

PROJECT ID: 1198-08-70
WITH: N/A

COUNTY: **WASHBURN**

PLAN OF PROPOSED IMPROVEMENT

WHALEN LAKE ROAD - BUS 53 (MINONG) NB

WASHBURN & DOUGLAS

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1198-08-70	WISC 2017292	1

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 Plan
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section No. 8	Structure Plans
Section No. 9	Computer Earthwork Data
Section No. 9	Cross Sections

TOTAL SHEETS = 154



A.A.D.T. (2017)	=	5900
A.A.D.T. (2027)	=	6800
D.H.V.	=	897
D.D.	=	63/37
T.	=	15.4%
DESIGN SPEED	=	65 MPH
ESALS	=	2,100,000

PLAN
CORPORATE LIMITS
PROPERTY LINE
LOT LINE
LIMITED HIGHWAY EASEMENT
EXISTING RIGHT OF WAY
PROPOSED OR NEW R/W LINE

REFERENCE LINE

PROPOSED CULVERT

COMBUSTIBLE FLUID

MARSH AREA

GRADE LINE

ORIGINAL GROUND

MARSH OR ROCK PROFILE

(To be noted as such)

SPECIAL RITCH

SPECIAL DITCH

GRADE ELEVATION

CULVERT (Baffle, V-rod)

UTILITIES

STRENGTH
ELECTRIC

FIBER OPTIC

GAS

SANITARY SEWER

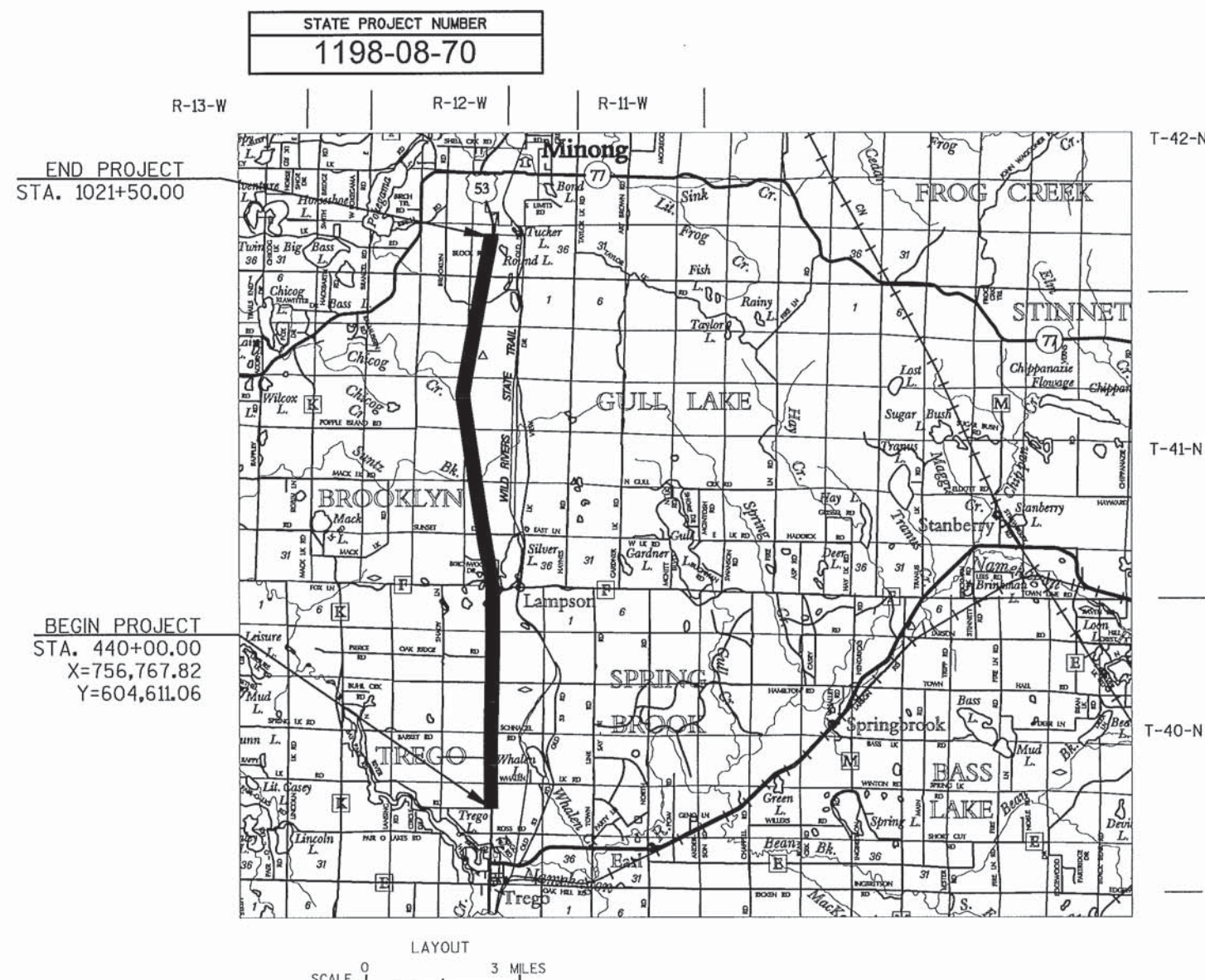
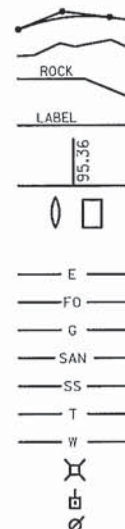
STORM SEWER

TELEPHONE

WATER

POWER POLE

TELEPHONE POLE



HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, WASHBURN COUNTY, NAD83 (2012), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	SURVEYOR
Designer	DANIEL PHU
Project Manager	BRENDAN DIRKES
Regional Examiner	
Regional Supervisor	ANDY STENSLAND

APPROVED FOR THE DEPARTMENT
DATE: 1/31/17 Brendan Dink
(Signature)

FILE NAME : N:\PDS\C3D\11980831\SHEETSP\PLAN\1_010101_T1.DWG
LAYOUT NAME - ****

PLOT DATE : 1/24/2017 3:43 PM

PLOT BY : PHU, DANIEL C

PLOT NAME :

WISDOT/CADDS SHEET 10

GENERAL NOTES

WHEN THE QUANTITY OF BASE AGGREGATE OR PAVEMENT IS MEASURED FOR PAYMENT BY THE TON OR BY THE CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

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

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT FOR AREAS WITHIN FINISHED SHOULDER POINT, SHALL BE FERTILIZED SEEDED AND COVERED WITH EROSION MAT.

THE LOCATION OF DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

THE LOCATIONS OF UTILITY FACILITIES AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE PRIOR TO THE START OF WORK.

CURVE DATA IS BASED ON THE ARC DEFINITION.

THE EXACT LOCATION OF EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD.

NO EQUIPMENT OR MATERIALS SHALL BE STORED IN WETLAND AREAS.

PAVEMENT QUANTITIES ARE BASED ON 112 LBS/SY COMPACTED 1" THICK.



Alan Nickell
CenturyLink - Communication Line
P.O. Box 181
Solon Springs, WI 54873
(715) 378-2131
(715) 566-3879
Alan.nickell@centurylink.com

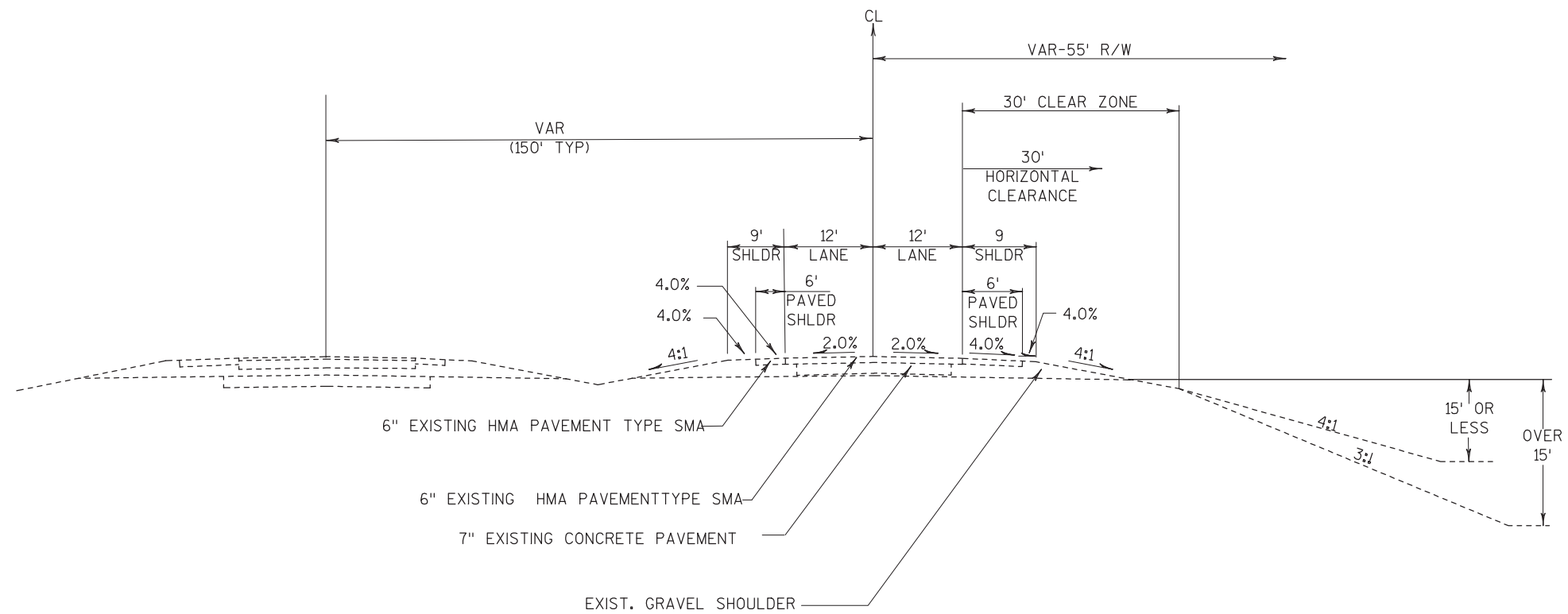
Thomas Haase
Charter Communications - Communication Line
2304 S Main St
Rice Lake, WI 54868
(715) 719-0564
tom.Haase@charter.com

James Dahlberg
Dahlberg Light And Power Company - Electricity
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P.O. Box 300
Solon Spring, WI 54873-0300
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Randy Simms
Packerland Broadband - Communication Line
105 Kent St
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Iron Mountain, MI 49801
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randy.simms@packerlandbroadband.com

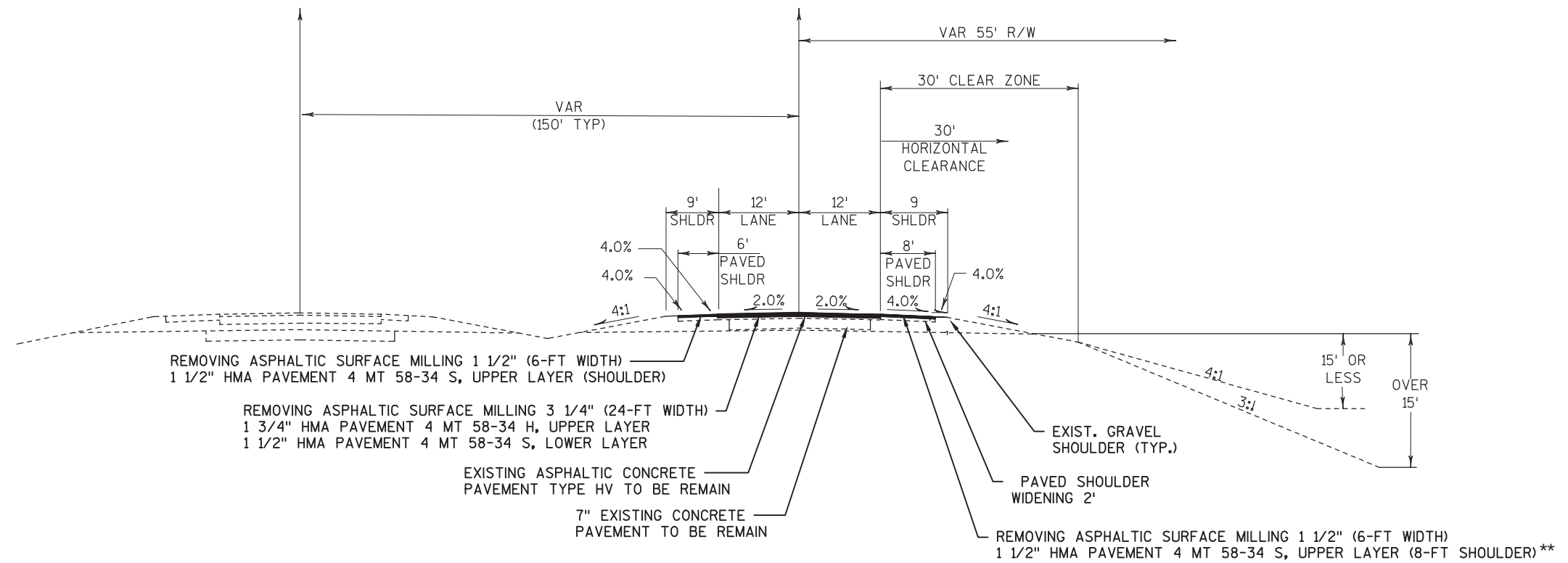
WisDNR
810 West Maple Street
Spooner, WI 54801
Shawn Haseleu, Environmental
Analysis and Review Specialist
shawn.haseleu@wisconsin.gov
715-635-4228

WisDOT NW Region
1701 North 4th Street
Superior, WI 54880
Brendan Dirkes
Project Manager
brendan.dirkes@dot.wi.gov
715-395-3026



EXISTING TYPICAL SECTION

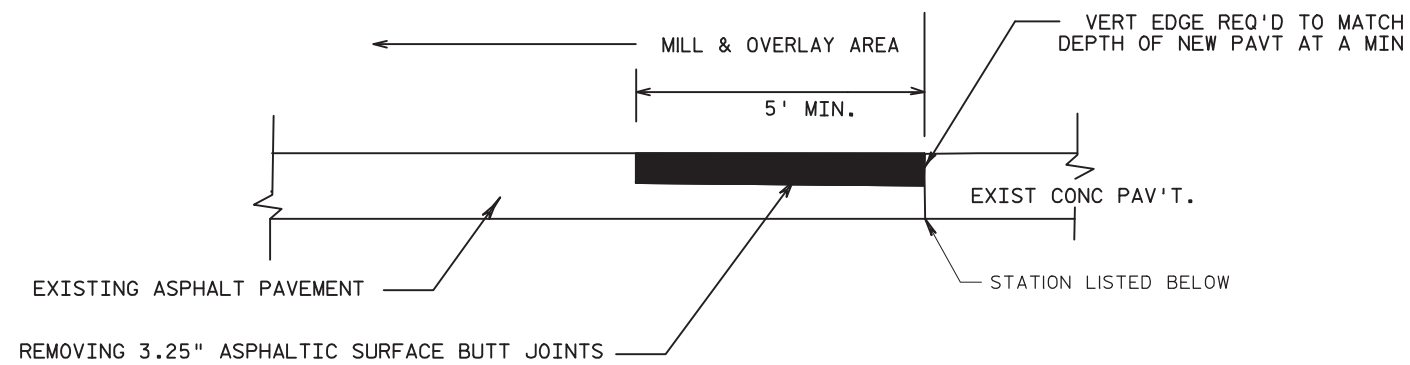
STA 440+00NB TO STA 633+83NB
STA 633+83NB TO STA 827+66NB
STA 827+66NB TO STA 1021+50NB



FINISHED TYPICAL SECTION

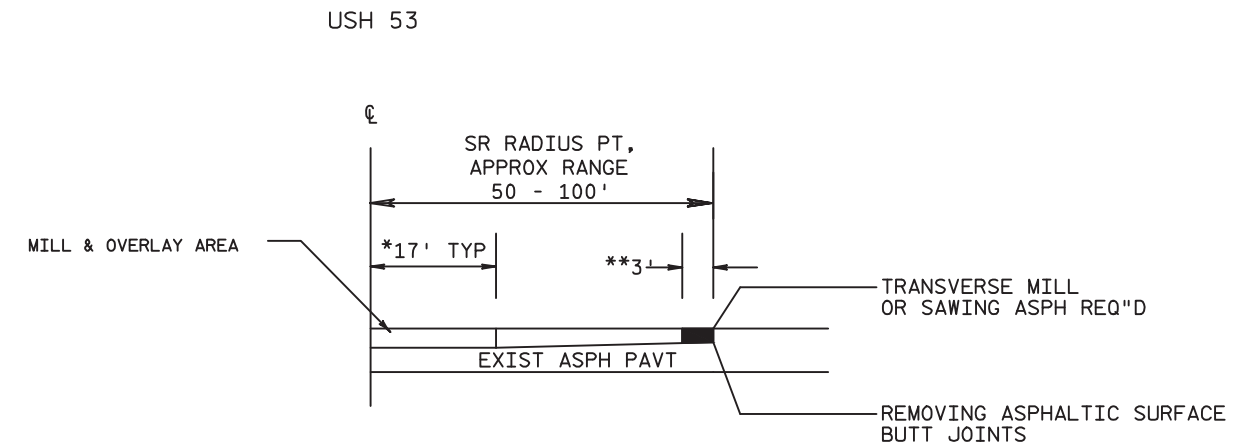
STA 440+00NB TO STA 633+83NB
 STA 633+83NB TO STA 827+66NB
 STA 827+66NB TO STA 1021+50NB

** NOTE: THE 2 FT WIDENING OF THE DRIVING LANE PAVED SHOULDER SHALL BE PAVED 3" THICK WITH UPPER LAYER OF THE SHOULDER . THE EXISTING GRAVEL SHOULDER SHALL BE NOTCHED OUT AFTER THE EXISTING SHOULDER HAS BEEN MILLED AND PRIOR TO PLACEMENT OF THE HMA UPPER LAYER . NOTCHING PAID FOR UNDER PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS BID ITEM .



DETAIL FOR BUTT JOINTS AT CONCRETE JOINTS

STA. 440+00ML
STA. 1020+50ML



SIDE ROAD BUTT JOINT DETAIL

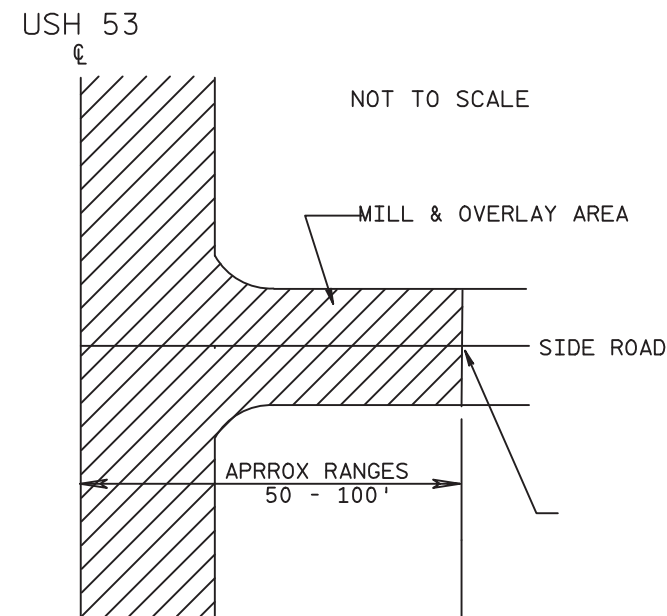
REMOVE MATERIAL UNDER ITEM 'REMOVING ASPHALTIC SURFACE BUTT JOINTS'

SIDEROAD PAVEMENT DEPTH SHALL MATCH AT MAINLINE PAVEMENT
EDGE AND BE TAPERED TO 1.5" MINIMUM AT JOINT

*EDGE OF PAVED SHOULDER ALONG ML
**20' ON CTH & STH

SIDE ROAD LOCATION'S REQUIRING BUTT JOINTS

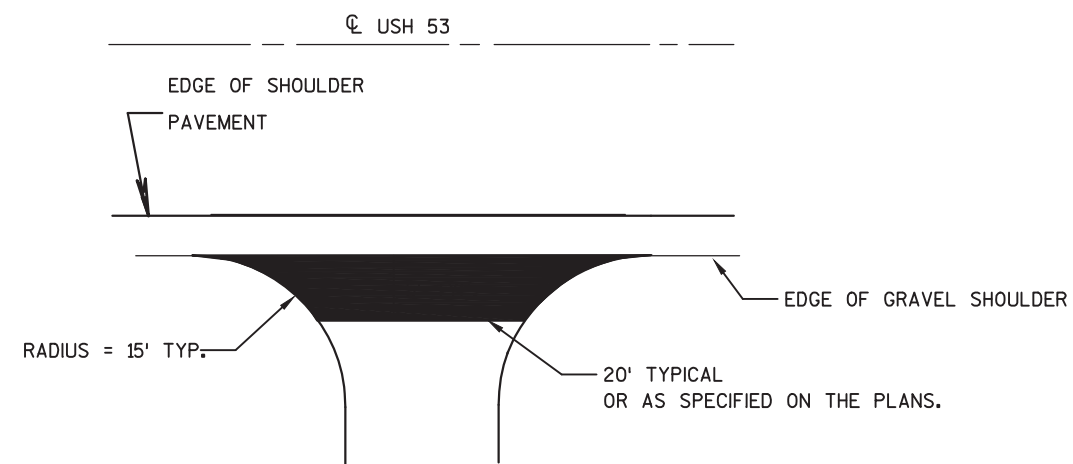
WHALEN LAKE RD.	STA. 452+85RT&RT
BARRETT RD.	STA. 479+00LT
SCHNAGEL RD.	STA: 504+90LT&RT
CROSS MEDIAN	STA. 530+70LT
OAK RIDGE DR.	STA. 582+60LT
CROSS MEDIAN	STA. 608+70LT
CTH F (EAST)	STA. 644+75LT
CTH F (EAST)	STA. 644+75RT
CTH F (WEST)	STA. 655+20LT
BIRCHWOOD DR.	STA. 682+23LT
BIRCHWOOD DR.	STA. 682+23RT
PALMER DR.	STA: 709+24LT
PALMER DR.	STA: 709+24rT
WASTESIGE	STA. 895+70LT
WASTESIGE	STA. 895+70RT
CROSS MEDIAN	STA. 919+80LT
BROOKLYN DR.	STA. 951+00LT
BROOKLYN DR.	STA. 951+00RT
W.BLOCK RD.	STA.992+60LT
OLD USH 53	STA. 1013+00RT.
TRANSFER ST.	STA. 1020+00LT



BUTT JOINT REQ'D. FOR
PAVED SRS - SEE DETAIL

SIDE ROAD DETAIL - NO CURB & GUTTER

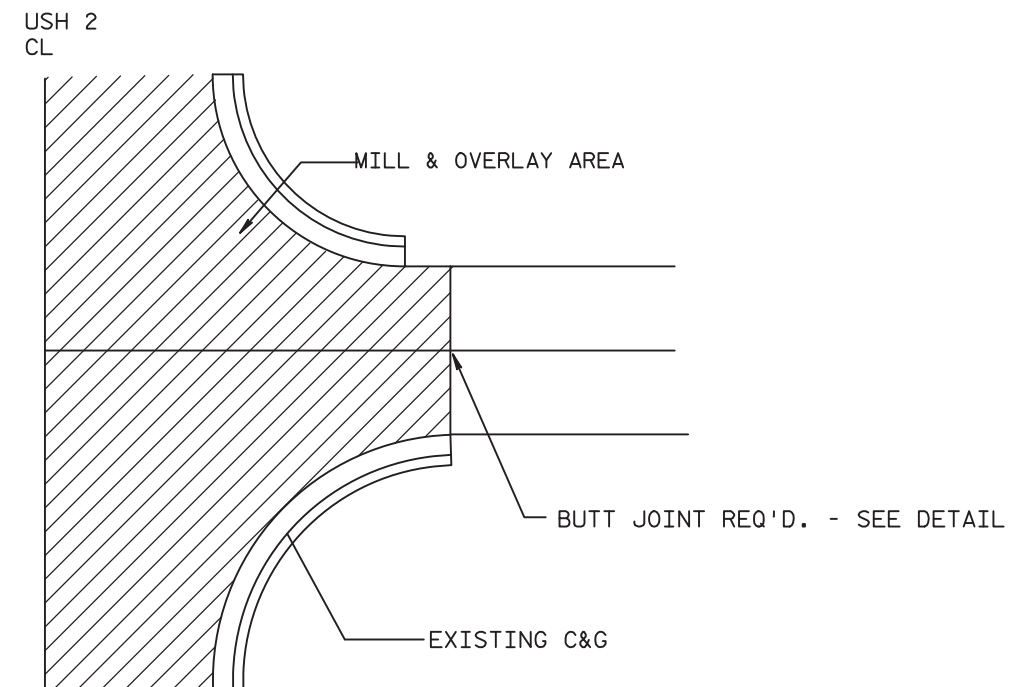
NOTE: IF THE EXISTING SIDEROAD
CONSISTS OF A BASE COURSE
SURFACE, THE NEW ASPHALT
SHALL BE PLACED TO THE END
OF THE FARTHER EXISTING
SIDEROAD RADIUS.



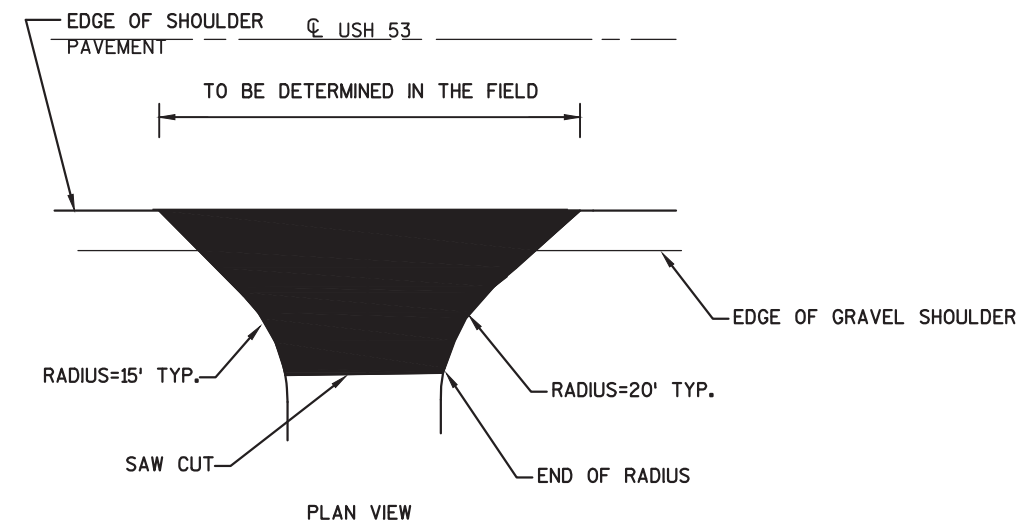
RURAL AGGREGATE DRIVEWAY DETAIL

EACH ENTRANCE SHALL RECEIVE ADEQUATE 3/4-INCH BASE AGG. DENSE
AFTER MAINLINE PAVING TO BRING ENTRANCE UP TO SHOULDER PAVEMENT GRADE.
MATCH EXISTING DRIVEWAY WIDTHS AND RADII.

STA. 440LT-STA.1021+50LT 13 DRIVEWAY
STA. 440RT-STA.1021+50RT 6 DRIVEWAY



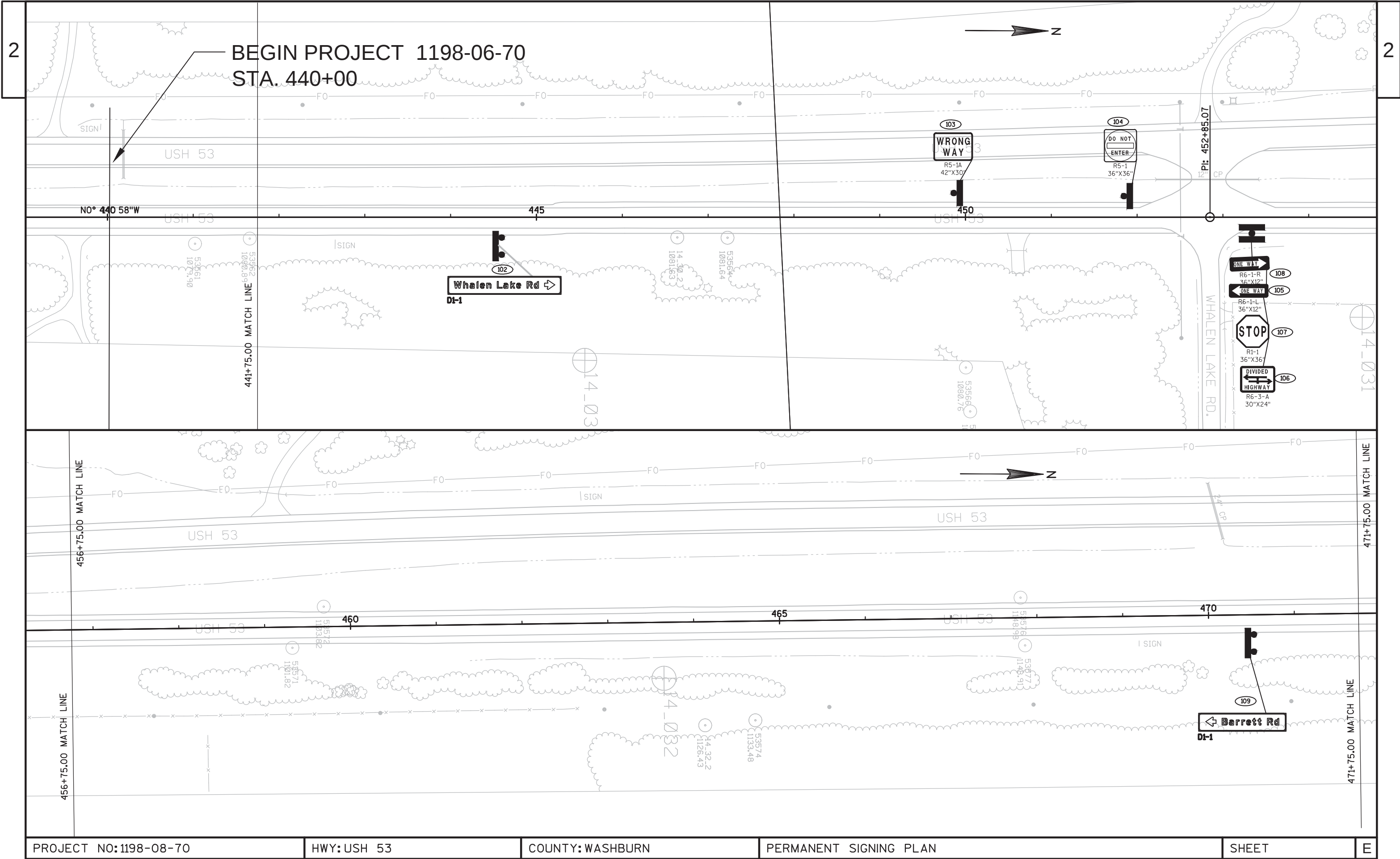
SIDEROAD DETAIL, URBAN & RURAL - CURB & GUTTER

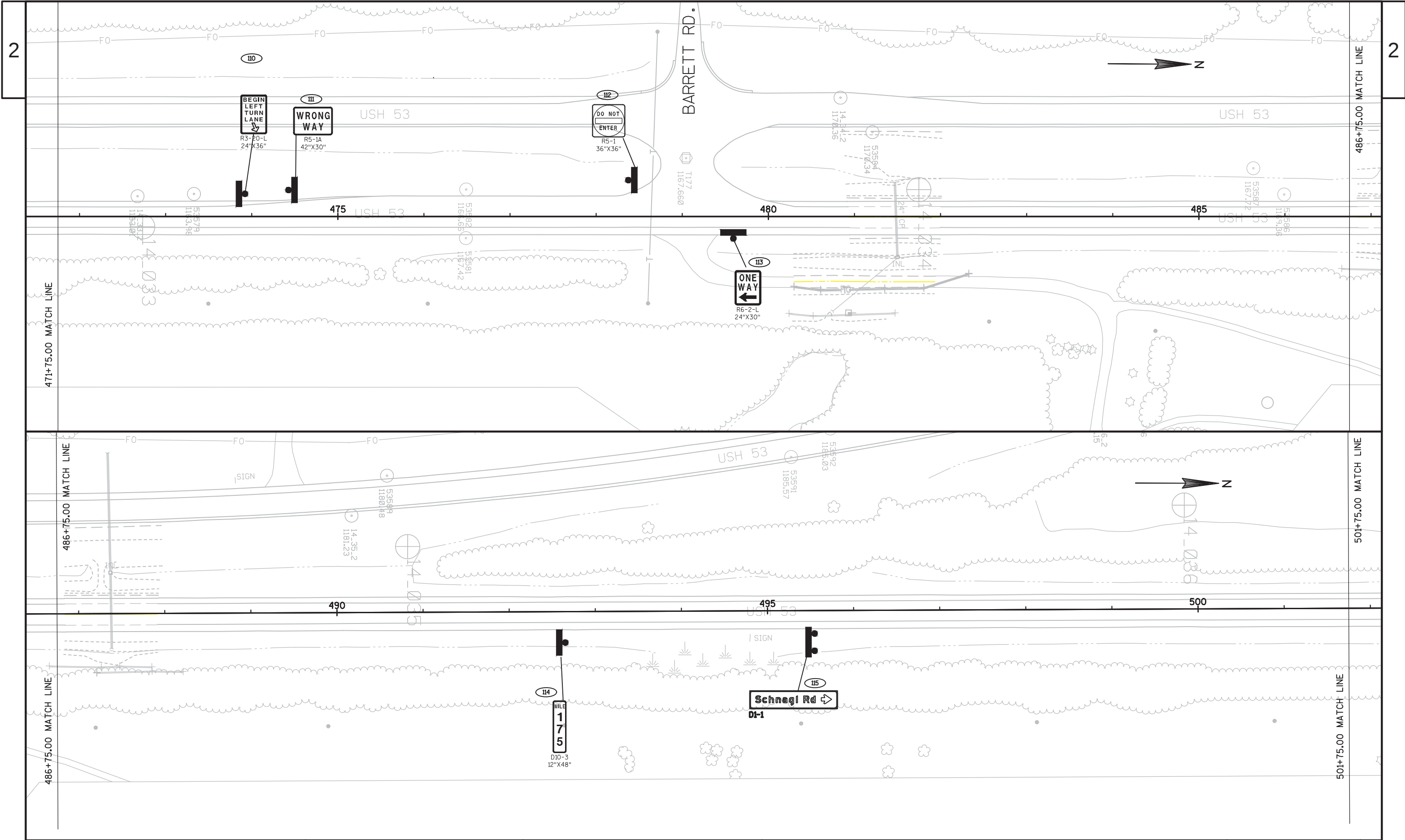


RURAL PAVED DRIVEWAY DETAIL

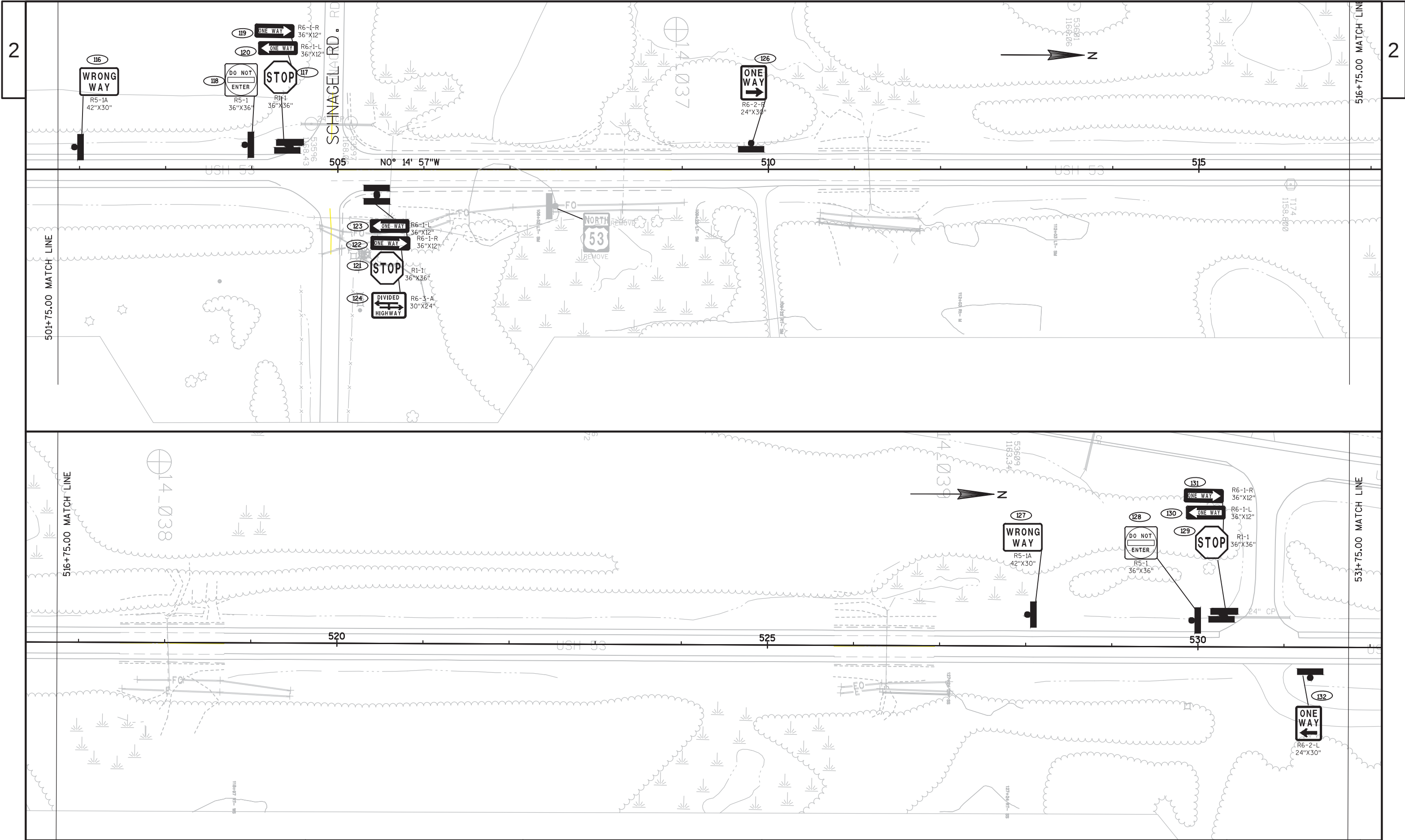
REPLACE WITH ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES.
MATCH EXISTING WIDTH AND RADII OF DRIVEWAY.
PREPARE SUBSURFACE FOR PAVING WITH BASE AGG
DENSE 3/4-INCH AS NECESSARY.

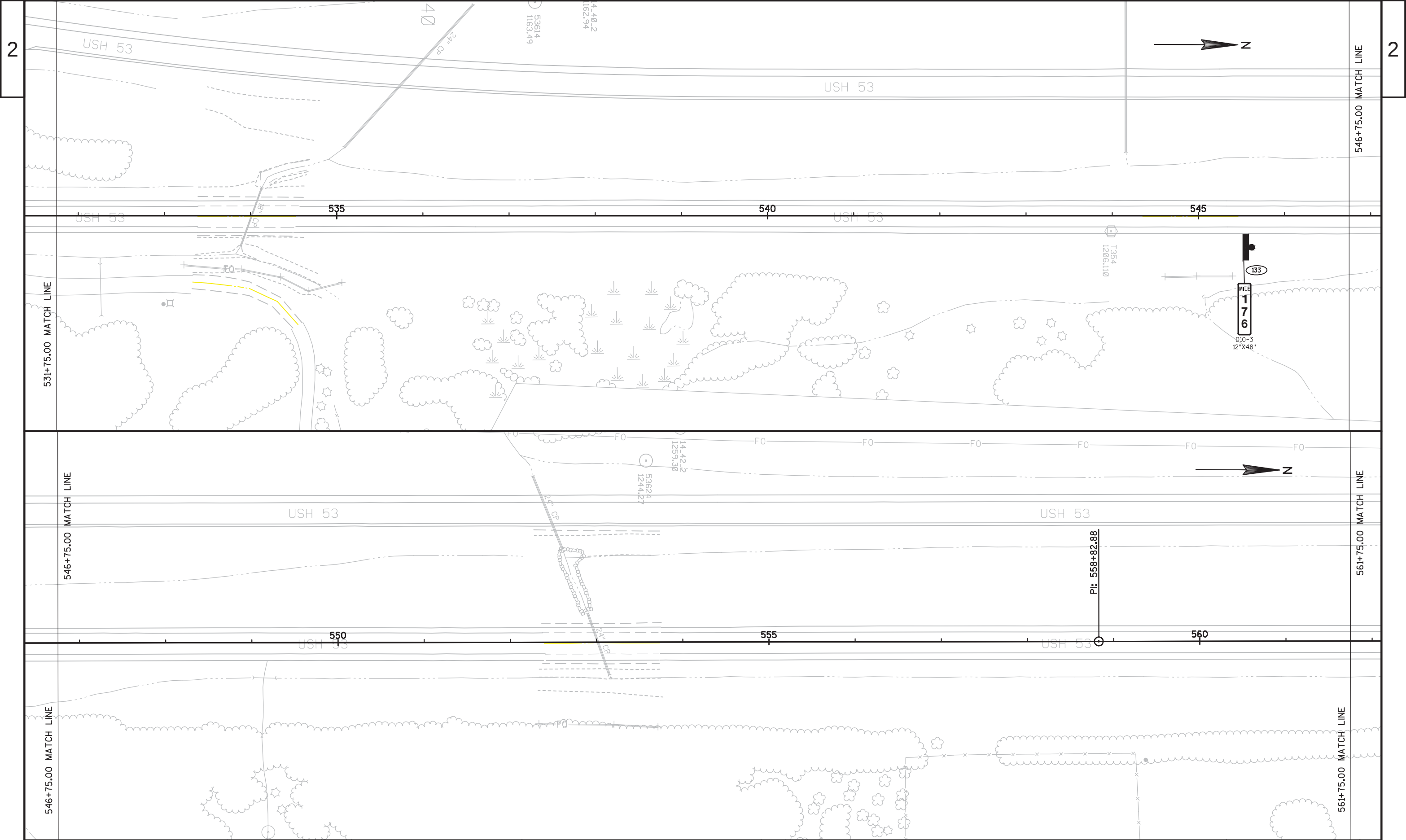
SEE MISCELLANEOUS TABLES FOR LIST OF STA/LOC



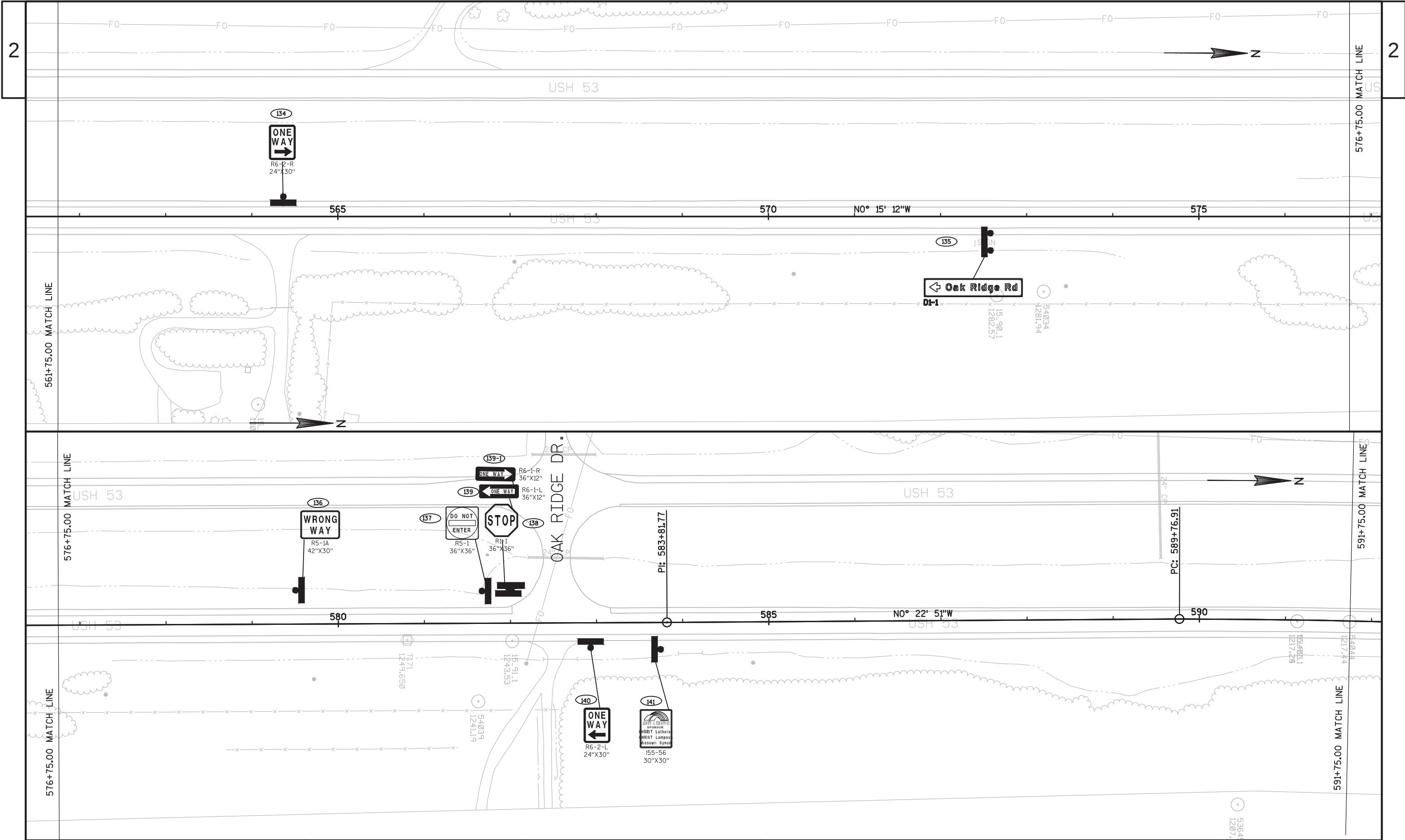


PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PERMANENT SIGNING PLAN	SHEET	E
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PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PERMANENT SIGNING PLAN	SHEET	E
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PROJECT NO:1198-08-70

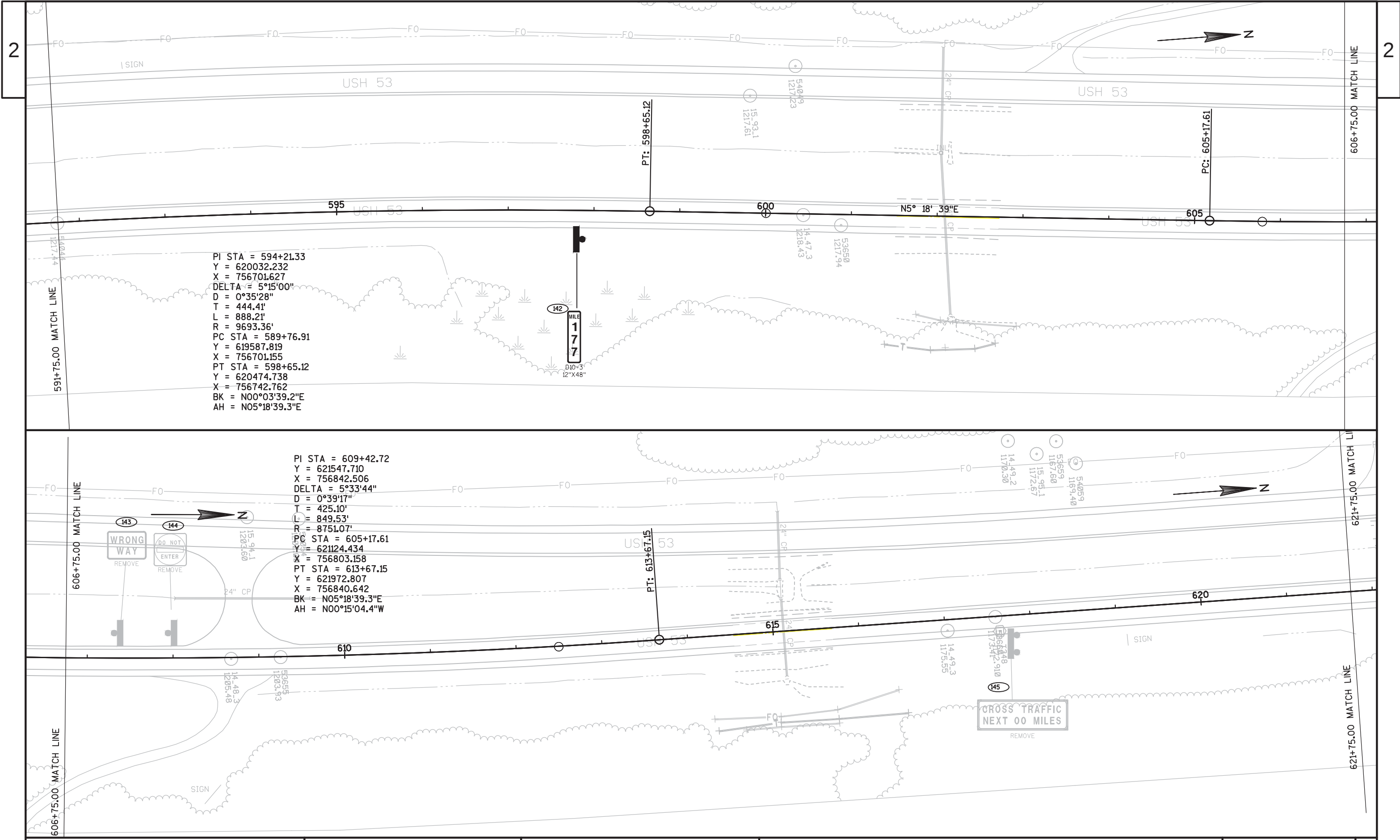
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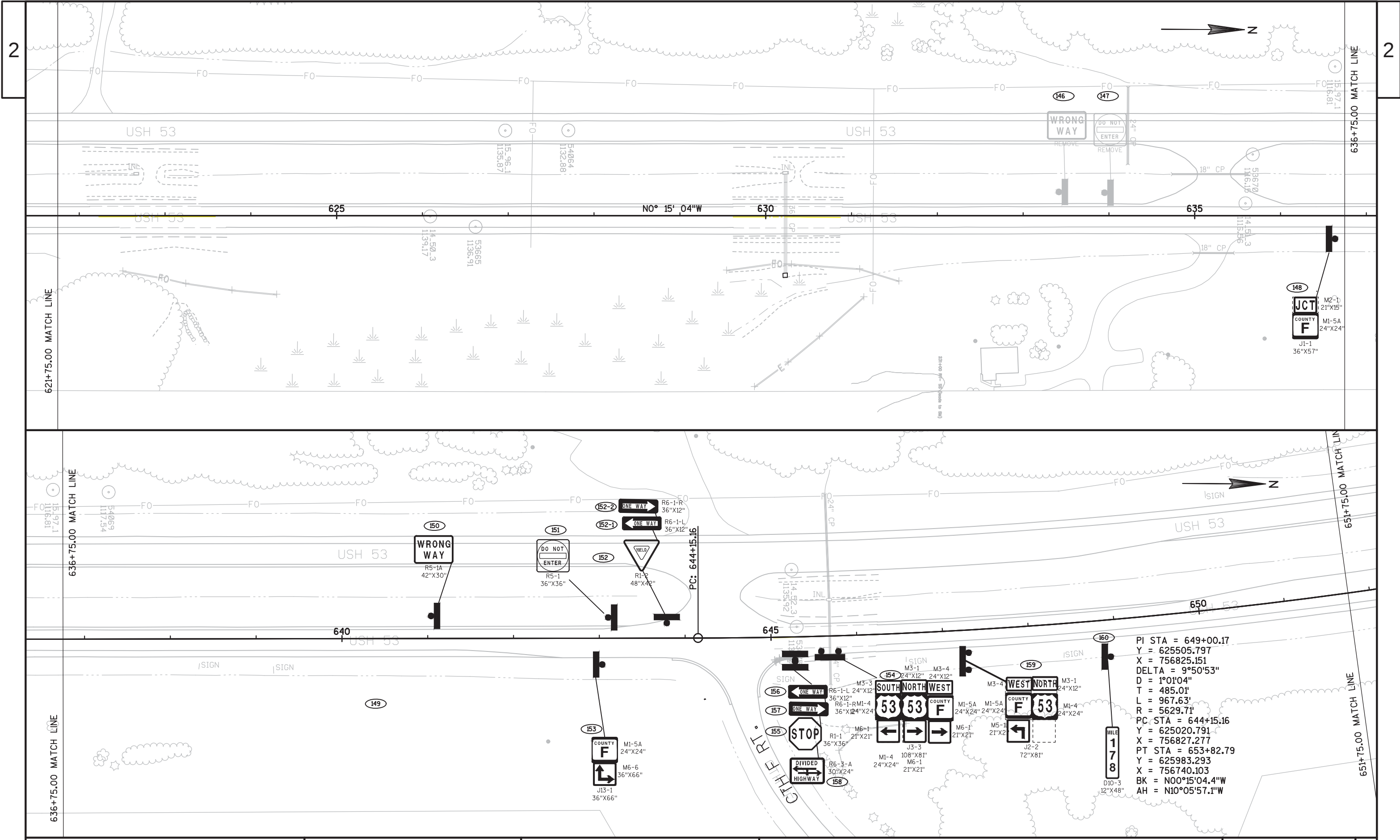
COUNTY:WASHBURN

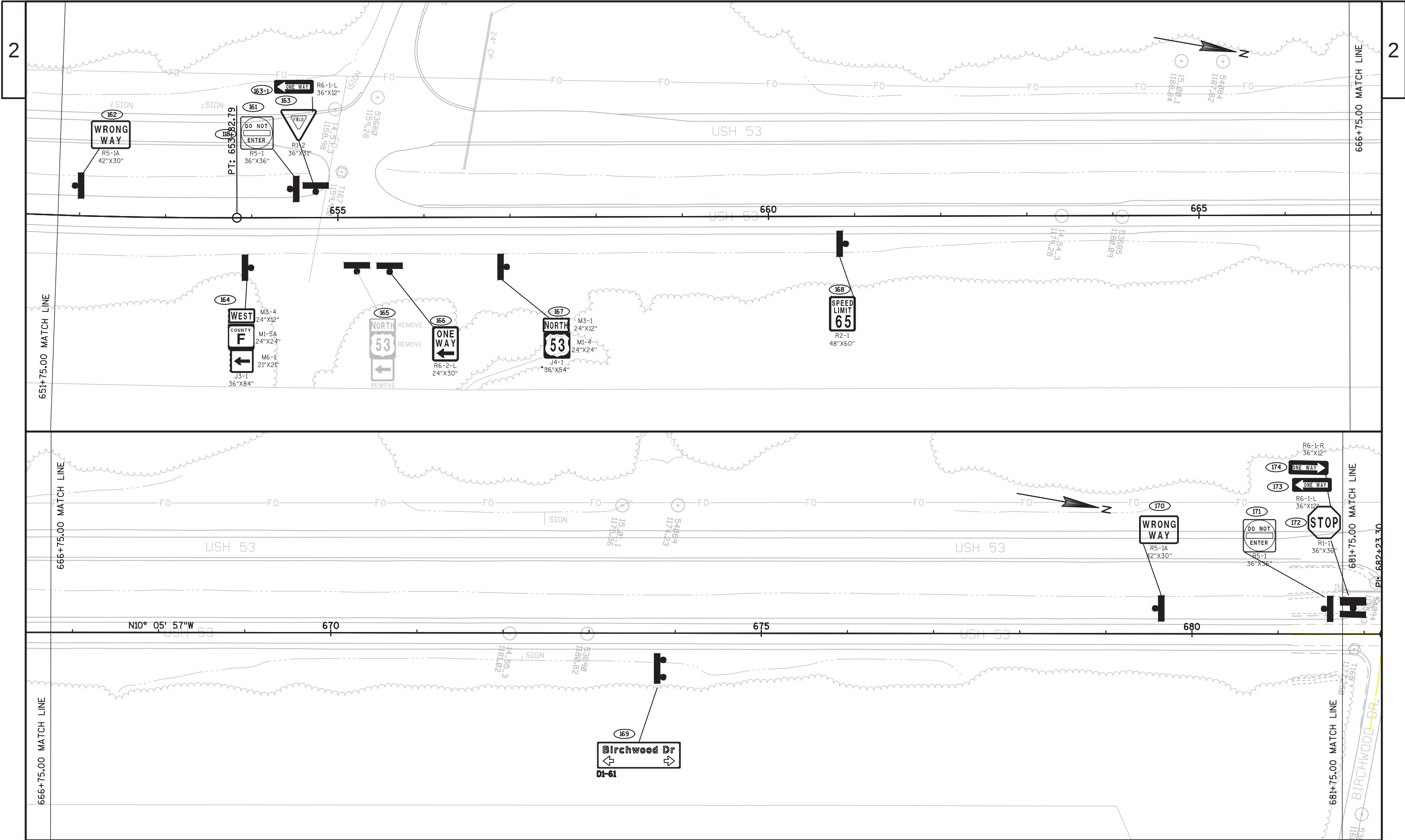
PERMANENT SIGNING PLAN

SHEET

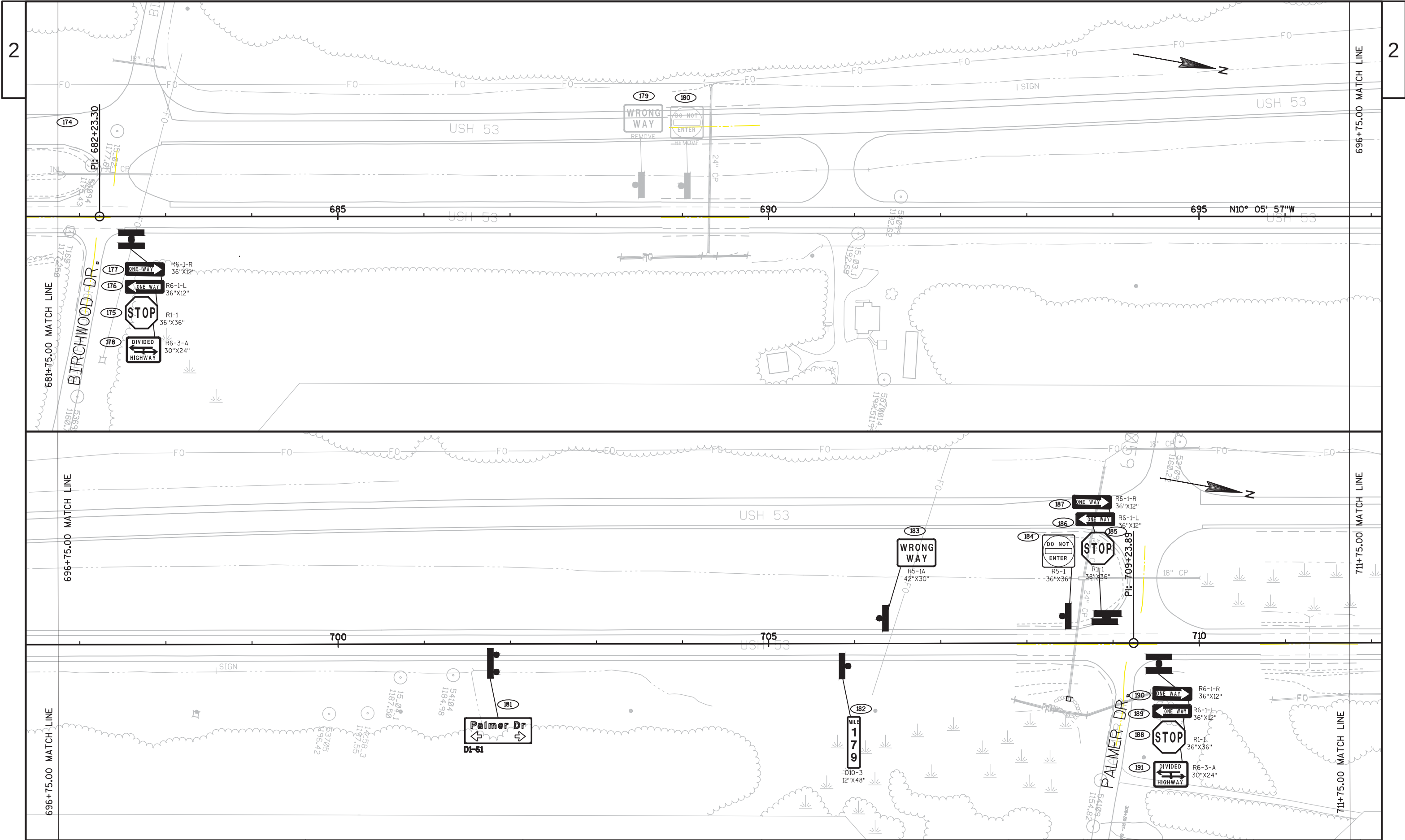
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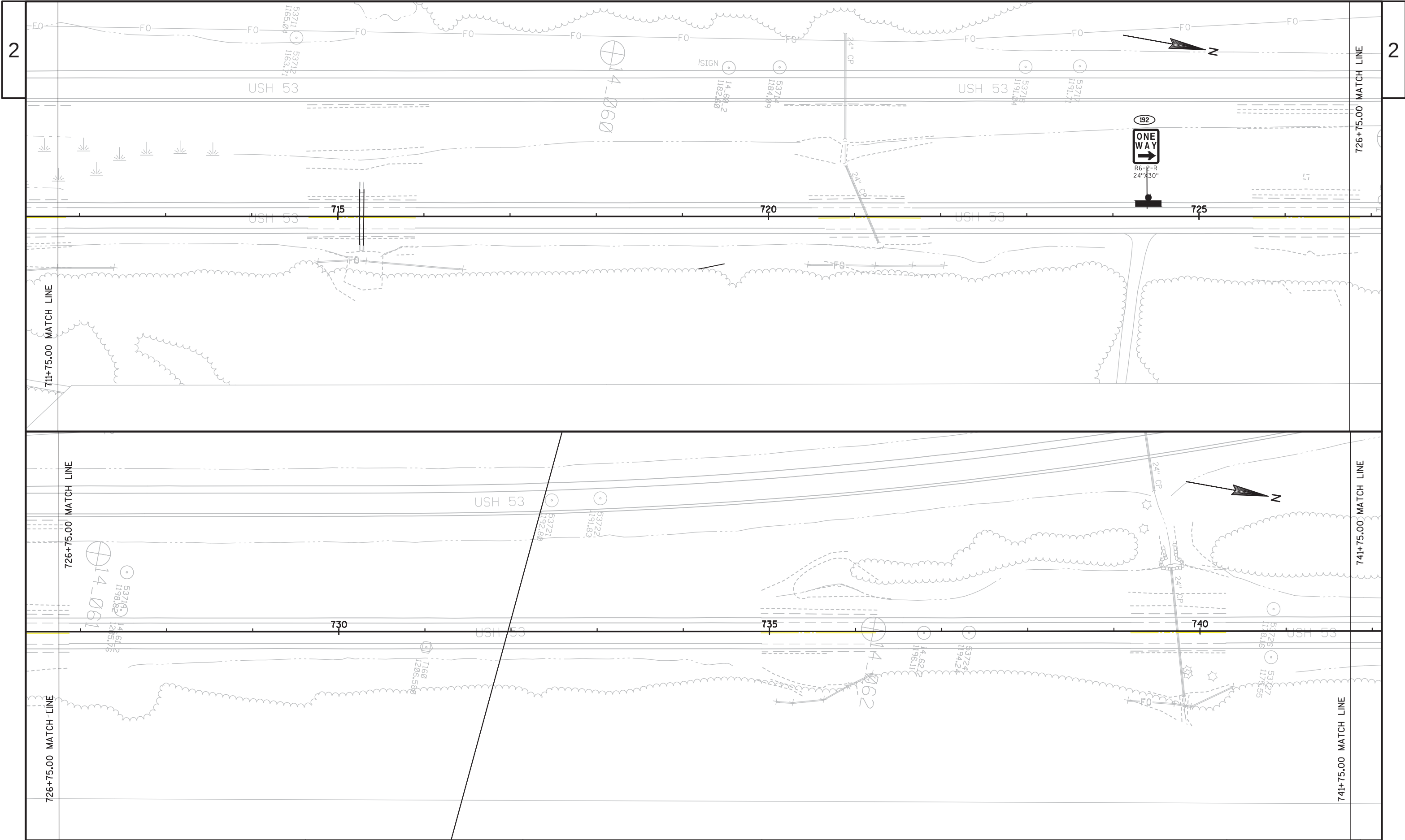




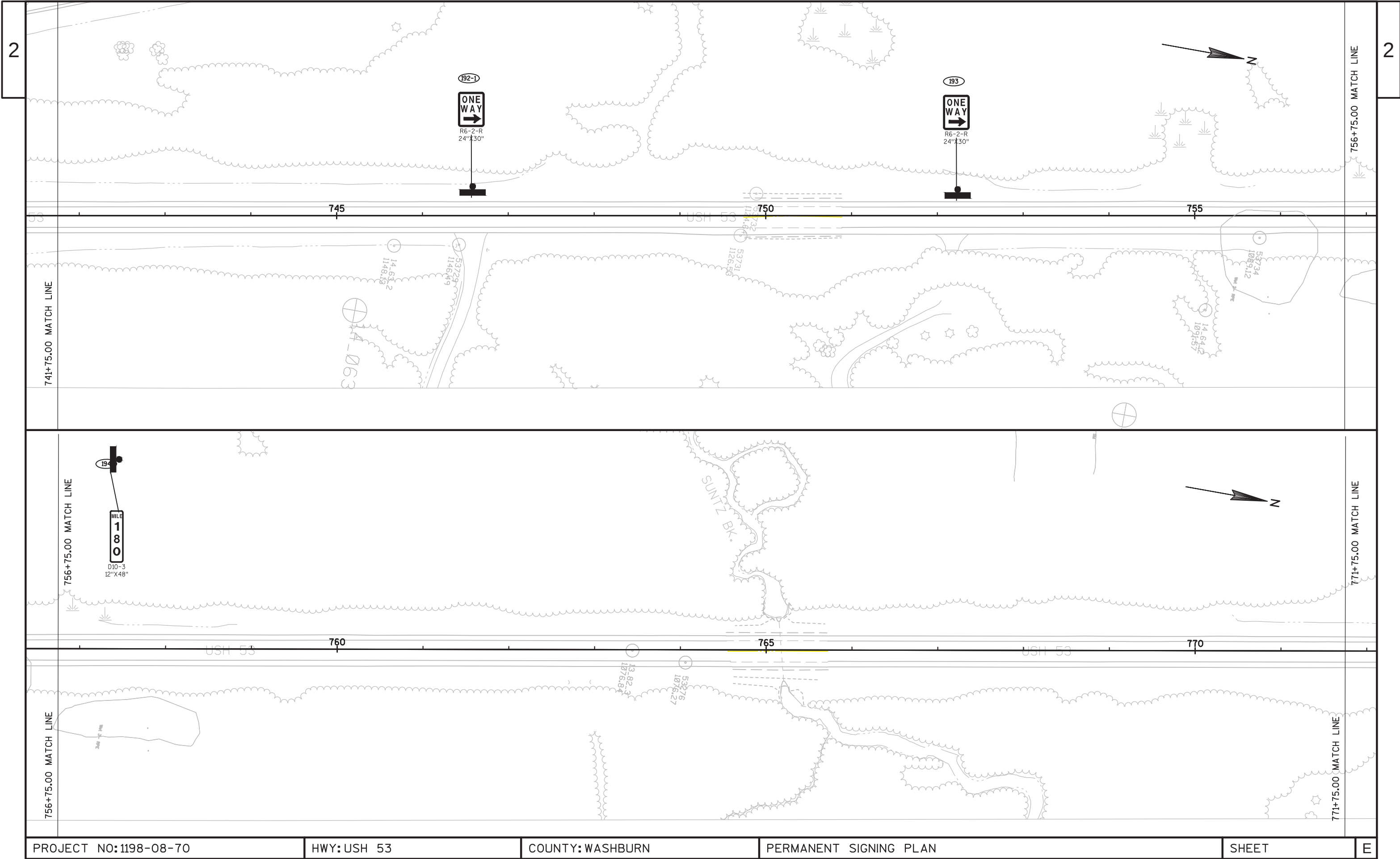
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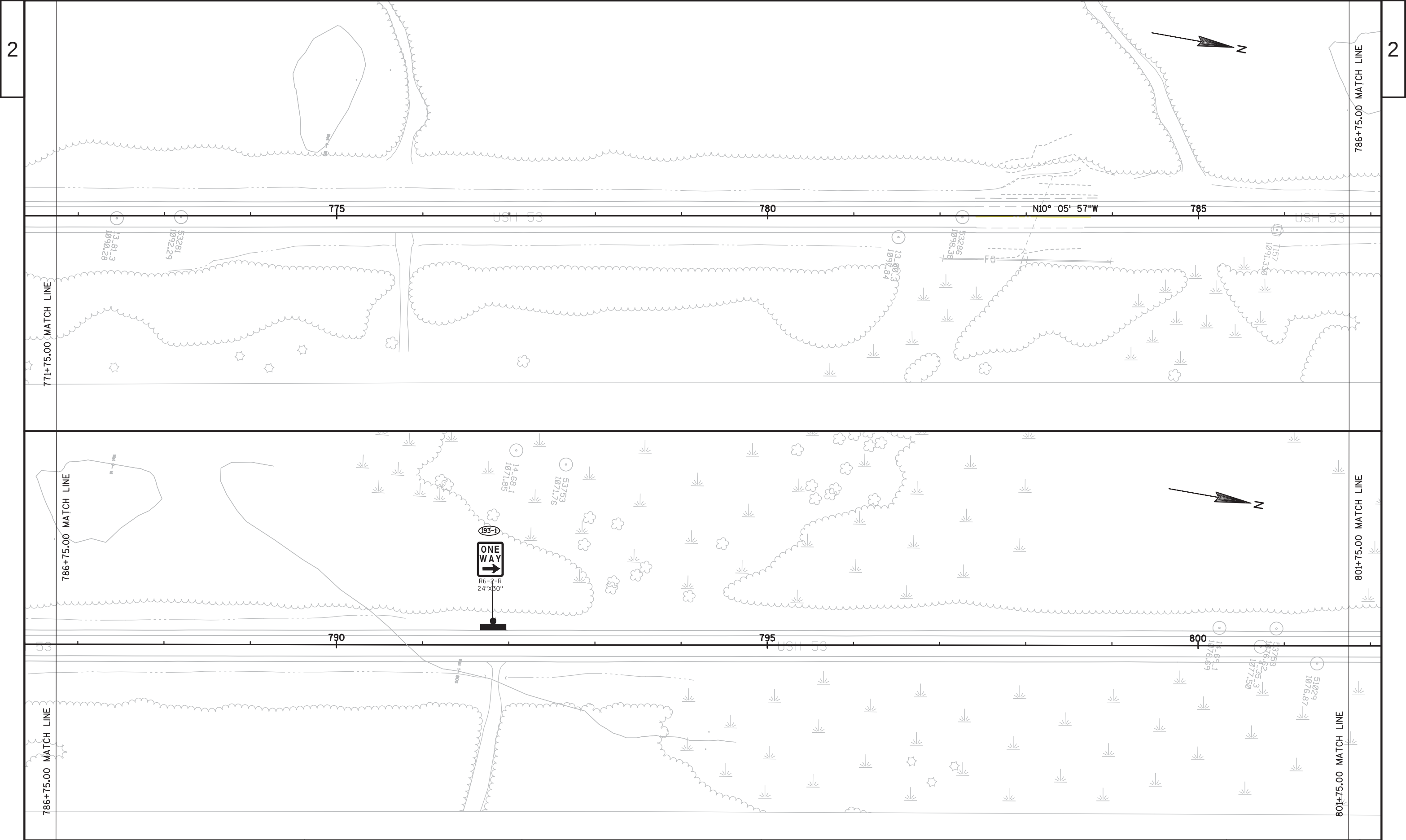
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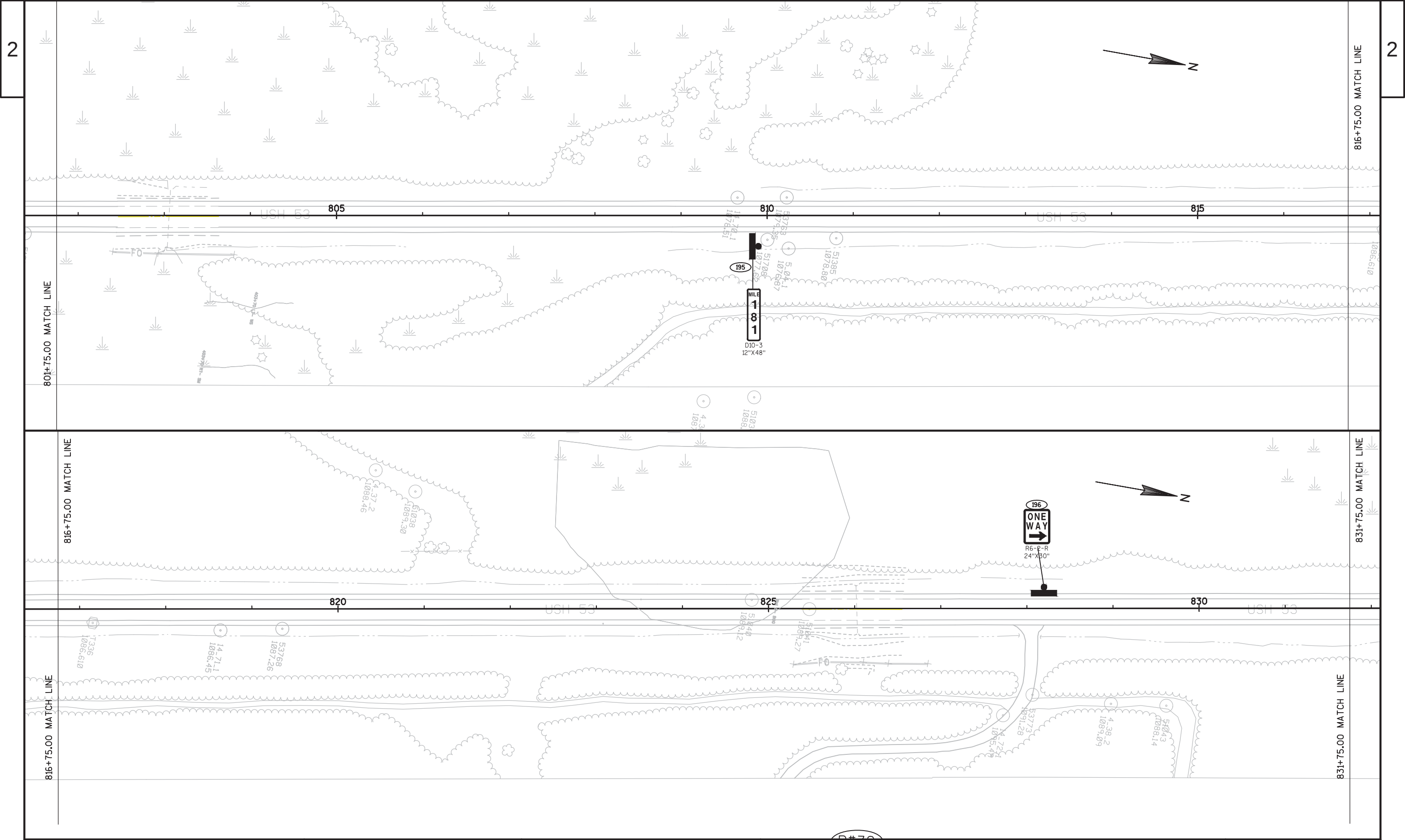
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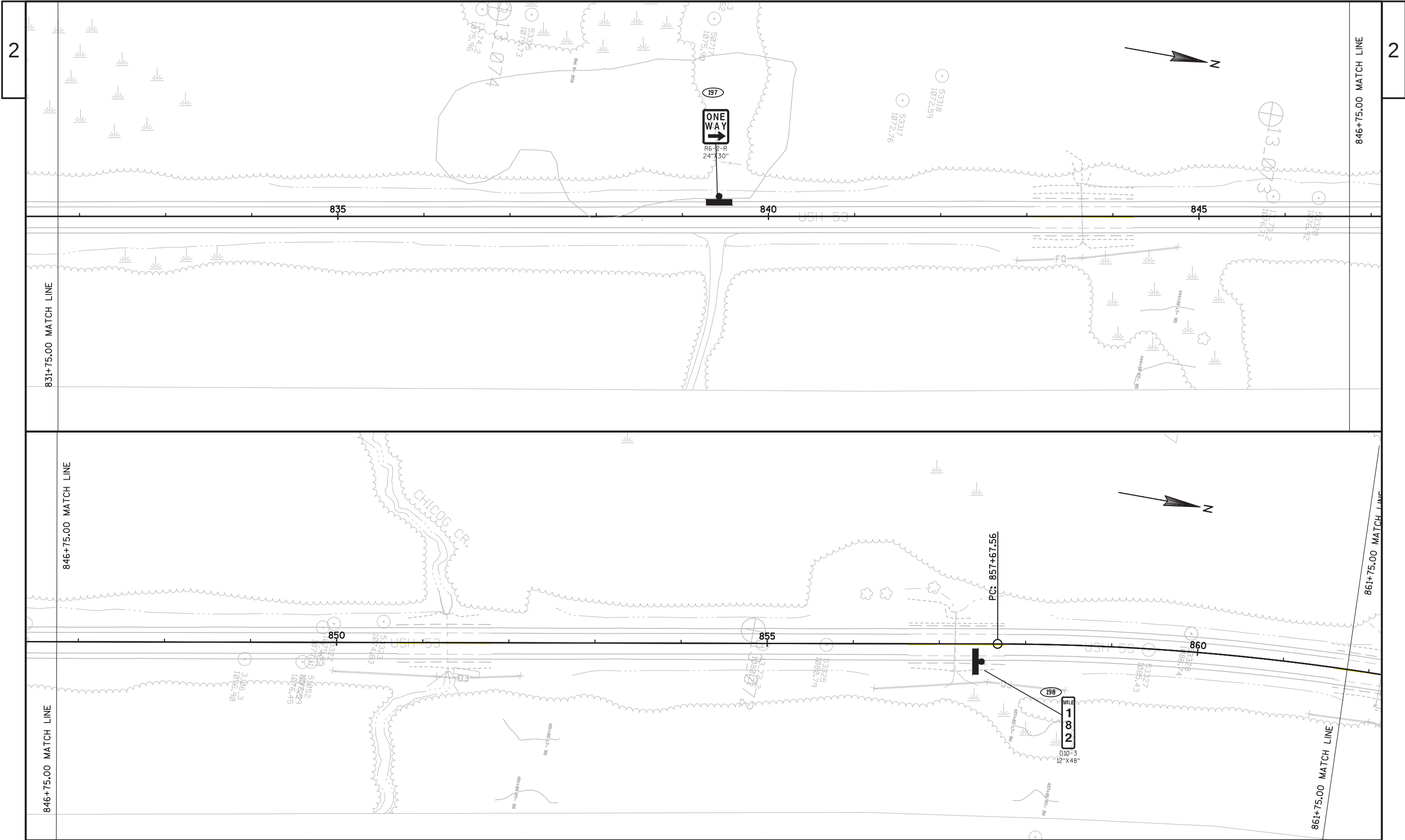
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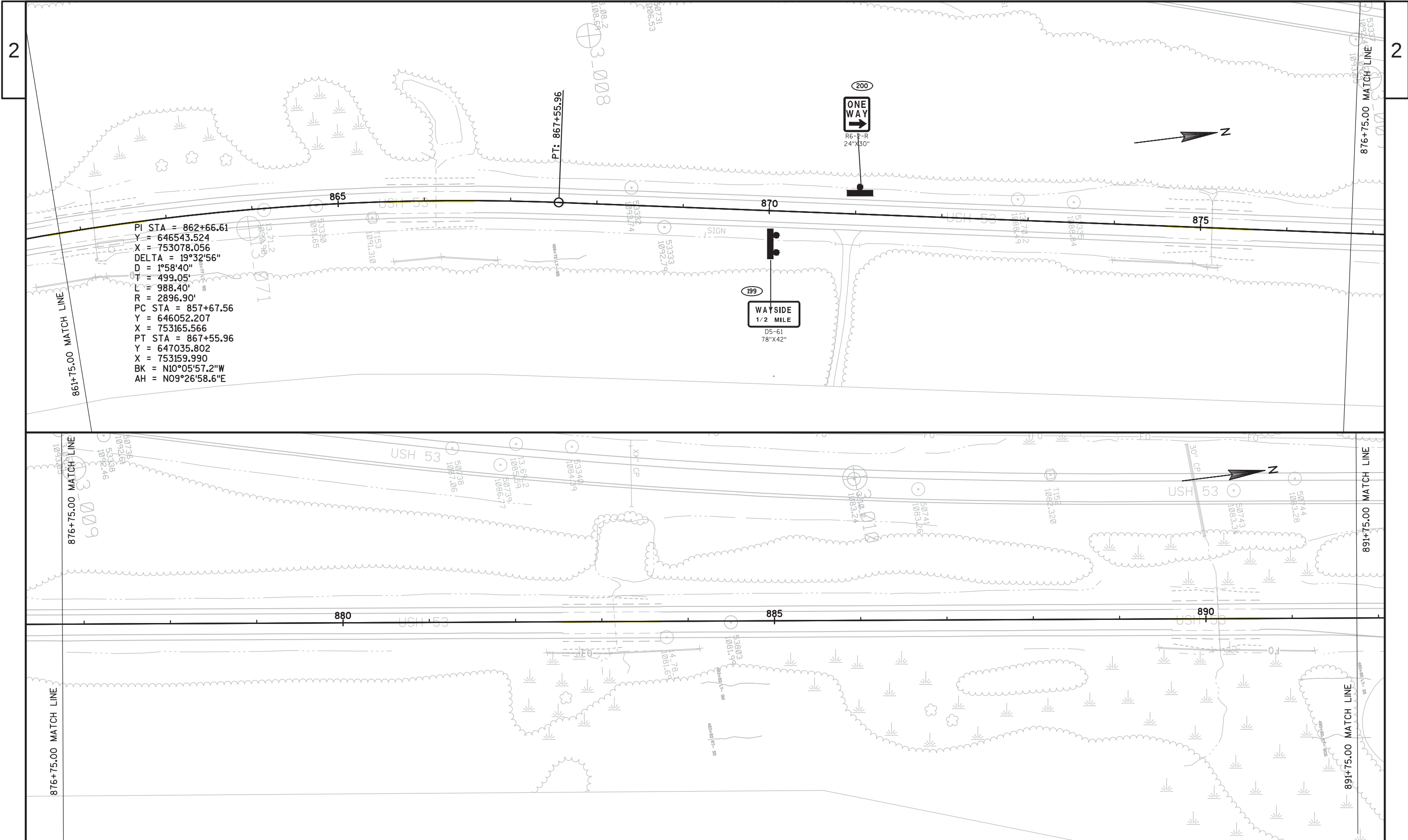
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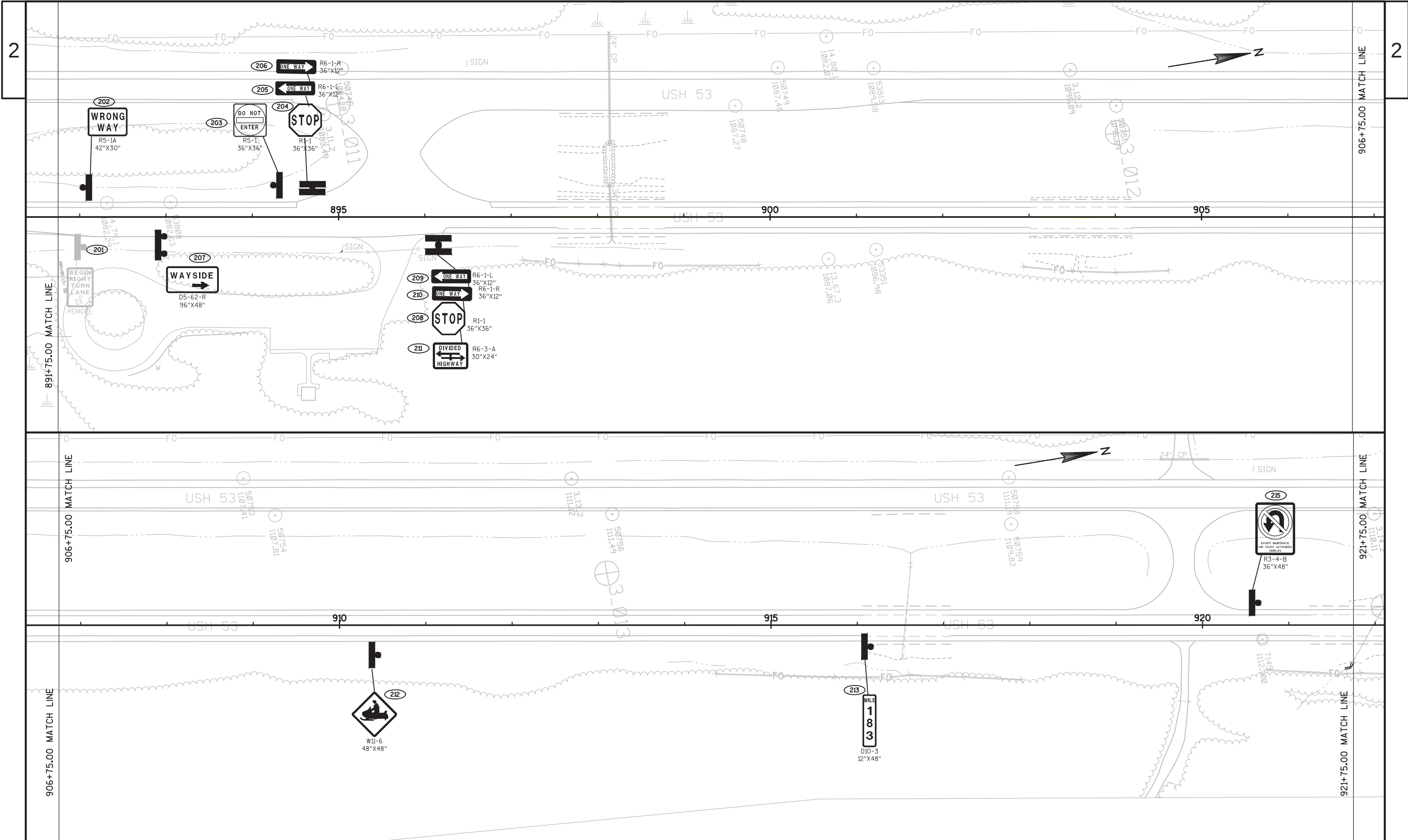
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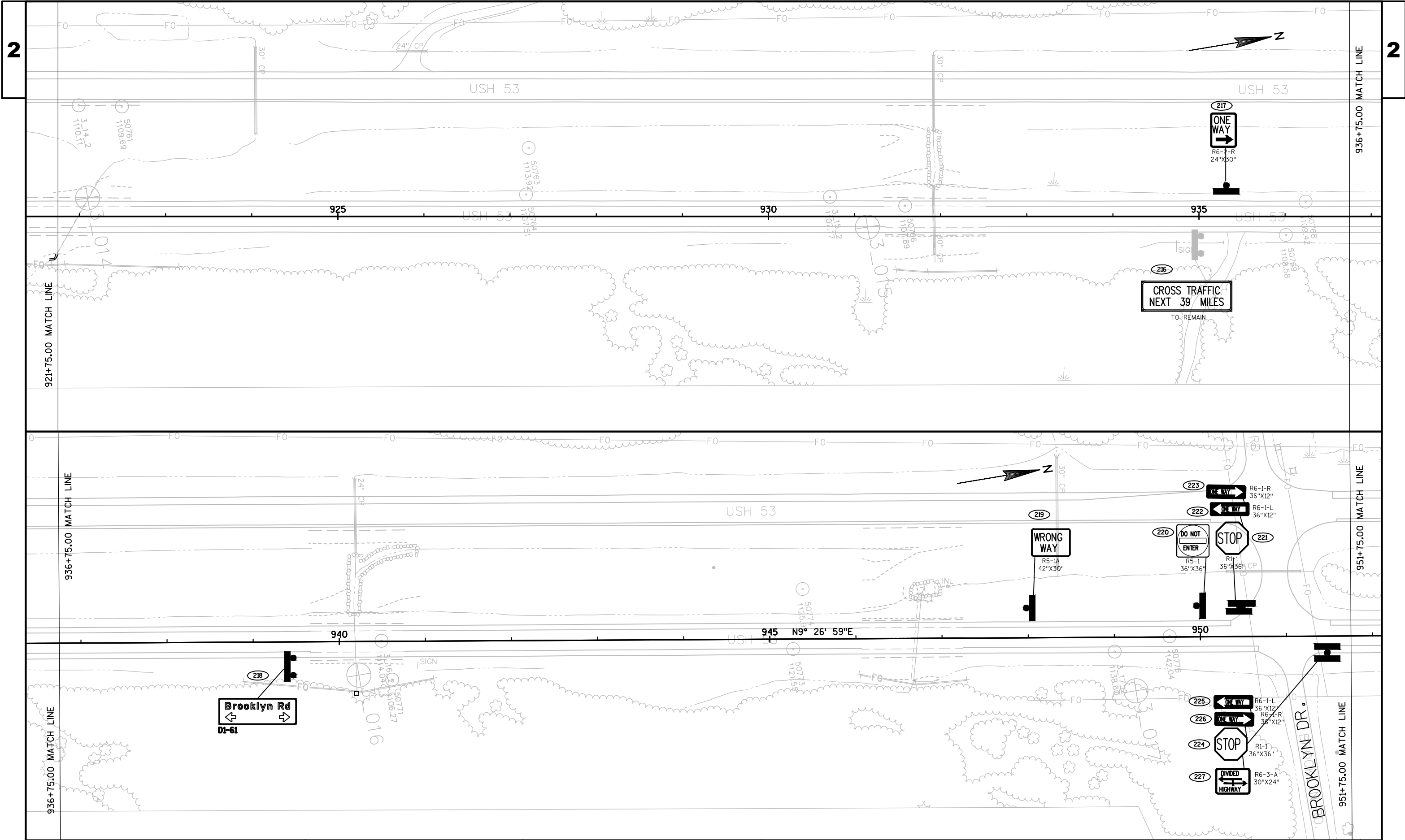


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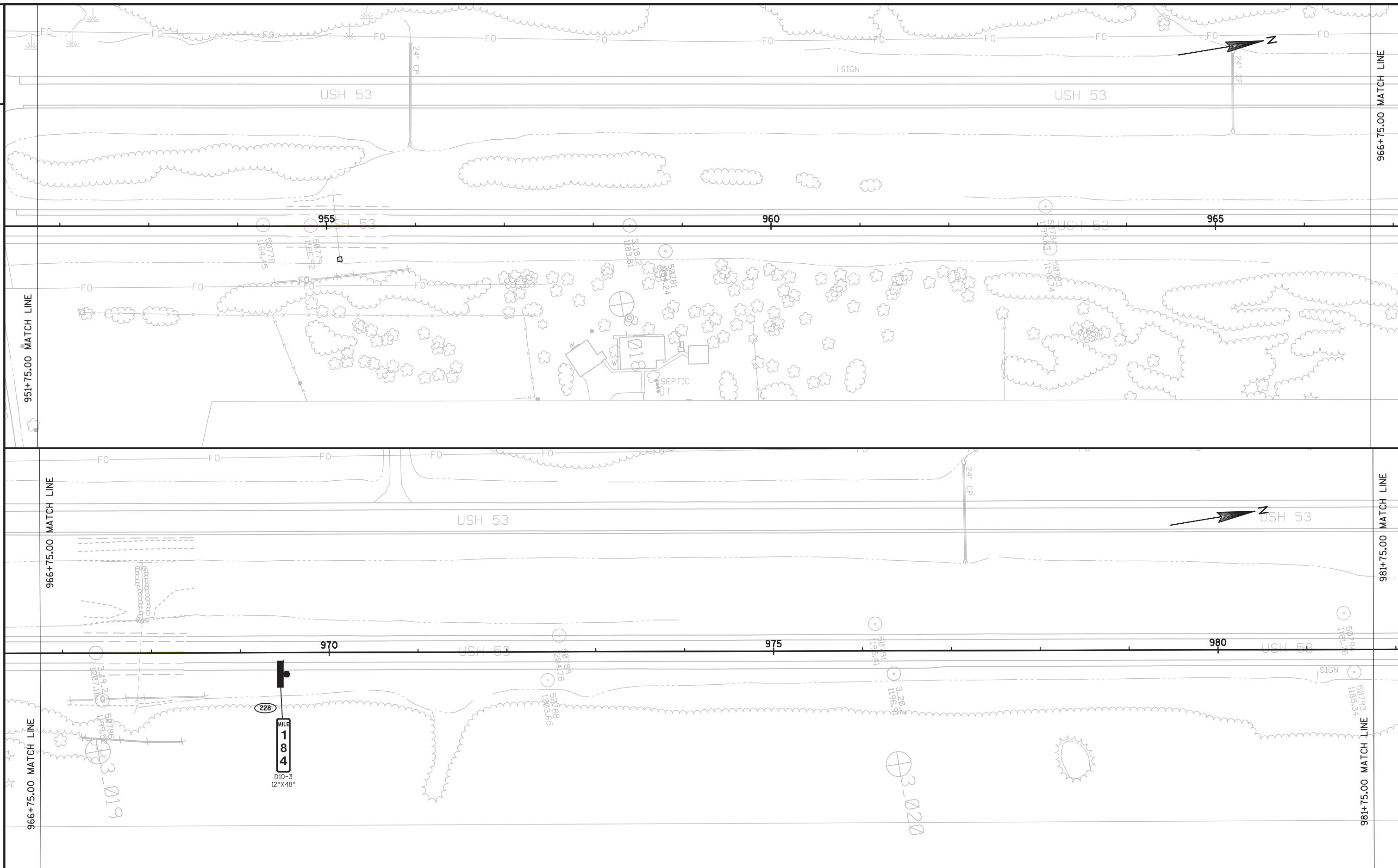
PI STA = 862+66.61
Y = 646543.524
X = 753078.056
DELTA = 19°32'56"
D = 1°58'40"
T = 499.05'
L = 988.40'
R = 2896.90'
PC STA = 857+67.56
Y = 646052.207
X = 753165.566
PT STA = 867+55.96
Y = 647035.802
X = 753159.990
BK = N10°05'57.2"W
AH = N09°26'58.6"E



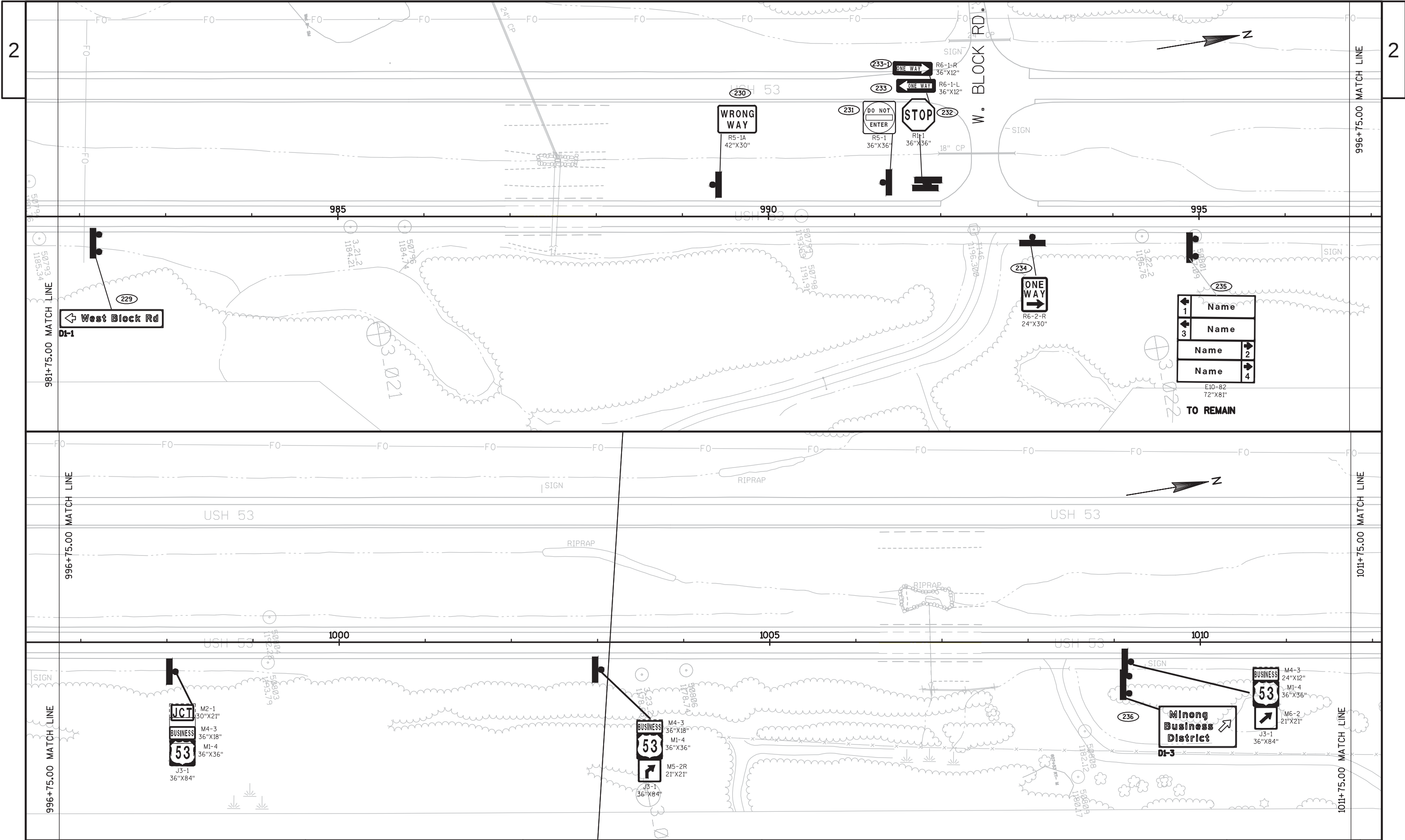


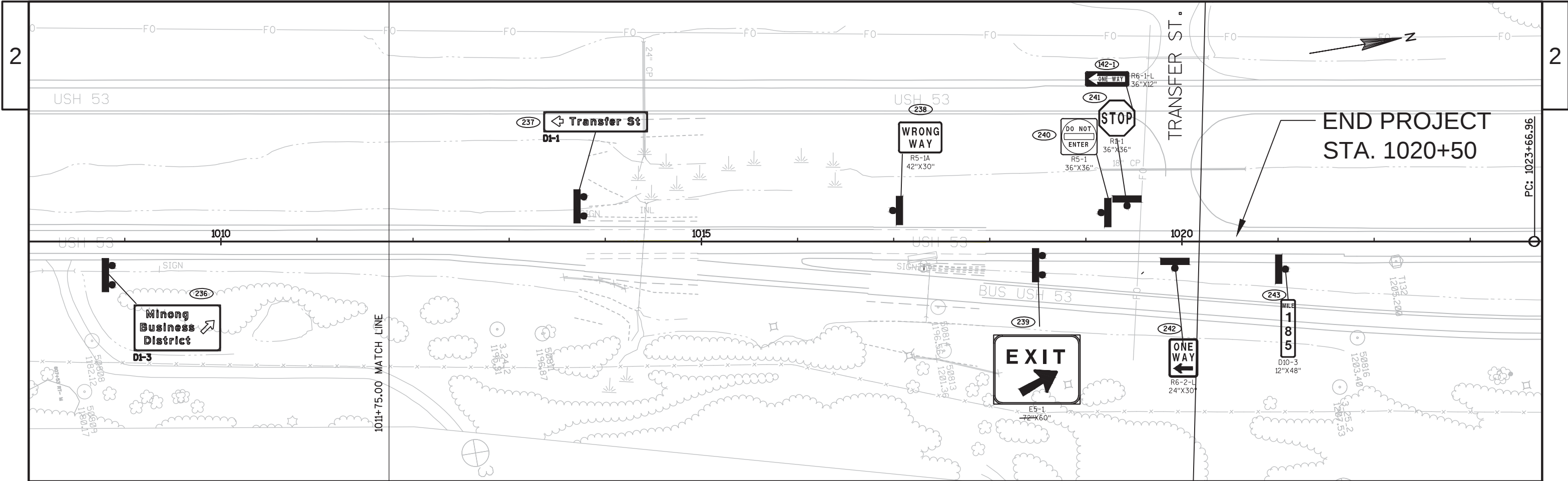
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PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PERMANENT SIGNING PLAN	SHEET	E
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PROJECT NO:1198-08-70

HWY:USH 53

COUNTY:WASHBURN

PERMANENT SIGNING PLAN

SHEET

E

NOTE:

USE SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)" AND "MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVDED ROADWAY" FOR MOVING OPERATIONS.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE "WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (WMUTCD). A SUPPLEMENT TO THE FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

THE EXACT NUMBER, LOCATION AND SPACING OF ALL TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE A.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

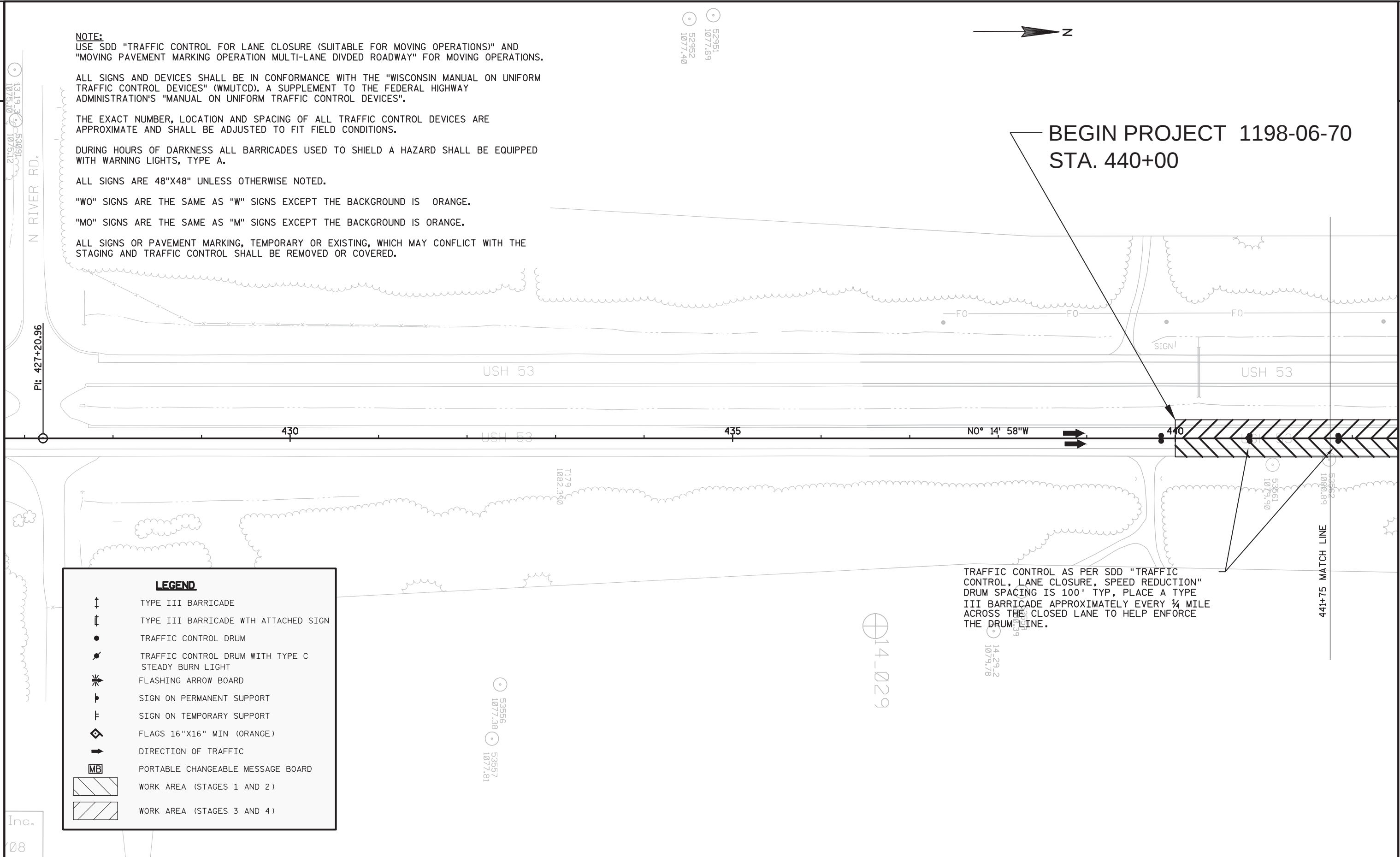
"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

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

ALL SIGNS OR PAVEMENT MARKING, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE STAGING AND TRAFFIC CONTROL SHALL BE REMOVED OR COVERED.

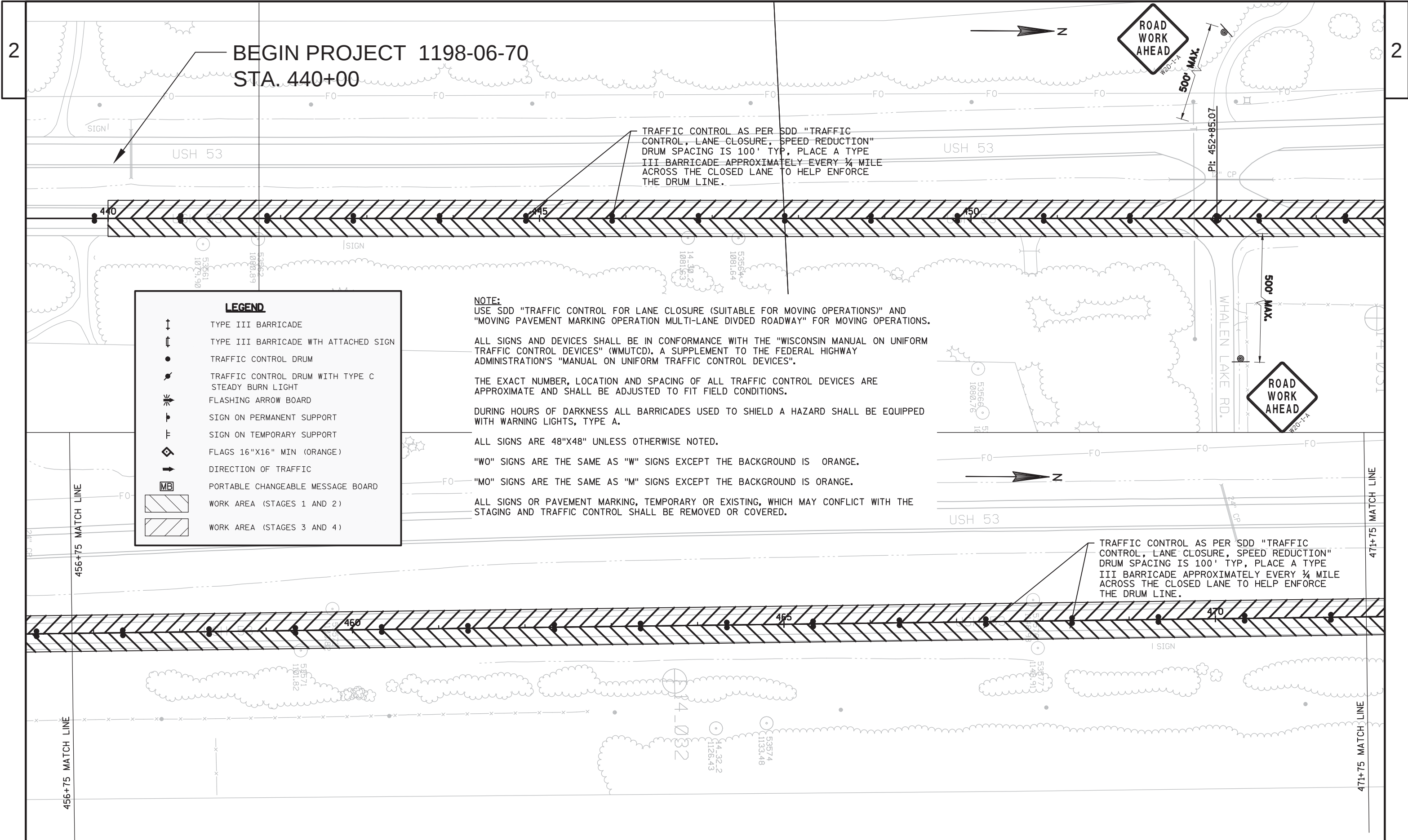


BEGIN PROJECT 1198-06-70
STA. 440+00

**LEGEND**

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLAGS 16"X16" MIN (ORANGE)
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA (STAGES 1 AND 2)
- WORK AREA (STAGES 3 AND 4)

TRAFFIC CONTROL AS PER SDD "TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION" DRUM SPACING IS 100' TYP. PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1/4 MILE ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.



BEGIN PROJECT 1198-06-70
STA. 440+00

TRAFFIC CONTROL AS PER SDD "TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION" DRUM SPACING IS 100' TYP, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY ¼ MILE ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- FLAGS 16"X16" MIN (ORANGE)
- DIRECTION OF TRAFFIC
- PORTABLE CHANGEABLE MESSAGE BOARD
- WORK AREA (STAGES 1 AND 2)
- WORK AREA (STAGES 3 AND 4)

NOTE:
USE SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)" AND "MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY" FOR MOVING OPERATIONS.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE "WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (WMUTCD). A SUPPLEMENT TO THE FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

THE EXACT NUMBER, LOCATION AND SPACING OF ALL TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE A.

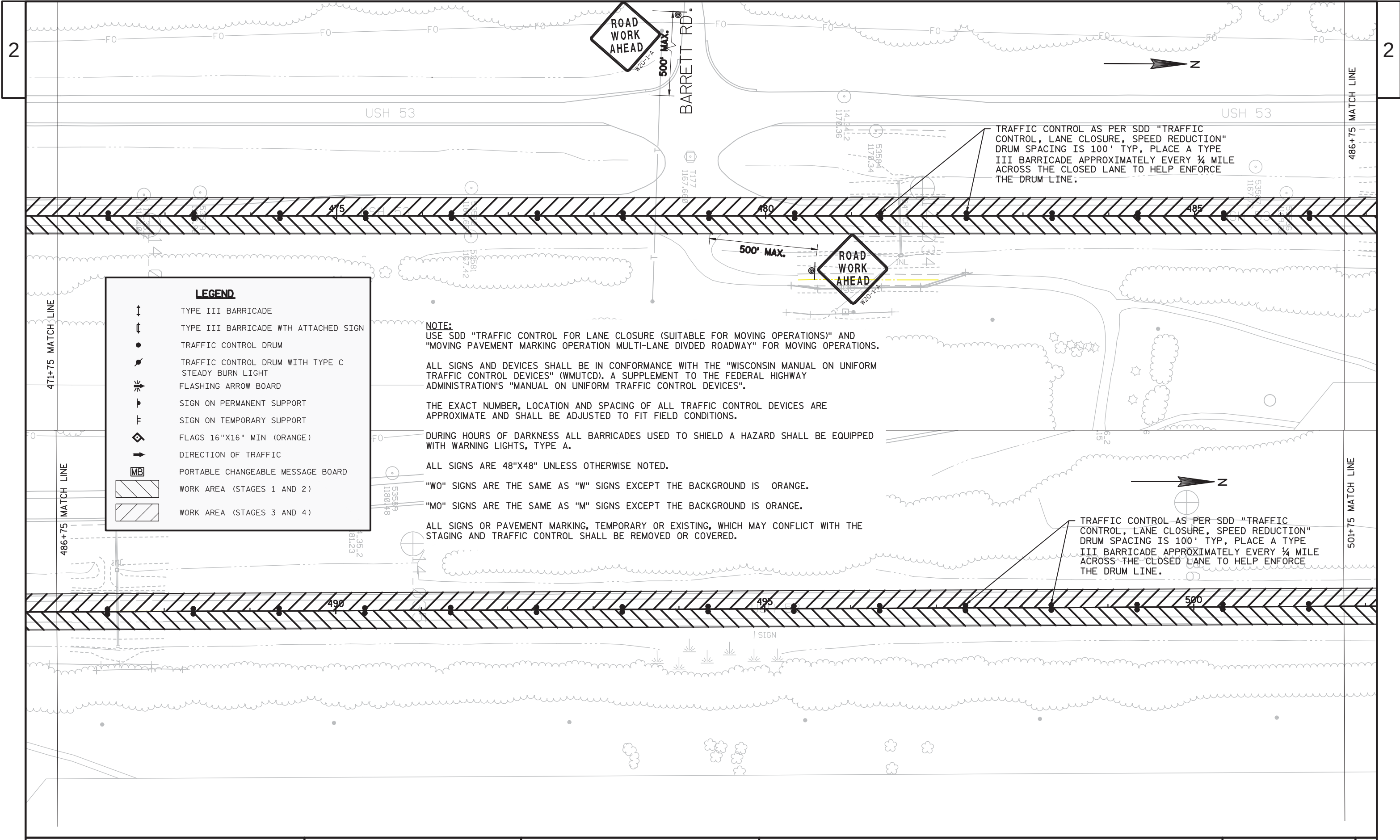
ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

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

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

ALL SIGNS OR PAVEMENT MARKING, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE STAGING AND TRAFFIC CONTROL SHALL BE REMOVED OR COVERED.

TRAFFIC CONTROL AS PER SDD "TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION" DRUM SPACING IS 100' TYP, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY ¼ MILE ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.



LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WTH ATTACHED SIGN

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

FLASHING ARROW BOARD

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

FLAGS 16"X16" MIN (ORANGE)

DIRECTION OF TRAFFIC

PORTABLE CHANGEABLE MESSAGE BOARD

WORK AREA (STAGES 1 AND 2)

WORK AREA (STAGES 3 AND 4)

NOTE:
USE SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)" AND "MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVDED ROADWAY" FOR MOVING OPERATIONS.

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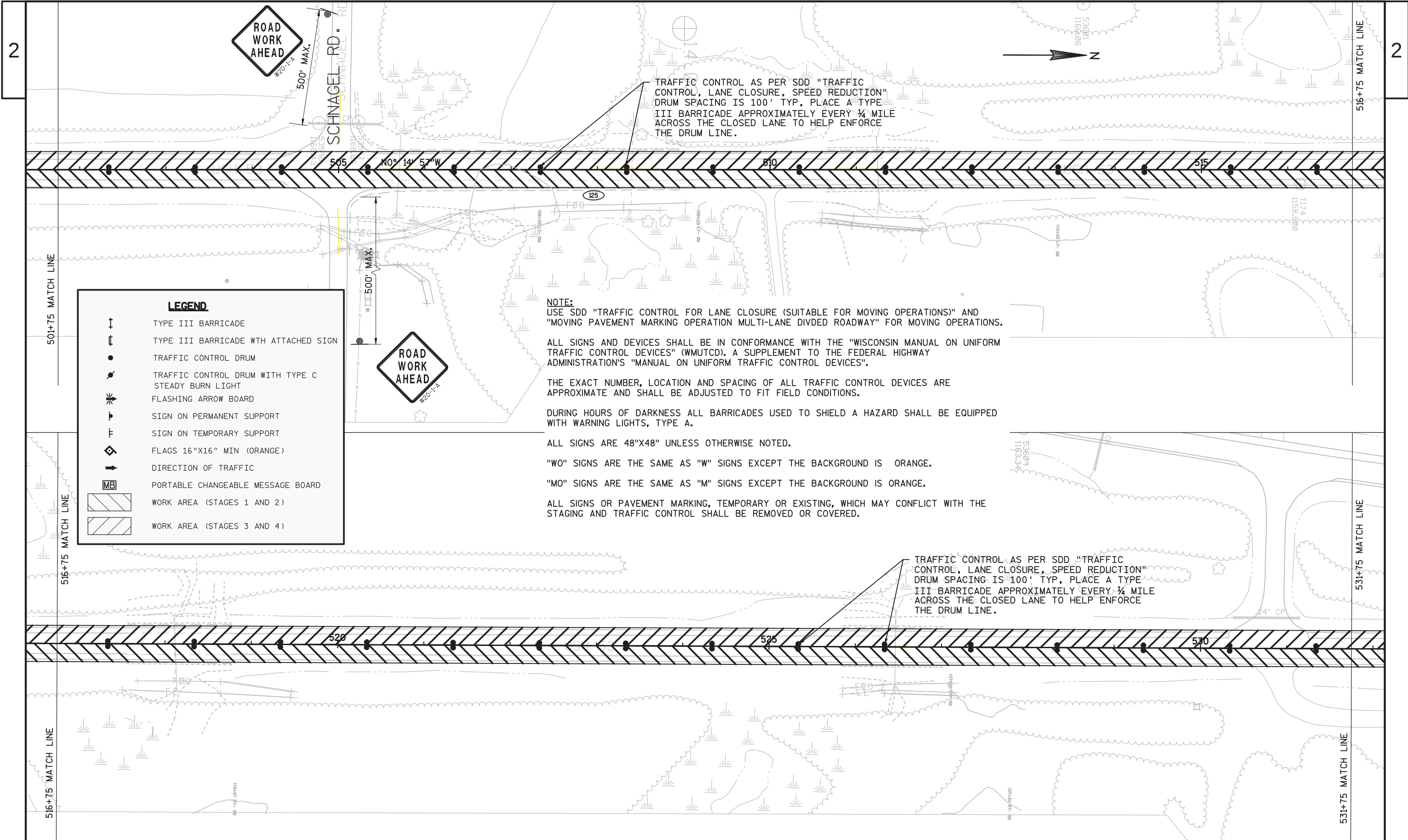
DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE A.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

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

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

ALL SIGNS OR PAVEMENT MARKING, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE STAGING AND TRAFFIC CONTROL SHALL BE REMOVED OR COVERED.



2

2

LEGEND

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MB

TYPE III BARRICADE
TYPE III BARRICADE WITH ATTACHED SIGN
TRAFFIC CONTROL DRUM
TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
FLASHING ARROW BOARD
SIGN ON PERMANENT SUPPORT
SIGN ON TEMPORARY SUPPORT
FLAGS 16"X16" MIN (ORANGE)
DIRECTION OF TRAFFIC
PORTABLE CHANGEABLE MESSAGE BOARD
WORK AREA (STAGES 1 AND 2)
WORK AREA (STAGES 3 AND 4)

NOTE:
USE SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)" AND "MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVDED ROADWAY" FOR MOVING OPERATIONS.

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DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE A.

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

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PROJECT NO:1198-08-70

HWY:USH 53

COUNTY:WASHBURN

TRAFFIC CONTROL - STAGE (1 & 2) AND STAGE (3 & 4)

SHEET

E

FILE NAME : N:\PDS\C3D\11980831\SHEETSP\AN6_025001_TC_PSE2017.DWG
LAYOUT NAME - 53 - (24)

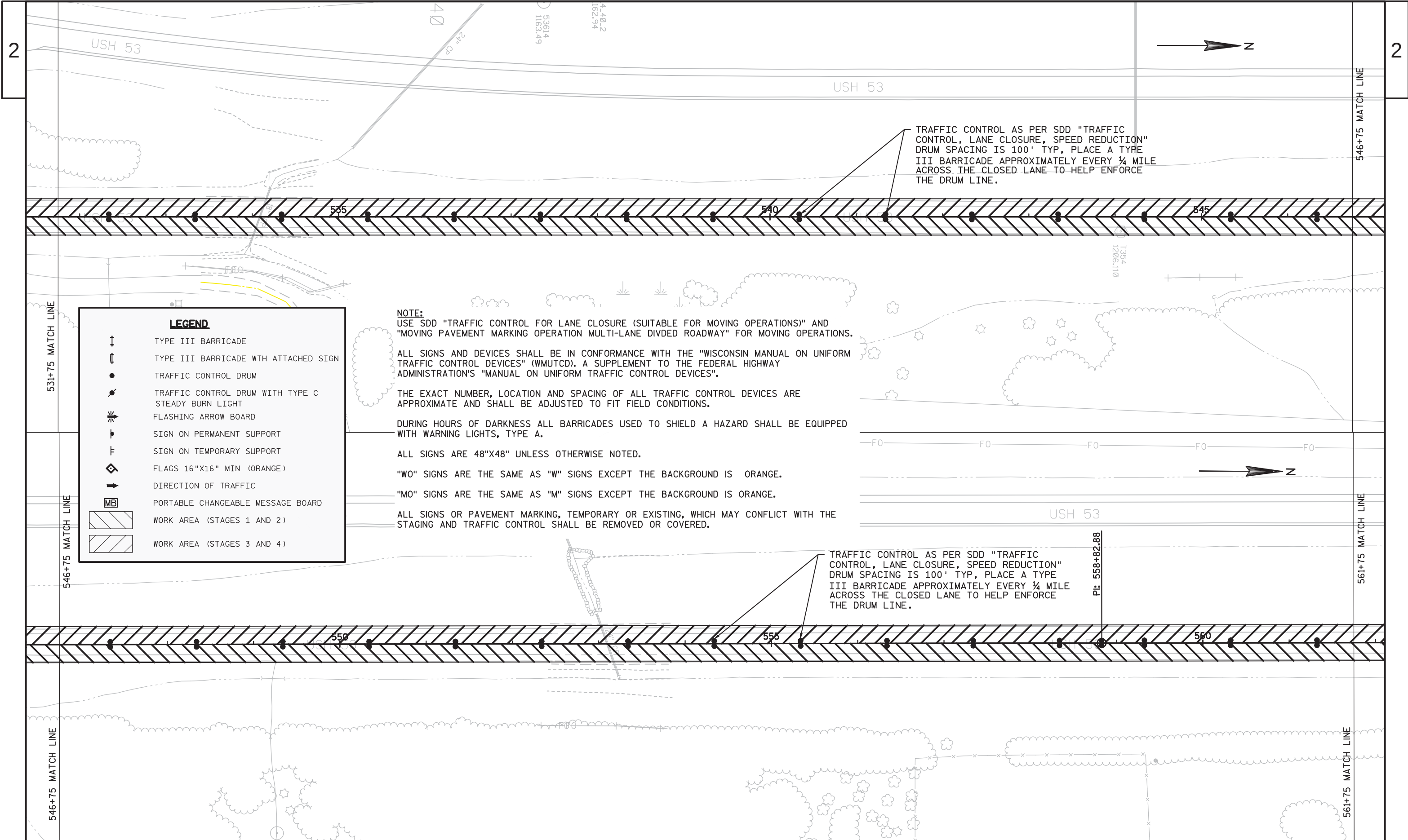
PLOT DATE : 3/2/2017 11:45 AM

PLOT BY : PHU, DANIEL C

PLOT NAME :

PLOT SCALE : 1 IN:100 FT

WISDOT/CADDs SHEET 44



LEGEND

- ↑ TYPE III BARRICADE
- ↑ TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- ↔ FLASHING ARROW BOARD
- ⊥ SIGN ON PERMANENT SUPPORT
- ⊥ SIGN ON TEMPORARY SUPPORT
- ◇ FLAGS 16"X16" MIN (ORANGE)
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- ▨ WORK AREA (STAGES 1 AND 2)
- ▨ WORK AREA (STAGES 3 AND 4)

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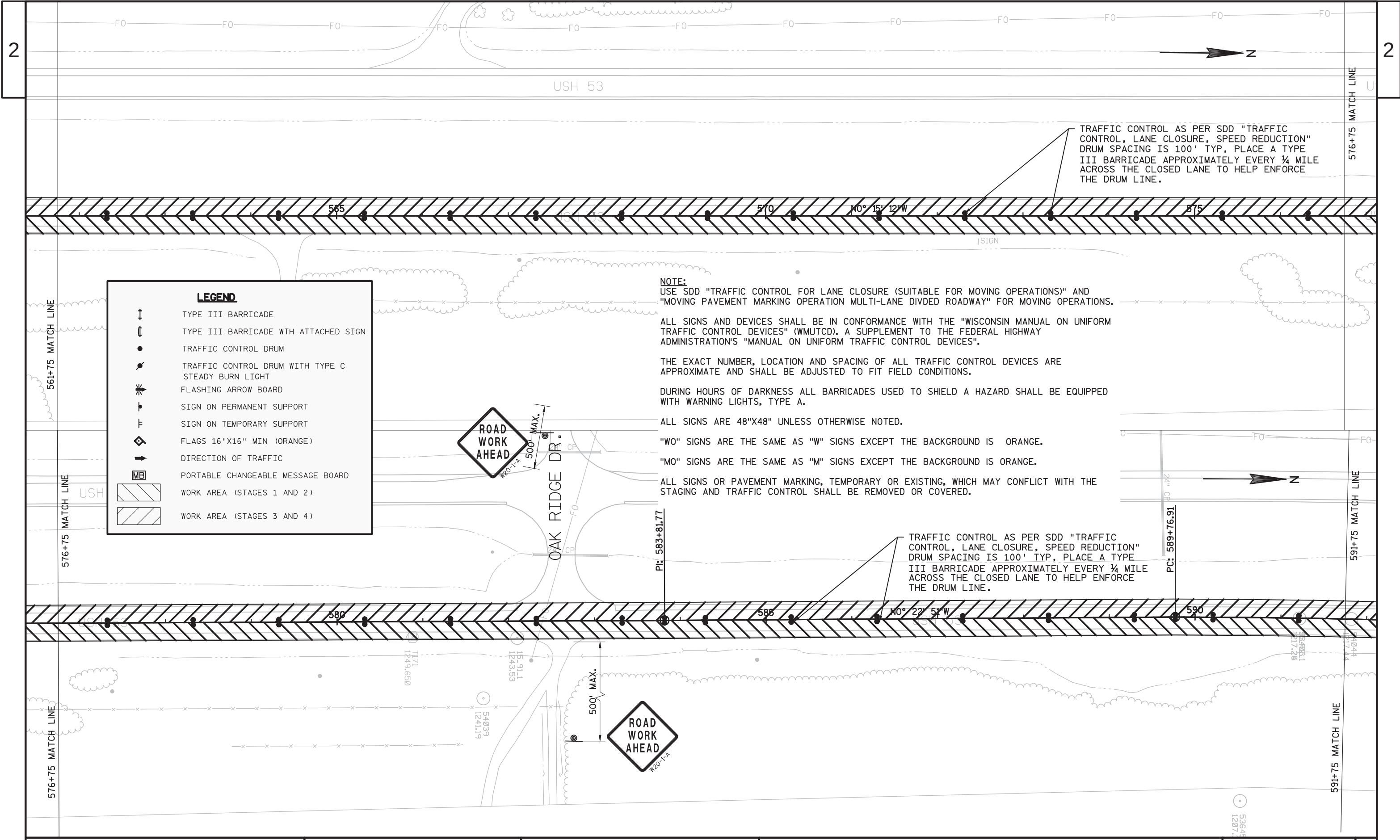
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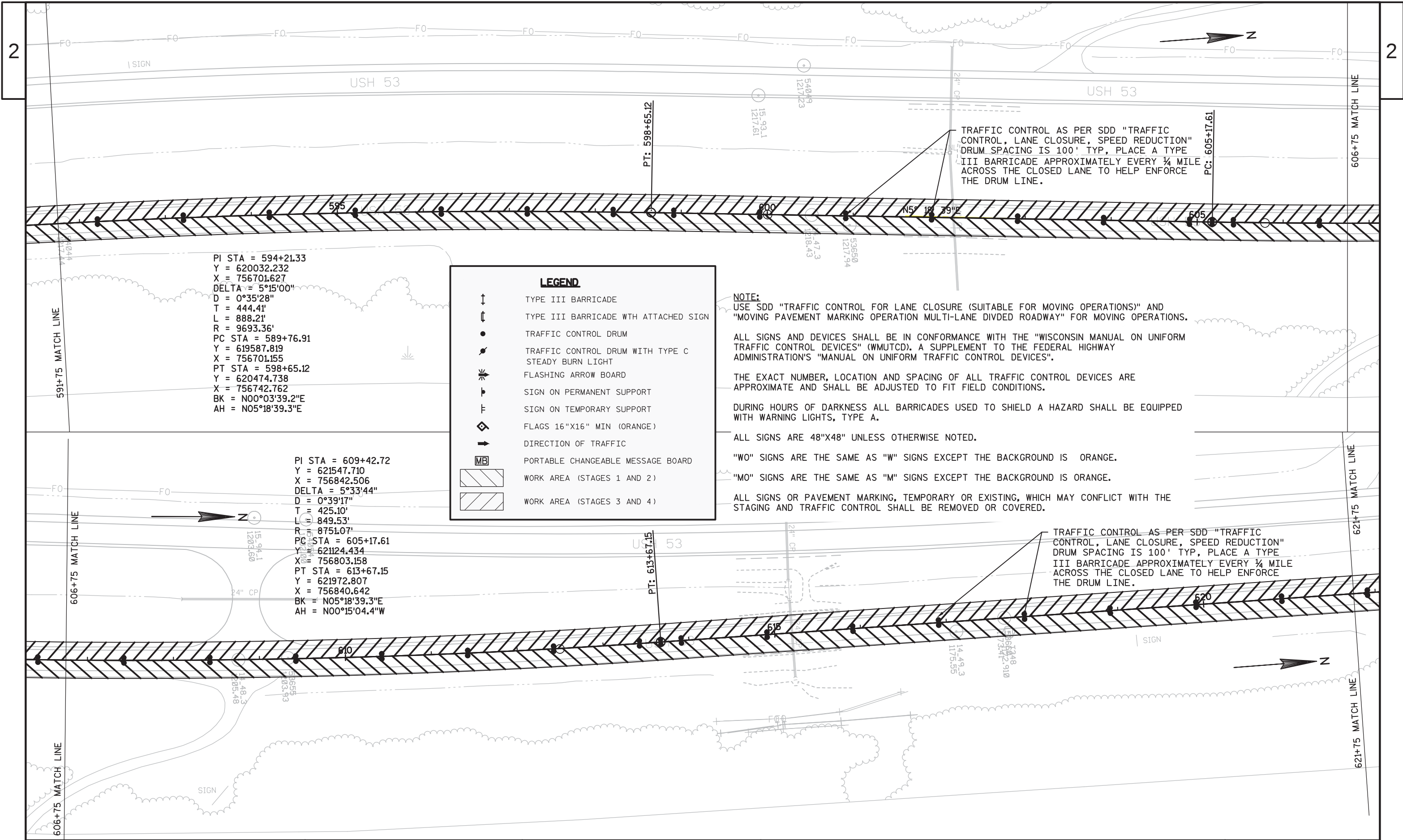
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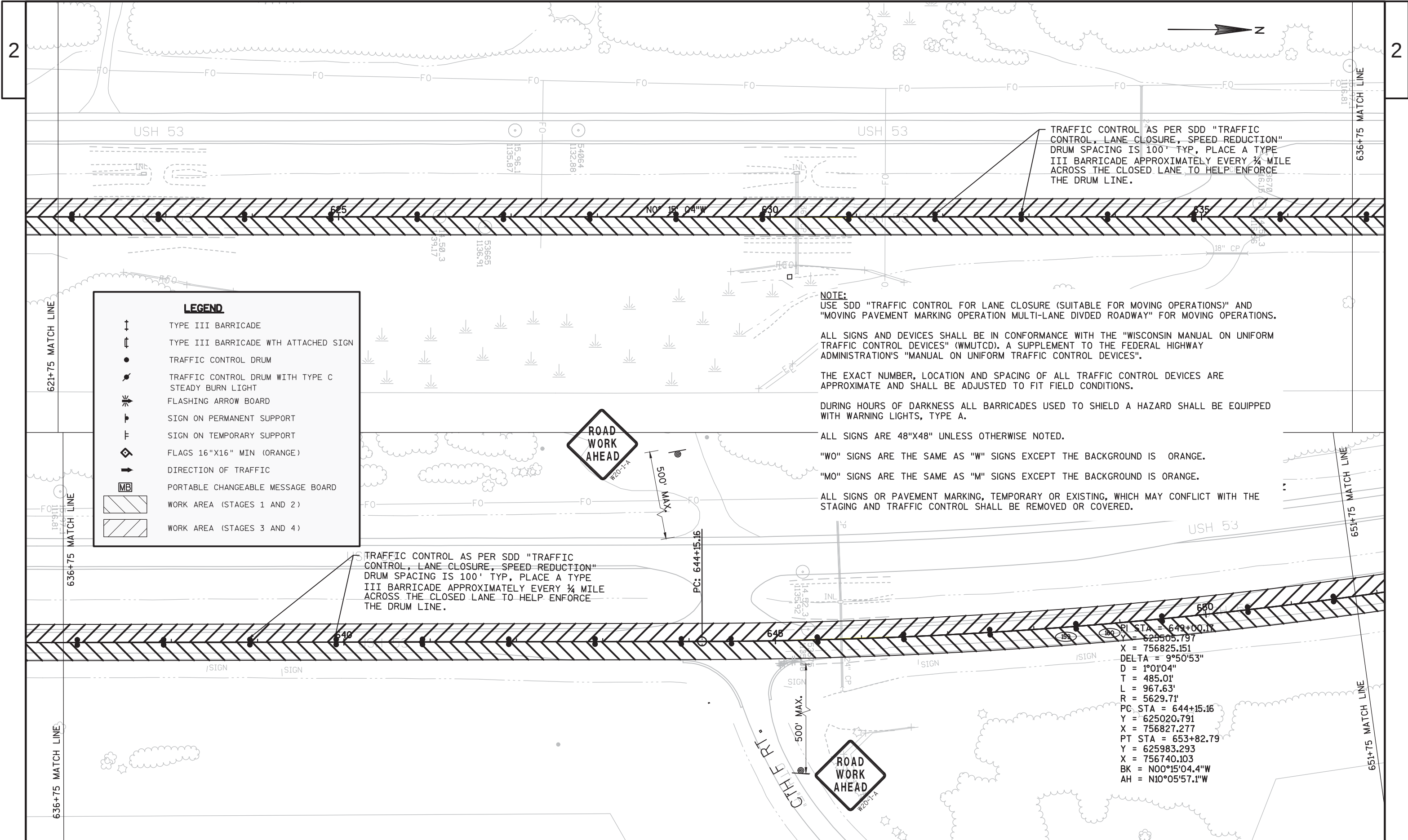
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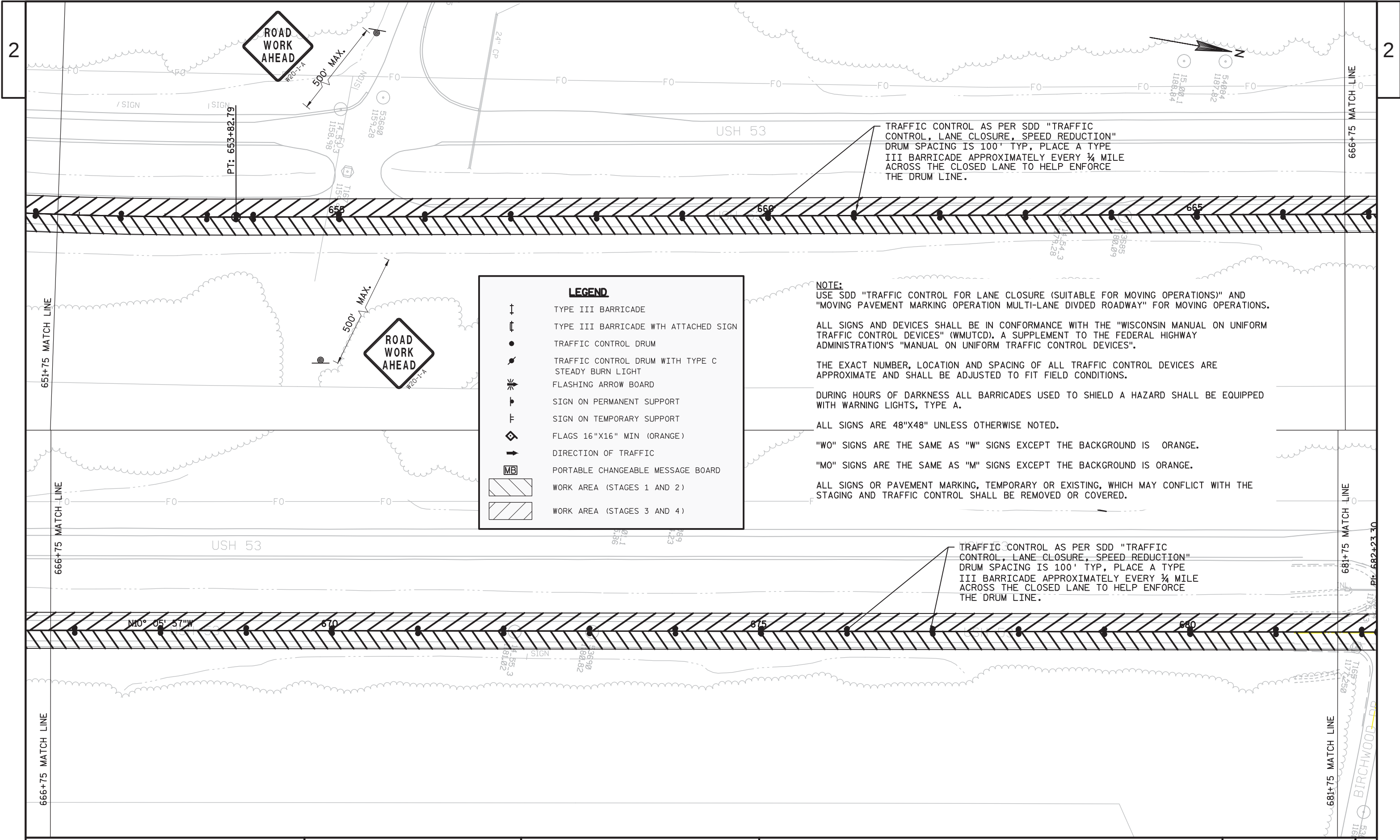
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LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

FLASHING ARROW BOARD

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

FLAGS 16"X16" MIN (ORANGE)

DIRECTION OF TRAFFIC

PORTABLE CHANGEABLE MESSAGE BOARD

WORK AREA (STAGES 1 AND 2)

WORK AREA (STAGES 3 AND 4)

NOTE:
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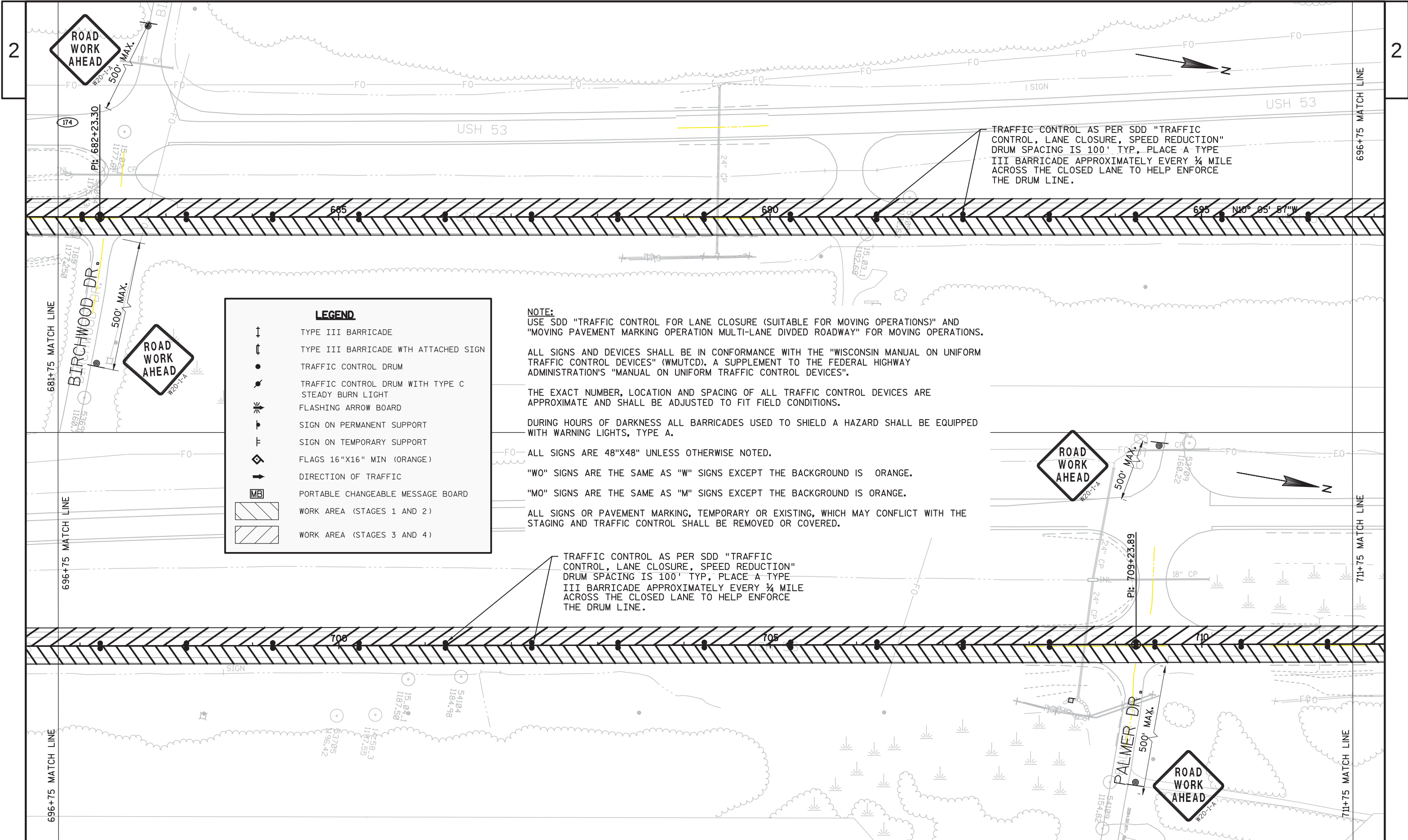
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LEGEND

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- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- FLASHING ARROW BOARD
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
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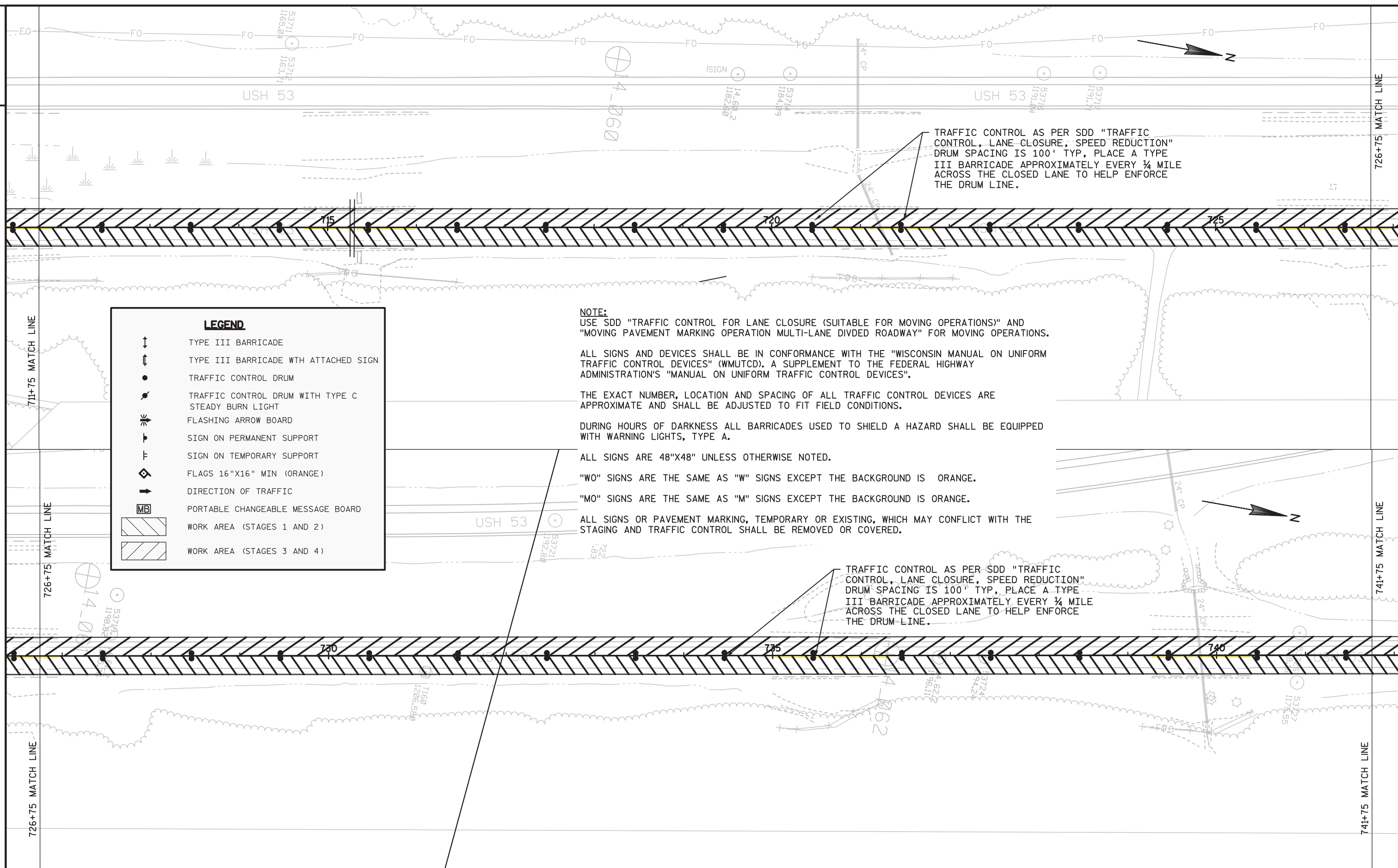
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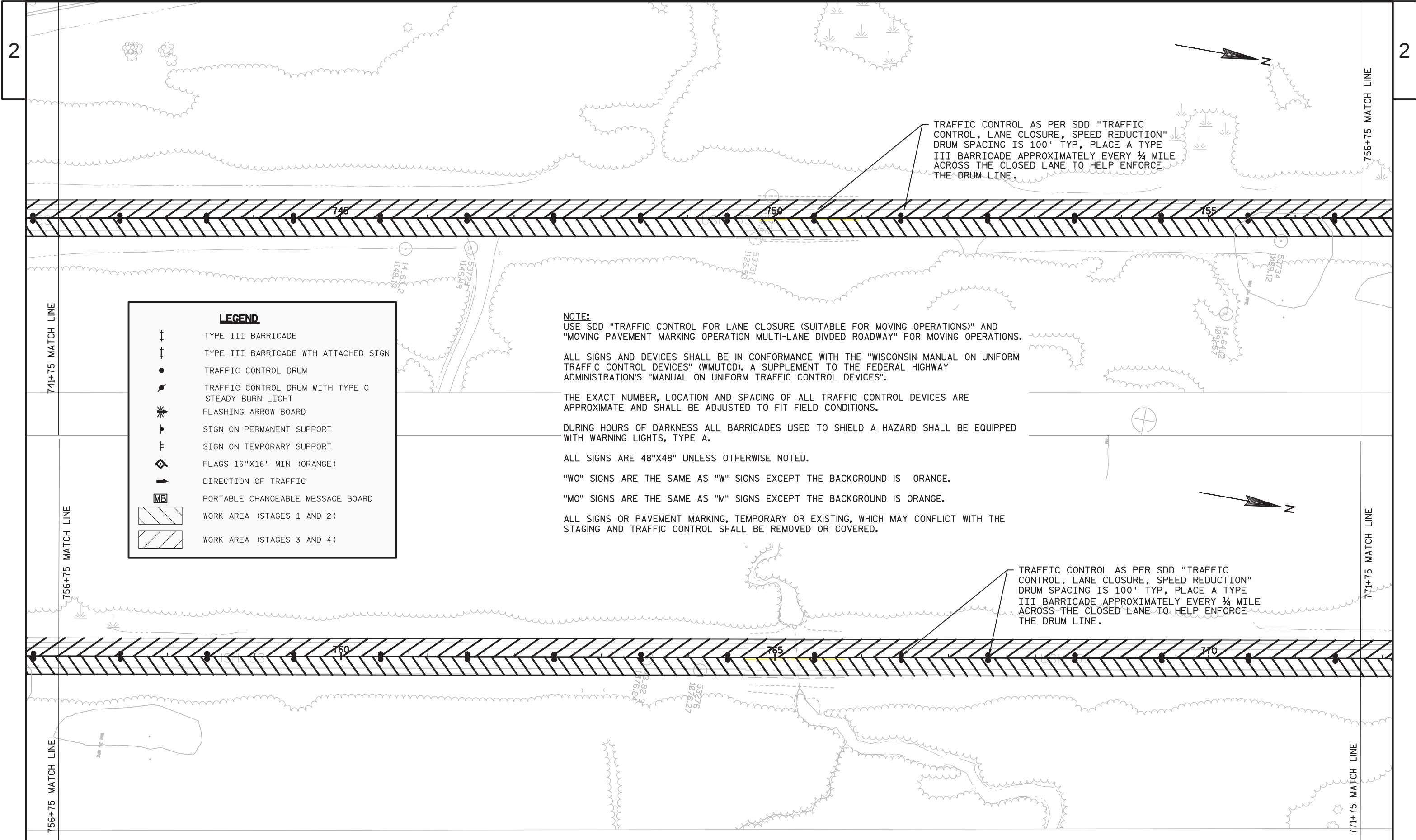
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LEGEND

↑

↓

TYPE III BARRICADE

↑

↓

TYPE III BARRICADE WITH ATTACHED SIGN

●

TRAFFIC CONTROL DRUM

●

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

⚡

FLASHING ARROW BOARD

⬆

SIGN ON PERMANENT SUPPORT

⬆

SIGN ON TEMPORARY SUPPORT

◇

FLAGS 16"X16" MIN (ORANGE)

➡

DIRECTION OF TRAFFIC

MB

PORTABLE CHANGEABLE MESSAGE BOARD

▨

WORK AREA (STAGES 1 AND 2)

▨

WORK AREA (STAGES 3 AND 4)

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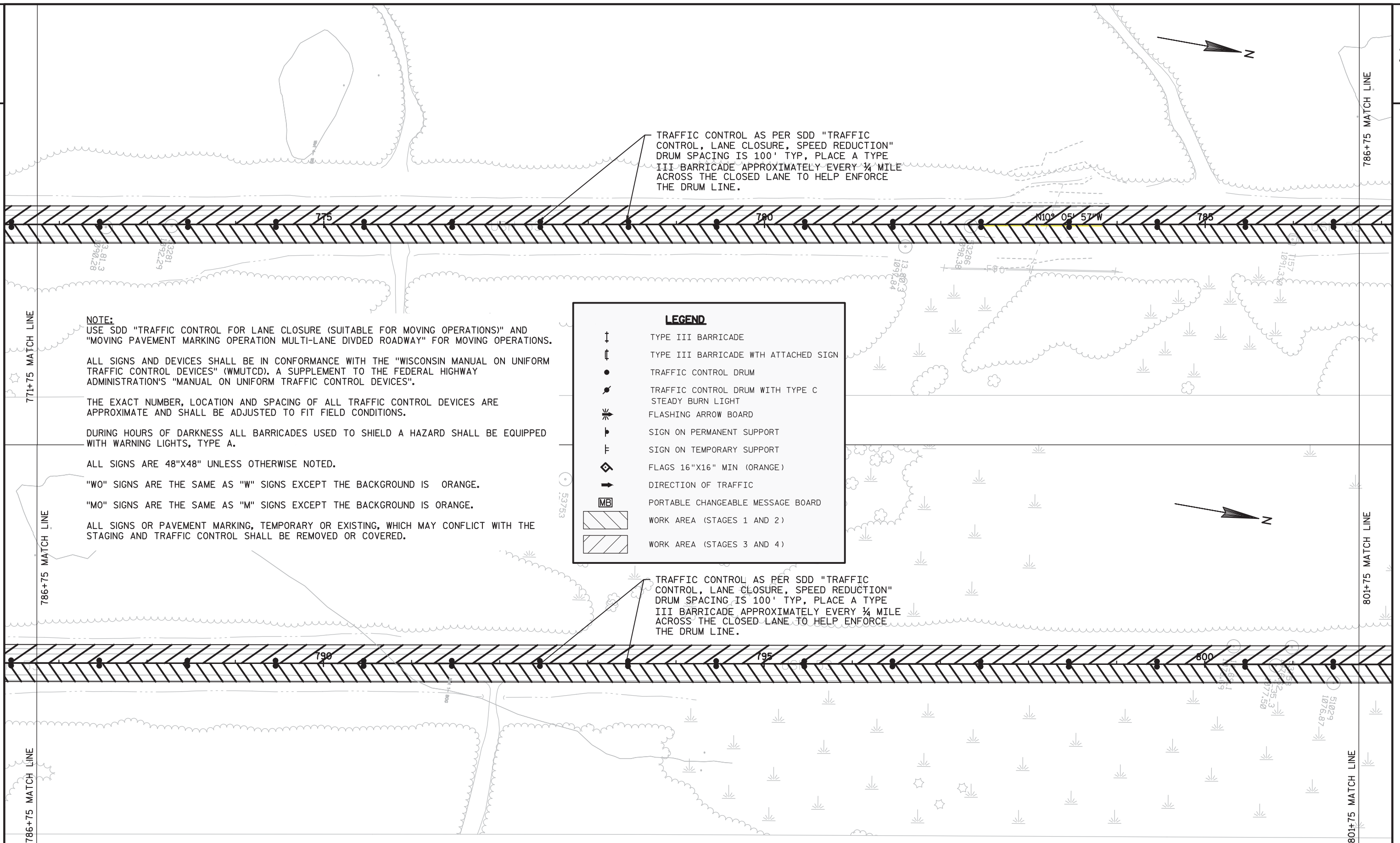
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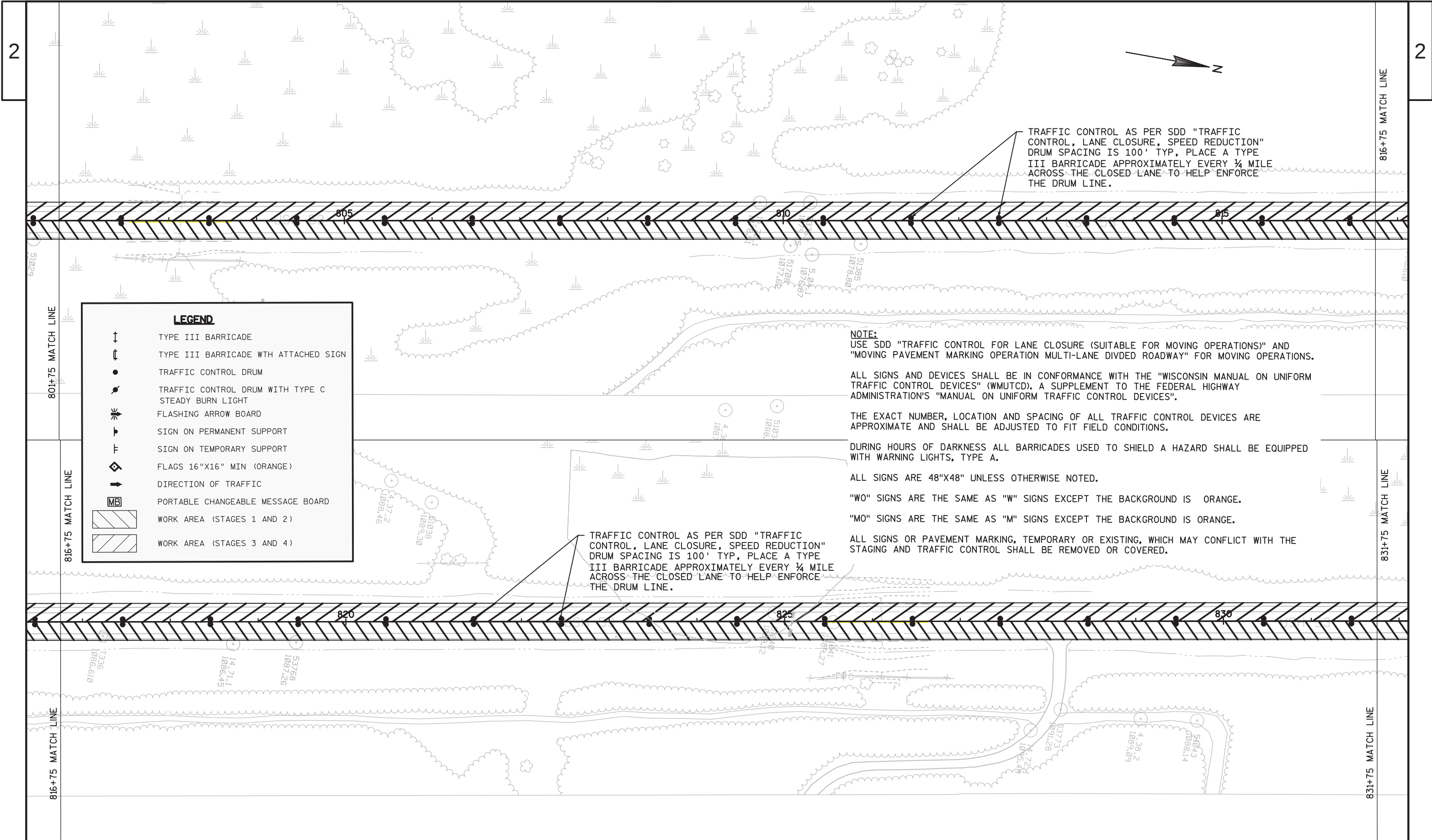
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LEGEND

- ↑ TYPE III BARRICADE
- ↑↑ TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- ⚡ FLASHING ARROW BOARD
- ⚡ SIGN ON PERMANENT SUPPORT
- ⚡ SIGN ON TEMPORARY SUPPORT
- ◇ FLAGS 16"X16" MIN (ORANGE)
- ➔ DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- ▨ WORK AREA (STAGES 1 AND 2)
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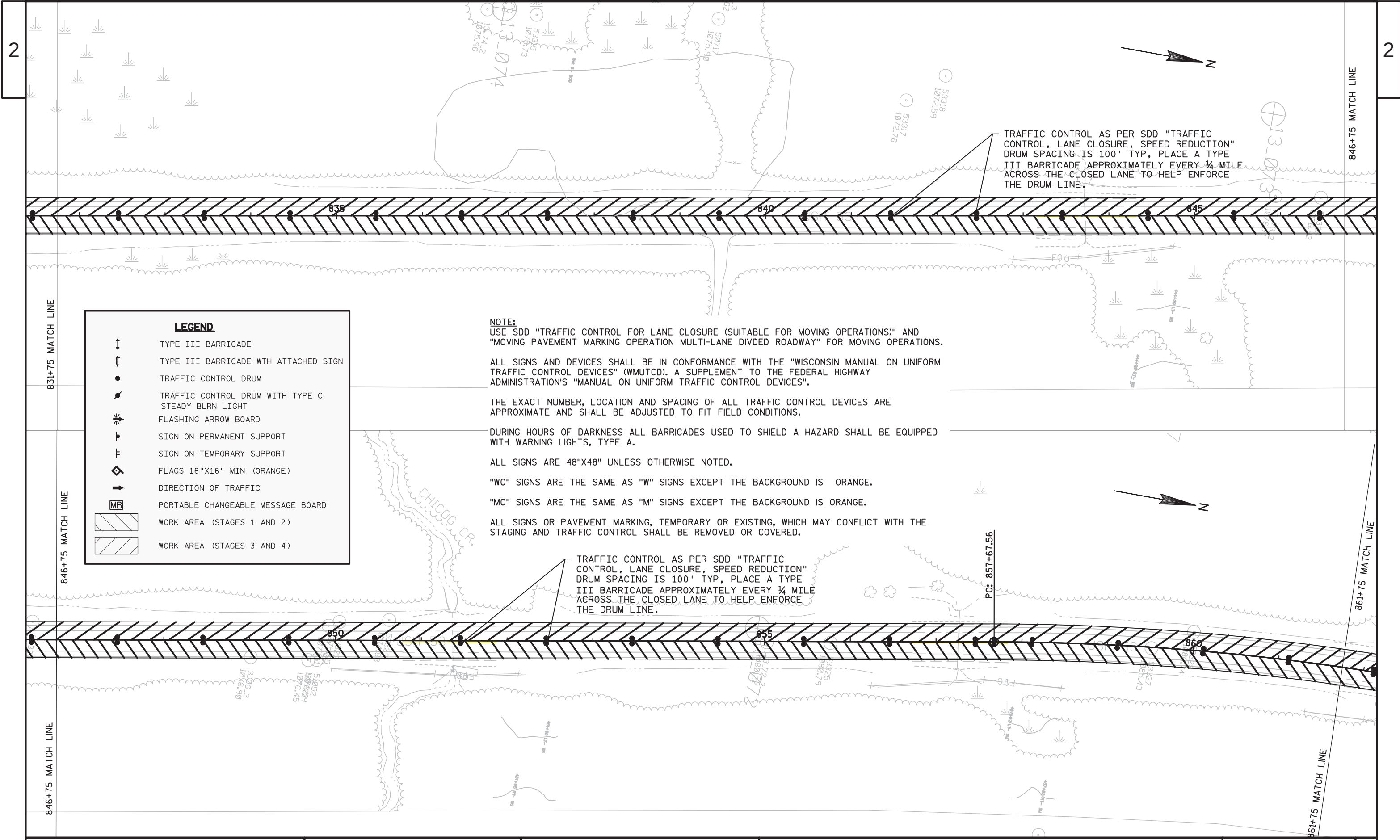
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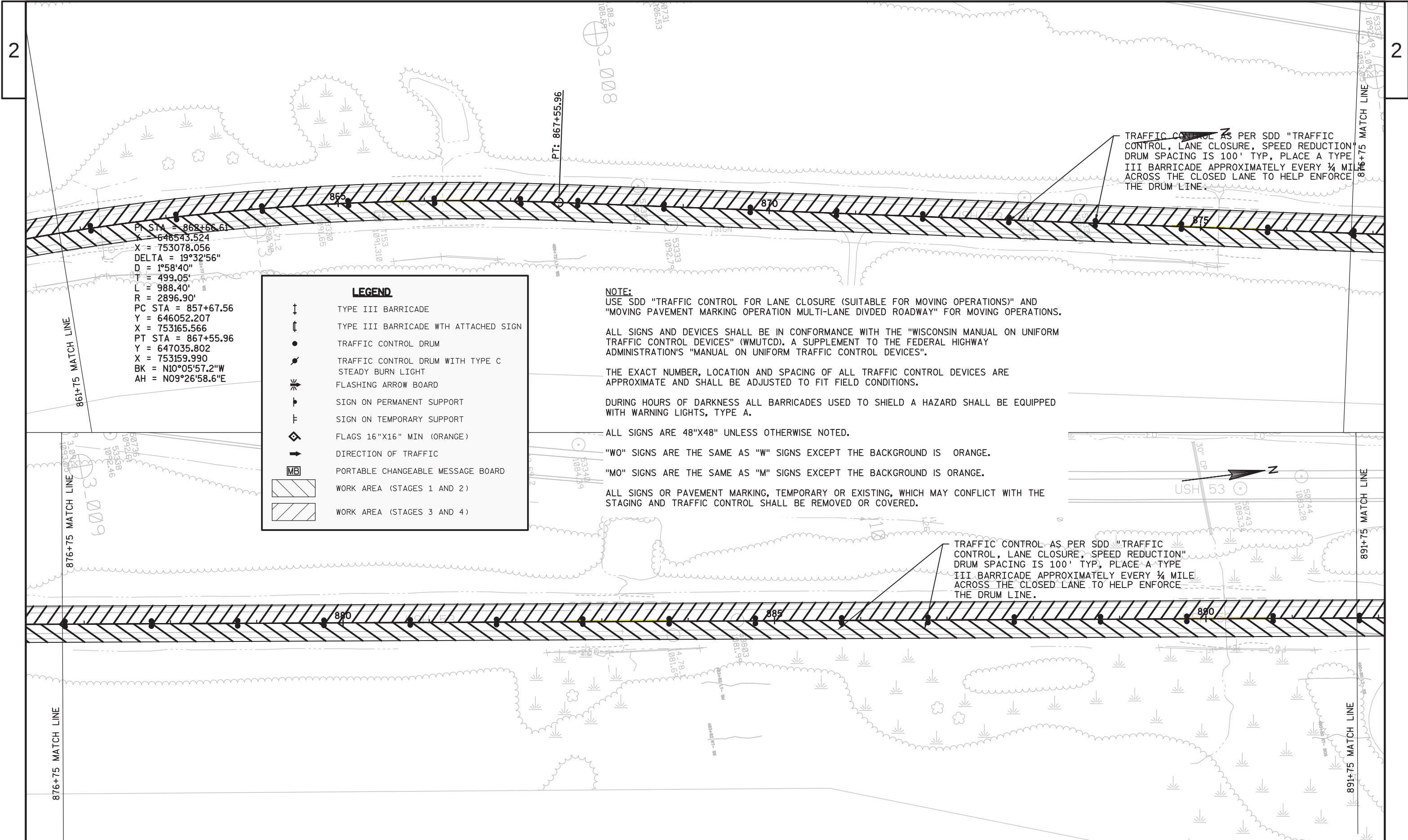
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PI STA = 868+66.61
X = 646543.524
Y = 753078.056
DELTA = 19°32'56"
D = 1°58'40"
T = 499.05'
L = 988.40'
R = 2896.90'
PC STA = 857+67.56
Y = 646052.207
X = 753165.566
PT STA = 867+55.96
Y = 647035.802
X = 753159.990
BK = N10°05'57.2"W
AH = N09°26'58.6"E

LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

FLASHING ARROW BOARD

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

FLAGS 16"X16" MIN (ORANGE)

DIRECTION OF TRAFFIC

PORTABLE CHANGEABLE MESSAGE BOARD

WORK AREA (STAGES 1 AND 2)

WORK AREA (STAGES 3 AND 4)

NOTE:
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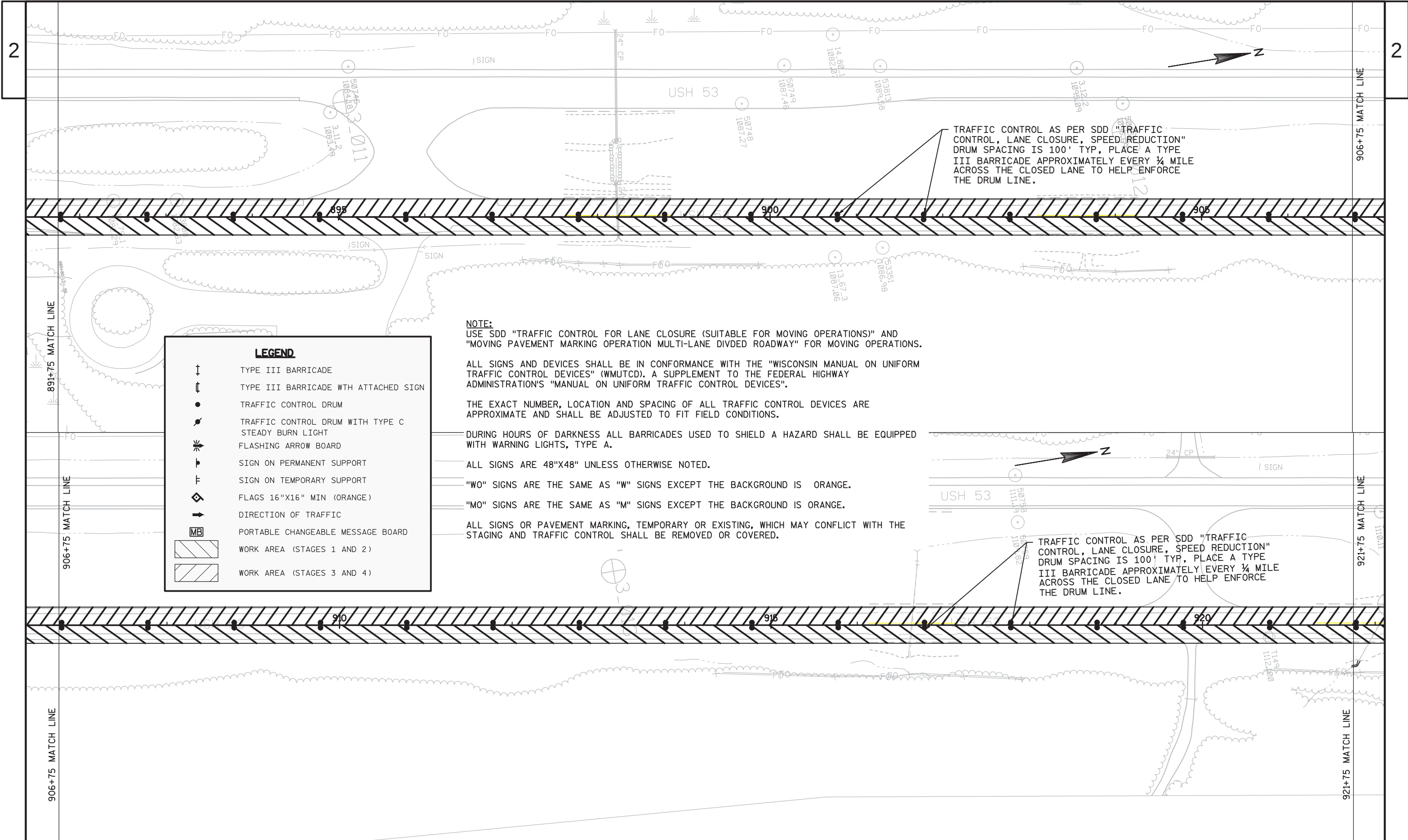
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LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WTH ATTACHED SIGN

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

FLASHING ARROW BOARD

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

FLAGS 16"X16" MIN (ORANGE)

DIRECTION OF TRAFFIC

PORTABLE CHANGEABLE MESSAGE BOARD

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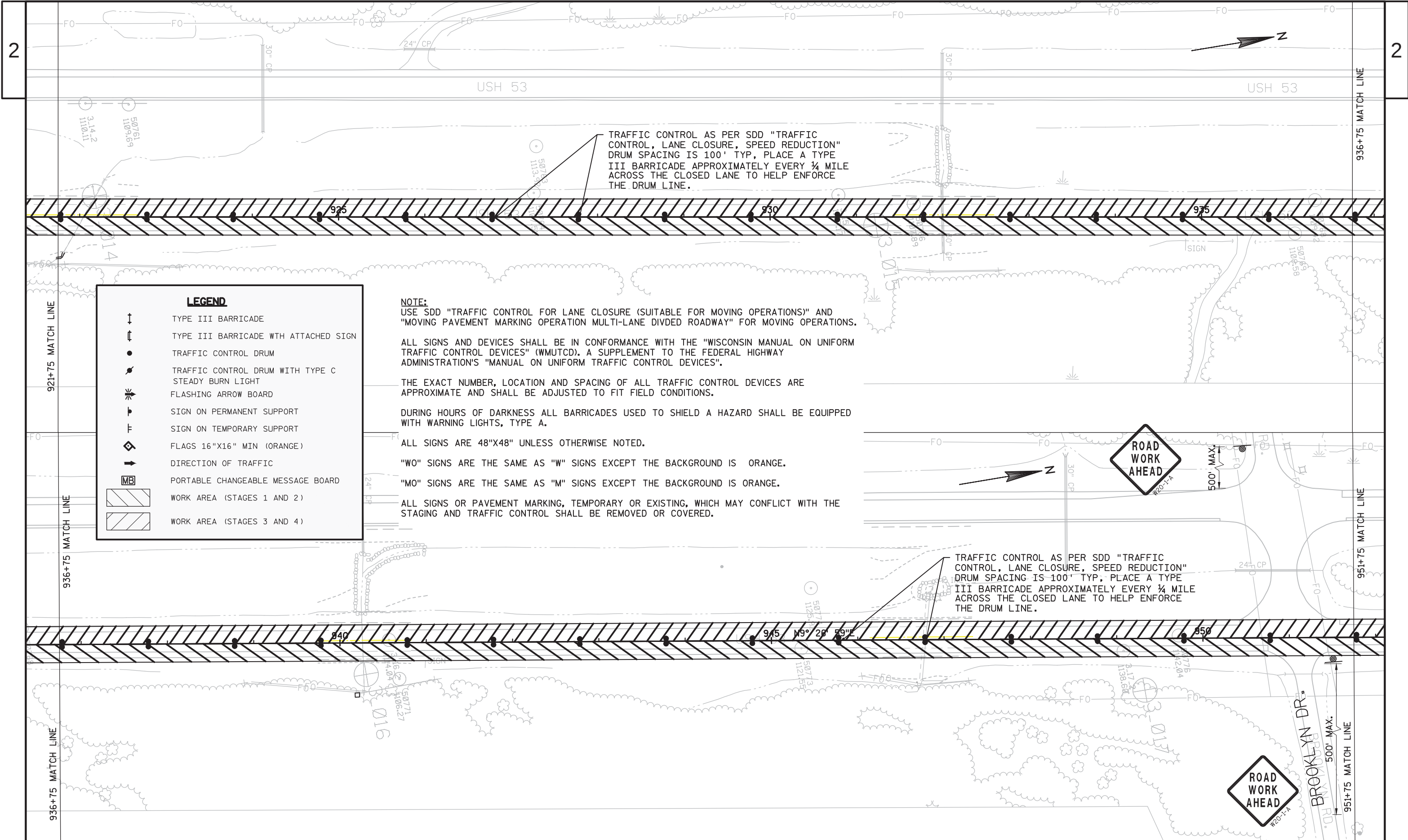
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LEGEND

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

FLASHING ARROW BOARD

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

FLAGS 16"X16" MIN (ORANGE)

DIRECTION OF TRAFFIC

PORTABLE CHANGEABLE MESSAGE BOARD

WORK AREA (STAGES 1 AND 2)

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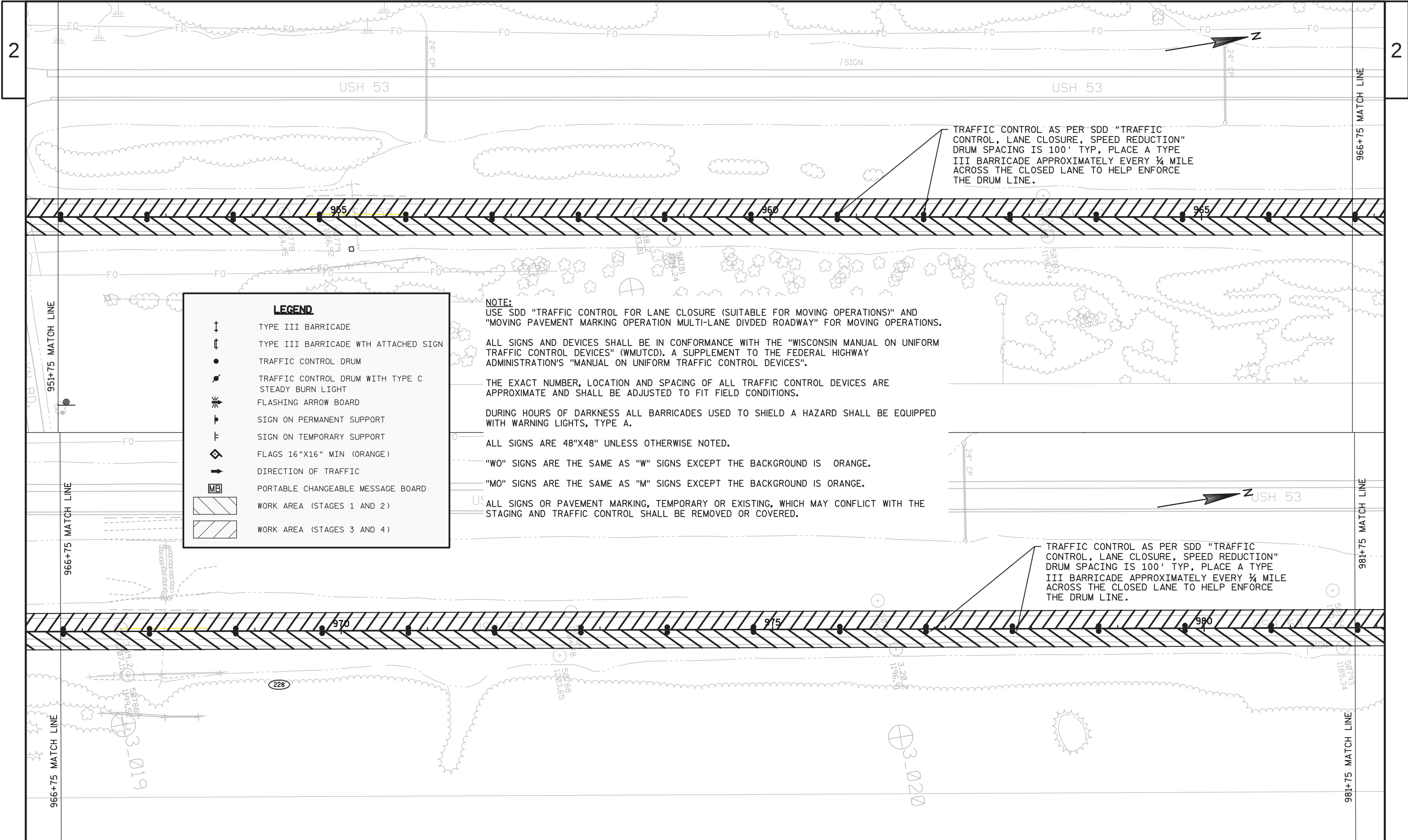
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↑

TYPE III BARRICADE

↑

TYPE III BARRICADE WITH ATTACHED SIGN

●

TRAFFIC CONTROL DRUM

⚡

TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT

⚡

FLASHING ARROW BOARD

↑

SIGN ON PERMANENT SUPPORT

↑

SIGN ON TEMPORARY SUPPORT

◇

FLAGS 16"X16" MIN (ORANGE)

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MB

PORTABLE CHANGEABLE MESSAGE BOARD

▨

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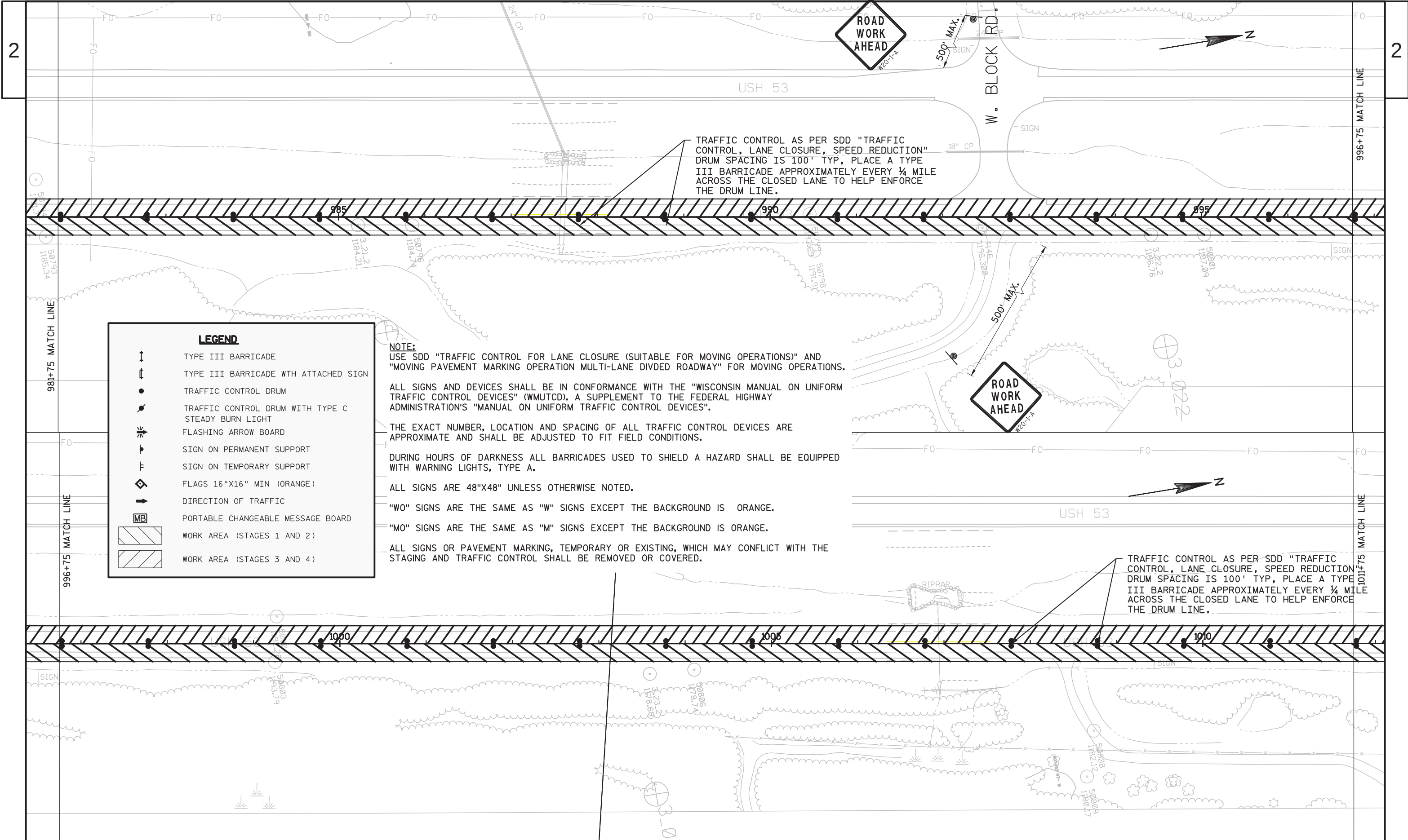
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TYPE III BARRICADE WITH ATTACHED SIGN

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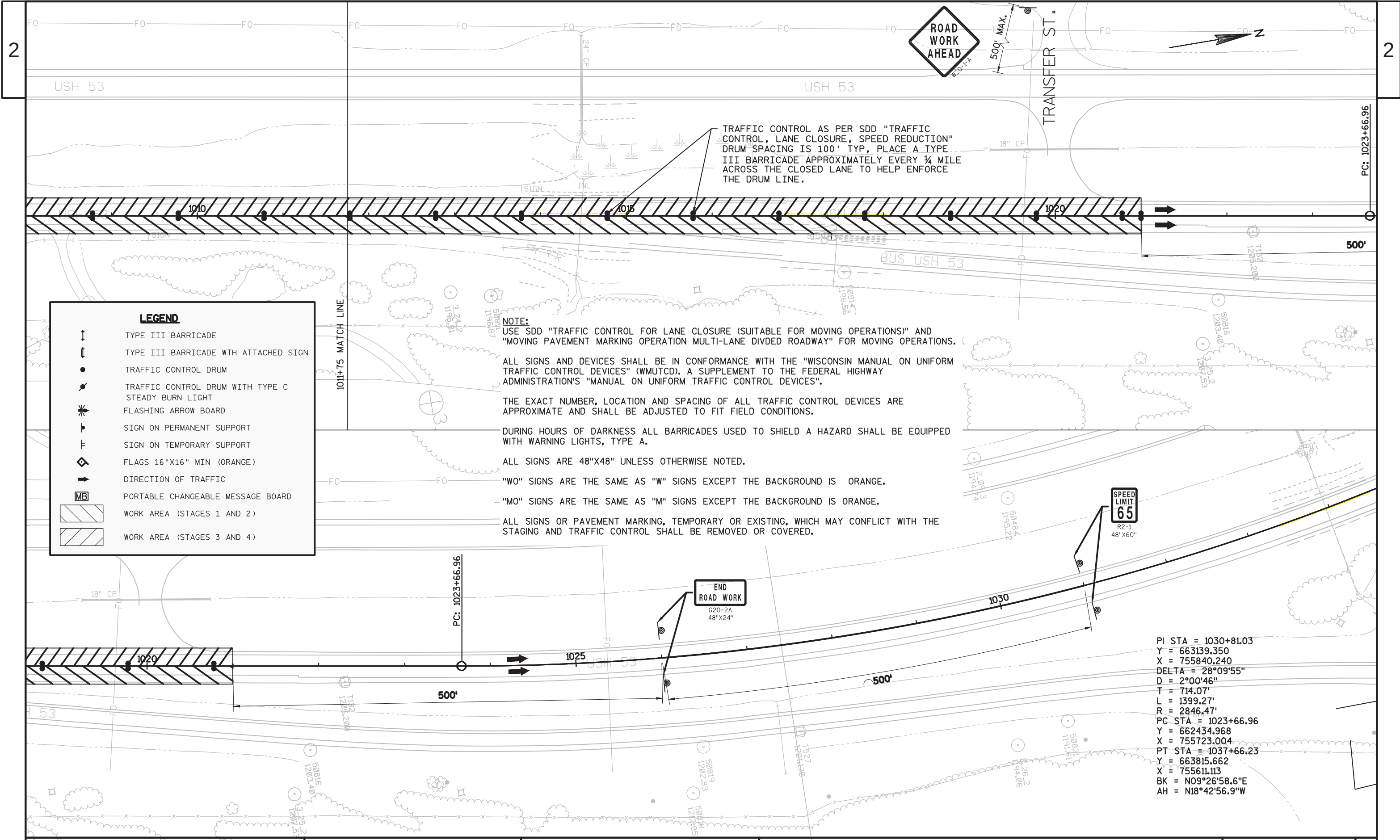
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- ➔ DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- ▨ WORK AREA (STAGES 1 AND 2)
- ▨ WORK AREA (STAGES 3 AND 4)

NOTE:
USE SDD "TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)" AND "MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVDED ROADWAY" FOR MOVING OPERATIONS.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE "WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (WMUTCD). A SUPPLEMENT TO THE FEDERAL HIGHWAY ADMINISTRATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

THE EXACT NUMBER, LOCATION AND SPACING OF ALL TRAFFIC CONTROL DEVICES ARE APPROXIMATE AND SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

DURING HOURS OF DARKNESS ALL BARRICADES USED TO SHIELD A HAZARD SHALL BE EQUIPPED WITH WARNING LIGHTS, TYPE A.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

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

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

ALL SIGNS OR PAVEMENT MARKING, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE STAGING AND TRAFFIC CONTROL SHALL BE REMOVED OR COVERED.

PI STA = 1030+81.03
Y = 663139.350
X = 755840.240
DELTA = 28°09'55"
D = 2°00'46"
T = 714.07'
L = 1399.27'
R = 2846.47'
PC STA = 1023+66.96
Y = 662434.968
X = 755723.004
PT STA = 1037+66.23
Y = 663815.662
X = 755611.113
BK = N09°26'58.6"E
AH = N18°42'56.9"W

Estimate Of Quantities

1198-08-70					
Line	Item	Item Description	Unit	Total	Qty
0010	204.0115	Removing Asphaltic Surface Butt Joints	SY	5,460.000	5,460.000
0020	204.0120	Removing Asphaltic Surface Milling	SY	270,350.000	270,350.000
0030	204.0180	Removing Delineators and Markers	EACH	171.000	171.000
0040	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 1198-08-70	LS	1.000	1.000
0050	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	582.000	582.000
0060	213.0100	Finishing Roadway (project) 01. 1198-08-70	EACH	1.000	1.000
0070	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,590.000	2,590.000
0080	305.0500	Shaping Shoulders	STA	1,194.000	1,194.000
0090	440.4410	Incentive IRI Ride	DOL	44,053.000	44,053.000
0100	455.0605	Tack Coat	GAL	24,661.000	24,661.000
0110	460.2000	Incentive Density HMA Pavement	DOL	22,402.000	22,402.000
0120	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	58,150.000	58,150.000
0130	460.6244	HMA Pavement 4 MT 58-34 S	TON	21,913.000	21,913.000
0140	460.6444	HMA Pavement 4 MT 58-34 H	TON	15,681.000	15,681.000
0150	465.0110	Asphaltic Surface Patching	TON	500.000	500.000
0160	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	64.000	64.000
0170	465.0400	Asphaltic Shoulder Rumble Strips	LF	116,300.000	116,300.000
0180	520.8000	Concrete Collars for Pipe	EACH	61.000	61.000
0190	520.8700	Cleaning Culvert Pipes	EACH	35.000	35.000
0200	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	8.000	8.000
0210	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	43.000	43.000
0220	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	11.000	11.000
0230	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	2.000	2.000
0240	524.0124	Culvert Pipe Salvaged 24-Inch	LF	88.000	88.000
0250	524.0130	Culvert Pipe Salvaged 30-Inch	LF	56.000	56.000
0260	524.0136	Culvert Pipe Salvaged 36-Inch	LF	16.000	16.000
0270	524.0148	Culvert Pipe Salvaged 48-Inch	LF	16.000	16.000
0280	524.0624	Apron Endwalls for Culvert Pipe Salvaged 24-Inch	EACH	2.000	2.000
0290	524.0648	Apron Endwalls for Culvert Pipe Salvaged 48-Inch	EACH	2.000	2.000
0300	606.0200	Riprap Medium	CY	18.000	18.000
0310	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1198-08-70	EACH	1.000	1.000
0320	619.1000	Mobilization	EACH	1.000	1.000
0330	625.0500	Salvaged Topsoil	SY	1,408.000	1,408.000
0340	628.1504	Silt Fence	LF	1,200.000	1,200.000
0350	628.1520	Silt Fence Maintenance	LF	1,200.000	1,200.000
0360	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000

Estimate Of Quantities

1198-08-70

Line	Item	Item Description	Unit	Total	Qty
0370	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0380	628.2004	Erosion Mat Class I Type B	SY	1,653.000	1,653.000
0390	629.0210	Fertilizer Type B	CWT	1.000	1.000
0400	630.0120	Seeding Mixture No. 20	LB	38.000	38.000
0410	630.0200	Seeding Temporary	LB	38.000	38.000
0420	633.0100	Delineator Posts Steel	EACH	171.000	171.000
0430	633.0500	Delineator Reflectors	EACH	171.000	171.000
0440	633.5200	Markers Culvert End	EACH	12.000	12.000
0450	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	1.000	1.000
0460	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	14.000	14.000
0470	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	97.000	97.000
0480	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	4.000	4.000
0490	637.2210	Signs Type II Reflective H	SF	1,186.640	1,186.640
0500	637.2230	Signs Type II Reflective F	SF	16.000	16.000
0510	638.2602	Removing Signs Type II	EACH	123.000	123.000
0520	638.3000	Removing Small Sign Supports	EACH	133.000	133.000
0530	642.5201	Field Office Type C	EACH	1.000	1.000
0540	643.0200.S	Traffic Control Surveillance and Maintenance (project) 01. 1198-08-70	DAY	45.000	45.000
0550	643.0300	Traffic Control Drums	DAY	17,498.000	17,498.000
0560	643.0420	Traffic Control Barricades Type III	DAY	3,094.000	3,094.000
0570	643.0705	Traffic Control Warning Lights Type A	DAY	90.000	90.000
0580	643.0715	Traffic Control Warning Lights Type C	DAY	1,260.000	1,260.000
0590	643.0800	Traffic Control Arrow Boards	DAY	180.000	180.000
0600	643.0900	Traffic Control Signs	DAY	1,412.000	1,412.000
0610	643.1051	Traffic Control Signs PCMS with Cellular Communications	DAY	52.000	52.000
0620	645.0120	Geotextile Type HR	SY	22.200	22.200
0630	646.0107.S	Pavement Marking Grooved Epoxy 4-Inch	LF	116,300.000	116,300.000
0640	646.0127.S	Pavement Marking Grooved Epoxy 8-Inch	LF	1,560.000	1,560.000
0650	646.0600	Removing Pavement Markings	LF	1,520.000	1,520.000
0660	646.0842.S	Pavement Marking Grooved Contrast Wet Reflective Epoxy 4-Inch	LF	17,638.000	17,638.000
0670	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	4.000	4.000
0680	647.0356	Pavement Marking Words Epoxy	EACH	3.000	3.000
0690	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	20.000	20.000
0700	649.0401	Temporary Pavement Marking Removable Contrast Tape 4-Inch	LF	2,400.000	2,400.000
0710	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	29,075.000	29,075.000
0720	650.8000	Construction Staking Resurfacing Reference	LF	58,150.000	58,150.000
0730	650.9910	Construction Staking Supplemental Control (project)	LS	1.000	1.000

Estimate Of Quantities

1198-08-70					
Line	Item	Item Description	Unit	Total	Qty
		01. 1198-08-70			
0740	690.0150	Sawing Asphalt	LF	432.000	432.000
0750	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	2,400.000	2,400.000
0760	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	990.000	990.000
0770	SPV.0105	Special Special 02. Temporary Water Diversion, Culvert #29 STA. 765+18	LS	1.000	1.000
0780	SPV.0105	Special Special 04. Temporary Water Diversion, Culvert #40 STA.890+15	LS	1.000	1.000
0790	SPV.0105	Special Special 01. Material Transfer Vehicle	LS	1.000	1.000
0800	SPV.0105	Special Special 03. Temporary Water Diversion, Culvert #34 STA.851+12	LS	1.000	1.000

204.0115 REMOVING.ASPHALTIC.SURFACE.BUTT.JOINTS								
CAT.	STA.	--	STA.	LENGTH	WIDTH	THICK	LOCATION	SY
----	-----	--	-----	-----	-----	-----	-----	-----
10	440+00.0	--	440+60.0	60	18	3.25	ML.LT.	120.00
10	440+00.0	--	440+60.0	60	18	3.25	ML.RT.	120.00
10	1020+90.0	--	1021+50.0	60	18	3.25	ML.LT.	120.00
10	1020+90.0	--	1021+50.0	60	18	3.25	ML.RT.	120.00
10	452+85.0	--	453+45.0	60	12	1.50	LT.SRD.	166.00
10	452+85.0	--	453+45.0	60	12	1.50	RT.SRD.	166.00
10	504+90.0	--	505+50.0	60	12	1.50	LT.SRD.	166.00
10	504+90.0	--	505+50.0	60	12	1.50	RT.SRD.	166.00
10	530+70.0	--	531+30.0	60	12	1.50	LT.SRD.	166.00
10	530+70.0	--	531+30.0	60	12	1.50	RT.SRD.	166.00
10	582+60.0	--	583+20.0	60	12	1.50	LT.SRD.	166.00
10	582+60.0	--	583+20.0	60	12	1.50	RT.SRD.	166.00
10	608+70.0	--	609+30.0	60	12	1.50	LT.SRD.	166.00
10	608+70.0	--	609+30.0	60	12	1.50	RT.SRD.	166.00
10	644+75.0	--	645+35.0	60	12	1.50	LT.SRD.	166.00
10	644+75.0	--	645+35.0	60	12	1.50	RT.SRD.	166.00
10	655+20.0	--	655+80.0	60	12	1.50	LT.SRD.	166.00
10	655+20.0	--	655+80.0	60	12	1.50	RT.SRD.	166.00
10	682+23.0	--	682+83.0	60	12	1.50	LT.SRD.	166.00
10	682+23.0	--	682+83.0	60	12	1.50	RT.SRD.	166.00
10	709+24.0	--	709+84.0	60	12	1.50	LT.SRD.	166.00
10	709+24.0	--	709+84.0	60	12	1.50	RT.SRD.	166.00
10	895+70.0	--	896+30.0	60	12	1.50	LT.SRD.	166.00
10	895+70.0	--	896+30.0	60	12	1.50	RT.SRD.	166.00
10	919+80.0	--	920+40.0	60	12	1.50	LT.SRD.	166.00
10	919+80.0	--	920+40.0	60	12	1.50	RT.SRD.	166.00
10	951+00.0	--	951+60.0	60	12	1.50	LT.SRD.	166.00
10	951+00.0	--	951+60.0	60	12	1.50	RT.SRD.	166.00
10	992+60.0	--	993+20.0	60	12	1.50	LT.SRD.	166.00
10	992+60.0	--	993+20.0	60	12	1.50	RT.SRD.	166.00
10	1013+00.0	--	1013+60.0	60	12	1.50	RT.SRD.	166.00
10	1013+00.0	--	1013+60.0	60	12	1.50	RT.SRD.	166.00
10	1020+00.0	--	1020+60.0	60	12	1.50	RT.SRD.	166.00
10	1020+00.0	--	1020+60.0	60	12	1.50	RT.SRD.	166.00
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	5,460.00

204.0120 REMOVING.ASPHALTIC.SURFACE.MILLING								
CAT.	STA.	--	STA.	LENGTH	WIDTH	THICK	LOCATION	SY
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10	440+00.0	--	633+83.3	19383.3	12	3.25	ML.LT.	25844
10	633+83.3	--	827+66.7	19383.4	12	3.25	ML.LT.	25845
10	827+66.7	--	1021+50.0	19383.3	12	3.25	ML.LT.	25844
10	440+00.0	--	633+83.3	19383.3	12	3.25	ML.RT.	25844
10	633+83.3	--	827+66.7	19383.4	12	3.25	ML.RT.	25845
10	827+66.7	--	1021+50.0	19383.3	12	3.25	ML.RT.	25844
10	440+00.0	--	633+83.3	19383.3	6	1.25	Shoulder.LT.	12922
10	633+83.3	--	827+66.7	19383.4	6	1.25	Shoulder.LT.	12922
10	827+66.7	--	1021+50.0	19383.3	6	1.25	Shoulder.LT.	12922
10	440+00.0	--	633+83.3	19383.3	8	1.25	Shoulder.RT.	17230
10	633+83.3	--	827+66.7	19383.4	8	1.25	Shoulder.RT.	17230
10	827+66.7	--	1021+50.0	19383.3	8	1.25	Shoulder.RT.	17230
10	47350	--	47500	150	6	3.25	LT.LT.TURN	638
10	47500	--	48000	500	12	3.25	LT.LT.TURN	6639
10	64100	--	64250	150	6	3.25	RT.RT.TURN	638
10	64250	--	64500	250	12	3.25	RT.RT.TURN	1826
10	64975	--	65125	150	6	3.25	LT.LT.TURN	638
10	65125	--	65575	450	12	3.25	LT.LT.TURN	5438
10	89100	--	89250	150	6	3.25	RT.RT.TURN	638
10	89250	--	89600	350	12	3.25	RT.RT.TURN	3393
10	45285	--	45345	60	12	1.50	LT.SRD.	166
10	45285	--	45345	60	12	1.50	RT.SRD.	166
10	50490	--	50550	60	12	1.50	LT.SRD.	166
10	50490	--	50550	60	12	1.50	RT.SRD.	166
10	53070	--	53130	60	12	1.50	LT.SRD.	166
10	53070	--	53130	60	12	1.50	RT.SRD.	166
10	58260	--	58320	60	12	1.50	LT.SRD.	166
10	58260	--	58320	60	12	1.50	RT.SRD.	166
10	60870	--	60930	60	12	1.50	LT.SRD.	166
10	60870	--	60930	60	12	1.50	RT.SRD.	166
10	64475	--	64535	60	12	1.50	LT.SRD.	166
10	64475	--	64535	60	12	1.50	RT.SRD.	166
10	65520	--	65580	60	12	1.50	LT.SRD.	166
10	65520	--	65580	60	12	1.50	RT.SRD.	166
10	68223	--	68283	60	12	1.50	LT.SRD.	166
10	68223	--	68283	60	12	1.50	RT.SRD.	166
10	70924	--	70984	60	12	1.50	LT.SRD.	166
10	70924	--	70984	60	12	1.50	RT.SRD.	166
10	89570	--	89630	60	12	1.50	LT.SRD.	166
10	89570	--	89630	60	12	1.50	RT.SRD.	166
10	91980	--	92040	60	12	1.50	LT.SRD.	166
10	91980	--	92040	60	12	1.50	RT.SRD.	166
10	95100	--	95160	60	12	1.50	LT.SRD.	166
10	95100	--	95160	60	12	1.50	RT.SRD.	166
10	99260	--	99320	60	12	1.50	LT.SRD.	166
10	99260	--	99320	60	12	1.50	RT.SRD.	166
10	101300	--	101360	60	12	1.50	RT.SRD.	166
10	101300	--	101360	60	12	1.50	RT.SRD.	166
10	102000	--	102060	60	12	1.50	RT.SRD.	166
10	102000	--	102060	60	12	1.50	RT.SRD.	166
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	270,350

211.0400	PREPARE.FOUNDATION.FOR.ASPHALTIC.SHOULDERS							
CAT.	STA.	--	STA.	.	.	.	LOCATION	STA
----	-----	--	-----	.	.	.	-----	-----
10	44000	--	63383	.	.	.	ML.RT.	194
10	63383	--	82766	.	.	.	ML.RT.	194
10	82766	--	102150	.	.	.	ML.RT.	194
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.	.	.	.	.	.	.	TOTAL==	582

305.0110	BASE.AGGREGATE.DENSE.3/4-INCH							
CAT.	STA.	--	STA.	LENGTH	WIDTH	THICK	LOCATION	TON.
----	-----	--	-----	-----	-----	-----	-----	-----
10	44000	--	63383	19383	3	1.25	ML.LT.	540
10	63383	--	82766	19383	3	1.25	ML.LT.	540
10	82766	--	102150	19384	3	1.25	ML.LT.	540
10	44000	--	63383	19383	1	1.25	ML.RT.	205
10	63383	--	82766	19383	1	1.25	ML.RT.	205
10	82766	--	102150	19384	1	1.25	ML.RT.	205
10	45285	--	45345	60	12	2	LT.SRD.	10
10	45285	--	45345	60	12	2	RT.SRD.	10
10	50490	--	50550	60	12	2	LT.SRD.	10
10	50490	--	50550	60	12	2	RT.SRD.	10
10	53070	--	53130	60	12	2	LT.SRD.	10
10	53070	--	53130	60	12	2	RT.SRD.	10
10	58260	--	58320	60	12	2	LT.SRD.	10
10	58260	--	58320	60	12	2	RT.SRD.	10
10	60870	--	60930	60	12	2	LT.SRD.	10
10	60870	--	60930	60	12	2	RT.SRD.	10
10	64475	--	64535	60	12	2	LT.SRD.	10
10	64475	--	64535	60	12	2	RT.SRD.	10
10	65520	--	65580	60	12	2	LT.SRD.	10
10	65520	--	65580	60	12	2	RT.SRD.	10
10	68223	--	68283	60	12	2	LT.SRD.	10
10	68223	--	68283	60	12	2	RT.SRD.	10
10	70924	--	70984	60	12	2	LT.SRD.	10
10	70924	--	70984	60	12	2	RT.SRD.	10
10	89570	--	89630	60	12	2	LT.SRD.	10
10	89570	--	89630	60	12	2	RT.SRD.	10
10	91980	--	92040	60	12	2	LT.SRD.	10
10	91980	--	92040	60	12	2	RT.SRD.	10
10	95100	--	95160	60	12	2	LT.SRD.	10
10	95100	--	95160	60	12	2	RT.SRD.	10
10	99260	--	99320	60	12	2	LT.SRD.	10
10	99260	--	99320	60	12	2	RT.SRD.	10
10	101300	--	101360	60	12	2	RT.SRD.	10
10	101300	--	101360	60	12	2	RT.SRD.	10
10	102000	--	102060	60	12	2	RT.SRD.	10
10	102000	--	102060	60	12	2	RT.SRD.	10
10	102000	--	102015	15	15	26	18 PE&FE	55
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	2590

305.0500	SHAPING.SHOULDERS							
CAT.	STA.	--	STA.	.	.	.	LOCATION	STA
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10	44000	--	63383	.	.	.	ML.LT.	194
10	63383	--	82766	.	.	.	ML.LT.	194
10	82766	--	102150	.	.	.	ML.LT.	194
10	44000	--	63383	.	.	.	ML.RT.	194
10	63383	--	82766	.	.	.	ML.RT.	194
10	82766	--	102150	.	.	.	ML.RT.	194
10	45285	--	45345	.	.	.	LT.SRD.	1
10	45285	--	45345	.	.	.	RT.SRD.	1
10	50490	--	50550	.	.	.	LT.SRD.	1
10	50490	--	50550	.	.	.	RT.SRD.	1
10	53070	--	53130	.	.	.	LT.SRD.	1
10	53070	--	53130	.	.	.	RT.SRD.	1
10	58260	--	58320	.	.	.	LT.SRD.	1
10	58260	--	58320	.	.	.	RT.SRD.	1
10	60870	--	60930	.	.	.	LT.SRD.	1
10	60870	--	60930	.	.	.	RT.SRD.	1
10	64475	--	64535	.	.	.	LT.SRD.	1
10	64475	--	64535	.	.	.	RT.SRD.	1
10	65520	--	65580	.	.	.	LT.SRD.	1
10	65520	--	65580	.	.	.	RT.SRD.	1
10	68223	--	68283	.	.	.	LT.SRD.	1
10	68223	--	68283	.	.	.	RT.SRD.	1
10	70924	--	70984	.	.	.	LT.SRD.	1
10	70924	--	70984	.	.	.	RT.SRD.	1
10	89570	--	89630	.	.	.	LT.SRD.	1
10	89570	--	89630	.	.	.	RT.SRD.	1
10	91980	--	92040	.	.	.	LT.SRD.	1
10	91980	--	92040	.	.	.	RT.SRD.	1
10	95100	--	95160	.	.	.	LT.SRD.	1
10	95100	--	95160	.	.	.	RT.SRD.	1
10	99260	--	99320	.	.	.	LT.SRD.	1
10	99260	--	99320	.	.	.	RT.SRD.	1
10	101300	--	101360	.	.	.	RT.SRD.	1
10	101300	--	101360	.	.	.	RT.SRD.	1
10	102000	--	102060	.	.	.	RT.SRD.	1
10	102000	--	102060	.	.	.	RT.SRD.	1
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	1,194

455.0605	TACK.COAT							
CAT.	STA.	--	STA.	LENGTH	WIDTH	# LAYER	LOCATION	GAL.
----	-----	--	-----	-----	-----	-----	-----	-----
10	440+00.0	--	633+83.0	19383	12	2	ML.LT.	3101
10	633+83.0	--	827+66.0	19383	12	2	ML.LT.	3101
10	827+66.0	--	1021+50.0	19384	12	2	ML.LT.	3101
10	440+00.0	--	633+83.0	19383	12	2	ML.RT.	3101
10	633+83.0	--	827+66.0	19383	12	2	ML.RT.	3101
10	827+66.0	--	1021+50.0	19384	12	2	ML.RT.	3101
10	440+00.0	--	633+83.0	19383	6	1	SHLDER.LT.	775
10	633+83.0	--	827+66.0	19383	6	1	SHLDER.LT.	775
10	827+66.0	--	1021+50.0	19384	6	1	SHLDER.LT.	775
10	440+00.0	--	633+83.0	19383	8	1	SHLDER.RT.	1034
10	633+83.0	--	827+66.0	19383	8	1	SHLDER.RT.	1034
10	827+66.0	--	1021+50.0	19384	8	1	SHLDER.RT.	1034
10	47350	--	47500	150	6	2	LT.LT.TURN	12
10	47500	--	48000	500	12	2	LT.LT.TURN	80
10	64100	--	64250	150	6	2	RT.RT.TURN	12
10	64250	--	64500	250	12	2	RT.RT.TURN	40
10	64975	--	65125	150	6	2	LT.LT.TURN	12
10	65125	--	65575	450	12	2	LT.LT.TURN	72
10	89100	--	89250	150	6	2	RT.RT.TURN	12
10	89250	--	89600	350	12	2	RT.RT.TURN	56
10	45285	--	45345	60	12	1	LT.SRD.	10
10	45285	--	45345	60	12	1	RT.SRD.	10
10	50490	--	50550	60	12	1	LT.SRD.	10
10	50490	--	50550	60	12	1	RT.SRD.	10
10	53070	--	53130	60	12	1	LT.SRD.	10
10	53070	--	53130	60	12	1	RT.SRD.	10
10	58260	--	58320	60	12	1	LT.SRD.	10
10	58260	--	58320	60	12	1	RT.SRD.	10
10	60870	--	60930	60	12	1	LT.SRD.	10
10	60870	--	60930	60	12	1	RT.SRD.	10
10	64475	--	64535	60	12	1	LT.SRD.	10
10	64475	--	64535	60	12	1	RT.SRD.	10
10	65520	--	65580	60	12	1	LT.SRD.	10
10	65520	--	65580	60	12	1	RT.SRD.	10
10	68223	--	68283	60	12	1	LT.SRD.	10
10	68223	--	68283	60	12	1	RT.SRD.	10
10	70924	--	70984	60	12	1	LT.SRD.	10
10	70924	--	70984	60	12	1	RT.SRD.	10
10	89570	--	89630	60	12	1	LT.SRD.	10
10	89570	--	89630	60	12	1	RT.SRD.	10
10	91980	--	92040	60	12	1	LT.SRD.	10
10	91980	--	92040	60	12	1	RT.SRD.	10
10	95100	--	95160	60	12	1	LT.SRD.	10
10	95100	--	95160	60	12	1	RT.SRD.	10
10	99260	--	99320	60	12	1	LT.SRD.	10
10	99260	--	99320	60	12	1	RT.SRD.	10
10	101300	--	101360	60	12	1	RT.SRD.	10
10	101300	--	101360	60	12	1	RT.SRD.	10
10	102000	--	102060	60	12	1	RT.SRD.	10
10	102000	--	102060	60	12	1	RT.SRD.	10
10	440+00.0	--	1021+50.0	25	10	1	19 Driways	32
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	24,661

460.4100.S	REHEATING.HMA.PAVEMENT.LONGITUDINAL.JOINTS							
CAT.	STA.	--	STA.	.	.	.	LOCATION	LF
----	-----	--	-----	.	.	.	-----	-----
10	440+00.0	--	1021+50.0	.	.	.	PROJECT	58,150.00
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	58,150.00

465.0120	ASPHALTIC.SURFACE.DRIVEWAYS.AND.FIELD.ENTRANCES							
CAT.	STA.	--	STA.	LENGTH	WIDTH	#DR.WY	LOCATION	TON
----	-----	--	-----	-----	-----	-----	-----	-----
10	440+00.0	--	440+15.0	15	18	13	LT.SHLR.	44
10	440+00.0	--	440+15.0	15	18	6	RT.SHLR.	20
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	64

460.6244	HMA PAVEMENT 4 MT 58-34 S							
CAT.	STA.	--	STA.	LENGTH	WIDTH	THICK	LOCATION	TON
----	-----	--	-----	-----	-----	-----	-----	-----
10	440+00.0	--	633+83.0	19383	12	1.50	ML.LT.	2171
10	633+83.0	--	827+66.0	19383	12	1.50	ML.LT.	2171
10	827+66.0	--	1021+50.0	19384	12	1.50	ML.LT.	2171
10	440+00.0	--	633+83.0	19383	12	1.50	ML.RT.	2171
10	633+83.0	--	827+66.0	19383	12	1.50	ML.RT.	2171
10	827+66.0	--	1021+50.0	19384	12	1.50	ML.RT.	2171
10	440+00.0	--	633+83.0	19383	6	1.50	SHLDER.LT.	1085
10	633+83.0	--	827+66.0	19383	6	1.50	SHLDER.LT.	1085
10	827+66.0	--	1021+50.0	19384	6	1.50	SHLDER.LT.	1085
10	440+00.0	--	633+83.0	19383	8	1.50	SHLDER.RT.	1809
10	633+83.0	--	827+66.0	19383	8	1.50	SHLDER.RT.	1809
10	827+66.0	--	1021+50.0	19384	8	1.50	SHLDER.RT.	1809
10	47350	--	47500	150	6	1.50	LT.LT.TURN	8
10	47500	--	48000	500	12	1.50	LT.LT.TURN	56
10	64100	--	64250	150	6	1.50	RT.RT.TURN	8
10	64250	--	64500	250	12	1.50	RT.RT.TURN	28
10	64975	--	65125	150	6	1.50	LT.LT.TURN	8
10	65125	--	65575	450	12	1.50	LT.LT.TURN	50
10	89100	--	89250	150	6	1.50	RT.RT.TURN	8
10	89250	--	89600	350	12	1.50	RT.RT.TURN	39
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	21913

465.0110	ASPHALTIC.SURFACE.PATCHING							
CAT.	STA.	--	STA.	.	.	.	LOCATION	TON
----	-----	--	-----	.	.	.	-----	-----
10	440+00.0	--	1021+50.0	.	.	.	PROJECT	500.00
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	500.00

465.0400	ASPHALTIC.SHOULDERS.RUMBLE.STRIP							
CAT.	STA.	--	STA.	.	.	.	LOCATION	LF
----	-----	--	-----	.	.	.	-----	-----
10	440+00.0	--	633+83.0	.	.	.	SHLDER.LT.	19,383.00
10	633+83.0	--	827+66.0	.	.	.	SHLDER.LT.	19,383.00
10	827+66.0	--	1021+50.0	.	.	.	SHLDER.LT.	19,384.00
10	440+00.0	--	633+83.0	.	.	.	SHLDER.RT.	19,383.00
10	633+83.0	--	827+66.0	.	.	.	SHLDER.RT.	19,383.00
10	827+66.0	--	1021+50.0	.	.	.	SHLDER.RT.	19,384.00
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	116,300.00

460.6444	HMA PAVEMENT 4 MT 58-34 H (UPER LAYER)							
CAT.	STA.	--	STA.	LENGTH	WIDTH	THICK	LOCATION	TON
----	-----	--	-----	-----	-----	-----	-----	-----
10	440+00.0	--	633+83.0	19383	12	1.75	ML.LT.	2533
10	633+83.0	--	827+66.0	19383	12	1.75	ML.LT.	2533
10	827+66.0	--	1021+50.0	19384	12	1.75	ML.LT.	2533
10	440+00.0	--	633+83.0	19383	12	1.75	ML.RT.	2533
10	633+83.0	--	827+66.0	19383	12	1.75	ML.RT.	2533
10	827+66.0	--	1021+50.0	19384	12	1.75	ML.RT.	2533
10	47350	--	47500	150	6	1.75	LT.LT.TURN	10
10	47500	--	48000	500	12	1.75	LT.LT.TURN	65
10	64100	--	64250	150	6	1.75	RT.RT.TURN	10
10	64250	--	64500	250	12	1.75	RT.RT.TURN	33
10	64975	--	65125	150	6	1.75	LT.LT.TURN	10
10	65125	--	65575	450	12	1.75	LT.LT.TURN	59
10	89100	--	89250	150	6	1.75	RT.RT.TURN	10
10	89250	--	89600	350	12	1.75	RT.RT.TURN	46
10	45285	--	45345	60	12	1.75	LT.SRD.	8
10	45285	--	45345	60	12	1.75	RT.SRD.	8
10	50490	--	50550	60	12	1.75	LT.SRD.	8
10	50490	--	50550	60	12	1.75	RT.SRD.	8
10	53070	--	53130	60	12	1.75	LT.SRD.	8
10	53070	--	53130	60	12	1.75	RT.SRD.	8
10	58260	--	58320	60	12	1.75	LT.SRD.	8
10	58260	--	58320	60	12	1.75	RT.SRD.	8
10	60870	--	60930	60	12	1.75	LT.SRD.	8
10	60870	--	60930	60	12	1.75	RT.SRD.	8
10	64475	--	64535	60	12	1.75	LT.SRD.	8
10	64475	--	64535	60	12	1.75	RT.SRD.	8
10	65520	--	65580	60	12	1.75	LT.SRD.	8
10	65520	--	65580	60	12	1.75	RT.SRD.	8
10	68223	--	68283	60	12	1.75	LT.SRD.	8
10	68223	--	68283	60	12	1.75	RT.SRD.	8
10	70924	--	70984	60	12	1.75	LT.SRD.	8
10	70924	--	70984	60	12	1.75	RT.SRD.	8
10	89570	--	89630	60	12	1.75	LT.SRD.	8
10	89570	--	89630	60	12	1.75	RT.SRD.	8
10	91980	--	92040	60	12	1.75	LT.SRD.	8
10	91980	--	92040	60	12	1.75	RT.SRD.	8
10	95100	--	95160	60	12	1.75	LT.SRD.	8
10	95100	--	95160	60	12	1.75	RT.SRD.	8
10	99260	--	99320	60	12	1.75	LT.SRD.	8
10	99260	--	99320	60	12	1.75	RT.SRD.	8
10	101300	--	101360	60	12	1.75	LT.SRD.	8
10	101300	--	101360	60	12	1.75	RT.SRD.	8
10	102000	--	102060	60	12	1.75	LT.SRD.	8
10	102000	--	102060	60	12	1.75	RT.SRD.	8
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	15,681

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					CULVERT PIPES																
USH 53NB					520.8000	520.8700	522.0124	524.0124	524.0130	524.0136	524.0148	522.1024	522.1030	522.1036	524.0624	524.0648	606.0200	633.5200	645.0120		
					CONCRETE	CLEANING	CULVERT PIPE	CULVERT PIPE	CULVERT PIPE	CULVERT PIPE	CULVERT PIPE	APRON ENDWALLS FOR			APRON ENDWALLS		RIPRAP	MARKER	GEOTEXTILE		
					COLLARS	CULVERT	REINF.CONC.	SALVAGED 24"	SALVAGED 30"	SALVAGED 36"	SALVAGED 48"	CULVERT PIPE REINF.			CULVERT PIPE SALVAGED		MEDIUM	CULVERT			
DIMENS.					FOR PIPE	PIPES	CLASS III					CONCRETE PIPE			CONC. 48"			END	TYPE HR		
No.	STATION	LOCATION	IN X FT	TYPE	EACH	EACH	24"(FT)	FEET	FEET	FEET	FEET	24"(EACH)	30"(EACH)	36"(EACH)	EACH	EACH	CY	EACH	SY		
1	0475+31	LT/RT	24X86	RCCP																	
2	0481+48	LT	24X96	RCCP	1	1						1									
3	0487+45	LT/RT	24X78	RCCP		1															
4	0505+62	LT	24X110	RCCP	1	1		8				1									
5	0508+32	LT/RT	24X104	RCCP	2	1		16				2									
6	0511+16	LT/RT	24X74	RCCP	2	1						2									
7	0518+03	LT/RT	24X80	RCCP	2	1						2					2				
8	0526+38	LT/RT	24X84	RCCP	2	1		16				2									
9	0537+00	LT/RT	24X70	RCCP	2	1						2									
10	0545+05	LT/RT	30X202	RCCP																	
11	0553+02	LT	24X76	RCCP	1	1									1						
12	0589+42	LT/RT	24X140	RCCP																	
13	0602+09	LT/RT	24X124	RCCP													3		3.7		
14	0615+12	RT	24X84	RCCP		1															
15	0622+84	RT	24X212	RCCP	1	1									1						
16	0630+23	LT/RT	36X134	RCCP		1															
17	0639+68	LT/RT	24X80	RCCP		1															
			SUBTOTAL=		14	13	0	40	0	0	0	12	0	0	2	0	3	2	3.7		

PROJECT NO: 1198-08-70	HWY: USH 53	COUNTY: WASHBURN	MISCELLANEOUS QUANTITIES	SHEET:	E
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					CULVERT PIPES															
USH 53NB					520.8000	520.8700	522.0124	524.0124	524.0130	524.0136	524.0148	522.1024	522.1030	522.1036	524.0624	524.0648	606.0200	633.5200	645.0120	
					CONCRETE	CLEANING	CULVERT PIPE	CULVERT PIPE	CULVERT PIPE	CULVERT PIPE	CULVERT PIPE	APRON ENDWALLS FOR			APRON ENDWALLS		RIPRAP	MARKER	GEOTEXTILE	
					COLLARS	CULVERT	REINF.CONC.	SALVAGED 24"	SALVAGED 30"	SALVAGED 36"	SALVAGED 48"	CULVERT PIPE REINF.			CULVERT PIPE SALVAGED		MEDIUM	CULVERT		
DIMENS.					FOR PIPE	PIPES	CLASS III					CONCRETE PIPE			CONC. 24"			END	TYPE HR	
No.	STATION	LOCATION	IN X FT	TYPE	EACH	EACH	24"(FT)	FEET	FEET	FEET	FEET	24"(EACH)	30"(EACH)	36"(EACH)	EACH	EACH	CY	EACH	SY	
38	0875+13	LT/RT	24X64	RCCP	2	1						2								
39	0883+15	LT/RT	24X60	RCCP	2	1						2								
40	0889+97	LT/RT	30X70	RCCP	2	1							2				3		3.7	
41	0898+15	LT/RT	24X64	RCCP	2	1						2						1		
42	0903+57	LT/RT	24X92	RCCP														1		
43	0916+56	RT	30X72	RCCP	1	1							1							
44	0921+97	LT/RT	30X96	RCCP	2				16				2							
45	0931+92	LT/RT	30X75	RCCP	2				16				2							
46	0940+18	LT/RT	24X88	RCCP	2			16				2								
47	0945+17	LT/RT	24X68	RCCP																
48	0946+68	LT/RT	30X100	RCCP	2	1			8				2							
49	0955+11	LT/RT	30X66	RCCP	1	1							1							
50	0967+87	LT	24X96	RCCP	1	1						1								
51	0987+52	RT	24X106	RCCP	1			8				1								
52	1006+86	LT/RT	24X90	RCCP	2	1		8				2					3		3.7	
53	1014+39	LT/RT	24X116	RCCP	1	1														
SUBTOTAL=					23	10	0	32	40	0	0	12	10	0	0	0	6	2	7.4	
TOTALS (1198-08-70 NB USH 53)					61	35	8	88	56	16	16	43	11	2	2	2	18	12	22.2	
NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEEREER ESTIMATE CATEGORY 0010, UNLESS OTHERWISE NOTED.																				

						EROSION CONTROL						
PROJECT # 1198-08-70 (NB) USH 53						625.0500	628.1504	628.1520	628.2004	629.0210	630.0120	630.0200
						SALVAGED	SILT FENCE	SILT FENCE	EROSION MAT	FERTILIZER	SEEDING	SEEDING
						TOP SOIL		MAINTENANCE	CLASS I	TYPE B	MIXTURE	TEMORARY
	USH 53NB								TYPE B		No.20	
	STATION	LOCATION				SY	LF	LF	SY	CWT	LB	LB
1	0475+31	LT/RT	24X86	RCCP		0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0481+48	LT	24X96	RCCP		10.00	20.00	20.00	10.00	0.01	0.27	0.27
3	0487+45	LT/RT	24X78	RCCP		0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0505+62	LT	24X110	RCCP		41.00	20.00	20.00	52.00	0.03	1.10	1.10
5	0508+32	LT/RT	24X104	RCCP		82.00	40.00	40.00	104.00	0.06	2.21	2.21
6	0511+16	LT/RT	24X74	RCCP		20.00	40.00	40.00	20.00	0.01	0.54	0.54
7	0518+03	LT/RT	24X80	RCCP		20.00	40.00	40.00	20.00	0.01	0.54	0.54
8	0526+38	LT/RT	24X84	RCCP		82.00	40.00	40.00	104.00	0.06	2.21	2.21
9	0537+00	LT/RT	24X70	RCCP		20.00	40.00	40.00	20.00	0.01	0.54	0.54
10	0545+05	LT/RT	30X202	RCCP		0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0553+02	LT	24X76	RCCP		10.00	20.00	20.00	10.00	0.01	0.27	0.27
12	0589+42	LT/RT	24X140	RCCP		0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0602+09	LT/RT	24X124	RCCP		0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0615+12	RT	24X84	RCCP		0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0622+84	RT	24X212	RCCP		10.00	20.00	20.00	10.00	0.01	0.27	0.27
16	0630+23	LT/RT	36X134	RCCP		0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0639+68	LT/RT	24X80	RCCP		0.00	0.00	0.00	0.00	0.00	0.00	0.00
			SUBTOTAL=			295.00	280.00	280.00	350.00	0.20	7.96	7.96

						EROSION CONTROL						
PROJECT # 1198-08-70 (NB) USH 53						625.0500	628.1504	628.1520	628.2004	629.0210	630.0120	630.0200
						SALVAGED	SILT FENCE	SILT FENCE	EROSION MAT	FERTILIZER	SEEDING	SEEDING
						TOP SOIL		MAINTENANCE	CLASS I	TYPE B	MIXTURE	TEMORARY
	USH 53NB								TYPE B		No.20	
	STATION	LOCATION				SY	LF	LF	SY	CWT	LB	LB
18	0656+17		24X164	RCCP		0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0689+31	RT	24X94	RCCP		10.00	20.00	20.00	10.00	0.01	0.27	0.27
20	0704+62					0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0708+55	LT/RT	24X146	RCCP		0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0711+28	LT/RT	24X58	RCCP		20.00	40.00	40.00	20.00	0.01	0.54	0.54
23	0715+25	LT/RT	42X72			0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0721+15	LT/RT	24X90	RCCP		10.00	20.00	20.00	10.00	0.01	0.27	0.27
25	0726+28	LT/RT	24X96	RCCP		20.00	40.00	40.00	20.00	0.01	0.54	0.54
26	0735+75	RT	30X120	RCCP		81.11	20.00	20.00	103.33	0.07	2.19	2.19
27	0739+74	RT	24X160	RCCP		10.00	20.00	20.00	10.00	0.01	0.27	0.27
28	0750+62	LT/RT	24X130	RCCP		0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0765+18	LT/RT	48X64	RCCP		126.67	40.00	40.00	148.89	0.09	3.42	3.42
30	0783+13	LT/RT	24X100	RCCP		82.22	40.00	40.00	104.44	0.07	2.22	2.22
31	0803+06	LT/RT	24X64	RCCP		51.00	40.00	40.00	62.11	0.03	1.38	1.38
32	0826+03	LT/RT	24X54	RCCP		20.00	40.00	40.00	20.00	0.01	0.54	0.54
33	0843+65	LT/RT	24X68	RCCP		0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	0851+29	LT/RT	36X64	RCCP		100.00	40.00	40.00	122.22	0.08	2.70	2.70
35	0857+19	LT/RT	24X66	RCCP		20.00	40.00	40.00	20.00	0.01	0.54	0.54
36	0862+15	LT/RT	24X76	RCCP		20.00	40.00	40.00	20.00	0.01	0.54	0.54
37	0866+13	LT/RT	24X66	RCCP		20.00	40.00	40.00	20.00	0.01	0.54	0.54
				SUBTOTAL=		591.00	480.00	480.00	691.00	0.44	15.96	15.96

618.0100	MAINTENANCE.AND.REPAIR.OF.HAUL.ROADS.(PROJECT)							
CAT.	STA.	--	STA.	.	.	.	LOCATION	EACH
----	-----	--	-----	.	.	.	-----	-----
10	440+00.0	--	1021+50.0	.	.	.	PROJECT	1.00
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	1.00

619.1000	MOBILIZATION							
CAT.	STA.	--	STA.	.	.	.	LOCATION	EACH
----	-----	--	-----	.	.	.	-----	-----
10	440+00.0	--	1021+50.0	.	.	.	PROJECT	1.00
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	1.00

628.1905	MOBILIZATIONS.EROSION.CONTROL							
CAT.	STA.	--	STA.	.	.	.	LOCATION	EACH
----	-----	--	-----	.	.	.	-----	-----
10	440+00.0	--	1021+50.0	.	.	.	PROJECT	1.00
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	1.00

628.1910	MOBILIZATIONS.EMERGENCY.EROSION.CONTROL							
CAT.	STA.	--	STA.	.	.	.	LOCATION	EACH
----	-----	--	-----	.	.	.	-----	-----
10	440+00.0	--	1021+50.0	.	.	.	PROJECT	1.00
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	1.00

3

PERMANENT SIGNING (1198-08-70)																	
SIGN NUMBER	STATION	LOCATION	SIGN CODE	MESSAGE	SIGN SIZE WxH (INCH)		637.2210 SIGN TYPE II RELFECTIV E H (SF)	637.2230 SIGN TYPE II RELFECTI VE F (SF)	638.2602 REMOVING SIGN TYPE (II) (EACH)	638.3000 REMOVING SMALL SIGN SUPORT TYPE (II) (EACH)		634.0612 POSTS WOOD 4X6 -INCH X 12FT (EACH)	634.0614 POSTS WOOD 4X6 -INCH X 14FT (EACH)	634.0616 POSTS WOOD 4X6 -INCH X 16FT (EACH)	634.0618 POSTS WOOD 4X6 -INCH X 18FT (EACH)	COMMENTS	
102	443+50	Right	D1-1	Crossroad Name:WHALEN Lake Rd.	132	21	19.25		1	2		0	0	2	0	REPLACE M1-94, 114"X21"	
103	451+42	Median	R5-1A	Wrong Way	42	30	8.75		1	1		0	0	1	0		
104	451+95	Median	R5-1	Do Not Enter	36	36	9.00		1	1		0	0	1	0		
105	453+53	Right	R1-1	Stop	36	36	7.46		1	1		0	0	1	0		
106	453+53	Right	R6-3A	Divided Highway Crossing Sign and Intersection	30	24	5.00		0	0		0	0	0	0	REPLACE R6-3, 30'X24"	
107	454+06	Right	R6-1-L	One Way LEFT Arrow	36	12	3.00		1	1		0	0	0	0	REPLACE R6-2-L, 30'X24"	
108	454+06	Right	R6-1-R	One Way RIGHT Arrow	36	12	3.00		0	0		0	0	0	0	REPLACE R6-2-R, 30'X24"	
109	470+43	Right	D1-1	Crossroad Name: Barrett Rd.	102	21	14.88		1	2		0	0	2	0	REPLACE M1-94, 78"X21"	
110	476+76	Left	R3-20-L	Left Turn Lane With Down Right Arrow	24	36	6.00		1	1		0	0	1	0	REPLACE R3-55-L, 36"X48"	
111	477+29	Median	R5-1A	Wrong Way	42	30	8.75		1	1		0	0	1	0		
112	477+82	Median	R5-1	Do Not Enter	36	36	9.00		1	1		0	0	1	0		
113	480+46	Right	R6-2-L	One Way LEFT Arrow	24	30	5.00		1	1		0	0	1	0		
114	492+60	Right	D10-3	Milepost Marker (3 Digit):175	12	48	4.00		1	1		0	1	0	0		
115	495+77	Right	D1-1	Crossroad Name:Schnagel Rd.	102	21	14.88		1	2		0	0	2	0	REPLACE M1-94, 84"X21"	
116	503+69	Left	R5-1A	Wrong Way	42	30	8.75		1	1		0	0	1	0		
117	504+22	Left	R1-1	Stop	36	36	7.46		1	1		0	0	1	0		
118	504+22	Left	R5-1	Do Not Enter	36	36	9.00		1	1		0	0	1	0		
119	504+22	Left	R6-1-R	One Way RIGHT Arrow	36	12	3.00		1	0		0	0	0	0	REPLACE R6-2-L, 30'X24"	
120	505+28	Left	R6-1-L	One Way LEFT Arrow	36	12	3.00		0	0		0	0	0	0	REPLACE R6-2-R, 30'X24"	
121	506+33	Right	R1-1	Stop	36	36	7.46		1	1		0	0	1	0		
122	506+33	Right	R6-1-L	One Way LEFT Arrow	36	12	3.00		1	1		0	0	0	0	REPLACE R6-2-L, 30'X24"	
123	506+33	Right	R6-1-R	One Way RIGHT Arrow	36	12	3.00		0	0		0	0	0	0	REPLACE R6-2-R, 30'X24"	
124	506+33	Right	R6-3(RM)	Divided Highway Crossing Sign and Intersection	30	24	5.00		0	0		0	0	0	0	REMOVE R6-3	
125	507+92	Right	J4-1(RM)	Reassurance Assembly :NORTH USH 53(REMOVE)	36	51	0		1	1		0	0	0	0	REMOVEJ41-1	
126	510+56	Left	R6-2-R	One Way RIGHT Arrow	24	30	5.00		1	1		0	1	0	0		
127	529+56	Left	R5-1A	Wrong Way	42	30	8.75		1	1		0	0	1	0		
128	530+09	Left	R5-1	Do Not Enter	36	36	9.00		1	1		0	0	1	0		
129	530+62	Left	R1-1	Stop	36	36	7.46		1	1		0	1	0	0		
130	530+62	Left	R6-1-L	One Way LEFT Arrow	36	12	3.00		1	1		0	0	0	0	REPLACE R6-2-L, 30'X24"	
131	530+62	Left	R6-1-R	One Way RIGHT Arrow	36	12	3.00		0	0		0	0	0	0	REPLACE R6-2-R, 30'X24"	
132	532+20	Right	R6-2-L	One Way LEFT Arrow	24	30	5.00		1	1		0	0	1	0		
133	545+40	Right	D10-3	Milepost Marker (3 Digit):176	12	48	4.00		1	1		0	1	0	0		
134	564+94	Left	R6-2-R	One Way RIGHT Arrow	24	30	5.00		1	1		0	0	1	0		
135	573+39	Right	M1-94	Crossroad Name: Oak Ridge Dr.	114	21	16.63		1	2		0	0	2	0		
136	581+31	Left	R5-1A	Wrong Way	42	30	8.75		1	1		0	0	1	0		
137	581+84	Left	R5-1	Do Not Enter	36	36	9.00		1	1		0	0	1	0		
138	582+36	Left	R1-1	Stop	36	36	7.46		1	1		0	0	1	0		
139	582+36	Left	R6-1-L	One Way LEFT Arrow	36	12	3.00		1	1		0	0	0	0	REPLACE R6-2-R, 30'X24"	
139-1	582+36	Left	R6-1-R	One Way RIGHT Arrow	36	12	3.00		0	0		0	0	0	0	ADD R6-1-L	
SUBTOTAL=							265.68	0.00	32	34		0	4	26	0		

PROJECT NO: 1198-08-70

HWY: USH 53

COUNTY: WASHBURN

MISCELLANEOUS QUANTITIES

SHEET:

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FILE NAME : N:\PDS\...\030200_mq.pptx

PLOT DATE : June 14, 1911

PLOT BY : A.R.H.

PLOT NAME :

PLOT SCALE : 1:1

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PERMANENT SIGNING (1198-08-70) (CONTINUED)

SIGN NUMBER	STATION	LOCATION	SIGN CODE	MESSAGE	SIGN SIZE WxH (INCH)		637.2210 SIGN TYPE II RELFECTIV E H (SF)	637.2230 SIGN TYPE II RELFECTI VE F (SF)	638.2602 REMOVING SIGN TYPE (II) (EACH)	638.3000 REMOVING SMALL SIGN SUPORT TYPE (II) (EACH)		634.0612 POSTS WOOD 4X6 -INCH X 12FT (EACH)	634.0614 POSTS WOOD 4X6 -INCH X 14FT (EACH)	634.0616 POSTS WOOD 4X6 -INCH X 16FT (EACH)	634.0618 POSTS WOOD 4X6 -INCH X 18FT (EACH)	COMMENTS	
140	583+95	Right	R6-2-L	One Way LEFT Arrow	24	30	5.00		1	1		0	0	1	0		
141	584+48	Right	I-55-56	Adopt-A-Highway:	30	36	7.50		1	1		0	0	1	0		
142	598+73	Right	D10-3	Milepost Marker (3 Digit):177	12	48	4.00		1	1		0	1	0	0		
143	607+71	Left	R5-1A	Wrong Way (REMOVE)	42	30	0.00		1	1		0	0	0	0	REMOVE R5-1A	
144	608+24	Left	R5-1	Do Not Enter (REMOVE)	36	36	0.00		1	1		0	0	0	0	REMOVE R5-1	
145	620+38	Right	W6-53	Cross Traffic - Next 45 Miles (REMOVE)	144	48	0.00		1	2		0	0	0	0	REMOVE W6-53	
146	634+11	Median	R5-1A	Wrong Way (REMOVE)	42	30	0.00		1	1		0	0	0	0	REMOVE R5-1A	
147	634+64	Median	R5-1	Do Not Enter (REMOVED)	36	36	0.00		1	1		0	0	0	0	REMOVE R5-1	
148	636+75	Right	J1-1	Junction or End Assembly: JCT	36	57	14.25		1	1		0	0	1	0		
149	640+44	Right	D1-1	One Destination (Arrow): Lampson (REMOVE)	84	21	0		1	2		0	0	0	0	REMOVE D1-1	
150	643+08	Median	R5-1A	Wrong Way	42	30	8.75		1	1		0	0	1	0		
151	643+61	Median	R5-1	Do Not Enter	36	36	9.00		1	1		0	0	1	0		
152	644+67	Median	R1-2	Yield	48	42	7.01		1	1		0	0	1	0		
152-1	644+64	Median	R6-1L	One Way LEFT Arrow(Add)	36	12	3.00		0	0		0	0	0	0	ADD R6-1L	
152-1	644+64	Median	R6-1R	One Way RIGHT Arrow(Add)	36	12	3.00		0	0		0	0	0	0	ADD R6-1R	
153	645+20	Right	J13-1	Directional without Cardinal (1Headed Route Panel)	36	66	16.50		1	1		0	0	1	0		
154	645+72	Right	J3-3	Directional Assembly (3 Headed Panel)	108	81	60.75		1	2		0	0	2	0		
155	645+72	Right	R1-1	Stop	36	36	7.46		1	1		0	0	1	0		
156	645+72	Right	R6-1-L	One Way LEFT Arrow	36	12	3.00		1	1		0	0	0	0	REPLACE R6-2-L, 30'X24"	
157	645+72	Right	R6-1-R	One Way RIGHT Arrow	36	12	3.00		0	0		0	0	0	0	REPLACE R6-2-R, 30'X24"	
158	645+72	Right	R6-3-A	Divided Highway Crossing T Intersection	30	24	5.00		0	0		0	0	0	0		
159	647+84	Right	J2-2	Route Turn Assembly (2 Headed Route Panel)	72	81	40.50		1	2		0	0	2	0		
160	651+53	Right	D10-3	Milepost Marker (3 Digit):178	12	48	4.00		1	1		0	0	1	0		
161	653+64	Median	R5-1	Do Not Enter	36	36	9.00		1	1		0	0	1	0		
162	653+64	Median	R5-1A	Wrong Way	42	30	8.75		1	1		0	0	1	0		
163	655+23	Median	R1-2	Yield	48	42	7.01		1	1		0	0	1	0		
163-1	655+23	Median	R6-1L	One Way LEFT Arrow (Add)	36	12	3.00		0	0		0	0	0	0	ADD R6-1L	
164	655+76	Right	J3-1	Directional Assembly (1 Headed Route Panel)	36	84	21.00		1	1		0	0	1	0	REPLACE 36"X81" WITH 36"X84"	
165	656+28	Right	J3-1	Directional Assemb.(1 Headed Route Panel)(REMOVE	36	81	0.00		1	1		0	0	0	0	REMOVE J3-1	
166	656+28	Right	R6-2-L	One Way LEFT Arrow	24	30	5.00		1	1		0	0	1	0	REMOVE r6-2-1	
167	658+40	Right	J4-1	Reassurance Assembly: NORTH USH 53	36	54	13.50		1	1		0	0	1	0	REPLACE 36"X51" WITH 36"X54"	
168	663+15	Right	R2-1	Speed Limit 65 MPH	48	60	20.00		1	1		0	0	1	0	REPLACE 36"X48" WITH 48"X60"	
169	673+71	Right	D1-1	Crossroad Name: Birchwood Dr.	96	30	20.00		1	2		0	0	2	0	REPLACE M1-94 WITH D1-1	
170	680+57	Median	R5-1A	Wrong Way	42	30	8.75		1	1		0	0	1	0		
171	681+63	Median	R5-1	Do Not Enter	36	36	9.00		1	1		0	0	1	0		
172	682+16	Median	R1-1	Stop	36	36	7.46		1	1		0	0	1	0		
173	682+16	Median	R6-1-L	One Way LEFT Arrow	36	12	3.00		1	0		0	0	0	0	REPLACE R6-2-L, 30'X24"	
174	682+68	Median	R6-1-R	One Way RIGHT Arrow	36	12	3.00		1	0		0	0	0	0	REPLACE R6-2-R, 30'X24"	
SUBTOTAL=							340.19	0.00	33	36		0	1	25	0		

PROJECT NO: 1198-08-70

HWY: USH 53

COUNTY: WASHBURN

MISCELLANEOUS QUANTITIES

SHEET:

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PERMANENT SIGNING (1198-08-70) (CONTINUED)

SIGN NUMBER	STATION	LOCATION	SIGN CODE	MESSAGE	SIGN SIZE WxH (INCH)		637.2210 SIGN TYPE II REL F E H (SF)	637.2230 SIGN TYPE II REL F E H (SF)	638.2602 REMOVING SIGN TYPE (II) (EACH)	638.3000 REMOVING SMALL SIGN SUPPORT TYPE (II) (EACH)		634.0612 POSTS WOOD 4X6 -INCH X 12FT (EACH)	634.0614 POSTS WOOD 4X6 -INCH X 14FT (EACH)	634.0616 POSTS WOOD 4X6 -INCH X 16FT (EACH)	634.0618 POSTS WOOD 4X6 -INCH X 18FT (EACH)	COMMENTS	
175	683+74	Right	R1-1	Stop	36	36	7.46		1	1		0	0	1	0		
176	683+74	Right	R6-1-L	One Way LEFT Arrow	36	12	3.00		1	0		0	0	0	0	REPLACE R6-2-L, 30'X24"	
177	683+74	Right	R6-1-R	One Way RIGHT Arrow	36	12	3.00		1	0		0	0	0	0	REPLACE R6-2-R, 30'X24"	
178	683+74	Right	R6-3-A	Divided Highway Crossing T Intersection	30	24	5.00		1	1		0	0	0	0		
179	689+55	Median	R5-1A	Wrong Way (Remove)	42	30	0.00		1	1		0	0	0	0	REMOVE R5-1A	
180	690+60	Median	R5-1	Do Not Enter (Remove)	36	36	0.00		1	1		0	0	0	0	REMOVE R5-1	
181	700+11	Right	D1-1	Crossroad Name:Palmer Dr.	78	30	16.25		1	2		0	0	2	0	REPLACE M1-94	
182	704+86	Right	D10-3	Milepost Marker (3 Digit):179	12	48	4.00		1	1		0	1	0	0		
183	708+03	Median	R5-1A	Wrong Way	42	30	8.75		1	1		0	0	1	0		
184	708+56	Median	R5-1	Do Not Enter	36	36	9.00		1	1		0	0	1	0		
185	709+08	Median	R1-1	Stop	36	36	7.46		1	1		0	0	1	0		
186	709+08	Median	R6-1-L	One Way LEFT Arrow	36	12	3.00		1	1		0	0	0	0	REPLACE R6-2-L, 30'X24"	
187	709+08	Median	R6-1-R	One Way RIGHT Arrow	36	12	3.00		0	0		0	0	0	0	REPLACE R6-2-R, 30'X24"	
188	710+67	Right	R1-1	Stop	36	36	7.46		1	1		0	0	1	0		
189	710+67	Right	R6-1-L	One Way LEFT Arrow	36	12	3.00		1	1		0	0	0	0	REPLACE R6-2-L, 30'X24"	
190	710+67	Right	R6-1-R	One Way RIGHT Arrow	36	12	3.00		0	0		0	0	0	0	REPLACE R6-2-R, 30'X24"	
191	710+67	Right	R6-3	Divided Highway Crossing Sign and Intersection	30	24	5.00		1	0		0	0	0	0		
192	724+40	Left	R6-2-R	One Way RIGHT Arrow	24	30	5.00		1	1		0	1	0	0		
192-2	276+60	Left	R6-2-R	One Way RIGHT Arrow	24	30	5.00		0	0		0	1	0	0	ADD R6-2	
193	752+38	Left	R6-2-R	One Way RIGHT Arrow	24	30	5.00		1	1		0	0	1	0		
193-1	791+90	Left	R6-2-R	One Way RIGHT Arrow	24	30	5.00		0	0		0	0	1	0	ADD R6-2	
194	757+13	Right	D10-3	Milepost Marker (3 Digit):180	12	48	4.00		1	1		1	0	0	0		
195	809+93	Right	D10-3	Milepost Marker (3 Digit):181	12	48	4.00		1	1		0	1	0	0		
196	828+41	Left	R6-2-R	One Way RIGHT Arrow	24	30	5.00		1	1		0	1	0	0		
197	840+03	Left	R6-2-R	One Way RIGHT Arrow	24	30	5.00		1	1		0	0	1	0		
198	862+73	Right	D10-3	Milepost Marker (3 Digit):182	12	48	4.00		1	1		0	1	0	0		
199	870+12	Right	D5-61	Wayside [1/2] Mile	78	42	22.75		1	2		0	0	0	2		
200	871+18	Left	R6-2-R	One Way RIGHT Arrow	24	30	5.00		1	1		0	0	1	0		
201	892+83	Right	R3-20-R	Right Turn Lane With Down Left Arrow (REMOVE)	36	48	0.00		1	1		0	0	0	0	REMOVE	
202	893+36	Median	R5-1A	Wrong Way	42	30	8.75		1	1		0	0	1	0		
203	893+88	Median	R5-1	Do Not Enter	36	36	9.00		1	1		0	0	1	0		
204	894+94	Median	R1-1	Stop	36	36	7.46		1	1		0	0	1	0		
205	894+94	Median	R6-1-L	One Way LEFT Arrow	36	12	3.00		1	1		0	0	0	0	REPLACE R6-2-L, 30'X24"	
206	894+94	Median	R6-1-R	One Way RIGHT Arrow	36	12	3.00		0	0		0	0	0	0	REPLACE R6-2-R, 30'X24"	
					SUBTOTALS=		189.34	0.00	29	28		1	6	14	2		

PERMANENT SIGNING (1198-08-70) (CONTINUED)																	
SIGN NUMBER	STATION	LOCATION	SIGN CODE	MESSAGE	SIGN SIZE WXH (INCH)		637.2210 SIGN TYPE II RELFECTIV E H (SF)	637.2230 SIGN TYPE II RELFECTIV E F (SF)	638.2602 REMOVING SIGN TYPE (II) (EACH)	638.3000 REMOVING SMALL SIGN SUPORT TYPE (II) (EACH)		634.0612 POSTS WOOD 4X6 -INCH X 12FT (EACH)	634.0614 POSTS WOOD 4X6 -INCH X 14FT (EACH)	634.0616 POSTS WOOD 4X6 -INCH X 16FT (EACH)	634.0618 POSTS WOOD 4X6 -INCH X 18FT (EACH)	COMMENTS	
207	896+00	Right	D5-62-R	Wayside (RIGHT Arrow)	96	48	32.00		1	2		0	0	0	2		
208	896+52	Right	R1-1	Stop	36	36	7.46		1	1		0	0	1	0		
209	896+52	Right	R6-1-L	One Way LEFT Arrow	24	30	5.00		1	1		0	0	0	0	REPLACE R6-2-L, 30"X24"	
210	896+52	Right	R6-1-R	One Way RIGHT Arrow	24	30	5.00		0	0		0	0	0	0	REPLACE R6-2-R, 30"X24"	
211	896+52	Right	R6-3-A	Divided Highway Crossing T Intersection	30	24	5.00		0	0		0	0	0	0		
212	910+25	Right	W11-6	Snowmobile Crossing Symbol	48	48	0.00	16.00	1	1		0	0	1	0	REPLACE W11-6, 30"X30"	
213	916+06	Right	D10-3	Milepost Marker (3 Digit):183	12	48	4.00		1	1		0	1	0	0		
215	920+28	Left	R3-4B	No U-Turn Symbol and	36	48	12.00		1	1		0	0	1	0	REPLACE R3-4, R3-4A	
215	920+28			Except Maintenance And Police Authorized Vehicles	0	0	0.00		0	0		0	0	0	0		
216	935+60	Right	W6-53	Cross Traffic - Next _39_ Miles (To Remain)	144	48	0.00		0	0		0	0	0	0	TO REMAIN	
217	936+12	Left	R6-2-R	One Way RIGHT Arrow	24	30	5.00		1	1		0	0	1	0		
218	941+93	Right	D1-61	Crossroad Name:Brooklyn Rd.	90	30	18.75		1	2		0	0	2	0	REPLACE M1-94	
219	948+80	Median	R5-1A	Wrong Way	42	30	8.75		1	1		0	0	1	0		
220	949+85	Median	R5-1	Do Not Enter	36	36	9.00		1	1		0	0	1	0		
221	950+38	Median	R1-1	Stop	36	36	7.46		1	1		0	0	1	0		
222	950+38	Median	R6-1-L	One Way LEFT Arrow	36	12	3.00		1	1		0	0	0	0	REPLACE R6-2-L, 30"X24"	
223	950+38	Median	R6-1-R	One Way RIGHT Arrow	36	12	3.00		0	0		0	0	0	0	REPLACE R6-2-R, 30"X24"	
224	952+49	Right	R1-1	Stop	36	36	7.46		1	1		0	0	1	0		
225	952+49	Right	R6-1-L	One Way LEFT Arrow	36	12	3.00		1	1		0	0	0	0	REPLACE R6-2-L, 30"X24"	
226	952+49	Right	R6-1-R	One Way RIGHT Arrow	36	12	3.00		0	0		0	0	0	0	REPLACE R6-2-R, 30"X24"	
227	952+49	Right	R6-3-A	Divided Highway Crossing T Intersection	30	24	5.00		0	0		0	0	0	0		
228	969+39	Right	D10-3	Milepost Marker (3 Digit):184	12	48	4.00		1	1		0	1	0	0		
229	982+06	Right	D1-1	Crossroad Name:West Block Rd.	102	21	14.88		1	2		0	0	2	0	REPLACE M1-94	
230	990+51	Left	R5-1A	Wrong Way	42	30	8.75		1	1		0	0	1	0		
231	991+56	Left	R5-1	Do Not Enter	36	36	9.00		1	1		0	0	1	0		
232	992+09	Left	R1-1	Stop	36	36	7.46		1	1		0	0	1	0		
233	992+09	Left	R6-1-L	One Way LEFT Arrow	36	12	3.00		1	1		0	0	0	0	REPLACE R6-2-L, 30"X24"	
233-1	993+68	Right	R6-1-R	One Way LEFT Arrow (ADD)	36	12	3.00		0	0		0	0	0	0	REPLACE R6-2-R, 30"X24"	
234	993+68	Right	R6-2-L	One Way LEFT Arrow	36	12	3.00		1	1		0	0	1	0	REPLACE R6-2-R, 30"X24"	
235	997+37	Right	E10-82	Tourist-Oriented Directional Signs (TODS)(TO REMAIN)													
235-1	998+00	Right	J3-1	JCT, Buiness 53	36	84	21.00		0	0		0	0	2	0	ADD J3-1	
235-1	998+00	Right	J3-1	Buiness 53, RT arrow	36	84	21.00		0	0		0	0	2	0	ADD J3-1	
235-1	998+00	Right	J3-1	Buiness 53, RT Destination arrow	36	84	21.00		0	0		0	0	2	0	ADD J3-1	
236	1010+57	Right	D1-1	One Destination (Arrow):Minong Business District	90	48	30.00		1	2		0	0	2	0		
237	1014+27	Median	D1-1	Crossroad Name:Transfer St.	108	21	15.75		1	2		0	0	2	0	REPLACE M1-94	
238	1017+96	Left	R5-1A	Wrong Way	72	60	30.00		1	1		0	0	1	0		
239	1018+49	Right	E5-1	Exit (Arrow)	66	66	30.25		1	2		0	0	2	0		
240	1019+02	Left	R5-1	Do Not Enter	36	36	9.00		1	1		0	0	1	0		
241	1019+55	Median	R1-1	Stop	36	36	7.46		1	1		0	0	1	0		
242	1021+13	Right	R6-2-L	One Way LEFT Arrow	24	30	5.00		1	1		0	0	1	0		
243	1022+72	Right	D10-3	Milepost Marker (3 Digit):185	12	48	4.00		1	1		0	1	0	0		
					SUBTOTALS=		391.43	16.00	29	35		0	3	32	2		
					TOTALS=		1186.64	16.00	123	133		1	14	97	4		

3

3

TRAFFIC CONTROL																																															
				643.0200 TRAFFIC CONTROL				643.0300 Drums				643.0420 BARRICADES TYPE III				643.0705 WARNING LIGHTS TYPE A				643.0715 WARNING LIGHTS TYPE C				643.0800 ARROW BORRDS				643.0900 SIGN				643.1051 SIGNS PCMS				646.0600 REMOVING PAVEMENT MARKINGS				649.0401 TEMPORARY PAVEMENT MARKING REMOVABLE CONTRAST TAPE 4-INCH							
Sta.	to	Sta.	Length(ft)	No.	Day	DAY	Number	Day	Number	Day	Number	Day	Number	Day	Number	Day	Number	Day	Number	LF	Number	LF	STAGES	REMARKS																							
373+40				22			0		0			0		0	2	44							1&3, ML.	Road Work 1Mile.																							
378+40				22			0		0			0		0	2	44							1&3, ML.	Speed Limit 55 MPH																							
390+60				22			0		0			0		0	2	44							1&3, ML.	Speed Limit 55 MPH																							
399+40				22			0		0			0		0	2	44							1&3, ML.	RT/LT Close 1/2 Mile																							
409+65				22			0		0			0		0	2	44							1&3, ML.	RT/LT Close 1500'																							
415+40				22	45		0		0			0		0	2	44							1&3, ML.	RT/LT Close .																							
420+10				22		10	220		0			0		0		0	1	26					1&3, ML.	5 Drump @10' Intervals																							
420+15				22			0		0			0		4	88		0						1&3, ML.	Flasing Arrow Baoard																							
420+20		440+00	1980	22		64	1408		0		28	616		0		0							1&3, ML.	Chennelized Drumps																							
424+40		432+00	760	22			0		0			0		0		0			1	760			1&3, ML.	Removing Pavement Marking																							
425+40		431+40	600	22			0		0			0		0		0					2	1200	1&3, ML.	Removing Tape 4"																							
433+00				22			0		0			0		0	2	44							1&3, ML.	Keep LT/RT																							
433+00				22			0		0			0		0	2	44							1&3, ML.	XX M.P.H																							
433+00				22			1	22	0			0		0		0							1&3, ML.	Type III Barricades with attached signs																							
434+00				22			1	22	2	44		0		0	1	22							1&3, ML.	Type III Barricades with attached signs																							
																0																															
440+00	--	453+20	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
453+20	--	466+40	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
466+40	--	479+60	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
479+60	--	492+80	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
492+80	--	506+00	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
506+00	--	519+20	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
519+20	--	532+40	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
532+40	--	545+60	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
545+60	--	558+80	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
558+80	--	572+00	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
572+00	--	585+20	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
585+20	--	598+40	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
598+40	--	611+60	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
611+60	--	624+80	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
624+80	--	638+00	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
638+00	--	651+20	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
651+20	--	664+40	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
664+40	--	677+60	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
677+60	--	690+80	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
690+80	--	704+00	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
704+00	--	717+20	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
717+20	--	730+40	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
730+40	--	743+60	1320	22		14	308	2	44			0		0		0							1&3, ML.																								
1026+00	--	1026+00		45								0		0	2	90							1,2,3&4, M	End Road Work																							
1031+88	--	1031+00		45								0		0	2	90							1,2,3&4, M	Speed Limit 65 MPH																							
Side Roads	Location																																														
452+85	Whalen Lake Road			22			4	88							2	44							1 &3, Sr.	Road Work Ahead																							
478+80	Barrett road			22			4	88							2	44							1 &3, Sr.	Road Work Ahead																							
505+00	Schnagel Road			22			4	88							2	44							1 &3, Sr.	Road Work Ahead																							
582+50	oak ridge Dr.			22			4	88							2	44							1 &3, Sr.	Road Work Ahead																							
644+50	CTH F			22			4	88							2	44							1 &3, Sr.	Road Work Ahead																							
655+25	CTH F			22			4	88							2	44							1 &3, Sr.	Road Work Ahead																							
682+23	Birhwood Dr.			22			4	88							2	44							1 &3, Sr.	Road Work Ahead																							
709+23	Palmer Dr.			22			4	88							2	44							1 &3, Sr.	Road Work Ahead																							
SubTotal=				45	396	8712	80	1760	2	44	28	616	4	88	37	906	1	26	1	760	2	1200																									

PROJECT NO: 1198-08-70

HWY: USH 53

COUNTY: WASHBURN

MISCELLANEOUS QUANTITIES

SHEET:

E

										TRAFFIC CONTROL																			
																				649.0401									
																				646.0600									
																				TEMPORARY									
																				REMOVING									
																				PAVEMENT MARKING									
																				REMOVABLE CONTRAST									
																				TAPE 4-INCH									
Sta.	to	Sta.	Length(ft)	N0.Day	DAY	Number	Day	Number	Day	Number	Day	Number	Day	Number	Day	Number	Day	Number	Day	Number	LF	Number	LF	STAGES	REMARKS				
677+00				23		0		0				0		0		2	46							2&4, ML.	Road Work 1Mile				
682+00				23		0		0				0		0		2	46							2&4, ML.	Speed Limit 55 MPH				
694+20				23		0		0				0		0		2	46							2&4, ML.	Speed Limit 55 MPH				
703+00				23		0		0				0		0		2	46							2&4, ML.	RT/LT Close 1/2 Mile				
713+25				23		0		0				0		0		2	46							2&4, ML.	RT/LT Close 1500'				
719+00				23		0		0				0		0		2	46							2&4, ML.	RT/LT Close				
723+70				23		10	230	0				0		0			0	1	26					2&4, ML.	5 Drump @10' Intervals				
723+75				23			0	0					0	4	92		0							2&4, ML.	Flasing Arrow Baoard				
723+80		743+60	1980	23		64	1472	0				28	644		0		0							2&4, ML.	Chennelized Drumps				
728+00		735+60	760	23			0	0					0		0		0			1	760			2&4, ML.	Removing Pavement Marking				
729+00		735+00	600	23			0	0					0		0		0					2	1200	2&4, ML.	Removing Tape 4"				
736+60				23				0					0		0	2	46							2&4, ML.	Keep LT/RT				
736+60				23				0					0		0	2	46							2&4, ML.	XX M.P.H				
736+60				23				1	23				0		0		0							2&4, ML.	Type III Barricades with attached signs				
737+60				23				1	23	2	46		0		0	1	23							2&4, ML.	Type III Barricades with attached signs				
743+60	--	756+80	1320	23		14	322	2	46				0		0		0							2&4, ML.					
756+80	--	770+00	1320	23		14	322	2	46				0		0		0							2&4, ML.					
770+00	--	783+20	1320	23		14	322	2	46				0		0		0							2&4, ML.					
783+20	--	796+40	1320	23		14	322	2	46				0		0		0							2&4, ML.					
796+40	--	809+60	1320	23		14	322	2	46				0		0		0							2&4, ML.					
809+60	--	822+80	1320	23		14	322	2	46				0		0		0							2&4, ML.					
822+80	--	836+00	1320	23		14	322	2	46				0		0		0							2&4, ML.					
836+00	--	849+20	1320	23		14	322	2	46				0		0		0							2&4, ML.					
849+20	--	862+40	1320	23		14	322	2	46				0		0		0							2&4, ML.					
862+40	--	875+60	1320	23		14	322	2	46				0		0		0							2&4, ML.					
875+60	--	888+80	1320	23		14	322	2	46				0		0		0							2&4, ML.					
888+80	--	902+00	1320	23		14	322	2	46				0		0		0							2&4, ML.					
902+00	--	915+20	1320	23		14	322	2	46				0		0		0							2&4, ML.					
915+20	--	928+40	1320	23		14	322	2	46				0		0		0							2&4, ML.					
928+40	--	941+60	1320	23		14	322	2	46				0		0		0							2&4, ML.					
941+60	--	954+80	1320	23		14	322	2	46				0		0		0							2&4, ML.					
954+80	--	968+00	1320	23		14	322	2	46				0		0		0							2&4, ML.					
968+00	--	981+20	1320	23		14	322	2	46				0		0		0							2&4, ML.					
981+20	--	994+40	1320	23		14	322	2	46				0		0		0							2&4, ML.					
994+40	--	1007+60	1320	23		14	322	2	46				0		0		0							2&4, ML.					
1007+60	--	1020+80	1320	23		14	322	2	46				0		0		0							2&4, ML.					
1020+80	--	1034+00	1320	23		14	322	2	46				0		0		0							2&4, ML.					
Side Roads	Location																												
951+00		Brooklyn Dr.		23				4	92				0		0	2	46							2&4, Sr.	Road Work Ahead				
992+50		W. Block Road		23				4	92				0		0	2	46							2&4, Sr.	Road Work Ahead				
1020+00		Transfer ST.		23				4	92				0		0	1	23							2&4, Sr.	Road Work Ahead				
				SubTotal=		0	382	8786	58	1334	2	46	28	644	4	92	22	506	1	26	1	760	2	1200					
				Total =		45	778	17498	138	3094	4	90	56	1260	8	180	59	1412	2	52	2	1520	4	2400					

642.5201	FIELD.OFFICE.TYPE.C.(PROJECT #1198-08-70)							
CAT.	STA.	--	STA.	.	.	.	LOCATION	EACH
----	-----	--	-----	.	.	.	-----	-----
10	440+00.0	--	1021+50.0	.	.	.	PROJECT	1.00
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	1.00

646.0107.S	PAVEMENT.MARKING.GROOVED.EPOXY.4-INCH							
CAT.	STA.	--	STA.	LENGTH	TYPE	#LAYERS	LOCATION	L.F.
----	-----	--	-----	-----	----	-----	-----	-----
10	440+00.0	--	633+83.0	19383	2	2	ML EDGES	38,766.00
10	633+83.0	--	827+66.0	19383	2	2	ML EDGES	38,766.00
10	827+66.0	--	1021+50.0	19384	2	2	ML EDGES	38,768.00
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	116,300.00

646.0127.S	PAVEMENT.MARKING.GROOVED.EPOXY.8-INCH							
CAT.	STA.	--	STA.	.	.	.	LOCATION	LF
----	-----	--	-----	.	.	.	-----	-----
10	47520	--	47850	.	.	.	BARRETT RD. LT.	330.00
10	64225	--	64415	.	.	.	CTH F RT.	190.00
10	65050	--	65450	.	.	.	CTH F LT.	400.00
10	89210	--	89550	.	.	.	WAYSIDE RT.	340.00
10	101250	--	101400	.	.	.	BUS 53 GORE	300.00
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	1,560.00

646.0842.S	PAVEMENT.MARKING.GROOVED.CONTRA.WET.REFLECTIVE.EPOXY.4-INCH							
CAT.	STA.	--	STA.	LENGTH	TYPE	#LAYERS	LOCATION	LF.
----	-----	--	-----	-----	----	-----	-----	-----
10	44000	--	63383	19383	1	1	CL.LN.	4,846
10	63383	--	82766	19383	1	1	CL.LN.	4,846
10	82766	--	102150	19384	1	1	CL.LN.	4,846
10	47350	--	47500	150	6	0	LT.LT.TURN	0.00
10	47500	--	48000	500	12	2	LT.LT.TURN	1,000.00
10	64100	--	64250	150	6	0	RT.RT.TURN	0.00
10	64250	--	64500	250	12	2	RT.RT.TURN	500.00
10	64975	--	65125	150	6	0	LT.LT.TURN	0.00
10	65125	--	65575	450	12	2	LT.LT.TURN	900.00
10	89100	--	89250	150	6	0	RT.RT.TURN	0.00
10	89250	--	89600	350	12	2	RT.RT.TURN	700.00
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	17,638

647.0166	PAVEMENT.MARKING.ARROWS.EPOXY.TYPE.2							
CAT.	STA.	--	STA.	LENGTH	TYPE	#LAYERS	LOCATION	EACH
----	-----	--	-----	-----	----	-----	-----	-----
10	64250	--	64500	250	12	3.25	CTH F RT.RT	2.00
10	65125	--	65575	450	12	3.25	CTH F LT.LT	2.00
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	4.00

647.0356	PAVEMENT.MARKING.WORDS.EPOXY							
CAT.	STA.	--	STA.	LENGTH	TYPE	#LAYERS	LOCATION	EACH
----	-----	--	-----	-----	----	-----	-----	-----
10	0	--	64500	64500	12	3.25	CTH F RT.RT	1.00
10	0	--	65575	65575	12	3.25	CTH F LT.LT	2.00
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	3.00

647.0566	PAVEMENT.MARKING.STOP.LINE.EPOXY.18-INCH							
CAT.	STA.	--	STA.	.	.	.	LOCATION	LF
----	-----	--	-----	.	.	.	-----	-----
10	895+80	--	596+00	.	.	.	LT_MEDIAN	20.00
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	20.00

649.0402	TEMPORARY.PAVEMENT.MARKING.PAINT.4-INCH							
CAT.	STA.	--	STA.	LENGTH	TYPE	#LAYERS	LOCATION	L.F.
----	-----	--	-----	-----	----	-----	-----	-----
10	44000	--	63383	19383	1	2	CL.LN.	9,692
10	63383	--	82766	19383	1	2	CL.LN.	9,692
10	82766	--	102150	19384	1	2	CL.LN.	9,692
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	29,075

650.8000	CONSTRUCTION.STAKING.RESURFACING.REFERENCE							
CAT.	STA.	--	STA.	.	.	.	LOCATION	LF
----	-----	--	-----	.	.	.	-----	-----
10	440+00.0	--	1021+50.0	.	.	.	PROJECT	58,150
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	58,150

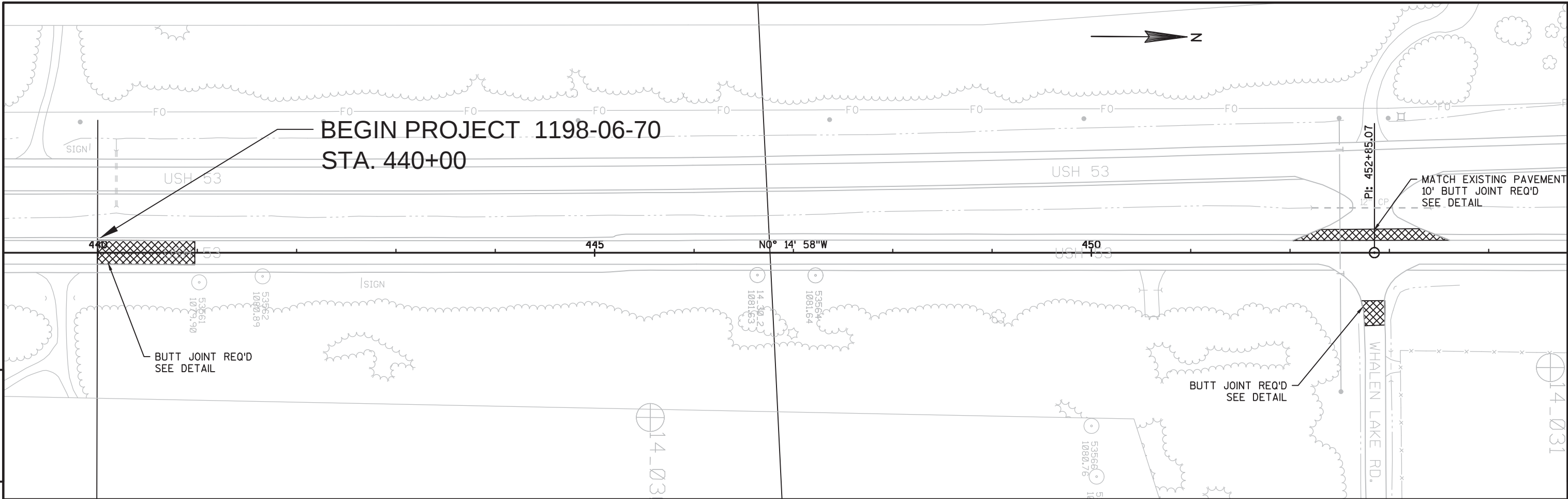
650.9910	CONSTRUCTION.STAKING.SUPPLEMENTAL.CONTROL.(PROJECT #1198-08-70)							
CAT.	STA.	--	STA.	.	.	.	LOCATION	LS
----	-----	--	-----	.	.	.	-----	-----
10	440+00.0	--	1021+50.0	.	.	.	PROJECT	1
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	1

690.0150	SAWING.ASPHALT							
CAT.	STA.	--	STA.	.	.	.	LOCATION	LF
----	-----	--	-----	.	.	.	-----	-----
10	440+00.0	--	440+00.0	.	.	.	ML.LT.	18.00
10	440+00.0	--	440+00.0	.	.	.	ML.RT.	18.00
10	1021+50.0	--	1021+50.0	.	.	.	ML.LT.	18.00
10	1021+50.0	--	1021+50.0	.	.	.	ML.RT.	18.00
10	45285	--	45345	.	.	.	LT.SRD.	12.00
10	45285	--	45345	.	.	.	RT.SRD.	12.00
10	50490	--	50550	.	.	.	LT.SRD.	12.00
10	50490	--	50550	.	.	.	RT.SRD.	12.00
10	53070	--	53130	.	.	.	LT.SRD.	12.00
10	53070	--	53130	.	.	.	RT.SRD.	12.00
10	58260	--	58320	.	.	.	LT.SRD.	12.00
10	58260	--	58320	.	.	.	RT.SRD.	12.00
10	60870	--	60930	.	.	.	LT.SRD.	12.00
10	60870	--	60930	.	.	.	RT.SRD.	12.00
10	64475	--	64535	.	.	.	LT.SRD.	12.00
10	64475	--	64535	.	.	.	RT.SRD.	12.00
10	65520	--	65580	.	.	.	LT.SRD.	12.00
10	65520	--	65580	.	.	.	RT.SRD.	12.00
10	68223	--	68283	.	.	.	LT.SRD.	12.00
10	68223	--	68283	.	.	.	RT.SRD.	12.00
10	70924	--	70984	.	.	.	LT.SRD.	12.00
10	70924	--	70984	.	.	.	RT.SRD.	12.00
10	89570	--	89630	.	.	.	LT.SRD.	12.00
10	89570	--	89630	.	.	.	RT.SRD.	12.00
10	91980	--	92040	.	.	.	LT.SRD.	12.00
10	91980	--	92040	.	.	.	RT.SRD.	12.00
10	95100	--	95160	.	.	.	LT.SRD.	12.00
10	95100	--	95160	.	.	.	RT.SRD.	12.00
10	99260	--	99320	.	.	.	LT.SRD.	12.00
10	99260	--	99320	.	.	.	RT.SRD.	12.00
10	101300	--	101360	.	.	.	LT.SRD.	12.00
10	101300	--	101360	.	.	.	RT.SRD.	12.00
10	102000	--	102060	.	.	.	LT.SRD.	12.00
10	102000	--	102060	.	.	.	RT.SRD.	12.00
.	.	.	.	.	.	.	-----	-----
.	.	.	.	.	.	.	TOTAL==	432.00

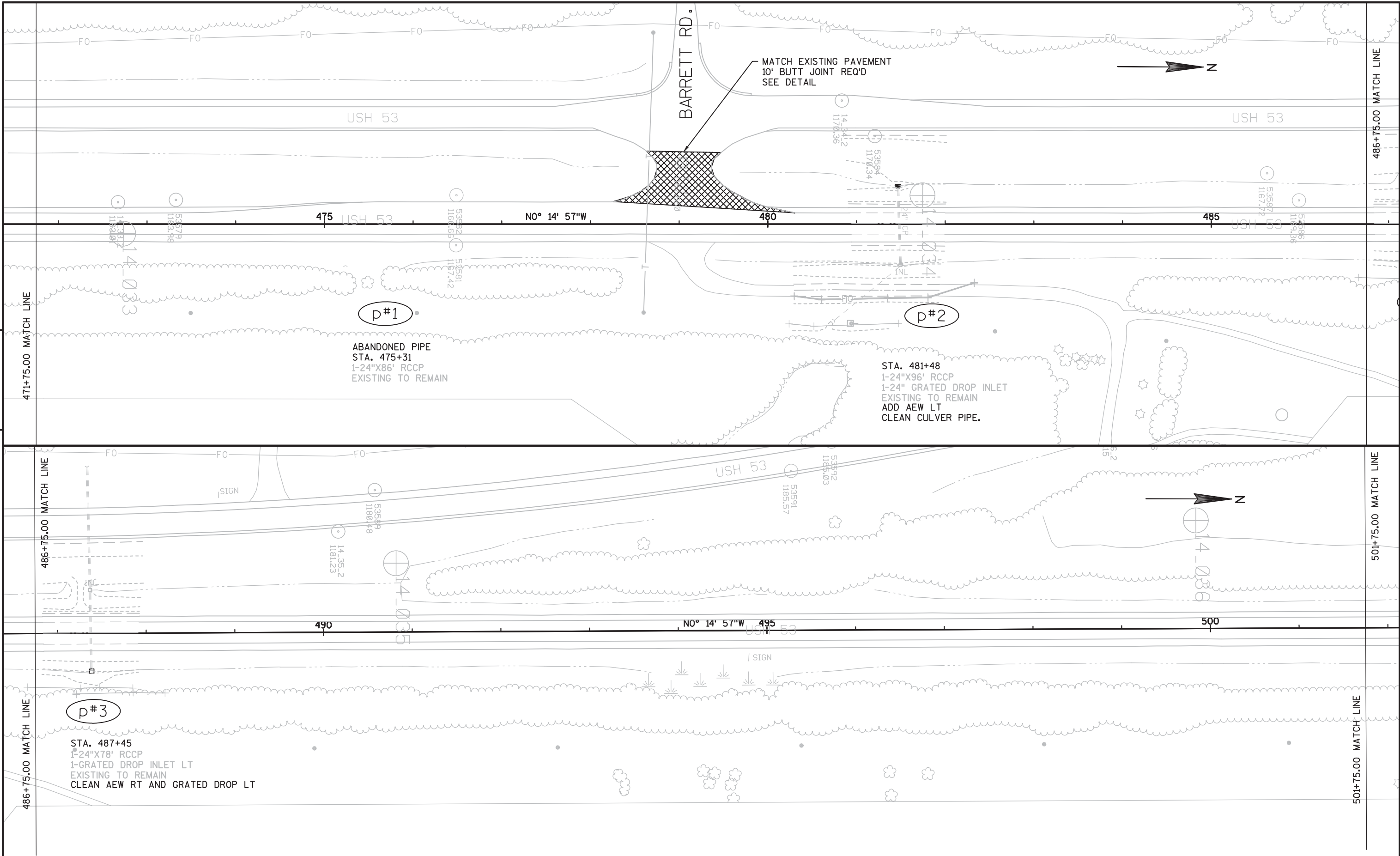
204.0180	REMOVING DELINEATORS AND MARKERS							
633.0100	DELINEATOR POST STEEL							
633.0500	DELINEATOR REFLECTORS							
					REMOVIMG			
					DELIN.&MARKERS		# POSTS	# REFLECTORS
CAT.	STA.	--	STA.	LENGTH	EACH	EACH	EACH	LOCATION
----	-----	--	-----	-----	-----	-----	-----	-----
10	440+00.0	--	452+85.0	1285	3	3	3	Whalen Lake F
10	452+85.0	--	479+25.0	2640	7	7	7	Barrett Rd.
10	479+25.0	--	504+90.0	2565	13	13	13	Schnagel Dr.
10	504+90.0	--	582+60.0	7770	12	12	12	Oak Ridge Dr.
10	582+60.0	--	644+60.0	6200	19	19	19	CTH F RT.
10	644+60.0	--	655+10.0	1050	4	4	4	CTH F LT.
10	655+10.0	--	682+23.0	2713	8	8	8	Birchwood Dr.
10	682+23.0	--	709+23.0	2700	7	7	7	Palmer Dr.
10	709+23.0	--	891+00.0	18177	59	59	59	Wayside
10	891+00.0	--	951+00.0	6000	10	10	10	Brooklyn Dr.
10	951+00.0	--	992+50.0	4150	10	10	10	W. Block Rd
10	992+50.0	--	1012+00.0	1950	9	9	9	Exist Bus. 53
10	1012+00.0	--	1021+50.0	950	10	10	10	Transfer St.
	.	.	.	.	-----	-----	-----	
	.	.	.	TOTAL==	171	171	171	

SPV.0105	SPECIAL.MATERIAL.TRANSFER.VEHICLE							
								LS
CAT.	STA.	--	STA.	.	.	.	LOCATION	-----
----	-----	--	-----	.	.	.	-----	1.00
10	440+00.0	--	1021+50.0	.	.	.	PROJECT	-----
.	.	.	.	.	.	.	-----	1.00
.	.	.	.	.	.	.	TOTAL==	

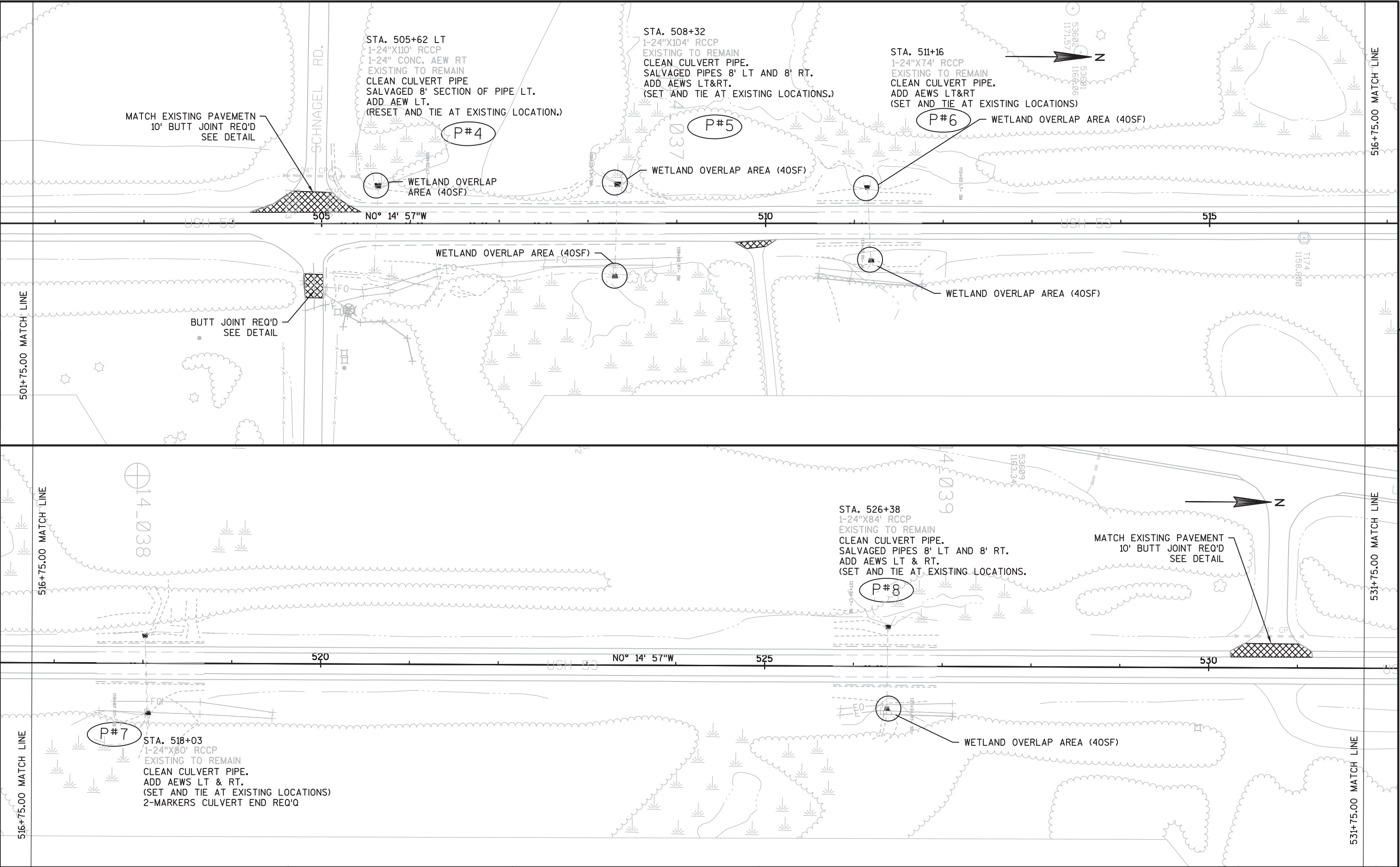
	SPV.0105.02	SPECIAL.TEMPORARY.WATER.DIVERSION CULVERT #29 STA. 765+18						
CAT.	STA.	--	LOCATION		LS	REMARKS		
----	-----	--	-----		-----	-----		
10	765+18	--	STUNTZ BROOK		1	STOP FLOW TIME: 15 MINUTES MAX.		
.	.	.	-----		-----			
.	.	.	TOTAL==		1			
	SPV.0105.03	SPECIAL.TEMPORARY.WATER.DIVERSION CULVERT #34 STA. 851+12						
CAT.	STA.	--	LOCATION		LS	REMARKS		
----	-----	--	-----		-----	-----		
10	851+12	--	CHICOG CREEK		1	STOP FLOW TIME: 15 MINUTES MAX.		
.	.	.	-----		-----			
.	.	.	TOTAL==		1			
	SPV.0105.04	SPECIAL.TEMPORARY.WATER.DIVERSION CULVERT #40 STA. 890+15						
CAT.	STA.	--	LOCATION		LS	REMARKS		
----	-----	--	-----		-----	-----		
10	890+15	--	WET LAND		1	STOP FLOW TIME: 30 MINUTES MAX.		
.	.	.	-----		-----			
.	.	.	TOTAL==		1			



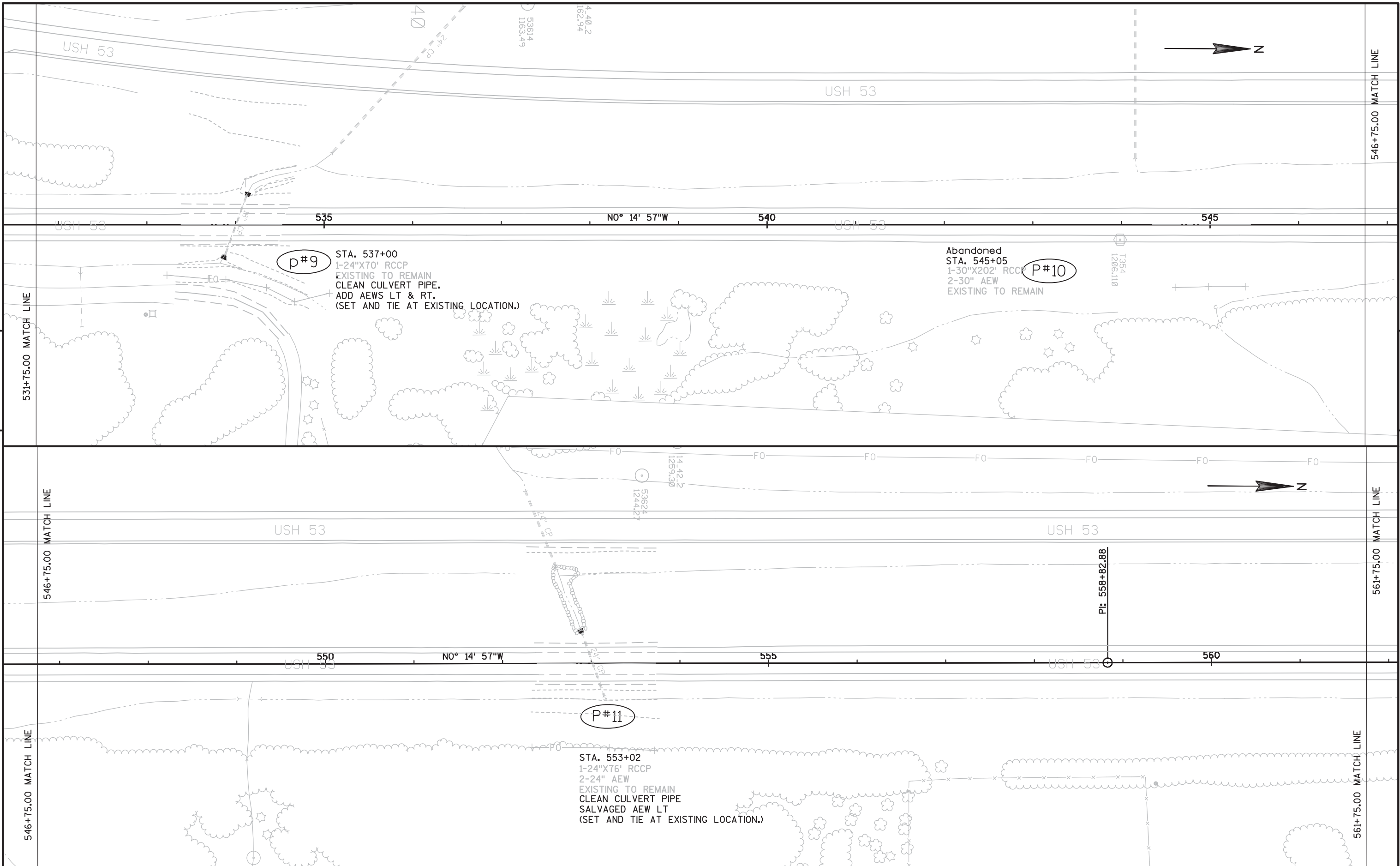
PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PLAN	SHEET	E
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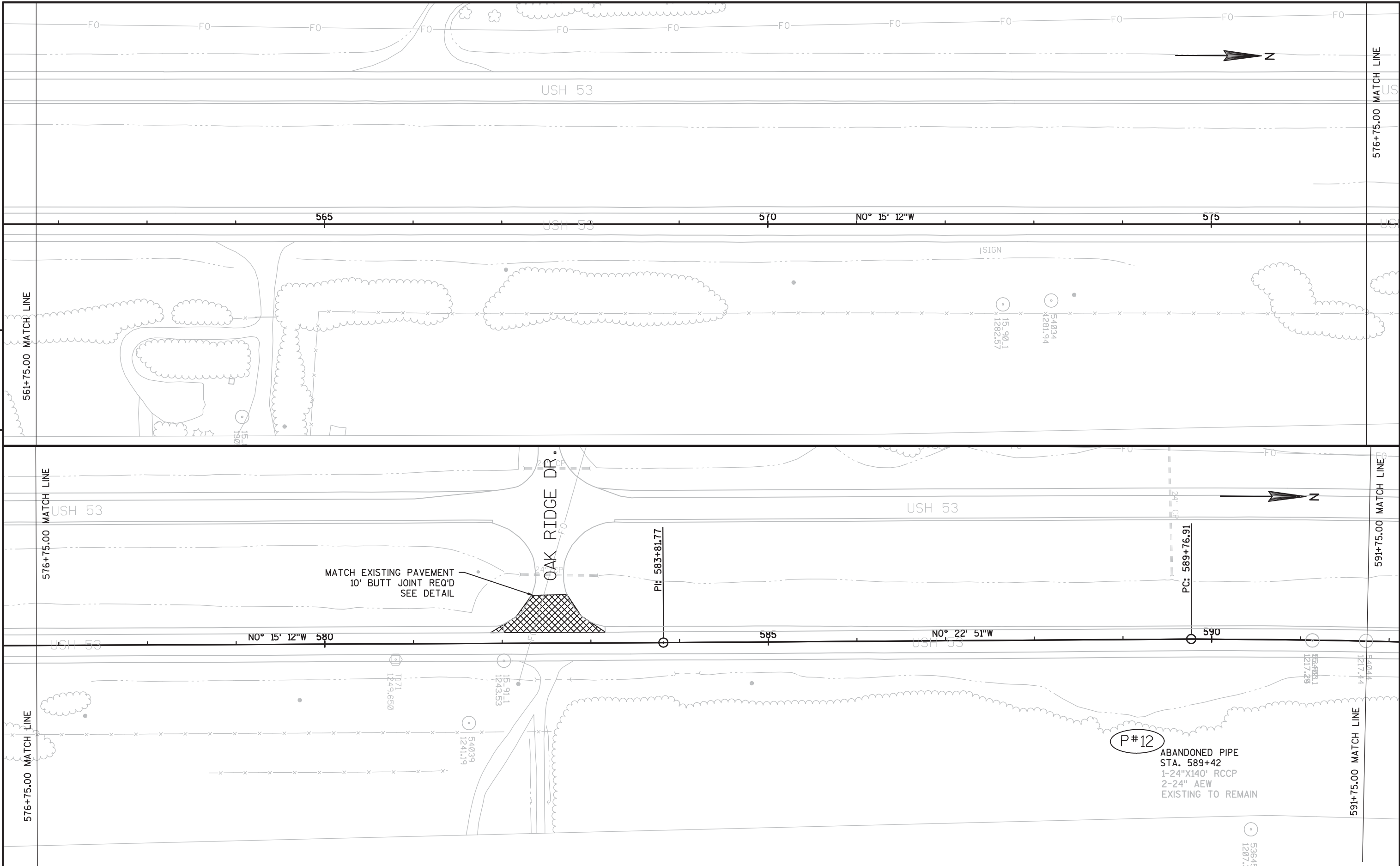
PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PLAN	SHEET	E
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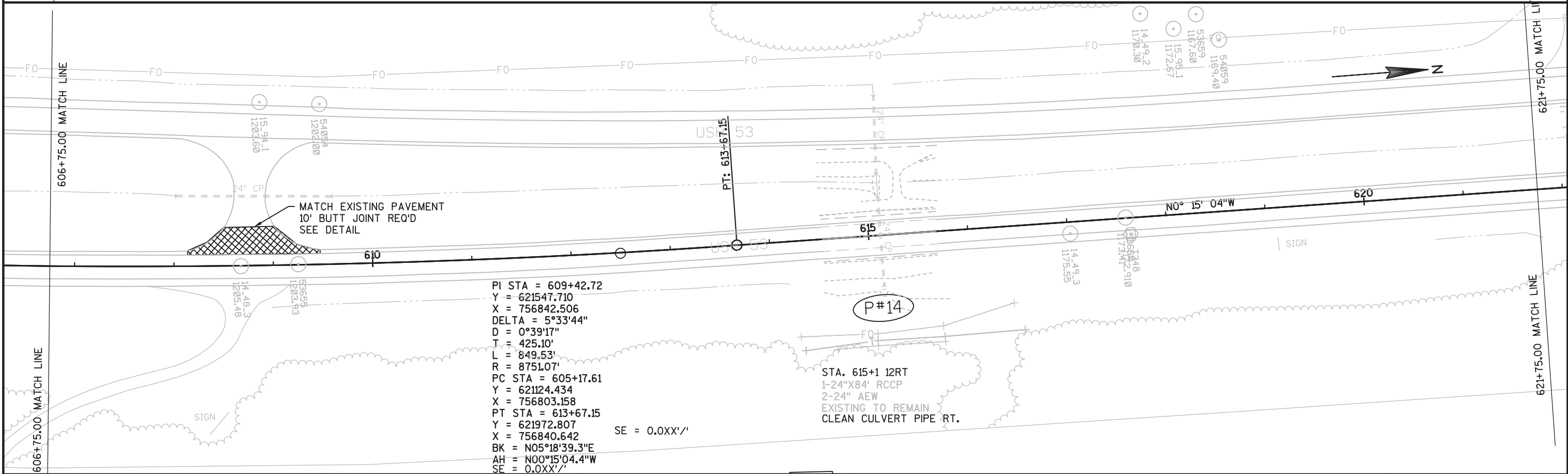
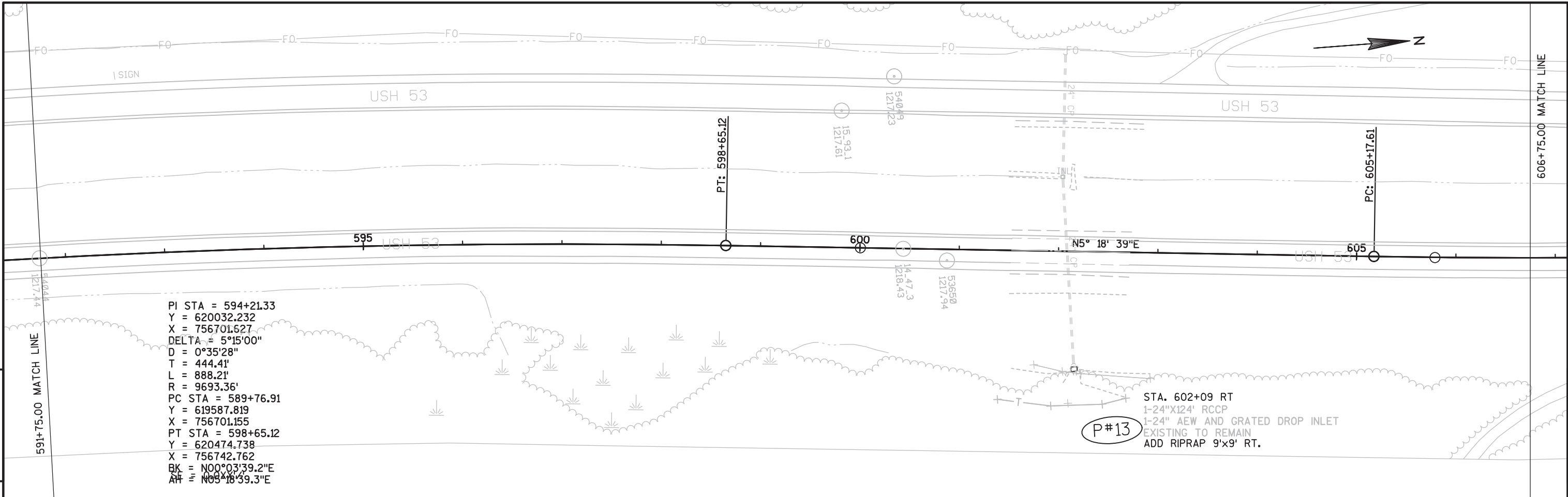
PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PLAN	SHEET	E
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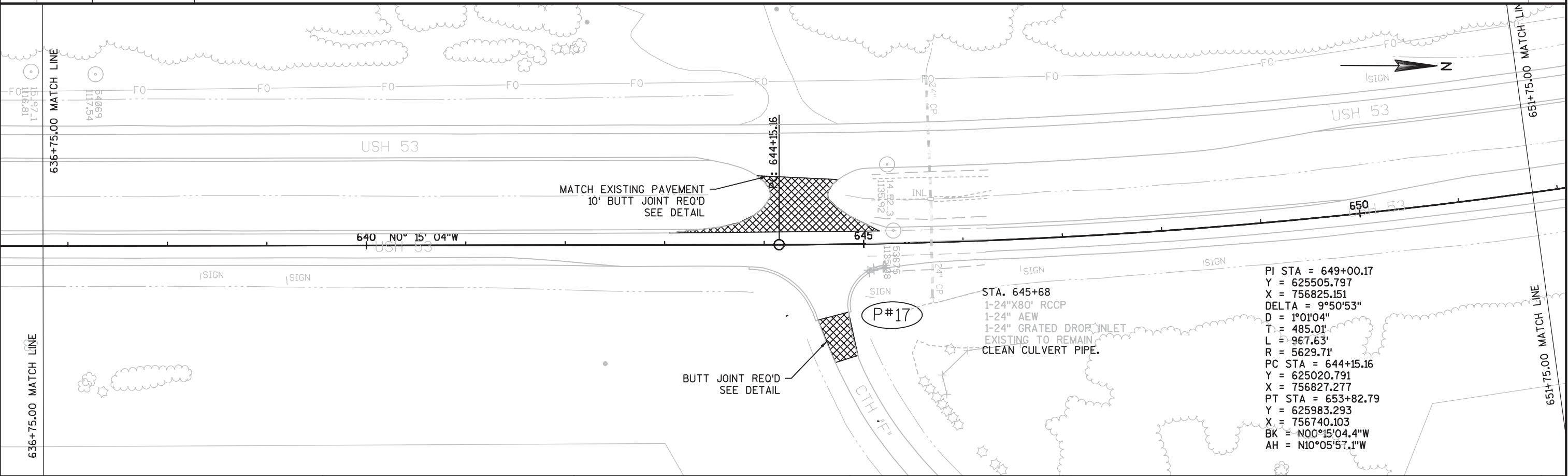
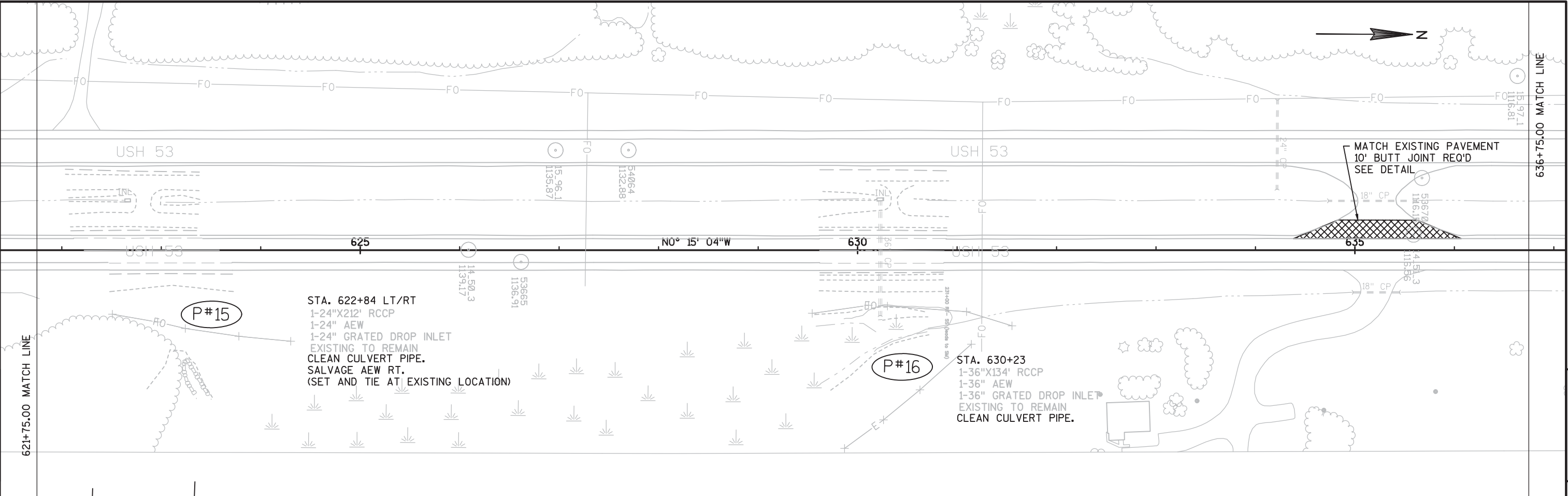
PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PLAN	SHEET	E
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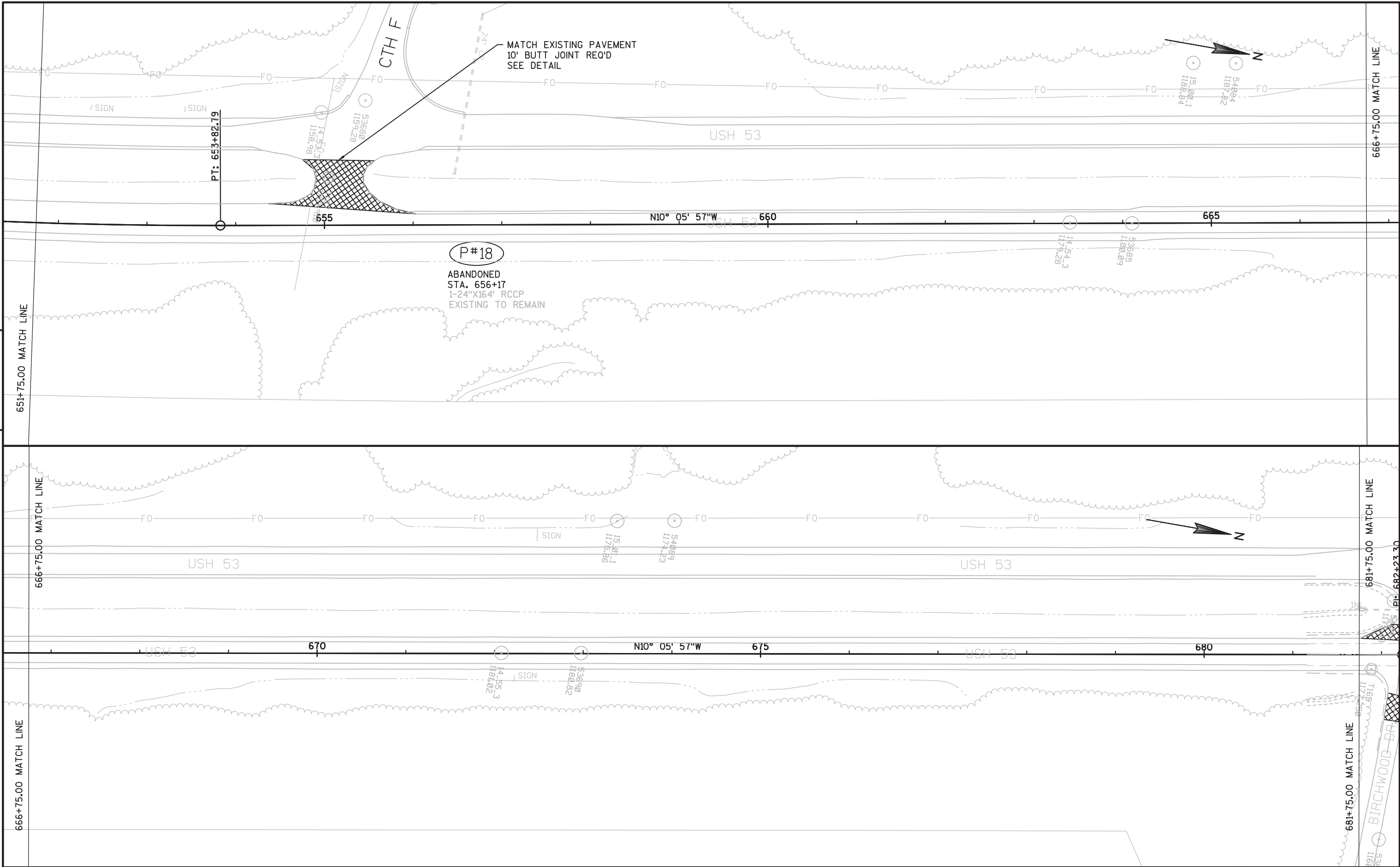
PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PLAN	SHEET	E
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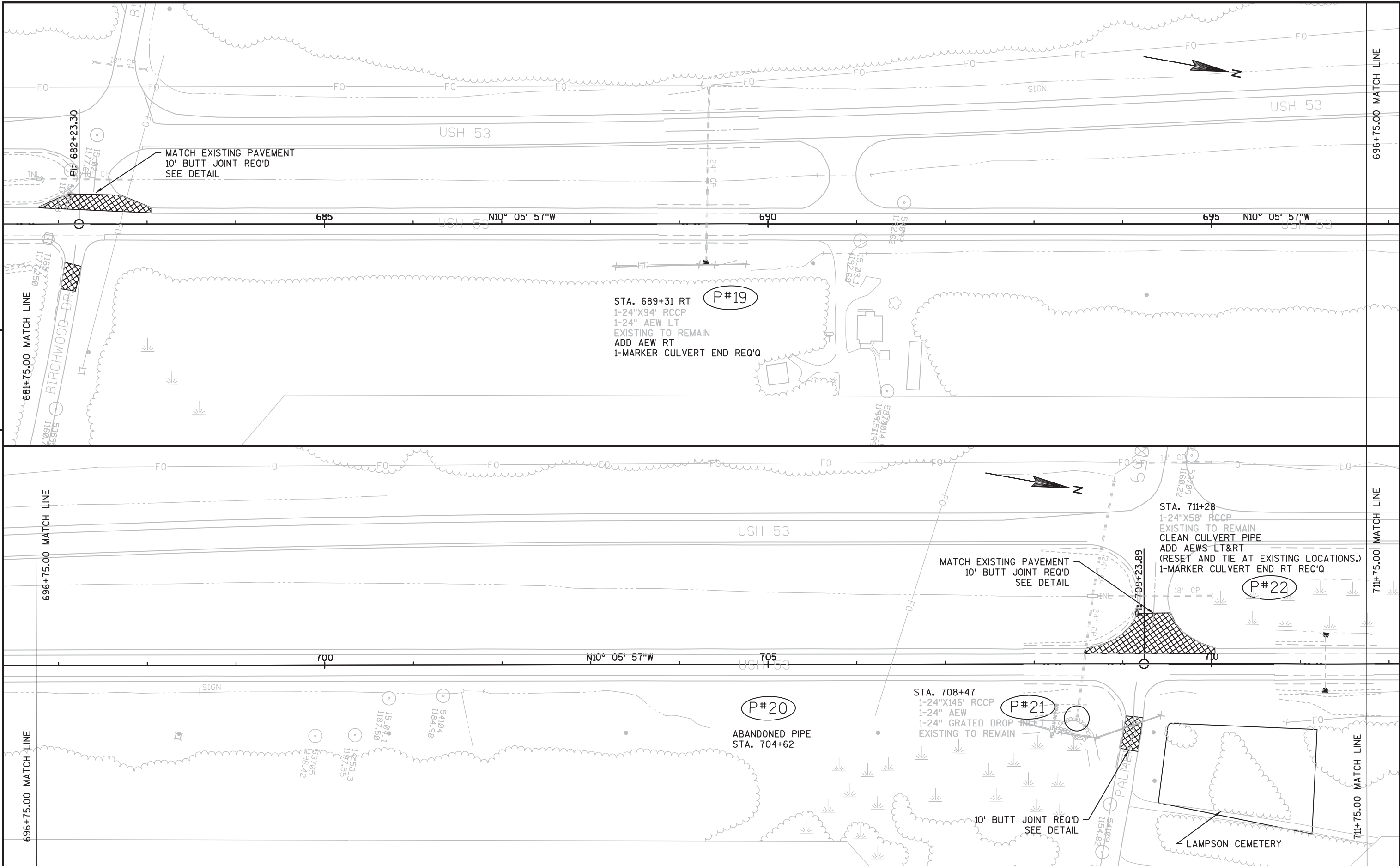
PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PLAN	SHEET	E
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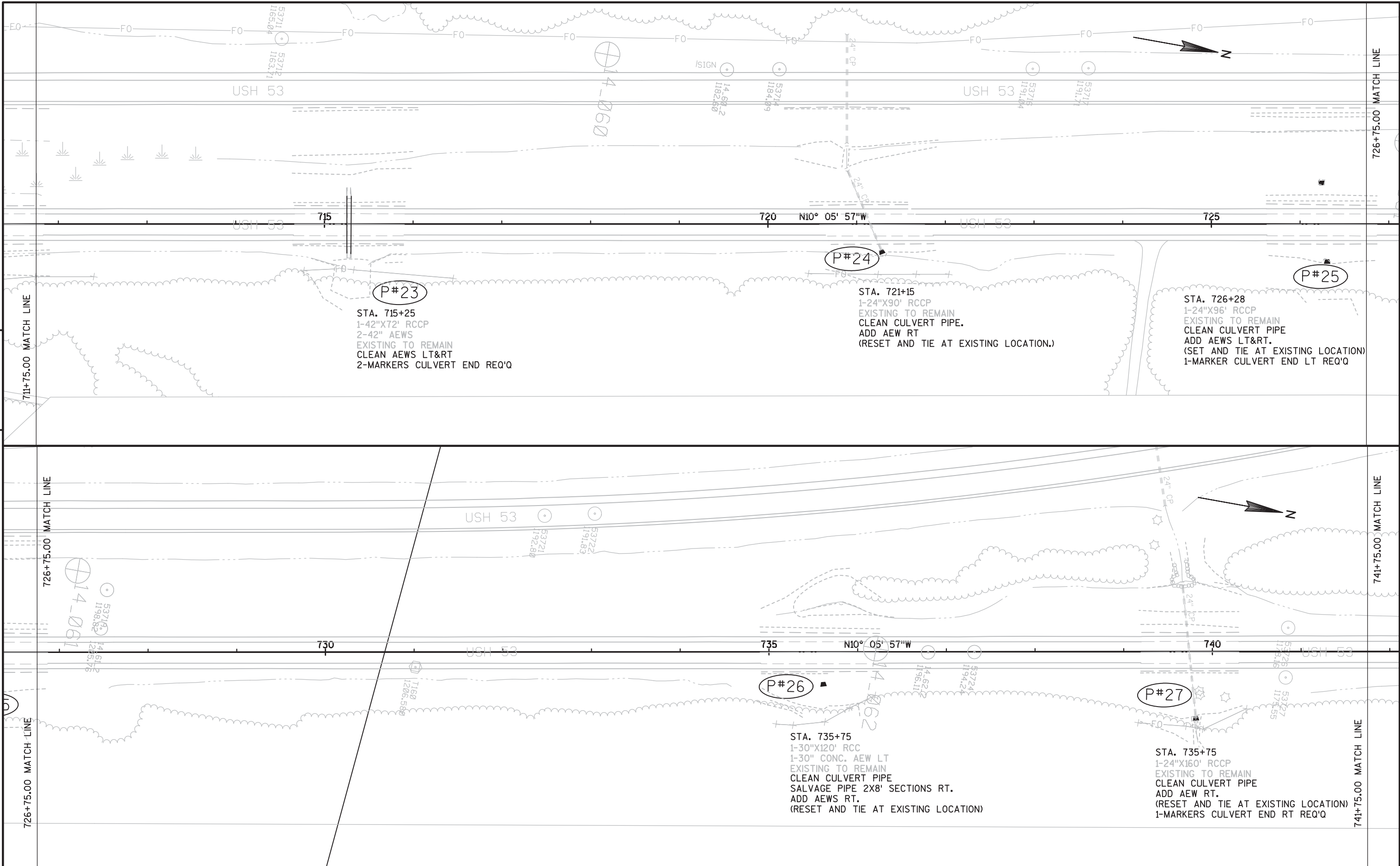
PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PLAN	SHEET	E
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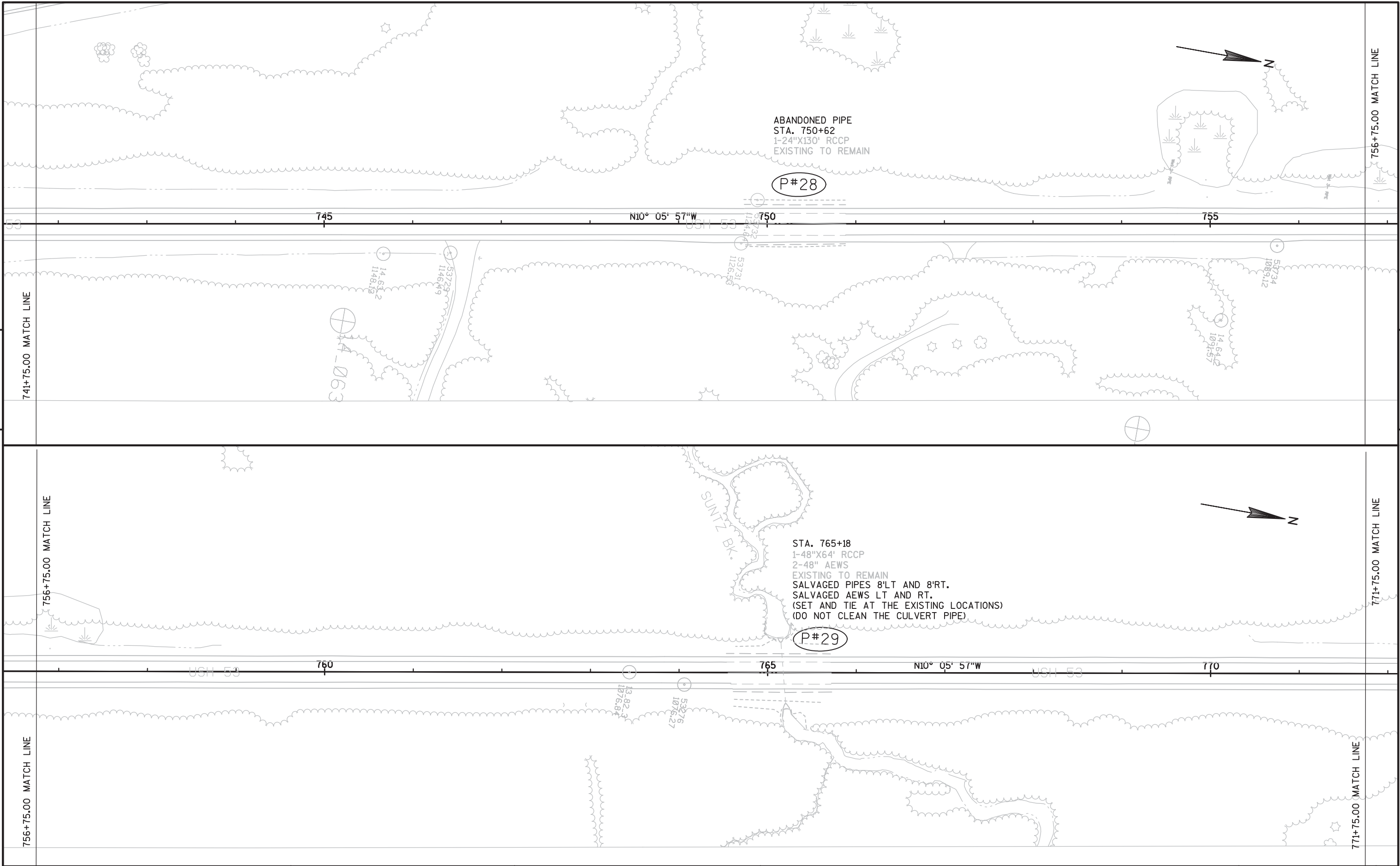
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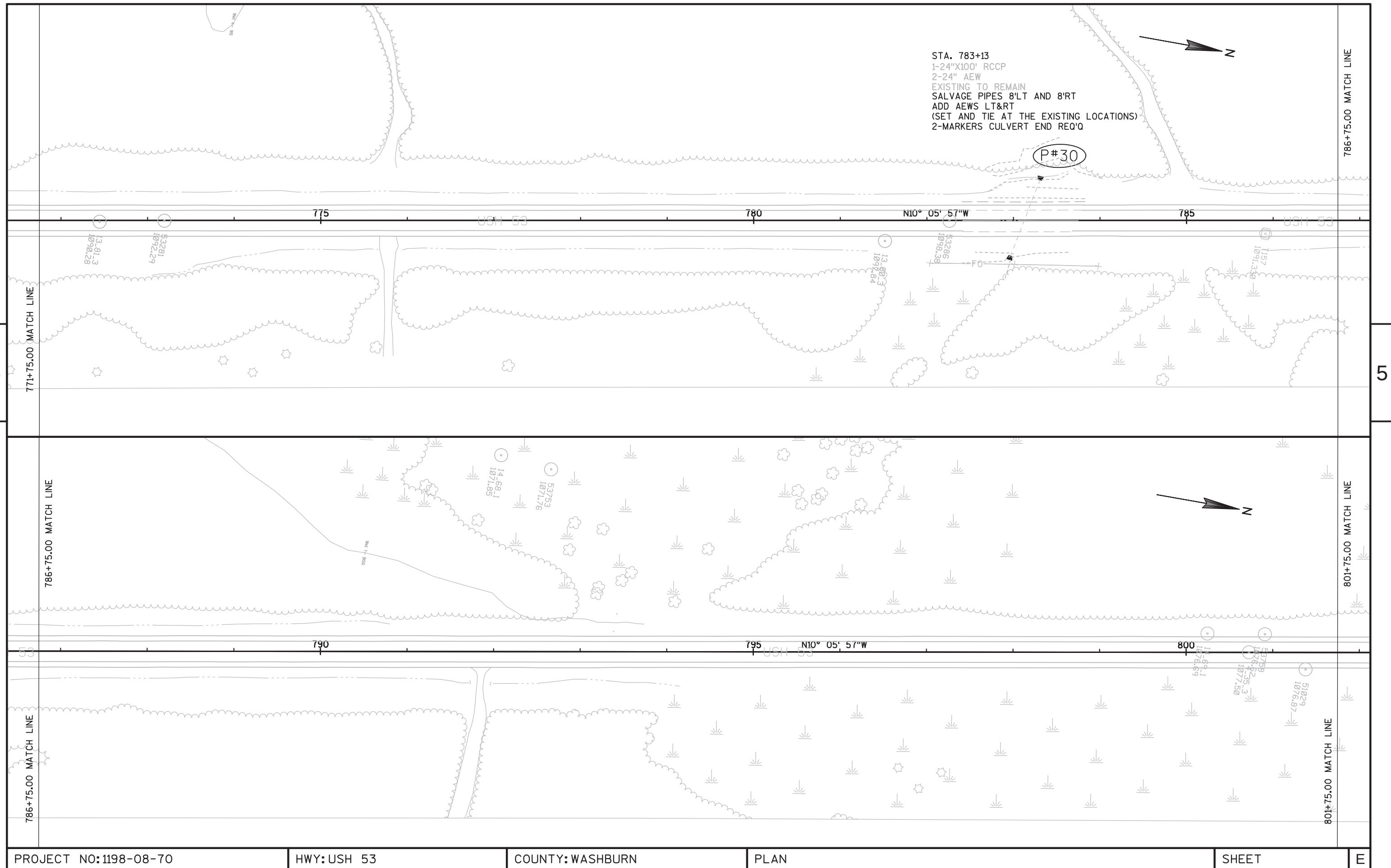
PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PLAN	SHEET	E
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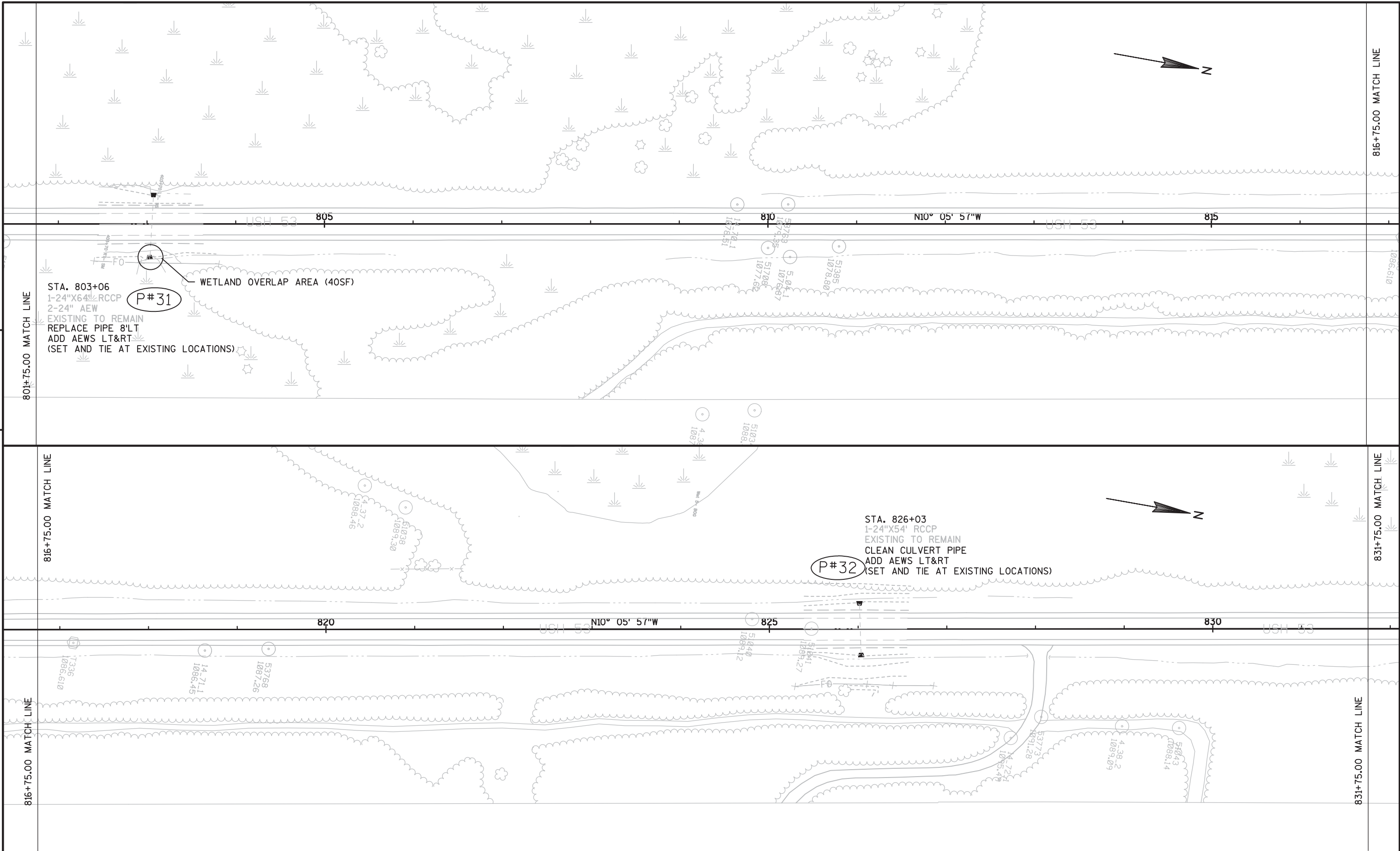


PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PLAN	SHEET	E
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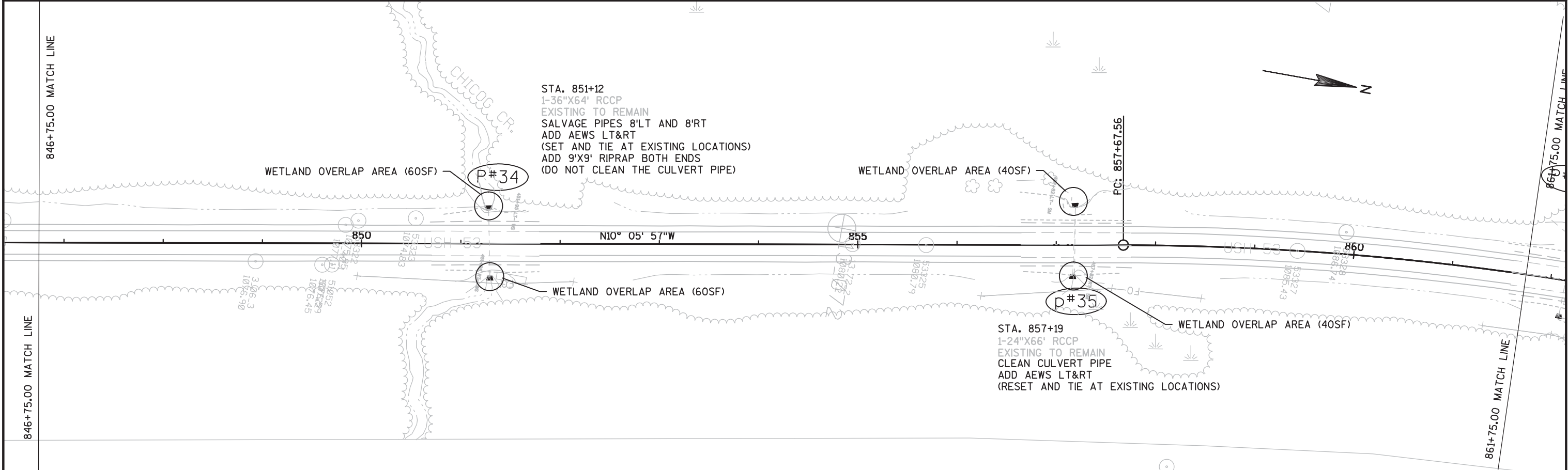
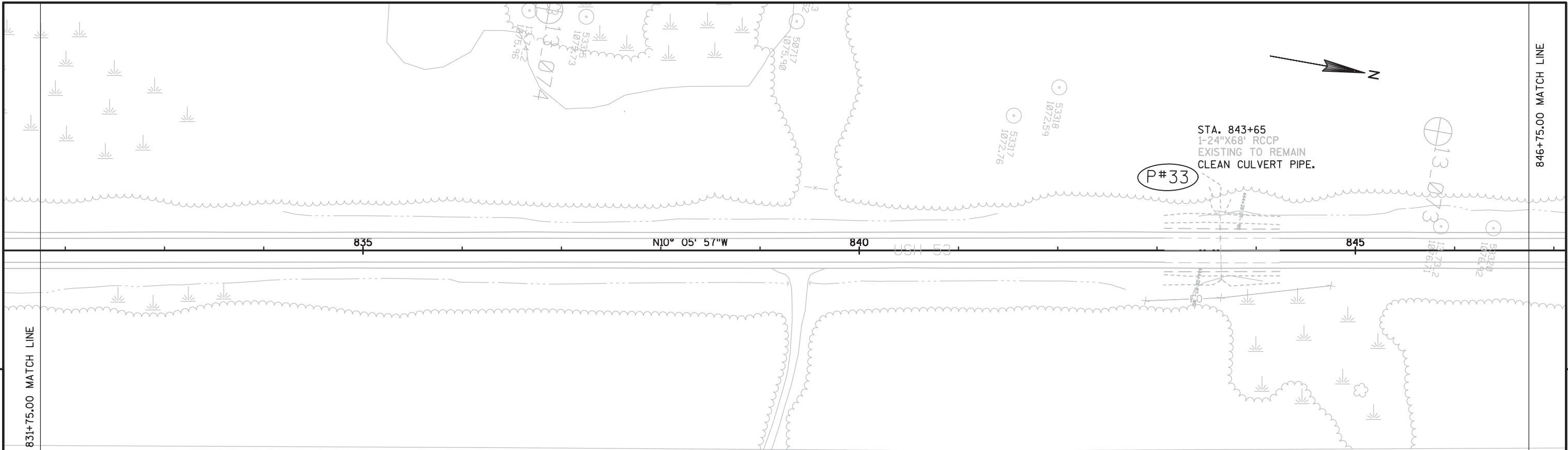


PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PLAN	SHEET	E
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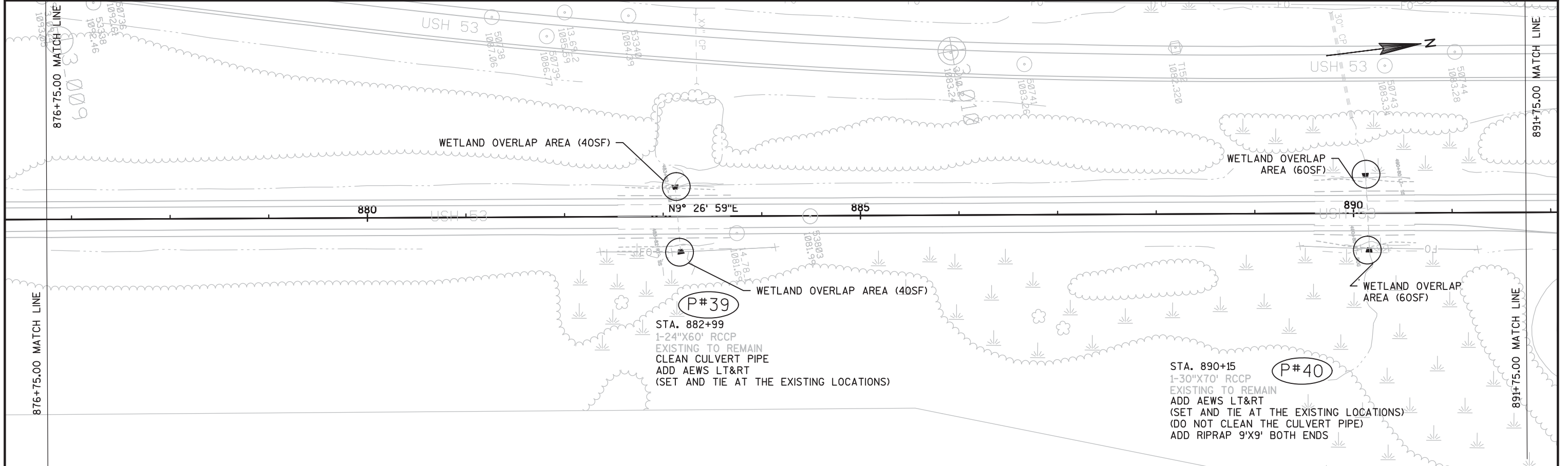
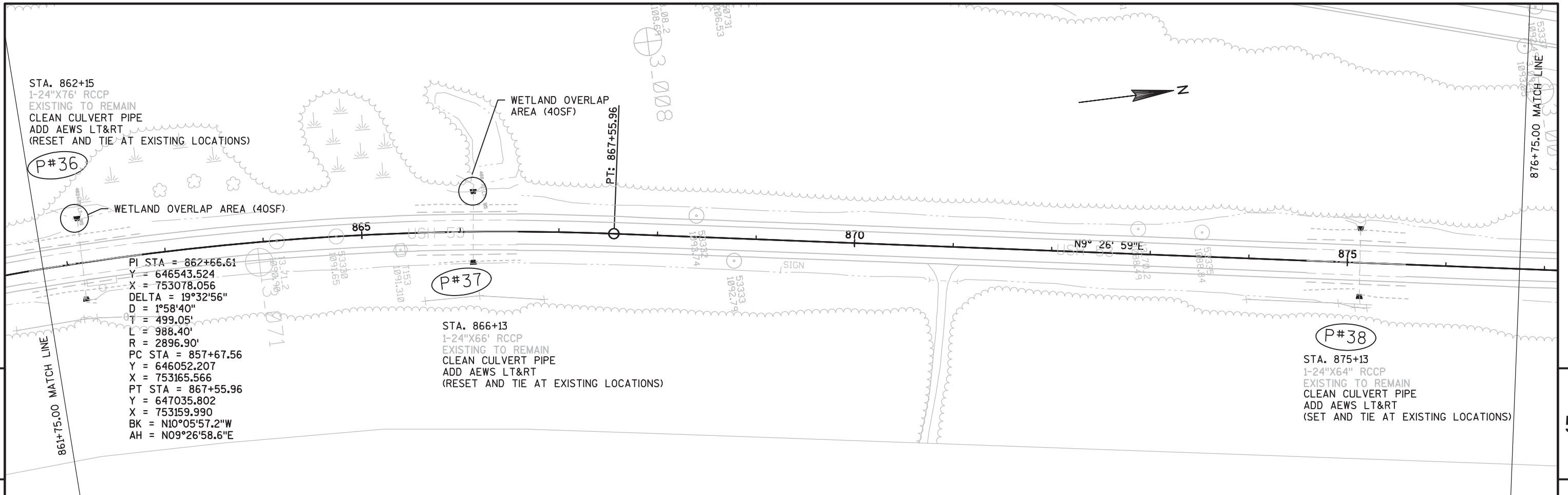




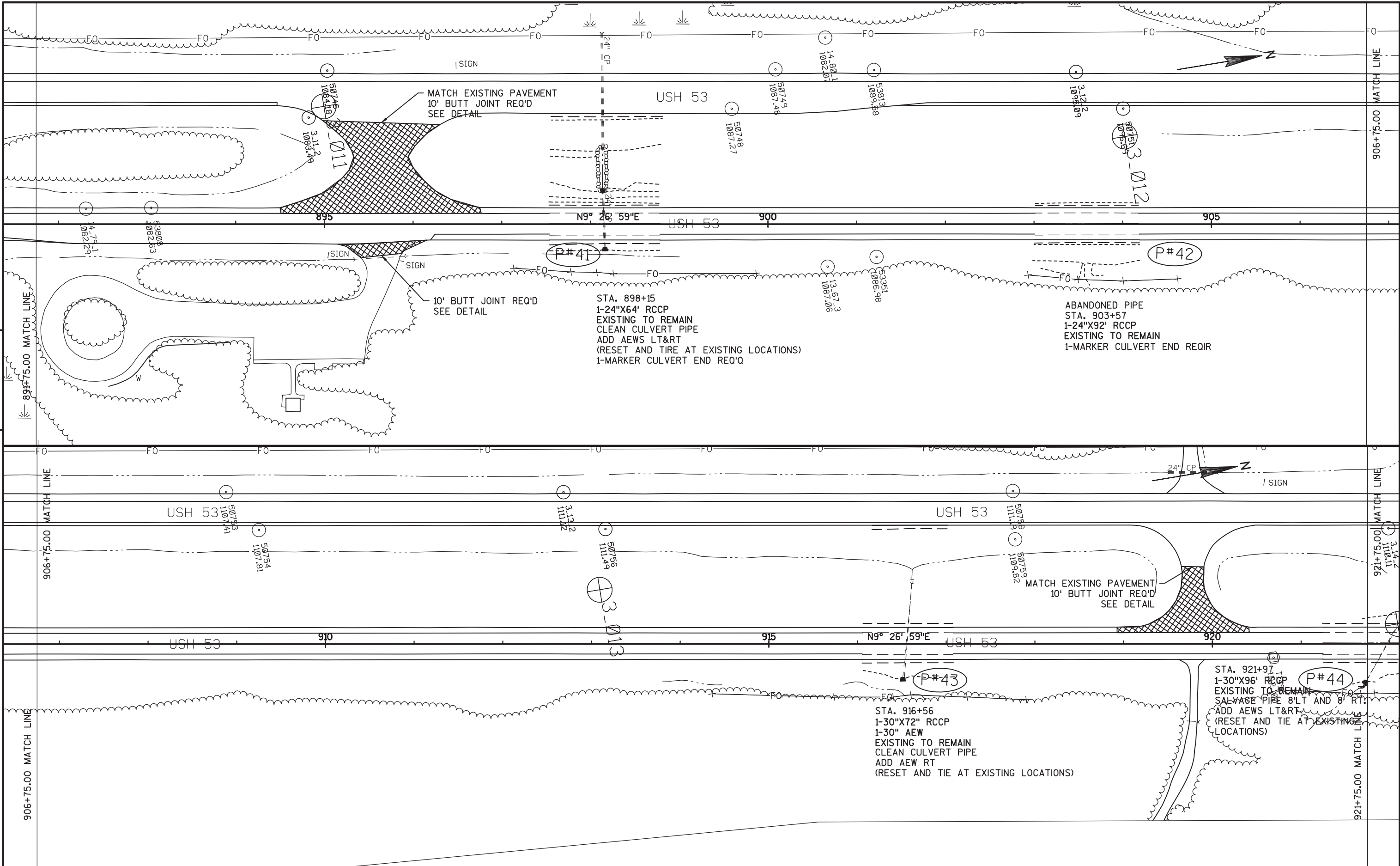
PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PLAN	SHEET	E
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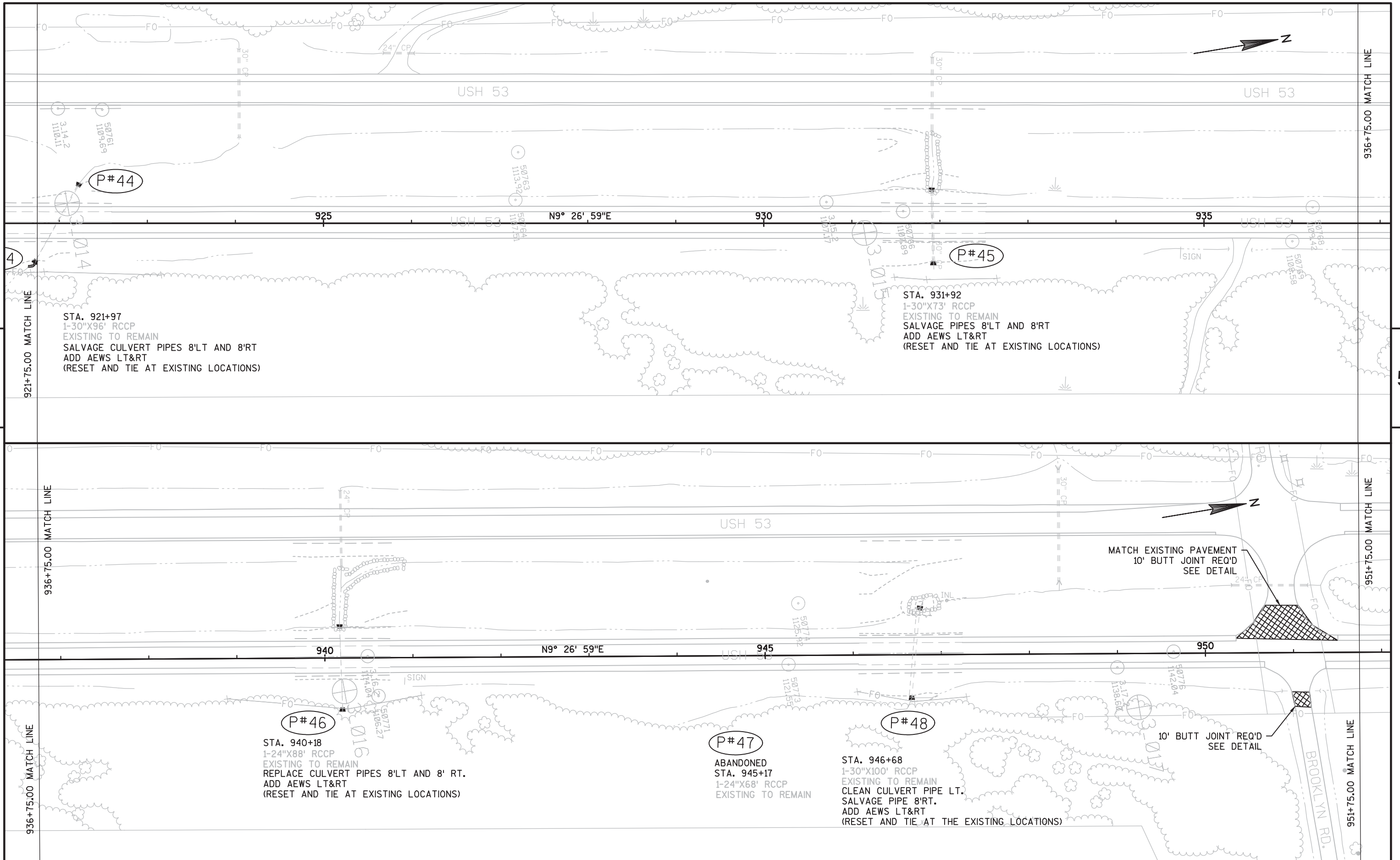
PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PLAN	SHEET	E
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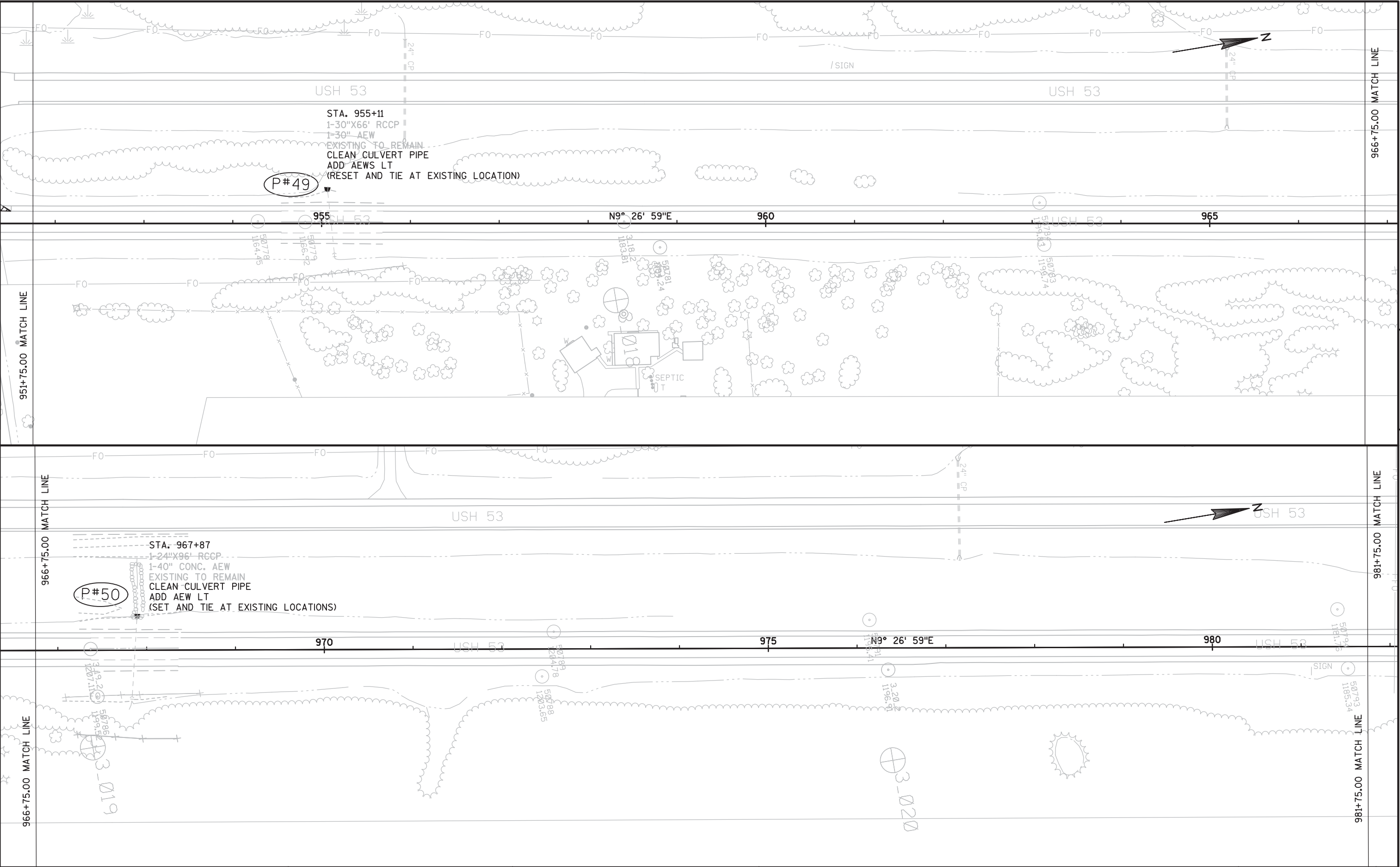
PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PLAN	SHEET	E
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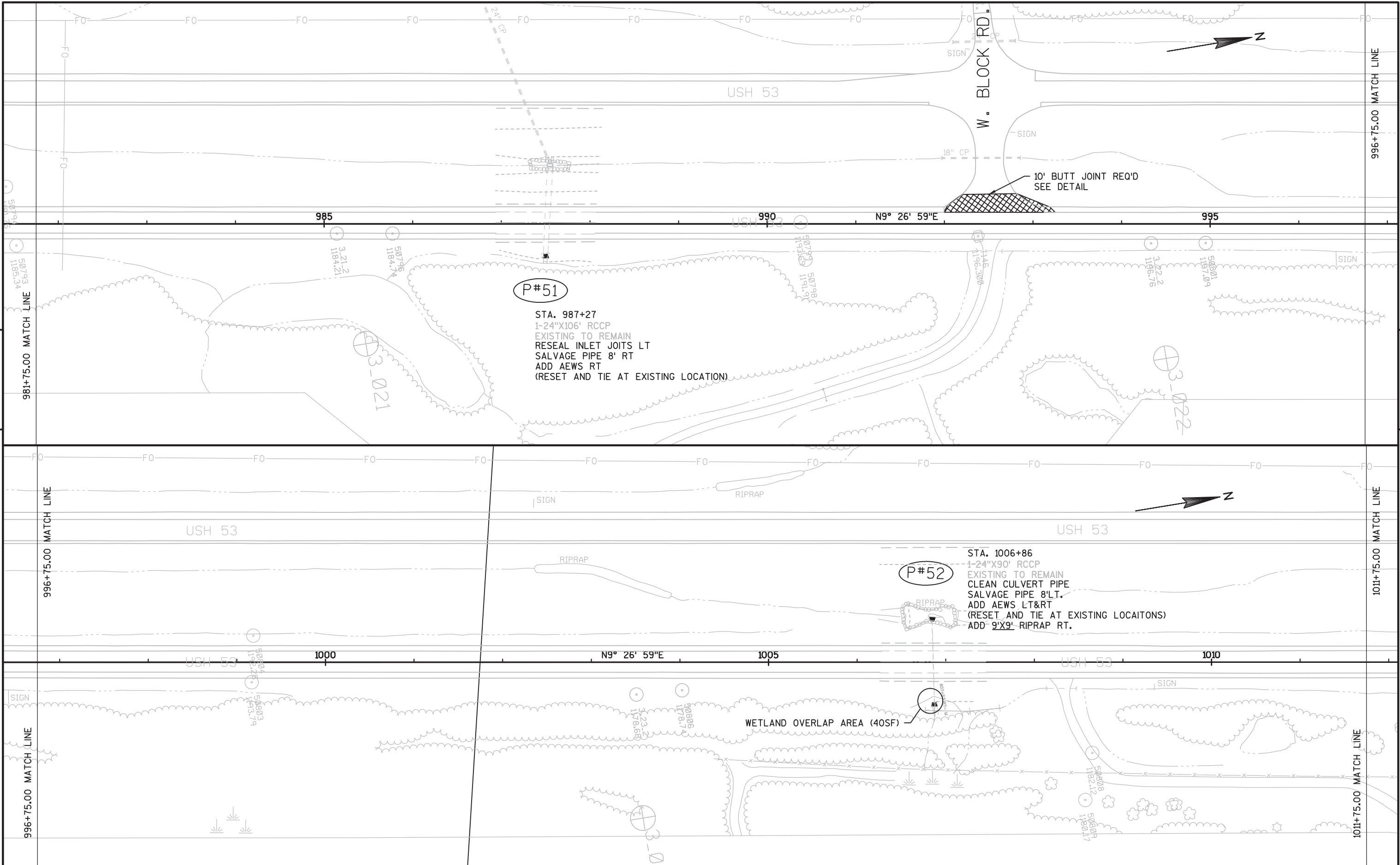
PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PLAN	SHEET	E
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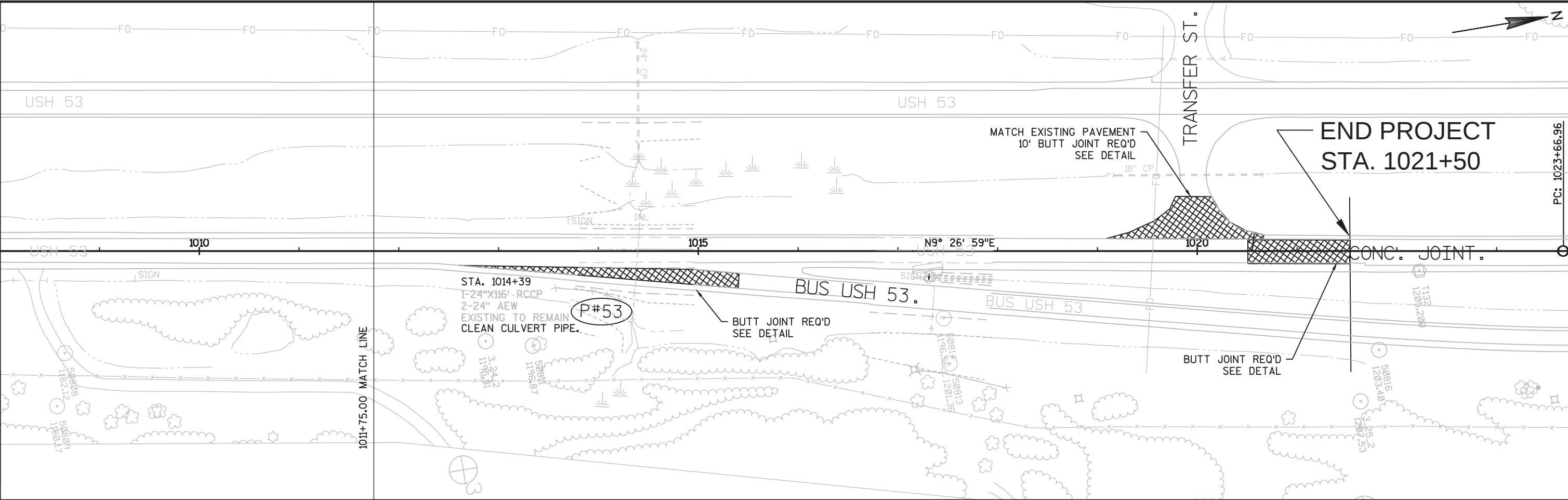
PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PLAN	SHEET	E
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PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PLAN	SHEET	E
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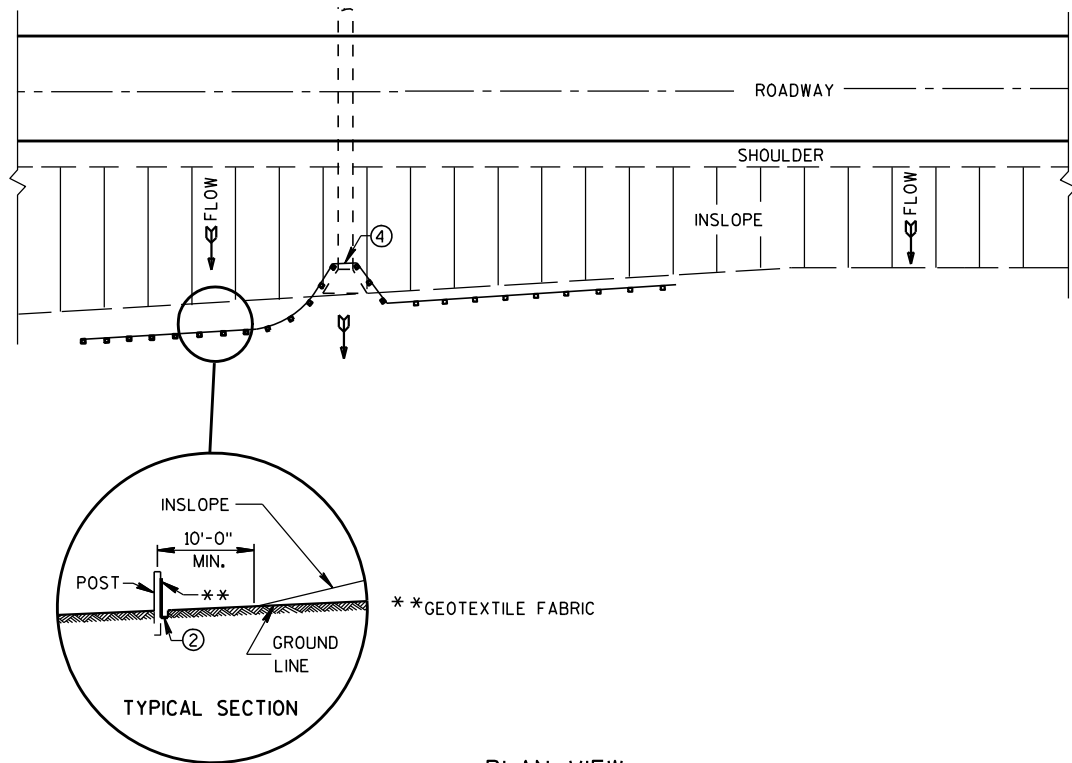


PROJECT NO:1198-08-70	HWY:USH 53	COUNTY:WASHBURN	PLAN	SHEET	E
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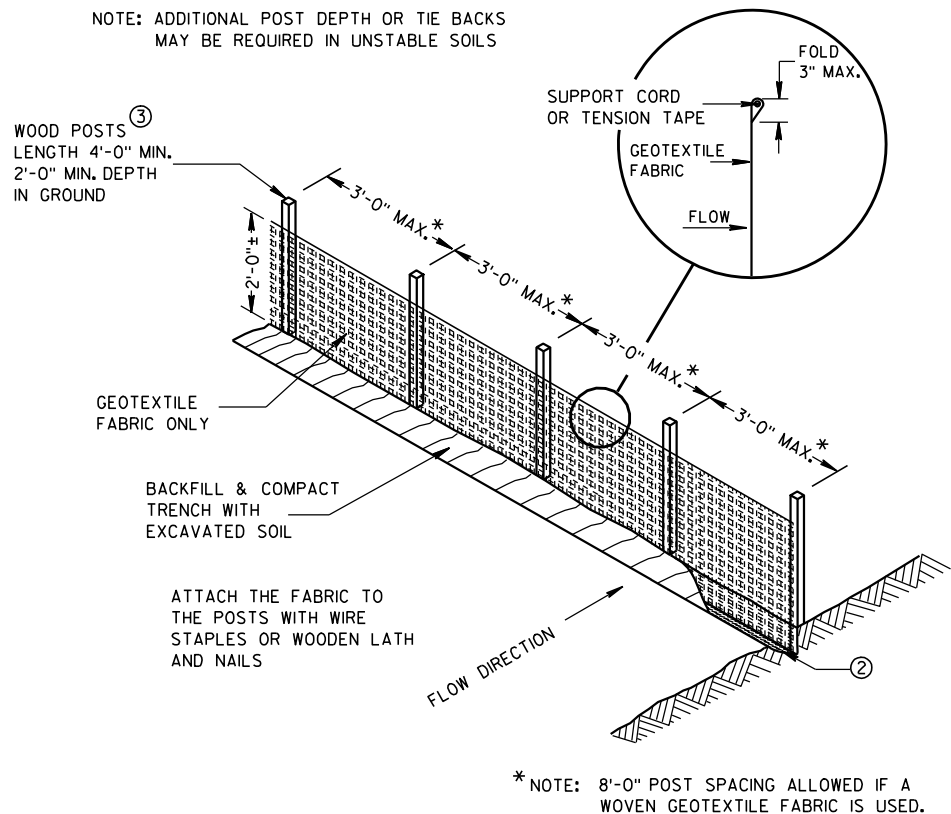


Standard Detail Drawing List

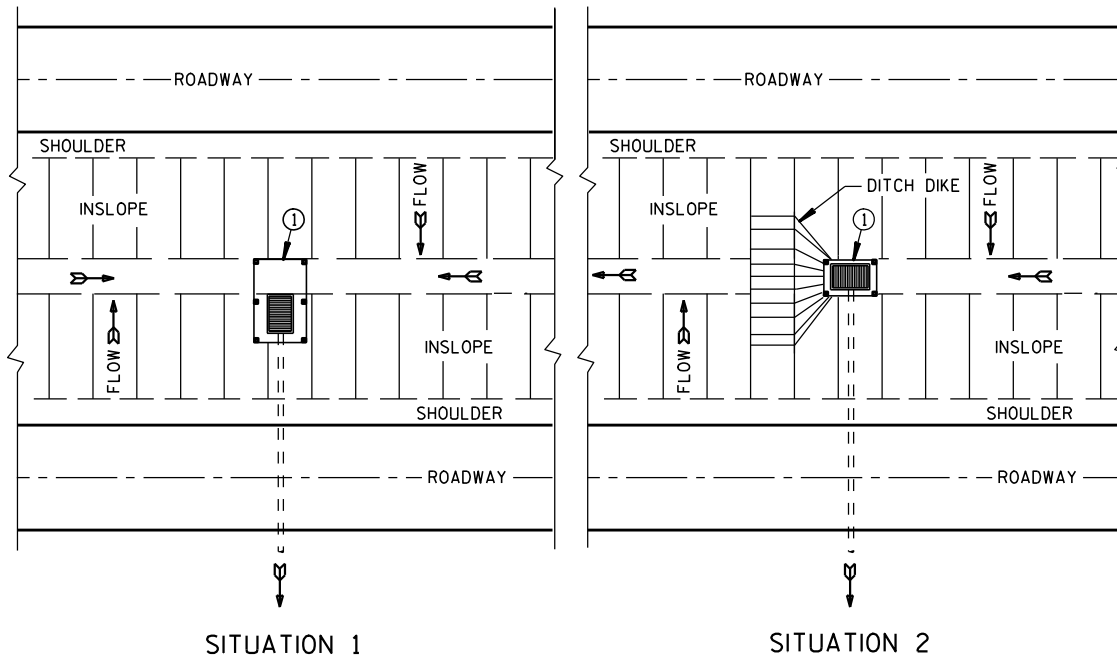
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
11A01-05	MAINTENANCE CROSSOVER FOR FREEWAYS
13A05-05A	SHOULDER RUMBLE STRIP, MILLING
13A05-05B	SHOULDER RUMBLE STRIP, MILLING
13A10-01A	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
13A10-01C	2-LANE RURAL SHOULDER RUMBLE STRIP, MILLING
15A02-09	DELINEATOR POST, DELINEATOR REFLECTOR AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15A06-02	DELINEATOR LAYOUT
15C07-13B	PAVEMENT MARKING WORDS
15C07-13C	PAVEMENT MARKING ARROWS
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C08-17B	PAVEMENT MARKING (TURN LANES)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-04C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C33-02	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D12-06B	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D15-02	TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE
15D21-04	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D29-04	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD



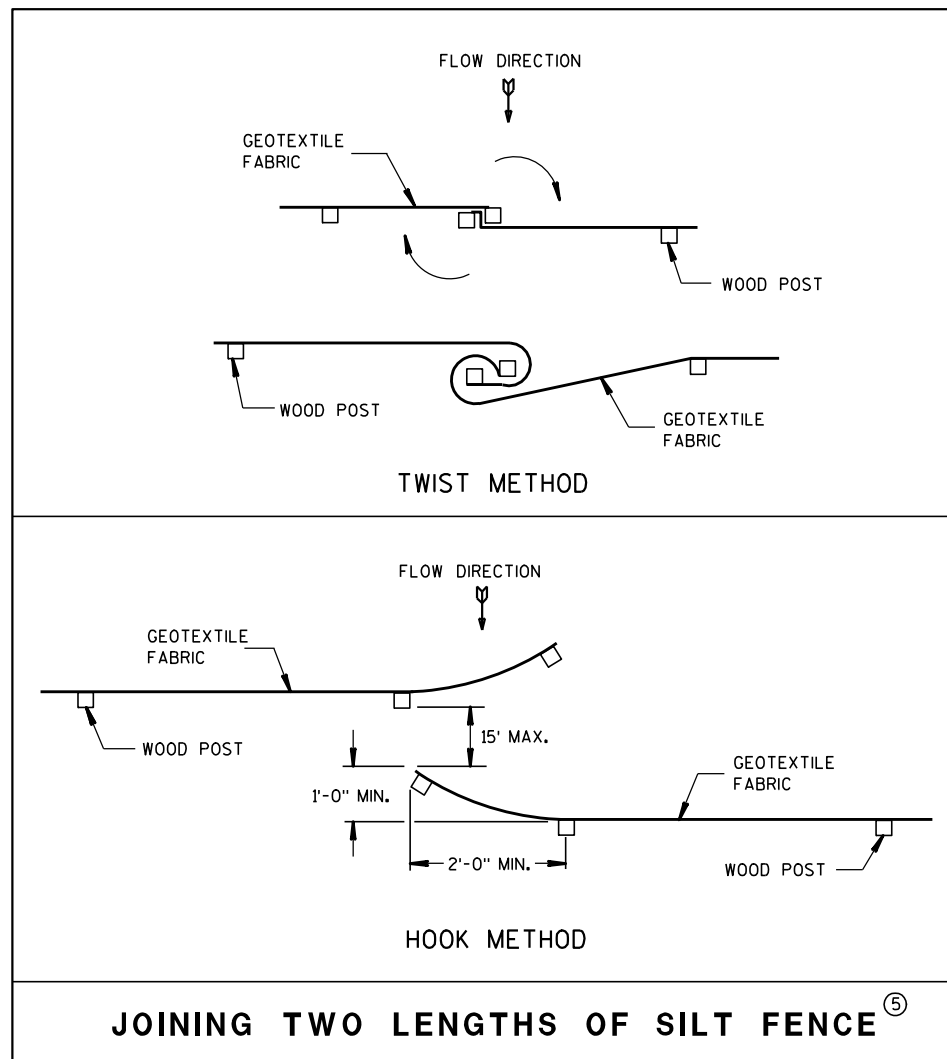
PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE



SILT FENCE



PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

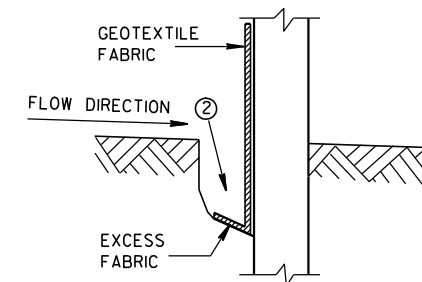


JOINING TWO LENGTHS OF SILT FENCE (5)

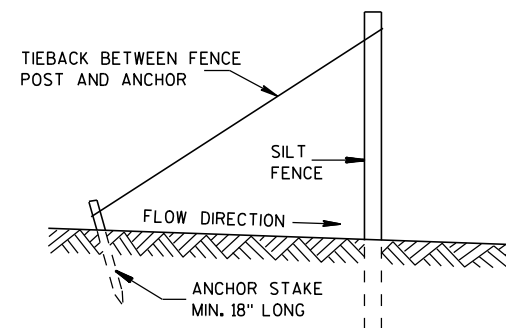
GENERAL NOTES

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 1 1/8" X 1 1/8" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

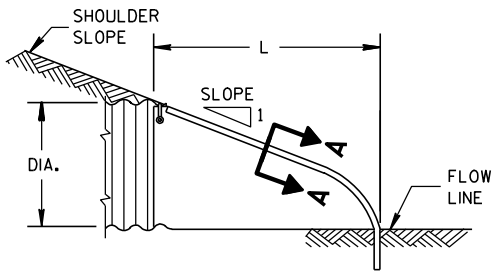
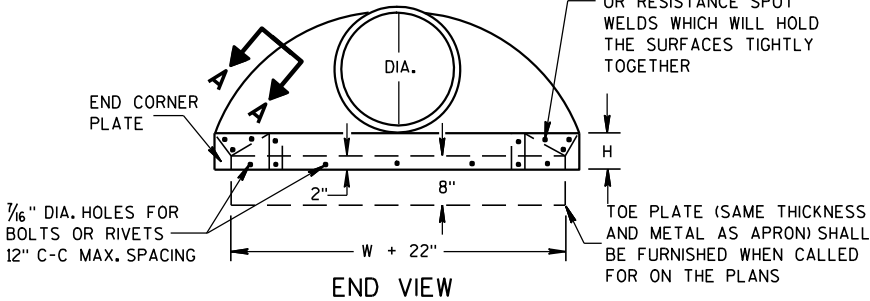
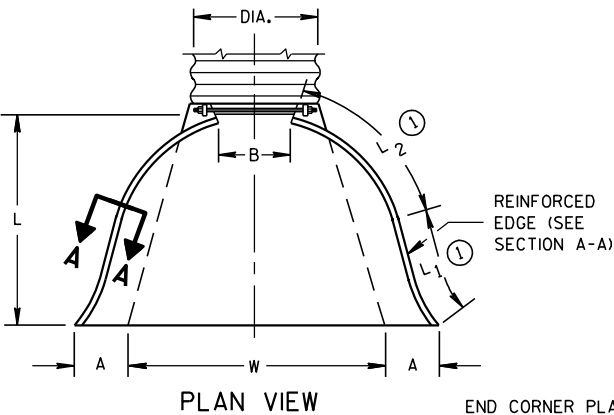
SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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

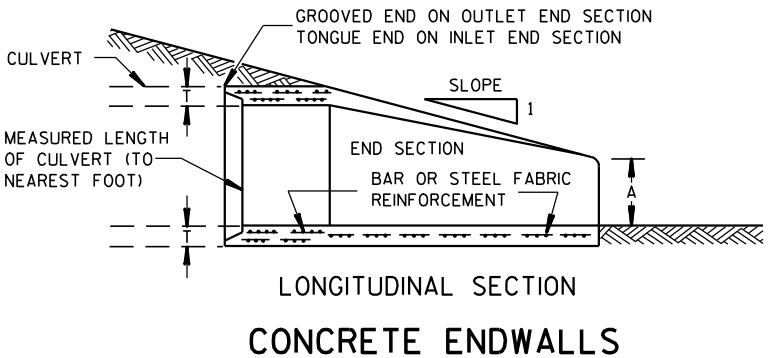
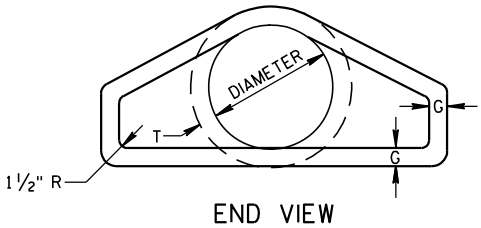
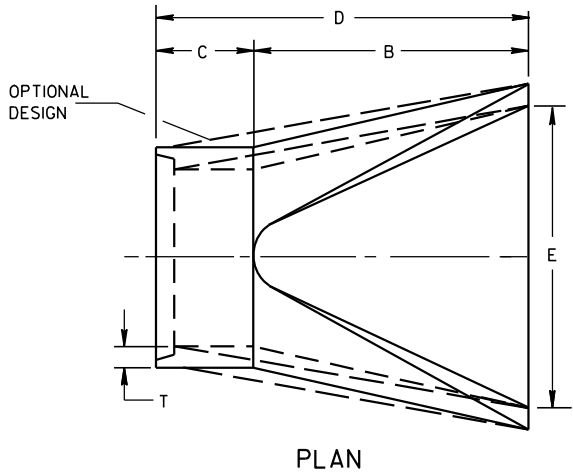
* EXCEPT CENTER PANEL
SEE GENERAL NOTES



SIDE ELEVATION
METAL ENDWALLS

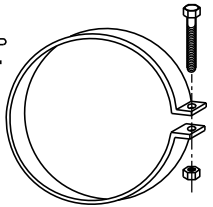
REINFORCED CONCRETE APRON ENDWALLS												
PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE				
	T	A	B	C	D	E	G					
12	2	4	24	48 1/8	72 1/8	24	2	3 to 1				
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1				
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1				
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1				
24	3	9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

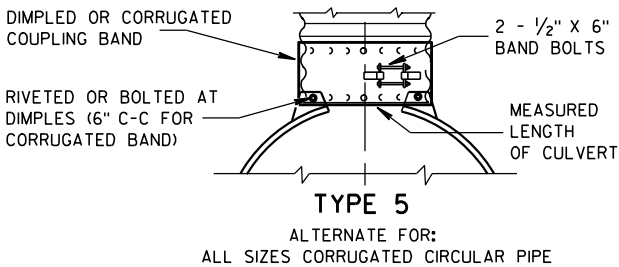
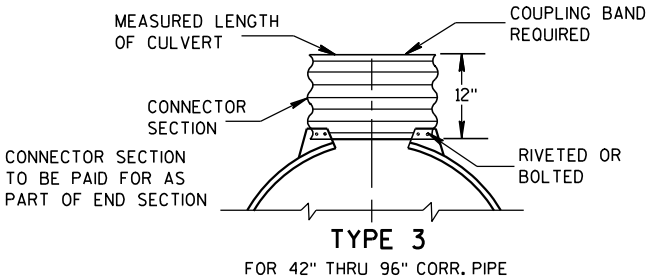
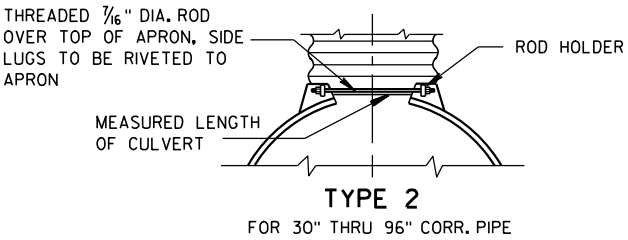
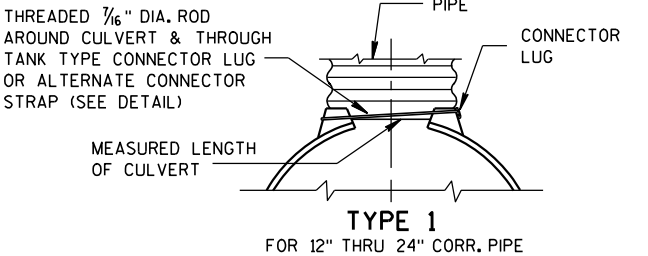


LONGITUDINAL SECTION
CONCRETE ENDWALLS

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



ALTERNATE FOR TYPE 1 CONNECTION
END SECTION CONNECTOR STRAP



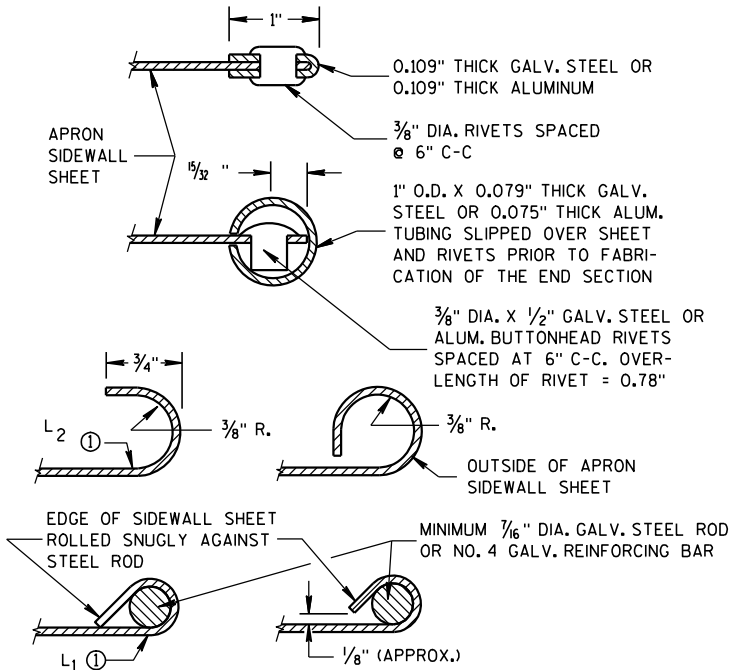
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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

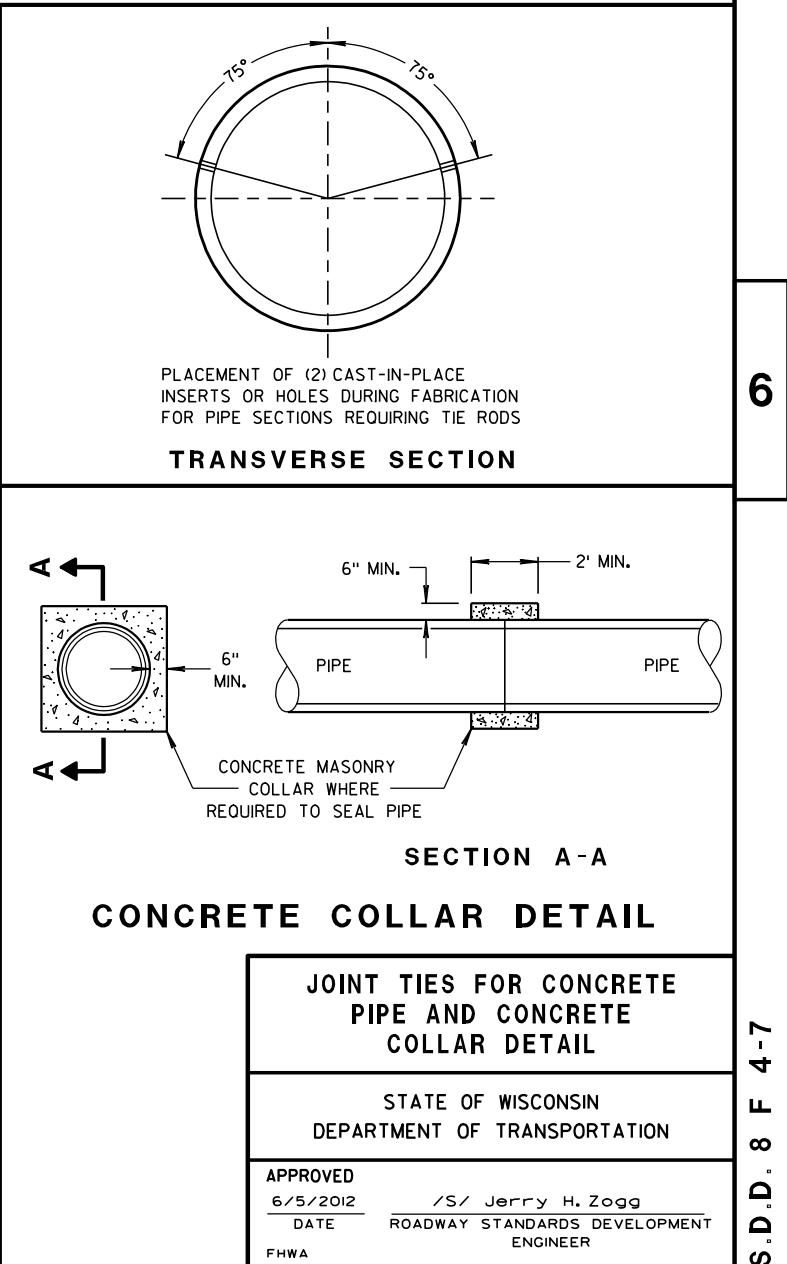
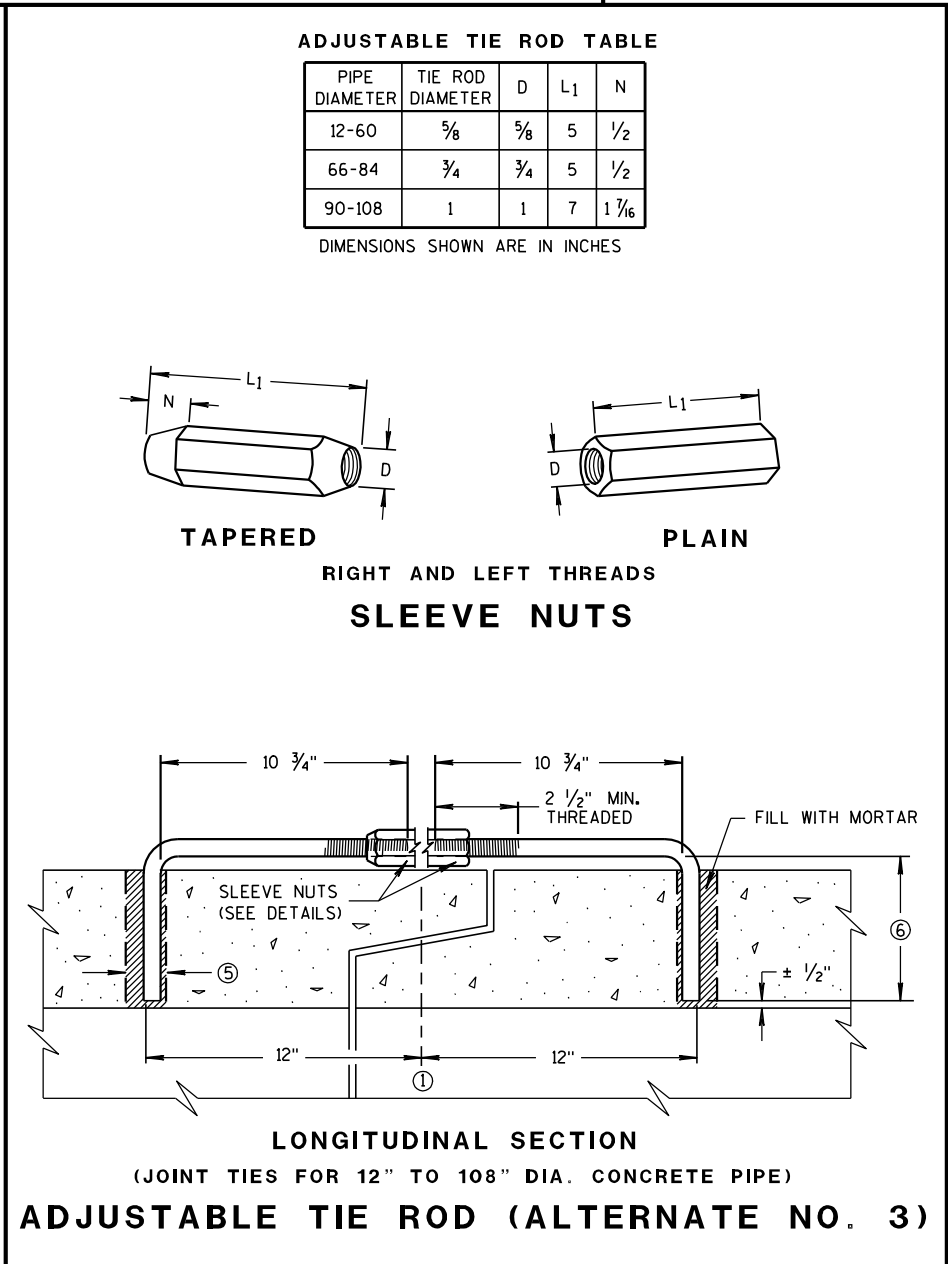
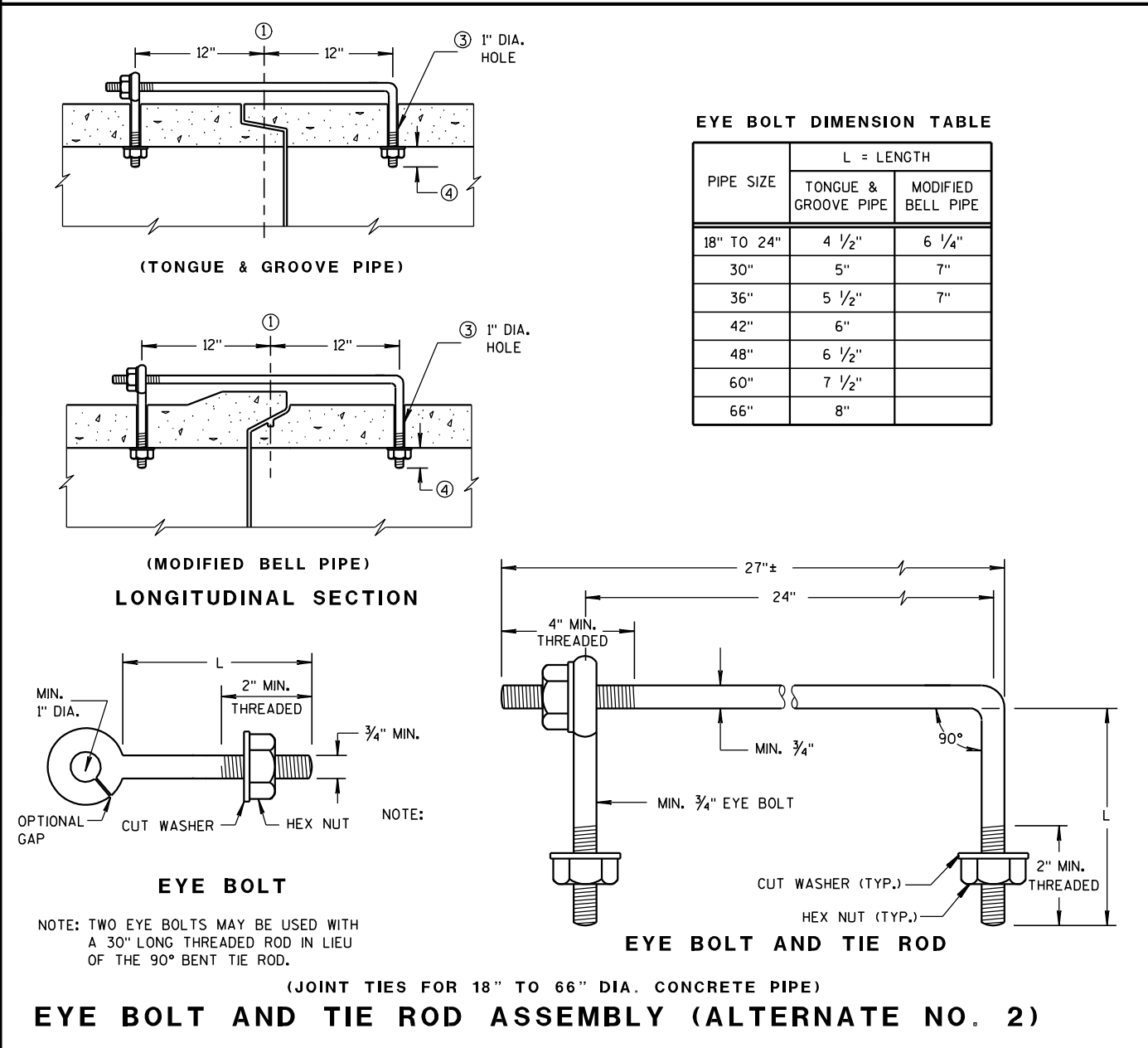
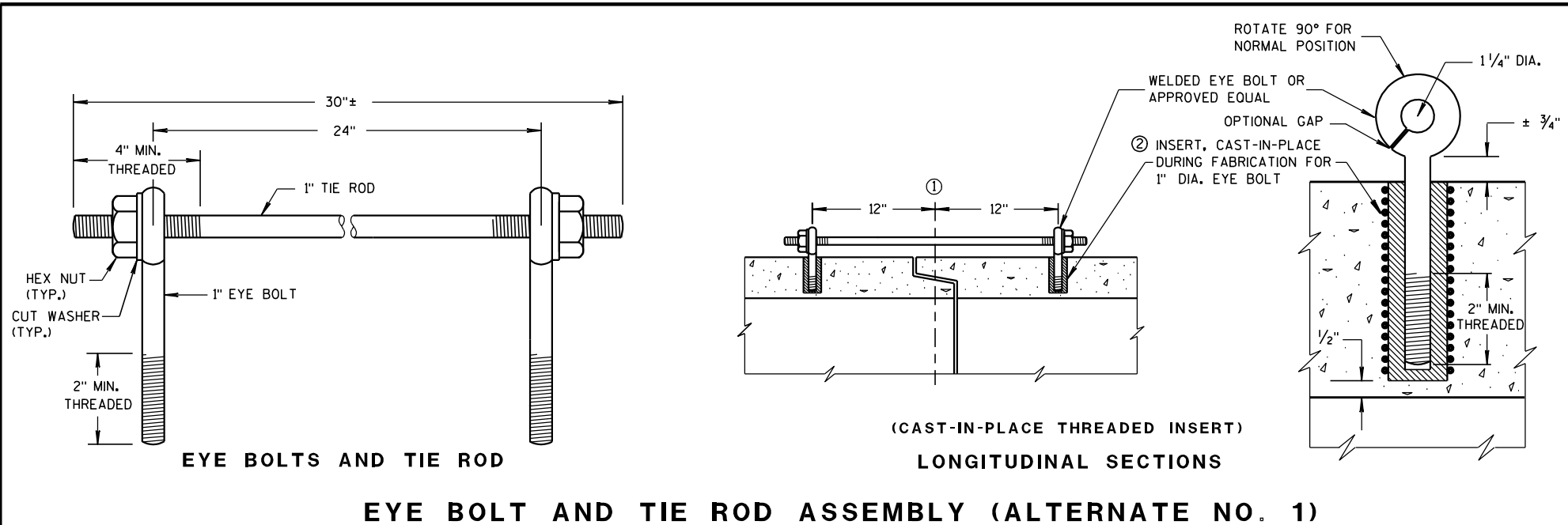


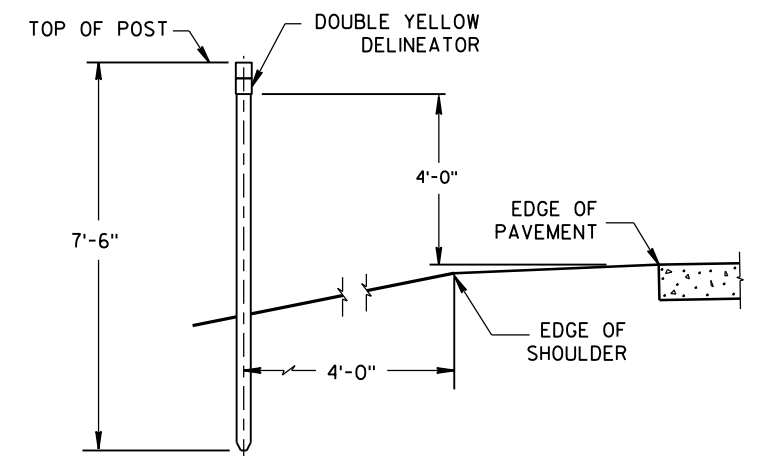
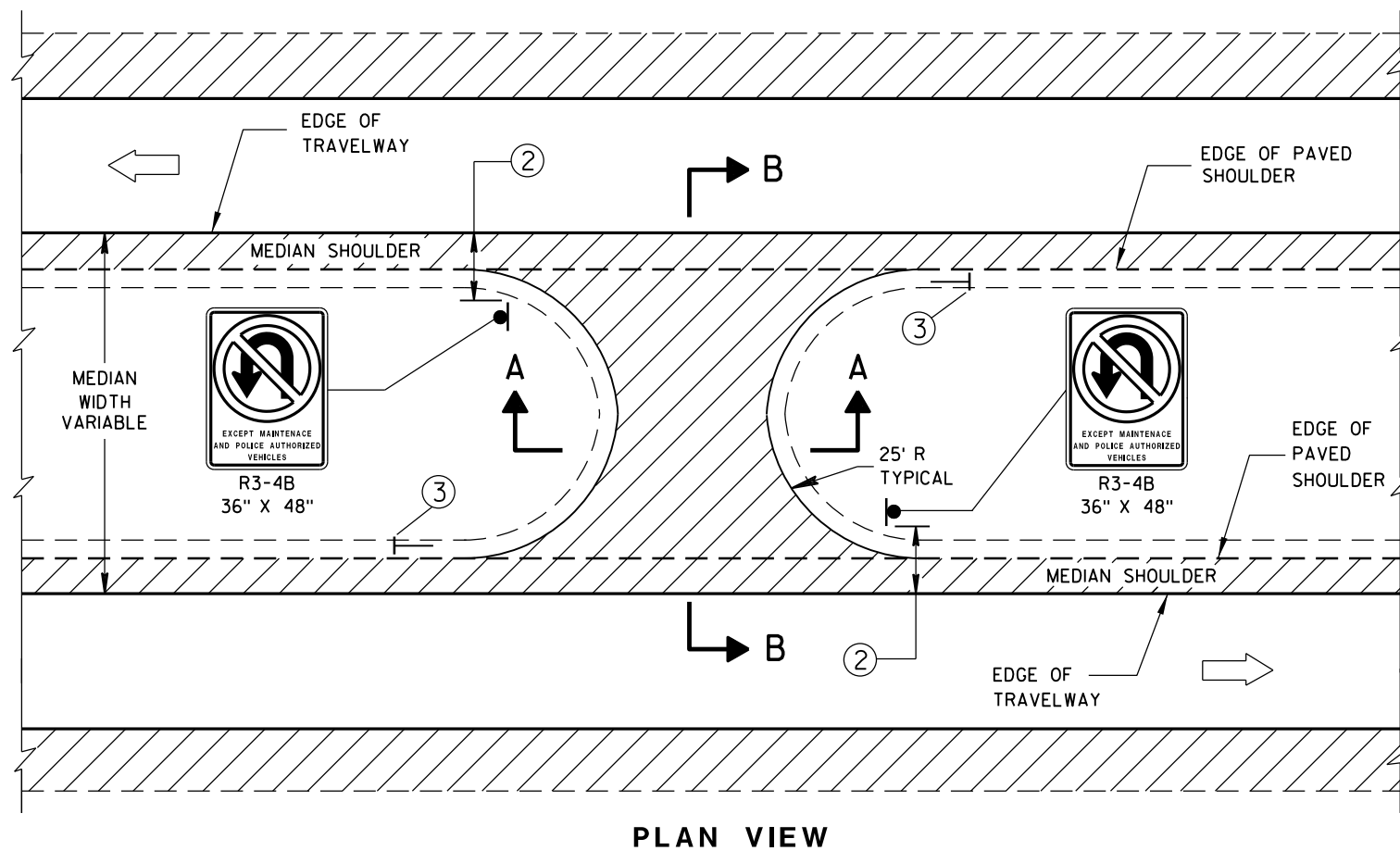
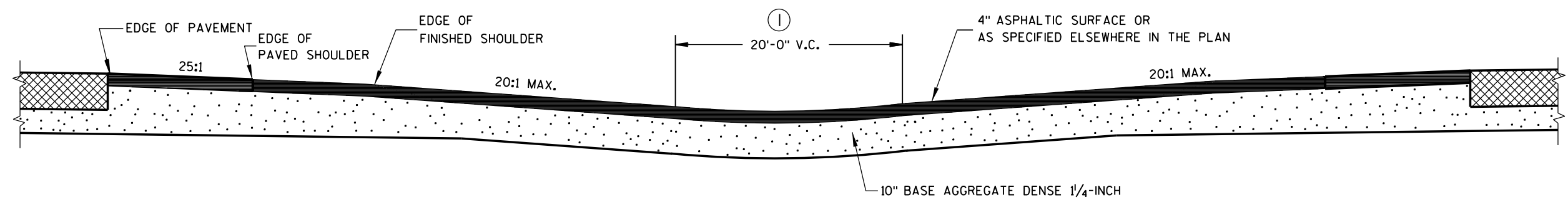
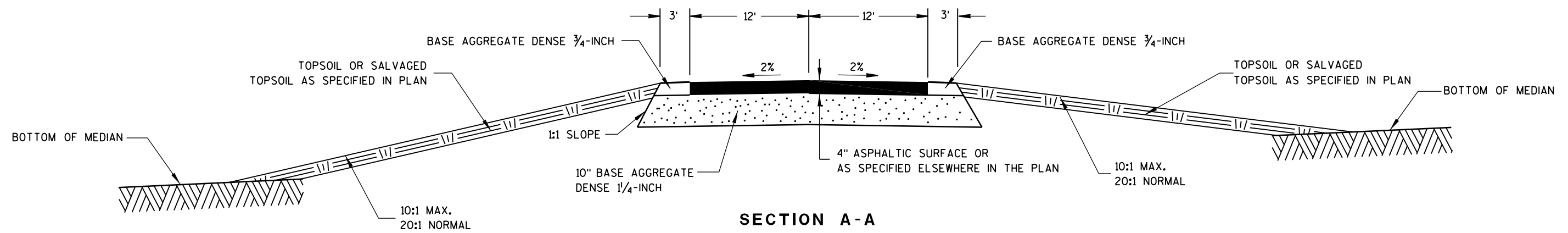
SECTION A-A

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	



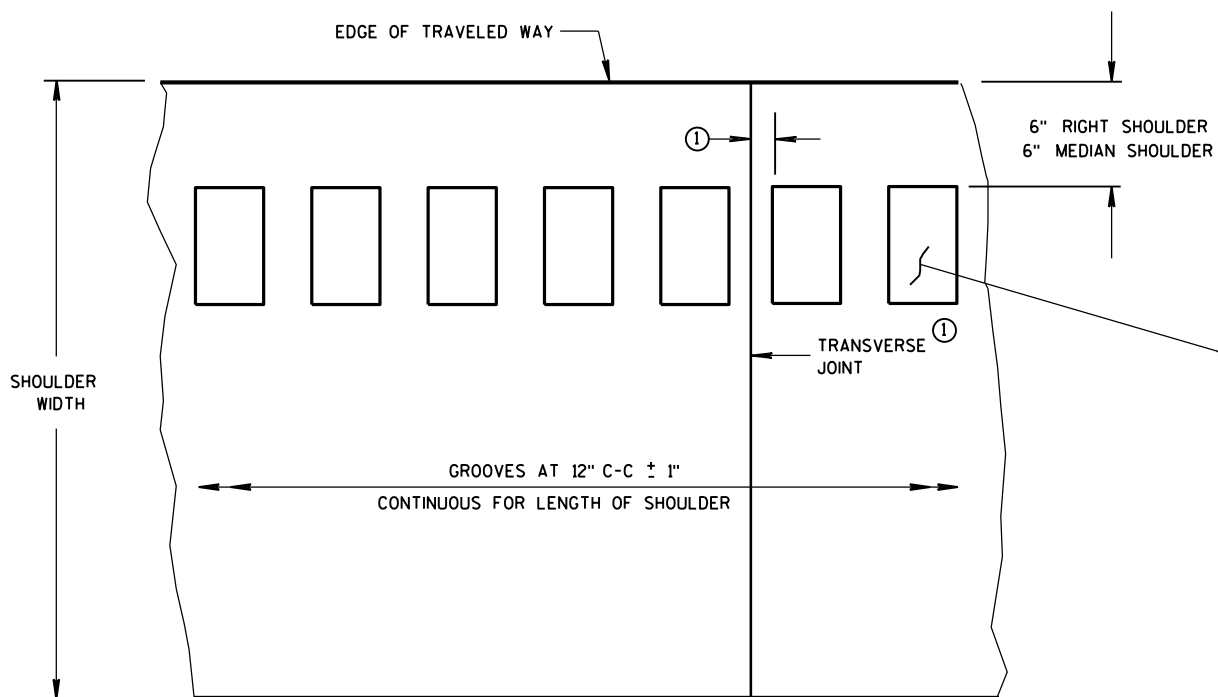


GENERAL NOTES

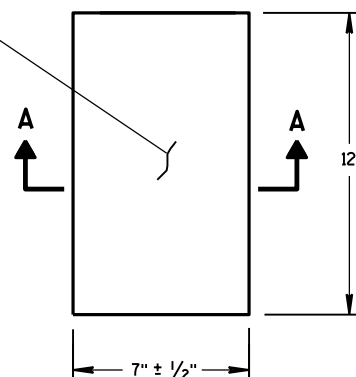
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① ADJUST VERTICAL CURVE LOCATION Laterally to maintain 20:1 max.
- ② Signing details and specifications are provided elsewhere in the contract.
- ③ Install double yellow delineator. See standard detail drawing 15A2.

MAINTENANCE CROSSOVER FOR FREEWAYS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED <u>8/2013</u> DATE	<u>/s/ Jerry H. Zogg</u> ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	



PLAN VIEW
SHOULDER WITH GROOVES



PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

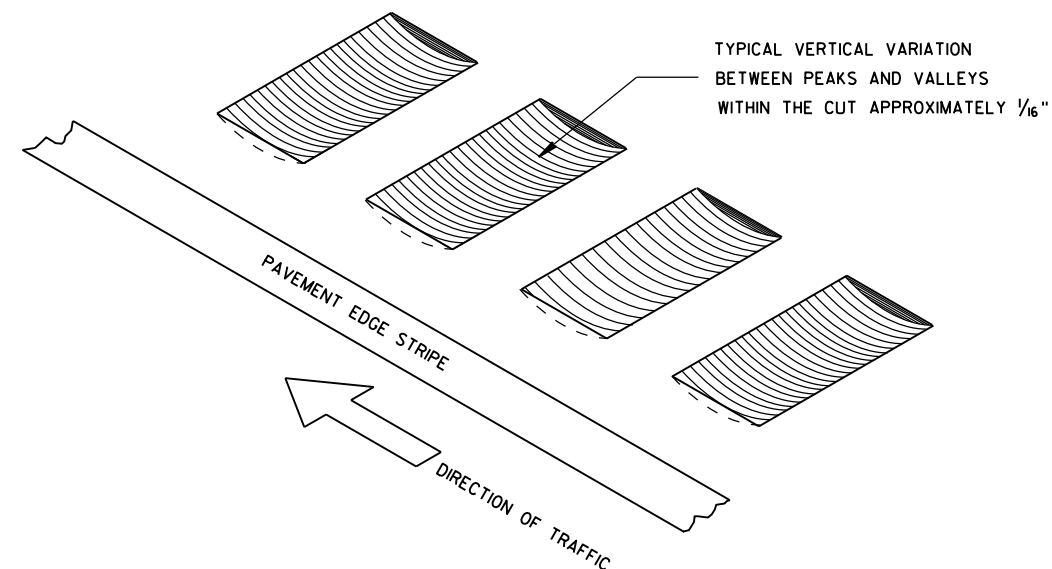
GENERAL NOTES

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

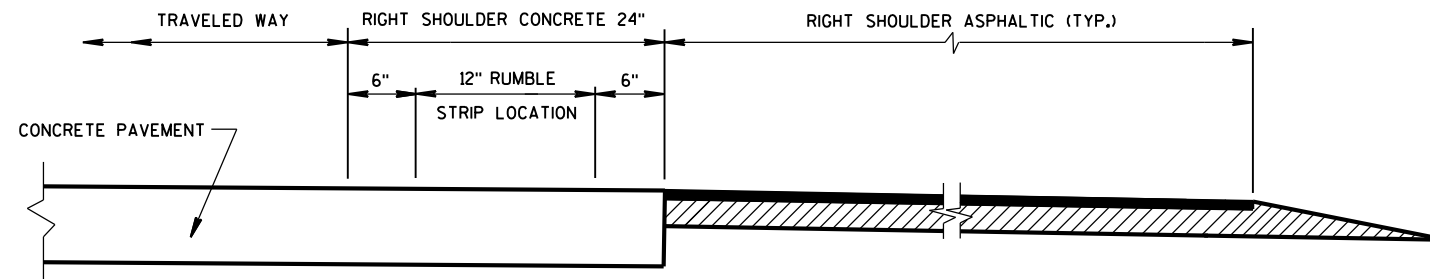
RUMBLE STRIPS ON EXPRESSWAYS

DO NOT INSTALL RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL DRIVEWAYS, PRIVATE DRIVEWAYS OR ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, BRIDGE DECKS, BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSING. THE ATTACHED STANDARD DETAIL DRAWING SHOWS THE LOCATION OF THE RUMBLE STRIPS AT INTERCHANGE AREAS.

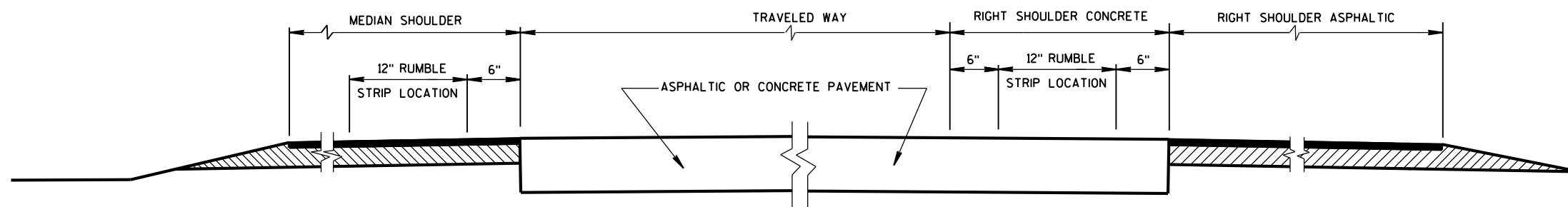
① CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



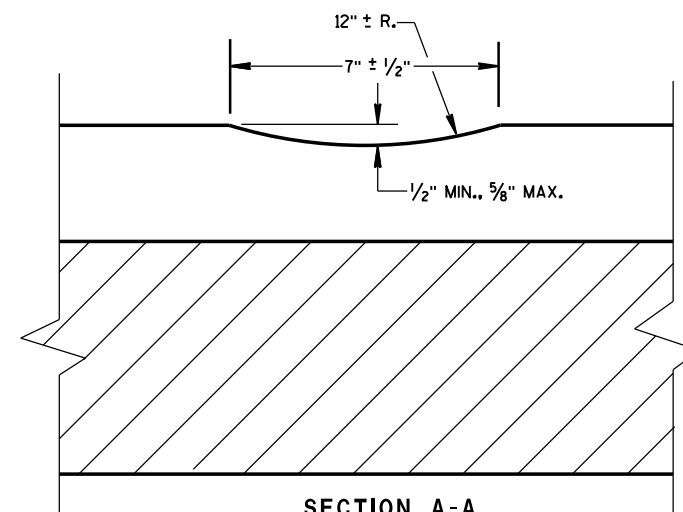
ISOMETRIC



SECTION VIEW
(CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)

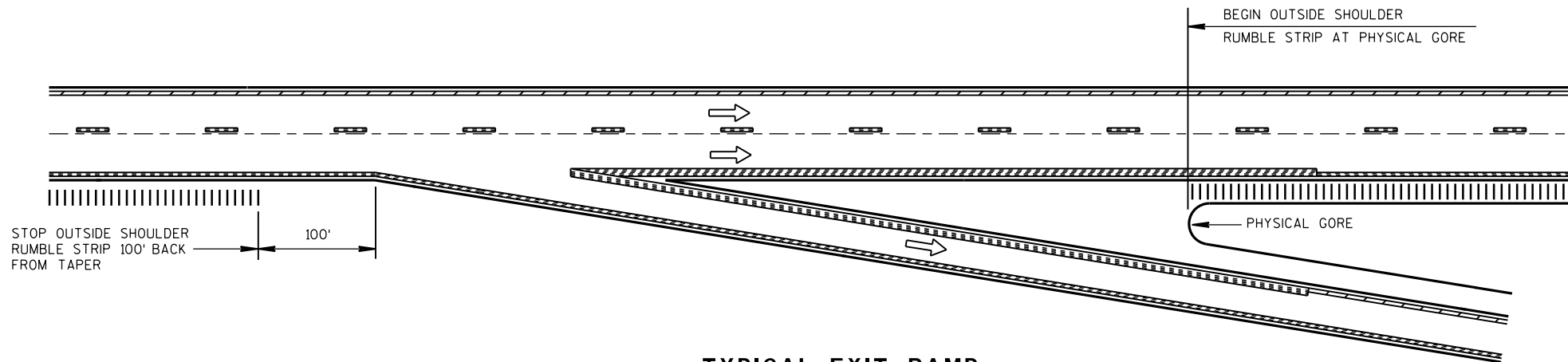


SECTION VIEW
TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS
IN RURAL DIVIDED HIGHWAYS
(ONE ROADWAY IS SHOWN)



SHOULDER RUMBLE STRIP,
MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



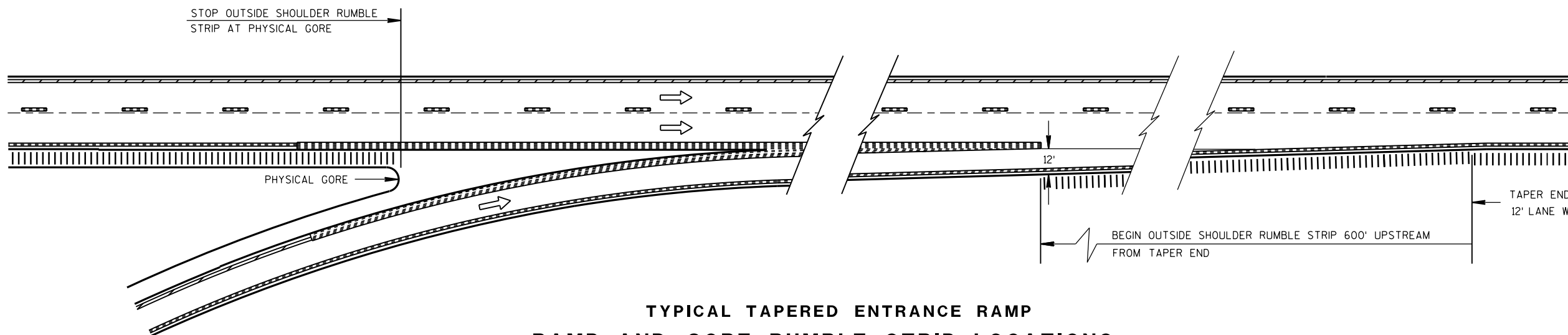
TYPICAL EXIT RAMP

NOTES:

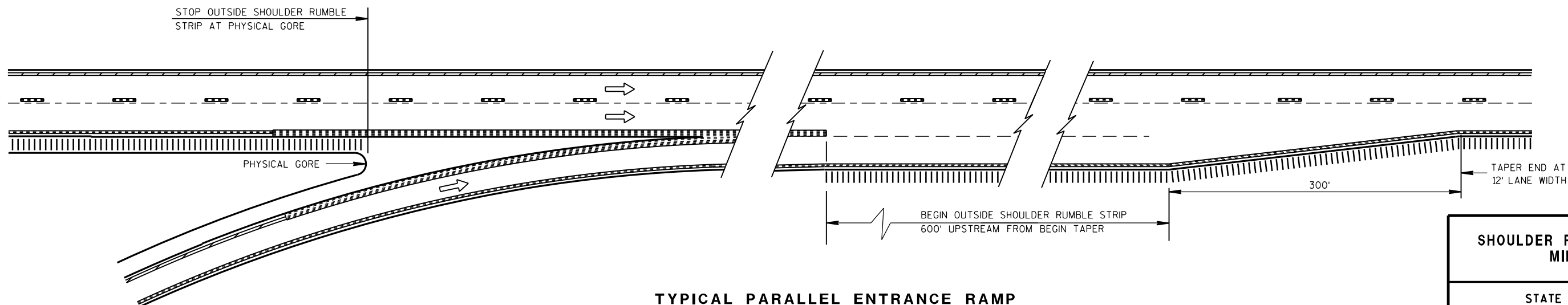
NO RUMBLE STRIP ON EXIT, DIRECTIONAL, OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

NOTE:
ARROW SYMBOL (→)
SHOWS DIRECTION OF TRAVEL



**TYPICAL TAPERED ENTRANCE RAMP
RAMP AND GORE RUMBLE STRIP LOCATIONS**



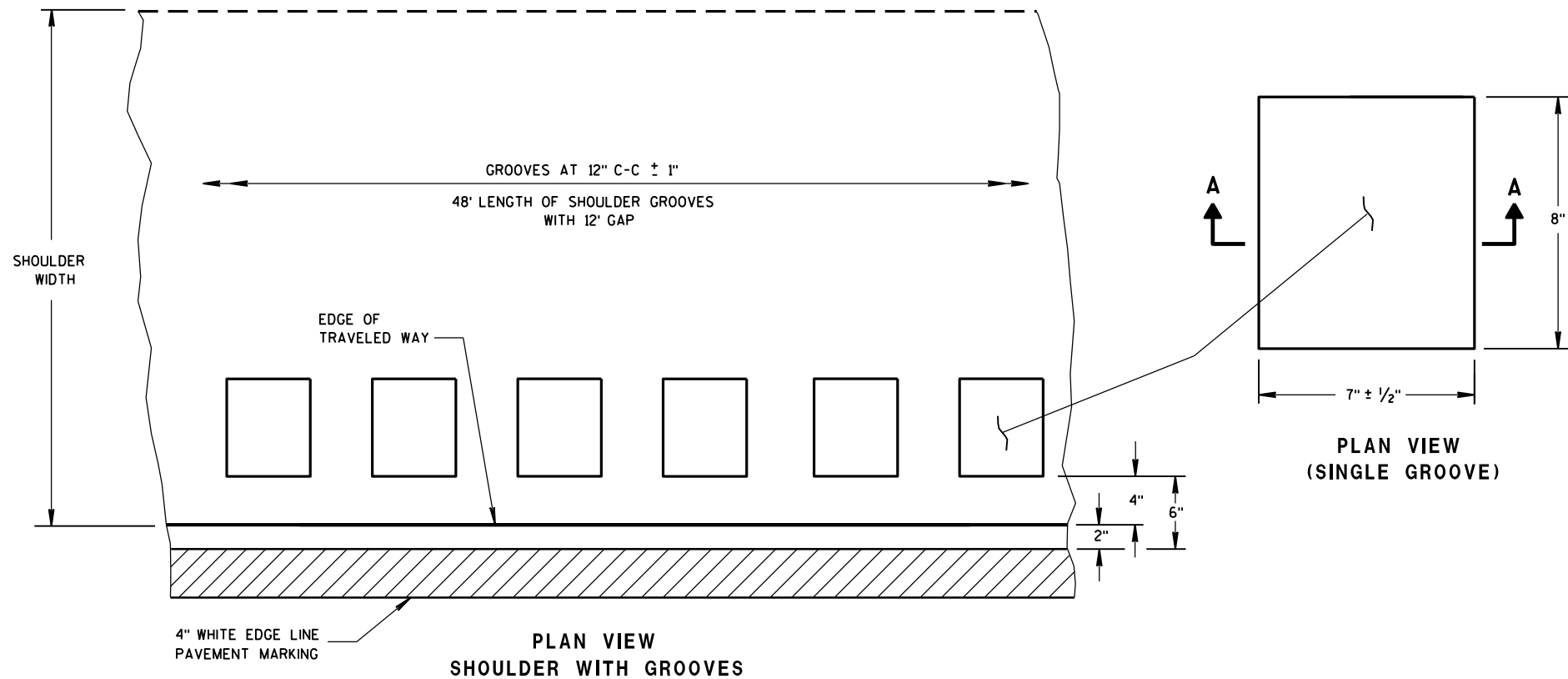
**TYPICAL PARALLEL ENTRANCE RAMP
RAMP AND GORE RUMBLE STRIP LOCATIONS**

**SHOULDER RUMBLE STRIP,
MILLING**

**STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION**

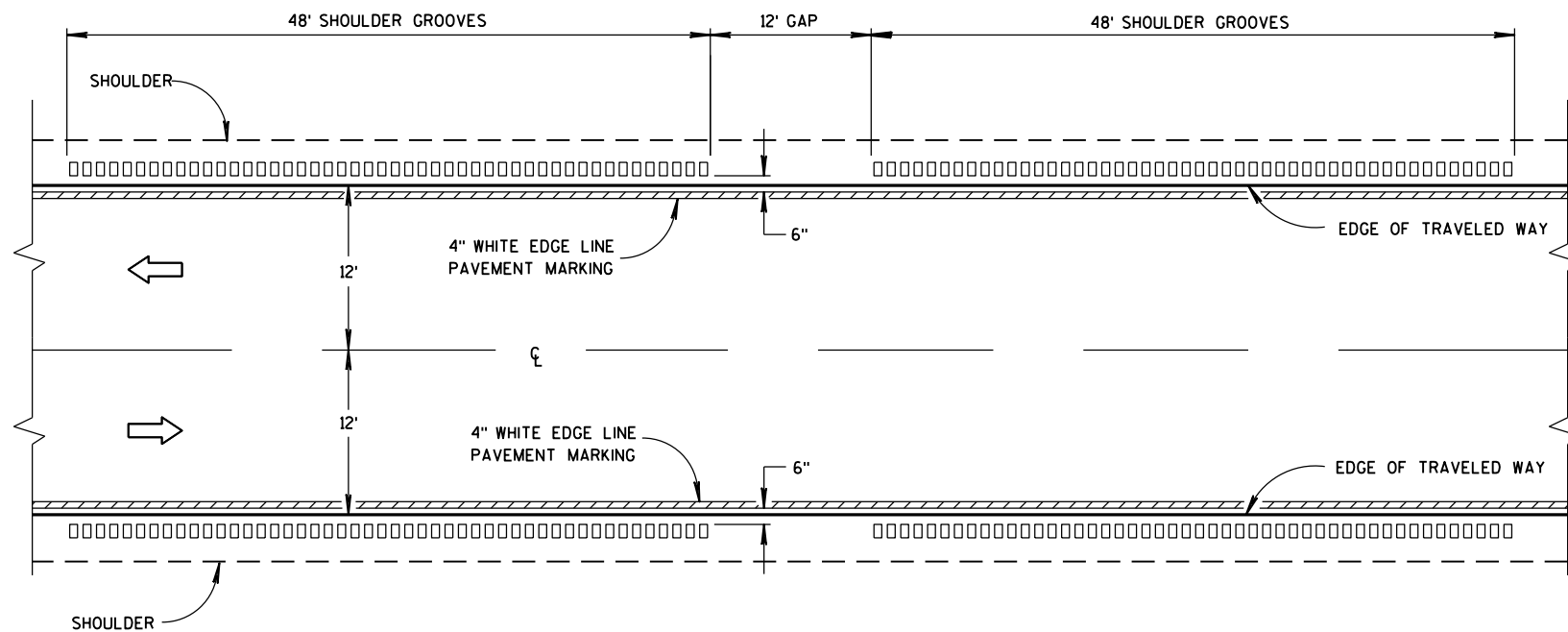
APPROVED
12/17/2012
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER



6

PLACEMENT DETAIL FOR TYPE 1 MILLED RUMBLE STRIP



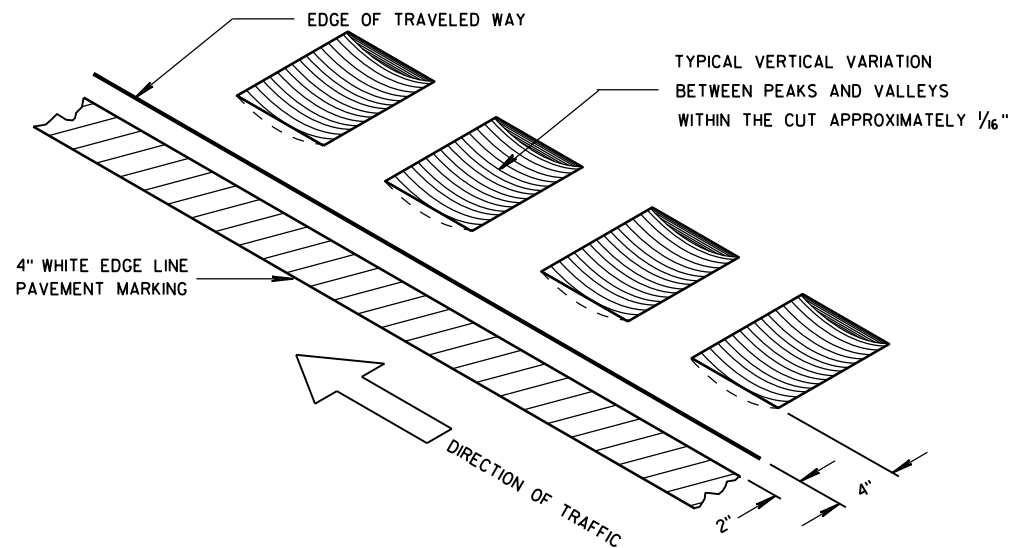
TYPE 1
2-LANE SHOULDER RUMBLE STRIP

GENERAL NOTES

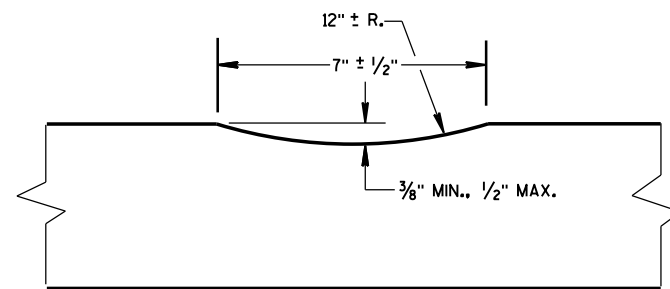
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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.



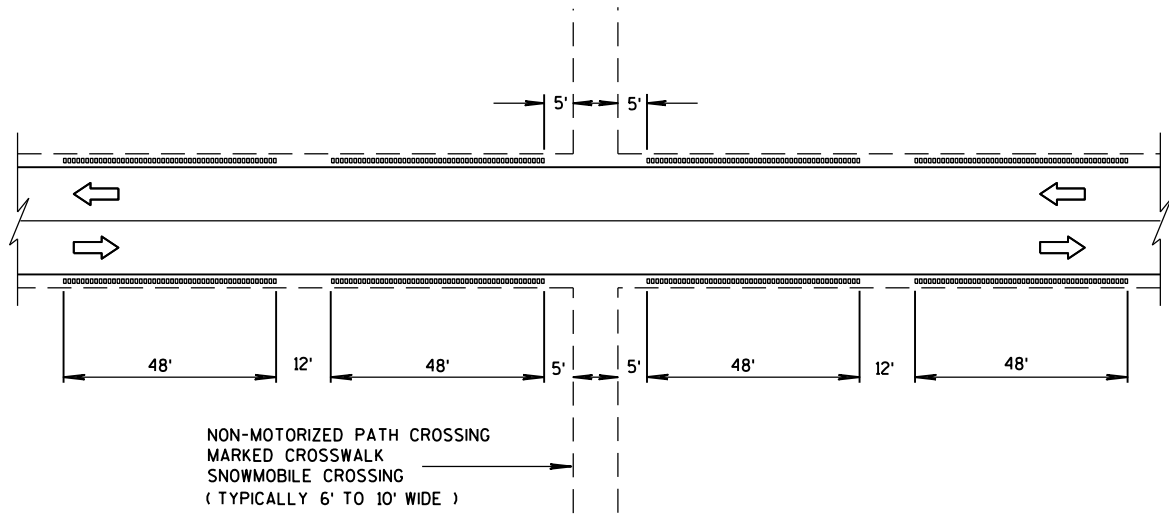
ISOMETRIC



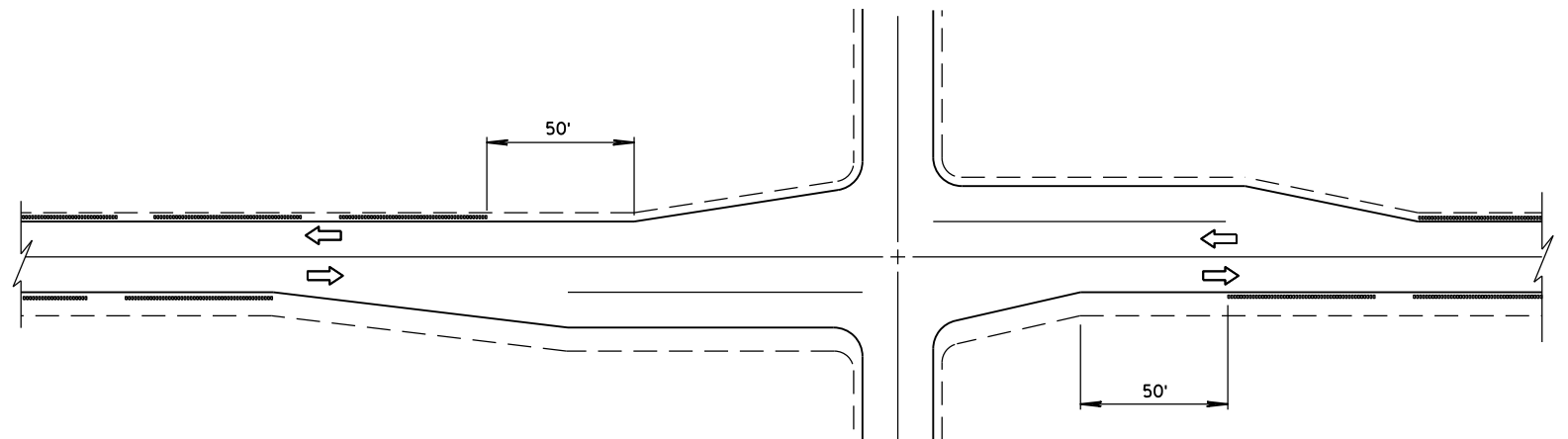
SECTION A-A

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

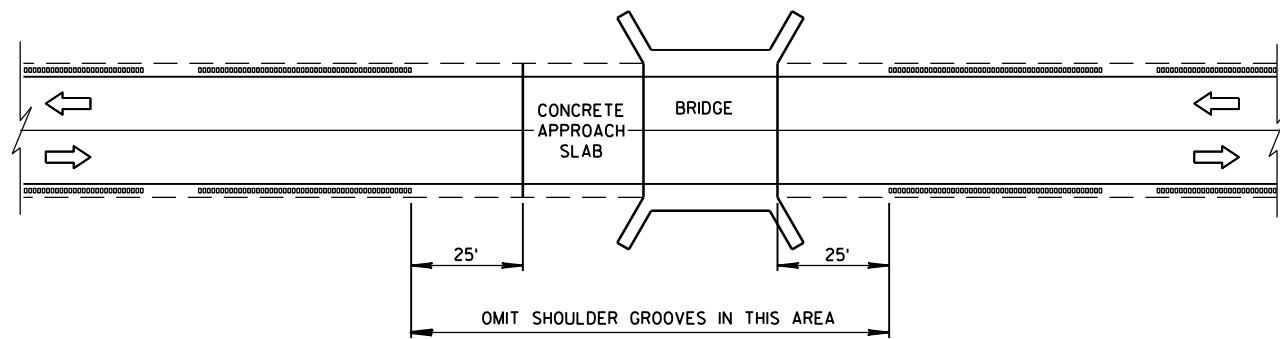
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



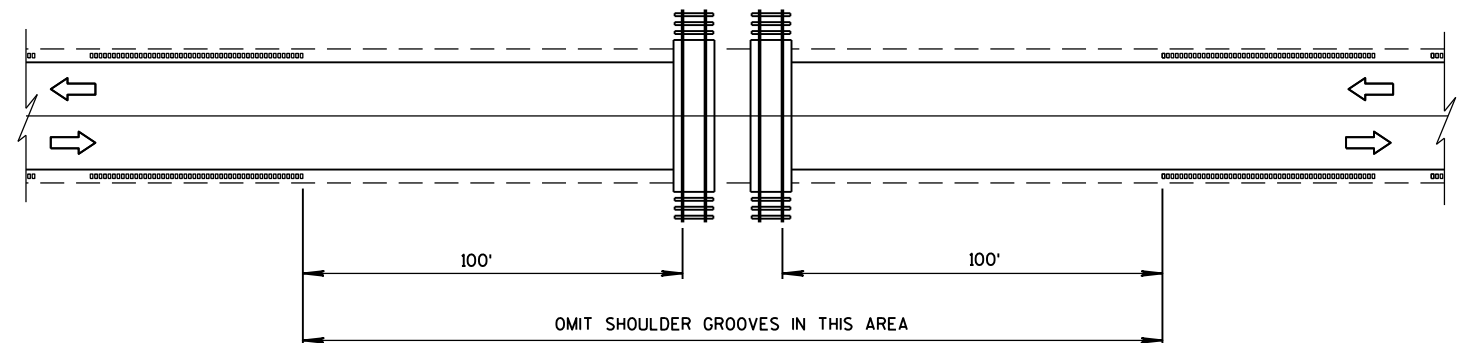
SHOULDER GROOVES AT MISCELLANEOUS CROSSINGS



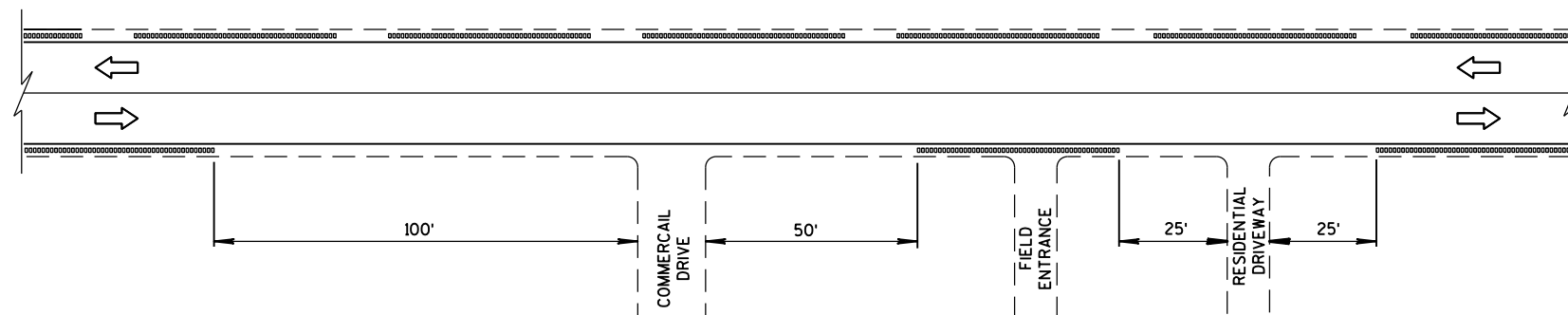
SHOULDER GROOVES AT INTERSECTIONS



SHOULDER GROOVES AT BRIDGES



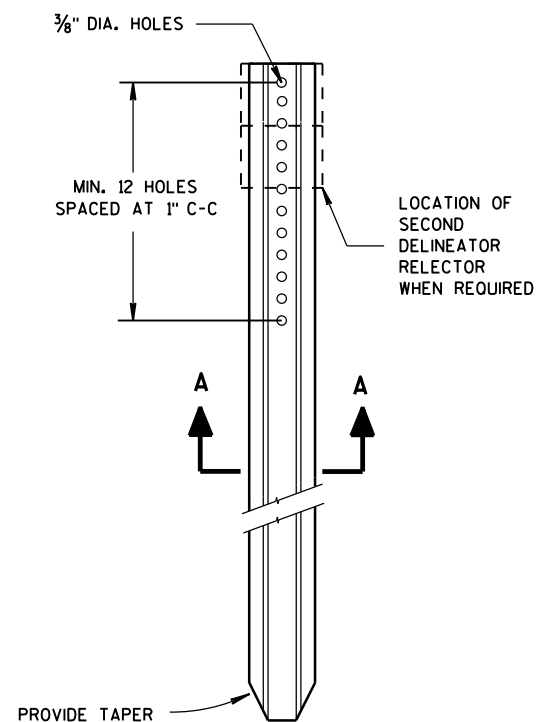
SHOULDER GROOVES AT RAILROADS



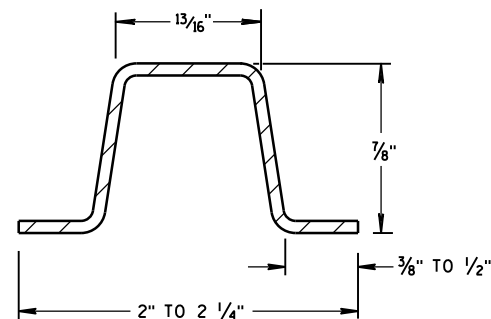
SHOULDER GROOVES AT DRIVEWAYS^①

2-LANE RURAL
SHOULDER RUMBLE STRIP, MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

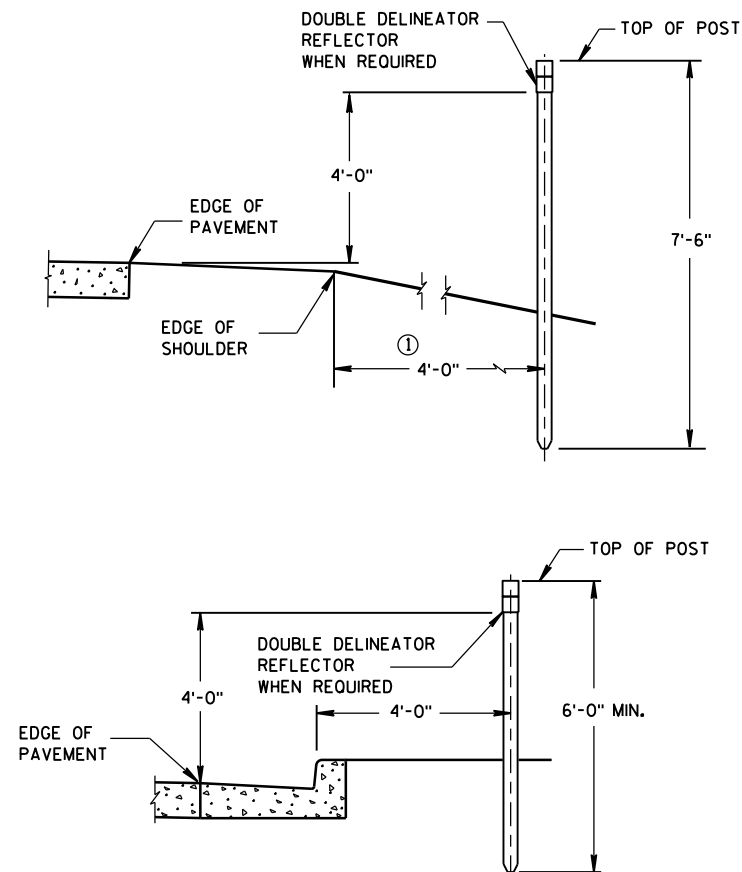


DELINEATOR POST



SECTION A-A

WEIGHT 1.12 LBS PER FT. ± 0.1 LB.

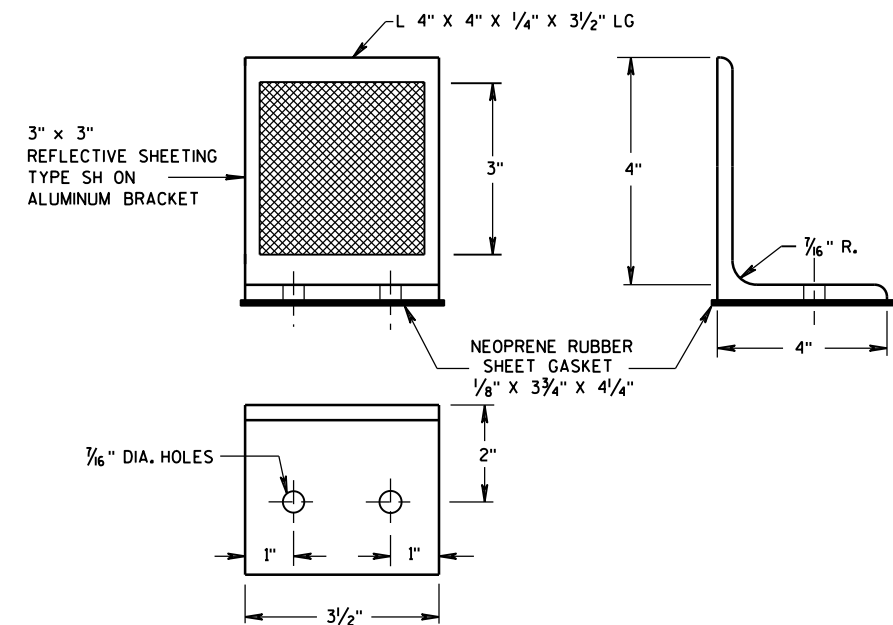


TYPICAL INSTALLATIONS OF DELINEATOR POSTS

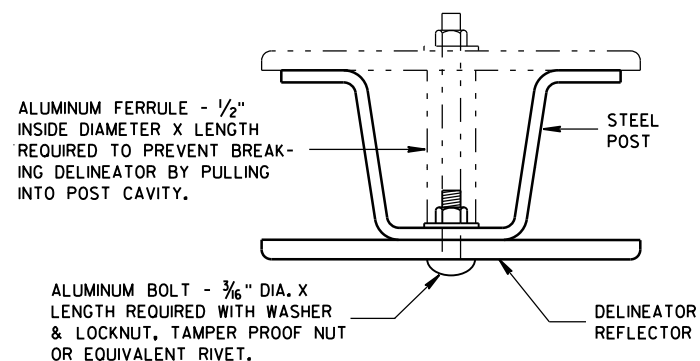
GENERAL NOTES

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

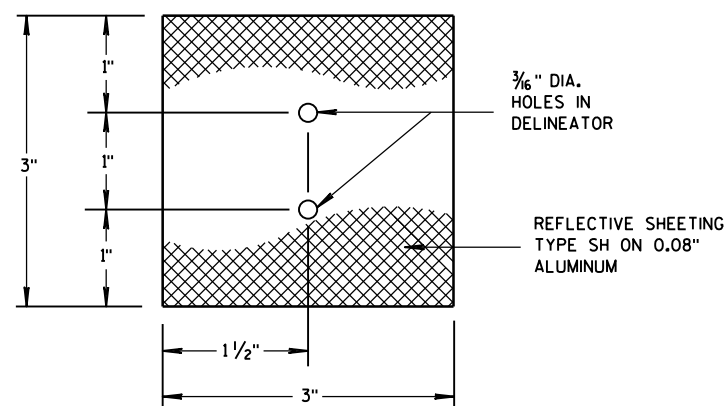
- ① DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.



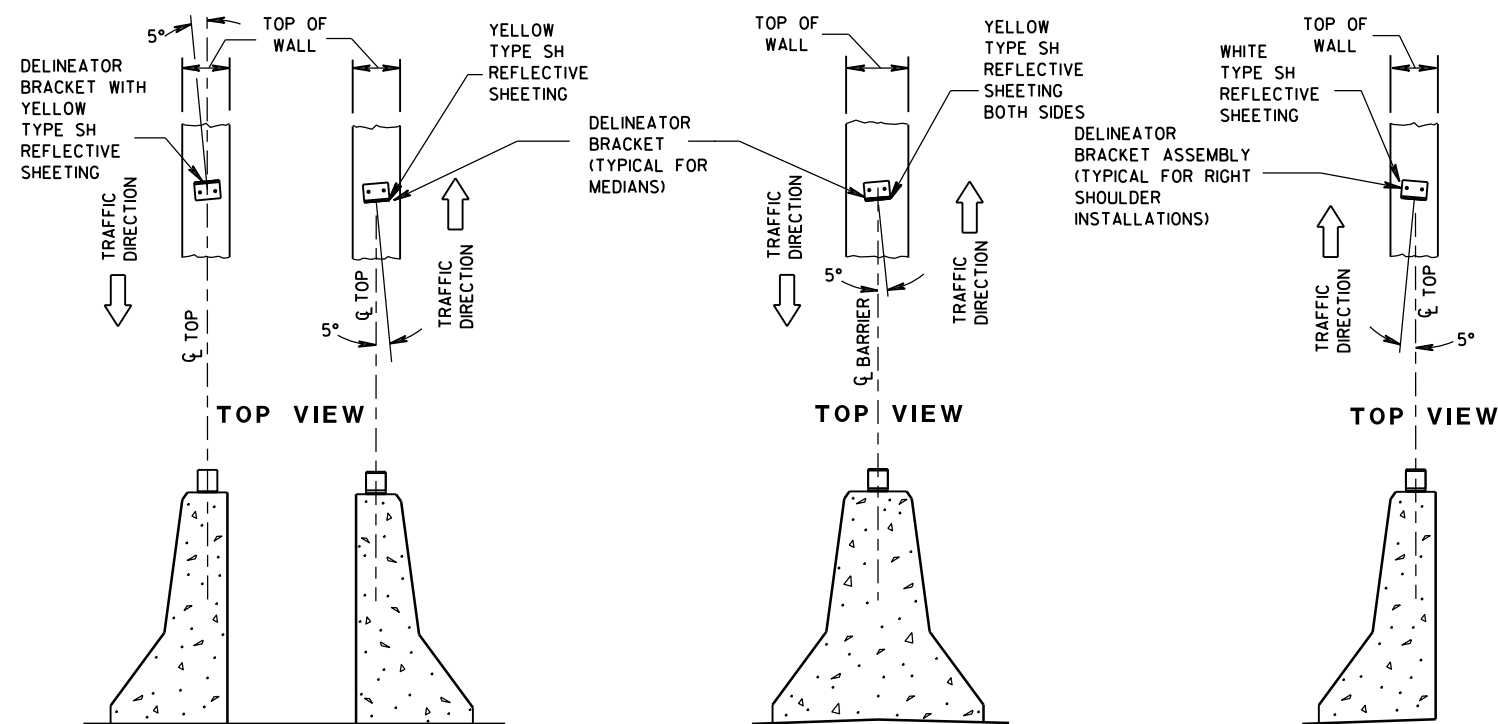
DELINEATOR BRACKET



MOUNTING DETAIL FOR DELINEATOR REFLECTOR



3" x 3" DELINEATOR REFLECTOR

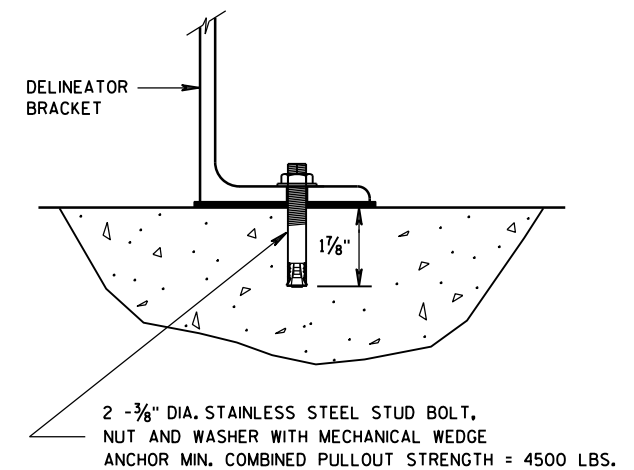


DOUBLE BARRIERS IN MEDIAN

MEDIAN BARRIER

BARRIER LOCATED TO RT. OF TRAFFIC FLOW

LOCATION AND AIMING DETAILS FOR DELINEATOR BRACKETS MOUNTED ON CONCRETE BARRIERS



DELINEATOR BRACKET MOUNTING DETAIL

DELINEATOR POST,
DELINEATOR REFLECTOR AND
DELINEATOR BRACKET
WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

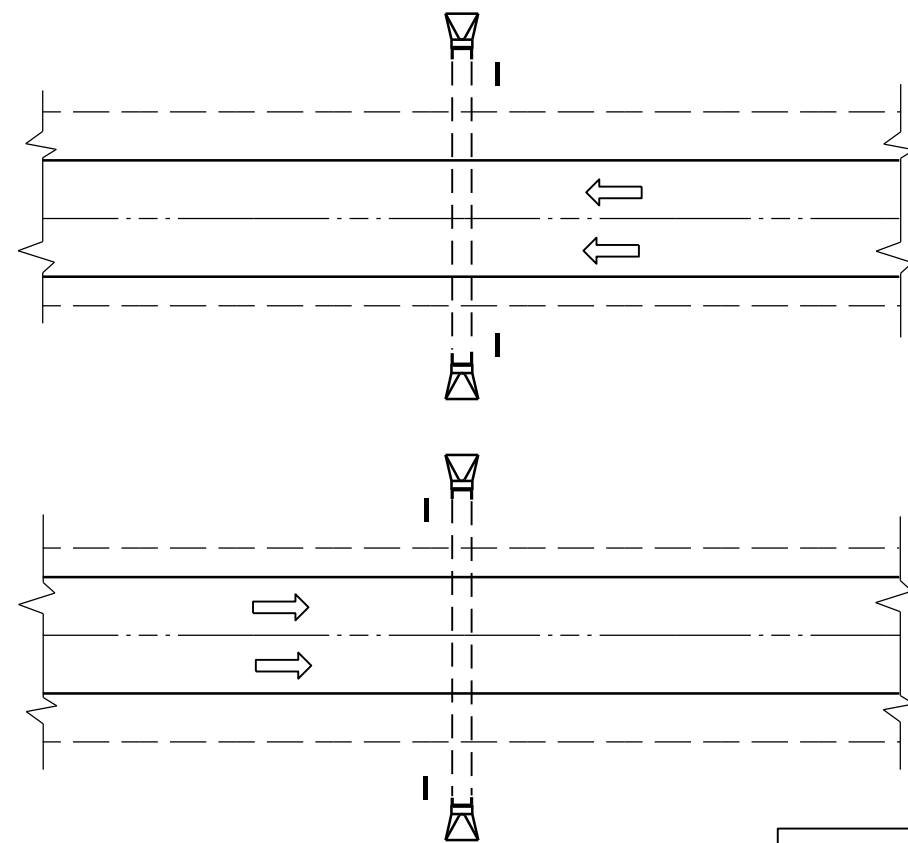
APPROVED

4-18-16

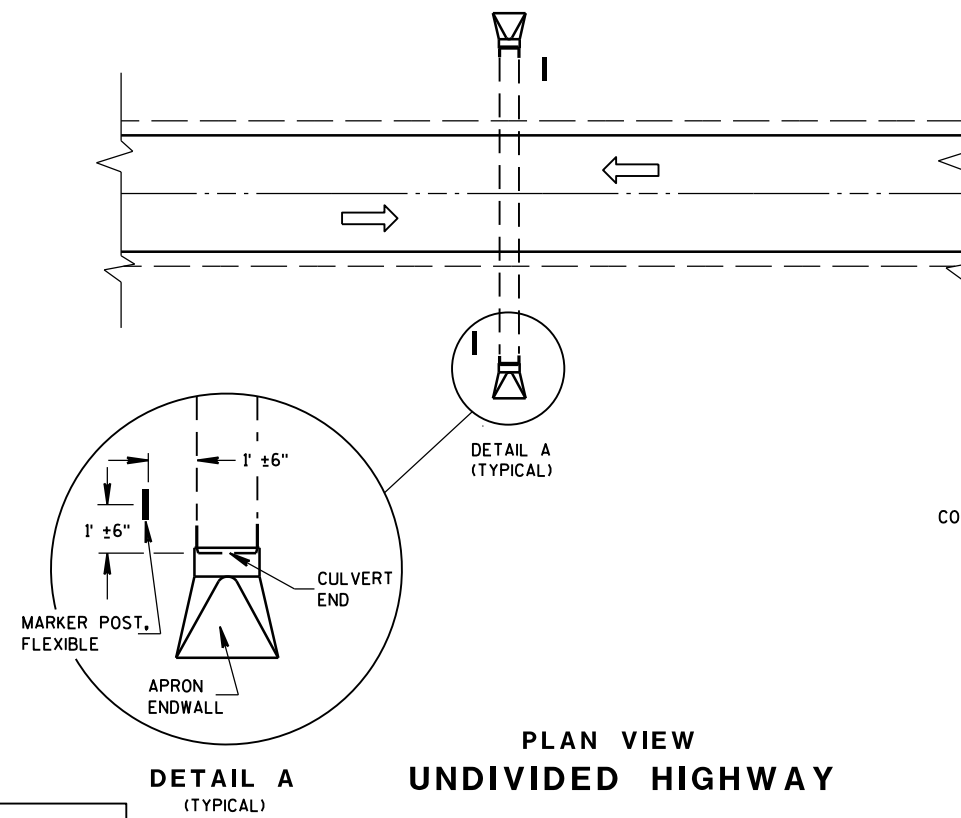
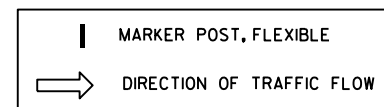
DATE

FHWA

/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER



PLAN VIEW
DIVIDED HIGHWAY

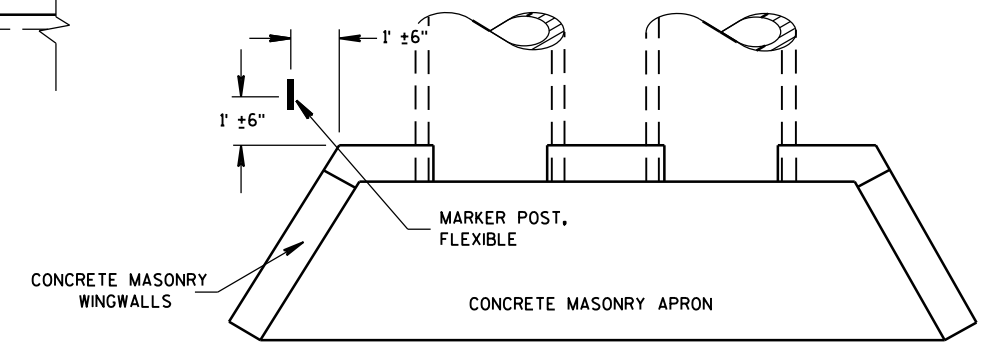


PLAN VIEW
UNDIVIDED HIGHWAY

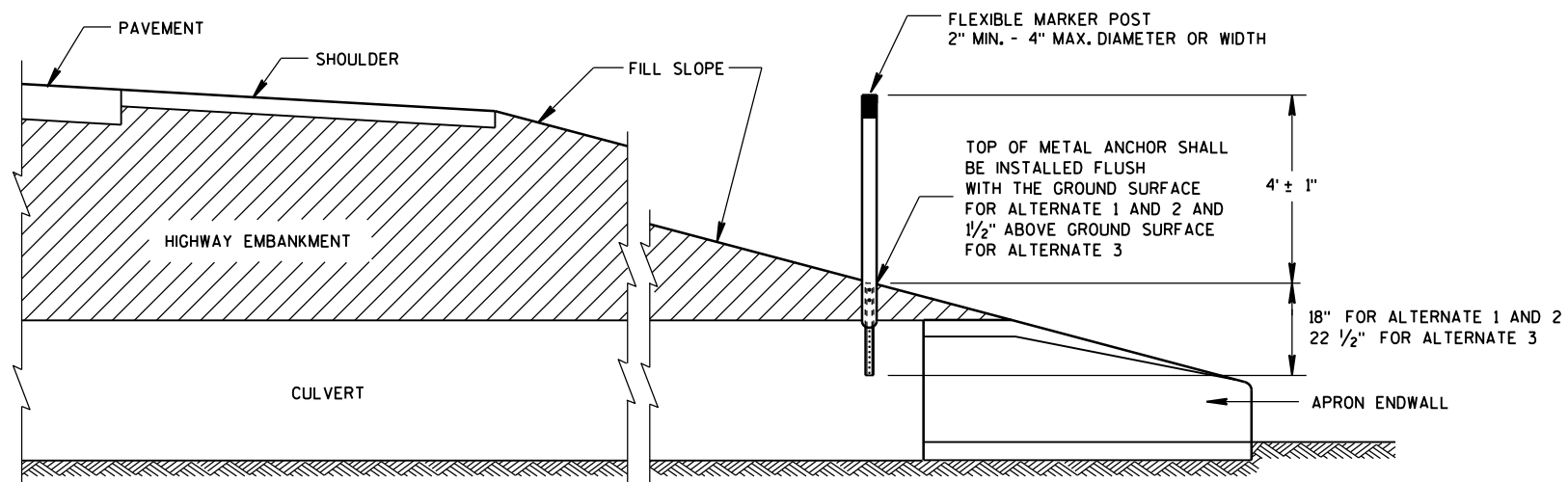
FLEXIBLE MARKER POST LOCATION

GENERAL NOTES

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



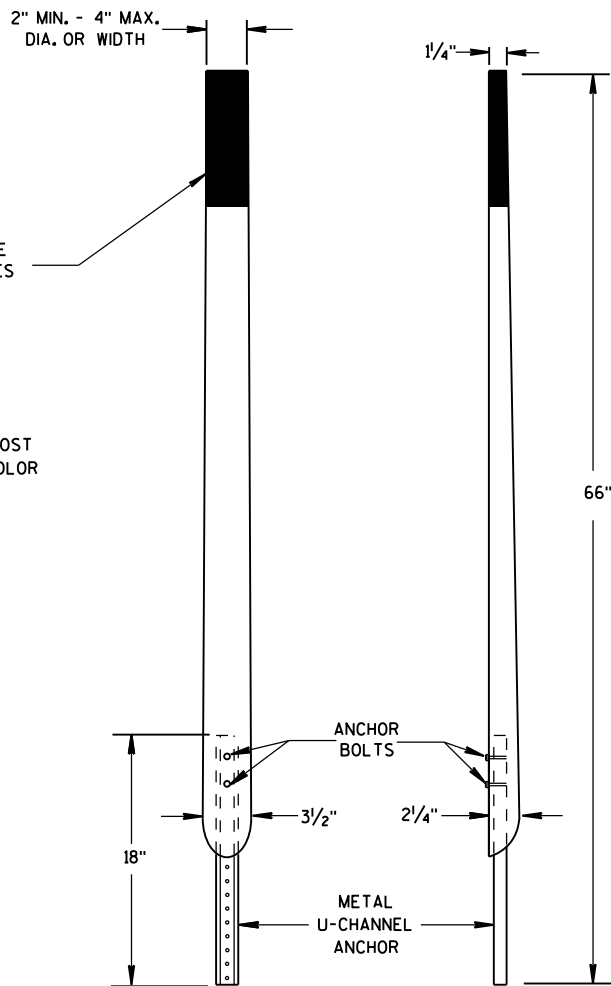
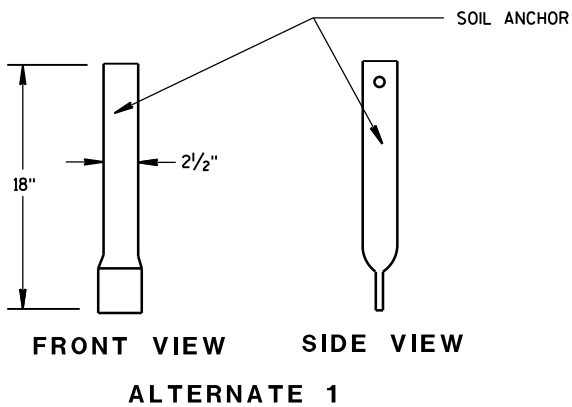
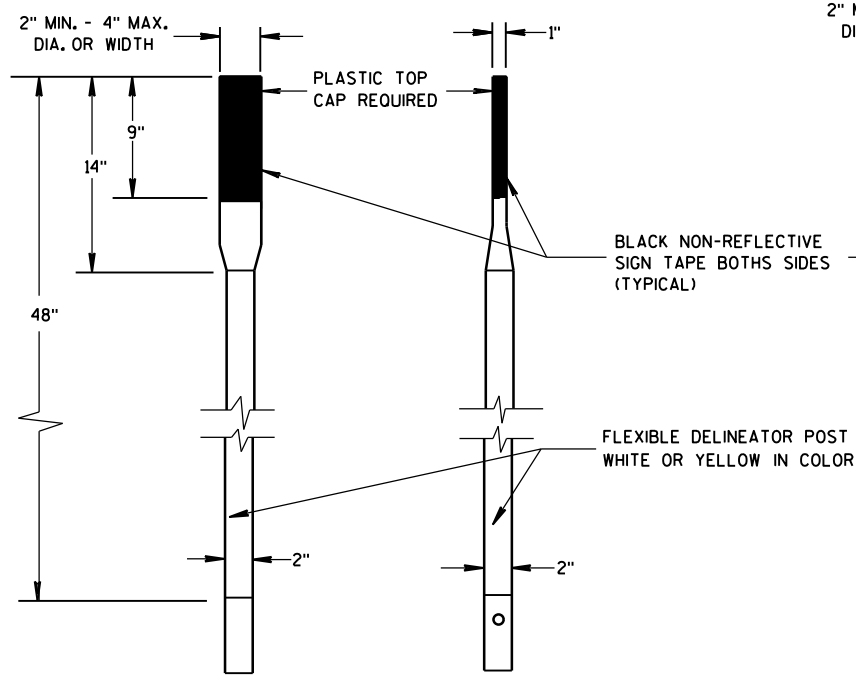
PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH



CROSS SECTION
FLEXIBLE MARKER POST

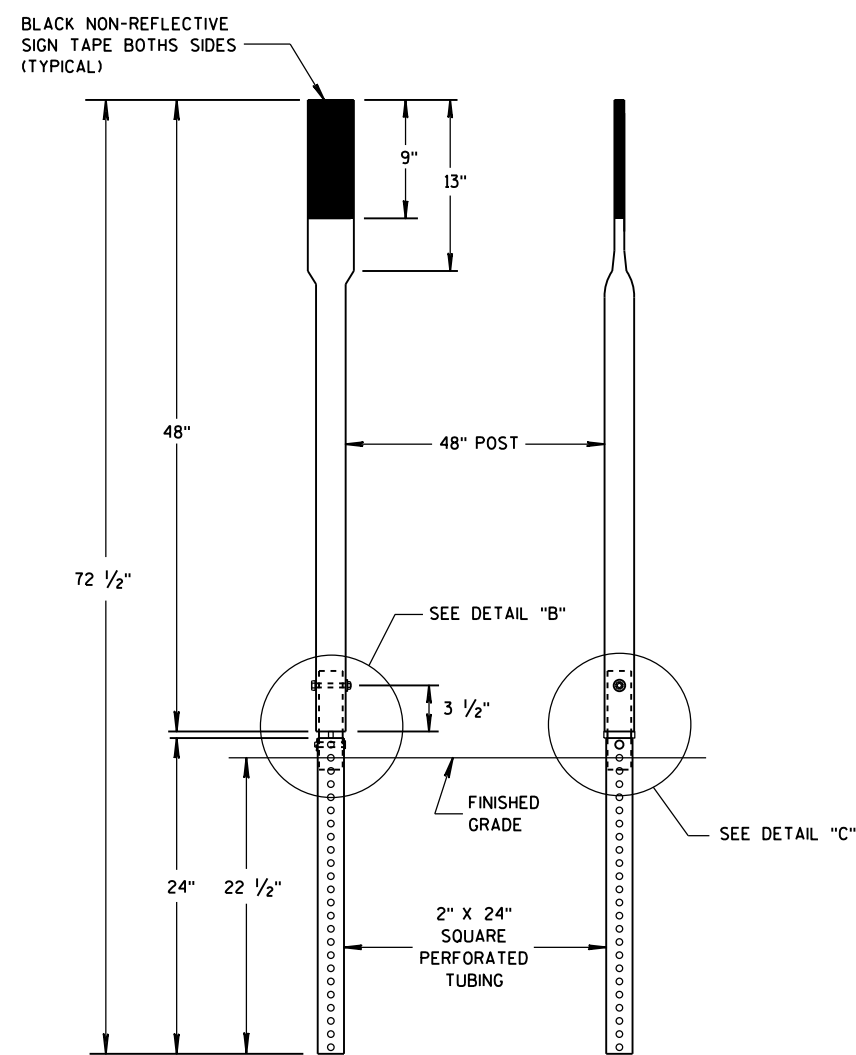
FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

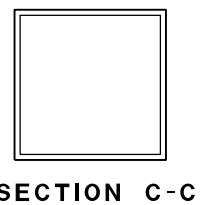


FRONT VIEW SIDE VIEW
ALTERNATE 2

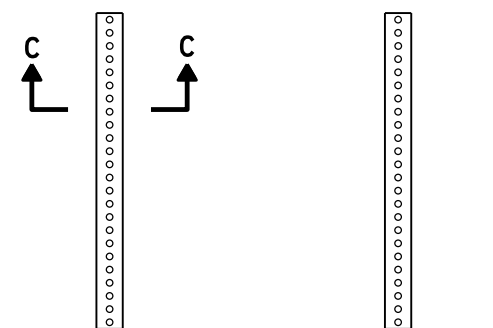
FLEXIBLE MARKER POSTS



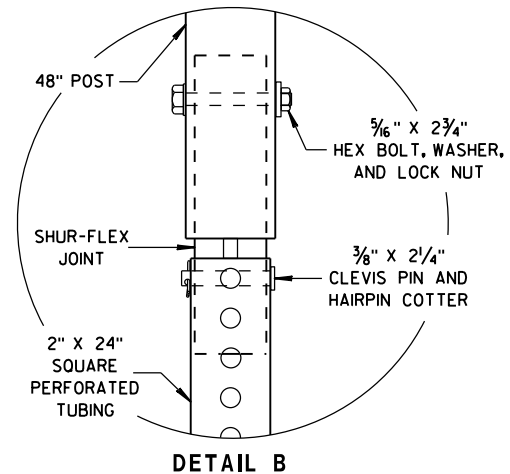
FRONT VIEW SIDE VIEW
ALTERNATE 3



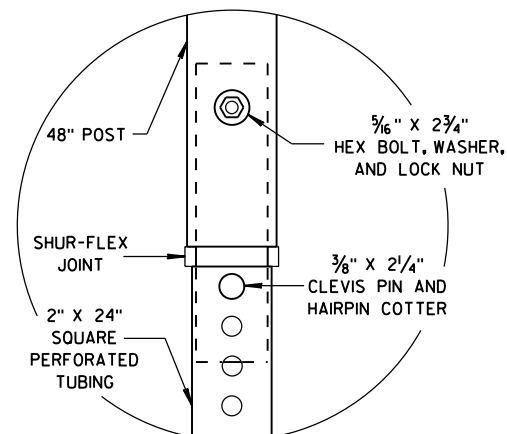
SECTION C-C



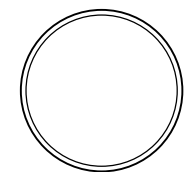
FRONT VIEW SIDE VIEW
ALTERNATE 3



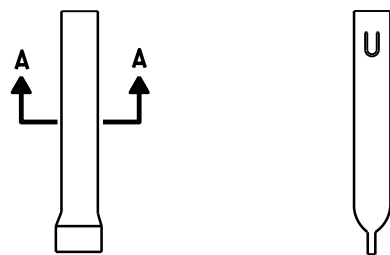
DETAIL B



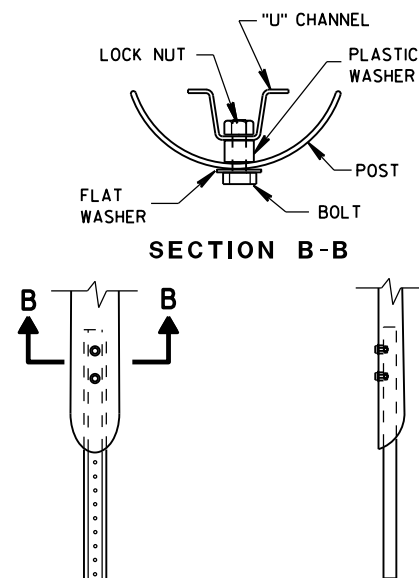
DETAIL C



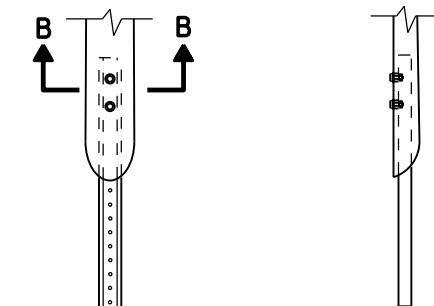
SECTION A-A



FRONT VIEW SIDE VIEW
ALTERNATE 1



SECTION B-B



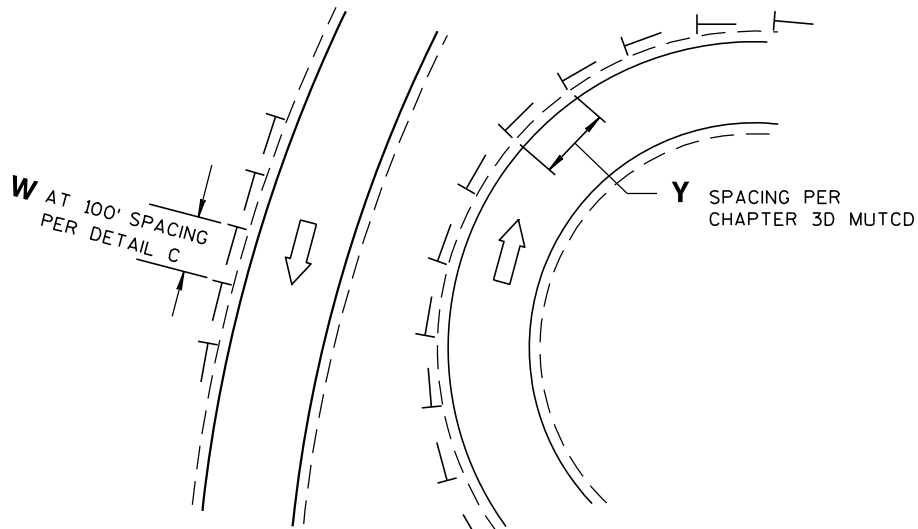
FRONT VIEW SIDE VIEW
ALTERNATE 2

FLEXIBLE MARKER POST ANCHORS

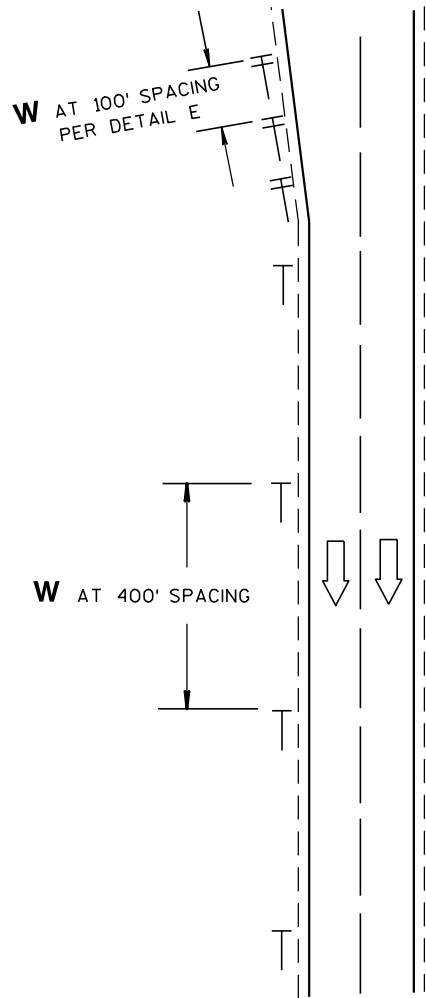
FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

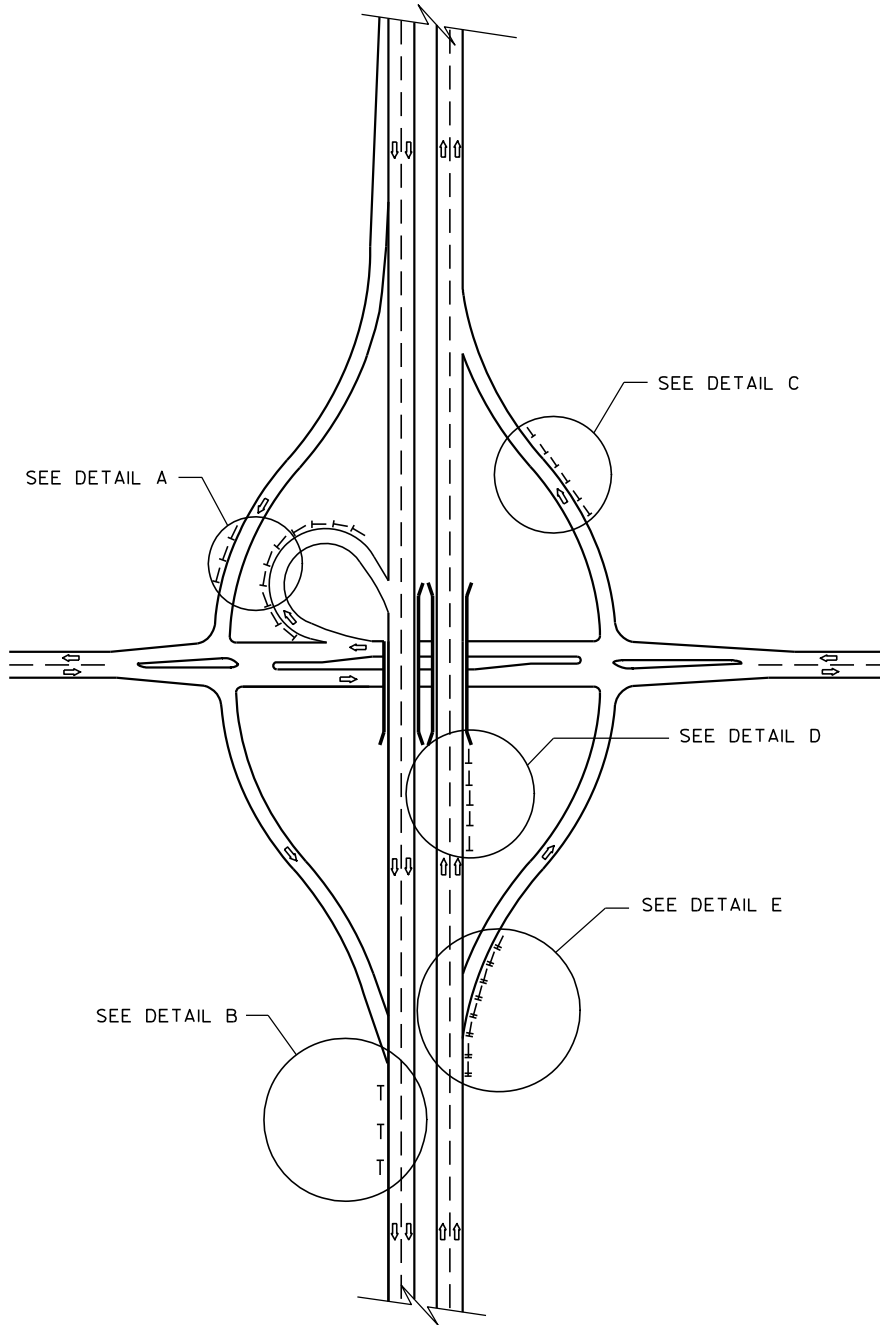
APPROVED
10/1/2012 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



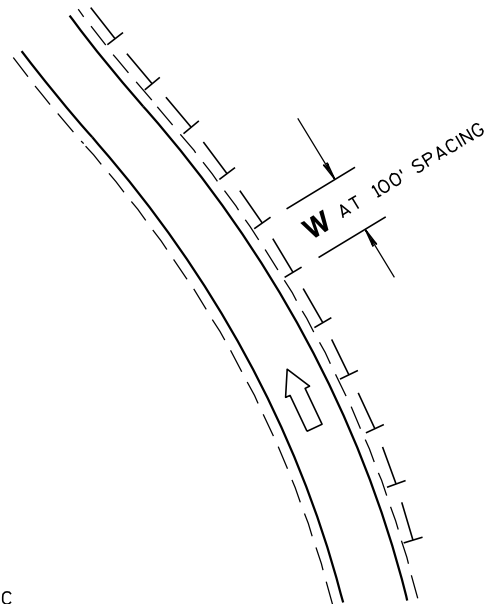
DETAIL A
DELINEATOR LAYOUT AT CURVED RAMP



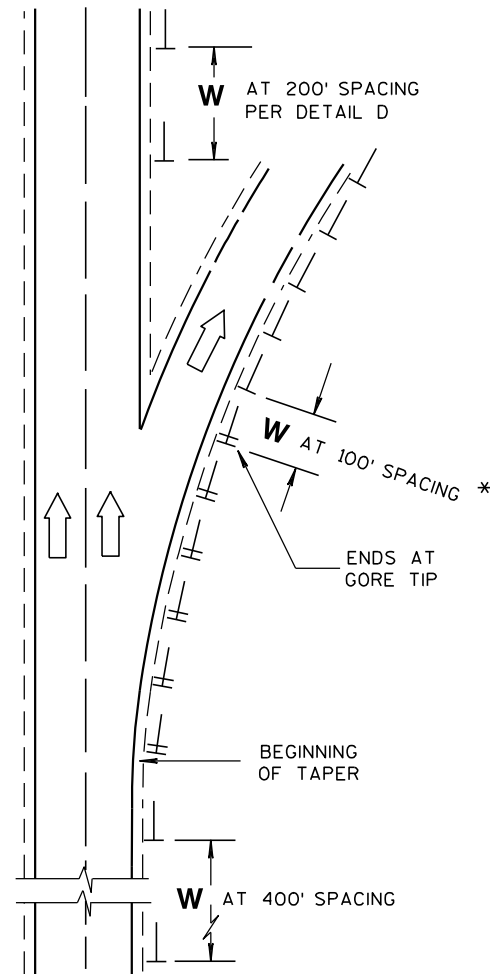
DETAIL B
DELINEATOR LAYOUT
ALONG MAINLINE



DELINEATOR LAYOUT



DETAIL C
DELINEATOR LAYOUT ALONG RAMP



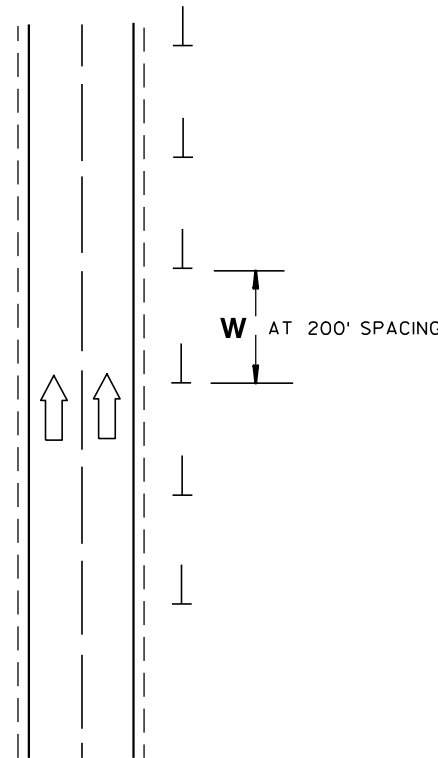
DETAIL E
DELINEATOR LAYOUT FOR ACCELERATION
- DECELERATION LANES AND TAPERS AT RAMPS

GENERAL NOTES

* USE DOUBLE DELINEATOR ALONG ACCELERATION-DECELERATION LANES AND TAPERS.
USE SINGLE DELINEATOR WHEN RAMP PAVEMENT IS FULL WIDTH.

LEGEND

- DIRECTION OF TRAFFIC FLOW
- SINGLE DELINEATOR
- DOUBLE DELINEATOR
- W** WHITE
- Y** YELLOW



DETAIL D
DELINEATOR LAYOUT
BETWEEN INTERCHANGE RAMPS

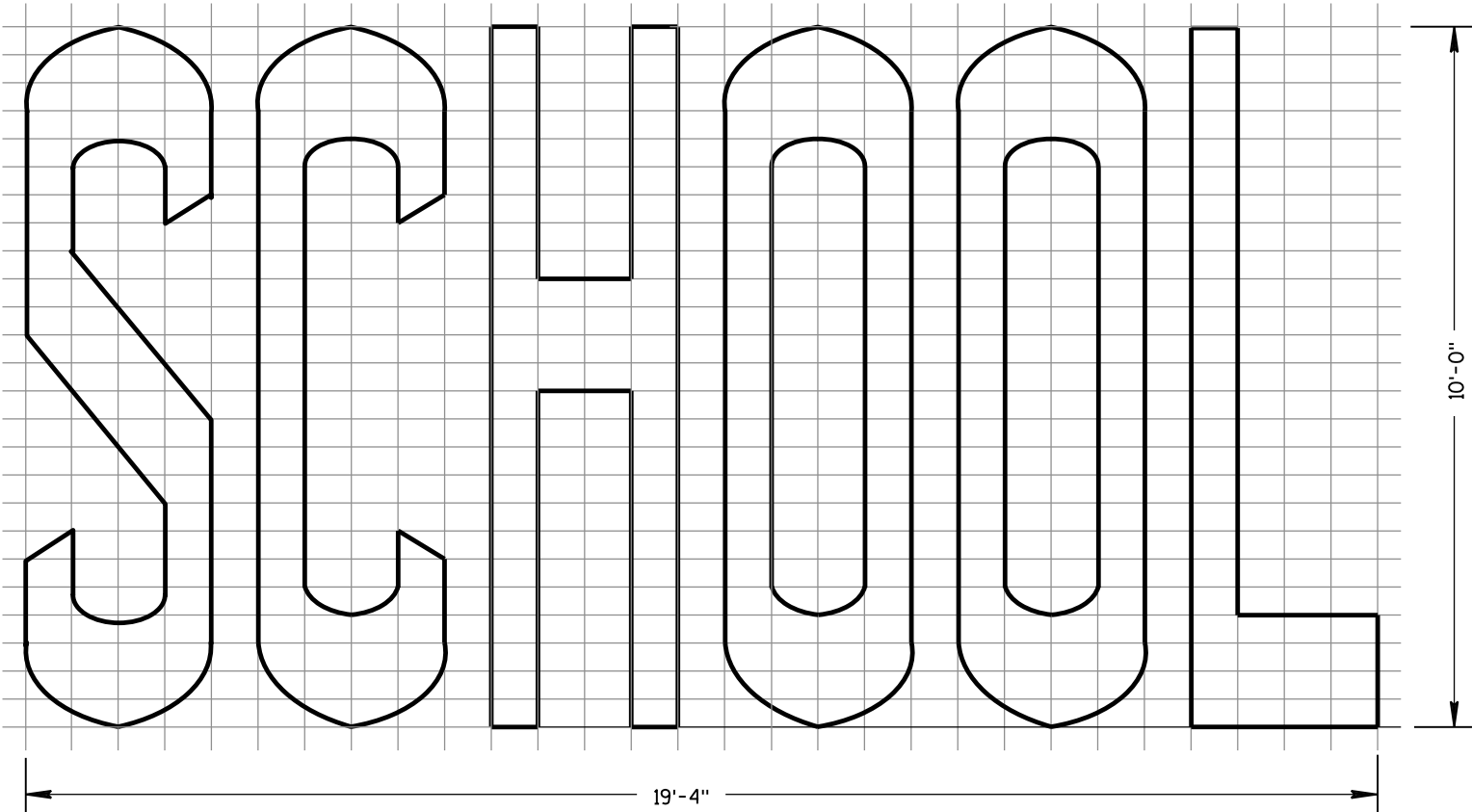
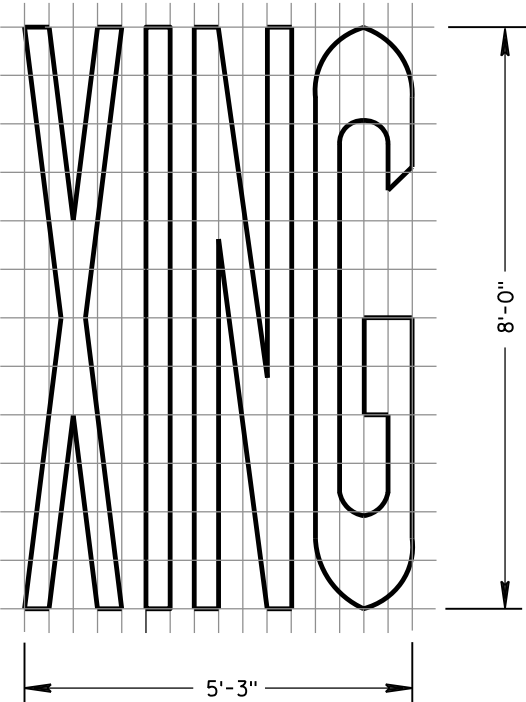
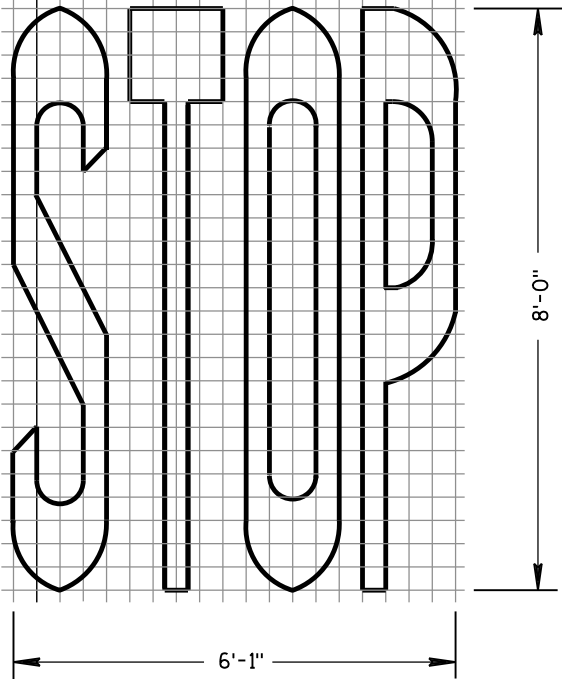
DELINEATOR LAYOUT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

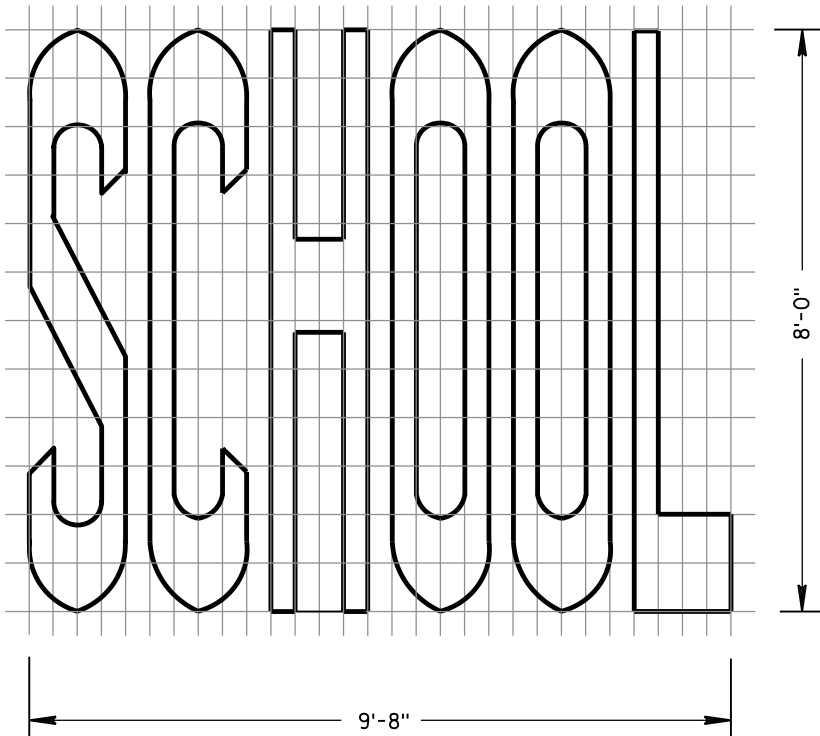
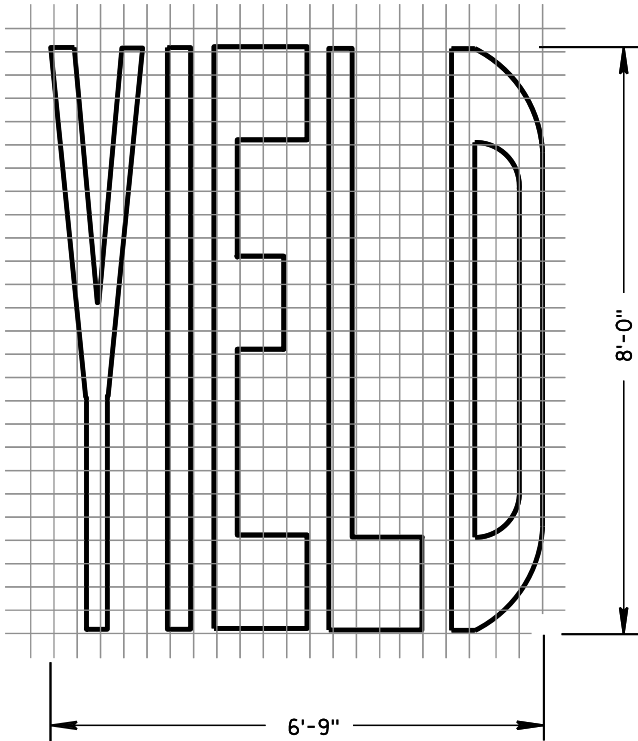
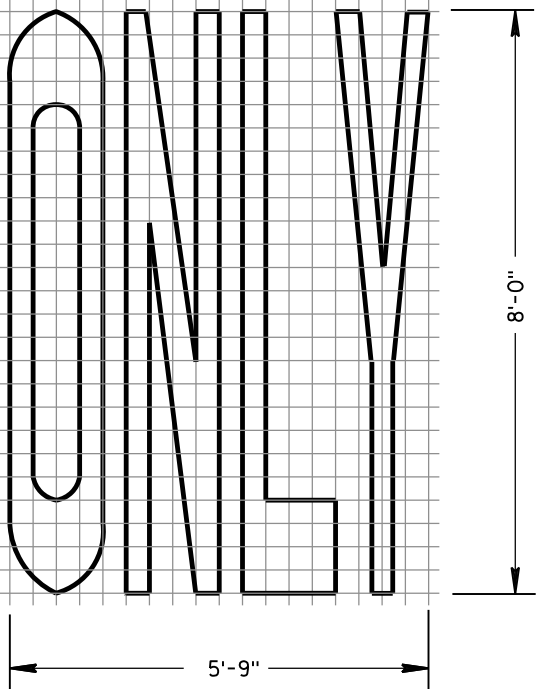
APPROVED
2/5/09 /S/ Thomas N. Notbohm
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA

GENERAL NOTES

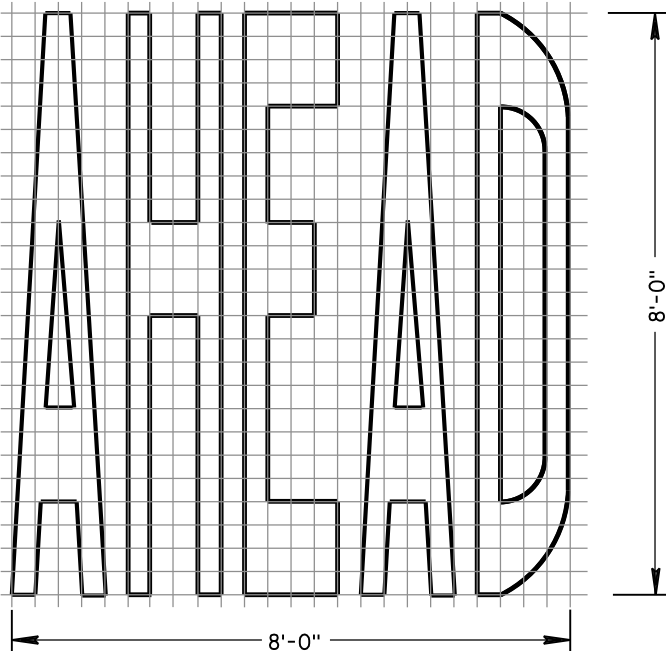
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



TWO-LANE



SINGLE-LANE



PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

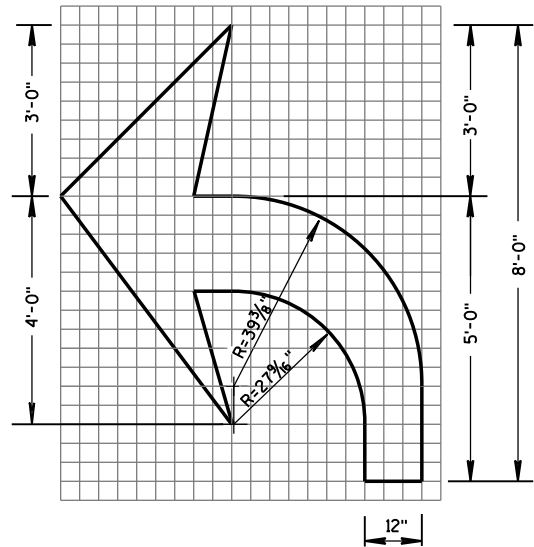
APPROVED

4-18-16

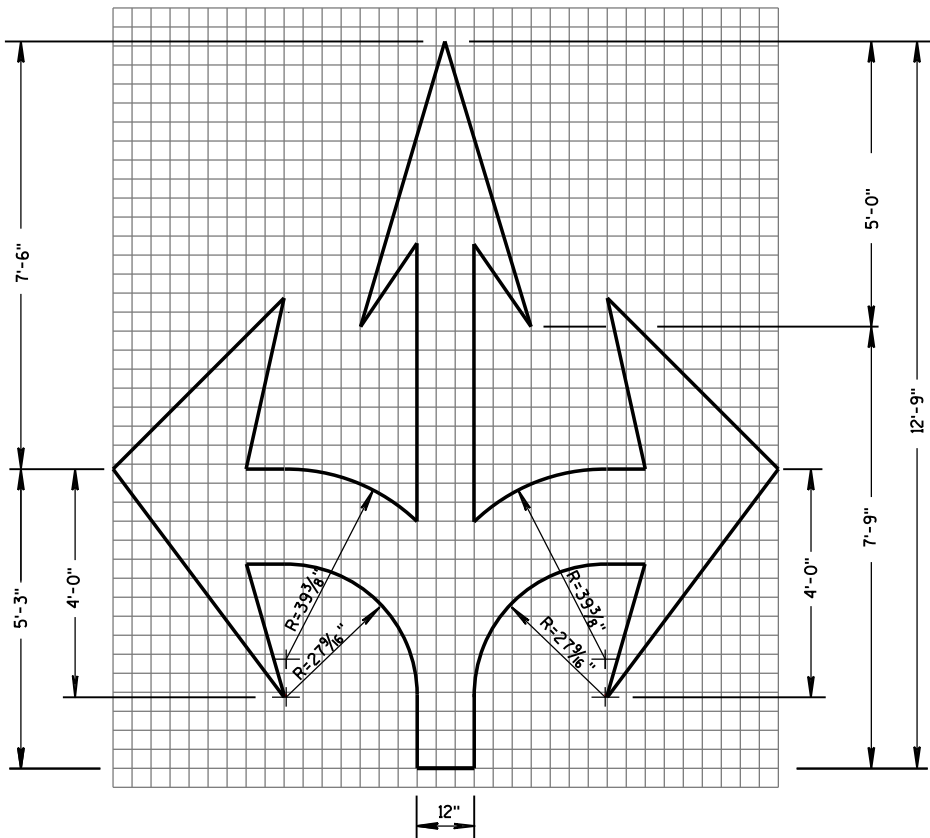
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

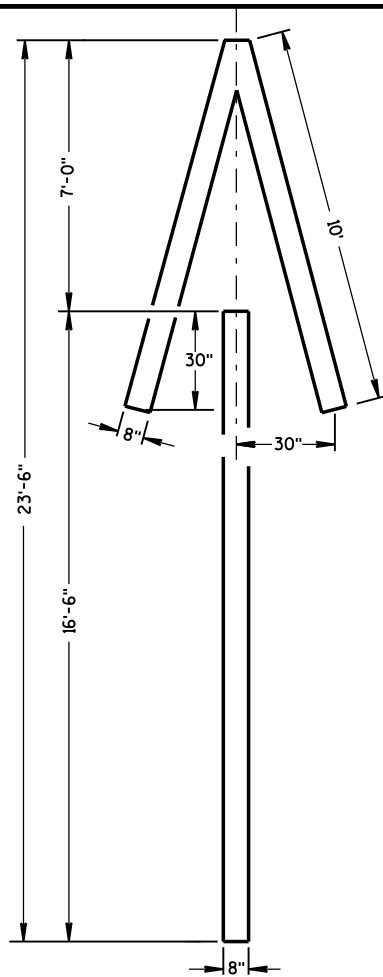
FHWA



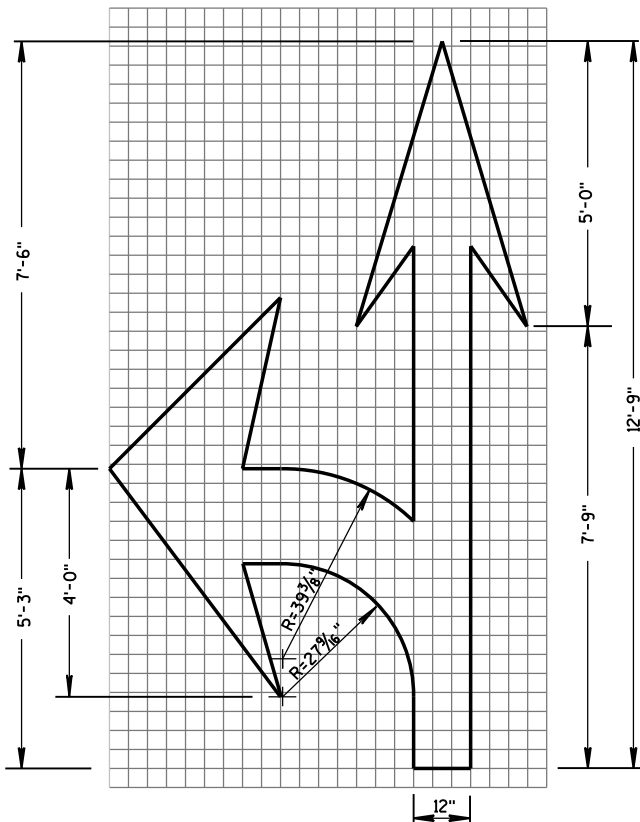
TYPE 2



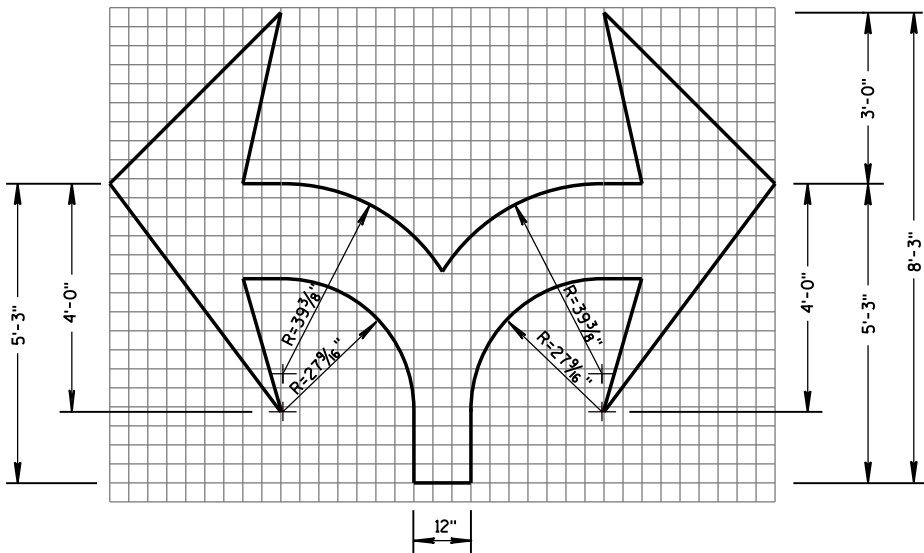
TYPE 6



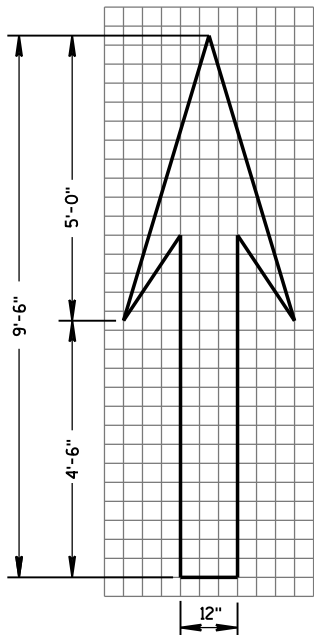
TYPE 4



TYPE 3



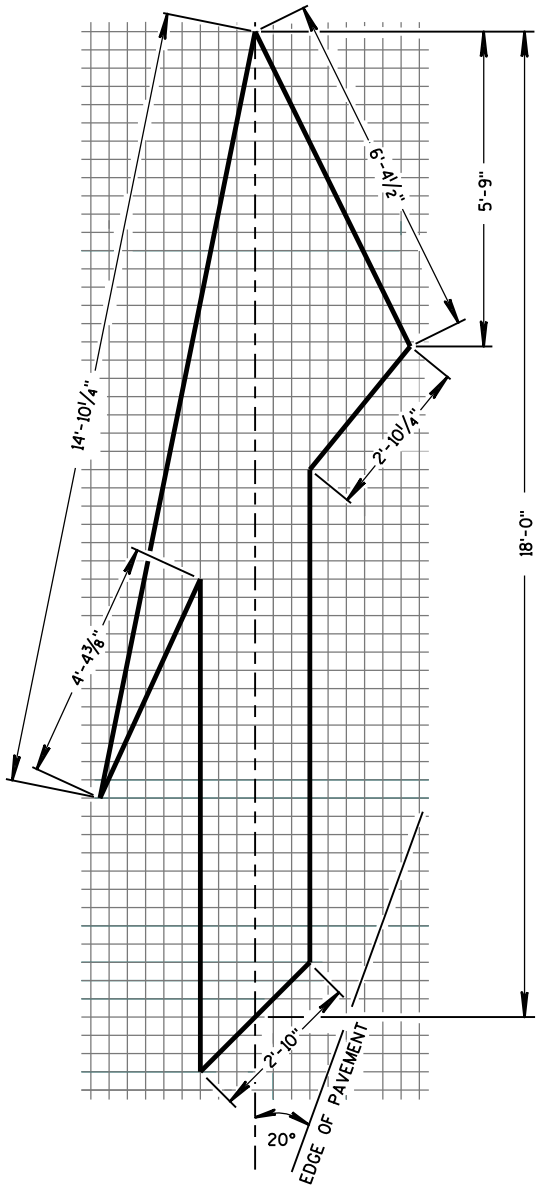
TYPE 7



TYPE 1

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.

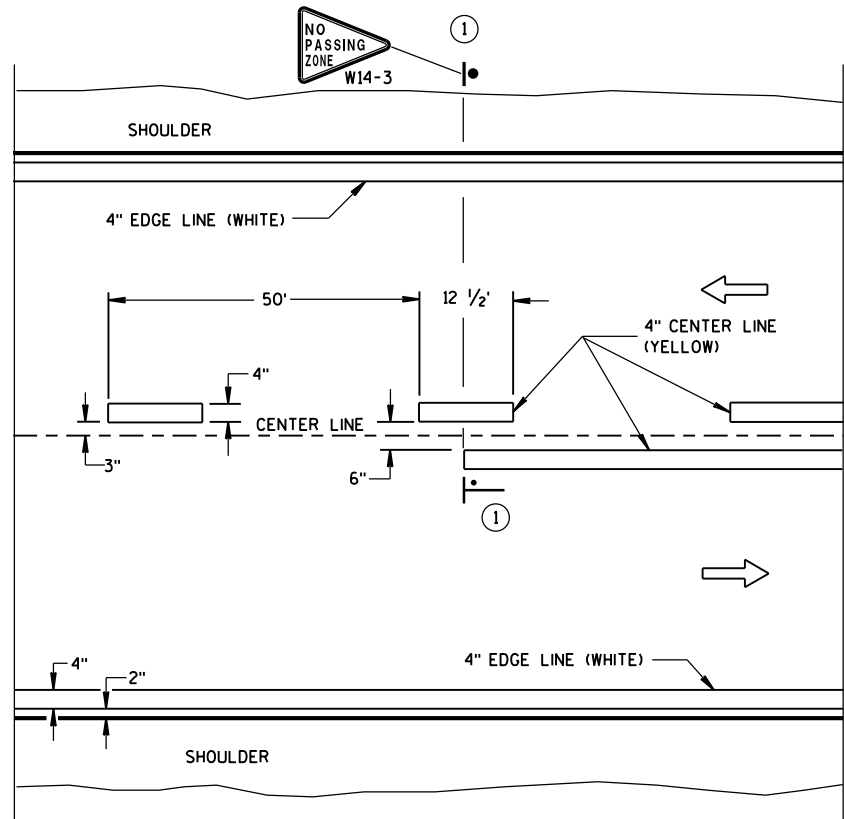


TYPE 5 LANE DROP ARROW

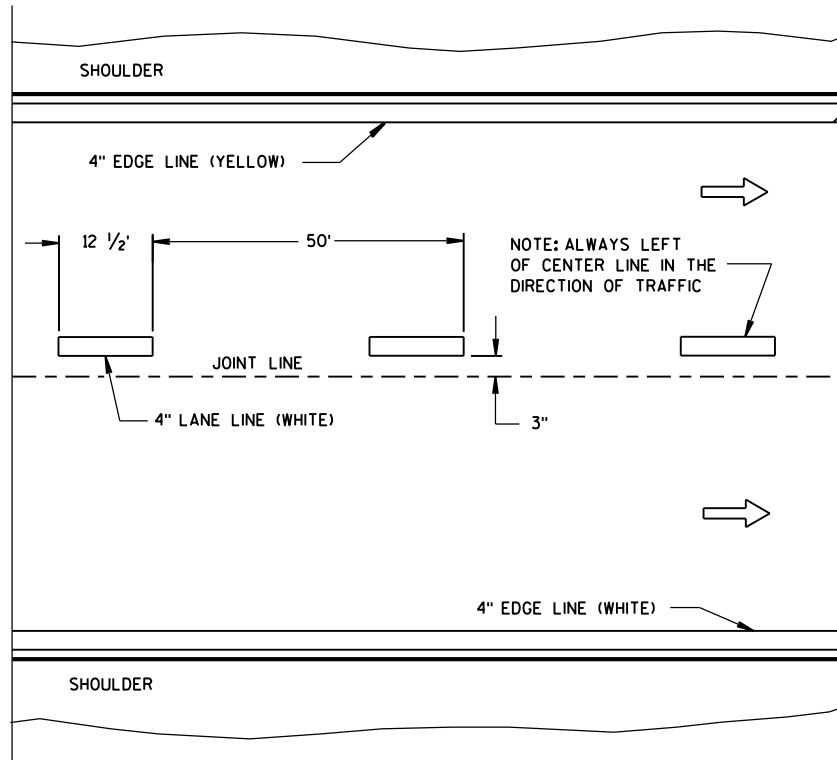
PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

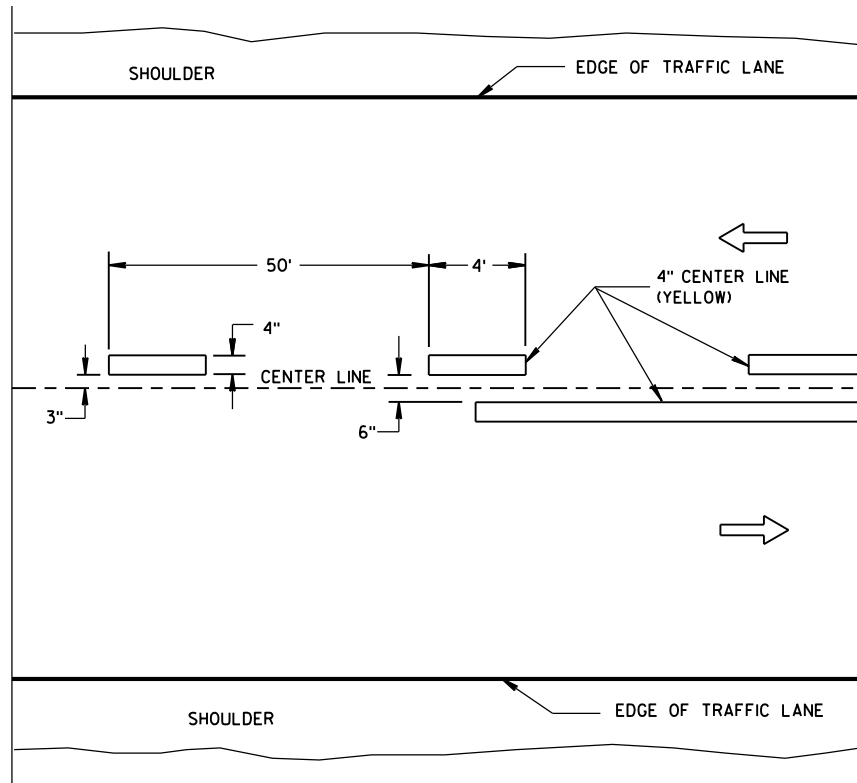


TWO WAY TRAFFIC

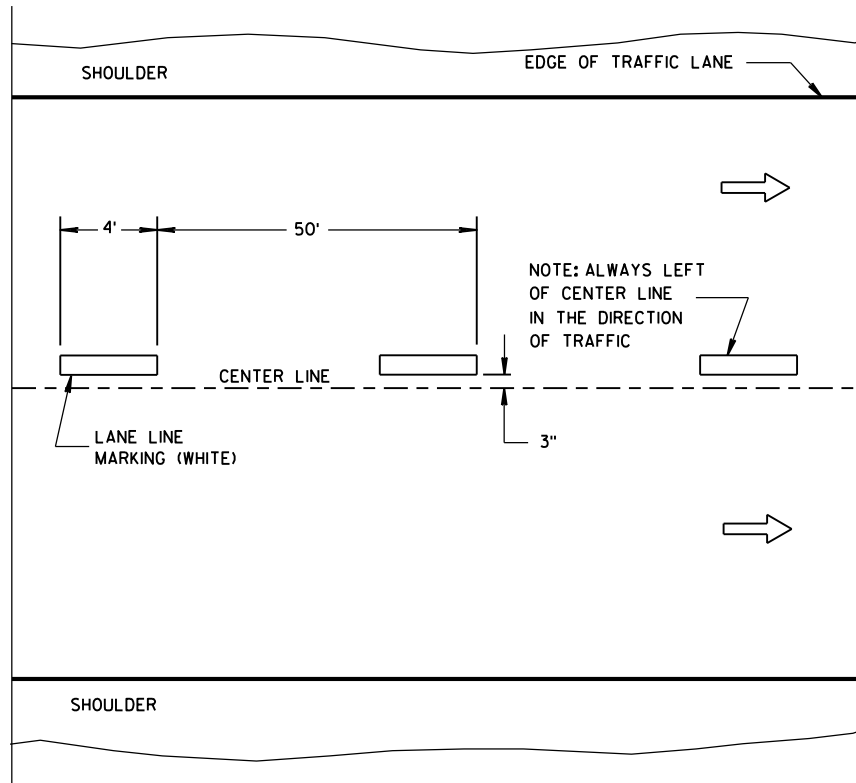


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY 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

LONGITUDINAL MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA



TWO WAY LEFT TURN LANE

- L = LENGTH OF TURN BAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

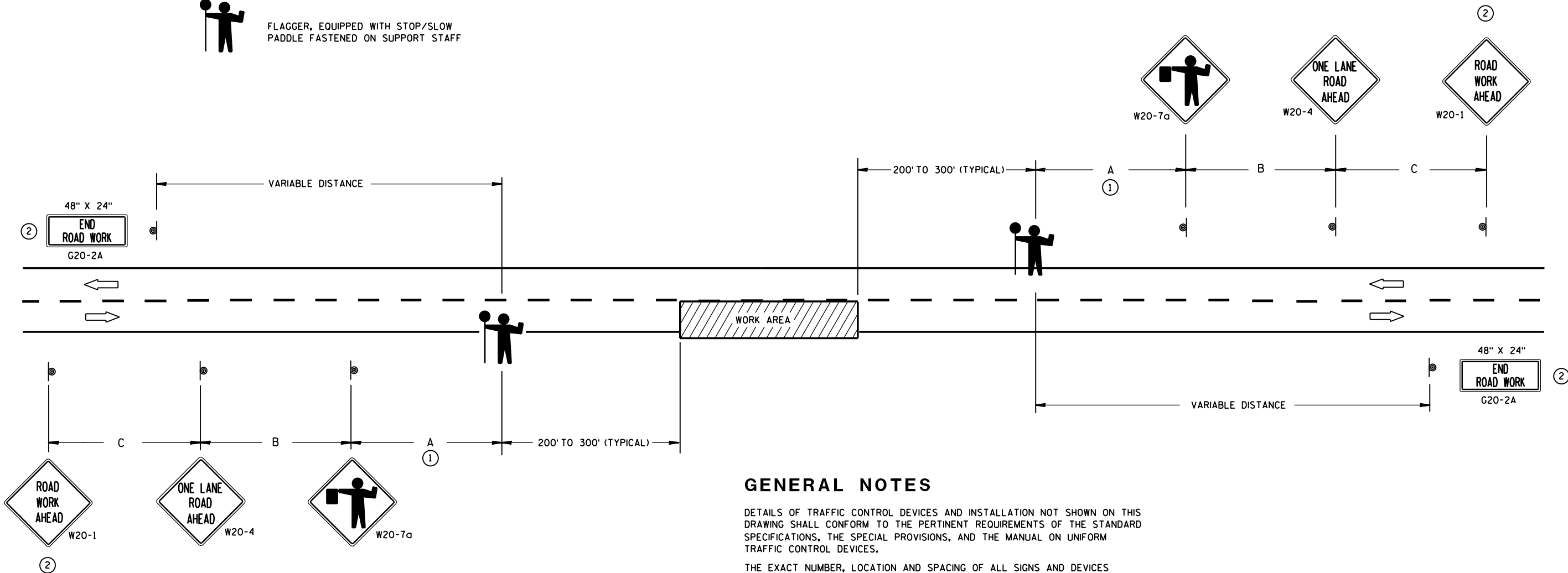
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

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



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



GENERAL NOTES

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

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

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

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

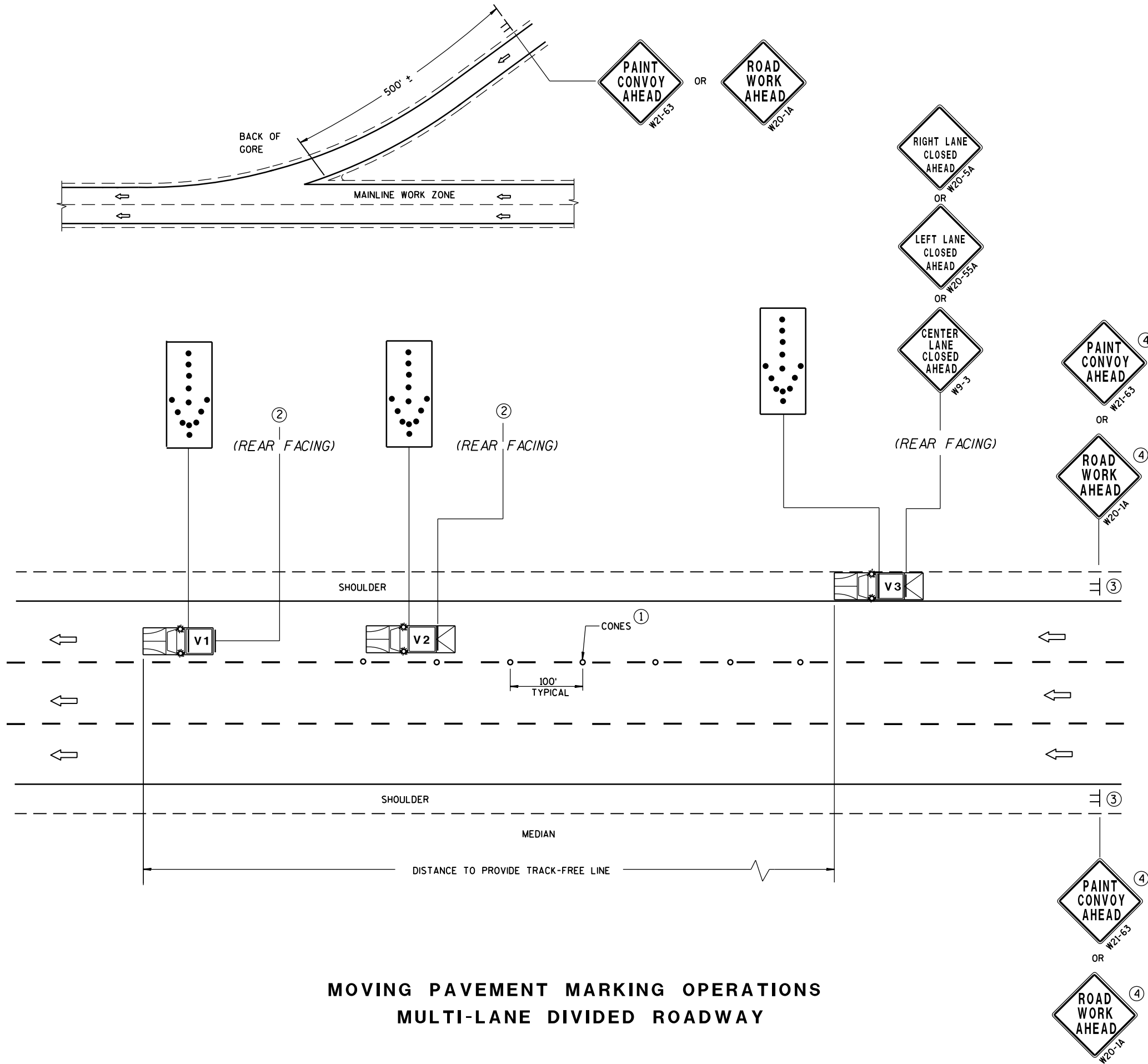
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

- ① FOR A MOVING WORK OPERATION, SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



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 EDGE LINE 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. USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

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

THIS DRAWING SHALL BE USED FOR EDGE LINE OR LANELINE MARKING FOR MULTILANE DIVIDED 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.
 OR 
W21-64 W21-64
- ③ SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.
- ④ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

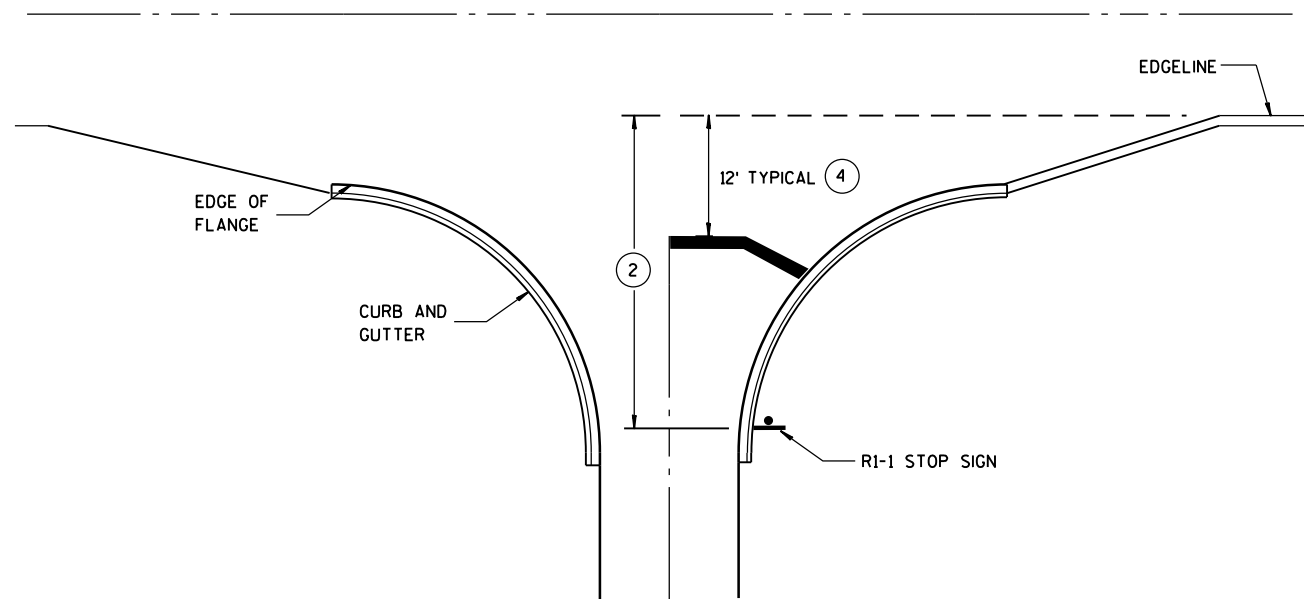
LEGEND

- 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)

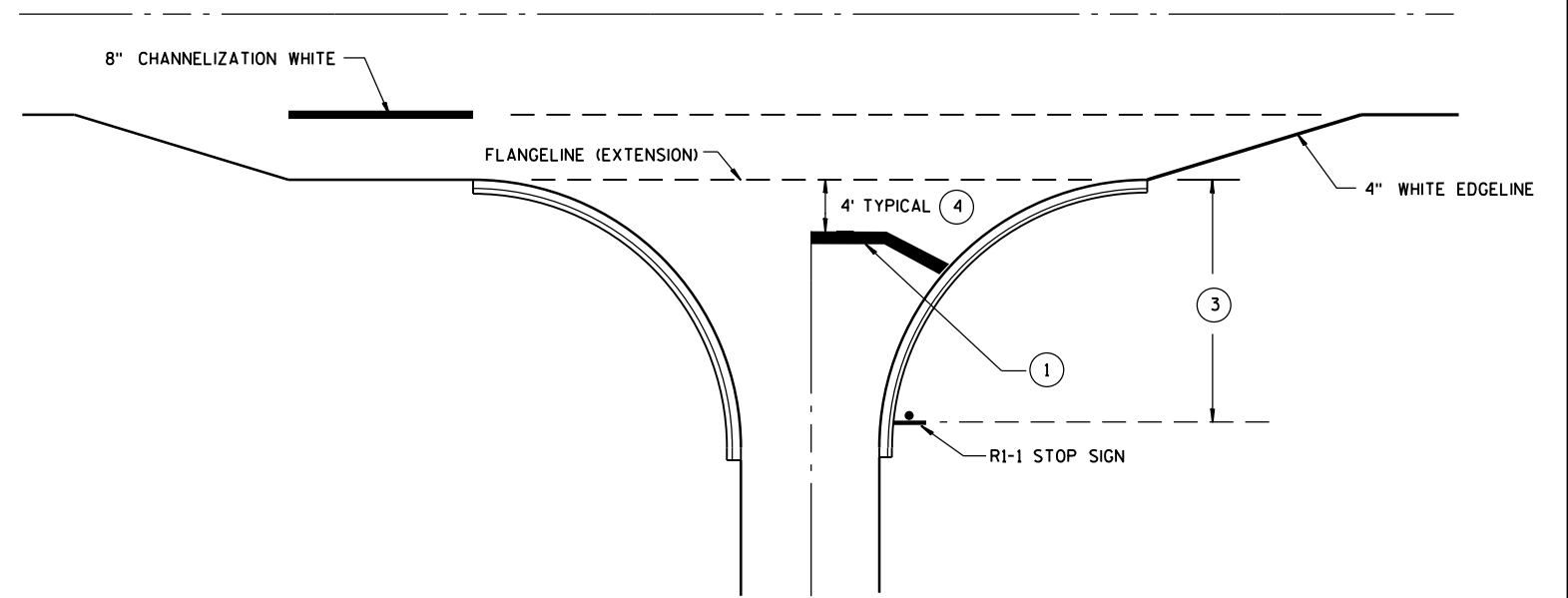
MOVING PAVEMENT MARKING OPERATION
MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

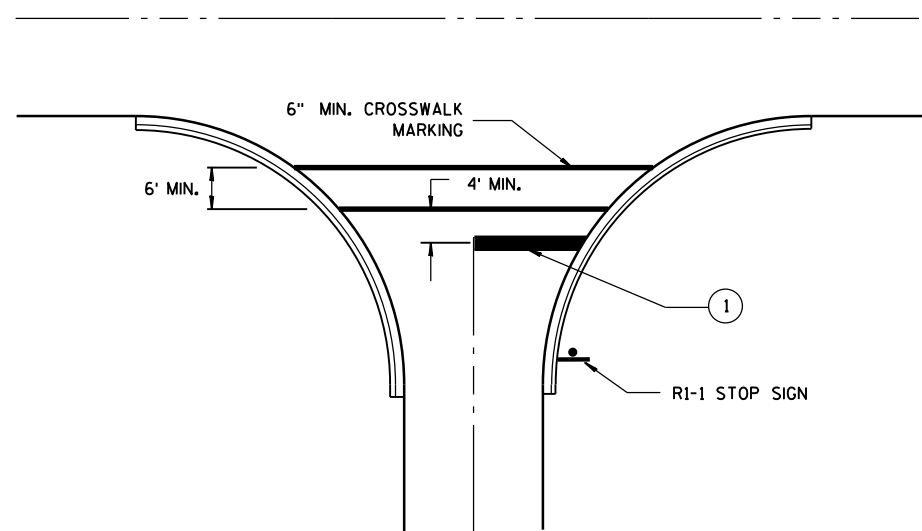
APPROVED
June 2016 /S/ Peter Amakobe Atepe
DATE STATEWIDE WORK ZONE TRAFFIC
FHWA SAFETY ENGINEER



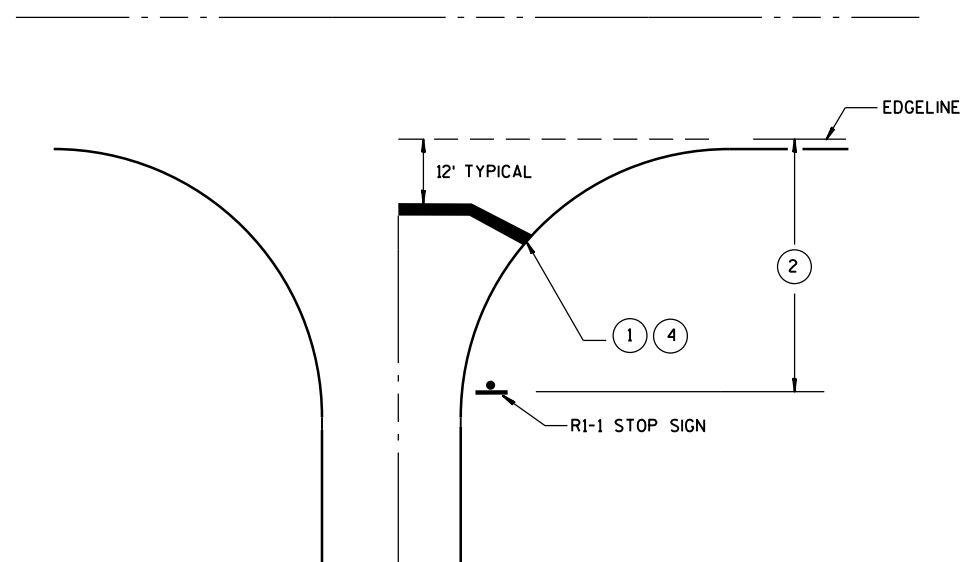
**TYPICAL STOP LINE PAVEMENT MARKING
WITH CURB AND GUTTER**



**TYPICAL STOP LINE PAVEMENT MARKING
FOR SIDEROADS WITH RIGHT TURN LANE**



**TYPICAL STOP LINE PAVEMENT MARKING
FOR SIDEROADS WITH CROSSWALK MARKING**



**TYPICAL STOP LINE PAVEMENT MARKING
WITHOUT CURB AND GUTTER**

GENERAL NOTES

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

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

4-18-2016
DATE

FHWA

/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TRAFFIC CONTROL DRUM
- FLASHING ARROW BOARD
- 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.

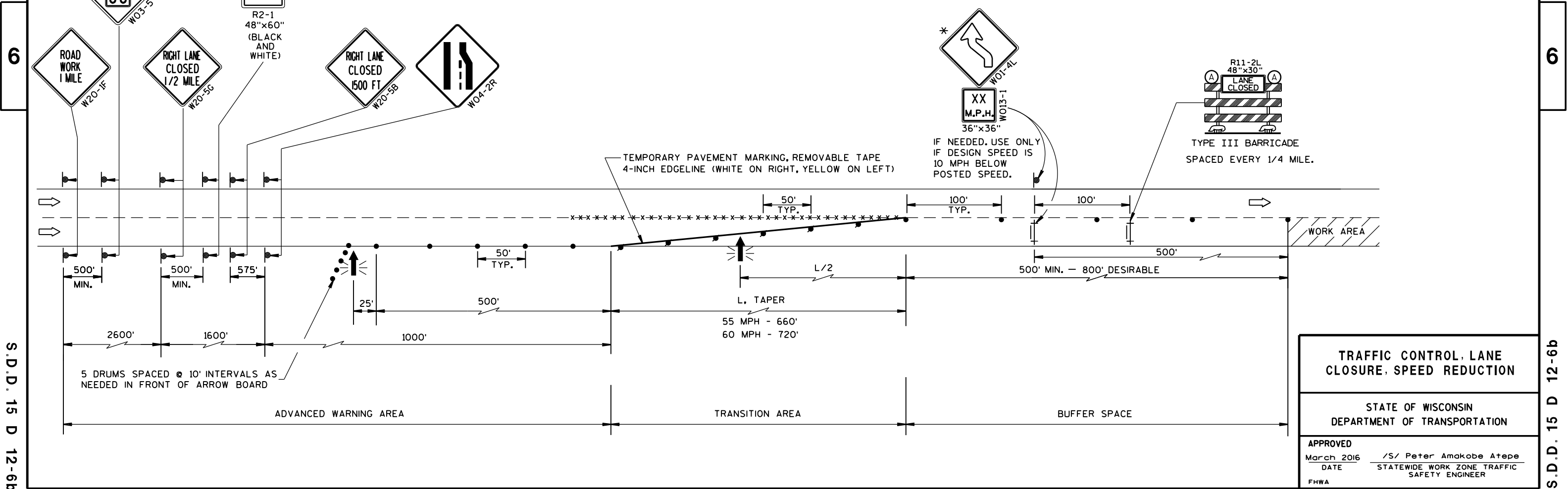
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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

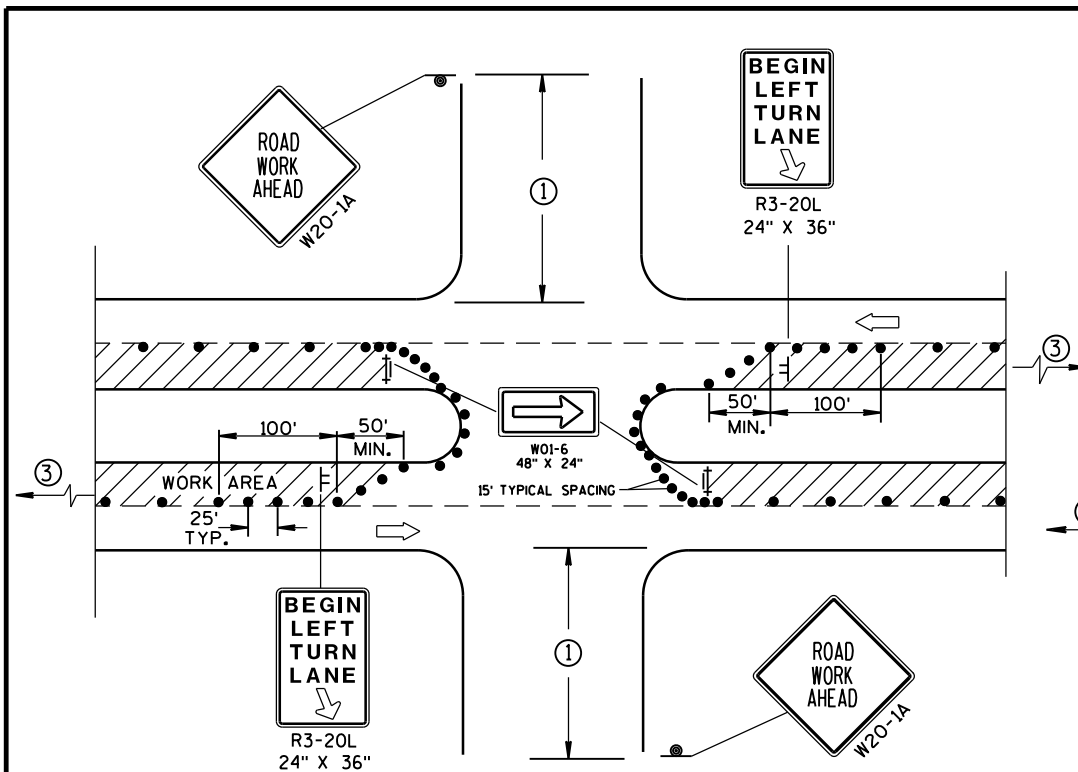
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN 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.

** A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. THERE SHOULD BE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 2 OR 3 MILES. INCLUDE A RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIREABLE) BEYOND THE "END OF ROADWORK" SIGN.

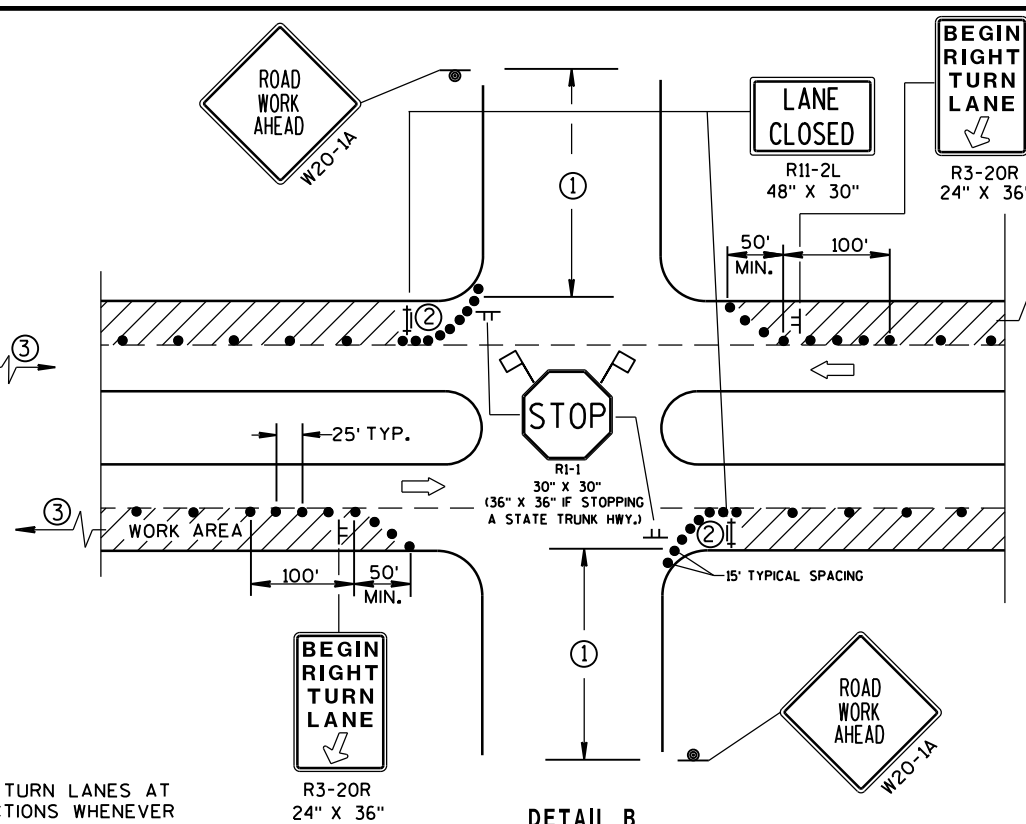


TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED March 2016 DATE	/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA	



DETAIL A
FOR LEFT LANE CLOSURE AT
INTERSECTION OR MEDIAN OPENING

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL B
FOR RIGHT LANE CLOSURE
AT INTERSECTION

GENERAL NOTES

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

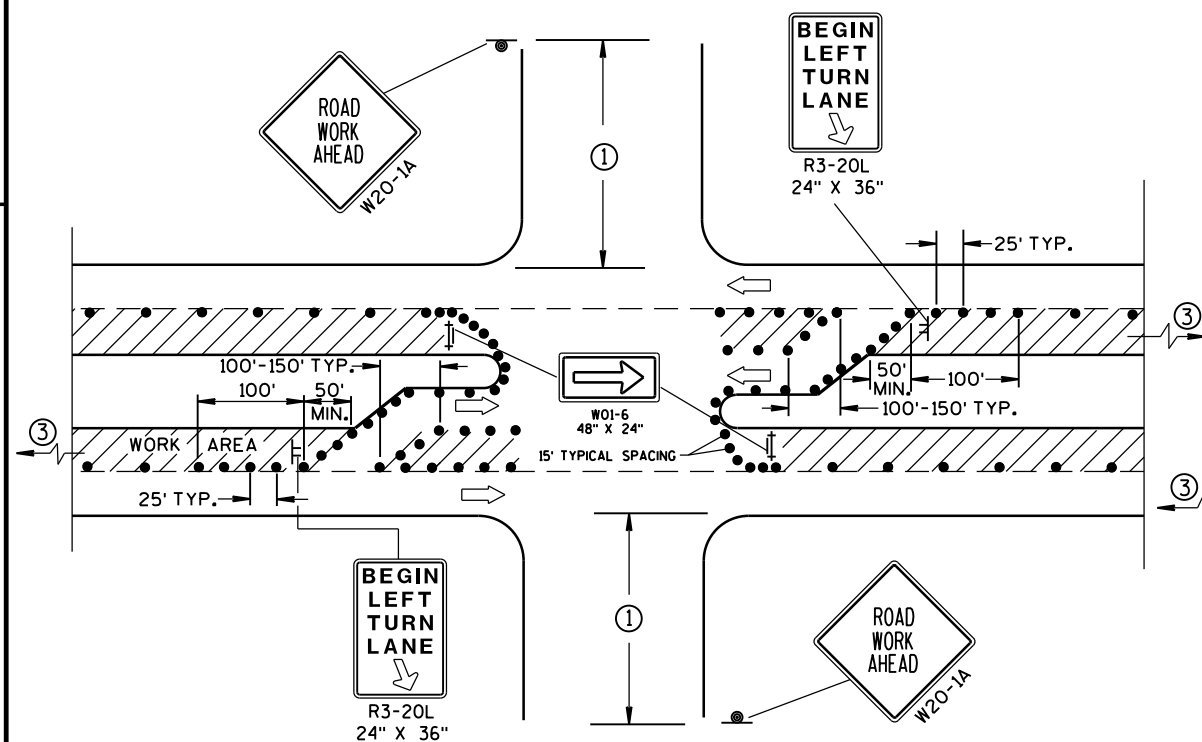
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

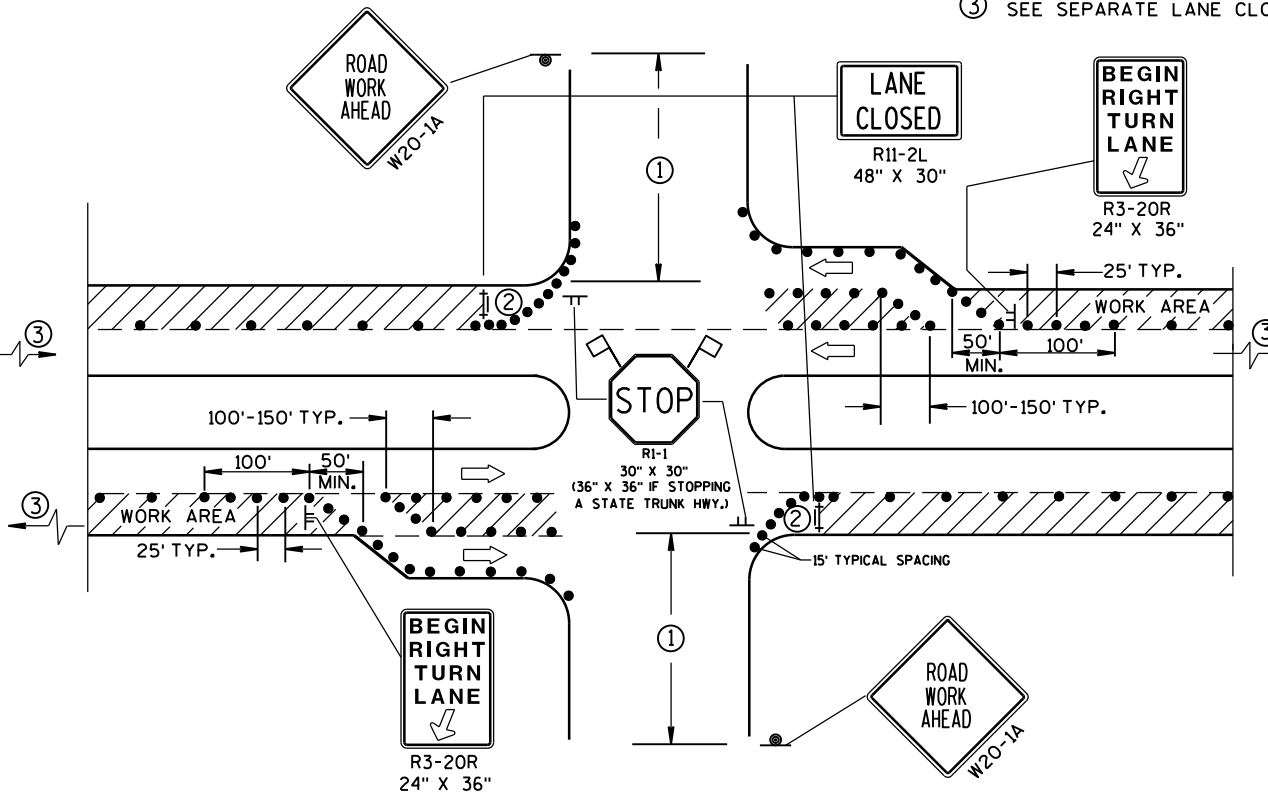
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

- ① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.
- ② ALSO USE BARRICADE AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.
- ③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C
FOR LEFT LANE CLOSURE AT INTERSECTION OR
MEDIAN OPENING (WITH LEFT TURN BAY OPEN)



DETAIL D
FOR RIGHT LANE CLOSURE AT INTERSECTION
(WITH RIGHT TURN BAY OPEN)

LEGEND

- TRAFFIC CONTROL DRUM
- ⊙ SIGN ON PERMANENT SUPPORT
- ⊢ SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- ⊢ TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" WARNING LIGHT (FLASHING)
- ➡ DIRECTION OF TRAFFIC
- ⚑ FLAGS, 16" X 16" MIN., (ORANGE)
- ▨ WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 /S/ Peter Anakobe Atepe
DATE STATEWIDE WORK ZONE TRAFFIC
FHWA SAFETY ENGINEER

LEGEND

- TRAFFIC CONTROL DRUM
- ⦿ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ⚡➡ FLASHING ARROW BOARD
- ▨ WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

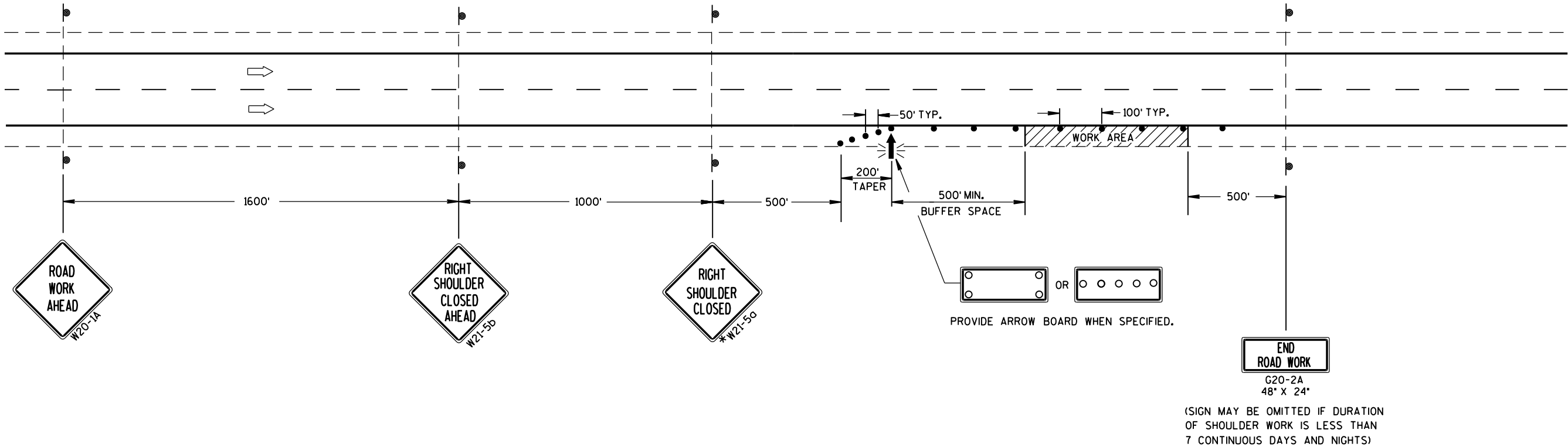
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

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

WHEN A 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.

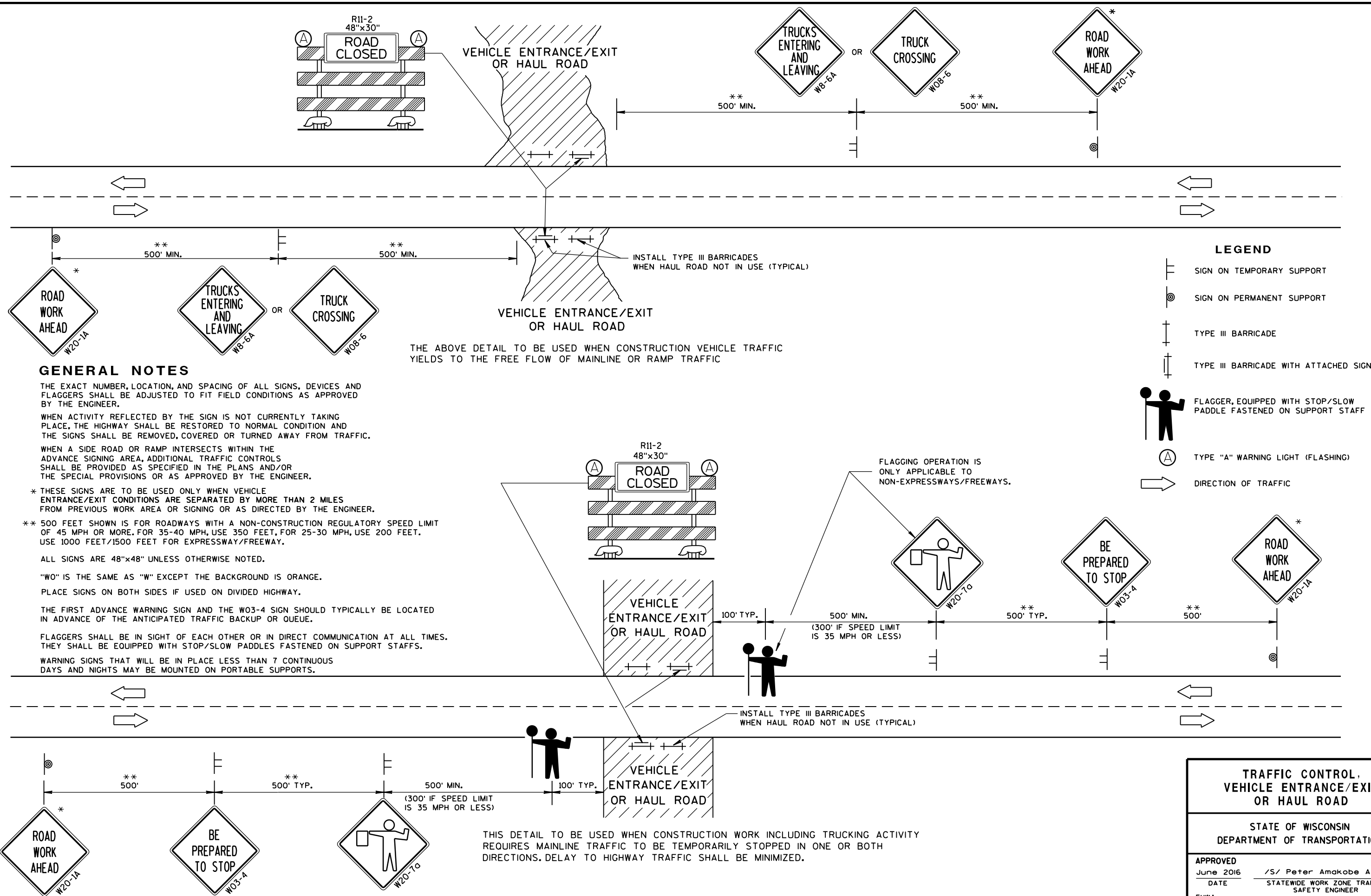
*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL
SHOULDER CLOSURE ON DIVIDED
ROADWAY, SPEEDS GREATER
THAN 40 MPH

STATE OF WISCONSIN
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FHWA SAFETY ENGINEER

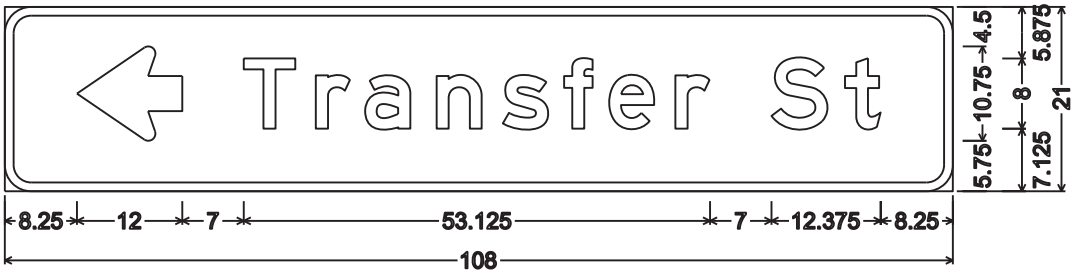


TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD

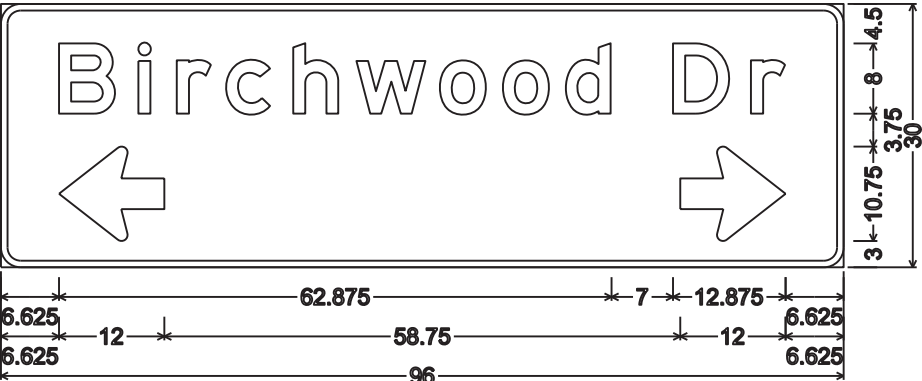
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016
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FHWA

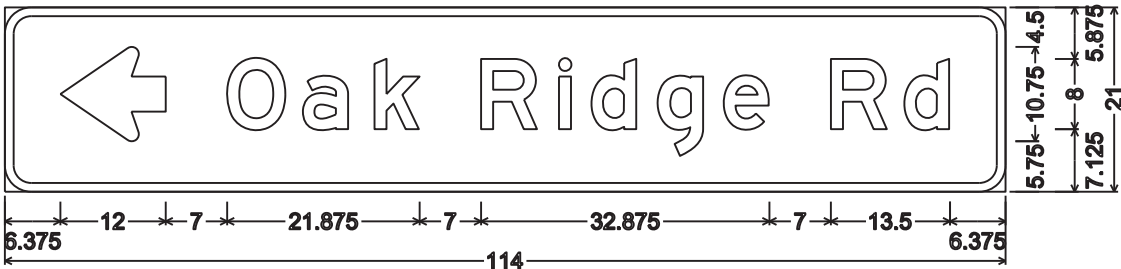
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER



D1-1; 3.000" Radius, 1.000" Border



D1-61; 2.250" Radius, 0.750" Border



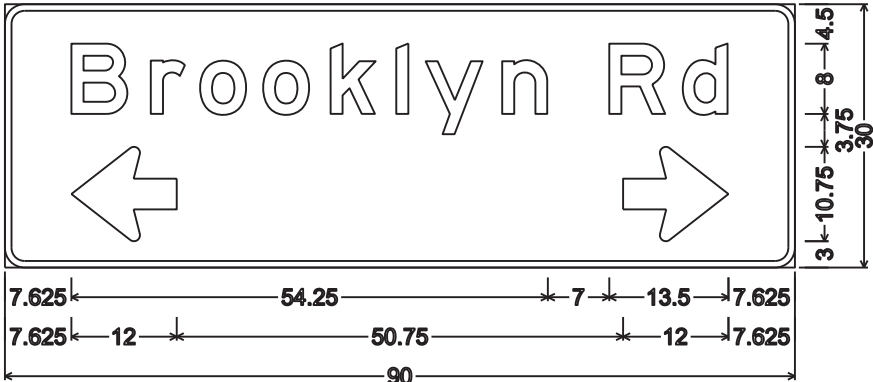
D1-1; 3.000" Radius, 1.000" Border



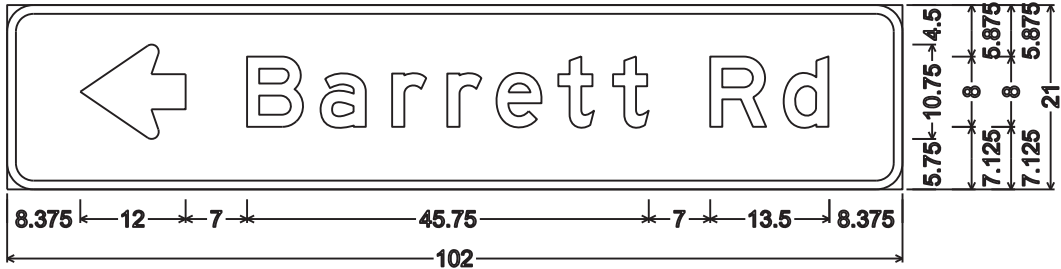
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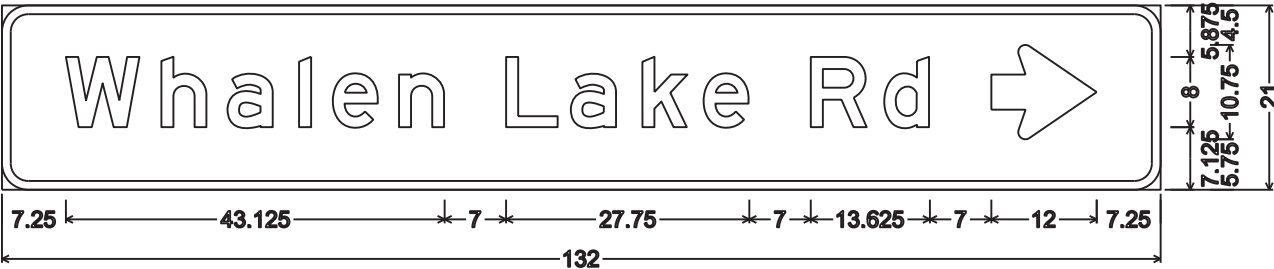
D1-1; 3.000" Radius, 1.000" Border



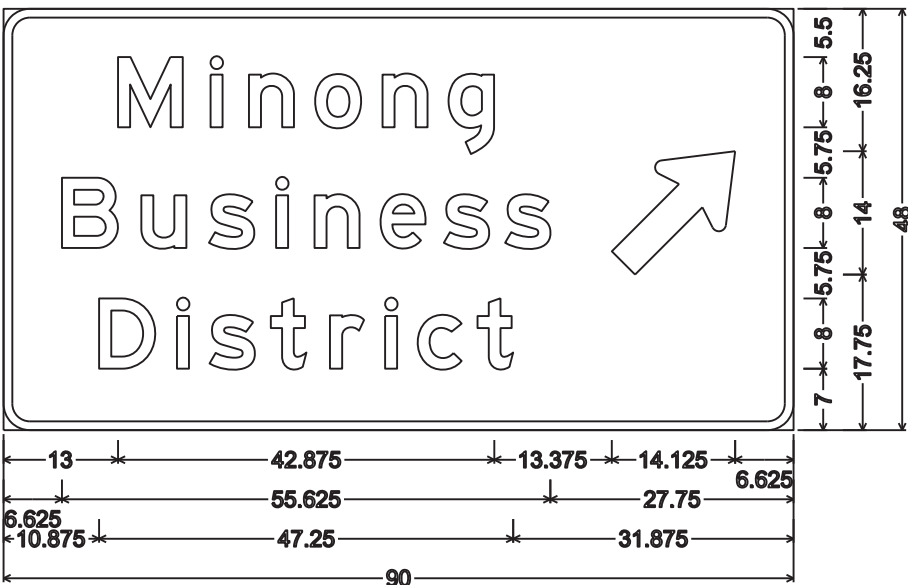
D1-61; 2.250" Radius, 0.750" Border



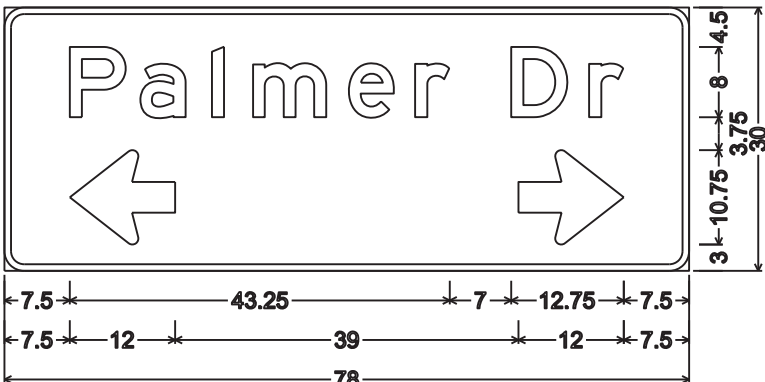
D1-1; 3.000" Radius, 1.000" Border



D1-1; 3.000" Radius, 1.000" Border



D1-3; 3.000" Radius, 1.000" Border

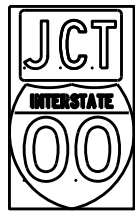


D1-61; 2.250" Radius, 0.750" Border

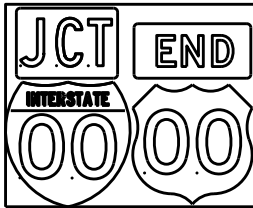
NOTES

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

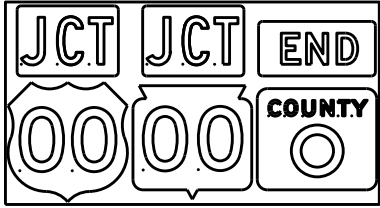
TYPICAL ASSEMBLIES



J1-1



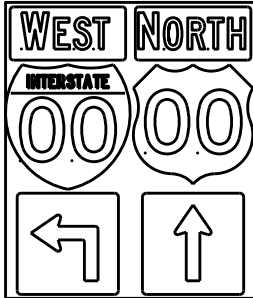
J1-2



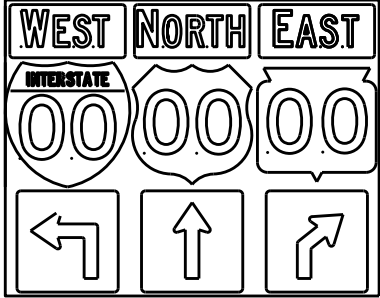
J1-3



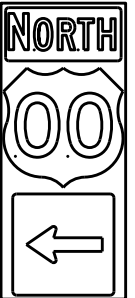
J2-1



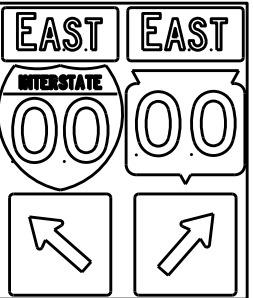
J2-2



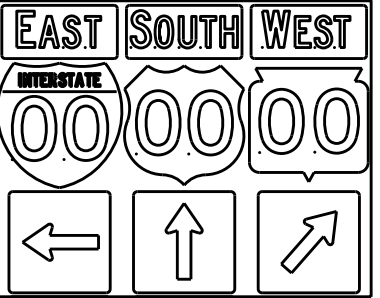
J2-3



J3-1



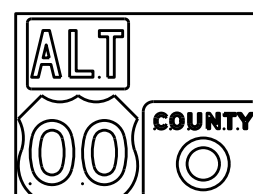
J3-2



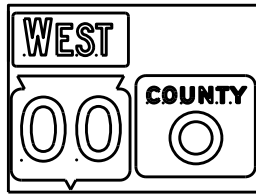
J3-3



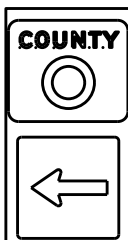
J4-1



J4-2



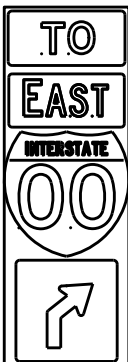
J4-2



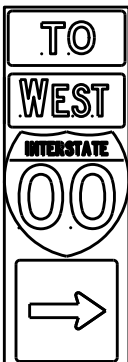
J13-1



J12-1



J32-1



J33-1



J23-1

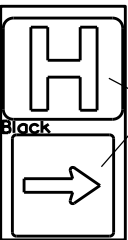


J22-1



JV

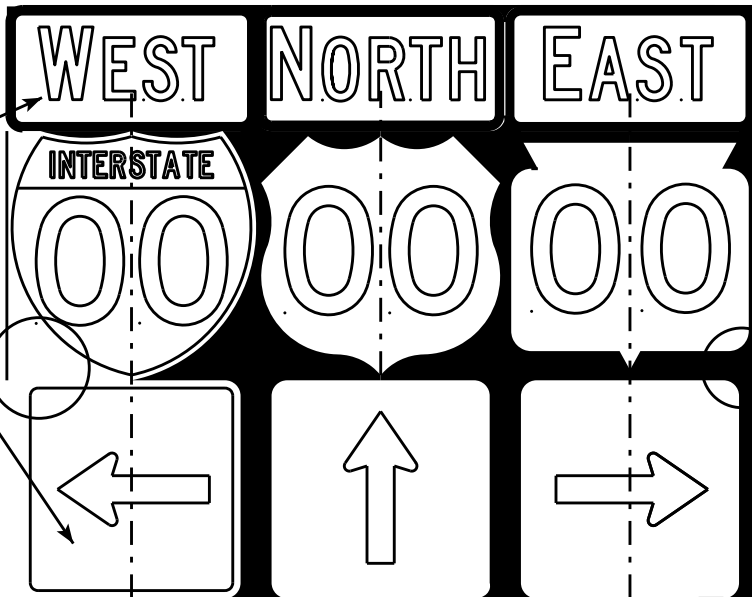
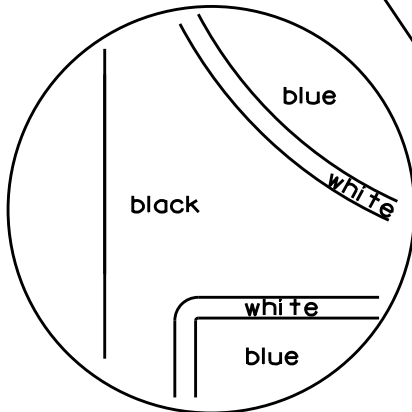
(Typical Vertical J-Assembly
See Note 10 and 11)



JH-1

Blue Background

[blue background
with interstate]



[black background]

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

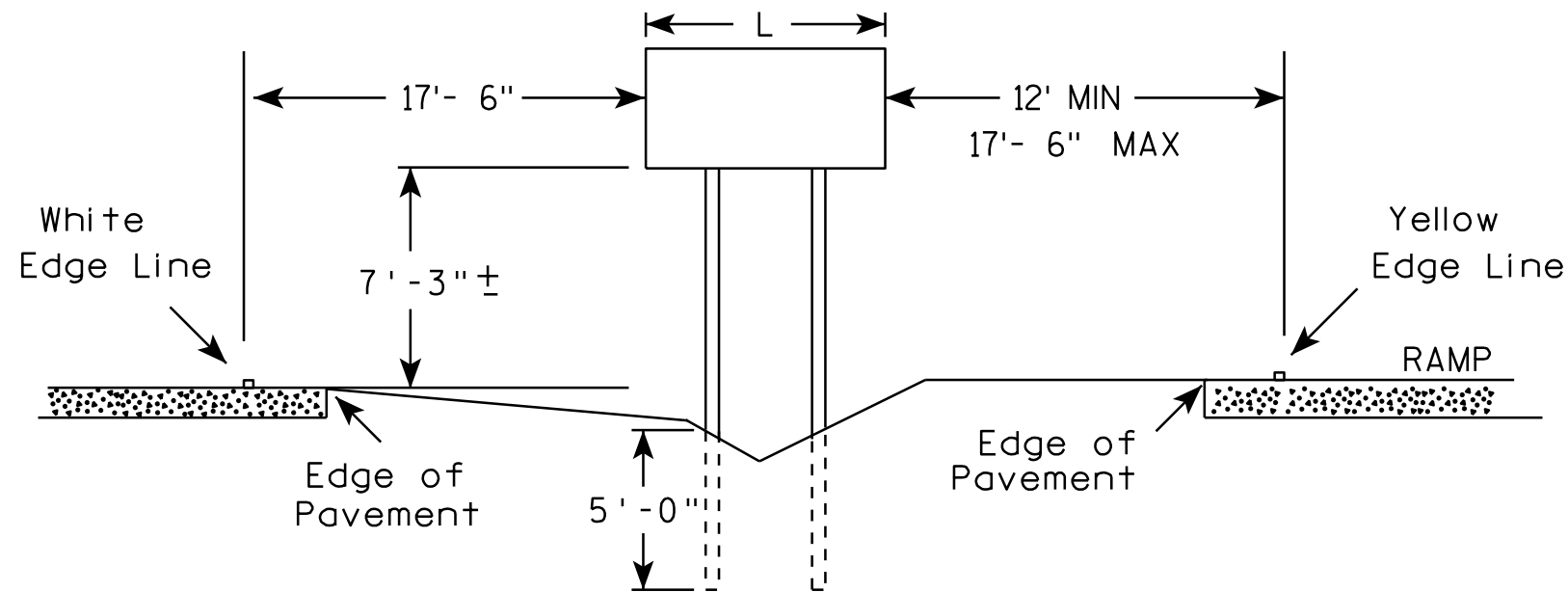
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

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

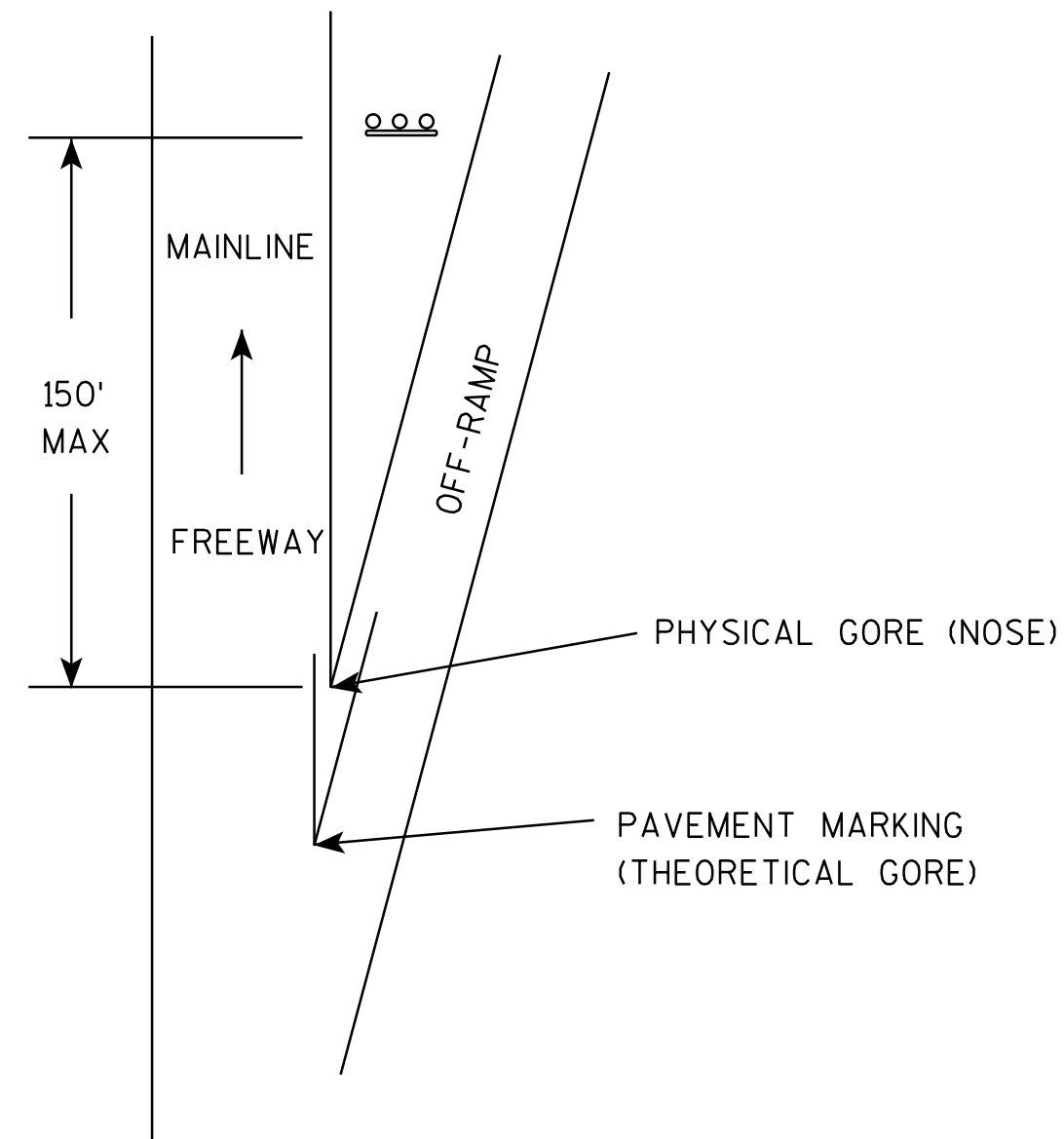
NOTES

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



GENERAL NOTES

1. The 150 foot distance from the physical gore (where pavement ends) will normally provide the offsets as shown.
2. If roadway geometrics permit, the sign may be closer than the 150 foot distance as long as the offsets are maintained.
3. At no time shall the location be greater than 150 feet. If the normal offsets cannot be maintained, they can be reduced to 6 feet from the edge of the paved shoulder (both freeway and ramp).
4. The offset from edge of sign to the yellow edge line on the ramp is shown as a minimum of 12 feet and a maximum of 17 feet, 6 inches. Preference is adhering to the maximum rather than the minimum dimension.
5. When L is equal to or exceeds 10 feet, use 3 posts as per A4-4.
6. The ($\pm$) tolerance for the mounting height is 3 inches.



TYPICAL INSTALLATION
OF TYPE II SIGNS ON
WOOD POSTS IN GORE

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

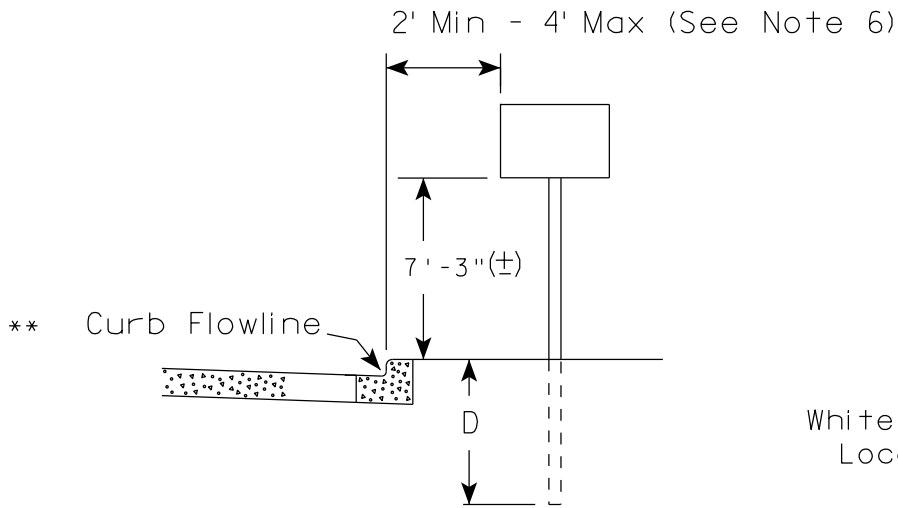
DATE 2/06/14 PLATE NO. A4-2.3

PROJECT NO:

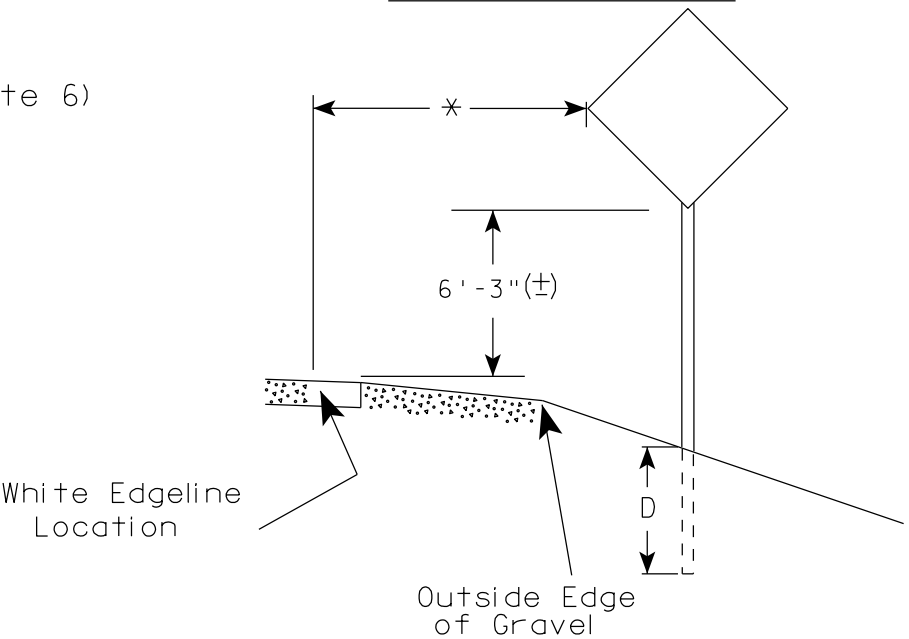
SHEET NO:

E

URBAN AREA

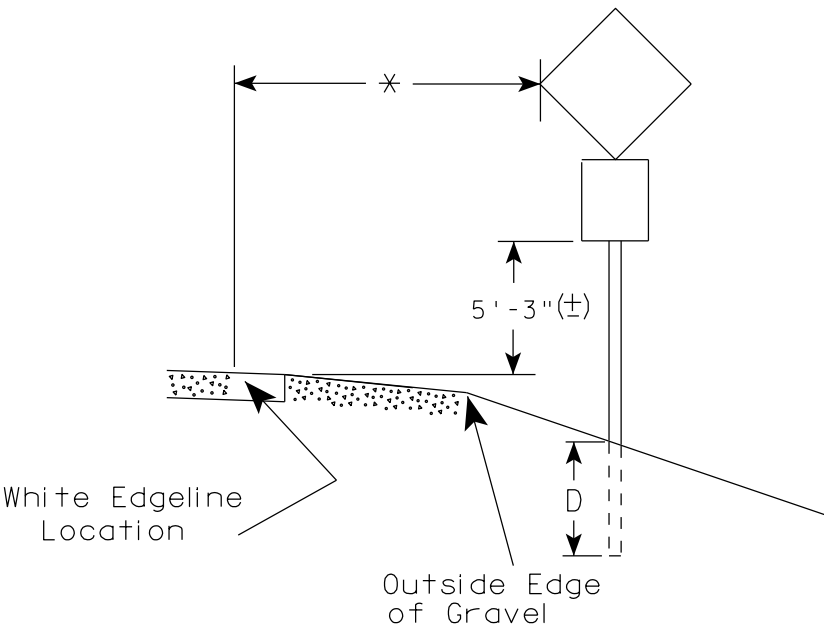
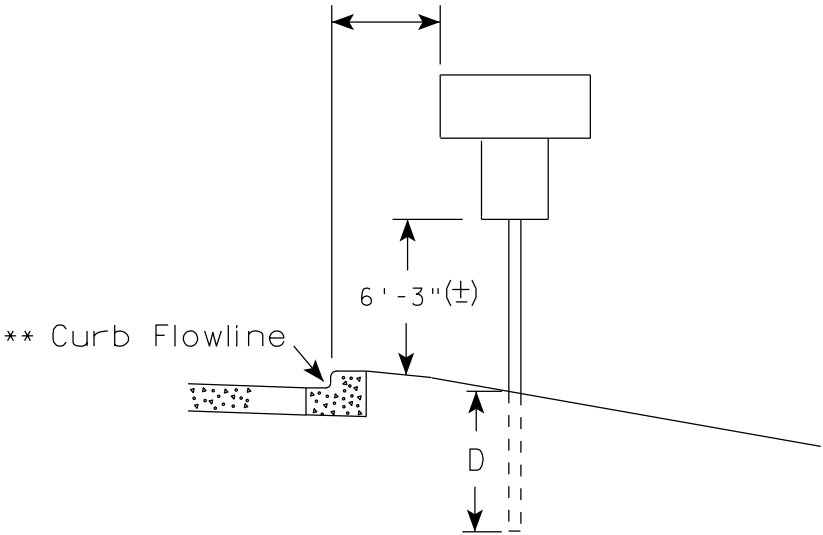


RURAL AREA (See Note 2)



- 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 directed by the Engineer.
 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

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



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.

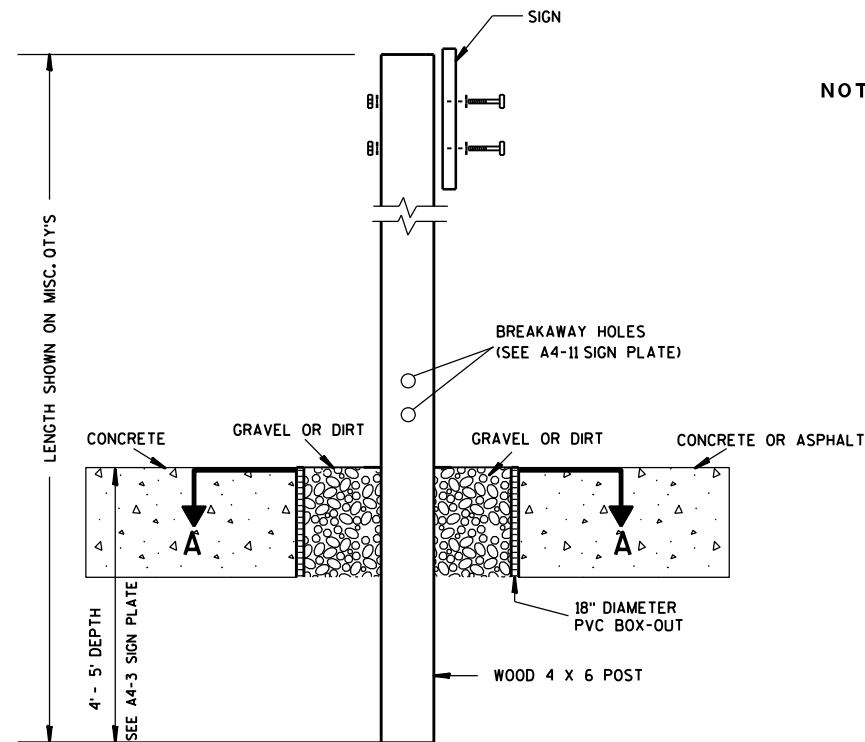
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

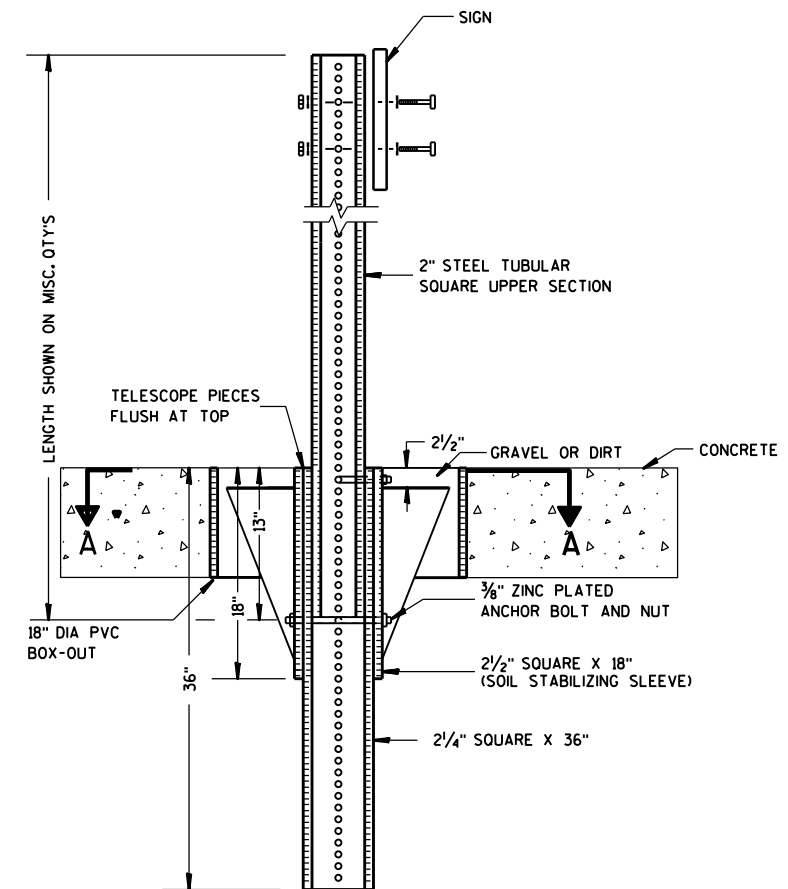
DATE 7/23/15 PLATE NO. A4-3.20



ELEVATION VIEW

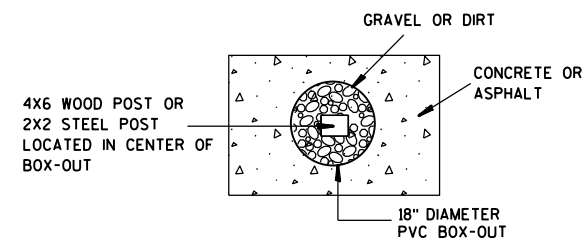
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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



ELEVATION VIEW

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



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST
BOX-OUTS
A4-3B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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

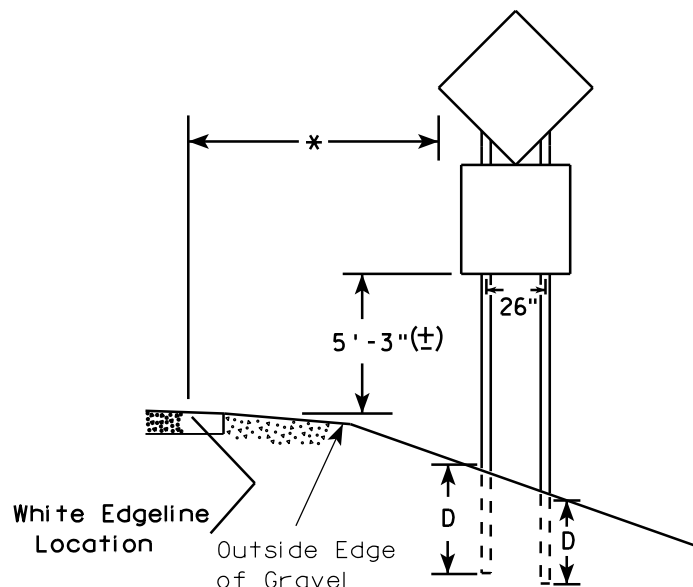
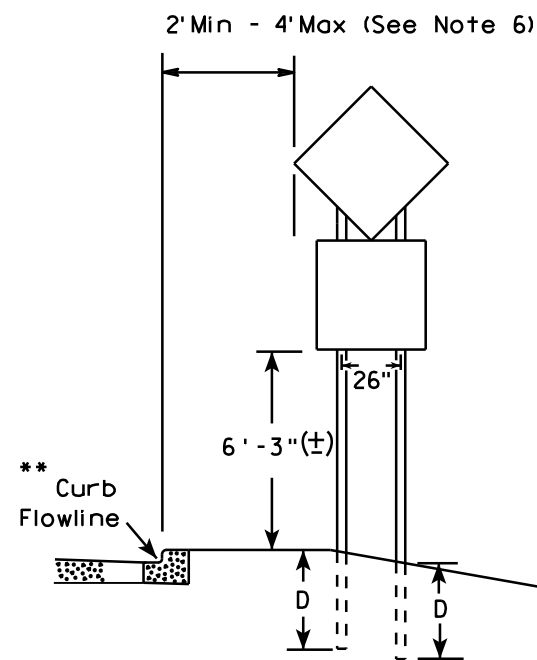
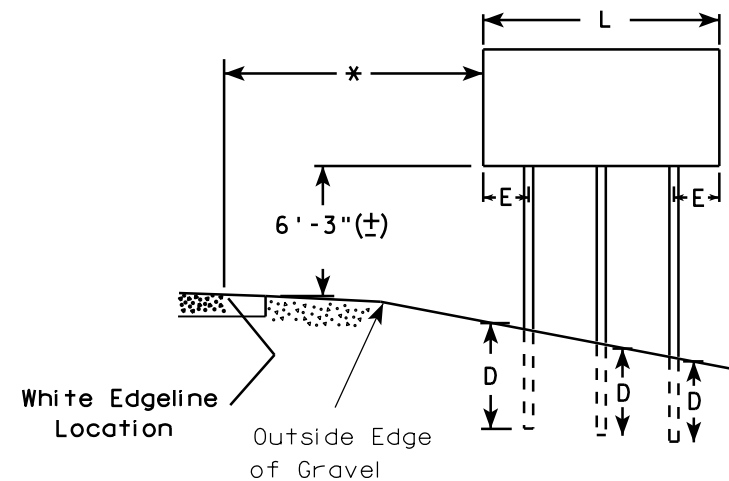
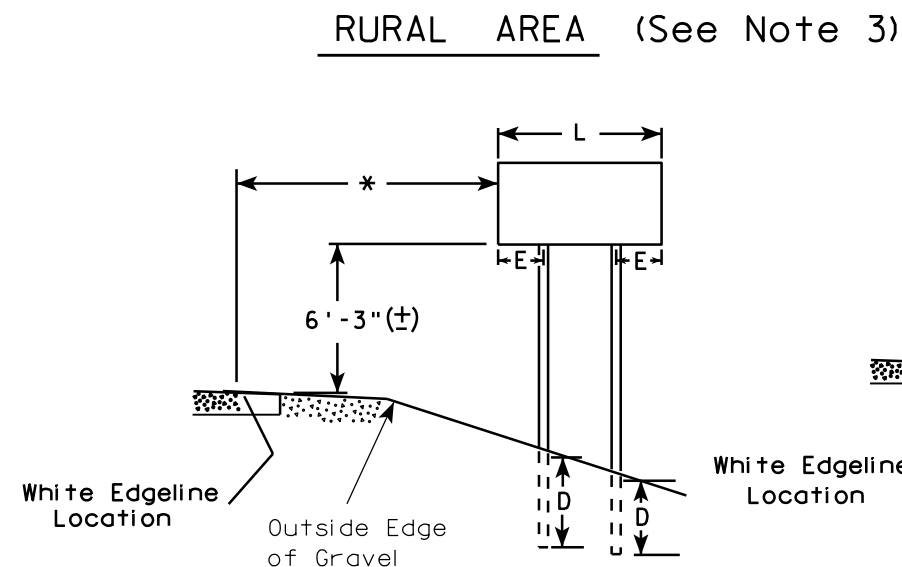
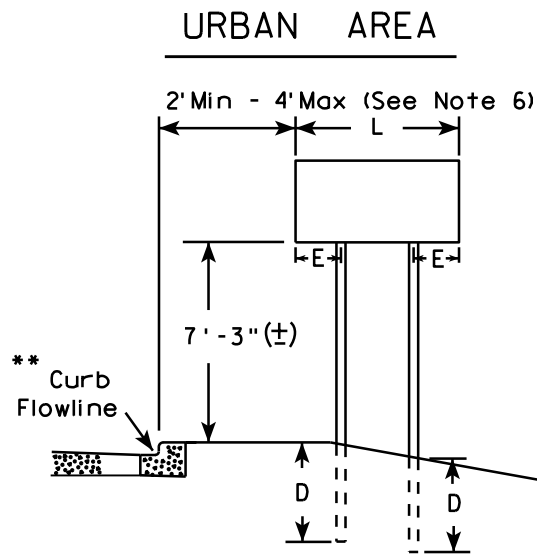
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



48" DIAMOND WARNING SIGN

48" DIAMOND WARNING SIGN

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

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

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

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

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

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

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

POST EMBEDMENT DEPTH

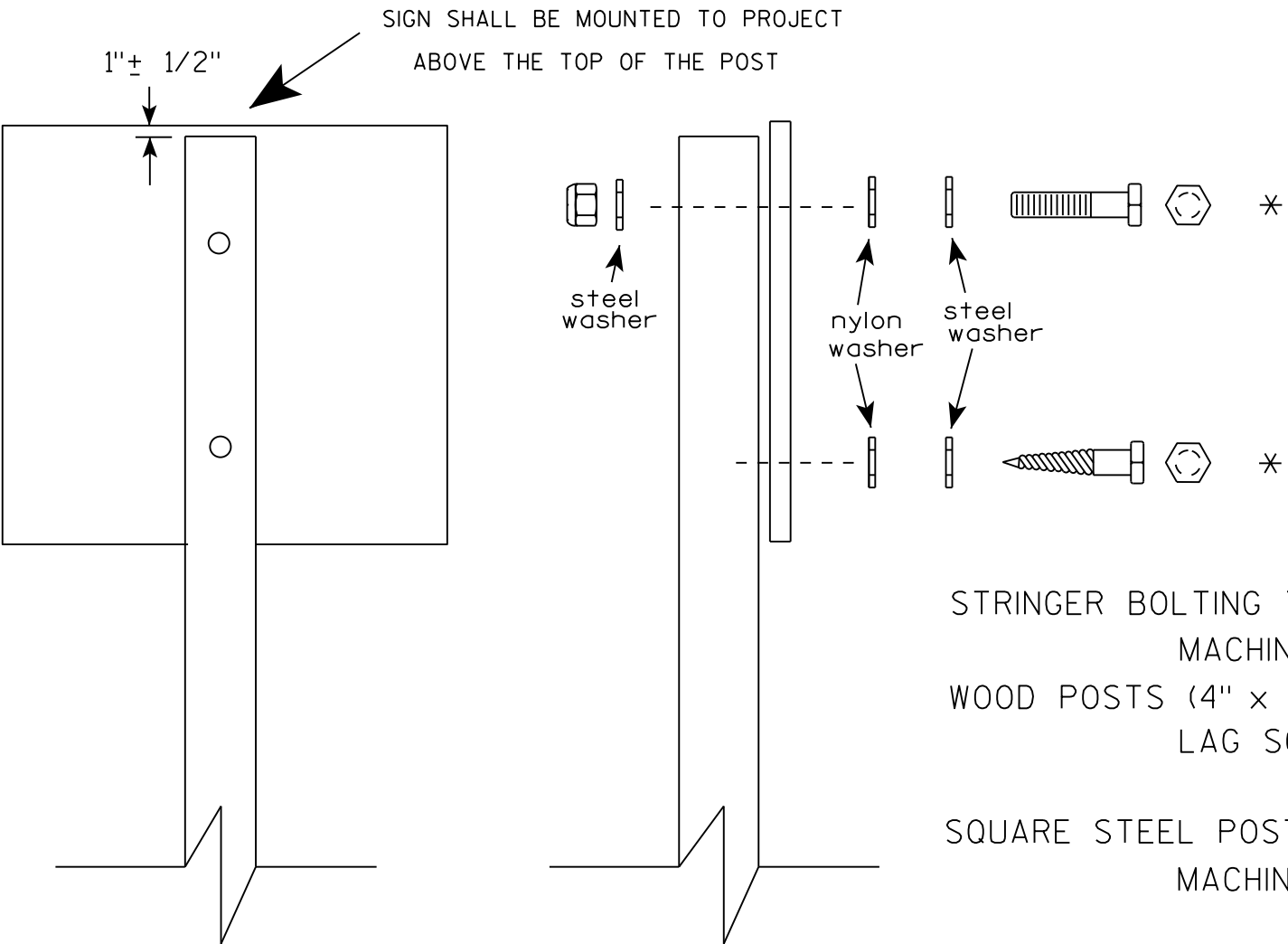
Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4.14



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.

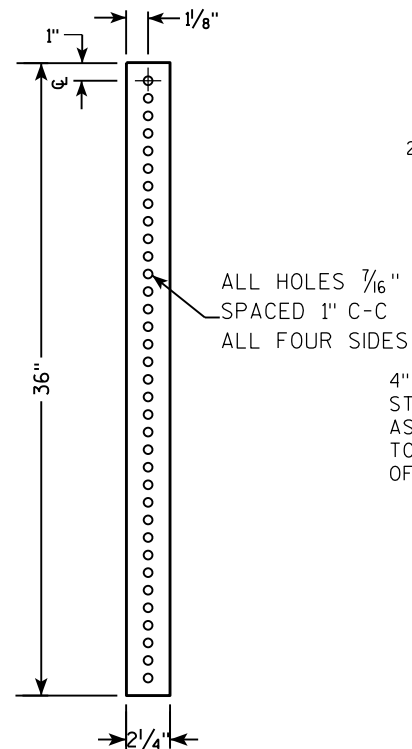
ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

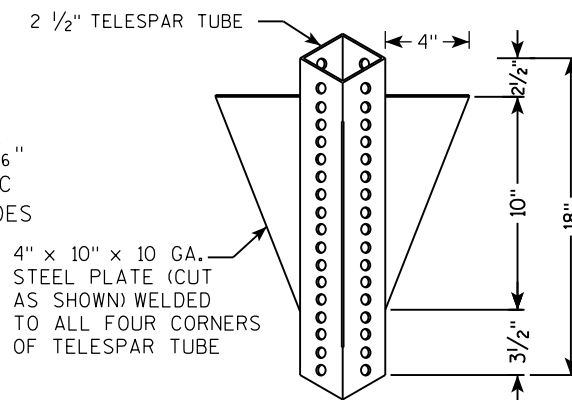
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

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

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



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



LENGTH SHOWN ON MISC. QTY'S
 18" DIA SCHEDULE 40 PVC BOX-OUT
 TELESCOPE PIECES FLUSH AT TOP
 2" STEEL TUBULAR SQUARE UPPER SECTION
 ALL HOLES $\frac{7}{16}$ " SPACED 1" C-C ALL FOUR SIDES
 $\frac{3}{8}$ " ZINC PLATED CORNER ANCHOR BOLT AND NUT
 2" GRAVEL OR DIRT
 $\frac{3}{8}$ " ZINC PLATED ANCHOR BOLT AND NUT
 2" SQUARE X 18" (SOIL STABILIZING SLEEVE)
 2" SQUARE X 36"
 SEE SIGN PLATE A4-8 FOR BOLT WASHER, & NUT MATERIAL
 SIGN

LENGTH SHOWN ON MISC. QTY'S

TELESCOPE PIECES FLUSH AT TOP

2" STEEL TUBULAR SQUARE UPPER SECTION

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

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

1"

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

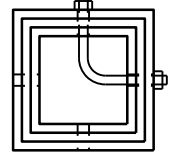
2 1/2" SQUARE X 18" (SOIL STABILIZING SLEEVE)

2 1/4" SQUARE X 36"

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

SIGN

3/8" ZINC PLATED CORNER
ANCHOR BOLT AND NUT



DIRECTION
OF TRAFFIC

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

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

DATE 2/05/15 PLATE NO. A4-9.9

PROJECT NO:

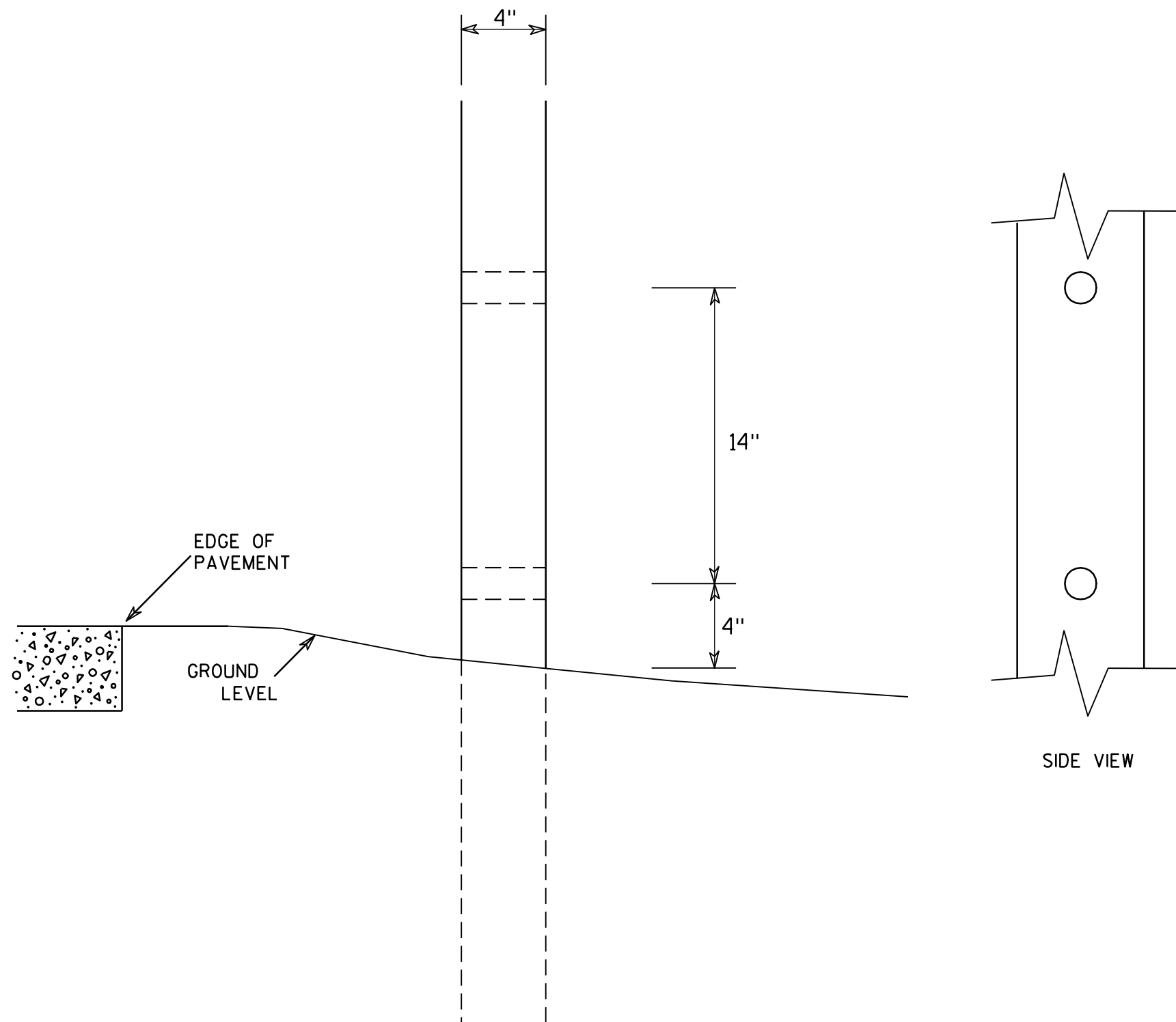
HWY:

COUNTY:

SHEET NO:

11

7



GENERAL NOTES

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

7

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chester J. Spang
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

PROJECT NO:

HWY:

COUNTY:

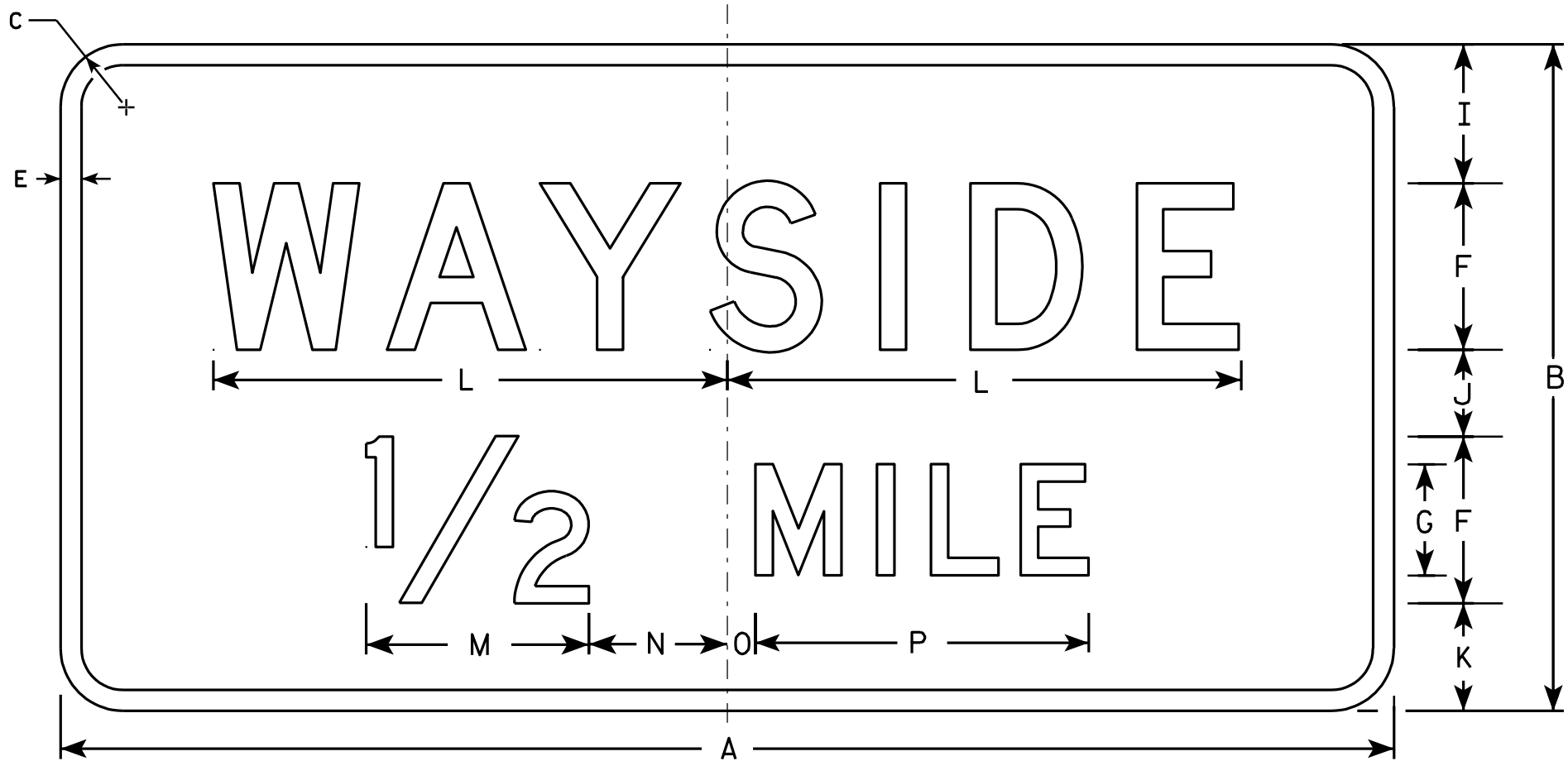
SHEET NO:

E

58, 59, 60, 61, 62, 63

7

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



D5-61

Metric equivalent
for this sign is:

SIZE	
1	
2	1200 mm X 600 mm
3	
4	1950 mm X 1050 mm
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		
1																												
2	48	24	2 1/4		3/4	6	4	6	5	3 1/8	3 7/8	18 1/2	8	5	1	12											8.0	0.72
3																												
4	78	42	3		1	10	7	10 1/2	8 3/4	5 3/4	7	30 1/8	14	8 3/4	1 3/4	21											22.8	2.05
5																												

STATE PROJECT NUMBER:

STANDARD SIGN
D5-61

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Charles J. Spang
for State Traffic Engineer

DATE 1/09/02
PLATE NO. D5-61.9

SHEET NO:

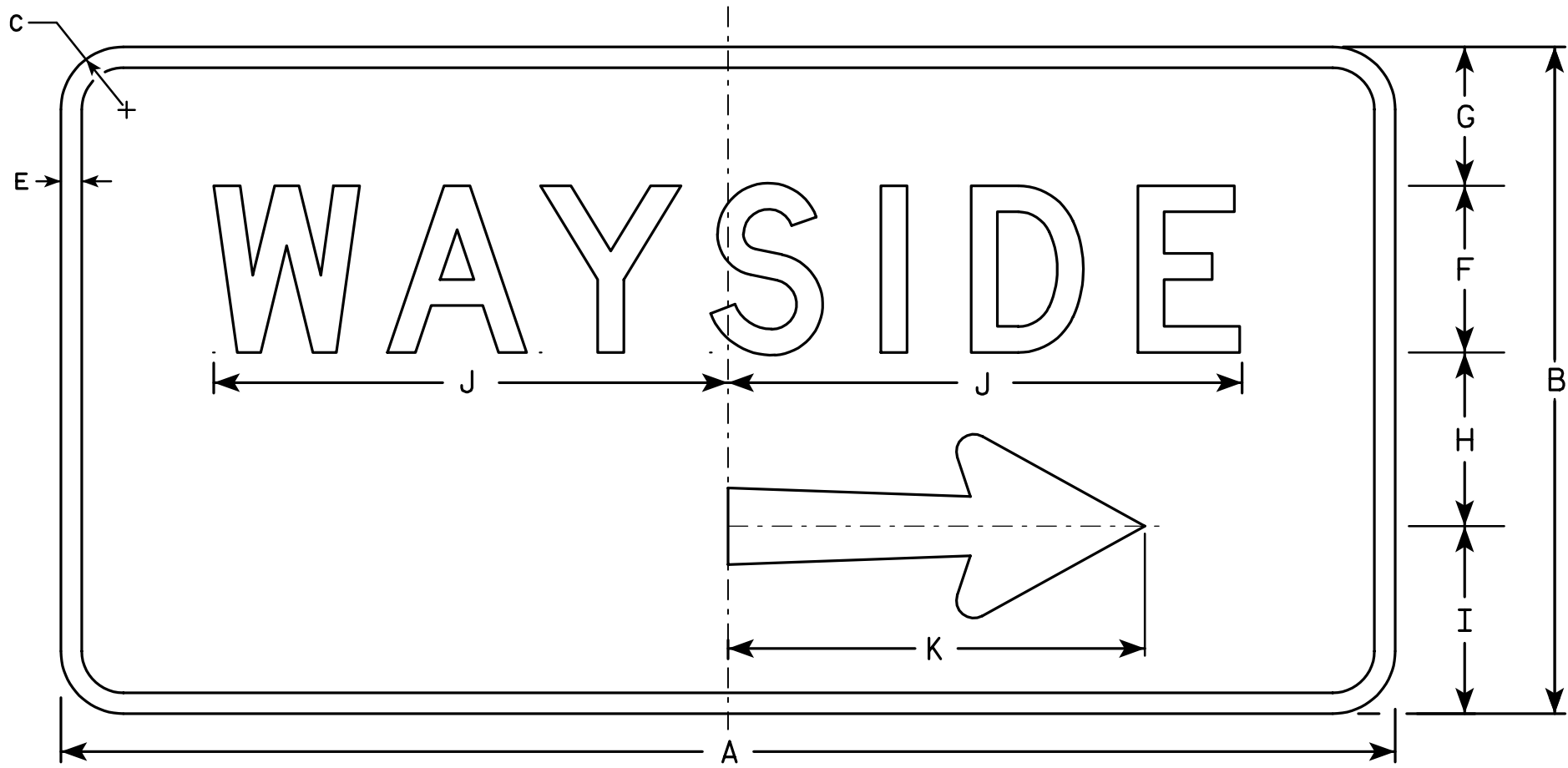
E

- NOTES
- Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
 - Color:
Background - Blue
Message - White
 - Message Series - D
 - 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.

58, 59, 60, 61, 62, 63

7

LEVELS ON - 2, 3, 5, 6, 14, 10, 14



D5-62R

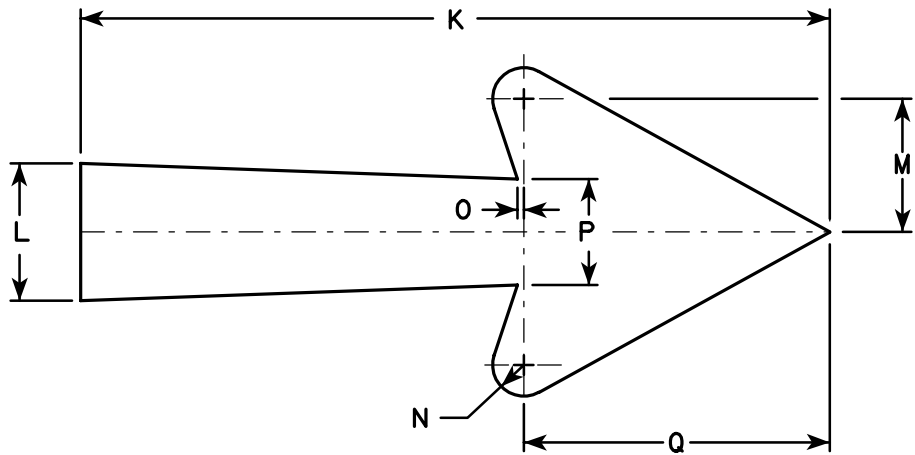
Metric equivalent for this sign is:

SIZE	
1	
2	1200 mm X 600 mm
3	
4	1950 mm X 1050 mm
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	48	24	2 1/4		3/4	6	4	6 1/4	6 3/4	18 1/2	15	2 3/4	3 1/8	5/8	1/8	2 1/8	6 1/8										8.0	0.72
3																												
4	78	42	3		1	10	8 3/4	11	12 1/4	30 1/8	26 1/4	4 3/4	4 5/8	1 1/8	1/4	3 3/4	10 3/4										22.8	2.05
5																												

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Blue
Message - White
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. D5-62L is the same as D5-62R except that the arrow is rotated 180° about the vertical center line.



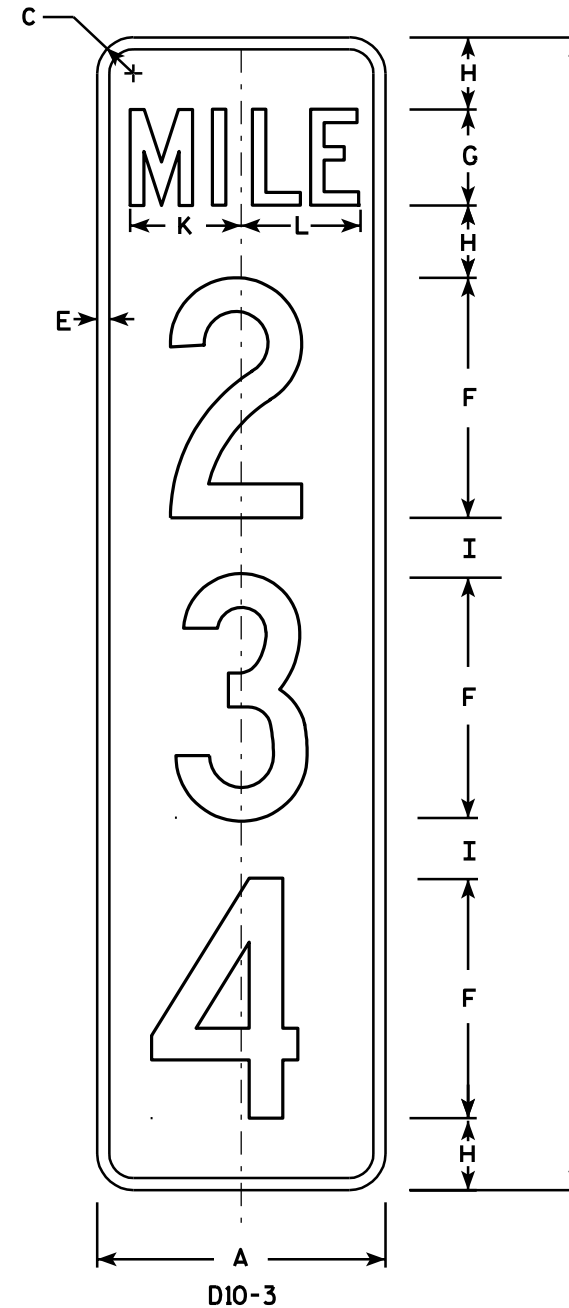
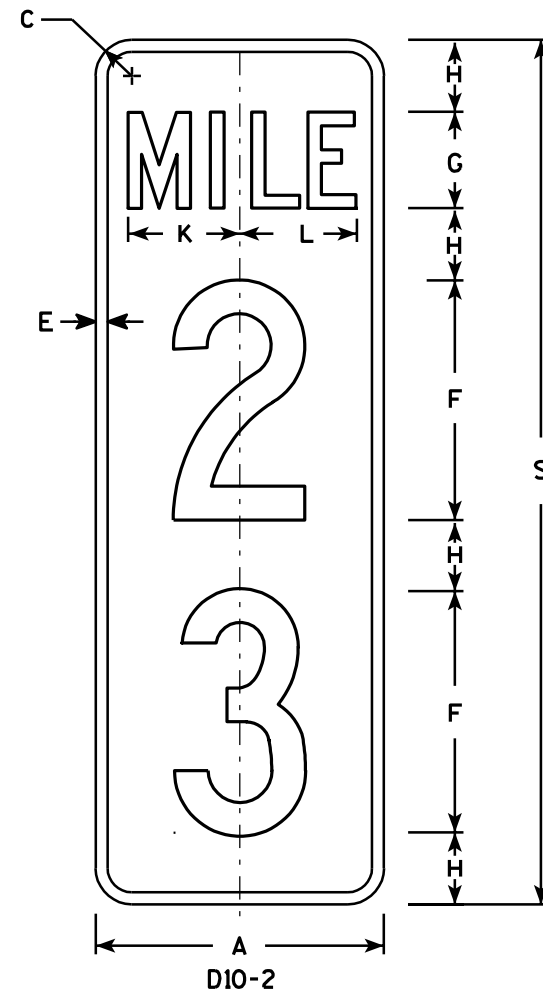
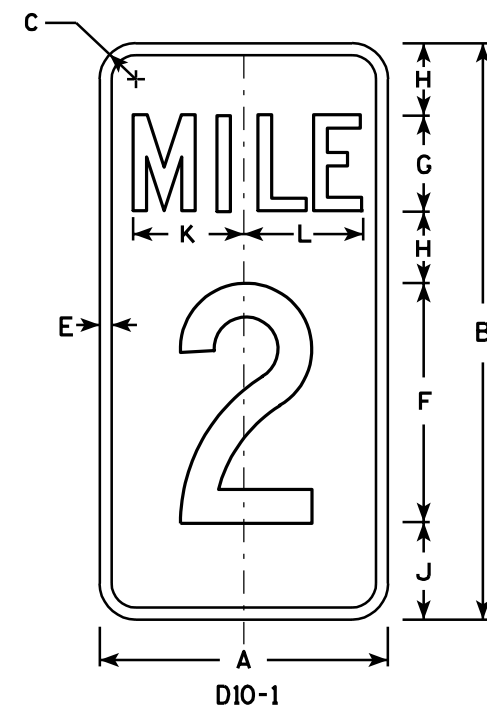
Arrow Detail

STANDARD SIGN
D5-62

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Christa J. Spang*
for State Traffic Engineer

DATE 1/09/02 PLATE NO. D5-62.10



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
 - Background - Green
 - Message - White - Type H Reflective
3. Message Series - 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. Optically adjust numerals about the centerline of the sign to achieve proper balance.

7

Metric equivalent
for this sign is:

PHY. SIZE	
12 X 24	300 mm X 600 mm
12 X 36	300 mm X 900 mm
12 X 48	300 mm X 1200 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
1																										
2																										
3																										
4	12	24	1 1/2		1/2	10	4	3	2 1/2	4	4 5/8	4 7/8							36	48						
5	12	24	1 1/2		1/2	10	4	3	2 1/2	4	4 5/8	4 7/8							36	48						

D10-1	D10-2	D10-3
Area sq. ft.	Area sq. ft.	Area sq. ft.
2.0	3.0	4.0
Area m ²	Area m ²	Area m ²
.19	.28	.38

STANDARD SIGN
D10-1 , D10-2 & D10-3

WISCONSIN DEPT OF TRANSPORTATION

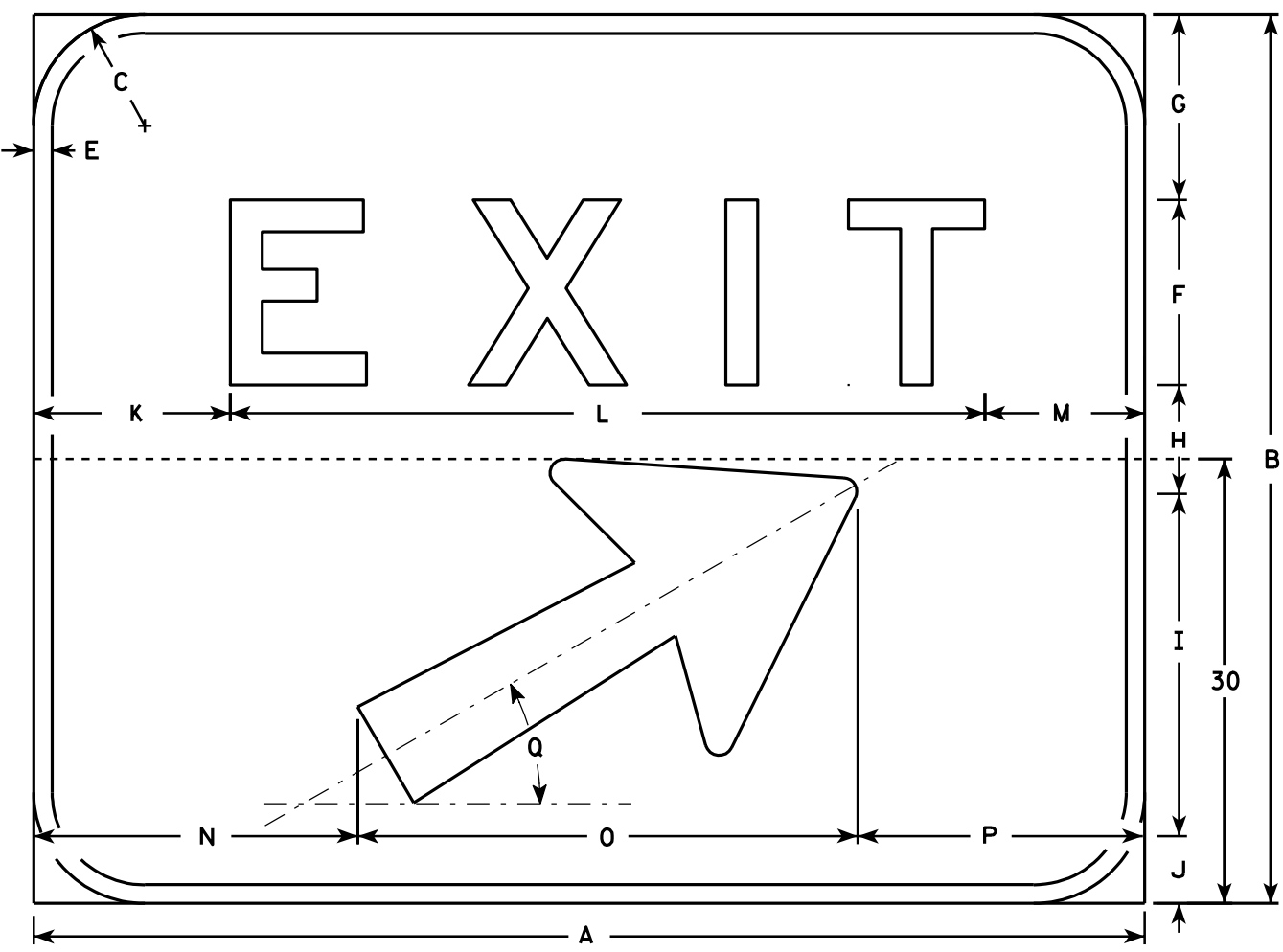
APPROVED *Charles J. Spang*
for Director, Office of Traffic

DATE 1/16/02 PLATE NO. D10-3.2

PROJECT NO:

SHEET NO:

E



E5-1

NOTES

- 1. Sign is Type II - Type H reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
Background - Green
Message - White (Type H reflective)
- 3. Message Series - E
- 4. Corners may be square or rounded but borders shall be rounded as shown.
- 5. Base material for this sign shall be plywood and shall be split into two seperate pieces for the 72 x 60 size as shown on the detail by the dashed line (-----).
- 6. Arrow is Type "A" from sign plate A1-1.
- 7. As per the Standard Spec's, this sign shall not have a vertical joint.

Metric equivalent for this sign is:

SIZE	
1	
2	
3	
4	1500 mm X 1200 mm
5	1800 mm X 1500 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2																												
3																												
4	60	48	6		1	10	10	5 7/8	18 1/2	3 5/8	10 5/8	40 3/4	8 5/8	17 1/2	27	15 1/2	30°										20.0	1.80
5	72	60	6		1	12	12	10	18 1/2	7 1/2	13 1/4	48 1/2	10 1/4	23 1/2	27	21 1/2	30°										30.0	2.70

STANDARD SIGN
E5 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Christa J. Spang
for State Traffic Engineer

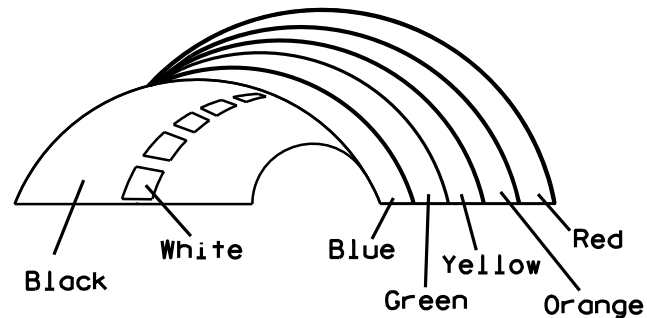
DATE 6/22/00 PLATE NO. E5-1.8

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

Background Colors of Symbol*



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

NOTES

- 1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:
 - Background - White
 - Message - (See Note 5)
- 3. Message Series - (See Note 6)
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Border - Blue
 - Line 1- Red
 - Line 2 - Black
 - Line 3-5 - Blue
- 6. Line 1- Dutch 8011L
 - Line 2 - Series E
 - Line 3-5 - Series C
- 7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	30	36	1 1/2	1/2	5/8	3	2	3 1/2	2 7/8	1	8	2 1/8	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2							7.5
3																											
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

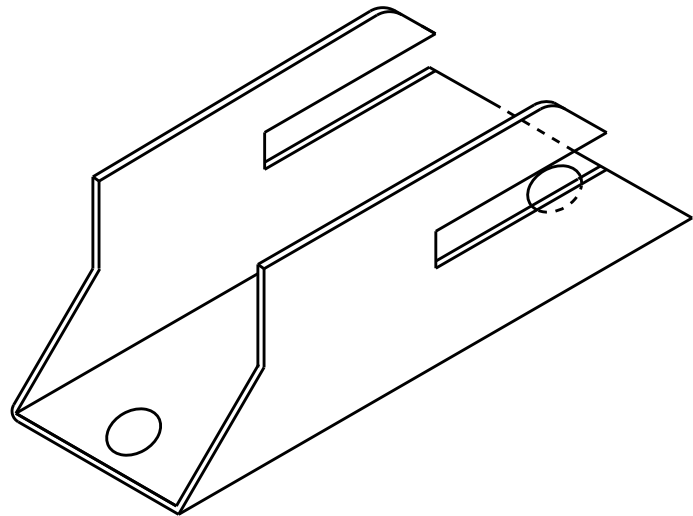
STANDARD SIGN
I55-56

WISCONSIN DEPT OF TRANSPORTATION

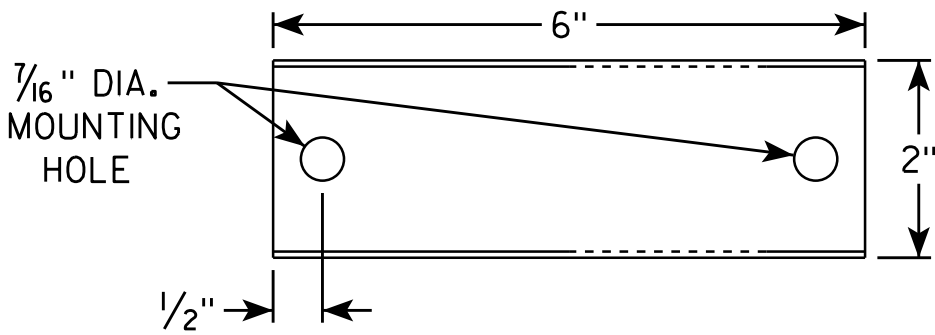
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

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

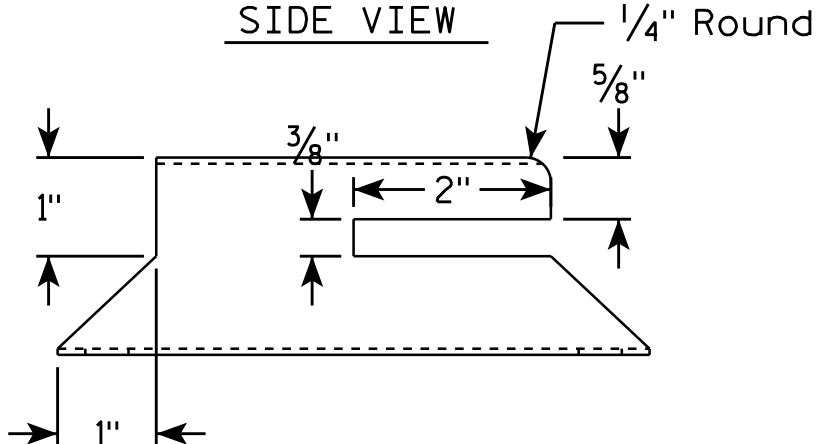
ISOMETRIC VIEW



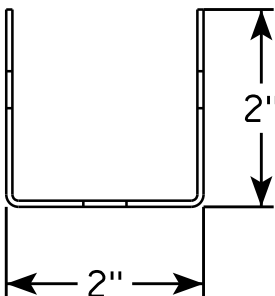
TOP VIEW



SIDE VIEW



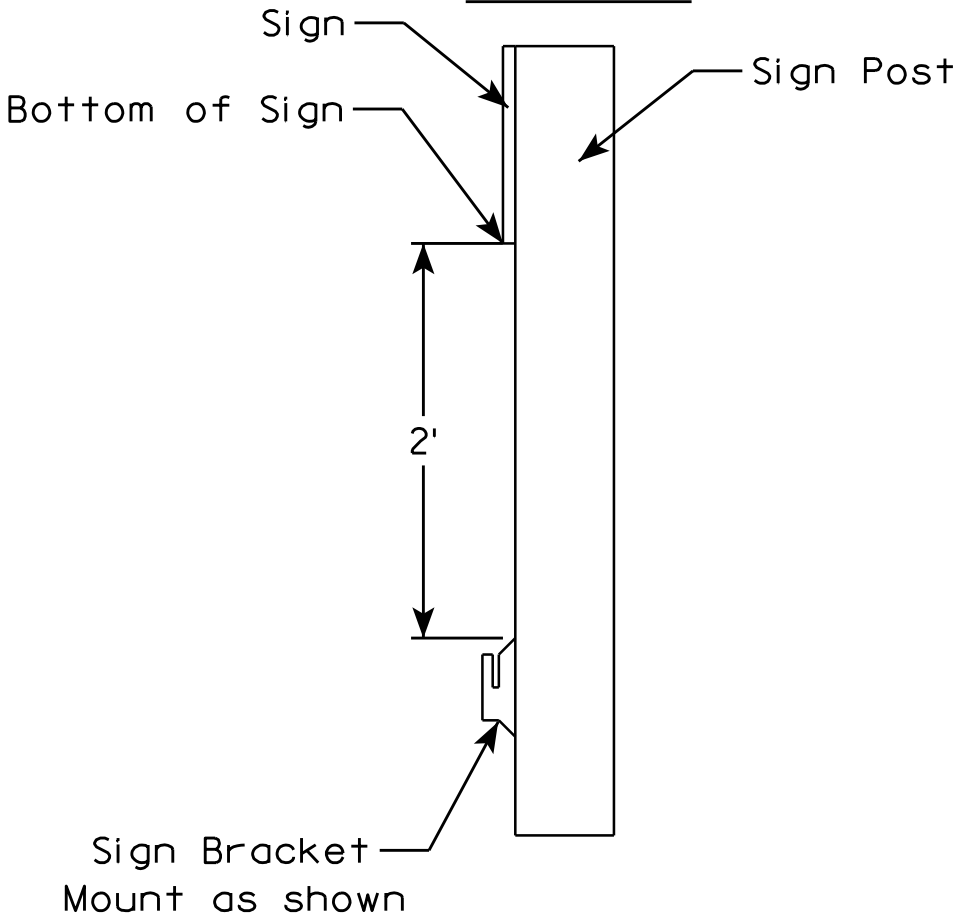
END VIEW



NOTES

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

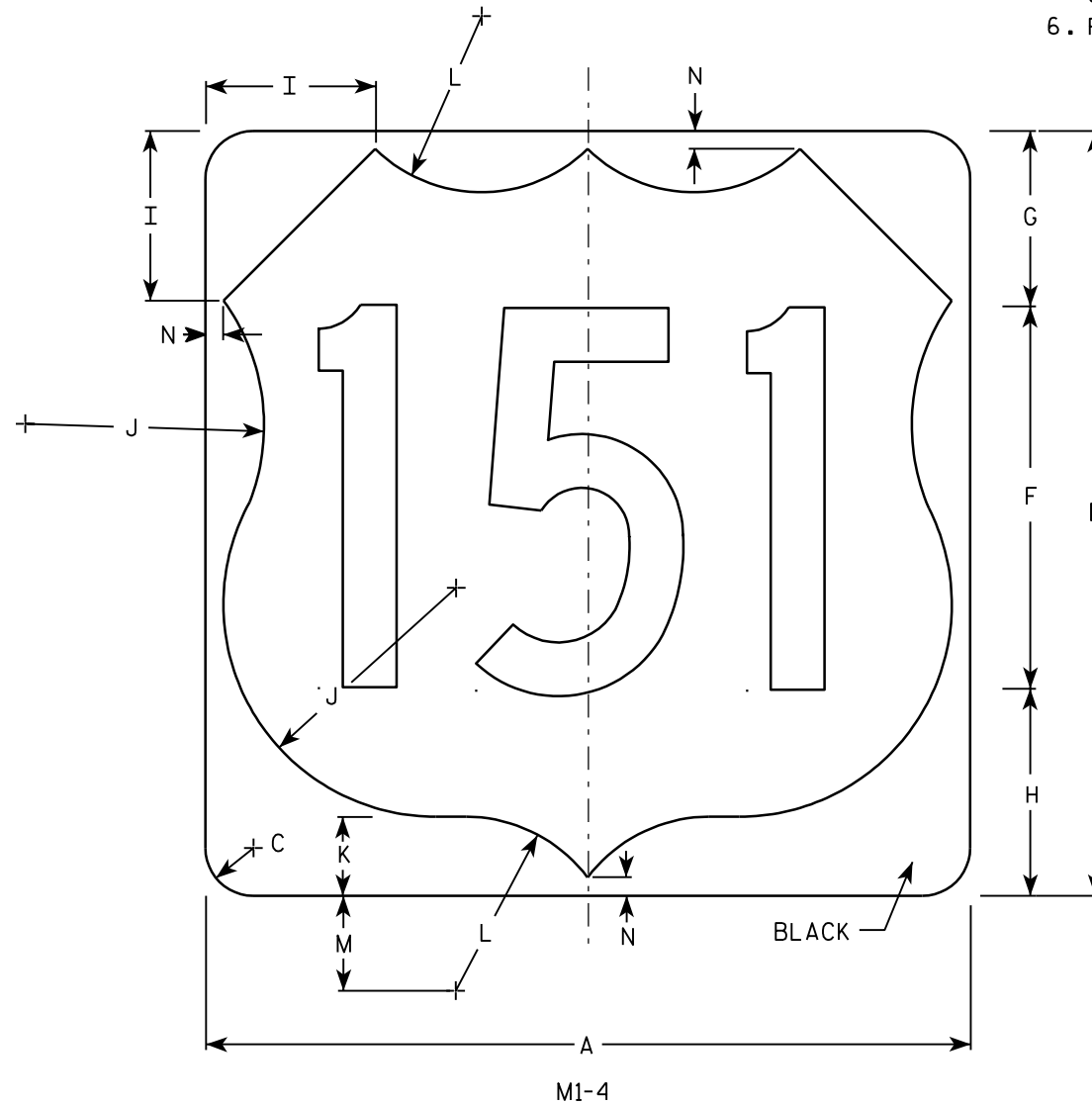
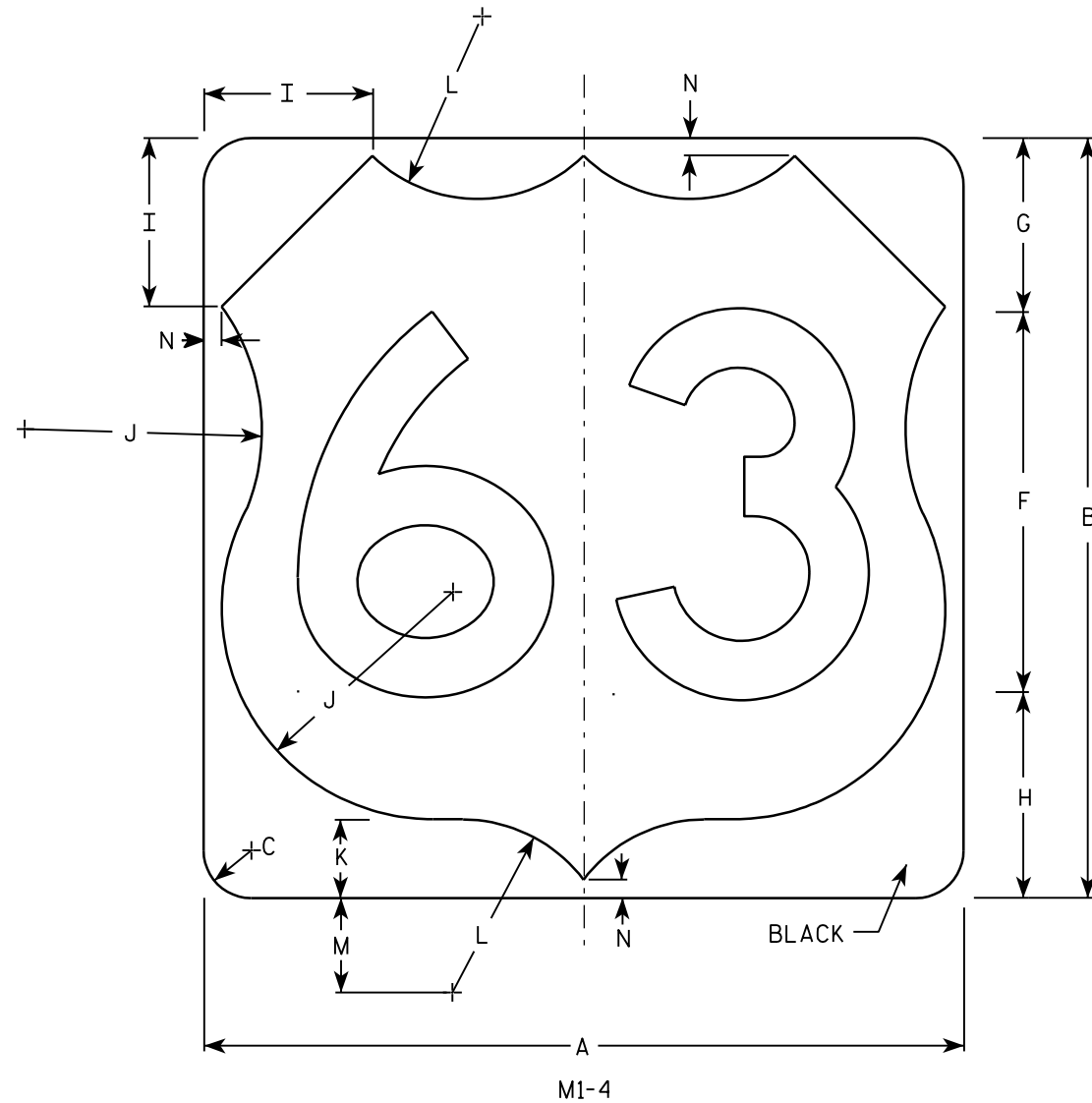
SIDE VIEW



ROLLUP SIGN BRACKET I55-56B	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 4/26/16	PLATE NO. I55-56B.2

NOTES

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



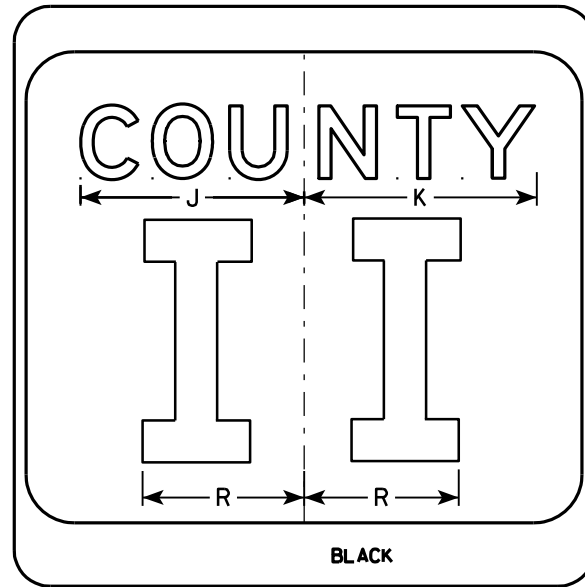
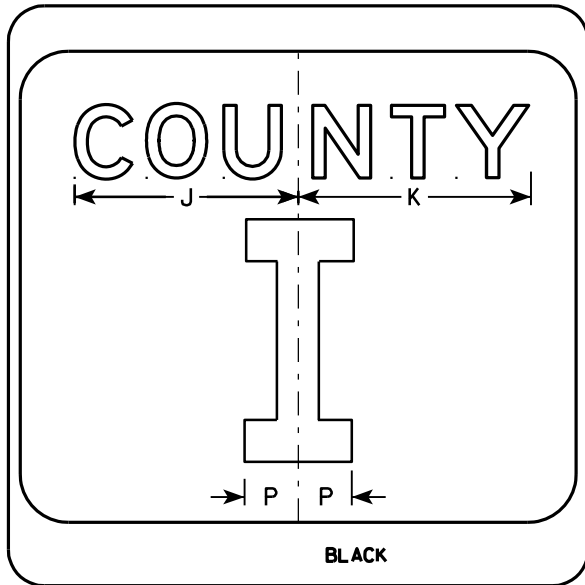
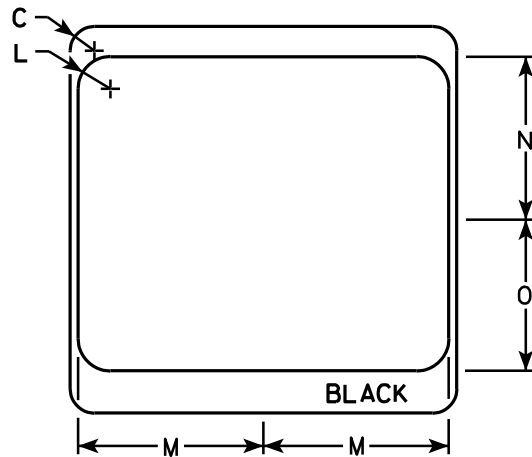
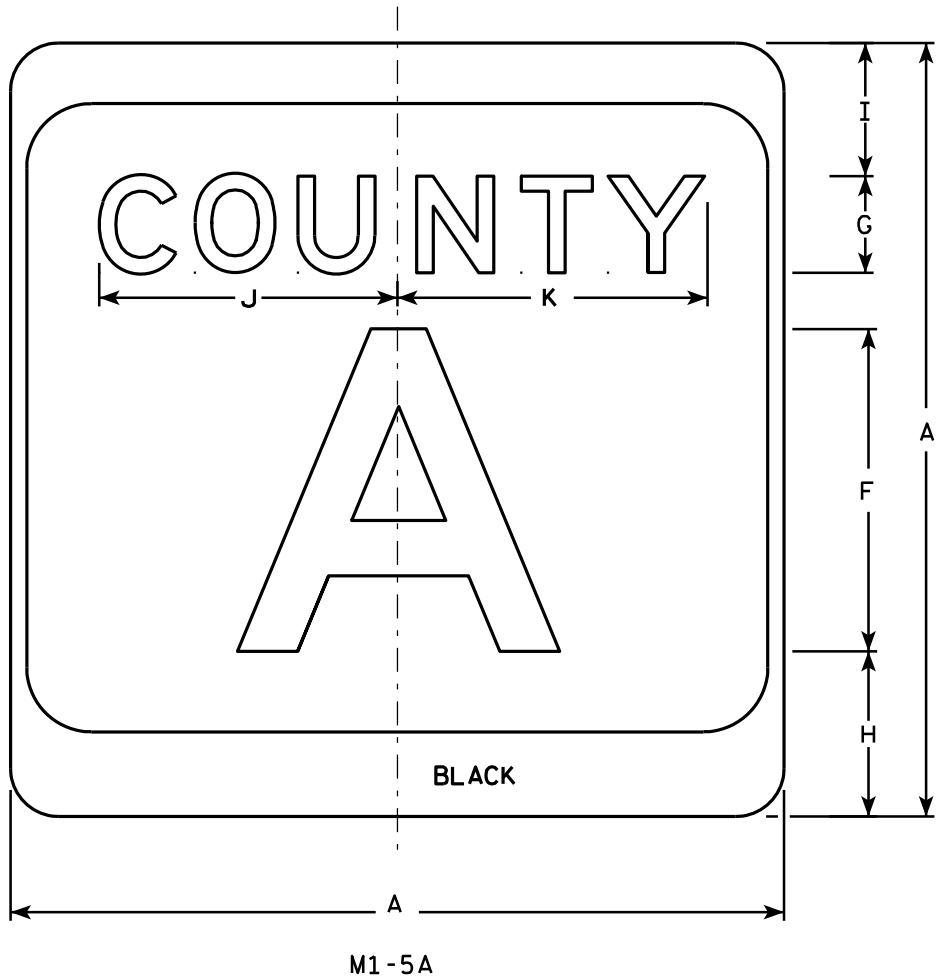
Metric equivalent
for this sign is:

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

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

PROJECT NO: HWY: COUNTY: SHEET NO: E

7



NOTES

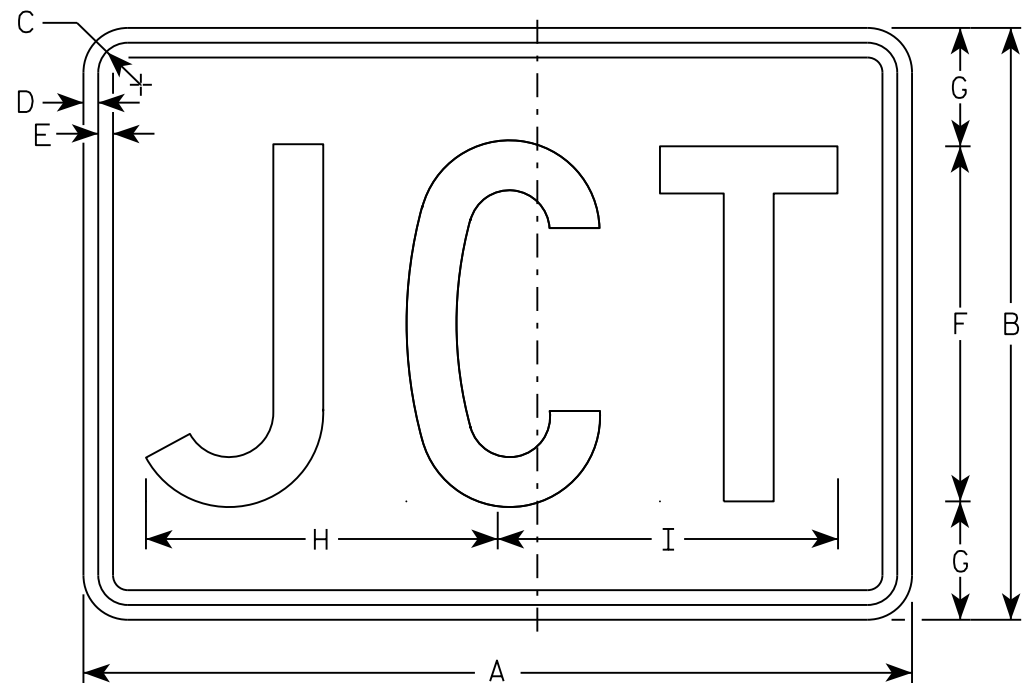
1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White & Black - See Note 7
Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders 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

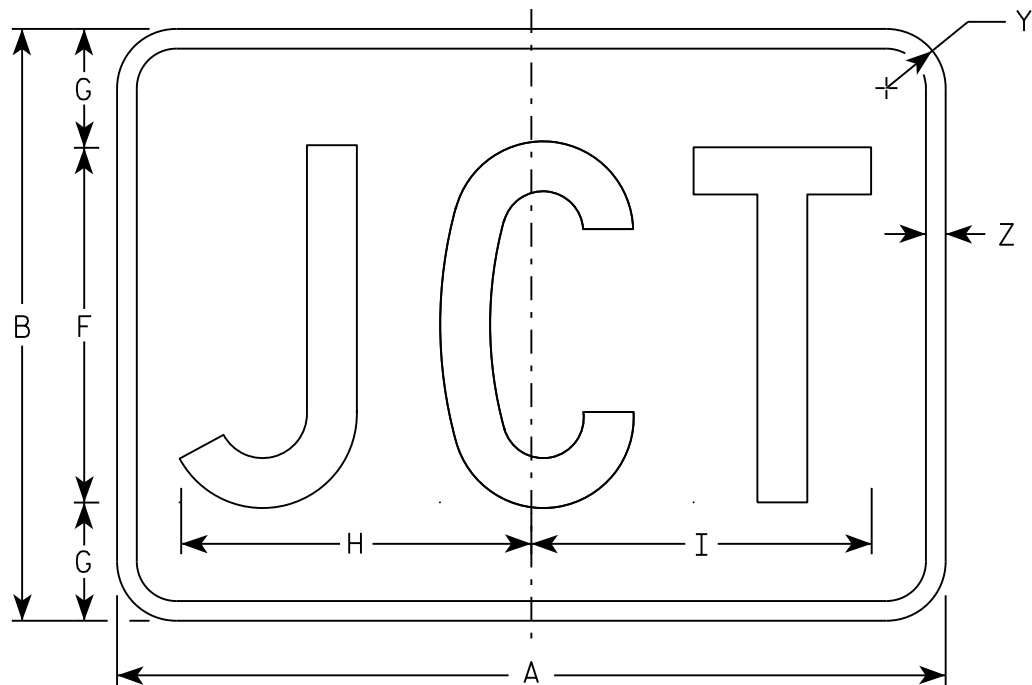
CTH MARKER	
M1-5A FOR ASSEMBLIES	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 9/27/11	PLATE NO. M1-5A.8

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

7



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

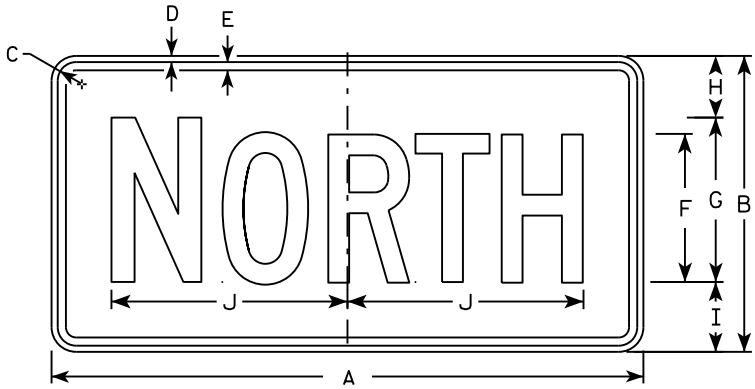
APPROVED

Matthew R. Rauch

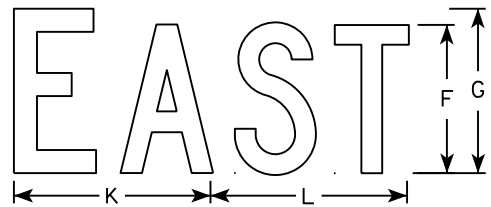
For State Traffic Engineer

DATE 10/15/15

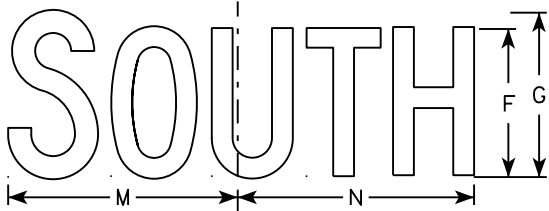
PLATE NO. M2-1.12



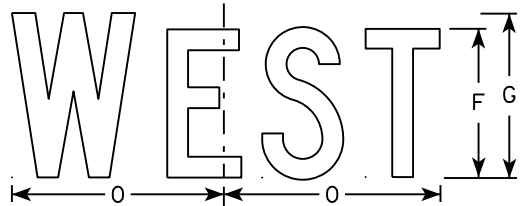
M3-1
MM3-1
MP3-1



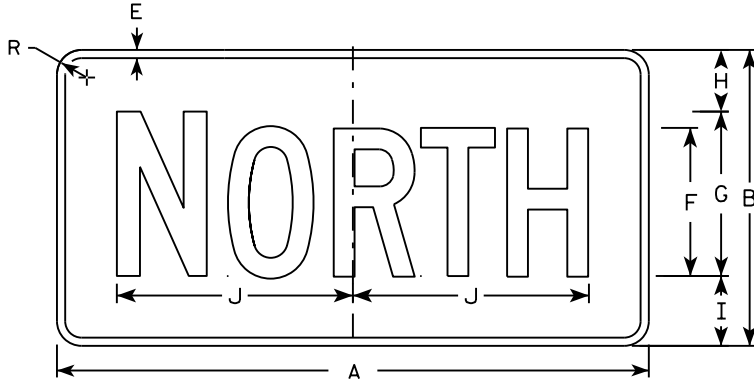
M3-2
MM3-2
MP3-2



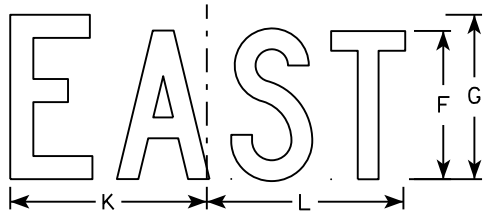
M3-3
MM3-3
MP3-3



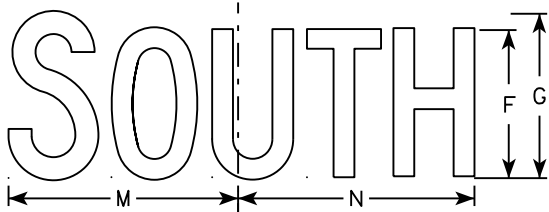
M3-4
MM3-4
MP3-4



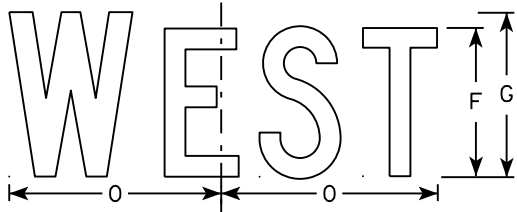
MB3-1
MK3-1
MN3-1



MB3-2
MK3-2
MN3-2



MB3-3
MK3-3
MN3-3



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.

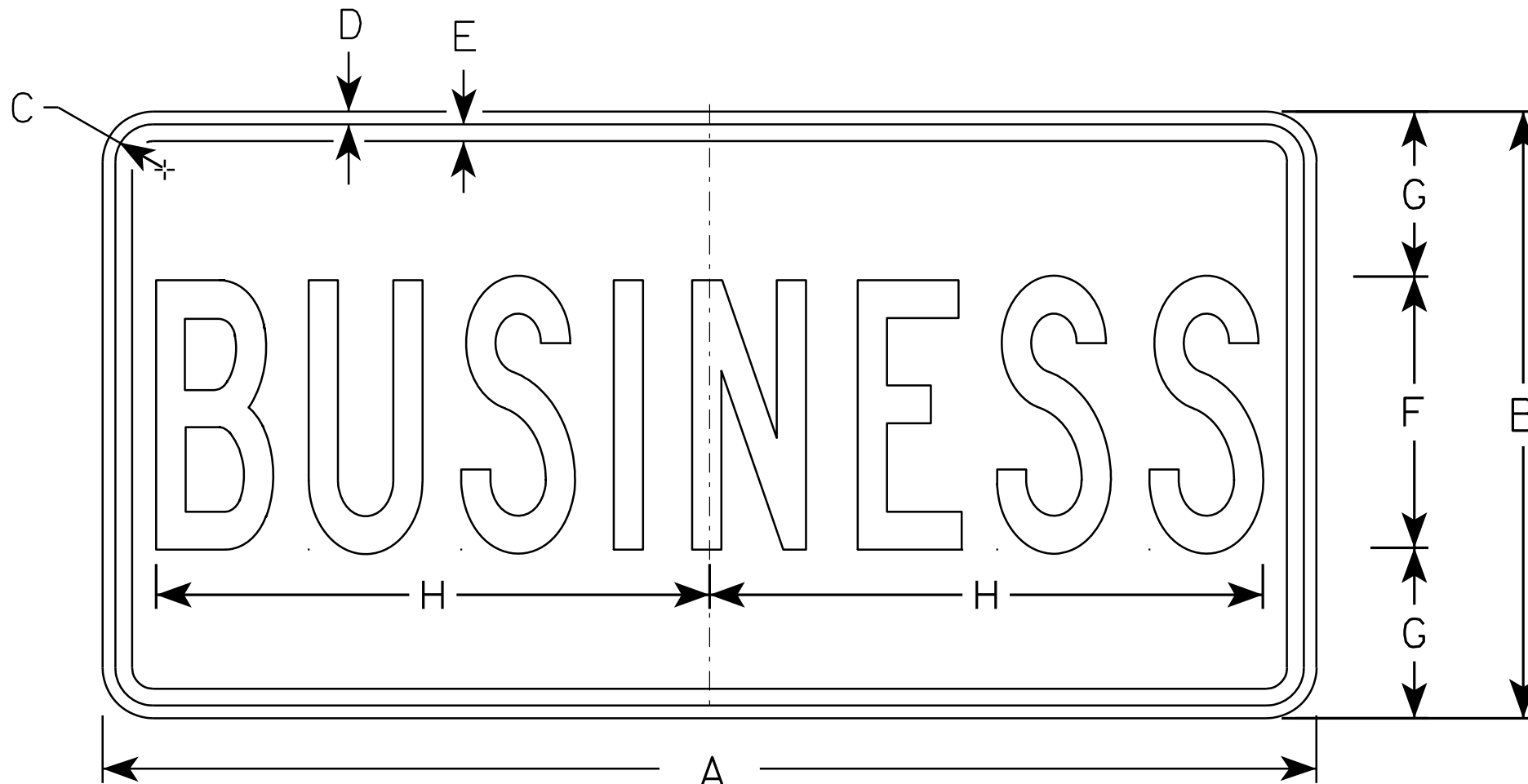
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	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 thru M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M3-1.14



M4 - 3

NOTES

1. Sign is Type II - See Note 5 - reference
WIS DOT Standard Specification for HIGHWAY
and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White - See Note 5
Message - Black
3. Message Series - B
4. Corners may be square or rounded when base
material is plywood but borders shall be rounded
as shown. When base material is metal, the
corners and borders shall be rounded.
5. Permanent Signs
Background - Type H Reflective
Detour or other 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	12	1 1/8	3/8	3/8	5	3 1/2	9 5/8																			2.0
3	36	18	1 1/8	3/8	1/2	8	5	16 3/8																			4.5
4																											
5																											

STANDARD SIGN

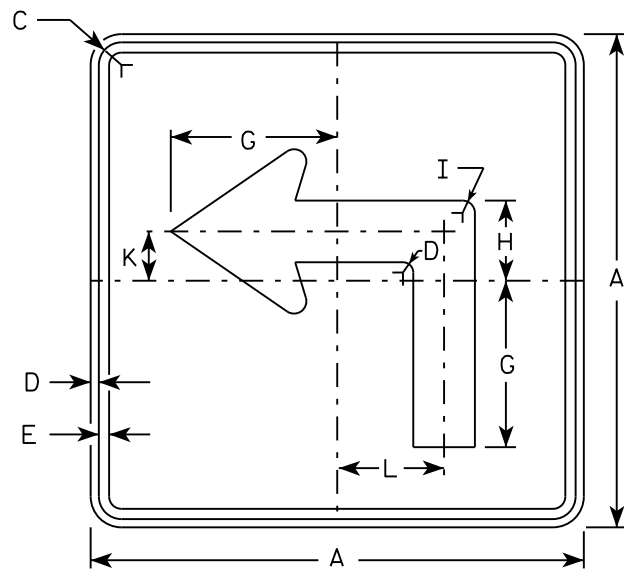
M4 - 3

WISCONSIN DEPT OF TRANSPORTATION

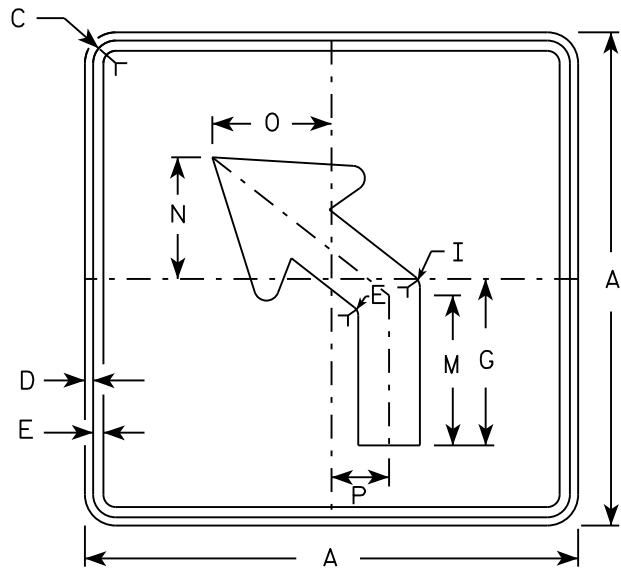
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-3.5

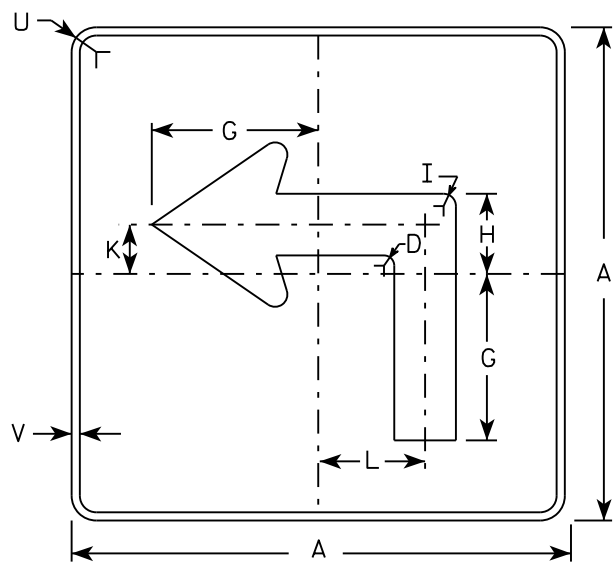
PROJECT NO: HWY: COUNTY: SHEET NO: E



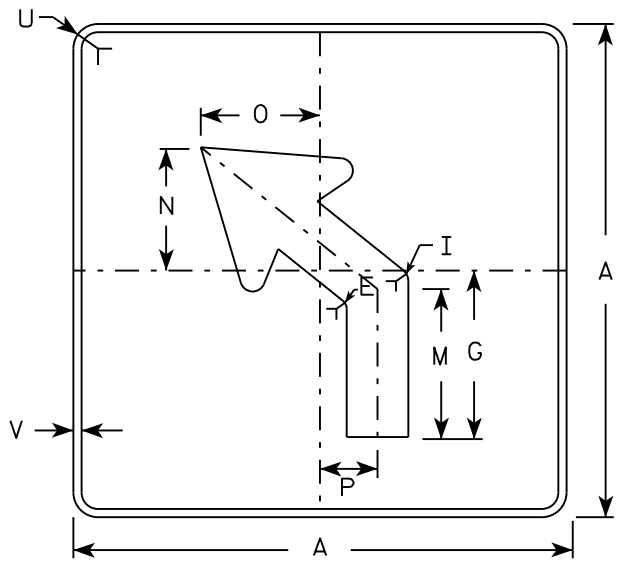
M5-1L
MM5-1L
M05-1L
MP5-1L



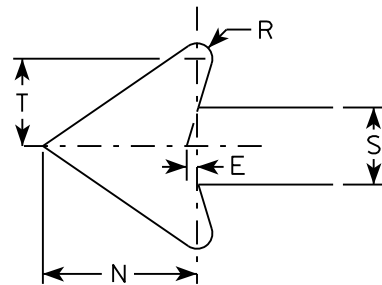
M5-2L
MM5-2L
M05-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

- Signs are Type II - Type H reflective except as shown
- Color:
Background - See note 4
Message - See note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- | | |
|-----------------|---|
| M5-1 and M5-2 | Background - White |
| | 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 |
| M05-1 and M05-2 | Background - Orange - Type F Reflective |
| | Message - Black |
| MP5-1 and MP5-2 | Background - White - Type H Reflective |
| | Message - Blue |
| MR5-1 and MR5-2 | Background - Brown |
| | Message - Yellow |
- M5-1R same as M5-1L except arrow points right.
- M5-2R same as M5-2L except arrow tilts right.

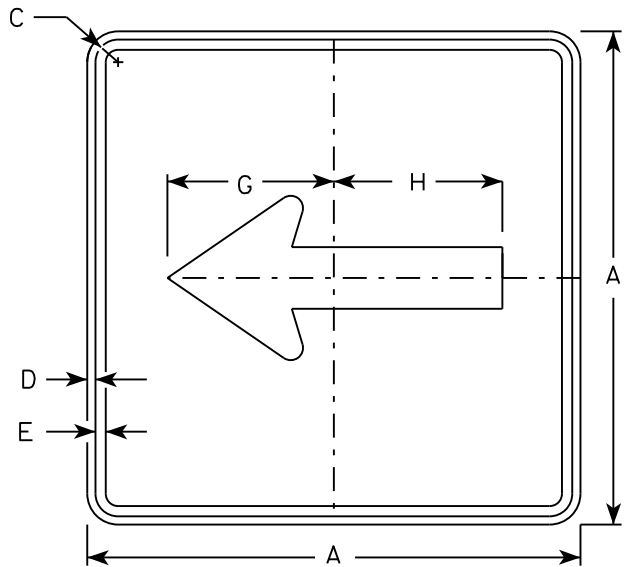
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

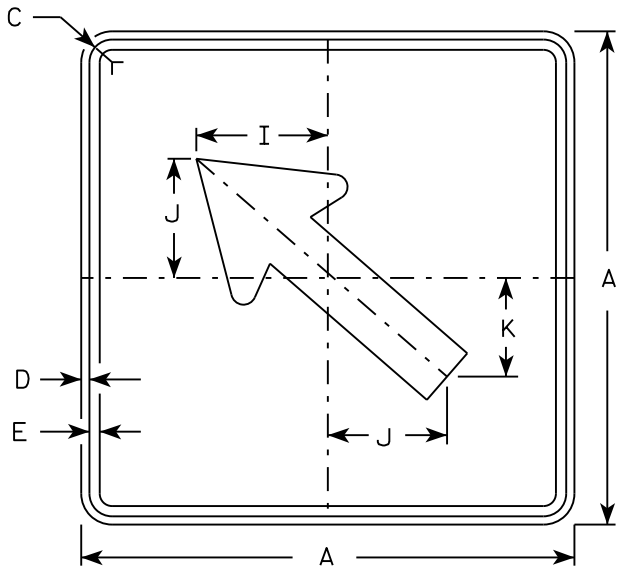
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

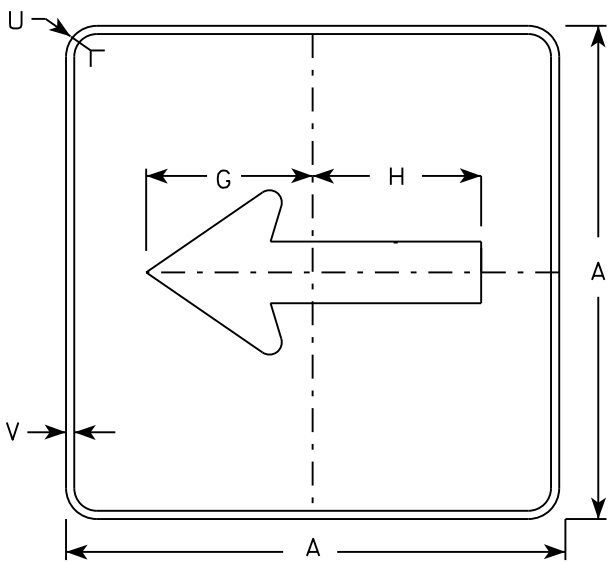
DATE 10/15/15 PLATE NO. M5-1.13



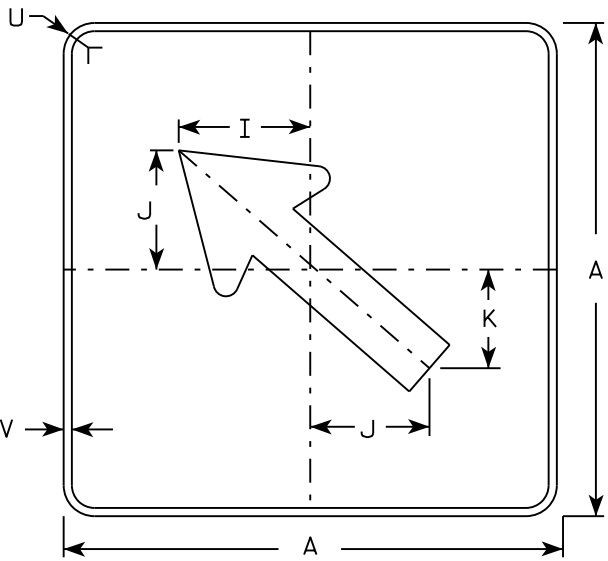
M6 - 1
MM6 - 1
M06 - 1
MP6 - 1



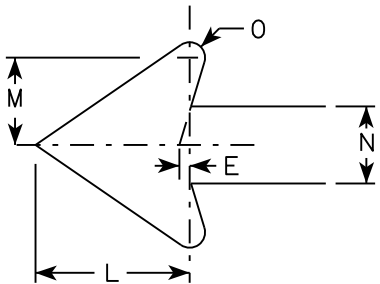
M6 - 2
MM6 - 2
M06 - 2
MP6 - 2



MB6 - 1
MK6 - 1
MN6 - 1
MR6 - 1



MB6 - 2
MK6 - 2
MN6 - 2
MR6 - 2



NOTES

- Signs are Type II - Type H except as Shown
- Color:
Background - See note 4
Message - See note 4
- Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- M6-1 and M6-2 Background - White
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
M06-1 and M06-2 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

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

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

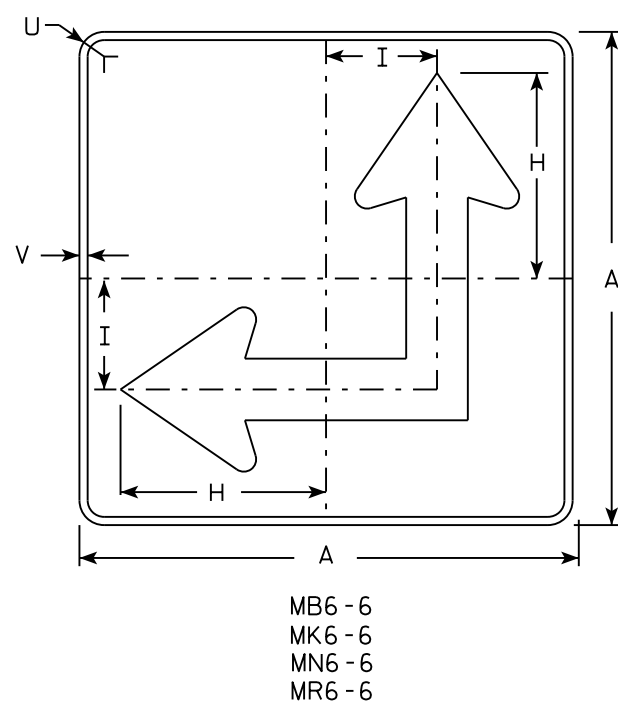
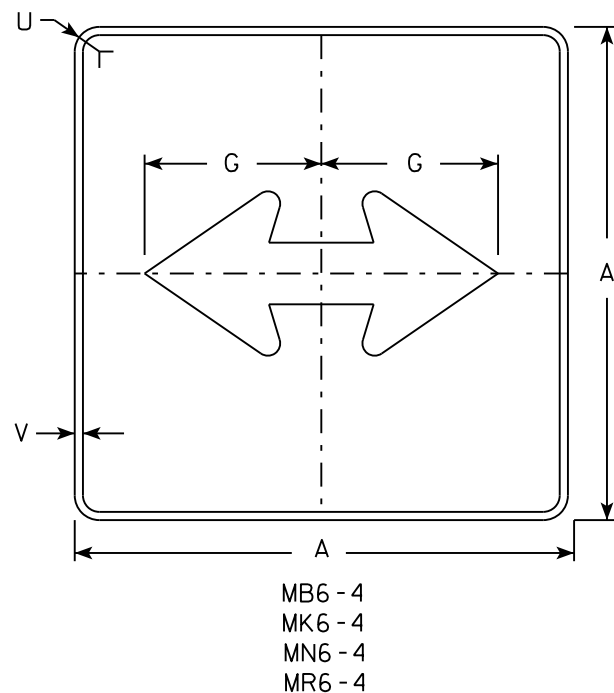
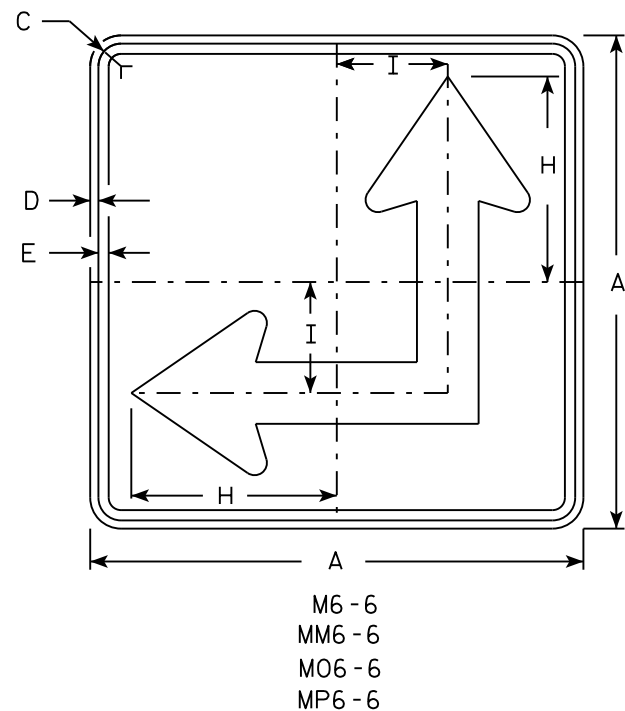
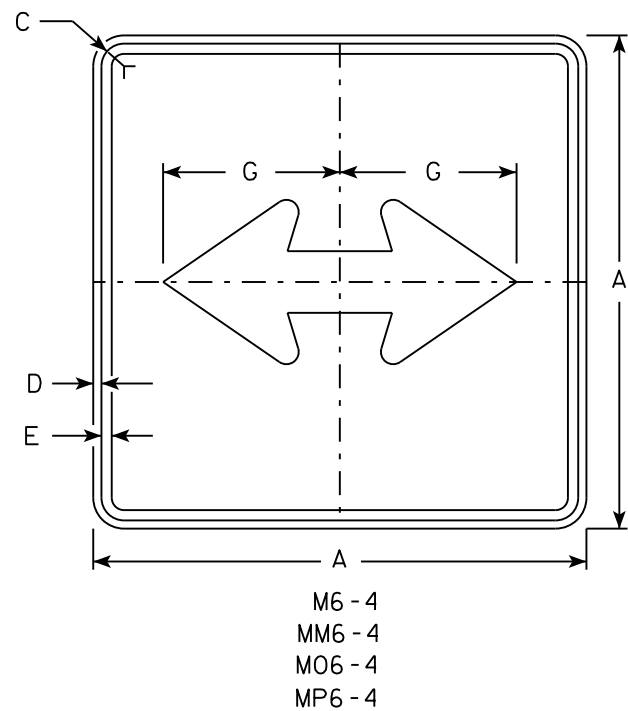
E

STANDARD SIGN
M6 - 1 & M6 - 2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

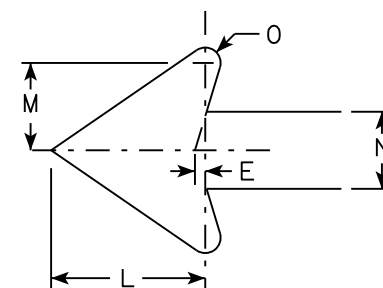
APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-1.15



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
M06-4 and M06-6 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.



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

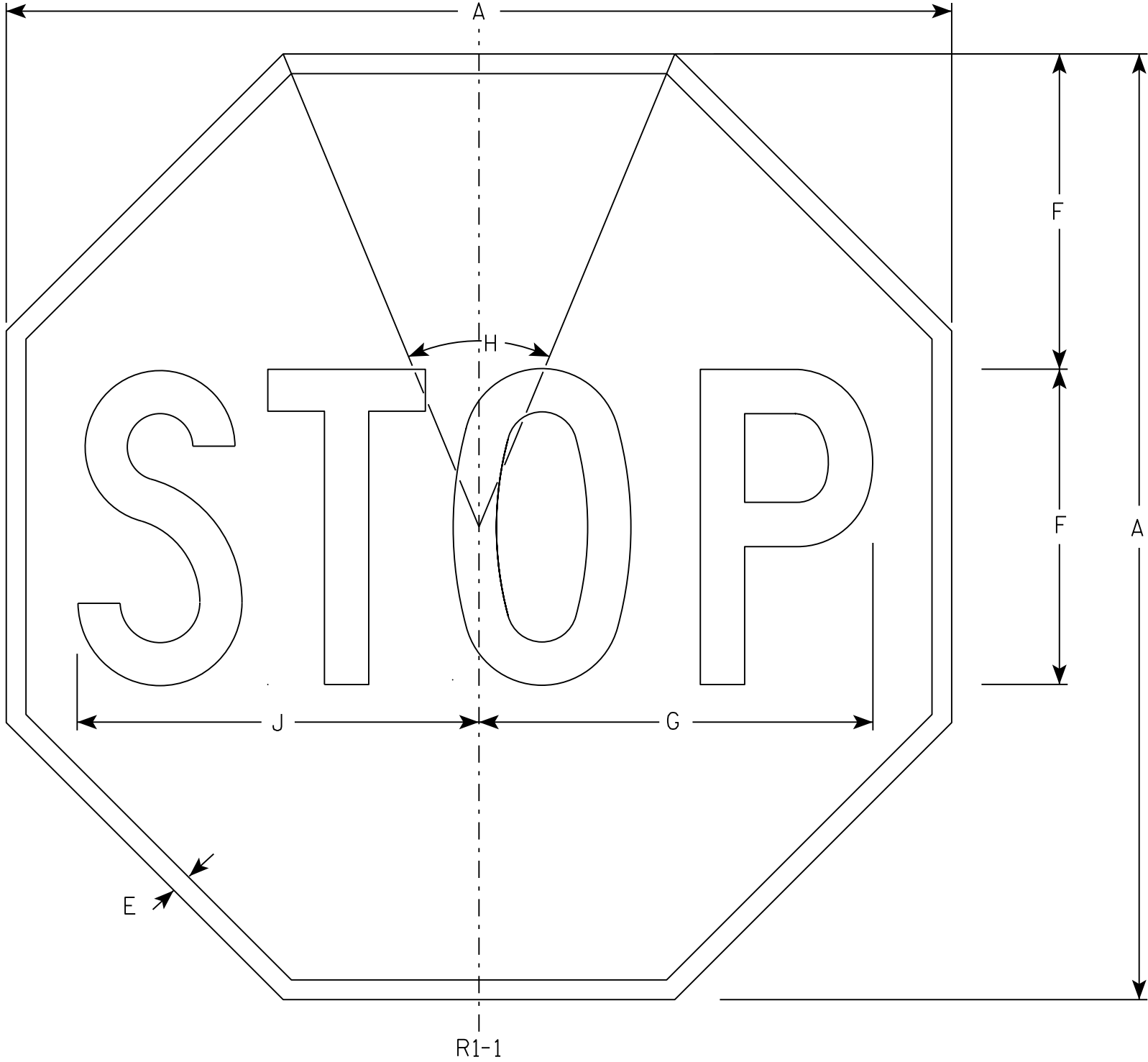
STANDARD SIGN
M6 - 4 & M6 - 6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 10/15/15

PLATE NO. M6-4.10



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

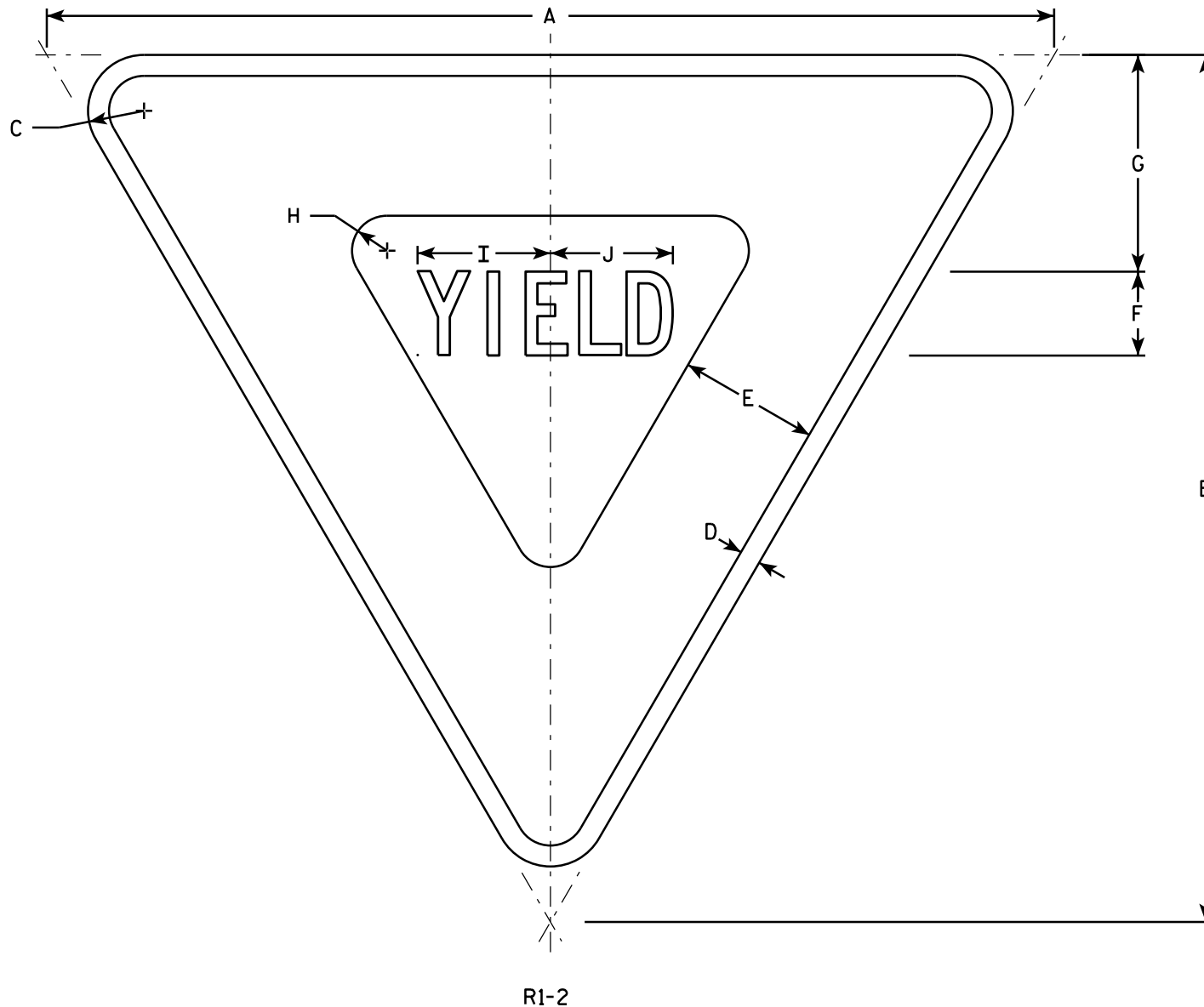
STANDARD SIGN

R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

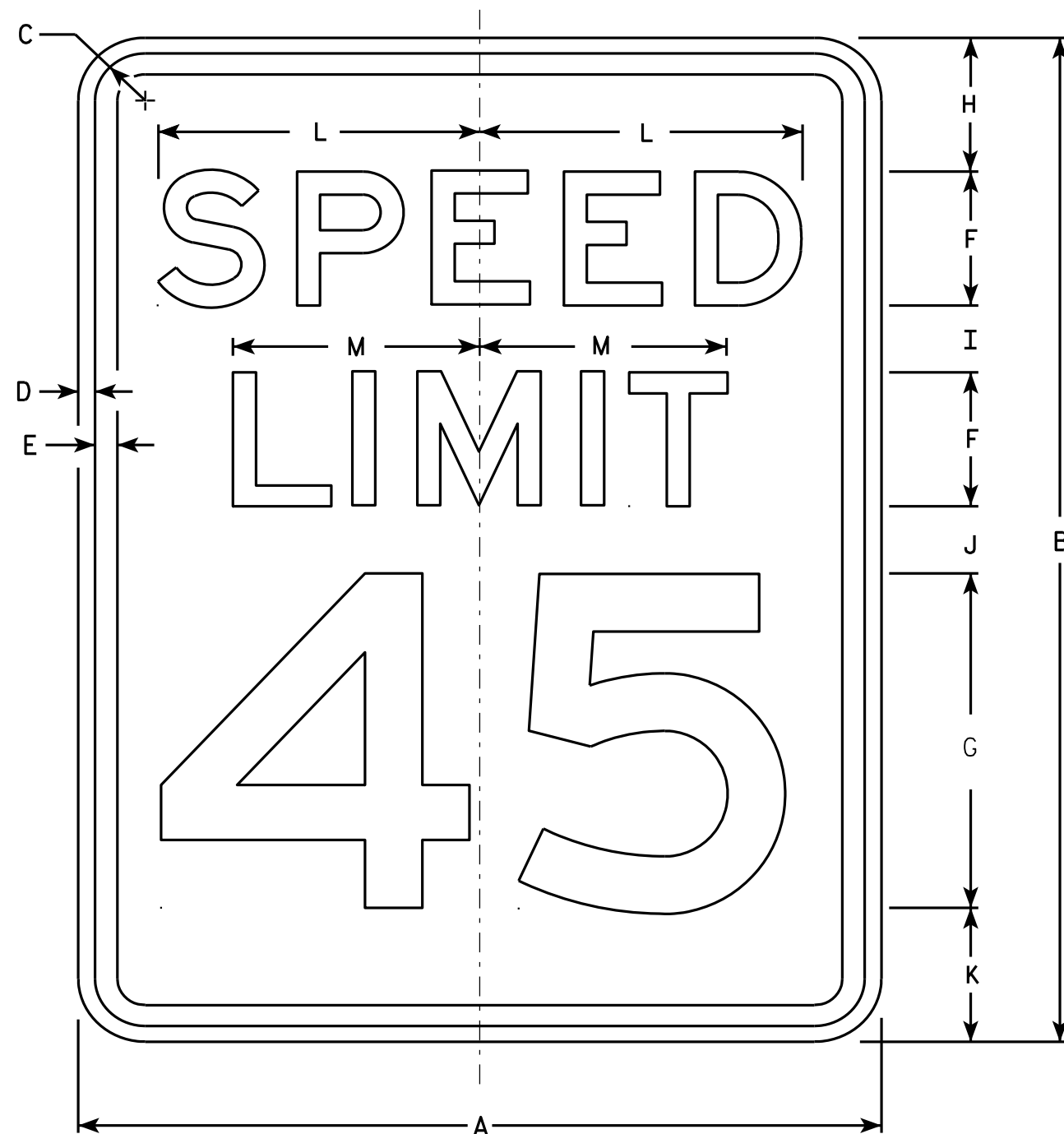
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 10/13/14 PLATE NO. R1-2.12



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.

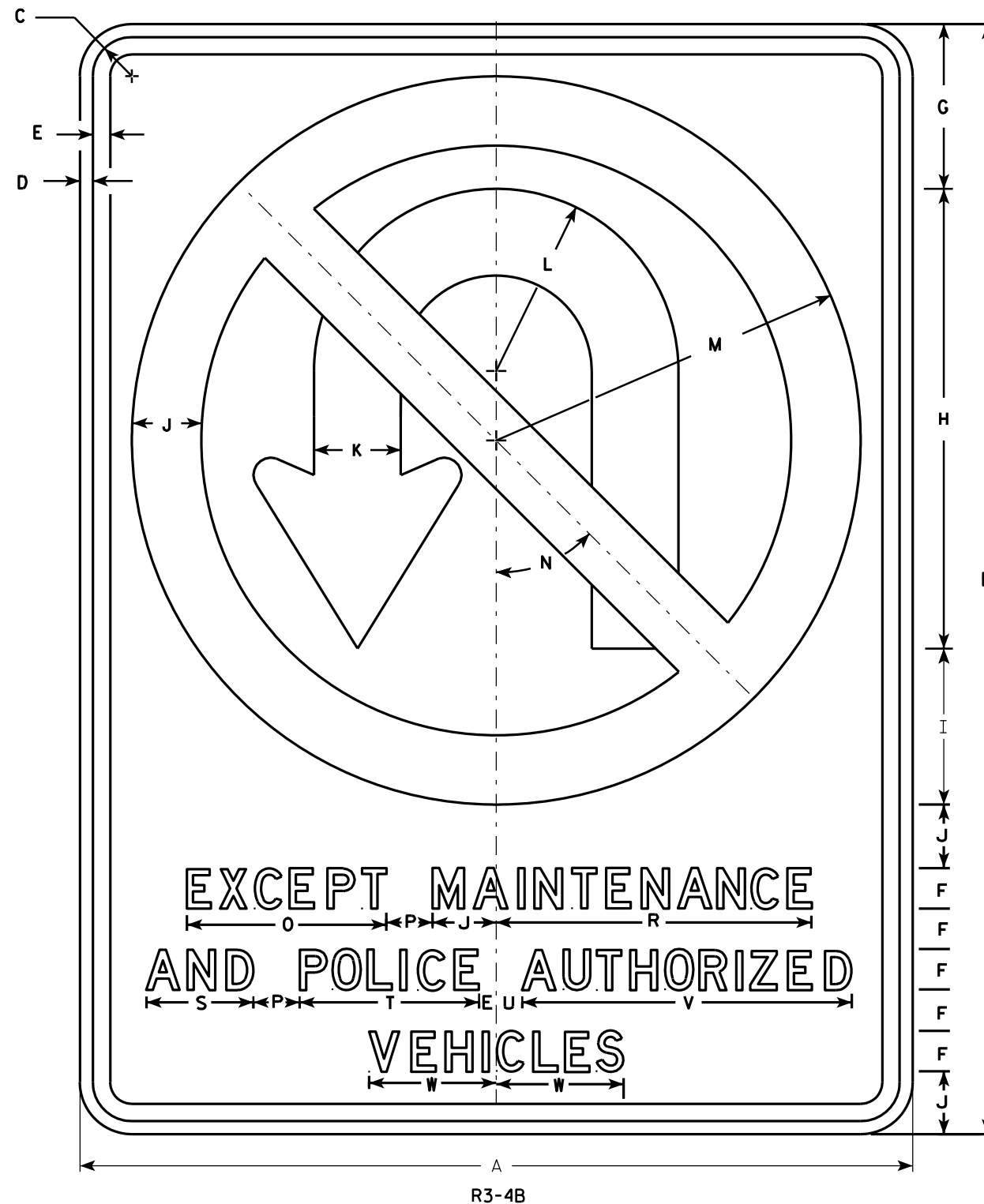
R2-1

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN R2-1

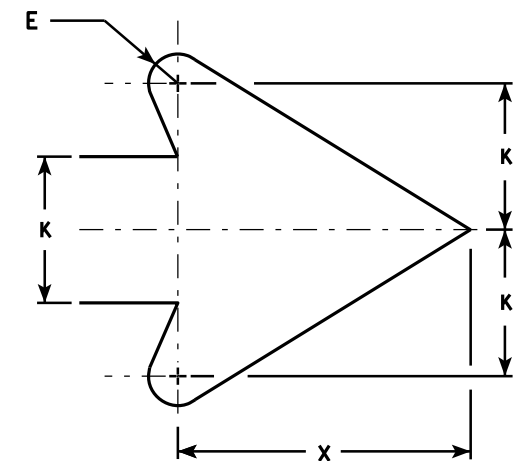
WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
For State Traffic Engineer
DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: HWY: COUNTY: SHEET NO: E



NOTES

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



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	36	48	1 5⁄8	5⁄8	3⁄4	1 3⁄4	7 1⁄8	19 7⁄8	6 3⁄4	2 3⁄4	3 3⁄4	7 7⁄8	15 3⁄4	45°	8 5⁄8	2		13 5⁄8	4 5⁄8	7 3⁄4	1 1⁄8	14 1⁄4	5 1⁄2	7 5⁄8			12.0
5	36	48	1 5⁄8	5⁄8	3⁄4	1 3⁄4	7 1⁄8	19 7⁄8	6 3⁄4	2 3⁄4	3 3⁄4	7 7⁄8	15 3⁄4	45°	8 5⁄8	2		13 5⁄8	4 5⁄8	7 3⁄4	1 1⁄8	14 1⁄4	5 1⁄2	7 5⁄8			12.0

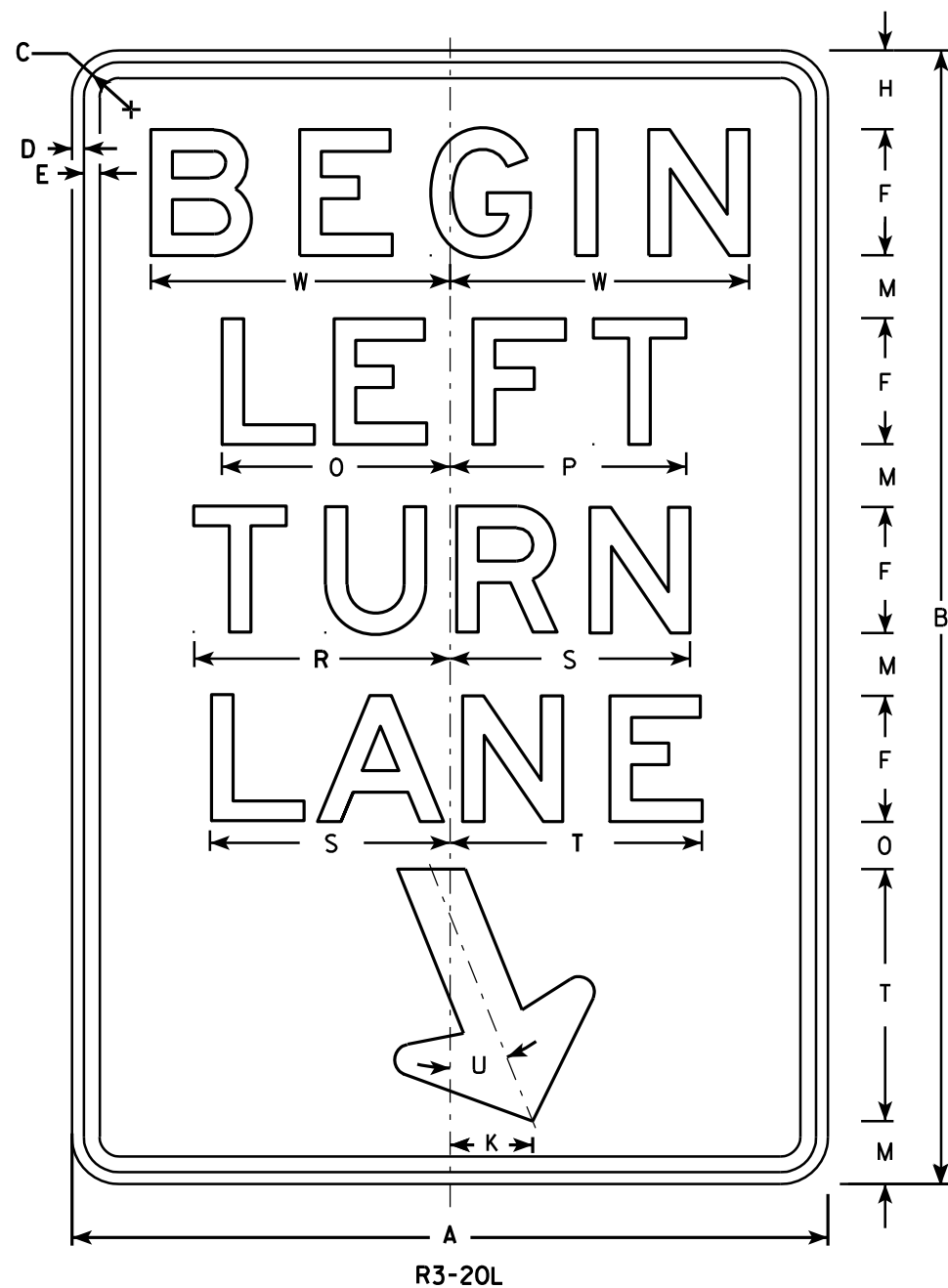
STANDARD SIGN R3-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

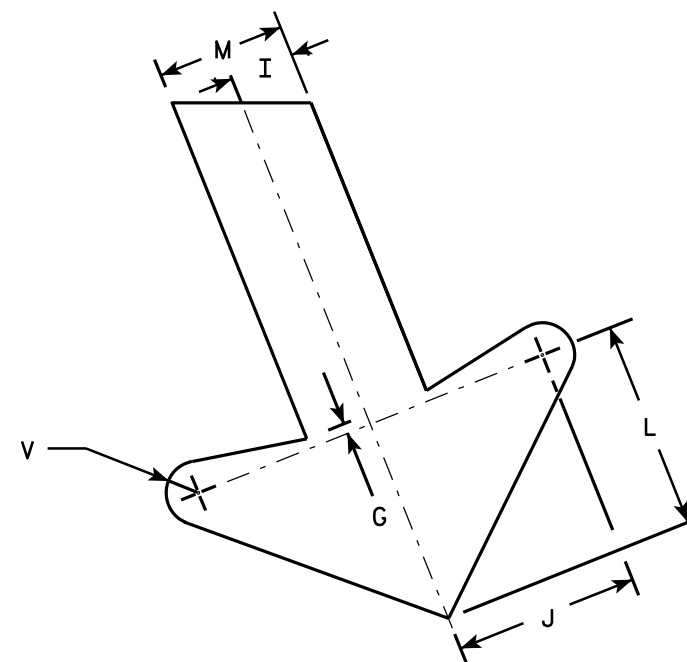
DATE 3/17/2011 PLATE NO. R3-4B.2

PROJECT NO: HWY: COUNTY: SHEET NO: E



NOTES

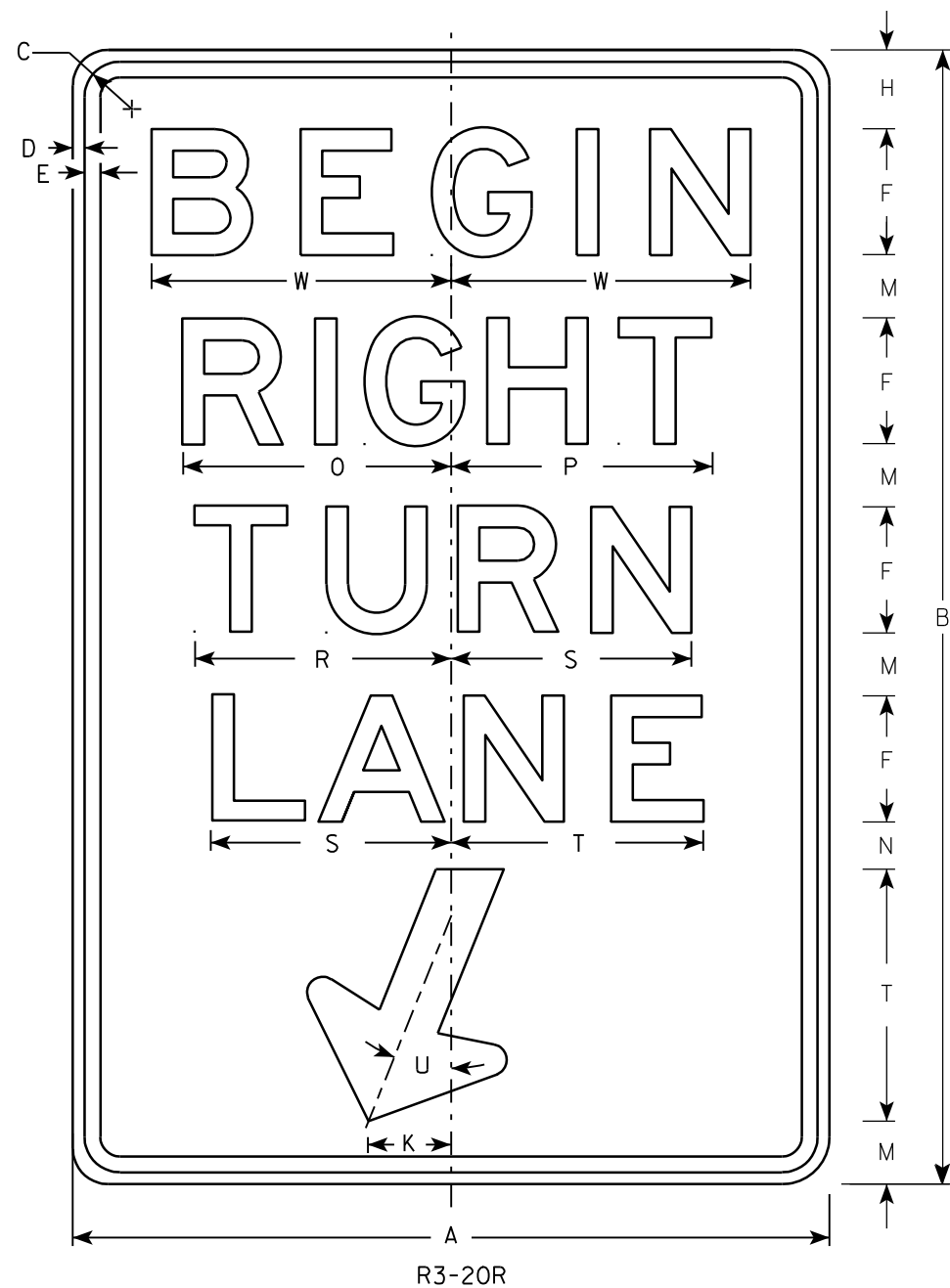
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as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



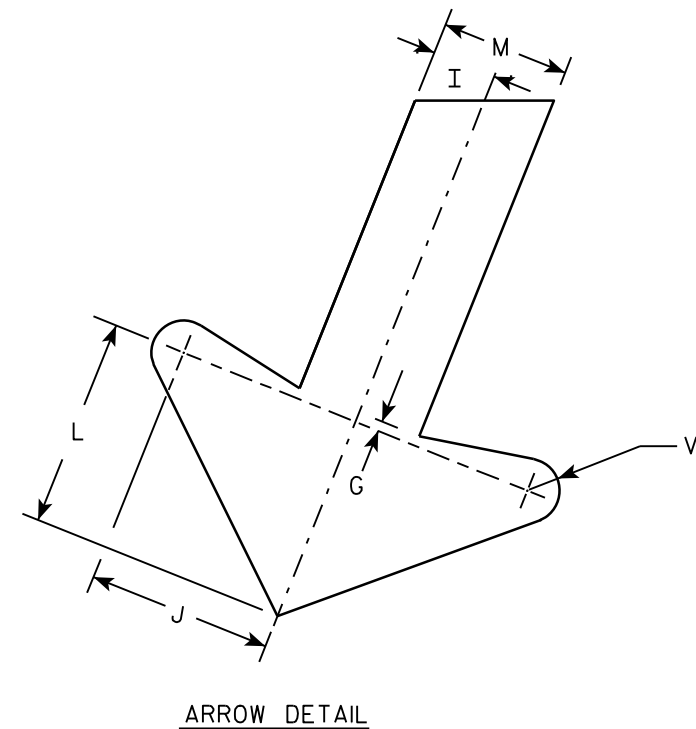
ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	10 7/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

STANDARD SIGN R3-20L	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 10/18/10	PLATE NO. R3-20L.7



- NOTES
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
 2. Color:
Background - White
Message - Black
 3. Message Series - 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																											
2S	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	1 1/2	8 1/2	8 1/4		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 7/8	3	2 1/4	12 3/4	12 1/2		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STANDARD SIGN
R3-20R

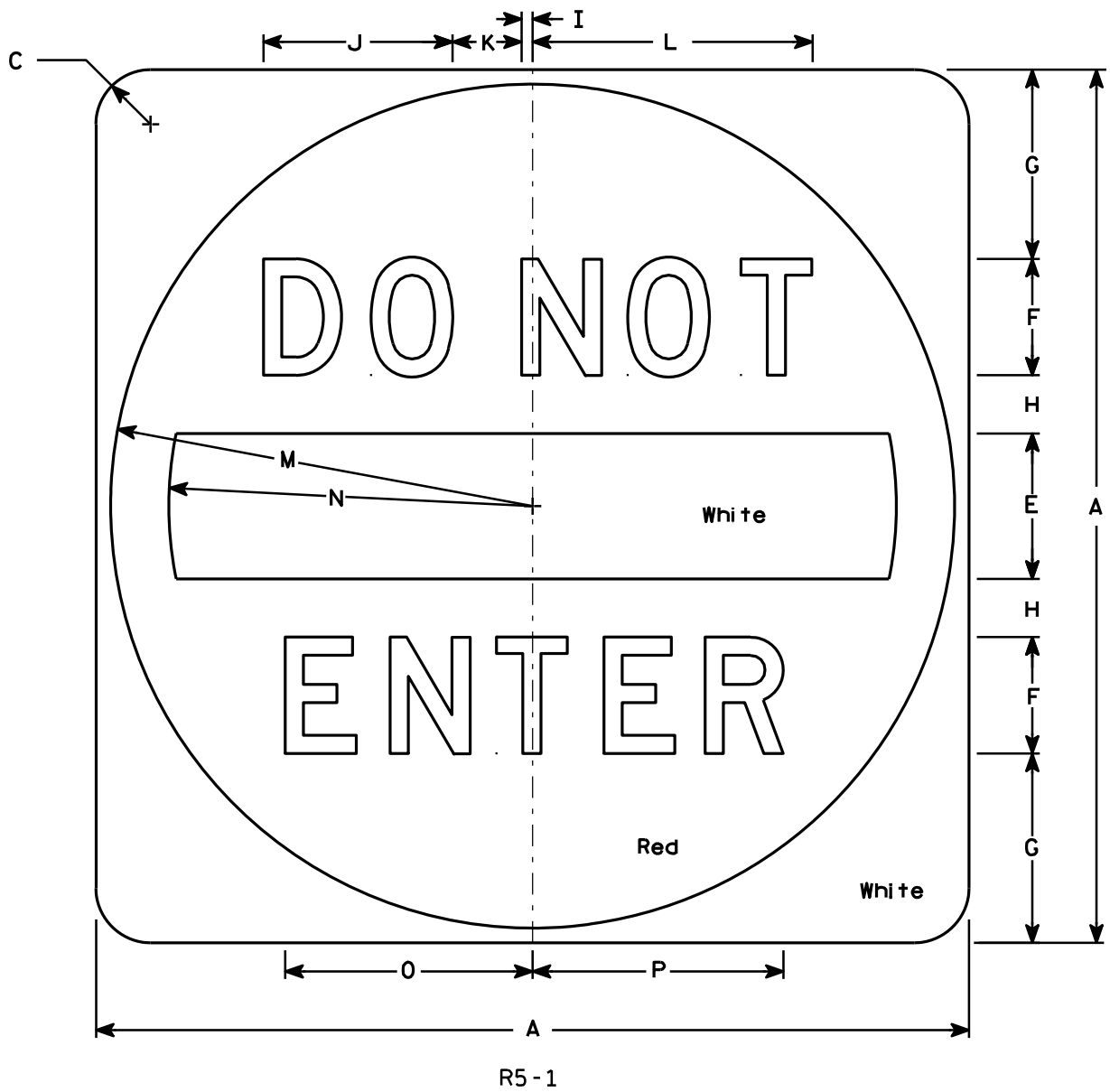
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 10/18/10 PLATE NO. R3-20R.6

NOTES

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



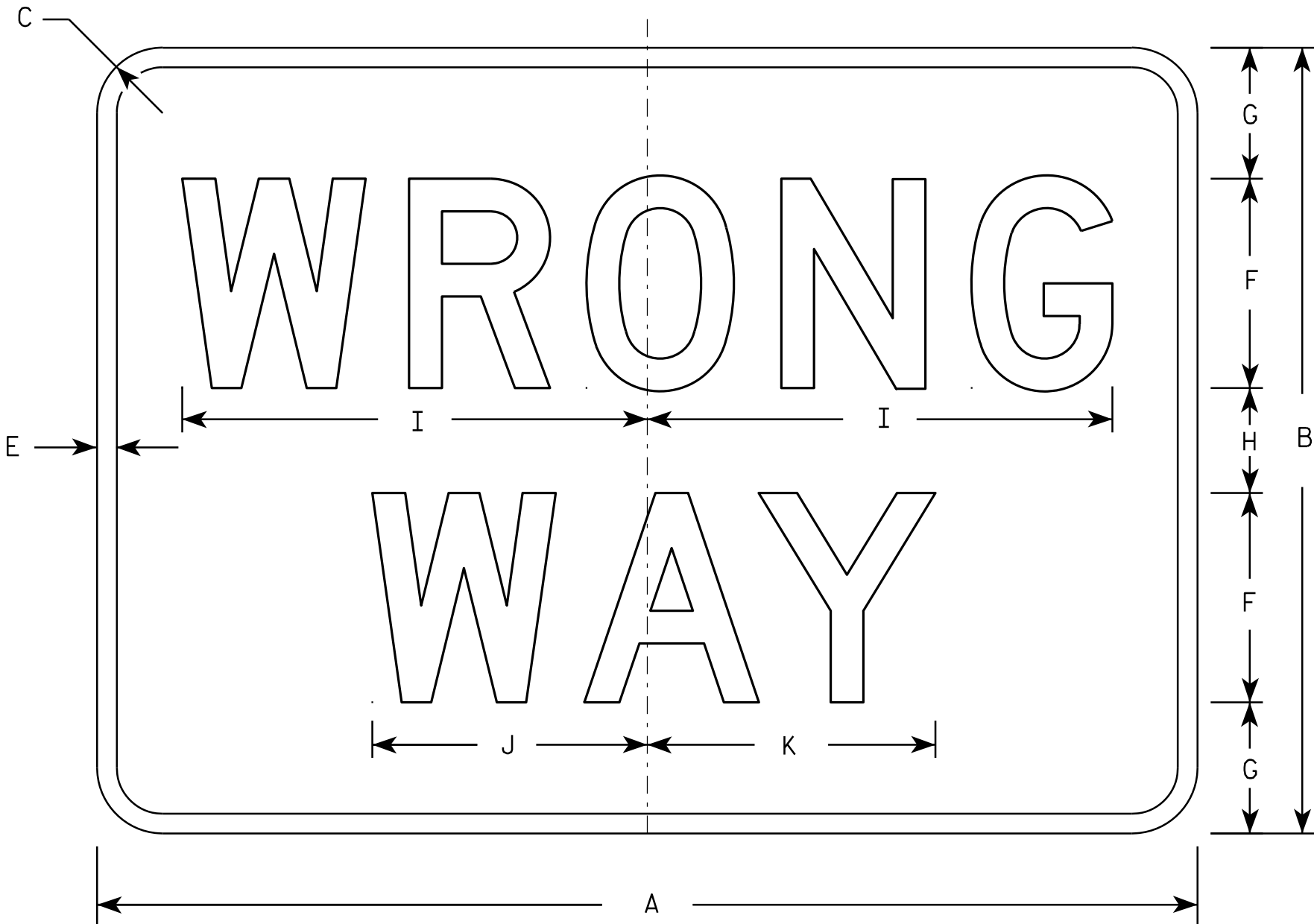
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30		1 7⁄8		5	4	6 1⁄2	2	3⁄8	6 1⁄2	2 3⁄8	9 5⁄8	14 1⁄2	12 1⁄2	8 1⁄2	8 5⁄8											6.26
2M	36		2 1⁄4		6	5	7 1⁄2	2 1⁄2	1⁄2	8 1⁄8	3	12 1⁄8	17 1⁄2	15	10 5⁄8	10 3⁄4											9.0
3	36		2 1⁄4		6	5	7 1⁄2	2 1⁄2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

STANDARD SIGN
R5 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

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



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.

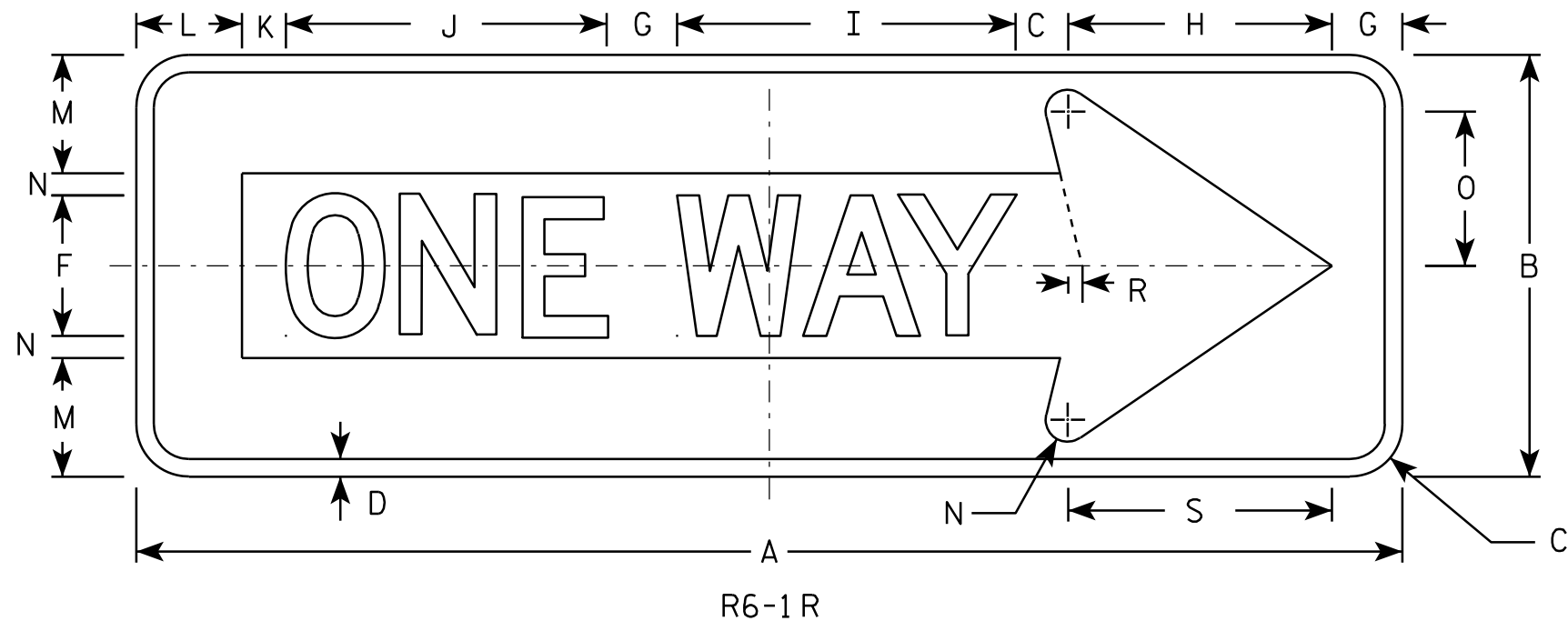
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 1/2		1/2	5	3	2	11	6 1/2	6 7/8																3.75
2S	36	24	2		5/8	6	4 1/2	3	13 1/4	7 7/8	8 1/4																6.00
2M	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																8.75
3	42	30	2 1/2		3/4	8	5	4	17 3/4	10 1/2	11																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

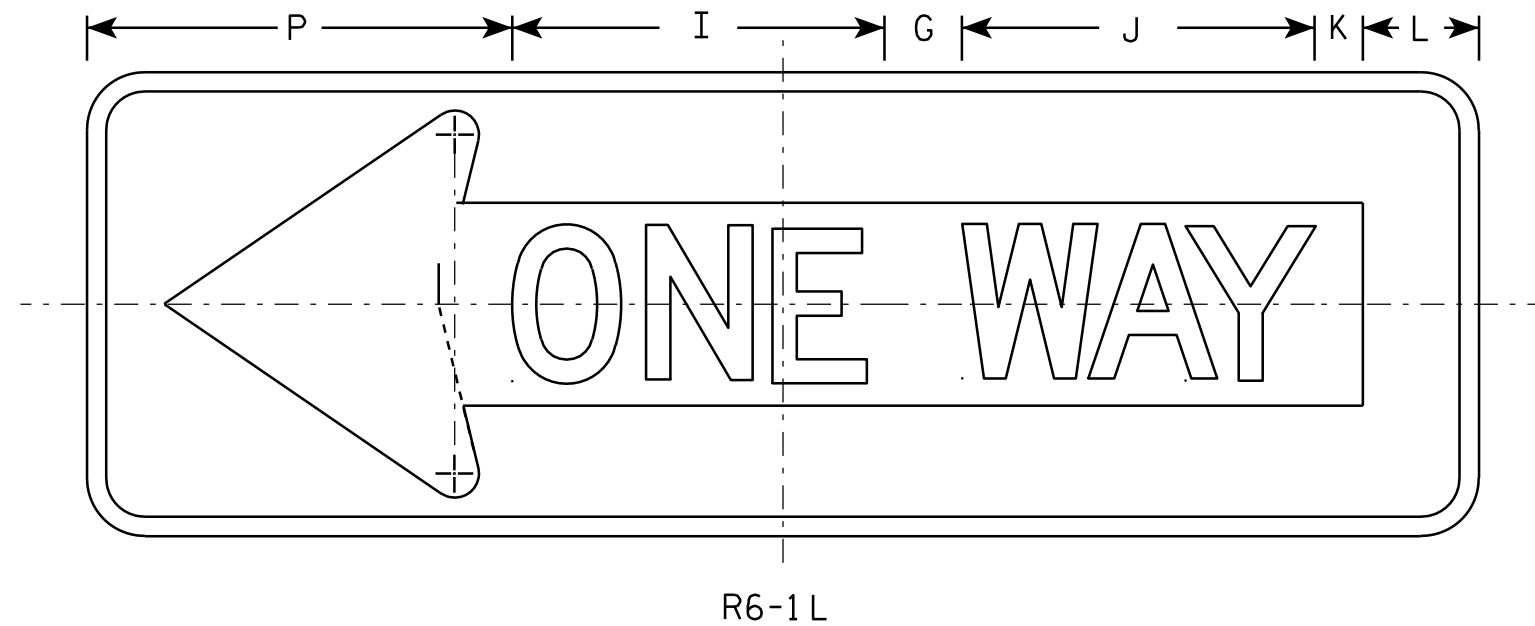
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 12/17/10 PLATE NO. R5-1A.2



NOTES

- Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - BLACK
Message - BLACK LEGEND & WHITE ARROW & BORDER
- Message Series - D
- 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	12	1 1/2	1/2		4	2	7 1/2	9 5/8	9 1/8	1 1/4	3	3 3/8	5/8	4 3/8	11		3/8	7 1/2								3.0
2M	54	18	2 1/4	3/4		6	3	11 1/4	14 1/2	13 5/8	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
3	54	18	2 1/4	3/4		6	3	11 1/4	14 1/2	13 5/8	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
4	54	18	2 1/4	3/4		6	3	11 1/4	14 1/2	13 5/8	1 7/8	4 1/2	5	1	6 1/2	16 1/2		5/8	11 1/4								6.75
5																											

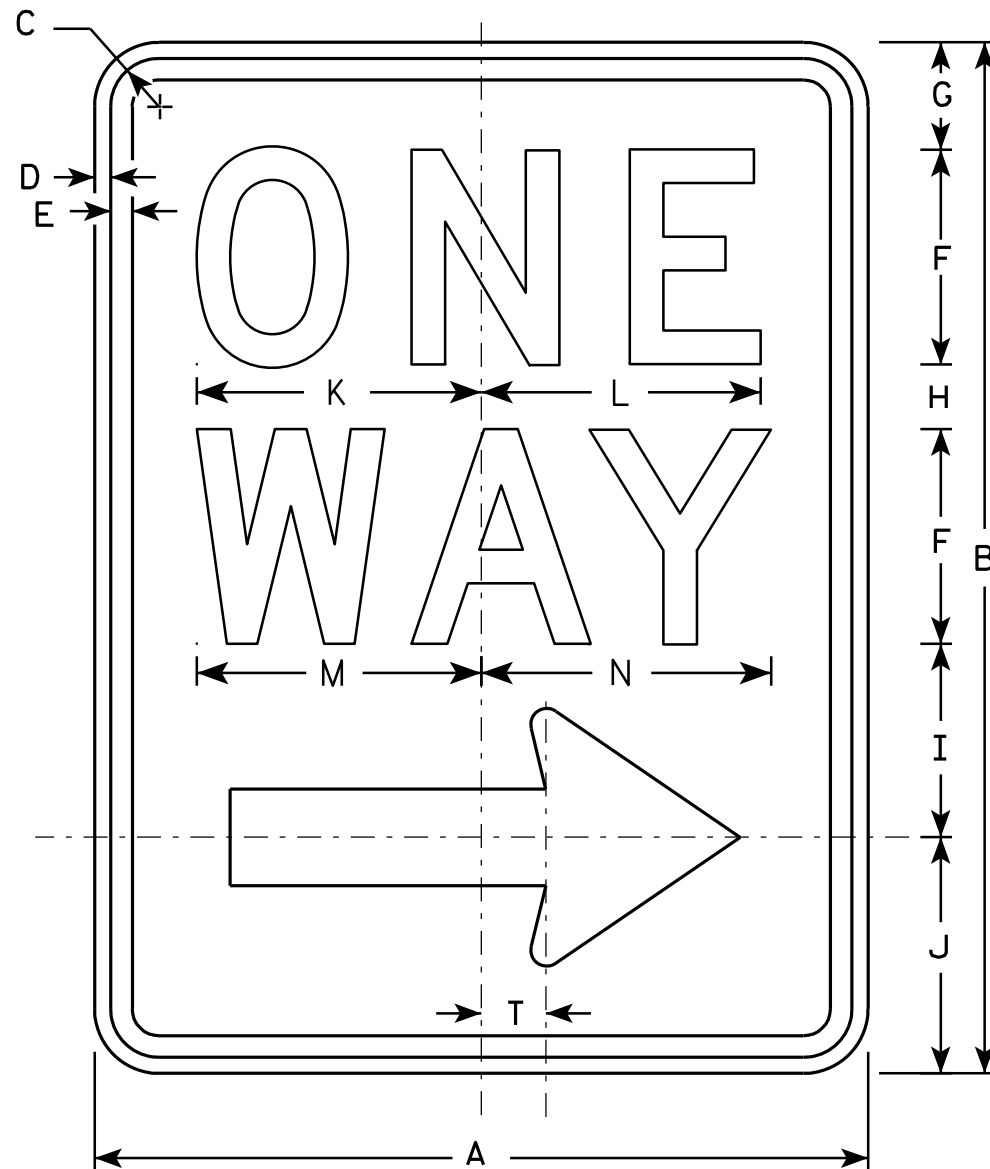
STANDARD SIGN R6-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 12/17/10 PLATE NO. R6-1.2

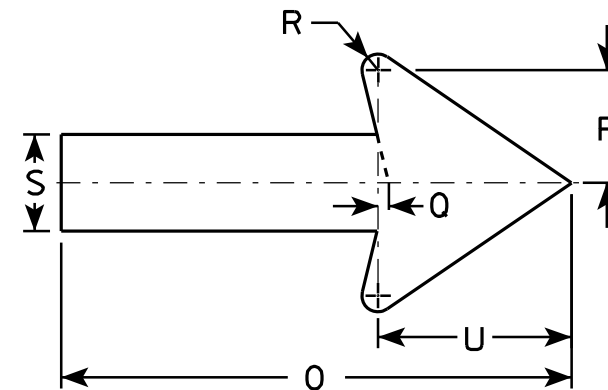
PROJECT NO: SHEET NO: E



R6-2R

NOTES

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



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

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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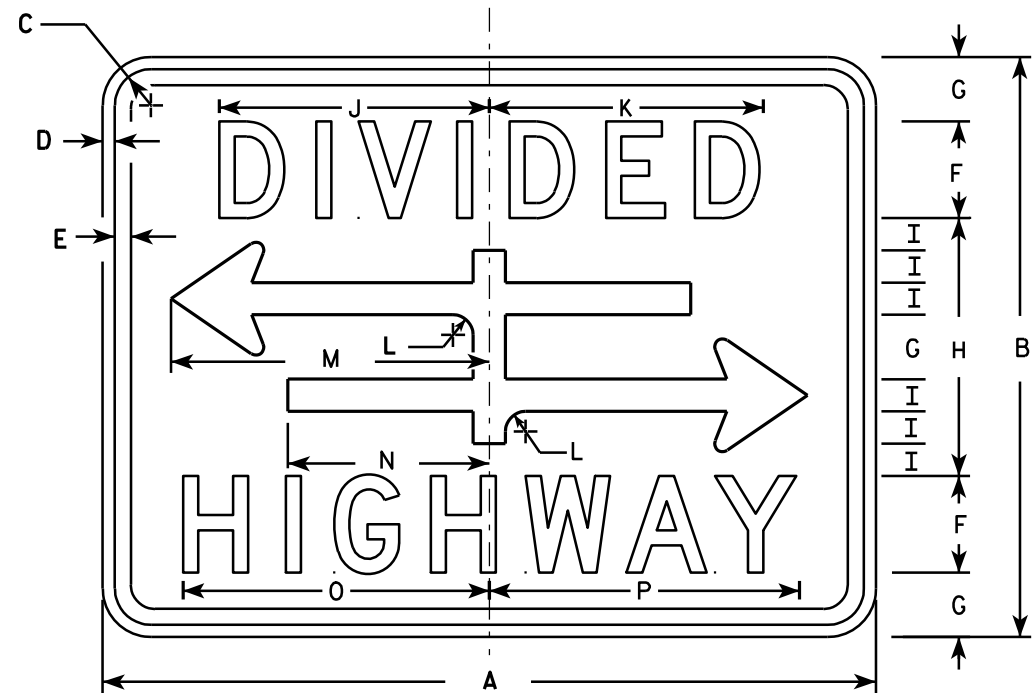
STANDARD SIGN

R6-2 R&L

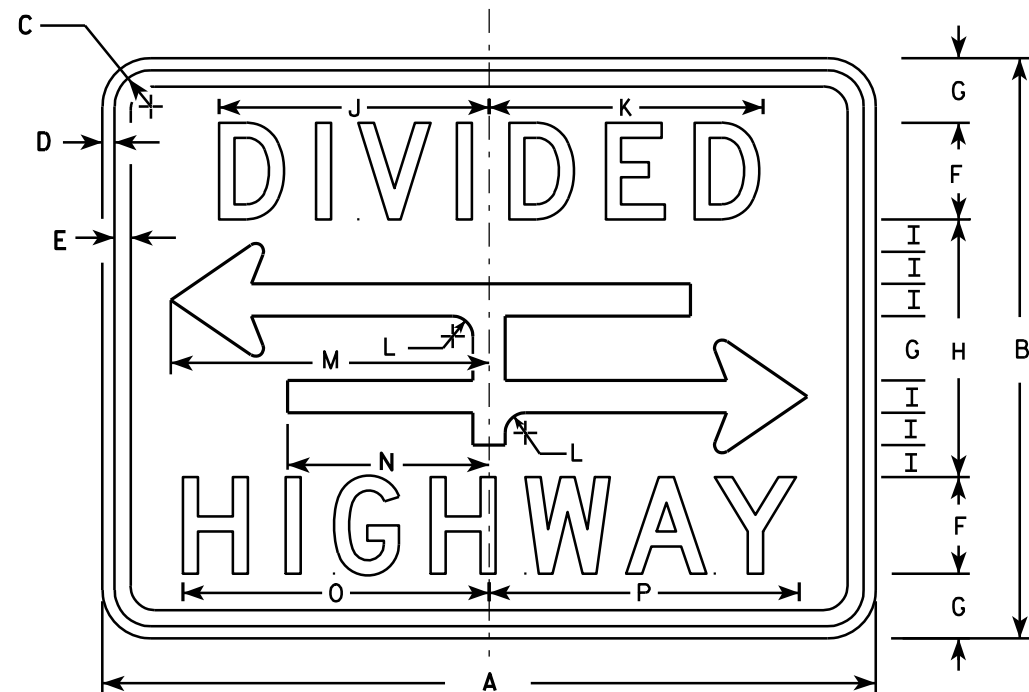
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8



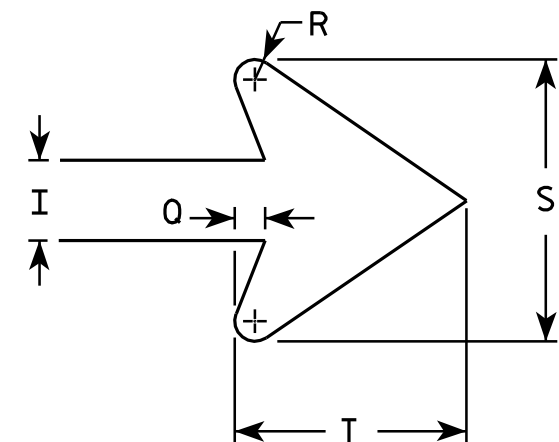
R6-3



R6-3A

NOTES

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



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	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

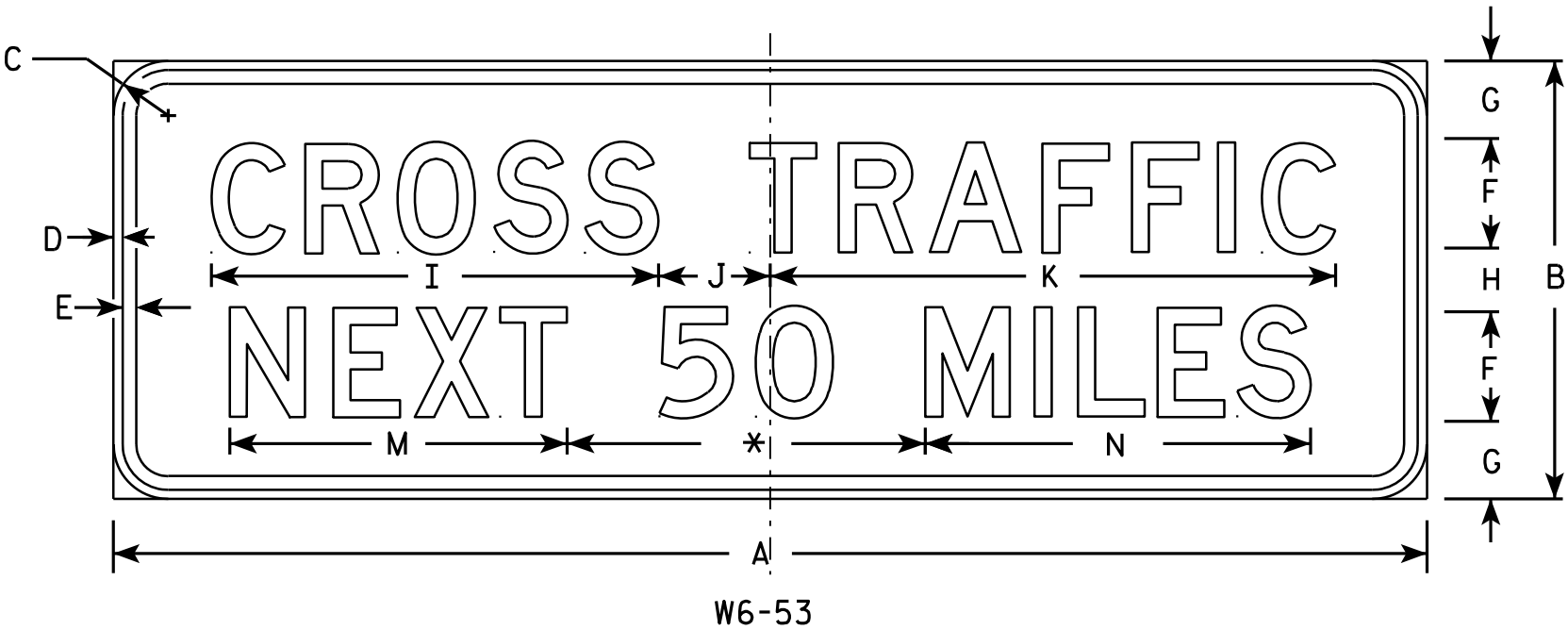
PROJECT NO:

SHEET NO:

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 Non - reflective
- 3. Message Series - D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.



* Varies (See Note 5)

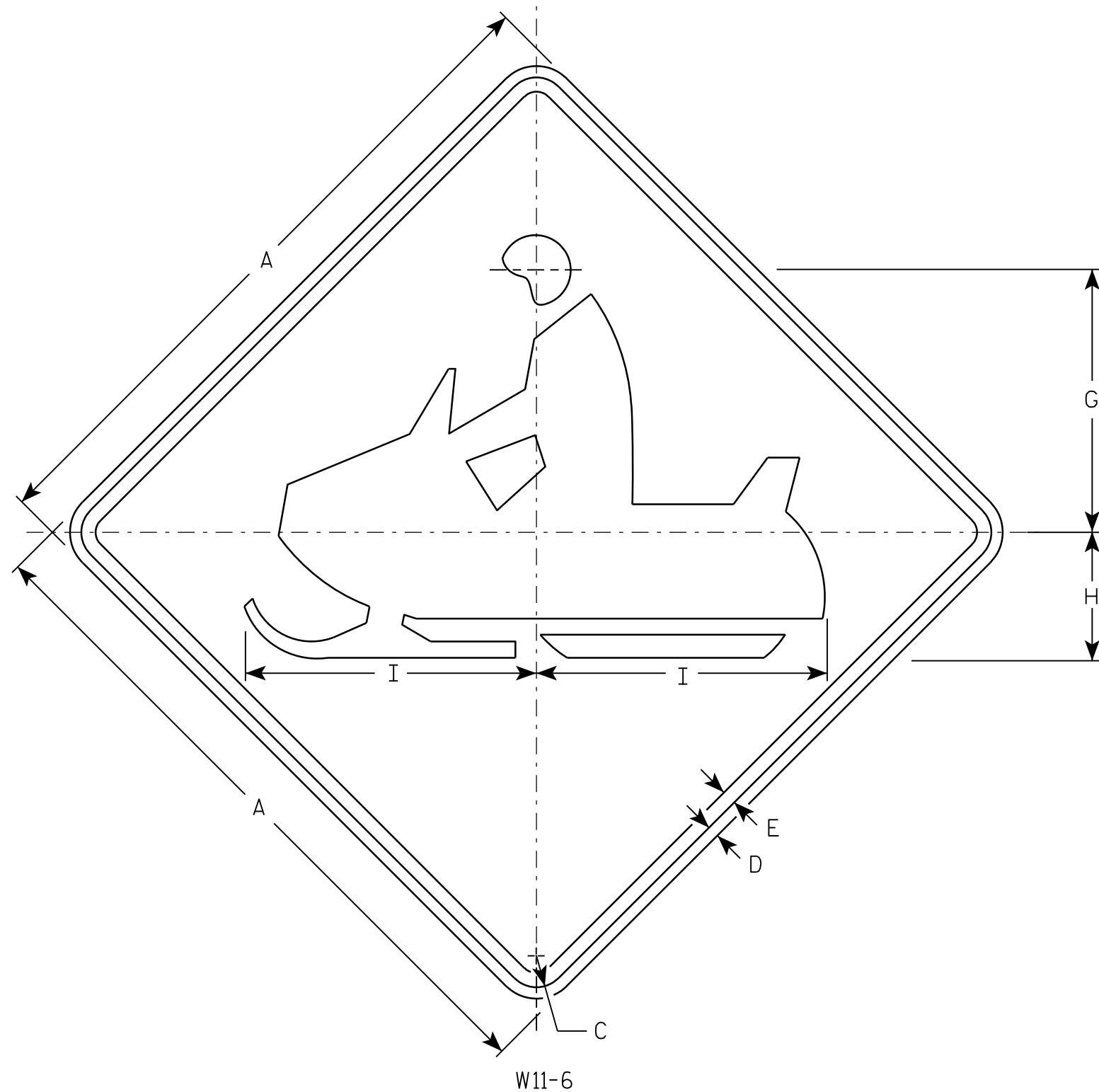
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S																											
2M																											
3																											
4	144	48	6	1	1½	12	9	6	49	12 ¼	62		37	42 ¼													48.0
5																											

STANDARD SIGN
W6 - 53

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 03/12/13 PLATE NO. W6-53.6



W11-6

NOTES

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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		9 1/2	4 1/2	10 1/4																		4.0
2S	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
2M	30		1 3/8	1/2	5/8		11 1/2	5 5/8	12 3/4																		6.25
3	36		1 5/8	5/8	3/4		14 1/8	6 3/4	15 1/4																		9.0
4	48		2 1/4	3/4	1		19	9	20 1/2																		16.0
5																											

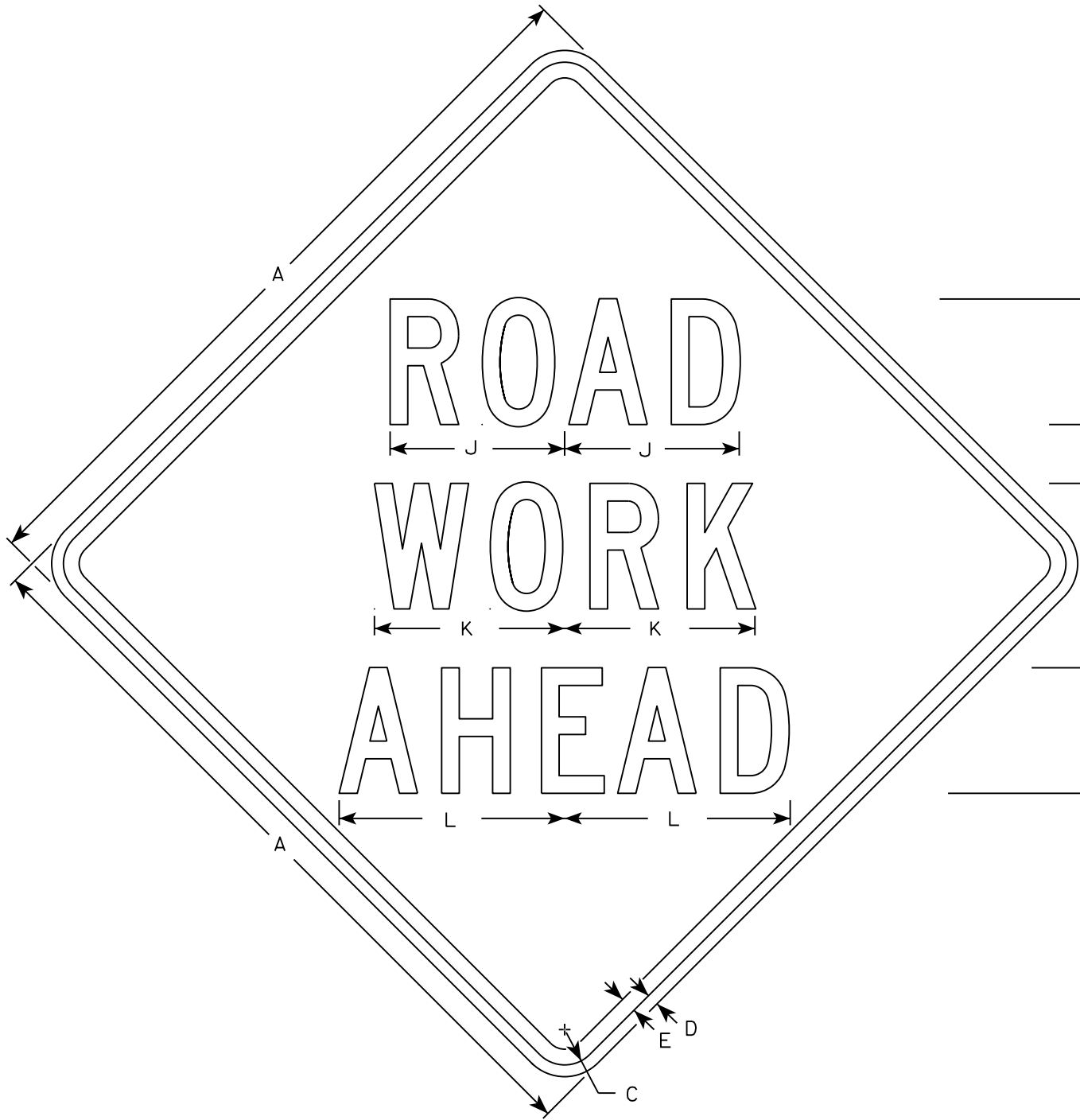
STANDARD SIGN
W11-6

WISCONSIN DEPT OF TRANSPORTATION

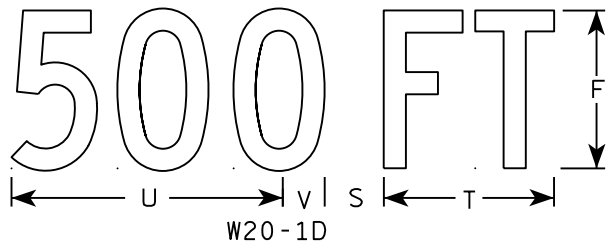
APPROVED Matthew R. Rauch
for State Traffic Engineer

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

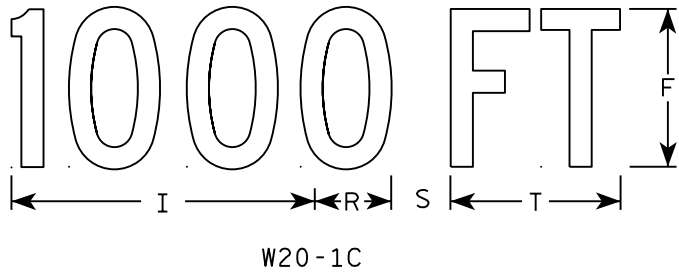
PROJECT NO: HWY: COUNTY: SHEET NO: **E**



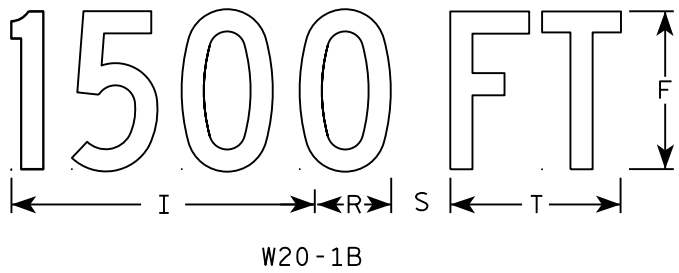
W20-1A



W20-1D



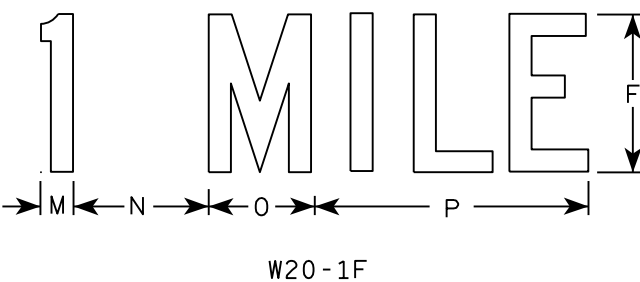
W20-1C



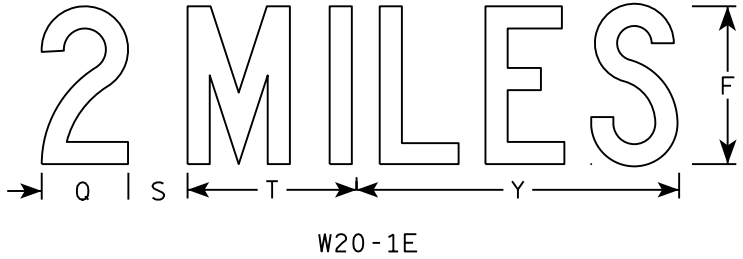
W20-1B



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.

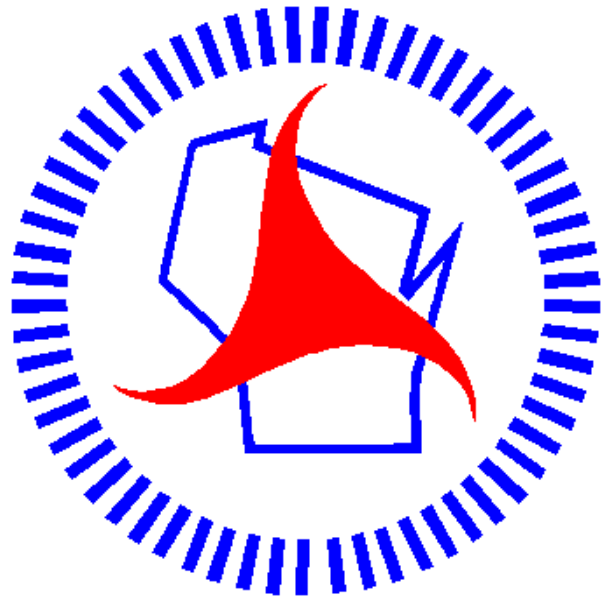
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 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



Wisconsin Department of Transportation

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