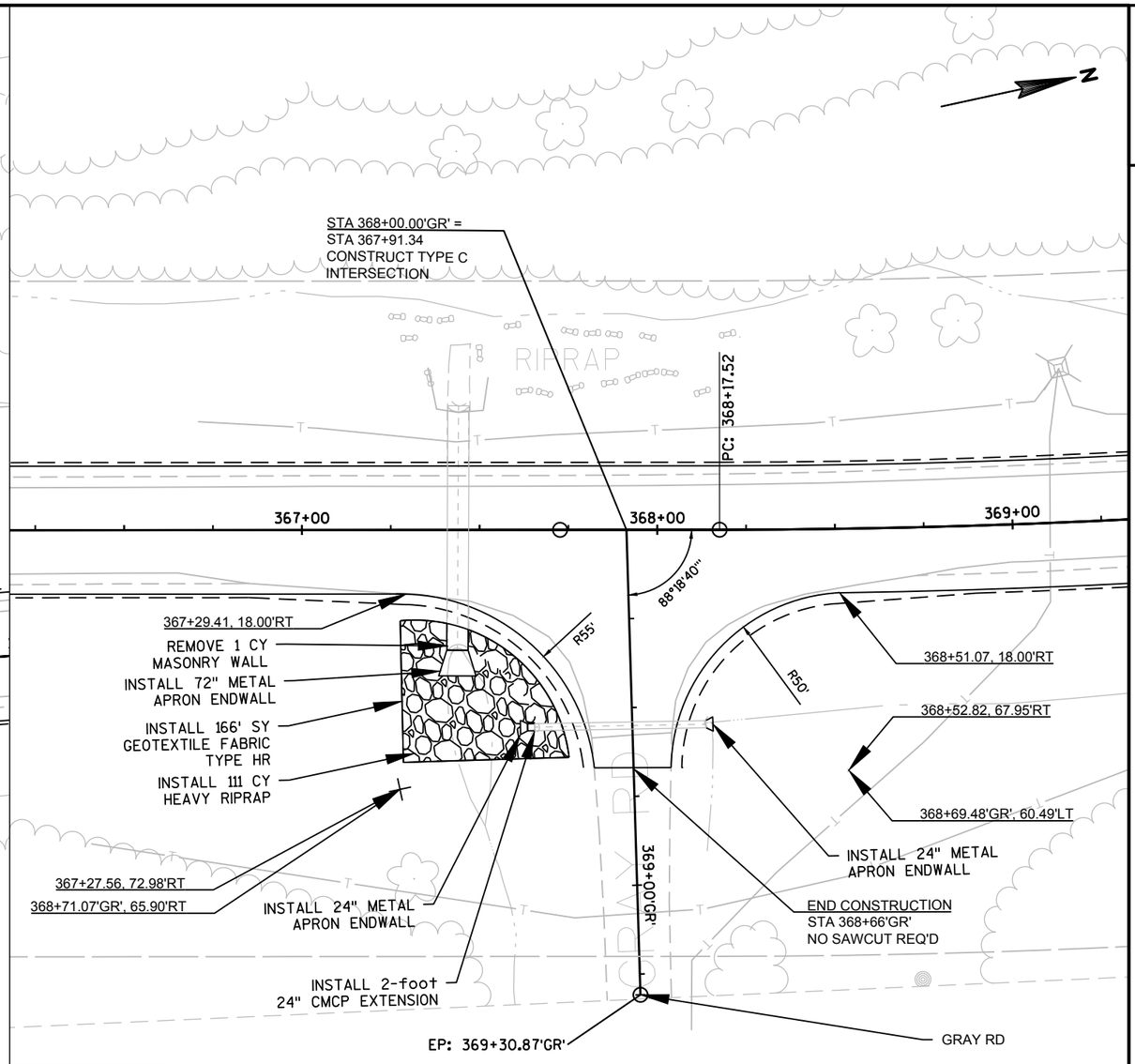


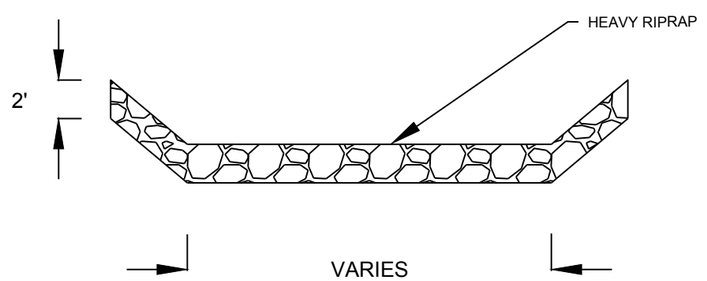


PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	INTERSECTION DETAIL: CHILDS HOLLOW RD/BYERS RD & OSTRANDER DR	SHEET 20	E

2







PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	INTERSECTION DETAIL: LONG AGO LN & GRAY RD	SHEET 21	E

2

N

END CONSTRUCTION
STA 405+76'FR'
NO SAWCUT REQ'D
MATCH EXISTING

FRY LN

405+79.11'FR', 84.06'LT

406+45.26, 87.78'LT

406+01.02, 33.53'LT

BP: 405+00.00'FR'

405+37.61'FR', 18.85'RT

405+36.30, 44.65'LT

405+47.04, 18.00'LT

R16'

R70'

406+39.76, 18.00'LT

404+00'FR'

64°50'21"

405+00

406+00

407+00

INL

STA 406+24.60'FR' =
STA 405+95.63

BP: 426+00.00'MZ'

N

MT ZION RD

END CONSTRUCTION
STA 427+11'MZ'
SAWCUT REQ'D
MATCH EXISTING

STA 427+78.03'MZ' =
STA 427+67.11
CONSTRUCT TYPE C
INTERSECTION

427+17.36'MZ', 63.44'RT

426+94.91'MZ', 54.41'LT

427+05.88, 68.00'LT

428+27.17, 68.79'LT

427+00'MZ'

R45'

428+22.80, 24.00'LT

427+05.32, 18.00'LT

R50'

428+76.06, 18.00'LT

89°18'18"

24'

427+00

428+00

429+00

USH 61

91°33'56"

427+12.07, 27.00'RT

428+09.54, 27.00'RT

STA 428+00.00'CL' =
STA 427+62.01
CONSTRUCT TYPE C
INTERSECTION

R55'

R50'

428+24.00, 74.83'RT

427+00.36, 80.72'RT

428+76.31'CL', 60.56'LT

428+78.49'CL', 64.88'RT

END CONSTRUCTION
STA 428+61'CL'
NO SAWCUT REQ'D
MATCH EXISTING

429+00'CL'

COALBURN RD

EP: 429+52.18'CL'

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	INTERSECTION DETAIL: FRY LN & COALBURN RD/MT ZION RD	SHEET 22	E

2

BP: 455+57.40'CW'

456+00'CW'

STA 456+59 'CW'
SAW CUT REQ'D
MATCH EXISTING

EXISTING
RIGHT OF WAY

EXISTING C&G TO REMAIN

456+69.88'CW', 49.03'RT

456+94.72, -58.67' LT

R37'

457+00'CW'

CTH W

456+75.87'CW', 78.47'LT

458+19.50, -85.52' LT

458+11.49, 26.00'LT

R62'

PROPOSED SLOPE
INTERCEPT

PROPOSED
RIGHT OF WAY

EXISTING
RIGHT OF WAY

460+11.48, 26.00'LT

461+11.55, 18.00'LT

POST

POST

POST

12'
12'
12'
12'
12'
12'

456+00 457+00 458+00 459+00 460+00 461+00

USH 61

STA 456+50 RT
CONSTRUCT GRAVEL PE

456+65.32, 88.22' RT

458+38.72'CW', 73.81'RT

R60'

458+00'CW'

R45'

P24

458+02.84, 72.90' RT

458+13.29'CW', 62.33'LT

EXISTING C&G TO REMAIN

CTH W

STA 458+46 'CW'
END CONSTRUCTION
MATCH EXISTING
SAW CUT REQUIRED

459+00'CW'

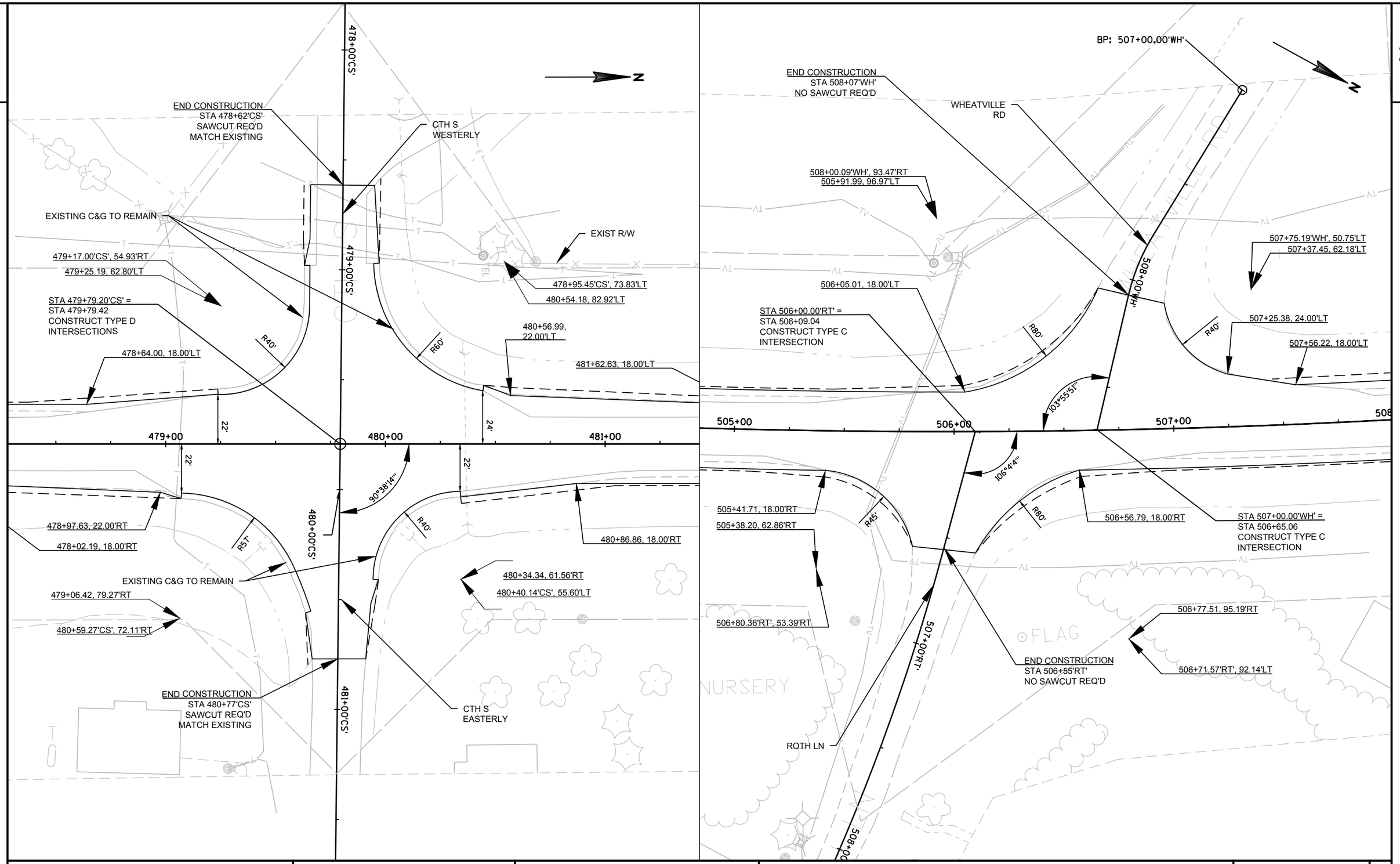
N

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	INTERSECTION DETAIL: CTH W	SHEET 23	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\021101-ID-CTH W FINAL.DWG
LAYOUT NAME - 021101-ID-CTH W FINAL - SHEET - (6)

PLOT DATE : 3/30/2017 1:49 PM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42



PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	INTERSECTION DETAIL: CTH S & WHEATVILLE RD/ROTH LN	SHEET 24	E

2

EXIST R/W

STA 522+00.00'YG' =
STA 522+27.92

521+00 522+00 523+00

91°31'44"

521+73.53, 18.00'RT

R40'

521+72.17, 57.98'RT

522+75.76'YG', 49.62'RT

R45'

522+77.67, 18.00'RT

522+41.13'YG', 19.32'LT

522+86.41, 62.13'RT

522+51.55'YG', 62.28'LT

END CONSTRUCTION
STA 522+55'YG'
NO SAWCUT REQ'D

523+00'YG'

524+00'YG'

YOUNG LN

EP: 524+04.67'YG'

STA 546+00.00'HP' =
STA 546+25.26

545+00 546+00 547+00

90°0'0"

545+92.34, 18.00'RT

R30'

545+88.34, 47.78'RT

546+47.63'HP', 37.10'RT

END CONSTRUCTION
STA 546+43'HP'
NO SAWCUT REQ'D

HAPPY PLACE LN

546+47.08, 18.00'RT

R30'

546+61.49, 44.32'RT

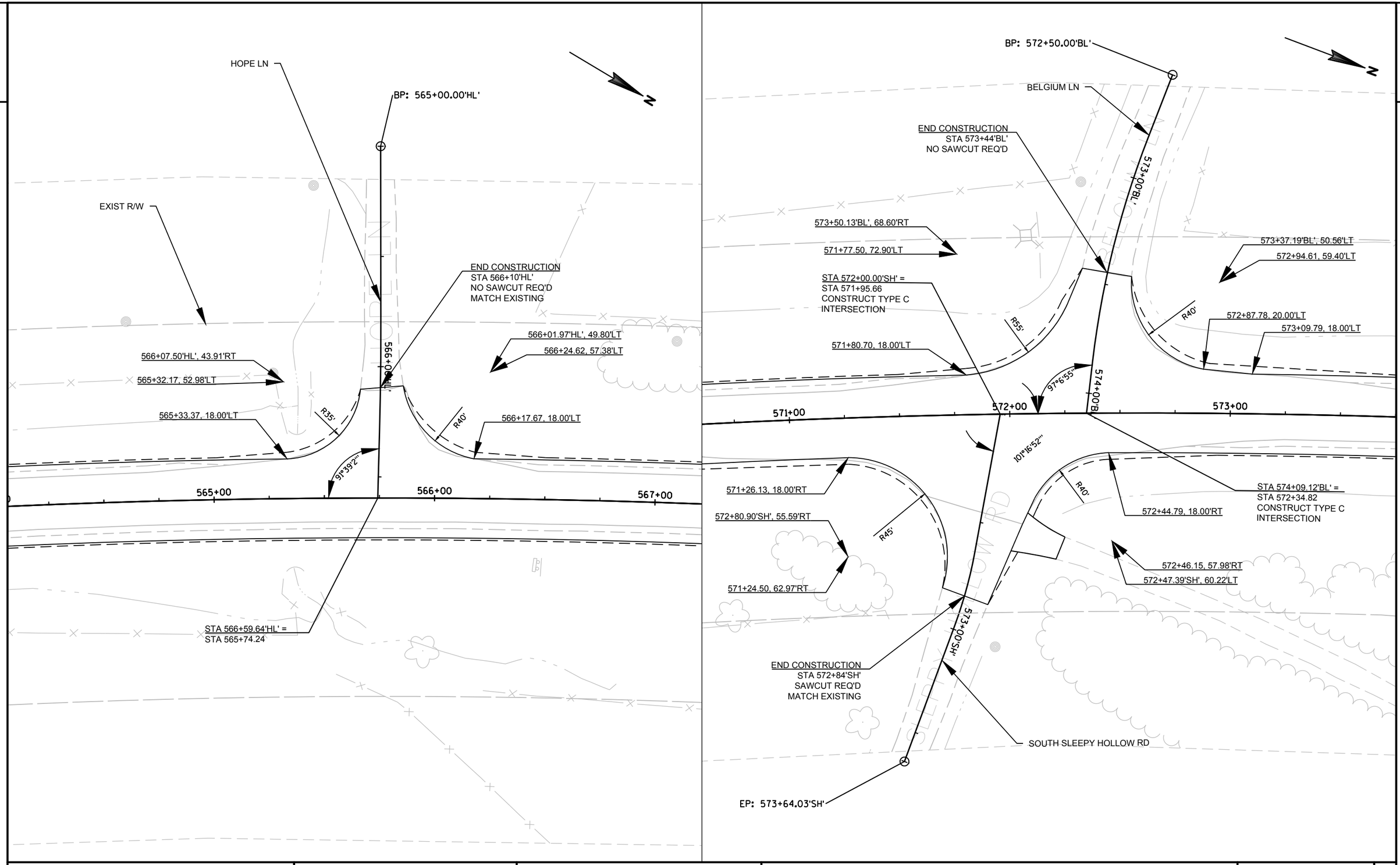
546+44.47'HP', 36.06'LT

EP: 546+95.28'HP'

2

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	INTERSECTION DETAIL: YOUNG LN & HAPPY PLACE LN	SHEET	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\021101-ID.DWG
LAYOUT NAME - 0211(11)_id
PLOT DATE : 3/30/2017 1:36 PM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42



PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	INTERSECTION DETAIL: HOPE LN & S SLEEP HOLLOW RD/BELGIUM LN	SHEET 26	E

2

2

BP: 0+00.00'BC'

BELL RIDGE RD

END CONSTRUCTION
STA 0+79'BC'
SAWCUT REQ'D
MATCH EXISTING

EXIST R/W

END CONSTRUCTION
1650-02-60
STA 612+50

STA 1+75.87'BC' =
STA 609+83.66
CONSTRUCT TYPE C
INTERSECTION

1+00'BC

1+25.75'BC', 45.10'RT

609+39.06, 50.62'LT

609+43.83, 21.00'LT

609+11.52, 18.00'LT

R30'

90°34'25"

1+10.18'BC', 50.55'LT

610+35.29, 61.16'LT

R40'

610+33.74, 21.00'LT

610+84.77, 18.00'LT

609+00

610+00

611+00

612+00

613+00

614+00

USH 61

91°25'35"

609+35.88, 18.00'RT

R25'

R35'

609+95.66, 18.00'RT

STA 610+00.00'JM' =
STA 609+67.10

610+46.51'JM', 42.42'LT

610+07.46, 50.95'RT

610+46.27'JM', 32.90'RT

609+32.59, 42.78'RT

611+00'JM

END CONSTRUCTION
STA 610+45'JM'
NO SAWCUT REQ'D
MATCH EXISTING

FLAG

EP: 611+58.61'JM'

JIM'S DR

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	INTERSECTION DETAIL: BELL CENTER RD (BELL RIDGE RD)	SHEET 27	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\021101-ID.DWG
LAYOUT NAME - 0211(13)_id
PLOT DATE : 3/30/2017 1:37 PM
PLOT BY : PETERSON, SHANE J
PLOT NAME :
PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2

EXIST R/W

PT: 14+31.60

PC: 18+26.52

EP: 20+00.00

PT: 5+52.27

15+00

5+00

1+00

SIGN

STORM SEWER INLETS

STORM SEWER INLETS

RIPRAP

EASTER ROAD

MH

INL

EROSION CONTROL LEGEND

INLET PROTECTION TYPE C

EXIST R/W

PT: 69+21.89

60+00

70+00

1+00

2+00

DO NOT DISTURB
ARCHAEOLOGICAL
SITE STA 65+00 -
STA 73+00 - RT

INSTALL SILT
FENCE

EROSION CONTROL LEGEND

4-INCH SALVAGED TOPSOIL, MULCHING, SEEDING MIX NO. 20, FERTILIZER TYPE B

SILT FENCE

SURFACE WATER FLOW

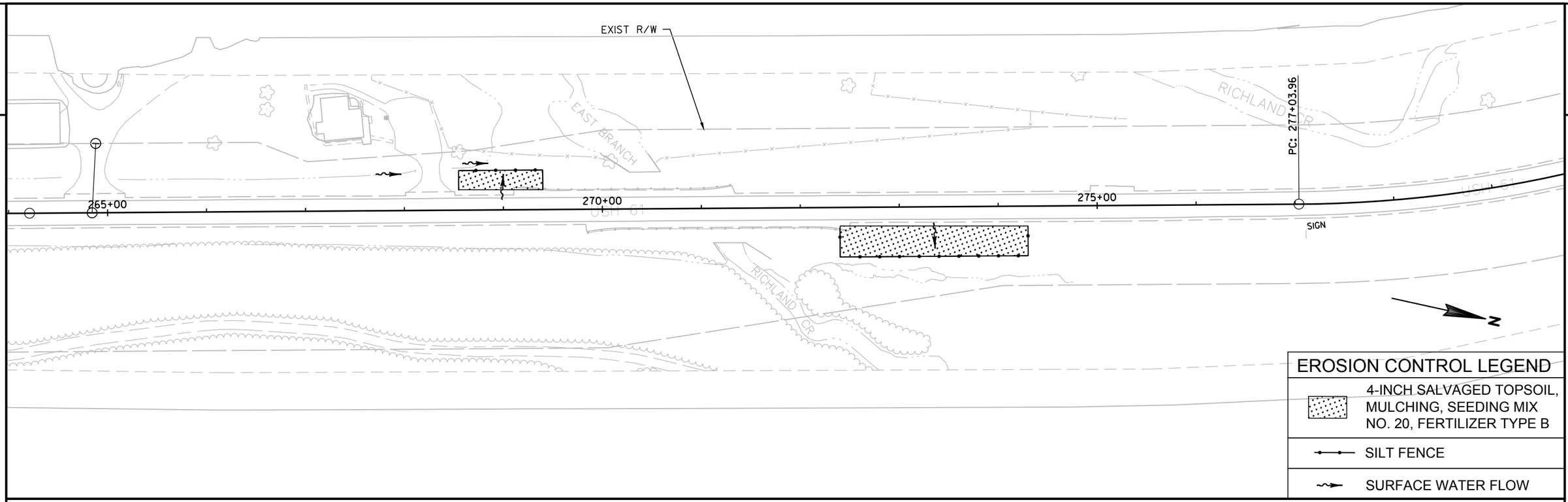
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	EROSION CONTROL	SHEET 28	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\022001-EC 3.DWG
LAYOUT NAME - 022001-EC 3 - 0502 (01)_PN

PLOT DATE : 1/31/2017 5:27 PM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:100 FT

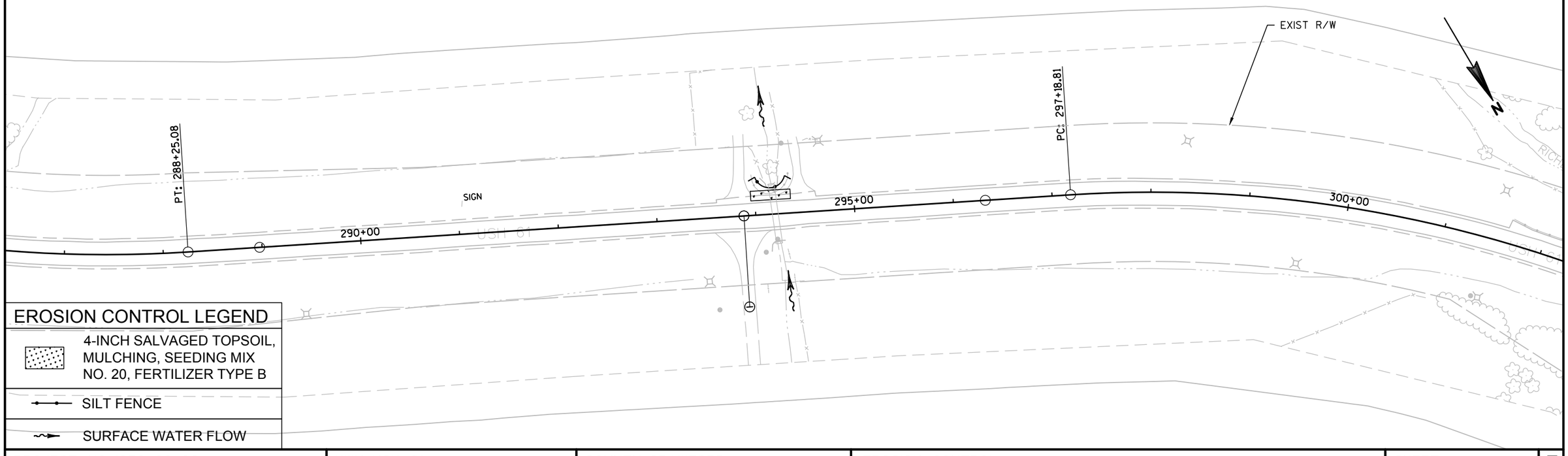
WISDOT/CADDS SHEET 44

2



EROSION CONTROL LEGEND

	4-INCH SALVAGED TOPSOIL, MULCHING, SEEDING MIX NO. 20, FERTILIZER TYPE B
	SILT FENCE
	SURFACE WATER FLOW

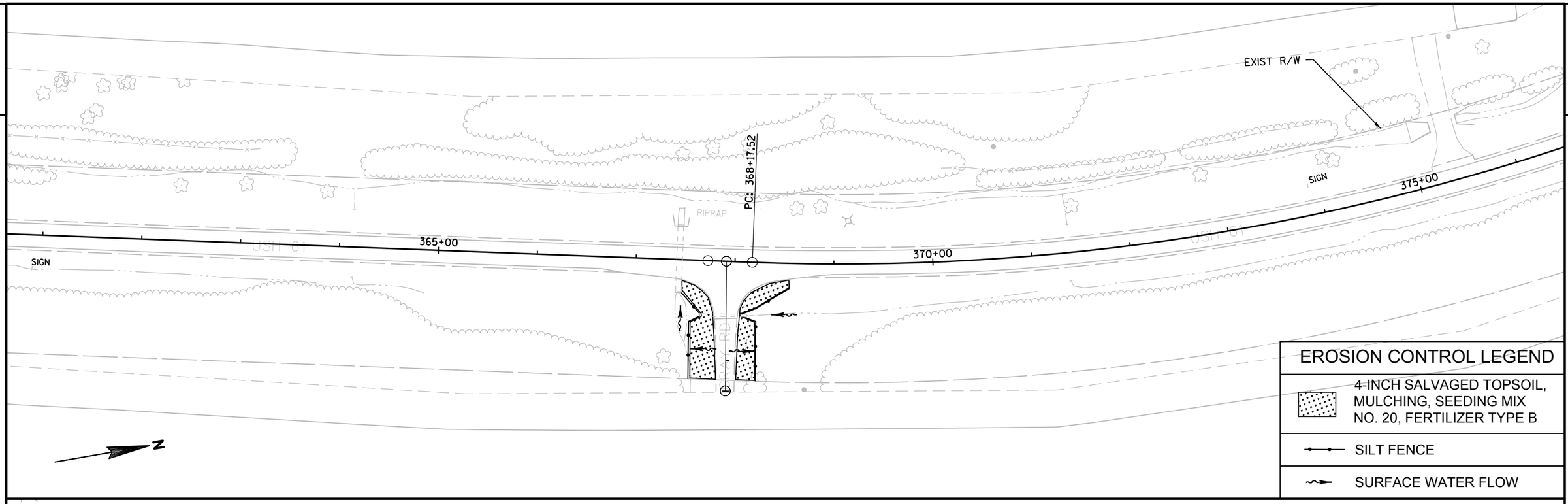


EROSION CONTROL LEGEND

	4-INCH SALVAGED TOPSOIL, MULCHING, SEEDING MIX NO. 20, FERTILIZER TYPE B
	SILT FENCE
	SURFACE WATER FLOW

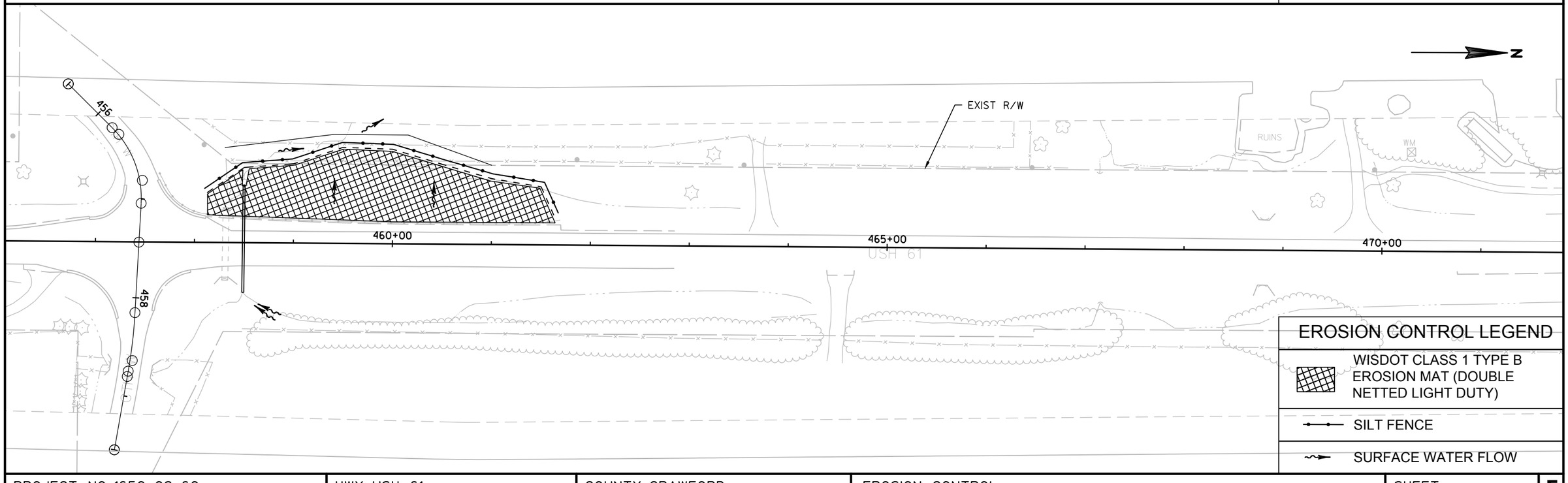
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	EROSION CONTROL	SHEET 29	E

2



EROSION CONTROL LEGEND

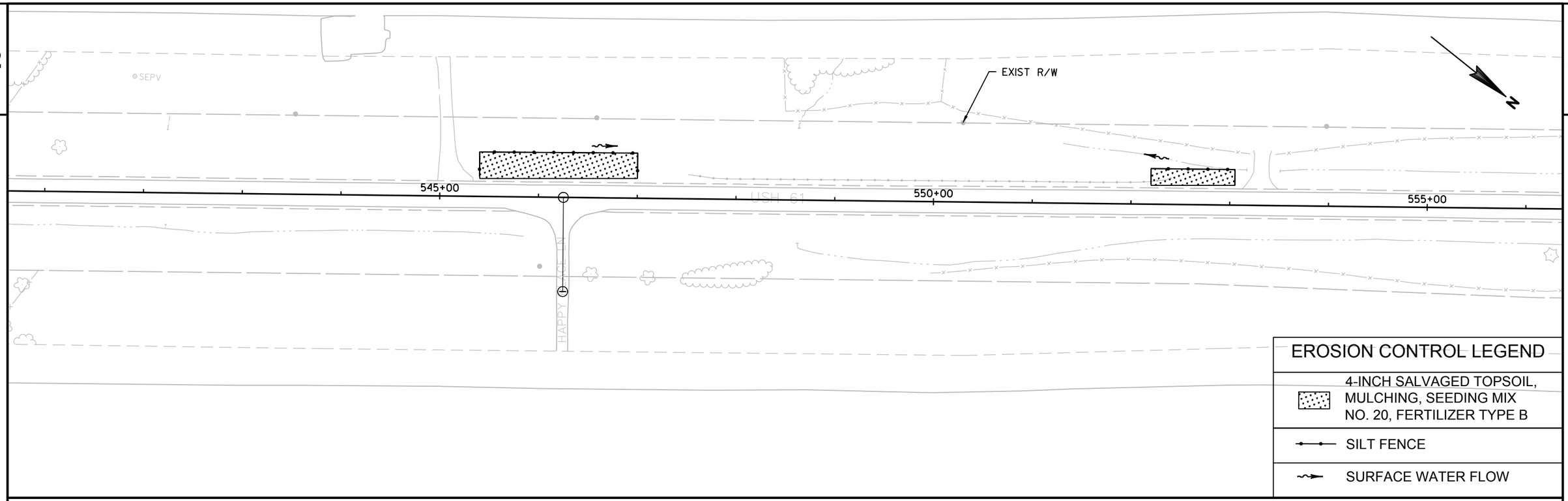
- 4-INCH SALVAGED TOPSOIL, MULCHING, SEEDING MIX NO. 20, FERTILIZER TYPE B
- SILT FENCE
- SURFACE WATER FLOW



EROSION CONTROL LEGEND

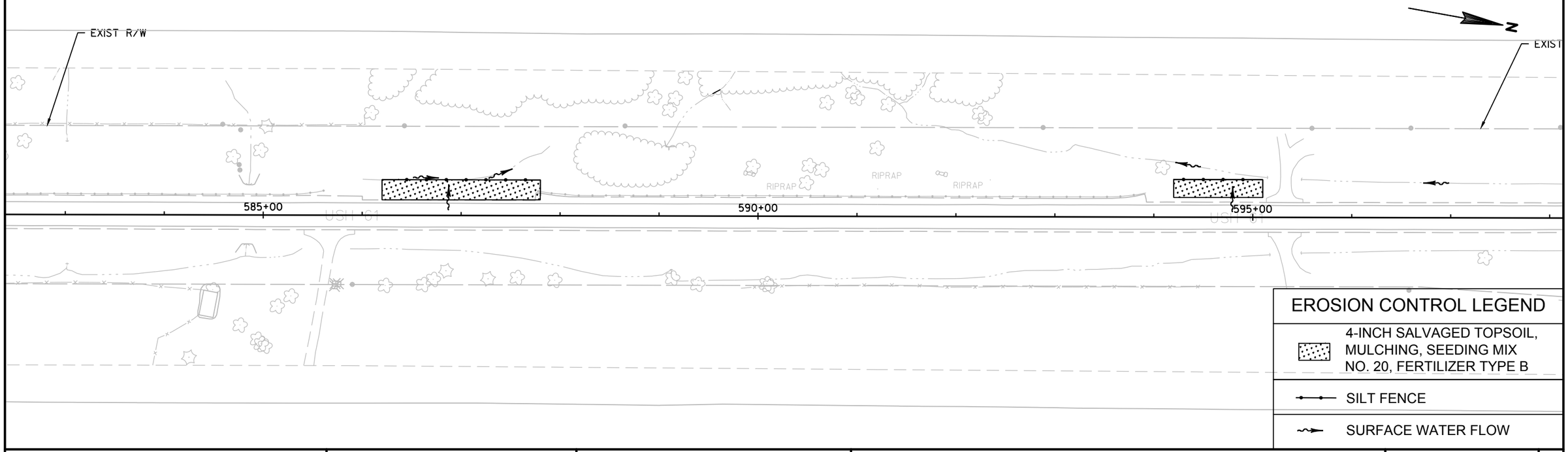
- WISDOT CLASS 1 TYPE B EROSION MAT (DOUBLE NETTED LIGHT DUTY)
- SILT FENCE
- SURFACE WATER FLOW

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	EROSION CONTROL	SHEET 30	E



EROSION CONTROL LEGEND

	4-INCH SALVAGED TOPSOIL, MULCHING, SEEDING MIX NO. 20, FERTILIZER TYPE B
	SILT FENCE
	SURFACE WATER FLOW



EROSION CONTROL LEGEND

	4-INCH SALVAGED TOPSOIL, MULCHING, SEEDING MIX NO. 20, FERTILIZER TYPE B
	SILT FENCE
	SURFACE WATER FLOW

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	EROSION CONTROL	SHEET 31	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\022001-EC 3.DWG
LAYOUT NAME - 022001-EC 3 - 0502 (07)_PN

PLOT DATE : 1/31/2017 5:28 PM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

2

EASTER ROCK LN

BEGIN CONSTRUCTION
1650-02-60
STA 14+25'STH60'

15+00'STH60'

20+00'STH60'

EP: 20+00.00'STH60'

5+00'STH60EB'

BP: 0+00.00'61SB'

1+00'61SB'

EP: 1+23.54'61SB'

10+00'STH60EB

5+00

PT: 5+52.27

6+75.00 MATCH LINE

Soldiers Grove
Gotham
Boscobel
D1-3
96"X36"

Soldiers Grove
Gotham
Boscobel
REMOVE

Grant Co
Wisconsin
River
I2-2 MOD
60"X36"

Grant Co
REMOVE

Wauzeka
Boscobel
D1-2
66"X30"

Boscobel
Wauzeka
REMOVE

FOOD
LODGING
SIS - TO BE MOVED
BY OTHERS

21+50.00 MATCH LINE

10+00

15+00

20+00

USH 61/STH 60

PE

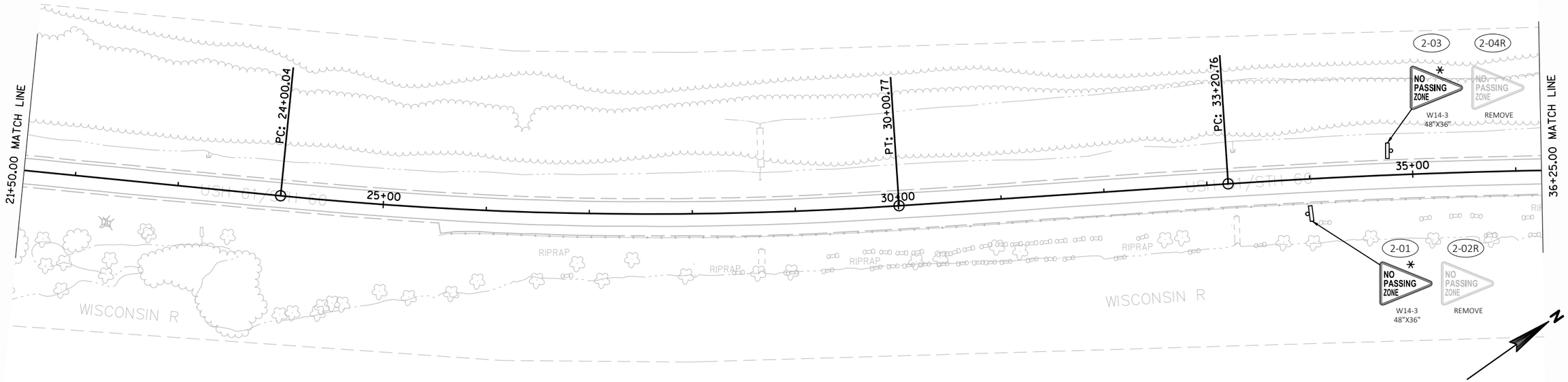
PE

* Final locations of W14-3 No Passing Zone signs to be determined after Locating No Passing Zones is completed.

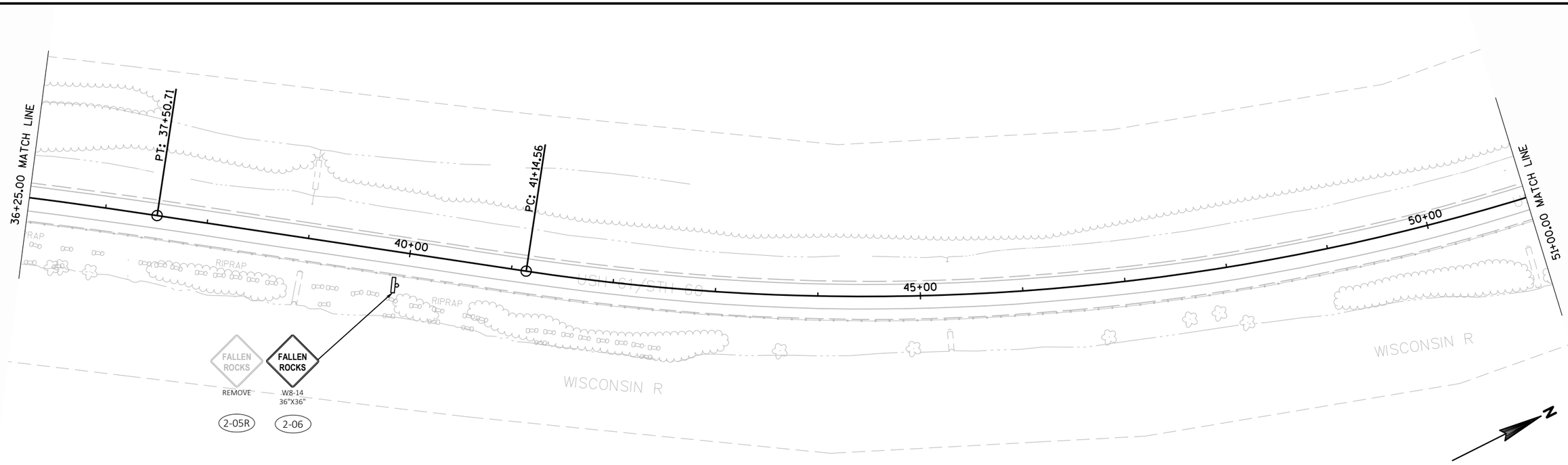
** Replace signs on existing supports.

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 32	E

2



* Final locations of W14-3 No Passing Zone signs to be determined after Locating No Passing Zones is completed.



PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 33	E

2

51+00.00 MATCH LINE

55+00

60+00

65+75.00 MATCH LINE

USH 61/STH 60

BP: 0+00.00'60E'

EP: 2+03.48'MVS'

2+00'MVS

2+00'MVS

1+00'60E

2+00'60E

EP: 2+41.10'60E'

N

WEST SOUTH 60 61 — REMOVE — 3-11R

WEST SOUTH 60 61 — J4-3 72"X36" — 3-12

SCENIC BYWAY — REMOVE — 3-13R

SPEED LIMIT 55 — REMOVE — 3-03R

SPEED LIMIT 55 — R2-1 24"X30" — 3-04

WATCH FOR FALLEN ROCKS — REMOVE — 3-09R

FALLEN ROCKS — W8-14 36"X36" — 3-10

SOUTH WEST NORTH 61 60 61 — REMOVE — 3-25R

SOUTH WEST NORTH 61 60 61 — J3-3 72"X57" — 3-31R

EAST WEST SOUTH 60 60 61 — REMOVE — 3-26

EAST 60 — J3-1 24"X57" — 3-32

SOUTH WEST 61 60 — REMOVE — 3-17R

SOUTH WEST 61 60 — J3-2 48"X57" — 3-18

STOP — REMOVE — 3-19R

STOP — R1-1 30"X30" — 3-20

Marietta Valley Rd — REMOVE — 3-01R

NORTH EAST 61 60 — J3-2 48"X57" — 3-02

Marietta Valley Rd — D1-1 114"X15" — 3-05

NORTH EAST 61 60 — REMOVE — 3-06R

Soldiers Grove / Gotham — D1-2 96"X30" — 3-07

Soldiers Grove / La Crosse / Gotham — REMOVE — 3-08R

NORTH EAST 61 60 — REMOVE — 3-14R

EAST 60 — J3-2 48"X57" — 3-15

SCENIC BYWAY — REMOVE — 3-16R

STOP — REMOVE — 3-21R

STOP — R1-1 36"X36" — 3-22

W12-1D 24"X24" — 3-24

REMOVE — 3-23R

DO NOT ENTER — R5-1 30"X30" — 3-29

DO NOT ENTER — REMOVE — 3-30R

STOP — R1-1 36"X36" — 3-27

STOP — REMOVE — 3-28R

BOSCOBEL WAUZEKA / GOTHAM — D1-3 66"X36" — 3-36

GOTHAM / BOSCOBEL WAUZEKA — REMOVE — 3-38R

MARIETTA VALLEY RD — D1-1 114"X15" — 3-39

MARIETTA VALLEY RD — REMOVE — 3-41R

EAST WEST SOUTH 60 60 61 — J3-3 72"X57" — 3-43

JCT 60 — J1-1 24"X39" — 3-44

EAST WEST SOUTH 60 60 61 — REMOVE — 3-45R

JCT 60 — REMOVE — 3-56R

BP: 0+00.00'MVS'

PT: 69+21.89

FE

FE

PE

PE

70+00

75+00

80+00

65+75.00 MATCH LINE

80+50.00 MATCH LINE

USH 61

USH 61

RICHLAND CR

NORTH NORTH 61 61 — REMOVE — J4-1 24"X36" — 3-33R — 3-34

Soldiers Grove 19 / La Crosse 66 — REMOVE — 3-35R

SPEED LIMIT 55 — R2-1 24"X30" — 3-37

Soldiers Grove 19 / La Crosse 67 — D2-2 102"X24" — 3-40

SPEED LIMIT 55 — REMOVE — 3-42R

NO PASSING ZONE — REMOVE — 3-46R

NO PASSING ZONE — W14-3 48"X36" — 3-47

REMOVE — W5-52R 12"X36" — 3-48R — 3-49

REMOVE — W5-52L 12"X36" — 3-50R — 3-51

REMOVE — W5-52L 12"X36" — 3-52R — 3-53

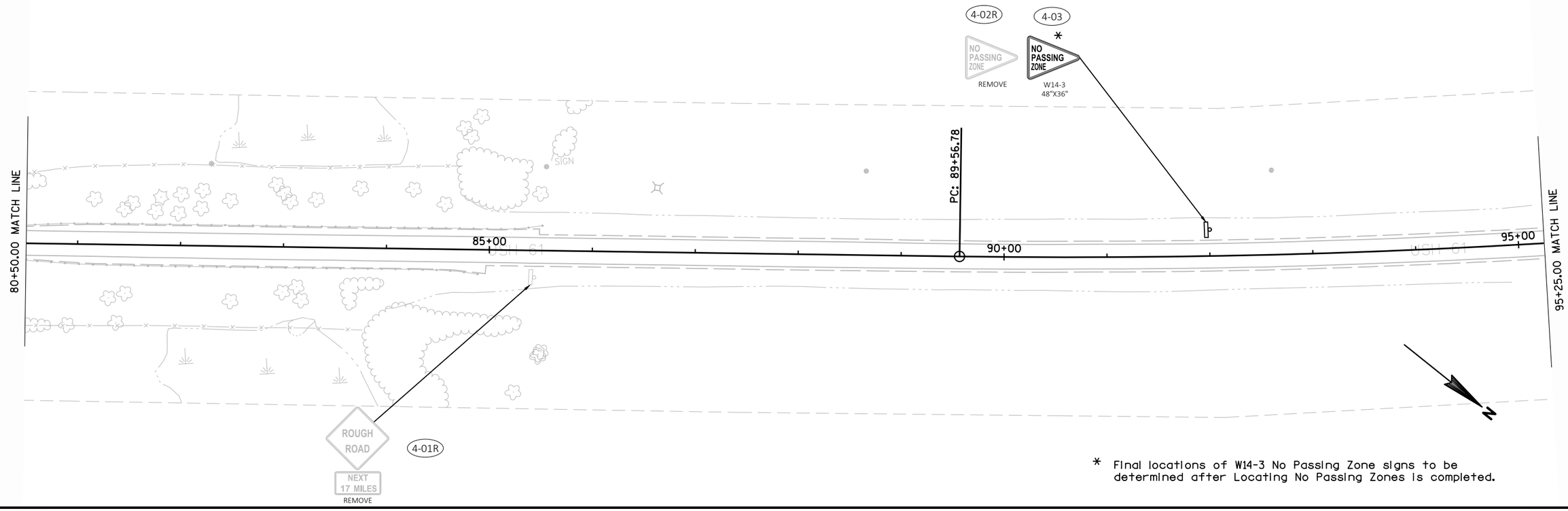
REMOVE — W5-52R 12"X36" — 3-54R — 3-55

* Final locations of W14-3 No Passing Zone signs to be determined after Locating No Passing Zones is completed.

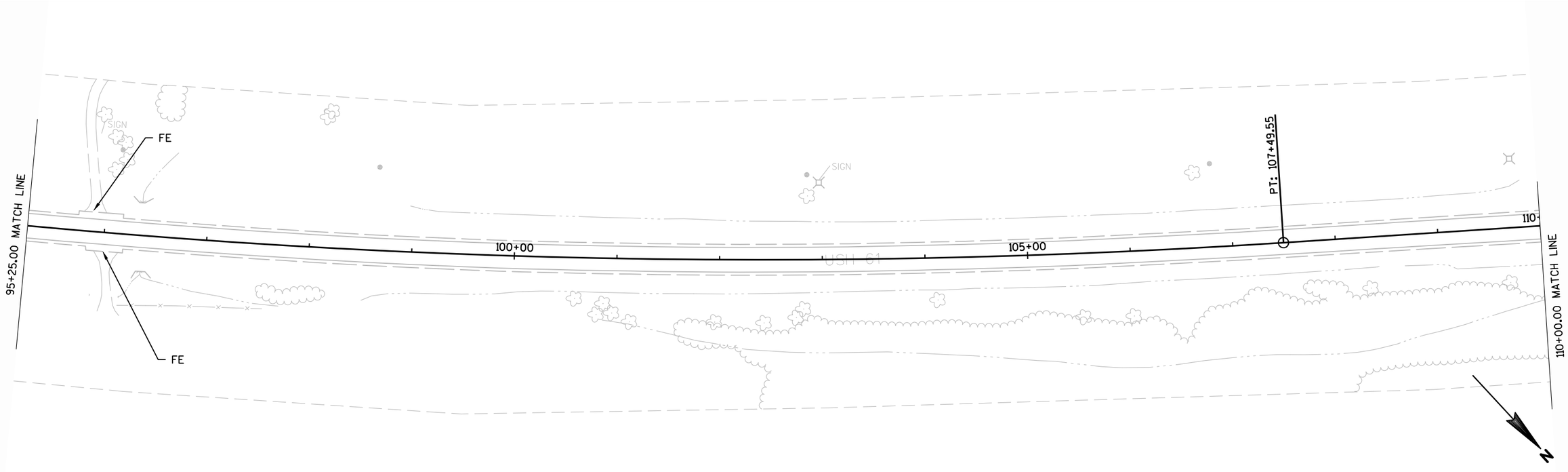
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 34	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\023201-PS.DWG
LAYOUT NAME - 023201-PS - 0502(05)_PN
PLOT DATE : 1/31/2017 4:02 PM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

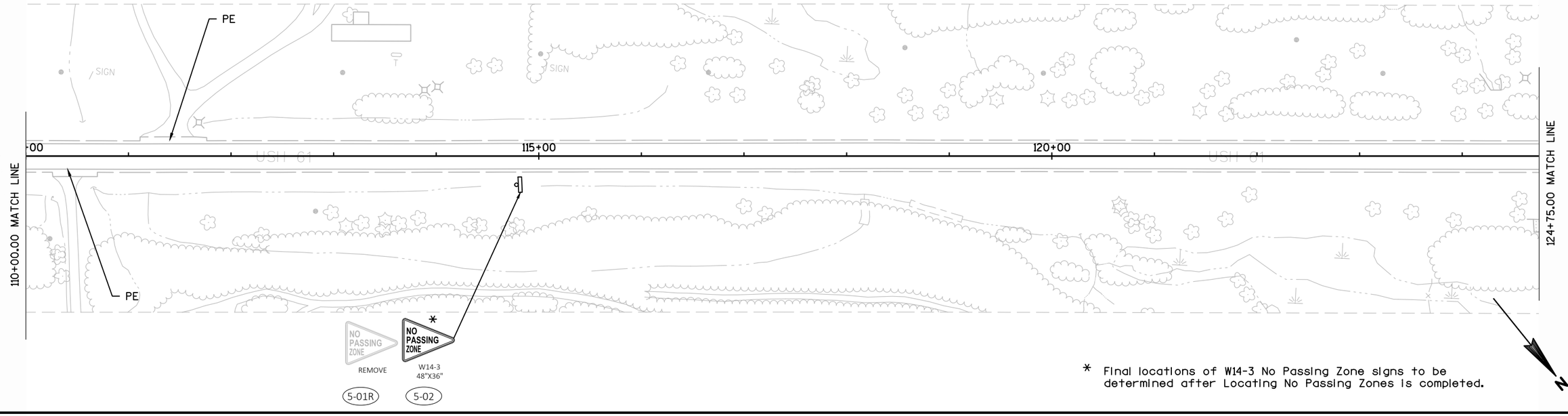


* Final locations of W14-3 No Passing Zone signs to be determined after Locating No Passing Zones is completed.

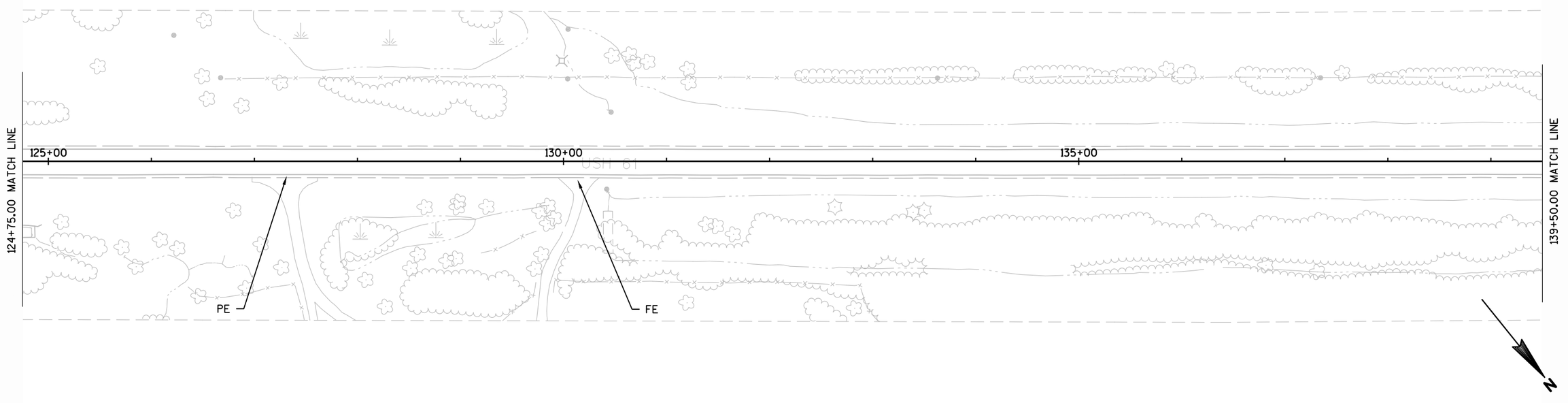


PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 35	E

2

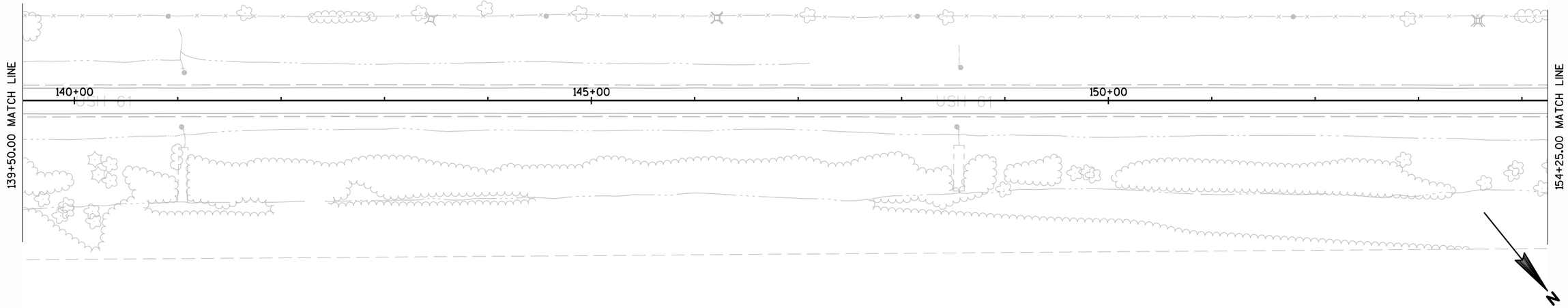


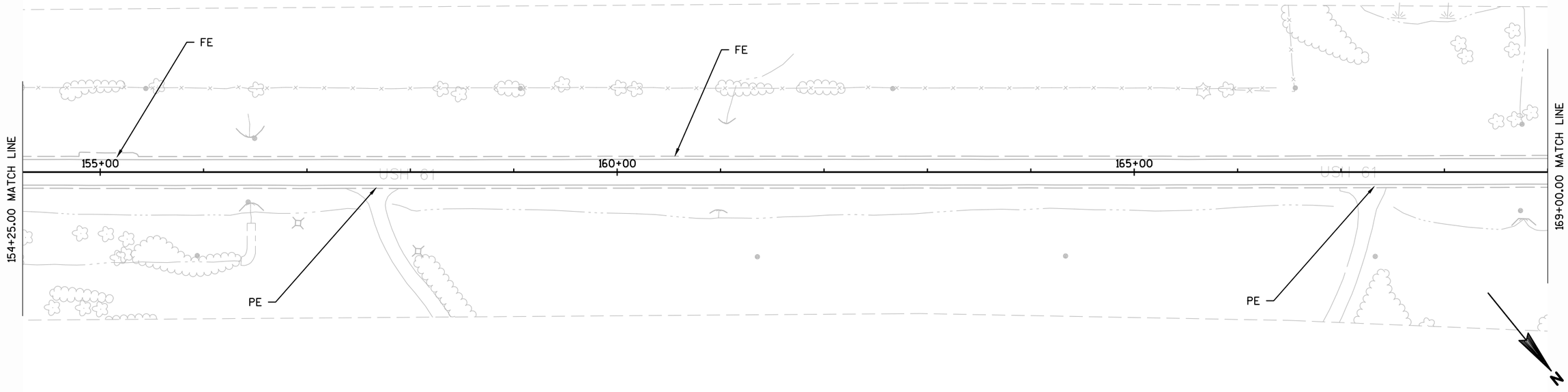
* Final locations of W14-3 No Passing Zone signs to be determined after Locating No Passing Zones is completed.



PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 36	E

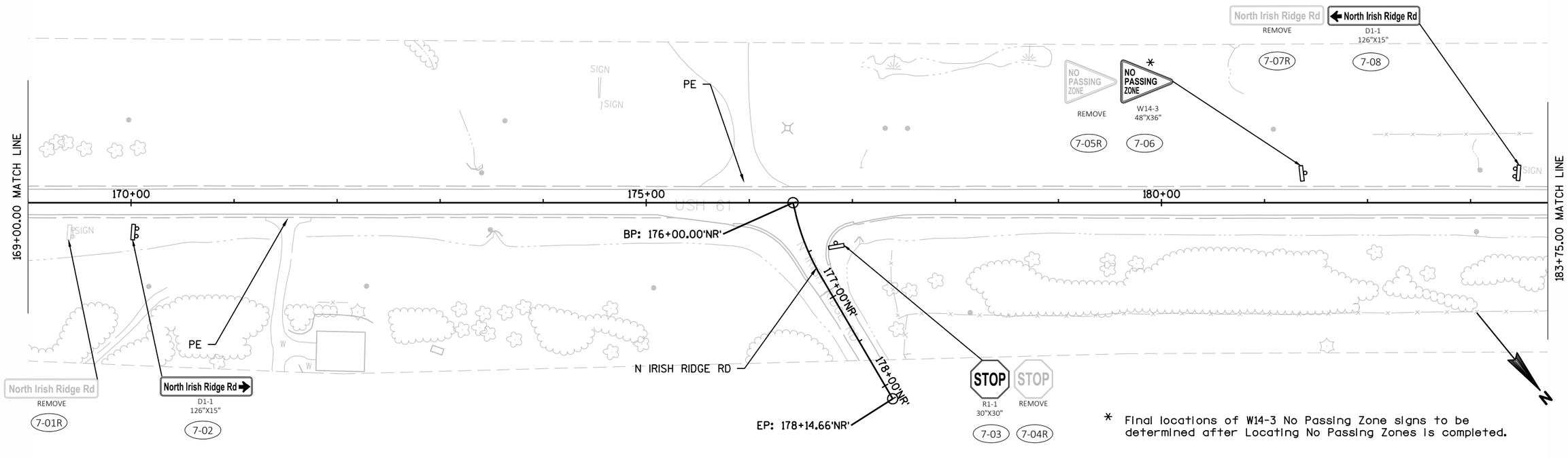
2

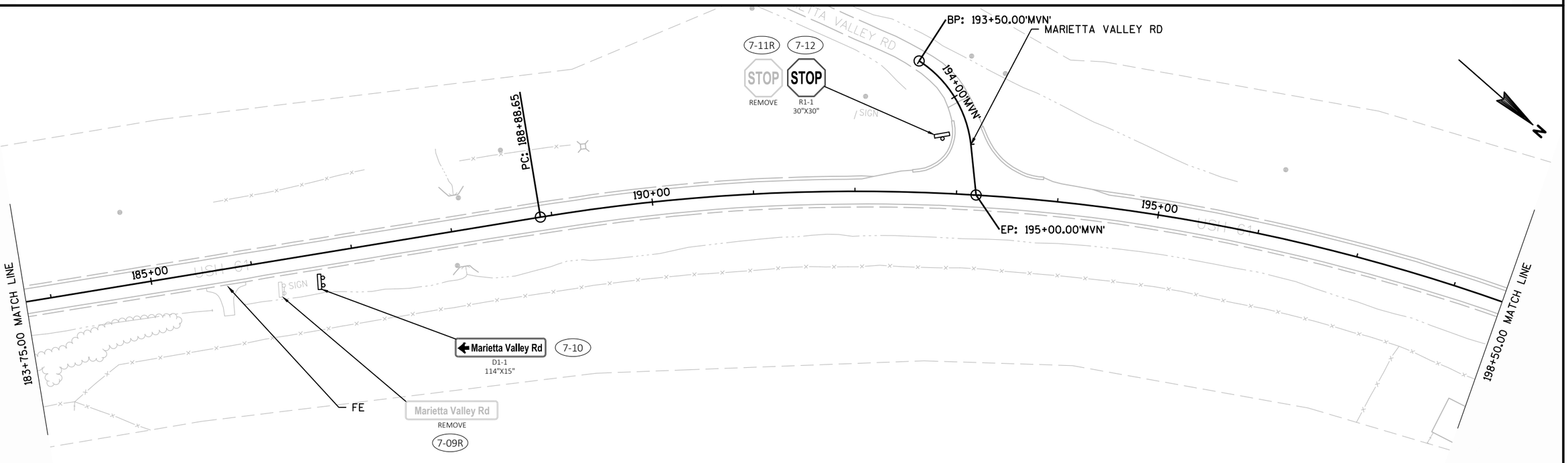




PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 37	E

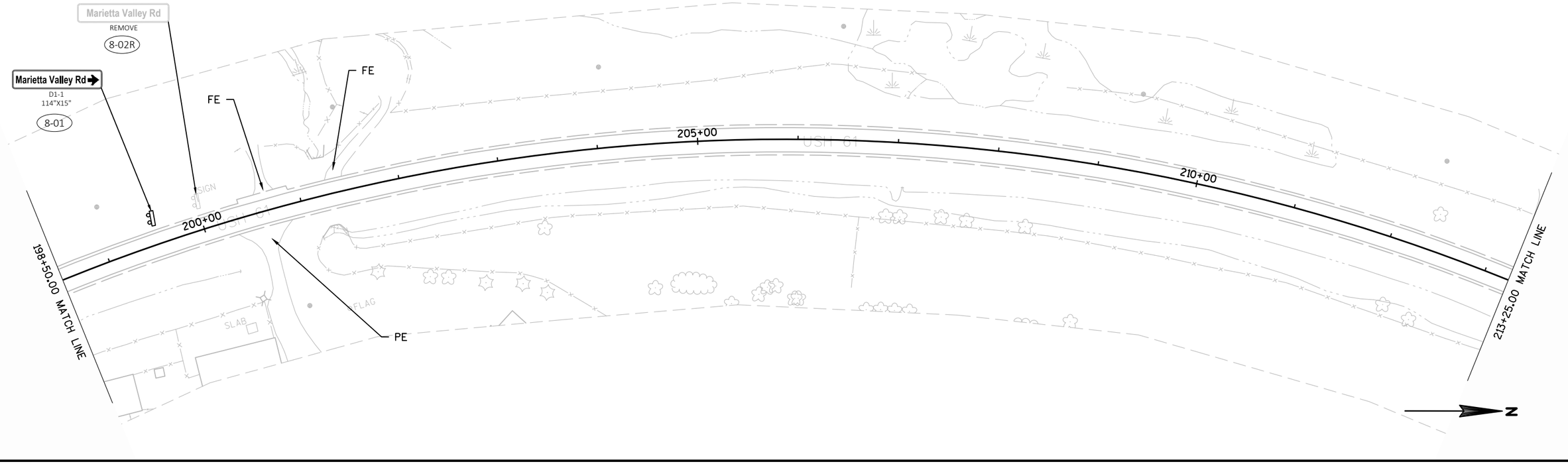
2

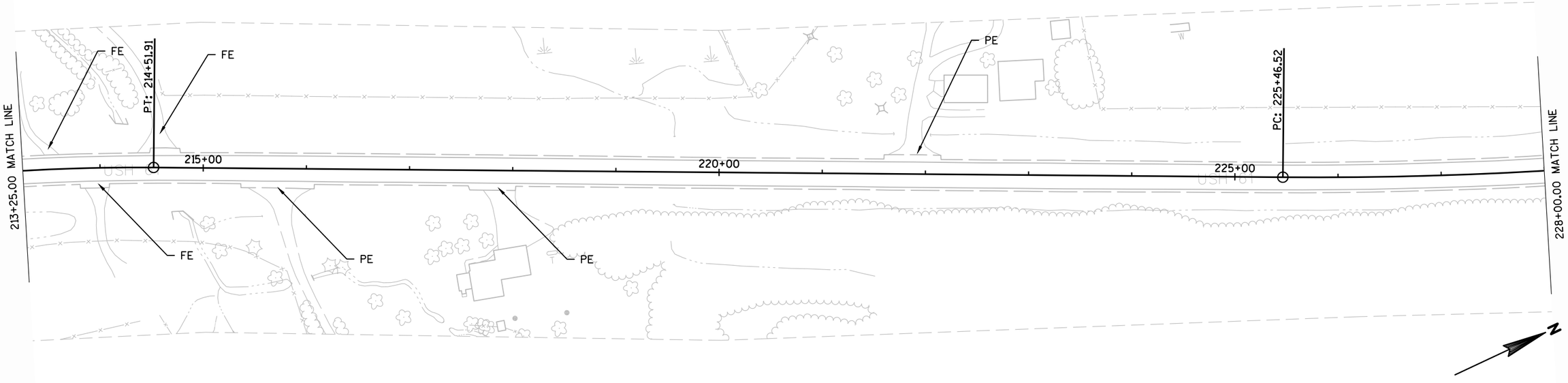




PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 38	E

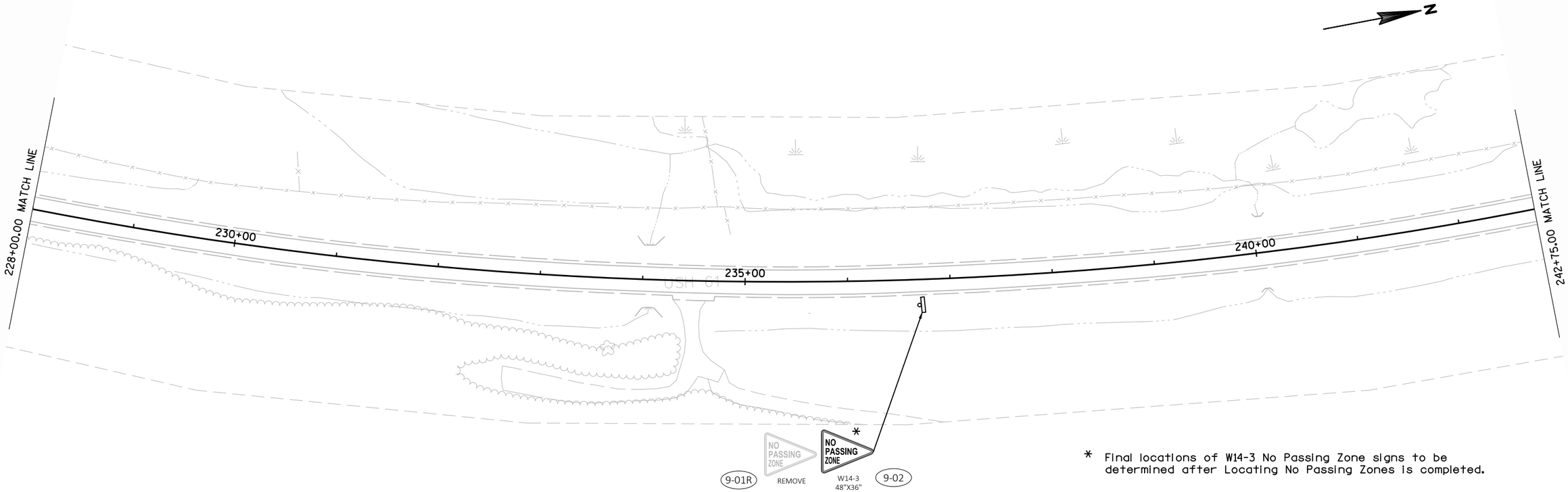
2



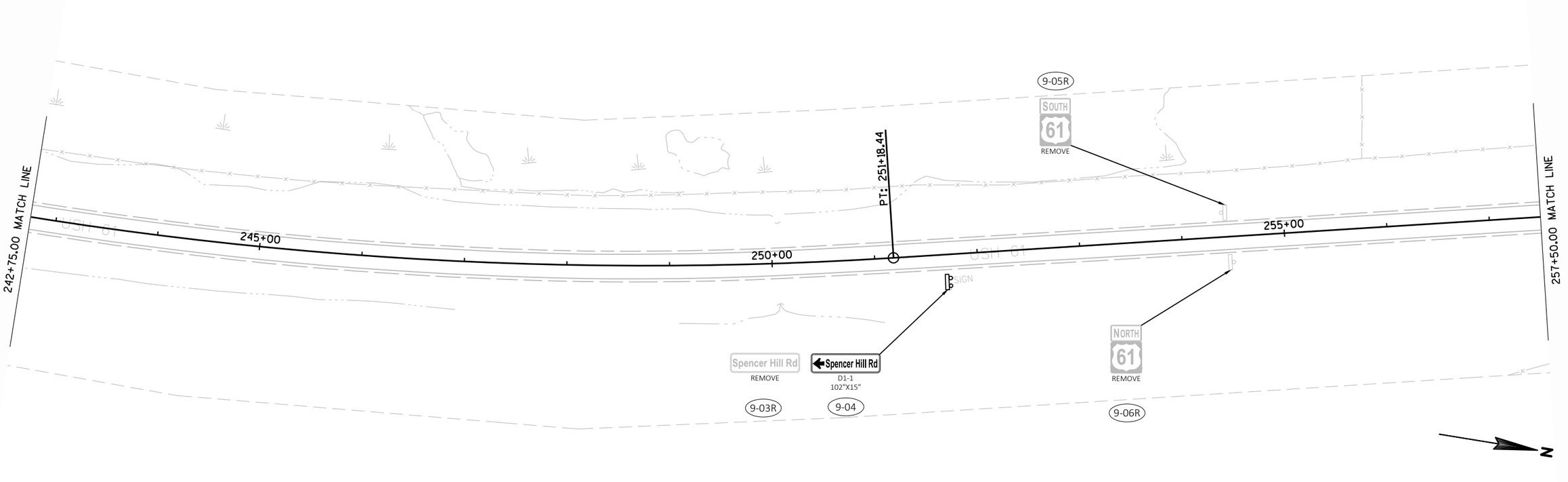


PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 39	E

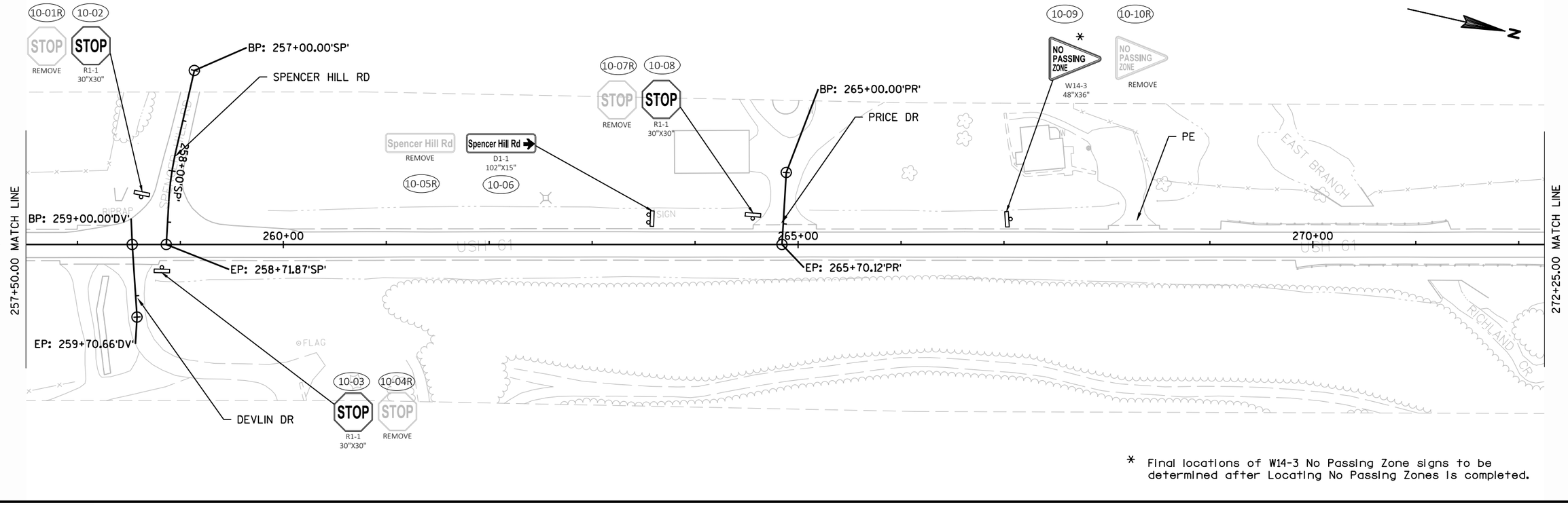
2



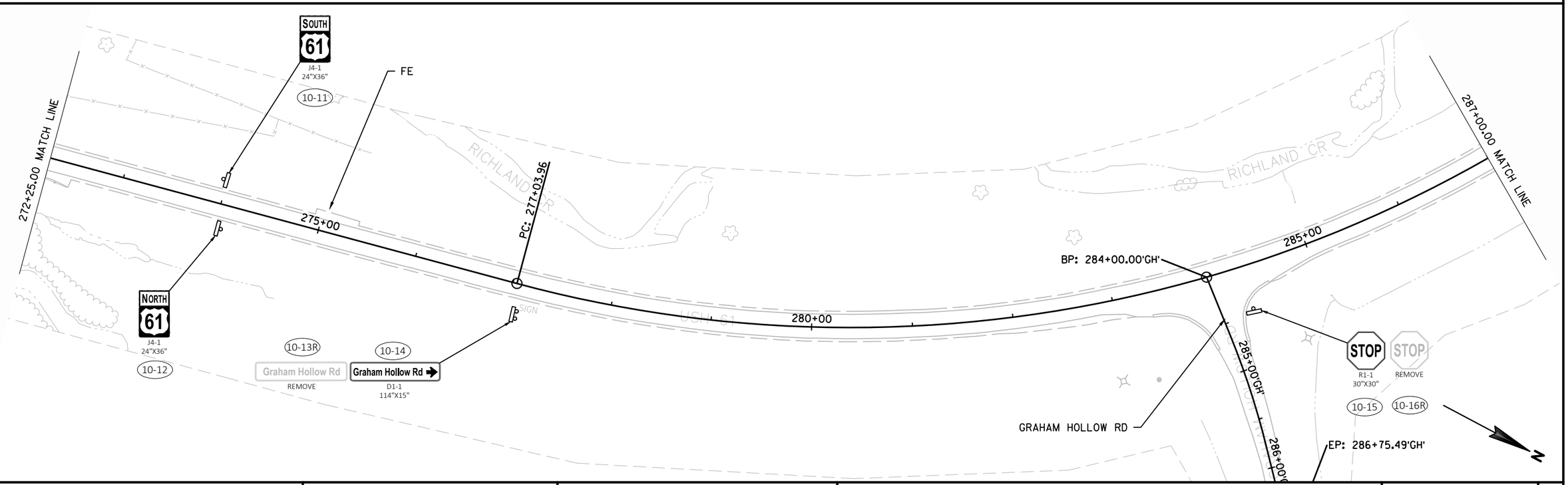
* Final locations of W14-3 No Passing Zone signs to be determined after Locating No Passing Zones is completed.



PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 40	E

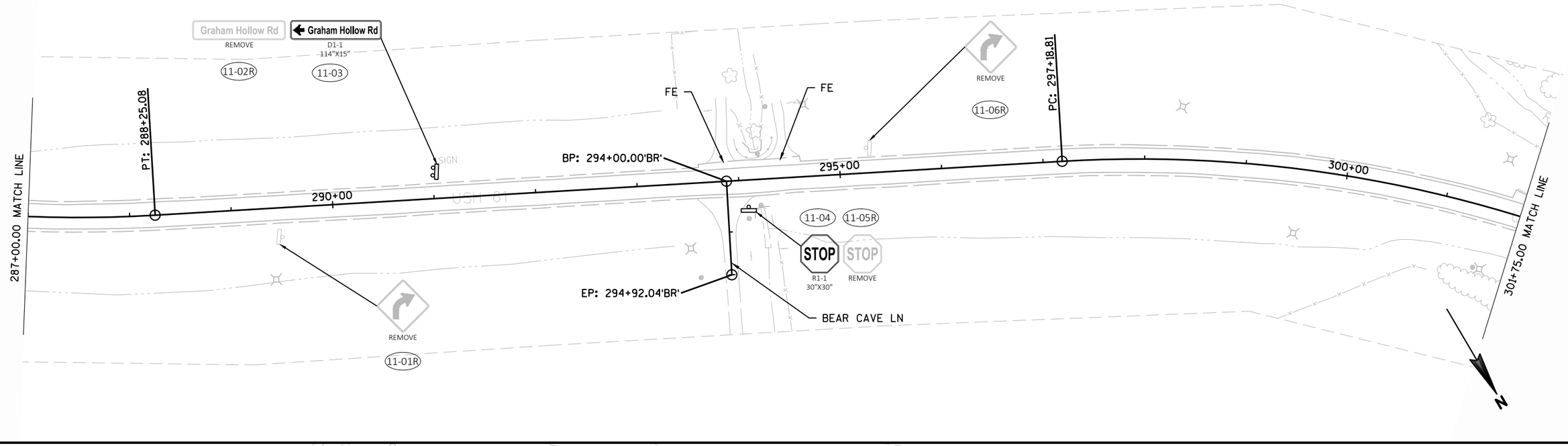


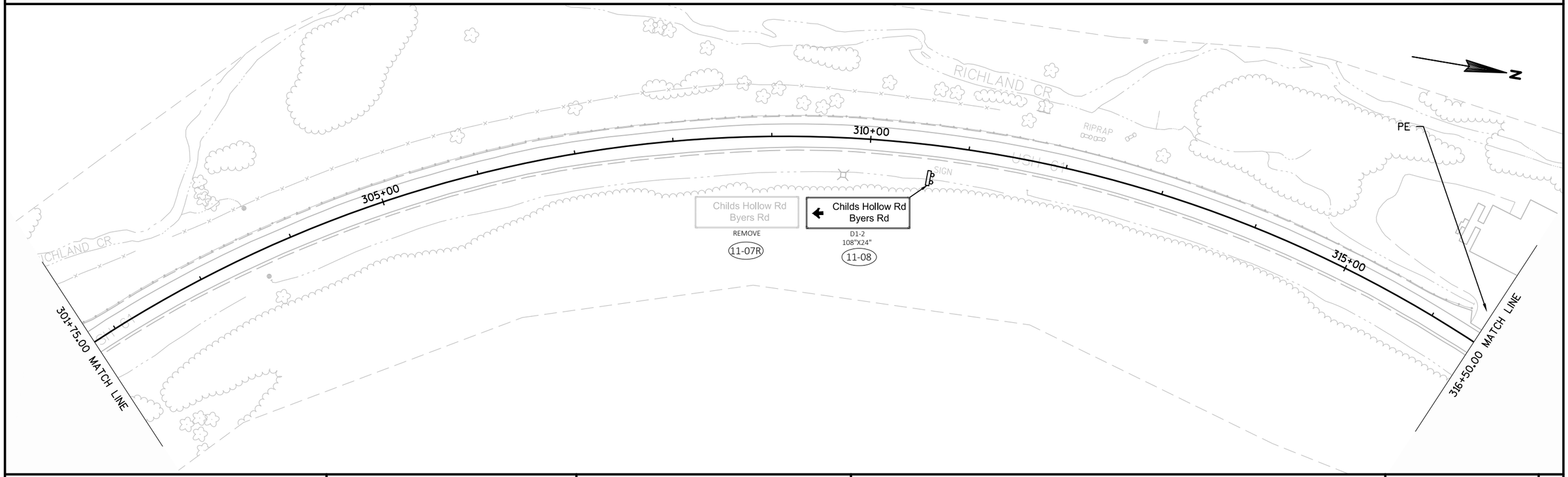
* Final locations of W14-3 No Passing Zone signs to be determined after Locating No Passing Zones is completed.



PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 41	E

2

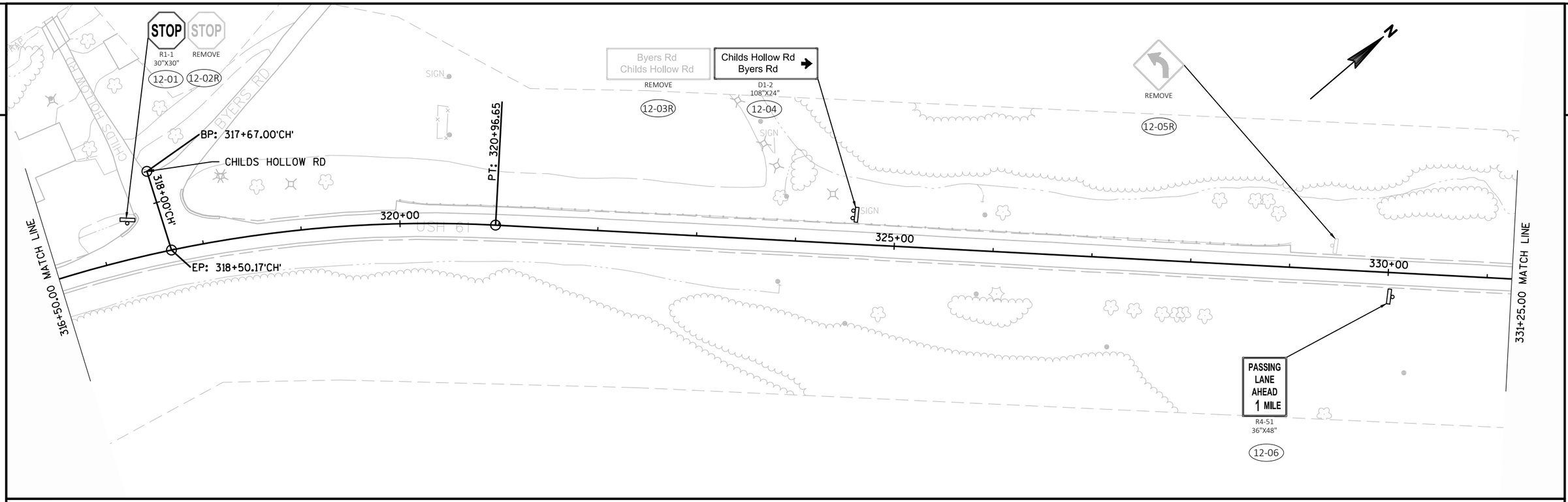


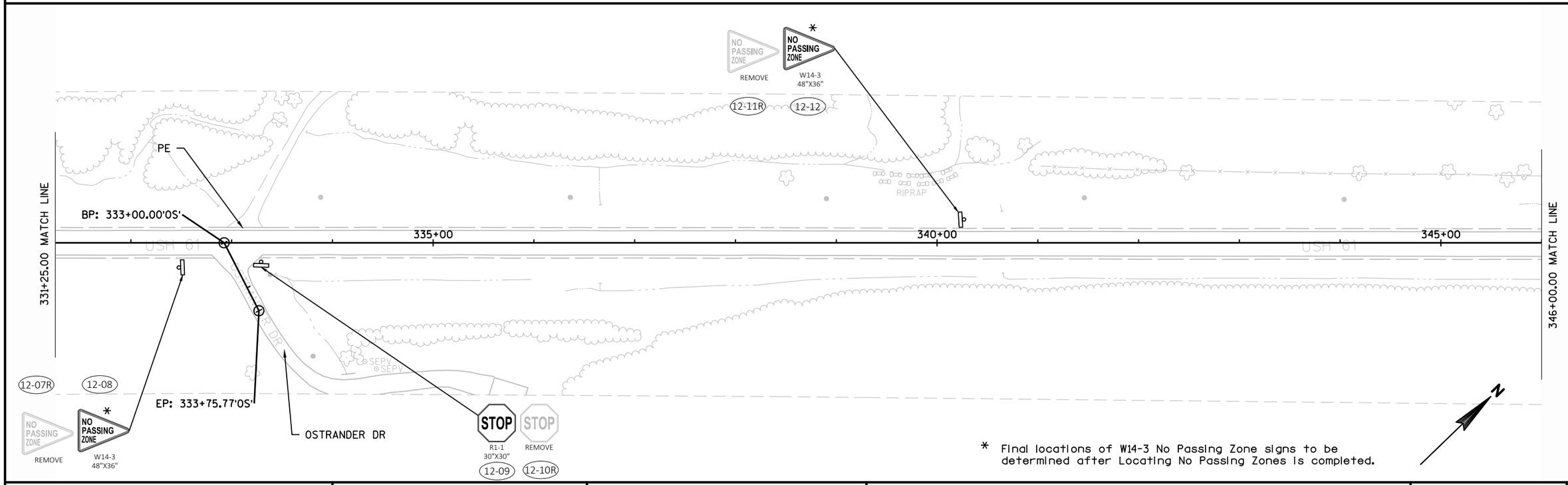


PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 42	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\023201-PS.DWG
LAYOUT NAME - 023201-PS - 0502(21)_PN

PLOT DATE : 1/31/2017 4:05 PM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:100 FT

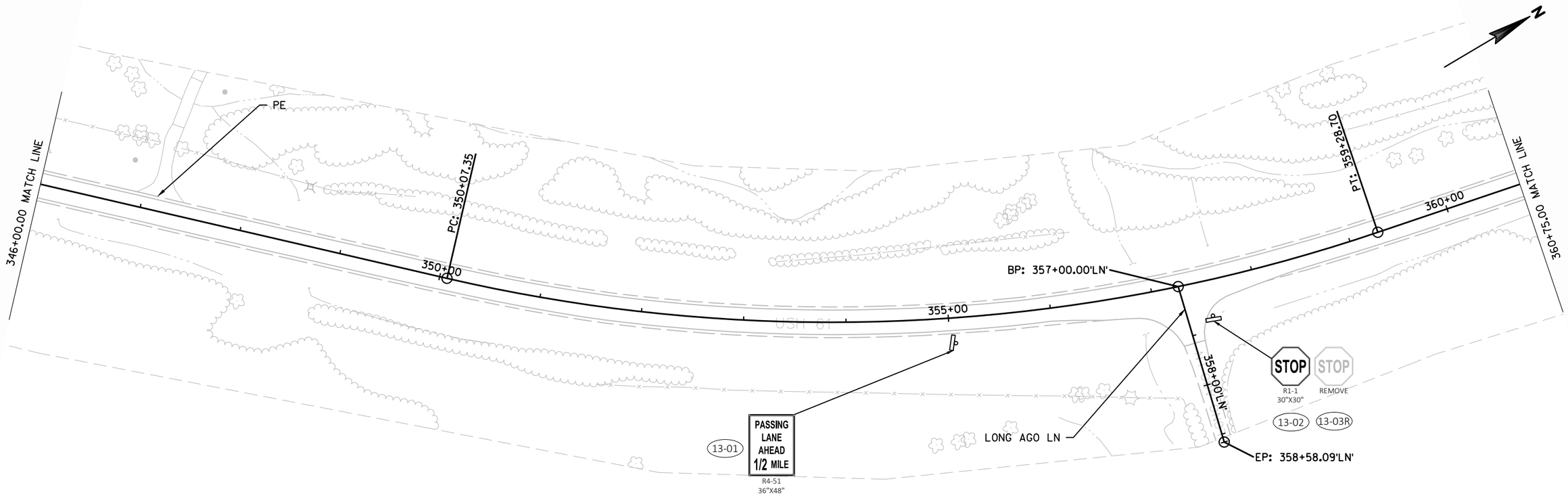


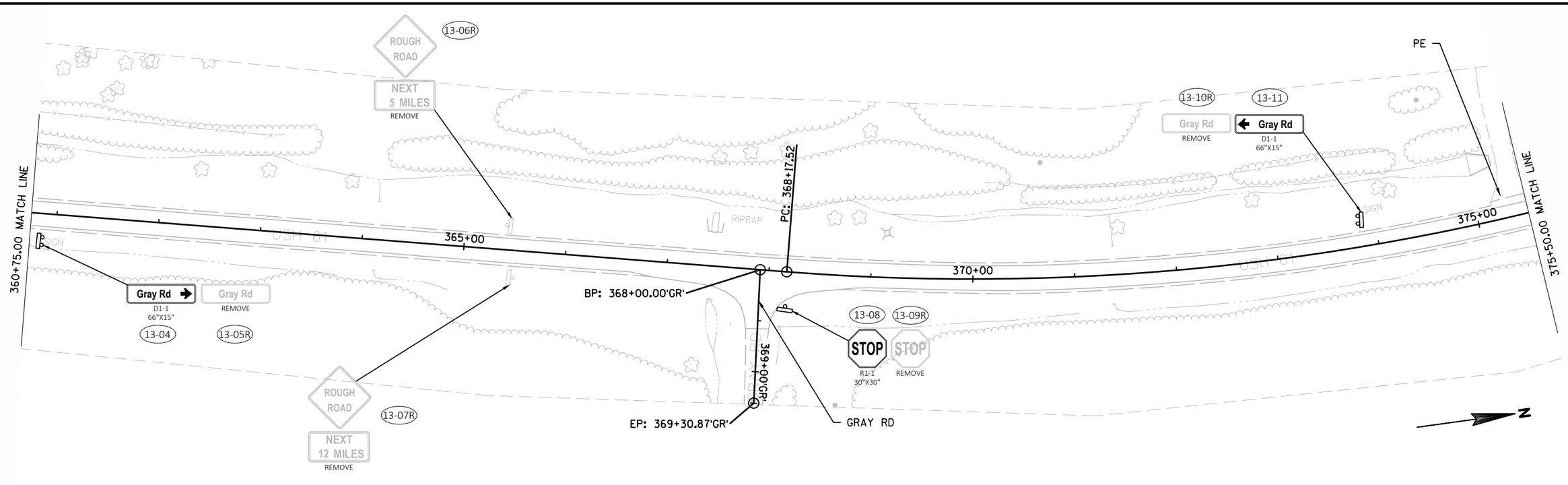


PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 43	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\023201-PS.DWG
LAYOUT NAME - 023201-PS - 0502(23)_PN
PLOT DATE : 1/31/2017 4:06 PM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

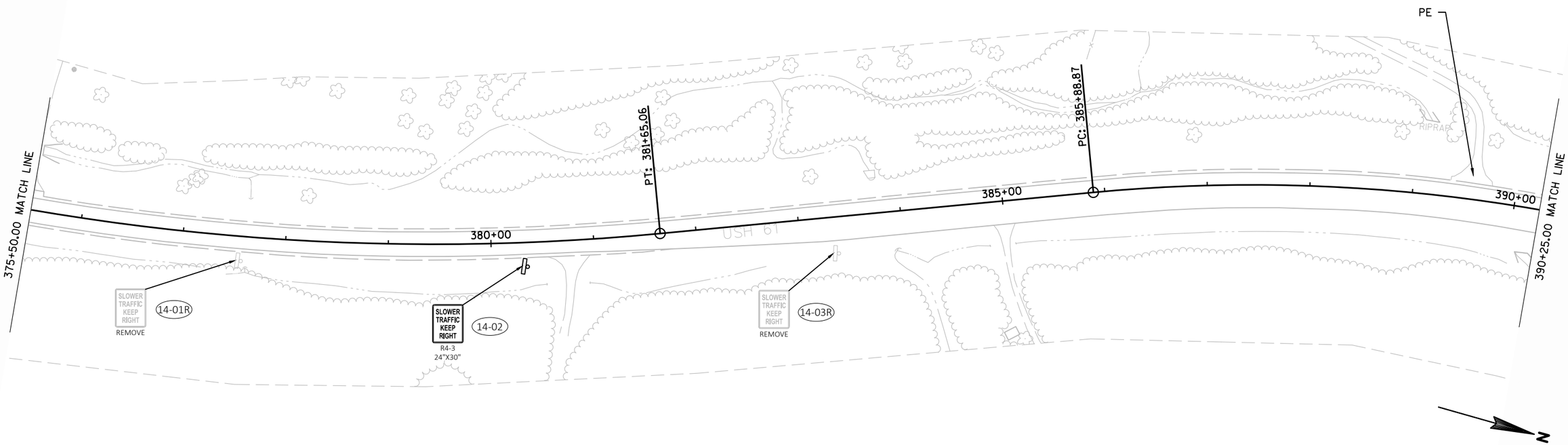




PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 44	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\023201-PS.DWG
LAYOUT NAME - 023201-PS - 0502(25)_PN
PLOT DATE : 1/31/2017 4:06 PM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

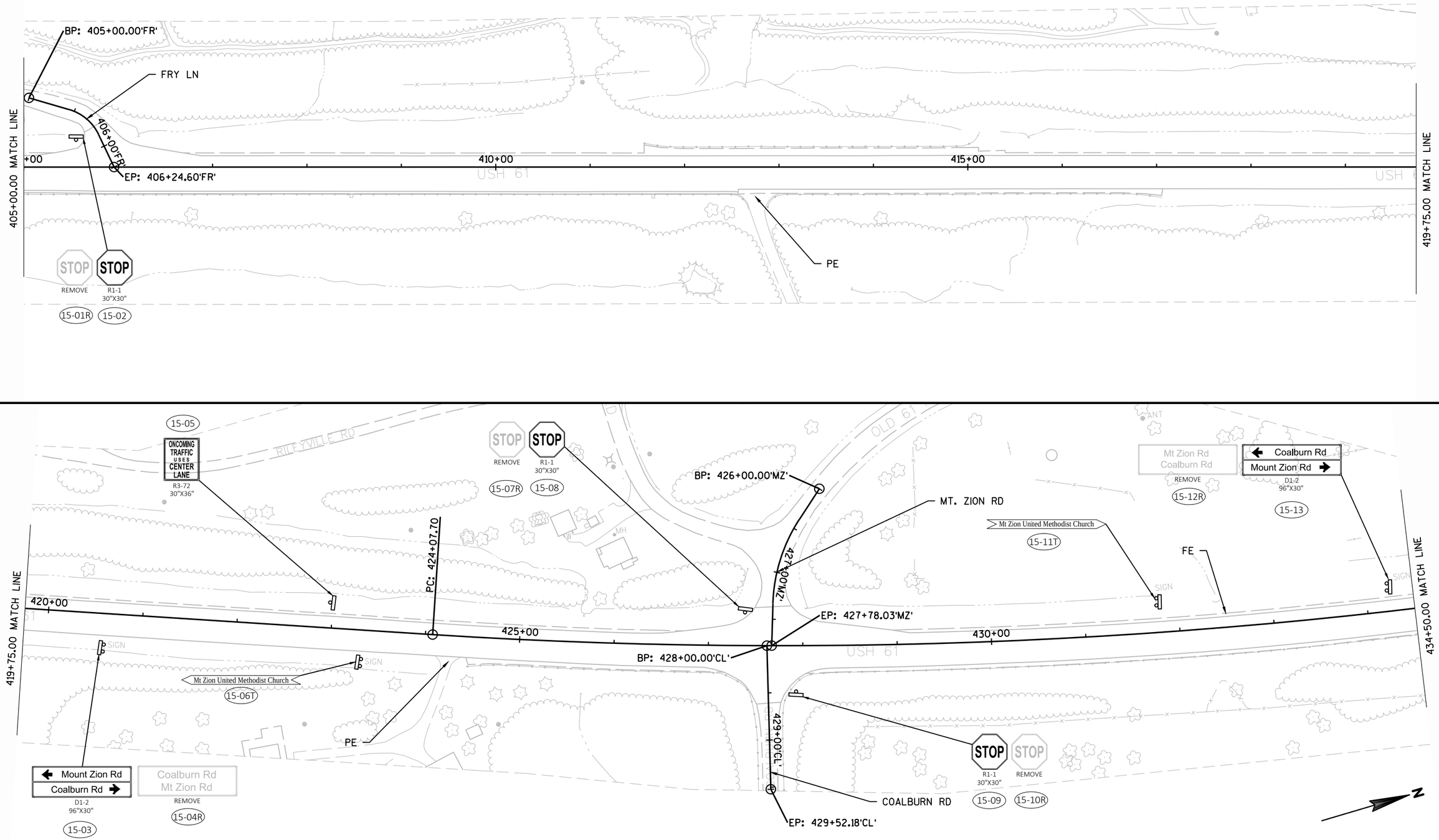




PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 45	E

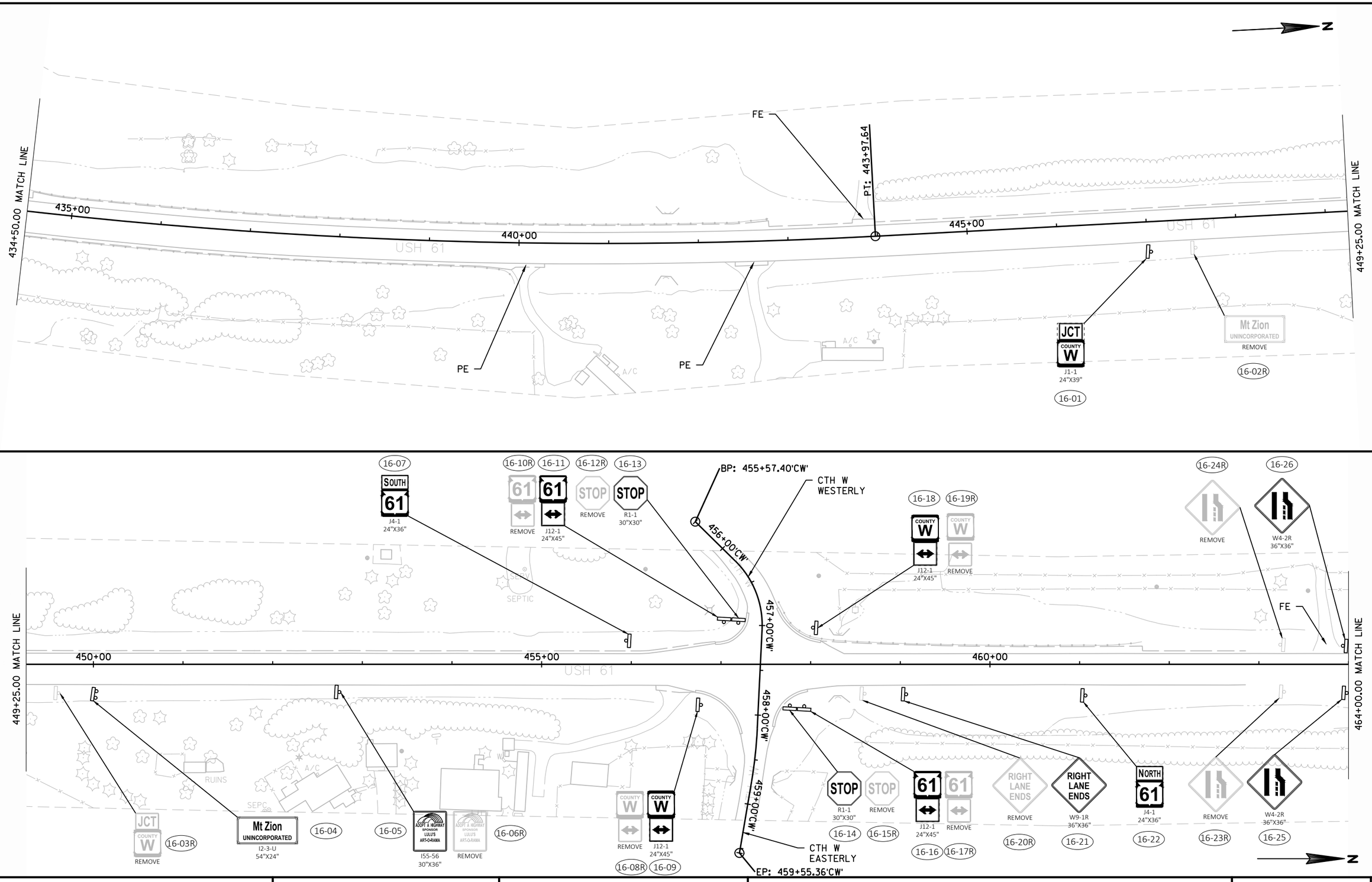
FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\023201-PS.DWG
LAYOUT NAME - 023201-PS - 0502(27)_PN
PLOT DATE : 1/31/2017 4:06 PM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

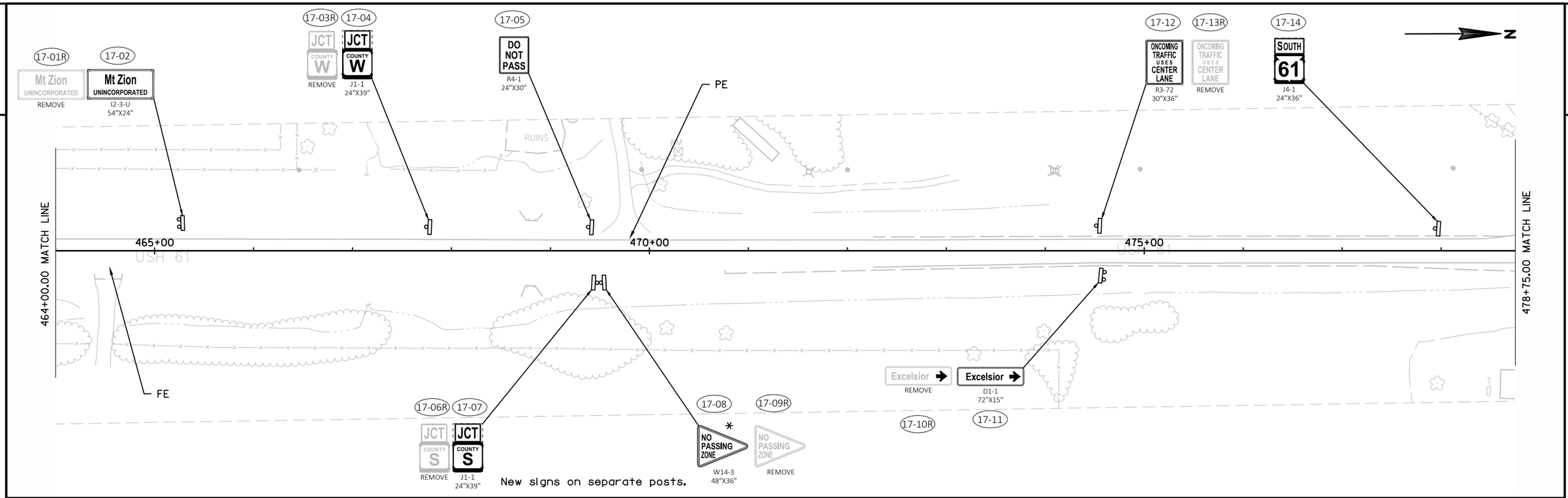


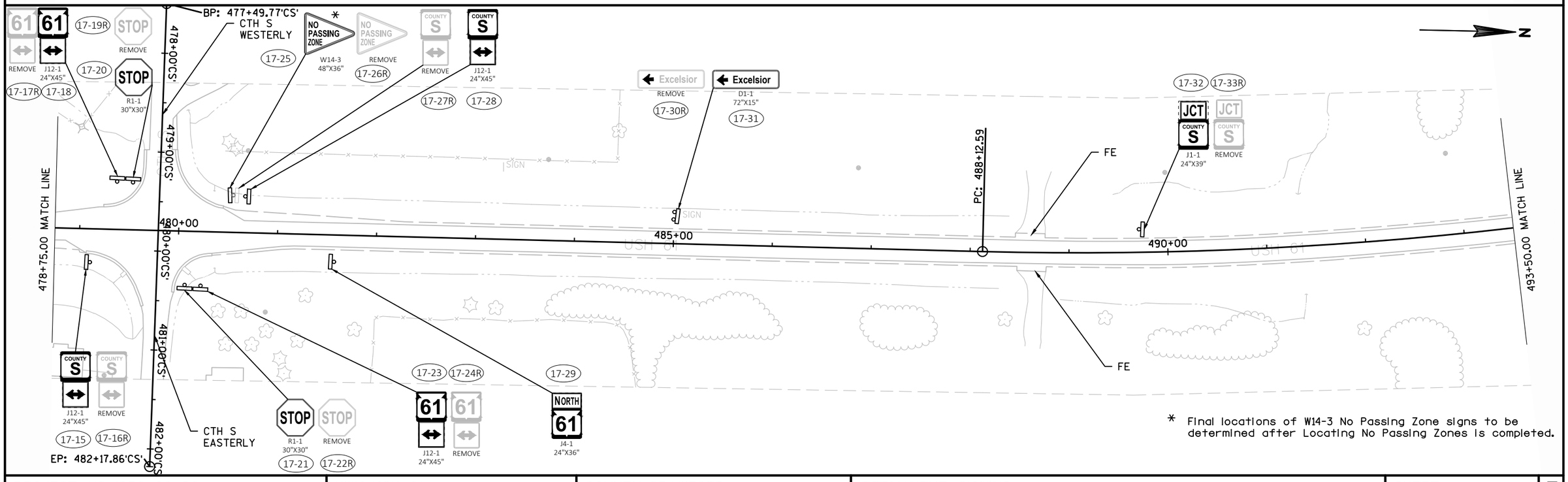
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 46	E

2



PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 47	E

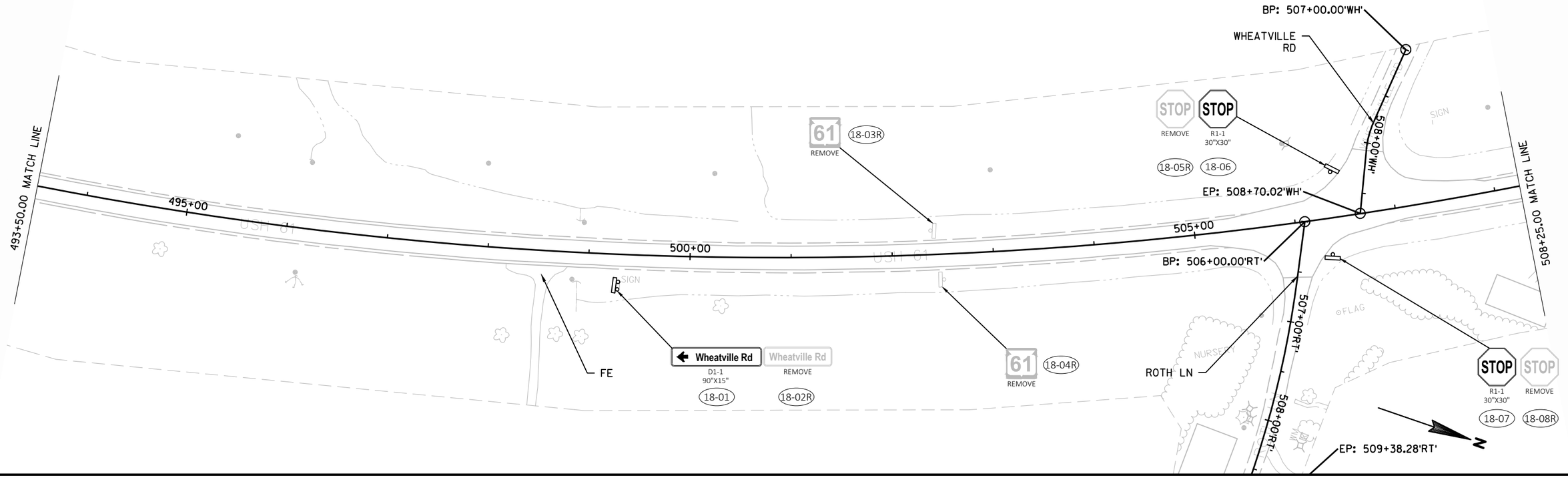


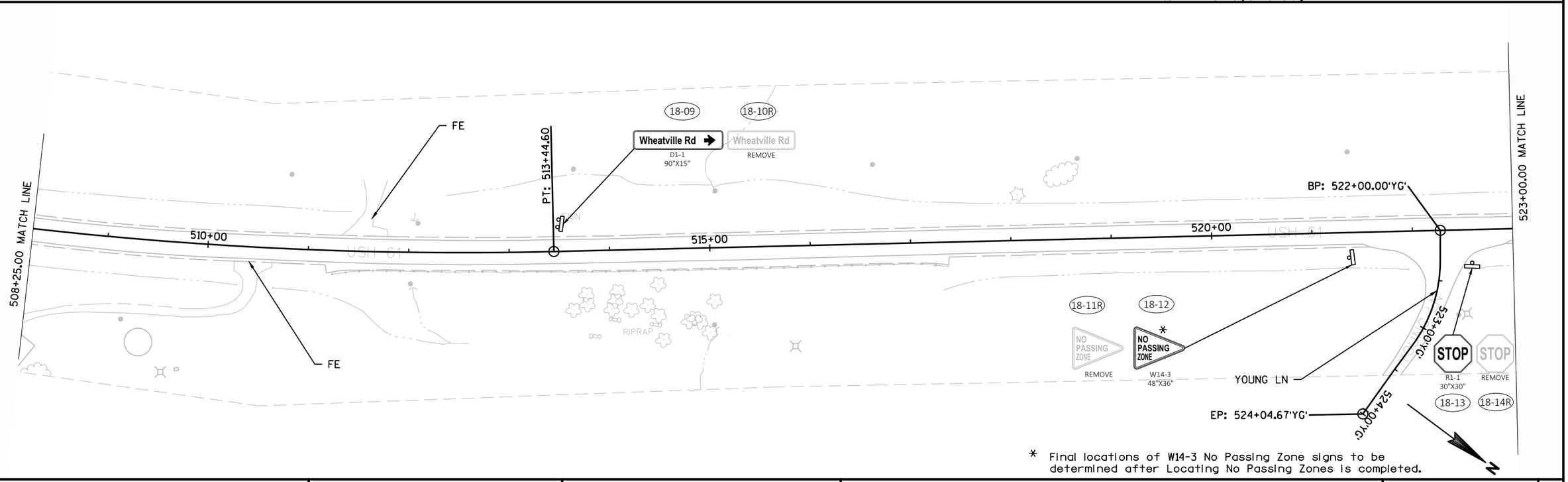


* Final locations of W14-3 No Passing Zone signs to be determined after Locating No Passing Zones is completed.

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 48	E

2

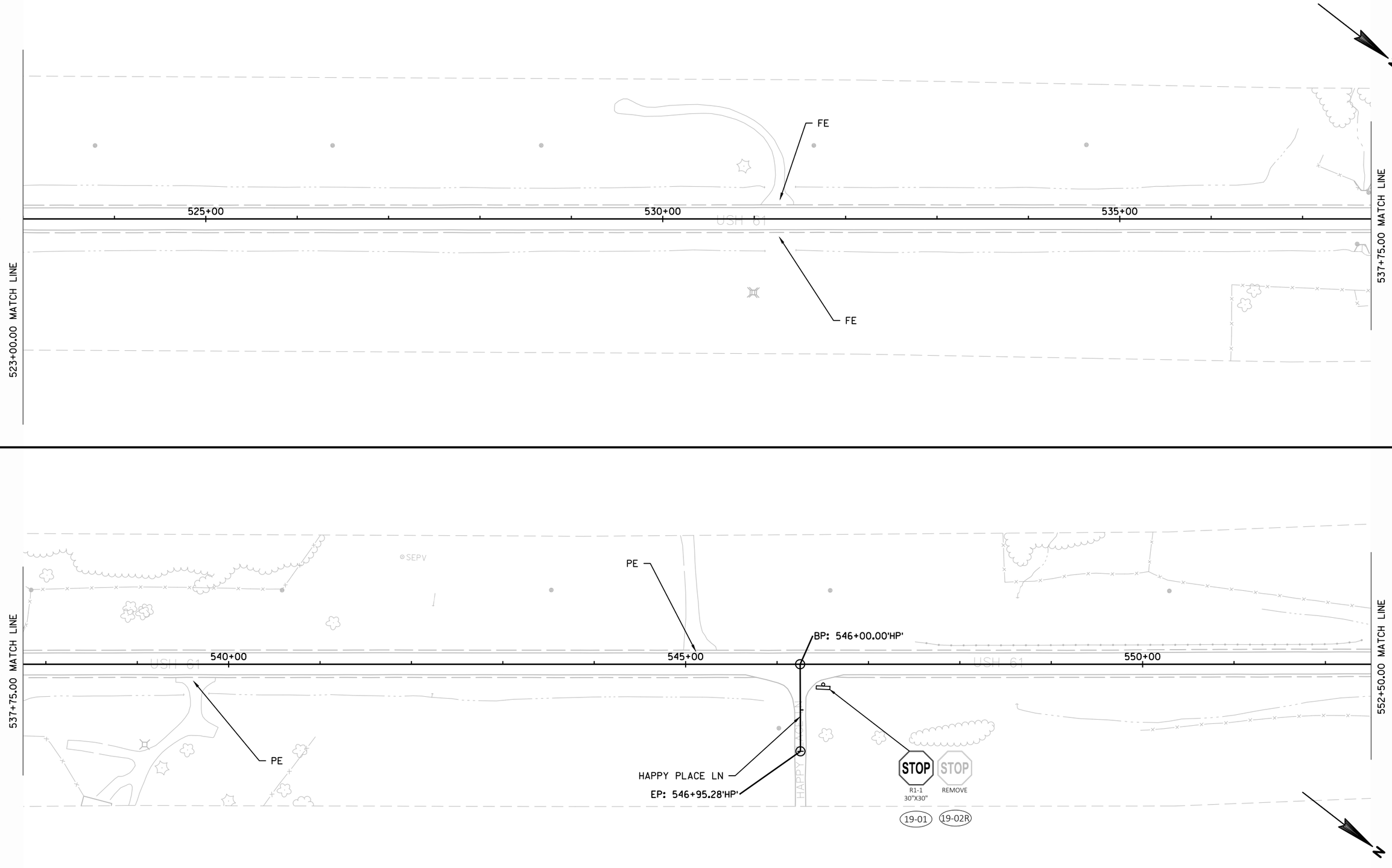




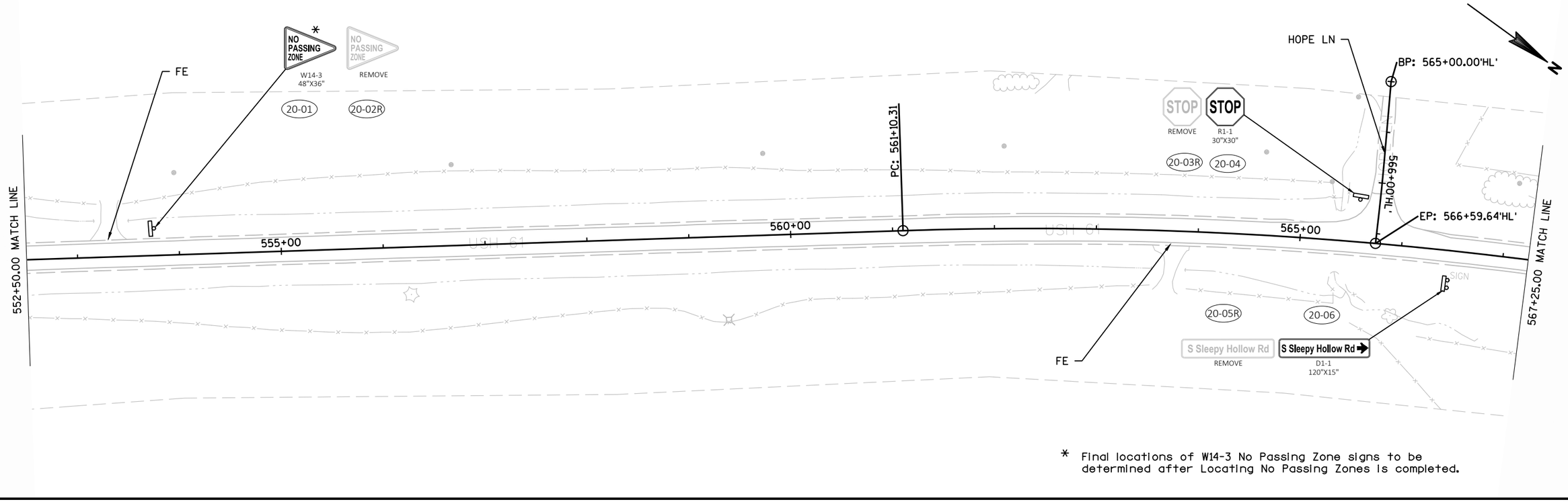
* Final locations of W14-3 No Passing Zone signs to be determined after Locating No Passing Zones is completed.

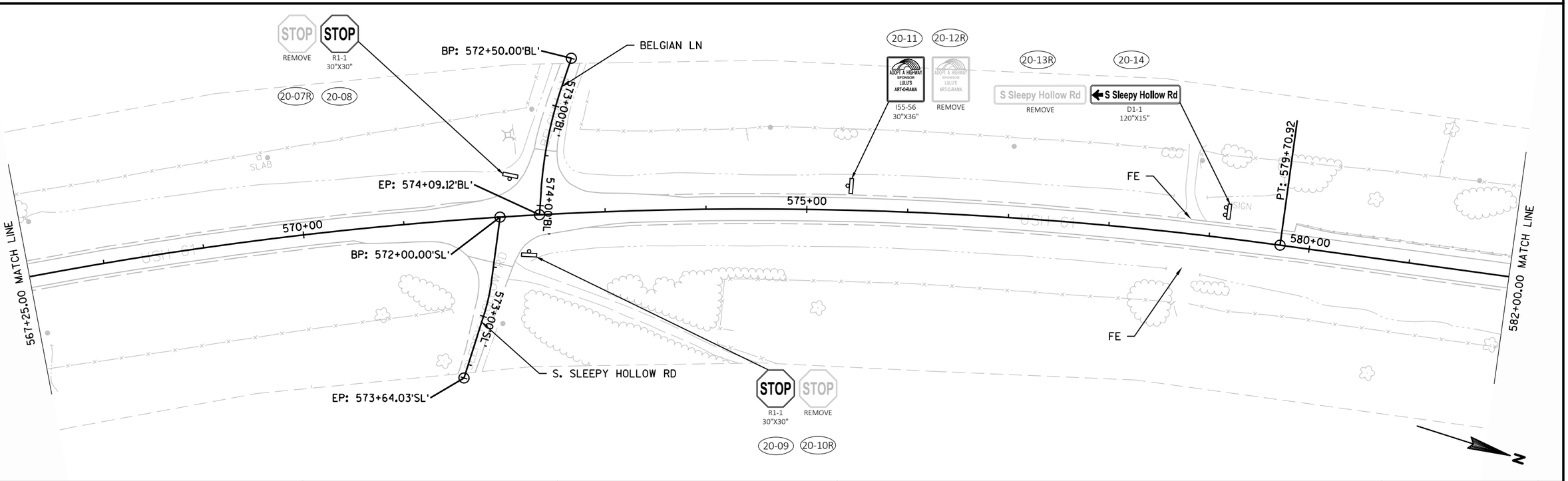
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 49	E

2



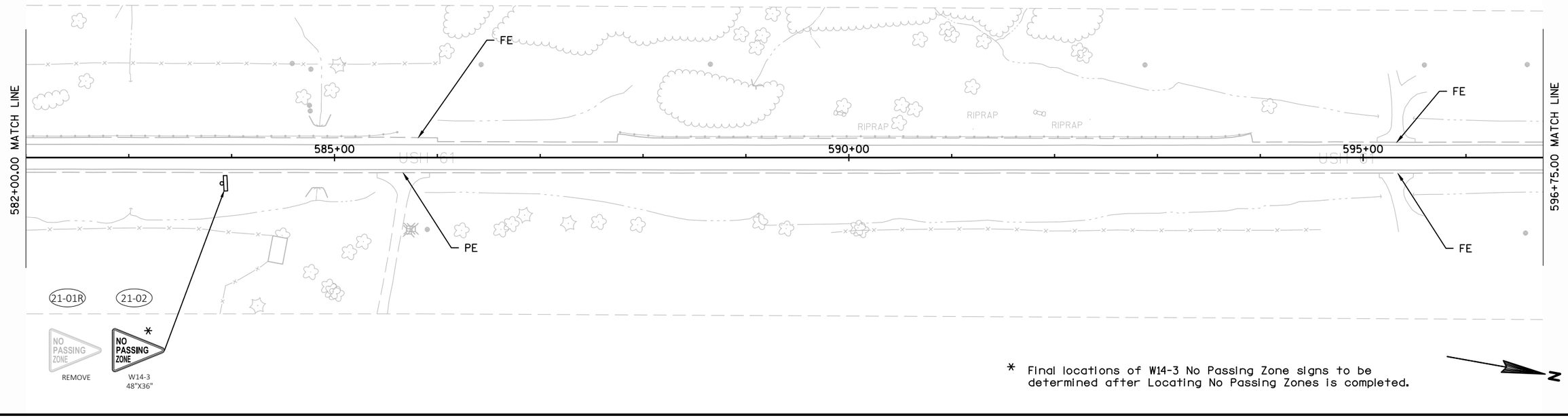
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 50	E

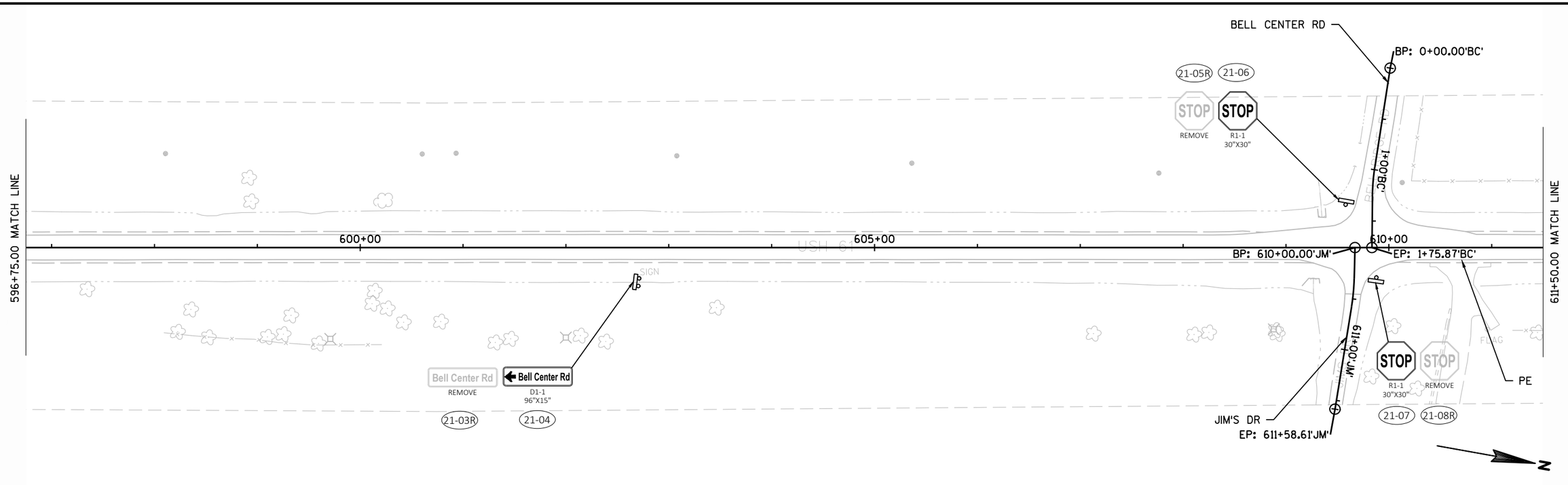




PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 51	E

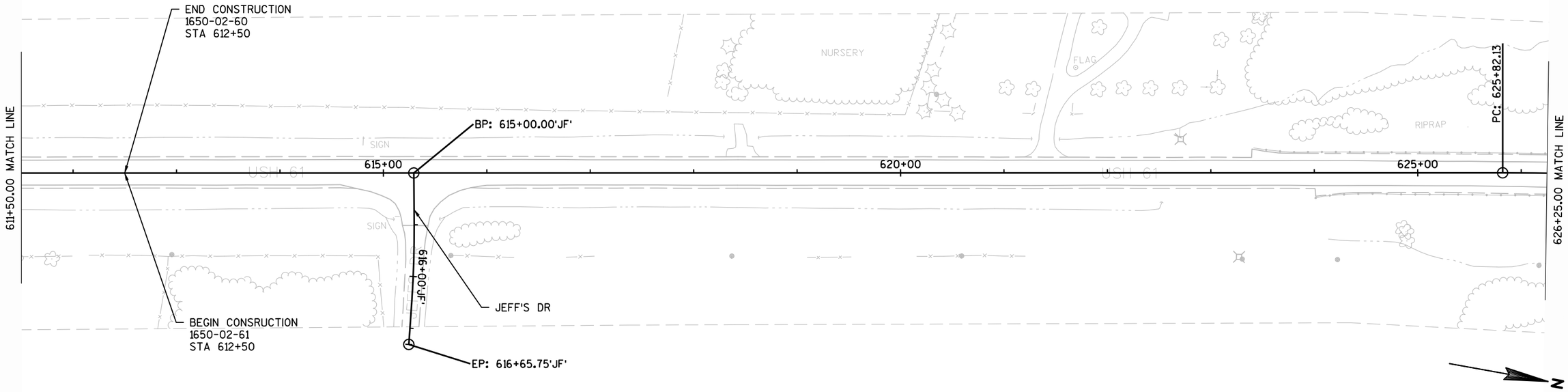
2





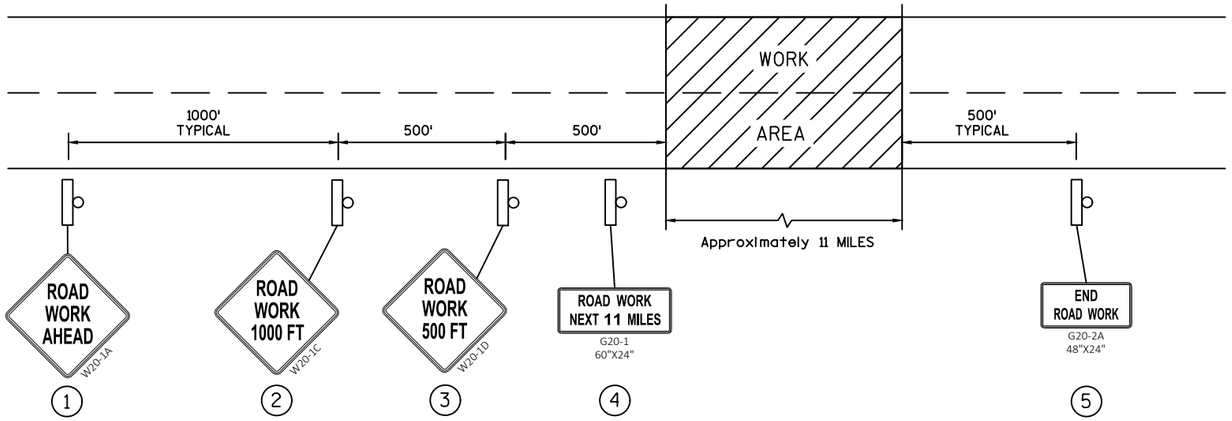
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 52	E

2

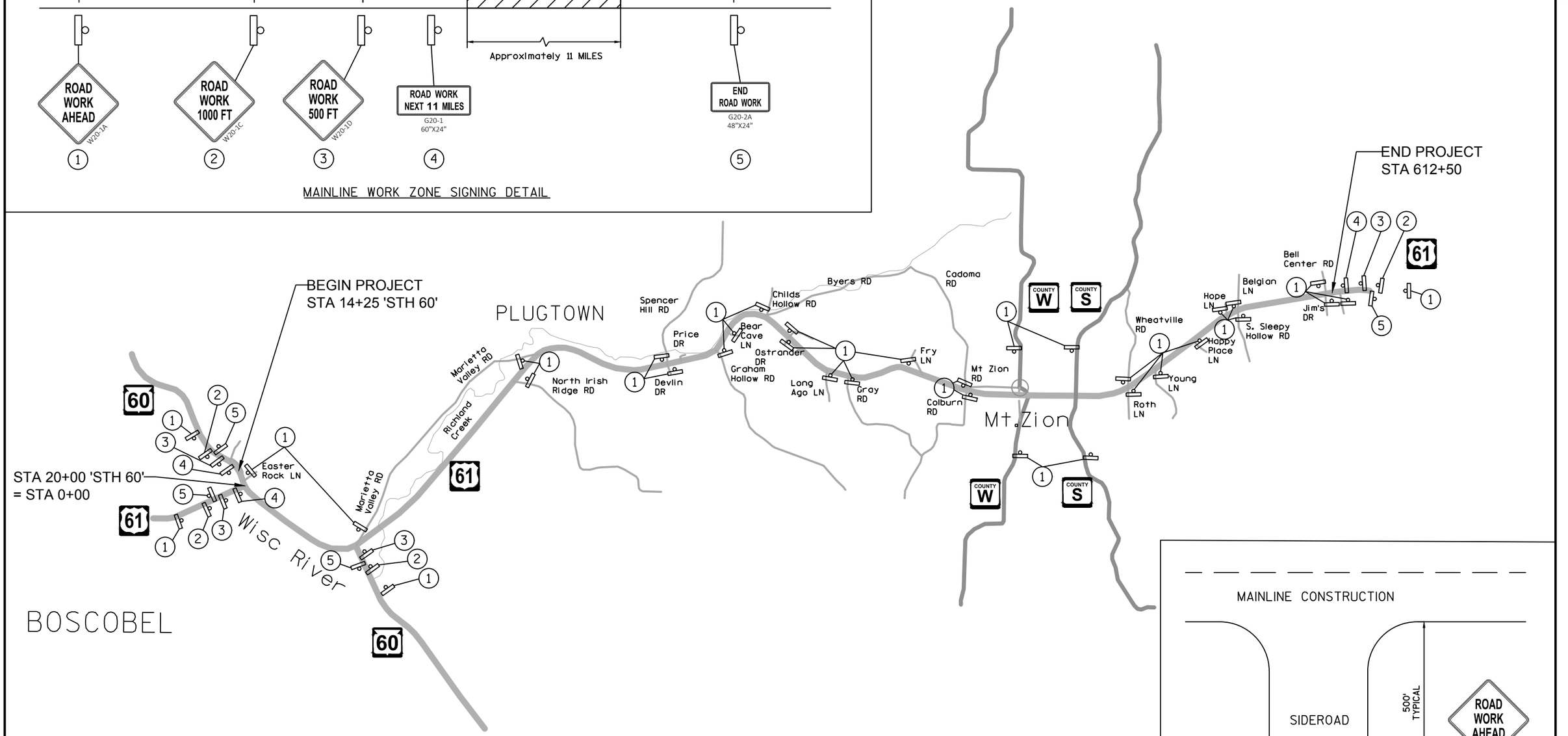


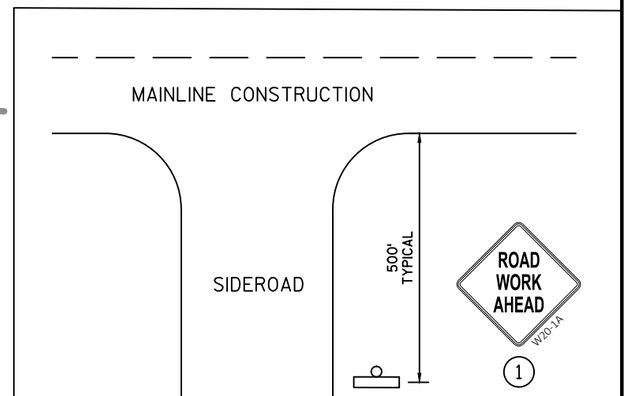
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET 53	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\023201-PS.DWG
LAYOUT NAME - 023201-PS - 0502(43)_PN
PLOT DATE : 1/31/2017 4:10 PM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



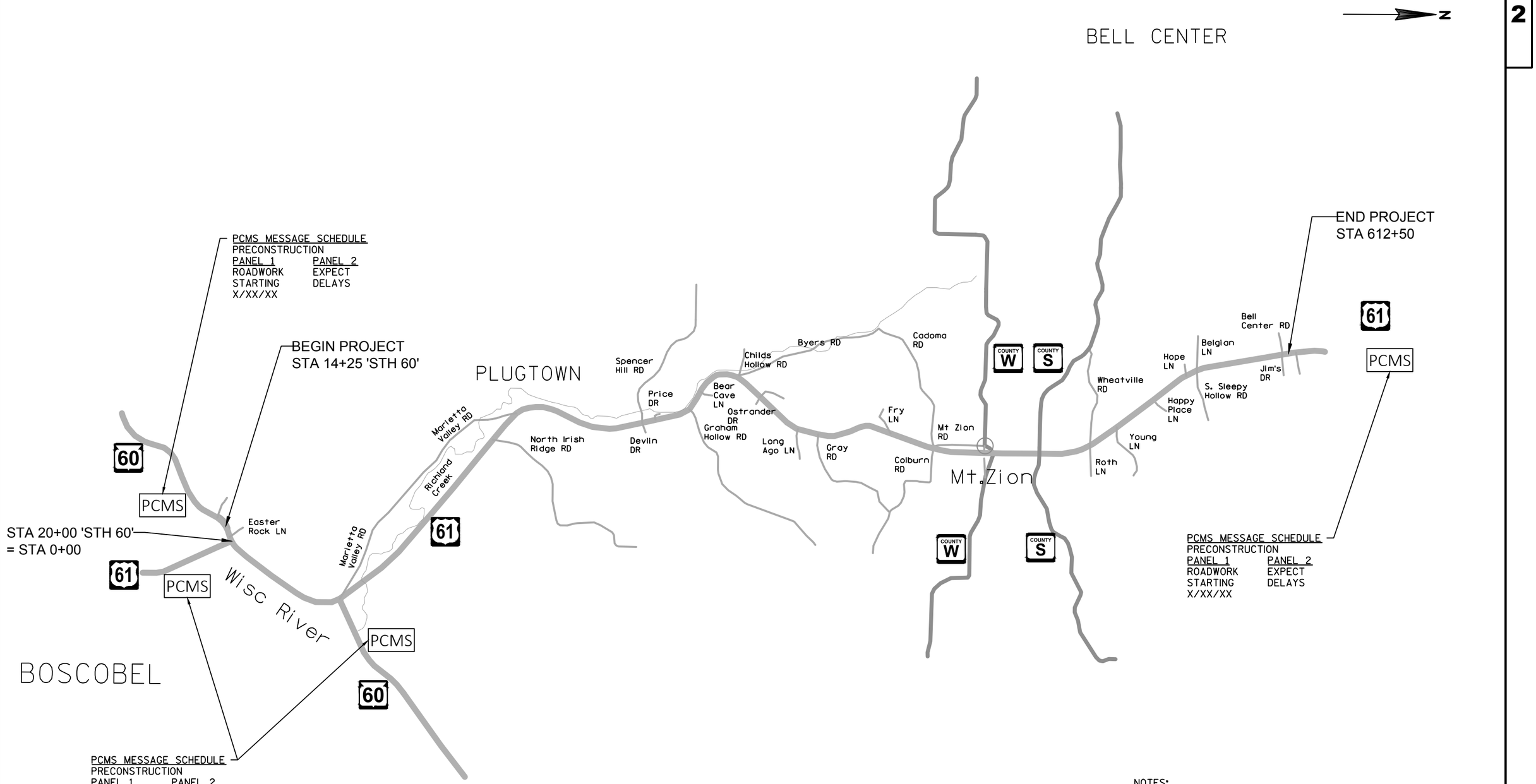
MAINLINE WORK ZONE SIGNING DETAIL





SIDEROAD APPROACH WARNING SIGN DETAIL

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	TRAFFIC CONTROL - SIGNING	SHEET 54 E



NOTES:

- PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE OPERATIONAL FOR A MINIMUM OF ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- PCMS MESSAGE SCHEDULE MAY REQUIRE ADJUSTMENT TO ACCOMMODATE CONSTRUCTION SCHEDULE. MESSAGES MUST BE APPROVED BY THE ENGINEER.
- ALL PCMS BOARDS SHALL REMAIN OPERATIONAL UNTIL PROJECT BEGINS, AS APPROVED BY THE ENGINEER.

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	TRAFFIC CONTROL - PCMS	SHEET 55 E

2

BEGIN PROJECT
STA 14+25 'STH 60'

STA 20+00 'STH 60'
= STA 0+00

MAX. 12' WIDTH
W12-52
48"X48"
1 1/2 MILES AHEAD
WO57-52
48"X36"

BELL CENTER

PLUGTOWN

Childs Hollow RD
Byers RD
Cadoma RD
Spencer Hill RD
Price DR
Bear Cave LN
Ostrander DR
Devlin DR
Graham Hollow RD
Long Ago LN
Gray RD
Fry LN
Mt Zion RD
Colburn RD
Wheatville RD
Young LN
Roth LN
Hope LN
Belgian LN
Bell Center RD
Happy Place LN
S. Sleepy Hollow RD
Jim's DR
Jeff's DR
Old 61 RD
Fleming RD
McKeown RD
Ehorn RD
Art's DR
Store RD
Marietta Valley RD
North Irish Ridge RD
Richland Creek
Easter Rock LN
Wisc River
BOSCOBEL

Mt.Zion

COUNTY W
COUNTY S

END PROJECT
STA 612+50

MAX. 12' WIDTH
W12-52
48"X48"
12 MILES AHEAD
WO57-52
48"X36"

60
61
171

B-12-19 (USH 61)
RICHLAND CREEK

NORTH
M3-1
24"X12"
61
M1-4
24"X24"
MAX. 12' WIDTH
W12-52
48"X48"

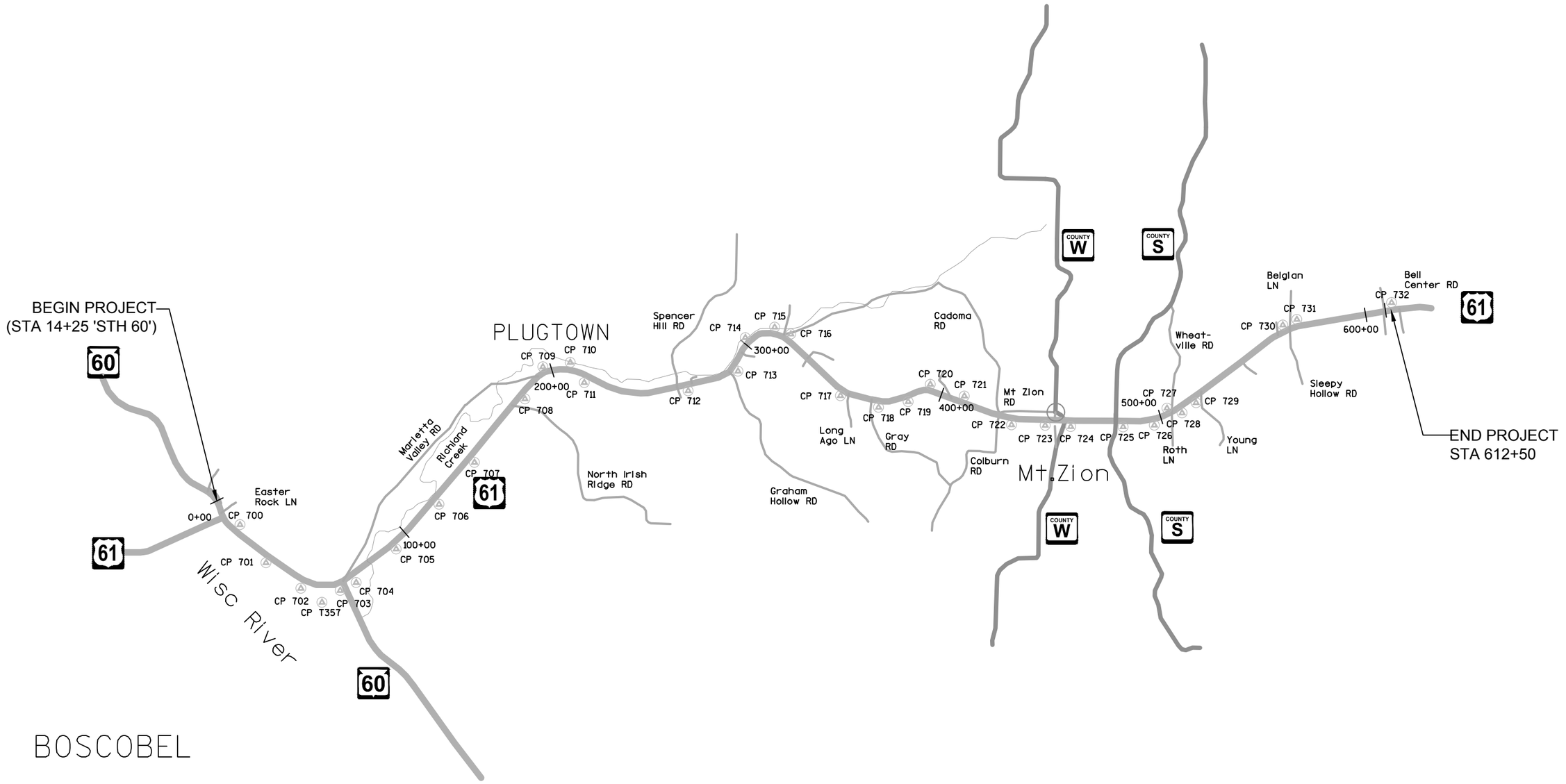
MAX. 12' WIDTH
W12-52
48"X48"
1/4 MILES AHEAD
WO57-52
48"X36"

SOUTH
M3-3
24"X12"
61
M1-4
24"X24"
MAX. 12' WIDTH
W12-52
48"X48"

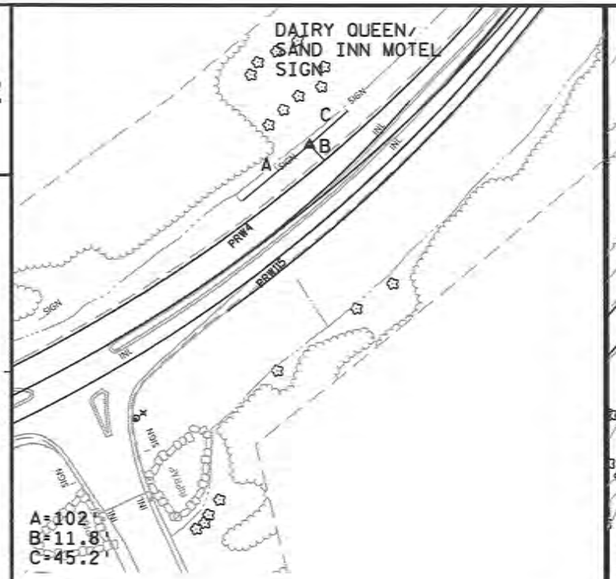
NOTE: MAX WIDTH SIGNING MUST BE PLACED AT LEAST 200' AWAY FROM ANY EXISTING SIGNS.

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	TRAFFIC CONTROL - BRIDGE WIDTH SIGNING	SHEET 56	E

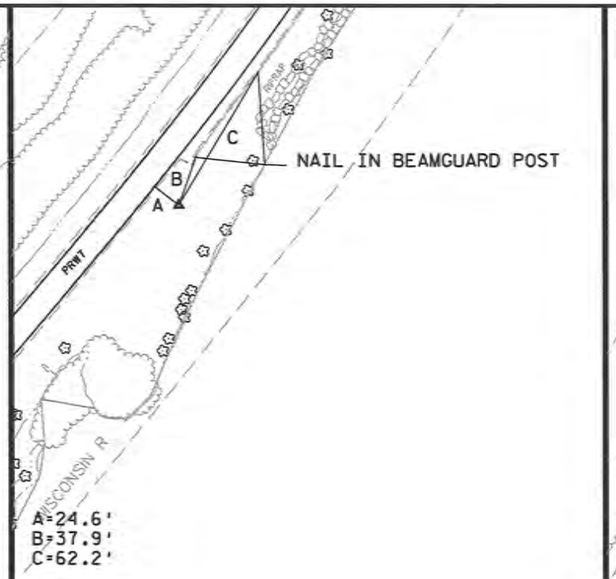
2



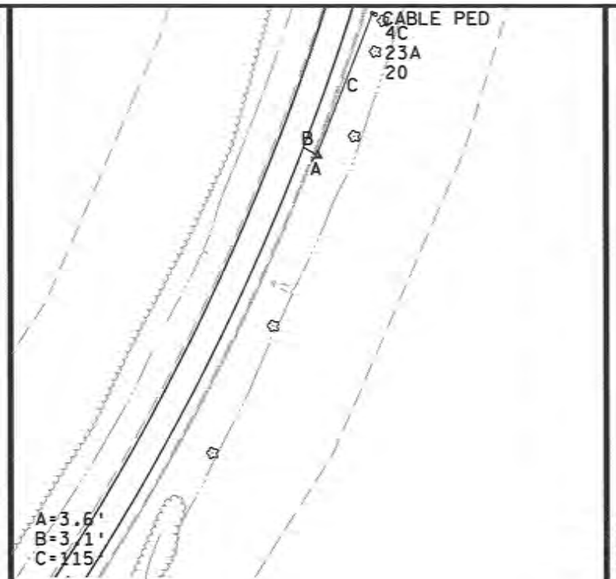
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CONTROL POINT OVERVIEW	SHEET 57	E



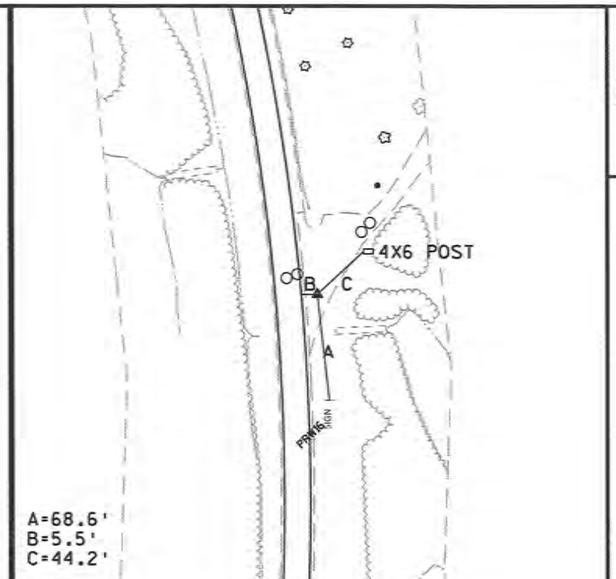
C.P. 700
REBAR WITH CAP
E 432871.49
N 159662.77
REBAR WITH CAP LOCATED 0.15 MI± NORTH OF USH 61 SOUTH AND STH 60



C.P. 701
REBAR WITH CAP
E 434081.75
N 160969.57
REBAR WITH CAP LOCATED .5 MI± NORTH OF USH 61 SOUTH AND OF STH 60 INTERSECTION

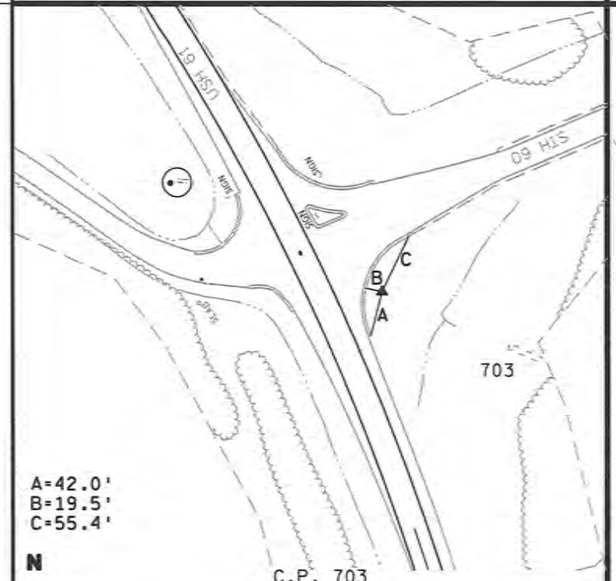


C.P. 702
REBAR WITH CAP
E 435214.09
N 162773.31
REBAR WITH CAP LOCATED .9 MI± NORTH OF USH 61 SOUTH AND STH 60 INTERSECTION.

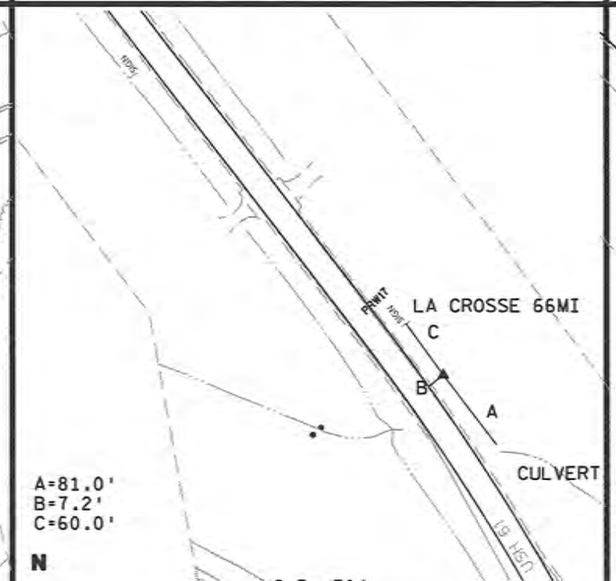


C.P. T357
PK NAIL
E 435356.83
N 163751.20
PK NAIL IN HMA OF DNR BOAT LAUNCH
0.2 MI± SOUTH OF USH 61/STH 60 INTERSECTION

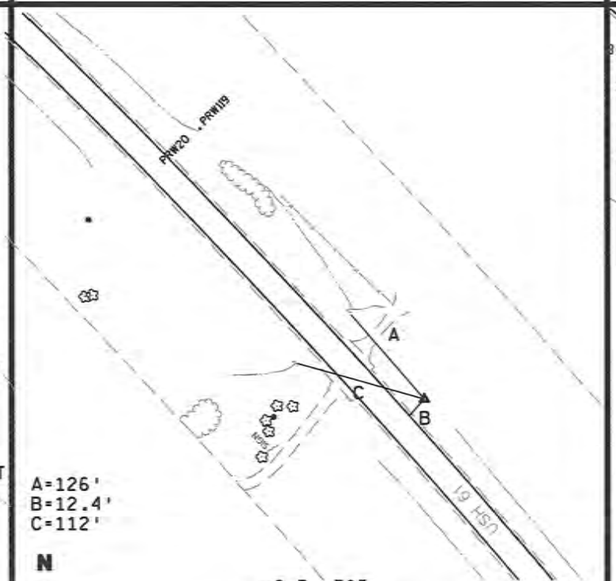
2



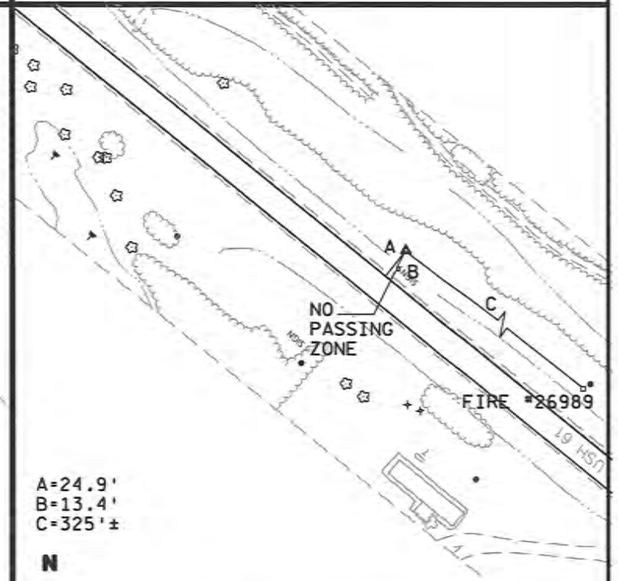
C.P. 703
REBAR WITH CAP
E 435196.85
N 164523.37
REBAR WITH CAP LOCATED AT INTERSECTION OF USH 61 AND STH 60 SOUTH OF INTERSECTION BEHIND CURB AND GUTTER



C.P. 704
REBAR WITH CAP
E 434951.39
N 164879.48
REBAR WITH CAP LOCATED 300'± NORTH OF STH 60 EAST.

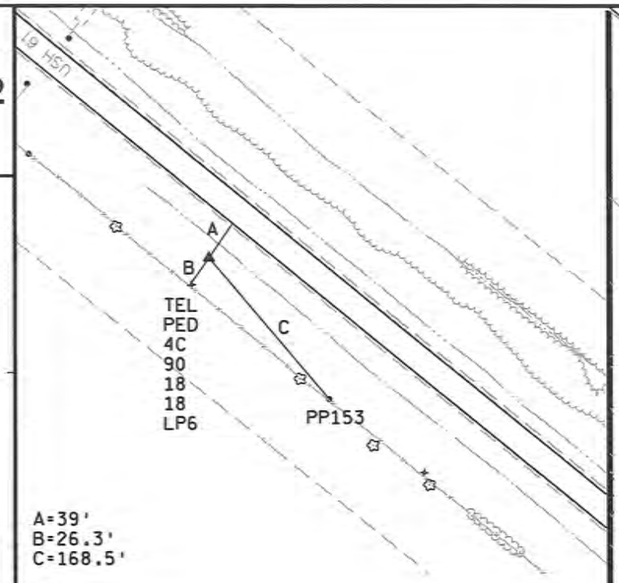


C.P. 705
REBAR WITH CAP
E 433295.43
N 167005.03
REBAR WITH CAP LOCATED 0.55 MI± NORTH OF STH 61 EAST.



C.P. 706
REBAR WITH CAP
E 431841.63
N 168328.32
REBAR WITH CAP LOCATED 325' ± NORTH OF FIRE # 26989

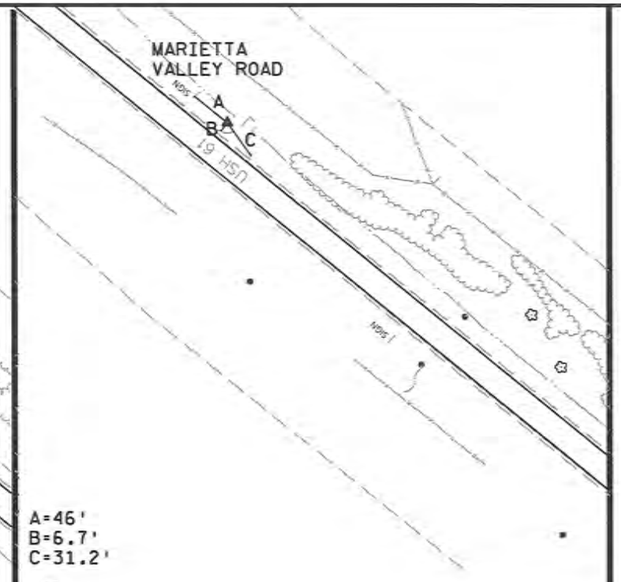
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CONTROL POINTS	SHEET	E



A=39'
B=26.3'
C=168.5'

N

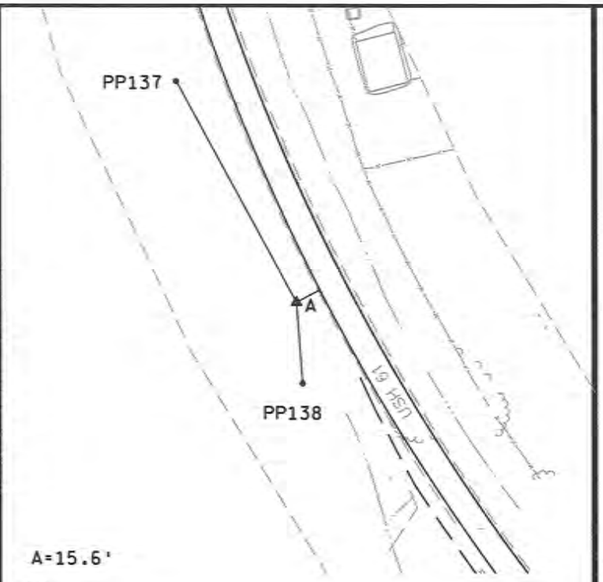
C.P. 707
REBAR WITH CAP
E 429353.43
N 170231.82
REBAR WITH CAP LOCATED 1.55 MI± NORTH OF STH 60 EAST



A=46'
B=6.7'
C=31.2'

N

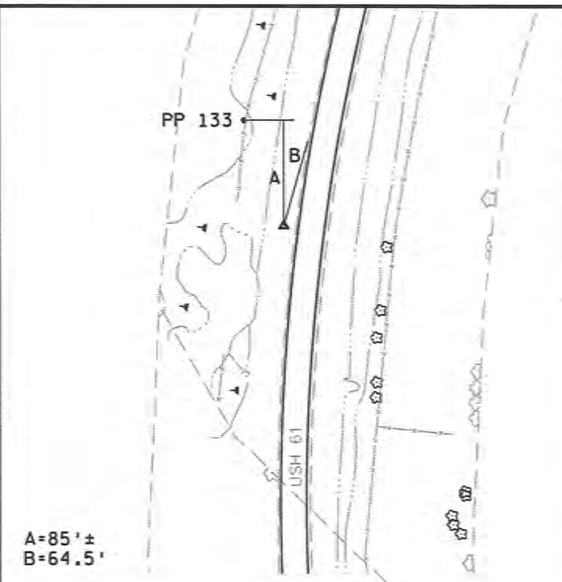
C.P. 708
REBAR WITH CAP
E 426331.22
N 172792.87
REBAR WITH CAP LOCATED .18 MI± NORTH OF NORTH IRISH RIDGE ROAD



A=15.6'

N

C.P. 709
REBAR WITH CAP
E 425558.16
N 173557.77
REBAR WITH CAP LOCATED 350'± NORTH OF NORTH MERIETTA VALLEY ROAD

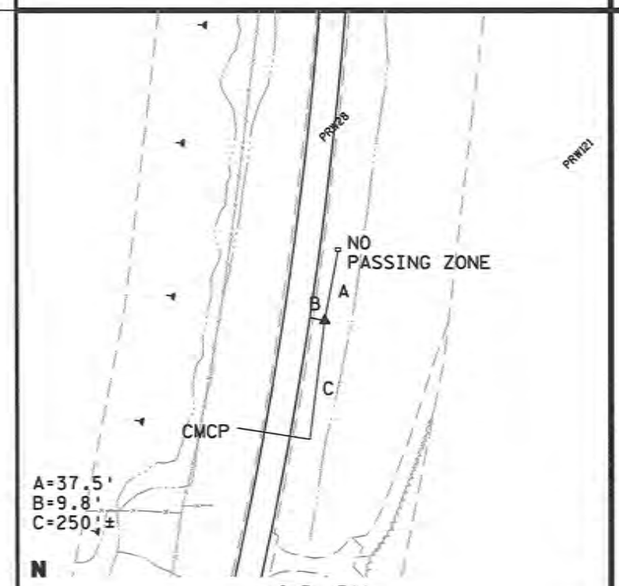


A=85'±
B=64.5'

N

C.P. 710
REBAR WITH CAP
E 425361.90
N 174707.95
REBAR WITH CAP LOCATED .3 MI± NORTH OF MERIETTA VALLEY ROAD.

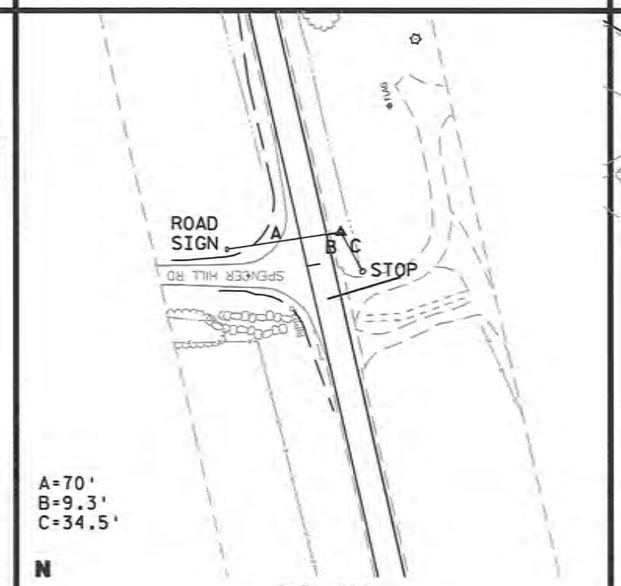
2



A=37.5'
B=9.8'
C=250'±

N

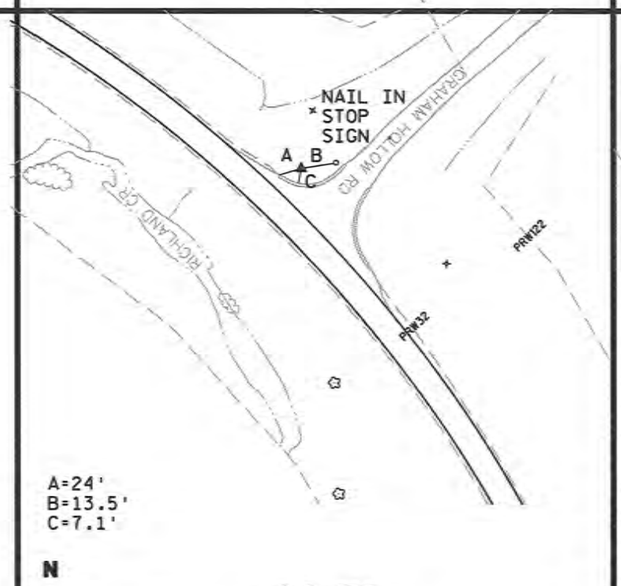
C.P. 711
REBAR WITH CAP
E 426392.63
N 177334.66
REBAR WITH CAP LOCATED .85 MI± NORTH OF MERIETTA VALLEY ROAD



A=70'
B=9.3'
C=34.5'

N

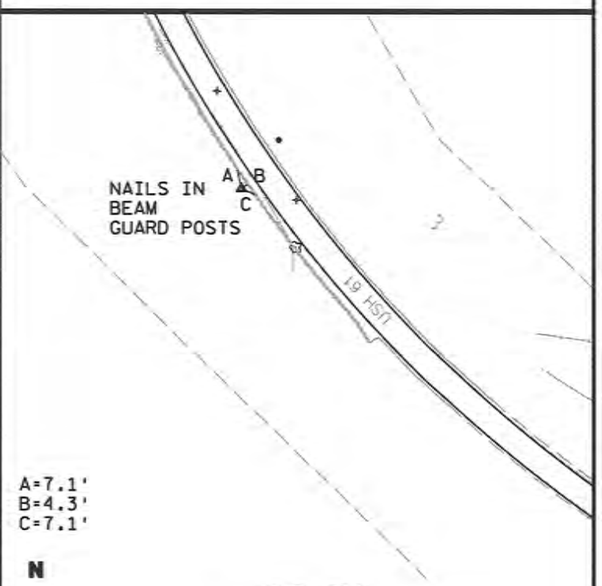
C.P. 712
REBAR WITH CAP
E 426166.83
N 179556.06
REBAR WITH CAP LOCATED EAST OF USH 61,40'± NORTH OF DELIVAN DRIVE



A=24'
B=13.5'
C=7.1'

N

C.P. 713
REBAR WITH CAP
E 425418.12
N 181958.73
REBAR WITH CAP LOCATED 7'± NORTH OF USH 61 AND GRAHAM HOLLOW ROAD INTERSECTION

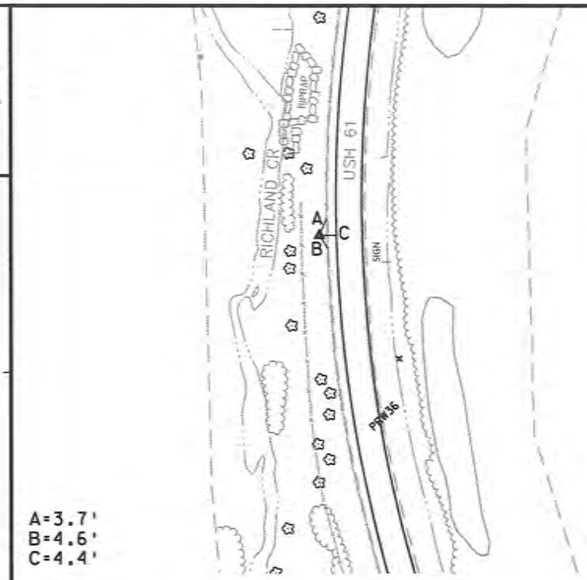


A=7.1'
B=4.3'
C=7.1'

N

C.P. 714
REBAR WITH CAP
E 423788.44
N 182947.36
REBAR WITH CAP LOCATED AT 0.35± MI NORTH OF GRAHAM HOLLOW ROAD

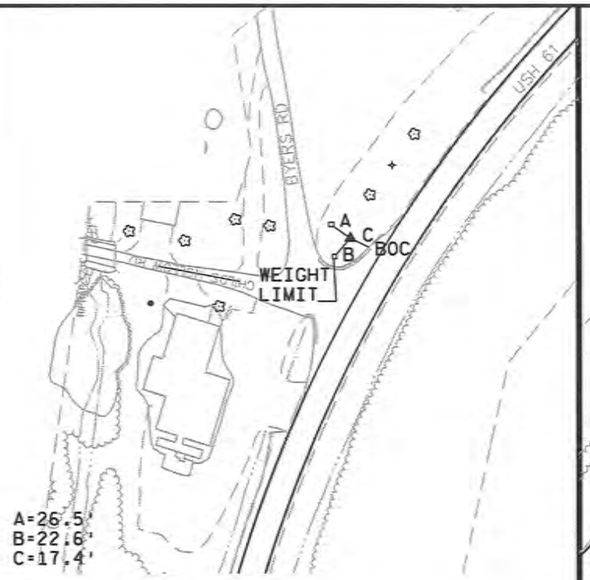
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CONTROL POINTS	SHEET	E



A=3.7'
B=4.6'
C=4.4'

N

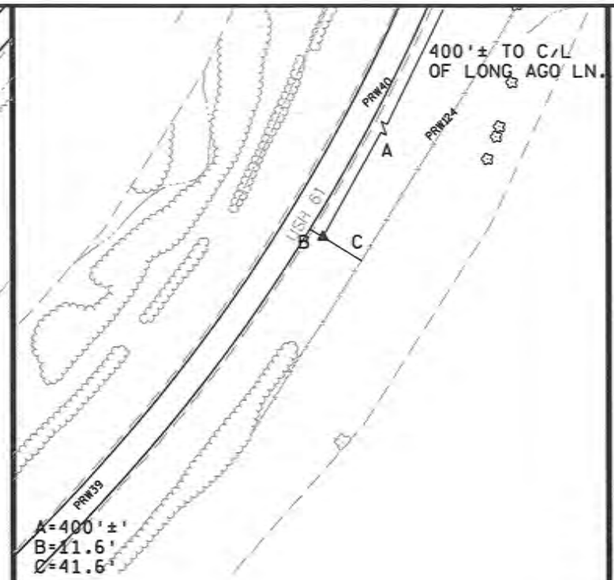
C.P. 715
REBAR WITH CAP
E 423552.42
N 183659.98
REBAR WITH CAP LOCATED .1 MI± SOUTH
OF BYERS ROAD



A=26.5'
B=22.6'
C=17.4'

N

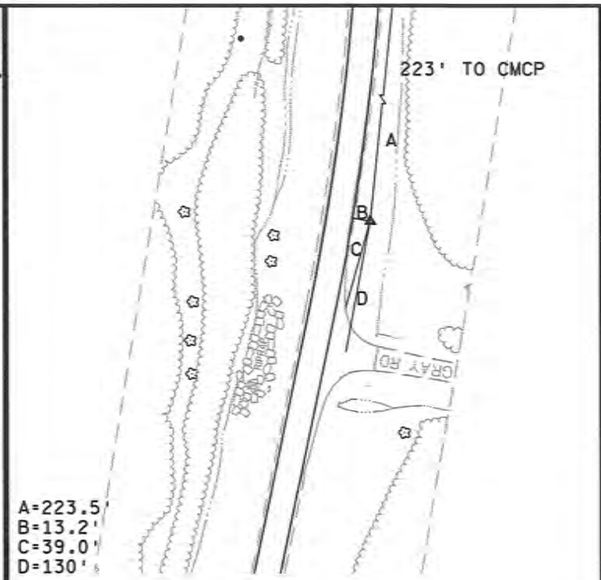
C.P. 716
REBAR WITH CAP
E 423724.57
N 184371.64
REBAR WITH CAP LOCATED ISLAND AT INTERSECTION
OF CHILDS HOLLOW ROAD, BYERS ROAD AND
USH 61 22'± FROM 'WEIGHT LIMIT' SIGN



A=400'±
B=11.6'
C=41.6'

N

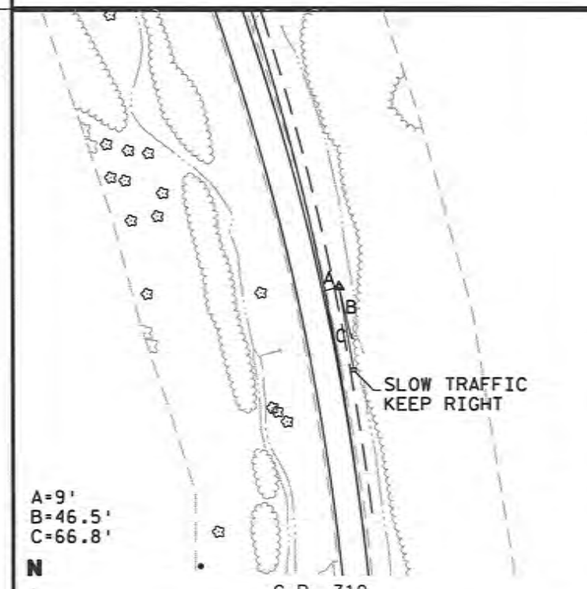
C.P. 717
REBAR WITH CAP
E 426169.39
N 186927.30
REBAR WITH CAP LOCATED 400'± SOUTH
OF LONG AGO LANE AND USH 61 INTERSECTION



A=223.5'
B=13.2'
C=39.0'
D=130'

N

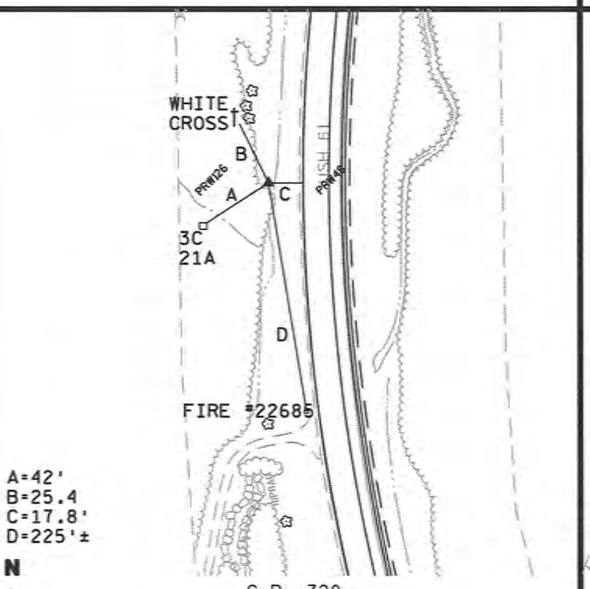
C.P. 718
REBAR WITH CAP
E 426595.77
N 188445.44
REBAR WITH CAP LOCATED 130'± NORTH
OF GRAY ROAD C/L AT USH 61 INTERSECTION.



A=9'
B=46.5'
C=66.8'

N

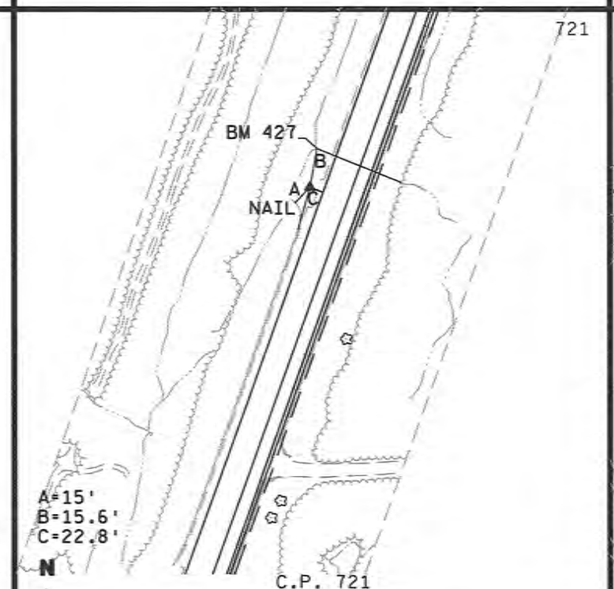
C.P. 719
REBAR WITH CAP
E 426570.52
N 189340.30
REBAR WITH CAP LOCATED .2 MI± NORTH OF
GRAY ROAD AND USH 61 INTERSECTION



A=42'
B=25.4
C=17.8'
D=225'±

N

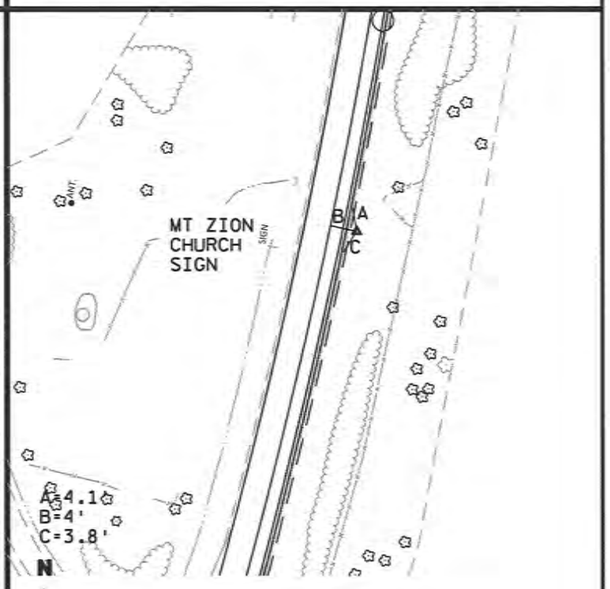
C.P. 720
REBAR WITH CAP
E 426146.96
N 190659.31
REBAR WITH CAP LOCATED .45 MI NORTH
OF GRAY ROAD.



A=15'
B=15.6'
C=22.8'

N

C.P. 721
REBAR WITH CAP
E 426850.06
N 192888.97
REBAR WITH CAP LOCATED .9 MI± NORTH
OF GRAY ROAD.
.25 MI± SOUTH OF COAL BURN ROAD.



A=4.1'
B=4'
C=3.8'

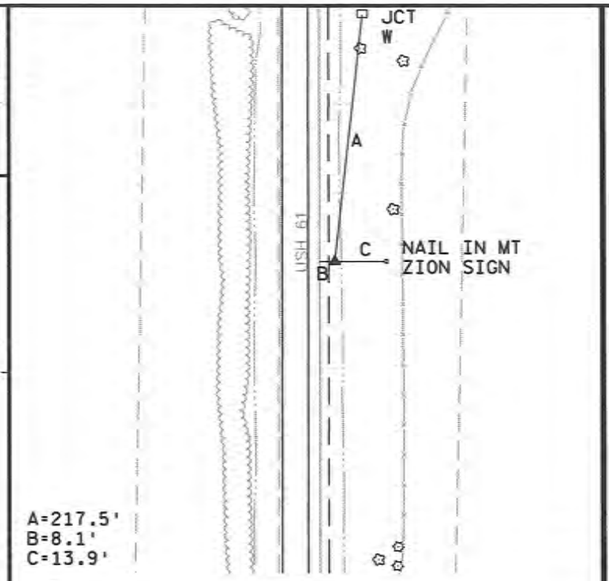
N

C.P. 722
REBAR WITH CAP
E 427430.73
N 194460.12
REBAR WITH CAP LOCATED .1 MI± NORTH
OF COAL BURN ROAD.

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CONTROL POINTS	SHEET	E

FILE NAME : U:\dwgdata\ALIGNMENT TIES.dgn PLOT DATE : 23-JAN-2017 15:07 PLOT BY : dotszz PLOT NAME : PLOT SCALE : 1400:1

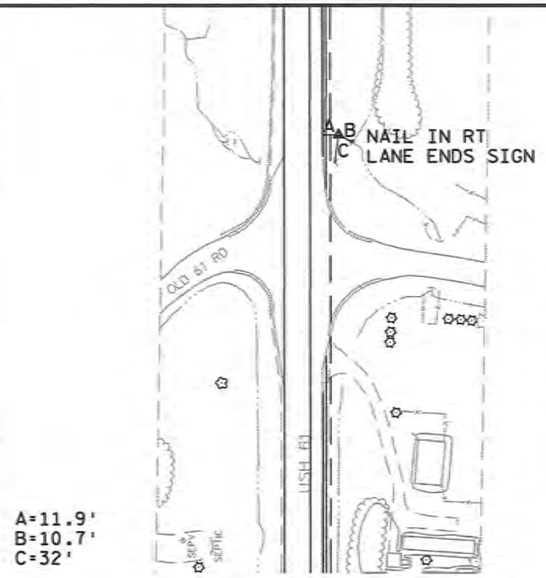
2



A=217.5'
B=8.1'
C=13.9'

N

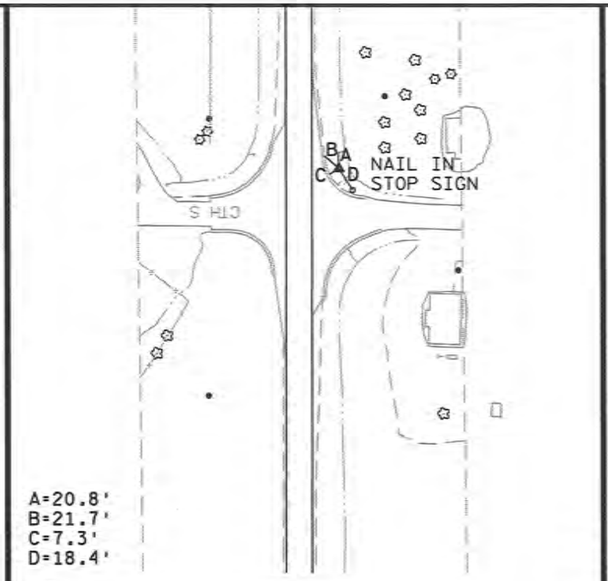
C.P. 723
REBAR WITH CAP
E 427557.58
N 195989.00
REBAR WITH CAP LOCATED .4 MI± NORTH
OF COAL BURN ROAD.



A=11.9'
B=10.7'
C=32'

N

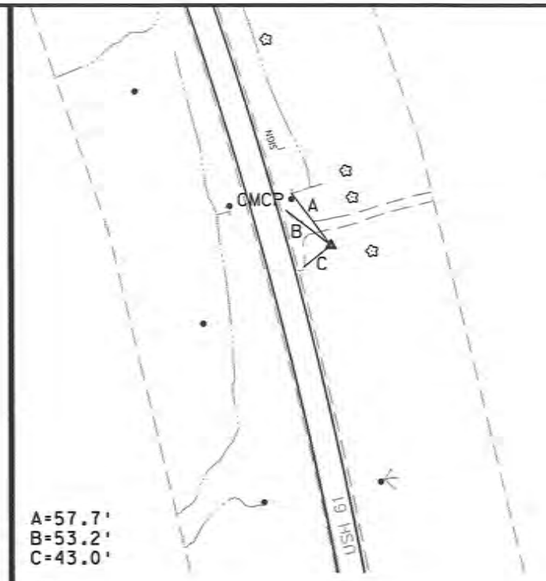
C.P. 724
REBAR WITH CAP
E 427563.92
N 197125.01
LIKEY REBAR WITH CAP LOCATED 0.03 MI± NORTH
OF CTH W



A=20.8'
B=21.7'
C=7.3'
D=18.4'

N

C.P. 725
REBAR WITH CAP
E 427569.12
N 199274.18
REBAR WITH CAP LOCATED 7.3'± FROM
RADIUS C/L NORTH EAST QUADRANT OF USH 61
AND CTH S INTERSECTION

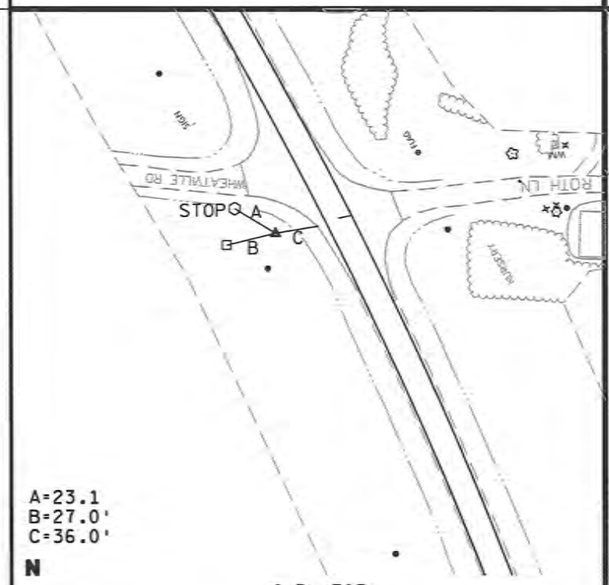


A=57.7'
B=53.2'
C=43.0'

N

C.P. 726
REBAR WITH CAP
E 427451.92
N 201099.57
REBAR WITH CAP LOCATED .35 MI± NORTH
OF CTH S.

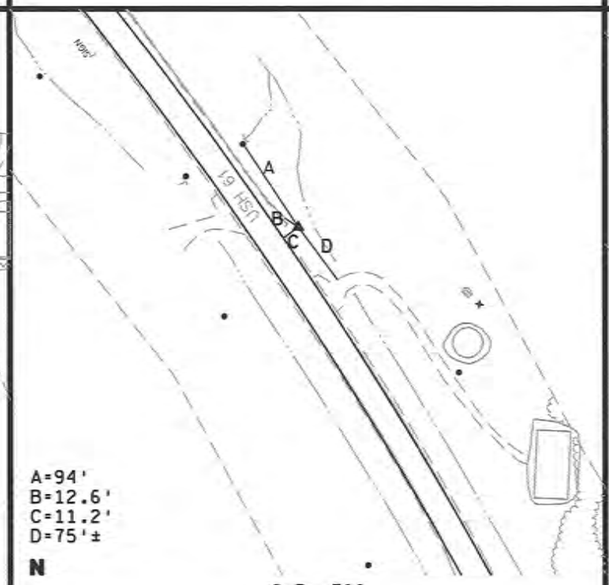
2



A=23.1
B=27.0'
C=36.0'

N

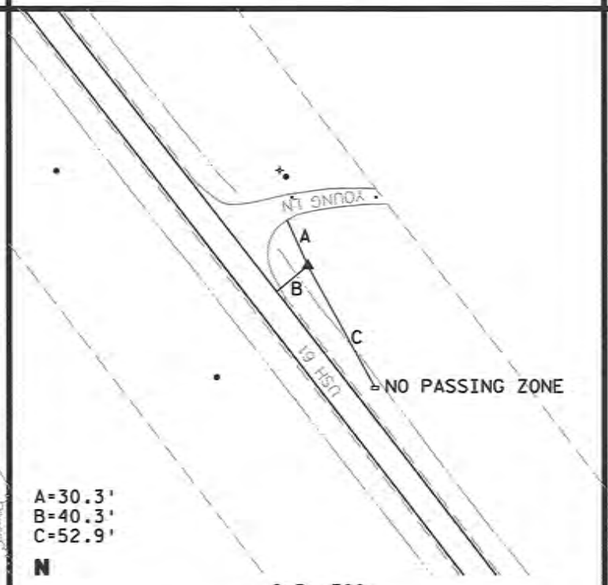
C.P. 727
REBAR WITH CAP
E 427068.15
N 201784.17
LIKELY REBAR WITH CAP LOCATED 0.01 MI± SOUTH
OF WHEATVILLE ROAD



A=94'
B=12.6'
C=11.2'
D=75'±

N

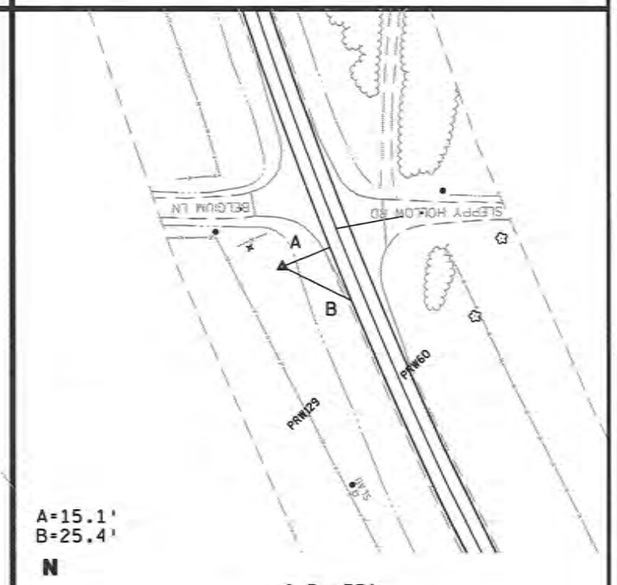
C.P. 728
REBAR WITH CAP
E 426887.12
N 202250.12
REBAR WITH CAP LOCATED .1 MI± NORTH
OF WHEATVILLE ROAD.



A=30.3'
B=40.3'
C=52.9'

N

C.P. 729
REBAR WITH CAP
E 426264.11
N 203122.29
REBAR WITH CAP LOCATED 30'± IN SOUTH
EAST QUADRANT OF USH 61 AND YOUNG LANE

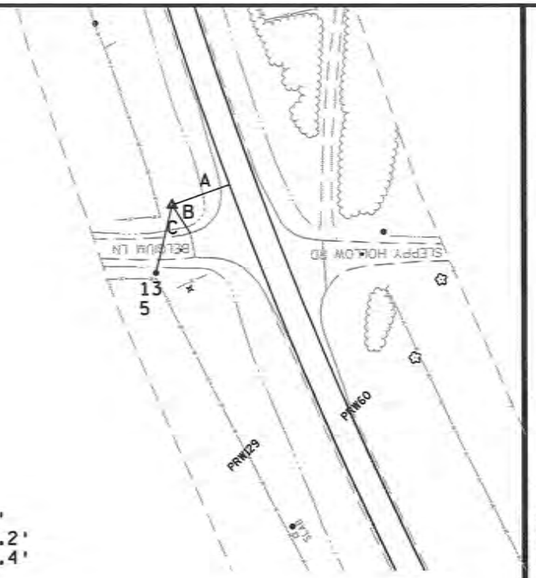


A=15.1'
B=25.4'

N

C.P. 730
REBAR WITH CAP
E 423482.35
N 206625.65
REBAR WITH CAP LOCATED 0.01 MI± SOUTH
OF BELGIAN LANE

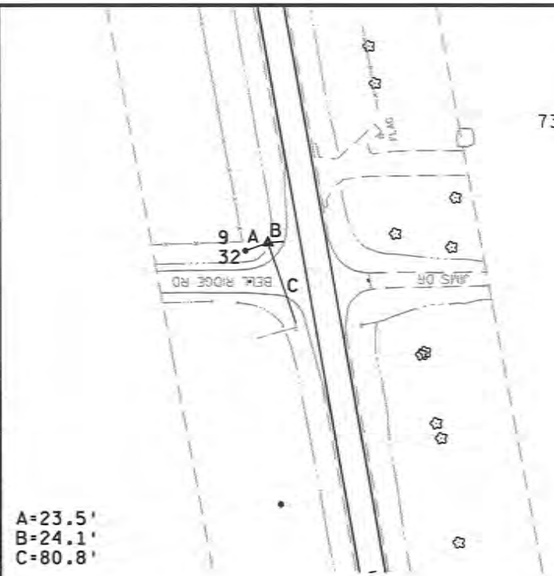
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CONTROL POINTS	SHEET	E



A=51'
B=15.2'
C=55.4'

N

C.P. 731
REBAR WITH CAP
E 423186.96
N 207176.38
REBAR WITH CAP LOCATED 51'± OFF USH 61
IN NORTH WEST QUADRANT OF USH 61 AND
BELGIAN LANE.



A=23.5'
B=24.1'
C=80.8'

N

C.P. 732
REBAR WITH CAP
E 422491.82
N 210864.60
REBAR WITH CAP 24.1'± FROM USH 61
IN NORTH WEST QUADRANT AND USH 61 AND
BELL CENTER ROAD.

2

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CONTROL POINTS	SHEET	E

1650-02-60

Line	Item	Item Description	Unit	Total	Qty
0010	204.0105	Removing Pavement Butt Joints	SY	21.000	21.000
0020	204.0110	Removing Asphaltic Surface	SY	7,286.000	7,286.000
0030	204.0125	Removing Asphaltic Surface Milling	TON	45,389.000	45,389.000
0040	204.0130	Removing Curb	LF	5.000	5.000
0050	204.0150	Removing Curb & Gutter	LF	218.000	218.000
0060	204.0165	Removing Guardrail	LF	14,773.000	14,773.000
0070	204.0170	Removing Fence	LF	300.000	300.000
0080	204.0185	Removing Masonry	CY	4.000	4.000
0090	204.0270	Abandoning Culvert Pipes	EACH	1.000	1.000
0100	205.0100	Excavation Common	CY	93.000	93.000
0110	205.9015.S	Grading Shaping and Finishing Intersection (location) 01. GRAY RD	LS	1.000	1.000
0120	208.0100	Borrow	CY	2,709.000	2,709.000
0130	209.0200.S	Backfill Controlled Low Strength	CY	79.000	79.000
0140	211.0100	Prepare Foundation for Asphaltic Paving (project) 01.1650-02-60	LS	1.000	1.000
0150	213.0100	Finishing Roadway (project) 01.1650-02-60	EACH	1.000	1.000
0160	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,175.000	2,175.000
0170	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	2,711.000	2,711.000
0180	312.0110	Select Crushed Material	TON	5,000.000	5,000.000
0190	330.0100	Mill and Relay	SY	255,496.000	255,496.000
0200	374.1010.S	QMP Mill and Relay Compaction	SY	255,496.000	255,496.000
0210	416.1010	Concrete Surface Drains	CY	5.000	5.000
0220	440.4410	Incentive IRI Ride	DOL	49,200.000	49,200.000
0230	455.0605	Tack Coat	GAL	13,118.000	13,118.000
0240	460.2005	Incentive Density PWL HMA Pavement	DOL	74,100.000	74,100.000
0250	460.2010	Incentive Air Voids HMA Pavement	DOL	74,100.000	74,100.000
0260	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	70,380.000	70,380.000
0270	460.5224	HMA Pavement 4 LT 58-28 S	TON	59,355.000	59,355.000
0280	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	83.000	83.000
0290	465.0425	Asphaltic Shoulder Rumble Strips 2-Lane Rural	LF	81,216.000	81,216.000
0300	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	54,251.000	54,251.000
0310	509.0301	Preparation Decks Type 1	SY	5.000	5.000
0320	509.1500	Concrete Surface Repair	SF	15.000	15.000
0330	509.3500.S	HMA Overlay Polymer-Modified	TON	48.000	48.000
0340	521.0124	Culvert Pipe Corrugated Steel 24-Inch	LF	10.000	10.000
0350	521.0172	Culvert Pipe Corrugated Steel 72-Inch	LF	4.000	4.000
0360	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	3.000	3.000
0370	521.1072	Apron Endwalls for Culvert Pipe Steel 72-Inch	EACH	2.000	2.000
0380	601.0120	Concrete Curb Type J	LF	5.000	5.000

1650-02-60

Line	Item	Item Description	Unit	Total	Qty
0390	601.0553	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type D	LF	1,918.000	1,918.000
0400	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	218.000	218.000
0410	606.0300	Riprap Heavy	CY	70.000	70.000
0420	614.0010	Barrier System Grading Shaping Finishing	EACH	6.000	6.000
0430	614.2300	MGS Guardrail 3	LF	11,719.000	11,719.000
0440	614.2330	MGS Guardrail 3 K	LF	1,724.000	1,724.000
0450	614.2500	MGS Thrie Beam Transition	LF	78.000	78.000
0460	614.2610	MGS Guardrail Terminal EAT	EACH	36.000	36.000
0470	618.0100	Maintenance And Repair of Haul Roads (project) 01.1650-02-60	EACH	1.000	1.000
0480	619.1000	Mobilization	EACH	1.000	1.000
0490	624.0100	Water	MGAL	1,160.000	1,160.000
0500	625.0500	Salvaged Topsoil	SY	2,525.000	2,525.000
0510	627.0200	Mulching	SY	524.000	524.000
0520	628.1504	Silt Fence	LF	2,438.000	2,438.000
0530	628.1520	Silt Fence Maintenance	LF	2,438.000	2,438.000
0540	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0550	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0560	628.2004	Erosion Mat Class I Type B	SY	2,633.000	2,633.000
0570	628.7015	Inlet Protection Type C	EACH	11.000	11.000
0580	629.0210	Fertilizer Type B	CWT	1.000	1.000
0590	630.0120	Seeding Mixture No. 20	LB	100.000	100.000
0600	630.0200	Seeding Temporary	LB	100.000	100.000
0610	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	116.000	116.000
0620	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	64.000	64.000
0630	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	8.000	8.000
0640	637.2210	Signs Type II Reflective H	SF	1,198.920	1,198.920
0650	637.2230	Signs Type II Reflective F	SF	220.000	220.000
0660	638.2602	Removing Signs Type II	EACH	160.000	160.000
0670	638.3000	Removing Small Sign Supports	EACH	185.000	185.000
0680	638.4000	Moving Small Sign Supports	EACH	4.000	4.000
0690	642.5201	Field Office Type C	EACH	1.000	1.000
0700	643.0100	Traffic Control (project) 01.1650-02-60	EACH	1.000	1.000
0710	643.0300	Traffic Control Drums	DAY	13,169.000	13,169.000
0720	643.0310.S	Temporary Portable Rumble Strips	LS	1.000	1.000
0730	643.0420	Traffic Control Barricades Type III	DAY	450.000	450.000
0740	643.0900	Traffic Control Signs	DAY	6,498.000	6,498.000
0750	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000
0760	645.0120	Geotextile Type HR	SY	166.000	166.000
0770	645.0220	Geogrid Type SR	SY	5,000.000	5,000.000

1650-02-60

Line	Item	Item Description	Unit	Total	Qty
0780	646.0106	Pavement Marking Epoxy 4-Inch	LF	244,240.000	244,240.000
0790	646.0126	Pavement Marking Epoxy 8-Inch	LF	1,155.000	1,155.000
0800	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	77,573.000	77,573.000
0810	646.0900.S	Pavement Marking Late Season	LF	43,336.000	43,336.000
0820	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	9.000	9.000
0830	647.0356	Pavement Marking Words Epoxy	EACH	6.000	6.000
0840	647.0456	Pavement Marking Curb Epoxy	LF	85.000	85.000
0850	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	66.000	66.000
0860	647.0606	Pavement Marking Island Nose Epoxy	EACH	4.000	4.000
0870	647.0856	Pavement Marking Concrete Corrugated Median Epoxy	SF	54.000	54.000
0880	648.0100	Locating No-Passing Zones	MI	11.700	11.700
0890	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	67,922.000	67,922.000
0900	650.8000	Construction Staking Resurfacing Reference	LF	61,825.000	61,825.000
0910	650.9920	Construction Staking Slope Stakes	LF	315.000	315.000
0920	690.0150	Sawing Asphalt	LF	558.000	558.000
0930	690.0250	Sawing Concrete	LF	6.000	6.000
0940	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,400.000	2,400.000
0950	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	3,200.000	3,200.000
0960	SPV.0060	Special 01. PVC Drain Retrofit	EACH	8.000	8.000
0970	SPV.0060	Special 02. HMA Percent Within Limits (PWL) Test Strip	EACH	1.000	1.000
0980	SPV.0090	Special 01. Sawing Pavement Deck Preparation Area	LF	30.000	30.000
0990	SPV.0090	Special 02. Painting Beam Guard	LF	4,112.000	4,112.000

3

REMOVING ASPHALTIC SURFACE

CATEGORY	STATION	TO	STATION	LOCATION	204.0110 SY	REMARKS
0010	16+00 'STH60'			LT	129	Easter Rock Lane
	65+00			LT	434	Marietta Valley Rd
	56+70			RT	127	PE
	77+20	-	78+88	LT	39	guardrail area only
	77+20	-	78+88	RT	53	guardrail area only
	80+22	-	85+48	LT	220	guardrail area only
	80+22	-	85+00	RT	218	guardrail area only
	157+62			RT	63	PE
	166+25			RT	77	PE
	176+15'NR'	-	176+92 'NR'		303	N Irish Ridge Rd
	194+10 'MVN'	-	194+85 'MVN'		342	Marietta Valley Rd
	200+57			RT	79	PE
	257+85 'SH'	-	257+57 'SH'		253	Spencer Hill Rd
	284+15 'GH'	-	284+85 'GH'		378	Graham Hollow Rd
	294+15 'BC'	-	294+45 'BC'		87	Bear Cave Ln.
	316+50			LT	76	PE
	317+93 'CH'	-	318+35 'CH'		252	Byers Hollow / Childs Rd
	357+15 'LA'	-	357+57 'LA'		209	Long Ago Lane
	368+15 'GR'	-	368+60 'GR'		188	Gray Rd
	405+56 'FR'	-	406+04 'FR'		135	Fry Ln
	428+26 'CL'	-	428+60 'CL'		186	Coalburn Rd
	427+36 'MZ'	-	427+60 'MZ'		206	Mt. Zion Rd
	456+60 'CW'	-	457+20 'CW'		309	CTH W
	457+71 'CW'	-	458+45 'CW'		387	CTH W
	478+61 'CS'	-	479+56 'CS'		431	CTH S
	480+01 'CS'	-	480+77 'CS'		366	CTH S
	506+18 'RT'	-	506+55 'RT'		226	Roth Ln
	508+07 'WH'	-	508+51 'WH'		320	Wheatville Rd
	522+18 'YG'	-	522+55 'YG'		197	Young Ln
	546+18 'HP'	-	546+43 'HP'		67	Happy Place Ln
	566+10 'HL'	-	566+41 'HL'		127	Hope Ln
	572+18 'SH'	-	572+45 'SH'		195	Sleepy Hollow Rd
	573+44 'BL'	-	573+91 'BL'		229	Belgium Ln
	610+18 'JM'	-	610+45 'JM'		82	Jim's Dr
	0+79 'BC'	-	1+57 'BC'		296	Bell Ridge Rd
				TOTAL 0010	7286	

REMOVING GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	204.0165 LF
0010	18+94 'STH 60'	-	19+70 'STH 60'	RT	159
	0+17	-	10+50	RT	1097
	25+55	-	51+45	RT	2590
	57+35	-	61+23	RT	388
	77+17	-	77+70	LT	53
	77+20	-	77+73	RT	53
	84+99	-	85+52	LT	53
	84+47	-	85+00	RT	53
	269+10	-	271+32	LT	222
	269+80	-	272+48	RT	268
	293+98	-	294+36	LT	62
	301+65	-	316+31	LT	1466
	319+97	-	329+00	LT	903
	397+25	-	412+60	RT	1535
	411+56	-	415+12	LT	356
	412+85	-	417+00	RT	415
	424+44	-	427+47	RT	323
	427+79	-	439+96	RT	1238
	434+49	-	442+79	LT	830
	457+64	-	461+70	LT	406
	511+15	-	517+35	RT	620
	547+51	-	552+41	LT	490
	579+84	-	585+62	LT	578
	587+77	-	593+92	LT	615
				TOTAL 0010	14773

REMOVING MASONRY

CATEGORY	STATION	LOCATION	204.0185 CY	REMARKS
0010	294+18	Lt	2	USH 61/Bear Cave LN Culvert Endwall
	367+44	Rt	1	USH 61/Gray RD Culvert Endwall
	458+50	Lt	1	USH 61/CTH W Culvert Endwall
		TOTAL 0010	4	

REMOVING PAVEMENT BUTT JOINTS

CATEGORY	STATION	LOCATION	204.0105 SY	REMARKS
0010	14+25 'STH 60'	STH 60 M/L	7	30' x 2'
	2+10 '60E'	STH 60 M/L	7	30' x 2'
	612+50	USH 61	7	30' x 2'
		TOTAL 0010	21	

REMOVING FENCE

CATEGORY	STATION	TO	STATION	LOCATION	204.0170 LF	REMARKS
0010	458+75	-	461+75	LT	300	Fence in NW Quad of CTH W Intersection
				TOTAL 0010	300	

3

MILLING ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	REMOVING ASPHALTIC SURFACE MILLING 204.0125 TON	MILL AND RELAY 330.0100 SY	REMARKS
0010	0+00	-	5+50	NB & SB	308	0	2" removal
	5+50	-	7+50	transition	52	992	avg 2" removal / 6" relay
	7+50	-	61+00	mainline	0	22991	6" relay
	61+00	-	63+00	transition	100	997	avg 2" removal / 6" relay
	63+00	-	78+88	mainline	1349	6907	4" removal / 6" relay
	80+21	-	175+00	mainline	7077	38020	4" removal / 6" relay
	175+00	-	285+00	mainline	8363	44225	4" removal / 6" relay
	285+00	-	381+50	mainline	7526	39012	4" removal / 6" relay
	381+50	-	446+00	mainline	6548	32027	4" removal / 6" relay
	446+00	-	474+40	mainline	2739	14413	4" removal / 8" relay
	474+40	-	612+50	mainline	10778	55912	4" removal / 8" relay
	14+25	-	20+00	STH 60 west	290	0	2" removal
	0+22	-	2+10	STH 60 east	259	0	4" removal
				TOTAL 0010	45389	255496	

3

PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT)

CATEGORY	STATION	TO	STATION	LOCATION	211.0100 LS	REMARKS
0010	14+25 'STH 60'	-	20+00 'STH 60'	M/L		STH 60 MAINLINE
	0+00	-	78+88	M/L		USH 61 MAINLINE
	80+21	-	612+50	M/L		USH 61 MAINLINE
				TOTAL 0010	1	

GRADING SHAPING & FINISHING INTERSECTION (GRAY RD)

CATEGORY	STATION	LOCATION	205.9015.S LS	REMARKS	FOR INFORMATION ONLY: EXCAVATION COMMON CY	CUT CY	SALVAGE TOPSOIL CY	FERTILIZER TYPE B CWT	SEEDING MIXTURE NO.20 LB	SEEDING TEMPORARY LB	MULCH SY
0010	367+91	Rt	1	Gray RD	100	50	13	0.1	11	11	422
		TOTAL 0010	1								

ABANDON CULVERT PIPE

CATEGORY	STATION	LOCATION	ABANDON CULV.PIPE 204.0270 EACH	BACKFILL CONTROLLED LOW STRENGTH 209.0200.S CY	REMARKS
0010	458+32	USH 61 / CTH W	1	79	72" CMCP
		TOTAL 0010	1	79	

AGGREGATE & GEOGRID

CATEGORY	STATION	TO	STATION	LOCATION	BAD 3/4-Inch 305.0110 TON	BAD 1 1/4-Inch 305.0120 TON	SELECT CRUSHED 312.0110 TON	GEOGRID TYPE SR 645.0220 SY	REMARKS
0010	14+25 'STH 60'	-	612+50	RT & LT	2175				Mainline Shoulders
	458+12	-	470+27	CTH W Turn Ln		211			new embankment base
	Varies			Not Distributed		2500		5000	at geo grid replacement areas
	Varies			Not Distributed			5000		Not Distributed
				TOTAL 0010	2175	2711	5000	5000	

EARTH WORK SUMMARY TABLE

Division	From / To Station	Location	Common Excavation (1)	EBS Excavation (3)	Salvaged / Unusable Pavement Material (4)	Available Material (5)	Reduced EBS in Fill (9)	Unexpanded Fill	Expanded Fill (13)	Mass Ordinate + / - (14)	Waste	Borrow	Comments:
			Cut (2)				Factor 0.80		Factor 1.25				
Division 1													
CTH W	458+13 to 461+63	Mainline	93	0	0	93	0	2251	2814	-2721	0	2709	New Turn Lane
			93	0	0	93	0	2251	2814	-2721	0	2709	
Division 1 Total		Total Common Ex	93										

1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
2) Salvaged/Unsuable Pavement Material is included in Cut.
5) Available Material = Cut - Salvaged/Unusuable Pavement Material
13) Expanded Fill. Factor = 1.25
Depending on selections:

Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh - Reduced EBS) * Fill Factor

Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced EBS) * Fill Factor
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh) * Fill Factor
Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor) * Fill Factor

14) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.
15) Borrow Excavation item number 208.0100

ASPHALTIC CONCRETE PAVEMENT ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	TACK COAT 455.0605 GAL	HMA PAVEMENT 4 LT 58-28 S 460.5224 TON	REHEATING LONG. JOINT 460.4110.S LF	ASPHALTIC SURFACE DRIVEWAY & FE 465.0120 TON	REMARKS
0010	0+00	-	5+50	NB & SB	201	322			2" thick
	5+50	-	8+67	mainline	70	316			4" thick
	8+67	-	62+50	mainline	1027	4608			4" thick
	62+50	-	67+50	mainline	192	861			4" thick
	67+50	-	78+88	mainline	228	1024			4" thick
	80+21	-	176+42	mainline	1924	8624			4" thick
	176+42	-	193+19	mainline	419	1878			4" thick
	193+19	-	258+86	mainline	1313	5884			4" thick
	258+86	-	317+67	mainline	1192	5283			4" thick
	317+67	-	367+91	mainline	1005	4506			4" thick
	367+91	-	382+40	mainline	290	1298			4" thick
	382+40	-	472+50	mainline	2253	10111			includes climbing lane
	472+50	-	522+28	mainline	996	4464			4" thick
	522+28	-	571+96	mainline	994	4455			4" thick
	571+96	-	612+50	mainline	811	3640			4" thick
	14+25'STH60'	-	20+00'STH60'	EB & WB	134	301			2" thick
	0+18'STH60E'	-	2+10'STH60E'	EB & WB	69	311			4" thick
	16+00 'STH60'					21			Easter Rock Lane
	65+00					97			Marietta Valley Rd
	56+70			RT				26	PE
	157+62			RT				11	PE
	166+25			RT				14	PE
	176+15'NR'	-	176+92 'NR'			68			N Irish Ridge Rd
	194+10 'MVN'	-	194+85 'MVN'			77			Marietta Valley Rd
	200+57							18	PE
	257+85 'SH'	-	257+57 'SH'			57			Spencer Hill Rd
	284+15 'GH'	-	284+85 'GH'			85			Graham Hollow Rd
	294+15 'BC'	-	294+45 'BC'			19			Bear Cave Ln.
	316+50							14	PE
	317+93 'CH'	-	318+35 'CH'			58			Byers/Child Hollow Rd
	357+15 'LA'	-	357+57 'LA'			43			Long Ago Lane
	368+15 'GR'	-	368+67 'GR'			55			Gray Rd
	405+56 'FR'	-	406+04 'FR'			29			Fry Ln
	428+26 'CL'	-	428+60 'CL'			42			Coalburn Rd
	427+10 'MZ'	-	427+60 'MZ'			65			Mt. Zion Rd
	456+60 'CW'	-	457+20 'CW'			69			CTH W
	457+71 'CW'	-	458+45 'CW'			87			CTH W
	478+61 'CS'	-	479+56 'CS'			97			CTH S
	480+01 'CS'	-	480+77 'CS'			82			CTH S
	506+18 'RT'	-	506+55 'RT'			51			Roth Ln
	508+07 'WH'	-	508+51 'WH'			69			Wheatville Rd
	522+18 'YG'	-	522+55 'YG'			45			Young Ln
	546+18 'HP'	-	546+43 'HP'			16			Happy Place Ln
	566+10 'HL'	-	566+41 'HL'			29			Hope Ln
	572+18 'SH'	-	572+84 'SH'			70			Sleepy Hollow Rd
	573+44 'BL'	-	573+91 'BL'			53			Belgium Ln
	610+18 'JM'	-	610+45 'JM'			18			Jim's Dr
	0+79 'BC'	-	1+57 'BC'			67			Bell Ridge Rd
	14+25 'STH 60'	-	20+00 'STH 60'				575		M/L
	0+00		612+50				61250		M/L
	383+45		469+00				8555		Truck Climbing Lane
				TOTAL 0010	13118	59355	70380	83	

RUMBLE STRIPS

CATEGORY	STATION	TO	STATION	LOCATION	ASPHALTIC SHOULDER RUMBLE STRIPS 2 LANE RURAL 465.0425 LF	ASPHALTIC CENTER LINE RUMBLE STRIPS 2 LANE RURAL 465.0475 LF	REMARKS
0010	0+00	-	62+00	LT	6200		STH 60 west to STH 60 east
	9+00	-	62+78	CL		5378	STH 60 west to STH 60 east
	2+75	-	59+10	RT	5635		STH 60 west to STH 60 east
	67+50	-	78+63	LT	1113		STH 60 east to B-12-19
	66+78	-	78+63	CL		1185	STH 60 east to B-12-19
	67+00	-	78+63	RT	1163		STH 60 east to B-12-19
	80+46	-	176+42	LT	9596		B-12-19 to N Irish Ridge
	80+46	-	174+42	CL		9396	B-12-19 to N Irish Ridge
	80+46	-	175+25	RT	9479		B-12-19 to N Irish Ridge
	176+42	-	191+50	LT	1508		N Irish Ridge to Marietta
	178+42	-	191+19	CL		1277	N Irish Ridge to Marietta
	178+00	-	193+19	RT	1519		N Irish Ridge to Marietta
	194+50	-	257+40	LT	6290		Marietta to Spencer Hill
	195+19	-	256+86	CL		6167	Marietta to Spencer Hill
	193+19	-	257+00	RT	6381		Marietta to Spencer Hill
	260+10	-	283+96	LT	2386		Spencer Hill to Graham Hollow
	260+86	-	281+96	CL		2110	Spencer Hill to Graham Hollow
	259+50	-	282+00	RT	2250		Spencer Hill to Graham Hollow
	283+96	-	316+20	LT	3224		Graham Hollow to Childs Hollow
	287+96	-	315+67	CL		2771	Graham Hollow to Childs Hollow
	285+50	-	317+67	RT	3217		Graham Hollow to Childs Hollow
	318+50	-	357+26	LT	3876		Childs Hollow to Long Ago Lane
	319+67	-	355+26	CL		3559	Childs Hollow to Long Ago Lane
	317+67	-	356+00	RT	3833		Childs Hollow to Long Ago Lane
	357+26	-	365+91	LT	865		Long Ago Lane to Gray Rd
	359+26	-	365+91	CL		665	Long Ago Lane to Gray Rd
	358+75	-	365+91	RT	716		Long Ago Lane to Gray Rd
	369+91	-	425+62	CL		5571	Gray Rd to Coalburn
	429+67	-	455+44	CL		2577	Old 61 to CTH W
	459+44	-	477+79	CL		1835	CTH W to CTH S
	481+79	-	504+09	CL		2230	CTH S to Roth Ln
	508+65	-	547+00	CL		3835	Wheatville Rd to Happy Place
	547+00	-	570+75	LT	2375		Happy Place to S Sleepy Hollow
	547+00	-	569+96	CL		2296	Happy Place to S Sleepy Hollow
	547+00	-	570+40	RT	2340		Happy Place to S Sleepy Hollow
	574+00	-	608+00	LT	3400		Belgium to Bell Ridge
	574+35	-	607+67	CL		3332	Belgium to Bell Ridge
	573+50	-	609+00	RT	3550		Belgium to Bell Ridge
	611+00	-	612+50	LT	150		Bell Ridge to end of project
	611+83	-	612+50	CL		67	Bell Ridge to end of project
	611+00	-	612+50	RT	150		Bell Ridge to end of project
				TOTAL 0010	81216	54251	

EROSION CONTROL ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	SALVAGED TOPSOIL 625.0500 SY	MULCHING 627.0200 SY	SILT FENCE 628.1504 LF	SILT FENCE MAINTENANCE 628.1520 LF	E-MAT CLASS I TYPE B 628.2004 SY	FERTILIZER TYPE B 629.0210 CWT	SEEDING MIXTURE NO. 20 630.0120 LB	SEEDING TEMPORARY 630.0200 LB	REMARKS
0010	64+10			RT	167	167	135	135		0.1	7	7	STH 60
	65+35			RT	155	155	115	115		0.1	6	6	STH 60
	268+55	-	269+40	LT			125	125					(Beamguard EAT)
	272+40	-	274+30	RT			250	250					(Beamguard EAT)
	294+18			LT	97	97	55	55		0.1	4	4	Bear Cave LN
	367+57			RT			100	100					Gray RD
	368+28			RT			130	130					Gray RD
	458+08	-	461+68	LT	2106		395	395	2106	0.7	62	62	CTH W
	545+40	-	547+00	LT			210	210					(Beamguard EAT)
	552+20	-	553+05	LT			117	117					(Beamguard EAT)
	586+20	-	587+80	LT			192	192					(Beamguard EAT)
	594+20	-	595+10	LT			126	126					(Beamguard EAT)
	Varies			LT/RT		105	488	488	527		21	21	
				TOTAL 0010	2525	524	2438	2438	2633	1	100	100	

CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	REMOVING CURB 204.0130 LF	REMOVING CURB AND GUTTER 204.0150 LF	CONCRETE SURFACE DRAINS 416.1010 CY	CONCRETE CURB TYPE J 601.0120 LF	4-INCH SLOPED 36-INCH TYPE D C&G 601.0553 LF	6-INCH SLOPED 36-INCH TYPE D C&G 601.0557 LF	SAWING CONCRETE 690.0250 LF	REMARKS
0010	0+28'60E'	-	0+33'60E'	MEDIAN ISLAND	5			5			6	USH 61/STH 60 East - Island Curb
	64+25			RT		113				113		USH 61/STH 60 East - SE Quad Curb
	65+40			RT		105				105		USH 61/STH 60 East - NE Quad Curb
	397+57	-	416+75	RT					1918			Along Truck Climbing Lane
	397+65						1					Along Truck Climbing Lane
	401+26						1					Along Truck Climbing Lane
	404+80						1					Along Truck Climbing Lane
	408+47						1					Along Truck Climbing Lane
	411+67						1					Along Truck Climbing Lane
				TOTAL 0010	5	218	5	5	1918	218	6	

INLET PROTECTION TYPE C

CATEGORY	STATION	LOCATION	628.7015 EACH
0010	16+40'STH60'	RT	2
	16+50'STH60'	RT	1
	17+53'STH60'	RT	2
	18+68'STH60'	RT	2
	0+55	RT	1
	3+70	RT	2
	5+32	RT	1
		TOTAL 0010	11

WATER

CATEGORY	STATION	TO	STATION	LOCATION	624.0100 MGAL	REMARKS
0010	14+25 'STH 60'	-	612+50	USH 61, Lt	75	Base Aggregate Shldr
	14+25 'STH 60'	-	612+50	USH 61, Rt	75	Base Aggregate Shldr
	14+25 'STH 60'	-	612+50	USH 61	270	Milled & Relaid Pvmnt
	14+25 'STH 60'	-	612+50	Side Roads	20	Side Roads
	14+25 'STH 60'	-	612+50	USH 61	720	Dust Control
				TOTAL 0010	1160	

CULVERT PIPE SUMMARY

CATEGORY	STATION	LOCATION	Culvert Pipe Corr. Steel 24" 521.0124 LF	Culvert Pipe Corr. Steel 72" 521.0172 LF	Apron Endwall Culv. Pipe Steel 24" 521.1024 EACH	Apron Endwall Culv. Pipe Steel 72" 521.1072 EACH	REMARKS
0010	294+20	Lt		4		1	USH 61/Bear Cave LN Extension
	367+44	Rt				1	USH 61/Gray RD Endwall
	367+91	Rt			1		Gray RD/USH 61 (North) Endwall
	367+91	Rt	2		1		Gray RD/USH 61 (South) Extension
	458+50	Lt	8		1		CTH W/USH 61 Extenstion
		TOTAL 0010	10	4	3	2	

MGS GUARDRAIL ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	614.2300 MGS GUARDRAIL 3 LF	614.2330 MGS Guardrail 3K LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	614.0010 BARRIER SYSTEM GRADING SHAPING FINISHING EACH	REMARKS	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON*	FOR INFORMATION ONLY TOPSOIL CY	MULCHING SY	FERTILIZER TYPE B CWT	SEEDING MIXTURE NO. 20 LB	SEEDING TEMPORARY LB
0010	18+85 'STH 60'	-	19+70 'STH 60'	Rt	66		39	1		35' Radius of MGS 3 (Field Verify)	7.0					
	0+18	-	12+15	Rt	1182		39	1		55' Radius of MGS 3 (Field Verify)	7.0					
	25+09	-	51+90	Rt	2575			2			14.0					
	57+35	-	61+29	Rt	288			2			14.0					
	77+20	-	77+73	Rt				1		SE quadrant Bridge EAT only	7.0					
	77+17	-	77+70	Lt				1		SW quadrant Bridge EAT only	7.0					
	84+47	-	85+00	Rt				1		NE quadrant Bridge EAT only	7.0					
	84+99	-	85+52	Lt				1		NW quadrant Bridge EAT only	7.0					
	269+80	-	272+99	Rt	213			2	1	Richland Creek Box Culvert	14.0	59.3	178.0	0.1	4.8	4.8
	268+76	-	272+07	Lt	225			2	1	Richland Creek Box Culvert	14.0	39.0	117.0	0.1	3.2	3.2
	301+38	-	316+31	Lt	1387			2			14.0					
	319+23	-	329+16	Lt	887			2			14.0					
	397+04	-	412+47	Rt		1437		2		(Along Truck Climbing Lane)	14.0					
	410+81	-	415+12	Lt	325			2			14.0					
	413+07	-	417+00	Rt		287		2		(Along Truck Climbing Lane)	14.0					
	424+44	-	427+47	Rt	250			1		55' Radius of MGS 3 (Field Verify) (CONNECT TO EXIST COALBURN RD BEAMGUARD)	7.0					
	427+79	-	439+66	Rt	1134			1		50' Radius of MGS 3 (Field Verify) (CONNECT TO EXIST COALBURN RD BEAMGUARD)	7.0					
	433+67	-	443+48	Lt	875			2			14.0					
	510+90	-	517+46	Rt	550			2			14.0					
	546+33	-	552+89	Lt	550			2	2		14.0	79.0	237.0	0.1	6.4	6.4
	579+19	-	585+62	Lt	537			2			14.0					
	587+09	-	594+90	Lt	675			2	2		14.0	73.7	221.0	0.1	6.0	6.0
			TOTAL 0010		11719	1724	78	36	6		252.00					

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

PERMANENT SIGNING SUMMARY (1 OF 7)

CATEGORY	POST NUMBER	APPROX. STATION	LOCATION	POSITION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIGN SIZE IN X IN	SIGNS TYPE II REFLECTIVE H 637.2210 SF	SIGNS TYPE II REFLECTIVE F 637.2230 SF	POSTS WOOD 4X6-INCH 14-FT 634.0614 EACH	POSTS WOOD 4X6-INCH 16-FT 634.0616 EACH	POSTS WOOD 4X6-INCH 18-FT 634.0618 EACH	REMOVING SIGNS TYPE II 638.2602 EACH	REMOVING SMALL SIGN SUPPORTS 638.3000 EACH	MOVING SMALL SIGN SUPPORTS 638.4000 EACH	SIGN MOUNTED ON SAME POST AS
0010	1-00R	14+20'STH60'	STH 60	RIGHT	D1-3	THREE DESTINATIONS (ARROWS)	[AHEAD ARROW] SOLDIERS GROVE	96X36	---	---	---	---	---	1	2	---	
							[AHEAD ARROW] GOTHAM	---	---	---	---	---	---	---	---	---	
							BOSCOBEL [RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	1-01	14+20'STH60'	STH 60	RIGHT	D1-3	THREE DESTINATIONS (ARROWS)	[AHEAD ARROW] SOLDIERS GROVE	96X36	24.00	---	1	1	---	---	---	---	
							[AHEAD ARROW] GOTHAM	---	---	---	---	---	---	---	---	---	
							BOSCOBEL [RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	1-02R	14+20'STH60'	STH 60	RIGHT	D9-2	HOSPITAL	HOSPITAL	24X24	---	---	---	---	---	1	1	---	
					MB6-1	DIRECTIONAL ARROW	[RIGHT ARROW]	21X21	---	---	---	---	---	---	---	---	
	1-03R	15+00'STH60'	STH 60	LEFT	M2-1	JUNCTION MARKER	JCT	21X15	---	---	---	---	---	1	1	---	
					M1-5A	COUNTY MARKER	E	24X24	---	---	---	---	---	---	---	---	
	1-04	15+00'STH60'	STH 60	LEFT	J1-1	JUNCTION ASSEMBLY	JCT	24X39	6.50	---	---	1	---	---	---	---	
							E	---	---	---	---	---	---	---	---	---	
	1-05R	15+90'STH60'	EASTER ROCK LN	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	1-06	15+90'STH60'	EASTER ROCK LN	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	1-07R	16+55'STH60'	STH 60	MEDIAN	R4-7	KEEP RIGHT		24X30	---	---	---	---	---	1	1	---	
	1-08	16+55'STH60'	STH 60	MEDIAN	R4-7	KEEP RIGHT		36X48	12.00	---	1	---	---	---	---	---	1-09
	1-09	16+55'STH60'	STH 60	MEDIAN	W5-54D	CLEARANCE MARKER		18X18	---	2.25	---	---	---	---	---	---	1-08
	1-10R	16+60'STH60'	STH 60	LEFT	R5-1	DO NOT ENTER		30X30	---	---	---	---	---	1	1	---	1-12R
	1-11	16+60'STH60'	STH 60	LEFT	R5-1	DO NOT ENTER		36X36	9.00	---	1	---	---	---	---	---	
	1-12R	16+60'STH60'	STH 60	LEFT	R59-51	STOP FOR BUS FLASHING LIGHTS		24X24	---	---	---	---	---	1	---	---	1-10R
	1-13R	17+40'STH60'	STH 60	LEFT	R5-1A	WRONG WAY		36X24	---	---	---	---	---	1	1	---	1-15R
	1-14	17+40'STH60'	STH 60	LEFT	R5-1A	WRONG WAY		36X24	6.00	---	1	---	---	---	---	---	
	1-15R	17+40'STH60'	STH 60	LEFT	M3-4	WEST CARDINAL ROUTE MARKER	WEST	24X12	---	---	---	---	---	1	---	---	1-13R
					M1-6	STATE ROUTE MARKER	60	24X24	---	---	---	---	---	---	---	---	
	1-16	17+50'STH60'	STH 60	LEFT	J4-2	REASSURANCE ASSEMBLY (2 HEADED ROUTE PANEL)	WEST	48X36	12.00	---	---	1	---	---	---	---	
							60 STATE-SCENIC-BYWAY	---	---	---	---	---	---	---	---	---	
	1-17R	18+00'STH60'	STH 60	LEFT	D6-4-S	STATE SCENIC BYWAY		24X24	---	---	---	---	---	1	1	---	
	1-18R	18+70'STH60'	STH 60	LEFT	W6-2	DIVIDED HIGHWAY ENDS SYMBOL		36X36	---	---	---	---	---	1	1	---	
	1-19	18+70'STH60'	STH 60	LEFT	W6-2	DIVIDED HIGHWAY ENDS SYMBOL		36X36	---	9.00	---	1	---	---	---	---	
	1-20R	19+10'STH60'	STH 60	RIGHT	J3-3	DIRECTIONAL ASSEMBLY (3 HEADED ROUTE PANEL)	NORTH-EAST-SOUTH	72X57	---	---	---	---	---	1	2	---	
							61 60 61	---	---	---	---	---	---	---	---	---	
							[ARROW AHEAD][ARROW AHEAD][RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	1-21	19+20'STH60'	STH 60	RIGHT	J3-1	DIRECTIONAL ASSEMBLY (1 HEADED ROUTE PANEL)	SOUTH	24X57	9.50	---	---	---	1	---	---	---	1-26
							61	---	---	---	---	---	---	---	---	---	
							[RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	1-22R	19+55'STH60'	STH 60	MEDIAN	R4-7	KEEP RIGHT		24X30	---	---	---	---	---	1	1	---	
	1-23	19+55'STH60'	STH 60	MEDIAN	R4-7	KEEP RIGHT		24X30	5.00	---	1	---	---	---	---	---	
	1-24	17+60'STH60'	STH 60	RIGHT	R5-1A	WRONG WAY		36X24	6.00	---	1	---	---	---	---	---	
	1-25R	0+85'61SB'	USH 61	LEFT	I3-1	LAKE OR RIVER NAME	WISCONSIN	36X21	---	---	---	---	---	1	1	---	
							RIVER	---	---	---	---	---	---	---	---	---	
	1-26	19+20'STH60'	STH 60	RIGHT	R5-1	DO NOT ENTER		30X30	6.25	---	---	---	---	---	---	---	1-21
	1-27R	0+85'61SB'	USH 61	LEFT	I2-2	COUNTY LINE NAME	GRANT CO	54X15	---	---	---	---	---	1	2	---	
	1-28	0+85'61SB'	USH 61	LEFT	I2-2 MOD	COUNTY LINE NAME AND RIVER NAME	GRANT CO	60X36	15.00	---	---	2	---	---	---	---	
							WISCONSIN	---	---	---	---	---	---	---	---	---	
							RIVER	---	---	---	---	---	---	---	---	---	
	1-29	0+00	USH 61	LEFT	J3-3	DIRECTIONAL ASSEMBLY (3 HEADED ROUTE PANEL)	WEST-NORTH-EAST	72X57	28.50	---	---	2	---	---	---	---	1-30
							60 61 60	---	---	---	---	---	---	---	---	---	
							[LEFT ARROW][RIGHT ARROW][RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	1-30	0+00	USH 61	LEFT	W1-7	NIGHT ARROW (DOUBLE)		60X30	---	12.50	---	---	---	---	---	---	1-29
	1-31R	0+00	USH 61	LEFT	J3-3	DIRECTIONAL ASSEMBLY (3 HEADED ROUTE PANEL)	WEST-NORTH-EAST	72X57	---	---	---	---	---	1	2	---	
							60 61 60	---	---	---	---	---	---	---	---	---	
							[LEFT ARROW][RIGHT ARROW][RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
					W1-7	NIGHT ARROW (DOUBLE)		60X30	---	---	---	---	---	---	---	---	
	1-32R	0+50'61SB'	USH 61	ISLAND	W12-1D	DOUBLE DOWN ARROWS		24X24	---	---	---	---	---	1	---	---	
	1-33	0+50'61SB'	USH 61	ISLAND	W12-1D	DOUBLE DOWN ARROWS		24X24	---	4.00	---	---	---	---	---	---	REPLACE SIGNS ON EXISTING POST
	1-34	0+30'61SB'	USH 61	ISLAND	R1-1	STOP		48X48	13.25	---	---	---	---	---	---	---	1-35, REPLACE SIGNS ON EXISTING FLASHING POLE
	1-35	0+30'61SB'	USH 61	ISLAND	R6-3A	DIVIDED HIGHWAY CROSSING T INTERSECTION		30X24	5.00	---	---	---	---	---	---	---	1-34, REPLACE SIGNS ON EXISTING FLASHING POLE
	1-36R	0+30'61SB'	USH 61	ISLAND	R1-1	STOP		48X48	---	---	---	---	---	1	---	---	1-37R
	1-37R	0+30'61SB'	USH 61	ISLAND	R6-3A	DIVIDED HIGHWAY CROSSING T INTERSECTION		30X24	---	---	---	---	---	1	---	---	1-36R
	1-38	0+90'61SB'	USH 61	RIGHT	J3-3	DIRECTIONAL ASSEMBLY (3 HEADED ROUTE PANEL)	WEST-NORTH-EAST	72X57	28.50	---	---	---	2	---	---	---	
							60 61 60	---	---	---	---	---	---	---	---	---	
							[LEFT ARROW][RIGHT ARROW][RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	1-39R	0+90'61SB'	USH 61	RIGHT	J3-3	DIRECTIONAL ASSEMBLY (3 HEADED ROUTE PANEL)	WEST-NORTH-EAST	72X57	---	---	---	---	---	1	2	---	
							60 61 60	---	---	---	---	---	---	---	---	---	
							[LEFT ARROW][RIGHT ARROW][RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	1-40	0+45'61SB'	USH 61	RIGHT	R1-1	STOP		36X36	7.46	---	---	1	---	---	---	---	
	1-41R	0+45'61SB'	USH 61	RIGHT	R1-1	STOP		36X36	---	---	---	---	---	1	1	---	
							SUBTOTALS		199.14	27.75	7	9	3	21	21	0	

PERMANENT SIGNING SUMMARY CONTINUED (2 OF 7)

CATEGORY	POST NUMBER	APPROX. STATION	LOCATION	POSITION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIGN SIZE IN X IN	SIGNS TYPE II REFLECTIVE H 637.2210 SF	SIGNS TYPE II REFLECTIVE F 637.2230 SF	POSTS WOOD 4X6-INCH 14-FT 634.0614 EACH	POSTS WOOD 4X6-INCH 16-FT 634.0616 EACH	POSTS WOOD 4X6-INCH 18-FT 634.0618 EACH	REMOVING SIGNS TYPE II 638.2602 EACH	REMOVING SMALL SIGN SUPPORTS 638.3000 EACH	MOVING SMALL SIGN SUPPORTS 638.4000 EACH	SIGN MOUNTED ON SAME POST AS
0010	1-42	0+60	USH 61	MEDIAN	R4-7	KEEP RIGHT		24X30	5.00	---	1	---	---	---	---	---	
	1-43R	0+60	USH 61	MEDIAN	R4-7	KEEP RIGHT		24X30	---	---	---	---	---	1	1	---	
	1-44	1+11	USH 61	LEFT	J3-1	DIRECTIONAL ASSEMBLY (1 HEADED ROUTE PANEL)	SOUTH	24X57	9.50	---	---	1	---	---	---	---	
							61	---	---	---	---	---	---	---	---	---	
							[LEFT ARROW]	---	---	---	---	---	---	---	---	---	
	1-45R	1+11	USH 61	LEFT	J3-2	DIRECTIONAL ASSEMBLY (2 HEADED ROUTE PANEL)	SOUTH-WEST	48X57	---	---	---	---	---	1	1	---	
							61 60	---	---	---	---	---	---	---	---	---	
							[LEFT ARROW][AHEAD ARROW]	---	---	---	---	---	---	---	---	---	
	1-46R	2+31	USH 61	RIGHT	D6-4-S	STATE SCENIC BYWAY		24X24	---	---	---	---	---	1	1	---	
	1-47R	2+32	USH 61	RIGHT	J4-2	REASSURANCE ASSEMBLY (2 HEADED ROUTE PANEL)	NORTH-EAST	48X36	---	---	---	---	---	1	1	---	
							61 60	---	---	---	---	---	---	---	---	---	
	1-48	2+32	USH 61	RIGHT	J4-3	DIRECTIONAL ASSEMBLY (3 HEADED ROUTE PANEL)	NORTH-EAST	72X36	18.00	---	---	1	1	---	---	---	
							61 60 STATE-SCENIC-BYWAY	---	---	---	---	---	---	---	---	---	
	1-49R	2+70	USH 61	LEFT	D1-2	TWO DESTINATIONS (ARROWS)	[LEFT ARROW] BOSCOBEL	66X30	---	---	---	---	---	1	2	---	
							WAUZEKA [TILT RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	1-50	5+00	USH 61	LEFT	D1-2	TWO DESTINATIONS (ARROWS)	[AHEAD ARROW] WAUZEKA	66X30	13.75	---	2	---	---	---	---	---	
							[LEFT ARROW] BOSCOBEL	---	---	---	---	---	---	---	---	---	
	1-51	4+11	USH 61	RIGHT	W6-2	DIVIDED HIGHWAY ENDS SYMBOL		36X36	---	9.00	---	1	---	---	---	---	1-53
	1-52R	4+11	USH 61	RIGHT	W6-2	DIVIDED HIGHWAY ENDS SYMBOL		36X36	---	---	---	---	---	1	1	---	1-54R
	1-53	4+11	USH 61	RIGHT	R5-1A	WRONG WAY		36X24	6.00	---	---	---	---	---	---	---	1-51
	1-54R	4+11	USH 61	RIGHT	R5-1A	WRONG WAY		36X24	---	---	---	---	---	1	---	---	1-52R
	1-55R	5+28	USH 61	LEFT	D9-2	HOSPITAL	HOSPTIAL	24X24	---	---	---	---	---	1	1	---	
					MB6-1	DIRECTIONAL ARROW	[LEFT ARROW]	21X21	---	---	---	---	---	---	---	---	
	1-56R	5+32	USH 61	MEDIAN	R4-7	KEEP RIGHT		24X30	---	---	---	---	---	1	1	---	
	1-57	5+32	USH 61	MEDIAN	R4-7	KEEP RIGHT		36X48	12.00	---	1	---	---	---	---	---	1-58
	1-58	5+32	USH 61	MEDIAN	W5-54D	CLEARANCE MARKER		18X18	---	2.25	---	---	---	---	---	---	1-57
	1-59	5+44	USH 61	RIGHT	R5-1	DO NOT ENTER		36X36	9.00	---	---	1	---	---	---	---	
	1-60R	5+44	USH 61	RIGHT	R5-1	DO NOT ENTER		30X30	---	---	---	---	---	1	1	---	
	1-61	16+20'STH60'	STH 60	RIGHT	J13-1	DIRECTIONAL WITHOUT CARDINALS	HOSPITAL	24X45	7.50	---	---	1	---	---	---	---	
							[RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	1-62	3+00	USH 61	LEFT	J13-1	HOSPITAL	HOSPTIAL	24X45	7.50	---	---	1	---	---	---	---	
						DIRECTIONAL ARROW	[LEFT ARROW]	---	---	---	---	---	---	---	---	---	
	1-63M	7+85	USH 61	LEFT	"---	SIS - FOOD & LODGING SIGN		---	---	---	---	---	---	---	---	1	TO BE MOVED BY OTHERS IF NECESSARY
	1-64	8+85	USH 61	RIGHT	W6-3	TWO-WAY TRAFFIC SYMBOL		36X36	---	9.00	---	1	---	---	---	---	
	1-65	9+97	USH 61	LEFT	J2-2	DIRECTIONAL ASSEMBLY (2 HEADED ROUTE PANEL)	SOUTH-WEST	48X57	19.00	---	---	---	1	---	---	---	
							61 60	---	---	---	---	---	---	---	---	---	
							[LEFT ARROW][AHEAD ARROW]	---	---	---	---	---	---	---	---	---	
	1-66R	9+97	USH 61	LEFT	J2-2	DIRECTIONAL ASSEMBLY (2 HEADED ROUTE PANEL)	SOUTH-WEST	48X57	---	---	---	---	---	1	1	---	
							61 60	---	---	---	---	---	---	---	---	---	
							[LEFT ARROW][TILT RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	1-67	12+00	USH 61	RIGHT	R2-1	SPEED LIMIT _MPH	55	24X30	5.00	---	1	---	---	---	---	---	
	1-68R	13+73	USH 61	RIGHT	W6-3	TWO-WAY TRAFFIC SYMBOL		36X36	---	---	---	---	---	1	---	---	1-68R
	1-69	13+73	USH 61	RIGHT	W14-3	NO PASSING ZONE		48X36	---	6.00	---	1	---	---	---	---	
	1-70R	13+73	USH 61	RIGHT	W14-3	NO PASSING ZONE		48X36	---	---	---	---	---	1	1	---	1-66R
	1-71R	14+00	USH 61	LEFT	W6-1	DIVIDED HIGHWAY AHEAD SYMBOL		36X36	---	---	---	---	---	1	1	---	
	1-72	14+00	USH 61	LEFT	W6-1	DIVIDED HIGHWAY AHEAD SYMBOL		36X36	---	9.00	---	1	---	---	---	---	
	1-73	18+00	USH 61	LEFT	W14-3	NO PASSING ZONE		48X36	---	6.00	1	---	---	---	---	---	
	1-74R	18+00	USH 61	LEFT	W14-3	NO PASSING ZONE		48X36	---	---	---	---	---	1	1	---	
	1-75M	17+40'STH60'	STH 60	LEFT	---	SEASONAL WEIGHT RESTRICTION SIGNING		---	---	---	---	---	---	---	---	1	TO BE MOVED IF NECESSARY
	2-01	34+00	USH 61	RIGHT	W14-3	NO PASSING ZONE		48X36	---	6.00	---	1	---	---	---	---	
	2-02R	34+00	USH 61	RIGHT	W14-3	NO PASSING ZONE		48X36	---	---	---	---	---	1	1	---	
	2-03	34+75	USH 61	LEFT	W14-3	NO PASSING ZONE		48X36	---	6.00	1	---	---	---	---	---	
	2-04R	34+75	USH 61	LEFT	W14-3	NO PASSING ZONE		48X36	---	---	---	---	---	1	1	---	
	2-05R	39+90	USH 61	RIGHT	W8-14	FALLEN ROCKS		36X36	---	---	---	---	---	1	1	---	
	2-06	39+90	USH 61	RIGHT	W8-14	FALLEN ROCKS		36X36	---	9.00	---	1	---	---	---	---	
	3-01R	55+65	USH 61	RIGHT	M1-94	CROSSROAD NAME	MARIETTA VALLEY RD	102X15	---	---	---	---	---	1	2	---	
	3-02	56+00	USH 61	RIGHT	J3-2	DIRECTIONAL ASSEMBLY (2 HEADED ROUTE PANEL)	NORTH-EAST	48X57	19.00	---	---	---	1	---	---	---	
							61 60	---	---	---	---	---	---	---	---	---	
							[AHEAD ARROW][RIGHT TURN ARROW]	---	---	---	---	---	---	---	---	---	
	3-03R	57+50	USH 61	LEFT	R2-1	SPEED LIMIT _MPH	55	24X30	---	---	---	---	---	1	1	---	
	3-04	57+50	USH 61	LEFT	R2-1	SPEED LIMIT _MPH	55	24X30	5.00	---	1	---	---	---	---	---	
	3-05	58+00	USH 61	RIGHT	D1-1	ONE DESTINATION (ARROW)	[LEFT ARROW] MARIETTA VALLEY RD	114X15	11.88	---	2	---	---	---	---	---	
	3-06R	58+50	USH 61	RIGHT	J3-2	DIRECTIONAL ASSEMBLY (2 HEADED ROUTE PANEL)	NORTH-EAST	48X57	---	---	---	---	---	1	1	---	
							61 60	---	---	---	---	---	---	---	---	---	
							[LEFT BENT ARROW][RIGHT TURN ARROW]	---	---	---	---	---	---	---	---	---	
	3-07	60+00	USH 61	RIGHT	D1-2	DOUBLE DESTINATION (ARROWS)	[AHEAD ARROW] SOLDIERS GROVE	96X30	20.00	---	1	1	---	---	---	---	
							GOTHAM [RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
							SUBTOTALS		168.13	62.25	11	12	3	21	21	2	

PERMANENT SIGNING SUMMARY CONTINUED (3 OF 7)

CATEGORY	POST NUMBER	APPROX. STATION	LOCATION	POSITION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIGN SIZE IN X IN	SIGNS TYPE II REFLECTIVE H 637.2210 SF	SIGNS TYPE II REFLECTIVE F 637.2230 SF	POSTS WOOD 4X6-INCH 14-FT 634.0614 EACH	POSTS WOOD 4X6-INCH 16-FT 634.0616 EACH	POSTS WOOD 4X6-INCH 18-FT 634.0618 EACH	REMOVING SIGNS TYPE II 638.2602 EACH	REMOVING SMALL SIGN SUPPORTS 638.3000 EACH	MOVING SMALL SIGN SUPPORTS 638.4000 EACH	SIGN MOUNTED ON SAME POST AS
0010	3-08R	61+00	USH 61	RIGHT	D1-3	TRIPLE DESTINATION (ARROWS)	[TILT LEFT ARROW] SOLDIERS GROVE	60X40	---	---	---	---	---	1	2	---	
							[TILT LEFT ARROW] LA CROSSE	---	---	---	---	---	---	---	---	---	
							GOTHAM [RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	3-09R	61+10	USH 61	LEFT	W8-54	WATCH FOR FALLEN ROCKS		36X36	---	---	---	---	---	1	1	---	
	3-10	61+10	USH 61	LEFT	W8-14	FALLEN ROCKS		36X36	---	9.00	---	1	---	---	---	---	
	3-11R	62+75	USH 61	LEFT	J4-2	REASSURANCE ASSEMBLY (2 HEADED ROUTE PANEL)	WEST-SOUTH	48X36	---	---	---	---	---	1	1	---	
							60 61	---	---	---	---	---	---	---	---	---	
	3-12	62+75	USH 61	LEFT	J4-3	REASSURANCE ASSEMBLY (3 HEADED ROUTE PANEL)	WEST-SOUTH	72X36	18.00	---	1	1	---	---	---	---	
							60 61 STATE-SCENIC-BYWAY	---	---	---	---	---	---	---	---	---	
	3-13R	62+80	USH 61	LEFT	D6-4-S	STATE SCENIC BYWAY		24X24	---	---	---	---	---	1	1	---	
	3-14R	63+85	USH 61	RIGHT	J3-2	DIRECTIONAL ASSEMBLY (2 HEADED ROUTE PANEL)	NORTH-EAST	48X57	---	---	---	---	---	1	1	---	
							61 60	---	---	---	---	---	---	---	---	---	
							[TILT LEFT ARROW][RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	3-15	63+85	USH 61	RIGHT	J3-2	DIRECTIONAL ASSEMBLY (2 HEADED ROUTE PANEL)	EAST	48X57	19.00	---	---	1	---	---	---	---	
							60 SCENIC BYWAY	---	---	---	---	---	---	---	---	---	
							[RIGHT ARROW][RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	3-16R	63+85	USH 61	RIGHT	D6-4-S	STATE SCENIC BYWAY		24x24	---	---	---	---	---	1	1	---	
					M6-1	ARROW - RIGHT		21x21	---	---	---	---	---	---	---	---	
	3-17R	64+40	USH 61	LEFT	J3-2	DIRECTIONAL ASSEMBLY (2 HEADED ROUTE PANEL)	SOUTH-WEST	---	---	---	---	---	---	1	1	---	
							61 60	---	---	---	---	---	---	---	---	---	
							[LEFT ARROW][LEFT ARROW]	---	---	---	---	---	---	---	---	---	
	3-18	64+40	USH 61	LEFT	J3-2	DIRECTIONAL ASSEMBLY (2 HEADED ROUTE PANEL)	SOUTH-WEST	48X57	19.00	---	---	---	1	---	---	---	
							61 60	---	---	---	---	---	---	---	---	---	
							[LEFT ARROW][LEFT ARROW]	---	---	---	---	---	---	---	---	---	
	3-19R	1+55'MVS'	MARIETTA VALLEY RD	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	3-20	1+55'MVS'	MARIETTA VALLEY RD	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	3-21R	0+25'60E'	STH 60	ISLAND	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	3-22	0+25'60E'	STH 60	ISLAND	R1-1	STOP		36X36	7.46	---	1	---	---	---	---	---	
	3-23R	0+45'60E'	STH 60	ISLAND	W12-1D	DOUBLE DOWN ARROWS		24X24	---	---	---	---	---	1	1	---	
	3-24	0+45'60E'	STH 60	ISLAND	W12-1D	DOUBLE DOWN ARROWS		24X24	---	4.00	1	---	---	---	---	---	
	3-25R	0+25'60E'	STH 60	ISLAND	J3-3	DIRECTIONAL ASSEMBLY (3 HEADED ROUTE PANEL)	SOUTH-WEST-NORTH	72X57	---	---	---	---	---	1	2	---	
							61 60 61	---	---	---	---	---	---	---	---	---	
							[LEFT ARROW][LEFT ARROW][RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	3-26	0+25'60E'	STH 60	ISLAND	J3-3	DIRECTIONAL ASSEMBLY (3 HEADED ROUTE PANEL)	SOUTH-WEST-NORTH	72X57	28.50	---	---	2	---	---	---	---	
							61 60 61	---	---	---	---	---	---	---	---	---	
							[LEFT ARROW][LEFT ARROW][RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	3-27	0+50'60E'	STH 60	RIGHT	R1-1	STOP		36X36	7.46	---	1	---	---	---	---	---	
	3-28R	0+50'60E'	STH 60	RIGHT	R1-1	STOP		36X36	---	---	---	---	---	1	1	---	
	3-29	0+55'60E'	STH 60	RIGHT	R5-1	DO NOT ENTER		30X30	6.25	---	1	---	---	---	---	---	
	3-30R	0+55'60E'	STH 60	RIGHT	R5-1	DO NOT ENTER		36X36	---	---	---	---	---	1	1	---	
	3-31R	65+55	USH 61	LEFT	J3-3	DIRECTIONAL ASSEMBLY (3 HEADED ROUTE PANEL)	EAST-WEST-NORTH	72X57	---	---	---	---	---	1	2	---	
							60 60 61	---	---	---	---	---	---	---	---	---	
							[LEFT ARROW][AHEAD ARROW][AHEAD ARROW]	---	---	---	---	---	---	---	---	---	
	3-32	65+55	USH 61	LEFT	J3-1	DIRECTIONAL ASSEMBLY (1 HEADED ROUTE PANEL)	EAST	24X57	9.50	---	---	1	---	---	---	---	
							60	---	---	---	---	---	---	---	---	---	
							[LEFT ARROW]	---	---	---	---	---	---	---	---	---	
	3-33R	67+25	USH 61	RIGHT	J4-1	REASSURANCE ASSEMBLY (1 HEADED ROUTE PANEL)	NORTH	24X36	---	---	---	---	---	1	1	---	
							61	---	---	---	---	---	---	---	---	---	
	3-34	67+25	USH 61	RIGHT	J4-1	REASSURANCE ASSEMBLY (1 HEADED ROUTE PANEL)	NORTH	24X36	6.00	---	---	1	---	---	---	---	
							61	---	---	---	---	---	---	---	---	---	
	3-35R	68+90	USH 61	RIGHT	D2-2	DESTINATION/DISTANCE (TWO)	SOLDIERS GROVE 19	102X24	---	---	---	---	---	1	2	---	
							LA CROSSE 66	---	---	---	---	---	---	---	---	---	
	3-36	68+90	USH 61	LEFT	D1-3	TRIPLE DESTINATION (ARROWS)	[AHEAD ARROW] BOSCOBEL	66X36	16.50	---	---	2	---	---	---	---	
							[AHEAD ARROW] WAUZEKA	---	---	---	---	---	---	---	---	---	
							[LEFT ARROW] GOTHAM	---	---	---	---	---	---	---	---	---	
	3-37	69+50	USH 61	RIGHT	R2-1	SPEED LIMIT _ MPH	55	24X30	5.00	---	1	---	---	---	---	---	
	3-38R	70+35	USH 61	LEFT	D1-3	TRIPLE DESTINATION (ARROWS)	[LEFT ARROW] GOTHAM	66X36	---	---	---	---	---	1	1	---	
							BOSCOBEL [TILT RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
							WAUZEKA [TILT RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	3-39	71+00	USH 61	LEFT	D1-1	ONE DESTINATION (ARROW)	MARIETTA VALLEY RD [RIGHT ARROW]	114X15	11.88	---	2	---	---	---	---	---	
	3-40	72+00	USH 61	RIGHT	D2-2	DESTINATION/DISTANCE (TWO)	SOLDIERS GROVE 19	102X24	17.00	---	1	1	---	---	---	---	
							LA CROSSE 67	---	---	---	---	---	---	---	---	---	
	3-41R	72+30	USH 61	LEFT	M1-94	CROSSROAD NAME	MARIETTA VALLEY RD	102X15	---	---	---	---	---	1	2	---	
	3-42R	72+30	USH 61	RIGHT	R2-1	SPEED LIMIT _ MPH	55	24X30	---	---	---	---	---	1	1	---	
	3-43	73+00	USH 61	LEFT	J3-3	DIRECTIONAL ASSEMBLY (3 HEADED ROUTE PANEL)	EAST-WEST-SOUTH	72X57	28.50	---	---	1	1	---	---	---	
							60 60 61	---	---	---	---	---	---	---	---	---	
							[LEFT TURN ARROW][AHEAD ARROW][AHEAD ARROW]	---	---	---	---	---	---	---	---	---	
							SUBTOTALS		205.23	13.00	10	11	2	19	24	0	

PERMANENT SIGNING SUMMARY CONTINUED (4 OF 7)

CATEGORY	POST NUMBER	APPROX. STATION	LOCATION	POSITION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIGN SIZE IN X IN	SIGNS TYPE II REFLECTIVE H 637.2210 SF	SIGNS TYPE II REFLECTIVE F 637.2230 SF	POSTS WOOD 4X6-INCH 14-FT 634.0614 EACH	POSTS WOOD 4X6-INCH 16-FT 634.0616 EACH	POSTS WOOD 4X6-INCH 18-FT 634.0618 EACH	REMOVING SIGNS TYPE II 638.2602 EACH	REMOVING SMALL SIGN SUPPORTS 638.3000 EACH	MOVING SMALL SIGN SUPPORTS 638.4000 EACH	SIGN MOUNTED ON SAME POST AS
0010	3-44	75+00	USH 61	LEFT	J1-1	JUNCTION ASSEMBLY	JCT	24X39	6.50	---	---	1	---	---	---	---	
							60	---	---	---	---	---	---	---	---	---	
	3-45R	75+25	USH 61	LEFT	J3-3	DIRECTIONAL ASSEMBLY (3 HEADED ROUTE PANEL)	EAST-WEST-SOUTH	72X57	---	---	---	---	---	1	2	---	
							60 60 61	---	---	---	---	---	---	---	---	---	
							[LEFT TURN ARROW][AHEAD ARROW][AHEAD ARROW]	---	---	---	---	---	---	---	---	---	
	3-46R	78+25	USH 61	RIGHT	W14-3	NO PASSING ZONE		48X36	---	---	---	---	---	1	1	---	
	3-47	78+25	USH 61	RIGHT	W14-3	NO PASSING ZONE		48X36	---	6.00	---	1	---	---	---	---	
	3-48R	78+80	USH 61	RIGHT	W5-52R	CLEARANCE STRIPER DOWN LEFT		12X36	---	---	---	---	---	1	1	---	
	3-49	78+80	USH 61	RIGHT	W5-52R	CLEARANCE STRIPER DOWN LEFT		12X36	---	3.00	1	---	---	---	---	---	
	3-50R	78+80	USH 61	LEFT	W5-52L	CLEARANCE STRIPER DOWN RIGHT		12x36	---	---	---	---	---	1	1	---	
	3-51	78+80	USH 61	LEFT	W5-52L	CLEARANCE STRIPER DOWN RIGHT		12x36	---	3.00	1	---	---	---	---	---	
	3-52R	80+30	USH 61	RIGHT	W5-52L	CLEARANCE STRIPER DOWN RIGHT		12x36	---	---	---	---	---	1	1	---	
	3-53	80+30	USH 61	RIGHT	W5-52L	CLEARANCE STRIPER DOWN RIGHT		12x36	---	3.00	1	---	---	---	---	---	
	3-54R	80+30	USH 61	LEFT	W5-52R	CLEARANCE STRIPER DOWN LEFT		12x36	---	---	---	---	---	1	1	---	
	3-55	80+30	USH 61	LEFT	W5-52R	CLEARANCE STRIPER DOWN LEFT		12x36	---	3.00	1	---	---	---	---	---	
	3-56R	80+45	USH 61	LEFT	J1-1	JUNCTION ASSEMBLY	JCT	24x39	---	---	---	---	---	1	1	---	
							60	---	---	---	---	---	---	---	---	---	
	4-01R	85+40	USH 61	RIGHT	W8-8	ROUGH ROAD		36X36	---	---	---	---	---	1	1	---	
					W57-51	NEXT _ MILES	17	36X18	---	---	---	---	---	---	---	---	
	4-02R	92+00	USH 61	LEFT	W14-3	NO PASSING ZONE		48X36	---	---	---	---	---	1	1	---	
	4-03	92+00	USH 61	LEFT	W14-3	NO PASSING ZONE		48X36	---	6.00	1	---	---	---	---	---	
	5-01R	114+80	USH 61	RIGHT	W14-3	NO PASSING ZONE		48X36	---	---	---	---	---	1	1	---	
	5-02	114+80	USH 61	RIGHT	W14-3	NO PASSING ZONE		48X36	---	6.00	1	---	---	---	---	---	
	7-01R	169+40	USH 61	RIGHT	M1-94	CROSSROAD NAME	NORTH IRISH RIDGE RD	102X15	---	---	---	---	---	1	2	---	
	7-02	170+00	USH 61	RIGHT	D1-1	ONE DESTINATION (ARROW)	NORTH IRISH RIDGE RD [RIGHT ARROW]	126X15	13.13	---	2	---	---	---	---	---	
	7-03	176+50'NR'	N IRISH RIDGE RD	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	7-04R	176+50'NR'	N IRISH RIDGE RD	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	7-05R	181+35	USH 61	LEFT	W14-3	NO PASSING ZONE		48X36	---	---	---	---	---	1	1	---	
	7-06	181+35	USH 61	LEFT	W14-3	NO PASSING ZONE		48X36	---	6.00	1		---	---	---	---	
	7-07R	183+45	USH 61	LEFT	M1-94	CROSSROAD NAME	NORTH IRISH RIDGE RD	102X15	---	---	---	---	---	1	2	---	
	7-08	183+45	USH 61	LEFT	D1-1	ONE DESTINATION (ARROW)	[LEFT ARROW] NORTH IRISH RIDGE RD	126X15	13.13	---	2	---	---	---	---	---	
	7-09R	186+25	USH 61	RIGHT	M1-94	CROSSROAD NAME	MARIETTA VALLEY RD	102X15	---	---	---	---	---	1	2	---	
	7-10	186+65	USH 61	RIGHT	D1-1	ONE DESTINATION (ARROW)	[LEFT ARROW] MARIETTA VALLEY RD	114X15	11.88	---	2	---	---	---	---	---	
	7-11R	194+35'MVN'	MARIETTA VALLEY RD	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	7-12	194+35'MVN'	MARIETTA VALLEY RD	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	8-01	199+55	USH 61	LEFT	D1-1	ONE DESTINATION (ARROW)	MARIETTA VALLEY RD [RIGHT ARROW]	114X15	11.88	---	2	---	---	---	---	---	
	8-02R	200+00	USH 61	LEFT	M1-94	CROSSROAD NAME	MARIETTA VALLEY RD	102X15	---	---	---	---	---	1	2	---	
	9-01R	236+70	USH 61	RIGHT	W14-3	NO PASSING ZONE		48X36	---	---	---	---	---	1	1	---	
	9-02	236+70	USH 61	RIGHT	W14-3	NO PASSING ZONE		48X36	---	6.00	1	---	---	---	---	---	
	9-03R	251+70	USH 61	RIGHT	M1-94	CROSSROAD NAME	SPENCER HILL RD	90X15	---	---	---	---	---	1	2	---	
	9-04	251+70	USH 61	RIGHT	D1-1	ONE DESTINATION (ARROW)	[LEFT ARROW] SPENCER HILL RD	102X15	10.63	---	2	---	---	---	---	---	
	9-05R	254+45	USH 61	LEFT	J4-1	REASSURANCE ASSEMBLY (1 HEADED ROUTE PANEL)	SOUTH	24X36	---	---	---	---	---	1	1	---	
							61	---	---	---	---	---	---	---	---	---	
	9-06R	254+45	USH 61	RIGHT	J4-1	REASSURANCE ASSEMBLY (1 HEADED ROUTE PANEL)	NORTH	24X36	---	---	---	---	---	1	1	---	
							61	---	---	---	---	---	---	---	---	---	
	10-01R	258+25'SP'	SPENCER HILL RD	RIGHT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	10-02	258+25'SP'	SPENCER HILL RD	RIGHT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	10-03	259+25'DV'	DEVLIN DR	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	10-04R	259+25'DV'	DEVLIN DR	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	10-05R	263+60	USH 61	LEFT	M1-94	CROSSROAD NAME	SPENCER HILL RD	90X15	---	---	---	---	---	1	2	---	
	10-06	263+60	USH 61	LEFT	D1-1	ONE DESTINATION (ARROW)	SPENCER HILL RD [RIGHT ARROW]	102X15	10.63	---	2	---	---	---	---	---	
	10-07R	265+45'PR'	PRICE DR	RIGHT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	10-08	265+45'PR'	PRICE DR	RIGHT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	10-09	267+00	USH 61	LEFT	W14-3	NO PASSING ZONE		48X36	---	6.00	---	1	---	---	---	---	
	10-10R	267+00	USH 61	LEFT	W14-3	NO PASSING ZONE		48X36	---	---	---	---	---	1	1	---	
	10-11	274+00	USH 61	LEFT	J4-1	REASSURANCE ASSEMBLY (1 HEADED ROUTE PANEL)	SOUTH	24X36	6.00	---	---	1	---	---	---	---	
							61	---	---	---	---	---	---	---	---	---	
	10-12	274+00	USH 61	RIGHT	J4-1	REASSURANCE ASSEMBLY (1 HEADED ROUTE PANEL)	NORTH	24X36	6.00	---	---	1	---	---	---	---	
							61	---	---	---	---	---	---	---	---	---	
	10-13R	277+00	USH 61	RIGHT	M1-94	CROSSROAD NAME	GRAHAM HOLLOW RD	102X15	---	---	---	---	---	1	2	---	
	10-14	277+00	USH 61	RIGHT	D1-1	ONE DESTINATION (ARROW)	GRAHAM HOLLOW RD [RIGHT ARROW]	114X15	11.88	---	2	---	---	---	---	---	
	10-15	284+50'GH'	GRAHAM HOLLOW RD	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	10-16R	284+50'GH'	GRAHAM HOLLOW RD	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	11-01R	289+50	USH 61	RIGHT	W1-2-R	RIGHT CURVE		30X30	---	---	---	---	---	1	1	---	
	11-02R	291+00	USH 61	LEFT	M1-94	CROSSROAD NAME	GRAHAM HOLLOW RD	102X15	---	---	---	---	---	1	2	---	
	11-03	291+00	USH 61	LEFT	D1-1	ONE DESTINATION (ARROW)	[LEFT ARROW] GRAHAM HOLLOW RD	114X15	11.88	---	2	---	---	---	---	---	
	11-04	294+25'BR'	BEAR CAVE LN	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
							SUBTOTALS		149.80	48.00	31	5	0	30	39	0	

PERMANENT SIGNING SUMMARY CONTINUED (5 OF 7)

CATEGORY	POST NUMBER	APPROX. STATION	LOCATION	POSITION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIGN SIZE IN X IN	SIGNS TYPE II REFLECTIVE H 637.2210 SF	SIGNS TYPE II REFLECTIVE F 637.2230 SF	POSTS WOOD 4X6-INCH 14-FT 634.0614 EACH	POSTS WOOD 4X6-INCH 16-FT 634.0616 EACH	POSTS WOOD 4X6-INCH 18-FT 634.0618 EACH	REMOVING SIGNS TYPE II 638.2602 EACH	REMOVING SMALL SIGN SUPPORTS 638.3000 EACH	MOVING SMALL SIGN SUPPORTS 638.4000 EACH	SIGN MOUNTED ON SAME POST AS
0010	11-05R	294+25'BR'	BEAR CAVE LN	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	11-06R	295+25	USH 61	LEFT	W1-2-R	RIGHT CURVE		36X36	---	---	---	---	---	1	1	---	
	11-07R	310+65	USH 61	RIGHT	M1-94	CROSSROAD NAME	CHILDS HOLLOW RD	96X24	---	---	---	---	---	1	2	---	
							BYERS RD	---	---	---	---	---	---	---	---	---	
	11-08	310+65	USH 61	RIGHT	D1-1	ONE DESTINATION (ARROW)	[LEFT ARROW] CHILDS HOLLOW RD	108X24	18.00	---	2	---	---	---	---	---	
							[LEFT ARROW] BYERS RD	---	---	---	---	---	---	---	---	---	
	12-01	318+10'CH'	CHILDS HOLLOW RD	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	12-02R	318+10'CH'	CHILDS HOLLOW RD	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	12-03R	324+60	USH 61	LEFT	M1-94	CROSSROAD NAME	BYERS RD	96X24	---	---	---	---	---	1	2	---	
							CHILDS HOLLOW RD	---	---	---	---	---	---	---	---	---	
	12-04	324+60	USH 61	LEFT	D1-1	ONE DESTINATION (ARROW)	BYERS RD [RIGHT ARROW]	108X24	18.00	---	1	1	---	---	---	---	
							CHILDS HOLLOW RD [RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	12-05R	329+45	USH 61	LEFT	W1-2-L	LEFT CURVE		30X30	---	---	---	---	---	1	1	---	
	12-06	330+00	USH 61	RIGHT	R4-51	PASSING LANE AHEAD _ MILE	1	36X48	12.00	---	---	1	---	---	---	---	
	12-07R	332+50	USH 61	RIGHT	W14-3	NO PASSING ZONE		48X36	---	---	---	---	---	1	1	---	
	12-08	332+50	USH 61	RIGHT	W14-3	NO PASSING ZONE		48X36	---	6.00	---	1	---	---	---	---	
	12-09	333+30'OS'	OSTRANDER DR	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	12-10R	330+30'OS'	OSTRANDER DR	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	12-11R	340+25	USH 61	LEFT	W14-3	NO PASSING ZONE		48X36	---	---	---	---	---	1	1	---	
	12-12	340+25	USH 61	LEFT	W14-3	NO PASSING ZONE		48X36	---	6.00	---	1	---	---	---	---	
	13-01	355+00	USH 61	RIGHT	R4-51	PASSING LANE AHEAD _ MILE	1/2	36X48	12.00	---	---	1	---	---	---	---	
	13-02	357+35'LN'	LONG AGO LN	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	13-03R	357+35'LN'	LONG AGO LN	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	13-04	360+85	USH 61	RIGHT	D1-1	ONE DESTINATION (ARROW)	GRAY RD [RIGHT ARROW]	66X15	6.88	---	2	---	---	---	---	---	
	13-05R	360+85	USH 61	RIGHT	M1-94	CROSSROAD NAME	GRAY RD	54X15	---	---	---	---	---	1	2	---	
	13-06R	365+50	USH 61	LEFT	W8-8	ROUGH ROAD		36X36	---	---	---	---	---	1	1	---	
					W57-51	NEXT XX MILES	5	36X18	---	---	---	---	---	---	---	---	
	13-07R	365+50	USH 61	RIGHT	W8-8	ROUGH ROAD		36X36	---	---	---	---	---	1	1	---	
					W57-51	NEXT XX MILES	12	36X18	---	---	---	---	---	---	---	---	
	13-08	368+35'GR'	GRAY RD	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	13-09R	368+35'GR'	GRAY RD	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	13-10R	373+90	USH 61	LEFT	M1-94	CROSSROAD NAME	GRAY RD	54X15	---	---	---	---	---	1	2	---	
	13-11	373+90	USH 61	LEFT	D1-1	ONE DESTINATION (ARROW)	[LEFT ARROW] GRAY RD	66X15	6.88	---	2	---	---	---	---	---	
	14-01R	377+55	USH 61	RIGHT	R4-3	SLOWER TRAFFIC KEEP RIGHT		24X30	---	---	---	---	---	1	1	---	
	14-02	380+30	USH 61	RIGHT	R4-3	SLOWER TRAFFIC KEEP RIGHT		24X30	5.00	---	1	---	---	---	---	---	
	14-03R	383+35	USH 61	RIGHT	R4-3	SLOWER TRAFFIC KEEP RIGHT		24X30	---	---	---	---	---	1	1	---	
	15-01R	405+80'FR'	FRY LN	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	15-02	405+80'FR'	FRY LN	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	15-03	420+60	USH 61	RIGHT	D1-2	TWO DESTINATIONS (ARROWS)	[LEFT ARROW] MOUNT ZION RD	96X30	20.00	---	1	1	---	---	---	---	
							COALBURN RD [RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	15-04R	420+60	USH 61	RIGHT	M1-94	CROSSROAD NAME	COALBURN RD	66X24	---	---	---	---	---	1	2	---	
							MT ZION RD	---	---	---	---	---	---	---	---	---	
	15-05	423+00	USH 61	LEFT	R3-72	ONCOMING TRAFFIC USES CENTER LANE		30X36	7.50	---	1	---	---	---	---	---	
	15-06T	423+30	USH 61	RIGHT	---	WHITE ARROW DIRECTIONAL SIGN	[LEFT ARROW] MT ZION UNITED METHODIST CHURCH	48X9	---	---	---	---	---	---	---	1	TO BE MOVED IF NECESSARY
	15-07R	247+40'MZ'	MT. ZION RD	RIGHT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	15-08	247+40'MZ'	MT. ZION RD	RIGHT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	15-09	428+50'CL'	COALBURN RD	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	15-10R	428+50'CL'	COALBURN RD	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	15-11T	431+80	USH 61	LEFT	---	WHITE ARROW DIRECTIONAL SIGN	MT ZION UNITED METHODIST CHURCH [RIGHT ARROW]	48X9	---	---	---	---	---	---	---	1	TO BE MOVED IF NECESSARY
	15-12R	434+25	USH 61	LEFT	M1-94	CROSSROAD NAME	MT ZION RD	66X24	---	---	---	---	---	1	2	---	
							COALBURN RD	---	---	---	---	---	---	---	---	---	
	15-13	434+25	USH 61	LEFT	D1-2	TWO DESTINATIONS (ARROWS)	[LEFT ARROW] COALBURN RD	96X30	20.00	---	1	1	---	---	---	---	
							MOUNT ZION RD [RIGHT ARROW]	---	---	---	---	---	---	---	---	---	
	16-01	447+00	USH 61	RIGHT	J1-1	JUNCTION ASSEMBLY	JCT	24X39	6.50	---	---	1	---	---	---	---	
							COUNTY W	---	---	---	---	---	---	---	---	---	
	16-02R	447+50	USH 61	RIGHT	I2-3-U	COMMUNITY POPULATION NAME SIGN (UNINCORPORATED)	MT ZION	54X24	---	---	---	---	---	1	1	---	
	16-03R	449+60	USH 61	RIGHT	J1-1	JUNCTION ASSEMBLY	JCT	24X39	---	---	---	---	---	1	1	---	
							COUNTY W	---	---	---	---	---	---	---	---	---	
	16-04	450+00	USH 61	RIGHT	I2-3-U	COMMUNITY POPULATION NAME SIGN (UNINCORPORATED)	MT ZION	54X24	9.00	---	2	---	---	---	---	---	
	16-05	452+75	USH 61	RIGHT	I55-56	ADOPT-A-HIGHWAY [SPONSOR]	LULU'S	30X36	7.50	---	1	---	---	---	---	---	
							ART-O-RAMA	---	---	---	---	---	---	---	---	---	
	16-06R	452+75	USH 61	RIGHT	I55-56	ADOPT-A-HIGHWAY [SPONSOR]	LULU'S	30X36	---	---	---	---	---	1	1	---	
							ART-O-RAMA	---	---	---	---	---	---	---	---	---	
	16-07	456+00	USH 61	LEFT	J4-1	REASSURANCE ASSEMBLY (1 HEADED ROUTE PANEL)	SOUTH	24X36	6.00	---	1	---	---	---	---	---	
							61	---	---	---	---	---	---	---	---	---	
	16-08R	456+75	USH 61	RIGHT	J12-1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)	COUNTY W	24X45	---	---	---	---	---	1	1	---	
							[DOUBLE ARROW]	---	---	---	---	---	---	---	---	---	
							SUBTOTALS		191.52	12.00	22	8	0	26	32	2	

PERMANENT SIGNING SUMMARY CONTINUED (6 OF 7)

CATEGORY	POST NUMBER	APPROX. STATION	LOCATION	POSITION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIGN SIZE IN X IN	SIGNS TYPE II REFLECTIVE H 637.2210 SF	SIGNS TYPE II REFLECTIVE F 637.2230 SF	POSTS WOOD 4X6-INCH 14-FT 634.0614 EACH	POSTS WOOD 4X6-INCH 16-FT 634.0616 EACH	POSTS WOOD 4X6-INCH 18-FT 634.0618 EACH	REMOVING SIGNS TYPE II 638.2602 EACH	REMOVING SMALL SIGN SUPPORTS 638.3000 EACH	MOVING SMALL SIGN SUPPORTS 638.4000 EACH	SIGN MOUNTED ON SAME POST AS
0010	16-09	456+75	USH 61	RIGHT	J12-1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)	COUNTY W	24X45	7.50	---	---	1	---	---	---	---	
							[DOUBLE ARROW]	---	---	---	---	---	---	---	---	---	
	16-10R	456+95'CW'	CTH W	RIGHT	J12-1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)	61	24X45	---	---	---	---	---	1	1	---	
							[DOUBLE ARROW]	---	---	---	---	---	---	---	---	---	
	16-11	456+95'CW'	CTH W	RIGHT	J12-1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)	61	24X45	7.50	---	---	1	---	---	---	---	
							[DOUBLE ARROW]	---	---	---	---	---	---	---	---	---	
	16-12R	456+95'CW'	CTH W	RIGHT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	16-13	456+95'CW'	CTH W	RIGHT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	16-14	457+90'CW'	CTH W	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	16-15R	457+90'CW'	CTH W	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	16-16	457+90'CW'	CTH W	RIGHT	J12-1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)	61	24X45	7.50	---	---	1	---	---	---	---	
							[DOUBLE ARROW]	---	---	---	---	---	---	---	---	---	
	16-17R	457+90'CW'	CTH W	RIGHT	J12-1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)	61	24X45	---	---	---	---	---	1	1	---	
							[DOUBLE ARROW]	---	---	---	---	---	---	---	---	---	
	16-18	458+05	USH 61	LEFT	J12-1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)	COUNTY W	24X45	7.50	---	---	1	---	---	---	---	
							[DOUBLE ARROW]	---	---	---	---	---	---	---	---	---	
	16-19R	458+05	USH 61	LEFT	J12-1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)	COUNTY W	24X45	---	---	---	---	---	1	1	---	
							[DOUBLE ARROW]	---	---	---	---	---	---	---	---	---	
	16-20R	458+60	USH 61	RIGHT	W9-1R	RIGHT LANE ENDS		36X36	---	---	---	---	---	1	1	---	
	16-21	459+00	USH 61	RIGHT	W9-1R	RIGHT LANE ENDS		36X36	---	9.00	1	---	---	---	---	---	
	16-22	461+00	USH 61	RIGHT	J4-1	REASSURANCE ASSEMBLY (1 HEADED ROUTE PANEL)	NORTH	24X36	6.00	---	---	1	---	---	---	---	
							61	---	---	---	---	---	---	---	---	---	
	16-23R	463+25	USH 61	RIGHT	W4-2R	RIGHT LANE ENDS SYMBOL		36X36	---	---	---	---	---	1	1	---	
	16-24R	463+25	USH 61	LEFT	W4-2R	RIGHT LANE ENDS SYMBOL		36X36	---	---	---	---	---	1	1	---	
	16-25	463+95	USH 61	RIGHT	W4-2R	RIGHT LANE ENDS SYMBOL		36X36	---	9.00	---	1	---	---	---	---	
	16-26	463+95	USH 61	LEFT	W4-2R	RIGHT LANE ENDS SYMBOL		36X36	---	9.00	---	1	---	---	---	---	
	17-01R	465+25	USH 61	LEFT	I2-3-U	COMMUNITY POPULATION NAME SIGN (UNINCORPORATED)	MT. ZION	54X24	---	---	---	---	---	1	2	---	
	17-02	465+25	USH 61	LEFT	I2-3-U	COMMUNITY POPULATION NAME SIGN (UNINCORPORATED)	MT. ZION	54X24	9.00	---	2	---	---	---	---	---	
	17-03R	467+75	USH 61	LEFT	J1-1	JUNCTION ASSEMBLY	JCT	24X39	---	---	---	---	---	1	1	---	
							COUNTY W	---	---	---	---	---	---	---	---	---	
	17-04	467+75	USH 61	LEFT	J1-1	JUNCTION ASSEMBLY	JCT	24X39	6.50	---	---	1	---	---	---	---	
							COUNTY W	---	---	---	---	---	---	---	---	---	
	17-05	469+40	USH 61	LEFT	R4-1	DO NOT PASS		24X30	5.00	---	1	---	---	---	---	---	
	17-06R	469+50	USH 61	RIGHT	J1-1	JUNCTION ASSEMBLY	JCT	24X39	---	---	---	---	---	1	1	---	17-09R
							COUNTY S	---	---	---	---	---	---	---	---	---	
	17-07	469+50	USH 61	RIGHT	J1-1	JUNCTION ASSEMBLY	JCT	24X39	6.50	---	---	1	---	---	---	---	NEW SIGNS ON SEPARATE POSTS
							COUNTY S	---	---	---	---	---	---	---	---	---	
	17-08	469+50	USH 61	RIGHT	W14-3	NO PASSING ZONE		48X36	---	6.00	---	1	---	---	---	---	NEW SIGNS ON SEPARATE POSTS
	17-09R	469+50	USH 61	RIGHT	W14-3	NO PASSING ZONE		48X36	---	---	---	---	---	1	---	---	17-06R
	17-10R	474+50	USH 61	RIGHT	D1-1	ONE DESTINATION (ARROW)	EXCELSIOR [RIGHT ARROW]	72X15	---	---	---	---	---	1	1	---	
	17-11	474+50	USH 61	RIGHT	D1-1	ONE DESTINATION (ARROW)	EXCELSIOR [RIGHT ARROW]	72X15	7.50	---	2	---	---	---	---	---	
	17-12	474+50	USH 61	LEFT	R3-72	ONCOMING TRAFFIC USES CENTER LANE		30X36	7.50	---	---	1	---	---	---	---	
	17-13R	474+50	USH 61	LEFT	R3-72	ONCOMING TRAFFIC USES CENTER LANE		30X36	---	---	---	---	---	1	1	---	
	17-14	478+00	USH 61	LEFT	J4-1	REASSURANCE ASSEMBLY (1 HEADED ROUTE PANEL)	SOUTH	24X36	6.00	---	1	---	---	---	---	---	
							61	---	---	---	---	---	---	---	---	---	
	17-15	479+10	USH 61	RIGHT	J12-1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)	COUNTY S	24X45	7.50	---	---	1	---	---	---	---	
							[DOUBLE ARROW]	---	---	---	---	---	---	---	---	---	
	17-16R	479+10	USH 61	RIGHT	J12-1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)	COUNTY S	24X45	7.50	---	---	---	---	1	1	---	
							[DOUBLE ARROW]	---	---	---	---	---	---	---	---	---	
	17-17R	479+30'CS'	CTH S	RIGHT	J12-1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)	61	24X45	7.50	---	---	---	---	1	1	---	
							[DOUBLE ARROW]	---	---	---	---	---	---	---	---	---	
	17-18	479+30'CS'	CTH S	RIGHT	J12-1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)	61	24X45	7.50	---	---	1	---	---	---	---	
							[DOUBLE ARROW]	---	---	---	---	---	---	---	---	---	
	17-19R	479+30'CS'	CTH S	RIGHT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	17-20	479+30'CS'	CTH S	RIGHT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	17-21	480+35'CS'	CTH S	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	17-22R	480+35'CS'	CTH S	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	17-23	480+35'CS'	CTH S	LEFT	J12-1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)	61	24X45	7.50	---	---	1	---	---	---	---	
							[DOUBLE ARROW]	---	---	---	---	---	---	---	---	---	
	17-24R	480+35'CS'	CTH S	LEFT	J12-1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)	61	24X45	---	---	---	---	---	1	1	---	
							[DOUBLE ARROW]	---	---	---	---	---	---	---	---	---	
	17-25	480+50	USH 61	LEFT	W14-3	NO PASSING ZONE		48X36	---	6.00	---	1	---	---	---	---	NEW SIGNS ON SEPARATE POSTS
	17-26R	480+55	USH 61	LEFT	W14-3	NO PASSING ZONE		48X36	---	---	---	---	---	1	---	---	17-27R
	17-27R	480+55	USH 61	LEFT	J12-1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)	COUNTY S	24X45	---	---	---	---	---	1	1	---	17-26R
							[DOUBLE ARROW]	---	---	---	---	---	---	---	---	---	
	17-28	480+70	USH 61	LEFT	J12-1	ROUTE TURN WITHOUT CARDINAL (1 HEADED ROUTE PANEL)	COUNTY S	24X45	7.50	---	---	1	---	---	---	---	NEW SIGNS ON SEPARATE POSTS
							[DOUBLE ARROW]	---	---	---	---	---	---	---	---	---	
							SUBTOTALS		149.72	39.00	11	16	0	21	20	0	

PERMANENT SIGNING SUMMARY CONTINUED (7 OF 7)

CATEGORY	POST NUMBER	APPROX. STATION	LOCATION	POSITION	SIGN CODE	SIGN DESCRIPTION	ORDER LINES	SIGN SIZE IN X IN	SIGNS TYPE II REFLECTIVE H 637.2210 SF	SIGNS TYPE II REFLECTIVE F 637.2230 SF	POSTS WOOD 4X6-INCH 14-FT 634.0614 EACH	POSTS WOOD 4X6-INCH 16-FT 634.0616 EACH	POSTS WOOD 4X6-INCH 18-FT 634.0618 EACH	REMOVING SIGNS TYPE II 638.2602 EACH	REMOVING SMALL SIGN SUPPORTS 638.3000 EACH	MOVING SMALL SIGN SUPPORTS 638.4000 EACH	SIGN MOUNTED ON SAME POST AS
0010	17-29	481+50	USH 61	RIGHT	J4-1	REASSURANCE ASSEMBLY (1 HEADED ROUTE PANEL)	NORTH	24X36	6.00	---	1	---	---	---	---	---	
							61	---	---	---	---	---	---	---	---	---	
	17-30R	485+00	USH 61	LEFT	D1-1	ONE DESTINATION (ARROW)	EXCELSIOR [LEFT ARROW]	72X15	---	---	---	---	---	1	2	---	
	17-31	485+00	USH 61	LEFT	D1-1	ONE DESTINATION (ARROW)	EXCELSIOR [LEFT ARROW]	72X15	7.50	---	2	---	---	---	---	---	
	17-32	489+75	USH 61	LEFT	J1-1	JUNCTION ASSEMBLY	JCT	24X39	6.50	---	---	1	---	---	---	---	
							COUNTY S	---	---	---	---	---	---	---	---	---	
	17-33R	489+75	USH 61	LEFT	J1-1	JUNCTION ASSEMBLY	JCT	24X39	---	---	---	---	---	1	1	---	
							COUNTY S	---	---	---	---	---	---	---	---	---	
	18-01	499+30	USH 61	RIGHT	D1-1	ONE DESTINATION (ARROW)	[LEFT ARROW] WHEATVILLE RD	90X15	9.38	---	2	---	---	---	---	---	
	18-02R	499+30	USH 61	RIGHT	M1-94	CROSSROAD NAME	WHEATVILLE RD	78X15	---	---	---	---	---	1	2	---	
	18-03R	502+45	USH 61	LEFT	M1-6	STATE ROUTE MARKER	61	24X24	---	---	---	---	---	1	1	---	
	18-04R	502+45	USH 61	RIGHT	M1-6	STATE ROUTE MARKER	61	24X24	---	---	---	---	---	1	1	---	
	18-05R	508+25'WH'	WHEATVILLE RD	RIGHT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	18-06	508+25'WH'	WHEATVILLE RD	RIGHT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	18-07	506+35'RT'	ROTH LN	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	18-08R	506+35'RT'	ROTH LN	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	18-09	513+50	USH 61	LEFT	D1-1	ONE DESTINATION (ARROW)	WHEATVILLE RD [RIGHT ARROW]	90X15	9.38	---	2	---	---	---	---	---	
	18-10R	513+50	USH 61	LEFT	M1-94	CROSSROAD NAME	WHEATVILLE RD	78X15	---	---	---	---	---	1	2	---	
	18-11R	521+35	USH 61	RIGHT	W14-3	NO PASSING ZONE		48X36	---	---	---	---	---	1	1	---	
	18-12	521+35	USH 61	RIGHT	W14-3	NO PASSING ZONE		48X36	---	6.00	1	---	---	---	---	---	
	18-13	522+30'YG'	YOUNG LN	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	18-14R	522+30'YG'	YOUNG LN	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	19-01	546+25'HP'	HAPPY PLACE LN	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	19-02R	546+25'HP'	HAPPY PLACE LN	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	20-01	553+75	USH 61	LEFT	W14-3	NO PASSING ZONE		48X36	---	6.00	1	---	---	---	---	---	
	20-02R	553+75	USH 61	LEFT	W14-3	NO PASSING ZONE		48X36	---	---	---	---	---	1	1	---	
	20-03R	566+20'HL'	HOPE LN	RIGHT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	20-04	566+20'HL'	HOPE LN	RIGHT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	20-05R	566+50	USH 61	RIGHT	M1-94	CROSSROAD NAME	S SLEEPY HOLLOW RD	108X15	---	---	---	---	---	1	2	---	
	20-06	566+50	USH 61	RIGHT	D1-1	ONE DESTINATION (ARROW)	S SLEEPY HOLLOW RD [RIGHT ARROW]	120X15	12.50	---	2	---	---	---	---	---	
	20-07R	573+75'BL'	BELGIAN LN	RIGHT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	20-08	573+75'BL'	BELGIAN LN	RIGHT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	20-09	572+35'SL'	S. SLEEPY HOLLOW RD	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	20-10R	572+35'SL'	S. SLEEPY HOLLOW RD	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	20-11	575+45	USH 61	LET	I55-56	ADOPT-A-HIGHWAY [SPONSOR]	LULU'S	30X36	7.50	---	---	1	---	---	---	---	
							ART-O-RAMA	---	---	---	---	---	---	---	---	---	
	20-12R	575+45	USH 61	LEFT	I55-56	ADOPT-A-HIGHWAY [SPONSOR]	LULU'S	30X36	7.50	---	---	---	---	1	1	---	
							ART-O-RAMA	---	---	---	---	---	---	---	---	---	
	20-13R	579+15	USH 61	LEFT	M1-94	CROSSROAD NAME	S SLEEPY HOLLOW RD	108X15	---	---	---	---	---	1	2	---	
	20-14	579+15	USH 61	LEFT	D1-1	ONE DESTINATION (ARROW)	[LEFT ARROW] S SLEEPY HOLLOW RD	120X15	12.50	---	2	---	---	---	---	---	
	21-01R	583+90	USH 61	RIGHT	W14-3	NO PASSING ZONE		48X36	---	---	---	---	---	1	1	---	
	21-02	583+90	USH 61	RIGHT	W14-3	NO PASSING ZONE		48X36	---	6.00	---	1	---	---	---	---	
	21-03R	602+70	USH 61	RIGHT	M1-94	CROSSROAD NAME	BELL CENTER RD	84X15	---	---	---	---	---	1	2	---	
	21-04	602+70	USH 61	RIGHT	D1-1	ONE DESTINATION (ARROW)	[LEFT ARROW] BELL CENTER RD	96X15	10.00	---	2	---	---	---	---	---	
	21-05R	1+35'BC'	BELL CENTER RD	RIGHT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
	21-06	1+35'BC'	BELL CENTER RD	RIGHT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	21-07	610+30'JM'	JIMS DR	LEFT	R1-1	STOP		30X30	5.18	---	1	---	---	---	---	---	
	21-08R	610+30'JM'	JIMS DR	LEFT	R1-1	STOP		30X30	---	---	---	---	---	1	1	---	
							SUBTOTALS		135.38	18.00	24	3	0	22	28	0	
							PROJECT TOTALS		1198.92	220.00	116	64	8	160	185	4	

PAVEMENT MARKING SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	EPOXY 4-INCH 646.0106 LF	EPOXY 8-INCH 646.0126 LF	SAME DAY EPOXY 4-INCH 646.0406 LF	LATE SEASON 4-INCH 646.0900.S LF	ARROWS EPOXY TYPE 2 647.0166 EACH	WORDS EPOXY (ONLY) 647.0356 EACH	CURB EPOXY 647.0456 LF	STOP LINE EPOXY 18-INCH 647.0566 LF	ISLAND NOSE EPOXY 647.0606 EACH	CONCRETE COURRGATED MEDIAN EPOXY 647.0856 SF	TEMPORARY PAVEMENT MARKING PAINT 4-INCH 649.0402 LF	REMARKS
0010	14+30'STH60'	-	19+65'STH60'	STH 60, MAINLINE	---	---	---	---	---	---	---	---	---	---	407	TEMPORARY CENTERLINE ON LOWER LIFT
	14+30'STH60'	-	19+65'STH60'	STH 60, MAINLINE	---	---	1353	---	---	---	65	---	2	---	---	YELLOW CENTERLINE/EDGELINE/CURB TO INTERSECTION
	14+30'STH60'	-	19+75'STH60'	STH 60, RT	625	---	---	---	---	---	---	---	---	---	---	WHITE EDGELINE - UP TO WIS BRIDGE
	14+30'STH60'	-	64+20	STH 60/USH 61, LT	6968	---	---	---	---	---	---	---	---	---	---	WHITE EDGELINE - TO MARIETTA VALLEY RD
	15+99'STH60'	-	19+31'STH60'	STH 60, RT	---	335	---	---	---	---	---	---	---	---	---	RIGHT TURN LANE LINE
	16+20'STH60'			STH 60, RT	---	---	---	---	1	---	---	---	---	---	---	RIGHT TURN ARROW
	16+88'STH60'			STH 60, RT	---	---	---	---	---	1	---	---	---	---	---	ONLY
	17+56'STH60'			STH 60, RT	---	---	---	---	1	---	---	---	---	---	---	RIGHT TURN ARROW
	18+24'STH60'			STH 60, RT	---	---	---	---	---	1	---	---	---	---	---	ONLY
	18+92'STH60'			STH 60, RT	---	---	---	---	1	---	---	---	---	---	---	RIGHT TURN ARROW
	0+28'61SB'			USH 61, LT	---	---	---	---	---	---	---	36	---	---	---	STOP BARS - ISLAND
	0+32'61SB'	-	0+87'61SB'	USH 61, MAINLINE	---	---	---	---	---	---	---	---	---	54	---	CONCRETE CORRUGATED MEDIAN
	0+54'61SB'	-	1+21'61SB'	USH 61, LT	---	250	---	---	---	---	---	---	---	---	---	RIGHT TURN LANE LINE
	0+88'61SB'	-	1+21'61SB'	USH 61, MAINLINE	---	---	70	---	---	---	---	---	---	---	---	YELLOW CENTERLINE
	0+60'61SB'			USH 61, LT	---	---	---	---	4	---	---	---	---	---	---	RETRACE LEFT & RIGHT TURN ARROWS IN KIND
	1+08'61SB'			USH 61, LT	---	---	---	---	---	4	---	---	---	---	---	RETRACE WORDS (ONLY) IN KIND
	0+50	-	2+00	USH 61, LT	---	150	---	---	---	---	---	---	---	---	---	LEFT TURN LANE LINE
	0+92			USH 61, LT	---	---	---	---	1	---	---	---	---	---	---	LEFT ARROW
	1+80			USH 61, LT	---	---	---	---	1	---	---	---	---	---	---	LEFT ARROW
	0+53	-	64+25	USH 61, MAINLINE	---	---	---	---	---	---	---	---	---	---	8012	TEMPORARY CENTERLINE ON LOWER LIFT
	0+53	-	64+25	USH 61, MAINLINE	---	---	9605	---	---	---	20	---	2	---	---	YELLOW EDGELINE/CENTERLINE/CURB TO STH 60 E
	0+14	-	63+82	USH 61, RT	6461	---	---	---	---	---	---	---	---	---	---	WHITE EDGELINE - WIS BRIDGE TO STH 60 E
	61+82	-	63+82	USH 61, RT	---	200	---	---	---	---	---	---	---	---	---	RIGHT TURN LANE LINE
	2+32'60E'	-	4+13'60E'	STH 60, MAINLINE	---	---	---	---	---	---	---	---	---	---	227	TEMPORARY CENTERLINE ON LOWER LIFT
	2+32'60E'	-	4+13'60E'	STH 60, MAINLINE	---	---	227	---	---	---	---	---	---	---	---	YELLOW CENTERLINE
	2+86'60E'	-	4+13'60E'	STH 60, LT/RT	245	---	---	---	---	---	---	---	---	---	---	WHITE EDGLINE
	2+50'60E'	-	2+80'60E'	STH 60, LT	---	60	---	---	---	---	---	---	---	---	---	8" CHANNELIZING LANE LINE
	2+33'60E'			STH 60, LT	---	---	---	---	---	---	---	30	---	---	---	STOP BARS - ISLAND
	65+25	-	457+43	USH 61, MAINLINE	---	---	---	---	---	---	---	---	---	---	46126	TEMPORARY CENTERLINE ON LOWER LIFT
	65+25	-	457+43	USH 61, MAINLINE	---	---	50229	12557	---	---	---	---	---	---	---	YELLOW CENTERLINE
	65+56	-	192+06	USH 61, LT	12507	---	---	3127	---	---	---	---	---	---	---	3' SKIPS (APPROX. 15) - WHITE EDGELINE
	65+67	-	175+88	USH 61, RT	10968	---	---	2742	---	---	---	---	---	---	---	WHITE EDGELINE - 3' SKIPS (APPROX. 6)
	177+18	-	285+07	USH 61, RT	10595	---	---	2649	---	---	---	---	---	---	---	WHITE EDGELINE - 3' SKIPS (APPROX. 21)
	192+06	-	258+32	USH 61, LT	6448	---	---	1612	---	---	---	---	---	---	---	3' SKIPS (APPROX. 20) - WHITE EDGELINE
	259+59	-	317+19	USH 61, LT	5725	---	---	1431	---	---	---	---	---	---	---	3' SKIPS (APPROX. 5) - WHITE EDGELINE
	285+07	-	293+61	USH 61, RT	830	---	---	208	---	---	---	---	---	---	---	WHITE EDGELINE - 3' SKIPS (APPROX. 3)
	294+10	-	356+72	USH 61, RT	6190	---	---	1548	---	---	---	---	---	---	---	WHITE EDGELINE - 3' SKIPS (APPROX. 6)
	317+19	-	405+53	USH 61, LT	8683	---	---	2170	---	---	---	---	---	---	---	3' SKIPS (APPROX. 16) - WHITE EDGELINE
	357+70	-	367+25	USH 61, RT	910	---	---	228	---	---	---	---	---	---	---	WHITE EDGELINE - 3' SKIPS (APPROX. 5)
	368+46	-	427+20	USH 61, RT	5840	---	---	1460	---	---	---	---	---	---	---	WHITE EDGELINE - 3' SKIPS (APPROX. 3)
	380+45	-	383+45	USH 61, RT	75	---	---	18	---	---	---	---	---	---	---	3' SKIPS (APPROX. 21) - HILL CLIMBING TRANSITION
	383+45	-	469+00	USH 61, RT	2053	---	---	513	---	---	---	---	---	---	---	WHITE LANE LINE - HILL CLIMBING LANE
	406+23	-	427+22	USH 61, LT	2049	---	---	512	---	---	---	---	---	---	---	3' SKIPS (APPROX. 5) - WHITE EDGELINE
	428+08	-	456+70	USH 61, RT	2821	---	---	705	---	---	---	---	---	---	---	WHITE EDGELINE - 3' SKIPS (APPROX. 5)
	428+18	-	456+65	USH 61, LT	2773	---	---	693	---	---	---	---	---	---	---	3' SKIPS (APPROX. 8) - WHITE EDGELINE
	456+20'CW'		458+74'CW'	CTH W, MAINLINE	---	---	350	---	---	---	---	---	---	---	---	YELLOW CENTERLINE
	457+43	-	612+50	USH 61, MAINLINE	---	---	---	---	---	---	---	---	---	---	13150	TEMPORARY CENTERLINE ON LOWER LIFT
	457+43	-	612+50	USH 61, MAINLINE	---	---	15463	3866	---	---	---	---	---	---	---	YELLOW CENTERLINE
	478+61'CS'		480+77'CS'	CTH S, MAINLINE	---	---	276	---	---	---	---	---	---	---	---	YELLOW CENTERLINE
	458+04	-	479+04	USH 61, RT	2026	---	---	507	---	---	---	---	---	---	---	WHITE EDGELINE - 3' SKIPS (APPROX. 8)
	458+12	-	459+72	USH 61, LT	---	160	---	---	---	---	---	---	---	---	---	RIGHT TURN LANE LINE
	458+12	-	479+24	USH 61, LT	2113	---	---	528	---	---	---	---	---	---	---	WHITE EDGELINE
	480+34	-	505+40	USH 61, RT	2472	---	---	618	---	---	---	---	---	---	---	WHITE EDGELINE - 3' SKIPS (APPROX. 4)
	480+55	-	506+05	USH 61, LT	2445	---	---	611	---	---	---	---	---	---	---	3' SKIPS (APPROX. 11) - WHITE EDGELINE
	506+57	-	521+75	USH 61, RT	1491	---	---	373	---	---	---	---	---	---	---	WHITE EDGELINE - 3' SKIPS (APPROX. 3)
	507+45	-	565+33	USH 61, LT	5743	---	---	1436	---	---	---	---	---	---	---	3' SKIPS (APPROX. 5) - WHITE EDGELINE
	522+77	-	545+92	USH 61, RT	2282	---	---	570	---	---	---	---	---	---	---	WHITE EDGELINE - 3' SKIPS (APPROX. 3)
	546+46	-	571+08	USH 61, RT	2415	---	---	604	---	---	---	---	---	---	---	WHITE EDGELINE - 3' SKIPS (APPROX. 5)
	566+14	-	571+80	USH 61, LT	540	---	---	135	---	---	---	---	---	---	---	3' SKIPS (APPROX. 3) - WHITE EDGELINE
	572+45	-	609+36	USH 61, RT	3653	---	---	913	---	---	---	---	---	---	---	WHITE EDGELINE - 3' SKIPS (APPROX. 4)
	572+82	-	609+23	USH 61, LT	3590	---	---	898	---	---	---	---	---	---	---	3' SKIPS (APPROX. 6) - WHITE EDGELINE
	609+96	-	612+50	USH 61, RT	254	---	---	64	---	---	---	---	---	---	---	WHITE EDGELINE
	610+52	-	612+50	USH 61, LT	162	---	---	40	---	---	---	---	---	---	---	3' SKIPS (APPROX. 4) - WHITE EDGELINE
				TOTAL 0010	244240	1155	77573	43336	9	6	85	66	4	54	67922	

3

TRAFFIC CONTROL

CATEGORY	LOCATION	DRUMS 643.0300 DAY	BARRICADES TYPE III 643.0420 DAY	SIGNS 643.0900 DAY	SIGNS PCMS 643.1050 DAY	REMARKS
0010	STH 60 EB	21			7	SEE TRAFFIC CONTROL - PCMS
	USH 61 NB	21			7	SEE TRAFFIC CONTROL - PCMS
	STH 60 WB	21			7	SEE TRAFFIC CONTROL - PCMS
	USH 61 SB	21			7	SEE TRAFFIC CONTROL - PCMS
	MAINLINE	8085		2280		SEE TRAFFIC CONTROL - SIGNING
	SIDEROADS			3600		SEE TRAFFIC CONTROL - SIGNING
	B-12-0019			168		SEE TRAFFIC CONTROL - BRIDGE WIDTH SIGNING
	MAINLINE	5000	450	450		HILL CLIMBING LANE
	TOTAL 0010	13169	450	6498	28	

GEOTEXTILE FABRIC TYPE HR

CATEGORY	STATION	TO	STATION	LOCATION	645.0120 SY	REMARKS
0010	367+15	-	367+75	RT	166	SE Quad of USH 61/Gray RD
				TOTAL 0010	166	

SAWING ASPHALT

CATEGORY	STATION	LOCATION	690.0150 LF	REMARKS
0010	16+00 'STH 60'	LT	16	Easter Rock LN
	56+70	RT	77	WI DNR Boat/Canoe Launch
	64+77	LT	25	Marietta Valley RD (south)
	157+62	RT	16	PE
	166+25	RT	16	PE
	176+42	RT	24	N. Irish Ridge RD
	193+19	LT	24	Marietta Valley RD (north)
	200+58	RT	16	PE
	258+86	LT	24	Spencer Hill RD
	283+96	RT	24	Graham Hollow RD
	316+57	LT	46	PE
	317+67	LT	47	Childs Hollow RD
	427+67	LT	24	Old 61 RD
	457+43	LT	31	CTH W (westbound)
	457+43	RT	35	CTH W (eastbound)
	479+79	LT	28	CTH S (westbound)
	479+79	RT	27	CTH S (eastbound)
	572+34	RT	34	S. Sleepy Hollow RD
	609+84	LT	24	Bell Ridge RD
		TOTAL 0010	558	

3

CONSTRUCTION STAKING RESURFACING REFERENCE

CATEGORY	STATION	TO	STATION	LOCATION	650.8000 LF
0010	14+25'STH60'	-	20+00'STH60'	M/L	575
	0+00	-	612+50	M/L	61250
				TOTAL 0010	61825

RIPRAP HEAVY

CATEGORY	STATION	TO	STATION	LOCATION	606.0300 CY	REMARKS
0010	367+15	-	367+75	RT	70	SW Quad of USH 61/Gray RD
				TOTAL 0010	70	

LOCATING NO-PASSING ZONES

CATEGORY	STATION	TO	STATION	LOCATION	648.0100 MI
0010	0+00	-	612+50		11.7
				TOTAL 0010	11.7

CONSTRUCTION STAKING SLOPE STAKES

CATEGORY	STATION	TO	STATION	LOCATION	650.9920 LF	REMARKS
0010	458+12	-	461+27	Lt	315	NW Quad - CTH W Embankment Widening
				TOTAL 0010	315	

SPECIAL 02. PAINTING BEAM GUARD

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0090.02 LF	REMARKS
0010	18+85'STH60'	-	19+70'STH60'	RT	159	Length includes MGS radius
	0+17	-	12+15	RT	1275	Length includes MGS radius
	25+07	-	51+75	RT	2678	
				TOTAL 0010	4112	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. 1650-02-21

STH 60 - USH 14

USH 61

CRAWFORD COUNTY



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, CRAWFORD COUNTY, NAD 83 (2011) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (¾"ø REBARS) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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

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

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING HIGHWAY RIGHT-OF-WAY FOR U.S.H. 61 ESTABLISHED FROM PREVIOUS PROJECT F 08-1(23), C.S.M. #1034, DOC. #286010, AND COUNTY RECORDS EXISTING RIGHT-OF-WAY FOR SIDE-ROADS ESTABLISHED FROM C.S.M. #1034, DOC. #286010, COUNTY RECORDS, THE CENTERLINE OF EXISTING PAVEMENT, AND WIS. STATUTE 82.31(2)

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLE'S EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A **PERMANENT LIMITED EASEMENT** (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO MAKE OR CONSTRUCT IMPROVEMENT ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIREABLE.

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

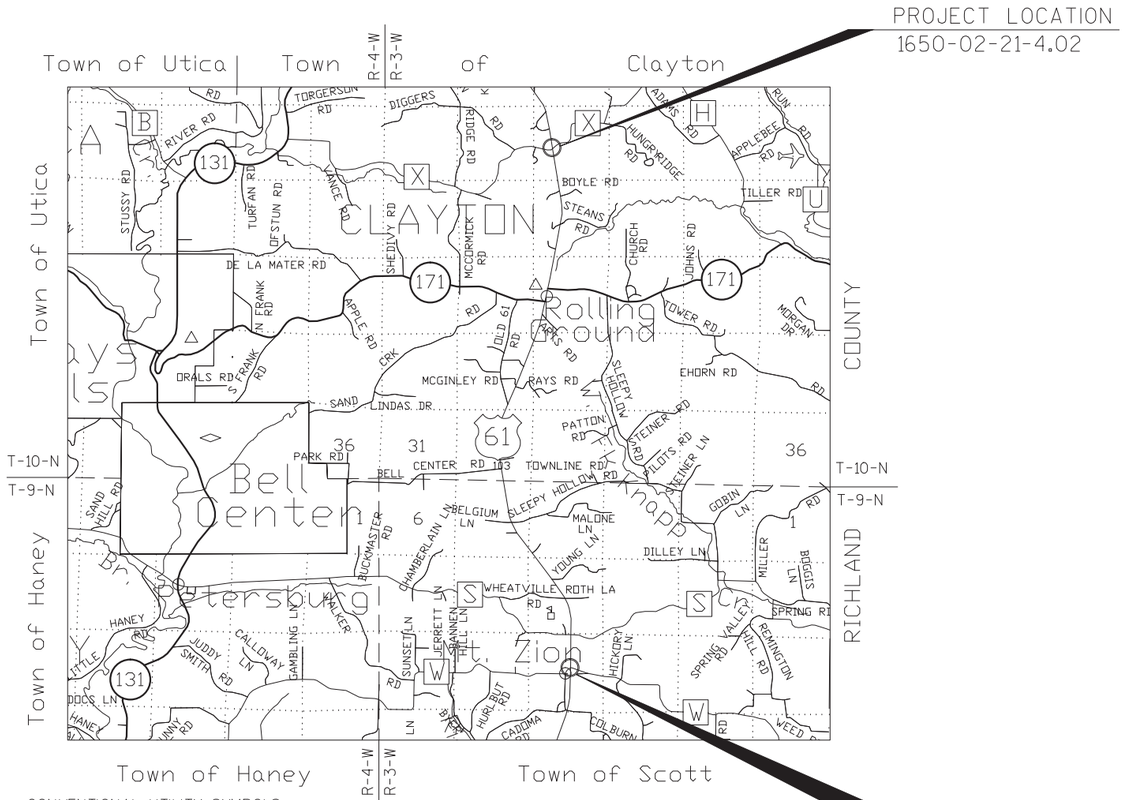
CONVENTIONAL ABBREVIATIONS

ACCESS POINT	AP	RELEASE OF RIGHTS	ROR
ACCESS RIGHTS	AR	REMAINING	REM.
ACRES	AC.	RIGHT-OF-WAY	R/W
AND OTHERS	ET.AL.	SECTION	SEC.
CENTERLINE	C/L	STATION	STA.
CERTIFIED SURVEY MAP	CSM	TEMPORARY LIMITED EASEMENT	TLE
CORNER	COR.	VOLUME	V.
DOCUMENT	DOC.		
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	P.	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN
REFERENCE LINE	R/L		

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN (1" UNLESS NOTED)
R/W MONUMENT ○ ●(SET)
R/W STANDARD △ ▲(SET)
SIGN ISIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT RWB20
PARCEL NUMBER 102
UTILITY INTEREST REQUIRED 10
SIGN NUMBER (OFF PREMISE) 21-7
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)
NO ACCESS (BY ACQUISTION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET



CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
TELEPHONE	T	
OVERHEAD TRANSMISSION LINES	OH	
ELECTRIC	E	
CABLE TELEVISION	TV	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE	○	●
TELEPHONE POLE	⌀	⌀
TELEPHONE PEDESTAL	⌶	⌶
ELECTRIC TOWER	⊠	

GN

SCALE, FEET
0 1 MI. 2 MI.

JEWELL
associates engineers, inc.
Engineers - Planners - Surveyors

SHEET 2 OF 2

FILE NAME : S:\PROJECTS\W11528 STH 61 TPP\SURVEY FILES\TPP SHEETS\W11528 TPP TITLE.DWG

PLOT DATE : 7/24/2014 11:22 AM

PLOT BY : Kraemer, Wes

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W ACRES REQUIRED			T.L.E. ACRES	P.L.E. ACRES
			NEW	EXISTING	TOTAL		
1	LOREN D. MINDHAM	FEE	0.14	--	0.14	--	--

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

TRANSPORTATION PROJECT PLAT NO: 1650-02-21- 4.01

LOCATED IN THE SW¼-NE¼ OF SECTION 16, TOWN 9 NORTH, RANGE 3 WEST, TOWN OF SCOTT, CRAWFORD COUNTY, WISCONSIN.

RELOCATION ORDER USH 61, CRAWFORD COUNTY

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

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.30, AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

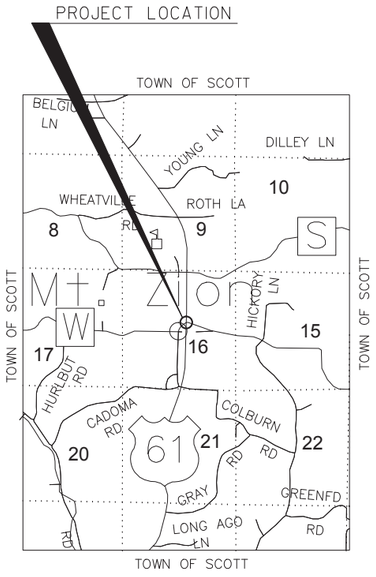
FOR ADDITIONAL INFORMATION REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2.

ACCEPTED FOR RECORDING AND FILING IN
THE OFFICE OF THE REGISTER OF DEEDS IN CRAWFORD COUNTY, WISCONSIN
AT 11:44 A.M. ON AUG. 22, 2016 AS

DOCUMENT # 330244
AND FILED IN PLAT CABINET 3PL
ENVELOPE 46

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1650-02-21-4.01
SHEET 1 OF 2

PROJECT LOCATION



N¼ CORNER SEC. 16
FOUND 2" IRON PIPE
WITH BRASS CAPP
Y = 199,218.26'
X = 427,129.16'

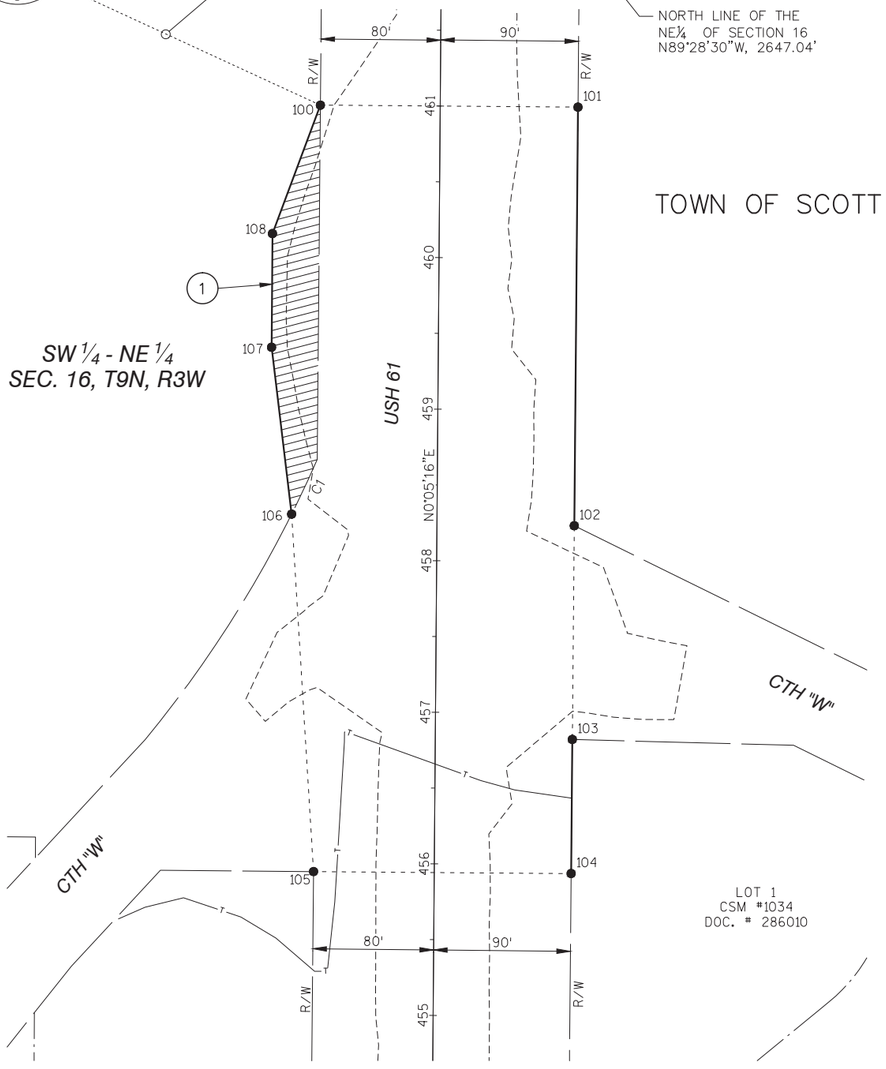
T. 9 N. 9 16 R. 3 W.

S09°46'16"E, 1887.93'

NORTH LINE OF THE NE¼ OF SECTION 16 N89°28'30"W, 2647.04'

T. 9 N. 9 10 16 15 R. 3 W.

N.E. CORNER SEC. 16
FOUND HARRISON MONUMENT
Y = 199,194.00'
X = 429,776.14'



TOWN OF SCOTT

COORDINATE TABLE – R/W POINTS				
PT.#	STATION	OFFSET	Y	X
100	461+00.00	79.04 LT	197357.70	427449.55
101	461+00.00	90.96 RT	197357.44	427619.55
102	458+23.78	90.65 RT	197081.23	427618.81
103	456+82.76	90.49 RT	196940.20	427618.44
104	455+94.26	90.39 RT	196851.70	427618.20
105	455+94.26	79.61 LT	196851.96	427448.20
106	458+30.00	95.91 LT	197087.73	427432.26
107	459+40.00	110.00 LT	197197.75	427418.34
108	460+15.00	110.00 LT	197272.75	427418.46

R/W COURSE TABLE		
PT. TO PT.	DIRECTION	DISTANCE
100 TO 101	S89°54'44"E	170.00'
101 TO 102	S0°09'10"W	276.22'
102 TO 103	S0°09'10"W	141.03'
103 TO 104	S0°09'10"W	88.50'
104 TO 105	N89°54'44"W	170.00'
105 TO 106	N03°52'03"W	236.30'
106 TO 107	N7°12'41"W	110.90'
107 TO 108	N00°05'16"E	75.00'
108 TO 100	N20°06'09"E	90.46'

GN

SCALE, FEET
0 50 100

JEWELL associates engineers, inc.
Engineers - Architects - Surveyors

I, SCOTT D. WARNER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 1650-02-21-4.01, AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

(SIGNATURE) _____ DATE 8/12/16
(PRINTED NAME) SCOTT D. WARNER
(REGISTRATION NUMBER) S-2524

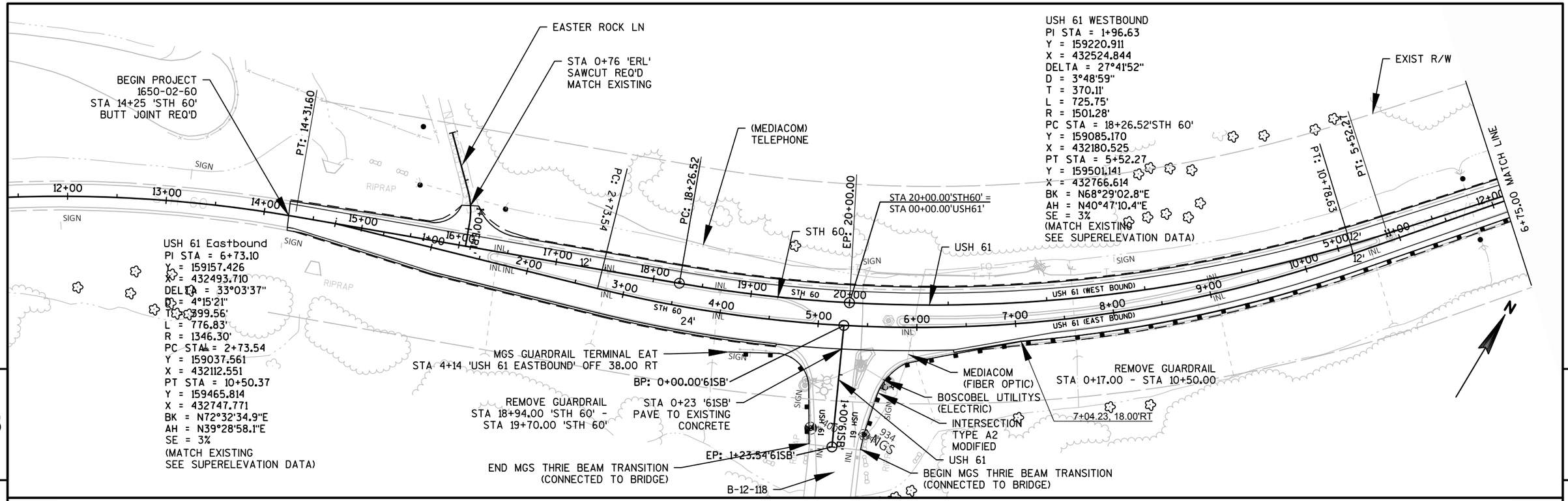
WISCONSIN SCOTT D. WARNER S-2524 RICHLAND CENTER, WI LAND SURVEYOR

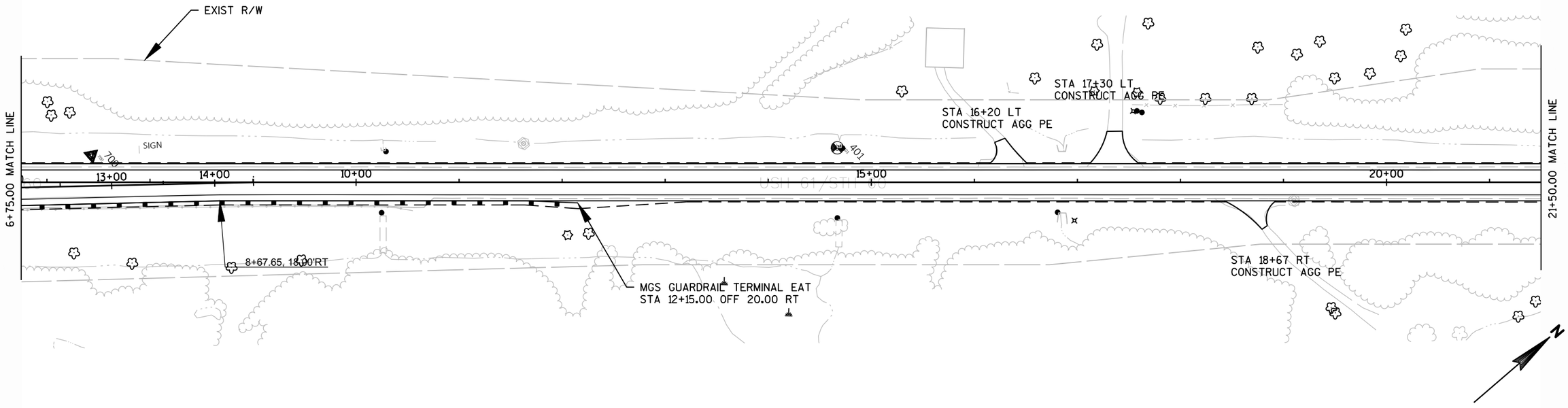
THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

(SIGNATURE) _____ DATE 8/16/16
(PRINTED NAME) CORY SCHLAGEL

APPRAISAL PLAT DATE:

4.01



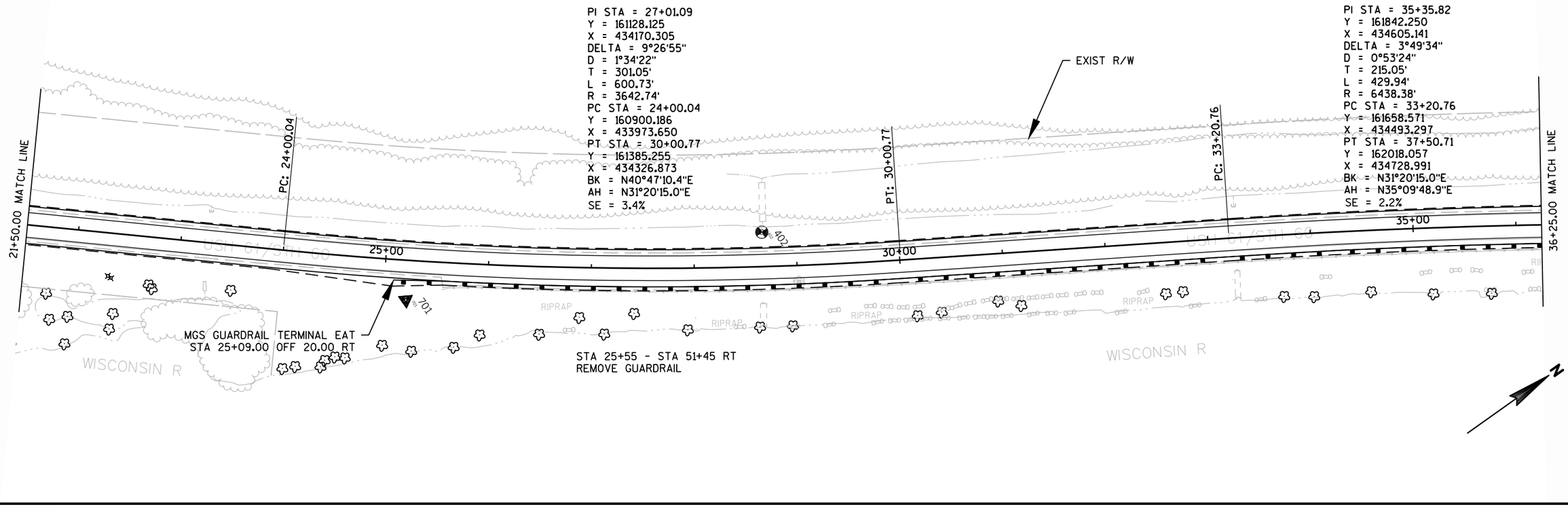


PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 83	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\050201-PN.DWG
LAYOUT NAME - 050201-PN - 0502(01)_PN

PLOT DATE : 2/1/2017 11:29 AM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 84 E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\050201-PN.DWG
LAYOUT NAME - 050201-PN - 0502(03)_PN

PLOT DATE : 2/1/2017 11:29 AM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

PI STA = 57+43.49
Y = 163647.174
X = 435876.658
DELTA = 72°47'48"
D = 2°35'35"
T = 1628.92'
L = 2807.33'
R = 2209.56'
PC STA = 41+14.56
Y = 162315.511
X = 434938.539
PT STA = 69+21.89
Y = 164937.181
X = 434882.034
BK = N35°09'48.9"E
AH = N37°37'58.9"W
SE = 4.7%

51+00.00 MATCH LINE

MGS GUARDRAIL TERMINAL EAT
STA 51+90.00 OFF 20.00 RT

55+00

60+00

STA 57+00 RT
29' OFFSET
SAW CUT REQ'D
MATCH EXISTING

MGS GUARDRAIL TERMINAL EAT
STA 57+35.00 OFF 20.00 RT

MGS GUARDRAIL TERMINAL EAT
STA 61+29.00 OFF 26.80 RT

STA 57+35 TO 61+23
REMOVE EXISTING GUARDRAIL

(TELEVISION)
STA 0+90 'MVS'
SAWCUT REQ'D
MATCH EXISTING

DAIRYLAND POWER COOP
(ELECTRIC)
EXIST R/W
EXIST R/W

MARIETTA
VALLEY RD

INTERSECTION
TYPE D

(ELECTRIC)
MEDIACOM
(FIBER OPTIC)
MEDIACOM
(TELEPHONE)

STA 2+03.48'MVS' =
STA 00+00.00'60E' =
STA 64+77.94

SAWCUT

2+00

65+75.00 MATCH LINE

INTERSECTION
TYPE A2
MODIFIED

STH 60E

1+00'60E'

2+00'60E'

STA 2+10 '60E'
BUTT JOINT REQ'D
MATCH EXISTING

EP: 2+41.10'60E'

DO NOT DISTURB
ARCHAEOLOGICAL
SITE STA 65+00
- STA 73+00
- RT

DO NOT DISTURB
ARCHAEOLOGICAL
SITE STA 68+25 -
STA 73+50 - LT

BP: 0+00.00'MVS'

PT: 69+21.89

STA 70+65 LT
CONSTRUCT AGG FE

EXIST R/W

DO NOT DISTURB
ARCHAEOLOGICAL
SITE STA 74+50 -
STA 78+00 - RT

STA 77+17 TO 77+70
REMOVE EXISTING GUARDRAIL

MGS GUARDRAIL TERMINAL EAT
STA 77+17.00 OFF 21.00 LT

STA 75+77 LT
CONSTRUCT AGG PE

65+75.00 MATCH LINE

70+00

75+00

80+00

80+50.00 MATCH LINE

STA 70+50 RT
CONSTRUCT AGG FE

STA 70+50 RT
CONSTRUCT AGG FE

STA 75+70 RT
CONSTRUCT AGG PE

MGS GUARDRAIL TERMINAL EAT
STA 77+20.00 OFF 21.00 RT

STA 77+20 TO 77+73
REMOVE EXISTING GUARDRAIL

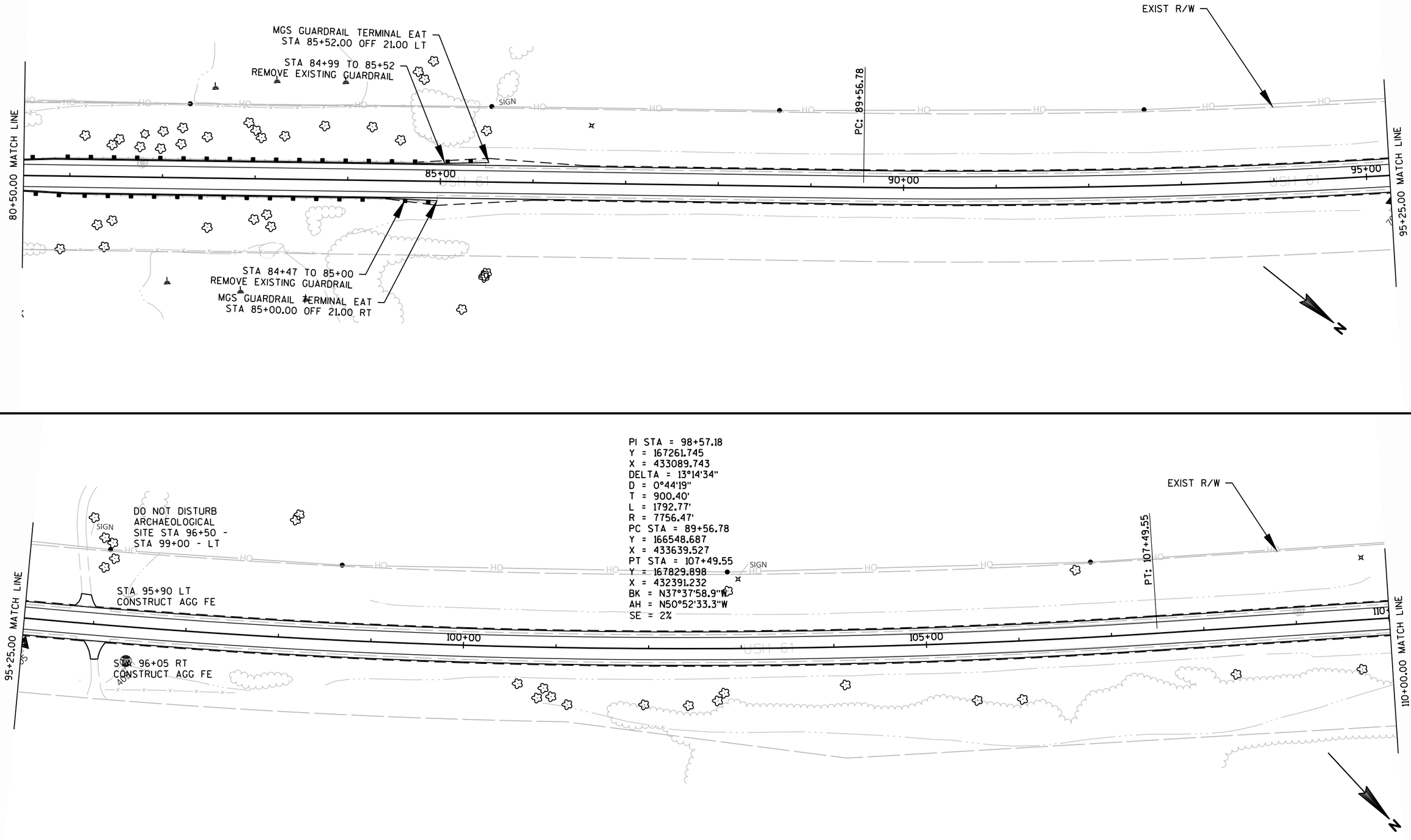
B-12-0019 2" POLYMER MODIFIED
ASPHALTIC OVERLAY (SEE
STRUCTURE DESIGN SHEETS)

RICHLAND CREEK

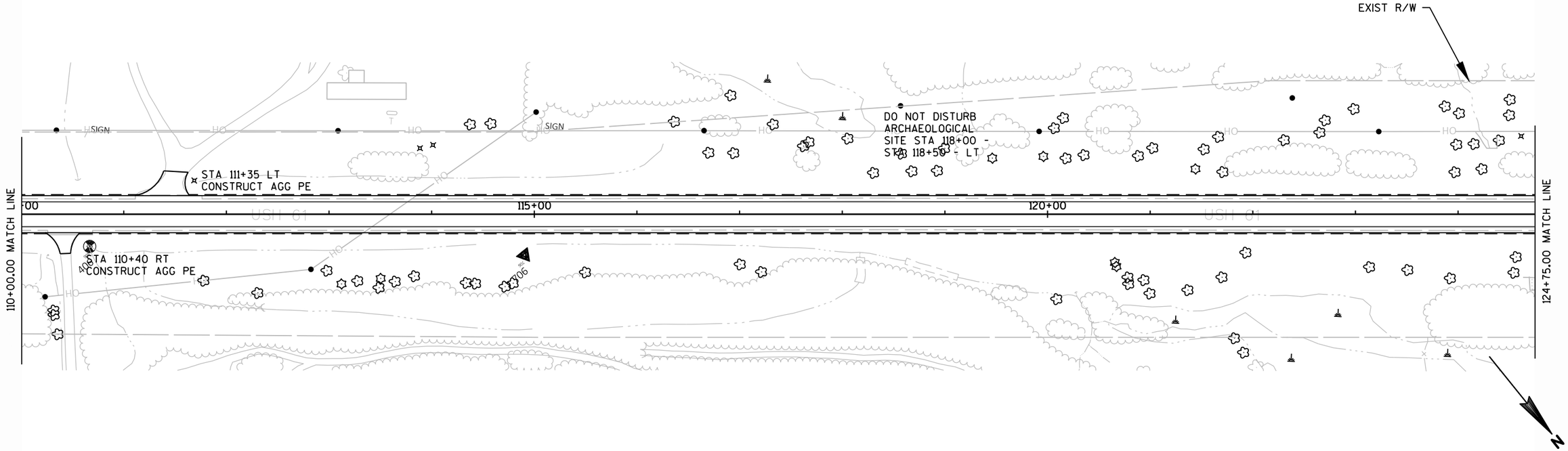
DO NOT DISTURB
ARCHAEOLOGICAL
SITE STA 65+00 -
STA 73+00 - RT

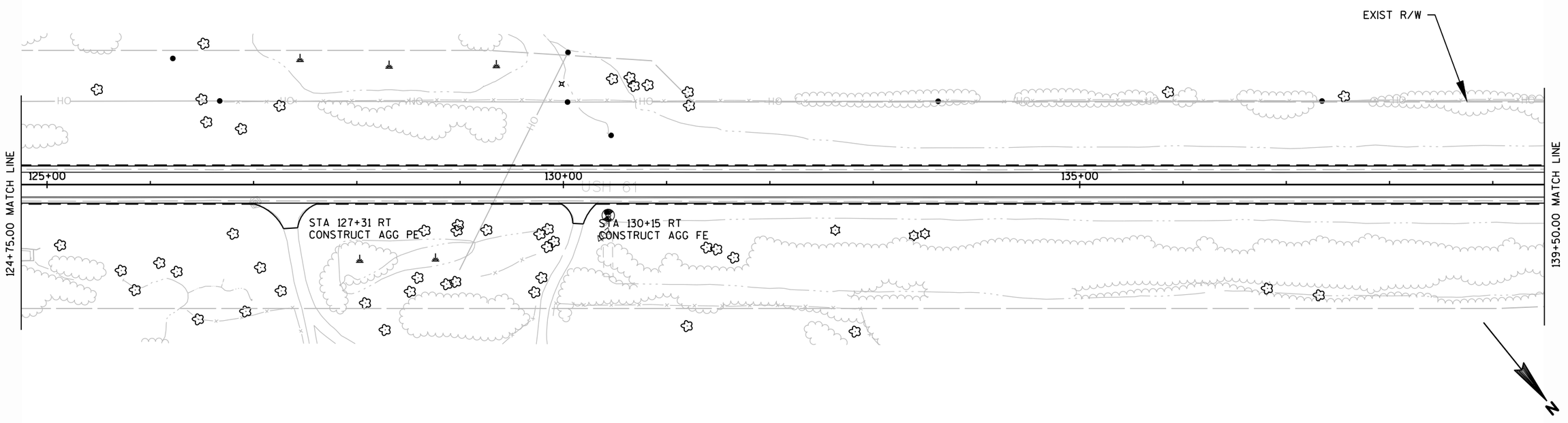
DO NOT DISTURB
ARCHAEOLOGIC SITE
STA 74+00 - STA
79+00 - RT

PROJECT NO:1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 85	E

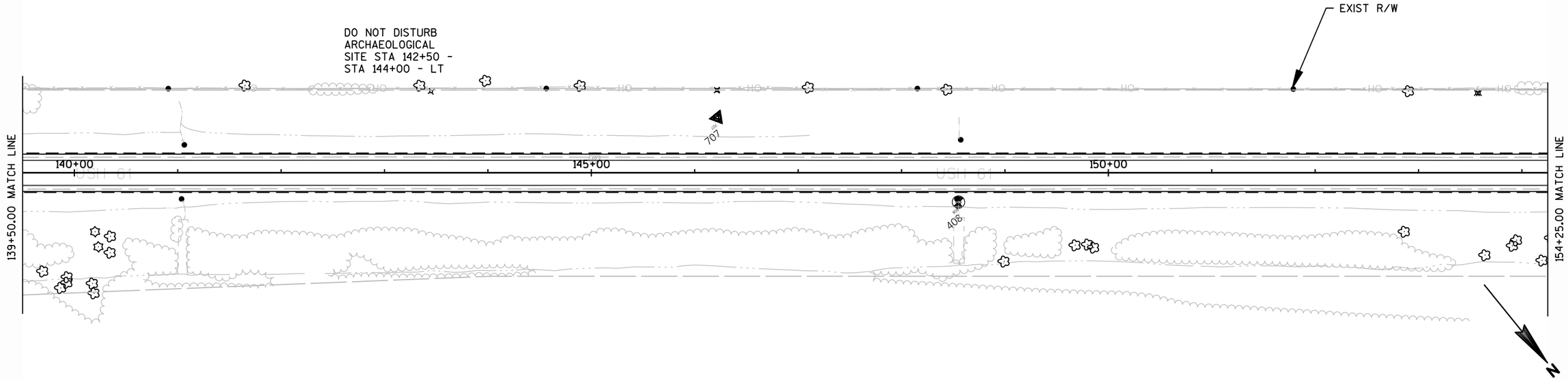


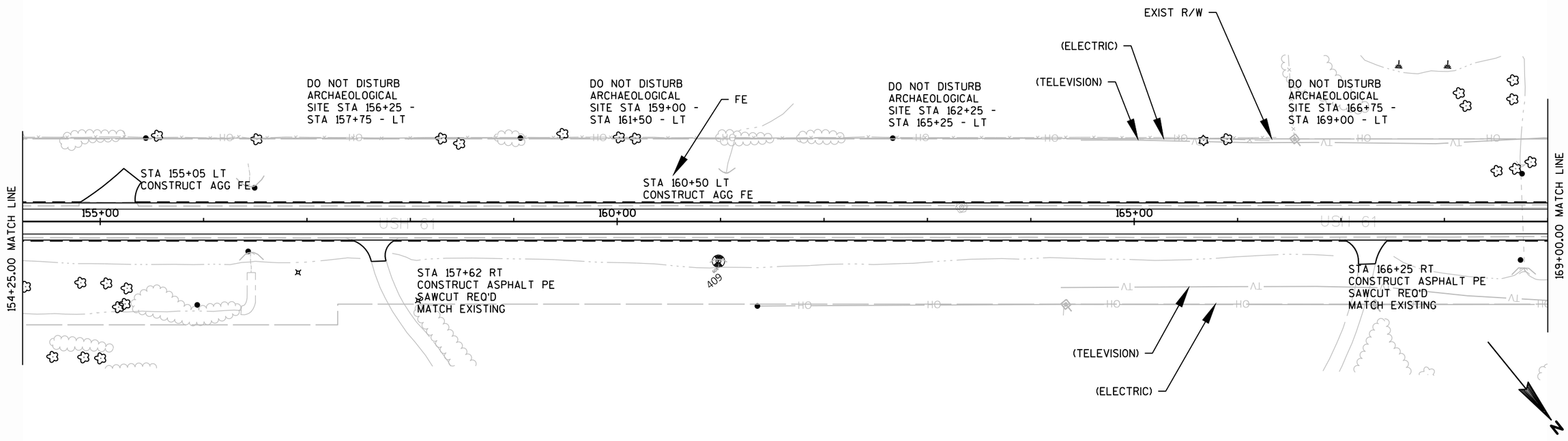
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 86	E





PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 87	E

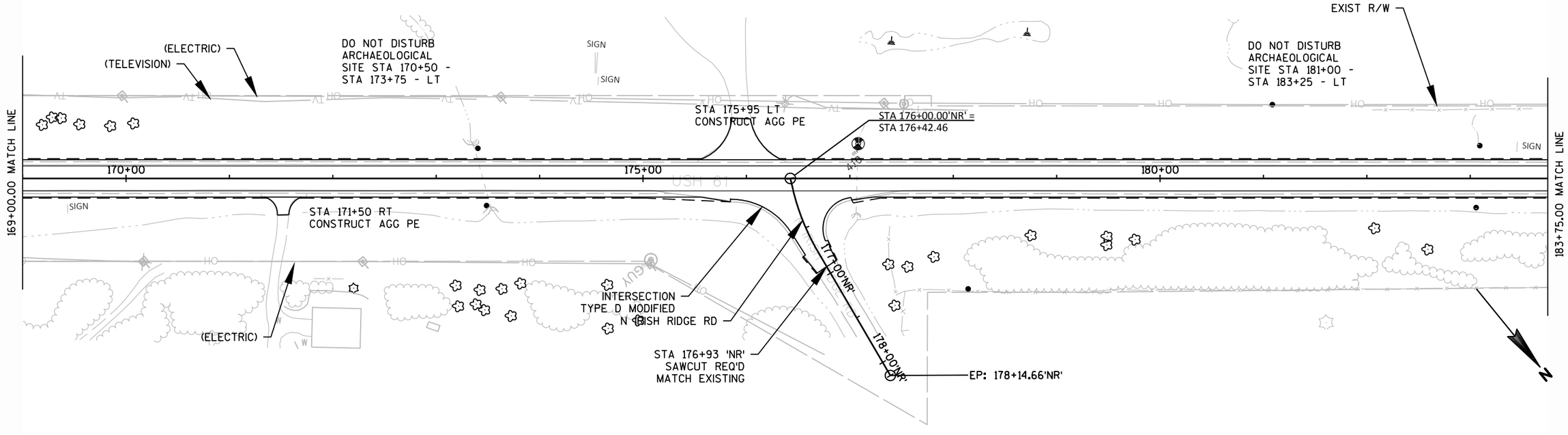


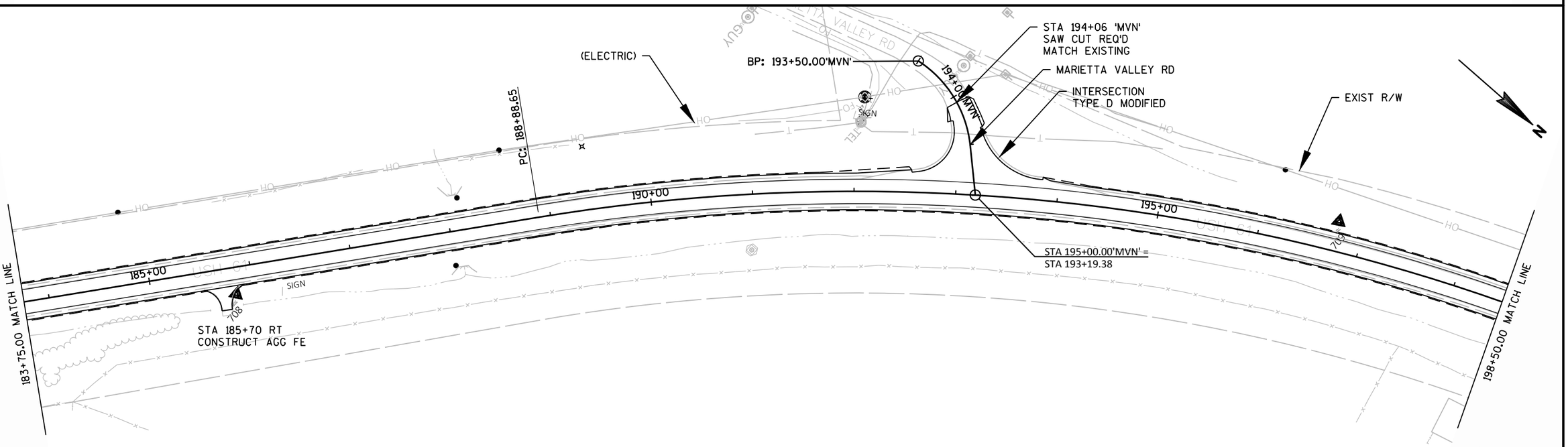


PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 88	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\050201-PN.DWG
LAYOUT NAME - 050201-PN - 0502(11)_PN

PLOT DATE : 2/1/2017 11:31 AM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:100 FT



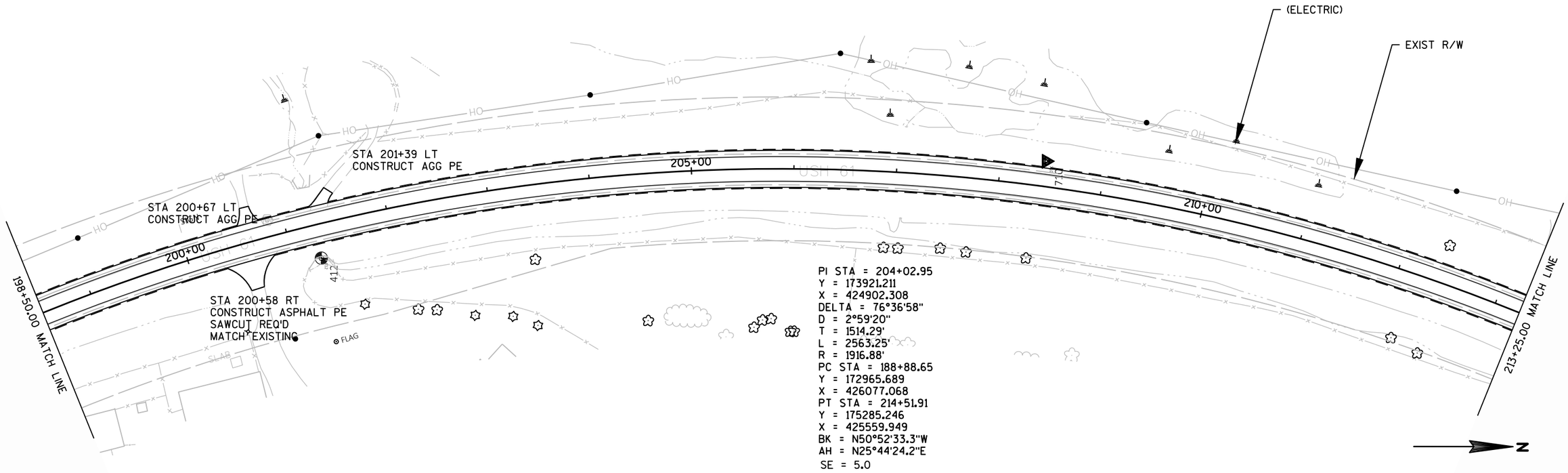


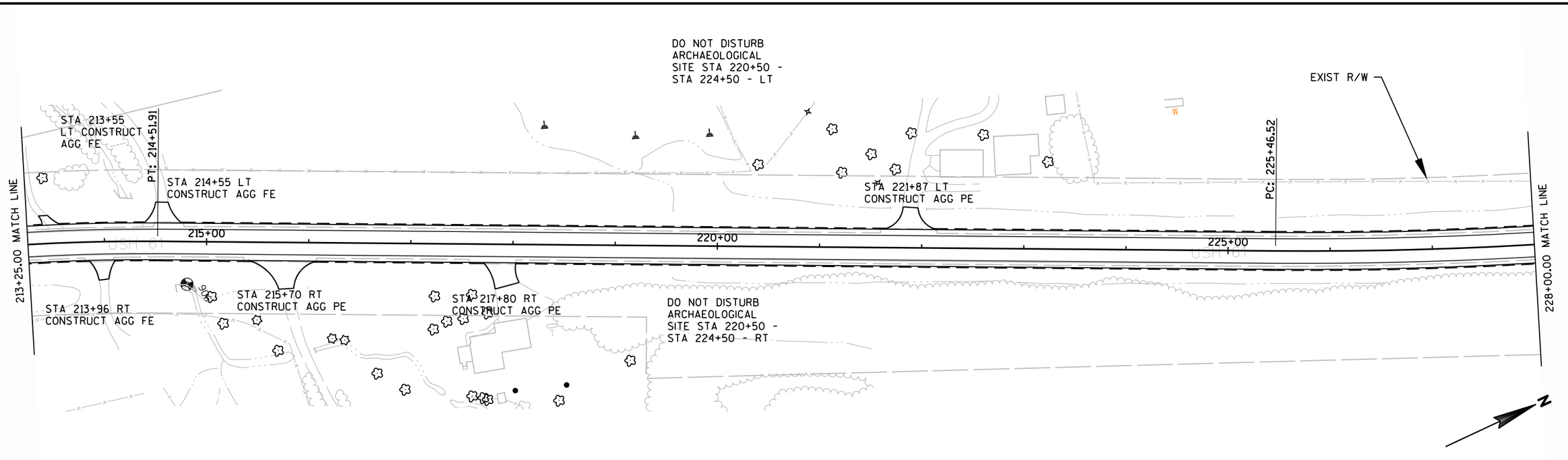
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 89	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\050201-PN.DWG
LAYOUT NAME - 050201-PN - 0502(13)_PN

PLOT DATE : 2/1/2017 11:32 AM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



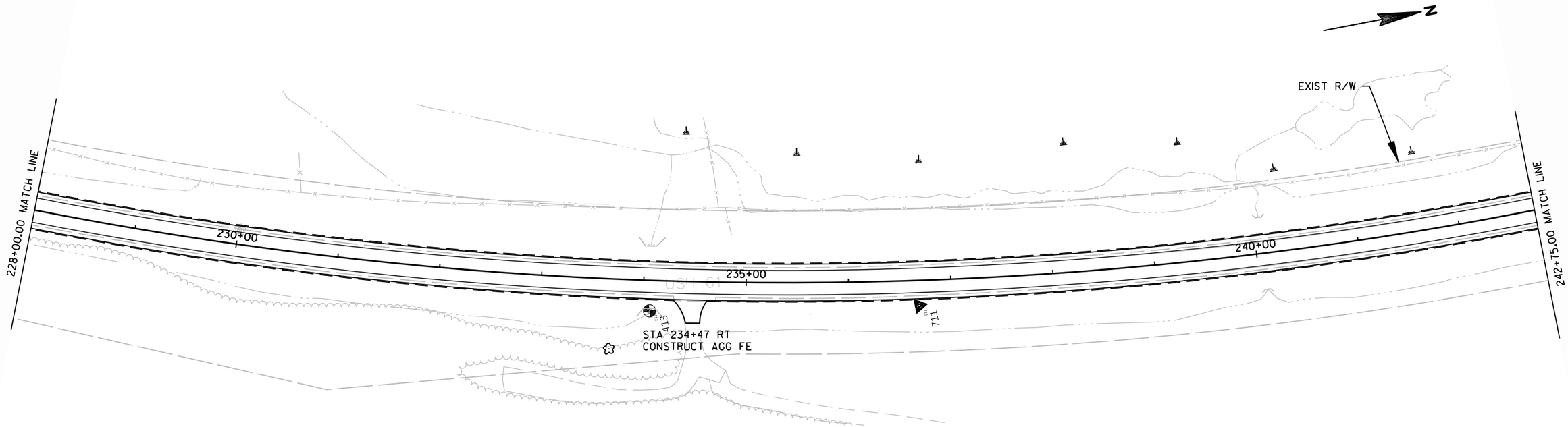


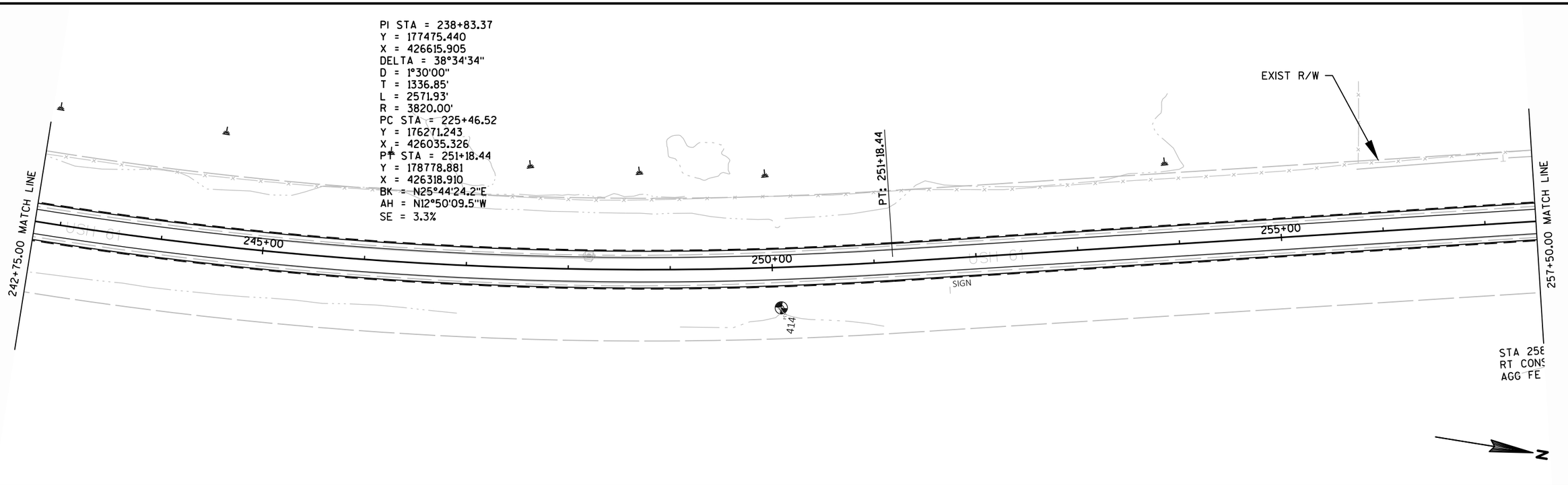
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 90	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\050201-PN.DWG
LAYOUT NAME - 050201-PN - 0502(15)_PN

PLOT DATE : 2/1/2017 11:32 AM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 91	E

DO NOT DISTURB
ARCHAEOLOGICAL
SITE STA 257+00 -
STA 261+25 - LT

BP: 257+00.00'SH'

STA 258+01 'SH'
SAWCUT REQ'D
MATCH EXISTING

SPENCER HILL RD

INTERSECTION
TYPE C

(TELEVISION)

EXIST R/W

BP: 265+00.00'PR'

PRICE DR

BARRIER SYSTEM GRADING
SHAPING FINISHING
STA 267+56 TO STA 269+26 LT

MGS GUARDRAIL TERMINAL EAT
STA 268+76.00 OFF 20.00 LT

STA 269+10 TO STA 271+32
REMOVE EXISTING GUARDRAIL

MGS GUARDRAIL TERMINAL EAT
STA 272+07.00 OFF 20.00 LT

257+50.00 MATCH LINE

STA 258+71.87'SH' =
STA 258+86.31

STA 264+80 LT
CONSTRUCT AGG PE

STA 268+28 LT
CONSTRUCT AGG PE

260+00

265+00

270+00

USH 61

STA 259+00.00'DV' =
STA 258+53.22

STA 265+70.12'PR' =
STA 264+84.40

EP: 259+70.66'DV'

STA 258+50 RT
CONSTRUCT AGG PE

MGS GUARDRAIL TERMINAL EAT
STA 269+80.00 OFF 20.00 RT

STA 269+80 TO STA 272+48
REMOVE EXISTING GUARDRAIL

DEVLIN DR

PI STA = 283+03.78
Y = 181884.618
X = 425611.252
DELTA = 50°26'53"
D = 4°29'59"
T = 599.82'
L = 1121.12'
R = 1273.30'
PC STA = 277+03.96
Y = 181299.786
X = 425744.509
PT STA = 288+25.08
Y = 182154.279
X = 425075.464
BK = N12°50'09.5"W
AH = N63°17'02.4"W
SE = 7.6%

EXIST R/W

287+00.00 MATCH LINE

272+25.00 MATCH LINE

STA 275+15 LT
CONSTRUCT AGG FE

PC: 277+03.96

275+00

280+00

285+00

MEDIACOM
(FIBER OPTIC)

STA 284+00.00'GH' =
STA 283+96.33

(TELEPHONE)

INTERSECTION
TYPE D

GRAHAM HOLLOW RD

STA 285+04 'GH'
SAWCUT REQ'D
MATCH EXISTING

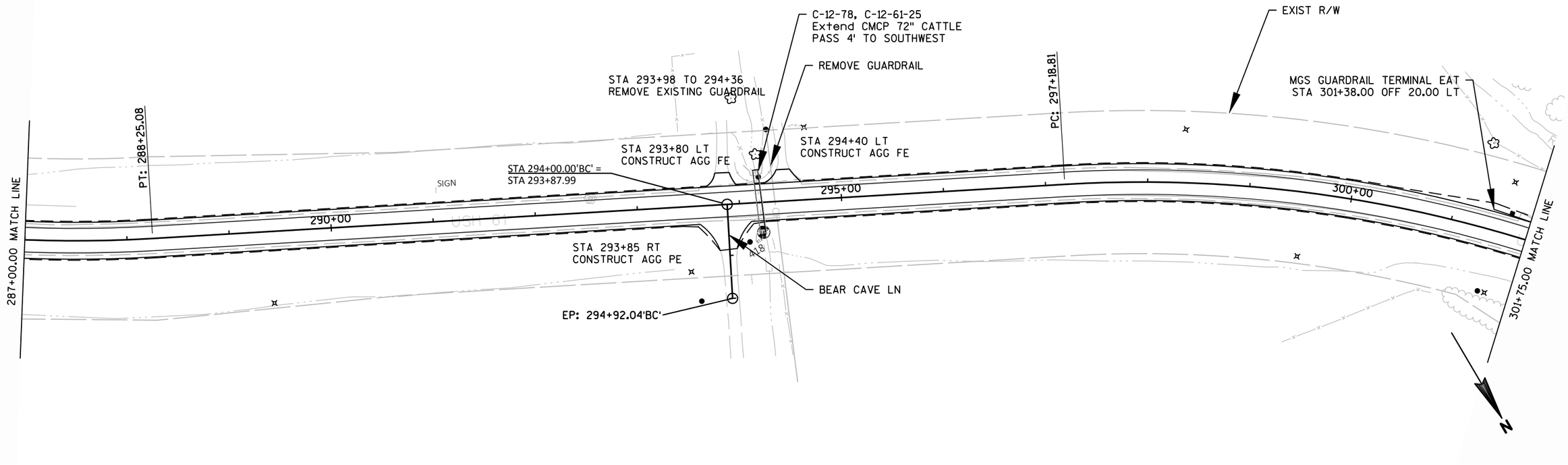
MGS GUARDRAIL TERMINAL EAT
STA 272+99.00 OFF 20.00 RT

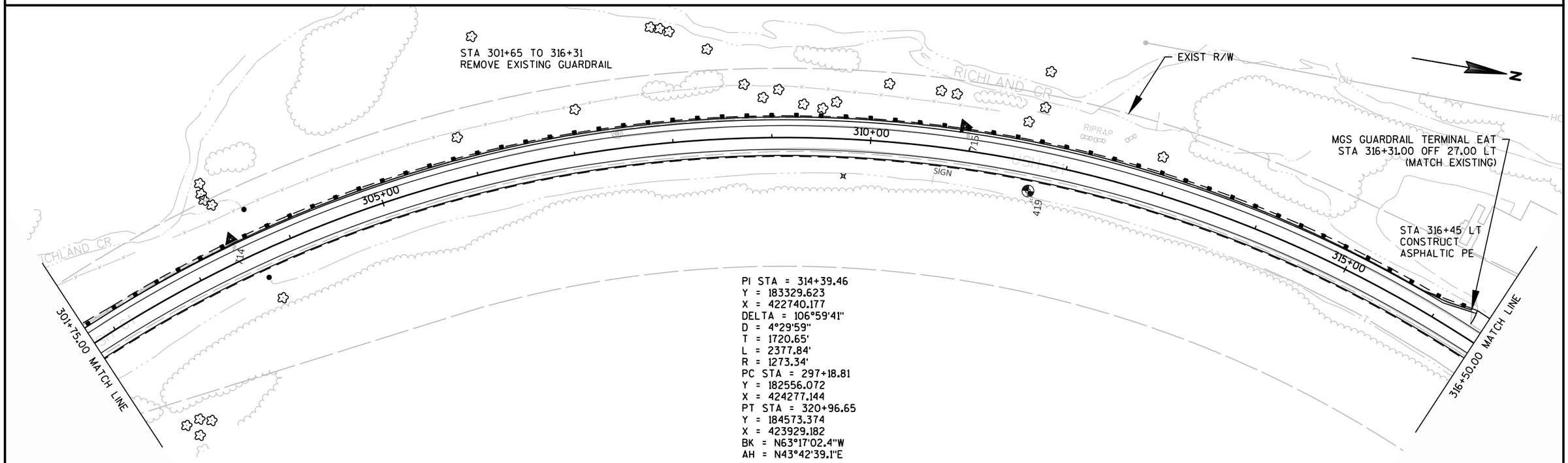
BARRIER SYSTEM GRADING
SHAPING FINISHING
STA 272+49 TO STA 274+19 RT

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 92	E

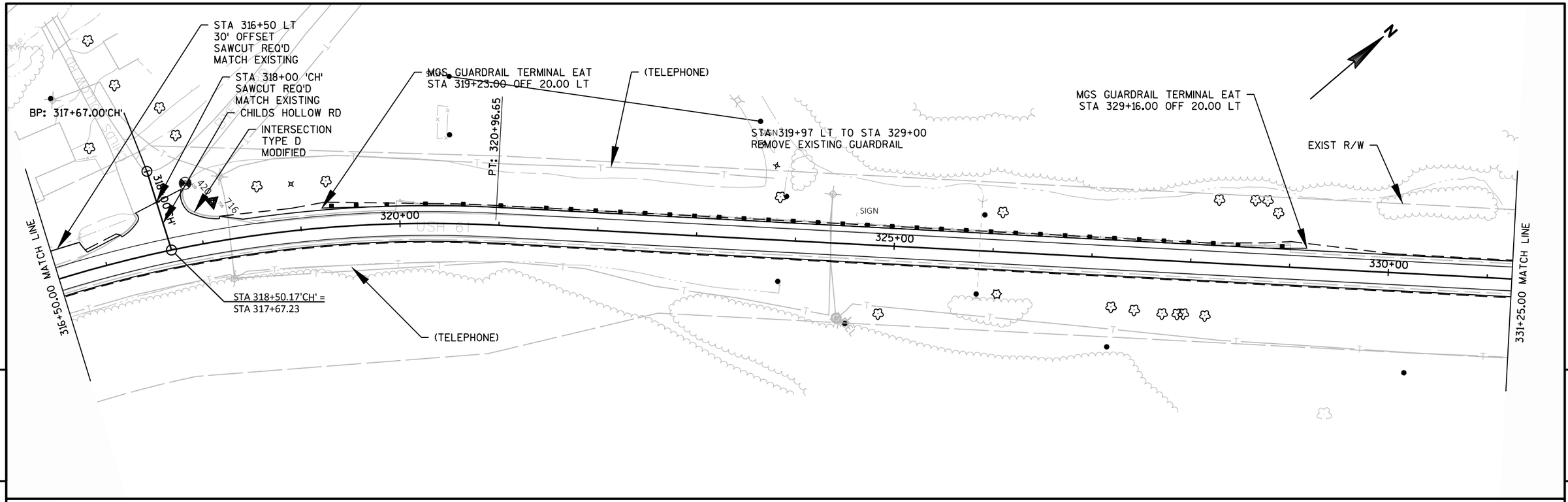
FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\050201-PN.DWG
LAYOUT NAME - 050201-PN - 0502(19)_PN

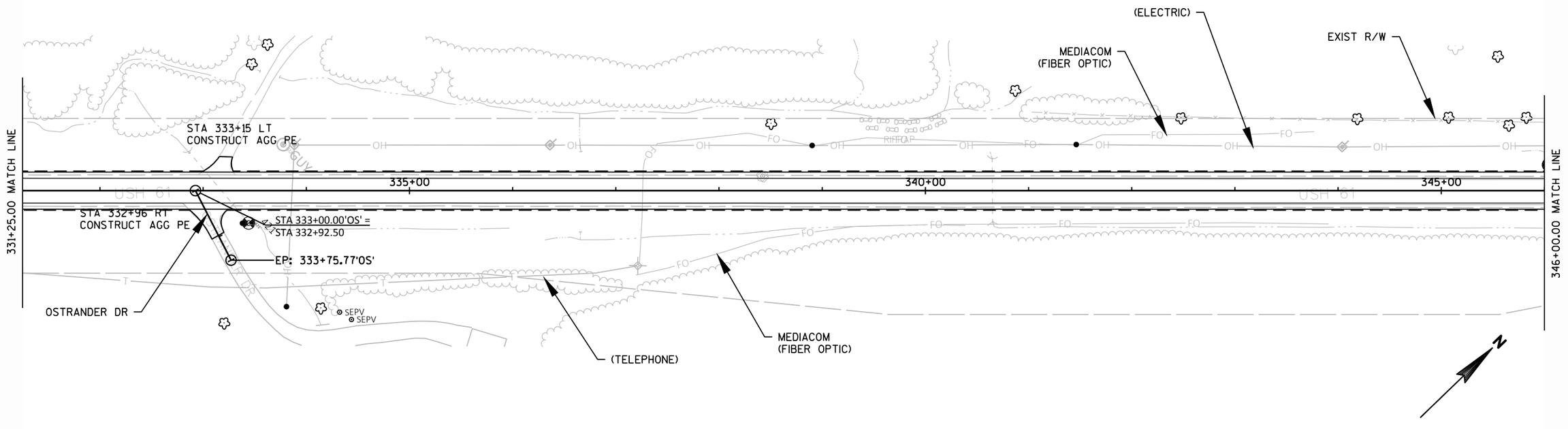
PLOT DATE : 2/1/2017 11:34 AM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:100 FT





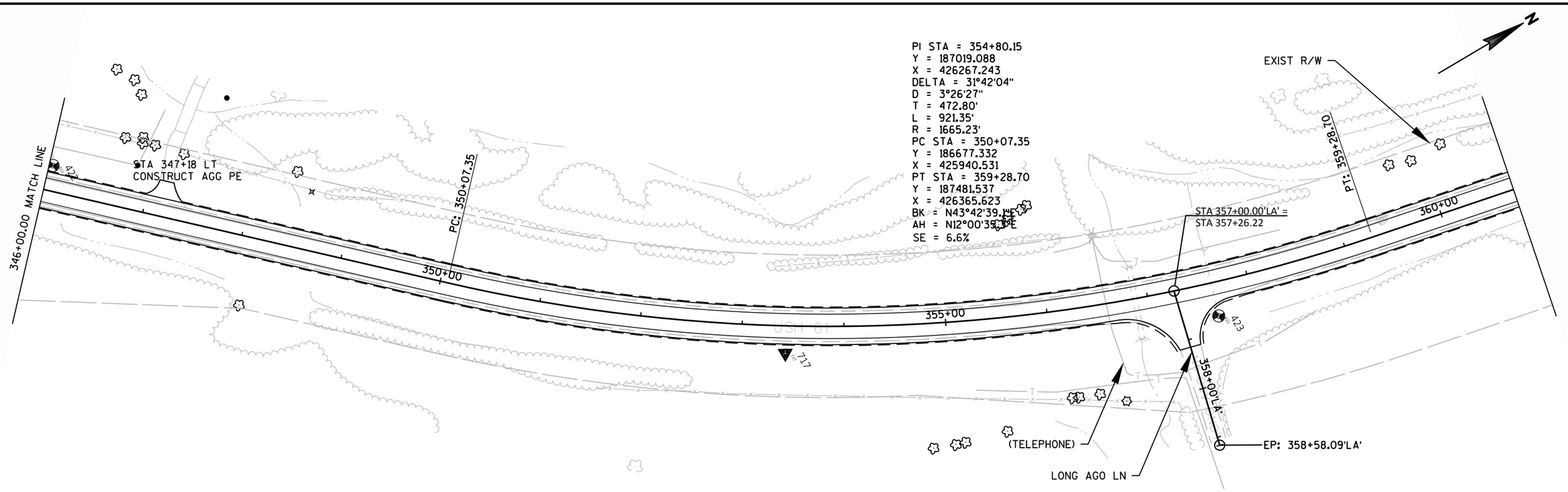
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 93	E

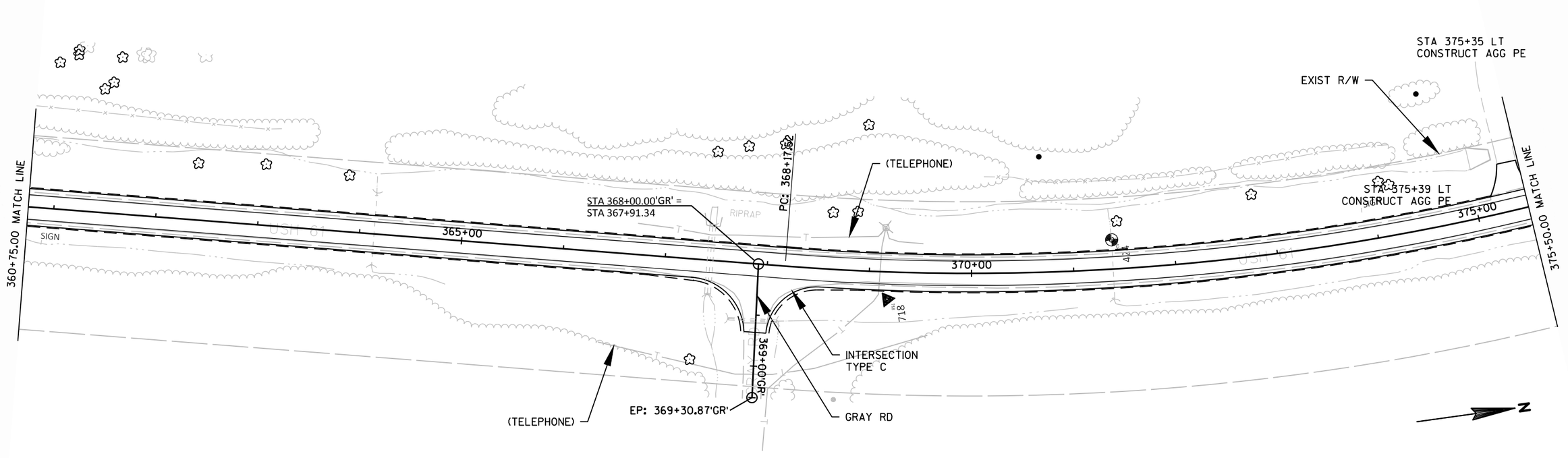




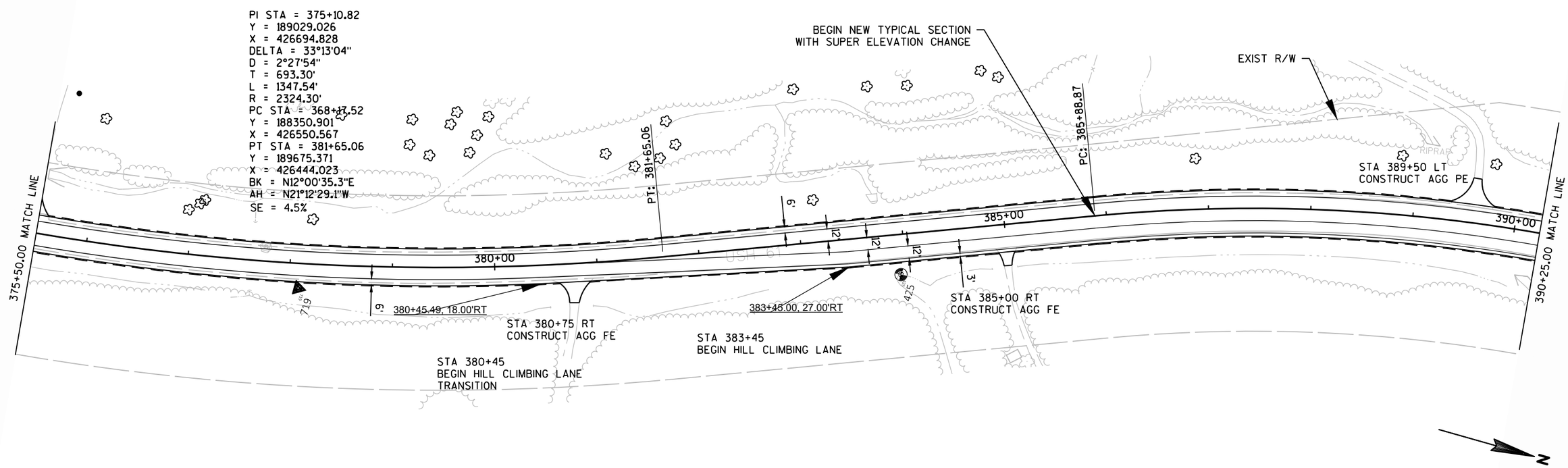
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET	E

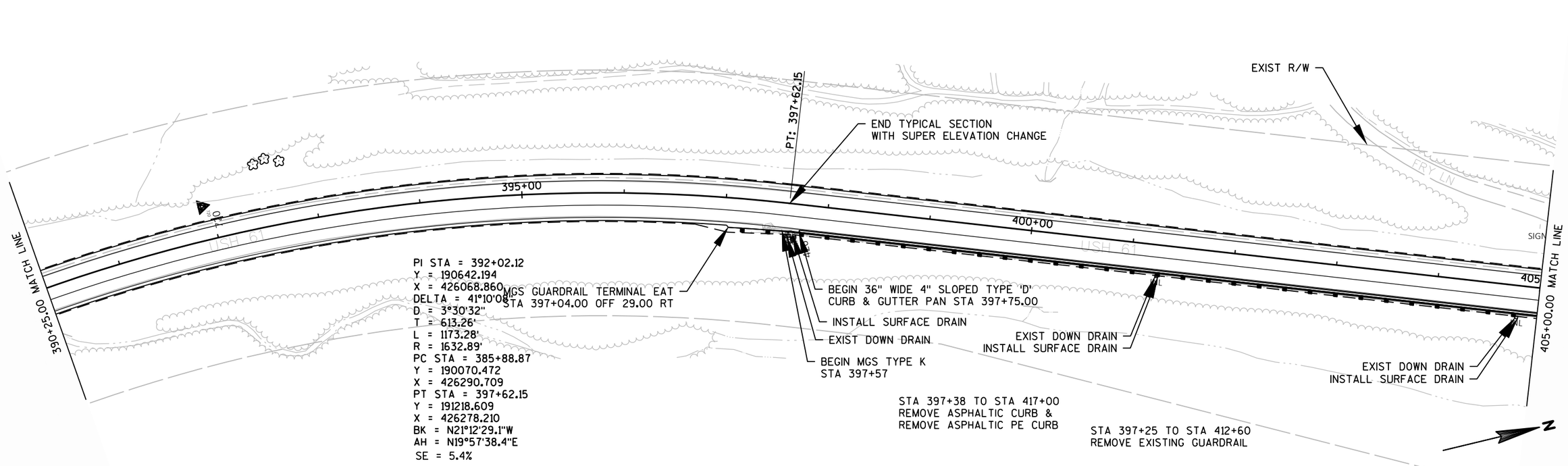
FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\050201-PN.DWG
LAYOUT NAME - 050201-PN - 0502(23)_PN
PLOT DATE : 2/1/2017 11:35 AM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



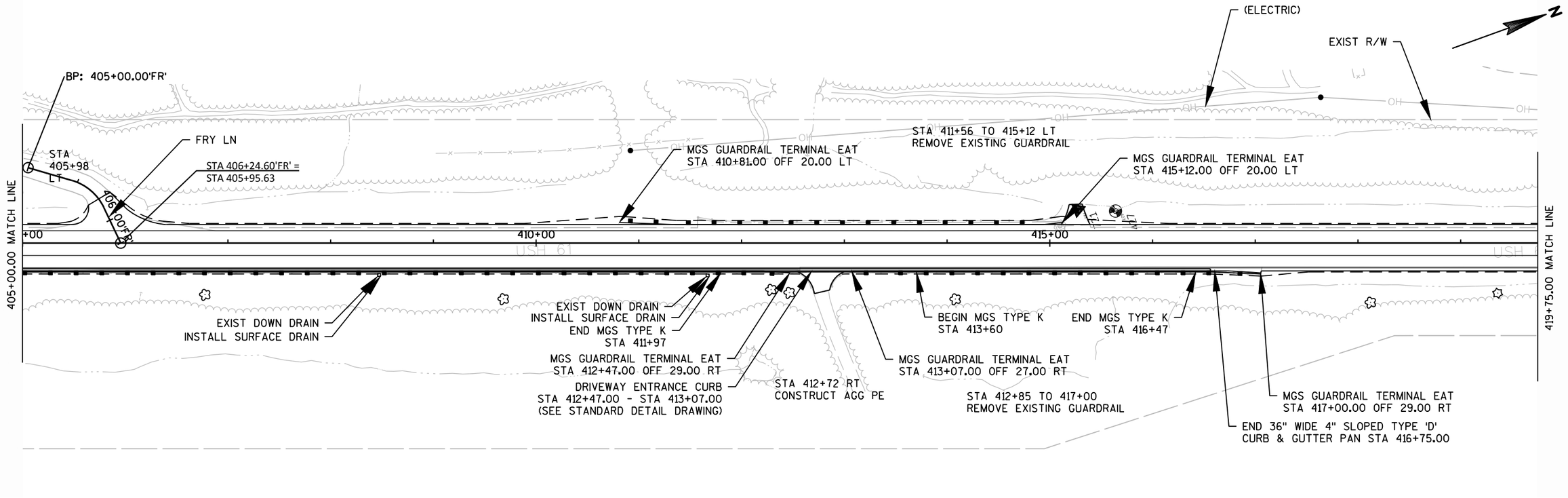


PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 95	E

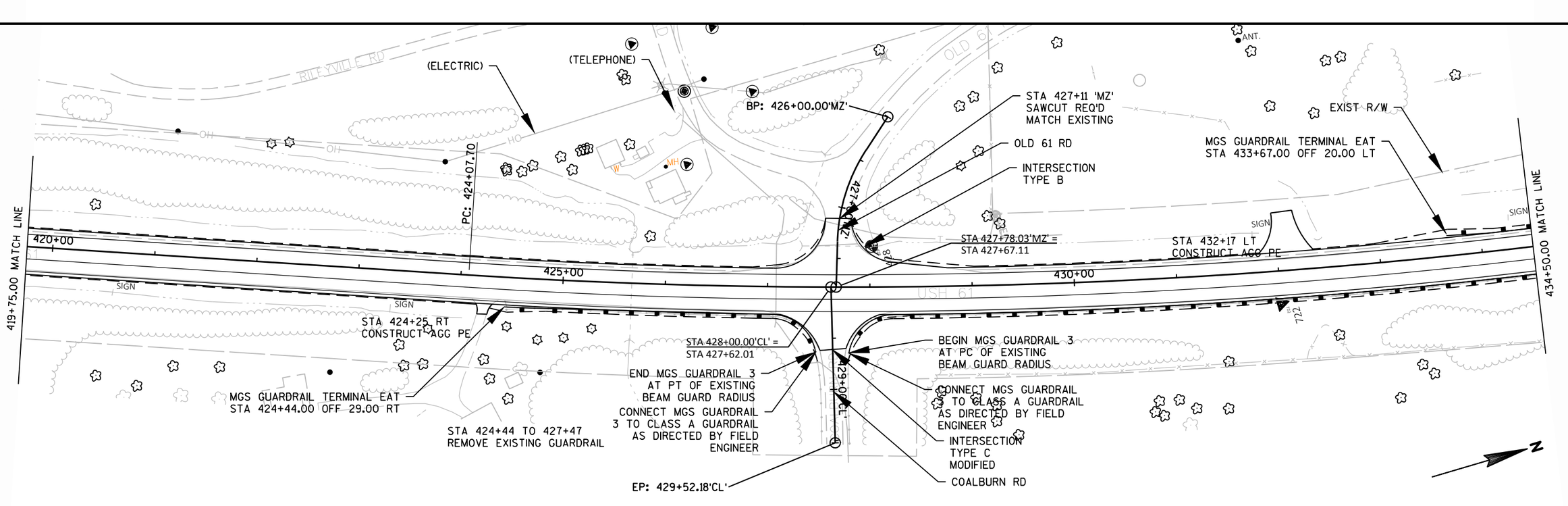




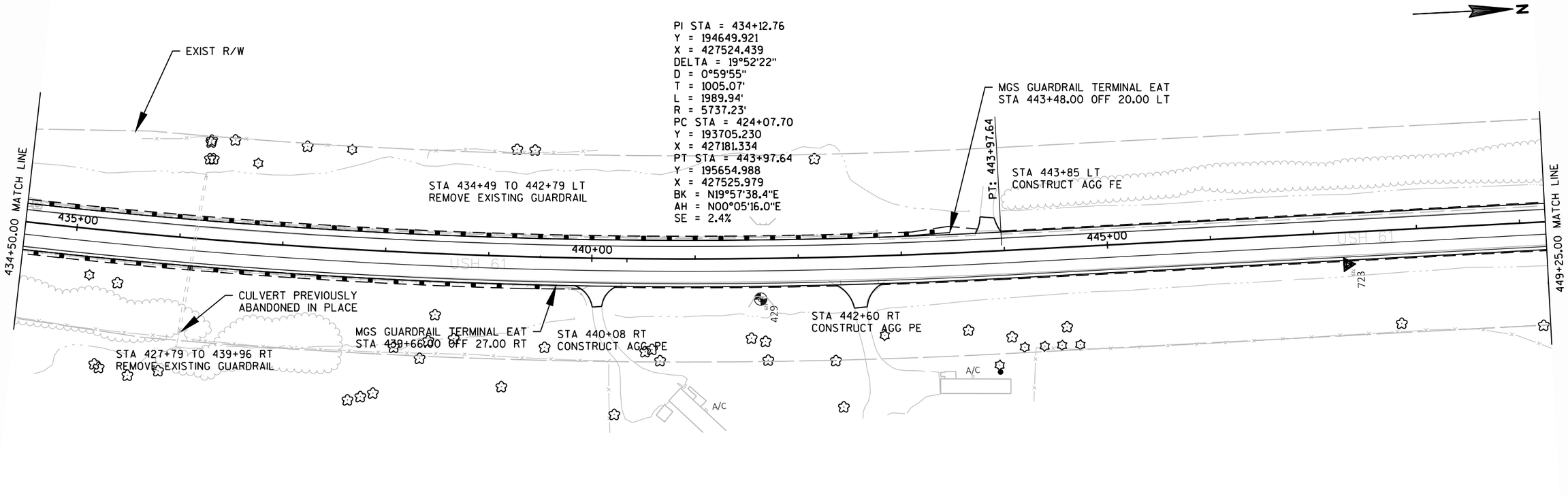
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 96	E



5

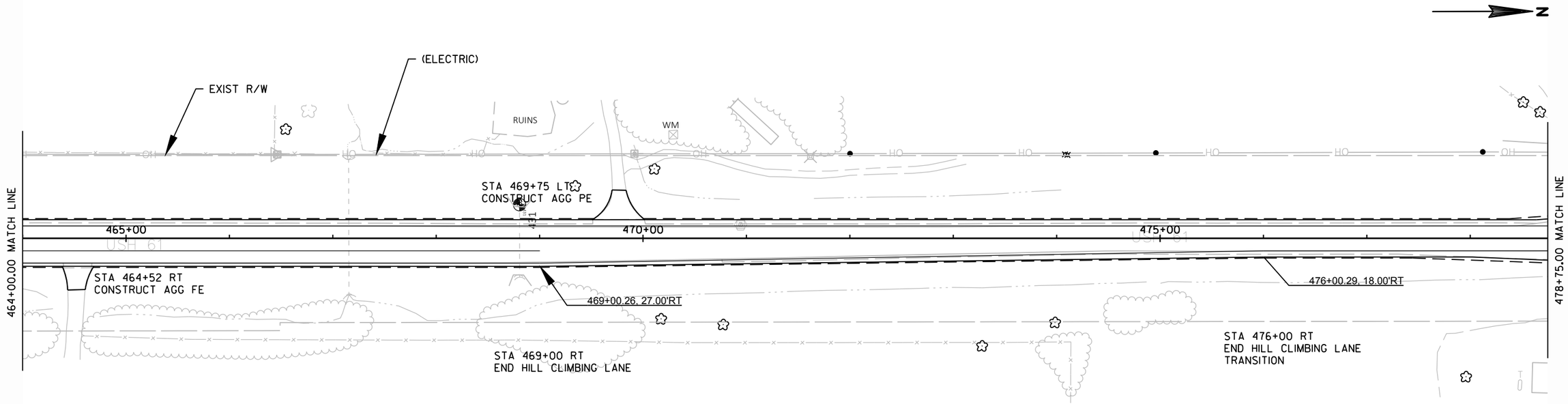


PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 97	E



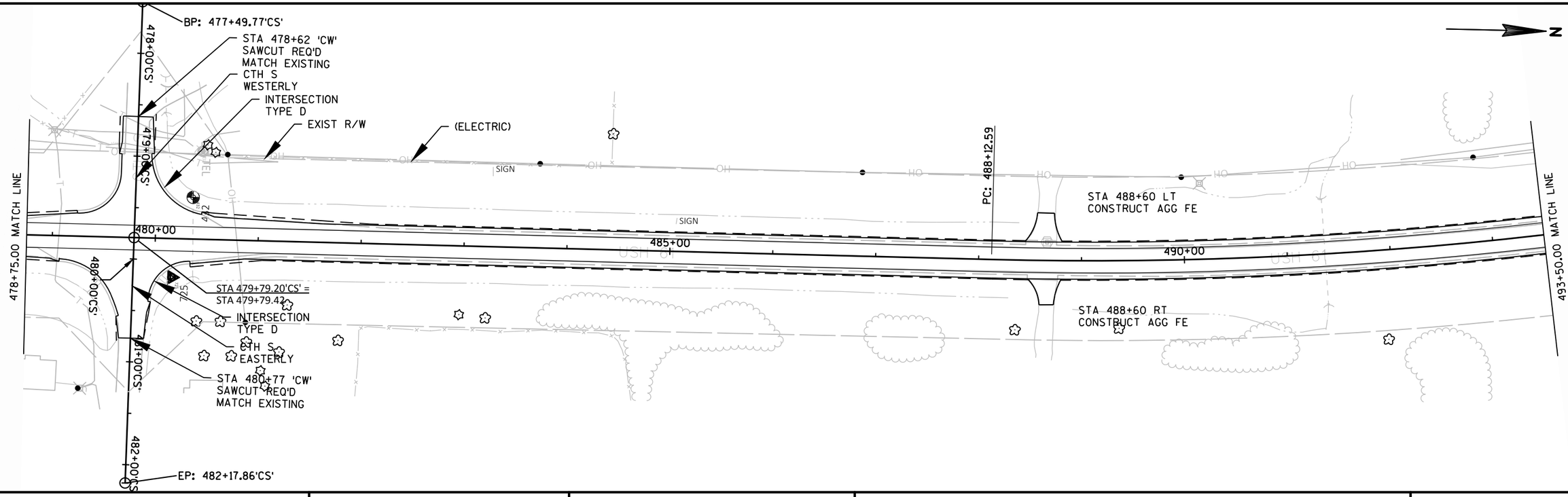
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 98	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\050201-PN.DWG
LAYOUT NAME - 050201-PN - 0502(31)_PN
PLOT DATE : 2/1/2017 11:37 AM PLOT BY : PETERSON, SHANE J PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

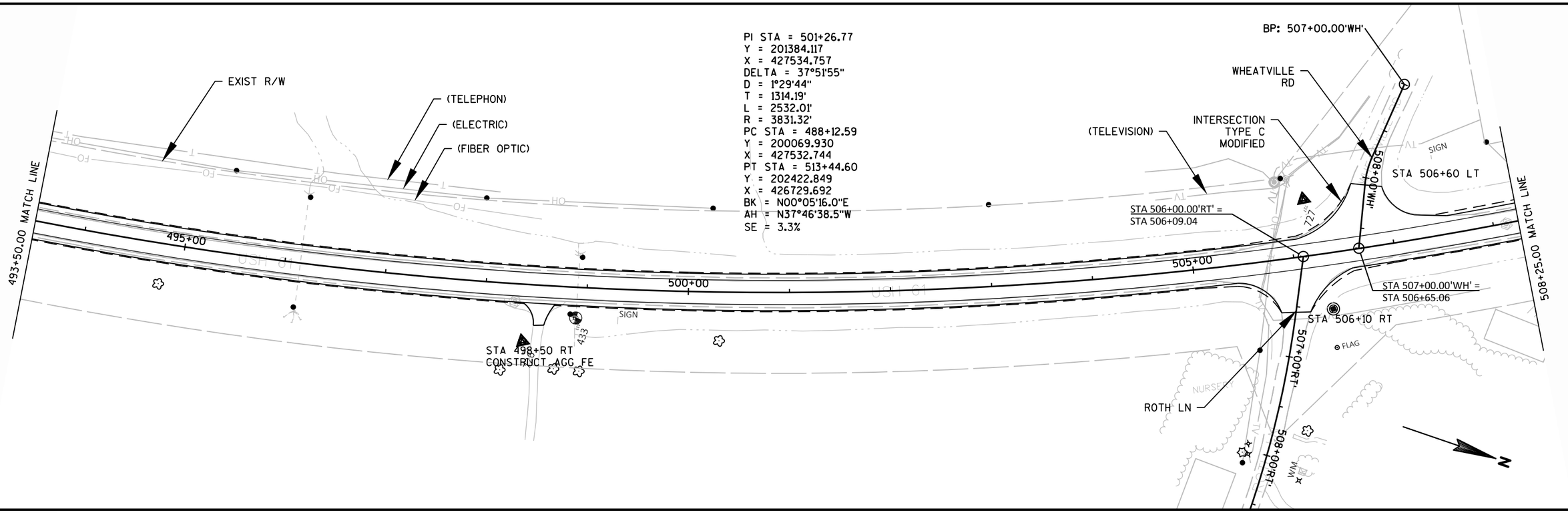


5

5



PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 99	E

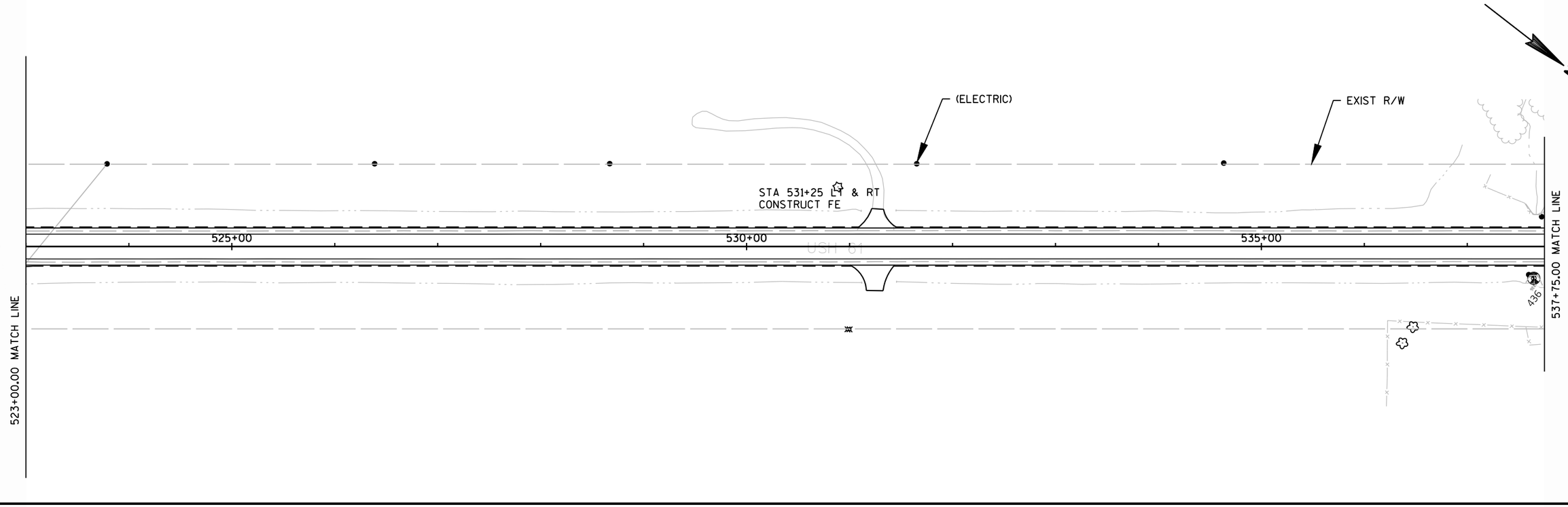


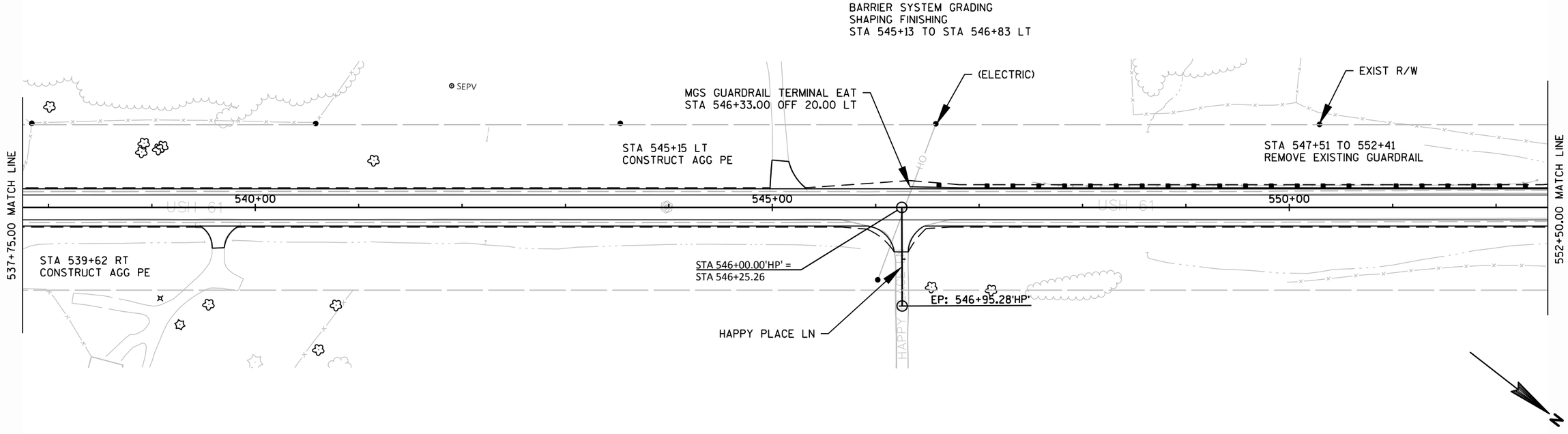
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 100	E

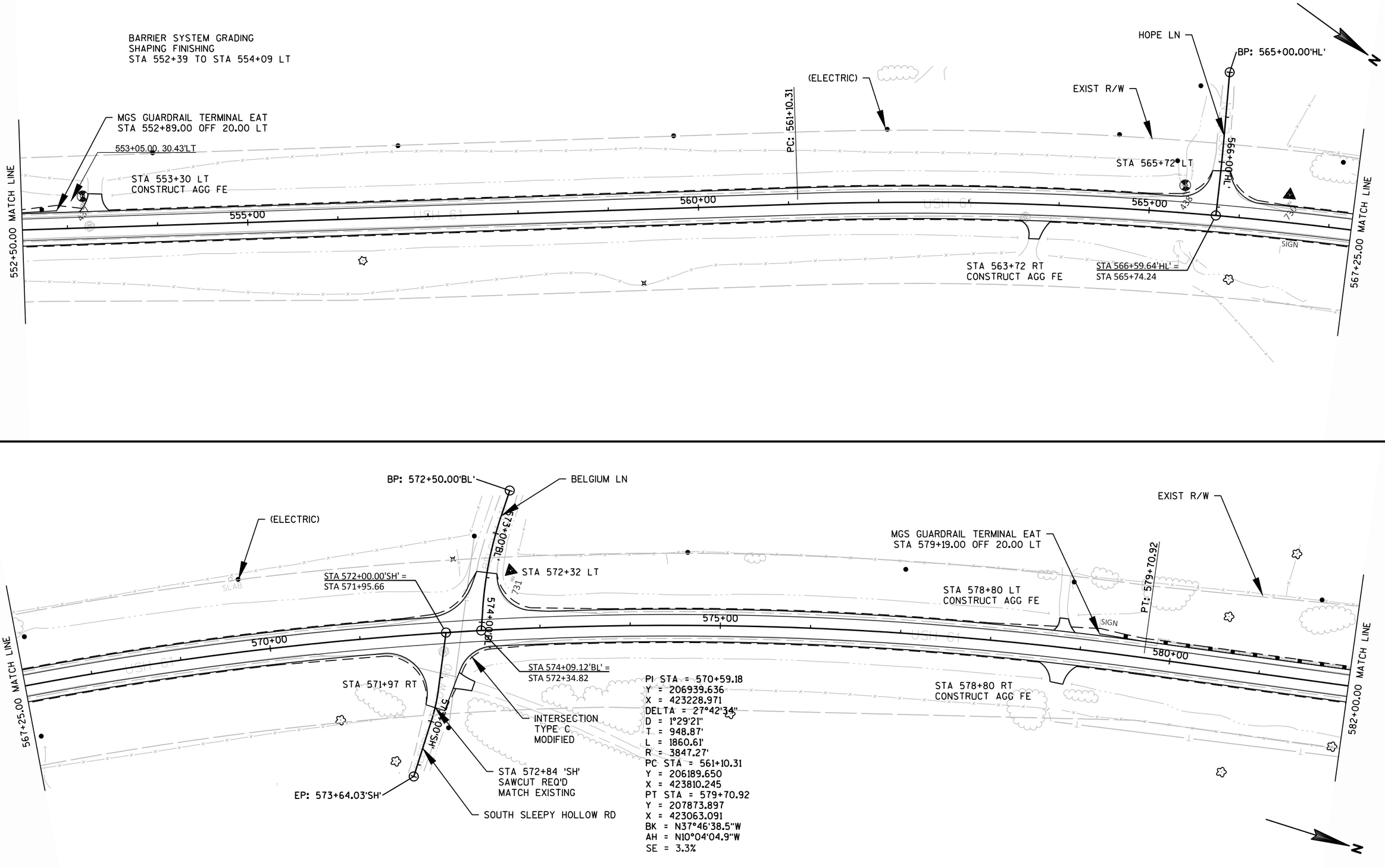
FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\050201-PN.DWG
LAYOUT NAME - 050201-PN - 0502(35)_PN

PLOT DATE : 2/1/2017 11:38 AM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44


523+00.00 MATCH LINE
525+00
530+00
535+00
537+75.00 MATCH LINE
(ELECTRIC)
EXIST R/W
STA 531+25 LT & RT
CONSTRUCT FE
USH 61
436


BARRIER SYSTEM GRADING
SHAPING FINISHING
STA 545+13 TO STA 546+83 LT
SEPV
MGS GUARDRAIL TERMINAL EAT
STA 546+33.00 OFF 20.00 LT
(ELECTRIC)
EXIST R/W
STA 545+15 LT
CONSTRUCT AGG PE
STA 547+51 TO 552+41
REMOVE EXISTING GUARDRAIL
537+75.00 MATCH LINE
540+00
545+00
550+00
552+50.00 MATCH LINE
USH 61
STA 539+62 RT
CONSTRUCT AGG PE
STA 546+00.00'HP' =
STA 546+25.26
EP: 546+95.28'HP'
HAPPY PLACE LN
HAPPY

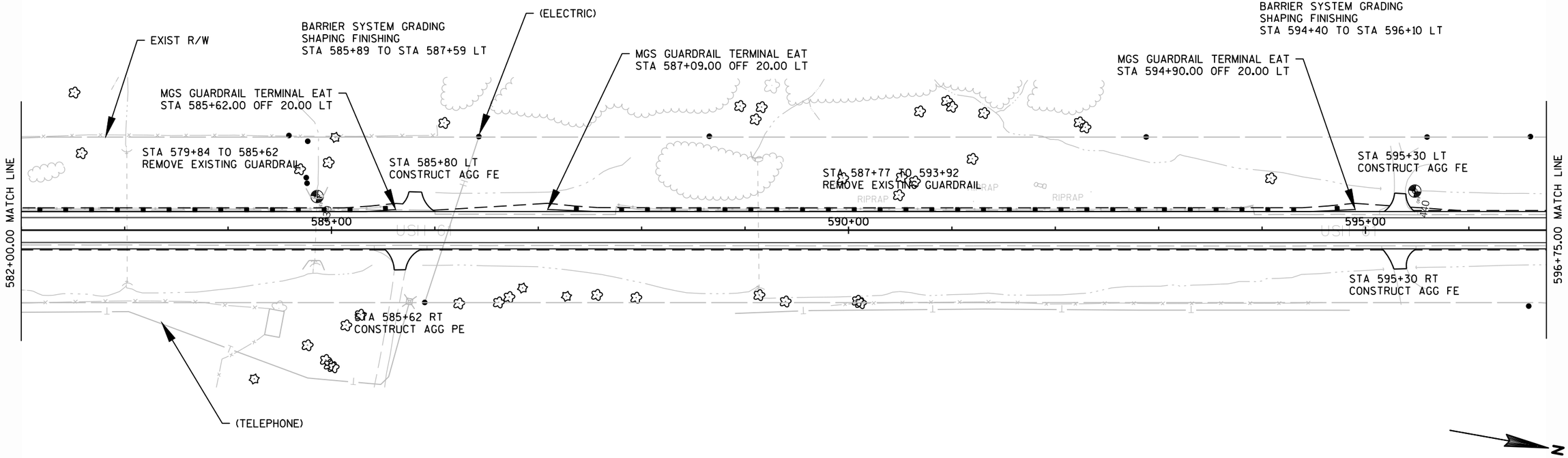


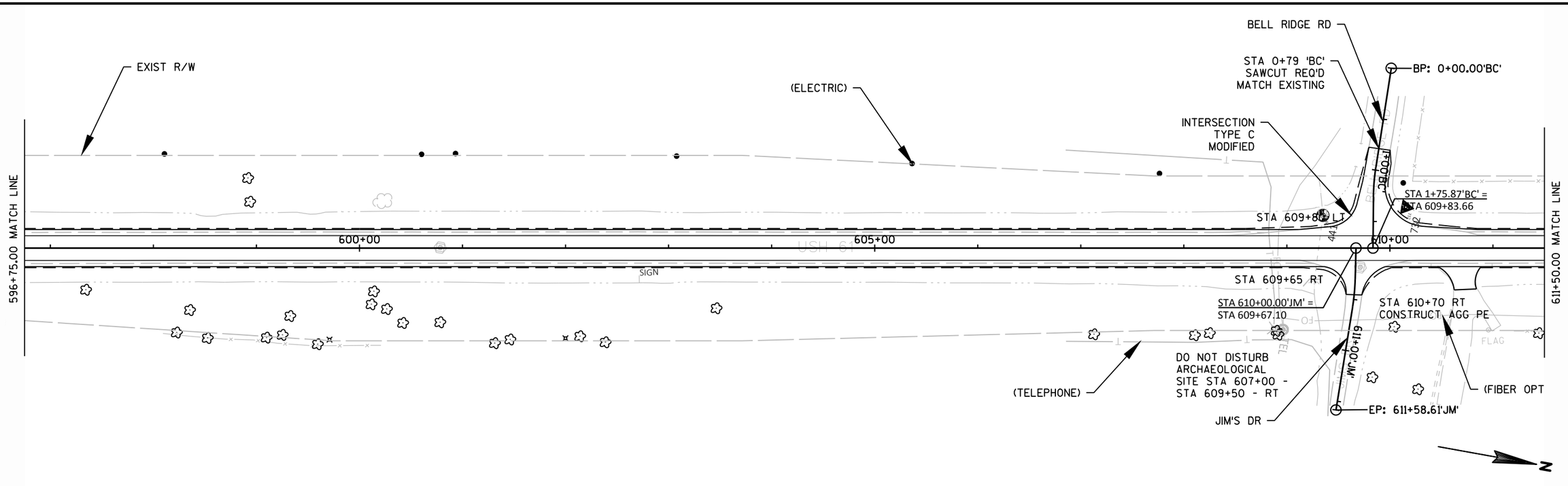
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 102	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\050201-PN.DWG
LAYOUT NAME - 050201-PN - 0502 (39)_PN

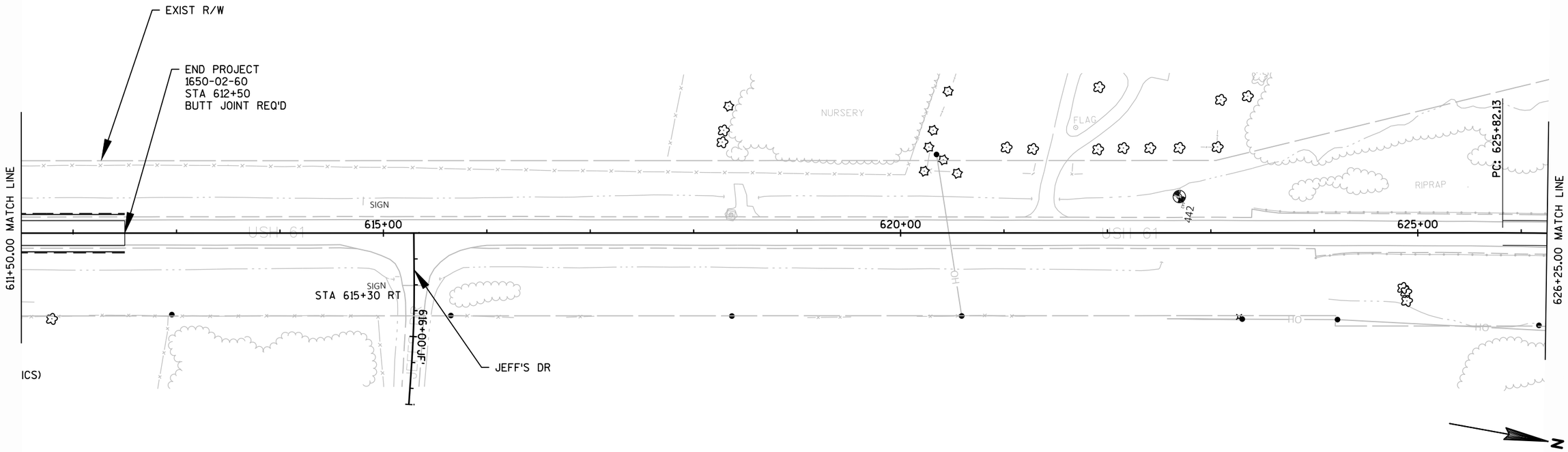
PLOT DATE : 2/1/2017 11:39 AM PLOT BY : PETERSON, SHANE J PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44





PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 103	E

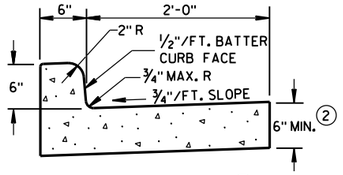


PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PLAN: USH 61	SHEET 104	E

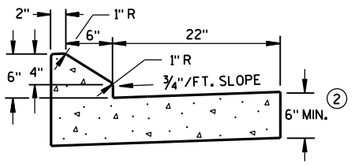
Standard Detail Drawing List

08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
09A01-13B	AT-GRADE SIDE ROAD INTERSECTION, TYPE "A1" & "A2"
13A10-01A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01B	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01D	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C06-08	SIGNING & MARKING FOR TWO LANE BRIDGES
15C07-13B	PAVEMENT MARKING WORDS
15C07-13C	PAVEMENT MARKING ARROWS
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C08-17B	PAVEMENT MARKING (TURN LANES)
15C08-17C	PAVEMENT MARKING (ISLANDS)
15C12-05	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-03	MEDIAN ISLAND MARKING
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-04B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C27-01	DOUBLE ARROW WARNING SIGN PLACEMENT
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-01A	PAVEMENT MARKING (INTERSECTIONS)
15C35-01B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-01C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D12-06A	TRAFFIC CONTROL, LANE CLOSURE

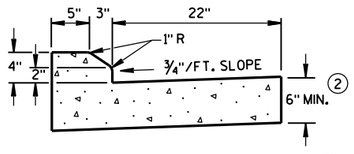
6



TYPES A & D ①

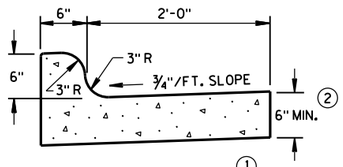


6" SLOPED CURB TYPES G & J ①

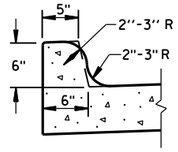


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

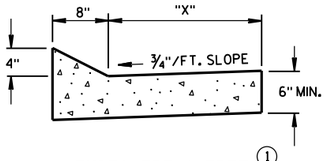


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

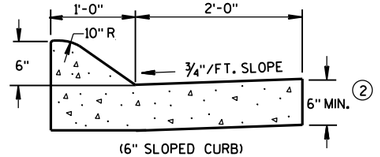
CONCRETE CURB & GUTTER 30"



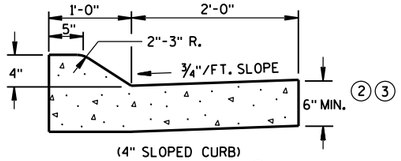
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

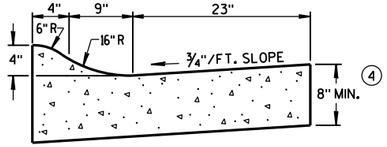


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

GENERAL NOTES

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

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

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

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

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

① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

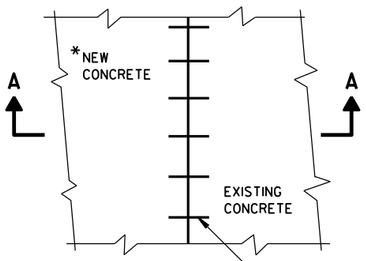
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

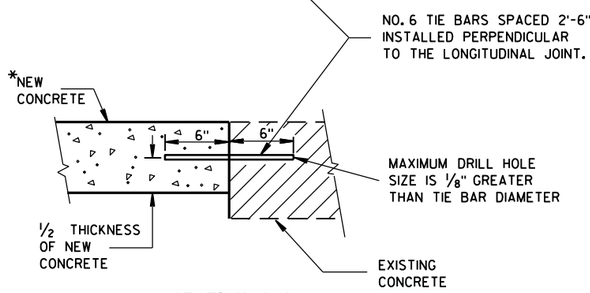
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



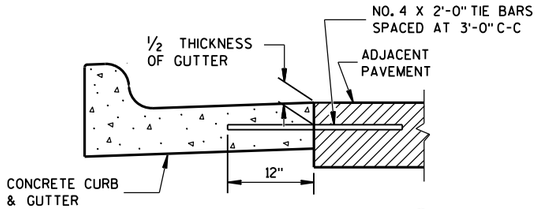
PLAN VIEW

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

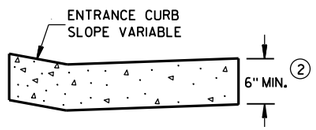


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

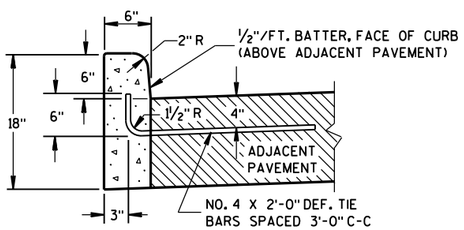


TYPICAL TIE BAR LOCATION ①

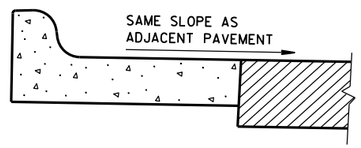


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

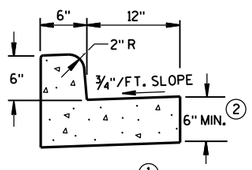


① TYPES A & D



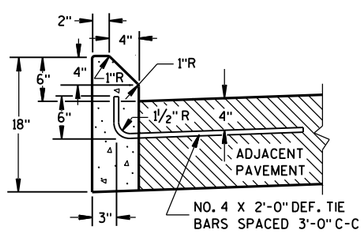
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



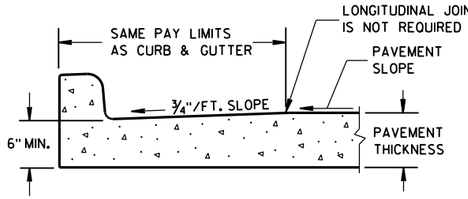
① TYPES A & D

CONCRETE CURB & GUTTER 18"

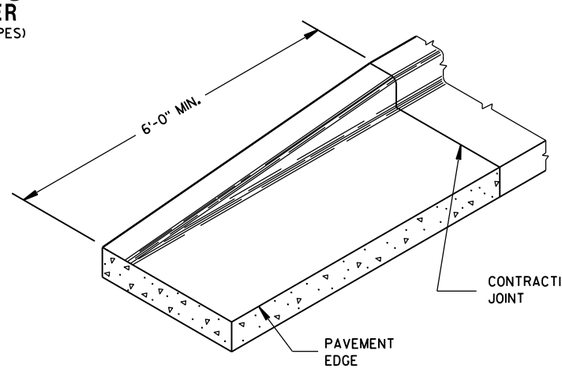


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

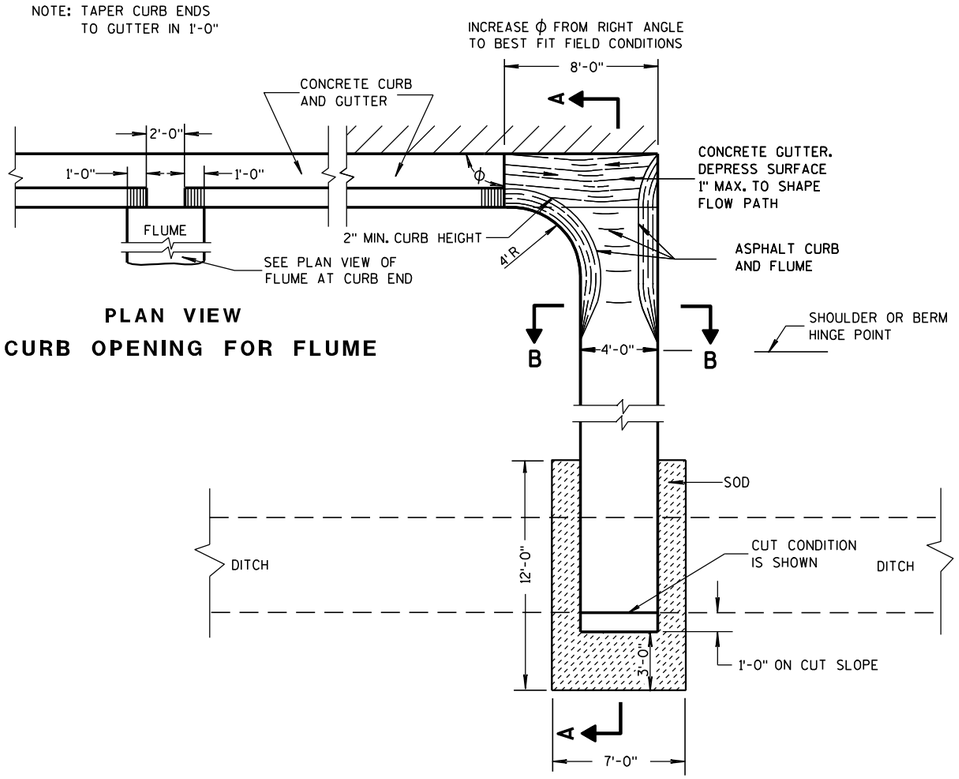
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

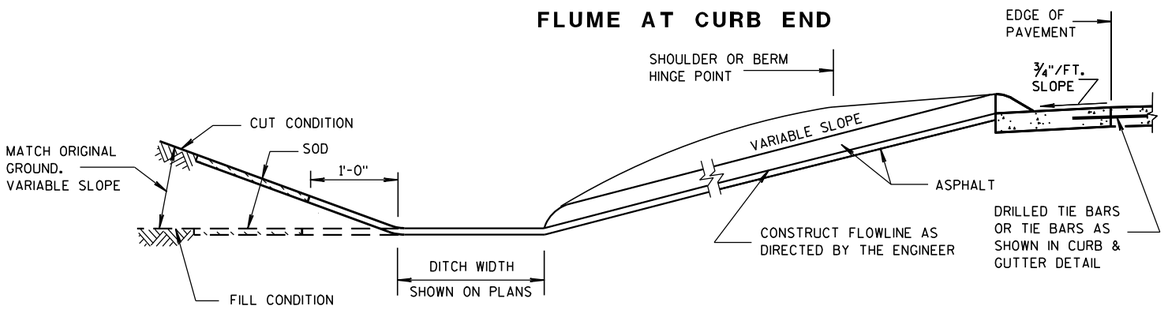
S.D.D. 8 D 1-19

ASPHALTIC FLUME

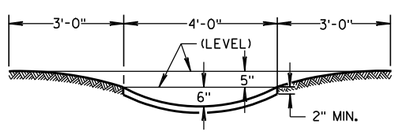


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

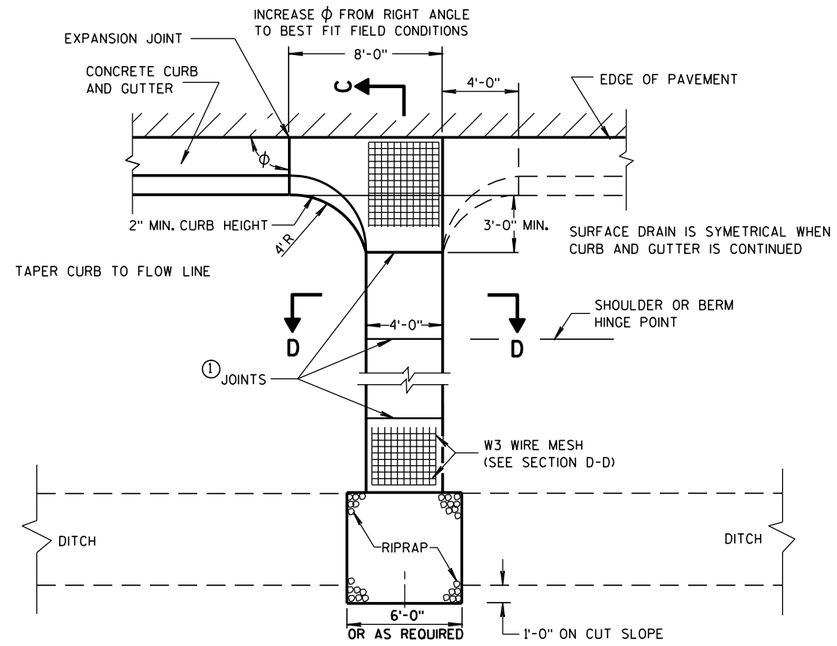
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

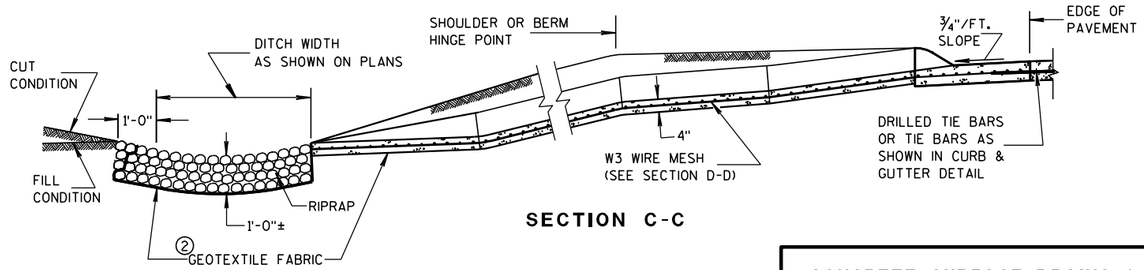
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

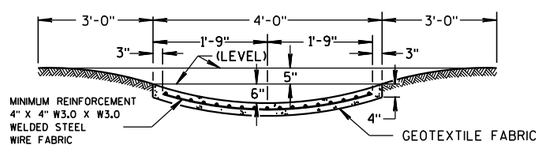
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

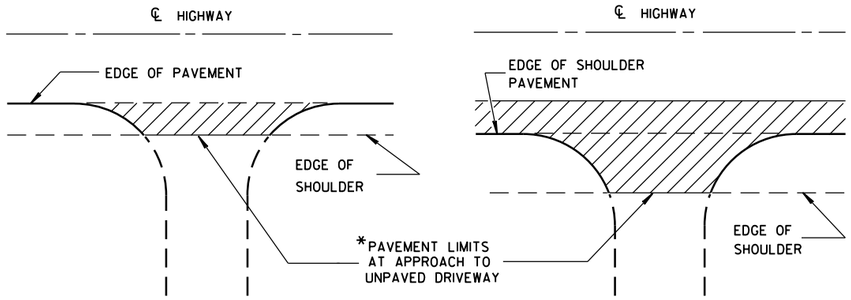
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
MENT
FHWA

6

S.D.D. 8 D 4-5

6

S.D.D. 8 D 4-5

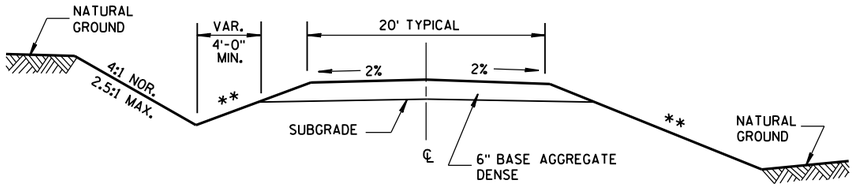


*WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB & GUTTER OR SIDEWALK)



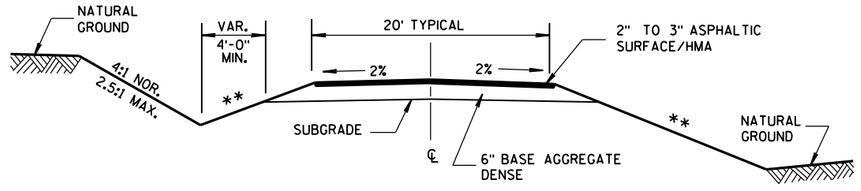
IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

** SLOPE CAN VARY WITH SPEED. SEE 11-45-2.6.2.

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥35 TO <60	6:1
≥60	10:1

TYPICAL DRIVEWAY PROFILES



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

DRIVEWAYS WITHOUT CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

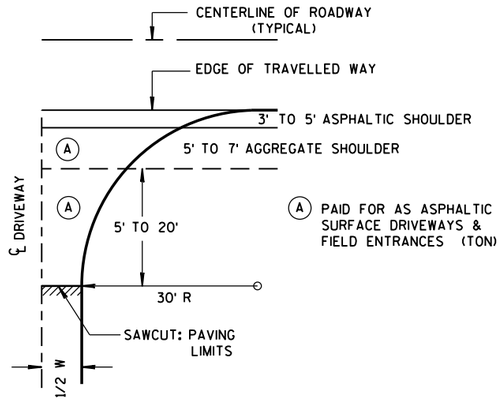
APPROVED
December, 2016 /S/ Rodney Taylor
DATE ROADWAY STANDARDS UNIT SUPERV
FHWA

6

S.D.D. 8 D 21-1

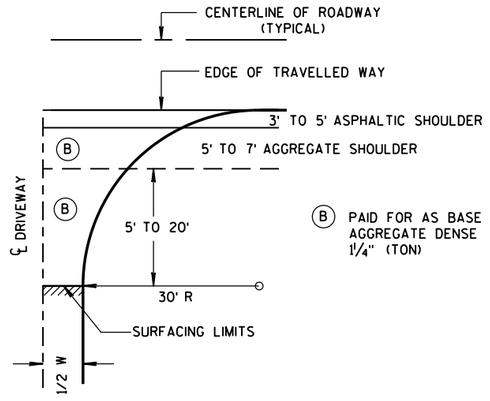
6

S.D.D. 8 D 21-1



W MIN. = 16'
W MAX. = 24'

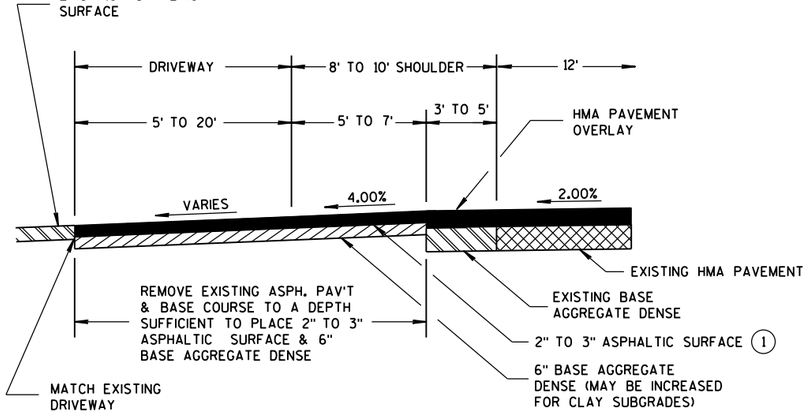
PLAN VIEW
HALF SECTION



PLAN VIEW
HALF SECTION

GENERAL NOTES

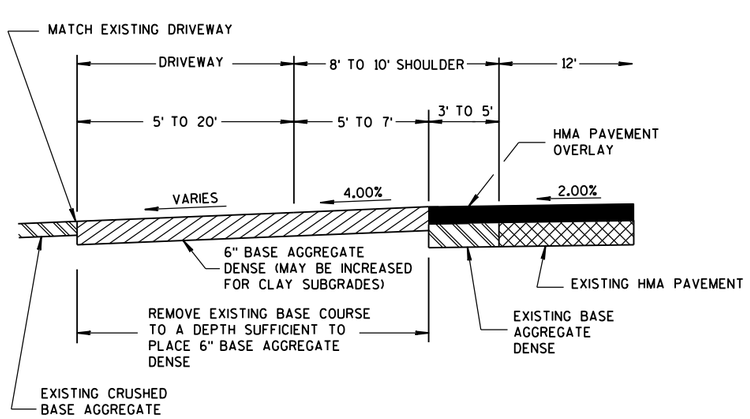
(1) DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.



PROFILE VIEW

RURAL ENTRANCE WITH ASPHALTIC SURFACE

RESURFACING PROJECTS



PROFILE VIEW

RURAL ENTRANCE WITH AGGREGATE SURFACE

6" BASE AGGREGATE DENSE
RESURFACING PROJECTS

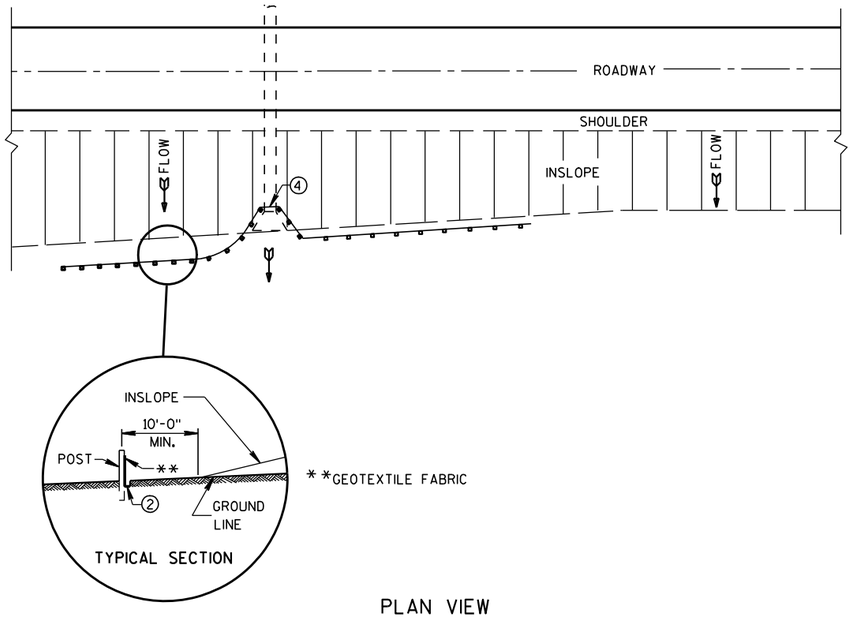
DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA — UNIT SUPERV

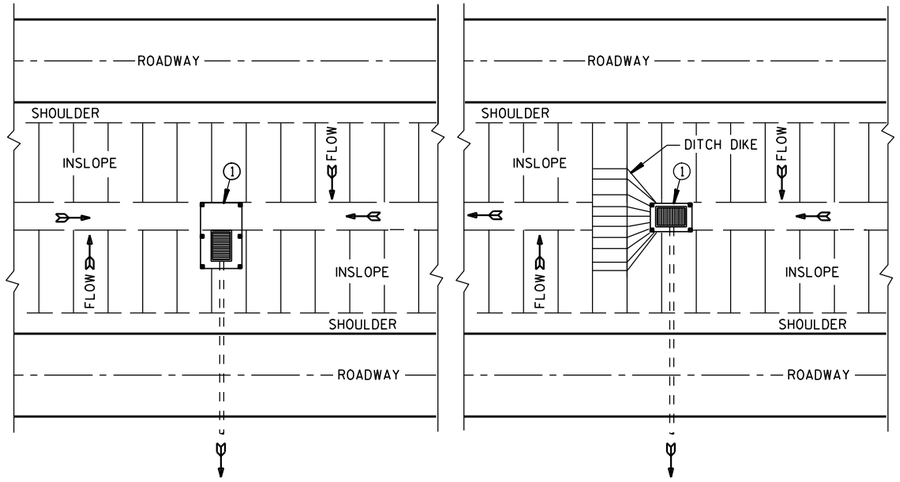
6

S.D.D. 8 D 22-1



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

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

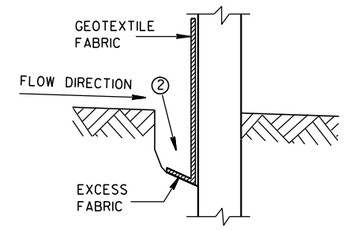
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

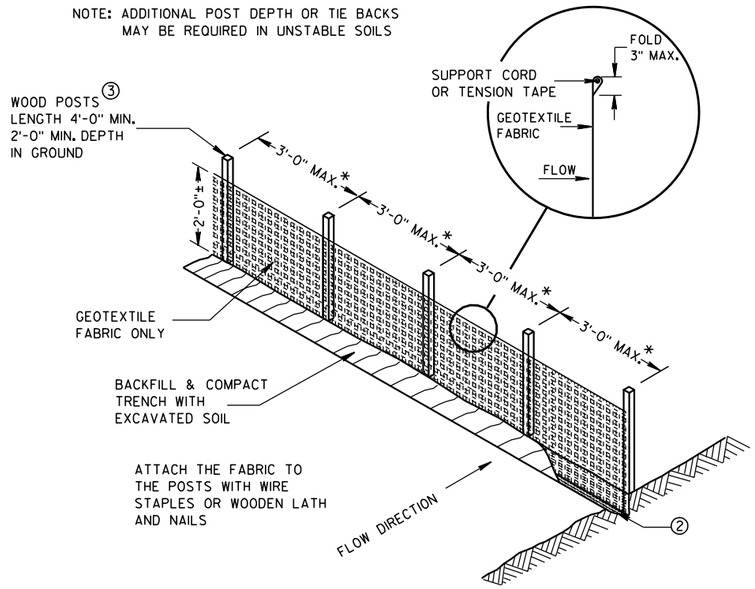
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

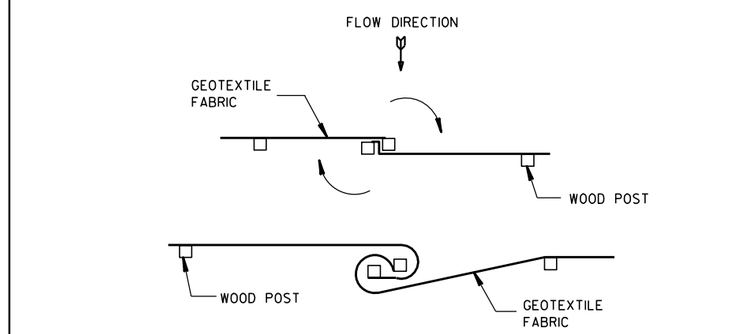
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



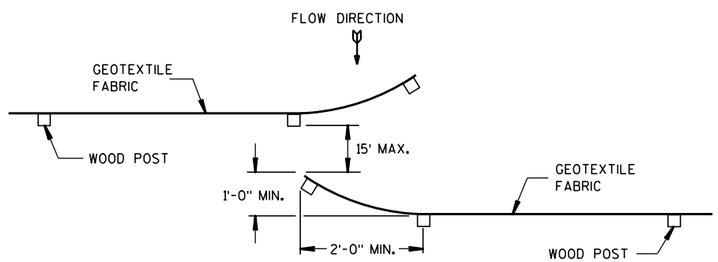
TRENCH DETAIL



SILT FENCE

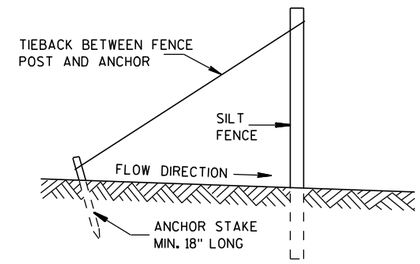


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

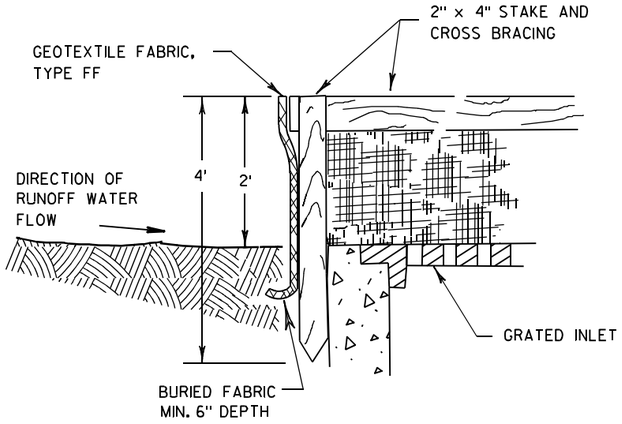
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

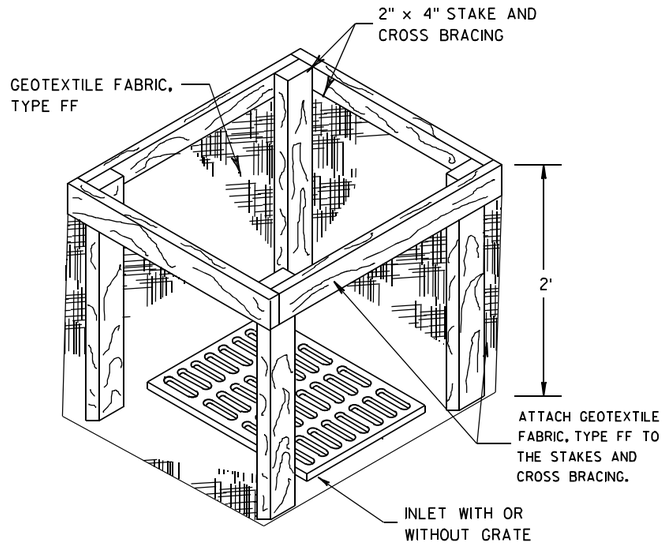
6

S.D.D. 8 E 9-6

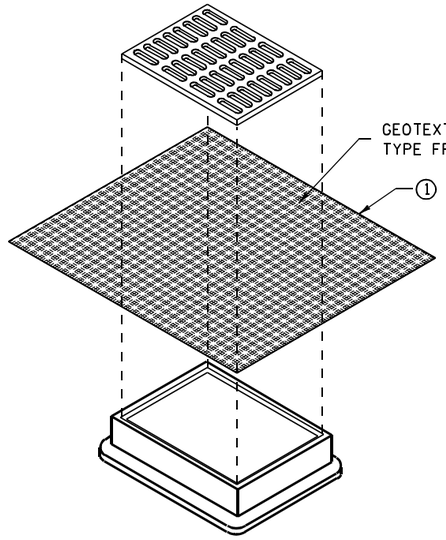
6

S.D.D. 8 E 9-6



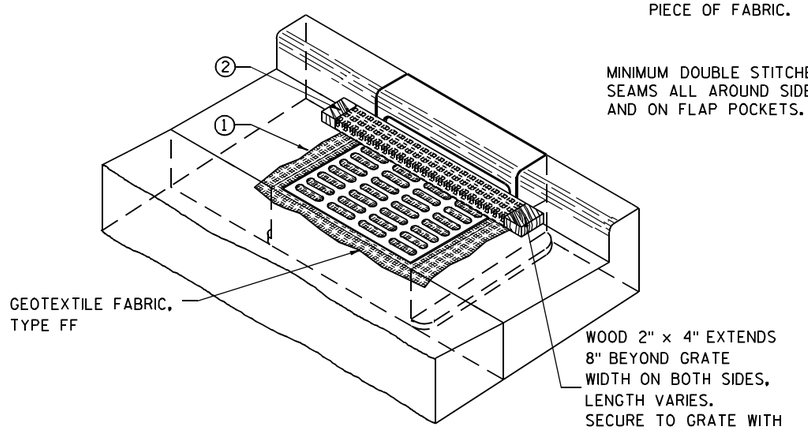


INLET PROTECTION, TYPE A

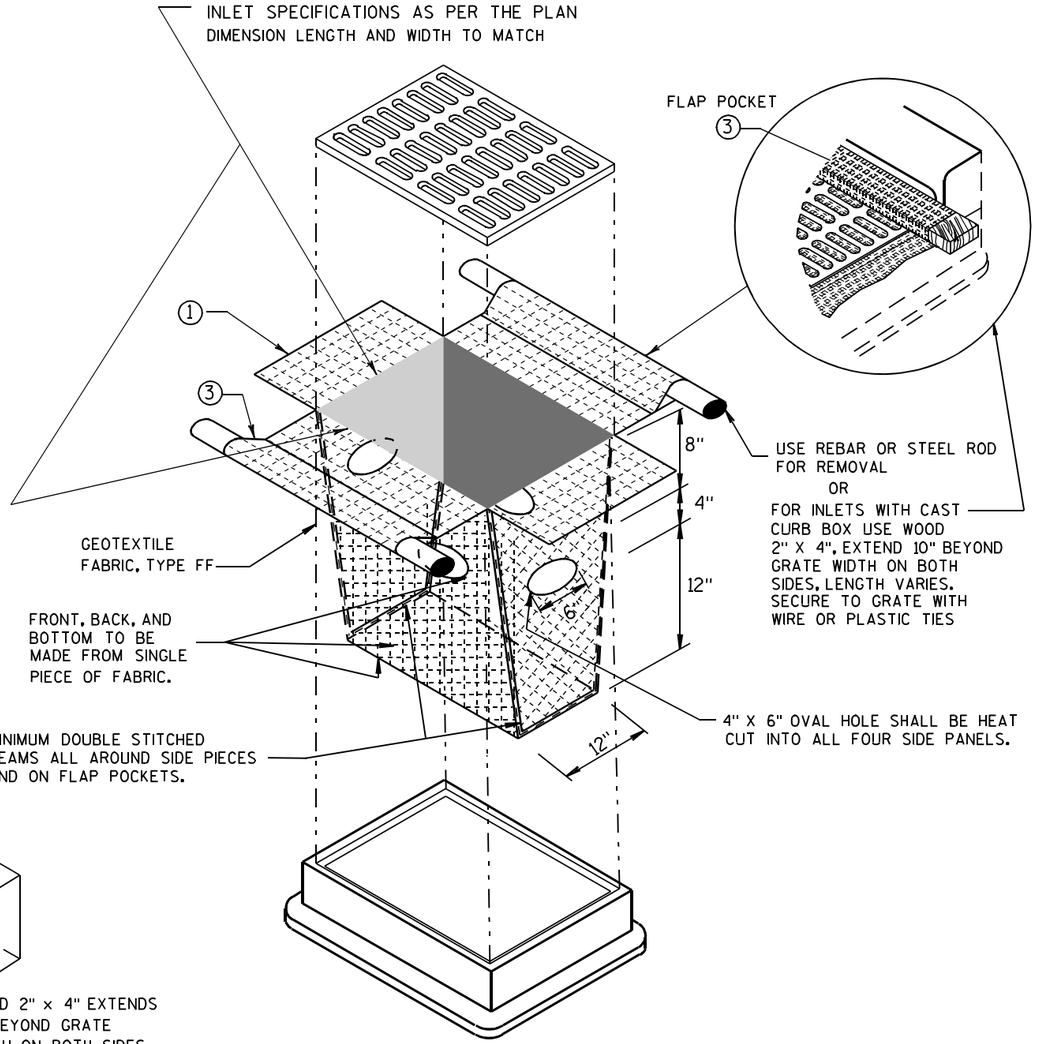


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

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

GENERAL NOTES

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

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

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

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

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

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

TYPE D

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

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

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

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 8 E 10-2

METAL APRON ENDWALLS

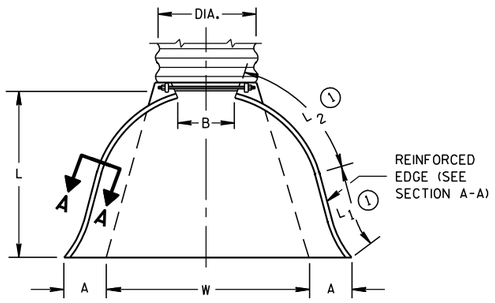
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

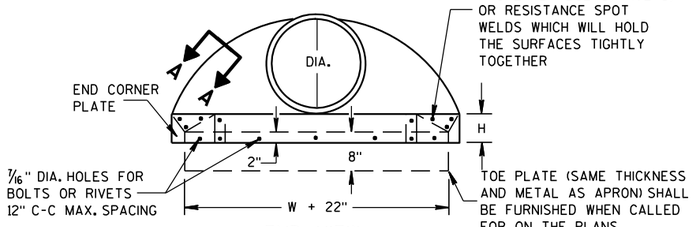
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

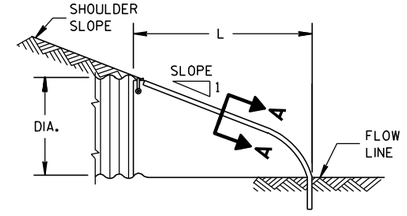
* MINIMUM
** MAXIMUM



PLAN VIEW

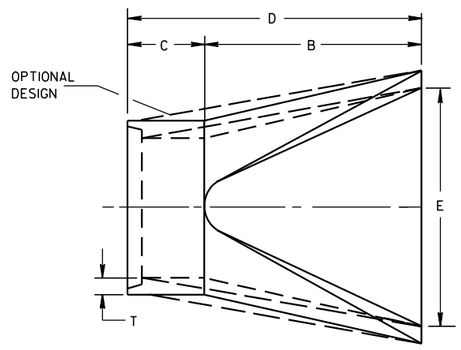


END VIEW

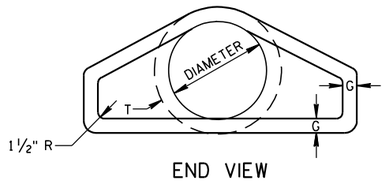


SIDE ELEVATION

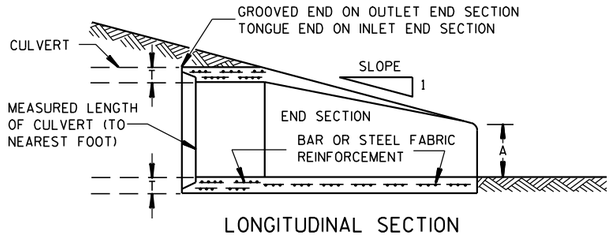
METAL ENDWALLS



PLAN

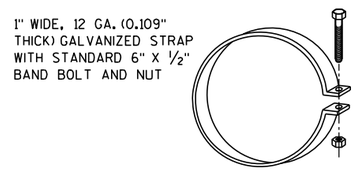


END VIEW



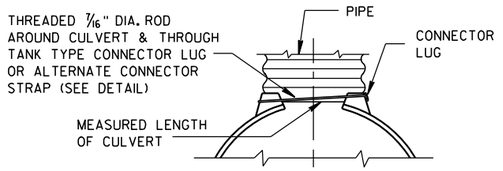
LONGITUDINAL SECTION

CONCRETE ENDWALLS

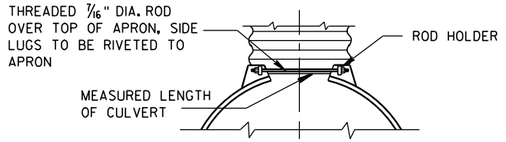


ALTERNATE FOR TYPE 1 CONNECTION

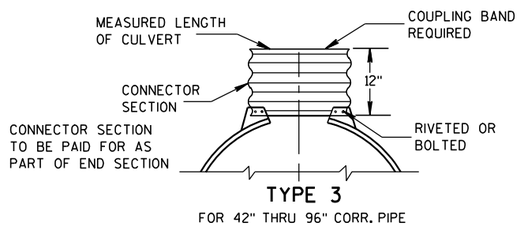
END SECTION CONNECTOR STRAP



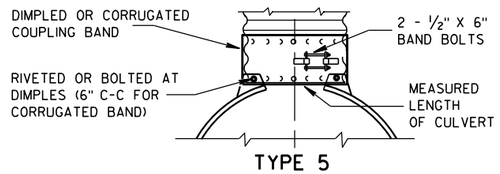
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

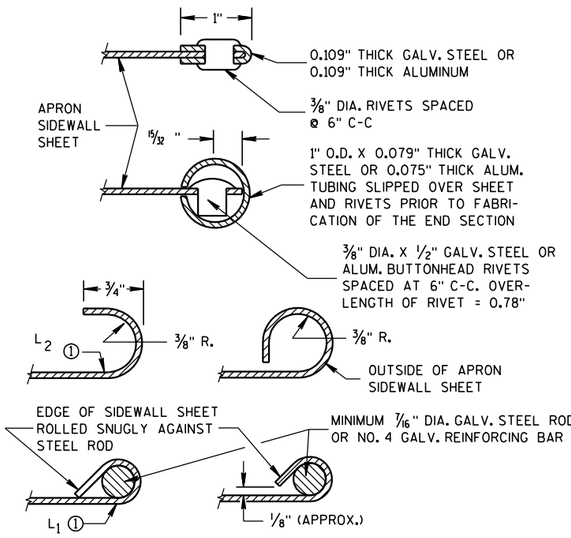
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

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

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

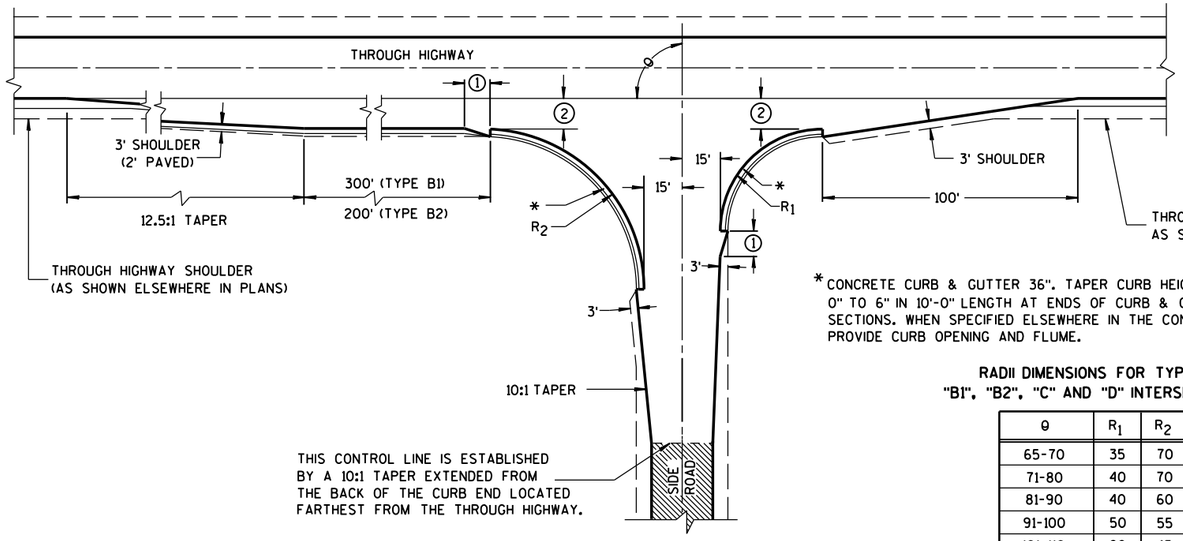
APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 F 1-11

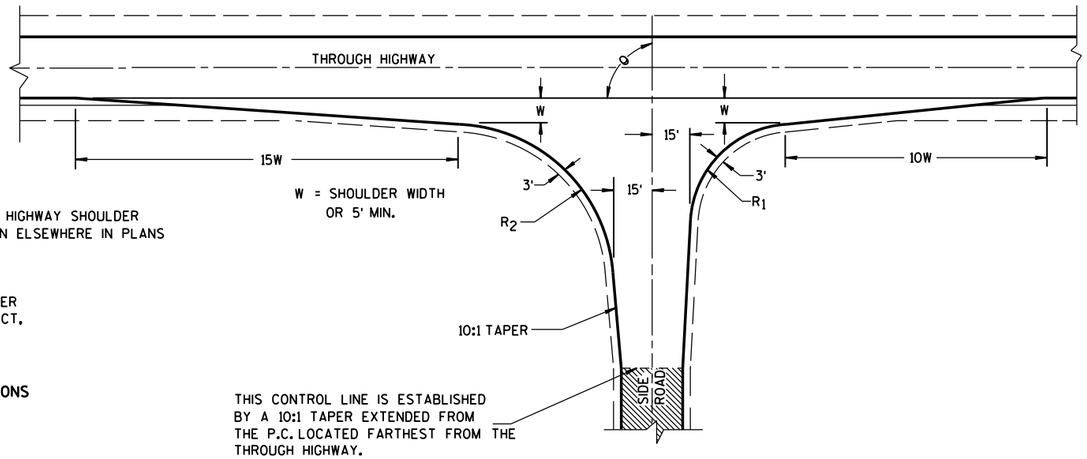


TYPE "B1" AND "B2"

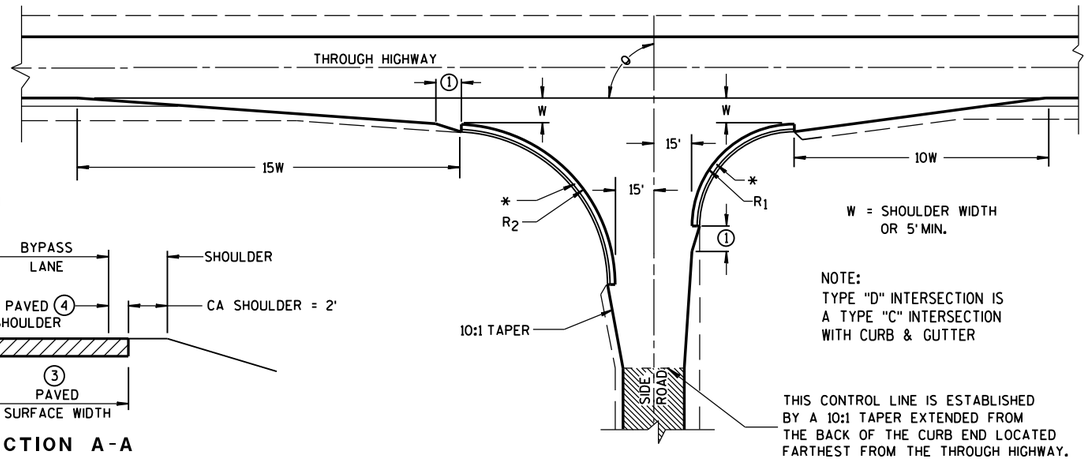
*CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

RADII DIMENSIONS FOR TYPES "B1", "B2", "C" AND "D" INTERSECTIONS

θ	R_1	R_2
65-70	35	70
71-80	40	70
81-90	40	60
91-100	50	55
101-110	60	45



TYPE "C"



TYPE "D"

GENERAL NOTES

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

SIDE ROAD SURFACING NOTE

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

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

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

EXISTING PAVED SURFACE

BYPASS LANE

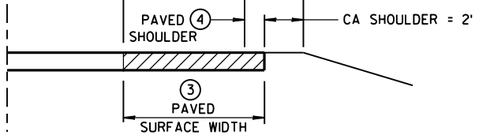
(1) 10-FT TYPICAL.

(2) 12-FT** PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLAN.

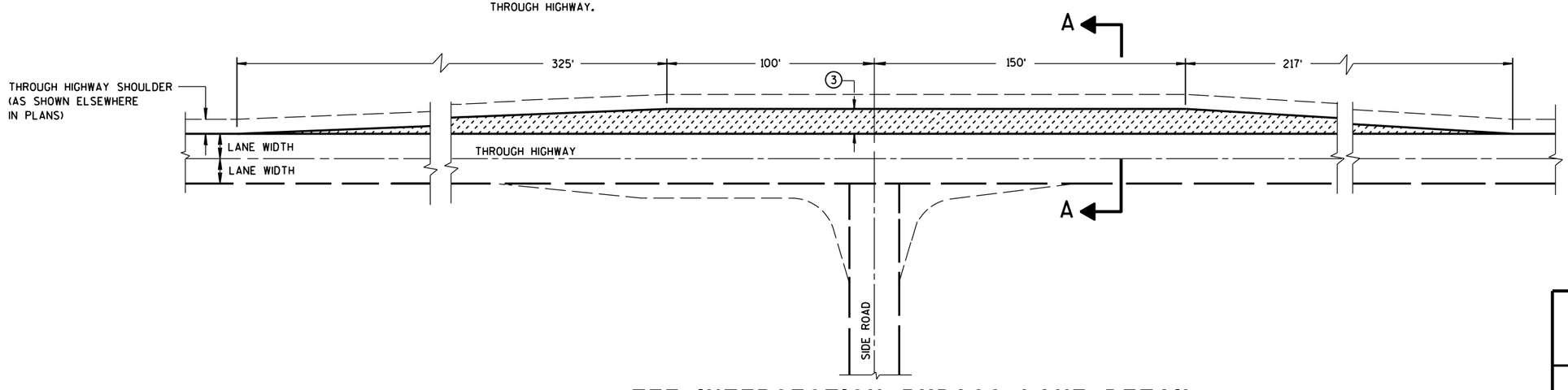
**10-FT MAY BE USED ON TYPE B2 ON RESURFACING PROJECTS IF SPECIFIED IN THE CONTRACT.

(3) BYPASS LANE PAVED SURFACE WIDTH OUTSIDE OF TRAVEL LANE
-ASPHALT = 12-FT PLUS PAVED SHOULDER WIDTH.
-PC CPNCRETE = 13-FT PLUS PAVED SHOULDER WIDTH.

(4) BYPASS LANE PAVED SHOULDER WIDTH = THE GREATER OF 1-FT OR THE PAVED SHOULDER WIDTH OF THE THROUGH HIGHWAY.



SECTION A-A
(SHOWING BYPASS LANE AND SHOULDER)



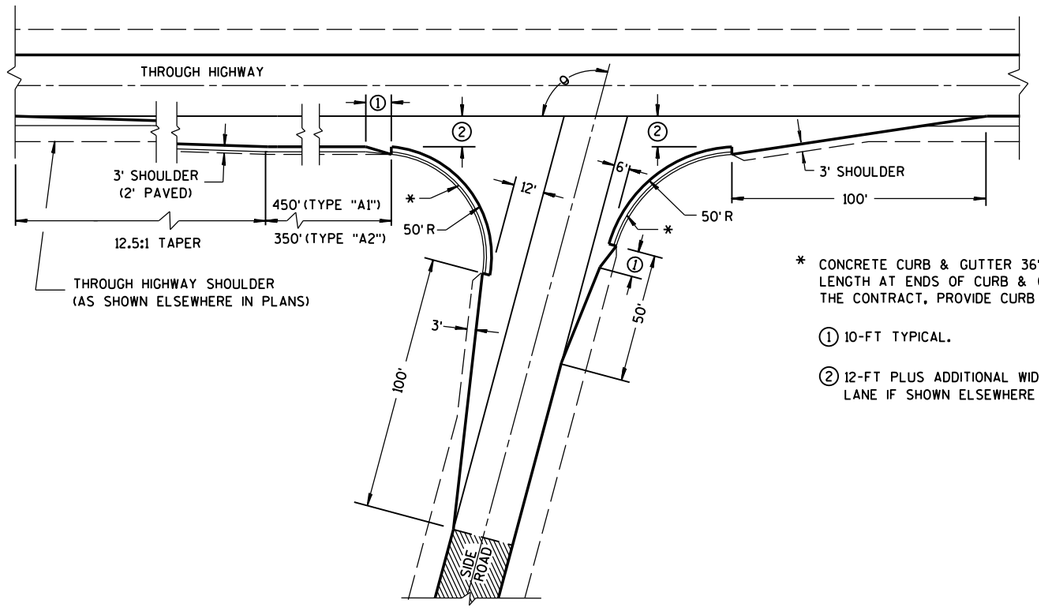
TEE INTERSECTION BYPASS LANE DETAIL

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

S.D.D. 9 A 1-13a



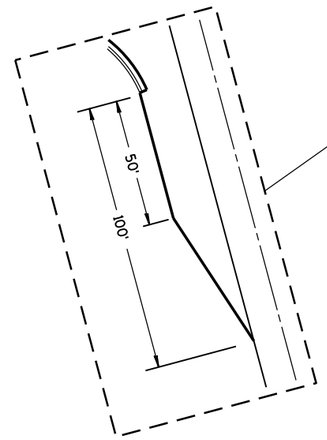
θ = MORE THAN 80°

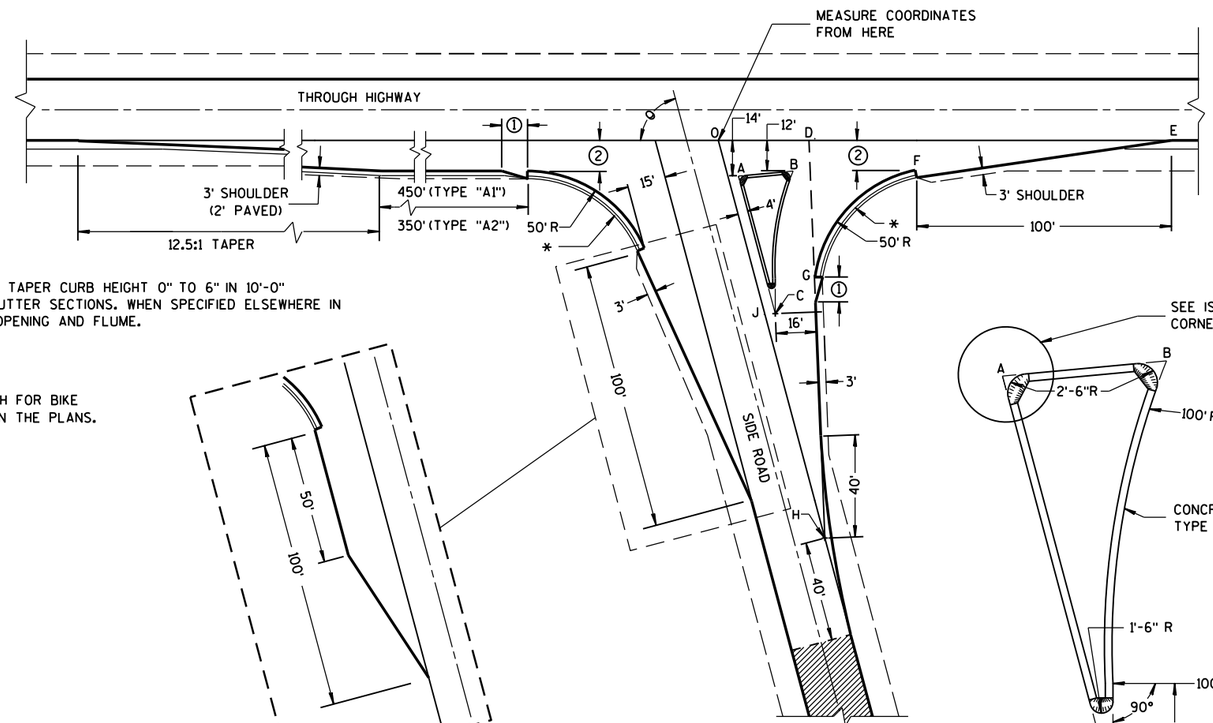
* CONCRETE CURB & GUTTER 36". TAPER CURB HEIGHT 0" TO 6" IN 10'-0" LENGTH AT ENDS OF CURB & GUTTER SECTIONS. WHEN SPECIFIED ELSEWHERE IN THE CONTRACT, PROVIDE CURB OPENING AND FLUME.

① 10-FT TYPICAL.

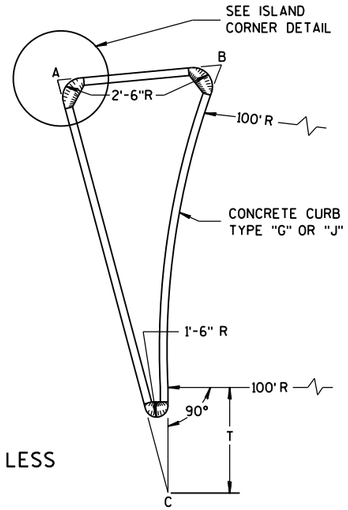
② 12-FT PLUS ADDITIONAL WIDTH FOR BIKE LANE IF SHOWN ELSEWHERE IN THE PLANS.

EXISTING PAVED SURFACE





θ = ACUTE ANGLES 80° OR LESS

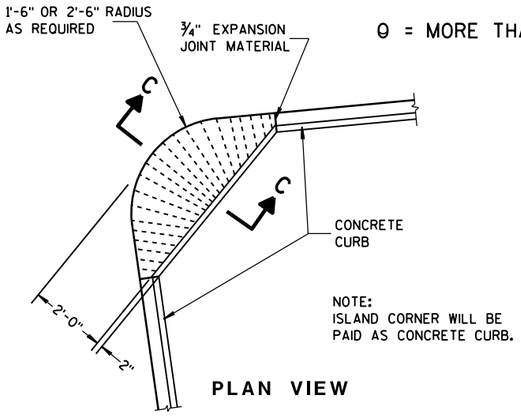


SIDE ROAD WIDENING AND TAPER REQUIRED WHERE THE THROUGH HIGHWAY CARRIES TWO-WAY TRAFFIC
θ = ACUTE ANGLES 70° OR LESS

TABLE OF DIMENSIONS FOR
VARIABLE SIDE ROAD INTERSECTION ANGLES
(INTERPOLATE VALUES FOR ANGLES NOT SHOWN)

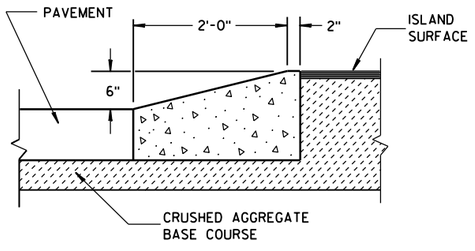
ANGLE θ DEGREES	COORDINATES IN FEET (MEASURED FROM POINT "O") X / Y								LENGTH IN FEET				
	A	B	C	D	E	F	G	H	AB	AC	T	OJ	OH
60	12.7 / -14.0	44.9 / -12.0	46.4 / -72.4	41.9 / 0.0	205.0 / 0.0	104.6 / -12.0	64.0 / -75.5	85.0 / -147.1	32.3	67.4	4.9	85.9	169.9
65	10.9 / -14.0	39.0 / -12.0	37.8 / -71.6	39.4 / 0.0	196.1 / 0.0	95.7 / -12.0	54.1 / -71.5	70.5 / -151.3	28.2	63.6	8.5	80.9	166.9
70	9.4 / -14.0	33.9 / -12.0	29.8 / -70.1	37.4 / 0.0	188.3 / 0.0	87.8 / -12.0	45.6 / -67.5	56.1 / -154.2	24.6	59.7	11.5	76.1	164.1
75	7.9 / -14.0	29.3 / -12.0	22.3 / -67.9	35.7 / 0.0	181.2 / 0.0	80.7 / -12.0	38.2 / -63.4	41.8 / -155.9	21.5	55.8	13.8	71.4	161.4
80	6.5 / -14.0	25.4 / -12.0	15.6 / -65.2	34.4 / 0.0	174.8 / 0.0	74.4 / -12.0	31.8 / -59.3	27.6 / -156.5	18.9	52.0	15.6	66.9	158.9

TYPE "A1" & "A2" SIDE ROAD INTERSECTION DETAILS



NOTE:
ISLAND CORNER WILL BE PAID AS CONCRETE CURB.

PLAN VIEW



SECTION C-C

ISLAND CORNER DETAIL

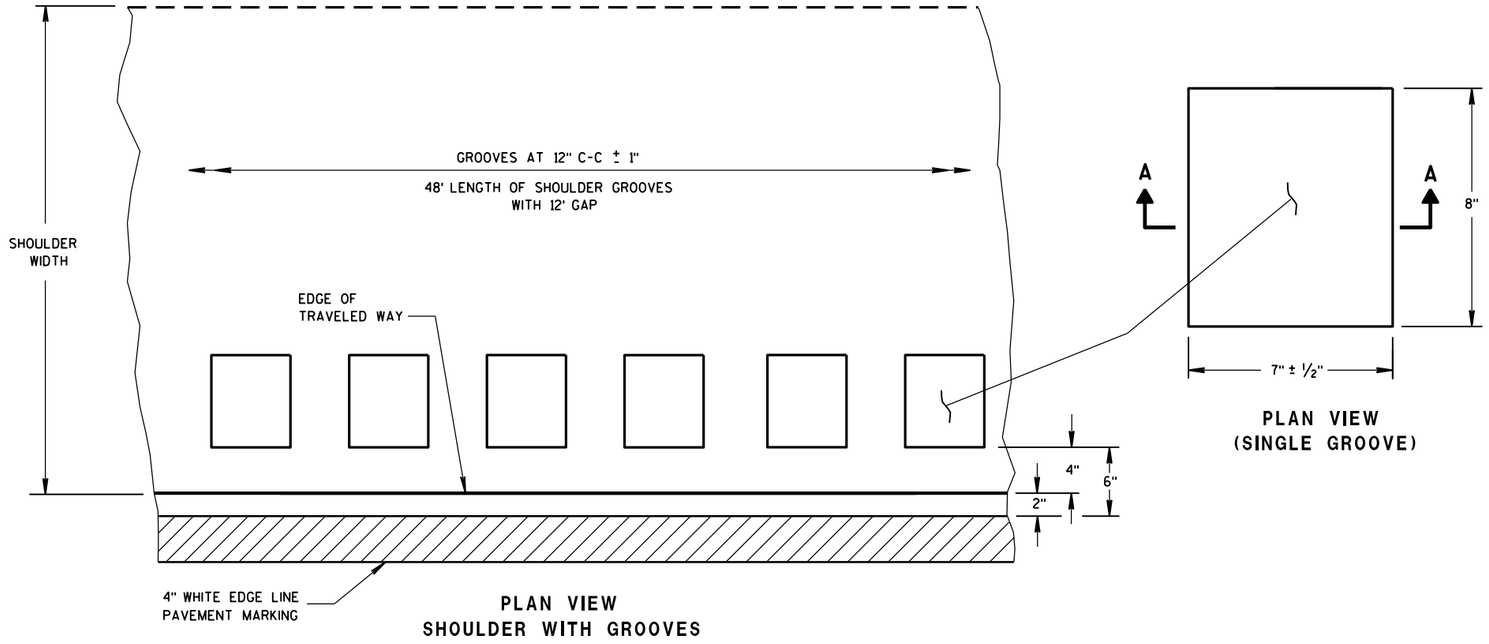
(TO BE CONSTRUCTED AT ALL ISLAND CORNERS)

AT-GRADE SIDE ROAD
INTERSECTION, TYPE "A1" & "A2"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
12/18/12 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 9 A 1-13b



PLAN VIEW
SHOULDER WITH GROOVES

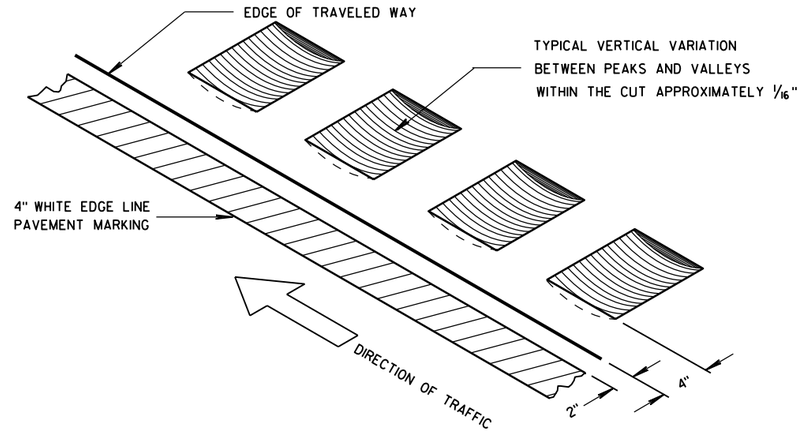
PLAN VIEW
(SINGLE GROOVE)

GENERAL NOTES

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

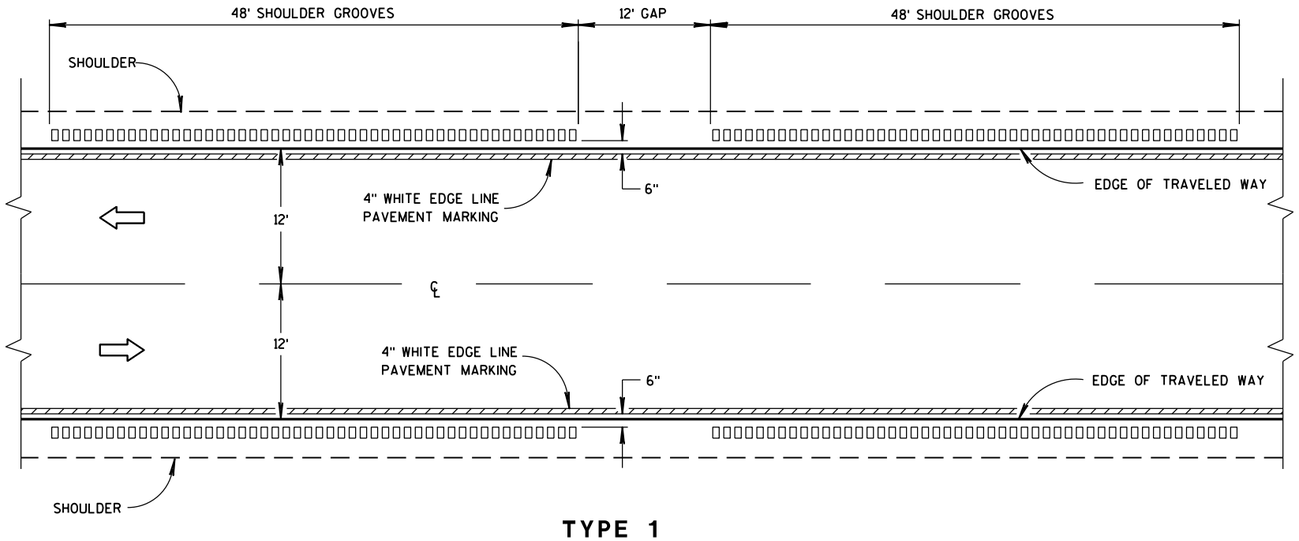
DO NOT MILL SHOULDER GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

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

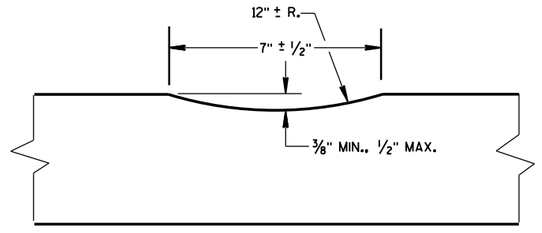


ISOMETRIC

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP



TYPE 1
2-LANE SHOULDER RUMBLE STRIP



SECTION A-A

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

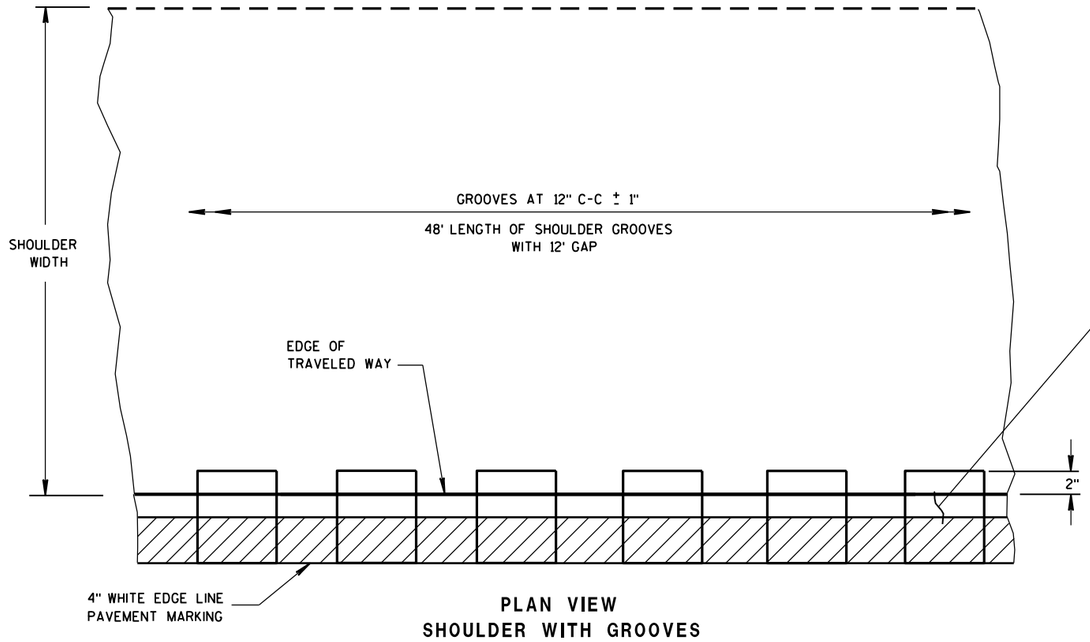
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

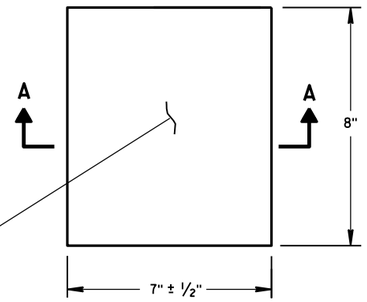
S.D.D. 13 A 10-1a

6

S.D.D. 13 A 10-1a



PLAN VIEW
SHOULDER WITH GROOVES



PLAN VIEW
(SINGLE GROOVE)

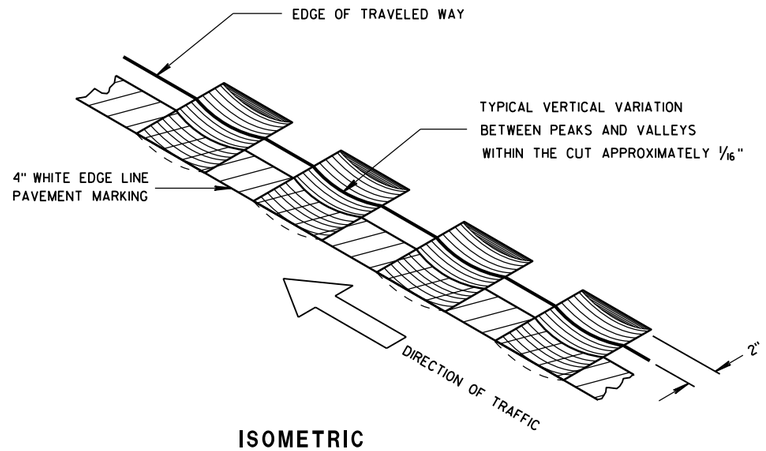
PLACEMENT DETAIL FOR TYPE 2 MILLED RUMBLE STRIP

GENERAL NOTES

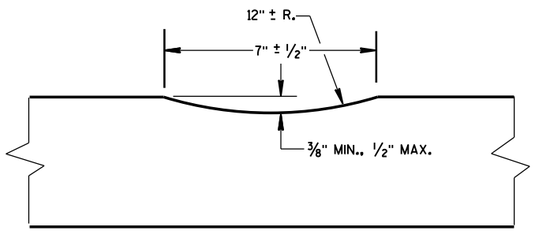
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

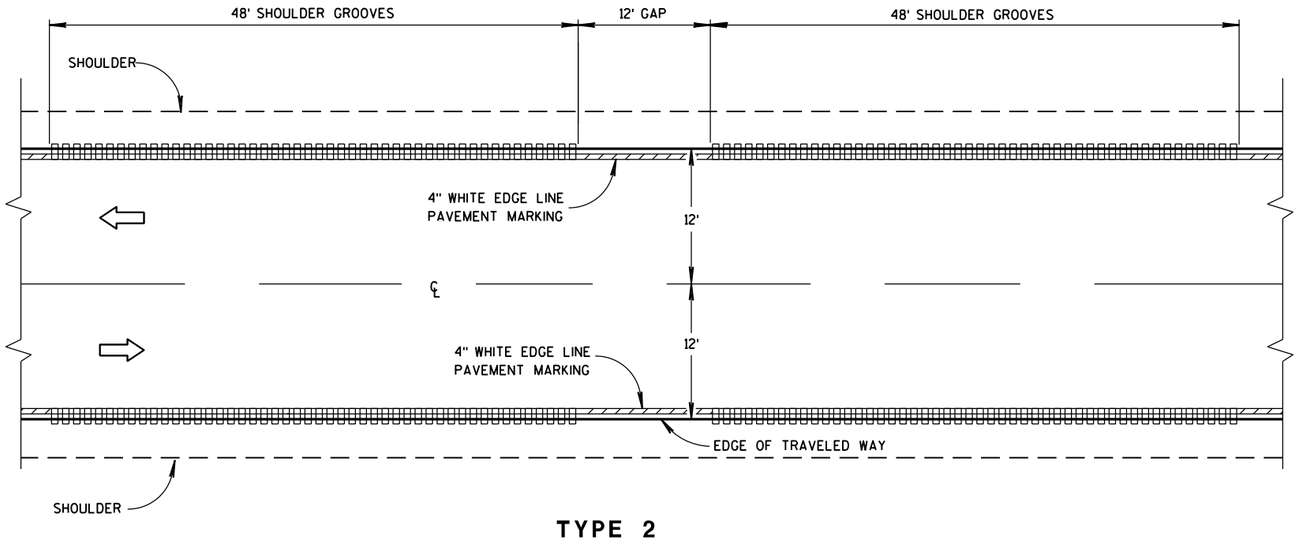
(1) SHOULDER GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



ISOMETRIC



SECTION A-A



TYPE 2
2-LANE SHOULDER RUMBLE STRIP

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

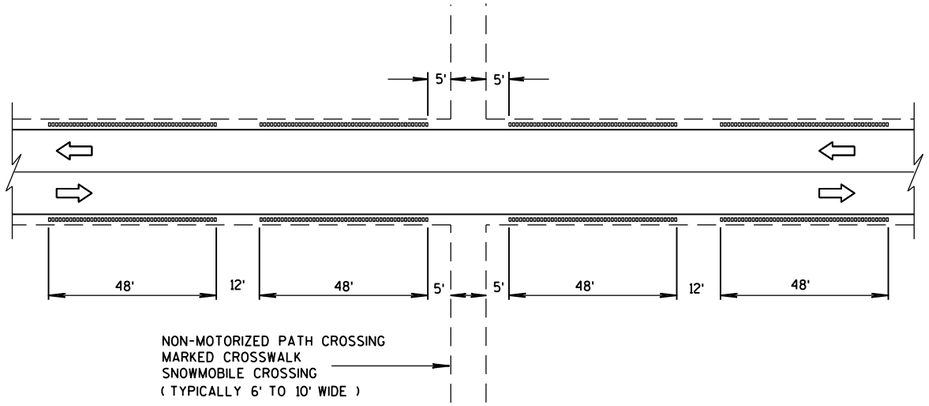
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

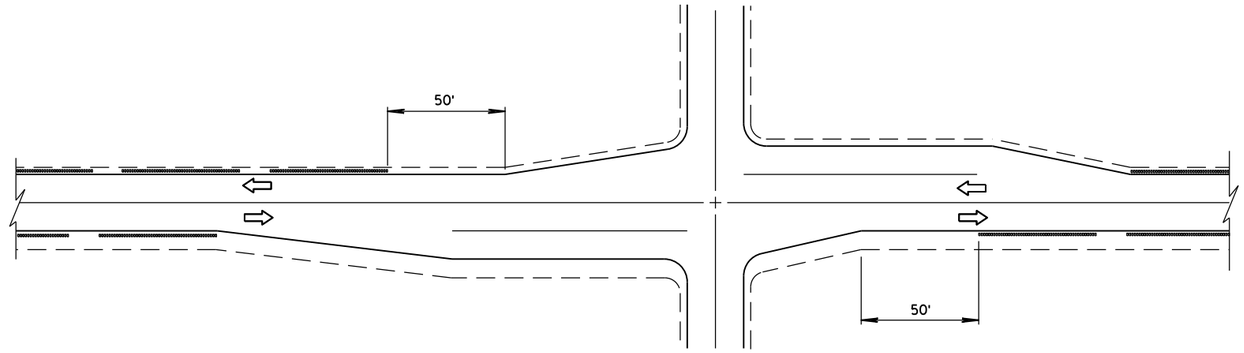
S.D.D. 13 A 10-1b

6

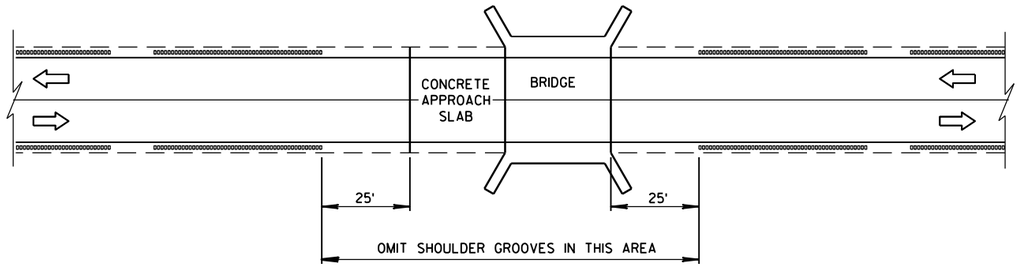
S.D.D. 13 A 10-1b



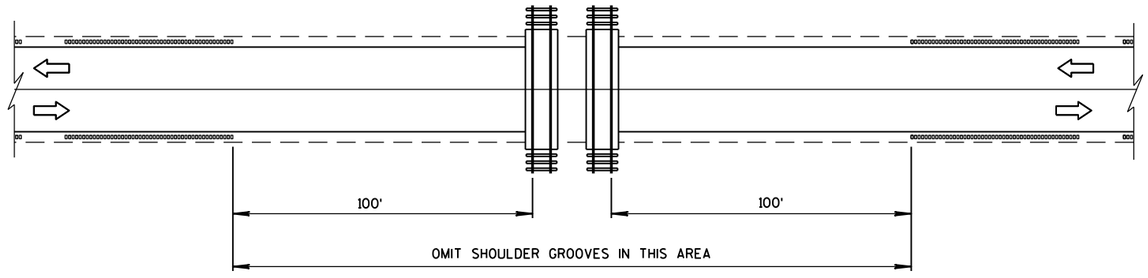
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



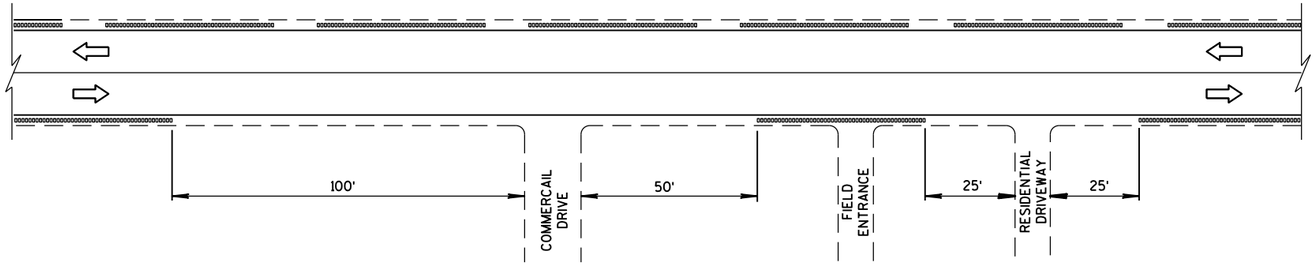
SHOULDER GROOVES AT INTERSECTIONS



SHOULDER GROOVES AT BRIDGES



SHOULDER GROOVES AT RAILROADS

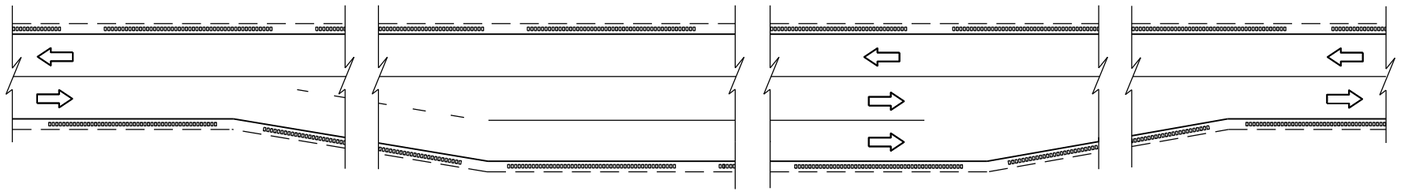


SHOULDER GROOVES AT DRIVEWAYS (1)

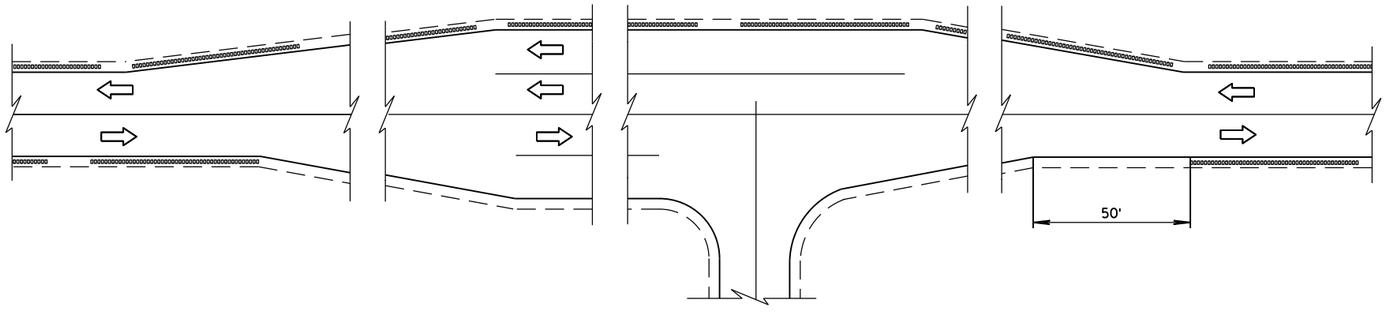
2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 13 A 10-1c



SHOULDER GROOVES AT PASSING AND CLIMBING LANES



SHOULDER GROOVES AT BYPASS LANES

6

6

S.D.D. 13 A 10-1d

S.D.D. 13 A 10-1d

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

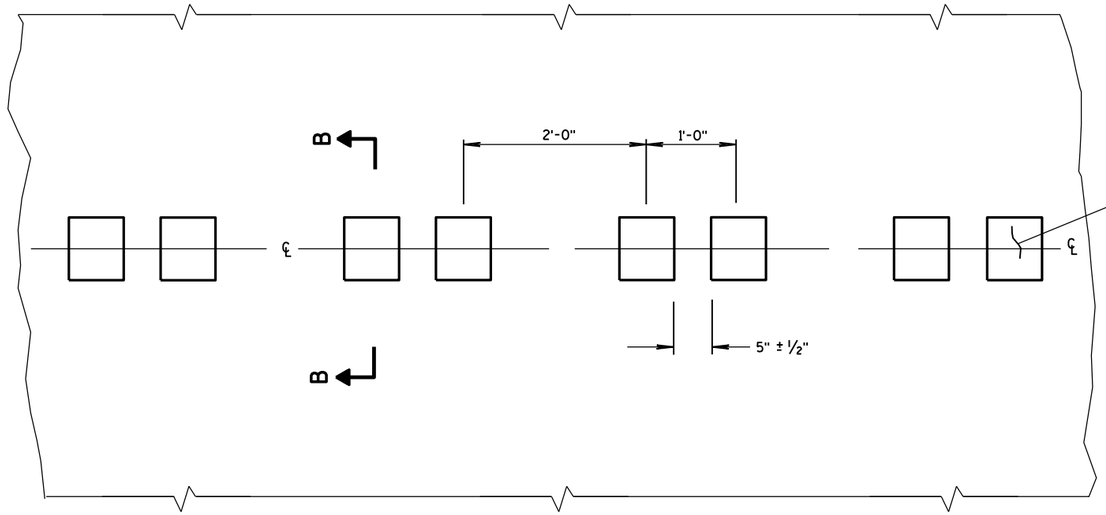
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

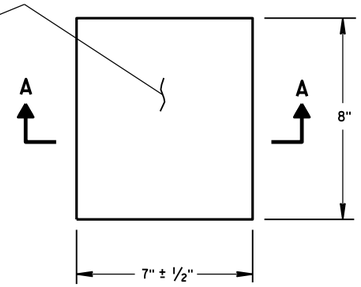
12/17/2012
DATE

/S/ Jerry H. Zoga
ROADWAY STANDARDS ENGINEER

FHWA



PLAN VIEW
CENTER LINE WITH GROOVES



PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

GENERAL NOTES

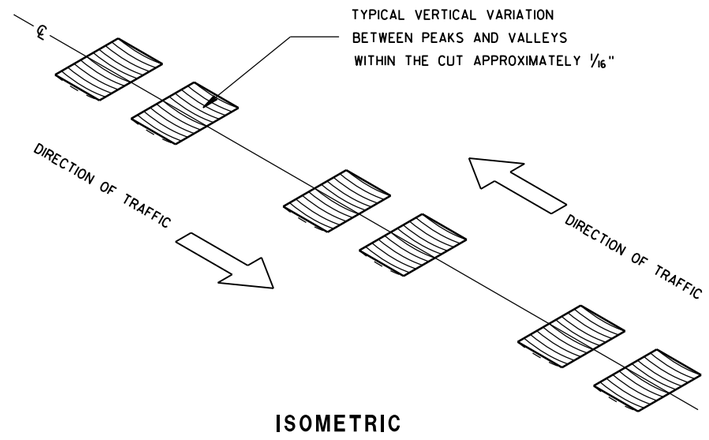
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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

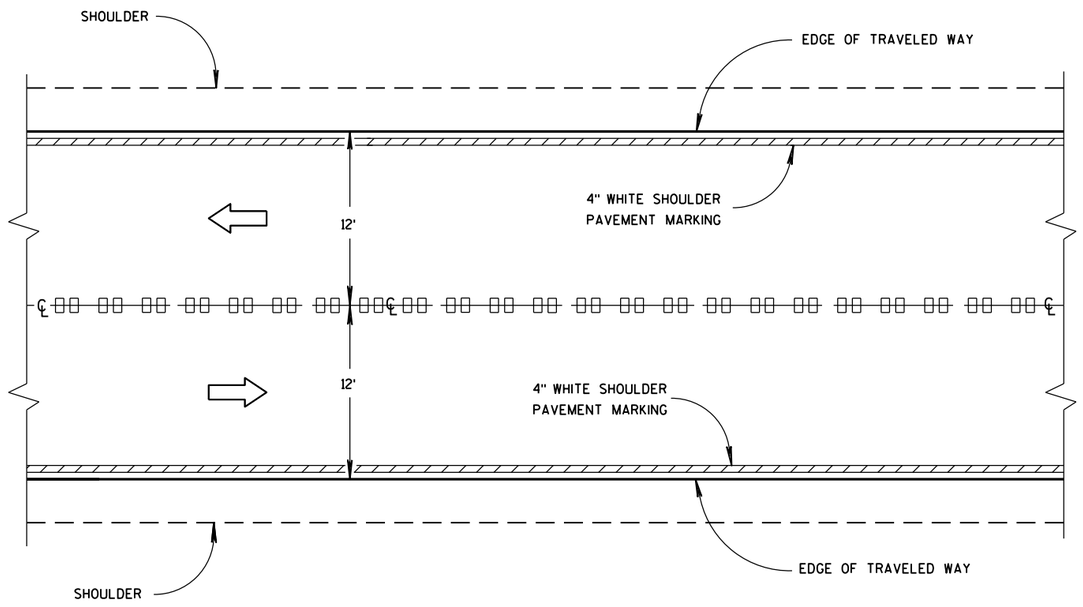
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

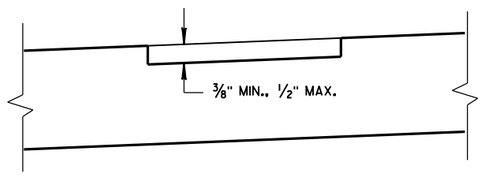
(1) CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



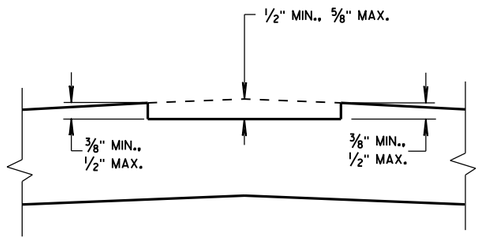
ISOMETRIC



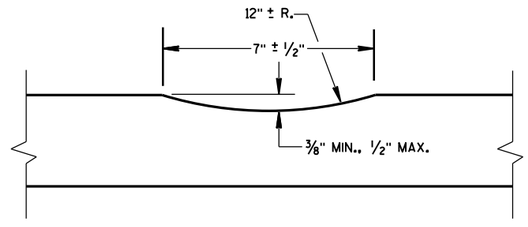
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



SECTION B-B
CROWNED ROADWAY



SECTION A-A

6

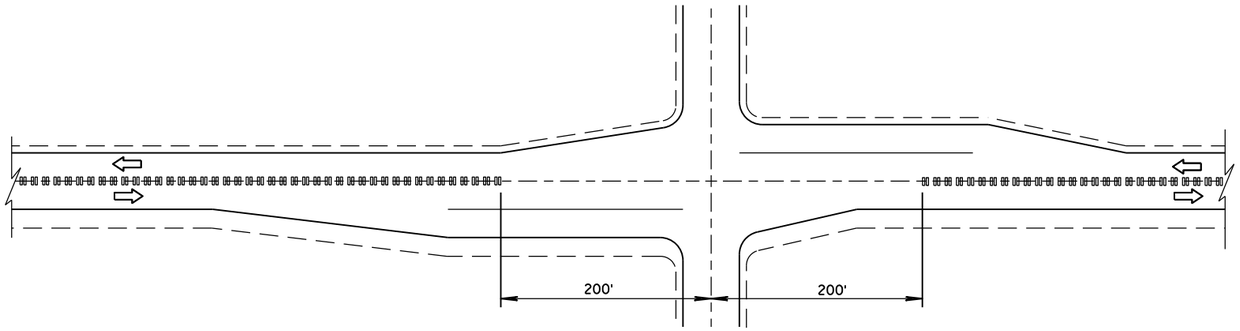
S.D.D. 13 A 11-2a

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

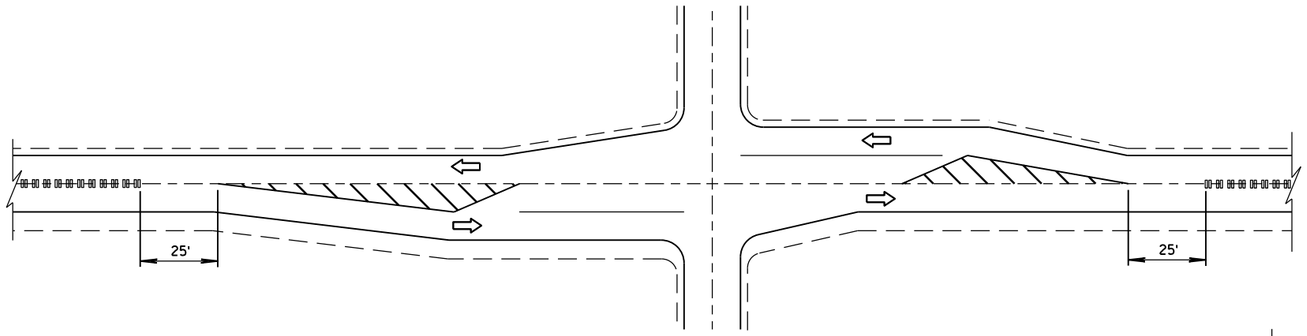
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

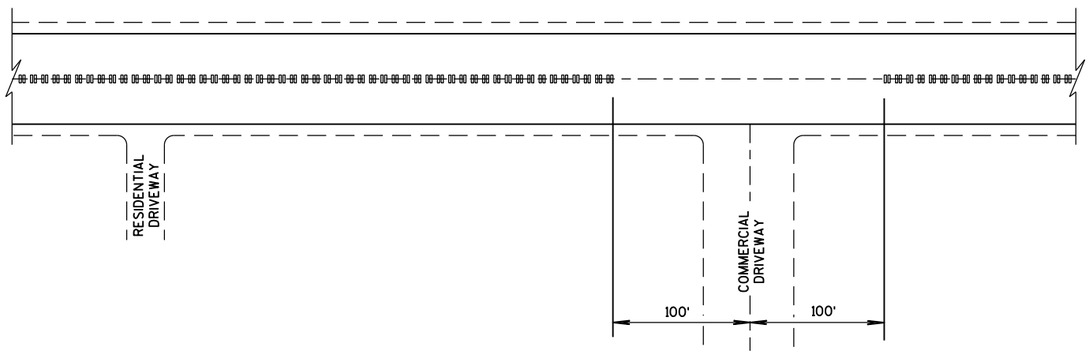
S.D.D. 13 A 11-2a



CENTER LINE GROOVES AT INTERSECTIONS

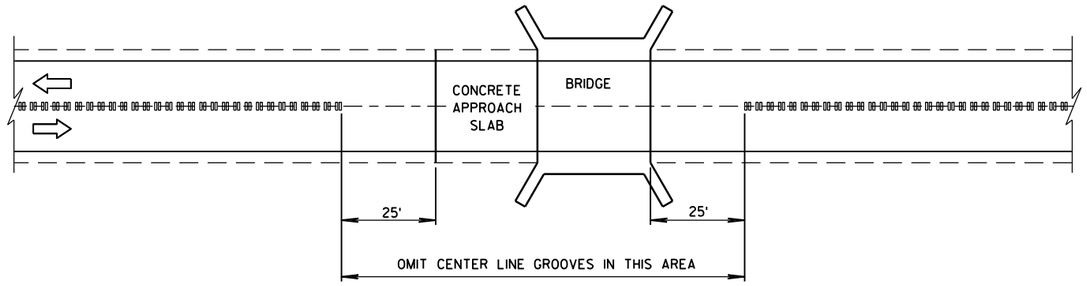


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

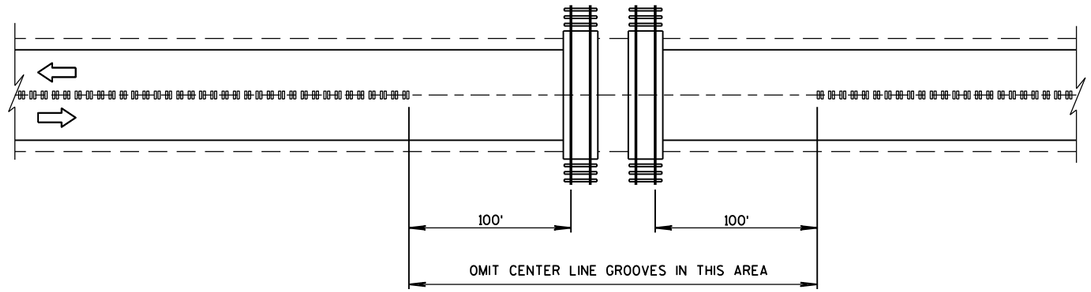


CENTER LINE GROOVES AT DRIVEWAYS (1)

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



CENTER LINE GROOVES AT BRIDGES



CENTER LINE GROOVES AT RAILROADS

6

S.D.D. 13 A 11-2b

6

S.D.D. 13 A 11-2b

2-LANE RURAL
CENTER LINE RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/15/2013
DATE

/S/ Jerry H. Zoda
ROADWAY STANDARDS DEVELOPMENT ENGINEER

NT

FHWA

① WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

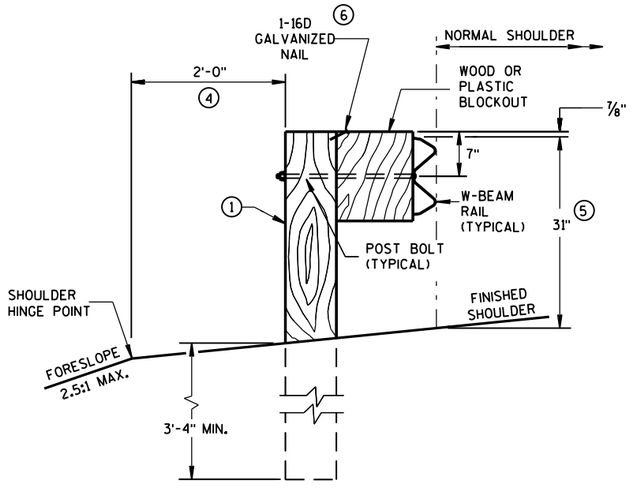
② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

③ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

④ WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

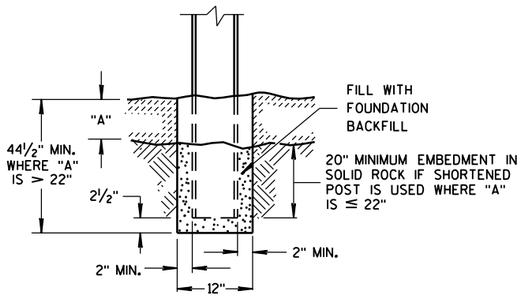
⑤ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

⑥ WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



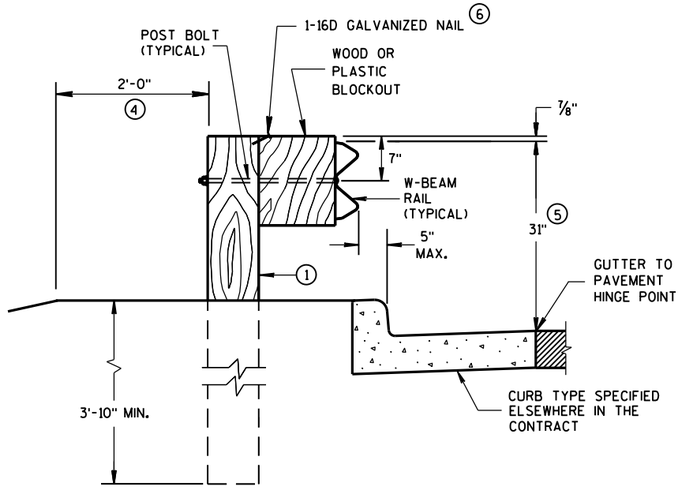
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



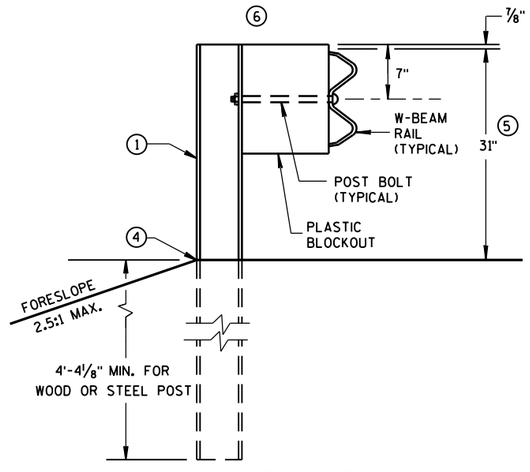
END VIEW

SETTING STEEL OR WOOD POST IN ROCK ③



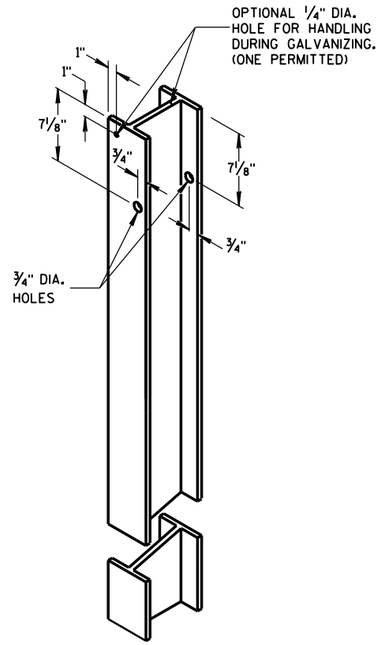
END VIEW

LOCATED ALONG A CURBED ROADWAY

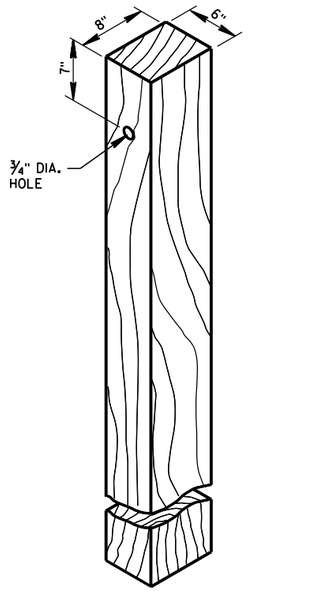


END VIEW

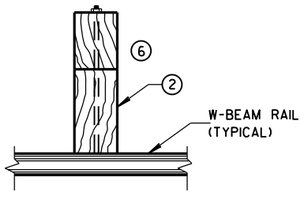
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



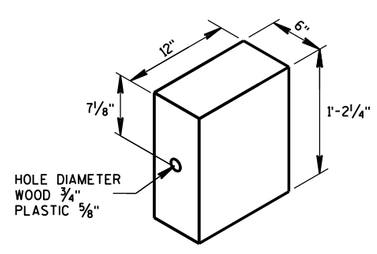
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



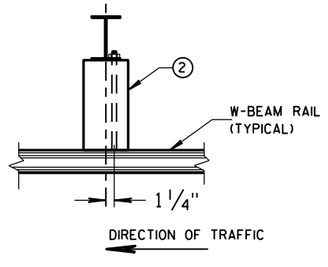
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②



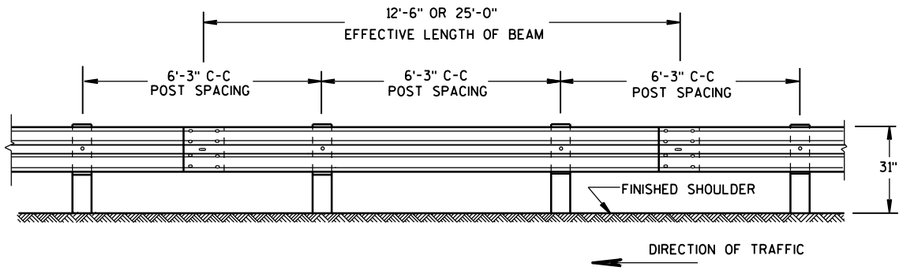
PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

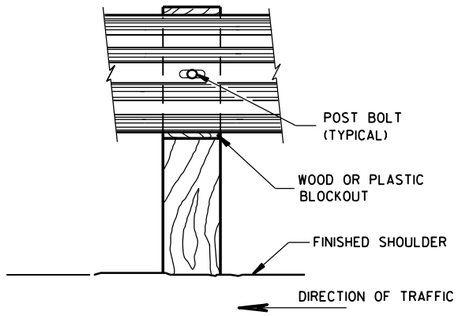
6

S.D.D. 14 B 42-4a



FRONT VIEW

POST SPACING STANDARD INSTALLATION



FRONT VIEW AT WOOD POST

7. PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.

8. 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.

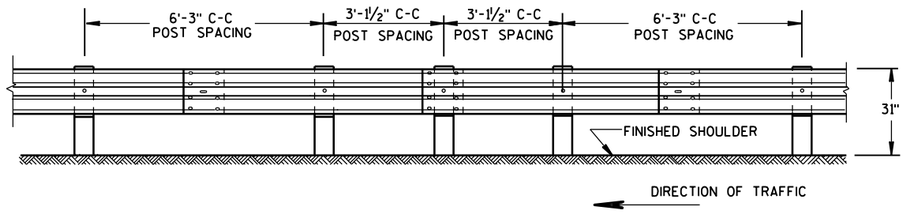
9. REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

10. PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

11. 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

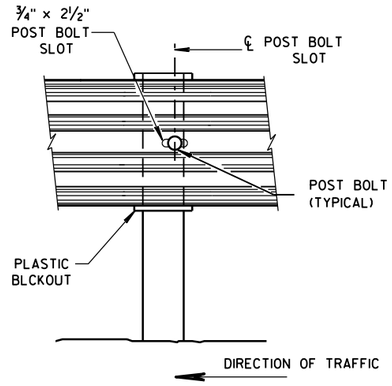
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

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.

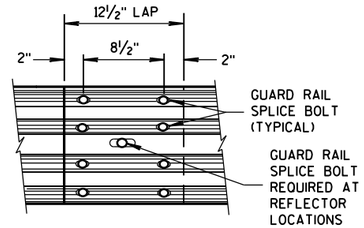


FRONT VIEW

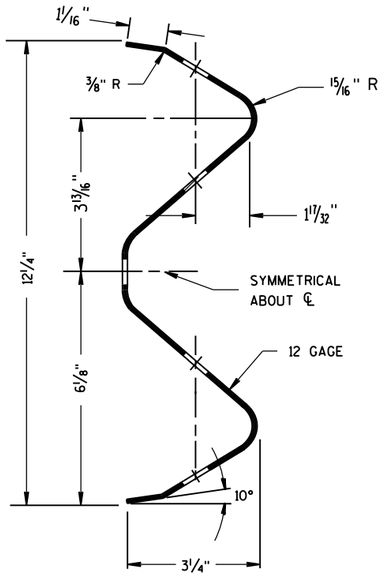
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



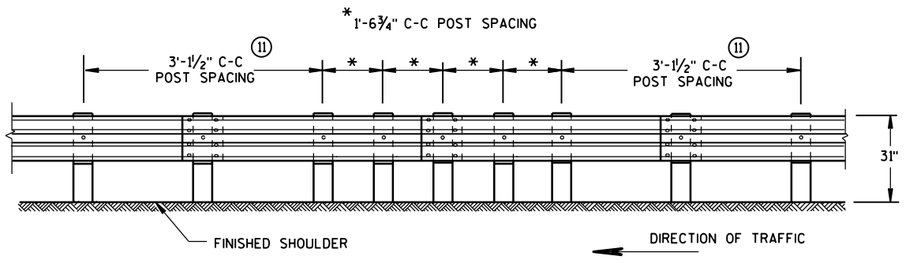
FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE

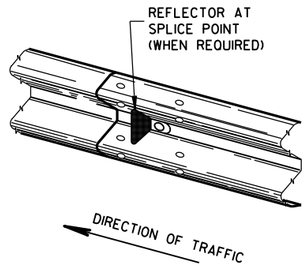


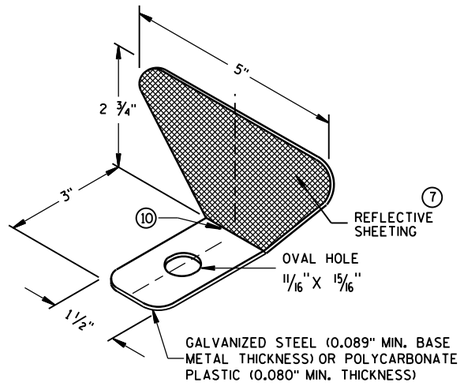
SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION 7

REFLECTOR SPACING 8

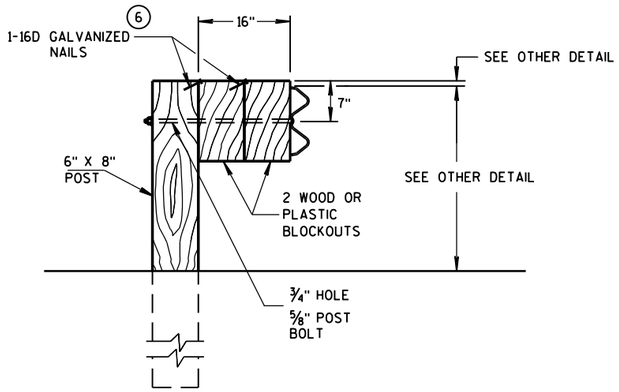
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 9	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2 10	

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

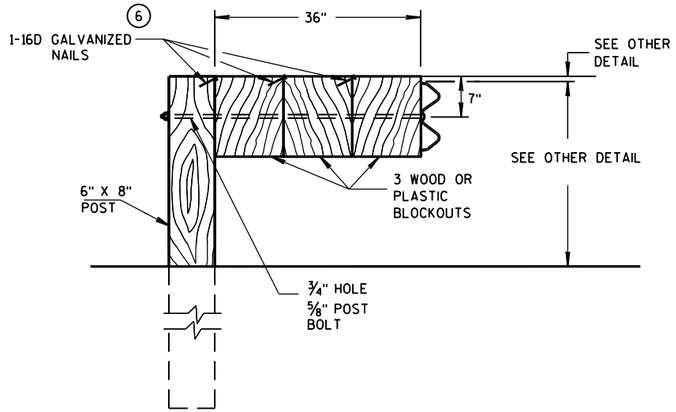
6

S.D.D. 14 B 42-4b



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.

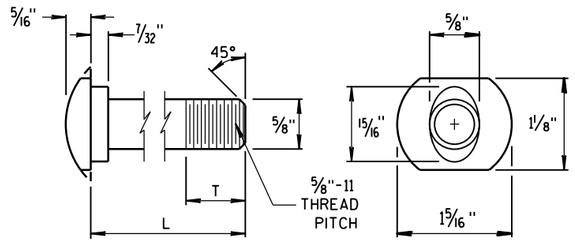


DETAIL FOR 36" BLOCKOUT DEPTH

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.

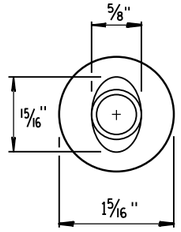
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

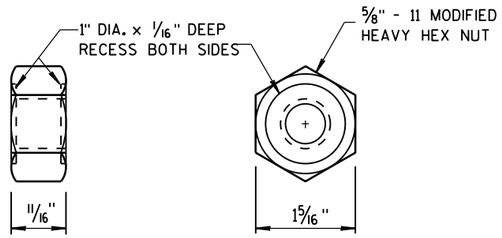


POST BOLT TABLE

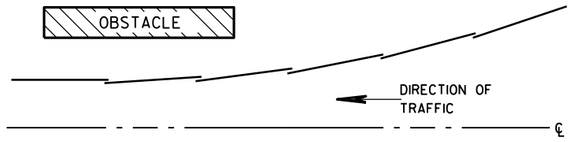
L	T (MIN.)
1¼"	1⅛"
2"	1¾"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

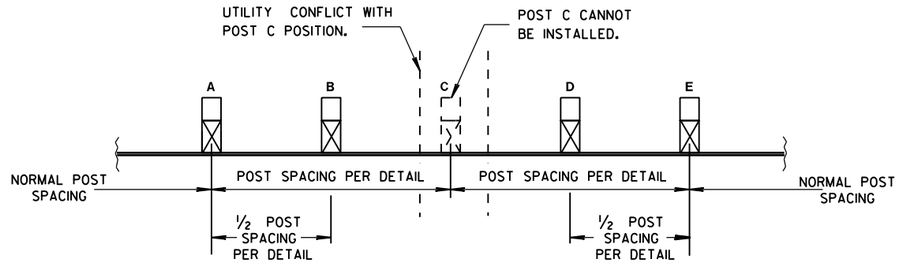


POST BOLT, SPLICE BOLT AND RECESS NUT

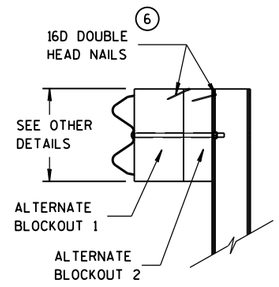


PLAN VIEW

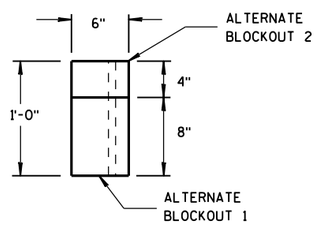
BEAM LAPPING DETAIL



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
June 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 42-4c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

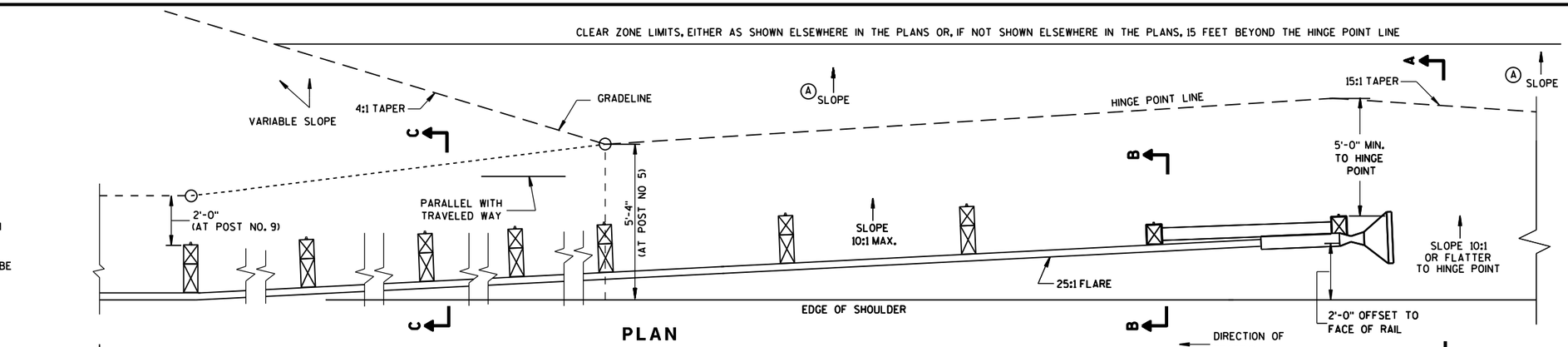
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

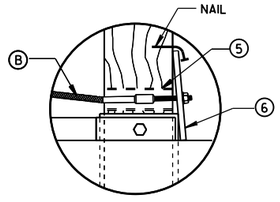
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

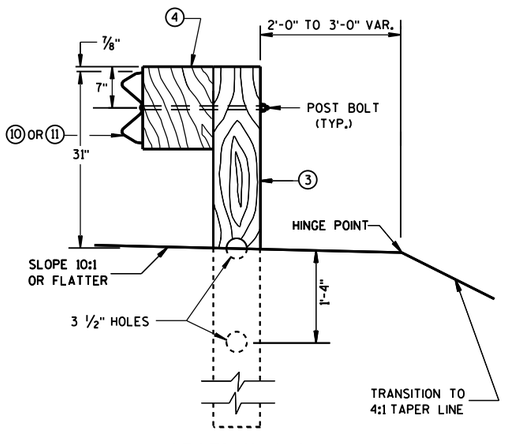
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.

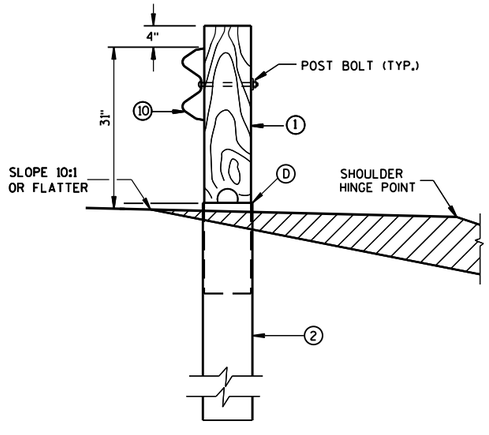


ELEVATION

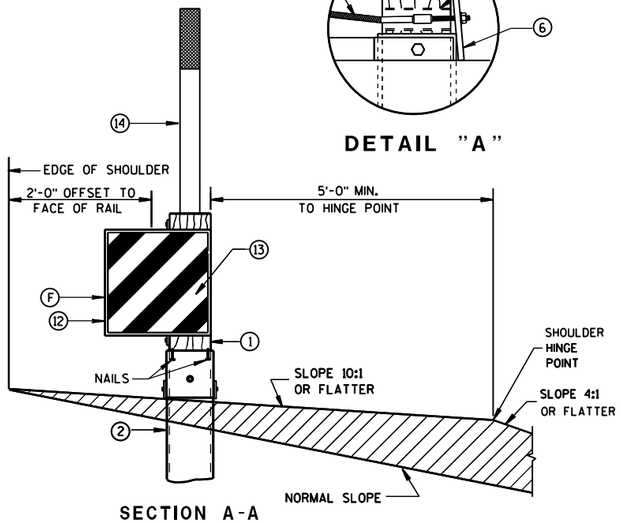




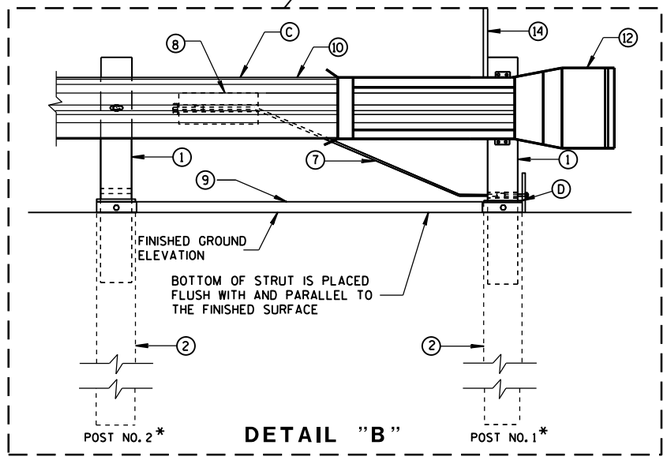
SECTION C-C
TYPICAL AT POST NOS. 3-9



SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*

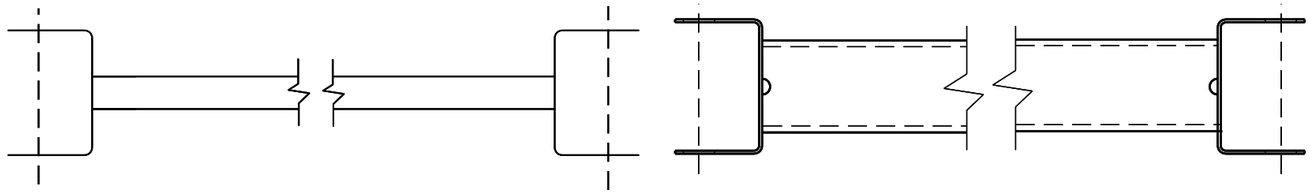


DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

S.D.D. 14 B 44-2a

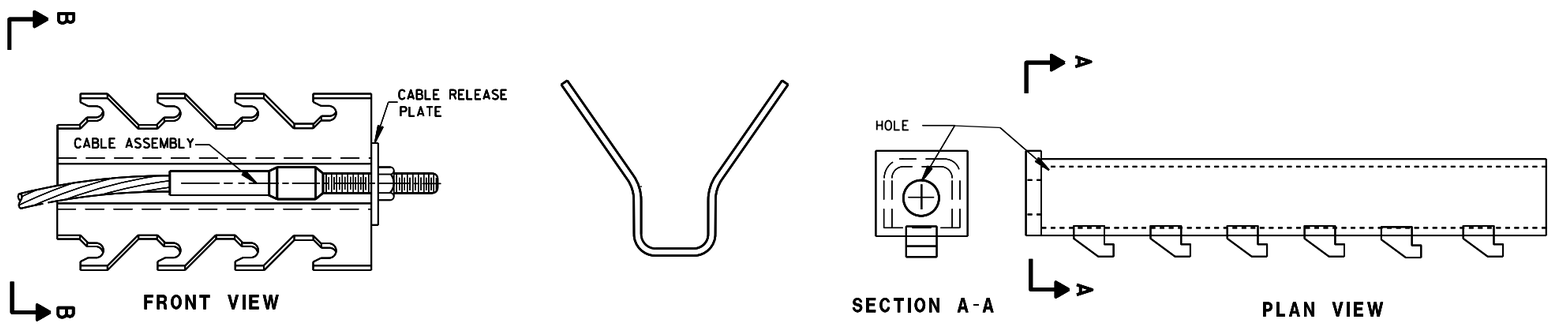


⑨ Ⓗ

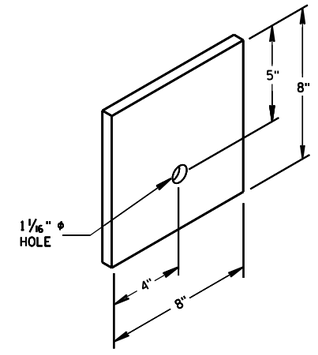
GENERIC GROUND STRUT

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
①	WOOD BREAKAWAY POST
②	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	END SECTION EAT
⑬	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
⑭	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



GENERIC ANCHOR CABLE BOX ⑧ Ⓗ



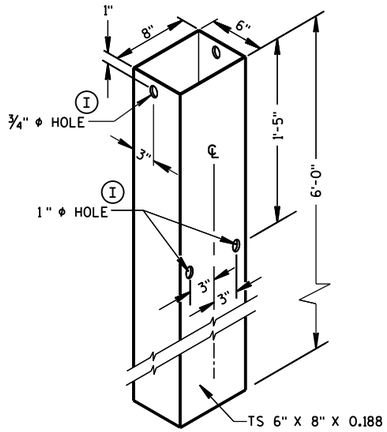
BEARING PLATE ⑥

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

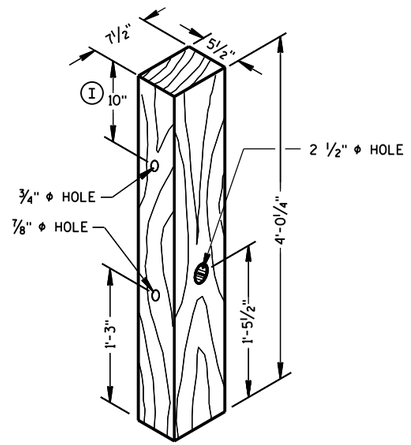
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 44-2b

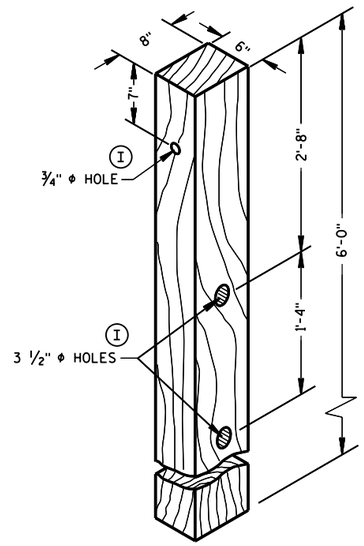


FOUNDATION TUBE (2)



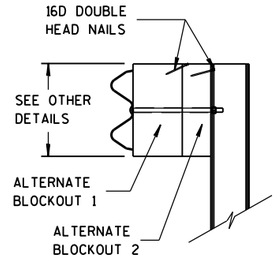
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

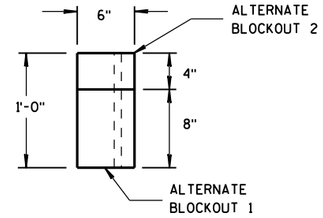


POSTS NUMBER 3-9

WOOD CRT POST (3)

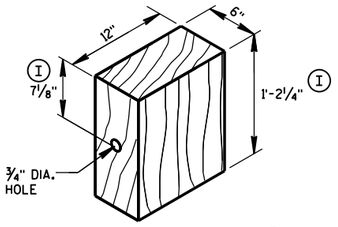


SIDE VIEW



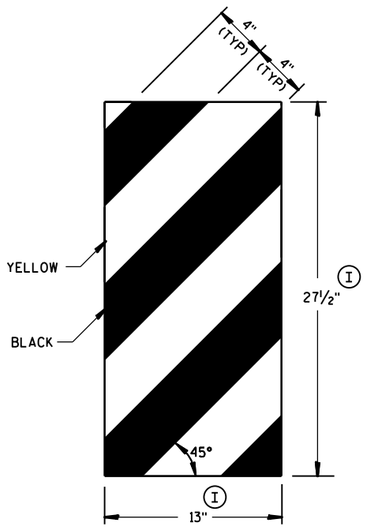
TOP VIEW

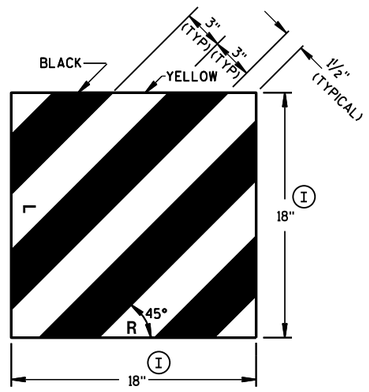
ALTERNATE WOOD BLOCKOUT DETAIL



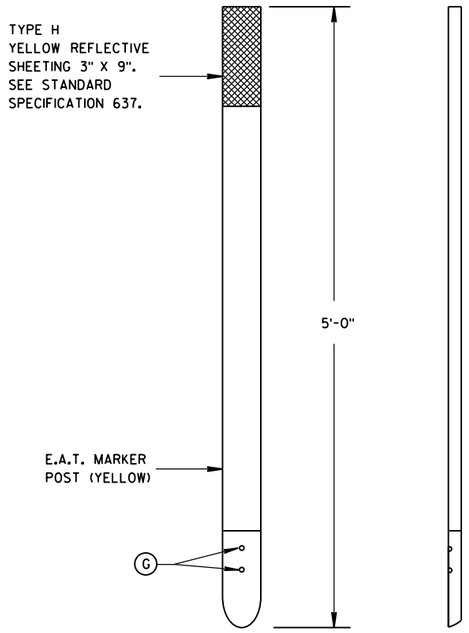
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





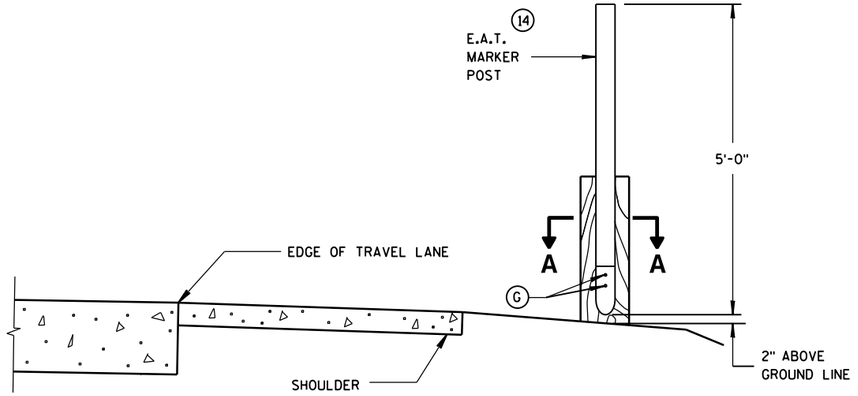
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

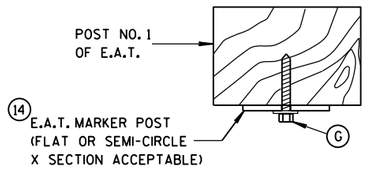
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

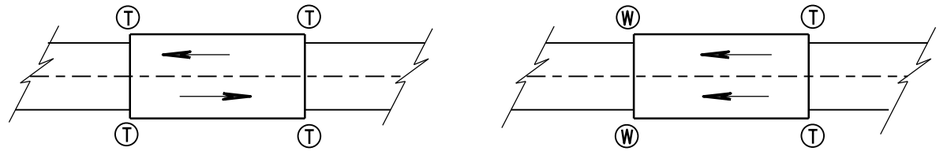
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

S.D.D. 14 B 44-2c



TWO WAY TRAFFIC **ONE WAY TRAFFIC**

Ⓣ THRIE BEAM CONNECTION

Ⓦ W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

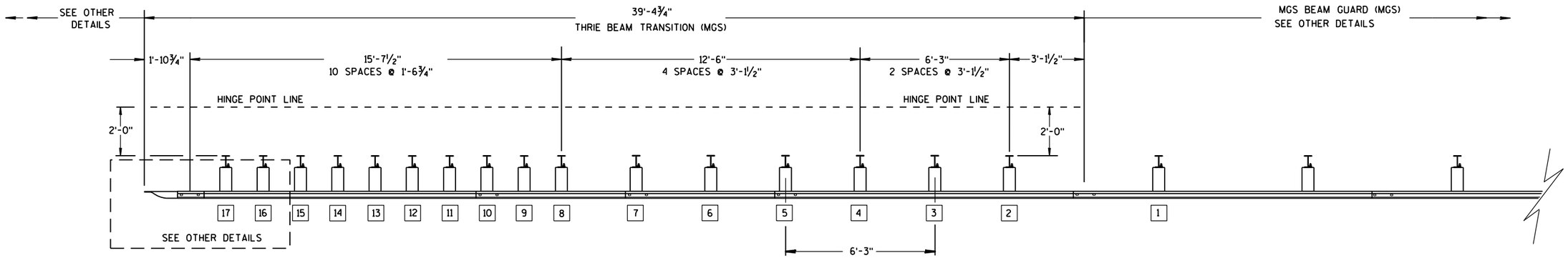
IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

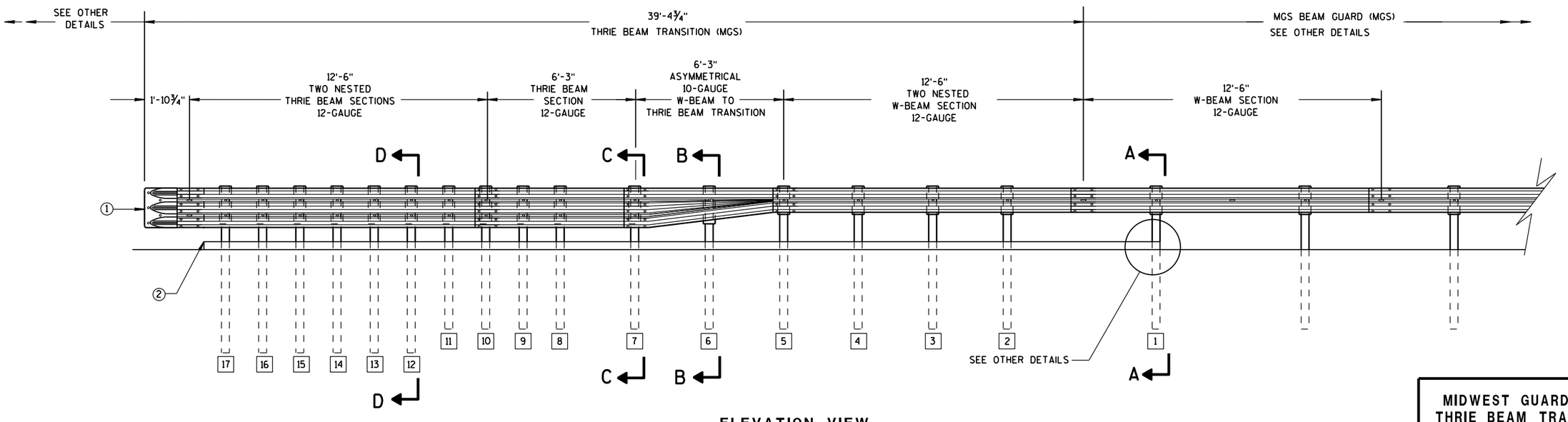
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

① BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 45-4a

6

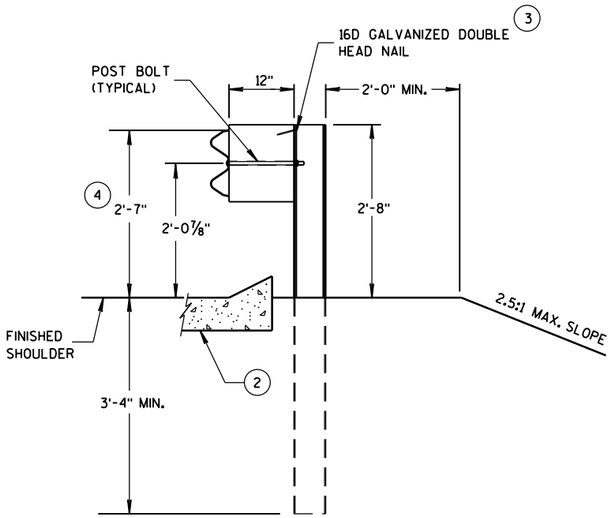
S.D.D. 14 B 45-4a

GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE_FEATURE SEE PLAN FOR INFORMATION.

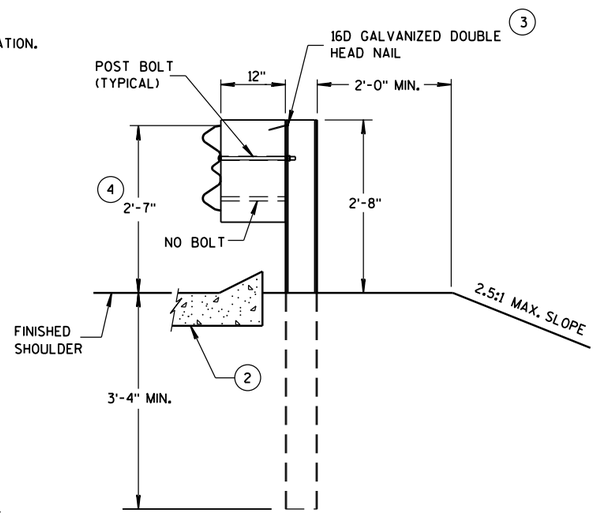
(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



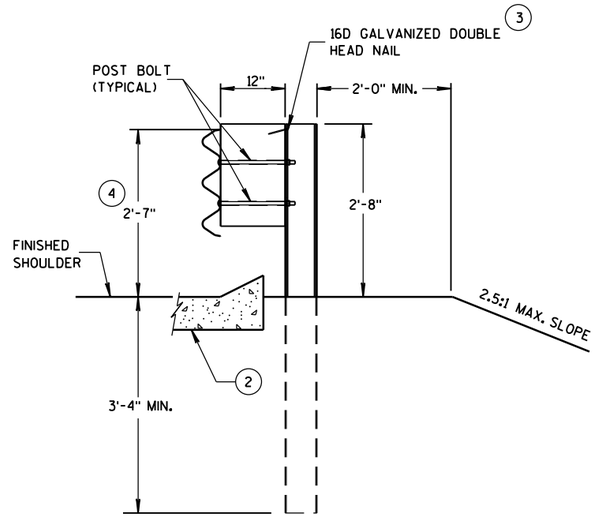
SECTION A-A

POSTS 1-5



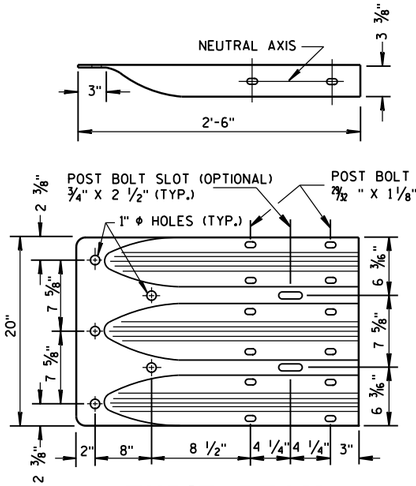
SECTION B-B

POST 6



SECTION C-C

POSTS 7-11



THRIE BEAM TERMINAL CONNECTOR

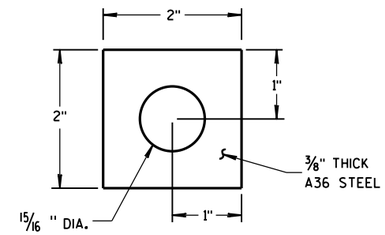
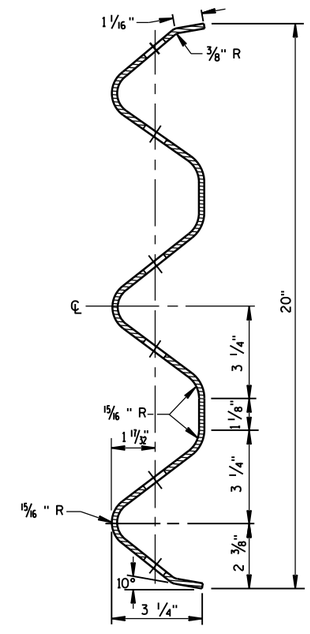
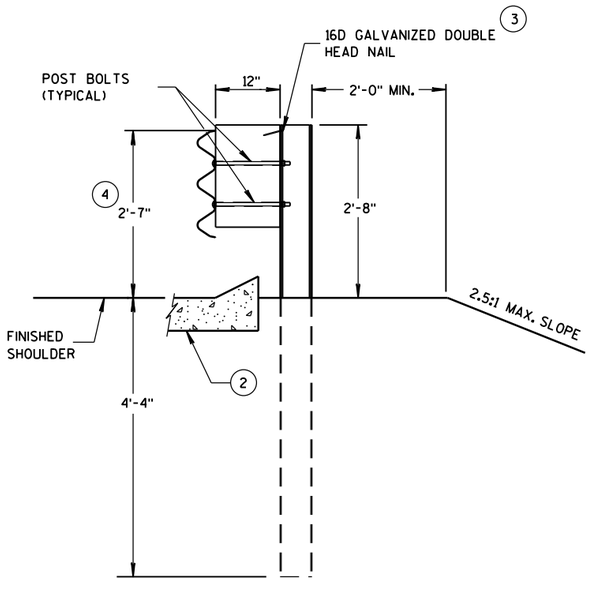


PLATE WASHER DETAIL

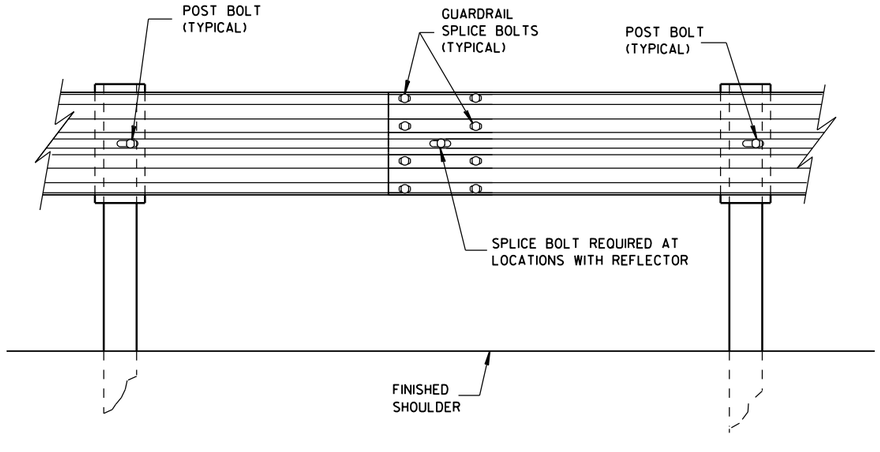


SECTION THRU THRIE BEAM RAIL ELEMENT



SECTION D-D

POSTS 12-17



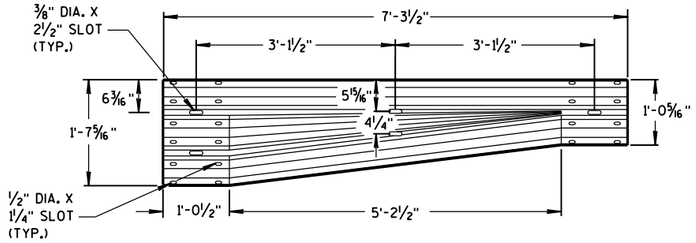
SPLICE DETAIL

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

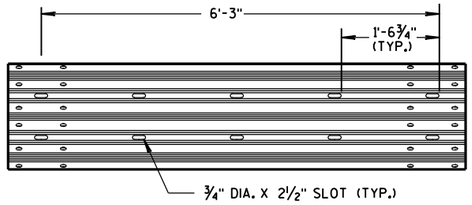
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

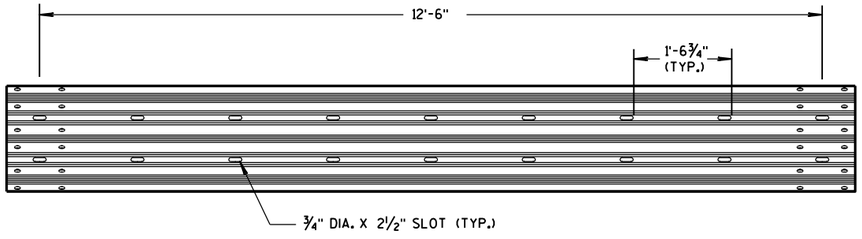
S.D.D. 14 B 45-4b



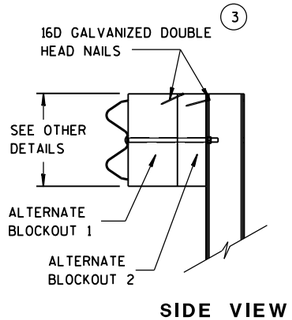
W-BEAM TO THRIE BEAM TRANSITION SECTION



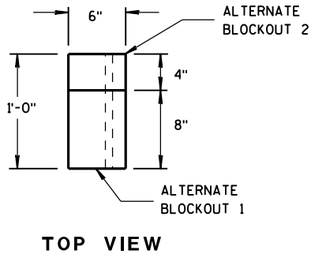
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

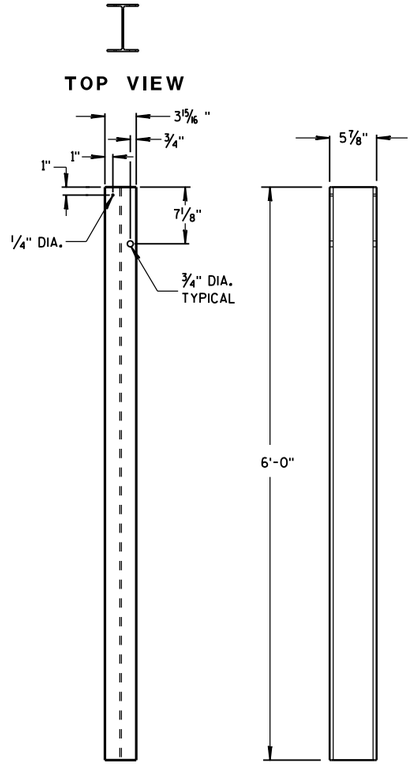


SIDE VIEW

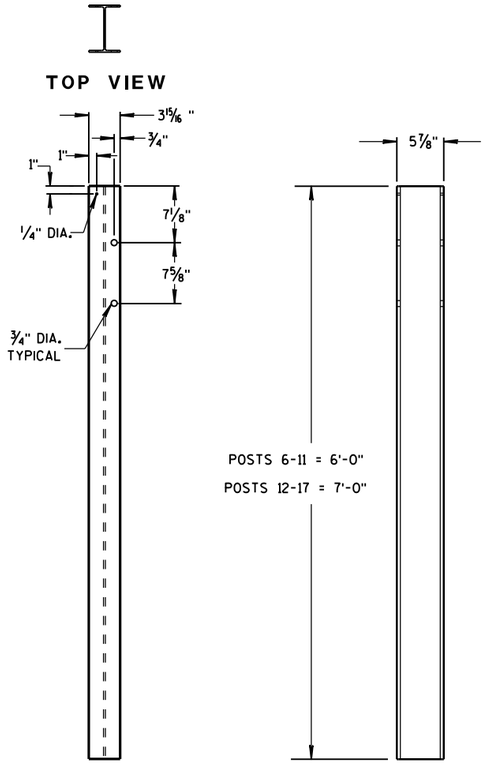


TOP VIEW

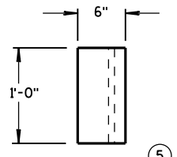
ALTERNATE WOOD BLOCKOUT DETAIL



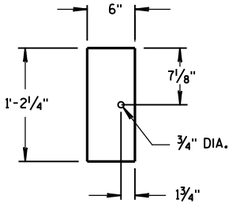
STEEL POSTS 1-5



STEEL POSTS 6-17

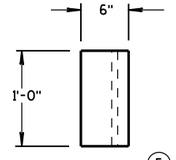


TOP VIEW (5)

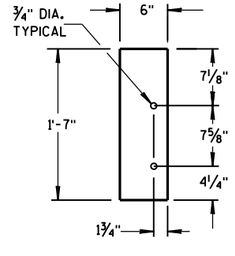


FRONT VIEW

BLOCKOUT POSTS 1-5



TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

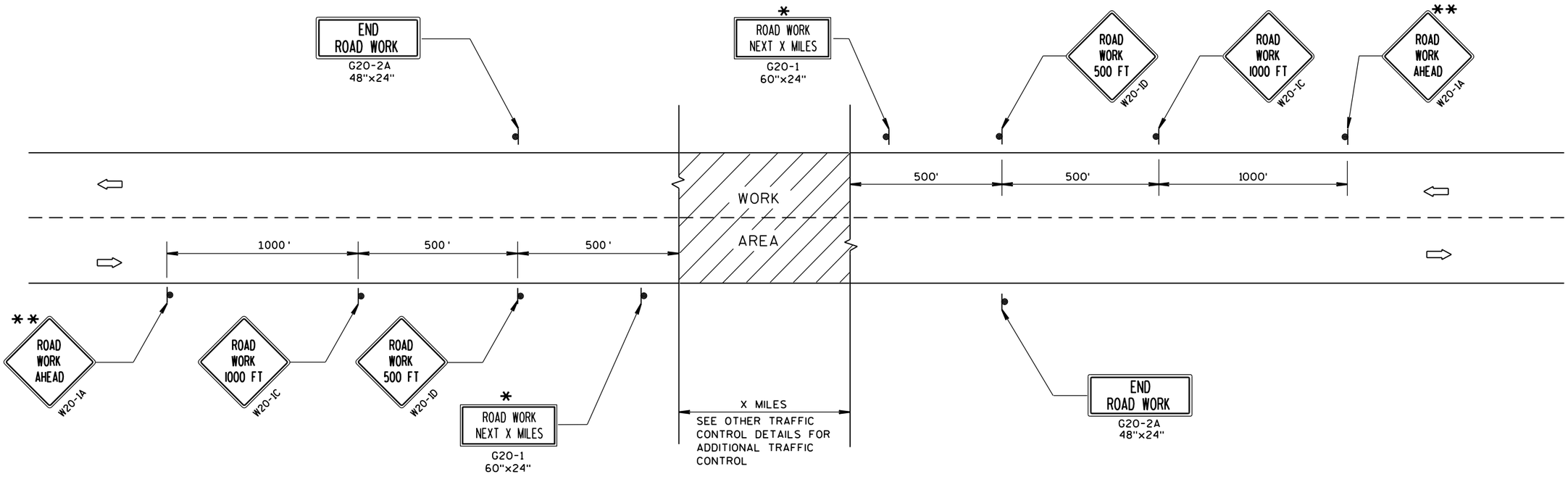
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 45-4c



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

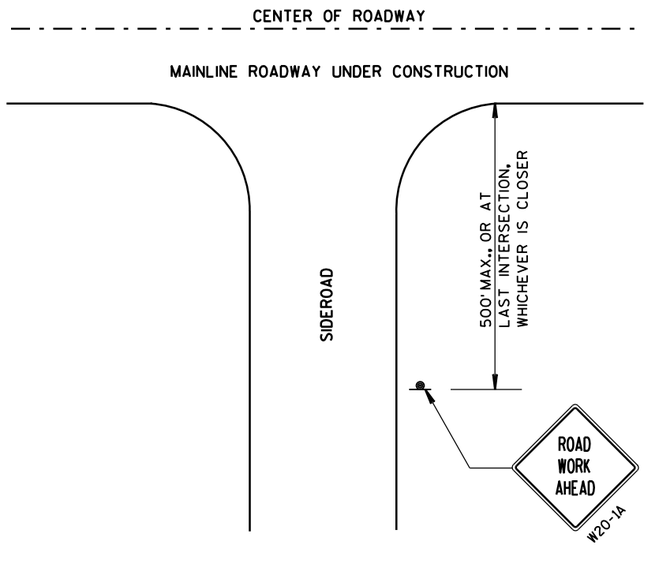
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZOI SAFETY ENGIN IC

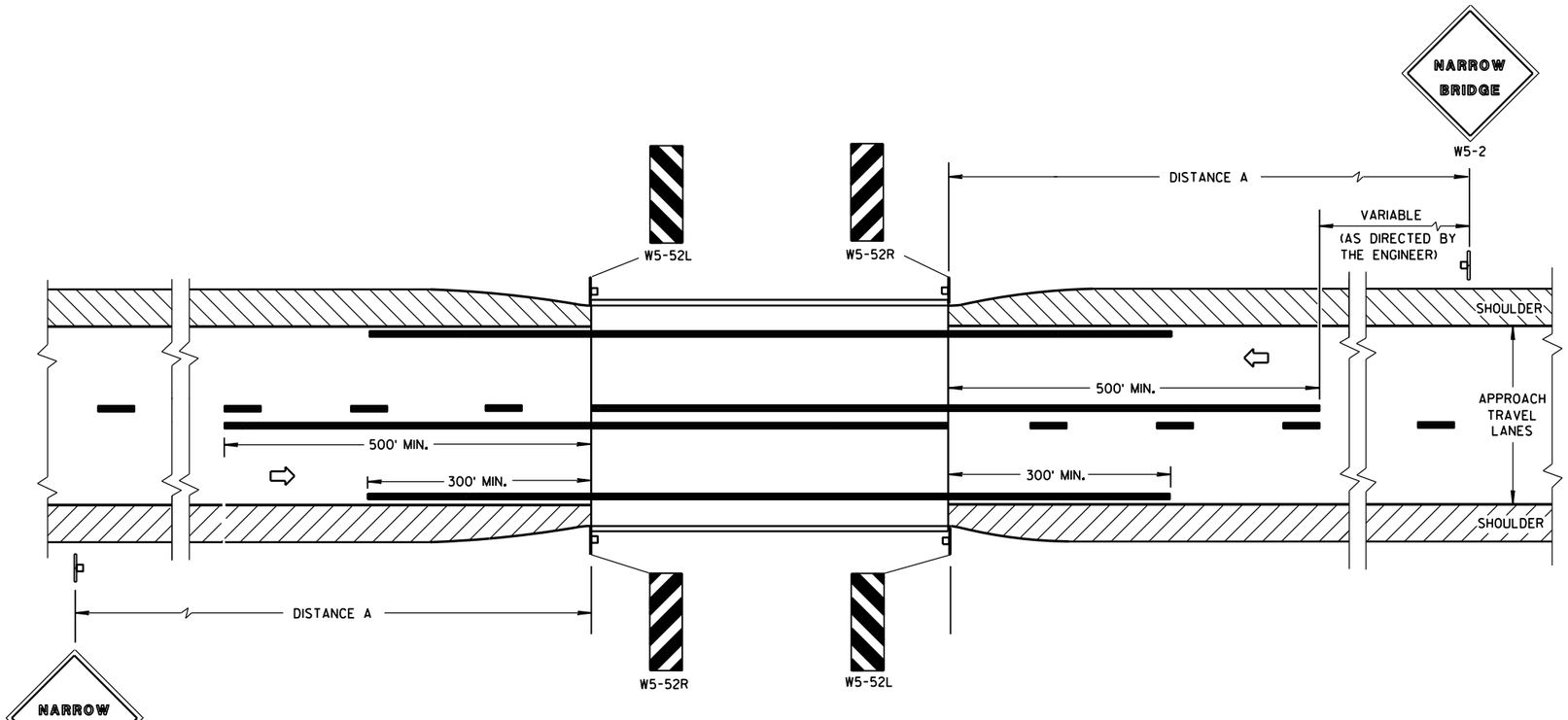
FHWA

6

S.D.D. 15 C 4-3

6

S.D.D. 15 C 4-3

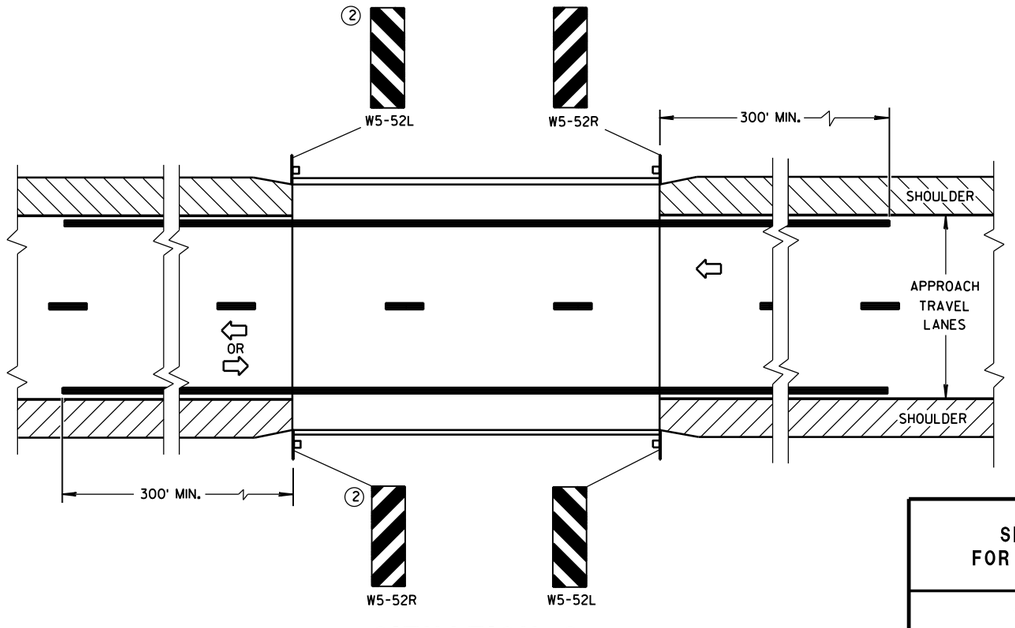


SITUATION 1

WARRANTING CRITERIA:
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	750'



SITUATION 2

WARRANTING CRITERIA:

1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET.

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.

① LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

② OMIT ON ONE-WAY TRAVELLED WAYS.

③ EDGE OF W5-52 SIGN SHALL BE PLACED IN LINE WITH FACE OF CURB OR PARAPET.

SIGNING & MARKING FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

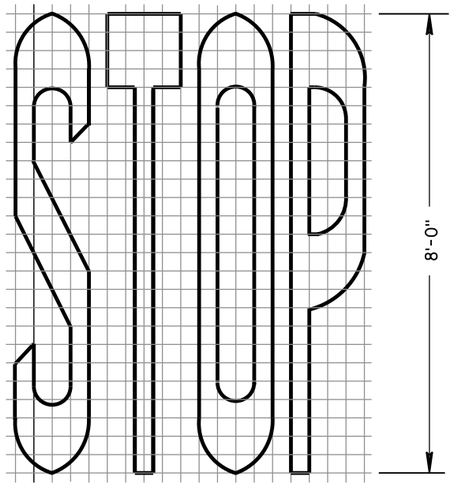
APPROVED
4-18-16 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR ...EER
FHWA

6

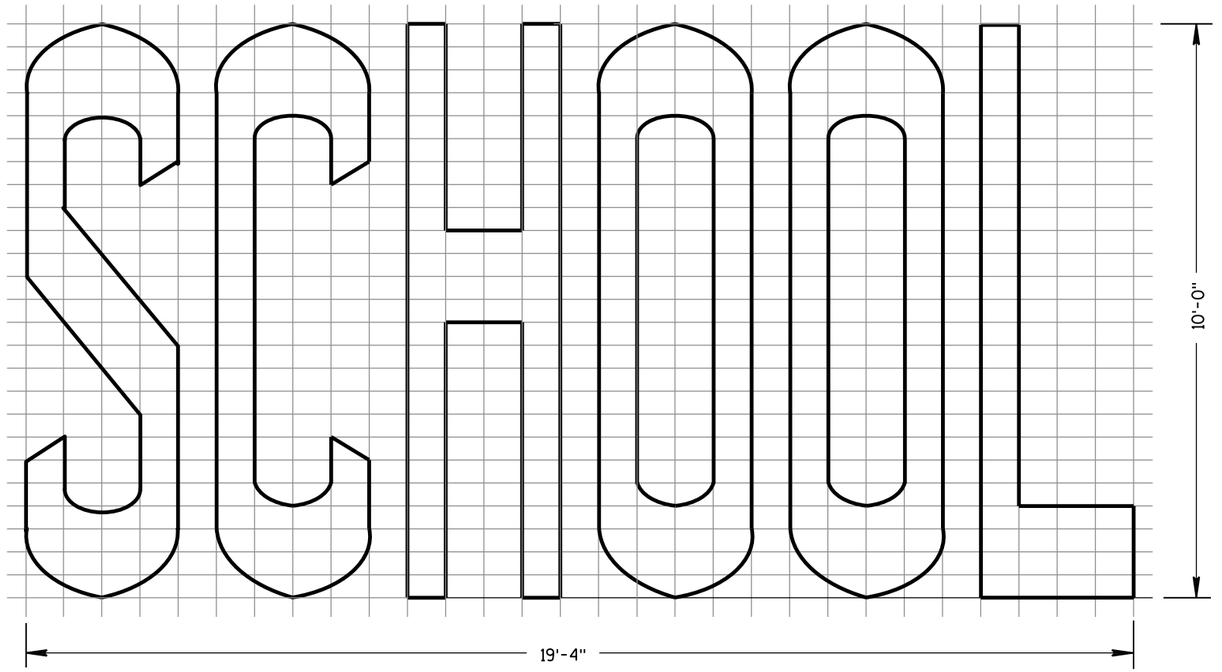
S.D.D. 15 C 6-8

GENERAL NOTES

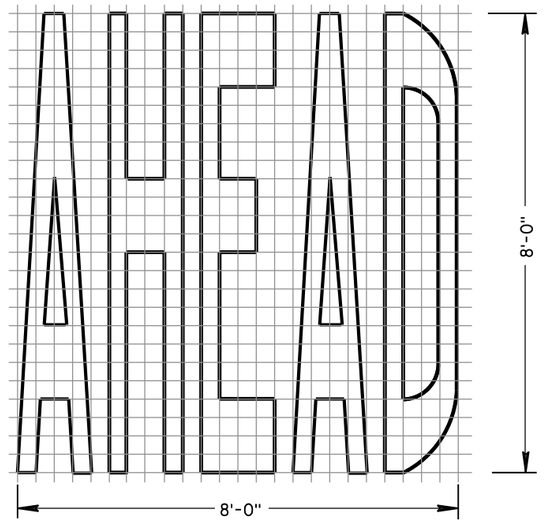
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

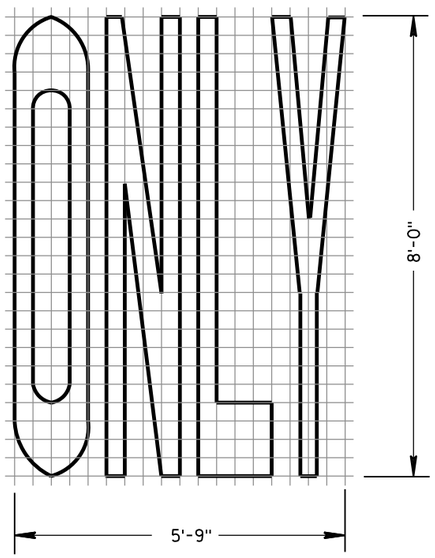


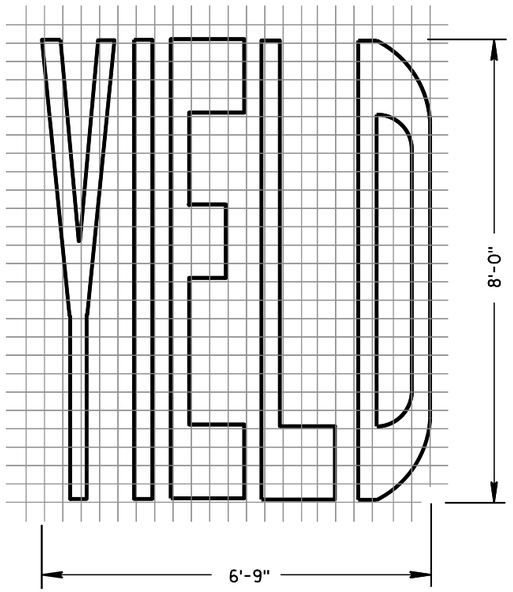


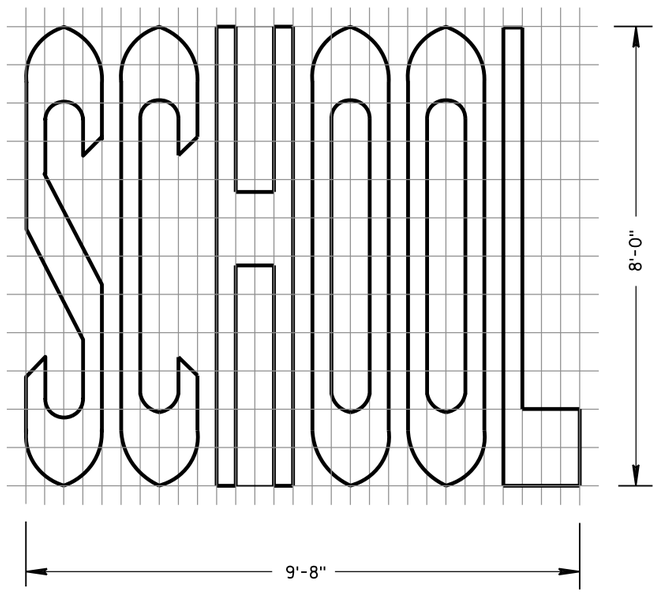


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-16	/S/ Matthew R. Rauch	
DATE	STATE SIGNING AND MARK	EER

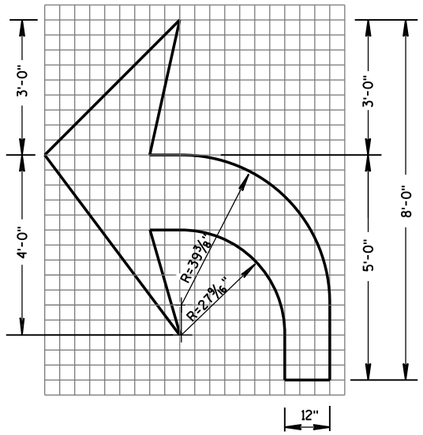
FHWA

6

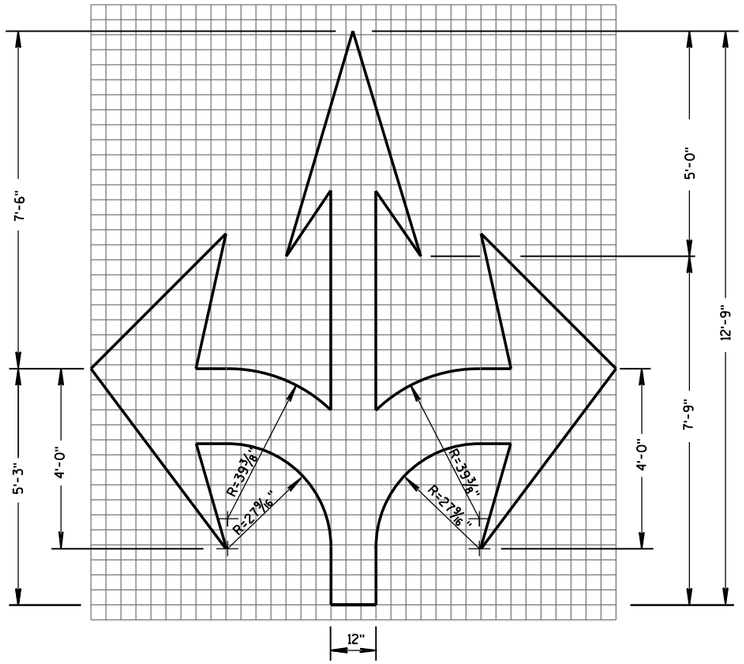
S.D.D. 15 C 7-13b

6

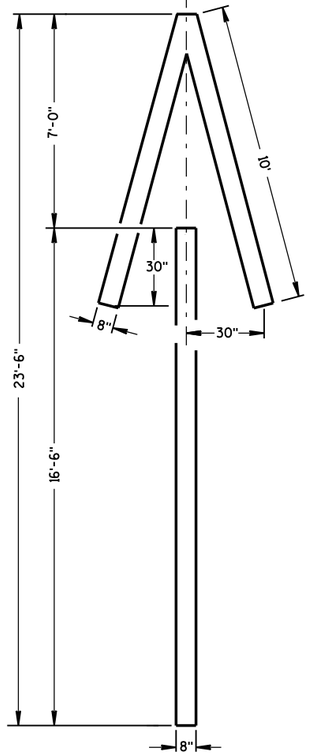
S.D.D. 15 C 7-13b



TYPE 2



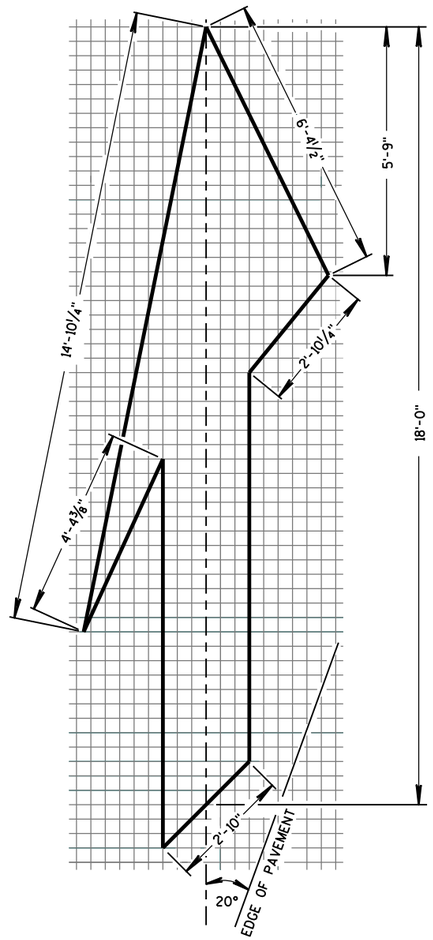
TYPE 6



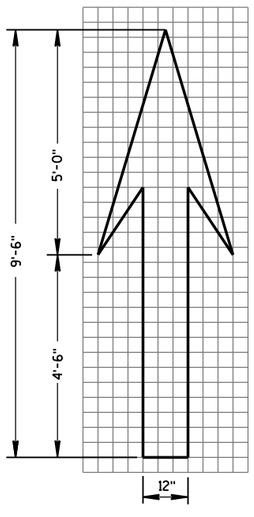
TYPE 4

GENERAL NOTES

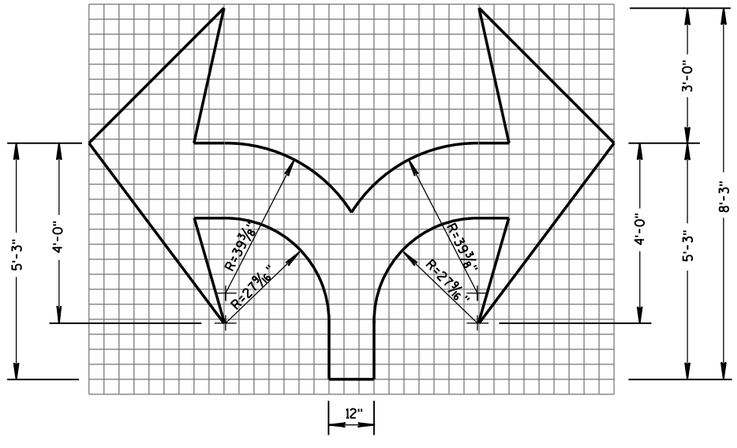
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



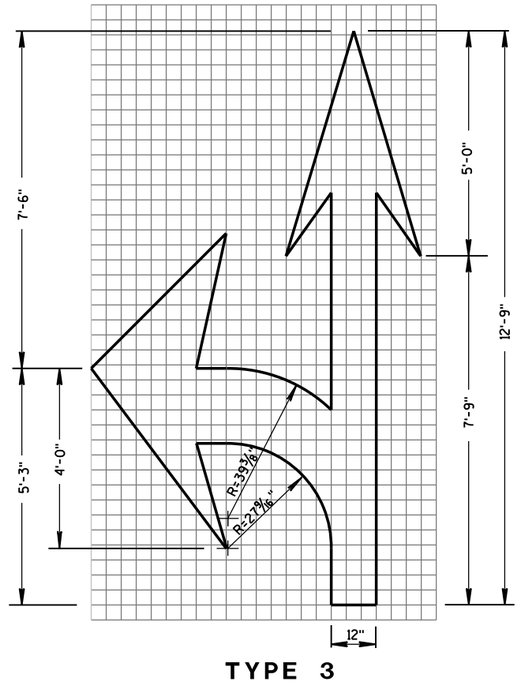
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

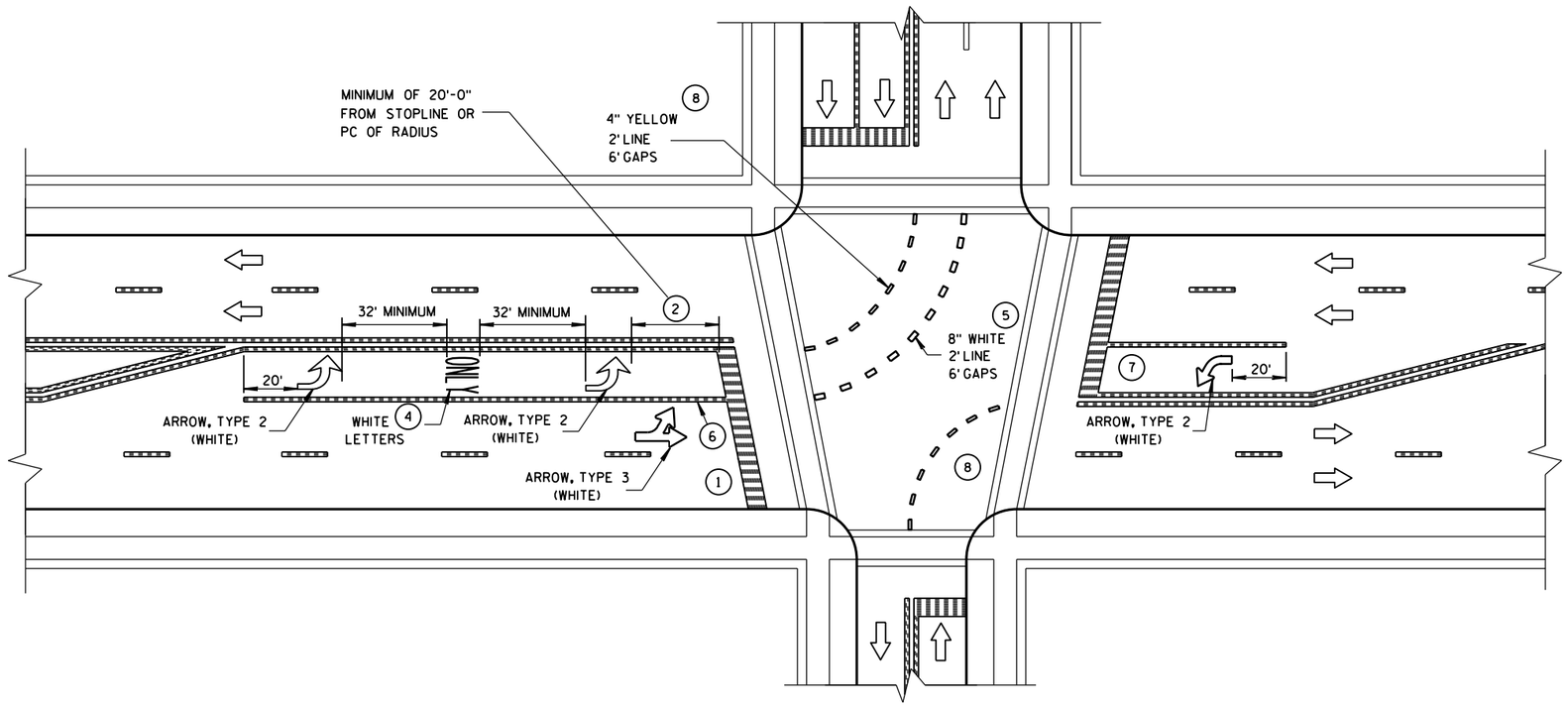
APPROVED
4-18-16
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MAR
ENGINEER
FHWA

6

S.D.D. 15 C 7-13c

6

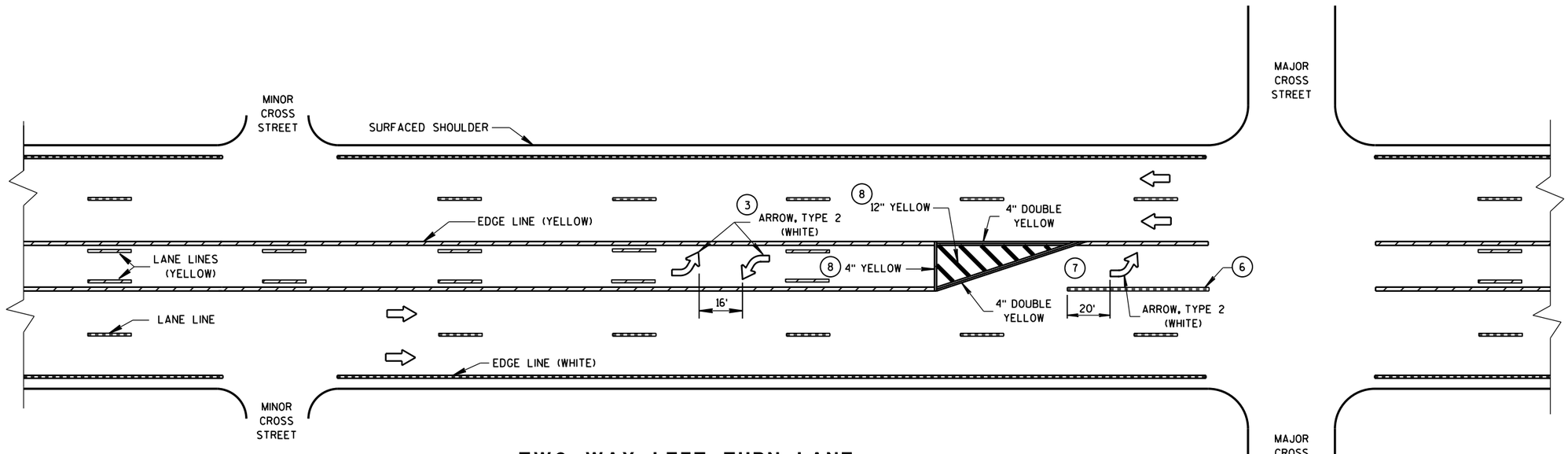
S.D.D. 15 C 7-13c



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

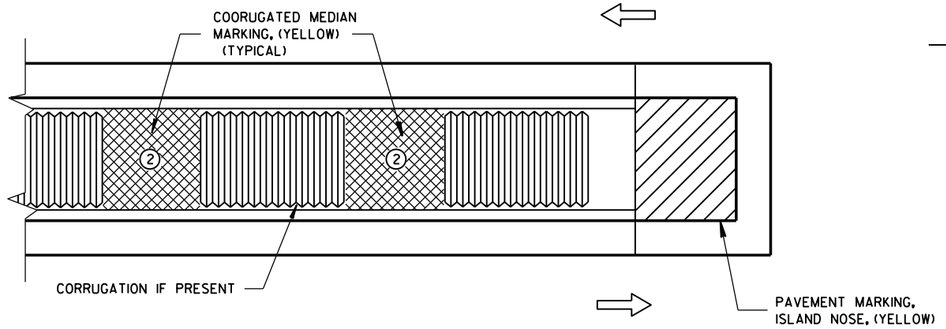
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

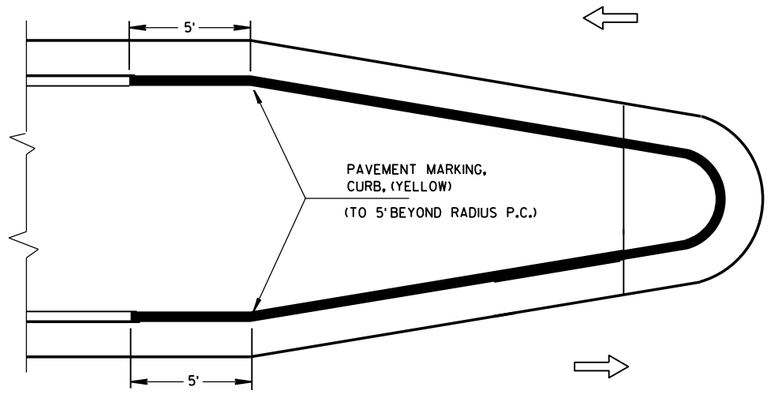
S.D.D. 15 C 8-16e

6

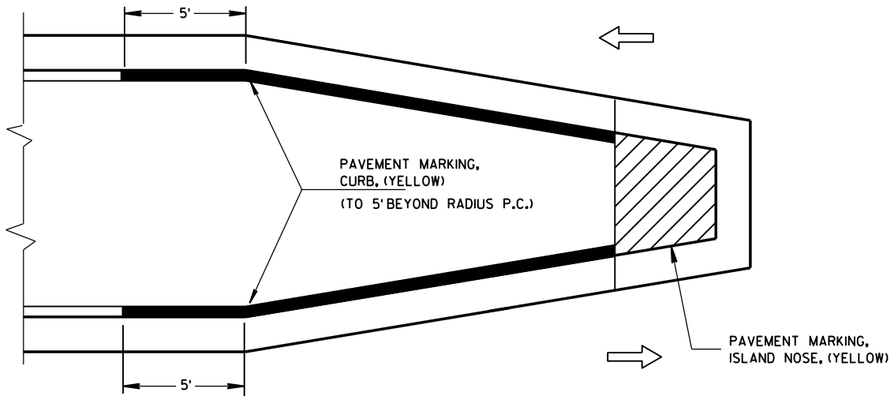
S.D.D. 15 C 8-16e



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

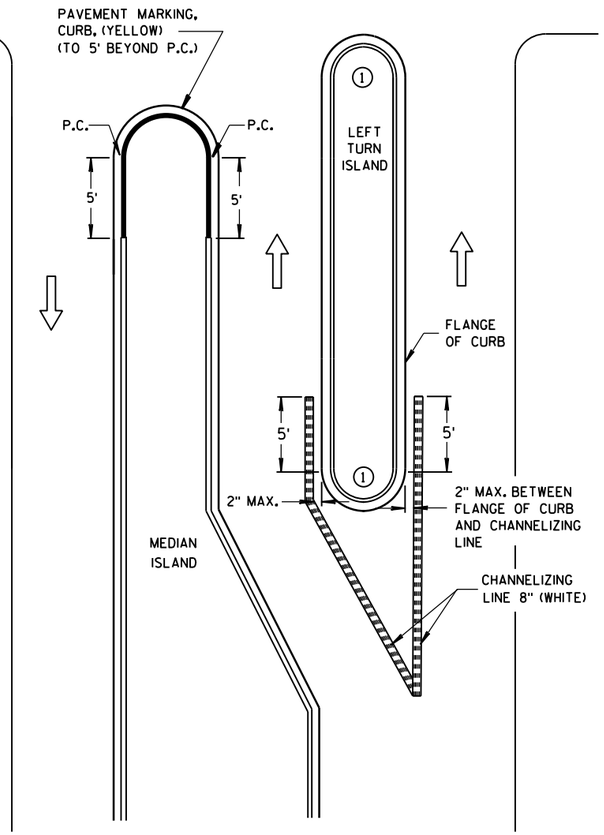


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

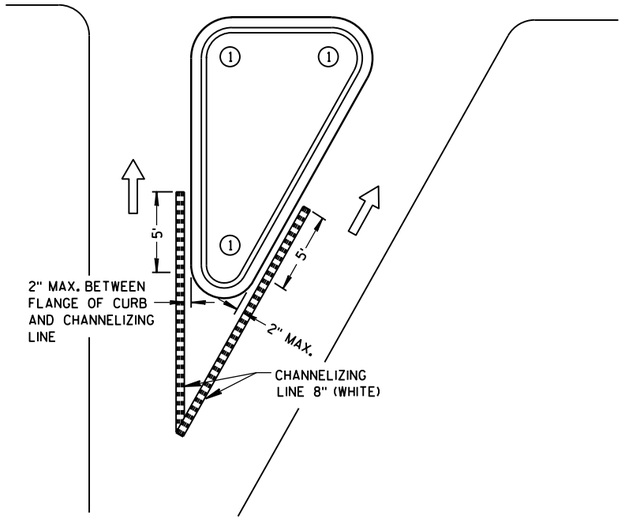


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

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

PAVEMENT MARKING
(ISLANDS)

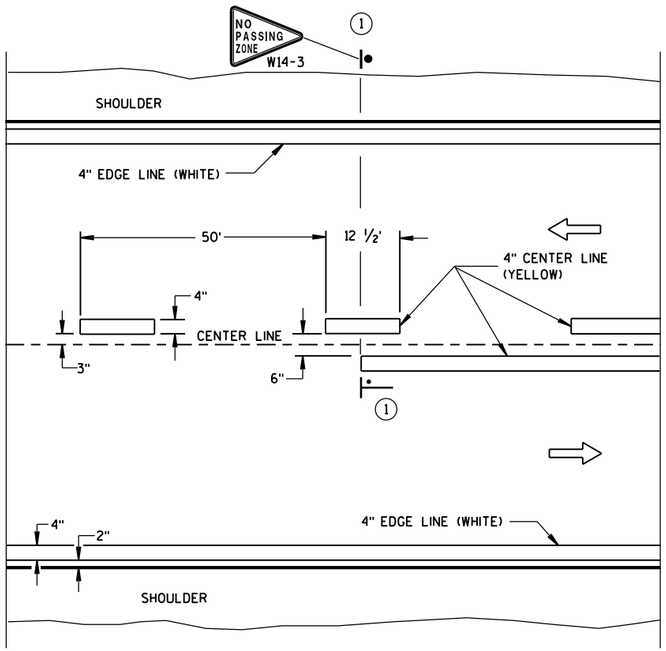
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

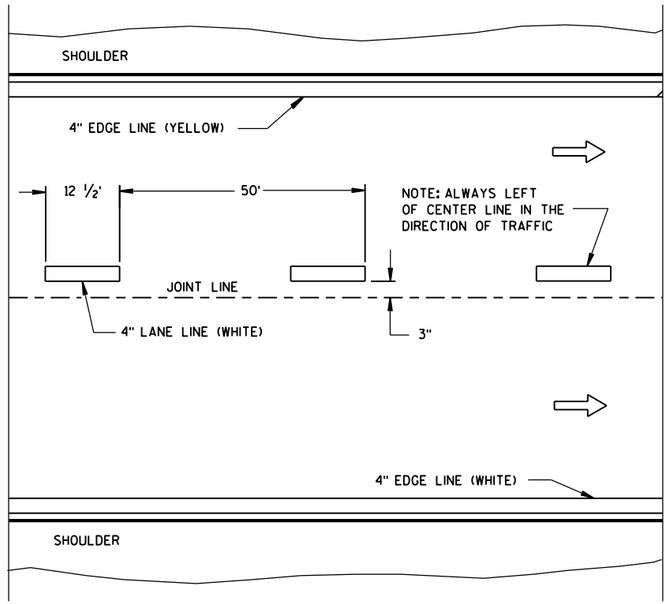
S.D.D. 15 C 8-16f

6

S.D.D. 15 C 8-16f



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

(1) NO PASSING ZONE W14-3 SIGN SHALL BE LOCATED WITHIN 50 FEET OF THE "T" MARKING.

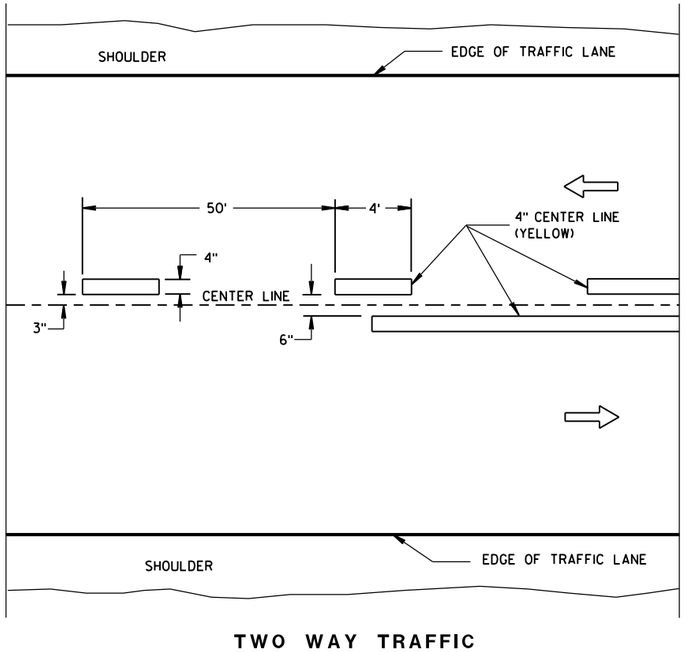
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

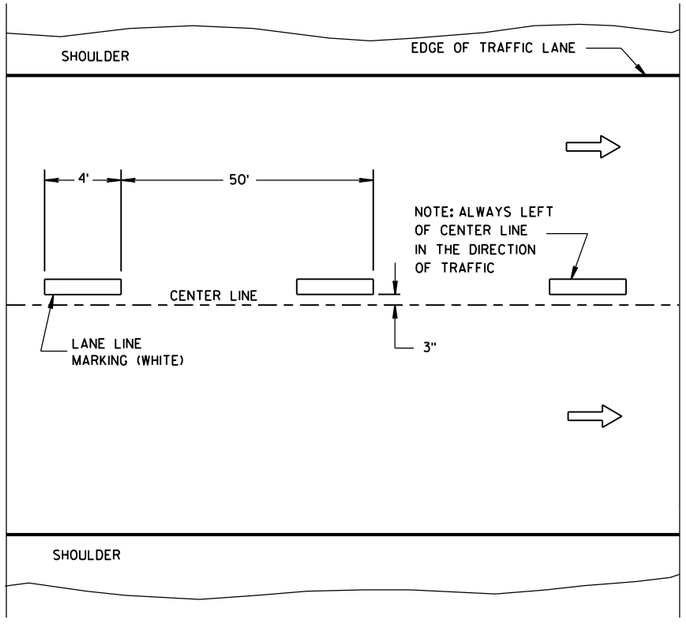
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

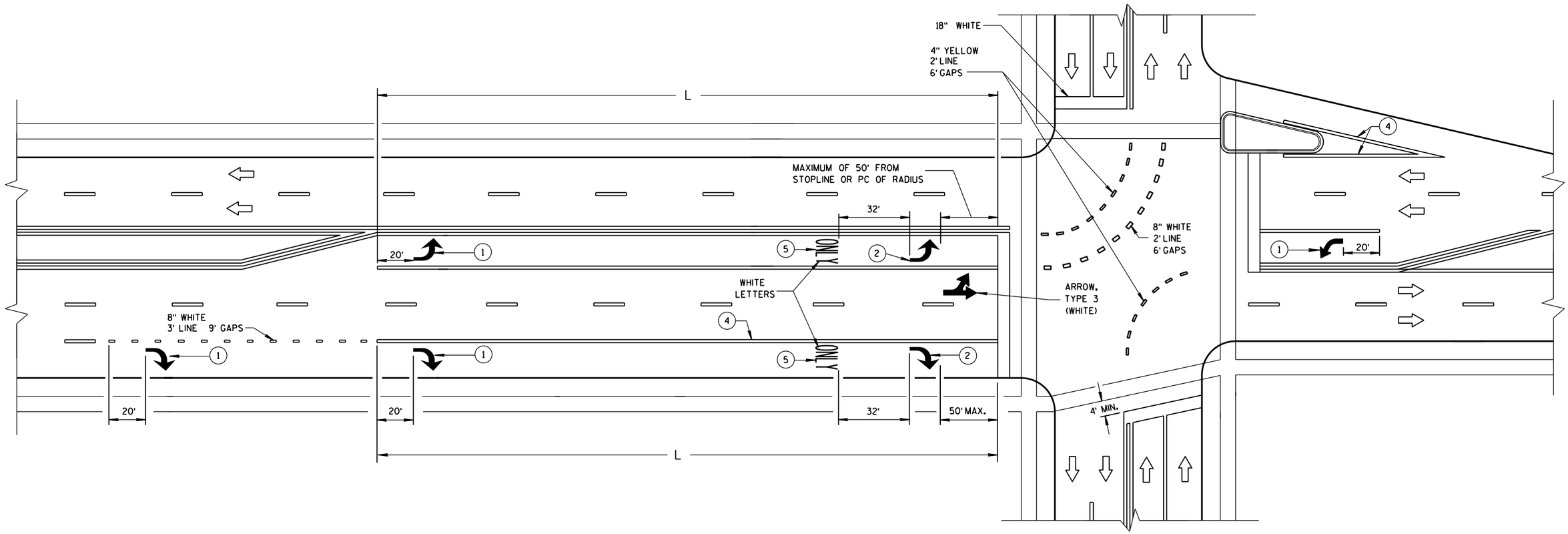
LONGITUDINAL MARKING (MAINLINE)

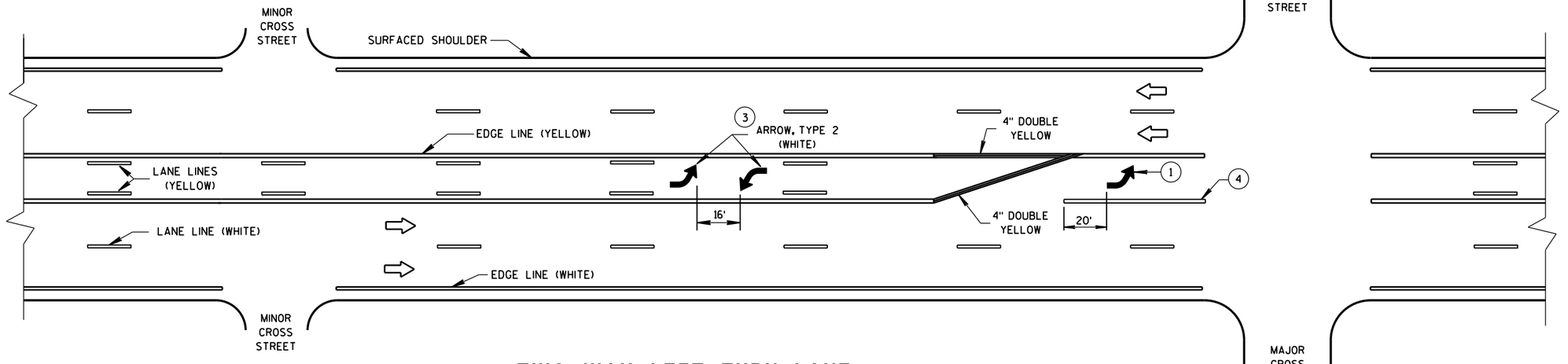
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]INEER
FHWA

S.D.D. 15 C 8-17a

S.D.D. 15 C 8-17a





GENERAL NOTES

(1) REQUIRED ARROW, TYPE 2 (WHITE).

(2) REQUIRED ARROW, TYPE 2 (WHITE) WHEN L IS GREATER THAN 78 FEET AND LESS THAN OR EQUAL TO 166 FEET.

(3) A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

(4) 8" WHITE

(5) REQUIRED WORD ONLY WHEN L IS GREATER THAN 166 FEET.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

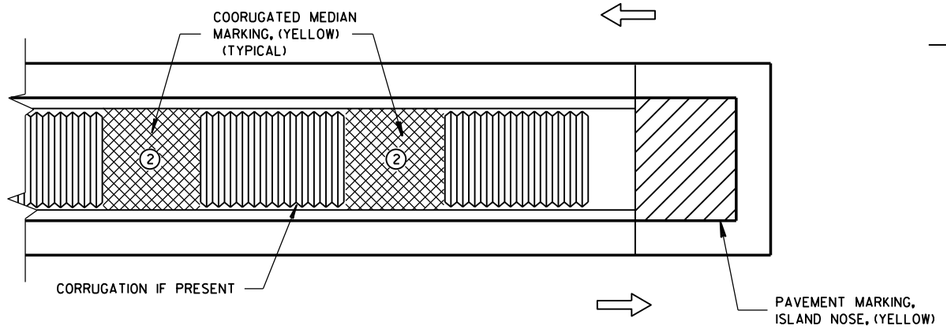
L = LENGTH OF TURN BAY

TWO WAY LEFT TURN LANE

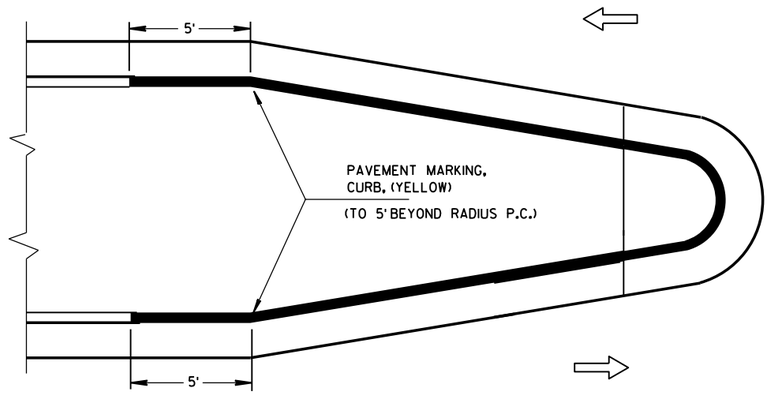
PAVEMENT MARKING
(TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

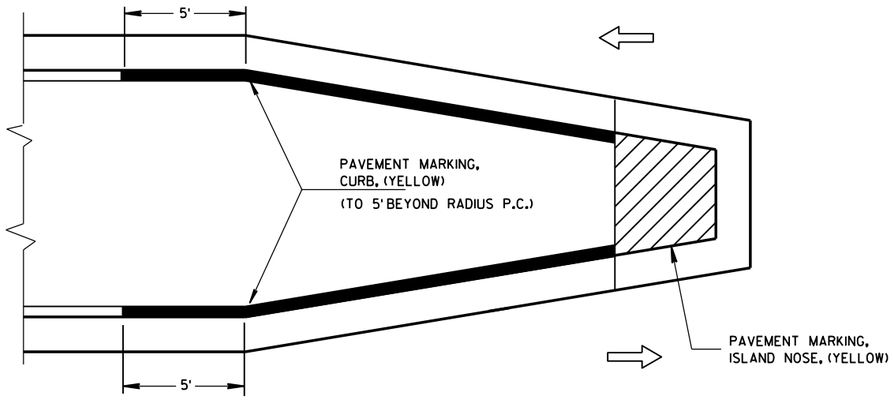
S.D.D. 15 C 8-17b



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

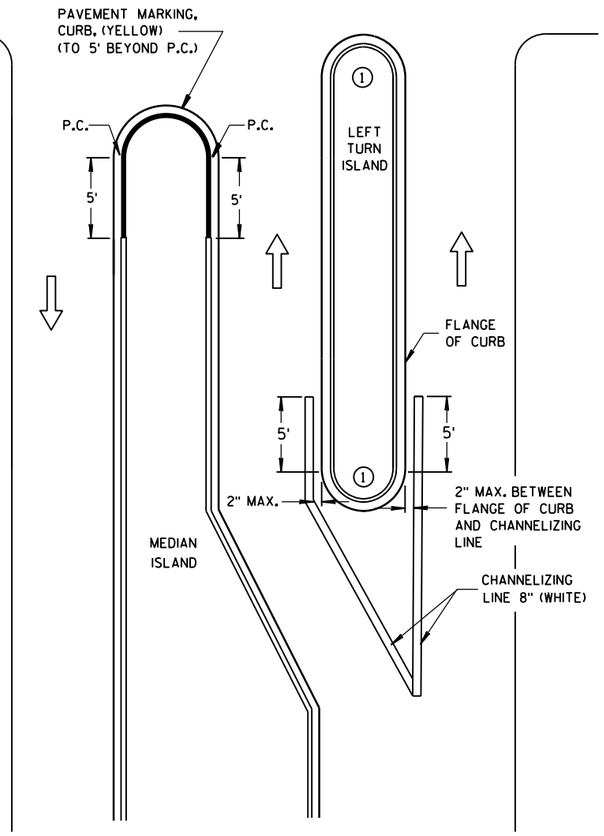


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

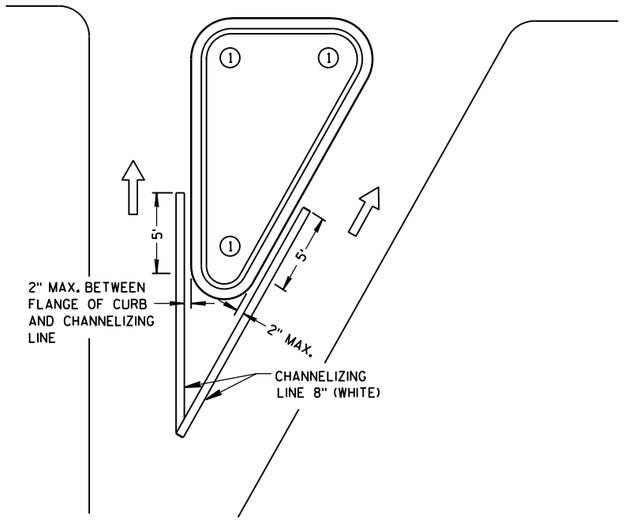


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

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

PAVEMENT MARKING
(ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 C 8-17c

6

S.D.D. 15 C 8-17c

LEGEND

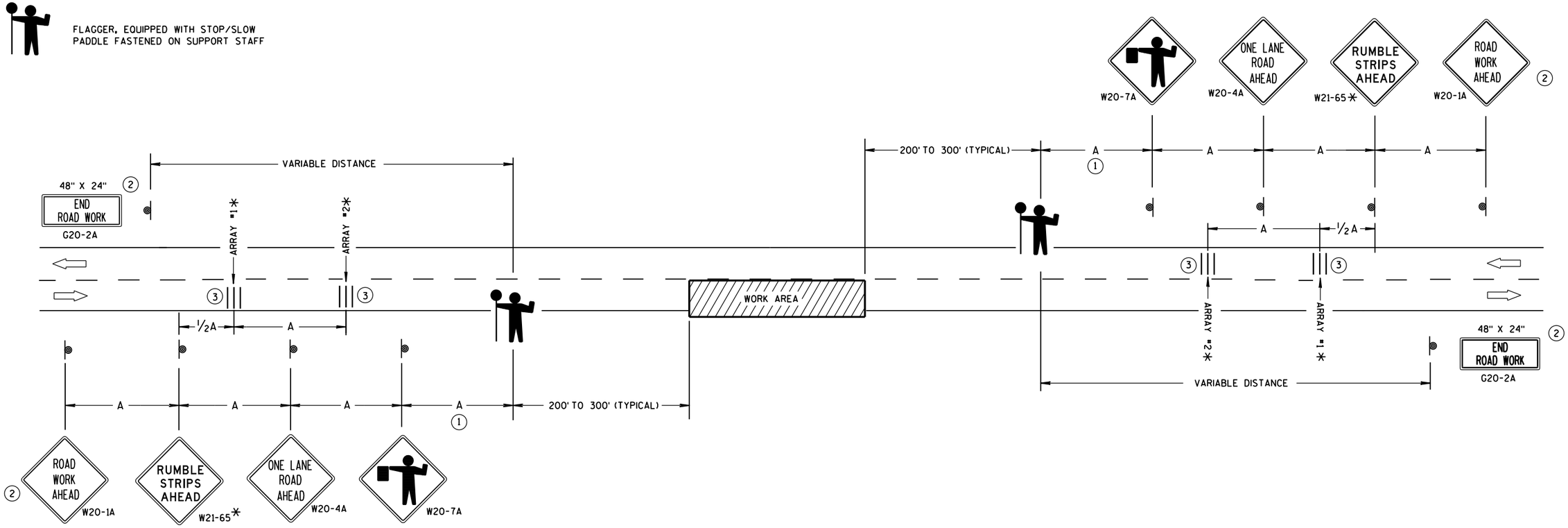
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



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



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

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.

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

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.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

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, REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 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.

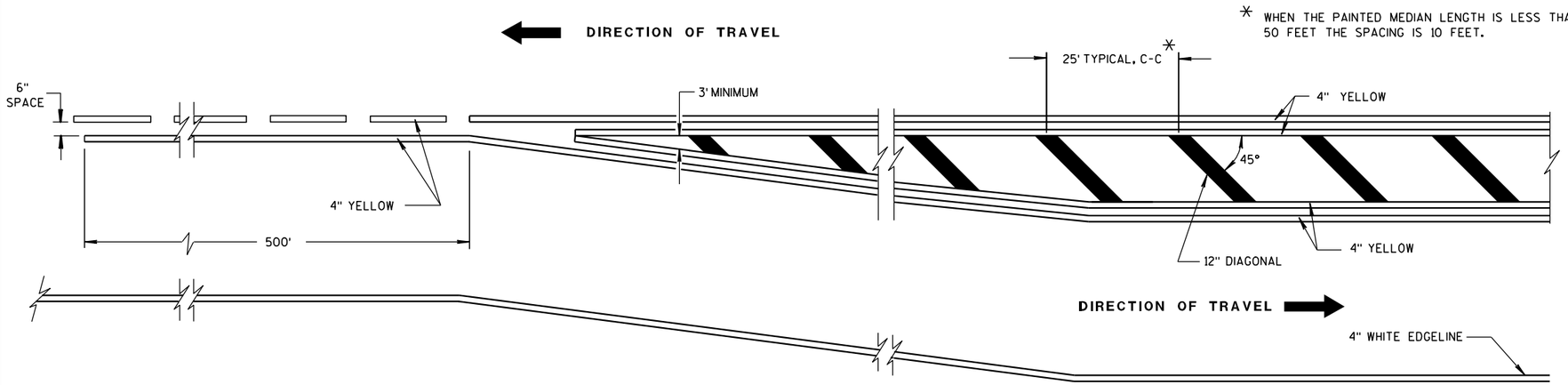
(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December, 2016 — /S/ Andrew Heldtke
DATE — WORK ZONE ENG
FHWA

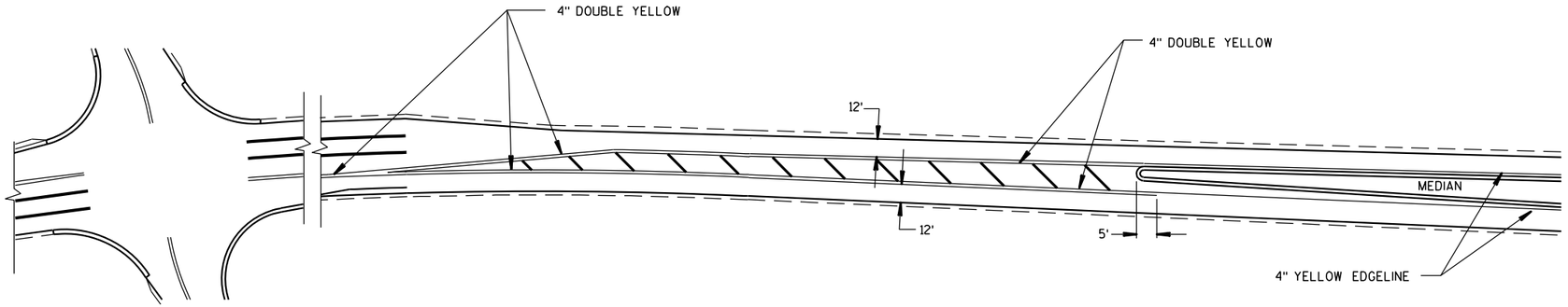
6
S.D.D. 15 C 12-5



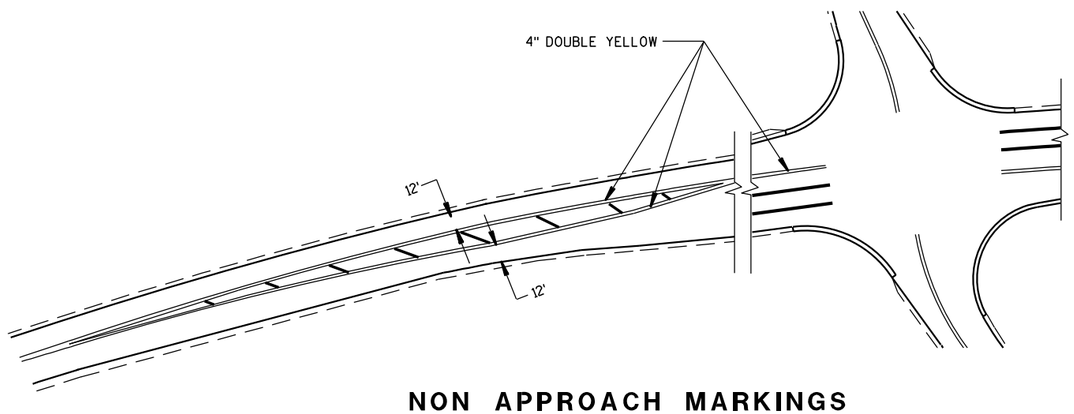
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

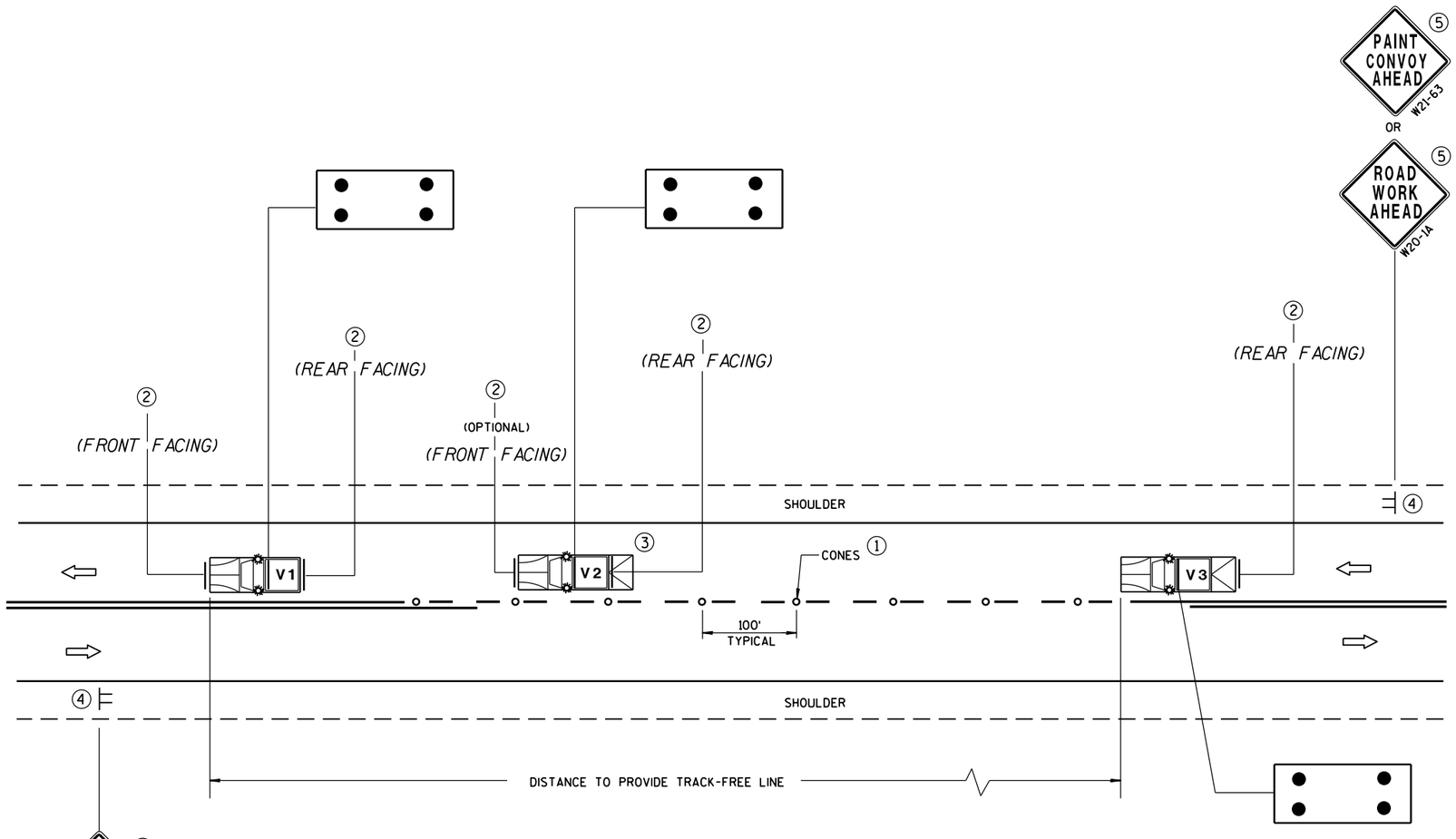
MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER 140 IGN
FHWA	

6

S.D.D. 15 C 18-3

6

S.D.D. 15 C 18-3



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

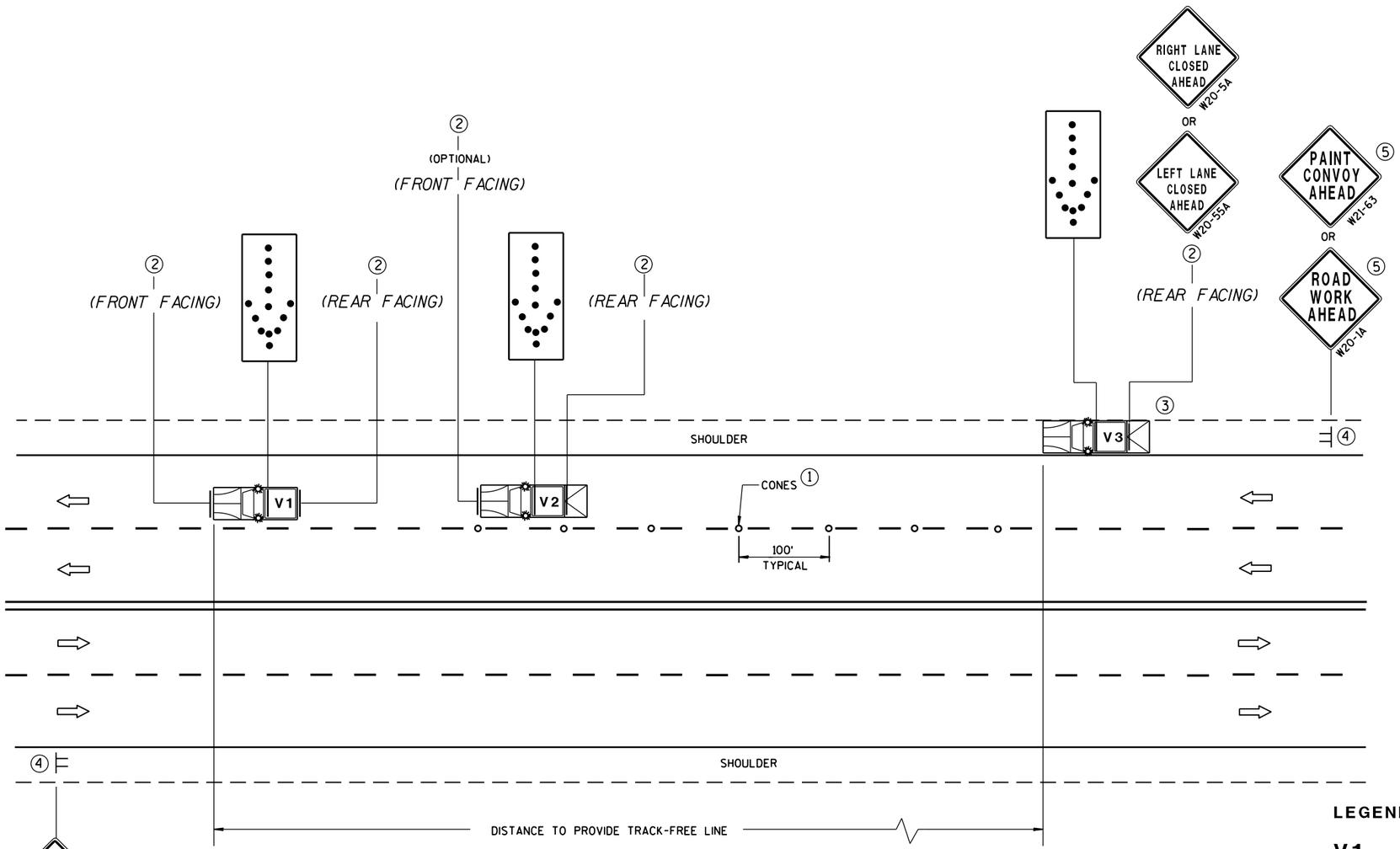
(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
⊢	SIGN ON TEMPORARY SUPPORT
⇨	DIRECTION OF TRAFFIC
o	CONES
⁘	FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
June 2016 DATE	/S/ Peter Amakobe Atepe STATEWIDE WORK ZON SAFETY ENGINE
FHWA	



PAINT CONVOY AHEAD W21-63
OR
ROAD WORK AHEAD W20-1A

MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE UNDIVIDED ROADWAY

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE OR LANELINE MARKING FOR MULTILANE UNDIVIDED ROADWAYS.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1	LEAD VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE WITH TMA
TMA	TRUCK-MOUNTED ATTENUATOR
	SIGN ON TEMPORARY SUPPORT
	DIRECTION OF TRAFFIC
	CONES
	FLASHING ARROW PANEL (MERGE)

MOVING PAVEMENT MARKING OPERATION
MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZON SAFETY ENGINE
FHWA

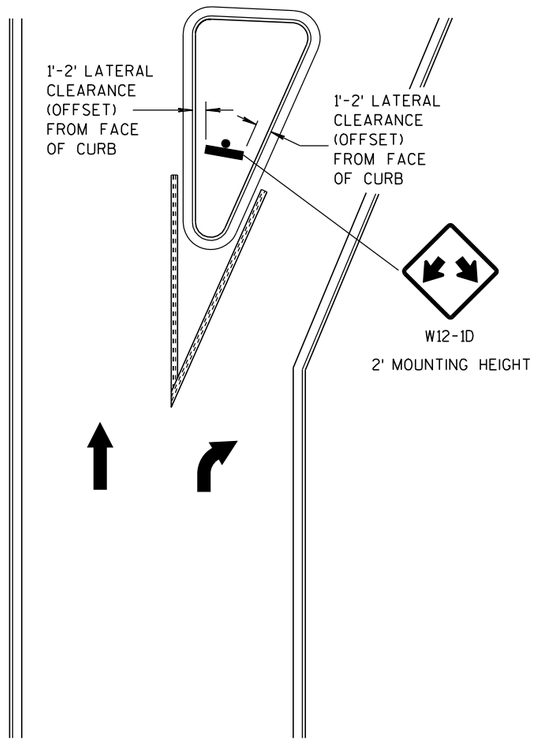
6

S.D.D. 15 C 19-4b

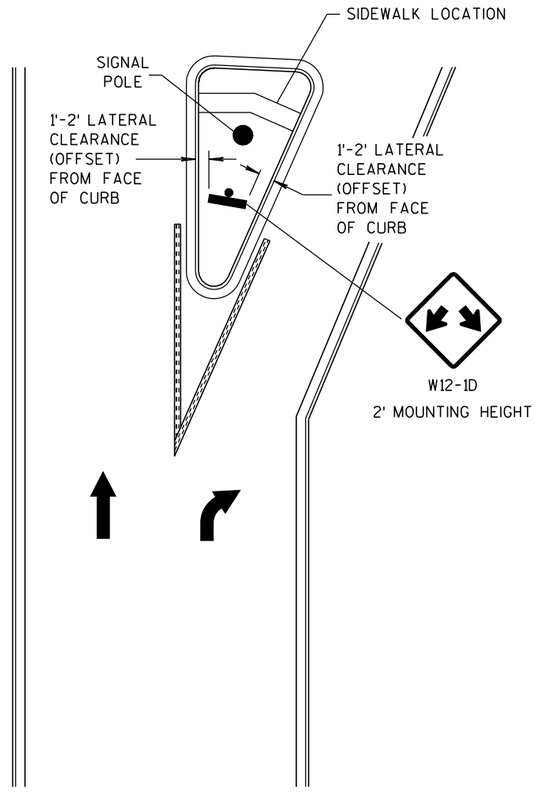
GENERAL NOTE

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

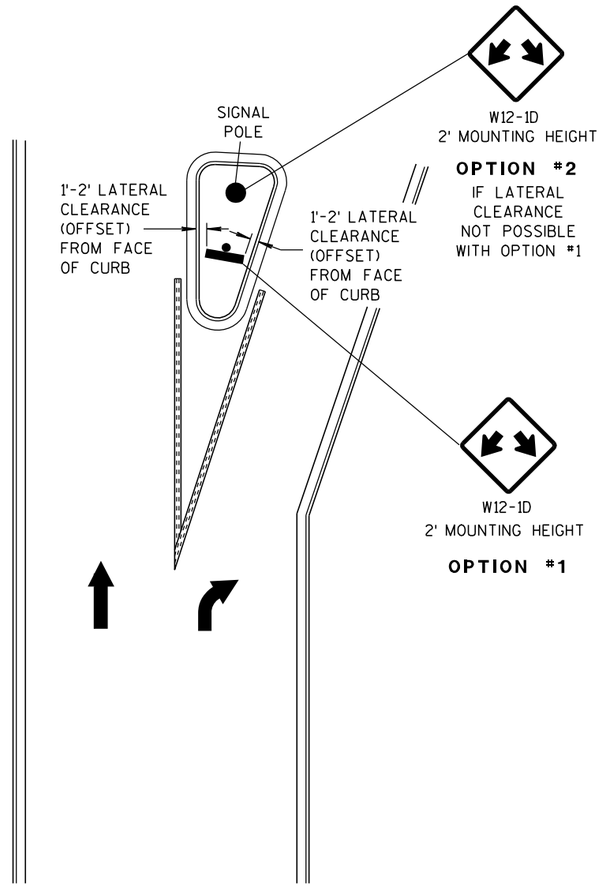
SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.



LARGE RIGHT TURN ISLAND



LARGE RIGHT TURN ISLAND
WITH SIGNAL POLE



SMALL RIGHT TURN ISLAND

DOUBLE ARROW WARNING SIGN PLACEMENT

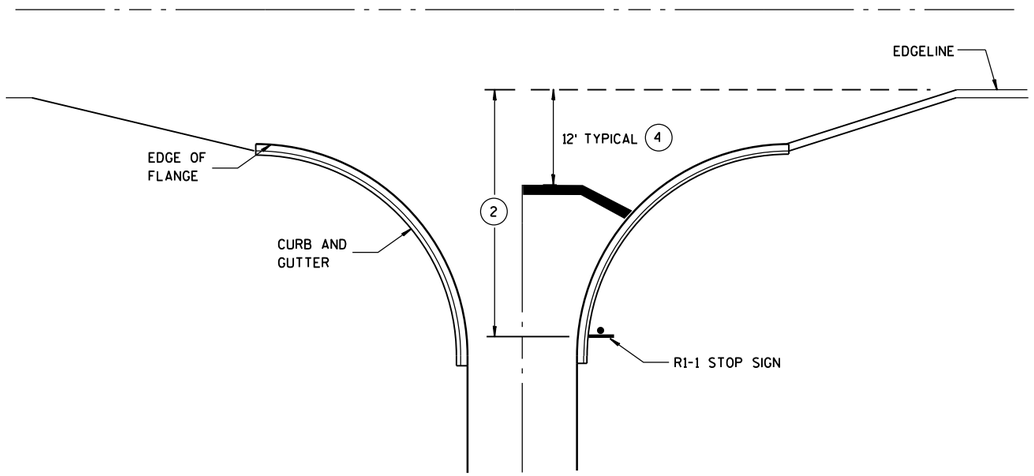
DOUBLE ARROW WARNING SIGN PLACEMENT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
10-22-08 DATE	/S/ Thomas N. Nothem STATE TRAFFIC ENGINEER
FHWA	

6

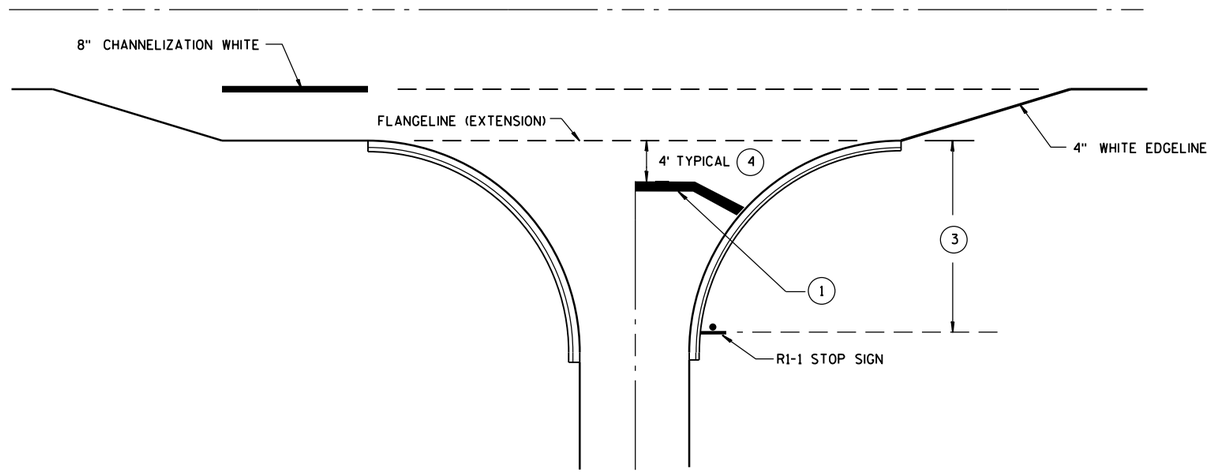
S.D.D. 15 C 27-1

6

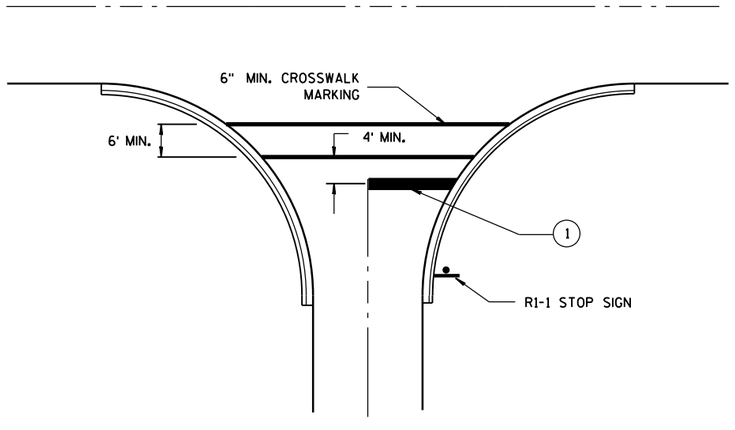
S.D.D. 15 C 27-1



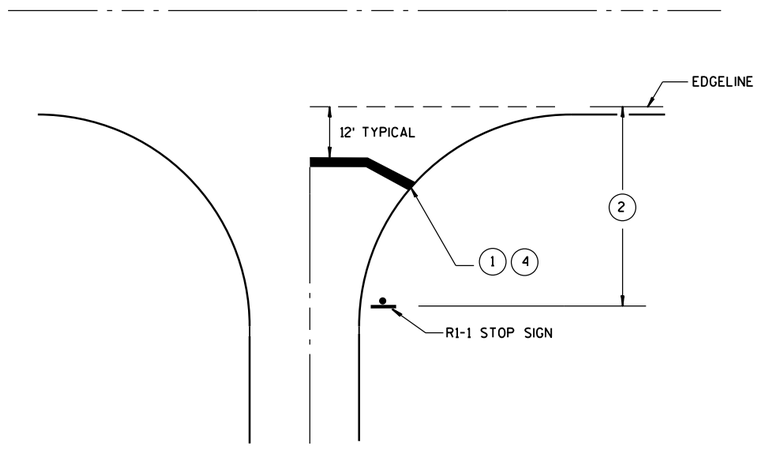
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-2016
DATE

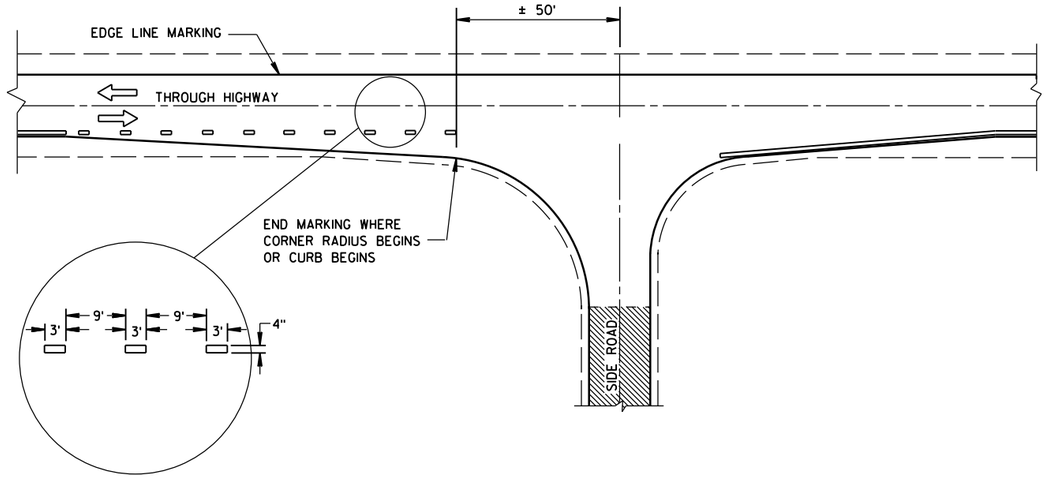
/S/ Matthew R. Rauch
STATE SIGNING AND MAR[illegible]NEER

FHWA

6

S.D.D. 15 C 33-2

S.D.D. 15 C 33-2



MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

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

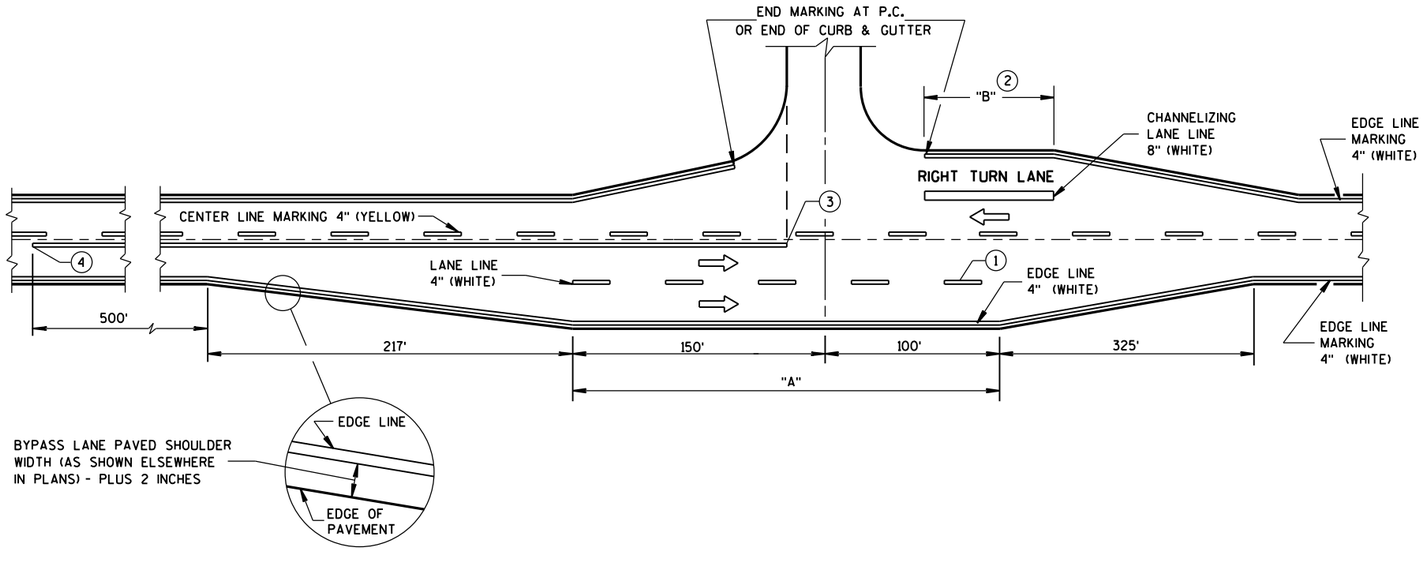
(1) WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.

(2) WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.

(3) BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.

(4) BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



MAJOR INTERSECTIONS

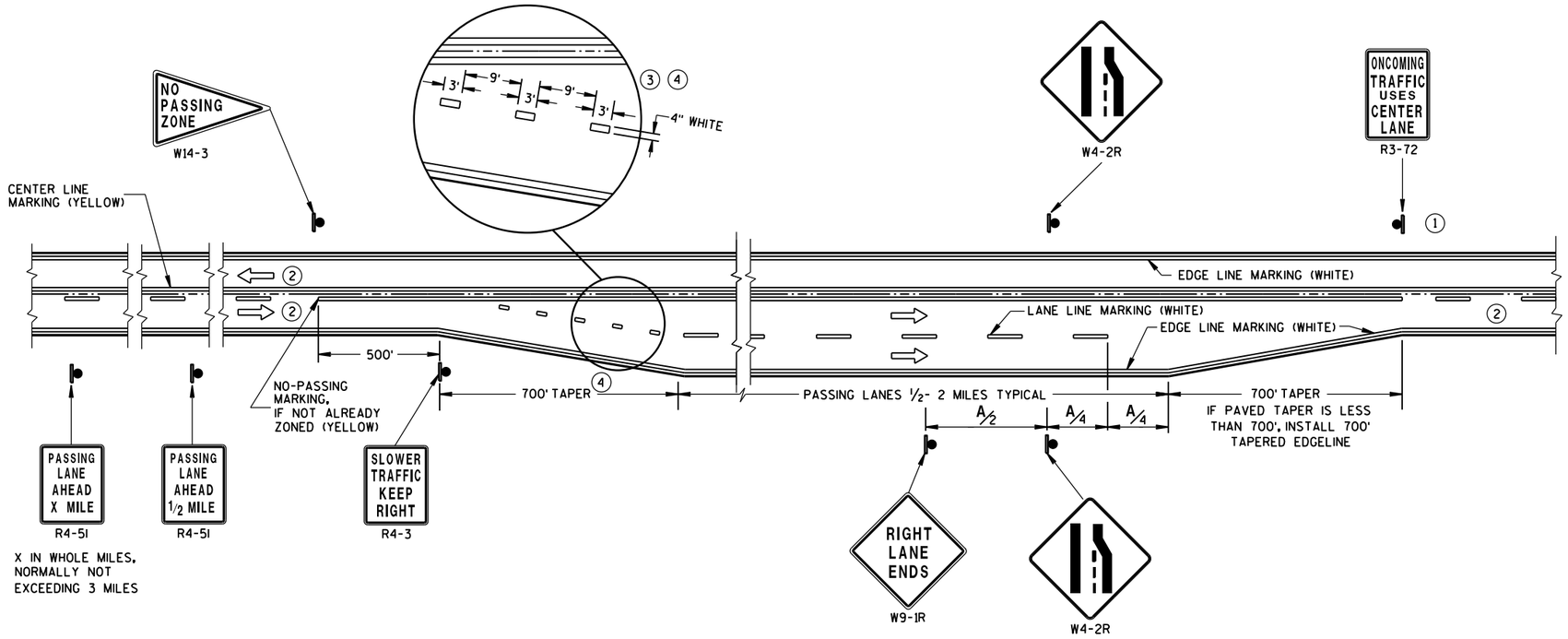
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)

PAVEMENT MARKING
(INTERSECTIONS)

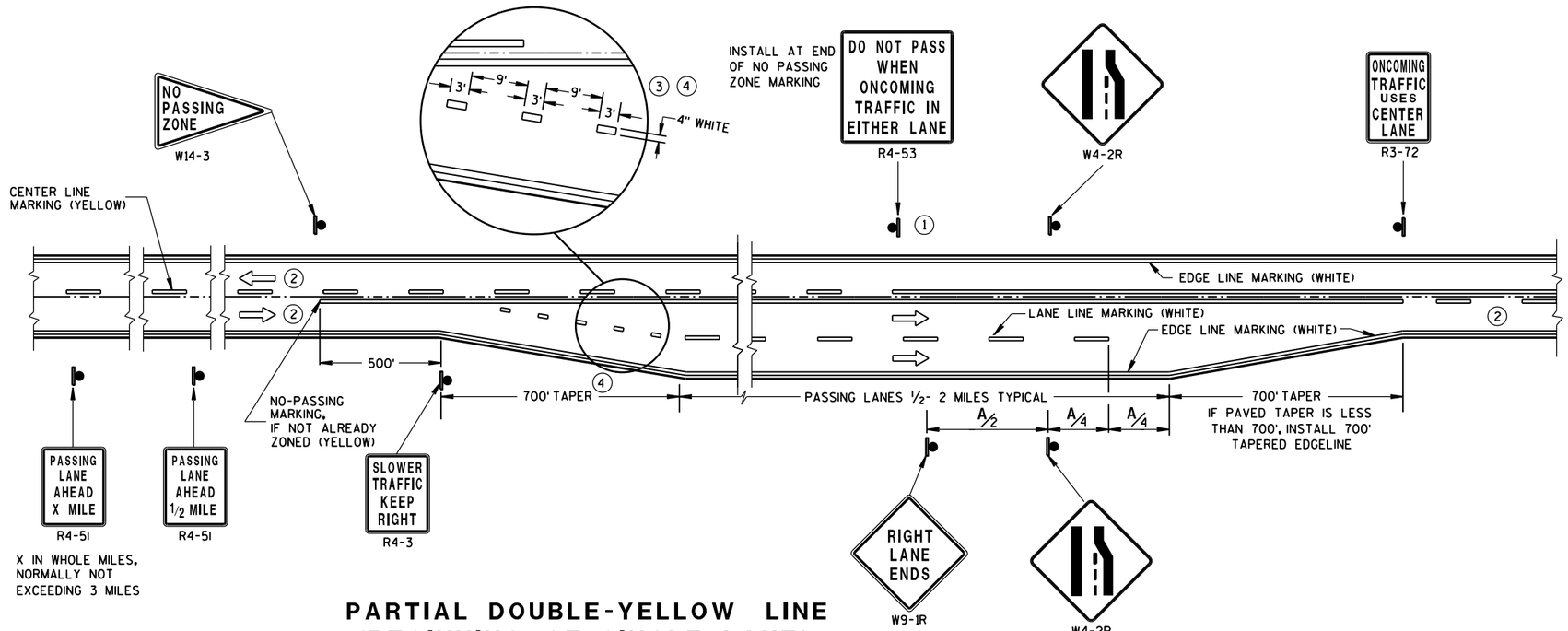
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 C 35-1a



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



PARTIAL DOUBLE-YELLOW LINE
(BEGINNING OF SINGLE 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

6

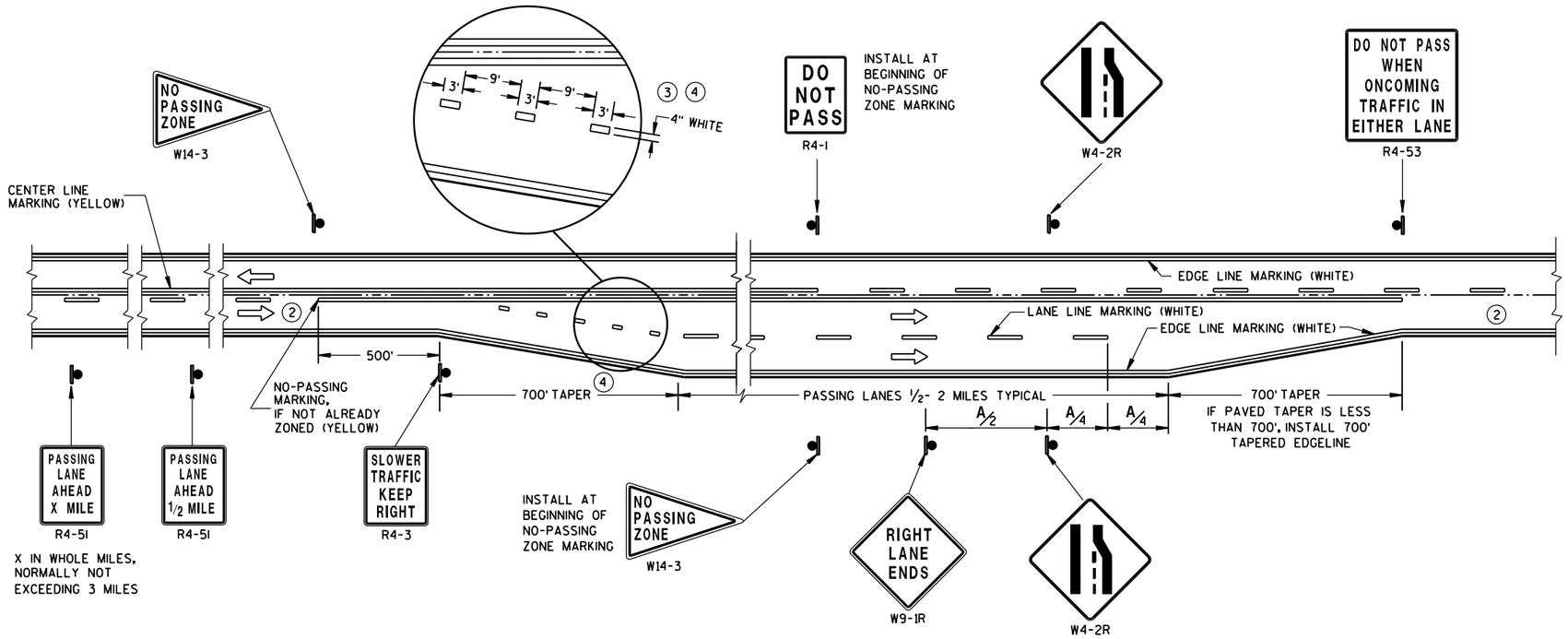
S.D.D. 15 C 35-1b

PAVEMENT MARKING & SIGNING (CLIMBING LANE & PASSING LANE)

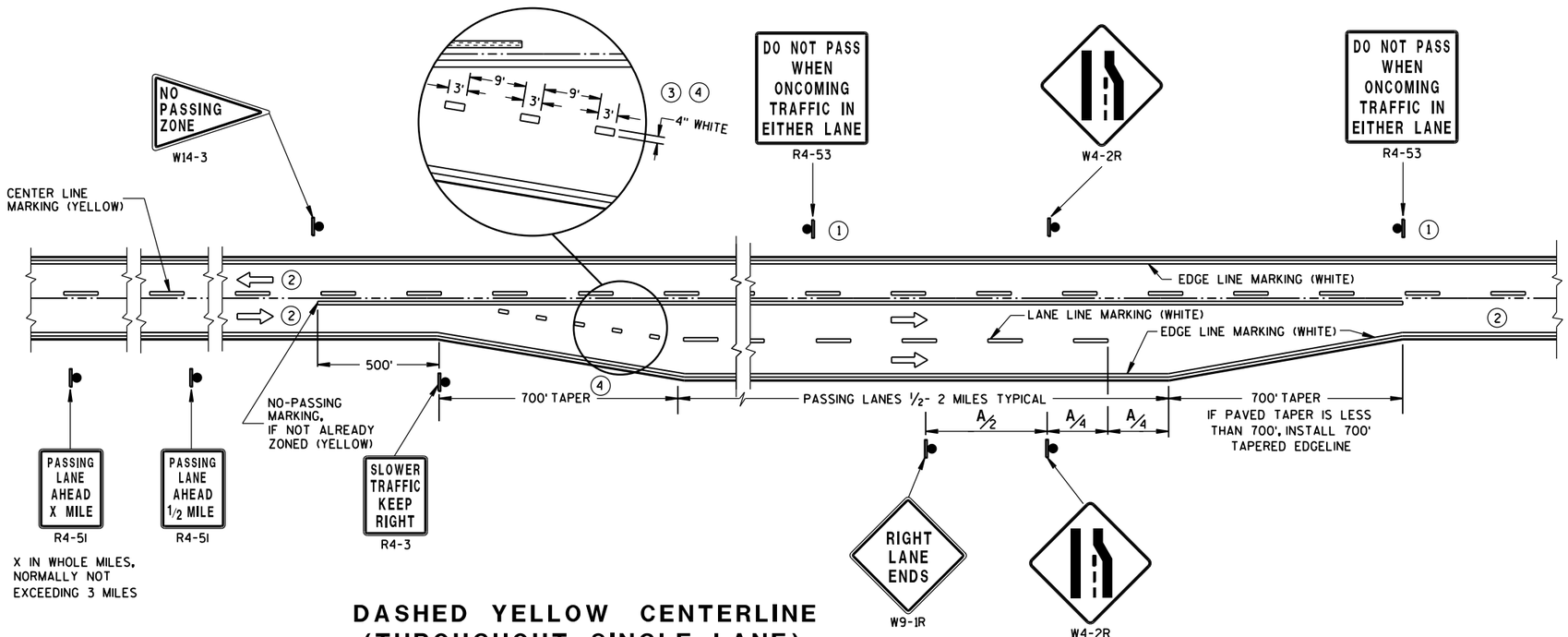
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 C 35-1b



SOLID DOUBLE-YELLOW LINE (END OF SINGLE LANE)



DASHED YELLOW CENTERLINE (THROUGHOUT SINGLE LANE)

GENERAL NOTES

1. SIGN SHALL BE REPEATED AT ONE 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

APPROVED
Sept., 2016 — /S/ Matthew R. Rauch
DATE — STATE SIGNING AND MAR[illegible] ENGINEER
FHWA

6

S.D.D. 15 C 35-1c

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMENENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

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

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

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

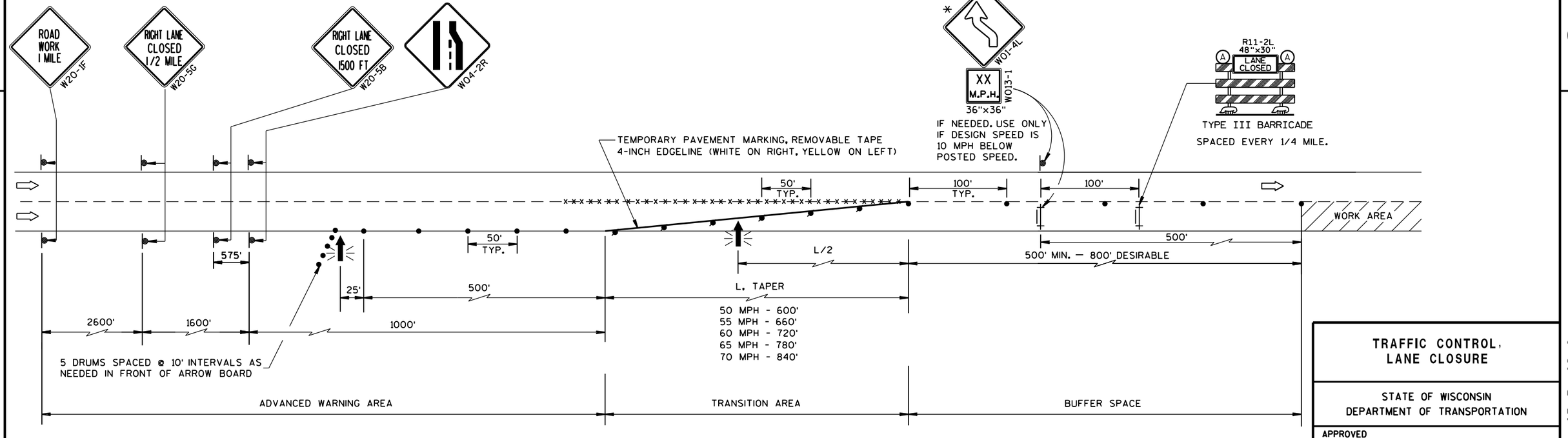
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



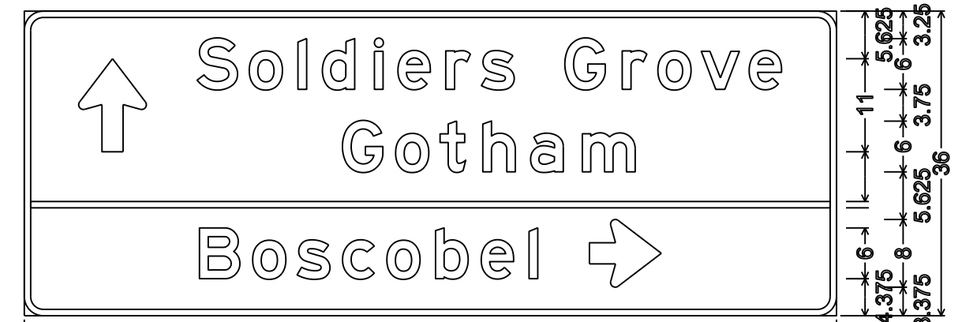
TRAFFIC CONTROL, LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

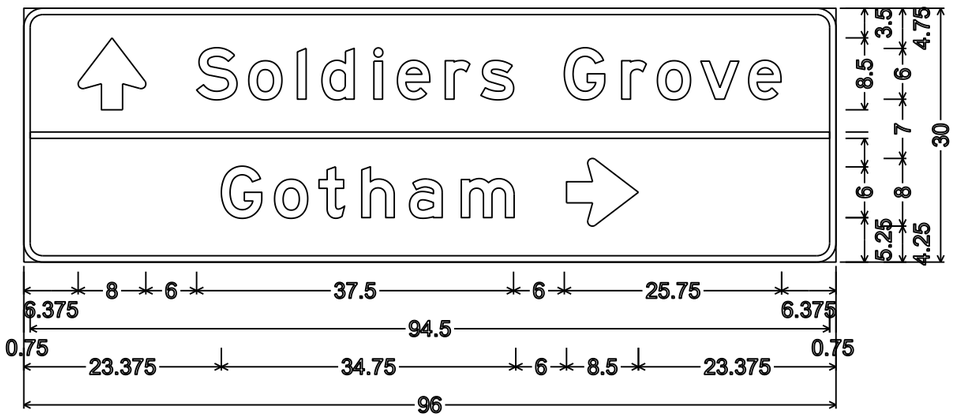
APPROVED
March 2016 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER
FHWA

6

S.D.D. 15 D 12-6a



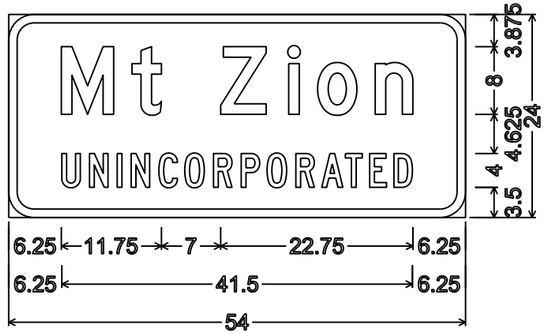
D1-3; 2.250" Radius, 0.750" Border



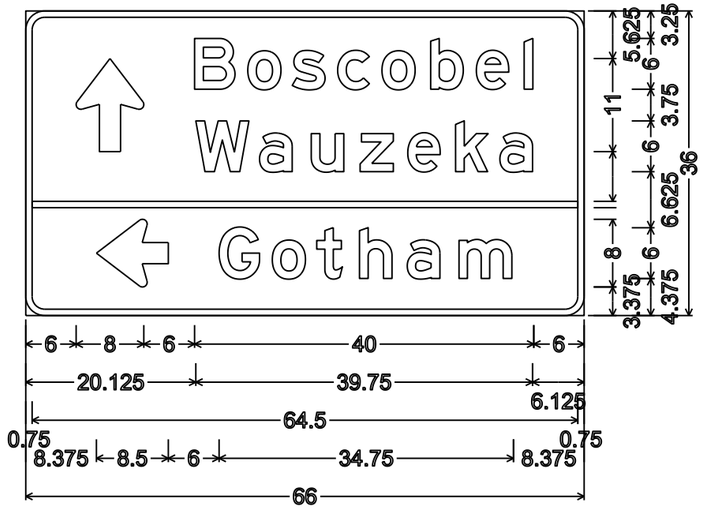
D1-2; 2.250" Radius, 0.750" Border



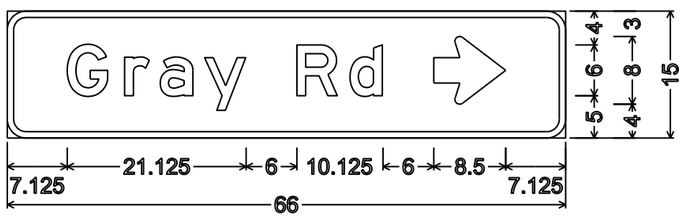
2.250" Radius, 0.750" Border



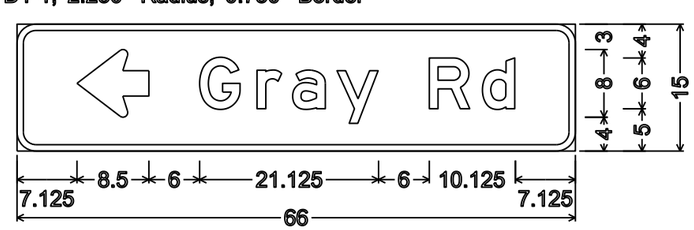
I2-3;
3.000" Radius, 1.000" Border,
"Mt" D; "Zion" D; "UNINCORPORATED" C



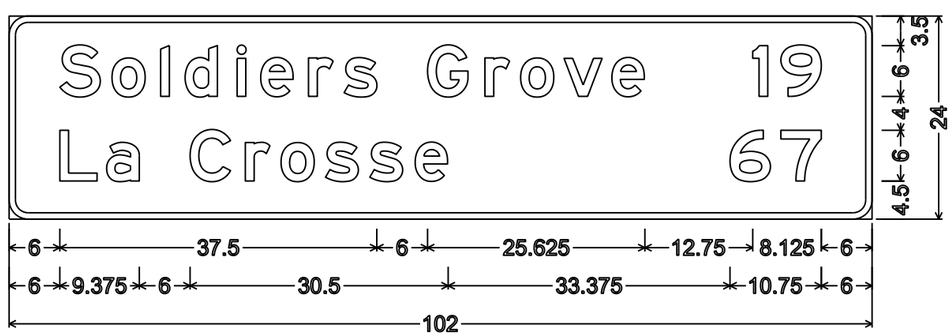
D1-3; 2.250" Radius, 0.750" Border



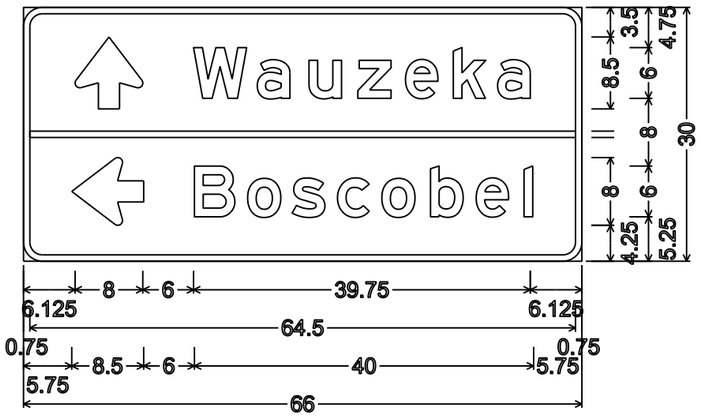
D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



D2-2; 2.250" Radius, 0.750" Border



D1-2; 2.250" Radius, 0.750" Border

NOTES

1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green except as noted
   Message - White
3. Message Series - E except as noted

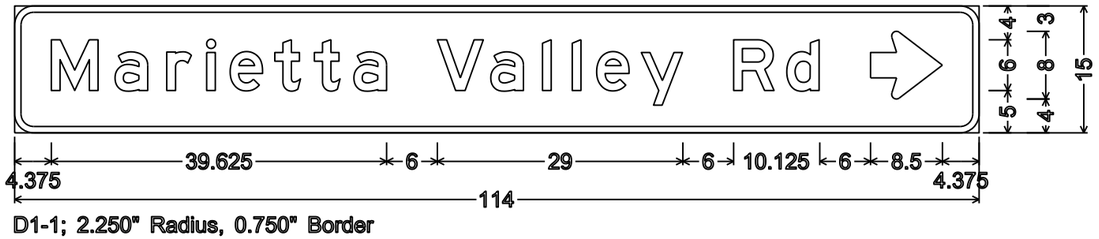
7

7

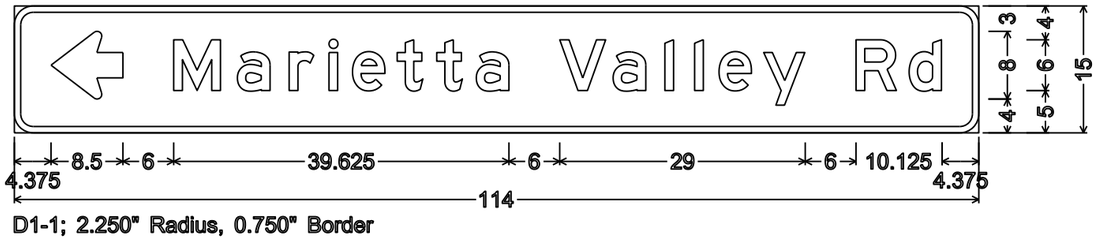
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET NO: 149	E

NOTES

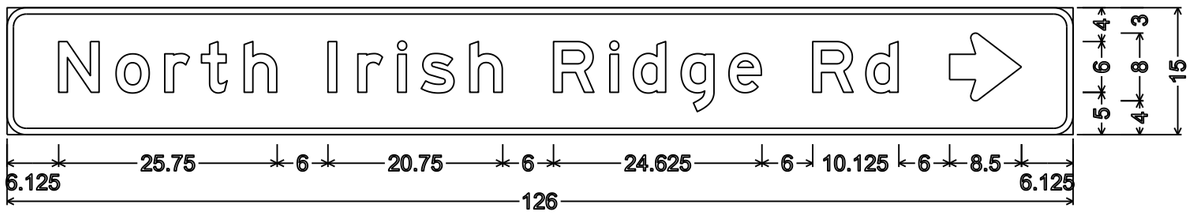
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green except as noted
   Message - White
3. Message Series - E except as noted



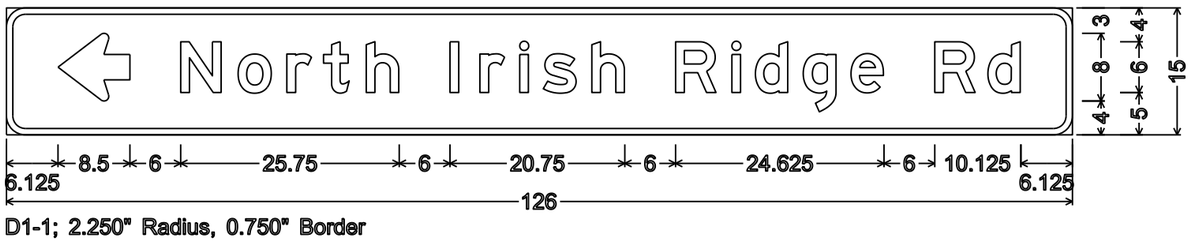
D1-1; 2.250" Radius, 0.750" Border



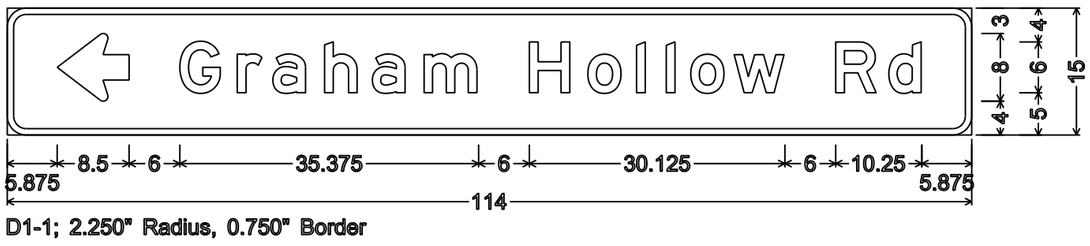
D1-1; 2.250" Radius, 0.750" Border



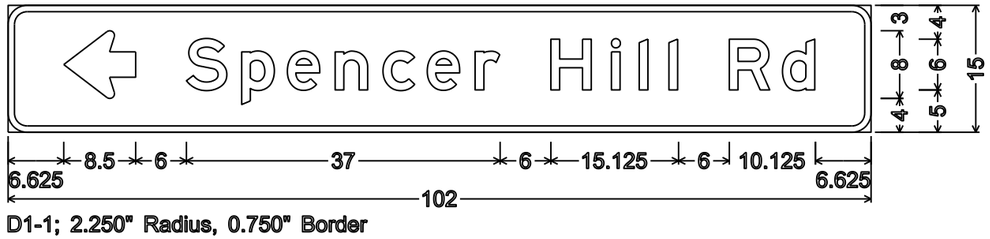
D1-1; 2.250" Radius, 0.750" Border



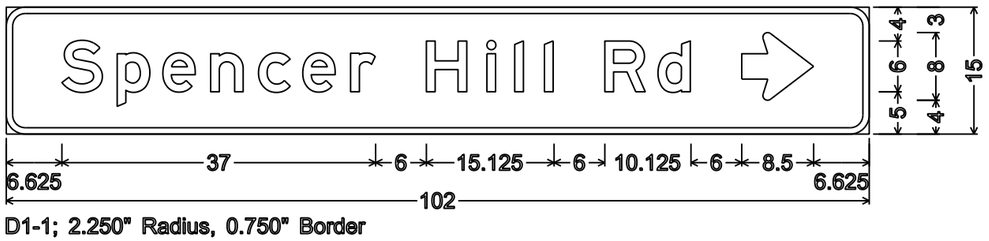
D1-1; 2.250" Radius, 0.750" Border



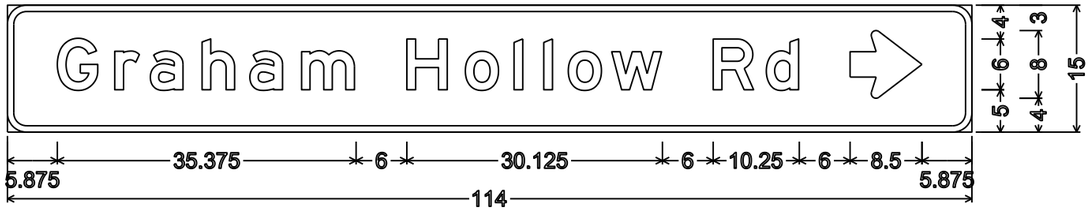
D1-1; 2.250" Radius, 0.750" Border



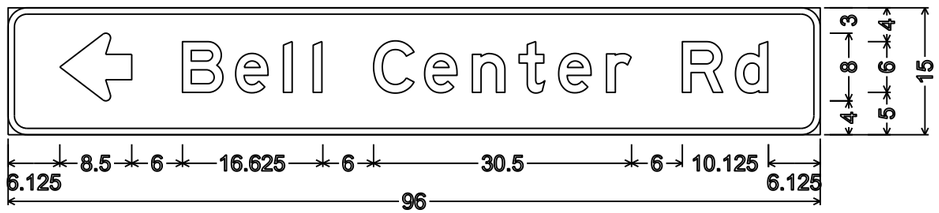
D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border

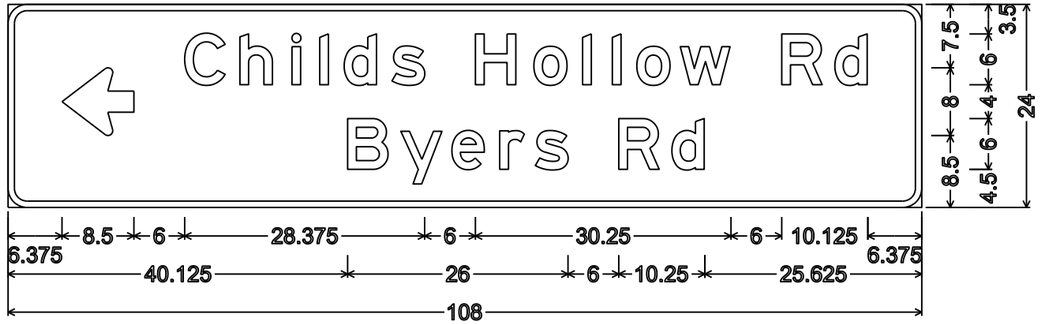
7

7

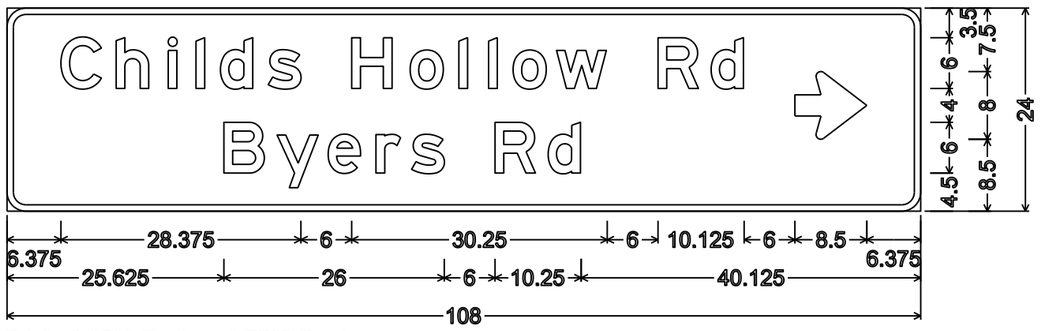
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET NO: 150	E

NOTES

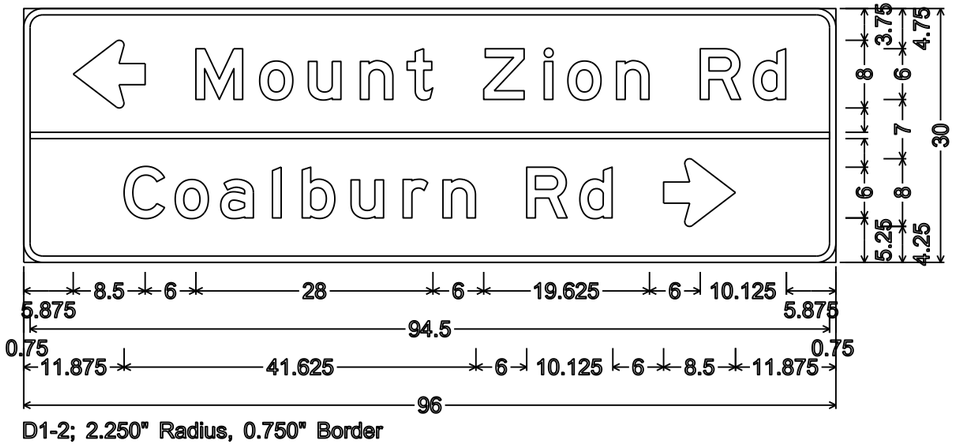
1. All Signs Type II - Type H Reflective
2. Color:
   Background - Green except as noted
   Message - White
3. Message Series - E except as noted



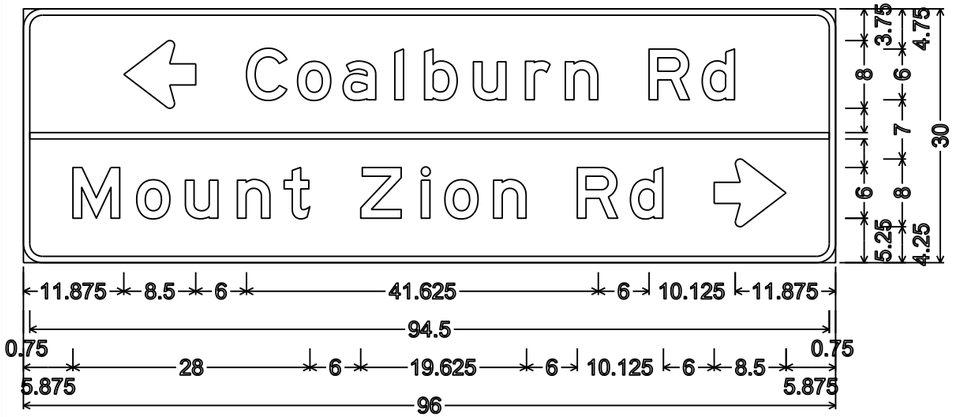
D1-2; 2.250" Radius, 0.750" Border



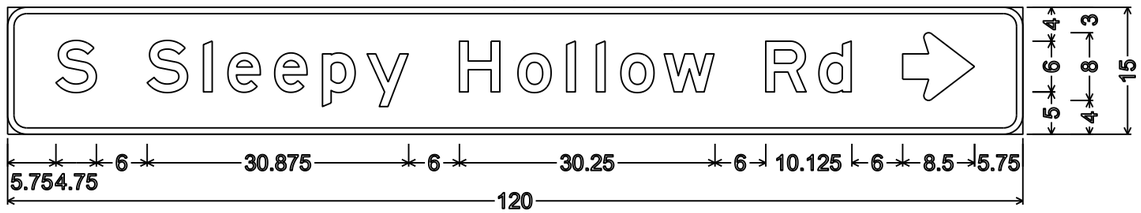
D1-2; 2.250" Radius, 0.750" Border



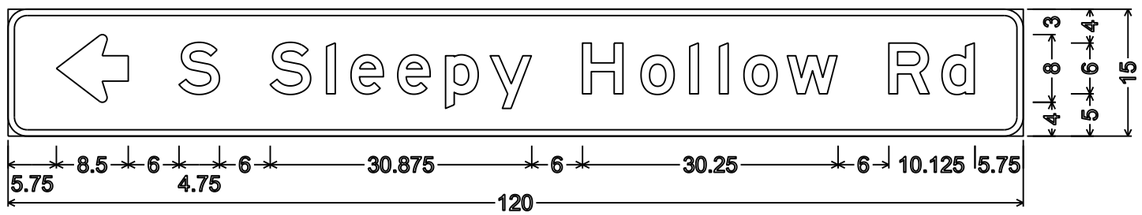
D1-2; 2.250" Radius, 0.750" Border



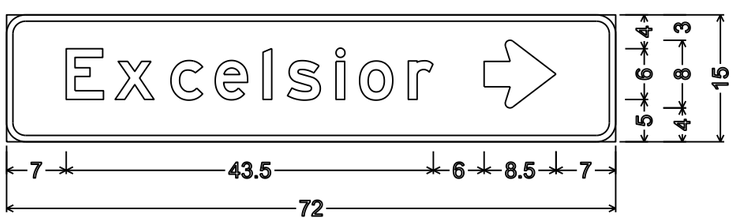
D1-2; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border



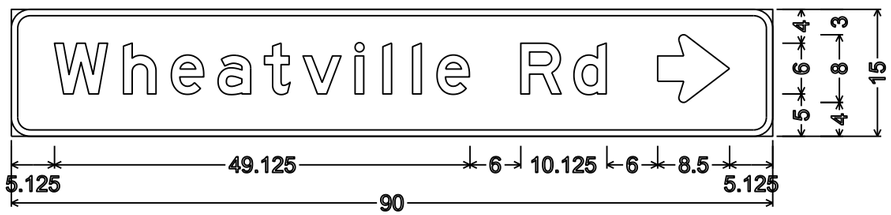
D1-1; 2.250" Radius, 0.750" Border



D1-1; 2.250" Radius, 0.750" Border, White on Green;



D1-1; 2.250" Radius, 0.750" Border



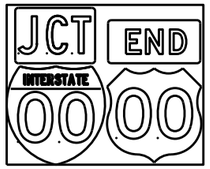
D1-1; 2.250" Radius, 0.750" Border

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	PERMANENT SIGNING	SHEET NO: 151	E

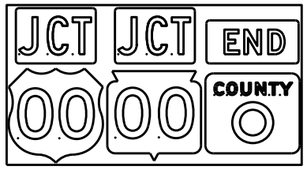
TYPICAL ASSEMBLIES



J1-1



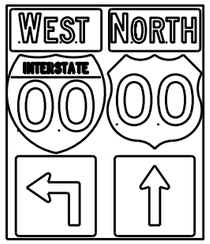
J1-2



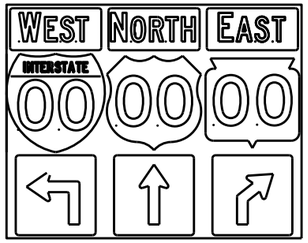
J1-3



J2-1



J2-2

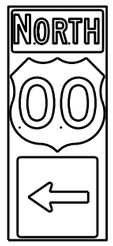


J2-3

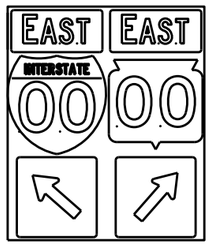


JV

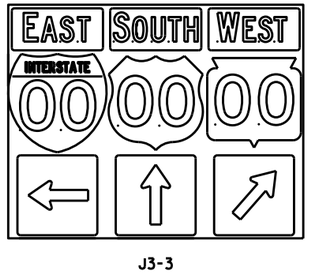
(Typical Vertical J-Assembly
See Note 10 and 11)



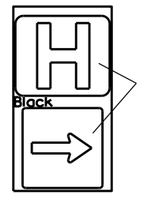
J3-1



J3-2



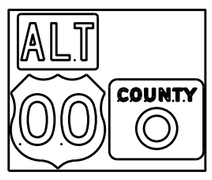
J3-3



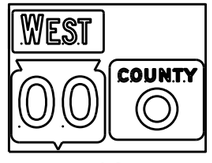
JH-1



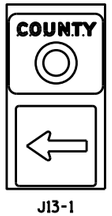
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

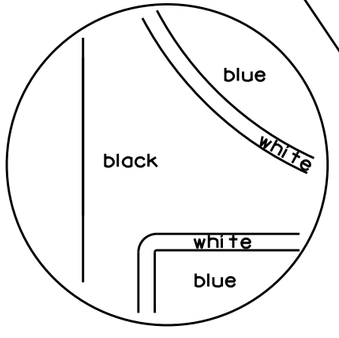


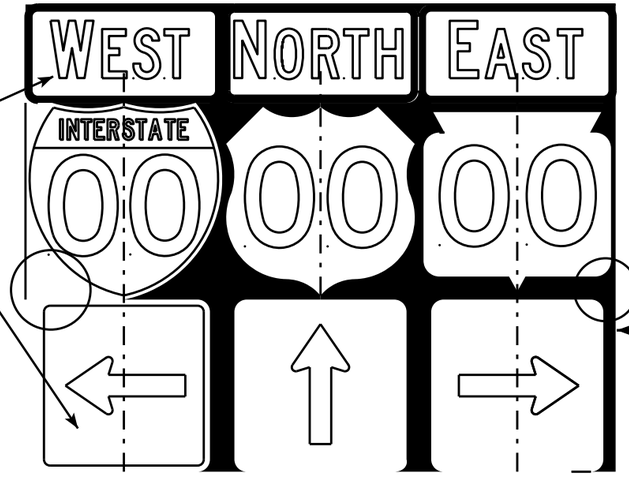
J23-1

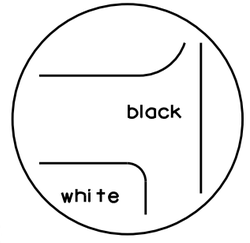


J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

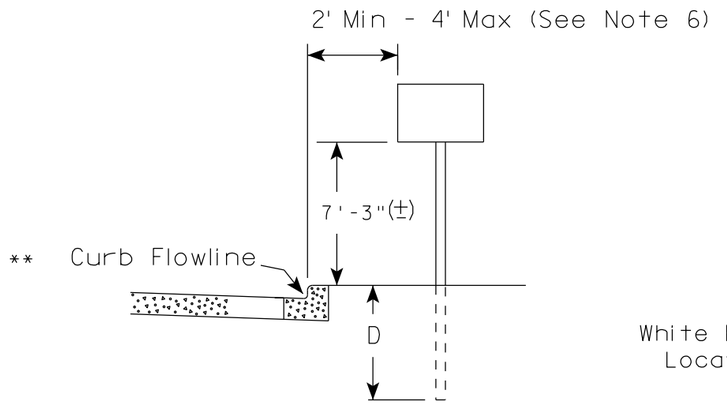
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

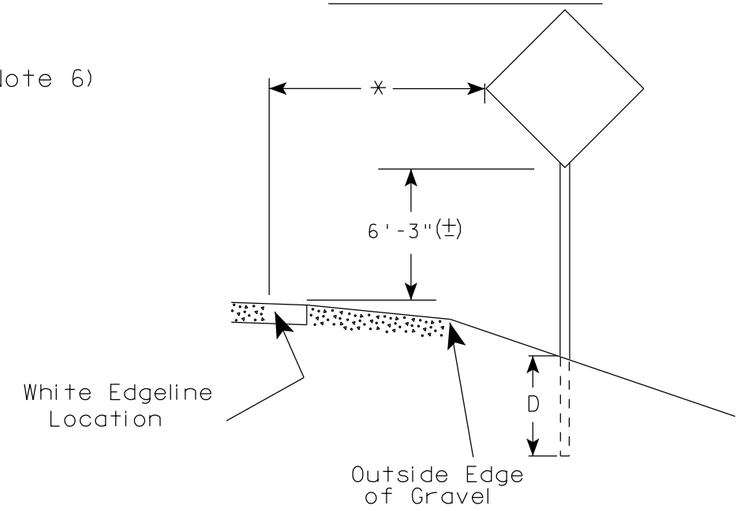
DATE 2/06/14 PL... A2-1S.8

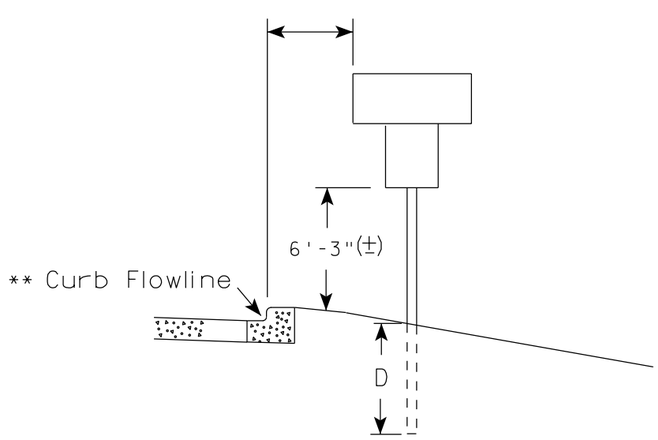
PROJECT NO: SHEET NO: E

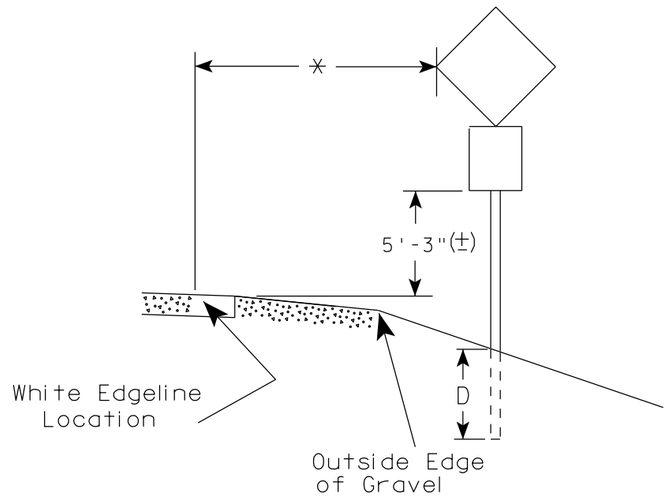
URBAN AREA



RURAL AREA (See Note 2)







GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

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

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

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

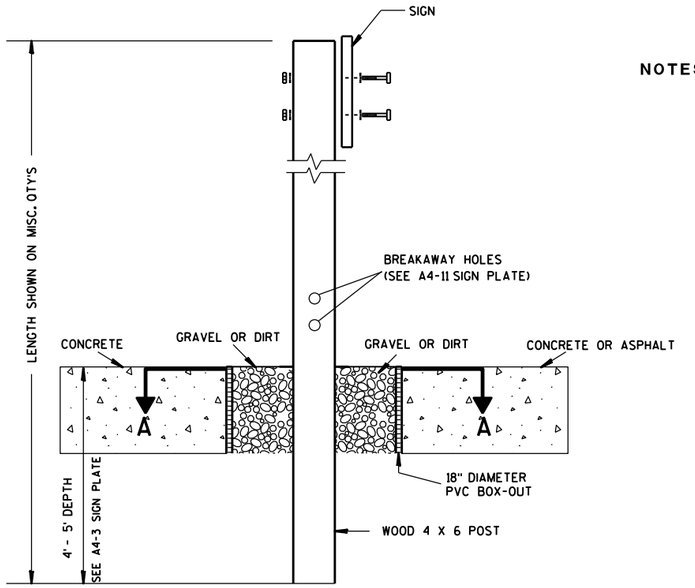
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

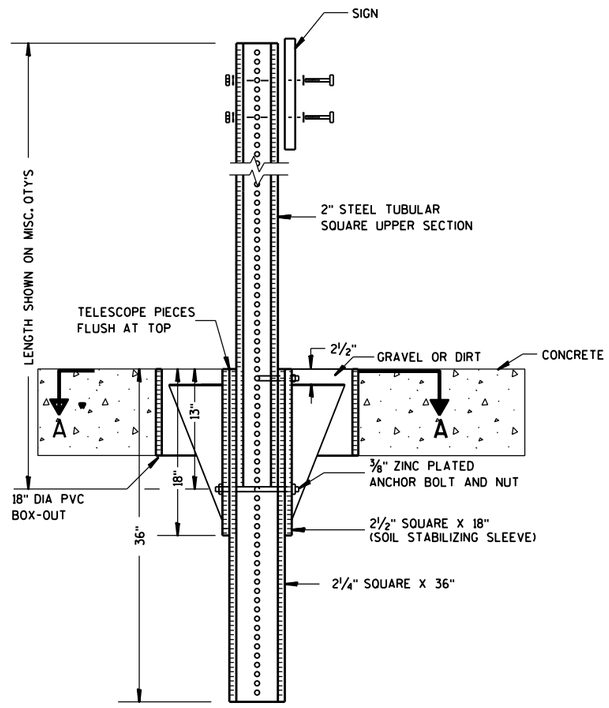
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

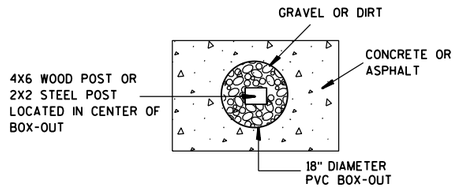
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

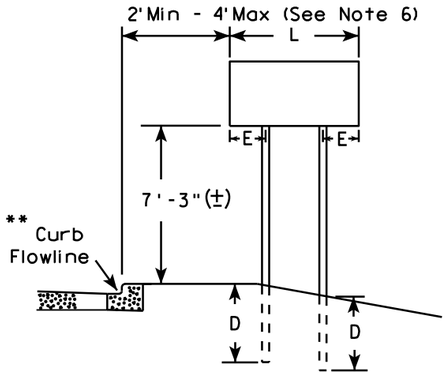
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

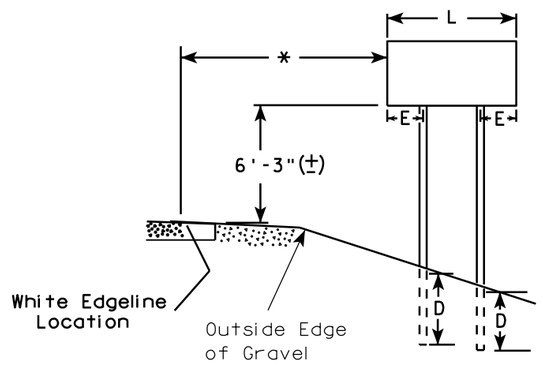
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

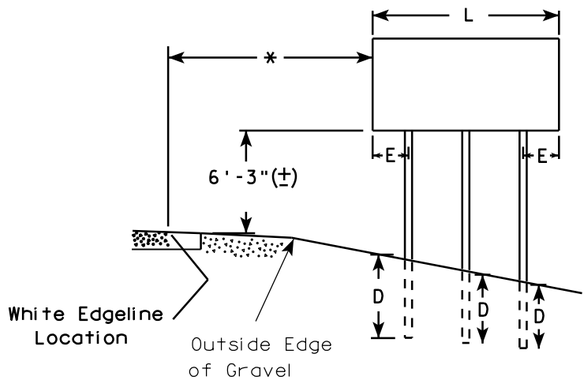
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

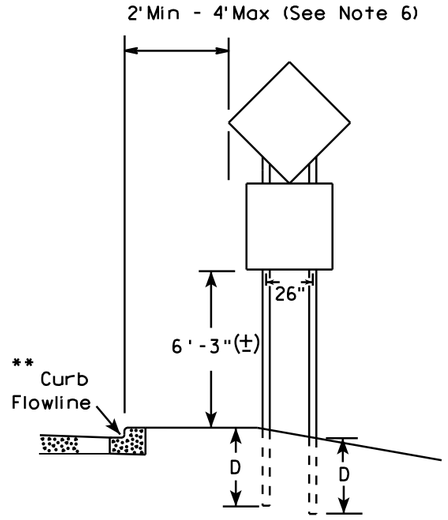
URBAN AREA



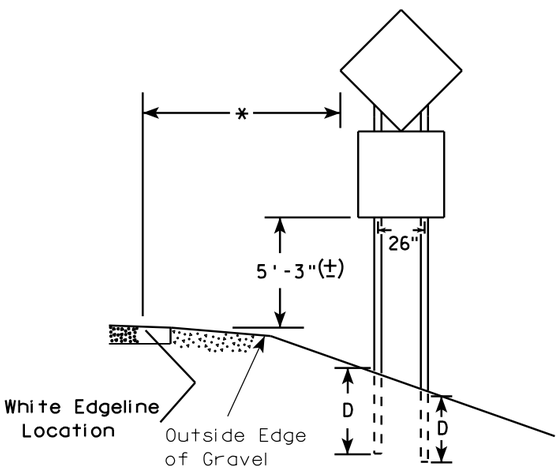
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

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

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

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

***

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

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

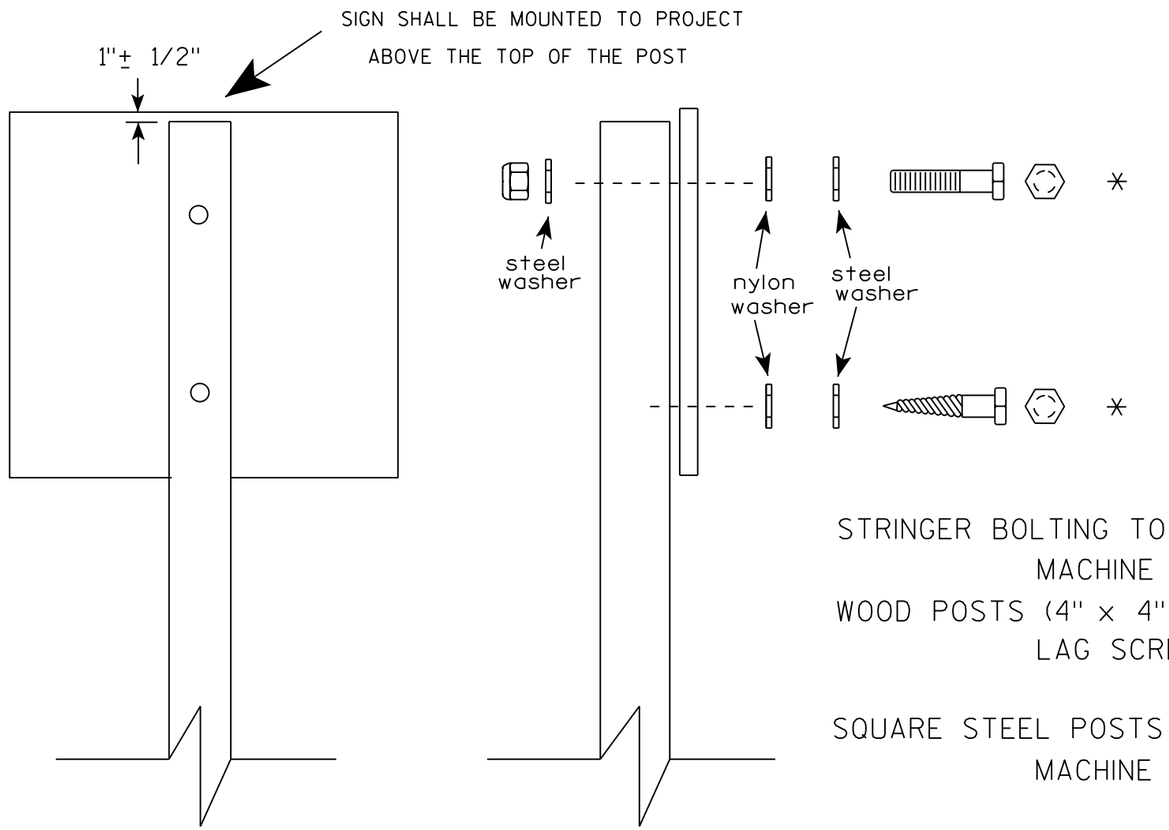
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4 155 14

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 23-JUL-2015 15:23 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 107.021305:1.000000

WISDOT/CADDS SHEET 42



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

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

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

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)
SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

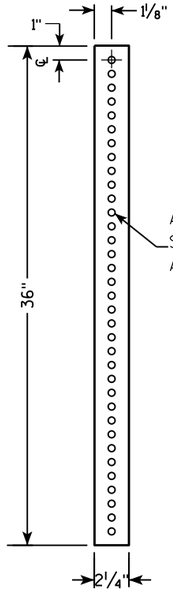
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

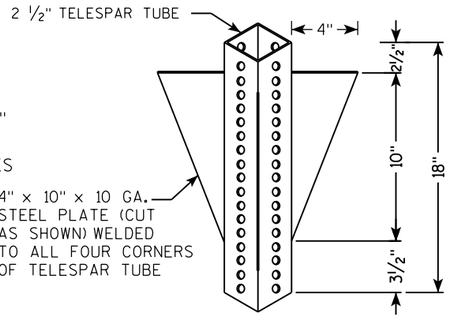
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

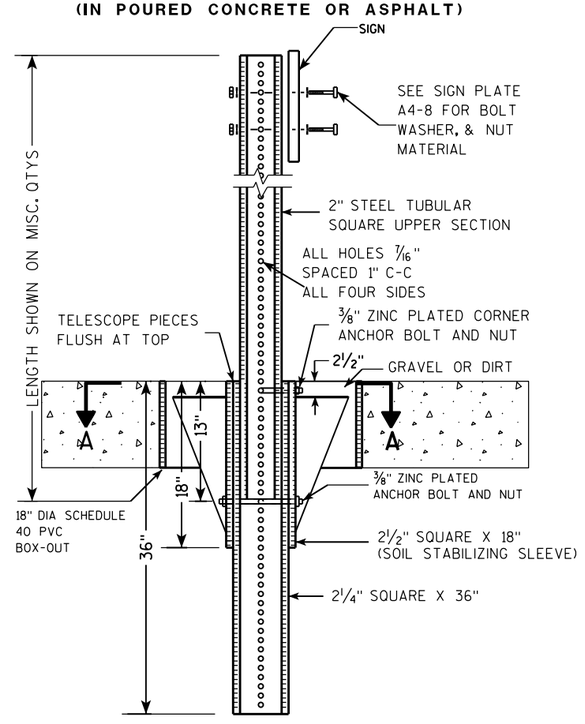
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



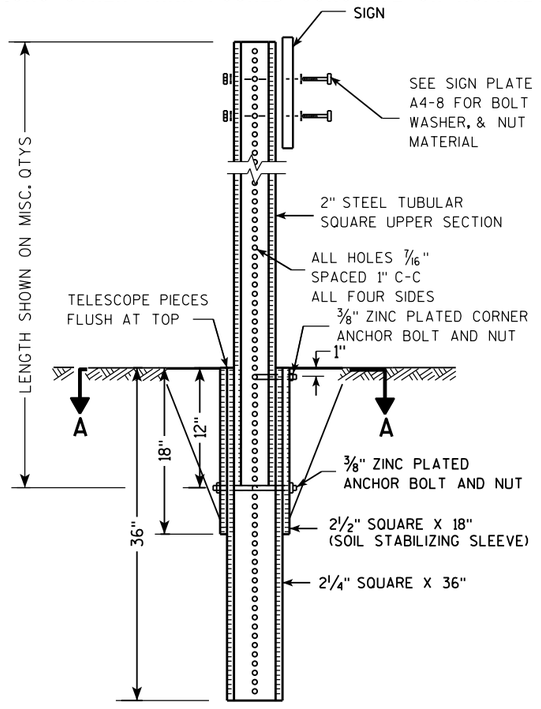
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

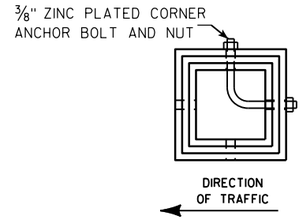


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

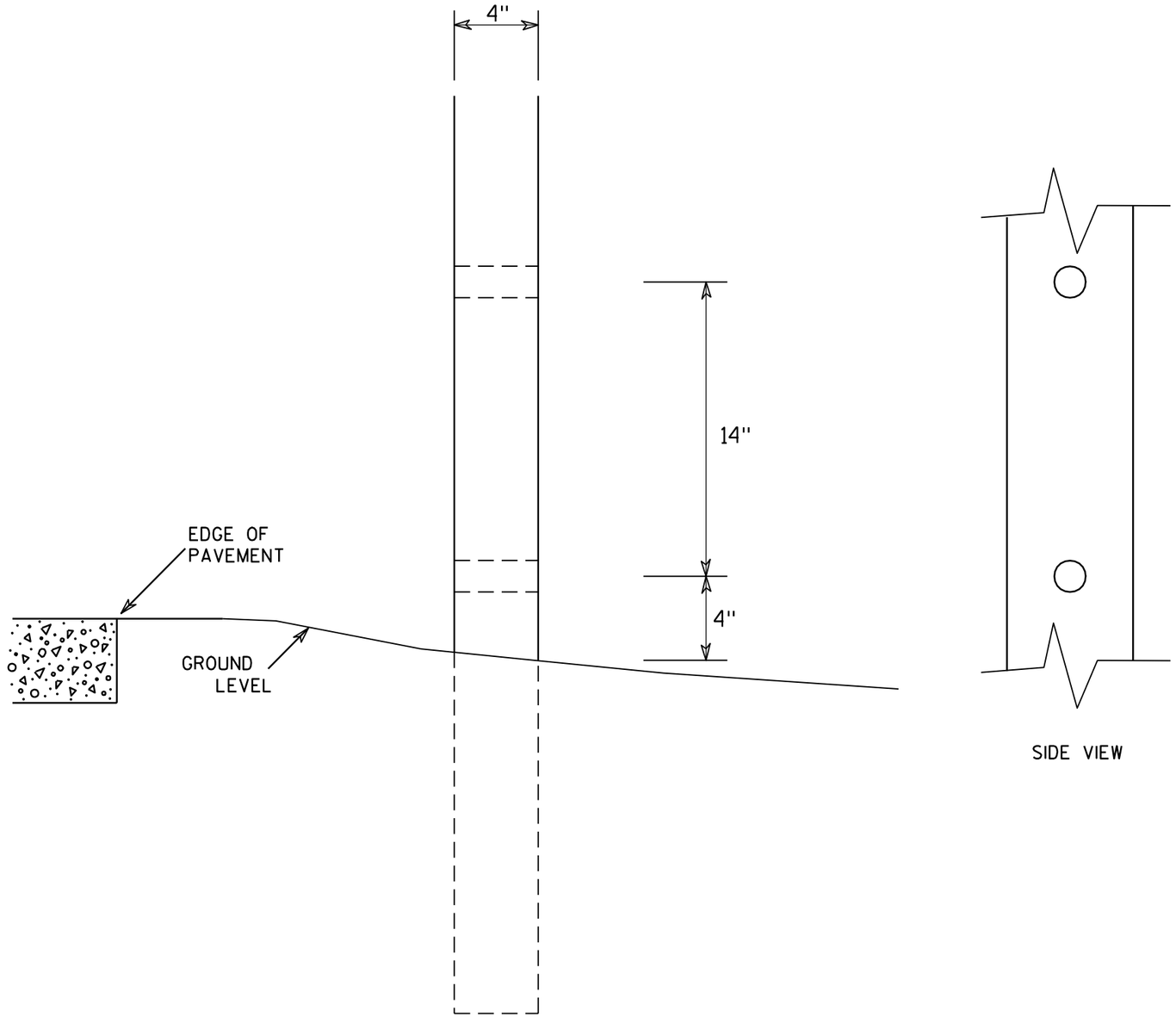
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000
WISDOT/CADDS SHEET 42



SIDE VIEW

GENERAL NOTES

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

7

7

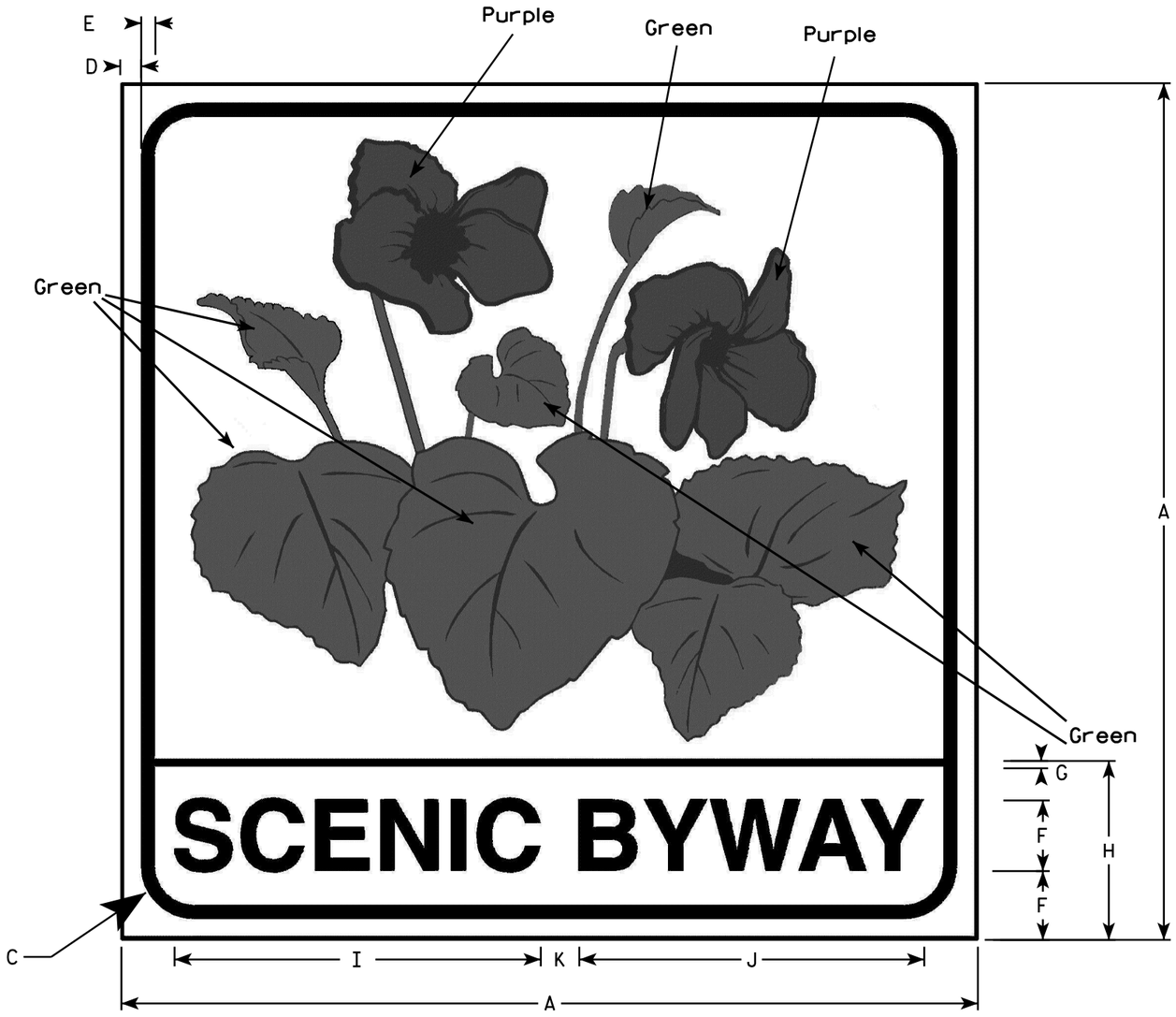
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 158	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 Except as noted
   Border of Leaves and Flowers is Black
3. Message Series - Special
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. Contact WisDOT with any questions.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2	5/8	3/8	2	1/4	5	10 1/4	9 5/8	1 1/8																4.0	.36
3																												
4	36		4	7/8	5/8	3	1/4	7 1/2	15 3/8	14 1/2	1 5/8																9.0	.81
5																												

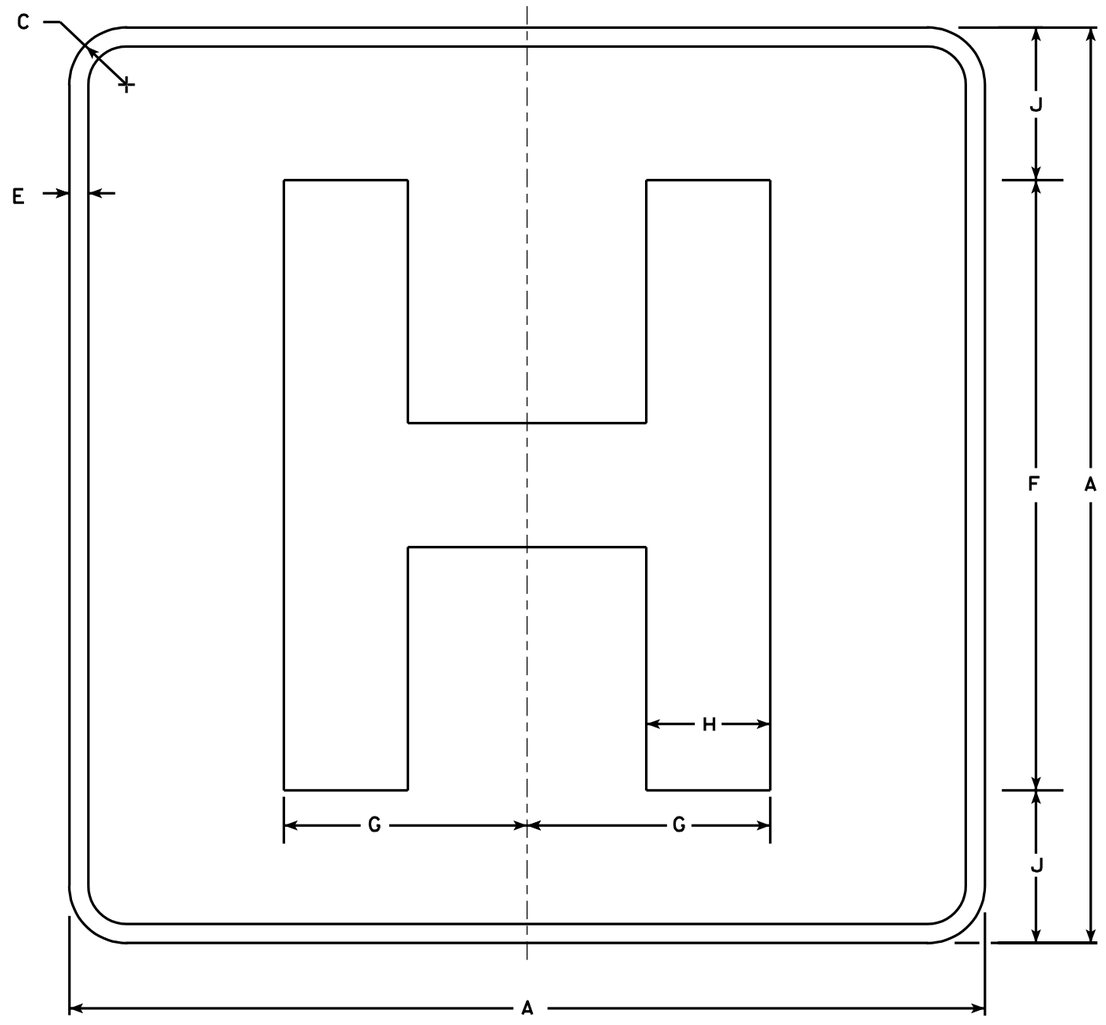
STANDARD SIGN
D6-4S

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 10/05/09 PLATE NO. D6-4S.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 159 | E



D9-2

NOTES

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

Metric equivalent for this sign is:

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

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

STANDARD SIGN
D9-2

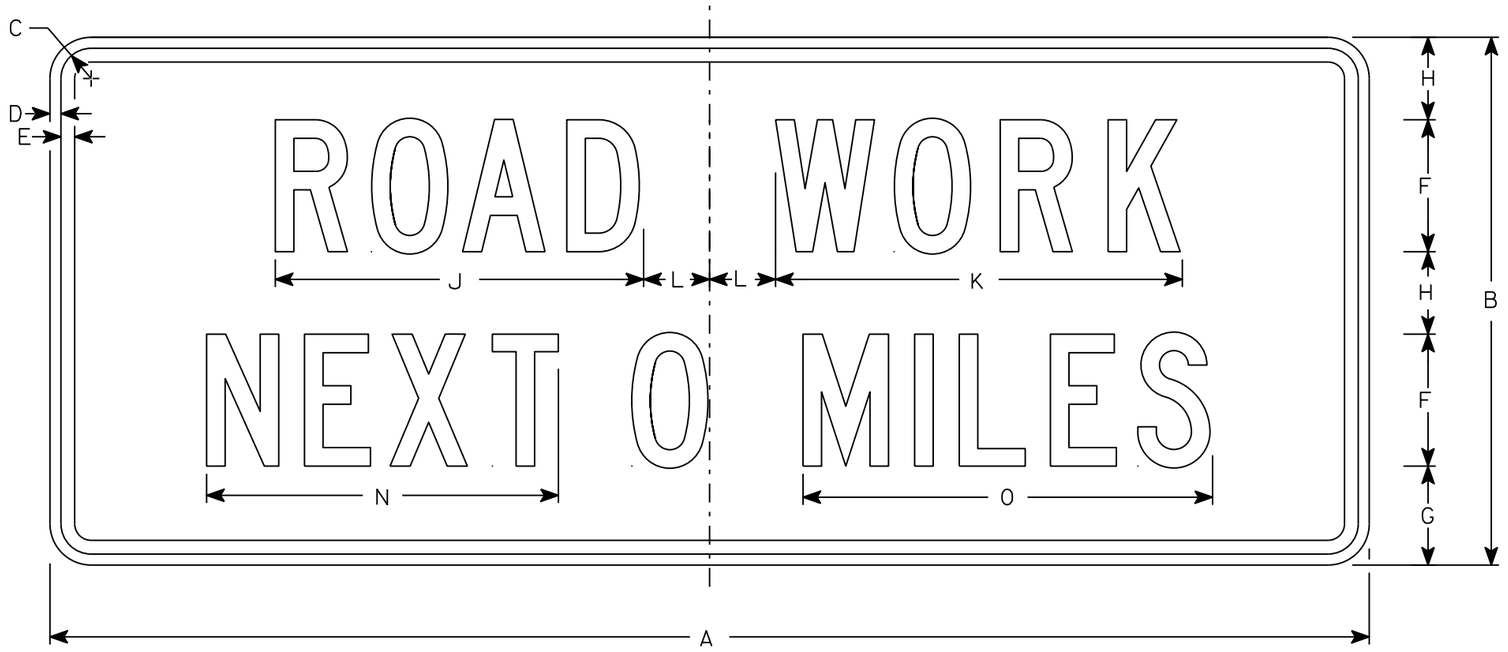
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spong
for State Traffic Engineer

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

PROJECT NO:

SHEET NO: 160 E



G20-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Round distance to nearest whole Mile and 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																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
5																											

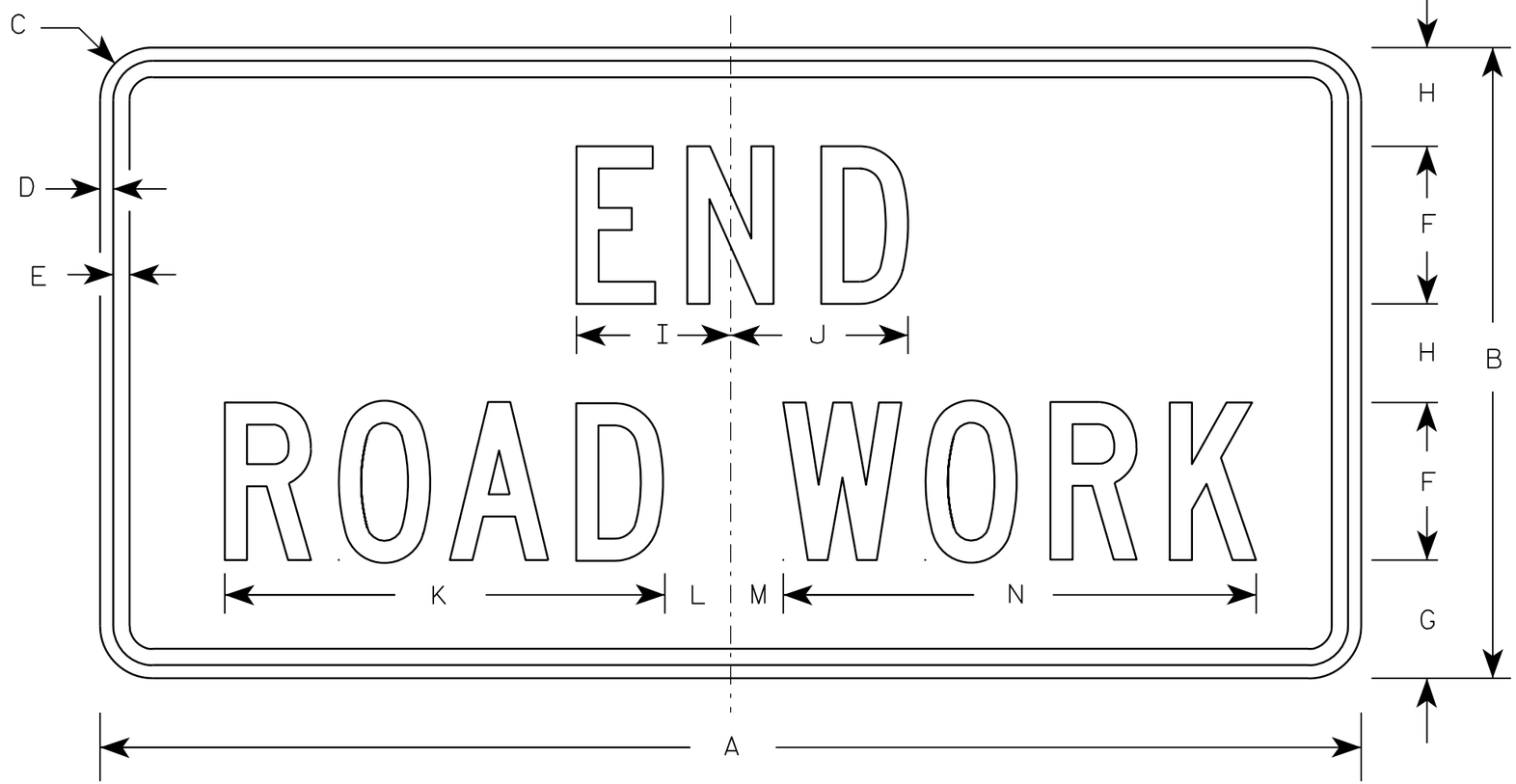
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 161	E



G20-2A

NOTES

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

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

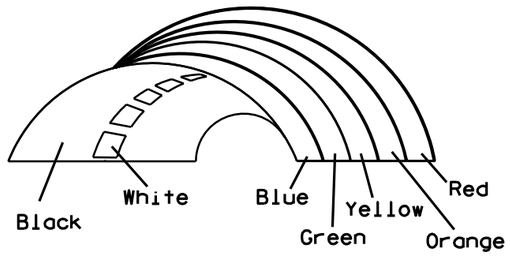
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 162	E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - (See Note 5)
3. Message Series - (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.

Background Colors of Symbol*



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

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																											

STANDARD SIGN
I55-56

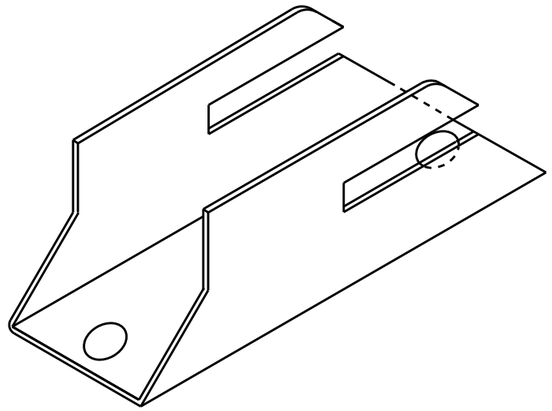
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

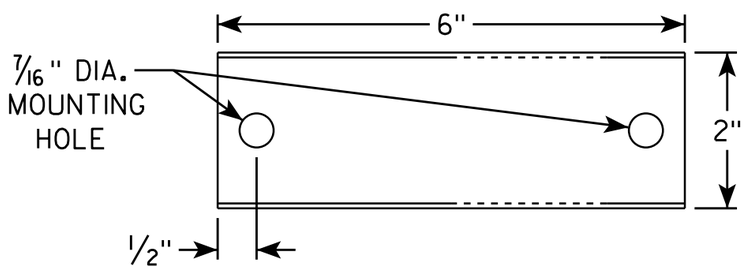
DATE 4/27/11 PLATE NO. 155-56.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 163

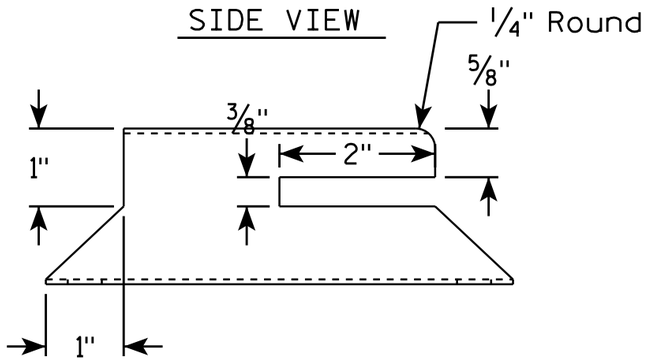
ISOMETRIC VIEW



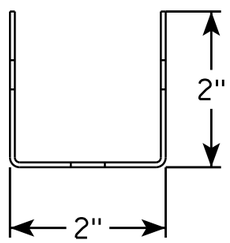
TOP VIEW



SIDE VIEW



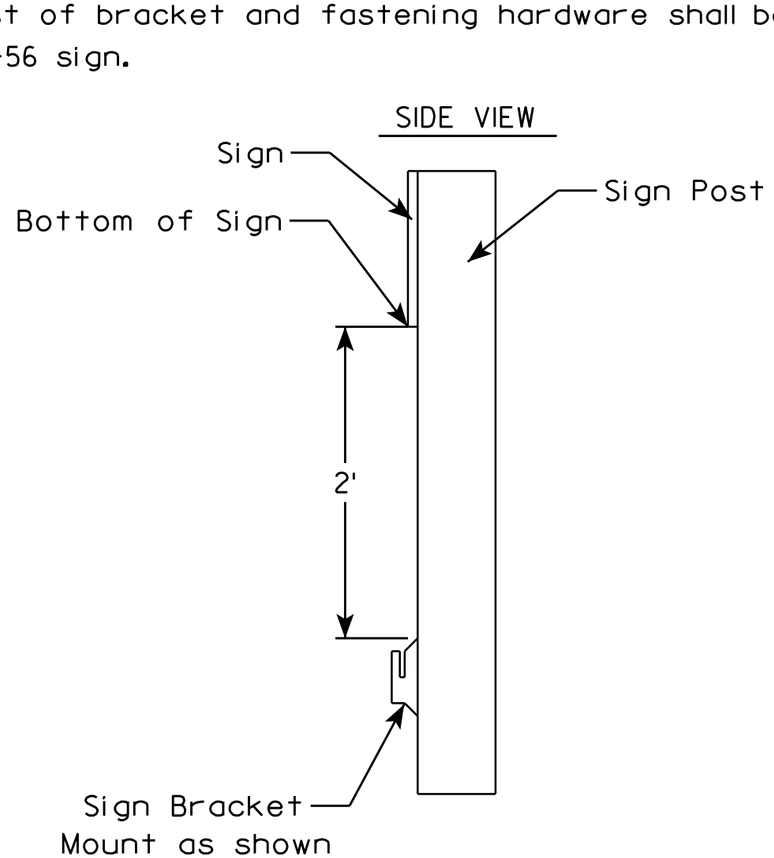
END VIEW



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

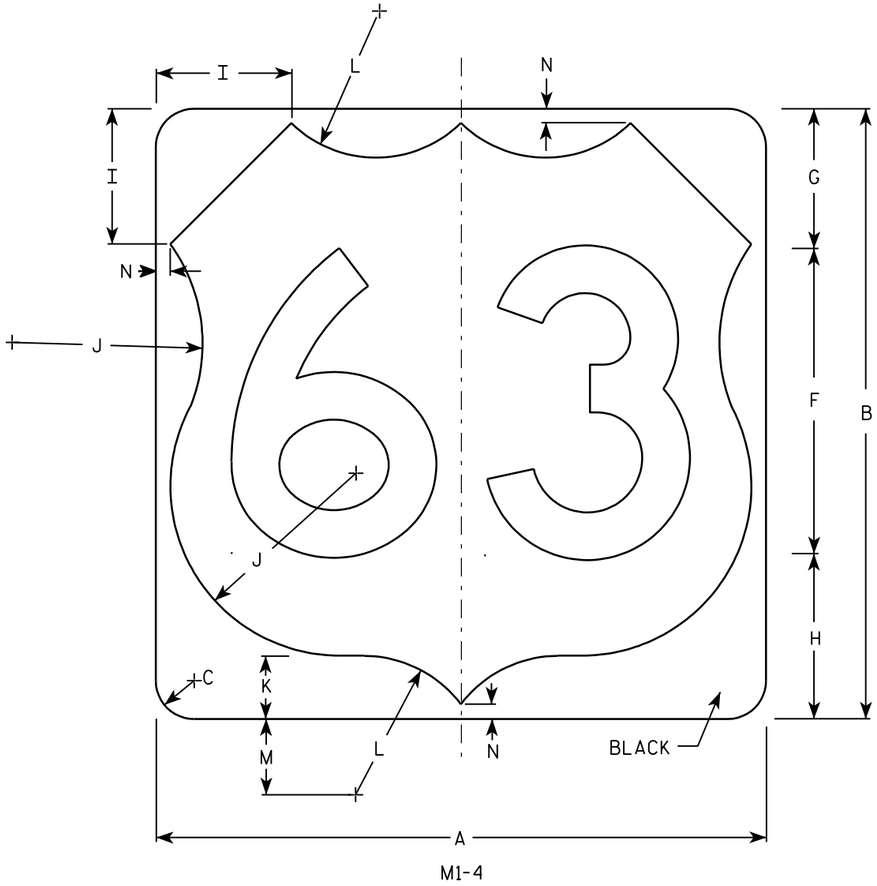
DATE 4/26/16 PLATE I55-56B.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

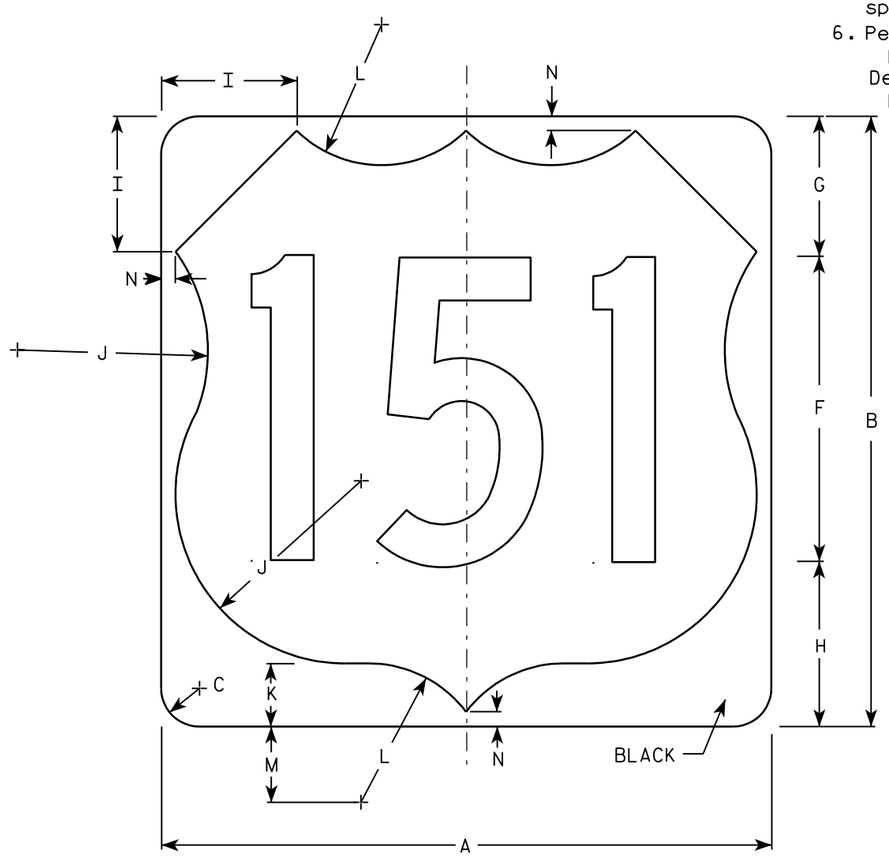
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\I5556B.DGN PLOT DATE : 26-APR-2016 17:29 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.945842:1.000000
WISDOT/CADDS SHEET 42

NOTES

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



M1-4



M1-4

7

7

Metric equivalent for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81

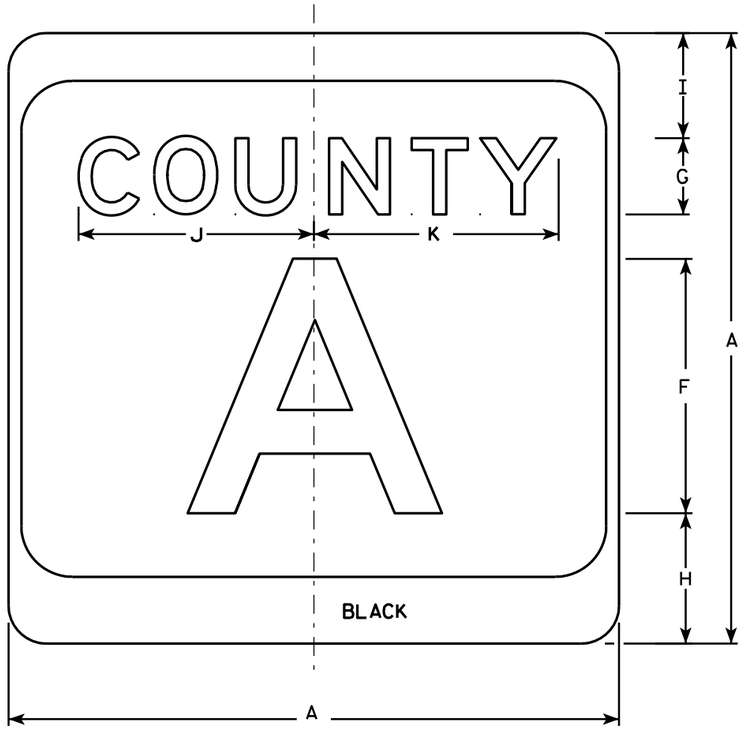
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

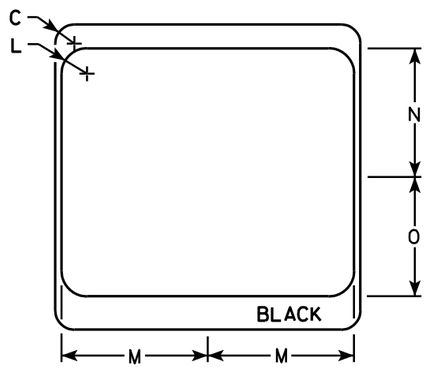
APPROVED Matthew R Rauch
for State Traffic Engineer

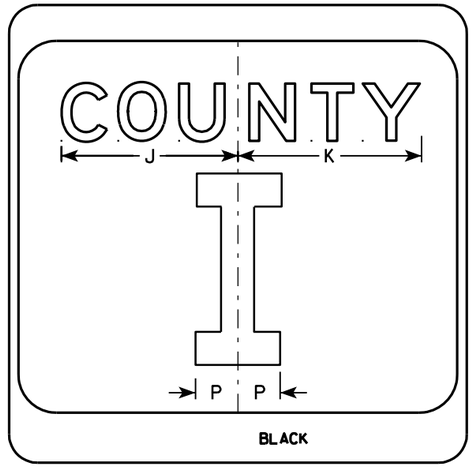
DATE 08/25/05 PLATE NO. M1-4.9

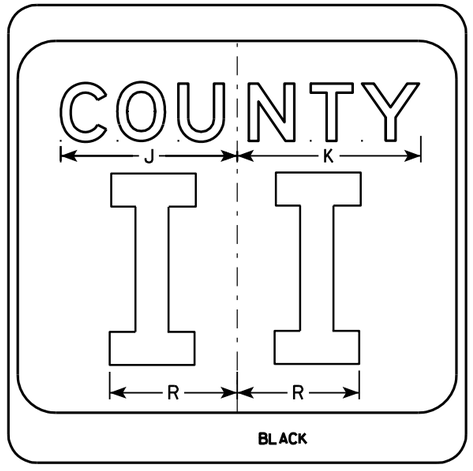
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 165	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

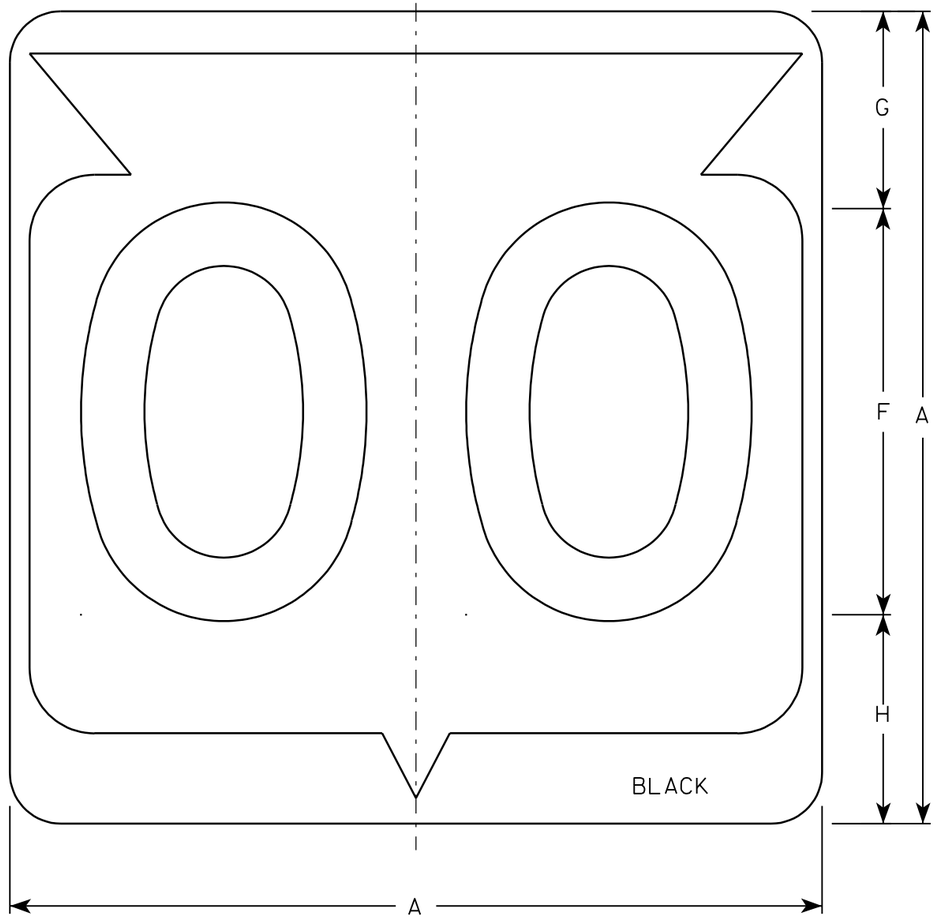
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

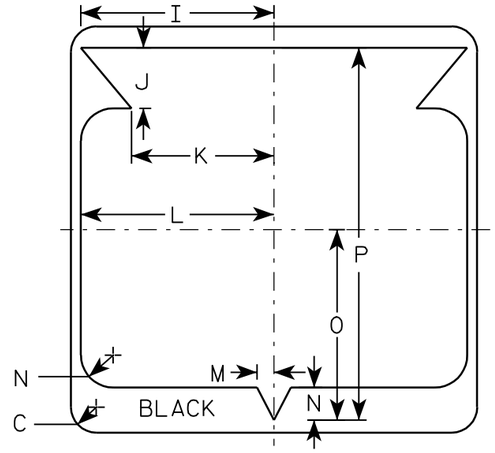
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 166 | E



M1-6

NOTES

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



Metric equivalent for this sign is:

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

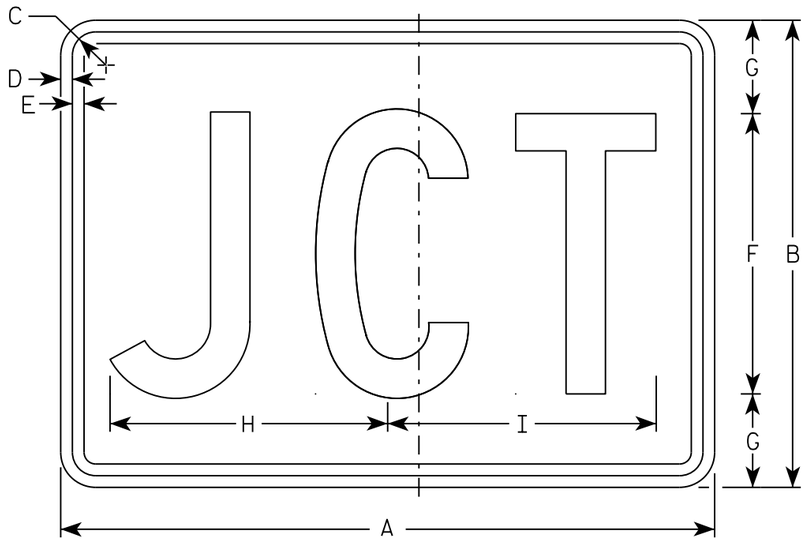
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

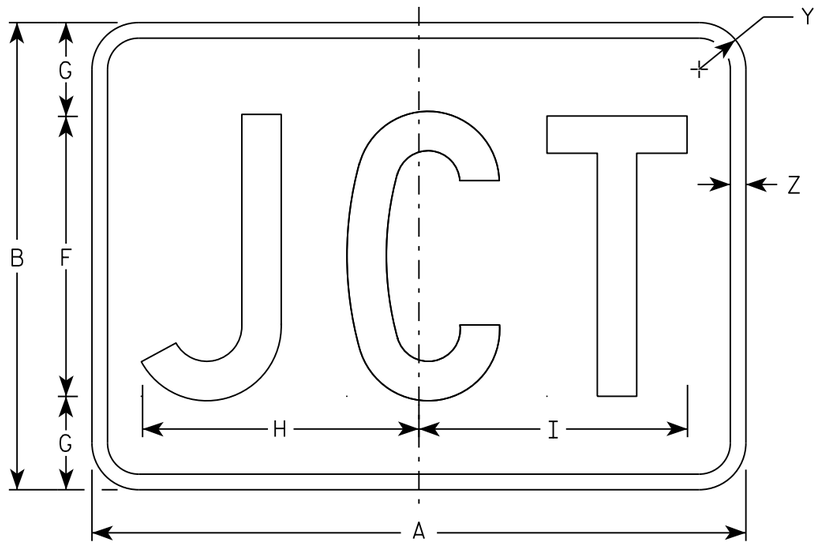
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 167	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

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

STANDARD SIGN
M2-1

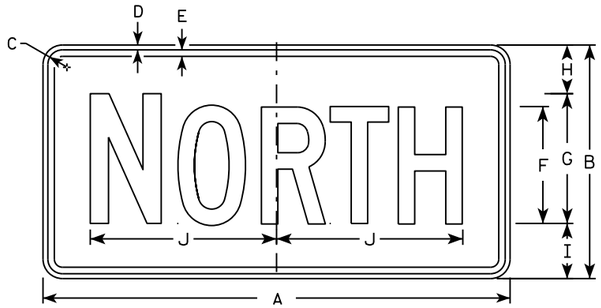
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

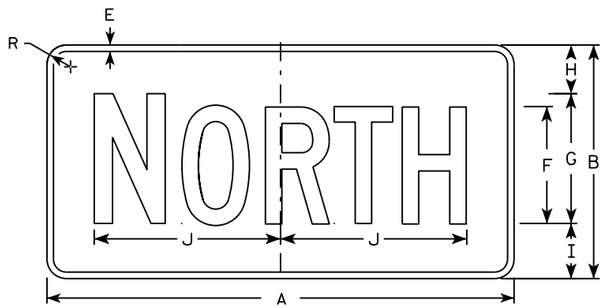
DATE 10/15/15 PLATE 168 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



M3-1
MM3-1
MP3-1



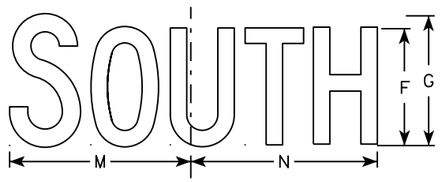
MB3-1
MK3-1
MN3-1



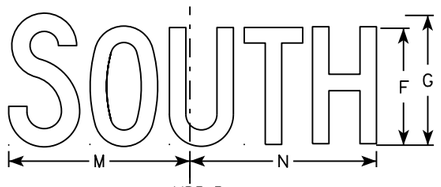
M3-2
MM3-2
MP3-2



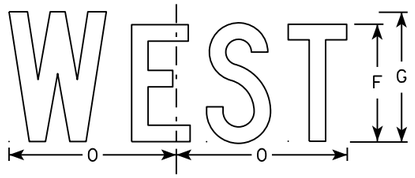
MB3-2
MK3-2
MN3-2



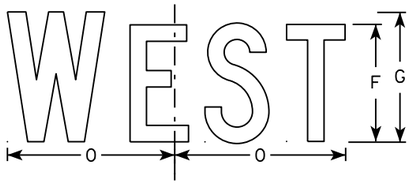
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

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

STANDARD SIGNS
M3-1 thur M3-4
SERIES

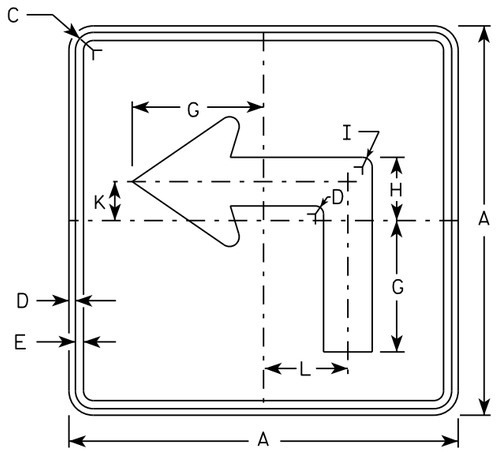
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

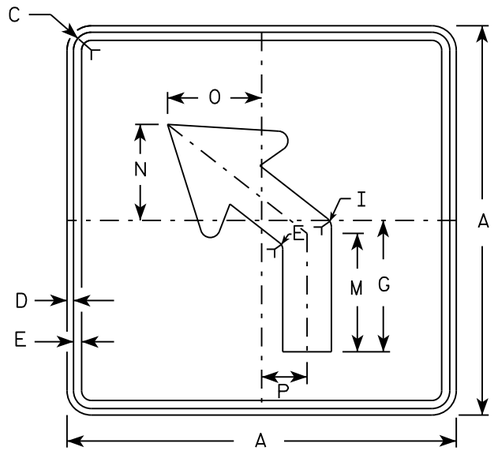
DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

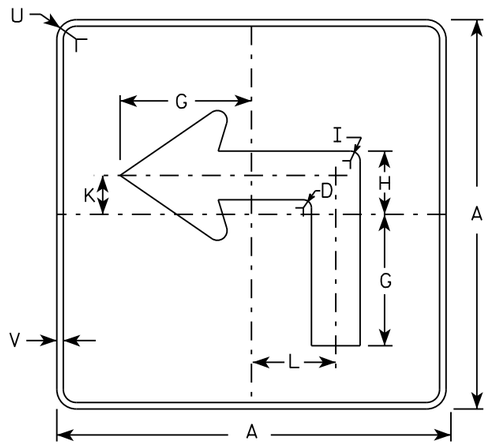
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



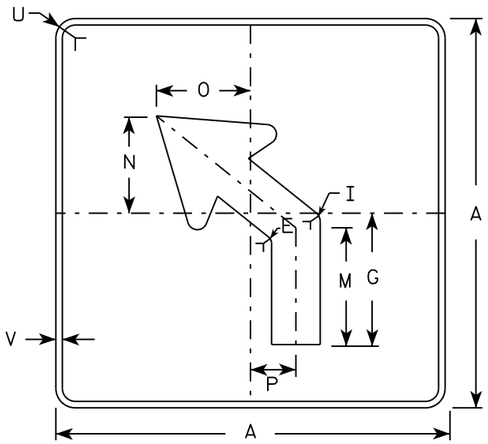
M5-1L
MM5-1L
MO5-1L
MP5-1L



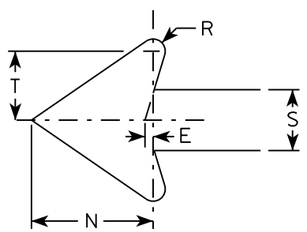
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

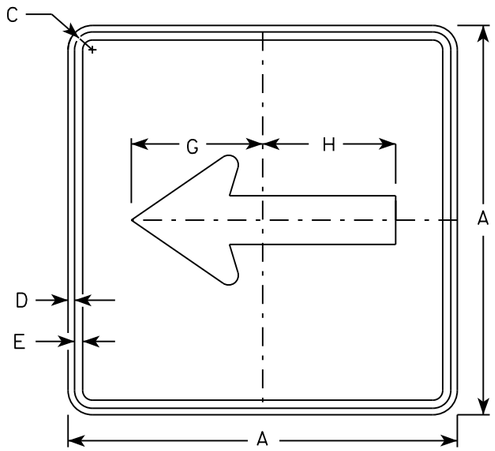
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

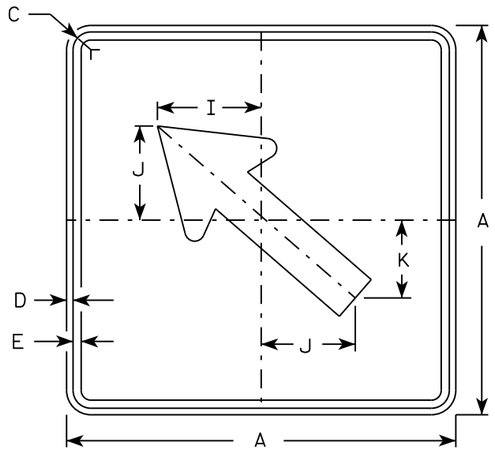
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



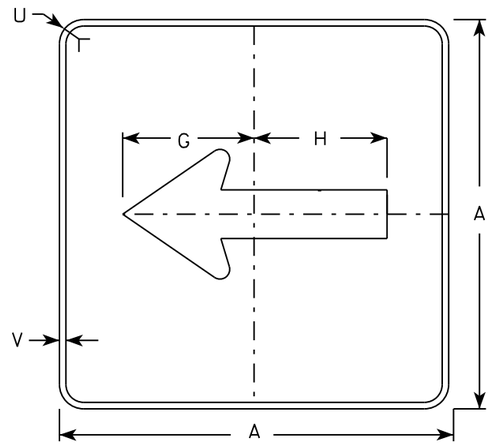
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2

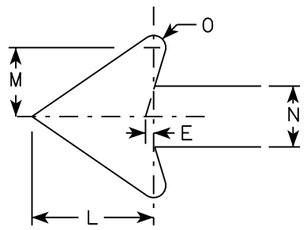
NOTES

1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1

MB6-2
MK6-2
MN6-2
MR6-2



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

STANDARD SIGN
M6-1 & M6-2
SERIES

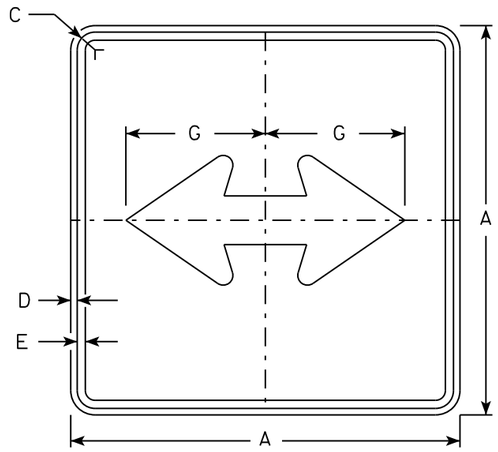
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

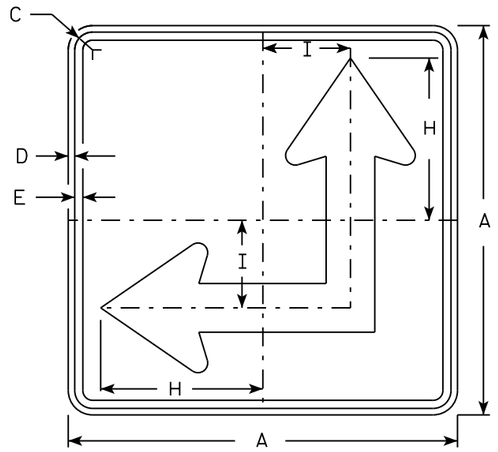
DATE 10/15/15 PLATE 171 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



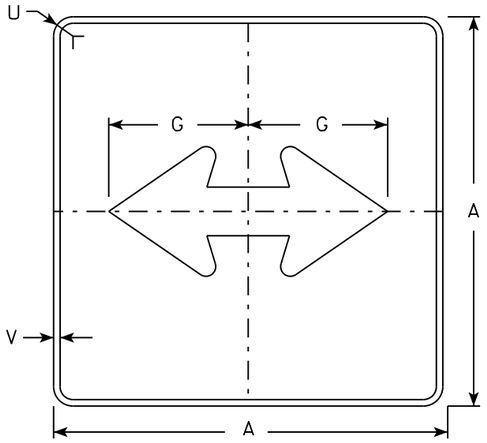
M6-4
MM6-4
MO6-4
MP6-4



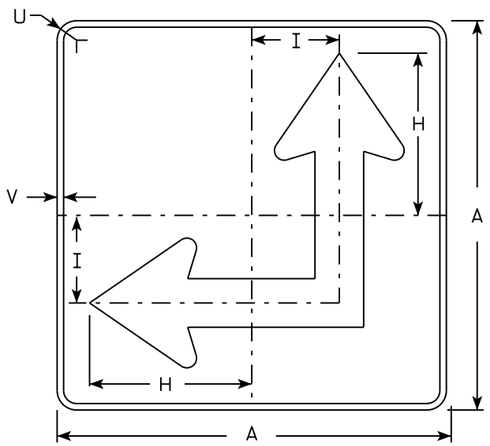
M6-6
MM6-6
MO6-6
MP6-6

NOTES

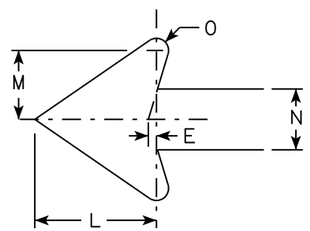
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



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																											
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
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
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
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

STANDARD SIGN
M6-4 & M6-6
SERIES

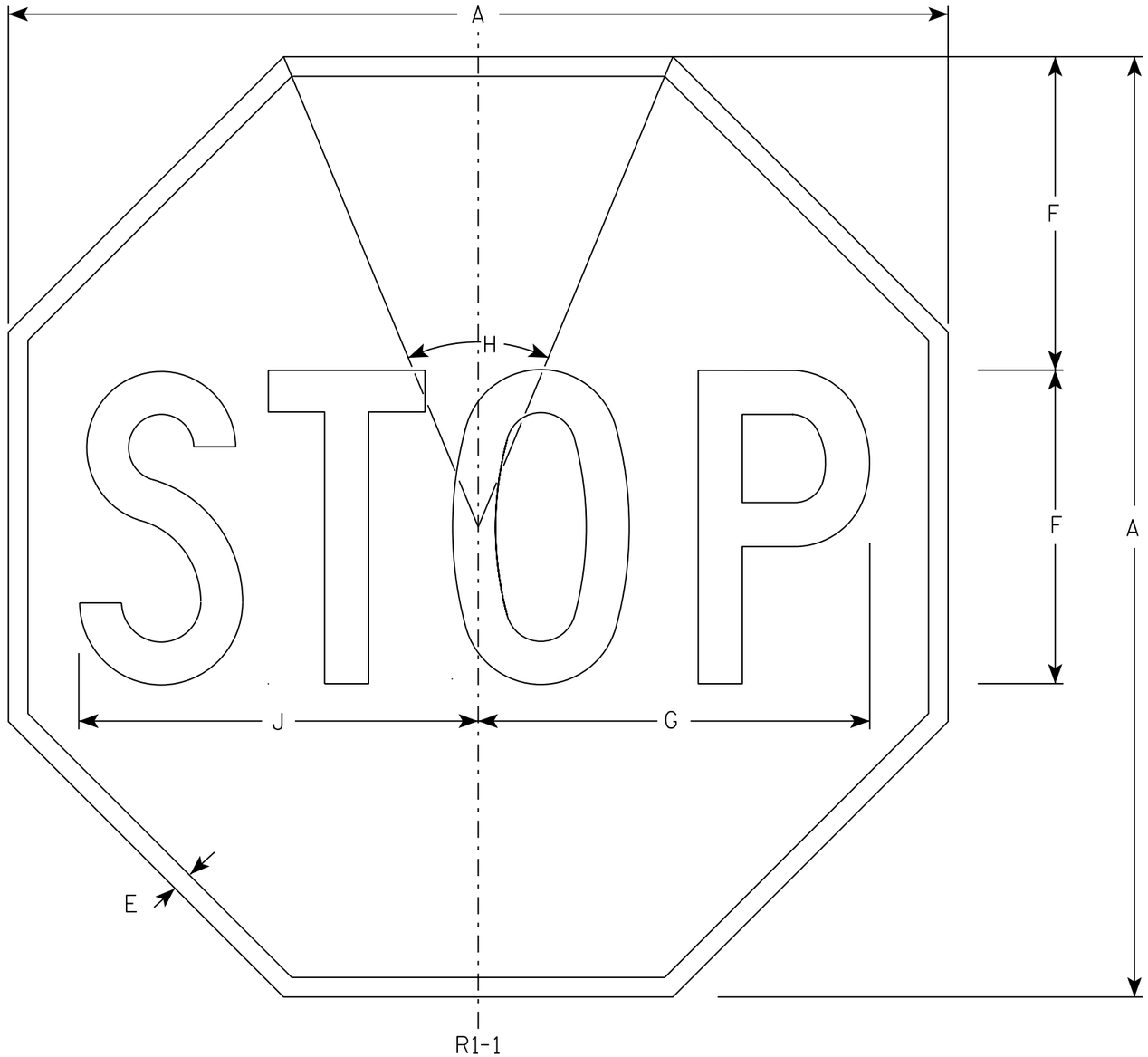
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 172 M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



R1-1

NOTES

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

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

STANDARD SIGN
R1-1

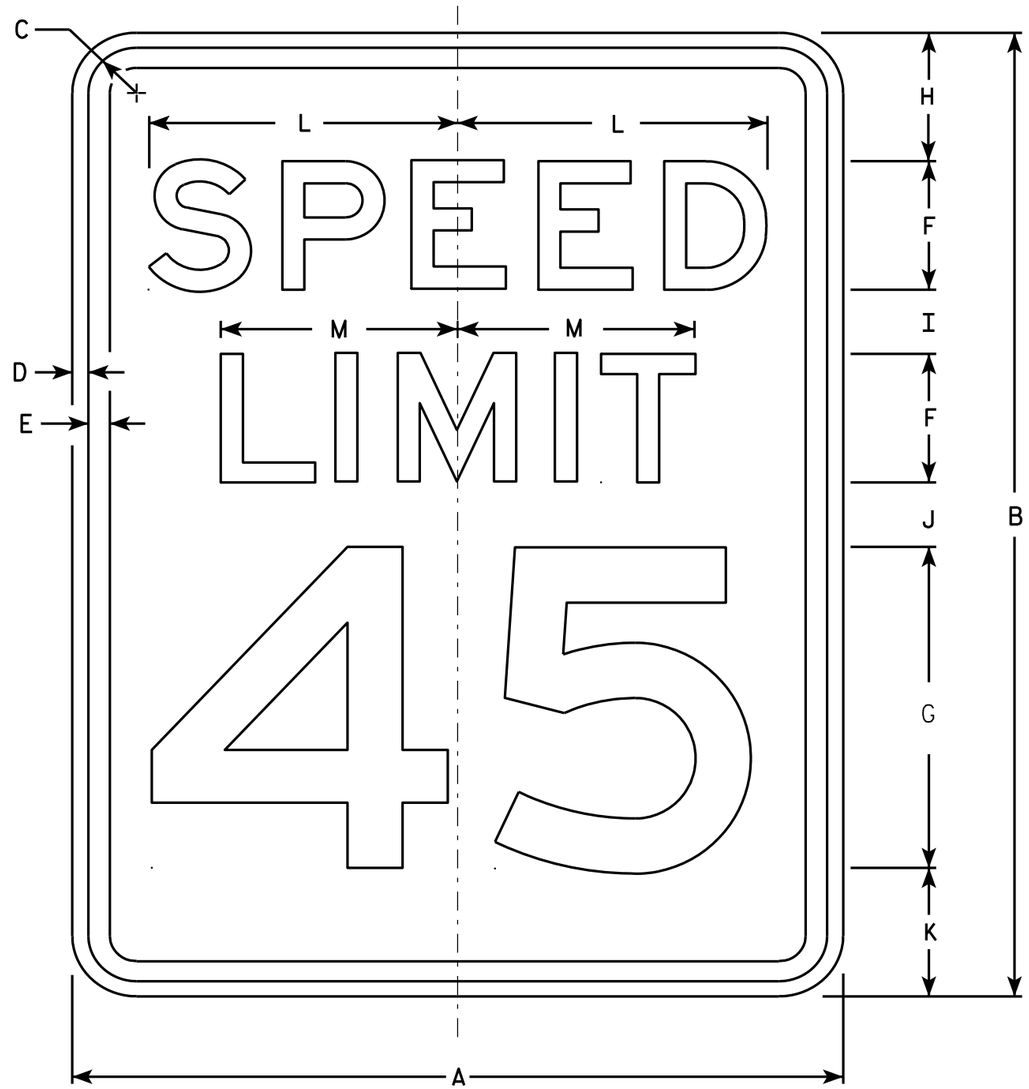
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE 173 R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.378143:1.000000



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

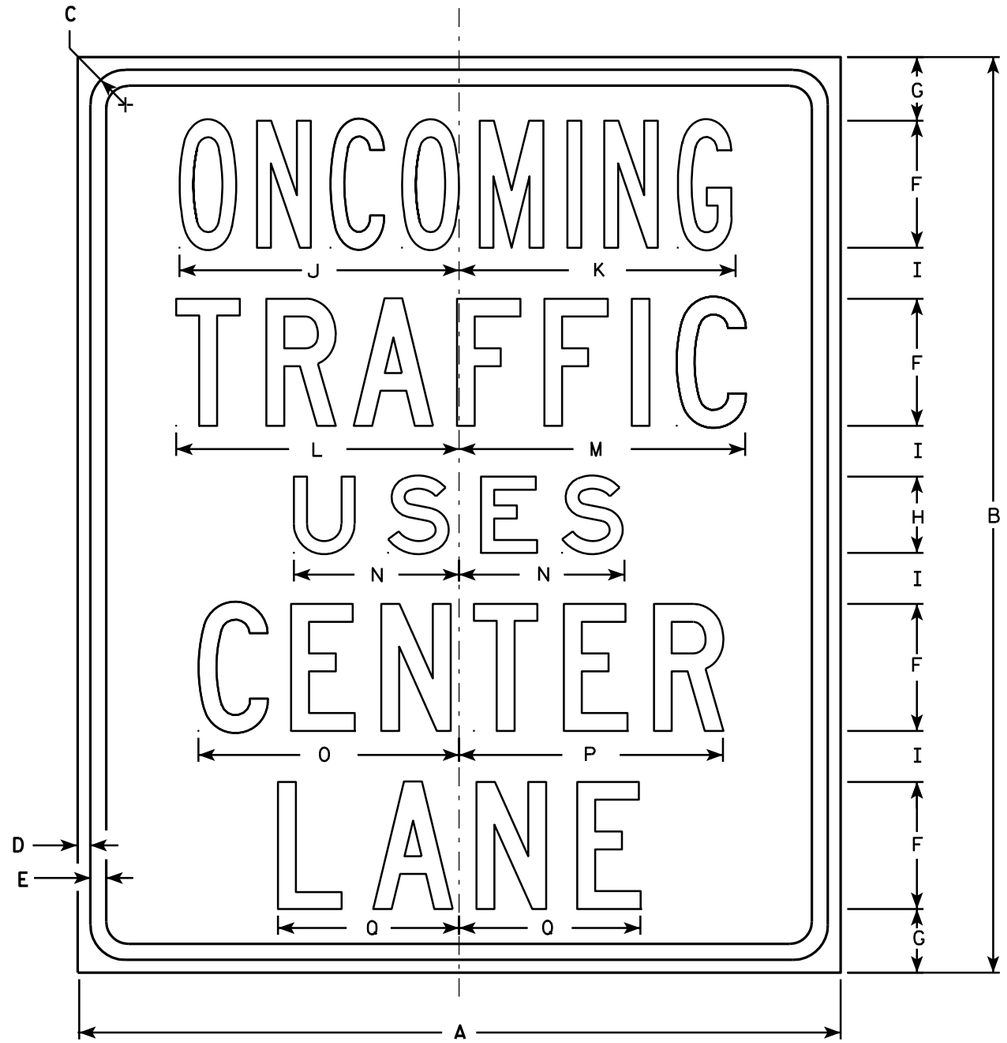
STANDARD SIGN
R2-1

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: 174 | E



R3-72

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.

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																											

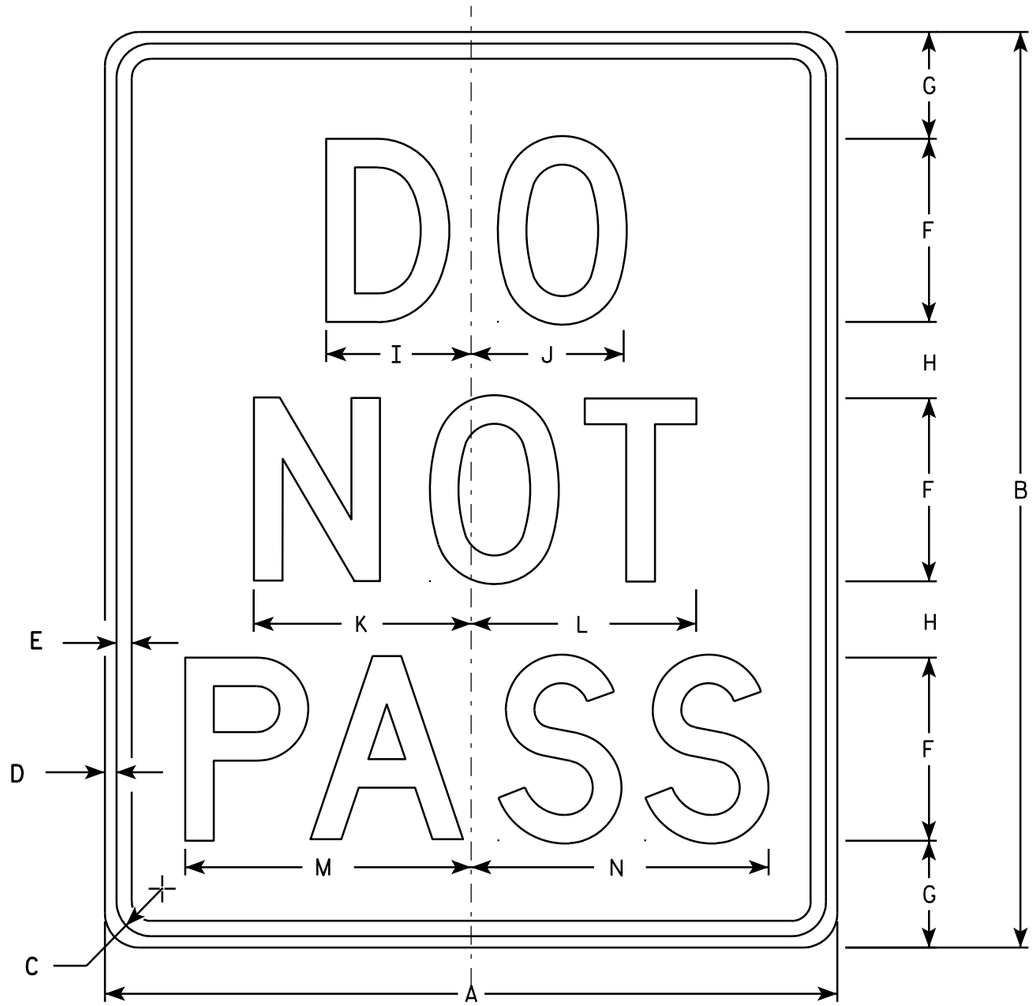
STANDARD SIGN
R3-72

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: 175	E



R4-1

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 - 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	18	24	1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 1/8	3 1/4	4 3/4	4 7/8	6 1/4	6 1/2													3.0
2S	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
2M	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
3																											
4	36	48	1 5/8	5/8	3/4	8	7	5	6 1/4	6 5/8	9 1/2	9 3/4	12 1/2	13													12.0
5	48	60	2 1/4	3/4	1	10	8	7	7 3/4	8 3/8	11 7/8	12 1/4	15 5/8	16 1/4													20.0

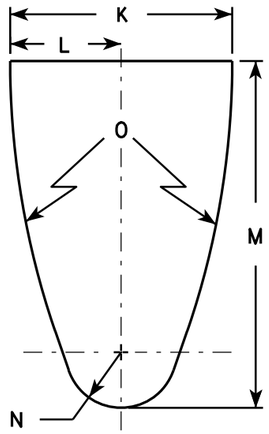
STANDARD SIGN
R4-1

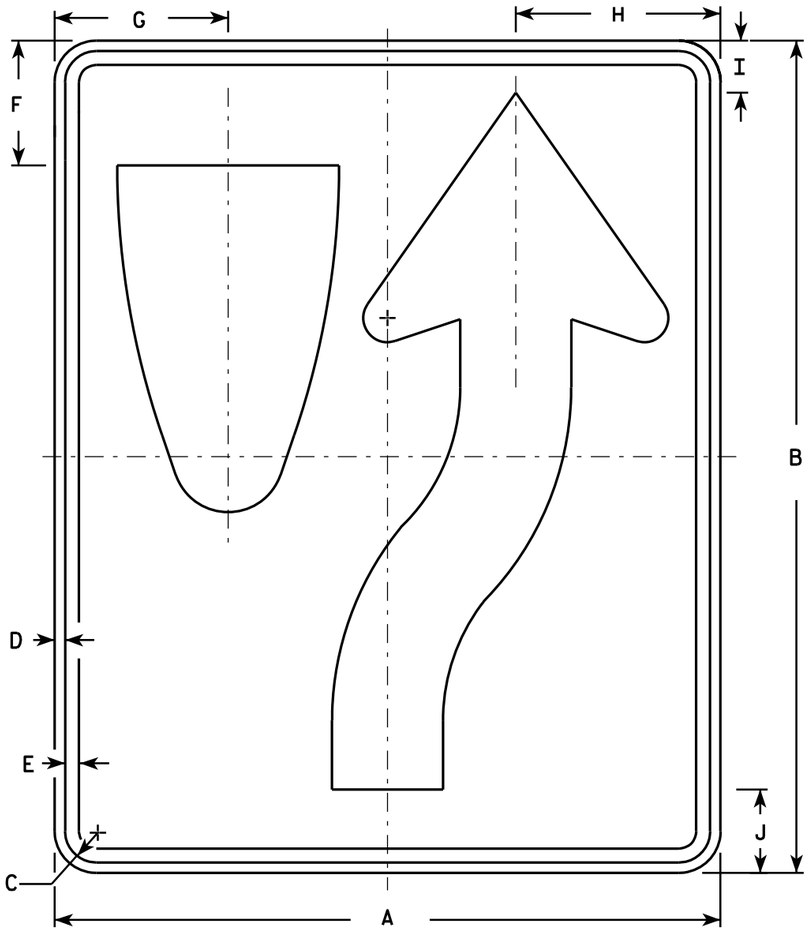
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-1.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 176 | E

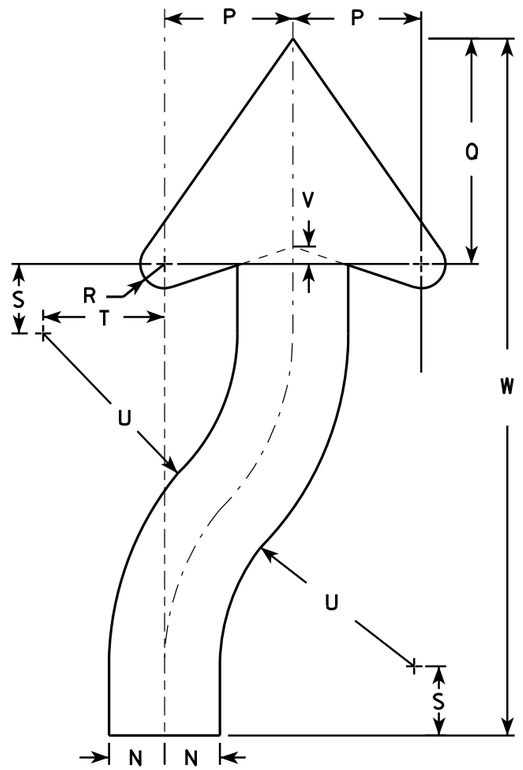




R4-7

NOTES

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



ARROW DETAIL

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

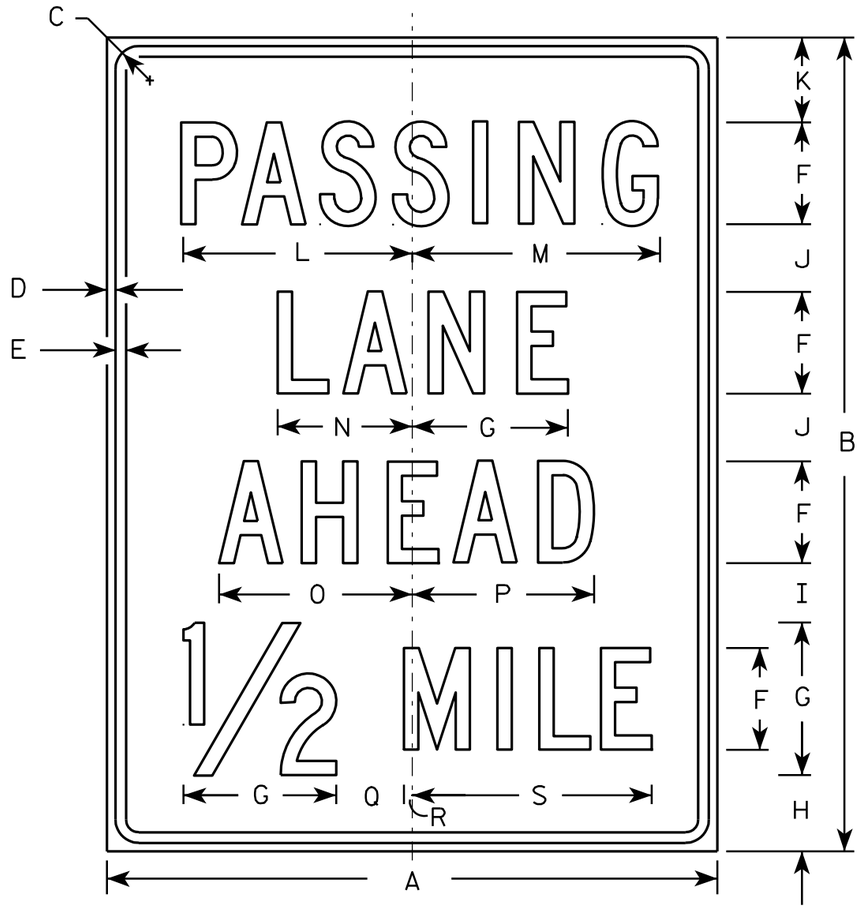
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

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

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 177	E



R4-51

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	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																											

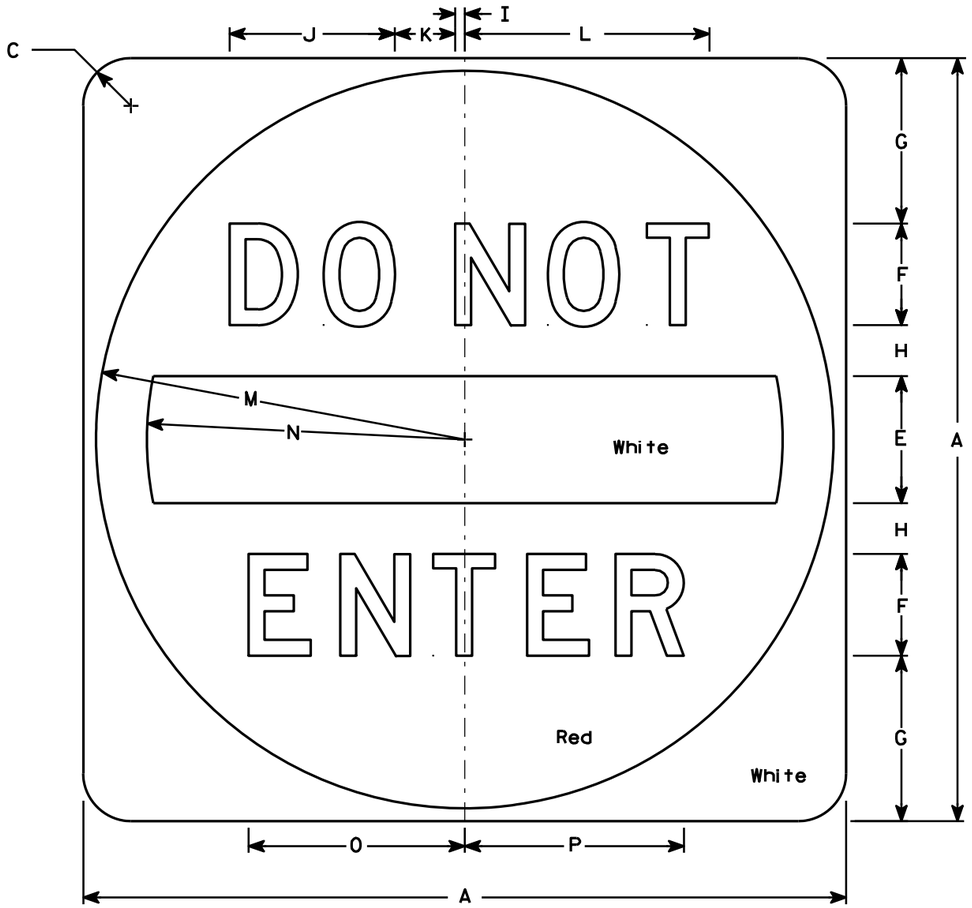
STANDARD SIGN
R4-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 178 | E



R5-1

NOTES

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

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

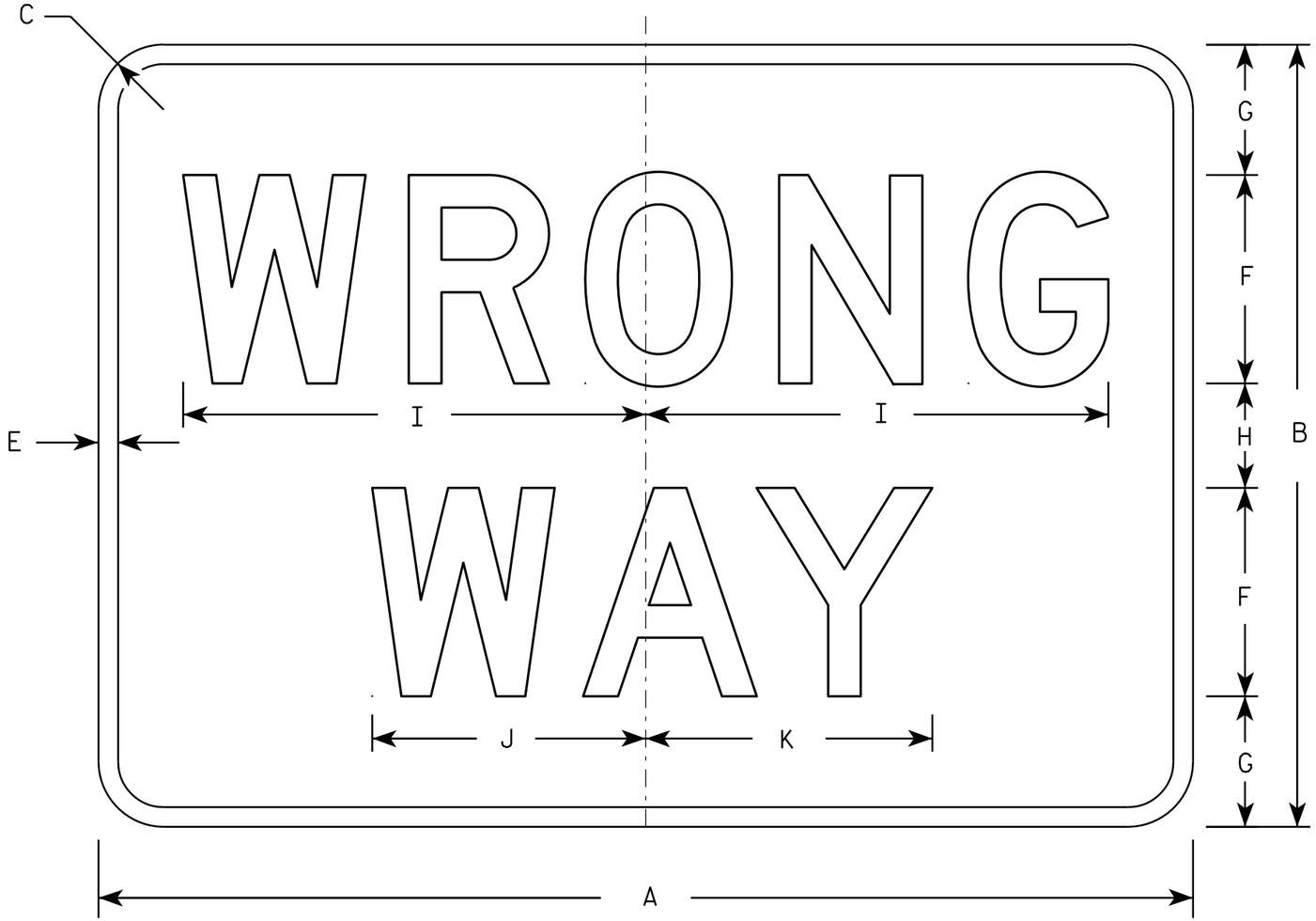
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 179 | E



R5-1A

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
4	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
5	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75

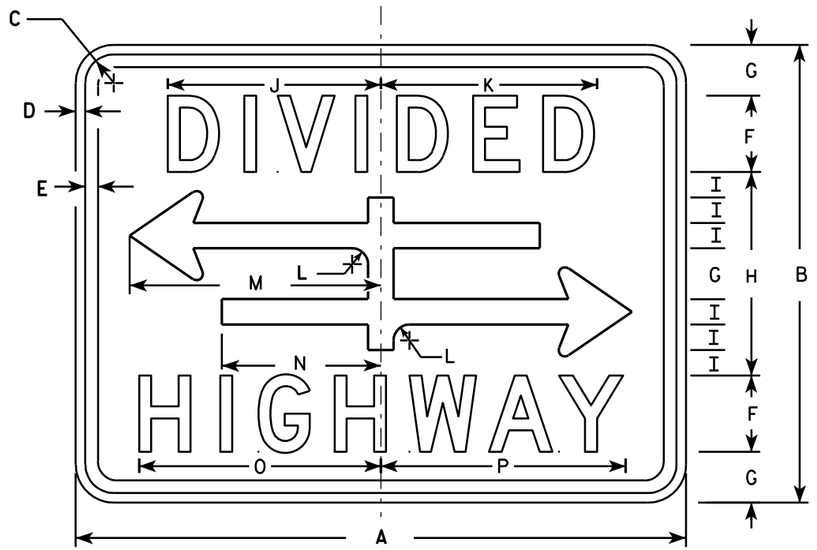
STANDARD SIGN
R5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2

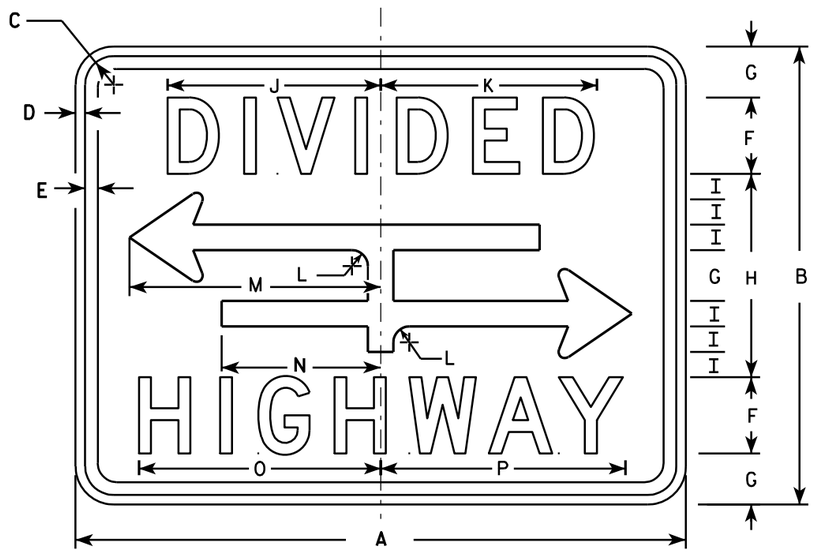
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 180	E



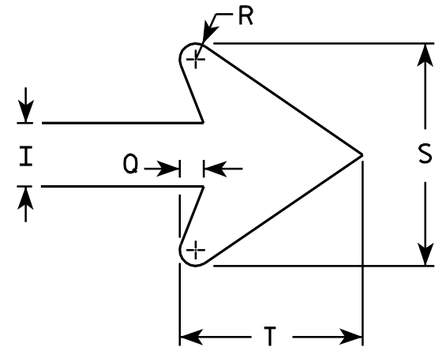
R6-3

NOTES

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



R6-3A



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	18	1 1/8	3/8	3/8	3	2	8	1	8 3/8	8 1/2	5/8	9 7/8	6 1/4	9 1/2	9 5/8	3/8	1/4	3 1/2	2 3/4							3.0
2S	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
2M	30	24	1 1/8	3/8	1/2	4	2 5/8	10 3/4	1 3/8	10 1/2	10 5/8	7/8	12 1/2	7 7/8	12 1/4	12 3/8	1/2	3/8	4 5/8	3 5/8							5.0
3																											
4																											
5																											

STANDARD SIGN
R6-3 & R6-3A

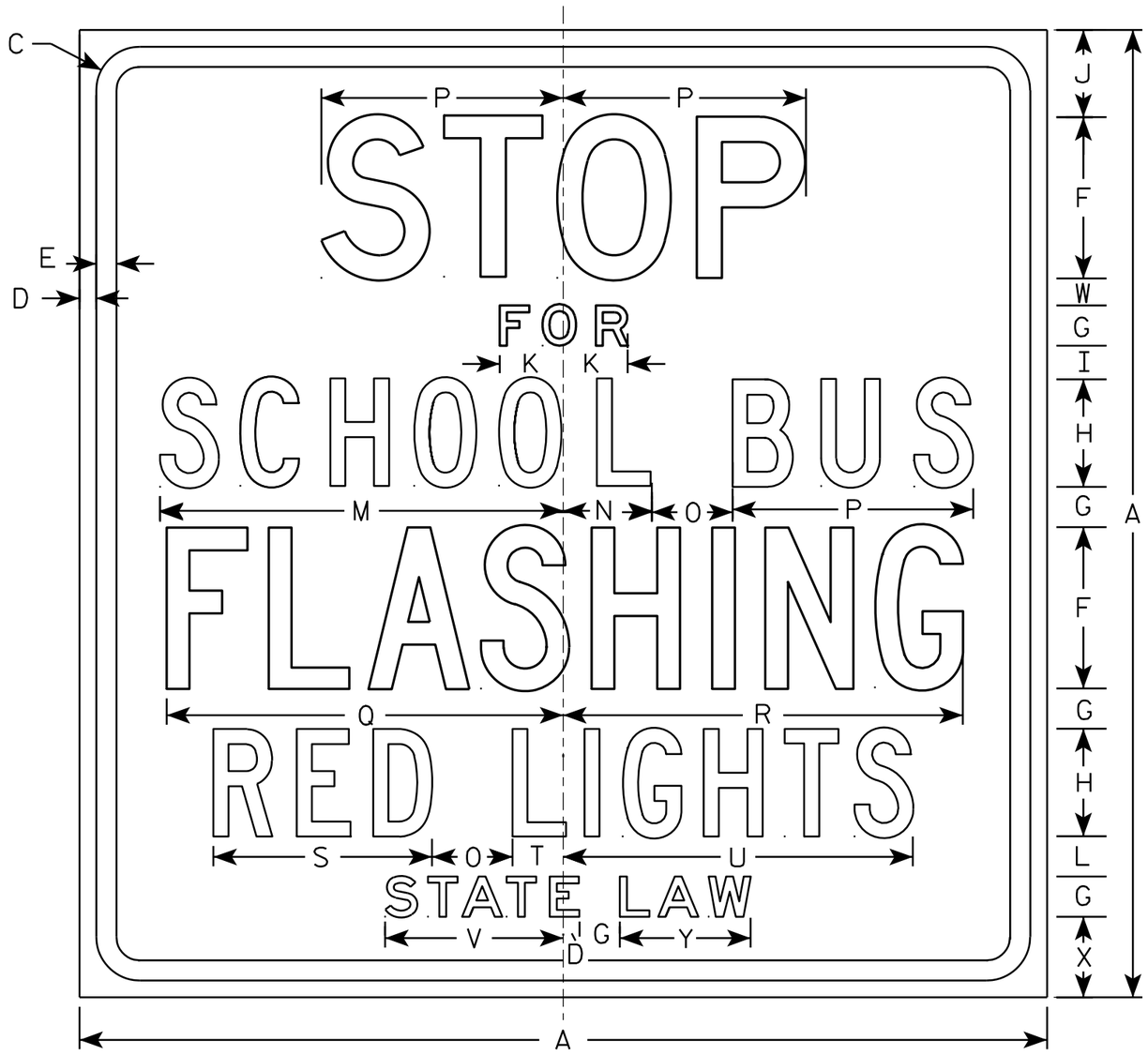
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R6-3.5

PROJECT NO:

SHEET NO: 181 E



R59-51

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D
   Lines 2 & 6 are Series E
   Line 3, 4 & 5 are Series C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
2M	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
3	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
4	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
5																											

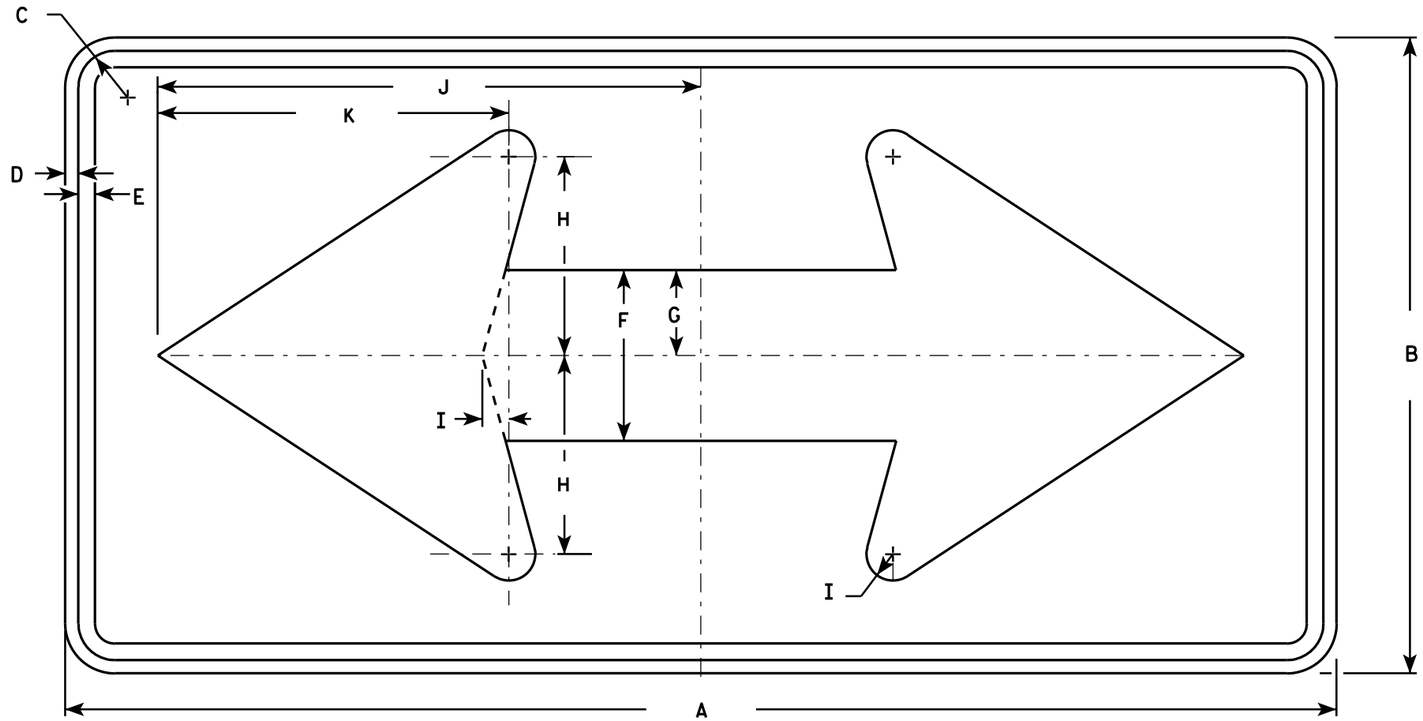
STANDARD SIGN
R59-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/30/11 PLATE NO. R59-51.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 182 | E



W1-7

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

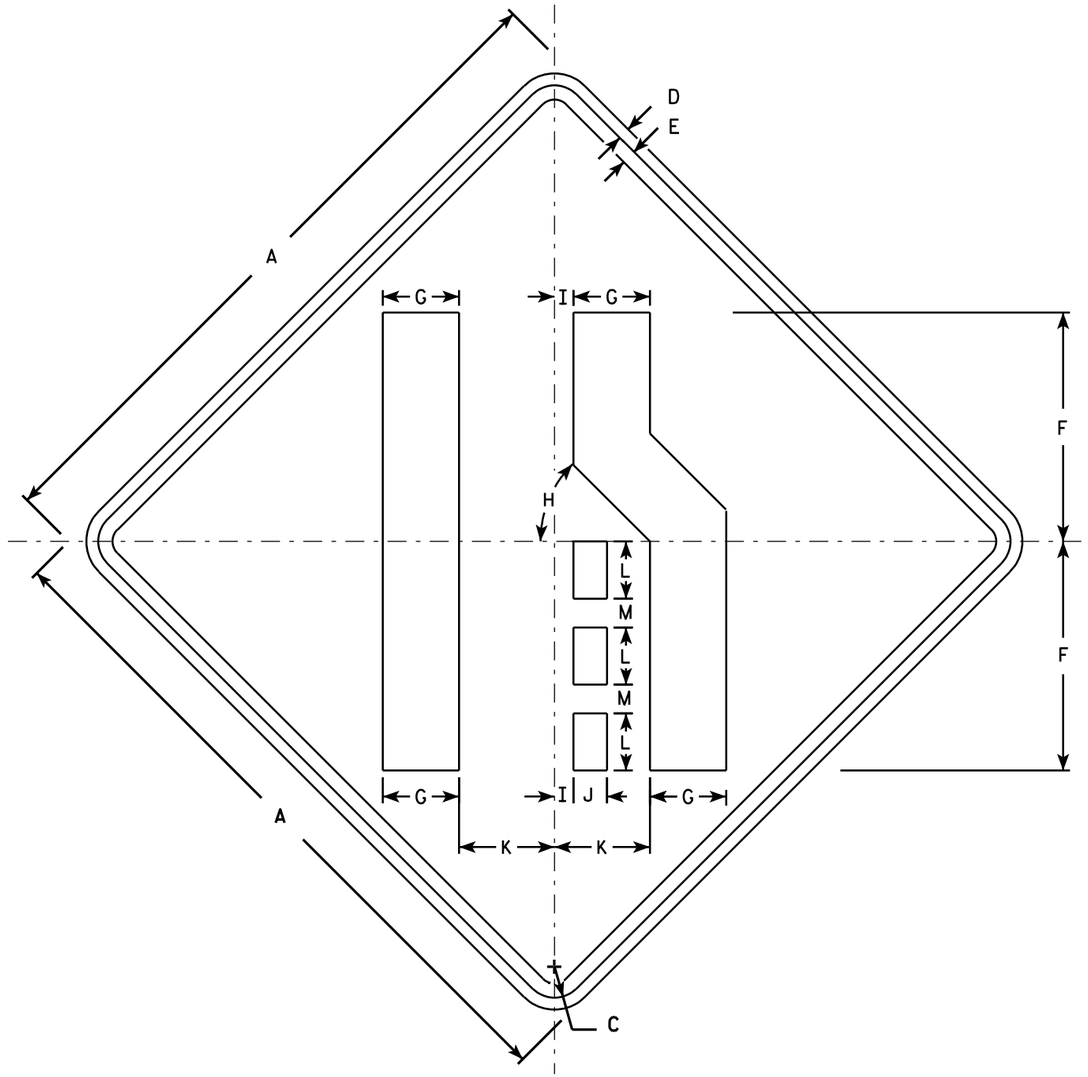
STANDARD SIGN
W1-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

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

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 183 | E



W4-2R

NOTES

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

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

STANDARD SIGN
W4-2

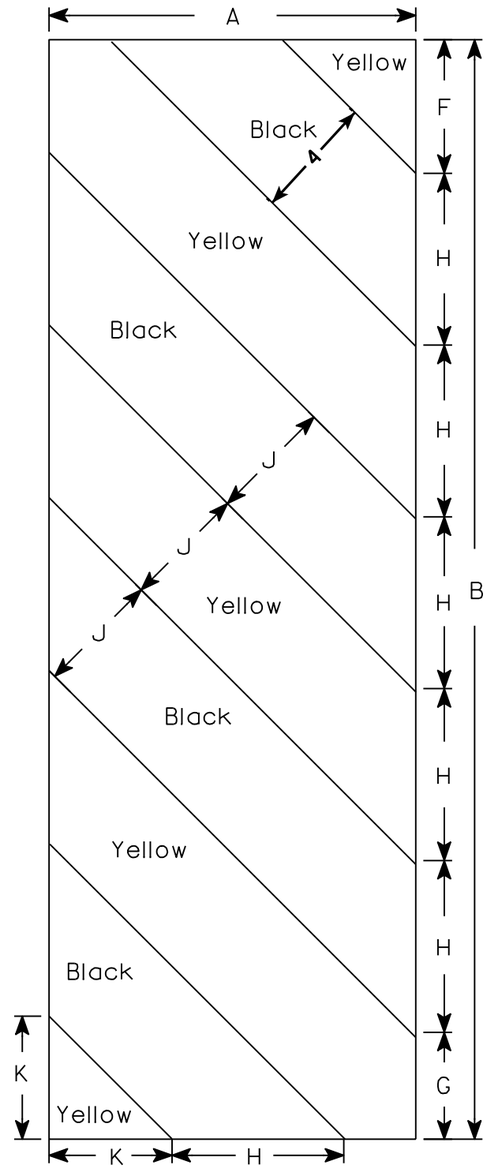
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

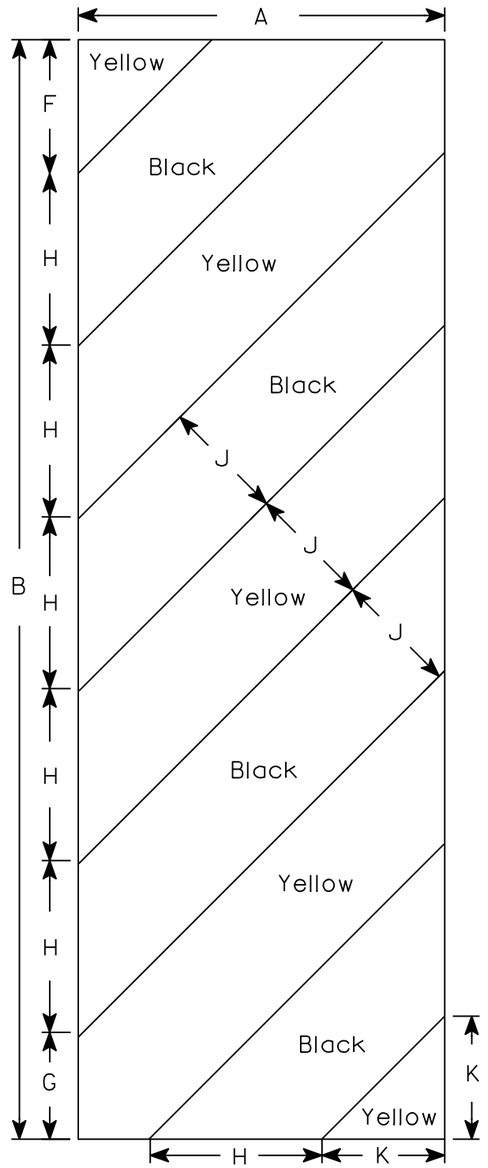
DATE 3/12/13 PLATE NO. W4-2.14

PROJECT NO:

SHEET NO: 184 E



W5-52L



W5-52R

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. Alternate colors of stripes as shown.

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	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

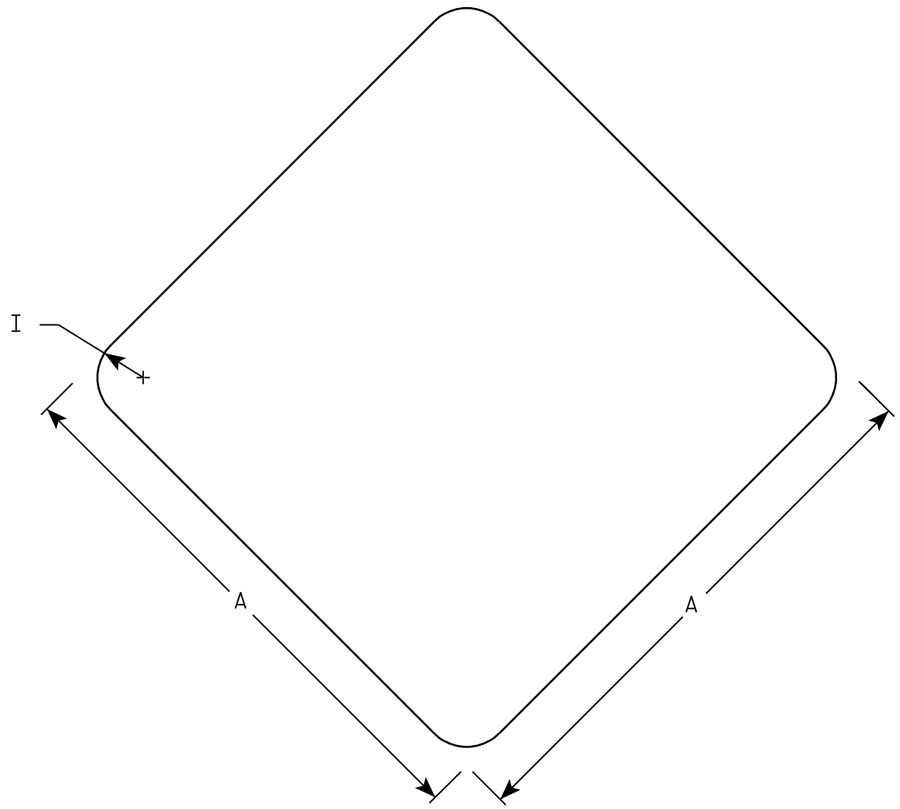
W5-52L & W5-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W5-52.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 185	E



W5-54

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12								1																		1.0
2S	18								1 ½																		2.25
2M	18								1 ½																		2.25
3																											
4																											
5																											

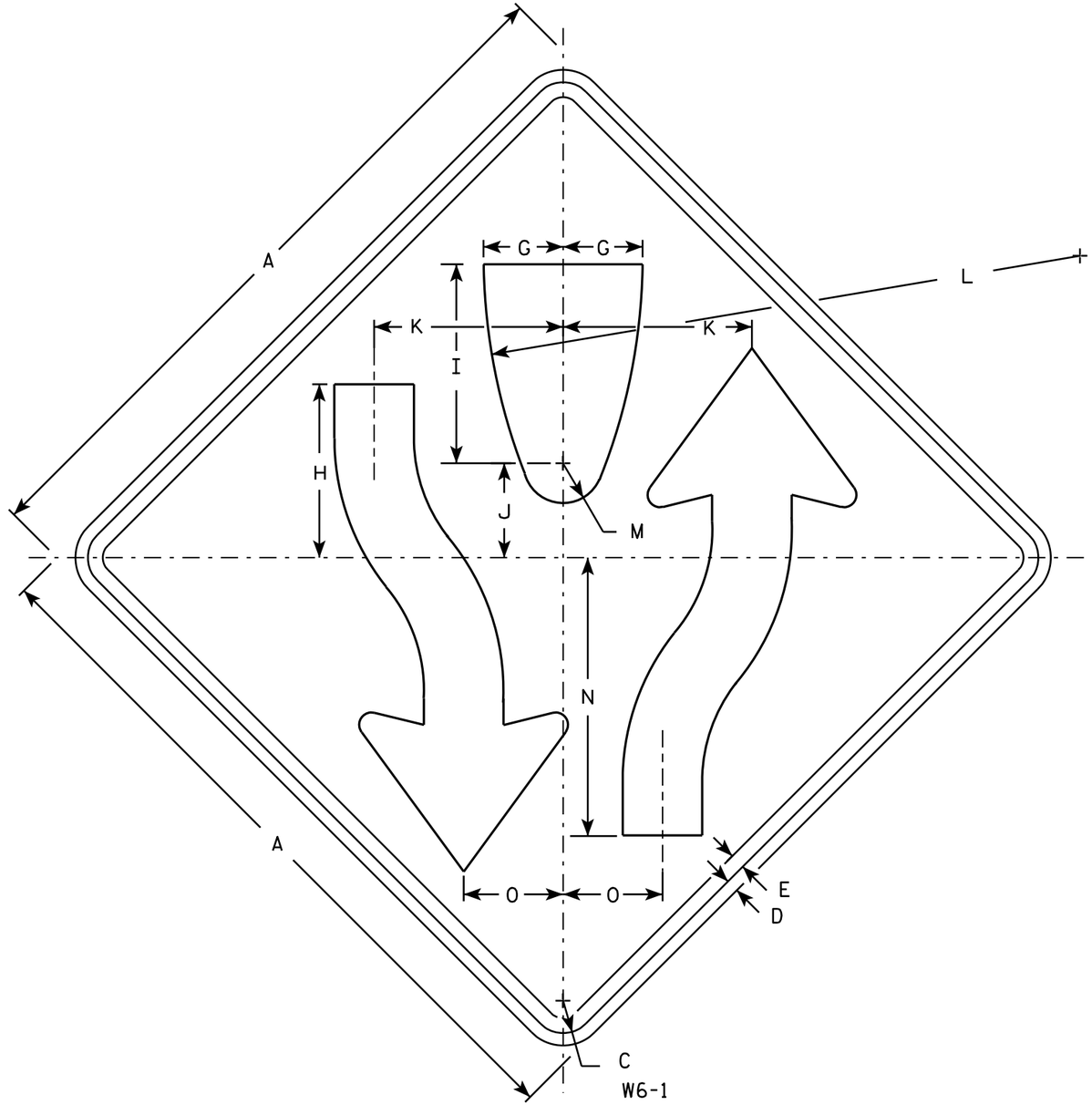
STANDARD SIGN
W5-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

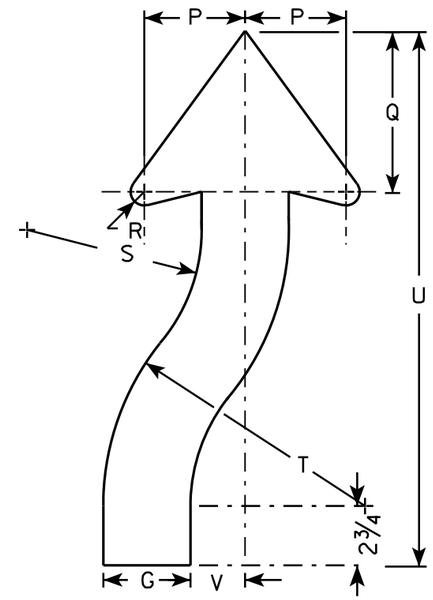
DATE 11/3/10 PLATE NO. W5-54.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 186 | E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W6-2 same as W6-1 but is rotated 180° when mounted.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3 1/4	8	8 1/4	4 1/8	7 7/8	25	1 3/4	11 5/8	4 1/8	3 7/8	6 3/4	5/8	6 5/8	9 7/8	21 5/8	2					6.25
2S	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
2M	36		1 5/8	5/8	3/4		4	8 3/4	10	4 3/4	9 1/2	30	2	14	5	4 5/8	7 3/8	7/8	8	12	24 1/2	2 1/2					9.0
3																											
4	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0
5	48		2 1/4	3/4	1		5 3/8	11 5/8	13 3/8	6 3/8	12 5/8	40	2 5/8	18 5/8	6 5/8	6 1/4	9 7/8	1 1/4	10 5/8	16	32 5/8	3 3/8					16.0

STANDARD SIGN
W6-1 & W6-2

WISCONSIN DEPT OF TRANSPORTATION

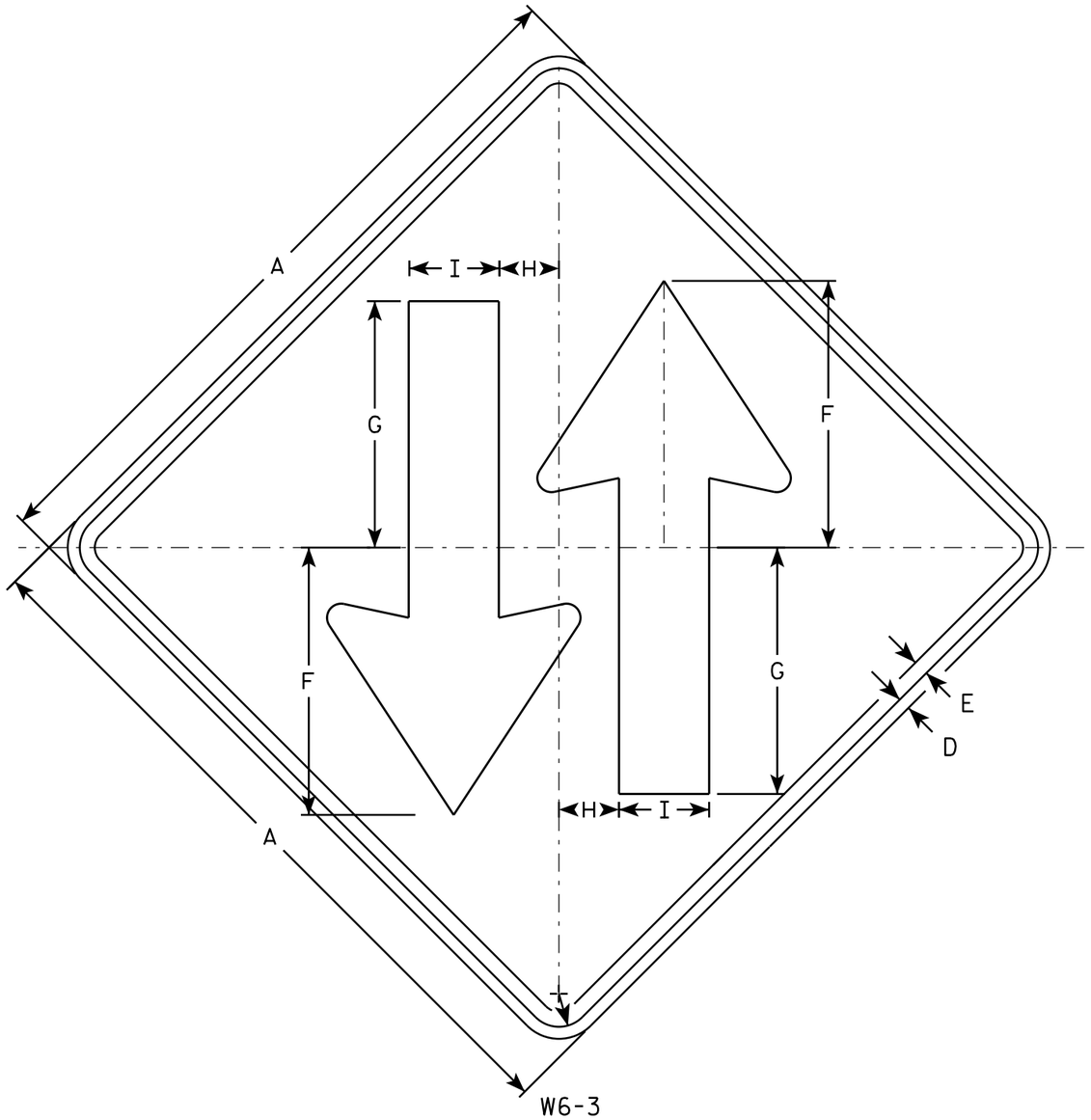
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-1.14

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 187	E

7

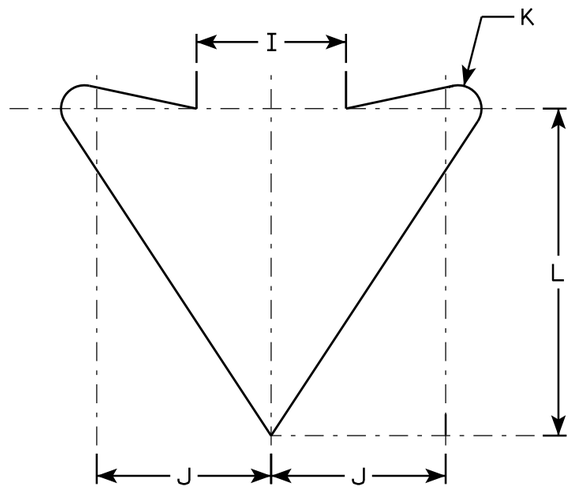
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W61.DGN PLOT DATE : 12-MAR-2013 14:02 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.946657:1.000000
WISDOT/CADDS SHEET 42



W6-3

NOTES

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



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	11 1/8	10 1/4	2 1/2	3 3/4	4 3/8	5/8	8 1/4															6.25
2S	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
2M	36		1 5/8	5/8	3/4	13 3/8	12 1/4	3	4 1/2	5 1/4	3/4	9 7/8															9.0
3																											
4	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0
5	48		2 1/4	3/4	1	17 3/4	16 3/8	4	6	7	1	13 1/8															16.0

STANDARD SIGN
W6-3

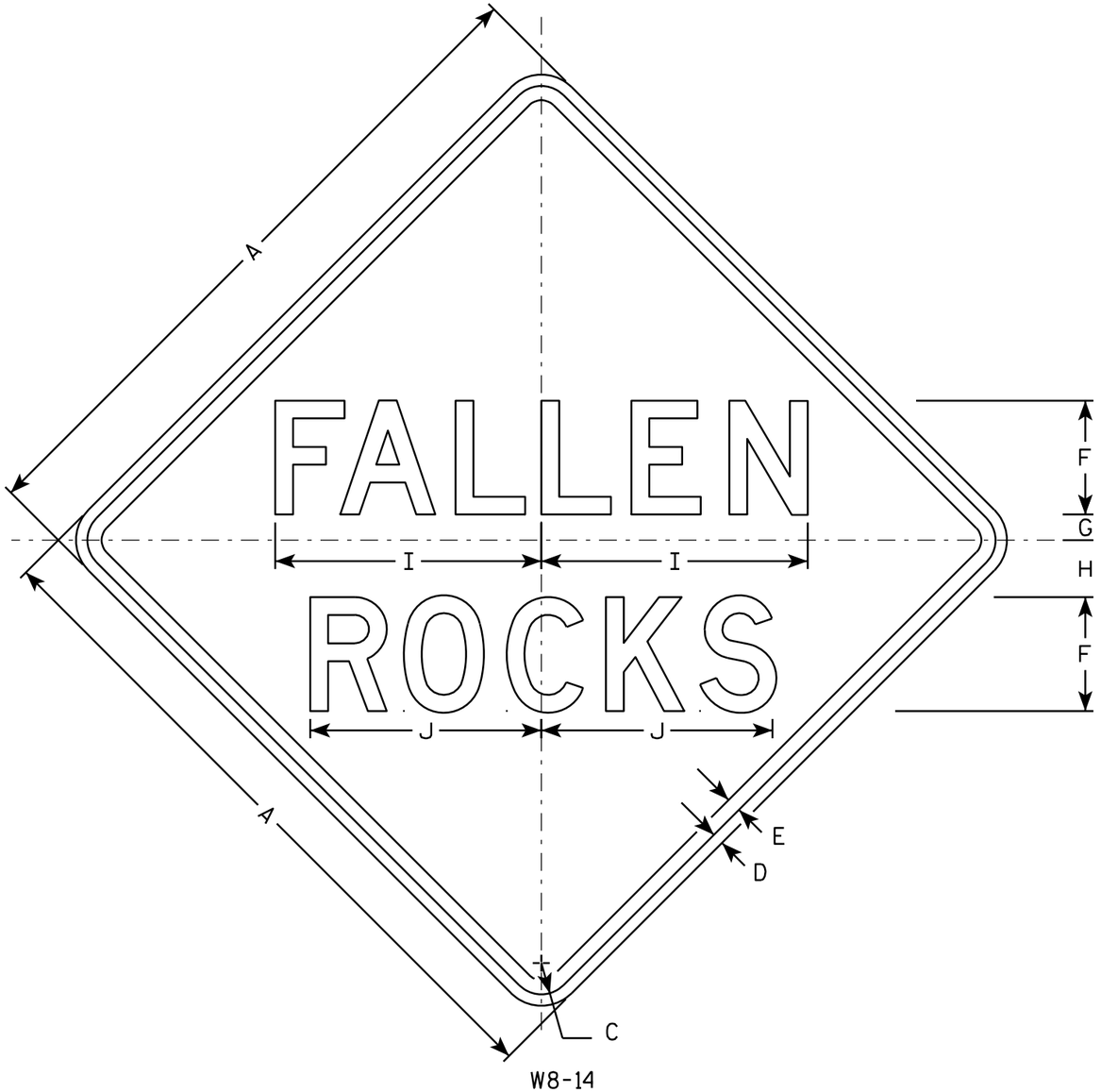
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/16 PLATE W6-3.11

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W63.DGN PLOT DATE : 10-MAR-2016 14:01 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.080757:1.000000 WISDOT/CADDS SHEET 42



W8-14

NOTES

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

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 3/8	1/2	5/8	5	1 1/8	2 1/2	11 3/4	10 1/8																	6.25
2M	36		1 5/8	5/8	3/4	6	1 3/8	3	14	12 1/8																	9.0
3	36		1 5/8	5/8	3/4	6	1 3/8	3	14	12 1/8																	9.0
4	36		1 5/8	5/8	3/4	6	1 3/8	3	14	12 1/8																	9.0
5	48		2 1/4	3/4	1	8	1 3/4	4	18 3/4	16 1/4																	16.0

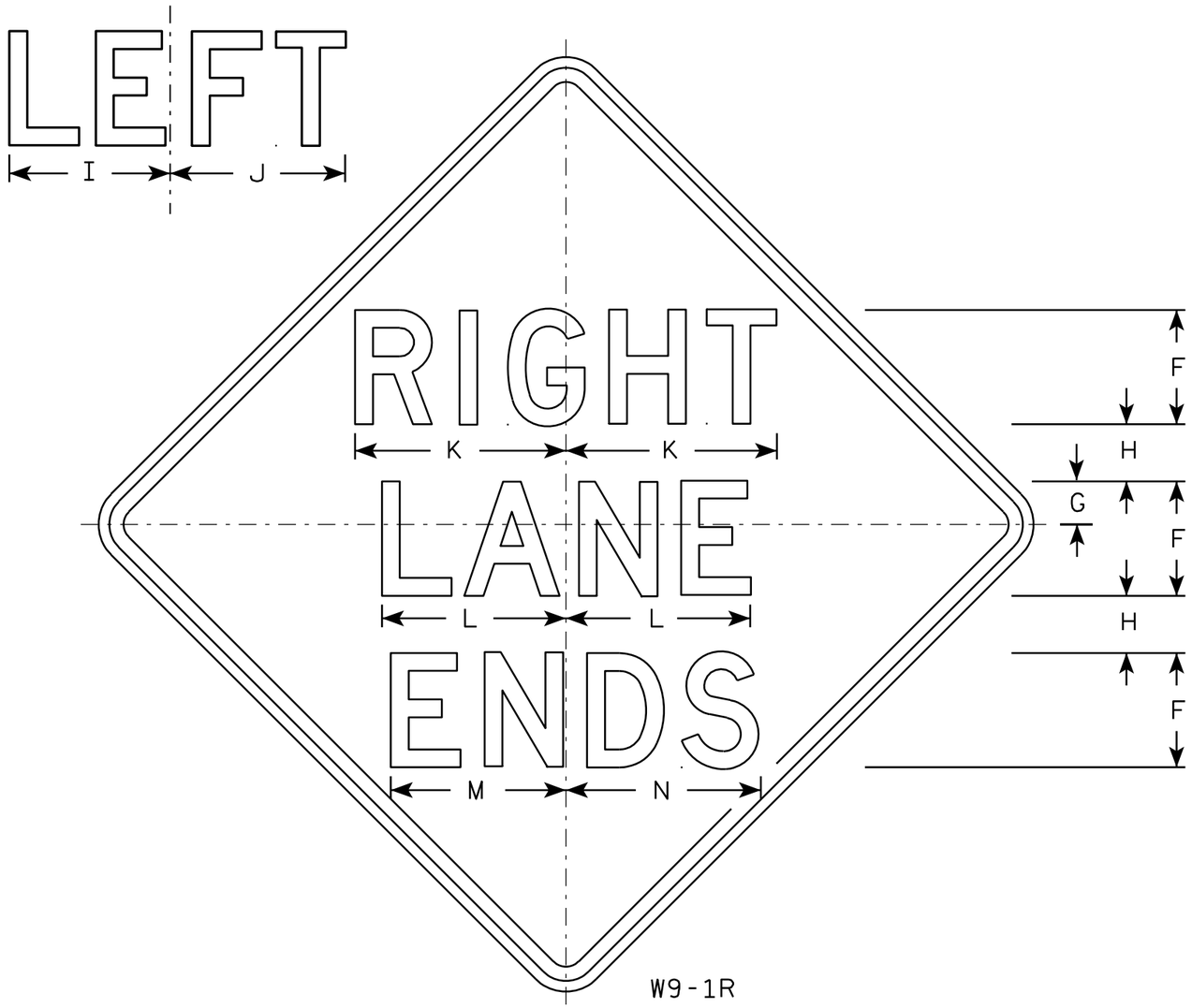
STANDARD SIGN
W8-14

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/14/13 PLATE NO. W8-14.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 189 | E



W9-1R

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	5	1 1/2	2 1/2	7 1/8	7 5/8	9 1/4	8 1/8	7 5/8	8 5/8													6.25
2S	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
2M	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
3	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
4	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
5	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0

STANDARD SIGN
W9-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 03/18/13 PLATE NO. W9-1.8

PROJECT NO:

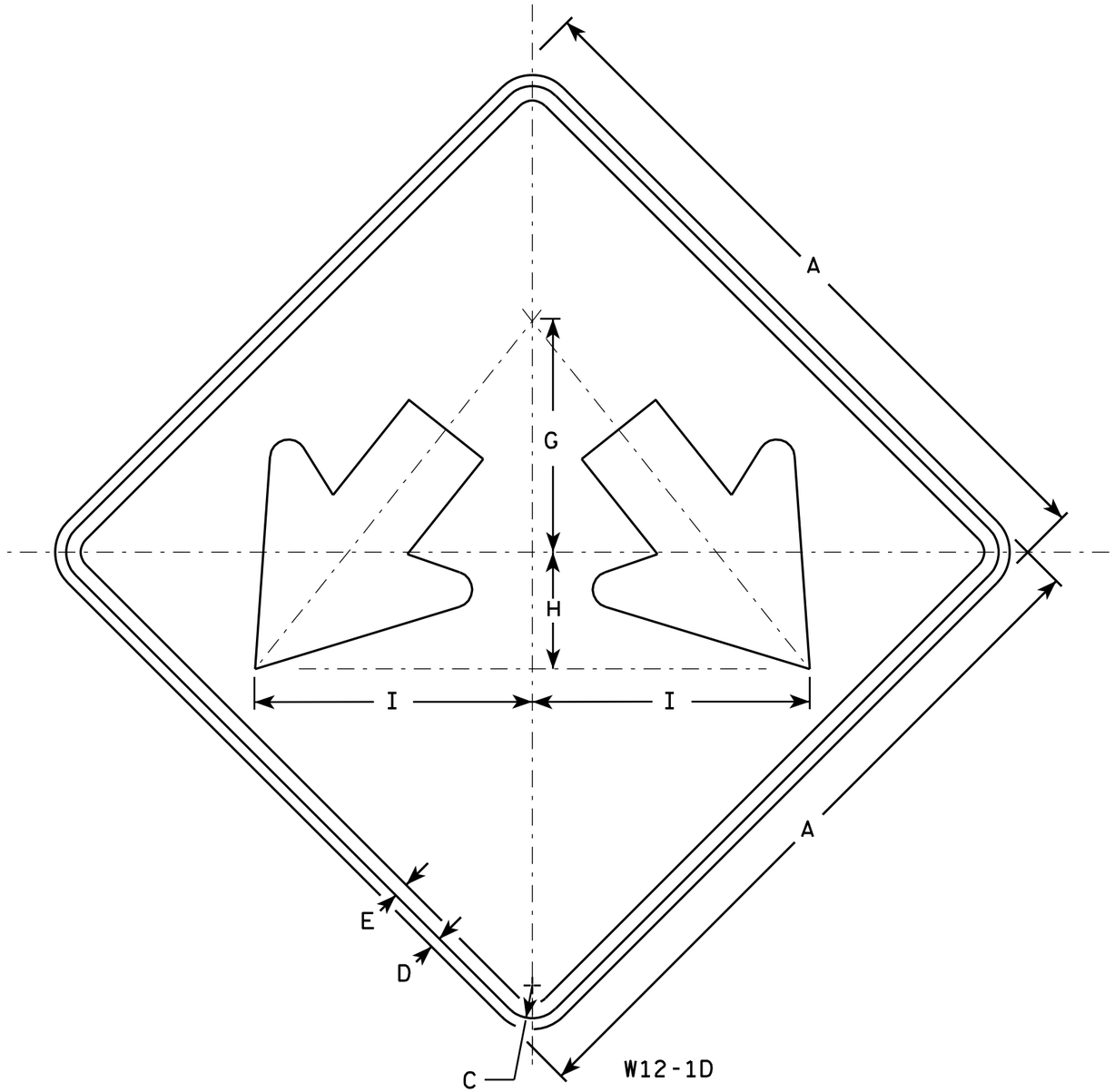
SHEET NO: 190 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W91.DGN PLOT DATE : 18-MAR-2013 11:42 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

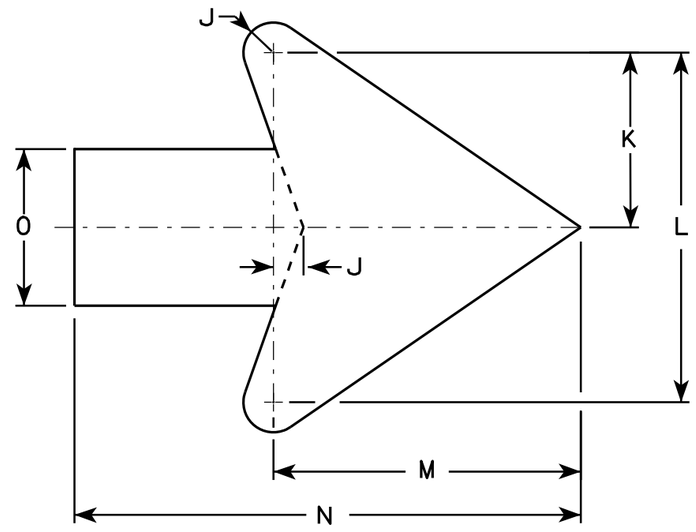
7

7



NOTES

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



Arrow Detail

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0

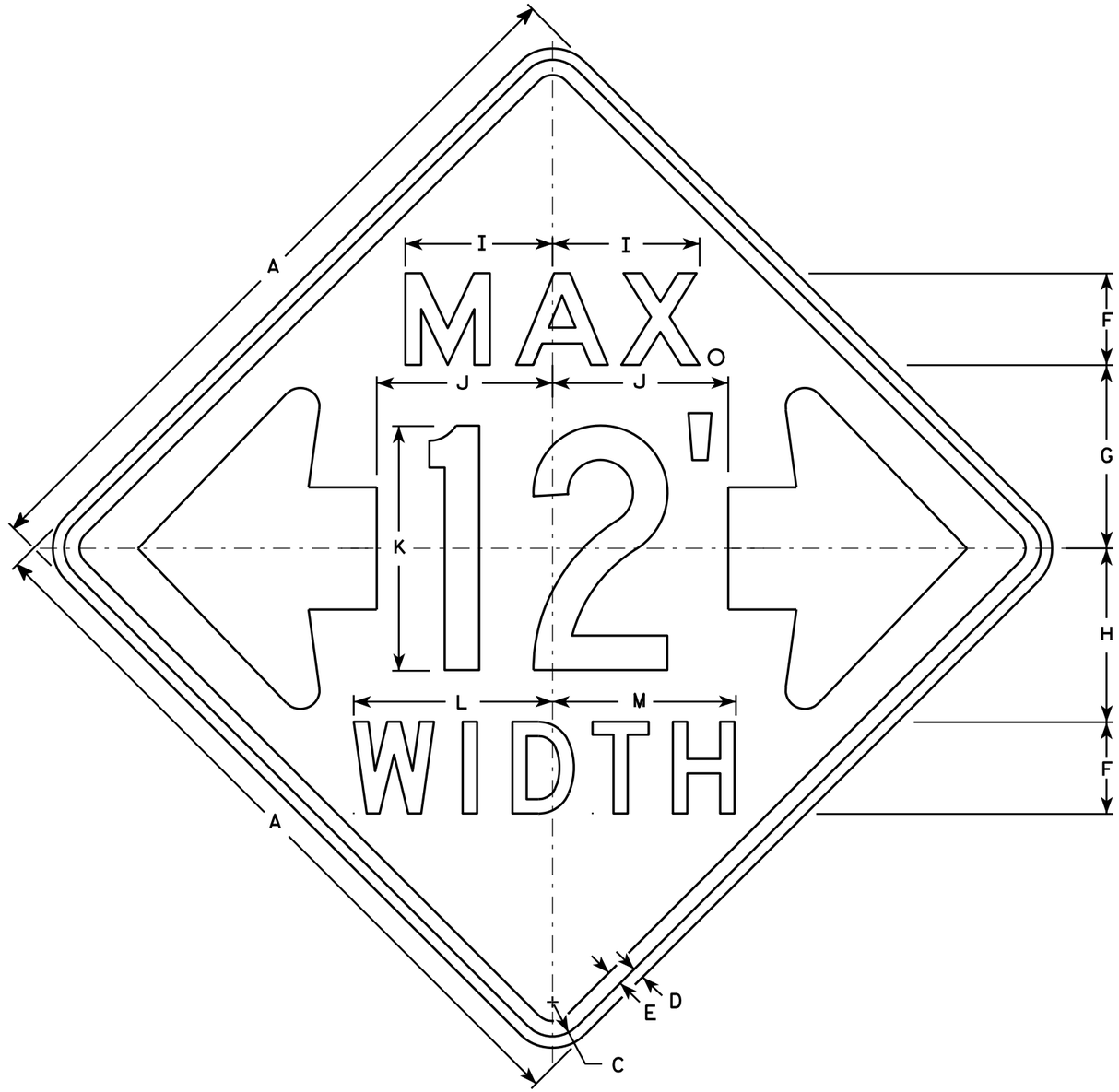
STANDARD SIGN
W12-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. W12-1D.15

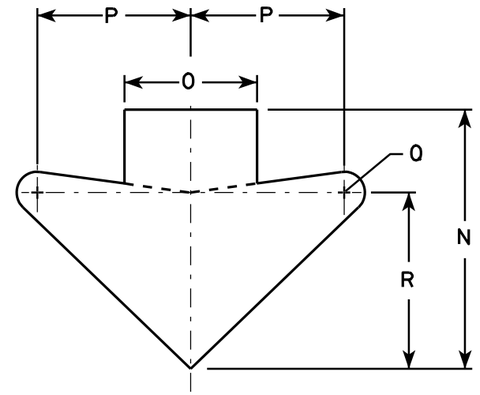
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 191	E



W12-52

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

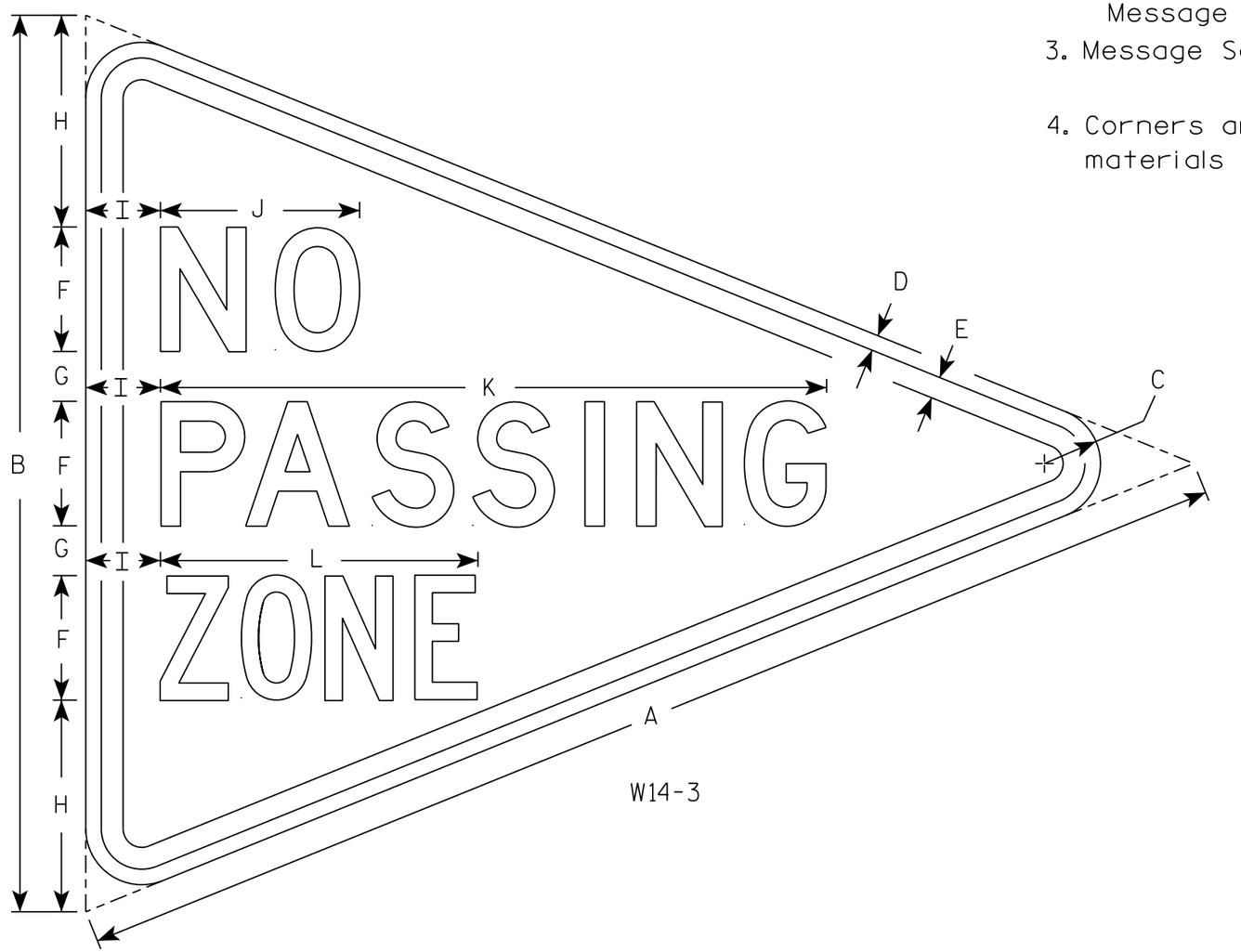
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 192 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000
WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II- Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - Lines 1 and 2 are Series D.
   Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



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															5.56
2M																											
3																											
4																											
5																											

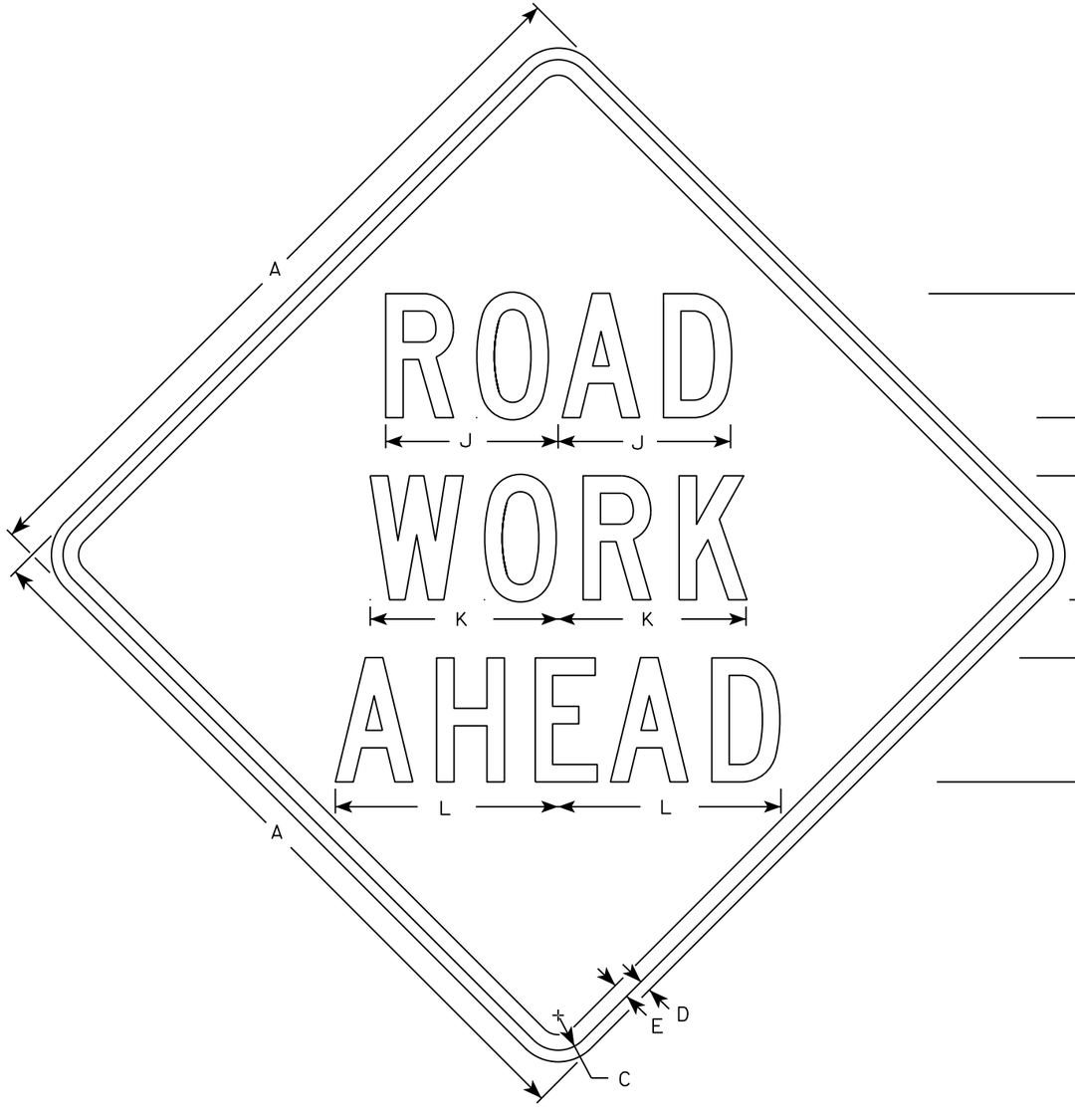
STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

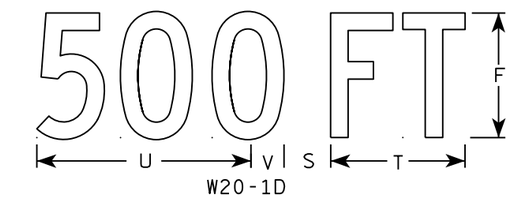
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

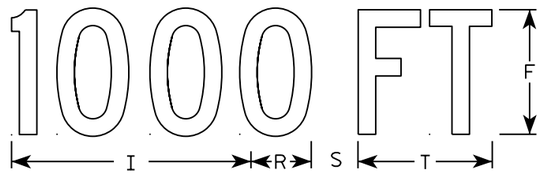
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 193 | E



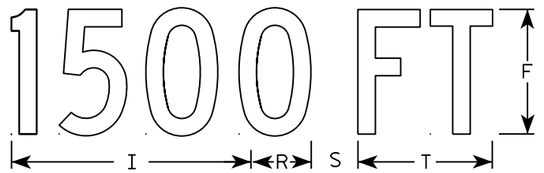
W20-1A



W20-1D



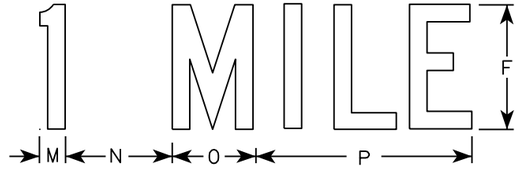
W20-1C



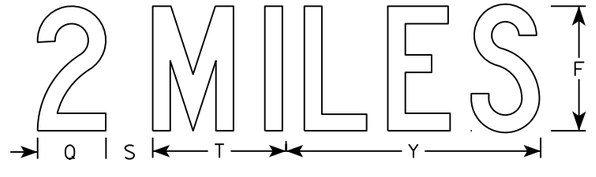
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

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

WISCONSIN DEPT OF TRANSPORTATION

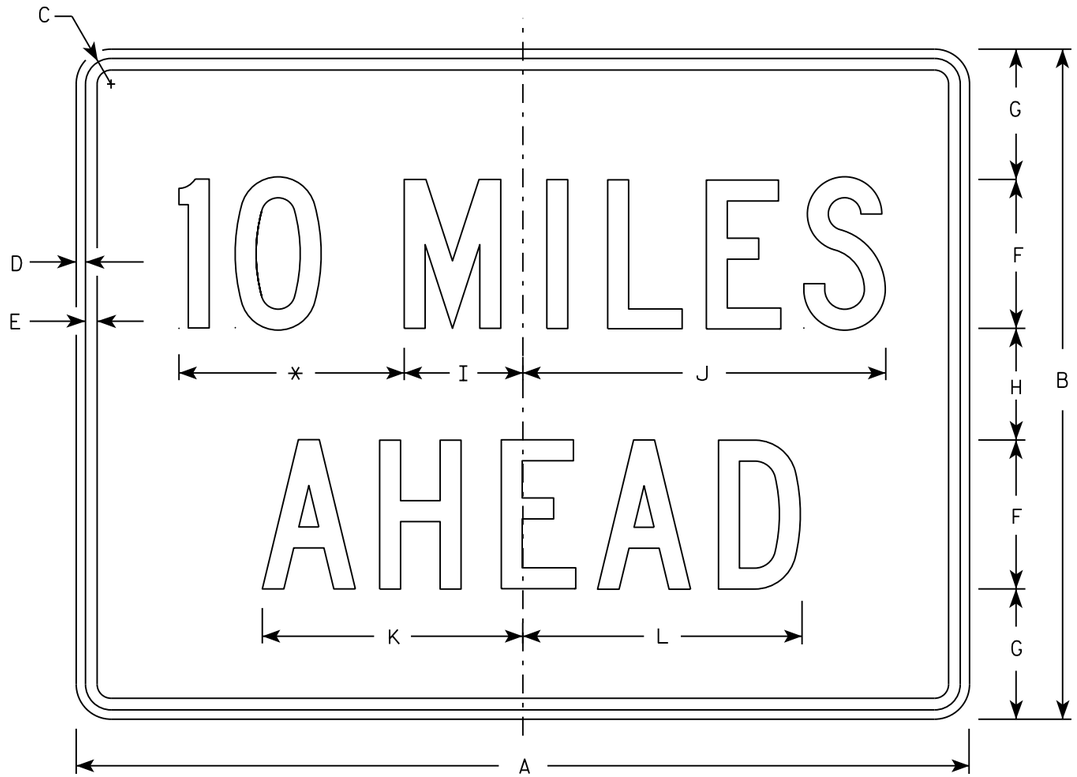
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

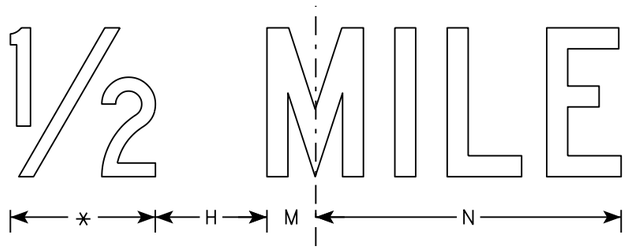
PROJECT NO:

SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



W057-52



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

* See note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
2S	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0

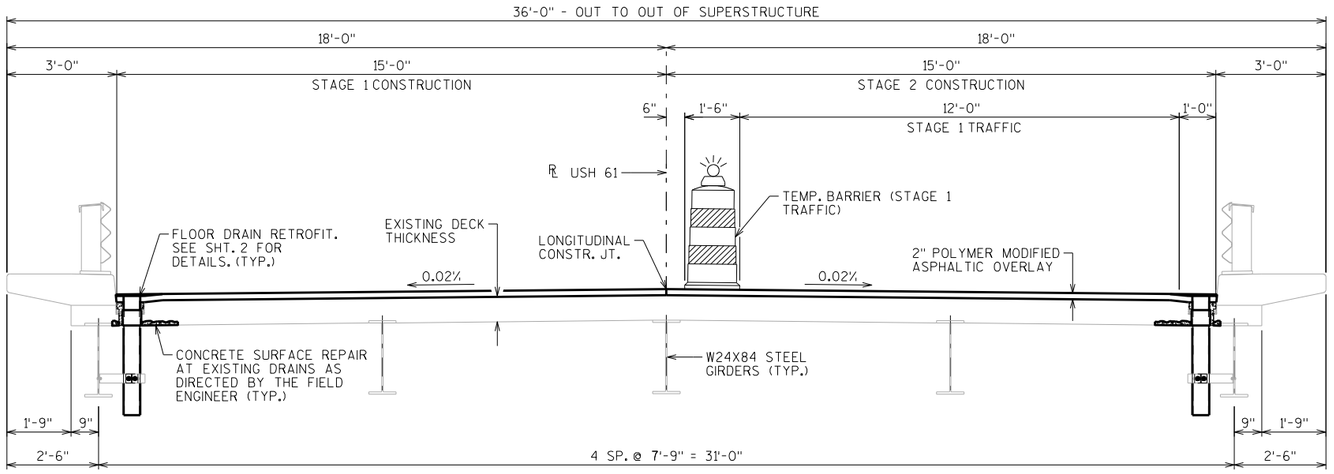
STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W057-52.2

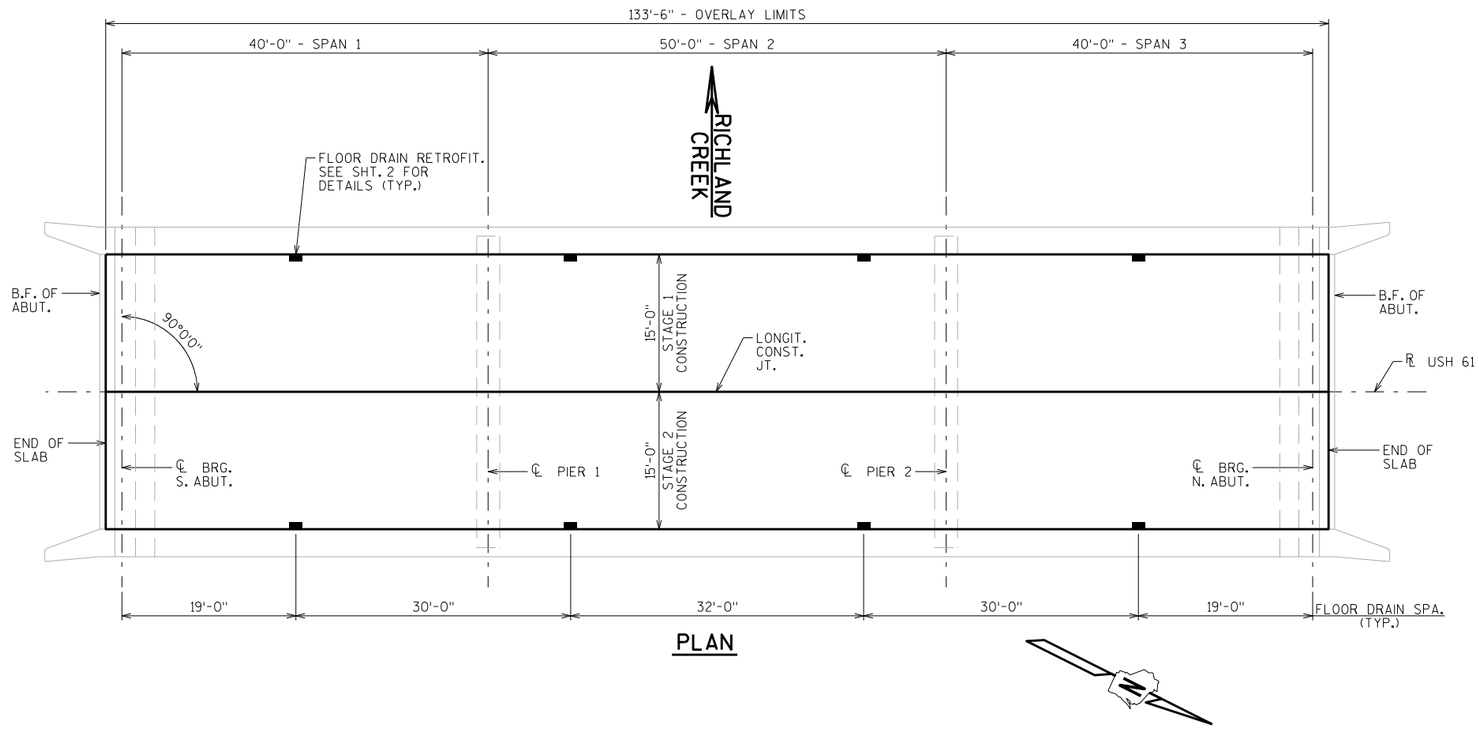
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 195	E



CROSS-SECTION THRU ROADWAY

(STAGE 1 TRAFFIC IS SHOWN, STAGE 2 TRAFFIC IS SIMILAR)
(LOOKING NORTH)

2" AVERAGE OVERLAY THICKNESS



PLAN

DESIGN DATA

LIVE LOAD:
INVENTORY RATING: HS-12
OPERATIONAL RATING: HS-21
MAXIMUM STANDARD PERMIT VEHICLE LOAD = 140 KIPS.

MATERIAL PROPERTIES:

CONCRETE MASONRY: SLAB —— f'c = 4,000 P.S.I.
ALL OTHER —— f'c = 3,500 P.S.I.

STATE PROJECT NUMBER

1650-02-60

TRAFFIC VOLUME

USH 61
A.D.T.=3200 (2035)
R.D.S.=55 M.P.H.

TOTAL ESTIMATED QUANTITIES

509.0301	PREPARATION DECKS TYPE 1	5	SY
509.1500	CONCRETE SURFACE REPAIR	15	SF
509.3500.S	HMA OVERLAY POLYMER-MODIFIED	48	TONS
SPV.0060	PVC DRAIN RETROFIT	8	EACH
SPV.0090	SAWING PAVEMENT DECK PREPARATION AREAS	30	LF

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ANY EXCAVATION NECESSARY TO COMPLETE THE OVERLAY AT THE ABUTMENTS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "HMA OVERLAY POLYMER-MODIFIED".

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 2" PLACED ABOVE THE DECK SURFACE. EXPECTED AVERAGE OVERLAY THICKNESS IS 2½" (OR AS GIVEN ON THE PLANS). IF EXPECTED OVERLAY THICKNESS IS EXCEEDED BY MORE THAN ½", CONTACT THE STRUCTURES DESIGN SECTION.

THE PLAN QUANTITY FOR THE BID ITEM "HMA OVERLAY POLYMER-MODIFIED" IS BASED ON THE AVERAGE OVERLAY THICKNESS.

PREPARATION DECKS TYPE 1 IS BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION REPAIRS SHALL BE FILLED WITH MATERIAL FROM THE DEPARTMENT'S APPROVED PRODUCTS LIST FOR RAPID SETTING CONCRETE PATCH MATERIAL. THIS MATERIAL TO BE CONSIDERED INCIDENTAL TO "PREPARATION DECKS TYPE 1".

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAWCUT.

PREPARATION DECKS TYPE 1 AND CONCRETE SURFACE REPAIR AREAS SHALL BE DETERMINED BY THE FIELD ENGINEER.

CONCRETE SURFACE REPAIR IS REQUIRED AT FLOOR DRAINS AS DIRECTED BY THE FIELD ENGINEER.

LIST OF DRAWINGS

1. POLYMER MODIFIED ASPHALTIC OVERLAY
2. FLOOR DRAIN DETAILS

STRUCTURE DESIGN CONTACTS:

NICK RICE (608) 266-5092
AARON BONK (608) 261-0261

NO.	DATE	REVISION	BY

Plans Prepared By **WISDOT**
BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 1/23/17
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-12-19

USH 61 OVER RICHLAND CREEK

COUNTY CRAWFORD — TOWN ~~CITY/VILLAGE~~ MARIETTA

DESIGN SPEC. REHABILITATION — N/A

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
NAR	AMB	NAR/DDS	AMB

POLYMER MODIFIED ASPHALTIC OVERLAY

SHEET 1 OF 2

196

I.D. 1650-02-30C

DATE: AUG. 2016

SCALE = 8

8

8

STATE PROJECT NUMBER

1650-02-60

DRAIN NOTES

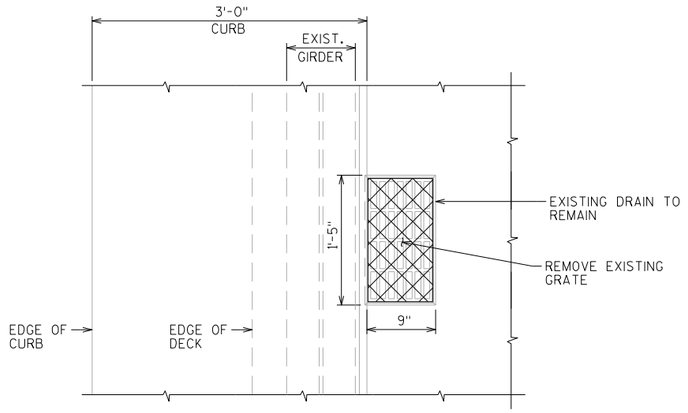
THE BID-ITEM "PVC DRAIN RETROFIT" WILL BE MEASURED AS EACH INDIVIDUAL UNIT ACCEPTABLY COMPLETED.

FURNISH CONCRETE TO FILL IN EXISTING DRAINS ACCORDING TO SECTION 509.2(4) OF THE STANDARD SPEC.

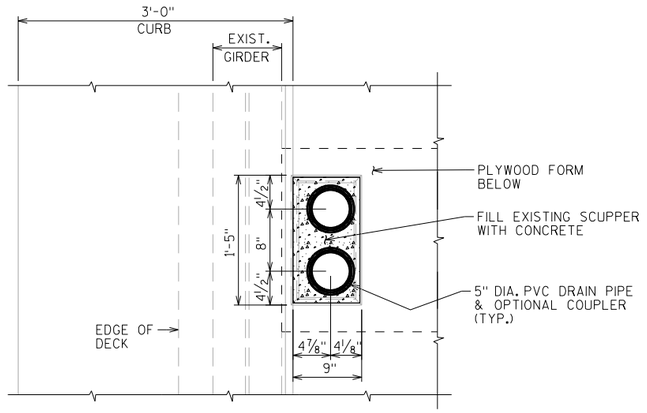
CONCRETE QUANTITY TO BE PAID FOR UNDER THE ITEM "CONCRETE MASONRY DECK PATCHING".

PLACE THE CONCRETE AND CONSOLIDATE BY INTERNAL VIBRATION. STRIKE OFF TO THE EXISTING DECK ELEVATION BEFORE PLACING THE OVERLAY.

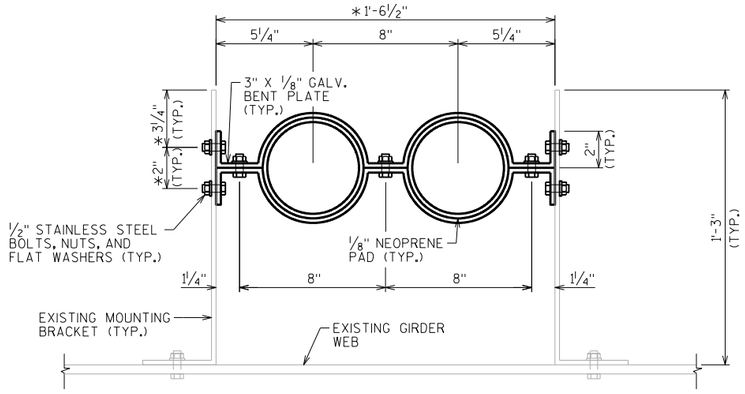
VERIFY THE TOP OF PVC PIPE ELEVATIONS TO ASSURE POSITIVE FLOW PRIOR TO TRIMMING TO PROPER LENGTH AND FINISHING WITH THE PMA OVERLAY.



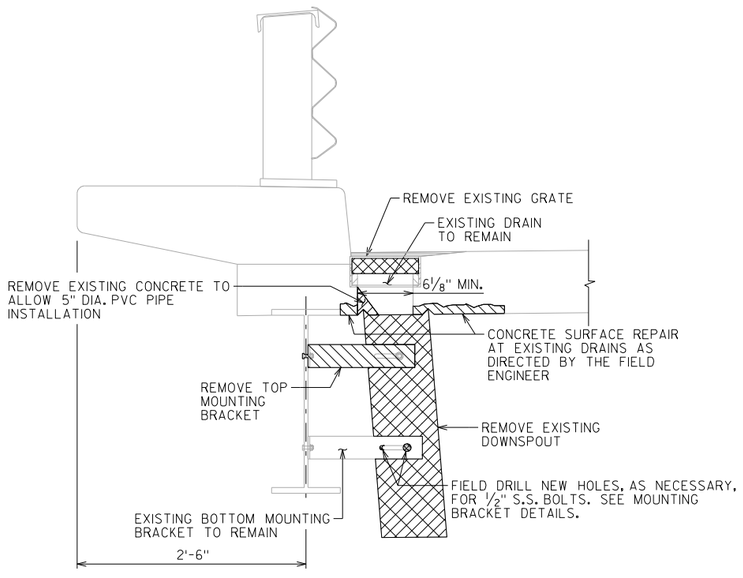
PLAN
(SHOWING EXISTING DRAINAGE SCUPPER)



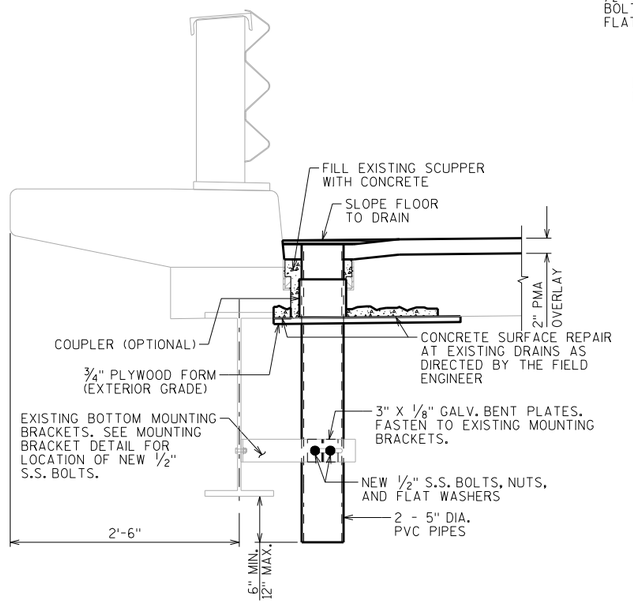
PLAN
(SHOWING PROPOSED DRAINAGE SCUPPER)



MOUNTING BRACKET DETAIL
*FIELD VERIFY



EXISTING SECTION THRU DRAIN



PROPOSED SECTION THRU DRAIN

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-12-19

DRAWN BY NAR/DDS | PLANS CK'D. AMB

FLOOR DRAIN DETAILS

SHEET 2

197

SCALE = 12

8

8

EARTHWORK DATA TABLE

STATION	Area (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
	Cut	Salvaged/Unusable Pavement Material	Fill	Cut (Note 1)	Salvaged/Unusable Pavement Material (Note 2)	Fill (Note 3)	Cut 1.00 (Note 1)	Expanded Fill 1.25 (Note 4)	Mass Ordinate (Note 5)
458+13	6.72	0	9.00	0.00	0	0.00	**0**	**0**	0
458+50	4.04	0	148.00	7.37	0	107.57	**7**	**134**	-127
459+00	5.89	0	224.00	9.19	0	344.44	**17**	**565**	-548
459+50	6.58	0	314.00	11.55	0	498.15	**28**	**1,188**	-1,160
460+00	7.17	0	311.00	12.73	0	578.70	**41**	**1,911**	-1,870
460+50	7.65	0	161.00	13.72	0	437.04	**55**	**2,457**	-2,403
461+00	9.74	0	71.00	16.10	0	214.81	**71**	**2,726**	-2,655
461+50	9.42	0	4.00	17.74	0	69.44	**88**	**2,813**	-2,724
461+63	9.38	0	0.00	4.53	0	0.96	**93**	**2,814**	-2,721
Total				93	0	2251			

Notes:
1. Cut
2. Salvaged/Unusable Pavement Material
3. Fill
4. Expanded Fill
5. Mass Ordinate

Elevations to be Field Verified

Post 1



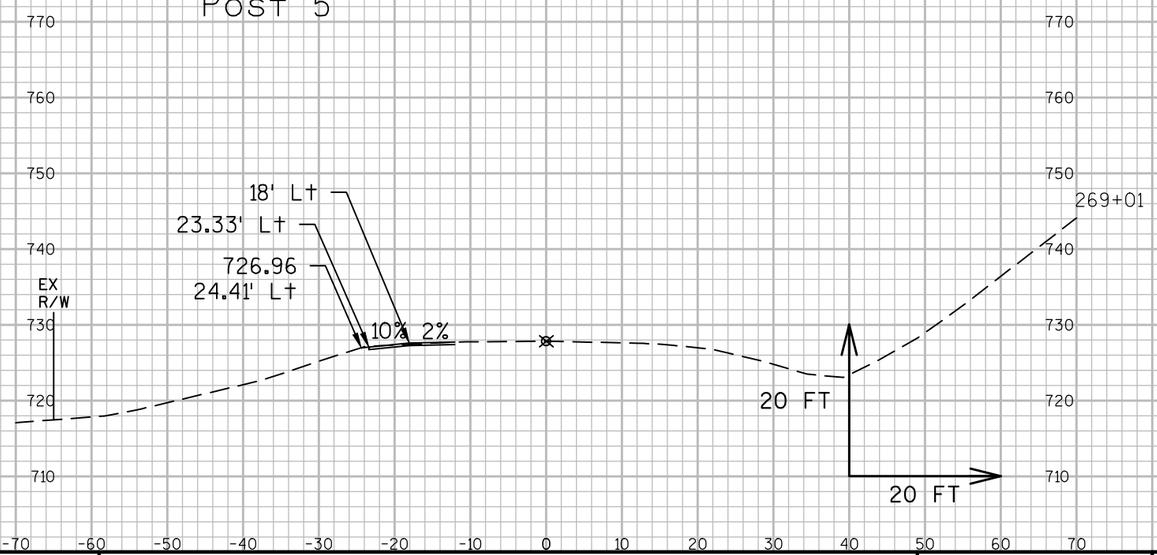
Post 9



Transition



Post 5



9

9

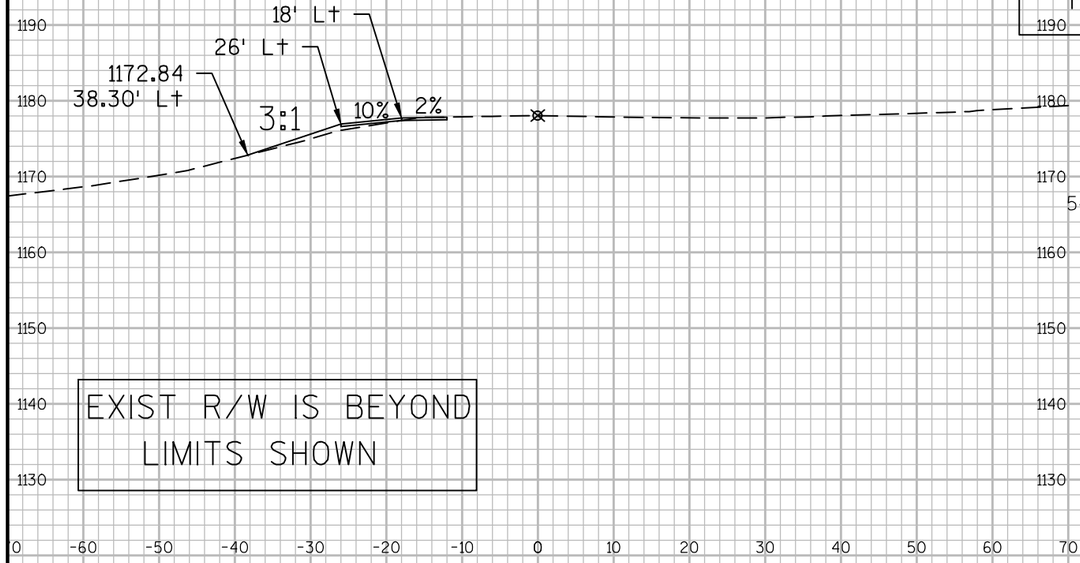
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CROSS SECTIONS: USH 61 - BEAMGUARD EAT CROSS SECTIONS	SHEET 199 E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\090201-XS-BEAM GUARD (LT SIDE) FINAL.DWG
LAYOUT NAME - 090201-XS-BEAM GUARD (LT SIDE) FINAL - SECTION SHEET - (48)

PLOT DATE : 3/29/2017 10:32 AM PLOT BY : DAVIDSON, JONATHAN BPLOT NAME : PLOT SCALE : 1 IN:20 FT

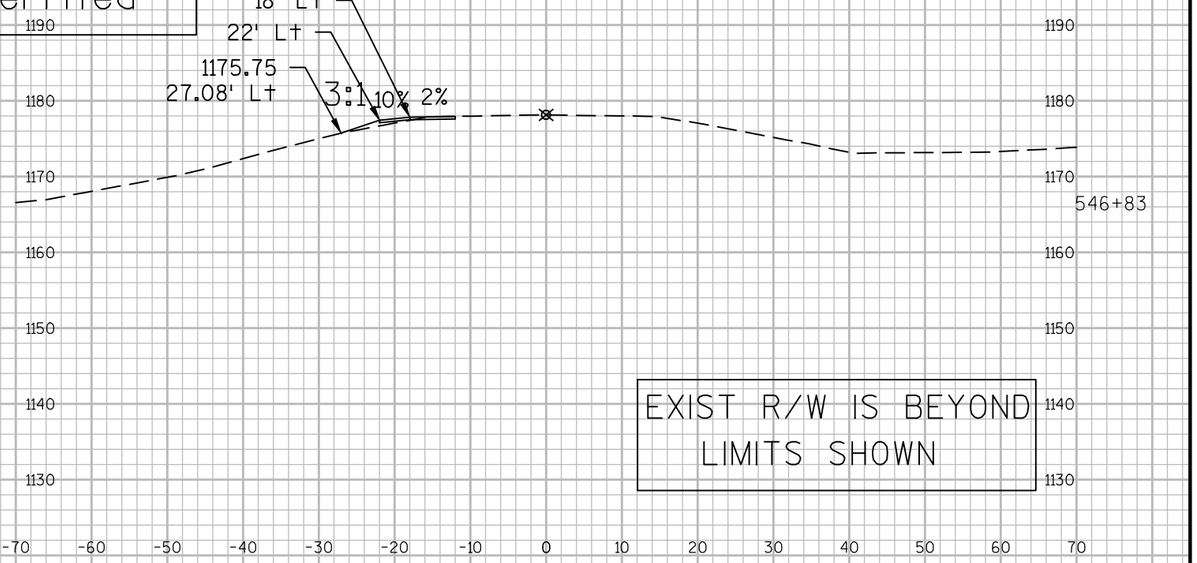
WISDOT/CADDS SHEET 49

Post 1

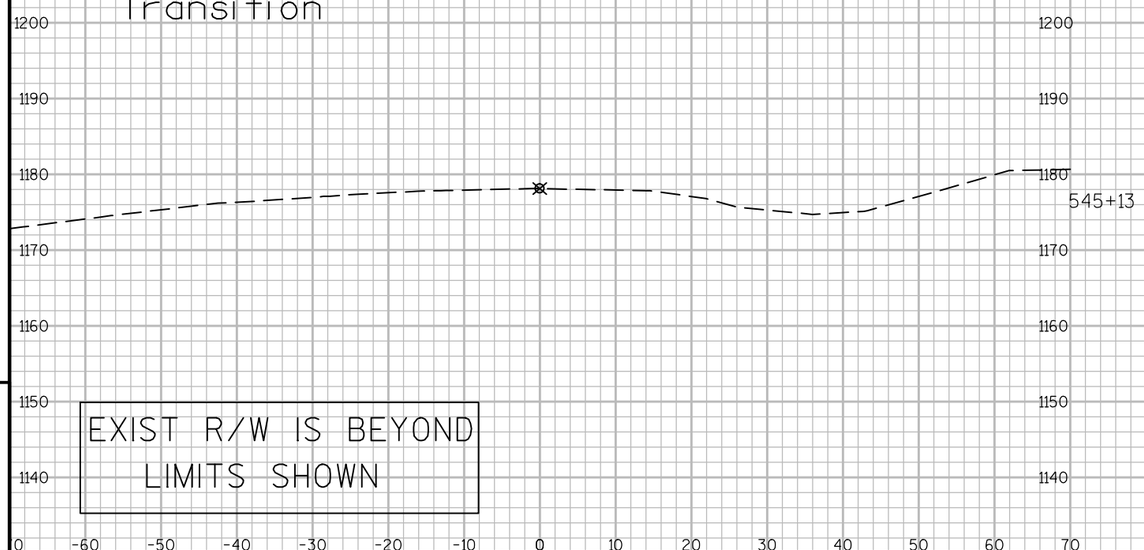


Elevations to be Field Verified

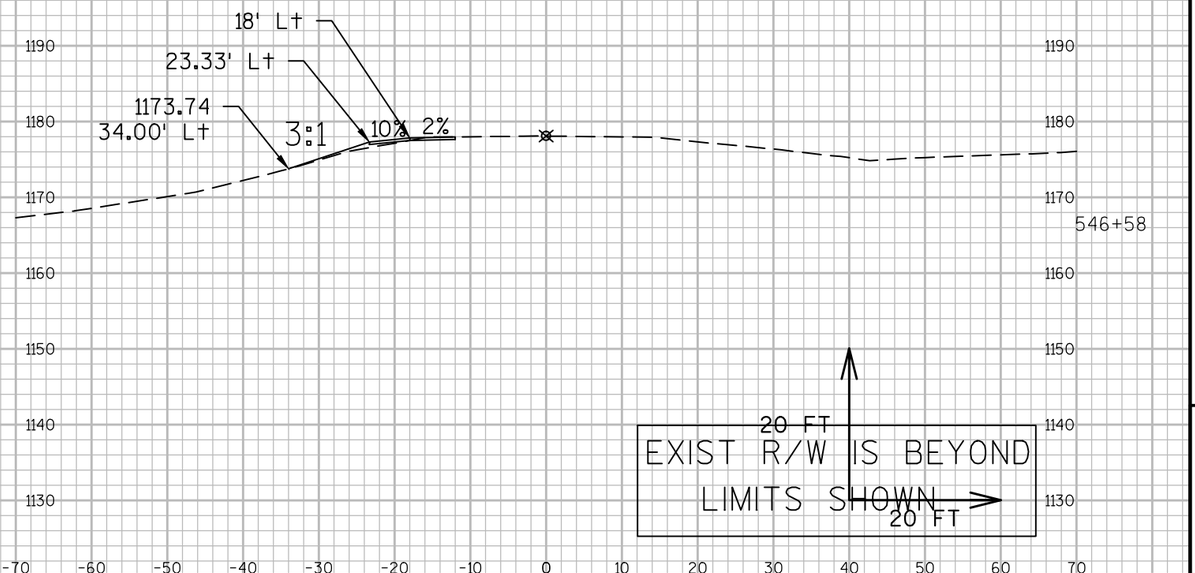
Post 9



Transition



Post 5



9

9

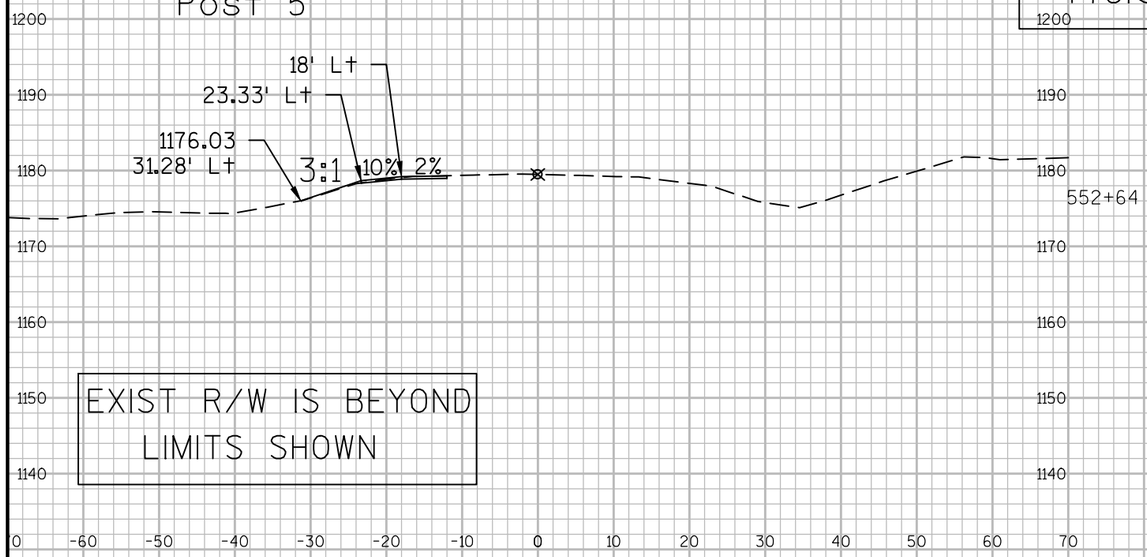
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CROSS SECTIONS: USH 61 - BEAMGUARD EAT CROSS SECTIONS	SHEET 200	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\090201-XS-BEAM GUARD (LT SIDE) FINAL.DWG
LAYOUT NAME - 090201-XS-BEAM GUARD (LT SIDE) FINAL - SECTION SHEET - (55)

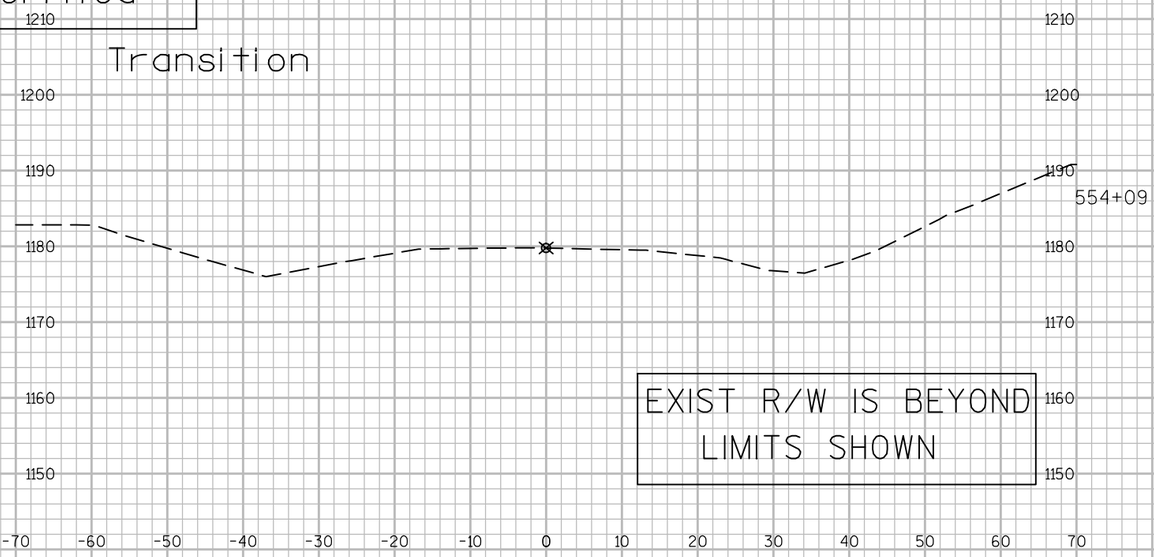
PLOT DATE : 3/29/2017 10:32 AM PLOT BY : DAVIDSON, JONATHAN BPLOT NAME : PLOT SCALE : 1 IN:20 FT

Elevations to be Field Verified

Post 5



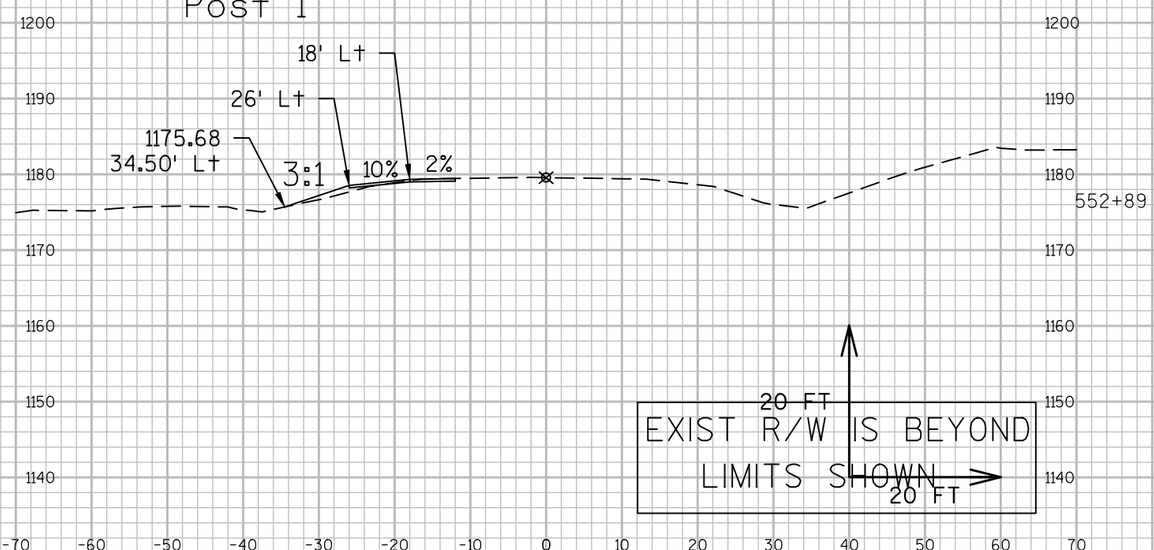
Transition



Post 9



Post 1



9 9

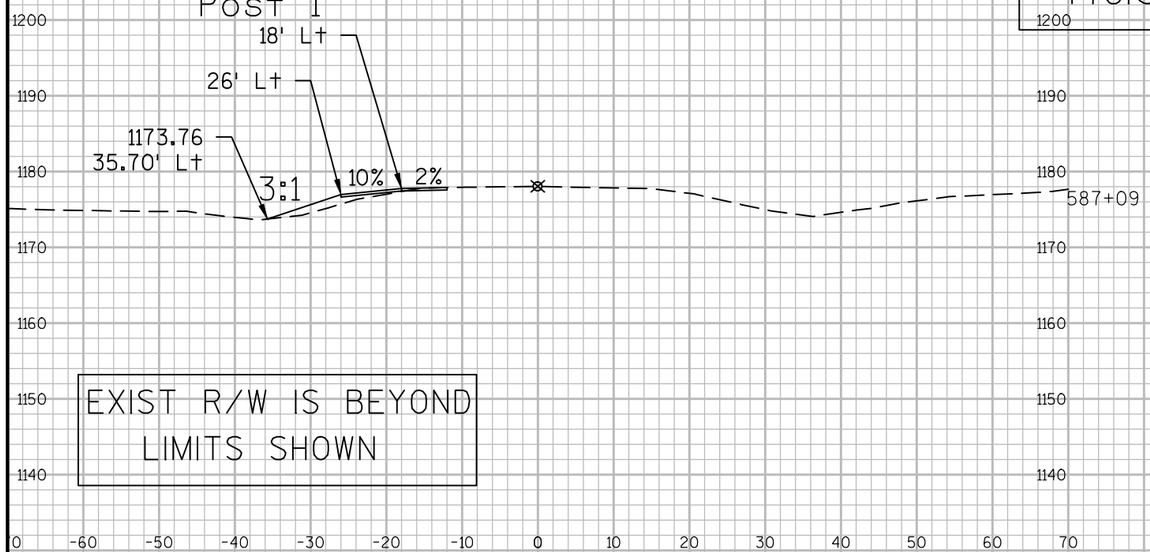
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CROSS SECTIONS: USH 61 - BEAMGUARD EAT CROSS SECTIONS	SHEET 201	E

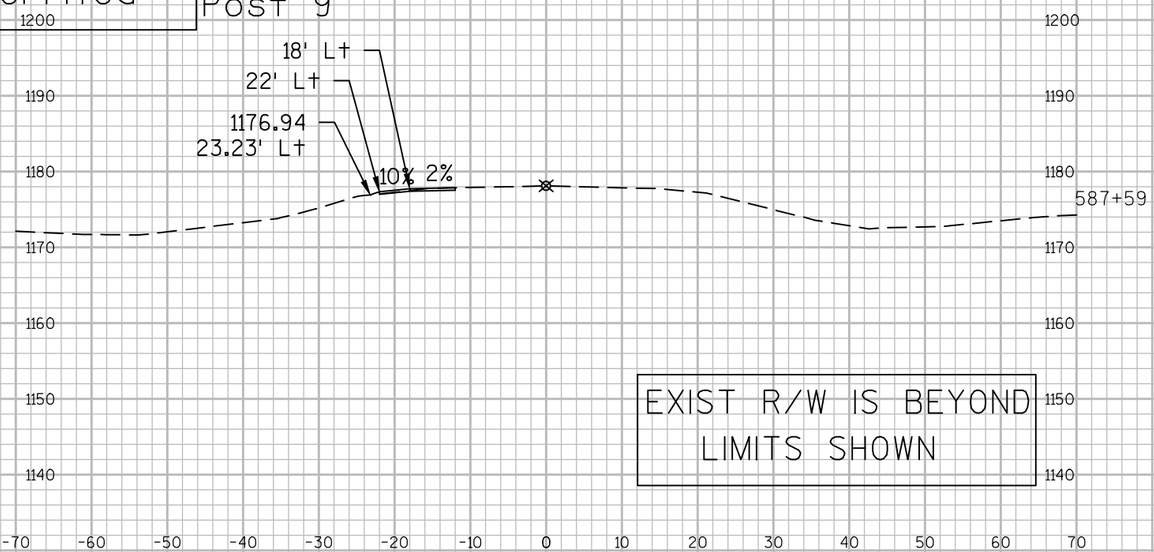
FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\090201-XS-BEAM GUARD (LT SIDE) FINAL.DWG
LAYOUT NAME - 090201-XS-BEAM GUARD (LT SIDE) FINAL - SECTION SHEET - (56)

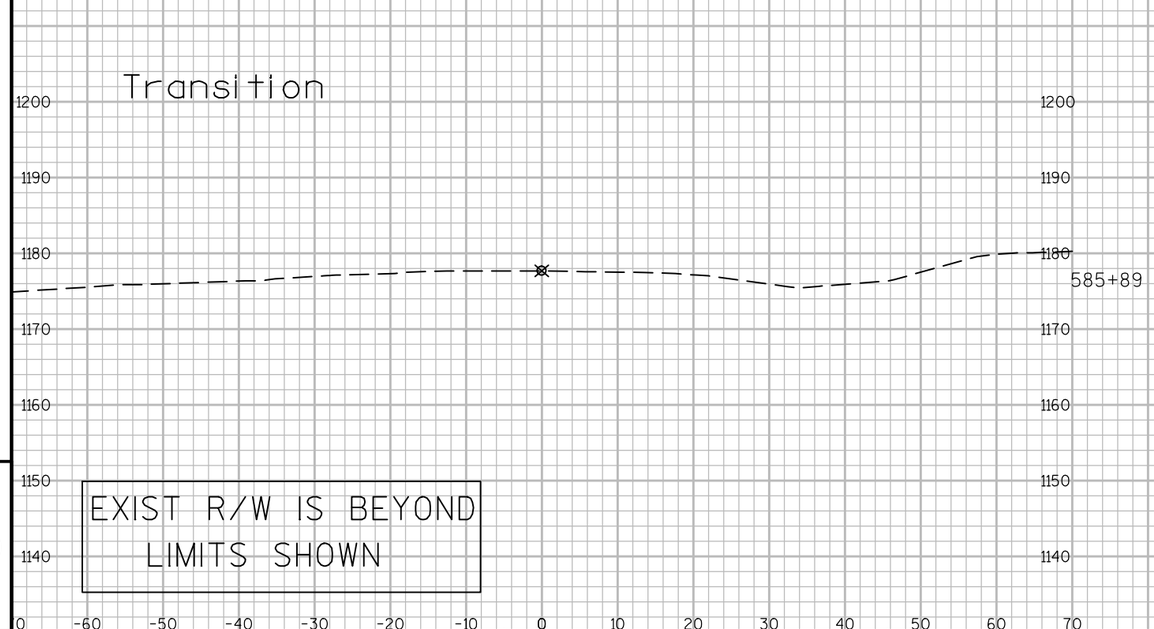
PLOT DATE : 3/29/2017 10:32 AM PLOT BY : DAVIDSON, JONATHAN BPLOT NAME : PLOT SCALE : 1 IN:20 FT

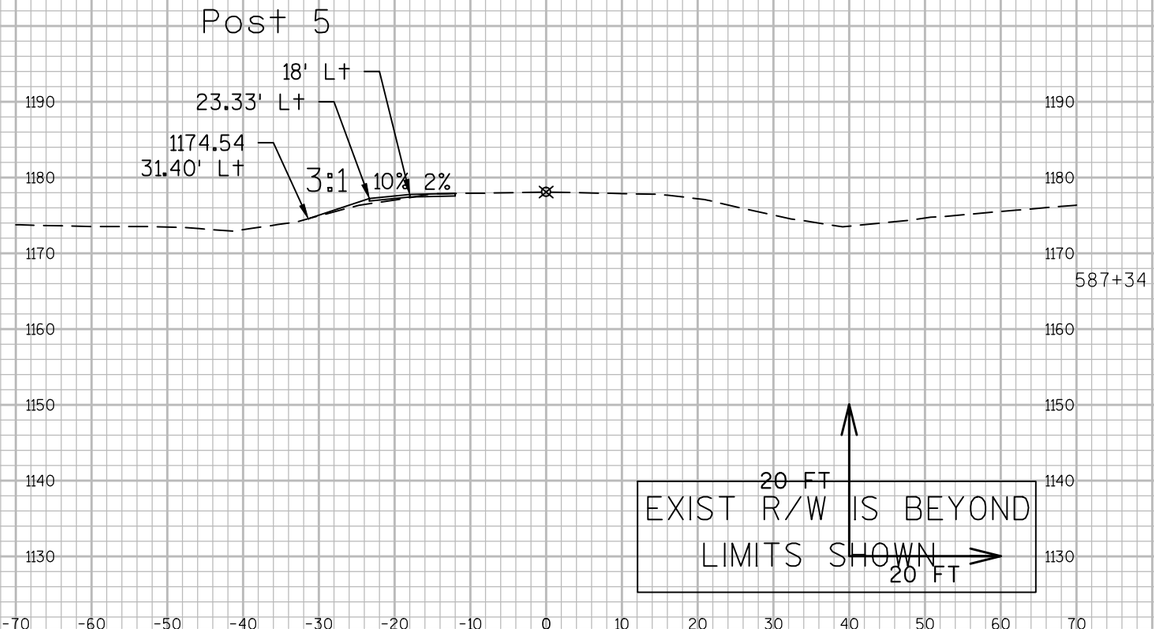
WISDOT/CADDS SHEET 49

Elevations to be Field Verified









9 9

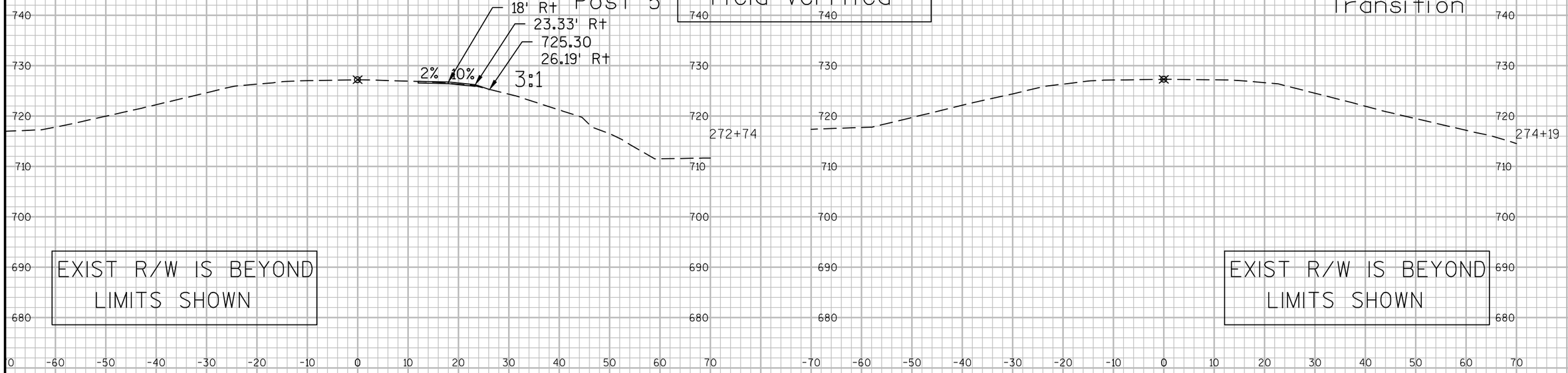
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CROSS SECTIONS: USH 61 - BEAMGUARD EAT CROSS SECTIONS	SHEET 202 E

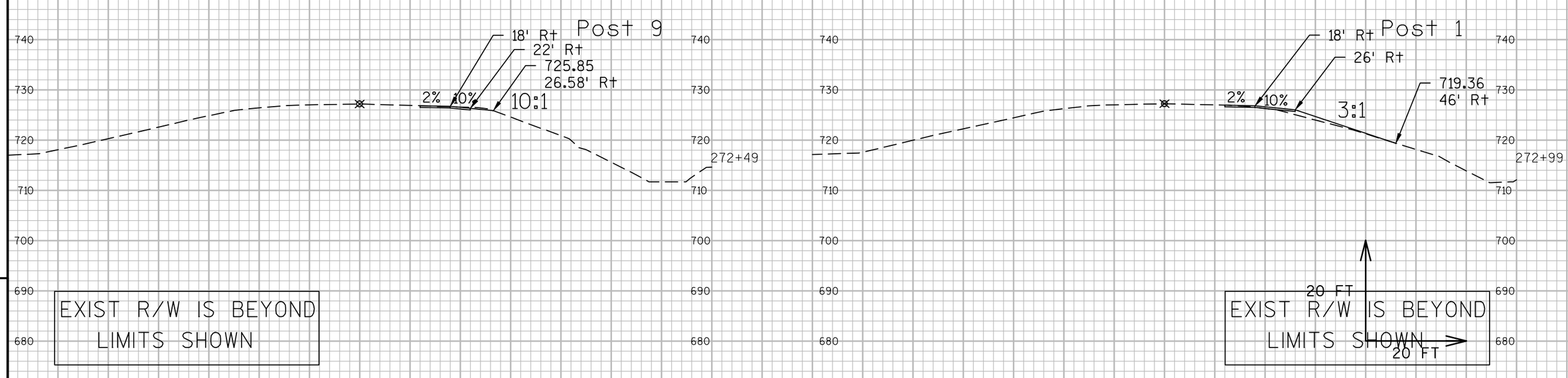
FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\090201-XS-BEAM GUARD (LT SIDE) FINAL.DWG
LAYOUT NAME - 090201-XS-BEAM GUARD (LT SIDE) FINAL - SECTION SHEET - (58)

PLOT DATE : 3/29/2017 10:32 AM PLOT BY : DAVIDSON, JONATHAN BPLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

Elevations to be Field Verified





9

9

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CROSS SECTIONS: USH 61 - BEAMGUARD EAT CROSS SECTIONS	SHEET 203	E

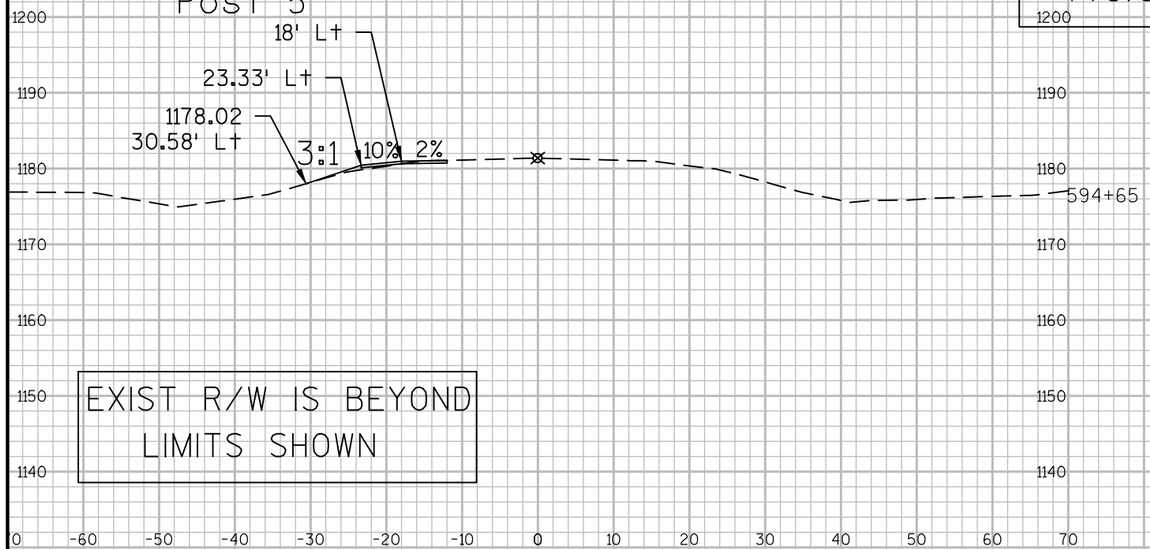
FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\090201-XS-BEAM GUARD (RT SIDE) FINAL.DWG
LAYOUT NAME - 090201-XS-BEAM GUARD (RT SIDE) FINAL - SECTION SHEET - (63)

PLOT DATE : 3/29/2017 10:34 AM PLOT BY : DAVIDSON, JONATHAN BPLOT NAME : PLOT SCALE : 1 IN:20 FT

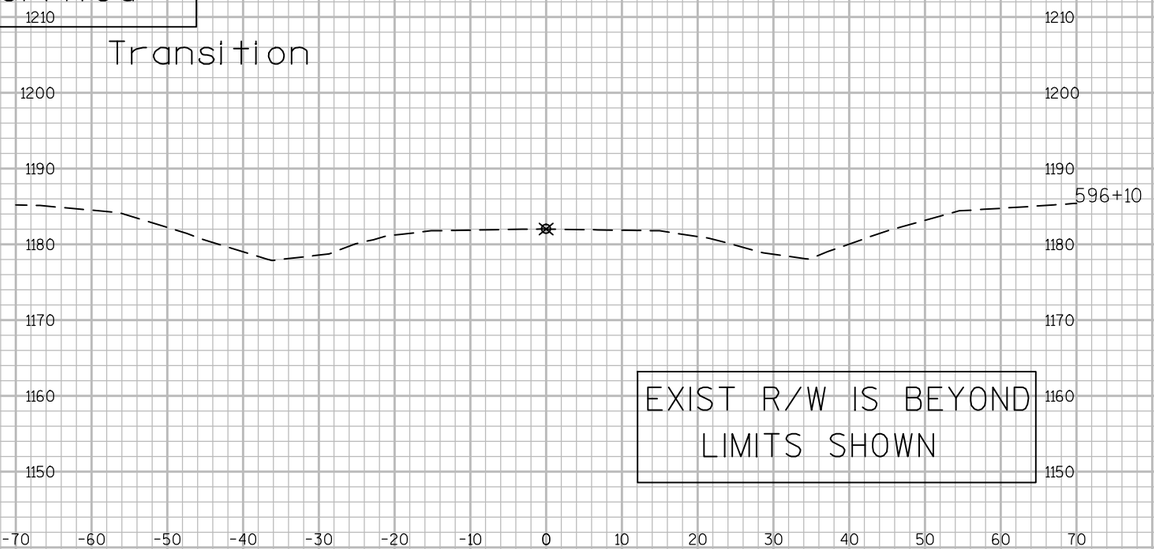
WISDOT/CADDS SHEET 49

Elevations to be Field Verified

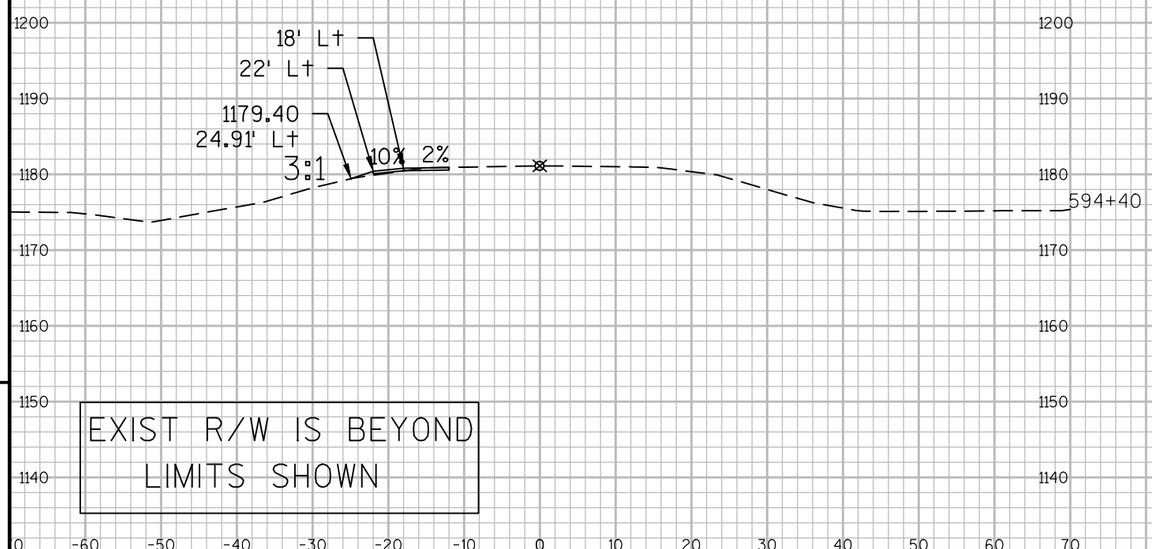
Post 5



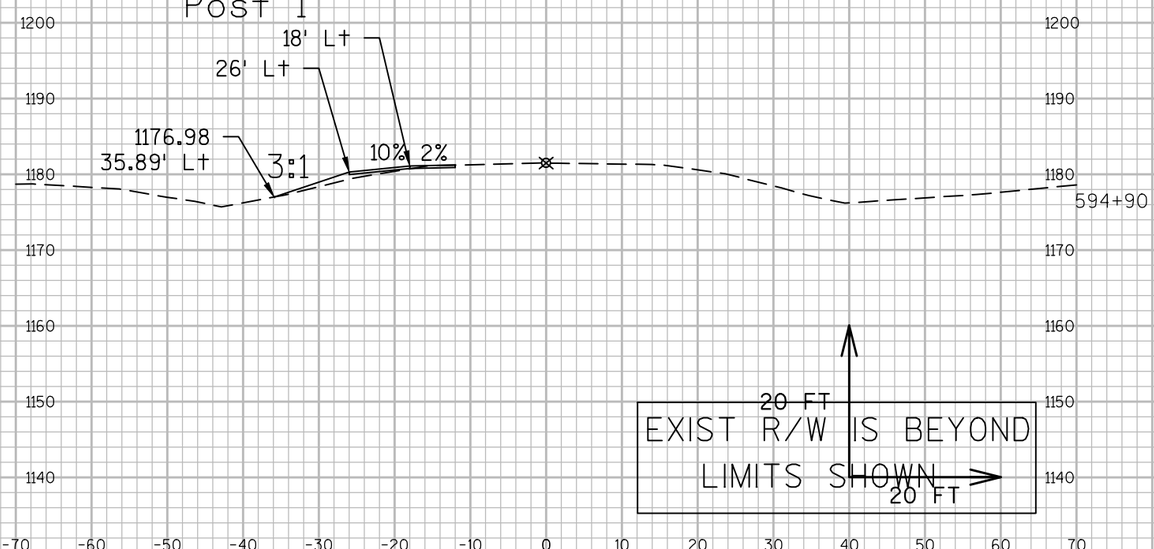
Transition



Post 9

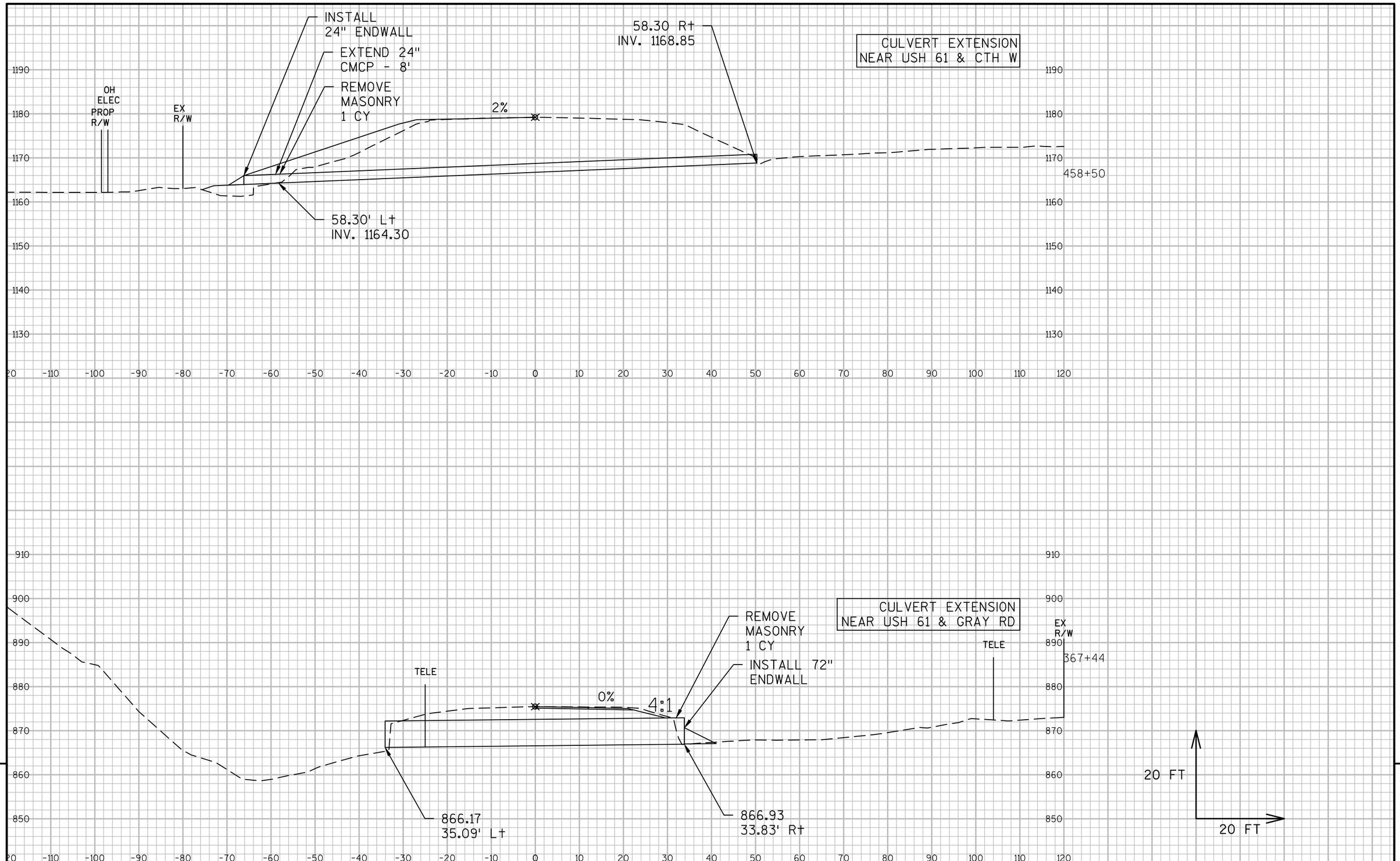


Post 1



9 9

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CROSS SECTIONS: USH 61 - BEAMGUARD EAT CROSS SECTIONS	SHEET 204 E



PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CROSS SECTIONS: CULVERT EXTENSIONS	SHEET 205 E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\090201-XS-BEAM GUARD (RT SIDE) FINAL.DWG
LAYOUT NAME - 090201-XS-BEAM GUARD (RT SIDE) FINAL - SECTION SHEET - (76)

PLOT DATE : 3/29/2017 10:35 AM PLOT BY : DAVIDSON, JONATHAN BPLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

CROSS SECTION AT
ON USH 61 AT
PC OF GRAY RD

910
900
890
880
870
860
850

TELE

12' RT
EDGE OF LANE
18' RT
EDGE OF SHLDR
21' RT
EDGE OF $\frac{3}{4}$" BAD

0.55%

TELE

EX
R/W

367+26

-120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120

INSTALL
72" ENDWALL

EXTEND 72"
CMCP - 4'

32.80' L†
REMOVE EXIST
ENDWALL

INSTALL
EMBANKMENT

REMOVE
MASONRY
2 CY

EX
R/W

2%

30.02' R†
INV. 731.01

30.73' L†
INV. 730.42

CULVERT EXTENSION
NEAR USH 61 & BEAR
CAVE LANE

760
750
740
730
720
710
700

294+20

20 FT
20 FT

-120 -110 -100 -90 -80 -70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120

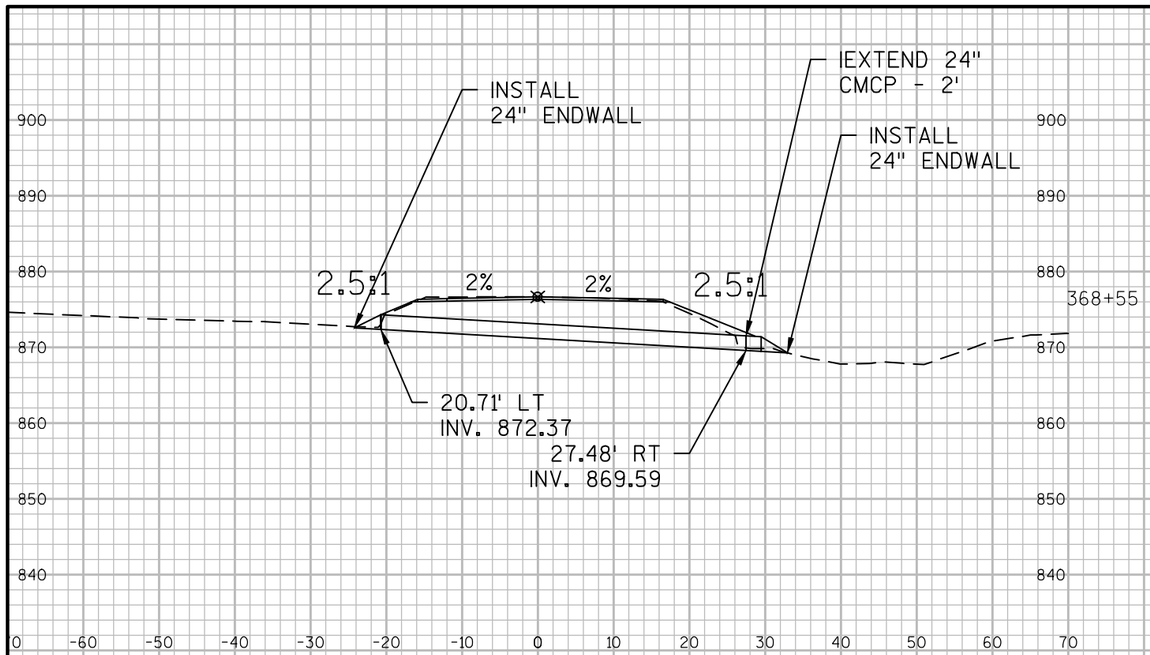
9

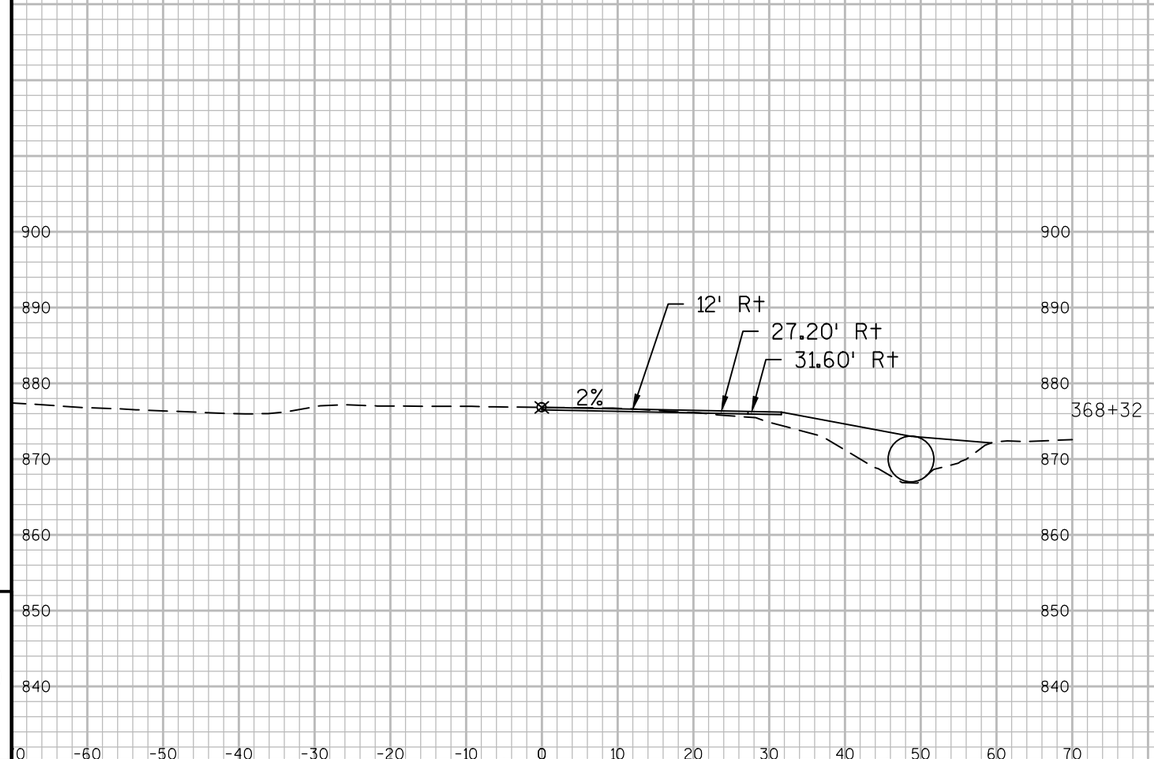
9

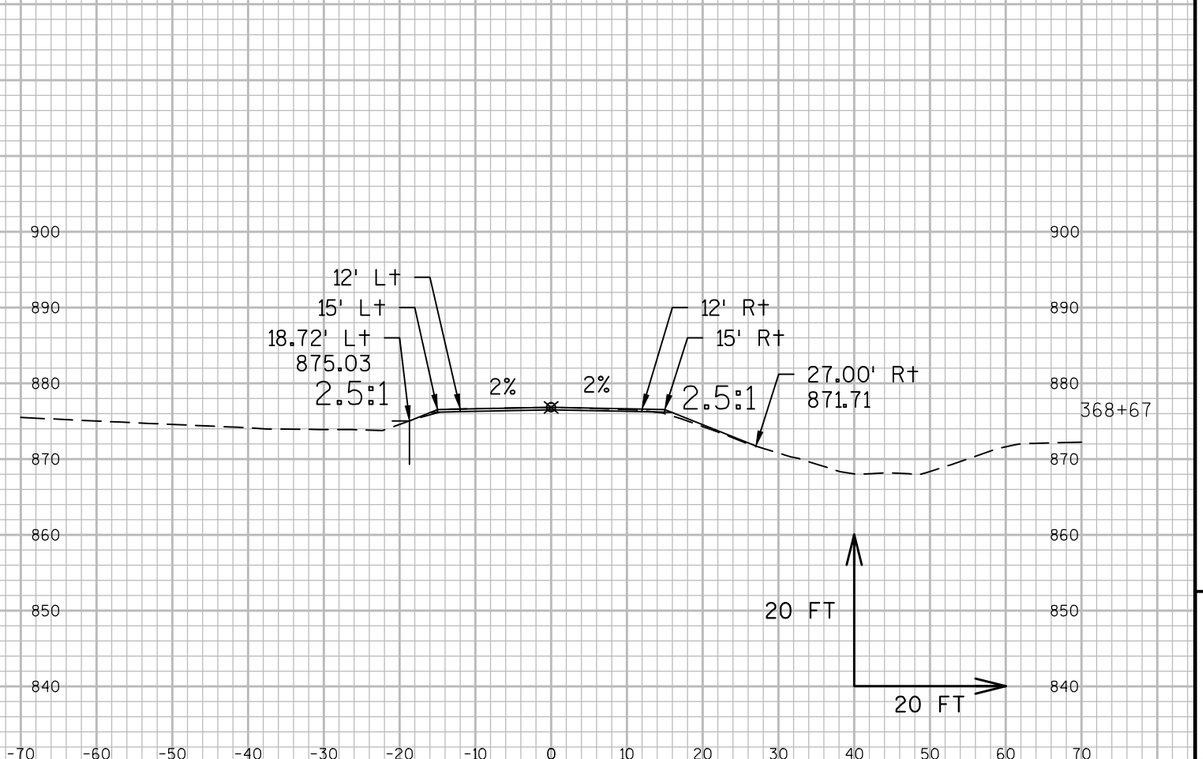
PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CROSS SECTIONS: CULVERT EXTENSION & MISC X-SECTION	SHEET 206	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\090201-XS-BEAM GUARD (RT SIDE) FINAL.DWG
LAYOUT NAME - 090201-XS-BEAM GUARD (RT SIDE) FINAL - SECTION SHEET - (75)

PLOT DATE : 3/29/2017 10:35 AM PLOT BY : DAVIDSON, JONATHAN BPLOT NAME : PLOT SCALE : 1 IN:20 FT







9

9

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CROSS SECTIONS: GRAY RD - CROSS SECTIONS	SHEET 207	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\090201-XS-BEAM GUARD (RT SIDE) FINAL.DWG
LAYOUT NAME - 090201-XS-GRAY RD (USH 61) SECTION SHEET

PLOT DATE : 3/29/2017 10:36 AM PLOT BY : DAVIDSON, JONATHAN BPLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

20.00 Lt
27.00 Lt

1159.41
87.31 Lt

PROP R/W
OH ELEC
EX R/W
3:1
2%

459+00

22.00 Lt
27.00 Lt

1162.73
75.63' Lt

OH ELEC
PROP R/W
EX R/W
3:1
2%

458+50

See Culvert Extension
Cross Section for Add'l
Design Information

25.00 Lt
27.00 Lt

1170.97
49.82' Lt

EX R/W
OH ELEC
3:1
2%

458+13

20 FT
20 FT

9

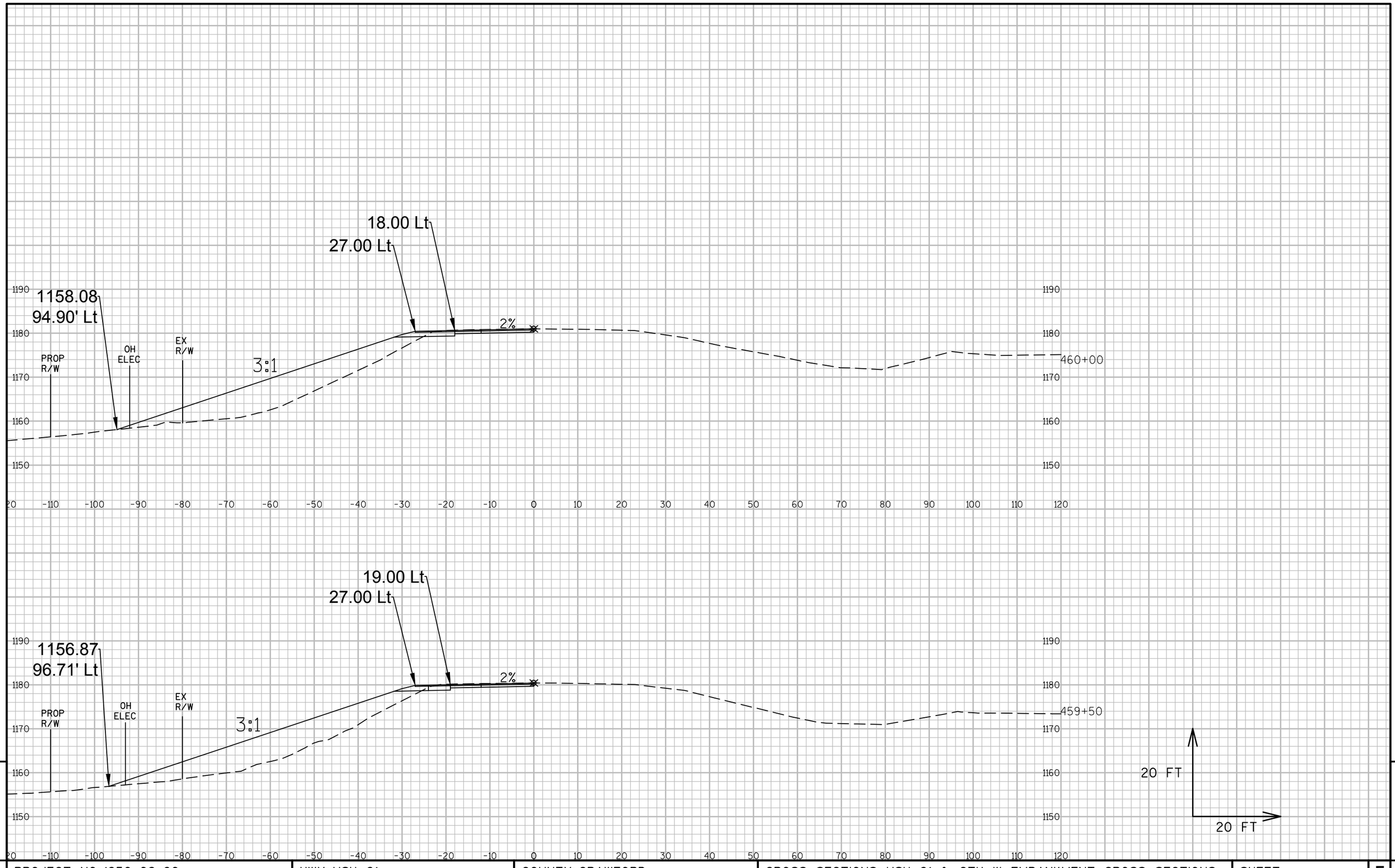
9

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CROSS SECTIONS: USH 61 & CTH W EMBANKMENT CROSS SECTIONS	SHEET 208	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\090201-XS-USH 61 (CTH W).DWG
LAYOUT NAME - 090201-XS-USH 61 (CTH W) - SECTION SHEET - (22)

PLOT DATE : 3/29/2017 10:39 AM PLOT BY : DAVIDSON, JONATHAN BPLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

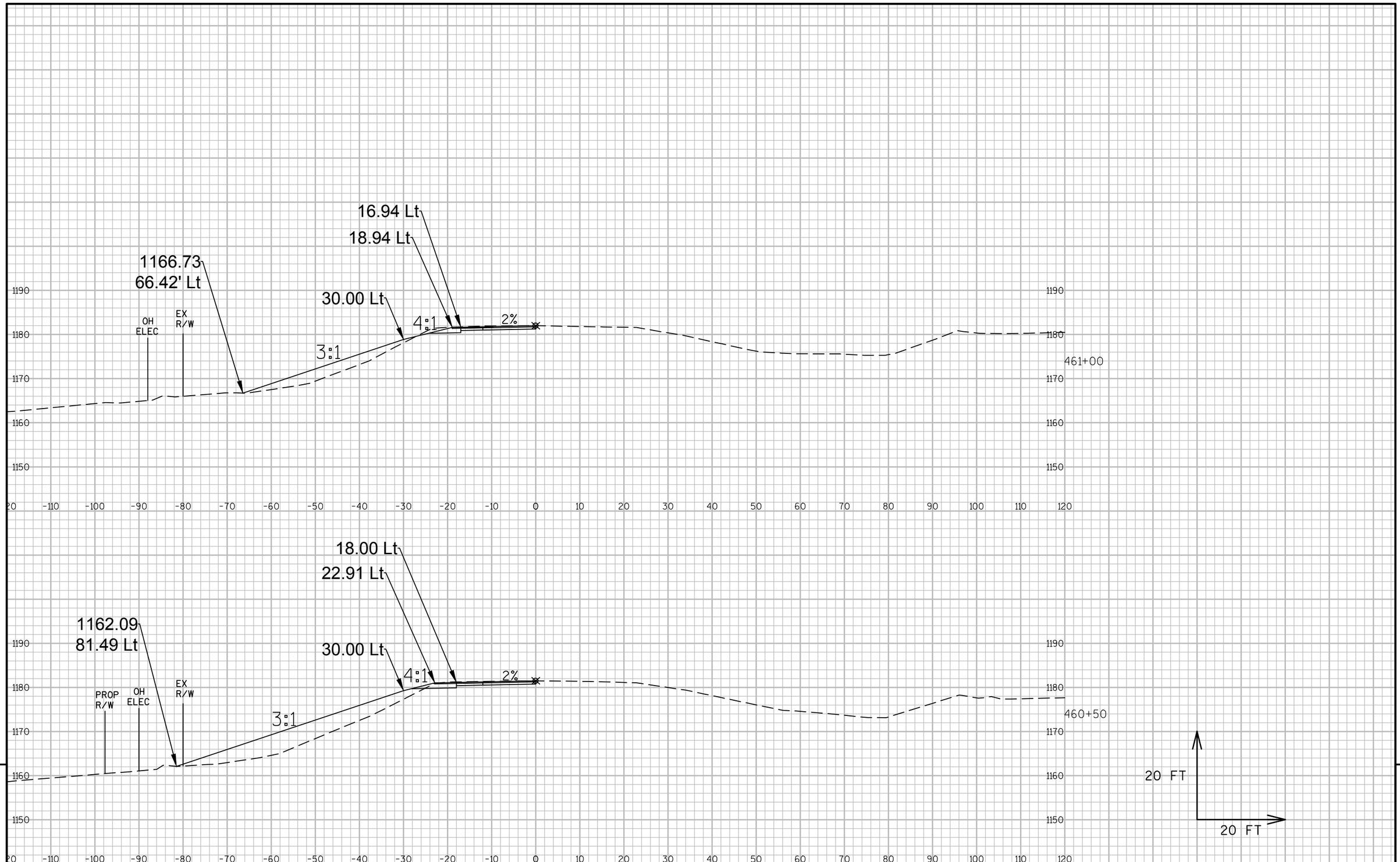
9

PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CROSS SECTIONS: USH 61 & CTH W EMBANKMENT CROSS SECTIONS	SHEET 209	E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\090201-XS-USH 61 (CTH W).DWG
LAYOUT NAME - 090201-XS-USH 61 (CTH W) - SECTION SHEET - (23)

PLOT DATE : 3/29/2017 10:39 AM PLOT BY : DAVIDSON, JONATHAN BPLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

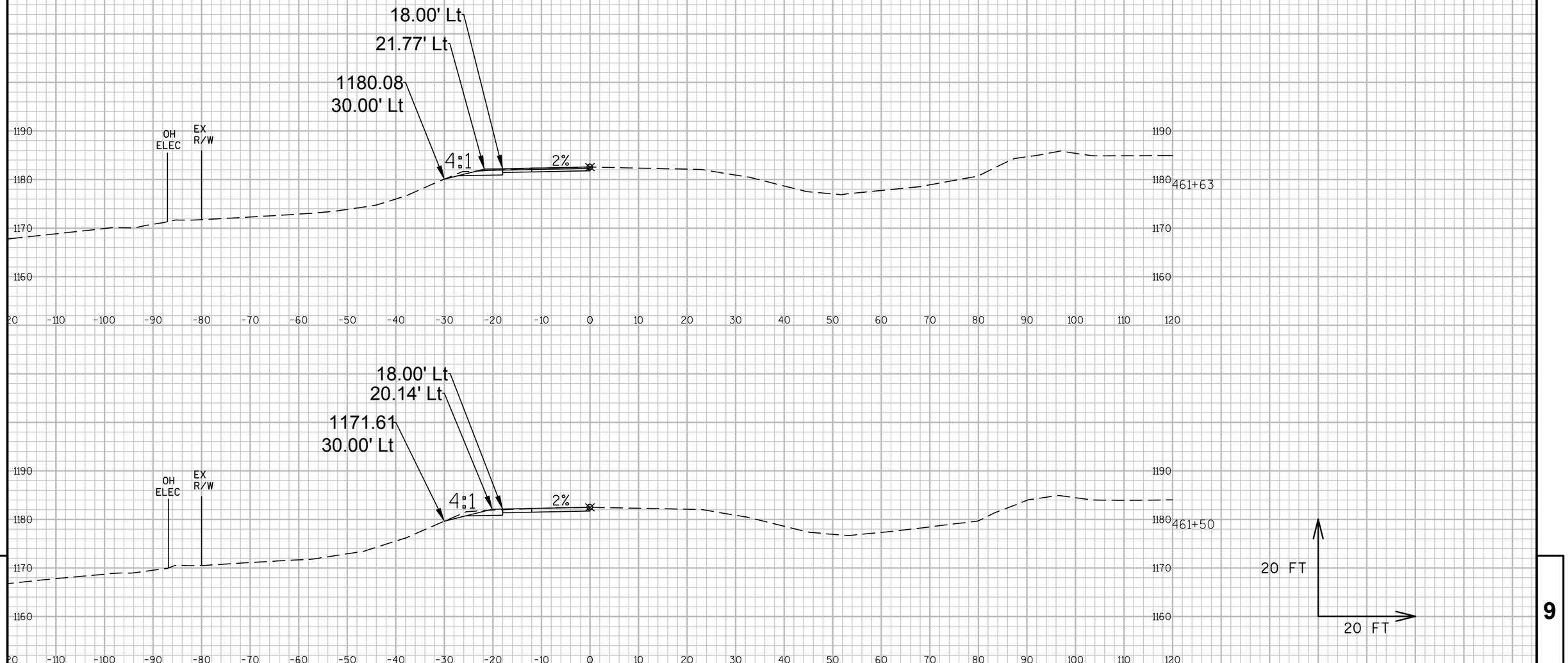


PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CROSS SECTIONS: USH 61 & CTH W EMBANKMENT CROSS SECTIONS	SHEET 210 E

FILE NAME : N:\PDS\C3D\16500230\SHEETSPLAN\1650-02-60\090201-XS-USH 61 (CTH W).DWG
LAYOUT NAME - 090201-XS-USH 61 (CTH W) - SECTION SHEET - (24)

PLOT DATE : 3/29/2017 10:39 AM PLOT BY : DAVIDSON, JONATHAN BPLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1650-02-60	HWY: USH 61	COUNTY: CRAWFORD	CROSS SECTIONS: USH 61 & CTH W EMBANKMENT CROSS SECTIONS	SHEET 211	E

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov