PROJECT ID: 1206-06-79
WITH: N/A

COUNTY: DANE

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1206-06-79		

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

MADISON - CAMBRIDGE

WHITNEY WAY TO IH 39/90

USH 12

DANE COUNTY

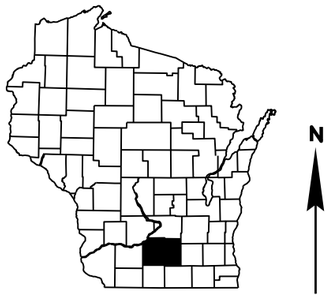
Approved for design of utility adjustments - 03/03/2020

STATE PROJECT NUMBER
1206-06-79

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS =



N

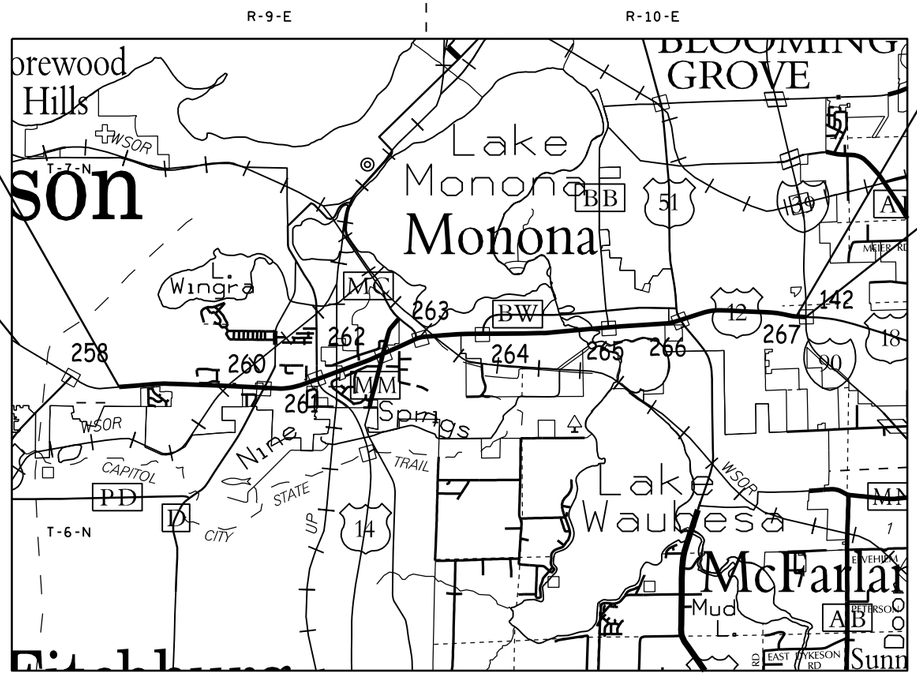
DESIGN DESIGNATION		USH 12/18
A.A.D.T. (2016)	=	122,130 - 141,140
A.A.D.T. (2036)	=	139,650 - 164,190
D.H.V. (2036)	=	13,686 - 15,926
D.D.	=	54/46
T.	=	6.2% - 8.0%
DESIGN SPEED	=	60 MPH
ESALS	=	11,899,000

BEGIN PROJECT
STA 512CL+86.25
X = 805944.5891
Y = 468361.5743

BEGIN CONSTRUCTION
STA 411CL+53.00
X = 797080.1912
Y = 472669.2415

END PROJECT
STA 938CL+17.18
X = 847727.7170
Y = 472840.9297

END CONSTRUCTION
STA 11EB+41.87
X = 848641.1696
Y = 472481.3947



LAYOUT
SCALE 0 1.0 MI.

TOTAL NET LENGTH OF USH 12 MADISON BELTLINE CENTERLINE = 9.974 MI.

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE (PL + 58.1)
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- PROPOSED JOINT LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

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

UTILITIES
- COMMUNICATION OVERHEAD (C-OH)
- COMMUNICATION UNDERGROUND (C-UG)
- ELECTRIC OVERHEAD (OH)
- ELECTRIC UNDERGROUND (E)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, DANE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCE MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD (2012).

ORIGINAL PLANS PREPARED BY

HNTB
10 W MIFFLIN STREET
SUITE 300
MADISON, WI 53703
(608) 259-0045

(Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	
Designer	HNTB
Project Manager	DEREK POTTER
Regional Examiner	SW REGION
Regional Supervisor	BRENDA SCHOENFELD
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: _____ (Signature)

E

UTILITY CONTACTS

ANR PIPELINE COMPANY - GAS/PETROLEUM
TODD BRISTER
W3925 PIPELINE LN
EDEN, WI 53019
(920) 477-2235
TODD_BRISTER@TRANSCANADA.COM

AT&T WISCONSIN – COMMUNICATION
CAROL ANASON
316 W. WASHINGTON AVE
MADISON, WI 53701
(608) 252-2385
CA2624@ATT.COM

ATC MANAGEMENT, INC. – ELECTRICITY
Anthony Marciniak
W 234 N 2000 Ridgeview Parkway Ct
P.O. Box 47
Waukesha, WI 53187-0047
(262) 506-6814
AMARCINIAK@ATCLLC.COM

ASTREA - COMMUNICATION
ANDREW HEIGL
105 KENT ST
P.O. BOX 190
IRON MOUNTAIN, MI 49801
(906) 221-7536
ASTREACONSTRUCTION@ASTREACONNECT.COM

BEAR COMMUNICATIONS
DAVE CHOATE
5119 TERMINAL DR
MCFARLAND, WI 53558
(608) 209-7406
DCHOATE@BEARCOMMUNICATIONS.NET

CHARTER COMMUNICATIONS
LUKAS LACROSSE
2701 DANIELS ST
MADISON, WI 53718
(608) 709-1562 X 41562
LUKAS.LACROSSE@CHARTER.COM

CITY OF FITCHBURG – ROAD FACILITIES
BILL BALKE
5520 LACY RD
FITCHBURG, WI 53711
(608) 270-4264
BILL.BALKE@FITCHBURGWI.GOV

CITY OF FITCHBURG – STREET LIGHTING
LISA COLEMAN
5520 LACY RD
FITCHBURG, WI 53711
608-270-4261
LISA.COLEMAN@FITCHBURGWI.GOV

CITY OF MADISON ENGINEERING – STREET LIGHTING
BRIAN SMITH
215 MARTIN LUTHER KING, JR. BLVD
P.O. BOX 2986
MADISON, WI 53701-2986
(608) 261-9625
BSMITH@CITYOFMADISON.COM

CITY OF MADISON ENGINEERING – SEWER
GREG FRIES
210 MARTIN LUTHER KING JR. BLVD, RM 115
MADISON, WI 53703
(608) 266-4751
GFRIES@CITYOFMADISON.COM

CITY OF MONONA - SEWER AND WATER
DAN STEPHANY
5211 SCHLUTER RD
MONONA, WI 53716
(608) 222-2525
DSTEPHANY@CI.MONONA.WI.US

DIVISION OF ENTERPRISE TECHNOLOGY – COMMUNICATION
TODD PALMER
5830 FEMRITE DR
MADISON, WI 53718
(608) 224-4010
TODDA.PALMER@WISCONSIN.GOV

EXTENET SYSTEMS - COMMUNICATION
EXTENET SYSTEMS NOC
3030 WARRENVILLE RD, STE 340
LISLE, IL 60532
(866) 892-5327
NOC@EXTENETSYSTEMS.COM

MADISON GAS AND ELECTRIC - ELECTRIC
JANE ROSSING
P.O BOX 1231
MADISON, WI 53701-1231
(608) 252-7099
WORKPLANS@MGE.COM

MADISON GAS AND ELECTRIC – GAS/PETROLEUM
JANE ROSSING
P.O BOX 1231
MADISON, WI 53701-1231
(608) 252-7099
WORKPLANS@MGE.COM

MADISON METROPOLITAN SEWERAGE DISTRICT
ERIC HJELLEN
1610 MOORLAND RD
MADISON, WI 53713
(608) 222-1202
ERICH@MADSEWER.ORG

MADISON WATER UTILITY - WATER
ADAM WIEDERHOEFT
119 E OLIN AVE
MADISON, WI 53713-1431
(608) 266-9121
AWIEDERHOEFT@MADISONWATER.ORG

MCI - COMMUNICATION
BONNIE BEACH
2410 PACKERS AVE
MADISON, WI 53704
(608) 294-7411
BONNIE.S.BEACH@VERIZON.COM

OAKRIDGE SANITARY DISTRICT
RENEE SCHWASS
2120 FISH HATCHERY RD
MADISON, WI 53713
(608) 210-7213
SCHWASSR@TOWN.MADISON.WI.US

PAETEC – COMMUNICATION
MARY BETH FISHER
13935 BISHOPS DR
BROOKFIELD, WI 53005
(262) 792-7938
MARY.B.FISHER@WINDSTREAM.COM

TDS METROCOM LLC - COMMUNICATION
JERRY MYERS
525 JUNCTION RD
MADISON, WI 53717
(608) 664-4404
JERRY.MYERS@TDSTELECOM.COM

US SIGNAL COMPANY LLC - COMMUNICATION LINE
RYAN MIEDEMA
201 IONIA AVE SW
GRAND RAPIDS, MI 49503
(616) 233-7144
RJMIEDEMA@USSIGNAL.COM

WISDOT – COMMUNICATION
JEFF MADSON
433 W. ST. PAUL AVE, STE 300
MILWUAKE, WI 53203-3007
(414) 225-3723
JEFFREY.MADSON@DOT.WI.GOV

WISDOT – RWIS
MIKE ADAMS
P.O. BOX 7986
MADISON, WI 53707-7986
(608) 266-5004
MICHAEL.ADAMS@DOT.WI.GOV

WISCONSIN INDEPENDENT NETWORK – COMMUNICATION
DICK HAMMETTER
800 WISCONSIN AVE, STE 219
EAU CLAIRE, WI 54703
(715) 838-4406
HAMMETTER@WINS.NET

WINDSTREAM KDL – COMMUNICATION
ERIC BECKER
314 N DANZ AVE
GREEN BAY, WI 54302-3526
(920) 461-9825
ERIC.BECKER@WINDSTREAM.COM

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

DNR AREA LIAISON

ERIC HEGGELUND
3911 FISH HATCHERY ROAD
FITCHBURG, WI 53711
(608) 275-3301
ERIC.HEGGELUND@WISCONSIN.GOV

REGION CONTACT

DEREK POTTER
111 INTERSTATE BLVD
EDGERTON, WI 53534
(608) 884-7135
DEREK.POTTER@DOT.WI.GOV

DESIGN CONTACT

NICK BENNETT
10 W. MIFFLIN ST, SUITE 300
MADISON, WI 53703
(608) 294-5001
NBENNETT@HNTB.COM

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
PAVEMENT MARKINGS
TRAFFIC CONTROL
STAGED CONSTRUCTION
DETOUR ROUTES
ALIGNMENT DETAILS

2

GENERAL NOTES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY ANY OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS AT THE CONTRACTOR'S EXPENSE OR AS OTHERWISE DIRECTED BY THE FIELD ENGINEER. DISTURBED AREAS ARE TO BE TOPSOILED (SALVAGED), FERTILIZED, SEEDED, AND EMATTED AS DIRECTED BY THE FIELD ENGINEER.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL OR EQUIPMENT WITHIN WETLANDS OR PROTECTED AREAS IS NOT ALLOWED. WETLAND BOUNDARIES ARE SHOWN ON PLAN SHEETS.

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

REMOVING CONCRETE INCLUDES ANY MESH OR REINFORCEMENT THAT MAY BE PART OF THE PAVEMENT STRUCTURE. EXISTING PAVEMENT DEPTHS ARE BASED ON AS-BUILT DATA AND MAY VARY IN THE FIELD.

BASE PATCHING CONCRETE OVERNIGHT AND CONCRETE PAVEMENT REPAIR AND REPLACEMENT OVERNIGHT JOINT LOCATIONS TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

REMOVING PAVEMENT BUTT JOINTS AT BRIDGES SHALL NOT EXTEND INTO CONCRETE PAVEMENT APPROACH SLABS.

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

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

TACK COAT APPLICATION RATES ARE ESTIMATED AT 0.07 GALLONS PER SY BETWEEN THE EXISTING CONCRETE PAVEMENT AND THE 2-INCH ASPHALT OVERLAY AND BETWEEN THE MILLED ASPHALT SURFACE AND THE 2-INCH ASPHALT OVERLAY.

ALIGNMENT IDENTIFIERS	
CL	USH 12/18
EB	USH 12/18 EB
TDSW	USH 12/18 EB EXIT TO TODD DRIVE
TDNE	USH 12/18 WB EXIT TO TODD DRIVE
FHSW	USH 12/18 EB EXIT TO SB FISH HATCHERY
FHSE	USH 12/18 EB ENTRANCE FROM FISH HATCHERY

PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS
4 HT 58-28 V	2"	2" SURFACE LAYER

PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS
4 HT 58-28 V	4"	2" SURFACE LAYER 2" LOWER LAYER

*WHERE PAVEMENT IS 4" THICK.

PAVEMENT TYPE	LAYER	LAYERS
4 HT 58-28 V	5.5"	3" SURFACE LAYER 2.5" LOWER LAYER

*CRASH INVESTIGATION SITES, RAMPS, AND EB USH 12 EXIT LANE TO NB FISH HATCHERY

PAVEMENT TYPE	LAYER	LAYERS
4 HT 58-28 V	3"	3" SURFACE LAYER

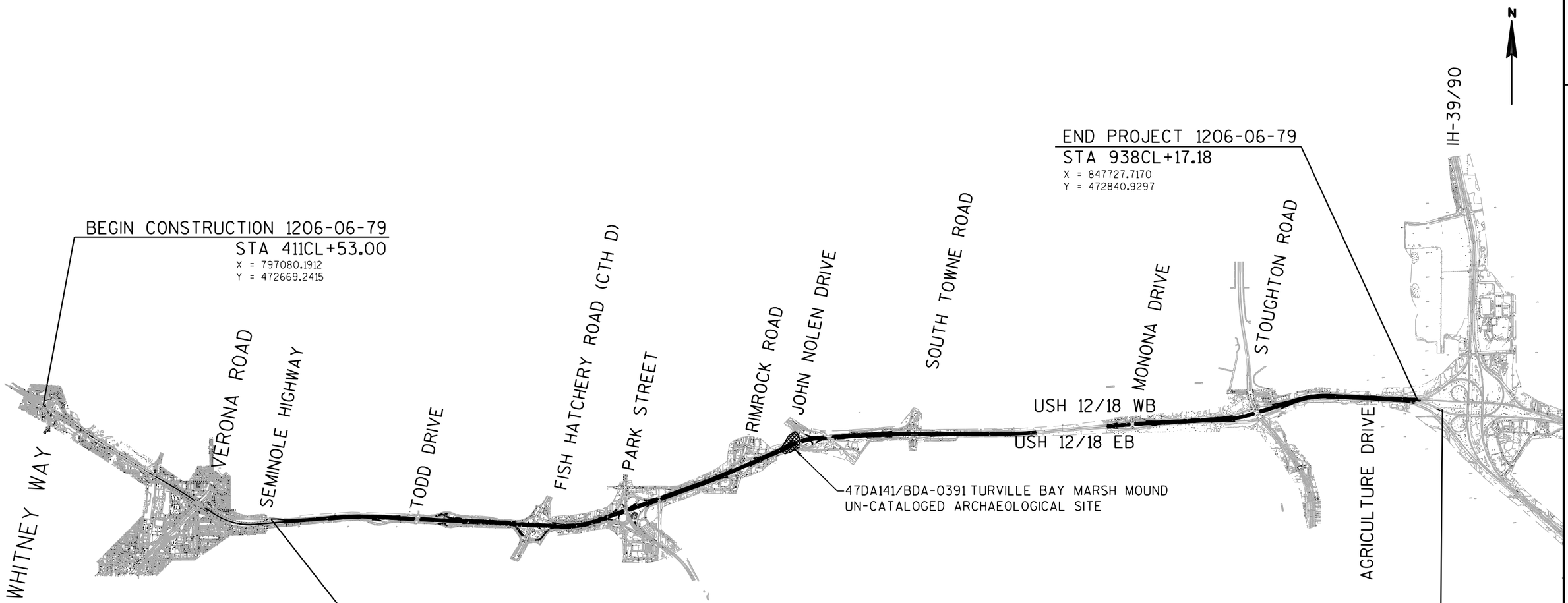
*RAMP SHOULDERS

ABBREVIATIONS

AEW	APRON END WALL
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CMCP	CULVERT PIPE CORRUGATED METAL
CONC	CONCRETE
CP	CULVERT PIPE
CPRC	CULVERT PIPE REINFORCED CONCRETE
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC-YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
EAT	ENERGY ABSORBING TERMINAL
FE	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MIN	MINIMUM
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
RCAEW	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RRSP	RAILROAD SPIKE
RT	RIGHT
SALV	SALVAGED
SAPBC	SALVAGED ASPHALTIC PAVEMENT BASE COARSE
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWINGS
SE	SUPER ELEVATION
SF	SQUARE FOOT
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT

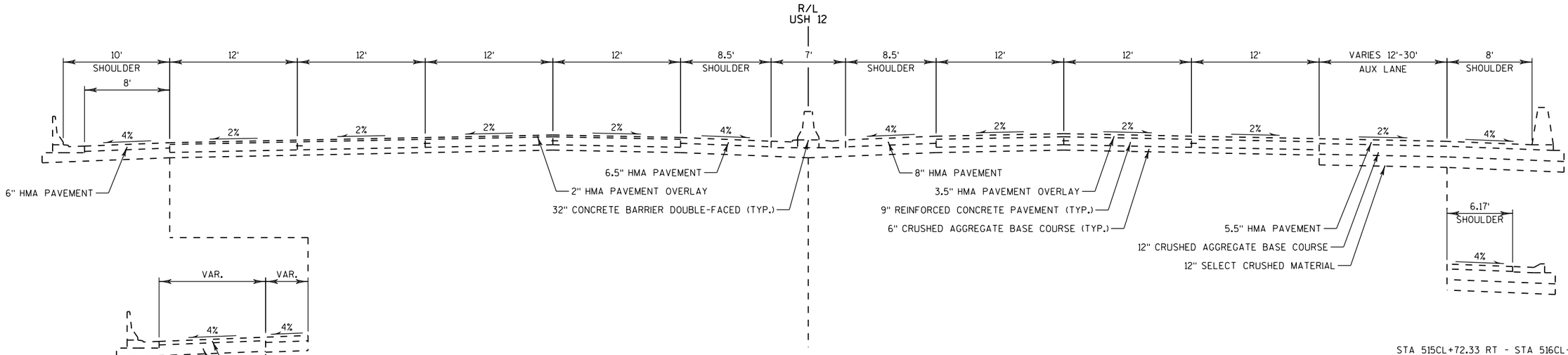
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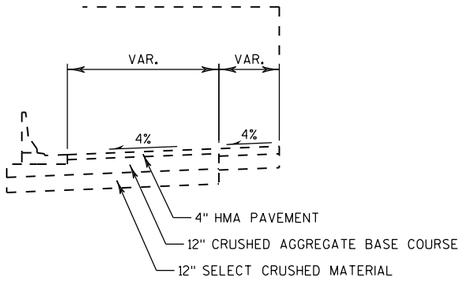


PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PROJECT OVERVIEW	SHEET	E

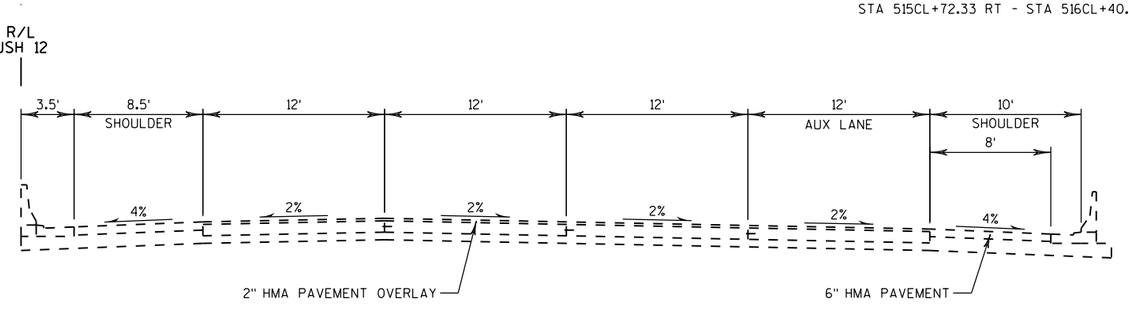
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STA 515CL+72.33 RT - STA 516CL+40.53 RT



STA 528CL+10.48 LT - STA 532CL+65.00 LT



STA 529CL+15.15 RT - STA 541CL+13.89 RT

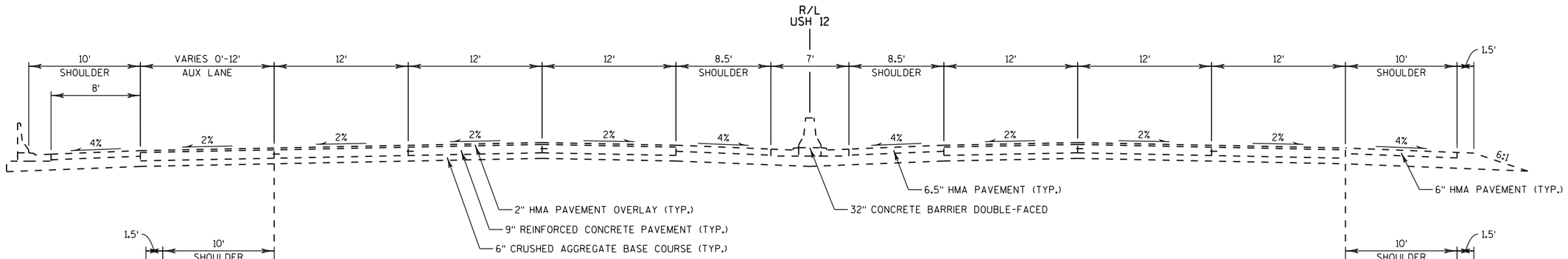
TYPICAL EXISTING SECTION

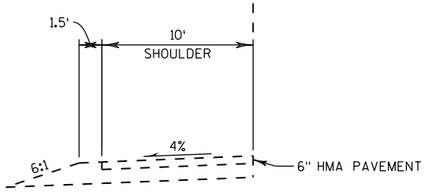
SEMINOLE HIGHWAY TO TODD DRIVE EB EXIT RAMP

STA 512CL+86.25 RT - STA 541CL+14.54 RT

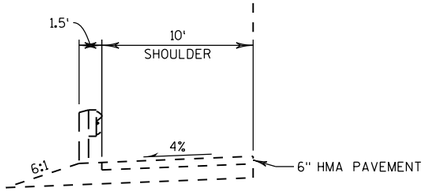
STA 512CL+86.25 LT - STA 541CL+14.54 LT

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS: EXISTING	SHEET	E

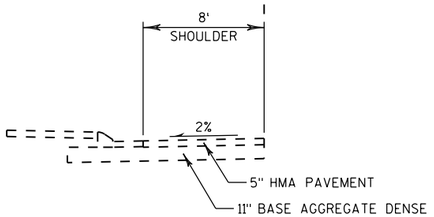




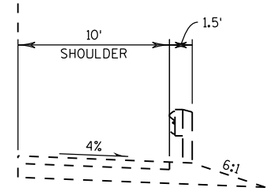
STA 567CL+58.13 LT - STA 575CL+90.90 LT



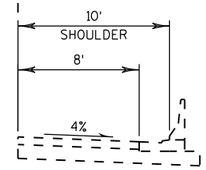
STA 556CL+54.65 LT - STA 561CL+03.59 LT
STA 563CL+45.94 LT - STA 567CL+58.13 LT



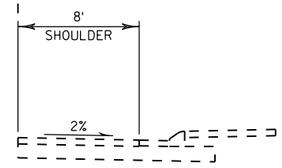
STA 575CL+90.90 LT - STA 580CL+57.50 LT



STA 549CL+19.54 RT - STA 550CL+00.21 RT
STA 554CL+90.80 RT - STA 560CL+85.54 RT
STA 563CL+28.71 RT - STA 568CL+14.65 RT



STA 550CL+00.21 RT - STA 554CL+90.80 RT



STA 572CL+90.90 RT - STA 579CL+78.47 RT

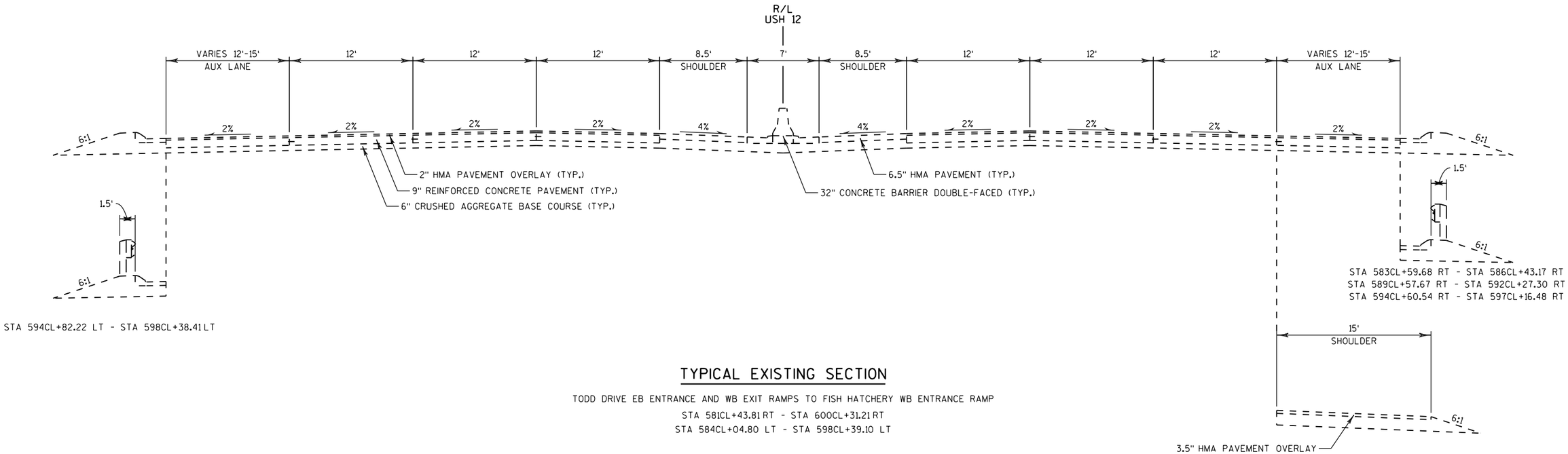
TYPICAL EXISTING SECTION

TODD DRIVE EB EXIT RAMP TO TODD DRIVE EB ENTRANCE AND WB EXIT RAMPS

STA 541CL+14.86 RT - STA 560CL+85.54 RT
STA 563CL+28.71 RT - STA 579CL+78.47 RT
STA 541CL+14.86 LT - STA 561CL+03.59 LT
STA 563CL+45.94 LT - STA 580CL+57.50 LT

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS: EXISTING	SHEET	E

2

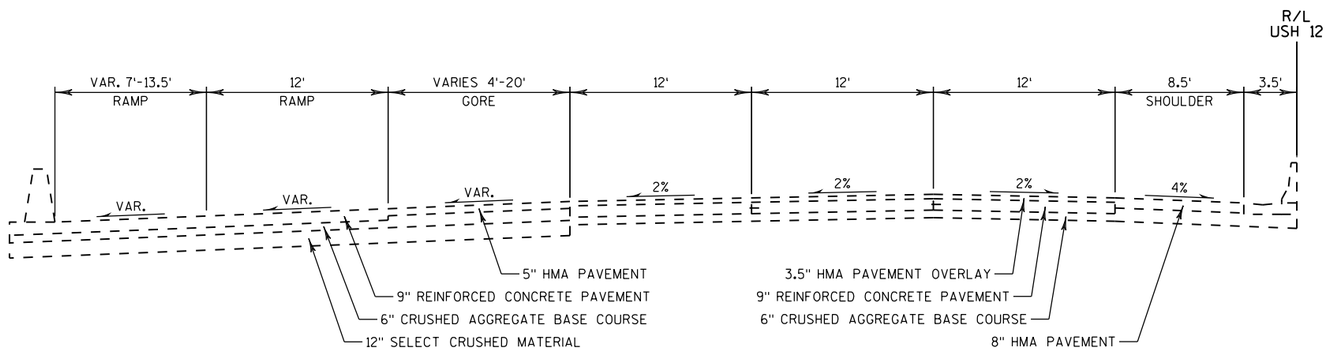


TYPICAL EXISTING SECTION

TODD DRIVE EB ENTRANCE AND WB EXIT RAMPS TO FISH HATCHERY WB ENTRANCE RAMP

STA 581CL+43.81 RT - STA 600CL+31.21 RT

STA 584CL+04.80 LT - STA 598CL+39.10 LT



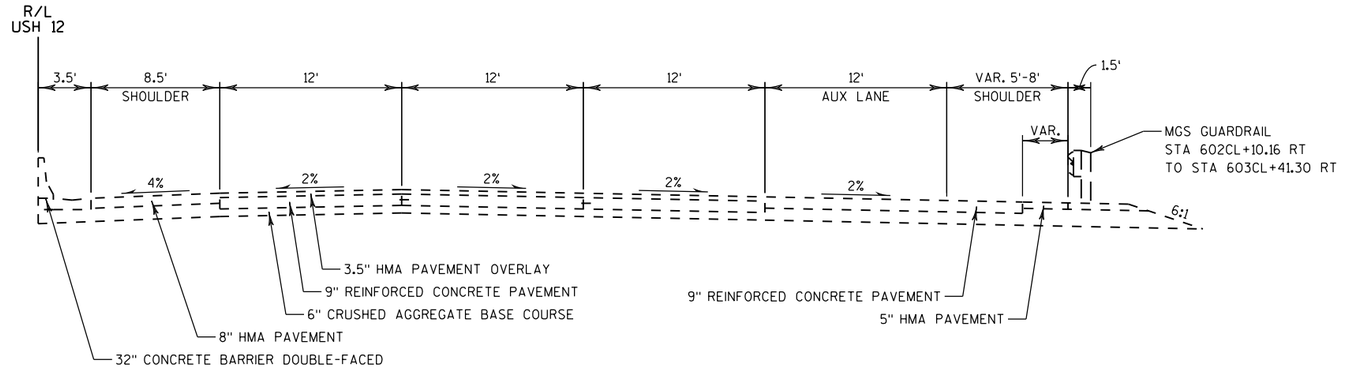
TYPICAL EXISTING SECTION

FISH HATCHERY WB ENTRANCE RAMP

STA 598CL+39.10 LT - STA 600CL+44.81 LT

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS: EXISTING	SHEET	E

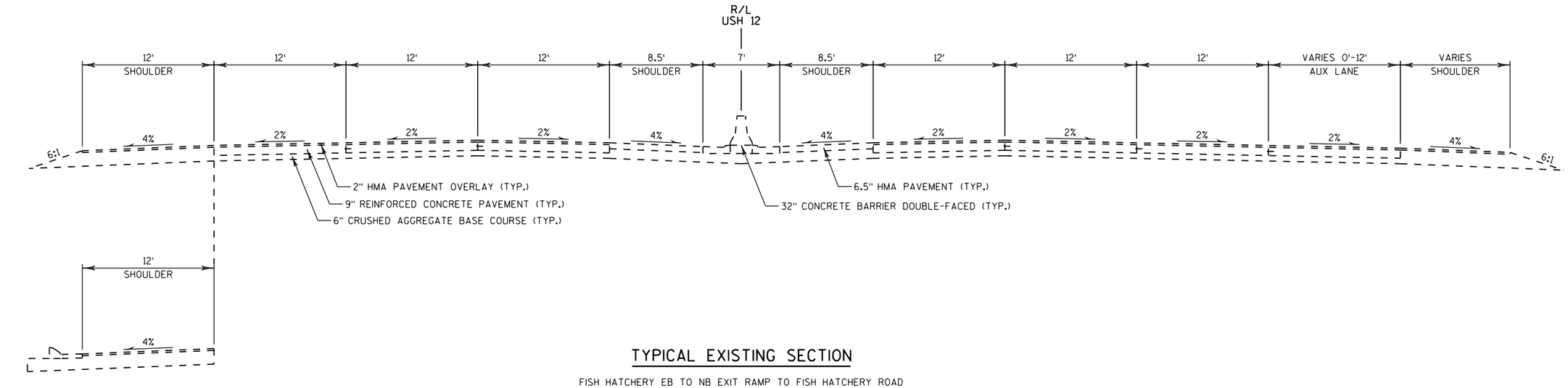
2



TYPICAL EXISTING SECTION

FISH HATCHERY EB TO NB EXIT RAMP

STA 600CL+31.21 RT - STA 603CL+41.30 RT



STA 602CL+00.15 LT - STA 604CL+43.42 LT

TYPICAL EXISTING SECTION

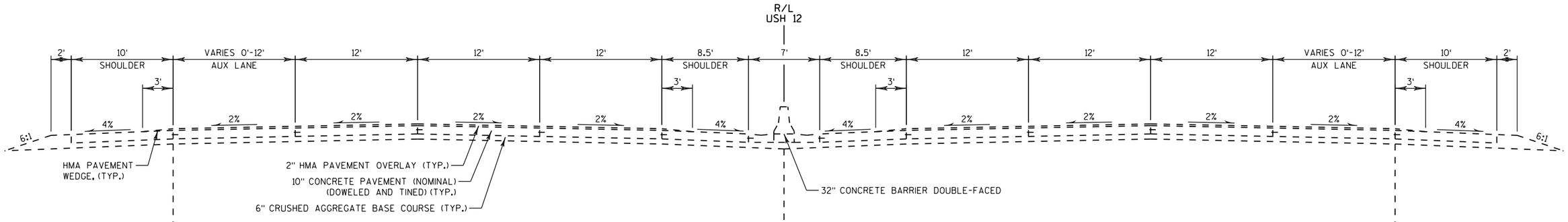
FISH HATCHERY EB TO NB EXIT RAMP TO FISH HATCHERY ROAD

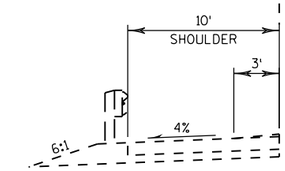
STA 603CL+41.30 RT - STA 608CL+96.34 RT

STA 600CL+44.11 LT - STA 608CL+96.34 LT

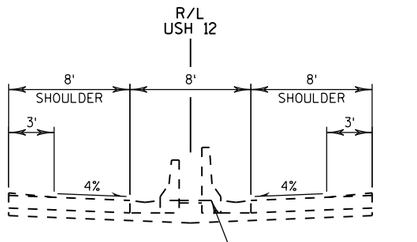
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS: EXISTING	SHEET	E

2

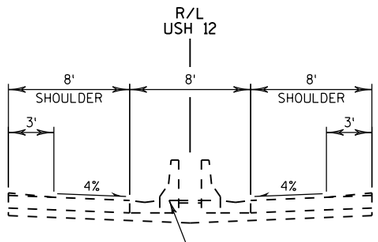




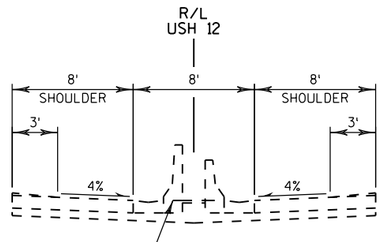
SEE PLAN DETAILS FOR STATION RANGES



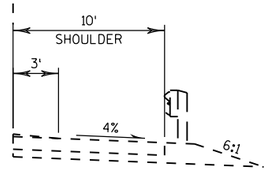
613CL+79.18 - 630CL+80.37
659CL+42.68 - 672CL+80.07
672CL+80.07 - 696CL+37.47
714CL+14.68 - 722CL+37.85



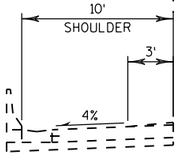
605CL+99.78 - 613CL+79.18
630CL+80.37 - 659CL+42.68
672CL+80.07 - 696CL+37.47
714CL+14.68 - 722CL+37.85



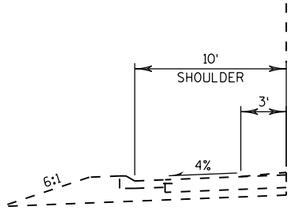
696CL+37.47 - 714CL+14.68



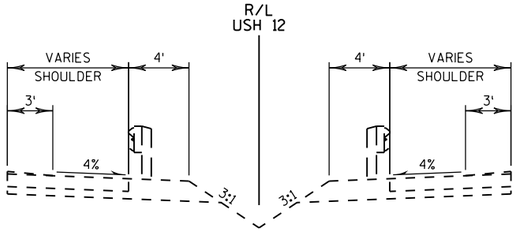
SEE PLAN DETAILS FOR STATION RANGES



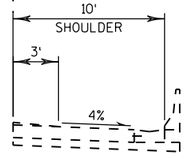
651CL+48.37 LT - 674CL+71.00 LT



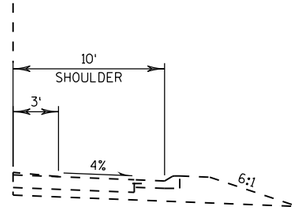
SEE PLAN DETAILS FOR STATION RANGES



STA 907CL+77.80 RT - STA 936CL+53.65 RT
STA 909CL+25.95 LT - STA 937CL+41.89 LT



648CL+92.40 RT - 675CL+78.76 RT



SEE PLAN DETAILS FOR STATION RANGES

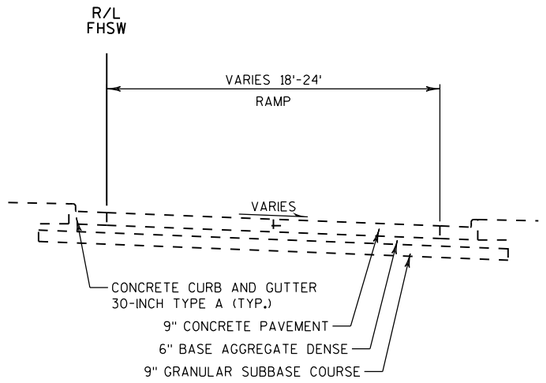
TYPICAL EXISTING SECTION

FISH HATCHERY ROAD TO IH-39

STA 608CL+96.34 RT - STA 638CL+32.04 RT
STA 641CL+72.42 RT - STA 651CL+44.98 RT
STA 653CL+35.71 RT - STA 706CL+98.33 RT
STA 710CL+33.33 RT - STA 718CL+09.57 RT
STA 722CL+57.03 RT - STA 775CL+64.45 RT
STA 823CL+37.82 RT - STA 830CL+26.81 RT
STA 833CL+43.85 RT - STA 876CL+27.67 RT
STA 880CL+07.12 RT - STA 936CL+53.65 RT

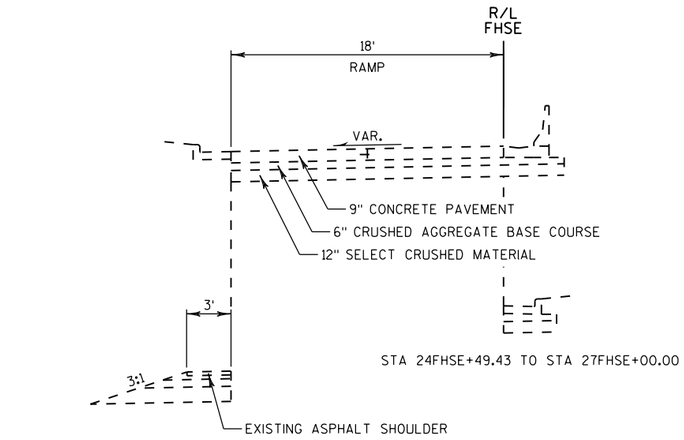
STA 608CL+96.34 LT - STA 638CL+39.57 LT
STA 641CL+81.15 LT - STA 651CL+72.33 LT
STA 654CL+57.07 LT - STA 707CL+02.40 LT
STA 710CL+37.28 LT - STA 717CL+36.64 LT
STA 721CL+84.51 LT - STA 795CL+35.54 LT
STA 823CL+39.44 LT - STA 830CL+12.62 LT
STA 833CL+44.91 LT - STA 876CL+13.64 LT
STA 879CL+93.19 LT - STA 937CL+41.89 LT

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS: EXISTING	SHEET	E



TYPICAL EXISTING SECTION

FISH HATCHERY EB TO SB EXIT RAMP
STA 11FHSW+38.85 TO STA 15FHSW+43.35

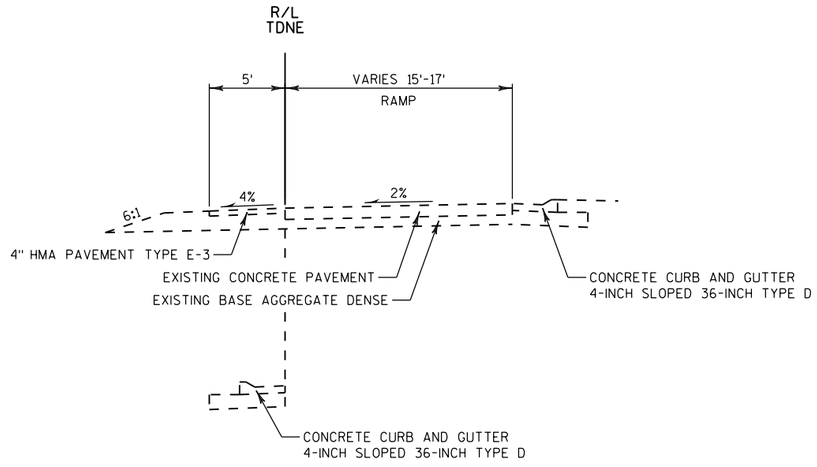


STA 24FHSE+49.43 TO STA 27FHSE+00.00

STA 25FHSE+59.78 TO STA 27FHSE+00.00

TYPICAL EXISTING SECTION

FISH HATCHERY EB ENTRANCE RAMP
STA 20FHSE+51.63 TO STA 27FHSE+00.00



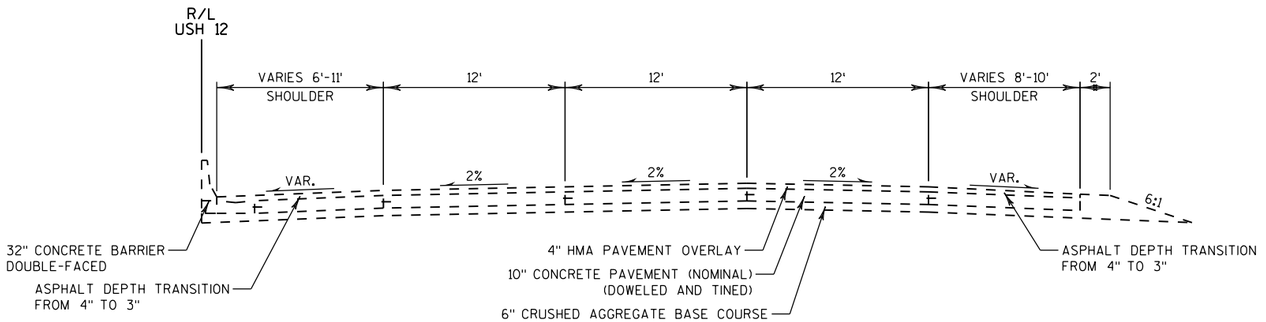
STA 479TDNE+62.47 TO STA 483TDNE+84.06

TYPICAL EXISTING SECTION

TODD DRIVE WB EXIT RAMP
STA 479TDNE+62.47 TO STA 487TDNE+40.00

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS: EXISTING	SHEET	E

2

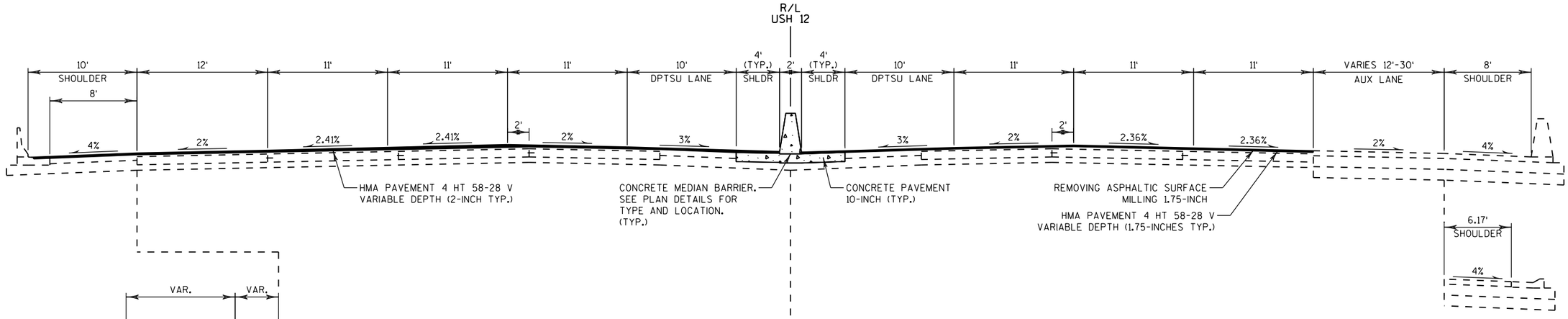


TYPICAL EXISTING SECTION

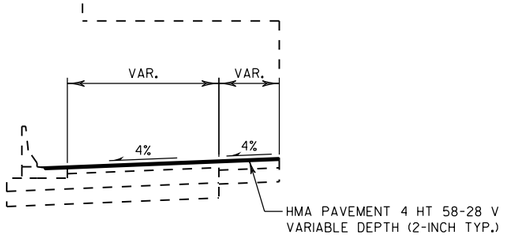
EB USH 12/18 TEST OVERLAY SECTION
STA 775CL+64.45 RT - 795CL+88.66 RT

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS: EXISTING	SHEET	E

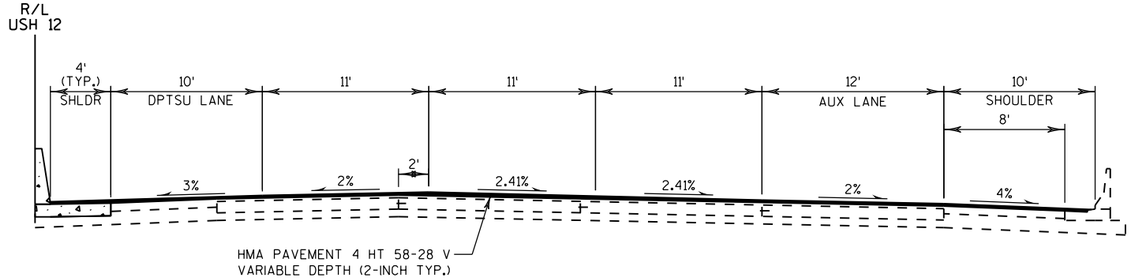
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STA 515CL+72.33 RT - STA 516CL+40.53 RT



STA 528CL+10.48 LT - STA 532CL+65.00 LT



STA 529CL+15.15 RT - STA 541CL+13.89 RT

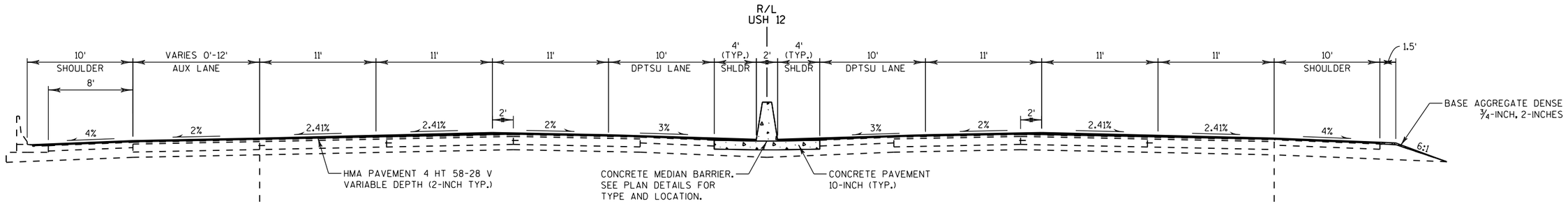
TYPICAL PROPOSED SECTION

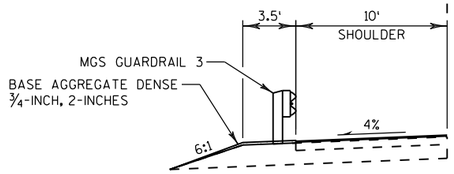
SEMINOLE HIGHWAY TO TODD DRIVE EB EXIT RAMP

STA 512CL+86.25 RT - STA 541CL+14.86 RT

STA 512CL+86.25 LT - STA 541CL+14.86 LT

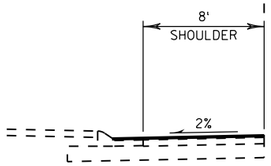
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS: PROPOSED	SHEET	E



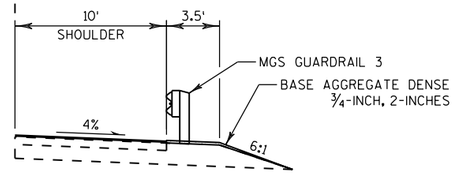


STA 556CL+54.65 LT - STA 561CL+03.59 LT
STA 563CL+45.94 LT - STA 567CL+58.13 LT

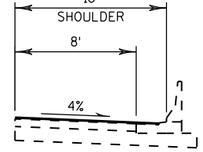
STA 567CL+58.13 LT - STA 575CL+90.90 LT



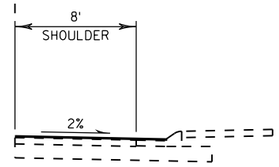
STA 575CL+90.90 LT - STA 580CL+57.50 LT



STA 549CL+19.54 RT - STA 550CL+00.21 RT
STA 554CL+90.80 RT - STA 560CL+85.54 RT
STA 563CL+28.71 RT - STA 568CL+14.65 RT



STA 550CL+00.21 RT - STA 554CL+90.80 RT

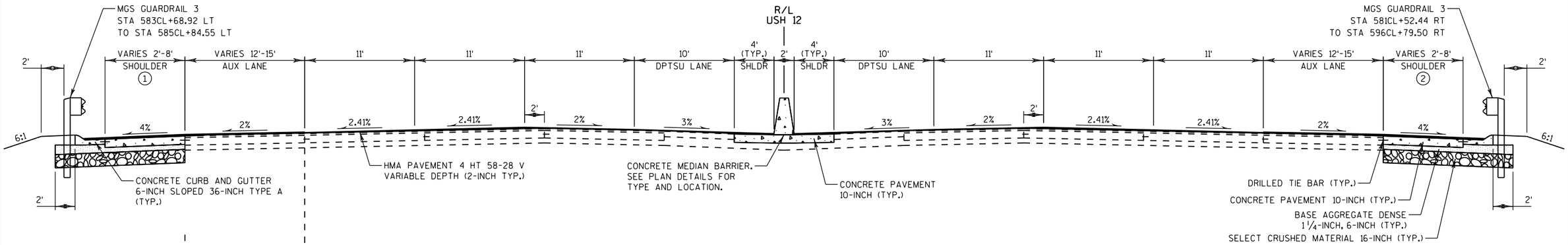


STA 572CL+90.90 RT - STA 579CL+78.47 RT

TYPICAL PROPOSED SECTION

TODD DRIVE EB EXIT RAMP TO TODD DRIVE EB ENTRANCE AND WB EXIT RAMPS
STA 541CL+14.86 RT - STA 560CL+85.54 RT
STA 563CL+28.71 RT - STA 579CL+78.47 RT
STA 541CL+14.86 LT - STA 561CL+03.59 LT
STA 563CL+45.94 LT - STA 580CL+57.50 LT

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS: PROPOSED	SHEET	E

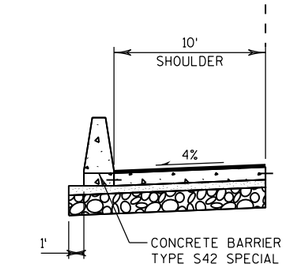


TYPICAL PROPOSED SECTION

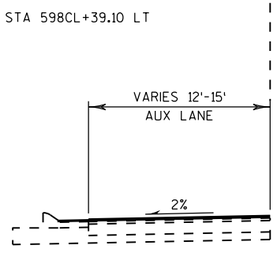
TODD DRIVE EB ENTRANCE AND WB EXIT RAMPS TO FISH HATCHERY WB ENTRANCE RAMP

STA 579CL+78.47 RT - STA 600CL+31.21 RT

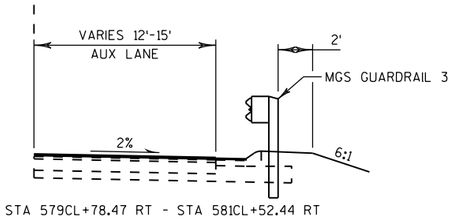
STA 580CL+57.50 LT - STA 598CL+39.10 LT



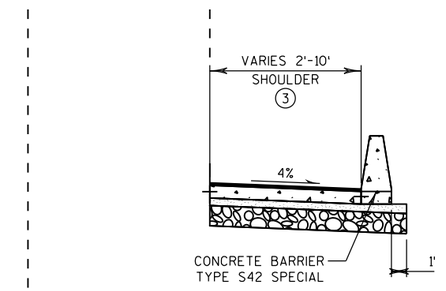
STA 592CL+00.00 LT - STA 598CL+39.10 LT



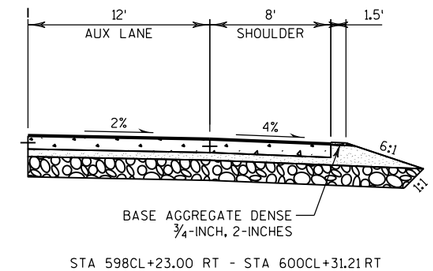
STA 580CL+57.50 LT - STA 583CL+53.70 LT



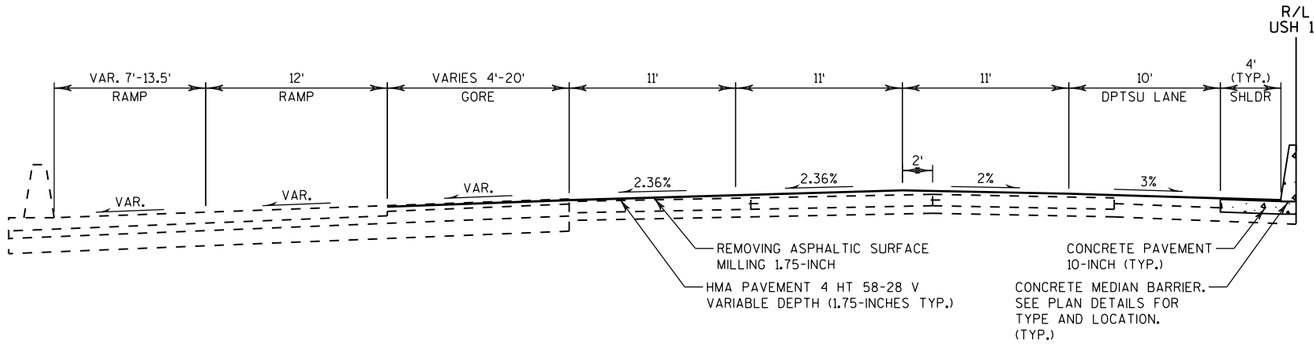
STA 579CL+78.47 RT - STA 581CL+52.44 RT



STA 581CL+52.44 RT - STA 586CL+56.04 RT



STA 598CL+23.00 RT - STA 600CL+31.21 RT



TYPICAL PROPOSED SECTION

FISH HATCHERY WB ENTRANCE RAMP

STA 598CL+39.10 LT - STA 600CL+44.81 LT

① VARIES 2'- STA 583CL+53.70 LT
TO 8'- STA 584CL+00.00 LT

8'- STA 584CL+00.00 LT
TO STA 592CL+00.00 LT

② 8'- STA 586CL+56.04 RT
TO STA 596CL+64.93 RT

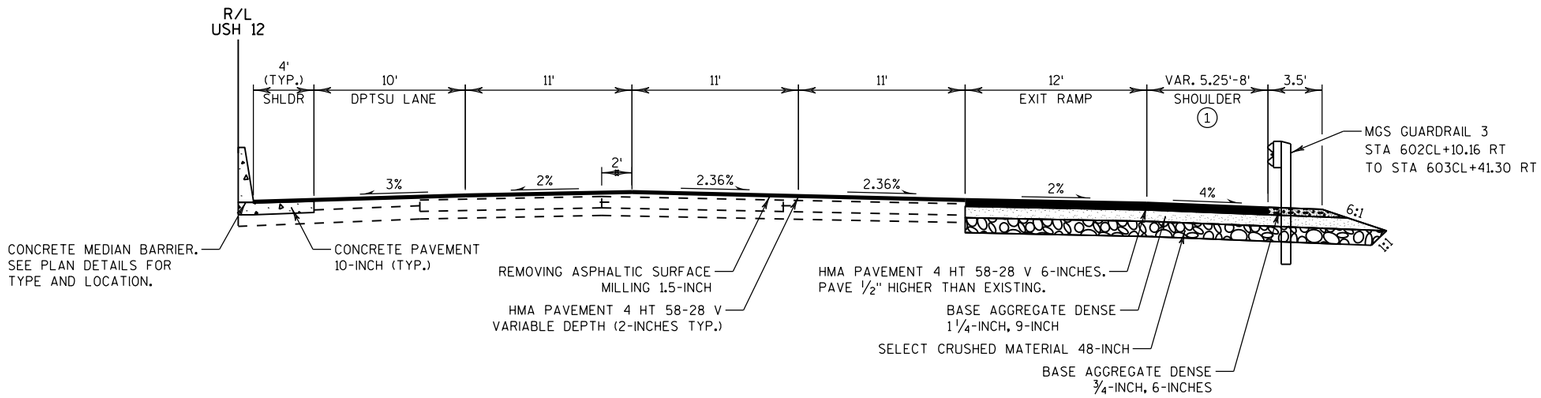
VARIES 8'- 596CL+64.93 RT
TO 2'- STA 597CL+76.67 RT

③ VARIES 2'- STA 581CL+52.44 RT
TO 8'- STA 585CL+03.85 RT

8'- STA 585CL+03.85 RT
TO STA 586CL+56.04 RT

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS: PROPOSED	SHEET	E

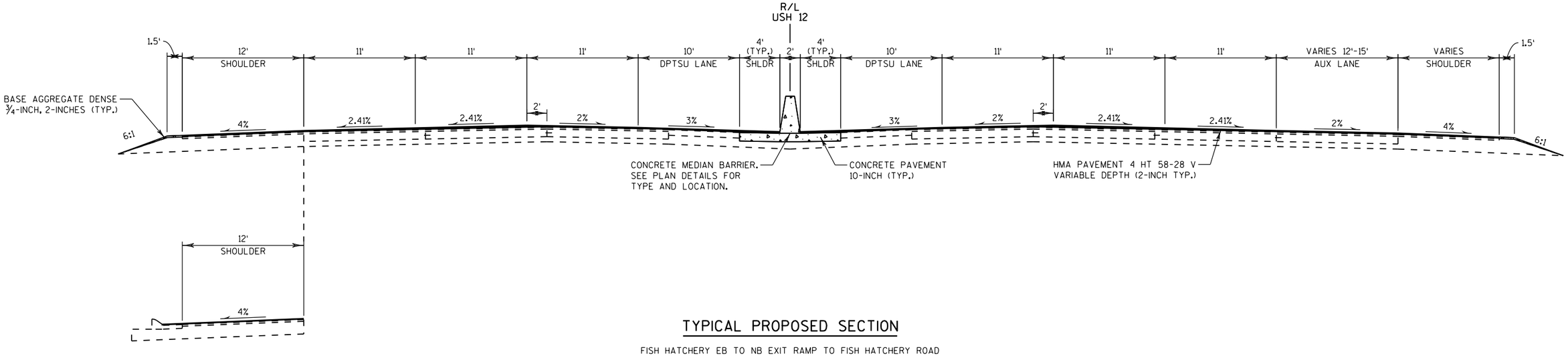
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TYPICAL PROPOSED SECTION

FISH HATCHERY EB TO NB EXIT RAMP

STA 600CL+31.21 RT - STA 603CL+41.30 RT



TYPICAL PROPOSED SECTION

FISH HATCHERY EB TO NB EXIT RAMP TO FISH HATCHERY ROAD

STA 603CL+41.30 RT - STA 608CL+96.34 RT

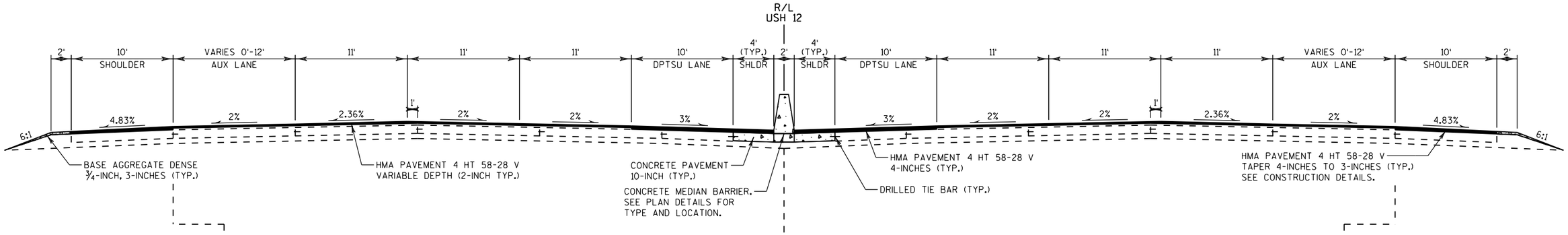
STA 600CL+44.11 LT - STA 608CL+96.34 LT

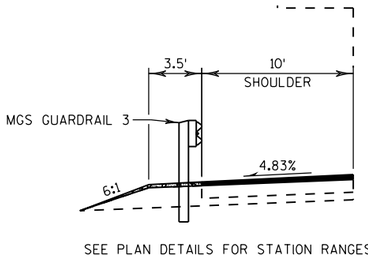
STA 602CL+00.15 LT - STA 604CL+43.42 LT

(1) 8'- STA 600CL+31.21 RT
TO STA 602+99.73 RT

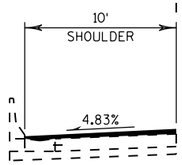
VARIES 8'- STA 602+99.73 RT
TO 5.25' STA 603+41.30 RT

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS: PROPOSED	SHEET	E

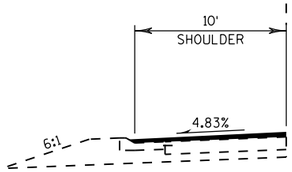




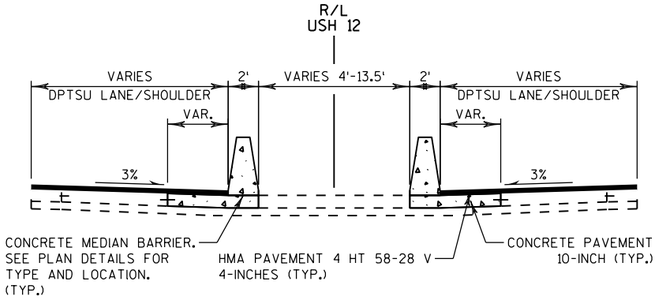
SEE PLAN DETAILS FOR STATION RANGES



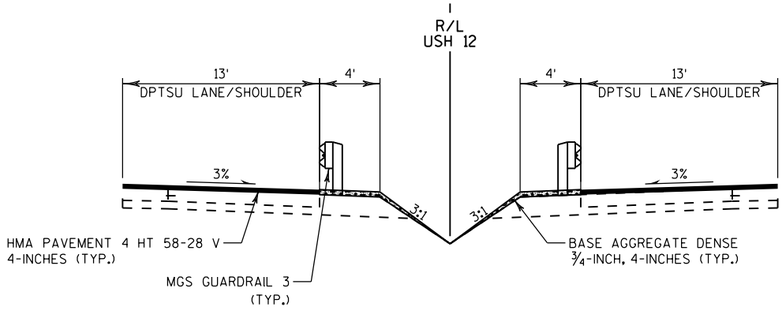
STA 651CL+48.37 LT - STA 674CL+71.00 LT



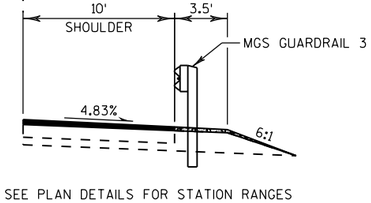
SEE PLAN DETAILS FOR STATION RANGES



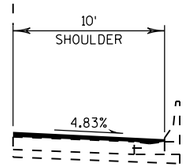
STA 899CL+85.13 RT - STA 907CL+77.80 RT
STA 899CL+85.13 LT - STA 909CL+25.95 LT



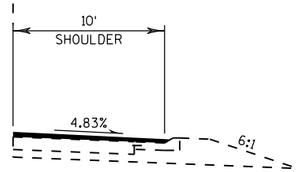
STA 907CL+77.80 RT - STA 936CL+53.65 RT
STA 909CL+25.95 LT - STA 937CL+41.89 LT



SEE PLAN DETAILS FOR STATION RANGES



STA 648CL+92.40 RT - STA 675CL+78.76 RT



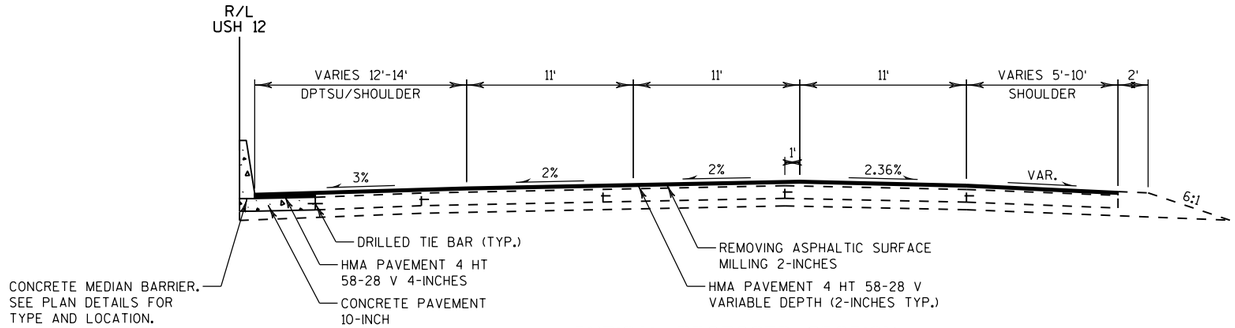
SEE PLAN DETAILS FOR STATION RANGES

TYPICAL PROPOSED SECTION

FISH HATCHERY ROAD TO IH-39

STA 608CL+96.34 RT - STA 638CL+32.04 RT	STA 608CL+96.34 LT - STA 638CL+39.57 LT
STA 641CL+72.42 RT - STA 651CL+44.98 RT	STA 641CL+81.15 LT - STA 651CL+72.33 LT
STA 653CL+35.71 RT - STA 706CL+98.33 RT	STA 654CL+57.07 LT - STA 707CL+02.40 LT
STA 710CL+33.33 RT - STA 718CL+09.57 RT	STA 710CL+37.28 LT - STA 717CL+36.64 LT
STA 722CL+57.03 RT - STA 775CL+64.45 RT	STA 721CL+84.51 LT - STA 795CL+35.54 LT
STA 823CL+37.82 RT - STA 830CL+26.81 RT	STA 823CL+39.44 LT - STA 830CL+12.62 LT
STA 833CL+43.85 RT - STA 876CL+27.67 RT	STA 833CL+44.91 LT - STA 876CL+13.64 LT
STA 880CL+07.12 RT - STA 936CL+53.65 RT	STA 879CL+93.19 LT - STA 937CL+41.89 LT

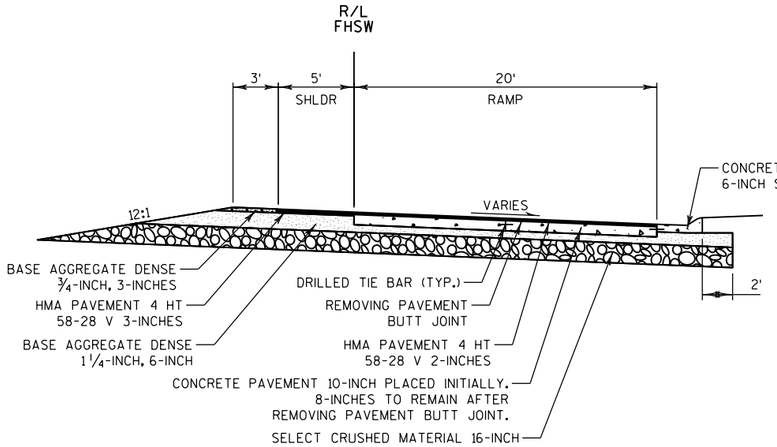
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TYPICAL PROPOSED SECTION

EB USH 12/18 TEST OVERLAY SECTION
STA 775CL+64.45 RT - 795CL+88.66 RT

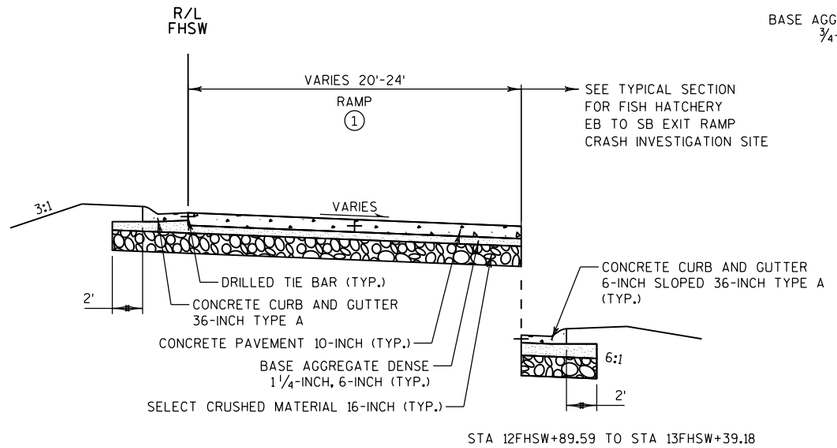
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS: PROPOSED	SHEET	E



TYPICAL PROPOSED SECTION

FISH HATCHERY EB TO SB EXIT RAMP

STA 11FHSW+38.85 TO STA 12FHSW+12.95

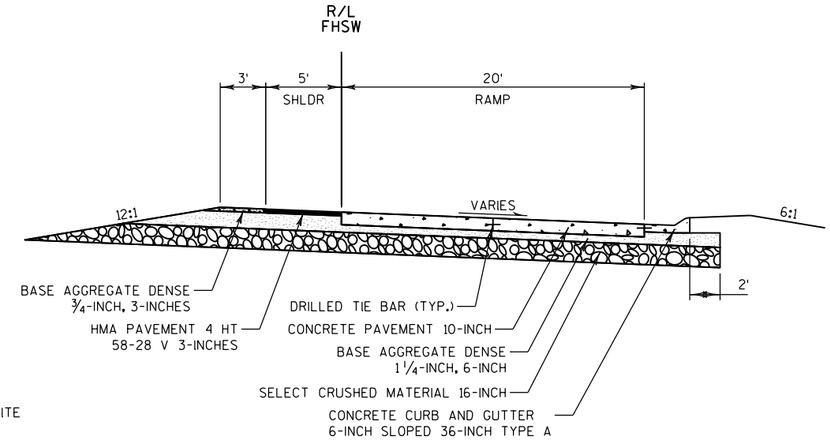


STA 12FHSW+89.59 TO STA 13FHSW+39.18

TYPICAL PROPOSED SECTION

FISH HATCHERY EB TO SB EXIT RAMP

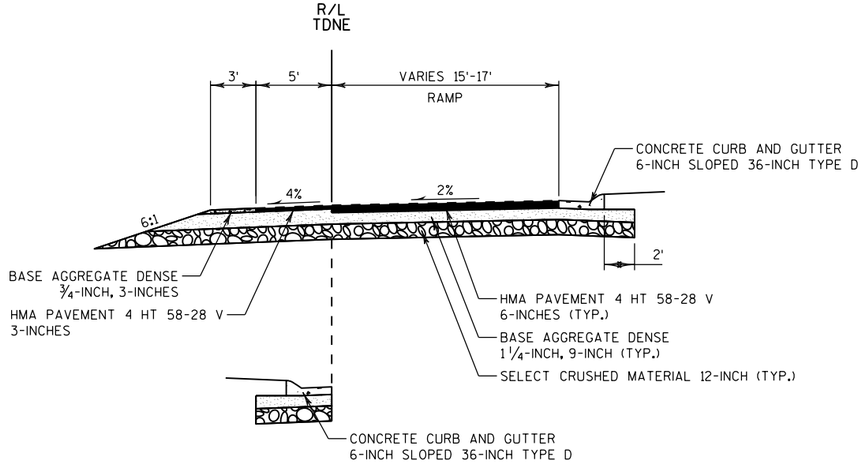
STA 12FHSW+89.59 TO STA 15FHSW+43.35



TYPICAL PROPOSED SECTION

FISH HATCHERY EB TO SB EXIT RAMP

STA 12FHSW+12.95 TO STA 12FHSW+89.59

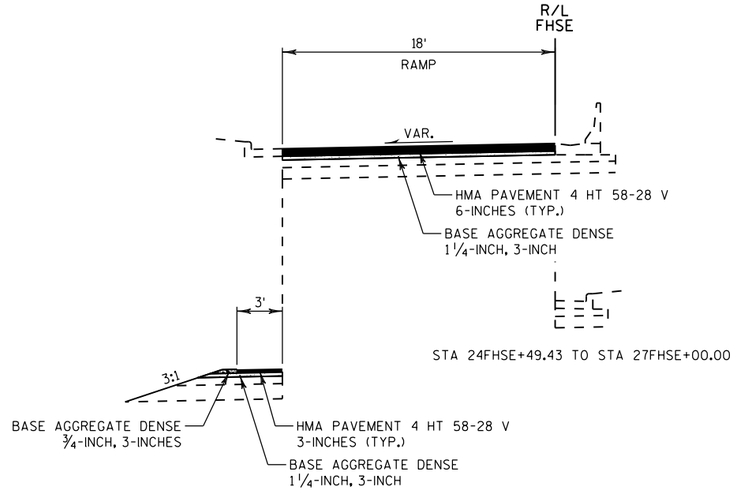


STA 479TDNE+62.47 TO STA 483TDNE+84.06

TYPICAL PROPOSED SECTION

TODD DRIVE WB EXIT RAMP

STA 479TDNE+62.47 TO STA 487TDNE+40.00



STA 24FHSE+49.43 TO STA 27FHSE+00.00

STA 25FHSE+59.78 TO STA 27FHSE+00.00

TYPICAL PROPOSED SECTION

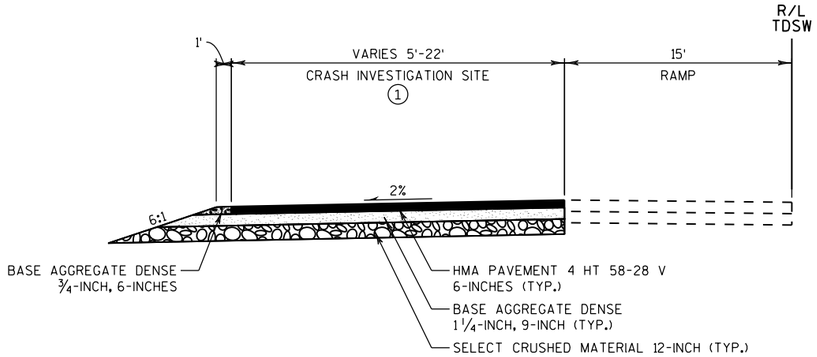
FISH HATCHERY EB ENTRANCE RAMP

STA 20FHSE+51.63 TO STA 27FHSE+00.00

(1) VARIES 20' - STA 12FHSW+89.59
TO 24' STA 14FHSW+40.00

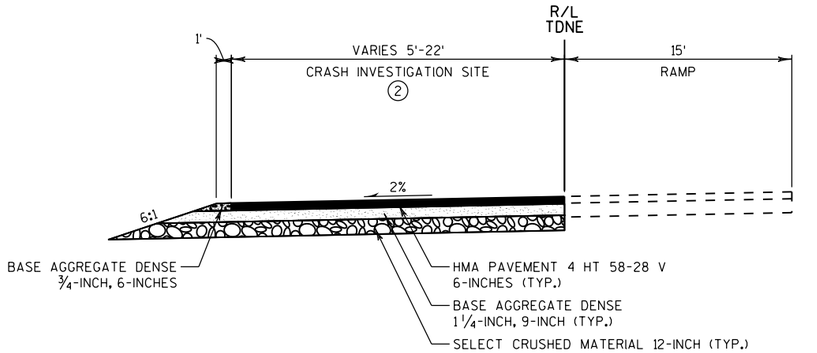
24' - STA 14FHSW+40.00
TO STA 15FHSW+43.35

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS: PROPOSED	SHEET	E



TYPICAL PROPOSED SECTION

TODD DRIVE EB EXIT RAMP CRASH INVESTIGATION SITE
STA 18TDSW+03.00 TO STA 20TDSW+67.00



TYPICAL PROPOSED SECTION

TODD DRIVE WB EXIT RAMP CRASH INVESTIGATION SITE
STA 486TDNE+80.00 TO STA 489TDNE+32.00

(1) VARIES 5' - STA 18TDSW+03.00
TO 22' STA 18TDSW+22.00

22' - STA 18TDSW+22.00
TO STA 19TDSW+72.00

VARIES 22' - STA 19TDSW+72.00
TO 5' STA 20TDSW+67.00

(2) VARIES 5' - STA 486TDNE+80.00
TO 22' STA 487TDNE+65.00

22' - STA 487TDNE+65.00
TO STA 489TDNE+15.00

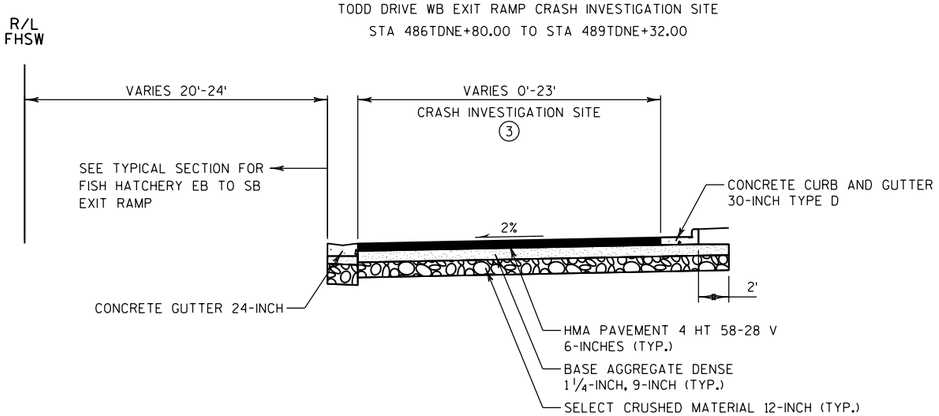
VARIES 22' - STA 489TDNE+15.00
TO 5' STA 489TDNE+32.00

(3) VARIES 2' - STA 13FHSW+44.33
TO 23' STA 13FHSW+66.00

VARIES 23' - STA 13FHSW+66.00
TO 20' STA 14FHSW+40.00

20' - STA 14FHSW+40.00
TO STA 15FHSW+16.00

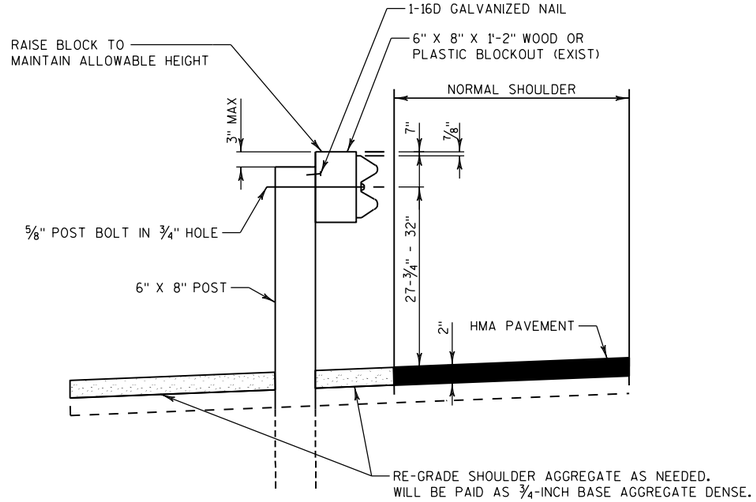
VARIES 20' - STA 15FHSW+16.00
TO 0' STA 16FHSW+15.92



TYPICAL PROPOSED SECTION

FISH HATCHERY EB TO SB EXIT RAMP CRASH INVESTIGATION SITE
STA 13FHSW+44.33 TO STA 16FHSW+15.92

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS: PROPOSED	SHEET	E

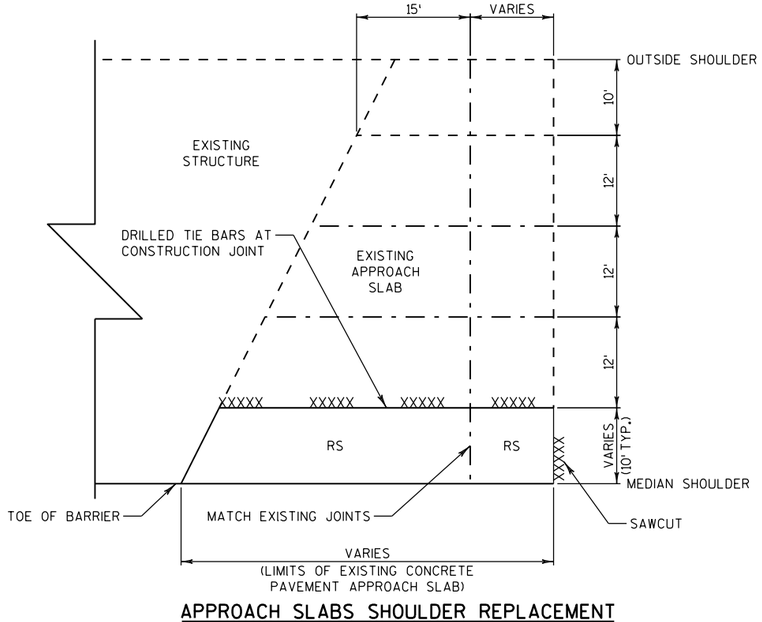


DETAIL OF ADJUSTING STEEL PLATE BEAMGUARD PREVIOUSLY ADJUSTED

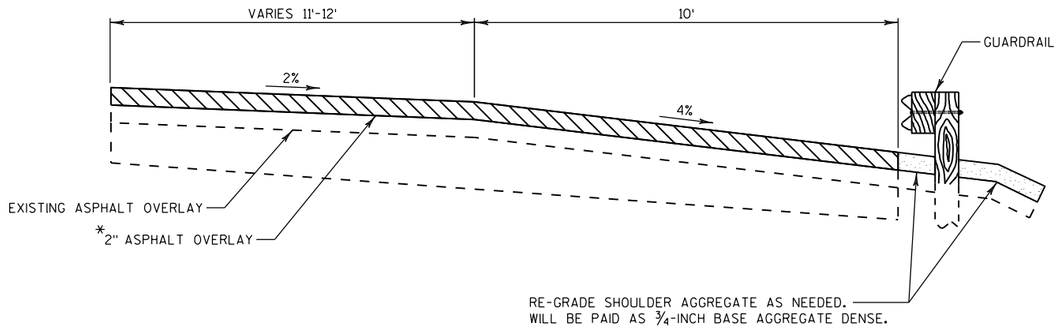
STA 549CL+20 TO STA 550CL+00, RT
STA 554CL+91 TO STA 561CL+05, RT
STA 562CL+94 TO STA 568CL+15, RT
STA 556CL+55 TO STA 561CL+05, LT
STA 563CL+46 TO STA 567CL+58, LT

NOTES:

1. RS = REINFORCED CONCRETE SLAB
2. SEE SDD 13B2-A CONCRETE BRIDGE APPROACH SLAB FOR ADDITION DETAILS NOT SHOWN HERE.

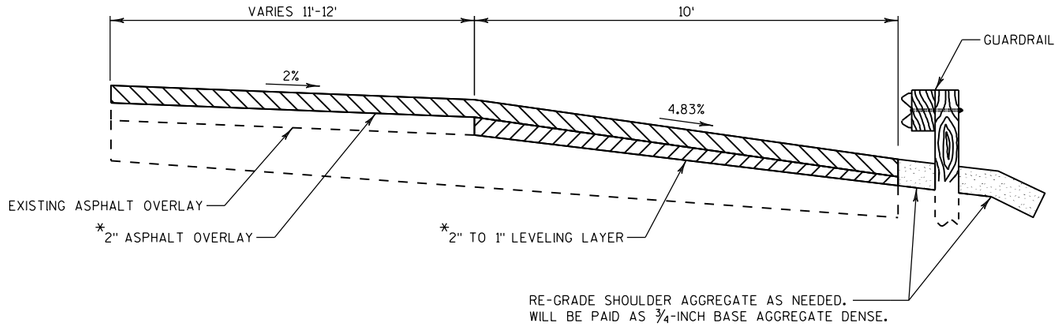


APPROACH SLABS SHOULDER REPLACEMENT



DETAIL OF PROPOSED SHOULDER PAVING AT GUARDRAIL

SEMINOLE HIGHWAY TO FISH HATCHERY ROAD



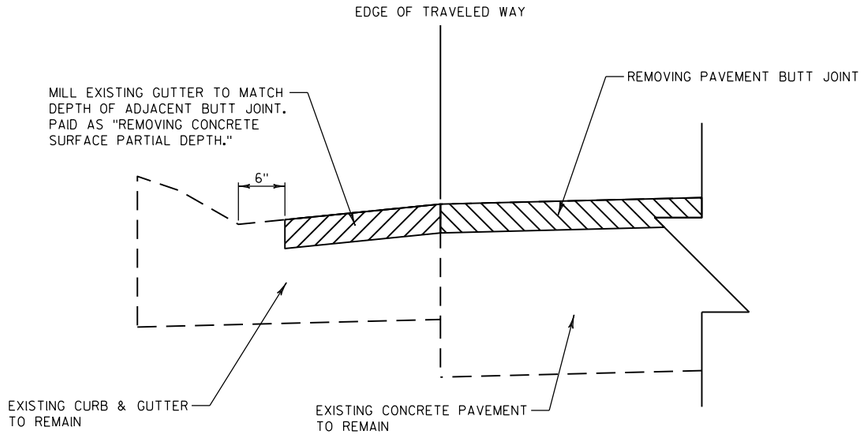
DETAIL OF PROPOSED SHOULDER PAVING AT GUARDRAIL

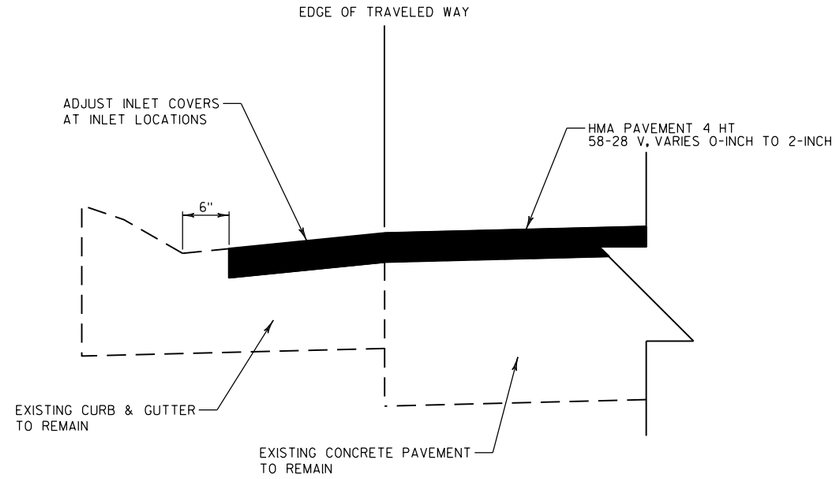
FISH HATCHERY ROAD TO I-39/90

*HMA PAVEMENT TO CONSIST OF:
2" HMA PAVEMENT 4 HT 58-28 V

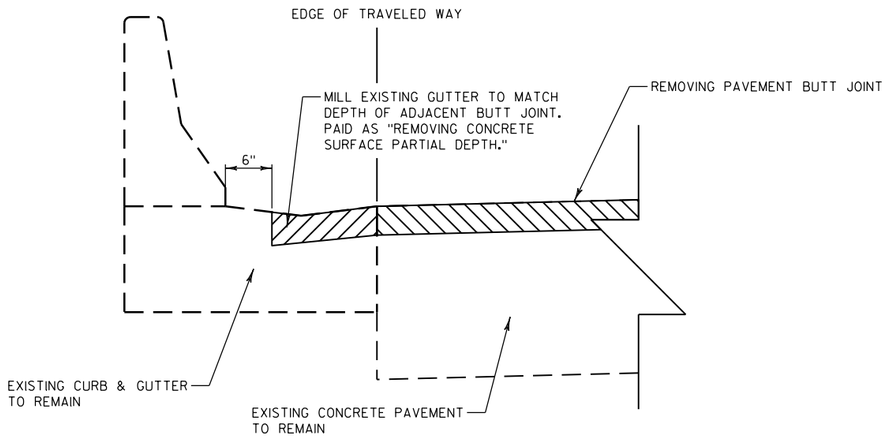
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

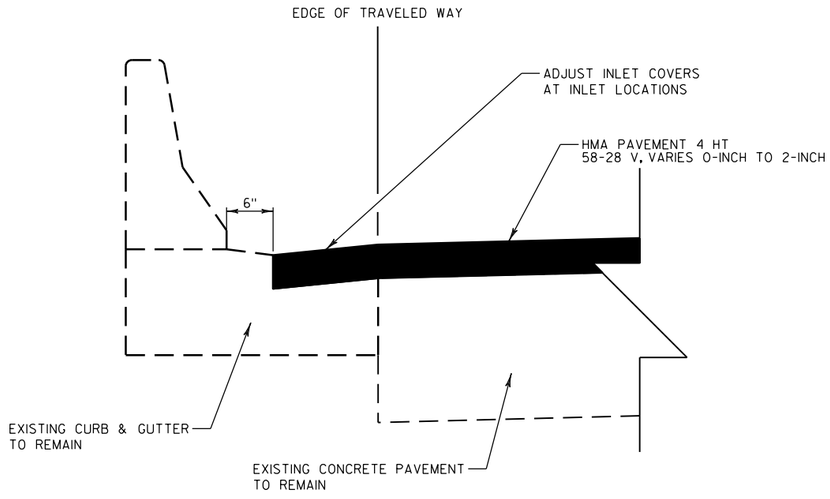
2





GUTTER MILLING AND ASPHALT OVERLAY AT CURB & GUTTER ADJACENT TO BUTT JOINT

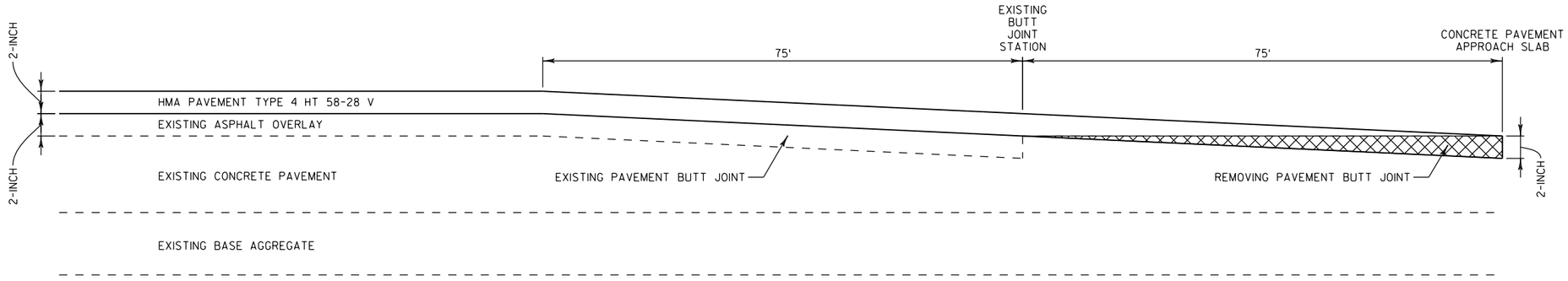




GUTTER MILLING AND ASPHALT OVERLAY AT CONCRETE BARRIER ADJACENT TO BUTT JOINT

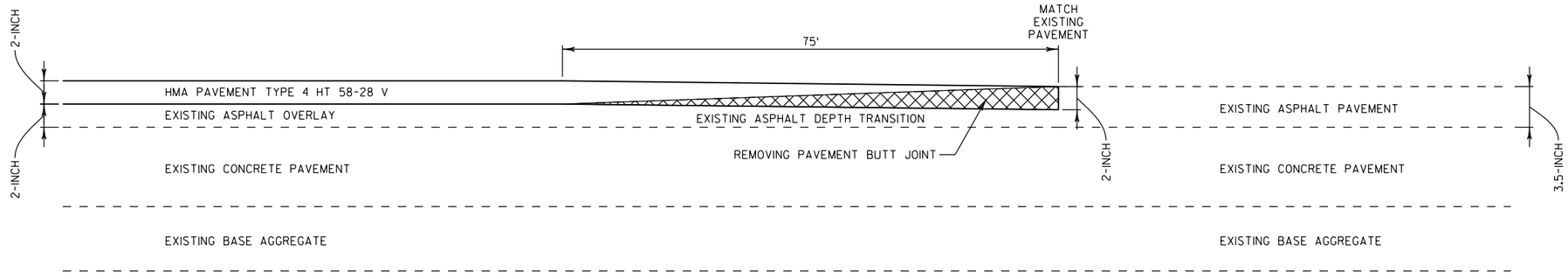
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



BUTT JOINT DETAIL (CONCRETE PAVEMENT MATCH) - EAST OF FISH HATCHERY ROAD

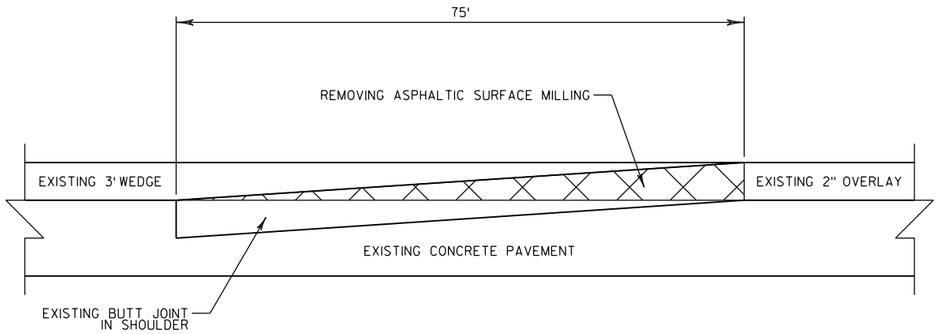
NO SCALE



BUTT JOINT AT ASPHALT DEPTH TRANSITIONS - WEST OF FISH HATCHERY ROAD

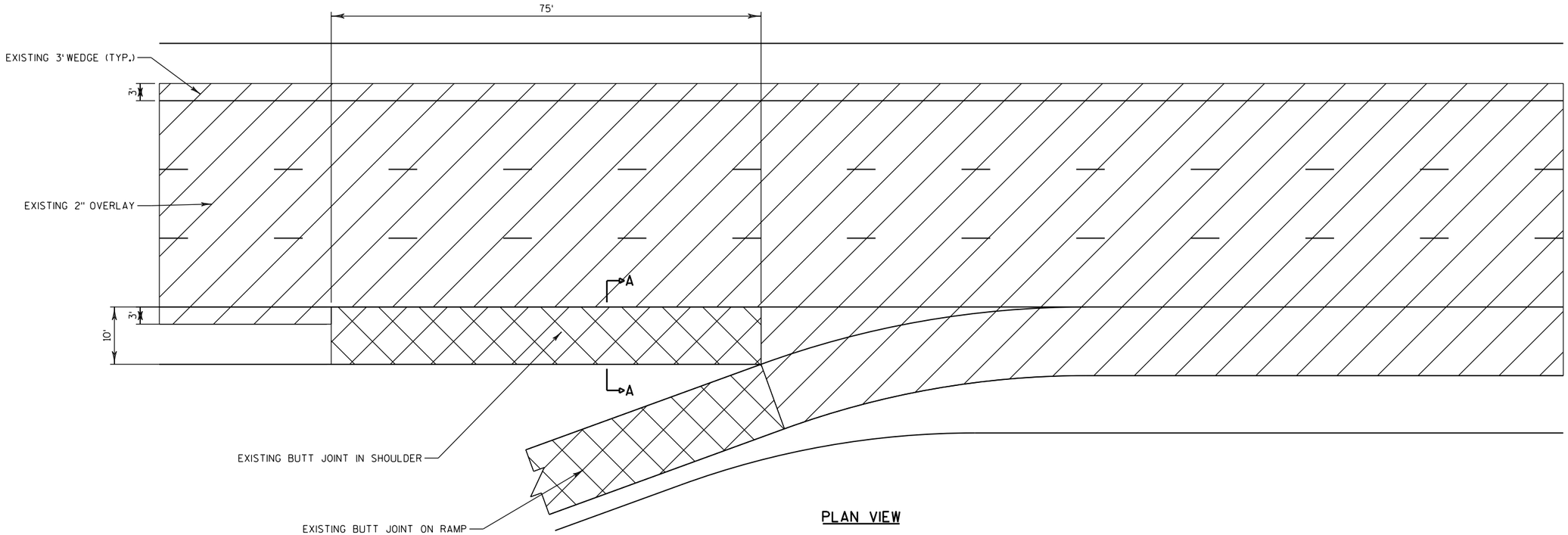
NO SCALE

2



ELEVATION VIEW

SECTION A-A

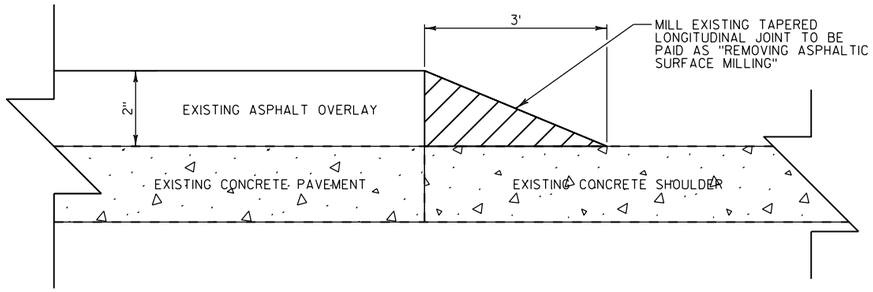


PLAN VIEW

REMOVING ASPHALTIC SURFACE MILLING
FOR EXISTING SHOULDER BUTT JOINTS

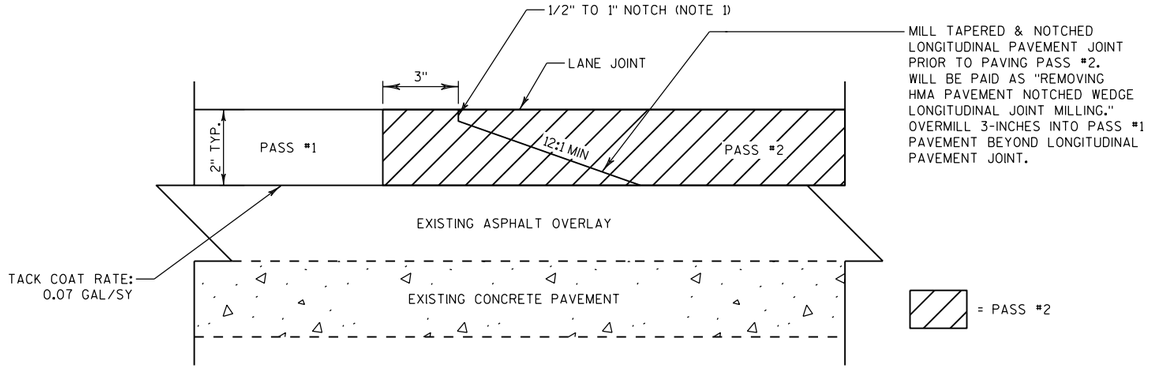
FISH HATCHERY ROAD TO I-39/90

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E



REMOVING HMA PAVEMENT NOTCHED WEDGE
LONGITUDINAL JOINT MILLING ON OUTSIDE SHOULDER

NO SCALE

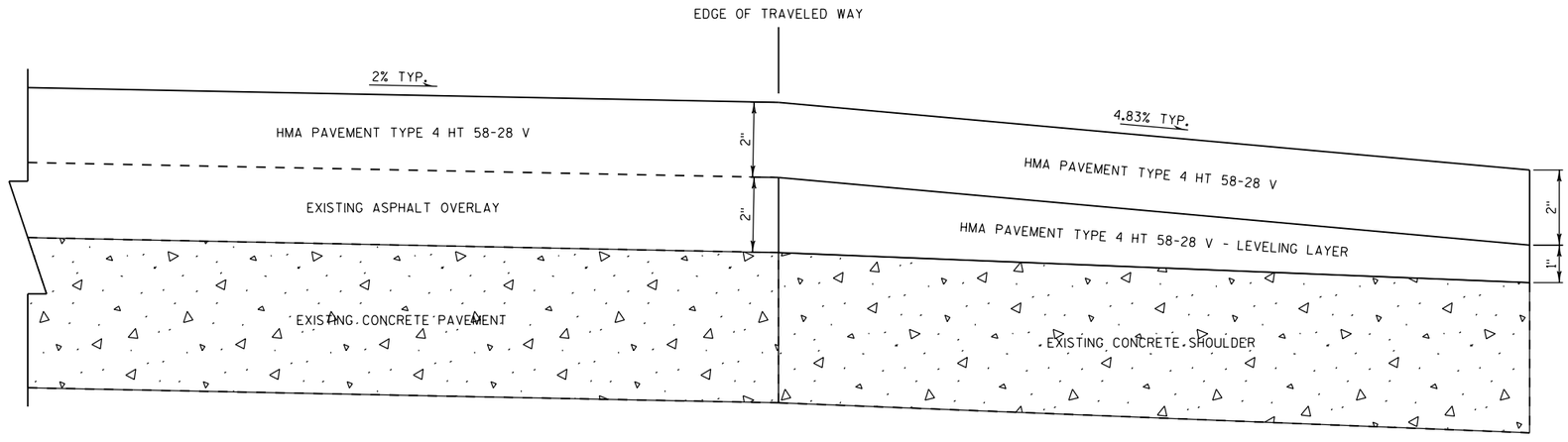


TYPICAL PAVEMENT CROSS SECTION OF
TAPERED & LONGITUDINAL JOINTS

NO SCALE

NOTES:

1. PER STANDARD SPEC 450.3.2.8(3)(4)
2. SEE SDD "TRAFFIC CONTROL FOR DROP-OFF SIGNING" FOR APPLICABLE SIGNAGE.

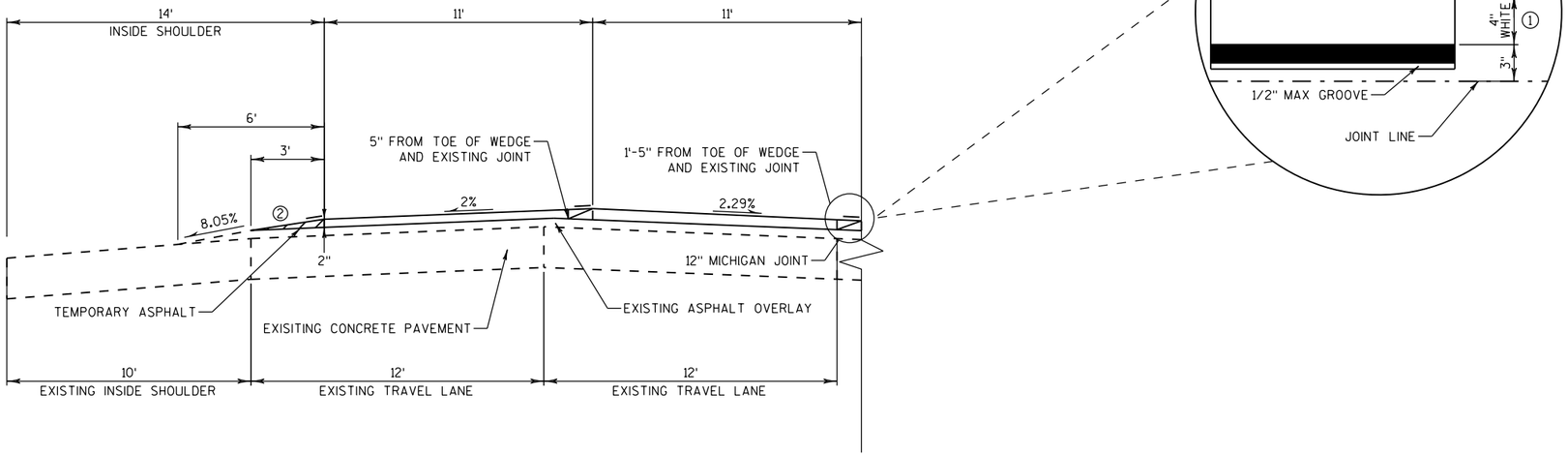


OUTSIDE SHOULDER ASHPALT DEPTH TRANSITIONS

FISH HATCHERY ROAD TO I-39/90
NO SCALE

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



PLACEMENT OF TEMORARY WEDGE

MEDIAN SHOULDER PAVING OPERATIONS

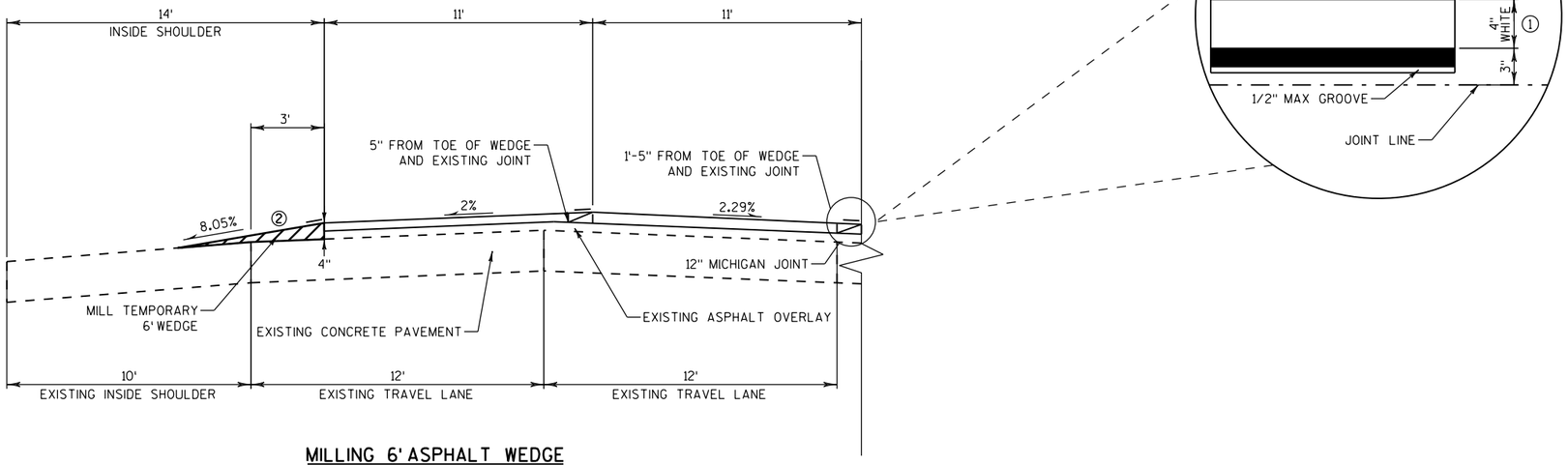
FISH HATCHERY TO I-39/90

GENERAL NOTES

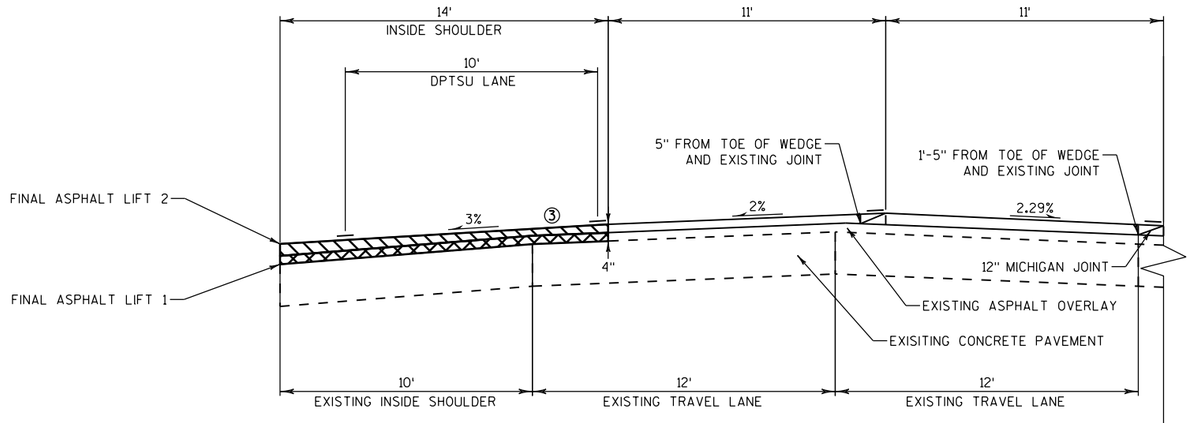
① CENTER OF GROOVED PAVEMENT MARKING TO BE 5" FROM PAVED JOINT

② PLACE TEMPORARY ASHPALT IN SINGLE LIFT. TEMPORARY ASPHALT LIFT TO BE 3' WIDE. CROSS-SLOPE OF WEDGE IS 8.05% TYPICAL.

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E



MILLING 6' ASPHALT WEDGE



PAVING PROPOSED MEDIAN SHOULDER

MEDIAN SHOULDER PAVING OPERATIONS

FISH HATCHERY TO I-39/90

GENERAL NOTES

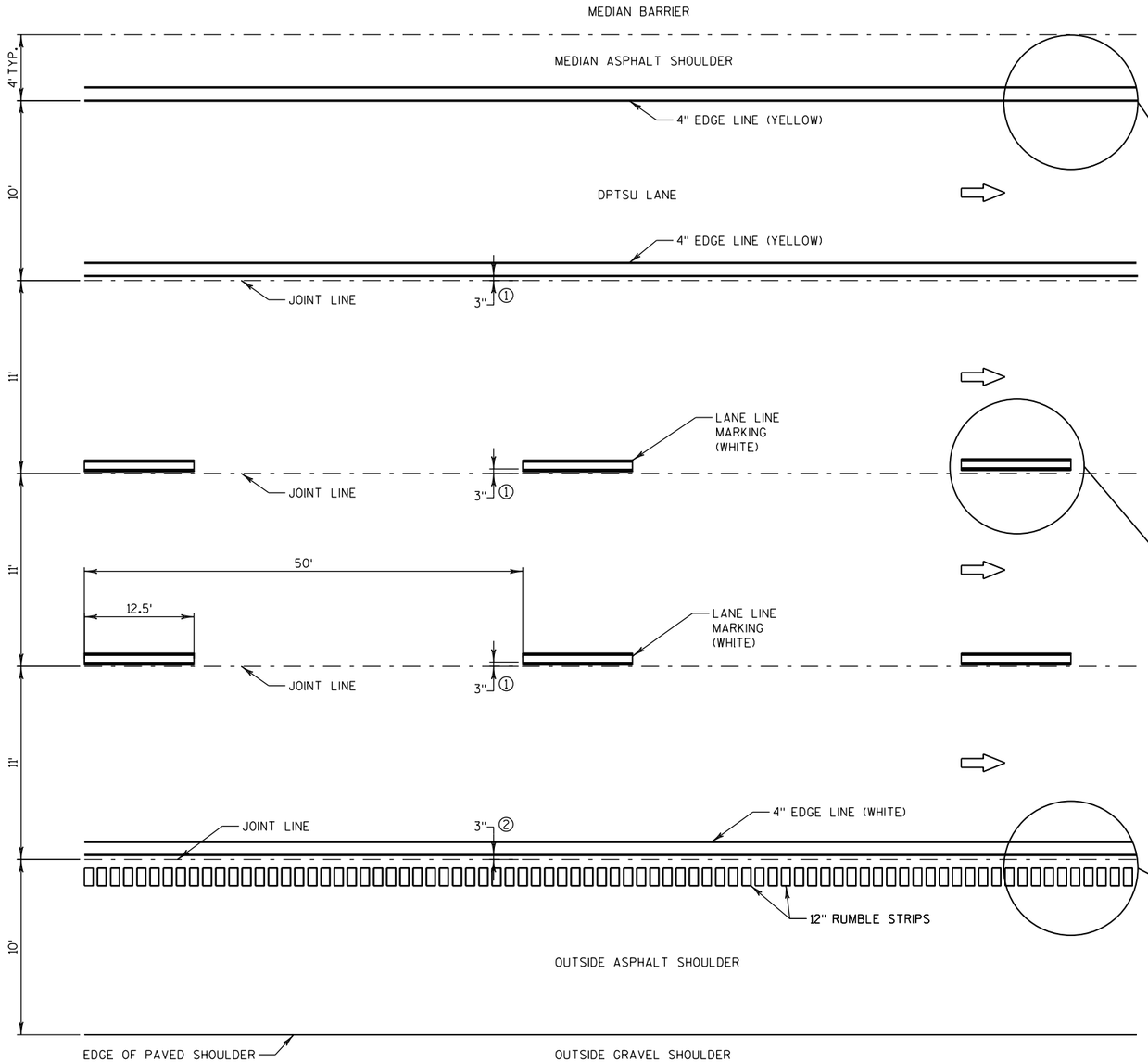
① CENTER OF GROOVED PAVEMENT MARKING TO BE 5" FROM PAVED JOINT

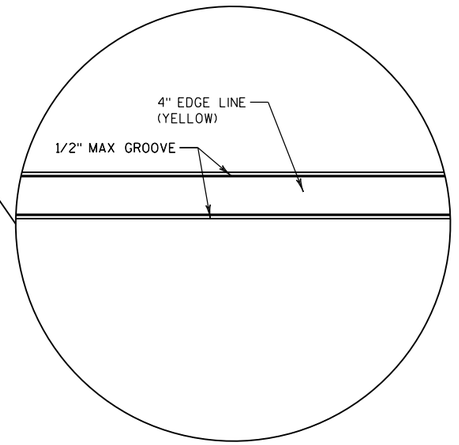
② MILLING OF EXISTING 3' WEDGE AND 3' INSIDE LANE TO OCCUR BEFORE PLACEMENT OF THE TWO NEW TEMPORARY ASPHALT LIFTS

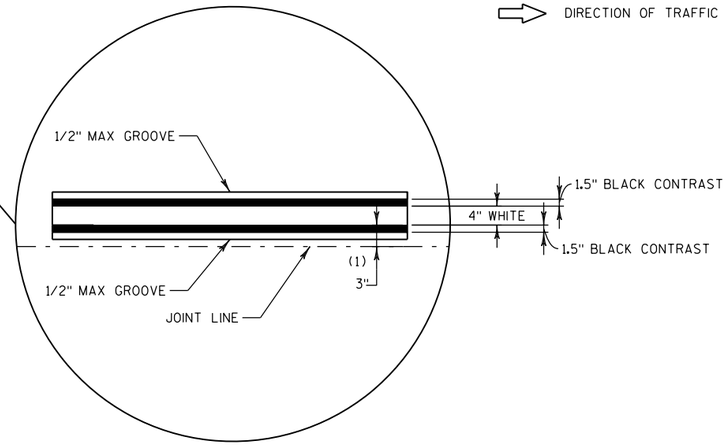
③ PLACE TWO LIFTS FINAL ASPHALT. FIRST LIFT IS 2" THICK. SECOND LIFT IS VARIABLE DEPTH TAPERED TO MEET PROPOSED CROSS SLOPE.

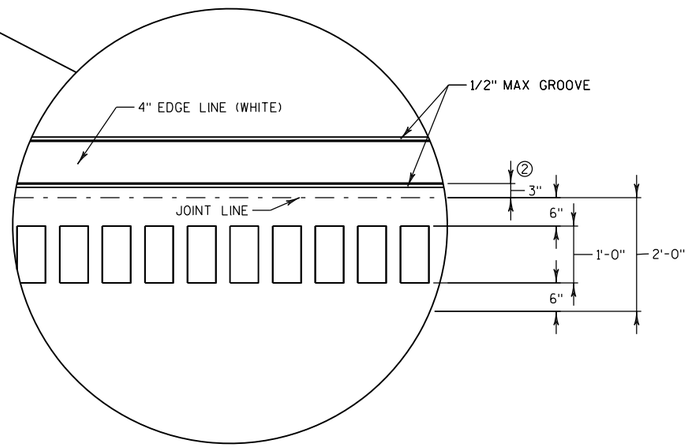
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2









GENERAL NOTES

① MEASURE FROM OUTSIDE EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATION

LEGEND

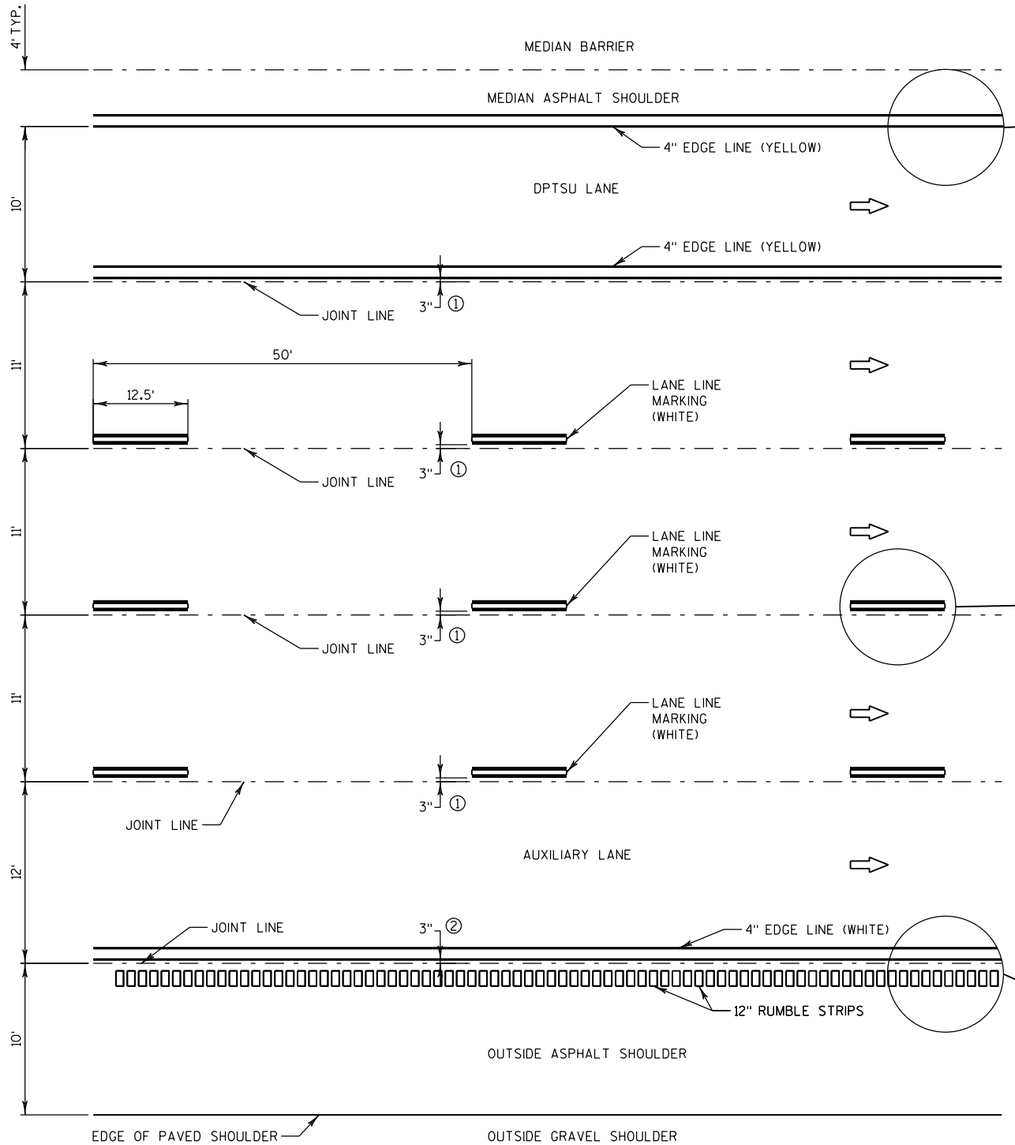
⇨ DIRECTION OF TRAFFIC

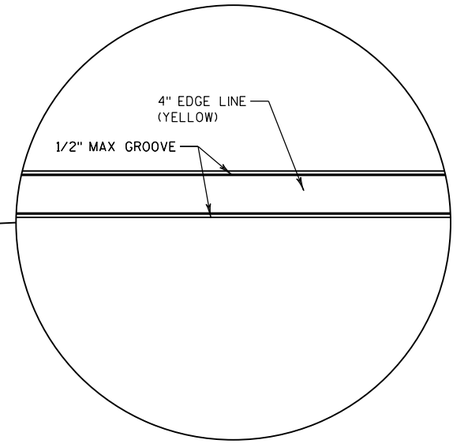
PROPOSED USH 12/18 PERMANENT PAVEMENT MARKING

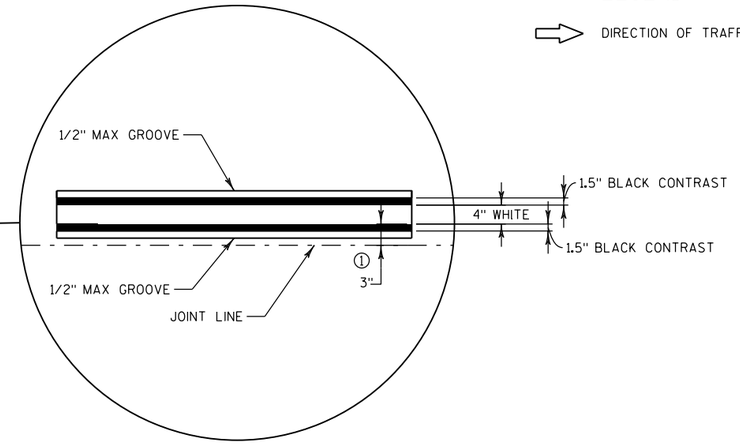
NO AUXILIARY LANE

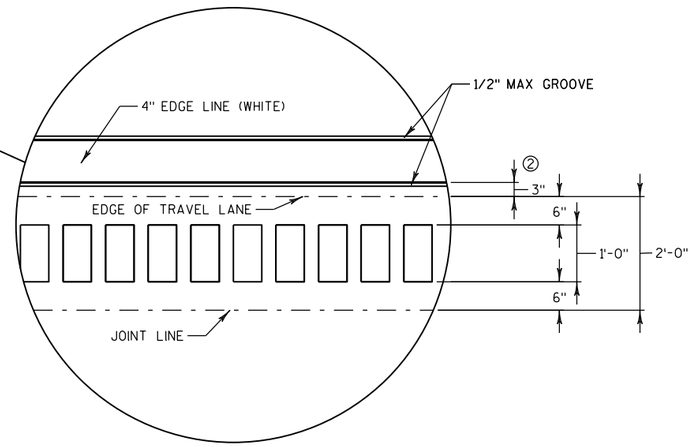
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2









GENERAL NOTES

① MEASURE FROM OUTSIDE EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATION

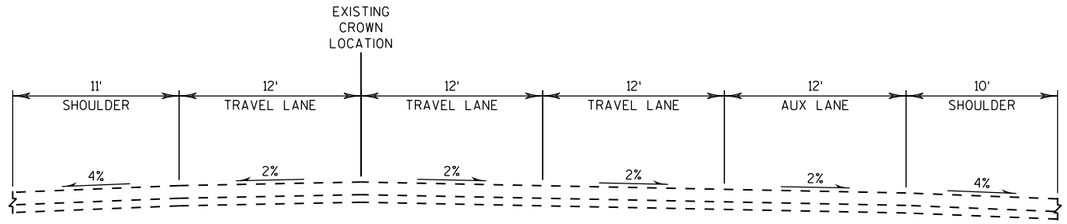
LEGEND

⇨ DIRECTION OF TRAFFIC

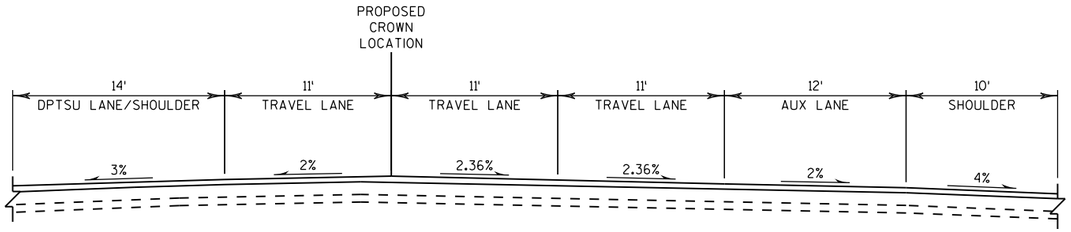
PROPOSED USH 12/18 PERMANENT PAVEMENT MARKING

WITH AUXILIARY LANE

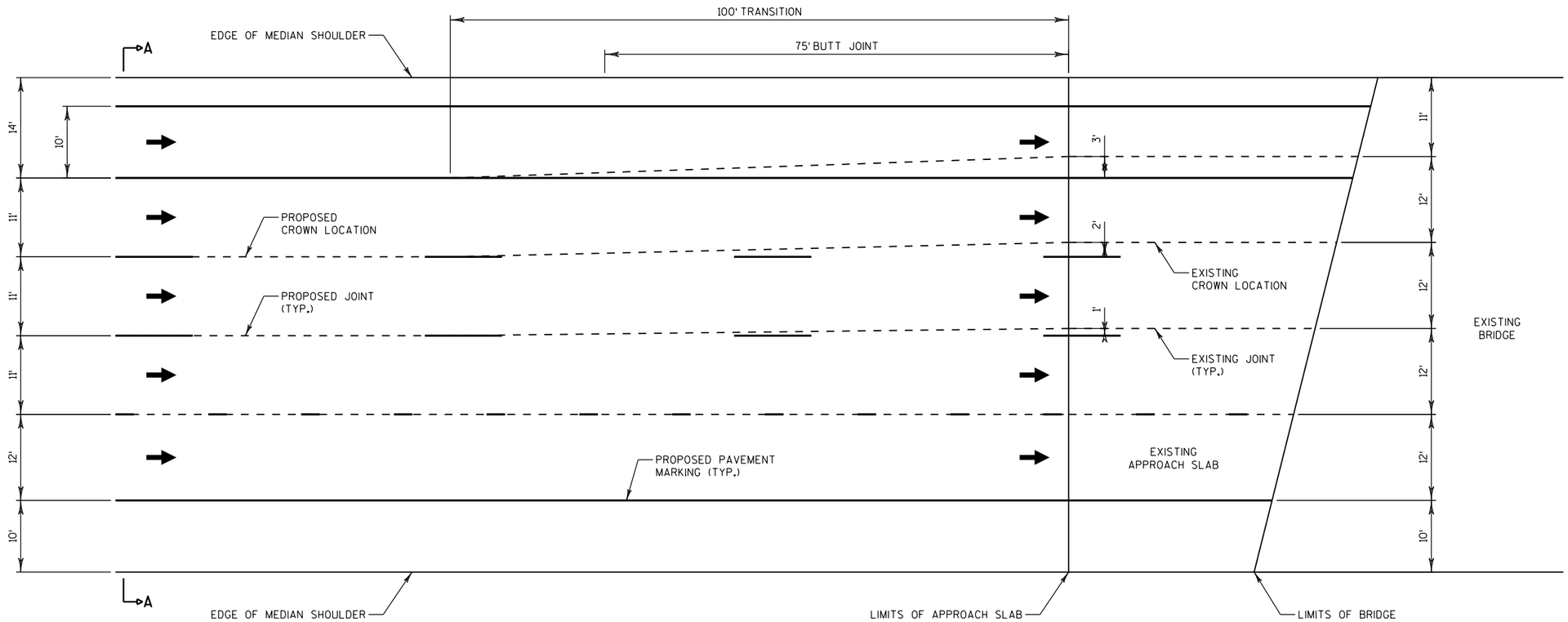
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E



EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION (A-A)

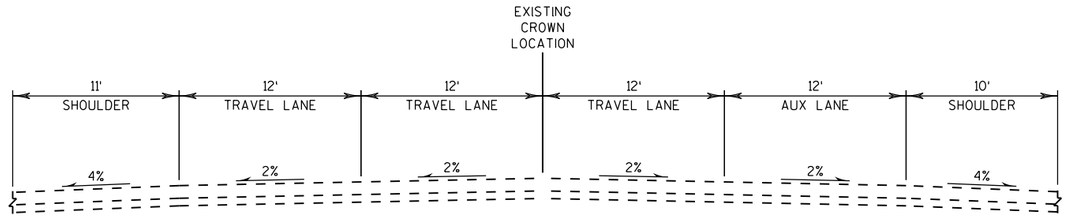


PLAN VIEW

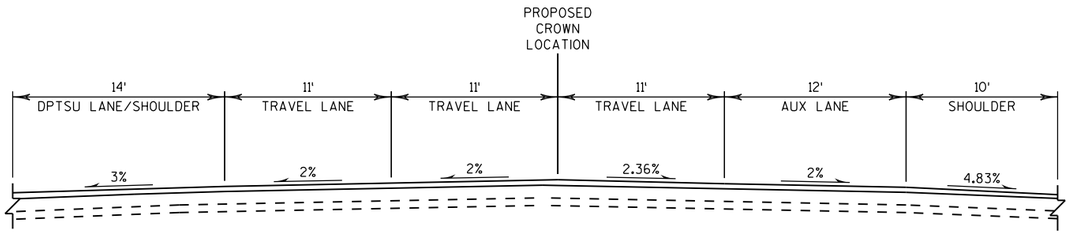
CROWN SHIFT DETAIL

SEMINOLE HIGHWAY TO FISH HATCHERY ROAD

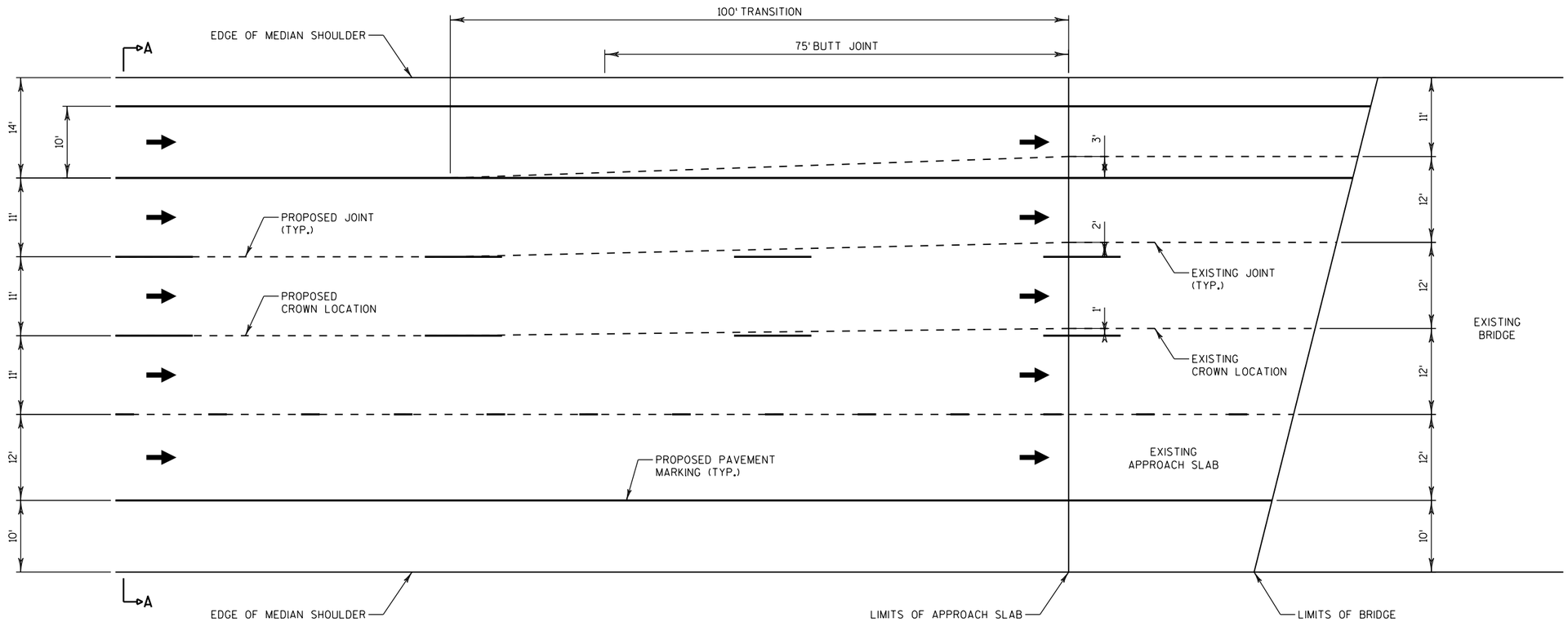
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E



EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION (A-A)



PLAN VIEW

CROWN SHIFT DETAIL

FISH HATCHERY ROAD TO I-39/90

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2

2

N

JOHN NOLEN DRIVE NW RAMP

JOHN NOLEN DRIVE SW RAMP

NOB HILL ROAD

WB USH 12/18

EB USH 12/18

R/L USH 12/18

PROPOSED CROWN

EXISTING CROWN

CROWN TRANSITION

BEGIN NORMAL CROWN STA. 703CL+89

STA. 704CL+49, 38.1' LT.

REMOVE ADVERSE CROWN STA. 705CL+49, 36.0' LT.

END 6' LANE SHIFT STA. 703CL+45

BEGIN 6' LANE SHIFT STA. 706CL+35

696CL 698CL 700CL 702CL 704CL 706CL 708CL 710CL

SIGN MH INL

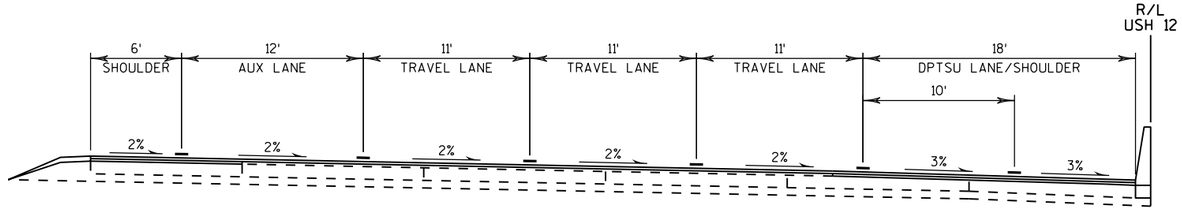
CROWN/LANE SHIFT DETAIL

WB USH 12/18 AT JOHN NOLEN DRIVE

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

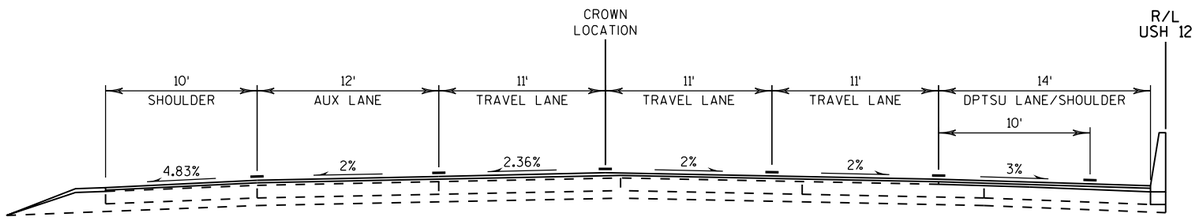
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2



PROPOSED TYPICAL SECTION

STA. 705CL+49.00 LT.



PROPOSED TYPICAL SECTION

STA. 703CL+45.00 LT.

CROWN/LANE SHIFT DETAIL

WB USH 12/18 AT JOHN NOLEN DRIVE

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2

2

N

JOHN NOLEN DRIVE NE RAMP

REMOVE ADVERSE CROWN
STA. 714CL+86

PROPOSED CROWN

END NORMAL CROWN
STA. 716CL+46

STA. 717CL+05, 37.5' LT.

CROWN TRANSITION

STA. 718CL+05, 36.0' LT.

R/L USH 12/18

WB USH 12/18

EB USH 12/18

712CL

714CL

716CL

718CL

720CL

722CL

724CL

726CL

EXISTING CROWN

END 6' LANE SHIFT
STA. 717CL+50

BEGIN 6' LANE SHIFT
STA. 721CL+35

JOHN NOLEN DRIVE SW RAMP

JOHN NOLEN DRIVE SE RAMP

WISCONSIN & SOUTHERN RAILROAD

NOB HILL ROAD

SIGN

INL

CROWN/LANE SHIFT DETAIL

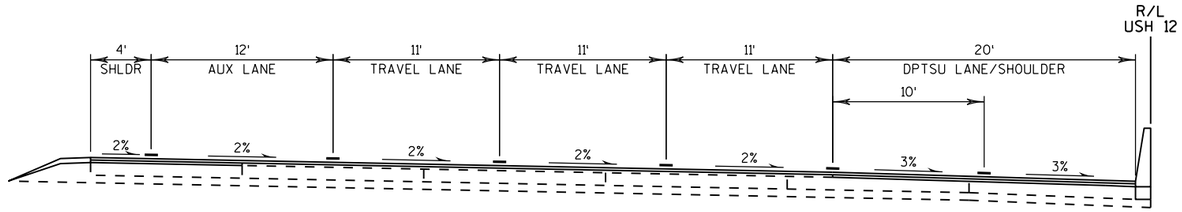
WB USH 12/18 AT JOHN NOLEN DRIVE

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\021001_cd.dgn

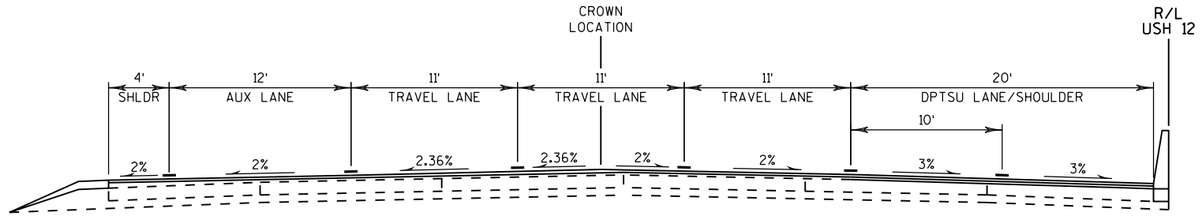
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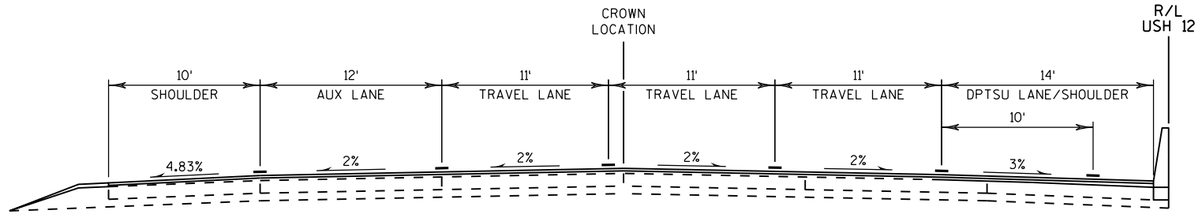
PROPOSED TYPICAL SECTION

STA. 714CL+86.00 LT.



PROPOSED TYPICAL SECTION

STA. 717CL+05.00 LT.



PROPOSED TYPICAL SECTION

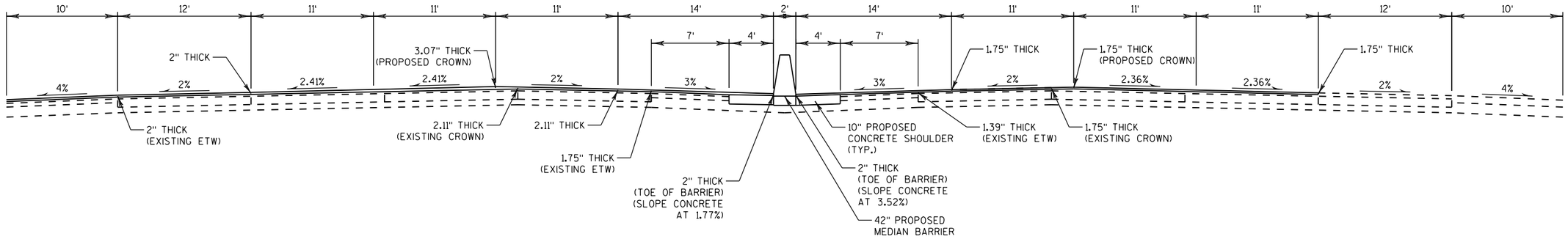
STA. 721CL+36.50 LT.

CROWN/LANE SHIFT DETAIL

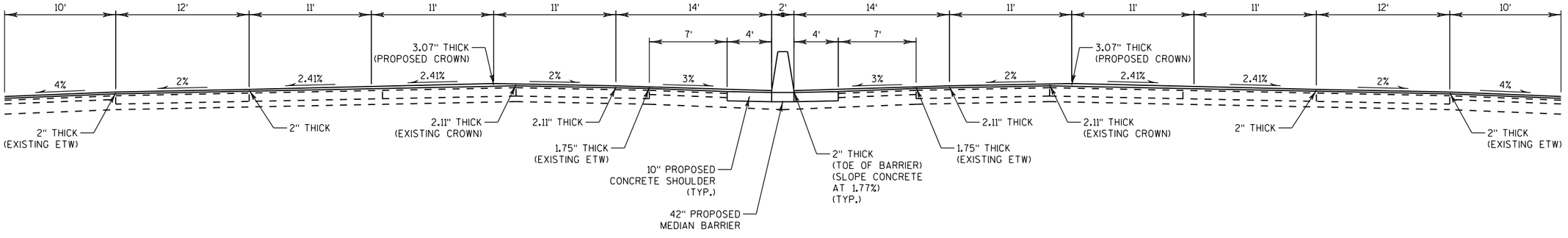
WB USH 12/18 AT JOHN NOLEN DRIVE

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2

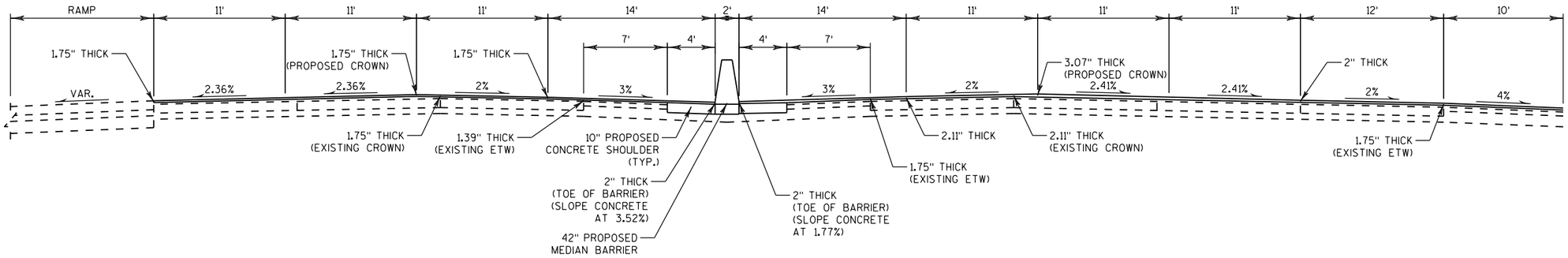


ASPHALT OVERLAY - SEMINOLE TO TODD DRIVE EB EXIT RAMP (SHIFT CROWN 2')

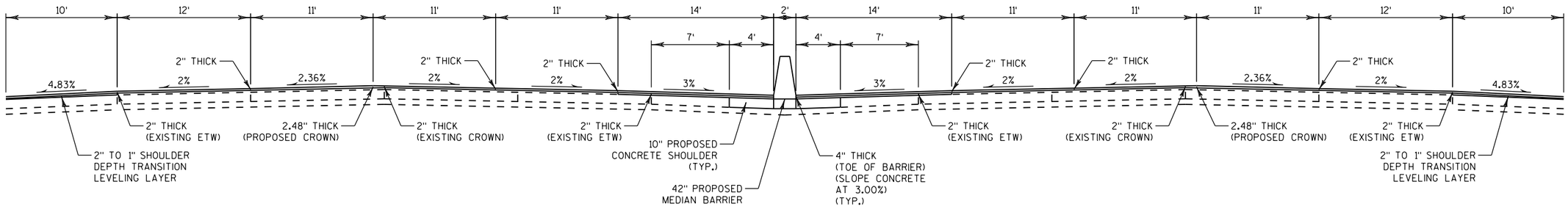


ASPHALT OVERLAY - TODD DRIVE EB EXIT RAMP TO FISH HATCHERY WB ENTRANCE RAMP (SHIFT CROWN 2')

2



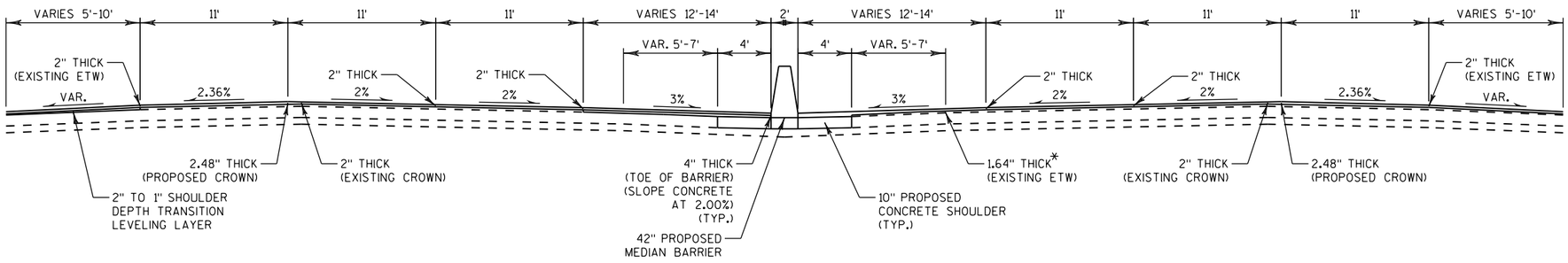
ASPHALT OVERLAY - FISH HATCHERY WB ENTRANCE RAMP (SHIFT CROWN 2')



ASPHALT OVERLAY - FISH HATCHERY TO I-39/90 (SHIFT CROWN 1')

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



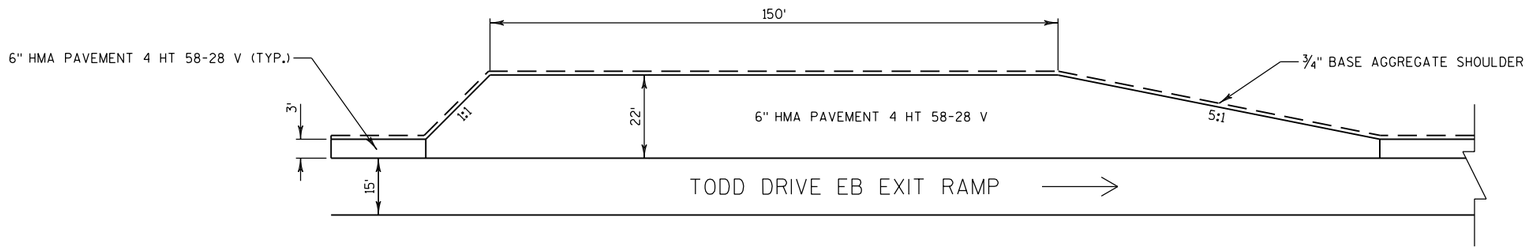
ASPHALT OVERLAY - EB USH 12/18 TEST OVERLAY SEGMENT (SHIFT CROWN 1')

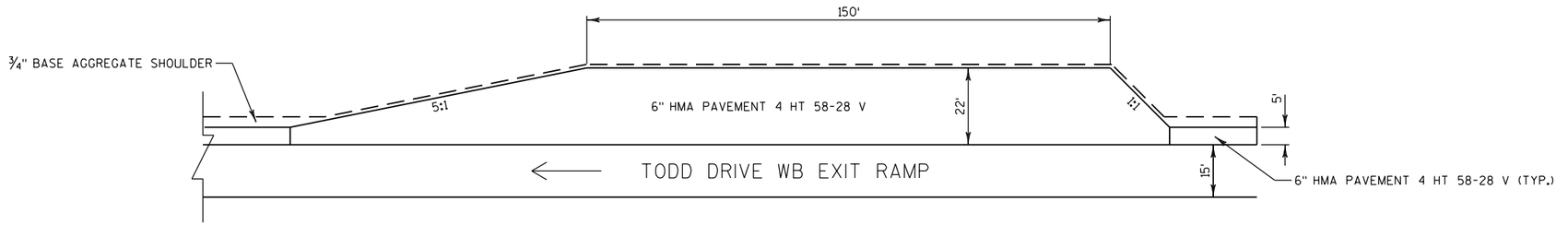
STA 775CL+64.45 RT - 795CL+88.66 RT

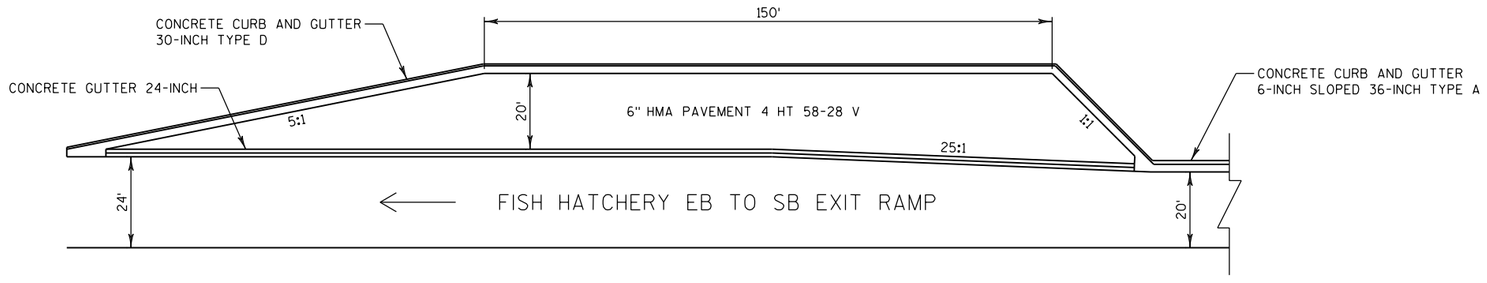
*IN ORDER TO ACHIEVE A 1.75" THICK BINDER LAYER AT THE EXISTING EDGE OF TRAVELED WAY, IT WOULD REQUIRE CHANGING THE CROSS SLOPES IN THE INSIDE AND MIDDLE GENERAL PURPOSE LANES TO 1.86%.

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2







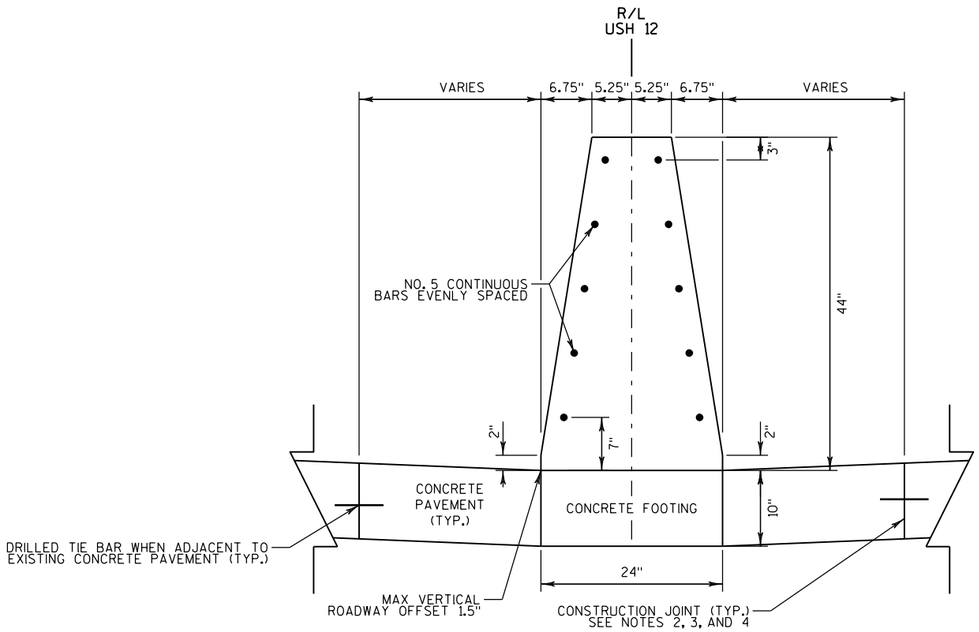
CRASH INVESTIGATION SITES

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2

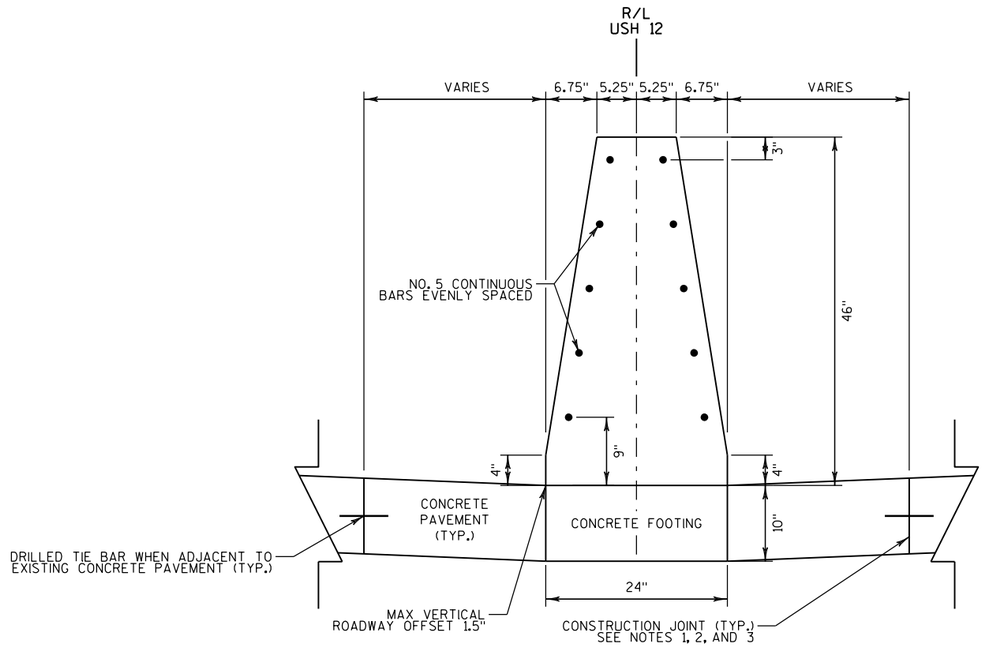
NOTES:

1. CONCRETE PAD UNDER CBSS MAY BE PLACED INTEGRAL WITH BARRIER, PLACED SEPARATELY OR PLACED WITH CONCRETE SHOULDER AND SAWED FULL DEPTH. SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. SAWCUT SHALL BE 4" FROM TOE OF BARRIER WALL. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.
2. SEE SDD 13C1 FOR DETAILS TYING BARRIER FOOTING TO ADJACENT CONCRETE.
3. EXCEPT IN ANCHORS, VERTICAL REINFORCING STIRRUP NOT REQUIRED FOR ROADWAY OFFSETS LESS THAN 1'- 0".
4. 2" AND 4" LIP AT BASE OF BARRIER IS TO ACCOUNT FOR ASPHALT OVERLAY DEPTH.
5. SEE TABLES ON PLAN DETAIL SHEETS FOR SPECIFIC BARRIER LOCATIONS.
6. SEE S.D.D. "CONCRETE BARRIER SINGLE SLOPE (CBSS)" FOR ADDITIONAL DETAILS.



CONCRETE BARRIER TYPE S42 SPECIAL WITH 2" LIP AT BASE

SEMINOLE HIGHWAY TO FISH HATCHERY ROAD

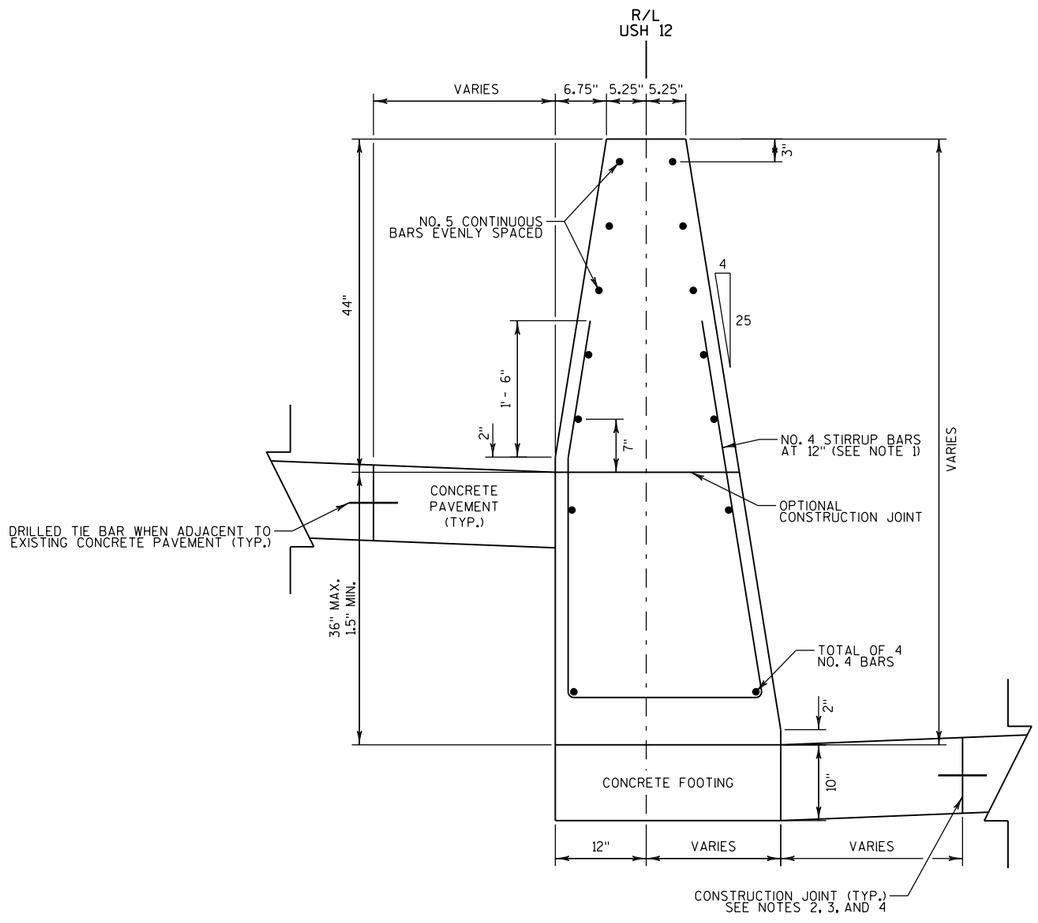


CONCRETE BARRIER TYPE S42 SPECIAL WITH 4" LIP AT BASE

FISH HATCHERY ROAD TO I-39/90

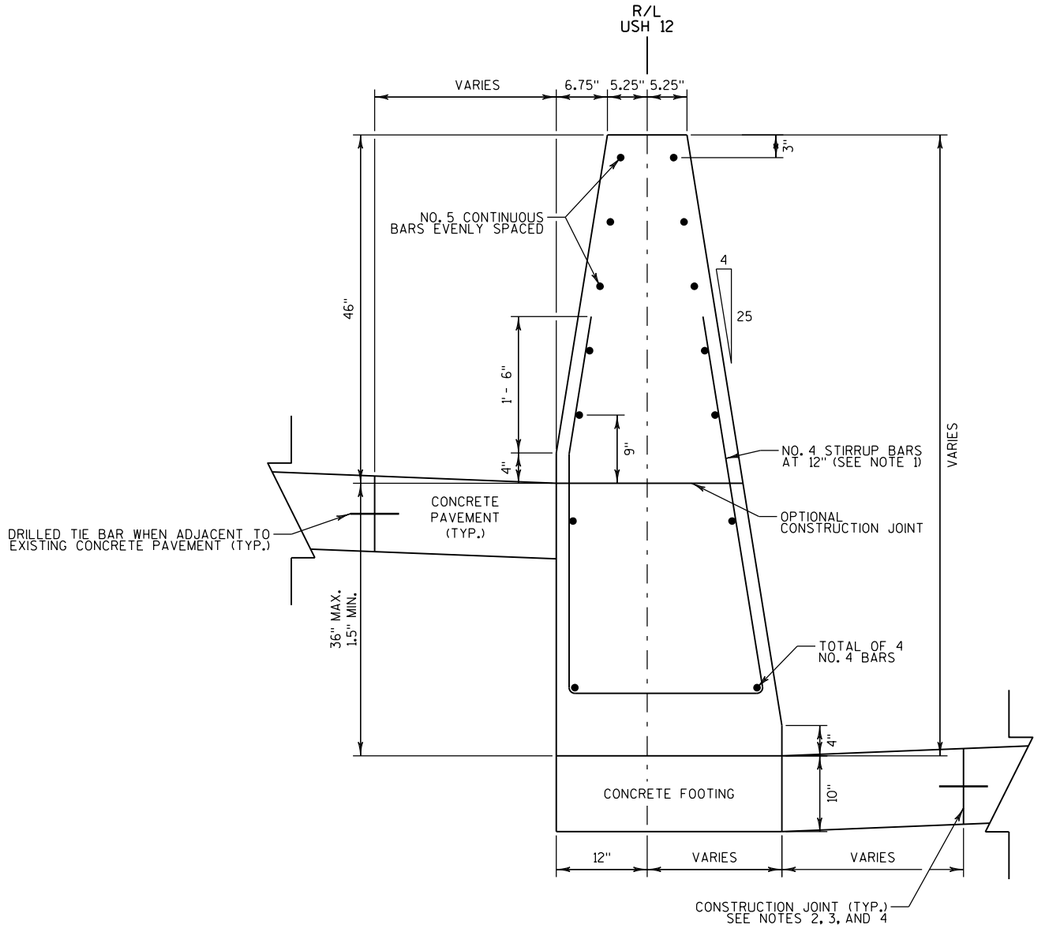
NOTES:

1. CONCRETE PAD UNDER CBSS MAY BE PLACED INTEGRAL WITH BARRIER, PLACED SEPARATELY OR PLACED WITH CONCRETE SHOULDER AND SAWED FULL DEPTH. SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. SAWCUT SHALL BE 4" FROM TOE OF BARRIER WALL. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.
2. SEE SDD 13C1 FOR DETAILS TYING BARRIER FOOTING TO ADJACENT CONCRETE.
3. EXCEPT IN ANCHORS, VERTICAL REINFORCING STIRRUP NOT REQUIRED FOR ROADWAY OFFSETS LESS THAN 1' - 0".
4. 2" AND 4" LIP AT BASE OF BARRIER IS TO ACCOUNT FOR ASPHALT OVERLAY DEPTH.
5. SEE TABLES ON PLAN DETAIL SHEETS FOR SPECIFIC BARRIER LOCATIONS.
6. SEE S.D.D. "CONCRETE BARRIER SINGLE SLOPE (CBSS)" FOR ADDITIONAL DETAILS.



CONCRETE BARRIER TYPE S42A SPECIAL WITH 2" LIP AT BASE

SEMINOLE HIGHWAY TO FISH HATCHERY ROAD
(WB SHOWN HIGHER. MIRROR IF EB IS HIGHER.)

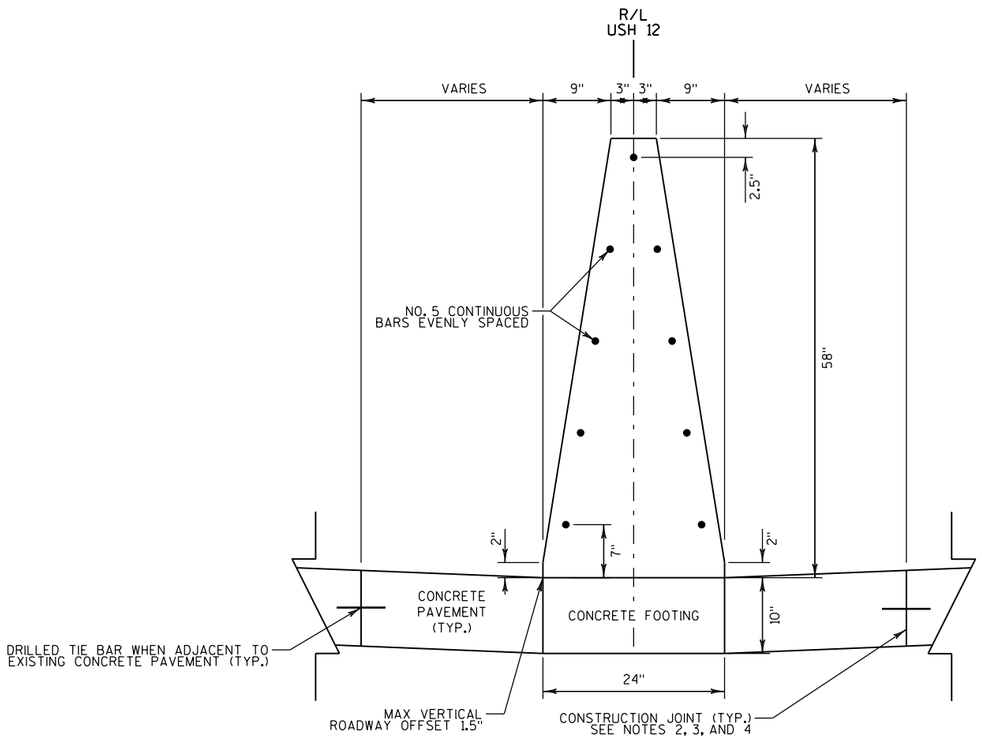


CONCRETE BARRIER TYPE S42A SPECIAL WITH 4" LIP AT BASE

FISH HATCHERY ROAD TO I-39/90
(WB SHOWN HIGHER. MIRROR IF EB IS HIGHER.)

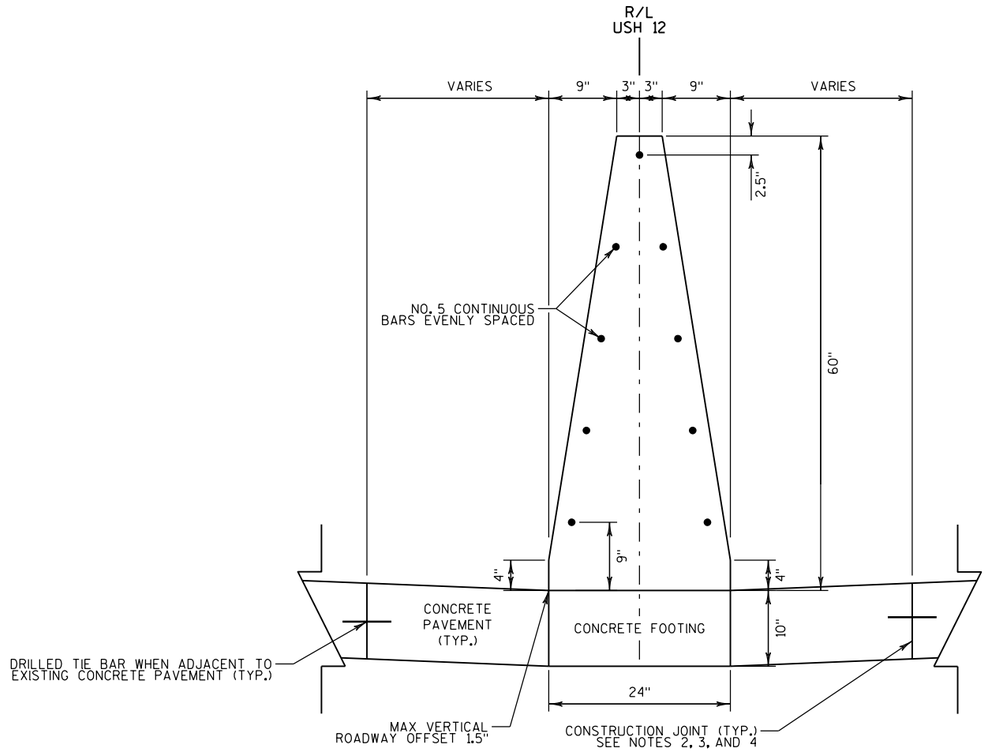
NOTES:

1. CONCRETE PAD UNDER CBSS MAY BE PLACED INTEGRAL WITH BARRIER, PLACED SEPARATELY OR PLACED WITH CONCRETE SHOULDER AND SAWED FULL DEPTH. SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. SAWCUT SHALL BE 4" FROM TOE OF BARRIER WALL. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.
2. SEE SDD 13C1 FOR DETAILS TYING BARRIER FOOTING TO ADJACENT CONCRETE.
3. EXCEPT IN ANCHORS, VERTICAL REINFORCING STIRRUP NOT REQUIRED FOR ROADWAY OFFSETS LESS THAN 1'- 0".
4. 2" AND 4" LIP AT BASE OF BARRIER IS TO ACCOUNT FOR ASPHALT OVERLAY DEPTH.
5. SEE TABLES ON PLAN DETAIL SHEETS FOR SPECIFIC BARRIER LOCATIONS.
6. SEE S.D.D. "CONCRETE BARRIER SINGLE SLOPE (CBSS)" FOR ADDITIONAL DETAILS.



CONCRETE BARRIER TYPE S56 SPECIAL WITH 2" LIP AT BASE

SEMINOLE HIGHWAY TO FISH HATCHERY ROAD

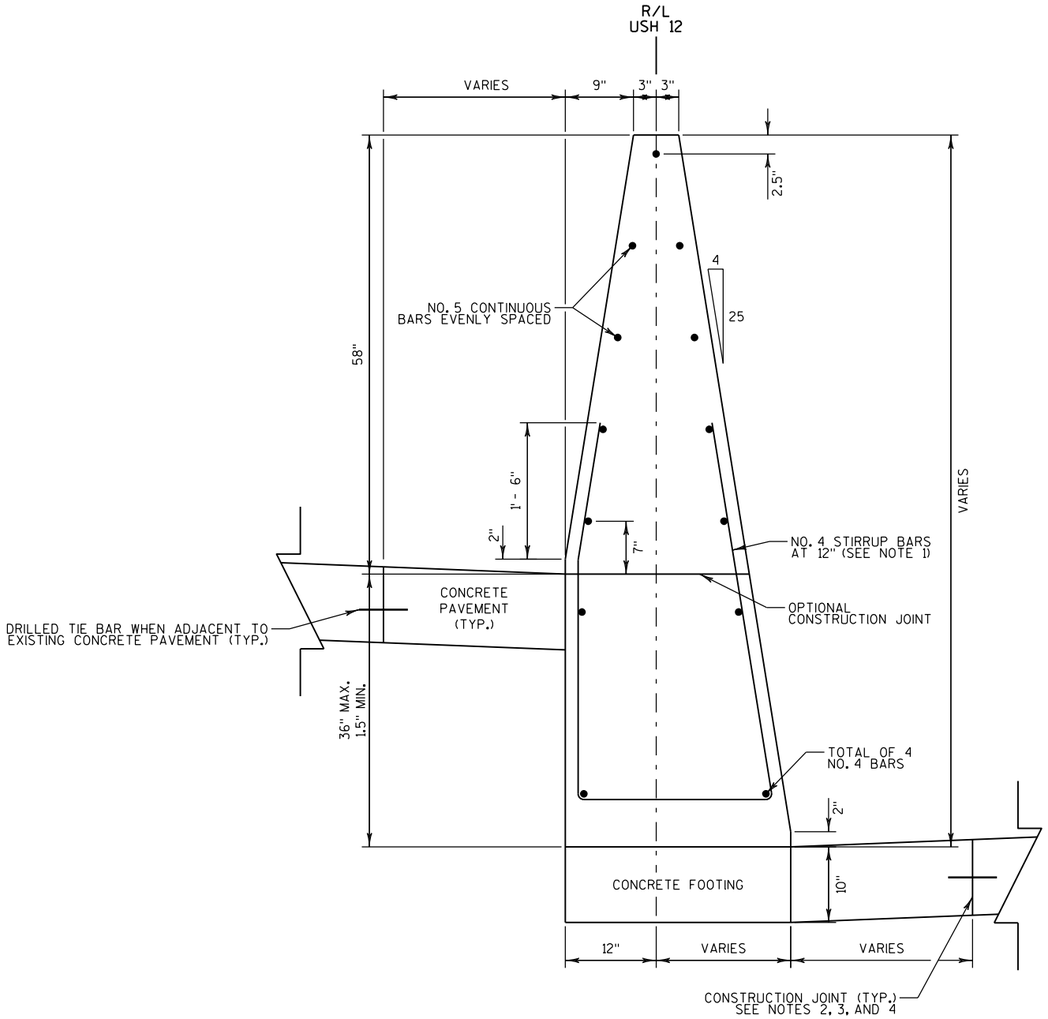


CONCRETE BARRIER TYPE S56 SPECIAL WITH 4" LIP AT BASE

FISH HATCHERY ROAD TO I-39/90

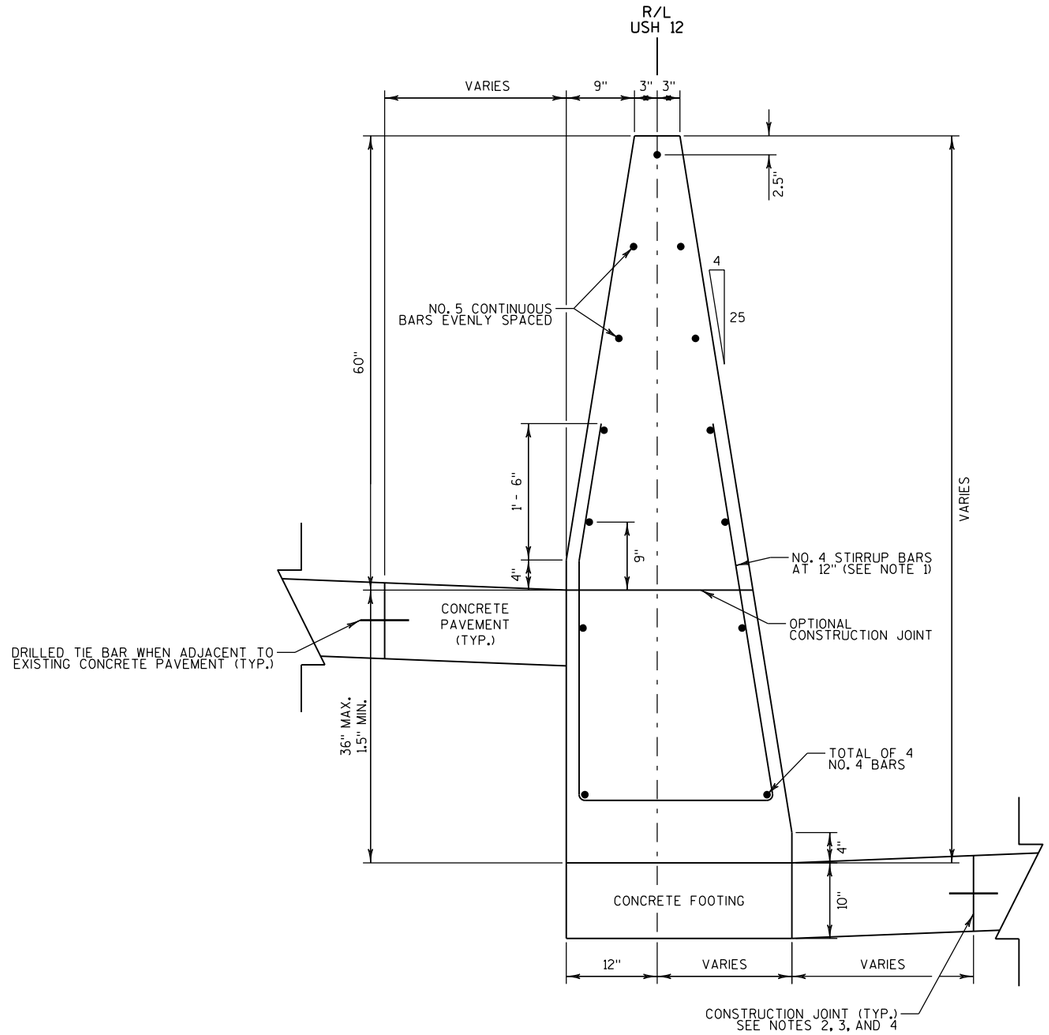
NOTES:

1. CONCRETE PAD UNDER CBSS MAY BE PLACED INTEGRAL WITH BARRIER, PLACED SEPARATELY OR PLACED WITH CONCRETE SHOULDER AND SAWED FULL DEPTH. SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. SAWCUT SHALL BE 4" FROM TOE OF BARRIER WALL. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.
2. SEE SDD 13C1 FOR DETAILS TYING BARRIER FOOTING TO ADJACENT CONCRETE.
3. EXCEPT IN ANCHORS, VERTICAL REINFORCING STIRRUP NOT REQUIRED FOR ROADWAY OFFSETS LESS THAN 1' - 0".
4. 2" AND 4" LIP AT BASE OF BARRIER IS TO ACCOUNT FOR ASPHALT OVERLAY DEPTH.
5. SEE TABLES ON PLAN DETAIL SHEETS FOR SPECIFIC BARRIER LOCATIONS.
6. SEE S.D.D. "CONCRETE BARRIER SINGLE SLOPE (CBSS)" FOR ADDITIONAL DETAILS.



CONCRETE BARRIER TYPE S56A SPECIAL WITH 2" LIP AT BASE

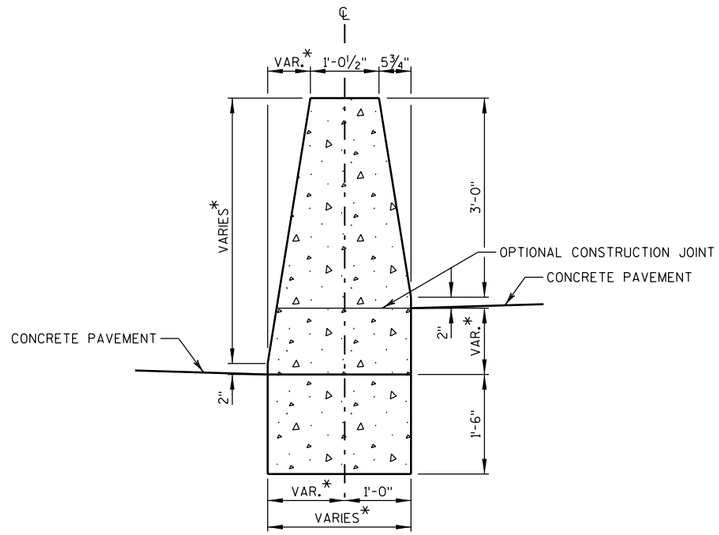
SEMINOLE HIGHWAY TO FISH HATCHERY ROAD
(WB SHOWN HIGHER. MIRROR IF EB IS HIGHER.)



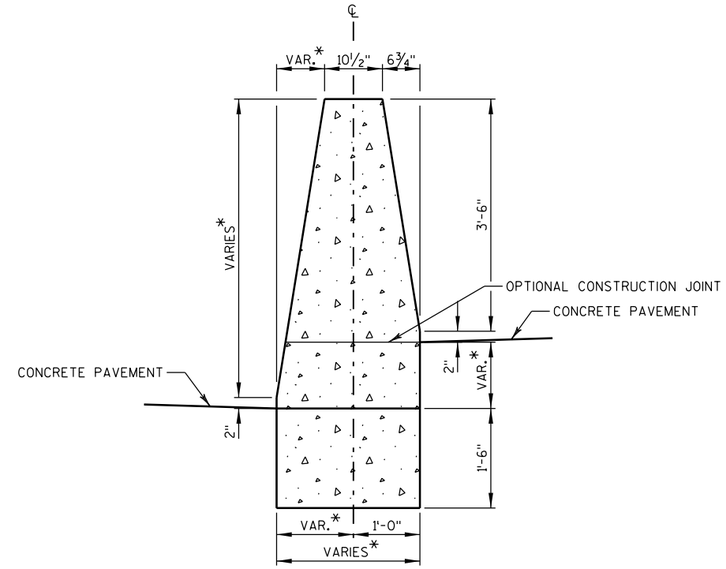
CONCRETE BARRIER TYPE S56A SPECIAL WITH 4" LIP AT BASE

FISH HATCHERY ROAD TO I-39/90
(WB SHOWN HIGHER. MIRROR IF EB IS HIGHER.)

2



SECTION A-A



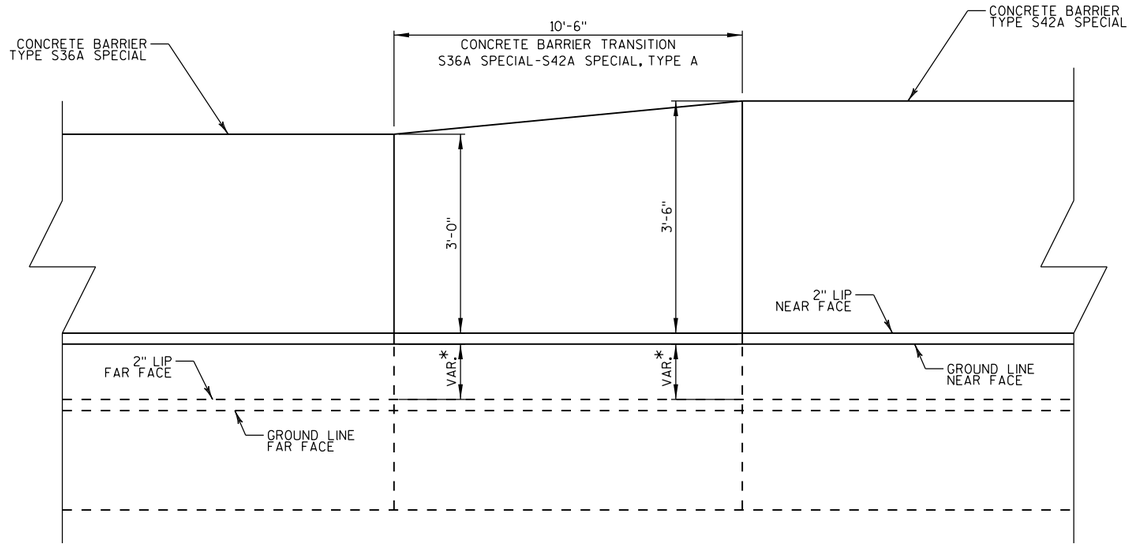
SECTION B-B

*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

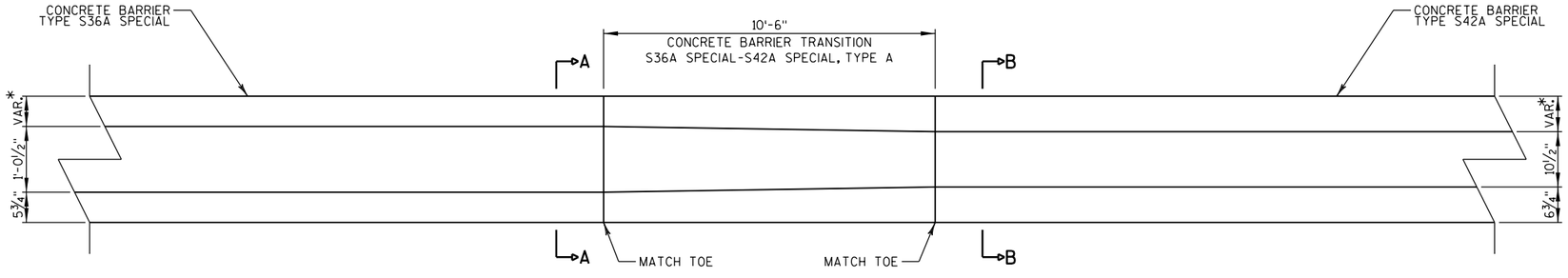
CONCRETE BARRIER TRANSITION S36A SPECIAL-S42A SPECIAL, TYPE A

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



ELEVATION VIEW



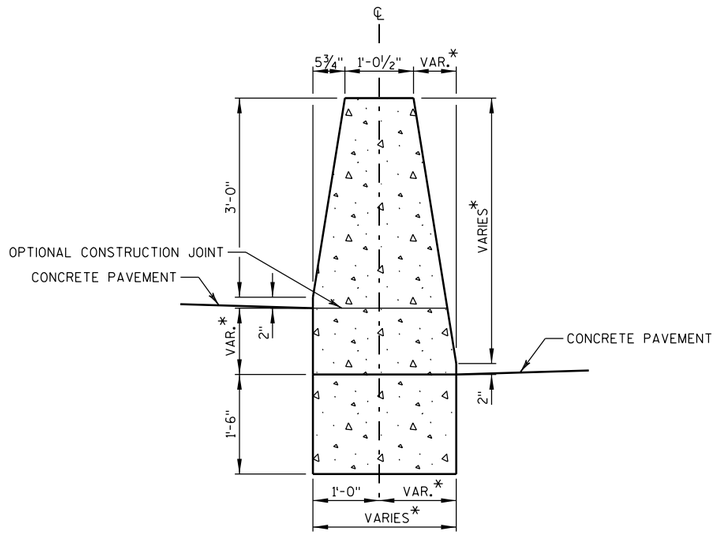
PLAN VIEW

*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

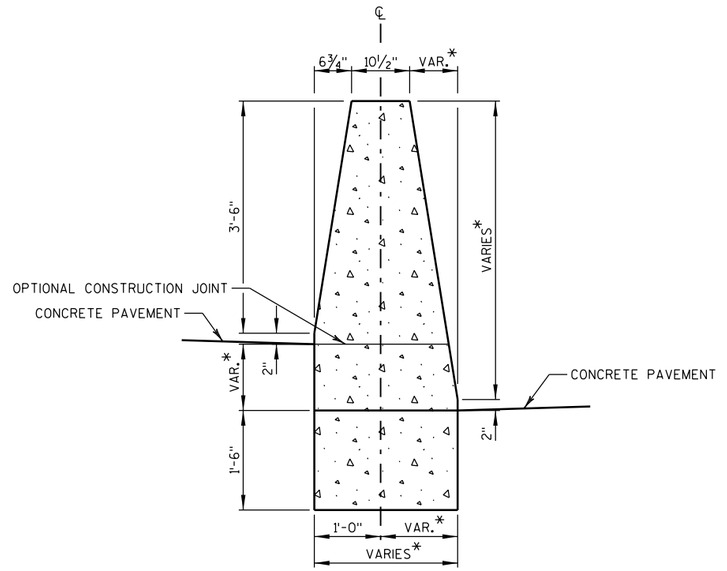
CONCRETE BARRIER TRANSITION S36A SPECIAL-S42A SPECIAL, TYPE A

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



SECTION A-A



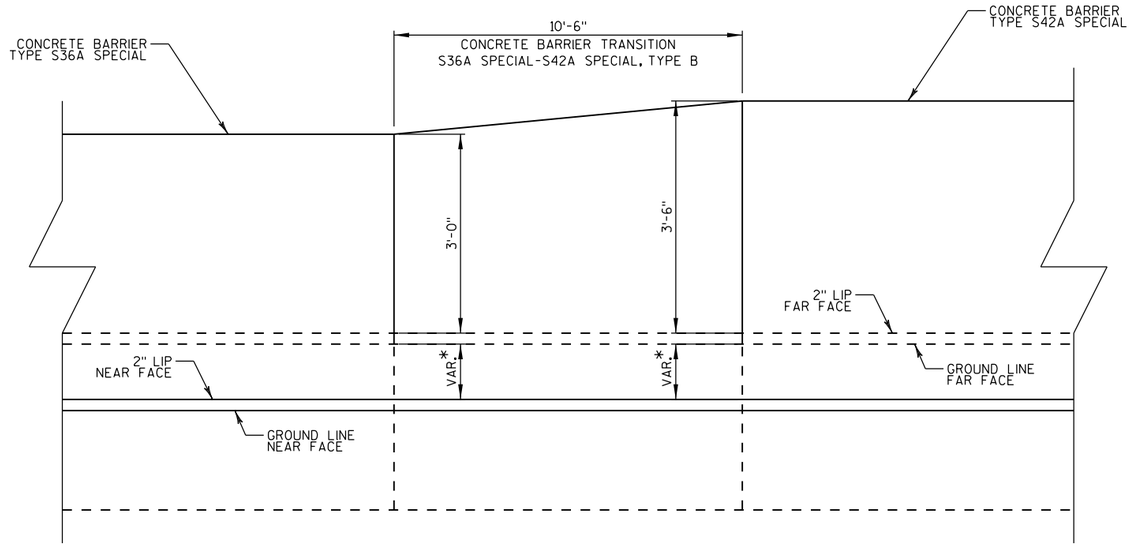
SECTION B-B

*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

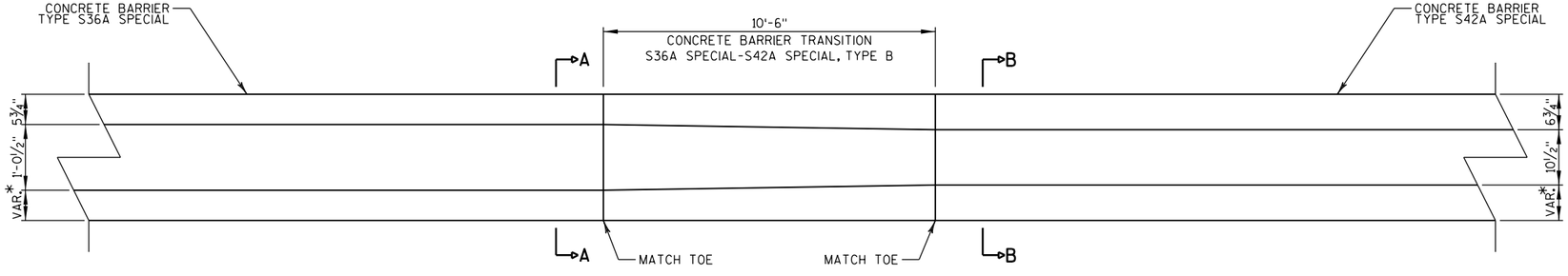
CONCRETE BARRIER TRANSITION S36A SPECIAL-S42A SPECIAL, TYPE B

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



ELEVATION VIEW



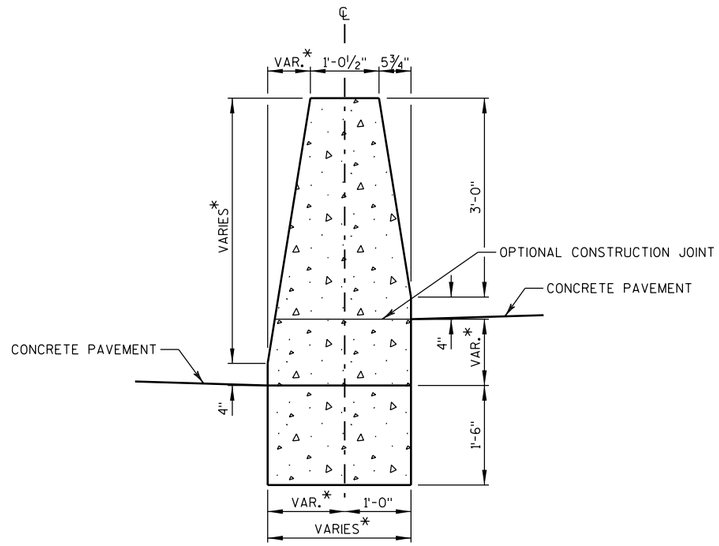
PLAN VIEW

*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

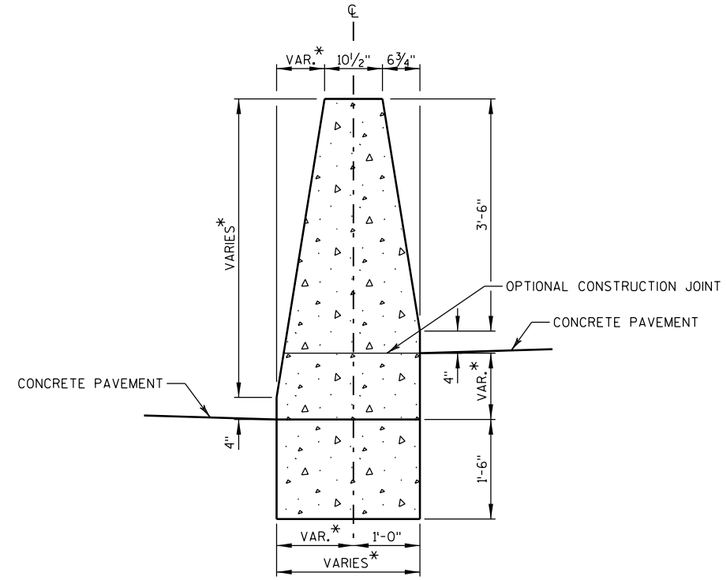
CONCRETE BARRIER TRANSITION S36A SPECIAL-S42A SPECIAL, TYPE B

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



SECTION A-A



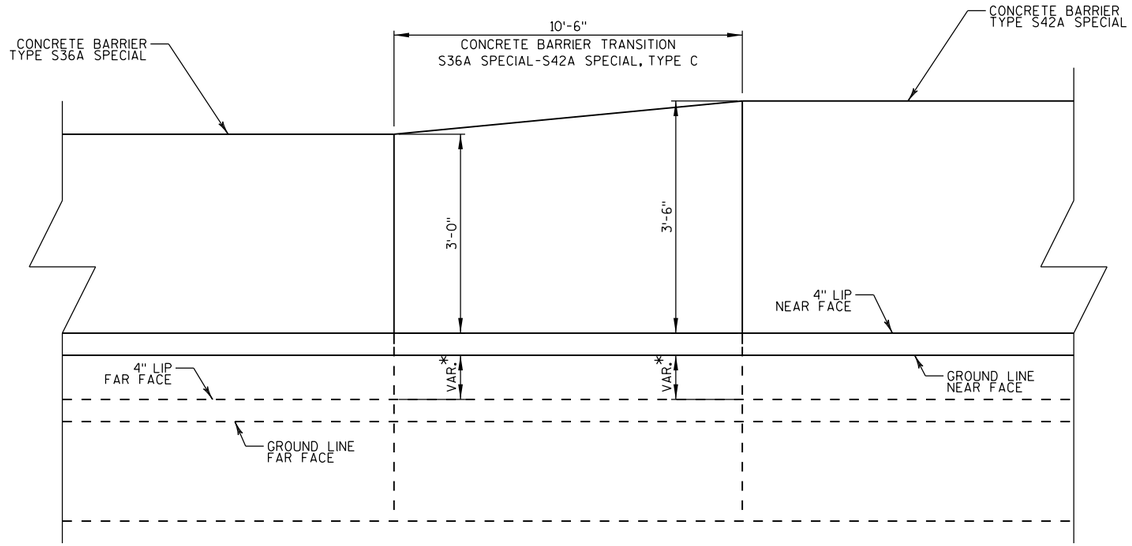
SECTION B-B

*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

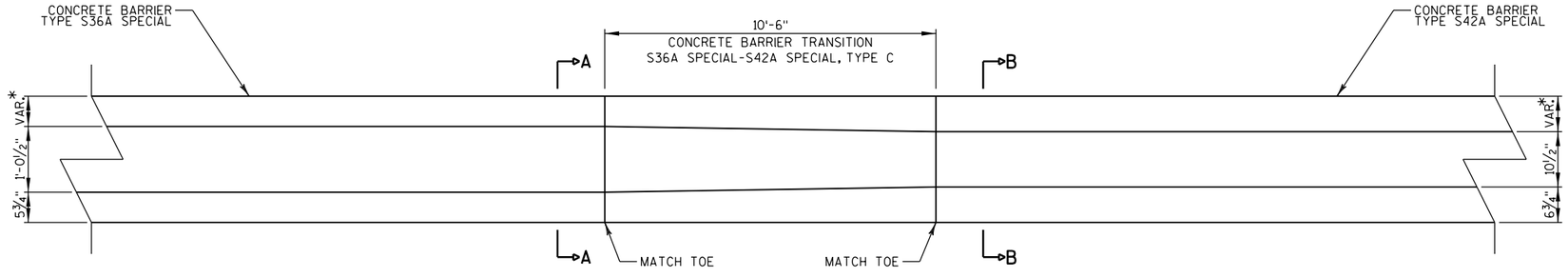
CONCRETE BARRIER TRANSITION S36A SPECIAL-S42A SPECIAL, TYPE C

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



ELEVATION VIEW



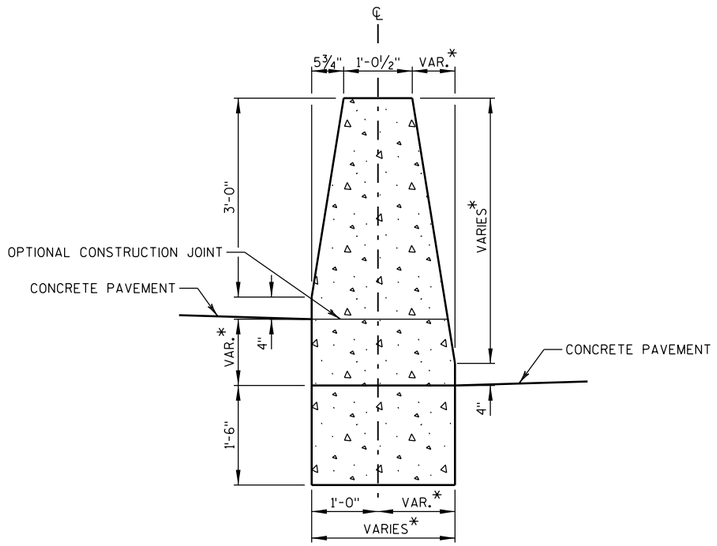
PLAN VIEW

*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

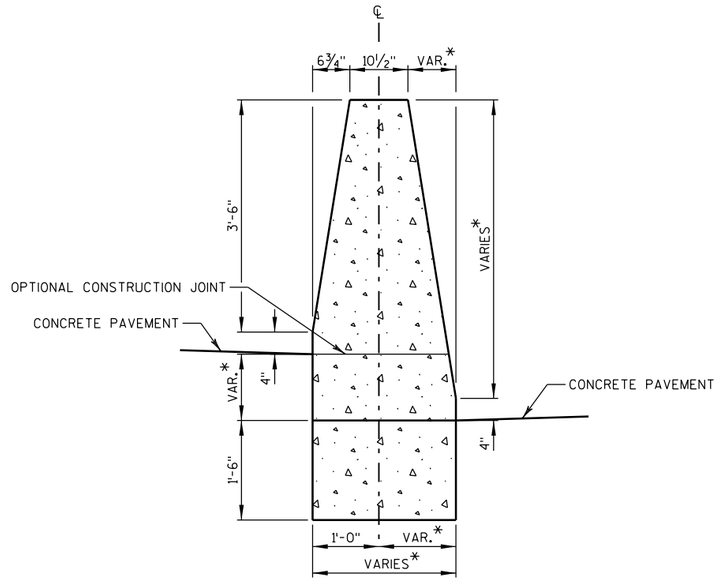
CONCRETE BARRIER TRANSITION S36A SPECIAL-S42A SPECIAL, TYPE C

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



SECTION A-A



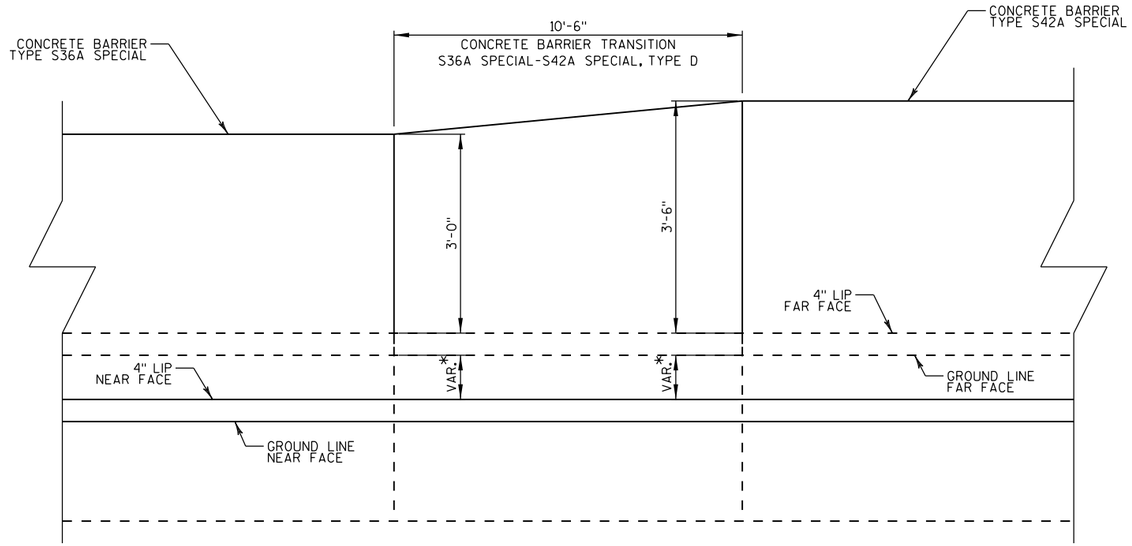
SECTION B-B

*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

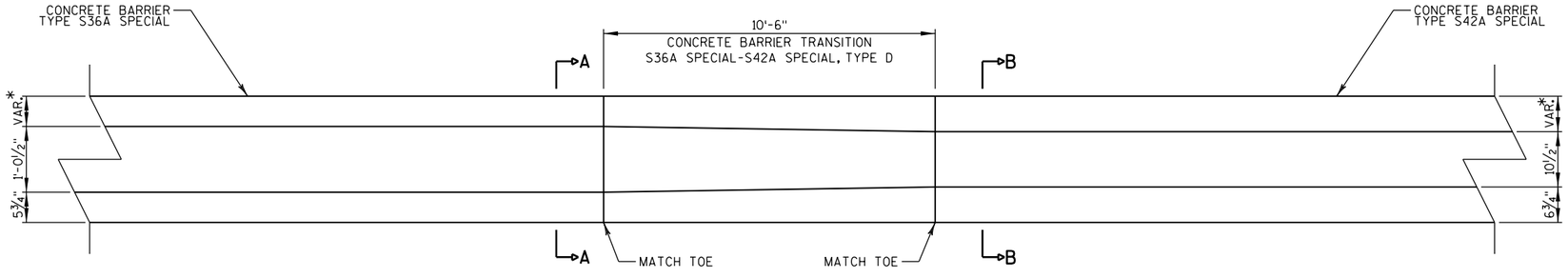
CONCRETE BARRIER TRANSITION S36A SPECIAL-S42A SPECIAL, TYPE D

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



ELEVATION VIEW



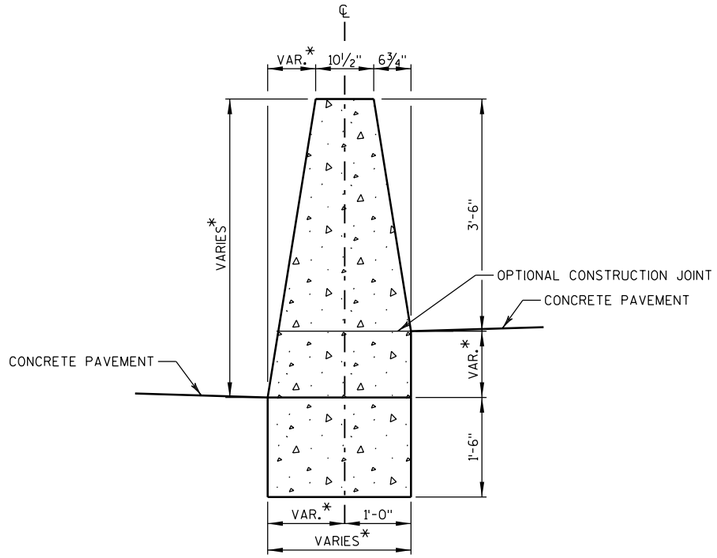
PLAN VIEW

*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

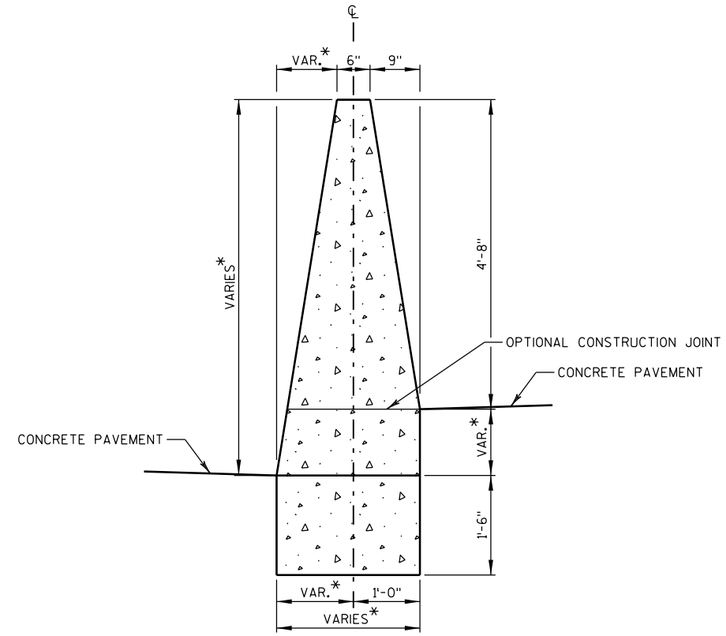
CONCRETE BARRIER TRANSITION S36A SPECIAL-S42A SPECIAL, TYPE D

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



SECTION A-A

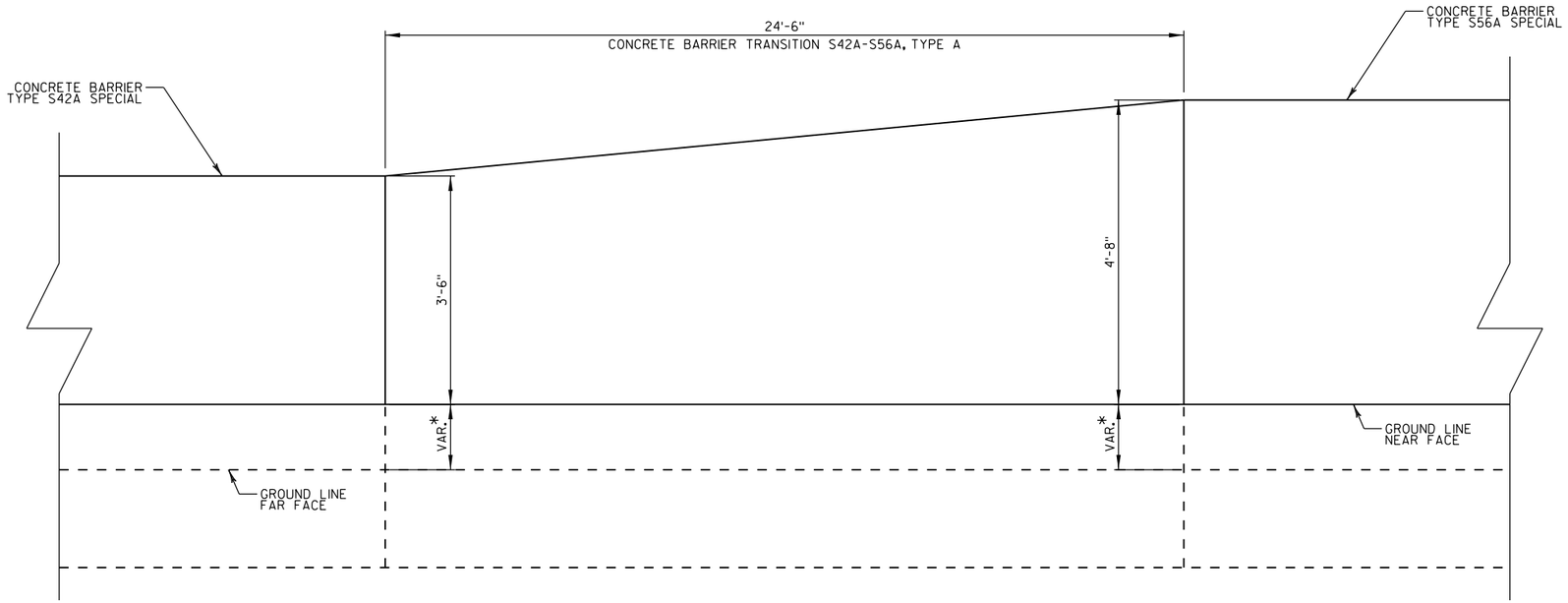


SECTION B-B

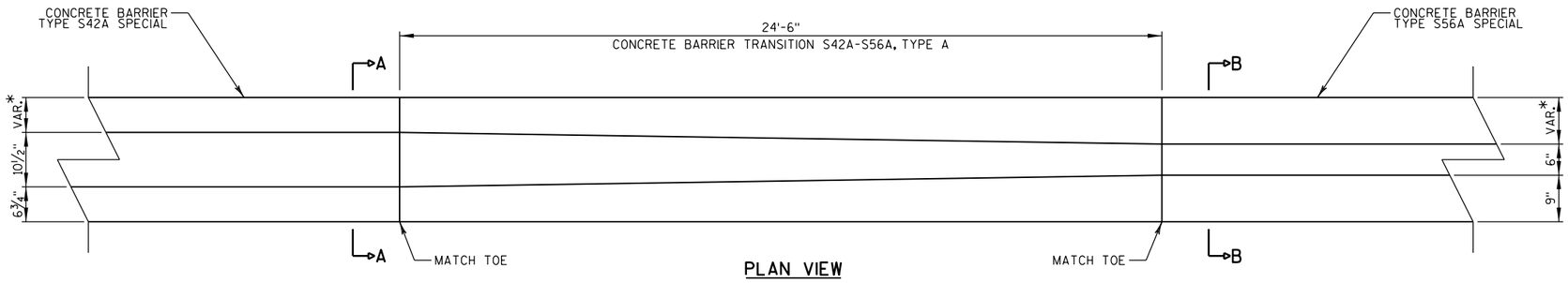
*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

CONCRETE BARRIER TRANSITION S42A-S56A, TYPE A

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E



ELEVATION VIEW



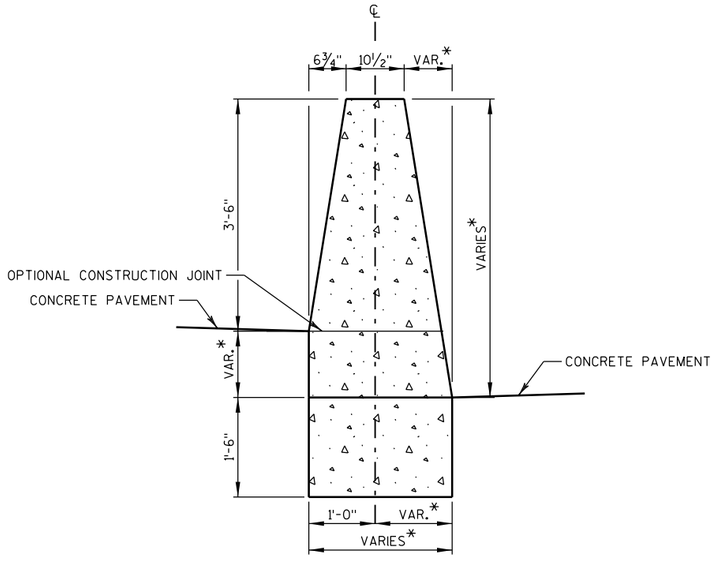
PLAN VIEW

*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

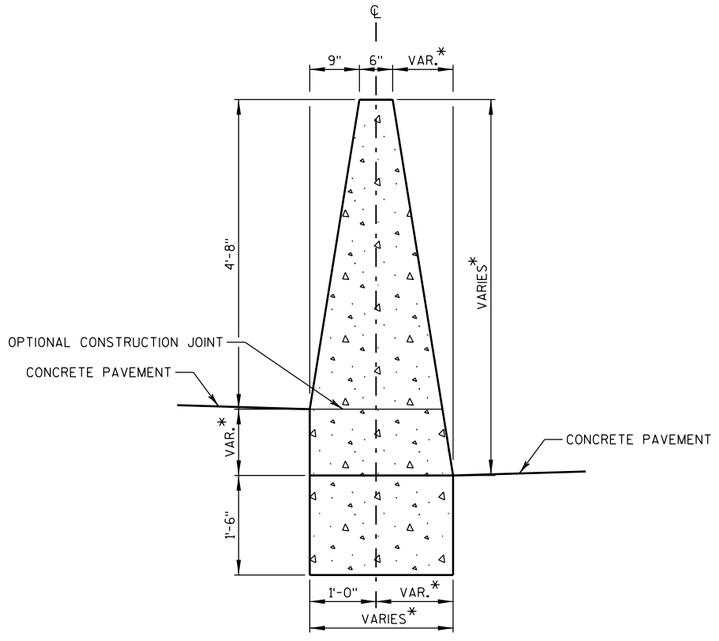
CONCRETE BARRIER TRANSITION S42A-S56A, TYPE A

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



SECTION A-A

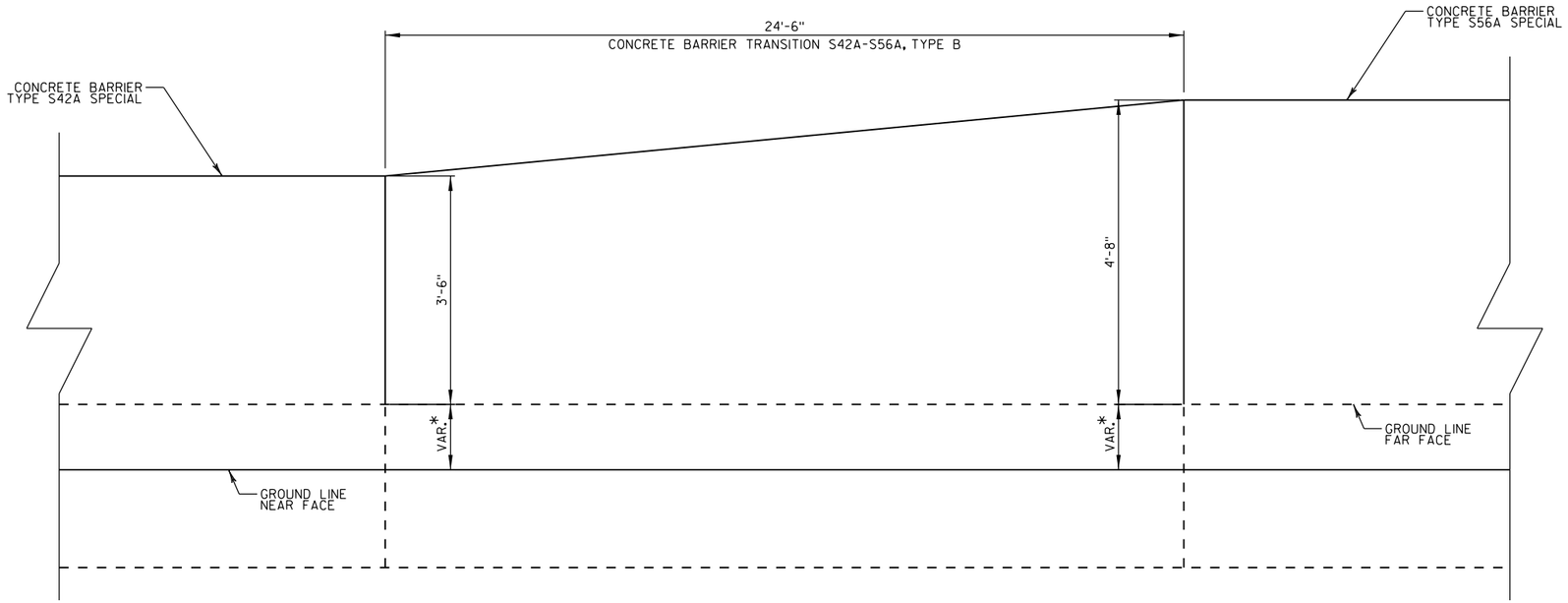


SECTION B-B

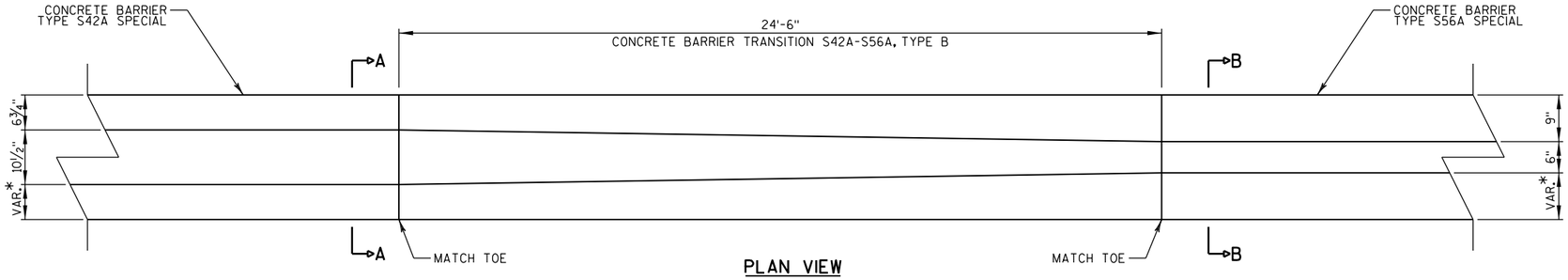
*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

CONCRETE BARRIER TRANSITION S42A-S56A, TYPE B

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E



ELEVATION VIEW



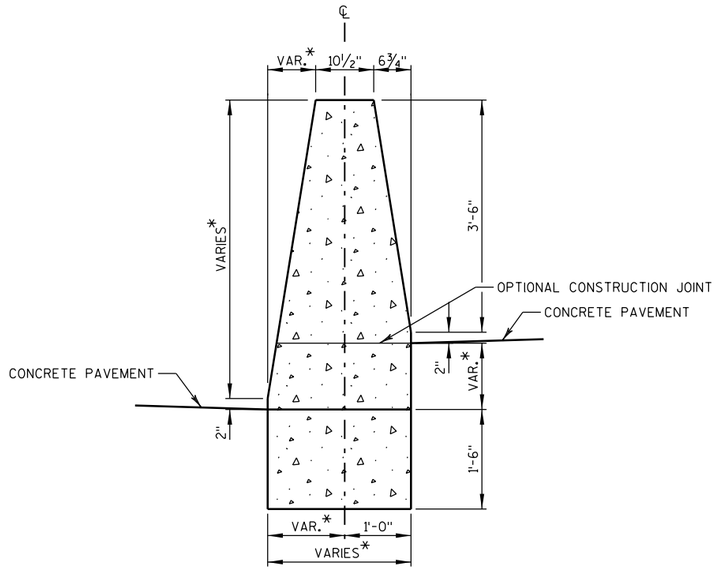
PLAN VIEW

*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

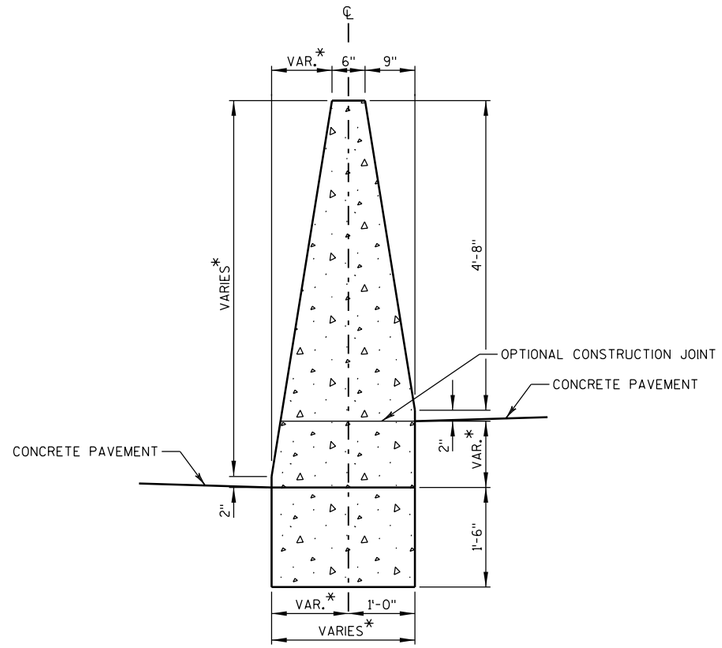
CONCRETE BARRIER TRANSITION S42A-S56A, TYPE B

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



SECTION A-A



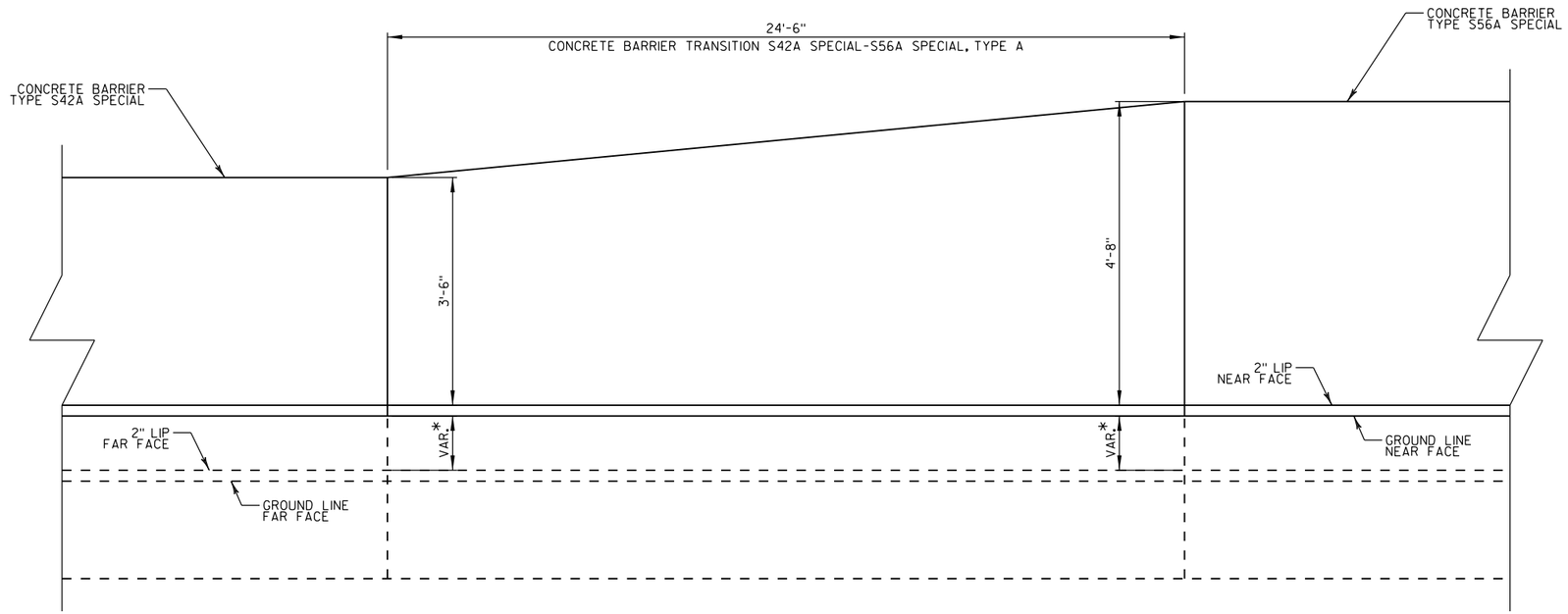
SECTION B-B

*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

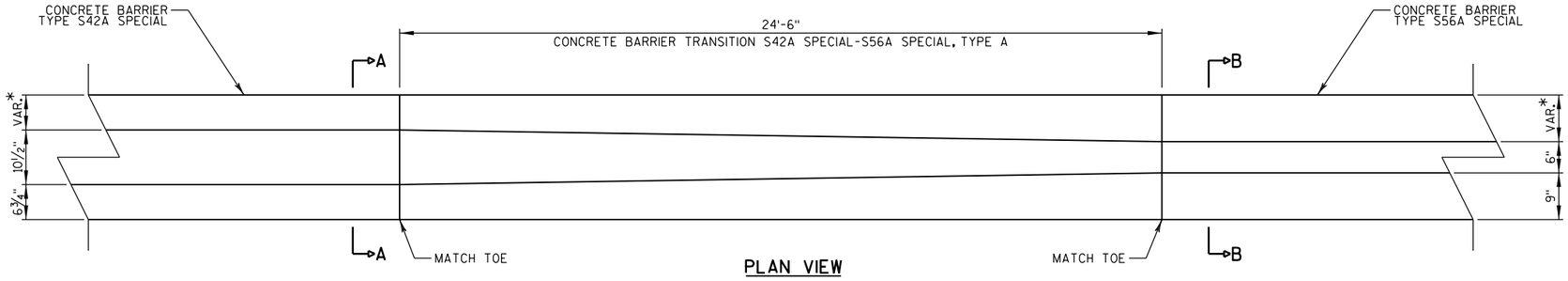
CONCRETE BARRIER TRANSITION S42A SPECIAL-S56A SPECIAL, TYPE A

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



ELEVATION VIEW



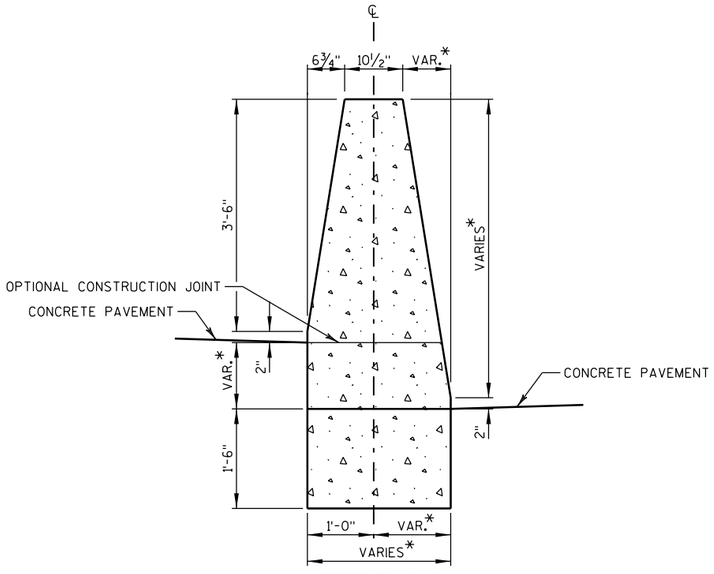
PLAN VIEW

*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

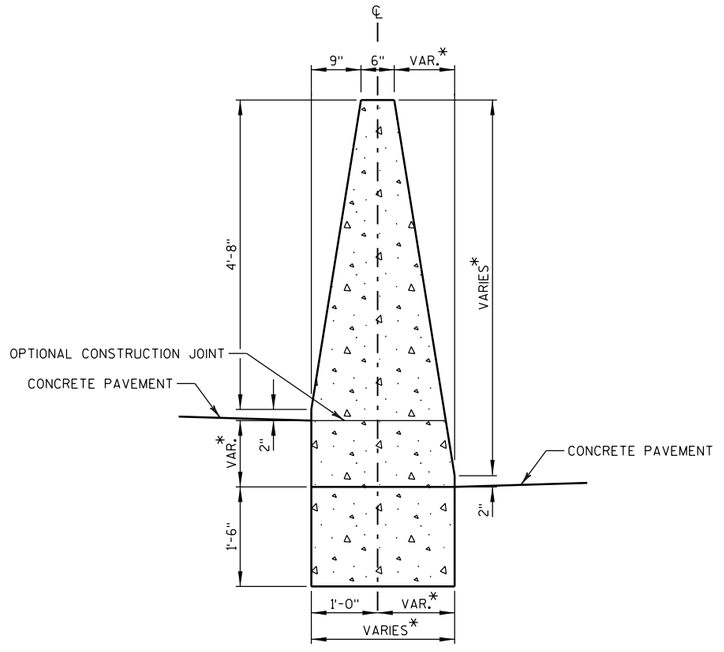
CONCRETE BARRIER TRANSITION S42A SPECIAL-S56A SPECIAL, TYPE A

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



SECTION A-A

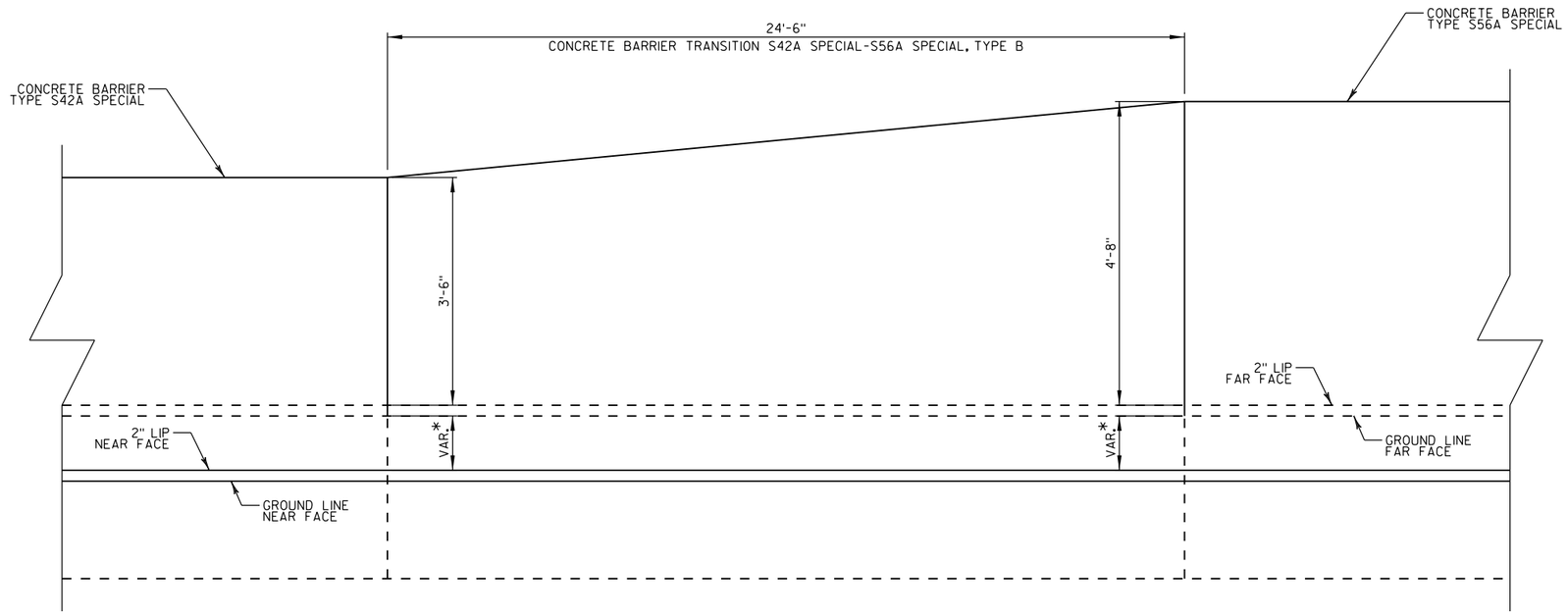


SECTION B-B

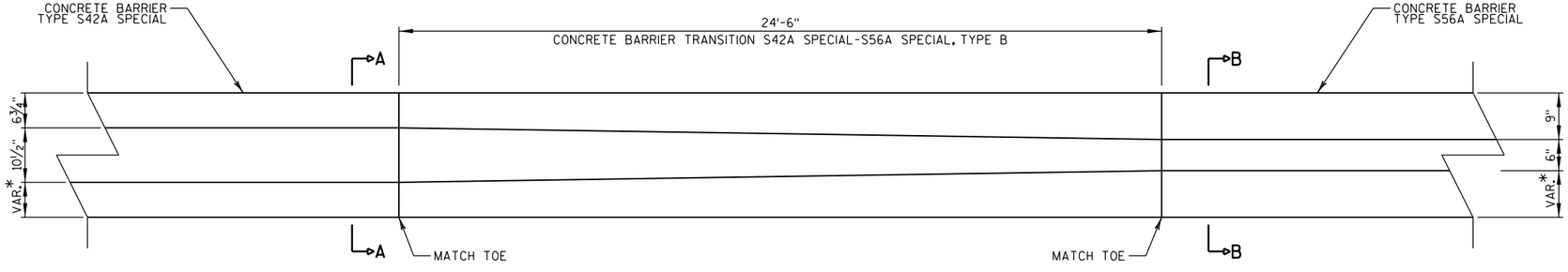
*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

CONCRETE BARRIER TRANSITION S42A SPECIAL-S56A SPECIAL, TYPE B

2



ELEVATION VIEW

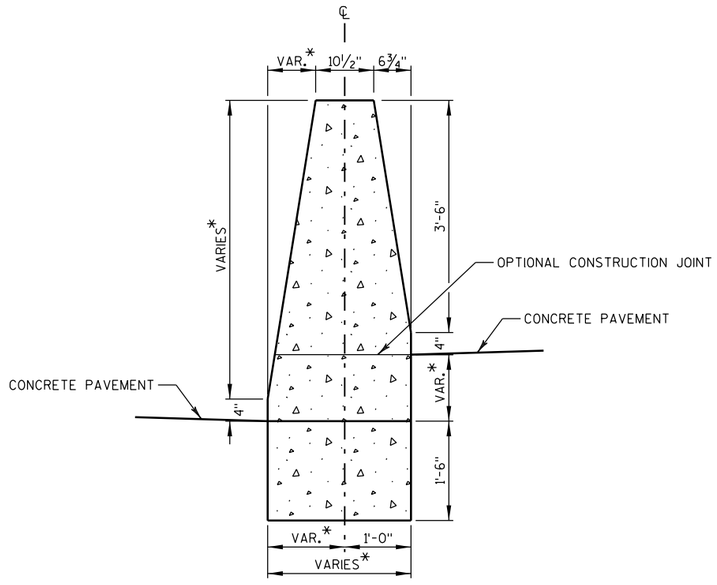


*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

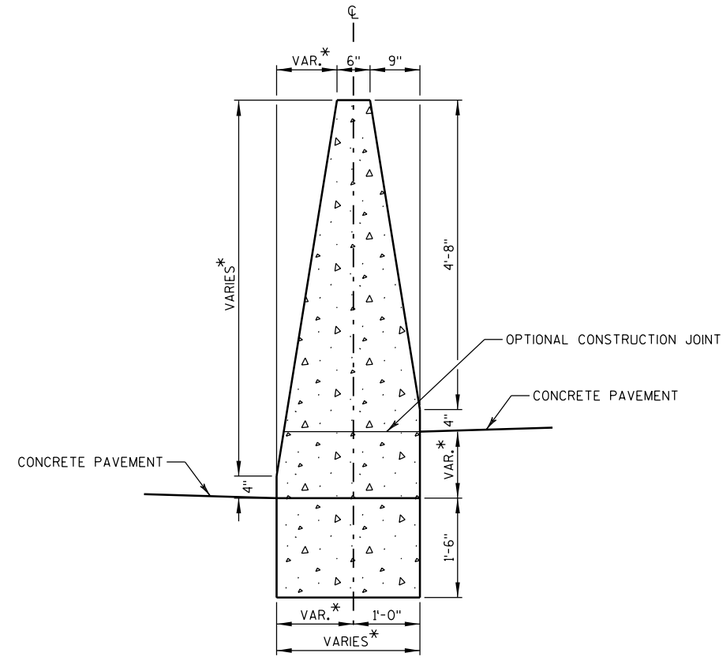
CONCRETE BARRIER TRANSITION S42A SPECIAL-S56A SPECIAL, TYPE B

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



SECTION A-A



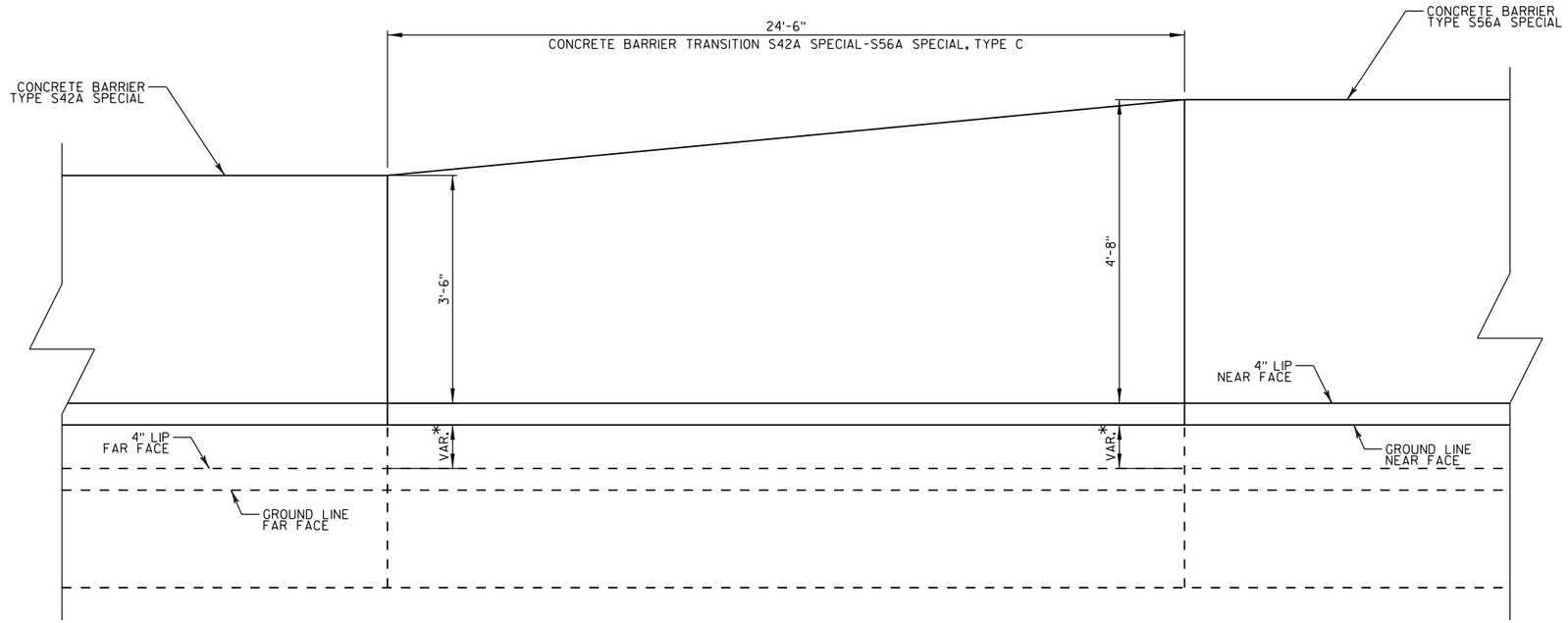
SECTION B-B

*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

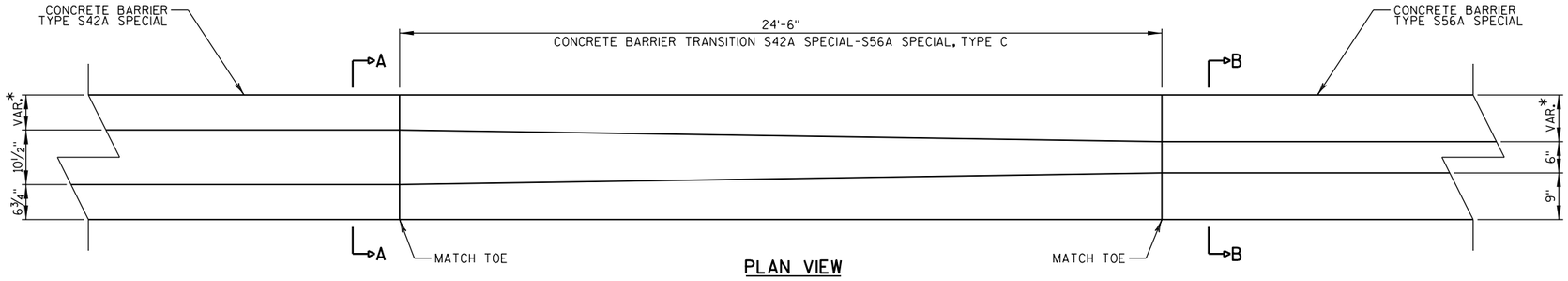
CONCRETE BARRIER TRANSITION S42A SPECIAL-S56A SPECIAL, TYPE C

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



ELEVATION VIEW



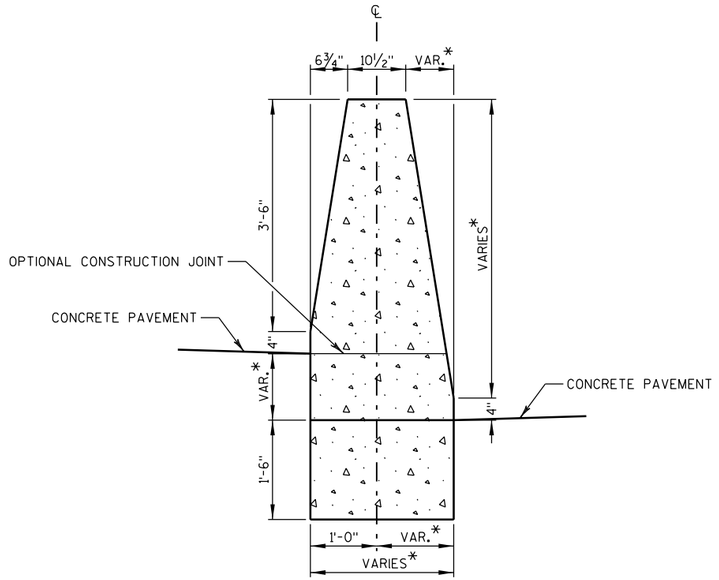
PLAN VIEW

*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

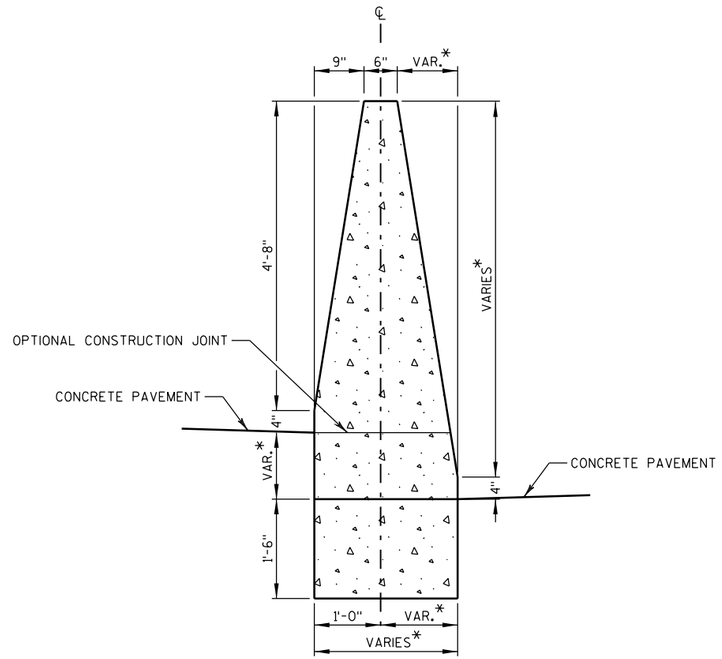
CONCRETE BARRIER TRANSITION S42A SPECIAL-S56A SPECIAL, TYPE C

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



SECTION A-A



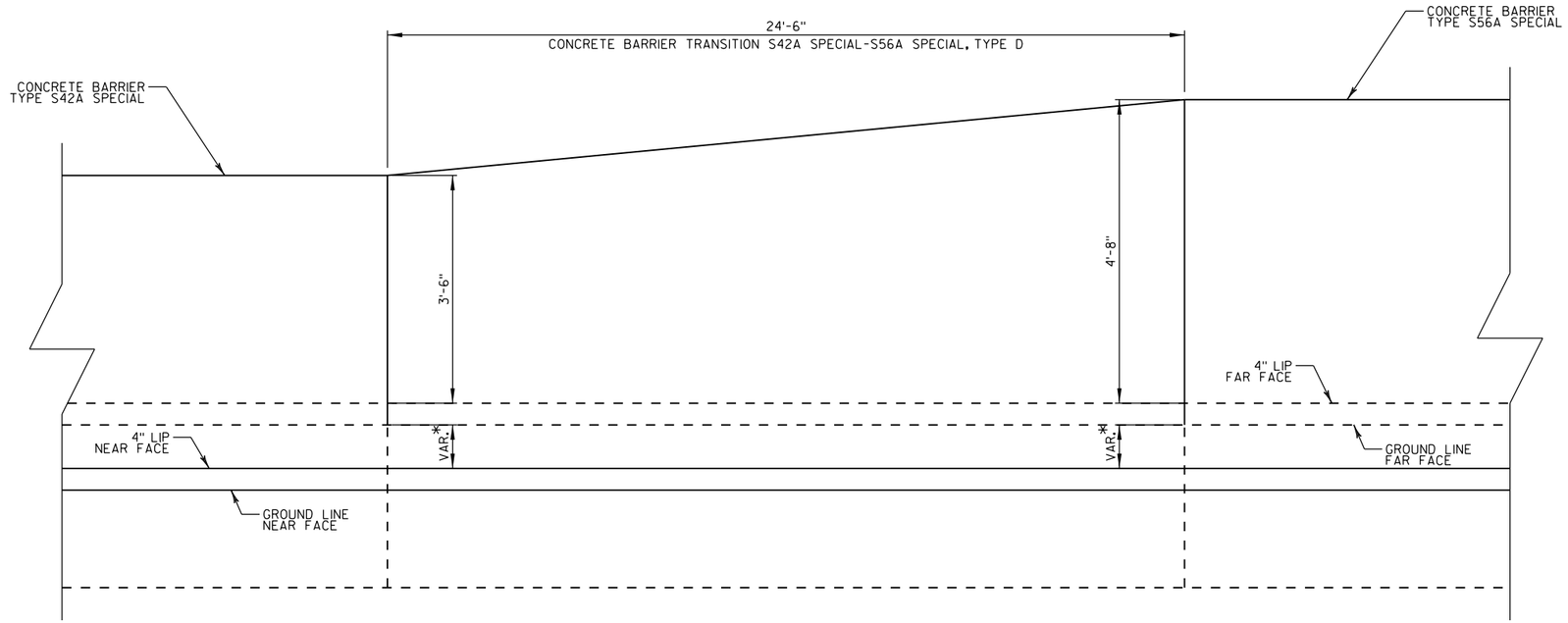
SECTION B-B

*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

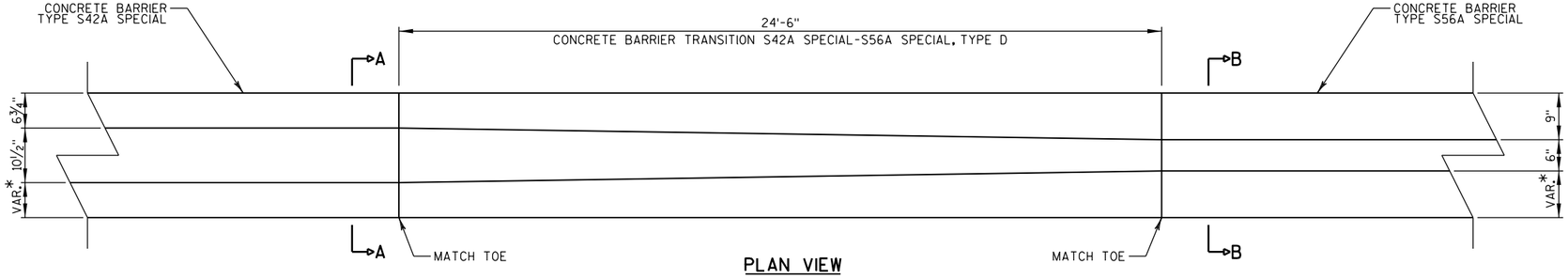
CONCRETE BARRIER TRANSITION S42A SPECIAL-S56A SPECIAL, TYPE D

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



ELEVATION VIEW



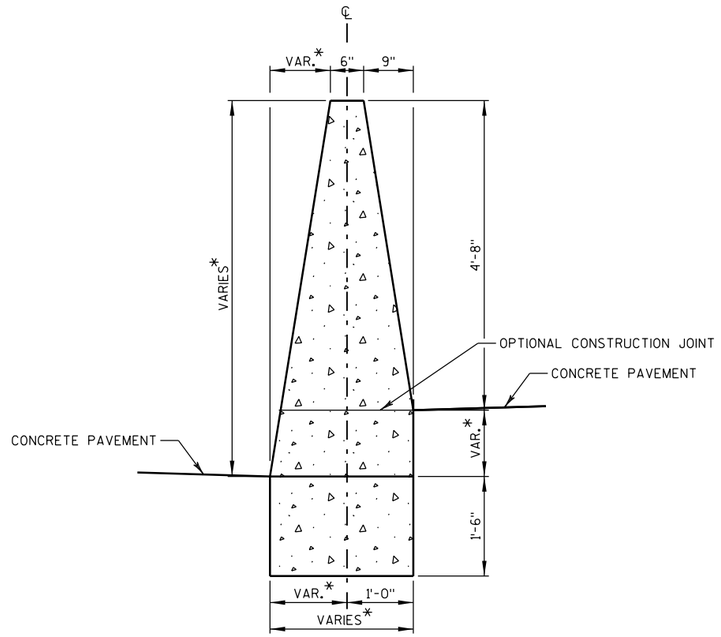
PLAN VIEW

*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

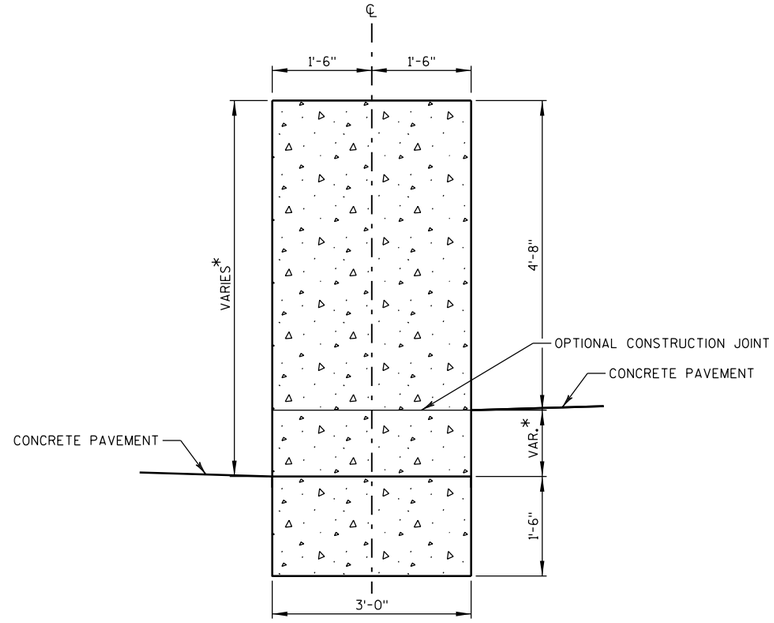
CONCRETE BARRIER TRANSITION S42A SPECIAL-S56A SPECIAL, TYPE D

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



SECTION A-A



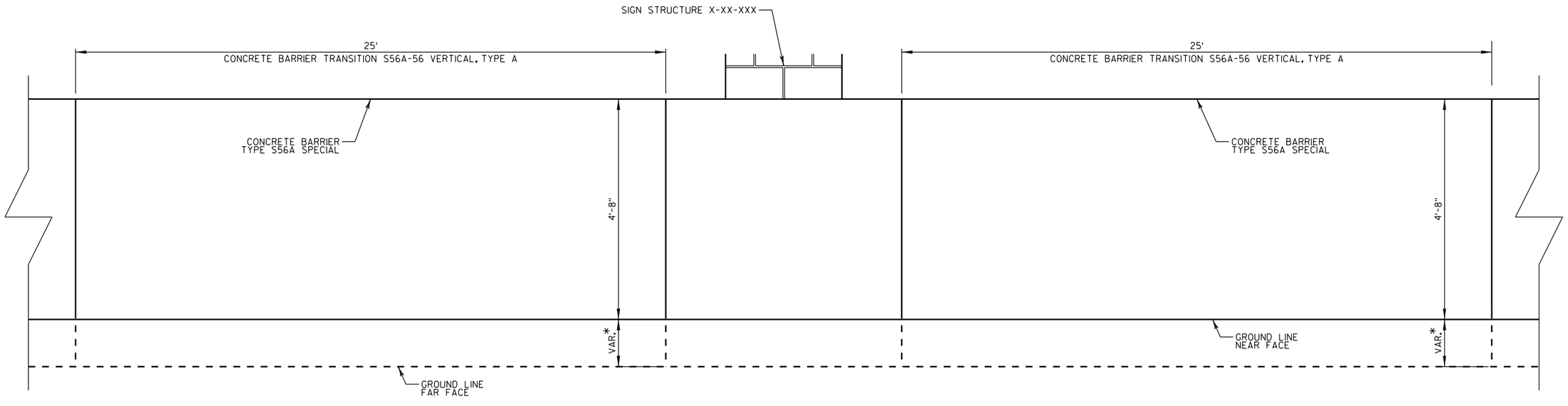
SECTION B-B

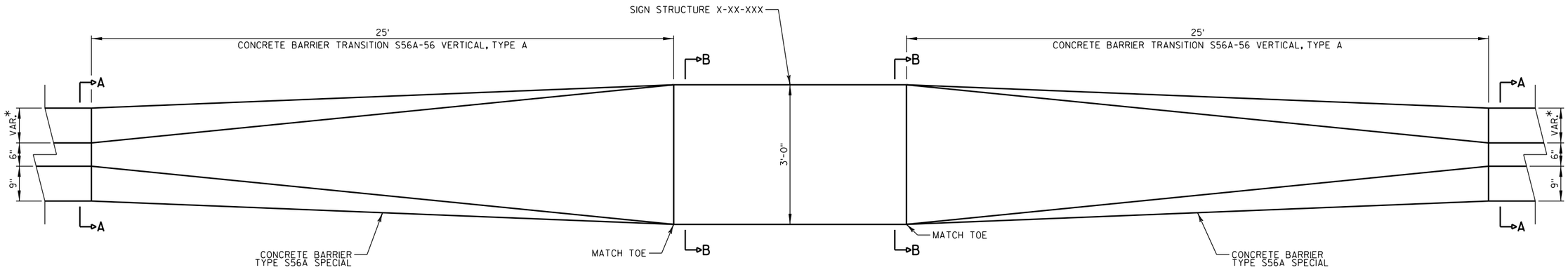
*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

CONCRETE BARRIER TRANSITION S56A-56 VERTICAL, TYPE A

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



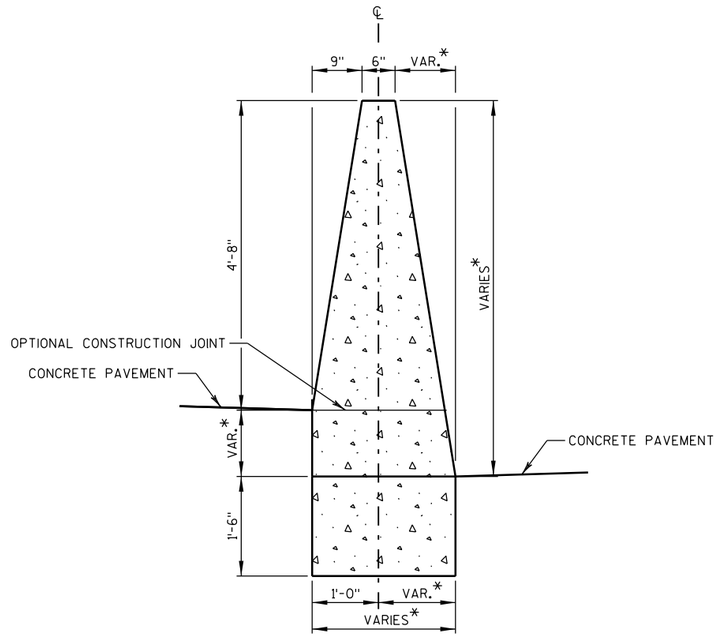


*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

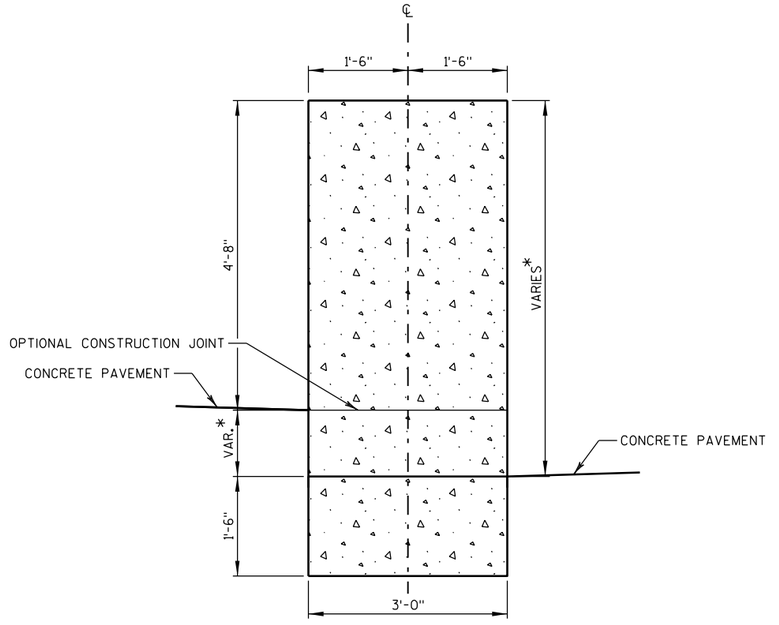
CONCRETE BARRIER TRANSITION S56A-56 VERTICAL, TYPE A

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



SECTION A-A



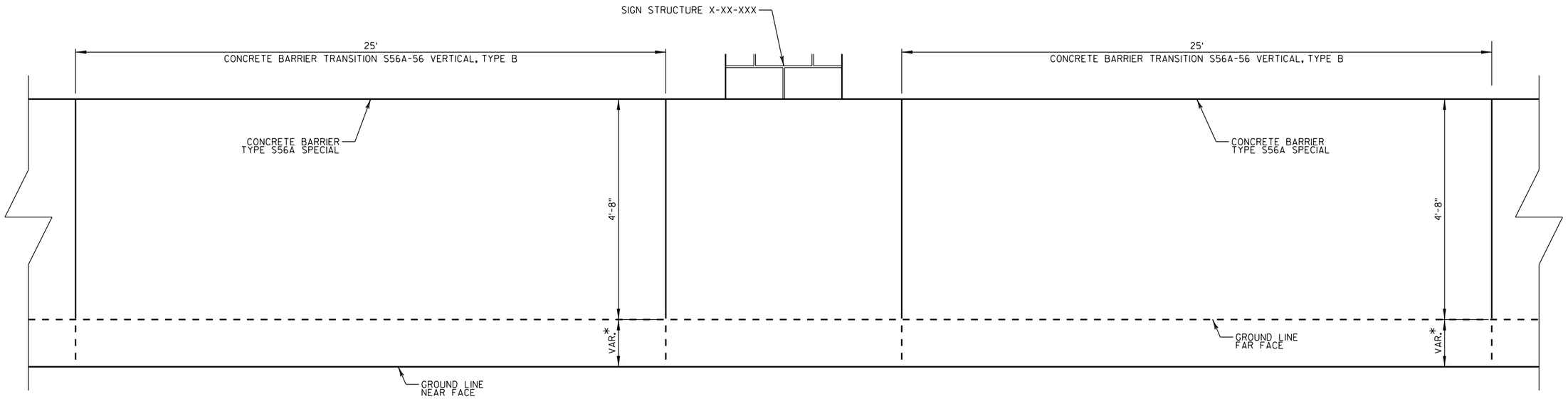
SECTION B-B

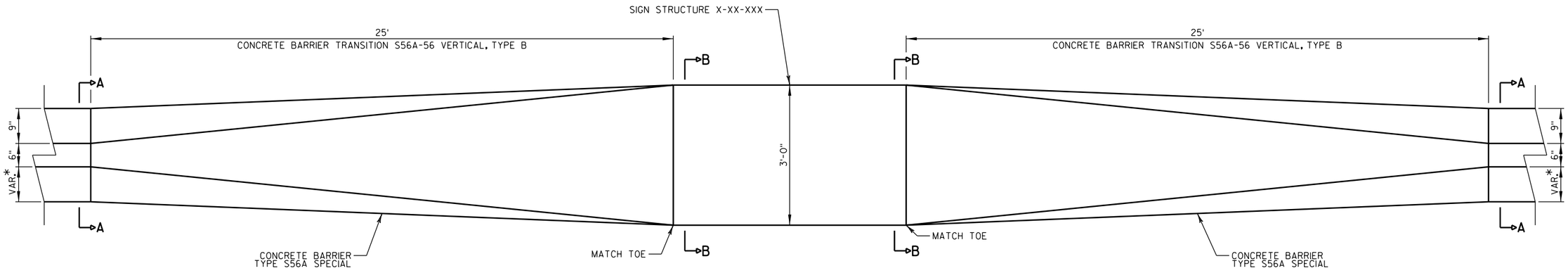
*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

CONCRETE BARRIER TRANSITION S56A-56 VERTICAL, TYPE B

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



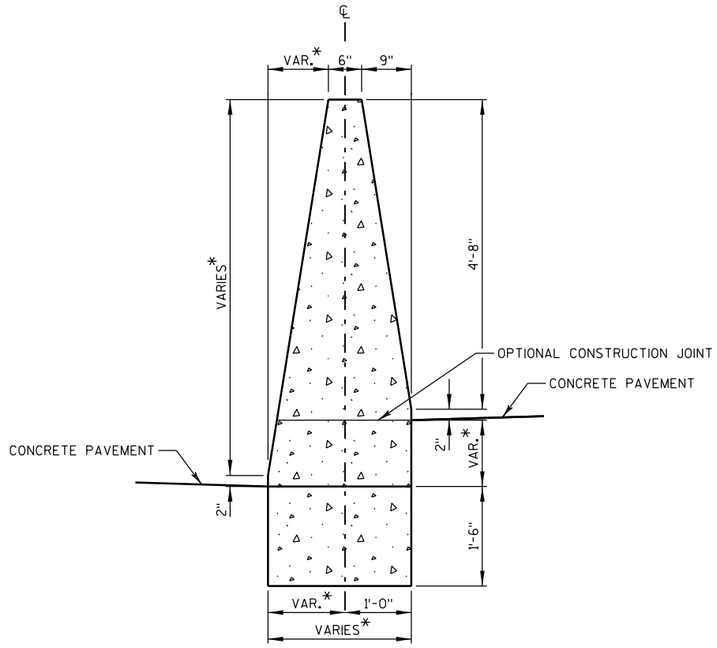


*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

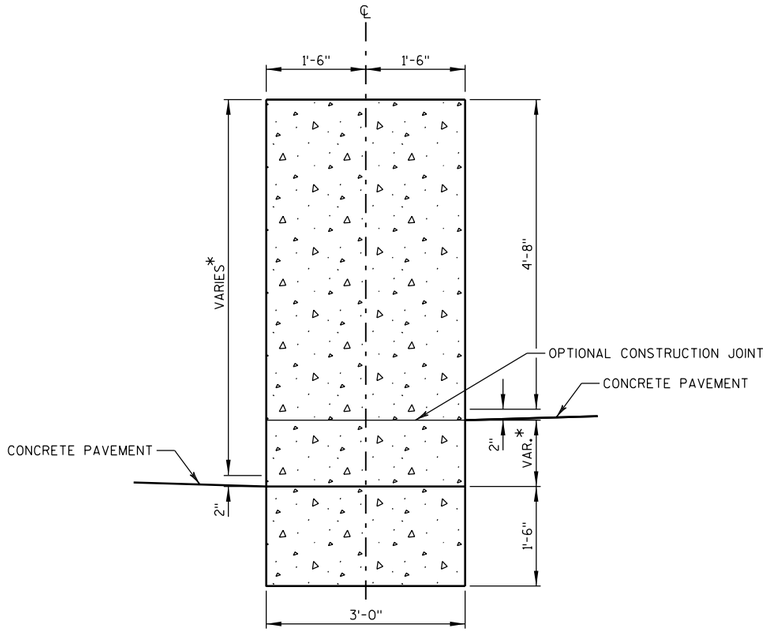
CONCRETE BARRIER TRANSITION S56A-56 VERTICAL, TYPE B

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



SECTION A-A



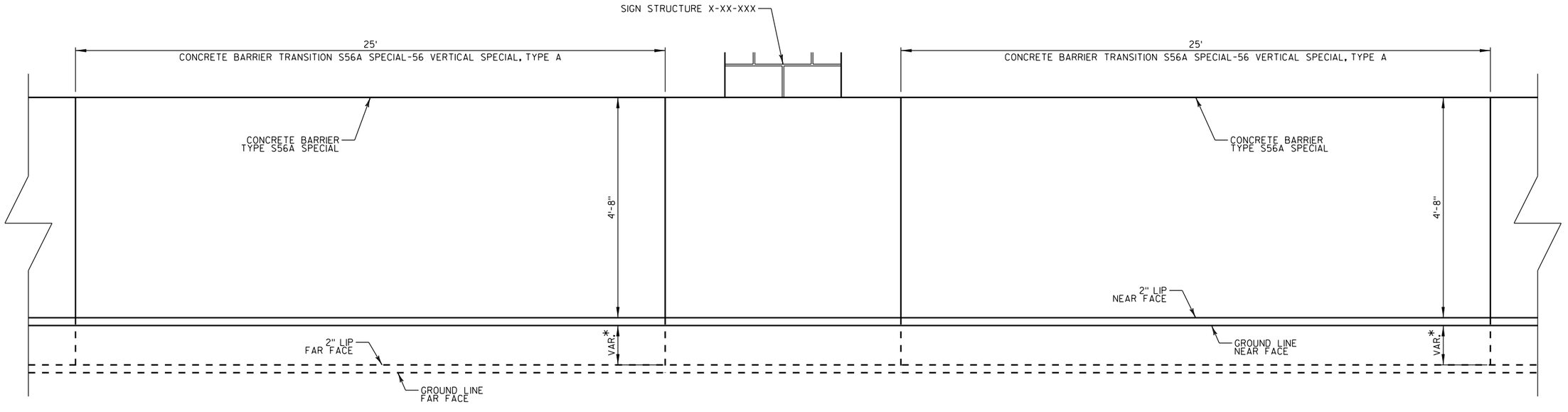
SECTION B-B

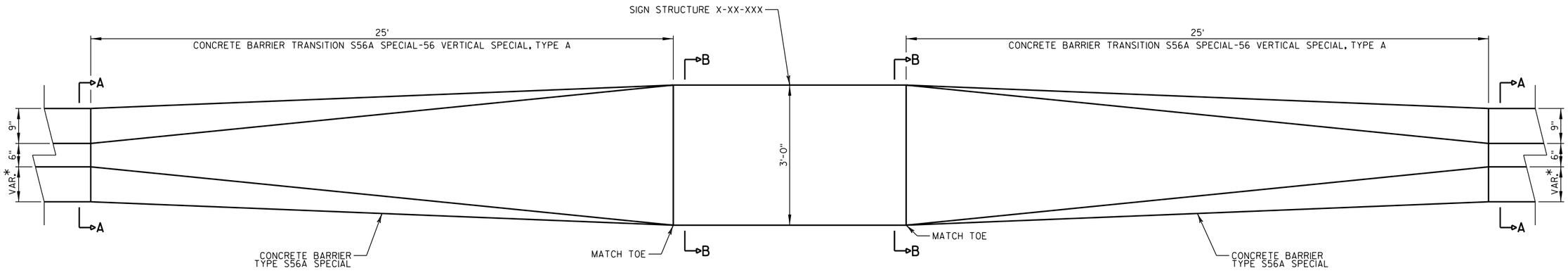
*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

CONCRETE BARRIER TRANSITION S56A SPECIAL-56 VERTICAL SPECIAL, TYPE A

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



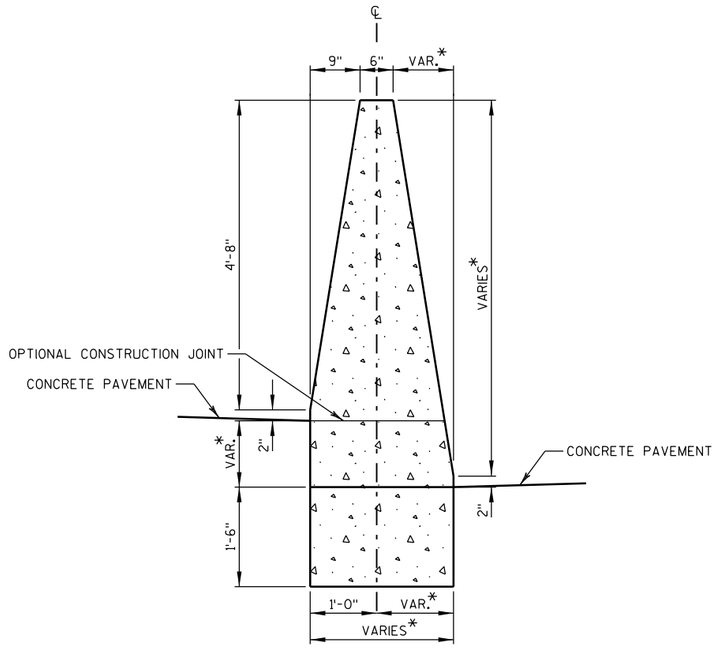


*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

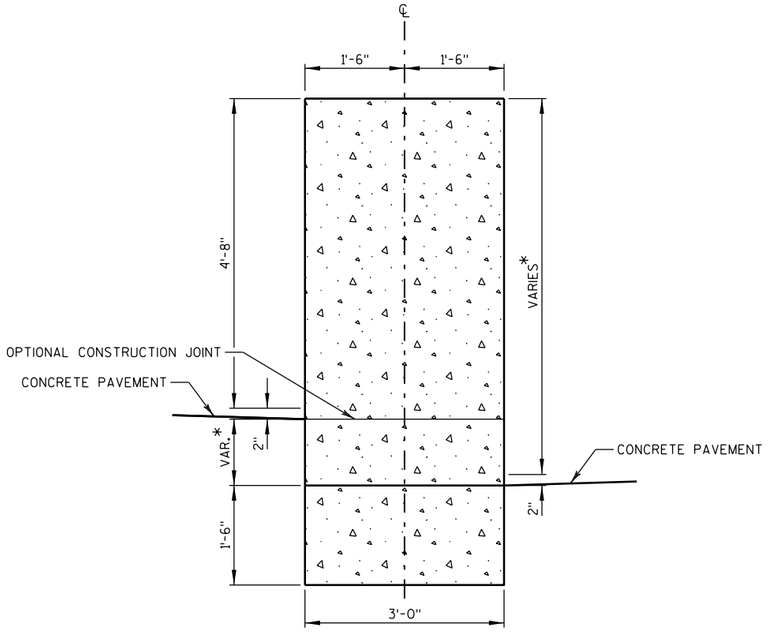
CONCRETE BARRIER TRANSITION S56A SPECIAL-56 VERTICAL SPECIAL, TYPE A

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



SECTION A-A



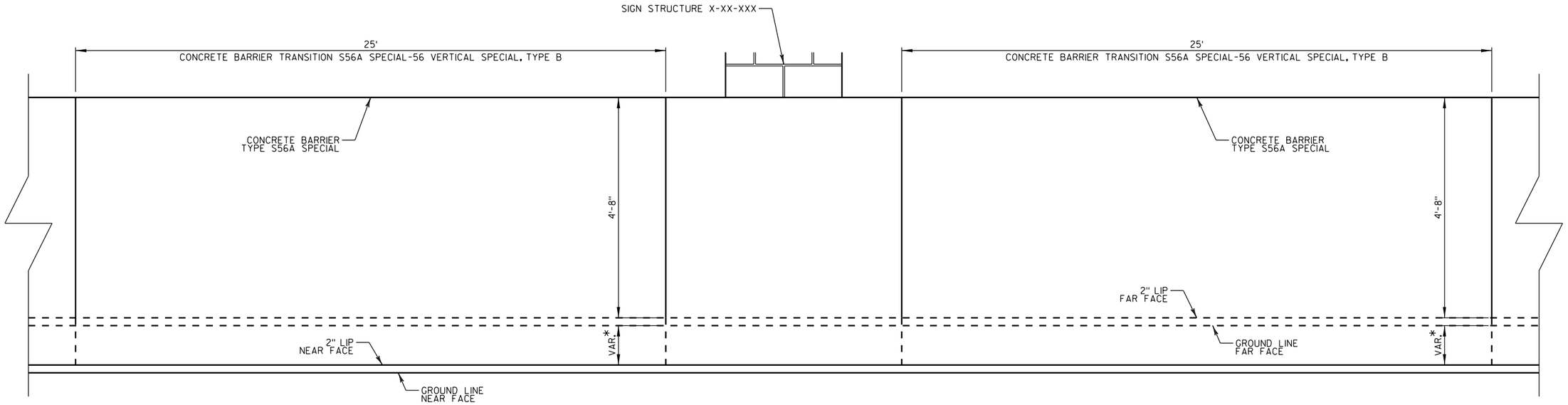
SECTION B-B

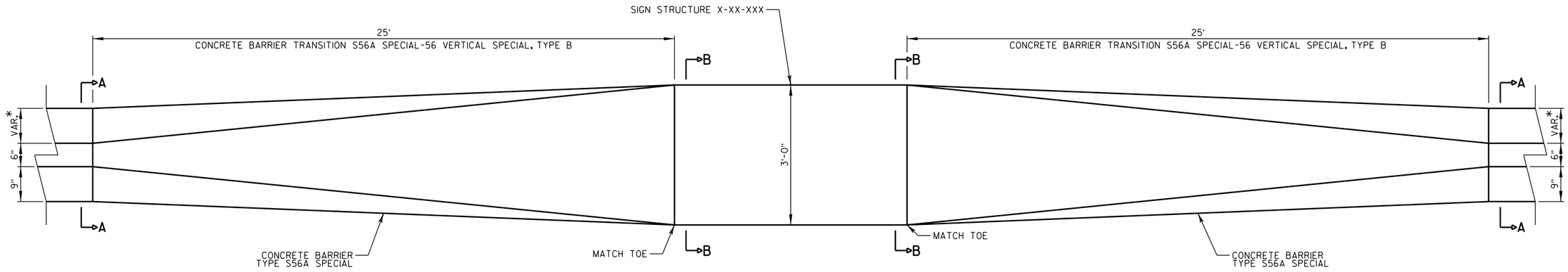
*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

CONCRETE BARRIER TRANSITION S56A SPECIAL-56 VERTICAL SPECIAL, TYPE B

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



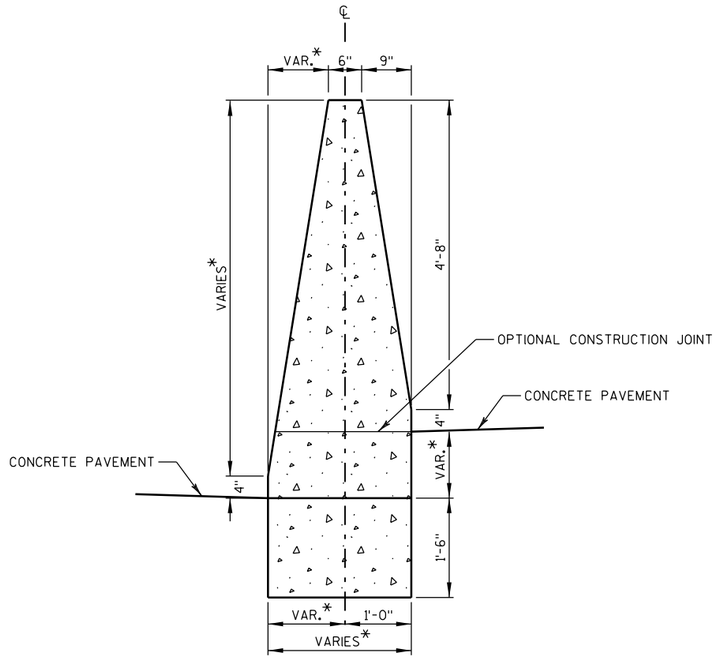


*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

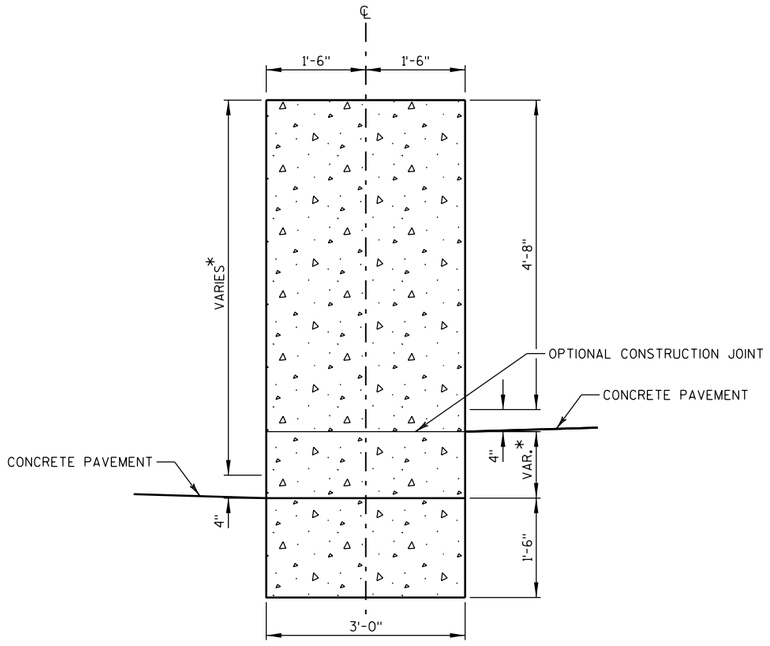
CONCRETE BARRIER TRANSITION S56A SPECIAL-56 VERTICAL SPECIAL, TYPE B

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



SECTION A-A



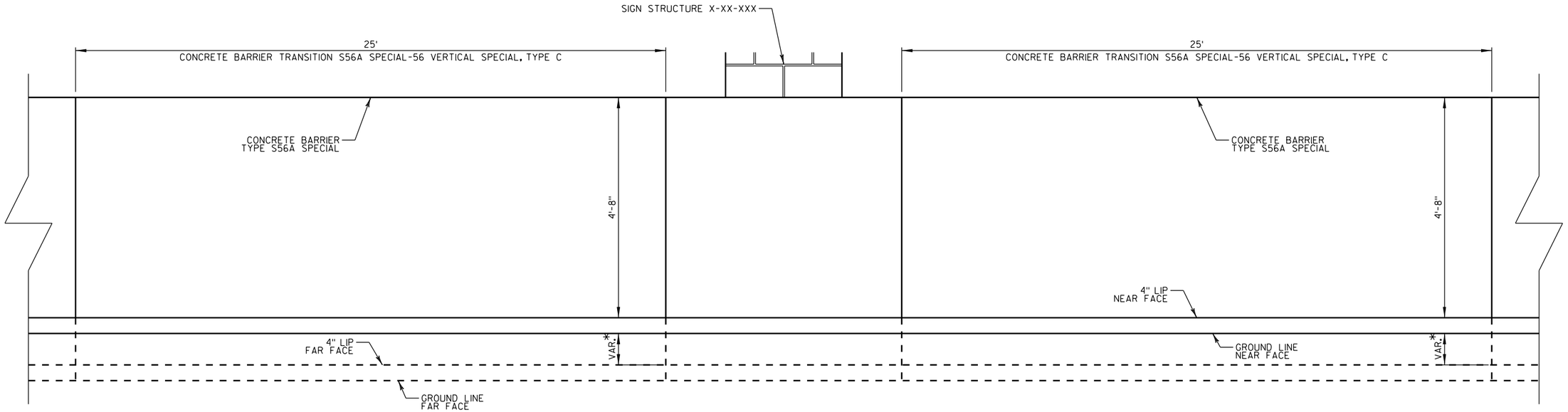
SECTION B-B

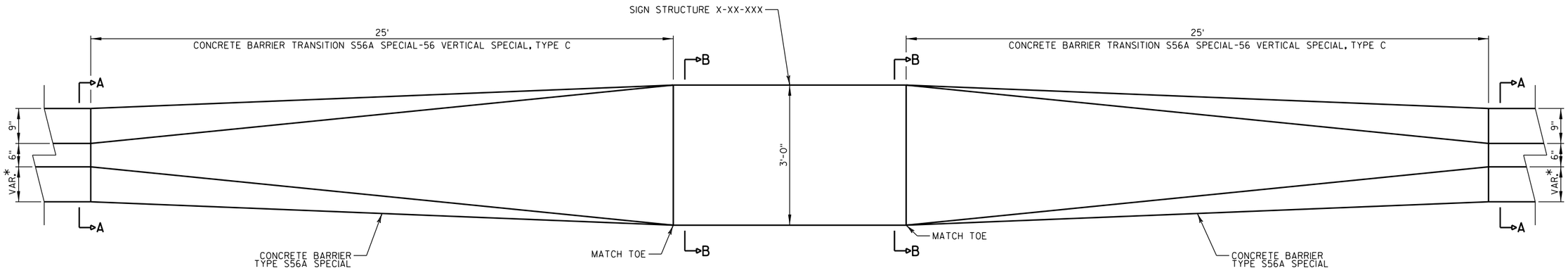
*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

CONCRETE BARRIER TRANSITION S56A SPECIAL-56 VERTICAL SPECIAL, TYPE C

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



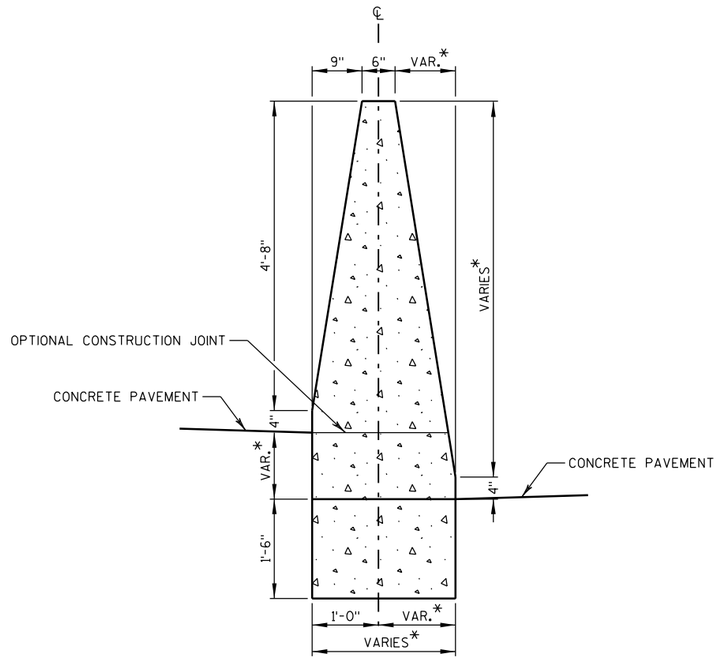


*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

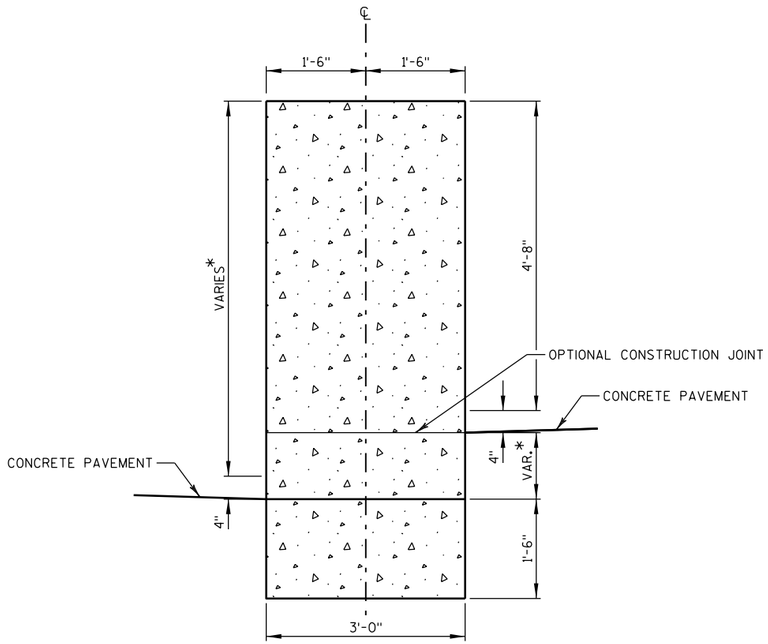
CONCRETE BARRIER TRANSITION S56A SPECIAL-56 VERTICAL SPECIAL, TYPE C

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



SECTION A-A



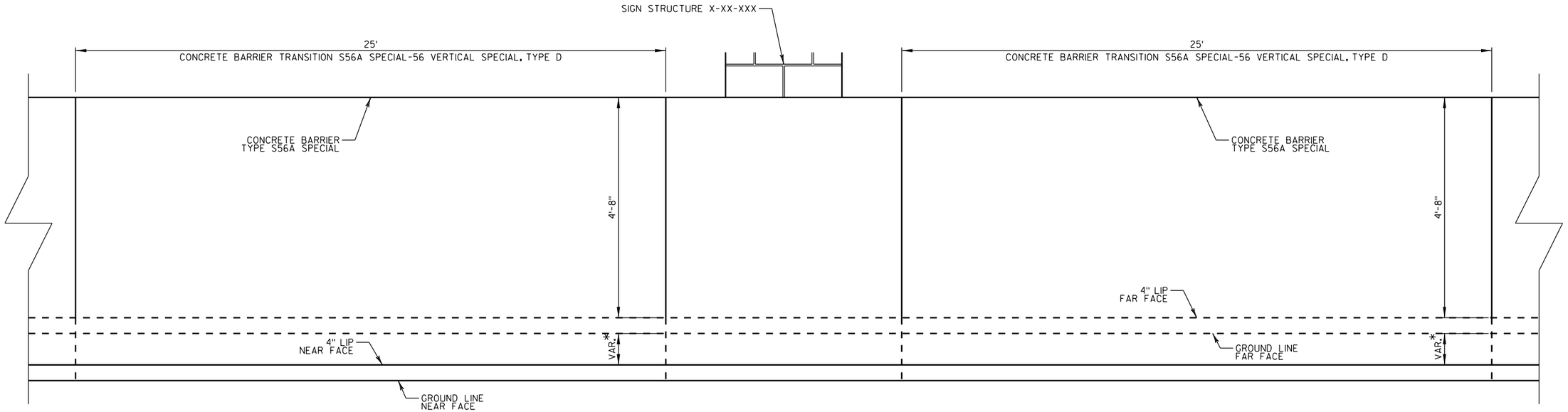
SECTION B-B

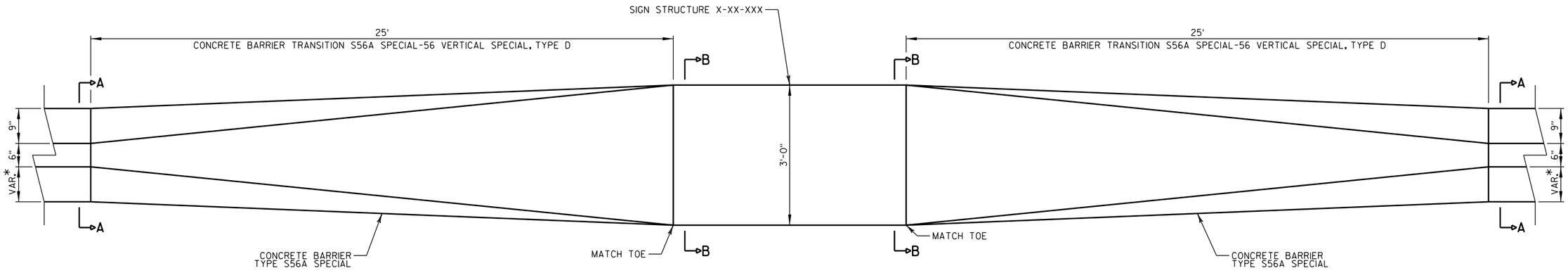
*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

CONCRETE BARRIER TRANSITION S56A SPECIAL-56 VERTICAL SPECIAL, TYPE D

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



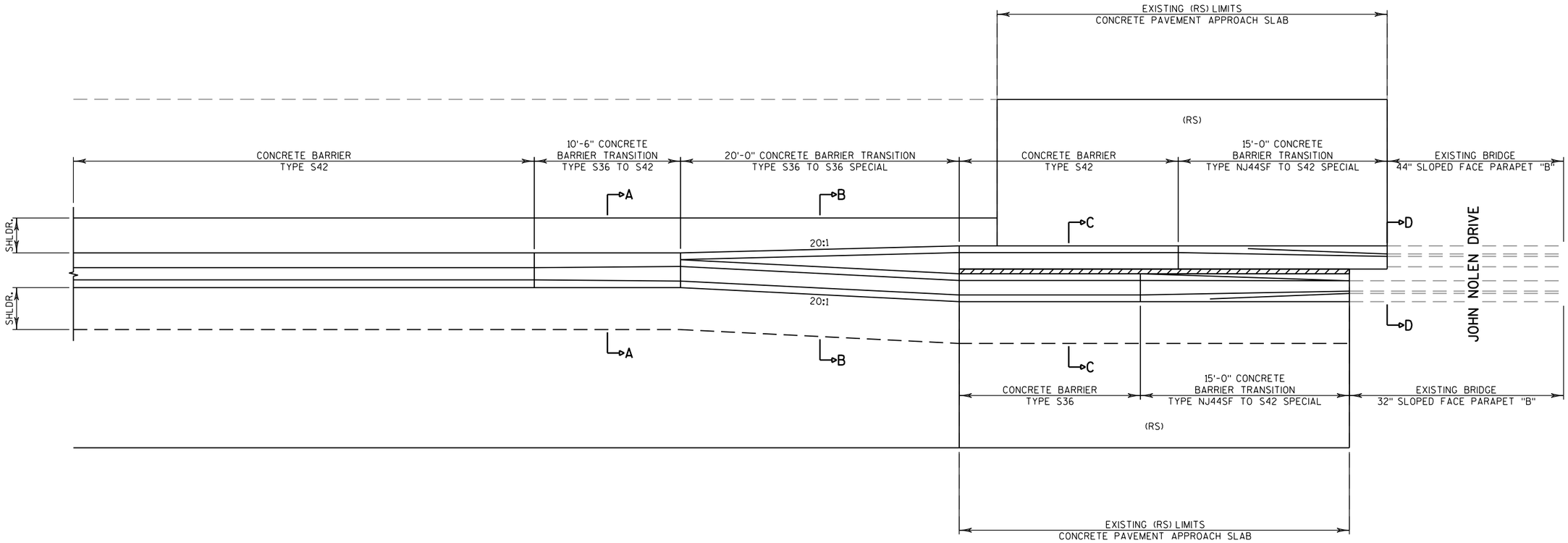


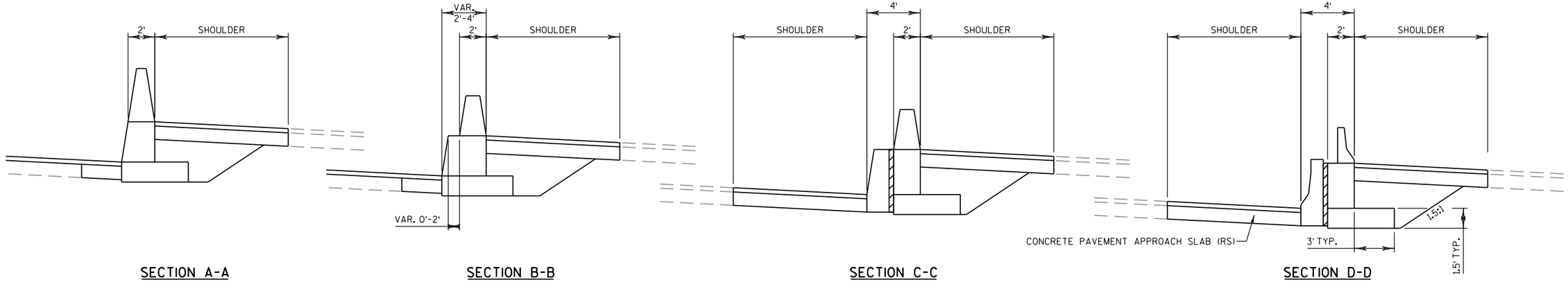
*SEE TABLES ON PLAN DETAILS FOR CONCRETE BARRIER DIMENSIONS

CONCRETE BARRIER TRANSITION S56A SPECIAL-56 VERTICAL SPECIAL, TYPE D

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2





SECTION A-A

SECTION B-B

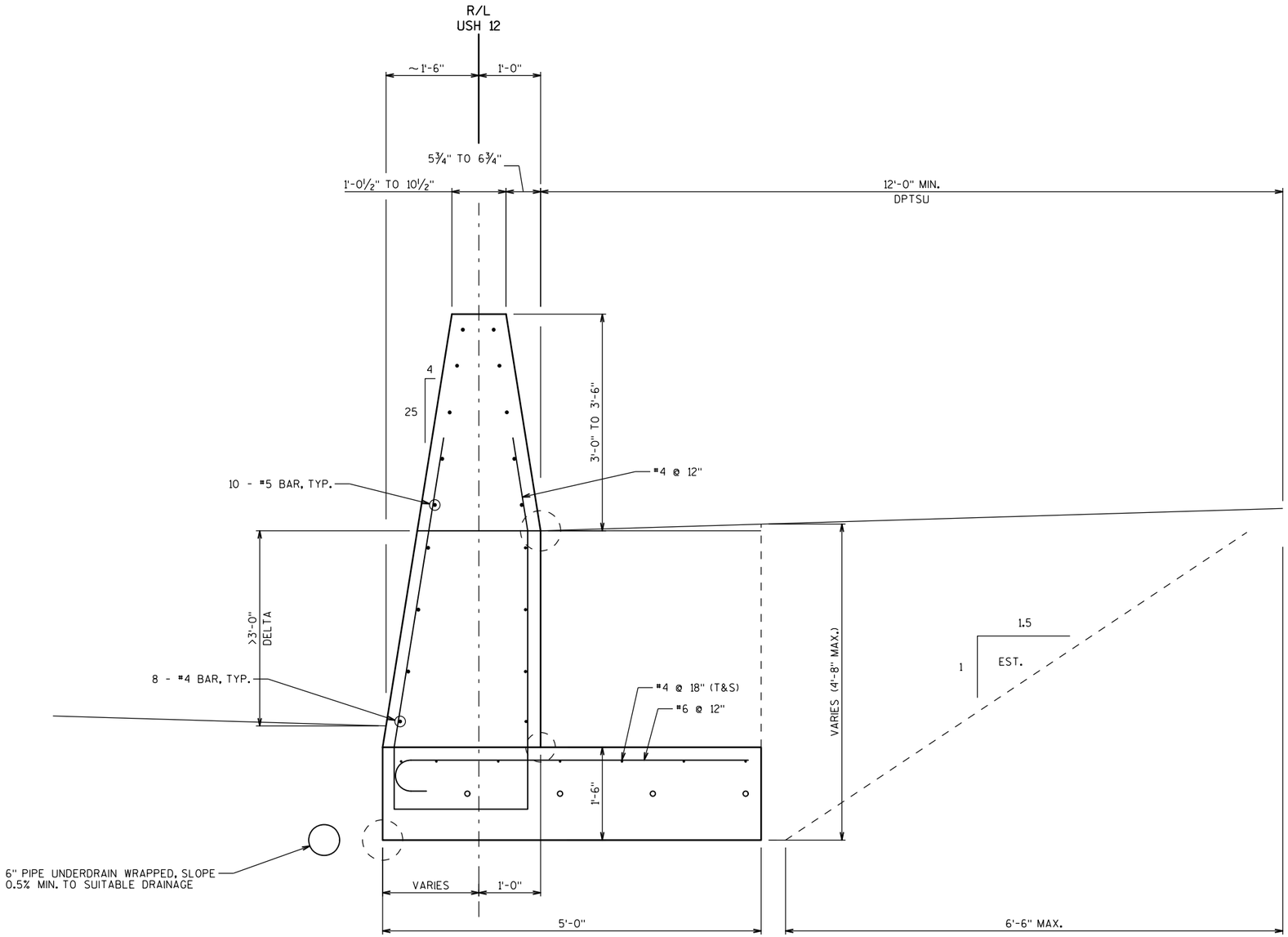
SECTION C-C

SECTION D-D

CONCRETE BARRIER TRANSITION AT JOHN NOLEN DRIVE

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2

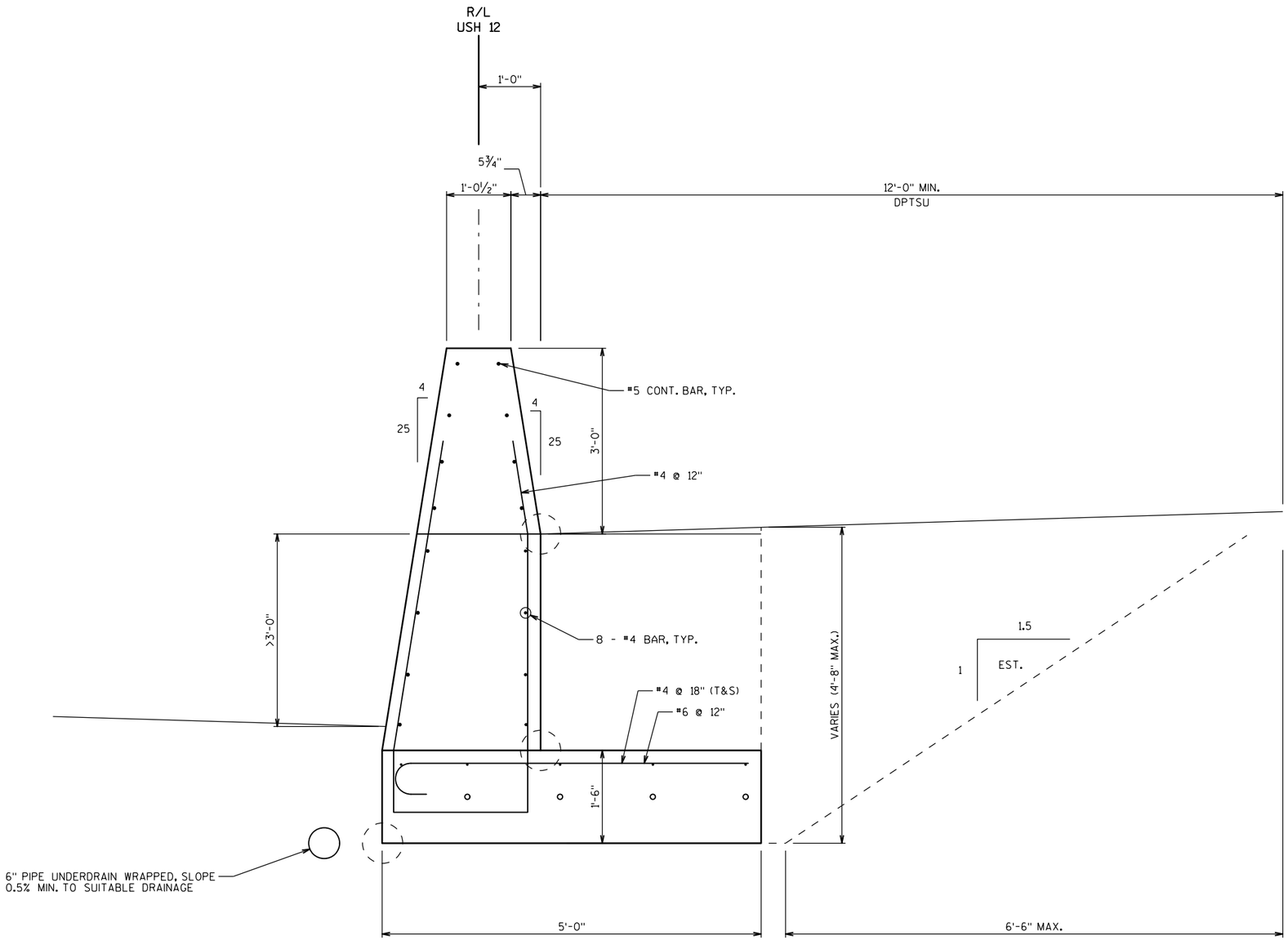


BAR DETAIL - SECTION A-A

CONCRETE BARRIER TRANSITION AT JOHN NOLEN DRIVE

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2

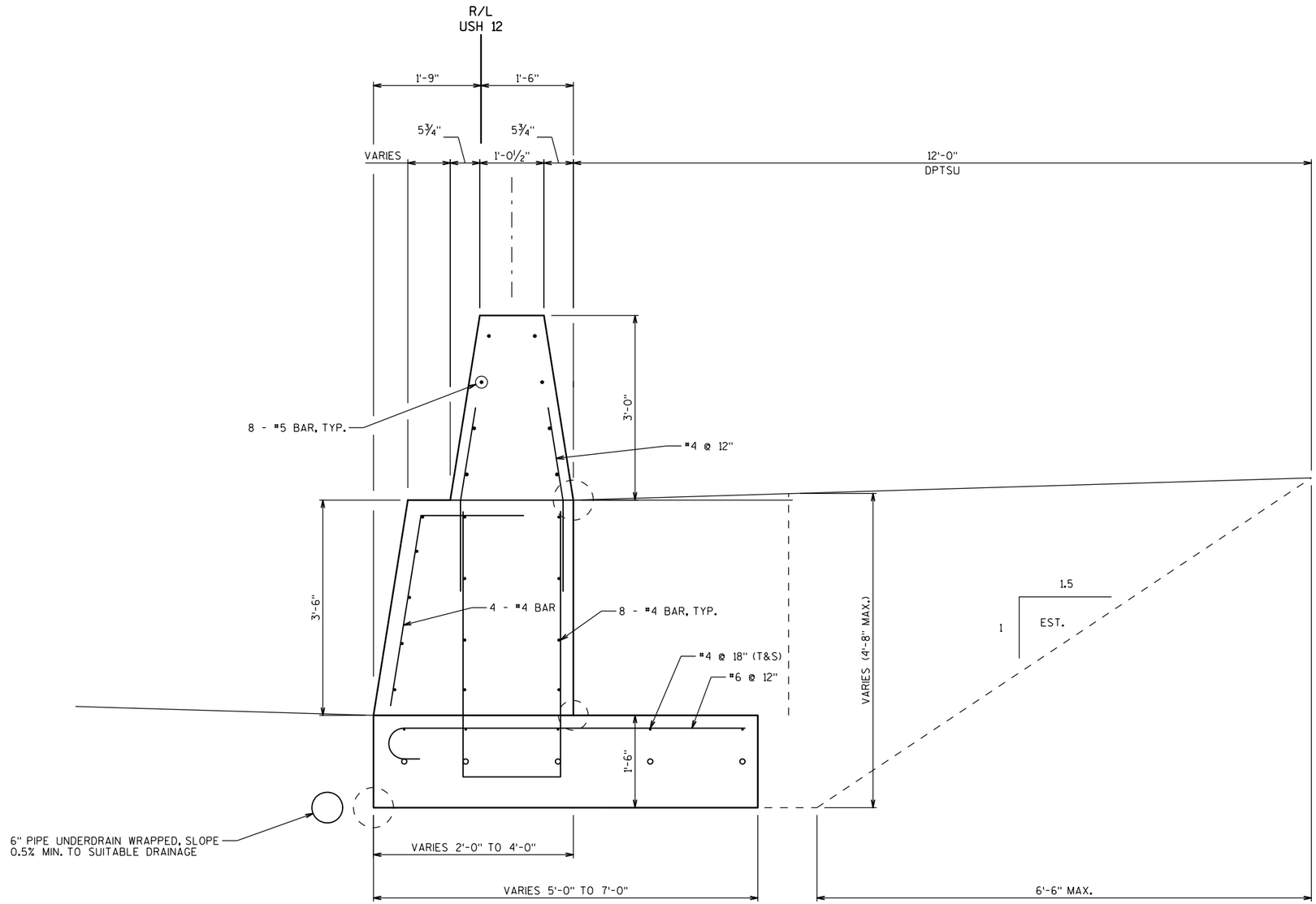


BAR DETAIL - SECTION A1-A1 (A-B INTERFACE)

CONCRETE BARRIER TRANSITION AT JOHN NOLEN DRIVE

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2

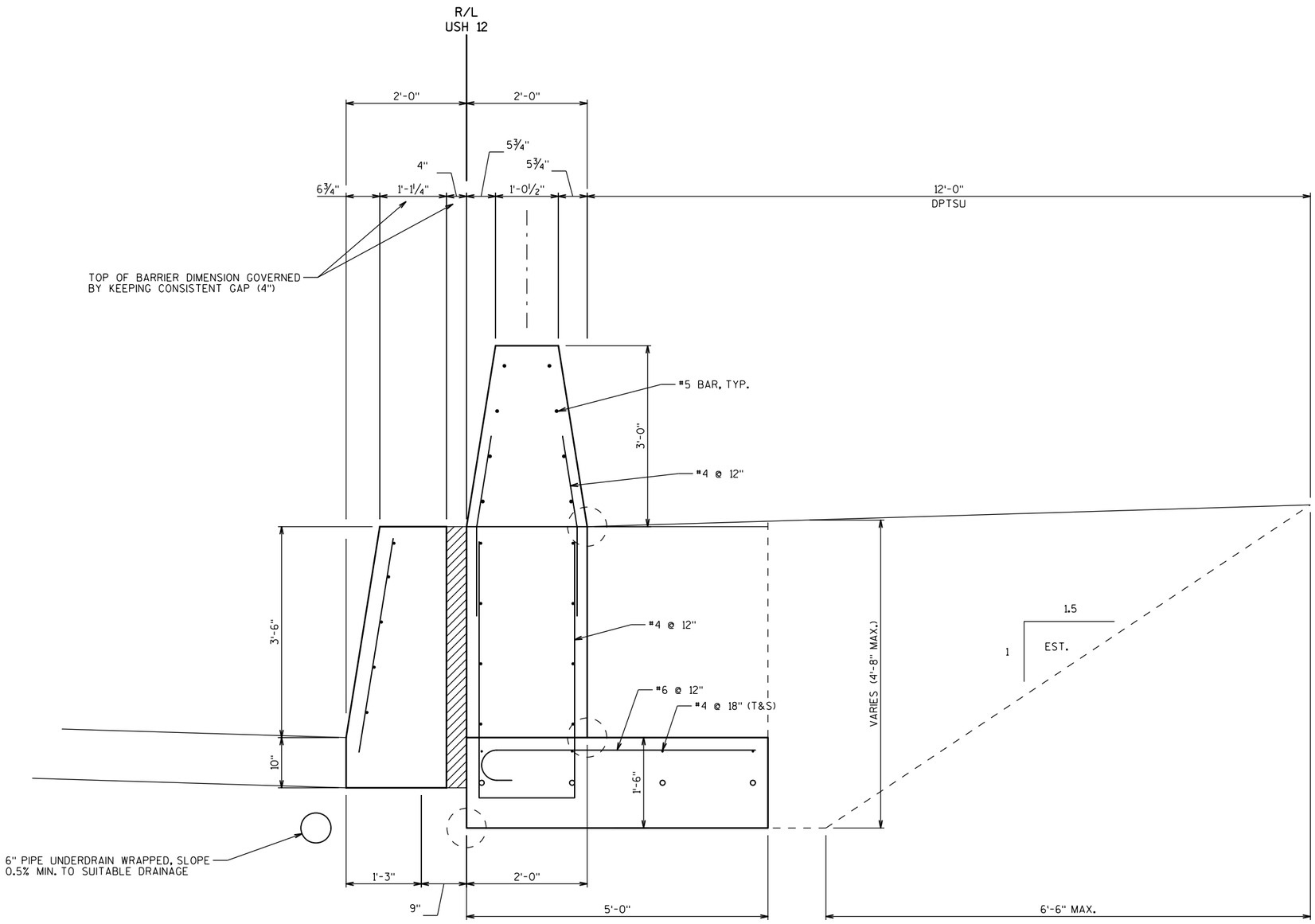


BAR DETAIL - SECTION B-B

CONCRETE BARRIER TRANSITION AT JOHN NOLEN DRIVE

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2

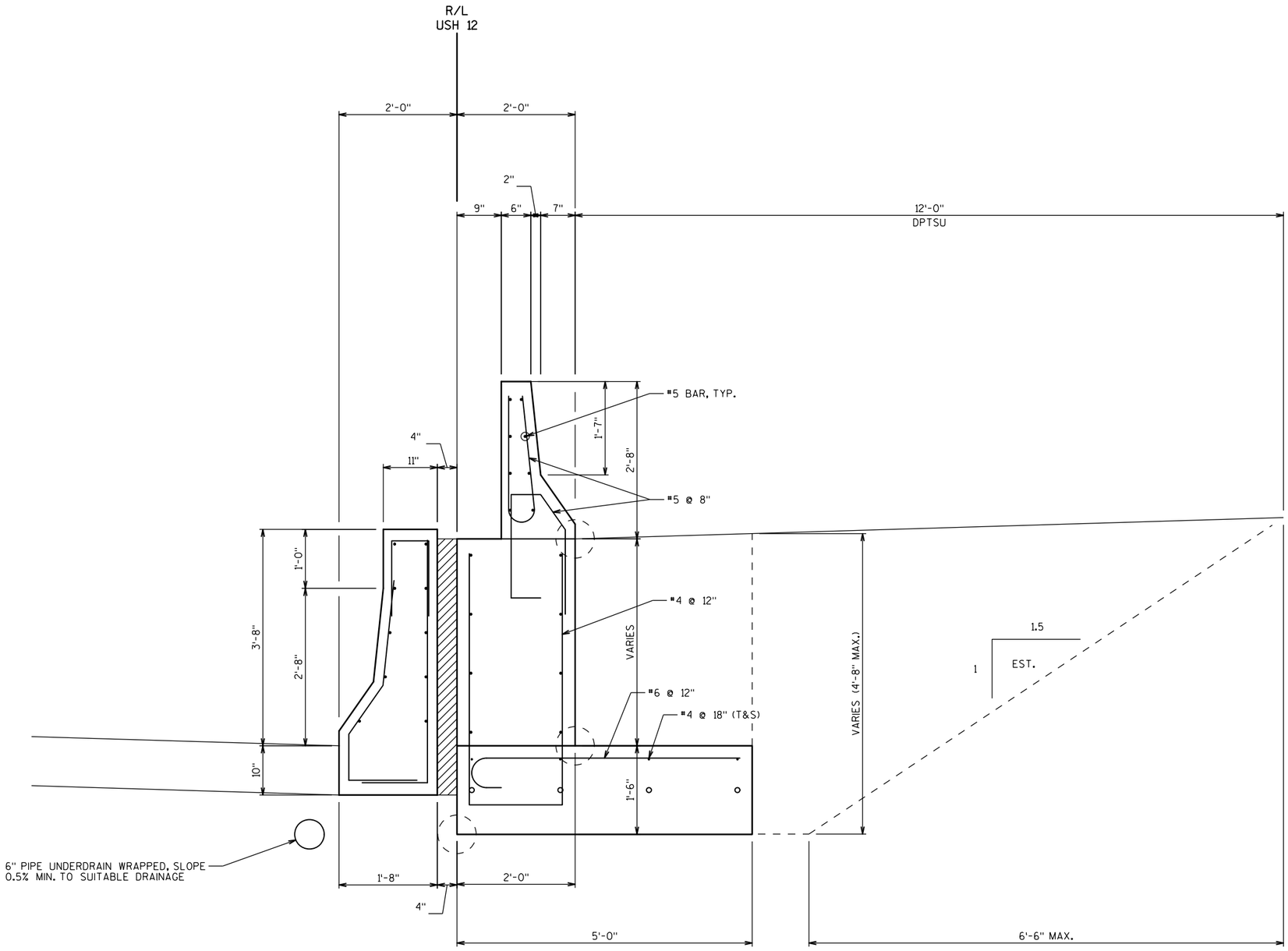


BAR DETAIL - SECTION C-C

CONCRETE BARRIER TRANSITION AT JOHN NOLEN DRIVE

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2

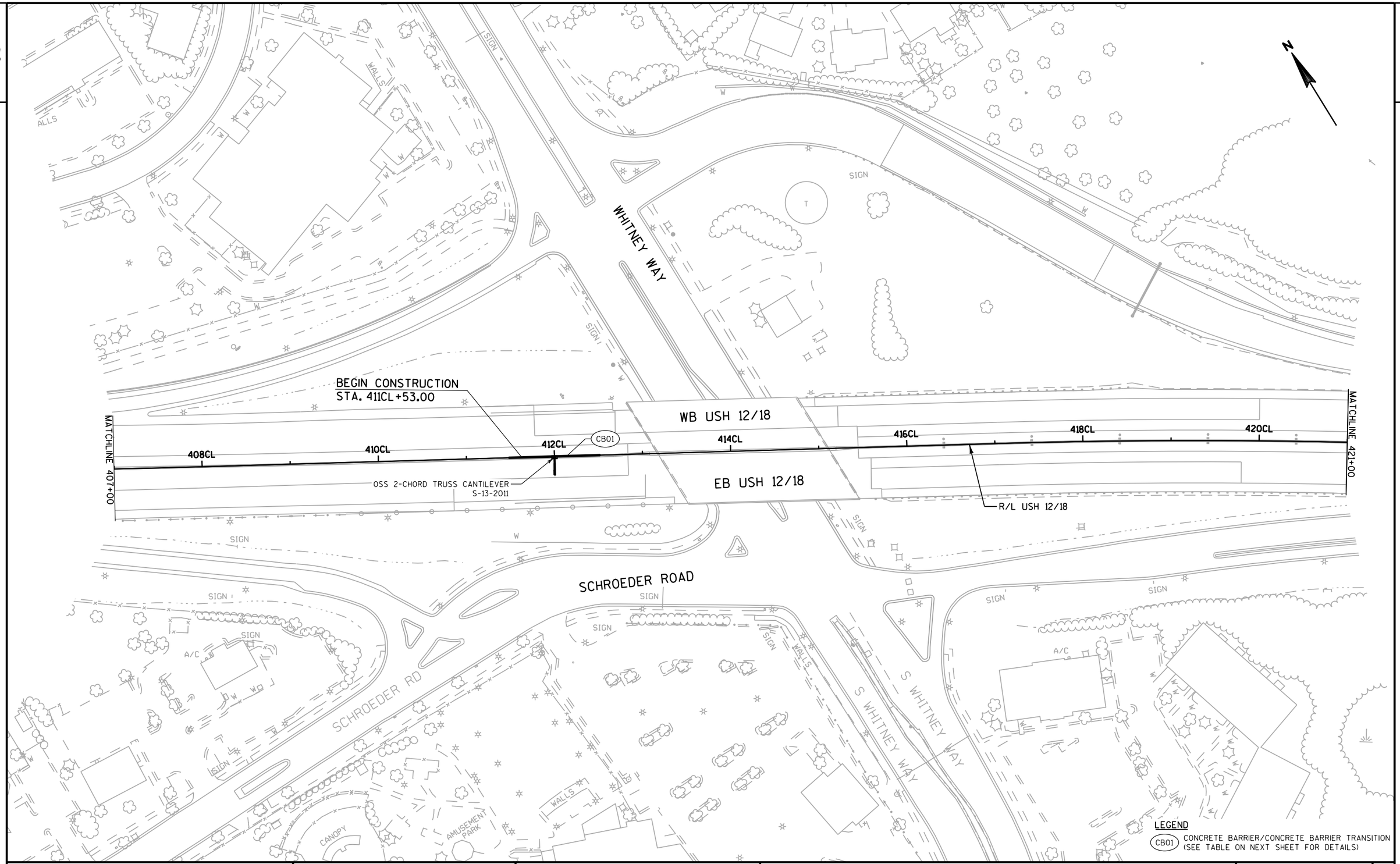


BAR DETAIL - SECTION D-D

CONCRETE BARRIER TRANSITION AT JOHN NOLEN DRIVE

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	CONSTRUCTION DETAILS	SHEET	E

2



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

MEDIAN BARRIER				
STATION - STATION			LENGTH (FEET)	BARRIER TYPE
411CL+63.00	-	411CL+87.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42A TO S56A
411CL+87.50	-	412CL+12.50	25.00	CONCRETE BARRIER TRANSITION S56A-56A VERTICAL SPECIAL
412CL+12.50	-	412CL+17.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 412CL+15)
412CL+17.50	-	412CL+42.50	25.00	CONCRETE BARRIER TRANSITION S56A-56A VERTICAL SPECIAL
412CL+42.50	-	412CL+67.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42A TO S56A
415CL+19.00	-	432CL+42.00	1,723.00	EXISTING CONCRETE BARRIER TYPE S42A

2

N

GOLF COURSE

MATCHLINE 421+00

422CL

424CL

426CL

428CL

430CL

432CL

434CL

WB USH 12/18

EB USH 12/18

R/L USH 12/18

OSS 2-CHORD TRUSS CANTILEVER
S-13-2012

CB01

MATCHLINE 435+00

WALLS

WALLS

WALLS

W

W

W

W

LORUTH TER

LEGEND

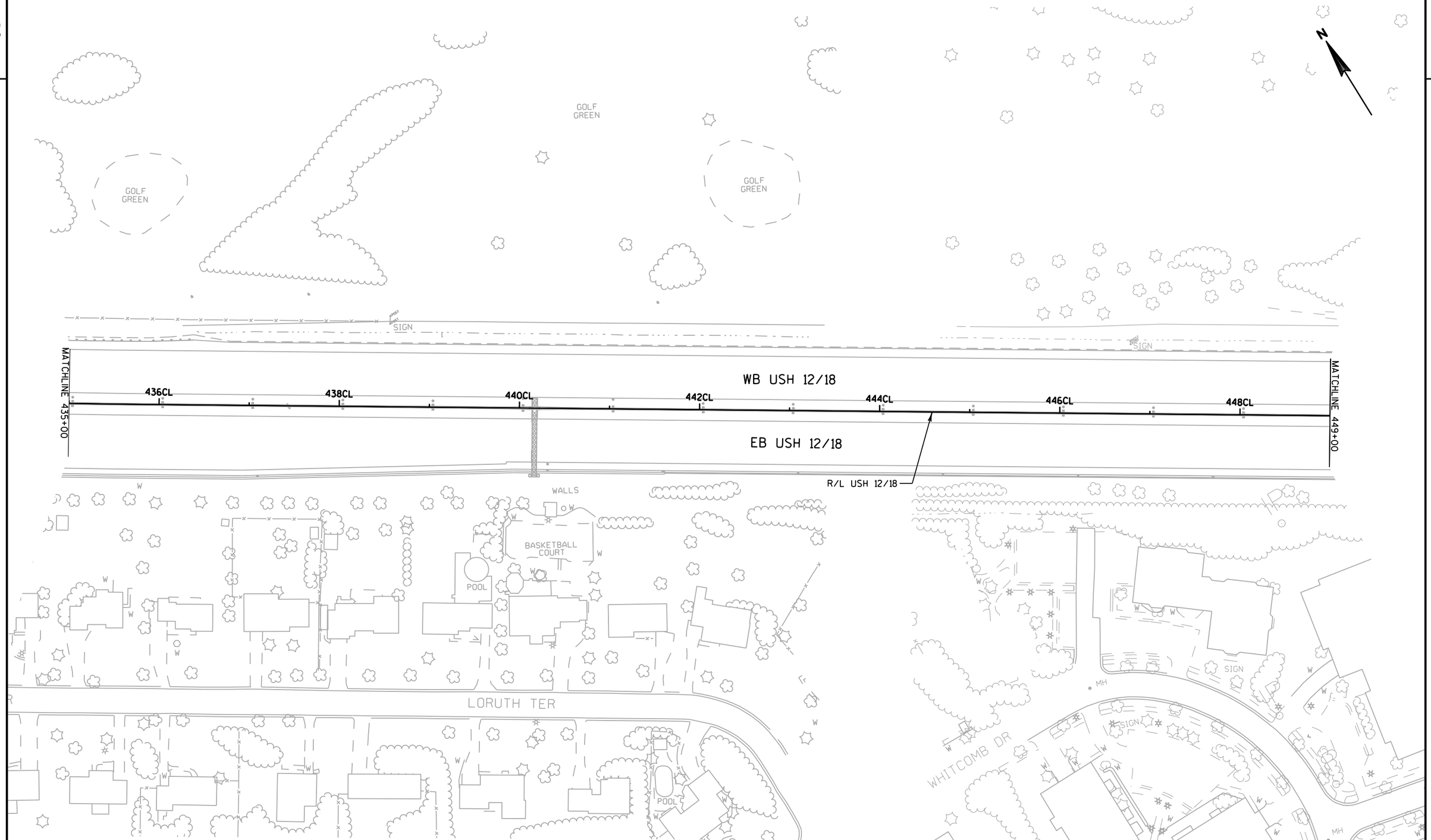
CB01 CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

2

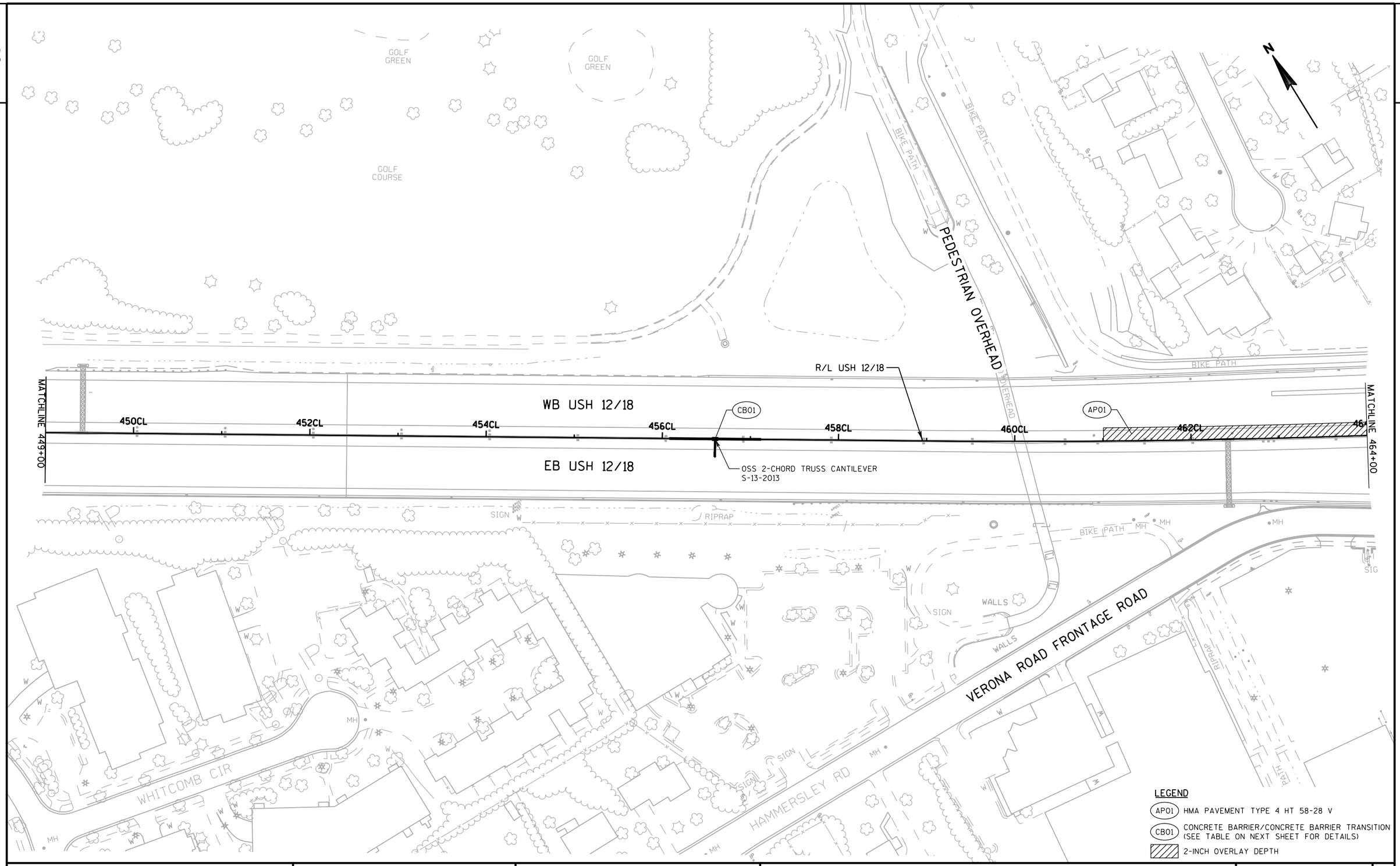
MEDIAN BARRIER				
STATION - STATION			LENGTH (FEET)	BARRIER TYPE
415CL+19.00	-	432CL+42.00	1,723.00	EXISTING CONCRETE BARRIER TYPE S42A
432CL+42.00	-	432CL+66.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42A TO S56A
432CL+66.50	-	432CL+91.50	25.00	CONCRETE BARRIER TRANSITION S56A-56A VERTICAL SPECIAL
432CL+91.50	-	432CL+96.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 432CL+94)
432CL+96.50	-	433CL+21.50	25.00	CONCRETE BARRIER TRANSITION S56A-56A VERTICAL SPECIAL
433CL+21.50	-	433CL+46.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42A TO S56A
433CL+46.00	-	458CL+03.00	2,457.00	EXISTING CONCRETE BARRIER TYPE S42A

2



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

2



LEGEND

APO1 HMA PAVEMENT TYPE 4 HT 58-28 V

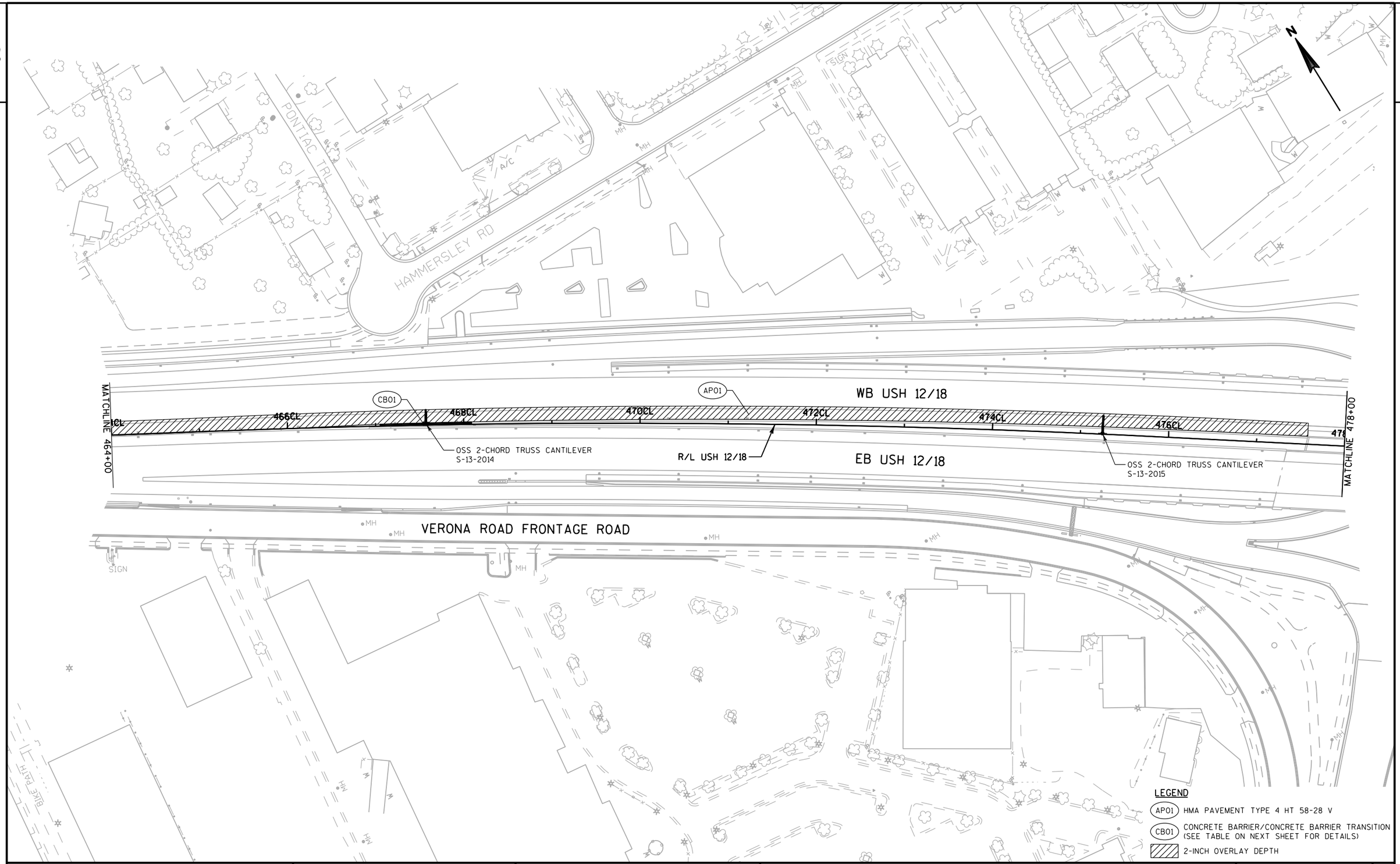
CB01 CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)

2-INCH OVERLAY DEPTH

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

MEDIAN BARRIER				
STATION - STATION			LENGTH (FEET)	BARRIER TYPE
433CL+46.00	-	458CL+03.00	2,457.00	EXISTING CONCRETE BARRIER TYPE S42A
458CL+03.00	-	458CL+27.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42A TO S56A
458CL+27.50	-	458CL+52.50	25.00	CONCRETE BARRIER TRANSITION S56A-56A VERTICAL SPECIAL
458CL+52.50	-	458CL+57.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 458CL+55)
458CL+57.50	-	458CL+82.50	25.00	CONCRETE BARRIER TRANSITION S56A-56A VERTICAL SPECIAL
458CL+82.50	-	459CL+07.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42A TO S56A
459CL+07.00	-	460CL+54.46	147.46	EXISTING CONCRETE BARRIER TYPE S42A
460CL+54.46	-	462CL+97.45	242.99	EXISTING CONCRETE BARRIER TYPE S56A
462CL+97.45	-	465CL+93.00	295.55	EXISTING CONCRETE BARRIER TYPE S42

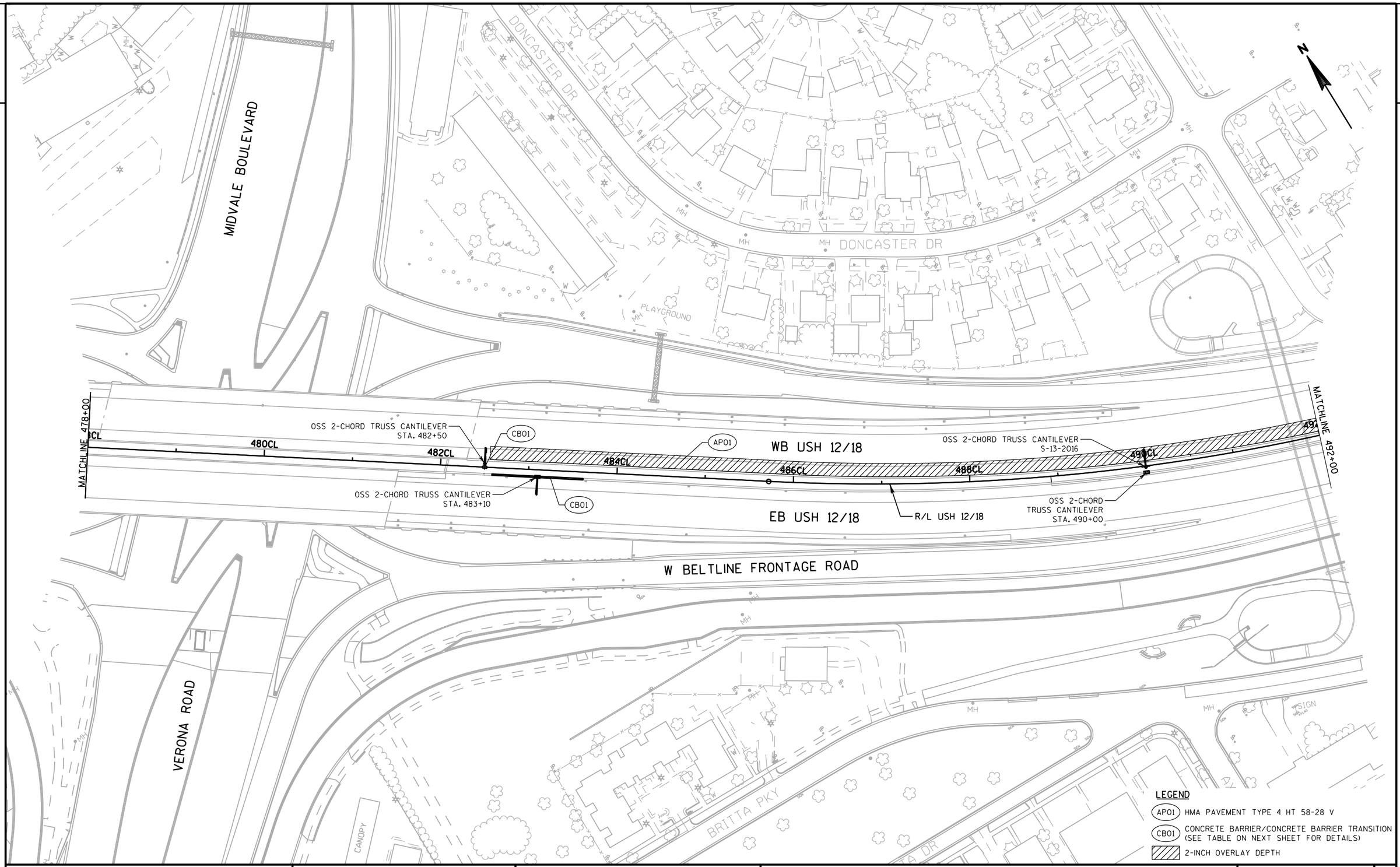
2



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

MEDIAN BARRIER				
STATION - STATION			LENGTH (FEET)	BARRIER TYPE
462CL+97.45	-	465CL+93.00	295.55	EXISTING CONCRETE BARRIER TYPE S42
465CL+93.00	-	466CL+93.00	100.00	EXISTING CONCRETE BARRIER SPECIAL TYPE B
EB BARRIER SPLIT AT 466CL+93.00				
466CL+93.00	-	475CL+25.00	832.00	EXISTING CONCRETE BARRIER TYPE S42
475CL+22.50		475CL+27.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 475+25) PLACE BETWEEN SPLIT BARRIER
475CL+25.00	-	482CL+58.00	733.00	EXISTING CONCRETE BARRIER TYPE S42
WB BARRIER SPLIT AT 466CL+93.00				
466CL+93.00	-	467CL+05.00	12.00	EXISTING CONCRETE BARRIER TYPE S42
467CL+05.00	-	467CL+29.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 TO S56
467CL+29.50	-	467CL+54.50	25.00	CONCRETE BARRIER TRANSITION S56-56 VERTICAL SPECIAL
467CL+54.50	-	467CL+59.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 467CL+57)
467CL+59.50	-	467CL+84.50	25.00	CONCRETE BARRIER TRANSITION S56-56 VERTICAL SPECIAL
467CL+84.50	-	468CL+09.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42 TO S56
468CL+09.00	-	482CL+50.00	1,441.00	EXISTING CONCRETE BARRIER TYPE S42

2



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

MEDIAN BARRIER			
STATION - STATION		LENGTH (FEET)	BARRIER TYPE
EB BARRIER SPLIT AT 466CL+93.00			
475CL+25.00	- 482CL+58.00	733.00	EXISTING CONCRETE BARRIER TYPE S42
482CL+58.00	- 482CL+82.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 TO S56
482CL+82.50	- 483CL+07.50	25.00	CONCRETE BARRIER TRANSITION S56-56VERTICAL SPECIAL
483CL+07.50	- 483CL+12.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 483CL+10)
483CL+12.50	- 483CL+37.50	25.00	CONCRETE BARRIER TRANSITION S56-56VERTICAL SPECIAL
483CL+37.50	- 483CL+62.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42 TO S56
483CL+62.00	- 488CL+92.00	530.00	EXISTING CONCRETE BARRIER TYPE S42
488CL+92.00	- 498CL+10.00	918.00	EXISTING CONCRETE BARRIER TYPE S42C
WB BARRIER SPLIT AT 466CL+93.00			
468CL+09.00	- 482CL+50.00	1,441.00	EXISTING CONCRETE BARRIER TYPE S42
482CL+47.50	- 482CL+52.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 482+50) PLACE BETWEEN SPLIT BARRIER
482CL+50.00	- 498CL+10.00	1,560.00	EXISTING CONCRETE BARRIER TYPE S42

2

2

N

WARWICK WAY

MATCHLINE 492+00

494CL

496CL

498CL

500CL

502CL

504CL

OSS 2-CHORD
TRUSS CANTILEVER
S-13-2017

MATCHLINE 506+00

AP01

CB01

WB USH 12/18

EB USH 12/18

R/L USH 12/18

W BELTLINE FRONTAGE ROAD

PI 494+07.57

LEGEND

AP01 HMA PAVEMENT TYPE 4 HT 58-28 V

CB01 CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)

2-INCH OVERLAY DEPTH

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\021208_pd.dgn PLOT DATE : 2/20/2020 12:29:46 PM PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

MEDIAN BARRIER				
STATION - STATION			LENGTH (FEET)	BARRIER TYPE
EB BARRIER SPLIT AT 466CL+93.00				
488CL+92.00	-	498CL+10.00	918.00	EXISTING CONCRETE BARRIER TYPE S42C
WB BARRIER SPLIT AT 466CL+93.00				
482CL+50.00	-	498CL+10.00	1,560.00	EXISTING CONCRETE BARRIER TYPE S42
END BARRIER SPLIT AT 498CL+10				
498CL+10.00	-	500CL+97.00	287.00	EXISTING CONCRETE BARRIER SPECIAL TYPE D
498CL+68.50	-	503CL+54.50	486.00	EXISTING CONCRETE BARRIER TYPE S56A
503CL+54.50	-	503CL+79.50	25.00	CONCRETE BARRIER TRANSITION S56A-56A VERTICAL SPECIAL
503CL+79.50	-	503CL+84.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 503+82)
503CL+84.50	-	504CL+09.50	25.00	CONCRETE BARRIER TRANSITION S56A-56A VERTICAL SPECIAL
504CL+09.50	-	508CL+72.75	463.25	EXISTING CONCRETE BARRIER TYPE S56A

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SEMINOLE HIGHWAY

SEMINOLE HIGHWAY NE RAMP

BEGIN PROJECT
STA. 512CL+86.25

WB USH 12/18

EB USH 12/18

R/L USH 12/18

BELTLINE FRONTAGE ROAD

MATCHLINE 506+00

MATCHLINE 520+00

506CL 508CL 510CL 512CL 514CL 516CL 518CL 520CL

AP01 CB01

SIGN MH INL W

153

LEGEND

AP01 HMA PAVEMENT TYPE 4 HT 58-28 V

CB01 CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)

1.75-INCH OVERLAY DEPTH

2-INCH OVERLAY DEPTH

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\021209_pd.dgn PLOT DATE : 2/20/2020 12:29:50 PM PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

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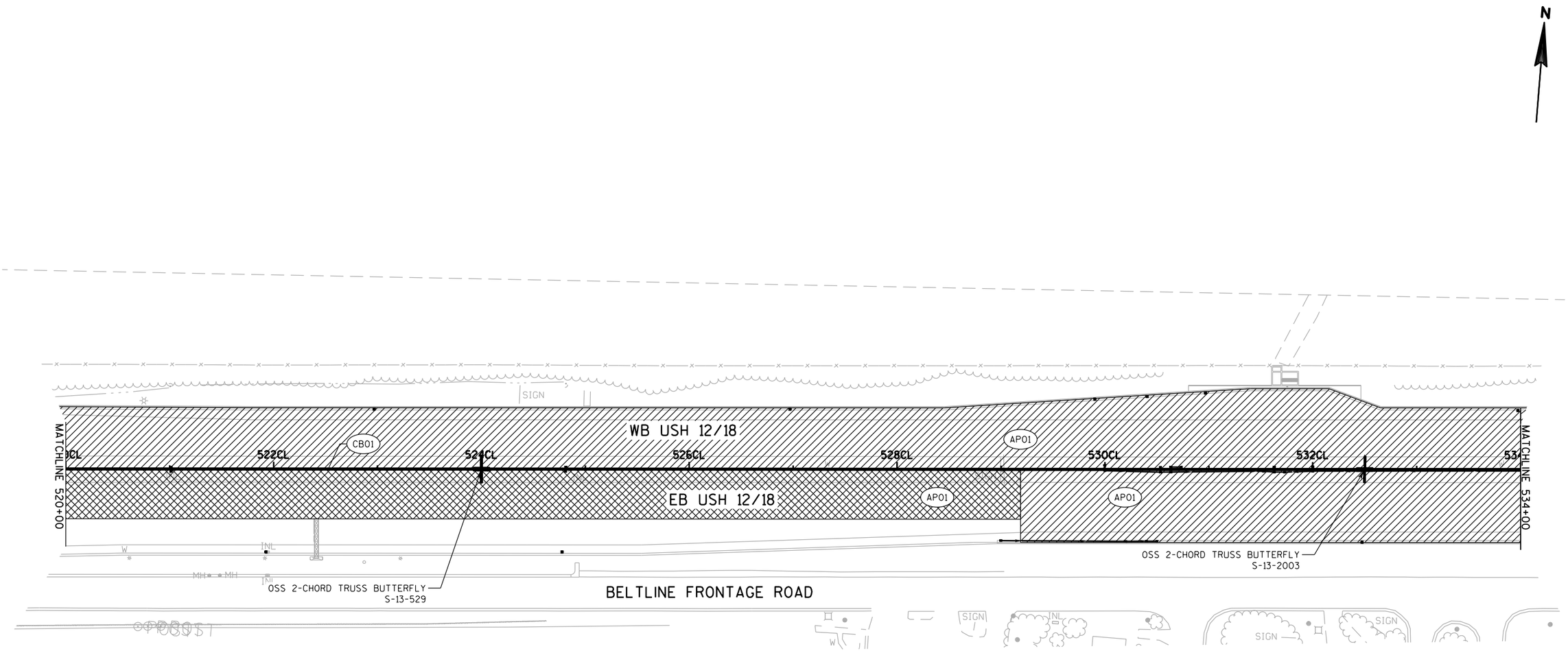
MEDIAN BARRIER

STATION - STATION			LENGTH (FEET)	BARRIER TYPE
504CL+09.50	-	508CL+72.75	463.25	EXISTING CONCRETE BARRIER TYPE S56A
508CL+72.25	-	508CL+96.75	24.50	EXISTING CONCRETE BARRIER TRANSITION TYPE S42A TO S56A
508CL+96.75	-	515CL+65.75	669.00	EXISTING CONCRETE BARRIER TYPE S42A
515CL+65.75	-	523CL+48.00	782.25	CONCRETE BARRIER TYPE S42A SPECIAL

MEDIAN TOE OF BARRIER

	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
516+00	-3.78%	-1.00	971.90	-0.02	971.88	1.00	-3.84%
516+50	-3.78%	-1.00	970.01	-0.05	969.96	1.01	-3.86%
517+00	-3.80%	-1.00	968.12	-0.09	968.03	1.01	-3.88%
517+50	-3.80%	-1.00	966.22	-0.13	966.09	1.02	-3.88%
518+00	-3.92%	-1.00	964.32	-0.17	964.15	1.03	-3.88%
518+50	-3.90%	-1.00	962.36	-0.15	962.21	1.02	-3.88%
519+00	-3.90%	-1.00	960.41	-0.14	960.27	1.02	-3.88%
519+50	-3.96%	-1.00	958.46	-0.13	958.33	1.02	-3.90%
520+00	-3.92%	-1.00	956.48	-0.10	956.38	1.02	-3.90%

2



LEGEND

- (AP01) HMA PAVEMENT TYPE 4 HT 58-28 V
- (CB01) CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- 1.75-INCH OVERLAY DEPTH
- 2-INCH OVERLAY DEPTH

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

2

MEDIAN BARRIER

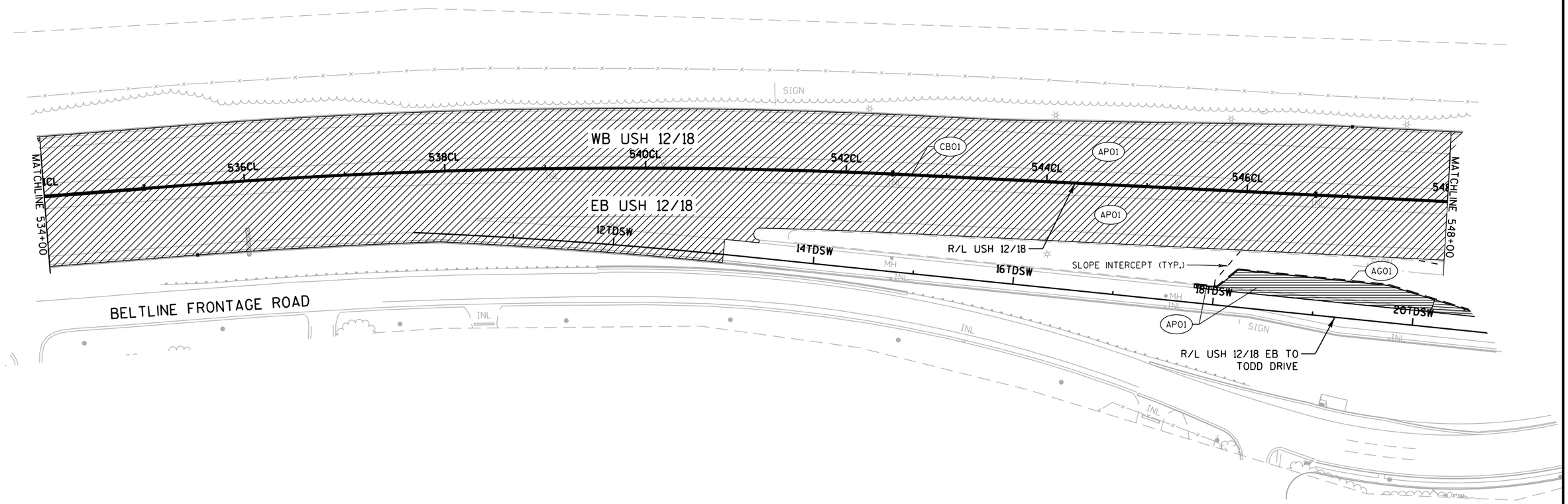
STATION - STATION			LENGTH (FEET)	BARRIER TYPE
515CL+65.75	-	523CL+48.00	782.25	CONCRETE BARRIER TYPE S42A SPECIAL
523CL+48.00	-	523CL+72.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
523CL+72.50	-	523CL+97.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
523CL+97.50	-	524CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 524CL+00)
524CL+02.50	-	524CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
524CL+27.50	-	524CL+52.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
524CL+52.00	-	531CL+98.00	746.00	CONCRETE BARRIER TYPE S42A SPECIAL
531CL+98.00	-	532CL+22.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
532CL+22.50	-	532CL+47.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
532CL+47.50	-	532CL+52.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 532CL+50)
532CL+52.50	-	532CL+77.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
532CL+77.50	-	547CL+53.50	1,476.00	CONCRETE BARRIER TYPE S56A SPECIAL

MEDIAN TOE OF BARRIER

	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
520+00	-3.92%	-1.00	956.48	-0.10	956.38	1.02	-3.90%
520+50	-3.86%	-1.00	954.52	-0.09	954.43	1.01	-3.86%
521+00	-3.88%	-1.00	952.59	-0.09	952.50	1.01	-3.86%
521+50	-3.88%	-1.00	950.65	-0.08	950.57	1.01	-3.98%
522+00	-3.94%	-1.00	948.71	-0.13	948.58	1.02	-3.98%
522+50	-3.92%	-1.00	946.74	-0.15	946.59	1.02	-3.84%
523+00	-3.86%	-1.00	944.78	-0.11	944.67	1.02	-3.84%
523+50	-3.78%	-1.00	942.85	-0.10	942.75	1.02	-3.86%
524+00	-3.80%	-1.00	940.96	-0.14	940.82	1.02	-3.84%
524+50	-3.84%	-1.00	939.06	-0.16	938.90	1.02	-3.80%
525+00	-3.84%	-1.00	937.14	-0.14	937.00	1.02	-3.80%
525+50	-3.84%	-1.00	935.22	-0.12	935.10	1.02	-3.74%
526+00	-3.88%	-1.00	933.30	-0.07	933.23	1.01	-3.70%
526+50	-3.72%	-1.00	931.36	0.02	931.38	1.00	-3.22%
527+00	-3.46%	-1.04	929.50	0.27	929.77	1.00	-2.98%
527+50	-2.88%	-1.08	927.77	0.51	928.28	1.00	-2.62%
528+00	-2.54%	-1.10	926.33	0.64	926.97	1.00	-2.20%
528+50	-1.86%	-1.13	925.06	0.81	925.87	1.00	-2.02%
529+00	-1.48%	-1.12	924.13	0.73	924.86	1.00	-1.38%
529+50	-0.78%	-1.13	923.39	0.78	924.17	1.00	-1.24%
530+00	-0.38%	-1.09	923.00	0.55	923.55	1.00	-0.68%
530+50	0.30%	-1.06	922.81	0.40	923.21	1.00	-0.48%
531+00	0.38%	-1.00	922.96	0.01	922.97	1.00	-0.06%
531+50	0.52%	-1.00	923.15	-0.21	922.94	1.03	0.22%
532+00	0.64%	-1.00	923.41	-0.36	923.05	1.06	0.40%
532+50	0.68%	-1.00	923.73	-0.48	923.25	1.08	0.50%
533+00	0.54%	-1.00	924.07	-0.57	923.50	1.09	0.56%
533+50	0.52%	-1.00	924.34	-0.56	923.78	1.09	0.68%
534+00	0.52%	-1.00	924.60	-0.48	924.12	1.08	1.14%

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N



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LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT TYPE 4 HT 58-28 V
- CB01 CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- 2-INCH OVERLAY DEPTH
- 3-INCH ASPHALT SHOULDER
- 5.5-INCH ASPHALT PAVEMENT

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

2

MEDIAN BARRIER

STATION - STATION			LENGTH (FEET)	BARRIER TYPE
532CL+77.50	-	547CL+53.50	1,476.00	CONCRETE BARRIER TYPE S56A SPECIAL
547CL+53.50	-	547CL+78.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
547CL+78.50	-	547CL+83.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.547CL+81)
547CL+83.50	-	548CL+08.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL

MEDIAN TOE OF BARRIER

	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
534+00	0.52%	-1.00	924.60	-0.48	924.12	1.08	1.14%
534+50	0.54%	-1.00	924.86	-0.17	924.69	1.03	1.10%
535+00	0.50%	-1.00	925.13	0.11	925.24	0.98	0.94%
535+50	0.50%	-1.00	925.38	0.33	925.71	0.95	0.72%
536+00	0.48%	-1.00	925.63	0.44	926.07	0.93	0.58%
536+50	0.36%	-1.00	925.87	0.49	926.36	0.92	0.46%
537+00	0.18%	-1.00	926.05	0.54	926.59	0.91	0.28%
537+50	0.02%	-1.09	926.14	0.59	926.73	1.00	0.12%
538+00	-0.26%	-1.10	926.15	0.64	926.79	1.00	-0.08%
538+50	-0.56%	-1.12	926.02	0.73	926.75	1.00	-0.34%
539+00	-0.80%	-1.13	925.74	0.84	926.58	1.00	-0.62%
539+50	-1.06%	-1.15	925.34	0.93	926.27	1.00	-0.86%
540+00	-1.40%	-1.16	924.81	1.03	925.84	1.00	-1.22%
540+50	-1.60%	-1.18	924.11	1.12	925.23	1.00	-1.40%
541+00	-1.78%	-1.20	923.31	1.22	924.53	1.00	-1.56%
541+50	-1.92%	-1.21	922.42	1.33	923.75	1.00	-1.72%
542+00	-2.02%	-1.23	921.46	1.43	922.89	1.00	-2.04%
542+50	-1.94%	-1.23	920.45	1.42	921.87	1.00	-2.34%
543+00	-1.96%	-1.20	919.48	1.22	920.70	1.00	-2.48%
543+50	-1.98%	-1.15	918.50	0.96	919.46	1.00	-2.60%
544+00	-2.02%	-1.11	917.51	0.65	918.16	1.00	-2.18%
544+50	-2.02%	-1.09	916.50	0.57	917.07	1.00	-2.14%
545+00	-2.00%	-1.08	915.49	0.51	916.00	1.00	-2.00%
545+50	-2.00%	-1.08	914.49	0.51	915.00	1.00	-1.94%
546+00	-2.04%	-1.09	913.49	0.54	914.03	1.00	-1.96%
546+50	-2.04%	-1.09	912.47	0.58	913.05	1.00	-1.96%
547+00	-2.04%	-1.10	911.45	0.62	912.07	1.00	-2.00%
547+50	-2.00%	-1.10	910.43	0.64	911.07	1.00	-1.98%
548+00	-2.00%	-1.11	909.43	0.65	910.08	1.00	-1.98%

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TODD DRIVE WB ON-RAMP

WB USH 12/18

EB USH 12/18

MATCHLINE 548+00

MATCHLINE 563+00

550CL

552CL

554CL

556CL

558CL

560CL

562CL

BG13

BG10

BG11

AP01

CB01

CP02

BG12

SLOPE INTERCEPT (TYP.)

AG01

R/L USH 12/18

OSS 2-CHORD TRUSS BUTTERFLY
S-13-2004

BELTLINE FRONTAGE ROAD

22TDSW

R/L USH 12/18 EB TO
TODD DRIVE

TODD DRIVE

SERV

SIGN

INL

MH

151

LEGEND

- AG01 BASE AGGREGATE DENSE 3/4-INCH
- AP01 HMA PAVEMENT TYPE 4 HT 58-28 V
- BG10 MGS GUARDRAIL 3
- BG11 MGS THRIE BEAM TRANSITION
- BG12 MGS GUARDRAIL TERMINAL EAT
- BG13 MGS GUARDRAIL TERMINAL TYPE 2
- CB01 CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- CP02 REINFORCED CONCRETE PAVEMENT APPROACH SLABS
- 2-INCH OVERLAY DEPTH
- 3-INCH ASPHALT SHOULDER
- 6-INCH ASPHALT PAVEMENT

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\021212_pd.dgn PLOT DATE : 2/20/2020 12:30:55 PM PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

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MEDIAN BARRIER

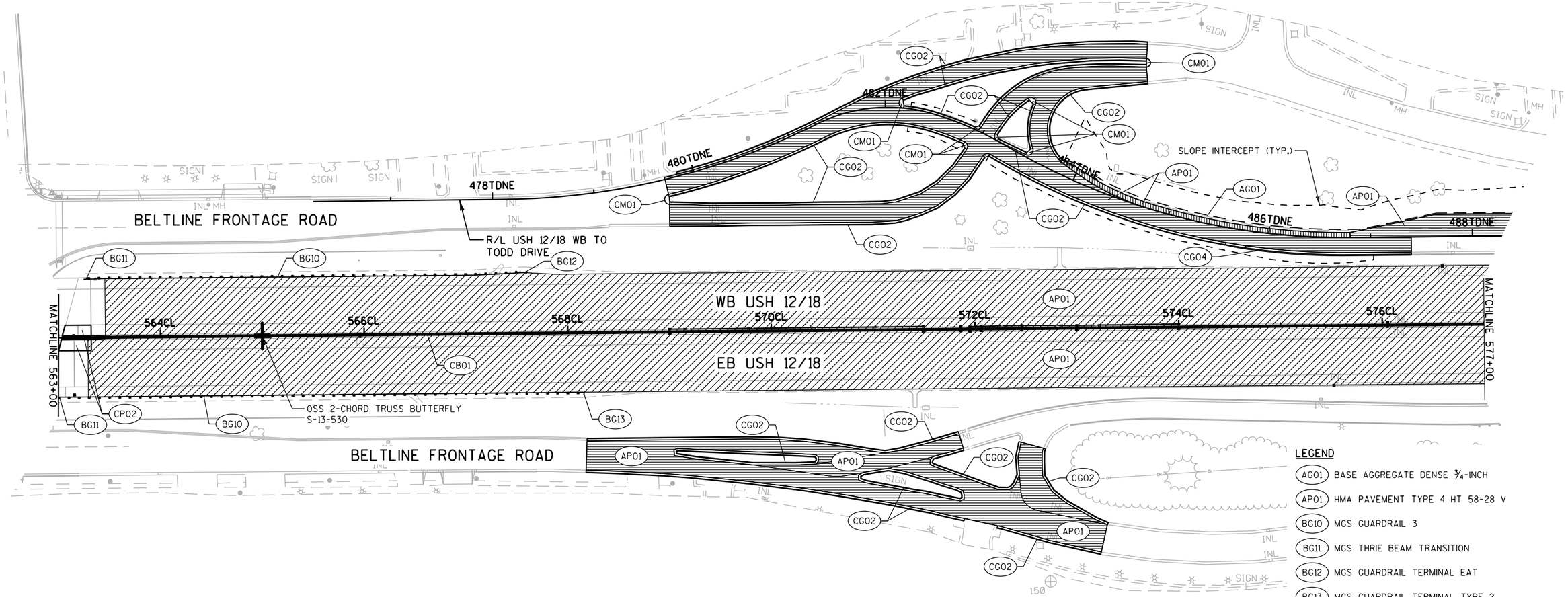
STATION - STATION			LENGTH (FEET)	BARRIER TYPE
547CL+83.50	-	548CL+08.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
548CL+08.50	-	548CL+33.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
548CL+33.00	-	555CL+50.00	717.00	CONCRETE BARRIER TYPE S42A SPECIAL
555CL+50.00	-	556CL+23.00	73.00	CONCRETE BARRIER TYPE S42 SPECIAL
556CL+23.00	-	556CL+47.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
556CL+47.50	-	556CL+72.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
556CL+72.50	-	556CL+77.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 556CL+75)
556CL+77.50	-	557CL+02.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
557CL+02.50	-	557CL+27.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
557CL+27.00	-	560CL+68.74	341.74	CONCRETE BARRIER TYPE S42 SPECIAL
BEGIN TRANSITION TO TODD DRIVE BRIDGE (SEE CONSTRUCTION DETAILS FOR MORE INFORMATION)				
560CL+68.74	-	560CL+79.24	10.50	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S42 SPECIAL
560CL+79.24	-	560CL+99.24	20.00	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S36 SPECIAL SPLIT
560CL+99.24	-	561CL+14.03	14.79	CONCRETE BARRIER TYPE S36 SPECIAL, SPLIT
561CL+14.03	-	561CL+29.03	15.00	CONCRETE BARRIER TRANSITION NJ32SF TO S36 SPECIAL, SPLIT

MEDIAN TOE OF BARRIER

	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
548+00	-2.00%	-1.11	909.43	0.65	910.08	1.00	-1.98%
548+50	-2.04%	-1.11	908.43	0.66	909.09	1.00	-1.98%
549+00	-2.02%	-1.11	907.41	0.69	908.10	1.00	-2.00%
549+50	-2.04%	-1.11	906.40	0.70	907.10	1.00	-1.92%
550+00	-2.00%	-1.12	905.38	0.76	906.14	1.00	-1.92%
550+50	-1.98%	-1.13	904.38	0.80	905.18	1.00	-1.94%
551+00	-1.98%	-1.13	903.39	0.82	904.21	1.00	-1.90%
551+50	-1.98%	-1.14	902.40	0.86	903.26	1.00	-1.88%
552+00	-2.00%	-1.15	901.41	0.91	902.32	1.00	-1.96%
552+50	-2.02%	-1.15	900.41	0.93	901.34	1.00	-1.98%
553+00	-1.70%	-1.15	899.40	0.95	900.35	1.00	-1.88%
553+50	-1.62%	-1.14	898.55	0.86	899.41	1.00	-1.86%
554+00	-0.90%	-1.12	897.74	0.74	898.48	1.00	-1.28%
554+50	-0.82%	-1.09	897.29	0.55	897.84	1.00	-1.08%
555+00	-0.10%	-1.07	896.88	0.42	897.30	1.00	-0.58%
555+50	-0.04%	-1.03	896.83	0.18	897.01	1.00	-0.20%
556+00	0.84%	-1.02	896.81	0.10	896.91	1.00	0.62%
556+50	0.86%	-1.00	897.23	-0.01	897.22	1.00	0.86%
557+00	1.62%	-1.00	897.66	-0.01	897.65	1.00	1.56%
557+50	1.62%	-1.00	898.47	-0.04	898.43	1.01	1.58%
558+00	1.48%	-1.00	899.28	-0.06	899.22	1.01	1.60%
558+50	1.46%	-1.00	900.02	0.00	900.02	1.00	1.60%
559+00	1.22%	-1.01	900.75	0.07	900.82	1.00	0.98%
559+50	1.22%	-1.00	901.36	-0.05	901.31	1.01	0.96%
560+00	0.70%	-1.00	901.97	-0.18	901.79	1.03	0.90%
560+50		-1.00	902.32	-0.08	902.24	1.01	
TODD DRIVE BRIDGE B-13-263 (EB & WB)							
563+00	-0.98%	-1.02	902.28	0.09	902.37	1.00	-1.02%

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LEGEND

AG01	BASE AGGREGATE DENSE ¾-INCH
AP01	HMA PAVEMENT TYPE 4 HT 58-28 V
BG10	MGS GUARDRAIL 3
BG11	MGS THRIE BEAM TRANSITION
BG12	MGS GUARDRAIL TERMINAL EAT
BG13	MGS GUARDRAIL TERMINAL TYPE 2
CB01	CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
CG02	CONCRETE CURB AND GUTTER 30-INCH TYPE D
CG04	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D
CM01	CONCRETE MEDIAN SLOPED NOSE
CP02	REINFORCED CONCRETE PAVEMENT APPROACH SLABS
	2-INCH OVERLAY DEPTH
	3-INCH ASPHALT SHOULDER
	5.5-INCH ASPHALT PAVEMENT

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

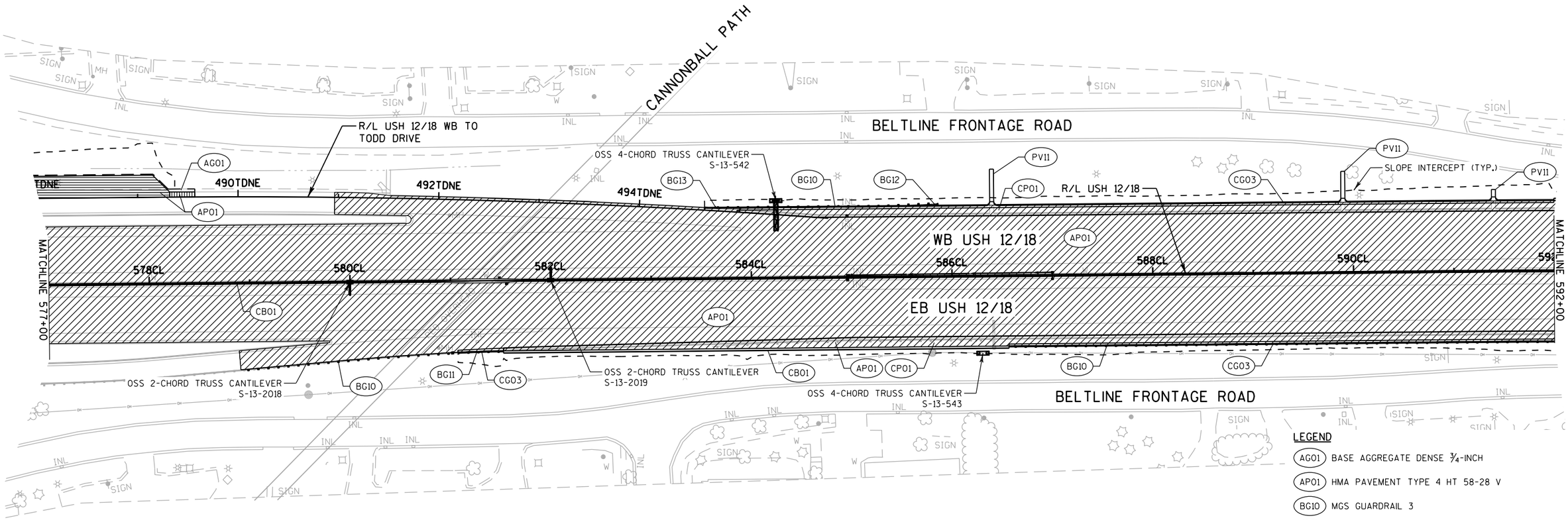
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MEDIAN BARRIER				
STATION - STATION			LENGTH (FEET)	BARRIER TYPE
561CL+14.03	-	561CL+29.03	15.00	CONCRETE BARRIER TRANSITION NJ32SF TO S36 SPECIAL, SPLIT
				TODD DRIVE BRIDGE
563CL+03.01	-	563CL+18.01	15.00	CONCRETE BARRIER TRANSITION NJ32SF TO S36 SPECIAL, SPLIT
563CL+18.01	-	563CL+31.97	13.96	CONCRETE BARRIER TYPE S36 SPECIAL, SPLIT
563CL+31.97	-	563CL+51.97	20.00	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S36 SPECIAL SPLIT
563CL+51.97	-	563CL+62.47	10.50	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S42 SPECIAL
END TRANSITION TO TODD DRIVE BRIDGE				
563CL+62.47	-	564CL+48.00	85.53	CONCRETE BARRIER TYPE S42 SPECIAL
564CL+48.00	-	564CL+72.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
564CL+72.50	-	564CL+97.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
564CL+97.50	-	565CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 565CL+00)
565CL+02.50	-	565CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
565CL+27.50	-	565CL+52.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
565CL+52.00	-	567CL+00.00	148.00	CONCRETE BARRIER TYPE S42 SPECIAL
567CL+00.00	-	579CL+48.00	1,248.00	CONCRETE BARRIER TYPE S42A SPECIAL

MEDIAN TOE OF BARRIER							
	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
TODD DRIVE BRIDGE B-13-263 (EB & WB)							
563+00	-0.98%	-1.02	902.28	0.09	902.37	1.00	-1.02%
563+50	-0.98%	-1.01	901.79	0.07	901.86	1.00	-1.04%
564+00	-1.32%	-1.01	901.30	0.04	901.34	1.00	-1.28%
564+50	-1.32%	-1.01	900.64	0.06	900.70	1.00	-1.32%
565+00	-1.78%	-1.01	899.98	0.06	900.04	1.00	-1.88%
565+50	-1.84%	-1.00	899.09	0.01	899.10	1.00	-1.90%
566+00	-2.42%	-1.00	898.17	-0.02	898.15	1.00	-2.28%
566+50	-2.42%	-1.01	896.96	0.05	897.01	1.00	-2.28%
567+00	-2.78%	-1.02	895.75	0.12	895.87	1.00	-2.62%
567+50	-2.80%	-1.03	894.36	0.20	894.56	1.00	-2.64%
568+00	-2.60%	-1.05	892.96	0.28	893.24	1.00	-2.74%
568+50	-2.62%	-1.03	891.66	0.21	891.87	1.00	-2.74%
569+00	-1.88%	-1.02	890.35	0.15	890.50	1.00	-1.90%
569+50	-1.86%	-1.02	889.41	0.14	889.55	1.00	-1.88%
570+00	-0.94%	-1.02	888.48	0.13	888.61	1.00	-0.98%
570+50	-0.92%	-1.02	888.01	0.11	888.12	1.00	-0.96%
571+00	-0.06%	-1.01	887.55	0.09	887.64	1.00	-0.04%
571+50	0.02%	-1.02	887.52	0.10	887.62	1.00	0.04%
572+00	0.62%	-1.02	887.53	0.11	887.64	1.00	0.82%
572+50	0.62%	-1.03	887.84	0.21	888.05	1.00	0.82%
573+00	0.84%	-1.05	888.15	0.31	888.46	1.00	0.98%
573+50	0.84%	-1.06	888.57	0.38	888.95	1.00	0.98%
574+00	0.90%	-1.07	888.99	0.45	889.44	1.00	0.86%
574+50	0.88%	-1.07	889.44	0.43	889.87	1.00	0.86%
575+00	0.82%	-1.07	889.88	0.42	890.30	1.00	1.22%
575+50	0.82%	-1.10	890.29	0.62	890.91	1.00	1.24%
576+00	0.94%	-1.13	890.70	0.83	891.53	1.00	1.10%
576+50	0.94%	-1.15	891.17	0.91	892.08	1.00	1.10%
577+00	0.98%	-1.16	891.64	0.99	892.63	1.00	1.42%

2

N



LEGEND

AG01	BASE AGGREGATE DENSE ¾-INCH
AP01	HMA PAVEMENT TYPE 4 HT 58-28 V
BG10	MGS GUARDRAIL 3
BG11	MGS THRIE BEAM TRANSITION
BG12	MGS GUARDRAIL TERMINAL EAT
BG13	MGS GUARDRAIL TERMINAL TYPE 2
CB01	CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
CG03	CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A
CP02	REINFORCED CONCRETE PAVEMENT APPROACH SLABS
PV11	CONCRETE SURFACE DRAINS
	2-INCH OVERLAY DEPTH
	3-INCH ASPHALT SHOULDER
	6-INCH ASPHALT PAVEMENT

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

2

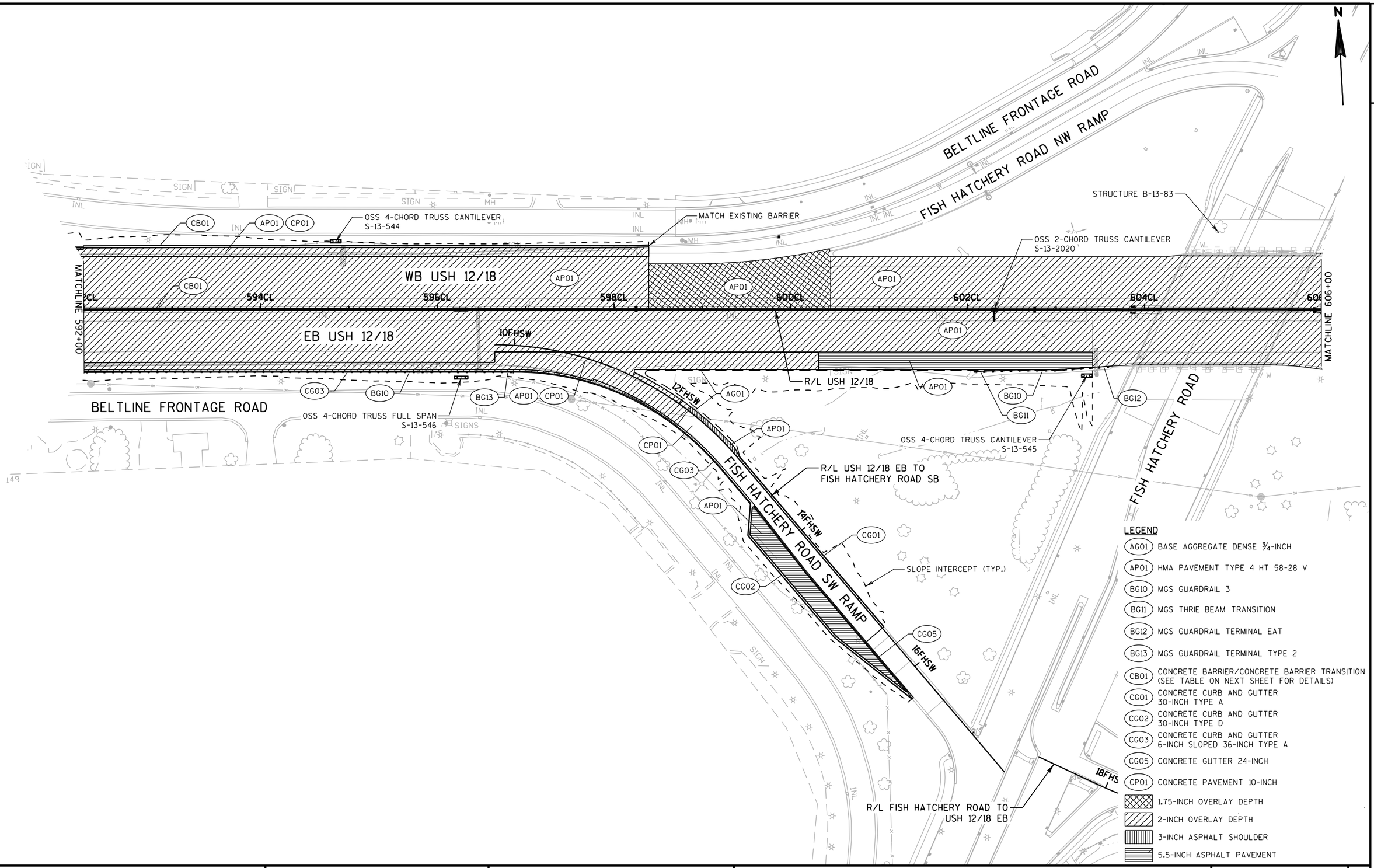
MEDIAN BARRIER

STATION - STATION			LENGTH (FEET)	BARRIER TYPE
567CL+00.00	-	579CL+48.00	1,248.00	CONCRETE BARRIER TYPE S42A SPECIAL
579CL+48.00	-	579CL+72.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
579CL+72.50	-	579CL+97.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
579CL+97.50	-	580CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 580CL+00)
580CL+02.50	-	580CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
580CL+27.50	-	580CL+66.22	38.72	CONCRETE BARRIER TYPE S56A SPECIAL
580CL+66.22	-	580CL+91.22	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
				CANNONBALL PEDESTRIAN BRIDGE PIER
581CL+70.22	-	581CL+95.22	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL

MEDIAN TOE OF BARRIER

	WB				EB		
	GRADE TO			ELEVATION			GRADE TO
STATION	NEXT STA.	OFFSET	ELEVATION	DELTA	ELEVATION	OFFSET	NEXT STA.
577+00	0.98%	-1.16	891.64	0.99	892.63	1.00	1.42%
577+50	1.00%	-1.19	892.13	1.21	893.34	1.00	1.42%
578+00	1.02%	-1.23	892.63	1.42	894.05	1.00	1.48%
578+50	1.02%	-1.26	893.14	1.65	894.79	1.00	1.46%
579+00	1.10%	-1.30	893.65	1.87	895.52	1.00	1.10%
579+50	1.08%	-1.30	894.20	1.87	896.07	1.00	1.00%
580+00	0.84%	-1.30	894.74	1.83	896.57	1.00	0.52%
580+50	0.84%	-1.27	895.16	1.67	896.83	1.00	0.54%
581+00	0.76%	-1.24	895.58	1.52	897.10	1.00	0.78%
581+50	0.76%	-1.25	895.96	1.53	897.49	1.00	0.78%
582+00	0.96%	-1.25	896.34	1.54	897.88	1.00	0.58%
582+50	0.98%	-1.22	896.82	1.35	898.17	1.00	0.56%
583+00	0.74%	-1.18	897.31	1.14	898.45	1.00	0.42%
583+50	0.74%	-1.16	897.68	0.98	898.66	1.00	0.46%
584+00	0.86%	-1.14	898.05	0.84	898.89	1.00	0.64%
584+50	0.86%	-1.12	898.48	0.73	899.21	1.00	0.64%
585+00	0.82%	-1.10	898.91	0.62	899.53	1.00	0.68%
585+50	0.82%	-1.09	899.32	0.55	899.87	1.00	0.70%
586+00	0.80%	-1.08	899.73	0.49	900.22	1.00	0.74%
586+50	0.80%	-1.07	900.13	0.46	900.59	1.00	0.72%
587+00	0.64%	-1.07	900.53	0.42	900.95	1.00	0.52%
587+50	0.64%	-1.06	900.85	0.36	901.21	1.00	0.52%
588+00	0.40%	-1.05	901.17	0.30	901.47	1.00	0.36%
588+50	0.40%	-1.04	901.37	0.28	901.65	1.00	0.34%
589+00	0.26%	-1.04	901.57	0.25	901.82	1.00	0.16%
589+50	0.26%	-1.03	901.70	0.20	901.90	1.00	0.12%
590+00	0.06%	-1.02	901.83	0.13	901.96	1.00	0.02%
590+50	0.06%	-1.02	901.86	0.11	901.97	1.00	0.00%
591+00	-0.24%	-1.01	901.89	0.08	901.97	1.00	-0.28%
591+50	-0.22%	-1.01	901.77	0.06	901.83	1.00	-0.30%
592+00	-0.38%	-1.00	901.66	0.02	901.68	1.00	-0.36%

2



LEGEND

- AG01 BASE AGGREGATE DENSE ¾-INCH
- AP01 HMA PAVEMENT TYPE 4 HT 58-28 V
- BG10 MGS GUARDRAIL 3
- BG11 MGS THRIE BEAM TRANSITION
- BG12 MGS GUARDRAIL TERMINAL EAT
- BG13 MGS GUARDRAIL TERMINAL TYPE 2
- CB01 CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- CG01 CONCRETE CURB AND GUTTER 30-INCH TYPE A
- CG02 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG03 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE A
- CG05 CONCRETE GUTTER 24-INCH
- CP01 CONCRETE PAVEMENT 10-INCH
- 1.75-INCH OVERLAY DEPTH
- 2-INCH OVERLAY DEPTH
- 3-INCH ASPHALT SHOULDER
- 5.5-INCH ASPHALT PAVEMENT

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

2

MEDIAN BARRIER				
STATION		STATION	LENGTH (FEET)	BARRIER TYPE
581CL+70.22	-	581CL+95.22	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
581CL+95.22	-	582CL+72.50	77.28	CONCRETE BARRIER TYPE S56A SPECIAL
582CL+72.50	-	582CL+97.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
582CL+97.50	-	583CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 583CL+00)
583CL+02.50	-	583CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
583CL+27.50	-	583CL+52.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
583CL+52.00	-	590CL+00.00	648.00	CONCRETE BARRIER TYPE S42A SPECIAL
590CL+00.00	-	595CL+75.00	575.00	CONCRETE BARRIER TYPE S42 SPECIAL
595CL+75.00	-	595CL+99.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
595CL+99.50	-	596CL+24.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
596CL+24.50	-	596CL+29.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.596CL+27)
596CL+29.50	-	596CL+54.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
596CL+54.50	-	596CL+79.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
596CL+79.00	-	601CL+78.00	499.00	CONCRETE BARRIER TYPE S42 SPECIAL
601CL+78.00	-	602CL+02.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
602CL+02.50	-	602CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
602CL+27.50	-	602CL+32.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.602CL+30)
602CL+32.50	-	602CL+57.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
602CL+57.50	-	603CL+93.63	136.13	CONCRETE BARRIER TYPE S56 SPECIAL
BEGIN TRANSITION TO FISH HATCHERY RETROFIT PIERS				
603CL+93.63	-	604CL+18.63	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
			0.00	FISH HATCHERY RETROFIT PIERS
605CL+62.57	-	605CL+87.57	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
END TRANSITION TO FISH HATCHERY RETROFIT PIERS				
605CL+87.57	-	607CL+72.50	184.93	CONCRETE BARRIER TYPE S56 SPECIAL

MEDIAN TOE OF BARRIER							
	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
592+00	-0.38%	-1.00	901.66	0.02	901.68	1.00	-0.36%
592+50	-0.40%	-1.01	901.47	0.03	901.50	1.00	-0.40%
593+00	-0.58%	-1.01	901.27	0.03	901.30	1.00	-0.66%
593+50	-0.58%	-1.00	900.98	-0.01	900.97	1.00	-0.68%
594+00	-0.84%	-1.00	900.69	-0.06	900.63	1.01	-0.80%
594+50	-0.84%	-1.00	900.27	-0.04	900.23	1.01	-0.82%
595+00	-0.96%	-1.00	899.85	-0.03	899.82	1.01	-1.00%
595+50	-0.94%	-1.00	899.37	-0.05	899.32	1.01	-1.00%
596+00	-1.10%	-1.00	898.90	-0.08	898.82	1.01	-1.04%
596+50	-1.10%	-1.00	898.35	-0.05	898.30	1.01	-1.06%
597+00	-1.08%	-1.00	897.80	-0.03	897.77	1.00	-1.10%
597+50	-1.08%	-1.00	897.26	-0.04	897.22	1.01	-1.10%
598+00	-1.10%	-1.00	896.72	-0.05	896.67	1.01	-1.16%
598+50	-1.10%	-1.00	896.17	-0.08	896.09	1.01	-1.16%
599+00	-1.10%	-1.00	895.62	-0.11	895.51	1.02	-1.08%
599+50	-1.08%	-1.00	895.07	-0.10	894.97	1.02	-1.08%
600+00	-1.12%	-1.00	894.53	-0.10	894.43	1.02	-1.14%
600+50	-1.10%	-1.00	893.97	-0.11	893.86	1.02	-1.14%
601+00	-1.16%	-1.00	893.42	-0.13	893.29	1.02	-1.08%
601+50	-1.16%	-1.00	892.84	-0.09	892.75	1.01	-1.06%
602+00	-1.08%	-1.00	892.26	-0.04	892.22	1.01	-1.12%
602+50	-1.08%	-1.00	891.72	-0.06	891.66	1.01	-1.14%
603+00	-1.16%	-1.00	891.18	-0.09	891.09	1.01	-1.06%
603+50	-1.18%	-1.00	890.60	-0.04	890.56	1.00	-1.04%
604+00	-0.66%	-1.00	890.01	0.03	890.04	1.00	-0.70%
604+50	-0.52%	-1.00	889.68	0.01	889.69	1.00	-0.52%
605+00	-0.26%	-1.00	889.42	0.01	889.43	1.00	-0.30%
605+50	-0.22%	-1.00	889.29	-0.01	889.28	1.00	-0.20%
606+00	0.16%	-1.00	889.18	0.00	889.18	1.00	0.04%

2

FISH HATCHERY ROAD NE RAMP

ANN STREET

WB USH 12/18

EB USH 12/18

MATCHLINE 606+00

MATCHLINE 621+00

608CL

610CL

612CL

614CL

616CL

618CL

620CL

BG11

BG12

AP01

CB01

BG10

BG13

OSS 4-CHORD TRUSS FULL SPAN
S-13-547

OSS 2-CHORD TRUSS CANTILEVER
S-13-2021

OSS 2-CHORD TRUSS CANTILEVER
S-13-2002

R/L USH 12/18

30FHSE

28FHSE

26FHSE

24FHSE

22FHSE

R/L FISH HATCHERY ROAD TO
USH 12/18 EB

AG01

FISH HATCHERY ROAD
SE LOOP RAMP

FISH HATCHERY ROAD SE RAMP

APPLEGATE ROAD

SIGN

INL

MH

A/C

148

2_029

LEGEND

- AG01 BASE AGGREGATE DENSE ¾-INCH
- AP01 HMA PAVEMENT TYPE 4 HT 58-28 V
- BG10 MGS GUARDRAIL 3
- BG11 MGS THRIE BEAM TRANSITION
- BG12 MGS GUARDRAIL TERMINAL EAT
- BG13 MGS GUARDRAIL TERMINAL TYPE 2
- CB01 CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- 2-INCH OVERLAY DEPTH
- 3-INCH ASPHALT SHOULDER
- 4-INCH OVERLAY DEPTH
- 5.5-INCH ASPHALT PAVEMENT
- 4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

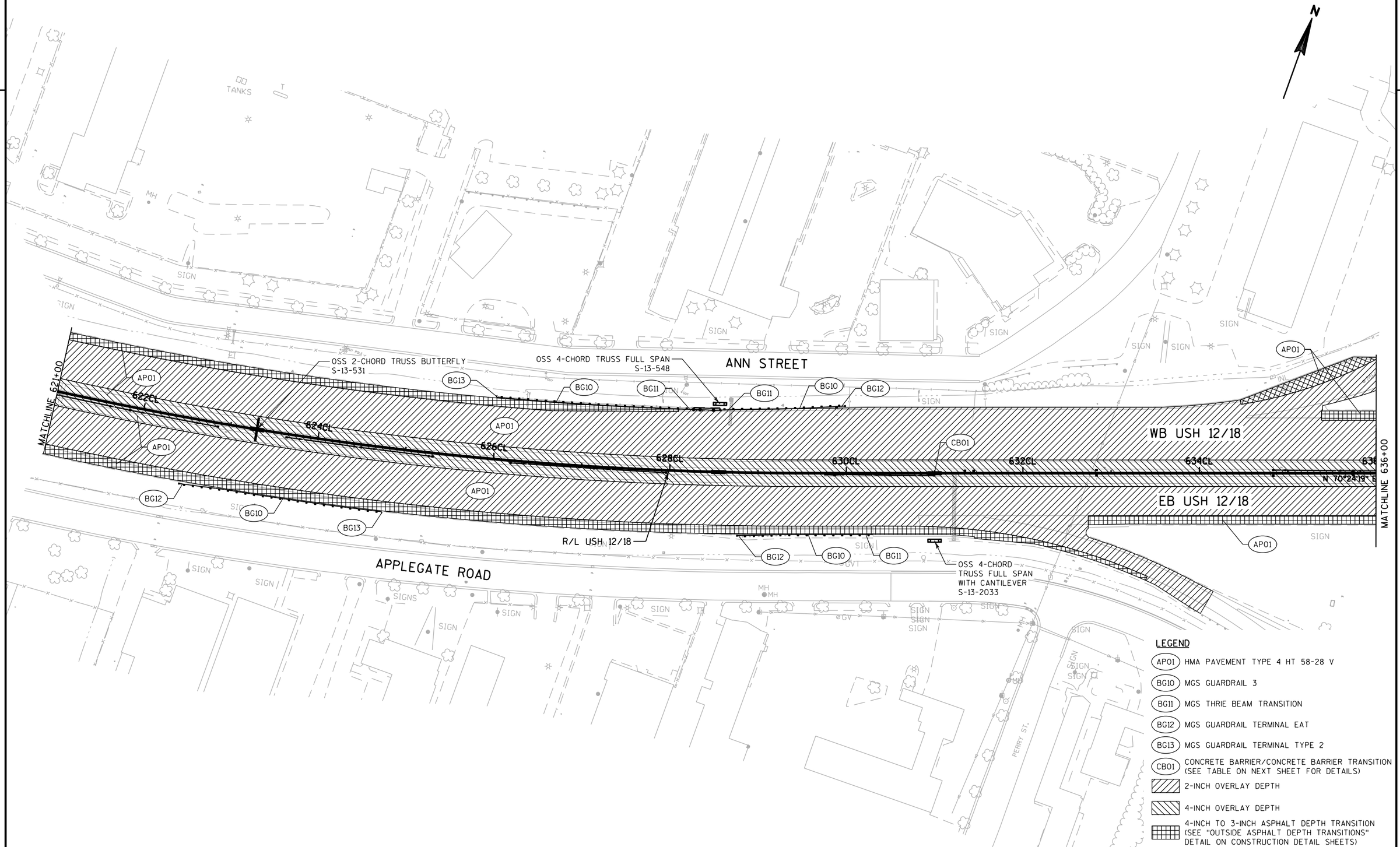
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\021216_pd.dgn PLOT DATE : 2/20/2020 12:32:17 PM PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

MEDIAN BARRIER				
STATION - STATION			LENGTH (FEET)	BARRIER TYPE
END TRANSITION TO FISH HATCHERY RETROFIT PIERS				
605CL+87.57	-	607CL+72.50	184.93	CONCRETE BARRIER TYPE S56 SPECIAL
607CL+72.50	-	607CL+97.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
607CL+97.50	-	608CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.608CL+00)
608CL+02.50	-	608CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
608CL+27.50	-	610CL+00.00	172.50	CONCRETE BARRIER TYPE S56 SPECIAL
610CL+00.00	-	614CL+72.50	472.50	CONCRETE BARRIER TYPE S56A SPECIAL
614CL+72.50	-	614CL+97.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
614CL+97.50	-	615CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 615CL+00)
615CL+02.50	-	615CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
615CL+27.50	-	617CL+72.50	245.00	CONCRETE BARRIER TYPE S56A SPECIAL
617CL+72.50	-	617CL+97.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
617CL+97.50	-	618CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 618CL+00)
618CL+02.50	-	618CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
618CL+27.50	-	623CL+02.50	475.00	CONCRETE BARRIER TYPE S56A SPECIAL

MEDIAN TOE OF BARRIER							
	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
606+00	0.16%	-1.00	889.18	0.00	889.18	1.00	0.04%
606+50	0.22%	-1.00	889.26	-0.06	889.20	1.01	0.16%
607+00	0.10%	-1.00	889.37	-0.09	889.28	1.01	0.18%
607+50	0.12%	-1.00	889.42	-0.05	889.37	1.01	0.16%
608+00	0.00%	-1.00	889.48	-0.03	889.45	1.00	-0.04%
608+50	0.02%	-1.00	889.48	-0.05	889.43	1.01	-0.06%
609+00	0.12%	-1.00	889.49	-0.09	889.40	1.01	0.14%
609+50	0.10%	-1.00	889.55	-0.08	889.47	1.01	0.12%
610+00	0.32%	-1.00	889.60	-0.07	889.53	1.01	0.02%
610+50	0.32%	-1.00	889.76	-0.22	889.54	1.04	0.02%
611+00	0.22%	-1.00	889.92	-0.37	889.55	1.06	0.16%
611+50	0.24%	-1.00	890.03	-0.40	889.63	1.07	0.16%
612+00	0.62%	-1.00	890.15	-0.44	889.71	1.07	0.06%
612+50	0.90%	-1.00	890.46	-0.72	889.74	1.12	0.04%
613+00	0.68%	-1.00	890.91	-1.15	889.76	1.18	0.00%
613+50	0.64%	-1.00	891.25	-1.49	889.76	1.24	-0.02%
614+00	0.54%	-1.00	891.57	-1.82	889.75	1.29	-0.18%
614+50	0.16%	-1.00	891.84	-2.18	889.66	1.35	-0.04%
615+00	-0.04%	-1.00	891.92	-2.28	889.64	1.37	0.06%
615+50	-0.14%	-1.00	891.90	-2.23	889.67	1.36	0.06%
616+00	-0.04%	-1.00	891.83	-2.13	889.70	1.34	-0.12%
616+50	-0.08%	-1.00	891.81	-2.17	889.64	1.35	-0.08%
617+00	-0.14%	-1.00	891.77	-2.17	889.60	1.35	-0.02%
617+50	-0.16%	-1.00	891.70	-2.11	889.59	1.34	-0.02%
618+00	-0.12%	-1.00	891.62	-2.04	889.58	1.33	-0.12%
618+50	-0.14%	-1.00	891.56	-2.04	889.52	1.33	-0.14%
619+00	-0.14%	-1.00	891.49	-2.04	889.45	1.33	-0.18%
619+50	-0.18%	-1.00	891.42	-2.06	889.36	1.33	-0.14%
620+00	-0.18%	-1.00	891.33	-2.04	889.29	1.33	-0.08%
620+50	-0.16%	-1.00	891.24	-1.99	889.25	1.32	-0.12%
621+00	-0.16%	-1.00	891.16	-1.97	889.19	1.32	-0.16%

2



LEGEND

- APO1 — HMA PAVEMENT TYPE 4 HT 58-28 V
- BG10 — MGS GUARDRAIL 3
- BG11 — MGS THRIE BEAM TRANSITION
- BG12 — MGS GUARDRAIL TERMINAL EAT
- BG13 — MGS GUARDRAIL TERMINAL TYPE 2
- CB01 — CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- 2-INCH OVERLAY DEPTH
- 4-INCH OVERLAY DEPTH
- 4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

2

MEDIAN BARRIER

STATION - STATION			LENGTH (FEET)	BARRIER TYPE
618CL+27.50	-	623CL+02.50	475.00	CONCRETE BARRIER TYPE S56A SPECIAL
623CL+02.50	-	623CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
623CL+27.50	-	623CL+32.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 623CL+30)
623CL+32.50	-	623CL+57.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
623CL+57.50	-	628CL+27.50	470.00	CONCRETE BARRIER TYPE S56A SPECIAL
628CL+27.50	-	628CL+52.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
628CL+52.50	-	628CL+57.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.628+55)
628CL+57.50	-	628CL+82.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
628CL+82.50	-	630CL+72.50	190.00	CONCRETE BARRIER TYPE S56A SPECIAL
630CL+72.50	-	630CL+97.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
630CL+97.50	-	631CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 631CL+00)
631CL+02.50	-	631CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
631CL+27.50	-	631CL+52.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
631CL+52.00	-	636CL+00.00	448.00	CONCRETE BARRIER TYPE S42A SPECIAL
636CL+00.00	-	638CL+82.88	282.88	CONCRETE BARRIER TYPE S42 SPECIAL

MEDIAN TOE OF BARRIER

	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
621+00	-0.16%	-1.00	891.16	-1.97	889.19	1.32	-0.16%
621+50	-0.16%	-1.00	891.08	-1.97	889.11	1.32	-0.20%
622+00	-0.16%	-1.00	891.00	-1.99	889.01	1.32	-0.16%
622+50	-0.16%	-1.00	890.92	-1.99	888.93	1.32	-0.14%
623+00	-0.14%	-1.00	890.84	-1.98	888.86	1.32	-0.12%
623+50	-0.12%	-1.00	890.77	-1.97	888.80	1.32	-0.10%
624+00	0.00%	-1.00	890.71	-1.96	888.75	1.32	-0.10%
624+50	-0.06%	-1.00	890.71	-2.01	888.70	1.32	-0.06%
625+00	-0.12%	-1.00	890.68	-2.01	888.67	1.32	-0.06%
625+50	-0.16%	-1.00	890.62	-1.98	888.64	1.32	-0.06%
626+00	-0.02%	-1.00	890.54	-1.93	888.61	1.31	-0.08%
626+50	0.06%	-1.00	890.53	-1.96	888.57	1.31	-0.02%
627+00	0.16%	-1.00	890.56	-2.00	888.56	1.32	0.00%
627+50	0.20%	-1.00	890.64	-2.08	888.56	1.33	0.08%
628+00	0.04%	-1.00	890.74	-2.14	888.60	1.34	0.10%
628+50	-0.08%	-1.00	890.76	-2.11	888.65	1.34	0.04%
629+00	-0.28%	-1.00	890.72	-2.05	888.67	1.33	-0.02%
629+50	-0.30%	-1.00	890.58	-1.92	888.66	1.31	-0.06%
630+00	-0.36%	-1.00	890.43	-1.80	888.63	1.29	0.16%
630+50	-0.48%	-1.00	890.25	-1.54	888.71	1.25	0.14%
631+00	-0.08%	-1.00	890.01	-1.23	888.78	1.20	0.12%
631+50	0.00%	-1.00	889.97	-1.13	888.84	1.18	0.14%
632+00	0.00%	-1.00	889.97	-1.06	888.91	1.17	0.16%
632+50	0.04%	-1.00	889.97	-0.98	888.99	1.16	0.18%
633+00	0.06%	-1.00	889.99	-0.91	889.08	1.15	0.18%
633+50	0.02%	-1.00	890.02	-0.85	889.17	1.14	0.20%
634+00	-0.04%	-1.00	890.03	-0.76	889.27	1.12	0.24%
634+50	-0.04%	-1.00	890.01	-0.62	889.39	1.10	0.28%
635+00	0.00%	-1.00	889.99	-0.46	889.53	1.08	0.34%
635+50	0.00%	-1.00	889.99	-0.29	889.70	1.05	0.30%
636+00	0.02%	-1.00	889.99	-0.14	889.85	1.02	0.24%

2

2

N

PARK STREET NW RAMP

PARK STREET

PARK STREET NE LOOP RAMP

PARK STREET NE RAMP

SIGN

MH

A/C

MATCHLINE 636+00

MATCHLINE 651+00

638CL

640CL

642CL

644CL

646CL

648CL

650CL

WB USH 12/18

EB USH 12/18

OSS 2-CHORD TRUSS BUTTERFLY
S-13-532

R/L USH 12/18

AP01

BG10

BG11

BG12

BG13

CB01

CP02

PARK STREET SW LOOP RAMP

PARK STREET SE RAMP

SKILANE

USH 14

LEGEND

- AP01 HMA PAVEMENT TYPE 4 HT 58-28 V
- BG10 MGS GUARDRAIL 3
- BG11 MGS THRIE BEAM TRANSITION
- BG12 MGS GUARDRAIL TERMINAL EAT
- BG13 MGS GUARDRAIL TERMINAL TYPE 2
- CB01 CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- CP02 REINFORCED CONCRETE PAVEMENT APPROACH SLABS
- 2-INCH OVERLAY DEPTH
- 4-INCH OVERLAY DEPTH
- 4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

2

MEDIAN BARRIER

STATION - STATION			LENGTH (FEET)	BARRIER TYPE
BEGIN TRANSITION TO PARK STREET BRIDGE (SEE CONSTRUCTION DETAILS FOR MORE INFORMATION)				
638CL+82.88	-	638CL+93.38	10.50	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S42 SPECIAL
638CL+93.38	-	639CL+03.38	10.00	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S36 SPECIAL SPLIT
639CL+03.38	-	639CL+13.19	9.81	CONCRETE BARRIER TYPE S36 SPECIAL, SPLIT
639CL+13.19	-	639CL+28.19	15.00	CONCRETE BARRIER TRANSITION NJ32SF TO S36 SPECIAL, SPLIT
				PARK STREET BRIDGE
640CL+84.43	-	640CL+99.43	15.00	CONCRETE BARRIER TRANSITION NJ32SF TO S36 SPECIAL, SPLIT
640CL+99.43	-	641CL+15.77	16.34	CONCRETE BARRIER TYPE S36 SPECIAL, SPLIT
641CL+15.77	-	641CL+25.77	10.00	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S36 SPECIAL SPLIT
641CL+25.77	-	641CL+36.27	10.50	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S42 SPECIAL
END TRANSITION TO PARK STREET BRIDGE				
641CL+36.27	-	641CL+48.00	11.73	CONCRETE BARRIER TYPE S42 SPECIAL
641CL+48.00	-	641CL+72.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
641CL+72.50	-	641CL+97.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
641CL+97.50	-	642CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 642CL+00)
642CL+02.50	-	642CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
642CL+27.50	-	642CL+52.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
642CL+52.00	-	650CL+90.00	838.00	CONCRETE BARRIER TYPE S42 SPECIAL
650CL+90.00	-	651CL+14.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL

MEDIAN TOE OF BARRIER

	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
636+00	0.02%	-1.00	889.99	-0.14	889.85	1.02	0.24%
636+50	0.14%	-1.00	890.00	-0.03	889.97	1.01	0.22%
637+00	0.32%	-1.00	890.07	0.01	890.08	1.00	0.24%
637+50	0.32%	-1.00	890.23	-0.03	890.20	1.01	0.32%
638+00	0.34%	-1.00	890.39	-0.03	890.36	1.01	0.48%
638+50	0.34%	-1.01	890.56	0.04	890.60	1.00	0.40%
639+00		-1.01	890.73	0.07	890.80	1.00	
PARK STREET BRIDGE B-13-16 (EB) / B-13-191 (WB)							
641+00	0.14%	-1.00	891.38	0.02	891.40	1.00	0.18%
641+50	0.18%	-1.01	891.45	0.04	891.49	1.00	0.22%
642+00	0.24%	-1.01	891.54	0.06	891.60	1.00	0.22%
642+50	0.34%	-1.01	891.66	0.05	891.71	1.00	0.32%
643+00	0.56%	-1.01	891.83	0.04	891.87	1.00	0.48%
643+50	0.76%	-1.00	892.11	0.00	892.11	1.00	0.70%
644+00	1.08%	-1.00	892.49	-0.03	892.46	1.01	1.06%
644+50	1.32%	-1.00	893.03	-0.04	892.99	1.01	1.36%
645+00	1.80%	-1.00	893.69	-0.02	893.67	1.00	1.82%
645+50	2.02%	-1.00	894.59	-0.01	894.58	1.00	2.02%
646+00	2.38%	-1.00	895.60	-0.01	895.59	1.00	2.34%
646+50	2.62%	-1.00	896.79	-0.03	896.76	1.01	2.56%
647+00	2.94%	-1.00	898.10	-0.06	898.04	1.01	2.90%
647+50	2.98%	-1.00	899.57	-0.08	899.49	1.01	2.94%
648+00	3.02%	-1.00	901.06	-0.10	900.96	1.02	3.02%
648+50	2.98%	-1.00	902.57	-0.10	902.47	1.02	3.00%
649+00	2.92%	-1.00	904.06	-0.09	903.97	1.01	3.00%
649+50	3.00%	-1.00	905.52	-0.05	905.47	1.01	3.04%
650+00	3.14%	-1.00	907.02	-0.03	906.99	1.00	3.06%
650+50	3.10%	-1.00	908.59	-0.07	908.52	1.01	3.06%
651+00	3.08%	-1.00	910.14	-0.09	910.05	1.02	3.04%

FILE NAME: \\MADW00\INGRPROJ\66034\t1\cds\030201_mq.ppt PLOT DATE : 1/30/2020 11:08:18 PM PLOT BY : HNTB Corp PLOT NAME : 030201_mq16 PLOT SCALE : 1:1

2

2

N

BADGER ROAD

WISCONSIN & SOUTHERN RAILROAD

SIGN

BG10

BG11

AP01

CP02

CB01

652CL

654CL

656CL

658CL

660CL

662CL

664CL

MATCHLINE 651+00

MATCHLINE 665+00

WB USH 12/18

EB USH 12/18

R/L USH 12/18

OSS 2-CHORD TRUSS BUTTERFLY
STA. 664+45

OSS 4-CHORD
TRUSS FULL SPAN
WITH CANTILEVER
S-13-2034

GV

MH

LEGEND

- AP01 HMA PAVEMENT TYPE 4 HT 58-28 V
- BG10 MGS GUARDRAIL 3
- BG11 MGS THRIE BEAM TRANSITION
- CB01 CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- CP02 REINFORCED CONCRETE PAVEMENT APPROACH SLABS
- 2-INCH OVERLAY DEPTH
- 4-INCH OVERLAY DEPTH
- 4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

2

MEDIAN BARRIER

STATION - STATION			LENGTH (FEET)	BARRIER TYPE
650CL+90.00	-	651CL+14.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
651CL+14.50	-	651CL+39.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
651CL+39.50	-	651CL+44.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.651CL+42)
651CL+44.50	-	651CL+69.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
651CL+69.50	-	651CL+94.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
BEGIN TRANSITION TO RAILROAD BRIDGE (SEE CONSTRUCTION DETAILS FOR MORE INFORMATION)				
651CL+94.00	-	652CL+04.50	10.50	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S42 SPECIAL
652CL+04.50	-	652CL+14.50	10.00	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S36 SPECIAL SPLIT
652CL+14.50	-	652CL+44.75	30.25	CONCRETE BARRIER TYPE S36 SPECIAL, SPLIT
652CL+44.75	-	652CL+59.75	15.00	CONCRETE BARRIER TRANSITION NJ32SF TO S36 SPECIAL, SPLIT
				RAILROAD BRIDGE
653CL+50.58	-	653CL+65.58	15.00	CONCRETE BARRIER TRANSITION NJ32SF TO S36 SPECIAL, SPLIT
653CL+65.58	-	653CL+89.43	23.85	CONCRETE BARRIER TYPE S36 SPECIAL, SPLIT
653CL+89.43	-	653CL+99.43	10.00	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S36 SPECIAL SPLIT
653CL+99.43	-	654CL+09.93	10.50	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S42 SPECIAL
END TRANSITION TO RAILROAD BRIDGE				
654CL+09.93	-	655CL+08.63	98.70	CONCRETE BARRIER TYPE S42A SPECIAL
				BADGER PEDESTRIAN BRIDGE PIER
656CL+74.10	-	672CL+48.00	1,573.90	CONCRETE BARRIER TYPE S42A SPECIAL

MEDIAN TOE OF BARRIER

	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
651+00	3.08%	-1.00	910.14	-0.09	910.05	1.02	3.04%
651+50	3.02%	-1.00	911.68	-0.11	911.57	1.02	3.04%
652+00		-1.00	913.19	-0.10	913.09	1.02	
RAILROAD BRIDGE B-13-17 (EB) / B-13-192 (WB)							
653+50	2.98%	-1.00	917.64	0.00	917.64	1.00	2.90%
654+00	2.92%	-1.00	919.13	-0.04	919.09	1.01	2.66%
654+50	2.74%	-1.00	920.59	-0.17	920.42	1.03	2.50%
655+00	2.46%	-1.00	921.96	-0.29	921.67	1.05	2.18%
655+50	2.26%	-1.00	923.19	-0.43	922.76	1.07	1.98%
656+00	1.98%	-1.00	924.32	-0.57	923.75	1.09	1.68%
656+50	1.78%	-1.00	925.31	-0.72	924.59	1.12	1.44%
657+00	1.44%	-1.00	926.20	-0.89	925.31	1.14	1.12%
657+50	1.24%	-1.00	926.92	-1.05	925.87	1.17	0.96%
658+00	0.88%	-1.00	927.54	-1.19	926.35	1.19	0.70%
658+50	0.72%	-1.00	927.98	-1.28	926.70	1.21	0.48%
659+00	0.46%	-1.00	928.34	-1.40	926.94	1.23	0.16%
659+50	0.20%	-1.00	928.57	-1.55	927.02	1.25	0.00%
660+00	-0.22%	-1.00	928.67	-1.65	927.02	1.26	-0.24%
660+50	-0.40%	-1.00	928.56	-1.66	926.90	1.27	-0.46%
661+00	-0.70%	-1.00	928.36	-1.69	926.67	1.27	-1.00%
661+50	-0.86%	-1.00	928.01	-1.84	926.17	1.30	-1.14%
662+00	-1.16%	-1.00	927.58	-1.98	925.60	1.32	-1.32%
662+50	-1.36%	-1.00	927.00	-2.06	924.94	1.33	-1.50%
663+00	-1.74%	-1.00	926.32	-2.13	924.19	1.34	-1.80%
663+50	-1.98%	-1.00	925.45	-2.16	923.29	1.35	-2.10%
664+00	-2.42%	-1.00	924.46	-2.22	922.24	1.36	-2.40%
664+50	-2.48%	-1.00	923.25	-2.21	921.04	1.36	-2.52%
665+00	-2.60%	-1.00	922.01	-2.23	919.78	1.36	-2.56%

2

N

BADGER ROAD

RUSK AVENUE

OSS 4-CHORD TRUSS FULL SPAN
STA. 673+00

BG11 BG10 BG12

APO1 CBO1 APO1

666CL 668CL 670CL 672CL 674CL 676CL 678CL

WB USH 12/18

EB USH 12/18

APO1 APO1 APO1

MATCHLINE 665+00

MATCHLINE 680+00

R/L USH 12/18

OSS 2-CHORD TRUSS CANTILEVER
S-13-2024

PHEASANT RIDGE TRAIL

BADGER ROAD

SIGN MH 408 315490 2023

LEGEND

APO1	HMA PAVEMENT TYPE 4 HT 58-28 V
BG10	MGS GUARDRAIL 3
BG11	MGS THRIE BEAM TRANSITION
BG12	MGS GUARDRAIL TERMINAL EAT
CBO1	CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
	2-INCH OVERLAY DEPTH
	4-INCH OVERLAY DEPTH
	4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

2

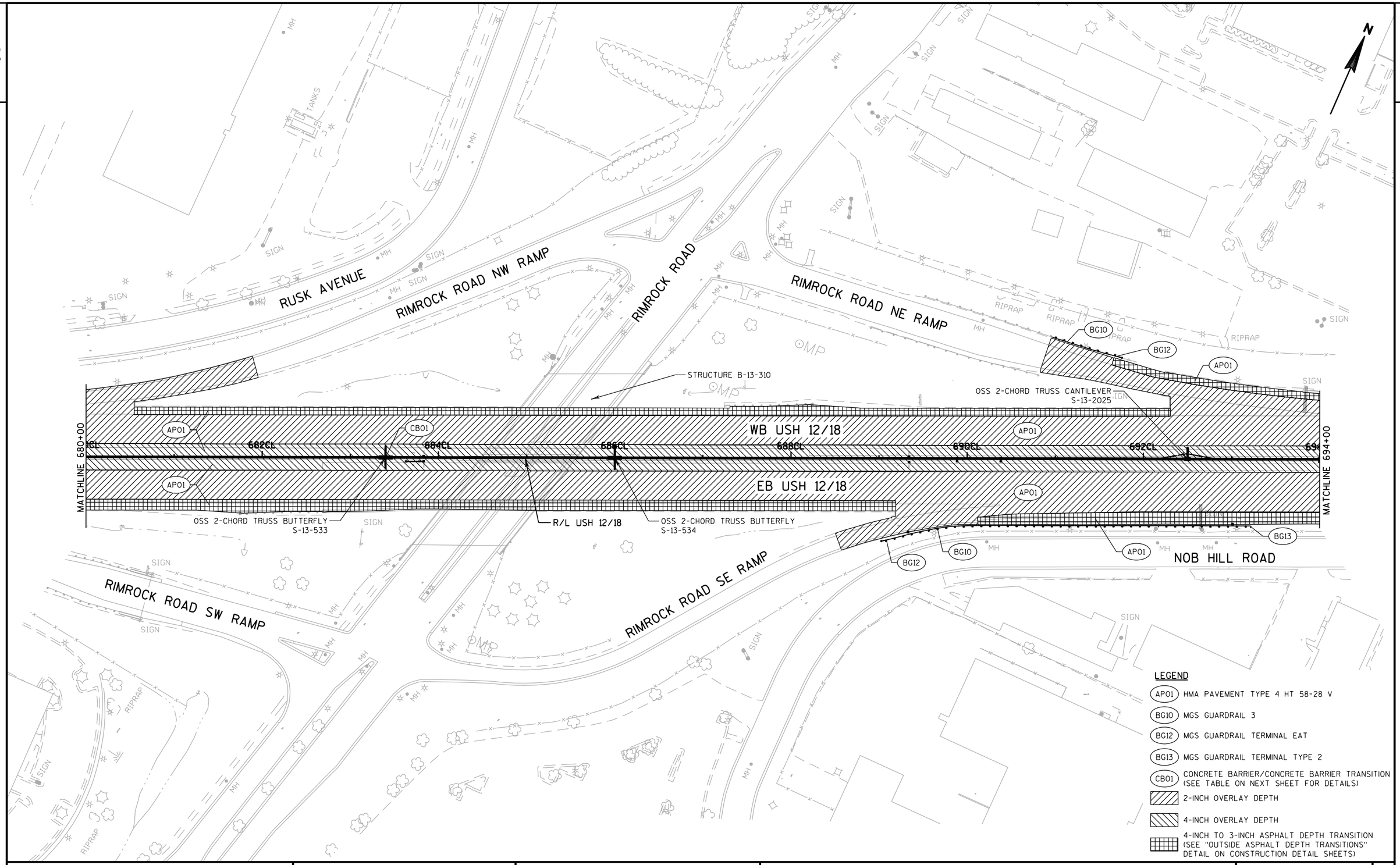
MEDIAN BARRIER

STATION - STATION			LENGTH (FEET)	BARRIER TYPE
656CL+74.10	-	672CL+48.00	1,573.90	CONCRETE BARRIER TYPE S42A SPECIAL
672CL+48.00	-	672CL+72.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
672CL+72.50	-	672CL+97.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
672CL+97.50	-	673CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 673CL+00)
673CL+02.50	-	673CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
673CL+27.50	-	673CL+52.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
673CL+52.00	-	677CL+48.00	396.00	CONCRETE BARRIER TYPE S42A SPECIAL
677CL+48.00	-	677CL+72.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
677CL+72.50	-	677CL+97.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
677CL+97.50	-	678CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 678CL+00)
678CL+02.50	-	678CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
678CL+27.50	-	678CL+52.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
678CL+52.00	-	682CL+88.00	436.00	CONCRETE BARRIER TYPE S42A SPECIAL

MEDIAN TOE OF BARRIER

	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
665+00	-2.60%	-1.00	922.01	-2.23	919.78	1.36	-2.56%
665+50	-2.74%	-1.00	920.71	-2.21	918.50	1.36	-2.62%
666+00	-3.00%	-1.00	919.34	-2.15	917.19	1.34	-2.62%
666+50	-2.96%	-1.00	917.84	-1.96	915.88	1.32	-2.72%
667+00	-2.88%	-1.00	916.36	-1.84	914.52	1.30	-2.76%
667+50	-2.86%	-1.00	914.92	-1.78	913.14	1.29	-2.68%
668+00	-2.42%	-1.00	913.49	-1.69	911.80	1.27	-2.64%
668+50	-2.36%	-1.00	912.28	-1.80	910.48	1.29	-2.60%
669+00	-2.70%	-1.00	911.10	-1.92	909.18	1.31	-2.56%
669+50	-2.62%	-1.00	909.75	-1.85	907.90	1.30	-2.60%
670+00	-2.58%	-1.00	908.44	-1.84	906.60	1.29	-2.62%
670+50	-2.54%	-1.00	907.15	-1.86	905.29	1.30	-2.62%
671+00	-2.62%	-1.00	905.88	-1.90	903.98	1.31	-2.64%
671+50	-2.66%	-1.00	904.57	-1.91	902.66	1.31	-2.66%
672+00	-2.72%	-1.00	903.24	-1.91	901.33	1.31	-2.66%
672+50	-2.70%	-1.00	901.88	-1.88	900.00	1.30	-2.60%
673+00	-2.64%	-1.00	900.53	-1.83	898.70	1.29	-2.62%
673+50	-2.64%	-1.00	899.21	-1.82	897.39	1.29	-2.60%
674+00	-2.66%	-1.00	897.89	-1.80	896.09	1.29	-2.62%
674+50	-2.62%	-1.00	896.56	-1.78	894.78	1.29	-2.58%
675+00	-2.60%	-1.00	895.25	-1.76	893.49	1.28	-2.60%
675+50	-2.56%	-1.00	893.95	-1.76	892.19	1.28	-2.48%
676+00	-2.48%	-1.00	892.67	-1.72	890.95	1.28	-2.54%
676+50	-2.60%	-1.00	891.43	-1.75	889.68	1.28	-2.72%
677+00	-2.80%	-1.00	890.13	-1.81	888.32	1.29	-2.64%
677+50	-2.84%	-1.00	888.73	-1.73	887.00	1.28	-2.58%
678+00	-2.90%	-1.00	887.31	-1.60	885.71	1.26	-2.52%
678+50	-2.92%	-1.00	885.86	-1.41	884.45	1.23	-2.54%
679+00	-2.90%	-1.00	884.40	-1.22	883.18	1.20	-2.64%
679+50	-2.92%	-1.00	882.95	-1.09	881.86	1.17	-2.60%
680+00	-3.24%	-1.00	881.49	-0.93	880.56	1.15	-2.56%

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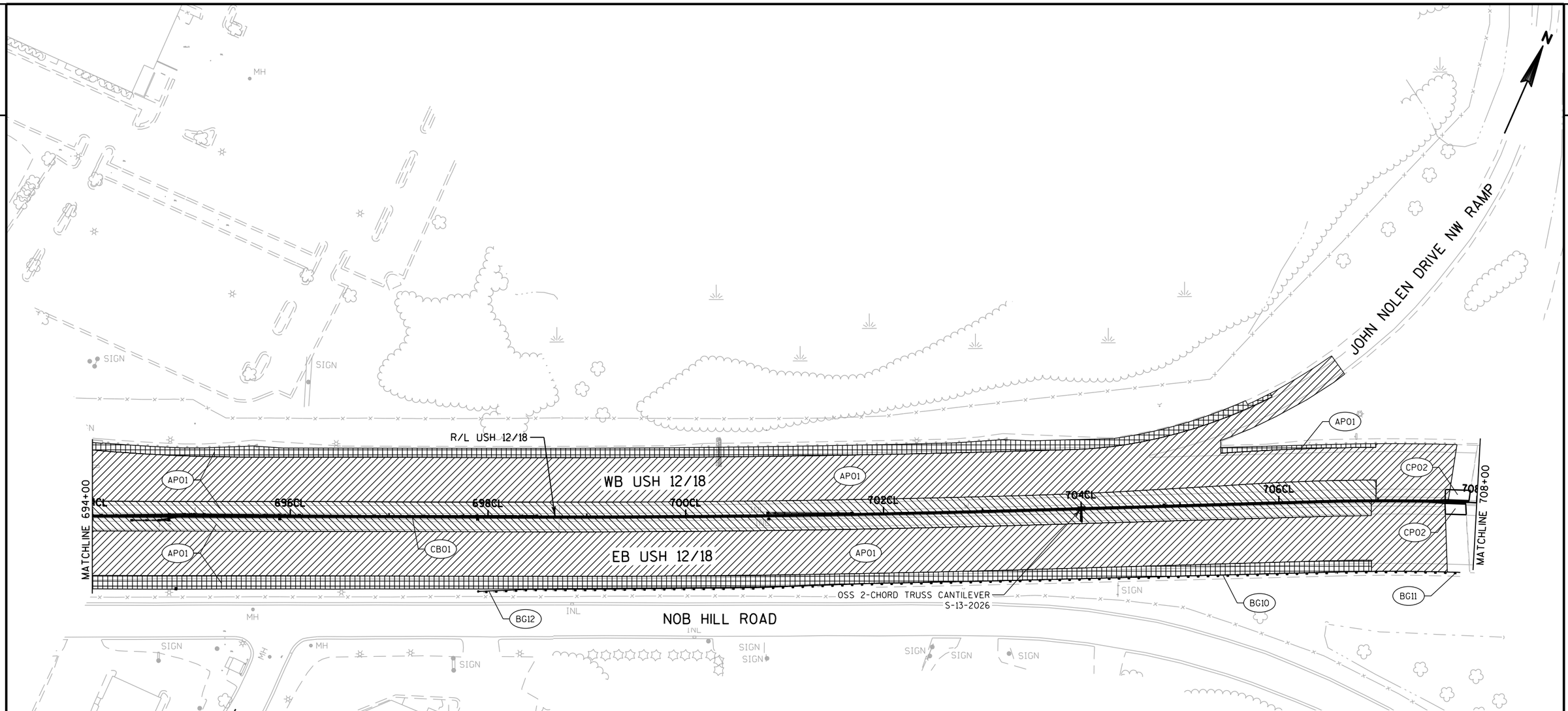
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

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MEDIAN BARRIER				
STATION		STATION	LENGTH (FEET)	BARRIER TYPE
678CL+52.00	-	682CL+88.00	436.00	CONCRETE BARRIER TYPE S42A SPECIAL
682CL+88.00	-	683CL+12.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
683CL+12.50	-	683CL+37.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
683CL+37.50	-	683CL+42.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 683CL+40)
683CL+42.50	-	683CL+67.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
683CL+67.50	-	684CL+00.00	32.50	CONCRETE BARRIER TYPE S56A SPECIAL
684CL+00.00	-	684CL+22.85	22.85	CONCRETE BARRIER TYPE S56 SPECIAL
BEGIN TRANSITION TO RIMROCK RETROFIT PIERS				
684CL+22.85	-	684CL+47.85	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
				FISH HATCHERY RETROFIT PIERS
END TRANSITION TO RIMROCK RETROFIT PIERS				
685CL+57.00	-	685CL+97.50	40.50	CONCRETE BARRIER TYPE 56 VERTICAL SPECIAL
685CL+97.50	-	686CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA. 686CL+00)
686CL+02.50	-	686CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
686CL+27.50	-	686CL+52.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
686CL+52.00	-	687CL+50.00	98.00	CONCRETE BARRIER TYPE S42 SPECIAL
687CL+50.00	-	691CL+98.00	448.00	CONCRETE BARRIER TYPE S42A SPECIAL
691CL+98.00	-	692CL+22.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
692CL+22.50	-	692CL+47.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
692CL+47.50	-	692CL+52.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.692CL+50)
692CL+52.50	-	692CL+77.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
692CL+77.50	-	693CL+02.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
693CL+02.00	-	703CL+48.00	1,046.00	CONCRETE BARRIER TYPE S42A SPECIAL
703CL+48.00	-	703CL+72.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL

MEDIAN TOE OF BARRIER							
	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
680+00	-3.24%	-1.00	881.49	-0.93	880.56	1.15	-2.56%
680+50	-2.90%	-1.00	879.87	-0.59	879.28	1.10	-2.56%
681+00	-2.64%	-1.00	878.42	-0.42	878.00	1.07	-2.54%
681+50	-2.60%	-1.00	877.10	-0.37	876.73	1.06	-2.54%
682+00	-2.60%	-1.00	875.80	-0.34	875.46	1.05	-2.56%
682+50	-2.62%	-1.00	874.50	-0.32	874.18	1.05	-2.56%
683+00	-2.62%	-1.00	873.19	-0.29	872.90	1.05	-2.58%
683+50	-2.72%	-1.00	871.88	-0.27	871.61	1.04	-2.58%
684+00	-2.76%	-1.00	870.52	-0.20	870.32	1.03	-2.54%
684+50	-2.44%	-1.00	869.14	-0.09	869.05	1.01	-2.40%
685+00	-2.44%	-1.00	867.92	-0.07	867.85	1.01	-2.40%
685+50	-2.32%	-1.00	866.70	-0.05	866.65	1.01	-2.24%
686+00	-2.22%	-1.00	865.54	-0.01	865.53	1.00	-2.16%
686+50	-2.06%	-1.00	864.43	0.02	864.45	1.00	-1.94%
687+00	-1.94%	-1.01	863.40	0.08	863.48	1.00	-1.90%
687+50	-1.78%	-1.02	862.43	0.10	862.53	1.00	-1.64%
688+00	-1.62%	-1.03	861.54	0.17	861.71	1.00	-1.64%
688+50	-1.54%	-1.03	860.73	0.16	860.89	1.00	-1.46%
689+00	-1.48%	-1.03	859.96	0.20	860.16	1.00	-1.42%
689+50	-1.34%	-1.04	859.22	0.23	859.45	1.00	-1.18%
690+00	-1.26%	-1.05	858.55	0.31	858.86	1.00	-1.12%
690+50	-1.10%	-1.06	857.92	0.38	858.30	1.00	-0.94%
691+00	-1.02%	-1.07	857.37	0.46	857.83	1.00	-0.88%
691+50	-0.84%	-1.08	856.86	0.53	857.39	1.00	-0.80%
692+00	-0.74%	-1.09	856.44	0.55	856.99	1.00	-0.58%
692+50	-0.58%	-1.10	856.07	0.63	856.70	1.00	-0.36%
693+00	-0.46%	-1.12	855.78	0.74	856.52	1.00	-0.32%
693+50	-0.30%	-1.13	855.55	0.81	856.36	1.00	-0.28%
694+00	-0.18%	-1.13	855.40	0.82	856.22	1.00	-0.12%

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LEGEND

- AP01 HMA PAVEMENT TYPE 4 HT 58-28 V
- BG10 MGS GUARDRAIL 3
- BG11 MGS THRIE BEAM TRANSITION
- BG12 MGS GUARDRAIL TRANSITION EAT
- CB01 CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- CP02 REINFORCED CONCRETE PAVEMENT APPROACH SLABS
- 2-INCH OVERLAY DEPTH
- 4-INCH OVERLAY DEPTH
- 4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

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MEDIAN BARRIER

STATION - STATION			LENGTH (FEET)	BARRIER TYPE
693CL+02.00	-	703CL+48.00	1,046.00	CONCRETE BARRIER TYPE S42A SPECIAL
703CL+48.00	-	703CL+72.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
703CL+72.50	-	703CL+97.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
703CL+97.50	-	704CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.704CL+00)
704CL+02.50	-	704CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
704CL+27.50	-	707CL+12.95	285.45	CONCRETE BARRIER TYPE S56A SPECIAL
BEGIN TRANSITION TO JOHN NOLEN BRIDGE (SEE CONSTRUCTION DETAILS FOR MORE INFORMATION)				
707CL+12.95	-	707CL+37.45	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
707CL+37.45	-	707CL+47.95	10.50	CONCRETE BARRIER TRANSITION TYPE S36A SPECIAL TO S42A SPECIAL
707CL+47.95	-	707CL+67.95	20.00	CONCRETE BARRIER TRANSITION TYPE S36A SPECIAL TO S36A SPECIAL, SPLIT

MEDIAN TOE OF BARRIER

	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
694+00	-0.18%	-1.13	855.40	0.82	856.22	1.00	-0.12%
694+50	-0.08%	-1.14	855.31	0.85	856.16	1.00	-0.04%
695+00	0.00%	-1.14	855.27	0.87	856.14	1.00	0.18%
695+50	0.18%	-1.15	855.27	0.96	856.23	1.00	0.24%
696+00	0.32%	-1.16	855.36	0.99	856.35	1.00	0.40%
696+50	0.46%	-1.16	855.52	1.03	856.55	1.00	0.42%
697+00	0.54%	-1.16	855.75	1.01	856.76	1.00	0.68%
697+50	0.72%	-1.17	856.02	1.08	857.10	1.00	0.74%
698+00	0.80%	-1.18	856.38	1.09	857.47	1.00	0.94%
698+50	0.96%	-1.19	856.78	1.16	857.94	1.00	1.00%
699+00	1.08%	-1.19	857.26	1.18	858.44	1.00	1.22%
699+50	1.20%	-1.20	857.80	1.25	859.05	1.00	1.28%
700+00	1.26%	-1.21	858.40	1.29	859.69	1.00	1.38%
700+50	1.46%	-1.22	859.03	1.35	860.38	1.00	1.52%
701+00	1.56%	-1.22	859.76	1.38	861.14	1.00	1.66%
701+50	1.70%	-1.23	860.54	1.43	861.97	1.00	1.78%
702+00	1.80%	-1.24	861.39	1.47	862.86	1.00	1.84%
702+50	1.90%	-1.24	862.29	1.49	863.78	1.00	2.06%
703+00	2.00%	-1.25	863.24	1.57	864.81	1.00	2.08%
703+50	1.96%	-1.26	864.24	1.61	865.85	1.00	2.24%
704+00	1.88%	-1.28	865.22	1.75	866.97	1.00	2.60%
704+50	1.80%	-1.34	866.16	2.11	868.27	1.00	2.34%
705+00	1.72%	-1.38	867.06	2.38	869.44	1.00	2.26%
705+50	1.50%	-1.43	867.92	2.65	870.57	1.00	2.12%
706+00	1.72%	-1.47	868.67	2.96	871.63	1.00	2.06%
706+50	1.62%	-1.50	869.53	3.13	872.66	1.00	1.78%
707+00	1.66%	-1.52	870.34	3.21	873.55	1.00	1.74%
707+50		-1.52	871.17	3.25	874.42	1.00	

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JOHN NOLEN DRIVE NE RAMP

WISCONSIN & SOUTHERN RAILROAD

WB USH 12/18

EB USH 12/18

R/L USH 12/18

JOHN NOLEN DRIVE SW RAMP

JOHN NOLEN DRIVE SE RAMP

NOB HILL ROAD

MATCHLINE 708+00

MATCHLINE 723+00

PC

PT

710CL

712CL

714CL

716CL

718CL

720CL

722CL

OSS 2-CHORD TRUSS BUTTERFLY
S-13-2005

OSS 2-CHORD TRUSS BUTTERFLY
S-13-535

BG10 BG11 BG12 BG13 AP01 CB01 CP02

INL SIGN MH MP W

LEGEND

- AP01 HMA PAVEMENT TYPE 4 HT 58-28 V
- BG10 MGS GUARDRAIL 3
- BG11 MGS THRIE BEAM TRANSITION
- BG12 MGS GUARDRAIL TERMINAL EAT
- BG10 MGS GUARDRAIL TERMINAL TYPE 2
- CB01 CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- CP02 REINFORCED CONCRETE PAVEMENT APPROACH SLABS
- 2-INCH OVERLAY DEPTH
- 4-INCH OVERLAY DEPTH
- 4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

MEDIAN BARRIER			
STATION - STATION		LENGTH (FEET)	BARRIER TYPE
707CL+47.95	707CL+67.95	20.00	CONCRETE BARRIER TRANSITION TYPE S36A SPECIAL TO S36A SPECIAL, SPLIT
EB BARRIER SPLIT AT 707CL+67.95			
707CL+67.95	707CL+73.89	5.94	CONCRETE BARRIER TYPE S36 SPECIAL
707CL+73.89	707CL+88.89	15.00	COCNRETE BARRIER TRANSTION NJ32SF TO S36 SPECIAL
			JOHN NOLEN BRIDGE
709CL+32.96	709CL+47.96		COCNRETE BARRIER TRANSTION NJ32SF TO S36 SPECIAL
709CL+47.96	709CL+67.50		CONCRETE BARRIER TYPE S36 SPECIAL
WB BARRIER SPLIT AT 707CL+67.95			
707CL+67.95	707CL+77.00	9.05	CONCRETE BARRIER TYPE S42 SPECIAL
707CL+77.00	707CL+92.00	15.00	CONCRETE BARRIER TRANSTION NJ44SF TO S42 SPECIAL
			JOHN NOLEN BRIDGE
709CL+47.45	709CL+62.45	15.00	CONCRETE BARRIER TRANSTION NJ44SF TO S42 SPECIAL
709CL+62.45	709CL+67.50	5.05	CONCRETE BARRIER TYPE S42 SPECIAL
END BARRIER SPLIT AT 709CL+67.50			
709CL+67.50	709CL+87.50	20.00	CONCRETE BARRIER TRANSITION TYPE S36A SPECIALTO S36A SPECIAL, SPLIT
709CL+87.50	709CL+98.00	10.50	CONCRETE BARRIER TRANSITION TYPE S36A SPECIAL TO S42A SPECIAL
709CL+98.00	710CL+22.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
END TRANSITION TO JOHN NOLEN BRIDGE			
710CL+22.50	710CL+47.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
710CL+47.50	710CL+52.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.710CL+50)
710CL+52.50	710CL+77.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
710CL+77.50	715CL+72.50	495.00	CONCRETE BARRIER TYPE S56A SPECIAL
715CL+72.50	715CL+97.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
715CL+97.50	716CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.716CL+00)
716CL+02.50	716CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
716CL+27.50	716CL+52.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
716CL+52.00	717CL+75.54	123.54	CONCRETE BARRIER TYPE S42A SPECIAL
BEGIN TRANSITION TO RAILROAD BRIDGE (SEE CONSTRUCTION DETAILS FOR MORE INFORMATION)			
717CL+75.54	717CL+86.04	10.50	CONCRETE BARRIER TRANSITION TYPE S36A SPECIAL TO S42A SPECIAL
717CL+86.04	718CL+06.04	20.00	CONCRETE BARRIER TRANSITION TYPE S36A SPECIAL TO S36A SPECIAL, SPLIT
718CL+06.04	718CL+74.01	67.97	CONCRETE BARRIER TYPE S36A SPECIAL, SPLIT
718CL+74.01	718CL+89.01	15.00	CONCRETE BARRIER TRANSITION NJ32SF TO S36A SPECIAL, SPLIT
			RAILROAD BRIDGE
721CL+06.36	721CL+21.36	15.00	CONCRETE BARRIER TRANSITION NJ32SF TO S36 SPECIAL, SPLIT
721CL+21.36	721CL+93.25	71.89	CONCRETE BARRIER TYPE S36 SPECIAL, SPLIT
721CL+93.25	722CL+13.25	20.00	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S36 SPECIAL SPLIT
722CL+13.25	722CL+23.75	10.50	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S42 SPECIAL
END TRANSITION TO RAILROAD BRIDGE			
722CL+23.75	724CL+53.00	229.25	CONCRETE BARRIER TYPE S42 SPECIAL

MEDIAN TOE OF BARRIER							
	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
JOHN NOLEN DRIVE BRIDGE B-13-37 (EB) / B-13-195 (WB)							
709+50	1.62%	-1.54	874.23	3.38	877.61	1.00	1.38%
710+00	1.64%	-1.52	875.04	3.26	878.30	1.00	1.50%
710+50	1.60%	-1.51	875.86	3.19	879.05	1.00	1.52%
711+00	1.62%	-1.51	876.66	3.15	879.81	1.00	1.42%
711+50	1.62%	-1.49	877.47	3.05	880.52	1.00	1.32%
712+00	1.62%	-1.47	878.28	2.90	881.18	1.00	1.26%
712+50	1.50%	-1.44	879.09	2.72	881.81	1.00	1.08%
713+00	1.40%	-1.40	879.84	2.51	882.35	1.00	0.88%
713+50	1.44%	-1.36	880.54	2.25	882.79	1.00	0.50%
714+00	1.10%	-1.29	881.26	1.78	883.04	1.00	0.52%
714+50	1.08%	-1.24	881.81	1.49	883.30	1.00	0.44%
715+00	0.84%	-1.19	882.35	1.17	883.52	1.00	0.14%
715+50	0.52%	-1.13	882.77	0.82	883.59	1.00	0.00%
716+00	0.46%	-1.09	883.03	0.56	883.59	1.00	-0.12%
716+50	0.32%	-1.04	883.26	0.27	883.53	1.00	0.24%
717+00	0.26%	-1.04	883.42	0.23	883.65	1.00	0.18%
717+50	-0.02%	-1.03	883.55	0.19	883.74	1.00	0.02%
718+00	-0.02%	-1.03	883.54	0.21	883.75	1.00	-0.10%
718+50		-1.03	883.53	0.17	883.70	1.00	
RAILROAD BRIDGE B-13-280 (EB & WB)							
721+50	-0.60%	-1.00	882.64	-0.07	882.57	1.01	-0.76%
722+00	-0.58%	-1.00	882.34	-0.15	882.19	1.02	-0.70%
722+50	-0.54%	-1.00	882.05	-0.21	881.84	1.03	-0.48%
723+00	-0.58%	-1.00	881.78	-0.18	881.60	1.03	-0.52%

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N

ROYAL AVE

OSS 2-CHORD TRUSS BUTTERFLY
S-13-536

WB USH 12/18

EB USH 12/18

MATCHLINE 737+50

MATCHLINE 723+00

BG13 BG10 BG12 AP01 CB01

724CL 726CL 728CL 730CL 732CL 734CL 736CL

R/L USH 12/18

OSS 2-CHORD TRUSS BUTTERFLY
STA. 730+00

OSS 4-CHORD TRUSS FULL SPAN
S-13-549

OSS 4-CHORD TRUSS FULL SPAN
S-13-550

WISCONSIN & SOUTHERN RAILROAD

ROYAL AVENUE

LEGEND

- AP01 HMA PAVEMENT TYPE 4 HT 58-28 V
- BG10 MGS GUARDRAIL 3
- BG11 MGS THRIE BEAM TRANSITION
- BG12 MGS GUARDRAIL TERMINAL EAT
- BG13 MGS GUARDRAIL TERMINAL TYPE 2
- CB01 CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- 2-INCH OVERLAY DEPTH
- 4-INCH OVERLAY DEPTH
- 4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

2

MEDIAN BARRIER

STATION - STATION			LENGTH (FEET)	BARRIER TYPE
END TRANSITION TO RAILROAD BRIDGE				
722CL+23.75	-	724CL+53.00	229.25	CONCRETE BARRIER TYPE S42 SPECIAL
724CL+53.00	-	724CL+77.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
724CL+77.50	-	725CL+02.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
725CL+02.50	-	725CL+07.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.725CL+05)
725CL+07.50	-	725CL+32.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
725CL+32.50	-	725CL+57.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
725CL+57.00	-	729CL+48.00	391.00	CONCRETE BARRIER TYPE S42 SPECIAL
729CL+48.00	-	729CL+72.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
729CL+72.50	-	729CL+97.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
729CL+97.50	-	730CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.730CL+00)
730CL+02.50	-	730CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
730CL+27.50	-	730CL+52.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
730CL+52.00	-	734CL+98.00	446.00	CONCRETE BARRIER TYPE S42 SPECIAL
734CL+98.00	-	735CL+22.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
735CL+22.50	-	735CL+47.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
735CL+47.50	-	735CL+52.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.735CL+50)
735CL+52.50	-	735CL+77.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
735CL+77.50	-	736CL+02.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
736CL+02.00	-	736CL+78.00	76.00	CONCRETE BARRIER TYPE S42 SPECIAL
736CL+78.00	-	737CL+02.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL

MEDIAN TOE OF BARRIER

	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
723+00	-0.58%	-1.00	881.78	-0.18	881.60	1.03	-0.52%
723+50	-0.68%	-1.00	881.49	-0.15	881.34	1.02	-0.58%
724+00	-0.62%	-1.00	881.15	-0.10	881.05	1.01	-0.50%
724+50	-0.34%	-1.00	880.84	-0.04	880.80	1.01	-0.28%
725+00	-0.20%	-1.00	880.67	-0.01	880.66	1.00	-0.16%
725+50	0.14%	-1.00	880.57	0.01	880.58	1.00	0.16%
726+00	0.26%	-1.00	880.64	0.02	880.66	1.00	0.26%
726+50	0.60%	-1.00	880.77	0.02	880.79	1.00	0.50%
727+00	0.60%	-1.00	881.07	-0.03	881.04	1.00	0.56%
727+50	0.64%	-1.00	881.37	-0.05	881.32	1.01	0.64%
728+00	0.60%	-1.00	881.69	-0.05	881.64	1.01	0.60%
728+50	0.54%	-1.00	881.99	-0.05	881.94	1.01	0.48%
729+00	0.56%	-1.00	882.26	-0.08	882.18	1.01	0.66%
729+50	0.68%	-1.00	882.54	-0.03	882.51	1.01	0.56%
730+00	0.66%	-1.00	882.88	-0.09	882.79	1.01	0.78%
730+50	0.68%	-1.00	883.21	-0.03	883.18	1.01	0.62%
731+00	0.66%	-1.00	883.55	-0.06	883.49	1.01	0.60%
731+50	0.62%	-1.00	883.88	-0.09	883.79	1.01	0.64%
732+00	0.62%	-1.00	884.19	-0.08	884.11	1.01	0.74%
732+50	0.64%	-1.00	884.50	-0.02	884.48	1.00	0.70%
733+00	0.66%	-1.00	884.82	0.01	884.83	1.00	0.58%
733+50	0.62%	-1.00	885.15	-0.03	885.12	1.00	0.64%
734+00	0.66%	-1.00	885.46	-0.02	885.44	1.00	0.68%
734+50	0.68%	-1.00	885.79	-0.01	885.78	1.00	0.68%
735+00	0.64%	-1.00	886.13	-0.01	886.12	1.00	0.66%
735+50	0.54%	-1.00	886.45	0.00	886.45	1.00	0.64%
736+00	0.54%	-1.00	886.72	0.05	886.77	0.99	0.62%
736+50	0.62%	-1.02	886.99	0.09	887.08	1.00	0.62%
737+00	0.60%	-1.01	887.30	0.09	887.39	1.00	0.60%

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2

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NANA LANE

SOUTH TOWNE DRIVE

SOUTH TOWNE DRIVE NW RAMP

STRUCTURE B-13-310

R/L USH 12/18

WB USH 12/18

EB USH 12/18

MATCHLINE 737+50

738CL 740CL 742CL 744CL 746CL 748CL 750CL 752

MATCHLINE 752+00

AP01 CB01

OSS 2-CHORD TRUSS BUTTERFLY
S-13-2006

SOUTH TOWNE DRIVE SW RAMP

ROYAL AVENUE

SIGN INL MH W

LEGEND

- AP01 HMA PAVEMENT TYPE 4 HT 58-28 V
- BG10 MGS GUARDRAIL 3
- BG11 MGS GUARDRAIL TERMINAL TYPE 2
- CB01 CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- 2-INCH OVERLAY DEPTH
- 4-INCH OVERLAY DEPTH
- 4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\021226_pd.dgn PLOT DATE : 2/20/2020 12:32:47 PM PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

2

MEDIAN BARRIER

STATION - STATION			LENGTH (FEET)	BARRIER TYPE
736CL+78.00	-	737CL+02.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
737CL+02.50	-	737CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
737CL+27.50	-	737CL+32.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.737CL+30)
737CL+32.50	-	737CL+57.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
737CL+57.50	-	737CL+82.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
737CL+82.00	-	743CL+00.00	518.00	CONCRETE BARRIER TYPE S42 SPECIAL
743CL+00.00	-	743CL+48.00	48.00	CONCRETE BARRIER TYPE S42A SPECIAL
743CL+48.00	-	743CL+72.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
743CL+72.50	-	743CL+97.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
743CL+97.50	-	744CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.744CL+00)
744CL+02.50	-	744CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
744CL+27.50	-	744CL+52.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
744CL+52.00	-	745CL+00.00	48.00	CONCRETE BARRIER TYPE S42A SPECIAL
745CL+00.00	-	750CL+25.37	525.37	CONCRETE BARRIER TYPE S42 SPECIAL
BEGIN TRANSITION TO SOUTH TOWNE RETROFIT PIERS				
750CL+25.37	-	750CL+49.87	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
750CL+49.87	-	750CL+74.87	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
				SOUTH TOWNE RETROFIT PIERS
END TRANSITION TO SOUTH TOWNE RETROFIT PIERS				
751CL+96.21	-	752CL+22.50	26.29	CONCRETE BARRIER TYPE 56 VERTICAL SPECIAL

MEDIAN TOE OF BARRIER

	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
737+00	0.60%	-1.01	887.30	0.09	887.39	1.00	0.60%
737+50	0.48%	-1.02	887.60	0.09	887.69	1.00	0.48%
738+00	0.36%	-1.01	887.84	0.09	887.93	1.00	0.28%
738+50	0.02%	-1.00	888.02	0.05	888.07	0.99	0.20%
739+00	-0.12%	-1.02	888.03	0.14	888.17	1.00	-0.30%
739+50	-0.50%	-1.00	887.97	0.05	888.02	0.99	-0.52%
740+00	-0.60%	-1.00	887.72	0.04	887.76	0.99	-0.54%
740+50	-0.94%	-1.01	887.42	0.07	887.49	1.00	-1.02%
741+00	-1.06%	-1.00	886.95	0.03	886.98	1.00	-1.12%
741+50	-1.44%	-1.00	886.42	0.00	886.42	1.00	-1.42%
742+00	-1.56%	-1.00	885.70	0.01	885.71	1.00	-1.48%
742+50	-1.86%	-1.01	884.92	0.05	884.97	1.00	-1.76%
743+00	-1.88%	-1.02	883.99	0.10	884.09	1.00	-1.78%
743+50	-2.36%	-1.02	883.05	0.15	883.20	1.00	-1.46%
744+00	-2.44%	-1.10	881.87	0.60	882.47	1.00	-1.84%
744+50	-2.80%	-1.14	880.65	0.90	881.55	1.00	-3.64%
745+00	-2.86%	-1.08	879.25	0.48	879.73	1.00	-3.64%
745+50	-2.94%	-1.01	877.82	0.09	877.91	1.00	-3.08%
746+00	-2.96%	-1.00	876.35	0.02	876.37	1.00	-3.00%
746+50	-2.94%	-1.00	874.87	0.00	874.87	1.00	-2.94%
747+00	-2.92%	-1.00	873.40	0.00	873.40	1.00	-2.94%
747+50	-2.60%	-1.00	871.94	-0.01	871.93	1.00	-2.62%
748+00	-2.62%	-1.00	870.64	-0.02	870.62	1.00	-2.58%
748+50	-1.86%	-1.00	869.33	0.00	869.33	1.00	-1.94%
749+00	-1.80%	-1.00	868.40	-0.04	868.36	1.01	-1.84%
749+50	-1.24%	-1.00	867.50	-0.06	867.44	1.01	-1.22%
750+00	-1.20%	-1.00	866.88	-0.05	866.83	1.01	-1.14%
750+50	-0.70%	-1.00	866.28	-0.02	866.26	1.00	-0.74%
751+00	-0.66%	-1.00	865.93	-0.04	865.89	1.01	-0.70%
751+50	-0.64%	-1.00	865.60	-0.06	865.54	1.01	-0.60%
752+00	-0.64%	-1.00	865.28	-0.04	865.24	1.01	-0.60%

2

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SOUTH TOWNE DRIVE

SOUTH TOWNE DRIVE NE RAMP

OSS 2-CHORD TRUSS BUTTERFLY
S-13-537

WB USH 12/18

EB USH 12/18

R/L USH 12/18

MATCHLINE 752+00

MATCHLINE 766+00

754CL 756CL 758CL 760CL 762CL 764CL

APO1

CBO1

SOUTH TOWNE DRIVE SE RAMP

ROYAL AVENUE

INL SIGN MH MP

LEGEND

- APO1 — HMA PAVEMENT TYPE 4 HT 58-28 V
- CBO1 — CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- 2-INCH OVERLAY DEPTH
- 4-INCH OVERLAY DEPTH
- 4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\021227_pd.dgn PLOT DATE : 2/20/2020 12:32:50 PM PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

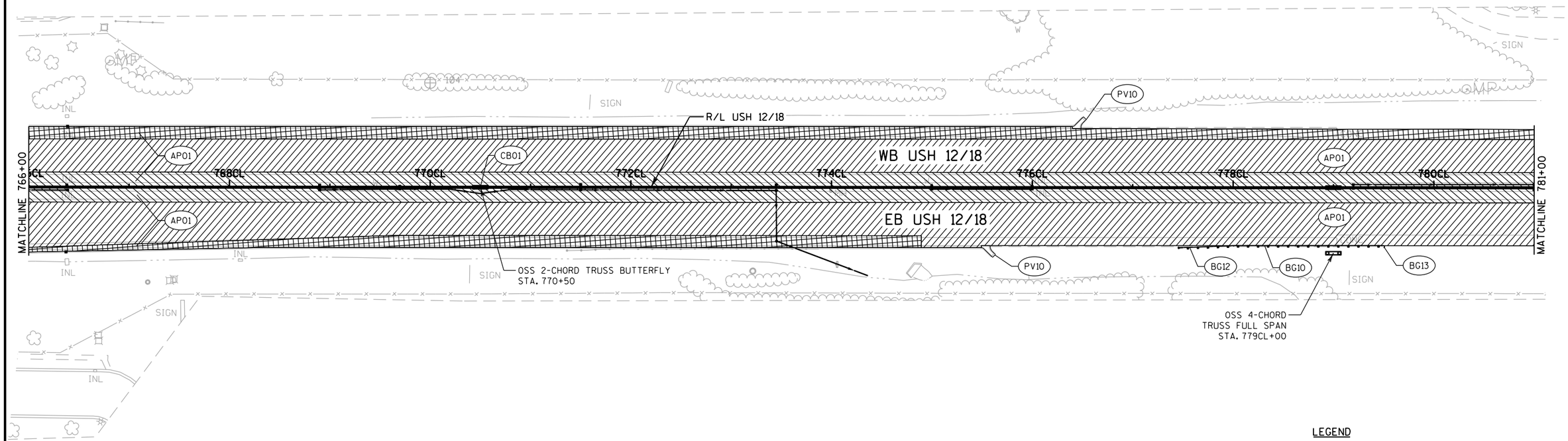
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MEDIAN BARRIER				
STATION - STATION			LENGTH (FEET)	BARRIER TYPE
END TRANSITION TO SOUTH TOWNE RETROFIT PIERS				
751CL+96.21	-	752CL+22.50	26.29	CONCRETE BARRIER TYPE 56 VERTICAL SPECIAL
752CL+22.50	-	752CL+27.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.752CL+25)
752CL+27.50	-	752CL+52.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
752CL+52.50	-	752CL+77.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
752CL+77.00	-	769CL+98.00	1,721.00	CONCRETE BARRIER TYPE S42 SPECIAL

MEDIAN TOE OF BARRIER							
	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
752+00	-0.64%	-1.00	865.28	-0.04	865.24	1.01	-0.60%
752+50	-0.50%	-1.00	864.96	-0.02	864.94	1.00	-0.46%
753+00	-0.46%	-1.00	864.71	0.00	864.71	1.00	-0.46%
753+50	-0.38%	-1.00	864.48	0.00	864.48	1.00	-0.38%
754+00	-0.36%	-1.00	864.29	0.00	864.29	1.00	-0.38%
754+50	-0.34%	-1.00	864.11	-0.01	864.10	1.00	-0.32%
755+00	-0.34%	-1.00	863.94	0.00	863.94	1.00	-0.32%
755+50	-0.32%	-1.00	863.77	0.01	863.78	1.00	-0.32%
756+00	-0.32%	-1.00	863.61	0.01	863.62	1.00	-0.34%
756+50	-0.36%	-1.00	863.45	0.00	863.45	1.00	-0.36%
757+00	-0.34%	-1.00	863.27	0.00	863.27	1.00	-0.36%
757+50	-0.30%	-1.00	863.10	-0.01	863.09	1.00	-0.34%
758+00	-0.32%	-1.00	862.95	-0.03	862.92	1.01	-0.36%
758+50	-0.36%	-1.00	862.79	-0.05	862.74	1.01	-0.34%
759+00	-0.36%	-1.00	862.61	-0.04	862.57	1.01	-0.38%
759+50	-0.30%	-1.00	862.43	-0.05	862.38	1.01	-0.40%
760+00	-0.34%	-1.00	862.28	-0.10	862.18	1.02	-0.38%
760+50	-0.40%	-1.00	862.11	-0.12	861.99	1.02	-0.34%
761+00	-0.40%	-1.00	861.91	-0.09	861.82	1.01	-0.34%
761+50	-0.36%	-1.00	861.71	-0.06	861.65	1.01	-0.36%
762+00	-0.34%	-1.00	861.53	-0.06	861.47	1.01	-0.36%
762+50	-0.32%	-1.00	861.36	-0.07	861.29	1.01	-0.34%
763+00	-0.34%	-1.00	861.20	-0.08	861.12	1.01	-0.36%
763+50	-0.42%	-1.00	861.03	-0.09	860.94	1.02	-0.40%
764+00	-0.40%	-1.00	860.82	-0.08	860.74	1.01	-0.38%
764+50	-0.36%	-1.00	860.62	-0.07	860.55	1.01	-0.36%
765+00	-0.38%	-1.00	860.44	-0.07	860.37	1.01	-0.36%
765+50	-0.40%	-1.00	860.25	-0.06	860.19	1.01	-0.32%
766+00	-0.36%	-1.00	860.05	-0.02	860.03	1.00	-0.46%

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LEGEND

- AP01 — HMA PAVEMENT TYPE 4 HT 58-28 V
- BG10 — MGS GUARDRAIL 3
- BG12 — MGS GUARDRAIL TERMINAL EAT
- BG10 — MGS GUARDRAIL TERMINAL TYPE 2
- CB01 — CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- PV10 — ASPHALITIC FLUMES
- 2-INCH OVERLAY DEPTH
- 4-INCH OVERLAY DEPTH
- 4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

2

MEDIAN BARRIER

STATION - STATION			LENGTH (FEET)	BARRIER TYPE
752CL+77.00	-	769CL+98.00	1,721.00	CONCRETE BARRIER TYPE S42 SPECIAL
769CL+98.00	-	770CL+22.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
770CL+22.50	-	770CL+47.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
770CL+47.50	-	770CL+52.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.770CL+50)
770CL+52.50	-	770CL+77.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
770CL+77.50	-	771CL+02.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
771CL+02.00	-	776CL+00.00	498.00	CONCRETE BARRIER TYPE S42 SPECIAL

MEDIAN TOE OF BARRIER

	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
766+00	-0.36%	-1.00	860.05	-0.02	860.03	1.00	-0.46%
766+50	-0.30%	-1.00	859.87	-0.07	859.80	1.01	-0.42%
767+00	-0.36%	-1.00	859.72	-0.13	859.59	1.02	-0.28%
767+50	-0.40%	-1.00	859.54	-0.09	859.45	1.01	-0.36%
768+00	-0.36%	-1.00	859.34	-0.07	859.27	1.01	-0.34%
768+50	-0.28%	-1.00	859.16	-0.06	859.10	1.01	-0.32%
769+00	-0.32%	-1.00	859.02	-0.08	858.94	1.01	-0.38%
769+50	-0.38%	-1.00	858.86	-0.11	858.75	1.02	-0.36%
770+00	-0.36%	-1.00	858.67	-0.10	858.57	1.02	-0.46%
770+50	-0.34%	-1.00	858.49	-0.15	858.34	1.02	-0.26%
771+00	-0.36%	-1.00	858.32	-0.11	858.21	1.02	-0.44%
771+50	-0.38%	-1.00	858.14	-0.15	857.99	1.02	-0.34%
772+00	-0.40%	-1.00	857.95	-0.13	857.82	1.02	-0.36%
772+50	-0.46%	-1.00	857.75	-0.11	857.64	1.02	-0.42%
773+00	-0.40%	-1.00	857.52	-0.09	857.43	1.02	-0.38%
773+50	-0.32%	-1.00	857.32	-0.08	857.24	1.01	-0.38%
774+00	-0.34%	-1.00	857.16	-0.11	857.05	1.02	-0.34%
774+50	-0.42%	-1.00	856.99	-0.11	856.88	1.02	-0.36%
775+00	-0.40%	-1.00	856.78	-0.08	856.70	1.01	-0.34%
775+50	-0.40%	-1.00	856.58	-0.05	856.53	1.01	-0.14%
776+00	-0.36%	-1.01	856.38	0.08	856.46	1.00	-0.16%
776+50	-0.28%	-1.03	856.20	0.18	856.38	1.00	-0.18%
777+00	-0.30%	-1.04	856.06	0.23	856.29	1.00	-0.22%
777+50	-0.40%	-1.04	855.91	0.27	856.18	1.00	-0.34%
778+00	-0.38%	-1.05	855.71	0.30	856.01	1.00	-0.38%
778+50	-0.32%	-1.05	855.52	0.30	855.82	1.00	-0.42%
779+00	-0.32%	-1.04	855.36	0.25	855.61	1.00	-0.38%
779+50	-0.40%	-1.03	855.20	0.22	855.42	1.00	-0.30%
780+00	-0.38%	-1.04	855.00	0.27	855.27	1.00	-0.30%
780+50	-0.44%	-1.05	854.81	0.31	855.12	1.00	-0.36%
781+00	-0.42%	-1.06	854.59	0.35	854.94	1.00	-0.34%

2

N

103

SIGN

OSS 2-CHORD TRUSS BUTTERFLY
S-13-538

OSS 4-CHORD
TRUSS FULL SPAN
WITH CANTILEVER
S-13-2008

CP02

W

MATCHLINE 781+00

APO1

782CL

784CL

786CL

788CL

790CL

792CL

794CL

796CL

WB USH 12/18

EB USH 12/18

CB01

BG10

BG11

BG12

R/L USH 12/18

SIGN

LEGEND

- APO1 HMA PAVEMENT TYPE 4 HT 58-28 V
- BG10 MGS GUARDRAIL 3
- BG11 MGS THRIE BEAM TRANSITION
- BG12 MGS GUARDRAIL TERMINAL EAT
- CB01 CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- CP02 REINFORCED CONCRETE PAVEMENT APPROACH SLABS
- 2-INCH OVERLAY DEPTH
- 4-INCH OVERLAY DEPTH
- 4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\021229_pd.dgn PLOT DATE : 2/27/2020 8:34:00 AM PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

2

MEDIAN BARRIER

STATION - STATION			LENGTH (FEET)	BARRIER TYPE
771CL+02.00	-	776CL+00.00	498.00	CONCRETE BARRIER TYPE S42 SPECIAL
776CL+00.00	-	783CL+98.00	798.00	CONCRETE BARRIER TYPE S42A SPECIAL
783CL+98.00	-	784CL+22.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
784CL+22.50	-	784CL+47.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
784CL+47.50	-	784CL+52.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.784CL+50)
784CL+52.50	-	784CL+77.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
784CL+77.50	-	785CL+02.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
785CL+02.00	-	793CL+88.00	886.00	CONCRETE BARRIER TYPE S42A SPECIAL
793CL+88.00	-	794CL+12.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
794CL+12.50	-	794CL+37.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
794CL+37.50	-	794CL+42.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.794CL+40)
794CL+42.50	-	794CL+67.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
794CL+67.50	-	794CL+92.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
794CL+92.00	-	795CL+94.66	102.66	CONCRETE BARRIER TYPE S42A SPECIAL
BEGIN TRANSITION TO YAHARA RIVER BRIDGE (SEE CONSTRUCTION DETAILS FOR MORE INFORMATION)				
795CL+94.66	-	796CL+05.16	10.50	CONCRETE BARRIER TRANSITION TYPE S36A SPECIAL TO S42A SPECIAL
796CL+05.16	-	796CL+15.16	10.00	CONCRETE BARRIER TRANSITION TYPE S36A SPECIAL TO S36A SPECIAL, SPLIT
796CL+15.16	-	796CL+21.47	6.31	CONCRETE BARRIER TYPE S36A SPECIAL, SPLIT
796CL+21.47	-	796CL+36.47	15.00	CONCRETE BARRIER TRANSITION NJ32SF TO S36A SPECIAL, SPLIT
				YAHARA RIVER BRIDGE

MEDIAN TOE OF BARRIER

	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
781+00	-0.42%	-1.06	854.59	0.35	854.94	1.00	-0.34%
781+50	-0.28%	-1.06	854.38	0.39	854.77	1.00	-0.34%
782+00	-0.32%	-1.06	854.24	0.36	854.60	1.00	-0.34%
782+50	-0.46%	-1.06	854.08	0.35	854.43	1.00	-0.40%
783+00	-0.44%	-1.06	853.85	0.38	854.23	1.00	-0.40%
783+50	-0.34%	-1.06	853.63	0.40	854.03	1.00	-0.40%
784+00	-0.36%	-1.06	853.46	0.37	853.83	1.00	-0.40%
784+50	-0.42%	-1.06	853.28	0.35	853.63	1.00	-0.40%
785+00	-0.38%	-1.06	853.07	0.36	853.43	1.00	-0.36%
785+50	-0.30%	-1.06	852.88	0.37	853.25	1.00	-0.32%
786+00	-0.34%	-1.06	852.73	0.36	853.09	1.00	-0.32%
786+50	-0.36%	-1.06	852.56	0.37	852.93	1.00	-0.30%
787+00	-0.38%	-1.06	852.38	0.40	852.78	1.00	-0.34%
787+50	-0.28%	-1.07	852.19	0.42	852.61	1.00	-0.38%
788+00	-0.18%	-1.06	852.05	0.37	852.42	1.00	-0.20%
788+50	-0.04%	-1.06	851.96	0.36	852.32	1.00	-0.04%
789+00	0.08%	-1.06	851.94	0.36	852.30	1.00	0.10%
789+50	0.22%	-1.06	851.98	0.37	852.35	1.00	0.10%
790+00	0.28%	-1.05	852.09	0.31	852.40	1.00	0.18%
790+50	0.32%	-1.04	852.23	0.26	852.49	1.00	0.30%
791+00	0.36%	-1.04	852.39	0.25	852.64	1.00	0.38%
791+50	0.40%	-1.04	852.57	0.26	852.83	1.00	0.38%
792+00	0.36%	-1.04	852.77	0.25	853.02	1.00	0.36%
792+50	0.30%	-1.04	852.95	0.25	853.20	1.00	0.36%
793+00	0.32%	-1.05	853.10	0.28	853.38	1.00	0.40%
793+50	0.48%	-1.05	853.26	0.32	853.58	1.00	0.48%
794+00	0.46%	-1.05	853.50	0.32	853.82	1.00	0.40%
794+50	0.44%	-1.05	853.73	0.29	854.02	1.00	0.12%
795+00	0.44%	-1.02	853.95	0.13	854.08	1.00	0.22%
795+50		-1.00	854.17	0.02	854.19	1.00	
YAHARA RIVER BRIDGE B-13-315 (EB) / B-13-316 (WB)							

2

2

N

MONONA DRIVE

MONONA DRIVE NW RAMP

MONONA DRIVE NE RAMP

MONONA DRIVE SW RAMP

MONONA DRIVE SE RAMP

WB USH 12/18

EB USH 12/18

R/L USH 12/18

OSS 2-CHORD TRUSS BUTTERFLY
S-13-2009

OSS 2-CHORD TRUSS BUTTERFLY
S-13-539

822CL

824CL

826CL

828CL

830CL

832CL

834CL

836CL

PC
831+51.83

PT
835+24.76

MATCHLINE 837+00

LEGEND

- (AP01) HMA PAVEMENT TYPE 4 HT 58-28 V
- (BG10) MGS GUARDRAIL 3
- (BG11) MGS THRIE BEAM TRANSITION
- (BG12) MGS GUARDRAIL TERMINAL EAT
- (BG13) MGS GUARDRAIL TERMINAL TYPE 2
- (CB01) CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- (CP02) REINFORCED CONCRETE PAVEMENT APPROACH SLABS
- 2-INCH OVERLAY DEPTH
- 4-INCH OVERLAY DEPTH
- 4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

2

MEDIAN BARRIER

STATION - STATION			LENGTH (FEET)	BARRIER TYPE
				YAHARA RIVER BRIDGE
822CL+38.17	-	822CL+53.17	15.00	CONCRETE BARRIER TRANSITION NJ32SF TO S36 SPECIAL, SPLIT
822CL+53.17	-	822CL+59.46	6.29	CONCRETE BARRIER TYPE S36 SPECIAL, SPLIT
822CL+59.46	-	822CL+69.46	10.00	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S36 SPECIAL SPLIT
822CL+69.46	-	822CL+79.96	10.50	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S42 SPECIAL
END TRANSITION TO YAHARA RIVER BRIDGE				
822CL+79.96	-	822CL+98.00	18.04	CONCRETE BARRIER TYPE S42 SPECIAL
822CL+98.00	-	823CL+22.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
823CL+22.50	-	823CL+47.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
823CL+47.50	-	823CL+52.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.823CL+50)
823CL+52.50	-	823CL+77.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
823CL+77.50	-	824CL+02.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
824CL+02.00	-	829CL+74.23	572.23	CONCRETE BARRIER TYPE S42 SPECIAL
829CL+74.23	-	829CL+98.73	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
829CL+98.73	-	830CL+23.73	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
830CL+23.73	-	830CL+28.73	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.830CL+26)
830CL+28.73	-	830CL+53.73	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
830CL+53.73	-	830CL+78.23	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
BEGIN TRANSITION TO MONONA DRIVE BRIDGE (SEE CONSTRUCTION DETAILS FOR MORE INFORMATION)				
830CL+78.23	-	830CL+88.73	10.50	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S42 SPECIAL
830CL+88.73	-	830CL+98.73	10.00	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S36 SPECIAL SPLIT
830CL+98.73	-	831CL+03.69	4.96	CONCRETE BARRIER TYPE S36 SPECIAL, SPLIT
831CL+03.69	-	831CL+18.69	15.00	CONCRETE BARRIER TRANSITION NJ32SF TO S36 SPECIAL, SPLIT
				MONONA DRIVE BRIDGE
832CL+55.08	-	832CL+70.08	15.00	CONCRETE BARRIER TRANSITION NJ32SF TO S36 SPECIAL, SPLIT
832CL+70.08	-	832CL+75.85	5.77	CONCRETE BARRIER TYPE S36 SPECIAL, SPLIT
832CL+75.85	-	832CL+85.85	10.00	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S36 SPECIAL SPLIT
832CL+85.85	-	832CL+96.35	10.50	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S42 SPECIAL
END TRANSITION TO MONONA DRIVE BRIDGE				
832CL+96.35	-	844CL+58.00	1,161.65	CONCRETE BARRIER TYPE S42 SPECIAL

MEDIAN TOE OF BARRIER

	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
YAHARA RIVER BRIDGE B-13-315 (EB) / B-13-316 (WB)							
822+50	-0.26%	-1.00	860.82	0.01	860.83	1.00	-0.24%
823+00	-0.02%	-1.00	860.69	0.02	860.71	1.00	0.02%
823+50	0.88%	-1.01	860.68	0.04	860.72	1.00	0.86%
824+00	1.08%	-1.00	861.12	0.03	861.15	1.00	1.06%
824+50	1.76%	-1.00	861.66	0.02	861.68	1.00	1.76%
825+00	1.90%	-1.00	862.54	0.02	862.56	1.00	1.92%
825+50	2.36%	-1.00	863.49	0.03	863.52	1.00	2.42%
826+00	2.30%	-1.01	864.67	0.06	864.73	1.00	2.34%
826+50	2.10%	-1.01	865.82	0.08	865.90	1.00	2.06%
827+00	1.98%	-1.01	866.87	0.06	866.93	1.00	1.94%
827+50	1.54%	-1.01	867.86	0.04	867.90	1.00	1.56%
828+00	1.46%	-1.01	868.63	0.05	868.68	1.00	1.44%
828+50	1.06%	-1.01	869.36	0.04	869.40	1.00	1.02%
829+00	0.90%	-1.00	869.89	0.02	869.91	1.00	0.88%
829+50	0.42%	-1.00	870.34	0.01	870.35	1.00	0.46%
830+00	0.34%	-1.01	870.55	0.03	870.58	1.00	0.38%
830+50		-1.01	870.72	0.05	870.77	1.00	
MONONA DRIVE BRIDGE B-13-317 (EB) / B-13-318 (WB)							
833+00	-1.32%	-1.00	869.50	-0.02	869.48	1.00	-1.32%
833+50	-1.56%	-1.00	868.84	-0.02	868.82	1.00	-1.58%
834+00	-1.70%	-1.00	868.06	-0.03	868.03	1.01	-1.72%
834+50	-2.14%	-1.00	867.21	-0.04	867.17	1.01	-2.10%
835+00	-2.22%	-1.00	866.14	-0.02	866.12	1.00	-2.20%
835+50	-2.52%	-1.00	865.03	-0.01	865.02	1.00	-2.48%
836+00	-2.54%	-1.00	863.77	0.01	863.78	1.00	-2.48%
836+50	-2.50%	-1.01	862.50	0.04	862.54	1.00	-2.42%
837+00	-2.44%	-1.01	861.25	0.08	861.33	1.00	-2.38%

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ATHLETIC FIELD

SLAB SIGN

INL

W

MH

W

W

INL

SIGN

MP

MP

SIGN

MONONA DRIVE NE RAMP

SIGN

AP01

WB USH 12/18

AP01

CB01

AP01

MATCHLINE 837+00

838CL

840CL

842CL

844CL

846CL

848CL

850CL

MATCHLINE 851+00

AP01

EB USH 12/18

AP01

MONONA DRIVE SE RAMP

AP01

BG12

BG10

BG13

SIGN

R/L USH 12/18

SIGN

OSS 4-CHORD
TRUSS FULL SPAN
WITH CANTILEVER
S-13-2035

LEGEND

- AP01 HMA PAVEMENT TYPE 4 HT 58-28 V
- BG10 MGS GUARDRAIL 3
- BG12 MGS GUARDRAIL TERMINAL EAT
- BG10 MGS GUARDRAIL TERMINAL TYPE 2
- CB01 CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- 2-INCH OVERLAY DEPTH
- 4-INCH OVERLAY DEPTH
- 4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\021233_pd.dgn PLOT DATE : 2/20/2020 12:33:04 PM PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

2

MEDIAN BARRIER				
STATION		STATION	LENGTH (FEET)	BARRIER TYPE
END TRANSITION TO MONONA DRIVE BRIDGE				
832CL+96.35	-	844CL+58.00	1,161.65	CONCRETE BARRIER TYPE S42 SPECIAL
844CL+58.00	-	844CL+82.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
844CL+82.50	-	845CL+07.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
845CL+07.50	-	845CL+12.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.845CL+10)
845CL+12.50	-	845CL+37.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
845CL+37.50	-	845CL+62.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
845CL+62.00	-	853CL+48.00	786.00	CONCRETE BARRIER TYPE S42 SPECIAL
853CL+48.00	-	853CL+72.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
853CL+72.50	-	853CL+97.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
853CL+97.50	-	854CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.854CL+00)
854CL+02.50	-	854CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
854CL+52.00	-	854CL+76.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
854CL+76.50	-	860CL+08.00	531.50	CONCRETE BARRIER TYPE S42 SPECIAL

MEDIAN TOE OF BARRIER							
	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
837+00	-2.44%	-1.01	861.25	0.08	861.33	1.00	-2.38%
837+50	-2.20%	-1.02	860.03	0.11	860.14	1.00	-2.24%
838+00	-2.06%	-1.01	858.93	0.09	859.02	1.00	-2.14%
838+50	-1.66%	-1.01	857.90	0.05	857.95	1.00	-1.68%
839+00	-1.56%	-1.01	857.07	0.04	857.11	1.00	-1.56%
839+50	-1.18%	-1.01	856.29	0.04	856.33	1.00	-1.18%
840+00	-1.06%	-1.01	855.70	0.04	855.74	1.00	-1.06%
840+50	-0.66%	-1.01	855.17	0.04	855.21	1.00	-0.62%
841+00	-0.62%	-1.01	854.84	0.06	854.90	1.00	-0.58%
841+50	-0.40%	-1.01	854.53	0.08	854.61	1.00	-0.42%
842+00	-0.38%	-1.01	854.33	0.07	854.40	1.00	-0.44%
842+50	-0.34%	-1.01	854.14	0.04	854.18	1.00	-0.46%
843+00	-0.38%	-1.00	853.97	-0.02	853.95	1.00	-0.44%
843+50	-0.52%	-1.00	853.78	-0.05	853.73	1.01	-0.38%
844+00	-0.46%	-1.00	853.52	0.02	853.54	1.00	-0.40%
844+50	-0.36%	-1.01	853.29	0.05	853.34	1.00	-0.34%
845+00	-0.36%	-1.01	853.11	0.06	853.17	1.00	-0.38%
845+50	-0.44%	-1.01	852.93	0.05	852.98	1.00	-0.42%
846+00	-0.42%	-1.01	852.71	0.06	852.77	1.00	-0.44%
846+50	-0.38%	-1.01	852.50	0.05	852.55	1.00	-0.40%
847+00	-0.40%	-1.01	852.31	0.04	852.35	1.00	-0.42%
847+50	-0.42%	-1.01	852.11	0.03	852.14	1.00	-0.34%
848+00	-0.42%	-1.01	851.90	0.07	851.97	1.00	-0.36%
848+50	-0.40%	-1.02	851.69	0.10	851.79	1.00	-0.44%
849+00	-0.40%	-1.01	851.49	0.08	851.57	1.00	-0.40%
849+50	-0.32%	-1.01	851.29	0.08	851.37	1.00	-0.38%
850+00	-0.26%	-1.01	851.13	0.05	851.18	1.00	-0.28%
850+50	0.00%	-1.01	851.00	0.04	851.04	1.00	0.02%
851+00	0.08%	-1.01	851.00	0.05	851.05	1.00	0.14%

2

N

OSS 4-CHORD TRUSS FULL SPAN
STA. 854+00

OSS 2-CHORD TRUSS BUTTERFLY
S-13-2010

BG13 BG10 BG12

SIGN

APO1 CBO1

WB USH 12/18

852CL 854CL 856CL 858CL 860CL 862CL 864CL

MATCHLINE 851+00

MATCHLINE 865+50

EB USH 12/18

R/L USH 12/18

OSS 4-CHORD TRUSS FULL SPAN
S-13-551

LEGEND

- APO1 HMA PAVEMENT TYPE 4 HT 58-28 V
- BG10 MGS GUARDRAIL 3
- BG12 MGS GUARDRAIL TERMINAL EAT
- BG13 MGS GUARDRAIL TERMINAL TYPE 2
- 2-INCH OVERLAY DEPTH
- 4-INCH OVERLAY DEPTH
- 4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\021234_pd.dgn PLOT DATE : 2/20/2020 12:33:07 PM PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

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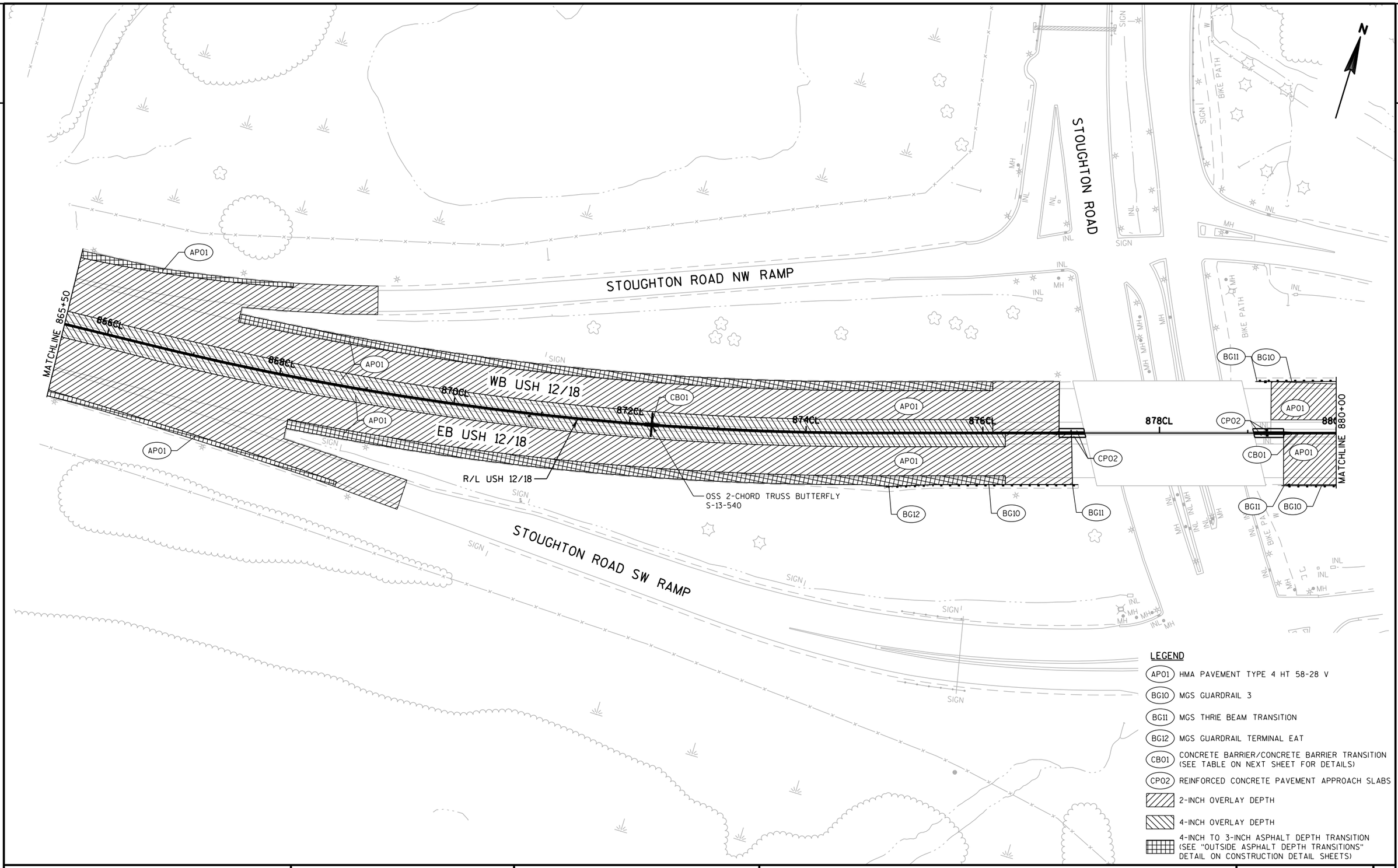
MEDIAN BARRIER

STATION - STATION			LENGTH (FEET)	BARRIER TYPE
854CL+76.50	-	860CL+08.00	531.50	CONCRETE BARRIER TYPE S42 SPECIAL
860CL+08.00	-	860CL+32.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
860CL+32.50	-	860CL+57.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
860CL+57.50	-	860CL+62.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.860CL+60)
860CL+62.50	-	860CL+87.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
860CL+87.50	-	861CL+12.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
861CL+12.00	-	863CL+98.00	286.00	CONCRETE BARRIER TYPE S42 SPECIAL
863CL+98.00	-	864CL+22.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
864CL+22.50	-	864CL+47.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
864CL+47.50	-	864CL+52.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.864CL+50)
864CL+52.50	-	864CL+77.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
864CL+77.50	-	871CL+97.50	720.00	CONCRETE BARRIER TYPE S56 SPECIAL

MEDIAN TOE OF BARRIER

	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
851+00	0.08%	-1.01	851.00	0.05	851.05	1.00	0.14%
851+50	0.40%	-1.01	851.04	0.08	851.12	1.00	0.48%
852+00	0.40%	-1.02	851.24	0.12	851.36	1.00	0.44%
852+50	0.38%	-1.02	851.44	0.14	851.58	1.00	0.34%
853+00	0.40%	-1.02	851.63	0.12	851.75	1.00	0.36%
853+50	0.42%	-1.02	851.83	0.10	851.93	1.00	0.38%
854+00	0.40%	-1.01	852.04	0.08	852.12	1.00	0.38%
854+50	0.38%	-1.01	852.24	0.07	852.31	1.00	0.38%
855+00	0.38%	-1.01	852.43	0.07	852.50	1.00	0.42%
855+50	0.38%	-1.01	852.62	0.09	852.71	1.00	0.44%
856+00	0.38%	-1.02	852.81	0.12	852.93	1.00	0.42%
856+50	0.46%	-1.02	853.00	0.14	853.14	1.00	0.32%
857+00	0.44%	-1.01	853.23	0.07	853.30	1.00	0.34%
857+50	0.44%	-1.00	853.45	0.02	853.47	1.00	0.38%
858+00	0.42%	-1.00	853.67	-0.01	853.66	1.00	0.40%
858+50	0.42%	-1.00	853.88	-0.02	853.86	1.00	0.50%
859+00	0.42%	-1.00	854.09	0.02	854.11	1.00	0.48%
859+50	0.36%	-1.01	854.30	0.05	854.35	1.00	0.38%
860+00	0.38%	-1.01	854.48	0.06	854.54	1.00	0.40%
860+50	0.44%	-1.01	854.67	0.07	854.74	1.00	0.40%
861+00	0.44%	-1.01	854.89	0.05	854.94	1.00	0.40%
861+50	0.44%	-1.01	855.11	0.03	855.14	1.00	0.40%
862+00	0.44%	-1.00	855.33	0.01	855.34	1.00	0.42%
862+50	0.48%	-1.00	855.55	0.00	855.55	1.00	0.42%
863+00	0.54%	-1.00	855.79	-0.03	855.76	1.01	0.48%
863+50	0.72%	-1.00	856.06	-0.06	856.00	1.01	0.76%
864+00	0.78%	-1.00	856.42	-0.04	856.38	1.01	0.84%
864+50	1.08%	-1.00	856.81	-0.01	856.80	1.00	1.16%
865+00	1.48%	-1.00	857.35	0.03	857.38	1.00	1.26%

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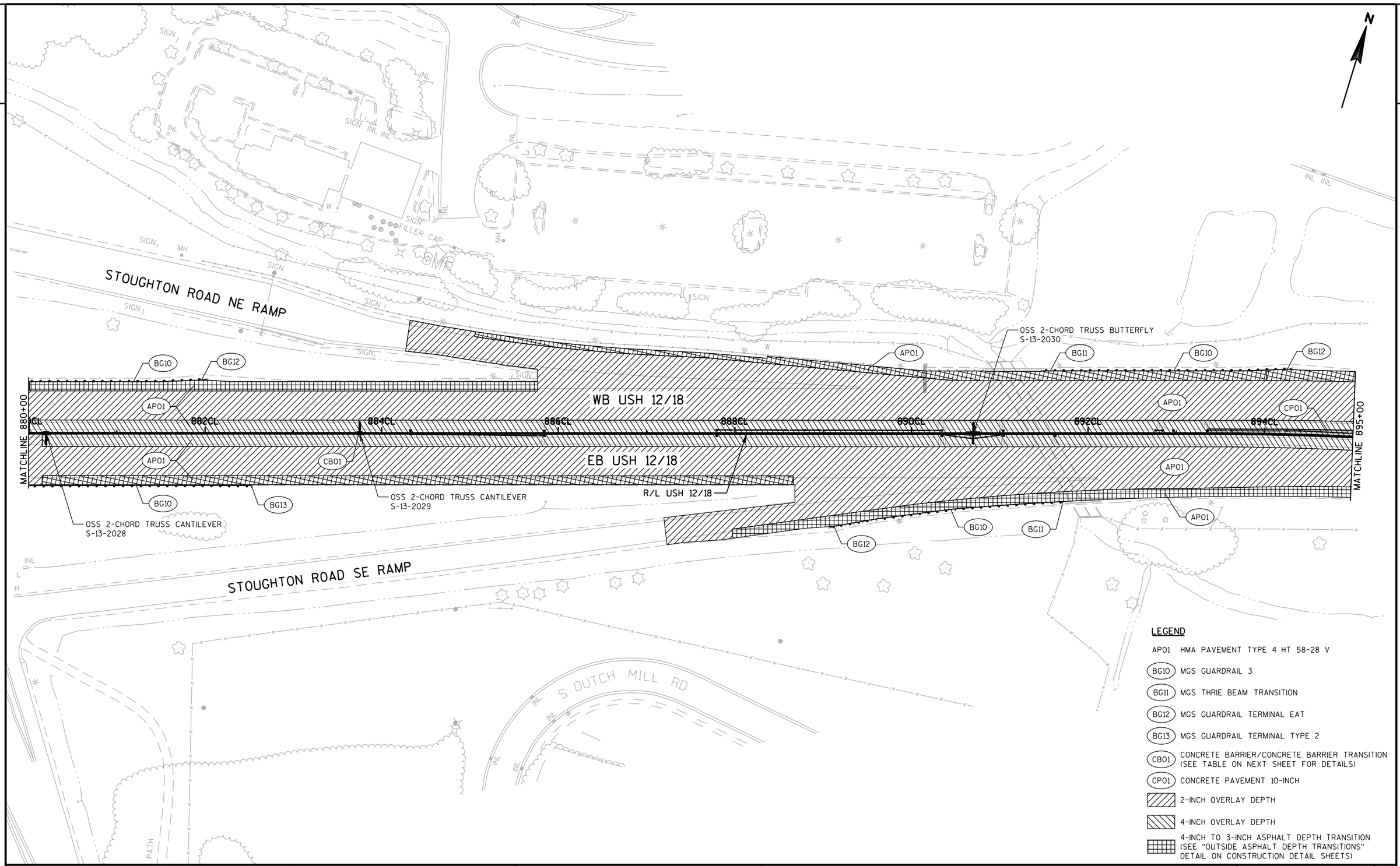
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

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MEDIAN BARRIER			
STATION - STATION			LENGTH (FEET)	BARRIER TYPE
864CL+77.50	-	871CL+97.50	720.00	CONCRETE BARRIER TYPE S56 SPECIAL
871CL+97.50	-	872CL+22.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
872CL+22.50	-	872CL+27.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.872CL+25)
872CL+27.50	-	872CL+52.50	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
872CL+52.50	-	876CL+41.37	388.87	CONCRETE BARRIER TYPE S56 SPECIAL
BEGIN TRANSITION TO STOUGHTON ROAD BRIDGE (SEE CONSTRUCTION DETAILS FOR MORE INFORMATION)				
876CL+41.37	-	876CL+65.87	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
876CL+65.87	-	876CL+76.37	10.50	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S42 SPECIAL
876CL+76.37	-	876CL+86.37	10.00	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S36 SPECIAL SPLIT
876CL+86.37	-	877CL+00.52	14.15	CONCRETE BARRIER TYPE S36 SPECIAL, SPLIT
877CL+00.52	-	877CL+15.52	15.00	CONCRETE BARRIER TRANSITION NJ32SF TO S36 SPECIAL, SPLIT
				STOUGHTON ROAD BRIDGE
879CL+06.63	-	879CL+21.63	15.00	CONCRETE BARRIER TRANSITION NJ32SF TO S36 SPECIAL, SPLIT
879CL+21.63	-	879CL+40.56	18.93	CONCRETE BARRIER TYPE S36 SPECIAL, SPLIT
879CL+40.56	-	879CL+50.56	10.00	CONCRETE BARRIER TRANSITION TYPE S36 SPECIAL TO S42 SPECIAL
879CL+50.56	-	879CL+61.06	10.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
END TRANSITION TO STOUGHTON ROAD BRIDGE				
879CL+61.06	-	879CL+85.56	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
879CL+85.56	-	880CL+10.56	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL

MEDIAN TOE OF BARRIER							
	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
865+00	1.48%	-1.00	857.35	0.03	857.38	1.00	1.26%
865+50	1.64%	-1.00	858.09	-0.08	858.01	1.01	1.64%
866+00	1.58%	-1.00	858.91	-0.08	858.83	1.01	1.72%
866+50	1.86%	-1.00	859.70	-0.01	859.69	1.00	1.86%
867+00	2.02%	-1.00	860.63	-0.01	860.62	1.00	2.04%
867+50	2.16%	-1.00	861.64	0.00	861.64	1.00	2.20%
868+00	2.44%	-1.00	862.72	0.02	862.74	1.00	2.38%
868+50	2.62%	-1.00	863.94	-0.01	863.93	1.00	2.66%
869+00	2.62%	-1.00	865.25	0.01	865.26	1.00	2.70%
869+50	2.66%	-1.01	866.56	0.05	866.61	1.00	2.76%
870+00	2.70%	-1.02	867.89	0.10	867.99	1.00	2.76%
870+50	2.72%	-1.02	869.24	0.13	869.37	1.00	2.58%
871+00	2.46%	-1.01	870.60	0.06	870.66	1.00	2.40%
871+50	2.16%	-1.01	871.83	0.03	871.86	1.00	2.20%
872+00	1.90%	-1.01	872.91	0.05	872.96	1.00	1.96%
872+50	1.76%	-1.01	873.86	0.08	873.94	1.00	1.62%
873+00	1.52%	-1.00	874.74	0.01	874.75	1.00	1.44%
873+50	1.30%	-1.00	875.50	-0.03	875.47	1.01	1.26%
874+00	0.82%	-1.00	876.15	-0.05	876.10	1.01	1.04%
874+50	0.58%	-1.01	876.56	0.06	876.62	1.00	0.60%
875+00	0.44%	-1.00	876.85	0.07	876.92	0.99	0.36%
875+50	-0.08%	-1.00	877.07	0.03	877.10	0.99	0.02%
876+00	-0.24%	-1.01	877.03	0.08	877.11	1.00	-0.08%
876+50		-1.03	876.91	0.16	877.07	1.00	
STOUGHTON ROAD BRIDGE B-13-320 (WB) / B-13-321 (EB)							
879+50	-1.90%	-1.01	873.89	0.07	873.96	1.00	-2.02%
880+00	-2.06%	-1.00	872.94	0.01	872.95	1.00	-2.18%

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LEGEND

- AP01 HMA PAVEMENT TYPE 4 HT 58-28 V
- BG10 MGS GUARDRAIL 3
- BG11 MGS THRIE BEAM TRANSITION
- BG12 MGS GUARDRAIL TERMINAL EAT
- BG13 MGS GUARDRAIL TERMINAL TYPE 2
- CB01 CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- CP01 CONCRETE PAVEMENT 10-INCH
- 2-INCH OVERLAY DEPTH
- 4-INCH OVERLAY DEPTH
- 4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\021236_pd.dgn PLOT DATE : 2/20/2020 12:33:14 PM PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

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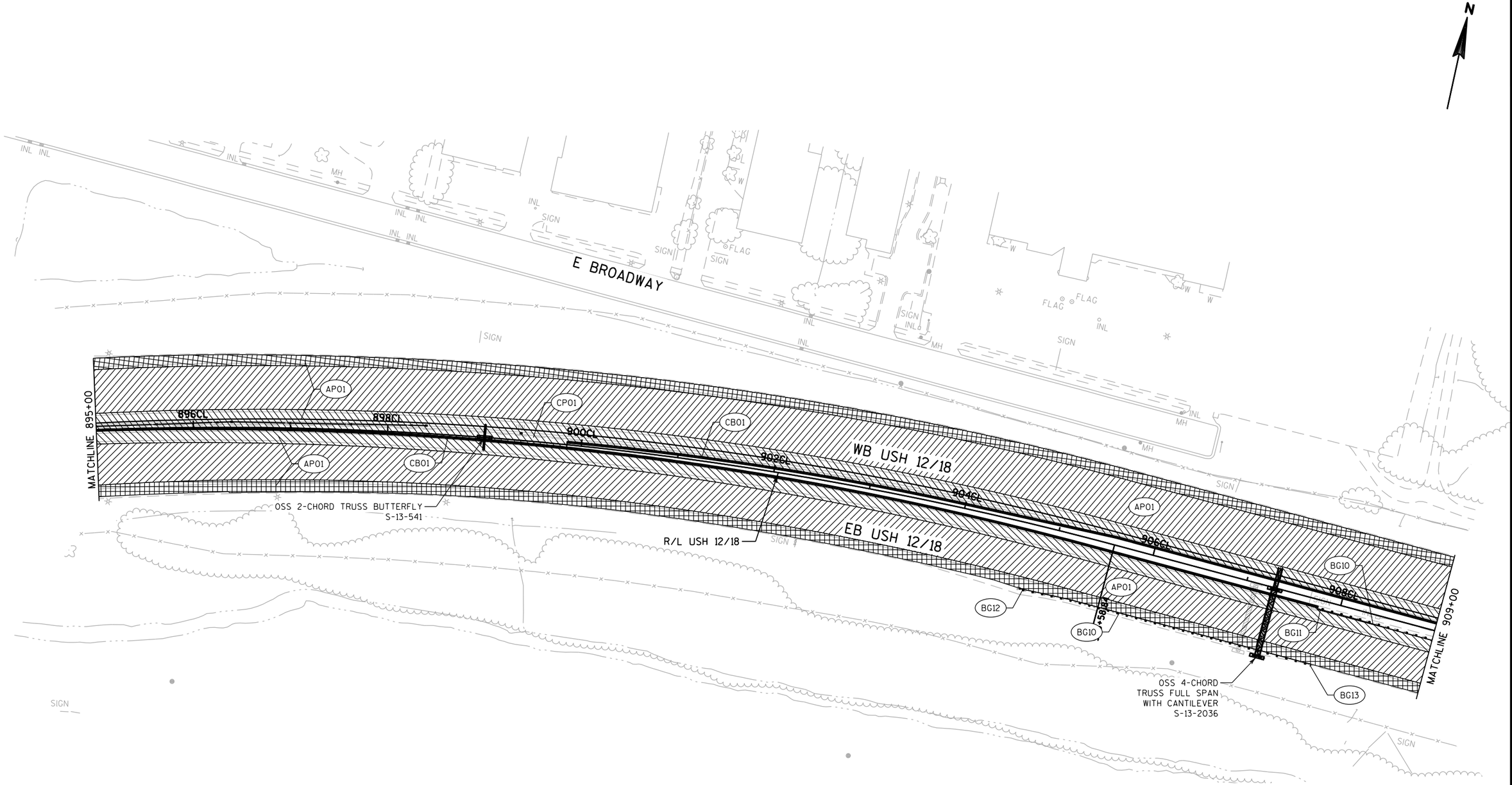
MEDIAN BARRIER

STATION - STATION			LENGTH (FEET)	BARRIER TYPE
879CL+85.56	-	880CL+10.56	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
880CL+10.56	-	880CL+15.56	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.880CL+13)
880CL+15.56	-	880CL+40.56	25.00	CONCRETE BARRIER TRANSITION S56 SPECIAL-56 VERTICAL SPECIAL
880CL+40.56	-	880CL+65.06	24.50	CONCRETE BARRIER TRANSITION TYPE S42 SPECIAL TO S56 SPECIAL
880CL+65.06	-	882CL+50.00	184.94	CONCRETE BARRIER TYPE S42 SPECIAL
882CL+50.00	-	883CL+23.00	73.00	CONCRETE BARRIER TYPE S42A SPECIAL
883CL+23.00	-	883CL+47.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
883CL+47.50	-	883CL+72.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
883CL+72.50	-	883CL+77.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.883CL+75)
883CL+77.50	-	884CL+02.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
884CL+02.50	-	884CL+27.00	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
884CL+27.00	-	890CL+18.00	591.00	CONCRETE BARRIER TYPE S42A SPECIAL
890CL+18.00	-	890CL+42.50	24.50	CONCRETE BARRIER TRANSITION TYPE S42A SPECIAL TO S56A SPECIAL
890CL+42.50	-	890CL+67.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
890CL+67.50	-	890CL+72.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.890CL+70)
890CL+72.50	-	890CL+97.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
890CL+97.50	-	893CL+35.21	237.71	CONCRETE BARRIER TYPE S56A SPECIAL
EB BARRIER SPLIT AT 893CL+35.21				
893CL+35.21	-	898CL+72.50	537.29	CONCRETE BARRIER TYPE S56A SPECIAL

MEDIAN TOE OF BARRIER

	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
880+00	-2.06%	-1.00	872.94	0.01	872.95	1.00	-2.18%
880+50	-2.46%	-1.00	871.91	-0.05	871.86	1.01	-2.54%
881+00	-2.50%	-1.00	870.68	-0.09	870.59	1.02	-2.58%
881+50	-2.68%	-1.00	869.43	-0.13	869.30	1.02	-2.60%
882+00	-2.64%	-1.00	868.09	-0.09	868.00	1.02	-2.66%
882+50	-2.60%	-1.00	866.77	-0.10	866.67	1.02	-2.74%
883+00	-2.50%	-1.00	865.47	-0.17	865.30	1.03	-2.60%
883+50	-2.26%	-1.00	864.22	-0.22	864.00	1.03	-2.26%
884+00	-2.06%	-1.00	863.09	-0.22	862.87	1.03	-2.04%
884+50	-1.48%	-1.00	862.06	-0.21	861.85	1.03	-1.48%
885+00	-1.22%	-1.00	861.32	-0.21	861.11	1.03	-1.36%
885+50	-0.56%	-1.00	860.71	-0.28	860.43	1.04	-0.74%
886+00	-0.54%	-1.00	860.43	-0.37	860.06	1.06	-0.28%
886+50	-0.48%	-1.00	860.16	-0.24	859.92	1.04	-0.32%
887+00	-0.42%	-1.00	859.92	-0.16	859.76	1.03	-0.34%
887+50	-0.26%	-1.00	859.71	-0.12	859.59	1.02	-0.34%
888+00	-0.26%	-1.00	859.58	-0.16	859.42	1.03	-0.30%
888+50	-0.22%	-1.00	859.45	-0.18	859.27	1.03	-0.22%
889+00	-0.22%	-1.00	859.34	-0.18	859.16	1.03	-0.26%
889+50	-0.24%	-1.00	859.23	-0.20	859.03	1.03	-0.30%
890+00	-0.18%	-1.00	859.11	-0.23	858.88	1.04	-0.24%
890+50	-0.06%	-1.00	859.02	-0.26	858.76	1.04	-0.10%
891+00	0.00%	-1.00	858.99	-0.28	858.71	1.04	-0.08%
891+50	0.14%	-1.00	858.99	-0.32	858.67	1.05	0.30%
892+00	0.14%	-1.00	859.06	-0.24	858.82	1.04	0.32%
892+50	0.20%	-1.00	859.13	-0.15	858.98	1.02	0.32%
893+00	0.18%	-0.99	859.23	-0.09	859.14	1.00	0.36%
893+50	0.10%	-1.00	859.32	0.00	859.32	1.03	0.42%
894+00	0.06%	-1.03	859.37	0.16	859.53	1.24	0.10%
894+50	0.24%	-1.03	859.40	0.18	859.58	1.46	0.14%
895+00	0.30%	-1.02	859.52	0.13	859.65	1.70	0.20%

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LEGEND

- APO1 — HMA PAVEMENT TYPE 4 HT 58-28 V
- BG10 — MGS GUARDRAIL 3
- BG11 — MGS THRIE BEAM TRANSITION
- BG12 — MGS GUARDRAIL TERMINAL EAT
- BG13 — MGS GUARDRAIL TERMINAL TYPE 2
- CB01 — CONCRETE BARRIER/CONCRETE BARRIER TRANSITION (SEE TABLE ON NEXT SHEET FOR DETAILS)
- CP01 — CONCRETE PAVEMENT 10-INCH
- 2-INCH OVERLAY DEPTH
- 4-INCH OVERLAY DEPTH
- 4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\021237_pd.dgn PLOT DATE : 2/20/2020 12:33:19 PM PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

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MEDIAN BARRIER				
STATION - STATION			LENGTH (FEET)	BARRIER TYPE
EB BARRIER SPLIT AT 893CL+35.21				
893CL+35.21	-	898CL+72.50	537.29	CONCRETE BARRIER TYPE S56A SPECIAL
898CL+72.50	-	898CL+97.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
898CL+97.50	-	899CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.899CL+00)
899CL+02.50	-	899CL+27.50	25.00	CONCRETE BARRIER TRANSITION S56A SPECIAL-56A VERTICAL SPECIAL
899CL+27.50	-	899CL+85.13	57.63	CONCRETE BARRIER TYPE S56A SPECIAL
899CL+85.13	-	907CL+77.80	792.67	CONCRETE BARRIER TYPE S56 SPECIAL
WB BARRIER SPLIT AT 899CL+85.12				
899CL+85.12	-	909CL+25.95	940.83	CONCRETE BARRIER TYPE S56 SPECIAL
END MEDIAN CONCRETE BARRIER AT 909CL+25.95				

MEDIAN TOE OF BARRIER							
	WB				EB		
STATION	GRADE TO NEXT STA.	OFFSET	ELEVATION	ELEVATION DELTA	ELEVATION	OFFSET	GRADE TO NEXT STA.
895+00	0.30%	-1.02	859.52	0.13	859.65	1.70	0.20%
895+50	0.34%	-1.01	859.67	0.08	859.75	1.93	0.28%
896+00	0.26%	-1.01	859.84	0.05	859.89	2.18	0.36%
896+50	0.08%	-1.02	859.97	0.10	860.07	2.44	0.30%
897+00	0.18%	-1.03	860.01	0.21	860.22	2.71	0.30%
897+50	0.26%	-1.04	860.10	0.27	860.37	2.98	0.26%
898+00	0.32%	-1.04	860.23	0.27	860.50	3.27	0.22%
898+50	0.24%	-1.04	860.39	0.22	860.61	3.56	0.22%
899+00	0.22%	-1.04	860.51	0.21	860.72	3.86	0.48%
899+50		-1.05	860.62	0.34	860.96	4.17	
START DUAL BARRIER							
900+00	0.24%	-3.71	860.85	0.46	861.31	4.49	0.86%
900+50	0.18%	-4.06	860.97	0.77	861.74	4.82	0.70%
901+00	0.22%	-4.36	861.06	1.03	862.09	5.16	0.66%
901+50	0.22%	-4.63	861.17	1.25	862.42	5.50	0.62%
902+00	0.30%	-4.87	861.28	1.45	862.73	5.85	0.54%
902+50	0.36%	-5.07	861.43	1.57	863.00	6.21	0.40%
903+00	0.32%	-5.23	861.61	1.59	863.20	6.58	0.30%
903+50	0.24%	-5.36	861.77	1.58	863.35	6.96	0.16%
904+00	0.22%	-5.45	861.89	1.54	863.43	7.34	0.04%
904+50	0.08%	-6.52	862.00	1.45	863.45	7.74	-0.30%
905+00	0.10%	-7.68	862.04	1.26	863.30	8.14	-0.40%
905+50	0.04%	-8.80	862.09	1.01	863.10	8.49	-0.50%
906+00	-0.02%	-9.00	862.11	0.74	862.85	8.50	-0.66%
906+50	0.02%	-9.00	862.10	0.42	862.52	8.50	-0.56%
907+00	0.04%	-9.00	862.11	0.13	862.24	8.50	-0.06%
907+50	0.16%	-9.00	862.13	0.08	862.21	8.50	0.00%
908+00	0.24%	-9.00	862.21	0.00	862.21	8.50	0.14%
908+50	0.24%	-9.00	862.33	-0.05	862.28	8.50	0.18%
909+00		-9.00	862.45	-0.08	862.37	8.50	

2

N

AGRICULTURE DRIVE

SIGN

SIGN

SIGN

MEDIAN BARRIER			
STATION - STATION		LENGTH (FEET)	BARRIER TYPE
916CL+97.50	- 917CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.917CL+00)

2

N

R/L USH 12/18

WB USH 12/18

EB USH 12/18

MATCHLINE 923+00

MATCHLINE 936+50

924CL 926CL 928CL 930CL 932CL 934CL 936CL

POE 13.96

BG10 BG12 BG12 AP01 BG10 BG10 BG13 BG11 BG11 BG11 AP01 AP01

BG10 BG12 BG12 AP01 BG10 BG11 BG11 AP01 BG10 AP01

OSS 4-CHORD TRUSS FULL SPAN
S-13-552

USH 12/18 EB TO
IH 39 SB RAMP

SIGN

NOIS

OMP

1256

LEGEND

- AP01 HMA PAVEMENT TYPE 4 HT 58-28 V
- BG10 MGS GUARDRAIL 3
- BG11 MGS TRIE BEAM TRANSITION
- BG12 MGS GUARDRAIL TERMINAL EAT
- BG13 MGS GUARDRAIL TERMINAL TYPE 2
- 2-INCH OVERLAY DEPTH
- 4-INCH OVERLAY DEPTH
- 4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

2

MEDIAN BARRIER			
STATION - STATION			LENGTH (FEET)	BARRIER TYPE
929CL+97.50	-	930CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.930CL+00)
932CL+97.50	-	933CL+02.50	5.00	S-13-XXX SIGN STRUCTURE COLUMN AND FOUNDATION (STA.933CL+00)

2

N

IH 39 SB TO
USH 12/18 WB RAMP

SIGN

SIGN

SIGN

T030
861.500

268

WB USH 12/18

MATCHLINE 936+50

AP01

AP01

R/L USH 12/18

938CL

BG12

BG10

BG13

2EB

AP01

BG10

END PROJECT
STA. 938CL+17.18

4EB

R/L EB USH 12/18

6EB

8EB

EB USH 12/18

10EB

12EB

OSS 4-CHORD TRUSS FULL SPAN
S-13-553

BG10

BG13

BG12

BG10

END CONSTRUCTION
STA. 11EB+41.87

BG13

USH 12/18 EB TO
IH 39 SB RAMP

AP01

LEGEND

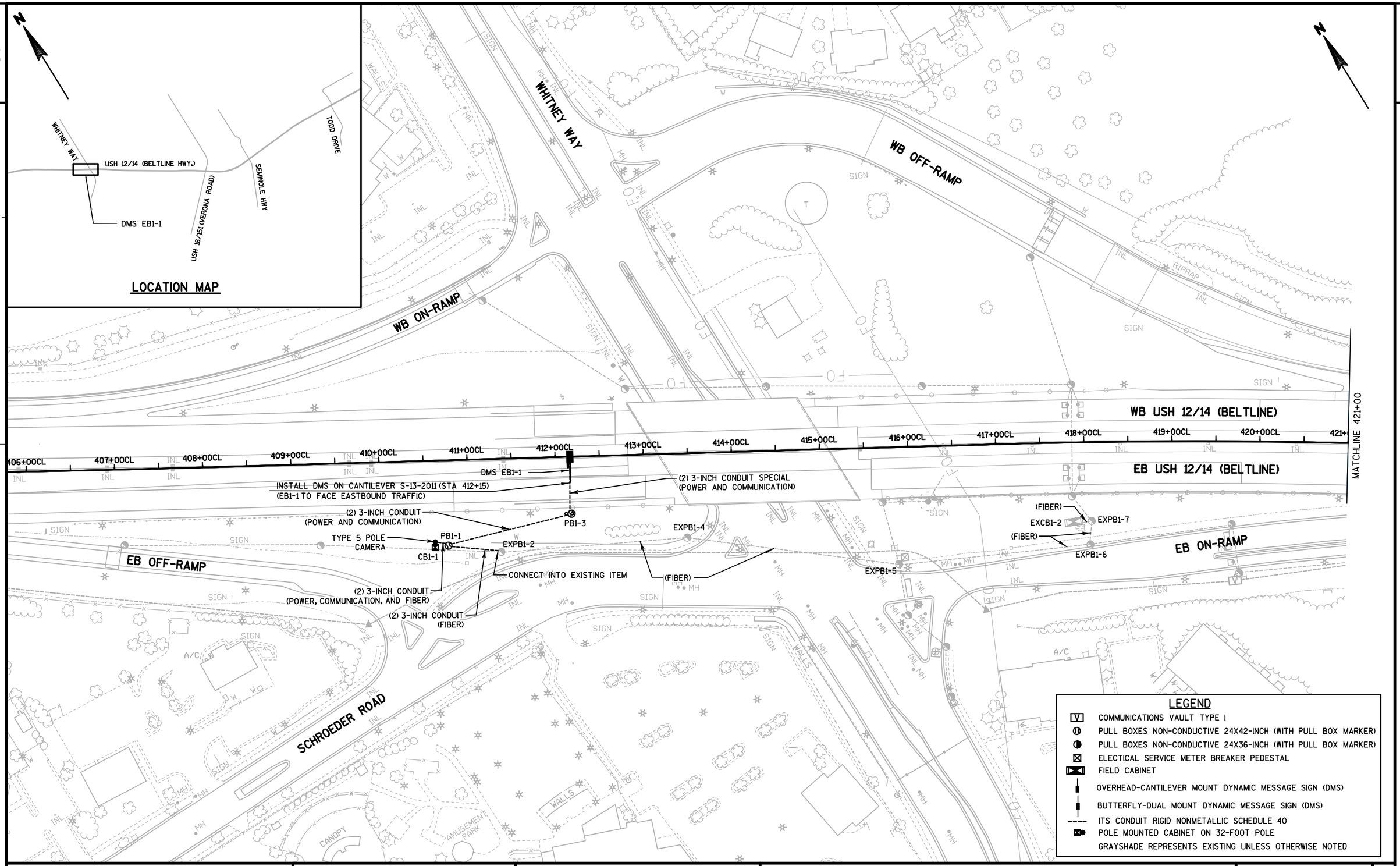
- AP01 HMA PAVEMENT TYPE 4 HT 58-28 V
- BG10 MGS GUARDRAIL 3
- BG12 MGS GUARDRAIL TERMINAL EAT
- BG13 MGS GUARDRAIL TERMINAL TYPE 2
- 2-INCH OVERLAY DEPTH
- 4-INCH OVERLAY DEPTH
- 4-INCH TO 3-INCH ASPHALT DEPTH TRANSITION (SEE "OUTSIDE ASPHALT DEPTH TRANSITIONS" DETAIL ON CONSTRUCTION DETAIL SHEETS)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN DETAILS	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\021240_pd.dgn PLOT DATE : 2/20/2020 12:33:29 PM PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

2

LOCATION MAP

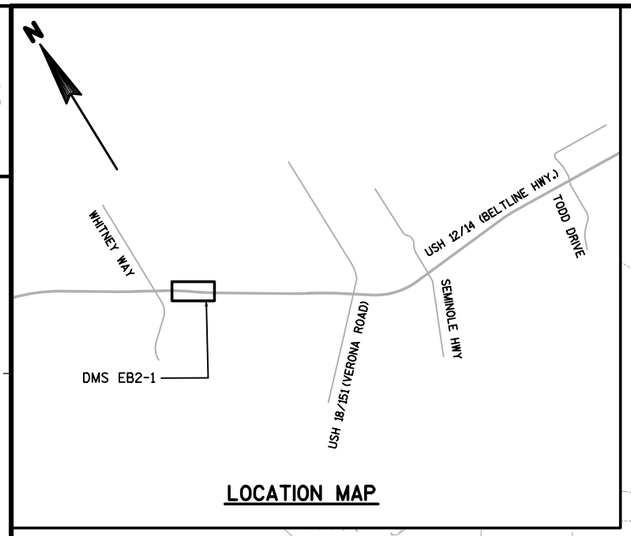


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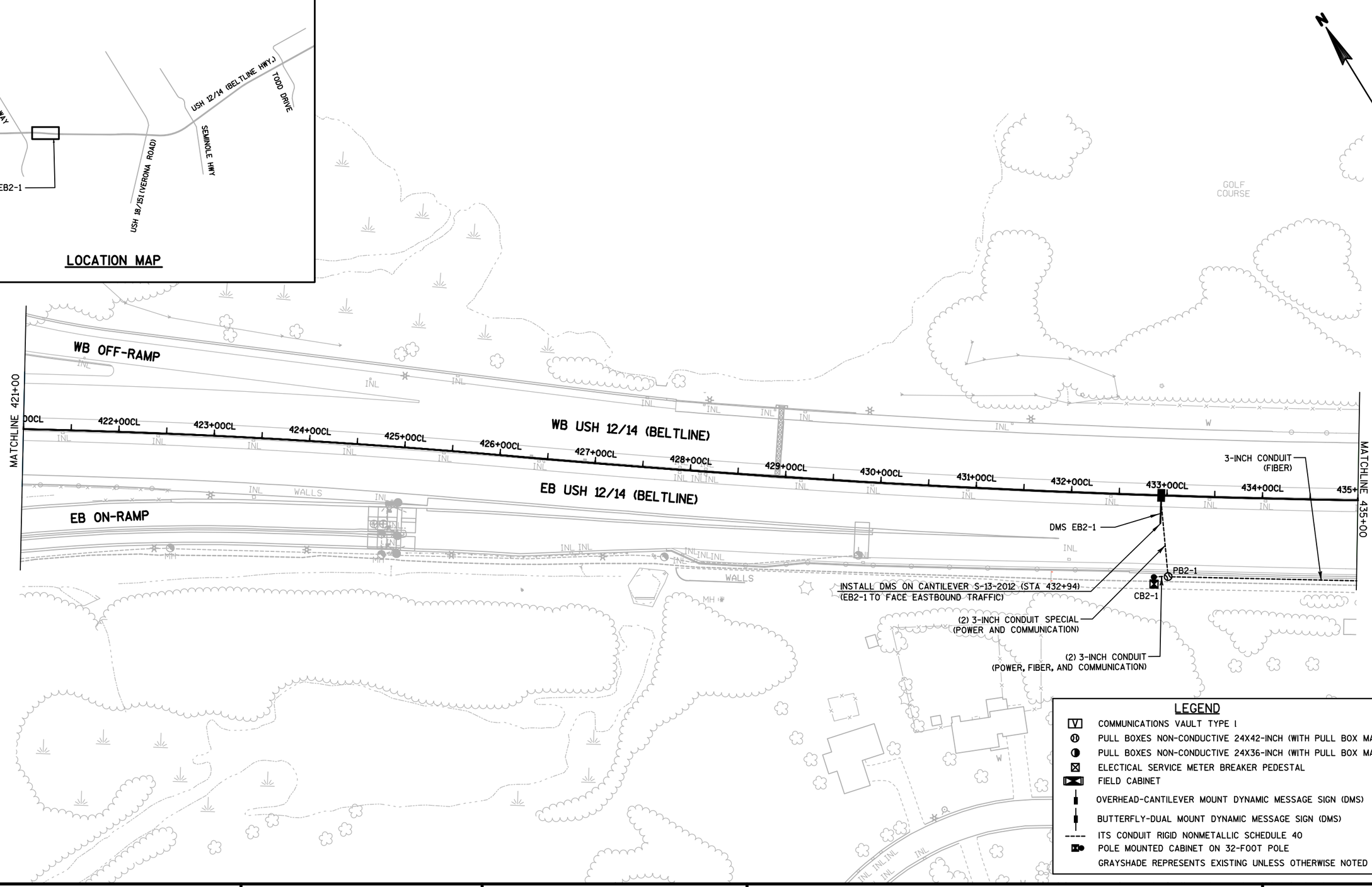
- COMMUNICATIONS VAULT TYPE I
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- ELECTICAL SERVICE METER BREAKER PEDESTAL
- FIELD CABINET
- OVERHEAD-CANTILEVER MOUNT DYNAMIC MESSAGE SIGN (DMS)
- BUTTERFLY-DUAL MOUNT DYNAMIC MESSAGE SIGN (DMS)
- ITS CONDUIT RIGID NONMETALLIC SCHEDULE 40
- POLE MOUNTED CABINET ON 32-FOOT POLE

GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E



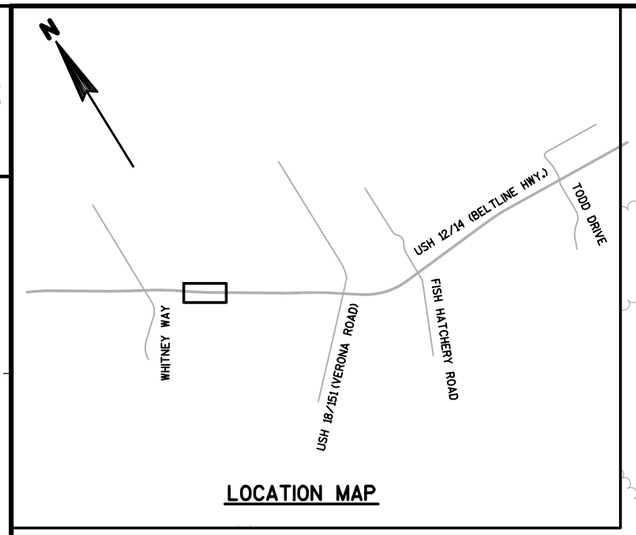
LOCATION MAP



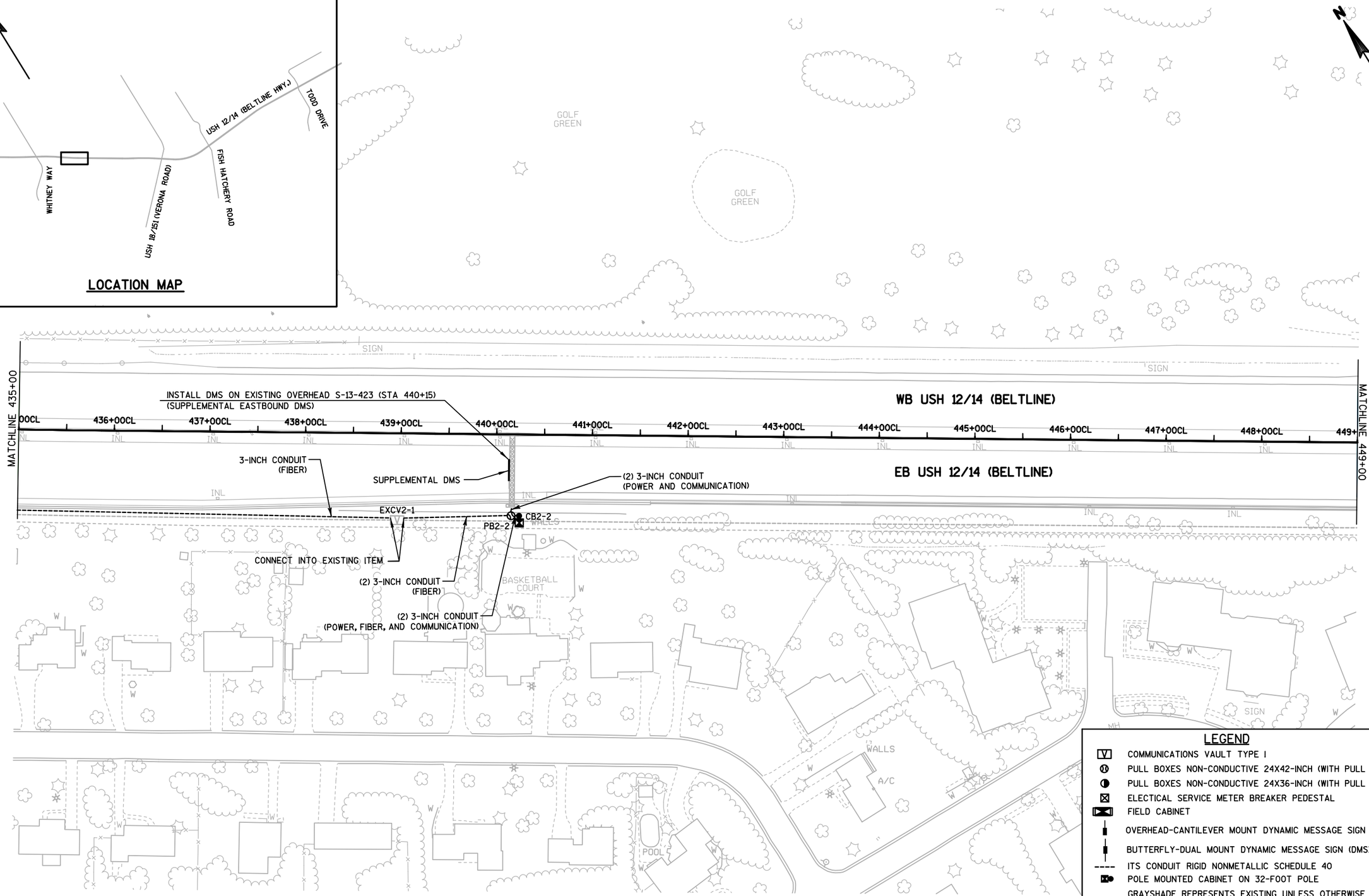
LEGEND

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- GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E



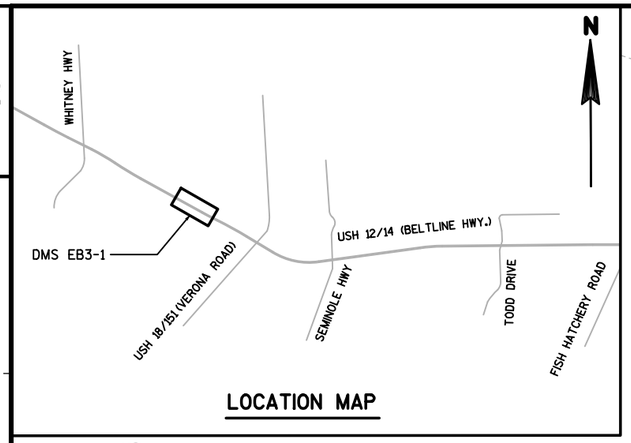
LOCATION MAP



LEGEND

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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E



2

GOLF GREEN
GOLF GREEN
GOLF COURSE
SOUTHWEST COMMUTER PATH
N

MATCHLINE 449+00

WB USH 12/14 (BELTLINE)

449+00CL 450+00CL 451+00CL 452+00CL 453+00CL 454+00CL 455+00CL 456+00CL 457+00CL 458+00CL 459+00CL 460+00CL 461+00CL 462+00CL 463+00CL 464+

MATCHLINE 464+00

EB USH 12/14 (BELTLINE)

DMS EB3-1

INSTALL DMS ON CANTILEVER S-13-2014 (STA 456+60)
(EB3-1 TO FACE EASTBOUND TRAFFIC)

(2) 3-INCH CONDUIT SPECIAL
(POWER AND COMMUNICATION)

CONNECT INTO EXISTING ITEM

PB3-1

EXCV3-1

CB3-1

(2) 3-INCH CONDUIT
(POWER, FIBER, AND COMMUNICATION)

3-INCH CONDUIT
(FIBER)

BIKE PATH

WALLS

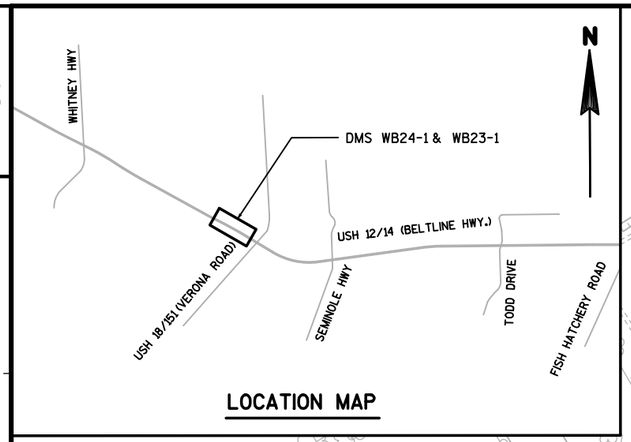
HAMMERSLEY ROAD

LEGEND

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- PULL BOXES NON-CONDUCTIVE 24X42-INCH (WITH PULL BOX MARKER)
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- FIELD CABINET
- OVERHEAD-CANTILEVER MOUNT DYNAMIC MESSAGE SIGN (DMS)
- BUTTERFLY-DUAL MOUNT DYNAMIC MESSAGE SIGN (DMS)
- ITS CONDUIT RIGID NONMETALLIC SCHEDULE 40
- POLE MOUNTED CABINET ON 32-FOOT POLE

GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E



LOCATION MAP

2

HAMMERSLEY ROAD

(2) 3-INCH CONDUIT
(POWER, FIBER, AND COMMUNICATION)

CB3-2

PB3-2

INSTALL DMS ON CANTILEVER S-13-2014 (STA 467+57)
(WB24-1 TO FACE WESTBOUND TRAFFIC)

WB ON-RAMP

(2) 3-INCH CONDUIT SPECIAL
(POWER AND COMMUNICATION)

DMS WB24-1

WB USH 12/14 (BELTLINE)

INSTALL DMS ON CANTILEVER S-13-2015 (STA 475+25)
(WB23-1 TO FACE WESTBOUND TRAFFIC)

(2) 3-INCH CONDUIT SPECIAL
(POWER AND COMMUNICATION)

(2) 3-INCH CONDUIT
(POWER AND COMMUNICATION)

PB3-3

EXPB3-4

CONNECT INTO EXISTING ITEM

DMS WB23-1

MATCHLINE 464+00

00CL 465+00CL 466+00CL 467+00CL 468+00CL 469+00CL 470+00CL 471+00CL 472+00CL 473+00CL 474+00CL 475+00CL 476+00CL 477+00CL 478+

MATCHLINE 478+00

3-INCH CONDUIT SPECIAL
(FIBER)

EB USH 12/14 (BELTLINE)

EB OFF-RAMP

CONNECT INTO EXISTING ITEM

EXCV3-2

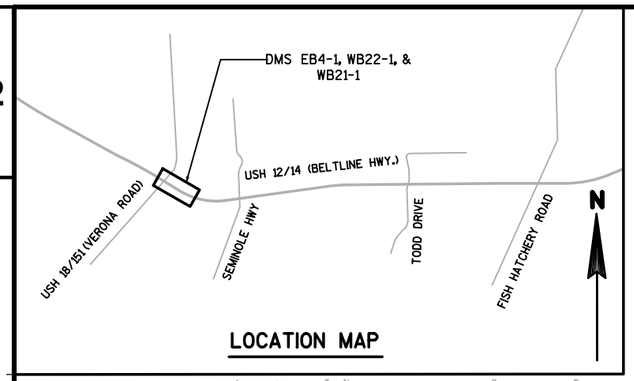
HAMMERSLEY ROAD

W4-2L WILL BE DISPLAYED ON DMS WB23-1

LEGEND

- COMMUNICATIONS VAULT TYPE I
- PULL BOXES NON-CONDUCTIVE 24X42-INCH (WITH PULL BOX MARKER)
- PULL BOXES NON-CONDUCTIVE 24X36-INCH (WITH PULL BOX MARKER)
- ELECTICAL SERVICE METER BREAKER PEDESTAL
- FIELD CABINET
- OVERHEAD-CANTILEVER MOUNT DYNAMIC MESSAGE SIGN (DMS)
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- POLE MOUNTED CABINET ON 32-FOOT POLE
- GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E



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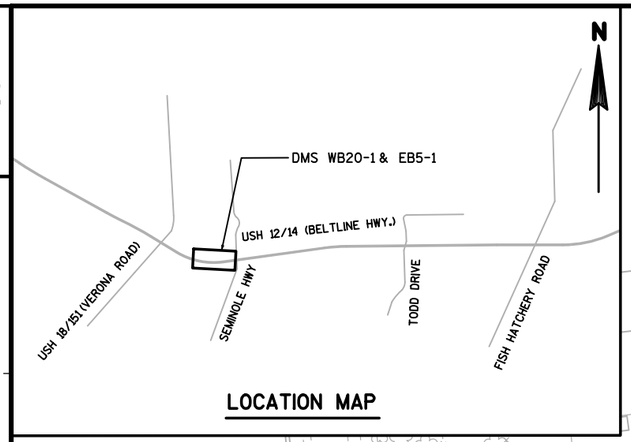
EXCB4-1
EXPB4-1
EXPB3-5
EXPB4-2
(POWER AND COMMUNICATION)
(POWER AND COMMUNICATION)
CONNECT INTO EXISTING ITEM
EXCV4-1
(2) 3-INCH CONDUIT (POWER AND COMMUNICATION)
PB4-3
(2) 3-INCH CONDUIT SPECIAL (POWER AND COMMUNICATION)
INSTALL DMS ON CANTILEVER S-13-2016 (STA 490+00) (WB21-1 TO FACE WESTBOUND TRAFFIC)
INSTALL DMS ON CANTILEVER S-13-2002 (STA 482+50) (WB22-1 TO FACE WESTBOUND TRAFFIC)
DMS WB22-1
DMS WB21-1
(2) 3-INCH CONDUIT (POWER AND COMMUNICATION)
MATCHLINE 478+00
MATCHLINE 492+00
479+00CL
480+00CL
481+00CL
482+00CL
484+00CL
485+00CL
486+00CL
487+00CL
488+00CL
489+00CL
490+00CL
491+00CL
PB4-4
PB4-6
WB USH 12/14 (BELTLINE)
(2) 3-INCH CONDUIT (POWER AND COMMUNICATION)
DMS EB4-1
DMS EB4-2
(2) 3-INCH CONDUIT SPECIAL (POWER AND COMMUNICATION)
EB USH 12/14 (BELTLINE)
INSTALL DMS ON CANTILEVER S-XX-XXXX (STA 490+15) (EB4-2 TO FACE EASTBOUND TRAFFIC)
EB ON-RAMP
PB4-5
CB4-2
BELTLINE FRONTAGE ROAD
(2) 3-INCH CONDUIT (POWER, FIBER, AND COMMUNICATION)
3-INCH CONDUIT (FIBER)
INSTALL DMS ON CANTILEVER S-XX-XXXX (STA 483+15) (EB4-1 TO FACE EASTBOUND TRAFFIC)
USH 18/151 (VERONA ROAD)
PLAYGROUND
CANOPY
N

LEGEND

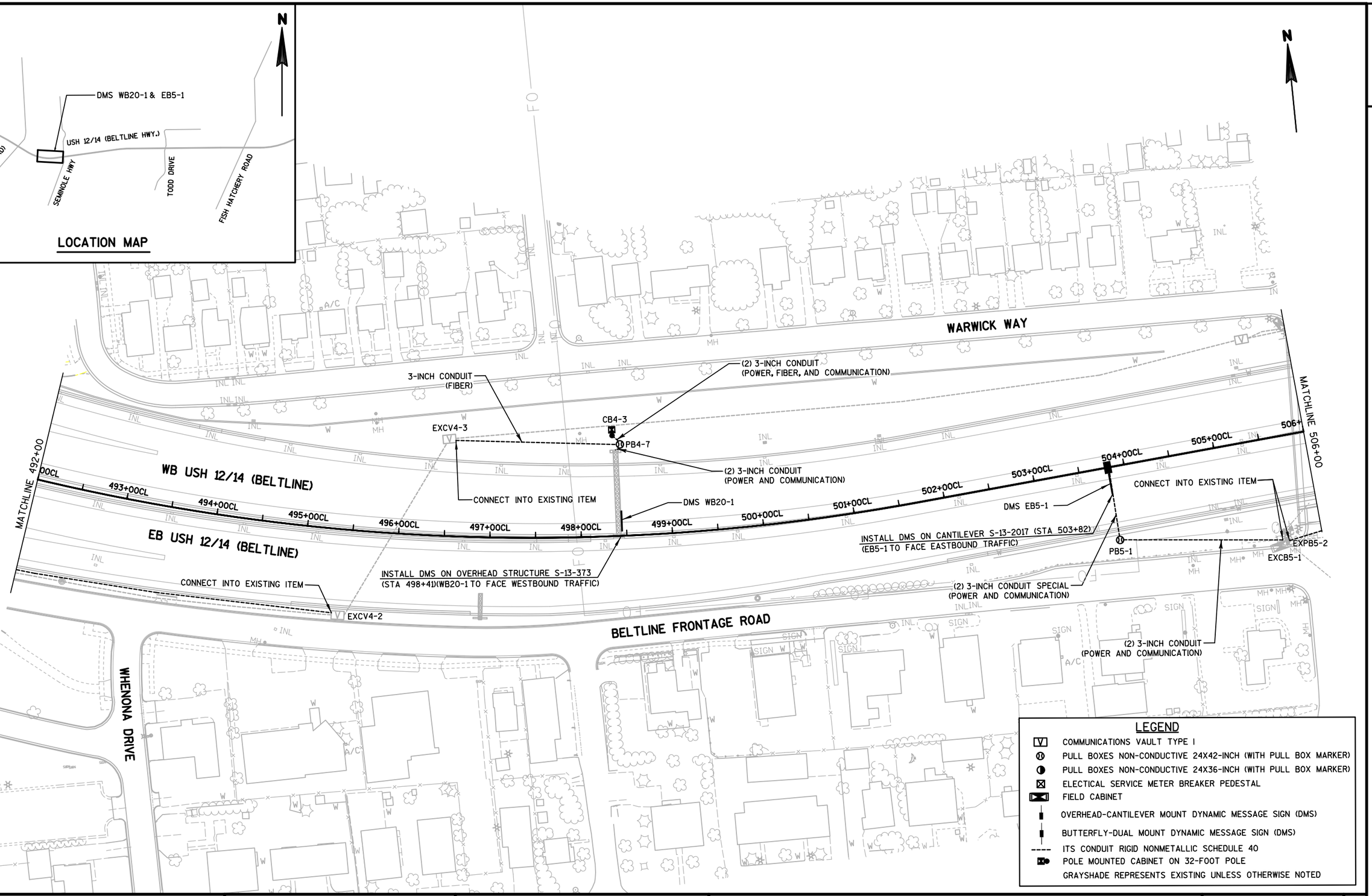
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- FIELD CABINET
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- ITS CONDUIT RIGID NONMETALLIC SCHEDULE 40
- POLE MOUNTED CABINET ON 32-FOOT POLE
- GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E

2



LOCATION MAP

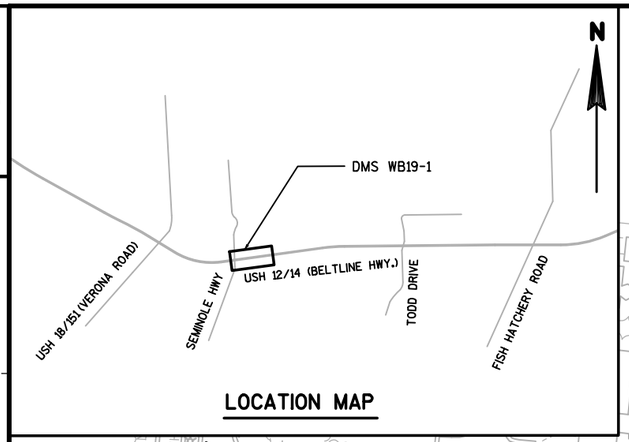


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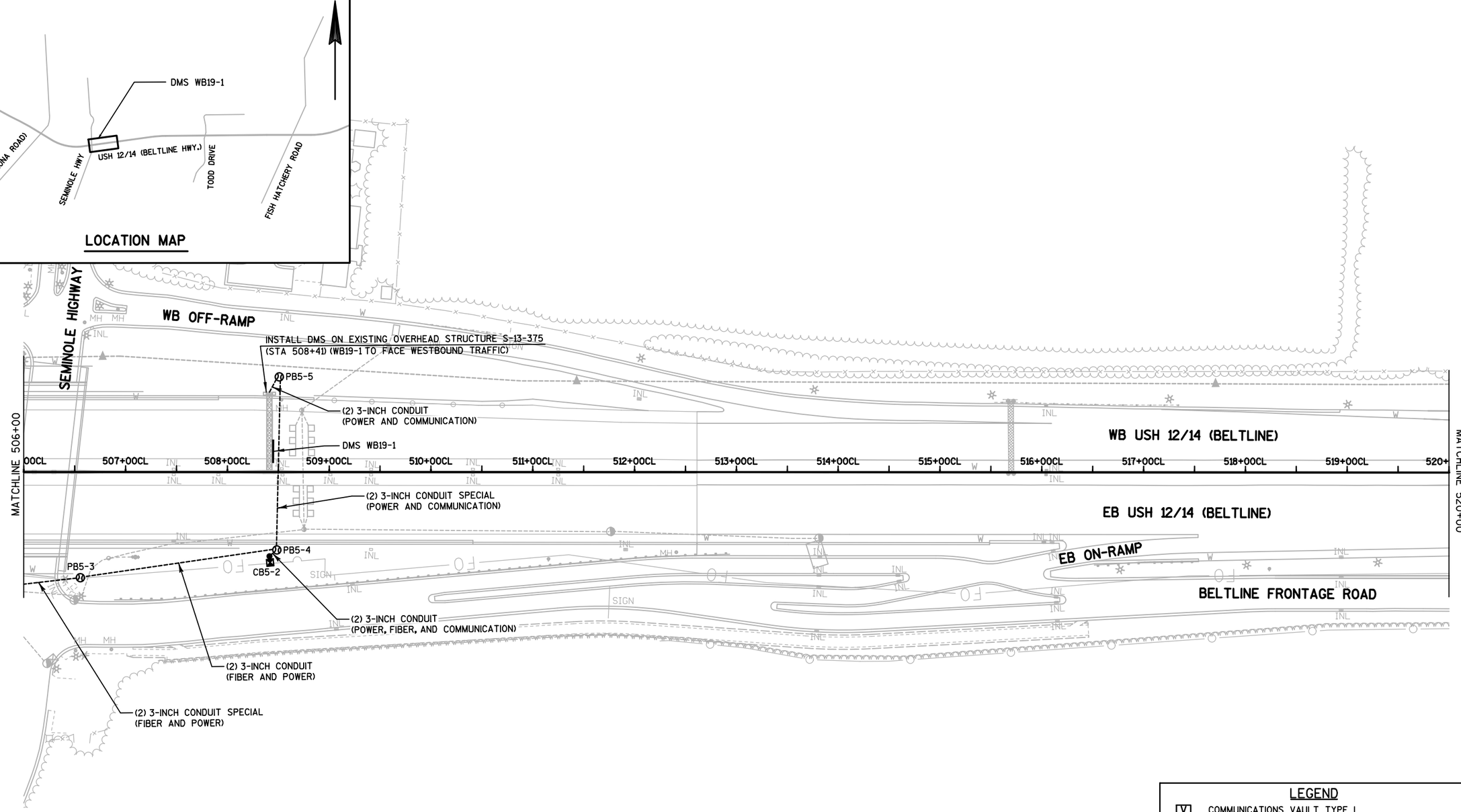
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E

2



LOCATION MAP

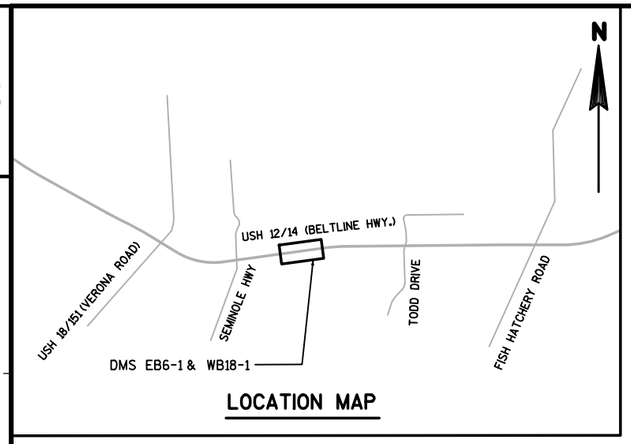


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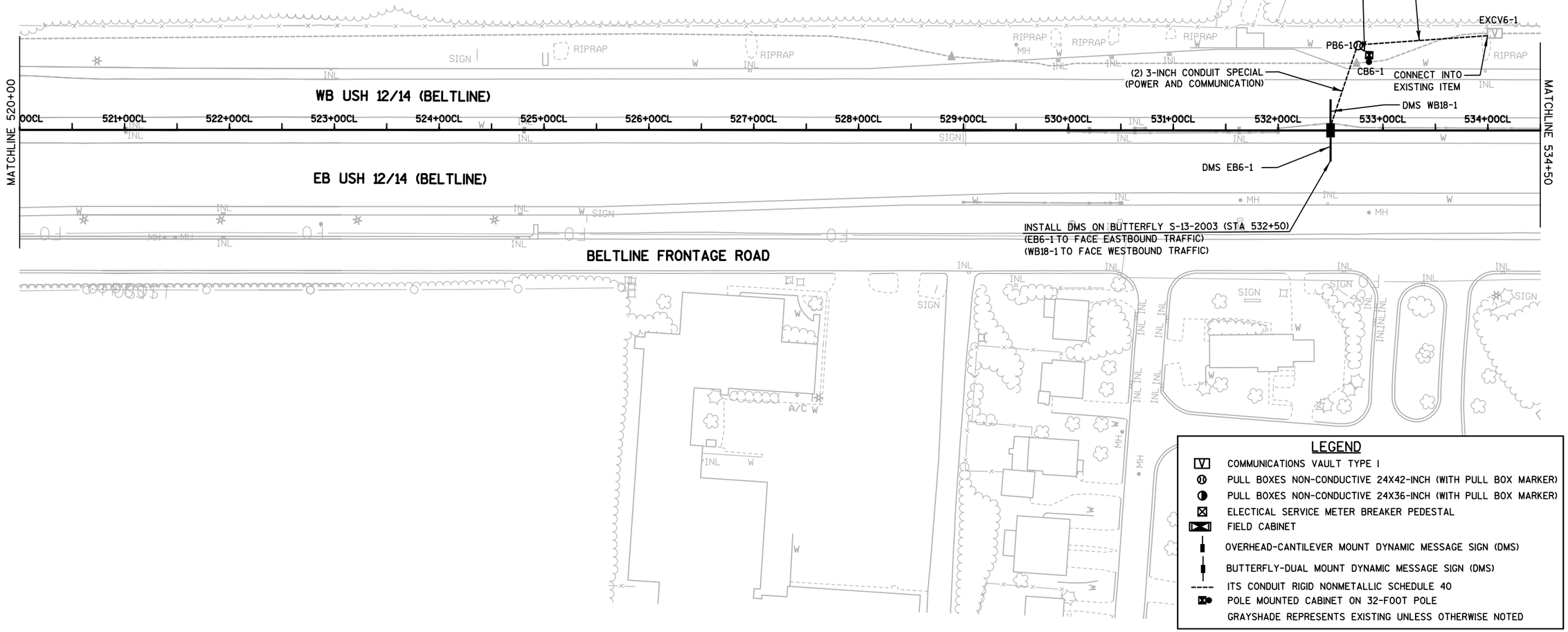
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E

2



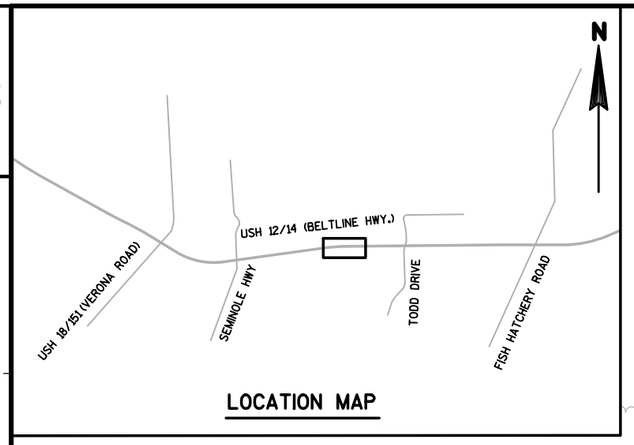
LOCATION MAP



LEGEND

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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E

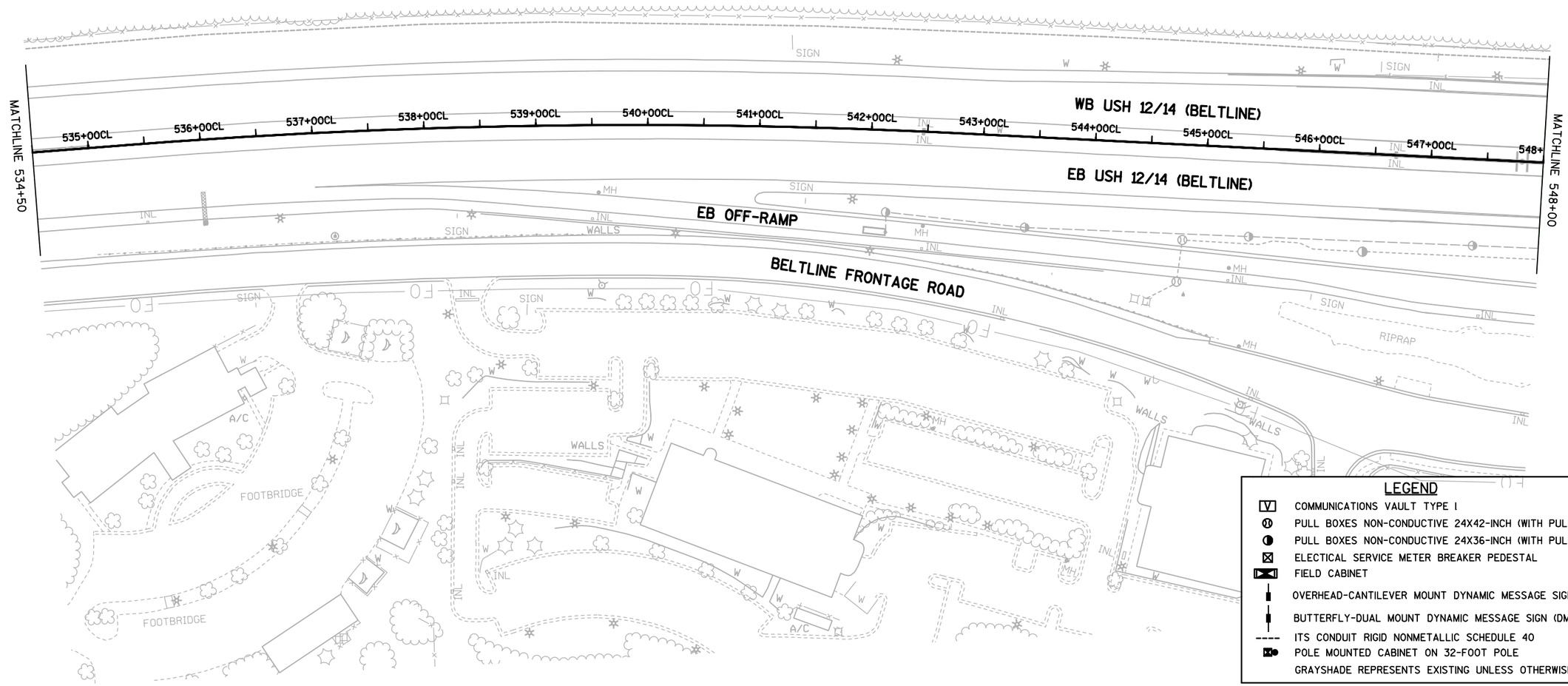


LOCATION MAP

FOR INFORMATION PURPOSES ONLY. CONSIDER REMOVING SHEET DURING FINAL DESIGN

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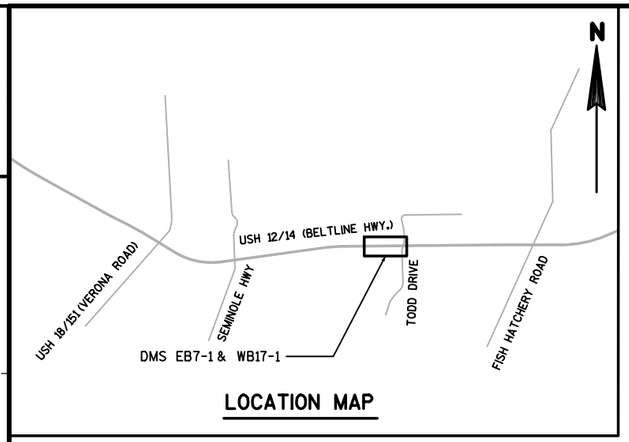


LEGEND

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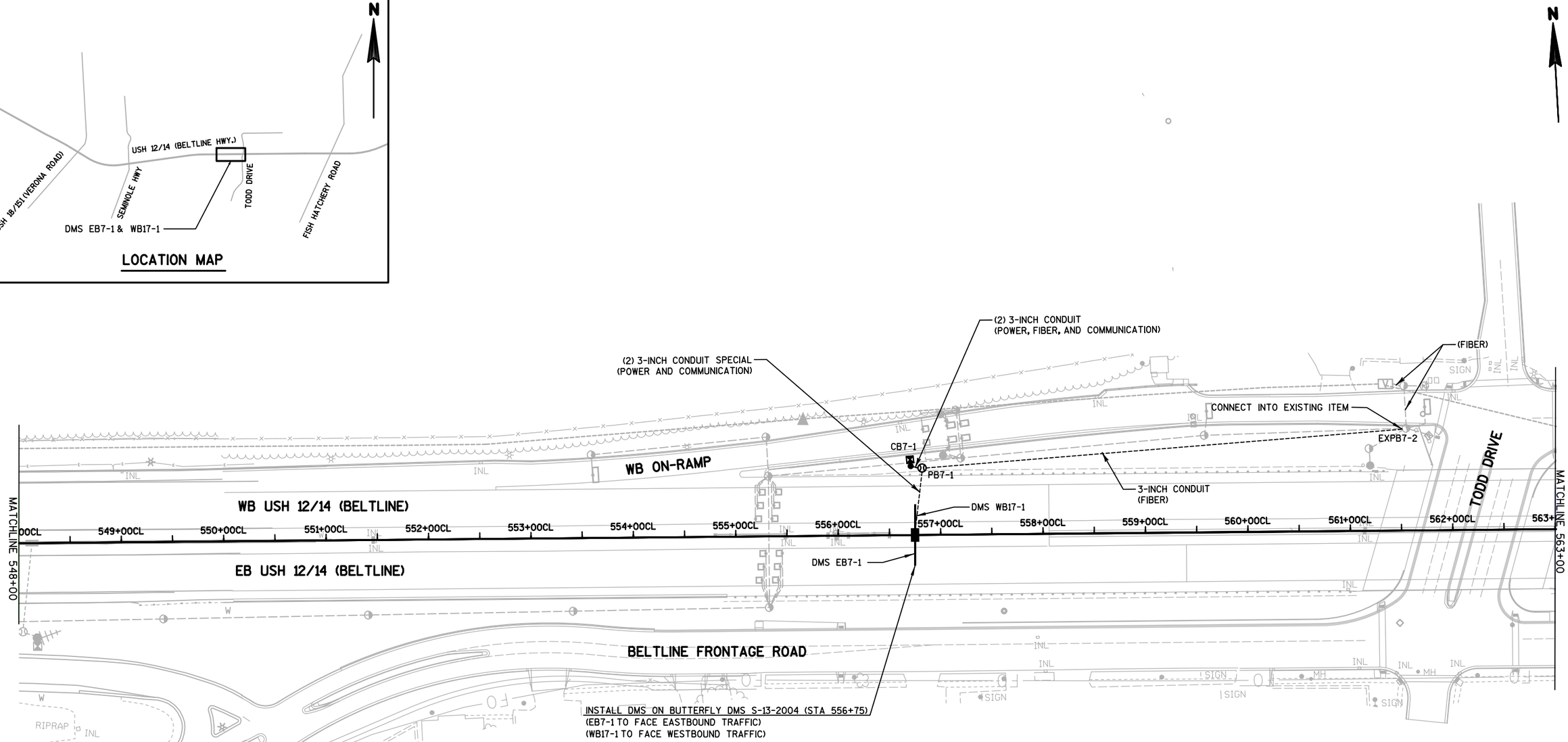
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E

2



LOCATION MAP

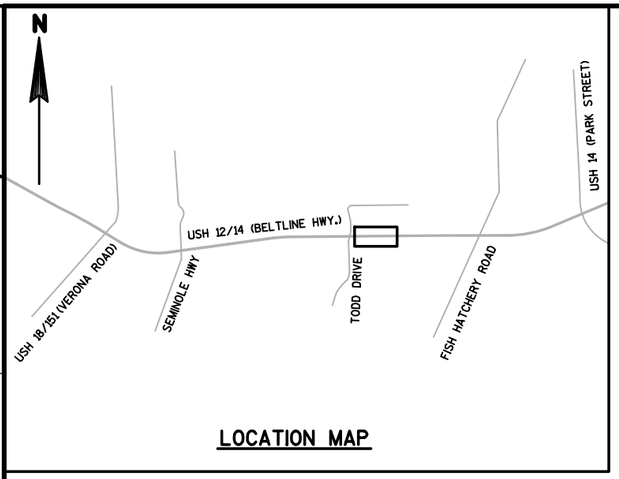
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LEGEND

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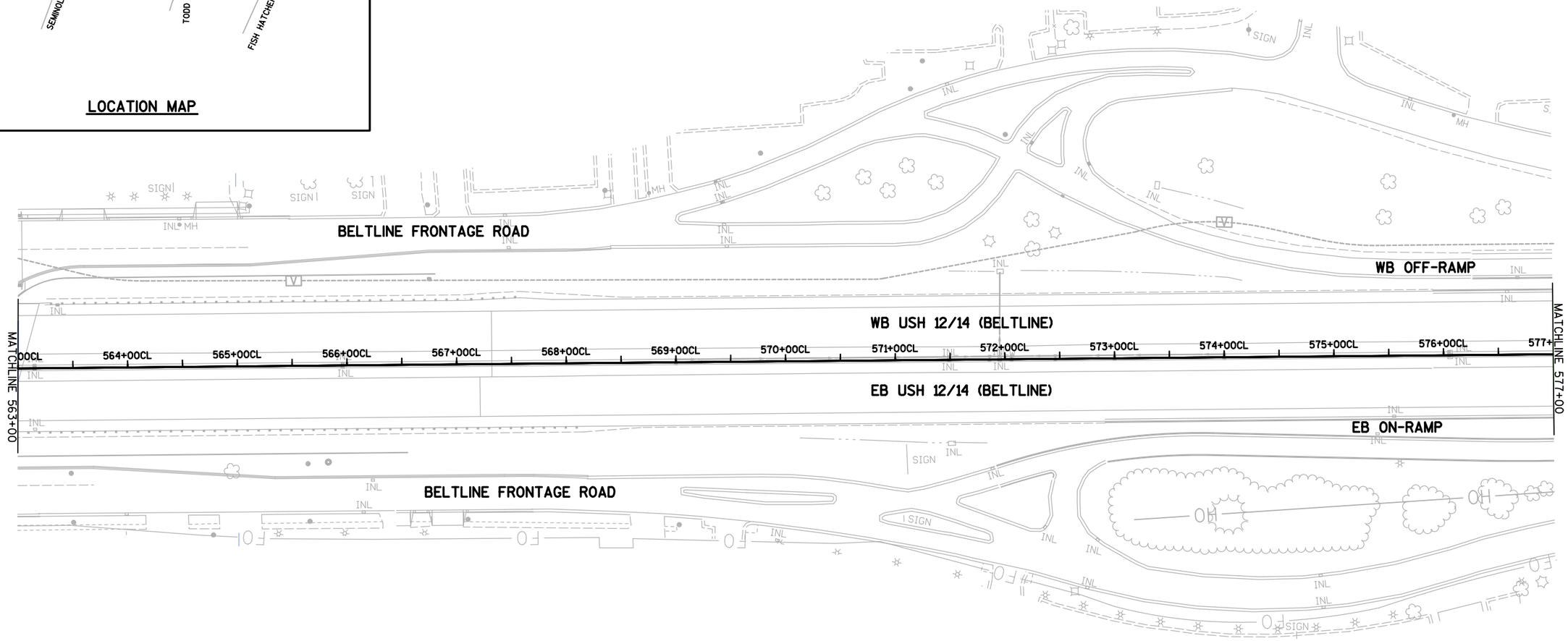
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E



LOCATION MAP

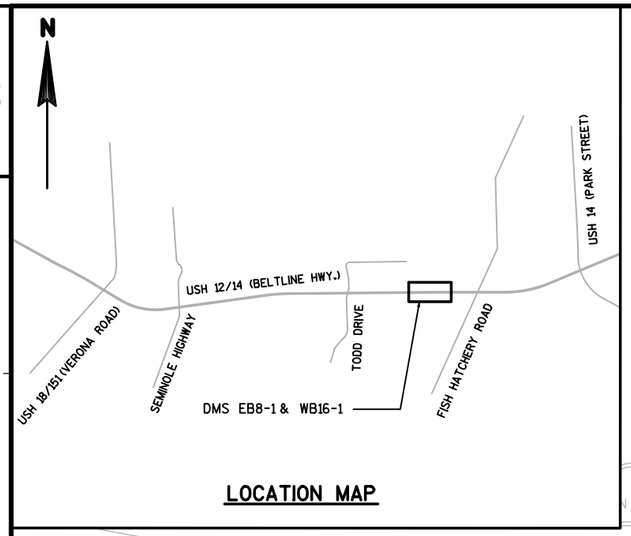
FOR INFORMATION PURPOSES ONLY. CONSIDER REMOVING SHEET DURING FINAL DESIGN

2



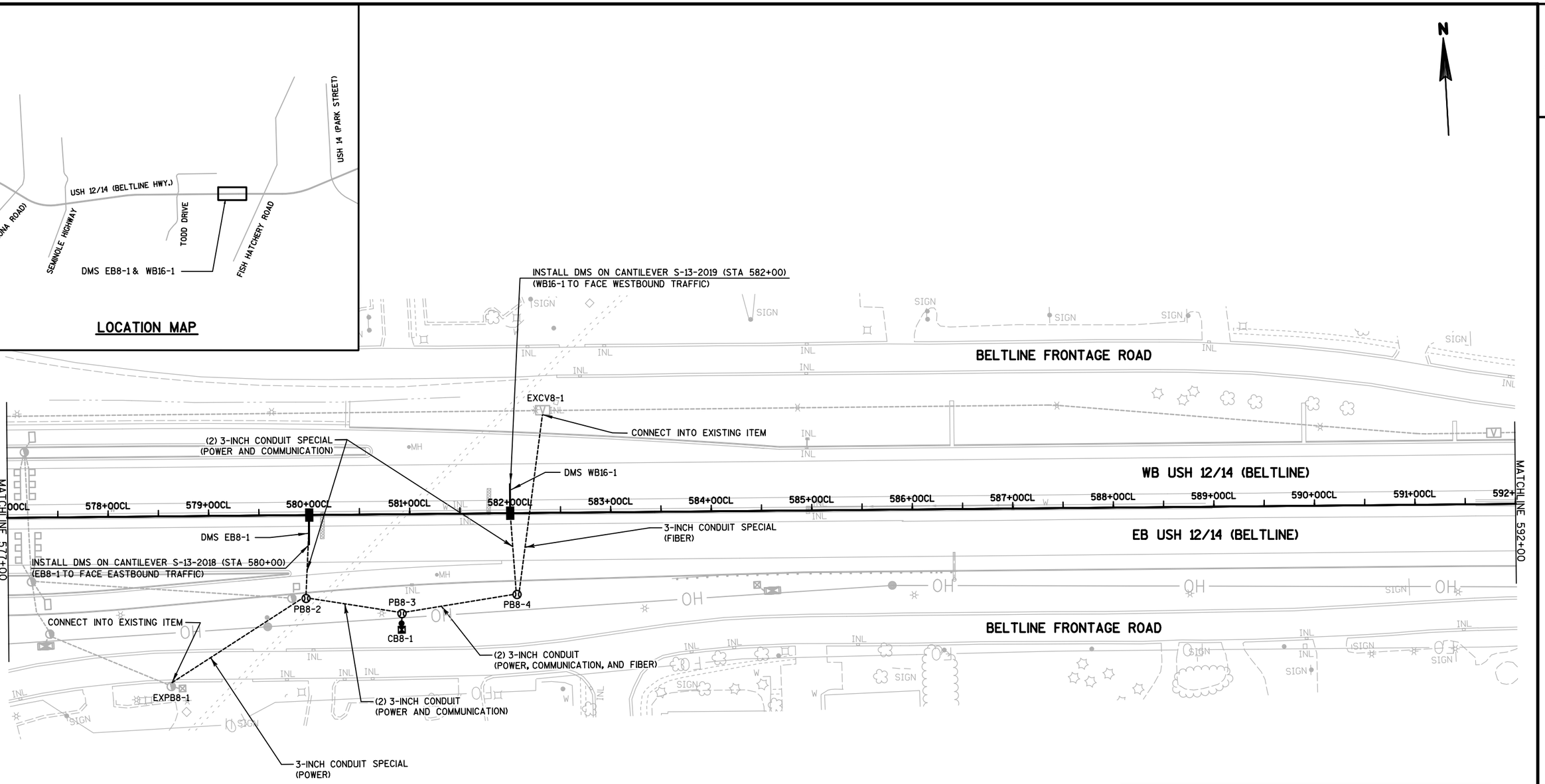
LEGEND

- COMMUNICATIONS VAULT TYPE I
- PULL BOXES NON-CONDUCTIVE 24X42-INCH (WITH PULL BOX MARKER)
- PULL BOXES NON-CONDUCTIVE 24X36-INCH (WITH PULL BOX MARKER)
- ELECTICAL SERVICE METER BREAKER PEDESTAL
- FIELD CABINET
- OVERHEAD-CANTILEVER MOUNT DYNAMIC MESSAGE SIGN (DMS)
- BUTTERFLY-DUAL MOUNT DYNAMIC MESSAGE SIGN (DMS)
- ITS CONDUIT RIGID NONMETALLIC SCHEDULE 40
- POLE MOUNTED CABINET ON 32-FOOT POLE
- GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED



LOCATION MAP

2



LEGEND

- COMMUNICATIONS VAULT TYPE I
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- POLE MOUNTED CABINET ON 32-FOOT POLE
- GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED

2

2

N

CONNECT INTO EXISTING ITEM

PB9-3

EXPB9-2

EXCB9-1

(2) 3-INCH CONDUITS
(POWER AND COMMUNICATION)

(2) 3-INCH CONDUITS
(POWER AND FIBER)

BELTLINE FRONTAGE ROAD

WB ON-RAMP

PB9-1

(2) 3-INCH CONDUITS SPECIAL
(POWER AND COMMUNICATION)

(2) 3-INCH CONDUITS
(POWER AND COMMUNICATION)

MATCHLINE 592+00

WB USH 12/14 (BELTLINE)

00CL 593+00CL 594+00CL 595+00CL 596+00CL 597+00CL 598+00CL 599+00CL 600+00CL 601+00CL 602+00CL 603+00CL 604+00CL 605+00CL 606+

MATCHLINE 606+00

EB USH 12/14 (BELTLINE)

DMS EB9-1

INSTALL DMS ON CANTILEVER S-13-2020 (STA 602+30)
(EB9-1 TO FACE EASTBOUND TRAFFIC)

BELTLINE FRONTAGE ROAD

EB OFF-RAMP

FISH HATCHERY ROAD

N

USH 12/14 (BELTLINE HWY.)

USH 18/151
(VERONA ROAD)

SEMINOLE HWY

TODD DRIVE

FISH HATCHERY ROAD

USH 14 (PARK STREET)

DMS EB9-1

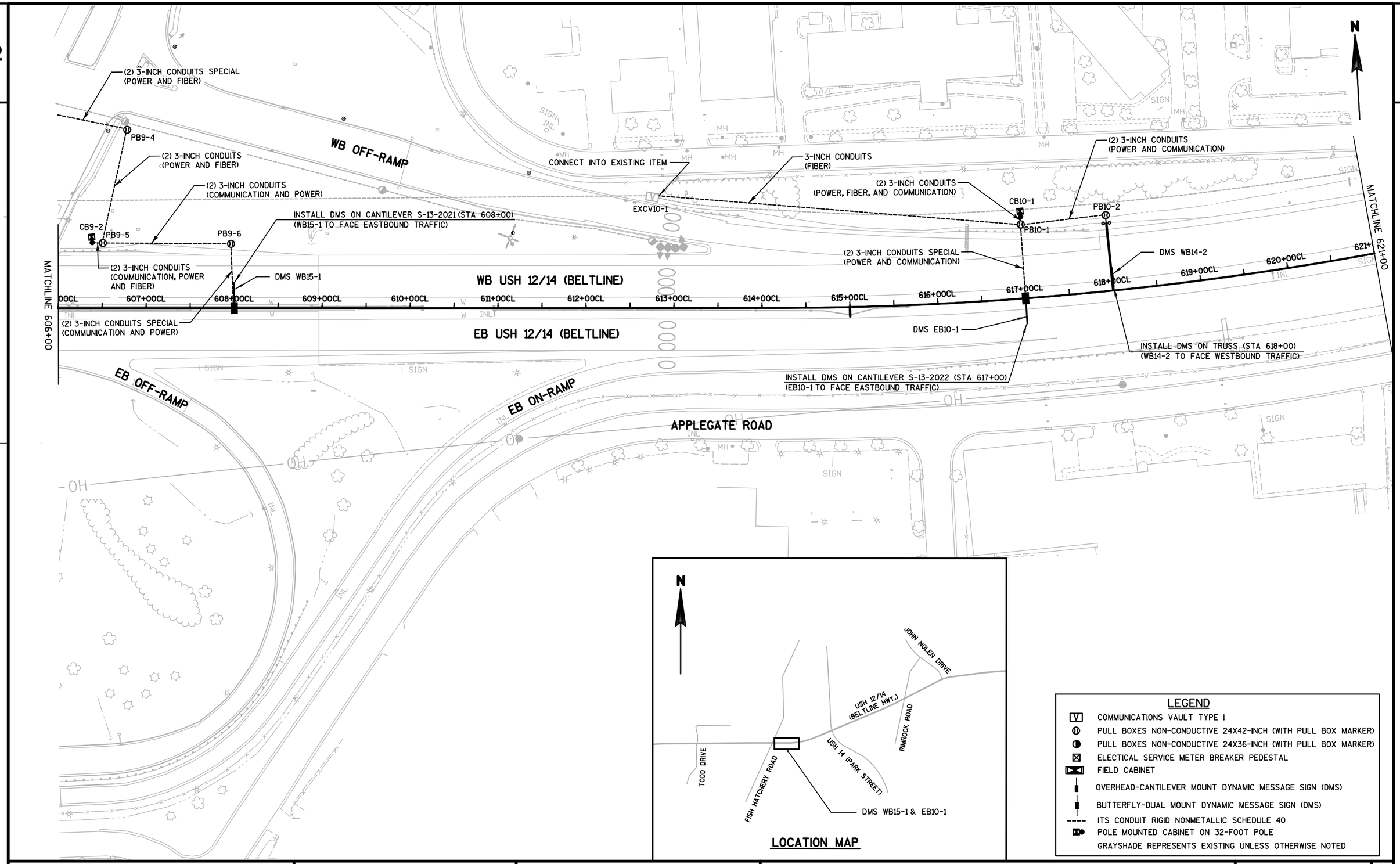
LOCATION MAP

LEGEND

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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E

2

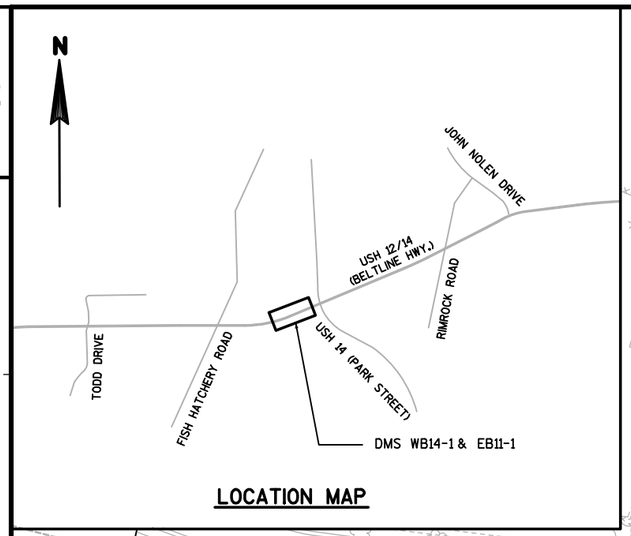


LOCATION MAP

LEGEND

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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E



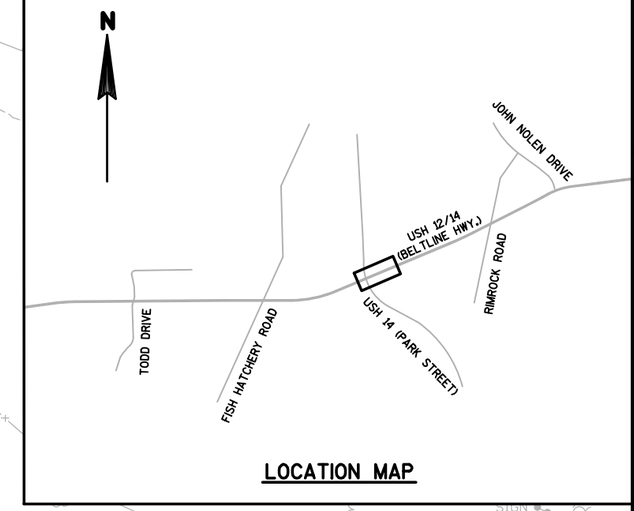
LOCATION MAP

LEGEND

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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E

2



LOCATION MAP

USH 151 (PARK STREET)

WB ON-RAMP

WB OFF-RAMP

WB ON-RAMP

EXCV12-1

CONNECT INTO EXISTING ITEM

WB USH 12/14 (BELTLINE)

MATCHLINE 636+00

636+00CL 637+00CL 638+00CL 639+00CL 640+00CL 641+00CL 642+00CL 643+00CL 644+00CL 645+00CL 646+00CL 647+00CL 648+00CL 649+00CL 650+00CL 651+00CL

MATCHLINE 651+00

EB USH 12/14 (BELTLINE)

3-INCH CONDUITS SPECIAL
(FIBER)

PB12-1

3-INCH CONDUITS
(FIBER)

EB ON-RAMP

EB ON-RAMP

BADGER ROAD

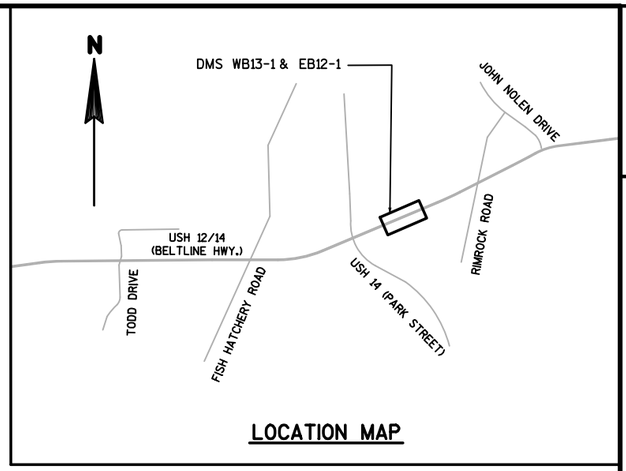
USH 14 (PARK STREET)

LEGEND

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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E

2



LOCATION MAP

N

BADGER ROAD

EB OFF-RAMP

DMS WB13-1

WB USH 12/14 (BELTLINE)

INSTALL DMS ON BUTTERFLY S-13-XXXX (STA 664+45)
(EB12-2 TO FACE EASTBOUND TRAFFIC)
(WB12-2 TO FACE WESTBOUND TRAFFIC)

DMS WB12-2

MATCHLINE 651+00

651+00CL 652+00CL 653+00CL 654+00CL 655+00CL 656+00CL 657+00CL 658+00CL 659+00CL 660+00CL 661+00CL 662+00CL 663+00CL 664+00CL 665+

MATCHLINE 665+00

INSTALL BUTTERFLY DMS ON OVERHEAD STRUCTURE S-13-2034 (STA 651+90)
(EB12-1 TO FACE EASTBOUND TRAFFIC)
(WB13-1 TO FACE WESTBOUND TRAFFIC)

EB USH 12/14 (BELTLINE)

DMS EB12-2

DMS EB12-1

(2) 3-INCH CONDUITS SPECIAL
(COMMUNICATION AND POWER)

PB12-2

CB12-1

CB12-2

PB12-3

(2) 3-INCH CONDUITS SPECIAL
(COMMUNICATION AND POWER)

INSTALL ON EXISTING POLE

BADGER ROAD

(2) 3-INCH CONDUITS
(COMMUNICATION, FIBER
AND POWER)

(2) 3-INCH CONDUITS
(FIBER)

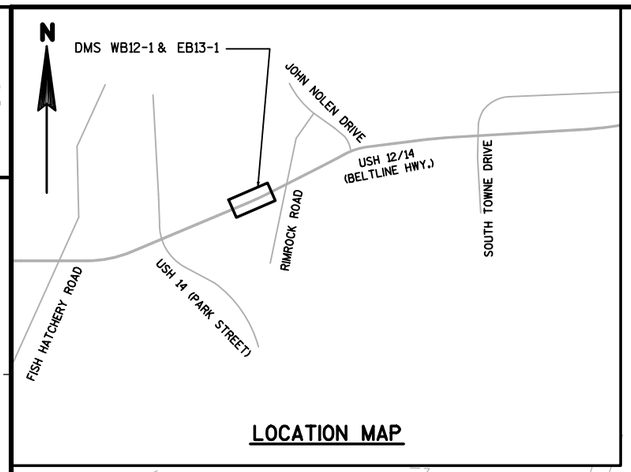
(2) 3-INCH CONDUITS
(COMMUNICATION, FIBER
AND POWER)

3-INCH CONDUITS
(FIBER)

LEGEND

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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E



LOCATION MAP

N

RUSK AVENUE

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

MATCHLINE 665+00

666+00CL 667+00CL 668+00CL 669+00CL 670+00CL 671+00CL 672+00CL 673+00CL 674+00CL 675+00CL 676+00CL 677+00CL 678+00CL 679+00CL 680+00CL

MATCHLINE 680+00

PB13-1

PB13-2

PB13-3

CB13-1

EXCV13-1

(2) 3-INCH CONDUITS
(COMMUNICATION, FIBER AND POWER)

3-INCH CONDUITS
(FIBER)

WB ON-RAMP

CONNECT INTO
EXISTING ITEM

(2) 3-INCH CONDUITS
(COMMUNICATION AND POWER)

(2) 3-INCH CONDUITS SPECIAL
(COMMUNICATION AND POWER)

SUPPLEMENTAL DMS

DMS WB12-1

DMS EB13-1

INSTALL DMS ON OVERHEAD S-13-2023 (STA 673+00)
(SUPPLEMENTAL WESTBOUND DMS)
(WB12-1 TO FACE WESTBOUND TRAFFIC)

(2) 3-INCH CONDUITS SPECIAL
(FIBER)

PB12-4

EB OFF-RAMP

INSTALL DMS ON CANTILEVER DMS S-13-2014 (STA 678+00)
(EB13-1 TO FACE EASTBOUND TRAFFIC)

3-INCH CONDUITS
(FIBER)

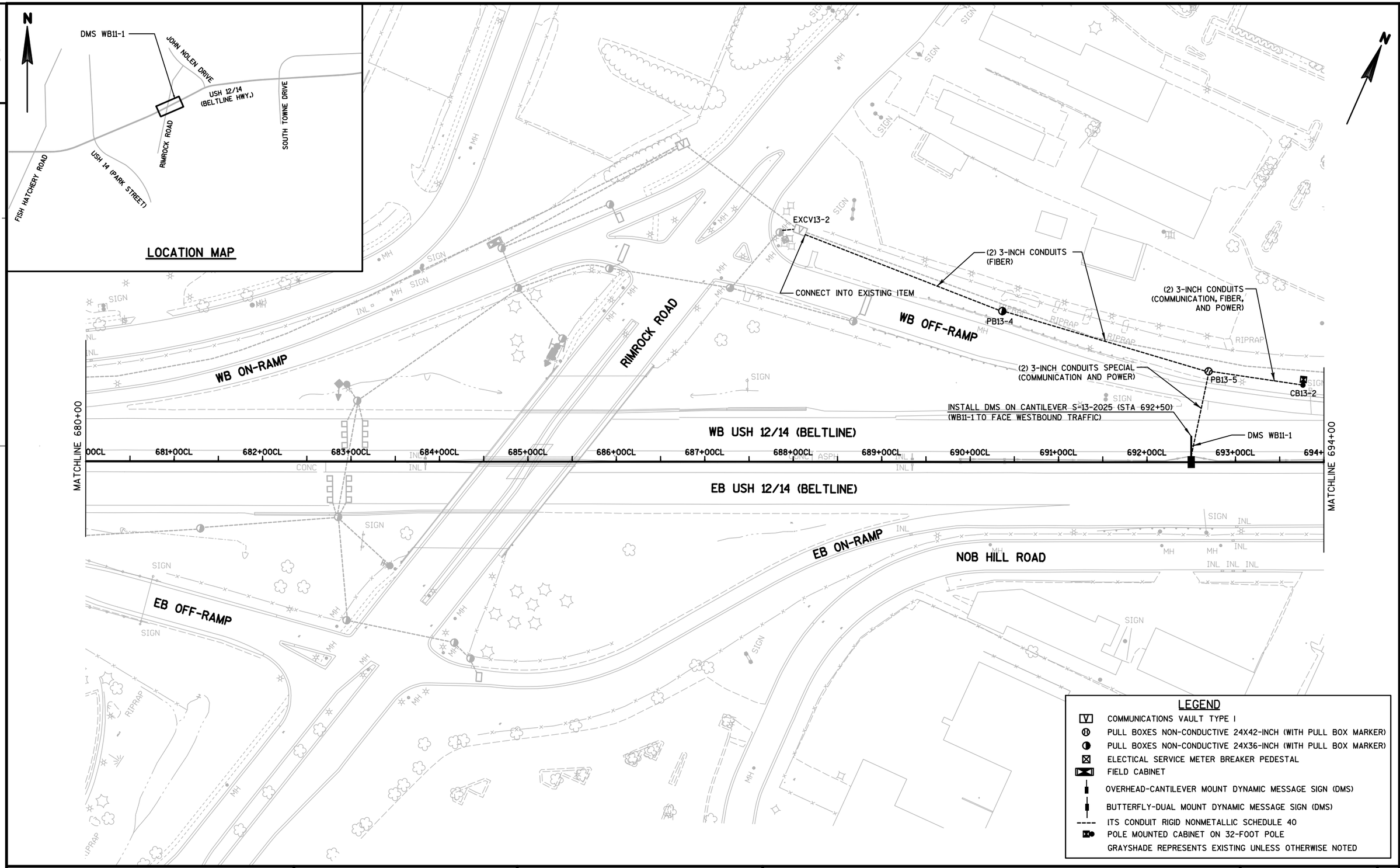
3-INCH CONDUITS SPECIAL
(FIBER)

BADGER ROAD

LEGEND

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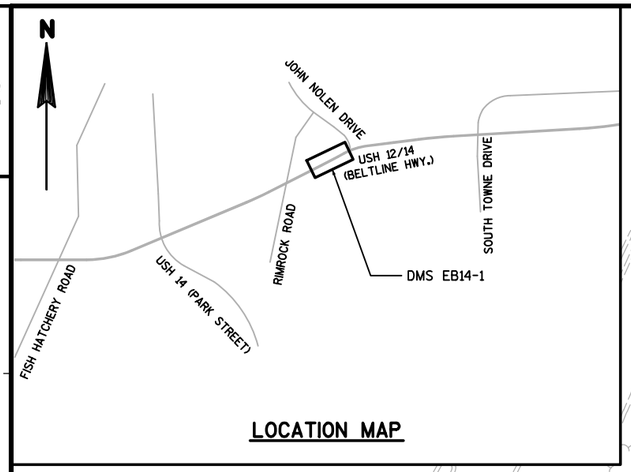
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E



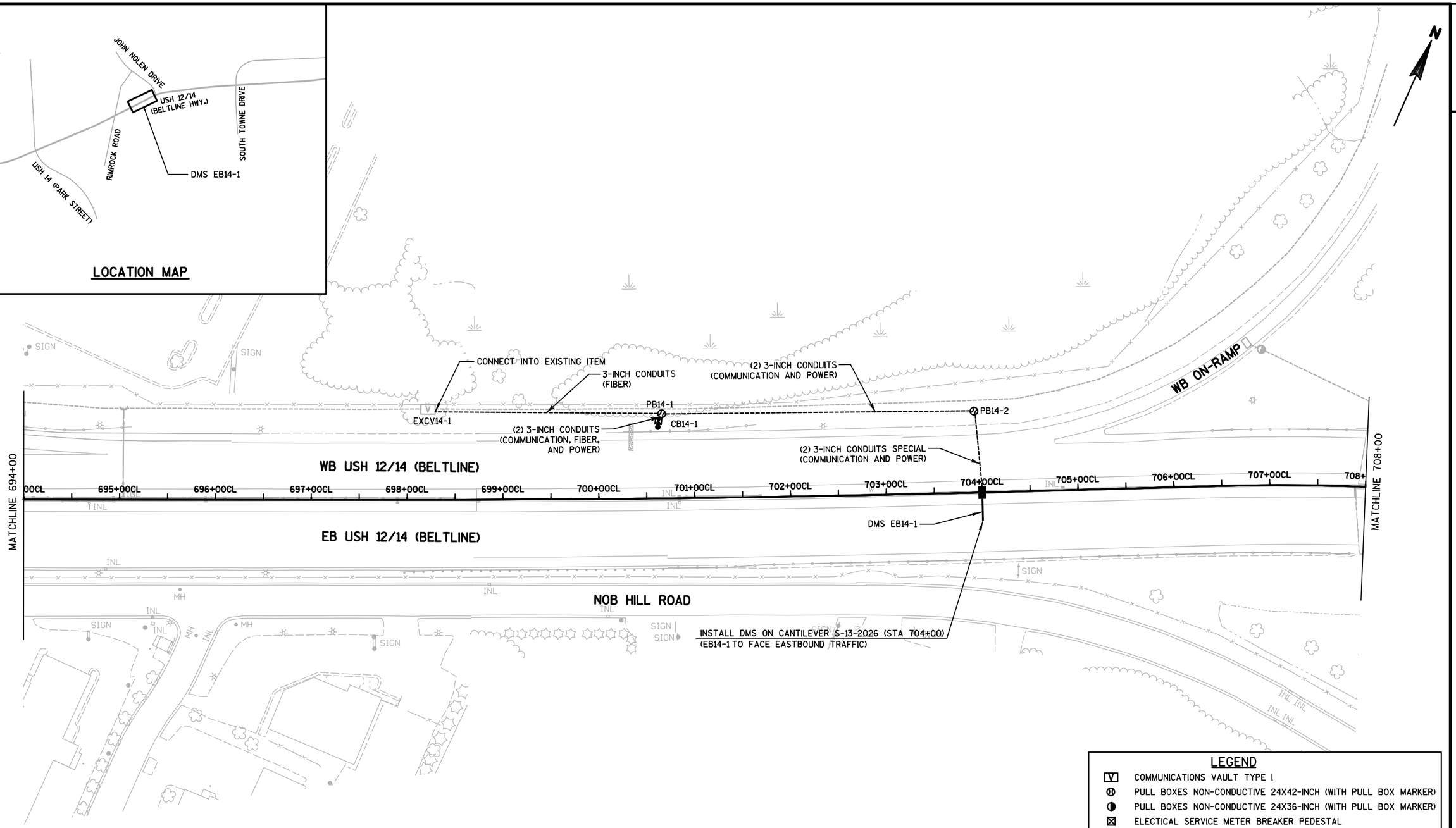
LEGEND

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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E



LOCATION MAP



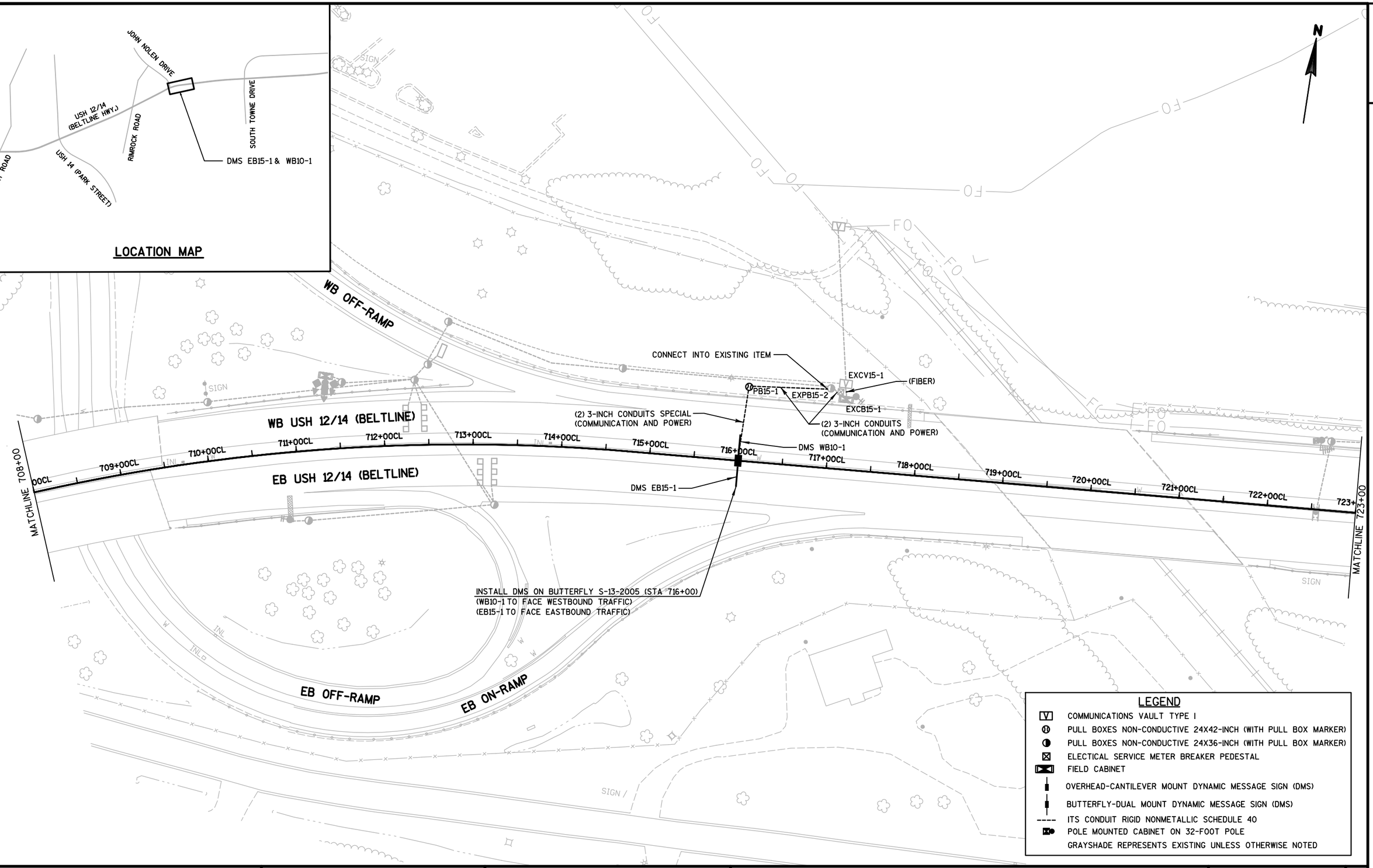
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E

2

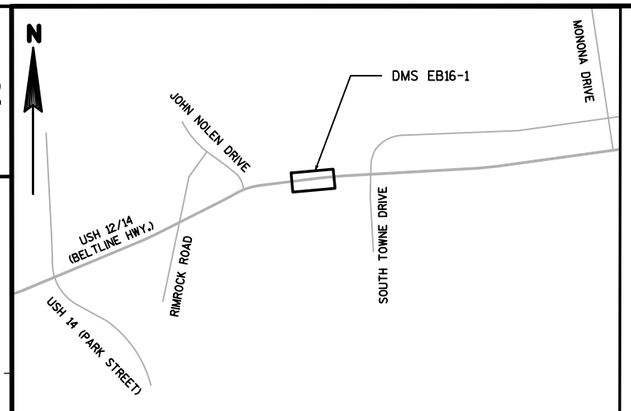
LOCATION MAP



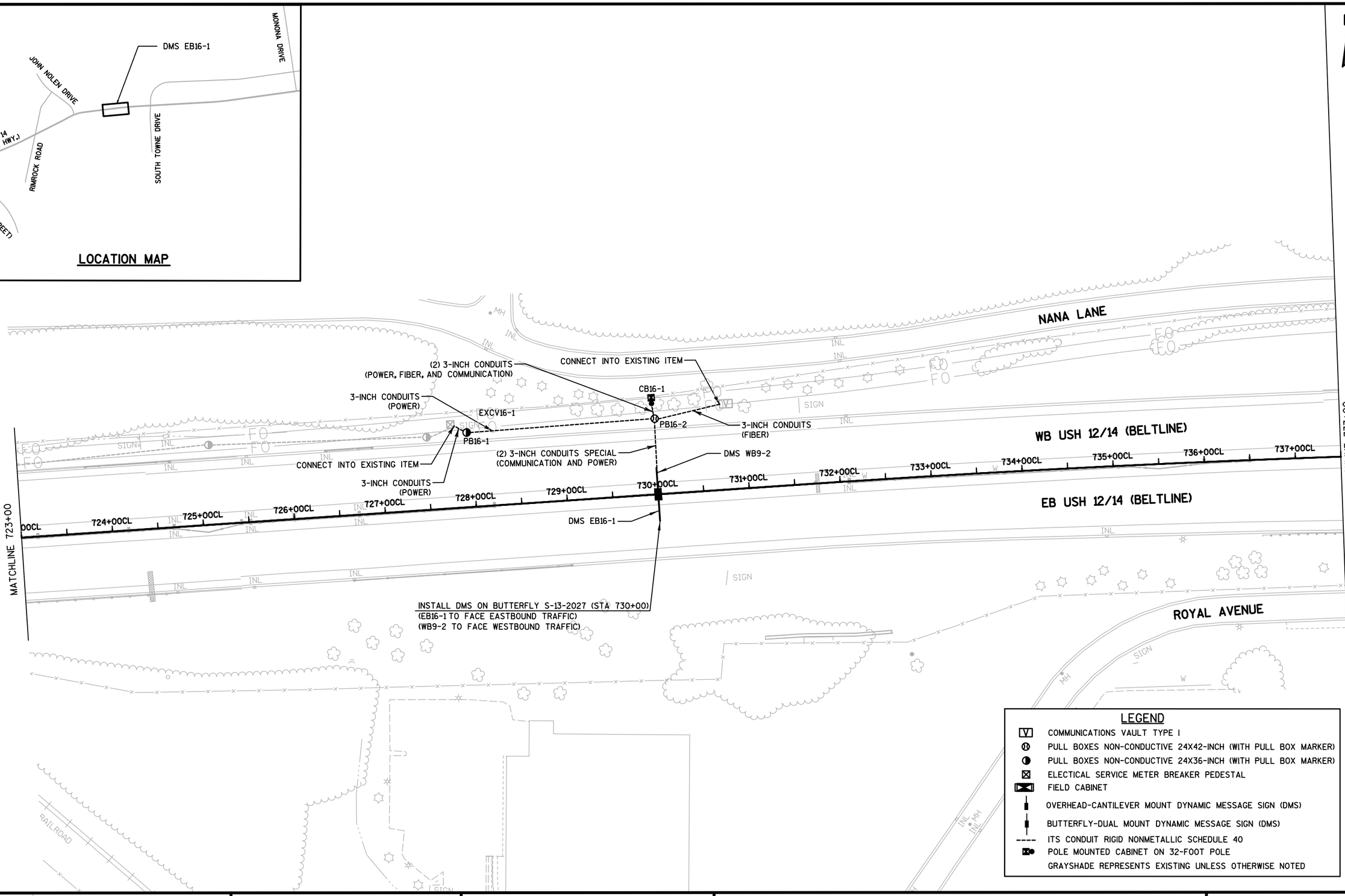
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E



LOCATION MAP

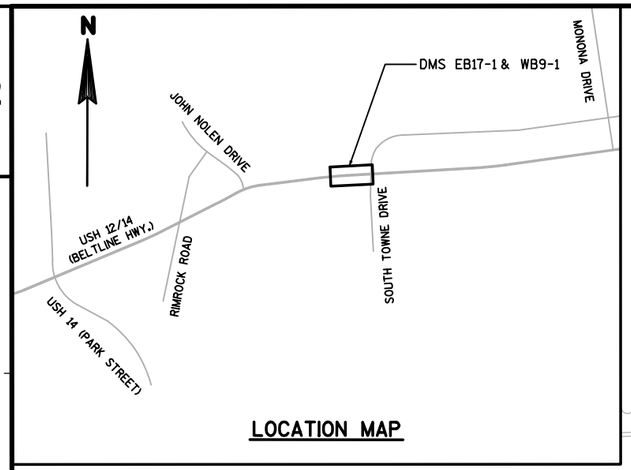


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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E



LOCATION MAP

2

N

INSTALL DMS ON BUTTERFLY S-13-2006 (STA 744+00)
(WB9-1 TO FACE WESTBOUND TRAFFIC)
(EB17-1 TO FACE EASTBOUND TRAFFIC)

WB ON-RAMP

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

MATCHLINE 737+00

738+00CL 739+00CL 740+00CL 741+00CL 742+00CL 743+00CL 744+00CL 745+00CL 746+00CL 747+00CL 748+00CL 749+00CL 750+00CL 751+00CL 752+

MATCHLINE 752+00

DMS WB9-1

DMS EB17-1

(2) 3-INCH CONDUITS SPECIAL
(COMMUNICATION AND POWER)

(2) 3-INCH CONDUITS SPECIAL
(COMMUNICATION, FIBER, AND POWER)

PB17-3

3-INCH CONDUITS
(FIBER)

PB17-4

PB17-1

CB17-1

PB17-2

EB OFF-RAMP

EXCB17-1

(FIBER)

EXPB17-5

SOUTH TOWN DRIVE

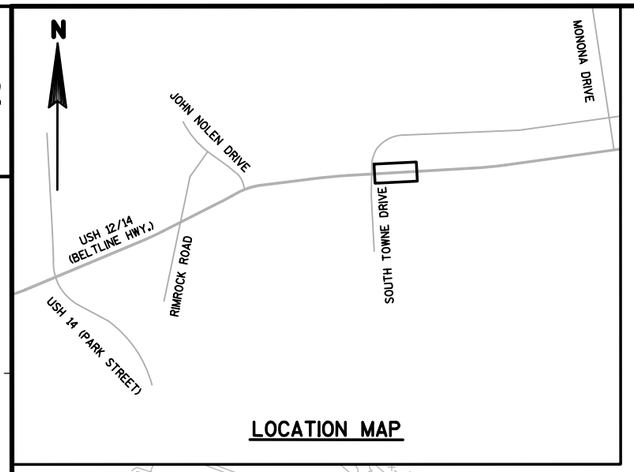
(2) 3-INCH CONDUITS
(COMMUNICATION, FIBER, AND POWER)

SIGN INL FO MH W

LEGEND

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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E

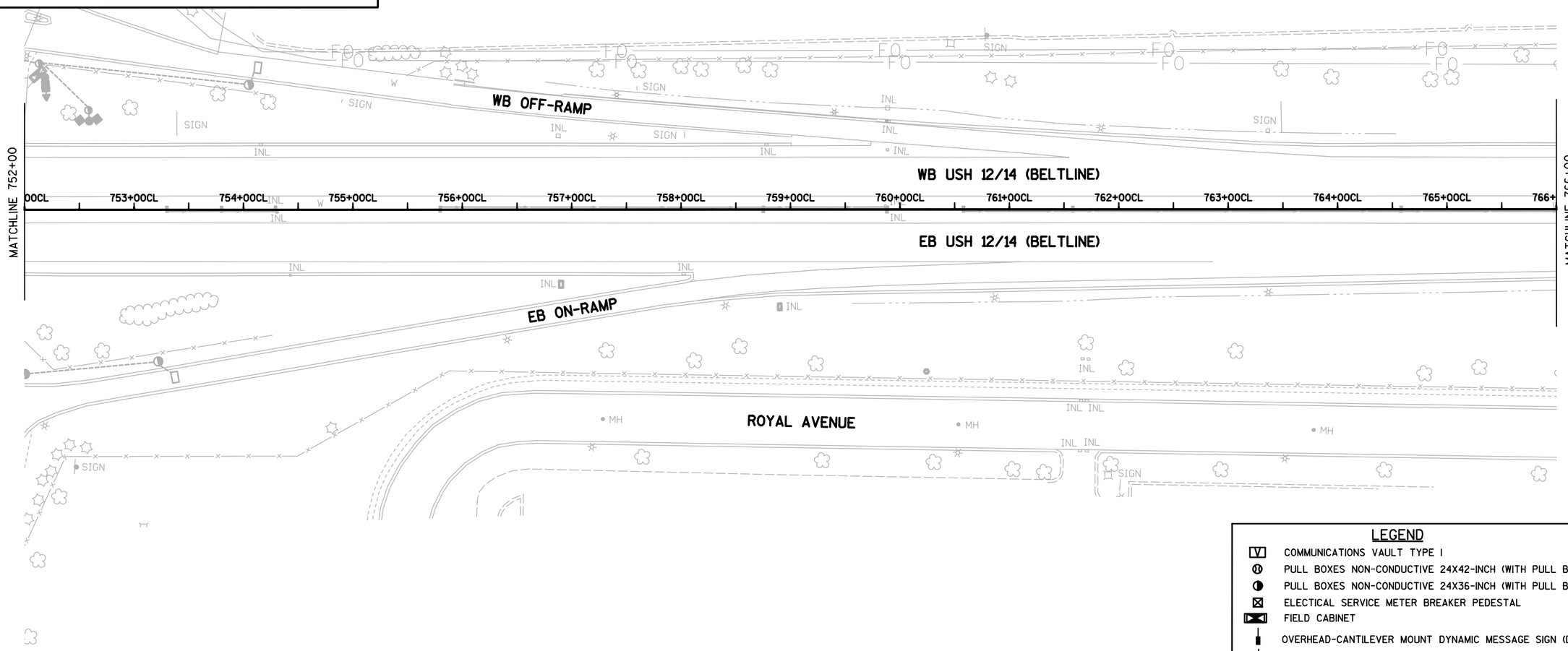


LOCATION MAP

FOR INFORMATION PURPOSES ONLY. CONSIDER REMOVING SHEET DURING FINAL DESIGN

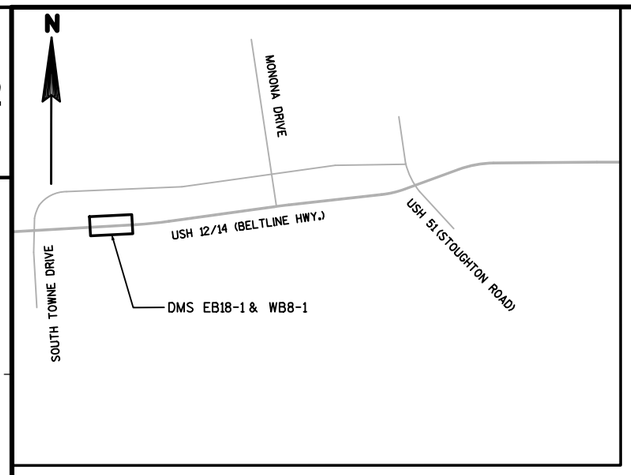
N

2



LEGEND

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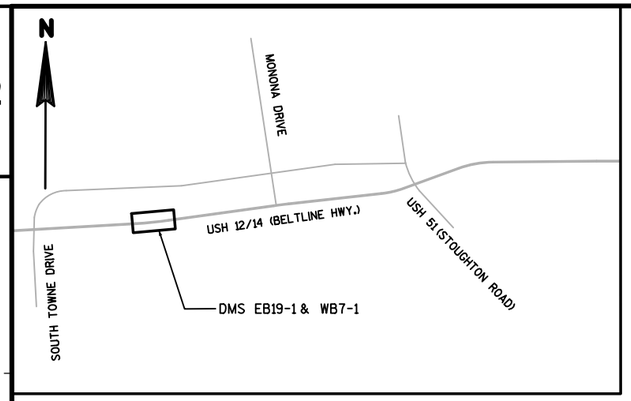
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EXCV18-1
CONNECT INTO EXISTING ITEM
CB18-1
(2) 3-INCH CONDUITS (COMMUNICATION, FIBER, AND POWER)
PB18-1
3-INCH CONDUITS (FIBER)
(2) 3-INCH CONDUITS SPECIAL (COMMUNICATION AND POWER)
DMS WB8-1
WB USH 12/14 (BELTLINE)
(2) 3-INCH CONDUITS (COMMUNICATION, FIBER, AND POWER)
3-INCH CONDUITS (FIBER)
CB18-2
PB18-2
(2) 3-INCH CONDUITS SPECIAL (COMMUNICATION AND POWER)
MATCHLINE 766+00
767+00CL
768+00CL
769+00CL
770+00CL
771+00CL
772+00CL
773+00CL
774+00CL
775+00CL
776+00CL
777+00CL
778+00CL
779+00CL
780+00CL
MATCHLINE 781+00
DMS EB18-1
EB USH 12/14 (BELTLINE)
SUPPLEMENTAL DMS
PB18-4
PB18-3
INSTALL DMS ON BUTTERFLY S-13-XXXX (STA 770+50)
(WB8-1 TO FACE WESTBOUND TRAFFIC)
(EB18-1 TO FACE EASTBOUND TRAFFIC)
INSTALL DMS ON OVERHEAD S-13-XXXX (STA 779+00)
(SUPPLEMENTAL EASTBOUND DMS)

LEGEND

- COMMUNICATIONS VAULT TYPE I
- PULL BOXES NON-CONDUCTIVE 24X42-INCH (WITH PULL BOX MARKER)
- PULL BOXES NON-CONDUCTIVE 24X36-INCH (WITH PULL BOX MARKER)
- ELECTICAL SERVICE METER BREAKER PEDESTAL
- FIELD CABINET
- OVERHEAD-CANTILEVER MOUNT DYNAMIC MESSAGE SIGN (DMS)
- BUTTERFLY-DUAL MOUNT DYNAMIC MESSAGE SIGN (DMS)
- ITS CONDUIT RIGID NONMETALLIC SCHEDULE 40
- POLE MOUNTED CABINET ON 32-FOOT POLE
- GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E



2

N

CONNECT INTO EXISTING ITEM

3-INCH CONDUITS (FIBER)

EXCV18-2

(2) 3-INCH CONDUITS (COMMUNICATION, FIBER, AND POWER)

(2) 3-INCH CONDUITS (COMMUNICATION AND POWER)

CB19-1

PB19-1

PB19-2

EXCV19-1

(2) 3-INCH CONDUITS SPECIAL (COMMUNICATION AND POWER)

DMS WB7-1

CONNECT INTO EXISTING ITEM

DMS EB19-1

3-INCH CONDUITS (FIBER)

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

MATCHLINE 781+00

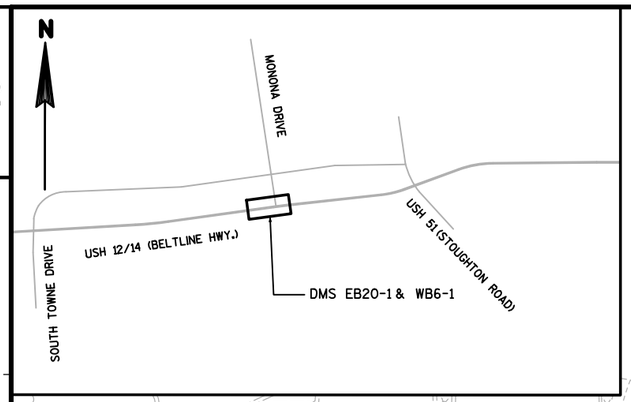
00CL 782+00CL 783+00CL 784+00CL 785+00CL 786+00CL 787+00CL 788+00CL 789+00CL 790+00CL 791+00CL 792+00CL 793+00CL 794+00CL 795+00CL 796+00CL

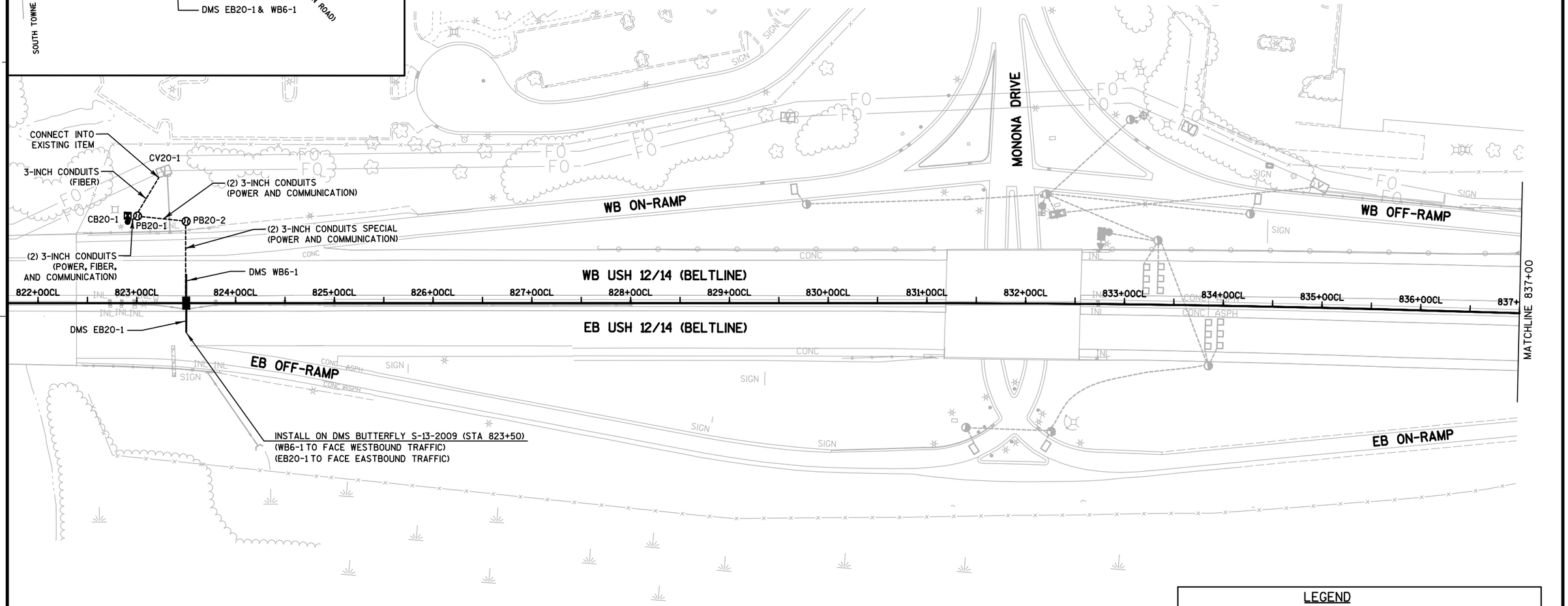
INSTALL DMS ON OVERHEAD S-13-2008 (STA 794+50)
(WB7-1 TO FACE WESTBOUND TRAFFIC)
(EB19-1 TO FACE EASTBOUND TRAFFIC)

LEGEND

- COMMUNICATIONS VAULT TYPE I
- PULL BOXES NON-CONDUCTIVE 24X42-INCH (WITH PULL BOX MARKER)
- PULL BOXES NON-CONDUCTIVE 24X36-INCH (WITH PULL BOX MARKER)
- ELECTICAL SERVICE METER BREAKER PEDESTAL
- FIELD CABINET
- OVERHEAD-CANTILEVER MOUNT DYNAMIC MESSAGE SIGN (DMS)
- BUTTERFLY-DUAL MOUNT DYNAMIC MESSAGE SIGN (DMS)
- ITS CONDUIT RIGID NONMETALLIC SCHEDULE 40
- POLE MOUNTED CABINET ON 32-FOOT POLE
- GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E

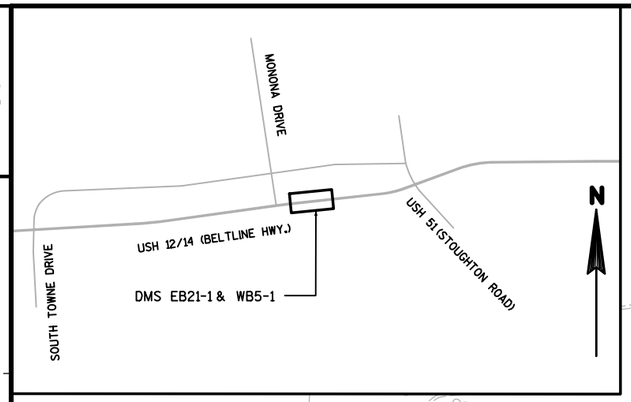




LEGEND

- COMMUNICATIONS VAULT TYPE I
- PULL BOXES NON-CONDUCTIVE 24X42-INCH (WITH PULL BOX MARKER)
- PULL BOXES NON-CONDUCTIVE 24X36-INCH (WITH PULL BOX MARKER)
- ELECTICAL SERVICE METER BREAKER PEDESTAL
- FIELD CABINET
- OVERHEAD-CANTILEVER MOUNT DYNAMIC MESSAGE SIGN (DMS)
- BUTTERFLY-DUAL MOUNT DYNAMIC MESSAGE SIGN (DMS)
- ITS CONDUIT RIGID NONMETALLIC SCHEDULE 40
- POLE MOUNTED CABINET ON 32-FOOT POLE
- GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E



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INSTALL VAULT OVER EXISTING CONDUIT

CB21-1

CV21-1

PB21-1

(2) 3-INCH CONDUITS (POWER, FIBER, AND COMMUNICATION)

(2) 3-INCH CONDUITS (FIBER)

(2) 3-INCH CONDUITS SPECIAL (POWER AND COMMUNICATION)

DMS WB5-1

DMS EB21-1

WB OFF-RAMP

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

EB ON-RAMP

MATCHLINE 837+00

838+00CL 839+00CL 840+00CL 841+00CL 842+00CL 843+00CL 844+00CL 845+00CL 846+00CL 847+00CL 848+00CL 849+00CL 850+00CL

MATCHLINE 851+00

SIGN

CONC ASPH

MH INL

INL

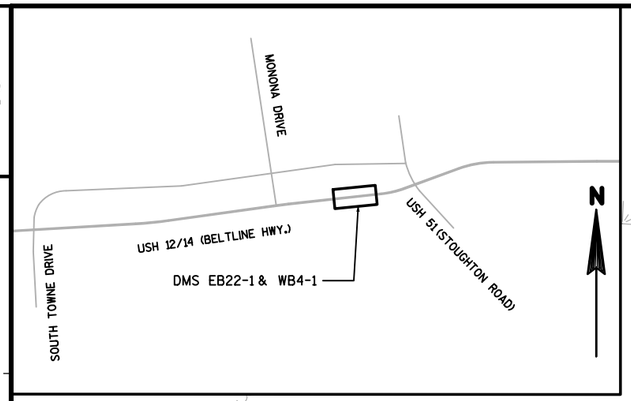
INSTALL DMS ON OVERHEAD STRUCTURE S-13-2035 (STA 845+10)
(WB5-1 TO FACE WESTBOUND TRAFFIC)
(EB21-1 TO FACE EASTBOUND TRAFFIC)

LEGEND

- COMMUNICATIONS VAULT TYPE I
- PULL BOXES NON-CONDUCTIVE 24X42-INCH (WITH PULL BOX MARKER)
- PULL BOXES NON-CONDUCTIVE 24X36-INCH (WITH PULL BOX MARKER)
- ELECTICAL SERVICE METER BREAKER PEDESTAL
- FIELD CABINET
- OVERHEAD-CANTILEVER MOUNT DYNAMIC MESSAGE SIGN (DMS)
- BUTTERFLY-DUAL MOUNT DYNAMIC MESSAGE SIGN (DMS)
- ITS CONDUIT RIGID NONMETALLIC SCHEDULE 40
- POLE MOUNTED CABINET ON 32-FOOT POLE
- GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E

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N

CONNECT INTO EXISTING ITEM

EXCV22-1

CB22-1

(2) 3-INCH CONDUITS (FIBER)

PB22-1

(2) 3-INCH CONDUITS (POWER, COMMUNICATION, AND FIBER)

(2) 3-INCH CONDUITS (POWER AND COMMUNICATION)

SUPPLEMENTAL DMS

WB USH 12/14 (BELTLINE)

INSTALL VAULT OVER EXISTING CONDUIT

CV22-2

(2) 3-INCH CONDUITS (FIBER)

CB22-2

PB22-2

PB22-3

(2) 3-INCH CONDUITS (POWER, FIBER, AND COMMUNICATION)

(2) 3-INCH CONDUITS SPECIAL (POWER AND COMMUNICATION)

DMS WB4-1

DMS EB22-1

MATCHLINE 851+00

851+00CL 852+00CL 853+00CL 854+00CL 855+00CL 856+00CL 857+00CL 858+00CL 859+00CL 860+00CL 861+00CL 862+00CL 863+00CL 864+00CL 865+00CL

MATCHLINE 865+50

INSTALL DMS ON OVERHEAD S-13-XXXX (STA 854+00)
(SUPPLEMENTAL WESTBOUND DMS)

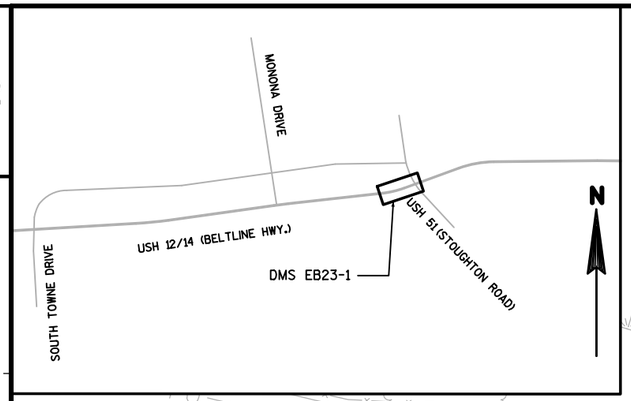
EB USH 12/14 (BELTLINE)

INSTALL DMS ON BUTTERFLY S-13-2010 (STA 864+50)
(WB4-1 TO FACE WESTBOUND TRAFFIC)
(EB22-1 TO FACE EASTBOUND TRAFFIC)

LEGEND

- COMMUNICATIONS VAULT TYPE I
- PULL BOXES NON-CONDUCTIVE 24X42-INCH (WITH PULL BOX MARKER)
- PULL BOXES NON-CONDUCTIVE 24X36-INCH (WITH PULL BOX MARKER)
- ELECTICAL SERVICE METER BREAKER PEDESTAL
- FIELD CABINET
- OVERHEAD-CANTILEVER MOUNT DYNAMIC MESSAGE SIGN (DMS)
- BUTTERFLY-DUAL MOUNT DYNAMIC MESSAGE SIGN (DMS)
- ITS CONDUIT RIGID NONMETALLIC SCHEDULE 40
- POLE MOUNTED CABINET ON 32-FOOT POLE
- GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E



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N

USH 51 (STOUGHTON ROAD)

WB ON-RAMP

MATCHLINE 865+50

866+00CL
867+00CL
868+00CL
869+00CL
870+00CL
871+00CL
872+00CL
873+00CL
874+00CL
875+00CL
876+00CL
877+00CL
878+00CL
879+00CL
880+00CL

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

EB OFF-RAMP

MATCHLINE 880+50

DMS EB23-1

INSTALL CANTILEVER DMS (STA 880+20)
(EB23-1 TO FACE EASTBOUND TRAFFIC)

(2) 3-INCH CONDUITS SPECIAL
(POWER AND COMMUNICATION)

PB23-3

3-INCH CONDUITS
(POWER AND FIBER)

EXPB23-2

(FIBER)

EXCB23-1

EXPB23-1

(FIBER)

(POWER)

FO

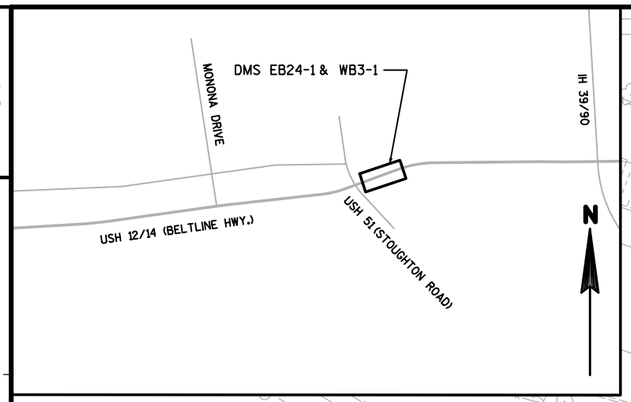
SIGN

INL

LEGEND

- COMMUNICATIONS VAULT TYPE I
- PULL BOXES NON-CONDUCTIVE 24X42-INCH (WITH PULL BOX MARKER)
- PULL BOXES NON-CONDUCTIVE 24X36-INCH (WITH PULL BOX MARKER)
- ELECTICAL SERVICE METER BREAKER PEDESTAL
- FIELD CABINET
- OVERHEAD-CANTILEVER MOUNT DYNAMIC MESSAGE SIGN (DMS)
- BUTTERFLY-DUAL MOUNT DYNAMIC MESSAGE SIGN (DMS)
- ITS CONDUIT RIGID NONMETALLIC SCHEDULE 40
- POLE MOUNTED CABINET ON 32-FOOT POLE
- GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E



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WB OFF-RAMP

INSTALL DMS ON CANTILEVER S-13-2029 (STA 883+75)
(WB3-1 TO FACE WESTBOUND TRAFFIC)

DMS WB3-1

WB USH 12/14 (BELTLINE)

(2) 3-INCH CONDUITS
(POWER AND COMMUNICATION)

INSTALL VAULT OVER EXISTING CONDUIT

(2) 3-INCH CONDUITS
(FIBER)

CB24-1

(2) 3-INCH CONDUITS
(POWER, COMMUNICATION, AND FIBER)

PB24-1

CV24-1

PB24-2

(2) 3-INCH CONDUITS SPECIAL
(POWER AND COMMUNICATION)

MATCHLINE 880+50

881+00CL | 882+00CL | 883+00CL | 884+00CL | 885+00CL | 886+00CL | 887+00CL | 888+00CL | 889+00CL | 890+00CL | 891+00CL | 892+00CL | 893+00CL | 894+00CL | 895+

MATCHLINE 895+00

EB USH 12/14 (BELTLINE)

(2) 3-INCH CONDUITS SPECIAL
(POWER AND COMMUNICATION)

DMS EB24-1

PB23-4

PB23-5

CB23-2

(2) 3-INCH CONDUITS
(POWER, FIBER, AND COMMUNICATION)

(2) 3-INCH CONDUITS
(POWER AND COMMUNICATION)

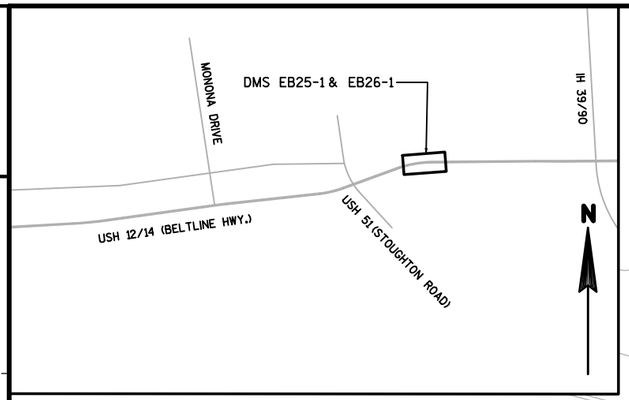
EB ON-RAMP

INSTALL DMS ON CANTILEVER S-13-2030 (STA 890+70)
(EB24-1 TO FACE EASTBOUND TRAFFIC)

LEGEND

- COMMUNICATIONS VAULT TYPE I
- PULL BOXES NON-CONDUCTIVE 24X42-INCH (WITH PULL BOX MARKER)
- PULL BOXES NON-CONDUCTIVE 24X36-INCH (WITH PULL BOX MARKER)
- ELECTICAL SERVICE METER BREAKER PEDESTAL
- FIELD CABINET
- OVERHEAD-CANTILEVER MOUNT DYNAMIC MESSAGE SIGN (DMS)
- BUTTERFLY-DUAL MOUNT DYNAMIC MESSAGE SIGN (DMS)
- ITS CONDUIT RIGID NONMETALLIC SCHEDULE 40
- POLE MOUNTED CABINET ON 32-FOOT POLE
- GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E



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SIGN
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(2) 3-INCH CONDUITS
(POWER, COMMUNICATION, AND FIBER)

CB25-1

PB25-1

3-INCH CONDUITS
(FIBER)

EXCV25-1

BROADWAY

(2) 3-INCH CONDUITS SPECIAL
(POWER AND COMMUNICATION)

DMS WB2-2

CONNECT INTO
EXISTING ITEM

MATCHLINE 895+00

00CL 896+00CL 897+00CL 898+00CL 899+00CL 900+00CL 901+00CL 902+00CL 903+00CL 904+00CL 905+00CL

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

906+00CL 907+00CL 908+00CL 909+

MATCHLINE 909+00

CB26-1

PB26-1

PB26-2

(2) 3-INCH CONDUITS
(POWER, FIBER, AND COMMUNICATION)

(2) 3-INCH CONDUITS SPECIAL
(POWER AND COMMUNICATION)

DMS WB2-1

DMS EB26-1

DMS EB25-1

✳ INSTALL DMS ON BUTTERFLY S-13-541 (STA 899+00)
(EB25-1 TO FACE EASTBOUND TRAFFIC)
(WB2-2 TO FACE WESTBOUND TRAFFIC)

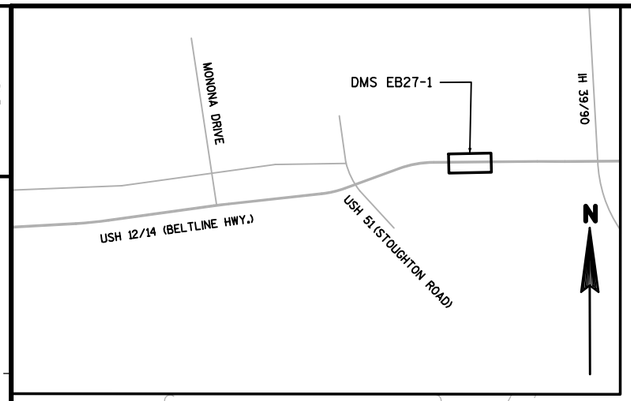
INSTALL DMS ON OVERHEAD S-13-2036 (STA 907+30)
(WB2-1 TO FACE WESTBOUND TRAFFIC)
(EB26-1 TO FACE EASTBOUND TRAFFIC)

LEGEND

- COMMUNICATIONS VAULT TYPE I
- PULL BOXES NON-CONDUCTIVE 24X42-INCH (WITH PULL BOX MARKER)
- PULL BOXES NON-CONDUCTIVE 24X36-INCH (WITH PULL BOX MARKER)
- ELECTICAL SERVICE METER BREAKER PEDESTAL
- FIELD CABINET
- OVERHEAD-CANTILEVER MOUNT DYNAMIC MESSAGE SIGN (DMS)
- BUTTERFLY-DUAL MOUNT DYNAMIC MESSAGE SIGN (DMS)
- ITS CONDUIT RIGID NONMETALLIC SCHEDULE 40
- POLE MOUNTED CABINET ON 32-FOOT POLE
- GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED

✳ W4-2L WILL BE DISPLAYED ON DMS EB25-1

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E



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AGRICULTURE DRIVE

WB USH 12/14 (BELTLINE)

EB USH 12/14 (BELTLINE)

MATCHLINE 909+00

MATCHLINE 923+00

00CL 910+00CL 911+00CL 912+00CL 913+00CL 914+00CL 915+00CL 916+00CL 917+00CL 918+00CL 919+00CL 920+00CL 921+00CL 922+00CL 923+

CONNECT INTO EXISTING ITEM

EXCV27-1

PB27-3

3-INCH CONDUITS (FIBER)

INSTALL DMS ON OVERHEAD S-13-188 (STA 921+00) (WB1-1 TO FACE WESTBOUND TRAFFIC)

DMS WB1-1

DMS EB27-1

INSTALL DMS ON CANTILEVER S-13-2031 (STA 917+00) (EB27-1 TO FACE EASTBOUND TRAFFIC)

3-INCH CONDUITS SPECIAL (FIBER)

(2) 3-INCH CONDUITS SPECIAL (POWER AND COMMUNICATION)

(2) 3-INCH CONDUITS SPECIAL (POWER AND COMMUNICATION)

PB27-1

PB27-2

PB27-3

(2) 3-INCH CONDUITS (POWER, FIBER, AND COMMUNICATION)

(2) 3-INCH CONDUITS (POWER AND COMMUNICATION)

(2) 3-INCH CONDUITS (POWER AND COMMUNICATION)

EXCB27-1

CONNECT INTO EXISTING ITEM

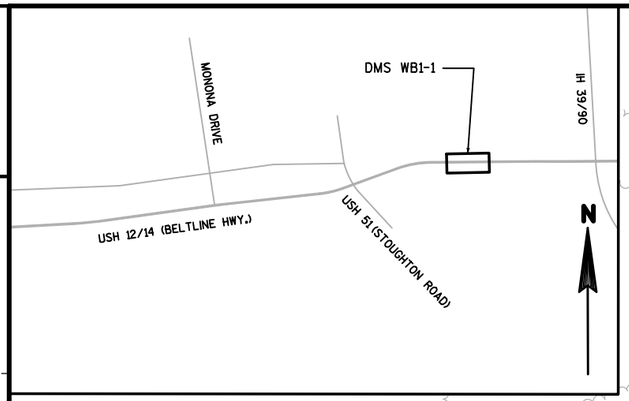
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SIGN

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LEGEND

- COMMUNICATIONS VAULT TYPE I
- PULL BOXES NON-CONDUCTIVE 24X42-INCH (WITH PULL BOX MARKER)
- PULL BOXES NON-CONDUCTIVE 24X36-INCH (WITH PULL BOX MARKER)
- ELECTICAL SERVICE METER BREAKER PEDESTAL
- FIELD CABINET
- OVERHEAD-CANTILEVER MOUNT DYNAMIC MESSAGE SIGN (DMS)
- BUTTERFLY-DUAL MOUNT DYNAMIC MESSAGE SIGN (DMS)
- ITS CONDUIT RIGID NONMETALLIC SCHEDULE 40
- POLE MOUNTED CABINET ON 32-FOOT POLE
- GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED



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(2) 3-INCH CONDUITS
(POWER, FIBER, AND COMMUNICATION)

CB27-2

TYPE 5 POLE
CAMERA

PB27-4

3-INCH CONDUITS
(FIBER)

CONNECT INTO EXISTING ITEM

EXCV27-1

WB USH 12/14 (BELTLINE)

MATCHLINE 923+00

00CL 924+00CL 925+00CL 926+00CL 927+00CL 928+00CL 929+00CL 930+00CL 931+00CL 932+00CL 933+00CL 934+00CL 935+00CL 936+00CL 937+00CL 938

EB USH 12/14 (BELTLINE)

SIGN

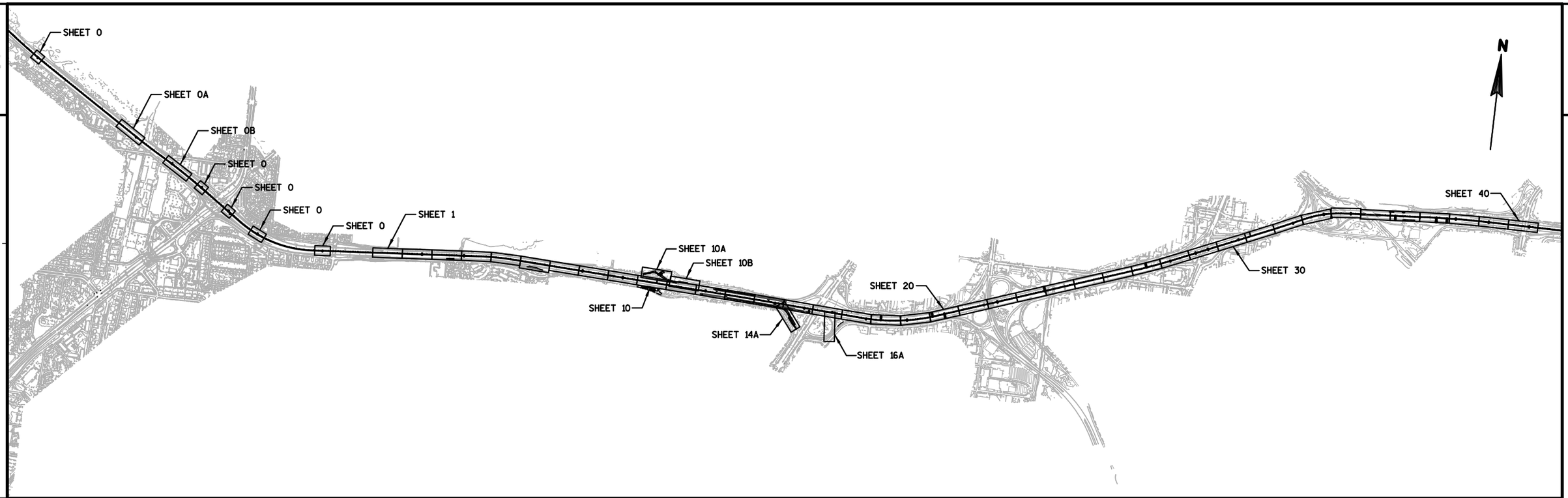
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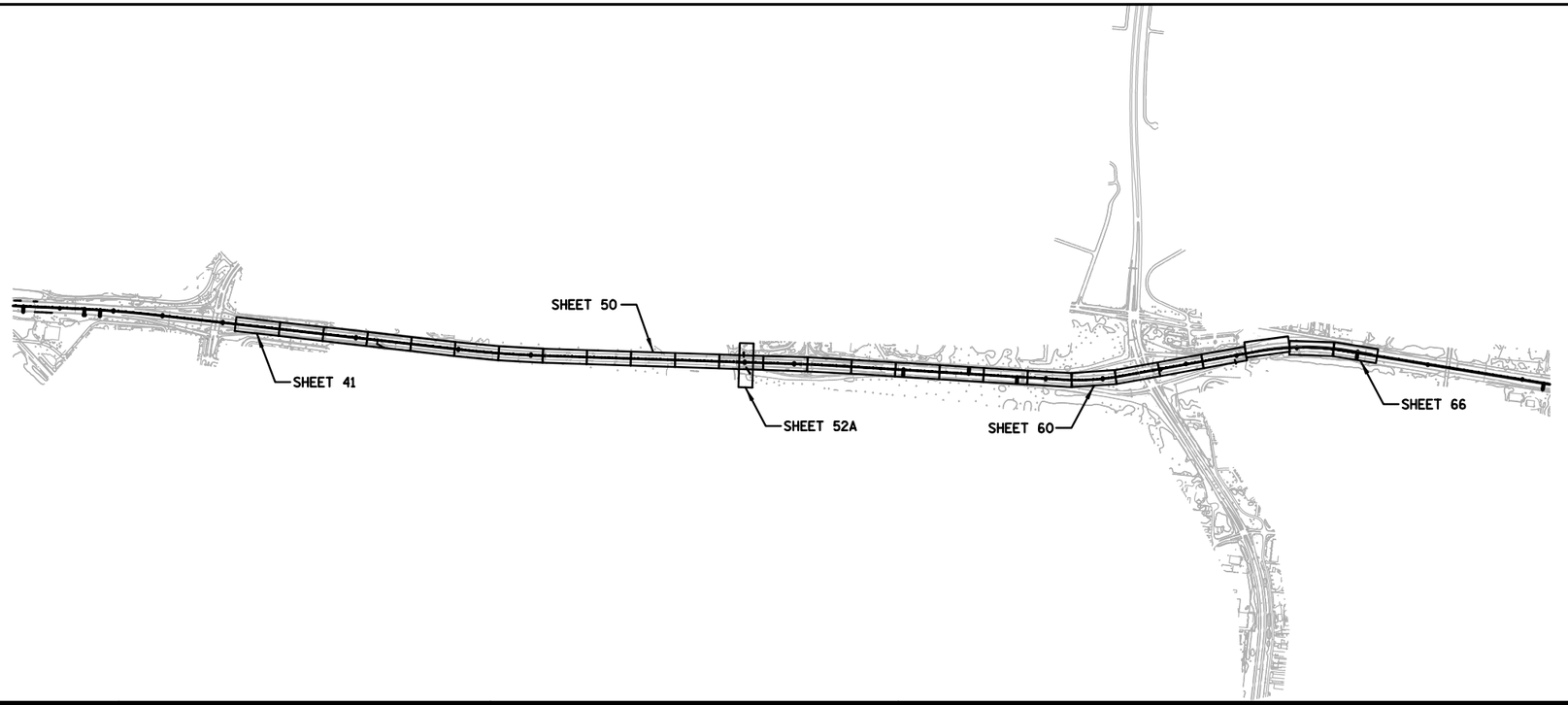
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LEGEND

- COMMUNICATIONS VAULT TYPE I
- PULL BOXES NON-CONDUCTIVE 24X42-INCH (WITH PULL BOX MARKER)
- PULL BOXES NON-CONDUCTIVE 24X36-INCH (WITH PULL BOX MARKER)
- ELECTICAL SERVICE METER BREAKER PEDESTAL
- FIELD CABINET
- OVERHEAD-CANTILEVER MOUNT DYNAMIC MESSAGE SIGN (DMS)
- BUTTERFLY-DUAL MOUNT DYNAMIC MESSAGE SIGN (DMS)
- ITS CONDUIT RIGID NONMETALLIC SCHEDULE 40
- POLE MOUNTED CABINET ON 32-FOOT POLE
- GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	FTMS	SHEET	E

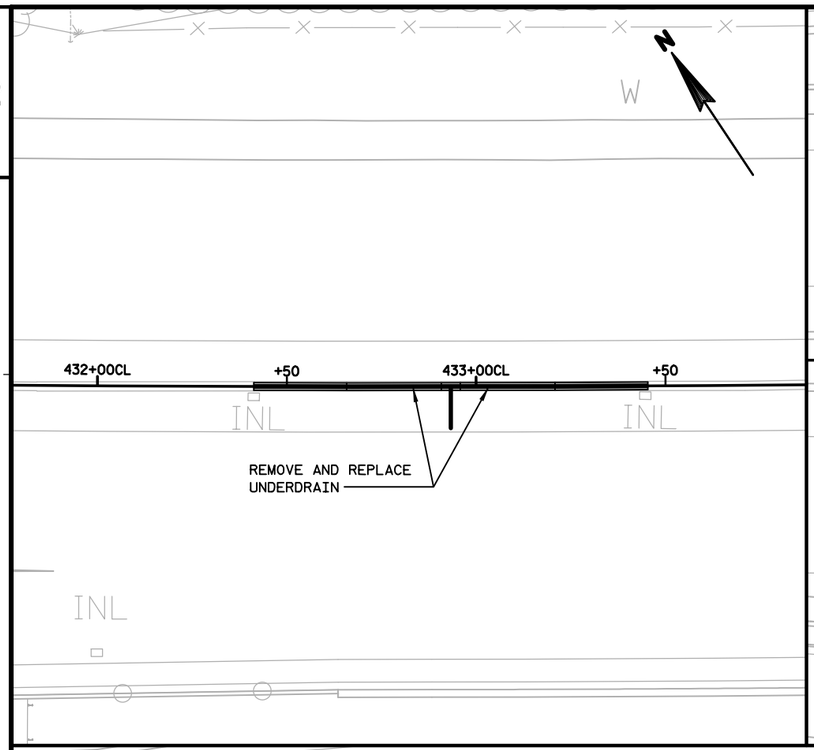


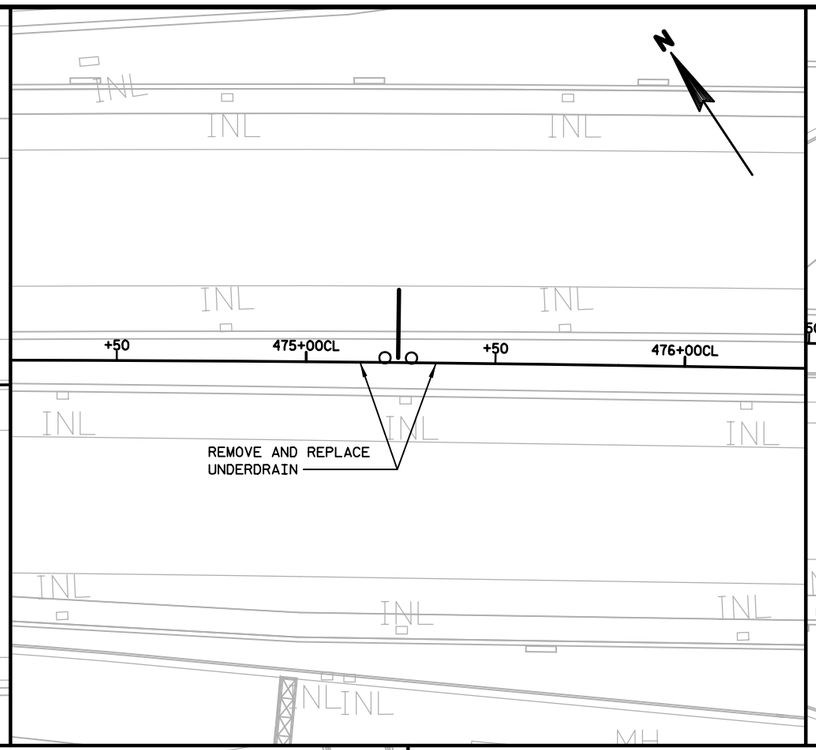


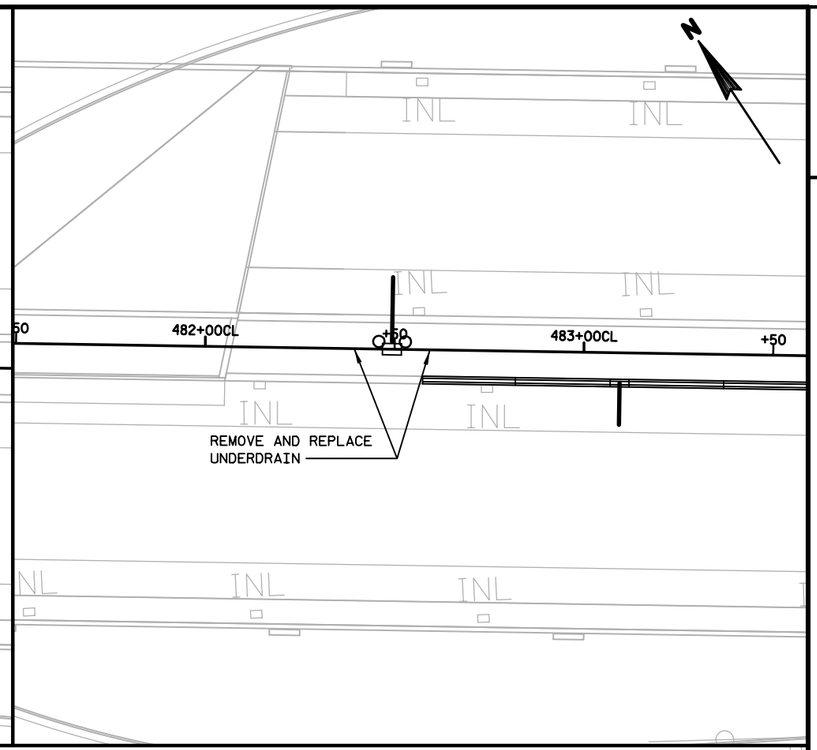
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER OVERVIEW	SHEET	E

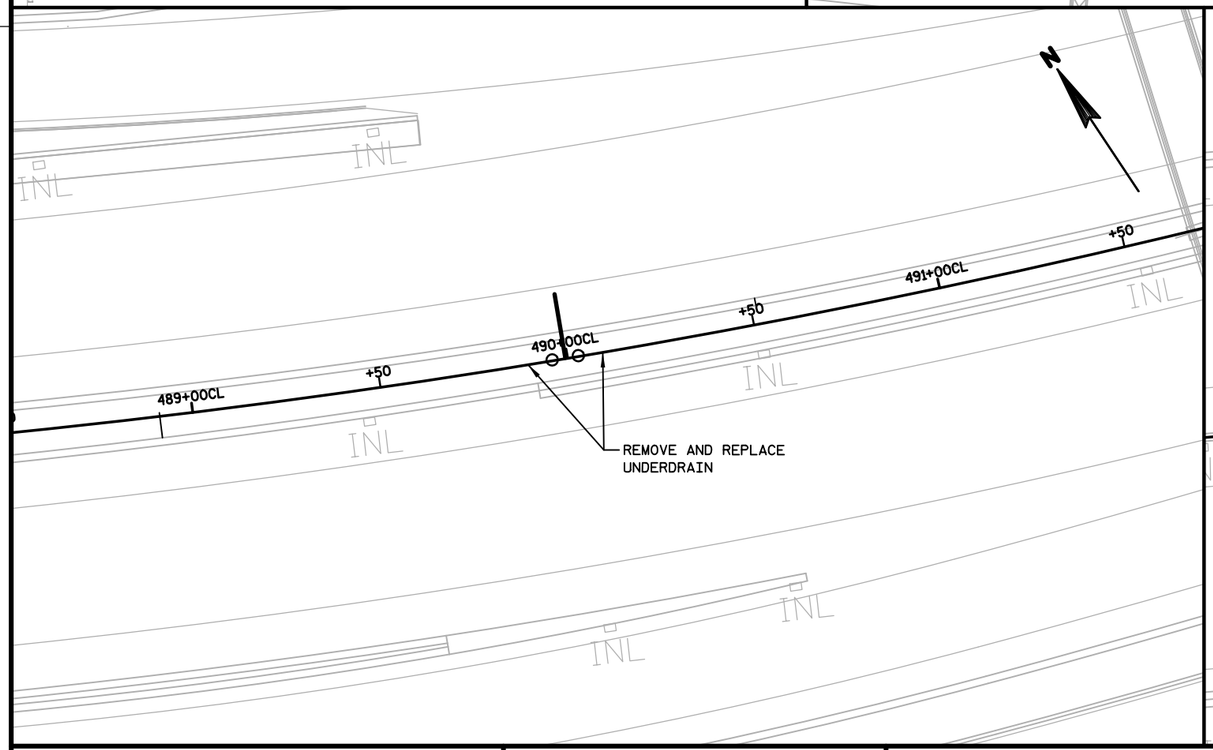
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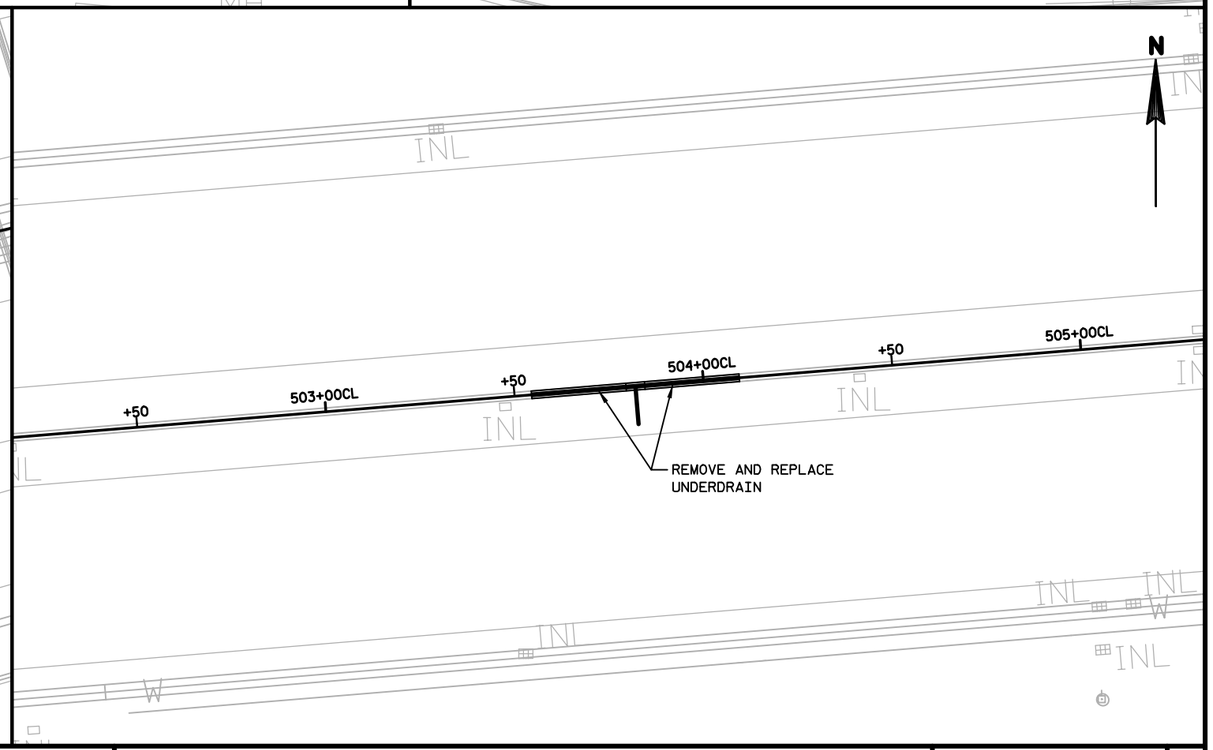
WISDOT/CADDS SHEET 42











PROJECT NO:	HWY:	COUNTY:		SHEET	E

2

WB USH 12/14

EB USH 12/14

454+00

455+00CL

+50

456+00CL

+50

457+00CL

+50

458+00CL

+50

459+00CL

+50

460+00

D

001

D

002

D

003

REMOVE AND REPLACE
UNDERDRAIN

RIPRAP

INL

LEGEND

A	ADJUSTING INLET COVERS REQ'D.	G	REMOVING INLET COVERS REQ'D.
B	STORM SEWER TAP REQ'D.	H	REMOVING STORM SEWER 12-INCH REQ'D.
C	REMOVE VANE DRAIN REQ'D.	I	REMOVING STORM SEWER 15-INCH REQ'D.
D	CULVERT PIPE CONCRETE COLLARS REQ'D.	J	REMOVING STORM SEWER 18-INCH REQ'D.
E	ADJUSTING MANHOLE COVERS REQ'D.	K	REMOVING STORM SEWER 24-INCH REQ'D.
F	REMOVING INLETS REQ'D.	////	REMOVING STORM SEWER.

1015
1010
1005
1000
995
990
985
980
975
970

455+00
456+00
457+00
458+00
459+00
460+00

BEND 001
BEND 002
BEND 003

995.93
995.12
994.31

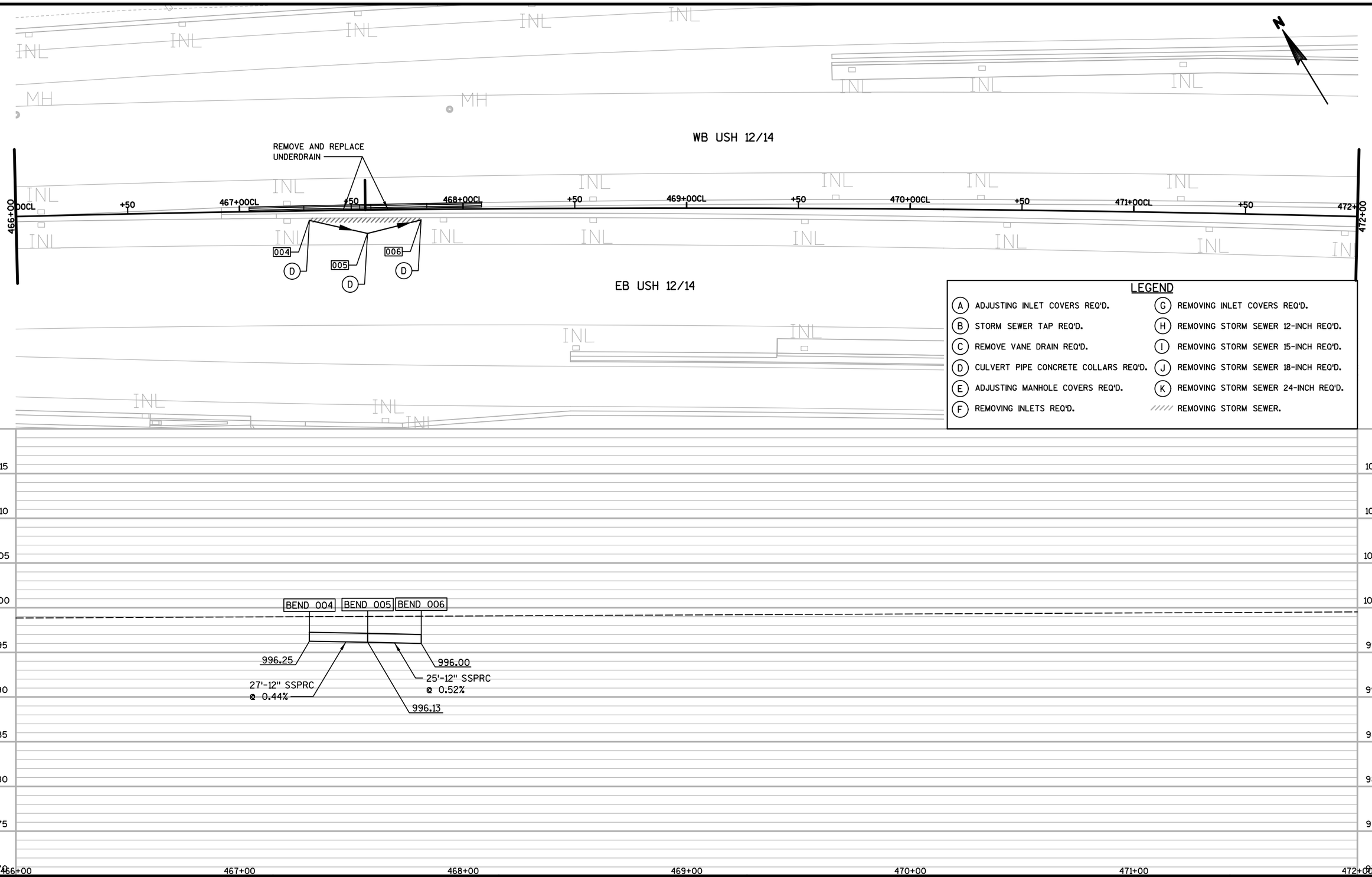
30'-12" SSPRC
@ 2.70%

30'-12" SSPRC
@ 2.70%

PROJECT NO:	HWY:	COUNTY:		SHEET	E

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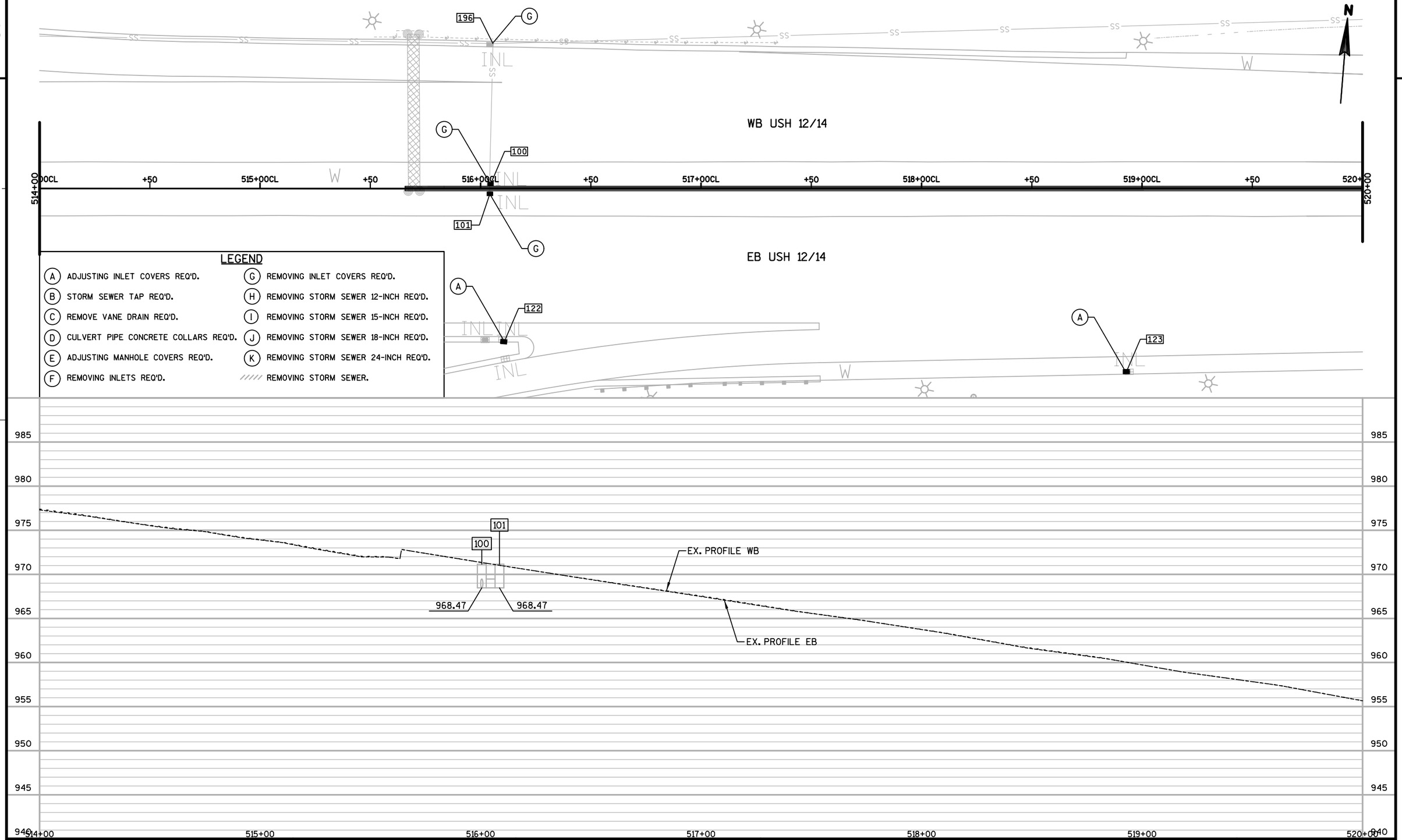


LEGEND

(A) ADJUSTING INLET COVERS REQ'D.	(G) REMOVING INLET COVERS REQ'D.
(B) STORM SEWER TAP REQ'D.	(H) REMOVING STORM SEWER 12-INCH REQ'D.
(C) REMOVE VANE DRAIN REQ'D.	(I) REMOVING STORM SEWER 15-INCH REQ'D.
(D) CULVERT PIPE CONCRETE COLLARS REQ'D.	(J) REMOVING STORM SEWER 18-INCH REQ'D.
(E) ADJUSTING MANHOLE COVERS REQ'D.	(K) REMOVING STORM SEWER 24-INCH REQ'D.
(F) REMOVING INLETS REQ'D.	////// REMOVING STORM SEWER.

PROJECT NO:	HWY:	COUNTY:		SHEET	E

2

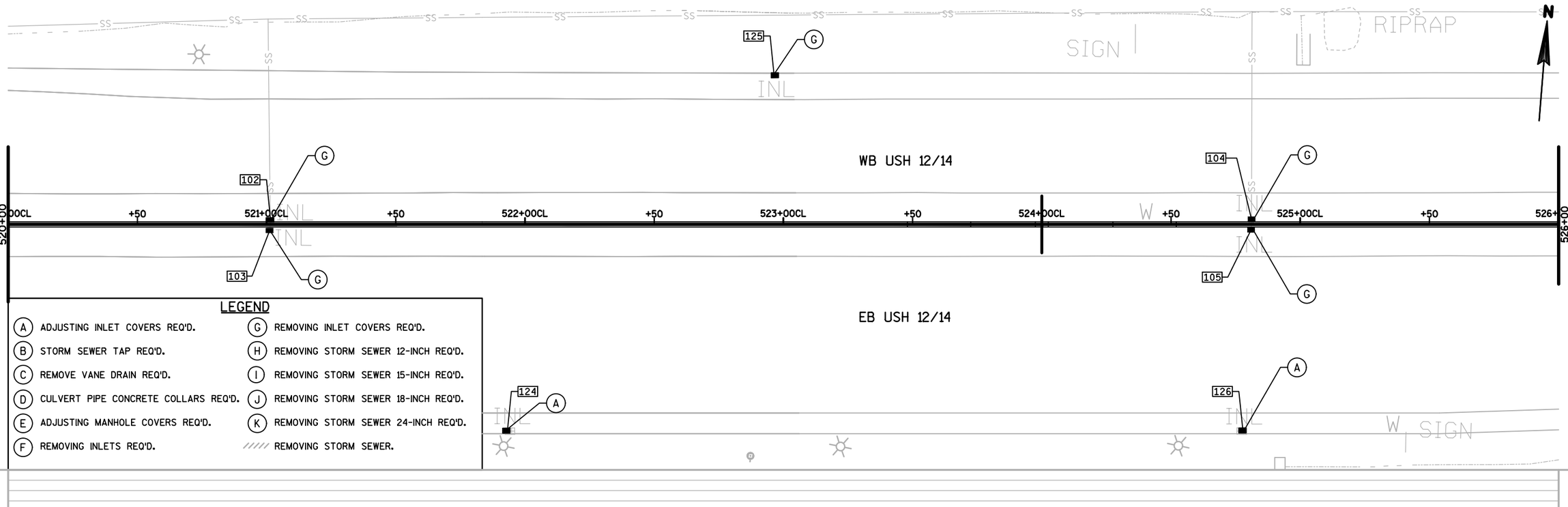


LEGEND

(A)	ADJUSTING INLET COVERS REQ'D.	(G)	REMOVING INLET COVERS REQ'D.
(B)	STORM SEWER TAP REQ'D.	(H)	REMOVING STORM SEWER 12-INCH REQ'D.
(C)	REMOVE VANE DRAIN REQ'D.	(I)	REMOVING STORM SEWER 15-INCH REQ'D.
(D)	CULVERT PIPE CONCRETE COLLARS REQ'D.	(J)	REMOVING STORM SEWER 18-INCH REQ'D.
(E)	ADJUSTING MANHOLE COVERS REQ'D.	(K)	REMOVING STORM SEWER 24-INCH REQ'D.
(F)	REMOVING INLETS REQ'D.	//////	REMOVING STORM SEWER.

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

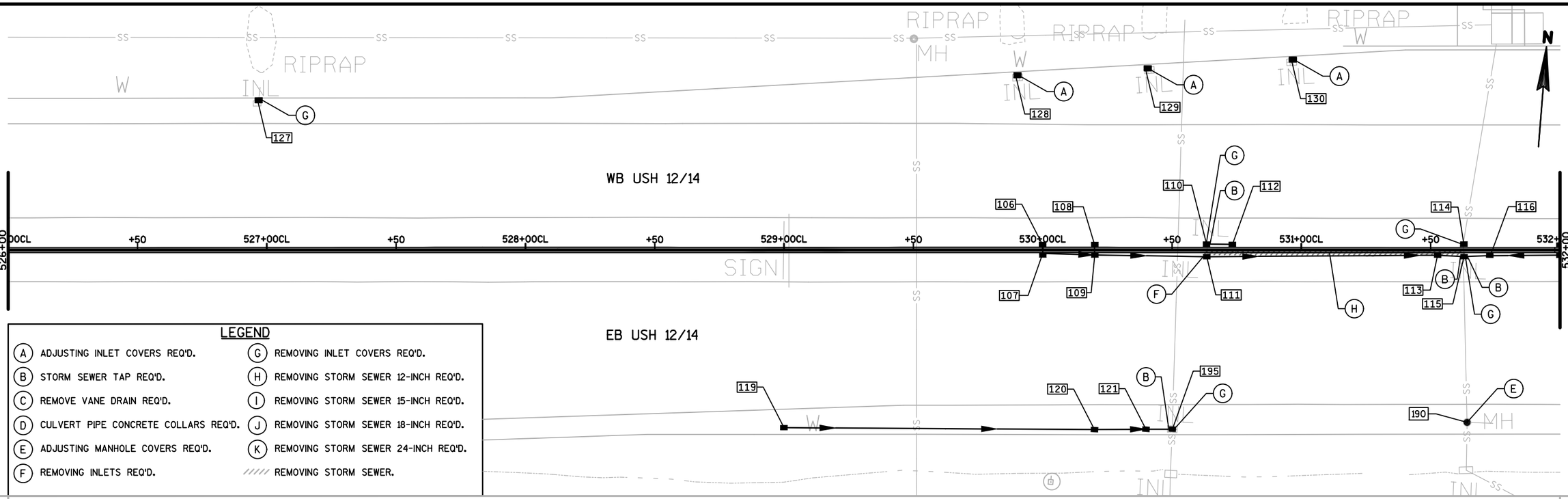
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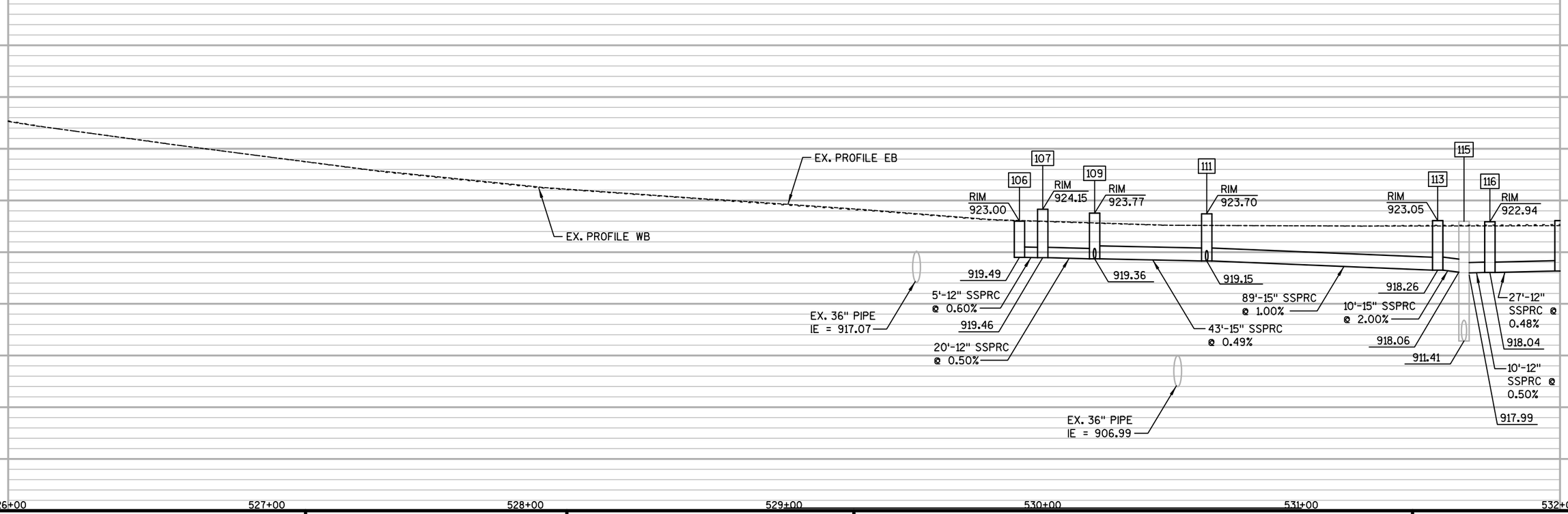


LEGEND

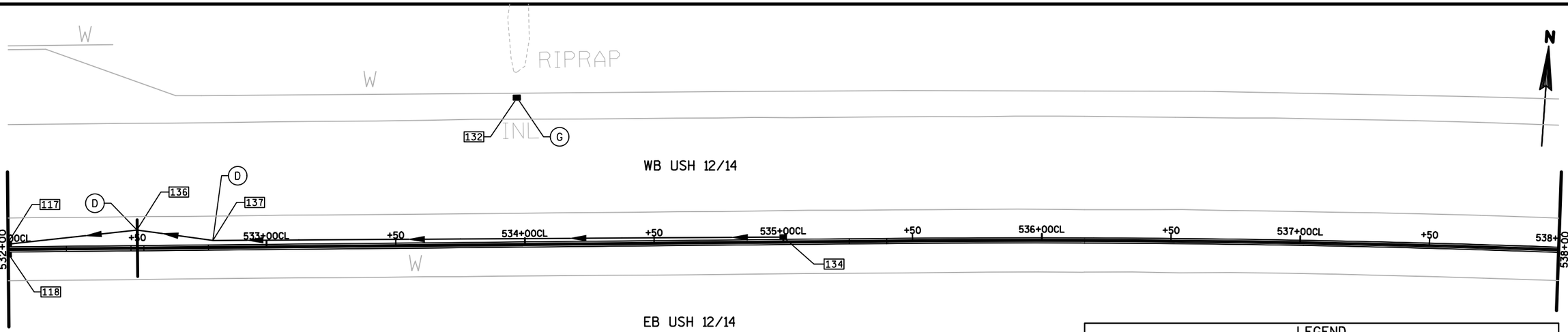
A	ADJUSTING INLET COVERS REQ'D.	G	REMOVING INLET COVERS REQ'D.
B	STORM SEWER TAP REQ'D.	H	REMOVING STORM SEWER 12-INCH REQ'D.
C	REMOVE VANE DRAIN REQ'D.	I	REMOVING STORM SEWER 15-INCH REQ'D.
D	CULVERT PIPE CONCRETE COLLARS REQ'D.	J	REMOVING STORM SEWER 18-INCH REQ'D.
E	ADJUSTING MANHOLE COVERS REQ'D.	K	REMOVING STORM SEWER 24-INCH REQ'D.
F	REMOVING INLETS REQ'D.	/////	REMOVING STORM SEWER.

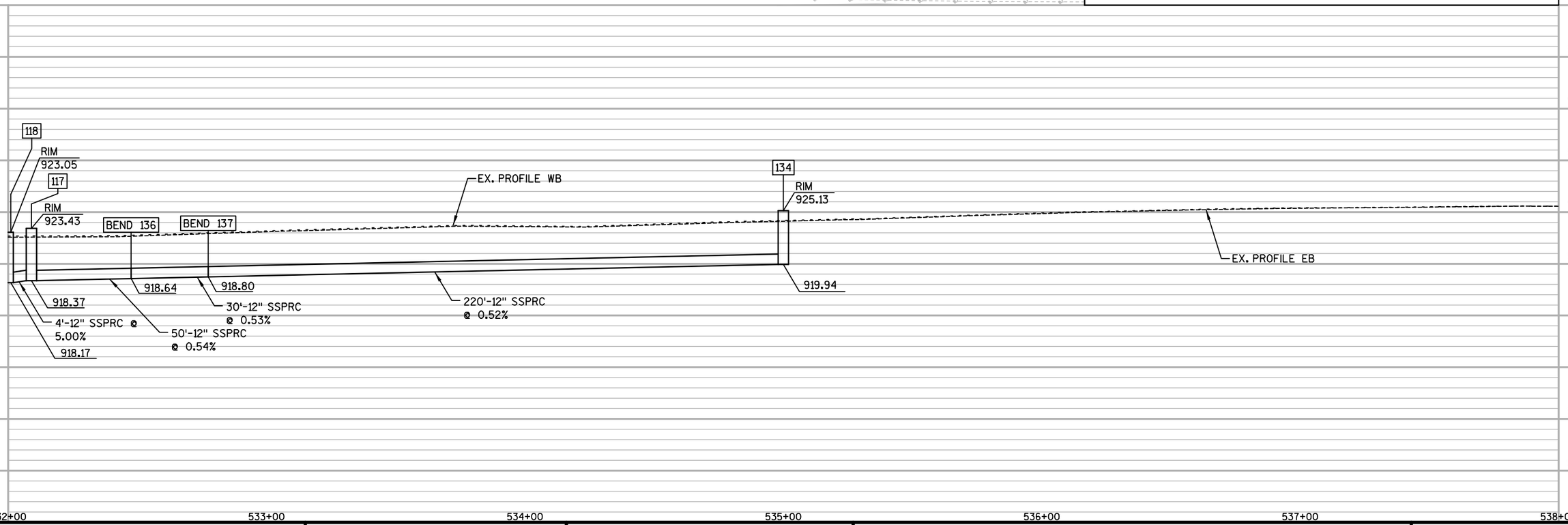
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E





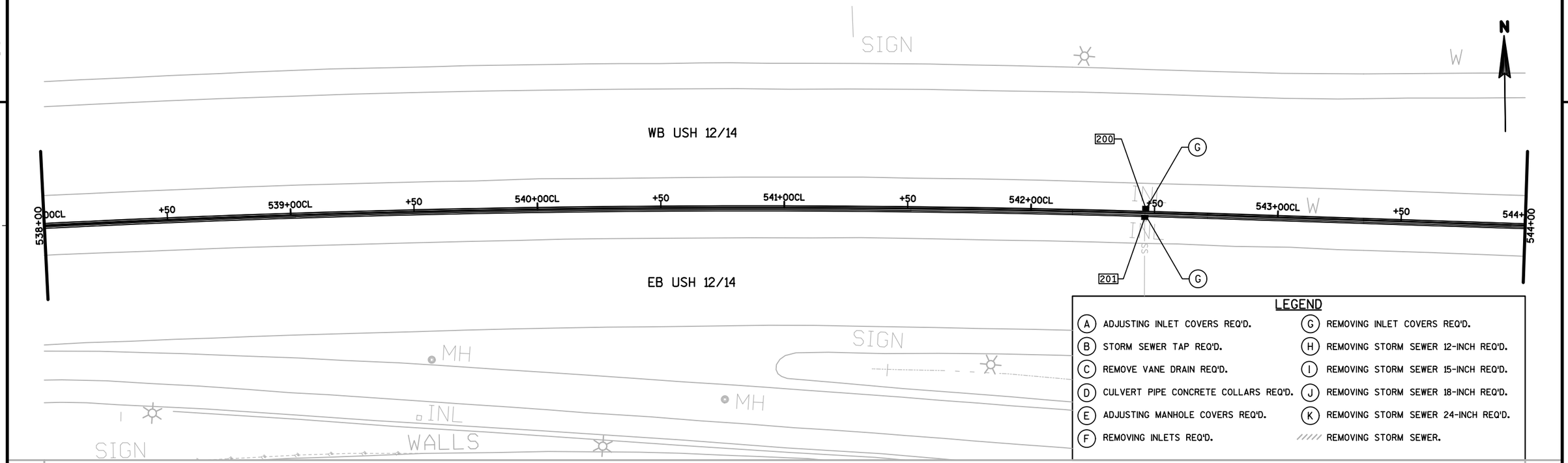
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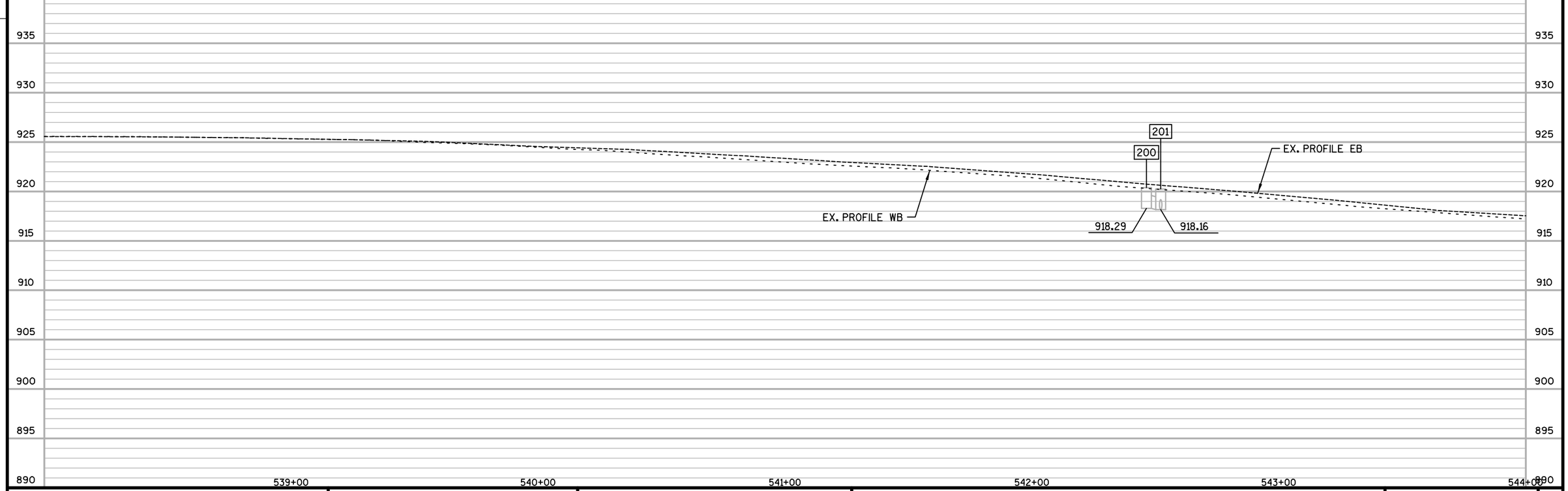
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2



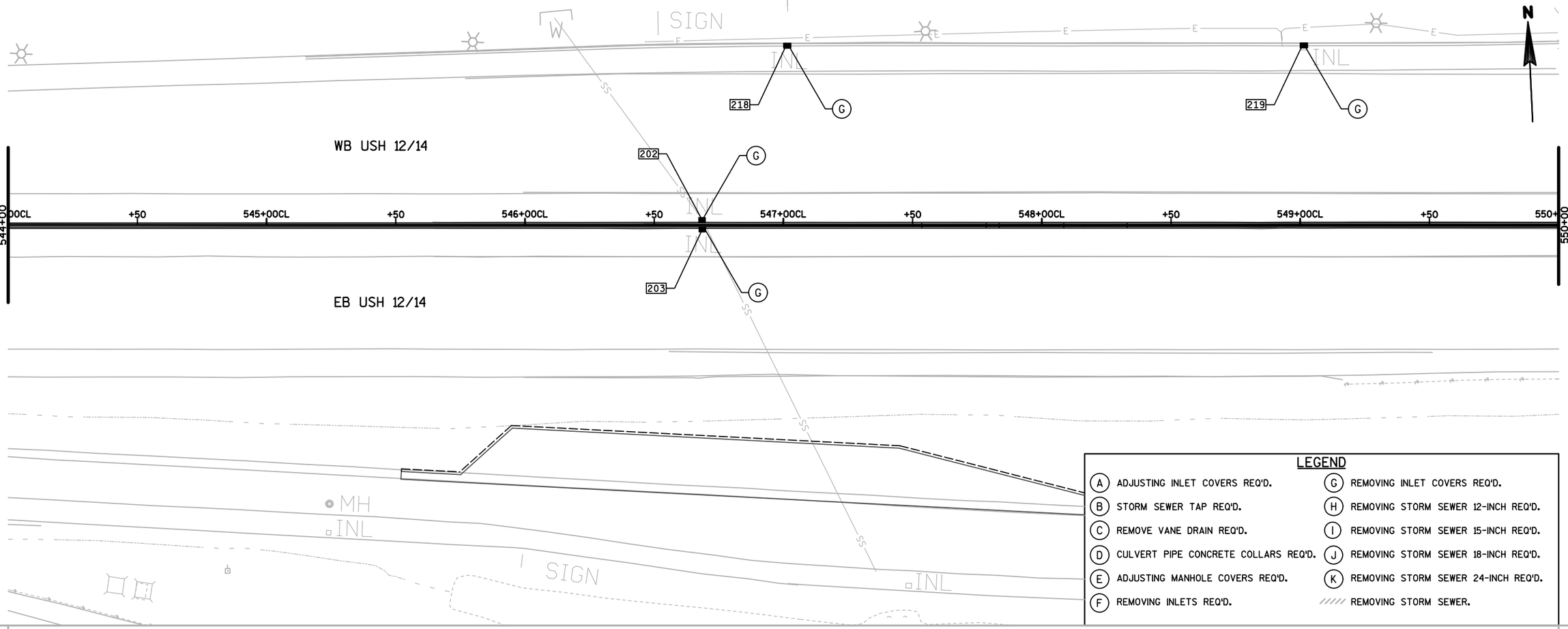
LEGEND

(A) ADJUSTING INLET COVERS REQ'D.	(G) REMOVING INLET COVERS REQ'D.
(B) STORM SEWER TAP REQ'D.	(H) REMOVING STORM SEWER 12-INCH REQ'D.
(C) REMOVE VANE DRAIN REQ'D.	(I) REMOVING STORM SEWER 15-INCH REQ'D.
(D) CULVERT PIPE CONCRETE COLLARS REQ'D.	(J) REMOVING STORM SEWER 18-INCH REQ'D.
(E) ADJUSTING MANHOLE COVERS REQ'D.	(K) REMOVING STORM SEWER 24-INCH REQ'D.
(F) REMOVING INLETS REQ'D.	///// REMOVING STORM SEWER.



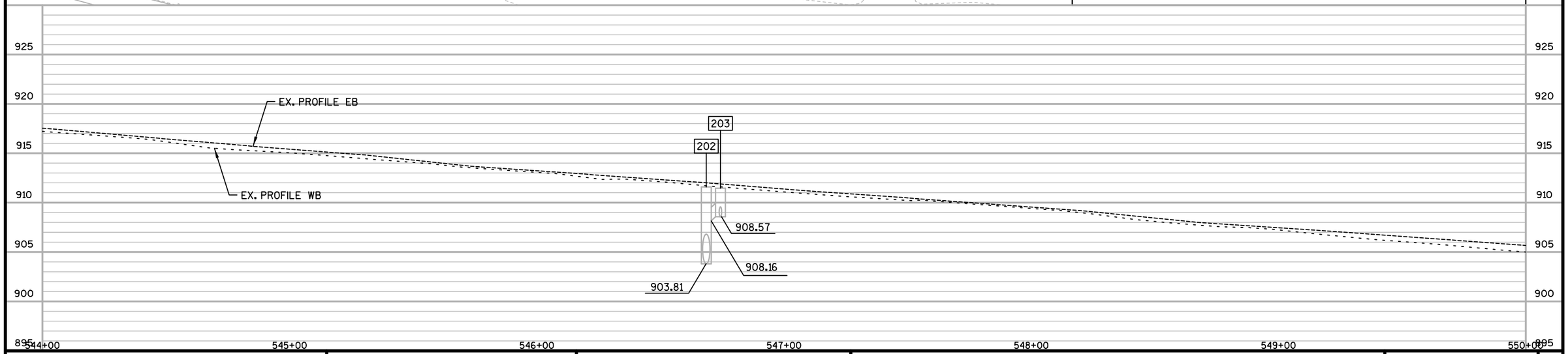
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2

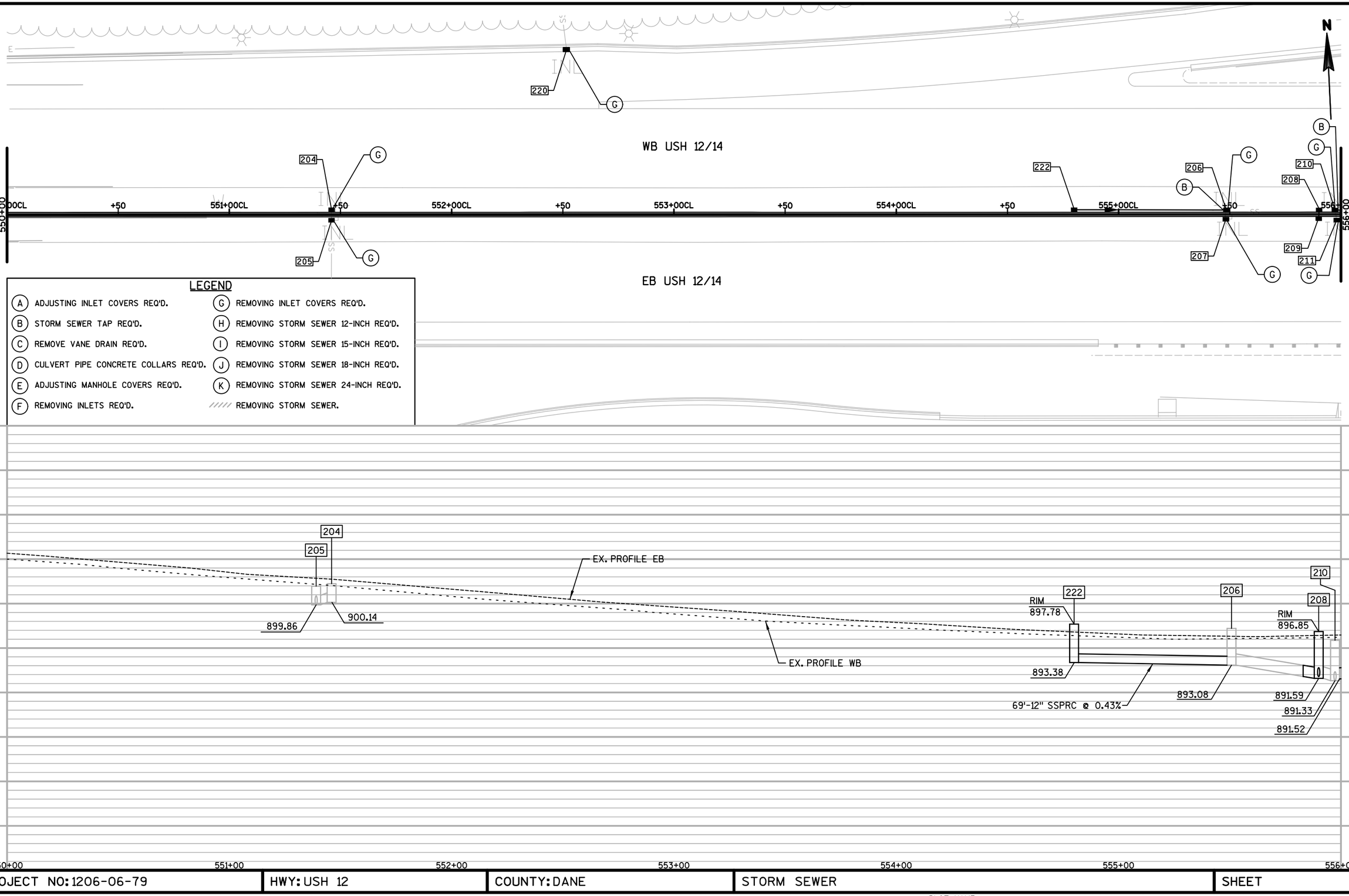


LEGEND

A	ADJUSTING INLET COVERS REQ'D.	G	REMOVING INLET COVERS REQ'D.
B	STORM SEWER TAP REQ'D.	H	REMOVING STORM SEWER 12-INCH REQ'D.
C	REMOVE VANE DRAIN REQ'D.	I	REMOVING STORM SEWER 15-INCH REQ'D.
D	CULVERT PIPE CONCRETE COLLARS REQ'D.	J	REMOVING STORM SEWER 18-INCH REQ'D.
E	ADJUSTING MANHOLE COVERS REQ'D.	K	REMOVING STORM SEWER 24-INCH REQ'D.
F	REMOVING INLETS REQ'D.	/////	REMOVING STORM SEWER.



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2

WB USH 12/14

EB USH 12/14

N

556+00 | 557+00CL | +50 | 558+00CL | +50 | 559+00CL | +50 | 560+00CL | +50 | 561+00CL | +50 | 562+00

212 214 213 215 299 216 217 221

LEGEND

A	ADJUSTING INLET COVERS REQ'D.	G	REMOVING INLET COVERS REQ'D.
B	STORM SEWER TAP REQ'D.	H	REMOVING STORM SEWER 12-INCH REQ'D.
C	REMOVE VANE DRAIN REQ'D.	I	REMOVING STORM SEWER 15-INCH REQ'D.
D	CULVERT PIPE CONCRETE COLLARS REQ'D.	J	REMOVING STORM SEWER 18-INCH REQ'D.
E	ADJUSTING MANHOLE COVERS REQ'D.	K	REMOVING STORM SEWER 24-INCH REQ'D.
F	REMOVING INLETS REQ'D.	//////	REMOVING STORM SEWER.

910 905 900 895 890 885 880 875 870 865

212 RIM 896.90
214 RIM 897.23
215 RIM 897.22

892.37
5-12" SSPRC @ 0.40%
892.35
40'-12" SSPRC @ 1.10%
891.91
891.66
13'-15" SSPRC @ 1.08%

EX. PROFILE EB
EX. PROFILE WB

216 898.72
217 898.29
898.39

556+00 | 557+00 | 558+00 | 559+00 | 560+00 | 561+00 | 562+00

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2

N

WB USH 12/14

EB USH 12/14

562+00 | 562+00CL | +50 | 563+00CL | +50 | 564+00CL | +50 | 565+00CL | +50 | 566+00CL | +50 | 567+00CL | +50 | 568+00

394 A

A 300

301 A

A 324

302 G

303 G

LEGEND

A	ADJUSTING INLET COVERS REQ'D.	G	REMOVING INLET COVERS REQ'D.
B	STORM SEWER TAP REQ'D.	H	REMOVING STORM SEWER 12-INCH REQ'D.
C	REMOVE VANE DRAIN REQ'D.	I	REMOVING STORM SEWER 15-INCH REQ'D.
D	CULVERT PIPE CONCRETE COLLARS REQ'D.	J	REMOVING STORM SEWER 18-INCH REQ'D.
E	ADJUSTING MANHOLE COVERS REQ'D.	K	REMOVING STORM SEWER 24-INCH REQ'D.
F	REMOVING INLETS REQ'D.	//////	REMOVING STORM SEWER.

905 900 895 890 885 880 875 870 865 860

301 300 EX. PROFILE EB

897.83

897.76

EX. PROFILE WB

303 302

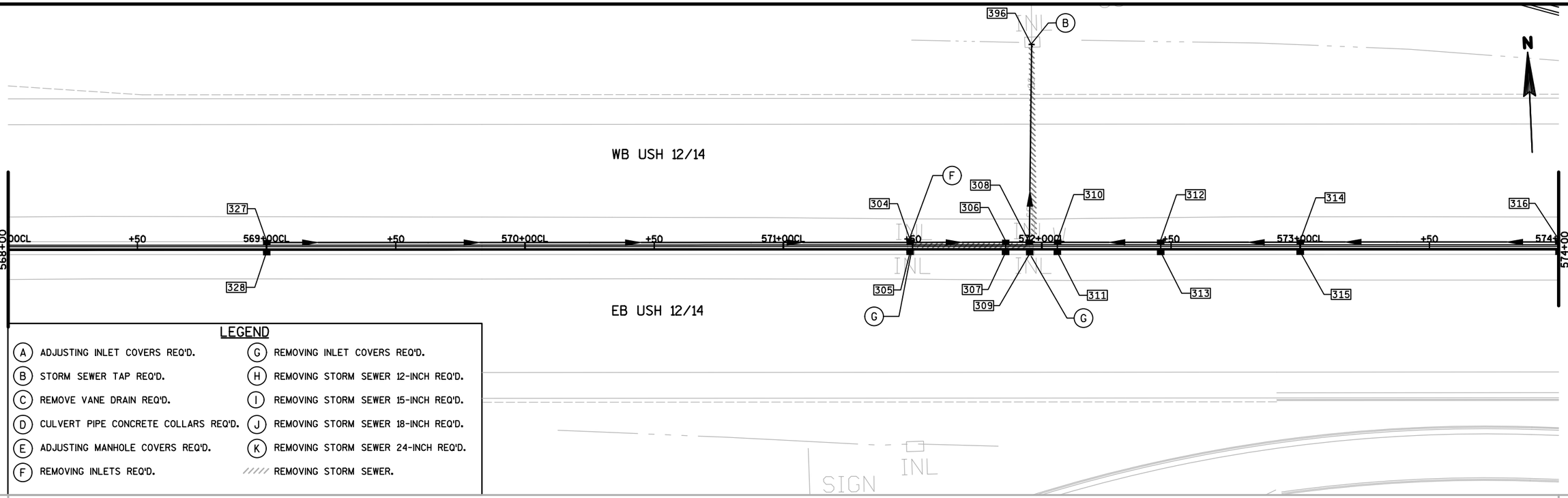
892.39

892.86

562+00 563+00 564+00 565+00 566+00 567+00 568+00

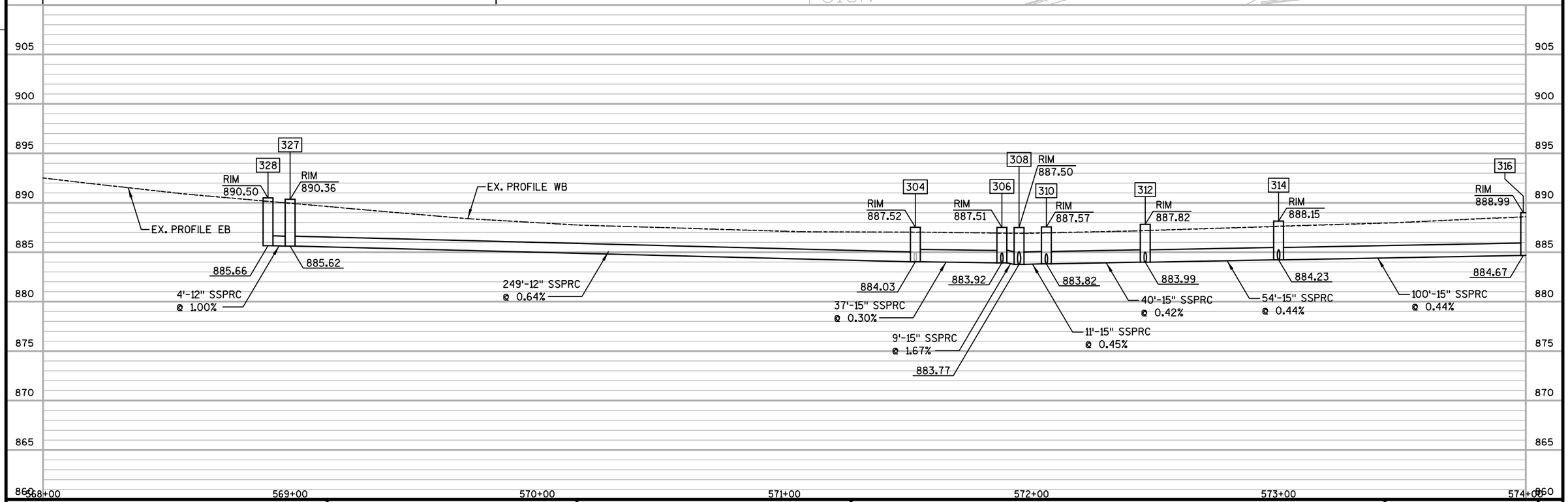
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2



LEGEND

(A)	ADJUSTING INLET COVERS REQ'D.	(G)	REMOVING INLET COVERS REQ'D.
(B)	STORM SEWER TAP REQ'D.	(H)	REMOVING STORM SEWER 12-INCH REQ'D.
(C)	REMOVE VANE DRAIN REQ'D.	(I)	REMOVING STORM SEWER 15-INCH REQ'D.
(D)	CULVERT PIPE CONCRETE COLLARS REQ'D.	(J)	REMOVING STORM SEWER 18-INCH REQ'D.
(E)	ADJUSTING MANHOLE COVERS REQ'D.	(K)	REMOVING STORM SEWER 24-INCH REQ'D.
(F)	REMOVING INLETS REQ'D.	//////	REMOVING STORM SEWER.

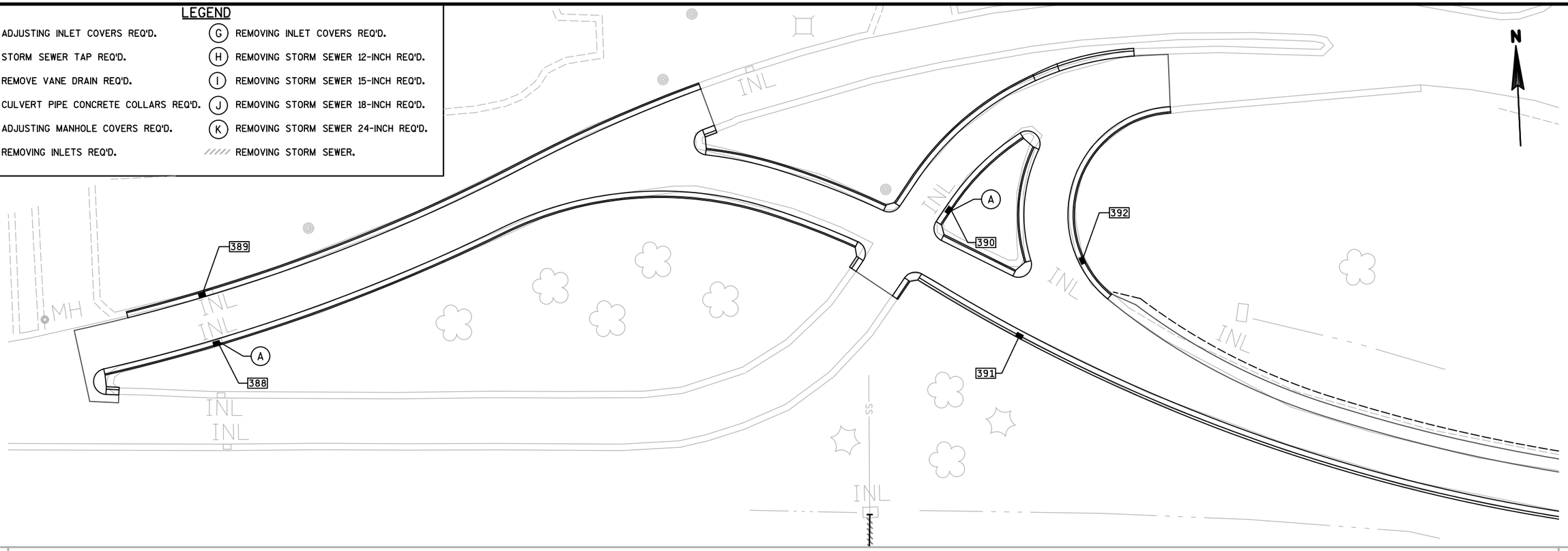


PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2

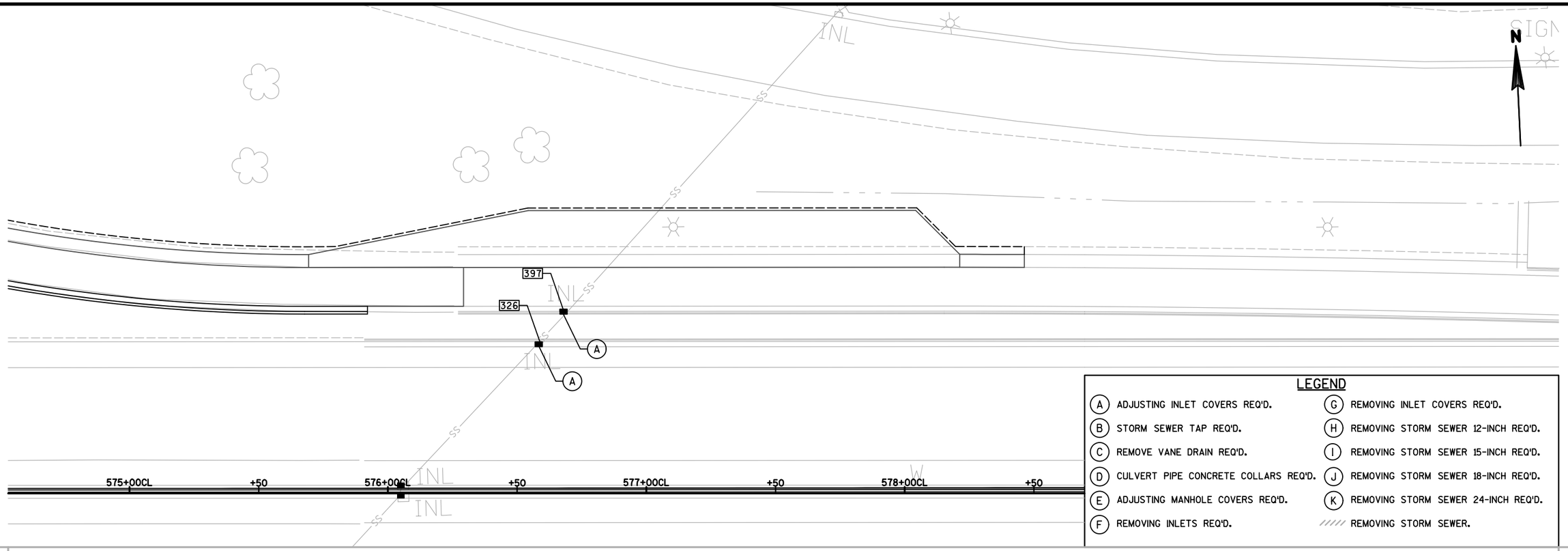
LEGEND

- (A) ADJUSTING INLET COVERS REQ'D.
- (B) STORM SEWER TAP REQ'D.
- (C) REMOVE VANE DRAIN REQ'D.
- (D) CULVERT PIPE CONCRETE COLLARS REQ'D.
- (E) ADJUSTING MANHOLE COVERS REQ'D.
- (F) REMOVING INLETS REQ'D.
- (G) REMOVING INLET COVERS REQ'D.
- (H) REMOVING STORM SEWER 12-INCH REQ'D.
- (I) REMOVING STORM SEWER 15-INCH REQ'D.
- (J) REMOVING STORM SEWER 18-INCH REQ'D.
- (K) REMOVING STORM SEWER 24-INCH REQ'D.
- ////// REMOVING STORM SEWER.



2

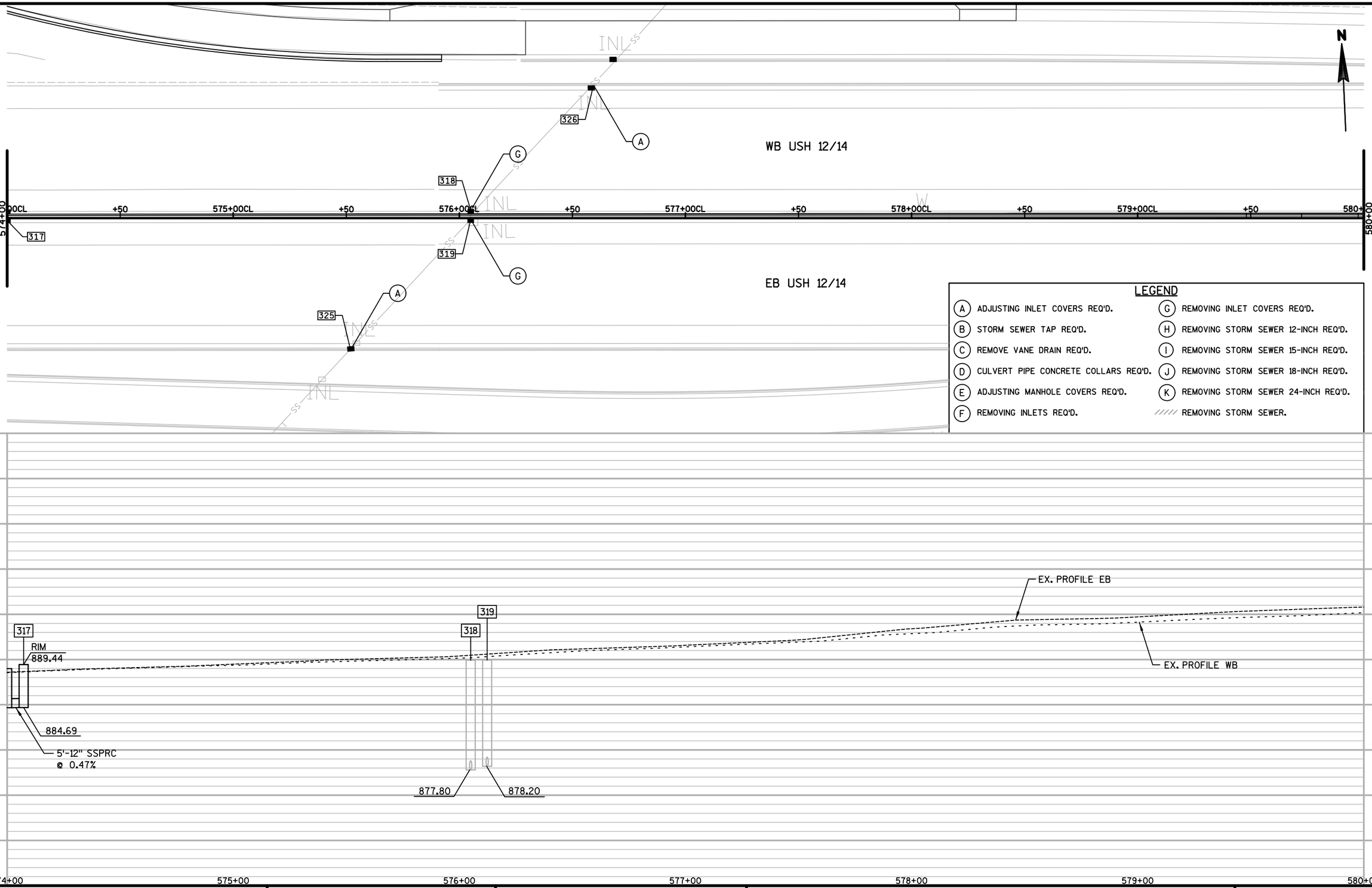
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E



LEGEND

(A) ADJUSTING INLET COVERS REQ'D.	(G) REMOVING INLET COVERS REQ'D.
(B) STORM SEWER TAP REQ'D.	(H) REMOVING STORM SEWER 12-INCH REQ'D.
(C) REMOVE VANE DRAIN REQ'D.	(I) REMOVING STORM SEWER 15-INCH REQ'D.
(D) CULVERT PIPE CONCRETE COLLARS REQ'D.	(J) REMOVING STORM SEWER 18-INCH REQ'D.
(E) ADJUSTING MANHOLE COVERS REQ'D.	(K) REMOVING STORM SEWER 24-INCH REQ'D.
(F) REMOVING INLETS REQ'D.	////// REMOVING STORM SEWER.

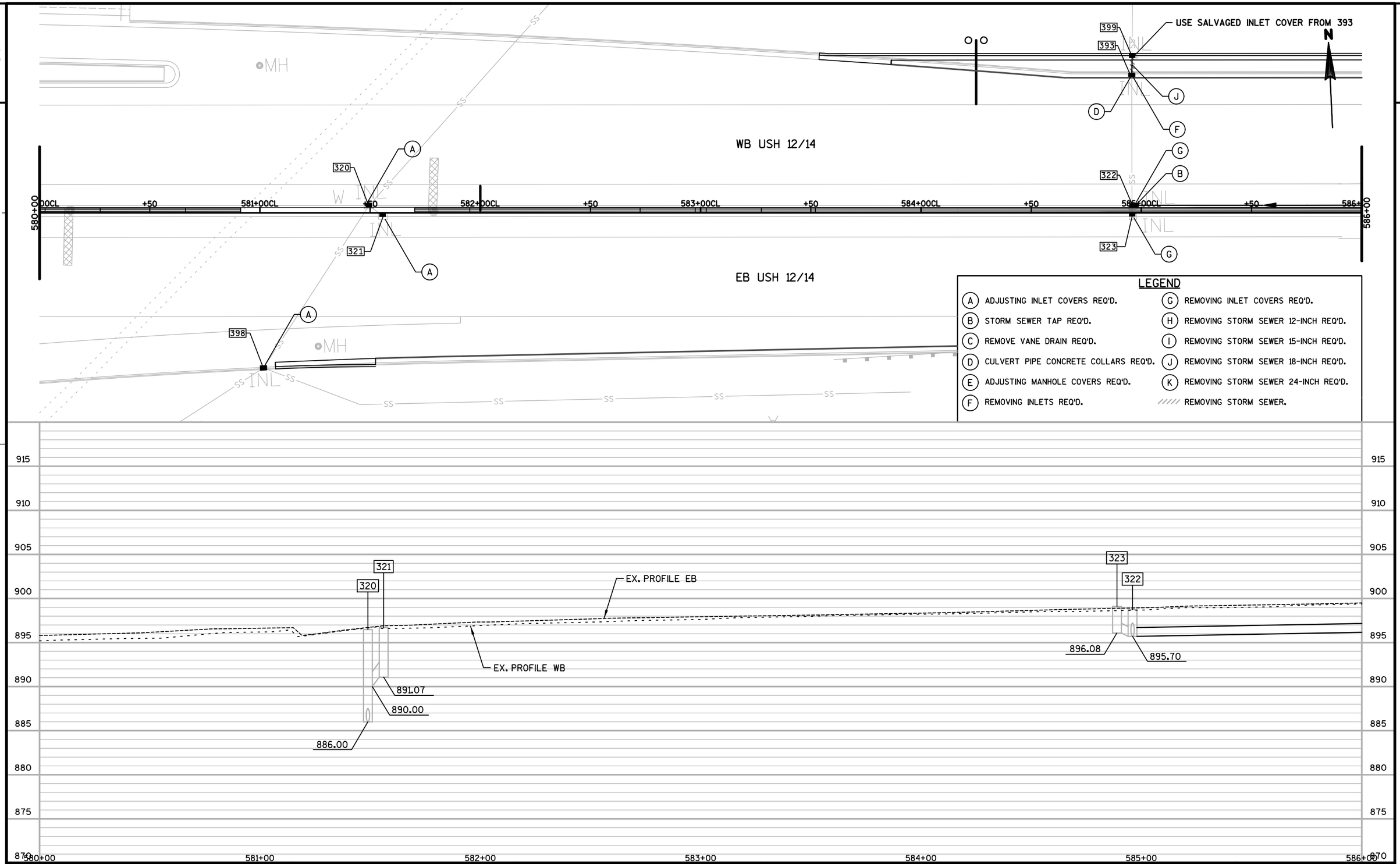
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LEGEND

(A) ADJUSTING INLET COVERS REQ'D.	(G) REMOVING INLET COVERS REQ'D.
(B) STORM SEWER TAP REQ'D.	(H) REMOVING STORM SEWER 12-INCH REQ'D.
(C) REMOVE VANE DRAIN REQ'D.	(I) REMOVING STORM SEWER 15-INCH REQ'D.
(D) CULVERT PIPE CONCRETE COLLARS REQ'D.	(J) REMOVING STORM SEWER 18-INCH REQ'D.
(E) ADJUSTING MANHOLE COVERS REQ'D.	(K) REMOVING STORM SEWER 24-INCH REQ'D.
(F) REMOVING INLETS REQ'D.	////// REMOVING STORM SEWER.

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

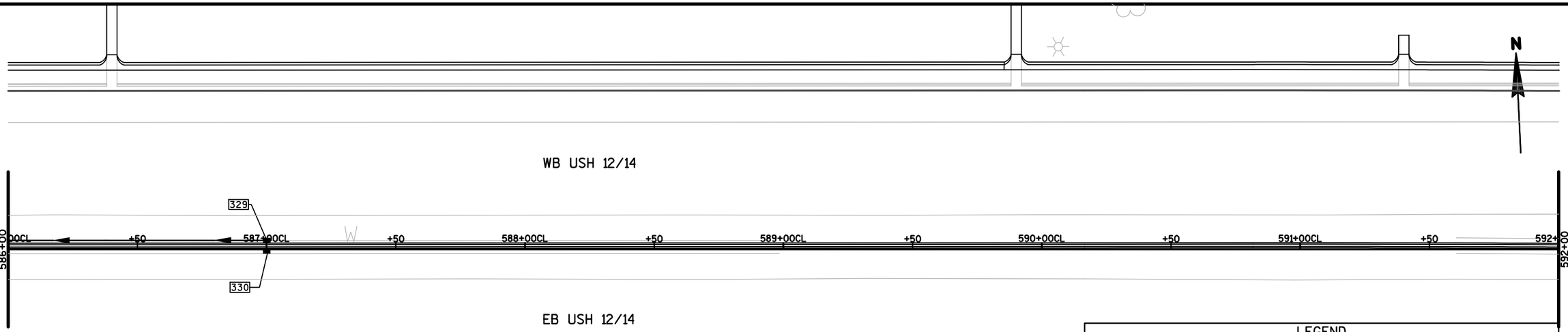


LEGEND

(A)	ADJUSTING INLET COVERS REQ'D.	(G)	REMOVING INLET COVERS REQ'D.
(B)	STORM SEWER TAP REQ'D.	(H)	REMOVING STORM SEWER 12-INCH REQ'D.
(C)	REMOVE VANE DRAIN REQ'D.	(I)	REMOVING STORM SEWER 15-INCH REQ'D.
(D)	CULVERT PIPE CONCRETE COLLARS REQ'D.	(J)	REMOVING STORM SEWER 18-INCH REQ'D.
(E)	ADJUSTING MANHOLE COVERS REQ'D.	(K)	REMOVING STORM SEWER 24-INCH REQ'D.
(F)	REMOVING INLETS REQ'D.	//////	REMOVING STORM SEWER.

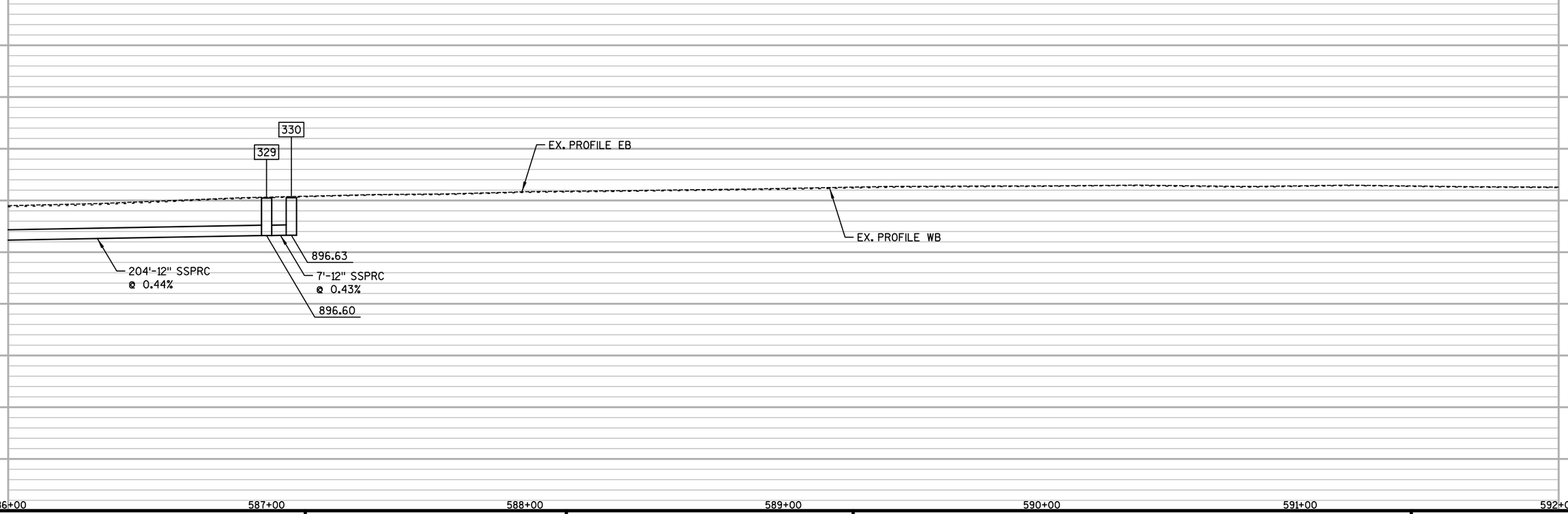
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2



LEGEND

(A) ADJUSTING INLET COVERS REQ'D.	(G) REMOVING INLET COVERS REQ'D.
(B) STORM SEWER TAP REQ'D.	(H) REMOVING STORM SEWER 12-INCH REQ'D.
(C) REMOVE VANE DRAIN REQ'D.	(I) REMOVING STORM SEWER 15-INCH REQ'D.
(D) CULVERT PIPE CONCRETE COLLARS REQ'D.	(J) REMOVING STORM SEWER 18-INCH REQ'D.
(E) ADJUSTING MANHOLE COVERS REQ'D.	(K) REMOVING STORM SEWER 24-INCH REQ'D.
(F) REMOVING INLETS REQ'D.	////// REMOVING STORM SEWER.



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2

2

INL

SIGN I

N

WB USH 12/14

592+00 | 00CL | +50 | 593+00CL | +50 | 594+00CL | +50 | 595+00CL | +50 | 596+00CL | +50 | 597+00CL | +50 | 598+00

598+00

EB USH 12/14

LEGEND

A	ADJUSTING INLET COVERS REQ'D.	G	REMOVING INLET COVERS REQ'D.
B	STORM SEWER TAP REQ'D.	H	REMOVING STORM SEWER 12-INCH REQ'D.
C	REMOVE VANE DRAIN REQ'D.	I	REMOVING STORM SEWER 15-INCH REQ'D.
D	CULVERT PIPE CONCRETE COLLARS REQ'D.	J	REMOVING STORM SEWER 18-INCH REQ'D.
E	ADJUSTING MANHOLE COVERS REQ'D.	K	REMOVING STORM SEWER 24-INCH REQ'D.
F	REMOVING INLETS REQ'D.	//////	REMOVING STORM SEWER.

F

432

431

INL

SIGN

SS

SS

SS

X

X

X

915

910

905

900

895

890

885

880

875

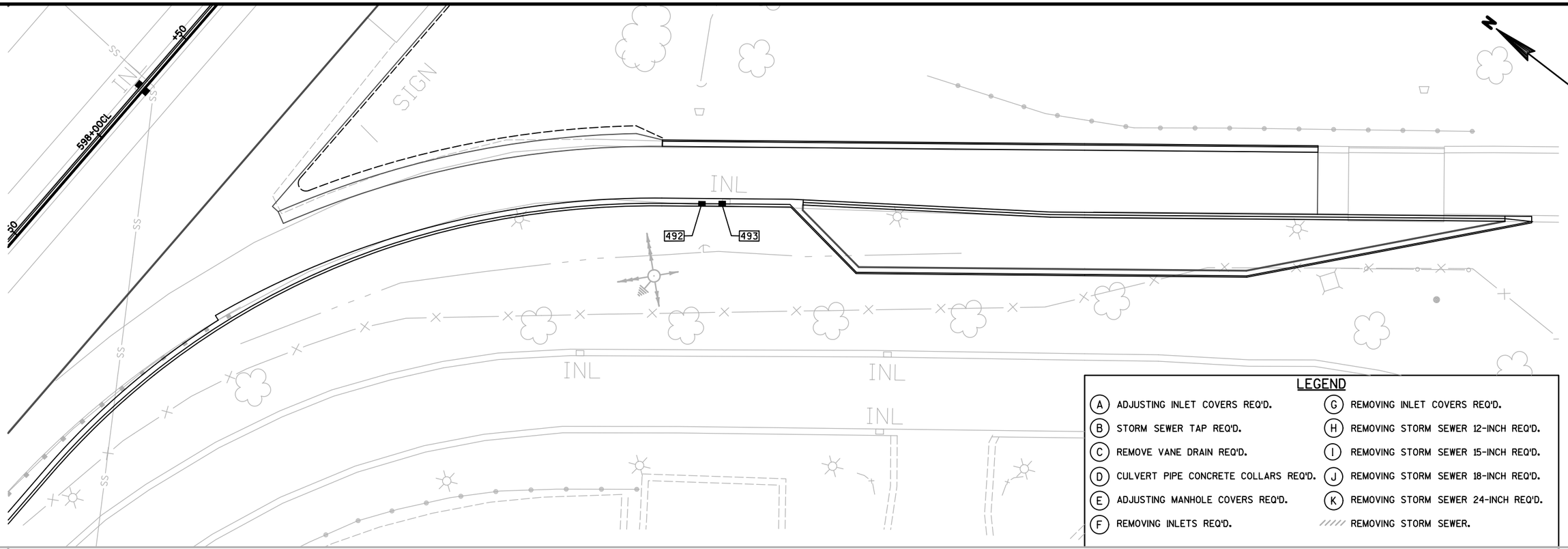
870

EX. PROFILE EB

EX. PROFILE WB

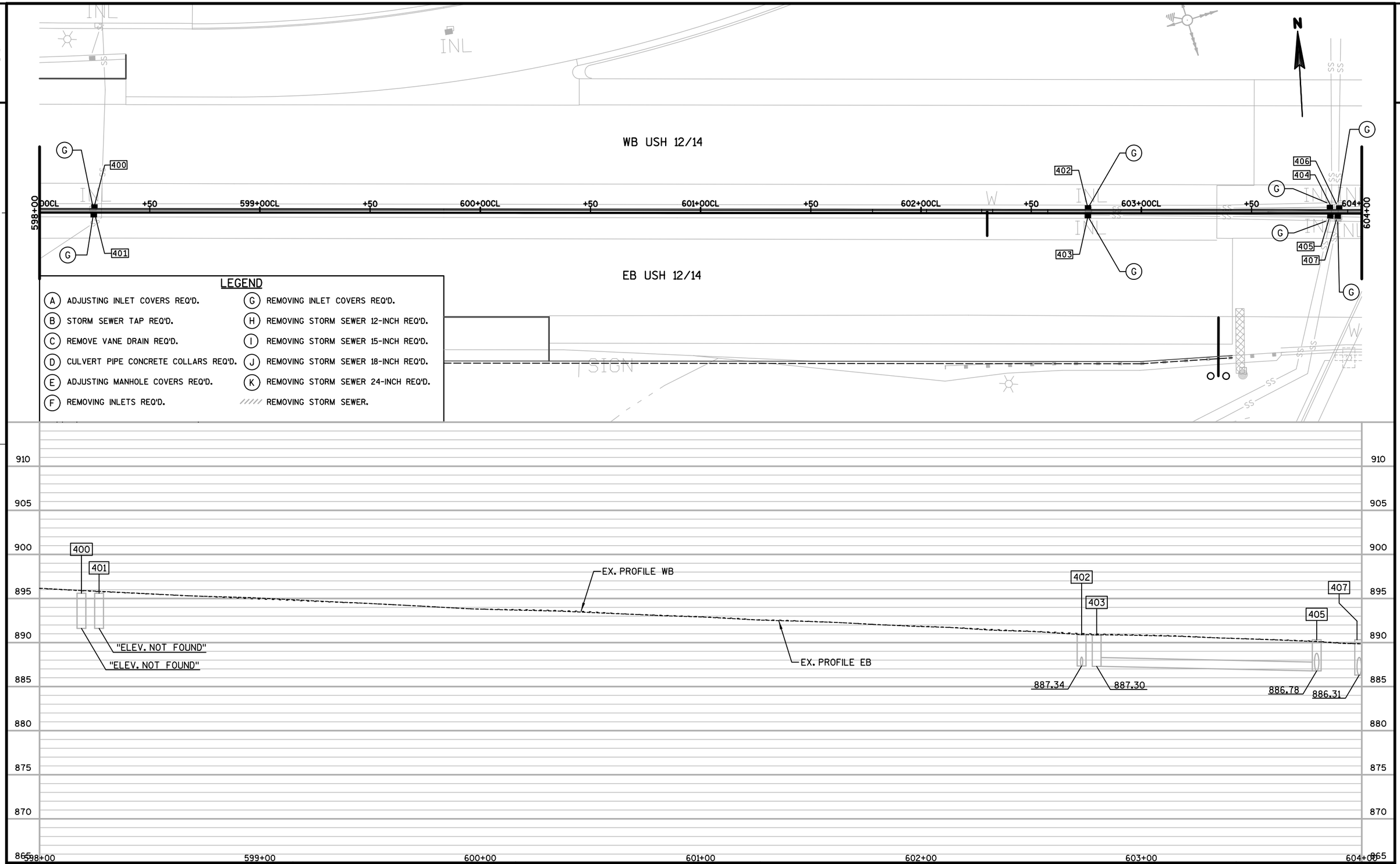
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E



2

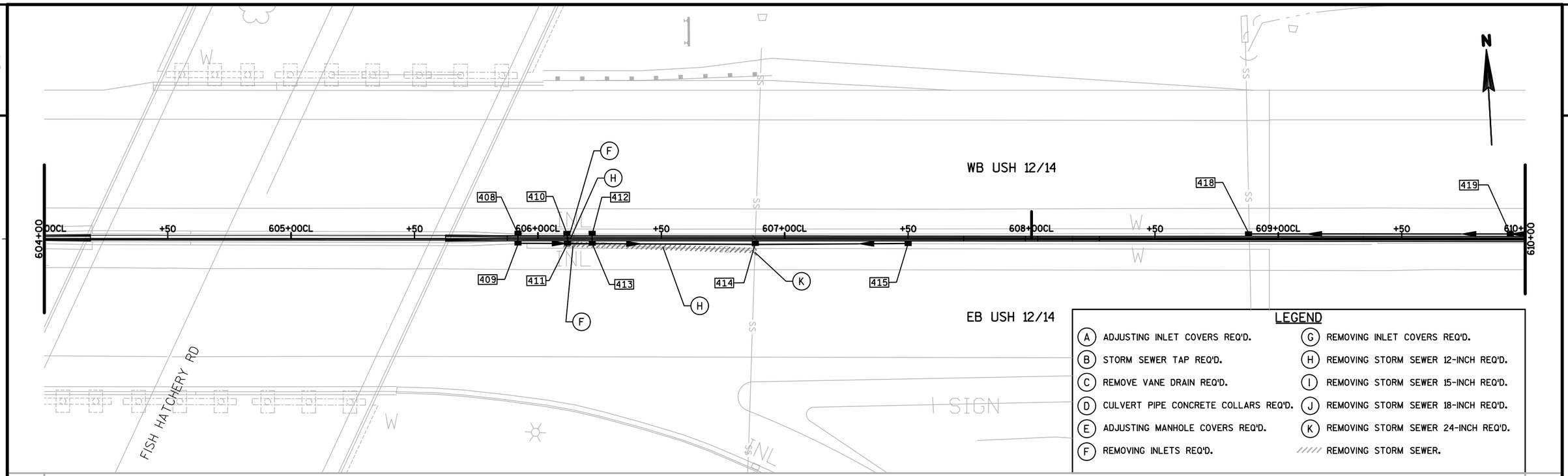
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

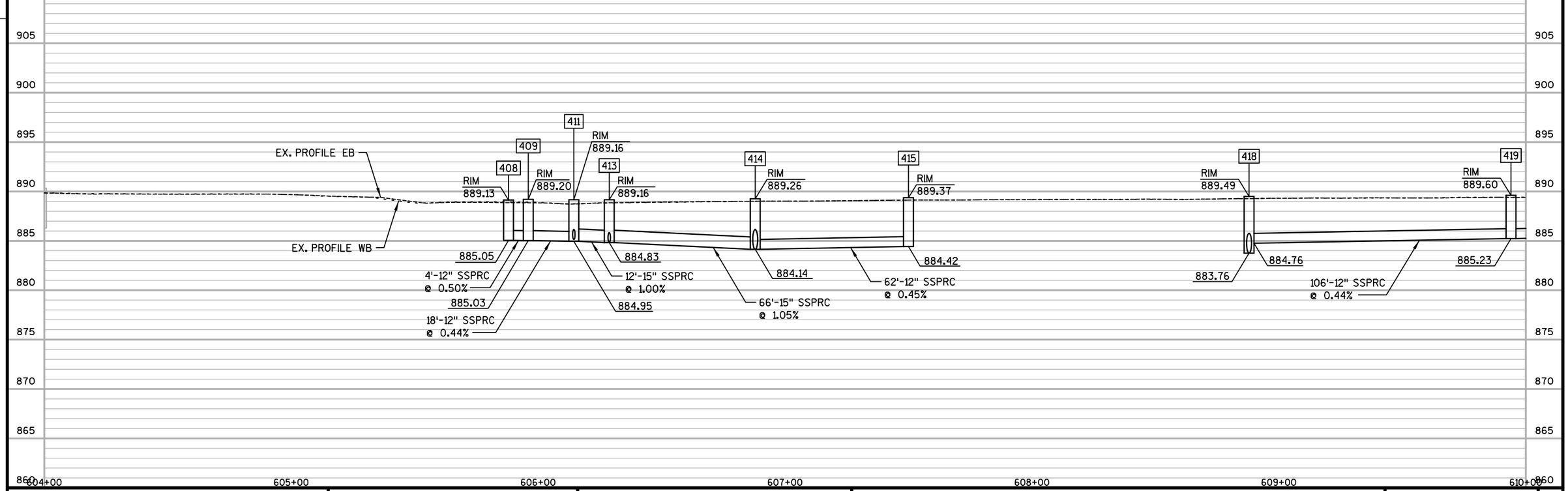


LEGEND

(A) ADJUSTING INLET COVERS REQ'D.	(G) REMOVING INLET COVERS REQ'D.
(B) STORM SEWER TAP REQ'D.	(H) REMOVING STORM SEWER 12-INCH REQ'D.
(C) REMOVE VANE DRAIN REQ'D.	(I) REMOVING STORM SEWER 15-INCH REQ'D.
(D) CULVERT PIPE CONCRETE COLLARS REQ'D.	(J) REMOVING STORM SEWER 18-INCH REQ'D.
(E) ADJUSTING MANHOLE COVERS REQ'D.	(K) REMOVING STORM SEWER 24-INCH REQ'D.
(F) REMOVING INLETS REQ'D.	////// REMOVING STORM SEWER.

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

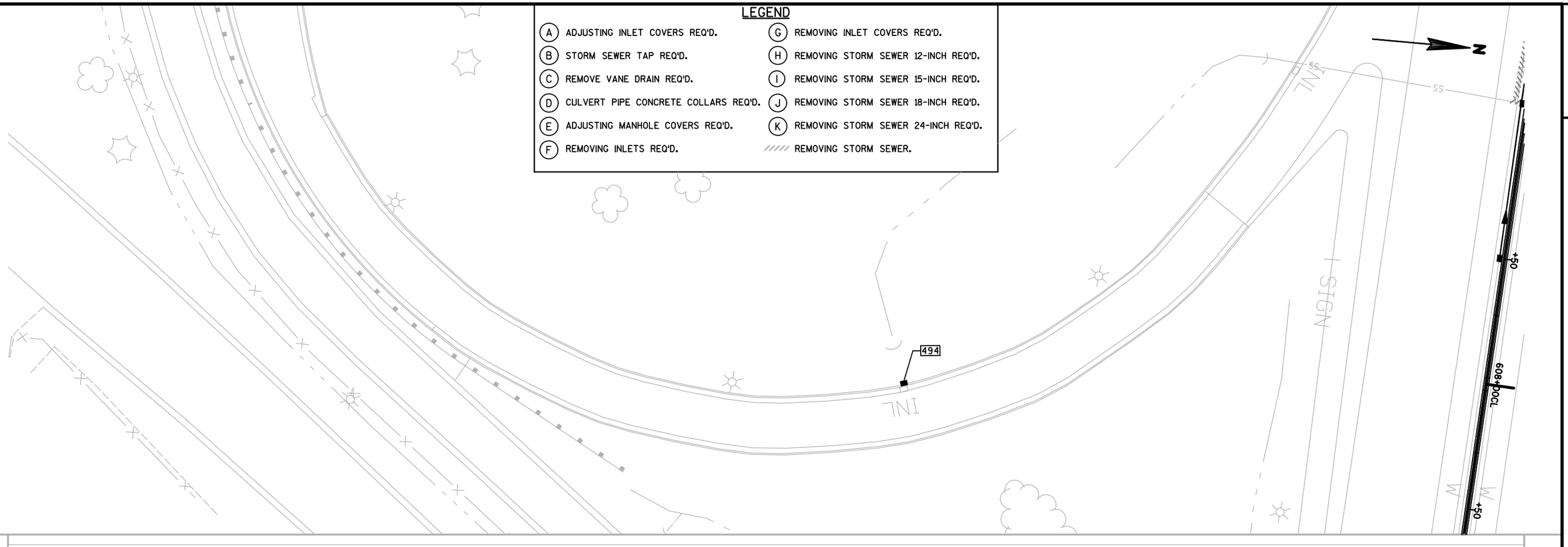




PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

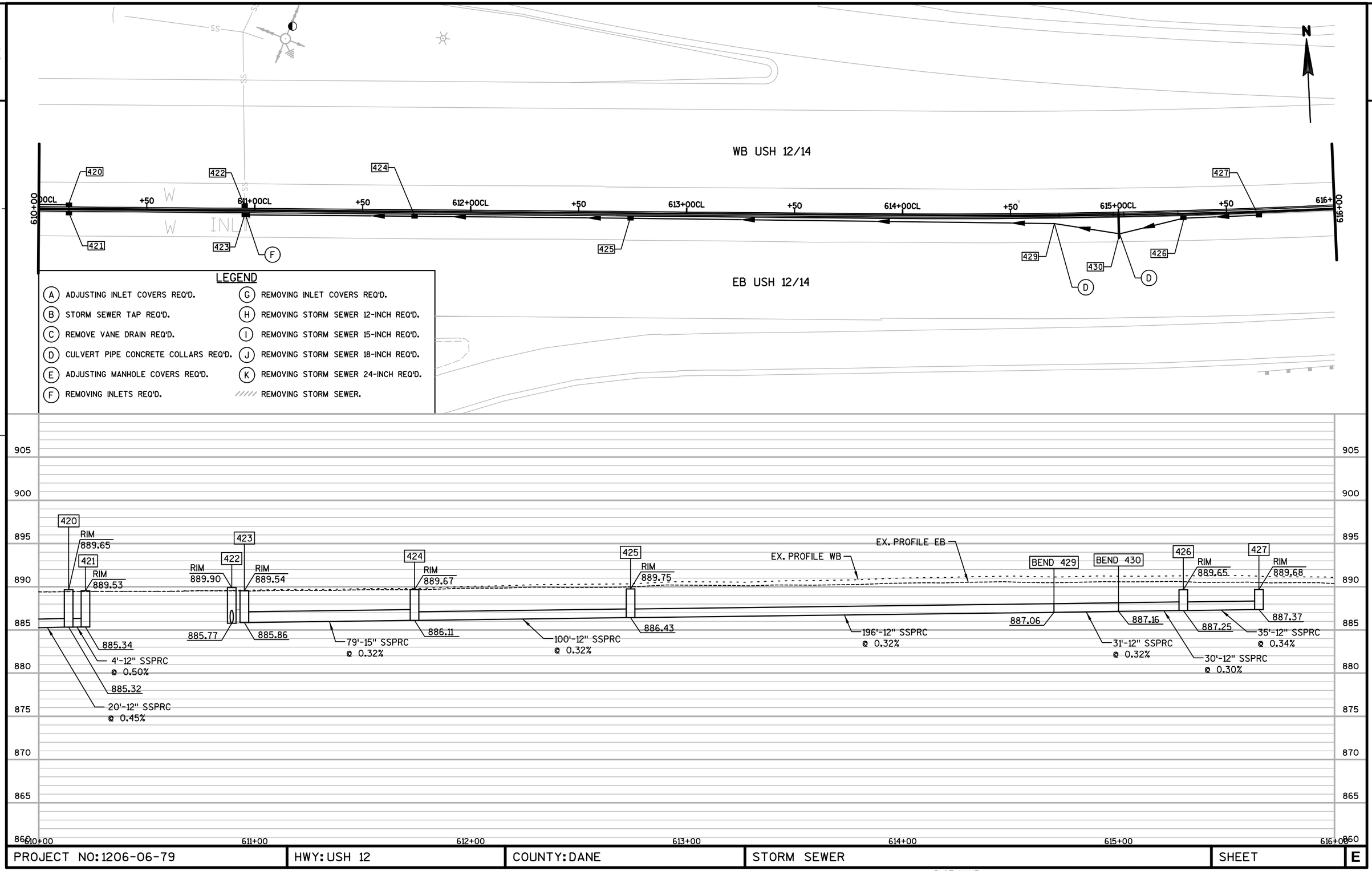
LEGEND

- (A) ADJUSTING INLET COVERS REQ'D.
- (B) STORM SEWER TAP REQ'D.
- (C) REMOVE VANE DRAIN REQ'D.
- (D) CULVERT PIPE CONCRETE COLLARS REQ'D.
- (E) ADJUSTING MANHOLE COVERS REQ'D.
- (F) REMOVING INLETS REQ'D.
- (G) REMOVING INLET COVERS REQ'D.
- (H) REMOVING STORM SEWER 12-INCH REQ'D.
- (I) REMOVING STORM SEWER 15-INCH REQ'D.
- (J) REMOVING STORM SEWER 18-INCH REQ'D.
- (K) REMOVING STORM SEWER 24-INCH REQ'D.
- ////// REMOVING STORM SEWER.



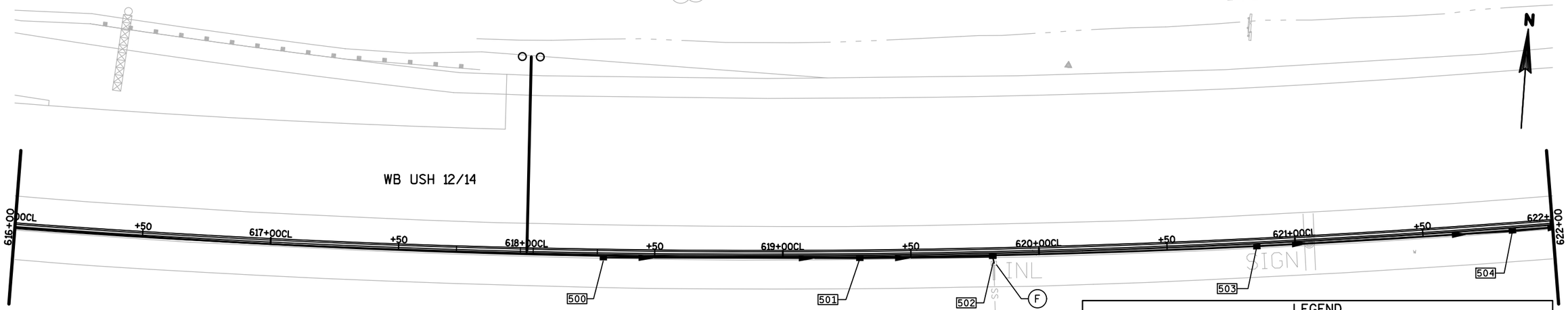
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E



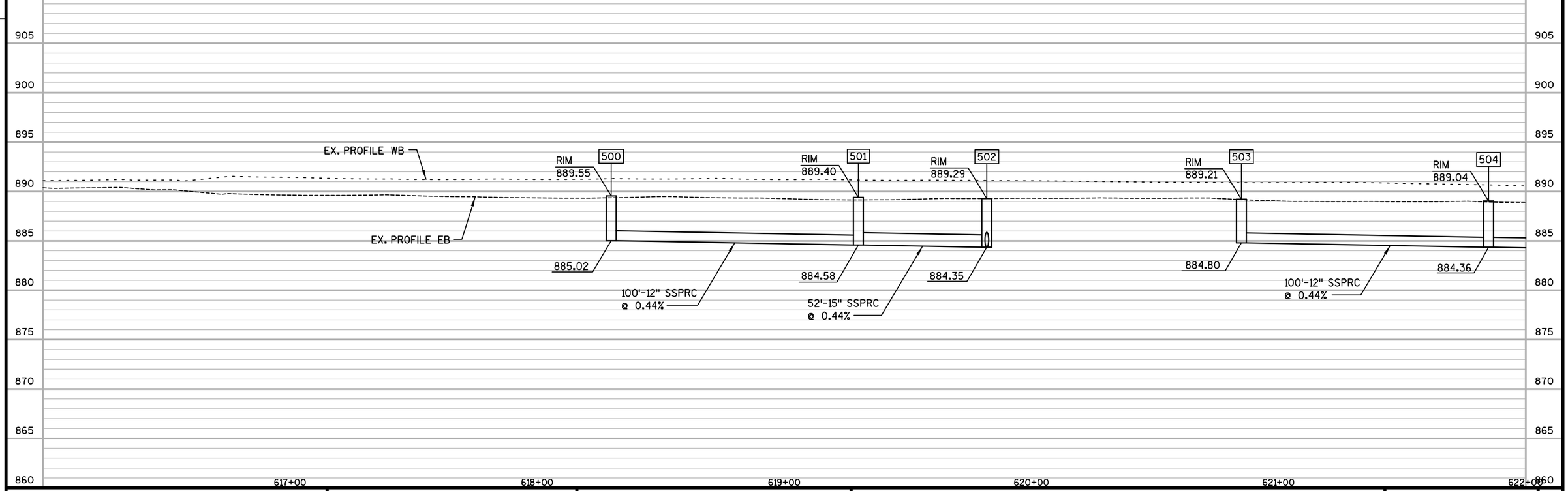
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2

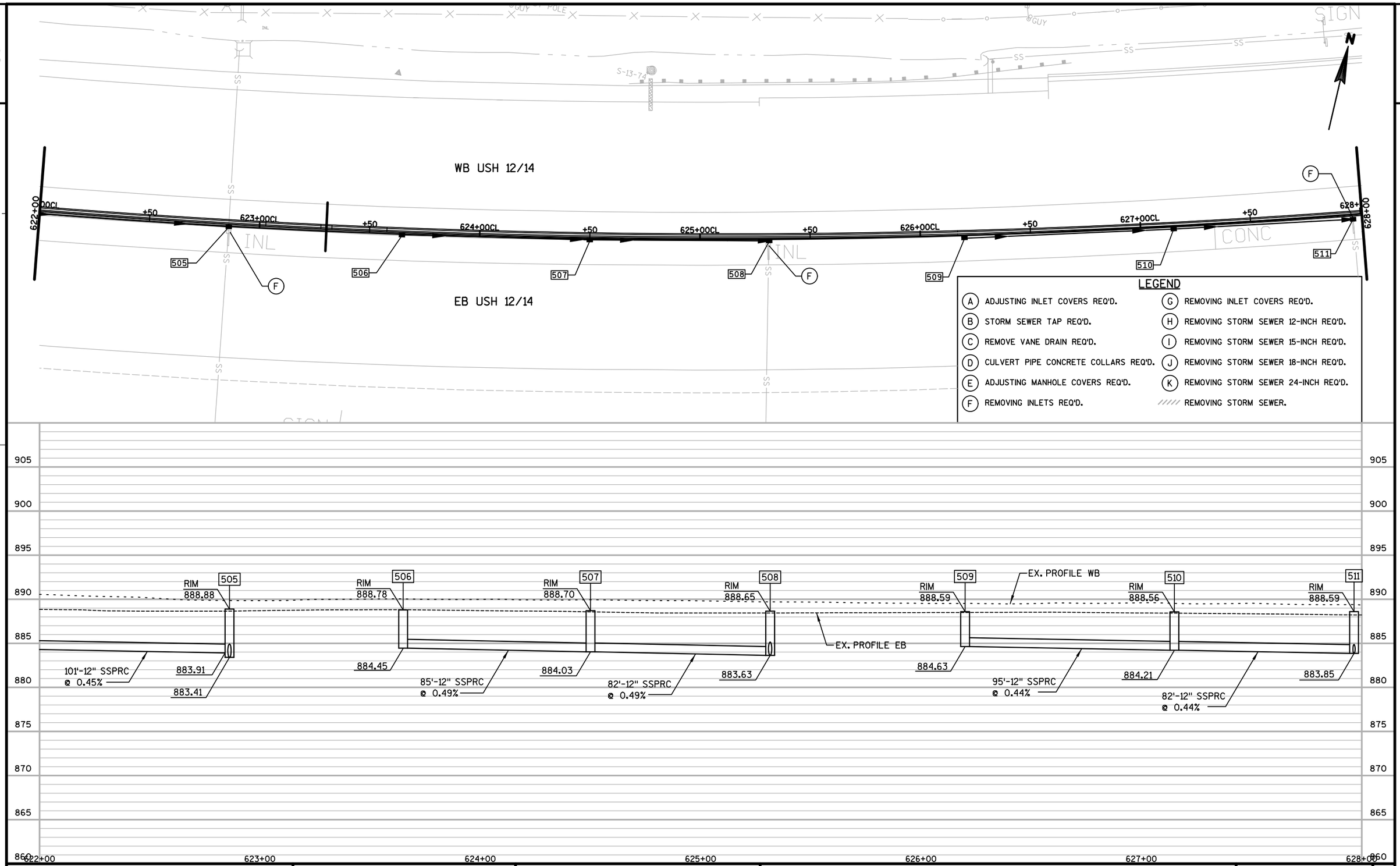


LEGEND

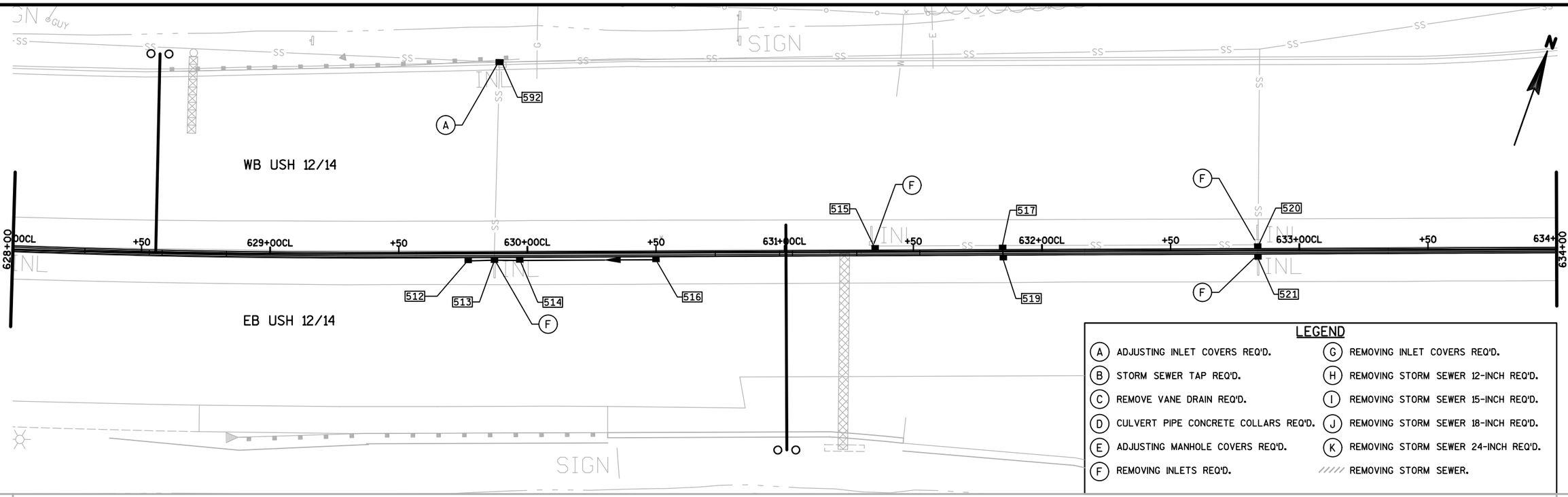
- (A) ADJUSTING INLET COVERS REQ'D.
- (B) STORM SEWER TAP REQ'D.
- (C) REMOVE VANE DRAIN REQ'D.
- (D) CULVERT PIPE CONCRETE COLLARS REQ'D.
- (E) ADJUSTING MANHOLE COVERS REQ'D.
- (F) REMOVING INLETS REQ'D.
- (G) REMOVING INLET COVERS REQ'D.
- (H) REMOVING STORM SEWER 12-INCH REQ'D.
- (I) REMOVING STORM SEWER 15-INCH REQ'D.
- (J) REMOVING STORM SEWER 18-INCH REQ'D.
- (K) REMOVING STORM SEWER 24-INCH REQ'D.
- ////// REMOVING STORM SEWER.



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E



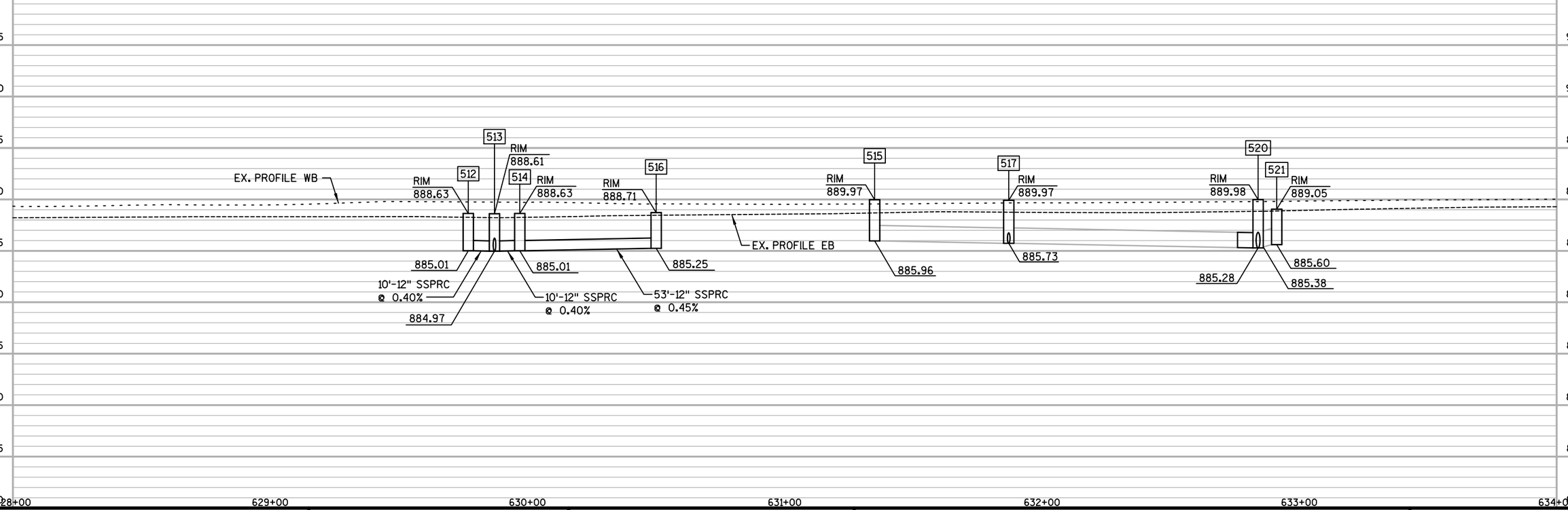
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E



2

LEGEND

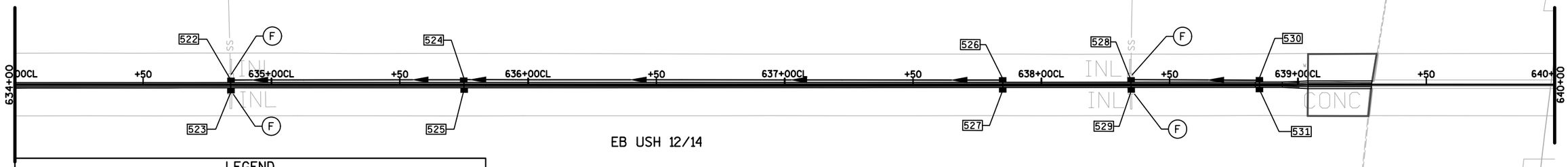
(A) ADJUSTING INLET COVERS REQ'D.	(G) REMOVING INLET COVERS REQ'D.
(B) STORM SEWER TAP REQ'D.	(H) REMOVING STORM SEWER 12-INCH REQ'D.
(C) REMOVE VANE DRAIN REQ'D.	(I) REMOVING STORM SEWER 15-INCH REQ'D.
(D) CULVERT PIPE CONCRETE COLLARS REQ'D.	(J) REMOVING STORM SEWER 18-INCH REQ'D.
(E) ADJUSTING MANHOLE COVERS REQ'D.	(K) REMOVING STORM SEWER 24-INCH REQ'D.
(F) REMOVING INLETS REQ'D.	////// REMOVING STORM SEWER.



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

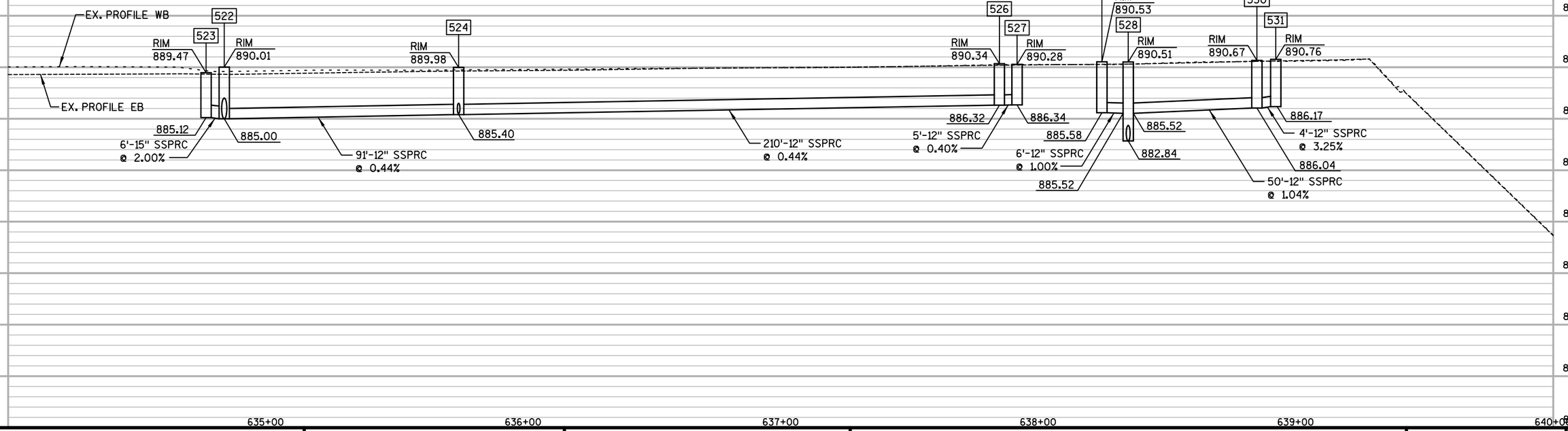
WB USH 12/14

EB USH 12/14

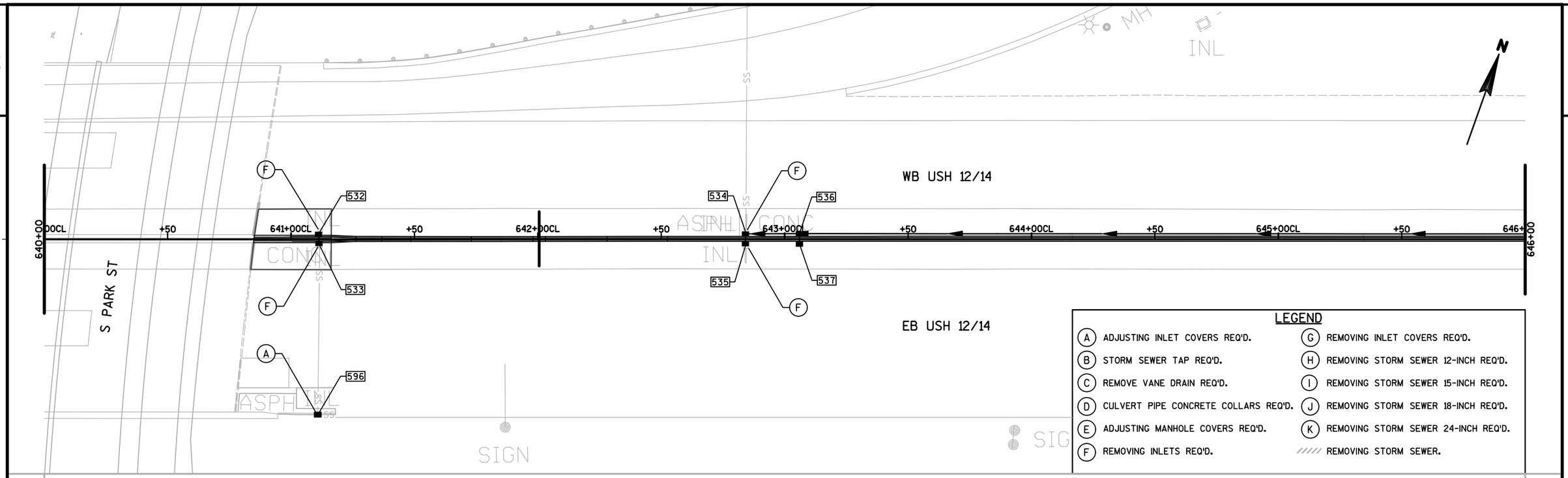


LEGEND

(A) ADJUSTING INLET COVERS REQ'D.	(G) REMOVING INLET COVERS REQ'D.
(B) STORM SEWER TAP REQ'D.	(H) REMOVING STORM SEWER 12-INCH REQ'D.
(C) REMOVE VANE DRAIN REQ'D.	(I) REMOVING STORM SEWER 15-INCH REQ'D.
(D) CULVERT PIPE CONCRETE COLLARS REQ'D.	(J) REMOVING STORM SEWER 18-INCH REQ'D.
(E) ADJUSTING MANHOLE COVERS REQ'D.	(K) REMOVING STORM SEWER 24-INCH REQ'D.
(F) REMOVING INLETS REQ'D.	///// REMOVING STORM SEWER.

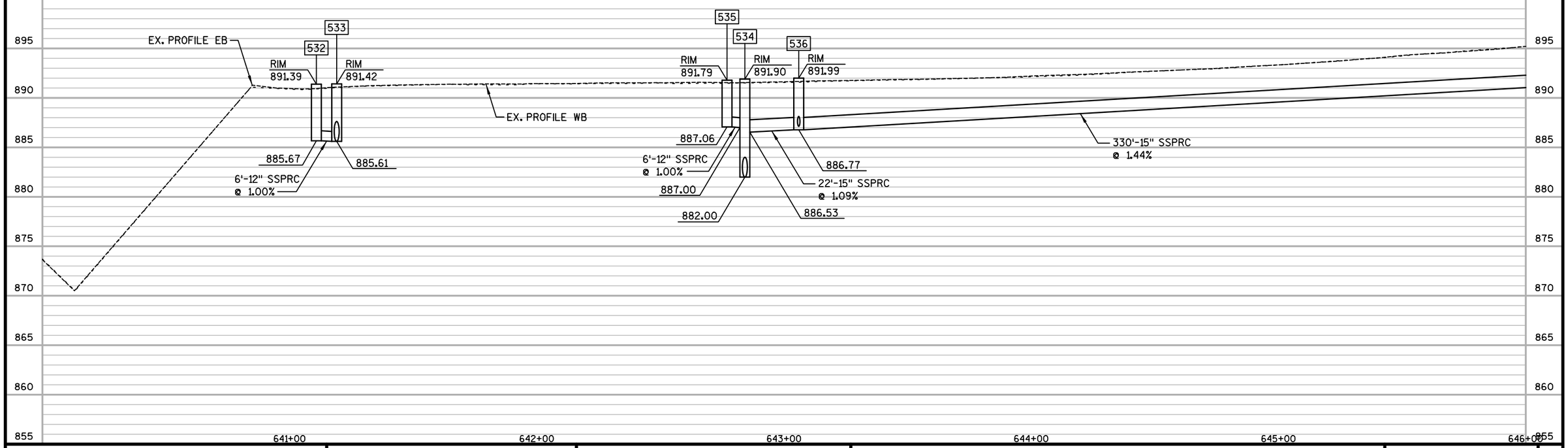


PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E



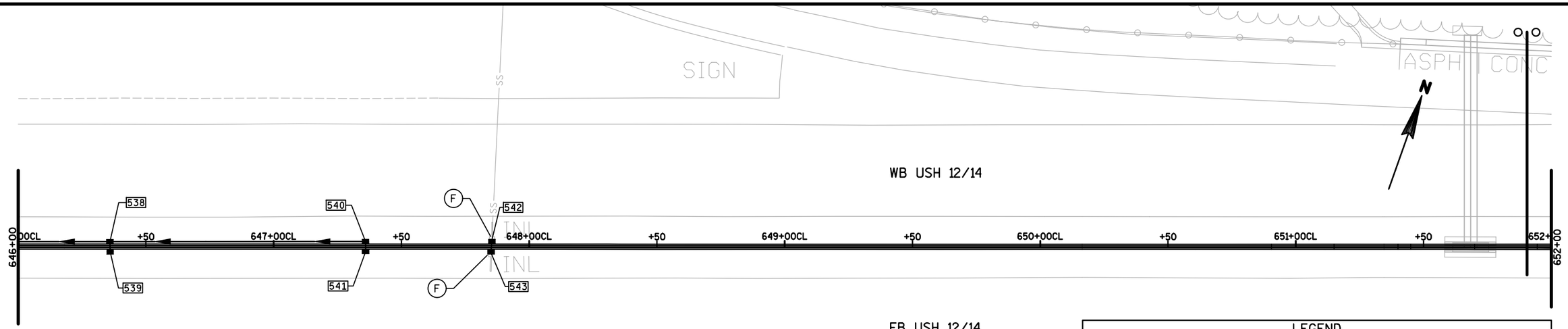
LEGEND

(A)	ADJUSTING INLET COVERS REQ'D.	(G)	REMOVING INLET COVERS REQ'D.
(B)	STORM SEWER TAP REQ'D.	(H)	REMOVING STORM SEWER 12-INCH REQ'D.
(C)	REMOVE VANE DRAIN REQ'D.	(I)	REMOVING STORM SEWER 15-INCH REQ'D.
(D)	CULVERT PIPE CONCRETE COLLARS REQ'D.	(J)	REMOVING STORM SEWER 18-INCH REQ'D.
(E)	ADJUSTING MANHOLE COVERS REQ'D.	(K)	REMOVING STORM SEWER 24-INCH REQ'D.
(F)	REMOVING INLETS REQ'D.	//////	REMOVING STORM SEWER.



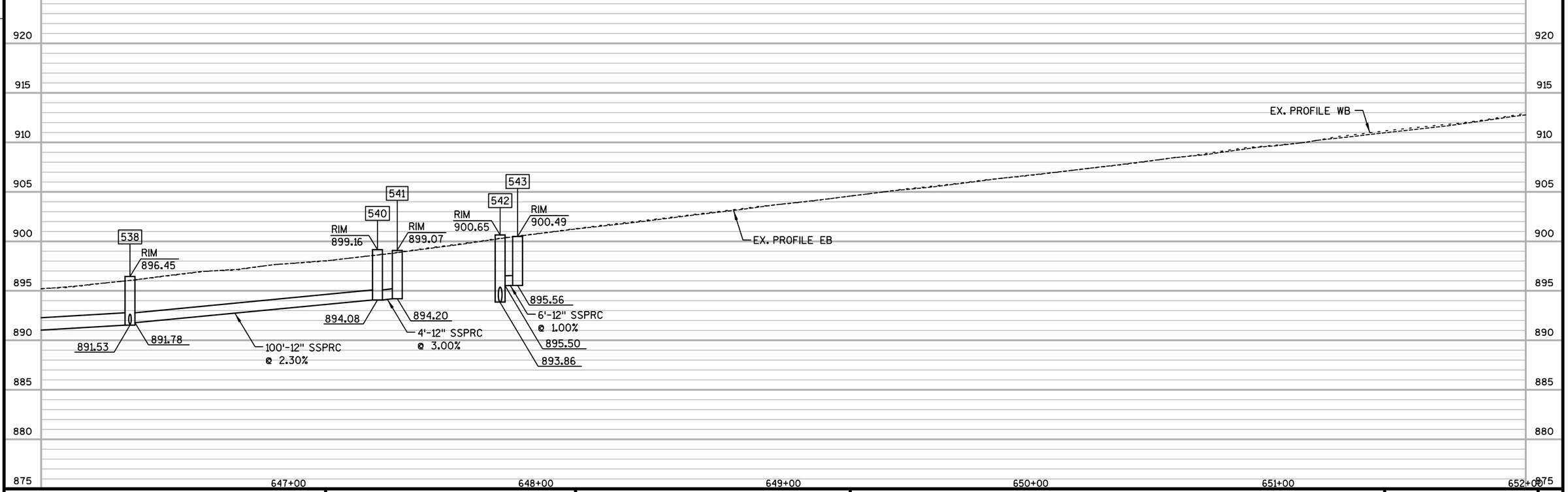
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2



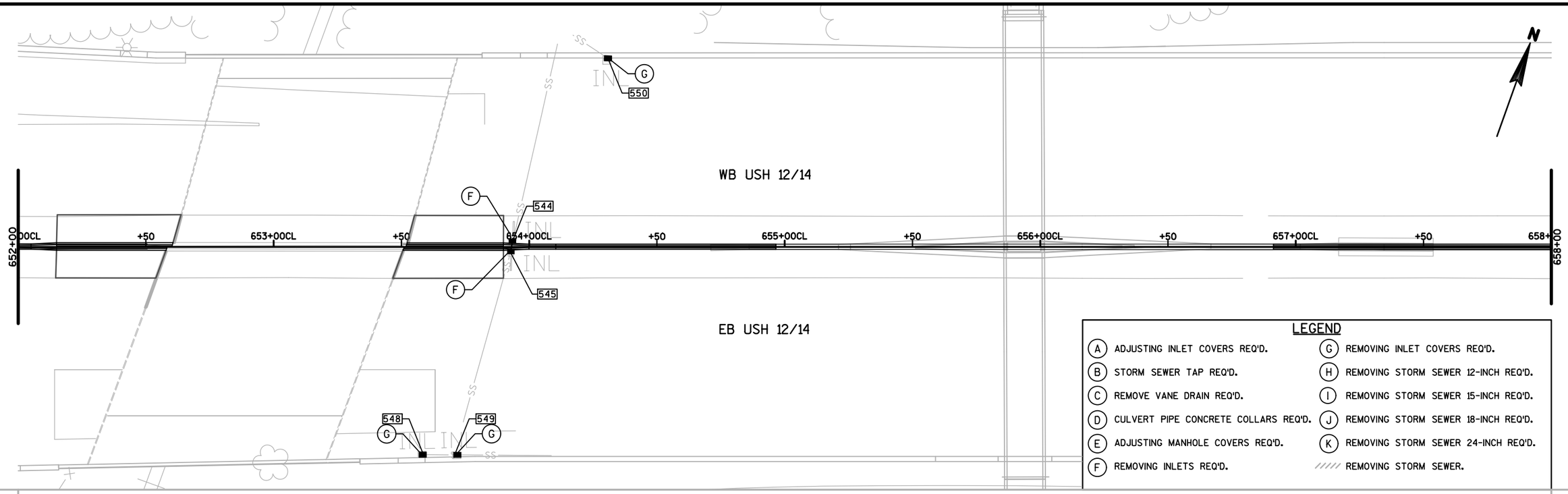
LEGEND

(A) ADJUSTING INLET COVERS REQ'D.	(G) REMOVING INLET COVERS REQ'D.
(B) STORM SEWER TAP REQ'D.	(H) REMOVING STORM SEWER 12-INCH REQ'D.
(C) REMOVE VANE DRAIN REQ'D.	(I) REMOVING STORM SEWER 15-INCH REQ'D.
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(E) ADJUSTING MANHOLE COVERS REQ'D.	(K) REMOVING STORM SEWER 24-INCH REQ'D.
(F) REMOVING INLETS REQ'D.	////// REMOVING STORM SEWER.



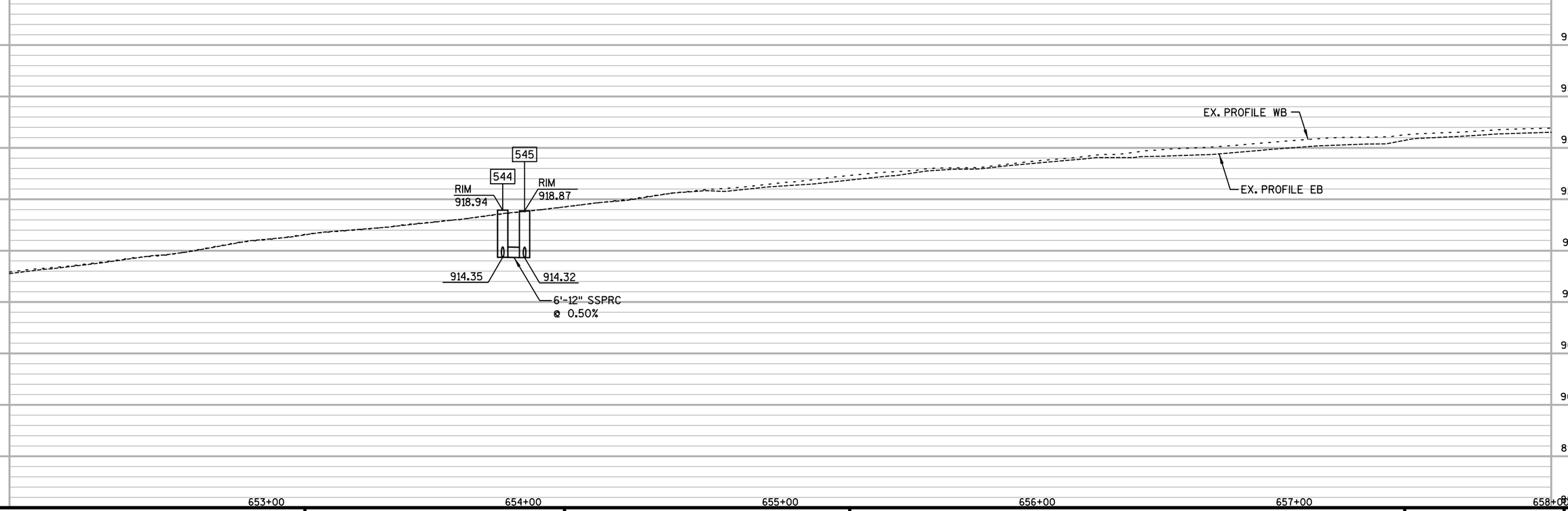
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2



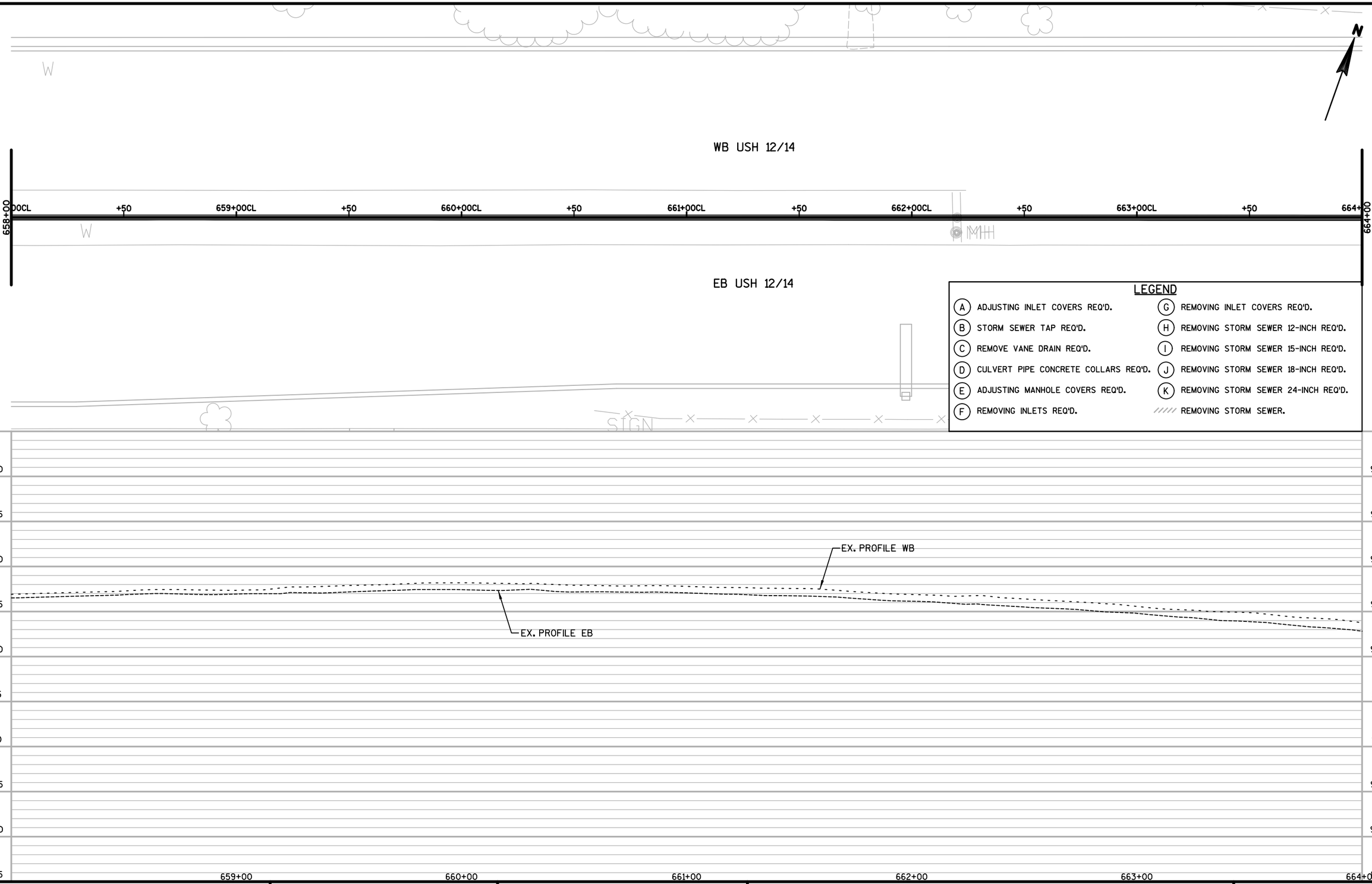
LEGEND

A	ADJUSTING INLET COVERS REQ'D.	G	REMOVING INLET COVERS REQ'D.
B	STORM SEWER TAP REQ'D.	H	REMOVING STORM SEWER 12-INCH REQ'D.
C	REMOVE VANE DRAIN REQ'D.	I	REMOVING STORM SEWER 15-INCH REQ'D.
D	CULVERT PIPE CONCRETE COLLARS REQ'D.	J	REMOVING STORM SEWER 18-INCH REQ'D.
E	ADJUSTING MANHOLE COVERS REQ'D.	K	REMOVING STORM SEWER 24-INCH REQ'D.
F	REMOVING INLETS REQ'D.	/////	REMOVING STORM SEWER.



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2

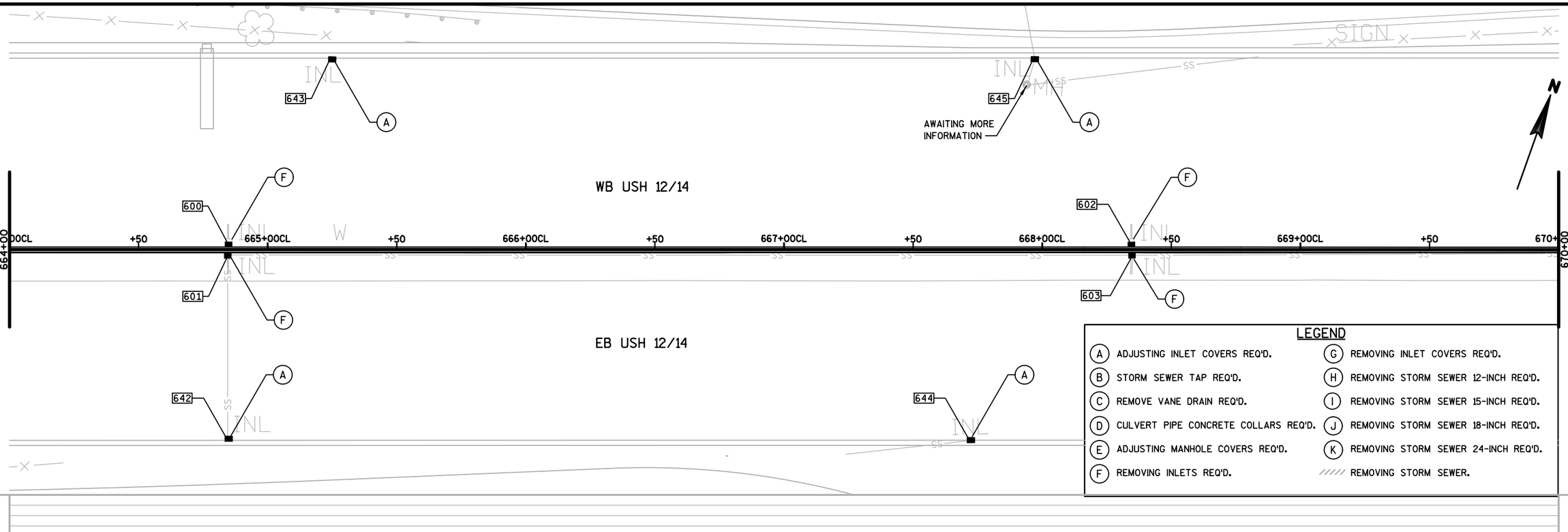


LEGEND

(A) ADJUSTING INLET COVERS REQ'D.	(G) REMOVING INLET COVERS REQ'D.
(B) STORM SEWER TAP REQ'D.	(H) REMOVING STORM SEWER 12-INCH REQ'D.
(C) REMOVE VANE DRAIN REQ'D.	(I) REMOVING STORM SEWER 15-INCH REQ'D.
(D) CULVERT PIPE CONCRETE COLLARS REQ'D.	(J) REMOVING STORM SEWER 18-INCH REQ'D.
(E) ADJUSTING MANHOLE COVERS REQ'D.	(K) REMOVING STORM SEWER 24-INCH REQ'D.
(F) REMOVING INLETS REQ'D.	////// REMOVING STORM SEWER.

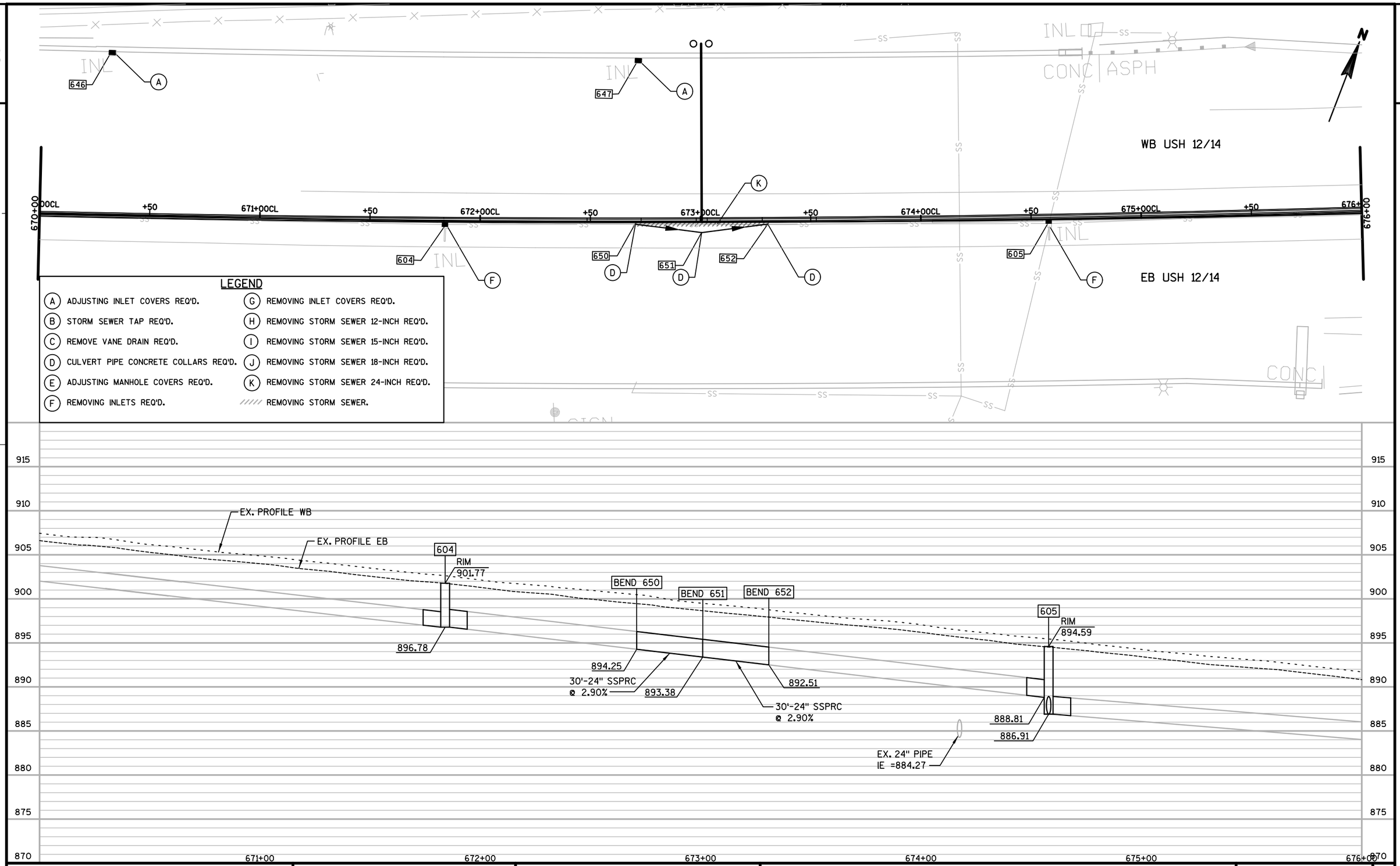
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2



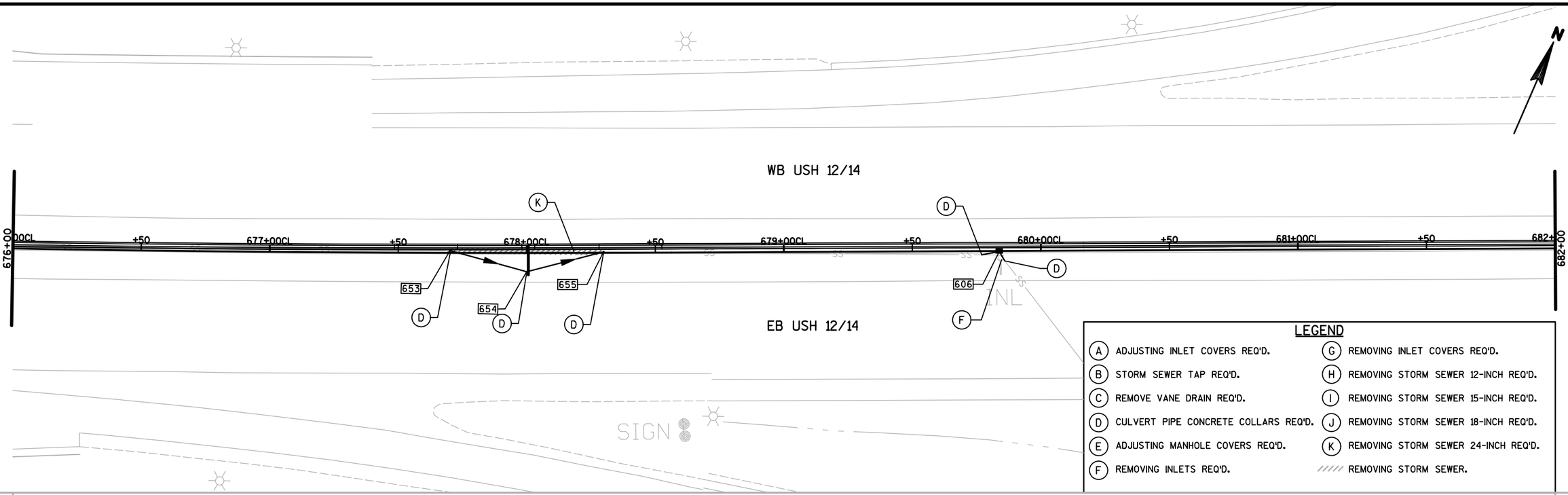
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

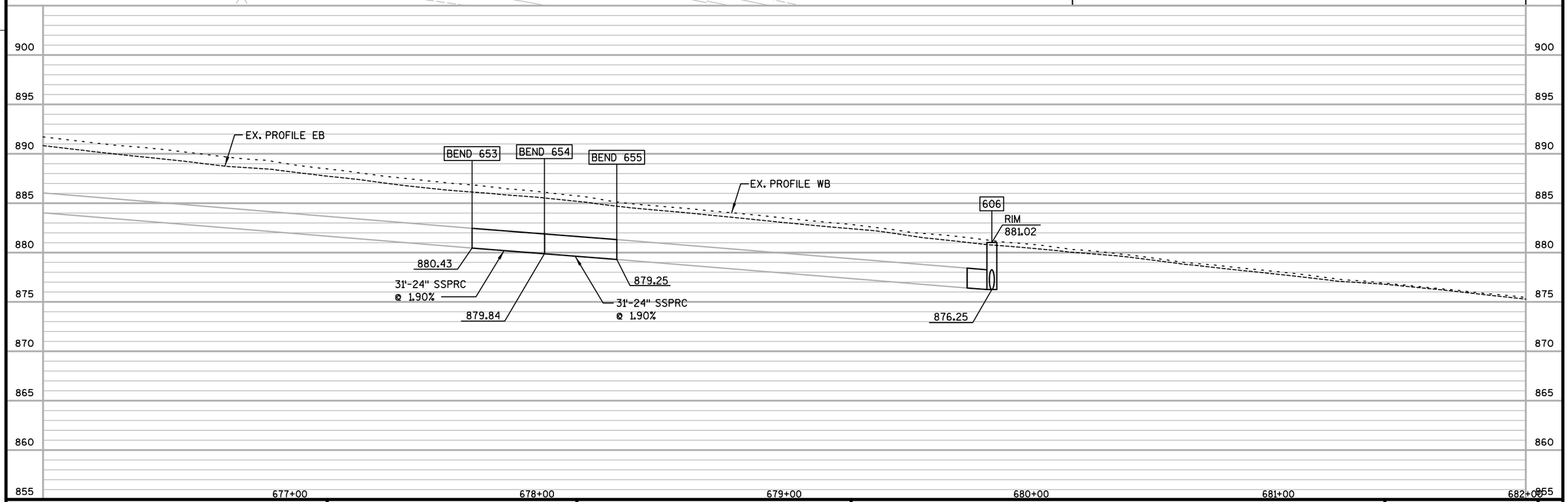
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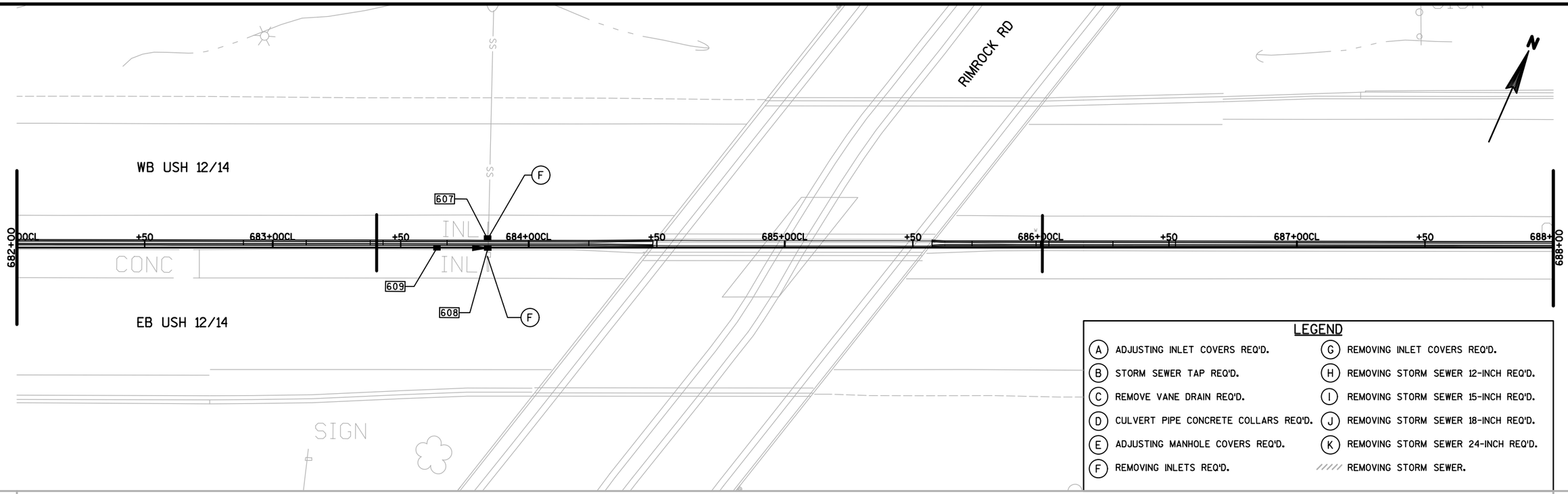
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

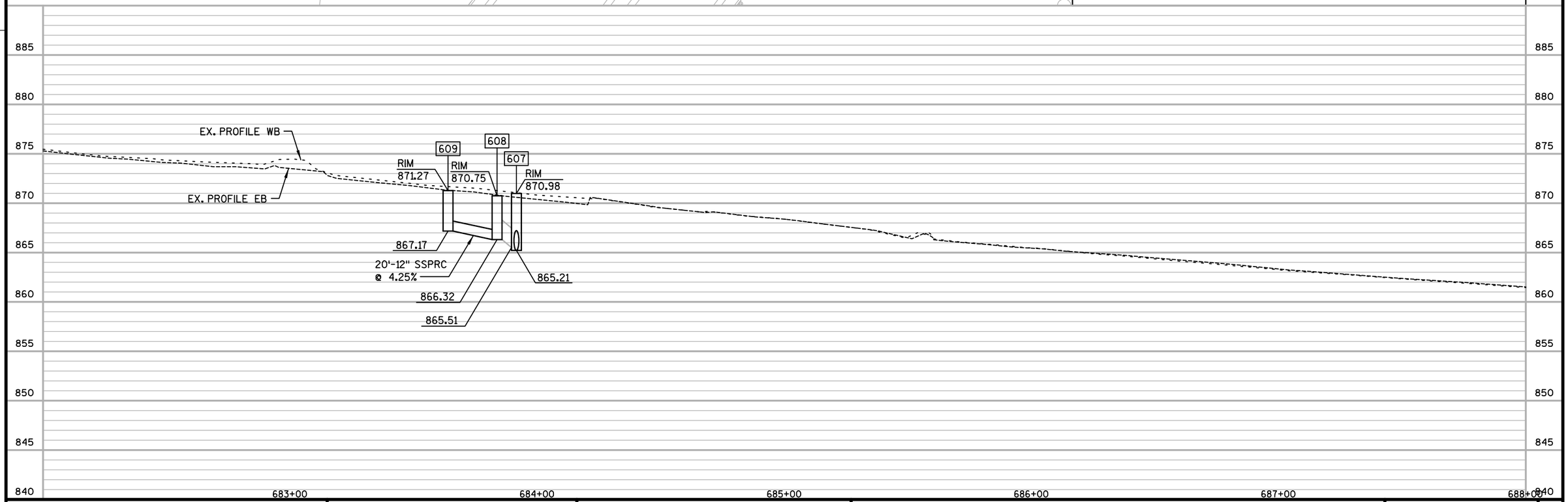
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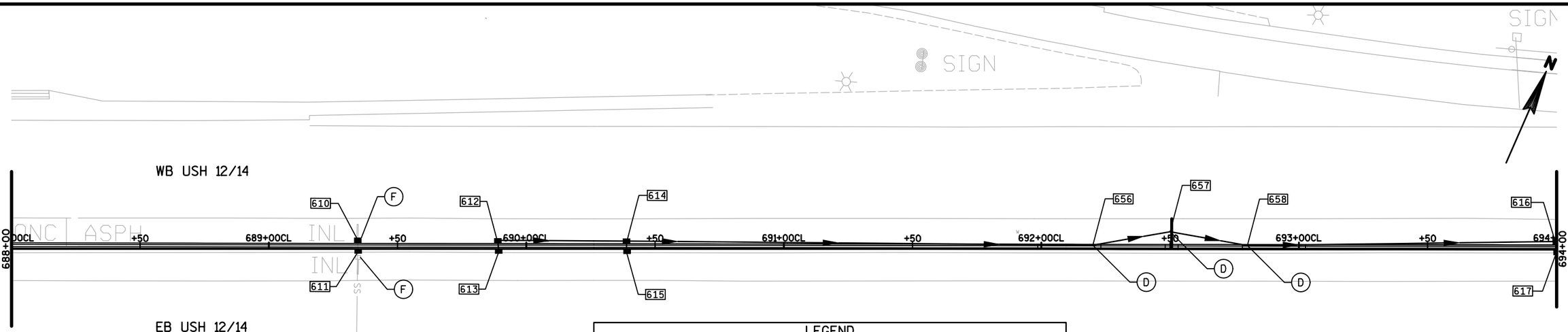
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E





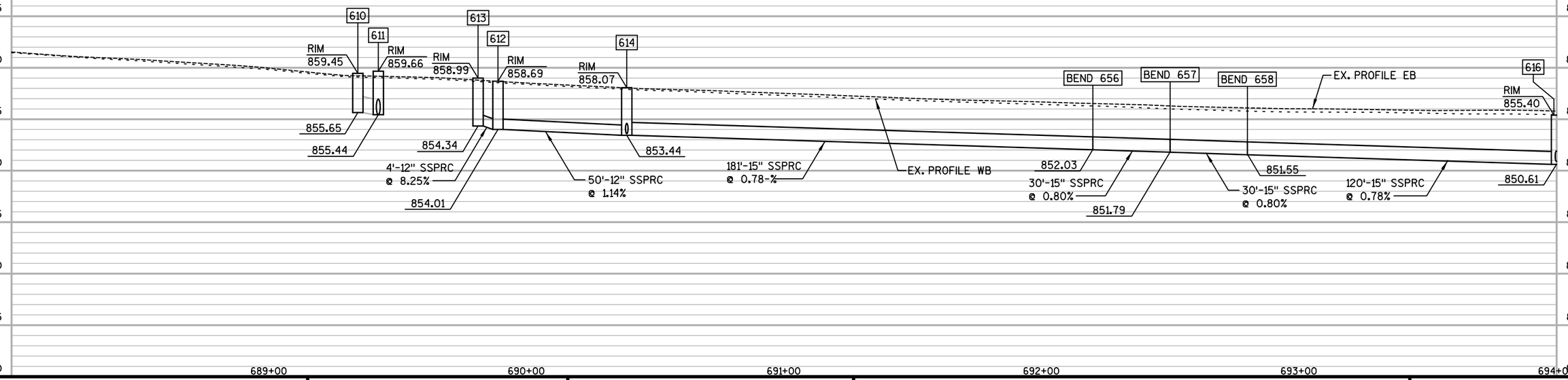
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2

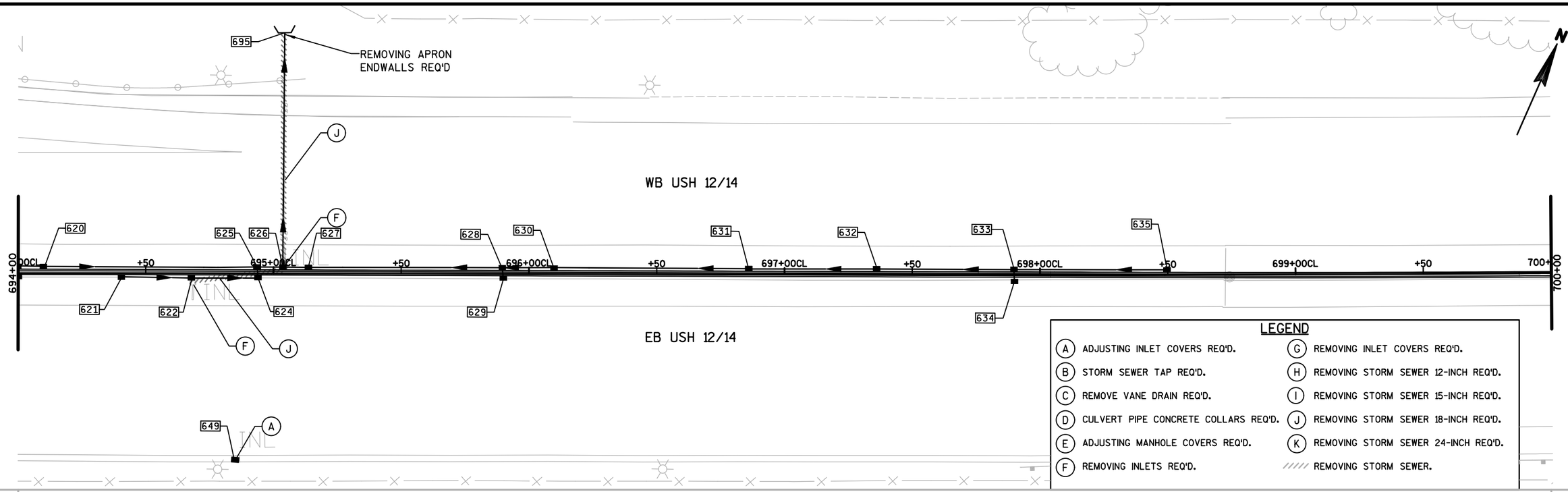


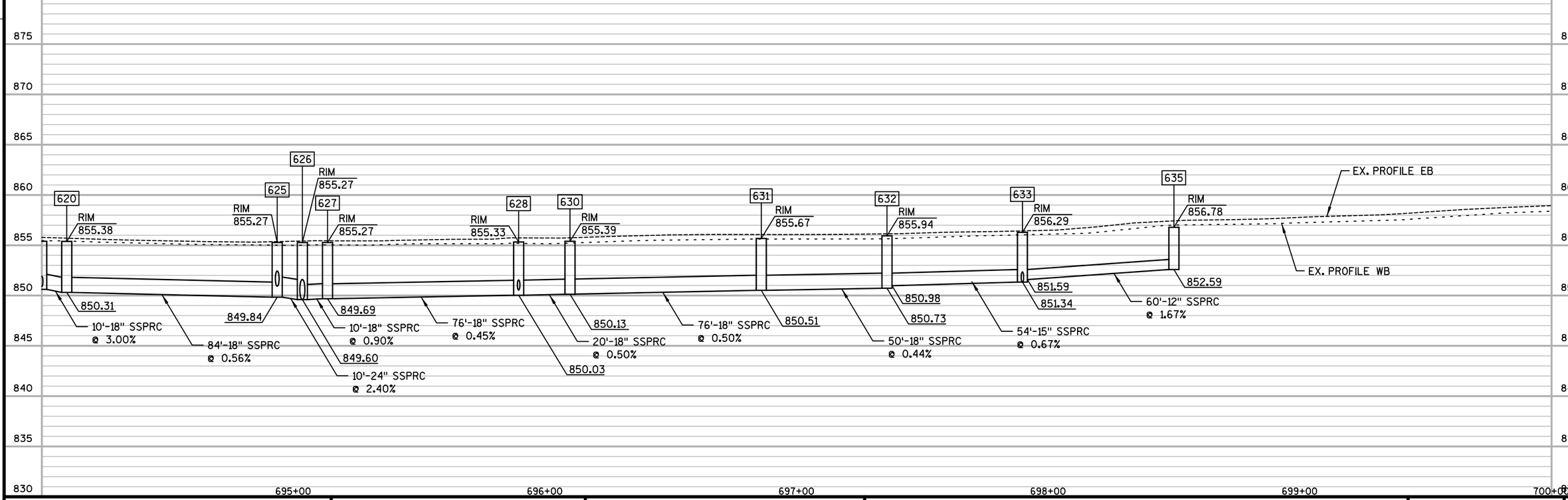
LEGEND

(A)	ADJUSTING INLET COVERS REQ'D.	(G)	REMOVING INLET COVERS REQ'D.
(B)	STORM SEWER TAP REQ'D.	(H)	REMOVING STORM SEWER 12-INCH REQ'D.
(C)	REMOVE VANE DRAIN REQ'D.	(I)	REMOVING STORM SEWER 15-INCH REQ'D.
(D)	CULVERT PIPE CONCRETE COLLARS REQ'D.	(J)	REMOVING STORM SEWER 18-INCH REQ'D.
(E)	ADJUSTING MANHOLE COVERS REQ'D.	(K)	REMOVING STORM SEWER 24-INCH REQ'D.
(F)	REMOVING INLETS REQ'D.	//////	REMOVING STORM SEWER.

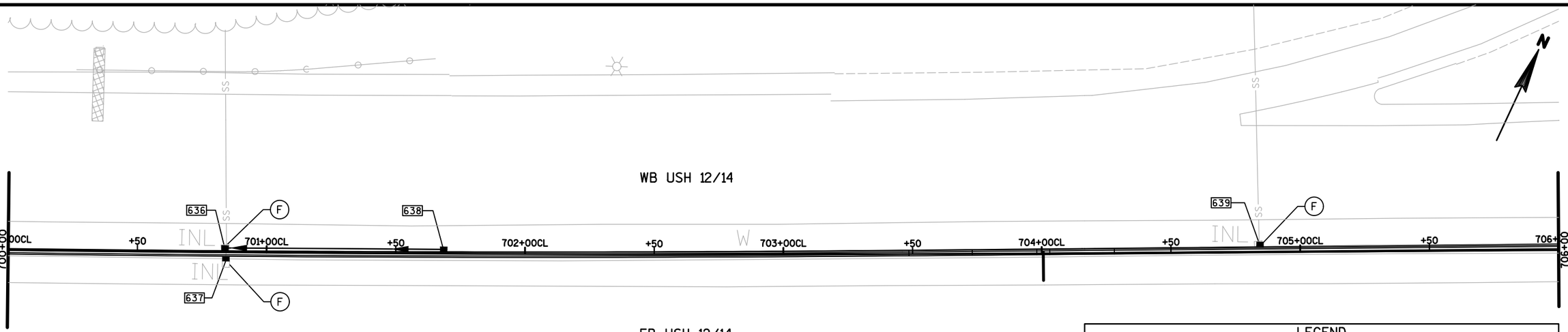


PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E



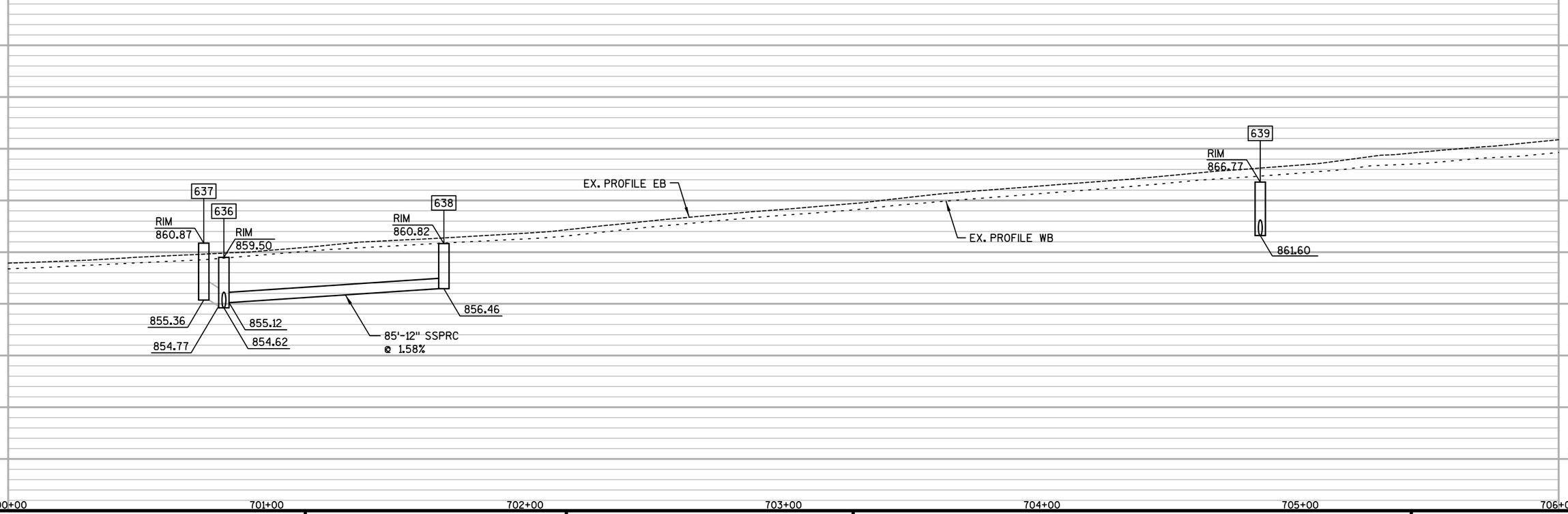


PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E



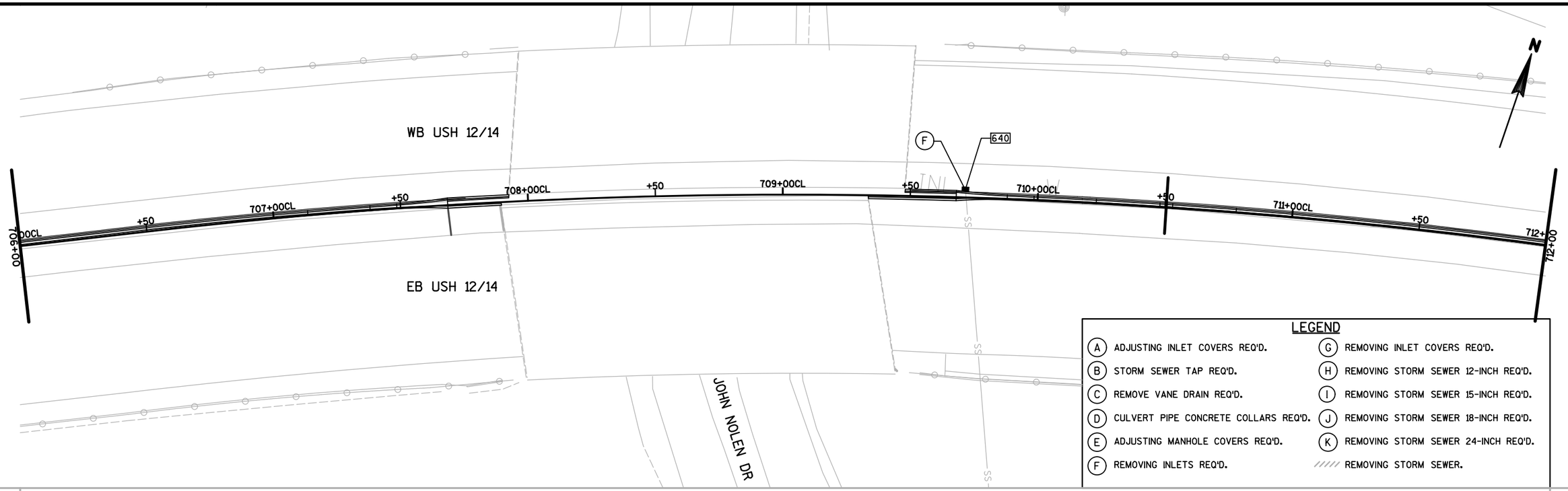
LEGEND

(A) ADJUSTING INLET COVERS REQ'D.	(G) REMOVING INLET COVERS REQ'D.
(B) STORM SEWER TAP REQ'D.	(H) REMOVING STORM SEWER 12-INCH REQ'D.
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(F) REMOVING INLETS REQ'D.	////// REMOVING STORM SEWER.



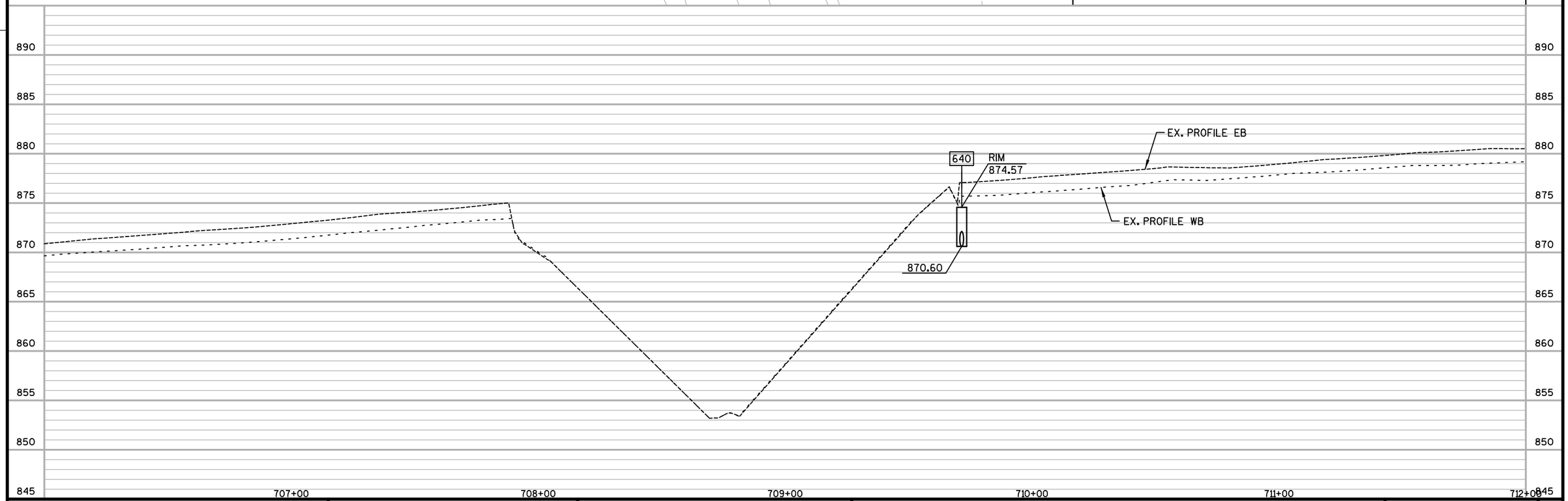
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2



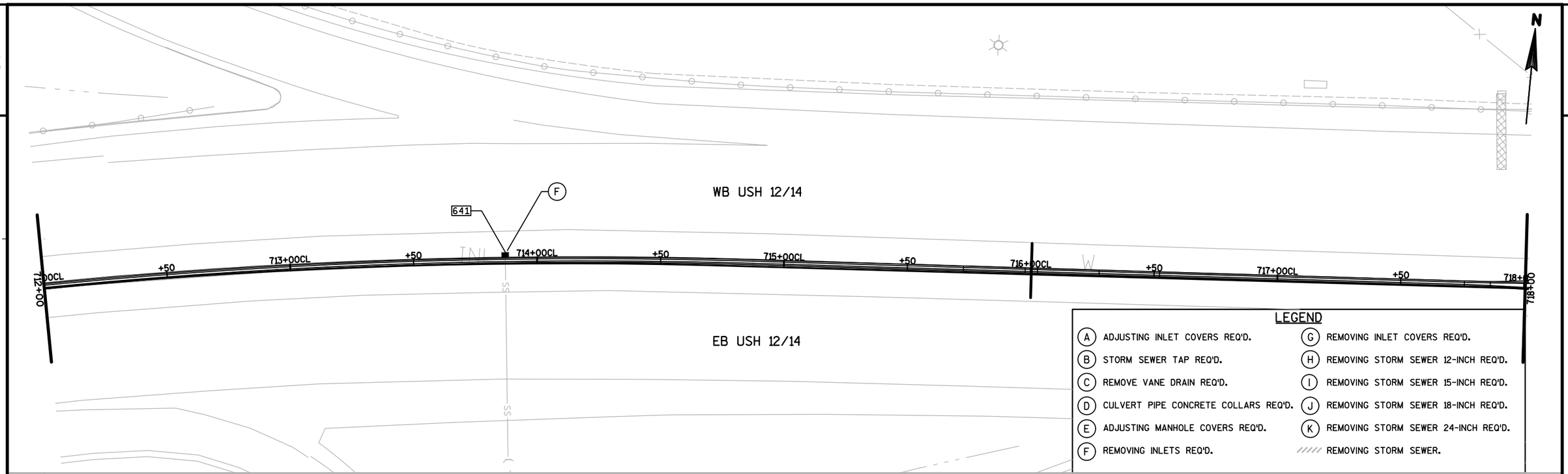
LEGEND

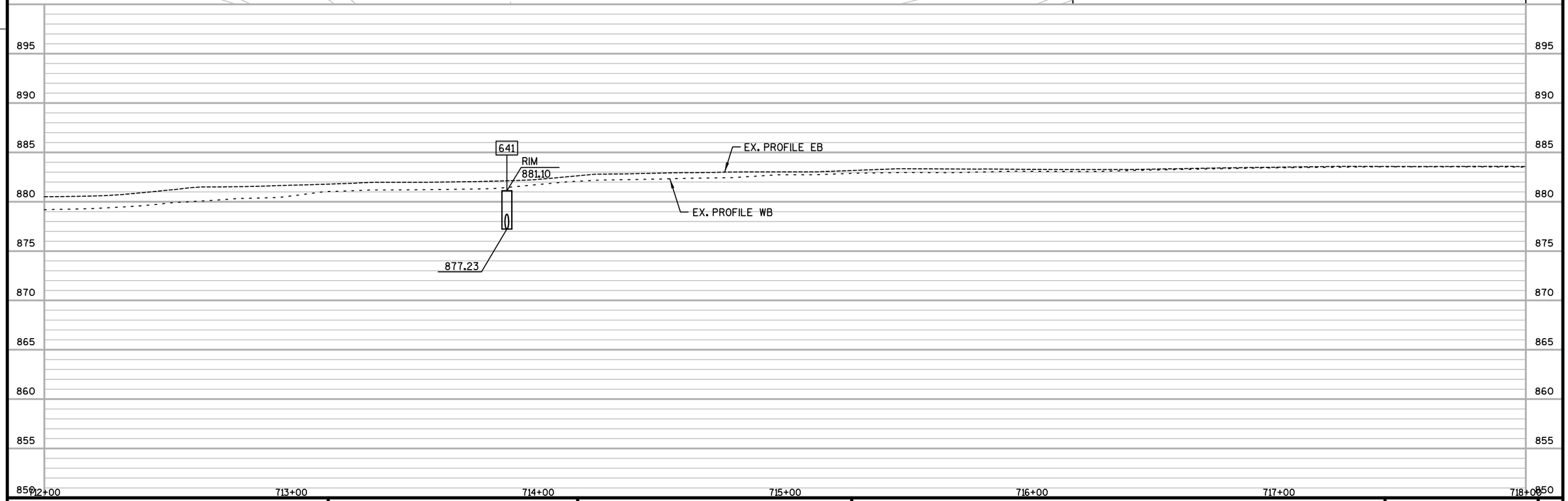
- (A) ADJUSTING INLET COVERS REQ'D.
- (B) STORM SEWER TAP REQ'D.
- (C) REMOVE VANE DRAIN REQ'D.
- (D) CULVERT PIPE CONCRETE COLLARS REQ'D.
- (E) ADJUSTING MANHOLE COVERS REQ'D.
- (F) REMOVING INLETS REQ'D.
- (G) REMOVING INLET COVERS REQ'D.
- (H) REMOVING STORM SEWER 12-INCH REQ'D.
- (I) REMOVING STORM SEWER 15-INCH REQ'D.
- (J) REMOVING STORM SEWER 18-INCH REQ'D.
- (K) REMOVING STORM SEWER 24-INCH REQ'D.
- ////// REMOVING STORM SEWER.



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

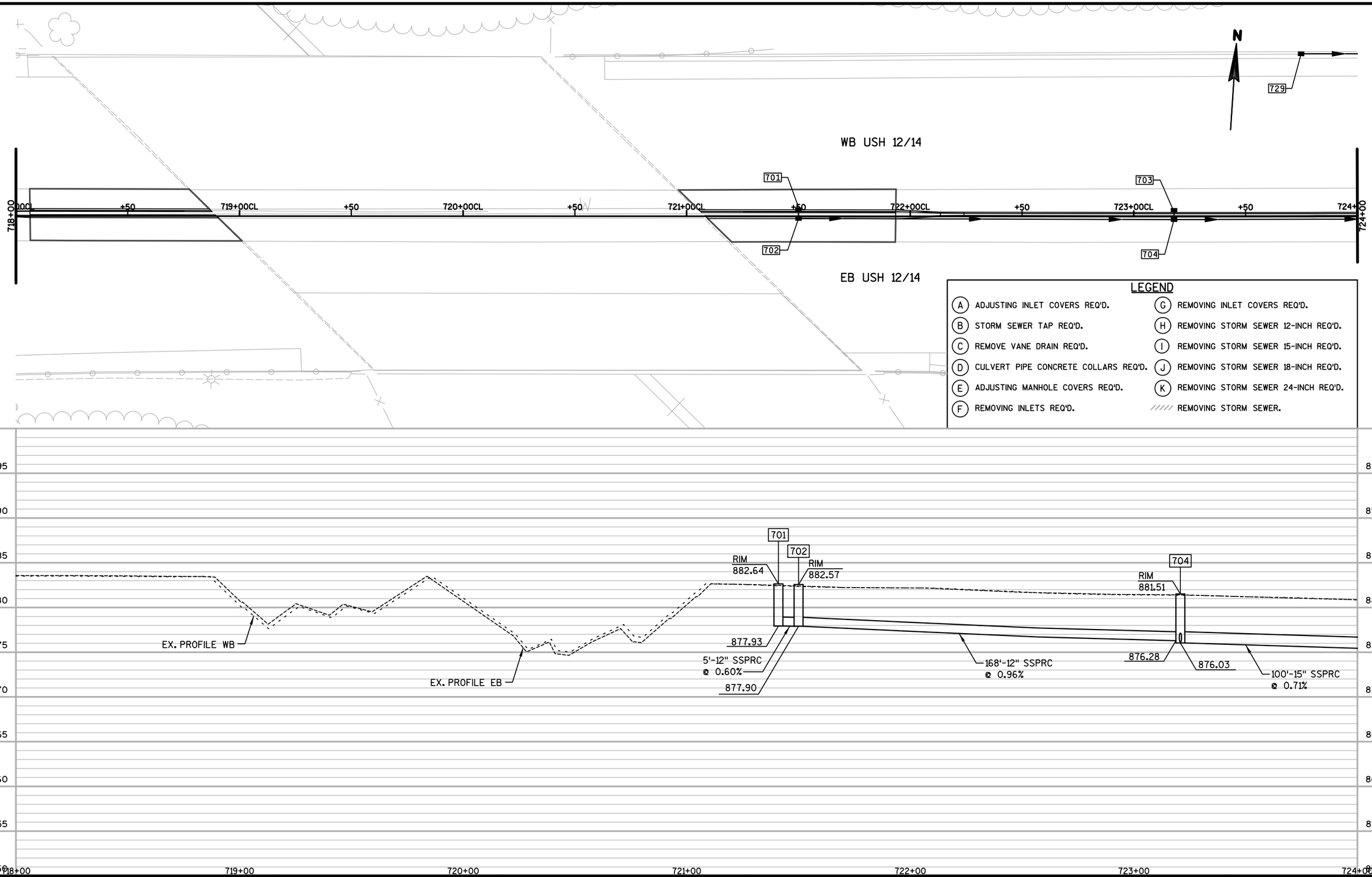
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

LEGEND

A	ADJUSTING INLET COVERS REQ'D.	G	REMOVING INLET COVERS REQ'D.
B	STORM SEWER TAP REQ'D.	H	REMOVING STORM SEWER 12-INCH REQ'D.
C	REMOVE VANE DRAIN REQ'D.	I	REMOVING STORM SEWER 15-INCH REQ'D.
D	CULVERT PIPE CONCRETE COLLARS REQ'D.	J	REMOVING STORM SEWER 18-INCH REQ'D.
E	ADJUSTING MANHOLE COVERS REQ'D.	K	REMOVING STORM SEWER 24-INCH REQ'D.
F	REMOVING INLETS REQ'D.	/////	REMOVING STORM SEWER.

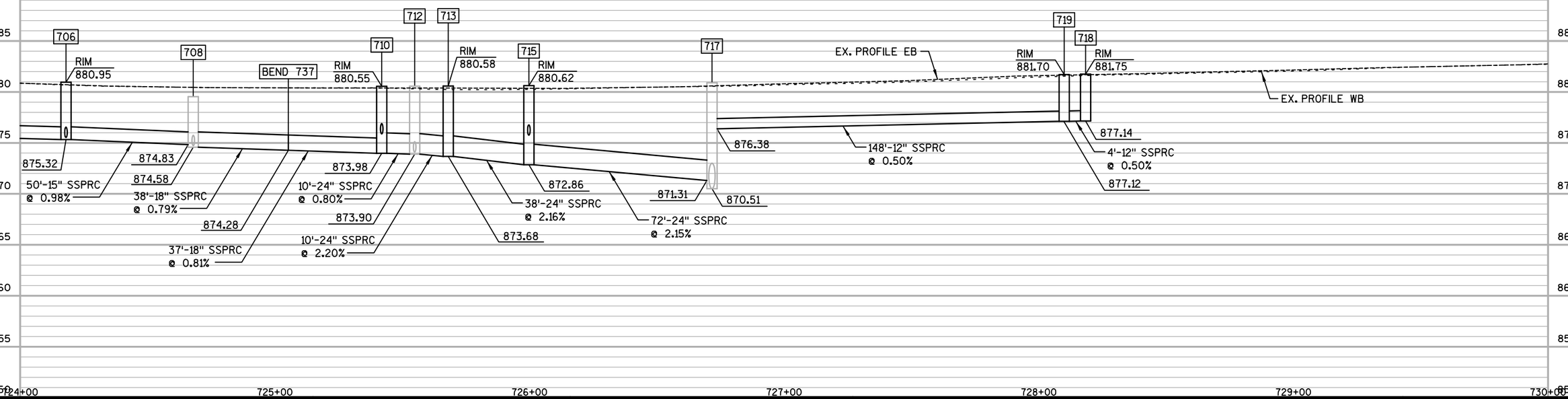
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WB USH 12/14

EB USH 12/14

724+00CL | +50 | 725+00CL | +50 | 726+00CL | +50 | 727+00CL | +50 | 728+00CL | +50 | 729+00CL | +50 | 730+00

705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 730 731 732 733 734 737 795 796 798



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2

SIGN

N

WB USH 12/14

EB USH 12/14

799 A

720 A

721 B A

722

724 D

738 D

739

723

735 A

730+00 00CL +50 731+00CL +50 732+00CL +50 733+00CL +50 734+00CL +50 735+00CL +50 736+00

LEGEND

A	ADJUSTING INLET COVERS REQ'D.	G	REMOVING INLET COVERS REQ'D.
B	STORM SEWER TAP REQ'D.	H	REMOVING STORM SEWER 12-INCH REQ'D.
C	REMOVE VANE DRAIN REQ'D.	I	REMOVING STORM SEWER 15-INCH REQ'D.
D	CULVERT PIPE CONCRETE COLLARS REQ'D.	J	REMOVING STORM SEWER 18-INCH REQ'D.
E	ADJUSTING MANHOLE COVERS REQ'D.	K	REMOVING STORM SEWER 24-INCH REQ'D.
F	REMOVING INLETS REQ'D.	//////	REMOVING STORM SEWER.

900 895 890 885 880 875 870 865 860 855

EX. PROFILE EB

EX. PROFILE WB

721 720 722 RIM 884.55 723 RIM 886.71 BEND 738 BEND 739

878.26 878.79 878.54 879.67 881.34 881.53 881.83

50'-15" SSPRC @ 1.76%

260'-15" SSPRC @ 0.64%

30'-15" SSPRC @ 0.63%

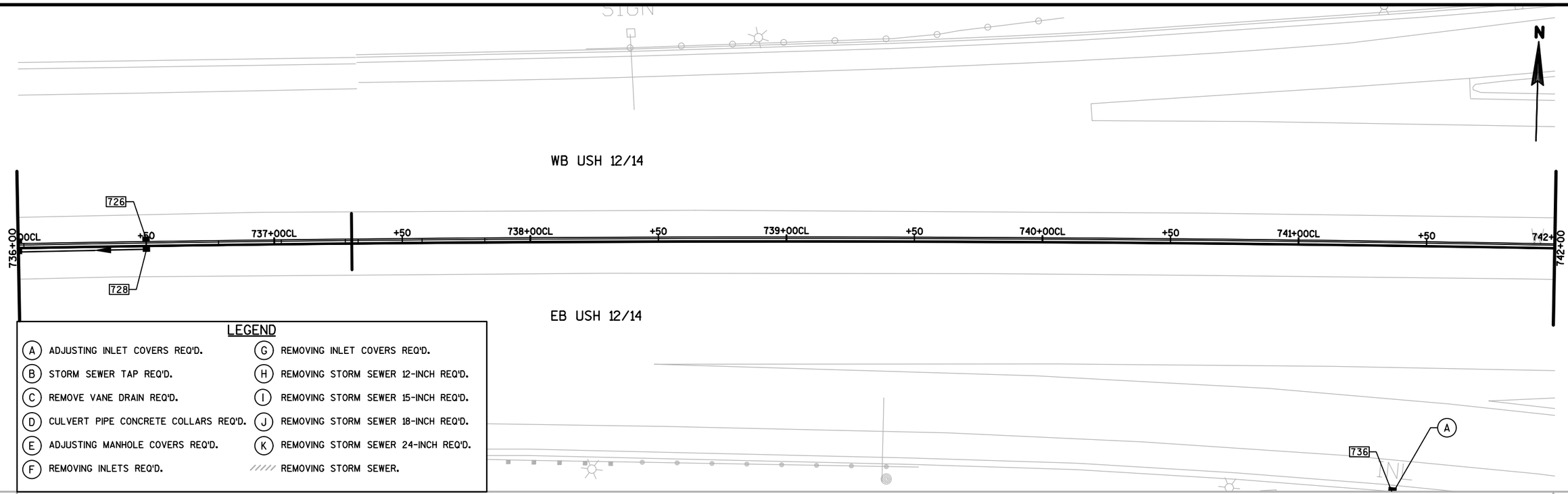
50'-15" SSPRC @ 0.60%

730+00 731+00 732+00 733+00 734+00 735+00 736+00

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

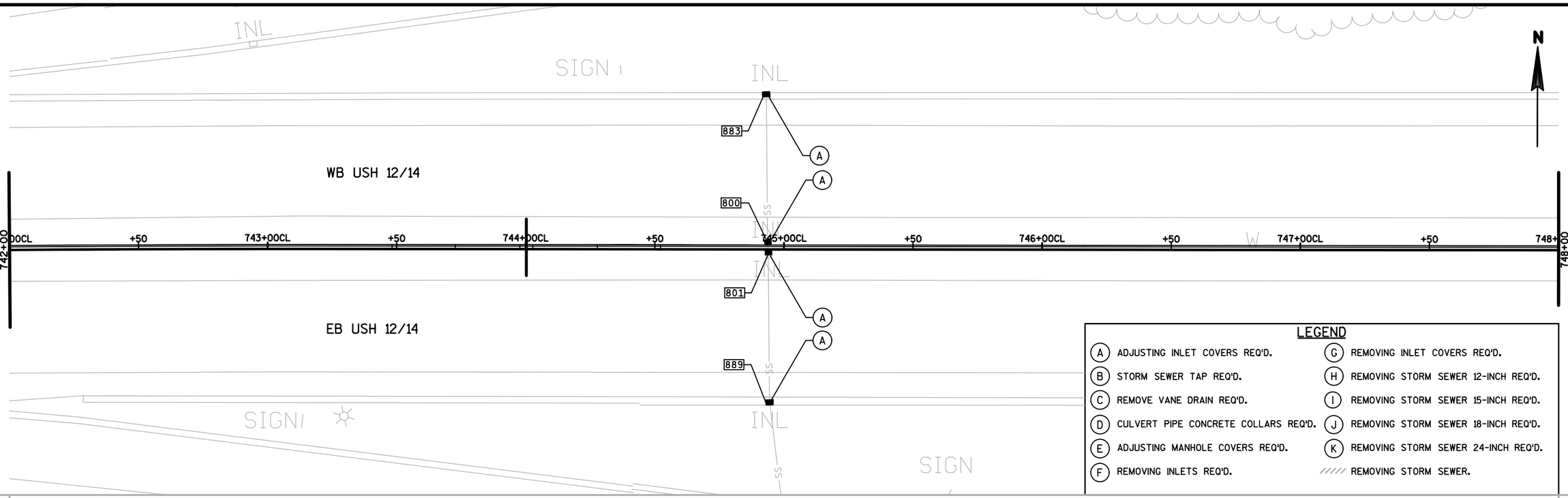
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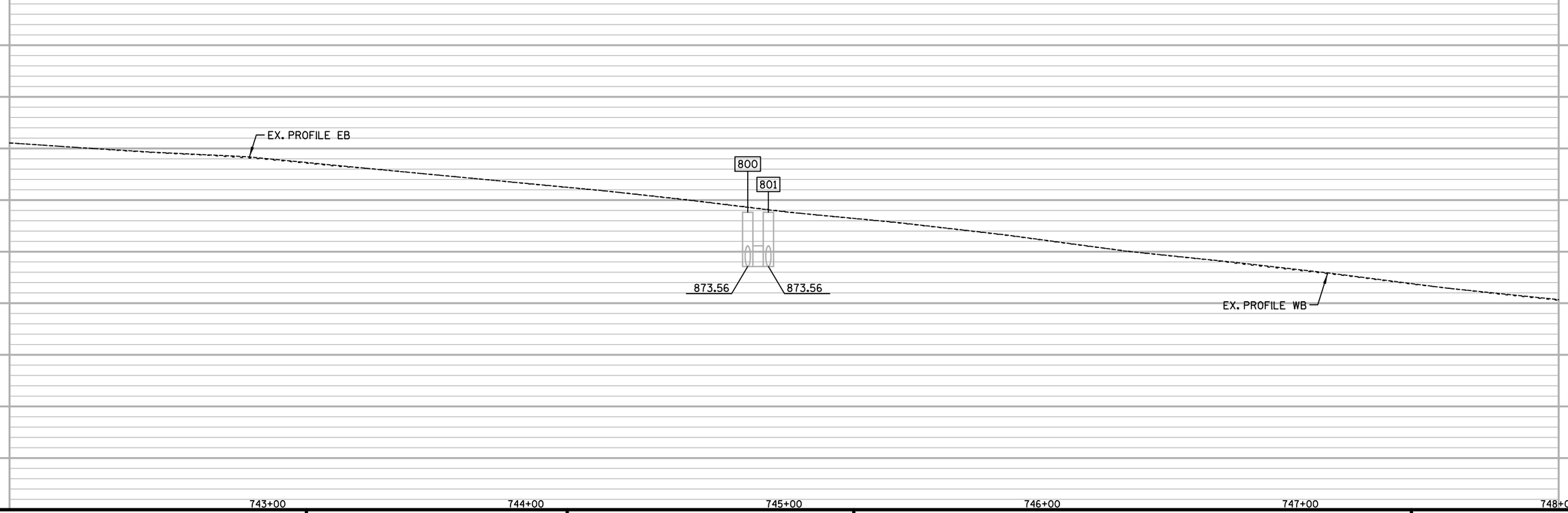
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2



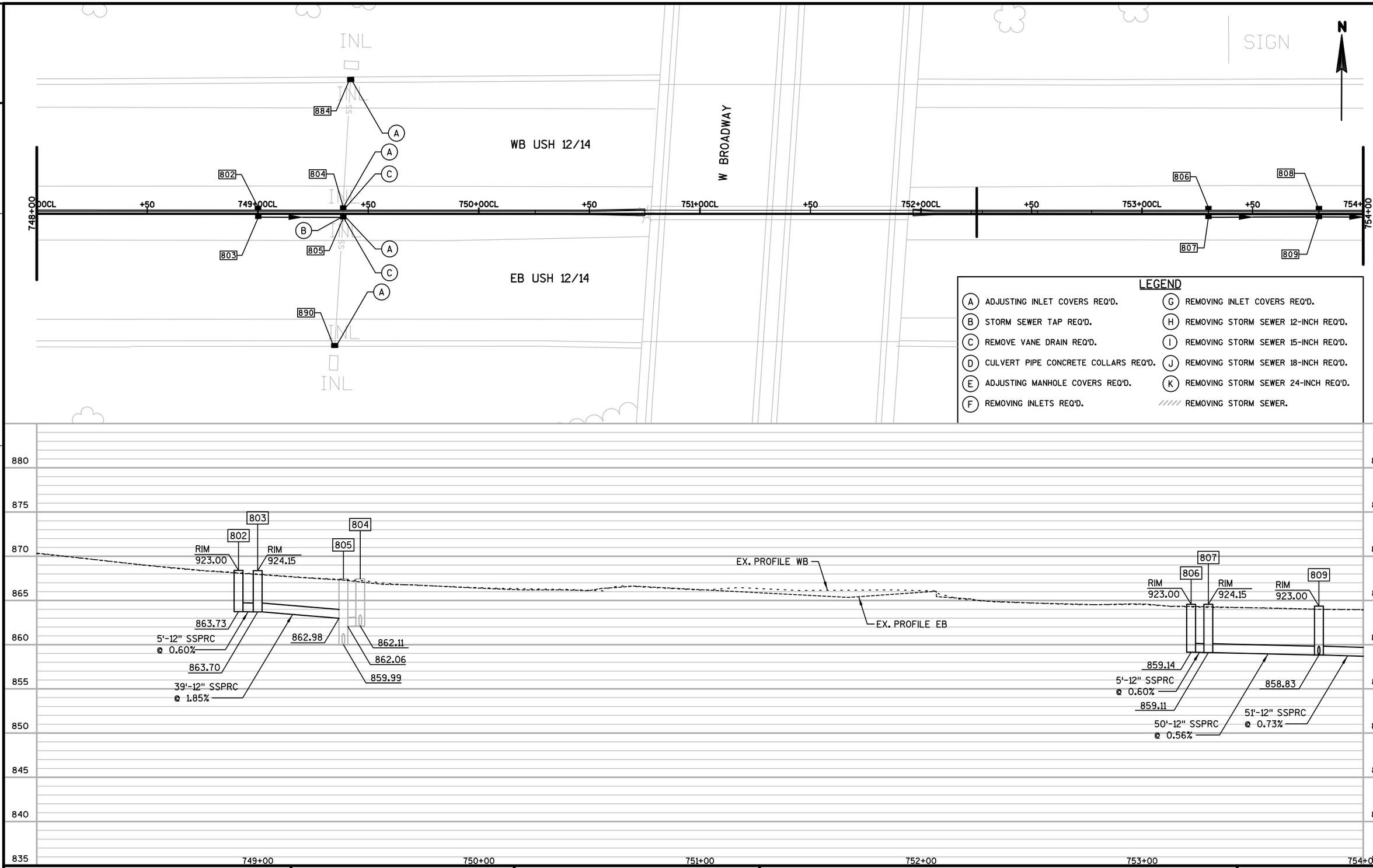
LEGEND

(A) ADJUSTING INLET COVERS REQ'D.	(G) REMOVING INLET COVERS REQ'D.
(B) STORM SEWER TAP REQ'D.	(H) REMOVING STORM SEWER 12-INCH REQ'D.
(C) REMOVE VANE DRAIN REQ'D.	(I) REMOVING STORM SEWER 15-INCH REQ'D.
(D) CULVERT PIPE CONCRETE COLLARS REQ'D.	(J) REMOVING STORM SEWER 18-INCH REQ'D.
(E) ADJUSTING MANHOLE COVERS REQ'D.	(K) REMOVING STORM SEWER 24-INCH REQ'D.
(F) REMOVING INLETS REQ'D.	////// REMOVING STORM SEWER.



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2

N

WB USH 12/14

EB USH 12/14

754+00

00CL

+50

755+00CL

+50

756+00CL

+50

757+00CL

+50

758+00CL

+50

759+00CL

+50

760+00

760+00

885 A

888 A C

892 A

810 A C

811 B A C

812 813

814 815

816 A C B

817 A C

891 A

886 C A

887 A

LEGEND

A	ADJUSTING INLET COVERS REQ'D.	G	REMOVING INLET COVERS REQ'D.
B	STORM SEWER TAP REQ'D.	H	REMOVING STORM SEWER 12-INCH REQ'D.
C	REMOVE VANE DRAIN REQ'D.	I	REMOVING STORM SEWER 15-INCH REQ'D.
D	CULVERT PIPE CONCRETE COLLARS REQ'D.	J	REMOVING STORM SEWER 18-INCH REQ'D.
E	ADJUSTING MANHOLE COVERS REQ'D.	K	REMOVING STORM SEWER 24-INCH REQ'D.
F	REMOVING INLETS REQ'D.	//////	REMOVING STORM SEWER.

875
870
865
860
855
850
845
840
835
830

811 810 812 813 814 816 817

RIM 863.68 RIM 863.68 RIM 862.70

EX. PROFILE WB

EX. PROFILE EB

858.46 858.46 859.57 859.55 858.25 857.75 857.70

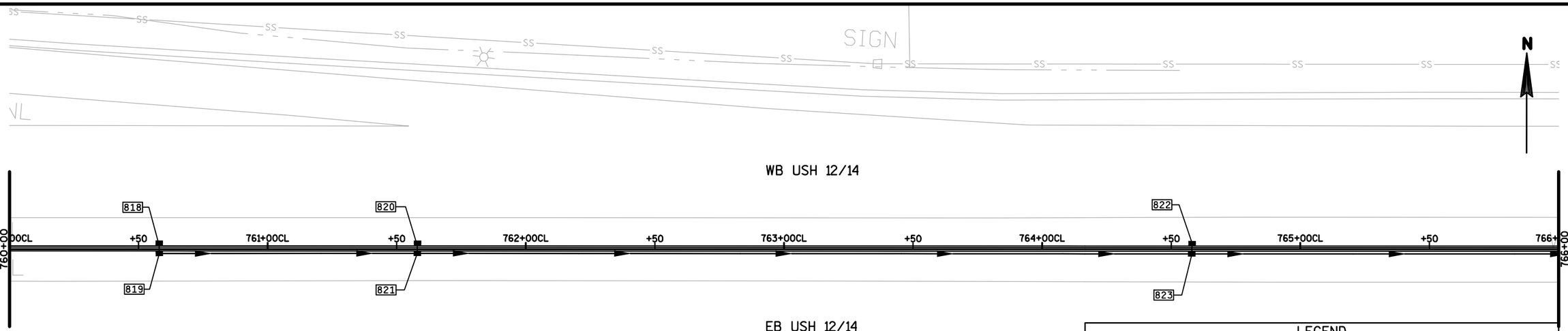
4'-12" SSPRC @ 0.50%

295'-12" SSPRC @ 0.44%

114'-12" SSPRC @ 0.44%

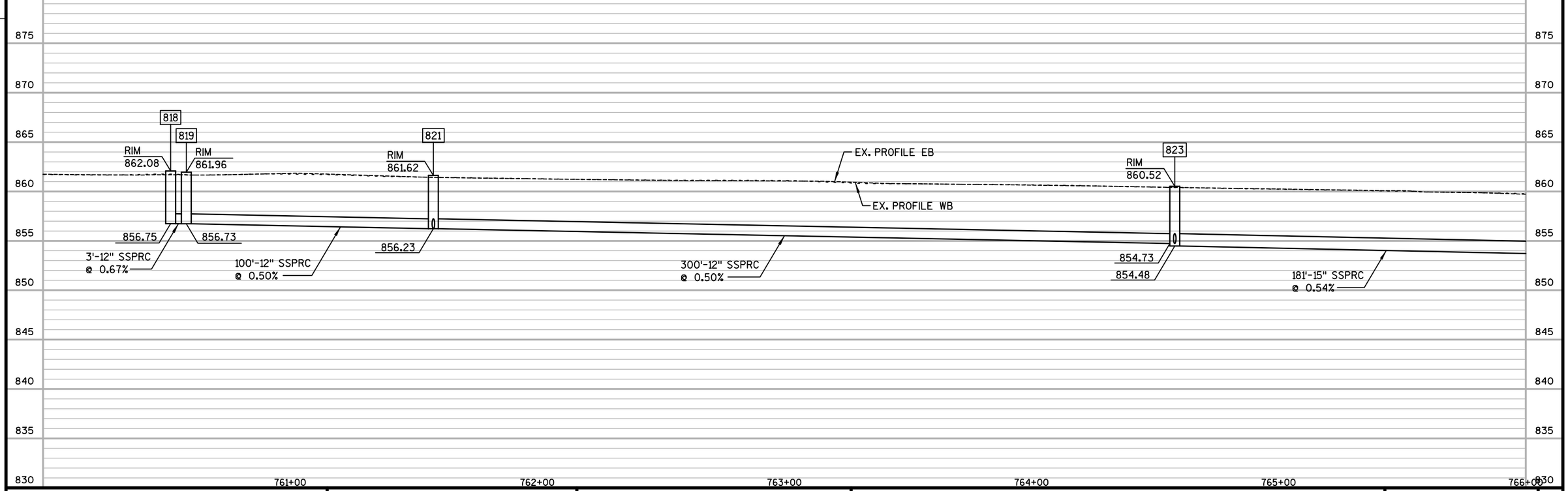
755+00 756+00 757+00 758+00 759+00 760+00

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E



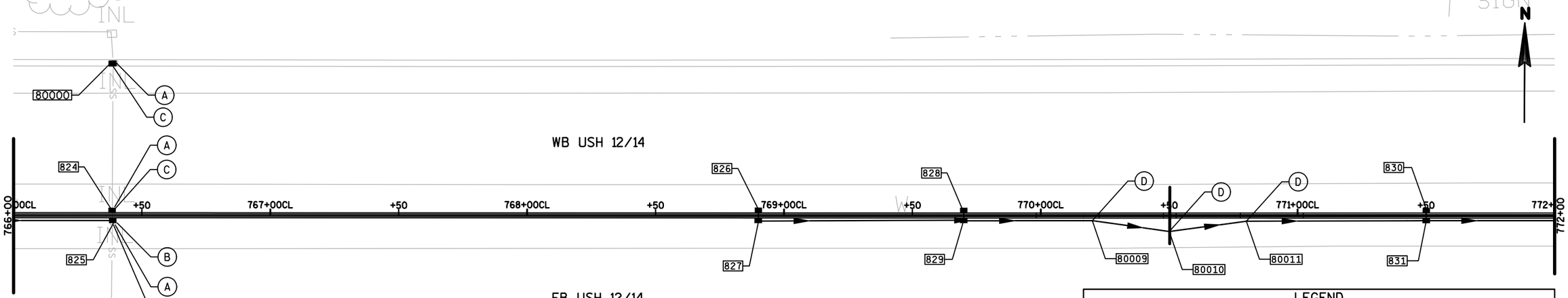
LEGEND

- (A) ADJUSTING INLET COVERS REQ'D.
- (B) STORM SEWER TAP REQ'D.
- (C) REMOVE VANE DRAIN REQ'D.
- (D) CULVERT PIPE CONCRETE COLLARS REQ'D.
- (E) ADJUSTING MANHOLE COVERS REQ'D.
- (F) REMOVING INLETS REQ'D.
- (G) REMOVING INLET COVERS REQ'D.
- (H) REMOVING STORM SEWER 12-INCH REQ'D.
- (I) REMOVING STORM SEWER 15-INCH REQ'D.
- (J) REMOVING STORM SEWER 18-INCH REQ'D.
- (K) REMOVING STORM SEWER 24-INCH REQ'D.
- ////// REMOVING STORM SEWER.



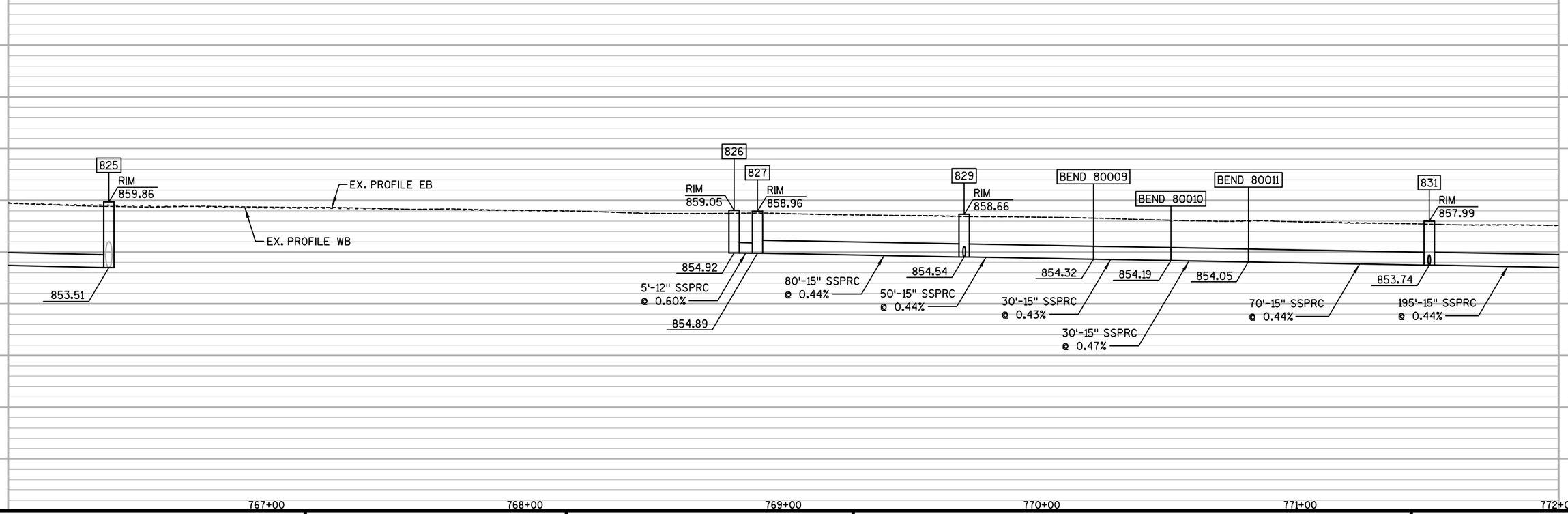
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2



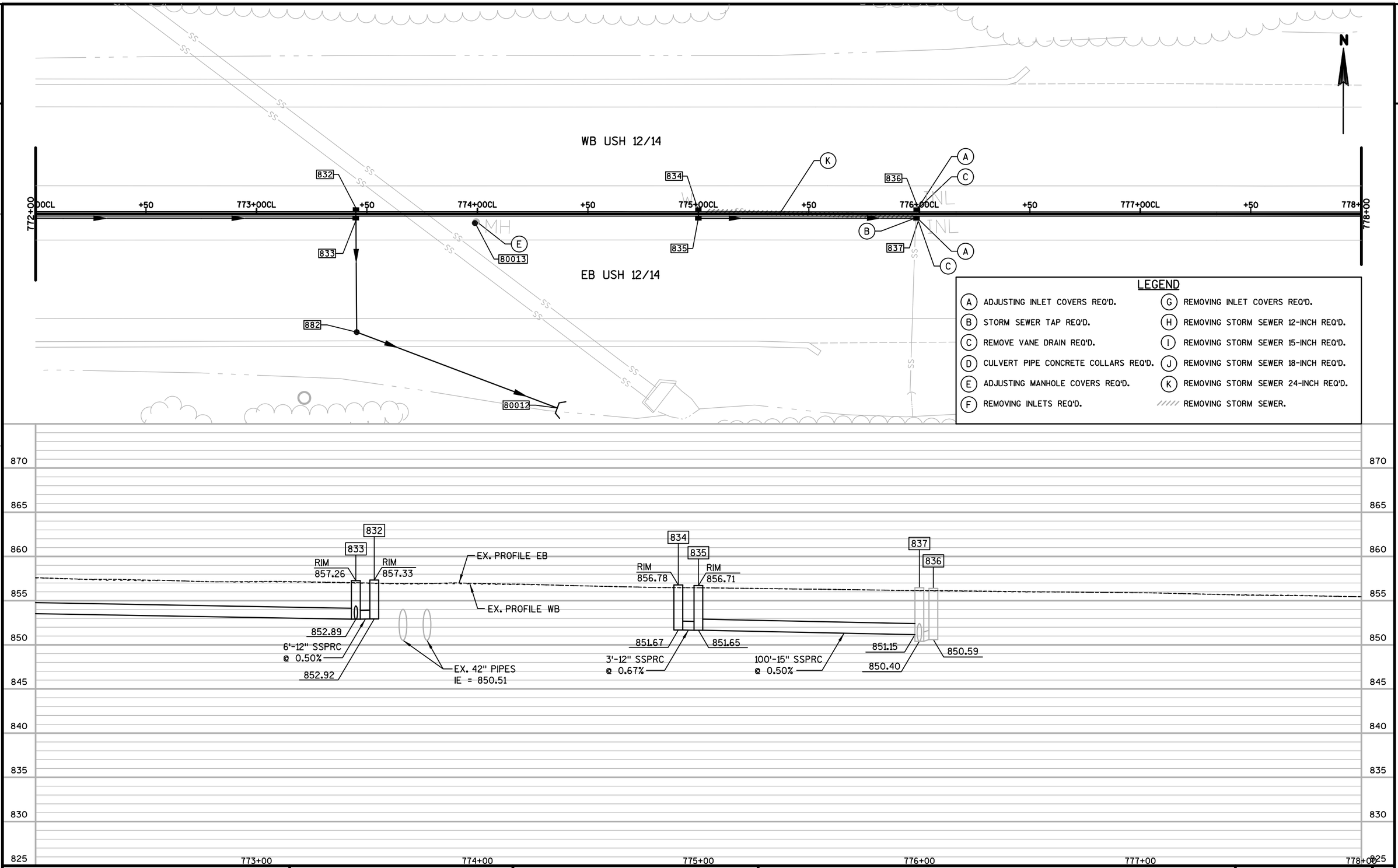
LEGEND

(A)	ADJUSTING INLET COVERS REQ'D.	(G)	REMOVING INLET COVERS REQ'D.
(B)	STORM SEWER TAP REQ'D.	(H)	REMOVING STORM SEWER 12-INCH REQ'D.
(C)	REMOVE VANE DRAIN REQ'D.	(I)	REMOVING STORM SEWER 15-INCH REQ'D.
(D)	CULVERT PIPE CONCRETE COLLARS REQ'D.	(J)	REMOVING STORM SEWER 18-INCH REQ'D.
(E)	ADJUSTING MANHOLE COVERS REQ'D.	(K)	REMOVING STORM SEWER 24-INCH REQ'D.
(F)	REMOVING INLETS REQ'D.	//////	REMOVING STORM SEWER.

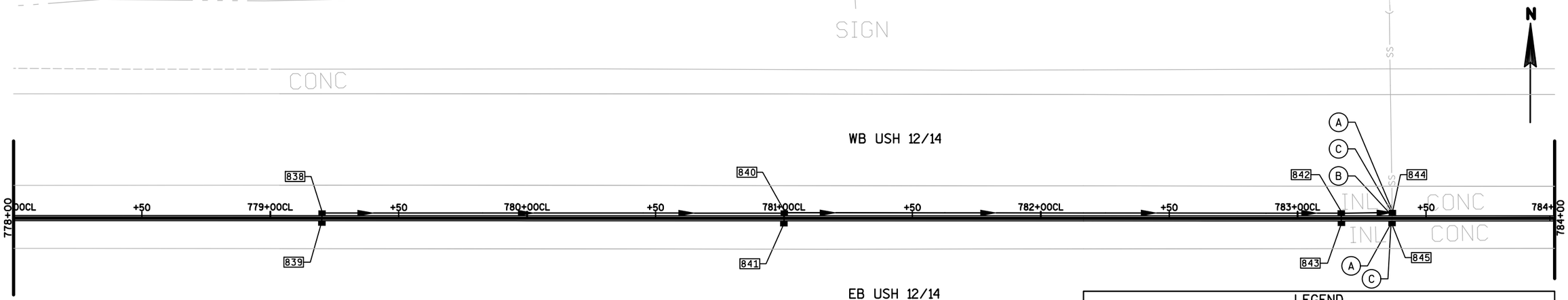


PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2

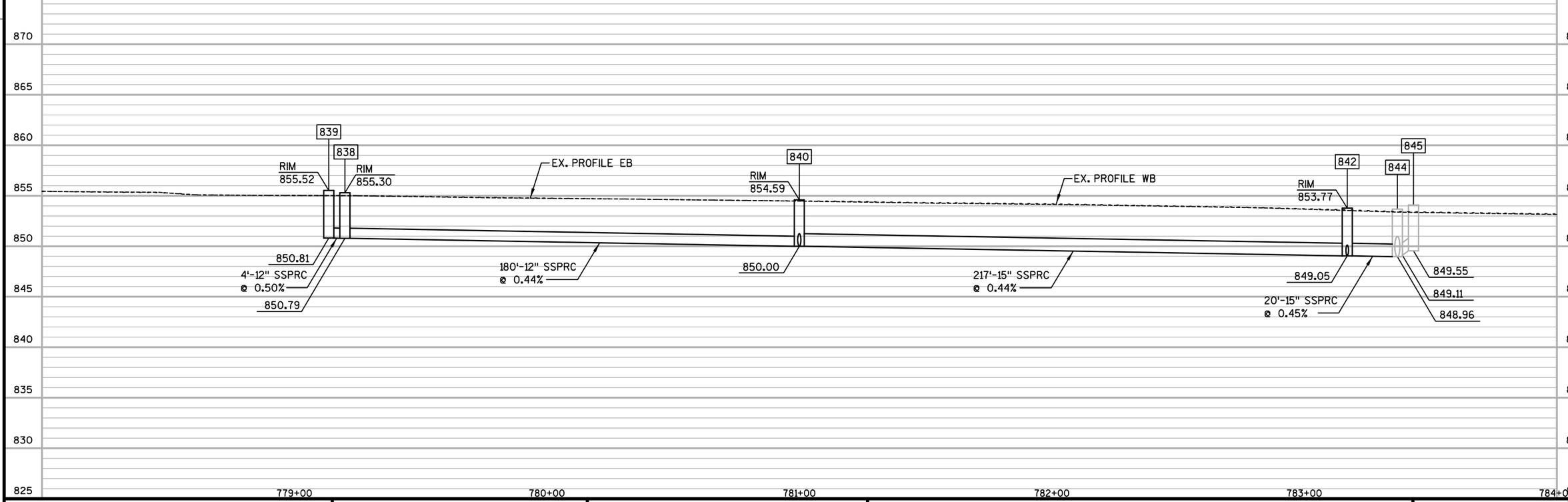


PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E



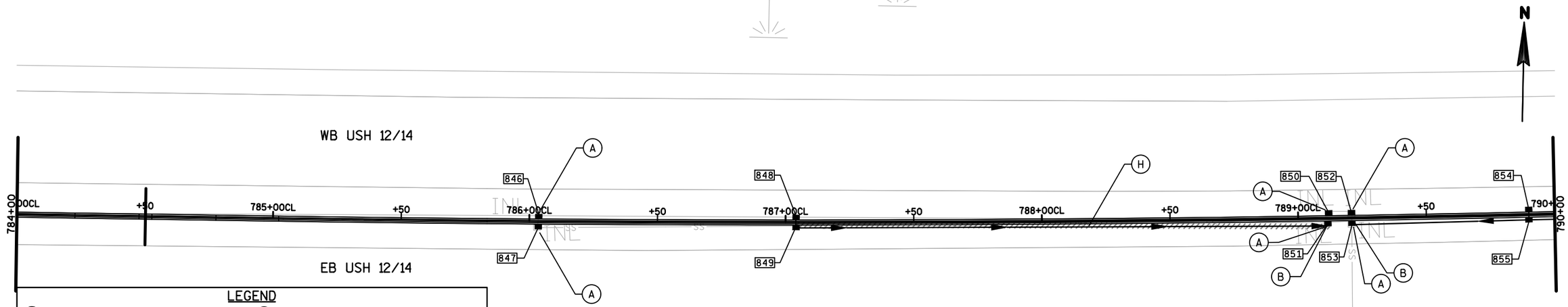
LEGEND

(A)	ADJUSTING INLET COVERS REQ'D.	(G)	REMOVING INLET COVERS REQ'D.
(B)	STORM SEWER TAP REQ'D.	(H)	REMOVING STORM SEWER 12-INCH REQ'D.
(C)	REMOVE VANE DRAIN REQ'D.	(I)	REMOVING STORM SEWER 15-INCH REQ'D.
(D)	CULVERT PIPE CONCRETE COLLARS REQ'D.	(J)	REMOVING STORM SEWER 18-INCH REQ'D.
(E)	ADJUSTING MANHOLE COVERS REQ'D.	(K)	REMOVING STORM SEWER 24-INCH REQ'D.
(F)	REMOVING INLETS REQ'D.	//////	REMOVING STORM SEWER.



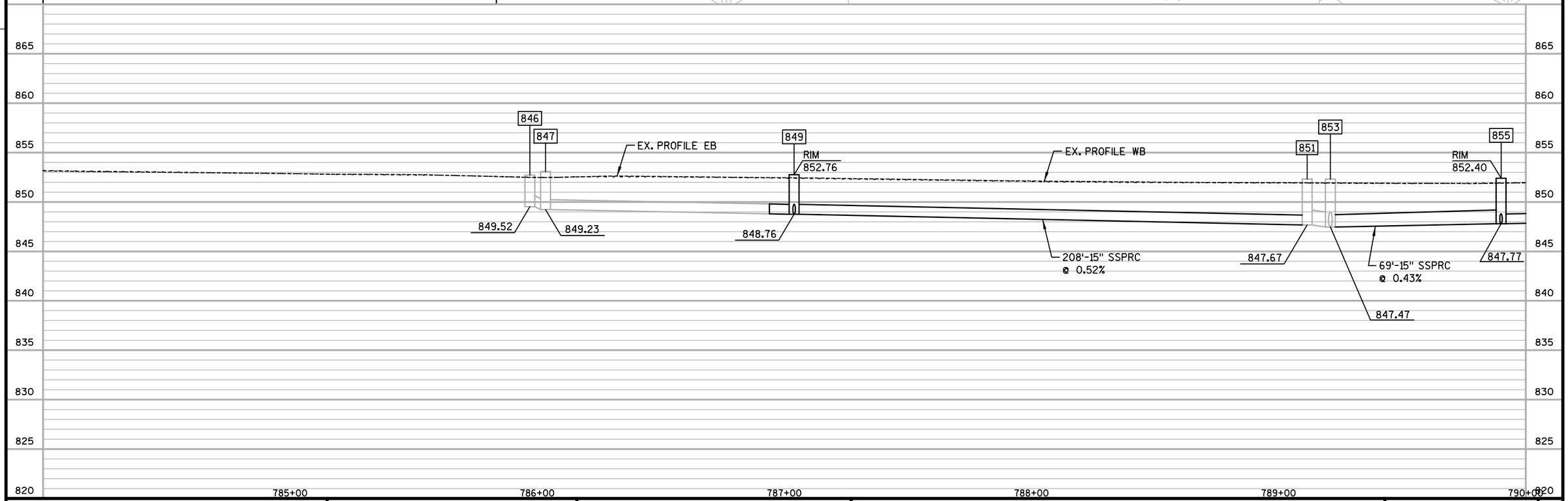
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2



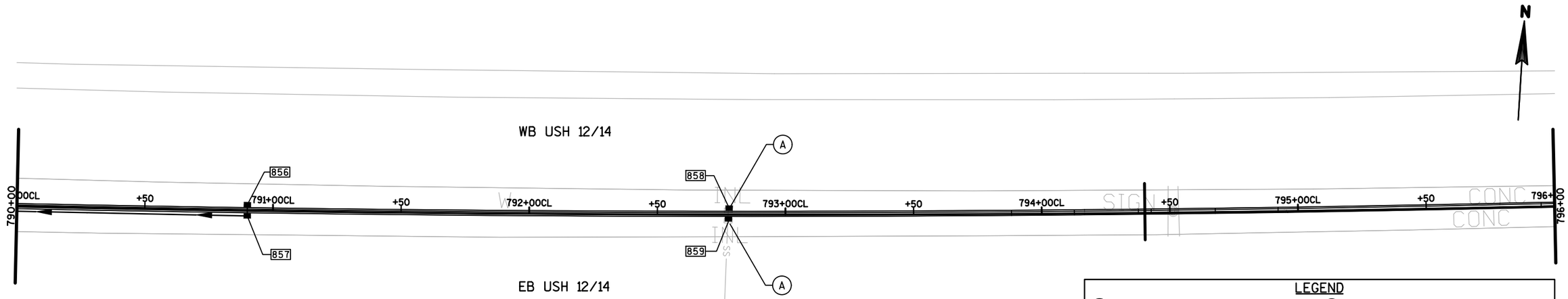
LEGEND

(A)	ADJUSTING INLET COVERS REQ'D.	(G)	REMOVING INLET COVERS REQ'D.
(B)	STORM SEWER TAP REQ'D.	(H)	REMOVING STORM SEWER 12-INCH REQ'D.
(C)	REMOVE VANE DRAIN REQ'D.	(I)	REMOVING STORM SEWER 15-INCH REQ'D.
(D)	CULVERT PIPE CONCRETE COLLARS REQ'D.	(J)	REMOVING STORM SEWER 18-INCH REQ'D.
(E)	ADJUSTING MANHOLE COVERS REQ'D.	(K)	REMOVING STORM SEWER 24-INCH REQ'D.
(F)	REMOVING INLETS REQ'D.	//////	REMOVING STORM SEWER.



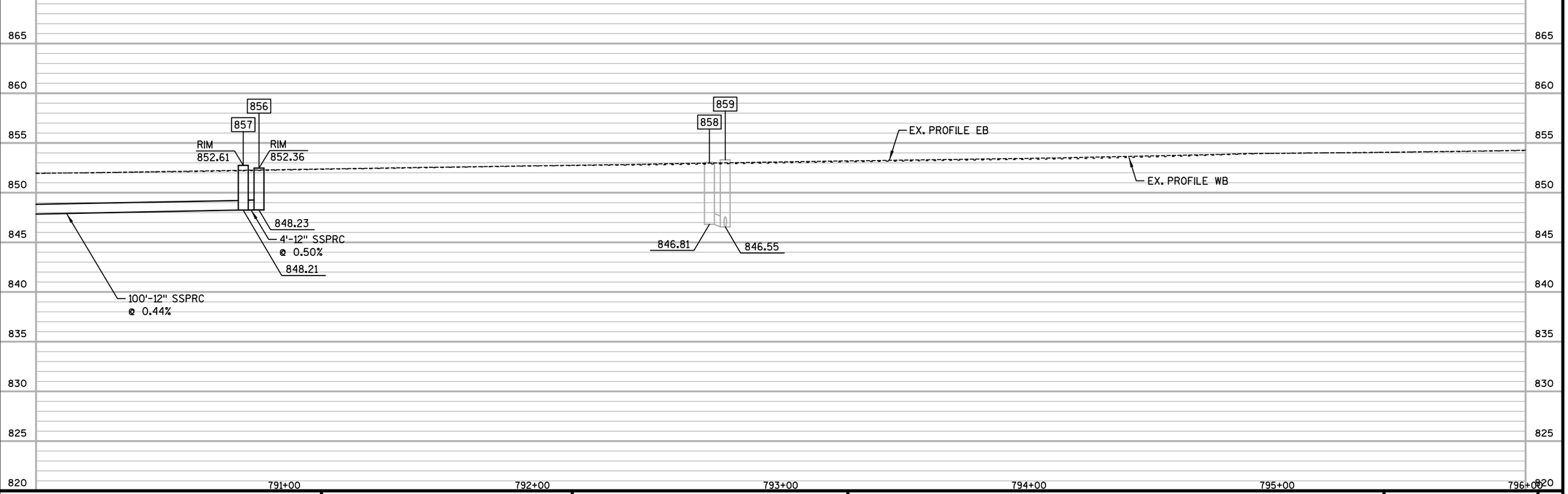
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2

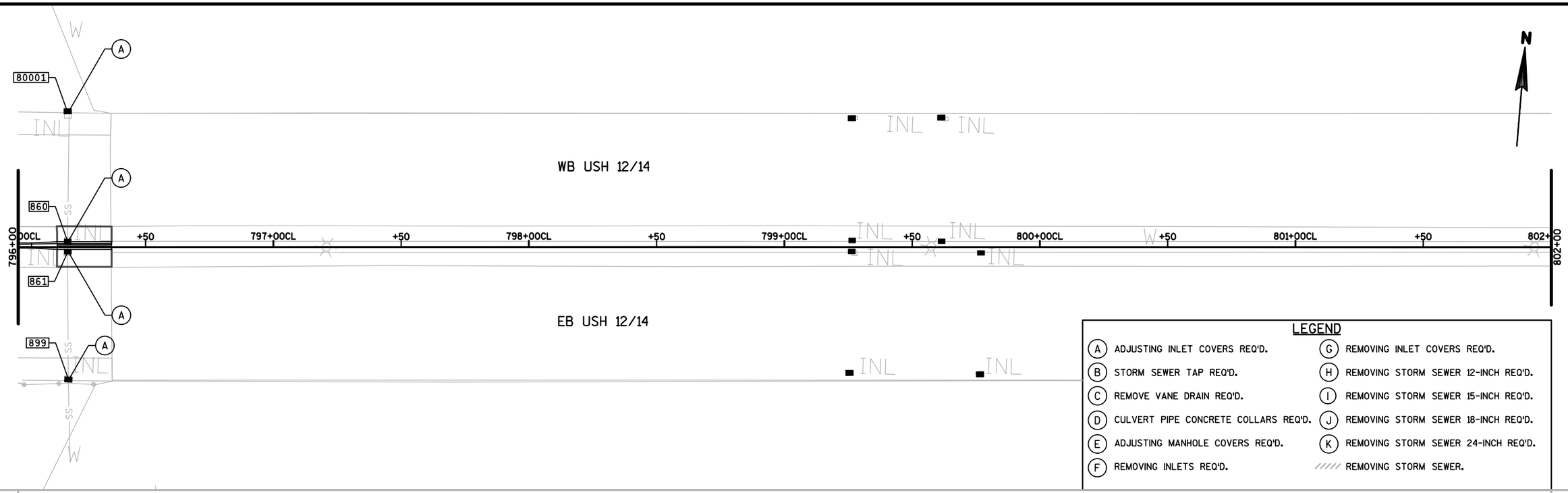


LEGEND

(A) ADJUSTING INLET COVERS REQ'D.	(G) REMOVING INLET COVERS REQ'D.
(B) STORM SEWER TAP REQ'D.	(H) REMOVING STORM SEWER 12-INCH REQ'D.
(C) REMOVE VANE DRAIN REQ'D.	(I) REMOVING STORM SEWER 15-INCH REQ'D.
(D) CULVERT PIPE CONCRETE COLLARS REQ'D.	(J) REMOVING STORM SEWER 18-INCH REQ'D.
(E) ADJUSTING MANHOLE COVERS REQ'D.	(K) REMOVING STORM SEWER 24-INCH REQ'D.
(F) REMOVING INLETS REQ'D.	////// REMOVING STORM SEWER.

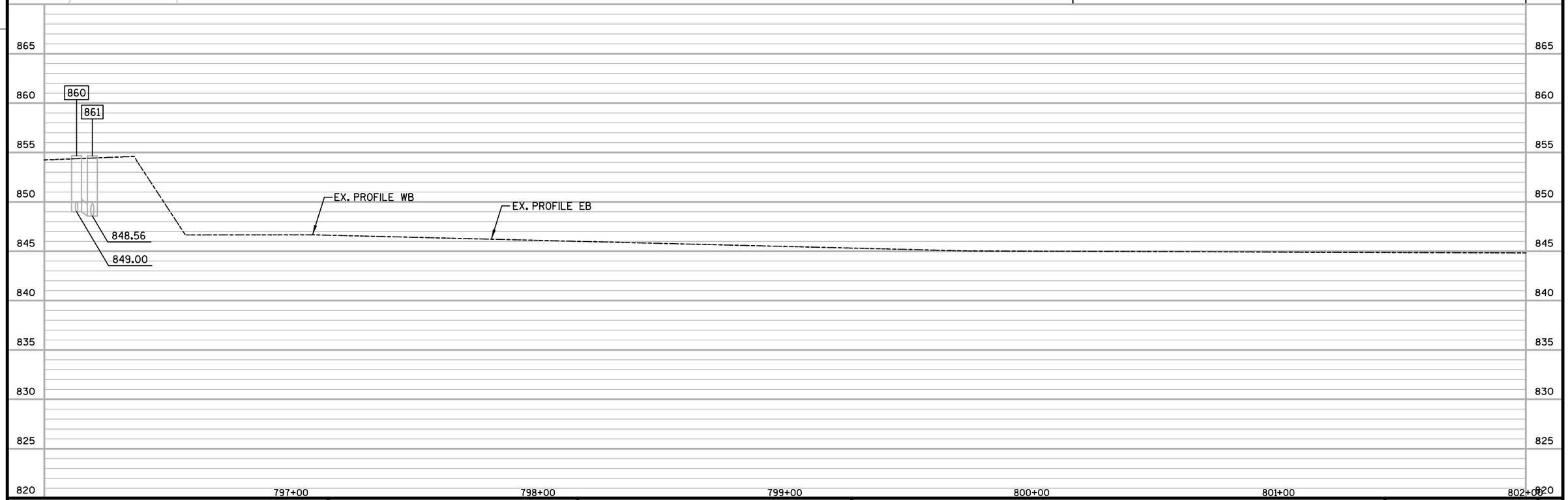


PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E



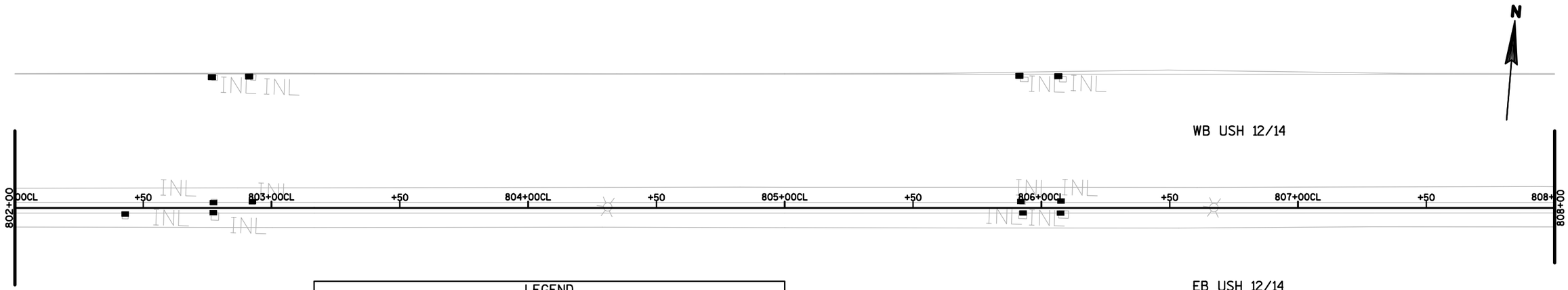
LEGEND

(A)	ADJUSTING INLET COVERS REQ'D.	(G)	REMOVING INLET COVERS REQ'D.
(B)	STORM SEWER TAP REQ'D.	(H)	REMOVING STORM SEWER 12-INCH REQ'D.
(C)	REMOVE VANE DRAIN REQ'D.	(I)	REMOVING STORM SEWER 15-INCH REQ'D.
(D)	CULVERT PIPE CONCRETE COLLARS REQ'D.	(J)	REMOVING STORM SEWER 18-INCH REQ'D.
(E)	ADJUSTING MANHOLE COVERS REQ'D.	(K)	REMOVING STORM SEWER 24-INCH REQ'D.
(F)	REMOVING INLETS REQ'D.	/////	REMOVING STORM SEWER.



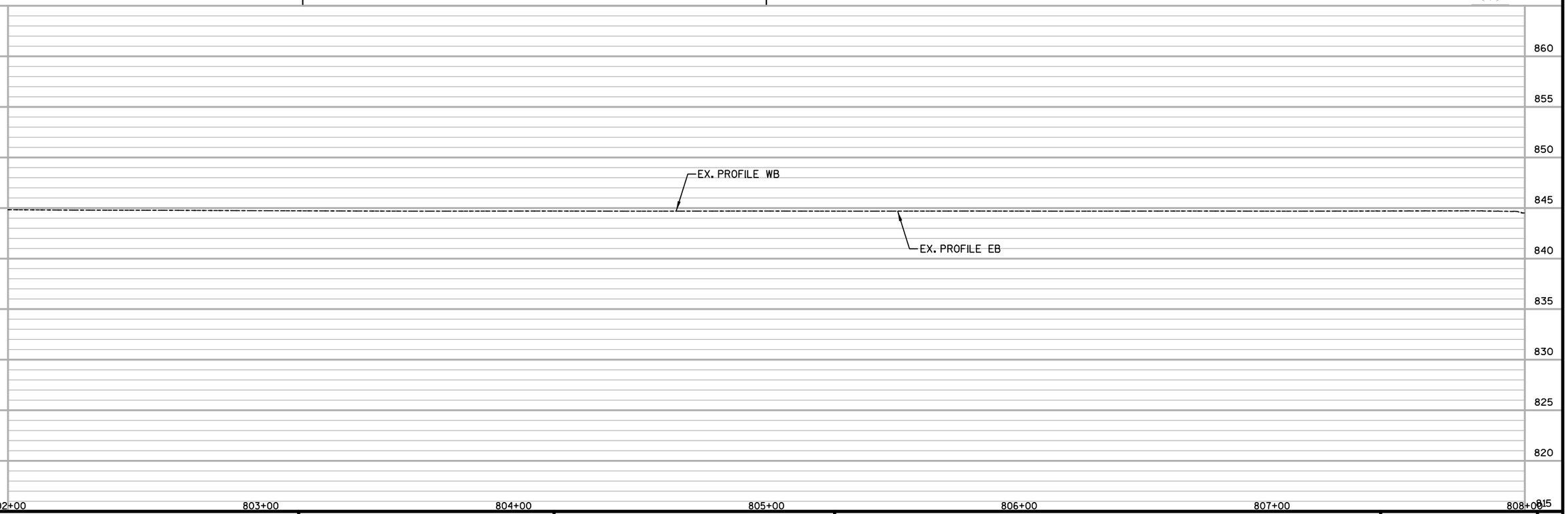
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2



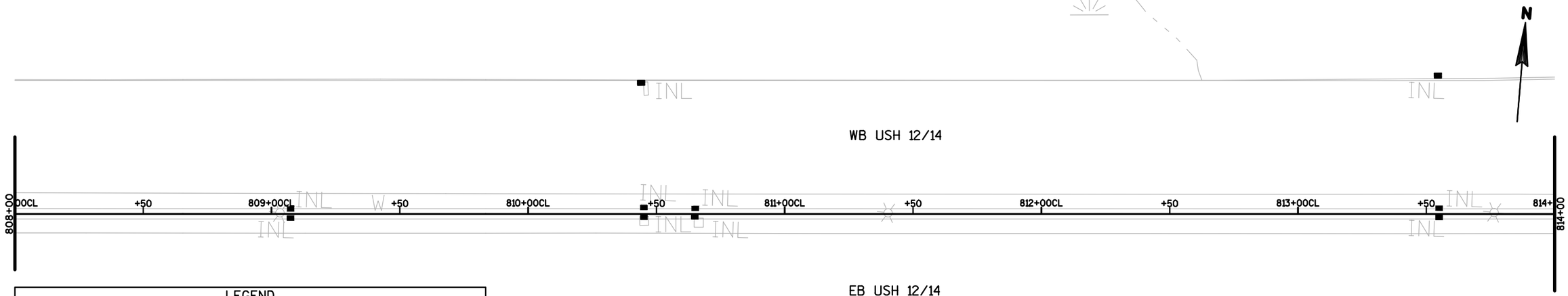
LEGEND

(A) ADJUSTING INLET COVERS REQ'D.	(G) REMOVING INLET COVERS REQ'D.
(B) STORM SEWER TAP REQ'D.	(H) REMOVING STORM SEWER 12-INCH REQ'D.
(C) REMOVE VANE DRAIN REQ'D.	(I) REMOVING STORM SEWER 15-INCH REQ'D.
(D) CULVERT PIPE CONCRETE COLLARS REQ'D.	(J) REMOVING STORM SEWER 18-INCH REQ'D.
(E) ADJUSTING MANHOLE COVERS REQ'D.	(K) REMOVING STORM SEWER 24-INCH REQ'D.
(F) REMOVING INLETS REQ'D.	////// REMOVING STORM SEWER.



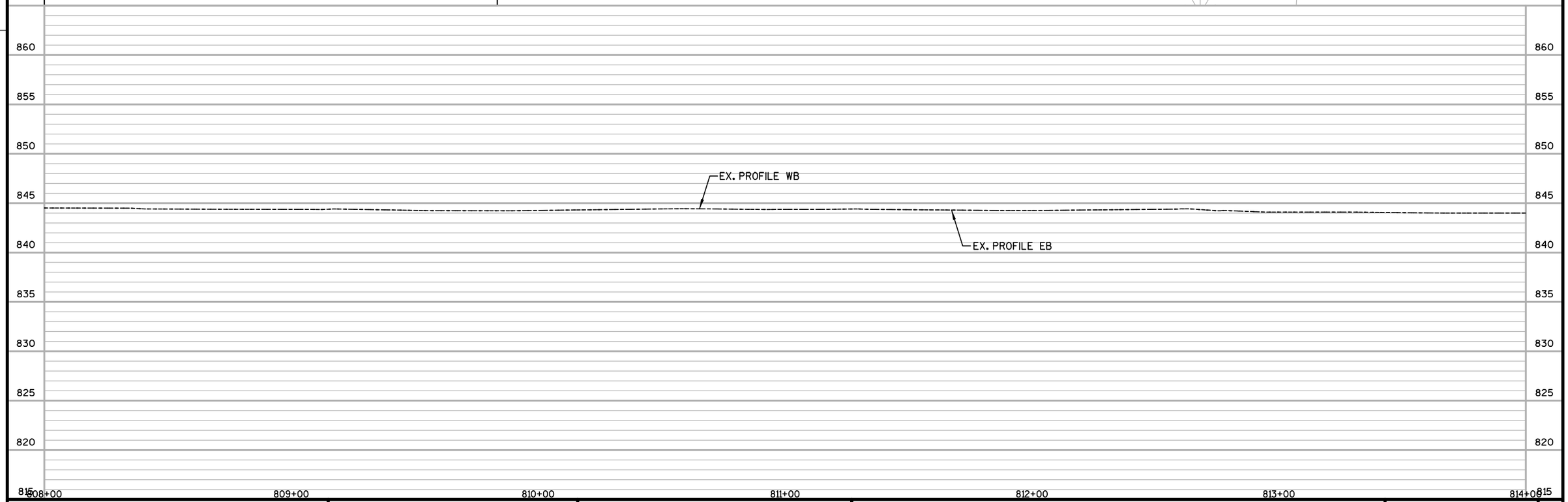
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2



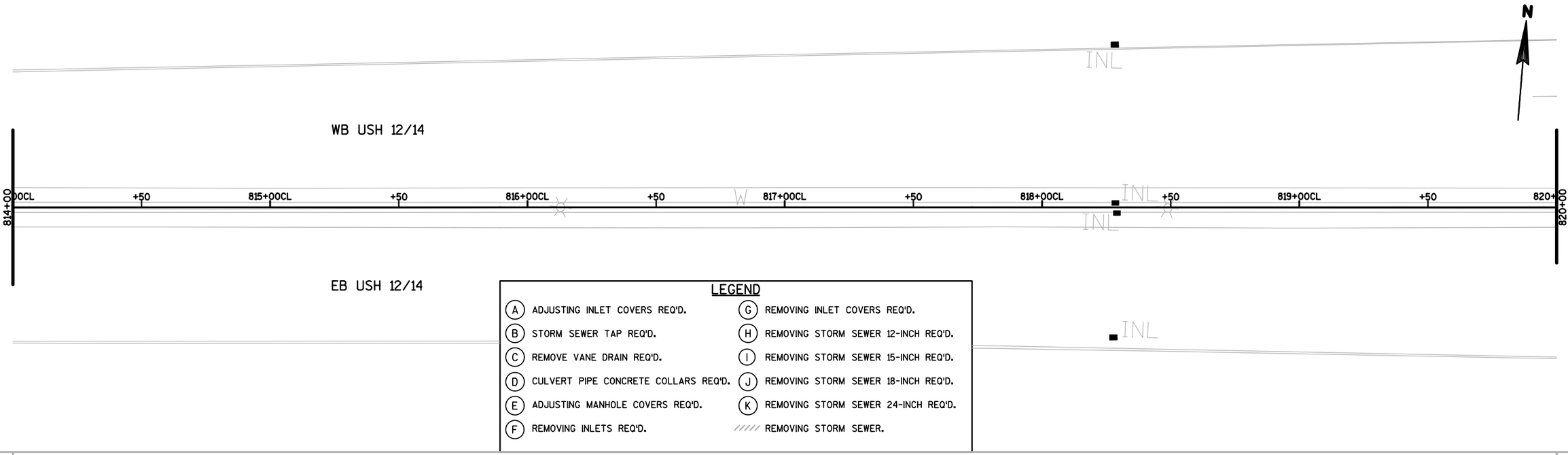
LEGEND

(A) ADJUSTING INLET COVERS REQ'D.	(G) REMOVING INLET COVERS REQ'D.
(B) STORM SEWER TAP REQ'D.	(H) REMOVING STORM SEWER 12-INCH REQ'D.
(C) REMOVE VANE DRAIN REQ'D.	(I) REMOVING STORM SEWER 15-INCH REQ'D.
(D) CULVERT PIPE CONCRETE COLLARS REQ'D.	(J) REMOVING STORM SEWER 18-INCH REQ'D.
(E) ADJUSTING MANHOLE COVERS REQ'D.	(K) REMOVING STORM SEWER 24-INCH REQ'D.
(F) REMOVING INLETS REQ'D.	////// REMOVING STORM SEWER.



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

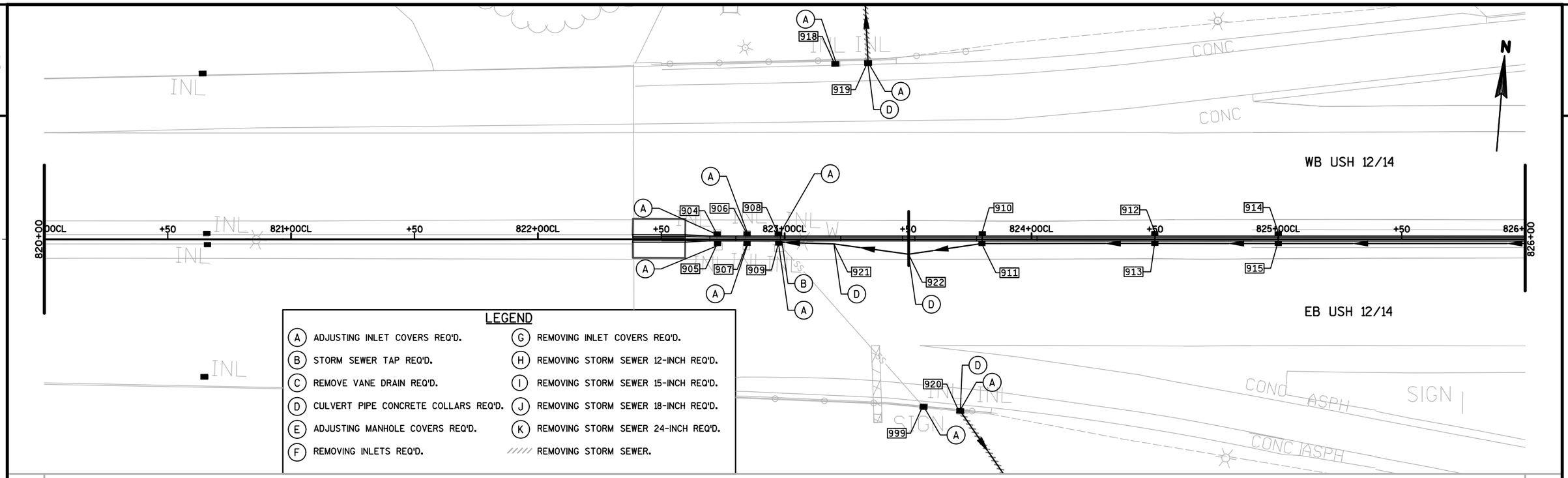
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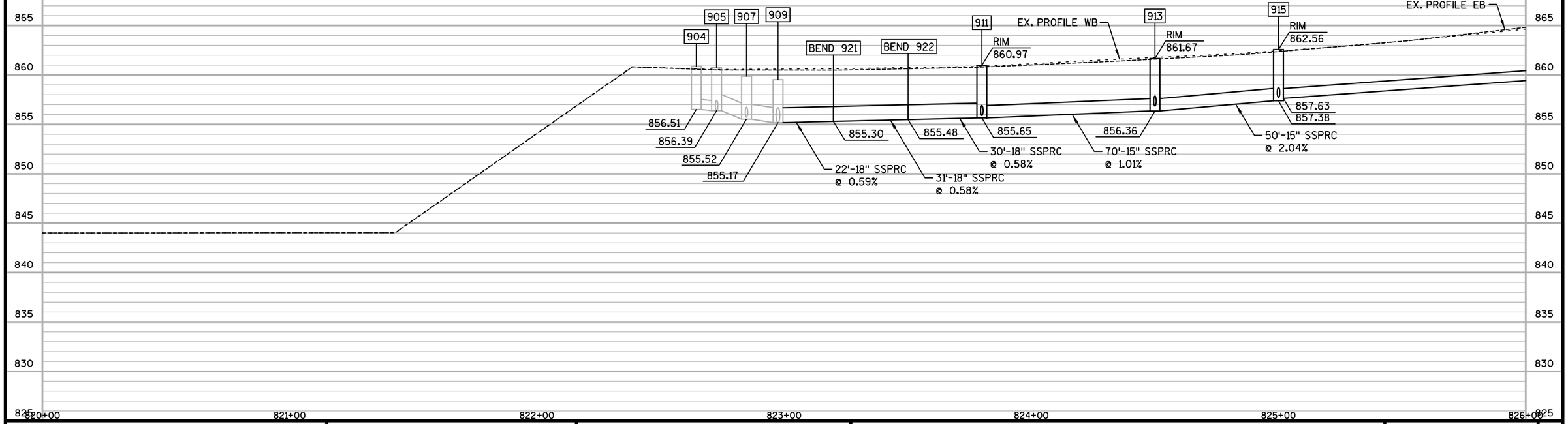
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2

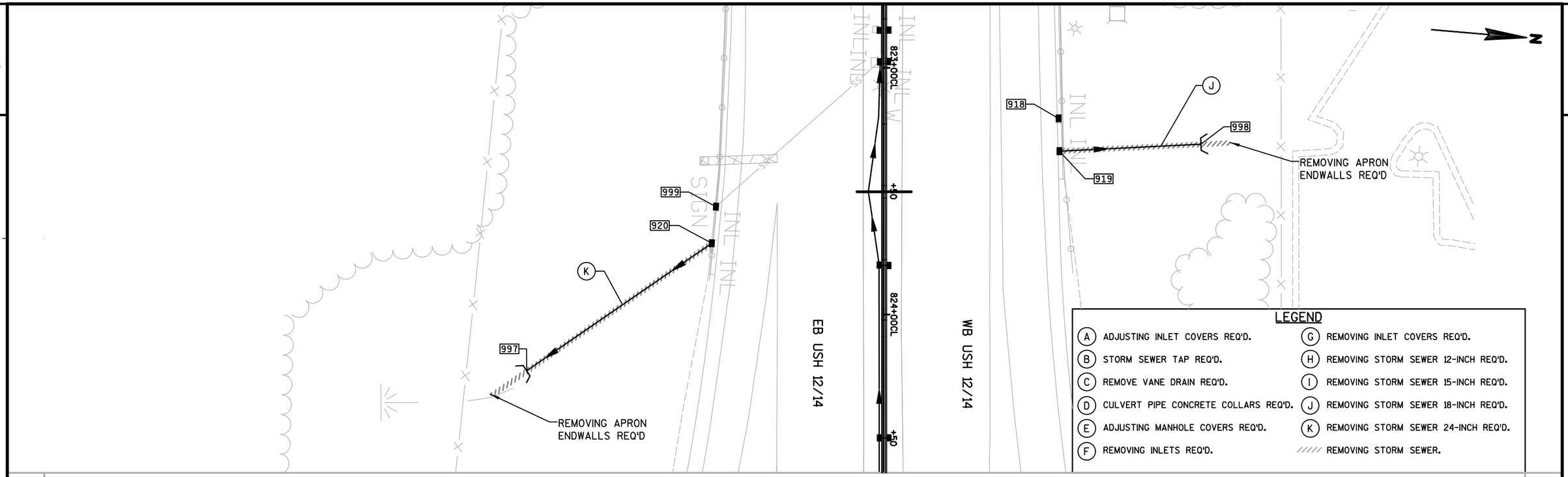


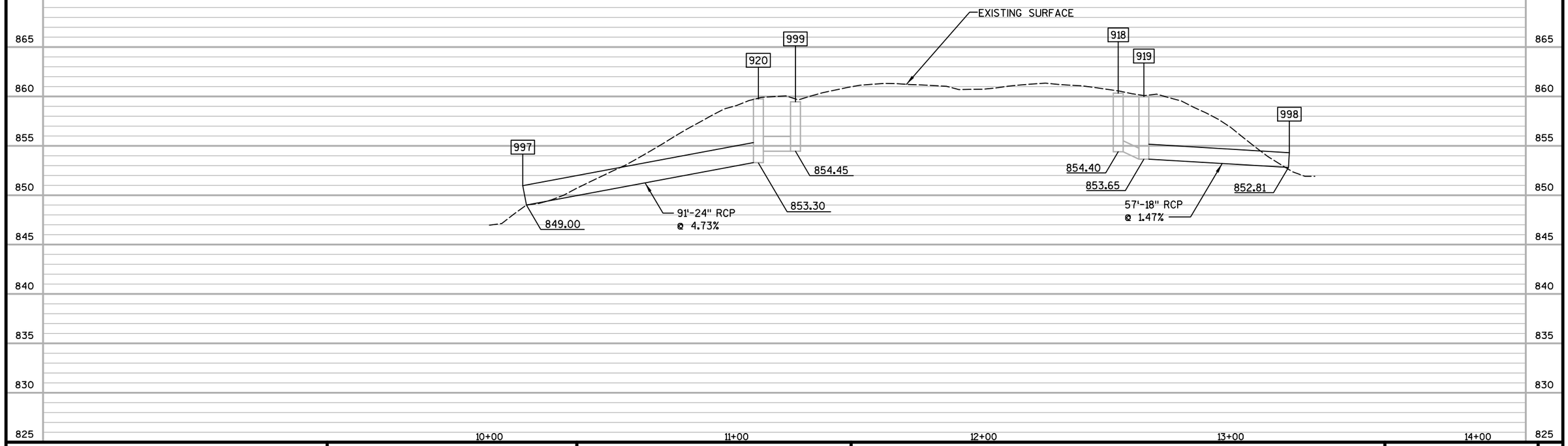
LEGEND

(A)	ADJUSTING INLET COVERS REQ'D.	(G)	REMOVING INLET COVERS REQ'D.
(B)	STORM SEWER TAP REQ'D.	(H)	REMOVING STORM SEWER 12-INCH REQ'D.
(C)	REMOVE VANE DRAIN REQ'D.	(I)	REMOVING STORM SEWER 15-INCH REQ'D.
(D)	CULVERT PIPE CONCRETE COLLARS REQ'D.	(J)	REMOVING STORM SEWER 18-INCH REQ'D.
(E)	ADJUSTING MANHOLE COVERS REQ'D.	(K)	REMOVING STORM SEWER 24-INCH REQ'D.
(F)	REMOVING INLETS REQ'D.	//////	REMOVING STORM SEWER.

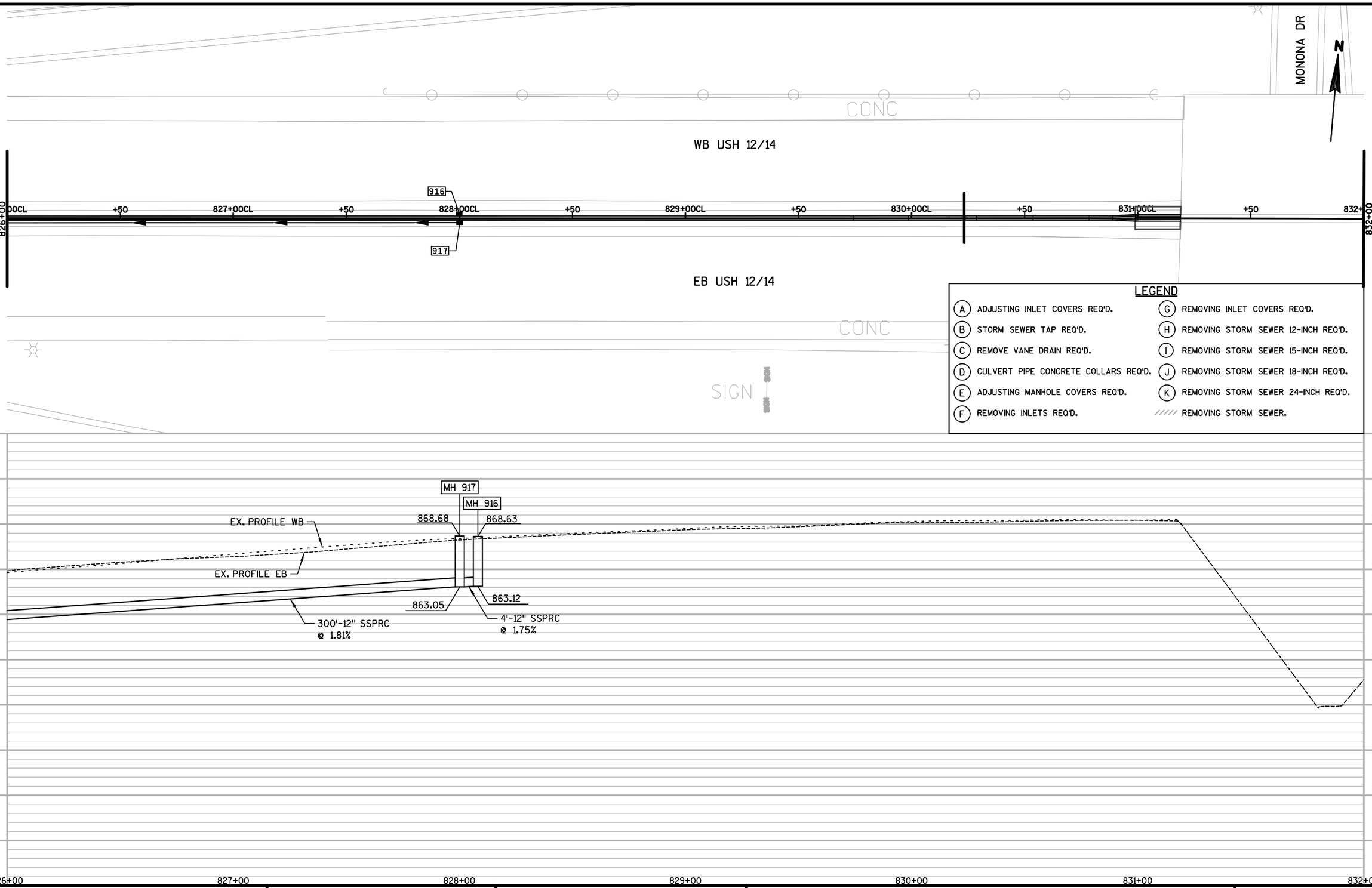


PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

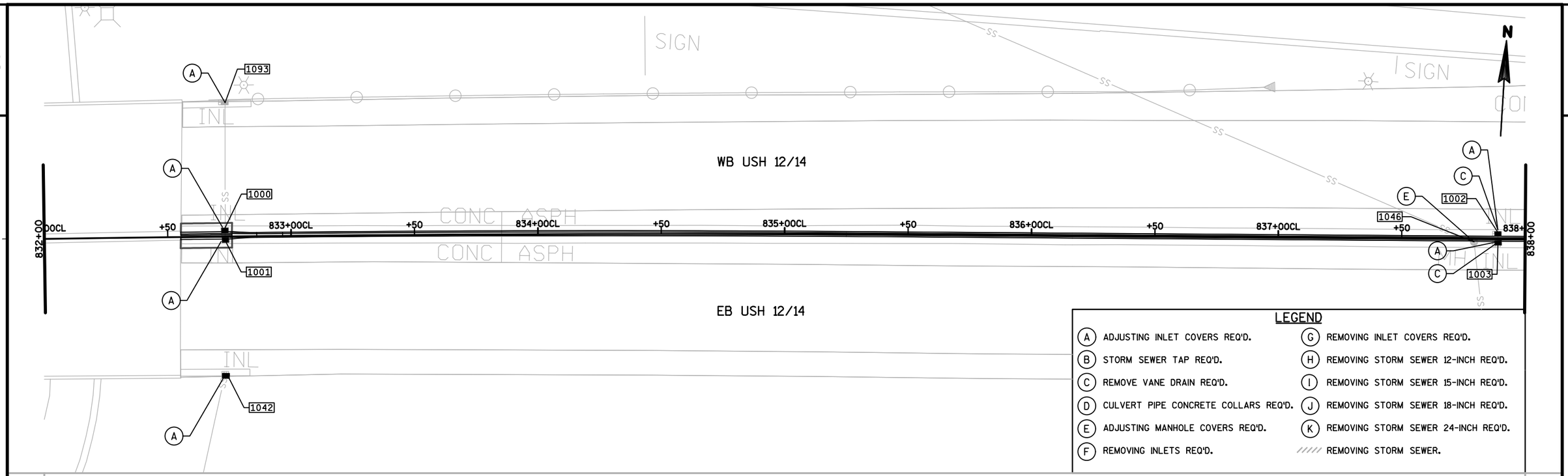




PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E



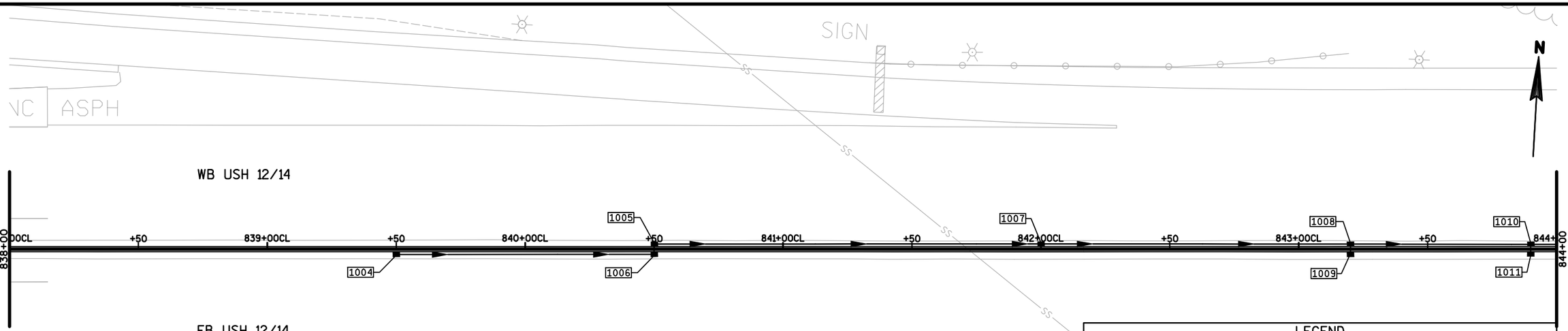
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E



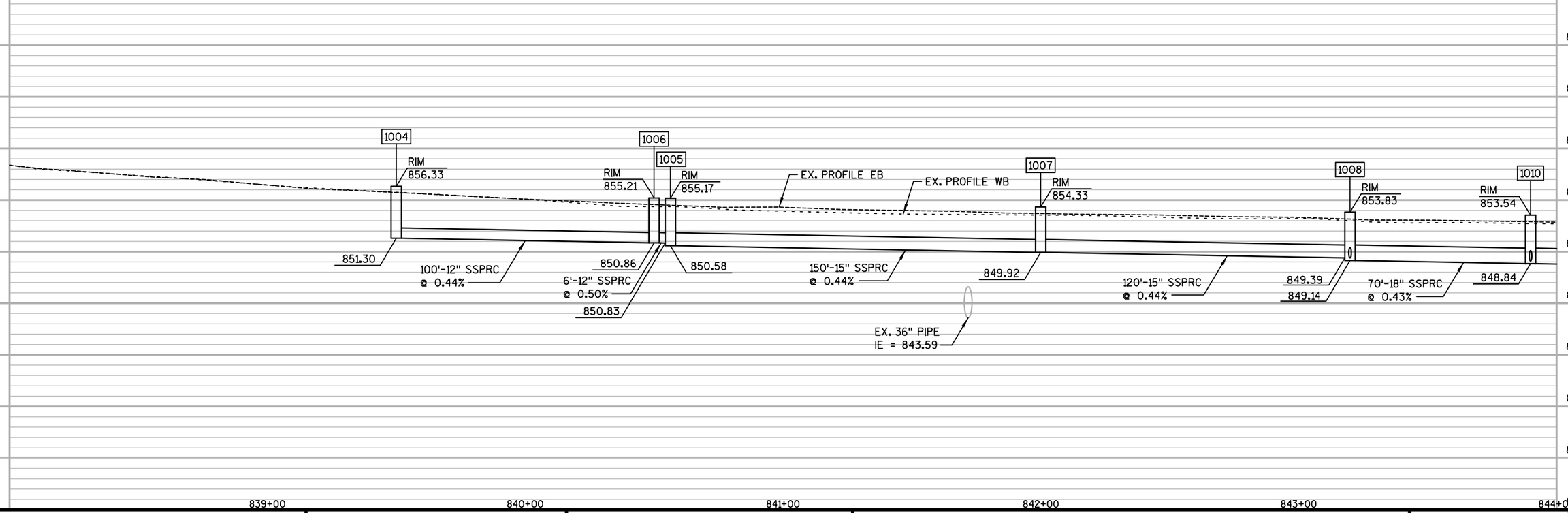


PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2

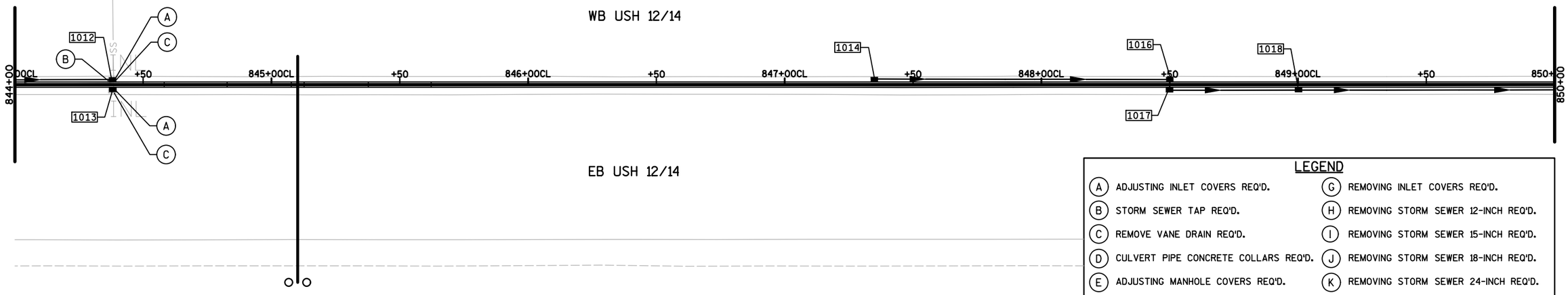


LEGEND	
(A) ADJUSTING INLET COVERS REQ'D.	(G) REMOVING INLET COVERS REQ'D.
(B) STORM SEWER TAP REQ'D.	(H) REMOVING STORM SEWER 12-INCH REQ'D.
(C) REMOVE VANE DRAIN REQ'D.	(I) REMOVING STORM SEWER 15-INCH REQ'D.
(D) CULVERT PIPE CONCRETE COLLARS REQ'D.	(J) REMOVING STORM SEWER 18-INCH REQ'D.
(E) ADJUSTING MANHOLE COVERS REQ'D.	(K) REMOVING STORM SEWER 24-INCH REQ'D.
(F) REMOVING INLETS REQ'D.	////// REMOVING STORM SEWER.



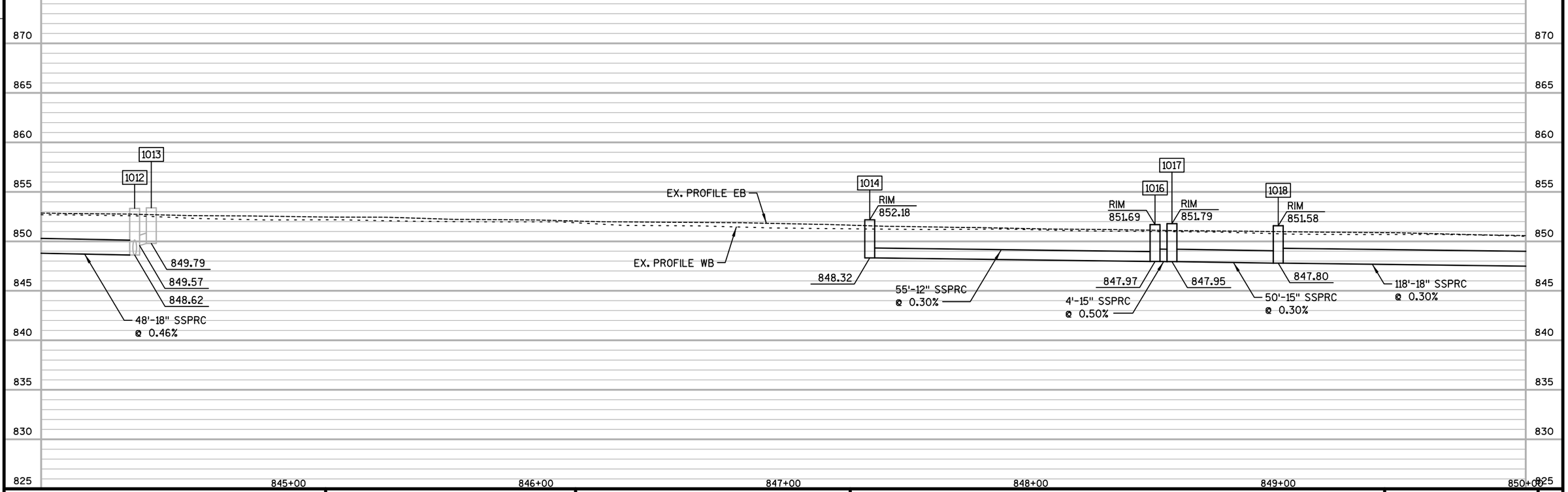
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2

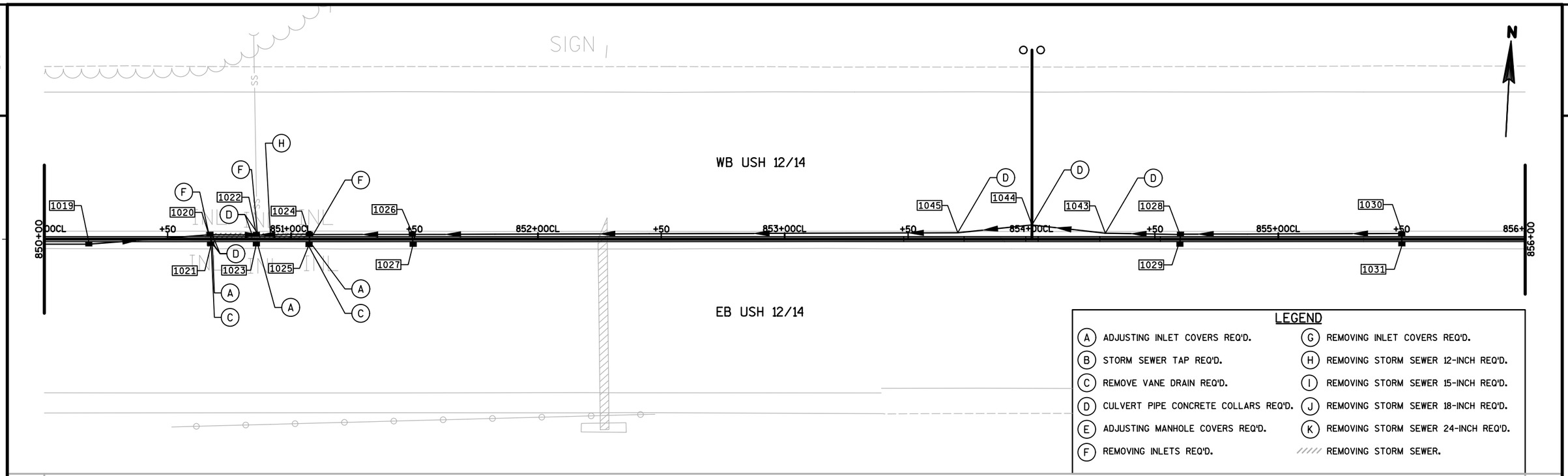


LEGEND

(A)	ADJUSTING INLET COVERS REQ'D.	(G)	REMOVING INLET COVERS REQ'D.
(B)	STORM SEWER TAP REQ'D.	(H)	REMOVING STORM SEWER 12-INCH REQ'D.
(C)	REMOVE VANE DRAIN REQ'D.	(I)	REMOVING STORM SEWER 15-INCH REQ'D.
(D)	CULVERT PIPE CONCRETE COLLARS REQ'D.	(J)	REMOVING STORM SEWER 18-INCH REQ'D.
(E)	ADJUSTING MANHOLE COVERS REQ'D.	(K)	REMOVING STORM SEWER 24-INCH REQ'D.
(F)	REMOVING INLETS REQ'D.	//////	REMOVING STORM SEWER.

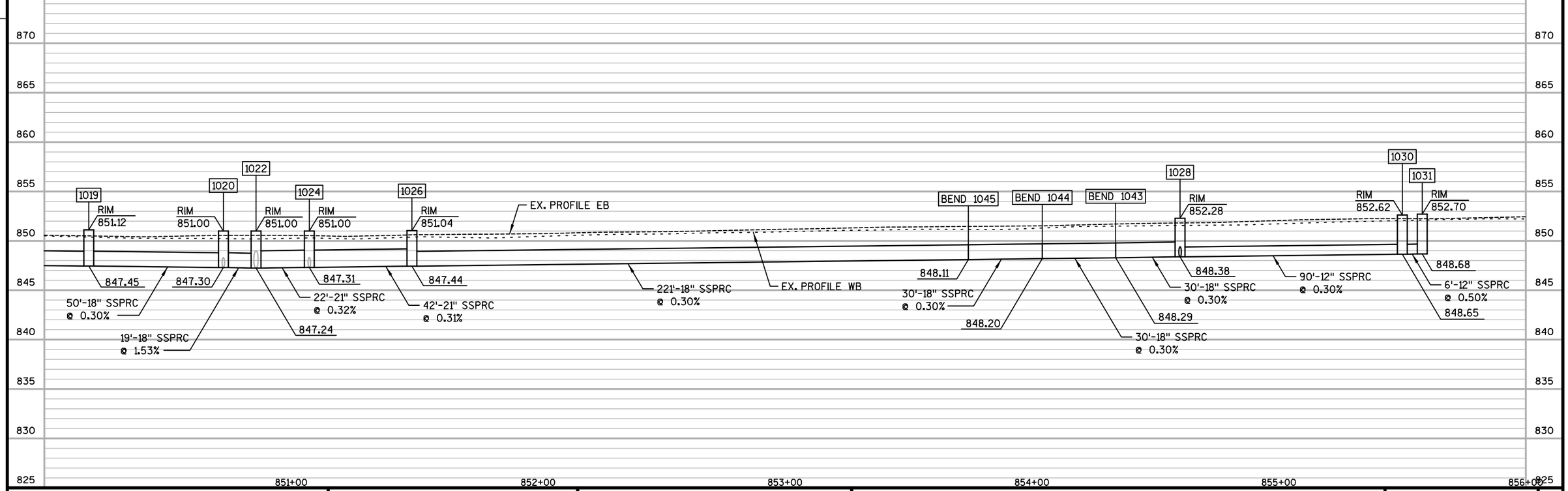


PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E



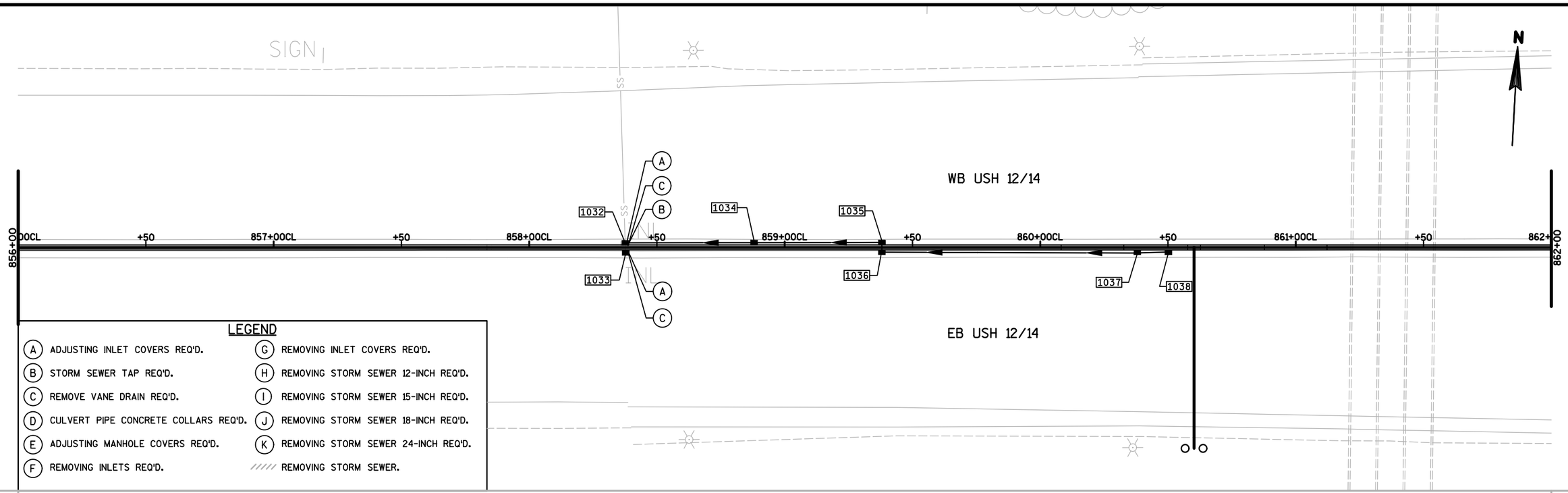
LEGEND

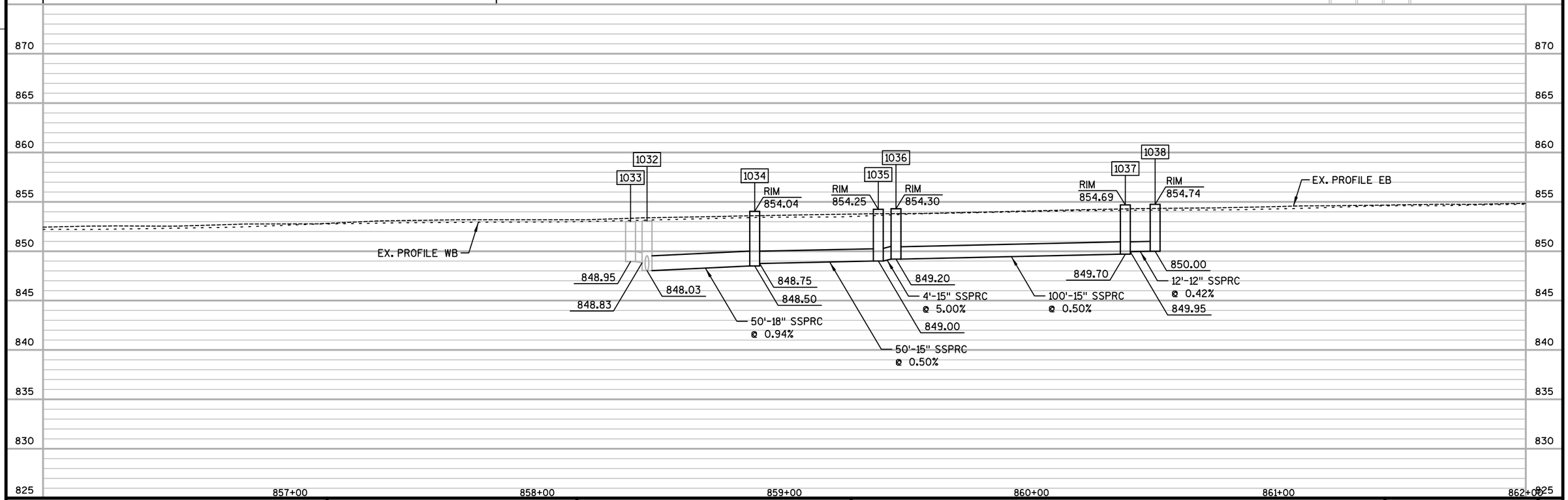
A	ADJUSTING INLET COVERS REQ'D.	G	REMOVING INLET COVERS REQ'D.
B	STORM SEWER TAP REQ'D.	H	REMOVING STORM SEWER 12-INCH REQ'D.
C	REMOVE VANE DRAIN REQ'D.	I	REMOVING STORM SEWER 15-INCH REQ'D.
D	CULVERT PIPE CONCRETE COLLARS REQ'D.	J	REMOVING STORM SEWER 18-INCH REQ'D.
E	ADJUSTING MANHOLE COVERS REQ'D.	K	REMOVING STORM SEWER 24-INCH REQ'D.
F	REMOVING INLETS REQ'D.	/////	REMOVING STORM SEWER.



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

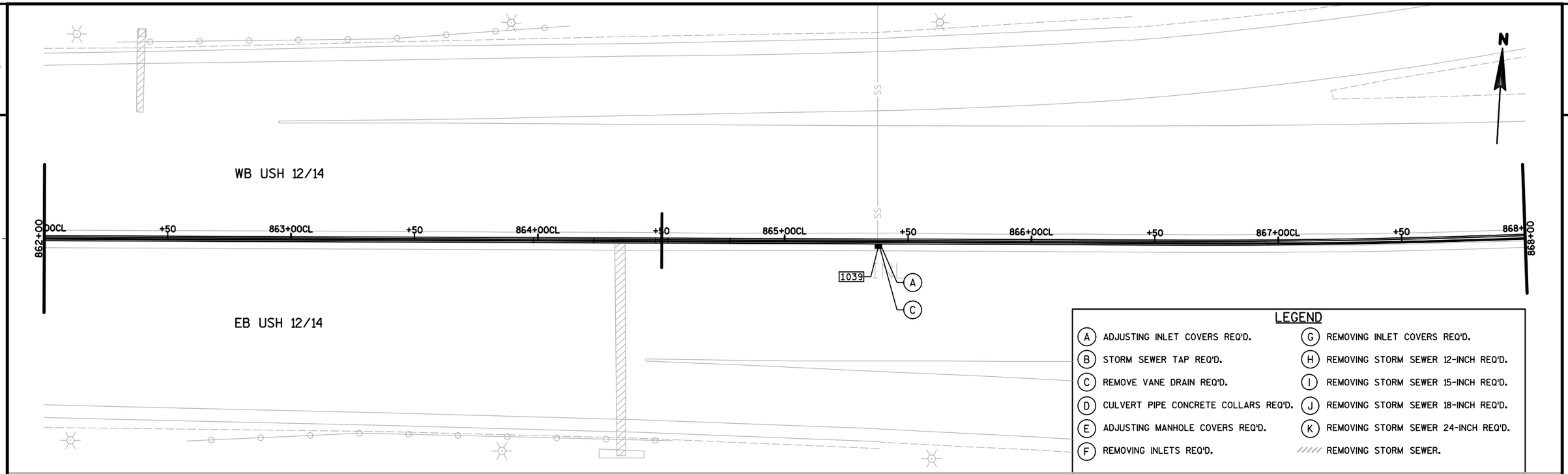
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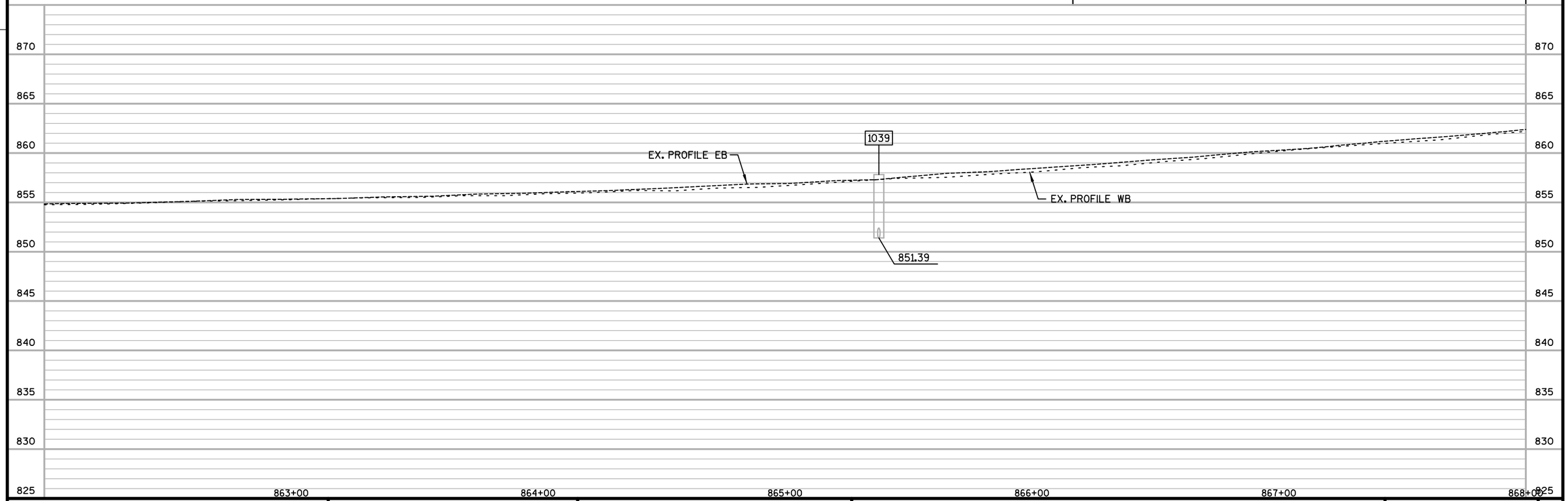




PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

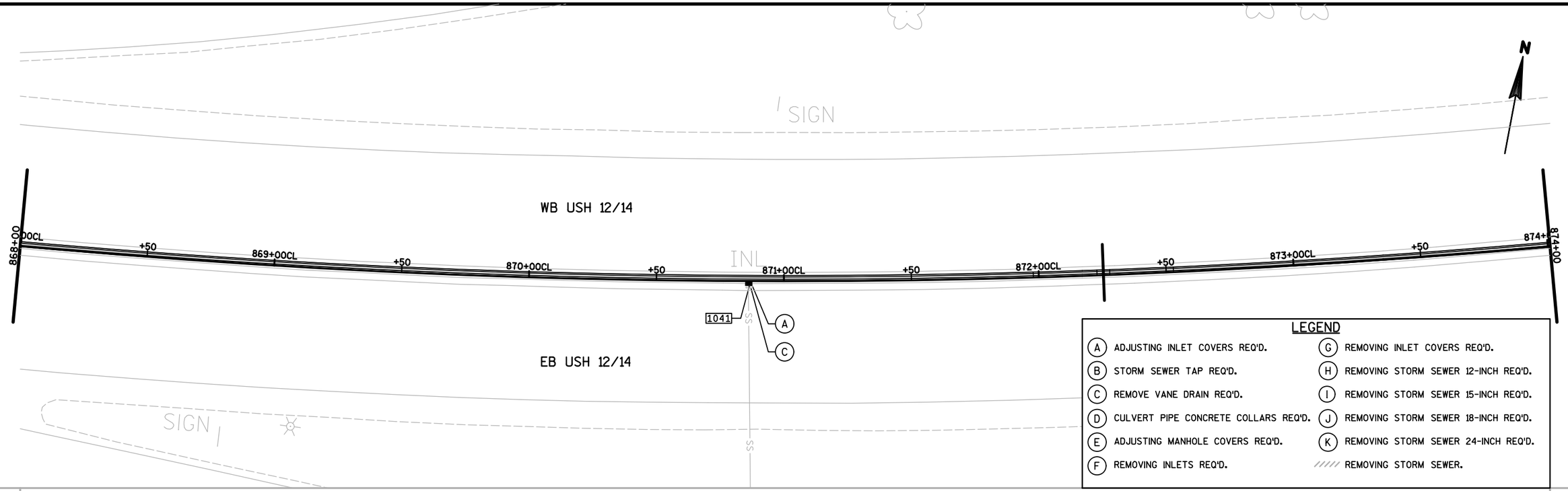
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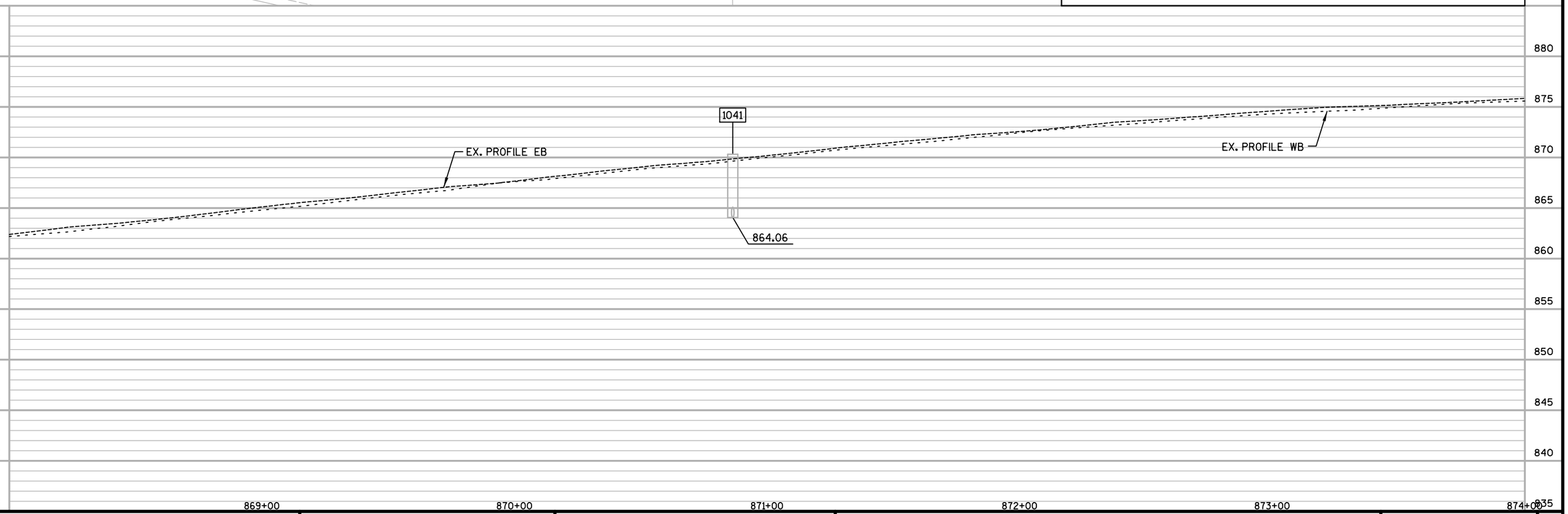
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2



LEGEND

(A) ADJUSTING INLET COVERS REQ'D.	(G) REMOVING INLET COVERS REQ'D.
(B) STORM SEWER TAP REQ'D.	(H) REMOVING STORM SEWER 12-INCH REQ'D.
(C) REMOVE VANE DRAIN REQ'D.	(I) REMOVING STORM SEWER 15-INCH REQ'D.
(D) CULVERT PIPE CONCRETE COLLARS REQ'D.	(J) REMOVING STORM SEWER 18-INCH REQ'D.
(E) ADJUSTING MANHOLE COVERS REQ'D.	(K) REMOVING STORM SEWER 24-INCH REQ'D.
(F) REMOVING INLETS REQ'D.	////// REMOVING STORM SEWER.



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2

WB USH 12/14

EB USH 12/14

874+00 | 874+00CL | +50 | 875+00CL | +50 | 876+00CL | +50 | 877+00CL | +50 | 878+00CL | +50 | 879+00CL | +50 | 880+00

880+00

N

INL

1193

1100

1101

1124

A

US-51

LEGEND

(A)	ADJUSTING INLET COVERS REQ'D.	(G)	REMOVING INLET COVERS REQ'D.
(B)	STORM SEWER TAP REQ'D.	(H)	REMOVING STORM SEWER 12-INCH REQ'D.
(C)	REMOVE VANE DRAIN REQ'D.	(I)	REMOVING STORM SEWER 15-INCH REQ'D.
(D)	CULVERT PIPE CONCRETE COLLARS REQ'D.	(J)	REMOVING STORM SEWER 18-INCH REQ'D.
(E)	ADJUSTING MANHOLE COVERS REQ'D.	(K)	REMOVING STORM SEWER 24-INCH REQ'D.
(F)	REMOVING INLETS REQ'D.	//////	REMOVING STORM SEWER.

880
875
870
865
860
855
850
845
840
835

EX. PROFILE EB

EX. PROFILE WB

1101
1100

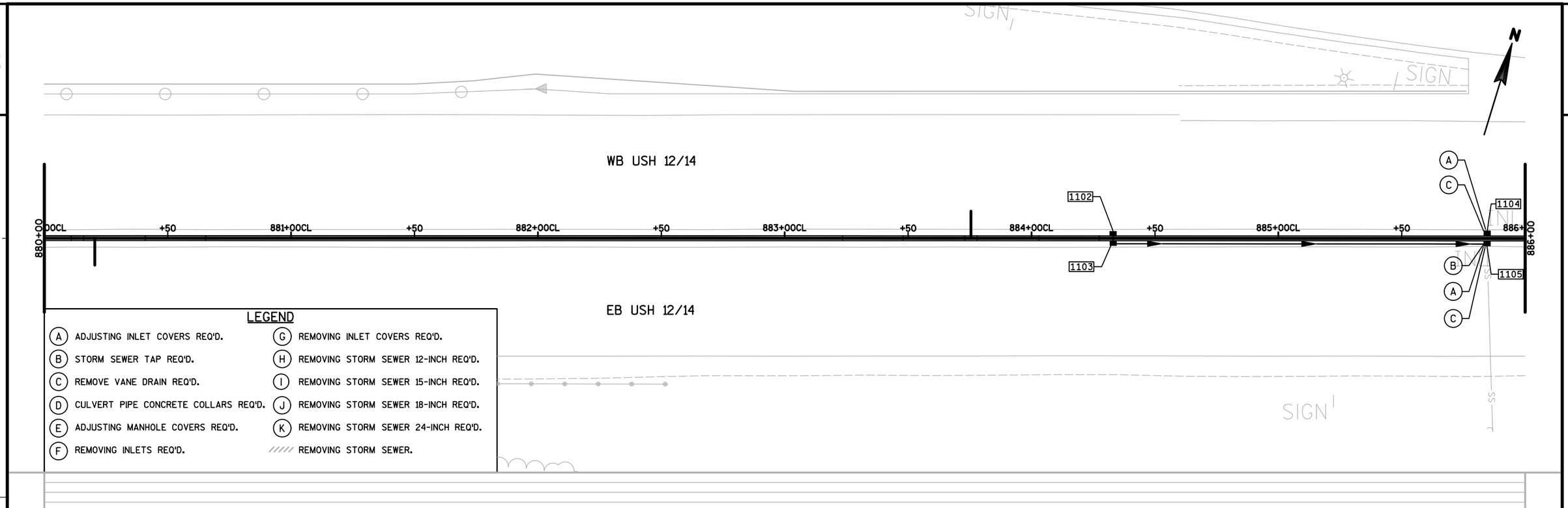
869.72
869.43
869.00

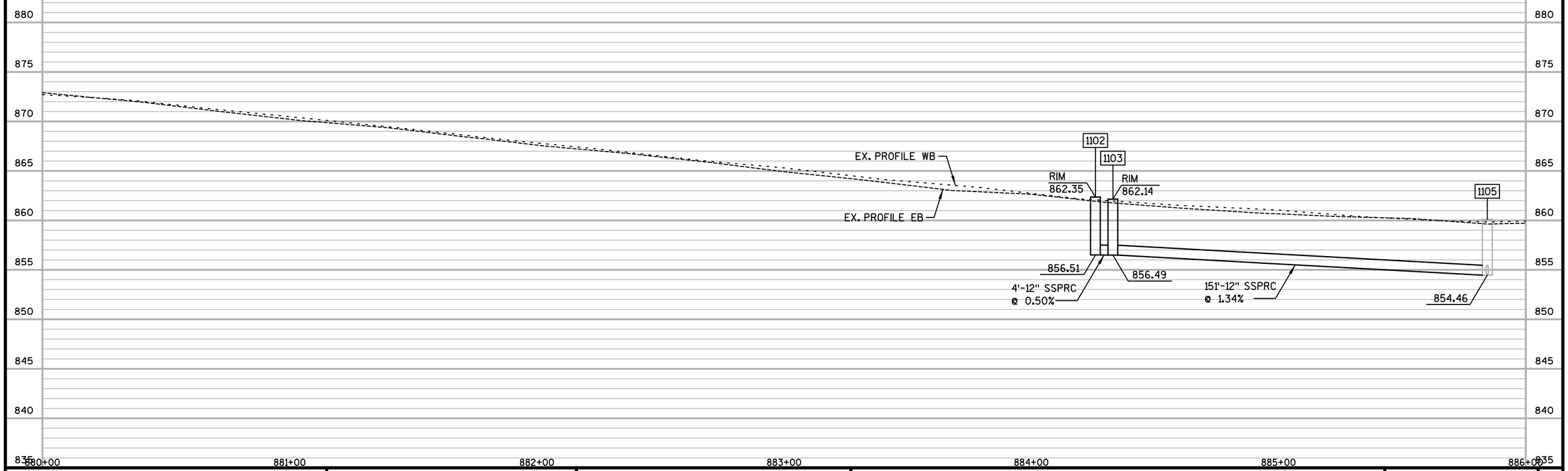
874+00 | 875+00 | 876+00 | 877+00 | 878+00 | 879+00 | 880+00

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

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2





PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2

WB USH 12/14

EB USH 12/14

886+00CL +50 887+00CL +50 888+00CL +50 889+00CL +50 890+00CL +50 891+00CL +50 892+00

LEGEND

A	ADJUSTING INLET COVERS REQ'D.	G	REMOVING INLET COVERS REQ'D.
B	STORM SEWER TAP REQ'D.	H	REMOVING STORM SEWER 12-INCH REQ'D.
C	REMOVE VANE DRAIN REQ'D.	I	REMOVING STORM SEWER 15-INCH REQ'D.
D	CULVERT PIPE CONCRETE COLLARS REQ'D.	J	REMOVING STORM SEWER 18-INCH REQ'D.
E	ADJUSTING MANHOLE COVERS REQ'D.	K	REMOVING STORM SEWER 24-INCH REQ'D.
F	REMOVING INLETS REQ'D.	/////	REMOVING STORM SEWER.

1106 1107 1108 1109 1110 1111 1112 1115 1125 1126 1127

RIM 859.49 RIM 859.63 RIM 859.39

EX. PROFILE EB EX. PROFILE WB

855.11 854.59 854.15 853.47 853.10 852.64 855.21

6'-12" SSPRC @ 8.67%

100'-12" SSPRC @ 0.44%

155'-12" SSPRC @ 0.44%

36'-12" SSPRC @ 1.03%

BEND 1125

34'-12" SSPRC @ 1.06%

870 865 860 855 850 845 840 835 830 825

886+00 887+00 888+00 889+00 890+00 891+00 892+00

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

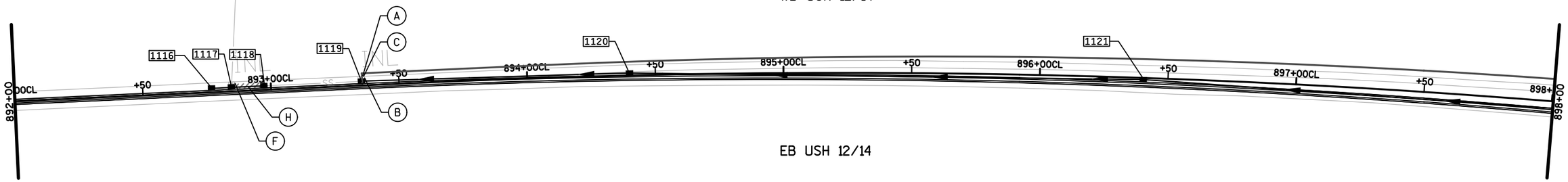
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LEGEND

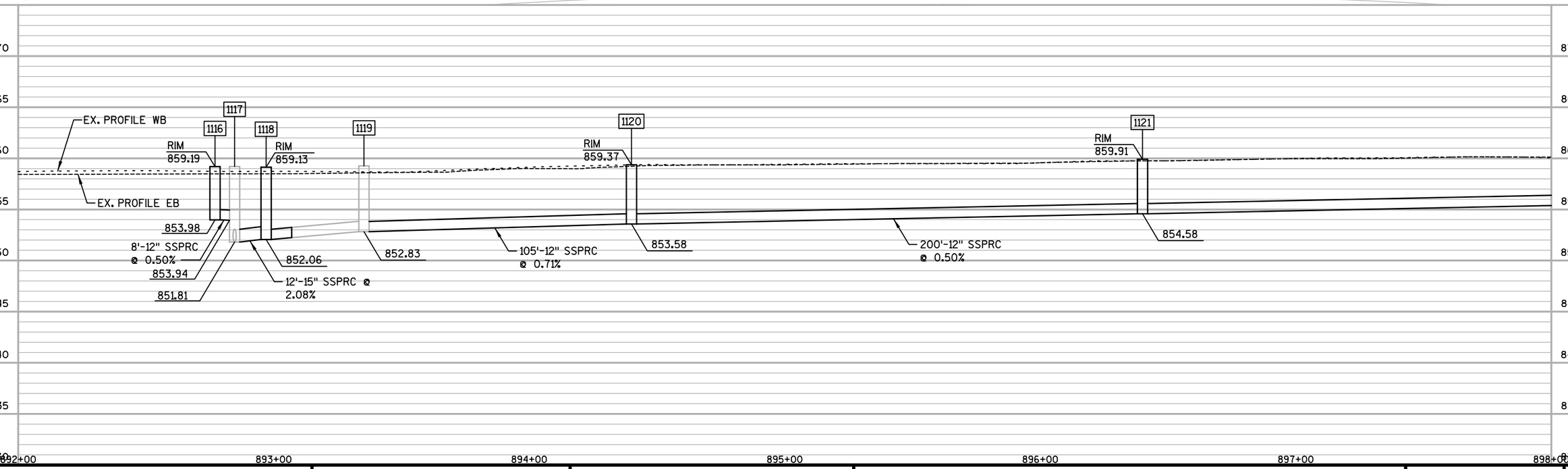
- (A) ADJUSTING INLET COVERS REQ'D.
- (B) STORM SEWER TAP REQ'D.
- (C) REMOVE VANE DRAIN REQ'D.
- (D) CULVERT PIPE CONCRETE COLLARS REQ'D.
- (E) ADJUSTING MANHOLE COVERS REQ'D.
- (F) REMOVING INLETS REQ'D.
- (G) REMOVING INLET COVERS REQ'D.
- (H) REMOVING STORM SEWER 12-INCH REQ'D.
- (I) REMOVING STORM SEWER 15-INCH REQ'D.
- (J) REMOVING STORM SEWER 18-INCH REQ'D.
- (K) REMOVING STORM SEWER 24-INCH REQ'D.
- ///// REMOVING STORM SEWER.

N

WB USH 12/14

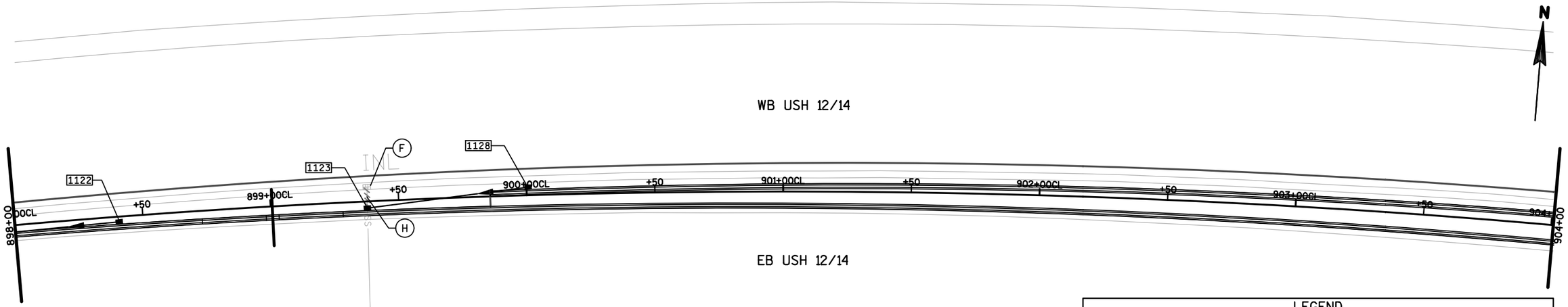


EB USH 12/14



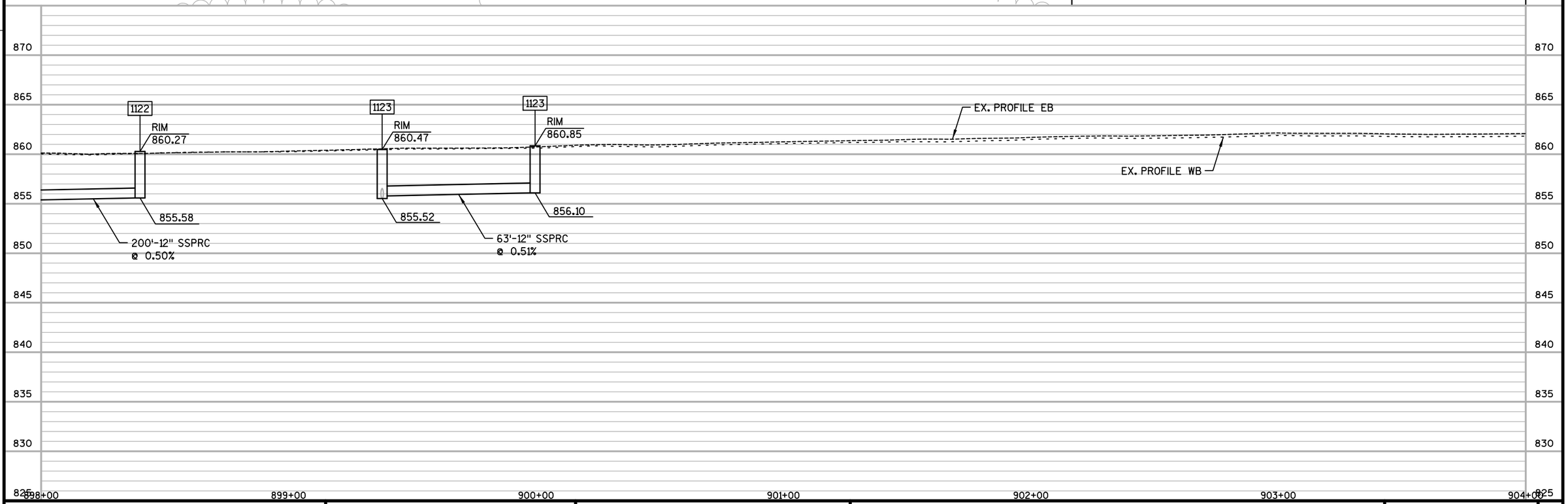
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2



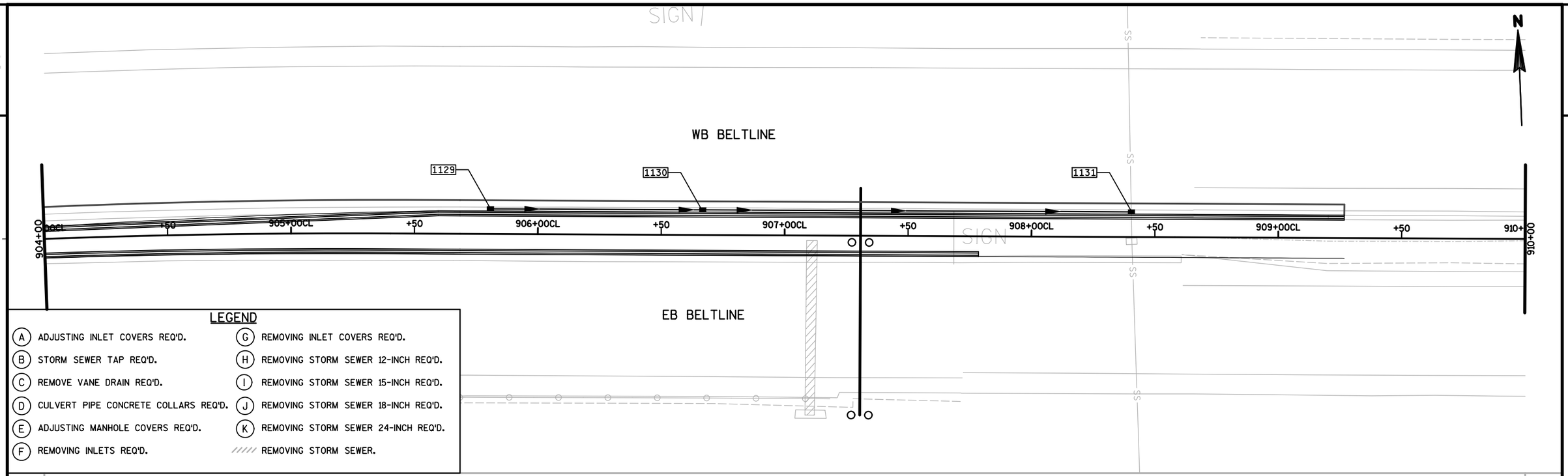
LEGEND

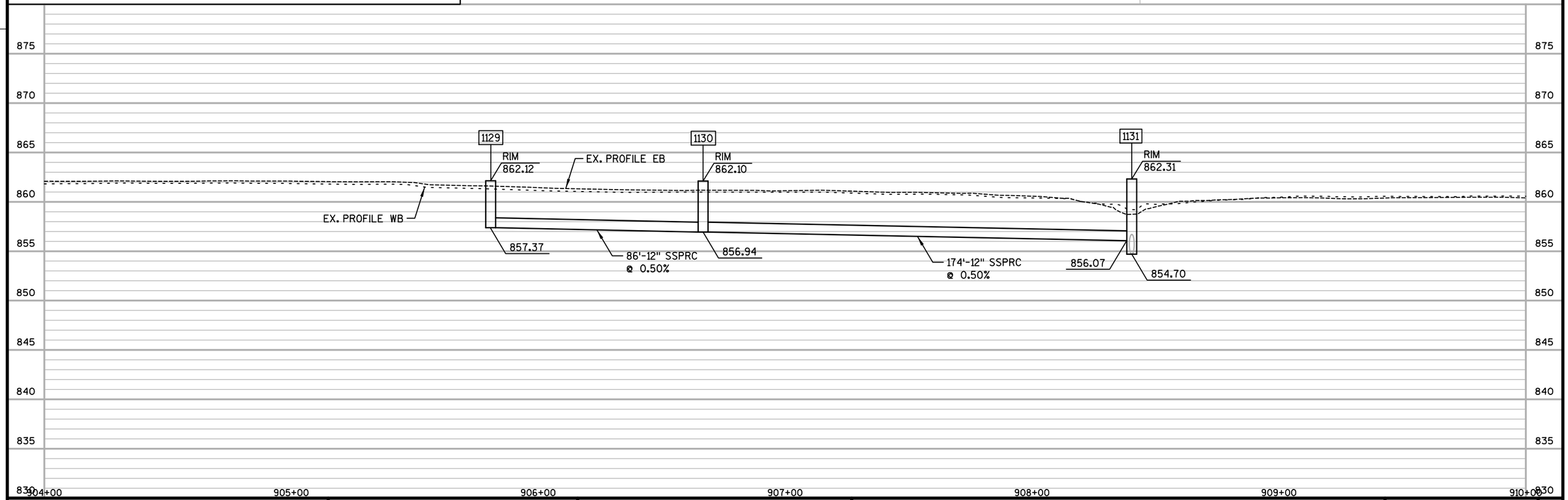
(A) ADJUSTING INLET COVERS REQ'D.	(G) REMOVING INLET COVERS REQ'D.
(B) STORM SEWER TAP REQ'D.	(H) REMOVING STORM SEWER 12-INCH REQ'D.
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(D) CULVERT PIPE CONCRETE COLLARS REQ'D.	(J) REMOVING STORM SEWER 18-INCH REQ'D.
(E) ADJUSTING MANHOLE COVERS REQ'D.	(K) REMOVING STORM SEWER 24-INCH REQ'D.
(F) REMOVING INLETS REQ'D.	///// REMOVING STORM SEWER.



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

2





PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	STORM SEWER	SHEET	E

STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE	NEW COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE					REMARKS
												SIZE (IN)	INLET ELEV.	DISCHARGE ELEV.	LENGTH (FT)	SLOPE (%)	
1	458+24.89	2.6'LT	30.1	2						0.00	-995.93	12	995.93	995.12	30	2.70%	CULVERT PIPE CONCRETE COLLARS REQ'D
2	458+54.82	6.0'LT	30.3	3						0.00	-995.12	12	995.12	994.31	30	2.70%	CULVERT PIPE CONCRETE COLLARS REQ'D
3	458+84.88	2.6'LT	-	-						0.00	-994.31	-	994.31	-	-	-	CULVERT PIPE CONCRETE COLLARS REQ'D
4	467+31.95	4.3'RT	26.6	5						0.00	-996.25	12	996.25	996.13	27	0.44%	CULVERT PIPE CONCRETE COLLARS REQ'D
5	467+57.85	10.5'RT	24.7	6						0.00	-996.13	12	996.13	996.00	25	0.52%	CULVERT PIPE CONCRETE COLLARS REQ'D
6	467+81.91	4.7'RT	-	-						0.00	-996.00	-	996.00	-	-	-	CULVERT PIPE CONCRETE COLLARS REQ'D
100	516+04.54	2.0'LT	-	-	-	V	-	-	971.73	-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
101	516+04.21	2.4'RT	-	-	-	V	-	-	971.72	-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
102	521+01.53	1.8'LT	-	-	-	V	-	-	952.54	-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
103	521+01.20	2.4'RT	-	-	-	V	-	-	952.46	-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
104	524+81.14	2.0'LT	-	-	-	V	-	-	937.92	-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
105	524+80.95	2.1'RT	-	-	-	V	-	-	937.72	-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
106	529+99.93	3.8'LT	5.1	107	2X2-FT	V	-	-	923.00	921.75	2.26	12	919.49	919.46	5	0.60%	
107	530+00.01	1.3'RT	20.1	109	2X2-FT	V	-	-	924.15	922.90	3.44	12	919.46	919.36	20	0.50%	
108	530+20.00	3.4'LT	5.8	109	2X2-FT	V	-	-	922.83	921.58	2.19	12	919.39	919.36	6	0.50%	
109	530+20.07	2.4'RT	43.3	111	3-FT	V	-	-	923.77	922.52	3.16	15	919.36	919.15	43	0.49%	
110	530+63.34	2.3'LT	-	-	-	V	-	-	922.87	-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D; STORM SEWER TAP REQ'D
111	530+63.42	2.6'RT	89.3	113	3-FT	V	-	-	923.70	922.45	3.30	15	919.15	918.26	89	1.00%	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D, CULVERT PIPE CONCRETE COLLARS REQ'D
112	530+73.34	2.2'LT	10.0	110	2X2-FT	V	-	-	922.91	921.66	1.62	12	920.04	920.00	10	0.40%	
113	531+52.71	1.8'RT	10.2	115	3-FT	V	-	-	923.05	921.80	3.54	15	918.26	918.06	10	2.00%	
114	531+62.84	2.3'LT	-	-	-	V	-	-	923.27	922.02	12.02	24	910.00	-	-	-	REMOVING INLET COVERS REQ'D
115	531+62.90	2.6'RT	-	-	-	V	-	-	922.98	921.73	10.32	24	911.41	-	-	-	REMOVING INLET COVERS REQ'D, STORM SEWER TAP REQ'D (2)
116	531+72.90	2.6'RT	10.0	115	2X2-FT	V	-	-	922.94	921.69	3.65	12	918.04	917.99	10	0.50%	
117	531+99.93	2.7'LT	4.3	118	2X2-FT	V	-	-	923.43	922.18	3.81	12	918.37	918.17	4	5.00%	
118	532+00.00	1.7'RT	27.1	116	2X2-FT	V	-	-	923.05	921.80	3.63	12	918.17	918.04	27	0.48%	
119	528+99.96	68.6'RT	120.1	120	2X2-FT	V	-	-		-1.25	-921.65	12	920.40	919.87	120	0.44%	
120	530+20.01	69.3'RT	19.9	121	2X2-FT	V	-	-		-1.25	-921.12	12	919.87	919.65	20	1.10%	
121	530+39.91	69.2'RT	10.2	195	2X2-FT	V	-	-		-1.25	-920.90	12	919.65	919.48	10	1.70%	
122	516+10.49	69.5'RT			-		-	-		0.00					-		ADJUSTING INLET COVERS REQ'D
123	518+92.86	83.1'RT			-		-	-							-		ADJUSTING INLET COVERS REQ'D
124	521+92.77	79.6'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
125	522+96.71	57.7'LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
126	524+77.64	79.8'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
127	526+96.82	57.8'LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
128	529+90.25	67.5'LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
129	530+40.61	70.2'LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
130	530+96.71	73.6'LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
131	532+47.49	70.0'RT			-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
132	533+97.37	56.9'LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
133	535+48.05	70.1'RT			-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
134	535+00.00	3.0'LT	220.5	137	2X2-FT	V	-	-	925.13	923.88	3.94	12	919.94	918.80	220	0.52%	
136	532+49.91	7.0'LT	50.2	117	-	-	-	-	-	-	-	12	918.64	918.37	50	0.54%	CULVERT PIPE CONCRETE COLLARS REQ'D
137	532+79.52	2.7'LT	29.9	136	-	-	-	-	-	-	-	12	918.80	918.64	30	0.53%	CULVERT PIPE CONCRETE COLLARS REQ'D
190	531+64.08	66.6'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING MANHOLE COVERS REQ'D
195	530+50.08	70.2'RT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D, STORM SEWER TAP REQ'D
196	516+05.61	65.7'LT	-	-	-	H	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
200	542+46.41	2.3'LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
201	542+46.11	1.3'RT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
202	546+68.49	2.2'LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
203	546+68.57	1.6'RT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D

STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE	NEW COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS
204	551+45.99	2.1' LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
205	551+45.94	2.5' RT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
206	555+48.49	1.9' LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D; STORM SEWER TAP REQ'D
207	555+48.19	2.2' RT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
208	555+89.97	2.8' LT	-	-	3-FT	V	-	-	896.85	895.60	4.01	15	891.59	-	-	-	
209	555+89.98	1.6' RT	4.4	208	2X2-FT	V	-	-	896.93	895.68	3.68	12	892.00	891.59	4	10.25%	
210	555+97.32	1.9' LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D; STORM SEWER TAP REQ'D
211	555+98.07	2.6' RT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
212	556+09.97	2.7' LT	12.7	210	3-FT	V	-	-	896.90	895.65	3.99	15	891.66	891.52	13	1.08%	
213	556+09.98	1.5' RT	4.2	212	2X2-FT	V	-	-	896.89	895.64	3.53	12	892.11	891.91	4	5.00%	
214	556+49.97	3.1' LT	40.0	212	2X2-FT	V	-	-	897.23	895.98	3.63	12	892.35	891.91	40	1.10%	
215	556+49.98	1.5' RT	4.7	214	2X2-FT	V	-	-	897.22	895.97	3.60	12	892.37	892.35	5	0.40%	
216	561+14.44	2.1' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
217	561+13.84	2.6' RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
218	547+01.49	69.6' LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
219	549+01.42	69.6' LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
220	552+51.58	74.2' LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
221	560+97.16	57.3' RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
222	554+79.98	2.4' LT	68.5	206	2X2-FT	V	-	-	897.78	896.53	3.15	12	893.38	893.08	69	0.43%	
299	561+25.85	57.4' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
300	563+14.97	2.2' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
301	563+14.96	1.1' RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
302	565+96.05	0.9' LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
303	565+95.97	1.7' RT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
304	571+48.97	3.0' LT	37.0	306	3-FT	V	-	-	887.52	886.27	2.24	15	884.03	883.92	37	0.30%	
305	571+48.98	1.9' RT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
306	571+85.97	2.5' LT	9.0	308	3-FT	V	-	-	887.51	886.26	2.34	15	883.92	883.77	9	1.67%	
307	571+85.98	1.9' RT	4.4	306	2X2-FT	V	-	-	887.61	886.36	2.41	12	883.95	883.93	4	0.50%	
308	571+94.93	2.4' LT	76.5	396	-	V	4-FT	-	887.50	886.25	2.48	18	883.77	880.82	77	3.83%	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D, CULVERT PIPE CONCRETE COLLARS REQ'D
309	571+95.19	2.6' RT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
310	572+05.97	2.6' LT	11.0	308	3-FT	V	-	-	887.57	886.32	2.50	15	883.82	883.77	11	0.45%	
311	572+05.98	1.9' RT	4.6	310	2X2-FT	V	-	-	887.69	886.44	2.60	12	883.84	883.82	5	0.40%	
312	572+45.97	2.9' LT	40.0	310	3-FT	V	-	-	887.82	886.57	2.58	15	883.99	883.82	40	0.42%	
313	572+45.98	1.8' RT	4.7	312	2X2-FT	V	-	-	888.01	886.76	2.74	12	884.02	883.99	5	0.60%	
314	572+99.97	2.5' LT	54.0	312	3-FT	V	-	-	888.15	886.90	2.67	15	884.23	883.99	54	0.44%	
315	572+99.98	1.7' RT	4.2	314	2X2-FT	V	-	-	888.46	887.21	2.96	12	884.25	884.23	4	0.50%	
316	573+99.97	3.0' LT	100.0	314	3-FT	V	-	-	888.99	887.74	3.07	15	884.67	884.23	100	0.44%	
317	573+99.98	1.8' RT	4.9	316	2X2-FT	V	-	-	889.44	888.19	3.50	12	884.69	884.67	5	0.40%	
318	576+04.97	2.7' LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
319	576+04.97	1.6' RT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
320	581+48.97	3.0' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
321	581+56.10	3.2' RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
322	584+95.97	2.1' LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D; STORM SEWER TAP REQ'D
323	584+95.85	2.6' RT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
324	563+15.03	56.2' RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
325	575+51.94	58.6' RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
326	576+59.43	57.6' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
327	568+99.97	2.7' LT	249.0	304	2X2-FT	V	-	-	890.36	889.11	3.49	12	885.62	884.03	249	0.64%	
328	568+99.97	1.6' RT	4.3	327	2X2-FT	V	-	-	890.50	889.25	3.59	12	885.66	885.62	4	1.00%	
329	586+99.97	3.1' LT	204.0	322	2X2-FT	V	-	-	900.53	899.28	2.68	12	896.60	895.70	204	0.44%	

STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE	NEW COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS
330	586+99.97	3.6' RT	6.7	329	2X2-FT	V	-	-	900.95	899.70	3.07	12	896.63	896.60	7	0.43%	
388	569+43.32	144.9' LT	-	-	-	H	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
389	569+37.67	163.7' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	SALVAGING INLET COVERS REQ'D
390	572+26.67	196.3' LT	-	-	-	H	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
391	572+54.00	147.7' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	SALVAGING INLET COVERS REQ'D
392	572+78.41	176.8' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	SALVAGING INLET COVERS REQ'D
393	584+95.66	61.0' LT	9.0	399	-	-	-	-	-	-	-	15	887.06	886.43	9	7.00%	CULVERT PIPE CONCRETE COLLARS REQ'D
394	563+36.97	58.4' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
396	571+96.07	78.9' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	STORM SEWER TAP REQ'D (IF NECESSARY)
397	576+68.99	68.7' LT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
398	581+01.58	71.5' RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
399	584+95.82	70.0' LT	-	-	2X2-FT	-	-	-		0.00	-894.57	12	894.57		-	-	SALVAGING INLET COVERS REQ'D (FROM 584+95.66 61.0' LT)
400	598+24.97	2.7' LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
401	598+24.98	1.3' RT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
402	602+75.67	1.8' LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
403	602+75.68	2.3' RT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
404	603+85.64	3.2' LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
405	603+85.09	3.4' RT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
406	603+88.46	3.6' LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
407	603+88.46	3.6' RT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
408	605+91.97	1.6' LT	4.0	409	2X2-FT	V	-	-	889.13	887.88	2.83	12	885.05	885.03	4	0.50%	
409	605+91.96	2.4' RT	18.3	411	2X2-FT	V	-	-	889.20	887.95	2.92	12	885.03	884.95	18	0.44%	
410	606+09.65	2.7' LT	6.5	411	2X2-FT	V	-	-	889.17	MANUAL	*VALUE!	12	885.17	885.14	6	0.50%	SALVAGING INLET COVERS REQ'D
411	606+10.25	3.7' RT	11.8	413	3-FT	V	-	-	889.16	MANUAL	*VALUE!	15	884.95	884.83	12	1.00%	SALVAGING INLET COVERS REQ'D
412	606+21.97	1.7' LT	3.9	413	2X2-FT	V	-	-	889.19	887.94	3.08	12	884.86	884.83	4	0.75%	
413	606+21.99	2.2' RT	65.9	414	3-FT	V	-	-	889.16	887.91	3.08	15	884.83	884.14	66	1.05%	
414	606+87.88	2.5' RT	-	-	4-FT	V	-	-	889.26	888.01	3.87	24	884.14	-	-	-	
415	607+50.00	2.0' RT	62.1	414	2X2-FT	V	-	-	889.37	888.12	3.70	12	884.42	884.14	62	0.45%	
418	608+87.90	2.4' LT	-	-	4-FT	V	-	-	889.49	888.24	4.48	24	883.76	-	-	-	
419	609+93.97	2.0' LT	106.1	418	2X2-FT	V	-	-	889.60	888.35	3.12	12	885.23	884.76	106	0.44%	
420	610+13.85	2.5' LT	19.9	419	2X2-FT	V	-	-	889.65	888.40	3.08	12	885.32	885.23	20	0.45%	
421	610+13.99	1.9' RT	4.4	420	2X2-FT	V	-	-	889.53	888.28	2.94	12	885.34	885.32	4	0.50%	
422	610+95.32	3.1' LT	-	-	2X2.5-FT	BW	-	-	889.90	888.65	2.88	18	885.77	-	-	-	
423	610+95.19	2.6' RT	-	-	4-FT	-	-	-	889.54	MANUAL	*VALUE!	18	885.86	885.77	-	-	SALVAGING INLET COVERS REQ'D
424	611+74.00	1.6' RT	78.8	423	3-FT	V	-	-	889.67	888.42	2.31	15	886.11	885.86	79	0.32%	
425	612+74.00	1.6' RT	100.0	424	2X2-FT	V	-	-	889.75	888.50	2.07	12	886.43	886.11	100	0.32%	
426	615+29.97	3.6' RT	30.2	430	2X2-FT	S	-	-	889.65	888.98	1.73	12	887.25	887.16	30	0.30%	2 INCHES ADJ. RINGS REQ'D
427	615+64.97	4.0' RT	35.0	426	2X2-FT	S	-	-	889.68	889.01	1.64	12	887.37	887.25	35	0.34%	2 INCHES ADJ. RINGS REQ'D
429	614+70.28	3.8' RT	196.4	425	-	-	-	-	-	-	-	12	887.06	886.43	196	0.32%	CULVERT PIPE CONCRETE COLLARS REQ'D
430	615+00.29	9.1' RT	30.5	429	-	-	-	-	-	-	-	12	887.16	887.06	31	0.32%	CULVERT PIPE CONCRETE COLLARS REQ'D
431	596+06.53	70.0' RT	-	-	2X2-FT	V	-	-			-893.10	15	893.10	-	-	-	CONCRETE COLLARS FOR PIPE REQ'D
492	599+32.57	193.0' RT	-	-	-	HM	-	-	TBD	-	-	-	-	-	-	-	
493	599+37.77	198.9' RT	-	-	-	HM	-	-	TBD	-	-	-	-	-	-	-	
494	608+33.15	228.1' RT	-	-	-	-	-	-	TBD	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
500	618+29.88	3.6' RT	100.1	501	2X2-FT	V	-	-	889.55	888.30	3.28	12	885.02	884.58	100	0.44%	
501	619+29.85	3.8' RT	52.0	502	3-FT	V	-	-	889.40	888.15	3.57	15	884.58	884.35	52	0.44%	
502	619+81.80	4.8' RT	*N/A	TBD	4-FT	-	-	-	889.29	MANUAL	*VALUE!	18	884.35	TBD	*N/A	*VALUE!	SALVAGING INLET COVERS REQ'D
503	620+84.78	4.1' RT	100.0	504	2X2-FT	V	-	-	889.21	887.96	3.16	12	884.80	884.36	100	0.44%	
504	621+84.72	4.1' RT	101.2	505	2X2-FT	V	-	-	889.04	887.79	3.43	12	884.36	883.91	101	0.45%	
505	622+85.87	4.3' RT	-	-	2X2.5-FT	BW	-	-	888.88	887.63	4.22	18	883.41	-	-	-	

STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE	NEW COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS
506	623+64.61	3.8' RT	85.1	507	2X2-FT	V	-	-	888.78	887.53	3.08	12	884.45	884.03	85	0.49%	
507	624+49.60	3.4' RT	81.6	508	2X2-FT	V	-	-	888.70	887.45	3.42	12	884.03	883.63	82	0.49%	
508	625+31.09	4.0' RT	-	-	2X2.5-FT	BW	-	-	888.65	887.40	3.77	15	883.63	-	-	-	
509	626+19.55	2.7' RT	95.0	510	2X2-FT	V	-	-	888.59	887.34	2.71	12	884.63	884.21	95	0.44%	
510	627+14.52	2.1' RT	81.5	511	2X2-FT	V	-	-	888.56	887.31	3.10	12	884.21	883.85	82	0.44%	
511	627+95.99	2.7' RT	-	-	2X2.5-FT	BW	-	-	888.59	887.34	3.49	18	883.85	-	-	-	
512	629+76.49	1.4' RT	10.2	513	2X2-FT	V	-	-	888.63	887.38	2.37	12	885.01	884.97	10	0.40%	
513	629+86.67	2.2' RT	-	-	3-FT	-	-	-	888.61	MANUAL	*VALUE!	15	884.97	-	-	-	SALVAGING INLET COVERS REQ'D
514	629+96.50	1.4' RT	9.9	513	2X2-FT	V	-	-	888.63	887.38	2.37	12	885.01	884.97	10	0.40%	
515	631+34.43	2.8' LT	-	-	4-FT	-	-	-	889.97	MANUAL	*VALUE!	18	885.96	-	-	-	SALVAGING INLET COVERS REQ'D
516	630+49.49	2.4' RT	53.0	514	2X2-FT	V	-	-	888.71	887.46	2.21	12	885.25	885.01	53	0.45%	
517	631+84.15	2.9' LT	-	-	4-FT	V	-	-	889.97	888.72	2.99	18	885.73	-	-	-	
519	631+84.49	3.0' RT	5.9	517	2X2-FT	V	-	-	888.78	887.53	1.78	12	885.75	885.73	6	0.33%	
520	632+83.47	3.5' LT	-	-	4-FT		-	-	889.98	MANUAL	*VALUE!	18	885.28	-	-	-	SALVAGING INLET COVERS REQ'D
521	632+83.38	2.6' RT	-	-	2X2.5-FT	BW	-	-	889.05	887.80	2.20	18	885.60	-	-	-	
522	634+83.43	3.5' LT	-	-	4-FT		-	-	890.01	MANUAL	*VALUE!	18	885.00	-	-	-	SALVAGING INLET COVERS REQ'D
523	634+83.60	2.8' RT	6.3	522	3-FT	-	-	-	889.47	MANUAL	*VALUE!	15	885.12	885.00	6	2.00%	SALVAGING INLET COVERS REQ'D
524	635+74.43	2.8' LT	91.0	522	2X2-FT	V	-	-	889.98	888.73	3.33	12	885.40	885.00	91	0.44%	
525	635+74.50	1.8' RT	4.6	524	2X2-FT	V	-	-	889.79	888.54	3.12	12	885.42	885.40	5	0.40%	
526	637+84.43	2.6' LT	210.0	524	2X2-FT	V	-	-	890.34	889.09	2.77	12	886.32	885.40	210	0.44%	
527	637+84.50	1.9' RT	4.5	526	2X2-FT	V	-	-	890.28	889.03	2.69	12	886.34	886.32	5	0.40%	
528	638+34.46	3.1' LT	-	-	2X2.5-FT	BW	-	-	890.51	889.26	6.42	18	882.84	-	-	-	
529	638+34.44	2.7' RT	5.8	528	2X2-FT	V	-	-	890.53	889.28	3.70	12	885.58	885.52	6	1.00%	SALVAGING INLET COVERS REQ'D
530	638+84.43	2.6' LT	50.0	528	2X2-FT	V	-	-	890.67	889.42	3.38	12	886.04	885.52	50	1.04%	
531	638+84.50	1.9' RT	4.4	530	2X2-FT	V	-	-	890.76	889.51	3.34	12	886.17	886.04	4	3.25%	
532	641+10.31	3.2' LT	5.7	533	2X2-FT		-	-	891.39	MANUAL	*VALUE!	12	885.67	885.61	6	1.00%	SALVAGING INLET COVERS REQ'D
533	641+10.99	2.4' RT	-	-	4-FT		-	-	891.42	MANUAL	*VALUE!	24	885.61	-	-	-	SALVAGING INLET COVERS REQ'D
534	642+83.67	2.7' LT	-	-	4-FT		-	-	891.90	MANUAL	*VALUE!	24	882.00	-	-	-	SALVAGING INLET COVERS REQ'D
535	642+83.52	3.0' RT	5.7	534	2X2-FT	V	-	-	891.79	890.54	3.48	12	887.06	887.00	6	1.00%	SALVAGING INLET COVERS REQ'D
536	643+05.43	2.1' LT	21.8	534	3-FT	V	-	-	891.99	890.74	3.97	15	886.77	886.53	22	1.09%	
537	643+05.50	2.2' RT	4.2	536	2X2-FT	V	-	-	891.89	890.64	3.35	12	887.29	887.02	4	6.75%	
538	646+35.43	1.9' LT	330.0	536	3-FT	V	-	-	896.45	895.20	3.67	15	891.53	886.77	330	1.44%	
539	646+35.50	2.1' RT	4.0	538	2X2-FT	V	-	-	896.42	895.17	3.52	12	891.65	891.53	4	3.00%	
540	647+35.43	2.0' LT	100.0	538	2X2-FT	V	-	-	899.16	897.91	3.83	12	894.08	891.78	100	2.30%	
541	647+35.49	1.9' RT	3.9	540	2X2-FT	V	-	-	899.07	897.82	3.62	12	894.20	894.08	4	3.00%	
542	647+85.03	3.2' LT	-	-	2X2.5-FT	BW	-	-	900.65	899.40	5.54	18	893.86	-	-	-	
543	647+84.43	3.2' RT	6.4	542	2X2-FT	V	-	-	900.49	899.24	3.68	12	895.56	895.50	6	1.00%	SALVAGING INLET COVERS REQ'D
544	653+92.96	3.6' LT	-	-	4-FT		-	-	918.94	MANUAL	*VALUE!	-	914.35	-	-	-	SALVAGING INLET COVERS REQ'D
545	653+92.36	2.7' RT	-	-	4-FT		-	-	918.87	MANUAL	*VALUE!	-	914.32	-	-	-	SALVAGING INLET COVERS REQ'D
546	638+98.43	70.0' RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
547	639+16.50	70.3' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
548	653+57.83	81.4' RT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
549	653+71.38	81.5' RT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
550	654+30.31	73.7' LT	-	-	-	V	-	-		-	-	-	-	-	-	-	REMOVING INLET COVERS REQ'D
592	629+88.96	74.7' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
596	641+10.27	71.1' RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
600	664+84.47	3.1' LT	-	-	2X2.5-FT	BW	-	-	922.33	921.08	4.89	18	916.19	-	-	-	
601	664+84.03	2.5' RT	-	-	4-FT		-	-	920.08	MANUAL	*VALUE!	18	915.79	-	-	-	SALVAGING INLET COVERS REQ'D
602	668+34.22	3.2' LT	-	-	2X2.5-FT	BW	-	-	912.64	911.39	3.72	18	907.67	-	-	-	
603	668+34.22	2.8' RT	-	-	4-FT		-	-	910.90	MANUAL	*VALUE!	21	906.75	-	-	-	SALVAGING INLET COVERS REQ'D

STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE	NEW COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE					REMARKS
												SIZE (IN)	INLET ELEV.	DISCHARGE ELEV.	LENGTH (FT)	SLOPE (%)	
604	671+83.56	2.8'RT	-	-	4-FT		-	-	901.77	MANUAL	*VALUE!	24	896.78	-	-	-	SALVAGING INLET COVERS REQ'D
605	674+57.41	4.0'RT	312.1	653	-		5-FT		894.59	MANUAL	*VALUE!	24	886.91	-	-	-	SALVAGING INLET COVERS REQ'D
606	679+83.41	4.8'RT	93.0	692	4-FT		-	-	881.02	MANUAL	*VALUE!	24	876.25	875.61	TBD	TBD	SALVAGING INLET COVERS REQ'D; CULVERT PIPE CONCRETE COLLARS REQ'D (2)
607	683+83.28	1.6'LT	-	-	4-FT		-	-	870.98	MANUAL	*VALUE!	24	865.21	-	-	-	SALVAGING INLET COVERS REQ'D
608	683+83.22	4.3'RT	-	-	2X2.5-FT	BW	-	-	870.75	869.50	3.18	18	866.32	-	-	-	
609	683+63.40	4.4'RT	19.8	608	2X2-FT	V	-	-	871.27	870.02	2.85	12	867.17	866.32	20	4.25%	
610	689+33.95	2.2'LT	-	-	2X2.5-FT	BW	-	-	859.45	858.20	2.55	18	855.65	-	-	-	
611	689+34.09	4.2'RT	-	-	2X2.5-FT	BW	-	-	859.66	858.41	2.97	18	855.44	-	-	-	
612	689+88.40	0.6'LT	50.0	614	2X2-FT	V	-	-	858.69	857.44	3.43	12	854.01	853.44	50	1.14%	
613	689+88.41	3.2'RT	3.8	612	2X2-FT	V	-	-	858.99	857.74	3.40	12	854.34	854.01	4	8.25%	
614	690+38.40	0.7'LT	181.0	656	3-FT	V	-	-	858.07	856.82	3.38	15	853.44	852.03	181	0.78%	
615	690+38.40	3.2'RT	3.9	614	2X2-FT	V	-	-	858.41	857.16	3.45	12	853.71	853.69	4	0.50%	
616	693+99.44	0.9'LT	10.0	620	4-FT	V	-	-	855.40	854.15	3.54	18	850.61	850.31	10	3.00%	
617	693+99.51	3.0'RT	3.9	616	2X2-FT	V	-	-	856.22	854.97	3.40	12	851.57	851.19	4	9.50%	
620	694+09.40	1.0'LT	83.6	625	4-FT	V	-	-	855.38	854.13	3.82	18	850.31	849.84	84	0.56%	
621	694+39.83	4.1'RT	27.7	622	3-FT	V	-	-	856.17	854.92	3.69	15	851.23	851.09	28	0.50%	
622	694+67.53	4.0'RT	25.9	624	3-FT		-	-	856.15	MANUAL	*VALUE!	15	851.09	850.96	26	0.50%	SALVAGING INLET COVERS REQ'D
624	694+93.45	3.7'RT	5.9	625	4-FT	V			856.15	854.90	3.94	18	850.96	850.93	6	0.50%	
625	694+93.03	2.2'LT	10.0	626	4-FT	V			855.27	854.02	4.18	24	849.84	849.60	10	2.40%	
626	695+03.03	2.1'LT	91.7	695	-	-	5-FT	-	855.27	MANUAL	*VALUE!	24	849.60	849.19	92	0.45%	SALVAGING INLET COVERS REQ'D
627	695+13.03	2.1'LT	10.0	626	4-FT	V	-	-	855.27	854.02	4.33	18	849.69	849.60	10	0.90%	
628	695+88.98	1.6'LT	76.0	627	4-FT	V	-	-	855.33	854.08	4.05	18	850.03	849.69	76	0.45%	
629	695+89.40	2.7'RT	4.3	628	2X2-FT	V	-	-	856.32	855.07	4.52	12	850.55	850.53	4	0.50%	
630	696+09.40	1.3'LT	20.4	628	4-FT	V	-	-	855.39	854.14	4.01	18	850.13	850.03	20	0.50%	
631	696+85.40	1.0'LT	76.0	630	4-FT	V	-	-	855.67	854.42	3.91	18	850.51	850.13	76	0.50%	
632	697+35.40	0.9'LT	50.0	631	4-FT	V	-	-	855.94	854.69	3.96	18	850.73	850.51	50	0.44%	
633	697+89.20	1.2'LT	53.8	632	3-FT	V	-	-	856.29	855.04	3.70	15	851.34	850.98	54	0.67%	
634	697+89.41	2.7'RT	3.9	633	2X2-FT	V	-	-	857.38	856.13	3.81	12	852.32	851.59	4	18.25%	
635	698+49.40	1.3'LT	60.2	633	2X2-FT	V	-	-	856.78	855.53	2.94	12	852.59	851.59	60	1.67%	
636	700+82.88	2.8'LT	-	-	2X2.5-FT	BW	-	-	859.50	858.25	3.63	18	854.62	-	-	-	
637	700+83.82	3.4'RT	-	-	2X2.5-FT	BW	-	-	860.87	859.62	4.26	18	855.36	-	-	-	
638	701+68.00	1.4'LT	85.1	636	2X2-FT	V	-	-	860.82	859.57	3.11	12	856.46	855.12	85	1.58%	
639	704+83.96	1.5'LT	-	-	2X2.5-FT	BW	-	-	866.77	865.52	3.92	18	861.60	-	-	-	
640	709+71.06	2.6'LT	-	-	2X2.5-FT	BW	-	-	874.57	873.32	2.72	18	870.60	-	-	-	
641	713+87.01	3.1'LT	-	-	2X2.5-FT	BW	-	-	881.10	879.85	2.62	18	877.23	-	-	-	
642	664+84.40	73.3'RT	-	-	-	V	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
643	665+24.48	73.6'LT	-	-	-	V	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
644	667+71.88	73.7'RT	-	-	-	V	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
645	667+96.64	73.7'LT	-	-	-	V	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
646	670+31.03	73.7'LT	-	-	-	V	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
647	672+71.31	72.4'LT	-	-	-	V	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
648	693+01.18	73.9'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
649	694+84.60	73.3'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
650	672+69.92	1.9'RT	30.4	651	-	-	-	-	-	-	-	24	894.25	893.38	30	2.90%	CULVERT PIPE CONCRETE COLLARS REQ'D
651	673+00.03	5.7'RT	30.3	652	-	-	-	-	-	-	-	24	893.38	892.51	30	2.90%	CULVERT PIPE CONCRETE COLLARS REQ'D
652	673+30.08	2.0'RT	-	-	-	-	-	-	-	-	-	24	892.51	-	-	-	CULVERT PIPE CONCRETE COLLARS REQ'D
653	677+69.47	1.5'RT	31.1	654	-	-	-	-	-	-	-	24	880.43	879.84	31	1.90%	CULVERT PIPE CONCRETE COLLARS REQ'D
654	677+99.40	9.7'RT	31.0	655	-	-	-	-	-	-	-	24	879.84	879.25	31	1.90%	CULVERT PIPE CONCRETE COLLARS REQ'D
655	678+29.46	2.1'RT	-	-	-	-	-	-	-	-	-	24	879.25	-	-	-	CULVERT PIPE CONCRETE COLLARS REQ'D
656	692+19.41	0.7'LT	30.4	657	-	-	-	-	-	-	-	15	852.03	851.79	30	0.80%	CULVERT PIPE CONCRETE COLLARS REQ'D

STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE	NEW COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE					REMARKS
												SIZE (IN)	INLET ELEV.	DISCHARGE ELEV.	LENGTH (FT)	SLOPE (%)	
657	692+49.39	6.0'LT	30.5	658	-	-	-	-	-	-	-	15	851.79	851.55	30	0.80%	CULVERT PIPE CONCRETE COLLARS REQ'D
658	692+79.41	0.7'LT	120.0	616	-	-	-	-	-	-	-	15	851.55	850.61	120	0.78%	CULVERT PIPE CONCRETE COLLARS REQ'D
694	689+32.96	83.6'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
695	695+03.55	93.8'LT	-	-	-	-	-	-	-	-	-	24	849.19	-	-	-	APRON ENDWALLS FOR CPRC 24-INCH REQ'D
701	721+49.73	3.2'LT	5.1	702	2X2-FT	V	-	-	882.64	881.39	3.46	12	877.93	877.90	5	0.60%	
702	721+49.77	1.9'RT	168.0	704	2X2-FT	V	-	-	882.57	881.32	3.42	12	877.90	876.28	168	0.96%	
703	723+17.75	1.3'LT	3.5	704	2X2-FT	V	-	-	881.69	880.44	3.51	12	876.93	876.91	3	0.67%	
704	723+17.73	2.2'RT	100.0	706	3-FT	V	-	-	881.51	880.26	4.23	15	876.03	875.32	100	0.71%	
705	724+17.75	1.4'LT	3.5	706	2X2-FT	V	-	-	881.02	879.77	4.19	12	875.58	875.57	3	0.33%	
706	724+17.72	2.0'RT	50.0	708	3-FT	V	-	-	880.95	879.70	4.38	15	875.32	874.83	50	0.98%	
707	724+67.75	1.5'LT	-	-	-	-	-	-	880.78	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
708	724+67.73	2.1'RT	37.8	737	-	-	-	-	880.75	-	-	18	874.58	874.28	38	0.79%	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D
709	725+41.75	1.5'LT	3.5	710	2X2-FT	V	-	-	880.55	879.30	3.40	12	875.90	875.88	4	0.50%	
710	725+41.73	2.1'RT	10.0	712	4-FT	V	-	-	880.55	879.30	5.32	24	873.98	873.90	10	0.80%	
711	725+51.75	1.5'LT	-	-	-	-	-	-	880.57	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
712	725+51.74	2.0'RT	10.0	713	-	-	-	-	880.57	-	-	24	873.90	873.68	10	2.20%	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D
713	725+61.75	2.0'RT	38.0	715	4-FT	V	-	-	880.58	879.33	5.65	24	873.68	872.86	38	2.16%	
714	725+99.74	2.2'LT	5.5	715	2X2-FT	V	-	-	880.62	879.37	3.40	12	875.97	875.96	5	0.20%	
715	725+99.76	3.3'RT	71.7	717	4-FT	V	-	-	880.62	879.37	6.51	24	872.86	871.31	72	2.15%	
716	726+70.99	2.1'LT	-	-	-	-	-	-	880.90	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D; REMOVING VANE DRAIN REQ'D
717	726+71.42	2.4'RT	-	-	-	-	-	-	880.90	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D(2); REMOVING VANE DRAIN REQ'D
718	728+19.74	1.6'LT	4.2	719	2X2-FT	V	-	-	881.75	880.50	3.36	12	877.14	877.12	4	0.50%	
719	728+19.75	2.5'RT	148.3	717	2X2-FT	V	-	-	881.70	880.45	3.33	12	877.12	876.38	148	0.50%	
720	732+09.75	0.7'LT	-	-	-	-	-	-	884.25	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
721	732+09.74	2.4'RT	-	-	-	-	-	-	884.18	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D
722	732+59.75	2.3'RT	50.0	721	3-FT	V	-	-	884.55	883.30	3.63	15	879.67	878.79	50	1.76%	
723	735+99.84	2.3'RT	50.0	739	3-FT	V	-	-	886.71	885.46	3.63	15	881.83	881.53	50	0.60%	
724	735+99.75	1.0'LT	3.3	723	2X2-FT	V	-	-	886.72	885.47	3.24	12	882.23	882.10	3	4.33%	
726	736+49.75	1.2'LT	3.7	728	2X2-FT	V	-	-	886.99	885.74	3.18	12	882.56	882.54	4	0.50%	
728	736+49.73	2.5'RT	49.9	723	2X2-FT	V	-	-	887.08	885.83	3.29	12	882.54	882.08	50	0.92%	
729	723+74.68	71.9'LT	92.7	795		V				-1.25	-877.44	12	876.19	875.73	93	0.49%	
730	726+89.81	71.7'LT	50.6	796		V				-1.25	-877.36	12	876.11	875.86	51	0.49%	
731	729+00.07	72.1'RT	239.1	798	2X3-FT	HM	-	-		-0.83	-878.34	12	877.51	875.00	239	1.05%	
732	724+66.69	72.2'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
733	725+52.12	71.8'LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
734	725+50.85	72.4'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
735	734+88.47	78.2'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
736	741+37.80	96.1'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
737	725+05.03	8.5'RT	37.3	710	-	-	-	-	-	-	-	18	874.28	873.98	37	0.81%	CULVERT PIPE CONCRETE COLLARS REQ'D
738	735+20.20	2.5'RT	260.4	722	-	-	-	-	-	-	-	15	881.34	879.67	260	0.64%	CULVERT PIPE CONCRETE COLLARS REQ'D
739	735+50.00	6.0'RT	30.0	738	-	-	-	-	-	-	-	15	881.53	881.34	30	0.63%	CULVERT PIPE CONCRETE COLLARS REQ'D
795	724+67.43	71.8'LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D
796	726+39.25	71.8'LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D
798	726+60.96	72.3'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D
799	732+10.50	71.5'LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
800	744+93.76	1.3'LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
801	744+93.80	2.3'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
802	748+99.79	2.5'LT	5.4	803	2X2-FT	V	-	-	868.40	867.15	3.42	12	863.73	863.70	5	0.60%	
803	748+99.76	2.9'RT	38.8	805	2X2-FT	V	-	-	868.37	867.12	3.42	12	863.70	862.98	39	1.85%	
804	749+38.43	2.5'LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D; REMOVING VANE DRAIN REQ'D

STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE	NEW COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE					REMARKS
												SIZE (IN)	INLET ELEV.	DISCHARGE ELEV.	LENGTH (FT)	SLOPE (%)	
805	749+38.53	2.5'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D, REMOVING VANE DRAIN REQ'D
806	753+29.82	2.2'LT	4.8	807	2X2-FT	V	-	-	864.57	863.32	4.18	12	859.14	859.11	5	0.60%	
807	753+29.79	2.5'RT	50.0	809	2X2-FT	V	-	-	864.57	863.32	4.21	12	859.11	858.83	50	0.56%	
808	753+79.80	1.4'LT	3.4	809	2X2-FT	V	-	-	864.37	863.12	4.27	12	858.85	858.83	3	0.67%	
809	753+79.79	2.0'RT	50.7	811	2X2-FT	V	-	-	864.36	863.11	4.28	12	858.83	858.46	51	0.73%	
810	754+28.94	2.6'LT	-	-	-	-	-	-	864.19	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D; REMOVING VANE DRAIN REQ'D
811	754+30.51	2.2'RT	-	-	-	-	-	-	864.17	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D, REMOVING VANE DRAIN REQ'D
812	755+79.80	1.3'LT	295.0	814	2X2-FT	V	-	-	863.68	862.43	2.88	12	859.55	858.25	295	0.44%	
813	755+79.80	2.3'RT	3.6	812	2X2-FT	V	-	-	863.68	862.43	2.86	12	859.57	859.55	4	0.50%	
814	758+74.80	1.2'LT	113.5	816	2X2-FT	V	-	-	862.70	861.45	3.20	12	858.25	857.75	114	0.44%	
815	758+74.80	2.3'RT	3.4	814	2X2-FT	V	-	-	862.65	861.40	3.13	12	858.27	858.25	3	0.67%	
816	759+88.30	2.5'LT	-	-	-	-	-	-	862.32	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D, REMOVING VANE DRAIN REQ'D
817	759+87.93	2.8'RT	-	-	-	-	-	-	862.23	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, REMOVING VANE DRAIN REQ'D
818	760+57.80	1.1'LT	3.3	819	2X2-FT	V	-	-	862.08	860.83	4.08	12	856.75	856.73	3	0.67%	
819	760+57.82	2.2'RT	100.0	821	2X2-FT	V	-	-	861.96	860.71	3.98	12	856.73	856.23	100	0.50%	
820	761+57.80	1.1'LT	3.0	821	2X2-FT	V	-	-	861.68	860.43	4.18	12	856.25	856.23	3	0.67%	
821	761+57.79	1.9'RT	300.0	823	2X2-FT	V	-	-	861.62	860.37	4.14	12	856.23	854.73	300	0.50%	
822	764+57.80	1.1'LT	3.2	823	2X2-FT	V	-	-	860.59	859.34	4.59	12	854.75	854.73	3	0.67%	
823	764+57.79	2.1'RT	181.0	825	3-FT	V	-	-	860.52	859.27	4.79	15	854.48	853.51	181	0.54%	
824	766+37.87	2.4'LT	-	-	-	-	-	-	859.91	0.00	-853.99	30	853.99	-	-	-	ADJUSTING INLET COVERS REQ'D; REMOVING VANE DRAIN REQ'D
825	766+38.79	3.0'RT	-	-	-	-	-	-	859.86	0.00	-853.51	36	853.51	-	-	-	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D, REMOVING VANE DRAIN REQ'D
826	768+89.81	2.2'LT	4.9	827	2X2-FT	V	-	-	859.05	857.80	2.88	12	854.92	854.89	5	0.60%	
827	768+89.80	2.7'RT	80.0	829	2X2-FT	V	-	-	858.96	857.71	2.82	15	854.89	854.54	80	0.44%	
828	769+69.80	1.2'LT	3.0	829	2X2-FT	V	-	-	858.79	857.54	2.98	12	854.56	854.54	3	0.67%	
829	769+69.79	1.9'RT	50.0	80009	3-FT	V	-	-	858.66	857.41	2.87	15	854.54	854.32	50	0.44%	
830	771+49.79	2.9'LT	5.4	831	2X2-FT	V	-	-	858.14	856.89	3.12	12	853.77	853.74	5	0.60%	
831	771+49.78	2.5'RT	195.0	833	3-FT	V	-	-	857.99	856.74	3.00	15	853.74	852.89	195	0.44%	
832	773+44.79	2.7'LT	5.8	833	2X2-FT	V	-	-	857.33	856.08	3.16	12	852.92	852.89	6	0.50%	
833	773+44.79	3.1'RT	50.4	882	4-FT	V	-	-	857.26	856.01	3.12	18	852.89	852.20	50	1.38%	
834	774+99.80	1.3'LT	3.1	835	2X2-FT	V	-	-	856.78	855.53	3.86	12	851.67	851.65	3	0.67%	
835	774+99.79	1.8'RT	100.0	837	3-FT	V	-	-	856.71	855.46	3.81	15	851.65	851.15	100	0.50%	
836	775+99.80	1.2'LT	-	-	-	-	-	-	856.39	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D; REMOVING VANE DRAIN REQ'D
837	775+99.79	1.7'RT	-	-	-	-	-	-	856.46	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D, REMOVING VANE DRAIN REQ'D
838	779+19.80	3.0'LT	180.0	840	2X2-FT	V	-	-	855.30	854.05	3.26	12	850.79	850.00	180	0.44%	
839	779+19.79	0.8'RT	3.9	838	2X2-FT	V	-	-	855.52	854.27	3.46	12	850.81	850.79	4	0.50%	
840	780+99.79	3.1'LT	217.0	842	3-FT	V	-	-	854.59	853.34	3.34	15	850.00	849.05	217	0.44%	
841	780+99.78	2.2'RT	5.3	840	2X2-FT	V	-	-	854.95	853.70	3.67	12	850.03	850.00	5	0.60%	
842	783+16.80	2.7'LT	19.9	844	3-FT	V	-	-	853.77	852.52	3.47	15	849.05	848.96	20	0.45%	
843	783+16.79	0.9'RT	3.6	842	2X2-FT	V	-	-	854.16	852.91	3.84	12	849.07	849.05	4	0.50%	
844	783+36.68	2.3'LT	-	-	-	-	-	-	853.68	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D, REMOVING VANE DRAIN REQ'D
845	783+36.59	2.5'RT	-	-	-	-	-	-	864.08	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, REMOVING VANE DRAIN REQ'D
846	786+03.55	3.9'LT	-	-	-	-	-	-	852.72	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
847	786+03.19	3.5'RT	-	-	-	-	-	-	853.08	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
848	787+03.81	2.7'LT	3.4	849	2X2-FT	V	-	-	852.37	851.12	2.34	12	848.78	848.76	3	0.67%	
849	787+03.78	0.7'RT	207.6	851	3-FT	V	-	-	852.76	851.51	2.75	15	848.76	847.67	208	0.52%	
850	789+11.78	2.9'LT	-	-	-	-	-	-	851.94	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
851	789+11.36	3.0'RT	-	-	-	-	-	-	852.31	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D; STORM SEWER TAP REQ'D
852	789+20.56	2.6'LT	-	-	-	-	-	-	851.94	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
853	789+20.76	2.6'RT	-	-	-	-	-	-	852.32	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D
854	789+89.82	2.1'LT	4.6	855	2X2-FT	V	-	-	851.95	850.70	2.91	12	847.79	847.77	5	0.40%	

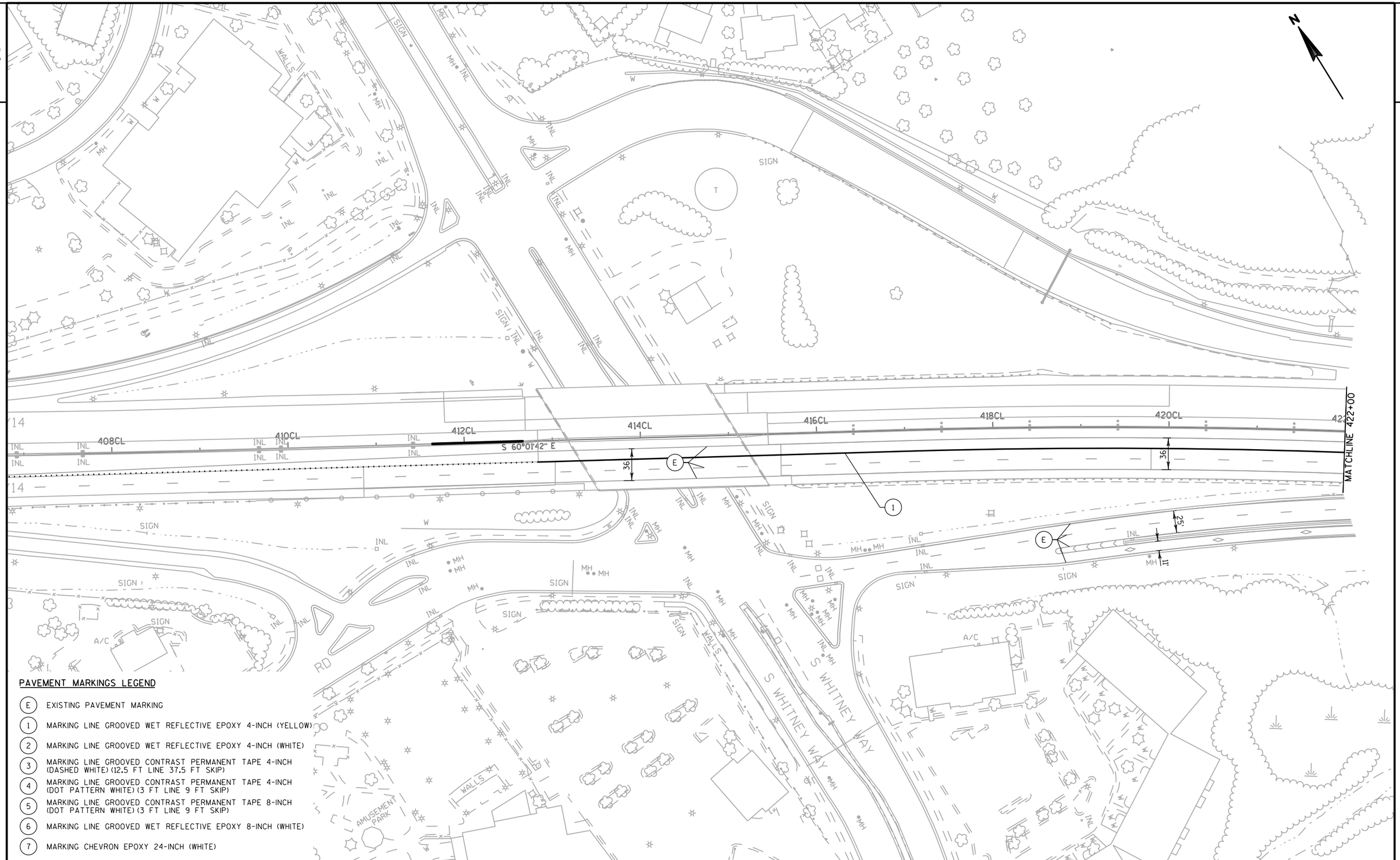
STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE	NEW COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS
855	789+89.82	2.5' RT	69.1	853	3-FT	V	-	-	852.40	851.15	3.38	15	847.77	847.47	69	0.43%	
856	790+89.79	2.2' LT	4.4	857	2X2-FT	V	-	-	852.36	851.11	2.88	12	848.23	848.21	4	0.50%	
857	790+89.81	2.2' RT	100.0	855	2X2-FT	V	-	-	852.61	851.36	3.15	12	848.21	847.77	100	0.44%	
858	792+77.80	2.3' LT	-	-	-	-	-	-	853.04	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
859	792+77.49	3.1' RT	-	-	-	-	-	-	853.30	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
860	796+19.26	1.6' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
861	796+19.36	2.4' RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
882	773+45.16	53.5' RT	97.1	80012	-	-	4-FT	J-S		-1.25	-853.45	18	852.20	851.50	97	0.72%	update invert to correct outfall elevation
883	744+92.90	60.2' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
884	749+41.85	60.1' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
885	754+16.35	59.9' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
886	758+01.91	60.6' RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
887	758+89.40	79.3' RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
888	758+77.87	58.5' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
889	744+94.28	60.0' RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
890	749+34.62	60.2' RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
891	754+43.67	60.1' RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
892	759+88.36	54.7' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
893	766+37.16	64.5' RT	-	-		-	-	-	-	-	-	36	852.60	-	-	-	CHECK TO SEE IF THIS INLET EXISTS
899	796+19.51	52.9' RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
80000	766+38.62	60.5' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D; REMOVING VANE DRAIN REQ'D
80001	796+19.29	52.5' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
80009	770+19.83	2.0' RT	30.3	80010	-	-	-	-	-	-	-	15	854.32	854.19	30	0.43%	CULVERT PIPE CONCRETE COLLARS REQ'D
80010	770+49.80	6.2' RT	30.3	80011	-	-	-	-	-	-	-	15	854.19	854.05	30	0.47%	CULVERT PIPE CONCRETE COLLARS REQ'D
80011	770+79.83	2.2' RT	69.9	831	-	-	-	-	-	-	-	15	854.05	853.74	70	0.44%	CULVERT PIPE CONCRETE COLLARS REQ'D
80012	774+35.96	87.8' RT	-	-	-	-	-	-	-	-	-	18	851.50	-	-	-	APRON ENDWALLS FOR CPRC 18-INCH REQ'D
80013	773+97.96	5.1' RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING MANHOLE COVERS REQ'D
904	822+72.43	1.6' LT	-	-	-	-	-	-	860.76	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
905	822+72.49	2.0' RT	-	-	-	-	-	-	860.78	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
906	822+84.51	1.7' LT	-	-	-	-	-	-	860.73	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
907	822+84.57	2.0' RT	-	-	-	-	-	-	860.75	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
908	822+97.31	1.4' LT	-	-	-	-	-	-	860.70	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
909	822+97.30	1.6' RT	-	-	-	-	-	-	860.72	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D; STORM SEWER TAP REQ'D maybe new structure
910	823+79.78	2.7' LT	5.3	911	2X2-FT	V	-	-	860.95	859.70	3.77	12	855.93	855.90	5	0.60%	
911	823+79.78	2.5' RT	30.1	922	4-FT	V	-	-	860.97	859.72	4.07	18	855.65	855.48	30	0.57%	
912	824+49.78	2.7' LT	3.7	913	2X2-FT	V	-	-	861.66	860.41	3.56	12	856.85	856.61	4	6.00%	
913	824+49.78	1.0' RT	70.0	911	3-FT	V	-	-	861.67	860.42	4.06	15	856.36	855.65	70	1.01%	
914	824+99.72	2.6' LT	3.6	915	2X2-FT	V	-	-	862.54	861.29	3.75	12	857.54	857.38	4	4.00%	
915	824+99.78	1.0' RT	50.0	913	3-FT	V	-	-	862.56	861.31	3.93	15	857.38	856.36	50	2.04%	
916	827+99.76	1.9' LT	3.9	917	2X2-FT	V	-	-	868.63	867.38	4.26	12	863.12	863.05	4	1.75%	
917	827+99.94	2.0' RT	300.2	915	2X2-FT	V	-	-	868.68	867.43	4.38	12	863.05	857.63	300	1.81%	
918	823+20.25	70.7' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
919	823+33.56	71.0' LT	57.4	998	-	-	-	-		-	-	18	853.65	852.81	57	1.47%	ADJUSTING INLET COVERS REQ'D; CULVERT PIPE CONCRETE COLLARS REQ'D
920	823+70.86	69.8' RT	91.1	997	-	-	-	-		-	-	24	853.30	849.00	91	4.73%	ADJUSTING INLET COVERS REQ'D; CULVERT PIPE CONCRETE COLLARS REQ'D
921	823+19.71	2.2' RT	22.4	909	-	-	-	-	-	-	-	18	855.30	855.17	22	0.59%	CULVERT PIPE CONCRETE COLLARS REQ'D
922	823+49.95	6.8' RT	30.6	921	-	-	-	-	-	-	-	18	855.48	855.30	31	0.58%	CULVERT PIPE CONCRETE COLLARS REQ'D
997	824+22.56	144.8' RT	-	-		-	-	-	-	-	-	24	849.00	-	-	-	APRON ENDWALLS FOR CPRC 24-INCH REQ'D
998	823+30.71	128.4' LT	-	-		-	-	-	-	-	-	18	852.81	-	-	-	APRON ENDWALLS FOR CPRC 18-INCH REQ'D
999	823+56.03	68.2' RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
1000	832+72.71	2.4' LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D

STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE	NEW COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE SIZE (IN)	DISCHARGE PIPE INLET ELEV.	DISCHARGE PIPE DISCHARGE ELEV.	DISCHARGE PIPE LENGTH (FT)	DISCHARGE PIPE SLOPE (%)	REMARKS
1001	832+72.79	1.6'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
1002	837+88.70	2.6'LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, REMOVING VANE DRAIN REQ'D
1003	837+88.81	1.0'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, REMOVING VANE DRAIN REQ'D
1004	839+49.78	2.3'RT	100.0	1006	2X2-FT	V	-	-	856.33	855.08	3.78	12	851.30	850.86	100	0.44%	
1005	840+49.79	3.0'LT	149.9	1007	3-FT	V	-	-	855.17	853.92	3.34	15	850.58	849.92	150	0.44%	
1006	840+49.79	2.5'RT	5.5	1005	2X2-FT	V	-	-	855.21	853.96	3.10	12	850.86	850.83	6	0.50%	
1007	841+99.70	2.8'LT	120.0	1008	3-FT	V	-	-	854.33	853.08	3.16	15	849.92	849.39	120	0.44%	
1008	843+19.70	2.9'LT	70.0	1010	4-FT	V	-	-	853.83	852.58	3.44	18	849.14	848.84	70	0.43%	
1009	843+19.81	1.0'RT	3.9	1008	2X2-FT	V	-	-	853.86	852.61	2.95	12	849.66	849.64	4	0.50%	
1010	843+89.70	2.6'LT	47.9	1012	4-FT	V	-	-	853.54	852.29	3.45	18	848.84	848.62	48	0.46%	
1011	843+89.79	1.0'RT	3.6	1010	2X2-FT	V	-	-	853.58	852.33	2.98	12	849.35	849.34	4	0.25%	
1012	844+37.62	1.5'LT	-	-	-	-	-	-	853.33	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D, REMOVING VANE DRAIN REQ'D
1013	844+37.84	2.4'RT	-	-	-	-	-	-	853.38	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, REMOVING VANE DRAIN REQ'D
1014	847+34.70	2.8'LT	115.3	1016	2X2-FT	V	-	-	852.18	850.93	2.61	12	848.32	847.97	115	0.30%	
1016	848+50.00	2.8'LT	3.8	1017	2X2-FT	V	-	-	851.69	850.44	2.47	12	847.97	847.95	4	0.50%	
1017	848+49.79	1.0'RT	50.0	1018	2X2-FT	V	-	-	851.79	850.54	2.59	12	847.95	847.80	50	0.30%	
1018	848+99.79	1.0'RT	118.0	1019	2X2-FT	V	-	-	851.58	850.33	2.53	12	847.80	847.45	118	0.30%	
1019	850+17.79	1.1'RT	49.7	1021	2X2-FT	V	-	-	851.12	849.87	2.42	12	847.45	847.30	50	0.30%	
1020	850+66.66	1.3'LT	18.9	1022	4-FT	-	-	-	851.00	MANUAL	*VALUE!	18	847.30	847.24	19	0.32%	SALVAGING INLET COVERS REQ'D
1021	850+67.46	2.2'RT	-	-	-	-	-	-	851.05	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, REMOVING VANE DRAIN REQ'D
1022	850+85.53	1.3'LT	-	-	-	-	5-FT	-	851.00	MANUAL	*VALUE!	21	847.24	-	-	-	SALVAGING INLET COVERS REQ'D
1023	850+85.74	1.9'RT	-	-	-	-	-	-	851.05	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
1024	851+07.13	1.5'LT	21.6	1022	4-FT	-	-	-	851.00	MANUAL	*VALUE!	21	847.31	847.24	22	0.32%	SALVAGING INLET COVERS REQ'D
1025	851+07.10	2.2'RT	-	-	-	-	-		851.06	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, REMOVING VANE DRAIN REQ'D
1026	851+48.70	2.8'LT	41.6	1024	4-FT	V	-	-	851.04	849.79	2.35	12	847.44	847.31	42	0.31%	
1027	851+49.27	2.1'RT	5.0	1026	2X2-FT	V	-	-	851.11	849.86	2.39	12	847.47	847.44	5	0.60%	
1028	854+59.79	2.3'LT	30.2	1043	4-FT	V	-	-	852.28	851.03	2.65	18	848.38	848.29	30	0.30%	
1029	854+59.79	1.1'RT	3.4	1028	2X2-FT	V	-	-	852.34	851.09	2.68	12	848.41	848.38	3	1.00%	
1030	855+49.79	2.9'LT	90.0	1028	2X2-FT	V	-	-	852.62	851.37	2.72	12	848.65	848.38	90	0.30%	
1031	855+49.83	2.9'RT	5.8	1030	2X2-FT	V	-	-	852.70	851.78	3.10	12	848.68	848.65	6	0.50%	
1032	858+37.41	1.6'LT	-	-	-	-	-	-	853.83	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D, REMOVING VANE DRAIN REQ'D
1033	858+37.57	2.4'RT	-	-	-	-	-	-	853.80	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, REMOVING VANE DRAIN REQ'D
1034	858+87.79	2.6'LT	50.4	1032	4-FT	V	-	-	854.04	852.79	4.29	18	848.50	848.03	50	0.94%	
1035	859+37.79	2.6'LT	50.0	1034	4-FT	V	-	-	854.25	853.00	4.00	15	849.00	848.75	50	0.50%	
1036	859+37.79	1.1'RT	3.8	1035	4-FT	V	-	-	854.30	853.05	3.85	15	849.20	849.00	4	5.00%	
1037	860+37.76	2.5'RT	100.0	1036	3-FT	V	-	-	854.69	853.44	3.74	15	849.70	849.20	100	0.50%	
1038	860+49.81	2.4'RT	12.0	1037	2X2-FT	V	-	-	854.74	853.49	3.49	12	850.00	849.95	12	0.42%	
1039	865+37.78	2.0'RT	-	-	-	-	-	-	857.81	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, REMOVING VANE DRAIN REQ'D
1041	870+86.12	3.2'RT	-	-	-	-	-	-	870.31	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, REMOVING VANE DRAIN REQ'D
1042	832+72.69	57.0'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
1043	854+29.60	2.3'LT	29.9	1044	-	-	-	-	-	-	-	18	848.29	848.20	30	0.30%	CULVERT PIPE CONCRETE COLLARS REQ'D
1044	853+99.87	5.7'LT	30.1	1045	-	-	-	-	-	-	-	18	848.20	848.11	30	0.30%	CULVERT PIPE CONCRETE COLLARS REQ'D
1045	853+69.92	2.5'LT	221.2	1026	-	-	-	-	-	-	-	18	848.11	847.44	221	0.30%	CULVERT PIPE CONCRETE COLLARS REQ'D
1046	837+79.10	1.4'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING MANHOLE COVERS REQ'D
1093	832+73.67	53.8'LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D (IF NECESSARY)
1100	879+21.43	3.2'LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
1101	879+22.07	2.7'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
1102	884+32.58	3.0'LT	4.0	1103	2X2-FT	V	-	-	862.35	861.10	4.59	12	856.51	856.49	4	0.50%	
1103	884+32.57	1.0'RT	151.5	1105	2X2-FT	V	-	-	862.14	860.89	4.40	12	856.49	854.46	151	1.34%	
1104	885+84.20	2.9'LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, REMOVING VANE DRAIN REQ'D

STRUCT NO.	STATION	OFFSET	C-C (FT)	TO STRUCT	INLET TYPE	NEW COVER	MH TYPE	COVER	RIM/ GRATE ELEV.	T.O.S. ELEV.	DEPTH (FT)	DISCHARGE PIPE					REMARKS
												SIZE (IN)	INLET ELEV.	DISCHARGE ELEV.	LENGTH (FT)	SLOPE (%)	
1105	885+84.03	2.6'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D, REMOVING VANE DRAIN REQ'D
1106	887+79.57	2.5'RT	6.4	1107	2X2-FT	V	-	-	859.49	858.24	3.13	12	855.11	854.59	6	8.67%	
1107	887+79.58	3.9'LT	100.0	1108	2X2-FT	V	-	-	859.63	858.38	3.79	12	854.59	854.15	100	0.44%	
1108	888+79.58	3.7'LT	154.9	1109	2X2-FT	V	-	-	859.39	858.14	3.99	12	854.15	853.47	155	0.44%	
1109	890+34.52	3.4'LT	35.6	1125	-	-	-	-	859.03	-	-	12	853.47	853.10	36	1.03%	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D (2)
1110	890+34.19	2.8'RT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, REMOVING VANE DRAIN REQ'D
1111	891+03.93	3.2'LT	-	-	-	-	-	-	858.99	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D, REMOVING VANE DRAIN REQ'D
1112	891+04.10	2.4'RT	-	-	-	-	-	-	858.71	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
1115	891+63.11	2.7'RT	-	-	-	-	-	-	858.69	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
1116	892+76.58	3.4'LT	7.7	1117	2X2-FT	V	-	-	859.19	857.94	3.96	12	853.98	853.94	8	0.50%	
1117	892+84.26	3.4'LT	-	-	4-FT	-	-	-	859.20	-	-	15	-	-	-	-	SALVAGING INLET COVERS REQ'D
1118	892+96.58	3.3'LT	12.3	1117	3-FT	V	-	-	859.13	857.88	5.82	15	852.06	851.81	12	2.08%	
1119	893+34.91	3.1'LT	-	-	-	-	-	-	859.26	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D, STORM SEWER TAP REQ'D, REMOVING VANE DRAIN REQ'D
1120	894+39.54	4.2'LT	104.7	1119	2X2-FT	V	-	-	859.37	858.12	4.54	12	853.58	852.83	105	0.71%	
1121	896+39.86	0.6'LT	200.5	1120	2X2-FT	V	-	-	859.91	858.66	4.08	12	854.58	853.58	200	0.50%	
1122	898+40.10	0.6'RT	200.2	1121	2X2-FT	V	-	-	860.27	859.02	3.44	12	855.58	854.58	200	0.50%	
1123	899+37.07	1.1'RT	-	-	2X2-FT	-	-	-	860.47	MANUAL	*VALUE!	12	855.52	-	-	-	SALVAGING INLET COVERS REQ'D
1124	879+46.66	58.9'RT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D
1125	890+70.02	6.0'LT	34.0	1111	-	-	-	-	-	-	-	12	853.10	852.74	34	1.06%	CULVERT PIPE CONCRETE COLLARS REQ'D
1126	890+38.30	57.0'RT	51.9	1127													Future gore inlet*need survey
1127	890+44.89	108.5'RT	-	-	-	-	-	-	-	-	-	12		-	-	-	APRON ENDWALLS FOR CPRC 12-INCH REQ'D
1128	899+99.99	4.6'LT	63.2	1123	2X2-FT	V	-	-	860.85	859.60	3.50	12	856.10	855.78	63	0.51%	
1129	905+80.00	9.9'LT	86.0	1130	2X2-FT	V	-	-	862.12	860.87	3.50	12	857.37	856.94	86	0.50%	
1130	906+66.00	9.9'LT	173.7	1131	2X2-FT	V	-	-	862.10	860.85	3.91	12	856.94	856.07	174	0.50%	
1131	908+39.69	9.9'LT	-	-	2X2-FT	V	-	-	862.31	861.06	6.36	12	854.70	-	-	-	
1193	879+19.96	58.1'LT	-	-	-	-	-	-		-	-	-	-	-	-	-	ADJUSTING INLET COVERS REQ'D

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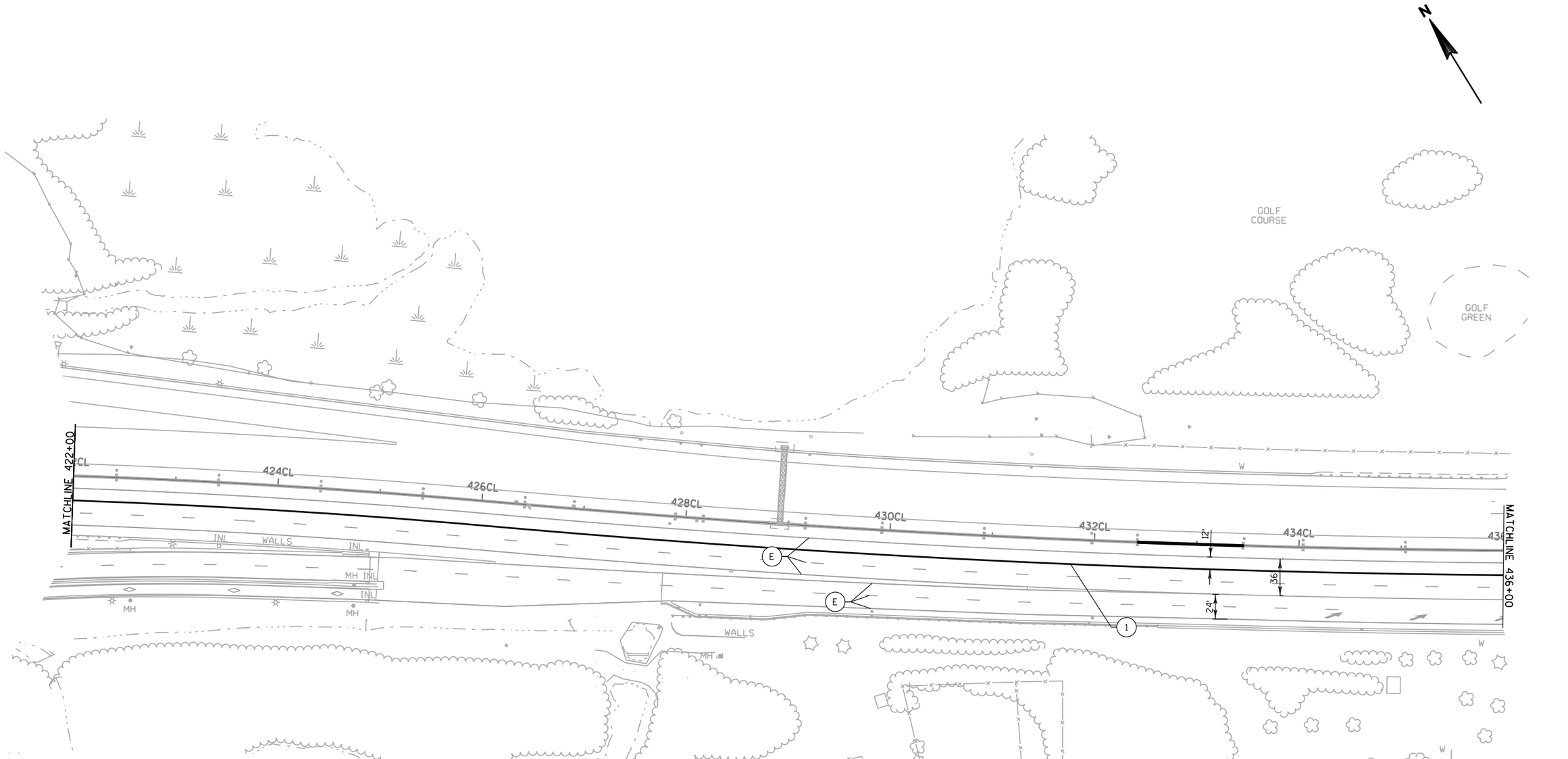
PAVEMENT MARKINGS LEGEND

- (E) EXISTING PAVEMENT MARKING
- (1) MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
- (2) MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
- (3) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
- (4) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
- (5) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
- (6) MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
- (7) MARKING CHEVRON EPOXY 24-INCH (WHITE)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

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PAVEMENT MARKINGS LEGEND

- (E) EXISTING PAVEMENT MARKING
- (1) MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
- (2) MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (WHITE)
- (3) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
- (4) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
- (5) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
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- (7) MARKING CHEVRON EPOXY 24-INCH (WHITE)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\024503_pm.dgn PLOT DATE : 1/31/2020 2:27:09 PM PLOT BY : cjustman PLOT NAME : PLOT SCALE : 100:1

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GOLF GREEN

GOLF GREEN

GOLF GREEN

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MATCHLINE 436+00

MATCHLINE 450+00

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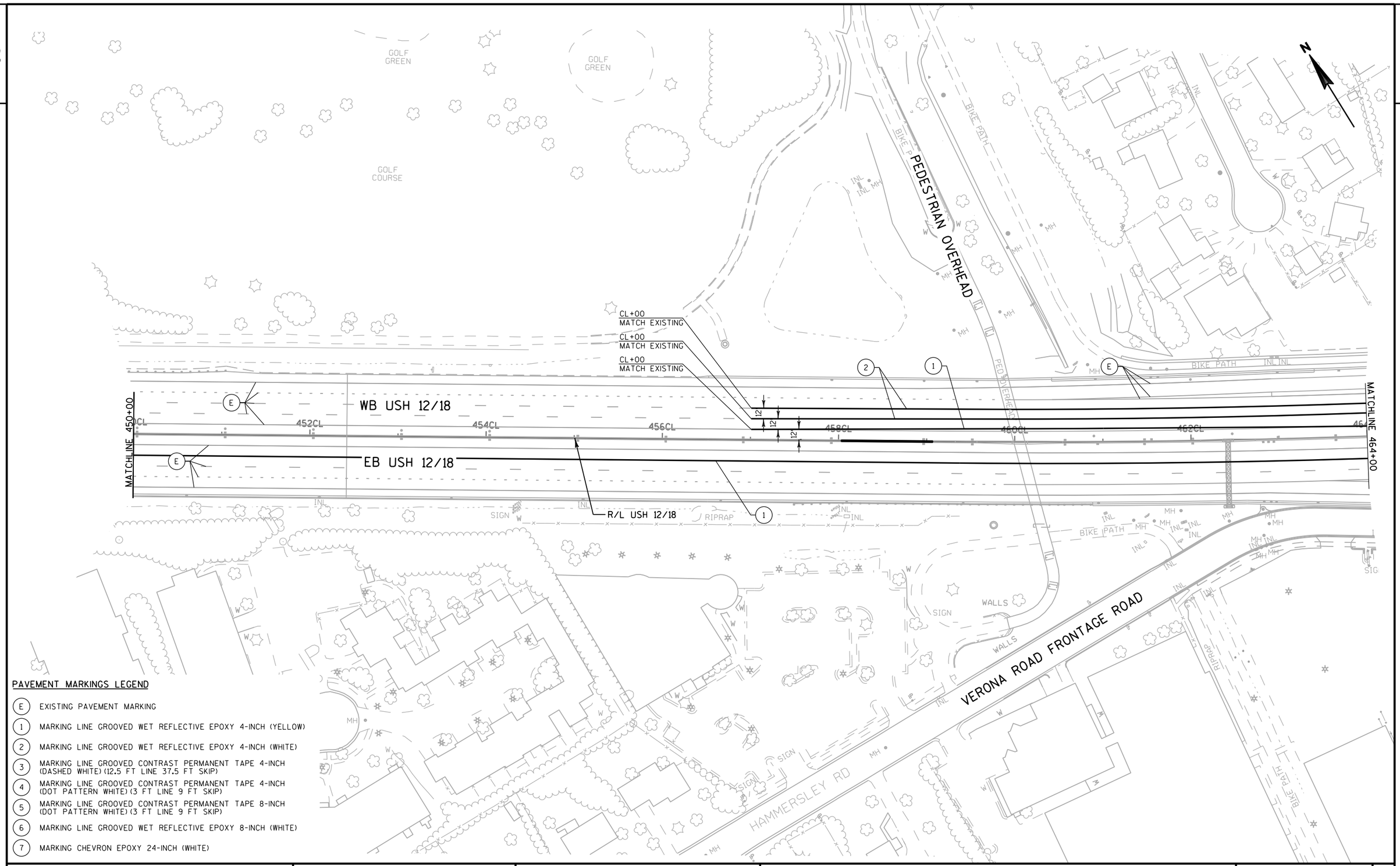
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PAVEMENT MARKINGS LEGEND

- (E) EXISTING PAVEMENT MARKING
- (1) MARKING LINE GROOVED WET REFLECTIVE EPOXY 4-INCH (YELLOW)
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- (4) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
- (5) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
- (6) MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
- (7) MARKING CHEVRON EPOXY 24-INCH (WHITE)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

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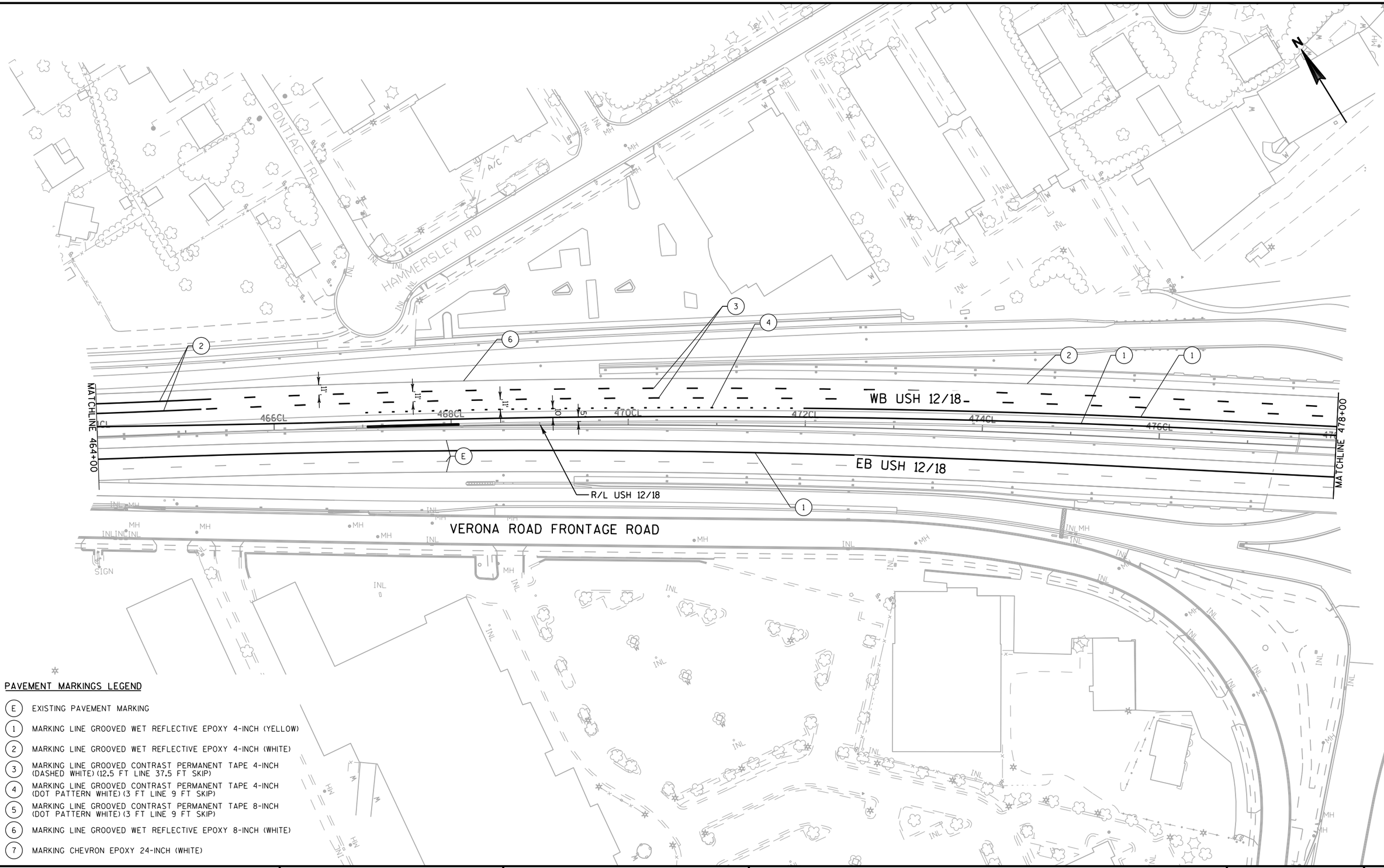


PAVEMENT MARKINGS LEGEND

- (E) EXISTING PAVEMENT MARKING
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- (3) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)
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- (5) MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
- (6) MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
- (7) MARKING CHEVRON EPOXY 24-INCH (WHITE)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

2

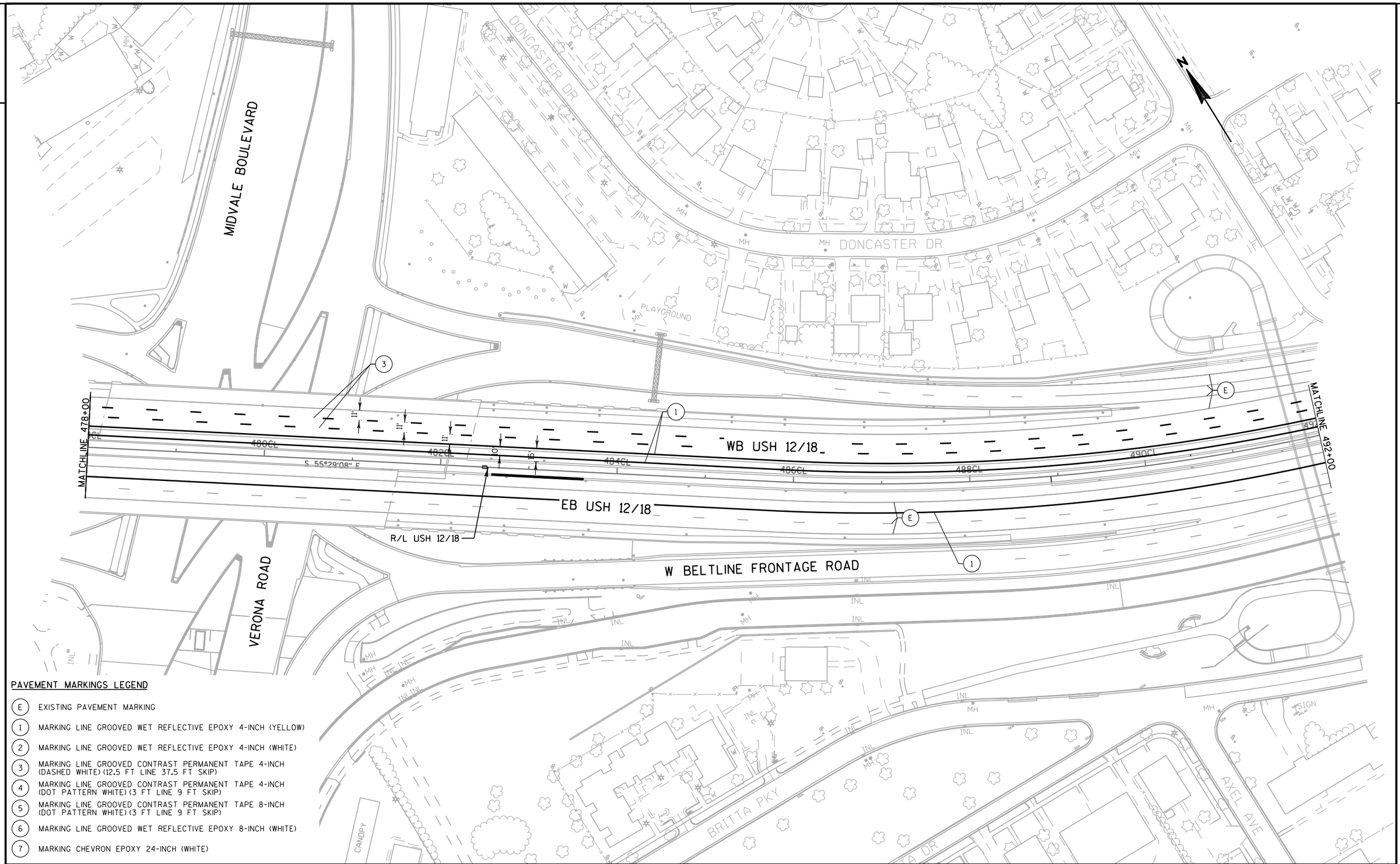


PAVEMENT MARKINGS LEGEND

- (E) EXISTING PAVEMENT MARKING
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- (7) MARKING CHEVRON EPOXY 24-INCH (WHITE)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

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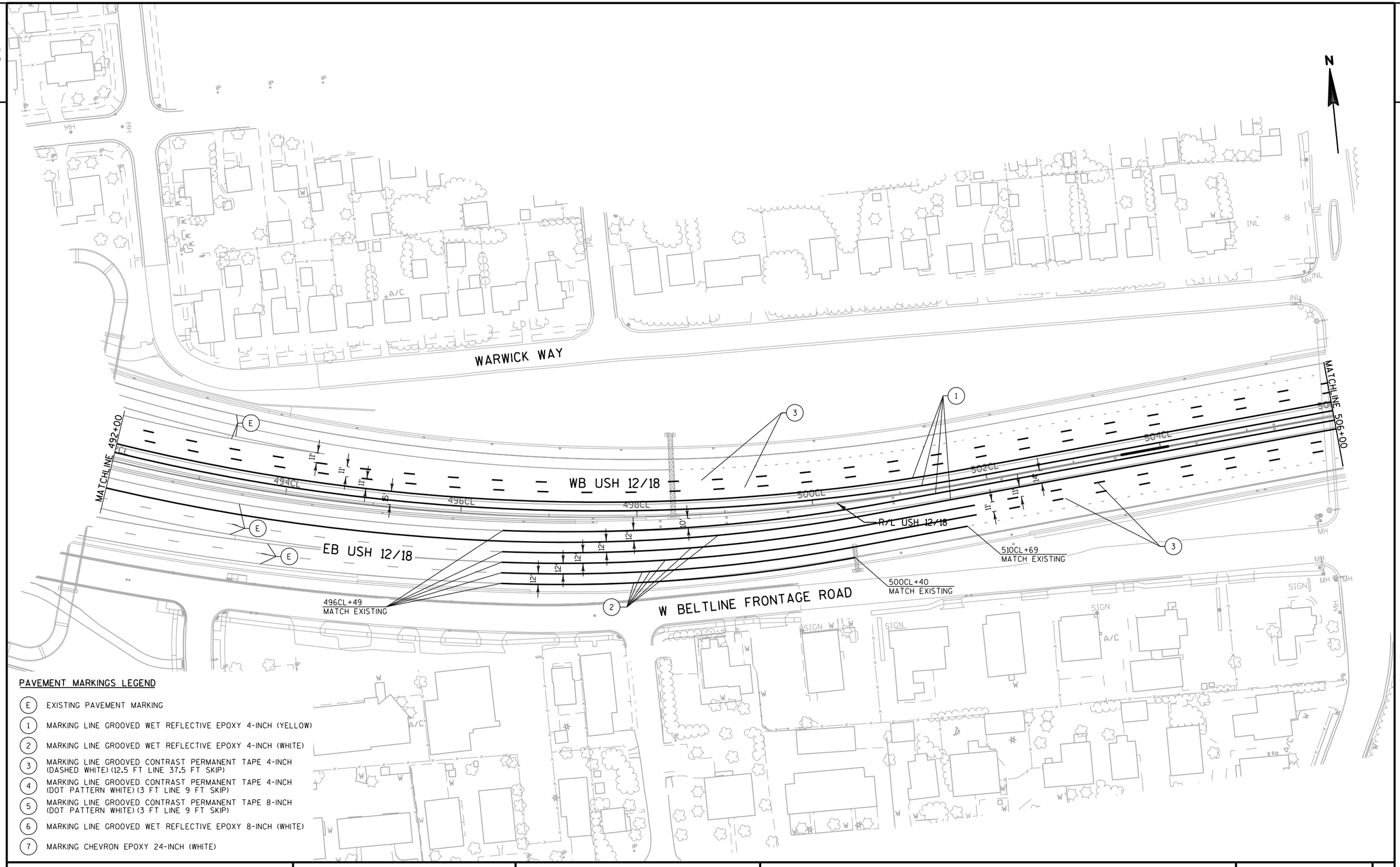


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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

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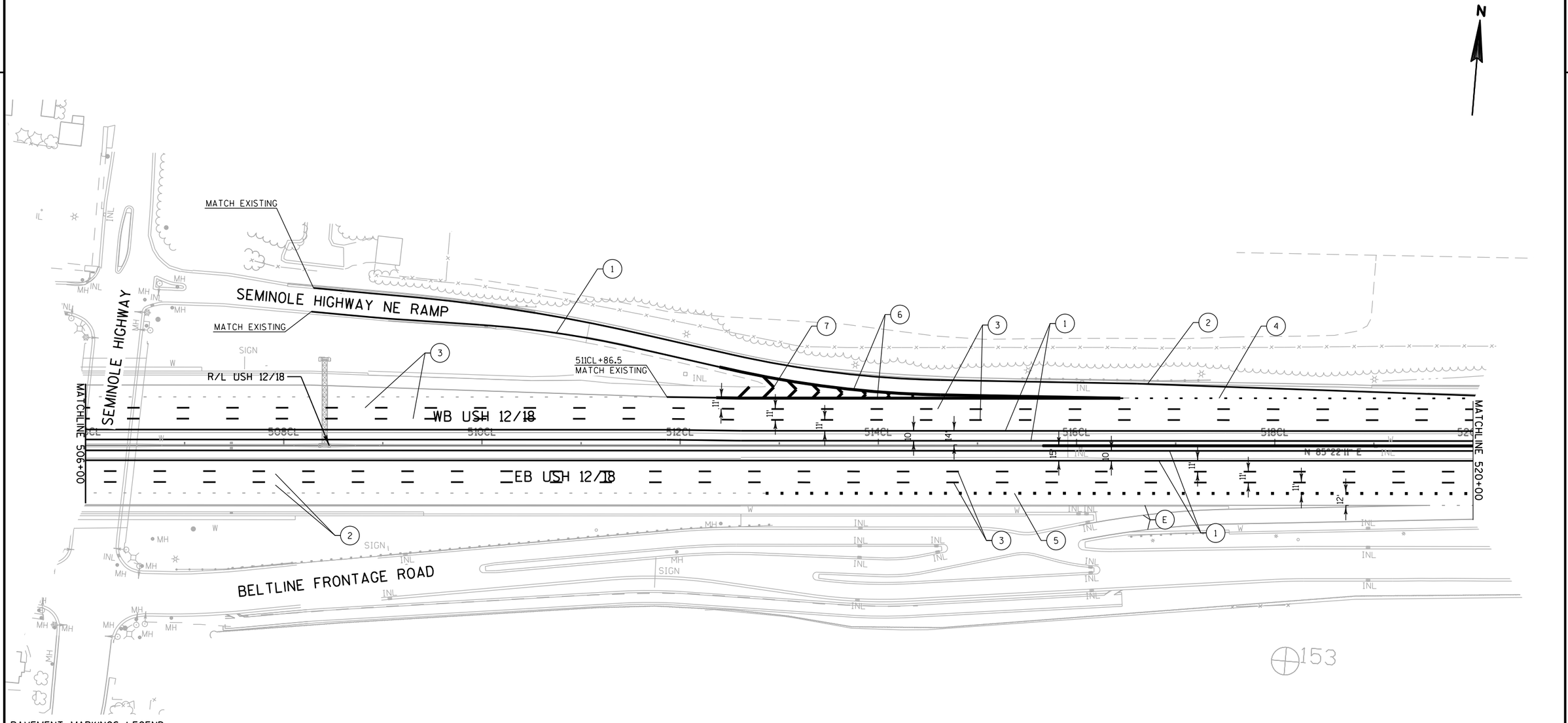


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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

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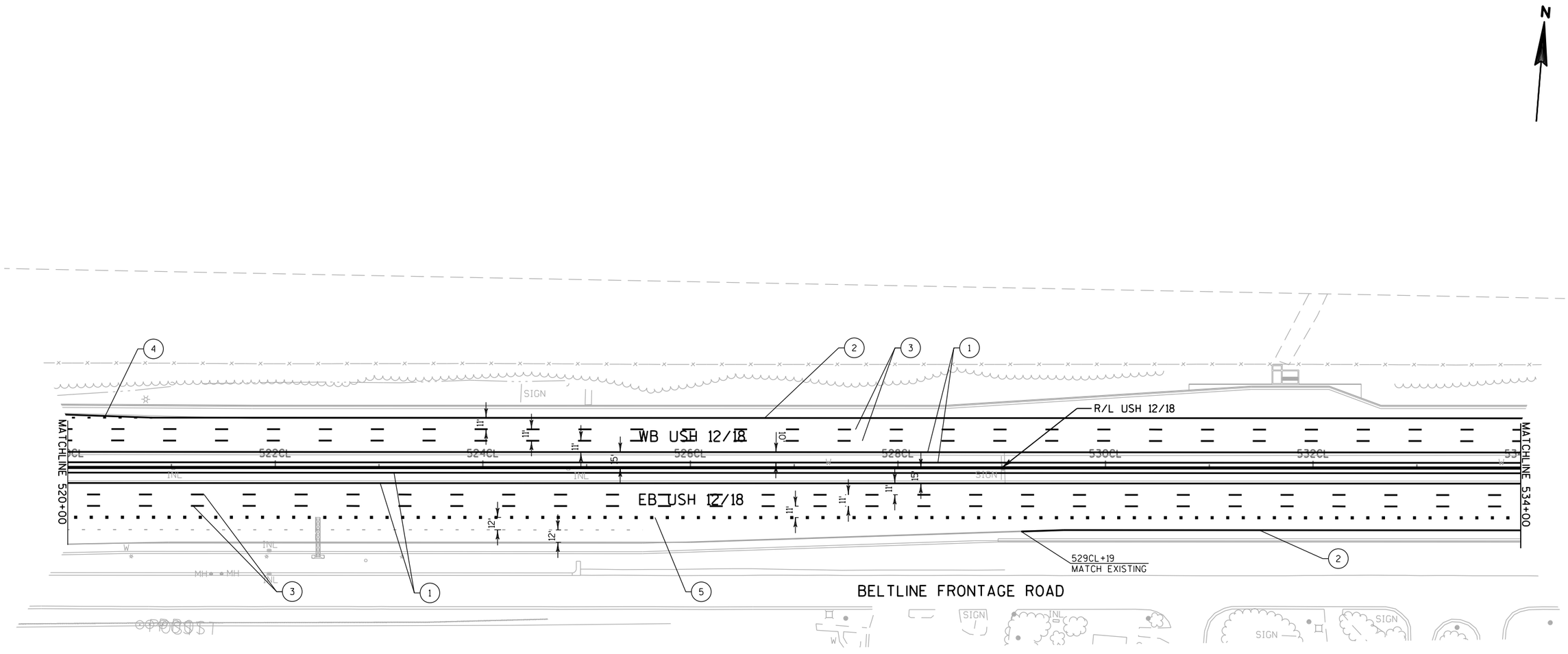
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

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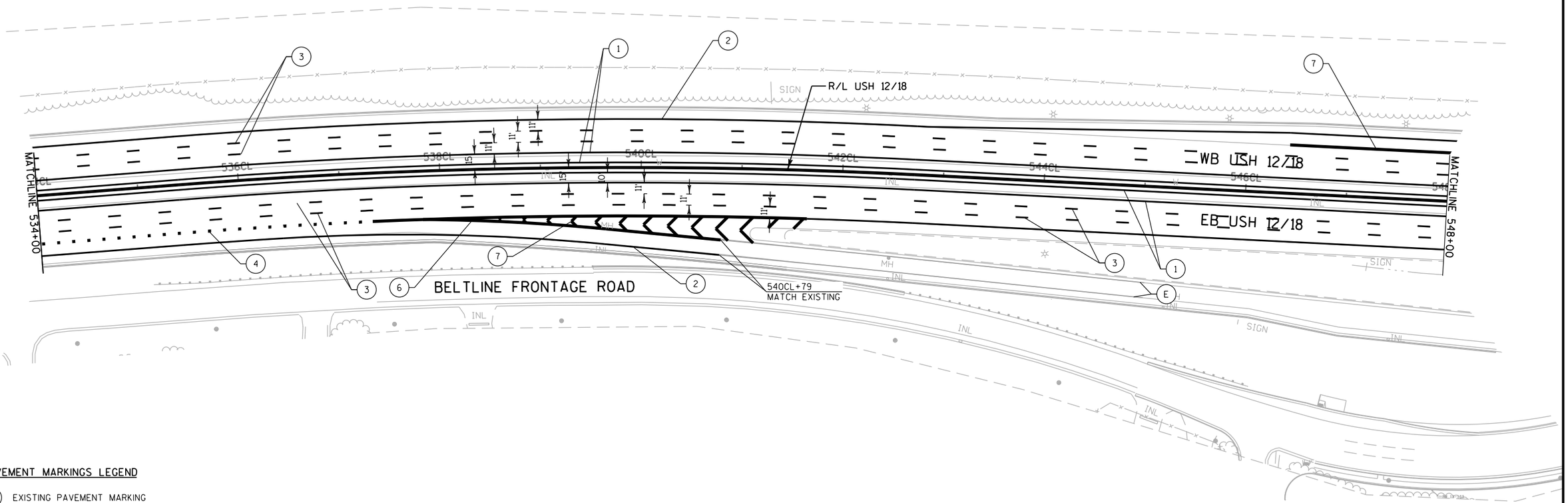
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

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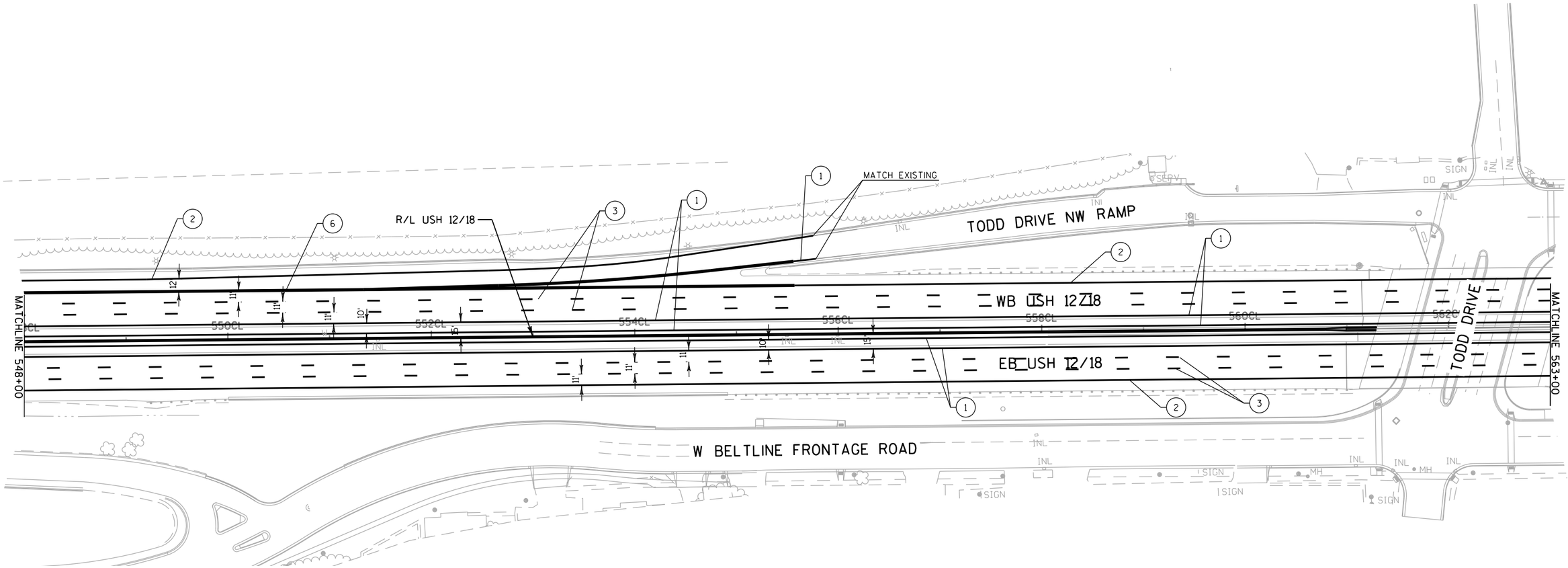


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PROJECT NO:1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

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PAVEMENT MARKINGS LEGEND

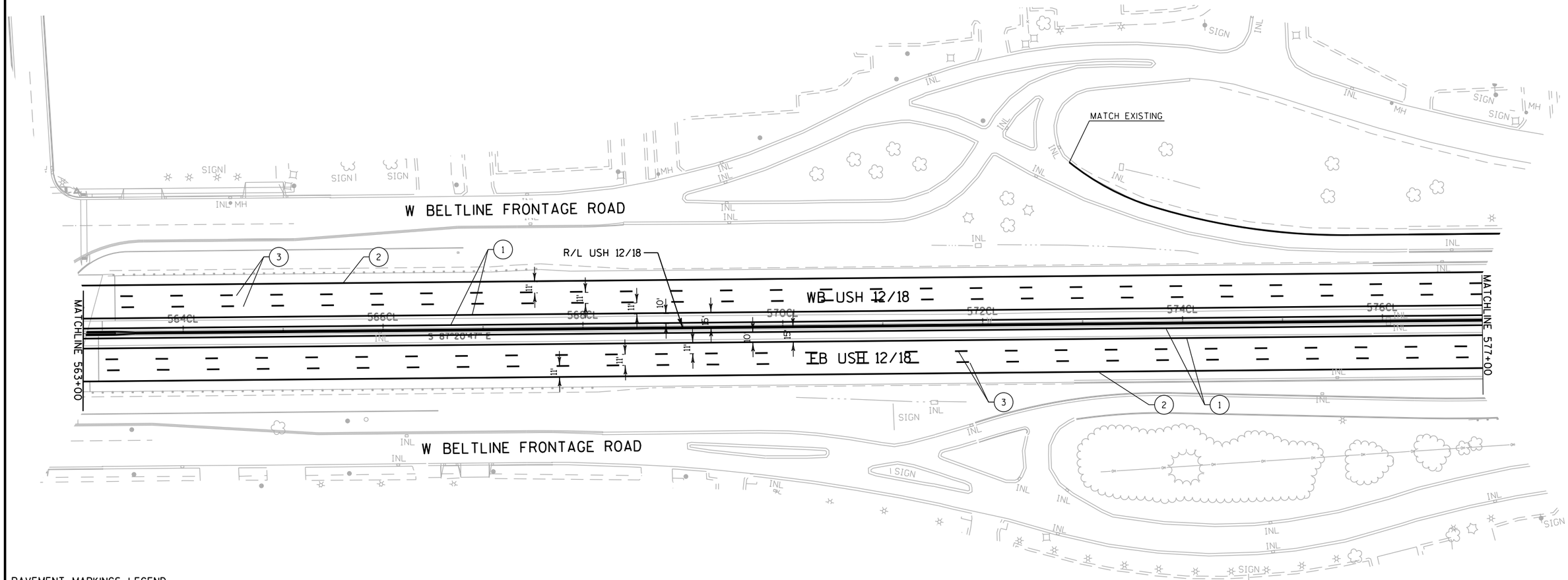
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

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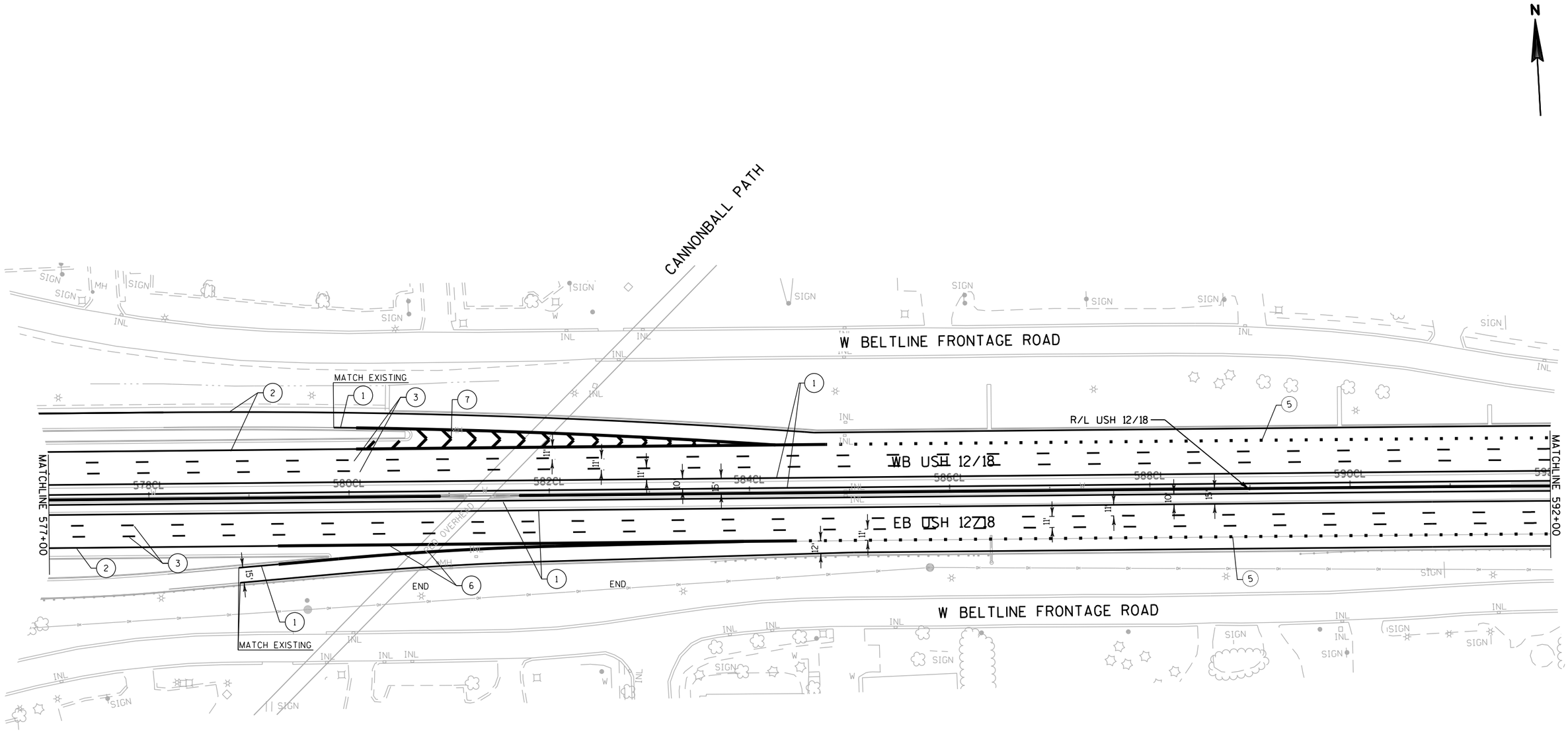
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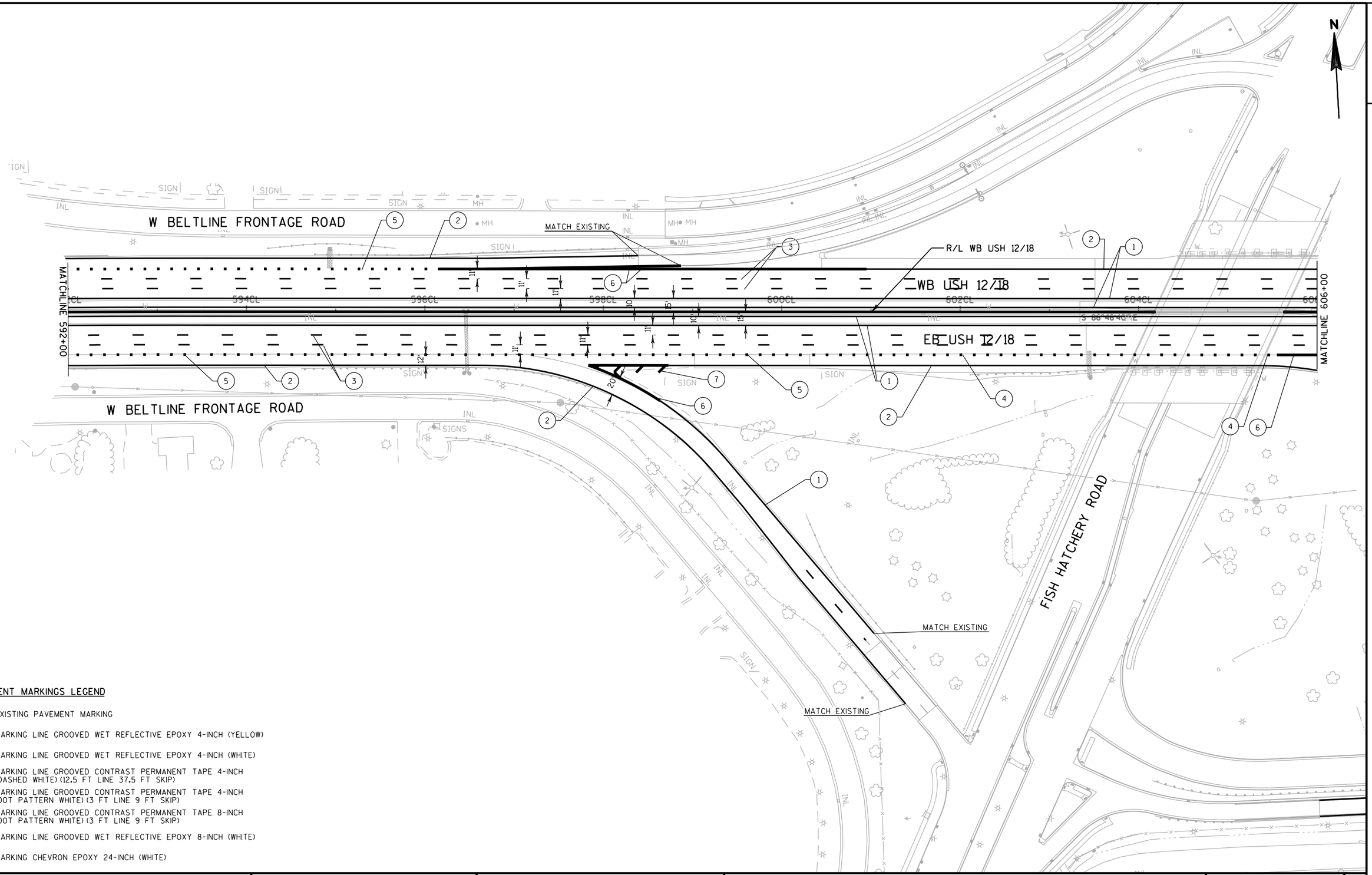


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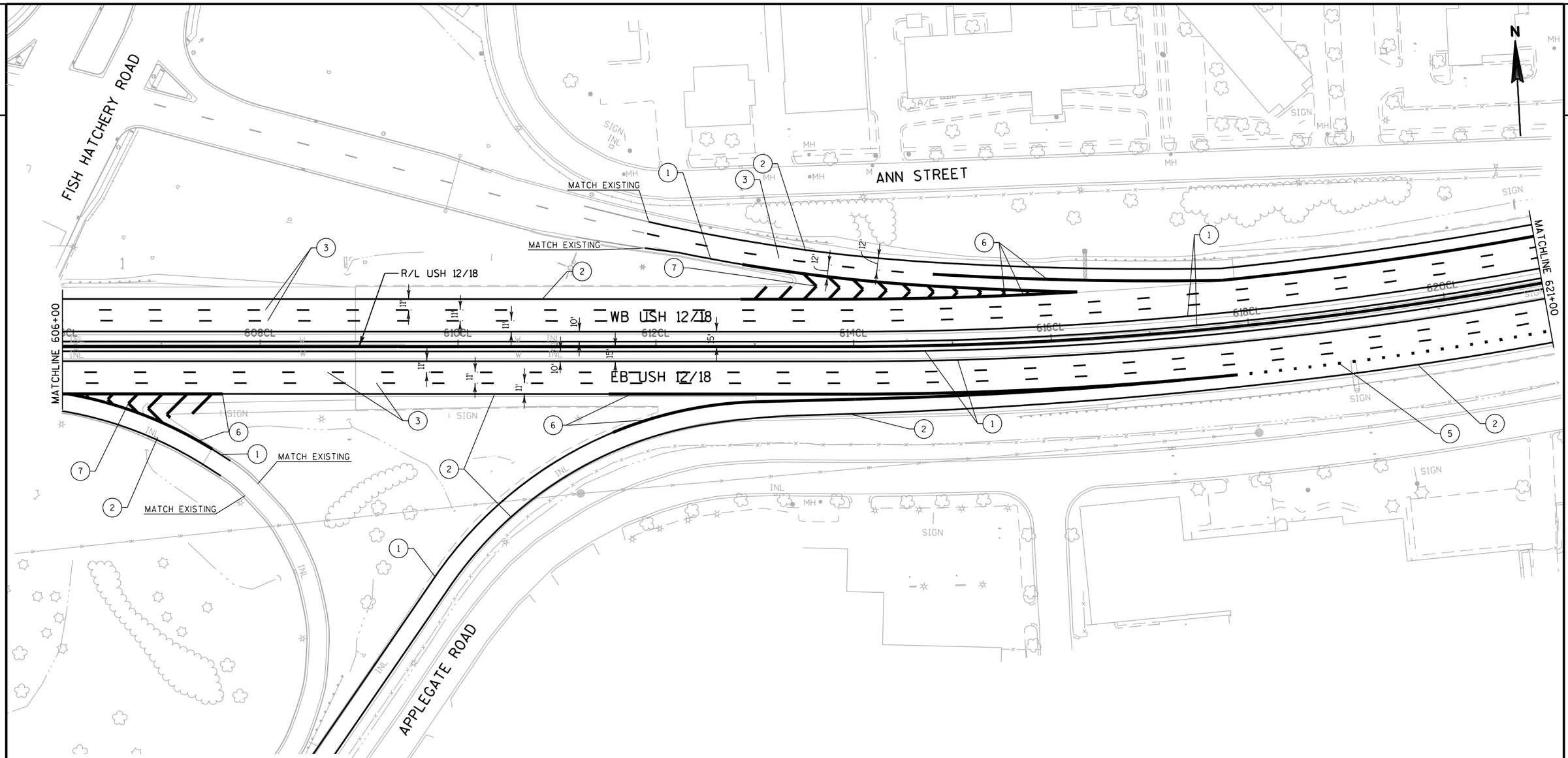


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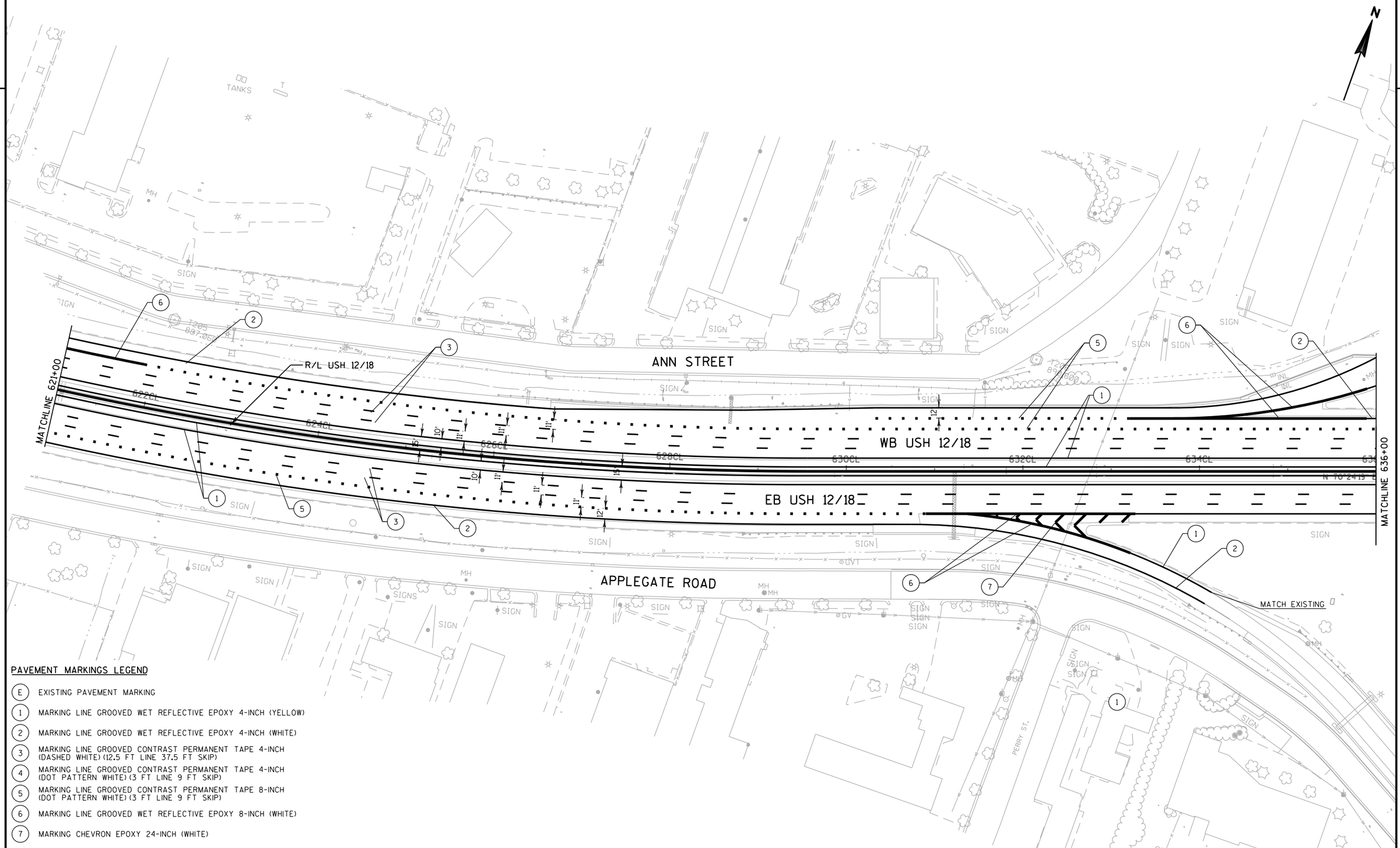


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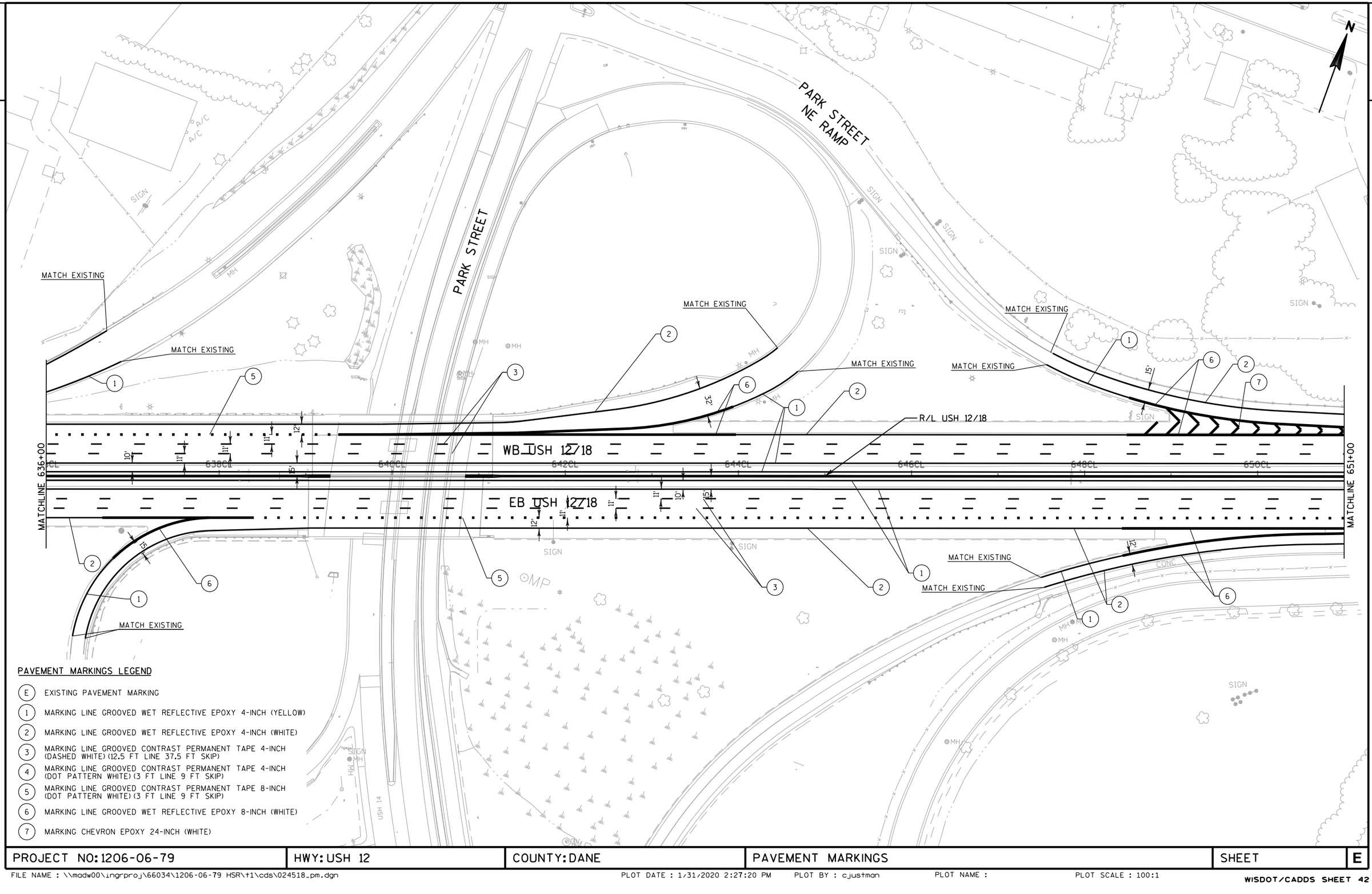


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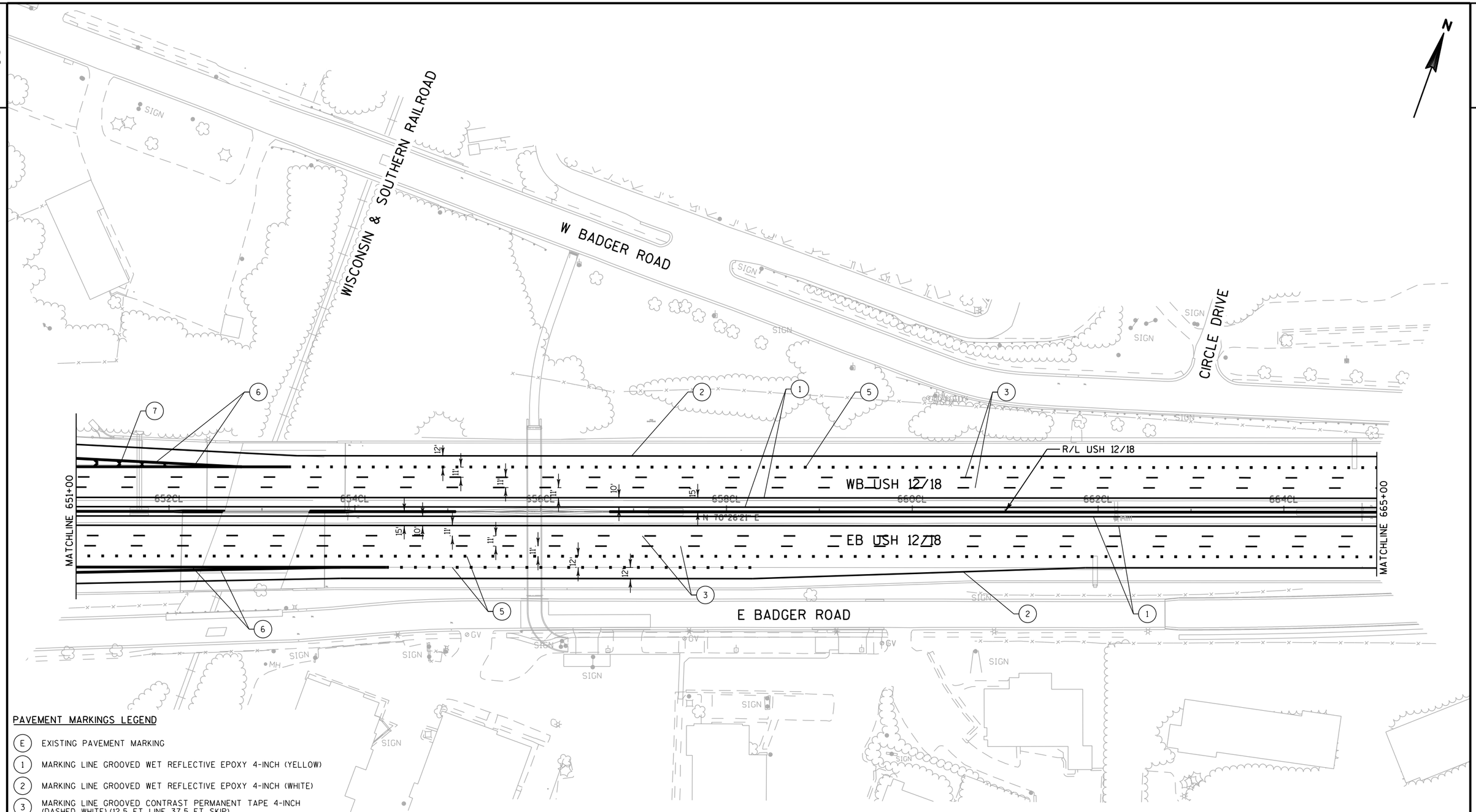


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W BELTLINE FRONTAGE ROAD

RUSK AVE

BELTLINE COURT

RIMROCK ROAD NW RAMP

RIMROCK ROAD SW RAMP

R/L USH 12/18

WB USH 12/18

EB USH 12/18

MATCHLINE 665+00

MATCHLINE 680+00

666CL 668CL 670CL 672CL 674CL 676CL 678CL 680CL

MATCH EXISTING

PLEASANT RIDGE TRAIL

E BADGER ROAD

SIGN

MH

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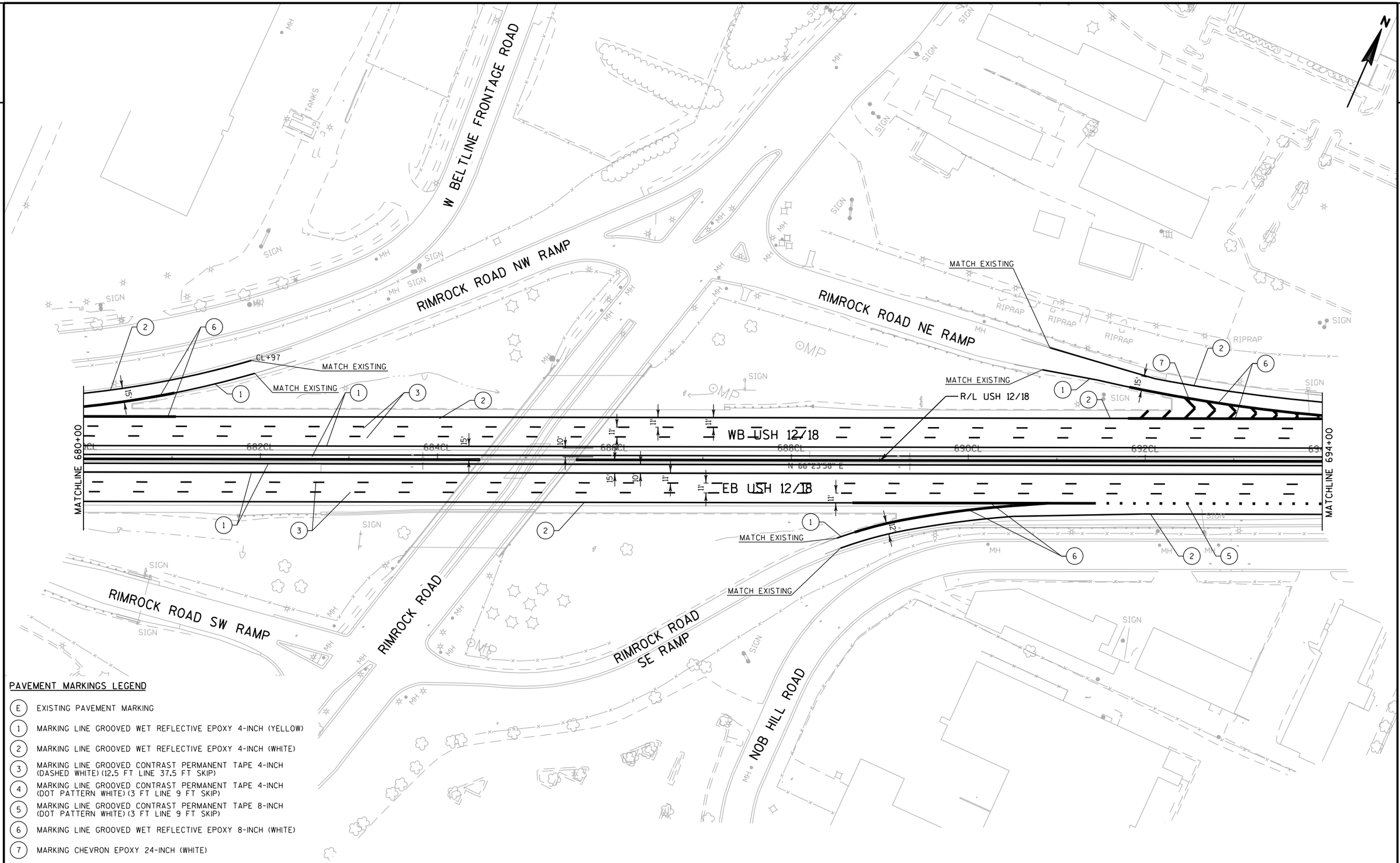
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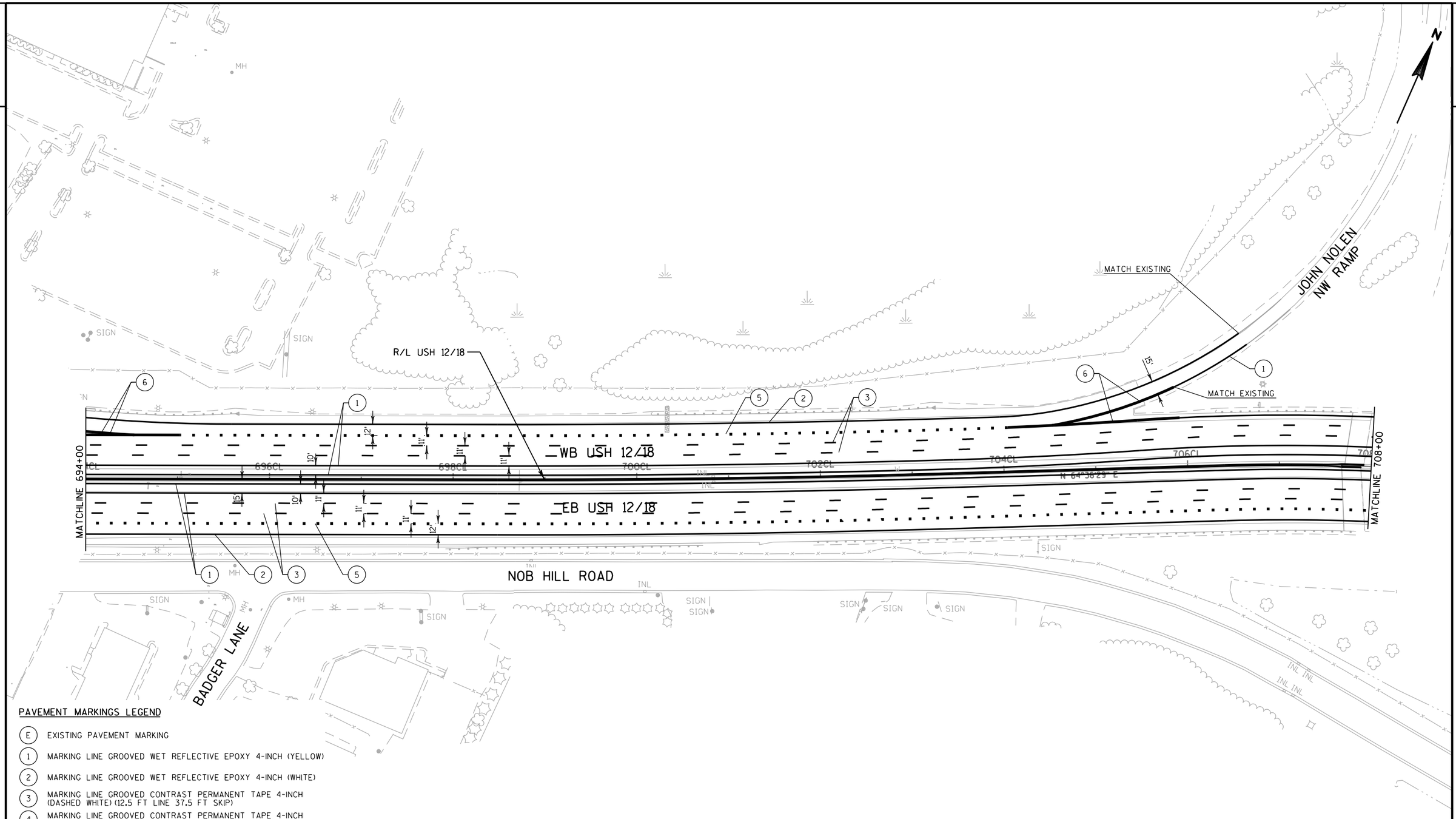


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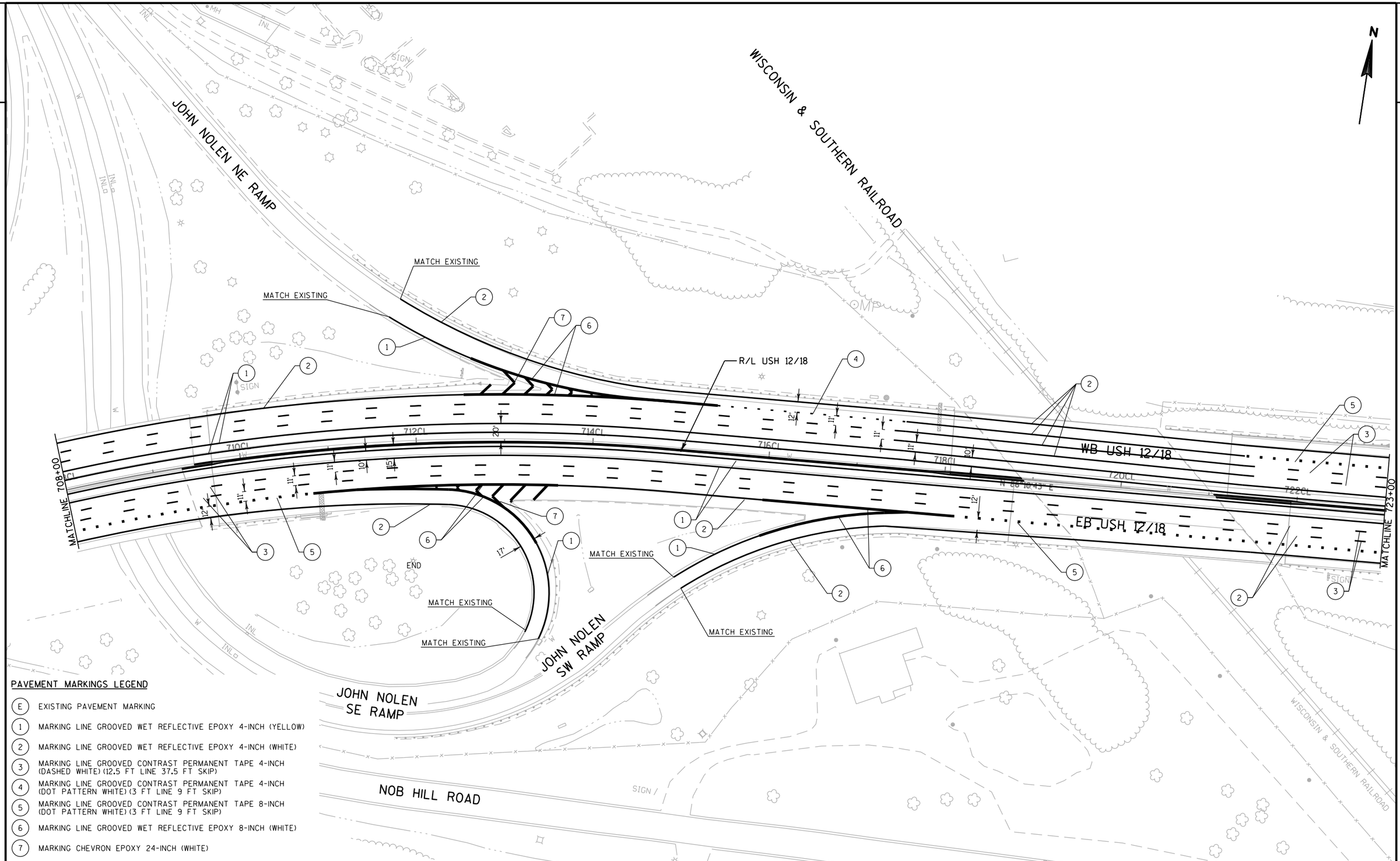


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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

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NANA LANE

ROYAL AVENUE

WB USH 12/18

EB USH 12/18

R/L USH 12/18

MATCHLINE 723+00

MATCHLINE 737+50

724CL 726CL 728CL 730CL 732CL 734CL 736CL

N 85°55'41" E

SIGN INL MH OMP W

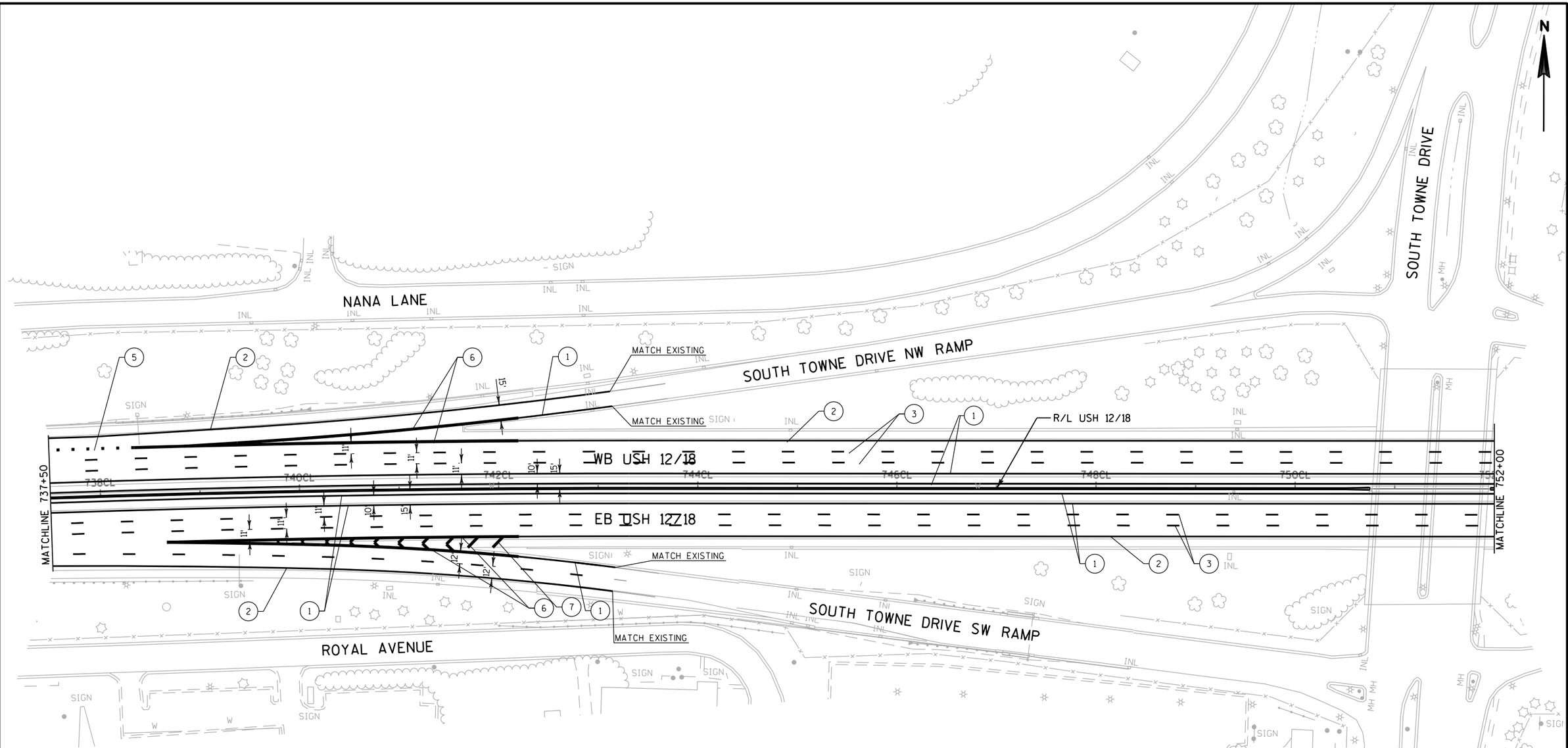
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

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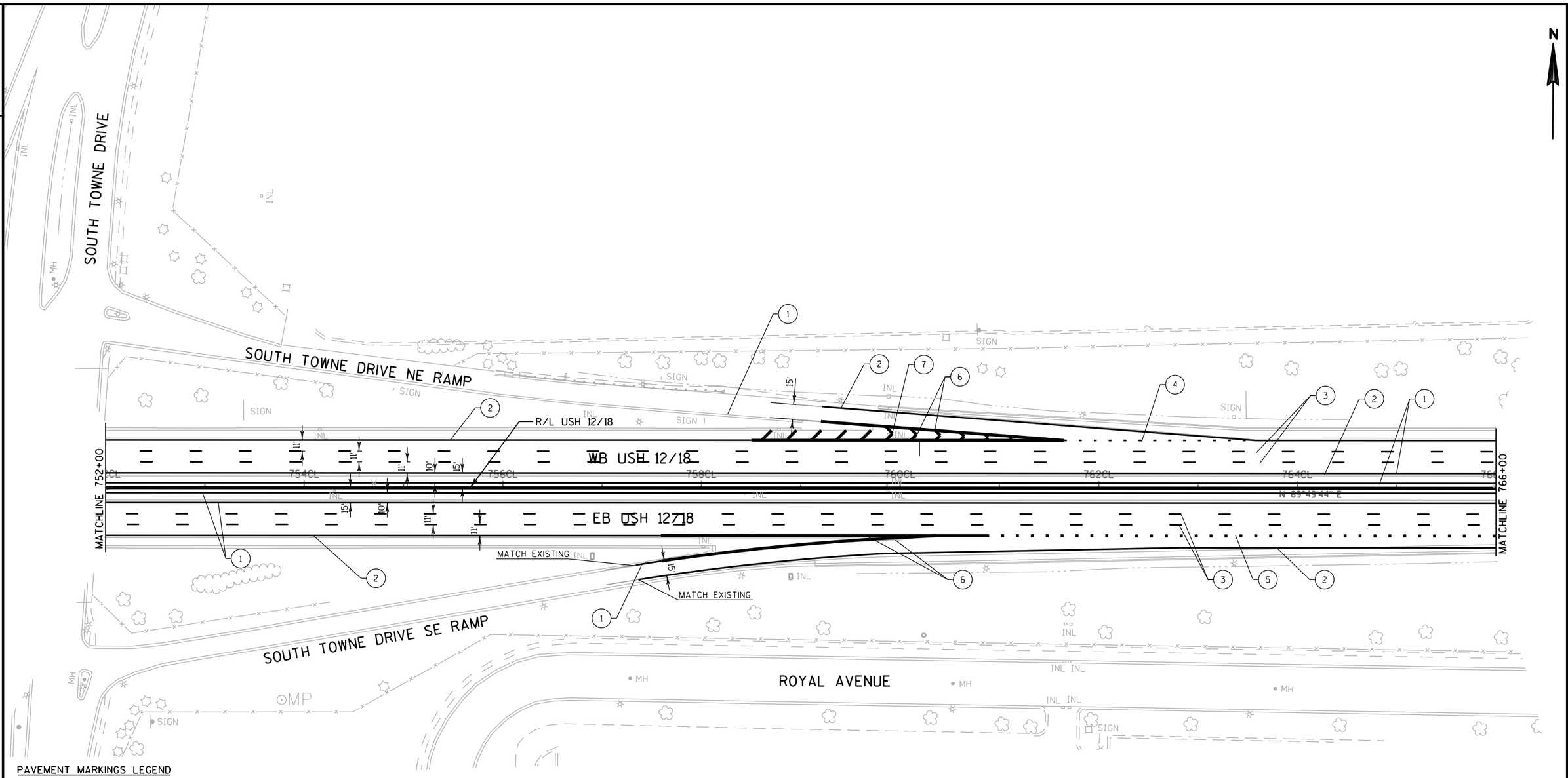
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PAVEMENT MARKINGS LEGEND

- (E) EXISTING PAVEMENT MARKING
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

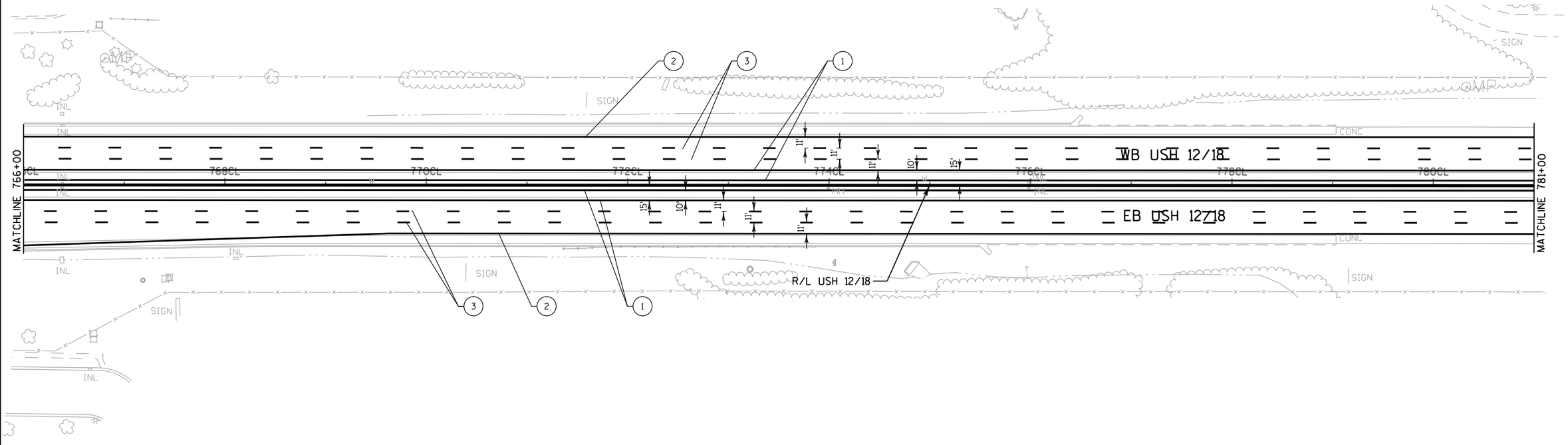


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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

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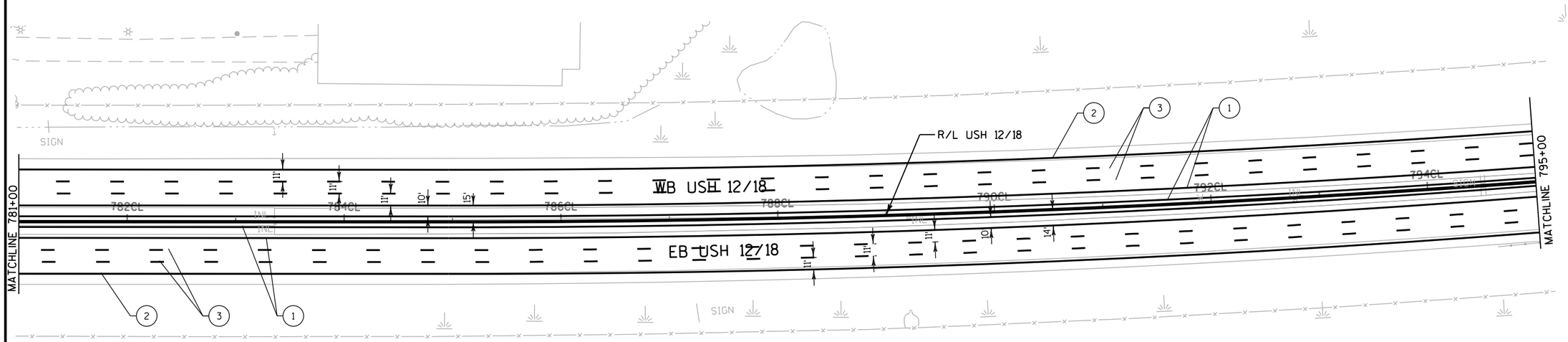
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

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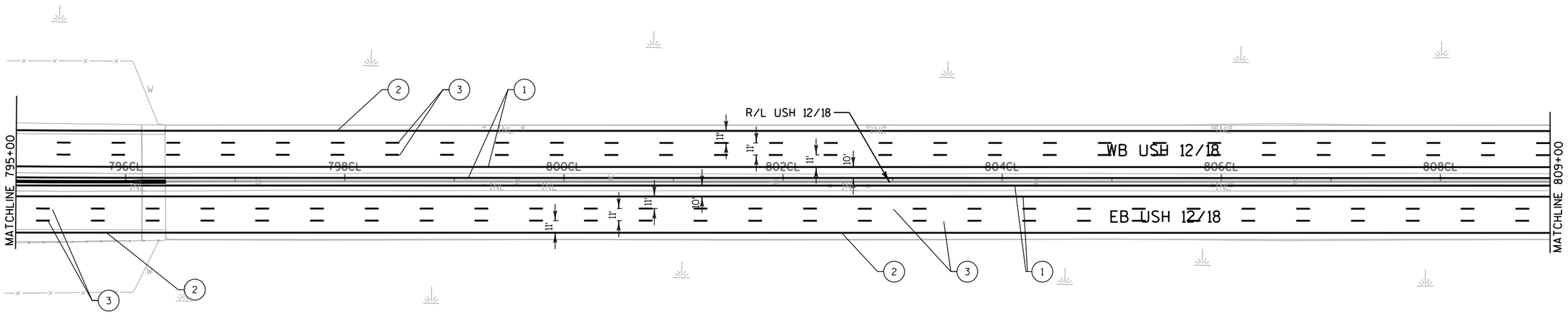
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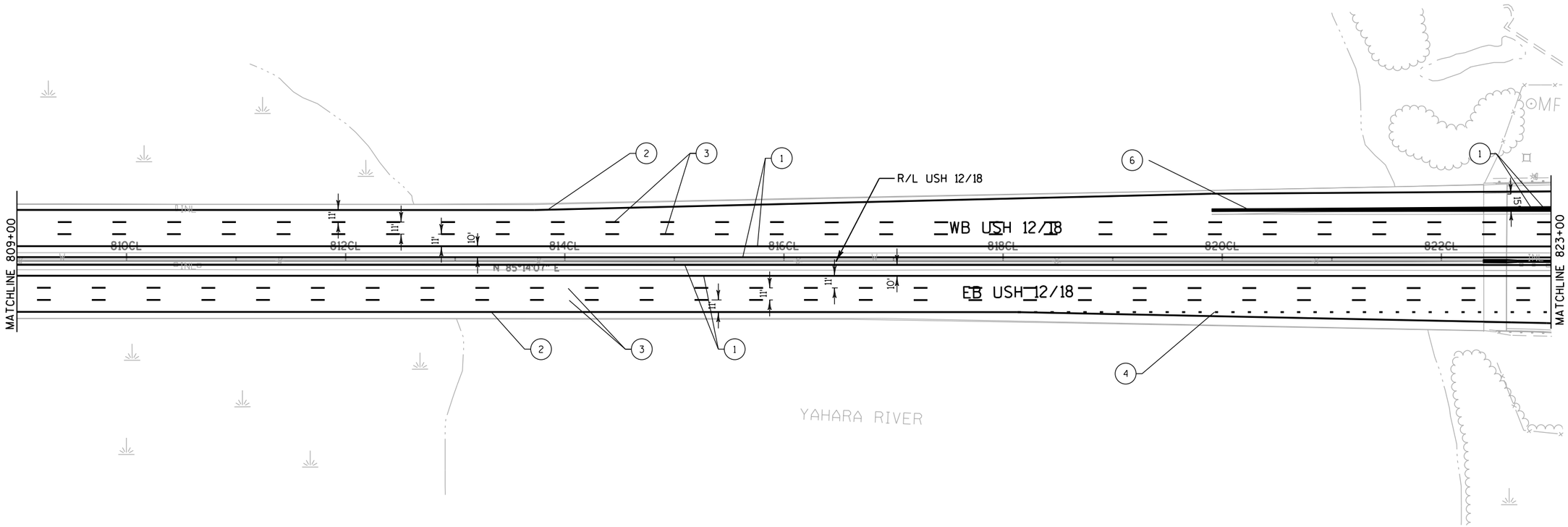
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

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N

MONONA DRIVE

MONONA DRIVE NW RAMP

MONONA DRIVE NE RAMP

MONONA DRIVE SW RAMP

MONONA DRIVE SE RAMP

WB USH 12/18

EB USH 12/18

R/L USH 12/18

BEGIN

MATCH EXISTING

MATCHLINE 823+00

MATCHLINE 837+00

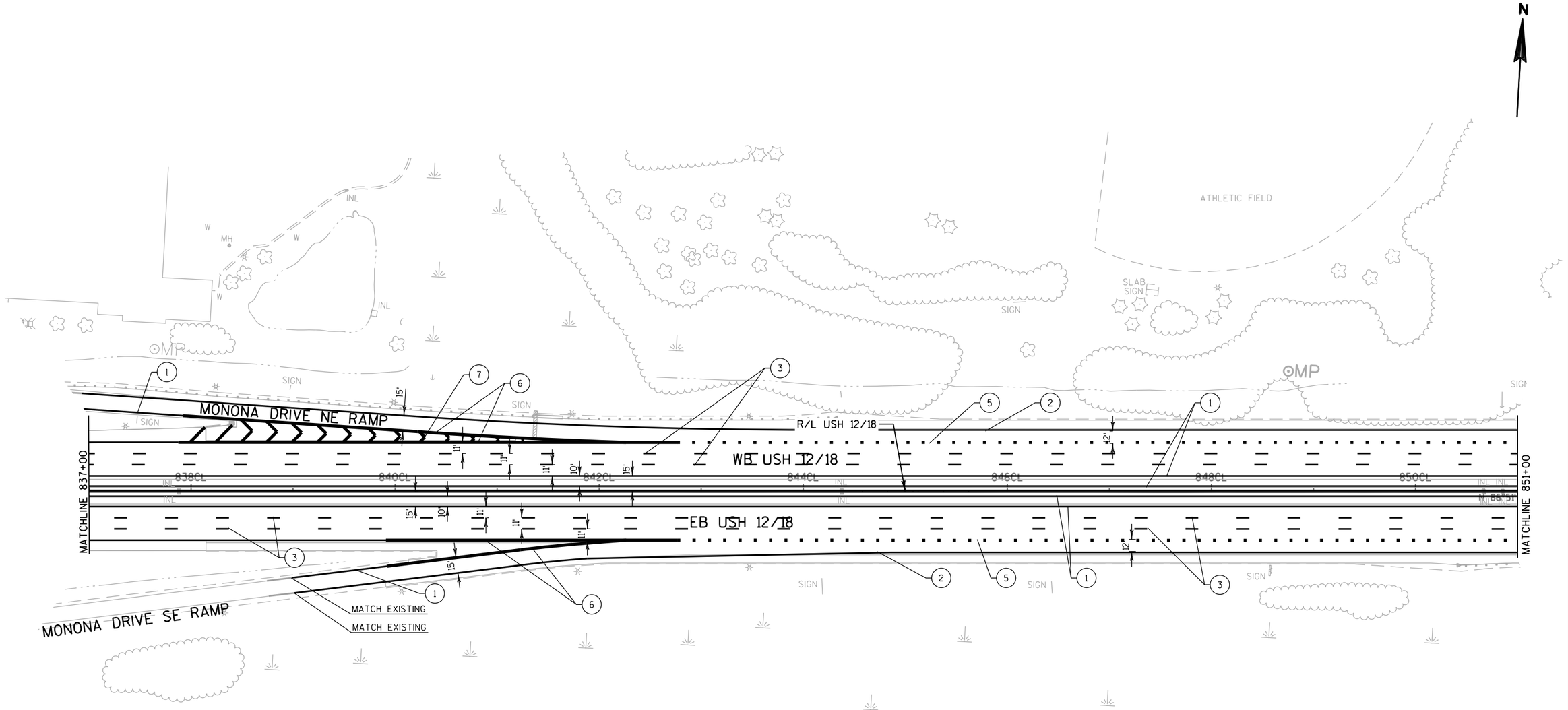
824CL 826CL 828CL 830CL 832CL 834CL 836CL

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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

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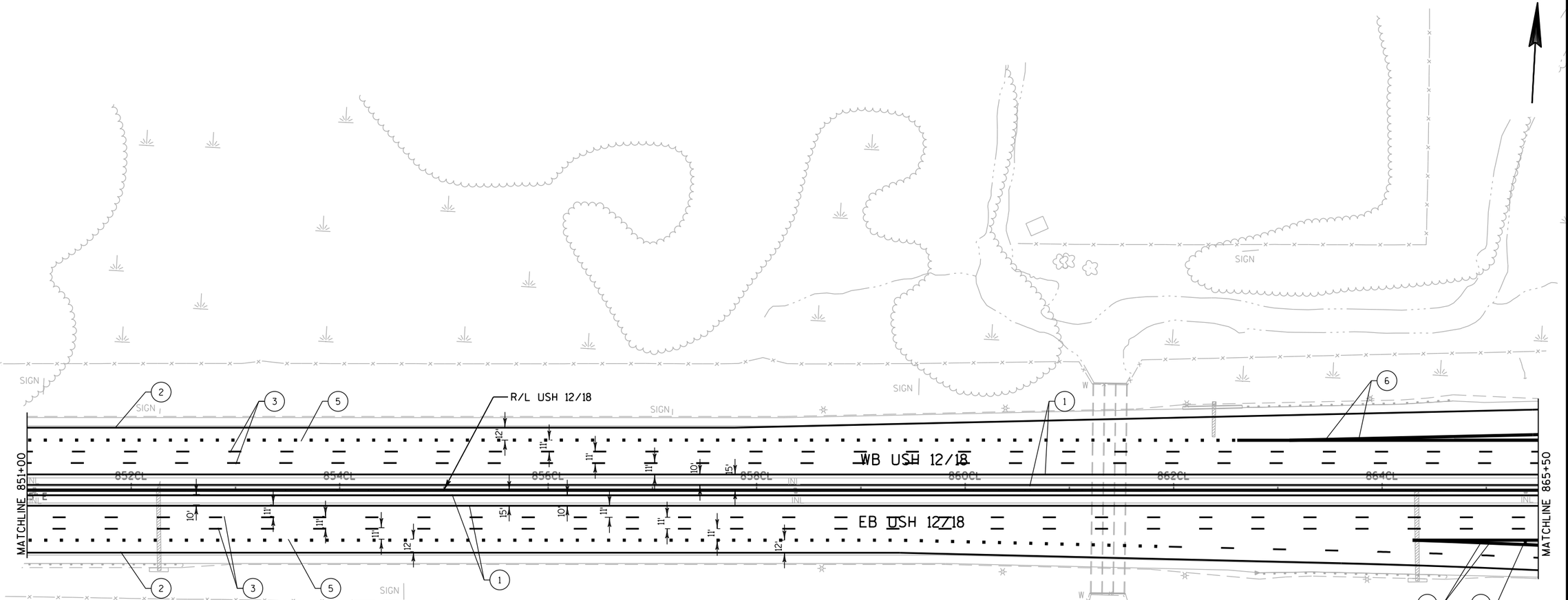


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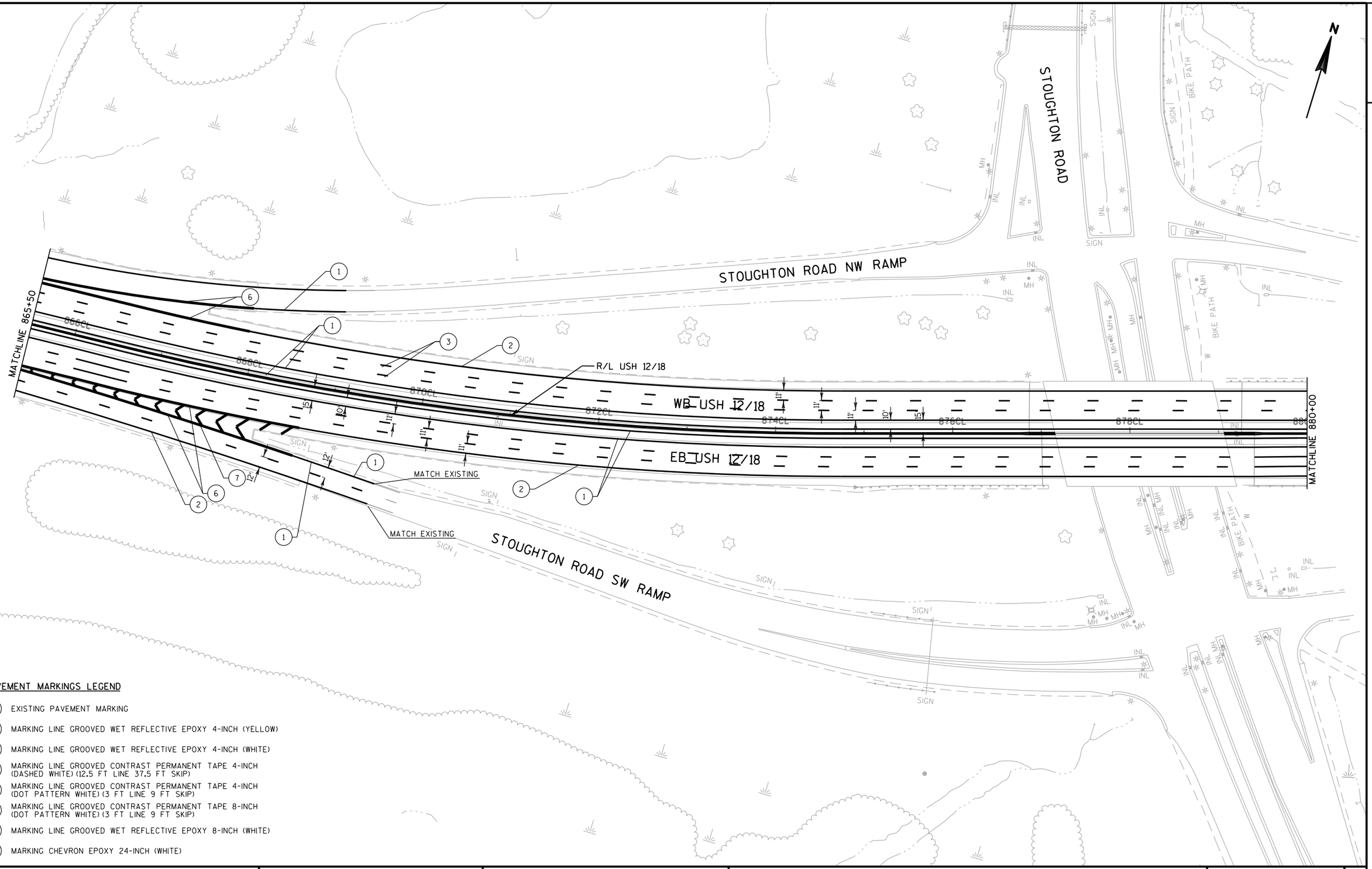


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2

COLLINS COURT

STOUGHTON ROAD NE RAMP

MATCH EXISTING

MATCH EXISTING

MATCH EXISTING

WB USH 12/18

EB USH 12/18

MATCHLINE 880+00

MATCHLINE 895+00

N 73°08'23" E

R/L USH 12/18

STOUGHTON ROAD SE RAMP

MATCH EXISTING

MATCH EXISTING

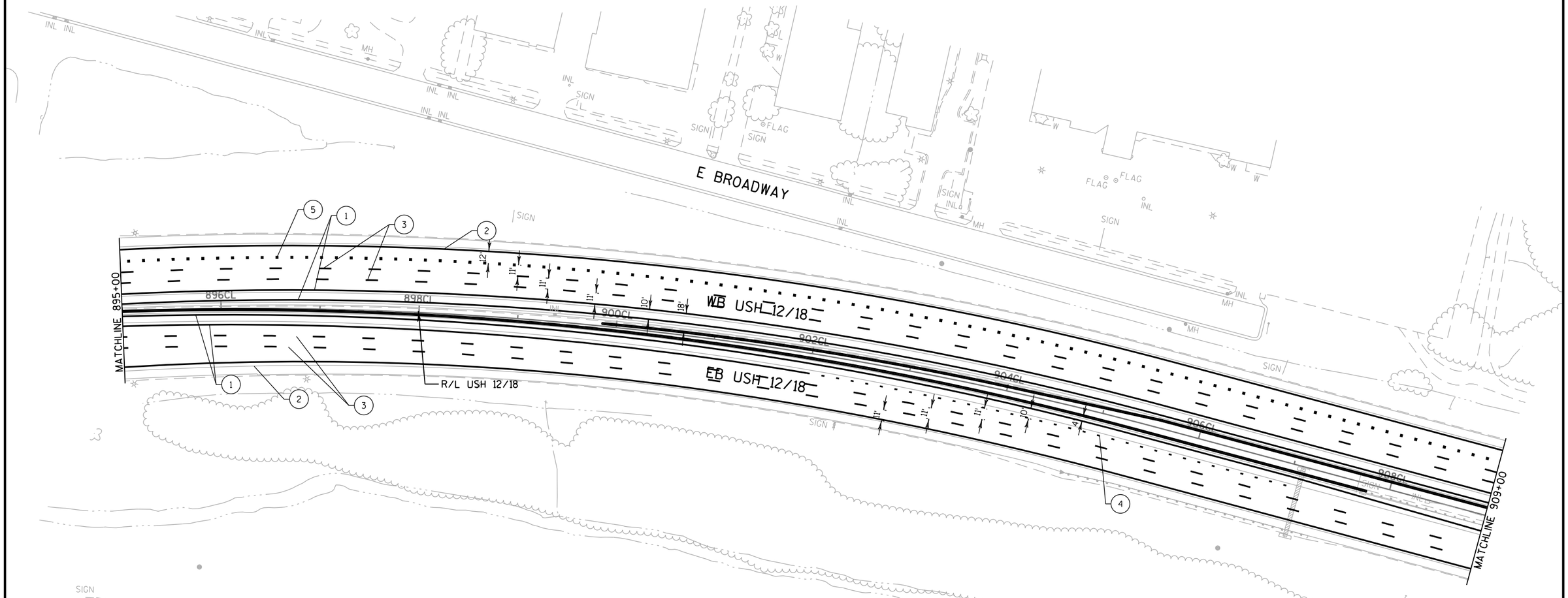
S DUTCH MILLS ROAD

PAVEMENT MARKINGS LEGEND

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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

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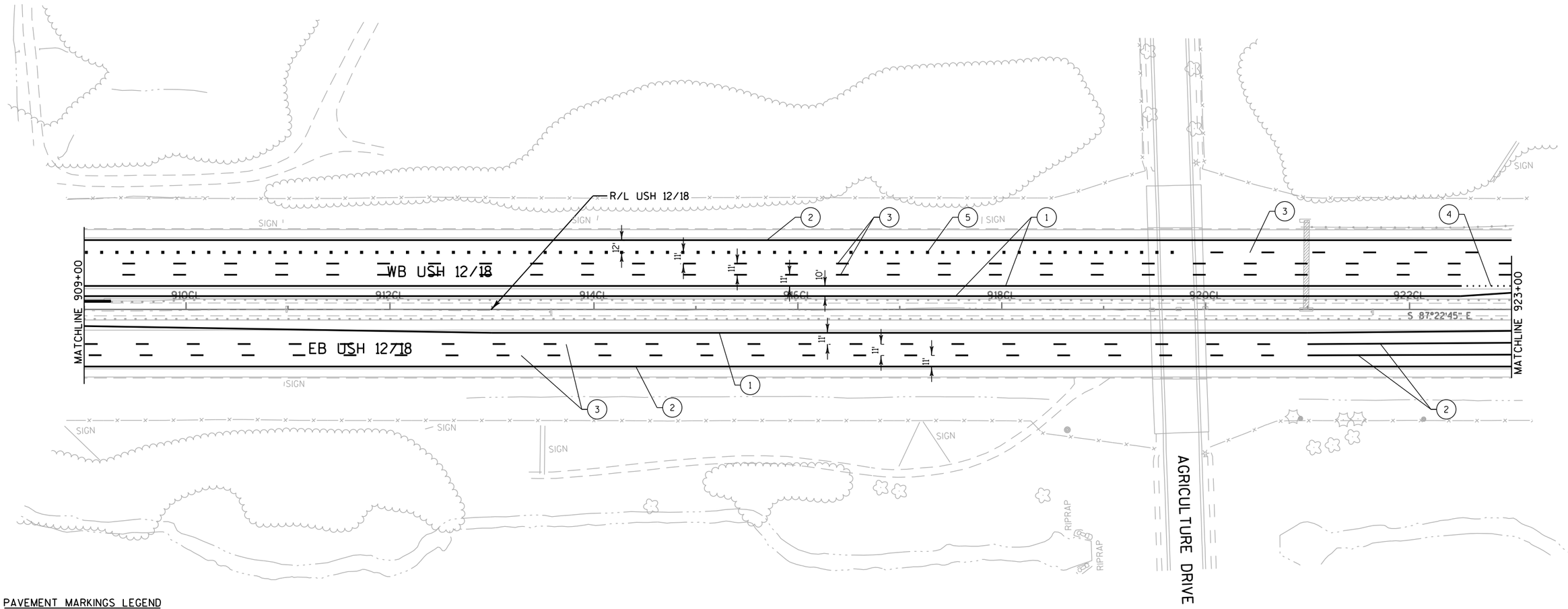


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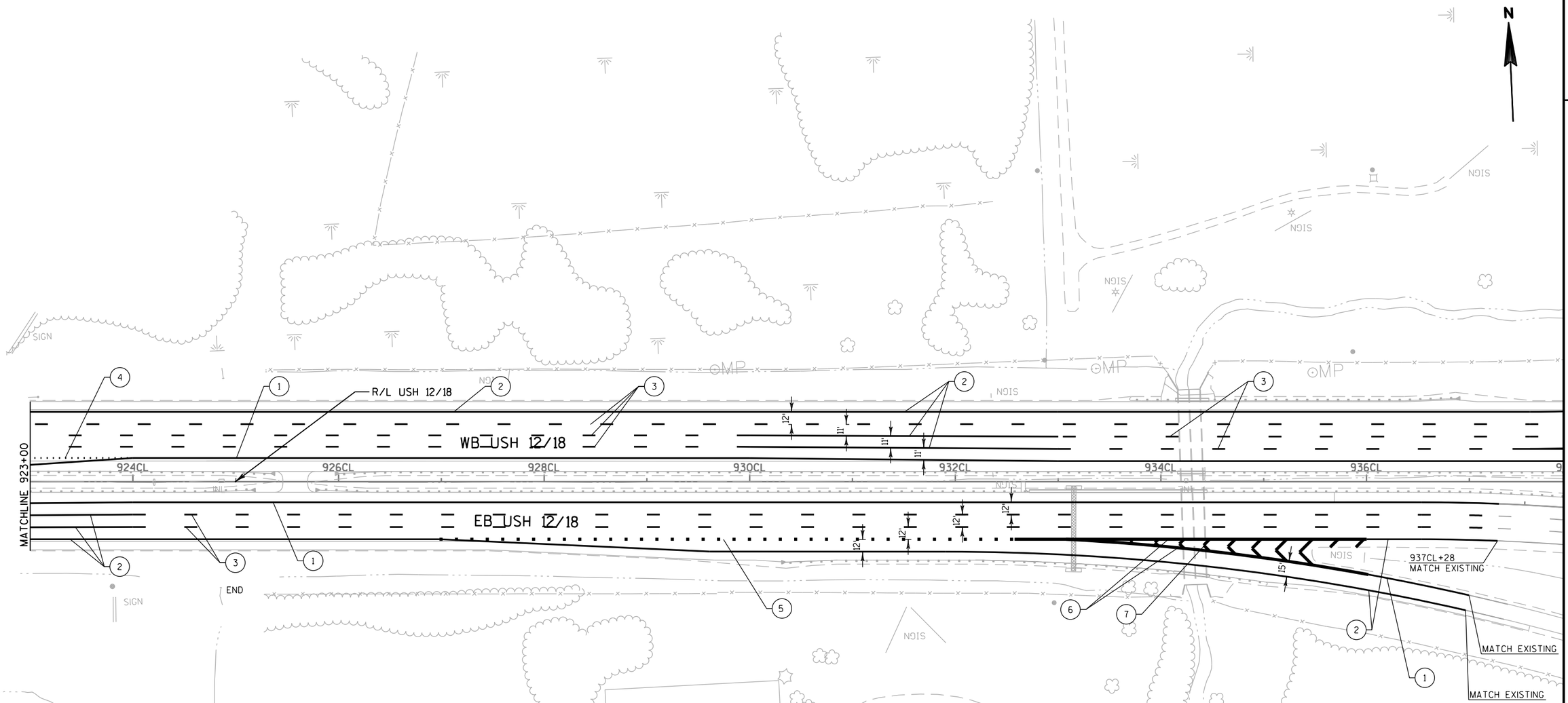
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IH 39 SB TO
USH 12/18 WB RAMP

T030
861.500

268

R/L WB USH 12/18

WB USH 12/18

938CL

2EB

4EB

6EB

8EB

S 64°39'36" E

10EB

12EB

EB USH 12/18

USH 12/18 EB TO
IH 39 SB RAMP

PAVEMENT MARKINGS LEGEND

(E) EXISTING MARKING LINE

(1) MARKING LINE EPOXY 4-INCH (YELLOW)

(2) MARKING LINE EPOXY 4-INCH (WHITE)

(9) MARKING LINE EPOXY 4-INCH (DASHED WHITE)
(12.5 FT LINE 37.5 FT SKIP)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PAVEMENT MARKINGS	SHEET	E

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GENERAL NOTES FOR TRAFFIC CONTROL

1. STATIONING, DISTANCES AND OFFSETS FOR TRAFFIC CONTROL SIGNS SHOWN IN THE PLANS ARE APPROXIMATE. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGN DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
2. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
3. FOR NIGHTTIME OPERATION, ALL DRUMS IN TAPERS SHALL HAVE A TYPE C STEADY BURN WARNING LIGHT.
4. ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE A (LOW INTENSITY FLASHING) LIGHTS.
5. WORK AREAS SHOWN MAY NOT ILLUSTRATE ALL REMOVALS. SEE REMOVAL SHEETS FOR ADDITIONAL INFORMATION.
6. PAVEMENT MARKING THAT IS SHOWN SHADED ON TRAFFIC CONTROL PLANS ARE THERE FOR REFERENCE ONLY. PAVEMENT MARKING SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
7. ALL PAVEMENT MARKING STATIONING IN TRAFFIC CONTROL PLANS HAVE THE PREFIX OF THE ALIGNMENT THAT IT IS MEASURED OFF OF, IN THE STATION CALLOUT.
8. FOR ALL CONCRETE BARRIER TEMPORARY PRECAST, THERE WILL BE DELINEATORS ATTACHED PER STANDARD DETAIL DRAWING CONCRETE BARRIER TEMPORARY PRECAST 12'-6". PLACE REFLECTORS OF THE APPROPRIATE COLOR ON BOTH SIDES OF THE DELINEATOR.
9. SEE S.D.D. 15D12 "TRAFFIC CONTROL, LANE CLOSURE", S.D.D. 15D14 "TRAFFIC CONTROL, TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT-TERM (LESS THAN 24 HOURS)" AND S.D.D. 15D27 "TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H." FOR SHOULDER AND LANE CLOSURE DETAILS.
10. NUMBER, LOCATION, AND SPACING OF TRAFFIC CONTROL DEVICES AND SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
11. SIGNS IN CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED AS DIRECTED BY THE ENGINEER AND PAID FOR UNDER THE ITEM "TRAFFIC CONTROL COVERING SIGNS TYPE 1 OR TYPE 2."
12. EXISTING LANE WIDTHS ARE BASED ON AS-BUILT DATA AND MAY VARY IN THE FIELD. VERIFY WIDTHS PRIOR TO SETTING TRAFFIC CONTROL TO ENSURE PROPER LANE WIDTHS ARE ACHIEVED.
13. TURNING TRAFFIC CONTROL DEVICES WHEN NOT IN USE TO OBSCURE THE MESSAGE IS NOT ALLOWED.
14. TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
15. SHOULDERS MAY BE CLOSED IF REQUIRED BY WORK OPERATIONS, BUT THE RIGHT AND LEFT SHOULDER MAY NOT BE CLOSED IN THE SAME AREA AT THE SAME TIME. ALL SHOULDER CLOSURES MUST PROVIDE TRAFFIC CONTROL DEVICES PER THE "TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 M.P.H." SDD.
16. AT THE CONCLUSION OF EACH NIGHT'S WORK PLACING AN ASPHALT OVERLAY, INCLUDE A NOTCHED WEDGE LONGITUDINAL JOINT FOR ALL DROPOFF CONDITIONS BETWEEN TRAVEL LANES OR BETWEEN TRAVEL LANES AND SHOULDERS AS DIRECTED BY THE ENGINEER. DO NOT PLACE MARKING LINE EPOXY ON THE ASPHALT IF THE NOTCHED WEDGE LONGITUDINAL JOINT WILL BE REMOVED. IN THIS SCENARIO PLACE TEMPORARY MARKING LINE EPOXY ON THE NOTCHED WEDGE LONGITUDINAL JOINT AT THE EXISTING LANE OR EDGE OF PAVEMENT MARKING.

PRE-WORK STAGE TRAFFIC AND CONSTRUCTION

THE PRE-WORK STAGE CONSISTS OF CONFIGURING TRAFFIC CONTROL DEVICES, PROVIDING PRE-WARNING DEVICES, AND PLACING EROSION CONTROL MEASURES. ALL WORK WILL BE COMPLETED DURING ALLOWABLE NIGHTTIME CLOSURE HOURS WHILE MAINTAINING AT LEAST ONE LANE OF TRAFFIC AND 16-FEET OF CLEAR WIDTH AT ALL TIMES.

STAGE 1 TRAFFIC AND CONSTRUCTION

STAGE 1 CONSISTS OF INCLUDES BARRIER WALL REMOVAL AND CONSTRUCTION OF NEW MEDIAN SIGN STRUCTURES WEST OF SEMINOLE HIGHWAY, STORM SEWER CROSSING INSTALLATIONS BENEATH THE BELTLINE, OUTSIDE SHOULDER WIDENING BETWEEN TODD DRIVE AND FISH HATCHERY ROAD EB AND WB, TODD DRIVE RAMP PAVEMENT REPAIRS, CRASH INVESTIGATION SITE INSTALLATIONS, AND FISH HATCHERY EB OFFRAMP PAVEMENT REHABILITATION.

TEMPORARY CONCRETE BARRIER WILL BE USED TO PROTECT SIGN STRUCTURE INSTALLATIONS. NIGHTTIME LANE CLOSURES MAY BE USED FOR ADDITIONAL WORKZONE SPACE.

TEMPORARY CONCRETE BARRIER WILL BE USED TO PROTECT THE OUTSIDE SHOULDER WIDENING BETWEEN TODD DRIVE AND FISH HATCHERY ROAD. CLOSURES OF THE WB TODD DRIVE OFFRAMP, TODD DRIVE EB ONRAMP, AND FISH HATCHERY ROAD EB TO SB OFFRAMP ARE ALLOWED.

FISH HATCHERY ROAD EB ONRAMP PAVEMENT REHABILITATION CANNOT BE DONE CONCURRENTLY WITH FISH HATCHERY EB TO SB OFFRAMP CLOSURE WORK. CLOSURE OF THIS RAMP IS ALLOWED AT A SEPARATE TIME.

PERFORM TODD DRIVE EB OFFRAMP CRASH INVESTIGATION SITE CONSTRUCTION DURING NIGHTTIME RAMP CLOSURES.

CONCRETE PAVEMENT BASE PATCHING CAN BE PERFORMED DURING NIGHTTIME LANE CLOSURES.

STAGE 1B TRAFFIC AND CONSTRUCTION

STAGE 1B CONSISTS OF PLACING THE BINDER AND SURFACE ASPHALT LIFTS ON OUTSIDE SHOULDERS AND THE SURFACE ASPHALT LIFT ON GENERAL PURPOSE AND AUXILIARY LANES. ASPHALT PLACEMENT WILL BE SEQUENCED IN ORDER TO BEGIN MEDIAN WORK AS SOON AS POSSIBLE. SOME ASPHALT WORK WILL RUN CONCURRENTLY WITH STAGE 2 MEDIAN WORK THOUGH IN SEPARATE LOCATIONS.

PERMANENT GROOVED PAVEMENT MARKINGS MAY BE PLACED WHEN CONVENIENT TO THE CONTRACTOR DURING STAGE 1B OR STAGE 2.

STAGE 2 TRAFFIC AND CONSTRUCTION

ALL MEDIAN CONSTRUCTION BETWEEN SEMINOLE HIGHWAY AND I-39/90 WILL BE PERFORMED INCLUDING PLACING TEMPORARY CONCRETE BARRIER AND MOVABLE CONCRETE BARRIER, MEDIAN BARRIER AND PAVEMENT REMOVALS, STORM SEWER INSTALLATION, MEDIAN SIGN STRUCTURE INSTALLATION, STRUCTURE PIER INFILL WALLS, MEDIAN BARRIER TRANSITIONS, SHOULDER CONCRETE PAVEMENT, AND CONCRETE BARRIER. ITS CABINET INSTALLATIONS AND CONDUIT BORINGS WILL NEED TO BE SEQUENCED IN CONCERT WITH MEDIAN REMOVALS AND SIGN STRUCTURE INSTALLATIONS.

STAGE 2 CONSTRUCTION IS BROKEN INTO FOUR SEGMENTS PROTECTED BY TEMPORARY AND MOVABLE CONCRETE BARRIER AS FOLLOWS:

- SEGMENT 1: SEMINOLE HIGHWAY TO FISH HATCHERY ROAD
- SEGMENT 2: FISH HATCHERY ROAD TO RIMROCK ROAD
- SEGMENT 3: RIMROCK ROAD TO YAHARA RIVER BRIDGE
- SEGMENT 4: YAHARA RIVER BRIDGE TO I-39/90

SEQUENCE OF SEGMENT CONSTRUCTION IS AS FOLLOWS:

1. BEGIN SEGMENT 3 CONSTRUCTION ONCE ASPHALT OVERLAY IS PLACED TO ALLOW INSTALLATION OF CRITICAL TEMPORARY AND MOVABLE CONCRETE BARRIER.
2. BEGIN SEGMENT 1 CONSTRUCTION ONCE ASPHALT OVERLAY IS PLACED TO ALLOW INSTALLATION OF CRITICAL TEMPORARY AND MOVABLE CONCRETE BARRIER.
3. BEGIN SEGMENT 4 CONSTRUCTION ONCE ASPHALT OVERLAY IS PLACED TO ALLOW INSTALLATION OF CRITICAL TEMPORARY AND MOVABLE CONCRETE BARRIER. MOVABLE CONCRETE BARRIER TO BE MOVED FROM SEGMENT 3 AND INSTALLED IN SEGMENT 4.
4. SEGMENT 2 CONSTRUCTION ONCE ASPHALT OVERLAY IS PLACED TO ALLOW INSTALLATION OF CRITICAL TEMPORARY AND MOVABLE CONCRETE BARRIER. MOVABLE CONCRETE BARRIER TO BE MOVED FROM SEGMENT 1 AND INSTALLED IN SEGMENT 2.

NIGHTTIME LANE CLOSURES ARE ALLOWED IN CONJUNCTION WITH SHIFTING THE MOVABLE BARRIER TO PROVIDE ADEQUATE MEDIAN WORKZONE SPACE.

STAGE 3 TRAFFIC AND CONSTRUCTION

STAGE 3 CONSISTS OF FINAL MEDIAN SHOULDER ASPHALT OVERLAY PAVING. MILL TEMPORARY ASPHALT WEDGE AND PAVE BINDER AND SURFACE LIFTS OF ASPHALT PAVEMENT. INLET ADJUSTMENTS ARE ALSO INCLUDED AS PART OF THIS STAGE.

FINAL GROOVED PAVEMENT MARKINGS ON MEDIAN SHOULDER TO BE INSTALLED.

INSTALLATION OF DYNAMIC SIGNS AND OTHER ITS COMPONENTS CAN BE INSTALLED BY CONTRACT AT THEIR CONVENIENCE. FIELD TESTING OF ITS EQUIPMENT WILL BE PERFORMED ONCE ALL ITEMS ARE INSTALLED.

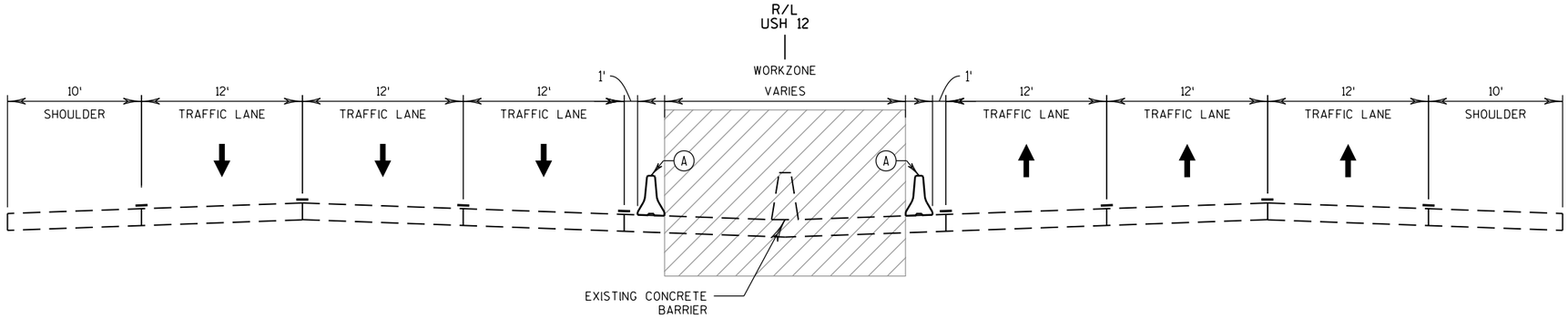
MISCELLANEOUS TRAFFIC AND CONSTRUCTION

BEAMGUARD INSTALLATIONS/ADJUSTMENTS AND NEW SIGN STRUCTURES ON OUTSIDE SHOULDERS BETWEEN SEMINOLE HIGHWAY AND I-39/90 CAN BE SEQUENCED WHEN CONVENIENT TO CONTRACTOR DURING NIGHTTIME LANE CLOSURES. CONTRACTOR MUST INSTALL BEAMGUARD WHEN NECESSARY TO PROTECT ROADSIDE HAZARDS.

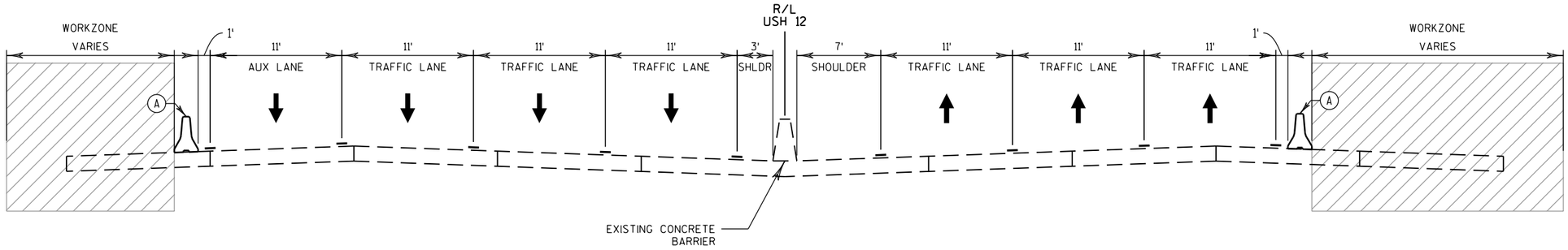
SIGN BRIDGE REMOVAL AND INSTALLATION TO BE PERFORMED WITH NIGHTTIME ROLLING CLOSURES.

2

2



STAGING TYPICAL SECTION: STAGE 1 SIGN STRUCTURE REPLACEMENT



STAGING TYPICAL SECTION: STAGE 1 TODD DRIVE WIDENING

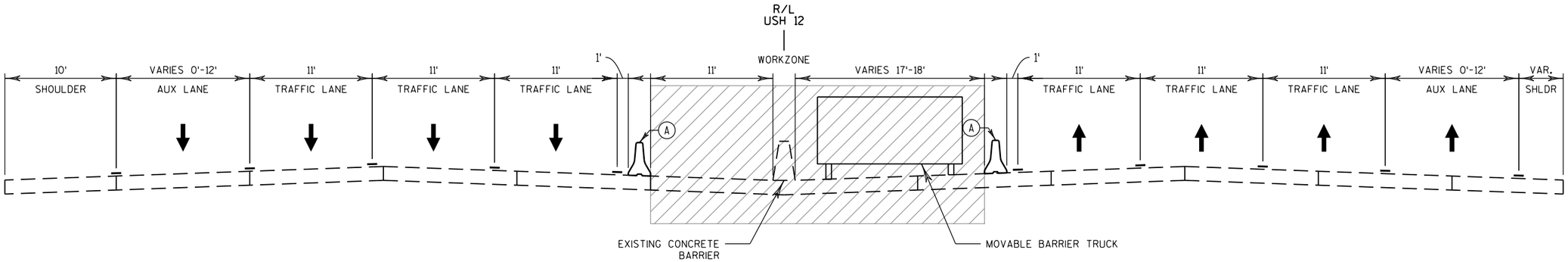
LEGEND

(A) CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN

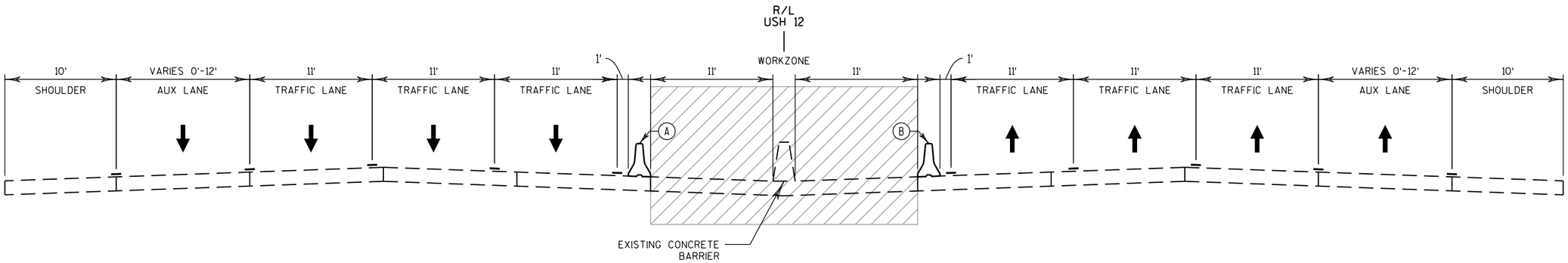
TRAFFIC FLOW

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS: TRAFFIC CONTROL FOR MEDIAN CONSTRUCTION	SHEET	E

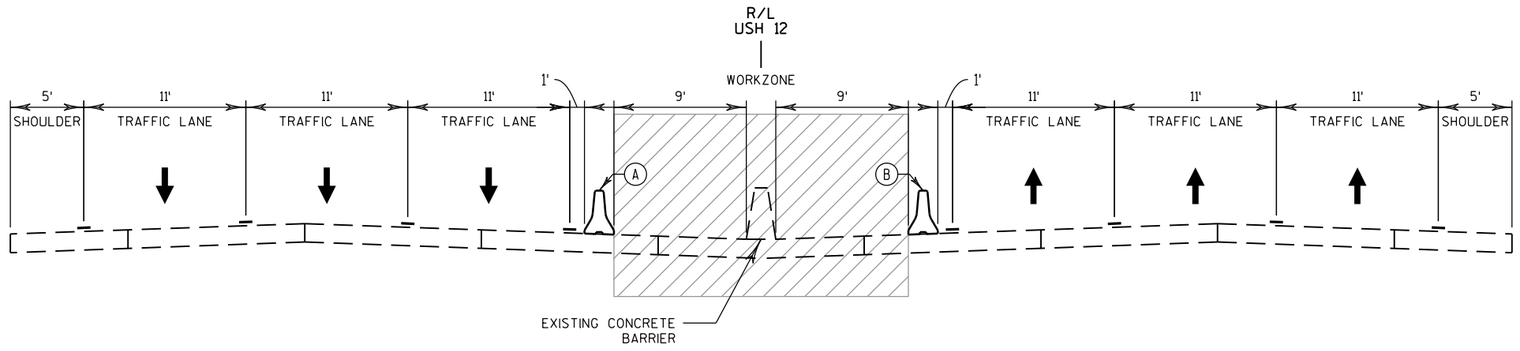
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STAGING TYPICAL SECTION: STAGE 2 MOVABALE BARRIER TRUCK STORAGE LOCATIONS



STAGING TYPICAL SECTION: STAGE 2 MEDIAN SHOULDER CONSTRUCTION



STAGING TYPICAL SECTION: STAGE 2 MEDIAN SHOULDER CONSTRUCTION AT YAHARA RIVER BRIDGE

LEGEND

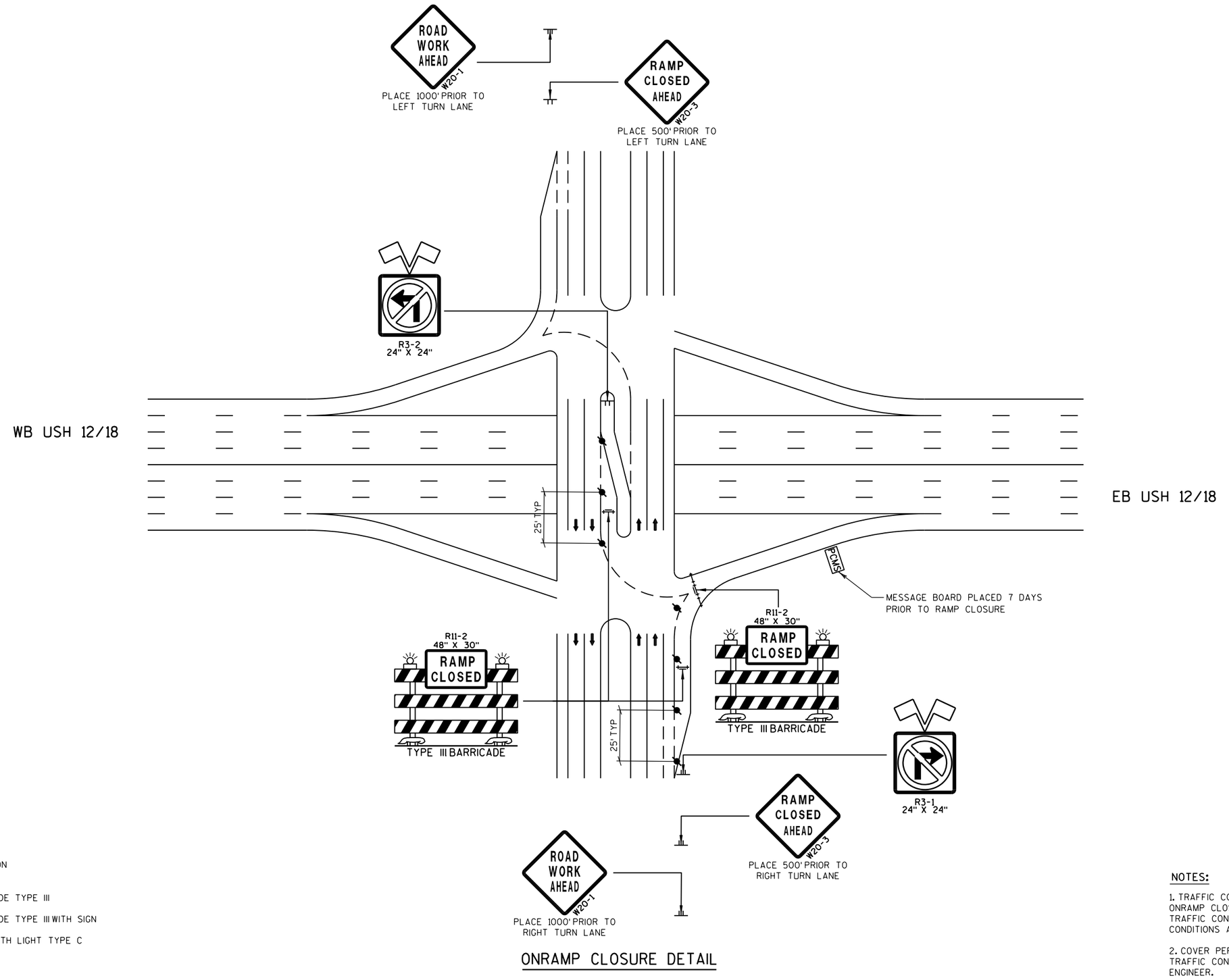
Ⓐ CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN

Ⓑ MOVABLE CONCRETE BARRIER TEMPORARY

TRAFFIC FLOW

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TYPICAL SECTIONS: TRAFFIC CONTROL FOR MEDIAN CONSTRUCTION	SHEET	E

2



ONRAMP CLOSURE DETAIL

TRAFFIC CONTROL LEGEND

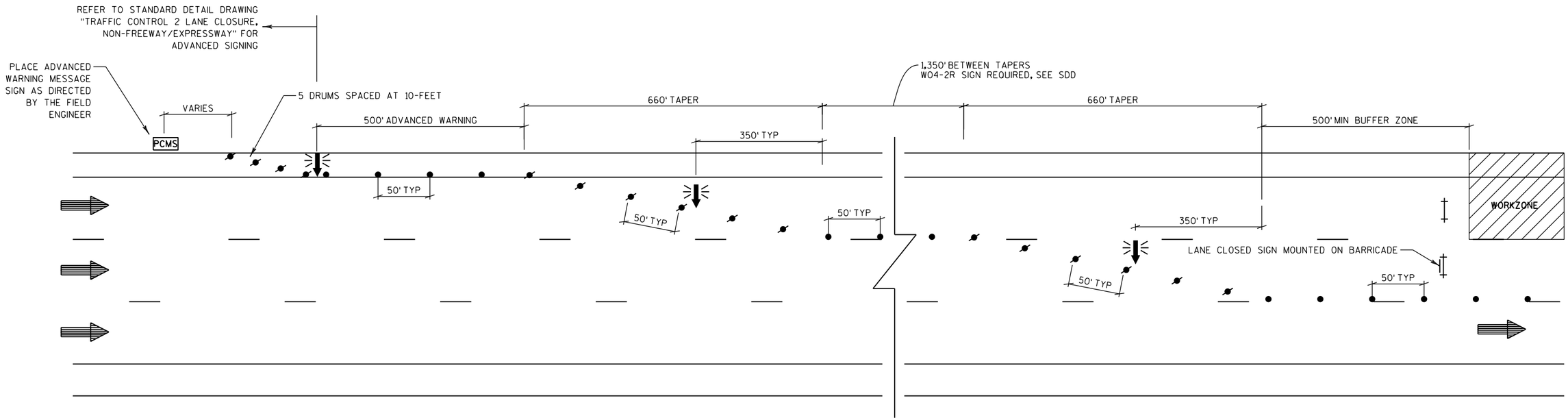
- TRAFFIC CONTROL SIGN(S) ON TEMPORARY SUPPORT
- TRAFFIC CONTROL BARRICADE TYPE III
- TRAFFIC CONTROL BARRICADE TYPE III WITH SIGN
- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
- TRAFFIC FLOW ARROW

NOTES:

1. TRAFFIC CONTROL SHOWN IS FOR TYPICAL ONRAMP CLOSURE. ADJUST SIGN PLACEMENT AND TRAFFIC CONTROL DEVICES TO FIT THE SITE CONDITIONS AS DIRECTED BY THE ENGINEER.

2. COVER PERMANENT SIGNS IN CONFLICT WITH TRAFFIC CONTROL DEVICES, AS DIRECTED BY THE ENGINEER.

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL CONSTRUCTION DETAILS	SHEET	E



LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL ARROW BOARD
- DIRECTION OF TRAFFIC
- PCMS — TRAFFIC CONTROL SIGN PORTABLE CHANGEABLE MESSAGE
- BARRICADE TYPE III, WITH SIGN

DOUBLE LANE CLOSURE

TRAFFIC CONTROL NOTES

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

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

FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A WARNING LIGHT, TYPE C (STEADY BURN).

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 DIRECTED BY THE ENGINEER.

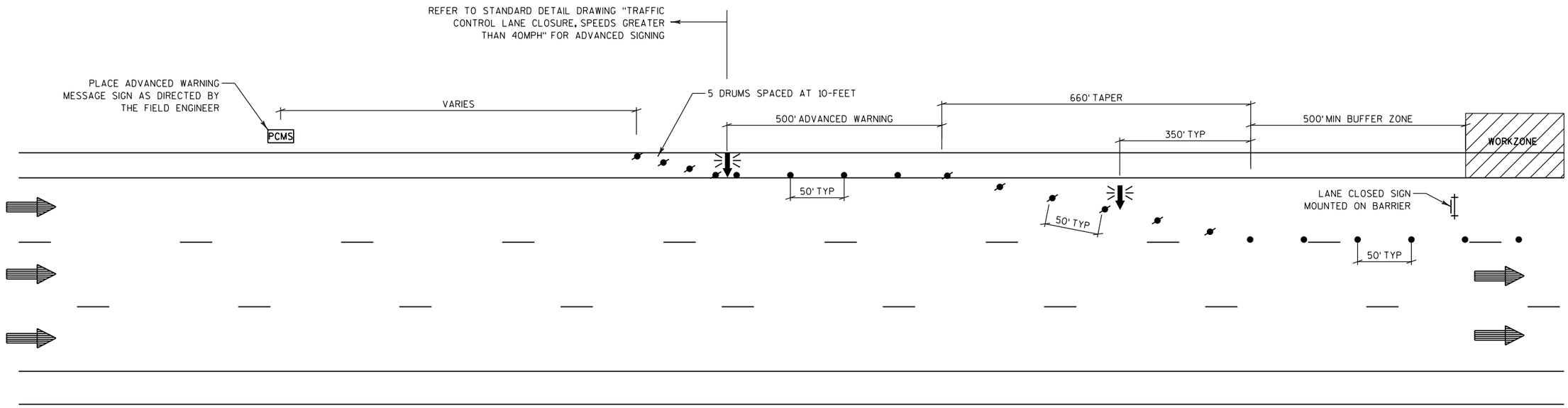
PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1000' ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROWBOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500' IN FRONT OF DRUMS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH PREVIOUSLY PLACED TRAFFIC CONTROL SIGNS AND SHOULD PROVIDE A MINIMUM OF 200-FT CLEARANCE TO EXISTING SIGNS.

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL CONSTRUCTION DETAILS	SHEET	E

2



LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL ARROW BOARD
- DIRECTION OF TRAFFIC
- PCMS — TRAFFIC CONTROL SIGN PORTABLE CHANGEABLE MESSAGE
- BARRICADE TYPE III, WITH SIGN

SINGLE LANE CLOSURE

TRAFFIC CONTROL NOTES

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

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

FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A WARNING LIGHT, TYPE C (STEADY BURN).

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 DIRECTED BY THE ENGINEER.

PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1000' ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

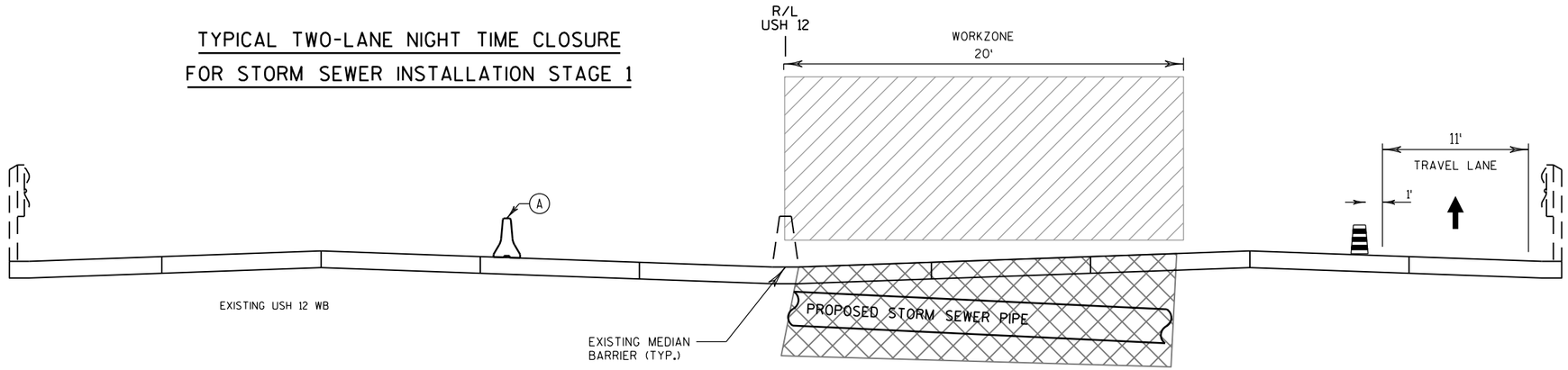
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROWBOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500' IN FRONT OF DRUMS.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH PREVIOUSLY PLACED TRAFFIC CONTROL SIGNS AND SHOULD PROVIDE A MINIMUM OF 200-FT CLEARANCE TO EXISTING SIGNS.

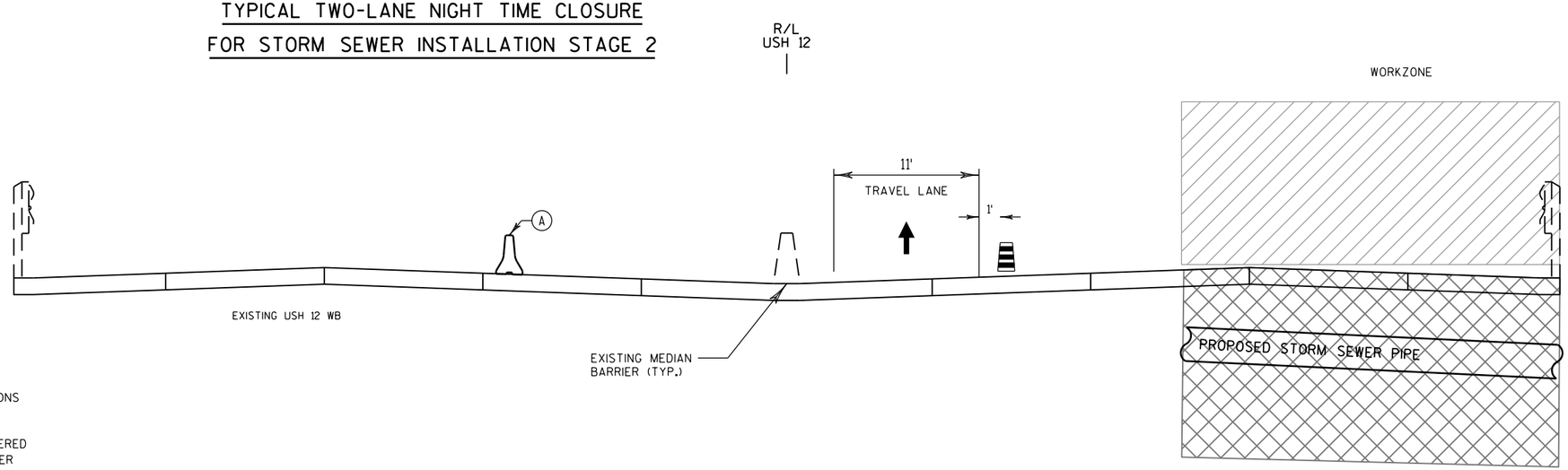
2

2

TYPICAL TWO-LANE NIGHT TIME CLOSURE FOR STORM SEWER INSTALLATION STAGE 1



TYPICAL TWO-LANE NIGHT TIME CLOSURE FOR STORM SEWER INSTALLATION STAGE 2



NOTES:

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

2) ALL DRUMS IN TAPERS SHALL HAVE A WARNING LIGHT, TYPE C (STEADY BURN)

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

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

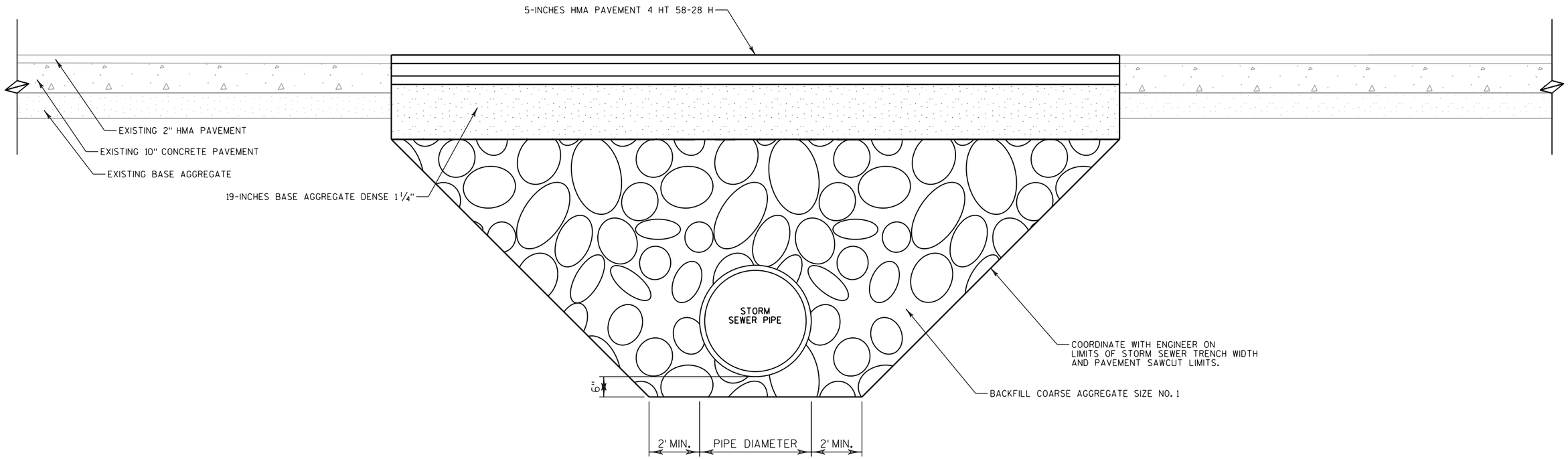
5) WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.

6) ALL SHORT TERM LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL ARROWBOARDS AND DEVICES REMOVED BEYOND THE SHOULDER WHEN THE WORK IS NOT IN PROGRESS AND THE LANE IS RESTORED TO A SAFE OPERATING CONDITION.

7) UTILIZE NIGHT TIME CLOSURE FOR INSTALLATION OF STORM SEWER UNDER EXISTING PAVEMENT. HOURS FOR NIGHT TIME CLOSURE SHALL ADHERE TO THE SPECIAL PROVISIONS OR AS DIRECTED BY THE ENGINEER.

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL CONSTRUCTION DETAILS	SHEET	E

2



TYPICAL TWO-LANE NIGHT TIME CLOSURE

FOR STORM SEWER INSTALLATION

NOTES:

1) HMA PAVEMENT,BASE AGGREGATE DENSE, AND BACKFILL COARSE AGGREGAT WILL BE PAID FOR UNDER THEIR APPROPRIATE BID ITEMS.

PROJECT NO: 1206-06-79	HWY: USH 10	COUNTY: DANE	TRAFFIC CONTROL CONSTRUCTION DETAILS	SHEET	E

2

N

SEMINOLE HIGHWAY NE RAMP

BELTLINE FRONTAGE ROAD

WB USH 12/18

EB USH 12/18

N 85°22'11" E

R/L USH 12/18

8:1 TAPER

MOVABLE BARRIER TRUCK STORAGE

16' FROM BACK OF TEMP MOVABLE BARRIER
TO TOE OF PROPOSED MEDIAN BARRIER

BEGIN SEGMENT WORK

165' TAPER
(6' MAX SHIFT)

250' TAPER
(6' MAX SHIFT)

SHIFT MOVABLE BARRIER 11' DURING NIGHTTIME CONSTRUCTION

508CL

510CL

512CL

513CL+55

514CL

515CL+60

516CL

517CL+25

518CL

520CL

522CL

510CL+05

120'

75'

MH

INL

SIGN

W

153

PROJECT NO: 1206-06-79	HWY: US 12	COUNTY: DANE	TRAFFIC CONTROL CONSTRUCTION DETAILS: STAGE 2, SEGMENT 1	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\025301_tc.dgn PLOT DATE : 1/31/2020 2:30:13 PM PLOT BY : cjustman PLOT NAME : PLOT SCALE : 100:1

2

2

N

FISH HATCHERY ROAD NE RAMP

ANN STREET

WB USH 12/18

MOVABLE BARRIER TRUCK STORAGE
8:1 TAPER

16' FROM BACK OF TEMP MOVABLE BARRIER
TO TOE OF PROPOSED MEDIAN BARRIER

604CL
606CL
608CL
610CL
612CL
614CL
616CL
618CL

S 86°46'40" E

R/L USH 12/18

606CL+00

140' TAPER
(5' MAX SHIFT)

607CL+40

70'
75'

SHIFT MOVABLE BARRIER 11' DURING NIGHTTIME CONSTRUCTION

611CL+90

140' TAPER
(5' MAX SHIFT)

613CL+30

FISH HATCHERY ROAD
SE LOOP RAMP

FISH HATCHERY ROAD SE RAMP

APPLEGATE ROAD

PROJECT NO: 1206-06-79	HWY: US 12	COUNTY: DANE	TRAFFIC CONTROL CONSTRUCTION DETAILS: STAGE 2, SEGMENT 2	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\025301_tc.dgn PLOT DATE : 1/31/2020 2:30:14 PM PLOT BY : cjustman PLOT NAME : PLOT SCALE : 100:1

2

2

BADGER ROAD

RUSK AVENUE

RIMROCK ROAD NW RAMP

RIMROCK ROAD NW RAMP

RIMROCK ROAD

RIMROCK ROAD NE RAMP

16' FROM BACK OF TEMP MOVABLE BARRIER
TO TOE OF PROPOSED MEDIAN BARRIER

SHIFT MOVABLE BARRIER 11' DURING NIGHTTIME CONSTRUCTION

R/L USH 12/18

MOVABLE BARRIER TRUCK STORAGE
8:1 TAPER

WB USH 12/18

676CL

678CL

680CL

682CL

684CL

686CL

688CL

N 66°23'58" E

120'

75'

677CL+15

140' TAPER
(5' MAX SHIFT)

678CL+55

682CL+05

683CL+45

140' TAPER
(5' MAX SHIFT)

RIMROCK ROAD SW RAMP

RIMROCK ROAD SE RAMP

RIPRAP

RIPRAP

PROJECT NO: 1206-06-79	HWY: US 12	COUNTY: DANE	TRAFFIC CONTROL CONSTRUCTION DETAILS: STAGE 2, SEGMENT 3	SHEET	E

2

2

WHITNEY WAY

SCHROEDER ROAD

SCHROEDER RD

S WHITNEY WAY

WB USH 12/18

EB USH 12/18

USH 12/14

USH 12/14

406CL

408CL

410CL

412CL

414CL

416CL

418CL

420CL

MATCHLINE 421+00

410CL+63
10.2' LT

415CL+20
10.2' LT

415CL+69
4' LT

416CL+19
4' LT

8:1 TAPER

409CL+59
4' RT

410CL+09
4' RT

410CL+63
10.8' RT

413CL+67
10.8' RT

8:1 TAPER

R/L USH 12/18

12'
12'
12'

CC

NOTES:

1. CONTRACTOR IS TO REMOVE ALL CONFLICTING PAVEMENT MARKINGS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE FIELD ENGINEER PRIOR TO OPENING TRAFFIC LANES

2. SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER" AND S.D.D "TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT TERM" FOR APPLICABLE DETAILS AND NOTES NOT SHOWN.

3. EXISTING LANE WIDTHS ARE BASED ON AS-BUILT DATA AND MAY VARY IN THE FIELD. VERIFY WIDTHS PRIOR TO SETTING TRAFFIC CONTROL TO ENSURE PROPER LANE WIDTHS ARE ACHIEVED.

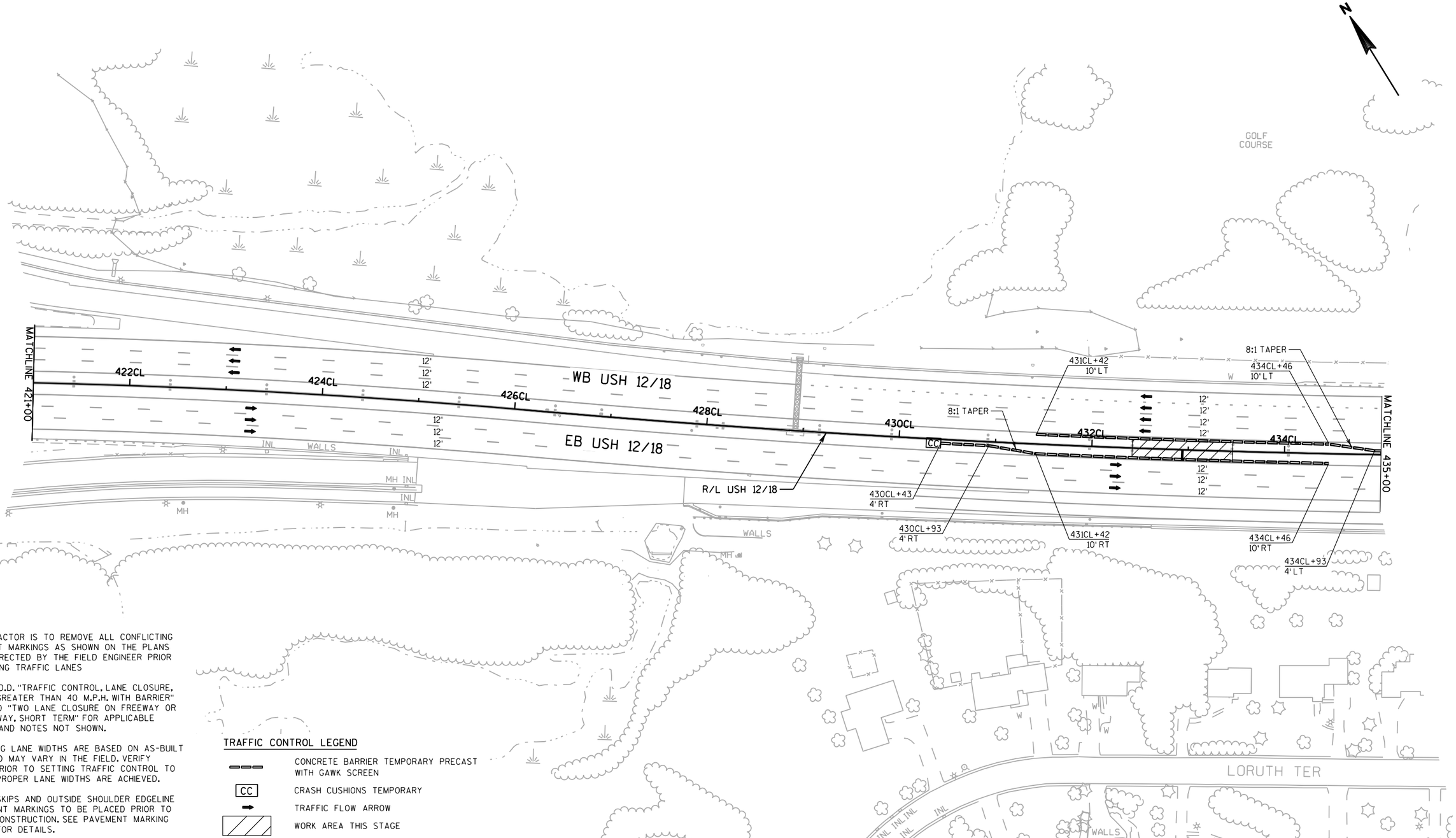
4. LANE SKIPS AND OUTSIDE SHOULDER EDGELINE PERMANENT MARKINGS TO BE PLACED PRIOR TO MEDIAN CONSTRUCTION. SEE PAVEMENT MARKING SHEETS FOR DETAILS.

TRAFFIC CONTROL LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 1	SHEET	E

2



NOTES:

1. CONTRACTOR IS TO REMOVE ALL CONFLICTING PAVEMENT MARKINGS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE FIELD ENGINEER PRIOR TO OPENING TRAFFIC LANES

2. SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER" AND S.D.D "TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT TERM" FOR APPLICABLE DETAILS AND NOTES NOT SHOWN.

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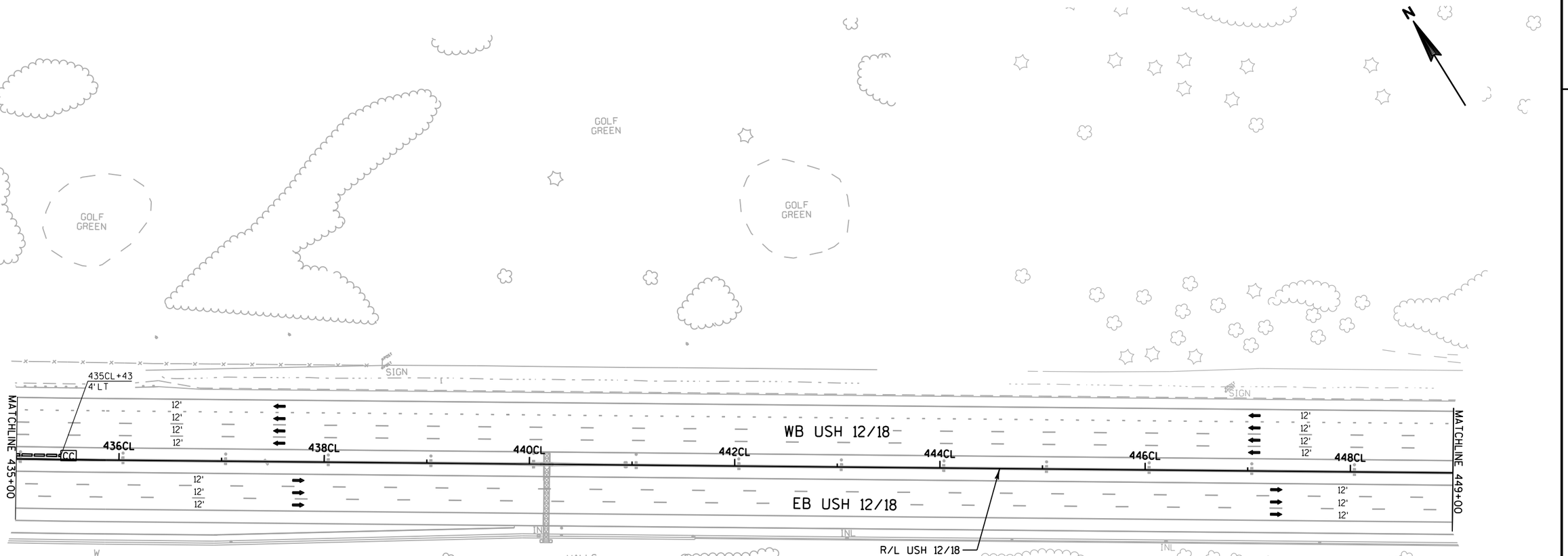
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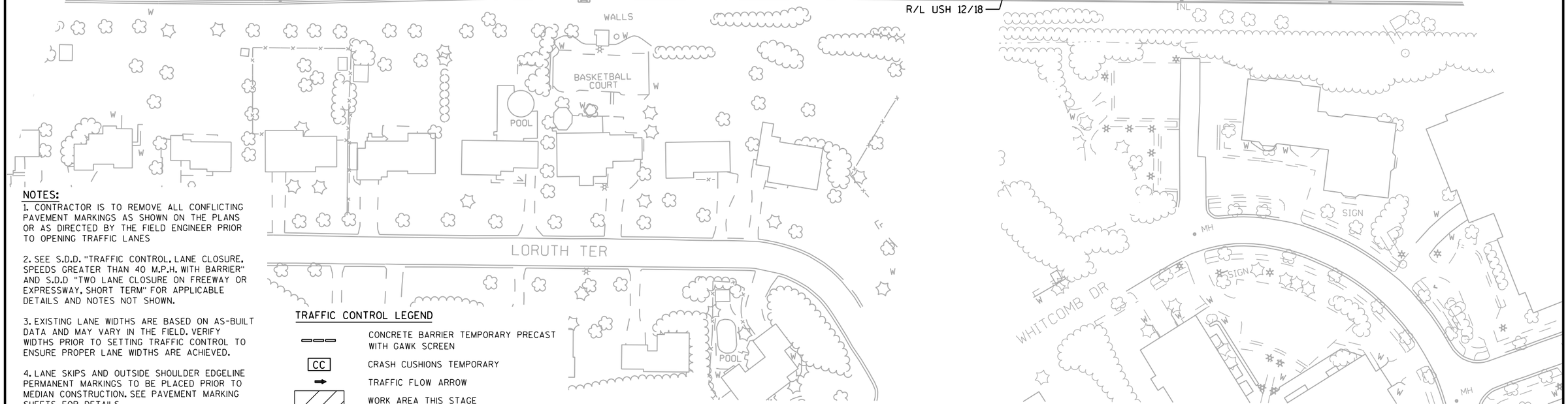
TRAFFIC CONTROL LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 1	SHEET	E

2





NOTES:

1. CONTRACTOR IS TO REMOVE ALL CONFLICTING PAVEMENT MARKINGS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE FIELD ENGINEER PRIOR TO OPENING TRAFFIC LANES

2. SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER" AND S.D.D "TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT TERM" FOR APPLICABLE DETAILS AND NOTES NOT SHOWN.

3. EXISTING LANE WIDTHS ARE BASED ON AS-BUILT DATA AND MAY VARY IN THE FIELD. VERIFY WIDTHS PRIOR TO SETTING TRAFFIC CONTROL TO ENSURE PROPER LANE WIDTHS ARE ACHIEVED.

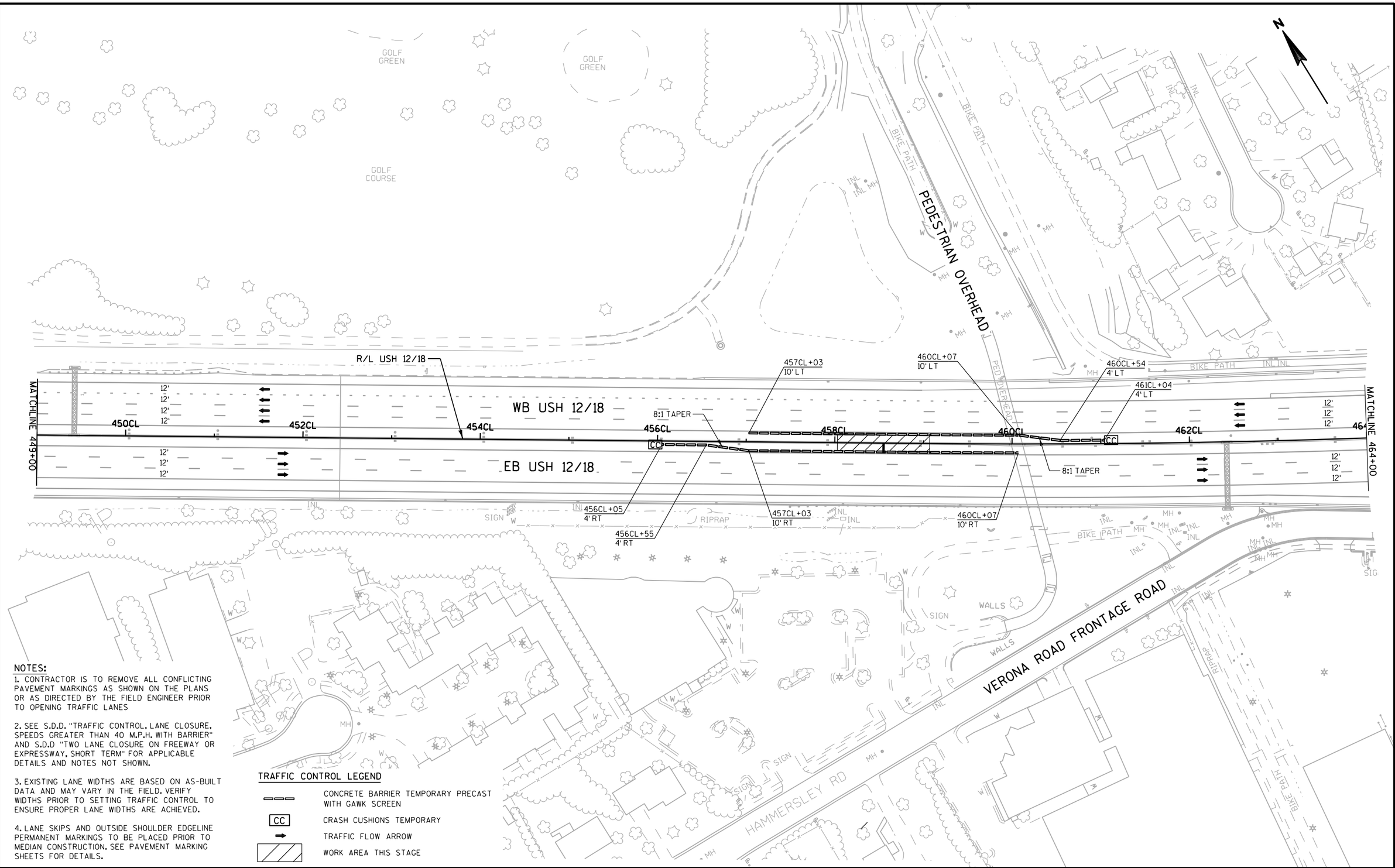
4. LANE SKIPS AND OUTSIDE SHOULDER EDGELINE PERMANENT MARKINGS TO BE PLACED PRIOR TO MEDIAN CONSTRUCTION. SEE PAVEMENT MARKING SHEETS FOR DETAILS.

TRAFFIC CONTROL LEGEND

▬▬▬	CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
CC	CRASH CUSHIONS TEMPORARY
➡	TRAFFIC FLOW ARROW
▨	WORK AREA THIS STAGE

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 1	SHEET	E

2



NOTES:

1. CONTRACTOR IS TO REMOVE ALL CONFLICTING PAVEMENT MARKINGS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE FIELD ENGINEER PRIOR TO OPENING TRAFFIC LANES

2. SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER" AND S.D.D "TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT TERM" FOR APPLICABLE DETAILS AND NOTES NOT SHOWN.

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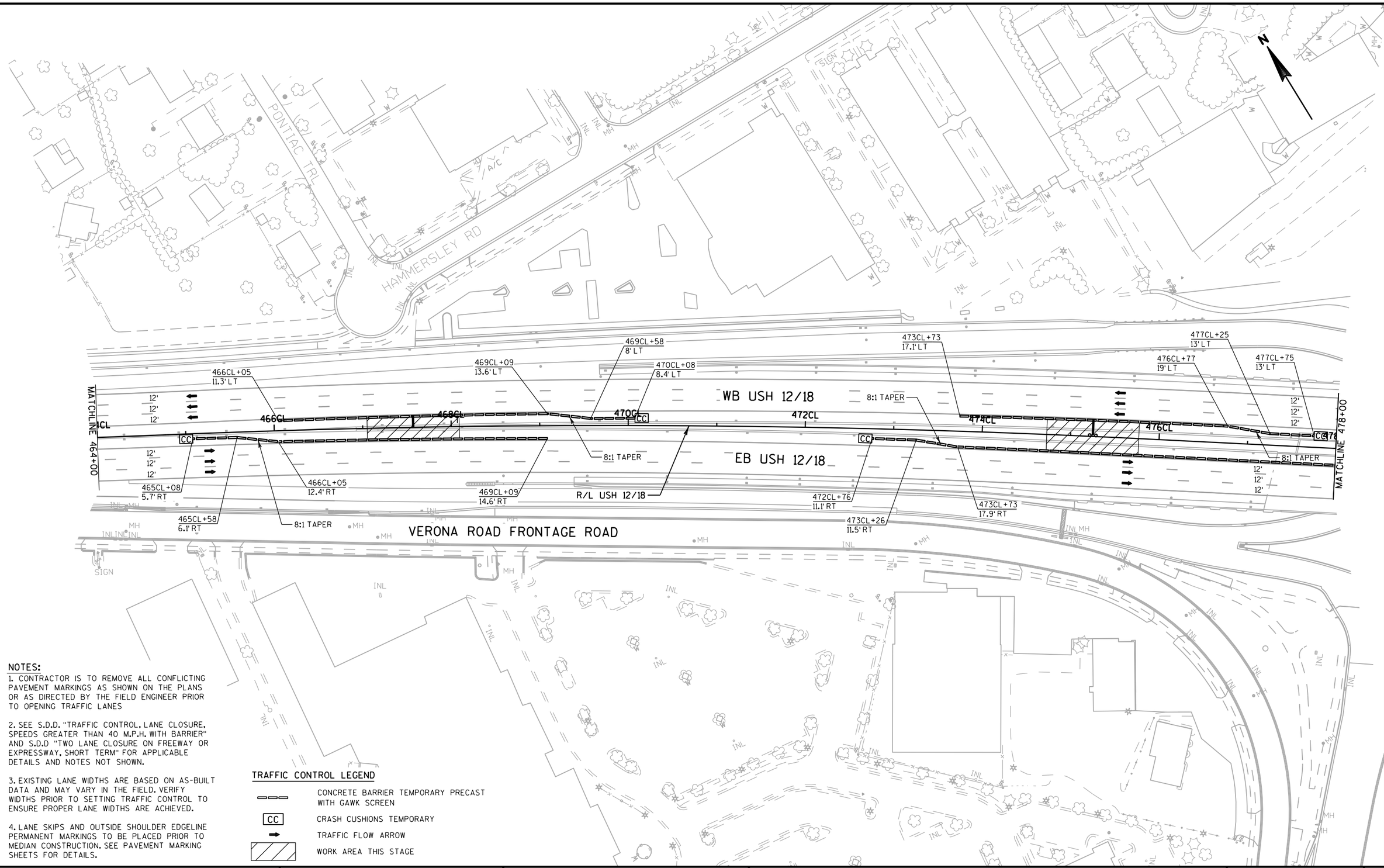
4. LANE SKIPS AND OUTSIDE SHOULDER EDGELINE PERMANENT MARKINGS TO BE PLACED PRIOR TO MEDIAN CONSTRUCTION. SEE PAVEMENT MARKING SHEETS FOR DETAILS.

TRAFFIC CONTROL LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 1	SHEET	E

2



NOTES:

1. CONTRACTOR IS TO REMOVE ALL CONFLICTING PAVEMENT MARKINGS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE FIELD ENGINEER PRIOR TO OPENING TRAFFIC LANES

2. SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER" AND S.D.D "TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT TERM" FOR APPLICABLE DETAILS AND NOTES NOT SHOWN.

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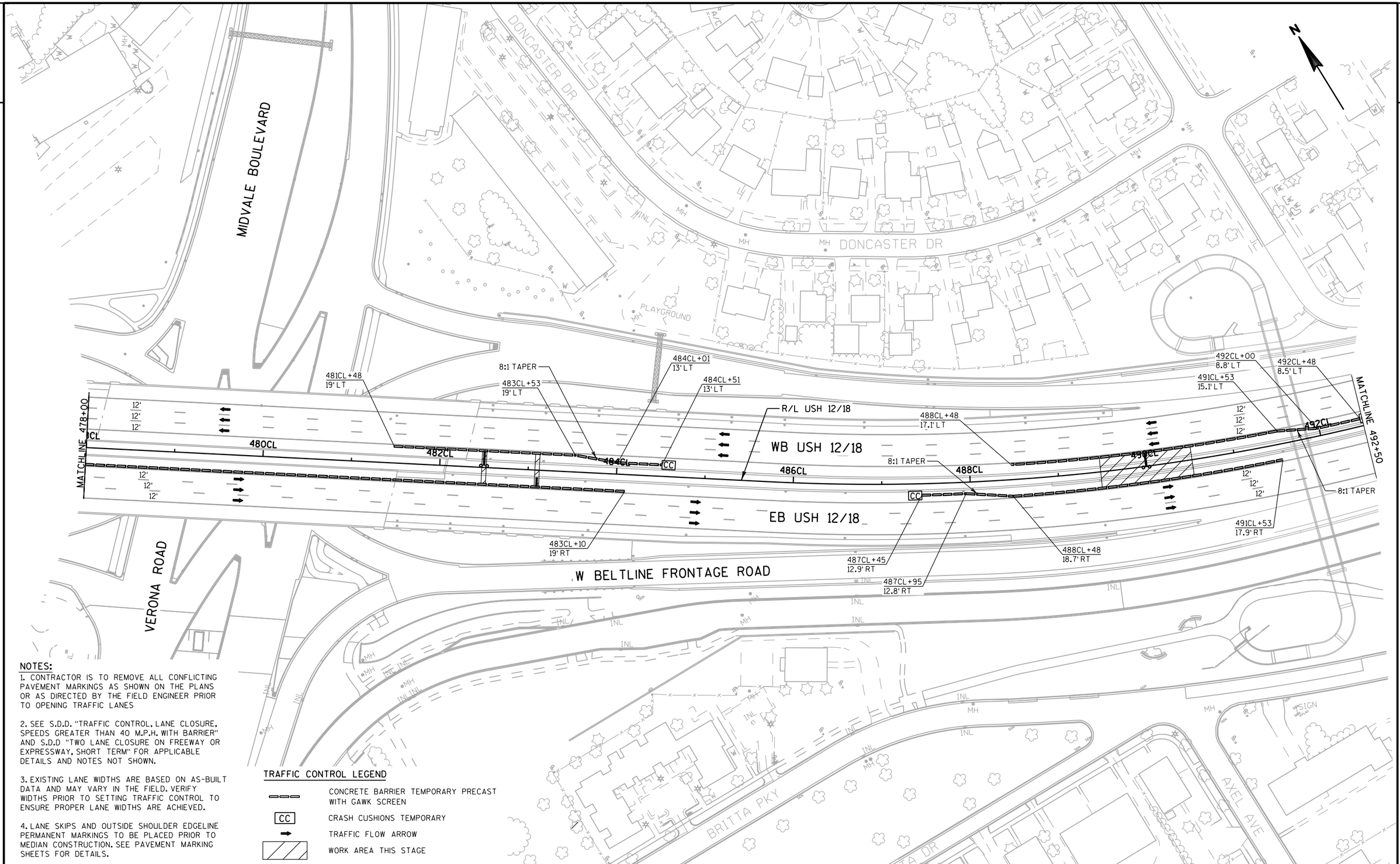
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TRAFFIC CONTROL LEGEND

▬▬▬	CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
CC	CRASH CUSHIONS TEMPORARY
➡	TRAFFIC FLOW ARROW
▨	WORK AREA THIS STAGE

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 1	SHEET	E

2



NOTES:

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TRAFFIC CONTROL LEGEND

▬▬▬	CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
CC	CRASH CUSHIONS TEMPORARY
➡	TRAFFIC FLOW ARROW
▨	WORK AREA THIS STAGE

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 1	SHEET	E

2

N

WARWICK WAY

MATCHLINE 492+50

494CL

496CL

498CL

500CL

502CL

504CL

506CL

506CL+15
4' LT

505CL+65
4' LT

8:1 TAPER

505CL+95
11' LT

502CL+55
11' LT

505CL+95
11' RT

502CL+55
11' RT

502CL+00
4' RT

8:1 TAPER

501CL+50
4' RT

WB USH 12/18

EB USH 12/18

R/L USH 12/18

W BELTLINE FRONTAGE ROAD

NOTES:

1. CONTRACTOR IS TO REMOVE ALL CONFLICTING PAVEMENT MARKINGS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE FIELD ENGINEER PRIOR TO OPENING TRAFFIC LANES

2. SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER" AND S.D.D "TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT TERM" FOR APPLICABLE DETAILS AND NOTES NOT SHOWN.

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TRAFFIC CONTROL LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 1	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\026036_s1.dgn PLOT DATE : 1/31/2020 2:31:24 PM PLOT BY : cjustman PLOT NAME : PLOT SCALE : 100:1

2

N

BELTLINE FRONTAGE ROAD

TODD DRIVE

564CL

566CL

568CL

570CL

572CL

574CL

576CL

MATCHLINE 577+00

R/L USH 12/18

WB USH 12/18

EB USH 12/18

BELTLINE FRONTAGE ROAD

WORK TO BE COMPLETED UNDER FLAGGING

BARRICADE, TYPE 3

BARRICADE, TYPE 3

30:1 TAPER

30:1 TAPER

CC

576CL+55 48.2'LT

576CL+55 36.2'LT

576CL+55 24.2'LT

576CL+55 12.2'LT

570CL+66 12.7'RT

570CL+66 24.7'RT

570CL+66 36.7'RT

570CL+66 48.7'RT

571CL+61 9.2'RT

572CL+11 9.81'RT

572CL+92 1'RT

572CL+91 8.3'RT

572CL+91 19.3'RT

572CL+91 30.3'RT

573CL+91 19.3'RT

573CL+91 30.3'RT

12' 12' 12' 11' 11' 11'

63 51 65 51 63 50 52 51

INL MH SIGN

NOTES:

1. CONTRACTOR IS TO REMOVE ALL CONFLICTING PAVEMENT MARKINGS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE FIELD ENGINEER PRIOR TO OPENING TRAFFIC LANES

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TRAFFIC CONTROL LEGEND

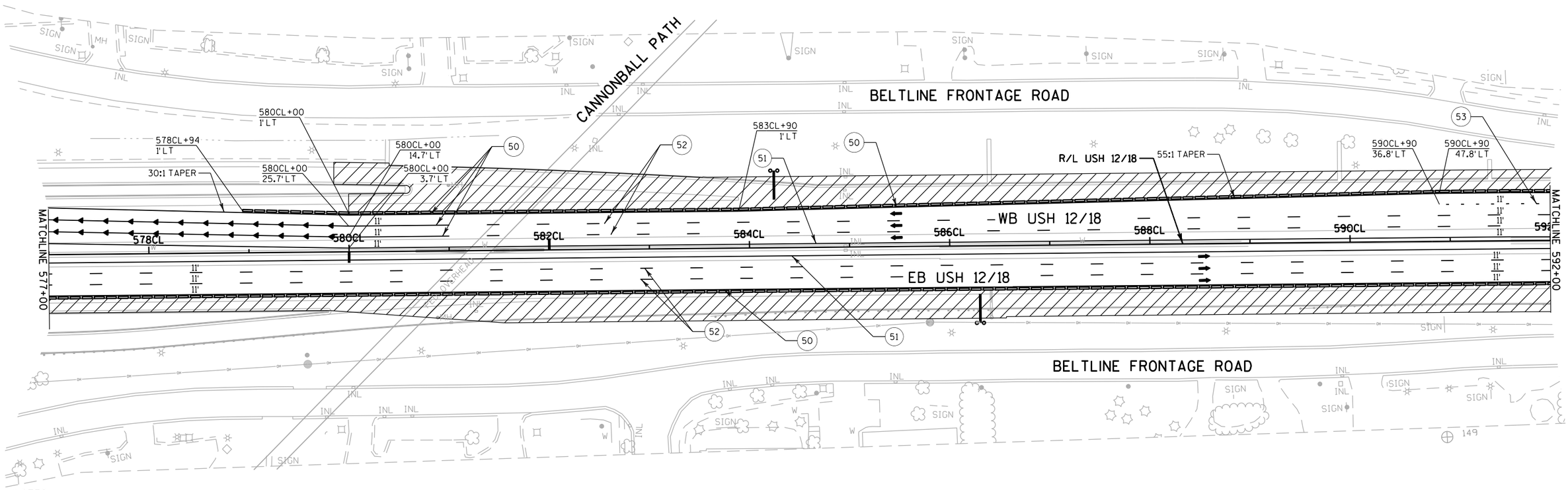
- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- TEMPORARY RAISED PAVEMENT MARKERS
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

TEMPORARY PAVEMENT MARKING LEGEND

- (50) TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
- (51) TEMPORARY MARKING LINE EPOXY 4-INCH (YELLOW)
- (52) TEMPORARY MARKING LINE EPOXY 4-INCH (DASHED-WHITE) (12.5 FT LINE 37.5 FT SKIP)
- (53) TEMPORARY MARKING LINE EPOXY 4-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
- (63) TEMPORARY MARKING LINE WET REFLECTIVE CONTRAST REMOVABLE TAPE 4-INCH (WHITE)
- (65) TEMPORARY MARKING LINE WET REFLECTIVE CONTRAST REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 1	SHEET	E

2



NOTES:

1. CONTRACTOR IS TO REMOVE ALL CONFLICTING PAVEMENT MARKINGS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE FIELD ENGINEER PRIOR TO OPENING TRAFFIC LANES

2. SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER" AND S.D.D "TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT TERM" FOR APPLICABLE DETAILS AND NOTES NOT SHOWN.

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TRAFFIC CONTROL LEGEND

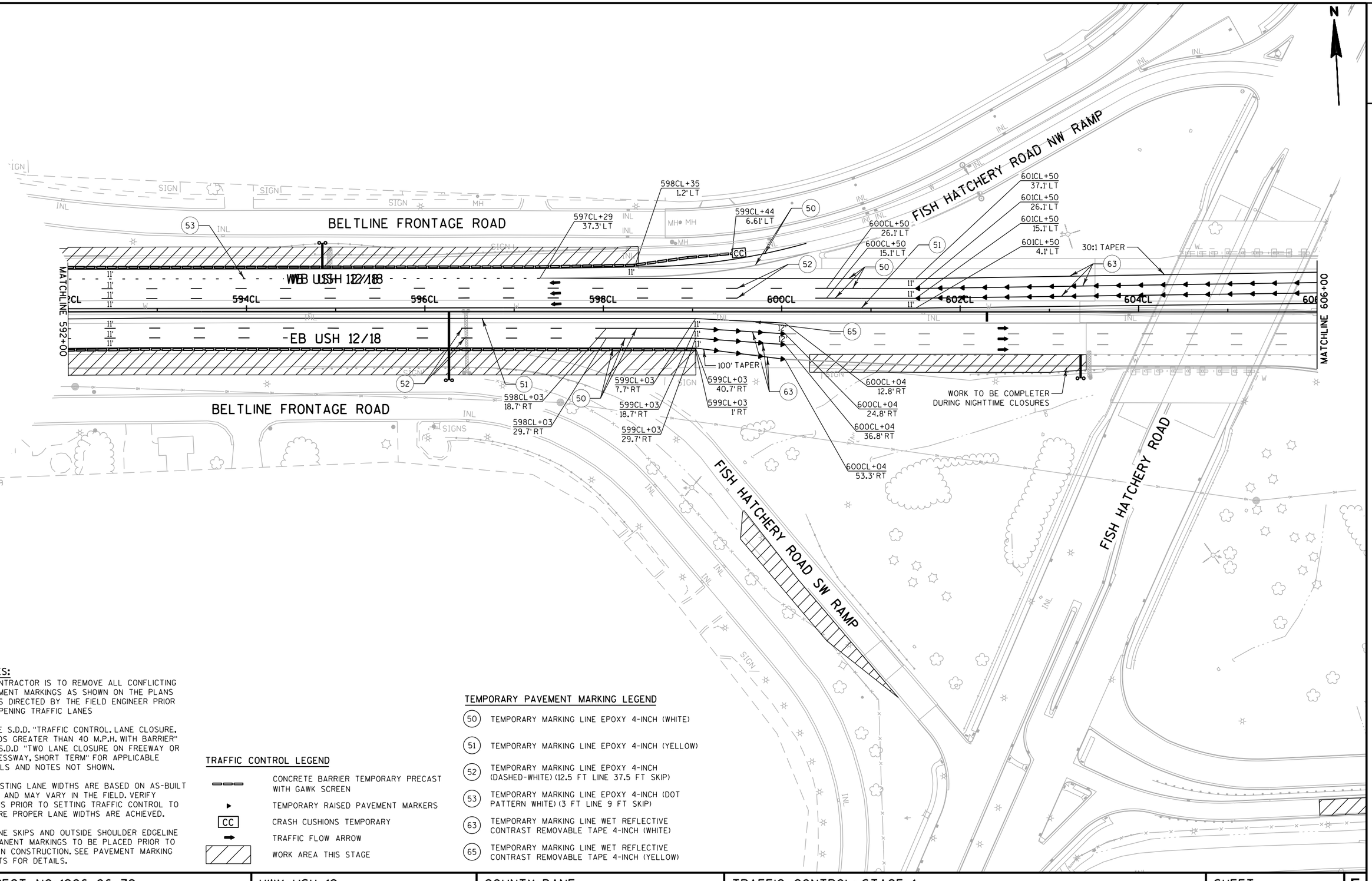
▬▬▬	CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
▸	TEMPORARY RAISED PAVEMENT MARKERS
CC	CRASH CUSHIONS TEMPORARY
➡	TRAFFIC FLOW ARROW
▨	WORK AREA THIS STAGE

TEMPORARY PAVEMENT MARKING LEGEND

50	TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
51	TEMPORARY MARKING LINE EPOXY 4-INCH (YELLOW)
52	TEMPORARY MARKING LINE EPOXY 4-INCH (DASHED-WHITE) (12.5 FT LINE 37.5 FT SKIP)
53	TEMPORARY MARKING LINE EPOXY 4-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
63	TEMPORARY MARKING LINE WET REFLECTIVE CONTRAST REMOVABLE TAPE 4-INCH (WHITE)
65	TEMPORARY MARKING LINE WET REFLECTIVE CONTRAST REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 1	SHEET	E

2



NOTES:

1. CONTRACTOR IS TO REMOVE ALL CONFLICTING PAVEMENT MARKINGS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE FIELD ENGINEER PRIOR TO OPENING TRAFFIC LANES

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TRAFFIC CONTROL LEGEND

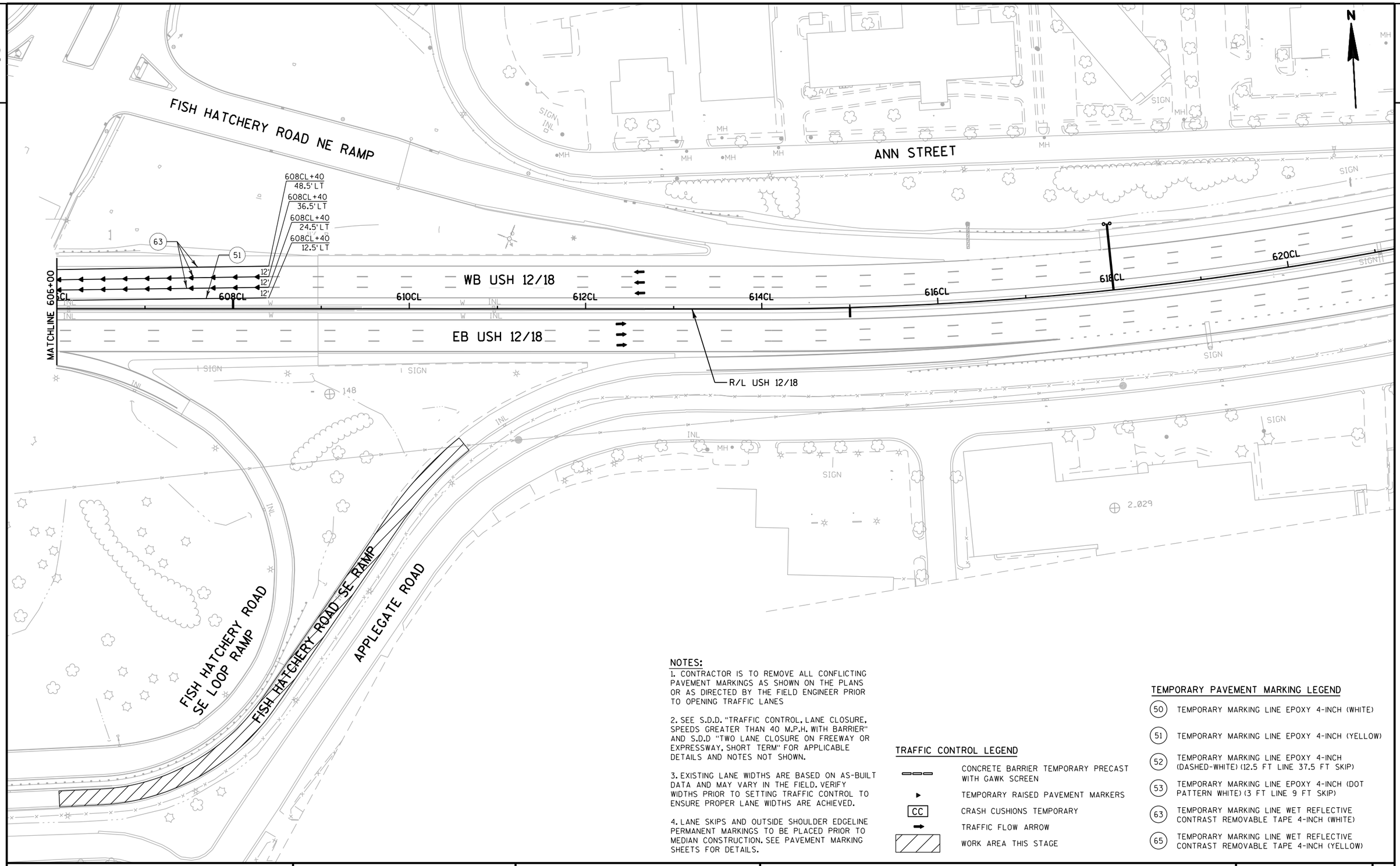
- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- TEMPORARY RAISED PAVEMENT MARKERS
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

TEMPORARY PAVEMENT MARKING LEGEND

- (50) TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
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- (52) TEMPORARY MARKING LINE EPOXY 4-INCH (DASHED-WHITE) (12.5 FT LINE 37.5 FT SKIP)
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 1	SHEET	E

2



NOTES:

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TRAFFIC CONTROL LEGEND

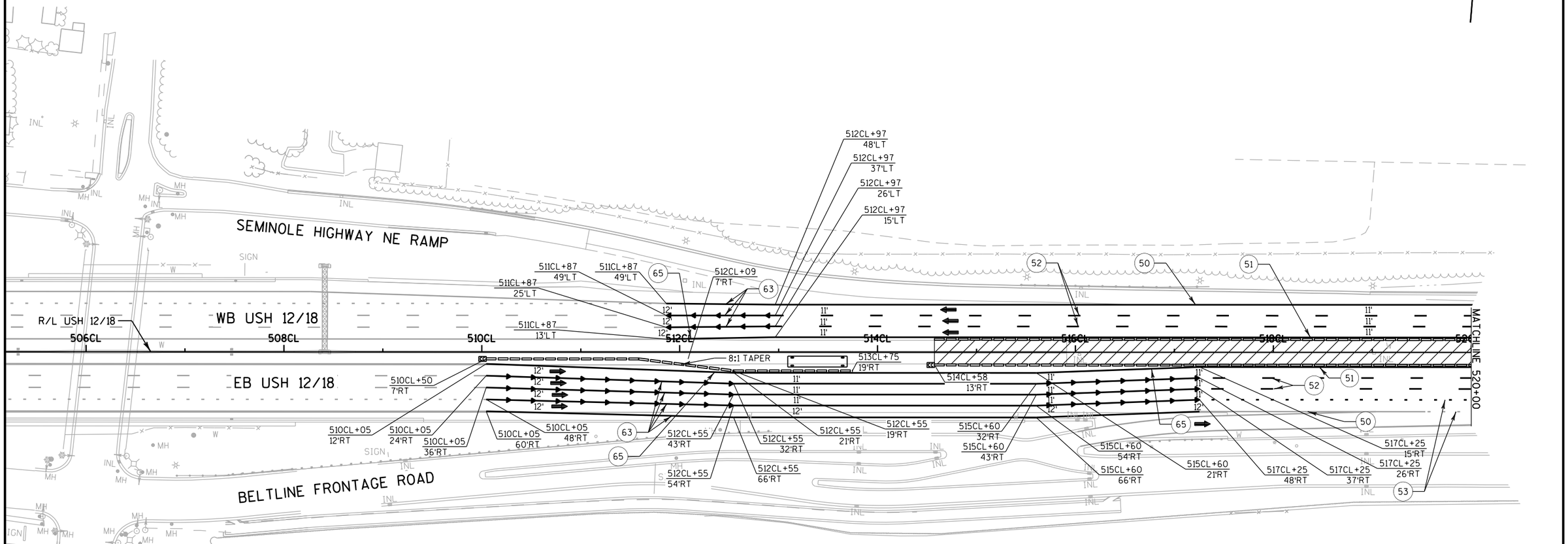
- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- TEMPORARY RAISED PAVEMENT MARKERS
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

TEMPORARY PAVEMENT MARKING LEGEND

- (50) TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
- (51) TEMPORARY MARKING LINE EPOXY 4-INCH (YELLOW)
- (52) TEMPORARY MARKING LINE EPOXY 4-INCH (DASHED-WHITE) (12.5 FT LINE 37.5 FT SKIP)
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- (65) TEMPORARY MARKING LINE WET REFLECTIVE CONTRAST REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 1	SHEET	E

2



153

NOTES:

1. CONTRACTOR IS TO REMOVE ALL CONFLICTING PAVEMENT MARKINGS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE FIELD ENGINEER PRIOR TO OPENING TRAFFIC LANES

2. SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER" AND S.D.D "TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT TERM" FOR APPLICABLE DETAILS AND NOTES NOT SHOWN.

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5. TEMPORARY EPOXY LINES TO BE PLACED IN PERMANENT PAVEMENT MARKING LOCATION.

TRAFFIC CONTROL LEGEND

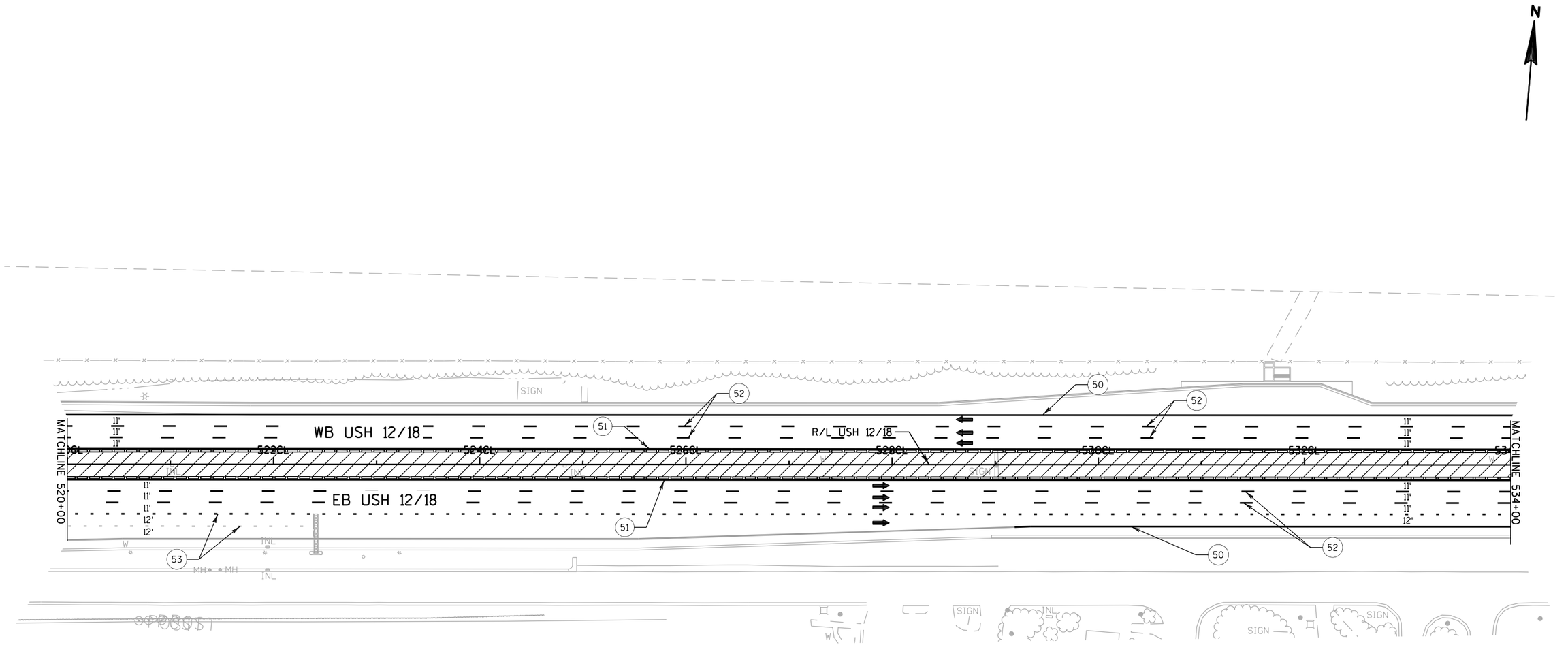
- TRAFFIC CONTROL SIGN(S) ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGN(S) ON PERMANENT SUPPORT
- TRAFFIC CONTROL BARRICADE TYPE III WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
- TEMPORARY RAISED PAVEMENT MARKERS
- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

TEMPORARY PAVEMENT MARKING LEGEND

- (50) TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 1	SHEET	E

2



NOTES:

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5. TEMPORARY EPOXY LINES TO BE PLACED IN PERMANENT PAVEMENT MARKING LOCATION.

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL SIGN(S) ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGN(S) ON PERMANENT SUPPORT
- TRAFFIC CONTROL BARRICADE TYPE III WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
- TEMPORARY RAISED PAVEMENT MARKERS
- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

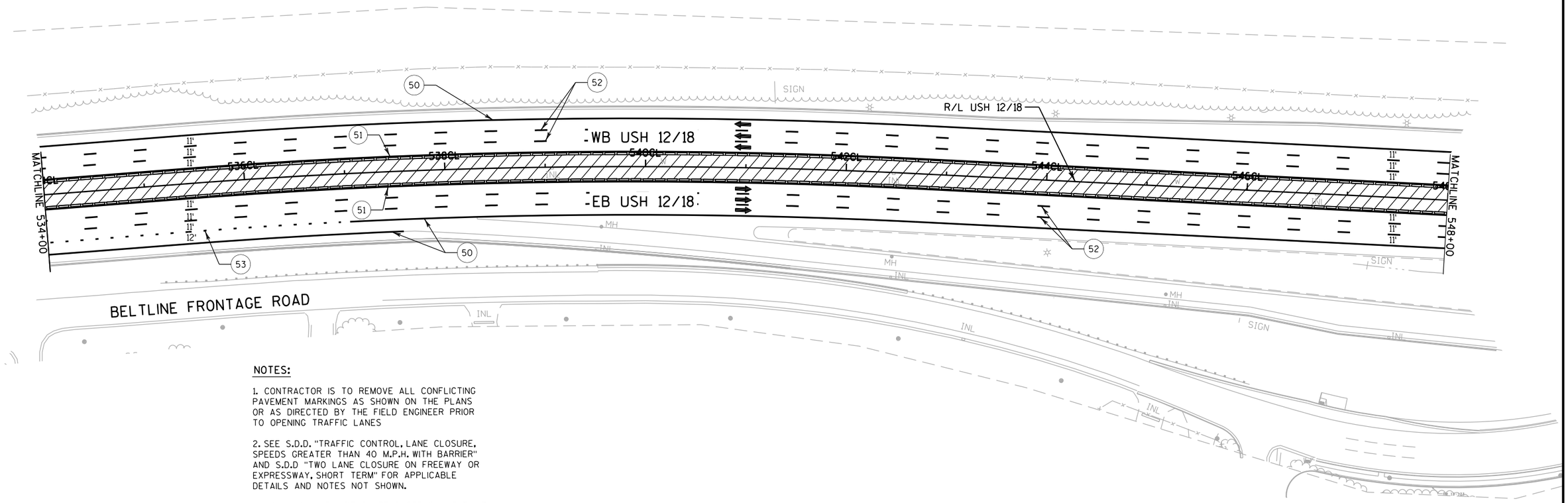
TEMPORARY PAVEMENT MARKING LEGEND

- (50) TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
- (51) TEMPORARY MARKING LINE EPOXY 4-INCH (YELLOW)
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 1	SHEET	E

2

N



NOTES:

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5. TEMPORARY EPOXY LINES TO BE PLACED IN PERMANENT PAVEMENT MARKING LOCATION.

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL SIGN(S) ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGN(S) ON PERMANENT SUPPORT
- TRAFFIC CONTROL BARRICADE TYPE III WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
- TEMPORARY RAISED PAVEMENT MARKERS
- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

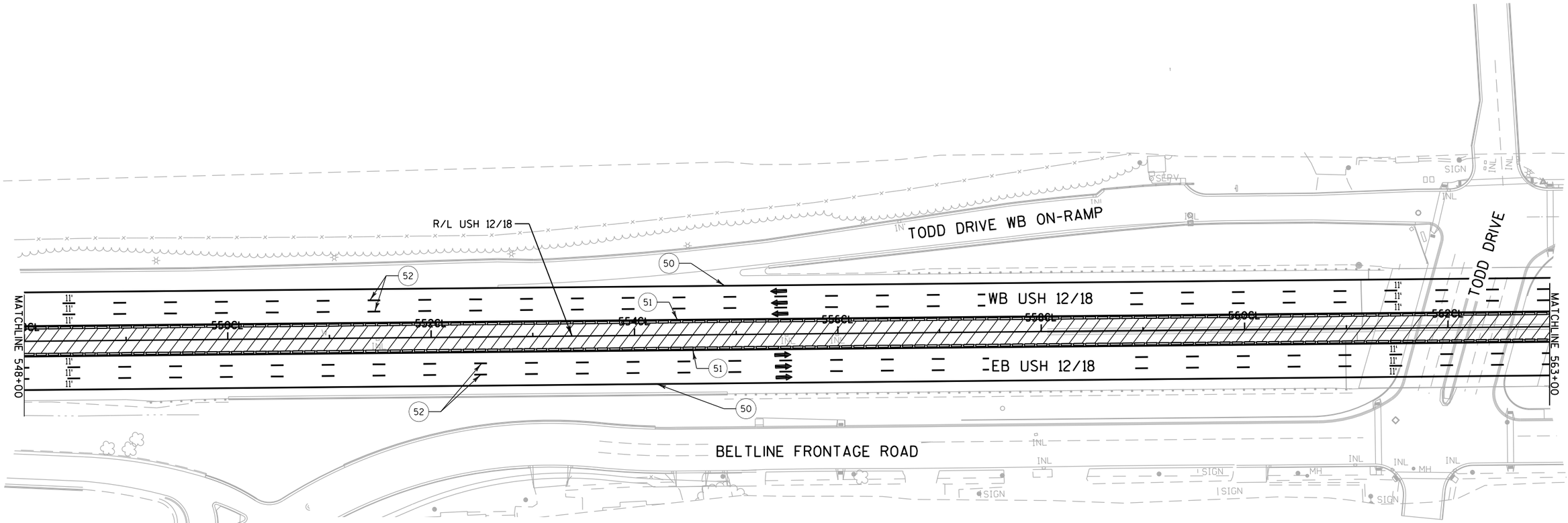
TEMPORARY PAVEMENT MARKING LEGEND

- (50) TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
- (51) TEMPORARY MARKING LINE EPOXY 4-INCH (YELLOW)
- (52) TEMPORARY MARKING LINE EPOXY 4-INCH (DASHED-WHITE) (12.5 FT LINE 37.5 FT SKIP)
- (53) TEMPORARY MARKING GROOVED CONTRAST PERMANENT TAPE 8-INCH (WHITE DOTTED)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 1	SHEET	E

2

N



NOTES:

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TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL SIGN(S) ON TEMPORARY SUPPORT
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- TRAFFIC CONTROL BARRICADE TYPE III WITH SIGN
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- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
- TEMPORARY RAISED PAVEMENT MARKERS
- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

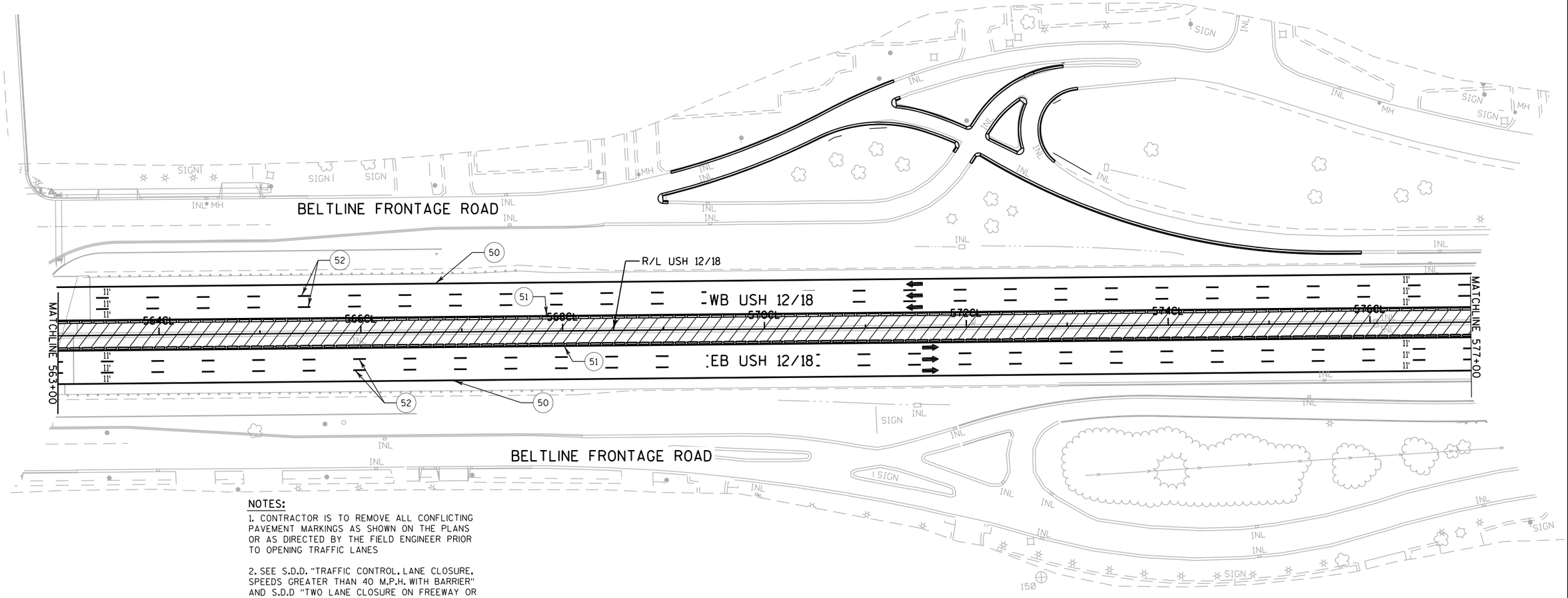
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- (50) TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
- (51) TEMPORARY MARKING LINE EPOXY 4-INCH (YELLOW)
- (52) TEMPORARY MARKING LINE EPOXY 4-INCH (DASHED-WHITE) (12.5 FT LINE 37.5 FT SKIP)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 1	SHEET	E

2

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NOTES:

1. CONTRACTOR IS TO REMOVE ALL CONFLICTING PAVEMENT MARKINGS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE FIELD ENGINEER PRIOR TO OPENING TRAFFIC LANES

2. SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER" AND S.D.D "TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT TERM" FOR APPLICABLE DETAILS AND NOTES NOT SHOWN.

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5. TEMPORARY EPOXY LINES TO BE PLACED IN PERMANENT PAVEMENT MARKING LOCATION.

TRAFFIC CONTROL LEGEND

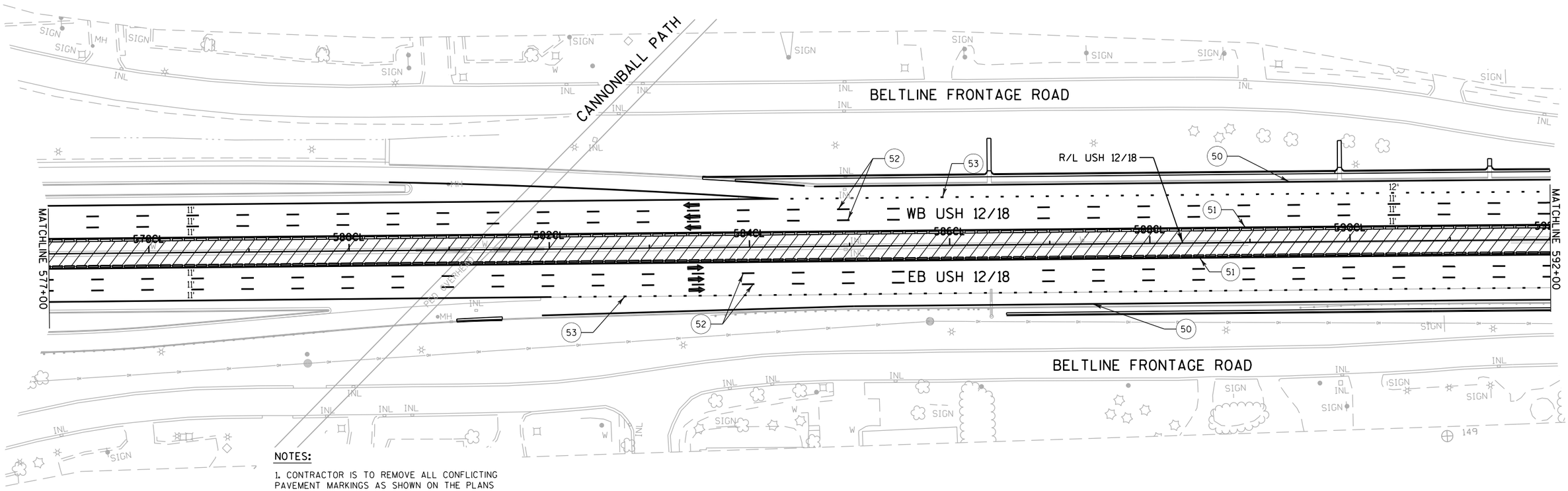
- TRAFFIC CONTROL SIGN(S) ON TEMPORARY SUPPORT
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- TRAFFIC CONTROL BARRICADE TYPE III WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
- TEMPORARY RAISED PAVEMENT MARKERS
- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

TEMPORARY PAVEMENT MARKING LEGEND

- (50) TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
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- (52) TEMPORARY MARKING LINE EPOXY 4-INCH (DASHED-WHITE) (12.5 FT LINE 37.5 FT SKIP)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 1	SHEET	E

2



NOTES:

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TRAFFIC CONTROL LEGEND

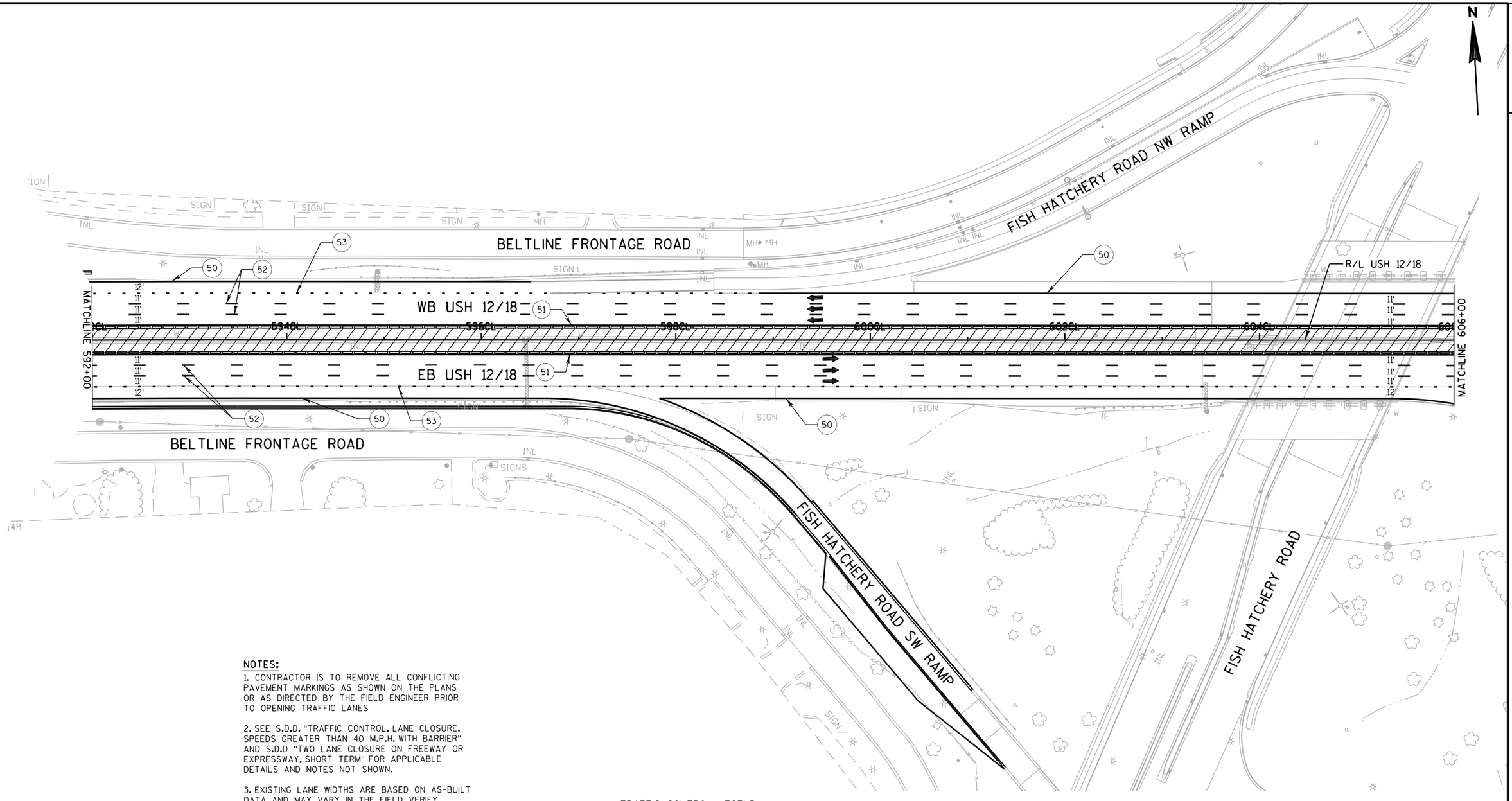
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- TRAFFIC CONTROL BARRICADE TYPE III WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
- TEMPORARY RAISED PAVEMENT MARKERS
- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

TEMPORARY PAVEMENT MARKING LEGEND

- (50) TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
- (51) TEMPORARY MARKING LINE EPOXY 4-INCH (YELLOW)
- (52) TEMPORARY MARKING LINE EPOXY 4-INCH (DASHED-WHITE) (12.5 FT LINE 37.5 FT SKIP)
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 1	SHEET	E

2



2

NOTES:

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TRAFFIC CONTROL LEGEND

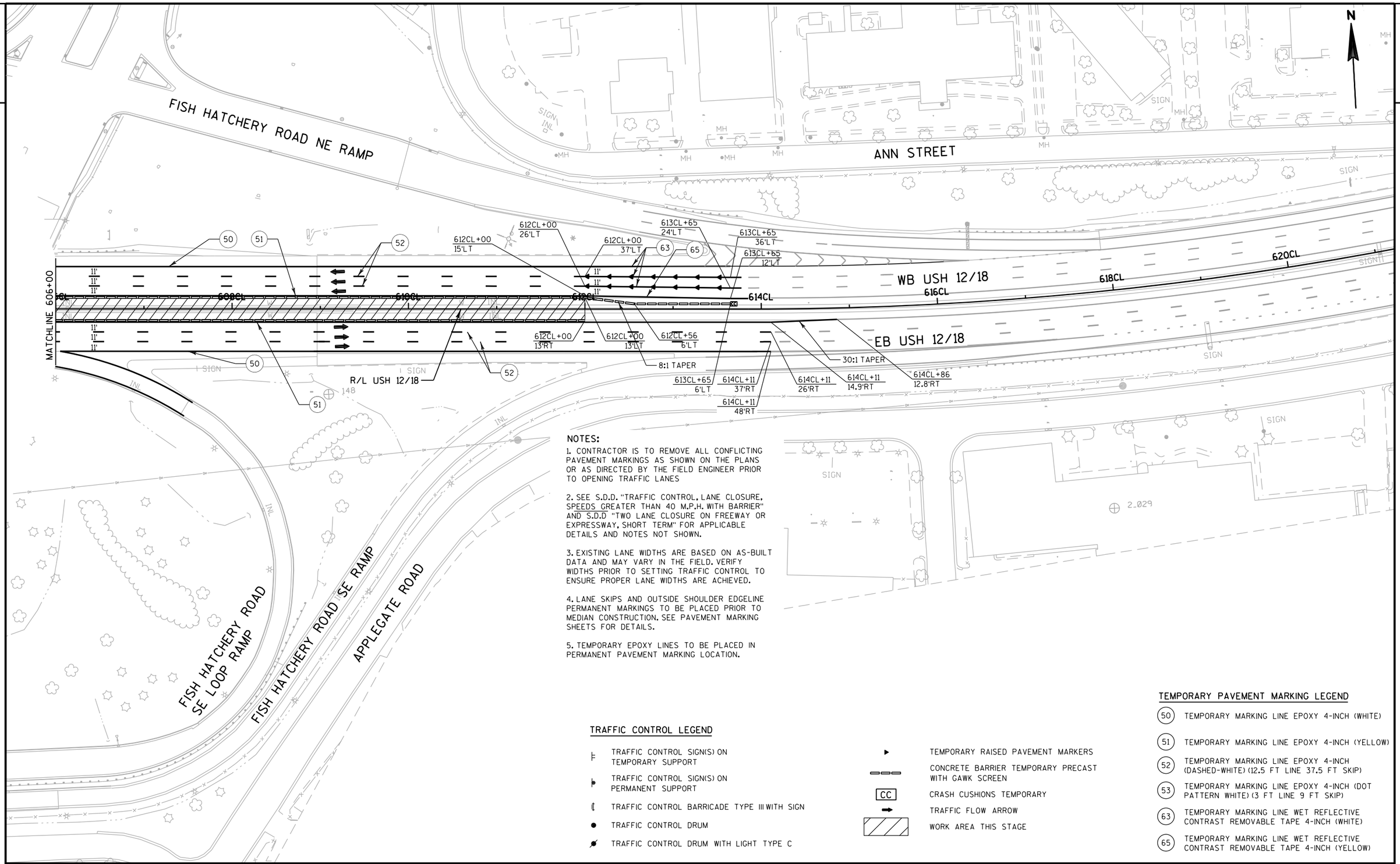
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- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

TEMPORARY PAVEMENT MARKING LEGEND

- (50) TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 1	SHEET	E

2



NOTES:

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TRAFFIC CONTROL LEGEND

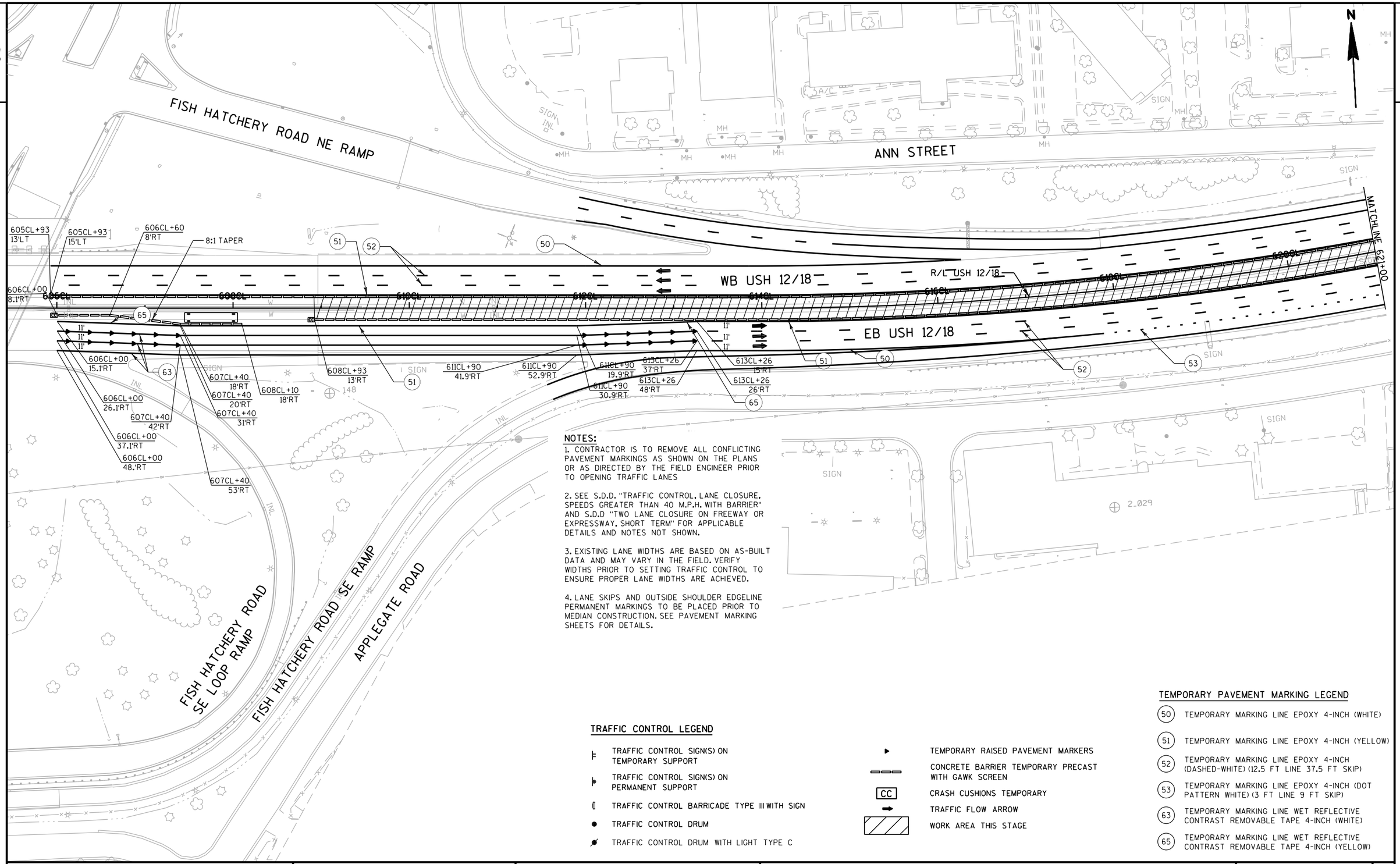
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- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

TEMPORARY PAVEMENT MARKING LEGEND

- (50) TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
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- (65) TEMPORARY MARKING LINE WET REFLECTIVE CONTRAST REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 1	SHEET	E

2



NOTES:

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- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

TEMPORARY PAVEMENT MARKING LEGEND

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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 2	SHEET	E

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N

TANKS

MH

SIGN

T205
887.050

R/L USH 12/18

ANN STREET

52

50

53

51

WB USH 12/18

EB USH 12/18

MATCHLINE 621+00

MATCHLINE 636+00

APPLEGATE ROAD

PARK STREET SW RAMP

INL

GVT

MH

SIGNS

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- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

TEMPORARY PAVEMENT MARKING LEGEND

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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 2	SHEET	E

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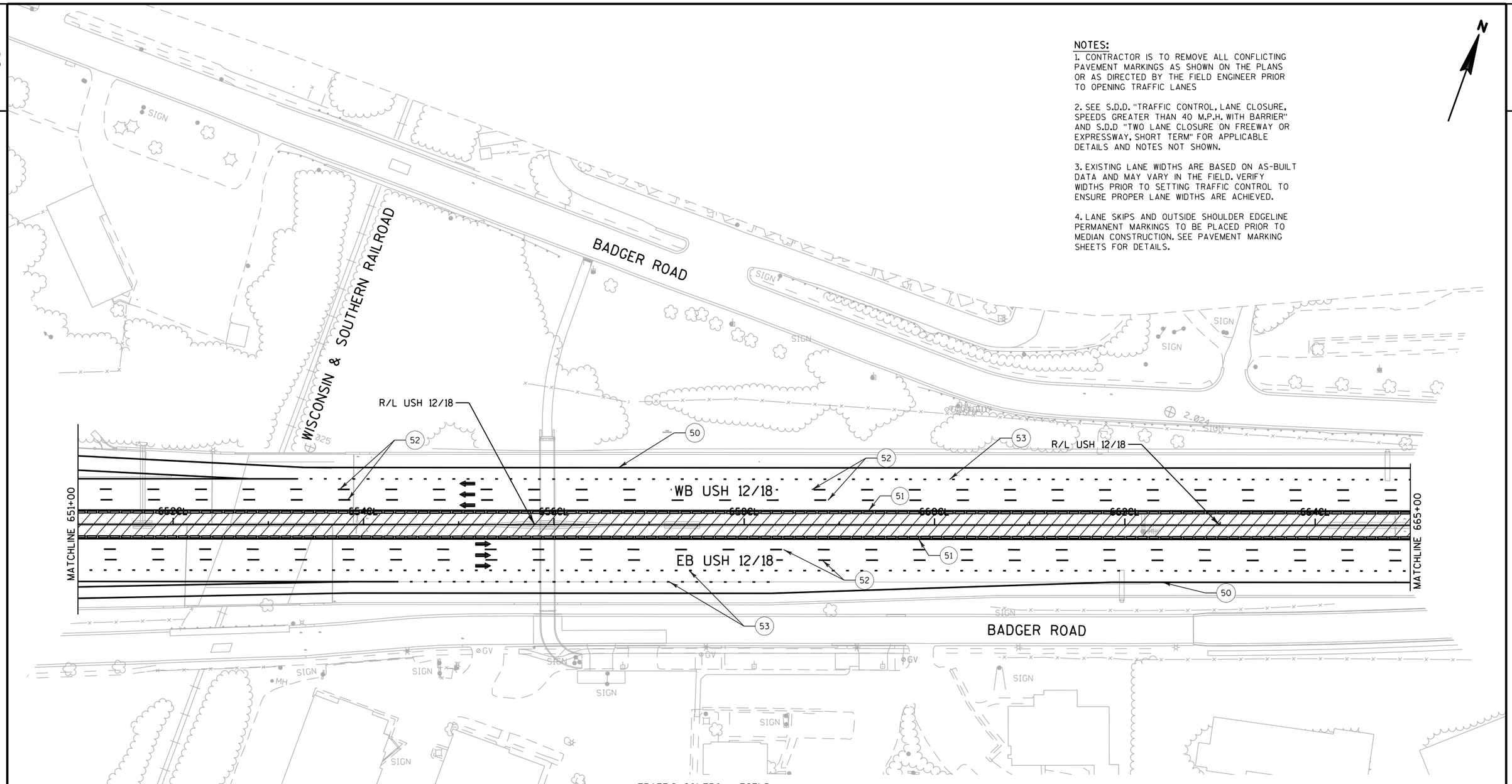
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TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL SIGN(S) ON TEMPORARY SUPPORT
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- TEMPORARY RAISED PAVEMENT MARKERS
- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

TEMPORARY PAVEMENT MARKING LEGEND

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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 2	SHEET	E

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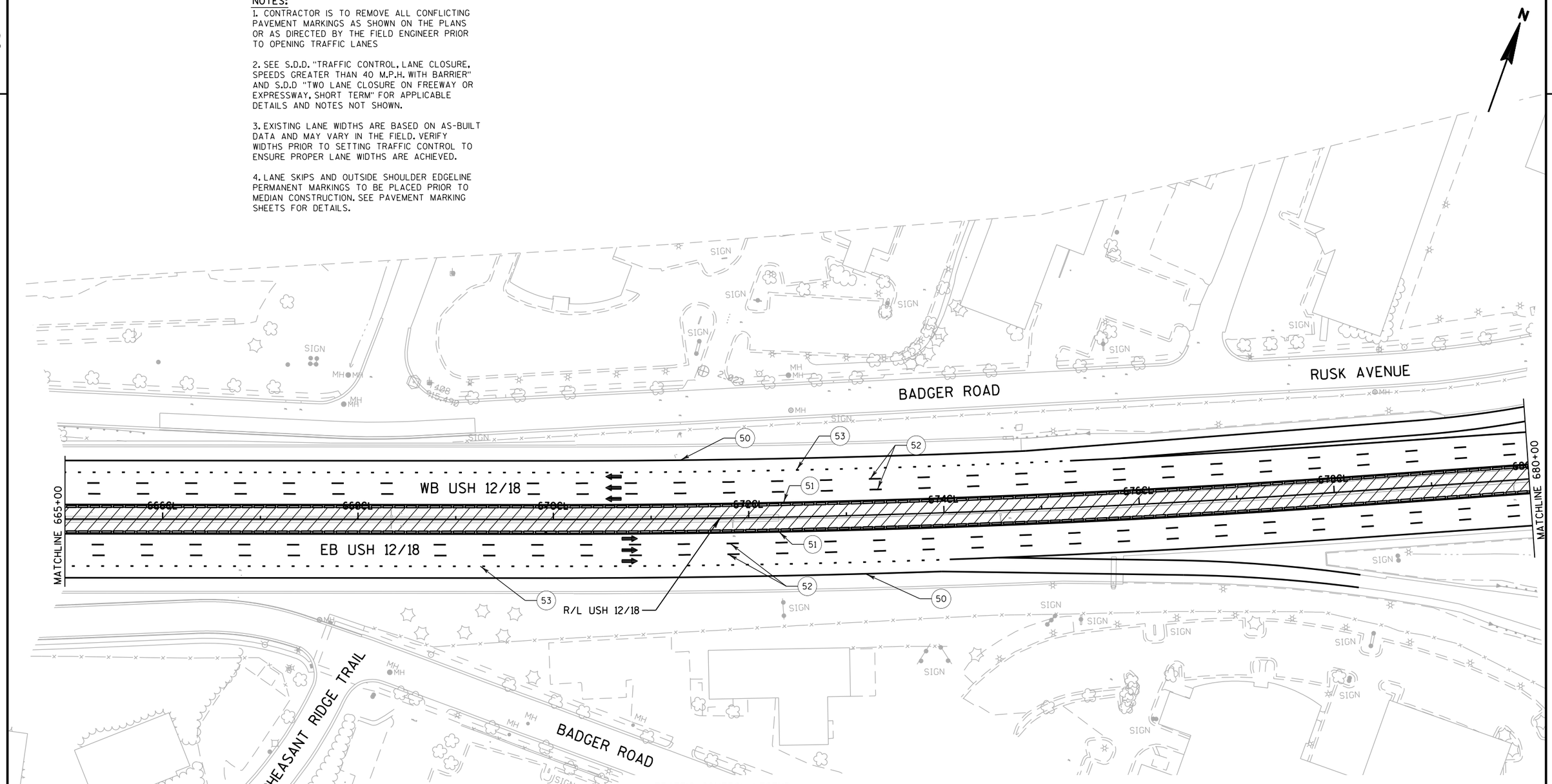
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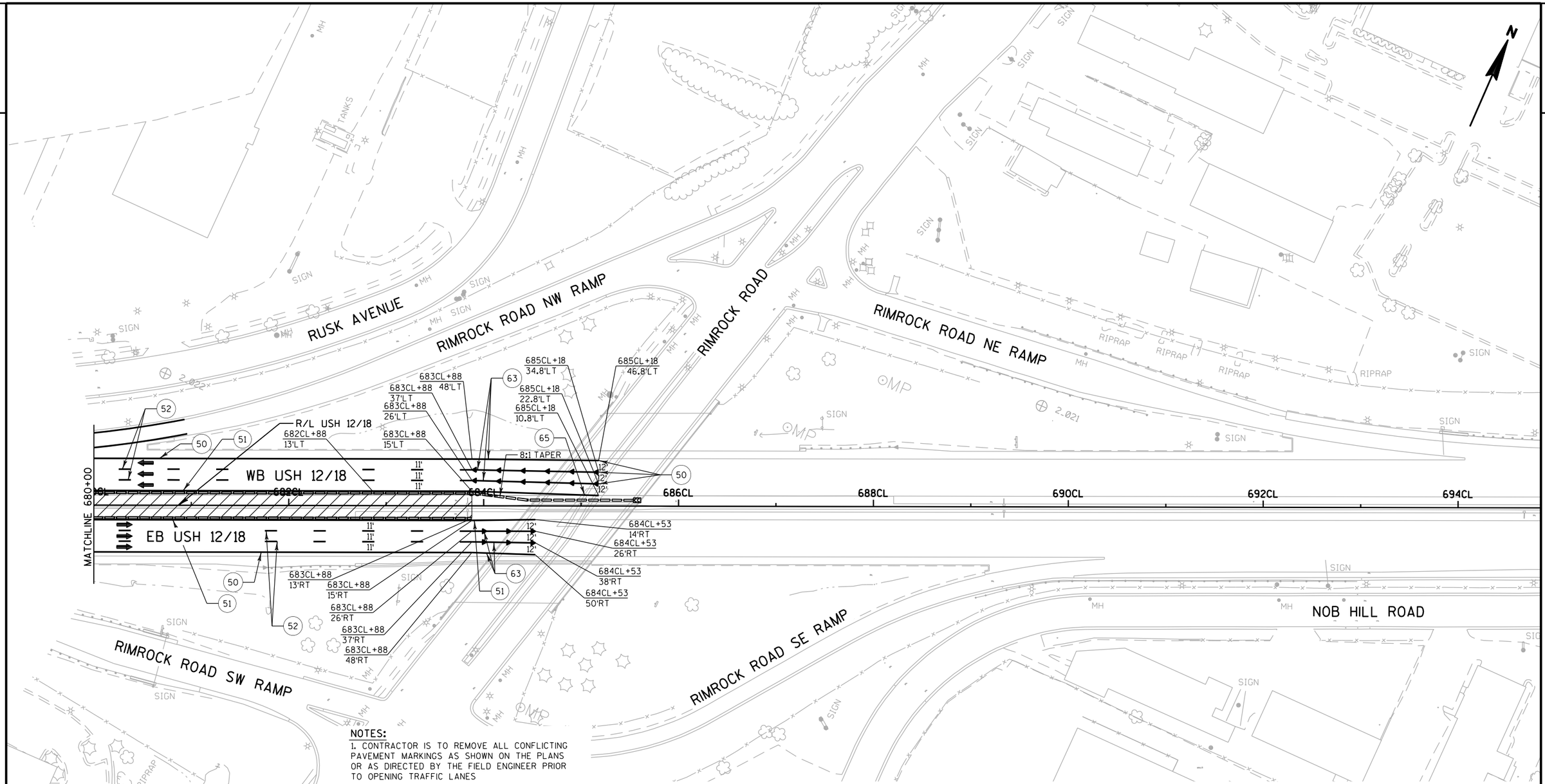
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- TEMPORARY RAISED PAVEMENT MARKERS
- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

TEMPORARY PAVEMENT MARKING LEGEND

- (50) TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 2	SHEET	E

2



NOTES:

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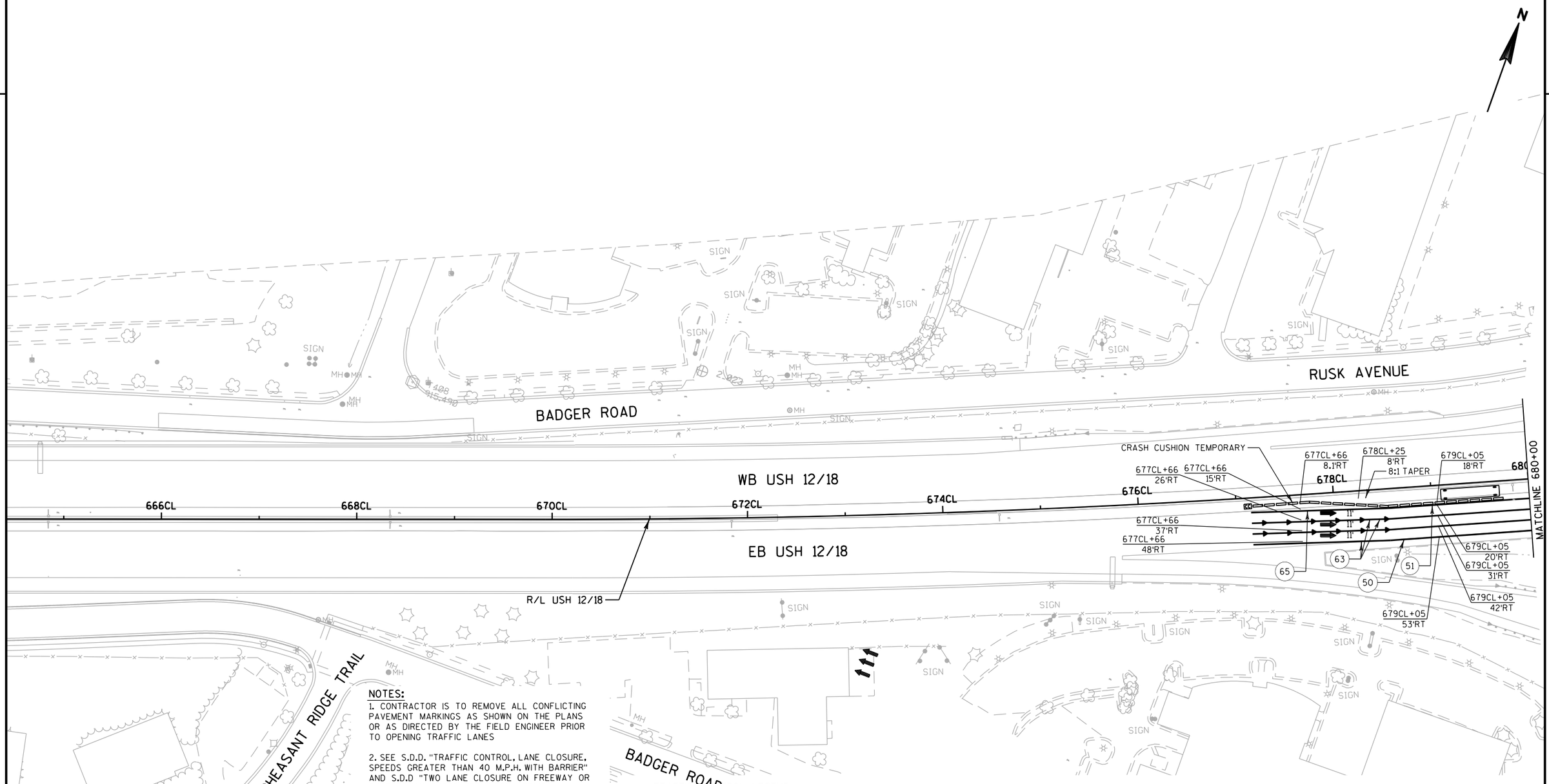
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 2	SHEET	E

2



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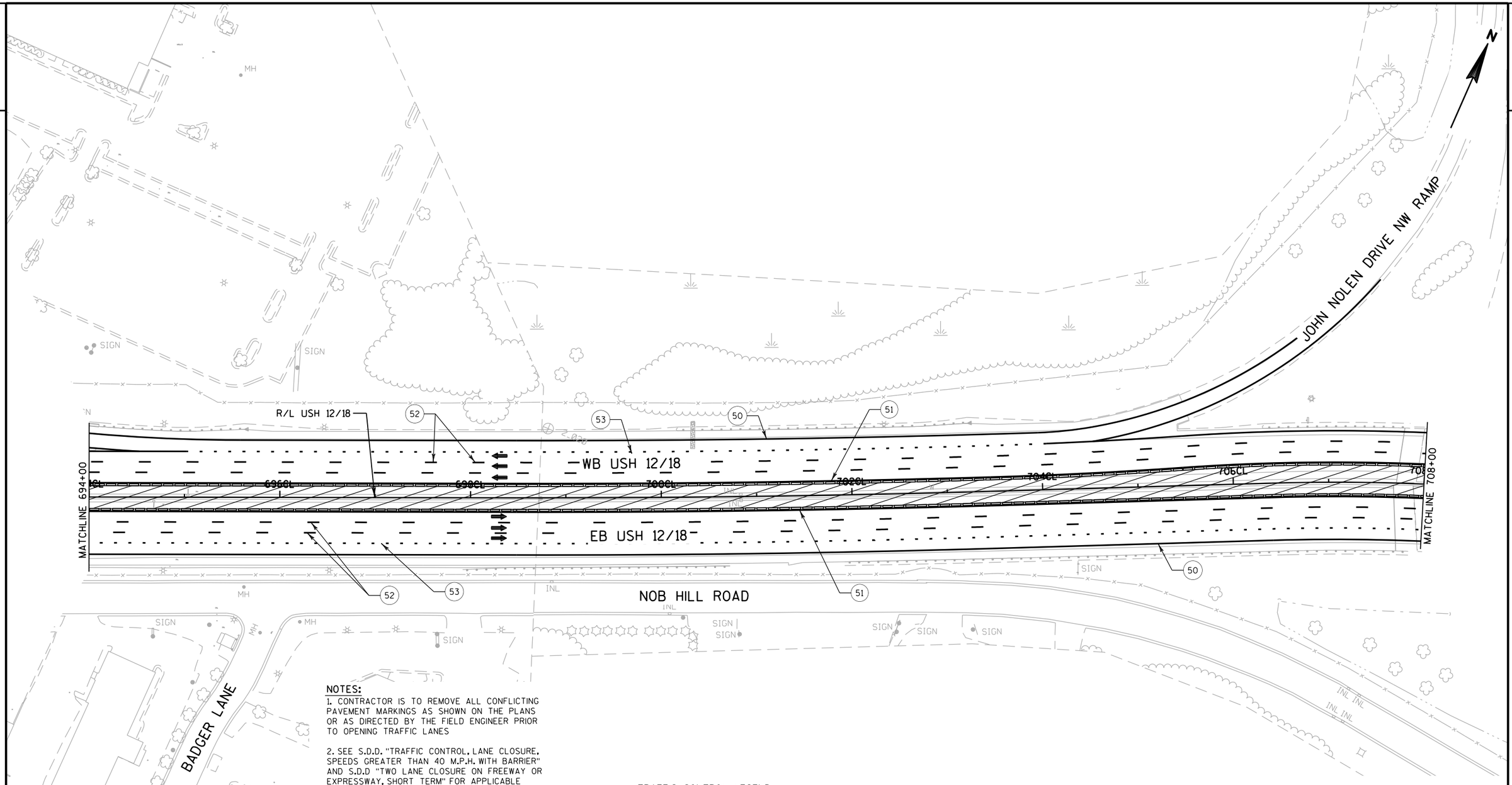
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 3	SHEET	E

2

2



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- TEMPORARY RAISED PAVEMENT MARKERS
- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
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- (52) TEMPORARY MARKING LINE EPOXY 4-INCH (DASHED-WHITE) (12.5 FT LINE 37.5 FT SKIP)
- (53) TEMPORARY MARKING LINE EPOXY 4-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 3	SHEET	E

2

NOTES:

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2. SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER" AND S.D.D "TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT TERM" FOR APPLICABLE DETAILS AND NOTES NOT SHOWN.

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4. LANE SKIPS AND OUTSIDE SHOULDER EDGELINE PERMANENT MARKINGS TO BE PLACED PRIOR TO MEDIAN CONSTRUCTION. SEE PAVEMENT MARKING SHEETS FOR DETAILS.

N

JOHN NOLEN DRIVE NE RAMP

WISCONSIN & SOUTHERN RAILROAD

R/L USH 12/18

WB USH 12/18

EB USH 12/18

MATCHLINE 708+00

MATCHLINE 723+00

JOHN NOLEN DRIVE SW RAMP

JOHN NOLEN DRIVE SE RAMP

NOB HILL ROAD

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL SIGN(S) ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGN(S) ON PERMANENT SUPPORT
- TRAFFIC CONTROL BARRICADE TYPE III WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
- TEMPORARY RAISED PAVEMENT MARKERS
- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

TEMPORARY PAVEMENT MARKING LEGEND

- (50) TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 3	SHEET	E

2

N

ROYAL AVE

WB USH 12/18

EB USH 12/18

R/L USH 12/18

MATCHLINE 723+00

MATCHLINE 737+50

ROYAL AVENUE

WISCONSIN & SOUTHERN RAILROAD

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL SIGN(S) ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGN(S) ON PERMANENT SUPPORT
- TRAFFIC CONTROL BARRICADE TYPE III WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
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- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 3	SHEET	E

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2

N

NANA LANE

SOUTH TOWNE DRIVE

SOUTH TOWNE DRIVE NW RAMP

WB USH 12/18

EB USH 12/18

R/L ~~USH~~ 12/18

MATCHLINE 737+50

MATCHLINE 752+00

738GL 740GL 742GL 744GL 746GL 748GL 750GL

ROYAL AVENUE

SOUTH TOWNE DRIVE SW RAMP

SIGN

INL

MH

W

50 51 52 53

NOTES:

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TRAFFIC CONTROL LEGEND

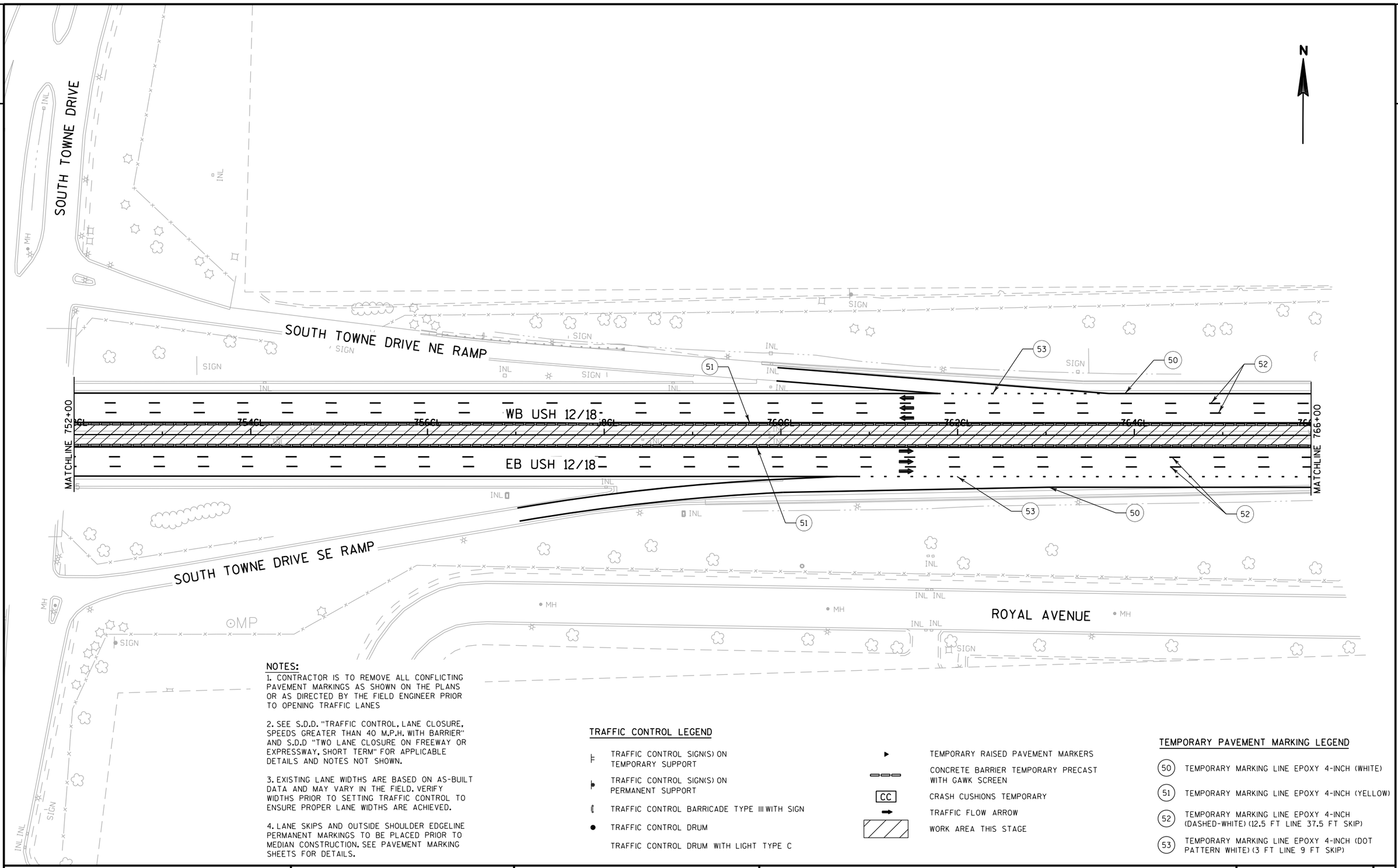
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- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
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- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

TEMPORARY PAVEMENT MARKING LEGEND

- (50) TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 3	SHEET	E

2



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TRAFFIC CONTROL LEGEND

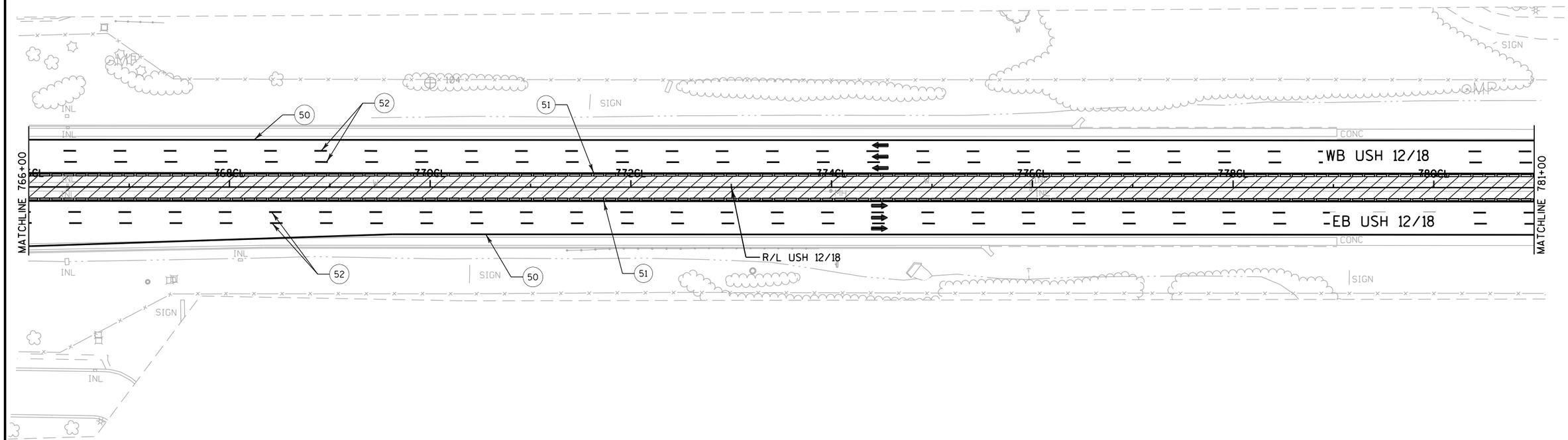
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- TRAFFIC CONTROL DRUM
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TEMPORARY PAVEMENT MARKING LEGEND

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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 3	SHEET	E

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TRAFFIC CONTROL LEGEND

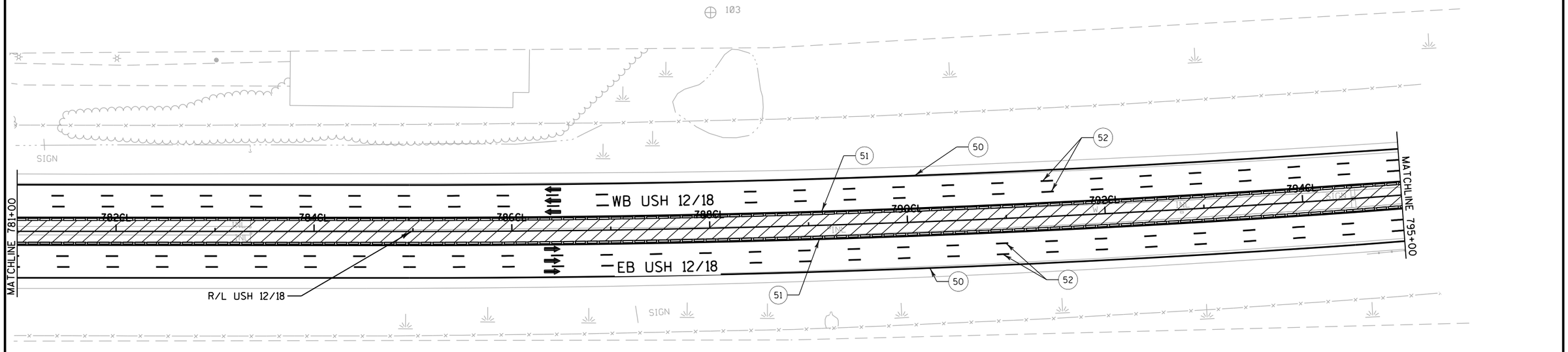
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TEMPORARY PAVEMENT MARKING LEGEND

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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 3	SHEET	E

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NOTES:

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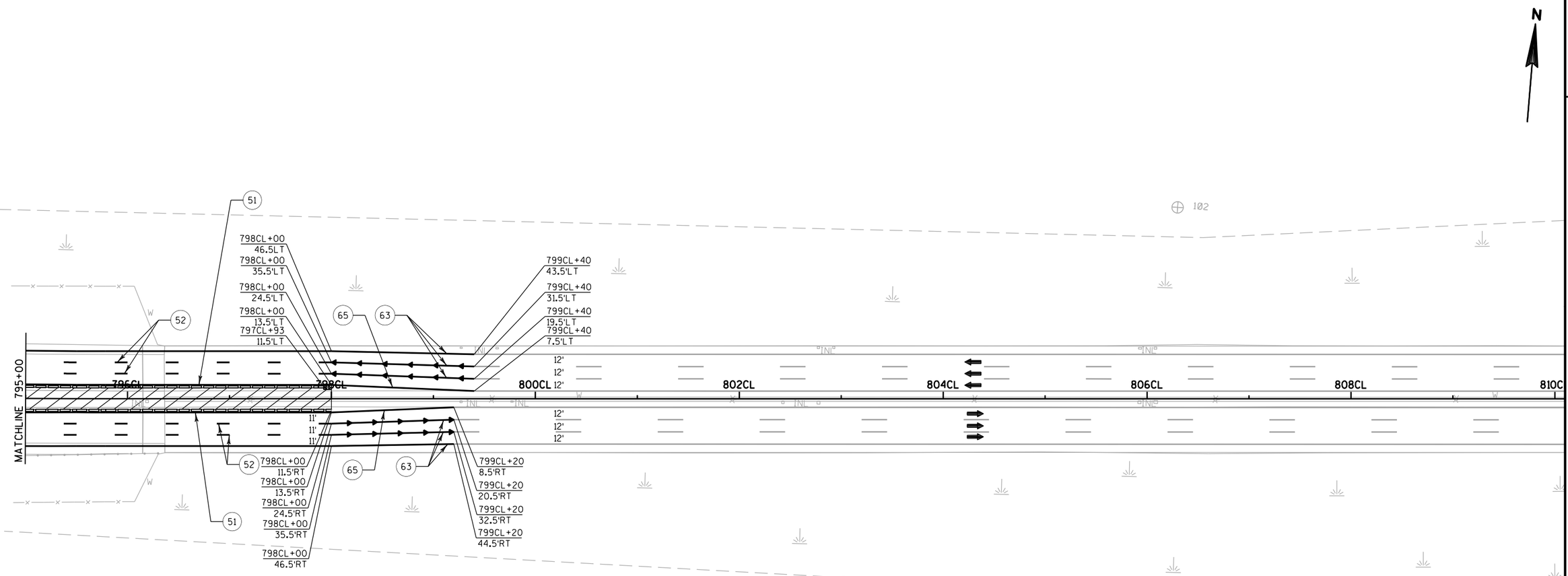
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- TRAFFIC FLOW ARROW
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TEMPORARY PAVEMENT MARKING LEGEND

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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 3	SHEET	E

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NOTES:

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TRAFFIC CONTROL LEGEND

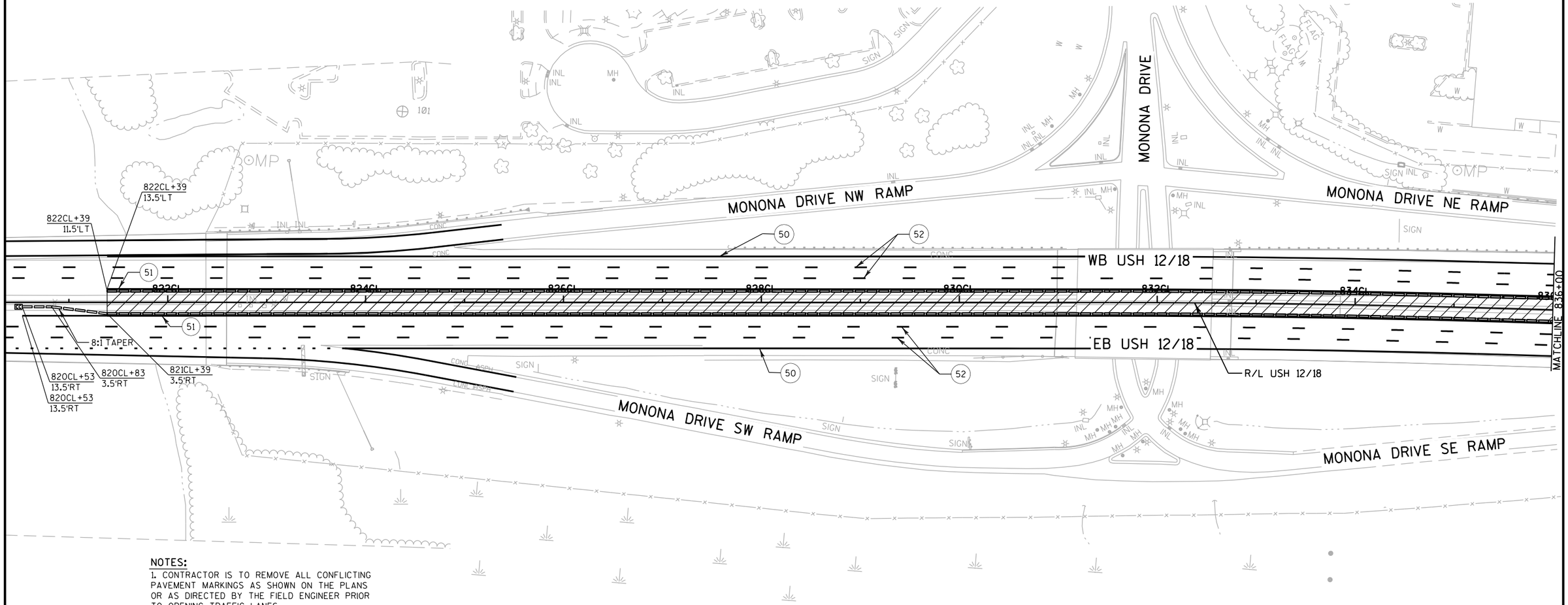
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TEMPORARY PAVEMENT MARKING LEGEND

- (50) TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
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- (52) TEMPORARY MARKING LINE EPOXY 4-INCH (DASHED-WHITE) (12.5 FT LINE 37.5 FT SKIP)
- (63) TEMPORARY MARKING LINE WET REFLECTIVE CONTRAST REMOVABLE TAPE 4-INCH (WHITE)
- (65) TEMPORARY MARKING LINE WET REFLECTIVE CONTRAST REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 3	SHEET	E

2



NOTES:

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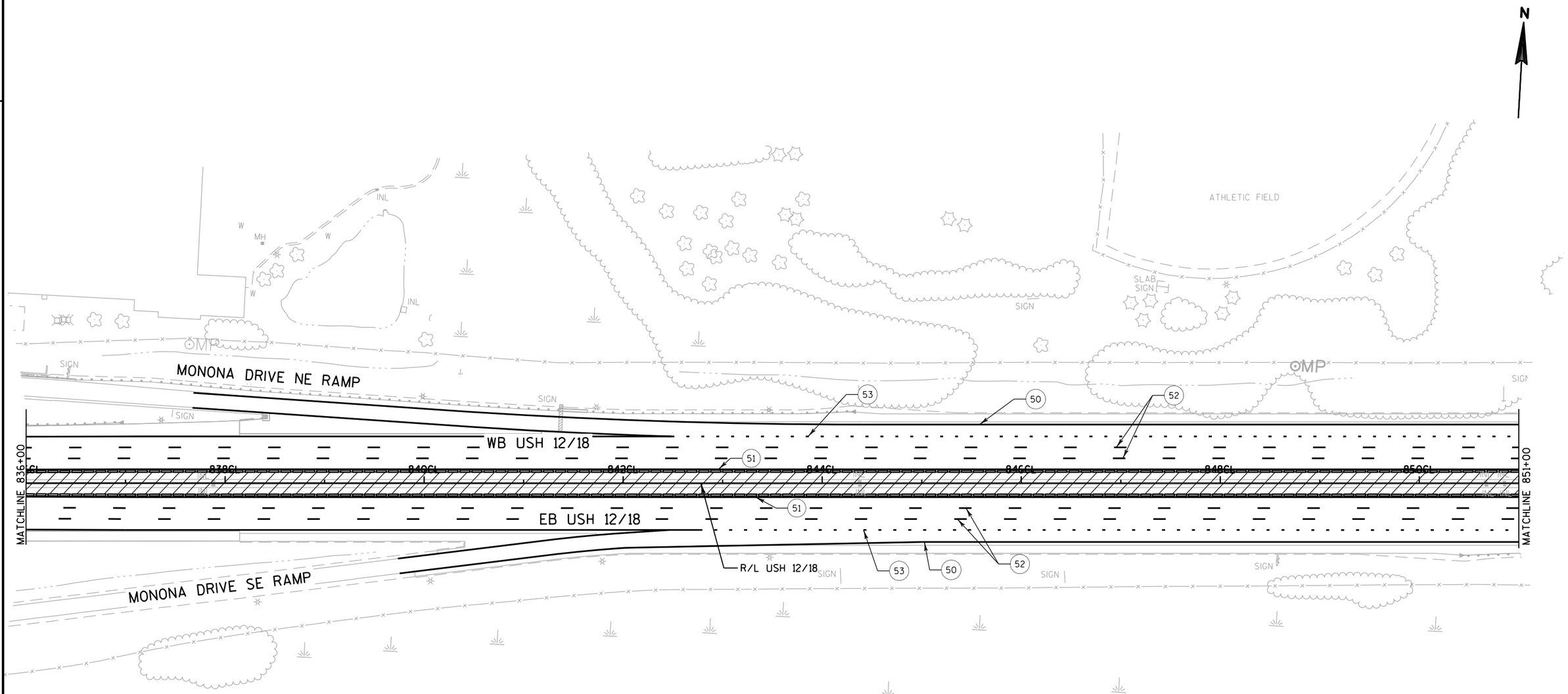
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 4	SHEET	E

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NOTES:

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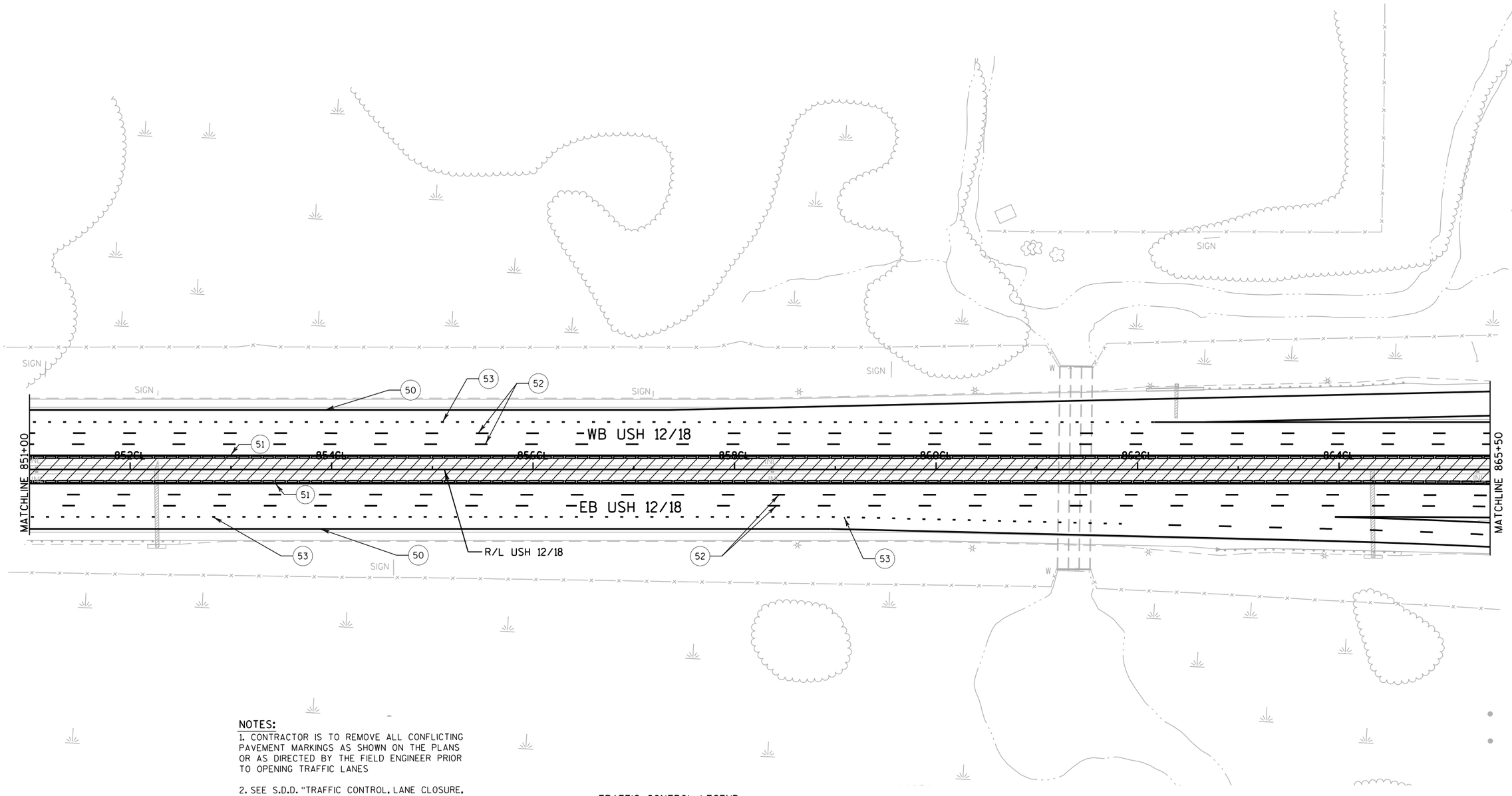
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 4	SHEET	E

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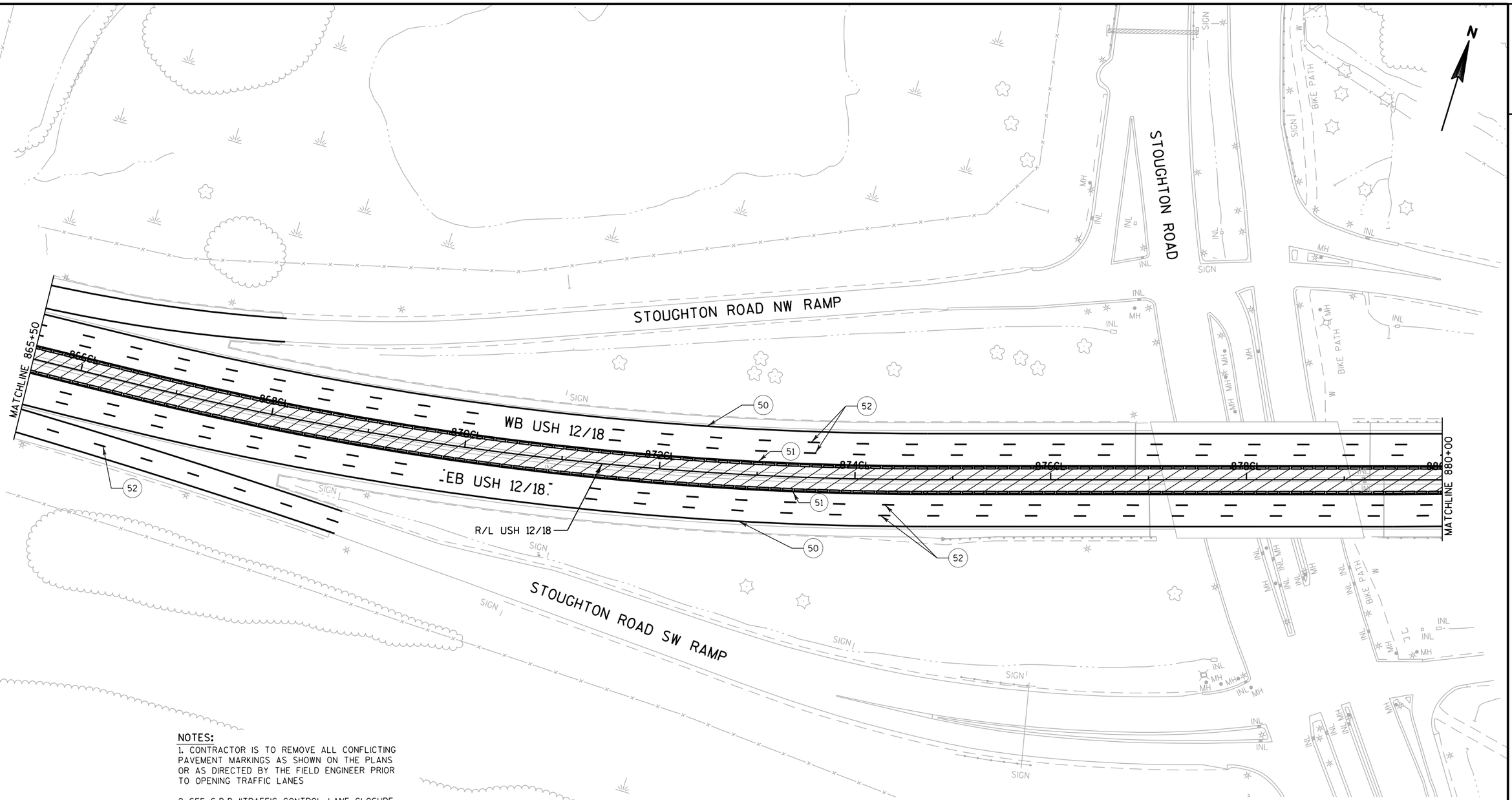
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 4	SHEET	E

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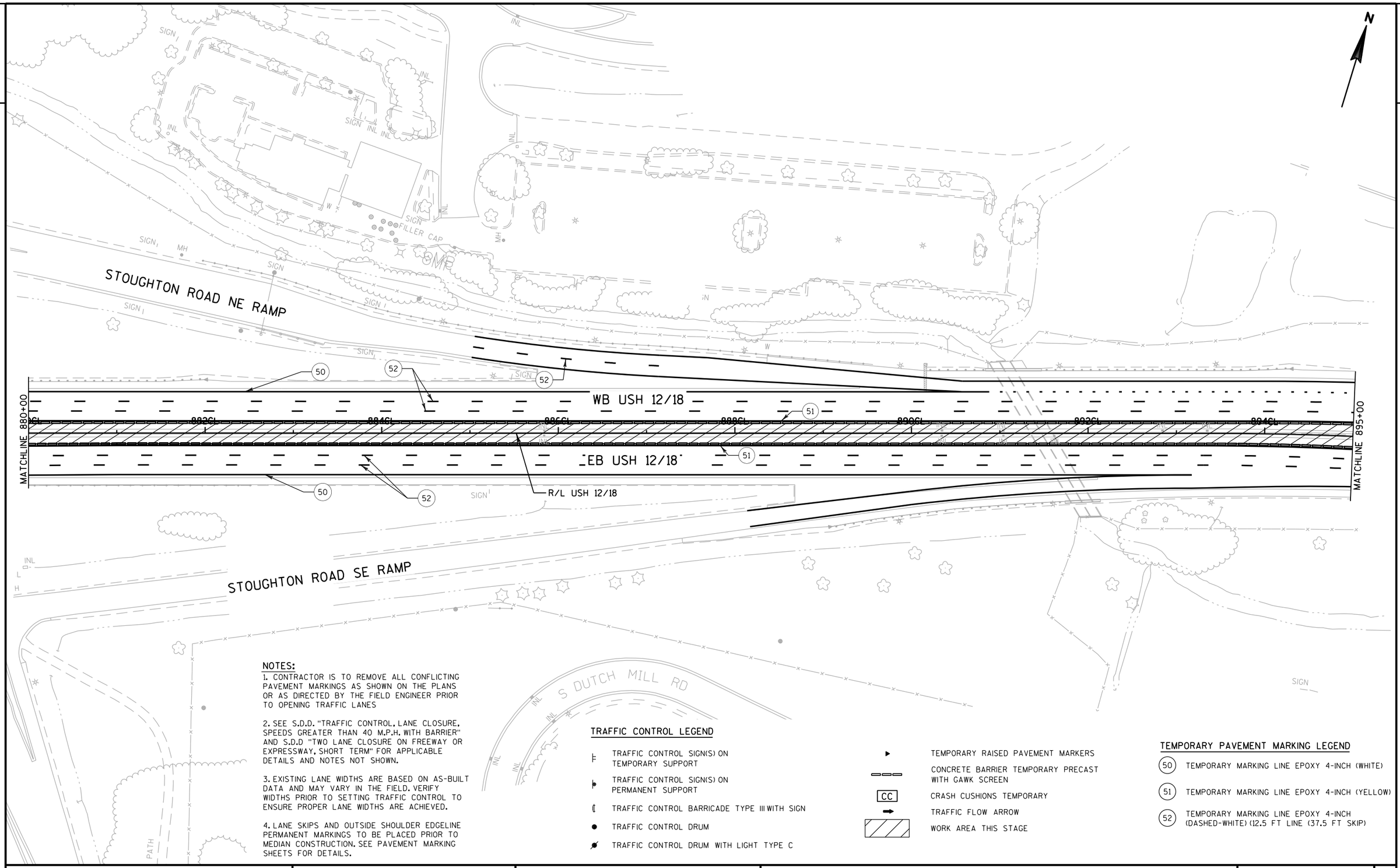
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3. EXISTING LANE WIDTHS ARE BASED ON AS-BUILT DATA AND MAY VARY IN THE FIELD. VERIFY WIDTHS PRIOR TO SETTING TRAFFIC CONTROL TO ENSURE PROPER LANE WIDTHS ARE ACHIEVED.

4. LANE SKIPS AND OUTSIDE SHOULDER EDGELINE PERMANENT MARKINGS TO BE PLACED PRIOR TO MEDIAN CONSTRUCTION. SEE PAVEMENT MARKING SHEETS FOR DETAILS.

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL SIGN(S) ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGN(S) ON PERMANENT SUPPORT
- TRAFFIC CONTROL BARRICADE TYPE III WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
- TEMPORARY RAISED PAVEMENT MARKERS
- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

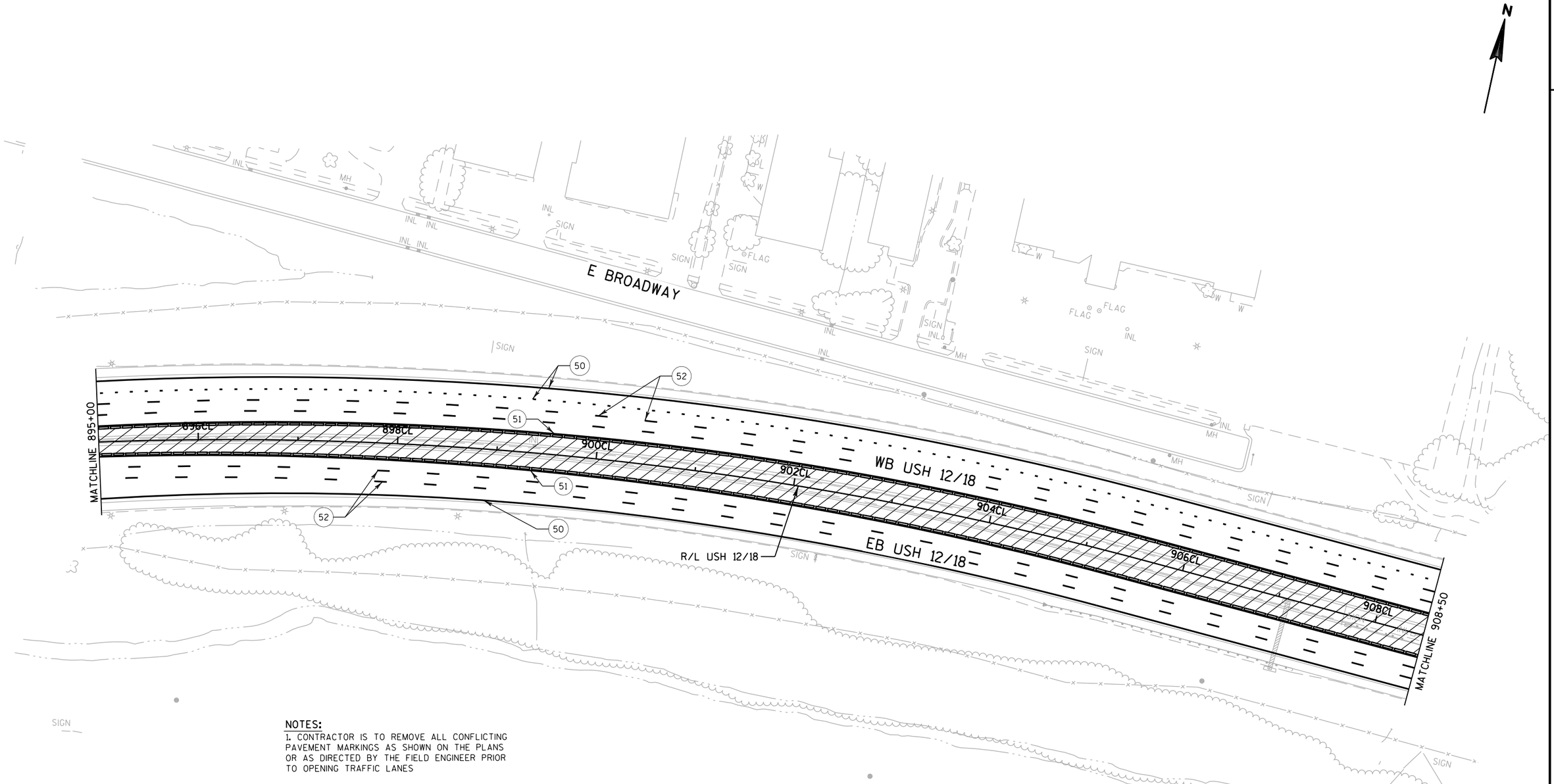
TEMPORARY PAVEMENT MARKING LEGEND

- (50) TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
- (51) TEMPORARY MARKING LINE EPOXY 4-INCH (YELLOW)
- (52) TEMPORARY MARKING LINE EPOXY 4-INCH (DASHED-WHITE) (12.5 FT LINE (37.5 FT SKIP)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 4	SHEET	E

2

2



NOTES:

1. CONTRACTOR IS TO REMOVE ALL CONFLICTING PAVEMENT MARKINGS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE FIELD ENGINEER PRIOR TO OPENING TRAFFIC LANES

2. SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER" AND S.D.D "TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT TERM" FOR APPLICABLE DETAILS AND NOTES NOT SHOWN.

3. EXISTING LANE WIDTHS ARE BASED ON AS-BUILT DATA AND MAY VARY IN THE FIELD. VERIFY WIDTHS PRIOR TO SETTING TRAFFIC CONTROL TO ENSURE PROPER LANE WIDTHS ARE ACHIEVED.

4. LANE SKIPS AND OUTSIDE SHOULDER EDGELINE PERMANENT MARKINGS TO BE PLACED PRIOR TO MEDIAN CONSTRUCTION. SEE PAVEMENT MARKING SHEETS FOR DETAILS.

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL SIGN(S) ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGN(S) ON PERMANENT SUPPORT
- TRAFFIC CONTROL BARRICADE TYPE III WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
- TEMPORARY RAISED PAVEMENT MARKERS
- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC — CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

TEMPORARY PAVEMENT MARKING LEGEND

- (50) TEMPORARY MARKING LINE EPOXY 4-INCH (WHITE)
- (51) TEMPORARY MARKING LINE EPOXY 4-INCH (YELLOW)
- (52) TEMPORARY MARKING LINE EPOXY 4-INCH (DASHED-WHITE) (12.5 FT LINE (37.5 FT SKIP)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 4	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\026028_s2_segment4.dgn PLOT DATE : 1/31/2020 2:32:32 PM PLOT BY : cjustman PLOT NAME : PLOT SCALE : 100:1

2

N

AGRICULTURE DRIVE

WB USH 12/18

EB USH 12/18

R/L USH 12/18

MATCHLINE 908+50

910CL 912CL 914CL 916CL 918CL 920CL 922CL

911CL+00 56'LT
911CL+00 45'LT
911CL+85 56.3'LT
911CL+00 21'LT
911CL+00 23'LT
911CL+00 34'LT
911CL+85 44.3'LT
911CL+85 32.3'LT
911CL+85 20.3'LT
911CL+85 14'LT
8:1 TAPER

909CL+00 21'RT
909CL+00 23'RT
909CL+00 34'RT
909CL+00 45'RT
909CL+00 56'RT
909CL+87 18.3'RT
909CL+87 20.3'RT
909CL+87 32.3'RT
909CL+87 44.3'RT
909CL+87 56.3'RT

52 53 63 65

SIGN RIPRAP

NOTES:

1. CONTRACTOR IS TO REMOVE ALL CONFLICTING PAVEMENT MARKINGS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE FIELD ENGINEER PRIOR TO OPENING TRAFFIC LANES

2. SEE S.D.D. "TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H. WITH BARRIER" AND S.D.D "TWO LANE CLOSURE ON FREEWAY OR EXPRESSWAY, SHORT TERM" FOR APPLICABLE DETAILS AND NOTES NOT SHOWN.

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TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL SIGN(S) ON TEMPORARY SUPPORT
- TRAFFIC CONTROL SIGN(S) ON PERMANENT SUPPORT
- TRAFFIC CONTROL BARRICADE TYPE III WITH SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
- TEMPORARY RAISED PAVEMENT MARKERS
- CONCRETE BARRIER TEMPORARY PRECAST WITH GAWK SCREEN
- CC CRASH CUSHIONS TEMPORARY
- TRAFFIC FLOW ARROW
- WORK AREA THIS STAGE

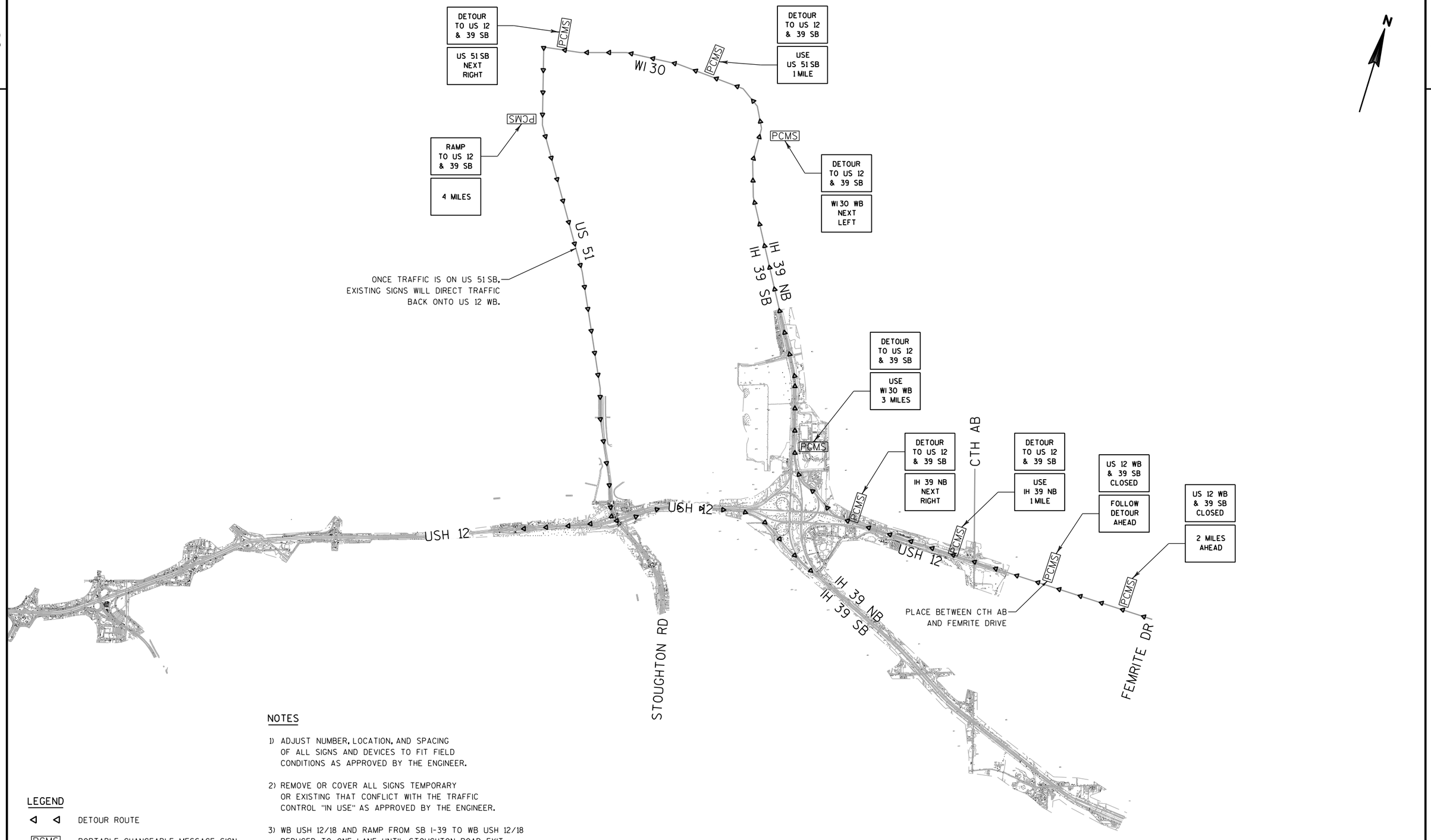
TEMPORARY PAVEMENT MARKING LEGEND

- (52) TEMPORARY MARKING LINE EPOXY 4-INCH (DASHED-WHITE) (12.5 FT LINE (37.5 FT SKIP)
- (53) TEMPORARY MARKING LINE EPOXY 4-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
- (63) TEMPORARY MARKING LINE WET REFLECTIVE CONTRAST REMOVABLE TAPE 4-INCH (WHITE)
- (65) TEMPORARY MARKING LINE WET REFLECTIVE CONTRAST REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: STAGE 2, SEGMENT 4	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\026029_s2_segment4.dgn PLOT DATE : 1/31/2020 2:32:33 PM PLOT BY : cjustman PLOT NAME : PLOT SCALE : 100:1

2



NOTES

1) ADJUST NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

2) REMOVE OR COVER ALL SIGNS TEMPORARY OR EXISTING THAT CONFLICT WITH THE TRAFFIC CONTROL "IN USE" AS APPROVED BY THE ENGINEER.

3) WB USH 12/18 AND RAMP FROM SB I-39 TO WB USH 12/18 REDUCED TO ONE LANE UNTIL STOUGHTON ROAD EXIT.

LEGEND

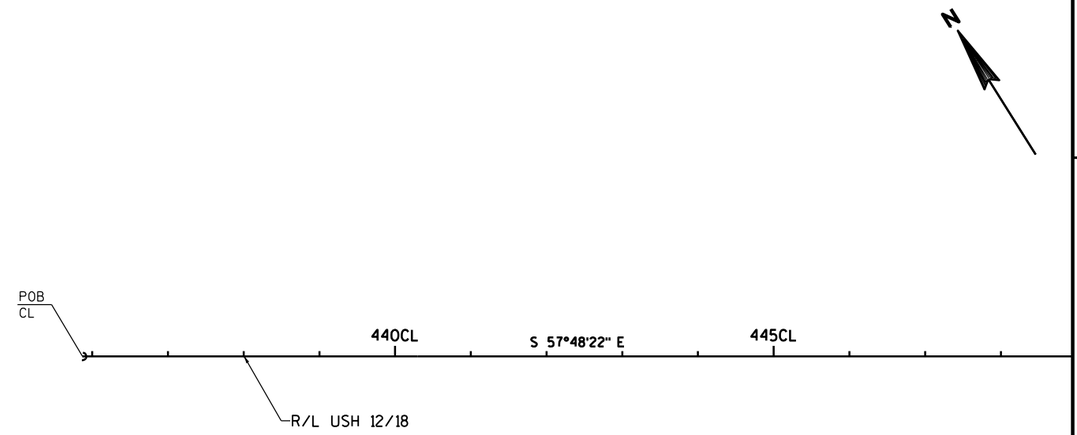
◁ ◁ DETOUR ROUTE

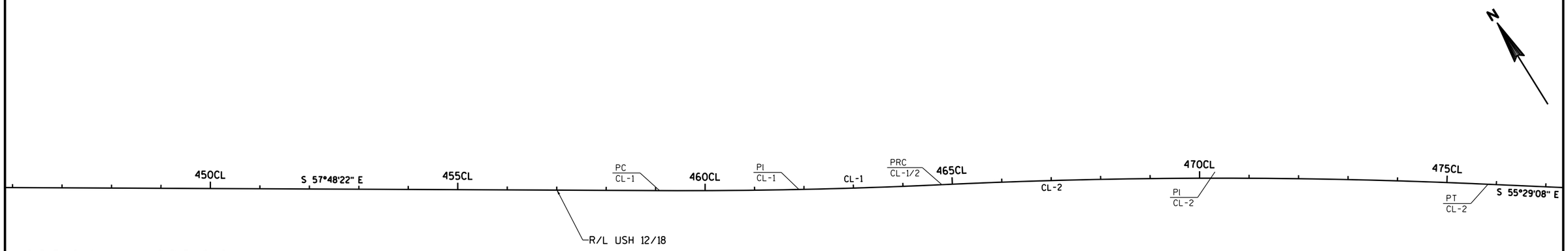
PCMS PORTABLE CHANGEABLE MESSAGE SIGN

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	TRAFFIC CONTROL: US 12 WB CLOSURE DETOUR	SHEET	E

2

POINT OF BEGINNING: CL
PI = 435CL+87.16
X = 799111.43
Y = 471349.60
AH = S 57°48'22" E





CURVE : CL-1
PC = 459CL+08.08
X = 801075.51
Y = 470113.04
PI = 461CL+93.49
X = 801317.03
Y = 469960.98
PRC = 464CL+78.78
X = 801566.04
Y = 469821.51

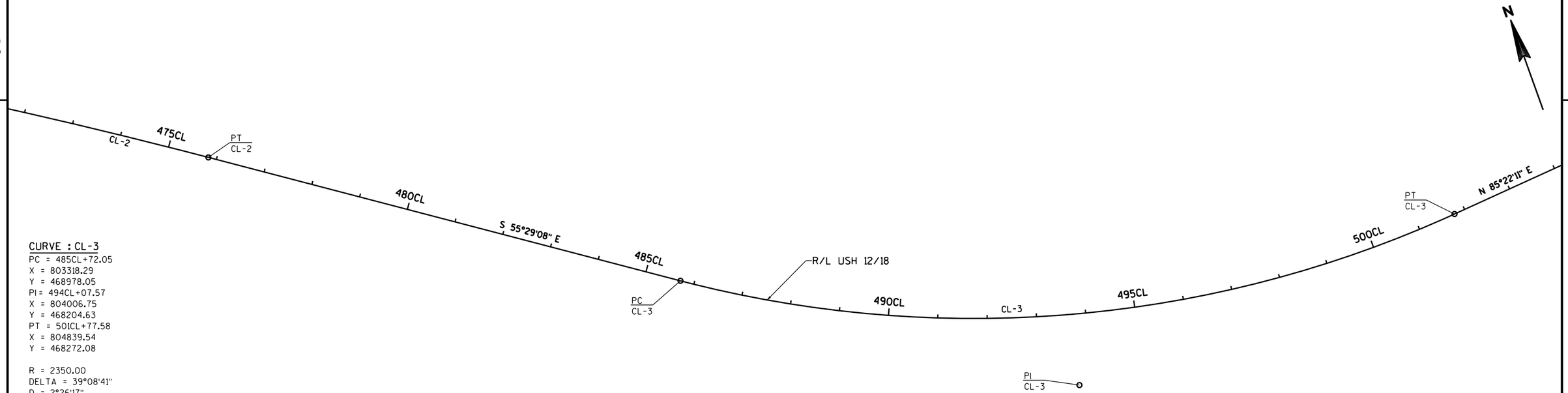
R = 11124.00
DELTA = 2°56'22"
D = 0°30'54"
L = 570.69
T = 285.41
E = 3.66
BK = S 57°48'22" E
AH = S 60°44'44" E

CURVE : CL-2
PRC = 464CL+78.78
X = 801566.04
Y = 469821.51
PI = 470CL+31.36
X = 802048.15
Y = 469551.46
PT = 475CL+83.17
X = 802503.47
Y = 469238.36

R = 12030.00
DELTA = 5°15'36"
D = 0°28'35"
L = 1104.39
T = 552.58
E = 12.68
BK = S 60°44'44" E
AH = S 55°29'08" E

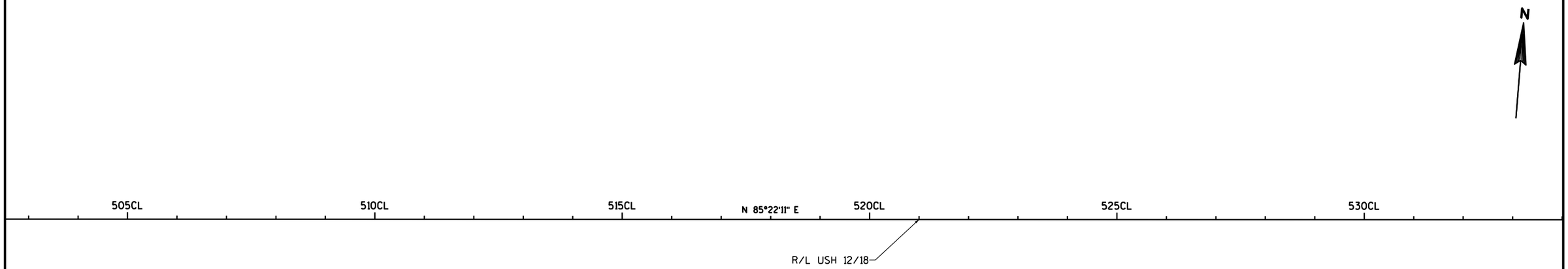
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	ALIGNMENT PLAN	SHEET	E

2



CURVE : CL-3
PC = 485CL+72.05
X = 803318.29
Y = 468978.05
PI = 494CL+07.57
X = 804006.75
Y = 468204.63
PT = 501CL+77.58
X = 804839.54
Y = 468272.08

R = 2350.00
DELTA = 39°08'41"
D = 2°26'17"
L = 1605.53
T = 835.52
E = 144.11
BK = S 55°29'08" E
AH = N 85°22'11" E

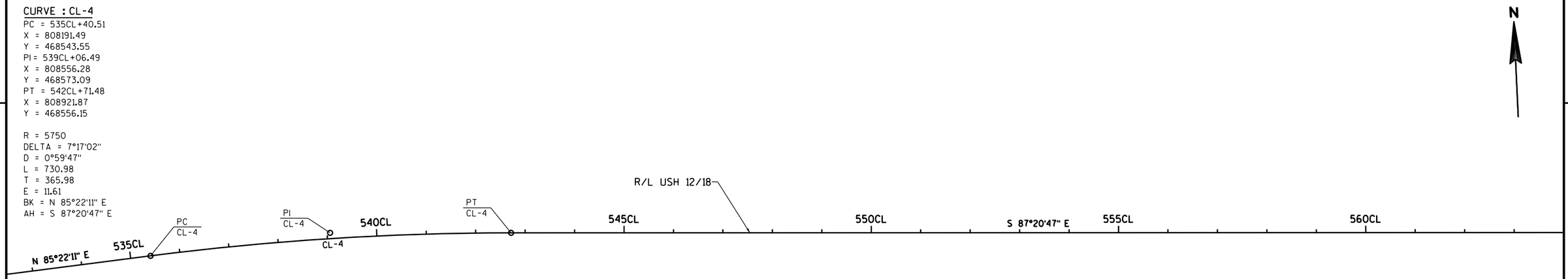


PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	ALIGNMENT PLAN	SHEET	E

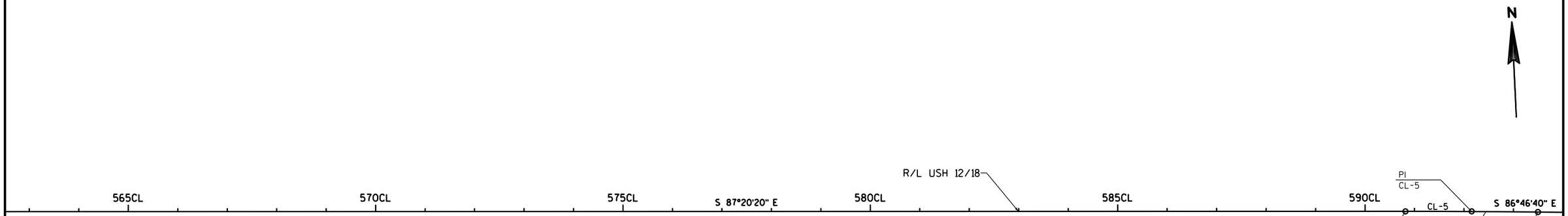
2

CURVE : CL-4
PC = 535CL+40.51
X = 808191.49
Y = 468543.55
PI = 539CL+06.49
X = 808556.28
Y = 468573.09
PT = 542CL+71.48
X = 808921.87
Y = 468556.15

R = 5750
DELTA = 7°17'02"
D = 0°59'47"
L = 730.98
T = 365.98
E = 11.61
BK = N 85°22'11" E
AH = S 87°20'47" E



2



CURVE : CL-5
PC = 590CL+81.67
X = 813726.90
Y = 468333.45
PI = 592CL+15.65
X = 813860.73
Y = 468327.25
PT = 593CL+49.62
X = 813994.49
Y = 468319.72

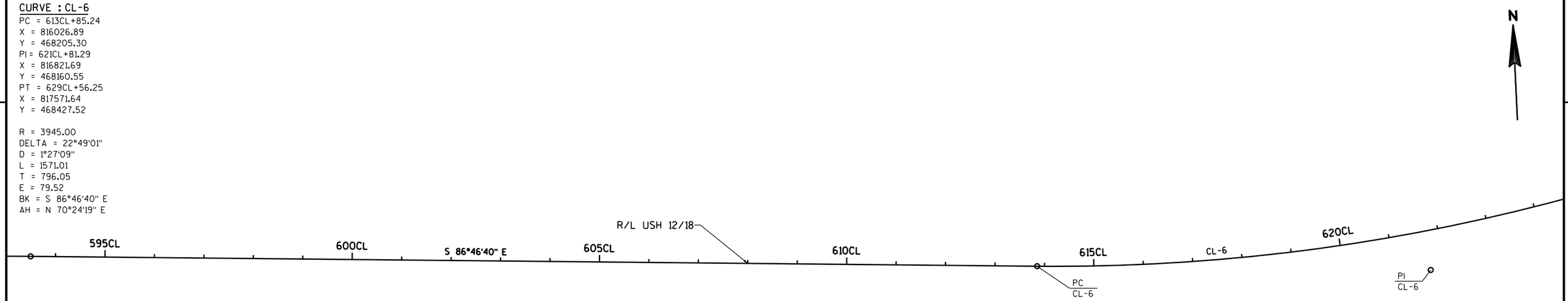
R = 2700.00
DELTA = 0°34'07"
D = 0°12'44"
L = 267.94
T = 133.97
E = 0.33
BK = N 87°20'47" E
AH = N 86°46'40" E

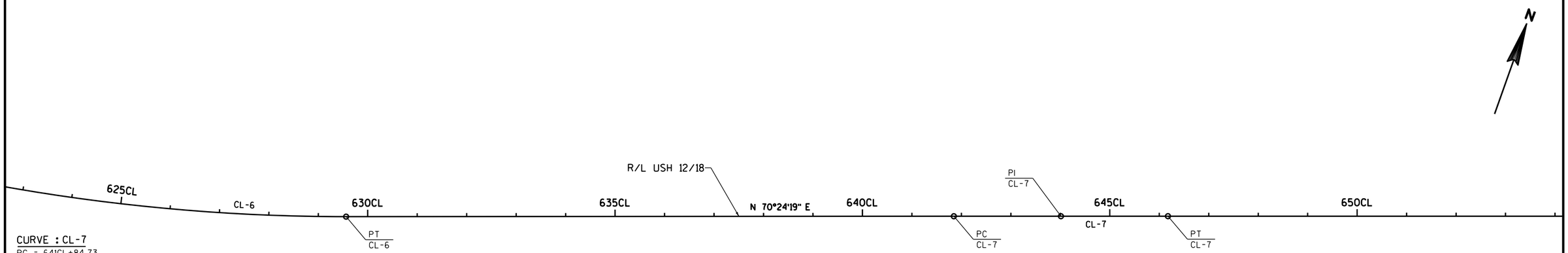
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	ALIGNMENT PLAN	SHEET	E

2

CURVE : CL-6
PC = 613CL+85.24
X = 816026.89
Y = 468205.30
PI = 621CL+81.29
X = 816821.69
Y = 468160.55
PT = 629CL+56.25
X = 817571.64
Y = 468427.52

R = 3945.00
DELTA = 22°49'01"
D = 1°27'09"
L = 1571.01
T = 796.05
E = 79.52
BK = S 86°46'40" E
AH = N 70°24'19" E





CURVE : CL-7
PC = 641CL+84.73
X = 817571.64
Y = 468839.51
PI = 644CL+01.14
X = 818932.86
Y = 468912.08
PT = 646CL+17.55
X = 819136.78
Y = 469984.54

R = 735000
DELTA = 0°02'01"
D = 0°00'28"
L = 432.82
T = 216.41
E = 0.03
BK = N 70°24'19" E
AH = N 70°26'21" E

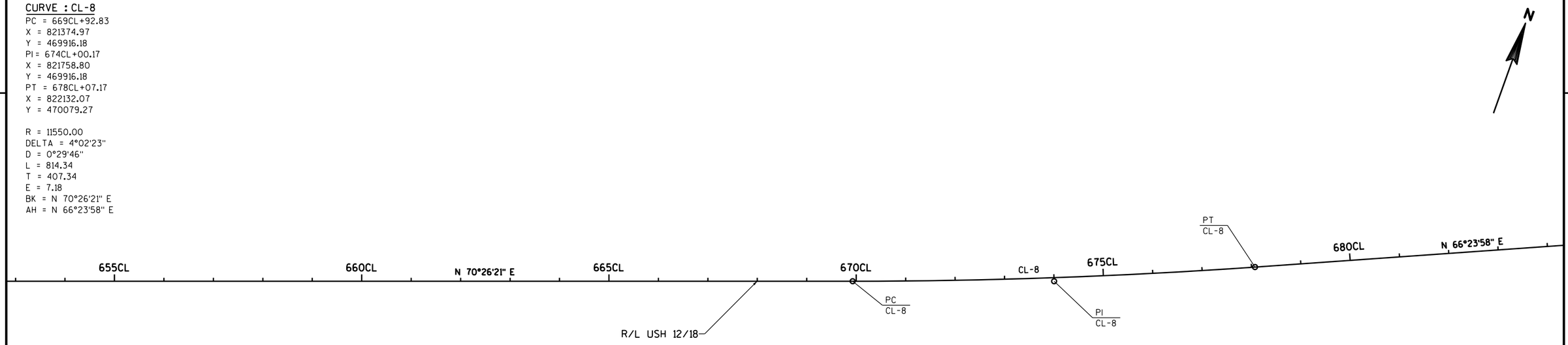
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	ALIGNMENT PLAN	SHEET	E

2

CURVE : CL-8

PC = 669CL+92.83
X = 821374.97
Y = 469916.18
PI = 674CL+00.17
X = 821758.80
Y = 469916.18
PT = 678CL+07.17
X = 822132.07
Y = 470079.27

R = 11550.00
DELTA = 4°02'23"
D = 0°29'46"
L = 814.34
T = 407.34
E = 7.18
BK = N 70°26'21" E
AH = N 66°23'58" E



2

CURVE : CL-9

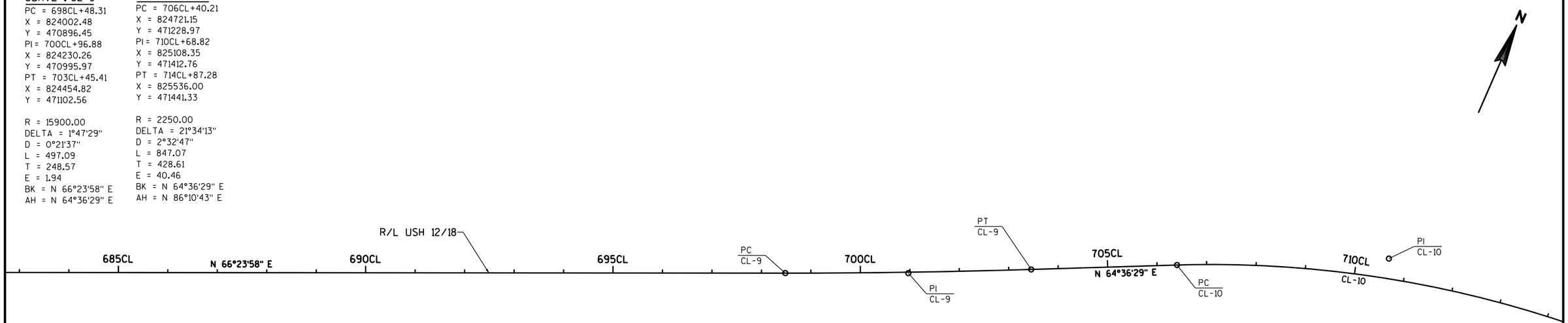
PC = 698CL+48.31
X = 824002.48
Y = 470896.45
PI = 700CL+96.88
X = 824230.26
Y = 470995.97
PT = 703CL+45.41
X = 824454.82
Y = 471102.56

R = 15900.00
DELTA = 1°47'29"
D = 0°21'37"
L = 497.09
T = 248.57
E = 1.94
BK = N 66°23'58" E
AH = N 64°36'29" E

CURVE : CL-10

PC = 706CL+40.21
X = 824721.15
Y = 471228.97
PI = 710CL+68.82
X = 825108.35
Y = 471412.76
PT = 714CL+87.28
X = 825536.00
Y = 471441.33

R = 2250.00
DELTA = 21°34'13"
D = 2°32'47"
L = 847.07
T = 428.61
E = 40.46
BK = N 64°36'29" E
AH = N 86°10'43" E



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	ALIGNMENT PLAN	SHEET	E

2

CURVE : CL-11

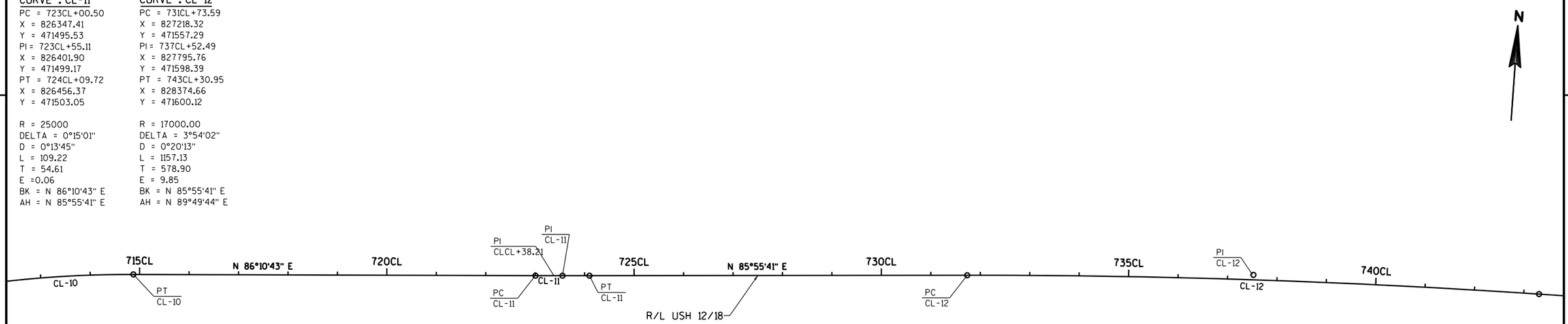
PC = 723CL+00.50
X = 826347.41
Y = 471495.53
PI = 723CL+55.11
X = 826401.90
Y = 471499.17
PT = 724CL+09.72
X = 826456.37
Y = 471503.05

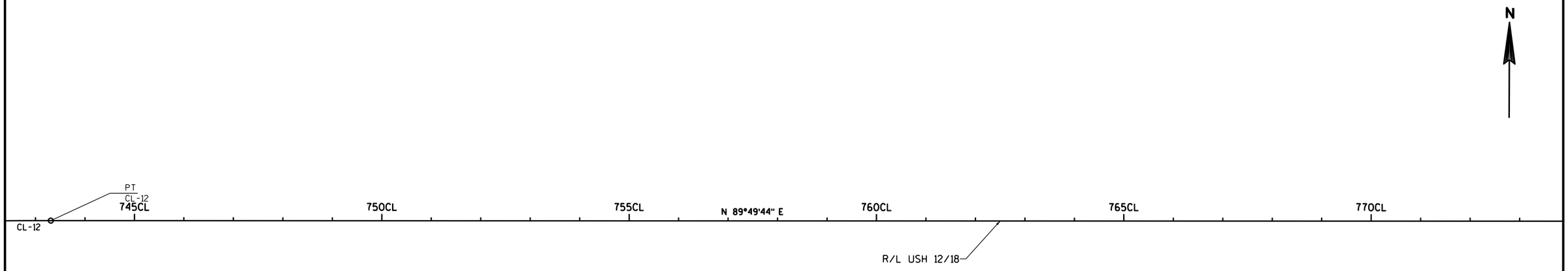
R = 25000
DELTA = 0°15'01"
D = 0°13'45"
L = 109.22
T = 54.61
E =0.06
BK = N 86°10'43" E
AH = N 85°55'41" E

CURVE : CL-12

PC = 731CL+73.59
X = 827218.32
Y = 471557.29
PI = 737CL+52.49
X = 827795.76
Y = 471598.39
PT = 743CL+30.95
X = 828374.66
Y = 471600.12

R = 17000.00
DELTA = 3°54'02"
D = 0°20'13"
L = 1157.13
T = 578.90
E = 9.85
BK = N 85°55'41" E
AH = N 89°49'44" E



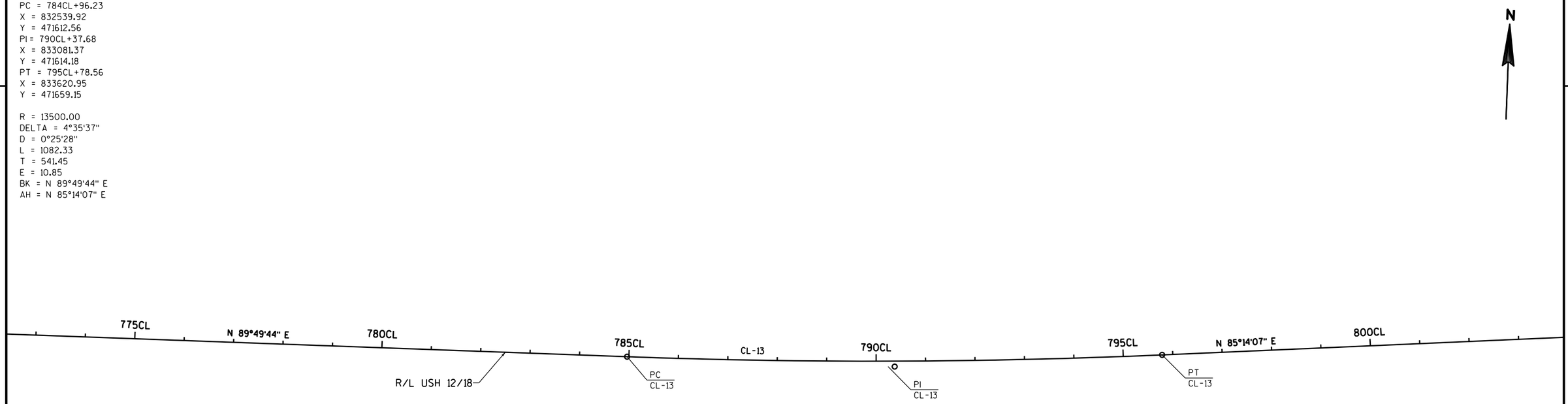


PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	ALIGNMENT PLAN	SHEET	E

2

CURVE : CL-13
PC = 784CL+96.23
X = 832539.92
Y = 471612.56
PI = 790CL+37.68
X = 833081.37
Y = 471614.18
PT = 795CL+78.56
X = 833620.95
Y = 471659.15

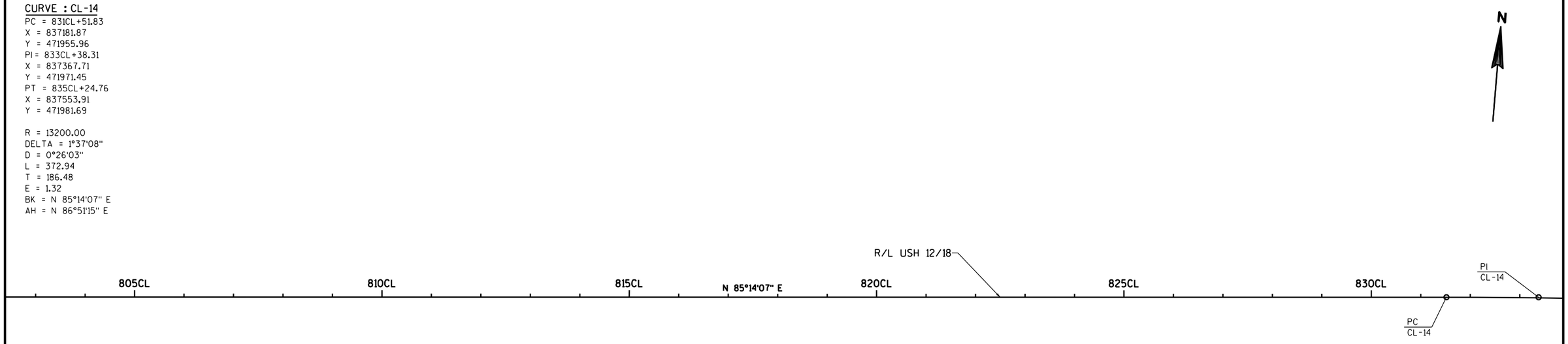
R = 13500.00
DELTA = 4°35'37"
D = 0°25'28"
L = 1082.33
T = 541.45
E = 10.85
BK = N 89°49'44" E
AH = N 85°14'07" E



2

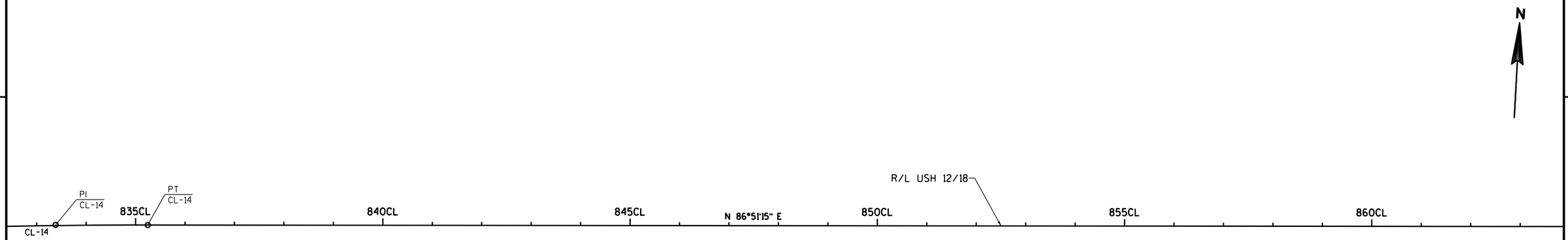
CURVE : CL-14
PC = 831CL+51.83
X = 837181.87
Y = 471955.96
PI = 833CL+38.31
X = 837367.71
Y = 471971.45
PT = 835CL+24.76
X = 837553.91
Y = 471981.69

R = 13200.00
DELTA = 1°37'08"
D = 0°26'03"
L = 372.94
T = 186.48
E = 1.32
BK = N 85°14'07" E
AH = N 86°51'15" E



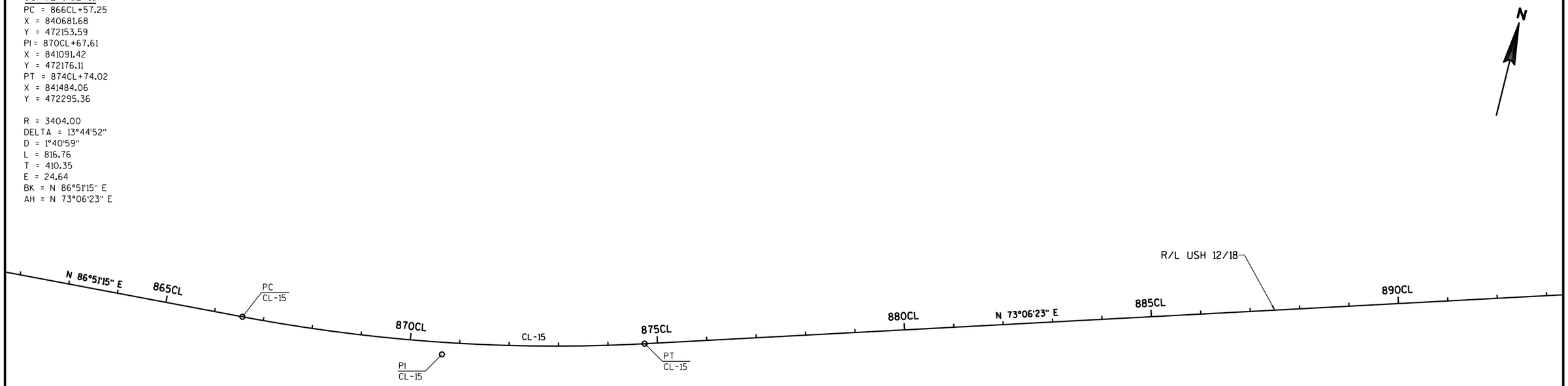
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	ALIGNMENT PLAN	SHEET	E

2



CURVE : CL-15
PC = 866CL+57.25
X = 840681.68
Y = 472153.59
PI = 870CL+67.61
X = 841091.42
Y = 472176.11
PT = 874CL+74.02
X = 841484.06
Y = 472295.36

R = 3404.00
DELTA = 13°44'52"
D = 1°40'59"
L = 816.76
T = 410.35
E = 24.64
BK = N 86°51'15" E
AH = N 73°06'23" E

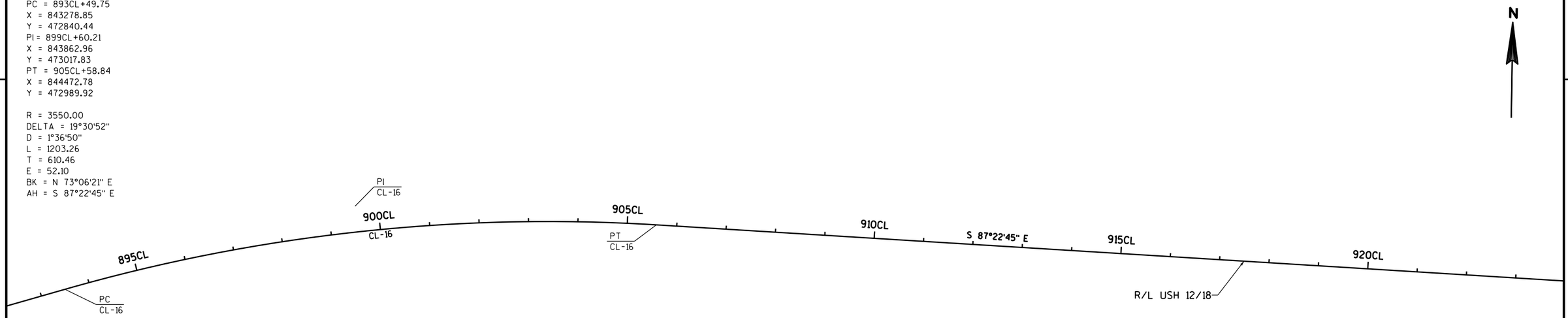


PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	ALIGNMENT PLAN	SHEET	E

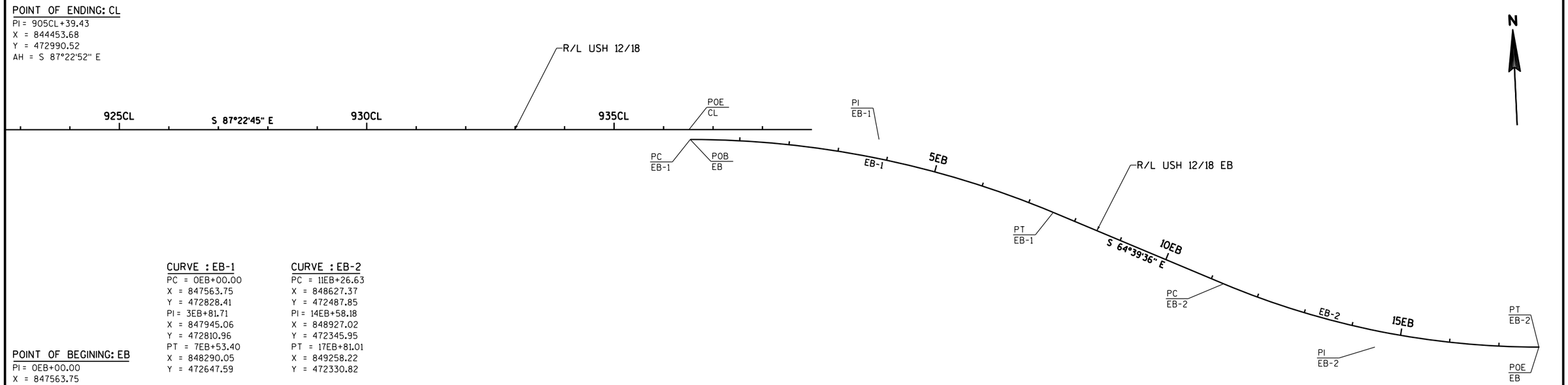
2

CURVE : CL-16
PC = 893CL+49.75
X = 843278.85
Y = 472840.44
PI = 899CL+60.21
X = 843862.96
Y = 473017.83
PT = 905CL+58.84
X = 844472.78
Y = 472989.92

R = 3550.00
DELTA = 19°30'52"
D = 1°36'50"
L = 1203.26
T = 610.46
E = 52.10
BK = N 73°06'21" E
AH = S 87°22'45" E



POINT OF ENDING: CL
PI = 905CL+39.43
X = 844453.68
Y = 472990.52
AH = S 87°22'52" E



POINT OF BEGINING: EB
PI = 0EB+00.00
X = 847563.75
Y = 472828.41
AH = S 87°22'45" E

POINT OF ENDING: EB
PI = 17EB+81.01
X = 849258.22
Y = 472330.82
AH = S 87°23'00" E

CURVE : EB-1
PC = 0EB+00.00
X = 847563.75
Y = 472828.41
PI = 3EB+81.71
X = 847945.06
Y = 472810.96
PT = 7EB+53.40
X = 848290.05
Y = 472647.59

R = 1900.00
DELTA = 22°43'09"
D = 3°00'56"
L = 753.40
T = 381.71
E = 37.96
BK = S 87°22'45" E
AH = S 64°39'36" E

CURVE : EB-2
PC = 11EB+26.63
X = 848627.37
Y = 472487.85
PI = 14EB+58.18
X = 848927.02
Y = 472345.95
PT = 17EB+81.01
X = 849258.22
Y = 472330.82

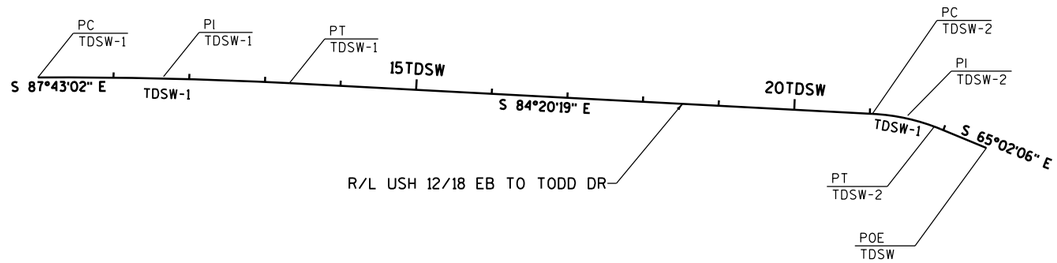
R = 1650.00
DELTA = 22°43'24"
D = 3°28'21"
L = 654.38
T = 331.55
E = 32.98
BK = S 64°39'36" E
AH = S 87°23'00" E

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	ALIGNMENT PLAN	SHEET	E

2

POINT OF BEGINNING : TDSW
POB = 10TDSW+00.00
X = 808419.02
Y = 468497.39
BK = S 87°43'02.20" E

POINT OF ENDING : TDSW
POE = 22TDSW+61.67
X = 809666.25
Y = 468346.27
AH = S 65°02'06.48" E



CURVE : TDSW-1
PC = 10TDSW+00.00
X = 808419.02
Y = 468497.39
PI = 11TDSW+66.19
X = 808585.08
Y = 468490.77
PT = 13TDSW+32.28
X = 808750.45
Y = 468474.38

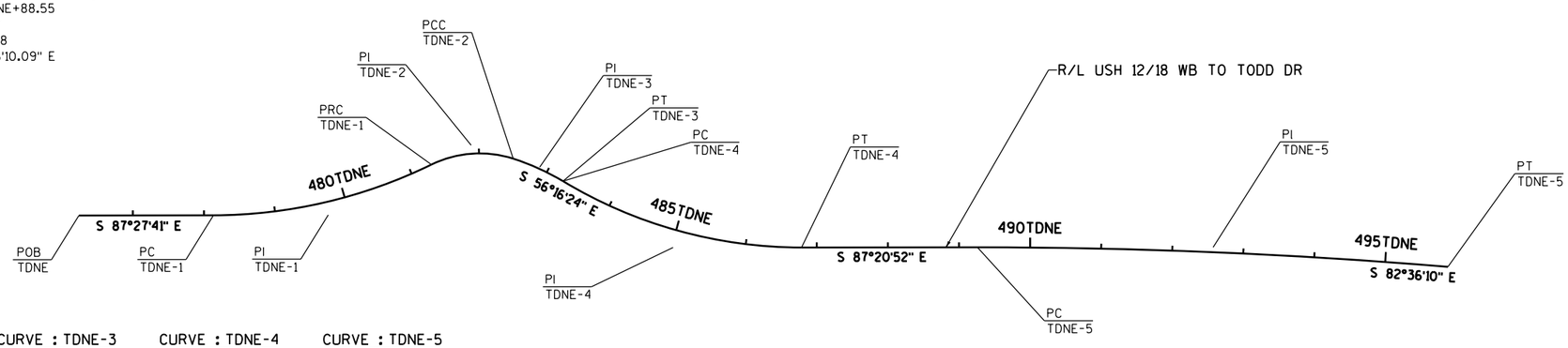
R = 5635.00
DELTA = 3°22'42.71"
D = 1°01'00.42"
L = 332.28
T = 166.19
E = 2.45
BK = S 87°43'02.20" E
AH = S 84°20'19.49" E

CURVE : TDSW-2
PC = 21TDSW+03.43
X = 809517.85
Y = 468398.31
PI = 21TDSW+50.20
X = 809564.39
Y = 468393.69
PT = 21TDSW+96.08
X = 809606.79
Y = 468373.95

R = 275.00
DELTA = 19°18'13.01"
D = 20°50'05.38"
L = 92.65
T = 46.77
E = 3.95
BK = S 84°20'19.49" E
AH = S 65°02'06.48" E

POINT OF BEGINNING : TDNE
POB = 476TDNE+24.12
X = 811205.48
Y = 468581.91
BK = S 87°27'40.76" E

POINT OF ENDING : TDNE
POE = 495TDNE+88.55
X = 813125.67
Y = 468420.38
AH = S 82°36'10.09" E



CURVE : TDNE-1
PC = 478TDNE+13.17
X = 811394.35
Y = 468573.54
PI = 479TDNE+74.66
X = 811555.68
Y = 468566.39
PRC = 481TDNE+30.62
X = 811703.92
Y = 468630.45

R = 702.00
DELTA = 25°54'35.81"
D = 8°09'42.45"
L = 317.45
T = 161.49
E = 18.34
BK = S 87°27'40.76" E
AH = N 66°37'43.43" E

CURVE : TDNE-2
PRC = 481TDNE+30.62
X = 811703.92
Y = 468630.45
PI = 481TDNE+92.81
X = 811761.00
Y = 468655.11
PCC = 482TDNE+48.90
X = 811819.31
Y = 468633.49

R = 155.00
DELTA = 43°43'13.64"
D = 36°57'54.07"
L = 118.28
T = 62.18
E = 12.01
BK = N 66°37'43.43" E
AH = S 69°39'02.93" E

CURVE : TDNE-3
PCC = 482TDNE+48.90
X = 811819.31
Y = 468633.49
PI = 482TDNE+87.60
X = 811855.59
Y = 468620.03
PT = 483TDNE+25.95
X = 811887.78
Y = 468598.54

R = 330.00
DELTA = 13°22'38.99"
D = 17°21'44.49"
L = 77.05
T = 38.70
E = 2.26
BK = S 69°39'02.93" E
AH = S 56°16'23.94" E

CURVE : TDNE-4
PC = 483TDNE+25.95
X = 811887.78
Y = 468598.54
PI = 485TDNE+06.67
X = 812038.08
Y = 468498.21
PT = 486TDNE+78.48
X = 812218.60
Y = 468489.84

R = 650.00
DELTA = 31°04'27.98"
D = 8°48'53.05"
L = 352.53
T = 180.72
E = 24.65
BK = S 56°16'23.98" E
AH = S 87°20'51.95" E

CURVE : TDNE-5
PC = 489TDNE+26.02
X = 812465.88
Y = 468478.39
PI = 492TDNE+57.47
X = 812796.98
Y = 468463.05
PT = 495TDNE+88.55
X = 813125.67
Y = 468420.38

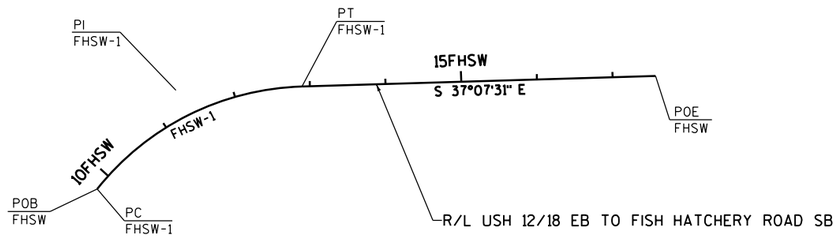
R = 8000.00
DELTA = 4°44'41.86"
D = 0°42'58.31"
L = 662.52
T = 331.45
E = 6.86
BK = S 87°20'51.95" E
AH = S 82°36'10.09" E

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	ALIGNMENT PLAN	SHEET	E

2

POINT OF BEGINNING : FHSW
POB = 9FHSW+77.62
X = 814307.05
Y = 468262.06
BK = S 86°46'40" E

POINT OF ENDING : FHSW
POE = 17FHSW+56.74
X = 814855.80
Y = 467747.44
AH = S 37°07'31" E

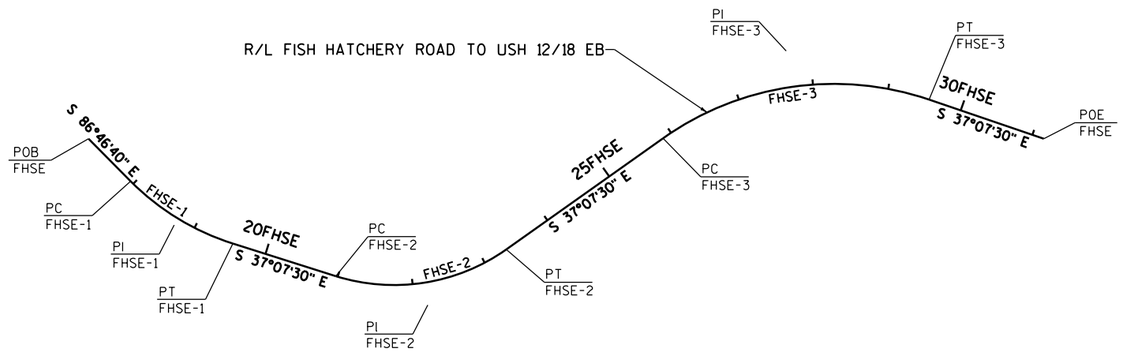


CURVE : FHSW-1
PC = 9FHSW+77.62
X = 814307.05
Y = 468262.06
PI = 11FHSW+44.16
X = 814473.33
Y = 468252.70
PT = 12FHSW+89.59
X = 814573.85
Y = 468119.91

R = 360.00
DELTA = 49°39'10"
D = 15°54'56"
L = 311.98
T = 166.54
E = 36.66
BK = S 86°46'40" E
AH = S 37°07'31" E

POINT OF BEGINNING : FHSE
POB = 17FHSE+16.14
X = 814894.95
Y = 467762.63
BK = S 61°44'15" E

POINT OF ENDING : FHSE
POE = 31FHSE+15.77
X = 815941.50
Y = 468136.38
AH = S 88°10'03" E



CURVE : FHSE-1
PC = 17FHSE+95.07
X = 814964.47
Y = 467725.26
PI = 18FHSE+76.54
X = 815036.23
Y = 467686.68
PT = 19FHSE+54.82
X = 815117.70
Y = 467685.93

R = 330.00
DELTA = 27°44'13"
D = 17°21'45"
L = 159.75
T = 81.47
E = 9.91
BK = S 61°44'17" E
AH = S 89°28'30" E

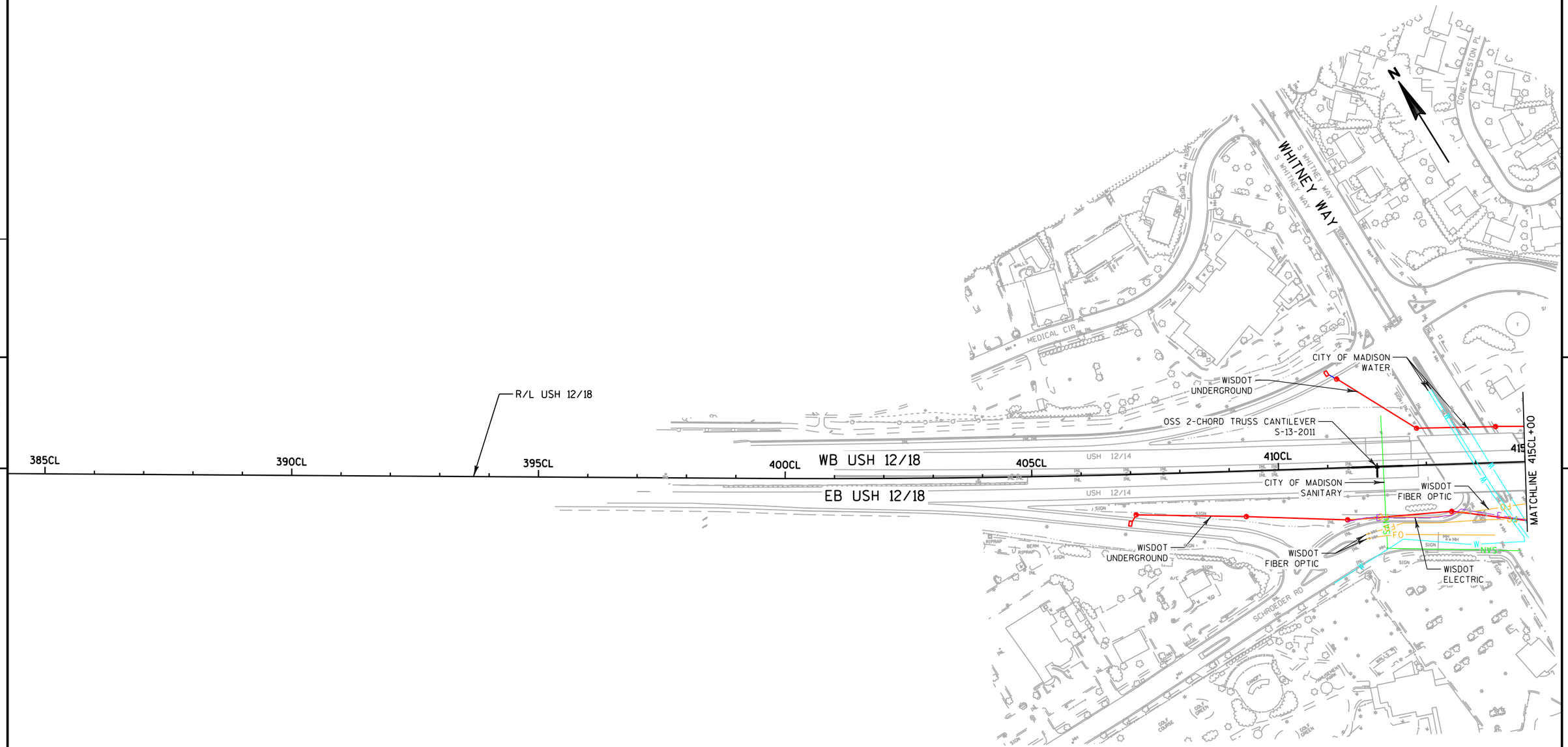
CURVE : FHSE-1
PC = 20FHSE+97.44
X = 815260.31
Y = 467684.62
PI = 22FHSE+24.64
X = 815387.51
Y = 467683.46
PT = 23FHSE+33.55
X = 815465.26
Y = 467784.13

R = 256.00
DELTA = 52°50'44"
D = 22°22'52"
L = 236.12
T = 127.21
E = 29.86
BK = S 89°28'30" E
AH = N 37°40'46" E

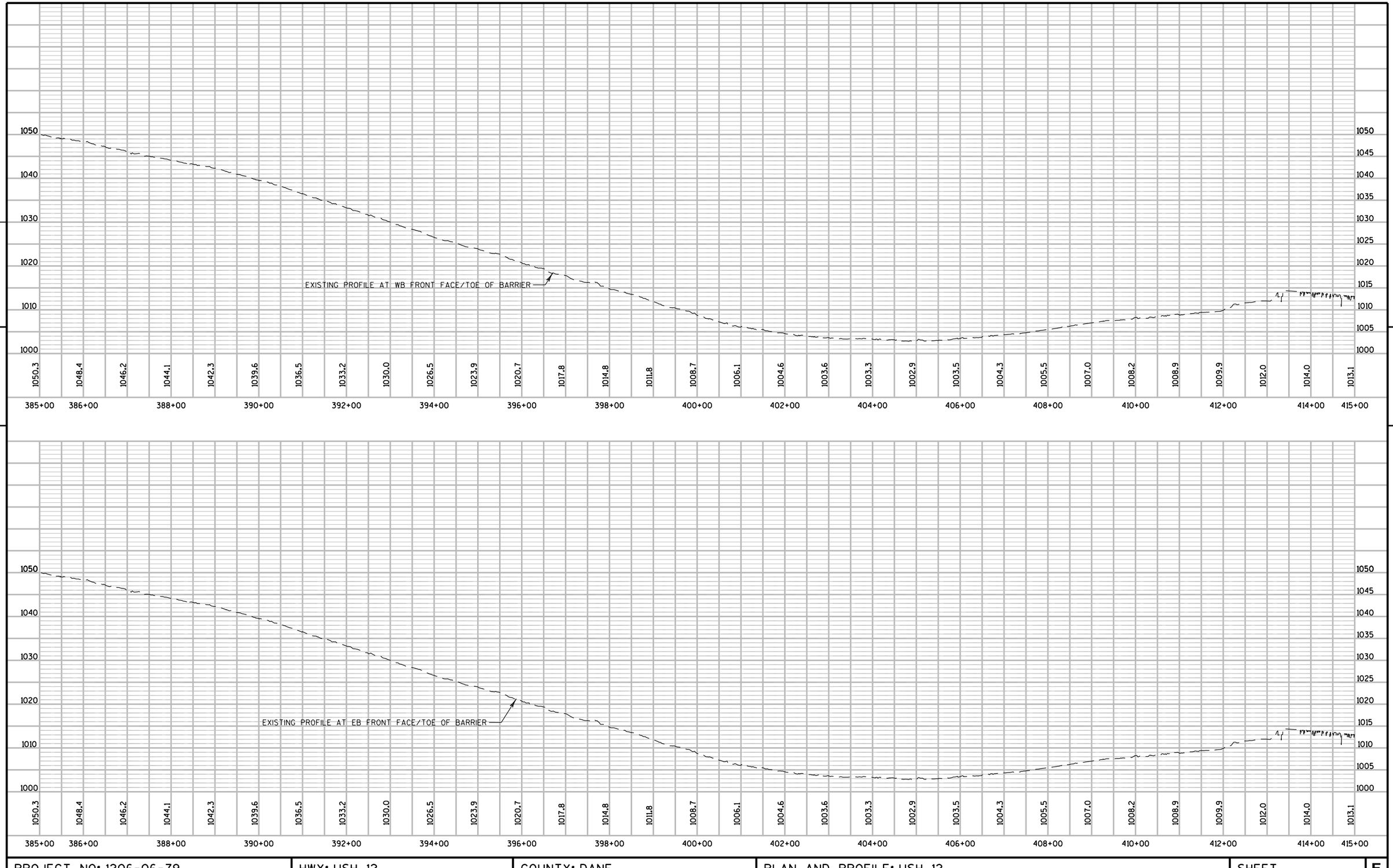
CURVE : FHSE-1
PC = 25FHSE+87.31
X = 815620.37
Y = 467984.96
PI = 27FHSE+86.68
X = 815742.23
Y = 468142.76
PT = 29FHSE+55.91
X = 815941.50
Y = 468136.38

R = 390.00
DELTA = 54°09'12"
D = 14°41'29"
L = 368.61
T = 199.37
E = 48.01
BK = N 37°40'46" E
AH = S 88°10'03" E

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	ALIGNMENT PLAN	SHEET	E



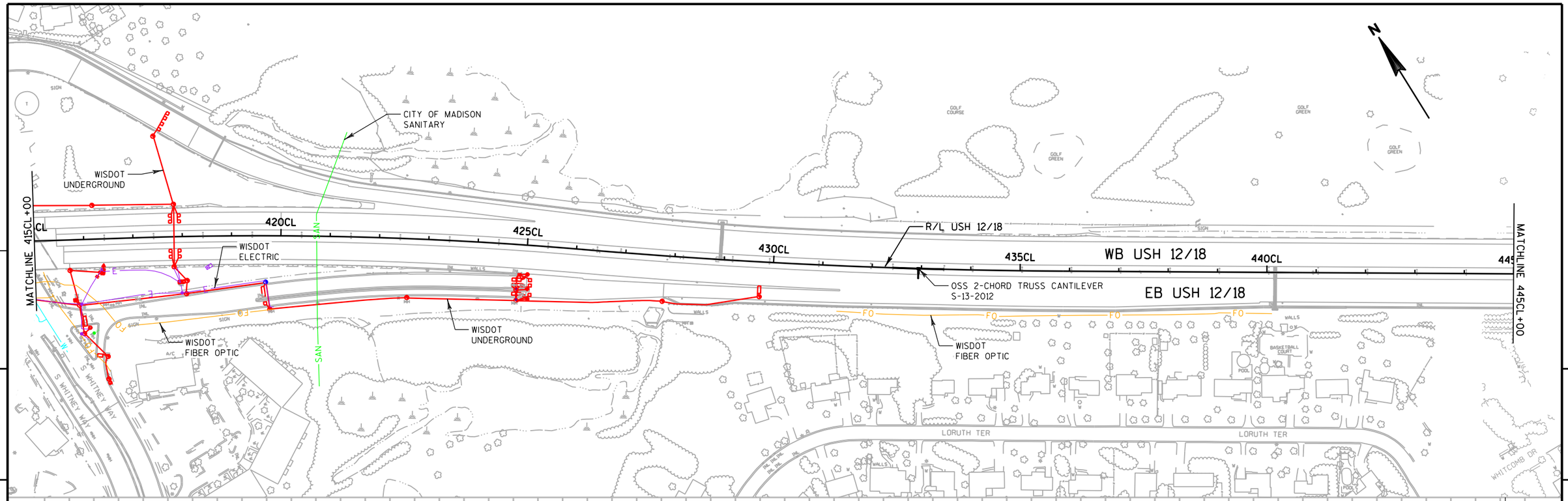
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E

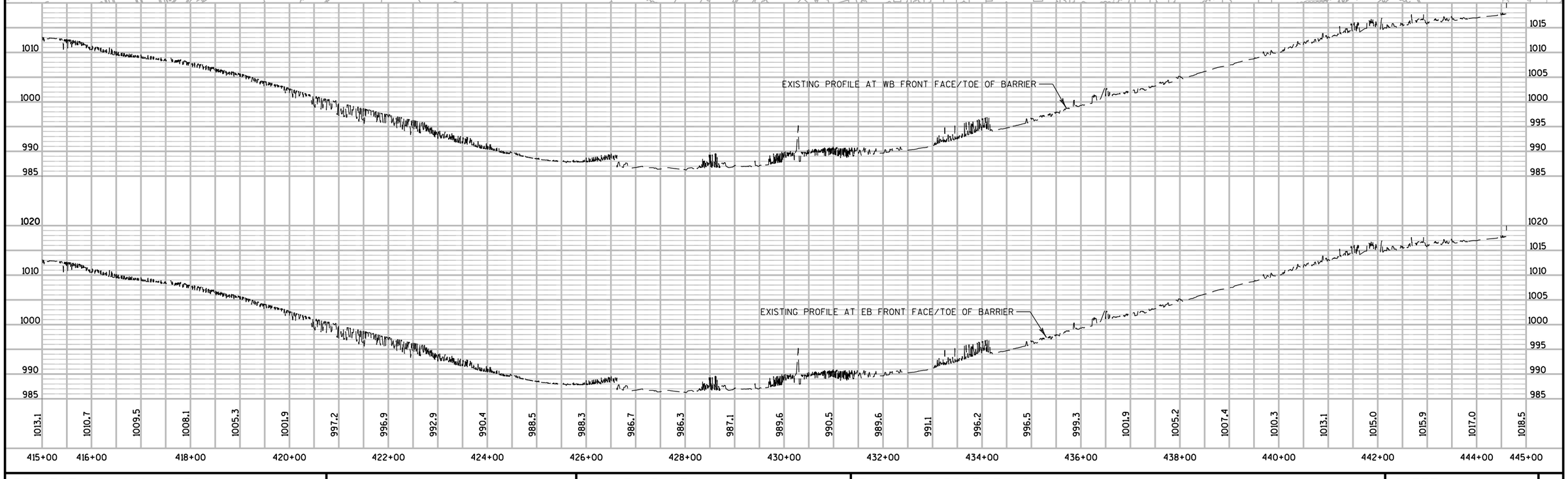


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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E

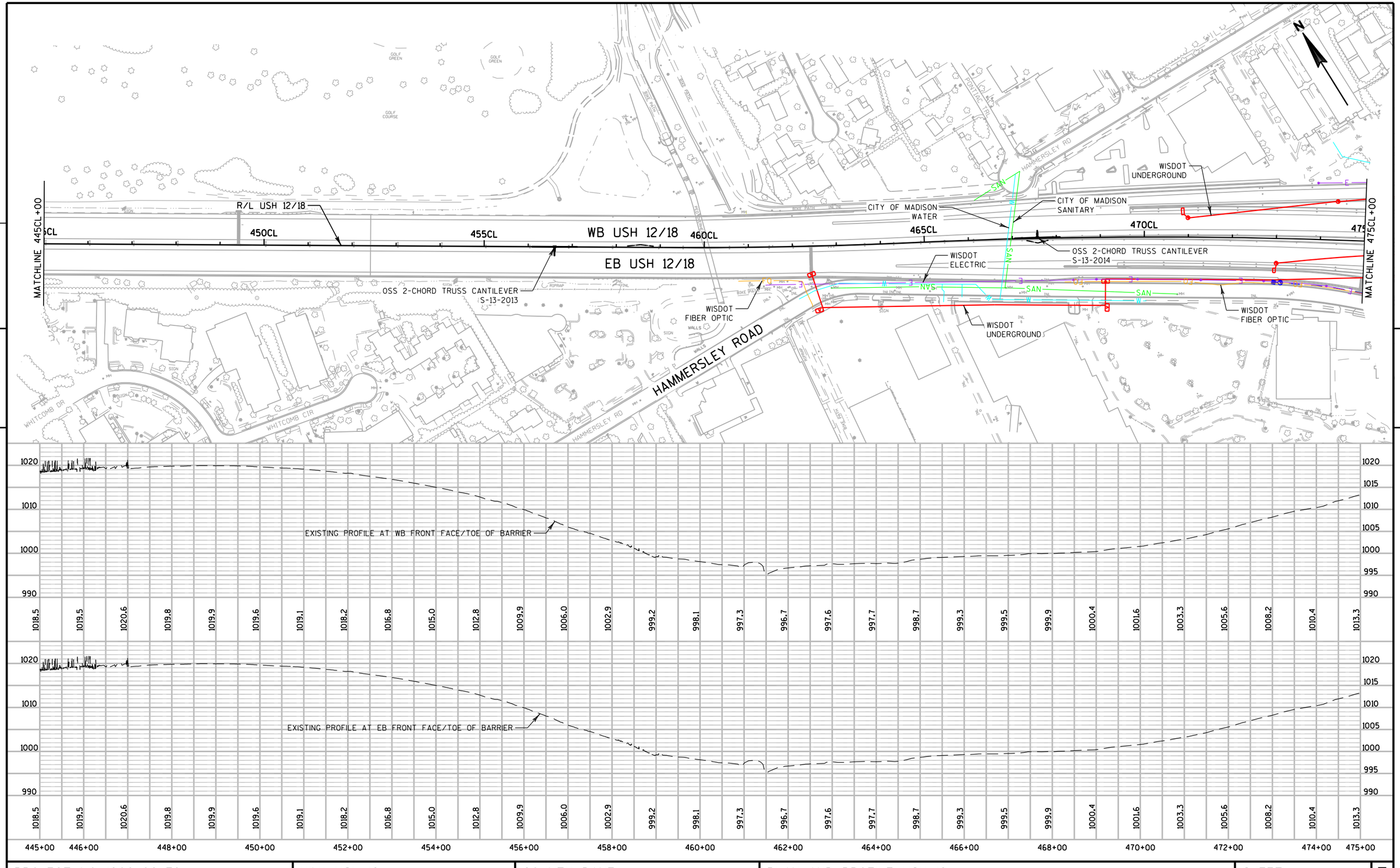




PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E

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WISDOT/CADDS SHEET 40

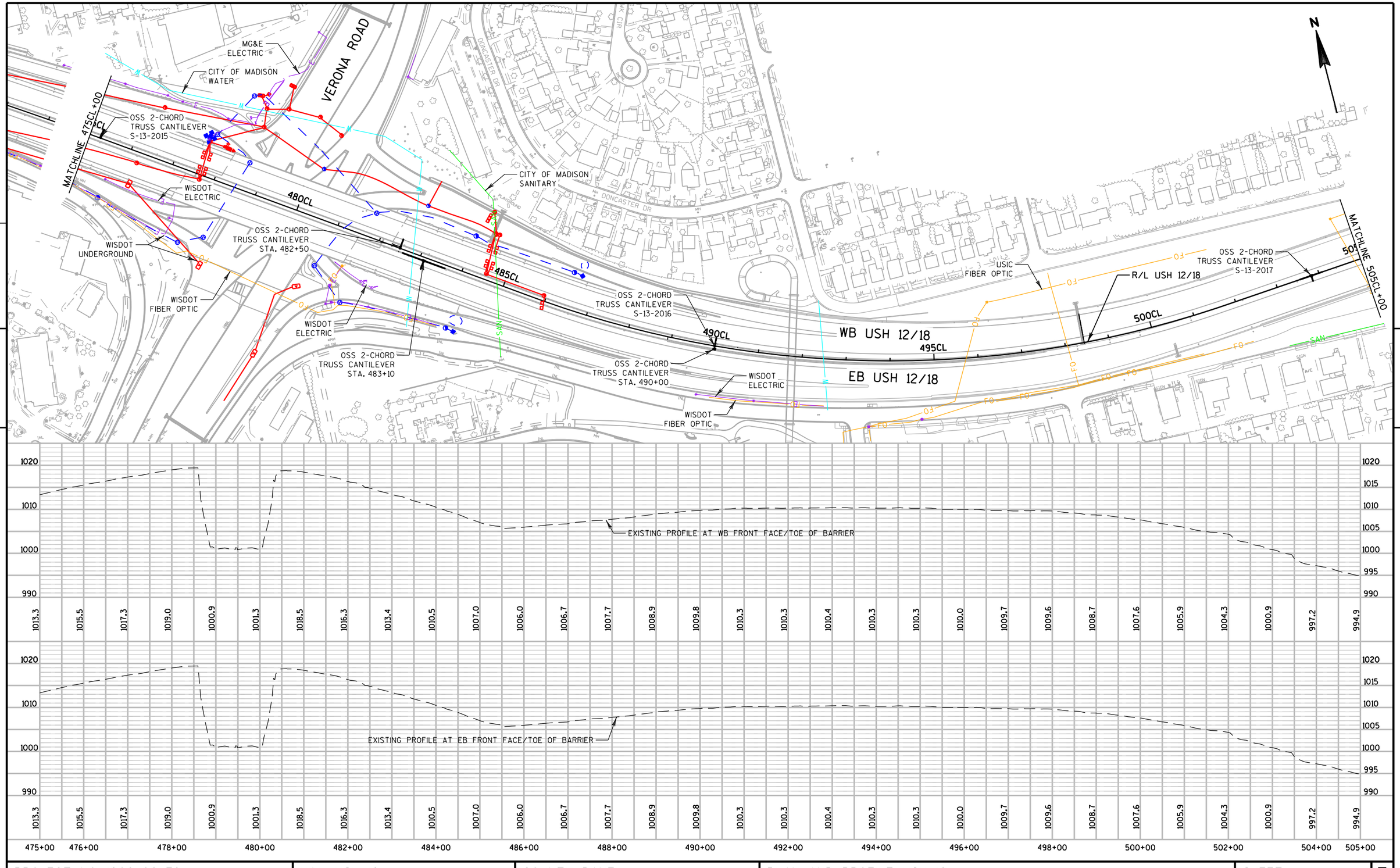


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5

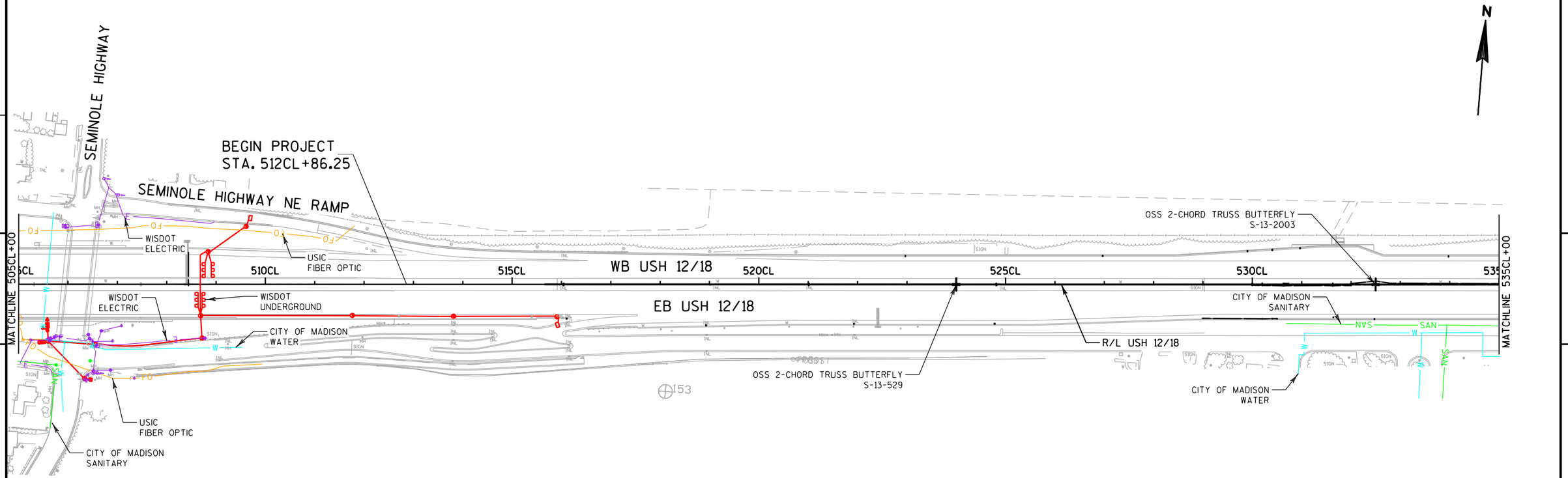
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E

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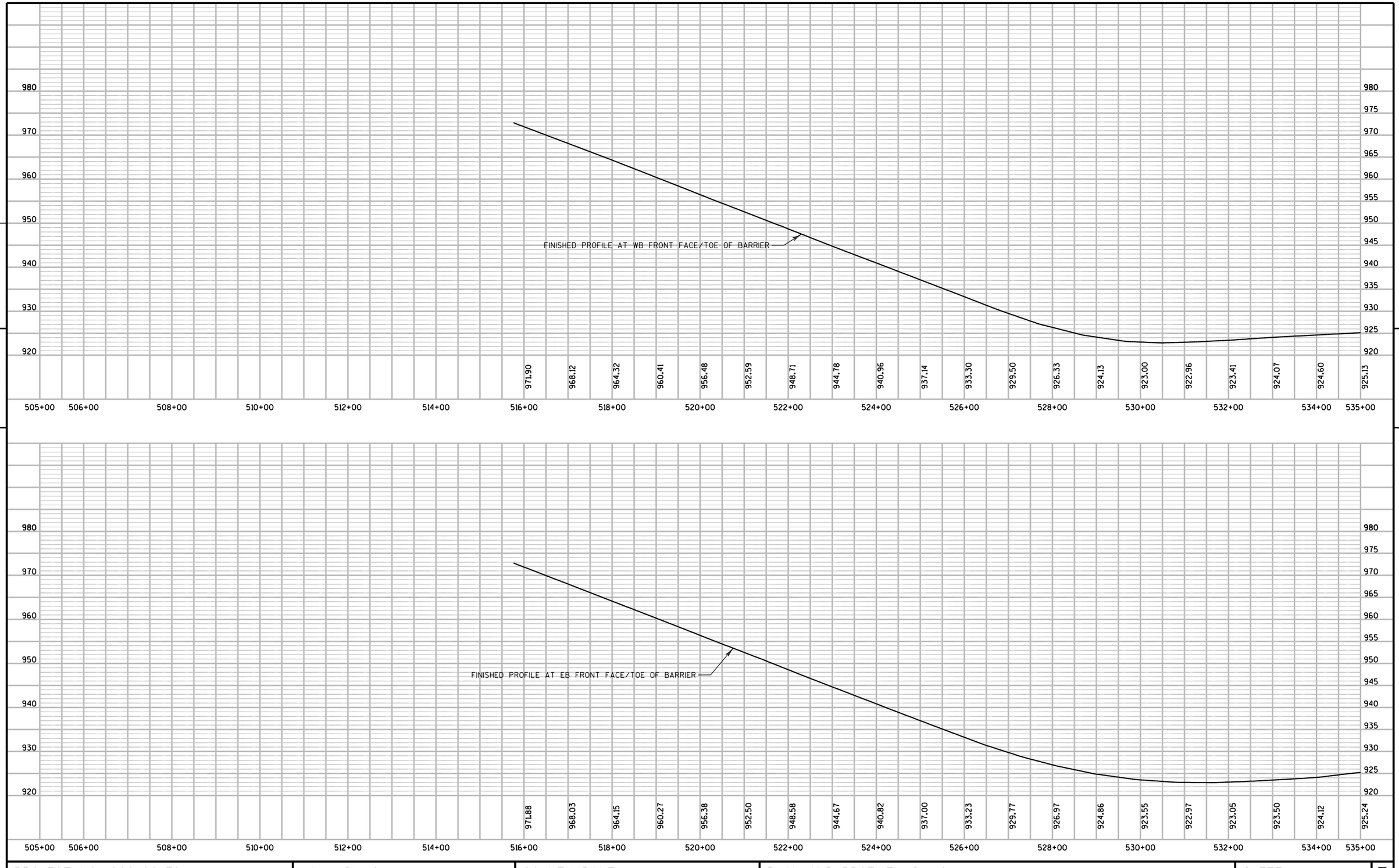
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E

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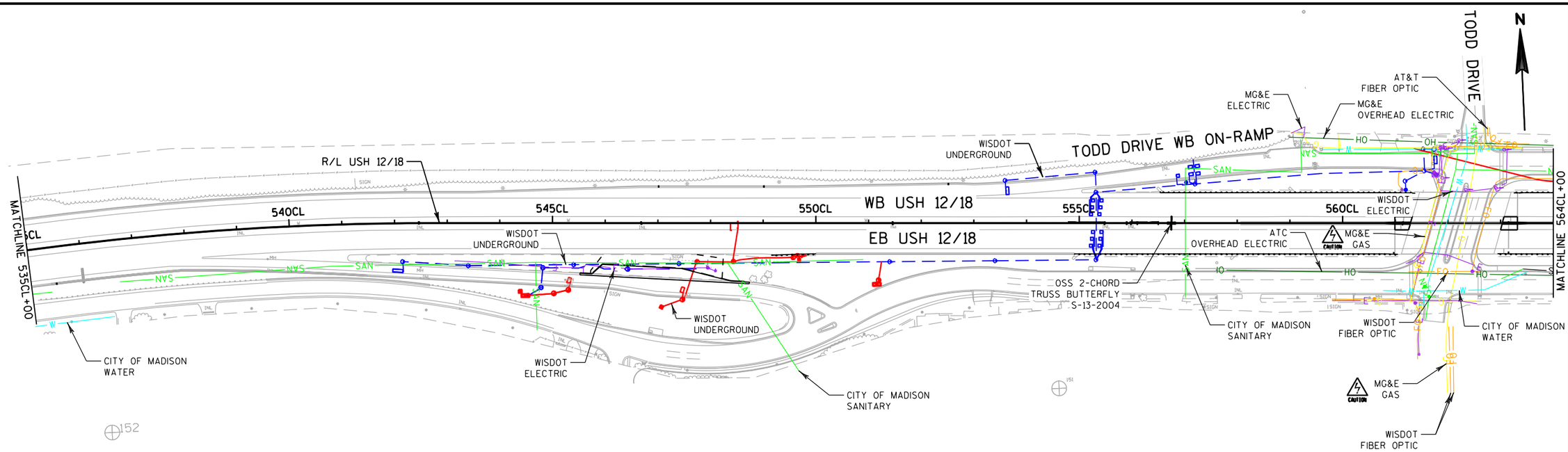
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E

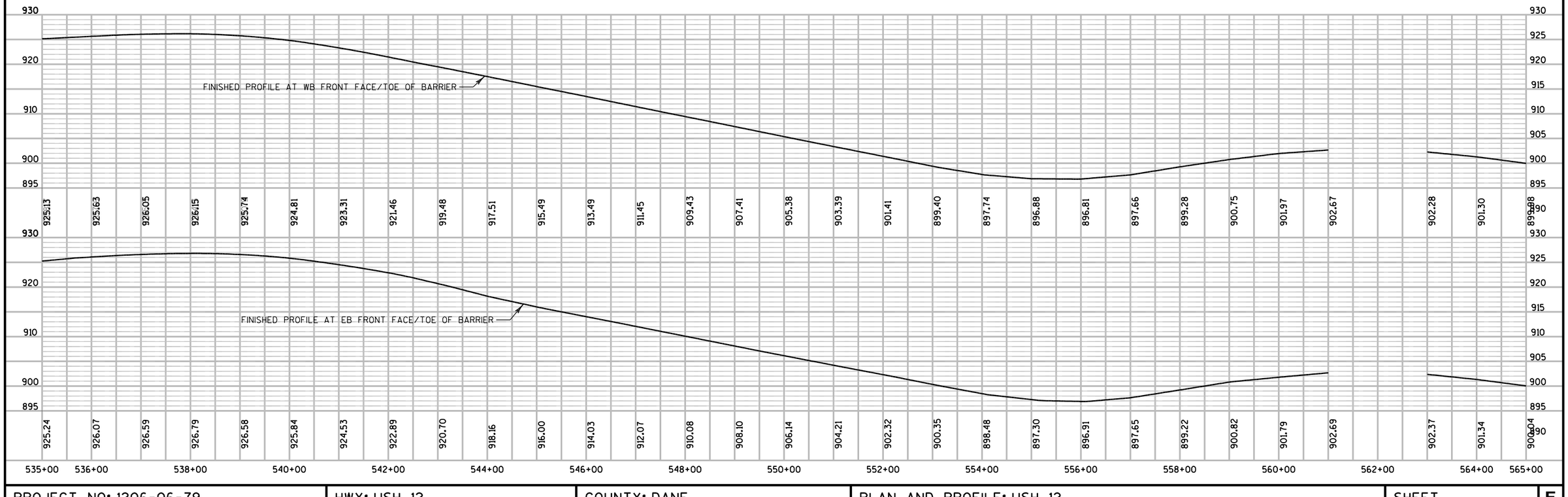
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E

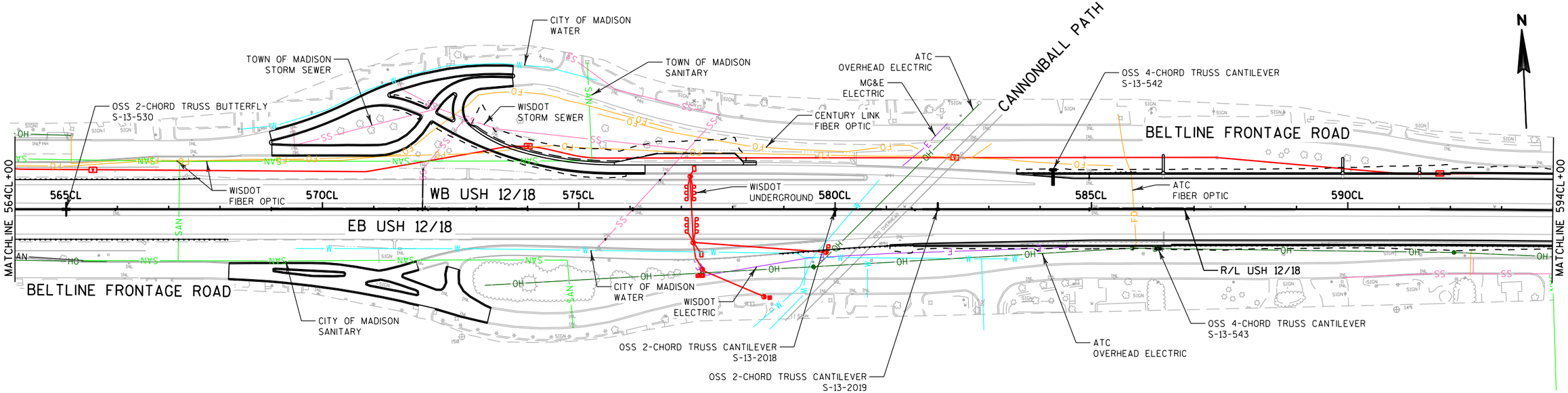
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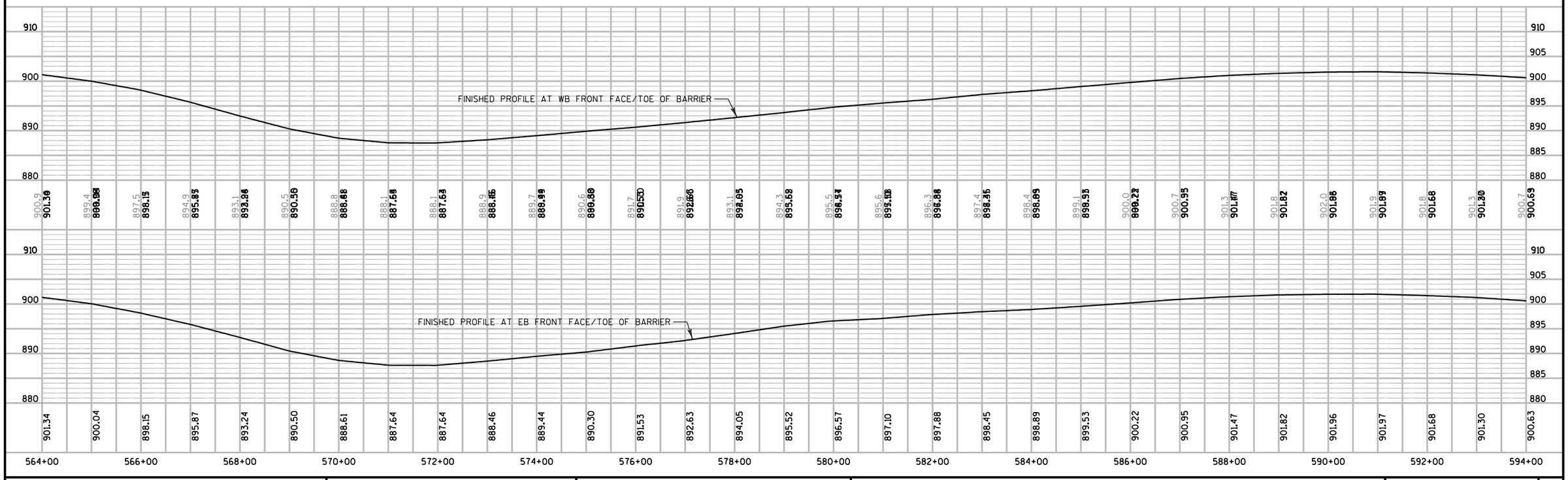




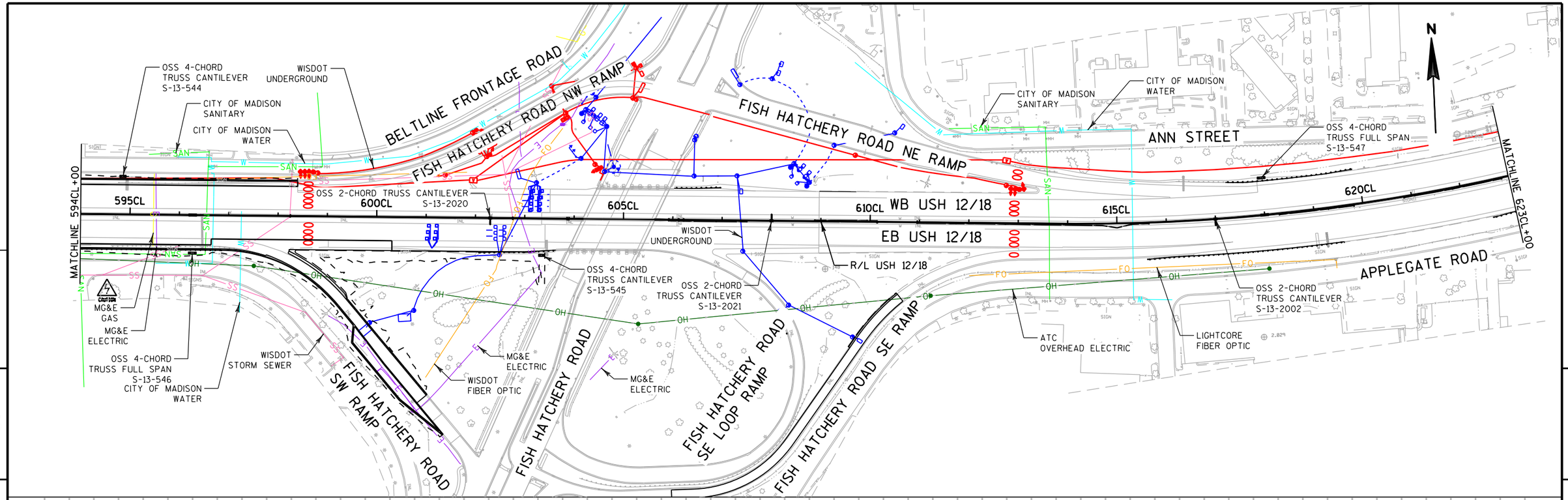
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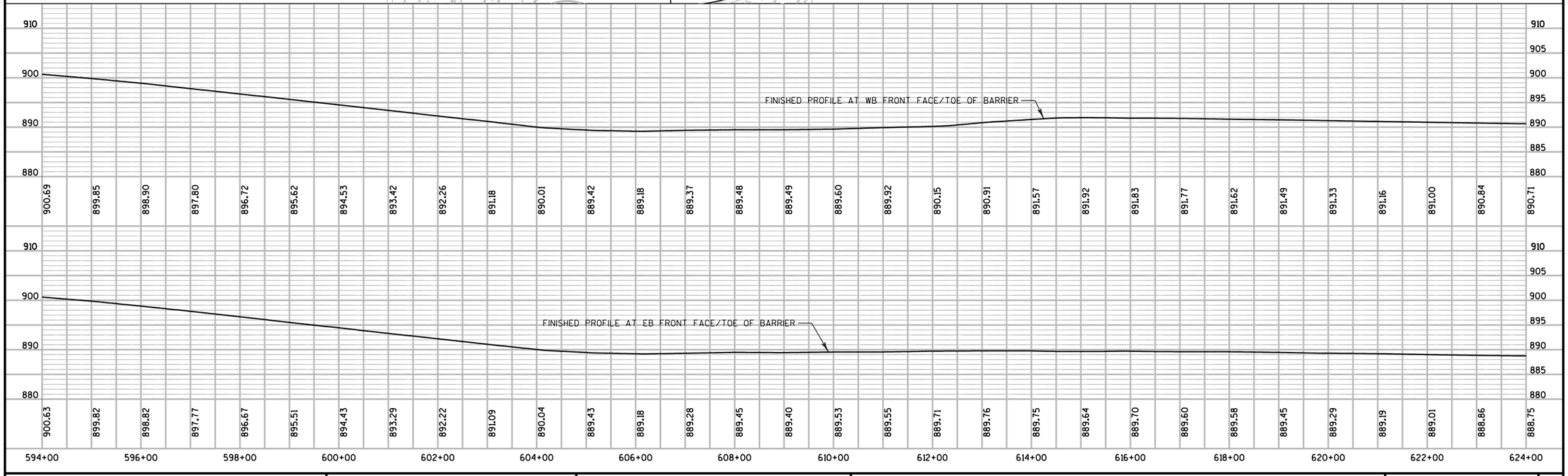
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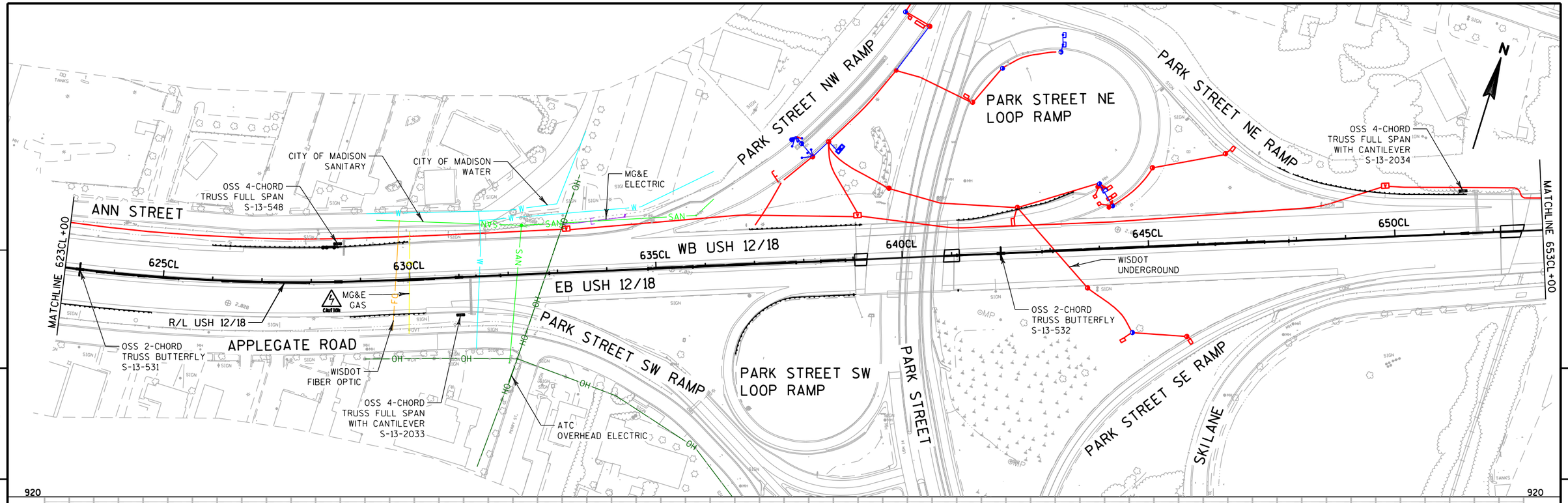


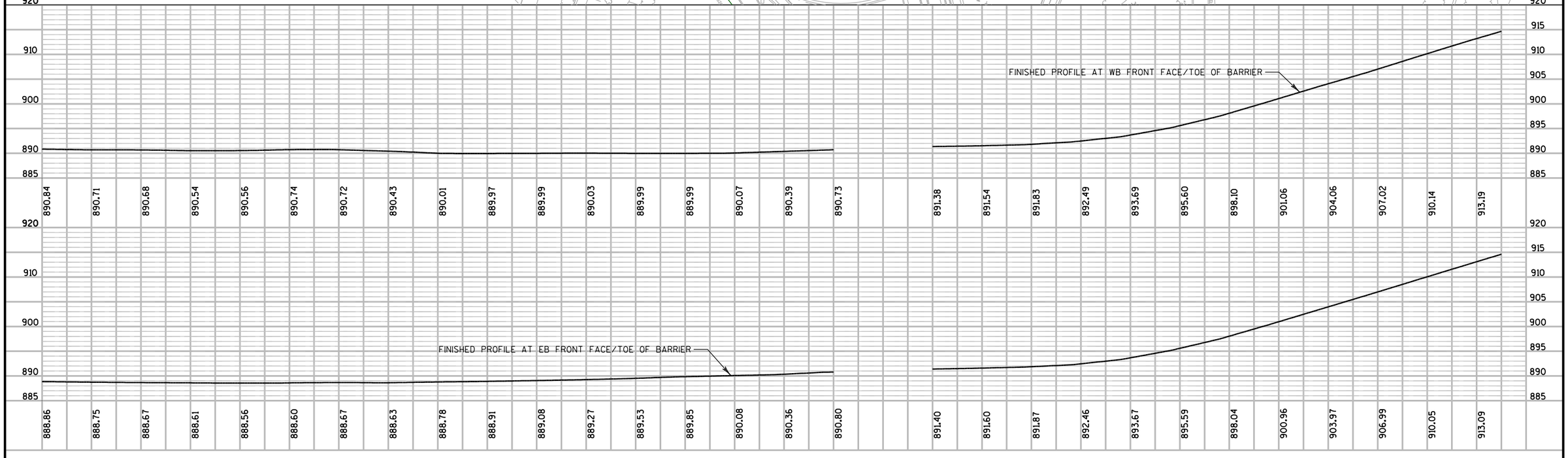
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E





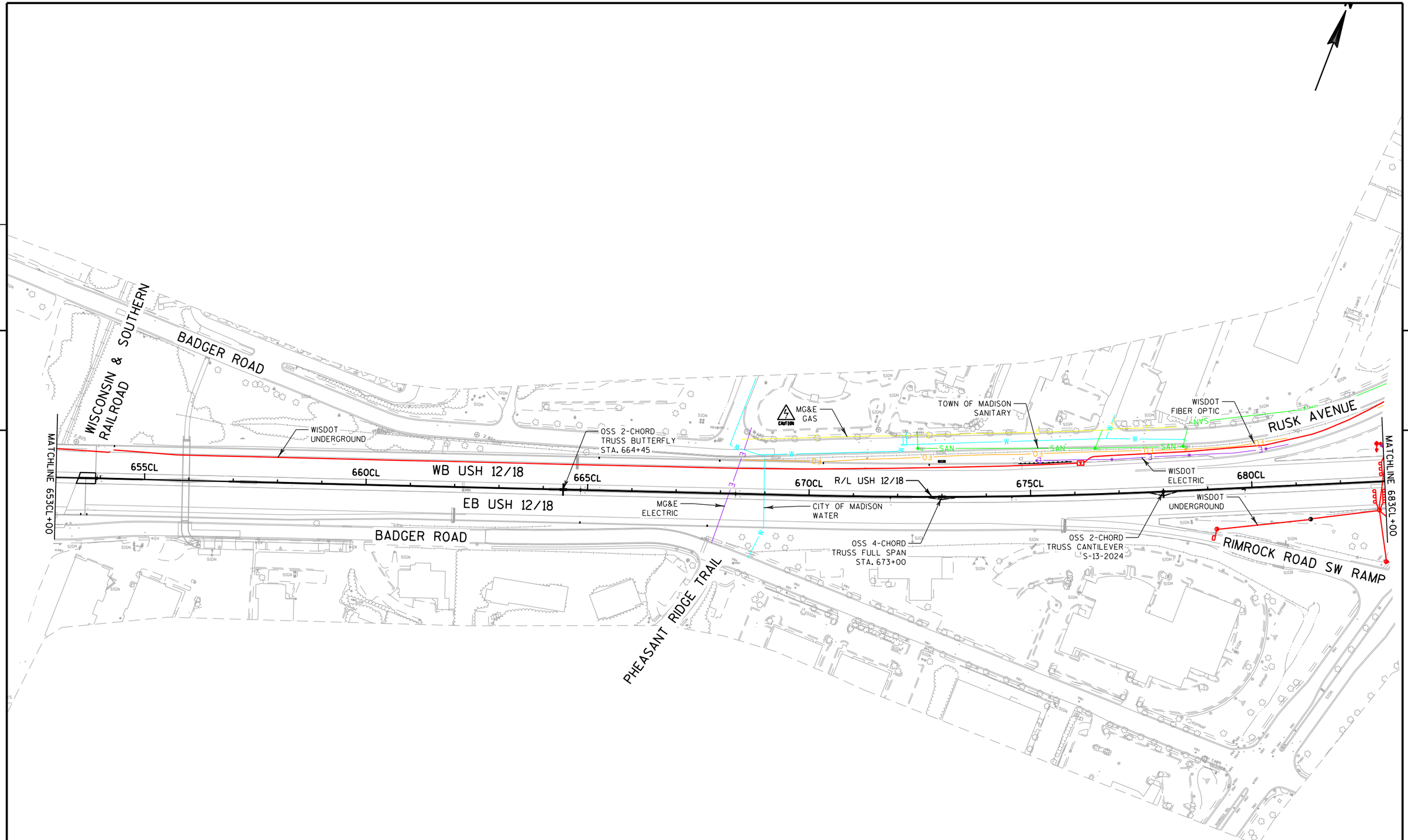
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E





PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E

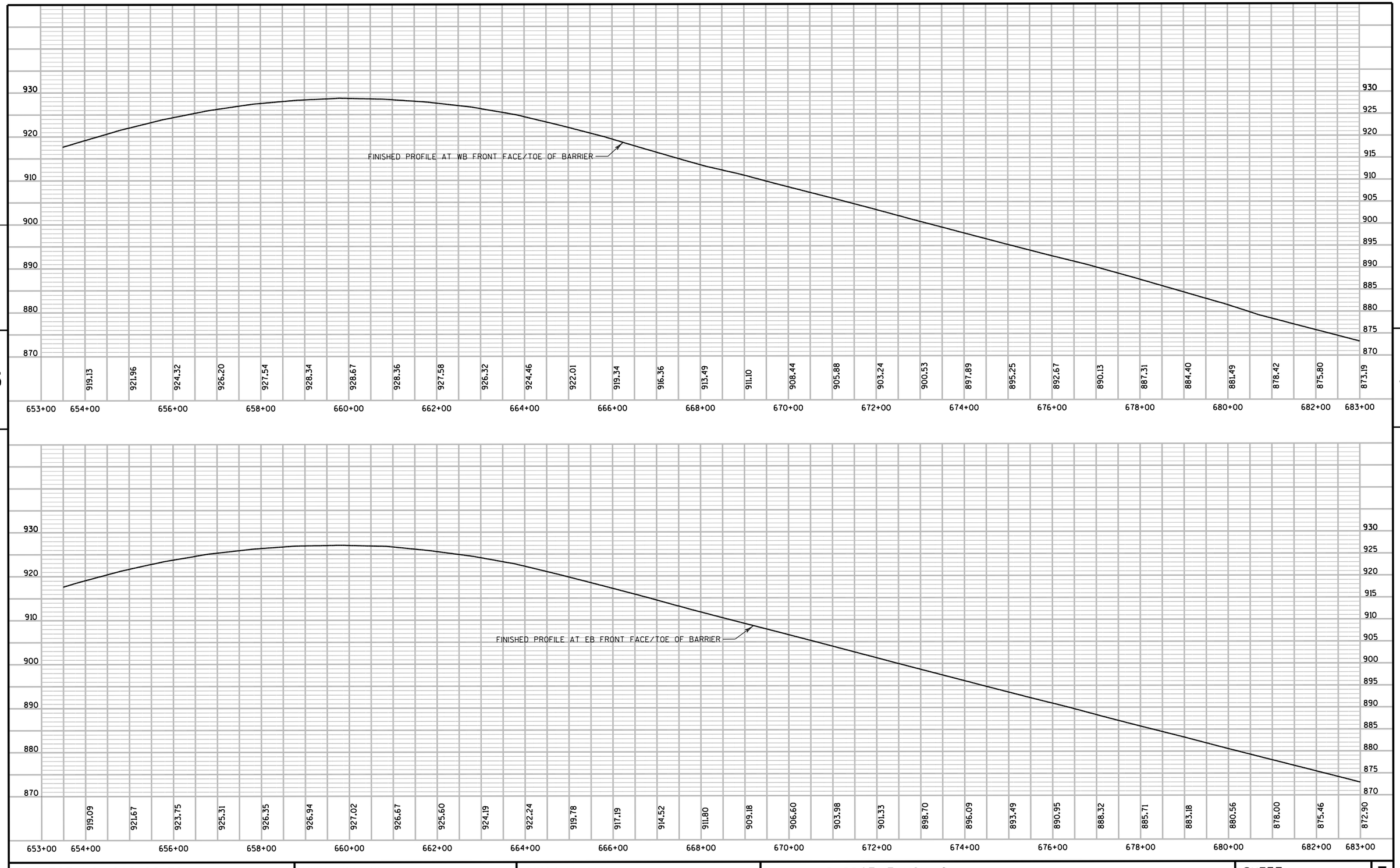
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E

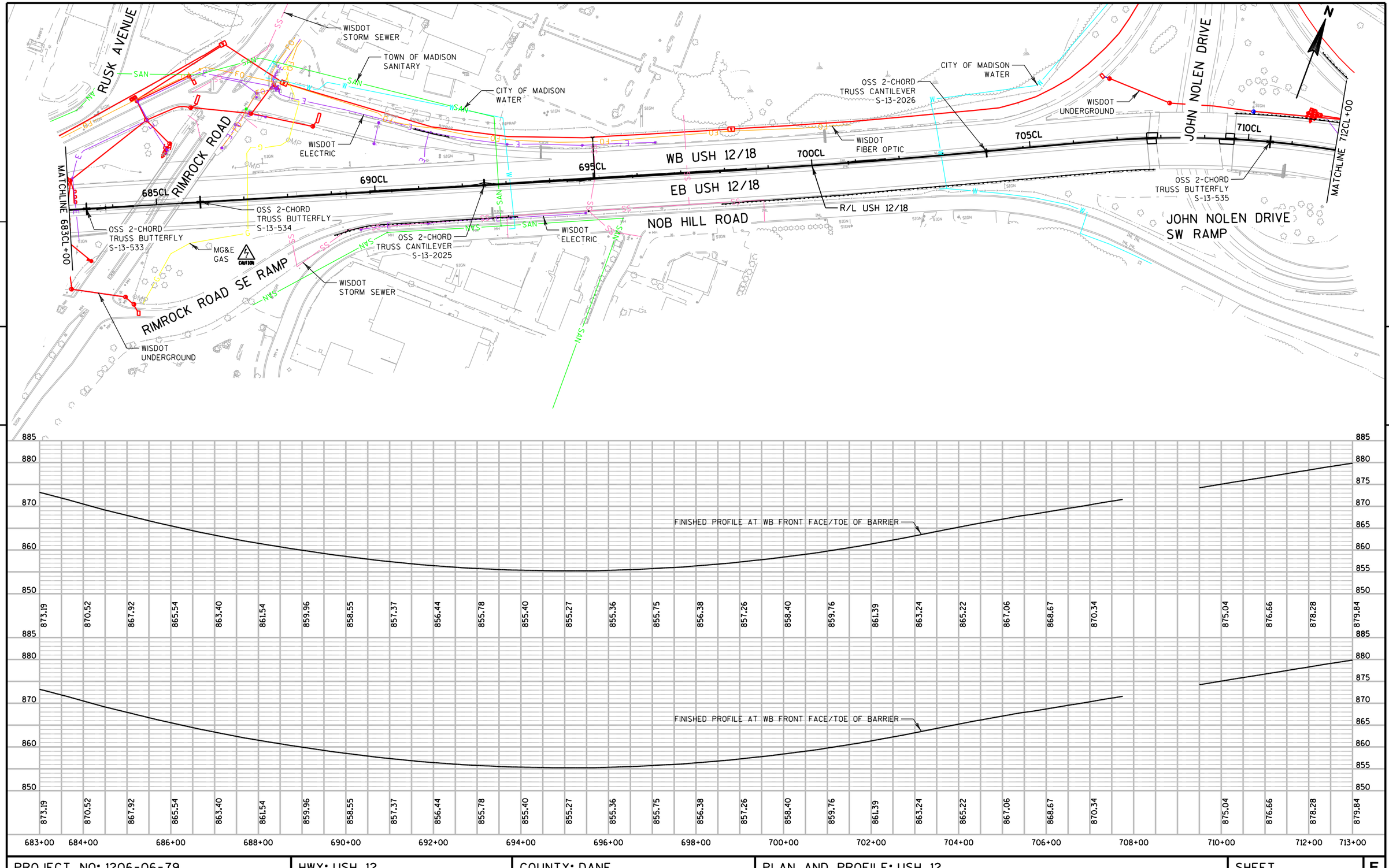
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WISDOT/CADDS SHEET 40



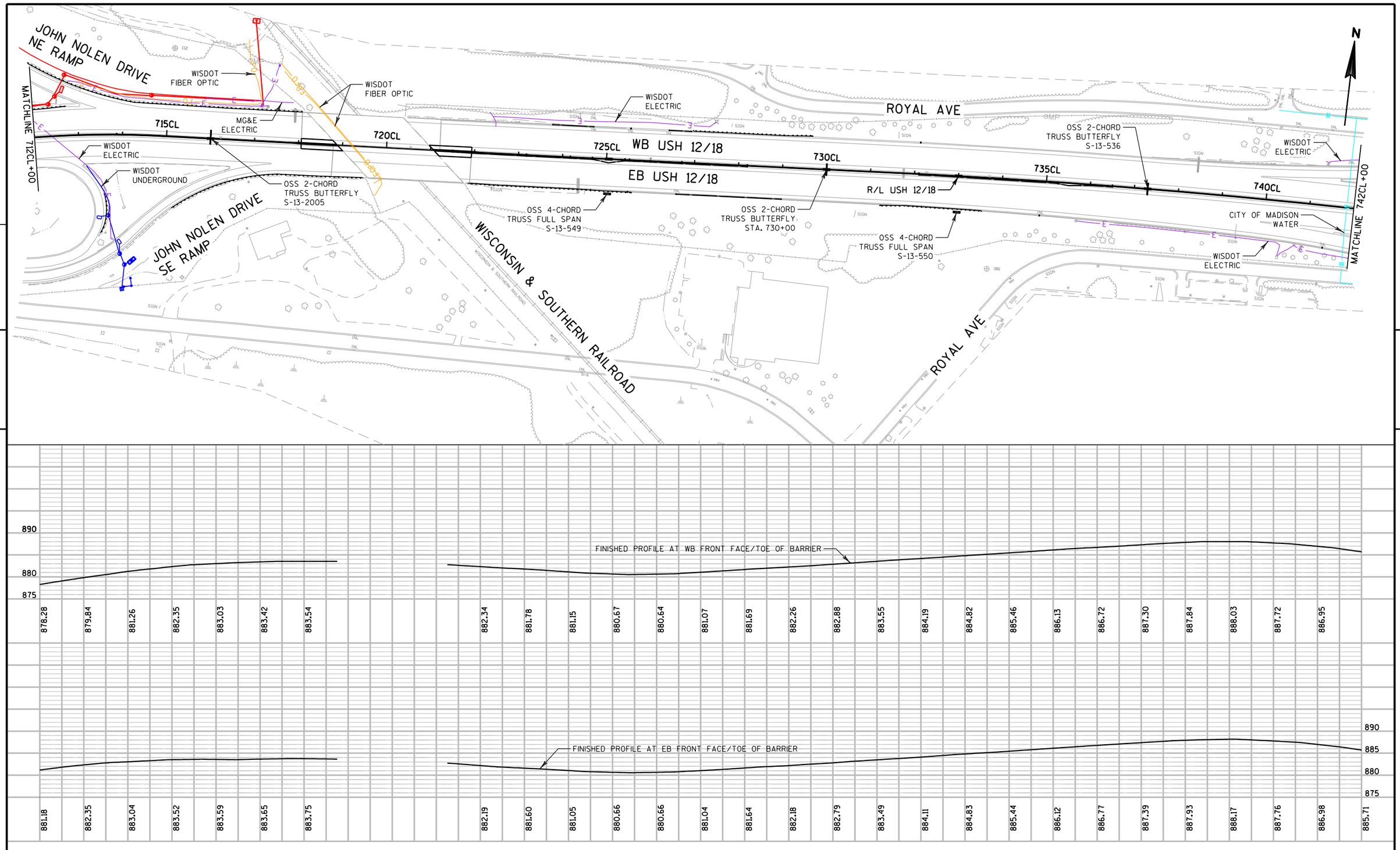
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E

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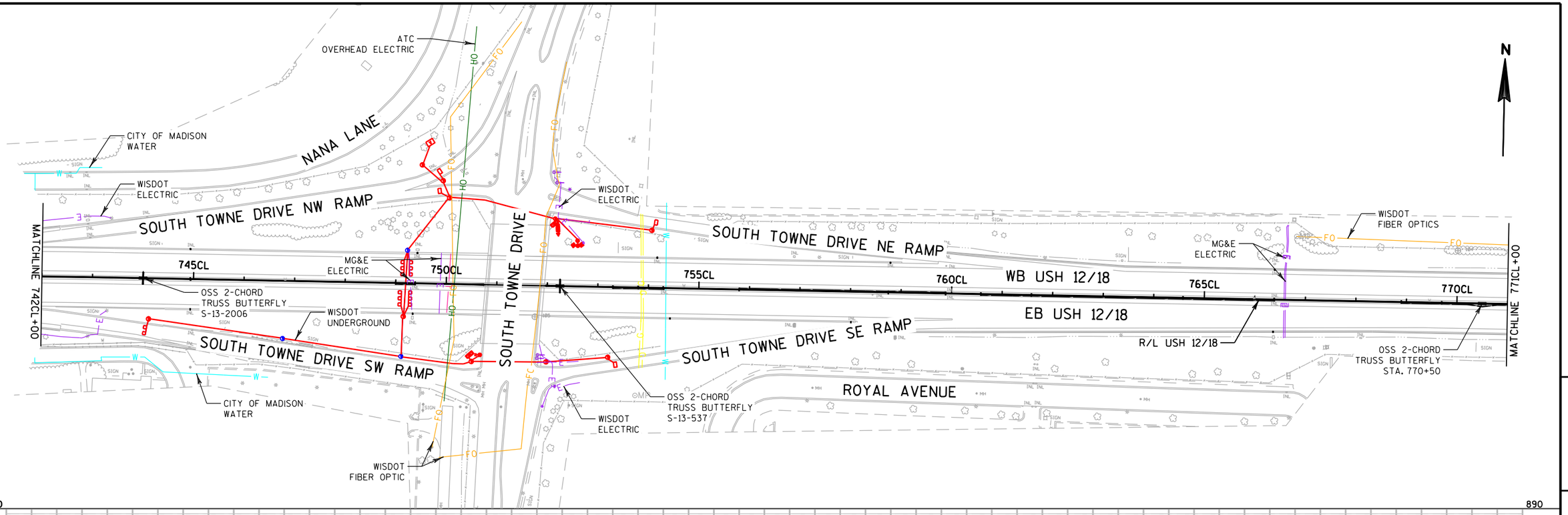
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E

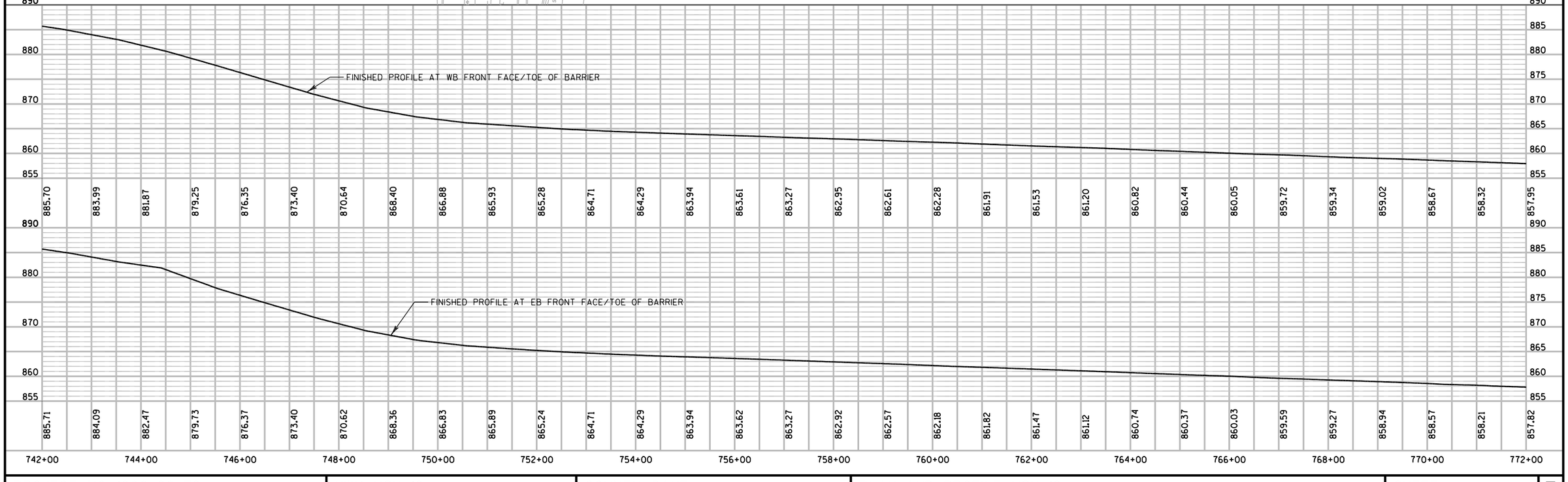
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PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E

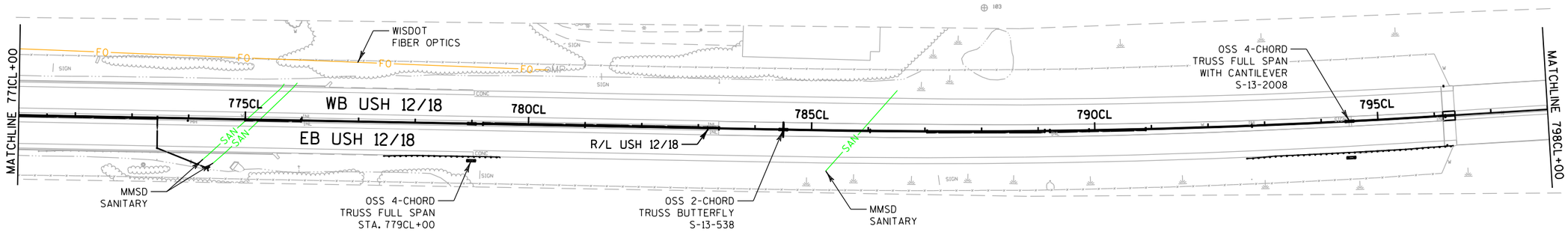
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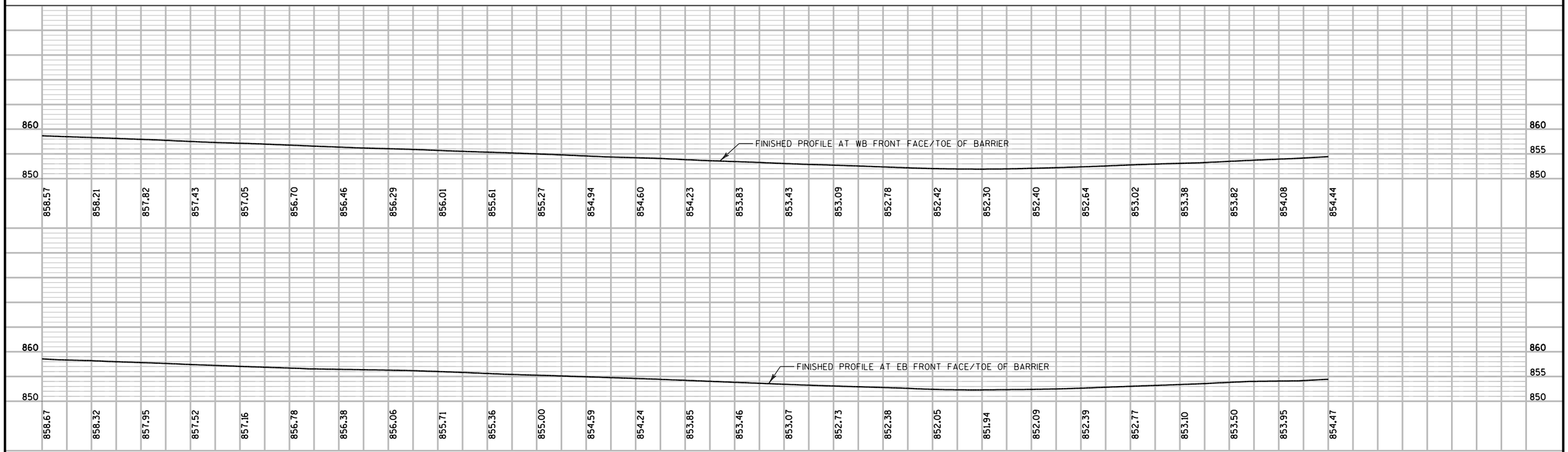




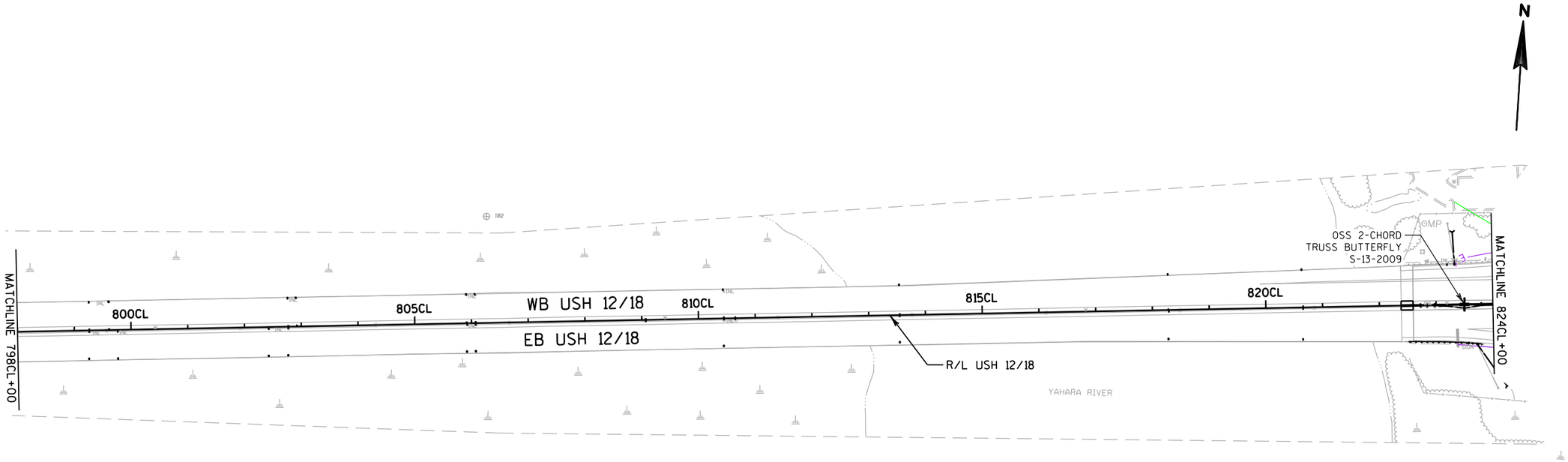
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E

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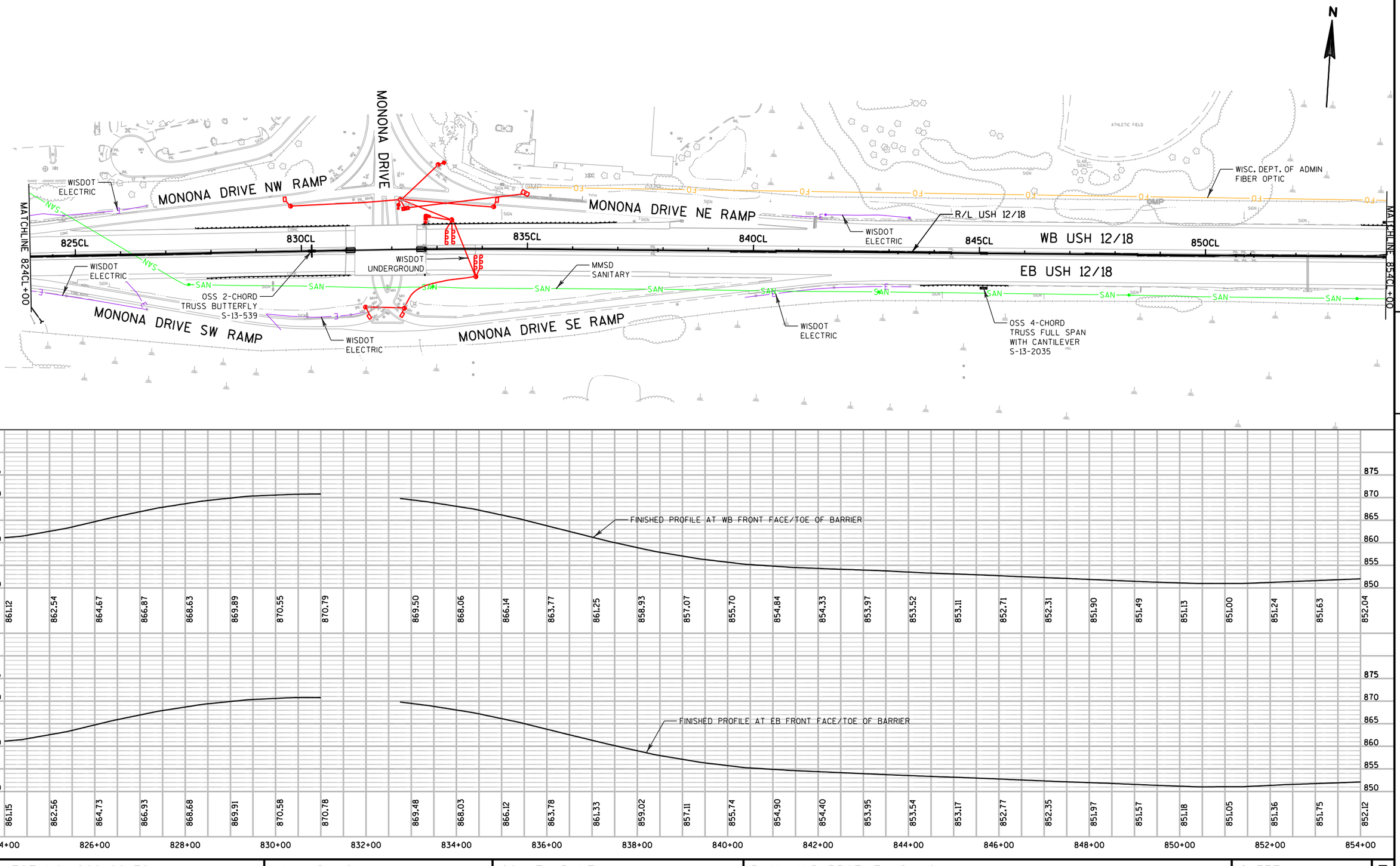


PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E

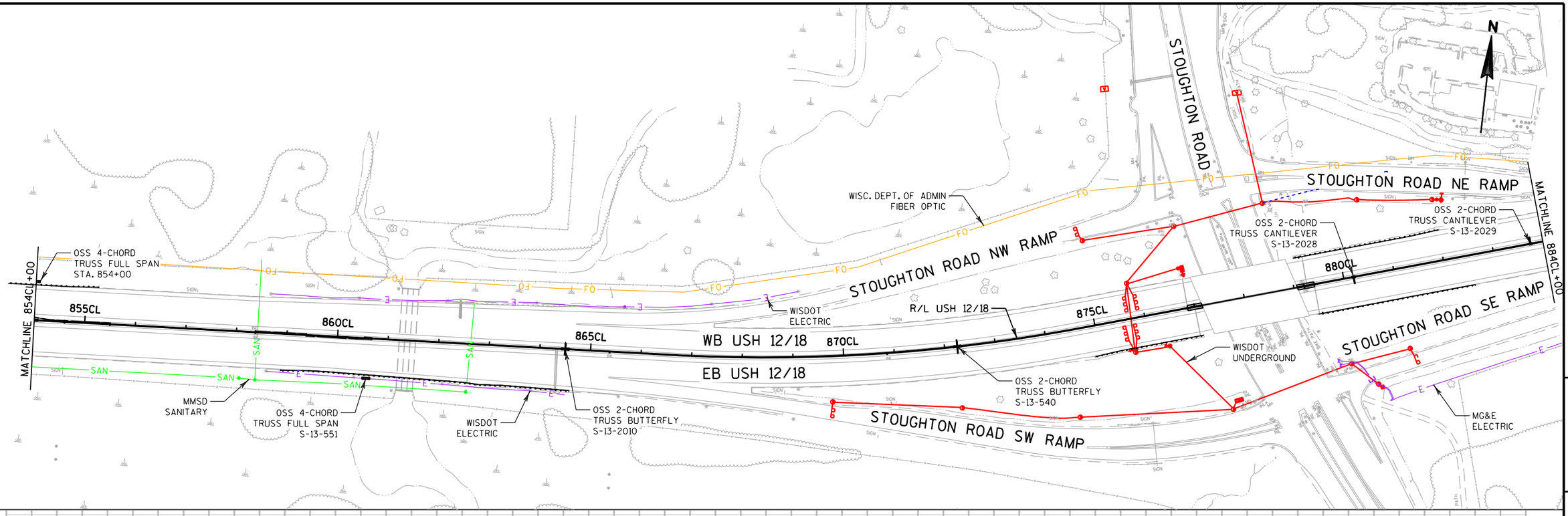


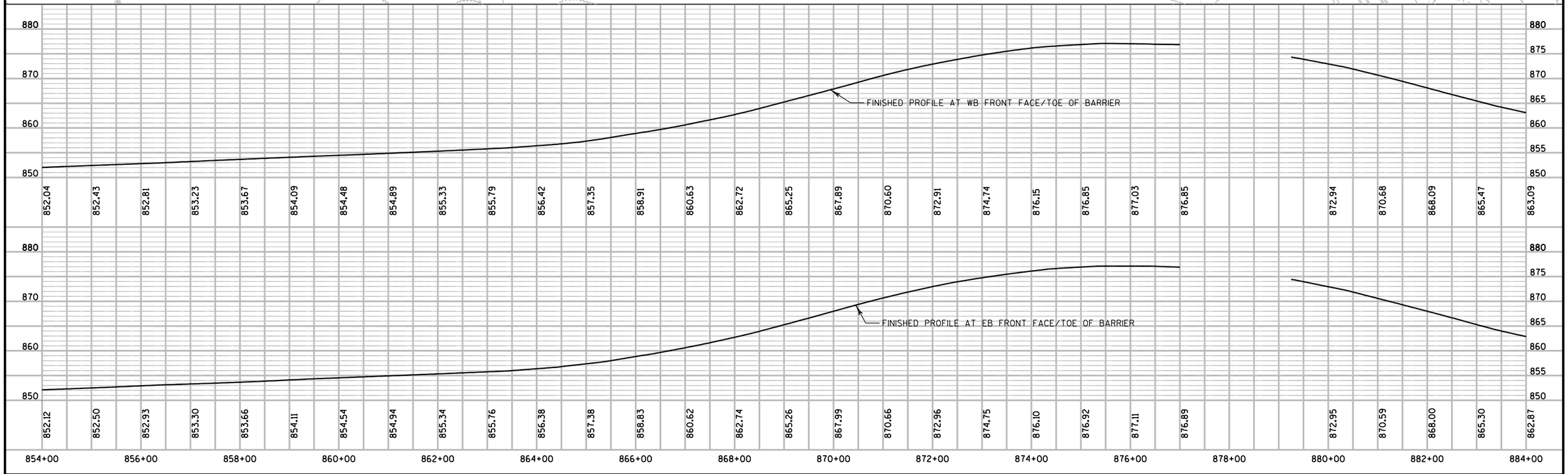
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E

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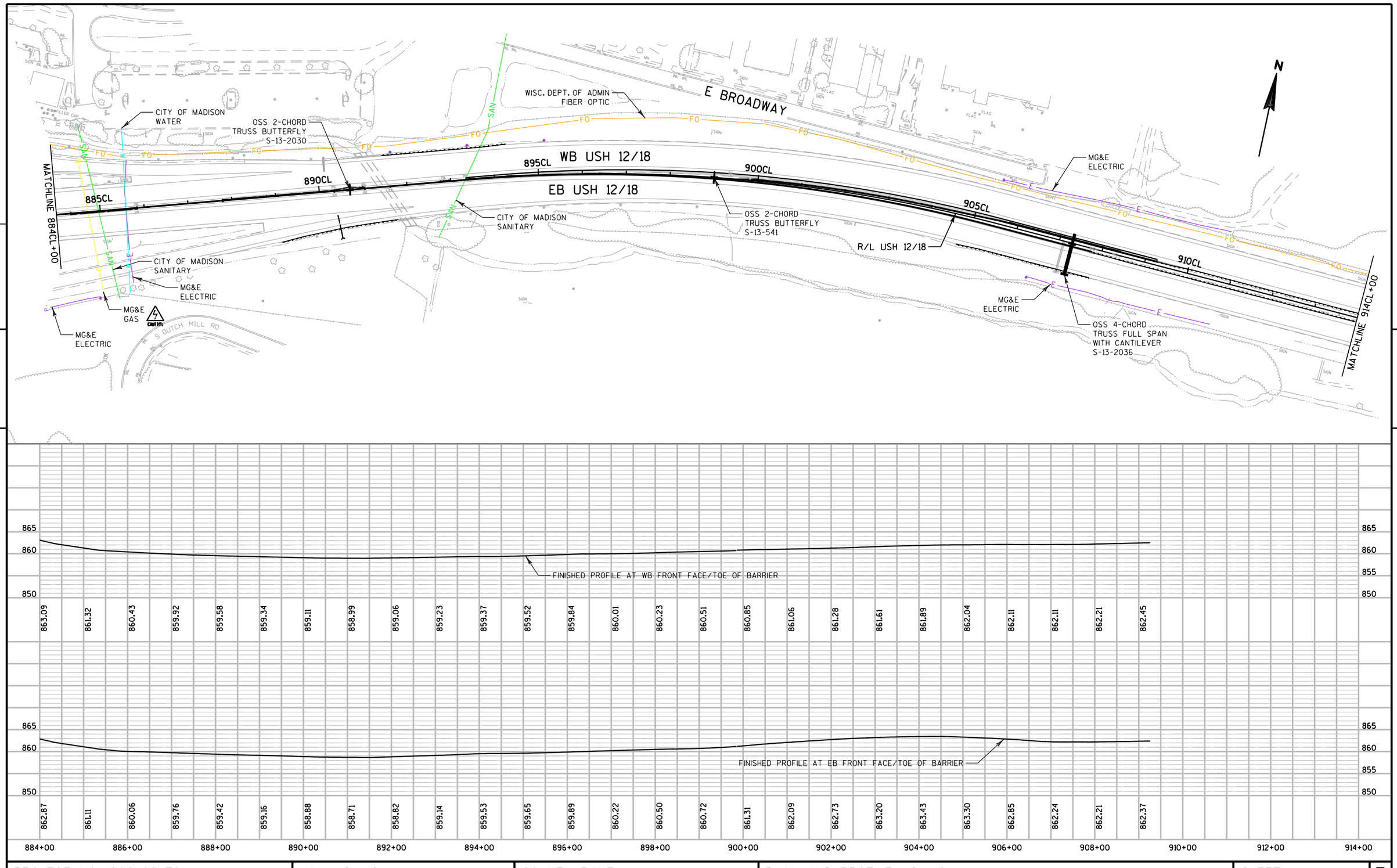


PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E





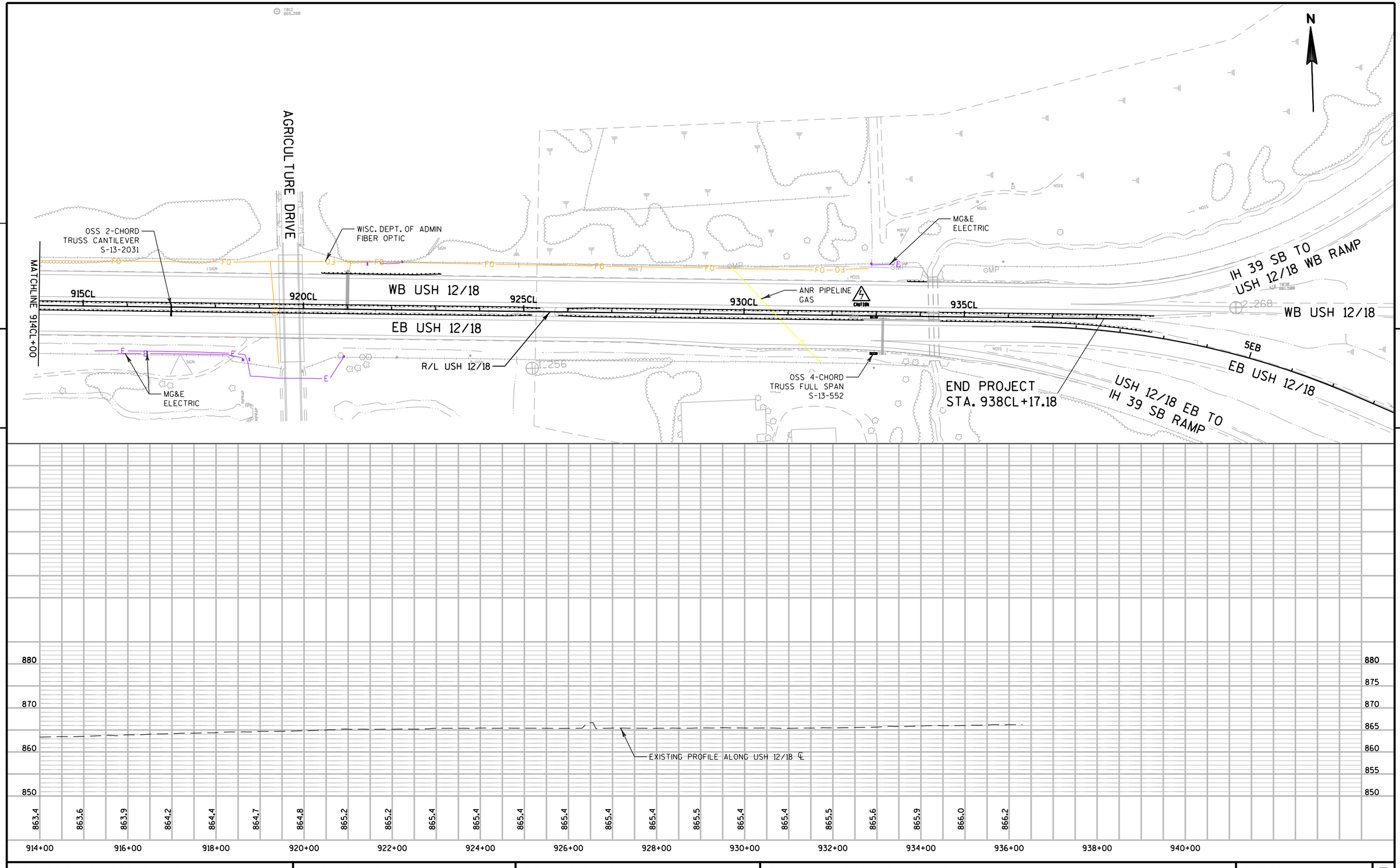
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\050118_pp.dgn PLOT DATE : 3/2/2020 4:54:03 PM PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 40



PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: USH 12	SHEET	E

N

CITY OF MADISON WATER

TOWN OF MADISON STORM SEWER

482TDNE

480TDNE

WISDOT FIBER OPTIC

R/L USH 12/18 WB TO TODD DRIVE

WISDOT STORM SEWER

484TDNE

TOWN OF MADISON SANITARY

486TDNE

488TDNE

CENTURY LINK FIBER OPTIC

490TDNE

492TDNE

MG&E ELECTRIC

CANNONBALL PATH

494TDNE

TODD DRIVE NW RAMP

OVERHEAD ELECTRIC

R/L USH 12/18

WB USH 12/18

WISDOT UNDERGROUND

576CL

578CL

CITY OF MADISON WATER

580CL

582CL

5

5

FINISHED PROFILE ALONG TDNE

887.87 887.62 887.37 887.12 886.91 886.92 887.19 887.69 888.23 888.76 889.29 889.83 890.36 890.90 891.43 891.96

900 895 890 885 880

480+00 481+00 482+00 483+00 484+00 485+00 486+00 487+00 488+00 489+00 490+00 491+00 492+00 493+00 494+00 495+00

PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: TODD DRIVE NW RAMP	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\050120_pp.dgn PLOT DATE : 3/2/2020 4:54:22 PM PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

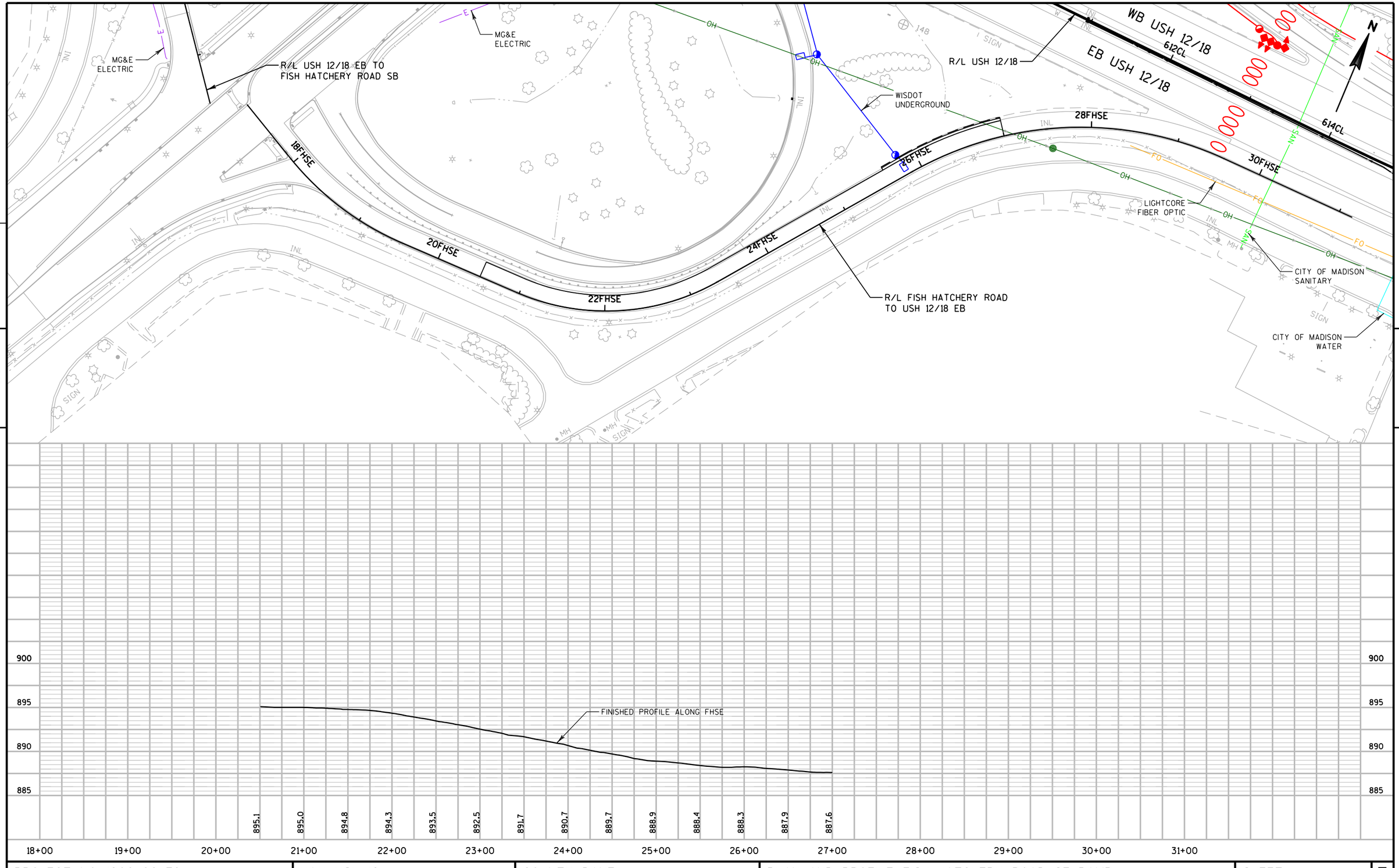
CITY OF MADISON WATER
CITY OF MADISON SANITARY
WISDOT UNDERGROUND
MG&E ELECTRIC
MG&E GAS
WB USH 12/18
EB USH 12/18
598CL
596CL
594CL
10FHSW
12FHSW
14FHSW
16FHSW
18FHSE
20FHSE
22FHSE
FISH HATCHERY ROAD SW RAMP
CITY OF MADISON WATER
WISDOT STORM SEWER
WISDOT UNDERGROUND
WISDOT FIBER OPTIC
MG&E ELECTRIC
R/L USH 12/18
R/L USH 12/18 EB TO FISH HATCHERY ROAD SB
R/L FISH HATCHERY ROAD TO USH 12/18 EB
N

FINISHED PROFILE ALONG FHSW

10+00	11+00	12+00	13+00	14+00	15+00	16+00	17+00	18+00	19+00	20+00	21+00	22+00	23+00	24+00	25+00
	896.74	895.74	894.74	893.87	893.47	893.59	893.91	894.23	894.55	894.88	895.37				

900
895
890

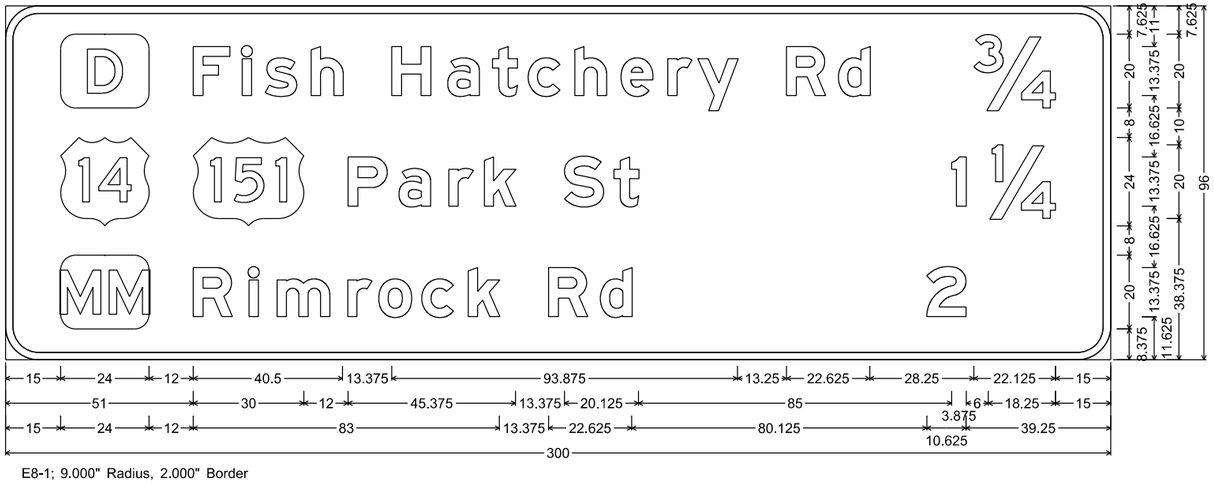
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: FISH HATCHERY ROAD SW RAMP	SHEET	E



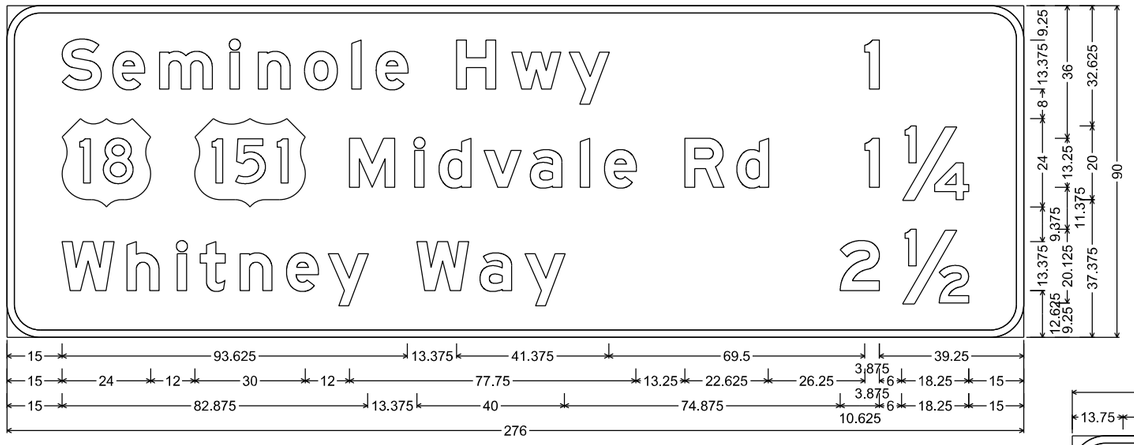
PROJECT NO: 1206-06-79	HWY: USH 12	COUNTY: DANE	PLAN AND PROFILE: FISH HATCHERY ROAD SE RAMP	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\050122_pp.dgn PLOT DATE : 3/2/2020 4:54:30 PM PLOT BY : ctomsak PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 40



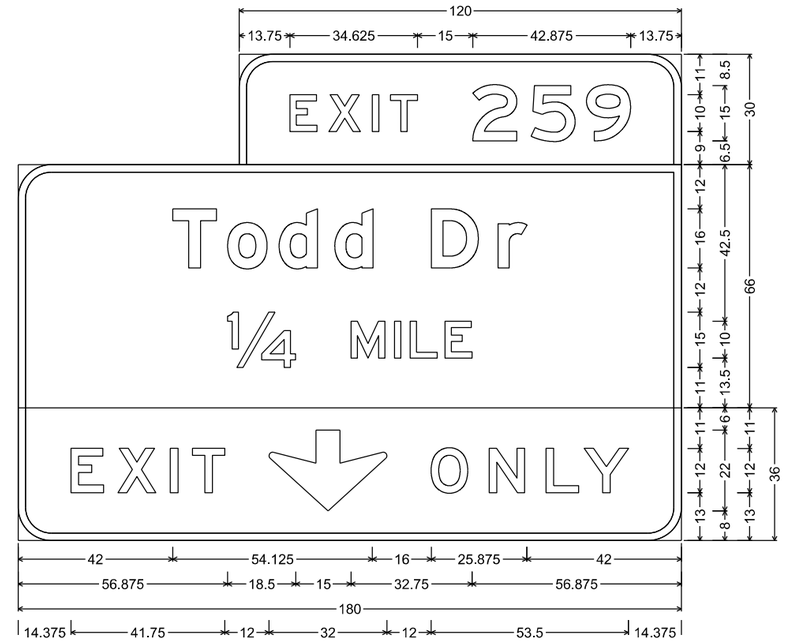
E8-1; 9.000" Radius, 2.000" Border



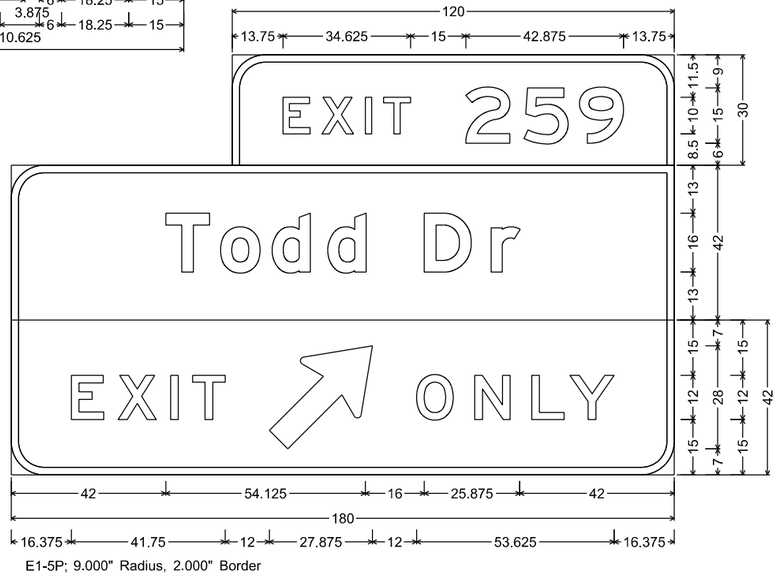
E8-1; 9.000" Radius, 2.000" Border

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT ONLY Panel on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



E1-5P; 9.000" Radius, 2.000" Border
E6-51; 9.000" Radius, 2.000" Border
E11-1; 9.000" Radius, 2.000" Border, Black on Yellow

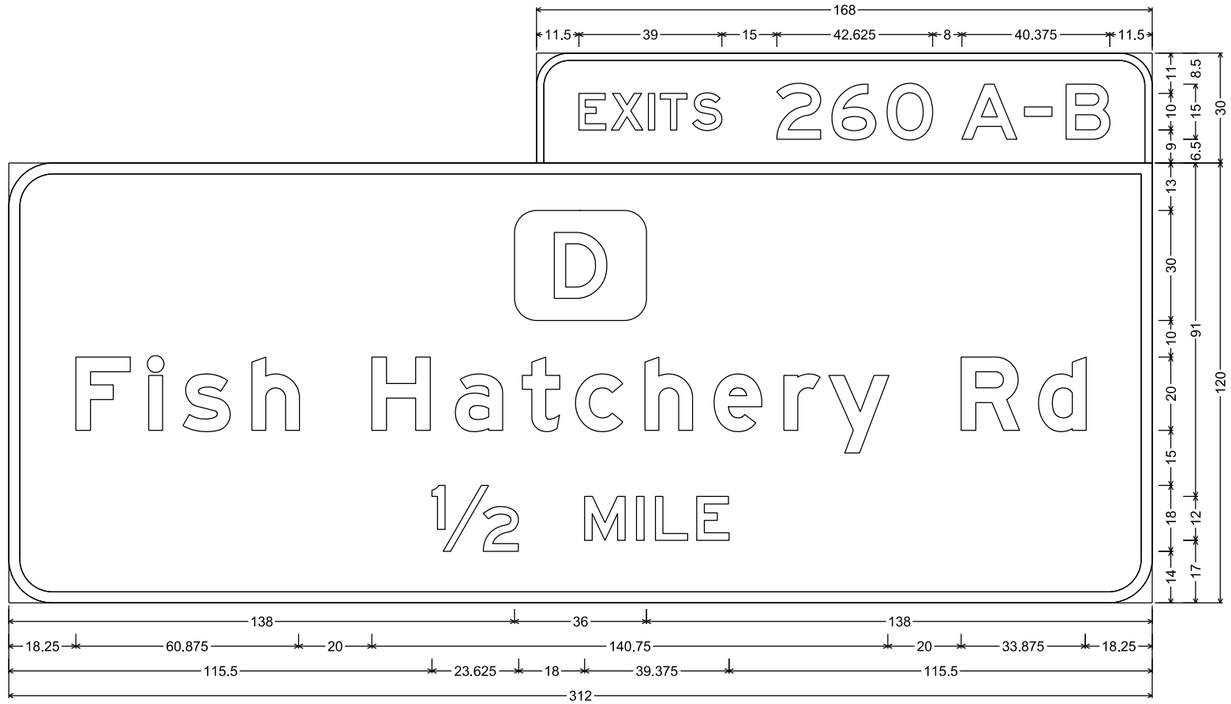


E1-5P; 9.000" Radius, 2.000" Border
E6-1; 9.000" Radius, 2.000" Border
E11-1D; 9.000" Radius, 2.000" Border, Black on Yellow

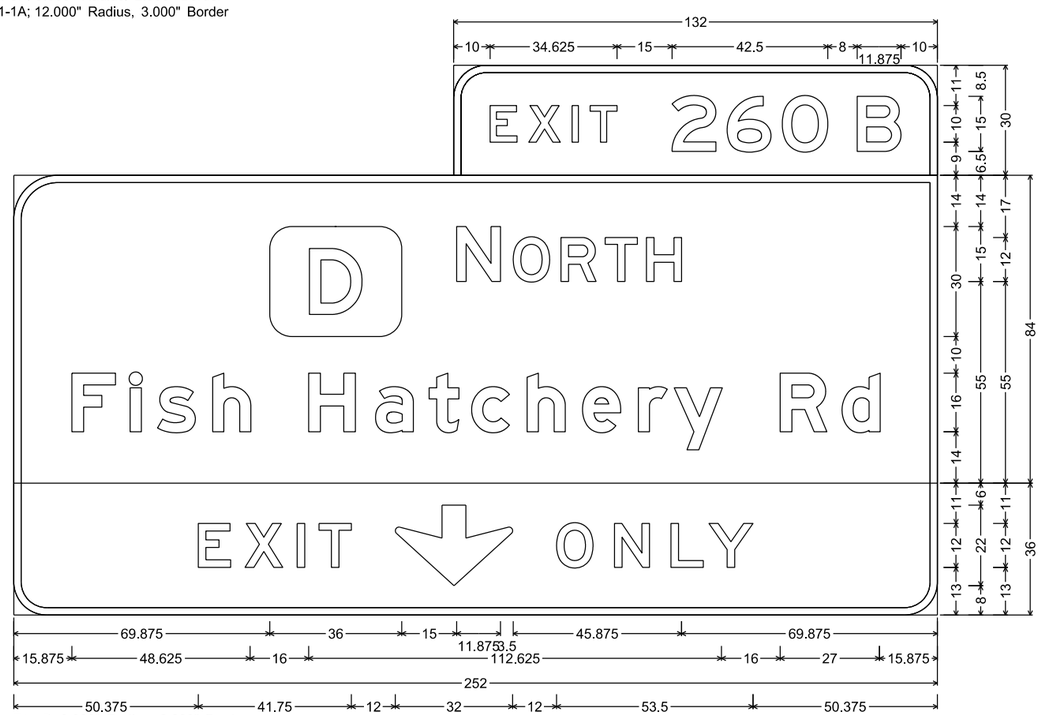
7

7

PROJECT NO: 1206-06-08	HWY: USH 12	COUNTY: DANE	PERMANENT SIGNING	SHEET NO:	E



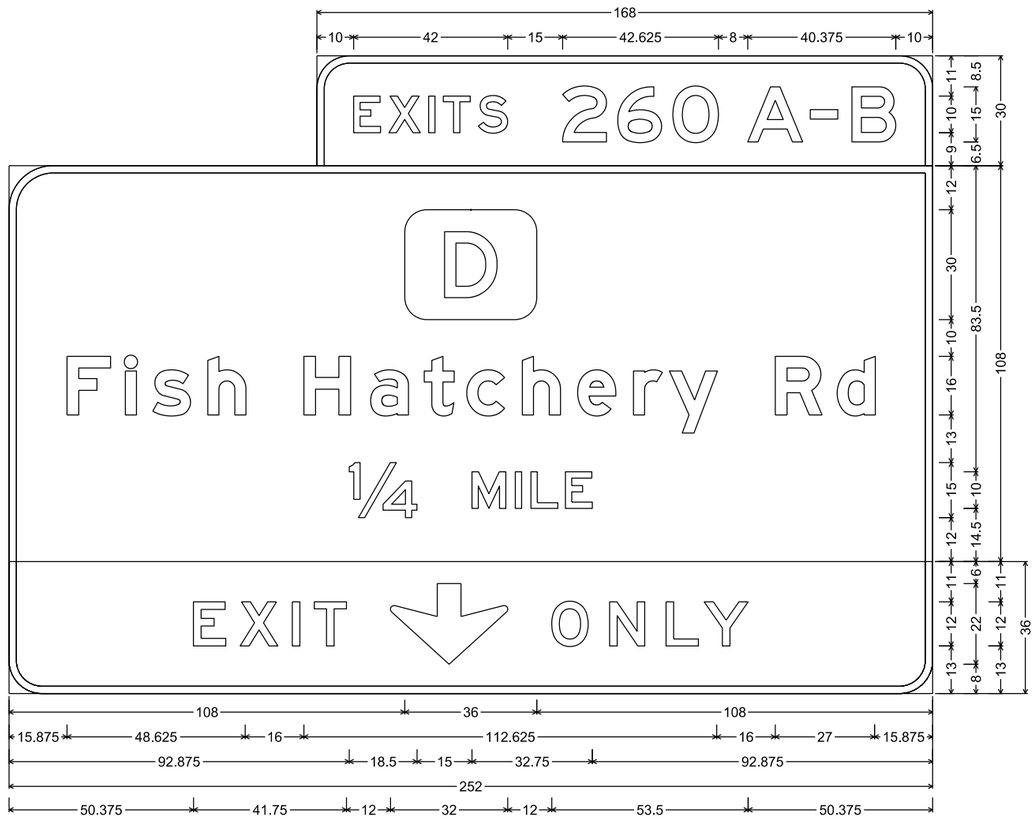
E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border



E1-5P; 9.000" Radius, 2.000" Border
E6-1; 12.000" Radius, 2.000" Border
E11-1; 9.000" Radius, 2.000" Border, Black on, Yellow

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT ONLY Panel on Yellow Type F Reflective Sheeting with Black Non-Reflective Message

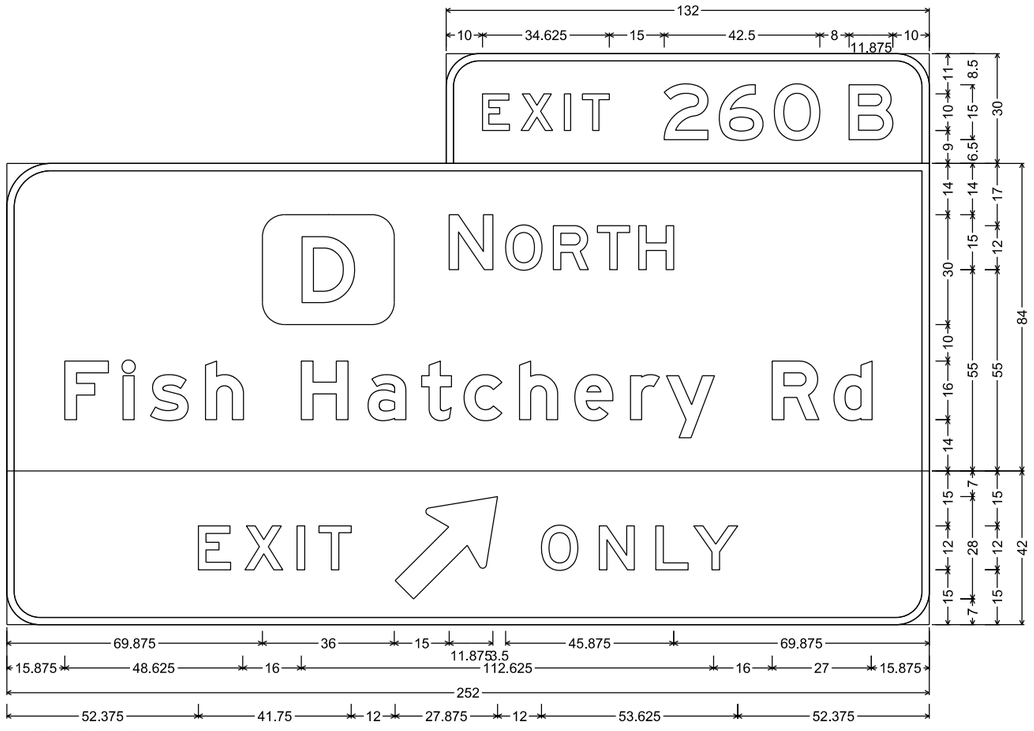


E1-5P; 9.000" Radius, 2.000" Border, White on, Green;
E6-51; 12.000" Radius, 2.000" Border, White on, Green;
E11-1; 9.000" Radius, 2.000" Border, Black on, Yellow;

7

7

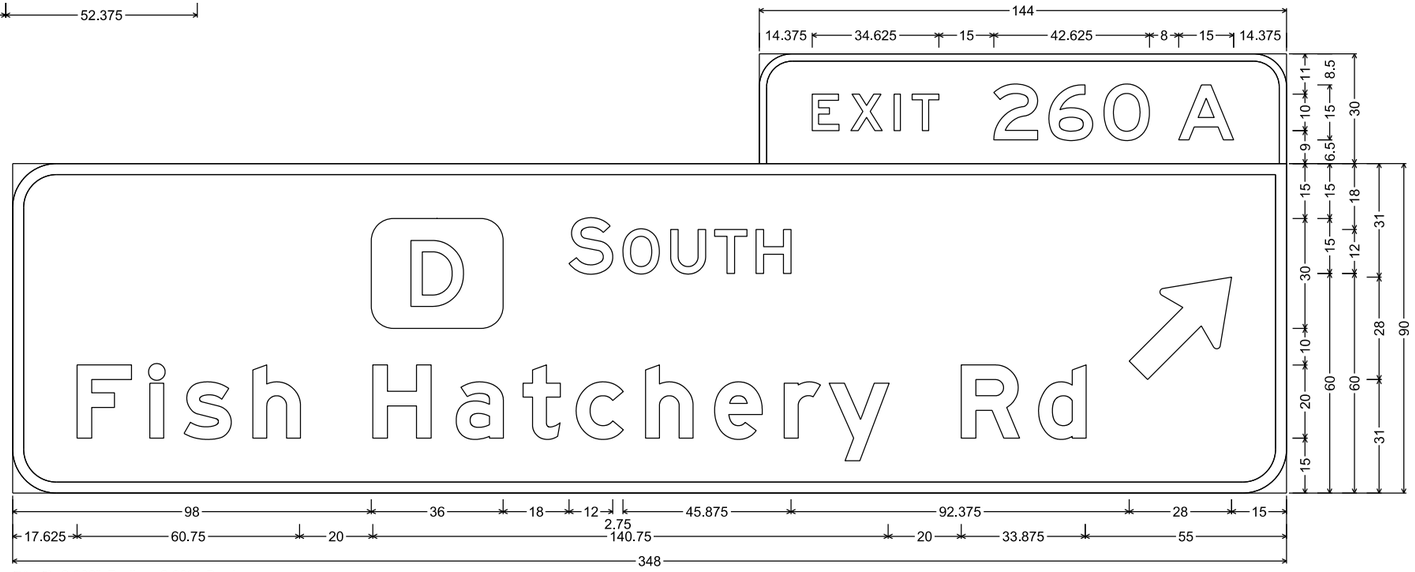
PROJECT NO: 1206-06-08	HWY: USH 12	COUNTY: DANE	PERMANENT SIGNING	SHEET NO: E



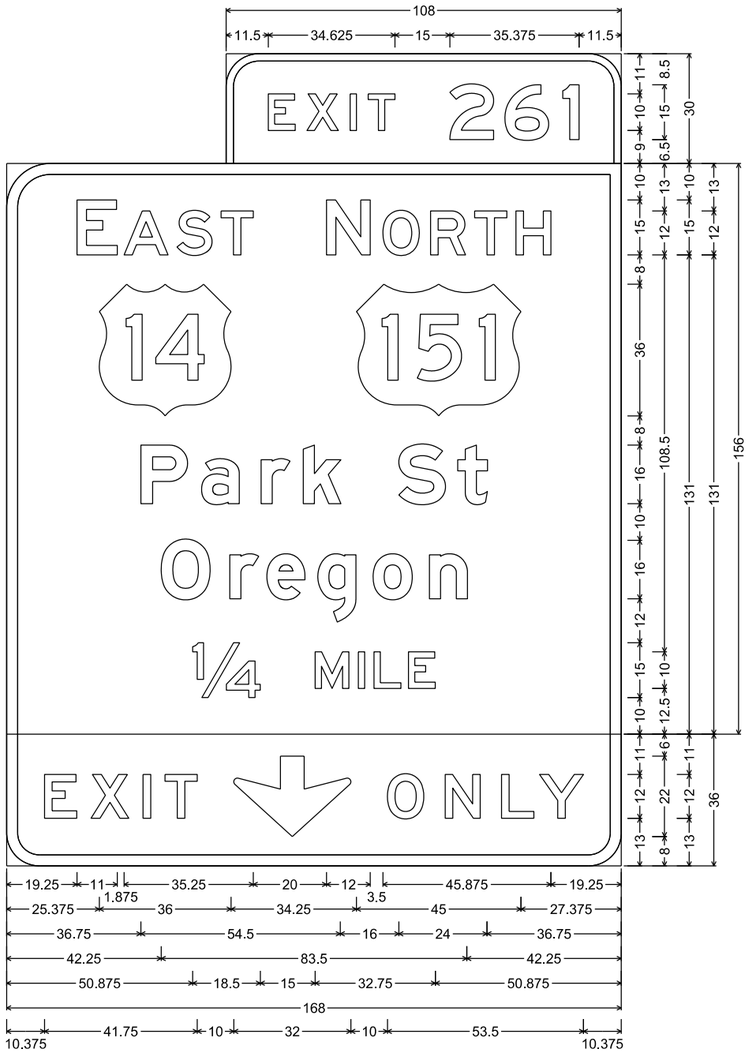
E1-5P; 9.000" Radius, 2.000" Border
E6-1; 12.000" Radius, 2.000" Border
E11-1D; 9.000" Radius, 2.000" Border, Black on Yellow

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT ONLY Panel on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



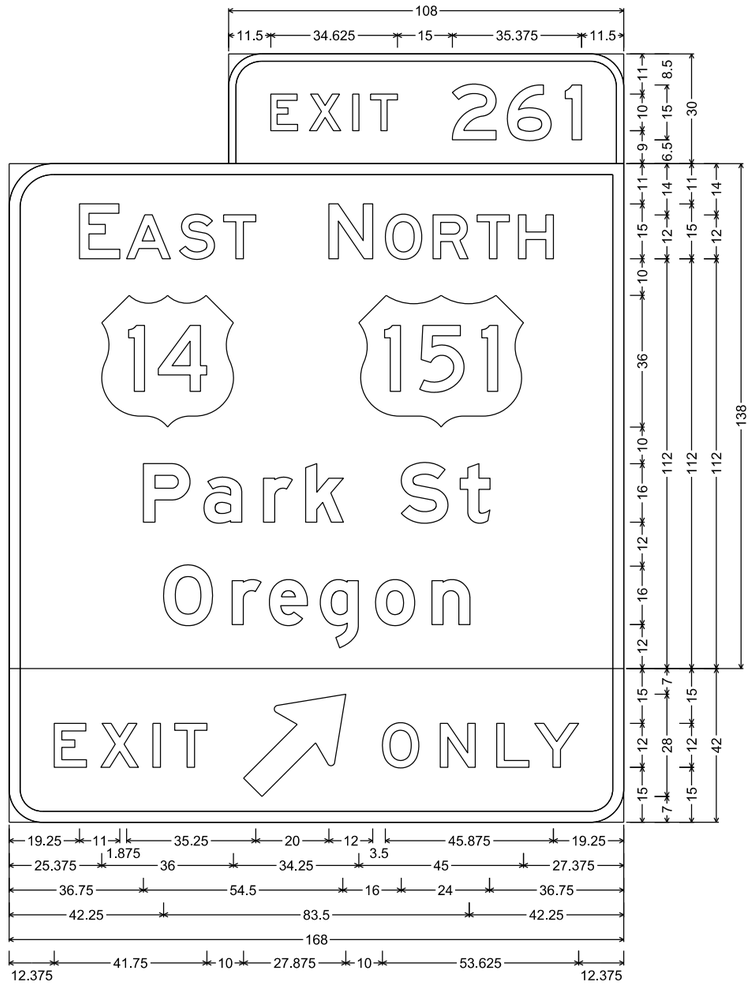
E1-5P; 9.000" Radius, 2.000" Border
E4-1A; 12.000" Radius, 3.000" Border



E1-5P; 9.000" Radius, 2.000" Border
E6-51; 12.000" Radius, 3.000" Border
E11-1; 9.000" Radius, 3.000" Border, Black on Yellow

NOTES

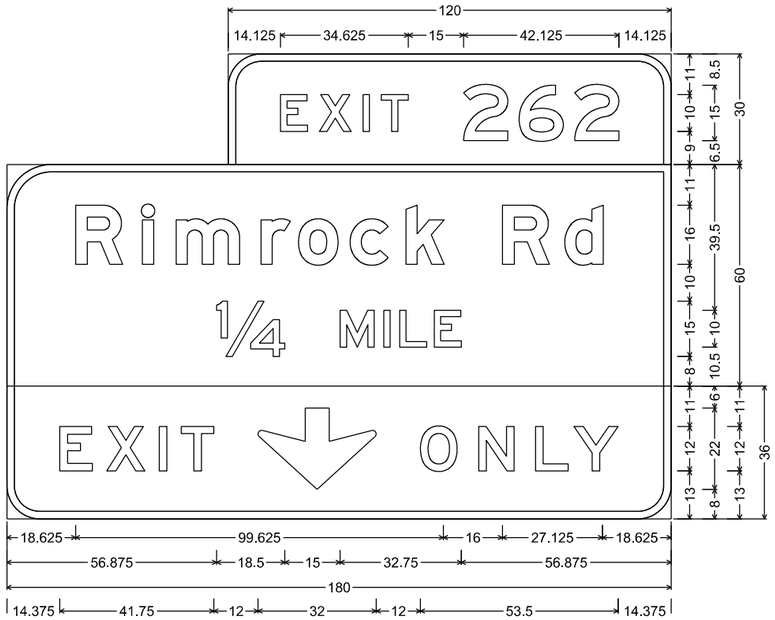
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT ONLY Panel on Yellow Type F Reflective Sheeting
   with Black Non-Reflective Message



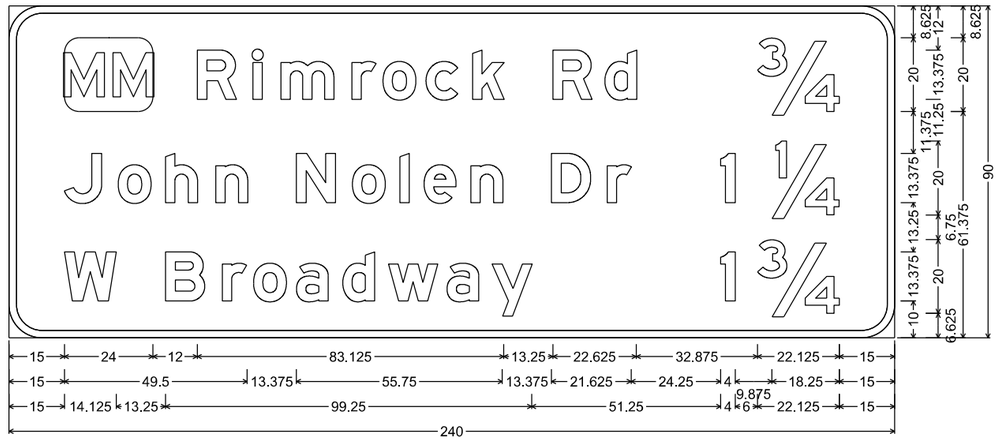
E1-5P; 9.000" Radius, 2.000" Border
E6-1; 12.000" Radius, 3.000" Border
E11-1D; 9.000" Radius, 3.000" Border, Black on Yellow

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT ONLY Panel on Yellow Type F Reflective Sheeting with Black Non-Reflective Message

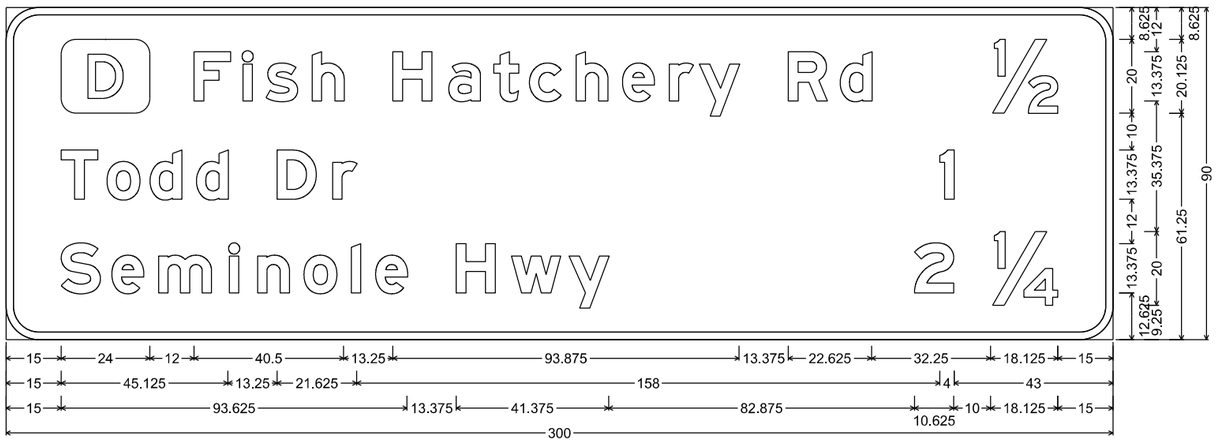


E1-5P; 9.000" Radius, 2.000" Border,
E6-51; 12.000" Radius, 2.000" Border,
E11-1; 9.000" Radius, 2.000" Border, Black on Yellow;

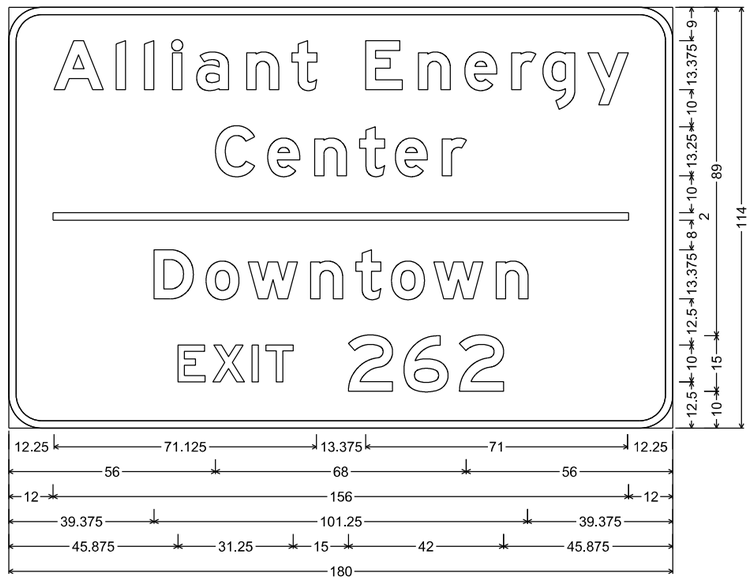


E8-1; 9.000" Radius, 2.000" Border

7



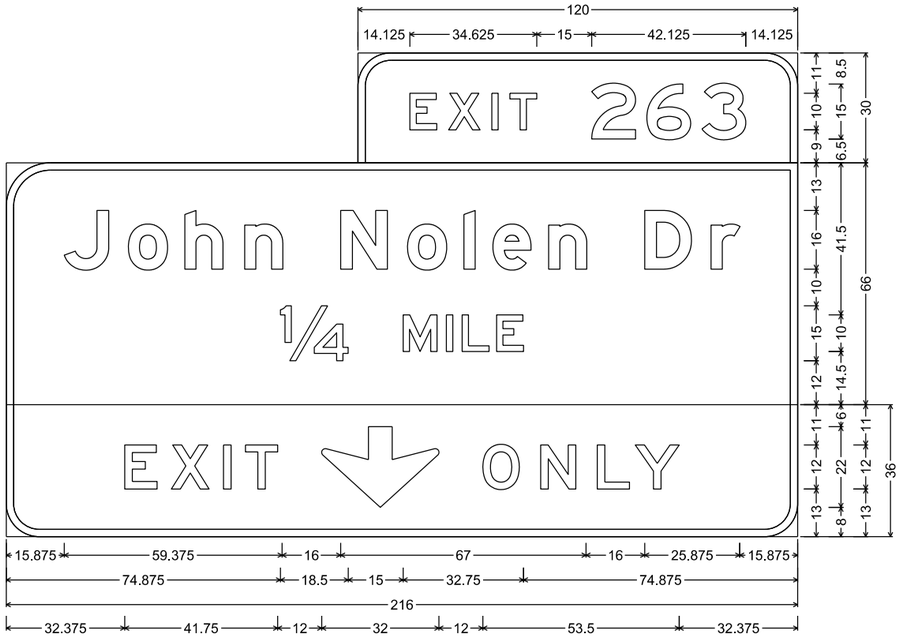
E8-1; 9.000" Radius, 2.000" Border



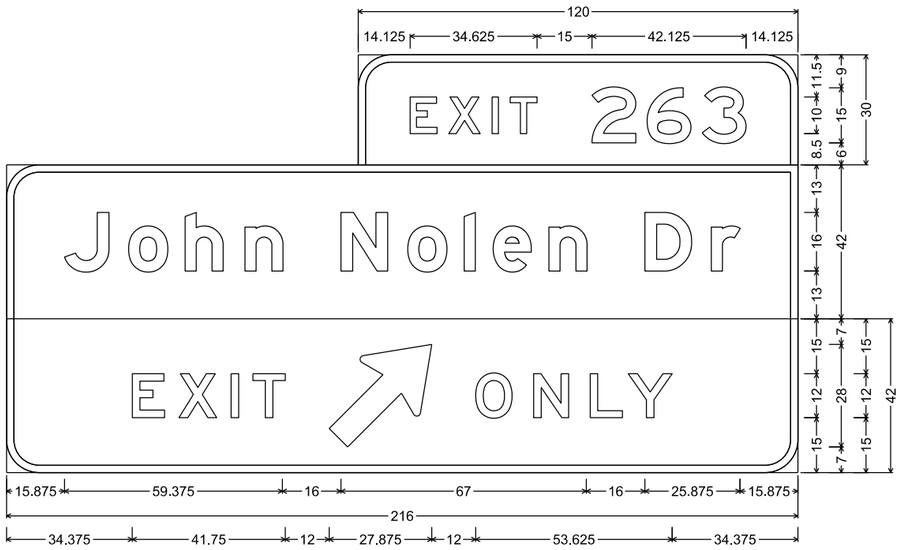
E3-1; 9.000" Radius, 2.000" Border

7

PROJECT NO: 1206-06-08	HWY: USH 12	COUNTY: DANE	PERMANENT SIGNING	SHEET NO: E



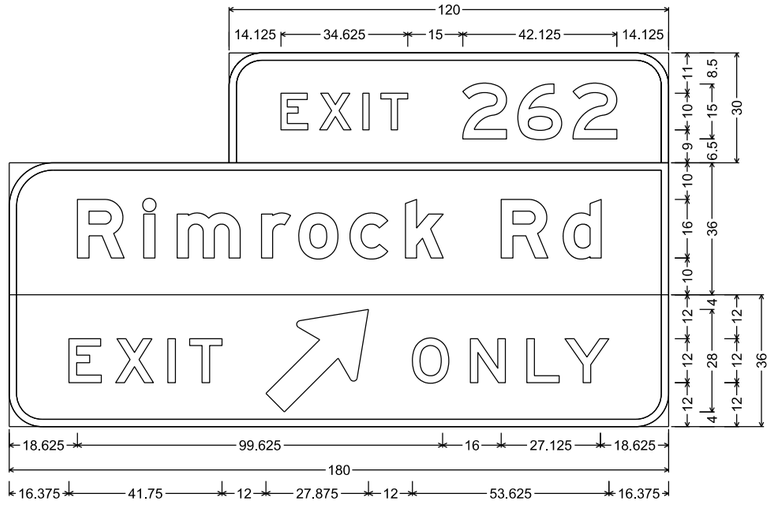
E1-5P; 9.000" Radius, 2.000" Border
E6-51; 12.000" Radius, 2.000" Border
E11-1; 9.000" Radius, 2.000" Border, Black on Yellow



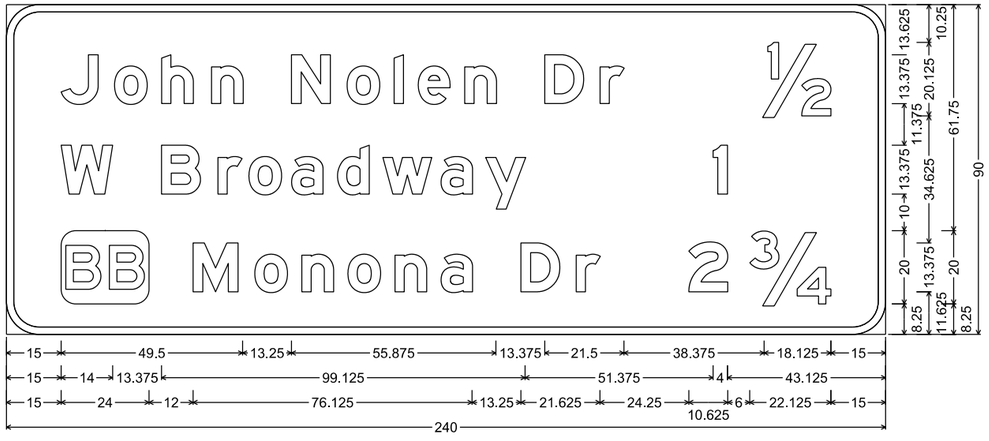
E1-5P; 9.000" Radius, 2.000" Border
E6-1; 9.000" Radius, 2.000" Border
E11-1D; 9.000" Radius, 2.000" Border, Black on Yellow

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT ONLY Panel on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



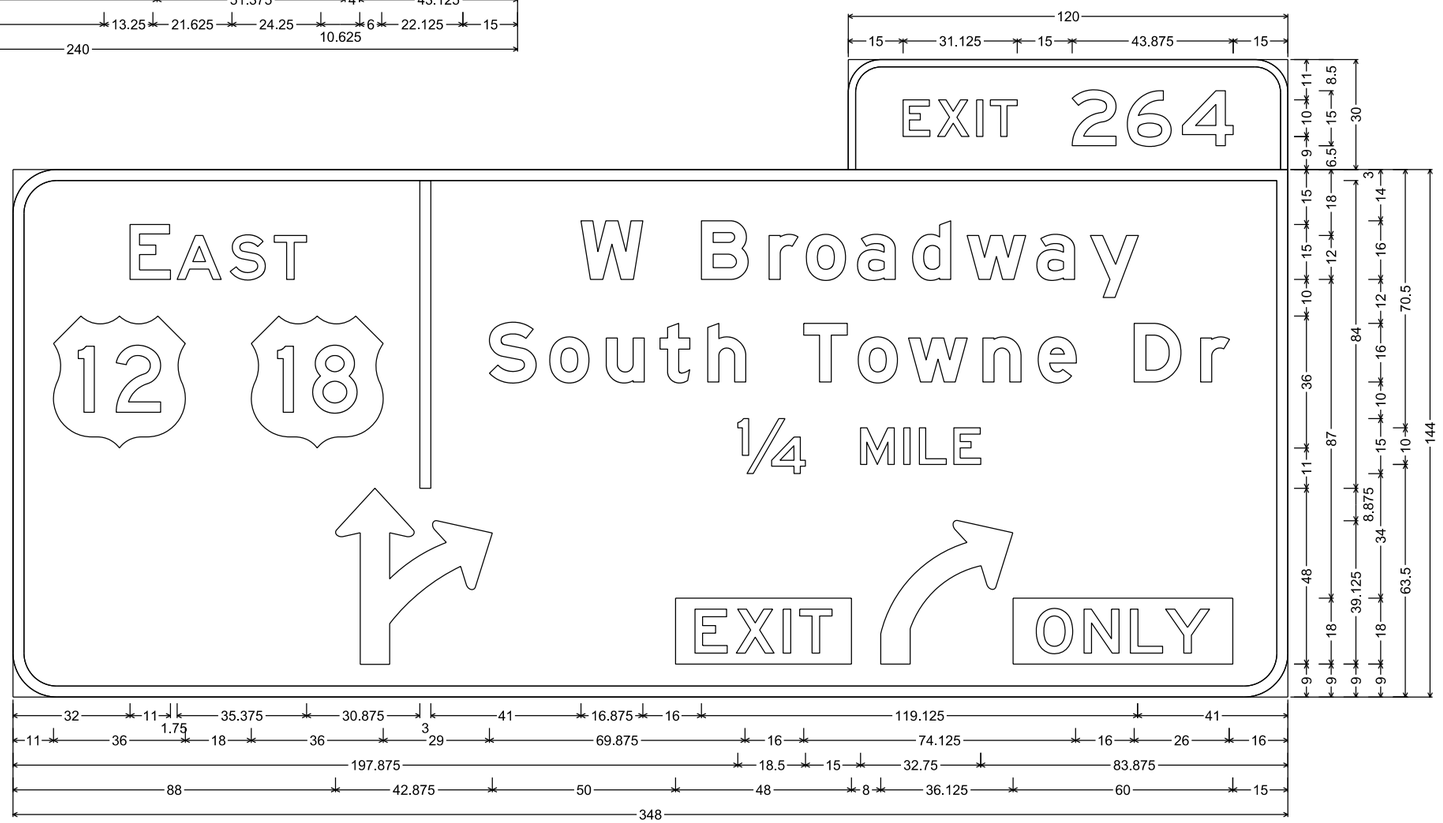
E1-5P; 9.000" Radius, 2.000" Border
E6-1; 12.000" Radius, 2.000" Border
E11-1D; 9.000" Radius, 2.000" Border, Black on Yellow



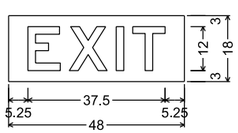
E8-1; 9.000" Radius, 2.000" Border

NOTES

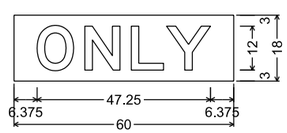
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT and ONLY Plaque on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



E1-5P; 9.000" Radius, 2.000" Border
E7-2; 12.000" Radius, 3.000" Border



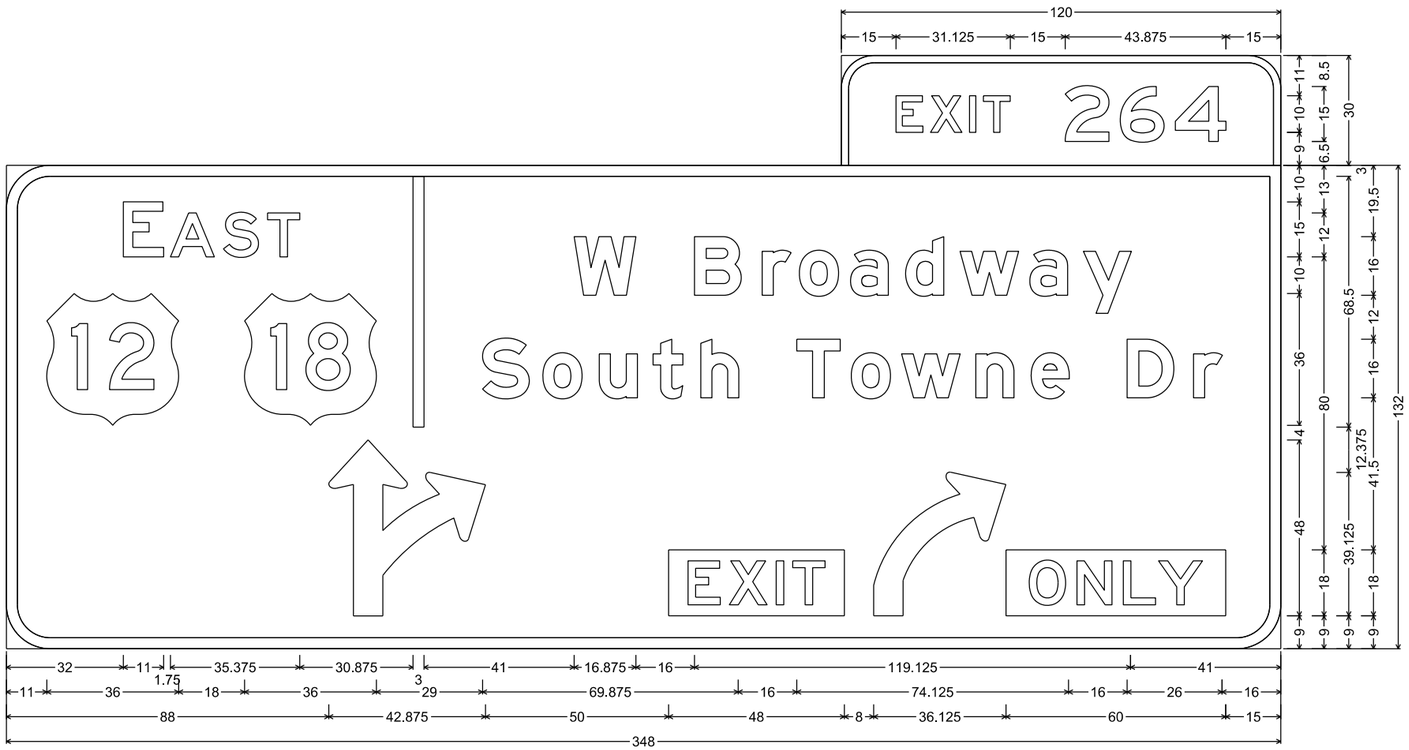
No border, Black on, Fluorescent yellow;
"EXIT", E;



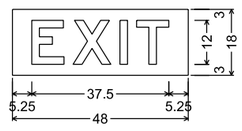
No border, Black on, Fluorescent yellow;
"ONLY", E;

NOTES

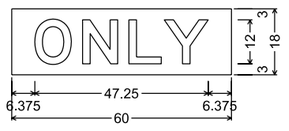
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT and ONLY Plaque on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



E1-5P; 9.000" Radius, 2.000" Border
E7-2; 12.000" Radius, 3.000" Border



No border, Black on, Fluorescent yellow;
"EXIT", E;

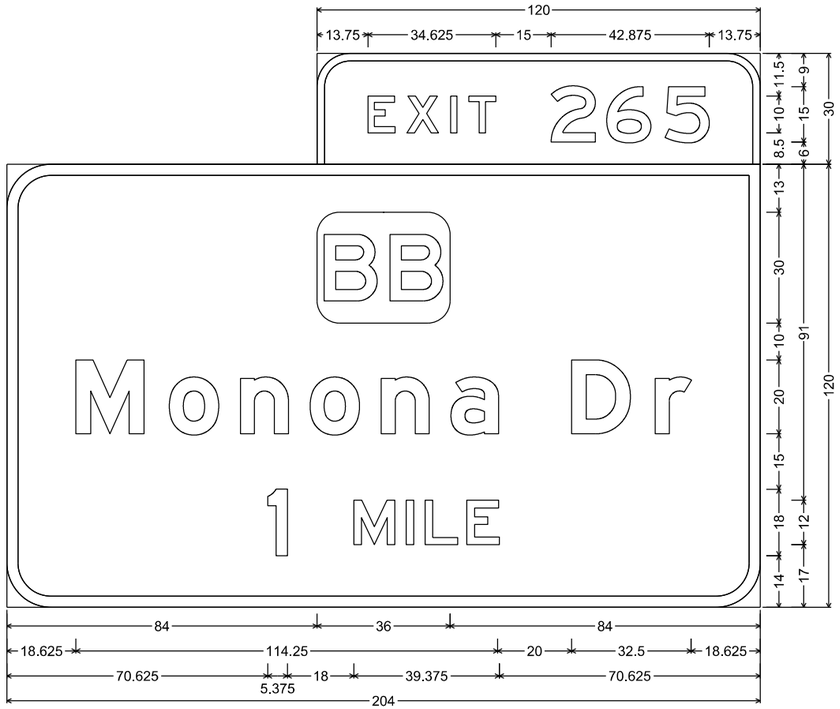


No border, Black on, Fluorescent yellow;
"ONLY", E;

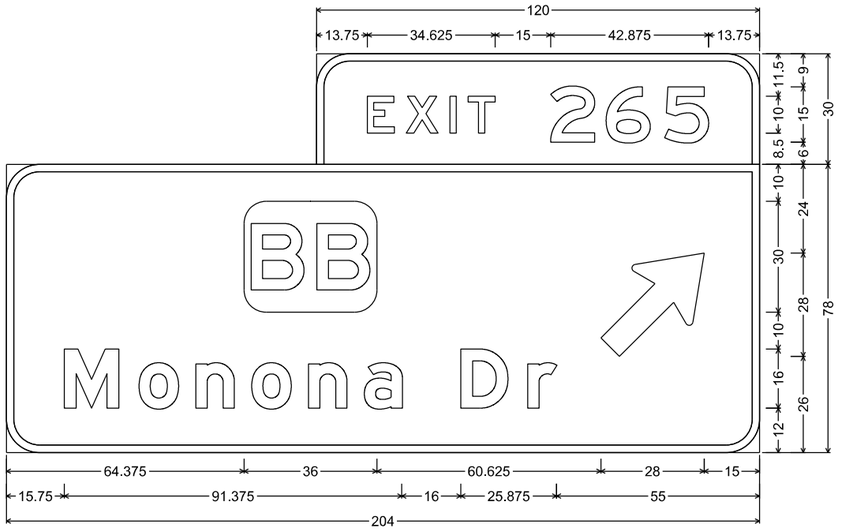
PROJECT NO: 1206-06-08	HWY: USH 12	COUNTY: DANE	PERMANENT SIGNING	SHEET NO:	E

NOTES

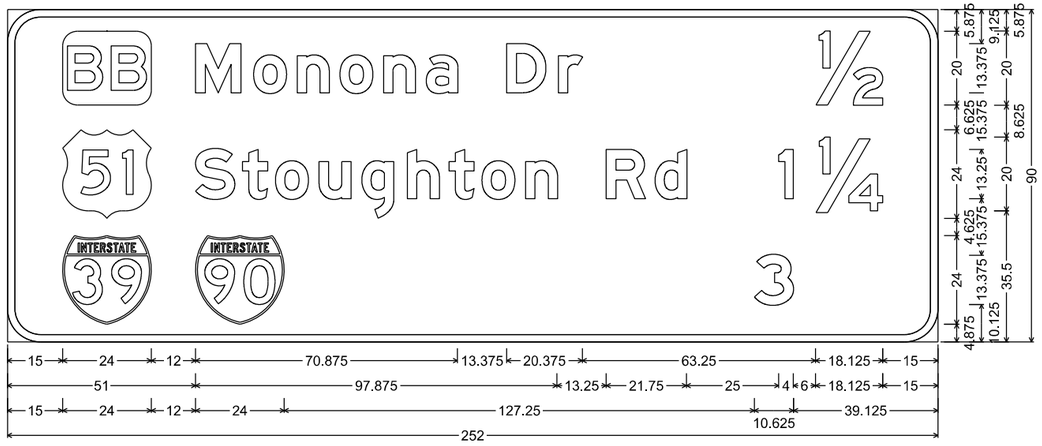
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E



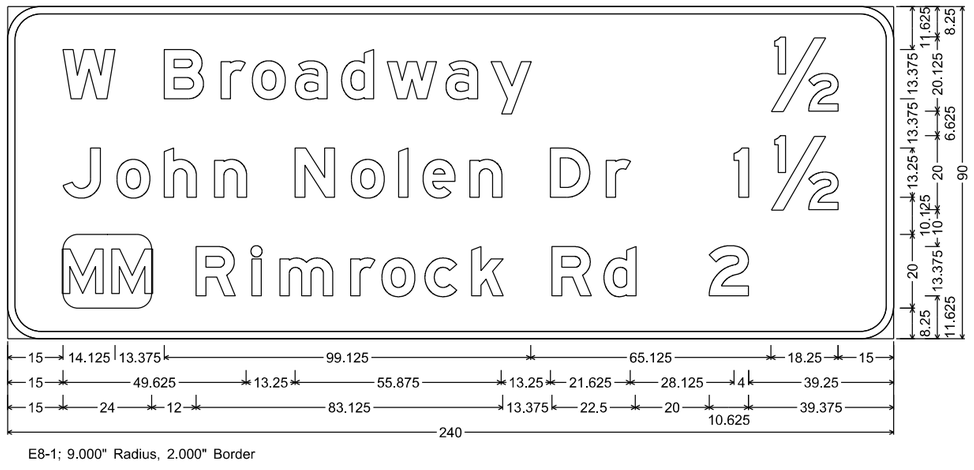
E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border



E1-5P; 9.000" Radius, 2.000" Border
E6-1; 9.000" Radius, 2.000" Border



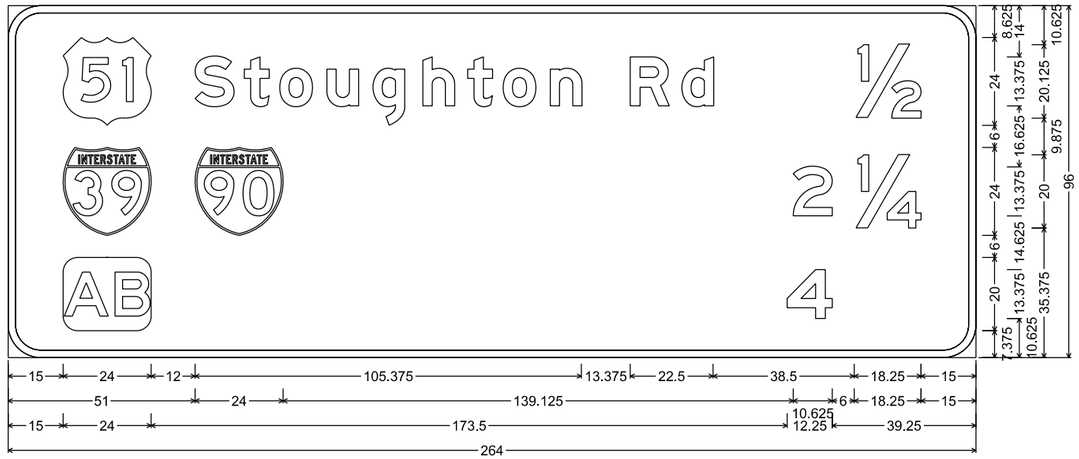
E8-1; 9.000" Radius, 2.000" Border



E8-1; 9.000" Radius, 2.000" Border

PROJECT NO:1206-06-08	HWY: USH 12	COUNTY:DANE	PERMANENT SIGNING	SHEET NO:	E

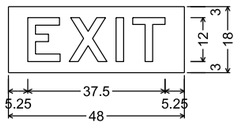
FILE NAME : C:\CAEfiles\Projects\tr_d1\1137an19.dgn PLOT DATE : 05-NOV-2019 PLOT BY : dotc4c PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



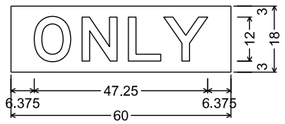
E8-1; 9.000" Radius, 2.000" Border

NOTES

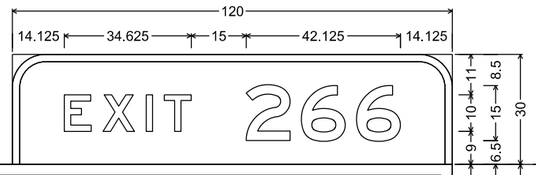
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT and ONLY Plaque on Yellow Type F Reflective Sheeting with Black Non-Reflective Message

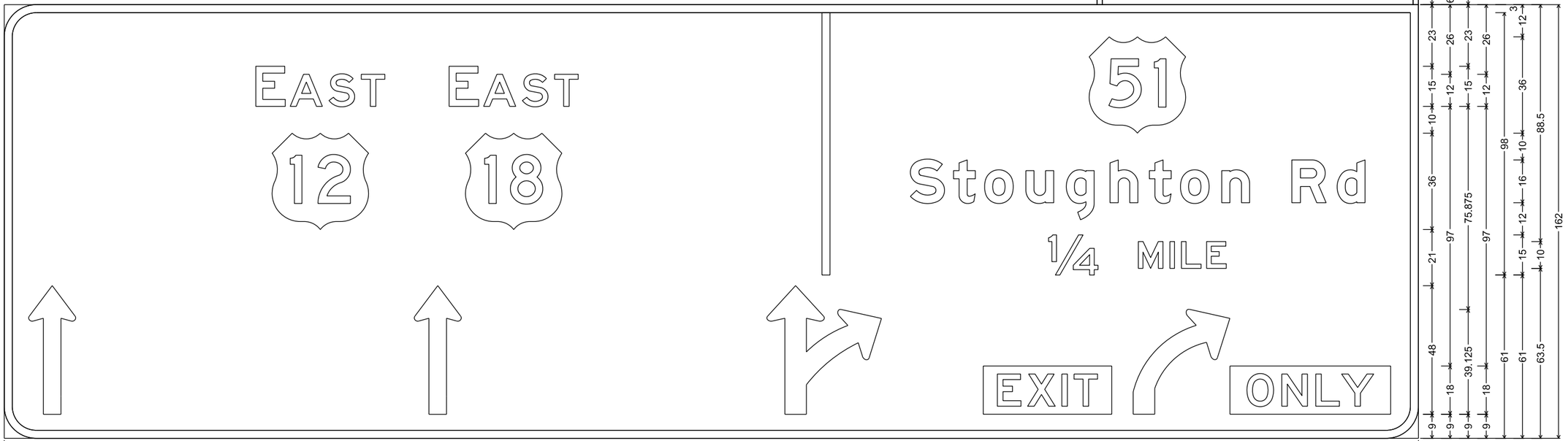


No border, Black on, Fluorescent yellow;
"EXIT", E;

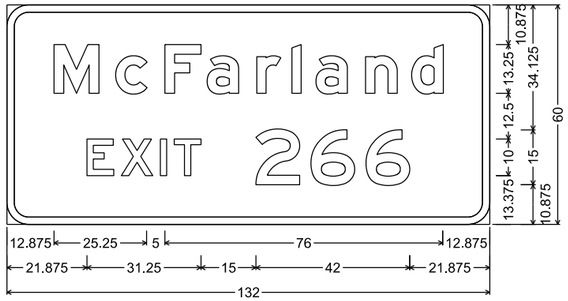


No border, Black on, Fluorescent yellow;
"ONLY", E;





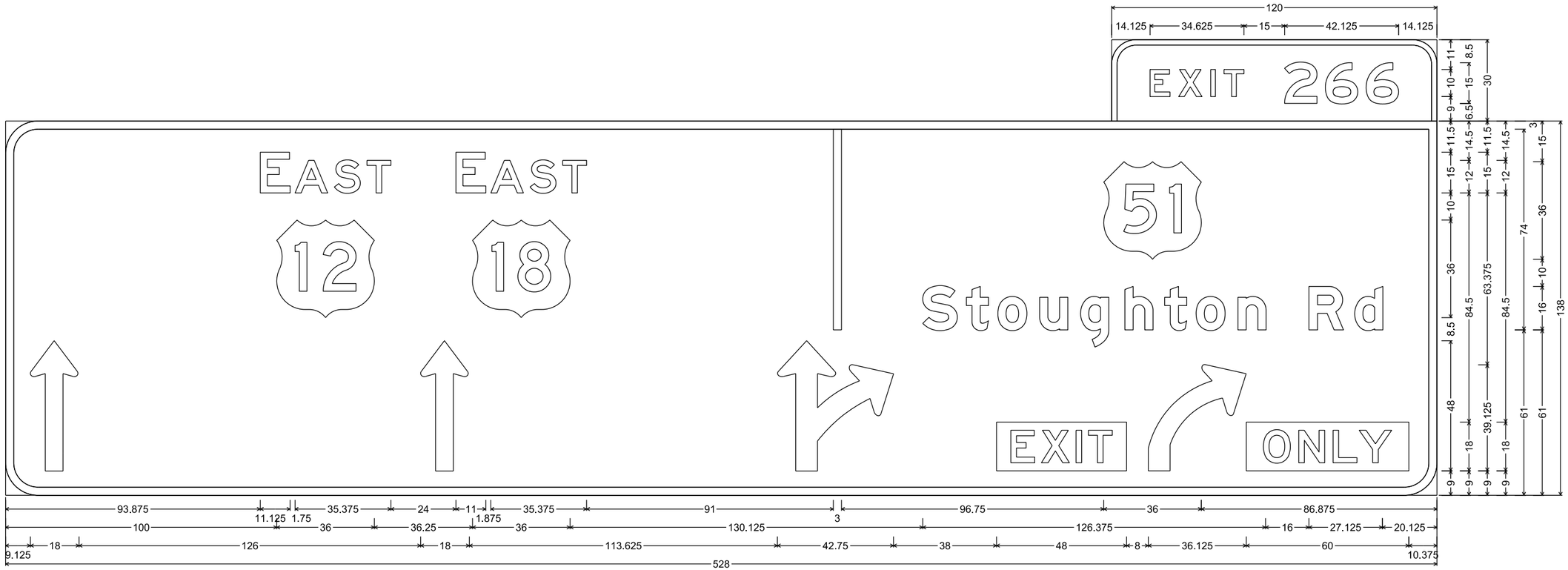
E1-5P; 9.000" Radius, 2.000" Border
E7-4; 12.000" Radius, 3.000" Border



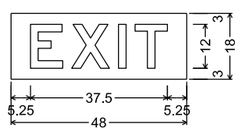
E3-1; 6.000" Radius, 2.000" Border

NOTES

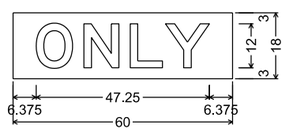
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT and ONLY Plaque on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



E1-5P; 9.000" Radius, 2.000" Border
E7-4; 12.000" Radius, 3.000" Border

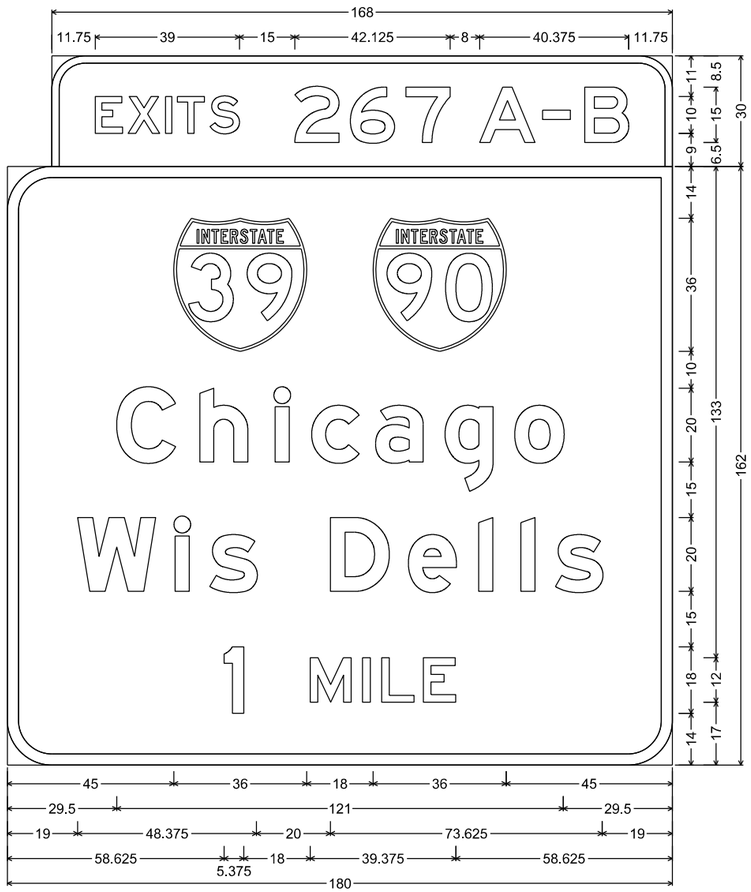


No border, Black on, Fluorescent yellow;
"EXIT", E;



No border, Black on, Fluorescent yellow;
"ONLY", E;

PROJECT NO: 1206-06-08	HWY: USH 12	COUNTY: DANE	PERMANENT SIGNING	SHEET NO:	E



E1-5P; 9.000" Radius, 2.000" Border
E1-1A; 12.000" Radius, 3.000" Border

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E

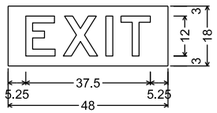
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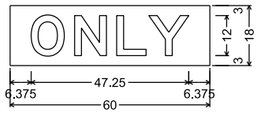
PROJECT NO:1206-06-08	HWY: USH 12	COUNTY:DANE	PERMANENT SIGNING	SHEET NO:	E

NOTES

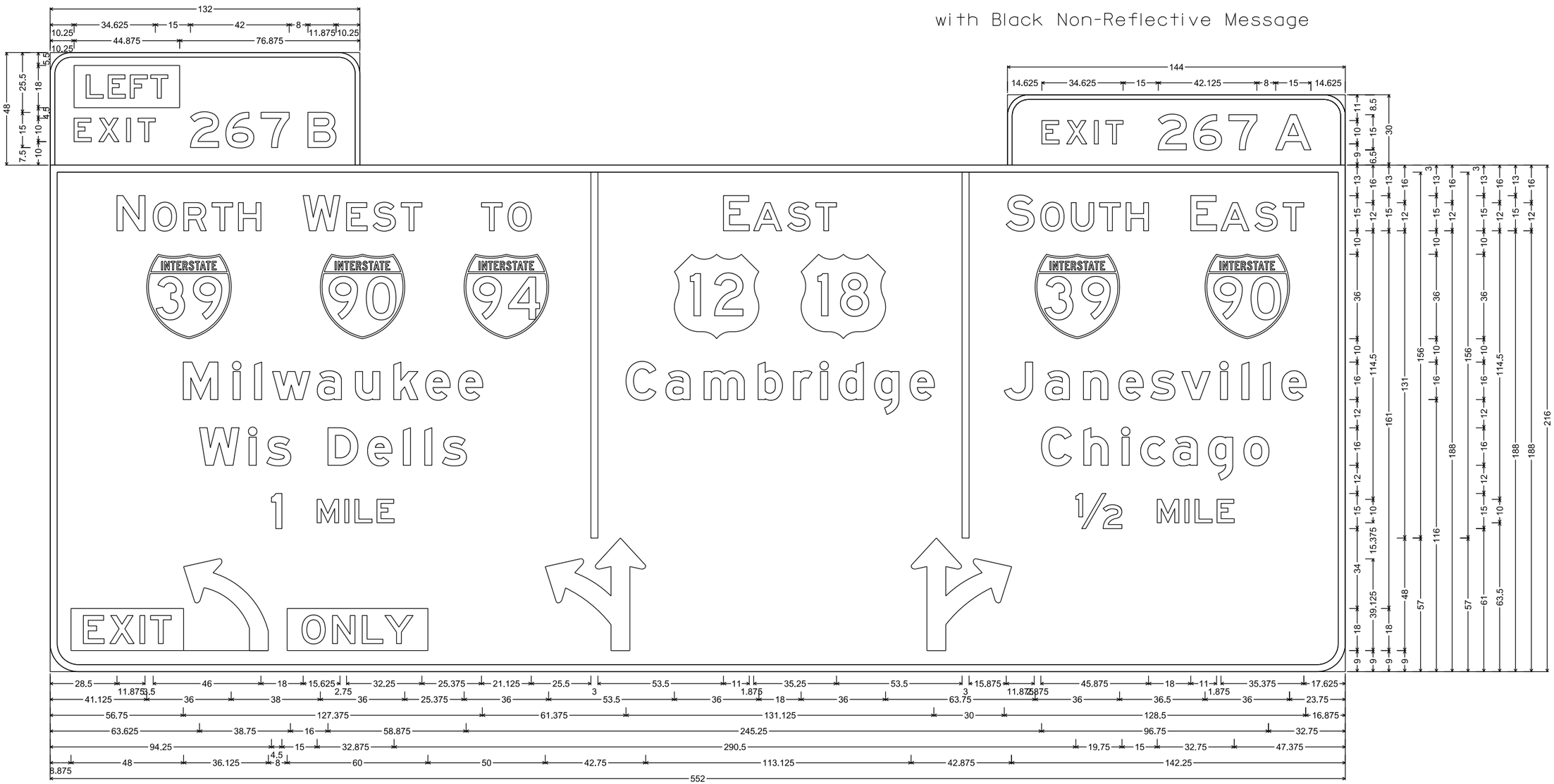
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT, ONLY and LEFT Plaque on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



No border, Black on, Fluorescent yellow;
"EXIT", E;



No border, Black on, Fluorescent yellow;
"ONLY", E;

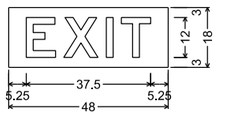


E1-5BP; 9.000" Radius, 2.000" Border, White on Green; Rectangle Yellow
E1-5P; 9.000" Radius, 2.000" Border
E7-3; 12.000" Radius, 3.000" Border

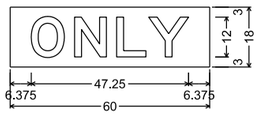
PROJECT NO: 1206-06-08	HWY: USH 12	COUNTY: DANE	PERMANENT SIGNING	SHEET NO:	E

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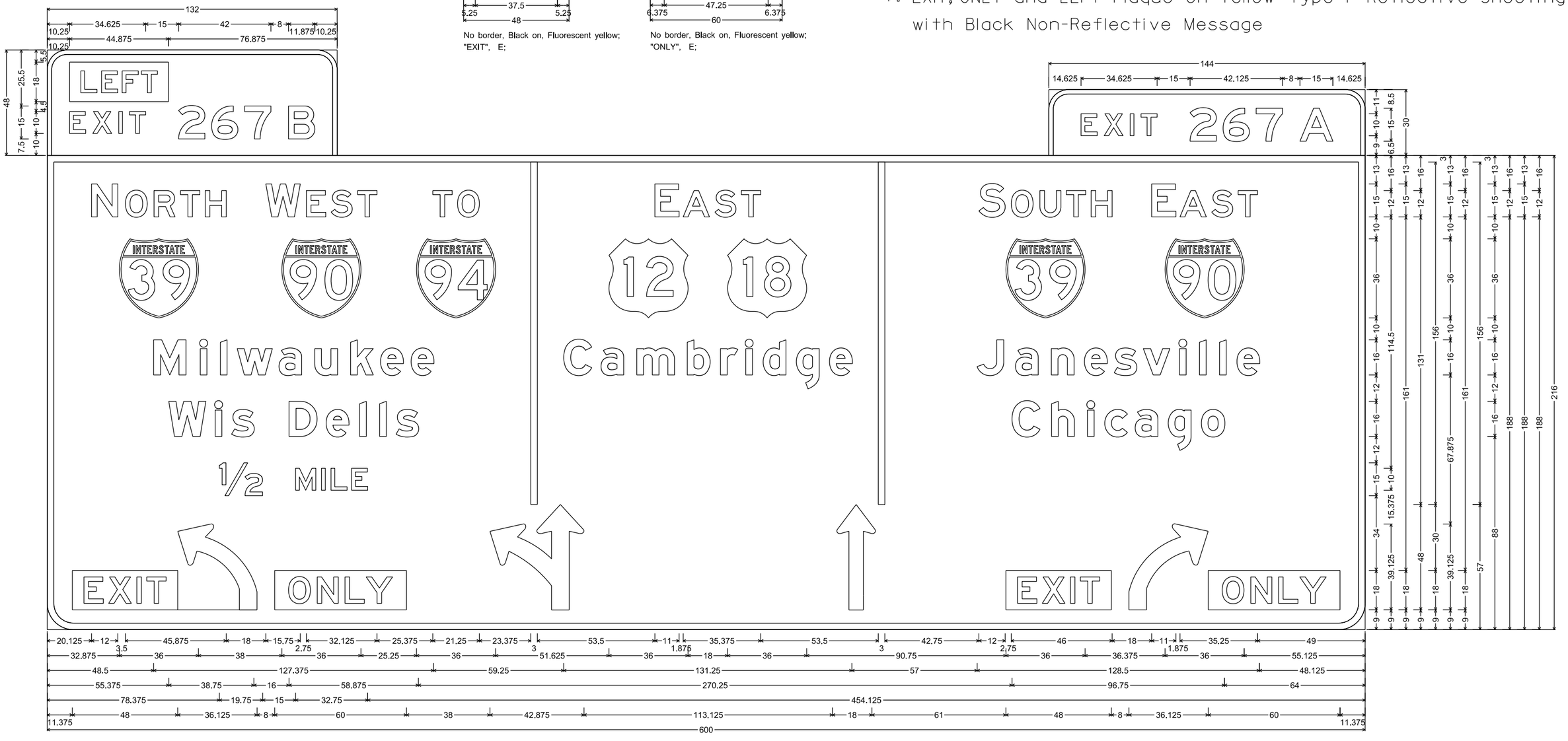
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT, ONLY and LEFT Plaque on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



No border, Black on, Fluorescent yellow;
"EXIT", E;



No border, Black on, Fluorescent yellow;
"ONLY", E;

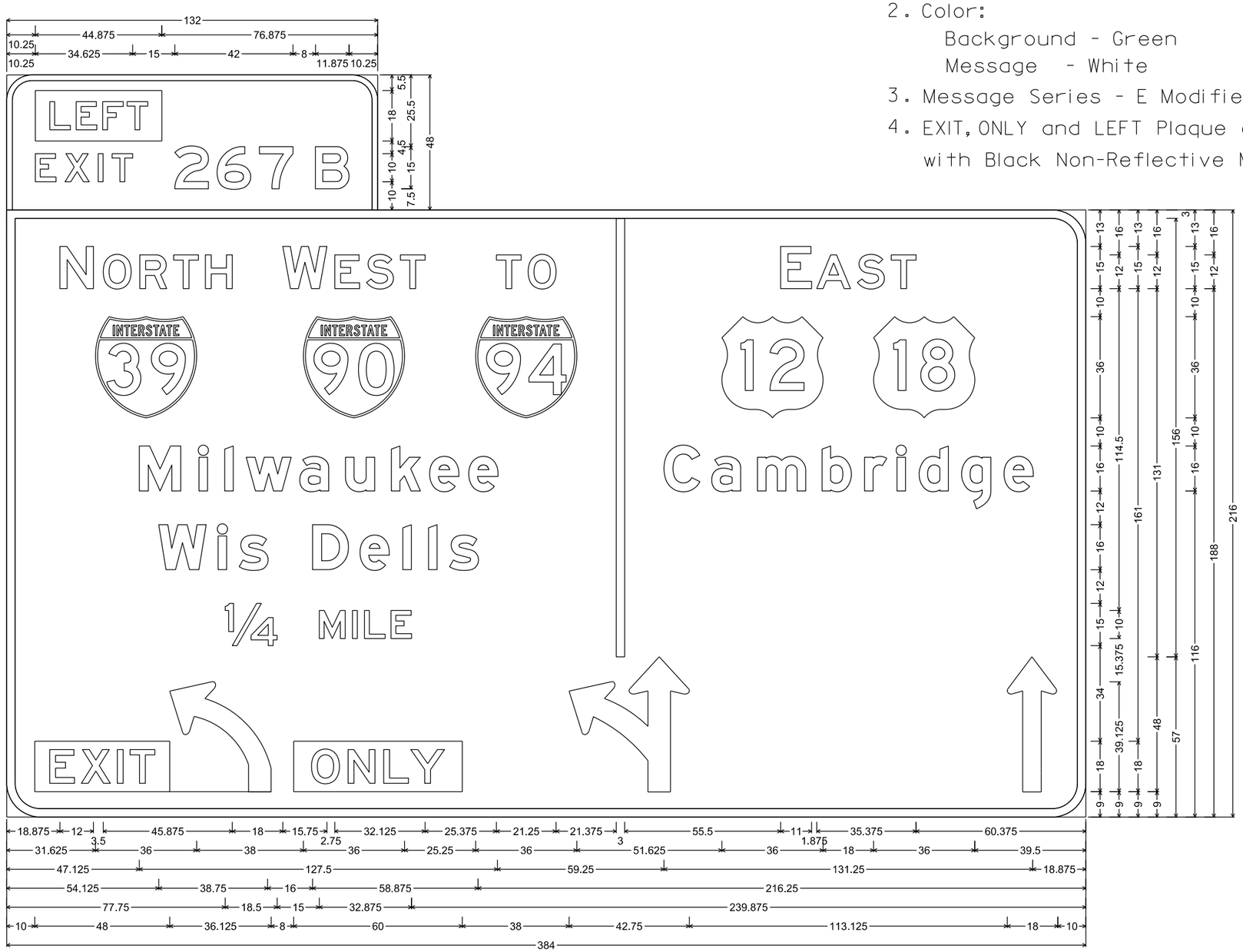


E1-5BP; 9.000" Radius, 2.000" Border, White on Green; Rectangle Yellow
E1-5P; 9.000" Radius, 2.000" Border
E7-2; 12.000" Radius, 3.000" Border

PROJECT NO: 1206-06-08	HWY: USH 12	COUNTY: DANE	PERMANENT SIGNING	SHEET NO:	E

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT, ONLY and LEFT Plaque on Yellow Type F Reflective Sheeting with Black Non-Reflective Message

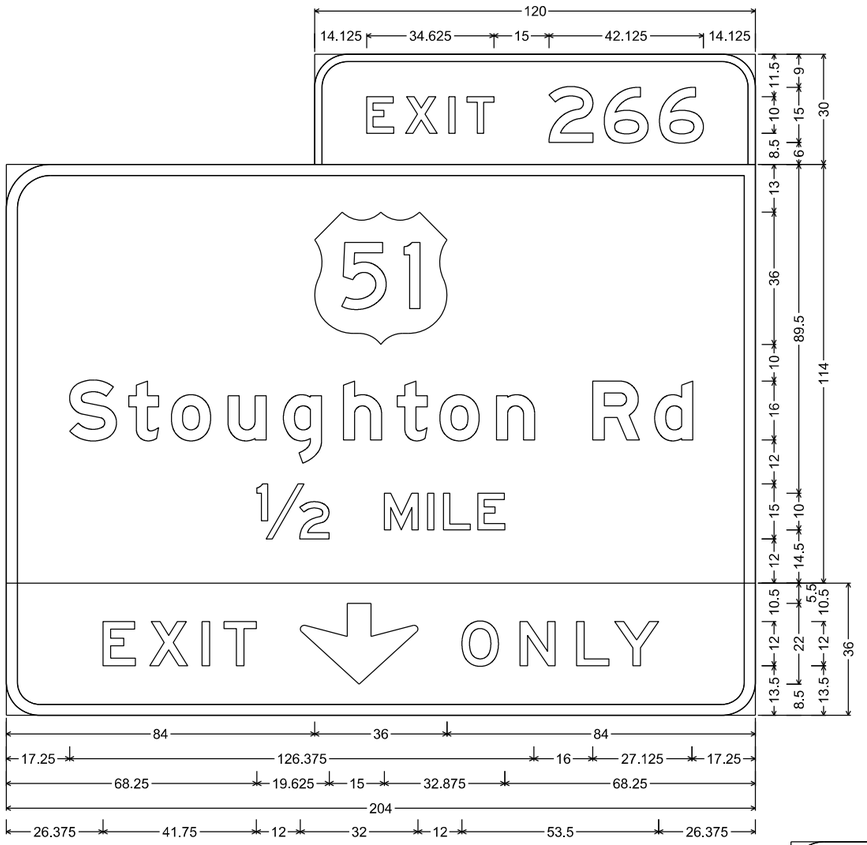


E1-5BP; 9.000" Radius, 2.000" Border, White on Green; Rectangle Yellow
E7-2; 12.000" Radius, 3.000" Border

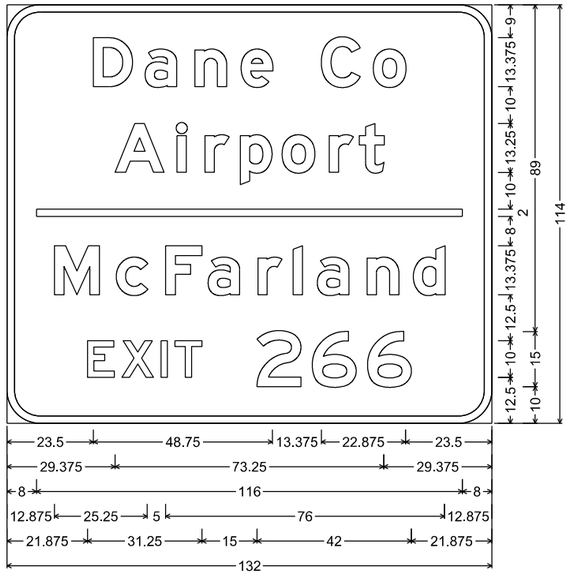
No border, Black on, Fluorescent yellow; "EXIT", E;

No border, Black on, Fluorescent yellow; "ONLY", E;

PROJECT NO: 1206-06-08	HWY: USH 12	COUNTY: DANE	PERMANENT SIGNING	SHEET NO:	E



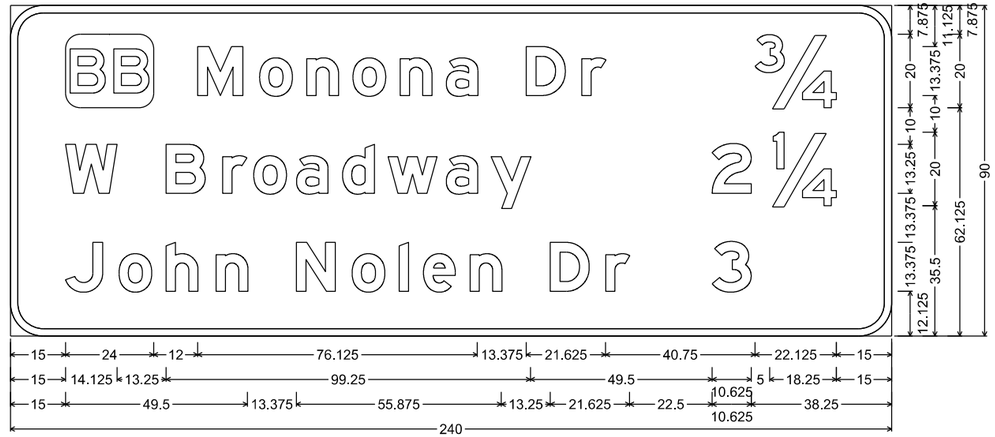
E1-5P; 9.000" Radius, 2.000" Border
E6-51; 12.000" Radius, 3.000" Border
E11-1; 9.000" Radius, 3.000" Border, Black on Yellow



E3-1; 9.000" Radius, 2.000" Border

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT ONLY Panel on Yellow Type F Reflective Sheeting with Black Non-Reflective Message

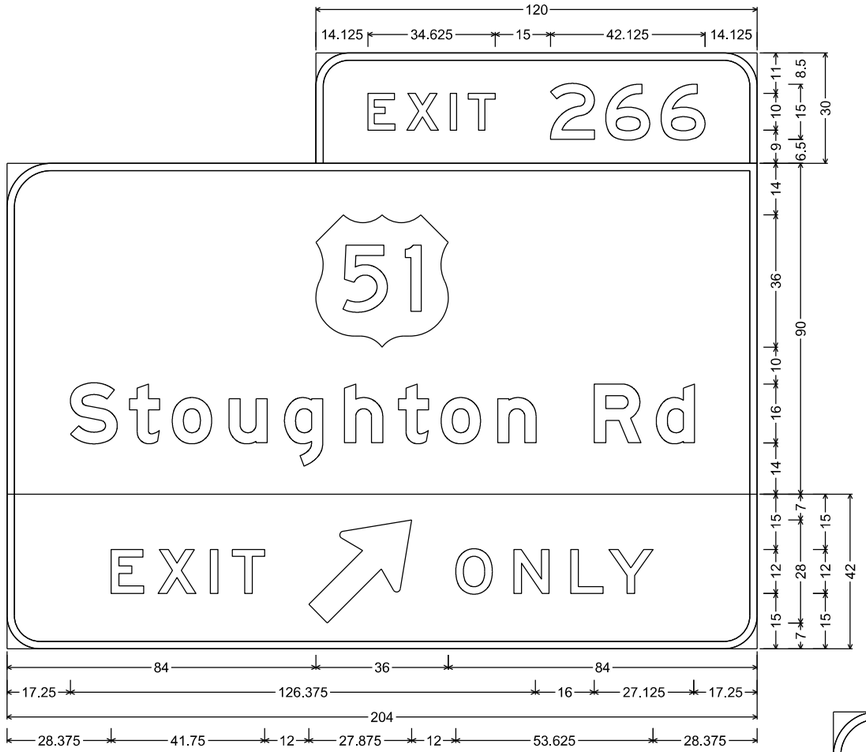


E8-1; 9.000" Radius, 2.000" Border

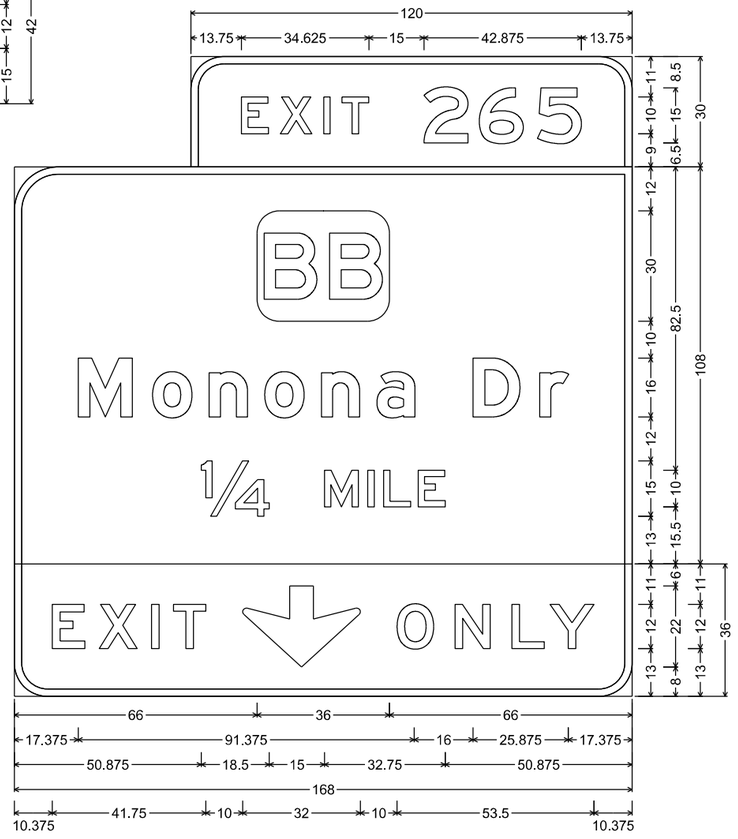
PROJECT NO: 1206-06-08	HWY: USH 12	COUNTY: DANE	PERMANENT SIGNING	SHEET NO:	E

NOTES

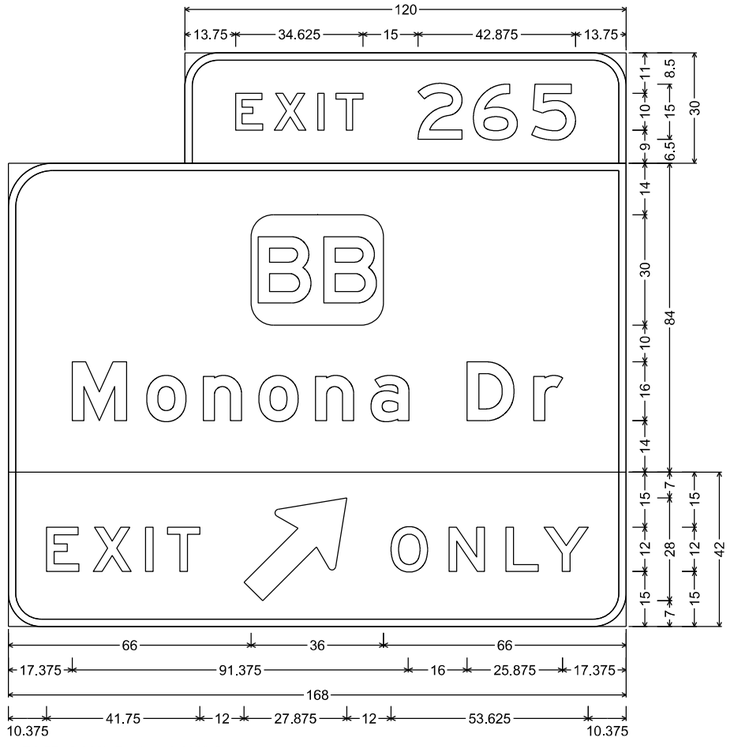
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT ONLY Panel on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



E1-5P; 9.000" Radius, 2.000" Border
E6-1; 12.000" Radius, 2.000" Border
E11-1D; 9.000" Radius, 2.000" Border, Black on Yellow



E1-5P; 9.000" Radius, 2.000" Border
E6-51; 12.000" Radius, 2.000" Border
E11-1; 9.000" Radius, 2.000" Border, Black on Yellow

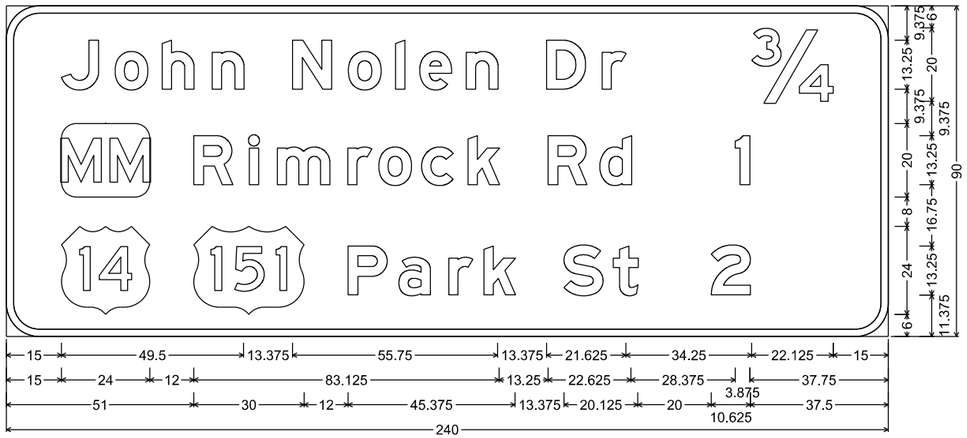


E1-5P; 9.000" Radius, 2.000" Border
E6-1; 12.000" Radius, 2.000" Border
E11-1D; 9.000" Radius, 2.000" Border, Black on Yellow

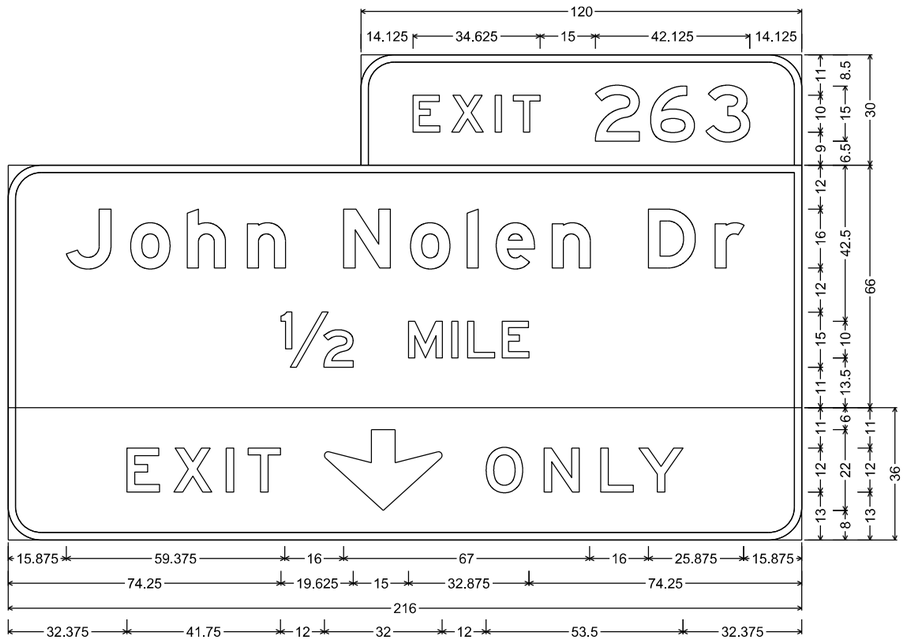
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PROJECT NO: 1206-06-08	HWY: USH 12	COUNTY: DANE	PERMANENT SIGNING	SHEET NO:	E



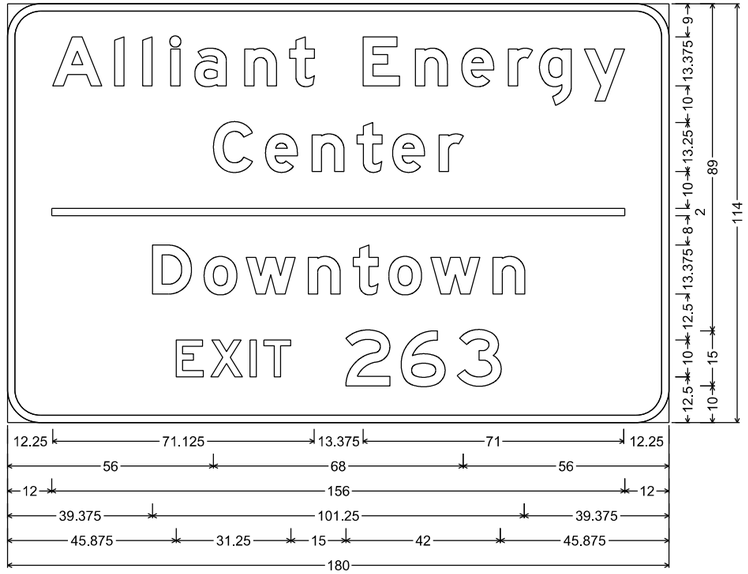
E8-1; 9.000" Radius, 2.000" Border



E1-5P; 9.000" Radius, 2.000" Border
E6-51; 9.000" Radius, 2.000" Border
E11-1; 9.000" Radius, 2.000" Border, Black on Yellow

NOTES

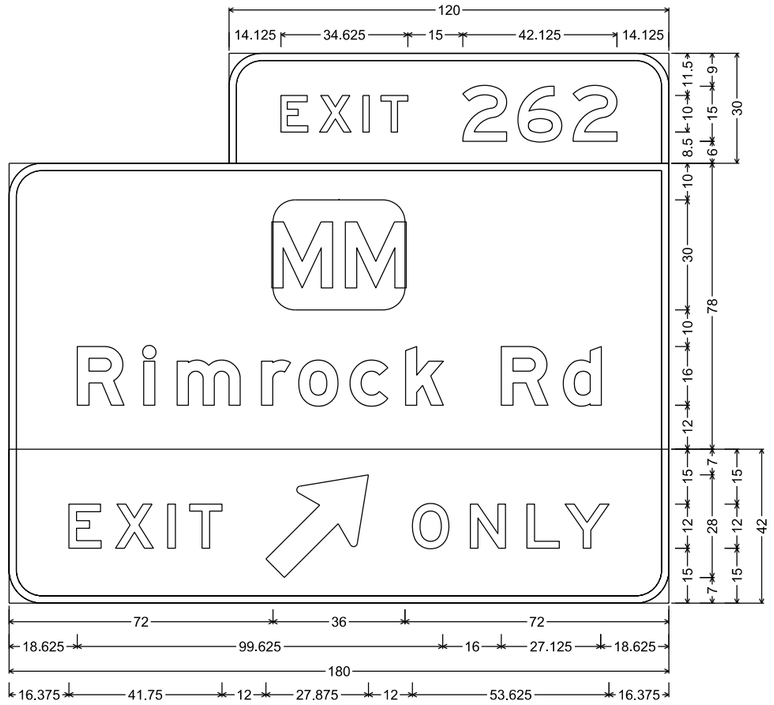
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT ONLY Panel on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



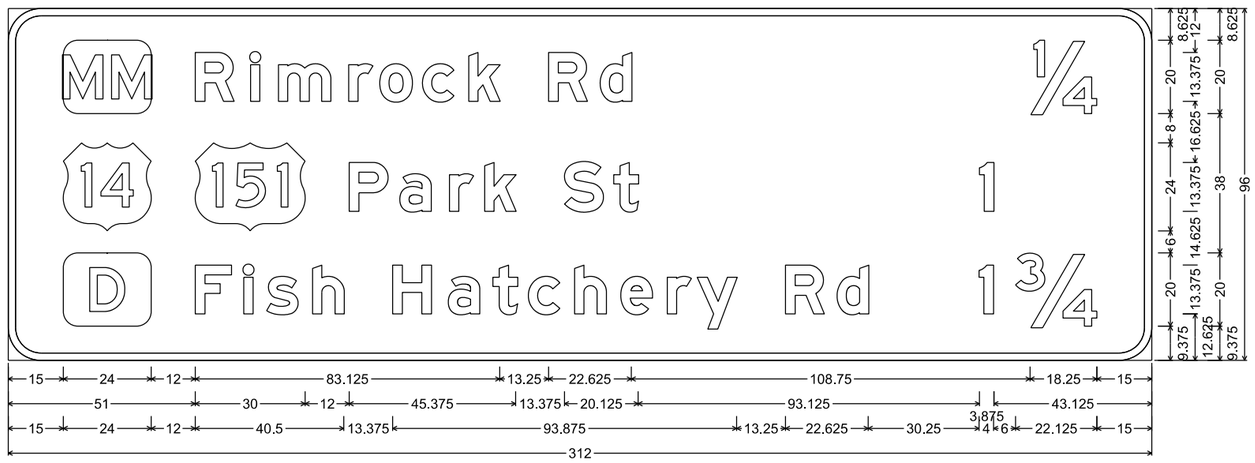
E3-1; 9.000" Radius, 2.000" Border

NOTES

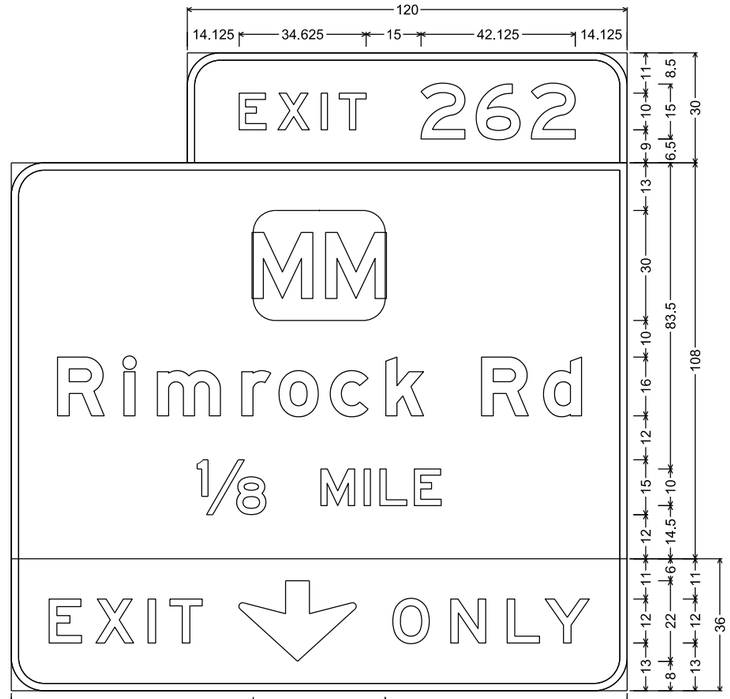
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT ONLY Panel on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



E1-5P; 9.000" Radius, 2.000" Border,
E6-1;12.000" Radius, 2.000" Border,
E11-1D; 9.000" Radius, 2.000" Border, Black on Yellow



E8-1; 9.000" Radius, 2.000" Border



E1-5P; 9.000" Radius, 2.000" Border
E6-51;9.000" Radius, 2.000" Border
E11-1; 9.000" Radius, 2.000" Border, Black on Yellow

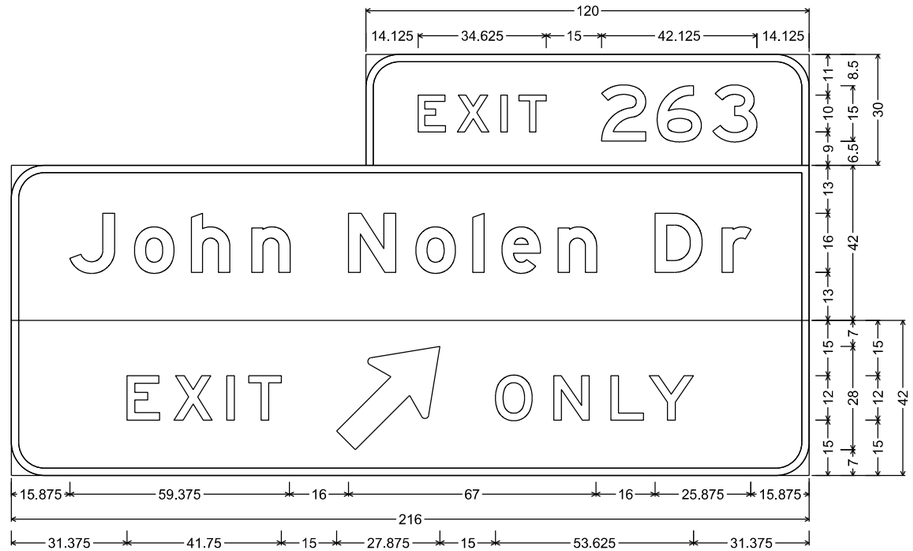
PROJECT NO:1206-06-08	HWY: USH 12	COUNTY:DANE	PERMANENT SIGNING	SHEET NO:	E



E1-5P; 9.000" Radius, 2.000" Border
E6-51; 12.000" Radius, 3.000" Border
E11-1; 9.000" Radius, 3.000" Border, Black on Yellow

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT ONLY Panel on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



E1-5P; 9.000" Radius, 2.000" Border
E6-1; 9.000" Radius, 2.000" Border
E11-1D; 9.000" Radius, 2.000" Border, Black on Yellow

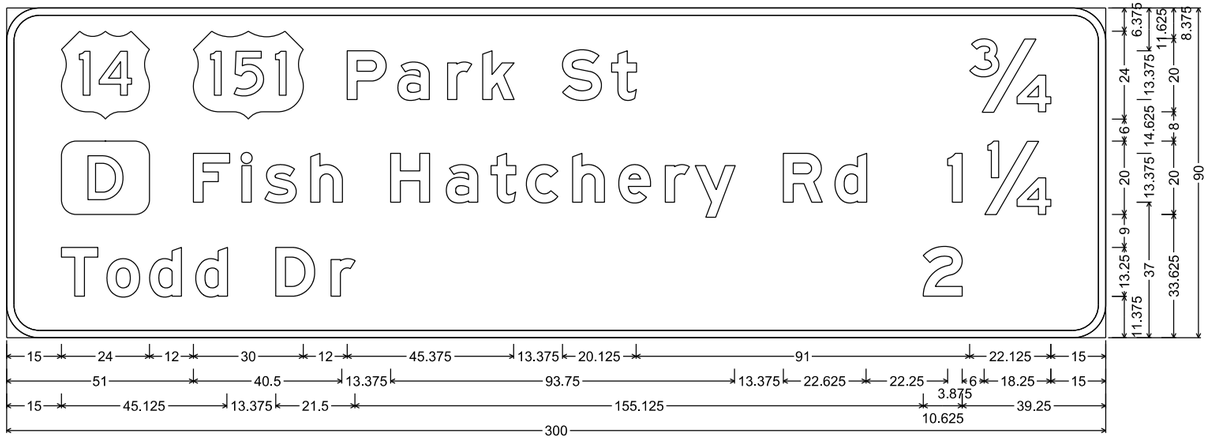
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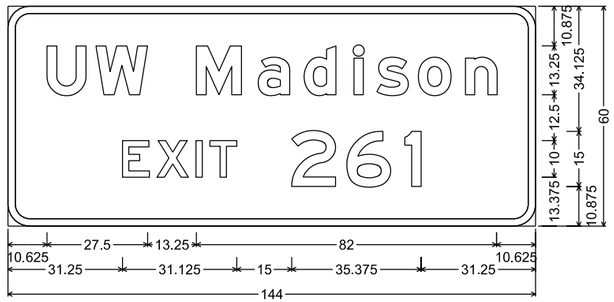
PROJECT NO: 1206-06-08	HWY: USH 12	COUNTY: DANE	PERMANENT SIGNING	SHEET NO:	E

NOTES

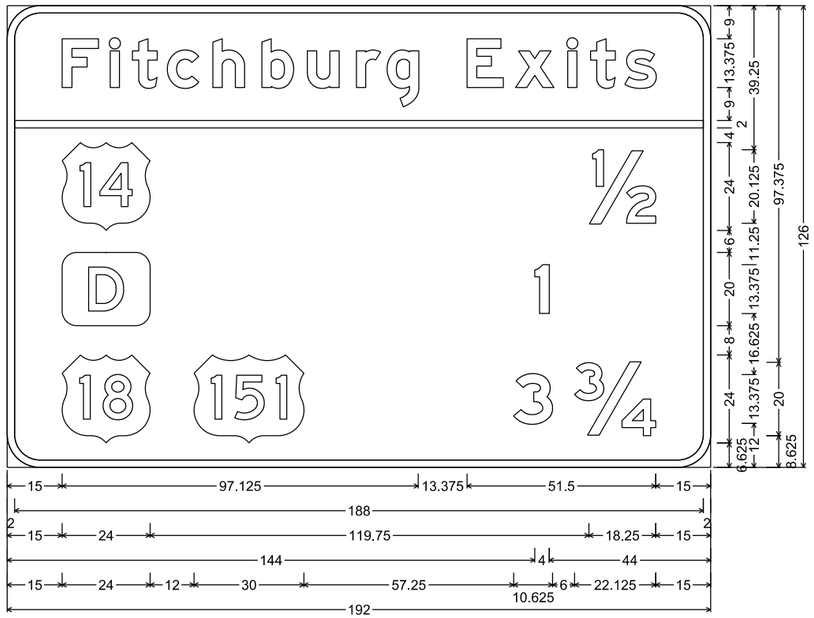
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E



E8-1; 9.000" Radius, 2.000" Border



E3-1; 6.000" Radius, 2.000" Border

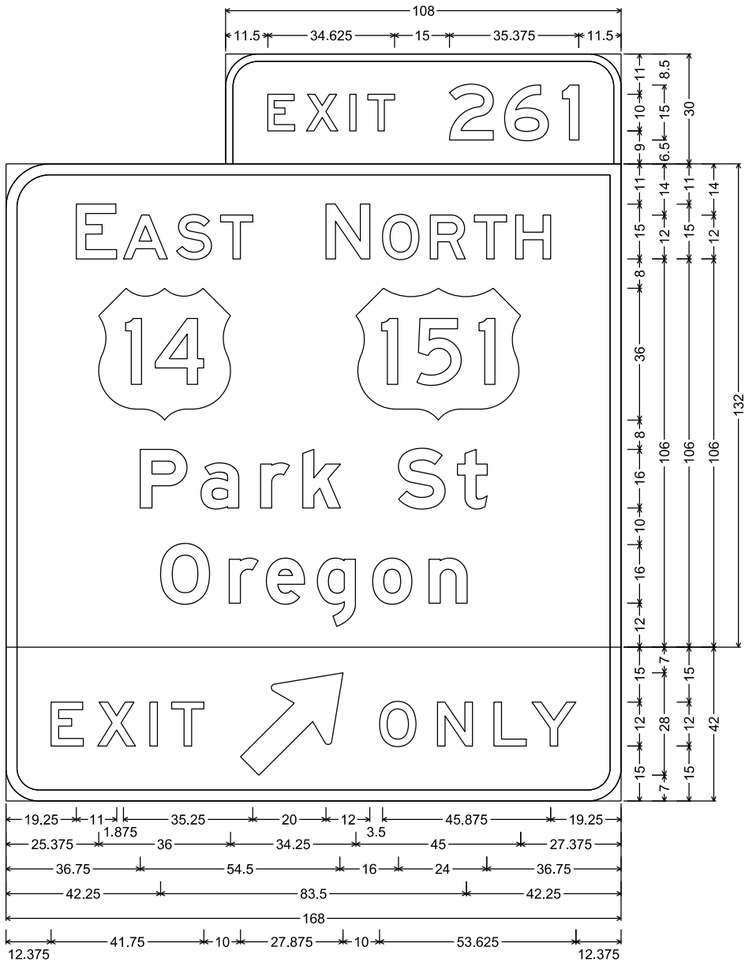


E8-1A; 9.000" Radius, 2.000" Border

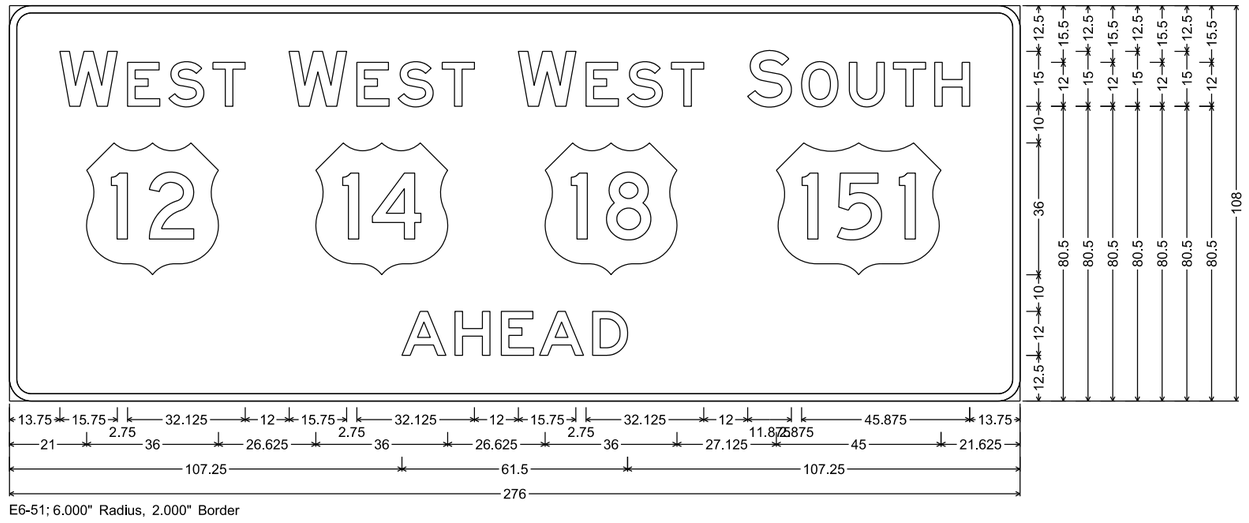
PROJECT NO: 1206-06-08	HWY: USH 12	COUNTY: DANE	PERMANENT SIGNING	SHEET NO:	E

NOTES

1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT ONLY Panel on Yellow Type F Reflective Sheeting
   with Black Non-Reflective Message



E1-5P; 9.000" Radius, 2.000" Border
E6-1; 12.000" Radius, 3.000" Border
E11-1D; 9.000" Radius, 3.000" Border, Black on Yellow

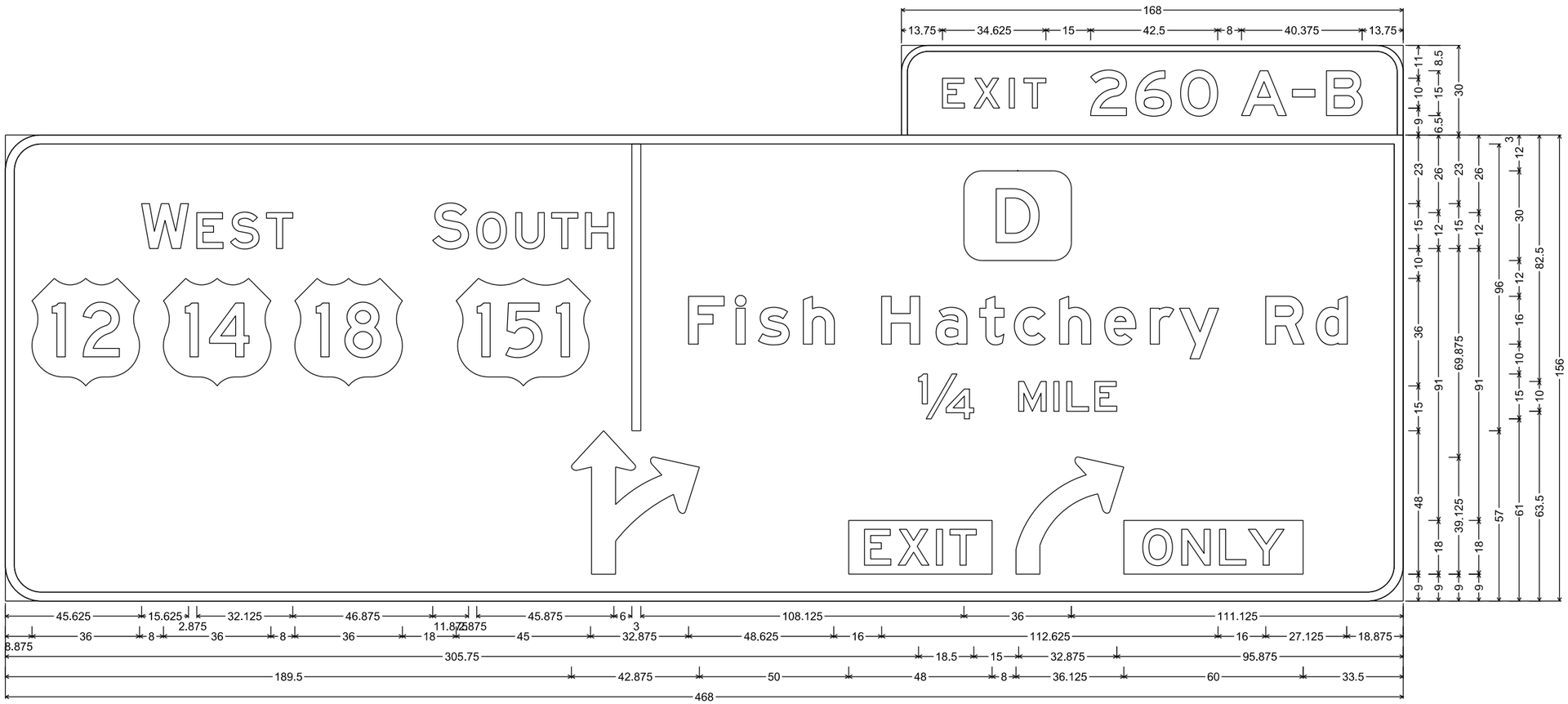


E6-51; 6.000" Radius, 2.000" Border

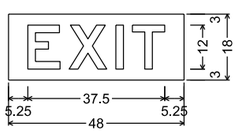
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NOTES

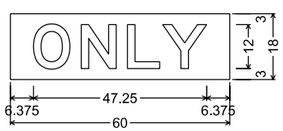
1. All Signs Type I - Type SH Reflective
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all CAP words Series E
4. EXIT and ONLY Plaque on Yellow Type F Reflective Sheeting with Black Non-Reflective Message



E1-5P; 9.000" Radius, 2.000" Border
E7-2; 12.000" Radius, 3.000" Border



No border, Black on, Fluorescent yellow;
"EXIT", E;

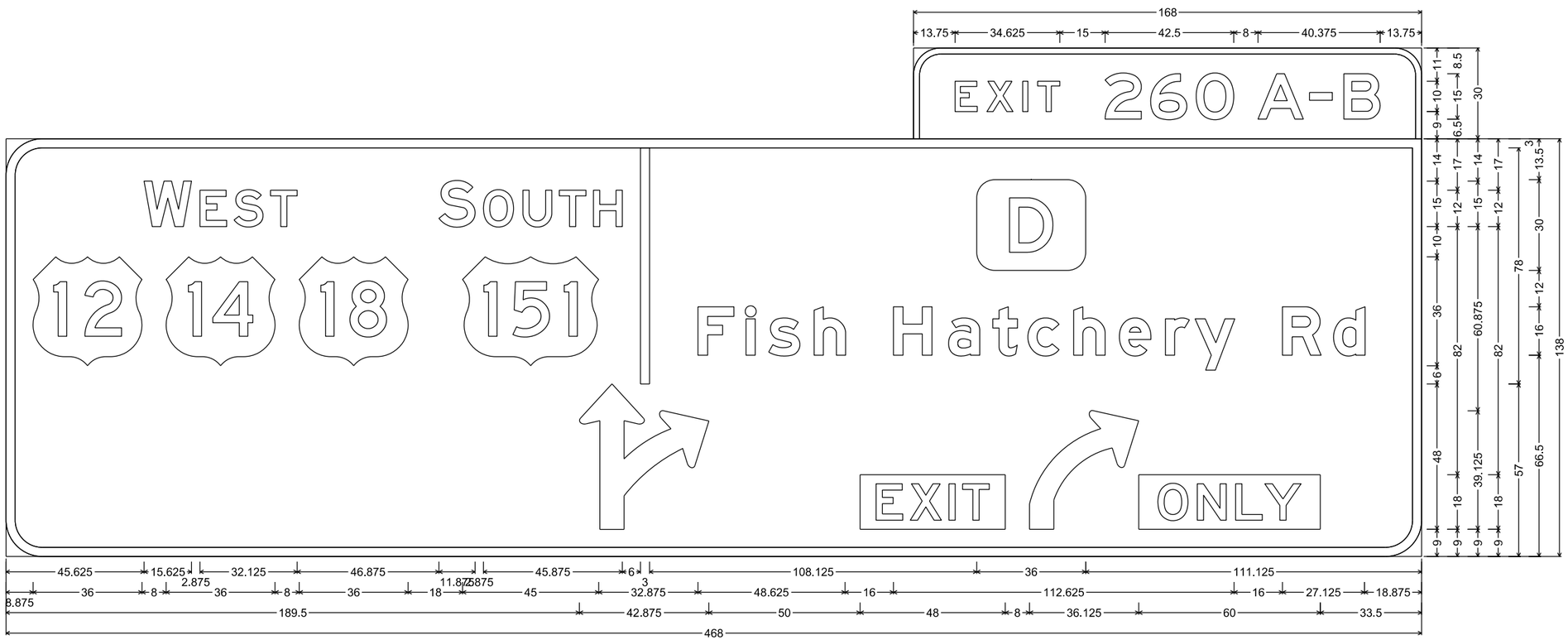


No border, Black on, Fluorescent yellow;
"ONLY", E;

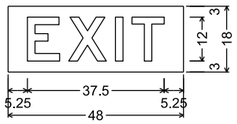
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NOTES

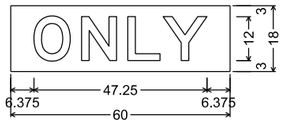
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E1-5P; 9.000" Radius, 2.000" Border
E7-2; 12.000" Radius, 3.000" Border

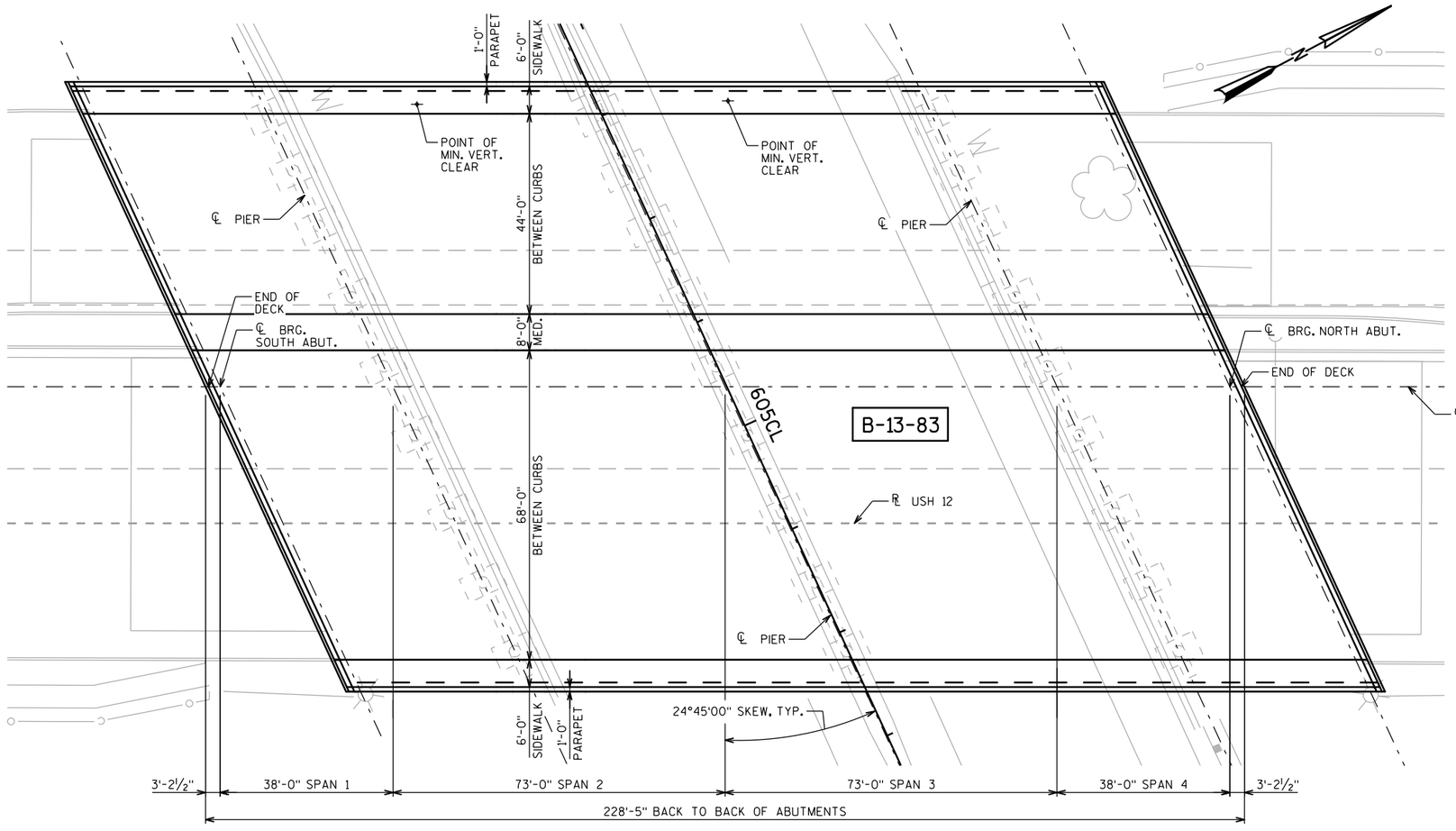


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"EXIT", E;



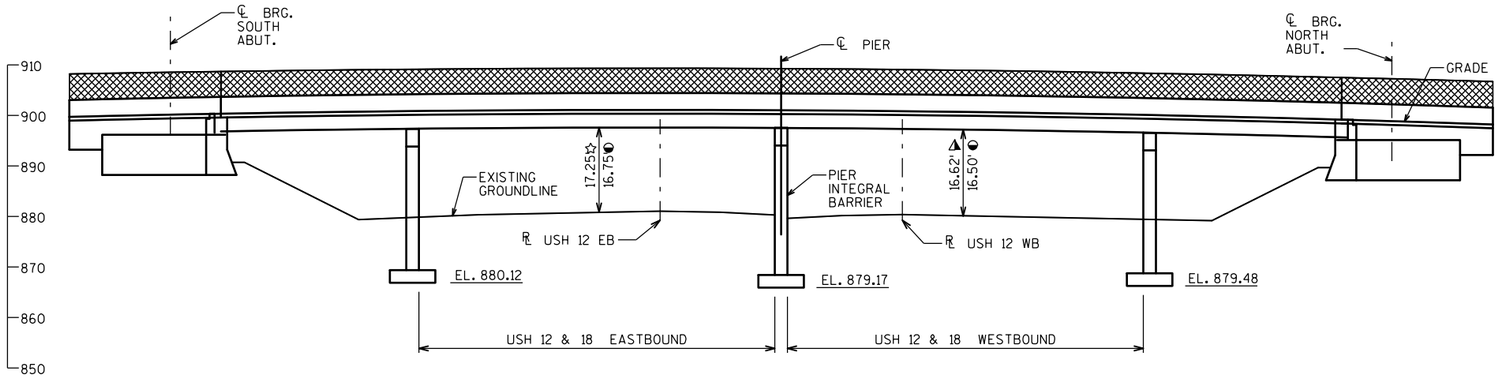
No border, Black on, Fluorescent yellow;
"ONLY", E;

PROJECT NO: 1206-06-08	HWY: USH 12	COUNTY: DANE	PERMANENT SIGNING	SHEET NO:	E



PLAN

4-SPAN - STEEL GIRDERS



ELEVATION

(LOOKING WEST)

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
502.0100	CONCRETE MASONRY BRIDGES	CY	
502.3210	PIGMENTED SURFACE SEALER	SY	
502.4106	ADHESIVE ANCHORS 3/4-INCH	EACH	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	
509.1500	CONCRETE SURFACE REPAIR	SF	
	NON-BID ITEMS		
	PREFORMED JOINT FILLER	SIZE	
	POLYETHYLENE SHEETING		

ALL BID ITEMS ARE CATEGORY XXXX

LEGEND

→ TRAFFIC DIRECTION

◑ LOCATION PER EXISTING PLANS AND MINIMUM CLEARANCE TAKEN FROM HSI SYSTEM 2/12/2019.

☆ LOCATION PER EXISTING PLANS AND REVISED MINIMUM CLEARANCE RESULTING FROM 2" HMA ASPHALT OVERLAY ON USH 12

◭ LOCATION PER EXISTING PLANS AND REVISED MINIMUM CLEARANCE RESULTING FROM 4" HMA ASPHALT OVERLAY ON USH 12

LIST OF DRAWINGS

1. GENERAL PLAN, ELEVATION & QUANTITIES
2. GENERAL NOTES & 56-INCH CONCRETE INTEGRAL BARRIER
3. INTEGRAL BARRIER DETAILS

DESIGN DATA

MATERIAL PROPERTIES

CONCRETE MASONRY ..... f'c = 4,000 psi
BAR STEEL REINFORCEMENT ..... fy = 60,000 psi

TRAFFIC DATA

USH 12/18 EB & WB

A.D.T. = 118,500 (2017)
R.D.S. = 60 MPH

SOUTH TOWNE DR.

A.D.T. = 50,700 (2009)
R.D.S. = 45 MPH

STATE PROJECT NUMBER

1206-06-79

1078 PLANS

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK (608) 261-0261
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

HNTB (414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-13-83

FISH HATCHERY RD OVER USH 12 & 18

COUNTY	TOWN/CITY/VILLAGE
DANE	MADISON

DESIGN SPEC.
REHABILITATION N/A

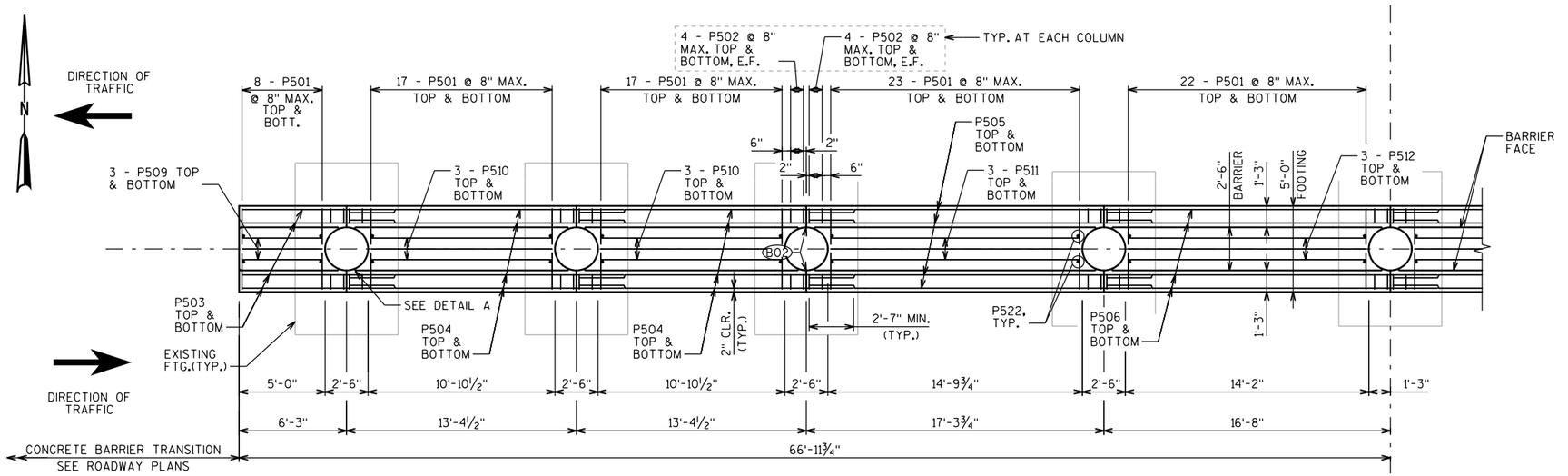
DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JTE		JTE	

SHEET 1 OF 4

8

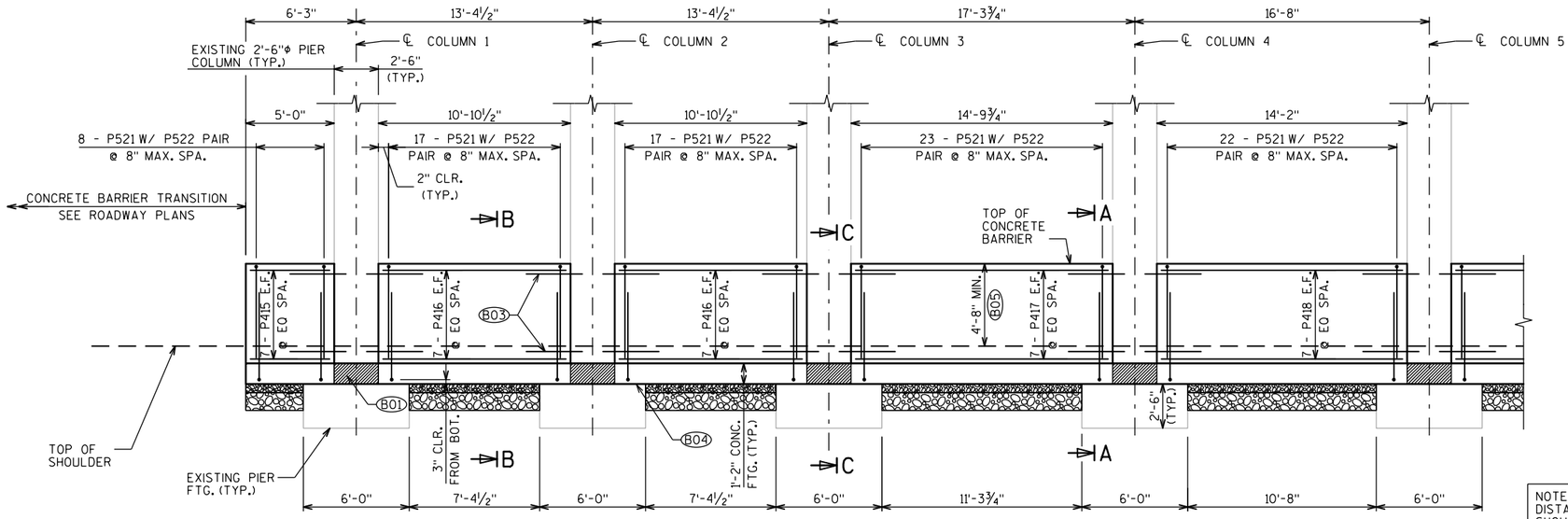
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STATE PROJECT NUMBER
1206-06-79



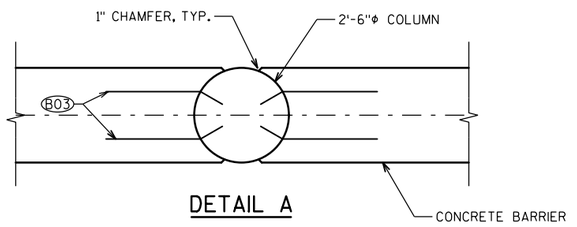
PLAN

(SHOWING FOOTING REINFORCEMENT ONLY)



ELEVATION

(WEST PIER, LOOKING NORTH SHOWN)



DETAIL A

LEGEND

E.F.	EACH FACE
B01	PLACE ½" FILLER BETWEEN COLUMN AND CONCRETE FOOTING (TYP.)
B02	OPTIONAL CONSTRUCTION JOINTS IN FOOTINGS PLACED ALONG ℄ OF COLUMN. IF USED LAP LONGITUDINAL REINFORCEMENT 2'-7" IN ADJACENT POUR.
B03	ADHESIVE ANCHORS NO. 6 BARS, EMBED 8" IN CONCRETE (TYP.)
B04	PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE TOP OF THE EXISTING PIER FOOTING BEFORE PLACING THE BARRIER FOOTING (TYP.)

LEGEND CONT.

B05	4'-8" FROM TOP OF SHOULDER WB
	BASE AGGREGATE DENSE 1¼"
	SELECT CRUSHED MATERIAL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS AND ELEVATIONS OF THE EXISTING STRUCTURE SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD).

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

ALL EXISTING COLUMNS EXCEPT COLUMN 4 HAVE EXISTING FIBER WRAP REPAIRS. REMOVE THE EXISTING ROADWAY BARRIERS ADJACENT TO PIER COLUMNS. COMPLETE ANY NEEDED CONCRETE SURFACE REPAIRS TO COLUMN 4 AND THEN FIBER WRAP THE COLUMN TO THE LIMITS AS SHOWN ON THIS PLAN SHEET. PRIOR TO PLACING THE INTEGRAL BARRIER, COMPLETE ANY ADDITIONAL CONCRETE SURFACE REPAIRS AND EXTEND THE FIBER WRAP REPAIR LIMITS ON THE OTHER COLUMNS IF THEY DO NOT EXTEND TO PROPOSED FINISHED GRADE. IF ADDITIONAL FIBER WRAPPING IS REQUIRED, EXTEND THE LIMITS TO 1'-0" MINIMUM BELOW PROPOSED FINISHED GRADE.

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES FOR THESE BID ITEMS ARE APPROXIMATE.
- FIBER WRAP REINFORCING NON-STRUCTURAL

"CONCRETE SURFACE REPAIR" AREAS AS SHOWN ON IN THE QUANTITIES TABLE ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.

APPLY "PIGMENTED SURFACE SEALER" TO THE EXPOSED FACES OF THE NEW INTEGRAL CONCRETE BARRIER AND TO THE EXPOSED VERTICAL FACES OF THE PIER COLUMNS FROM THE TOP OF THE INTEGRAL BARRIER TO THE TOP OF THE SHOULDER.

UNDER THE BID ITEM "ADHESIVE ANCHOR ¾-INCH" ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

COORDINATE PLACEMENT OF DELINEATORS AND BRACKETS WITH ROADWAY. DELINEATORS AND BRACKETS TO BE INCLUDED WITH ROADWAY BID ITEMS AND TO BE SPACED AT 50'-0" MAX. PLACEMENT TO BE OFFSET A MINIMUM OF 10'-0" FROM THE EDGE OF PIER COLUMNS.

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

BARRIER AND FOOTING SHALL CONSIST OF CAST IN PLACE CONSTRUCTION. NO JOINTS SHALL BE ALLOWED IN THE BARRIER. CONSTRUCTION JOINTS WILL ONLY BE ALLOWED IN THE FOOTING AT LOCATIONS SHOWN IN THE "PLAN VIEW".

DO NOT CUT OR DRILL INTO EXISTING COLUMN BAR STEEL.

ALL REINFORCEMENT SHALL BE EPOXY-COATED.

USE 2-INCH MINIMUM BAR CLEARANCE, EXCEPT AT FOOTINGS PROVIDE 3-INCH BAR CLEARANCE FROM BOTTOM OF FOOTING TO BOTTOM TRANSVERSE REINFORCEMENT.

PROVIDE ¾-INCH BEVEL OR 1-INCH RADIUS ON BARRIER EDGES, TOP AND ENDS.

BASED UPON EXISTING STRUCTURE PLANS, THE EXISTING TOP OF PIER FOOTING IS APPROXIMATELY THE PROPOSED BOTTOM OF BARRIER FOOTING ELEVATION. USE THE EXISTING TOP OF PIER FOOTING ELEVATION AS THE BOTTOM OF BARRIER FOOTING ELEVATION.

NOTE: 56-INCH BARRIER REFERS TO THE DISTANCE FROM THE TOP OF THE SHOULDER TO THE TOP OF THE BARRIER.

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1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-83

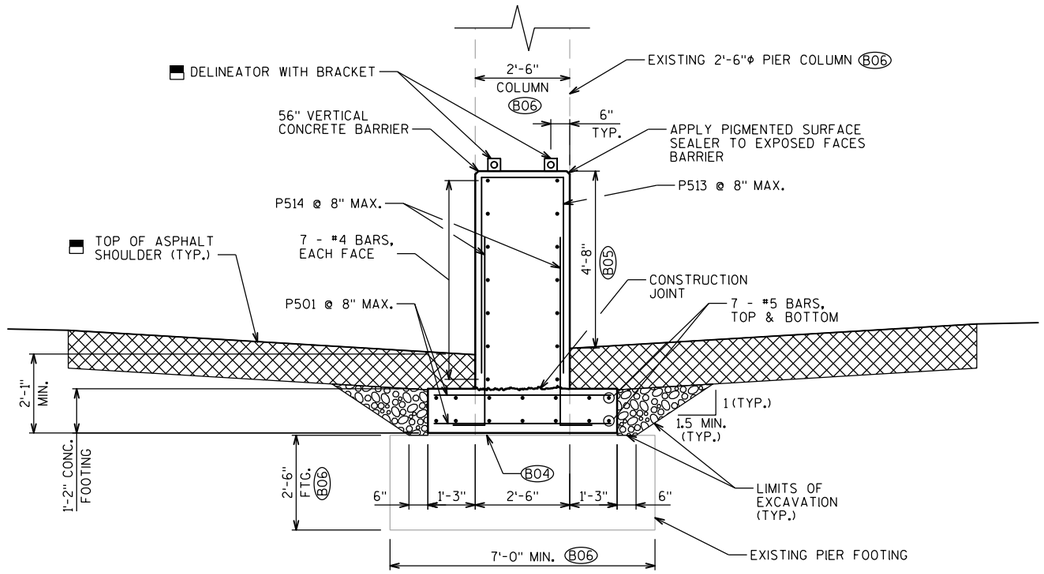
DRAWN BY JTE | PLANS CK'D.

GENERAL NOTES & 56-INCH CONCRETE INTEGRAL BARRIER

SHEET 2 OF 3

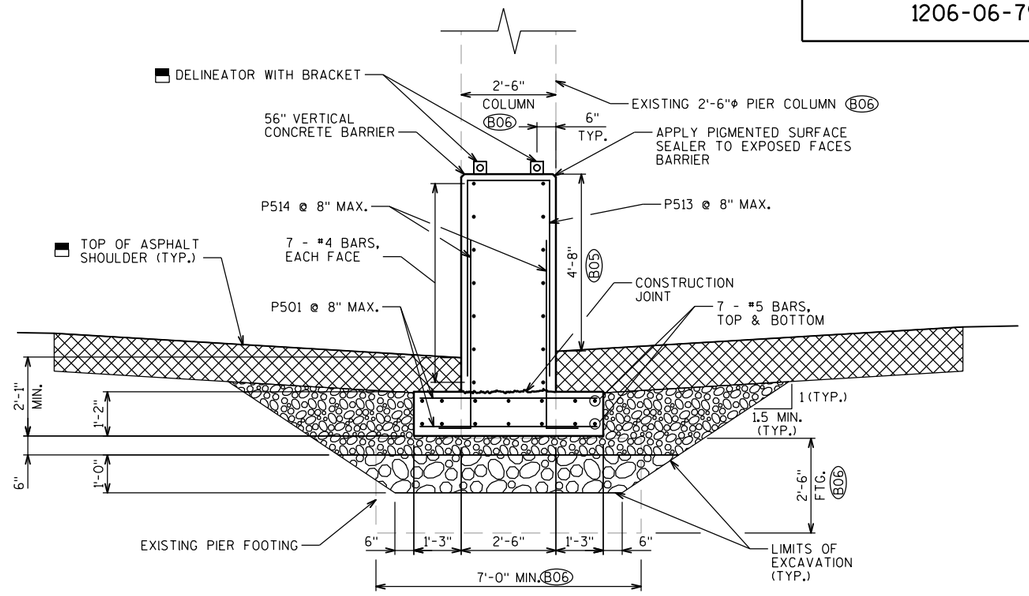
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STATE PROJECT NUMBER
1206-06-79



SECTION A-A

BETWEEN COLUMNS OVER EXISTING FOOTING

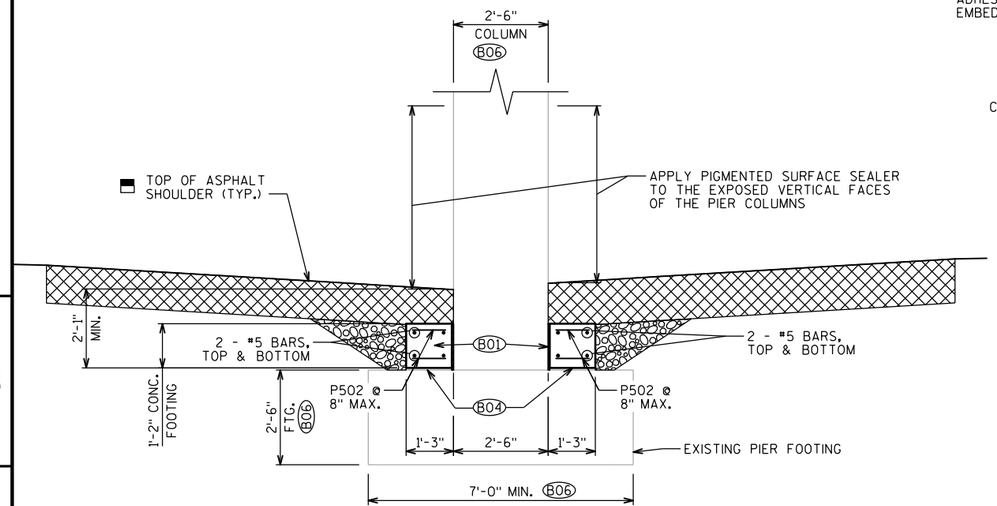


SECTION B-B

BETWEEN COLUMNS AND FOOTINGS

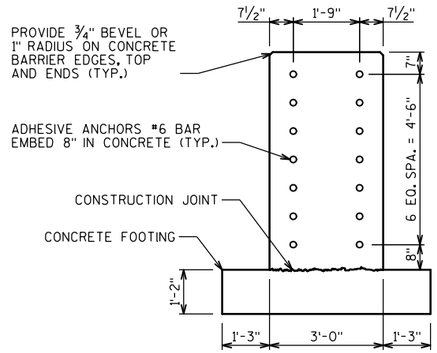
LEGEND

- ⚠ 12" SELECT CRUSHED MATERIAL MAY BE ELIMINATED IF IT IS DETERMINED BY THE ENGINEER THAT THE EXISTING MATERIAL IS COMPACTED GRANULAR MATERIAL.
- NOT A BRIDGE PAY ITEM, SEE ROADWAY PLANS.
- (B01) PLACE ½" FILLER BETWEEN COLUMN AND CONCRETE FOOTING (TYP.)
- (B04) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYENE SHEETS OVER THE TOP OF THE EXISTING PIER FOOTING BEFORE PLACING THE BARRIER FOOTING (TYP.)
- (B05) 4'-8" FROM WB SHOULDER TOP OF SHOULDER.
- (B06) DIMENSION BASED UPON EXISTING BRIDGE PLANS.
- 10" OF CONCRETE WITH HMA OVERLAY. REFER TO ROADWAY PLANS.
- BASE AGGREGATE DENSE 1¼"
- SELECT CRUSHED MATERIAL ⚠

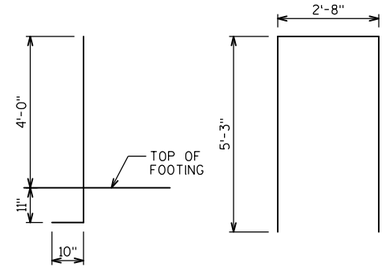


SECTION C-C

THRU COLUMN



ADHESIVE ANCHOR LAYOUT



P522 P521

BAR BENDING DIAGRAM

BAR DIMENSIONS ARE OUT TO OUT OF BAR

BILL OF BARS

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	SERIES	LOCATION
P501	X	158	5'-1"			FOOTING - TRANSVERSE
P502	X	96	0'-10"			FOOTING - TRANSVERSE AT COLUMN
P503	X	16	10'-2"			FOOTING - LONGITUDINAL
P504	X	32	29'-6"			FOOTING - LONGITUDINAL
P505	X	8	8'-9"			FOOTING - LONGITUDINAL
P506	X	24	21'-5"			FOOTING - LONGITUDINAL BETWEEN COLUMNS
P507	X	6	3'-7"			FOOTING - LONGITUDINAL BETWEEN PIERS
P508	X	12	4'-7"			FOOTING - LONGITUDINAL ENDS
P410	X	56	21'-5"			BARRIER - LONGITUDINAL BETWEEN COLUMNS
P411	X	14	3'-7"			BARRIER - LONGITUDINAL BETWEEN PIERS
P412	X	28	4'-7"			BARRIER - LONGITUDINAL ENDS
P513	X	158	12'-11"	X		BARRIER - STIRRUP
P514	X	316	5'-8"	X		BENT BAR FOOTING TO BARRIER
P615	X	168	3'-2"			ADHESIVE ANCHORS

8

8

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-83

DRAWN BY JTE | PLANS CK'D.

INTEGRAL BARRIER DETAILS

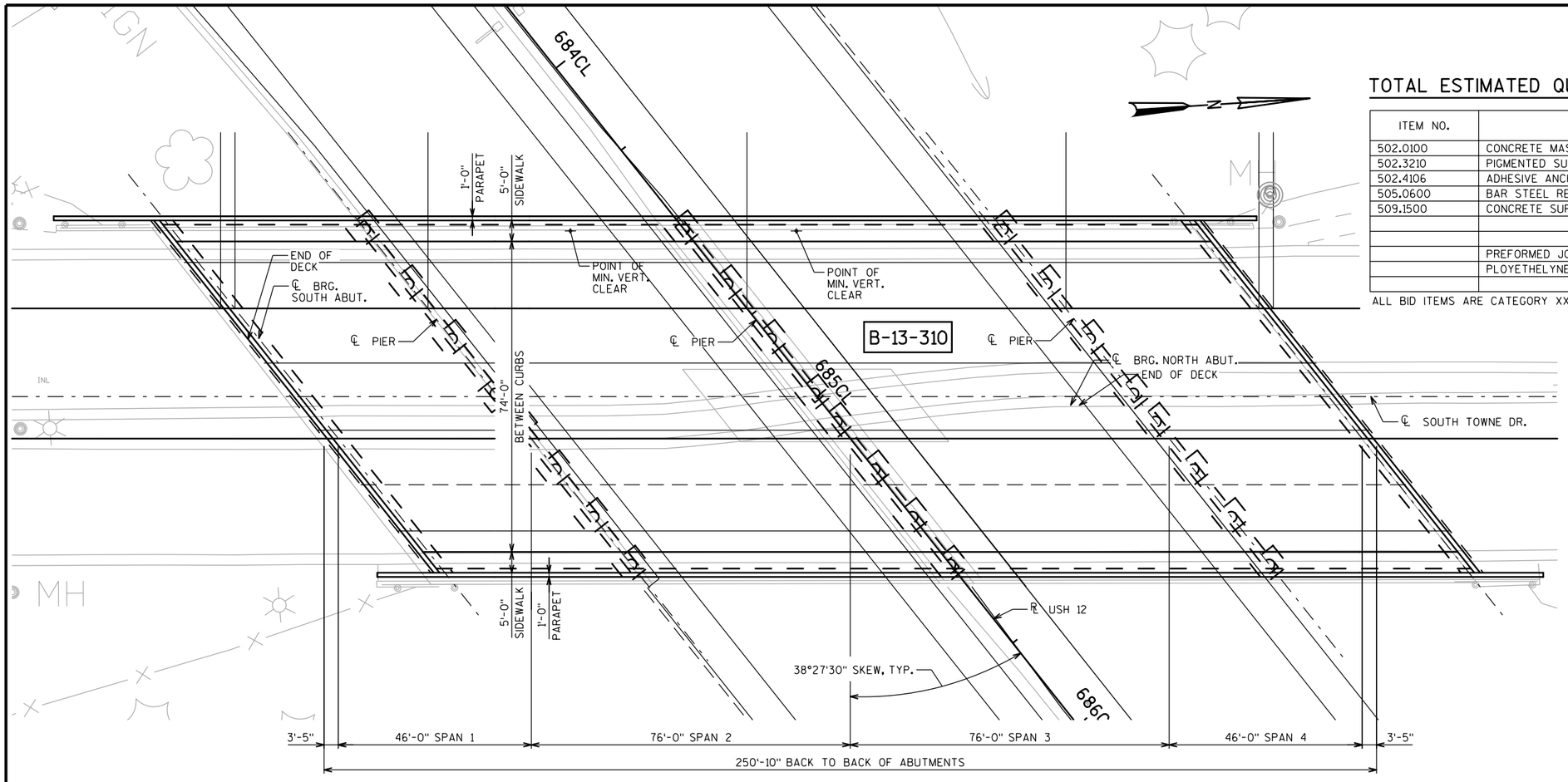
SHEET 4 OF 3

STATE PROJECT NUMBER
1206-06-79

TOTAL ESTIMATED QUANTITIES

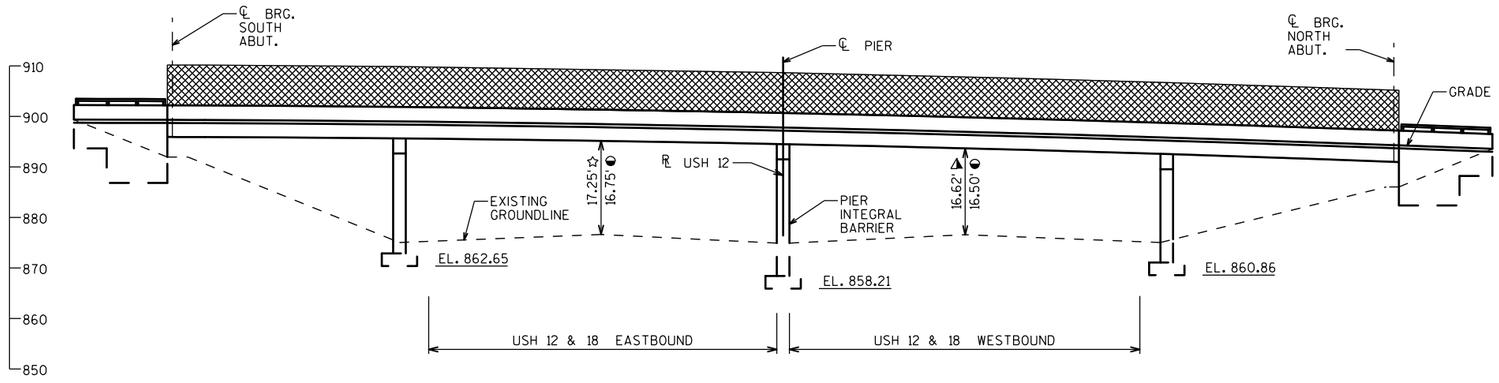
ITEM NO.	BID ITEM	UNIT	TOTAL
502.0100	CONCRETE MASONRY BRIDGES	CY	
502.3210	PIGMENTED SURFACE SEALER	SY	
502.4106	ADHESIVE ANCHORS 3/4-INCH	EACH	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	
509.1500	CONCRETE SURFACE REPAIR	SF	
	NON-BID ITEMS		
	PREFORMED JOINT FILLER	SIZE	
	PLOYETHELYNE SHEETS		

ALL BID ITEMS ARE CATEGORY XXXX



PLAN

4-SPAN - 33" STEEL GIRDERS



ELEVATION

(LOOKING WEST)

LEGEND

→ TRAFFIC DIRECTION

◑ LOCATION PER EXISTING PLANS AND MINIMUM CLEARANCE TAKEN FROM HSI SYSTEM 2/12/2019.

☆ LOCATION PER EXISTING PLANS AND REVISED MINIMUM CLEARANCE RESULTING FROM 2" HMA ASPHALT OVERLAY ON USH 12

◭ LOCATION PER EXISTING PLANs AND REVISED MINIMUM CLEARANCE RESULTING FROM 4" HMA ASPHALT OVERLAY ON USH 12

LIST OF DRAWINGS

1. GENERAL PLAN, ELEVATION & QUANTITIES
2. GENERAL NOTES & 56-INCH CONCRETE INTEGRAL BARRIER
3. INTEGRAL BARRIER DETAILS

DESIGN DATA

MATERIAL PROPERTIES

CONCRETE MASONRY ..... f'c = 4,000 psi
BAR STEEL REINFORCEMENT ..... fy = 60,000 psi

TRAFFIC DATA

USH 12/18 EB & WB

A.D.T. = 118,500 (2017)
R.D.S. = 60 MPH

SOUTH TOWNE DR.

A.D.T. = 50,700 (2009)
R.D.S. = 45 MPH

1078 PLANS

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK (608) 261-0261
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

HNTB (414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-13-310

RIMROCK RD. OVER USH 12/18

COUNTY	CITY
DANE	MADISON

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JTE	HDA	JTE	HDA

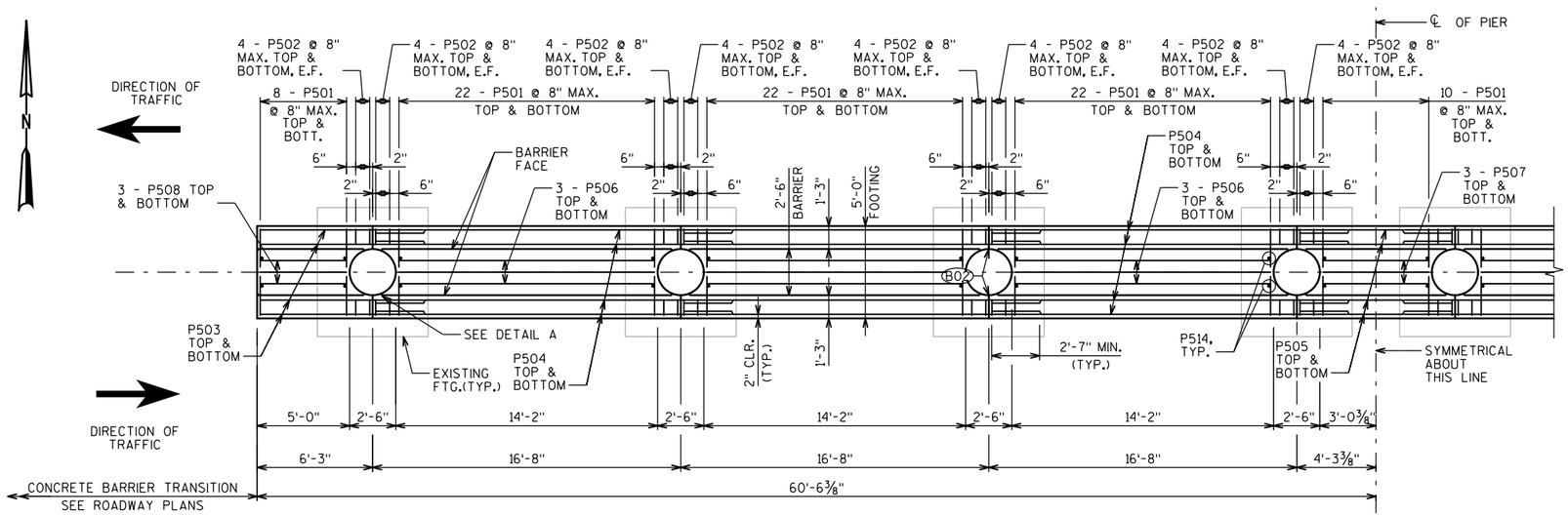
GENERAL PLAN, ELEVATION & QUANTITIES

SHEET 1 OF 3

8

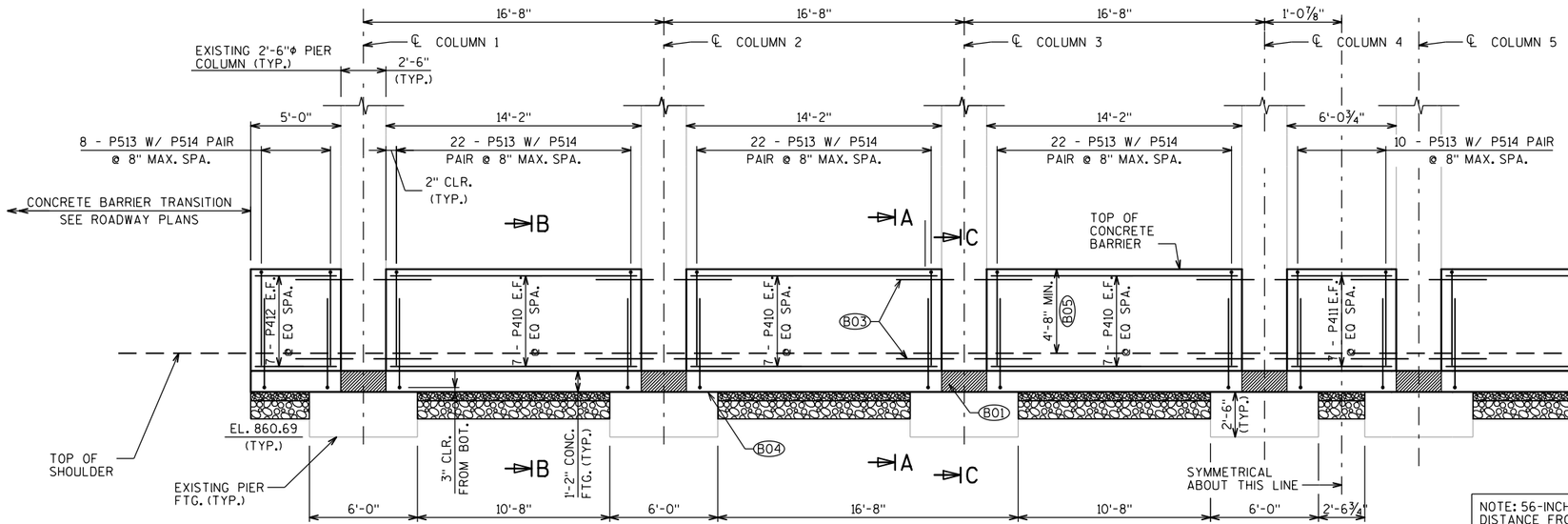
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STATE PROJECT NUMBER
1206-06-79



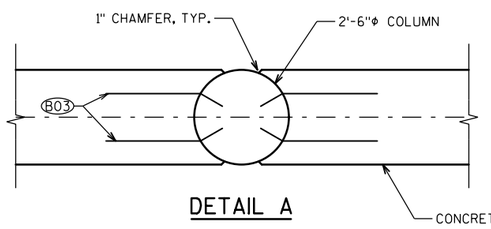
PLAN

(SHOWING FOOTING REINFORCEMENT ONLY)



ELEVATION

(WEST PIER, LOOKING NORTH SHOWN)



DETAIL A

LEGEND

E.F.	EACH FACE
B01	PLACE ½" FILLER BETWEEN COLUMN AND CONCRETE FOOTING (TYP.)
B02	OPTIONAL CONSTRUCTION JOINTS IN FOOTINGS PLACED ALONG ℄ OF COLUMN. IF USED LAP LONGITUDINAL REINFORCEMENT 2'-7" IN ADJACENT POUR.
B03	ADHESIVE ANCHORS NO. 6 BARS, EMBED 8" IN CONCRETE (TYP.)
B04	PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE TOP OF THE EXISTING PIER FOOTING BEFORE PLACING THE BARRIER FOOTING (TYP.)

LEGEND CONT.

B05	4'-8" FROM TOP OF SHOULDER WB
	BASE AGGREGATE DENSE 1¼"
	SELECT CRUSHED MATERIAL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS AND ELEVATIONS OF THE EXISTING STRUCTURE SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED. ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD).

ALL REINFORCING BARS ARE ENGLISH. THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE. BAR DIMENSIONS ARE OUT TO OUT OF BAR.

ALL EXISTING COLUMNS EXCEPT COLUMN 4 HAVE EXISTING FIBER WRAP REPAIRS. REMOVE THE EXISTING ROADWAY BARRIERS ADJACENT TO PIER COLUMNS. COMPLETE ANY NEEDED CONCRETE SURFACE REPAIRS TO COLUMN 4 AND THEN FIBER WRAP THE COLUMN TO THE LIMITS AS SHOWN ON THIS PLAN SHEET. PRIOR TO PLACING THE INTEGRAL BARRIER, COMPLETE ANY ADDITIONAL CONCRETE SURFACE REPAIRS AND EXTEND THE FIBER WRAP REPAIR LIMITS ON THE OTHER COLUMNS IF THEY DO NOT EXTEND TO PROPOSED FINISHED GRADE. IF ADDITIONAL FIBER WRAPPING IS REQUIRED, EXTEND THE LIMITS TO 1'-0" MINIMUM BELOW PROPOSED FINISHED GRADE.

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES FOR THESE BID ITEMS ARE APPROXIMATE.
- FIBER WRAP REINFORCING NON-STRUCTURAL

"CONCRETE SURFACE REPAIR" AREAS AS SHOWN ON IN THE QUANTITIES TABLE ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.

APPLY "PIGMENTED SURFACE SEALER" TO THE EXPOSED FACES OF THE NEW INTEGRAL CONCRETE BARRIER AND TO THE EXPOSED VERTICAL FACES OF THE PIER COLUMNS FROM THE TOP OF THE INTEGRAL BARRIER TO THE TOP OF THE SHOULDER.

UNDER THE BID ITEM "ADHESIVE ANCHOR ¾-INCH" ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

COORDINATE PLACEMENT OF DELINEATORS AND BRACKETS WITH ROADWAY. DELINEATORS AND BRACKETS TO BE INCLUDED WITH ROADWAY BID ITEMS AND TO BE SPACED AT 50'-0" MAX. PLACEMENT TO BE OFFSET A MINIMUM OF 10'-0" FROM THE EDGE OF PIER COLUMNS.

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

BARRIER AND FOOTING SHALL CONSIST OF CAST IN PLACE CONSTRUCTION. NO JOINTS SHALL BE ALLOWED IN THE BARRIER. CONSTRUCTION JOINTS WILL ONLY BE ALLOWED IN THE FOOTING AT LOCATIONS SHOWN IN THE "PLAN VIEW".

DO NOT CUT OR DRILL INTO EXISTING COLUMN BAR STEEL.

ALL REINFORCEMENT SHALL BE EPOXY-COATED.

USE 2-INCH MINIMUM BAR CLEARANCE, EXCEPT AT FOOTINGS PROVIDE 3-INCH BAR CLEARANCE FROM BOTTOM OF FOOTING TO BOTTOM TRANSVERSE REINFORCEMENT.

PROVIDE ¾-INCH BEVEL OR 1-INCH RADIUS ON BARRIER EDGES, TOP AND ENDS.

BASED UPON EXISTING STRUCTURE PLANS, THE EXISTING TOP OF PIER FOOTING IS APPROXIMATELY THE PROPOSED BOTTOM OF BARRIER FOOTING ELEVATION. USE THE EXISTING TOP OF PIER FOOTING ELEVATION AS THE BOTTOM OF BARRIER FOOTING ELEVATION.

NOTE: 56-INCH BARRIER REFERS TO THE DISTANCE FROM THE TOP OF THE SHOULDER TO THE TOP OF THE BARRIER.

8

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1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

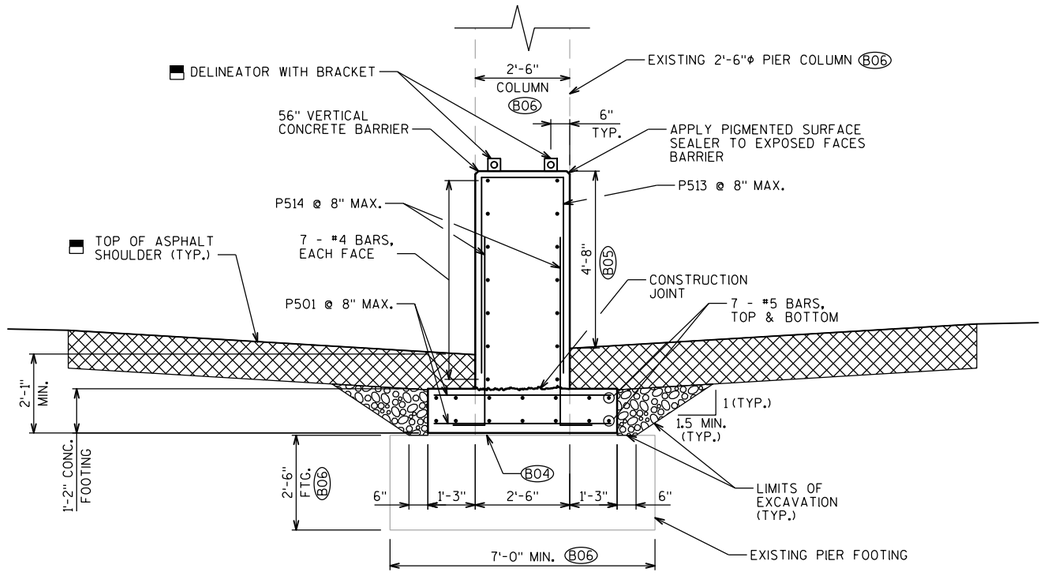
STRUCTURE B-13-310

DRAWN BY JTE | PLANS CK'D. HDA

GENERAL NOTES & 56-INCH CONCRETE INTEGRAL BARRIER

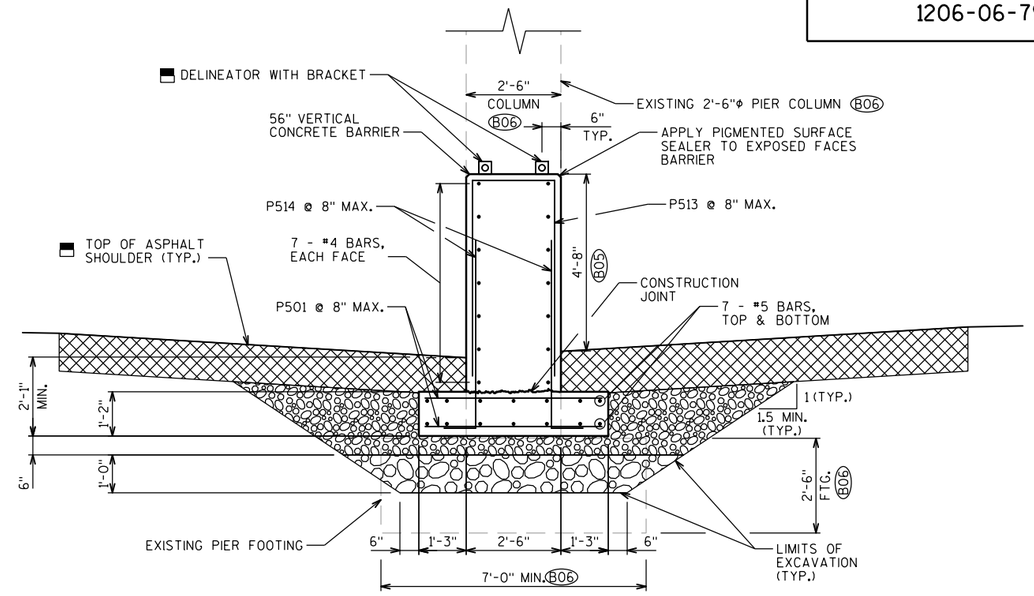
SHEET 2 OF 3

STATE PROJECT NUMBER
1206-06-79



SECTION A-A

BETWEEN COLUMNS OVER EXISTING FOOTING

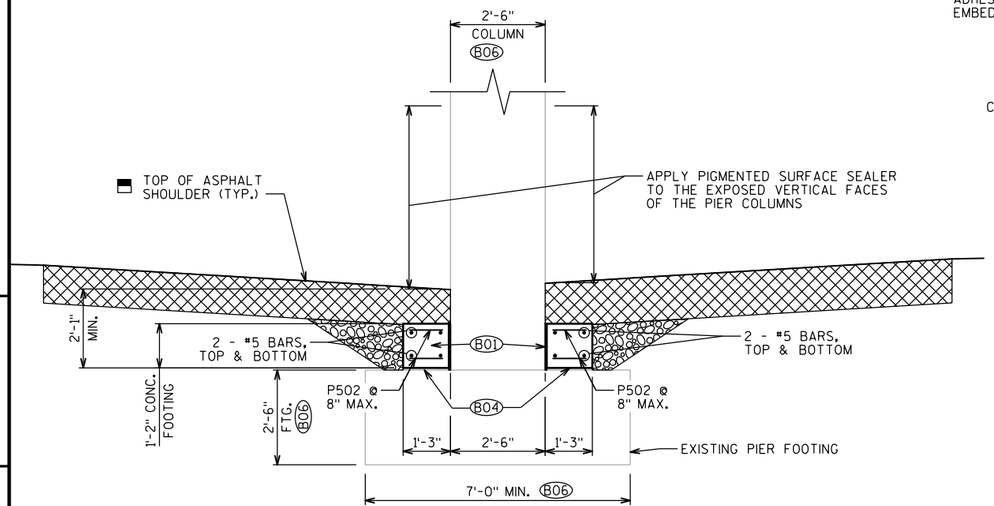


SECTION B-B

BETWEEN COLUMNS AND FOOTINGS

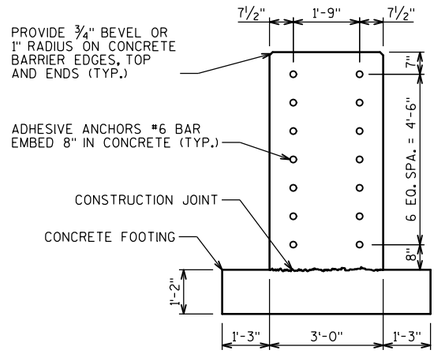
LEGEND

- ⚠ 12" SELECT CRUSHED MATERIAL MAY BE ELIMINATED IF IT IS DETERMINED BY THE ENGINEER THAT THE EXISTING MATERIAL IS COMPACTED GRANULAR MATERIAL.
- NOT A BRIDGE PAY ITEM, SEE ROADWAY PLANS.
- (B01) PLACE ½" FILLER BETWEEN COLUMN AND CONCRETE FOOTING (TYP.)
- (B04) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE TOP OF THE EXISTING PIER FOOTING BEFORE PLACING THE BARRIER FOOTING (TYP.)
- (B05) 4'-8" FROM WB SHOULDER TOP OF SHOULDER.
- (B06) DIMENSION BASED UPON EXISTING BRIDGE PLANS.
- 10" OF CONCRETE WITH HMA OVERLAY. REFER TO ROADWAY PLANS.
- BASE AGGREGATE DENSE 1¼"
- SELECT CRUSHED MATERIAL ⚠

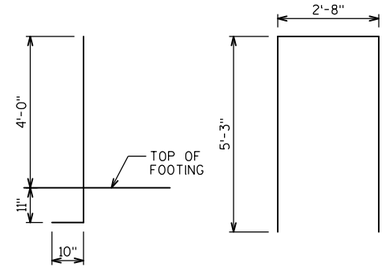


SECTION C-C

THRU COLUMN



ADHESIVE ANCHOR LAYOUT



P514 P513

BAR BENDING DIAGRAM

BAR DIMENSIONS ARE OUT TO OUT OF BAR

BILL OF BARS

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	SERIES	LOCATION
P501	X	158	5'-1"			FOOTING - TRANSVERSE
P502	X	96	0'-10"			FOOTING - TRANSVERSE AT COLUMN
P503	X	16	10'-2"			FOOTING - LONGITUDINAL
P504	X	32	29'-6"			FOOTING - LONGITUDINAL
P505	X	8	8'-9"			FOOTING - LONGITUDINAL
P506	X	24	21'-5"			FOOTING - LONGITUDINAL BETWEEN COLUMNS
P507	X	6	3'-7"			FOOTING - LONGITUDINAL BETWEEN PIERS
P508	X	12	4'-7"			FOOTING - LONGITUDINAL ENDS
P410	X	56	21'-5"			BARRIER - LONGITUDINAL BETWEEN COLUMNS
P411	X	14	3'-7"			BARRIER - LONGITUDINAL BETWEEN PIERS
P412	X	28	4'-7"			BARRIER - LONGITUDINAL ENDS
P513	X	158	12'-11"	X		BARRIER - STIRRUP
P514	X	316	5'-8"	X		BENT BAR FOOTING TO BARRIER
P615	X	168	3'-2"			ADHESIVE ANCHORS

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1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

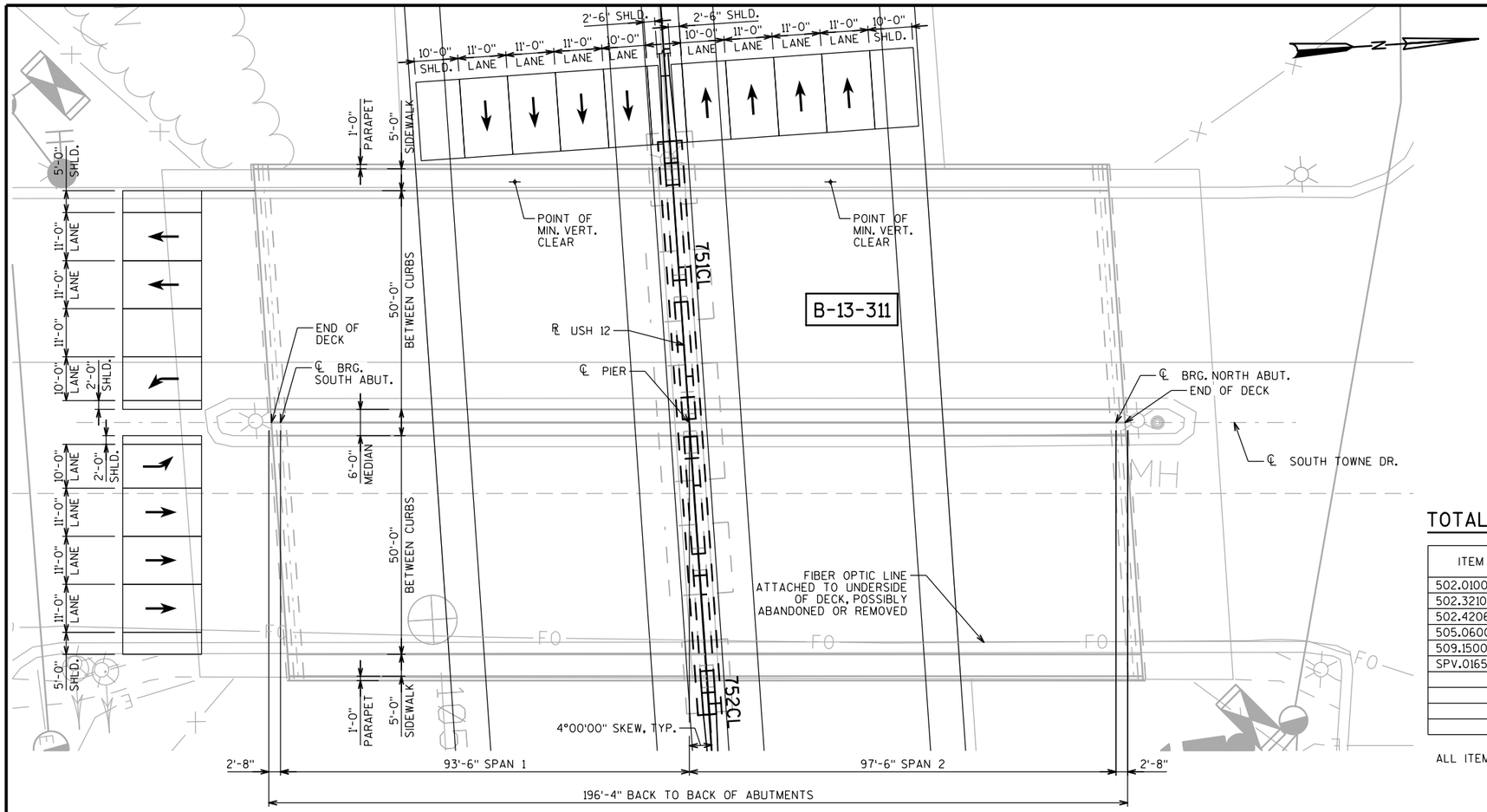
STRUCTURE B-13-310

DRAWN BY JTE | PLANS CK'D. HDA

INTEGRAL BARRIER DETAILS

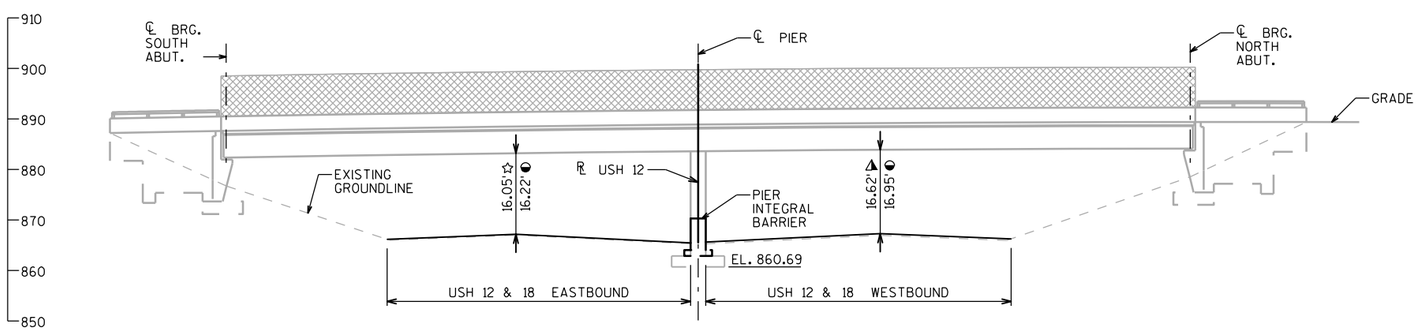
SHEET 3 OF 3

STATE PROJECT NUMBER
1206-06-79



PLAN

2 SPAN - 54" PRESTRESSED GIRDERS
MEDIAN PIER INTEGRAL BARRIER



ELEVATION

(LOOKING WEST)

LIST OF DRAWINGS

1. GENERAL PLAN, ELEVATION & QUANTITIES
2. GENERAL NOTES & 56-INCH CONCRETE INTEGRAL BARRIER
3. INTEGRAL BARRIER DETAILS

DESIGN DATA

MATERIAL PROPERTIES

CONCRETE MASONRY ..... f'c = 4,000 psi
BAR STEEL REINFORCEMENT ..... fy = 60,000 psi

TRAFFIC DATA

USH 12/18 EB & WB

A.D.T. = 138,000 (2018)
R.D.S. = 60 MPH

SOUTH TOWNE DR.

A.D.T. = 20,000 (2018)
R.D.S. = 45 MPH

TOTAL ESTIMATED QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
502.0100	CONCRETE MASONRY BRIDGES	CY	91
502.3210	PIGMENTED SURFACE SEALER	SY	172
502.4206	ADHESIVE ANCHORS NO. 6 BAR	EACH	168
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	9,640
509.1500	CONCRETE SURFACE REPAIR	SF	10
SPV.0165.01	FIBER WRAP REINFORCING NON-STRUCTURAL	SF	140
	PREFORMED JOINT FILLERNON-BID ITEMS	SIZE	1/2"
	POLYETHYLENE SHEETING		

ALL ITEMS ARE CATEGORY 0120

LEGEND

→ TRAFFIC DIRECTION

◑ LOCATION PER EXISTING PLANS AND MINIMUM CLEARANCE TAKEN FROM HSI SYSTEM 2/12/2019.

☆ LOCATION PER EXISTING PLANS AND REVISED MINIMUM CLEARANCE RESULTING FROM 2" HMA ASPHALT OVERLAY ON USH 12

◭ LOCATION PER EXISTING PLANS AND REVISED MINIMUM CLEARANCE RESULTING FROM 4" HMA ASPHALT OVERLAY ON USH 12

STRUCTURES DESIGN CONTACTS

BRIDGE OFFICE:
AARON BONK (608) 261-0261
CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

HNTB (414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-13-311

SOUTH TOWNE DR. OVER USH 12/18

COUNTY	CITY
DANE	MONONA

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
JTE/EAJ	HDA	JTE/EAJ	HDA

GENERAL PLAN, ELEVATION & QUANTITIES

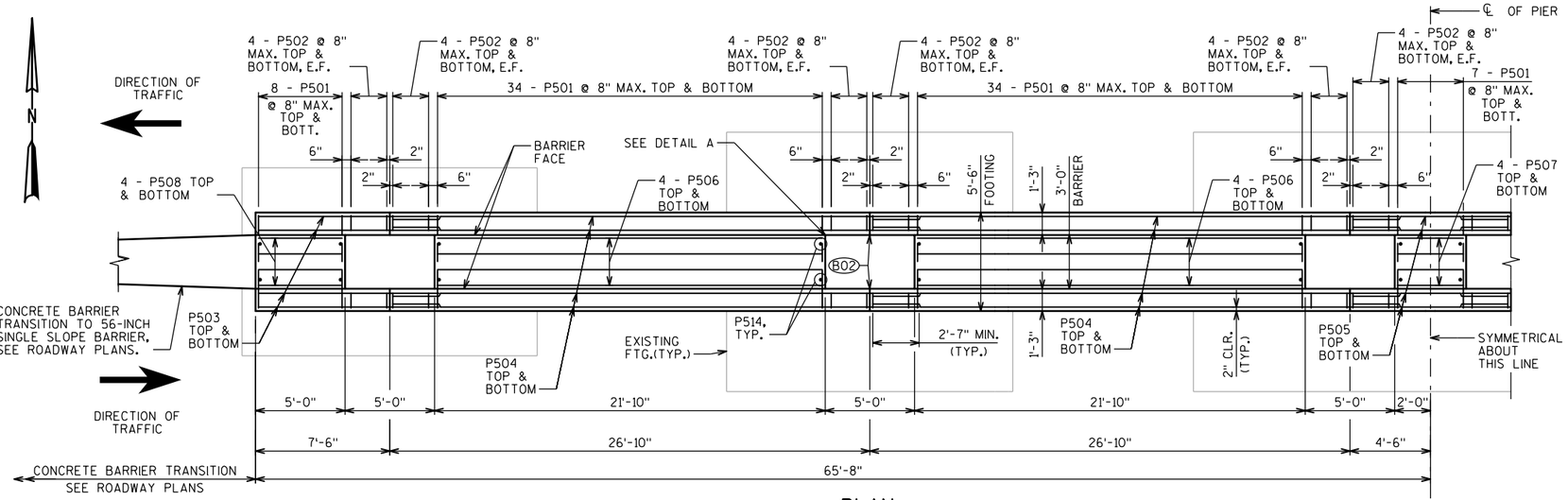
SHEET 1 OF 3

1078 PLANS

8

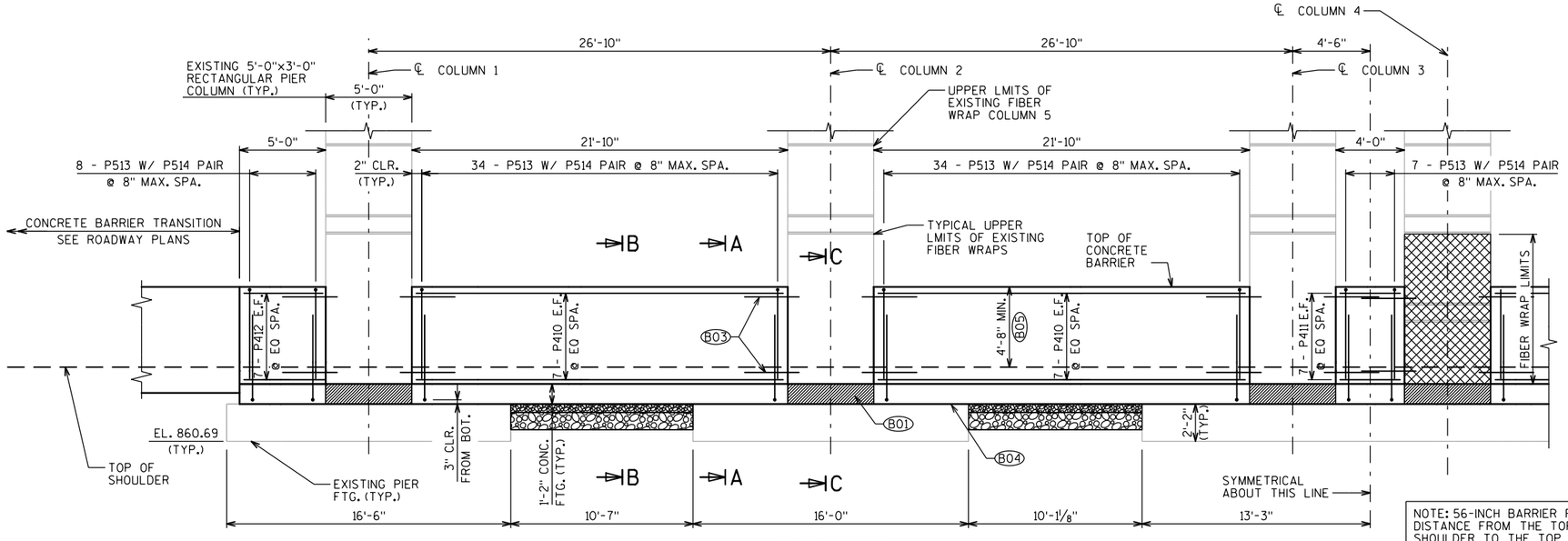
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STATE PROJECT NUMBER
1206-06-79



PLAN

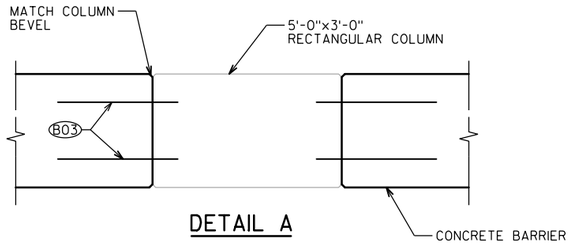
(SHOWING FOOTING REINFORCEMENT ONLY)



ELEVATION

(WEST PIER, LOOKING NORTH SHOWN)

NOTE: 56-INCH BARRIER REFERS TO THE DISTANCE FROM THE TOP OF THE SHOULDER TO THE TOP OF THE BARRIER.



DETAIL A

LEGEND

E.F.	EACH FACE
B01	PLACE ½" FILLER BETWEEN COLUMN AND CONCRETE FOOTING (TYP.)
B02	OPTIONAL CONSTRUCTION JOINTS IN FOOTINGS PLACED ALONG ℄ OF COLUMN. IF USED LAP LONGITUDINAL REINFORCEMENT 2'-7" IN ADJACENT POUR.
B03	ADHESIVE ANCHORS NO. 6 BAR, EMBED 8" IN CONCRETE (TYP.)
B04	PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE TOP OF THE EXISTING PIER FOOTING BEFORE PLACING THE BARRIER FOOTING (TYP.)

LEGEND CONT.

B05	4'-8" FROM TOP OF SHOULDER WB
	BASE AGGREGATE DENSE 1¼"
	SELECT CRUSHED MATERIAL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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ALL EXISTING COLUMNS EXCEPT COLUMN 4 HAVE EXISTING FIBER WRAP REPAIRS. REMOVE THE EXISTING ROADWAY BARRIERS ADJACENT TO PIER COLUMNS. COMPLETE ANY NEEDED CONCRETE SURFACE REPAIRS TO COLUMN 4 AND THEN FIBER WRAP THE COLUMN TO THE LIMITS AS SHOWN ON THIS PLAN SHEET. PRIOR TO PLACING THE INTEGRAL BARRIER, COMPLETE ANY ADDITIONAL CONCRETE SURFACE REPAIRS AND EXTEND THE FIBER WRAP REPAIR LIMITS ON THE OTHER COLUMNS IF THEY DO NOT EXTEND TO PROPOSED FINISHED GRADE. IF ADDITIONAL FIBER WRAPPING IS REQUIRED, EXTEND THE LIMITS TO 1'-0" MINIMUM BELOW PROPOSED FINISHED GRADE.

LOCATIONS OF THE FOLLOWING BID ITEMS SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER. QUANTITIES FOR THESE BID ITEMS ARE APPROXIMATE.
- FIBER WRAP REINFORCING NON-STRUCTURAL

"CONCRETE SURFACE REPAIR" AREAS AS SHOWN ON IN THE QUANTITIES TABLE ARE APPROXIMATE. EXACT AREAS OF REPAIR SHALL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER.

APPLY "PIGMENTED SURFACE SEALER" TO THE EXPOSED FACES OF THE NEW INTEGRAL CONCRETE BARRIER AND TO THE EXPOSED VERTICAL FACES OF THE PIER COLUMNS FROM THE TOP OF THE INTEGRAL BARRIER TO THE TOP OF THE SHOULDER.

UNDER THE BID ITEM "ADHESIVE ANCHOR ¾-INCH" ANCHORED REINFORCING STEEL SHALL BE PAID FOR SEPARATELY AS PROVIDED IN SECTION 505 OF THE STANDARD SPECIFICATIONS FOR BAR STEEL REINFORCEMENT.

COORDINATE PLACEMENT OF DELINEATORS AND BRACKETS WITH ROADWAY. DELINEATORS AND BRACKETS INCLUDED WITH ROADWAY BID ITEMS AND TO BE SPACED AT 50'-0" MAX. PLACEMENT TO BE OFFSET A MINIMUM OF 10'-0" FROM THE EDGE OF PIER COLUMNS.

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

BARRIER AND FOOTING SHALL CONSIST OF CAST IN PLACE CONSTRUCTION. NO JOINTS SHALL BE ALLOWED IN THE BARRIER. CONSTRUCTION JOINTS WILL ONLY BE ALLOWED IN THE FOOTING AT LOCATIONS SHOWN IN THE "PLAN VIEW".

DO NOT CUT OR DRILL INTO EXISTING COLUMN BAR STEEL.

ALL REINFORCEMENT SHALL BE EPOXY-COATED.

USE 2-INCH MINIMUM BAR CLEARANCE, EXCEPT AT FOOTINGS PROVIDE 3-INCH BAR CLEARANCE FROM BOTTOM OF FOOTING TO BOTTOM TRANSVERSE REINFORCEMENT.

PROVIDE ¾-INCH BEVEL OR 1-INCH RADIUS ON BARRIER EDGES, TOP AND ENDS.

BASED UPON EXISTING STRUCTURE PLANS, THE EXISTING TOP OF PIER FOOTING IS APPROXIMATELY THE PROPOSED BOTTOM OF BARRIER FOOTING ELEVATION. USE THE EXISTING TOP OF PIER FOOTING ELEVATION AS THE BOTTOM OF BARRIER FOOTING ELEVATION.

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-311

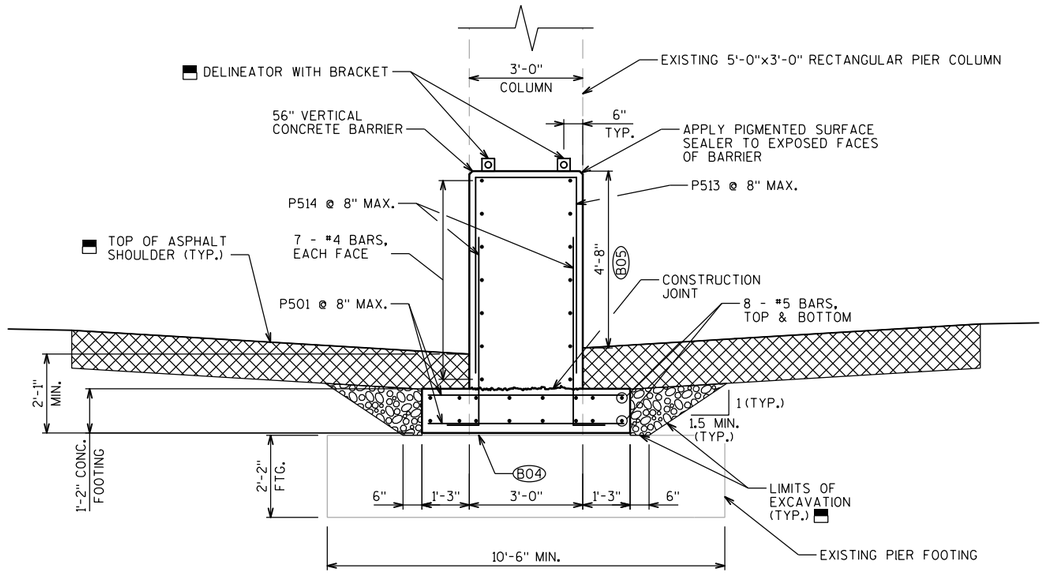
DRAWN BY JTE/EAJ | PLANS CK'D. HDA

GENERAL NOTES & 56-INCH CONCRETE INTEGRAL BARRIER

SHEET 2 OF 3

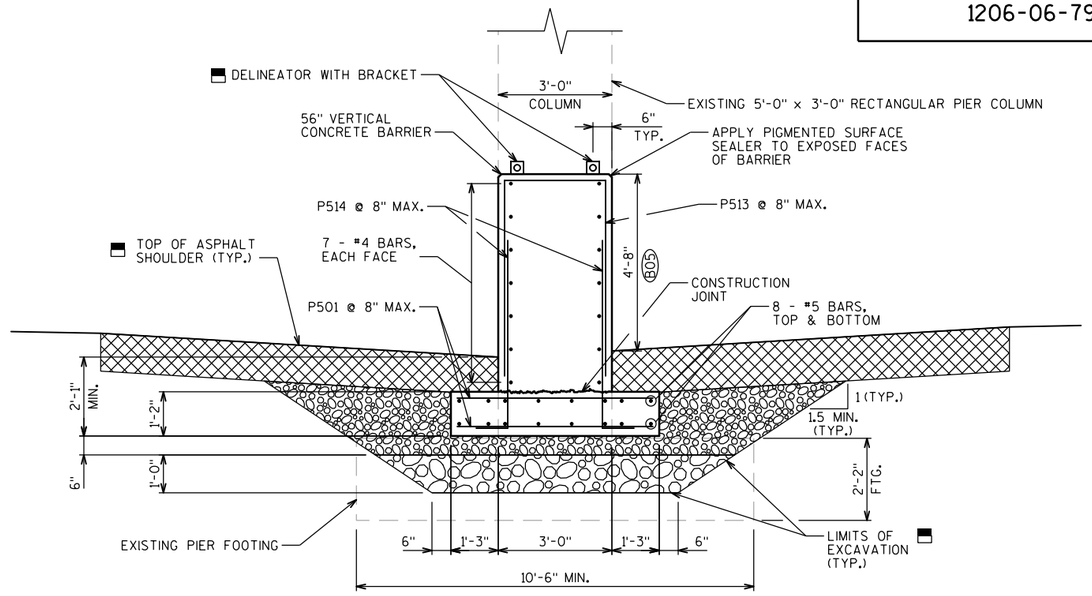
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STATE PROJECT NUMBER
1206-06-79



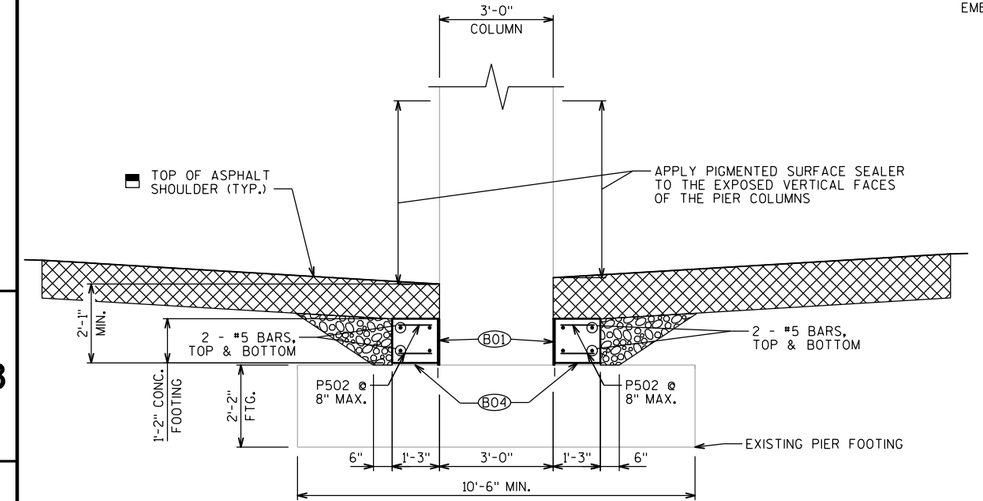
SECTION A-A

BETWEEN COLUMNS OVER EXISTING FOOTING



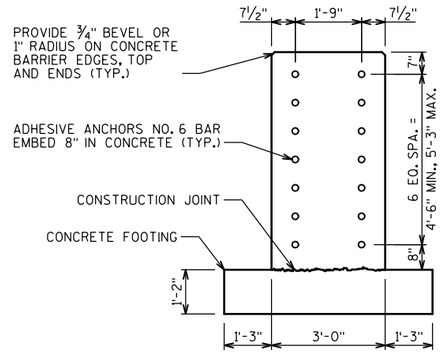
SECTION B-B

BETWEEN COLUMNS AND FOOTINGS

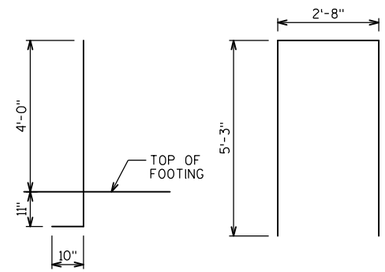


SECTION C-C

THRU COLUMN



ADHESIVE ANCHOR LAYOUT



P514 P513

BAR BENDING DIAGRAM

BAR DIMENSIONS ARE OUT TO OUT OF BAR

BILL OF BARS

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	SERIES	LOCATION
P501	X	318	5'-1"			FOOTING - TRANSVERSE
P502	X	192	0'-10"			FOOTING - TRANSVERSE AT COLUMN
P503	X	16	10'-1"			FOOTING - LONGITUDINAL
P504	X	32	29'-5"			FOOTING - LONGITUDINAL
P505	X	8	8'-7"			FOOTING - LONGITUDINAL
P506	X	32	21'-5"			FOOTING - LONGITUDINAL BETWEEN COLUMNS
P507	X	8	3'-7"			FOOTING - LONGITUDINAL BETWEEN PIERS
P508	X	16	4'-7"			FOOTING - LONGITUDINAL ENDS
P410	X	56	21'-5"			BARRIER - LONGITUDINAL BETWEEN COLUMNS
P411	X	14	3'-7"			BARRIER - LONGITUDINAL BETWEEN PIERS
P412	X	28	4'-7"			BARRIER - LONGITUDINAL ENDS
P513	X	159	12'-11"	X		BARRIER - STIRRUP
P514	X	318	5'-8"	X		BENT BAR FOOTING TO BARRIER
P615	X	168	3'-2"			ADHESIVE ANCHORS

LEGEND

- ⚠ 12" SELECT CRUSHED MATERIAL MAY BE ELIMINATED IF IT IS DETERMINED BY THE ENGINEER THAT THE EXISTING MATERIAL IS COMPACTED GRANULAR MATERIAL.
- NOT A BRIDGE PAY ITEM, SEE ROADWAY PLANS.
- (B01) PLACE ½" FILLER BETWEEN COLUMN AND CONCRETE FOOTING (TYP.)
- (B04) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE TOP OF THE EXISTING PIER FOOTING BEFORE PLACING THE BARRIER FOOTING (TYP.)
- (B05) 4'-8" FROM WB SHOULDER TOP OF SHOULDER.
- 10" OF CONCRETE WITH HMA OVERLAY. REFER TO ROADWAY PLANS.
- BASE AGGREGATE DENSE 1¼"
- SELECT CRUSHED MATERIAL ⚠

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1078 PLANS

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-13-311

DRAWN BY JTE/EAJ | PLANS CK'D. HDA

INTEGRAL BARRIER DETAILS

SHEET 3 OF 3

STATE PROJECT NUMBER
1206-06-79

DESIGN DATA

SIGN STR	ACTUAL SIGN AREA TYPE 1	ACTUAL SIGN AREA DMS	ACTUAL SIGN HEIGHT TYPE 1	ACTUAL SIGN HEIGHT DMS
S-13-2003	XXX SF	XXX SF	X'-XX"	X'-XX"
S-13-2004	XXX SF	XXX SF	X'-XX"	X'-XX"
S-13-20XX	XXX SF	XXX SF	X'-XX"	X'-XX"
S-13-2005	XXX SF	XXX SF	X'-XX"	X'-XX"
S-13-20XX	XXX SF	XXX SF	X'-XX"	X'-XX"
S-13-2006	XXX SF	XXX SF	X'-XX"	X'-XX"
S-13-2007	XXX SF	XXX SF	X'-XX"	X'-XX"
S-13-2008	XXX SF	XXX SF	X'-XX"	X'-XX"
S-13-2009	XXX SF	XXX SF	X'-XX"	X'-XX"
S-13-2010	XXX SF	XXX SF	X'-XX"	X'-XX"
S-13-20XX	XXX SF	XXX SF	X'-XX"	X'-XX"
DESIGN SIGN	91.0 SF	60.0 SF	6'-6"	6'-0"

ALL STRUCTURES IN THIS GROUP OF STRUCTURES ARE DESIGNED FOR THE DESIGN SIGN LOADING

DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL

FOUNDATION DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

DEAD LOAD - WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD - 3 PSF TO ONE FACE OF SIGN & AROUND SURFACE OF MEMBERS.
WIND PRESSURE - 120 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (1700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1	1.0	0.0
LOAD CASE 2	0.0	1.0
LOAD CASE 3	0.75	0.75

LOAD COMBINATIONS

STRENGTH I: 1.25 DC + 1.6 LL
EXTREME I (MAX DC): 1.1 DC + 1.0 W + 1.0 ICE
EXTERME I (MIN DC): 0.9 DC + 1.0 W
SERVICE I: 1.0 DC + 1.0 W
FATIGUE I: 1.0 NWG (NATURAL WIND GUST VIBRATION)
1.0 TrG (TRUCK INDUCED GUST VIBRATION)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DANE COUNTY ZONE, NAD 83 (2011). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2012).

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-XXXX" FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH ¾" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS, IF USED SHALL BE THE SAME SIZE AND LOCATION AS PERMANENT SIGNS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES AND STORM SEWER IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AND STORM SEWER AS MAY BE NECESSARY TO AVOID DAMAGE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON SHOP DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "FOUNDATION DRILLING".

TRAFFIC VOLUME

A.D.T. (2036) = 139,650-164,190
R.D.S. = 60 MPH

FOUNDATION DATA

SIGN STRUCTURE FOUNDATIONS ARE SUPPORTED ON DRILLED SHAFTS THAT HAVE BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 24° (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 750 PSF (COHESIVE SOILS) AND A UNIT WEIGHT OF 125 PCF. THE GROUND WATER TABLE IS ASSUMED TO BE AT A DEPTH OF 10'-0" BELOW THE GROUND SURFACE. THE REGION GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT THE SUBSURFACE SOILS DURING DRILLING OF THE SHAFT HOLE TO CONFIRM THESE PROPERTIES PRIOR TO PLACEMENT OF THE DRILLED SHAFT CONCRETE.

MATERIAL PROPERTIES

CONCRETE MASONRY ---------- f'c = 3,500 psi

HIGH STRENGTH STEEL REINFORCEMENT, GRADE 60 ---------- fy = 60,000 psi

STRUCTURAL ANGLES, PLATE AND BARS - ASTM A709 GRADE 36 ---------- fy = 36,000 psi

CHORDS & COLUMN PIPE - ASTM A500 GRADE C ---------- fy = 46,000 psi

HIGH STRENGTH BOLTS - A325 ---------- fy = 92,000 psi

ANCHOR RODS - ASTM F1554 GRADE 55 ---------- fy = 55,000 psi

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

LIST OF DRAWINGS

1. GENERAL NOTES & DESIGN DATA
2. GENERAL LAYOUT S-13-2003
3. GENERAL LAYOUT S-13-2004
4. GENERAL LAYOUT S-13-20XX
5. GENERAL LAYOUT S-13-2005
6. GENERAL LAYOUT S-13-20XX
7. GENERAL LAYOUT S-13-2006
8. GENERAL LAYOUT S-13-2007
9. GENERAL LAYOUT S-13-2008
10. GENERAL LAYOUT S-13-2009
11. GENERAL LAYOUT S-13-2010
12. GENERAL LAYOUT S-13-20XX
13. OSS 2-CHORD TRUSS BUTTERFLY SPAN DETAILS
14. OSS 2-CHORD TRUSS BUTTERFLY SPAN ELECTRICAL DETAILS
15. OSS 2-CHORD TRUSS BUTTERFLY SPAN FOUNDATION DETAILS

DETAILS AND FINAL SHEET COUNT TO BE PROVIDED AT FINAL DESIGN

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEMS	UNIT	S-13-2003	S-13-2004	S-13-20XX	S-13-2005	S-13-20XX	S-13-2006	S-13-2007	S-13-2008	S-13-2009	S-13-2010	S-13-20XX
502.3210	PIGMENTED SURFACE SEALER	SY	--	--	--	--	--	--	--	--	--	--	--
531.00XX	FOUNDATION DRILLING 36-INCH	LF	--	--	--	--	--	--	--	--	--	--	--
531.1000	ANCILLARY STRUCTURES CONCRETE MASONRY	CY	--	--	--	--	--	--	--	--	--	--	--
531.2400	ANCILLARY STRUCTURES STEEL REINFORCEMENT HS	LB	--	--	--	--	--	--	--	--	--	--	--
531.2600	ANCILLARY STRUCTURES STEEL REINFORCEMENT HS COATED	LB	--	--	--	--	--	--	--	--	--	--	--
531.60XX	ANCHOR ASSEMBLIES X-INCH	EA	--	--	--	--	--	--	--	--	--	--	--
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	--	--	--	--	--	--	--	--	--	--	--
653.XXXX	JUNCTION BOXES (SIZE)	EA	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-2003	LF	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-2004	LF	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-20XX	LF	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-2005	LF	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-20XX	LF	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-2006	LF	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-20XX	LF	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-2008	LF	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-2009	LF	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-2010	LF	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-20XX	LF	--	--	--	--	--	--	--	--	--	--	--

1078 PLANS

THE DESIGNER CERTIFIES THAT THE SIGN STRUCTURE GEOMETRY AND STANDARD FOUNDATION CHOSEN ARE CONSISTENT WITH THE GUIDANCE PROVIDED IN THE CURRENT WISCONSIN BRIDGE MANUAL CHAPTER 39.

STRUCTURE DESIGN CONTACTS

BUREAU OF STRUCTURES:
SUPERVISOR:
AARON BONK (608) 261-0261

CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

HNTB (414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

OSS 2-CHORD TRUSS BUTTERFLY DPTSU PLANS

BUTTERFLY DPTSU SIGN STRUCTRES
USH 12/18 EB&WB

COUNTY	CITY OR TOWN
DANE	MADISON

DESIGN SPEC.
AASHTO LRFDLTS-1 W/INTERIMS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.

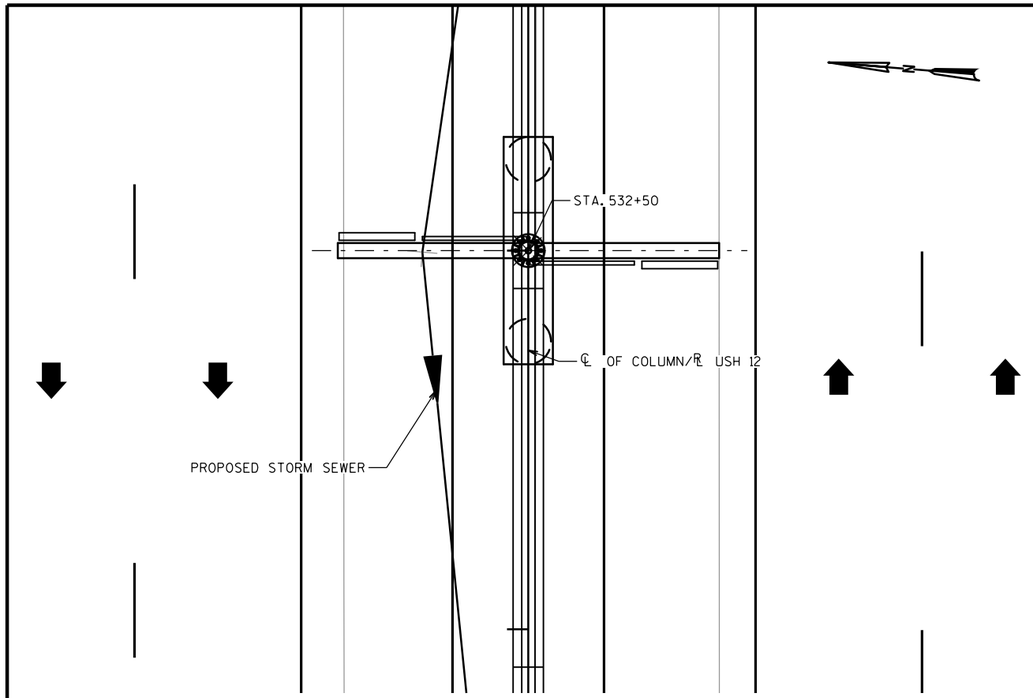
GENERAL NOTES, DESIGN DATA & QUANTITIES

SHEET 1 OF 12

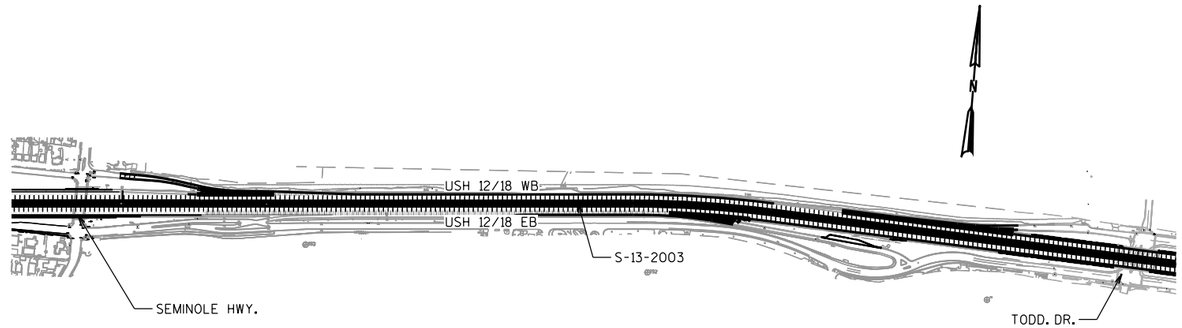
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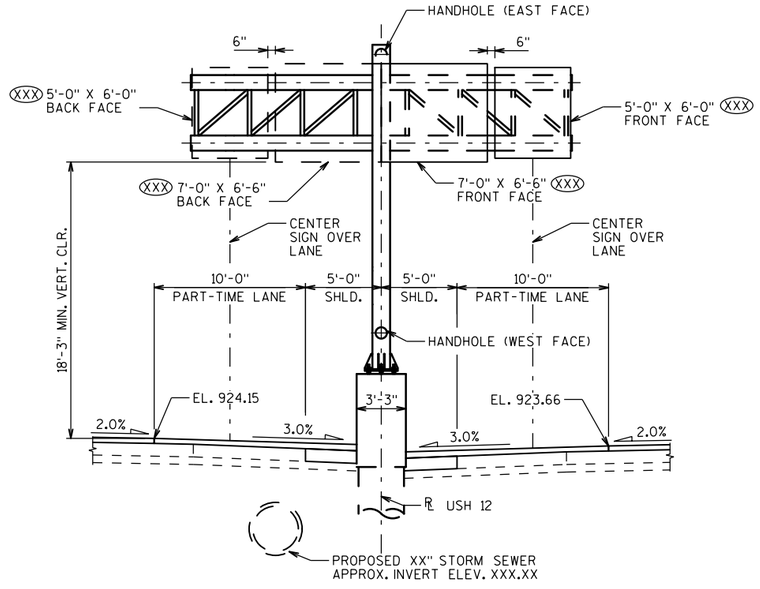
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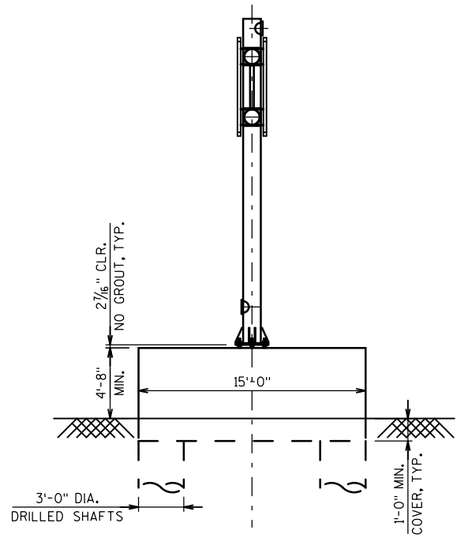
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 532+50 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

XXX SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2003

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2003

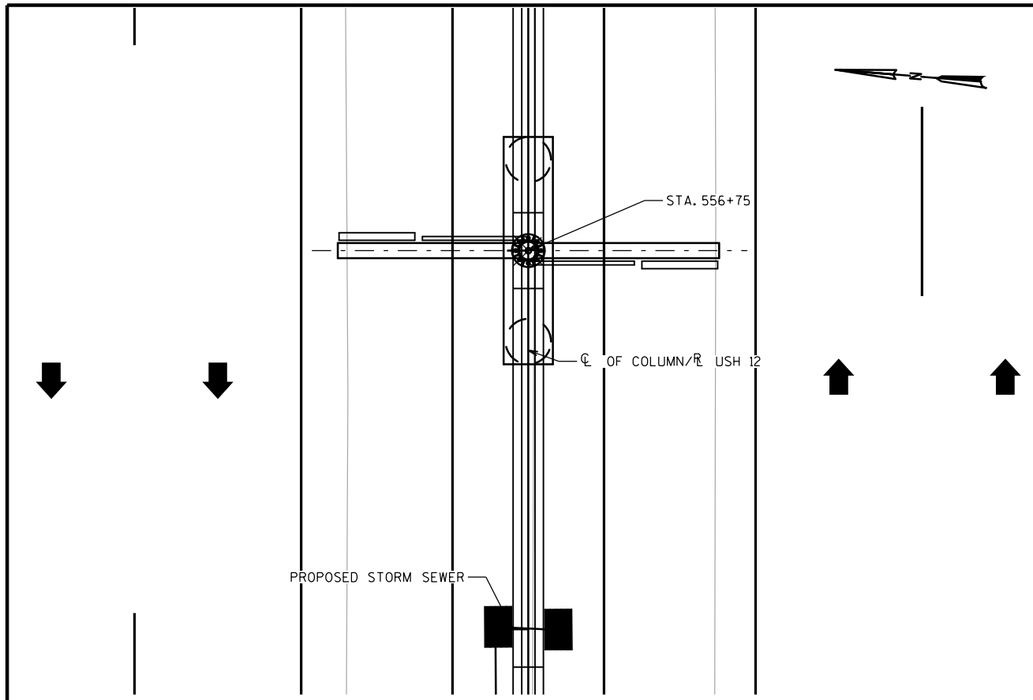
SHEET 2 OF 12

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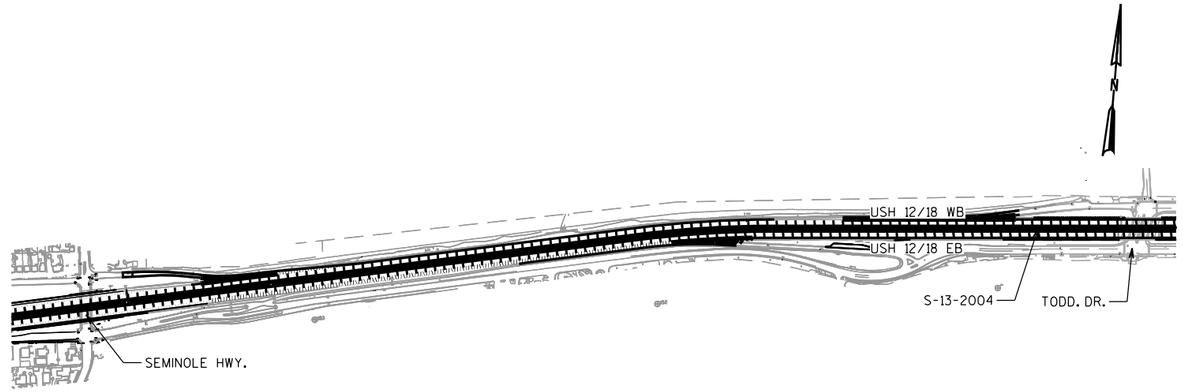
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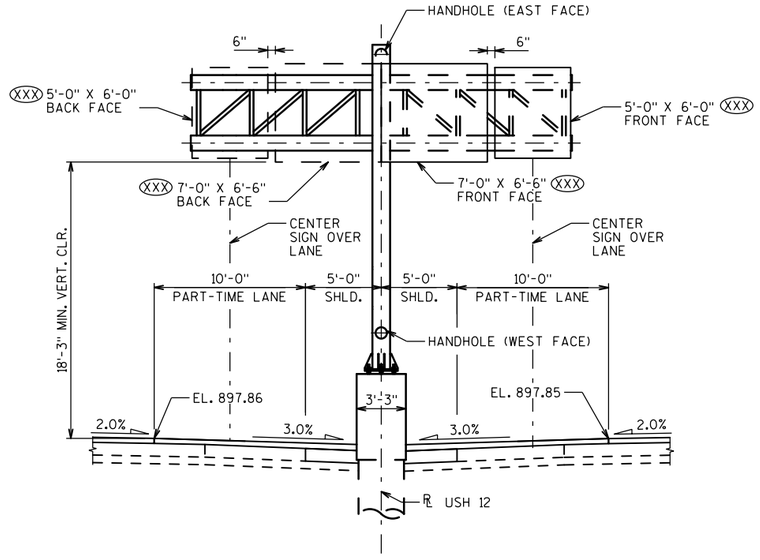
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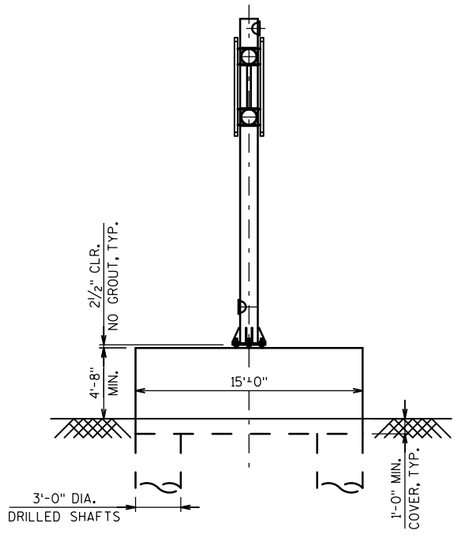
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 556+75 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2004

DRAWN BY	PLANS CK'D.

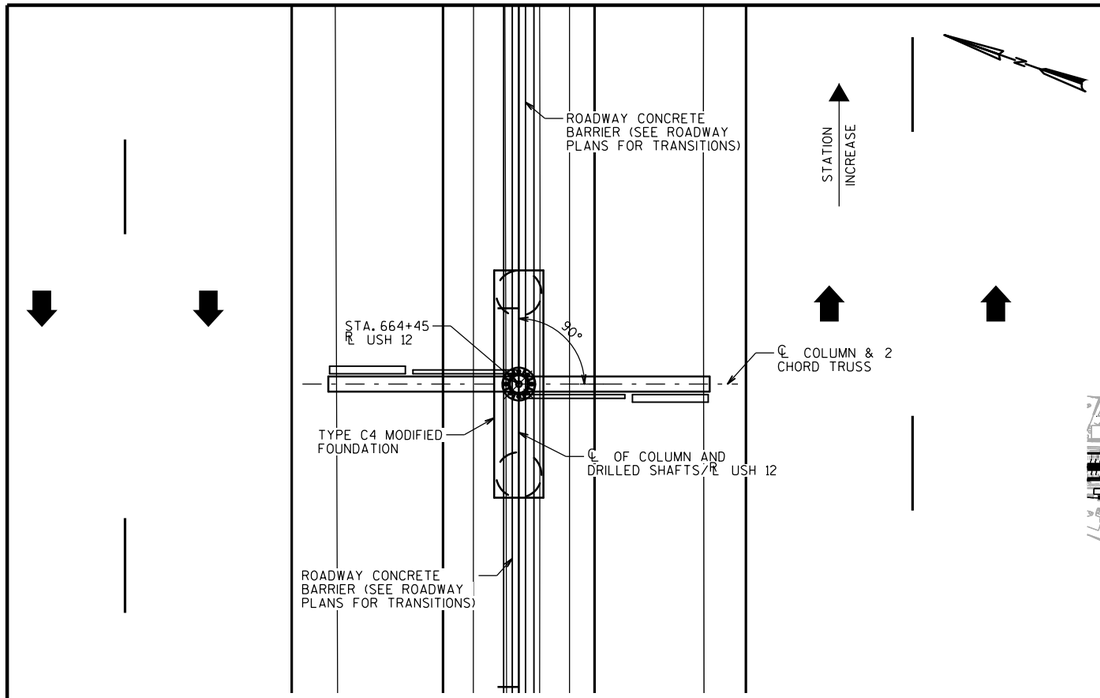
GENERAL LAYOUT
S-13-2004

SHEET 3 OF 12

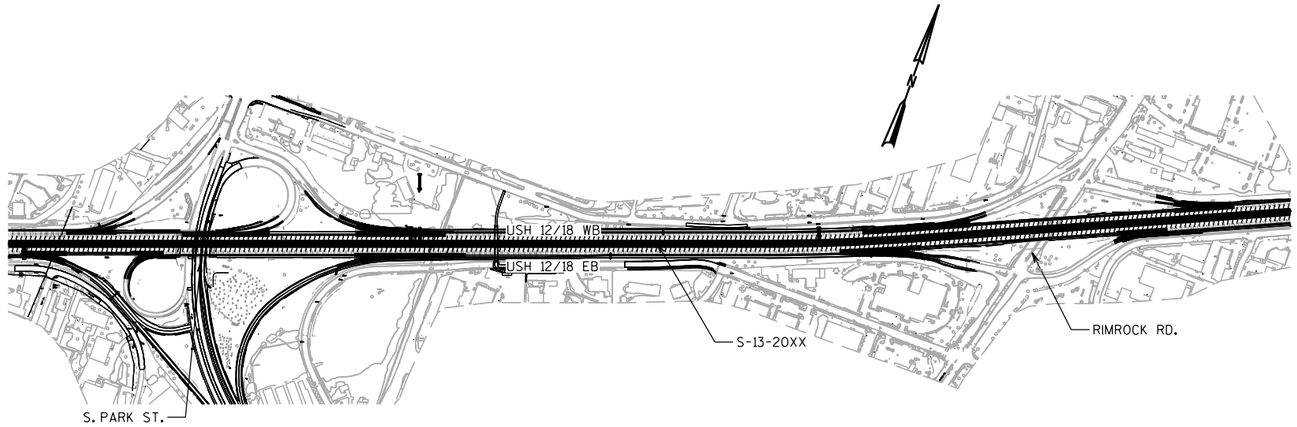
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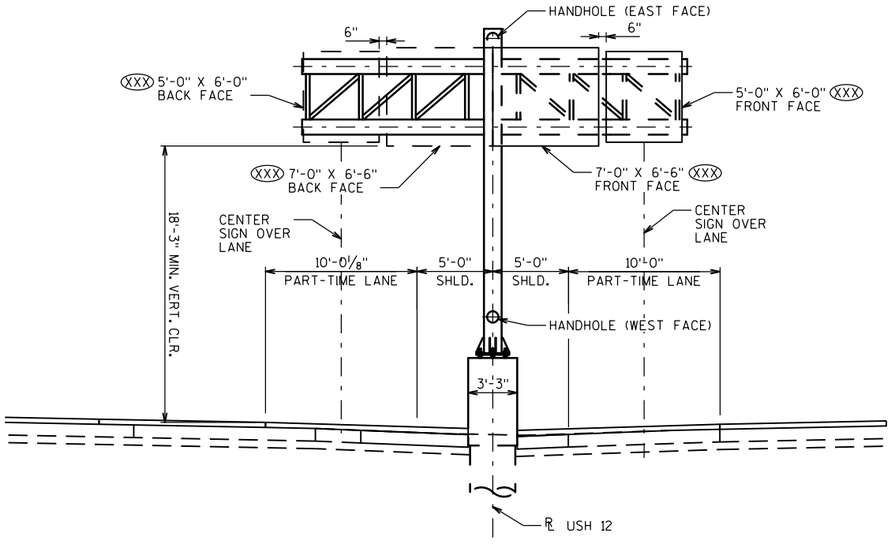
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PLAN

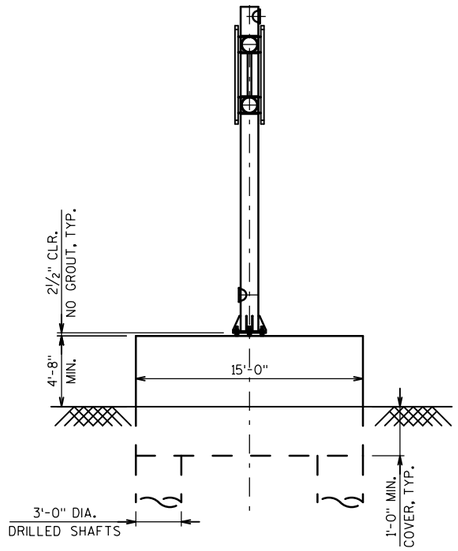


LOCATION MAP



ELEVATION

STA. 664+45 USH 12
(LOOKING EAST)



SIDE VIEW

(LOOKING NORTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-20XX

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-20XX

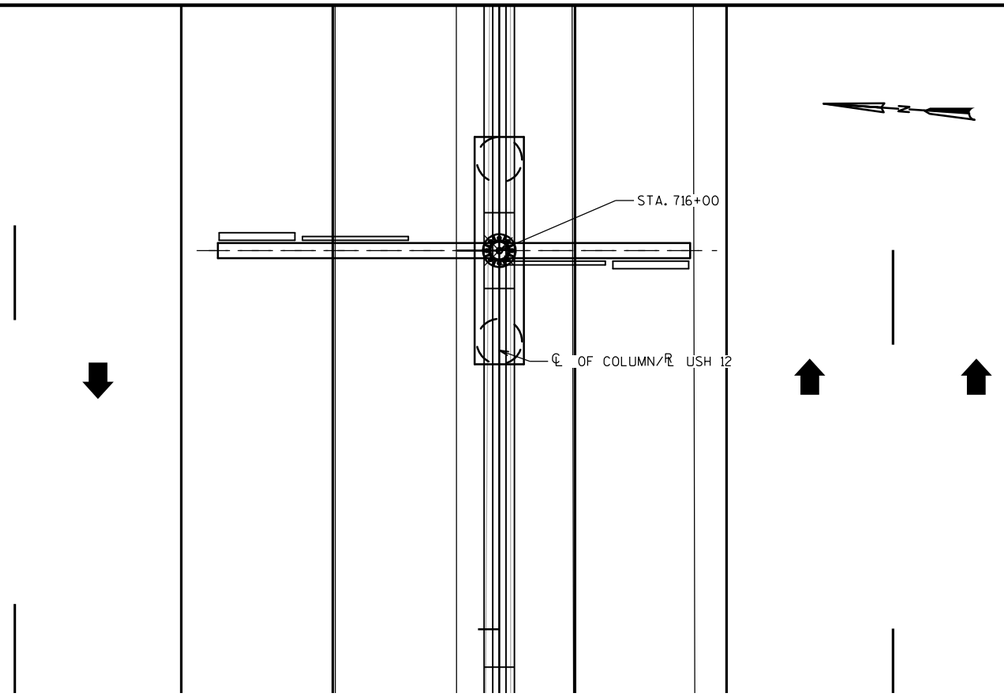
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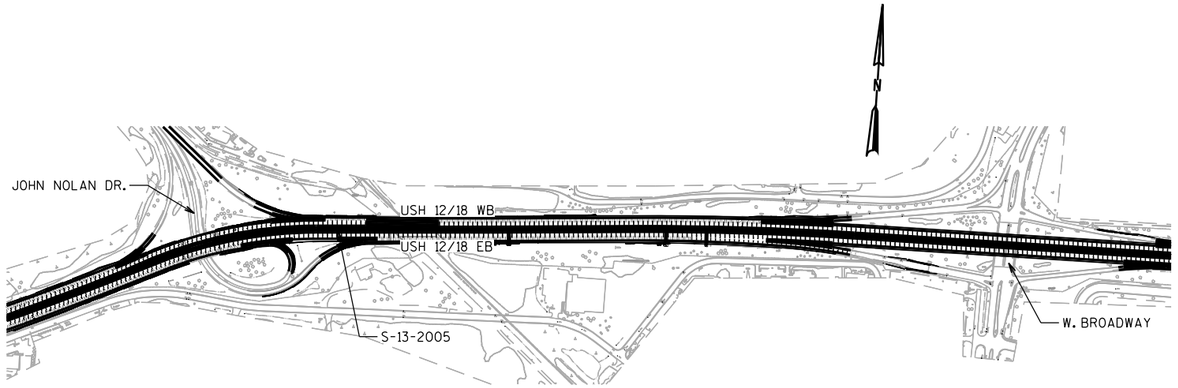
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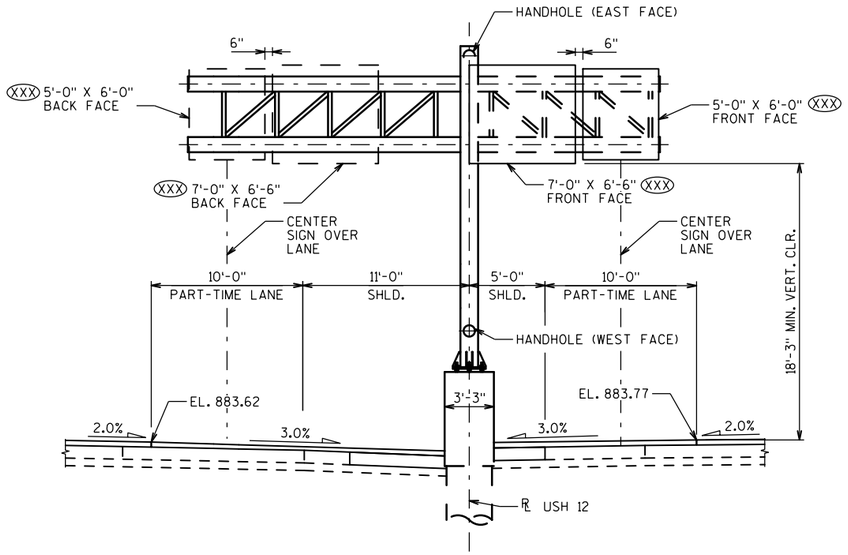
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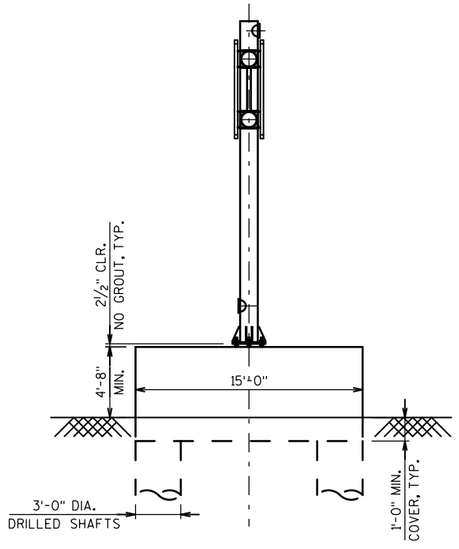
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 716+00 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2005

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2005

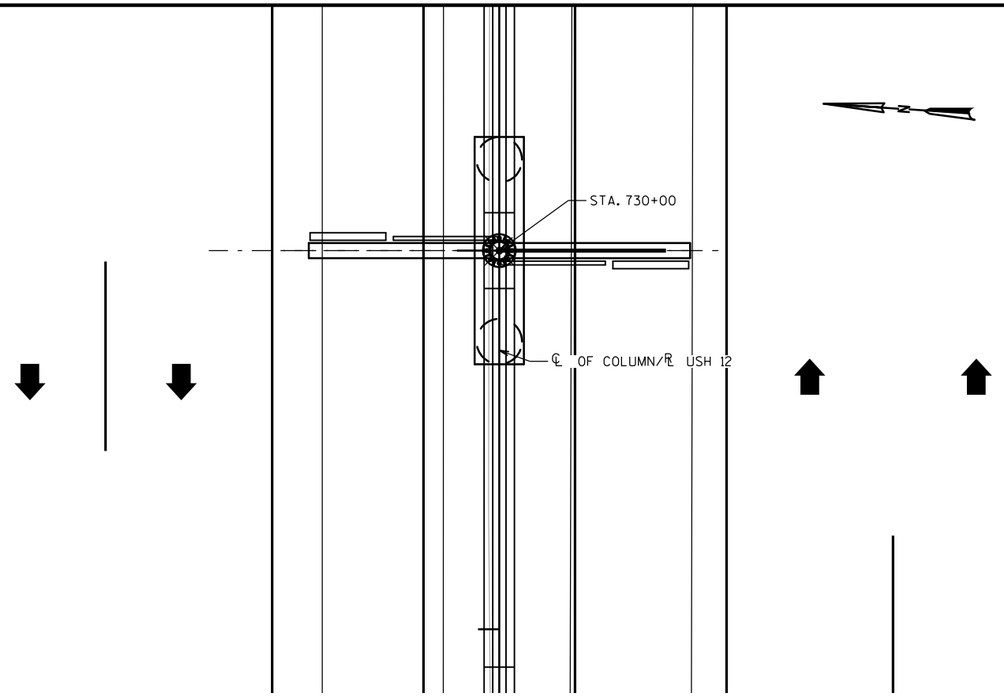
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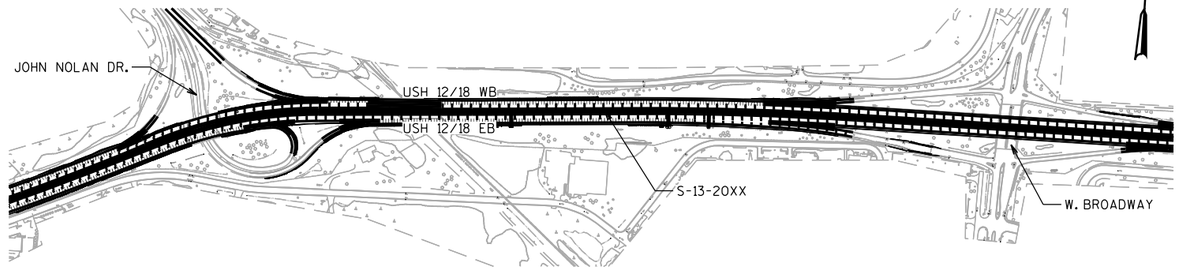
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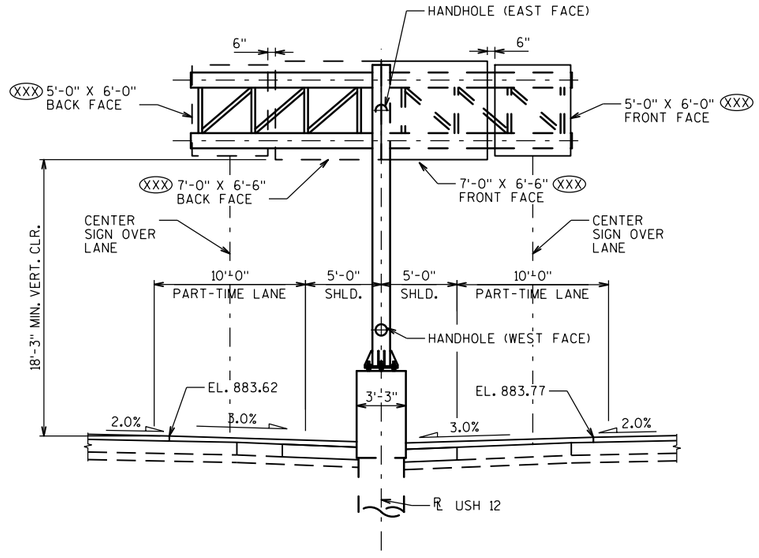
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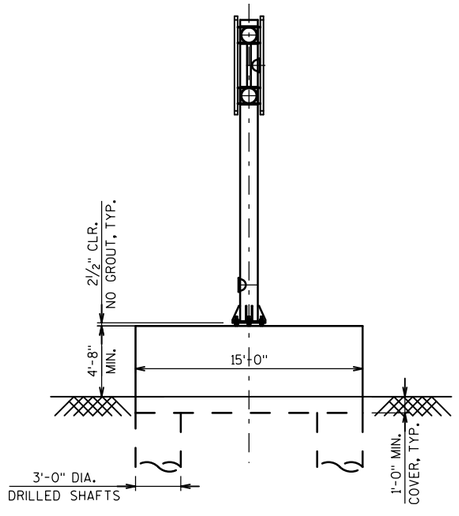
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 730+00 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-20XX

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-20XX

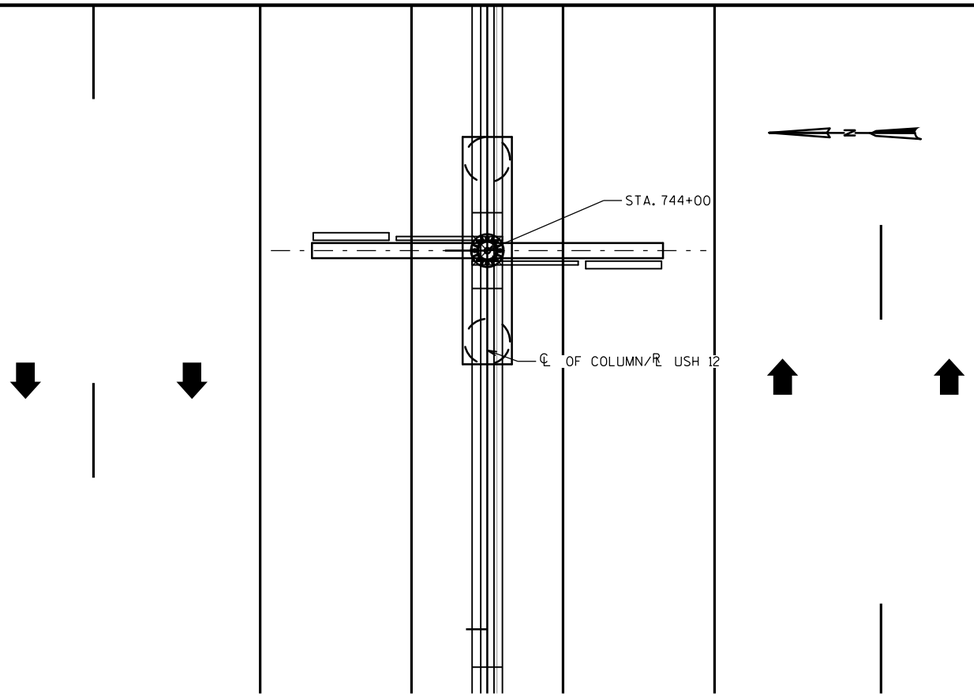
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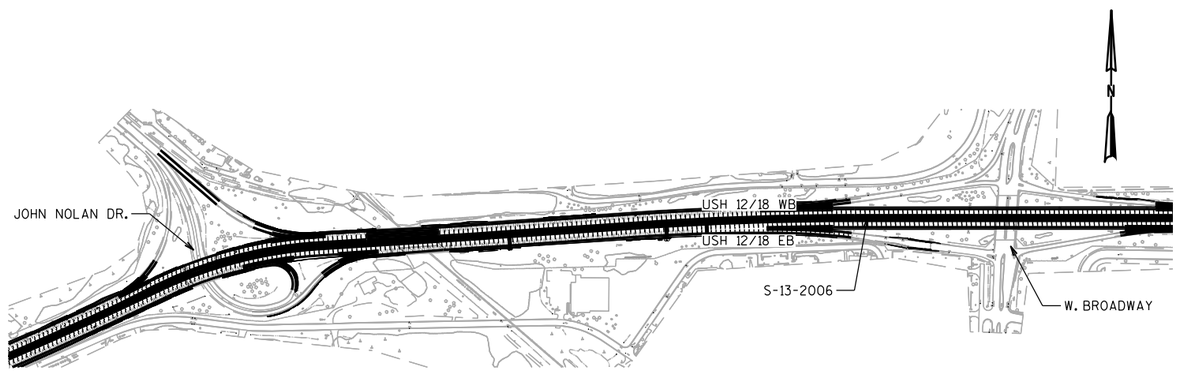
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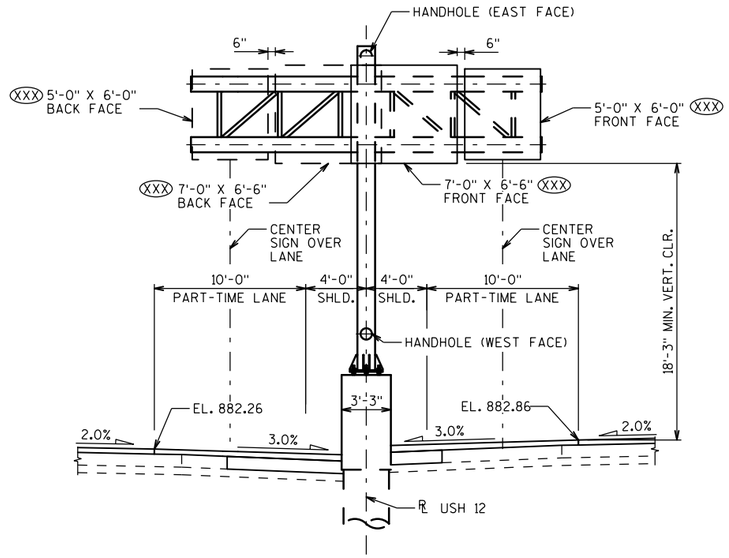
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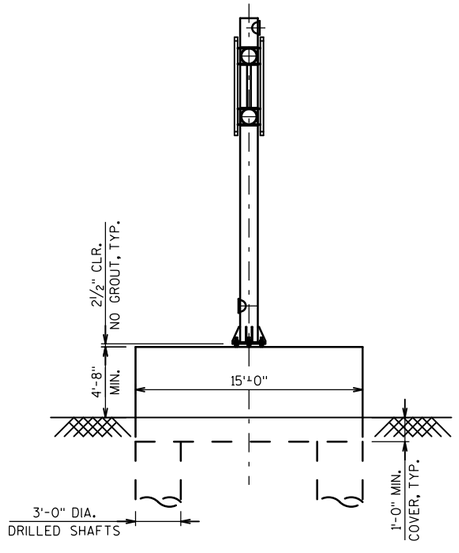
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 744+00 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

XXX SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2006

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2006

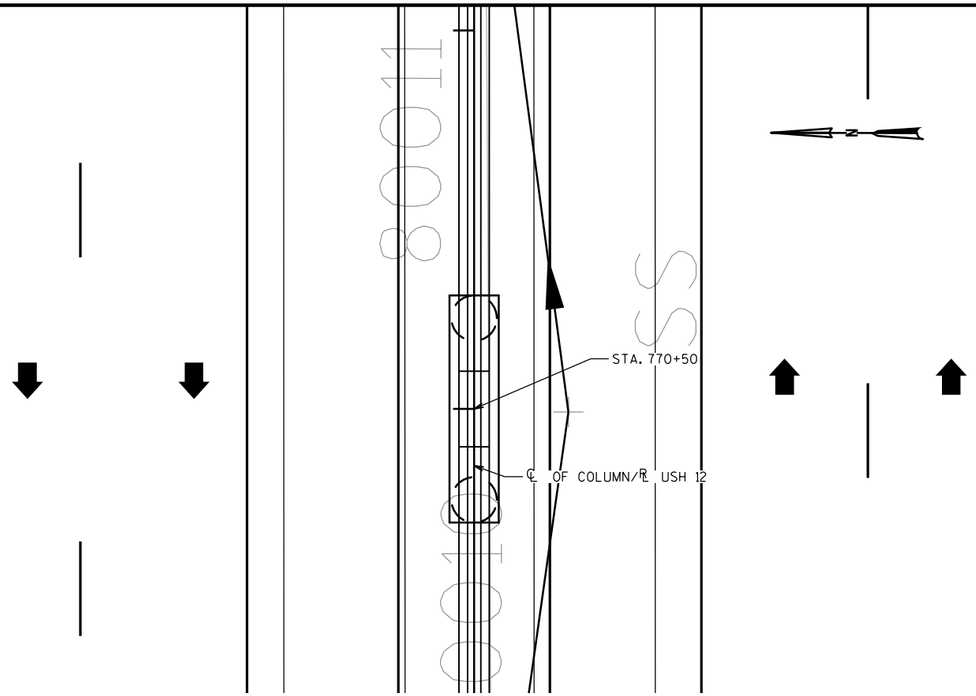
SHEET 7 OF 12

8

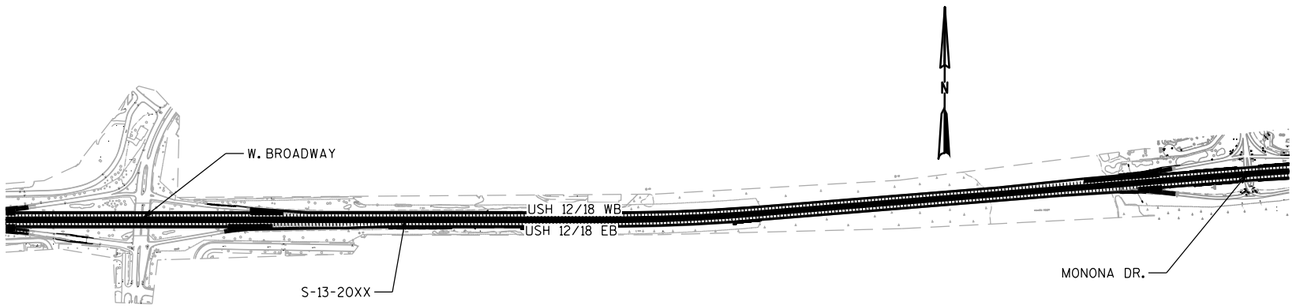
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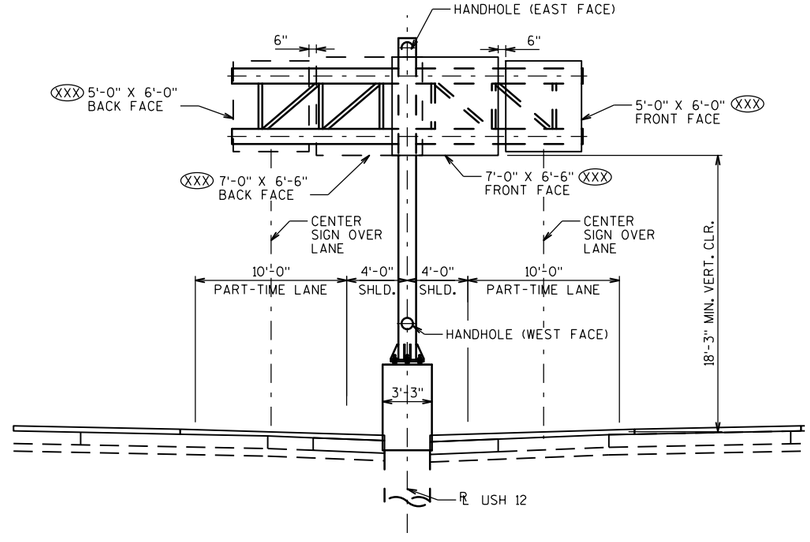
STATE PROJECT NUMBER
1206-06-79



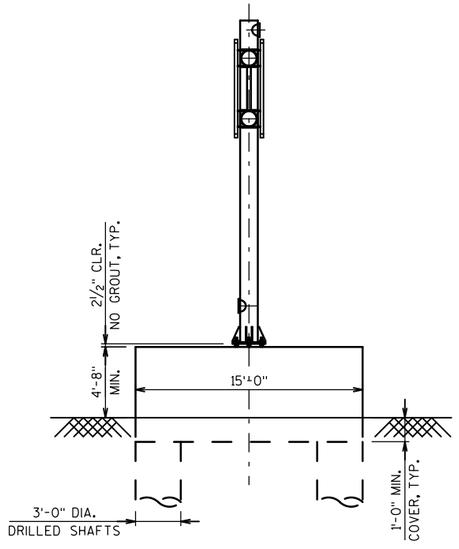
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 770+50 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2007

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2007

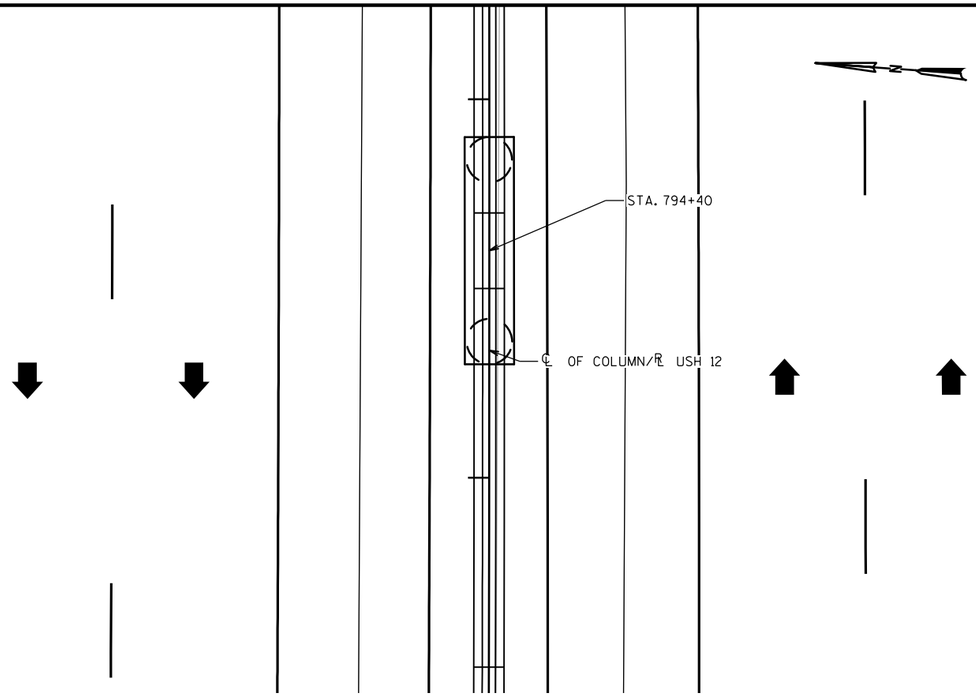
SHEET 8 OF 12

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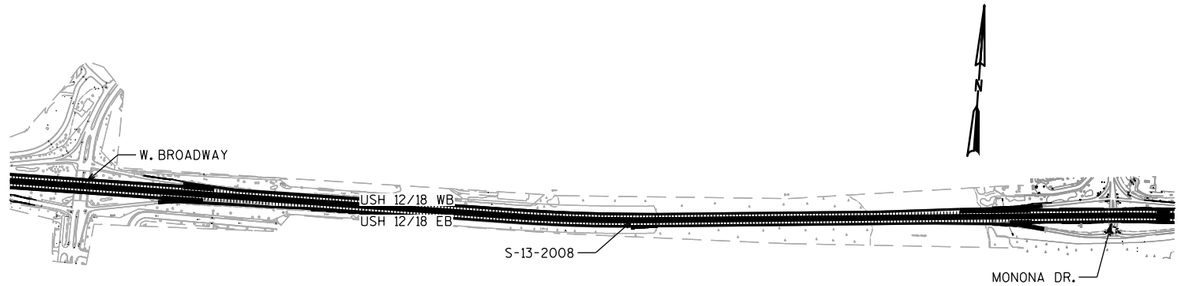
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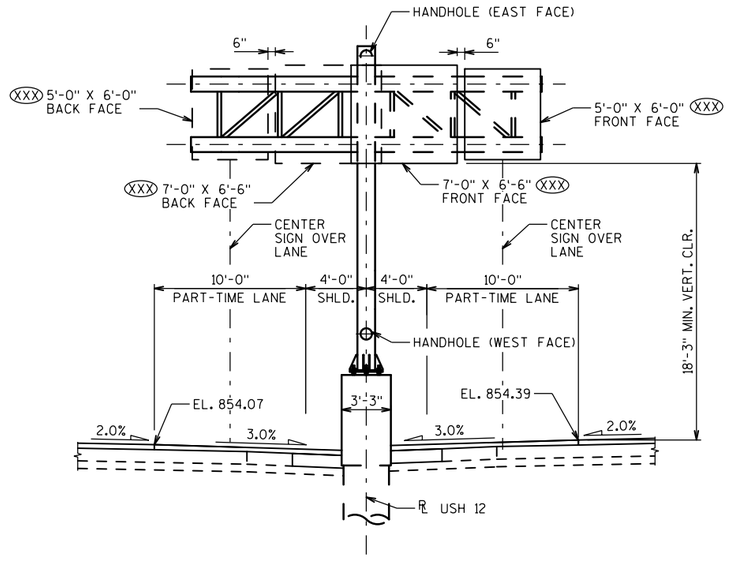
STATE PROJECT NUMBER
1206-06-79



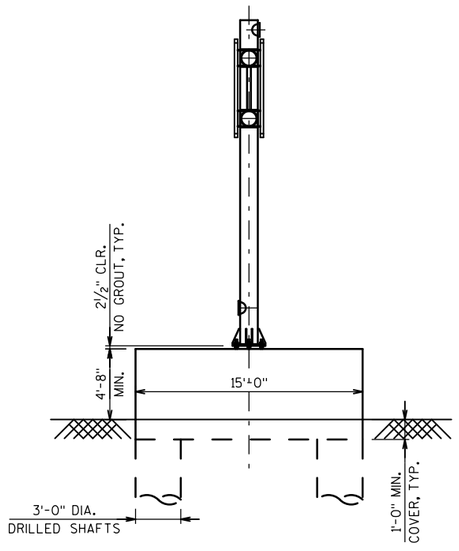
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 794+40 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2008

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2008

SHEET 9 OF 12

8

8

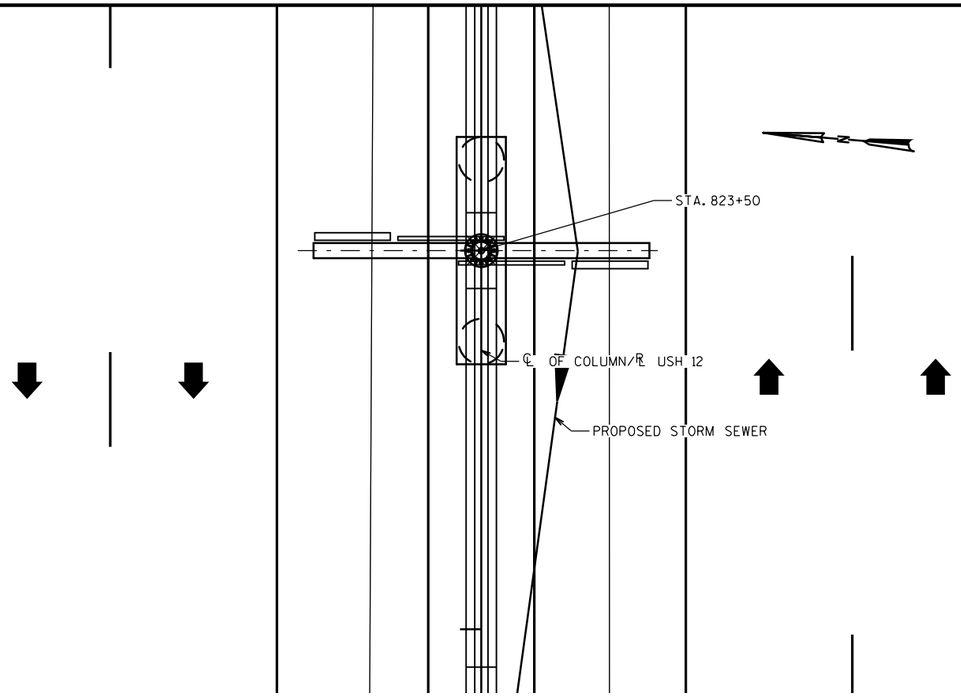
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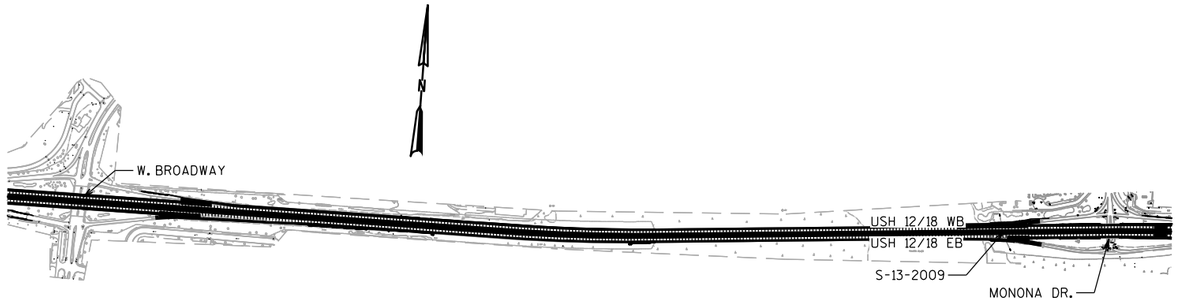
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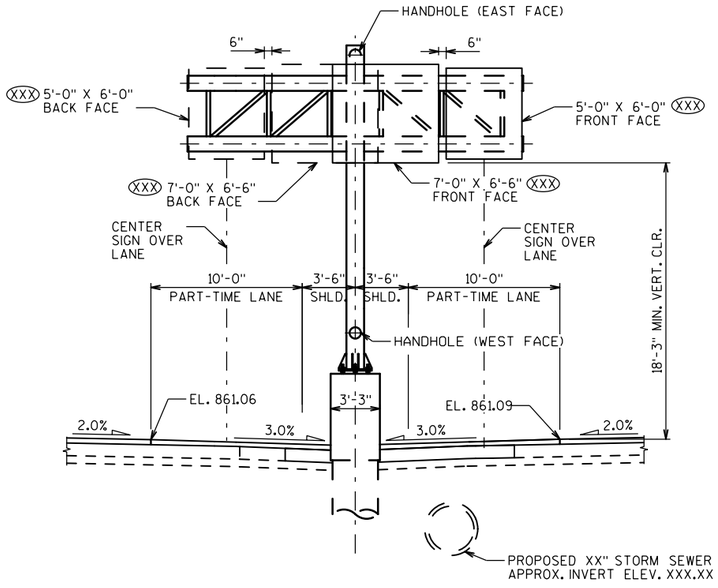
STATE PROJECT NUMBER
1206-06-79



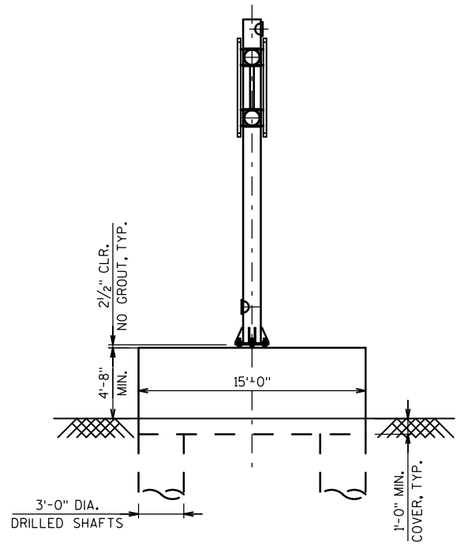
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 823+50 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2009

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2009

SHEET 10 OF 12

8

8

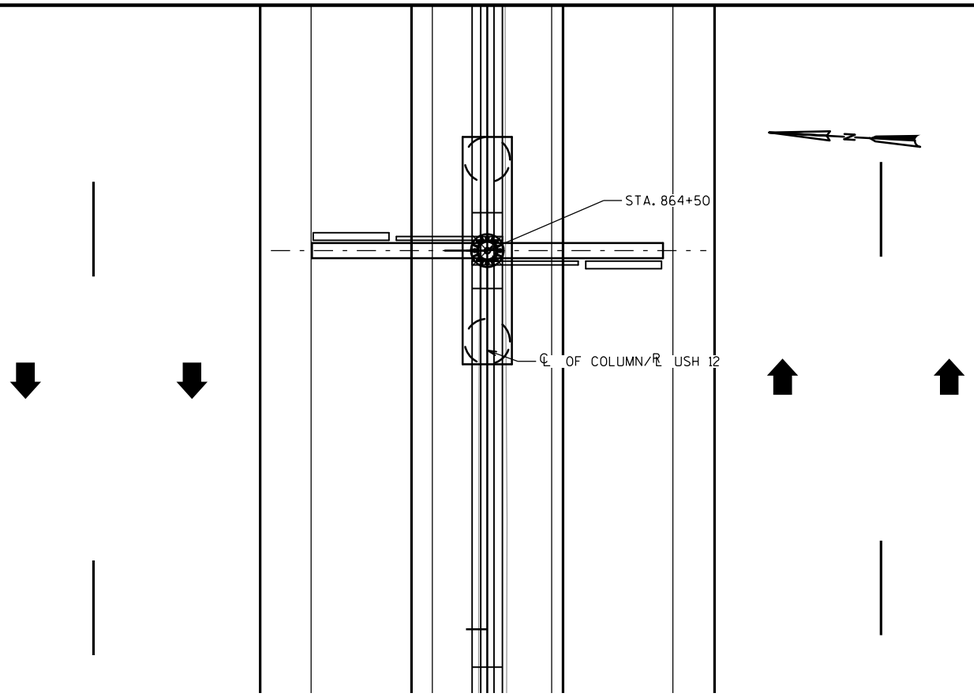
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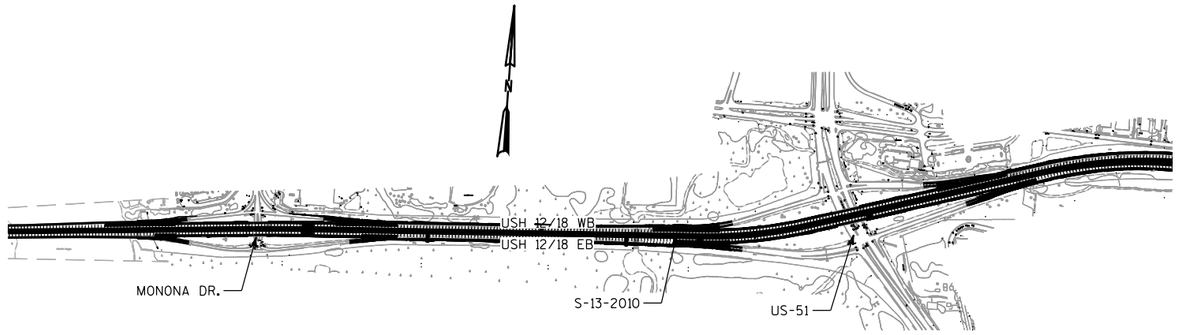
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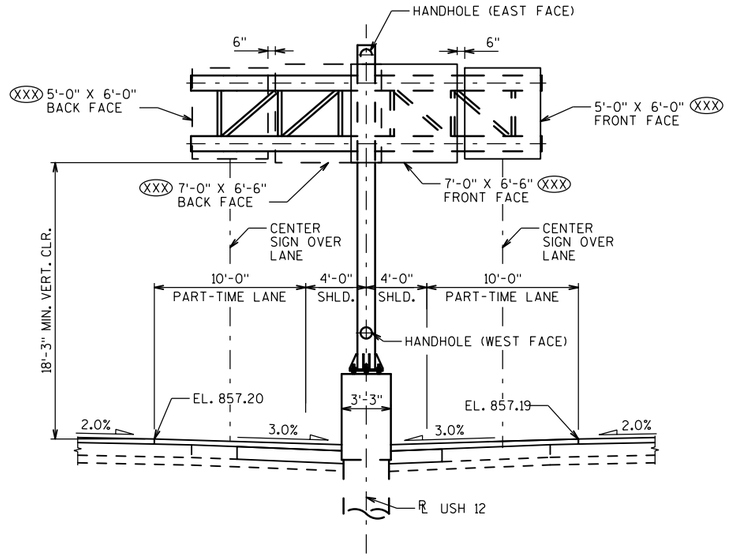
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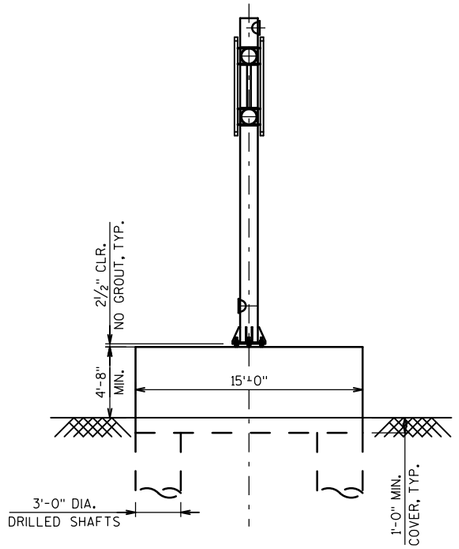
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 864+50 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2010

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2010

SHEET 11 OF 12

8

8

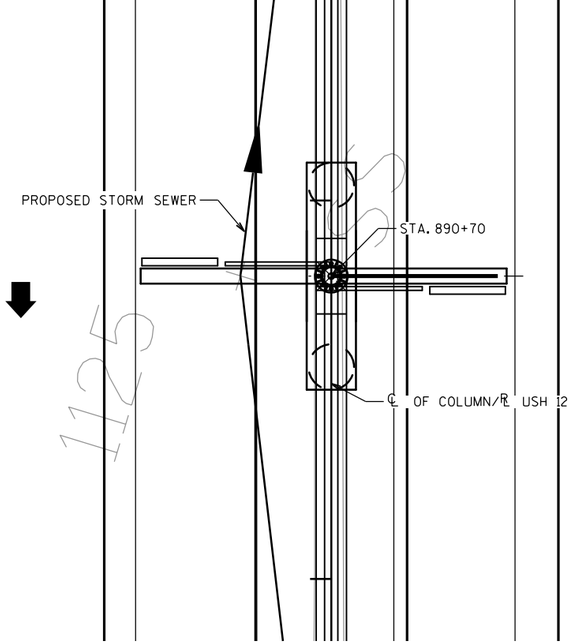
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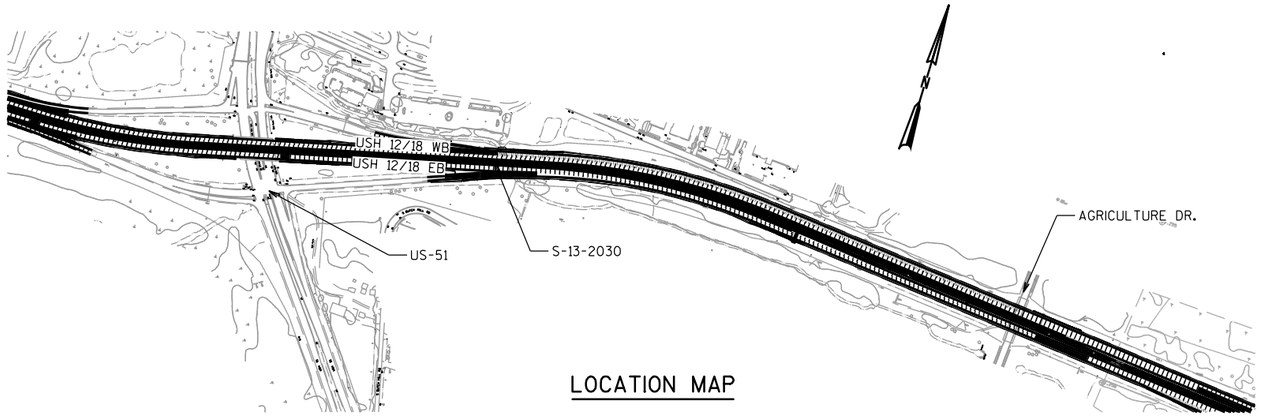
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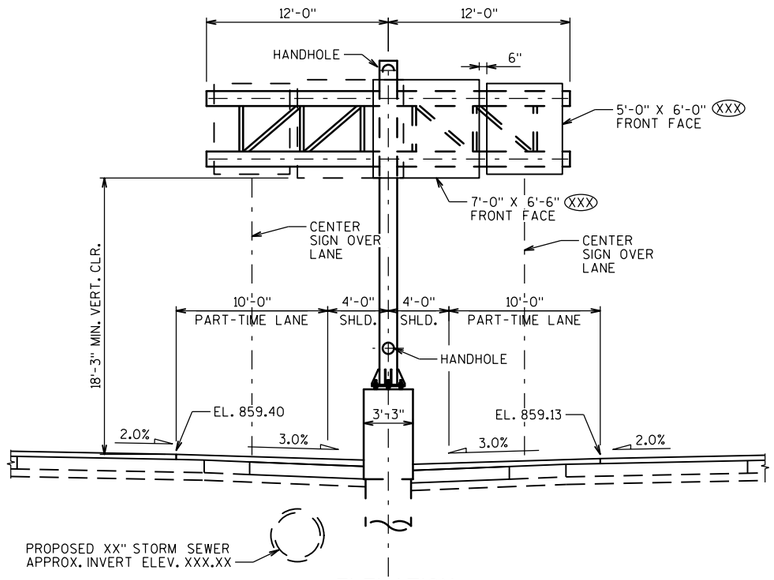
STATE PROJECT NUMBER
1206-06-79



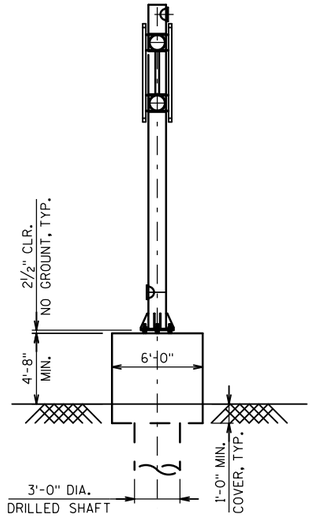
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 890+70 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-20XX

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-20XX

SHEET 12 OF 12

8

8

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PLOT NAME : $FILE$

PLOT SCALE : 10:1

STATE PROJECT NUMBER
1206-06-79

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEMS	UNIT	S-13-529	S-13-530	S-13-531	S-13-532	S-13-533	S-13-534	S-13-535	S-13-536	S-13-537	S-13-538	S-13-539	S-13-540	S-13-541
502.3210	PIGMENTED SURFACE SEALER	SY	--	--	--	--	--	--	--	--	--	--	--	--	--
531.00XX	FOUNDATION DRILLING 36-INCH	LF	--	--	--	--	--	--	--	--	--	--	--	--	--
531.1000	ANCILLARY STRUCTURES CONCRETE MASONRY	CY	--	--	--	--	--	--	--	--	--	--	--	--	--
531.2400	ANCILLARY STRUCTURES STEEL REINFORCEMENT HS	LB	--	--	--	--	--	--	--	--	--	--	--	--	--
531.2600	ANCILLARY STRUCTURES STEEL REINFORCEMENT HS COATED	LB	--	--	--	--	--	--	--	--	--	--	--	--	--
531.60XX	ANCHOR ASSEMBLIES X-INCH	EA	--	--	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-529	LF	--	--	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-530	LF	--	--	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-531	LF	--	--	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-532	LF	--	--	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-533	LF	--	--	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-534	LF	--	--	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-535	LF	--	--	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-536	LF	--	--	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-537	LF	--	--	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-538	LF	--	--	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-539	LF	--	--	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-540	LF	--	--	--	--	--	--	--	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-541	LF	--	--	--	--	--	--	--	--	--	--	--	--	--

DESIGN DATA

SIGN STR	ACTUAL SIGN AREA TYPE 1	ACTUAL SIGN HEIGHT TYPE 1
S-13-529	XXX SF	X'-XX"
S-13-530	XXX SF	X'-XX"
S-13-531	XXX SF	X'-XX"
S-13-532	XXX SF	X'-XX"
S-13-533	XXX SF	X'-XX"
S-13-534	XXX SF	X'-XX"
S-13-535	XXX SF	X'-XX"
S-13-536	XXX SF	X'-XX"
S-13-537	XXX SF	X'-XX"
S-13-538	XXX SF	X'-XX"
S-13-539	XXX SF	X'-XX"
S-13-540	XXX SF	X'-XX"
S-13-541	XXX SF	X'-XX"
DESIGN SIGN	XXX SF	X'-XX"

ALL STRUCTURES IN THIS GROUP OF STRUCTURES ARE DESIGNED FOR THE DESIGN SIGN LOADING

DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL

FOUNDATION DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

DEAD LOAD - WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD - 3 PSF TO ONE FACE OF SIGN & AROUND SURFACE OF MEMBERS.
WIND PRESSURE - 120 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (1700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1	1.0	0.0
LOAD CASE 2	0.0	1.0
LOAD CASE 3	0.75	0.75

LOAD COMBINATIONS

STRENGTH I: 1.25 DC + 1.6 LL
EXTREME I (MAX DC): 1.1 DC + 1.0 W + 1.0 ICE
EXTERME I (MIN DC): 0.9 DC + 1.0 W
SERVICE I: 1.0 DC + 1.0 W
FATIGUE I: 1.0 NWG (NATURAL WIND GUST VIBRATION)
1.0 TrG (TRUCK INDUCED GUST VIBRATION)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DANE COUNTY ZONE, NAD 83 (2011). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2012).

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS BUTTERFLY S-13-XXXX" FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH ¾" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS, IF USED SHALL BE THE SAME SIZE AND LOCATION AS PERMANENT SIGNS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES AND STORM SEWER IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AND STORM SEWER AS MAY BE NECESSARY TO AVOID DAMAGE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON SHOP DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "FOUNDATION DRILLING".

LIST OF DRAWINGS

1. GENERAL NOTES & DESIGN DATA
2. GENERAL LAYOUT S-13-529
3. GENERAL LAYOUT S-13-530
4. GENERAL LAYOUT S-13-531
5. GENERAL LAYOUT S-13-532
6. GENERAL LAYOUT S-13-533
7. GENERAL LAYOUT S-13-534
8. GENERAL LAYOUT S-13-535
9. GENERAL LAYOUT S-13-536
10. GENERAL LAYOUT S-13-537
11. GENERAL LAYOUT S-13-538
12. GENERAL LAYOUT S-13-539
13. GENERAL LAYOUT S-13-540
14. GENERAL LAYOUT S-13-541
15. OSS 2-CHORD TRUSS BUTTERFLY SPAN DETAILS
16. OSS 2-CHORD TRUSS BUTTERFLY SPAN ELECTRICAL DETAILS
17. OSS 2-CHORD TRUSS BUTTERFLY SPAN FOUNDATION DETAILS

DETAILS AND FINAL SHEET COUNT TO BE PROVIDED AT FINAL DESIGN

1078 PLANS

THE DESIGNER CERTIFIES THAT THE SIGN STRUCTURE GEOMETRY AND STANDARD FOUNDATION CHOSEN ARE CONSISTENT WITH THE GUIDANCE PROVIDED IN THE CURRENT WISCONSIN BRIDGE MANUAL CHAPTER 39.

TRAFFIC VOLUME

A.D.T. (2036) = 139,650-164,190
R.D.S. = 60 MPH

FOUNDATION DATA

SIGN STRUCTURE FOUNDATIONS ARE SUPPORTED ON DRILLED SHAFTS THAT HAVE BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 24° (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 750 PSF (COHESIVE SOILS) AND A UNIT WEIGHT OF 125 PCF. THE GROUND WATER TABLE IS ASSUMED TO BE AT A DEPTH OF 10'-0" BELOW THE GROUND SURFACE. THE REGION GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT THE SUBSURFACE SOILS DURING DRILLING OF THE SHAFT HOLE TO CONFIRM THESE PROPERTIES PRIOR TO PLACEMENT OF THE DRILLED SHAFT CONCRETE.

MATERIAL PROPERTIES

CONCRETE MASONRY ---------- f'c = 3,500 psi

HIGH STRENGTH STEEL REINFORCEMENT, GRADE 60 ---------- fy = 60,000 psi

STRUCTURAL ANGLES, PLATE AND BARS - ASTM A709 GRADE 36 ---------- fy = 36,000 psi

CHORDS & COLUMN PIPE - ASTM A500 GRADE C ---------- fy = 46,000 psi

HIGH STRENGTH BOLTS - A325 ---------- fy = 92,000 psi

ANCHOR RODS - ASTM F1554 GRADE 55 ---------- fy = 55,000 psi

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

STRUCTURE DESIGN CONTACTS

BUREAU OF STRUCTURES:
SUPERVISOR:
AARON BONK (608) 261-0261

CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

HNTB (414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

OSS 2-CHORD TRUSS BUTTERFLY STATIC PLANS

BUTTERFLY STATIC SIGN STRUCTRES
USH 12/18 EB&WB

COUNTY	CITY OR TOWN
DANE	MADISON

DESIGN SPEC.
AASHTO LRFDLTS-1 W/INTERIMS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.

GENERAL NOTES, DESIGN DATA & QUANTITIES

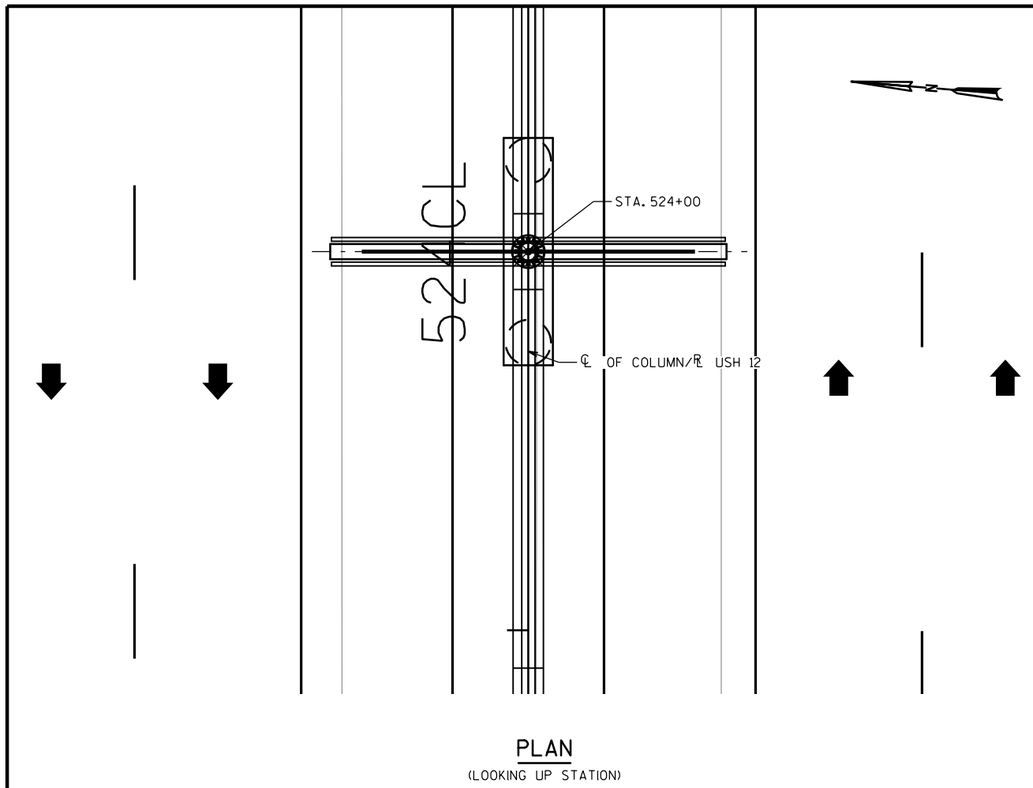
SHEET 1 OF 14

8

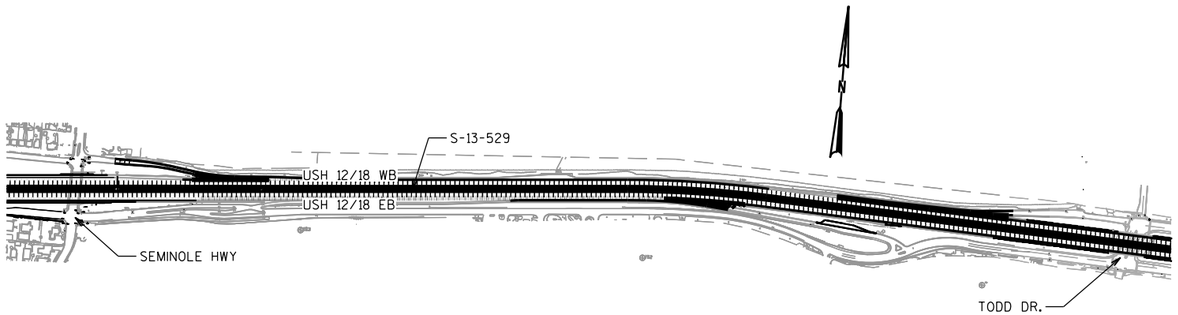
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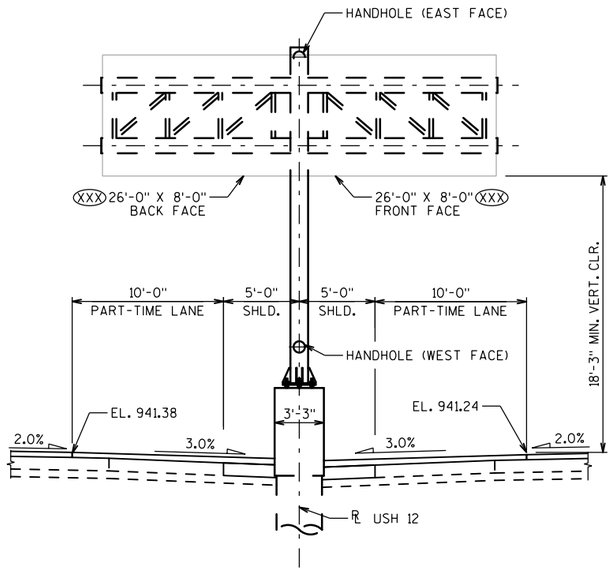
STATE PROJECT NUMBER
1206-06-79



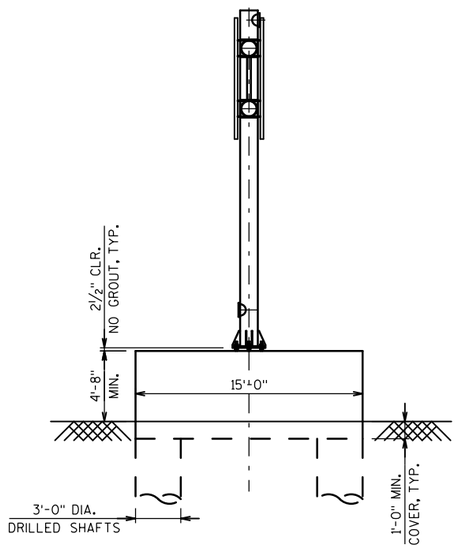
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 524+00 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-529

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-529

SHEET 2 OF 14

8

8

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\66034 Beltline DPTSU\1_Engineering\1.4_Structures\Preliminary\Bridge\S-13-529_102.dgn

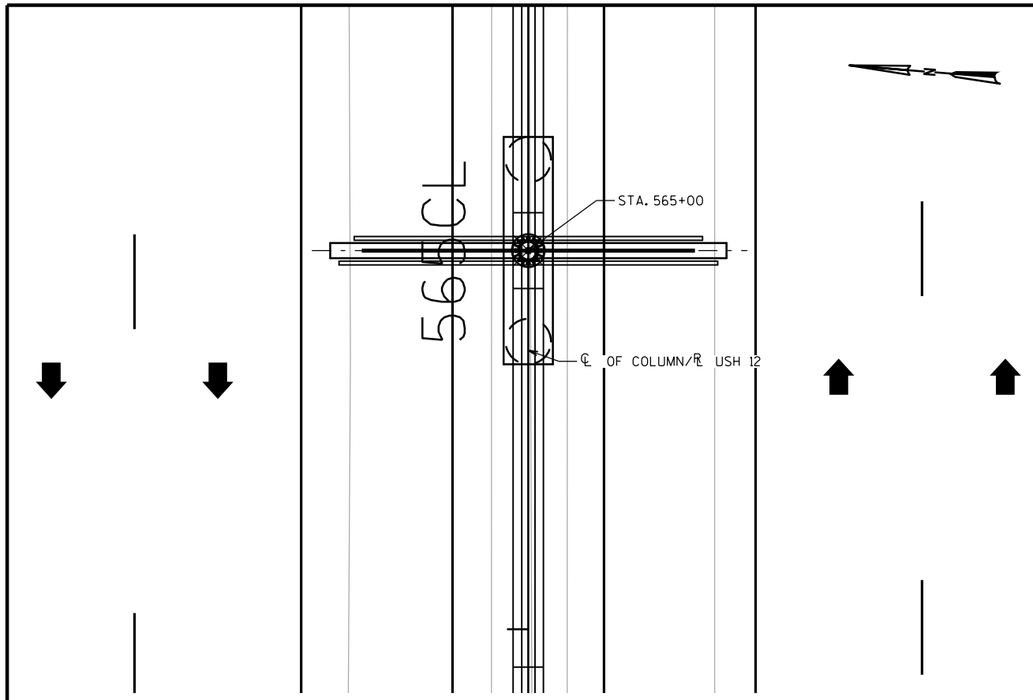
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PLOTTED BY : ejelinek

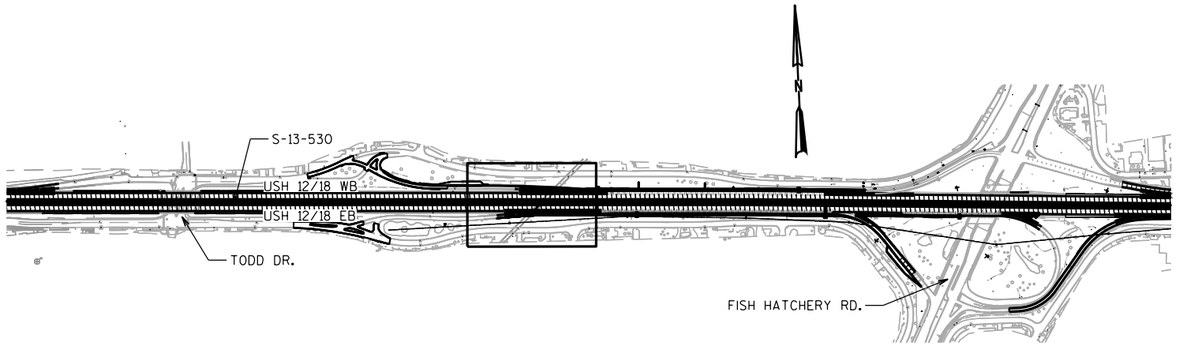
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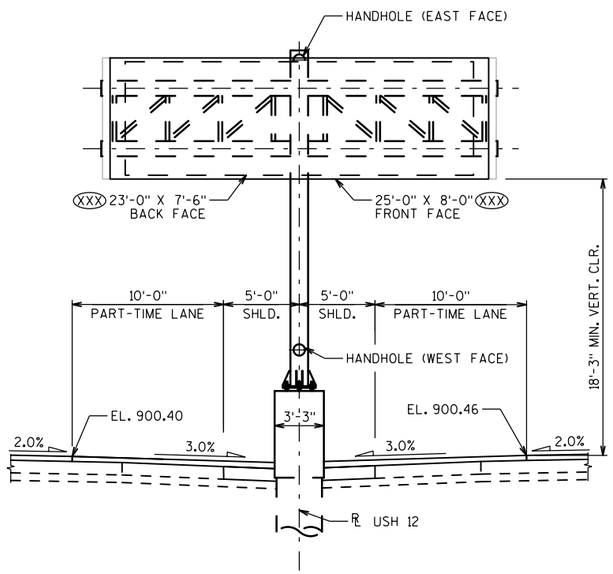
STATE PROJECT NUMBER
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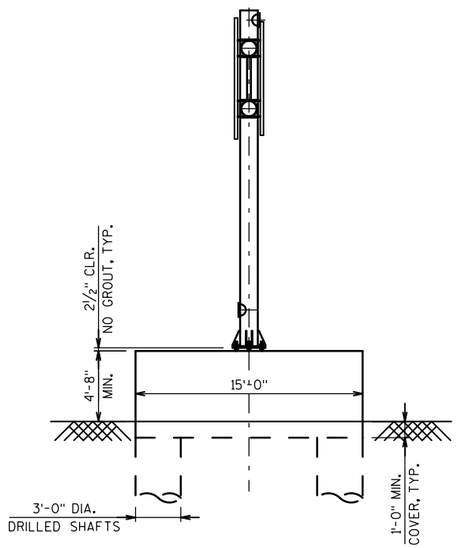
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 565+00 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-530

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-530

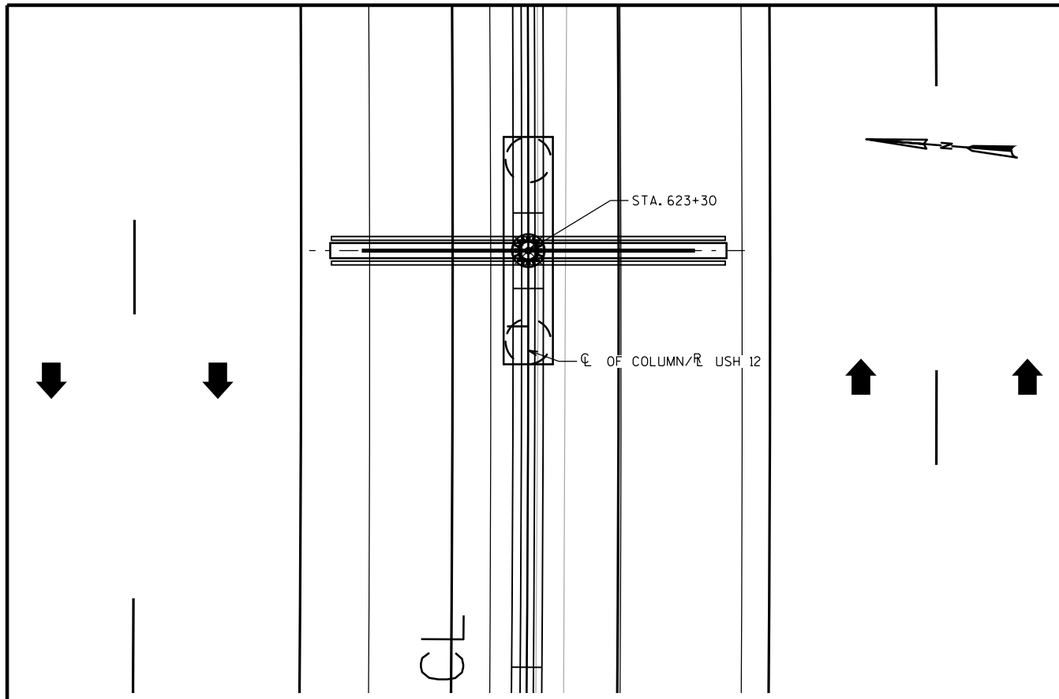
SHEET 3 OF 14

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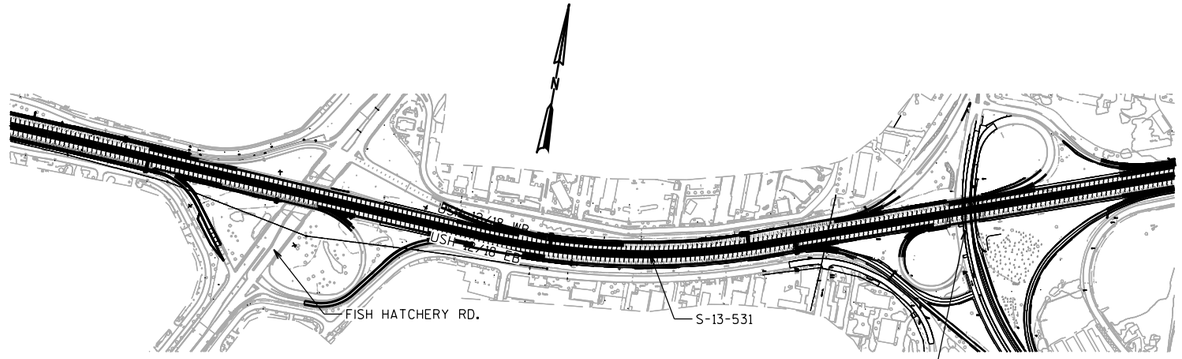
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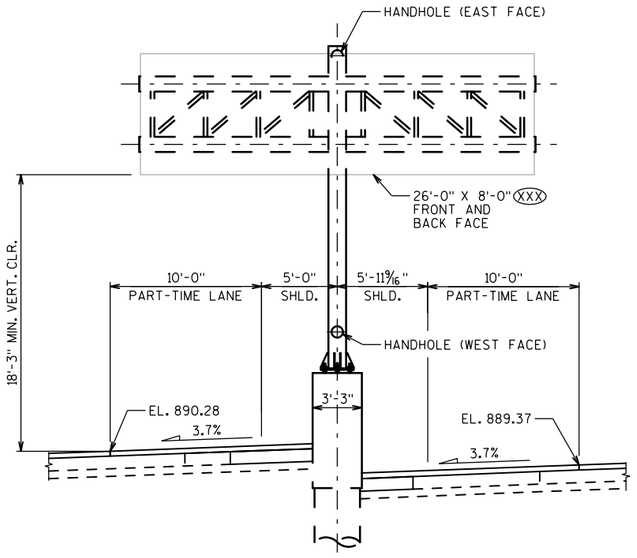
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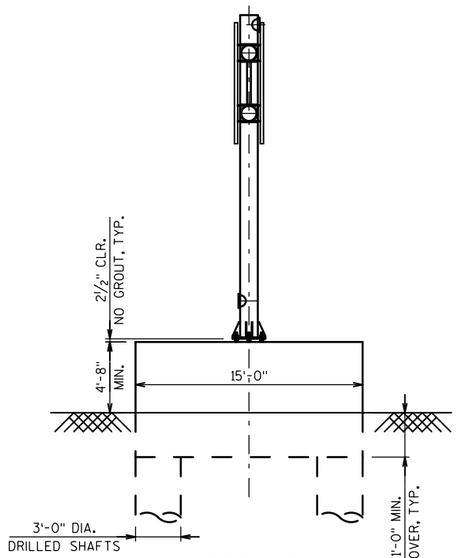
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 623+30 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-531

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-531

SHEET 4 OF 14

8

8

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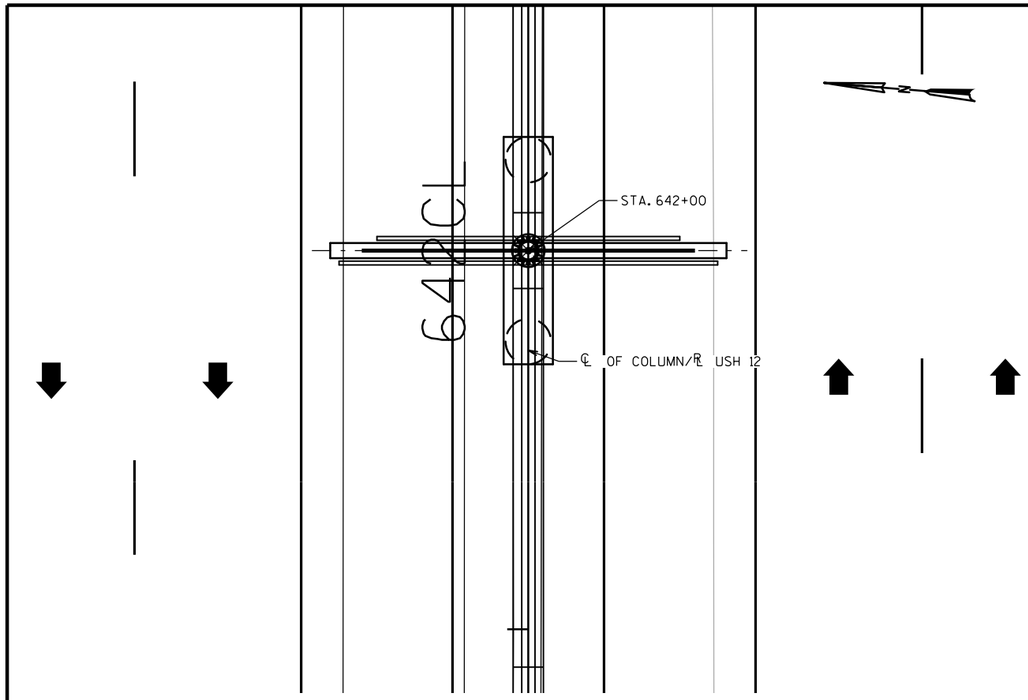
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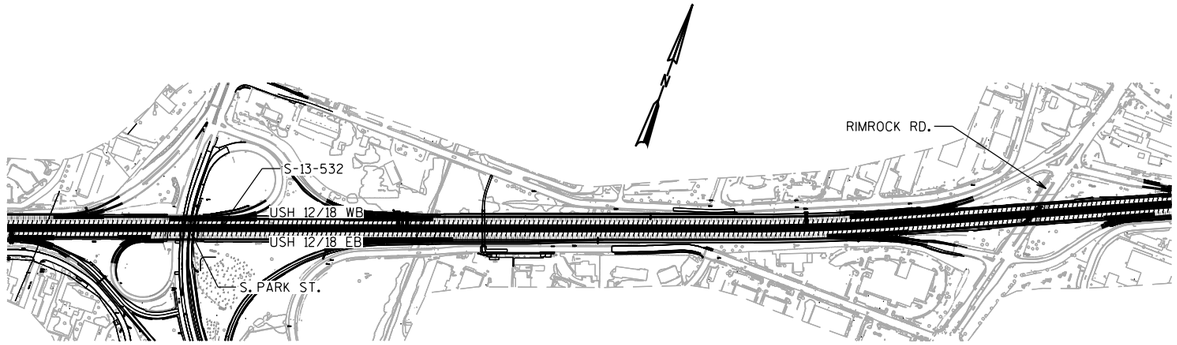
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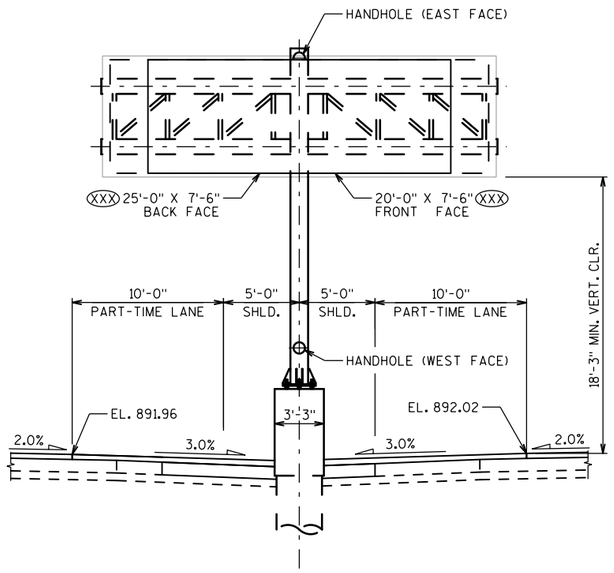
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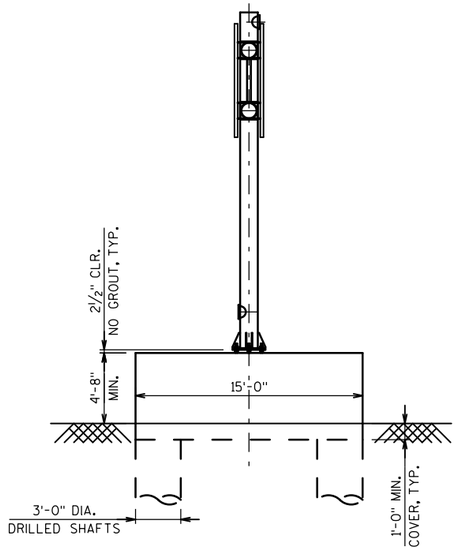
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 642+00 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

XXX SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-532

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-532

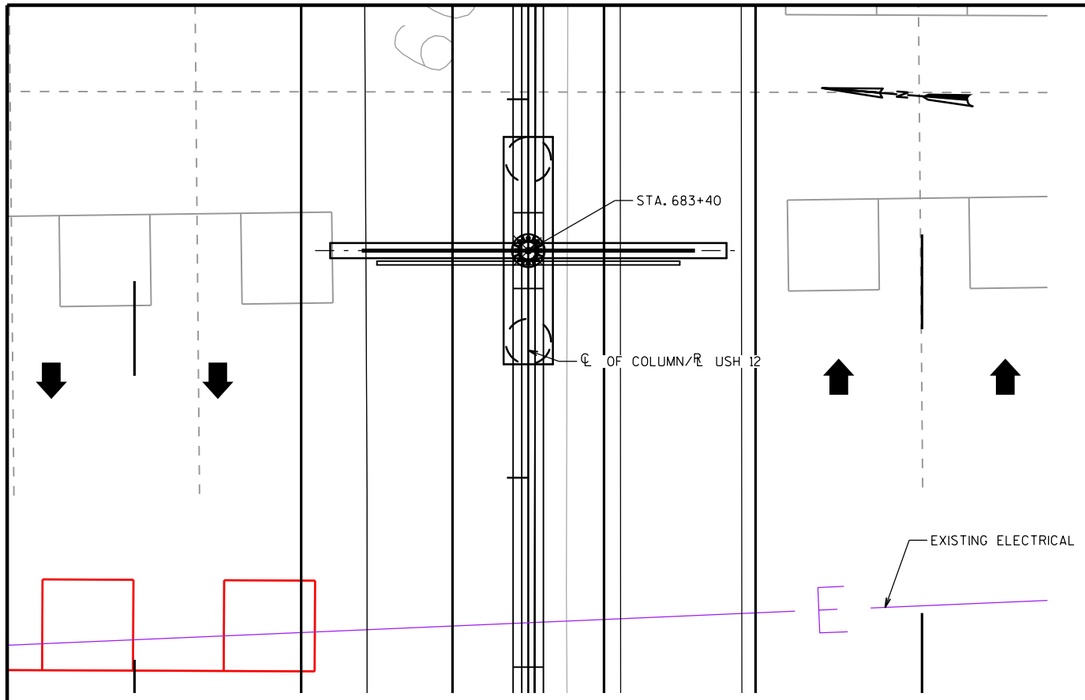
SHEET 5 OF 14

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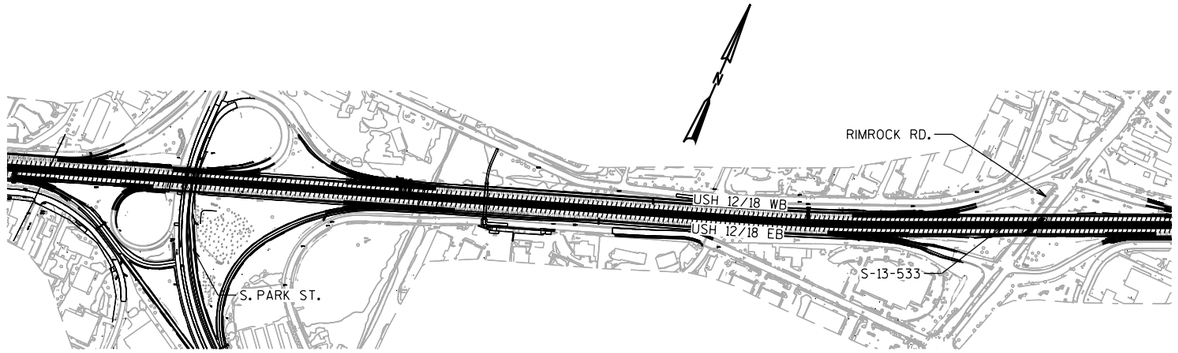
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PLOT NAME : $FILE$
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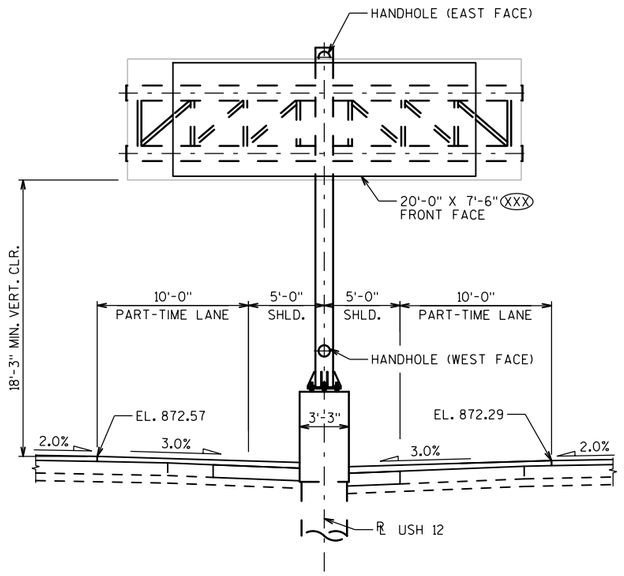
STATE PROJECT NUMBER
1206-06-79



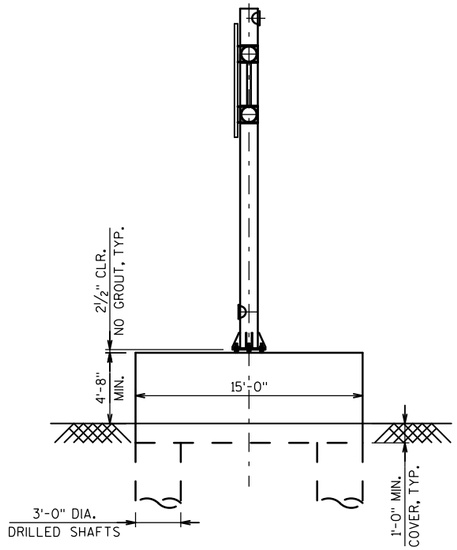
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 683+40 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-533

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-533

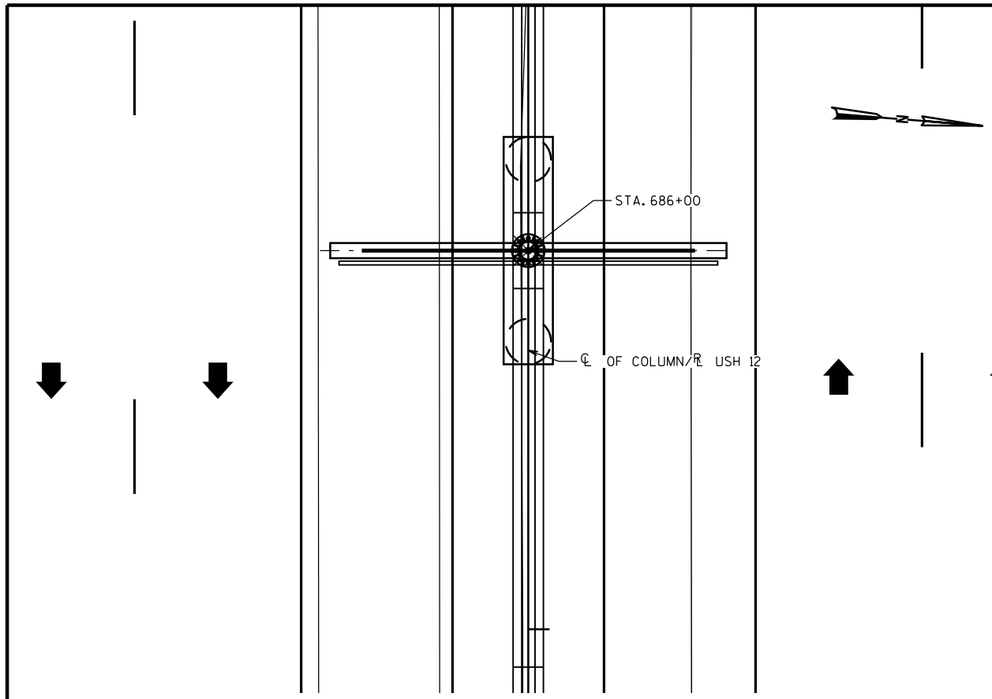
SHEET 6 OF 14

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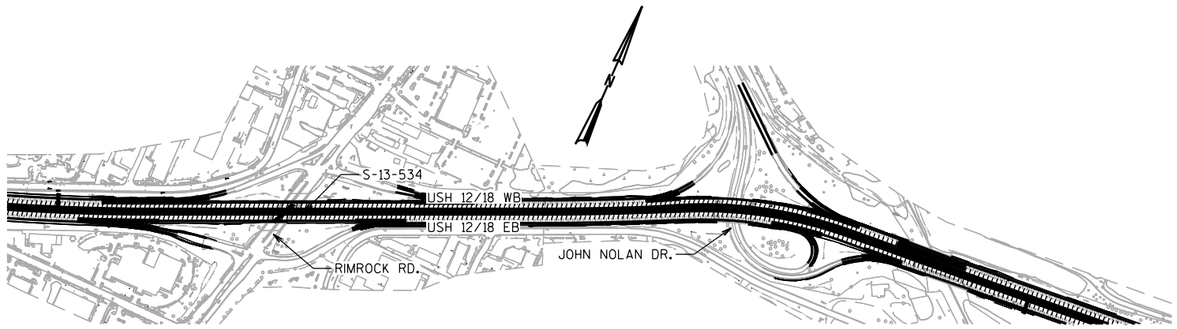
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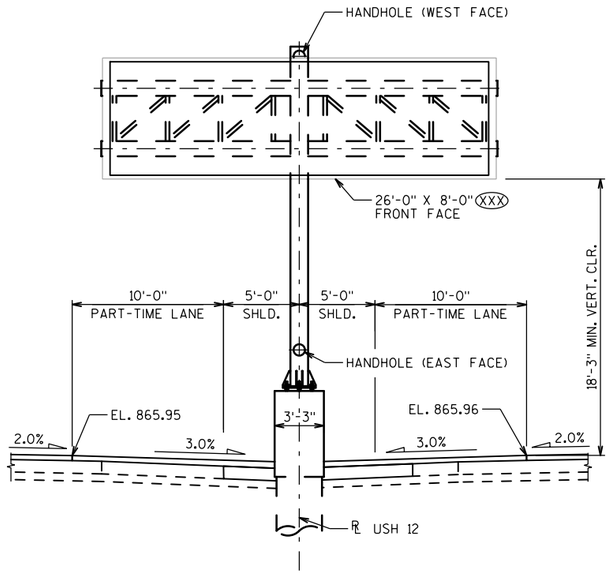
STATE PROJECT NUMBER
1206-06-79



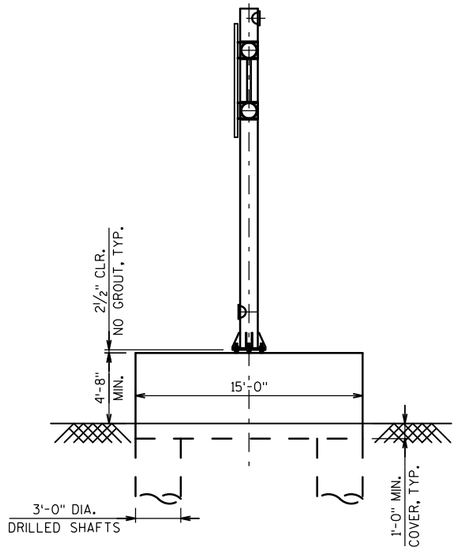
PLAN
(LOOKING DOWN STATION)



LOCATION MAP



ELEVATION
STA. 686+00 USH 12
(LOOKING WEST)



SIDE VIEW
(LOOKING SOUTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-534

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-534

SHEET 7 OF 14

8

8

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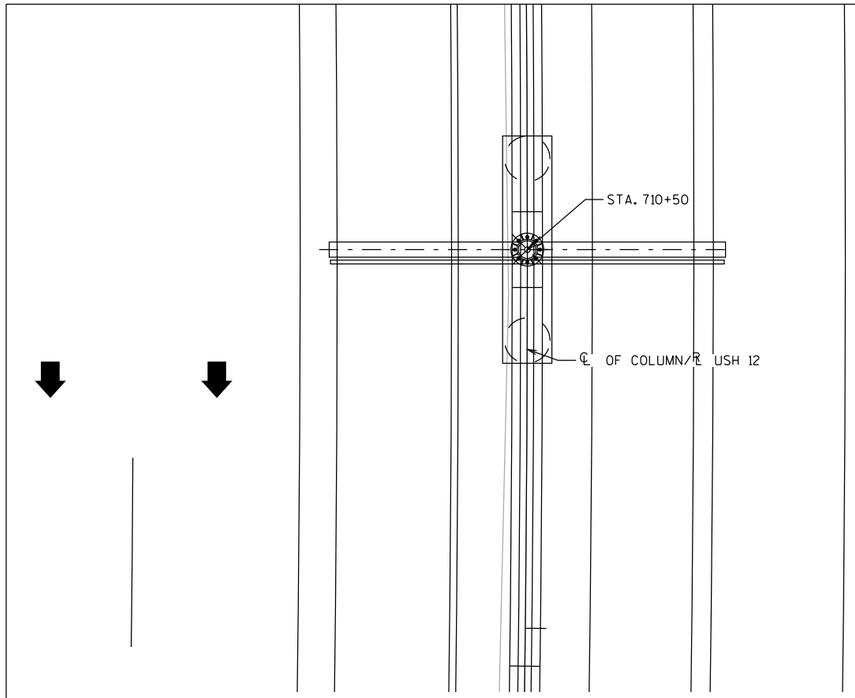
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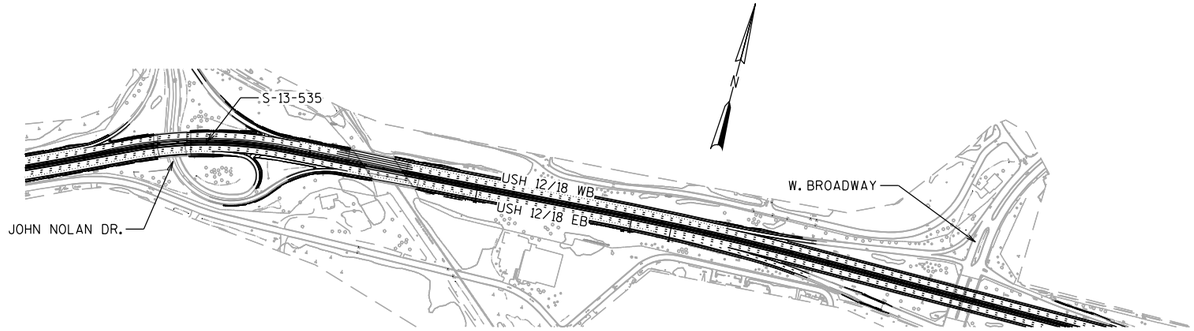
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PLOT SCALE : 10:1

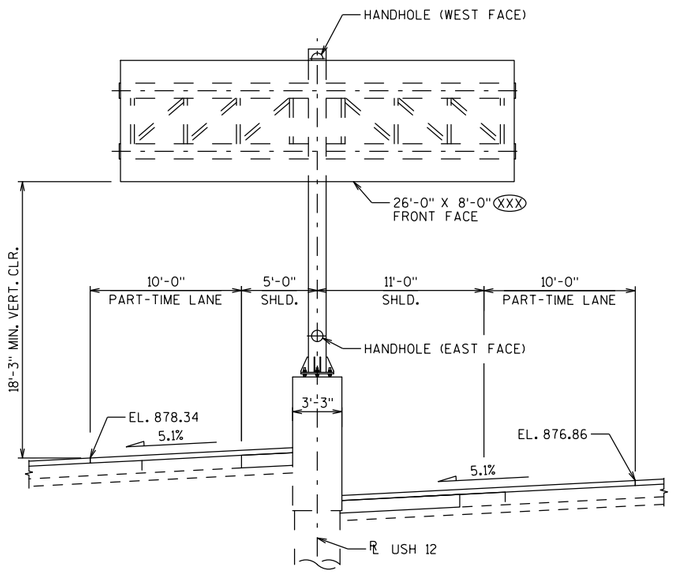
STATE PROJECT NUMBER
1206-06-79



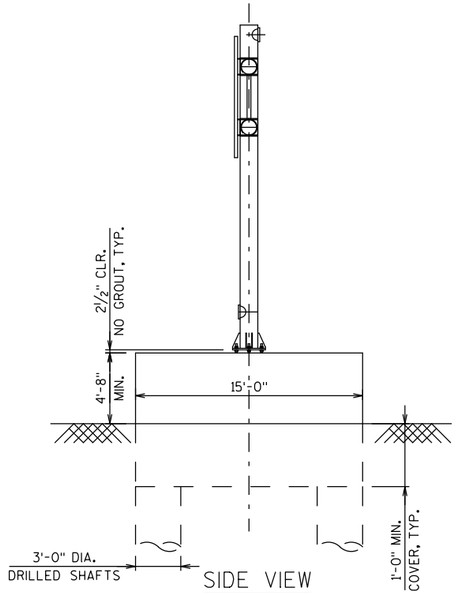
PLAN
(LOOKING DOWN STATION)



LOCATION MAP



ELEVATION
STA. 710+50 USH 12
(LOOKING WEST)



SIDE VIEW
(LOOKING SOUTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-535

DRAWN BY	PLANS CK'D.

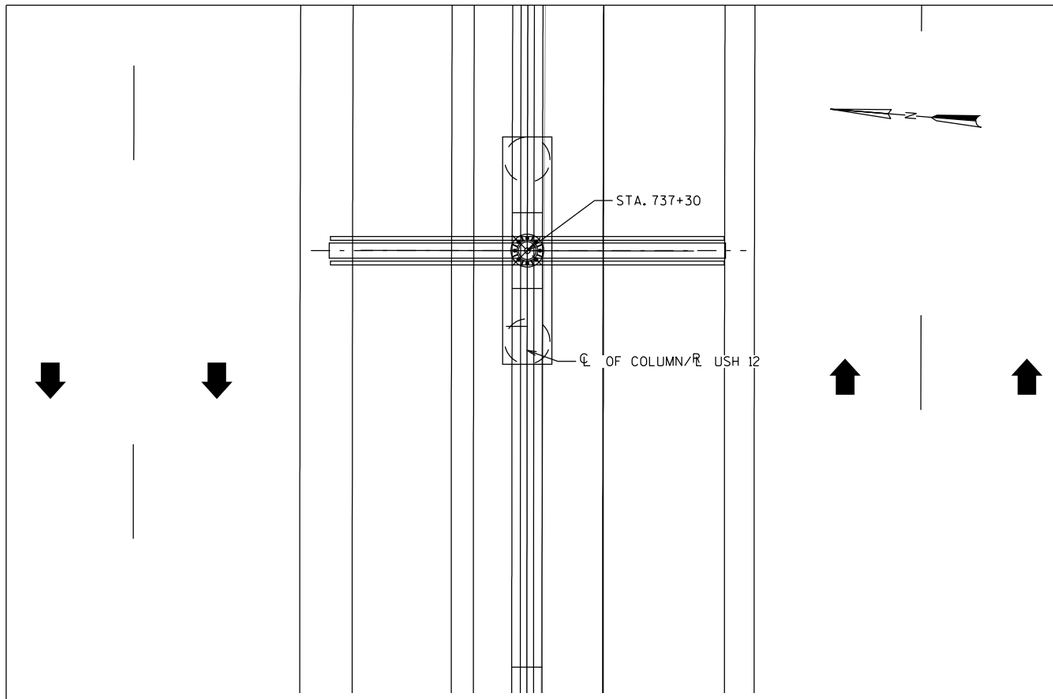
GENERAL LAYOUT
S-13-535

SHEET 8 OF 14

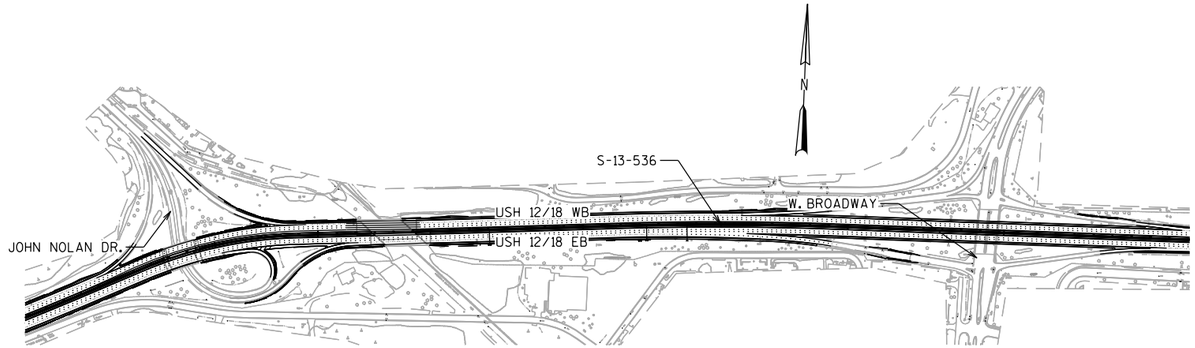
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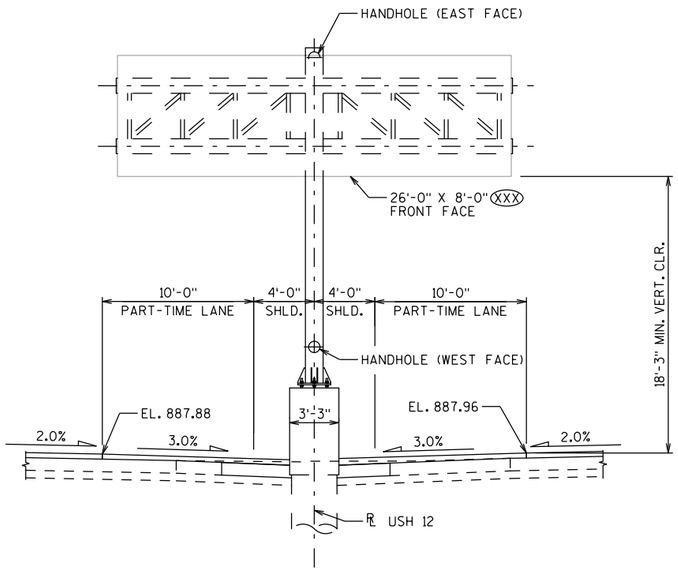
STATE PROJECT NUMBER
1206-06-79



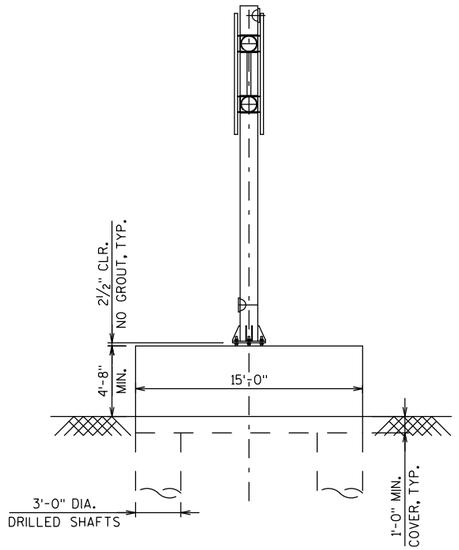
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 737+30 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING SOUTH)

LEGEND

XXX SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-536

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-536

SHEET 9 OF 14

8

8

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\66034 Beltline DPTSU\1_Engineering\1.4_Structures\Preliminary\Bridge\S13-536_109.dgn

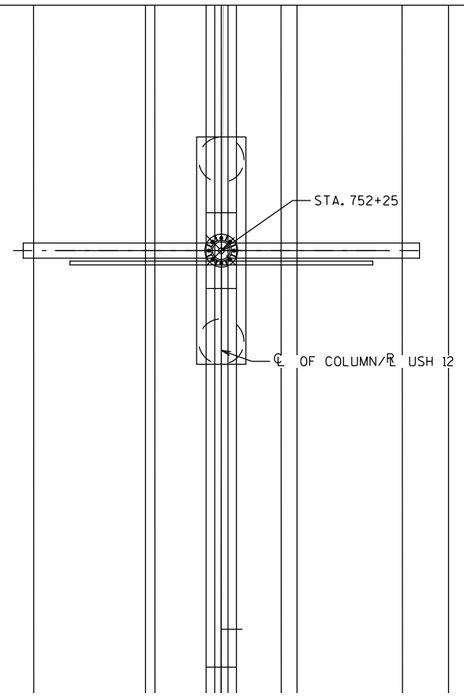
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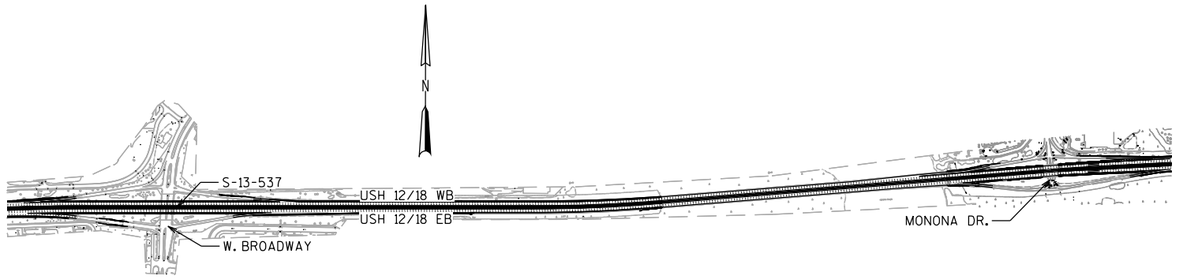
PLOT SCALE : 10:1

STATE PROJECT NUMBER
1206-06-79

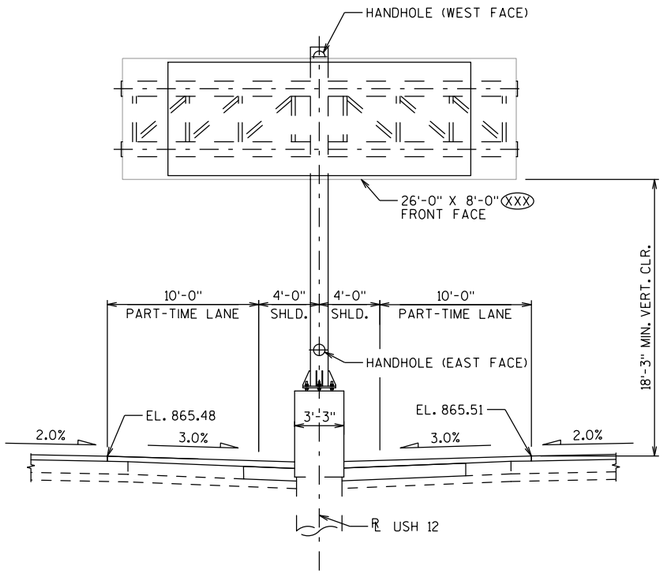


PLAN

(LOOKING DOWN STATION)

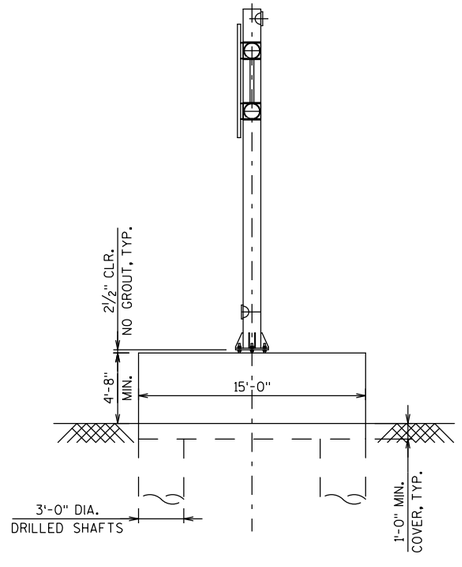


LOCATION MAP



ELEVATION

STA. 752+25 USH 12
(LOOKING WEST)



SIDE VIEW

(LOOKING SOUTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-537

DRAWN BY	PLANS CK'D.

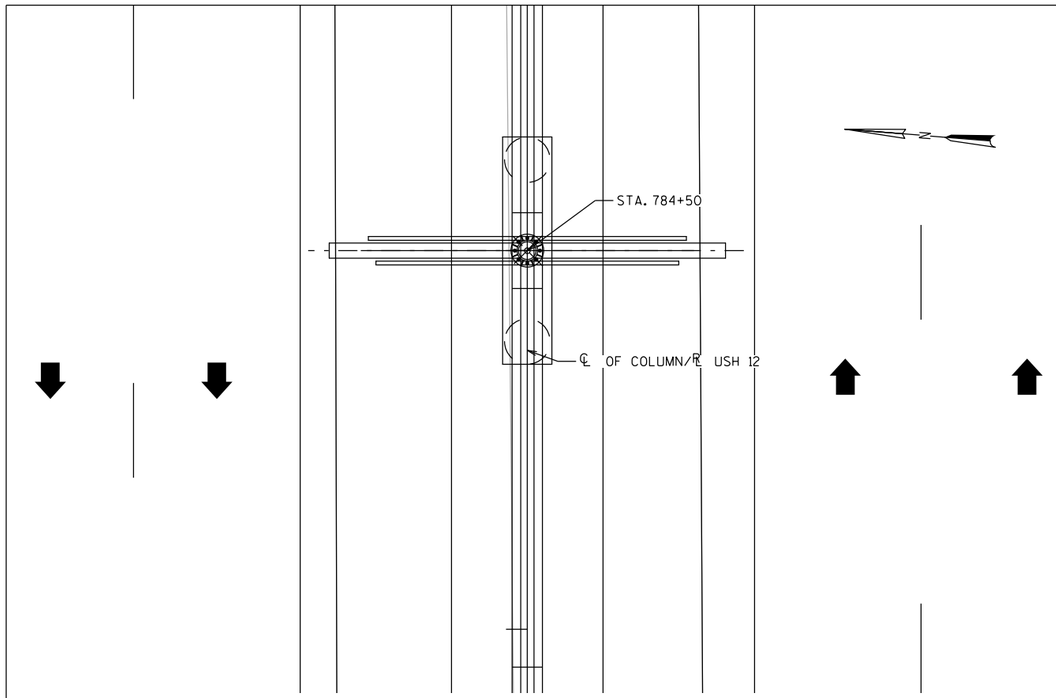
GENERAL LAYOUT
S-13-537

SHEET 10 OF 14

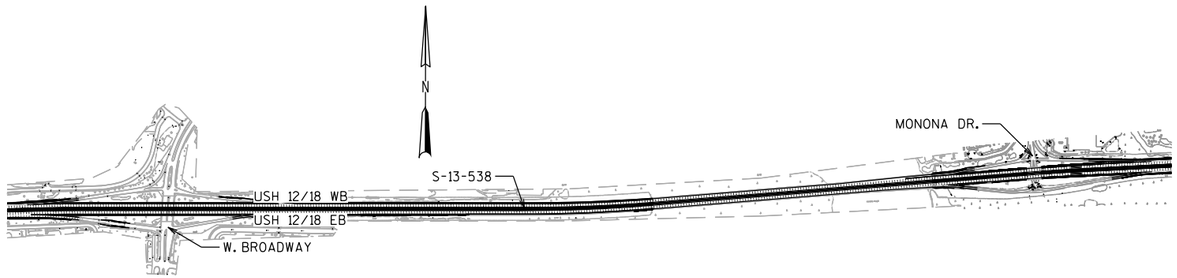
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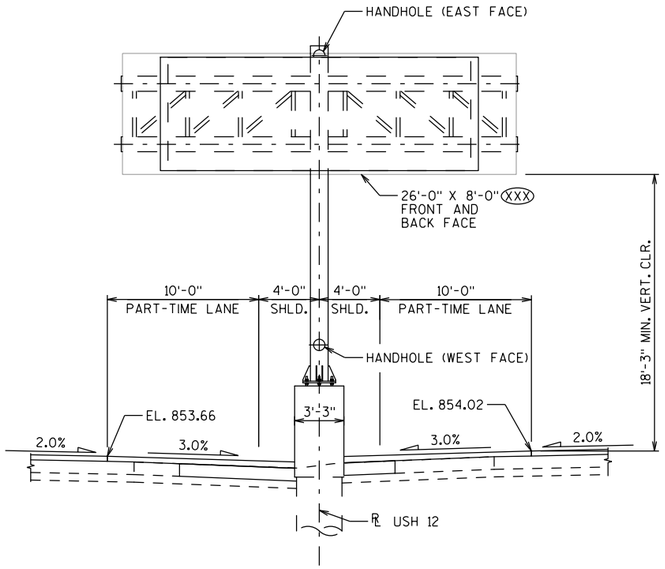
STATE PROJECT NUMBER
1206-06-79



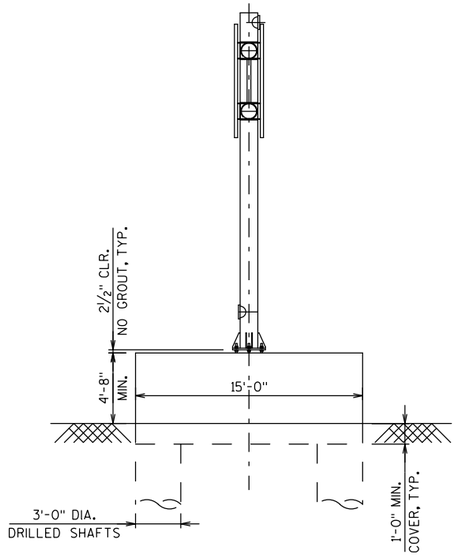
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 784+50 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-538

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-538

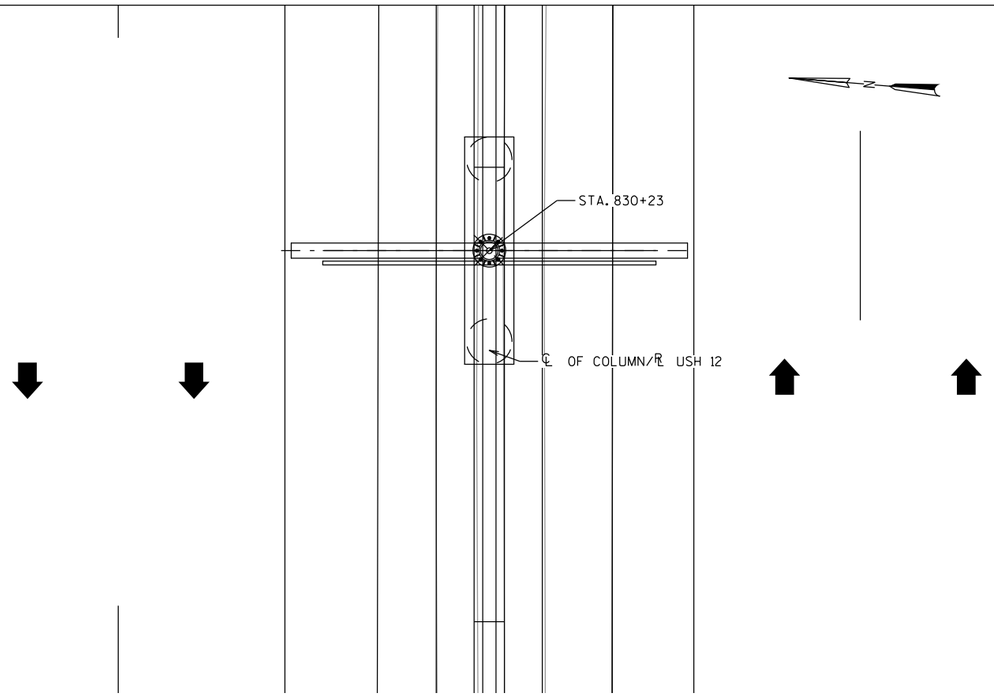
SHEET 11 OF 14

8

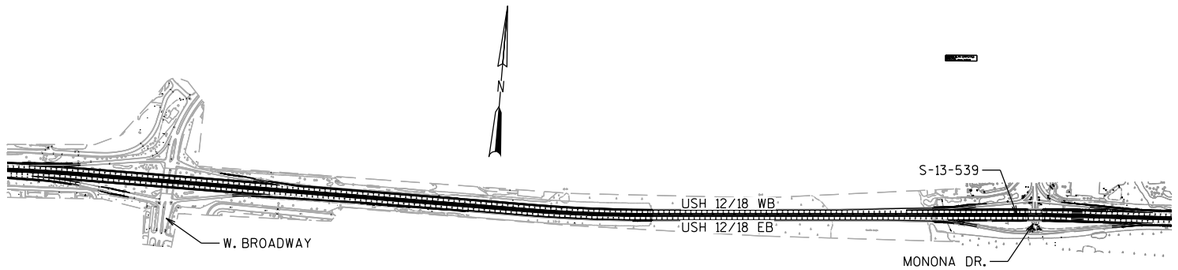
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FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\66034 Beltline DPTSU\1_Engineering\1.4_Structures\Preliminary\BDA\Temp\Acad5.08-D08_111.dwg PLOT DATE : 12/20/2023 8:51:08 AM PLOTTED BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 10:1

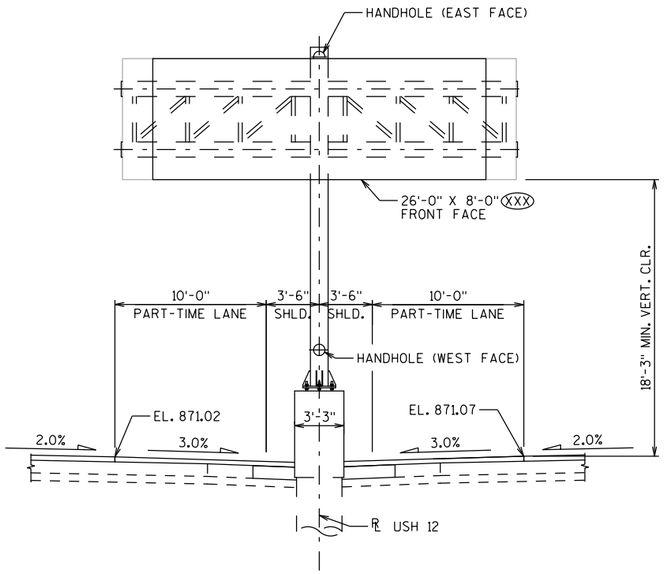
STATE PROJECT NUMBER
1206-06-79



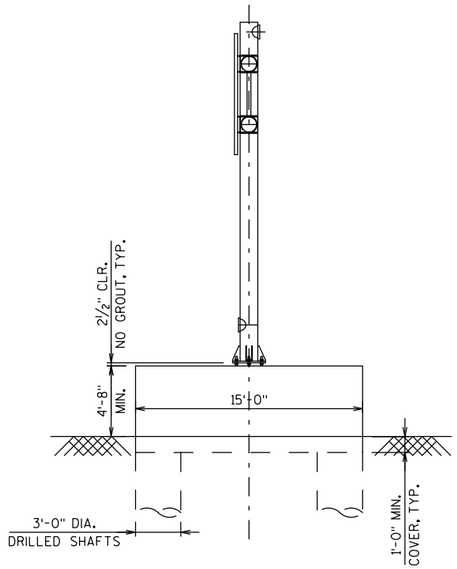
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 830+23 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-539

DRAWN BY	PLANS CK'D.

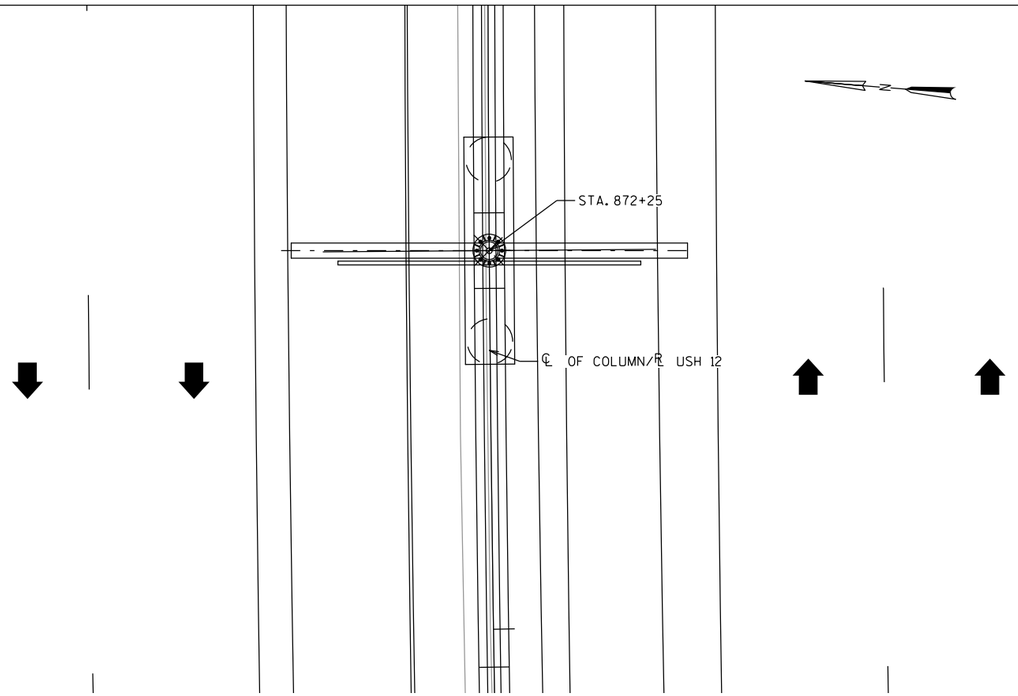
S-13-539 LAYOUT

SHEET 12 OF 14

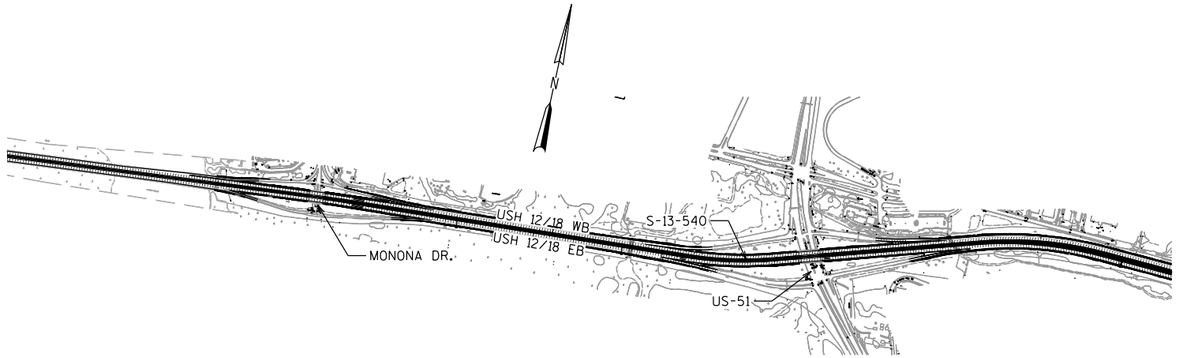
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8

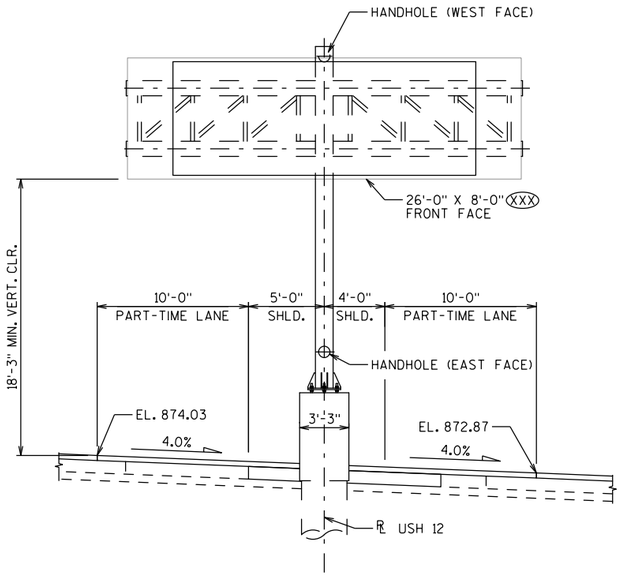
STATE PROJECT NUMBER
1206-06-79



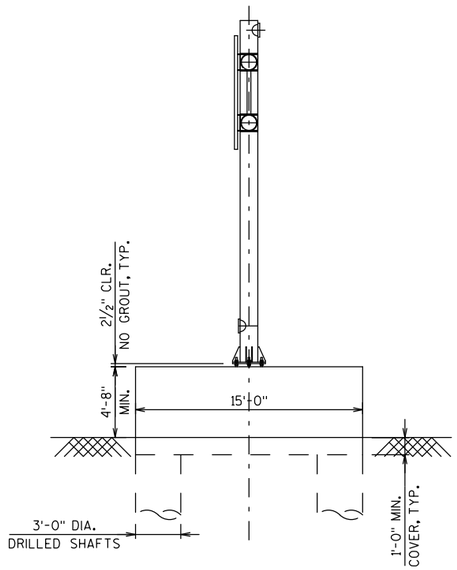
PLAN
(LOOKING DOWN STATION)



LOCATION MAP



ELEVATION
STA. 872+25 USH 12
(LOOKING WEST)



SIDE VIEW
(LOOKING SOUTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-540

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-540

SHEET 13 OF 14

8

8

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\66034 Beltline DPTSU\1_Engineering\1.4_Structures\Preliminary\Bridge\S-13-540_113.dgn

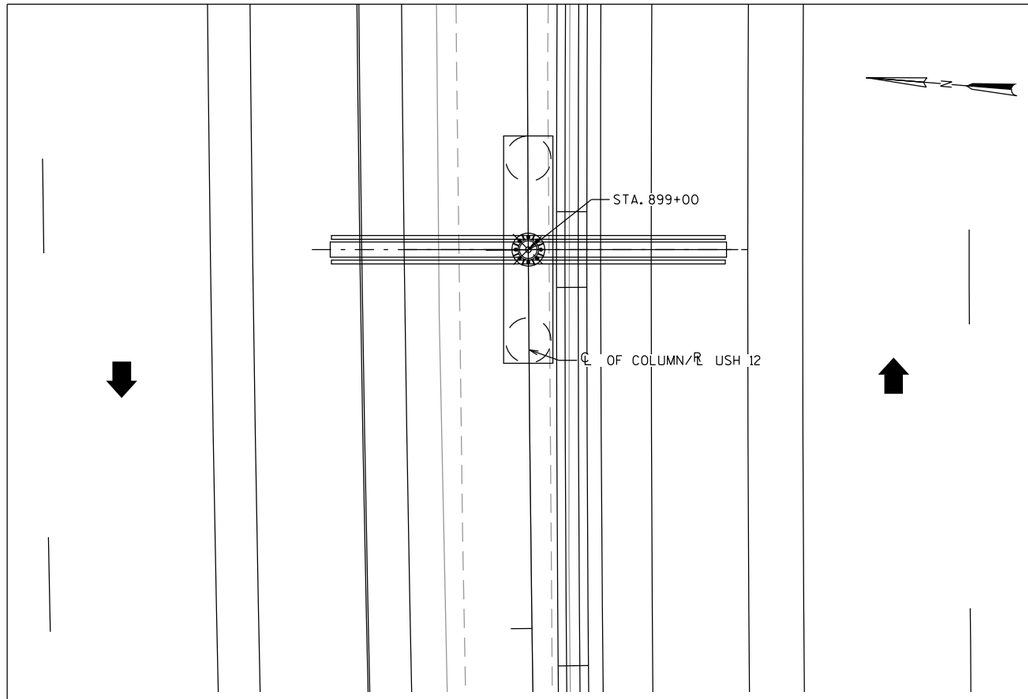
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PLOTTED BY : ejelinek

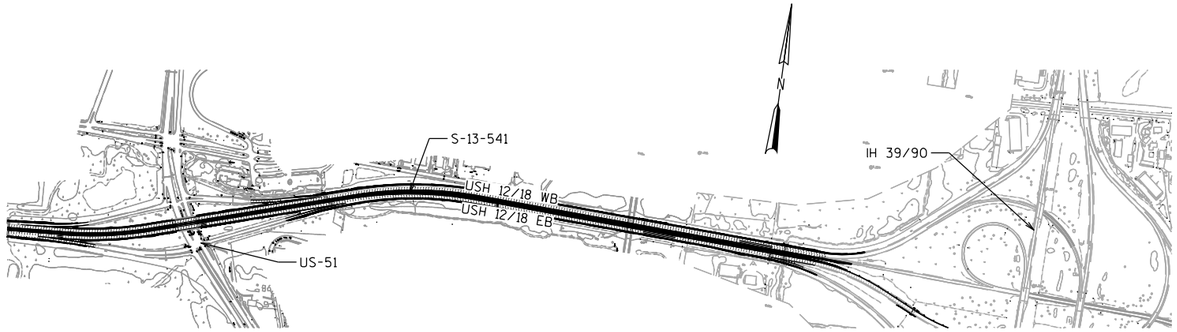
PLOT NAME : $FILE$

PLOT SCALE : 10:1

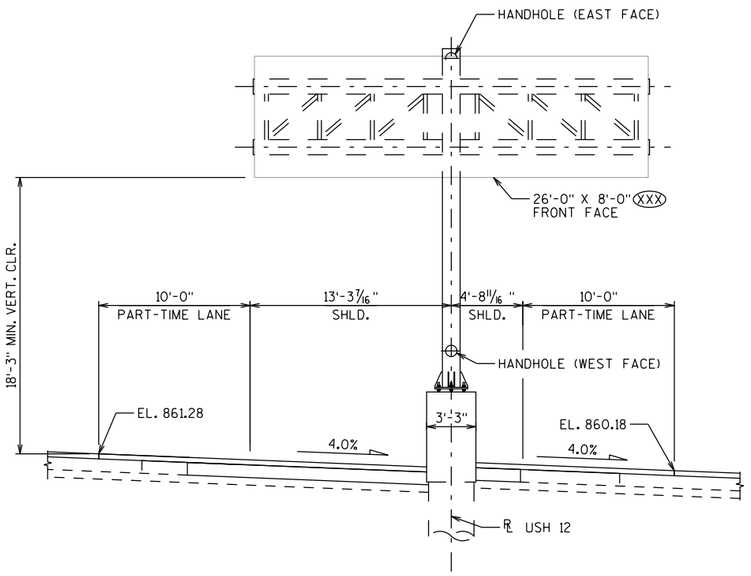
STATE PROJECT NUMBER
1206-06-79



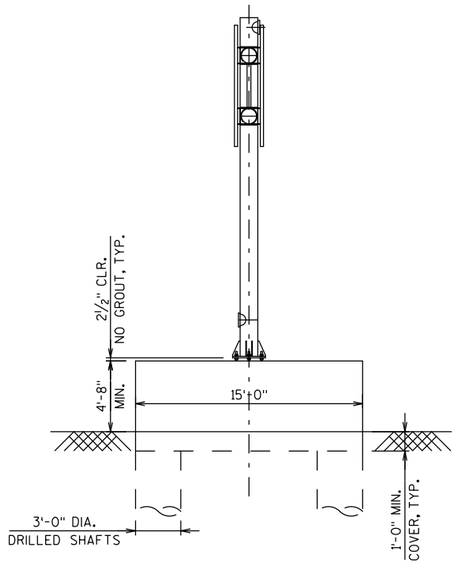
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 899+00 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

XXX SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-541

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-541

SHEET 14 OF 14

8

8

STATE PROJECT NUMBER
1206-06-79

DESIGN DATA

SIGN STR	ACTUAL SIGN AREA TYPE 1	ACTUAL SIGN AREA DMS	ACTUAL SIGN HEIGHT TYPE 1	ACTUAL SIGN HEIGHT DMS	FND TYPE
S-13-2011	XXX SF	XXX SF	X'-X"	X'-X"	C4 MODIFIED
S-13-2012	XXX SF	XXX SF	X'-X"	X'-X"	C4 MODIFIED
S-13-2013	XXX SF	XXX SF	X'-X"	X'-X"	C4 MODIFIED
S-13-2014	XXX SF	XXX SF	X'-X"	X'-X"	C4 MODIFIED
S-13-2015	XXX SF	XXX SF	X'-X"	X'-X"	C4
S-13-20XX	XXX SF	XXX SF	X'-X"	X'-X"	C4
S-13-20XX	XXX SF	XXX SF	X'-X"	X'-X"	C4 MODIFIED
S-13-2016	XXX SF	XXX SF	X'-X"	X'-X"	C4
S-13-20XX	XXX SF	XXX SF	X'-X"	X'-X"	C4 MODIFIED
S-13-2017	XXX SF	XXX SF	X'-X"	X'-X"	C4 MODIFIED
S-13-2018	XXX SF	XXX SF	X'-X"	X'-X"	C4 MODIFIED
S-13-2019	XXX SF	XXX SF	X'-X"	X'-X"	C4 MODIFIED
S-13-2020	XXX SF	XXX SF	X'-X"	X'-X"	C4 MODIFIED
S-13-2021	XXX SF	XXX SF	X'-X"	X'-X"	C4 MODIFIED
S-13-2022	XXX SF	XXX SF	X'-X"	X'-X"	C4 MODIFIED
S-13-2024	XXX SF	XXX SF	X'-X"	X'-X"	C4 MODIFIED
S-13-2025	XXX SF	XXX SF	X'-X"	X'-X"	C4 MODIFIED
S-13-2026	XXX SF	XXX SF	X'-X"	X'-X"	C4 MODIFIED
S-13-2028	XXX SF	XXX SF	X'-X"	X'-X"	C4 MODIFIED
S-13-2029	XXX SF	XXX SF	X'-X"	X'-X"	C4 MODIFIED
S-13-2031	XXX SF	XXX SF	X'-X"	X'-X"	C4
DESIGN SIGN	45.5 SF	30 SF	6'-6"	6'-0"	

ALL STRUCTURES IN THIS GROUP OF STRUCTURES ARE DESIGNED FOR THE DESIGN SIGN LOADING

CONTRACTOR DESIGNED OVERHEAD SIGN STRUCTURES SHALL BE DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL.

THE FOLLOWING INFORMATION SHALL BE USED IN THE DESIGN:
DEAD LOAD - WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD - 3 PSF TO ONE FACE OF SIGN & AROUND SURFACE OF MEMBERS.
WIND PRESSURE - 115 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1	1.0	0.0
LOAD CASE 2	0.0	1.0
LOAD CASE 3	0.75	0.75

LOAD COMBINATIONS
STRENGTH I: 1.25 DC + 1.6 LL
EXTREME I (MAX DC): 1.1 DC + 1.0 W + 1.0 ICE
EXTERME I (MIN DC): 0.9 DC + 1.0 W
SERVICE I: 1.0 DC + 1.0 W
FATIGUE I: 1.0 NWG (NATURAL WIND GUST VIBRATION)
1.0 TrG (TRUCK INDUCED GUST VIBRATION)
1.0 GVW (GALLOPING INDUCED VIBRATION) - CANTILEVER ONLY

STANDARD FOUNDATIONS ARE DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

MATERIAL PROPERTIES

CONCRETE MASONRY ---------- f'c = 3,500 psi

HIGH STRENGTH STEEL
REINFORCEMENT, GRADE 60 ---------- fy = 60,000 psi

HIGH STRENGTH BOLTS - A325 ---------- fy = 92,000 psi

ANCHOR RODS - ASTM F1554 GRADE 55 ---------- fy = 55,000 psi

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

FOUNDATION DATA

SIGN STRUCTURE FOUNDATIONS ARE SUPPORTED ON DRILLED SHAFTS THAT HAVE BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 24° (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 750 PSF (COHESIVE SOILS) AND A UNIT WEIGHT OF 125 PCF. THE GROUND WATER TABLE IS ASSUMED TO BE AT A DEPTH OF 10'-0" BELOW THE GROUND SURFACE. THE REGION GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT THE SUBSURFACE SOILS DURING DRILLING OF THE SHAFT HOLE TO CONFIRM THESE PROPERTIES PRIOR TO PLACEMENT OF THE DRILLED SHAFT CONCRETE.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DANE COUNTY ZONE, NAD 83 (2011). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2012).

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN STRUCTURE 2 CHORD TRUSS CANTILEVER S-13-XXXX" FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH ¾" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

CONNECTIONS CAN EITHER BE WELDED OR BOLTED CONNECTIONS. IF WELDED CONNECTIONS ARE USED, THE MONOTUBE OR 2-CHORD TRUSS UNIT SHALL BE GALVANIZED AS ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. FOR FULL SPAN OR CANTILEVER 2-CHORD TRUSSES, BLANKS SHALL BE 1/4 THE LENGTH OF THE SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, AND SHALL BE CENTERED ON THE SPAN. FOR FULL SPAN OR CANTILEVER MONOTUBES, BLANKS SHALL BE 1/4 THE LENGTH OF THE SPAN, 4'-0" IN HEIGHT, AND SHALL BE CENTERED ON THE SPAN. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES AND STORM SEWER IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AND STORM SEWER AS MAY BE NECESSARY TO AVOID DAMAGE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON SHOP DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "FOUNDATION DRILLING".

TRAFFIC VOLUME

A.D.T. (2036) = 139,650-164,190
R.D.S. = 60 MPH

LIST OF DRAWINGS

1. GENERAL NOTES & DESIGN DATA
2. QUANTITES
3. GENERAL LAYOUT S-13-2011
4. GENERAL LAYOUT S-13-2012
5. GENERAL LAYOUT S-13-2013
6. GENERAL LAYOUT S-13-2014
7. GENERAL LAYOUT S-13-2015
8. GENERAL LAYOUT S-13-20XX
9. GENERAL LAYOUT S-13-20XX
10. GENERAL LAYOUT S-13-2016
11. GENERAL LAYOUT S-13-20XX
12. GENERAL LAYOUT S-13-2017
13. GENERAL LAYOUT S-13-2018
14. GENERAL LAYOUT S-13-2019
15. GENERAL LAYOUT S-13-2020
16. GENERAL LAYOUT S-13-2021
17. GENERAL LAYOUT S-13-2022
18. GENERAL LAYOUT S-13-2024
19. GENERAL LAYOUT S-13-2025
20. GENERAL LAYOUT S-13-2026
21. GENERAL LAYOUT S-13-2028
22. GENERAL LAYOUT S-13-2029
23. GENERAL LAYOUT S-13-2031
24. MODIFIED 2-CHORD TRUSS FOUNDATION

LIST OF OSS STANDARD DESIGN DRAWINGS

25. I. OSS MONOTUBE & 2-CHORD TRUSS STANDARD FOUNDATIONS

STRUCTURE DESIGN CONTACTS
BUREAU OF STRUCTURES:
SUPERVISOR:
AARON BONK (608) 261-0261

CONSULTANT:
PAT CASHIN (414) 359-2300

1078 PLANS

THE DESIGNER CERTIFIES THAT THE SIGN STRUCTURE GEOMETRY AND STANDARD FOUNDATION CHOSEN ARE CONSISTENT WITH THE GUIDANCE PROVIDED IN THE CURRENT WISCONSIN BRIDGE MANUAL CHAPTER 39.

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY
HNTB (414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

2 CHORD TRUSS PLANS

CANTILEVER DPTSU SIGN STRUCTRES USH 12/18 EB&WB

COUNTY	CITY OR TOWN
DANE	MADISON

DESIGN SPEC.
AASHTO LRFDLTS-1 W/INTERIMS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.

GENERAL NOTES & DESIGN DATA

SHEET 1 OF 25

8

8

STATE PROJECT NUMBER
1206-06-79

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEMS	UNIT	S-13-2011	S-13-2012	S-13-2013	S-13-2014	S-13-2015	S-13-20XX	S-13-20XX	S-13-2016	S-13-20XX	S-13-2017	S-13-2018	S-13-2019	S-13-2020	S-13-2021	S-13-2022	S-13-2024	S-13-2025	S-13-2026	S-13-2028	S-13-2029	S-13-2031
502.3210	PIGMENTED SURFACE SEALER	SY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
531.0036	FOUNDATION DRILLING 36-INCH	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
531.1000	ANCILLARY STRUCTURES CONCRETE MASONRY	CY	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
531.2400	ANCILLARY STRUCTURES STEEL REINFORCEMENT HS	LB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
531.2600	ANCILLARY STRUCTURES STEEL REINFORCEMENT HS COATED	LB	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
531.6050	ANCHOR ASSEMBLIES 2-INCH	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-2011	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-2012	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-2013	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-2014	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-2015	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-20XX	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-20XX	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-2016	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-20XX	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-2017	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-2018	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-2019	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-2020	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-2021	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-2022	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-2024	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-2025	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-2026	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-2028	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-2029	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
532.0300.XX	OVERHEAD SIGN STRUCTURE 2-CHORD TRUSS CANTILEVER S-13-2031	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
653.XXXX	JUNCTION BOXES (SIZE)	EA	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

2 CHORD TRUSS PLANS

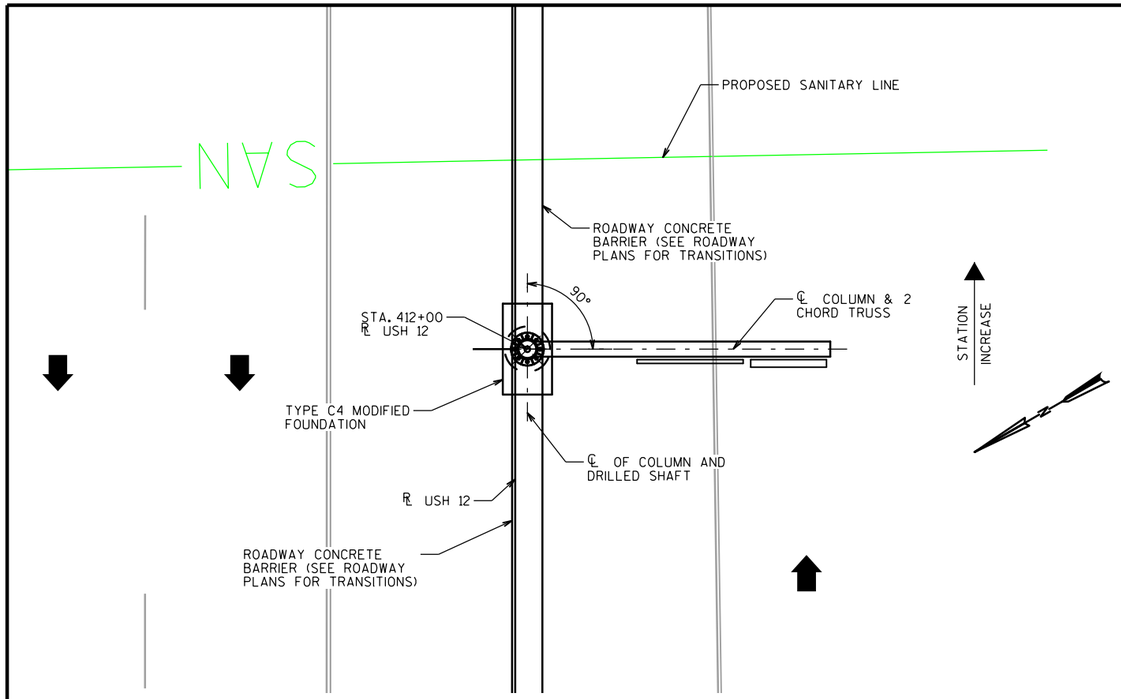
DRAWN BY	PLANS CK'D.

QUANTITES

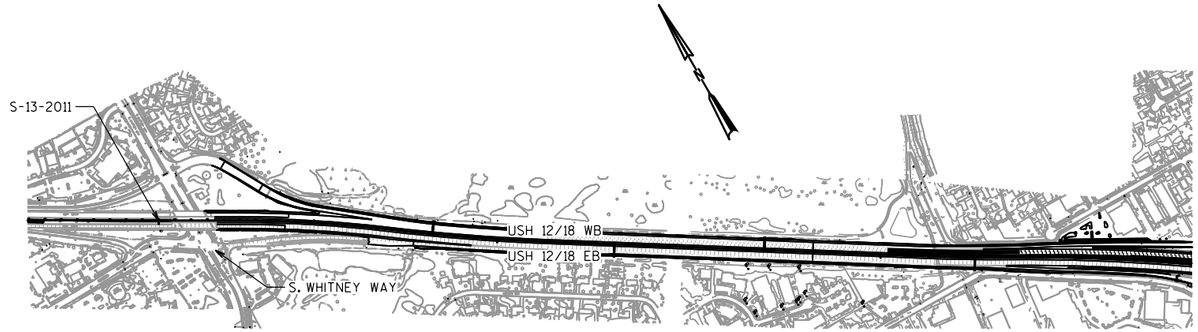
SHEET 2 OF 25

1078 PLANS

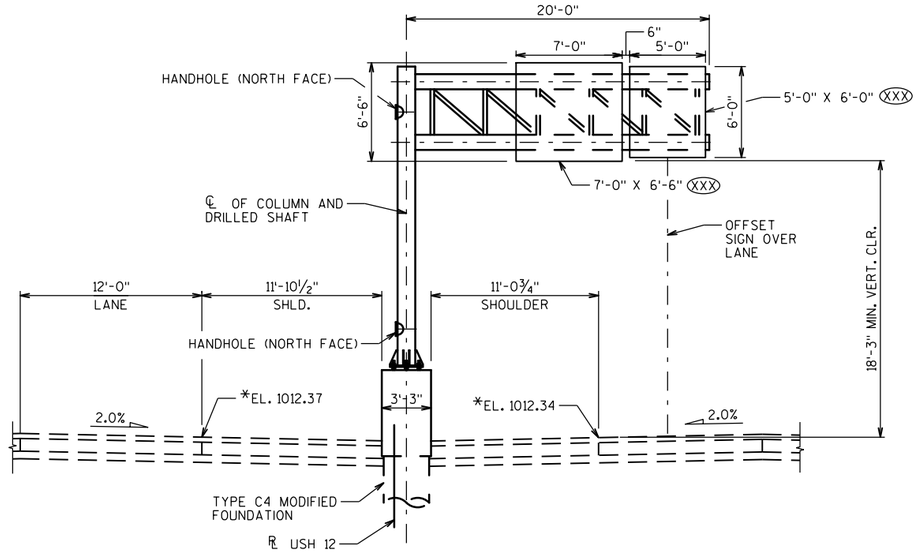
STATE PROJECT NUMBER
1206-06-79



PLAN

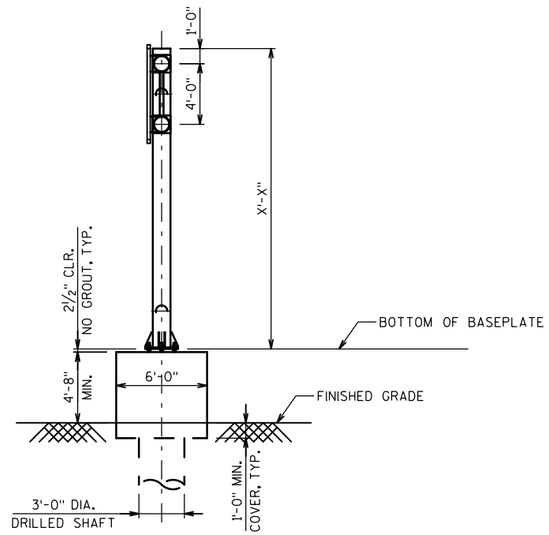


LOCATION MAP



ELEVATION

STA. 412+00 USH 12
(LOOKING UPSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING NORTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 412+00.00, 13.0' RT., EL. 1012.34

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2011

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2011

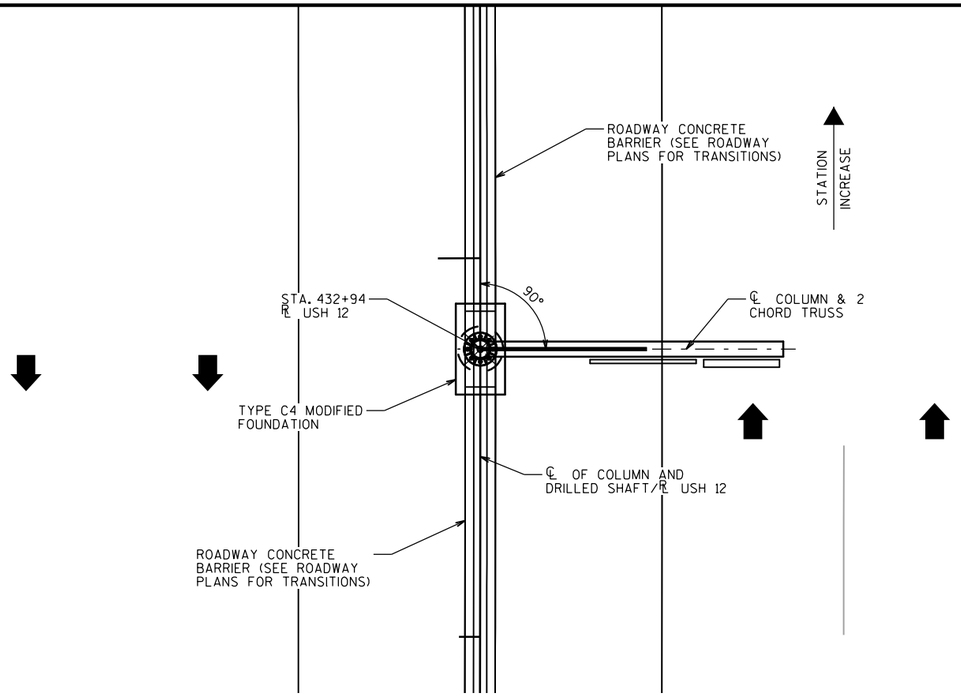
SHEET 3 OF 25

8

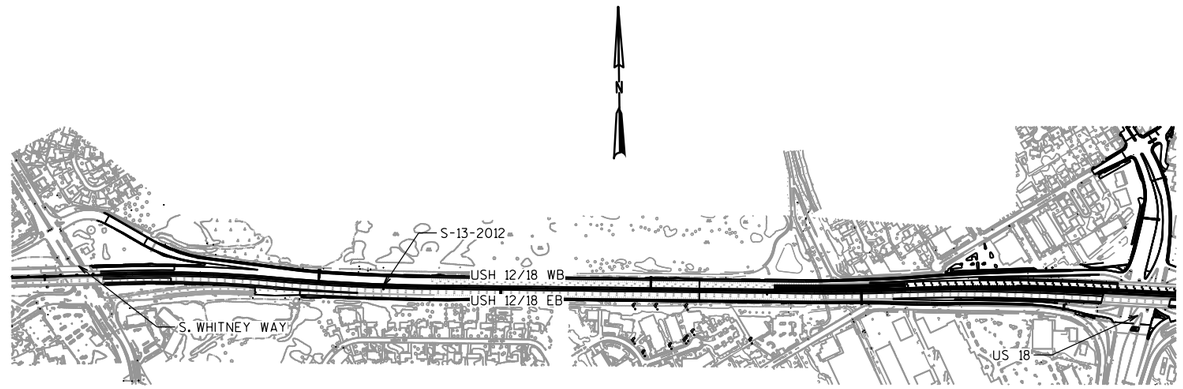
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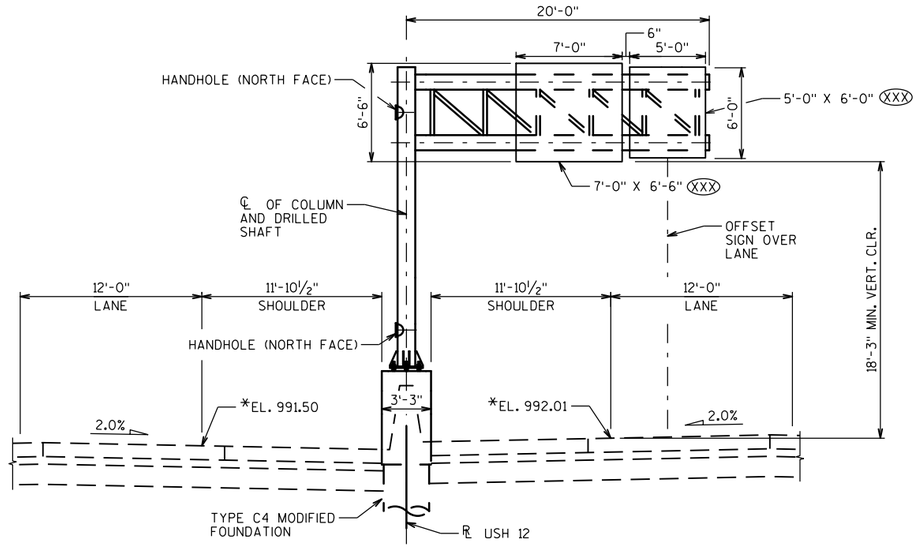
STATE PROJECT NUMBER
1206-06-79



PLAN

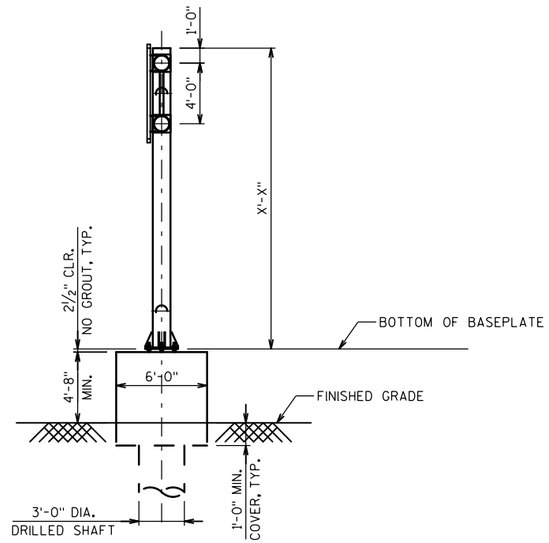


LOCATION MAP



ELEVATION

STA. 432+94 USH 12
(LOOKING UPSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING NORTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 432+94.00, 13.5' RT., EL. 992.01

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2012

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2012

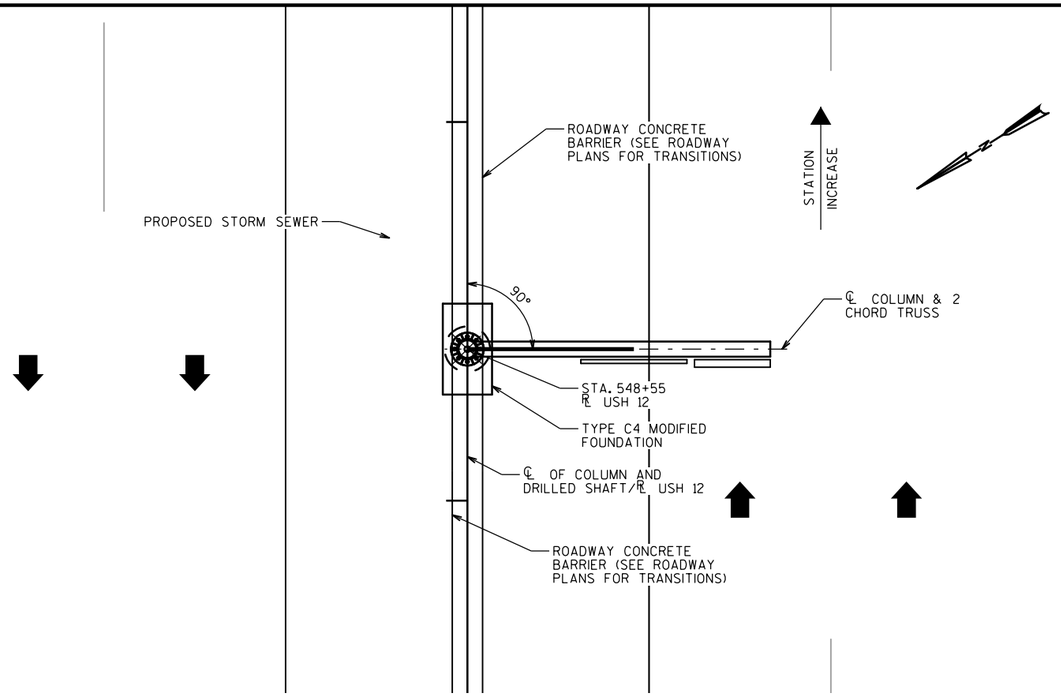
SHEET 4 OF 25

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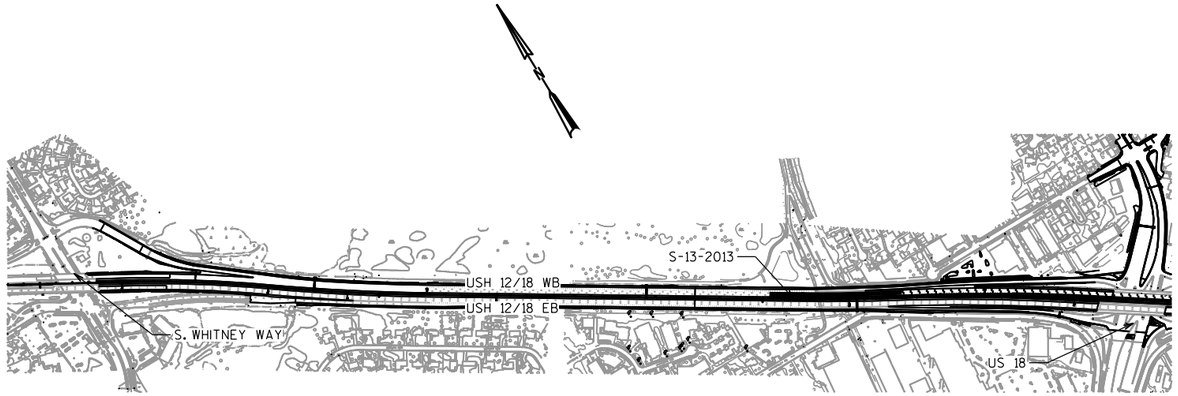
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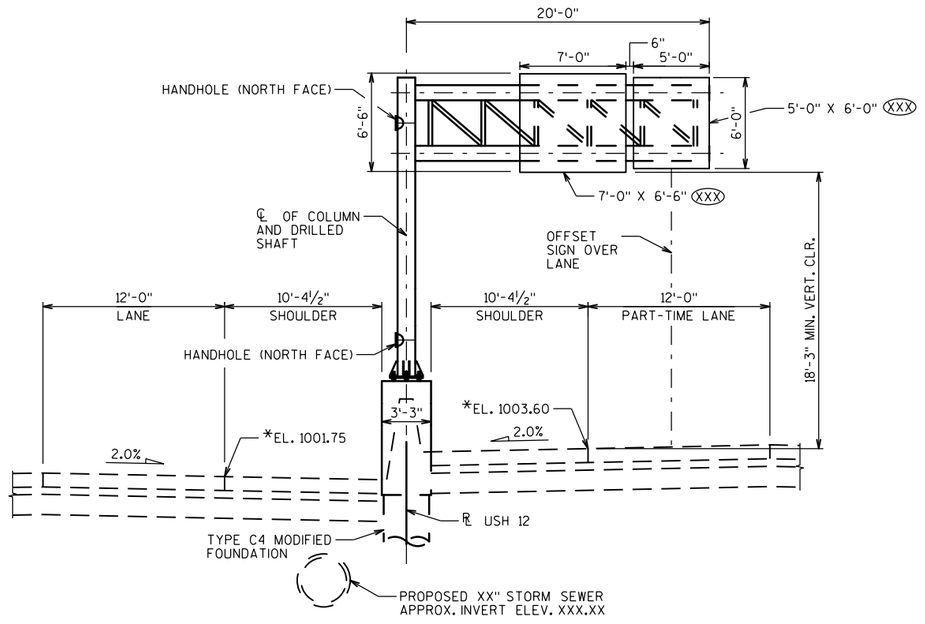
STATE PROJECT NUMBER
1206-06-79



PLAN

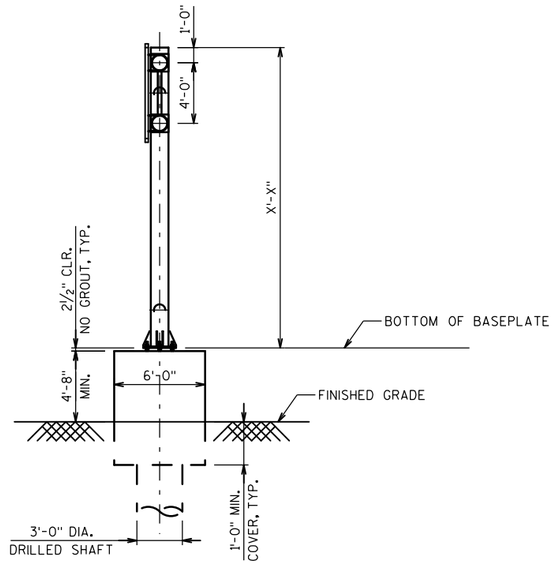


LOCATION MAP



ELEVATION

STA. 458+55 USH 12
(LOOKING UPSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING NORTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 458+55.00, 12.0' RT., EL. 1003.60

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2013

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2013

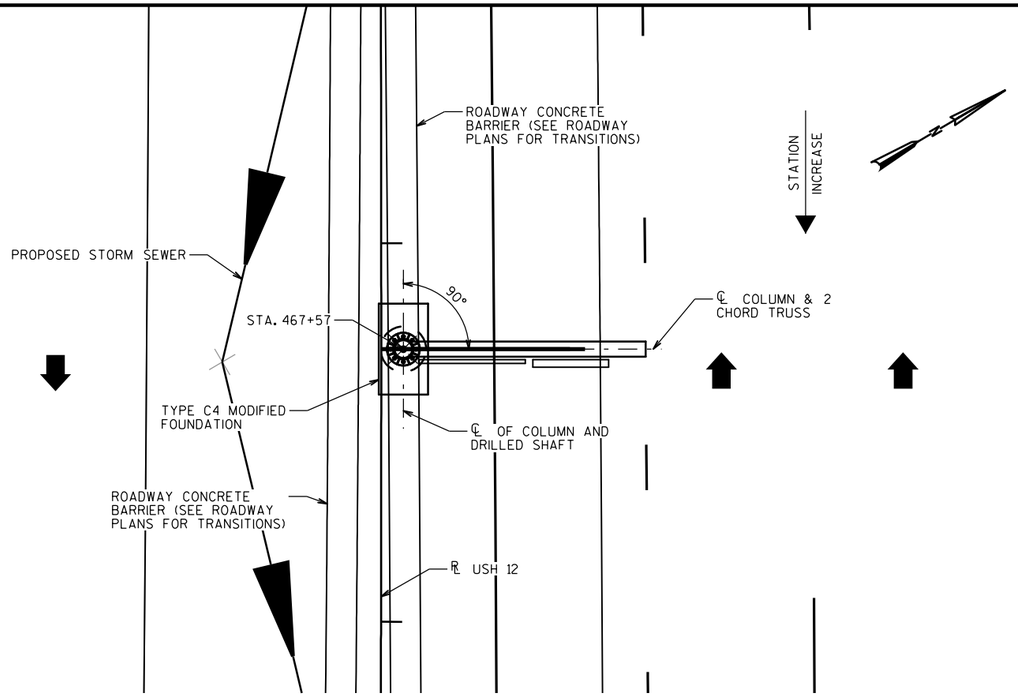
SHEET 5 OF 25

8

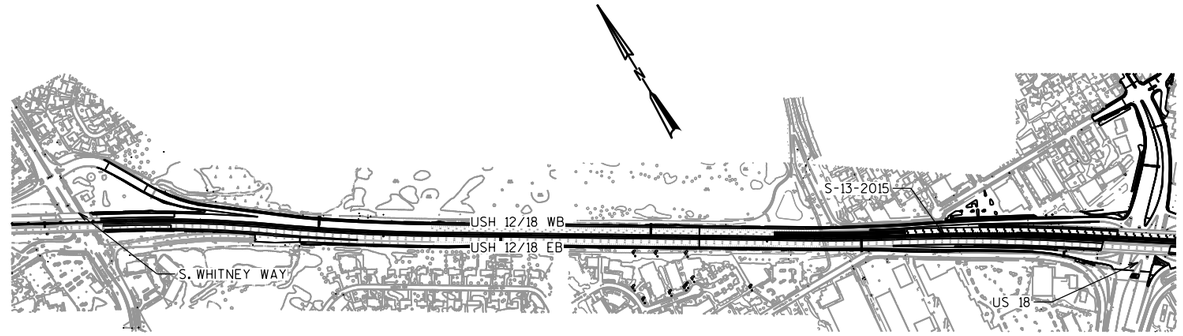
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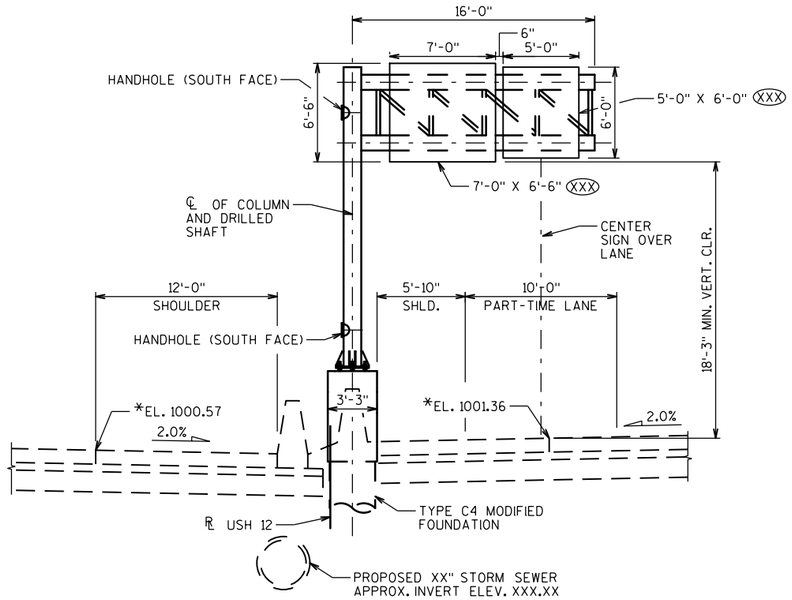
STATE PROJECT NUMBER
1206-06-79



PLAN

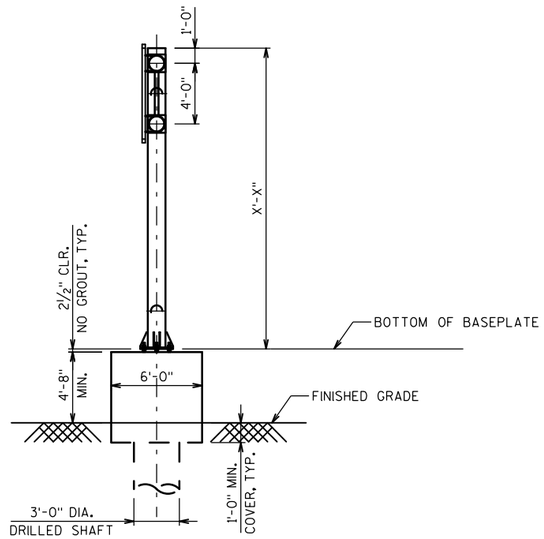


LOCATION MAP



ELEVATION

STA. 467+57 USH 12
(LOOKING DOWNSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING NORTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 467+57.00, 14.5' RT., EL. 1001.36

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2014

DRAWN BY | PLANS CK'D.

GENERAL LAYOUT
S-13-2014

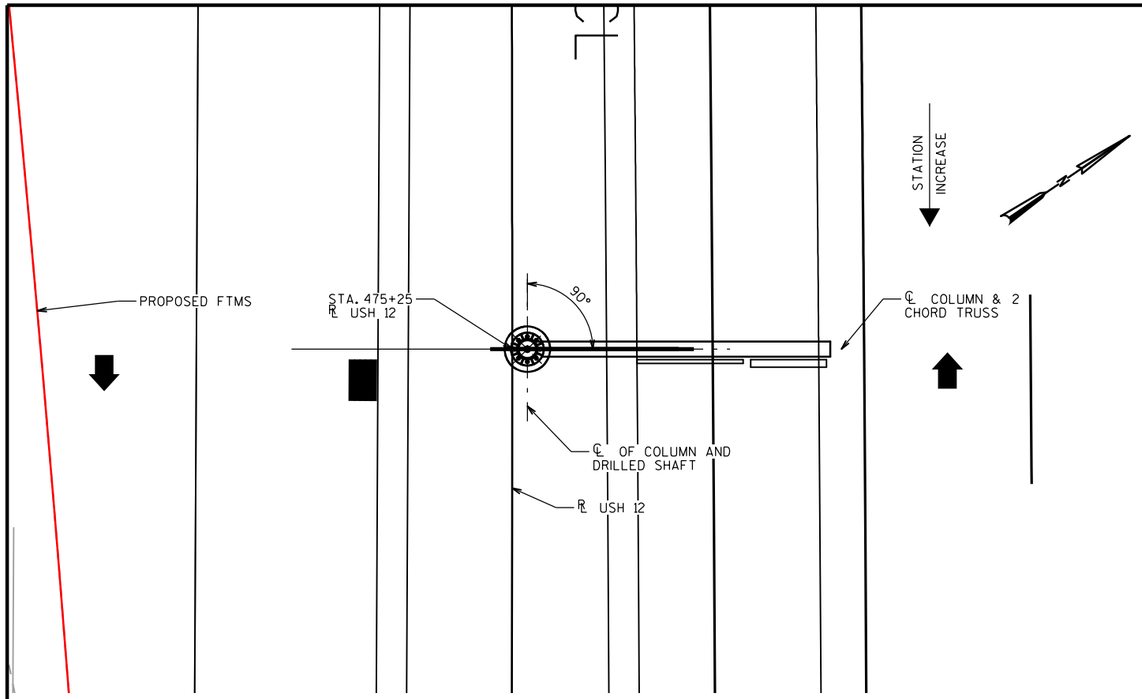
SHEET 6 OF 25

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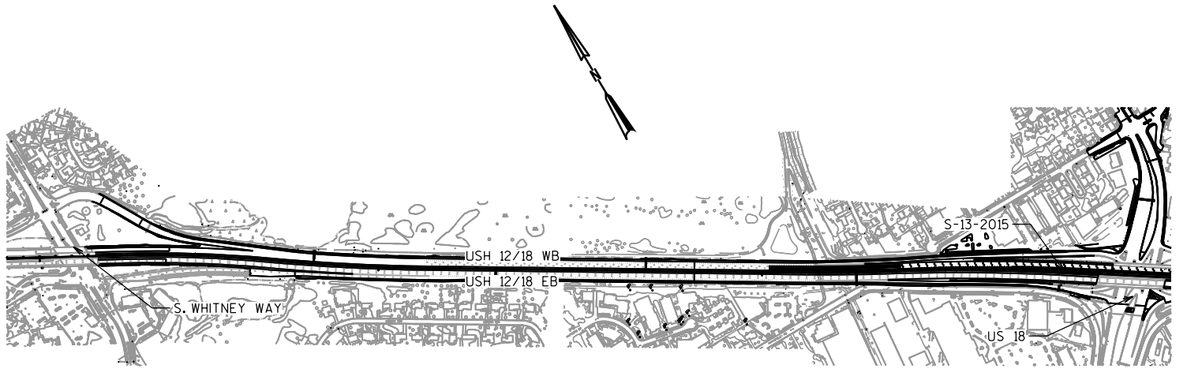
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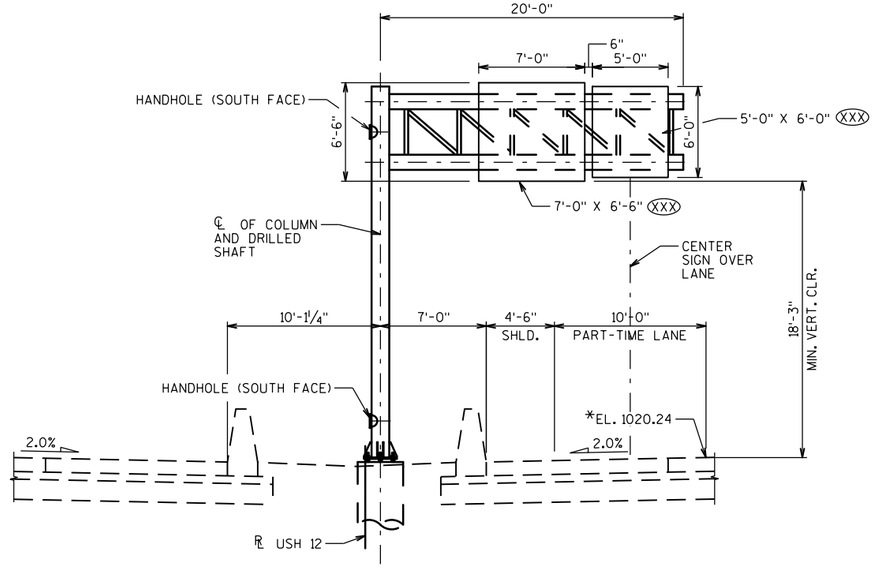
STATE PROJECT NUMBER
1206-06-79



PLAN

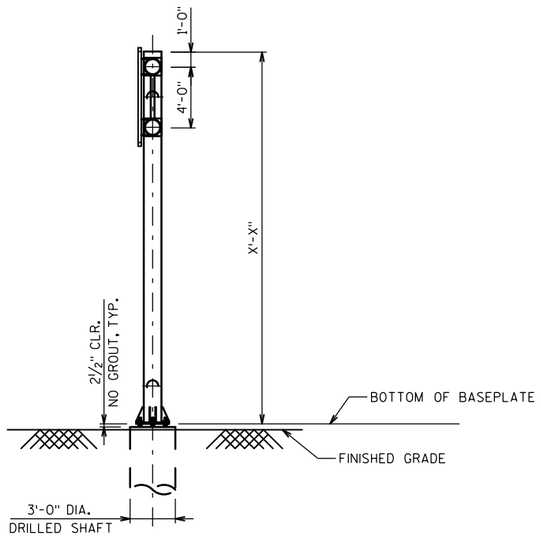


LOCATION MAP



ELEVATION

STA. 475+25 USH 12
(LOOKING DOWNSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING NORTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 475+25.00, 20.2' RT., EL. 1020.24

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2015

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2015

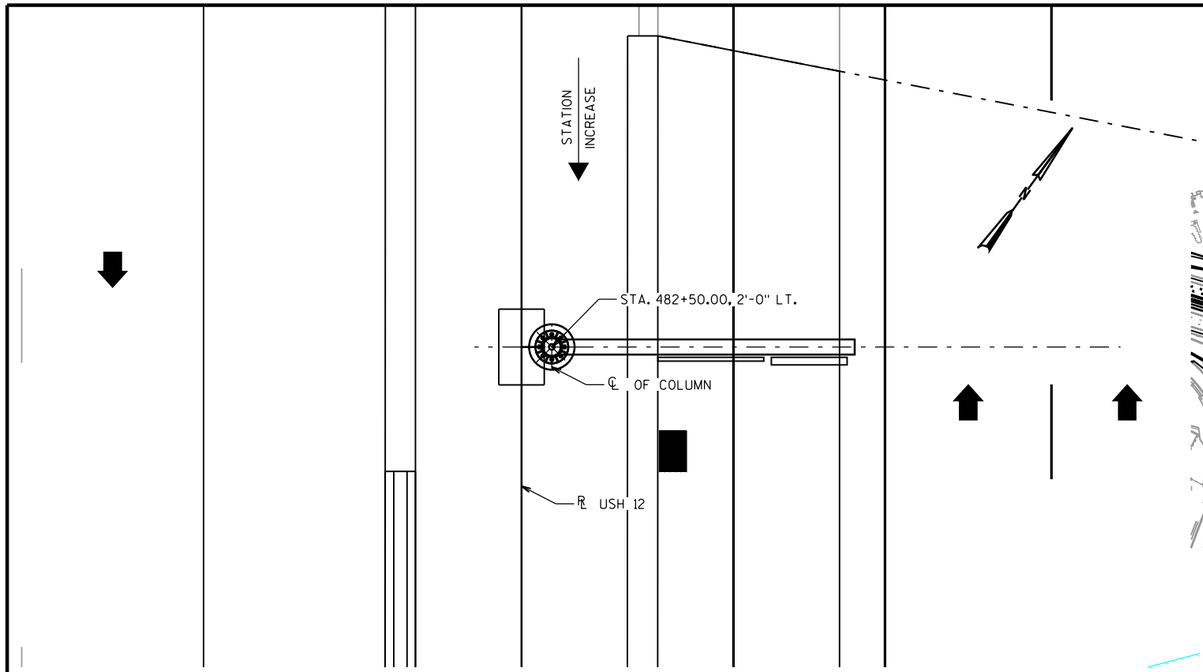
SHEET 7 OF 25

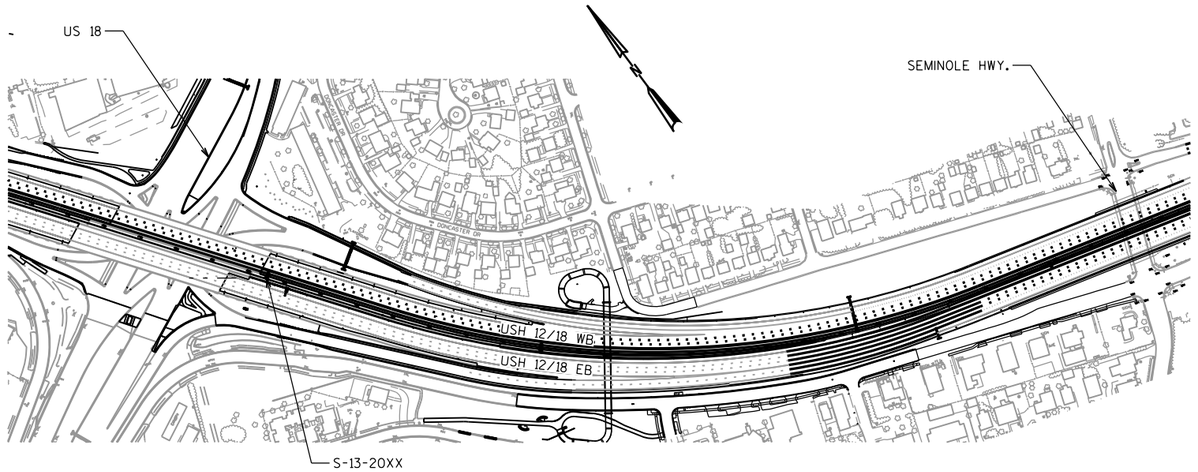
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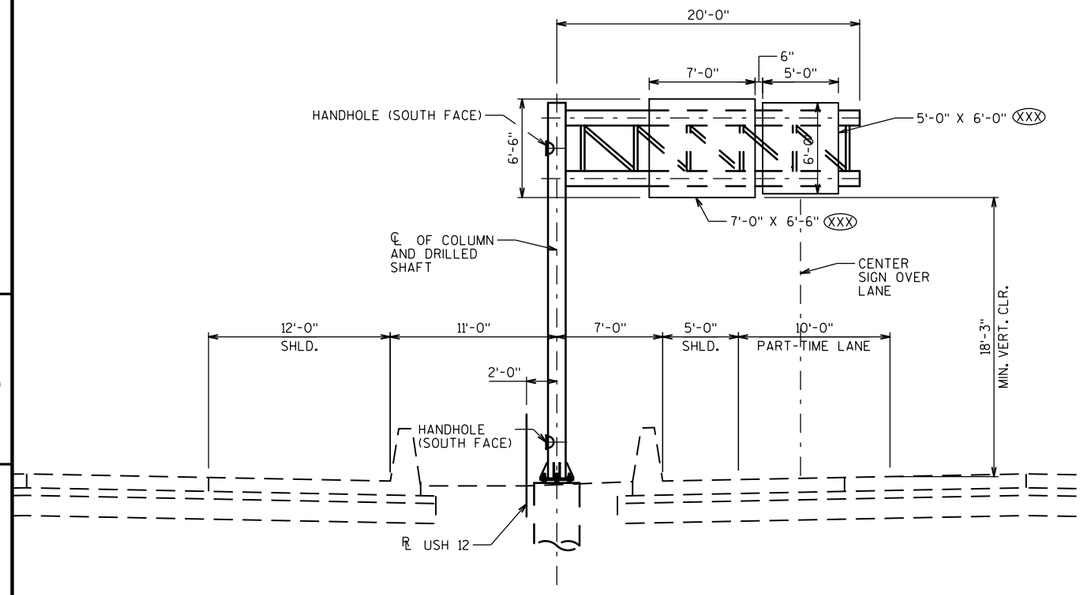
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STATE PROJECT NUMBER
1206-06-79



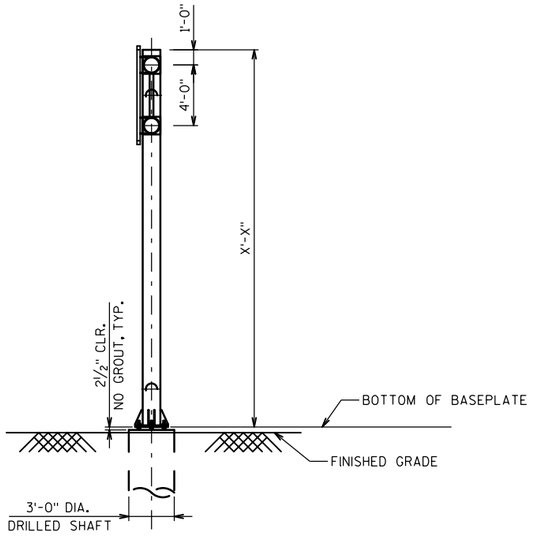


LOCATION MAP



ELEVATION

STA. 482+50 USH 12
(LOOKING DOWNSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING NORTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-20XX

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-20XX

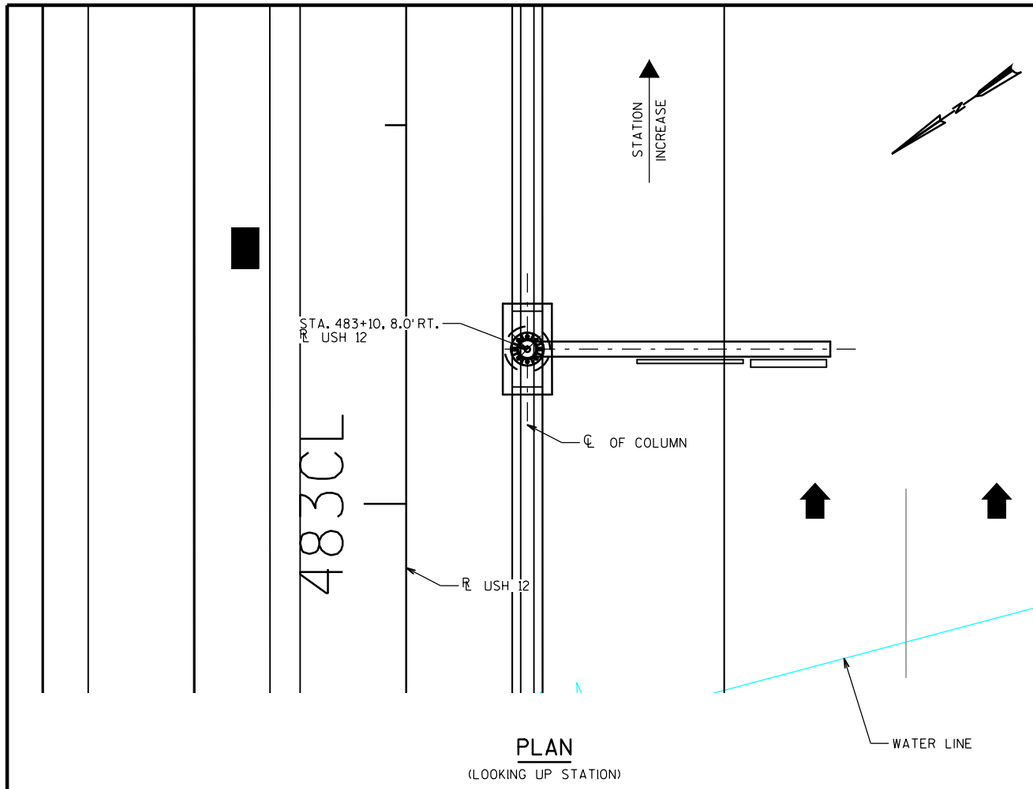
SHEET 8 OF 25

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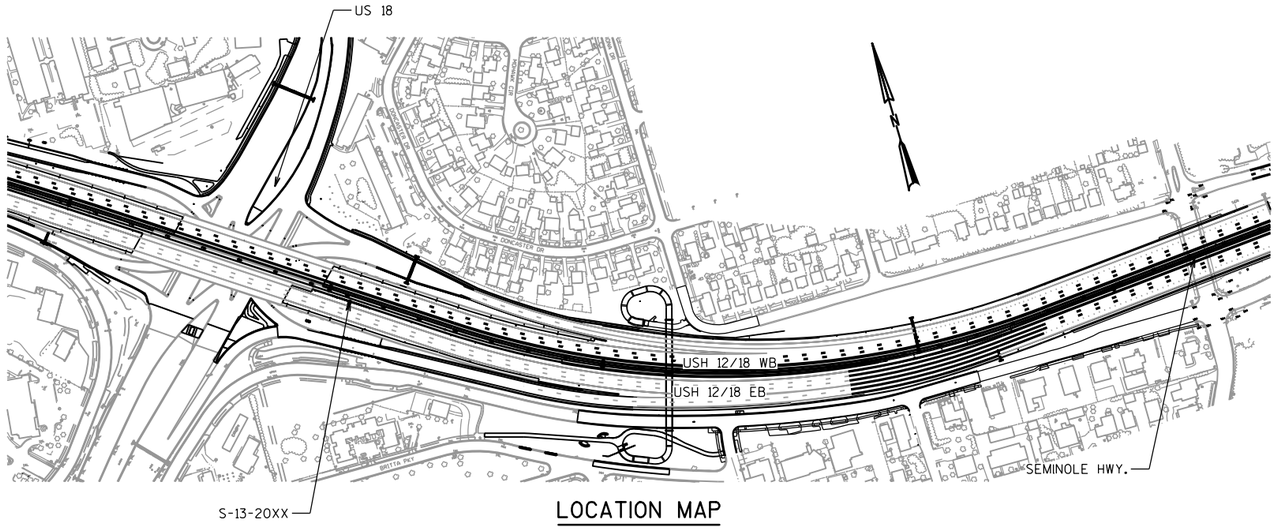
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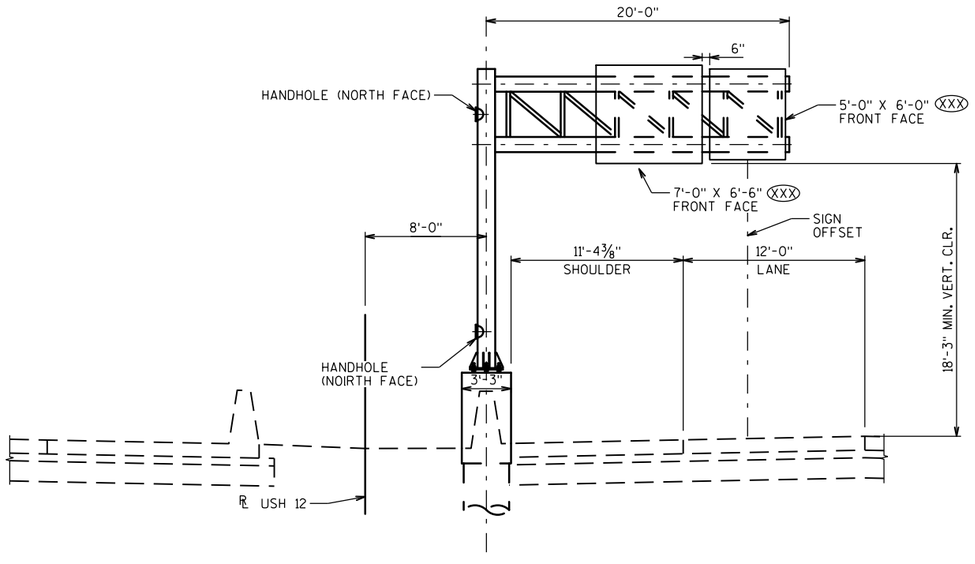
STATE PROJECT NUMBER
1206-06-79



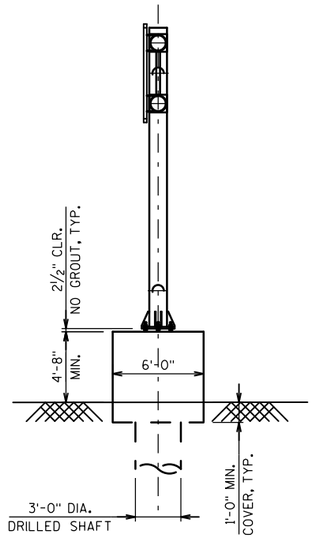
PLAN
(LOOKING UP STATION)



LOCATION MAP



ELEVATION
STA. 483+10 USH 12
(LOOKING EAST)



SIDE VIEW
(LOOKING NORTH)

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-20XX

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-20XX

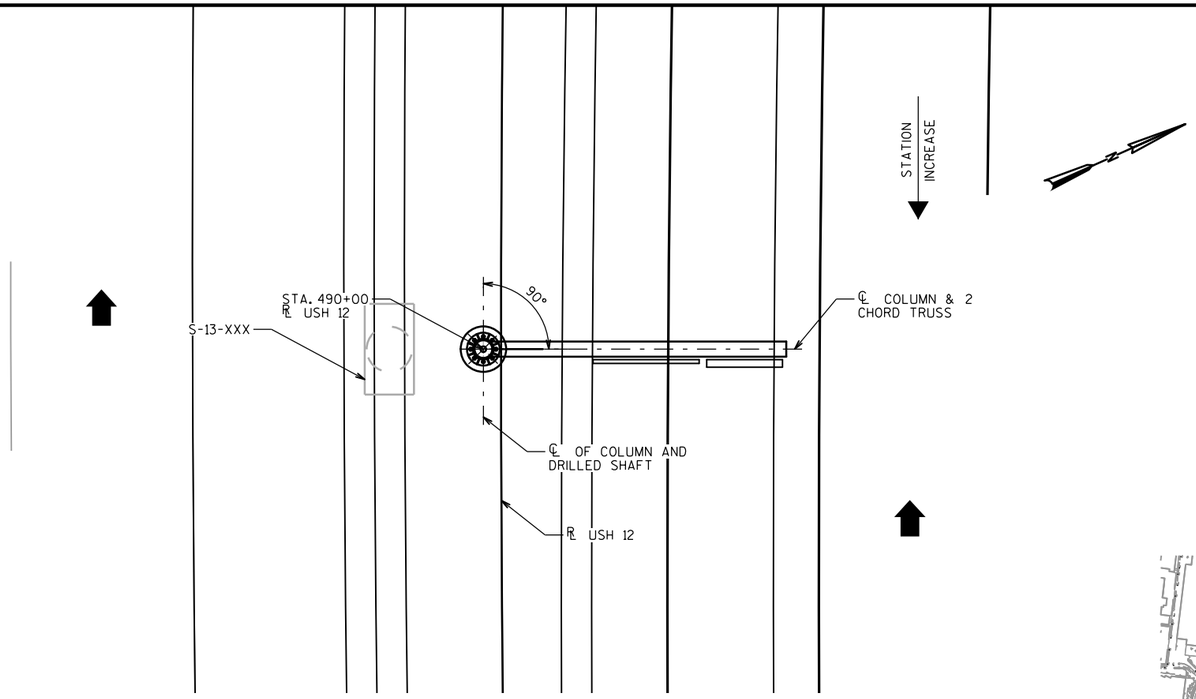
SHEET 9 OF 25

8

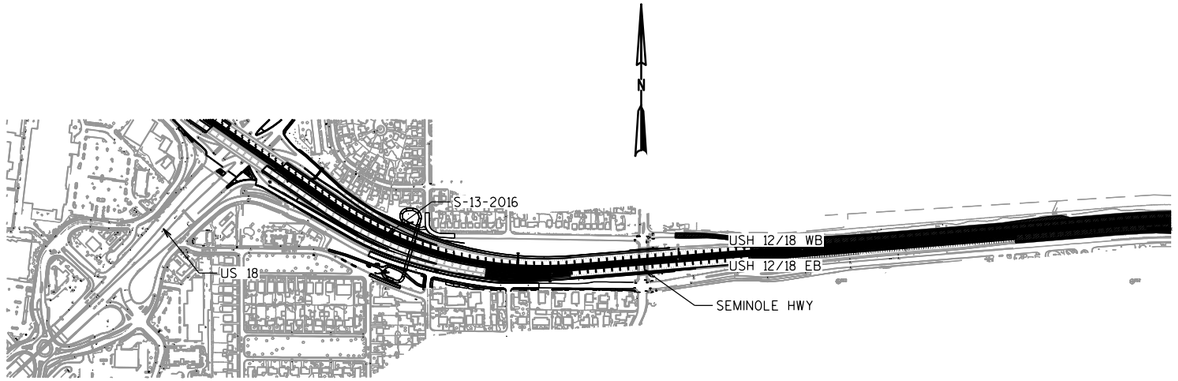
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FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\66034 Beltline DPTSU\1_Engineering\1.4_Structures\Preliminary\CAD\DPTSU_2025-23-0023_R09_gp.dgn PLOT BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 10:1

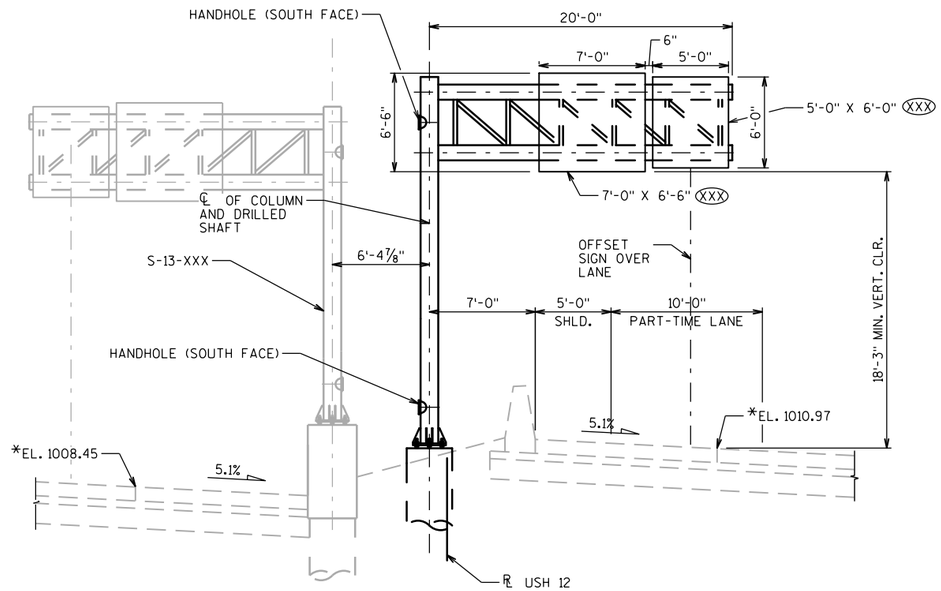
STATE PROJECT NUMBER
1206-06-79



PLAN

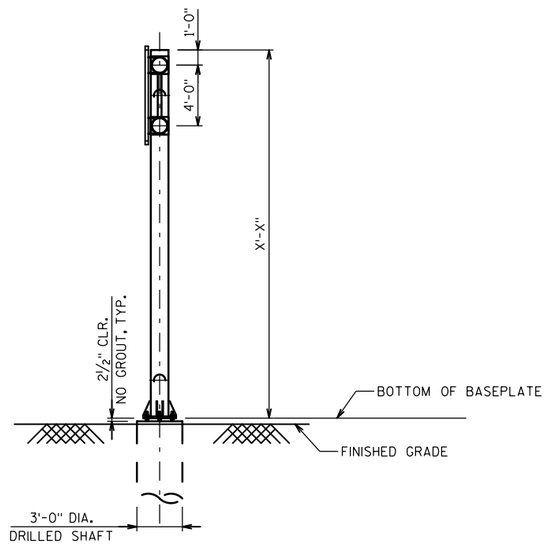


LOCATION MAP



ELEVATION

STA. 490+00 USH 12
(LOOKING DOWNSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING SOUTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 490+00.00, 18.0' RT., EL. 1010.97

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2016

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2016

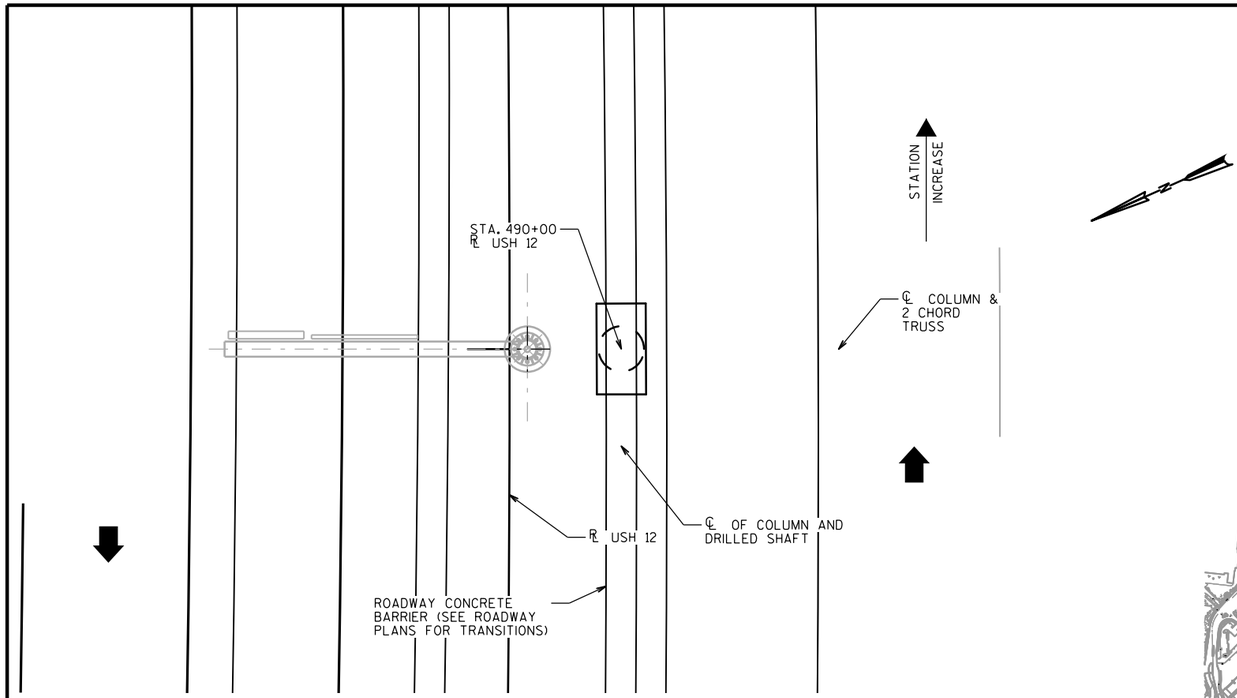
SHEET 10 OF 25

8

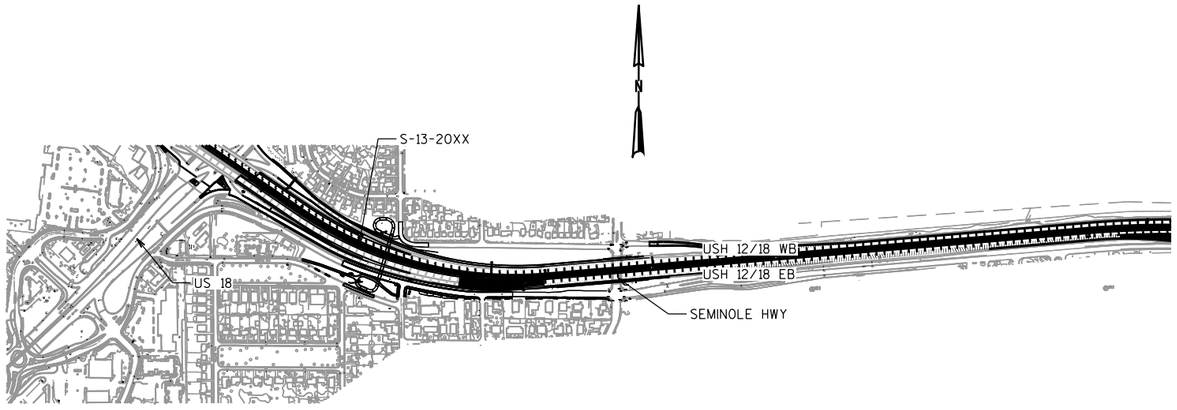
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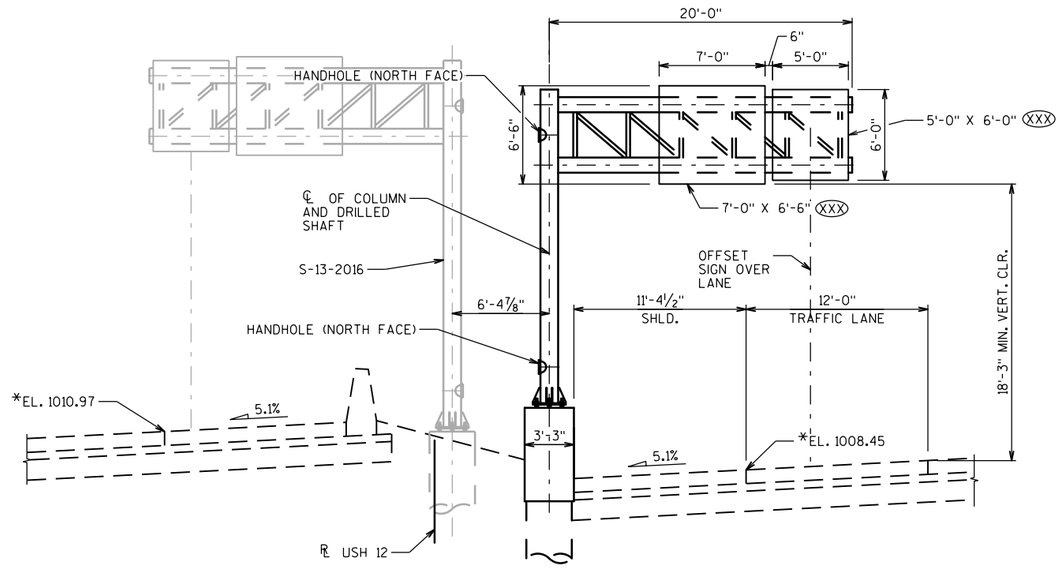
STATE PROJECT NUMBER
1206-06-79



PLAN

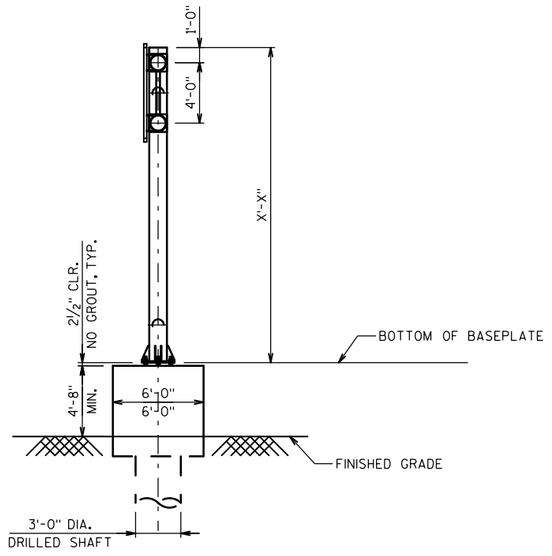


LOCATION MAP



ELEVATION

STA. 490+00 USH 12
(LOOKING UPSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING SOUTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 490+00.00, 18.0' RT., EL. 1010.97

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-20XX

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-20XX

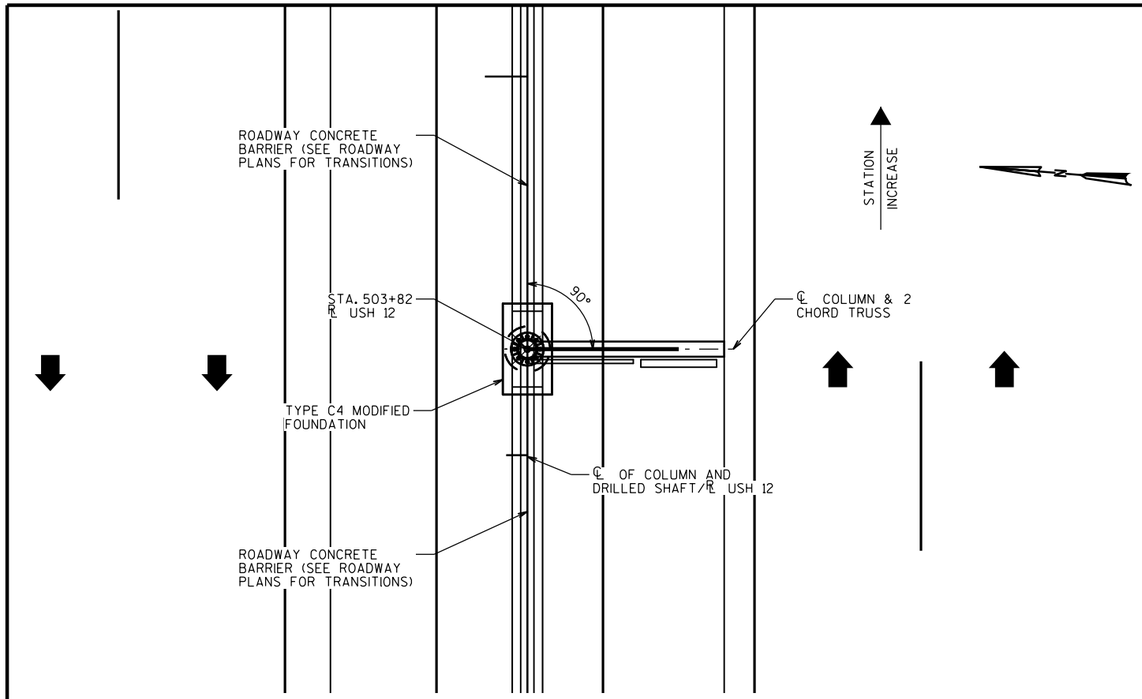
SHEET 11 OF 25

8

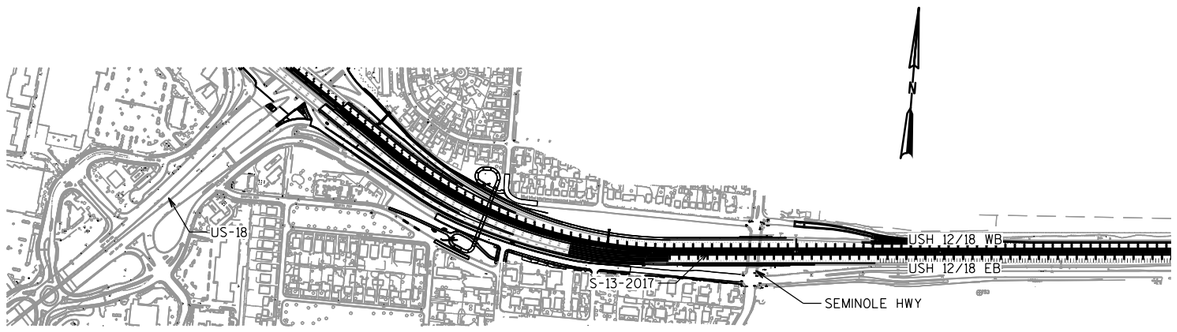
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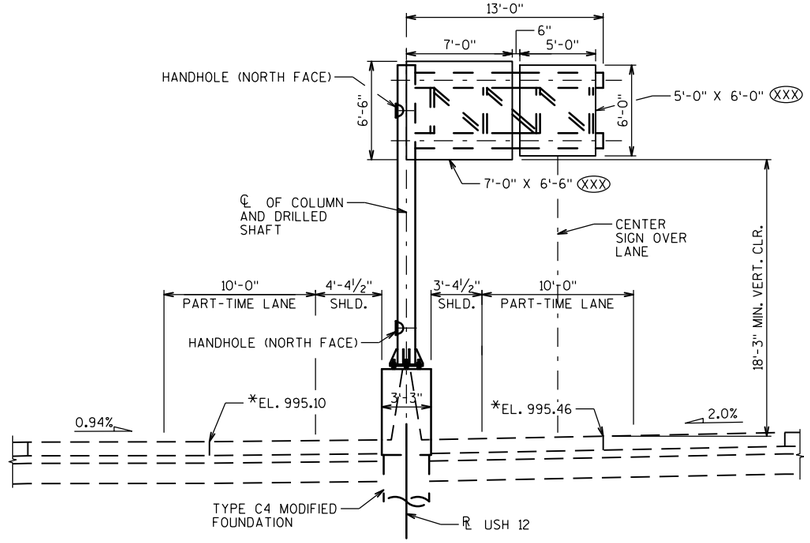
STATE PROJECT NUMBER
1206-06-79



PLAN

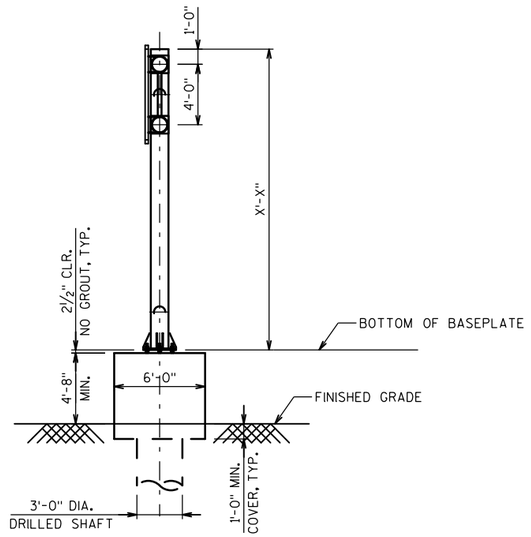


LOCATION MAP



ELEVATION

STA. 503+82 USH 12
(LOOKING UPSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING NORTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 503+82.00, 13.0' RT., EL. 995.46

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2017

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2017

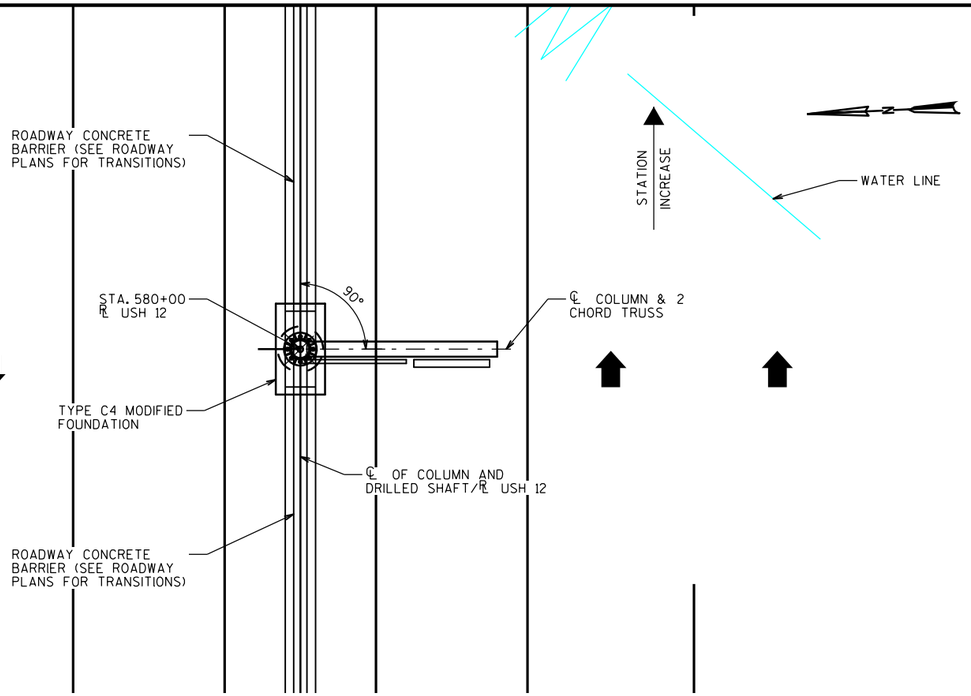
SHEET 12 OF 25

8

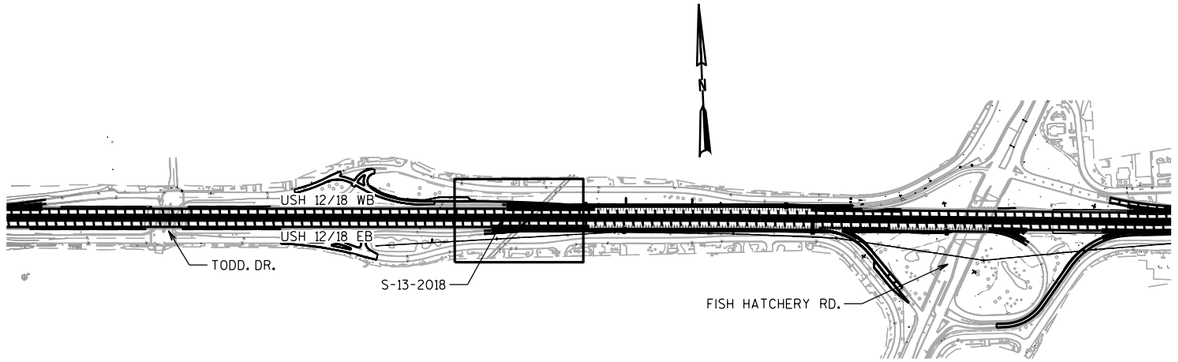
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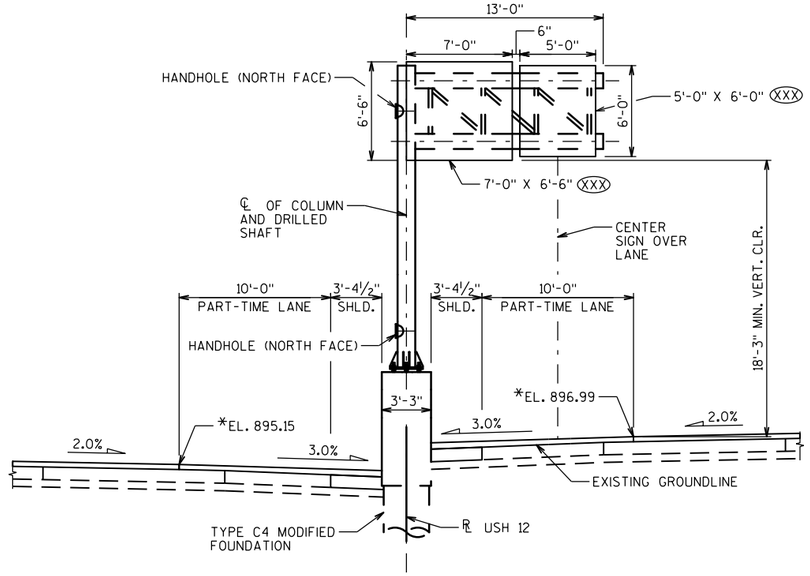
STATE PROJECT NUMBER
1206-06-79



PLAN

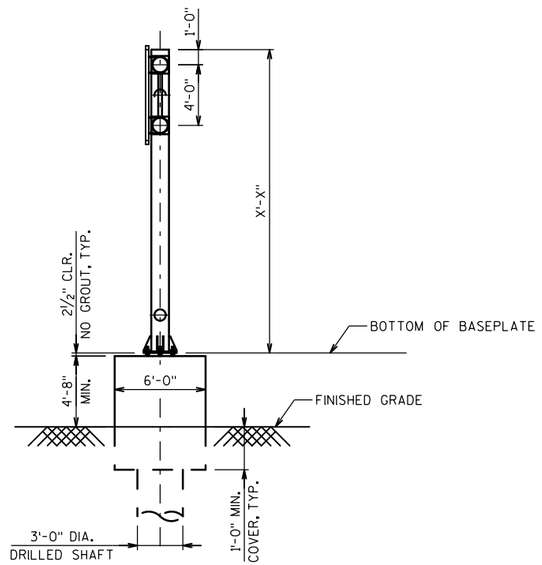


LOCATION MAP



ELEVATION

STA. 580+00 USH 12
(LOOKING UPSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING NORTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 580+00.00, 15' RT., EL. 896.99

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2018

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2018

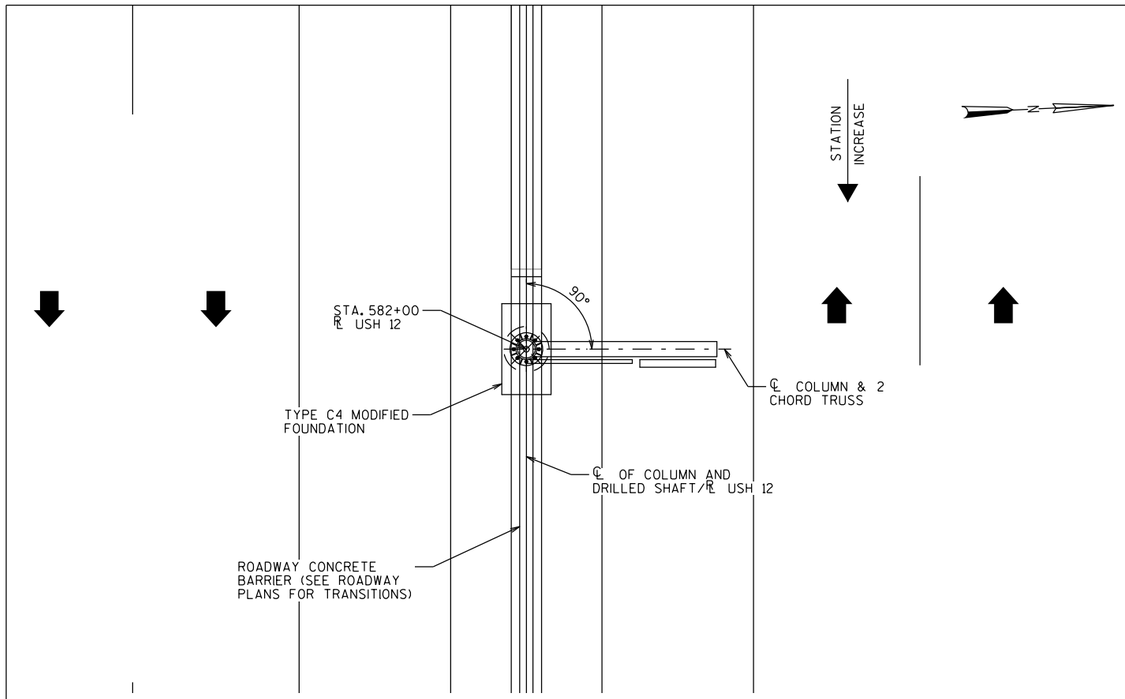
SHEET 13 OF 25

8

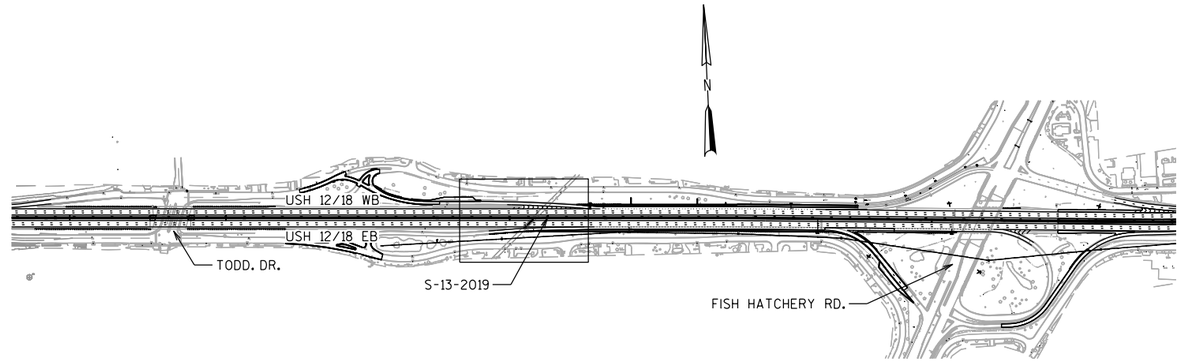
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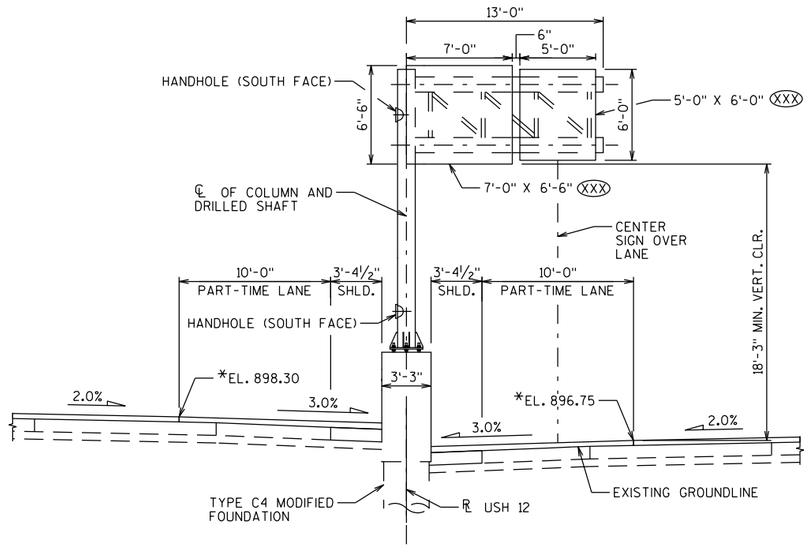
STATE PROJECT NUMBER
1206-06-79



PLAN

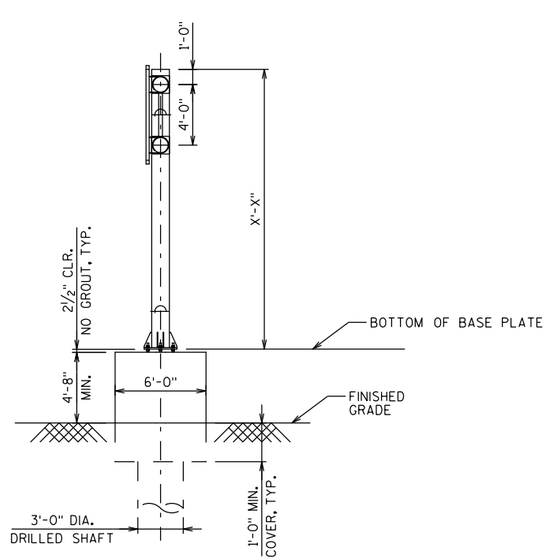


LOCATION MAP



ELEVATION

STA. 582+00 USH 12
(LOOKING DOWNSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING SOUTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 582+00.00, 15.0' RT., EL. 896.75

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2019

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2019

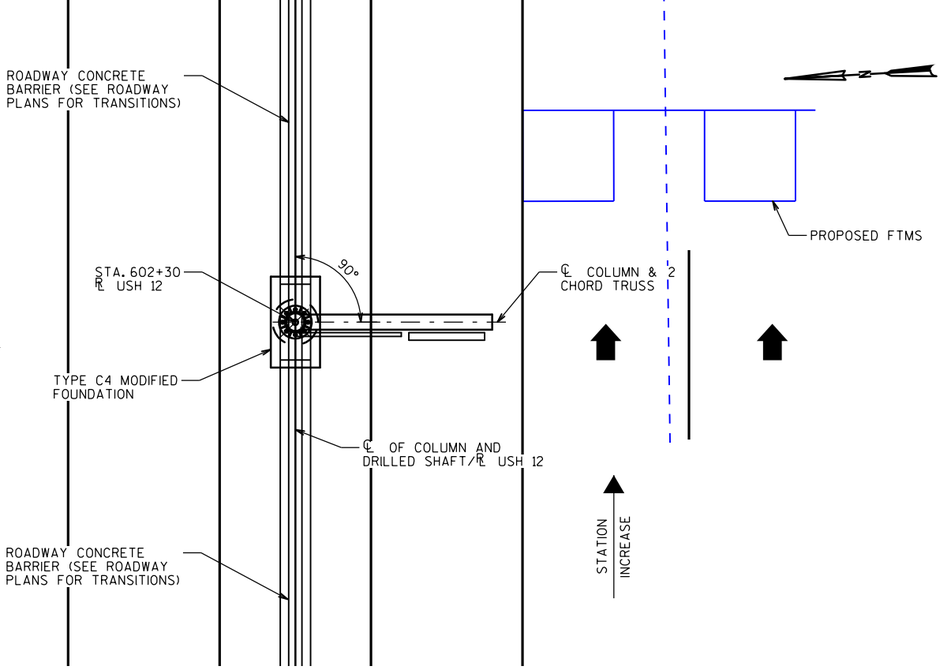
SHEET 14 OF 25

8

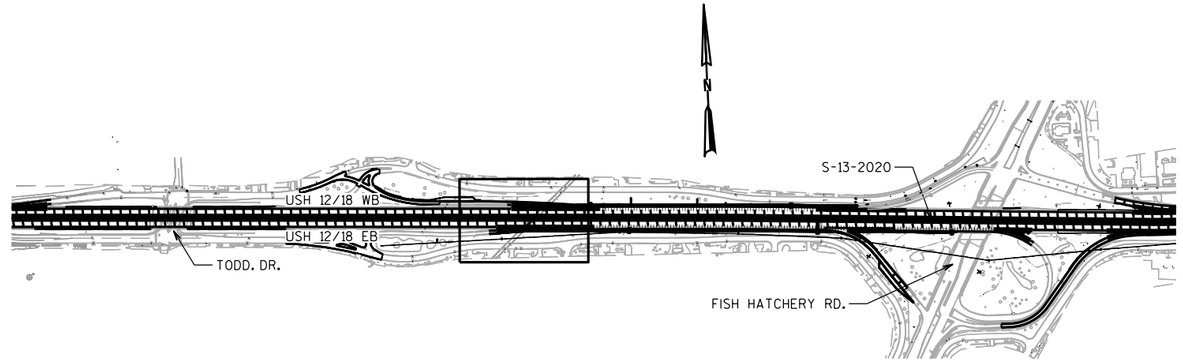
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FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\66034 Beltline DPTSU\1_Engineering\1.4_Structures\Preliminary\CAD\FED_TS&L_S132019_11x17_Landscape_v1.dgn PLOT DATE : 2/20/2020 11:28:25 AM PLOT BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 10:1

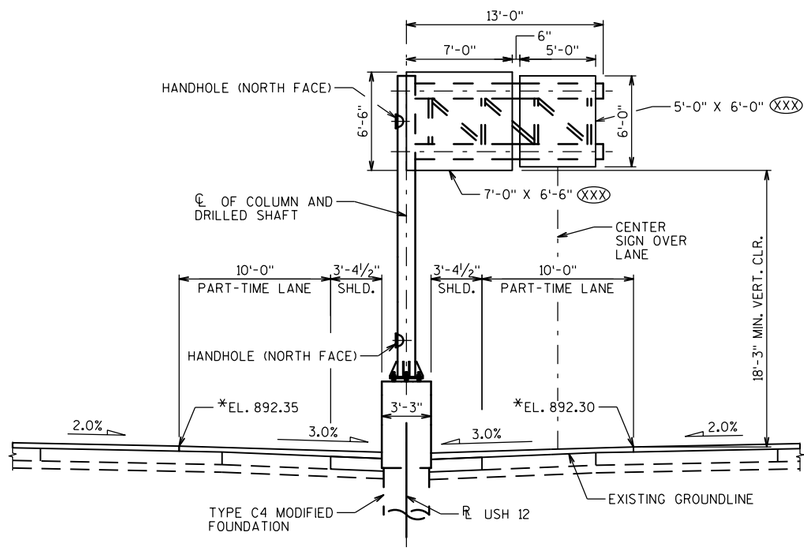
STATE PROJECT NUMBER
1206-06-79



PLAN

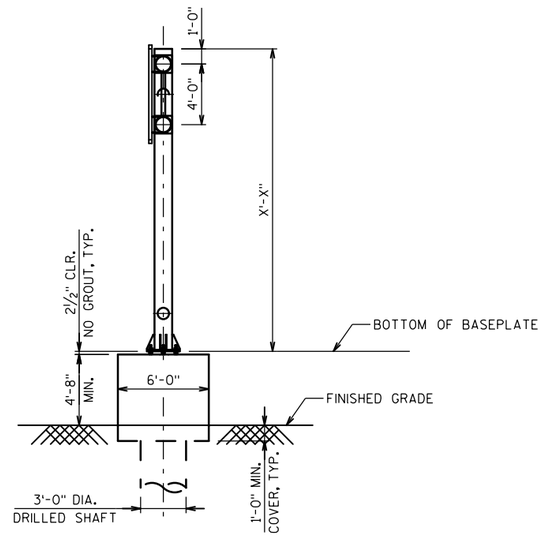


LOCATION MAP



ELEVATION

STA. 602+30 USH 12
(LOOKING UPSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING NORTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 602+30.00, 15.0' RT., EL. 892.30

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2020

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2020

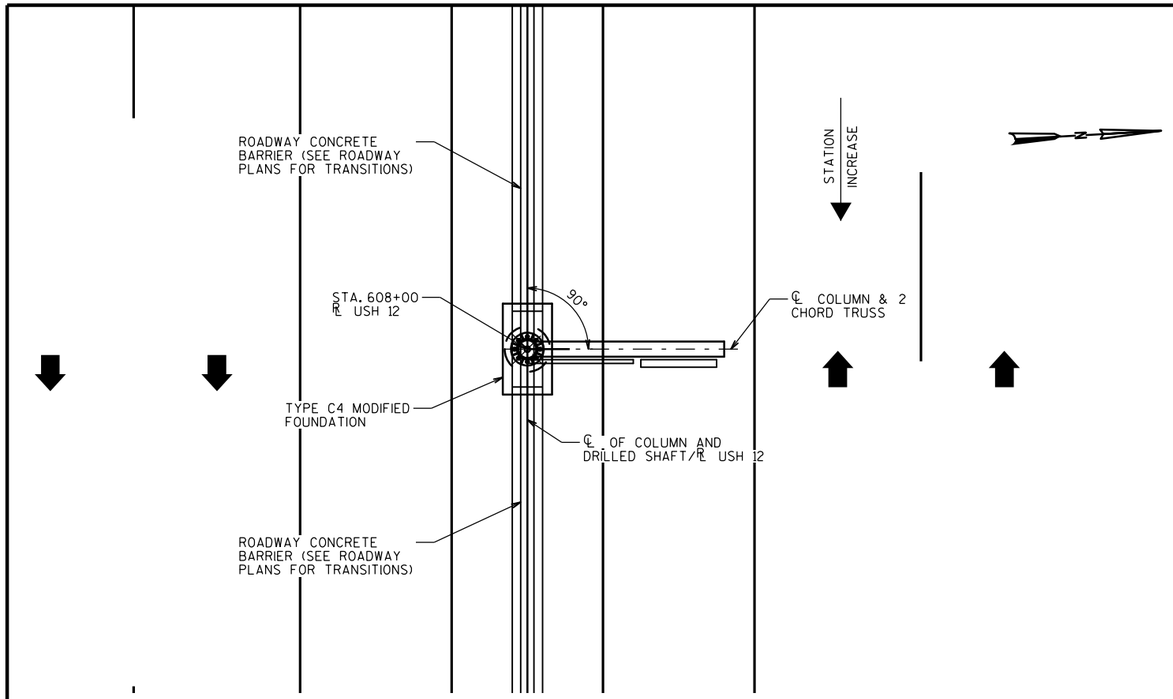
SHEET 15 OF 25

8

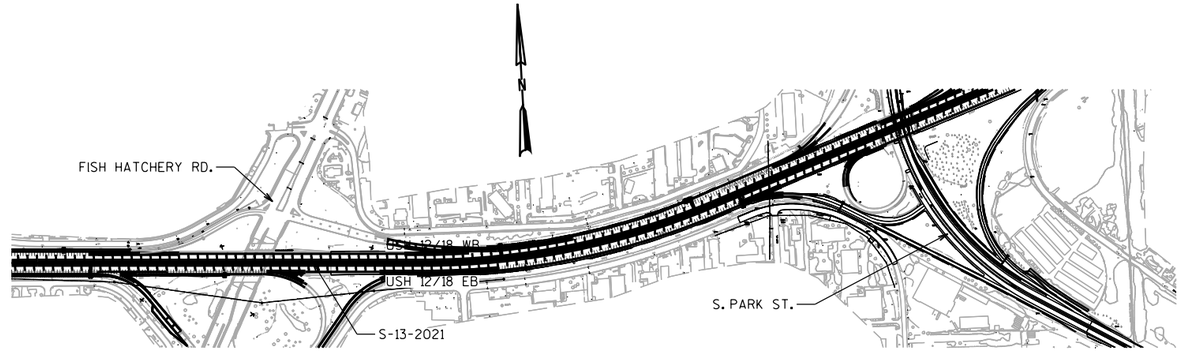
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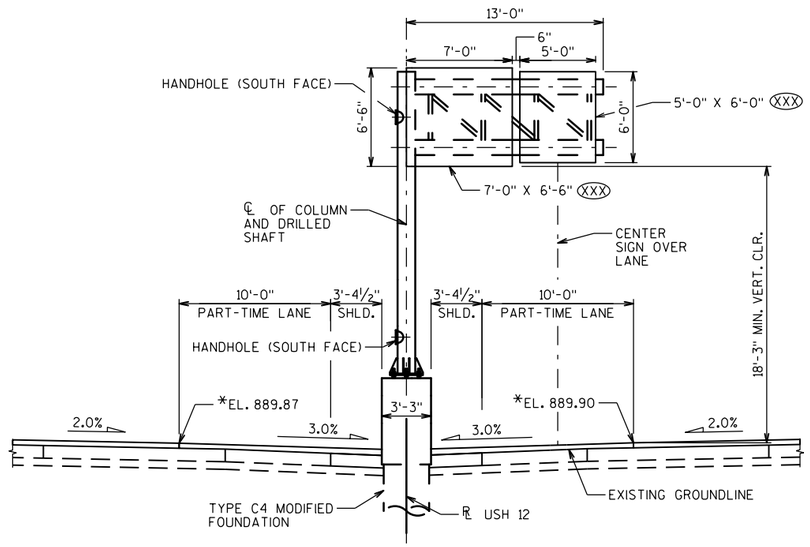
STATE PROJECT NUMBER
1206-06-79



PLAN

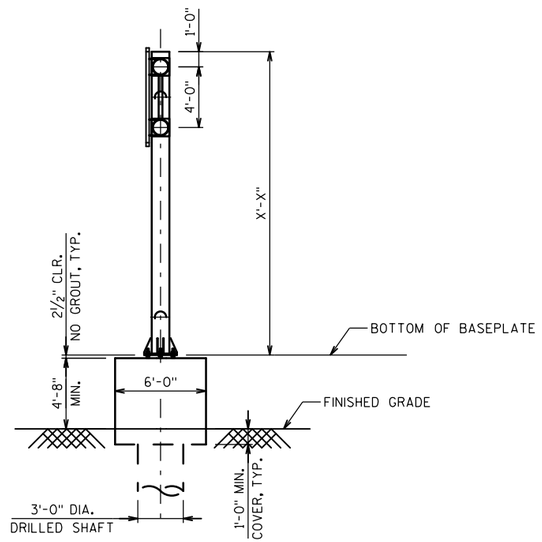


LOCATION MAP



ELEVATION

STA. 608+00 USH 12
(LOOKING DOWNSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING SOUTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 608+00.00, 15.0' RT., EL. 889.90

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2021

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2021

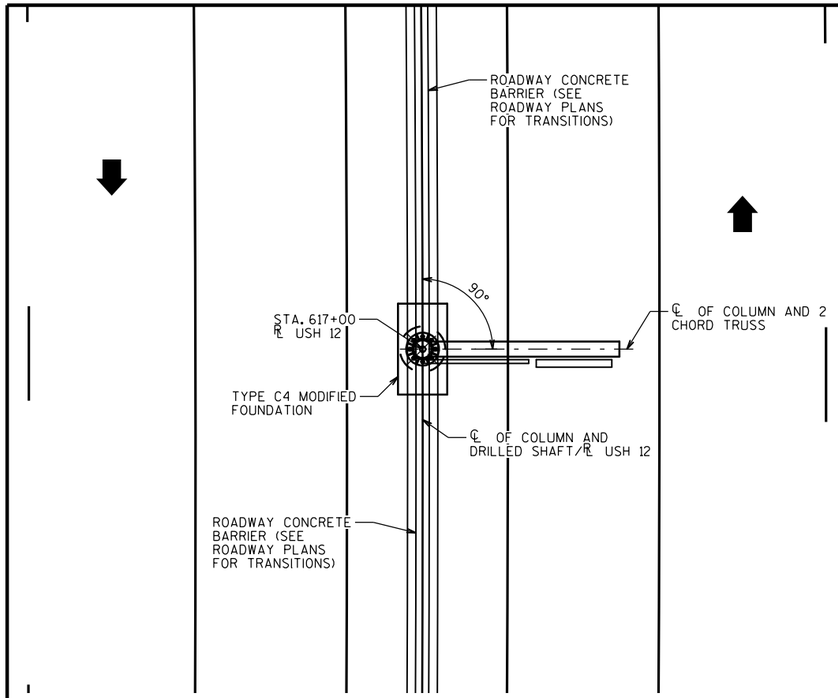
SHEET 16 OF 25

8

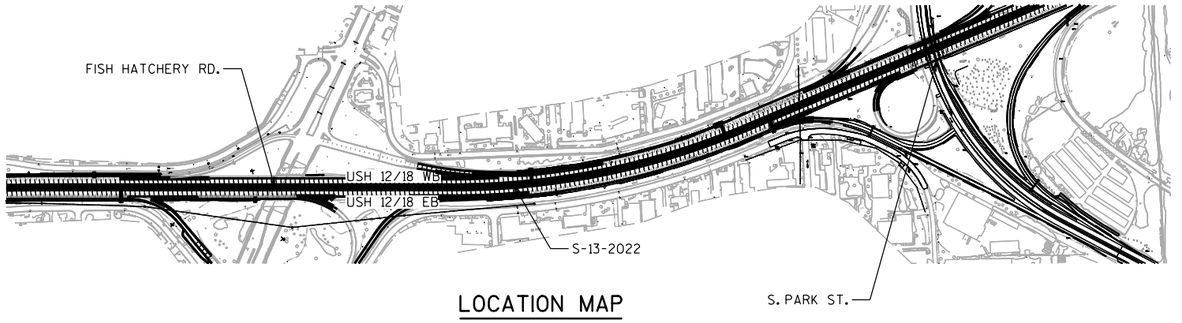
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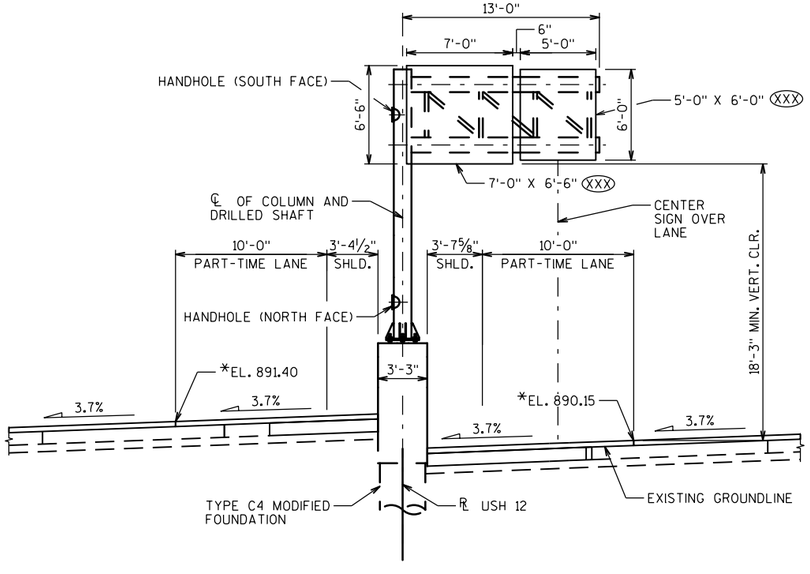
STATE PROJECT NUMBER
1206-06-79



PLAN

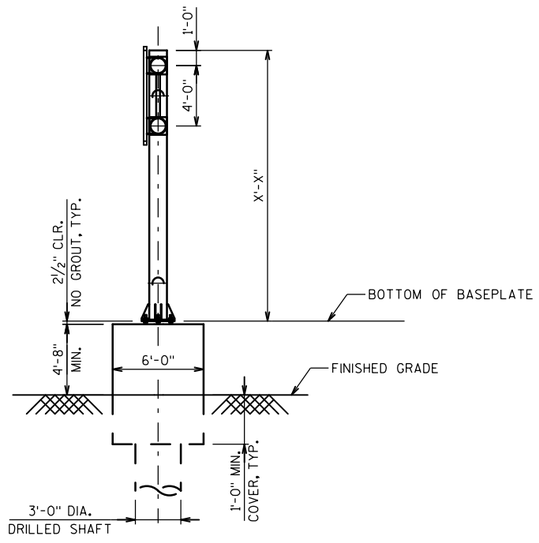


LOCATION MAP



ELEVATION

STA. 617+00 USH 12
(LOOKING UPSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING NORTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 615+00.00, 15.3' RT., EL. 890.15

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2022

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2022

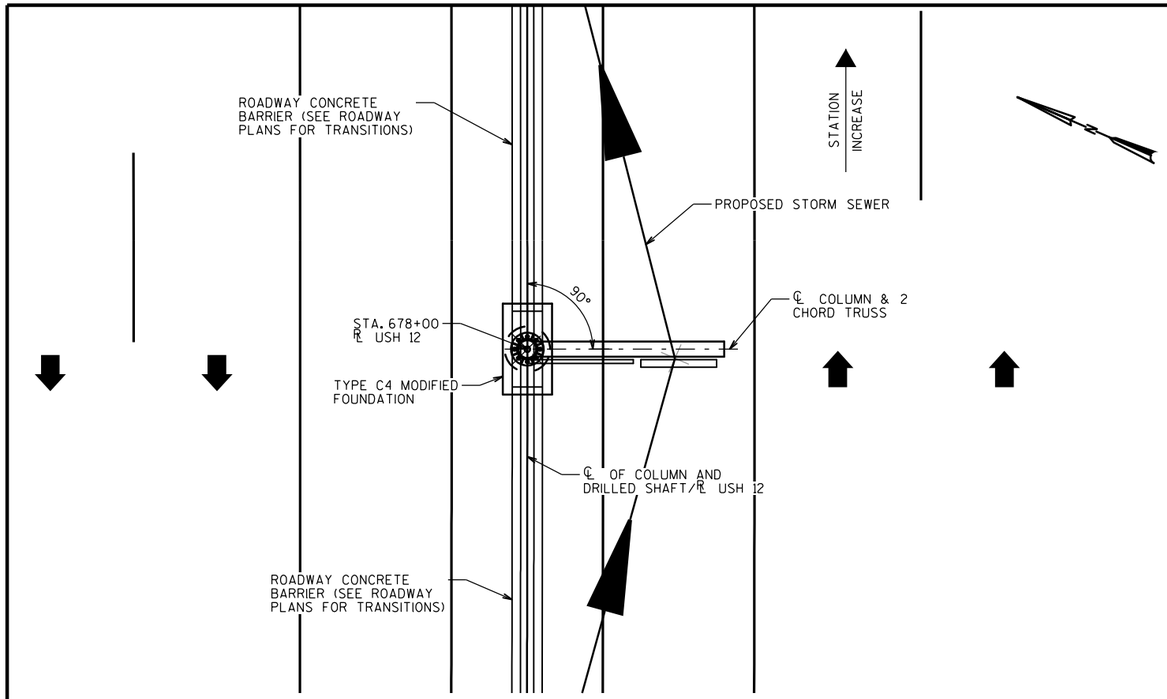
SHEET 17 OF 25

8

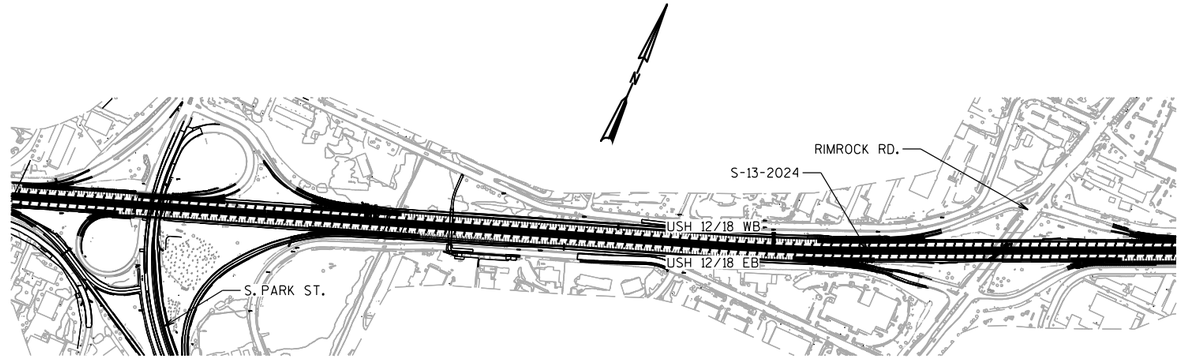
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FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\66034 Beltline DPTSU\1_Engineering\1.4_Structures\Preliminary\CAD\DPTSU20230113202417Mgp.dgn PLOT BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 10:1

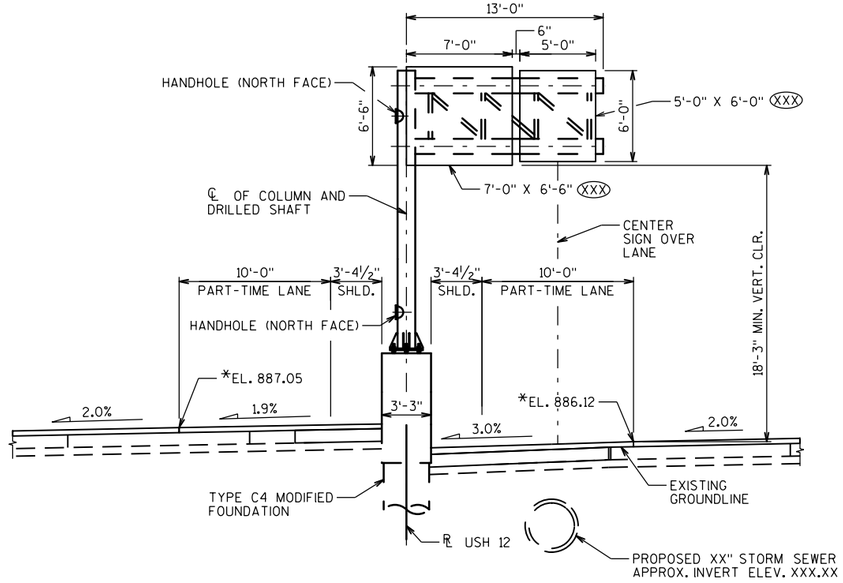
STATE PROJECT NUMBER
1206-06-79



PLAN

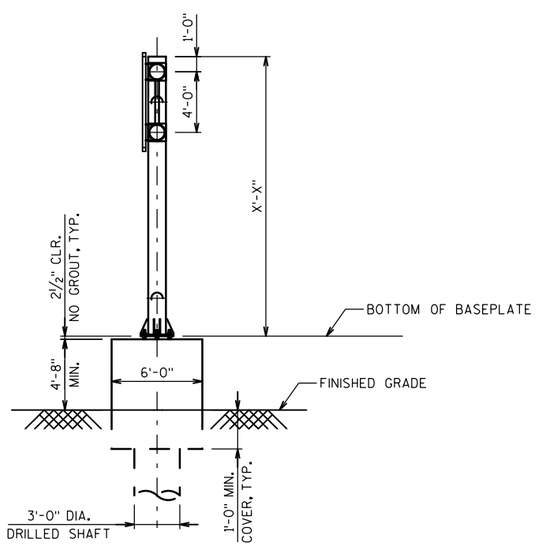


LOCATION MAP



ELEVATION

STA. 678+00 USH 12
(LOOKING UPSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING NORTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 678+00.00, 15' RT., EL. 886.12

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2024

DRAWN BY | PLANS CK'D.

GENERAL LAYOUT
S-13-2024

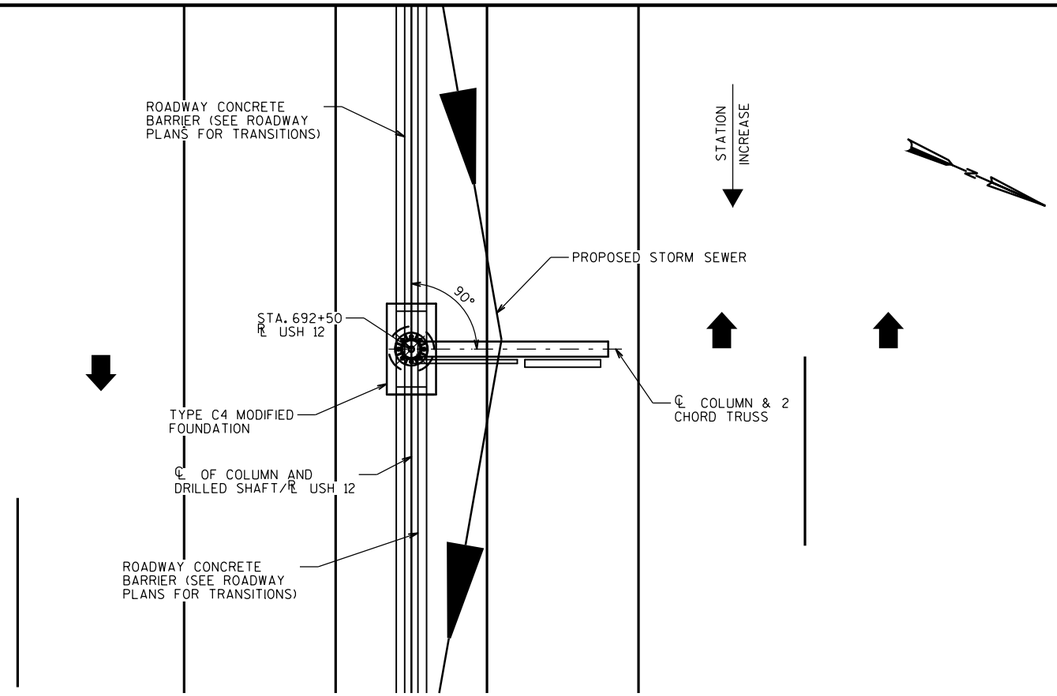
SHEET 18 OF 25

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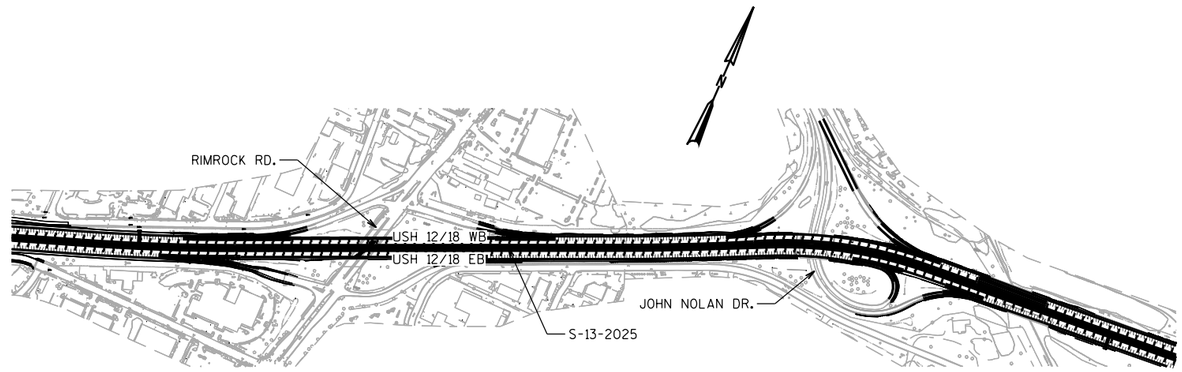
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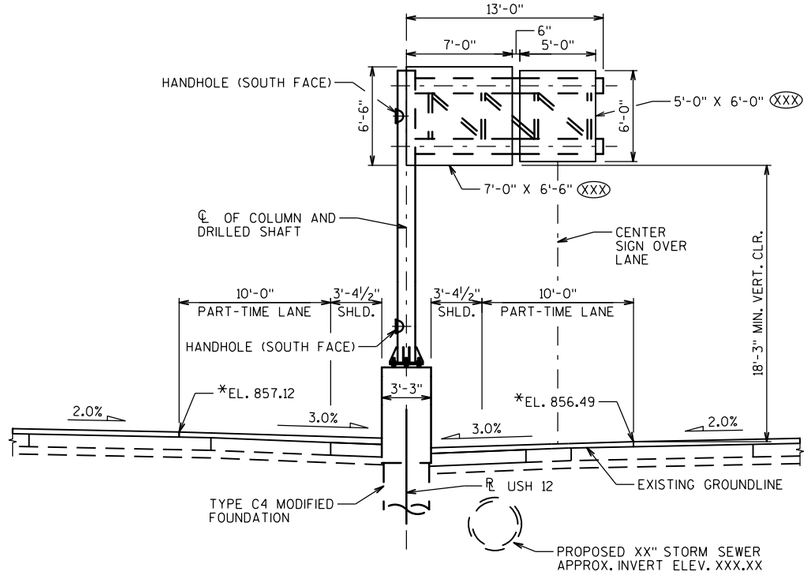
STATE PROJECT NUMBER
1206-06-79



PLAN

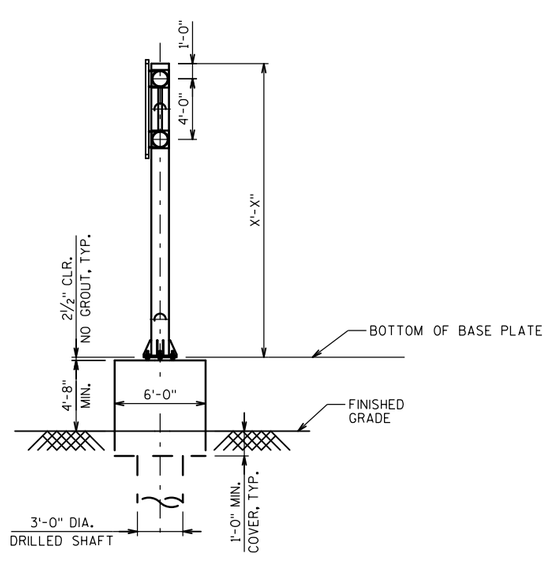


LOCATION MAP



ELEVATION

STA. 692+50 USH 12
(LOOKING DOWNSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING SOUTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 692+50.00, 15.0' RT., EL. 856.49

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2025

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2025

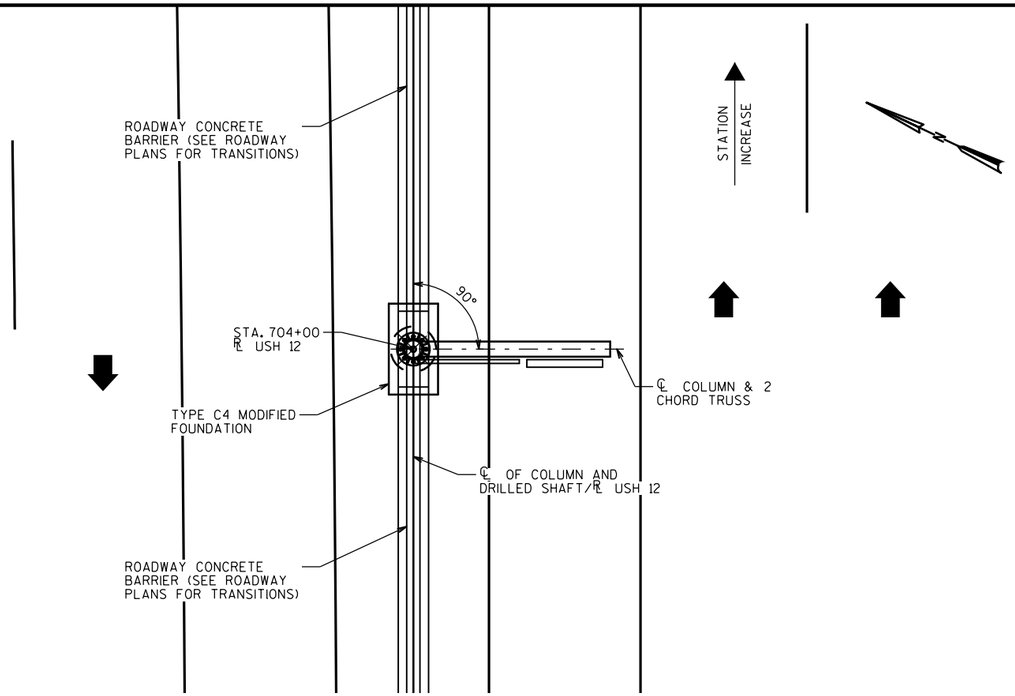
SHEET 19 OF 25

8

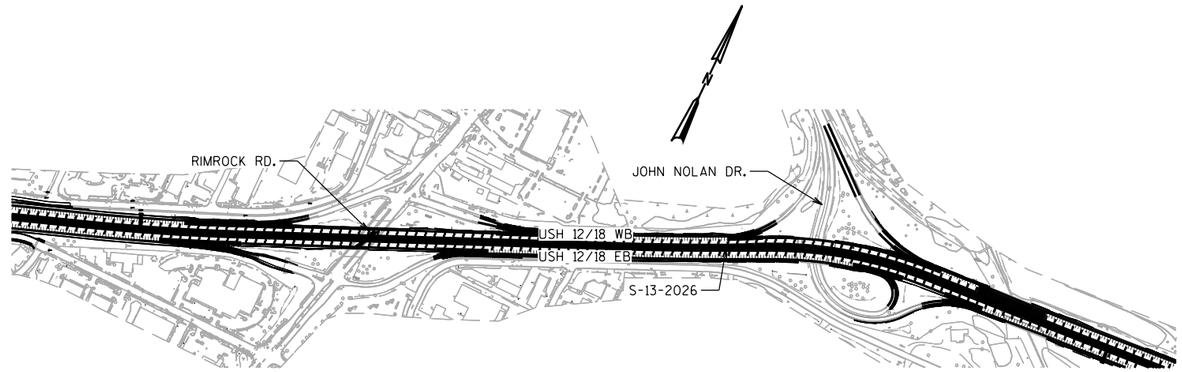
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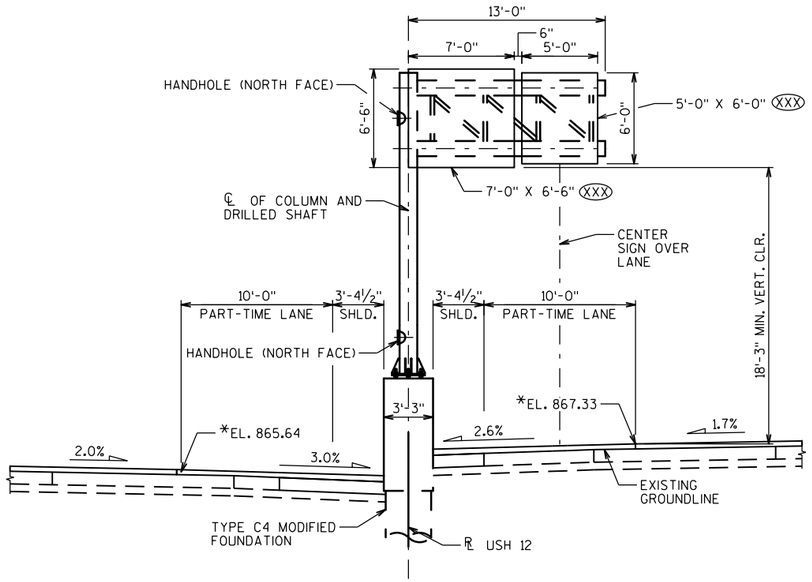
STATE PROJECT NUMBER
1206-06-79



PLAN

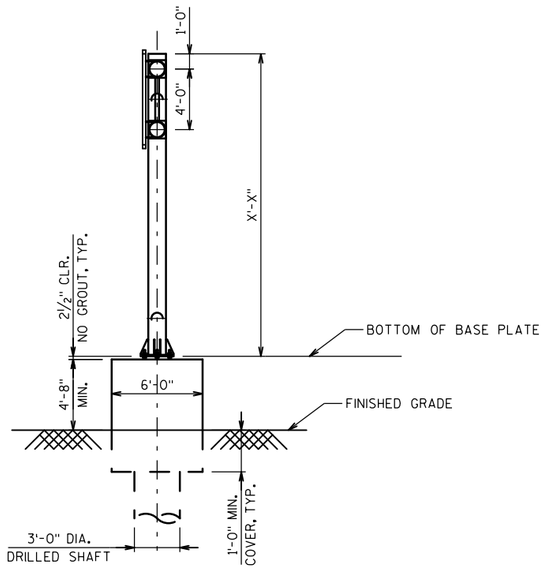


LOCATION MAP



ELEVATION

STA. 704+00 USH 12
(LOOKING UPSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING NORTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 704+00.00, 15.0' RT., EL. 867.33

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2026

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2026

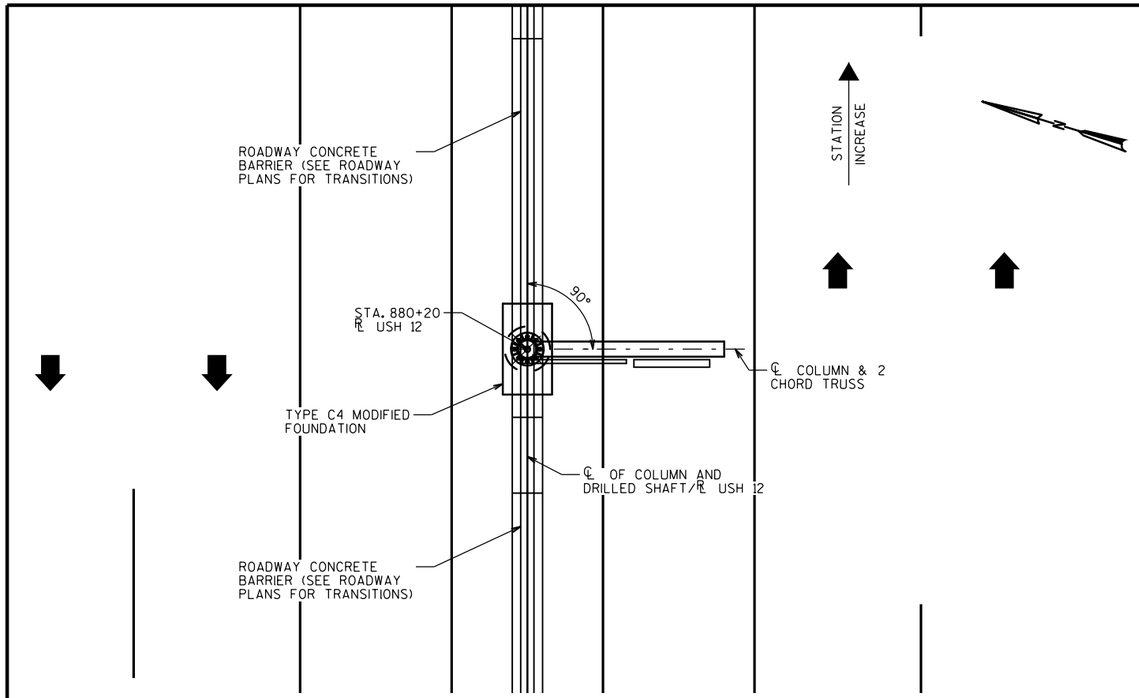
SHEET 20 OF 25

8

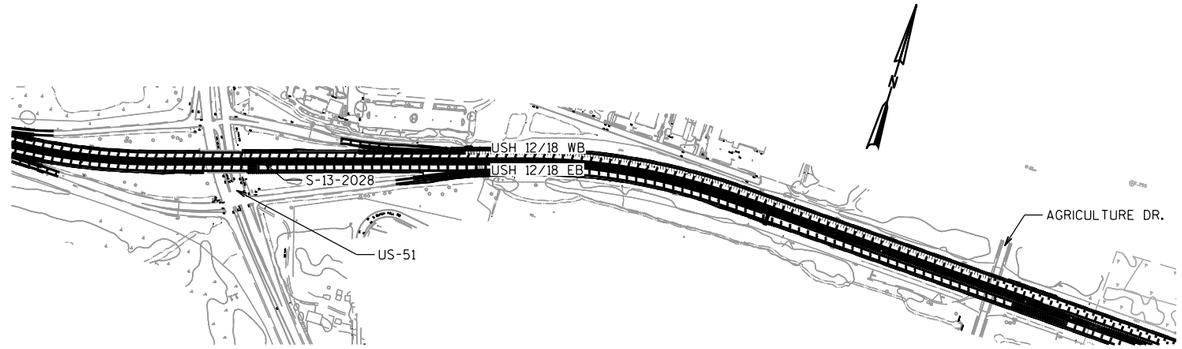
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FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\66034 Beltline DPTSU\1_Engineering\1.4_Structures\Preliminary\CAD\FED PTS\S-13-2026 GENERAL LAYOUT.dgn PLOT DATE : 2/26/2026 1:29:08 PM PLOT BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 10:1

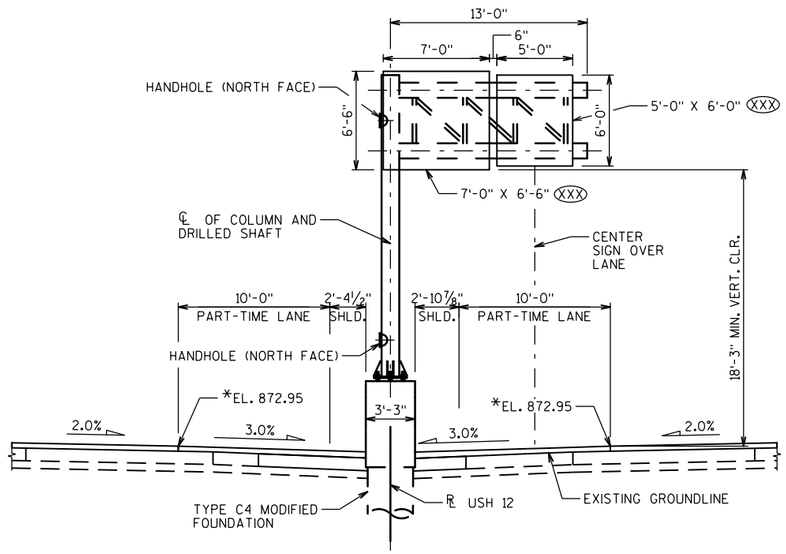
STATE PROJECT NUMBER
1206-06-79



PLAN

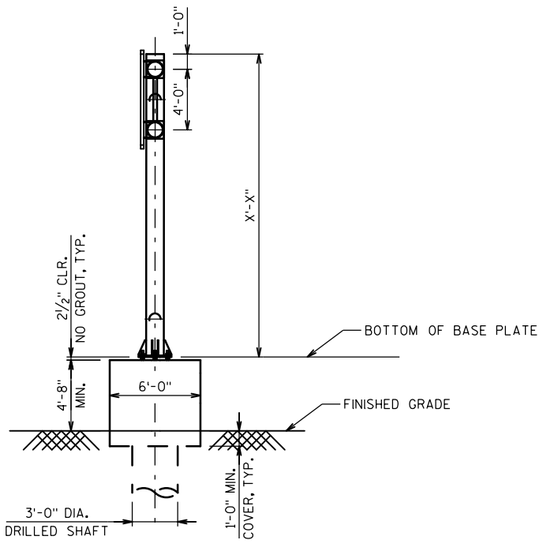


LOCATION MAP



ELEVATION

STA. 880+20 USH 12
(LOOKING UPSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING NORTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 880+20.00, 14.5' RT., EL. 872.95

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2028

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2028

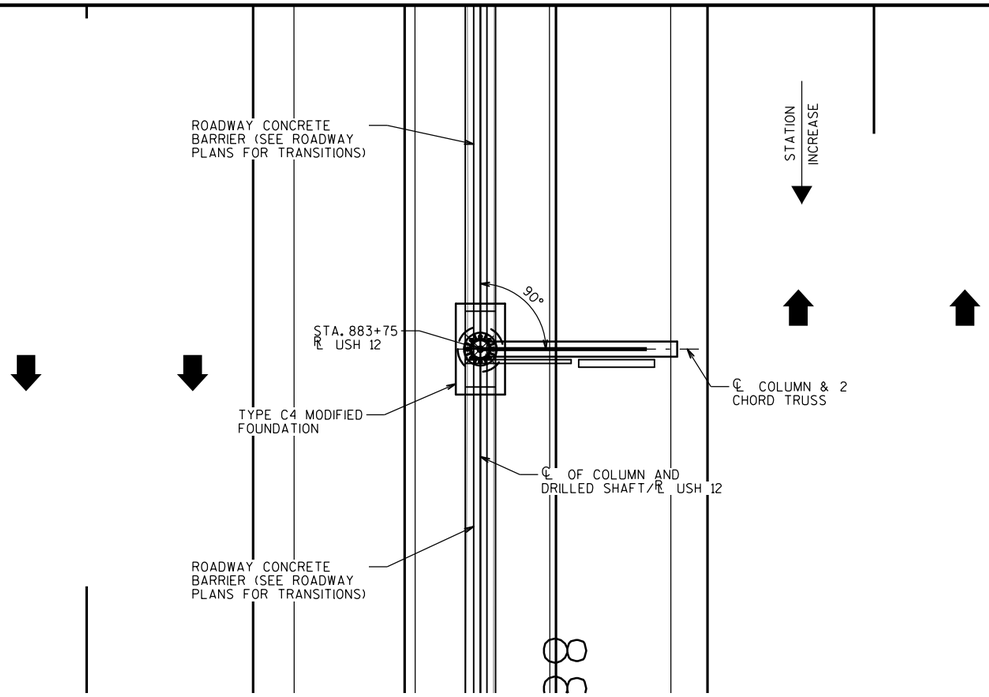
SHEET 21 OF 25

8

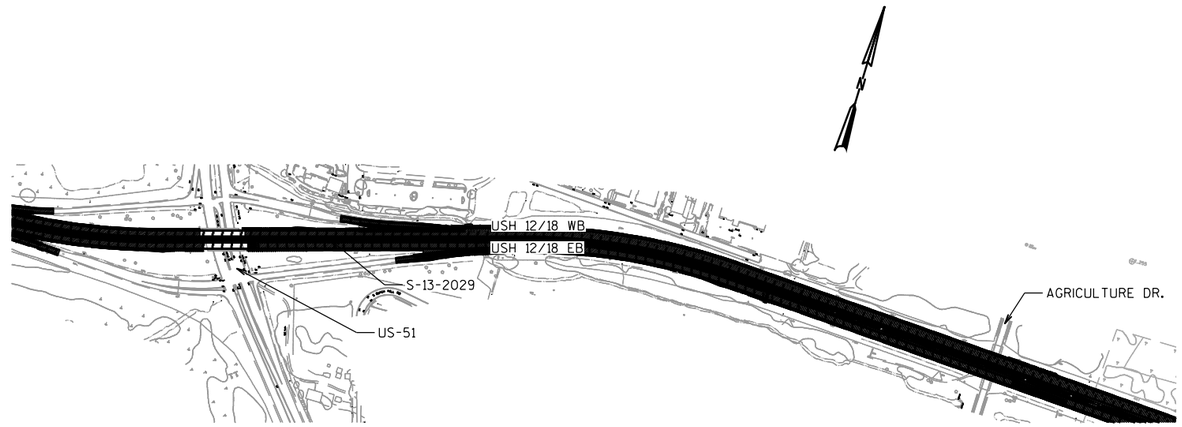
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FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\66034 Beltline DPTSU\1_Engineering\1.4_Structures\Preliminary\CAD\DPTSU_S-13-2028_GL1.dgn PLOTTED : 5/28/2015 12:28:15 PM PLOT BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 10:1

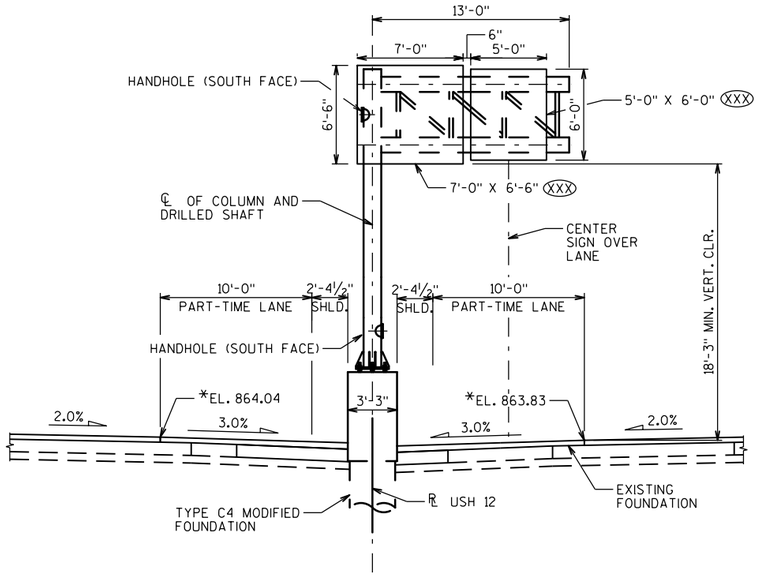
STATE PROJECT NUMBER
1206-06-79



PLAN

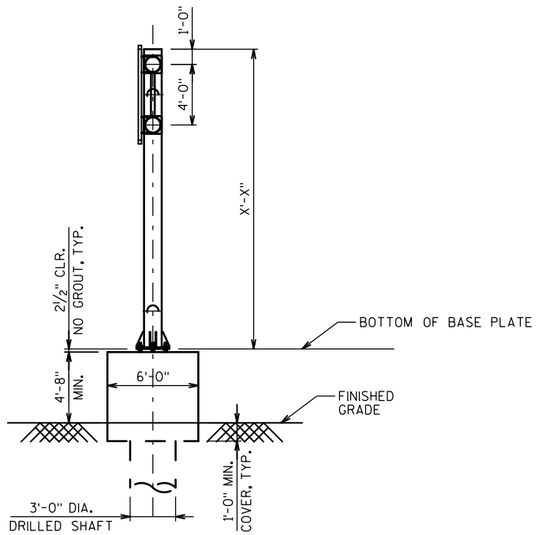


LOCATION MAP



ELEVATION

STA. 883+75 USH 12
(LOOKING DOWNSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING SOUTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 883+75.00, 14.0' RT., EL. 864.04

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2029

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2029

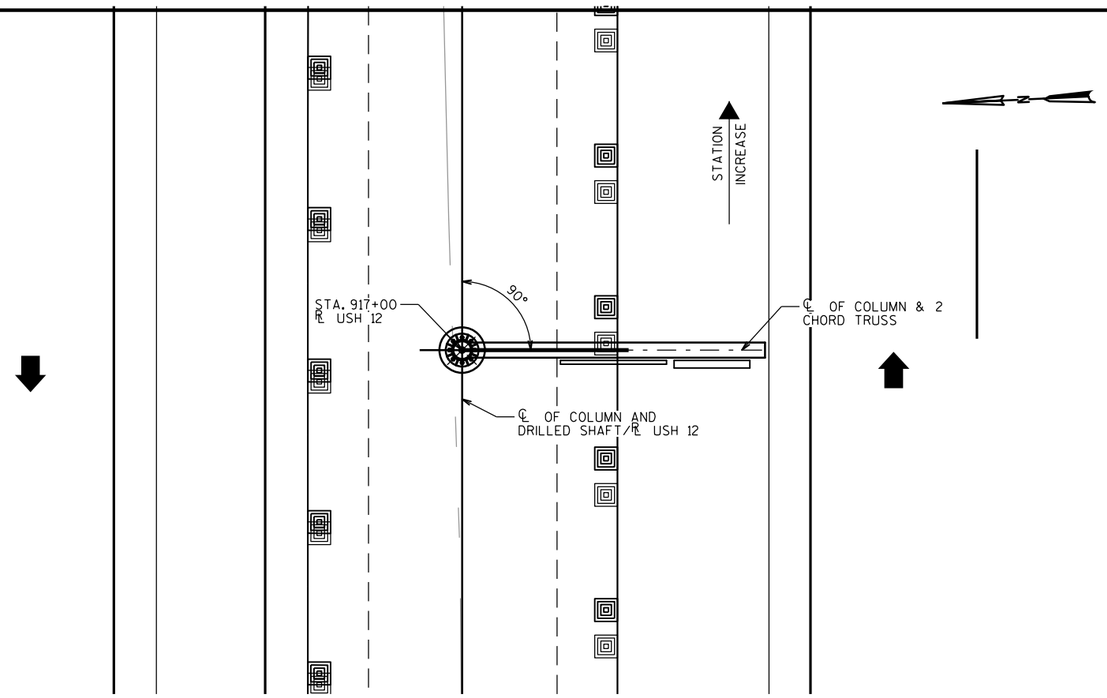
SHEET 22 OF 25

8

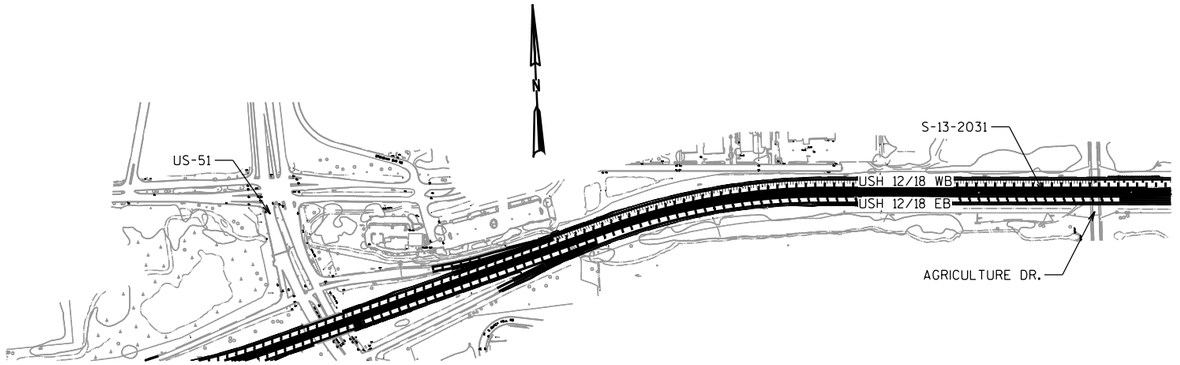
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FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\66034 Beltline DPTSU\1_Engineering\1.4_Structures\Preliminary\CAD\FED PTS\S-13-2029_GL1.dgn PLOT DATE : 2021/12/22 PLOT BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 10:1

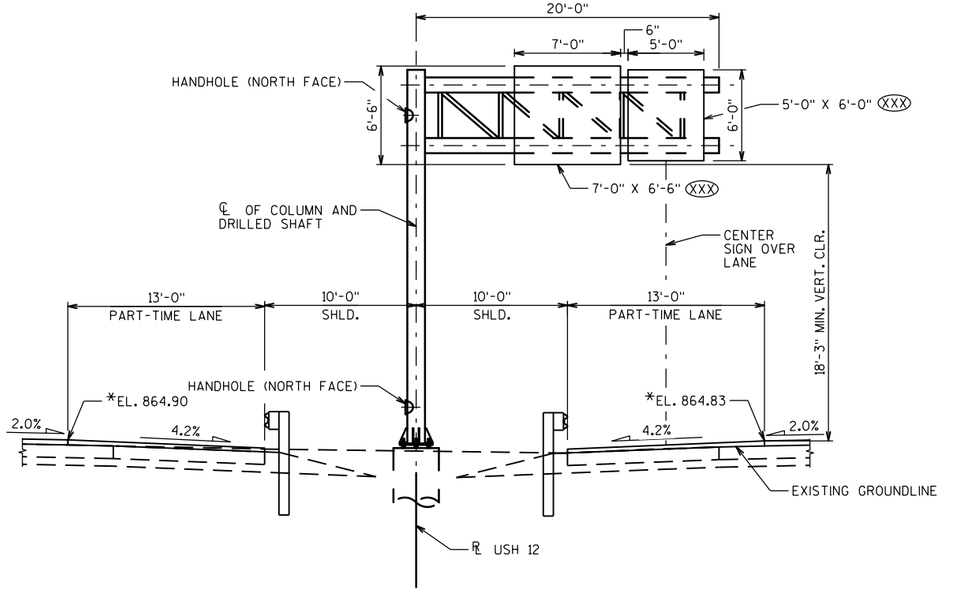
STATE PROJECT NUMBER
1206-06-79



PLAN

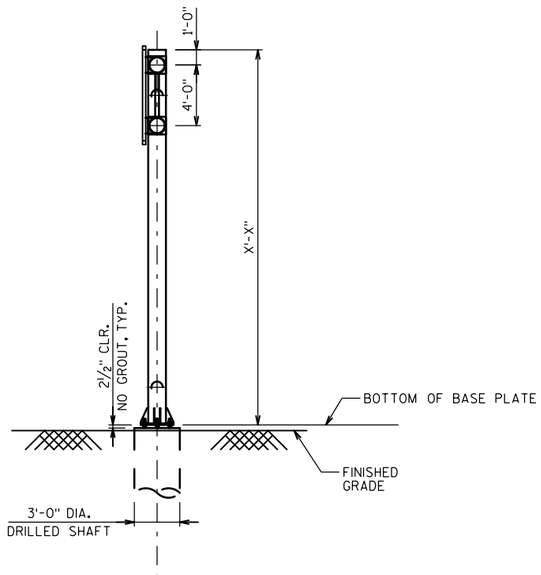


LOCATION MAP



ELEVATION

STA. 917+00 USH 12
(LOOKING UPSTATION AT FRONT OF SIGN)



SIDE VIEW

(LOOKING NORTH)

NOTES

POINT OF MIN. VERTICAL CLEARANCE
STA. 883+75.00, 14.0' RT., EL. 864.04

LEGEND

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

*ELEVATIONS GIVEN ALONG ℄ OF 2-CHORD TRUSS

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2031

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2031

SHEET 23 OF 25

8

8

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\66034 Beltline DPTSU\1_Engineering\1.4_Structures\Preliminary\CAD\PTSU2031\S2031GP01.dgn PLOTTED : 12/31/2015 12:23:12 PM PLOT BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 10:1

STATE PROJECT NUMBER

STANDARD

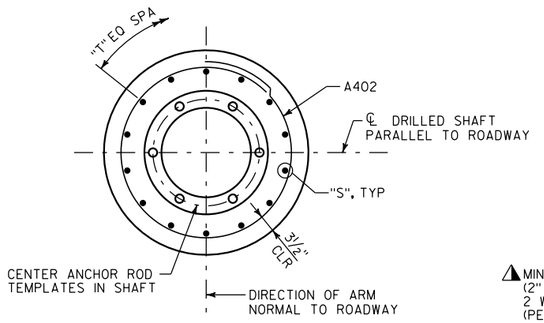
FOUNDATION SELECTION TABLE

STRUCTURE ☆ TYPE	STANDARD FOUNDATION TYPE
CANTILEVER MONOTUBE TYPE 1	C3
CANTILEVER MONOTUBE TYPE 2	C3
CANTILEVER MONOTUBE TYPE 3	C6
CANTILEVER MONOTUBE TYPE 4	C7
FULL SPAN MONOTUBE TYPE 1	C1
FULL SPAN MONOTUBE TYPE 2	C2
CANTILEVER 2-CHORD TYPE 1	C4
CANTILEVER 2-CHORD TYPE 2	C6
CANTILEVER 2-CHORD TYPE 3	C8
CANTILEVER 2-CHORD TYPE 4	C9
CANTILEVER 2-CHORD DMS	C4
FULL SPAN 2-CHORD TYPE 1	C3
FULL SPAN 2-CHORD TYPE 2	C5
FULL SPAN 2-CHORD TYPE 3	C6
FULL SPAN 2-CHORD TYPE 4	C7
FULL SPAN 2-CHORD DMS	C3

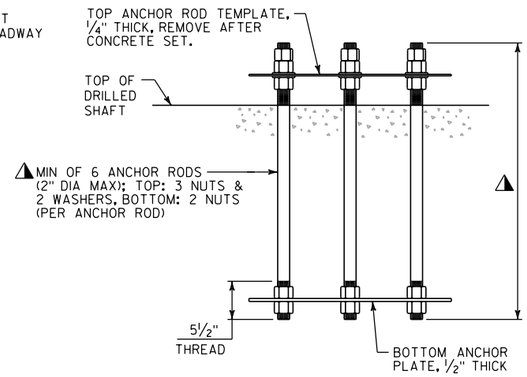
☆ STRUCTURE TYPE SELECTED PER WISDOT FACILITIES DEVELOPMENT MANUAL SECTION 11-55-20

FOUNDATION & REINFORCING DATA

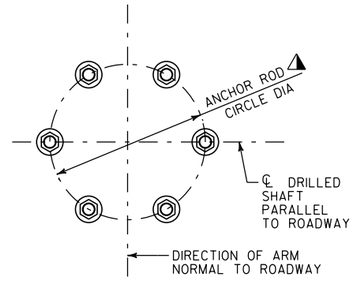
STANDARD FOUNDATION TYPE	SHAFT VARIABLES					
	"D"	"L"	"R"	"S"	"T"	"BC" MAX
C1	2'-0"	12'-0"	12	A801	6	12"
C2	2'-6"	13'-0"	13	A801	10	17"
C3	2'-6"	17'-0"	17	A801	10	17"
C4	3'-0"	18'-0"	18	A801	14	22"
C5	3'-0"	20'-0"	20	A801	14	22"
C6	3'-6"	18'-0"	18	A901	14	28"
C7	3'-6"	23'-0"	23	A901	14	28"
C8	4'-0"	23'-0"	23	A1001	14	34"
C9	4'-0"	28'-0"	28	A1001	14	34"



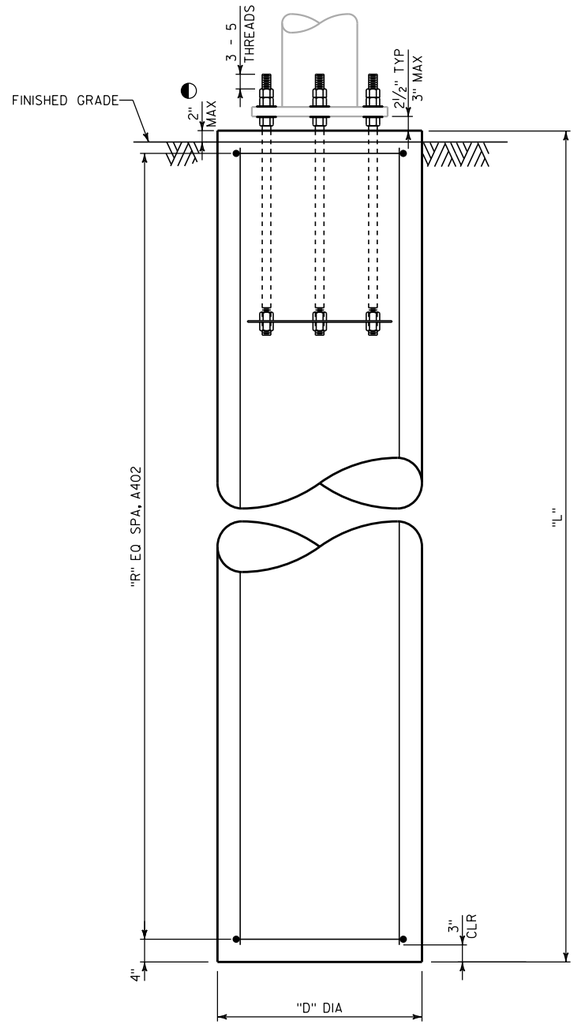
PLAN



ELEVATION



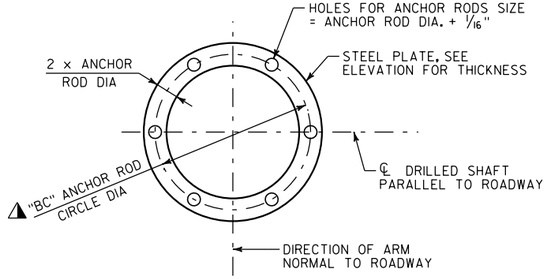
PLAN



ELEVATION

ANCHOR ROD ASSEMBLY DETAILS

⚠ EXACT NUMBER, DIAMETER, LENGTH & ORIENTATION AS SHOWN ON FABRICATION DRAWING.



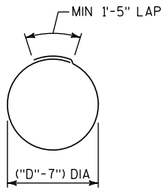
ANCHOR PLATE/TOP TEMPLATE

PLAN

NOTE:
THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.

BILL OF BARS - FOUNDATIONS

BAR MARK	COAT	NO REQ'D	LENGTH	BENT	LOCATION
STD FOUNDATION TYPE C1					
A801		6	11'-7"		DRILLED SHAFT - VERTICAL
A402		13	5'-10"	X	DRILLED SHAFT - HORIZONTAL
STD FOUNDATION TYPE C2					
A801		10	12'-7"		DRILLED SHAFT - VERTICAL
A402		14	7'-5"	X	DRILLED SHAFT - HORIZONTAL
STD FOUNDATION TYPE C3					
A801		10	16'-7"		DRILLED SHAFT - VERTICAL
A402		18	7'-5"	X	DRILLED SHAFT - HORIZONTAL
STD FOUNDATION TYPE C4					
A801		14	17'-7"		DRILLED SHAFT - VERTICAL
A402		19	9'-0"	X	DRILLED SHAFT - HORIZONTAL
STD FOUNDATION TYPE C5					
A801		14	19'-7"		DRILLED SHAFT - VERTICAL
A402		21	9'-0"	X	DRILLED SHAFT - HORIZONTAL
STD FOUNDATION TYPE C6					
A901		14	17'-7"		DRILLED SHAFT - VERTICAL
A402		19	10'-6"	X	DRILLED SHAFT - HORIZONTAL
STD FOUNDATION TYPE C7					
A901		14	22'-7"		DRILLED SHAFT - VERTICAL
A402		24	10'-6"	X	DRILLED SHAFT - HORIZONTAL
STD FOUNDATION TYPE C8					
A1001		14	22'-7"		DRILLED SHAFT - VERTICAL
A402		24	12'-2"	X	DRILLED SHAFT - HORIZONTAL
STD FOUNDATION TYPE C9					
A1001		14	27'-7"		DRILLED SHAFT - VERTICAL
A402		29	12'-2"	X	DRILLED SHAFT - HORIZONTAL



A402

ESTIMATED QUANTITIES - FOUNDATIONS

STANDARD FOUNDATION TYPE	ANCILLARY STRUCTURES CONCRETE MASONRY (CY)	ANCILLARY STRUCTURES STEEL REINFORCEMENT HS (LBS)	FOUNDATION DRILLING (LF)
C1	2	240	12
C2	3	410	13
C3	4	530	17
C4	5	770	18
C5	6	860	20
C6	7	970	18
C7	9	1,240	23
C8	11	1,560	23
C9	13	1,900	28

NOTES

CENTER ANCHOR ROD ASSEMBLY ON DRILLED SHAFT AND MAKE SURE IT IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE FOOTING AS DETAILED. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHOR RODS.

◐ FOR OVERHEAD SIGN STRUCTURES THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE SHAFT SHALL BE POURED FLUSH WITH THE FINISHED GRADE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STANDARD

JAN 2020

OSS MONOTUBE & 2-CHORD TRUSS STANDARD FOUNDATIONS

SHEET 1 OF 1

SCALE: 3.333333:1

8

8

STATE PROJECT NUMBER
1206-06-79

DESIGN DATA

SIGN STR	ACTUAL SIGN AREA TYPE 1	ACTUAL SIGN HEIGHT TYPE 1
S-13-542	XXX SF	XXX SF
S-13-543	XXX SF	XXX SF
S-13-544	XXX SF	XXX SF
S-13-545	XXX SF	XXX SF
DESIGN SIGN	XXX SF	XXX SF

ALL STRUCTURES IN THIS GROUP OF STRUCTURES ARE DESIGNED FOR THE DESIGN SIGN LOADING

DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL

FOUNDATION DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

DEAD LOAD - WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD - 3 PSF TO ONE FACE OF SIGN & AROUND SURFACE OF MEMBERS.
WIND PRESSURE - 120 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (1700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1	1.0	0.0
LOAD CASE 2	0.0	1.0
LOAD CASE 3	0.75	0.75

LOAD COMBINATIONS

STRENGTH I: 1.25 DC + 1.6 LL
EXTREME I (MAX DC): 1.1 DC + 1.0 W + 1.0 ICE
EXTERME I (MIN DC): 0.9 DC + 1.0 W
SERVICE I: 1.0 DC + 1.0 W
FATIGUE I: 1.0 NWG (NATURAL WIND GUST VIBRATION)
1.0 TrG (TRUCK INDUCED GUST VIBRATION)

MATERIAL PROPERTIES

CONCRETE MASONRY ---------- f'c = 3,500 psi

HIGH STRENGTH STEEL
REINFORCEMENT, GRADE 60 ---------- fy = 60,000 psi

STRUCTURAL ANGLES,
PLATE AND BARS - ASTM A709 GRADE 36 -------- fy = 36,000 psi

CHORDS & COLUMN PIPE - ASTM A500 GRADE C -- fy = 46,000 psi

HIGH STRENGTH BOLTS - A325 ---------- fy = 92,000 psi

ANCHOR RODS - ASTM F1554 GRADE 55 ---------- fy = 55,000 psi

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DANE COUNTY ZONE, NAD 83 (2011). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2012).

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS CANTILEVER S-13-XXX" FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

IF REQUIRED, CATWALKS SHALL BE INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS CANTILEVER S-13-XXX" FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH ¾" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS SHALL BE 1/4 THE LENGTH OF THE CANTILEVER SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, AND SHALL BE CENTERED ON THE BRIDGE. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES AND STORM SEWER IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AND STORM SEWER AS MAY BE NECESSARY TO AVOID DAMAGE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON SHOP DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "FOUNDATION DRILLING".

TRAFFIC VOLUME

A.D.T. (2036) = 139,650-164,190
R.D.S. = 60 MPH

FOUNDATION DATA

SIGN STRUCTURE FOUNDATIONS ARE SUPPORTED ON DRILLED SHAFTS THAT HAVE BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 24° (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 750 PSF (COHESIVE SOILS) AND A UNIT WEIGHT OF 125 PCF. THE GROUND WATER TABLE IS ASSUMED TO BE AT A DEPTH OF 10'-0" BELOW THE GROUND SURFACE. THE REGION GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT THE SUBSURFACE SOILS DURING DRILLING OF THE SHAFT HOLE TO CONFIRM THESE PROPERTIES PRIOR TO PLACEMENT OF THE DRILLED SHAFT CONCRETE.

LIST OF DRAWINGS

1. GENERAL NOTES & DESIGN DATA
2. GENERAL LAYOUT S-13-542
3. GENERAL LAYOUT S-13-543
4. GENERAL LAYOUT S-13-544
5. GENERAL LAYOUT S-13-545

LIST OF OSS STANDARD DESIGN DRAWINGS

6. I. OSS 4-CHORD TRUSS CANTILEVER
7. II. OSS 4-CHORD TRUSS CANTILEVER DETAILS (1 OF 3)
8. III. OSS 4-CHORD TRUSS CANTILEVER DETAILS (2 OF 3)
9. IV. OSS 4-CHORD TRUSS CANTILEVER DETAILS (3 OF 3)
10. V. OSS 4-CHORD TRUSS CANTILEVER FOUNDATION DETAILS (1 OF 2)
11. VI. OSS 4 -CHORD TRUSS CANTILEVER FOUNDATION DETAILS (2 OF 2)
12. VIII. OSS 4-CHORD TRUSS CANTILEVER ELECTRICAL DETAILS

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEMS	UNIT	S-13-542	S-13-543	S-13-544	S-13-545
502.3210	PIGMENTED SURFACE SEALER	SY	--	--	--	--
531.0036	FOUNDATION DRILLING 36-INCH	LF	--	--	--	--
531.1000	ANCILLARY STRUCTURES CONCRETE MASONRY	CY	--	--	--	--
531.2400	ANCILLARY STRUCTURES STEEL REINFORCEMENT HS	LB	--	--	--	--
531.2600	ANCILLARY STRUCTURES STEEL REINFORCEMENT HS COATED	LB	--	--	--	--
531.6050	ANCHOR ASSEMBLIES 2-INCH	EA	--	--	--	--
532.0100.001	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS CANTILEVER S-13-542	LF	--	--	--	--
532.0100.002	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS CANTILEVER S-13-543	LF	--	--	--	--
532.0100.003	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS CANTILEVER S-13-544	LF	--	--	--	--
532.0100.004	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS CANTILEVER S-13-545	LF	--	--	--	--

1078 PLANS

THE DESIGNER CERTIFIES THAT THE SIGN STRUCTURE GEOMETRY AND STANDARD FOUNDATION CHOSEN ARE CONSISTENT WITH THE GUIDANCE PROVIDED IN THE CURRENT WISCONSIN BRIDGE MANUAL CHAPTER 39.

STRUCTURE DESIGN CONTACTS

BUREAU OF STRUCTURES:
SUPERVISOR:
AARON BONK (608) 261-0261

CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

HNTB (414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

OSS 4-CHORD TRUSS CANTILEVER PLANS

CANTILEVER SPAN SIGN STRUCTRES
USH 12/18 EB&WB

COUNTY	CITY OR TOWN
DANE	MADISON

DESIGN SPEC.
AASHTO LRFDLTS-1 W/INTERIMS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.

GENERAL NOTES, DESIGN DATA & QUANTITES

SHEET 1 OF 12

8

8

STATE PROJECT NUMBER
1206-06-79

584CL

STATION INCREASE

90°

℄ USH 12

POINT OF MIN. VERTICAL CLR.

℄ COLUMN & DRILLED SHAFT

℄ COLUMN & TRUSS

STA. 584+25.00
℄ USH 12
OFFSET 77.0'LT.

3'-9"

PROPOSED GUARDRAIL

PLAN VIEW

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ TRUSS

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

NOTE

POINT OF MIN VERTICAL CLEARANCE
STA XXX+XX.XX, XX.XX'RT.
EL XXX.XX

30'-0"

15'-0"

13'-9"

5'-0"

H = 21'-9¼"

℄ COLUMN & DRILLED SHAFT

15'-0" X 7'-0" (XXX)

18'-3" MIN. VERTICAL CLR.

℄ USH 12

3'-10½" SHOULDER

10'-0" PART-TIME LANE 3.0%

11'-0" TRAFFIC LANE 2.0%

11'-0" TRAFFIC LANE 2.0%

11'-0" TRAFFIC LANE 2.0%

15'-5" TRAFFIC LANE 2.8%

6'-7½" SHOULDER 4.0%

7'-0"

BOTTOM OF BASE PLATE

3" CLR. NO GROUT

EL XXX.XX ☆ TOP OF CONC

EXISTING GROUNDLINE

CROWN POINT EL XXX.XX ☆

FINISHED GRADE LINE

PROPOSED GUARDRAIL

ELEVATION VIEW

STA. 584+25.00
(LOOKING DOWN STATION AT FRONT OF SIGN)

3'-9"

℄ COLUMN & TRUSS

15'-0"

4'-6"

3'-0" DIA. SHAFT, TYP.

END VIEW

LOOKING SOUTH

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-542

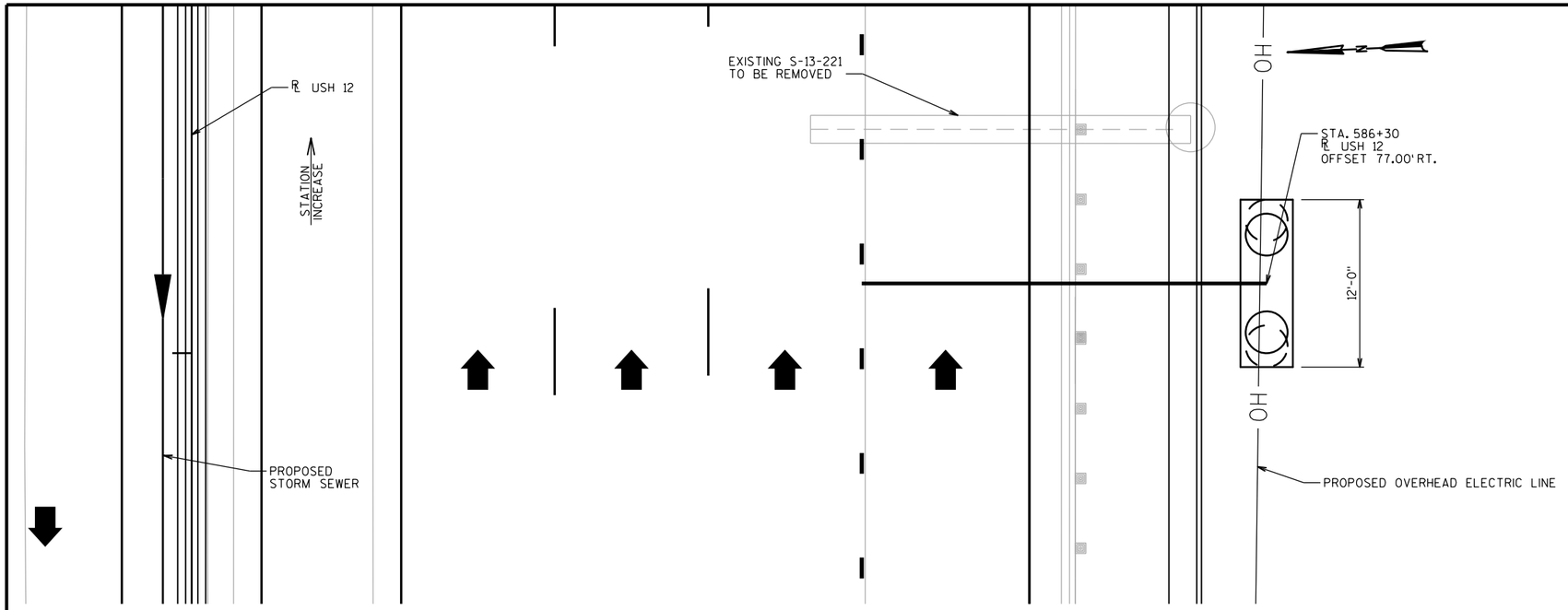
DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-542

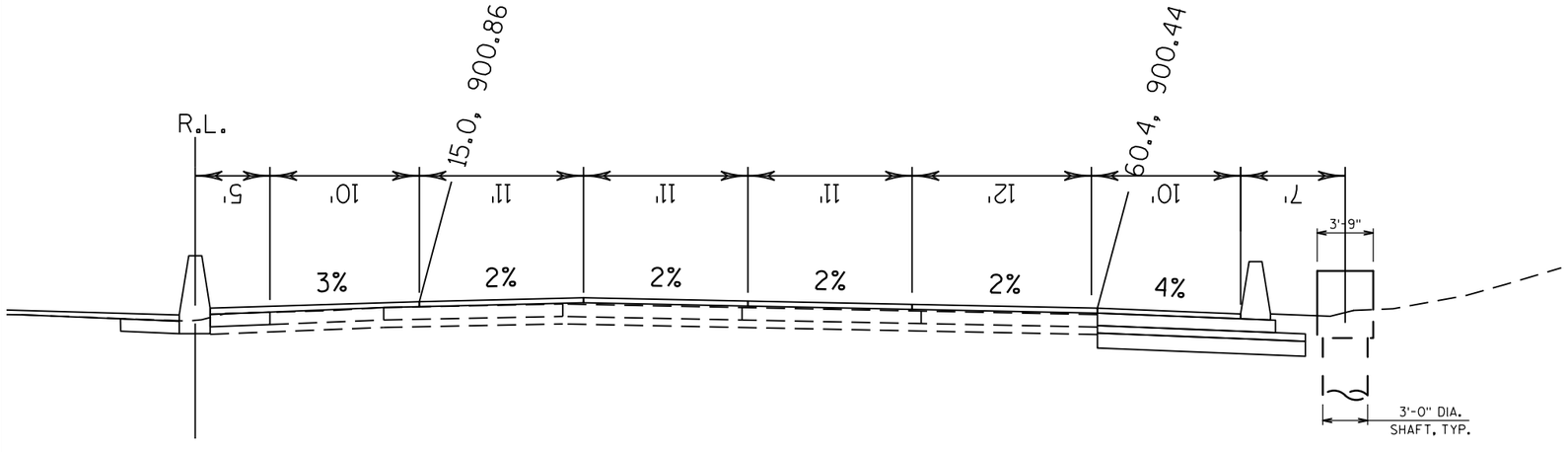
SHEET 2 OF 12

8

8



PLAN



ELEVATION

STATE PROJECT NUMBER

1206-06-79

8

8

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-543

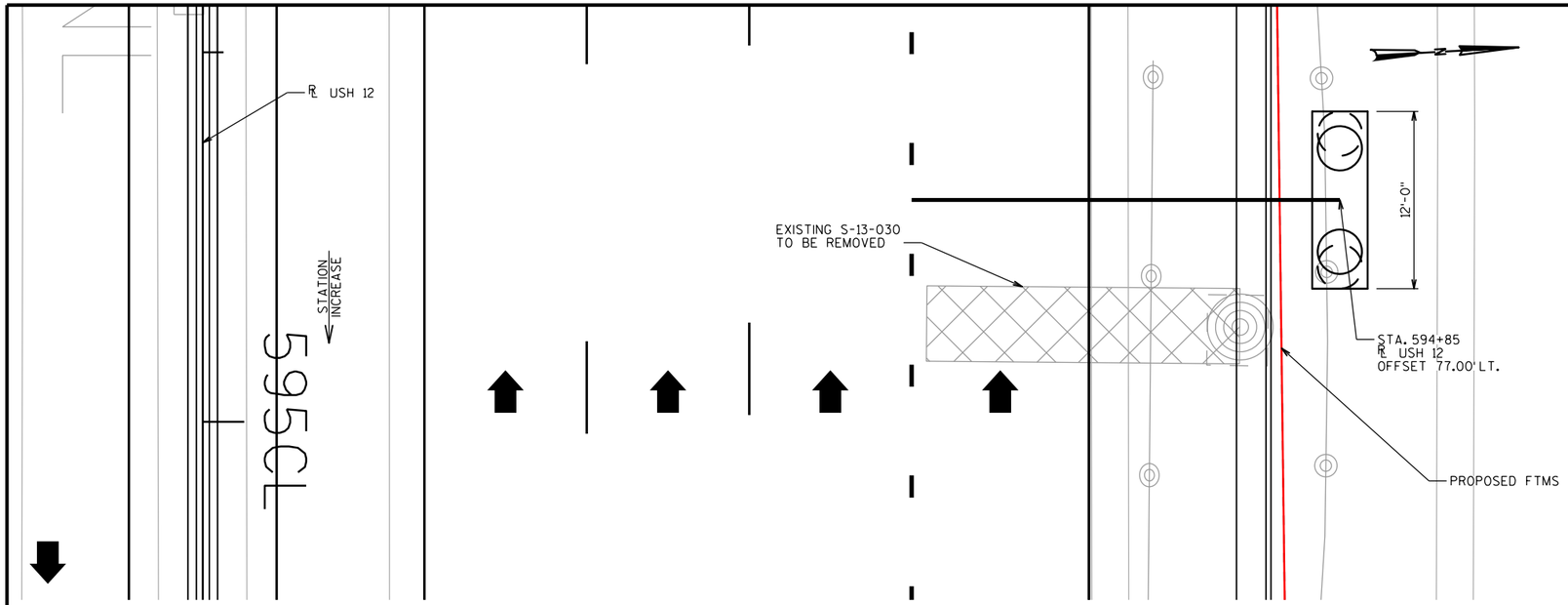
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GENERAL LAYOUT
S-13-543

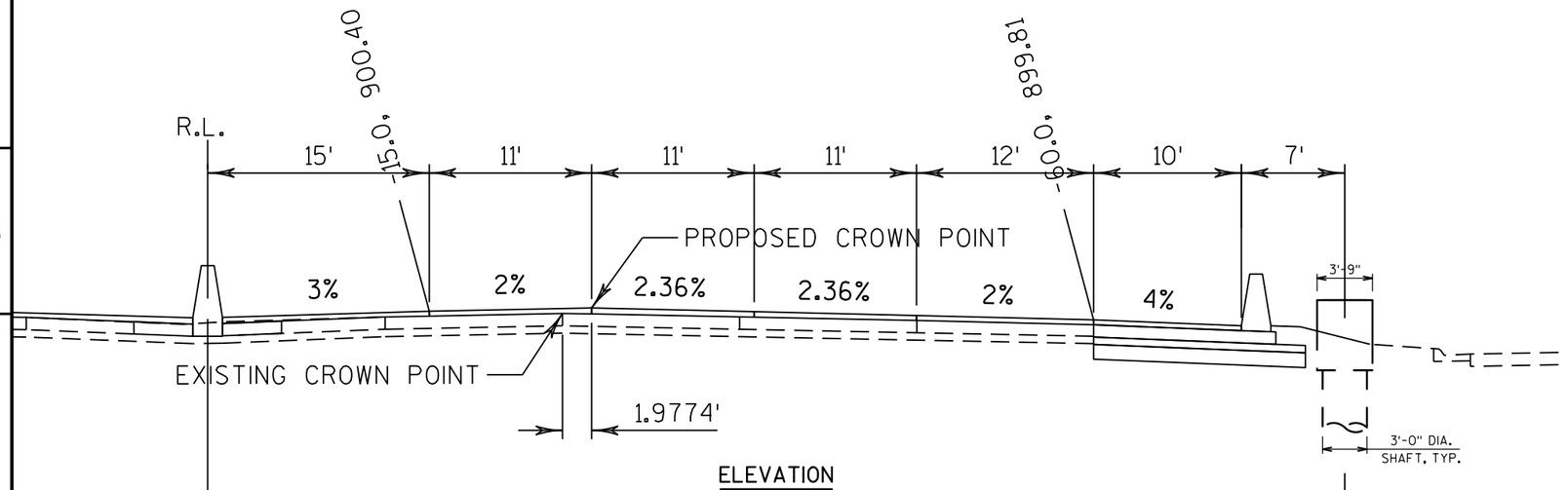
SHEET 3 OF 12

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\66034 Beltline DPTSU\1_Engineering\1.4_Structures\Preliminary\CAD\Sta 12 2020\S-13-543_P03_gp.dgn PLOT BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 10:1

STATE PROJECT NUMBER
1206-06-79



PLAN



ELEVATION

8

8

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-544

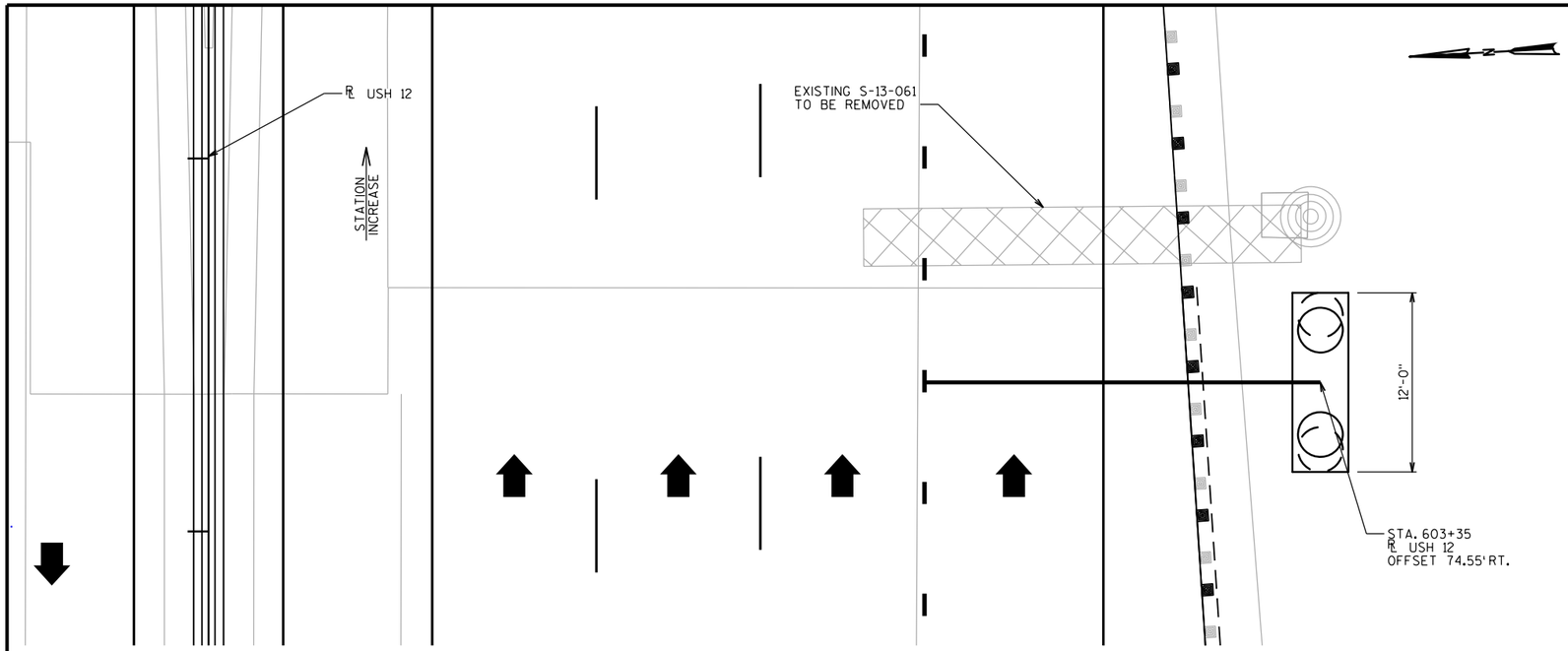
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GENERAL LAYOUT
S-13-544

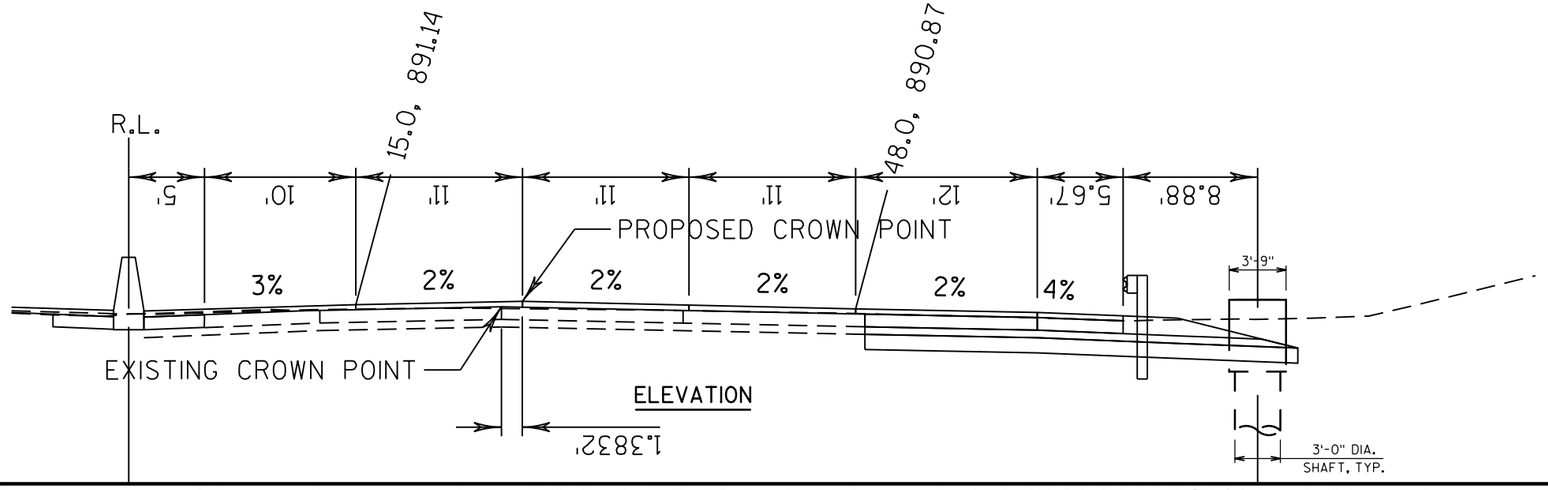
SHEET 4 OF 12

FILE NAME : pw:\\pw-int.hntb.org:PWGreat_Lakes\Documents\Madison Projects\66034 Beltline DPTSU\1_Engineering\1.4_Structures\Preliminary\CAD\ES\s13x544_S213503_P04_gp.dgn PLOT BY : ejelinek PLOT NAME : $FILE$ PLOT SCALE : 10:1

STATE PROJECT NUMBER
1206-06-79



PLAN



ELEVATION

8

8

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-545

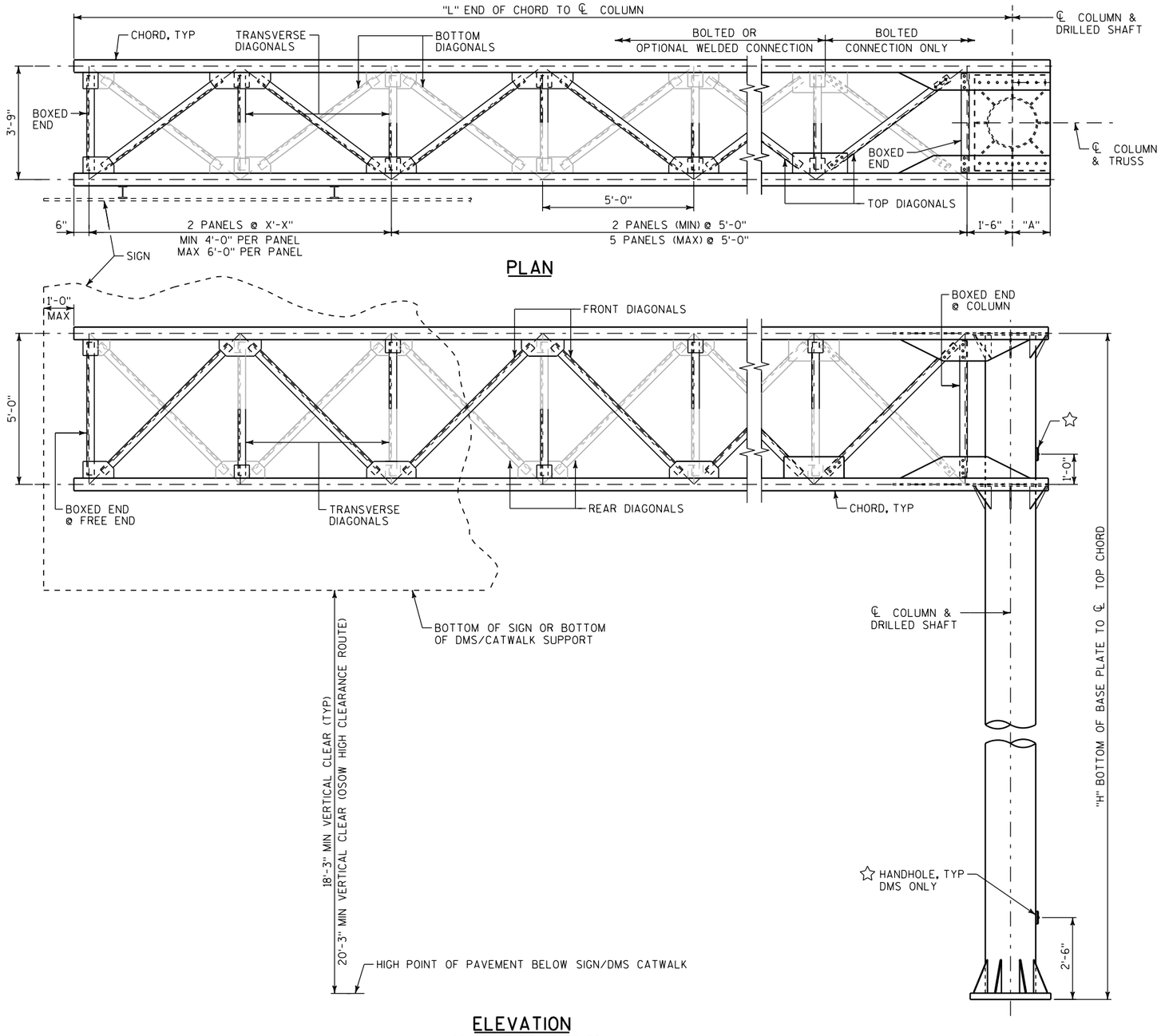
DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-545

SHEET 5 OF 12

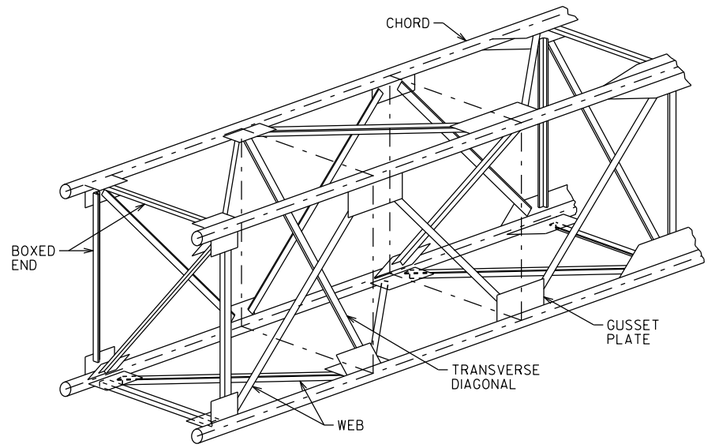
STATE PROJECT NUMBER

STANDARD



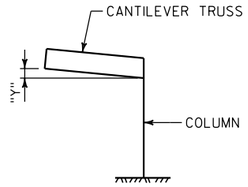
ELEVATION

LOOKING AT F.F. OF TRUSS



TYPICAL TRUSS SECTION

THE GENERAL PATTERN SHOWN ABOVE IS TO BE MAINTAINED WHEN ASSEMBLING TRUSSES.



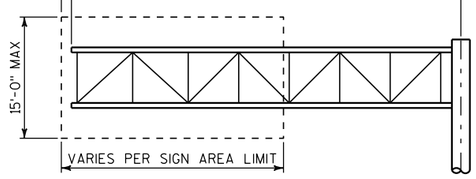
CAMBER DIAGRAM

PREFABRICATE CAMBER INTO THE HORIZONTAL SUPPORT PROVIDING AN AMOUNT "Y" AT THE END OF TRUSS AS SHOWN. DO NOT RAKE VERTICAL COLUMN BY ADJUSTMENT OF LEVELING NUTS.

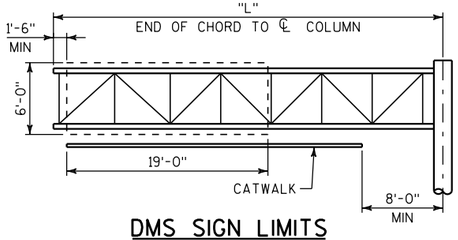
CAMBER VALUES

DIM "L" / "H"	"Y" (IN) 30' TYPE I	30' DMS	38' TYPE I	38' DMS
22'	2 1/4"	3 1/2"	2 5/8"	4 1/8"
24'	2 3/8"	3 7/8"	2 7/8"	4 1/2"
26'	2 1/2"	4 1/8"	3 1/8"	4 7/8"
28'	2 3/4"	4 1/2"	3 1/4"	5 1/4"
30'	2 7/8"	4 3/4"	3 1/2"	5 5/8"

INTERPOLATE FOR VALUES NOT SHOWN. DMS VALUES INCLUDE DL OF CATWALK.



TYPE 1 SIGN LIMITS



DMS SIGN LIMITS

2,500 LB MAX DMS WEIGHT, INCLUDES DMS VERTICAL SUPPORT MEMBERS

CANTILEVER 4-CHORD TRUSS MEMBER TABLE

STANDARD DESIGN TRUSS	TYPE I SIGN AREA (FT^2)	DMS AREA (FT^2)	MAXIMUM SPAN "L"	MAXIMUM COL HEIGHT "H"	DIM "A"	COLUMN OUTER DIA. X THK	CHORD OUTER DIA. X THK	WEB W X D X THK	BOXED END W X D X THK	TRANSVERSE DIAGONAL W X D X THK
1	264	114	30'-0"	30'-0"	1'-3"	20.00" x 0.500"	5.000" x 0.375"	L3x3x1/4	L3x3x1/4	L3x3x1/4
2	240	114	38'-0"	30'-0"	1'-5"	24.00" x 0.500"	5.563" x 0.375"	L3x3x5/16	L3x3x1/4	L3x3x1/4

LEGEND

☆ FOR OSS WITH DMS ONLY, PROVIDE HANDHOLES AS SHOWN. SEE "ELECTRICAL DETAILS" SHEET.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STANDARD

JAN 2020

OSS 4-CHORD TRUSS CANTILEVER

SHEET I OF VIII

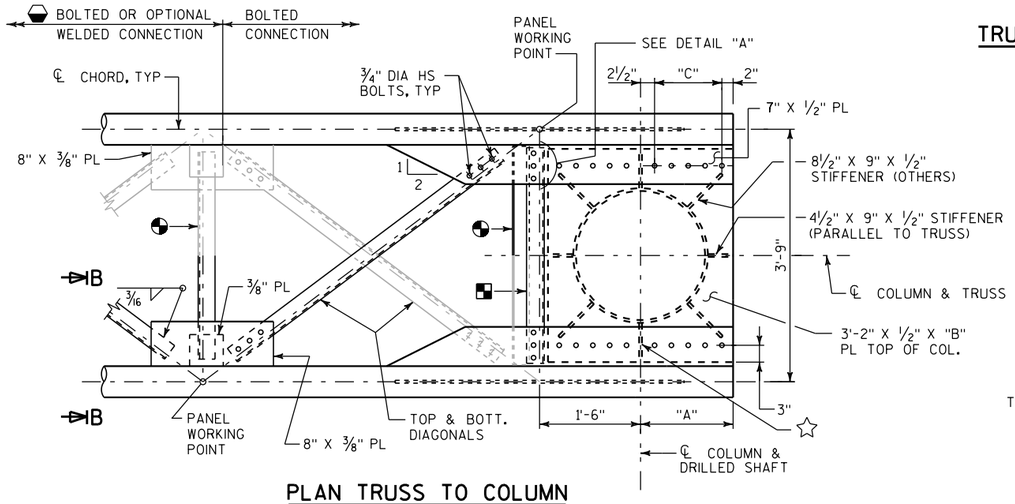
SCALE: 4:1

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8

STATE PROJECT NUMBER

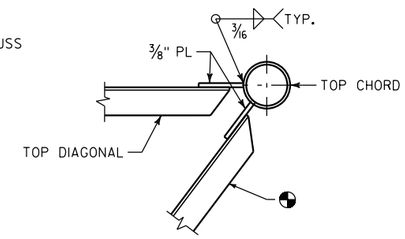
STANDARD



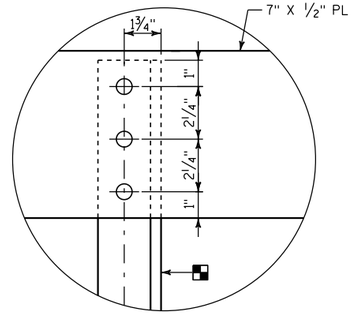
PLAN TRUSS TO COLUMN

TRUSS TO COLUMN CONNECTION DATA

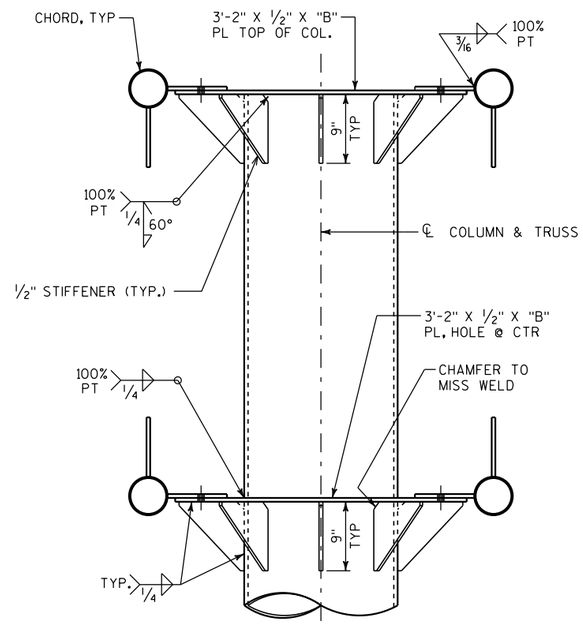
STANDARD DESIGN TYPE	"A"	"B"	"C"
1	1'-3"	2'-6"	3 SPA @ 3½"
2	1'-4½"	2'-9"	4 SPA @ 3"



SECTION B-B

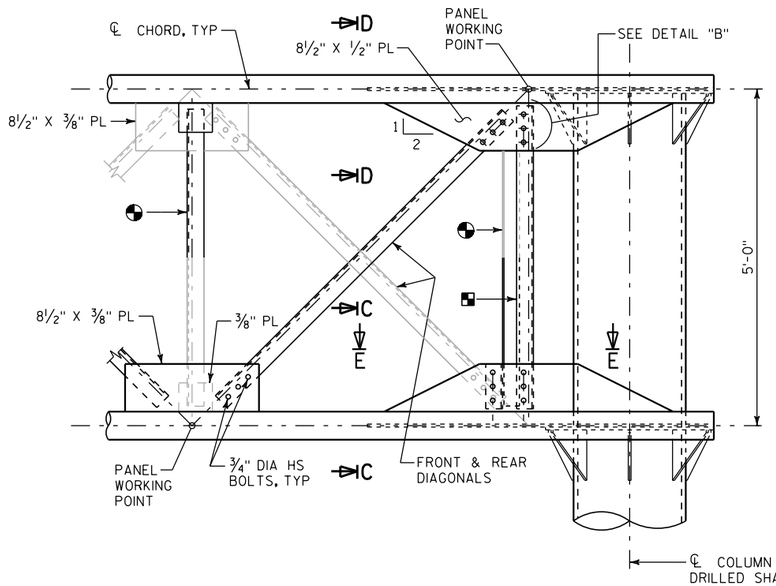


DETAIL "A"

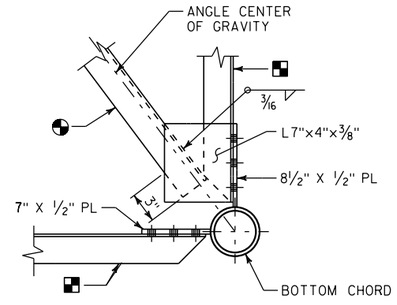


END VIEW TRUSS TO COLUMN

(WEB MEMBERS NOT SHOWN)

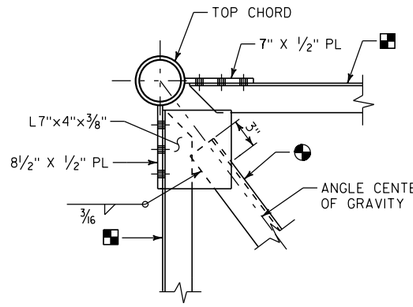


ELECATION TRUSS TO COLUMN



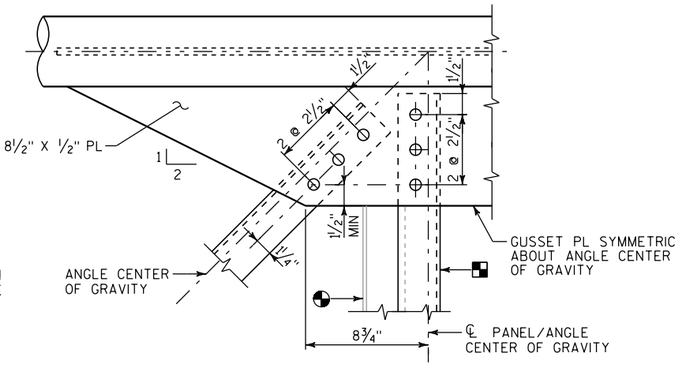
SECTION C-C

(FRONT CHORD)

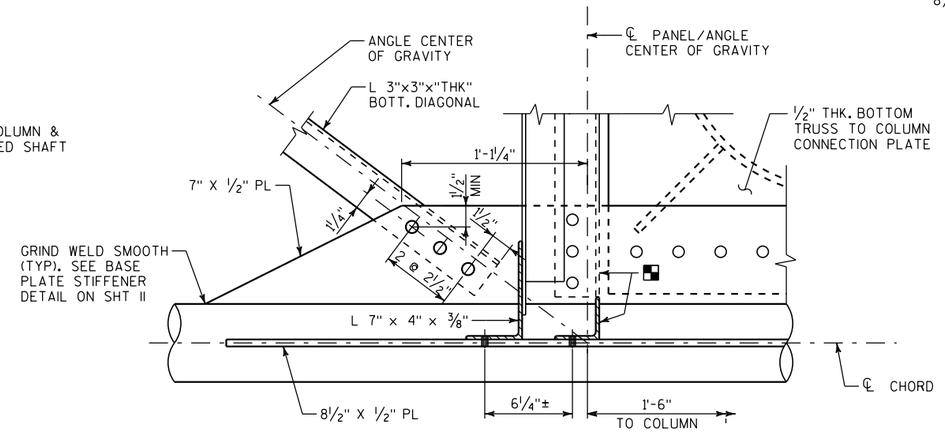


SECTION D-D

(BACK CHORD)



DETAIL "B"



SECTION E-E

(LOOKING DOWN @ BOTT. HORIZ. PLANE @ FRONT CHORD)

LEGEND

- TRANSVERSE DIAGONAL
- BOXED END @ SUPPORT
- WELDED CONNECTIONS MAY BE USED IF UNIT CAN BE GALVANIZED IN ONE PIECE.
- ☆ 7" X 9" X ½" STIFFENER STD DESIGN TYPE 2 ONLY, TYP OPPOSITE SIDE

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STANDARD

JAN 2020

OSS 4-CHORD TRUSS CANTILEVER DETAILS (1 OF 3)

SHEET II OF VIII

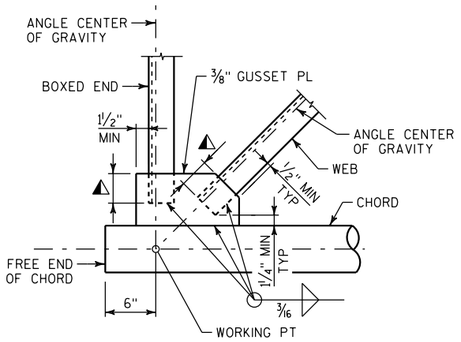
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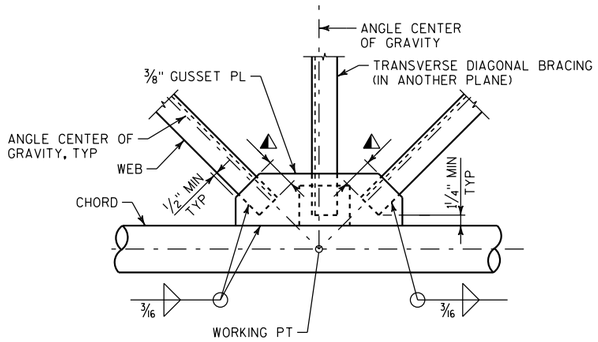
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STATE PROJECT NUMBER

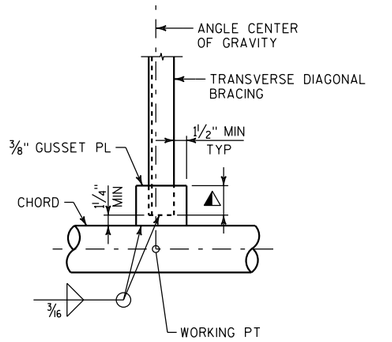
STANDARD



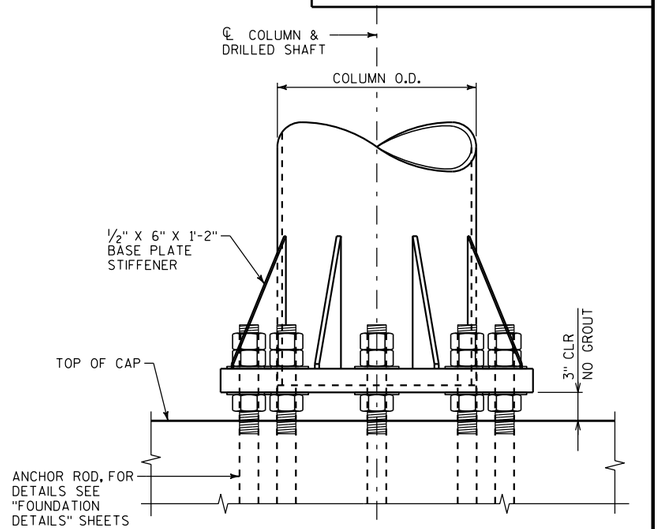
WELDED BOXED END CONNECTION



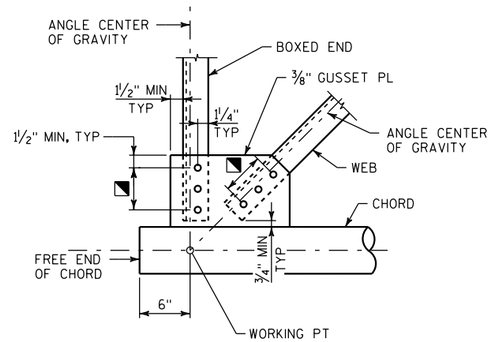
WELDED PANEL CONNECTION



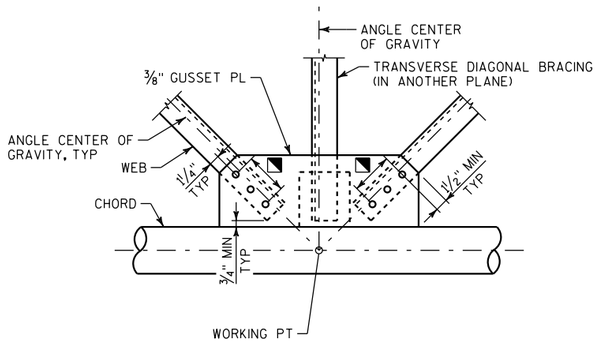
WELDED INTERIOR DIAGONAL CONNECTION



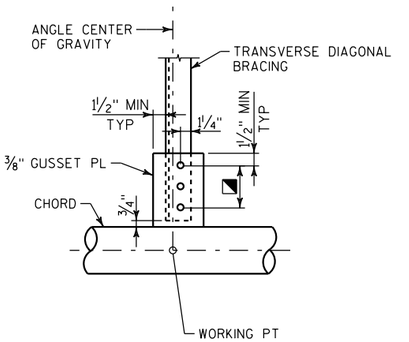
BASE PLATE & COLUMN DETAIL



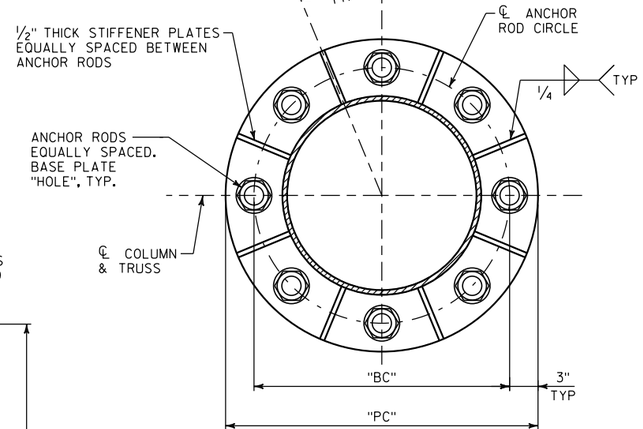
BOLTED BOXED END CONNECTION



BOLTED PANEL CONNECTION

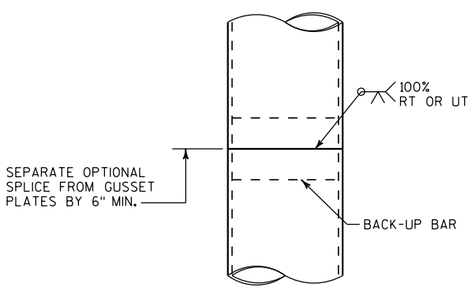


BOLTED INTERIOR DIAGONAL CONNECTION



BASE PLATE

PLAN



OPTIONAL COLUMN OR CHORD SPLICE DETAIL

NOTE

FABRICATOR HAS THE OPTION TO USE NON-MITERED, RECTANGULAR GUSSET PLATES IN LIEU OF MITERED PLATES SHOWN ON THESE DETAILS.

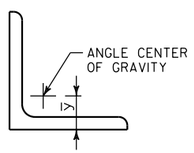
MEMBER CONNECTION DATA

STANDARD DESIGN TYPE	WELD LEG LENGTH ◭	NO. OF BOLTS ◹
1	3" MIN	3
2	3" MIN	3

FOR ALL ANGLE TO GUSSET CONNECTIONS, BOLT SPACING = 2 1/2"

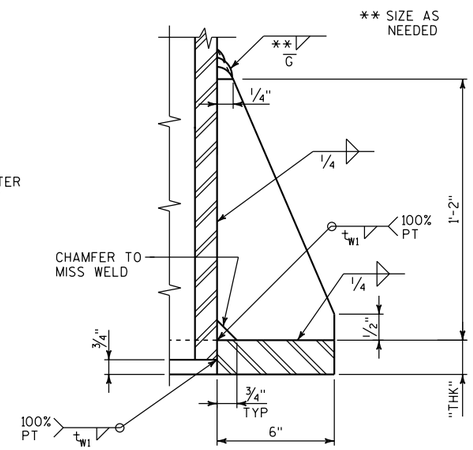
ANGLE DATA

ANGLE SIZE	$\bar{y}$
L3x3x1/4	0.836"
L3x3x5/16	0.860"



CANTILEVER 4-CHORD COLUMN DATA TABLE

STANDARD DESIGN TYPE	COLUMN OUTER DIA x THK	BASE PLATE				
		"t_{w1}"	"HOLE"	"THK"	"BC"	"PC"
1	20.00" x 0.500"	5/16"	2 1/4"	2"	2'-2"	2'-8"
2	24.00" x 0.500"	5/16"	2 1/4"	2 1/2"	2'-6"	3'-0"



BASE PLATE STIFFENER DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STANDARD

JAN 2020

OSS 4-CHORD TRUSS CANTILEVER DETAILS (2 OF 3)

SHEET III OF VIII

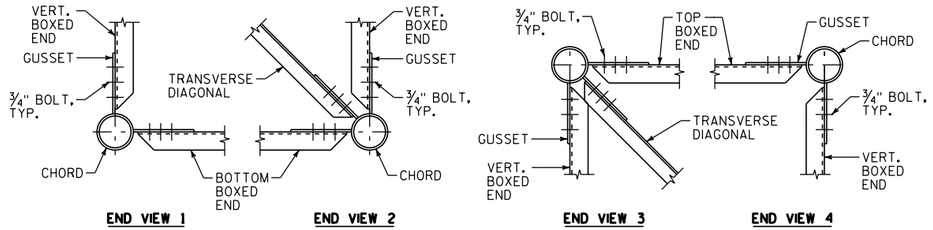
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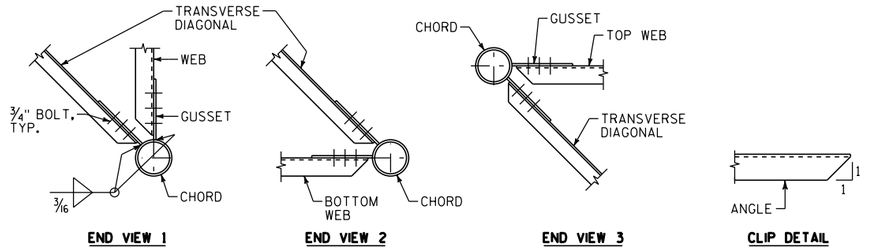
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8

STATE PROJECT NUMBER

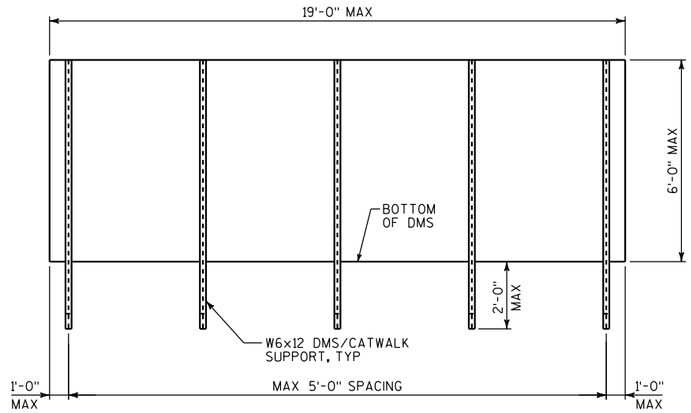
STANDARD





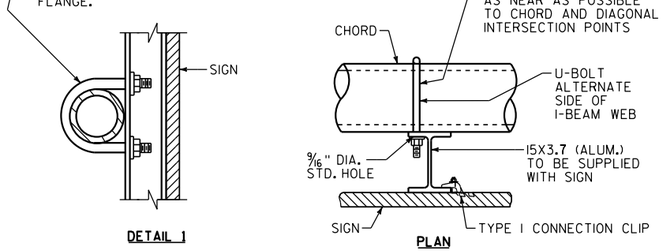
TRUSS CONNECTION DETAILS

BOLTED CONNECTIONS SHOWN, WELDED CONNECTIONS SIMILAR



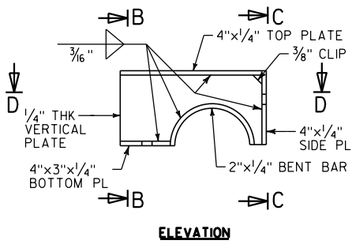
DMS MOUNTING POST SPACING DETAIL

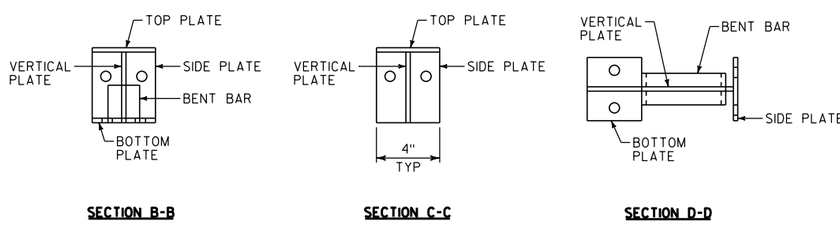
POST SPACING MAY BE ADJUSTED AS REQUIRED IF CONFLICT WITH TRUSS IS ENCOUNTERED.



TYPICAL SIGN CONNECTION

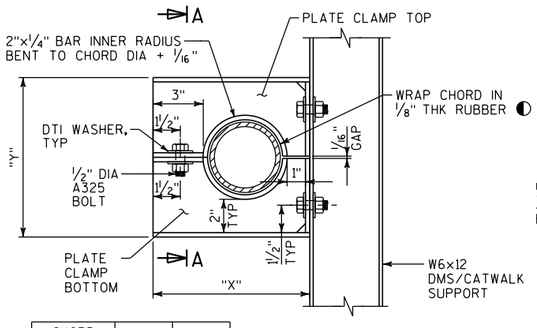
USE FOR TYPE I AND II SIGNS
SEE SIGN PLATE MANUAL A4-7A & A4-7B FOR DETAILS



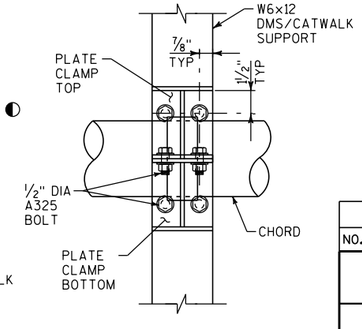


DMS WELDED PLATE CONNECTION DETAILS

TOP PLATE CLAMP SHOWN
BOTTOM PLATE CLAMP SIMILIAR

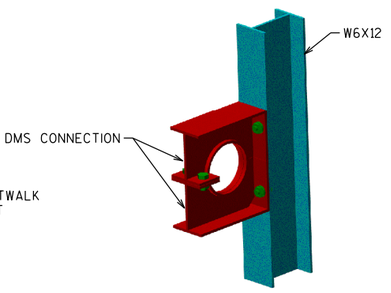


CHORD OUTER DIA	"X"	"Y"
5.000"	9 13/16 "	10 1/16 "
5.563"	10 3/8"	10 5/8"



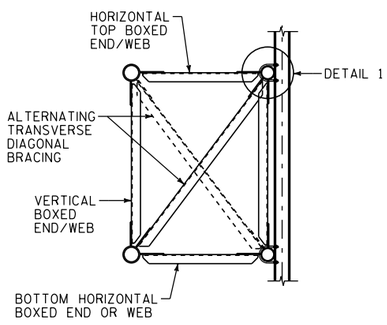
TYPICAL DMS CONNECTION

◐ NEOPRENE, GRADE 45±5, OTHERWISE MEETING THE REQUIREMENTS OF STD SPEC 506.2.6.1



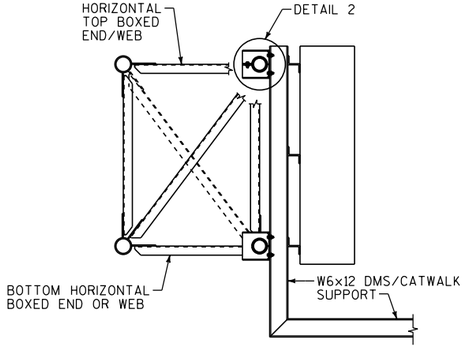
3-D VIEW DMS CONNECTION

CHORD NOT SHOWN FOR CLARITY



SECTION THRU TRUSS

FOR SIGN CONNECTION



SECTION THRU TRUSS

FOR DMS/CATWALK CONNECTION

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STANDARD

JAN 2020

OSS 4-CHORD TRUSS CANTILEVER DETAILS (3 OF 3)

SHEET IV OF VIII

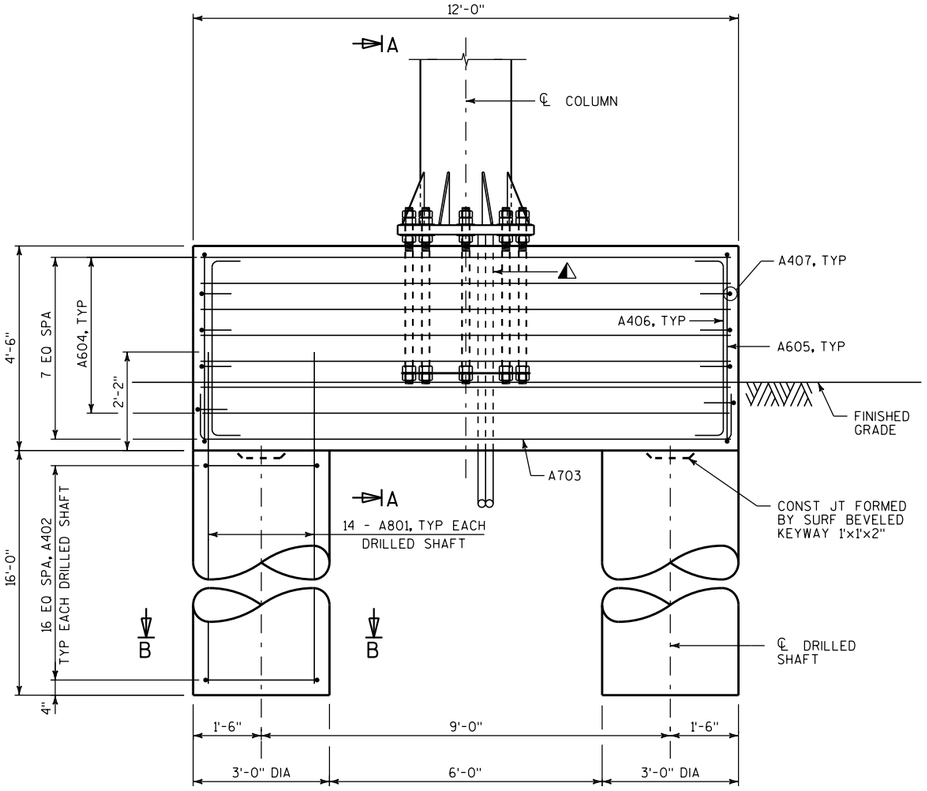
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8

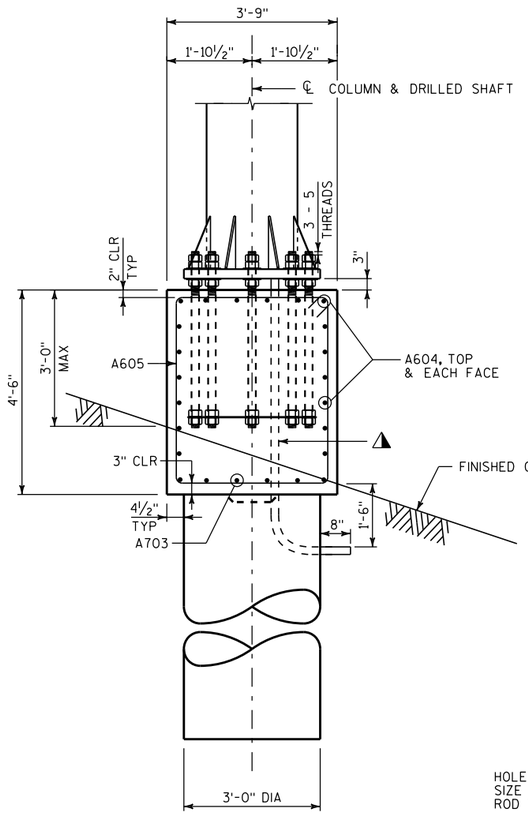
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STATE PROJECT NUMBER

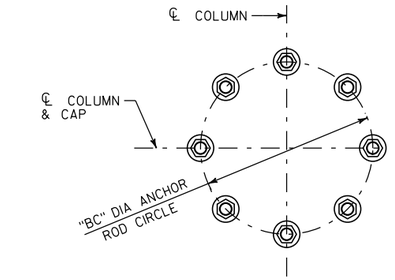
STANDARD



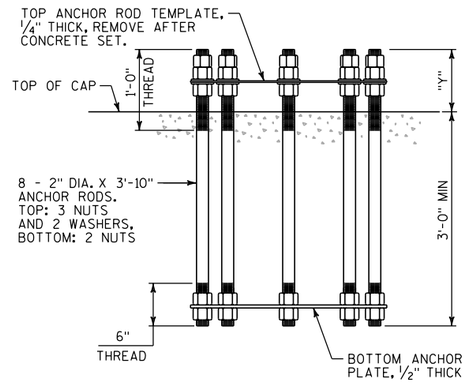
ELEVATION



SECTION A-A



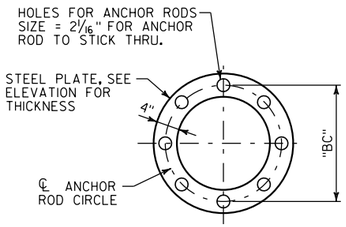
PLAN



ELEVATION

ANCHOR ROD ASSEMBLY DETAILS

SINGLE ASSEMBLY SHOWN
8 ANCHOR RODS REQ'D PER ASSEMBLY

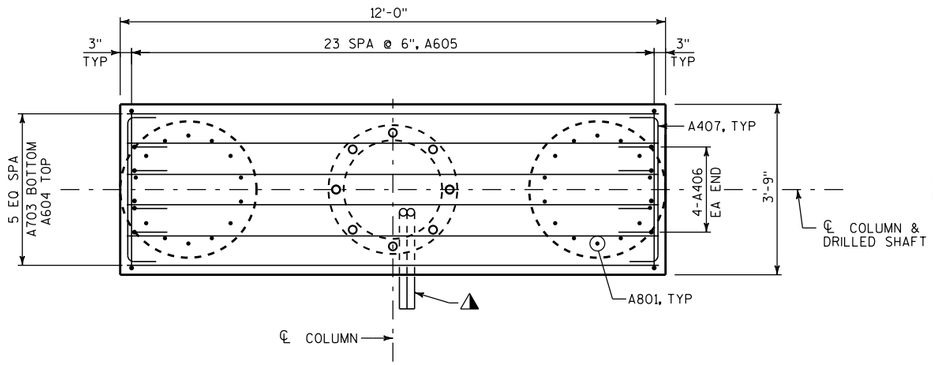


ANCHOR PLATE/TOP TEMPLATE

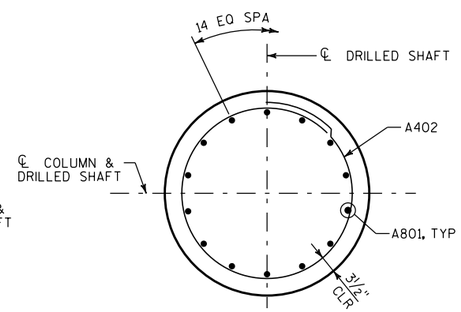
PLAN

ANCHOR PLATE DATA

STD DESIGN TRUSS	DIMENSIONS	
	"BC"	"Y"
1	2'-2"	10"
2	2'-6"	10½"



PLAN



SECTION B-B

NOTES

CENTER ANCHOR ROD ASSEMBLY AND MAKE SURE IT IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE FOOTING AS DETAILED ON PLAN. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHOR RODS.

LEGEND

⚠ 2 - 2" DIA NONMETALLIC CONDUITS, INSTALL ONLY WITH DMS. EXTEND CONDUITS AS SHOWN AND CAP OR SEAL EACH END WITH A SUITABLE REMOVABLE PLUG. PLACE CONDUITS UNDER COLUMN ADJACENT TO THE DMS. CONDUITS INCIDENTAL TO THE BID ITEM "ANCILLARY STRUCTURES CONCRETE MASONRY".

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STANDARD

JAN 2020

OSS 4-CHORD TRUSS CANTILEVER FOUNDATION DETAILS (1 OF 2)

SHEET V OF VIII

SCALE: 3.333333:1

8

8

STATE PROJECT NUMBER
STANDARD

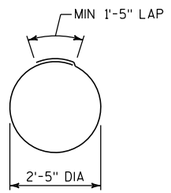
NOTE:
THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.

BILL OF BARS - STANDARD DESIGN TRUSS 1 OR 2

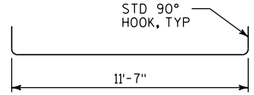
BAR MARK	COAT	NO REQ'D	LENGTH	BENT	LOCATION
A801		28	18'-2"		DRILLED FOOTING - VERTICAL
A402		34	9'-0"	X	DRILLED FOOTING - HORIZONTAL
A703	X	6	13'-7"	X	FOOTING - LONGITUDINAL - BOTTOM
A604	X	18	11'-8"		FOOTING - LONGITUDINAL - TOP & SIDES
A605	X	24	15'-10"	X	FOOTING - STIRRUP
A406	X	8	4'-7"	X	FOOTING - VERTICAL - EACH END
A407	X	8	3'-11"	X	FOOTING - HORIZONTAL - EACH END

ESTIMATED QUANTITIES - FOUNDATION

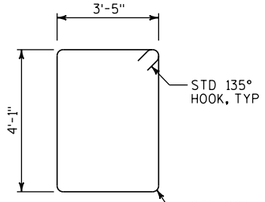
STANDARD DESIGN TRUSS	ANCILLARY STRUCTURES CONCRETE MASONRY (CY)	ANCILLARY STRUCTURES STEEL REINFORCEMENT HS (LBS)	ANCILLARY STRUCTURES STEEL REINFORCEMENT HS COATED (LBS)	ANCHOR ASSEMBLY 2-INCH (EACH)	FOUNDATION DRILLING (LF)
1, 2	16	1,570	1,110	1	32



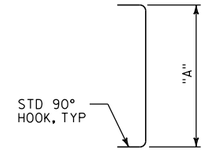
A402



A703



A605



A406, A407

BAR MARK	"A"
A406	3'-11½"
A407	3'-3½"

BAR BENDING DIAGRAMS

NOTE:
BAR DIMENSIONS ARE OUT TO OUT OF BAR. THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STANDARD

JAN 2020

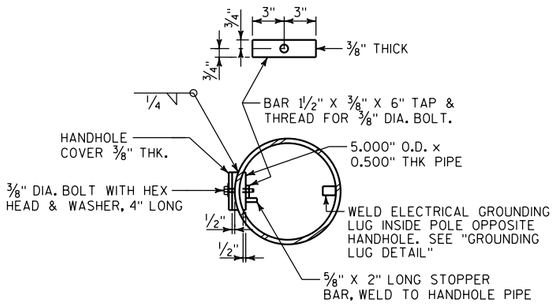
OSS 4-CHORD TRUSS CANTILEVER FOUNDATION DETAILS (2 OF 2)

SHEET VI OF VIII

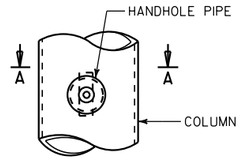
SCALE: 1:1

STATE PROJECT NUMBER

STANDARD



SECTION A-A

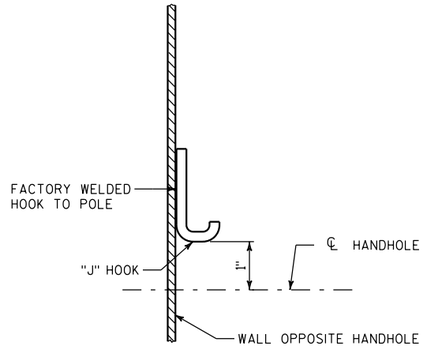


HANDHOLE DETAILS

HANDHOLE NOTES

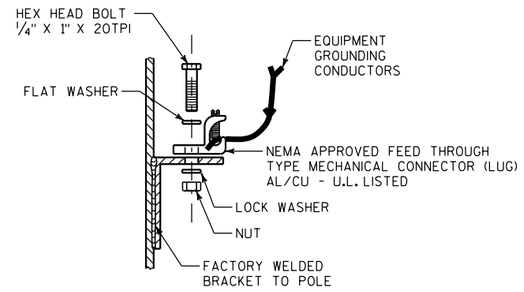
HANDHOLES SHALL BE LOCATED IN ONE COLUMN OF THE SIGN BRIDGE STRUCTURE IF ELECTRICALLY OPERATED DEVICES ARE INSTALLED ON/IN THE STRUCTURE. COLUMNS WITH HANDHOLES SHALL BE NEAR THE ELECTRICAL SERVICE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE ELECTRICAL SERVICE ENTRANCE WITH THE REGION TRAFFIC SECTION PRIOR TO FABRICATION OF THE SIGN BRIDGE COLUMNS AND MEMBERS. CONDUIT (AS REQ'D.) SHALL BE LOCATED, PLACED AND SIZED AS SHOWN ON THE ELECTRICAL PLAN DETAIL SHEETS.

UNLESS NOTED OTHERWISE, ALL HANDHOLE ELEMENTS TO BE GALVANIZED PER SECTION 641 OF THE WISDOT STANDARD SPECIFICATIONS.



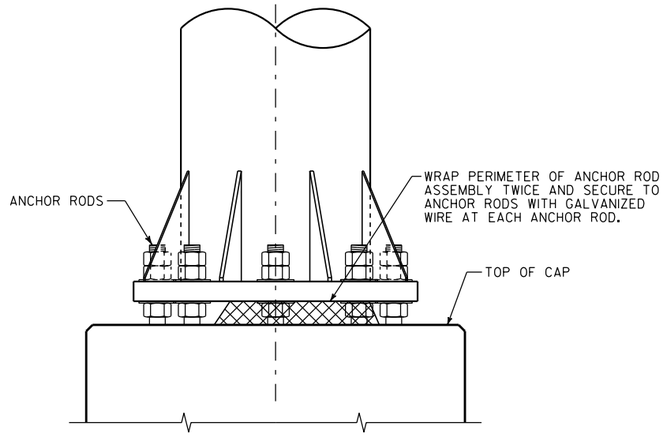
TYPICAL "J" HOOK LOCATION

THE "J" HOOK SHALL BE FACTORY WELDED TO THE INSIDE OF ALL COLUMNS CONTAINING ELECTRICAL WIRING. THE "J" HOOK SHALL BE ATTACHED ABOVE THE CENTERLINE OF THE UPPER HANDHOLE AND MOUNTED DIRECTLY OPPOSITE THE HANDHOLE AS SHOWN IN THE DRAWING.



GROUNDING LUG DETAIL

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



RODENT SCREEN

(ONLY REQ'D. WHEN ELECTRICAL DEVICES ARE INSTALLED)

8

8

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STANDARD

JAN 2020

OSS 4-CHORD TRUSS CANTILEVER ELECTRICAL DETAILS

SHEET VIII OF VIII

SCALE: 4:1

STATE PROJECT NUMBER
1206-06-79

TOTAL ESTIMATED QUANTITES

BID ITEM NO.	BID ITEMS	UNIT	S-13-546	S-13-547	S-13-548	S-13-5XX	S-13-549	S-13-550	S-13-5XX	S-13-5XX	S-13-551	S-13-552	S-13-553
502.3210	PIGMENTED SURFACE SEALER	SY	--	--	--	--	--	--	--	--	--	--	--
531.00XX	FOUNDATION DRILLING 36-INCH	LF	--	--	--	--	--	--	--	--	--	--	--
531.1000	ANCILLARY STRUCTURES CONCRETE MASONRY	CY	--	--	--	--	--	--	--	--	--	--	--
531.2400	ANCILLARY STRUCTURES STEEL REINFORCEMENT HS	LB	--	--	--	--	--	--	--	--	--	--	--
531.2600	ANCILLARY STRUCTURES STEEL REINFORCEMENT HS COATED	LB	--	--	--	--	--	--	--	--	--	--	--
531.6030	ANCHOR ASSEMBLIES 1 1/2-INCH	EA	--	--	--	--	--	--	--	--	--	--	--
531.6040	ANCHOR ASSEMBLIES 1 3/4-INCH	EA	--	--	--	--	--	--	--	--	--	--	--
532.0400.XXX	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN S-13-546	LF	--	--	--	--	--	--	--	--	--	--	--
532.0400.XXX	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN S-13-547	LF	--	--	--	--	--	--	--	--	--	--	--
532.0400.XXX	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN S-13-548	LF	--	--	--	--	--	--	--	--	--	--	--
532.0400.XXX	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN S-13-5XX	LF	--	--	--	--	--	--	--	--	--	--	--
532.0400.XXX	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN S-13-549	LF	--	--	--	--	--	--	--	--	--	--	--
532.0400.XXX	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN S-13-550	LF	--	--	--	--	--	--	--	--	--	--	--
532.0400.XXX	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN S-13-5XX	LF	--	--	--	--	--	--	--	--	--	--	--
532.0400.XXX	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN S-13-5XX	LF	--	--	--	--	--	--	--	--	--	--	--
532.0400.XXX	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN S-13-551	LF	--	--	--	--	--	--	--	--	--	--	--
532.0400.XXX	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN S-13-552	LF	--	--	--	--	--	--	--	--	--	--	--
532.0400.XXX	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN S-13-553	LF	--	--	--	--	--	--	--	--	--	--	--
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	--	--	--	--	--	--	--	--	--	--	--
653.XXXX	JUNCTION BOXES (SIZE)	EA	--	--	--	--	--	--	--	--	--	--	--

TRAFFIC VOLUME

A.D.T. (2036) = 139,650-164,190
R.D.S. = 60 MPH

FOUNDATION DATA

SIGN STRUCTURE FOUNDATIONS ARE SUPPORTED ON DRILLED SHAFTS THAT HAVE BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 24° (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 750 PSF (COHESIVE SOILS) AND A UNIT WEIGHT OF 125 PCF. THE GROUND WATER TABLE IS ASSUMED TO BE AT A DEPTH OF 10'-0" BELOW THE GROUND SURFACE. THE REGION GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT THE SUBSURFACE SOILS DURING DRILLING OF THE SHAFT HOLE TO CONFIRM THESE PROPERTIES PRIOR TO PLACEMENT OF THE DRILLED SHAFT CONCRETE.

MATERIAL PROPERTIES

CONCRETE MASONRY ---------- f'c = 3,500 psi

HIGH STRENGTH STEEL REINFORCEMENT, GRADE 60 ---------- fy = 60,000 psi

STRUCTURAL ANGLES, PLATE AND BARS - ASTM A709 GRADE 36 ---------- fy = 36,000 psi

CHORDS & COLUMN PIPE - ASTM A500 GRADE C ---------- fy = 46,000 psi

HIGH STRENGTH BOLTS - A325 ---------- fy = 92,000 psi

ANCHOR RODS - ASTM F1554 GRADE 55 ---------- fy = 55,000 psi

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

DESIGN DATA

SIGN STR	ACTUAL SIGN AREA TYPE 1	ACTUAL SIGN AREA DMS	ACTUAL SIGN HEIGHT TYPE 1	ACTUAL SIGN HEIGHT DMS	FND TYPE
S-13-546	XXX SF	XXX SF	X'-X"	X'-X"	--
S-13-547	XXX SF	XXX SF	X'-X"	X'-X"	--
S-13-548	XXX SF	XXX SF	X'-X"	X'-X"	--
S-13-5XX	XXX SF	XXX SF	X'-X"	X'-X"	--
S-13-549	XXX SF	XXX SF	X'-X"	X'-X"	--
S-13-550	XXX SF	XXX SF	X'-X"	X'-X"	--
S-13-5XX	XXX SF	XXX SF	X'-X"	X'-X"	--
S-13-5XX	XXX SF	XXX SF	X'-X"	X'-X"	--
S-13-551	XXX SF	XXX SF	X'-X"	X'-X"	--
S-13-552	XXX SF	XXX SF	X'-X"	X'-X"	--
S-13-553	XXX SF	XXX SF	X'-X"	X'-X"	--
DESIGN SIGN	XXX SF	XXX SF	X'-X"	X'-X"	

ALL STRUCTURES IN THIS GROUP OF STRUCTURES ARE DESIGNED FOR THE DESIGN SIGN LOADING

DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL

FOUNDATION DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

DEAD LOAD - WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD - 3 PSF TO ONE FACE OF SIGN & AROUND SURFACE OF MEMBERS.
WIND PRESSURE - 120 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (1700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1	1.0	0.0
LOAD CASE 2	0.0	1.0
LOAD CASE 3	0.75	0.75

LOAD COMBINATIONS

STRENGTH I: 1.25 DC + 1.6 LL
EXTREME I (MAX DC): 1.1 DC + 1.0 W + 1.0 ICE
EXTERME I (MIN DC): 0.9 DC + 1.0 W
SERVICE I: 1.0 DC + 1.0 W
FATIGUE I: 1.0 NWG (NATURAL WIND GUST VIBRATION)
1.0 TrG (TRUCK INDUCED GUST VIBRATION)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DANE COUNTY ZONE, NAD 83 (2011). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2012).

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN S-13-XXX" FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

IF REQUIRED, CATWALKS SHALL BE INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN S-13-XXX" FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS SHALL BE 1/4 THE LENGTH OF THE BRIDGE SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, AND SHALL BE CENTERED ON THE BRIDGE. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES AND STORM SEWER IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AND STORM SEWER AS MAY BE NECESSARY TO AVOID DAMAGE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON SHOP DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "FOUNDATION DRILLING".

LIST OF DRAWINGS

1. GENERAL NOTES & DESIGN DATA
2. GENERAL LAYOUT S-13-546
3. GENERAL LAYOUT S-13-547
4. GENERAL LAYOUT S-13-548
5. GENERAL LAYOUT S-13-5XX
6. GENERAL LAYOUT S-13-549
7. GENERAL LAYOUT S-13-550
8. GENERAL LAYOUT S-13-5XX
9. GENERAL LAYOUT S-13-5XX
10. GENERAL LAYOUT S-13-551
11. GENERAL LAYOUT S-13-552
12. GENERAL LAYOUT S-13-553
13. OSS 4-CHORD TRUSS FULL SPAN FOUNDATION MODIFICATION DETAILS

LIST OF OSS STANDARD DESIGN DRAWINGS

14. I. OSS 4-CHORD TRUSS FULL SPAN TRUSS DETAILS
15. II. OSS 4-CHORD TRUSS FULL SPAN COLUMN DETAILS
16. III. OSS 4-CHORD TRUSS FULL SPAN CONNECTION DETAILS (1 OF 2)
17. IV. OSS 4-CHORD TRUSS FULL SPAN CONNECTION DETAILS (2 OF 2)
18. V. OSS 4-CHORD TRUSS FULL SPAN FOUNDATION DETAILS (1 OF 2)
19. VI. OSS 4 -CHORD TRUSS FULL SPAN FOUNDATION DETAILS (2 OF 2)
20. VII. OSS 4-CHORD TRUSS CANTILEVER CATWALK DETAILS
21. VIII. OSS 4-CHORD TRUSS CANTILEVER ELECTRICAL DETAILS

THE DESIGNER CERTIFIES THAT THE SIGN STRUCTURE GEOMETRY AND STANDARD FOUNDATION CHOSEN ARE CONSISTENT WITH THE GUIDANCE PROVIDED IN THE CURRENT WISCONSIN BRIDGE MANUAL CHAPTER 39.

1078 PLANS

STRUCTURE DESIGN CONTACTS

BUREAU OF STRUCTURES:
SUPERVISOR:
AARON BONK (608) 261-0261

CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

HNTB (414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

OSS 4-CHORD TRUSS FULL SPAN PLANS

FULL SPAN SIGN STRUCTRES
USH 12/18 EB&WB

COUNTY	CITY OR TOWN
DANE	MADISON

DESIGN SPEC.
AASHTO LRFDLTS-1 W/INTERIMS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.

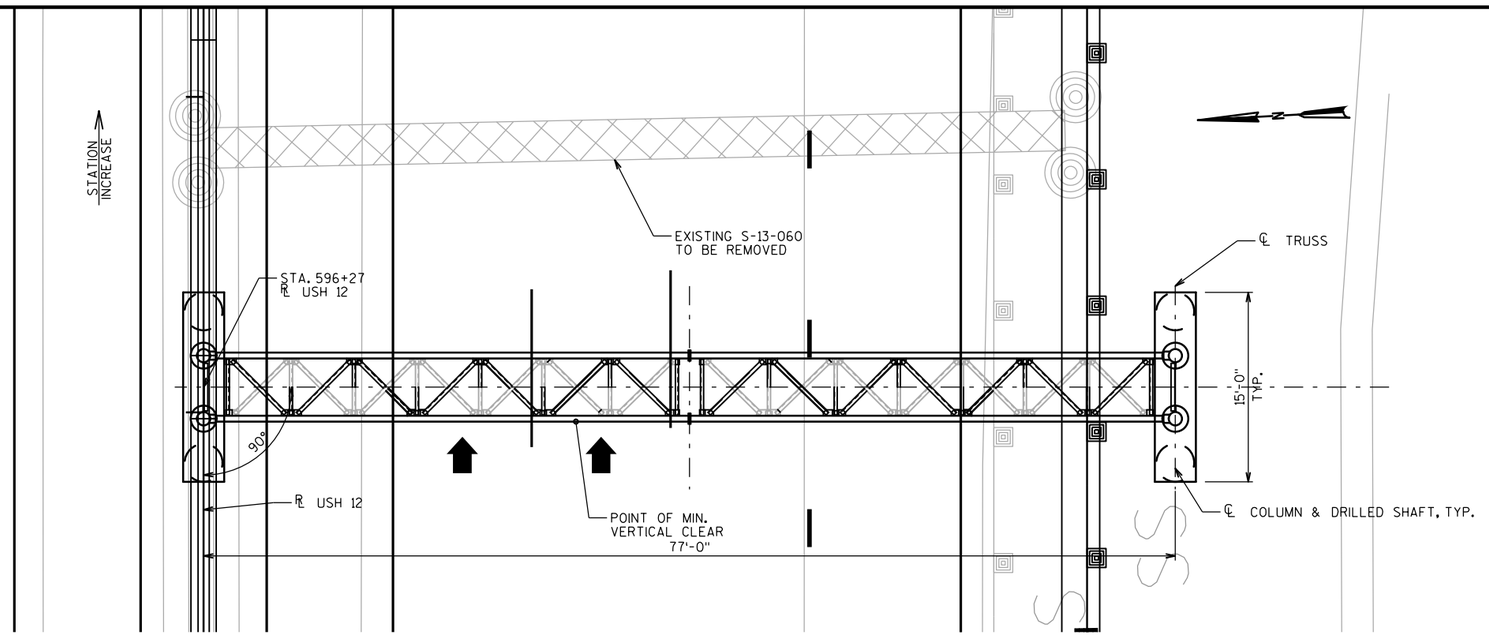
GENERAL NOTES, DESIGN DATA & QUANTITIES

SHEET 1 OF 21

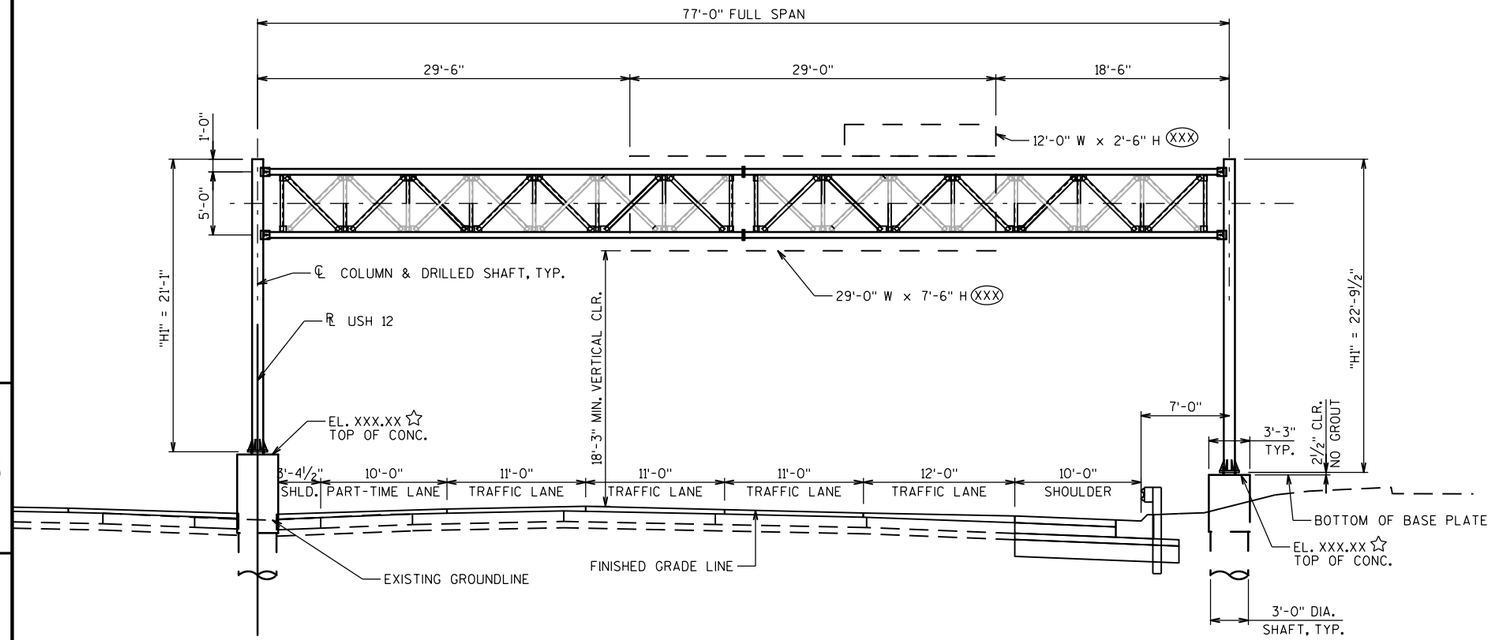
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STATE PROJECT NUMBER
1206-06-79

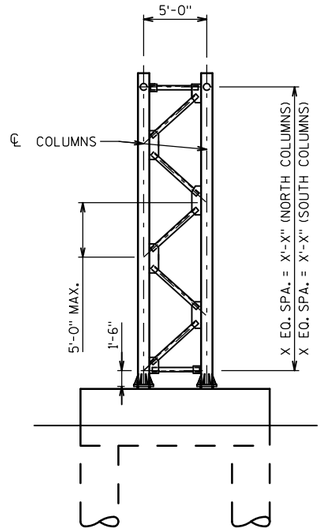


PLAN



ELEVATION

STA. 596+27
(LOOKING UPSTATION AT FRONT OF SIGN)



END VIEW

LOOKING NORTH

NOTE

POINT OF MIN VERTICAL CLEARANCE
STA 597+27.00, 26.00'RT.
EL XXX.XX

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ TRUSS

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

8

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1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-546

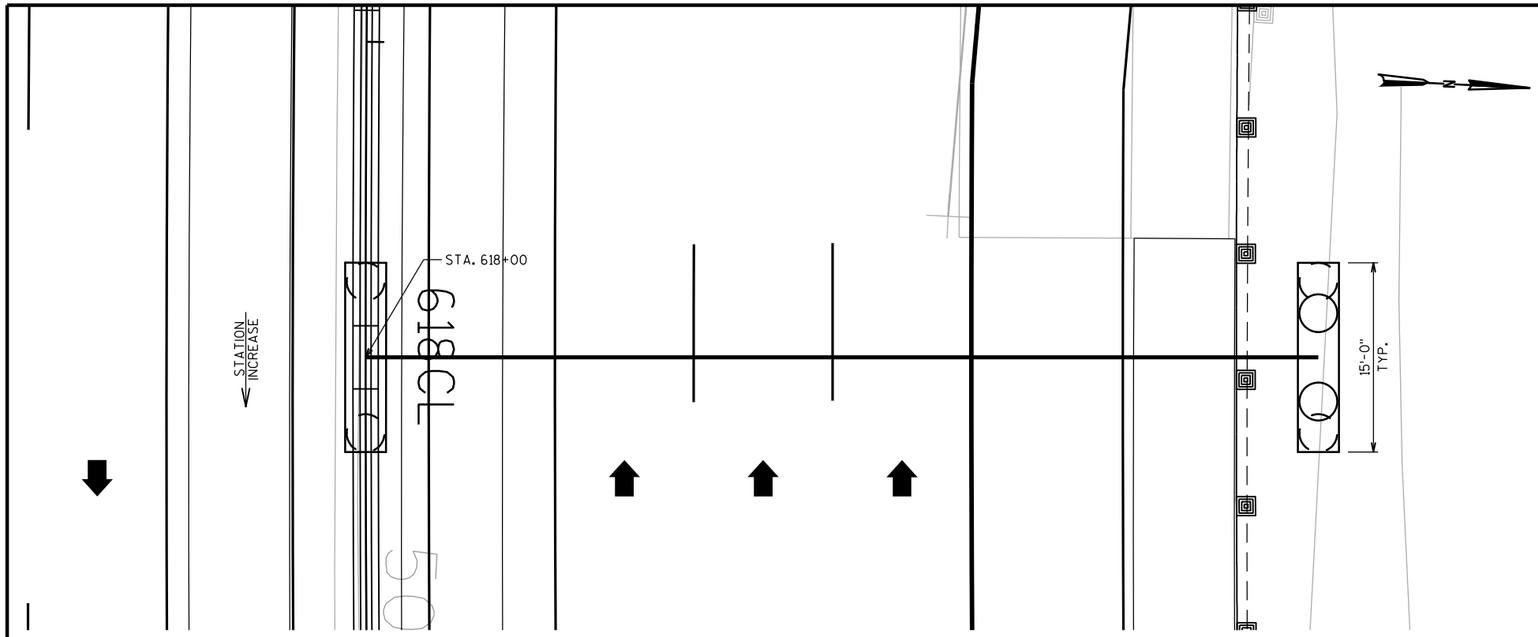
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GENERAL LAYOUT
S-13-546

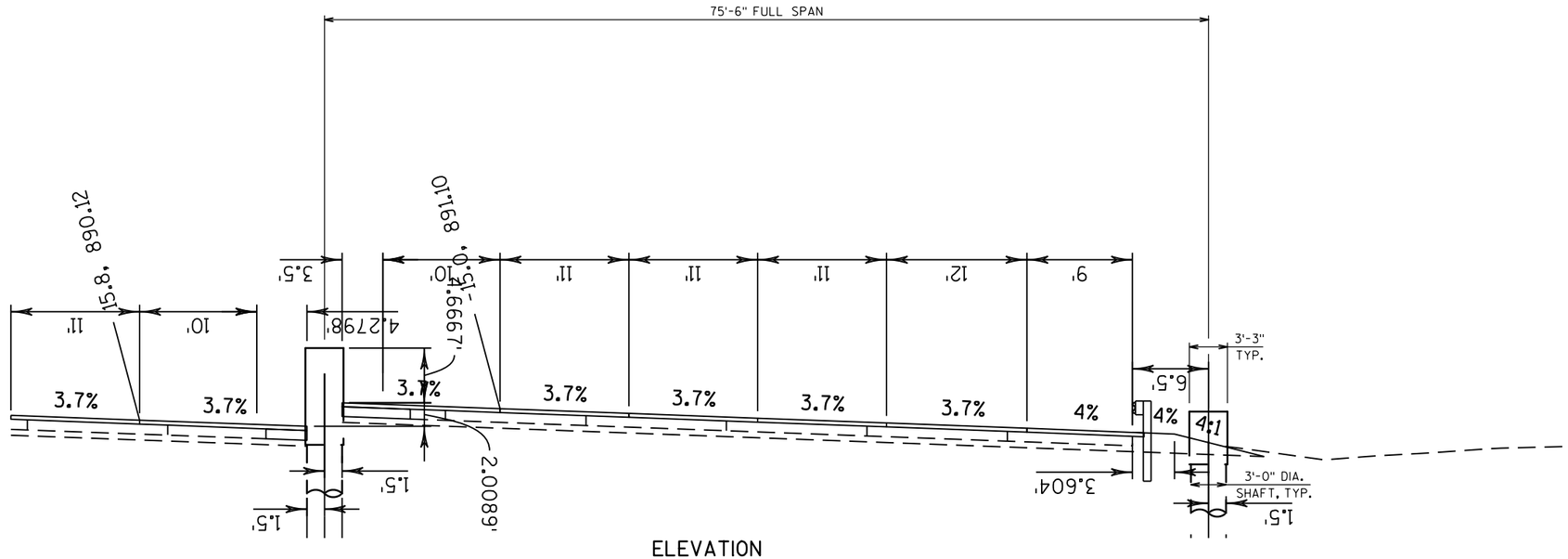
SHEET 2 OF 21

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PLOTTED BY : ejelinek
PLOT NAME : $FILE$
PLOT SCALE : 12:1

STATE PROJECT NUMBER
1206-06-79



PLAN



ELEVATION

8

8

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

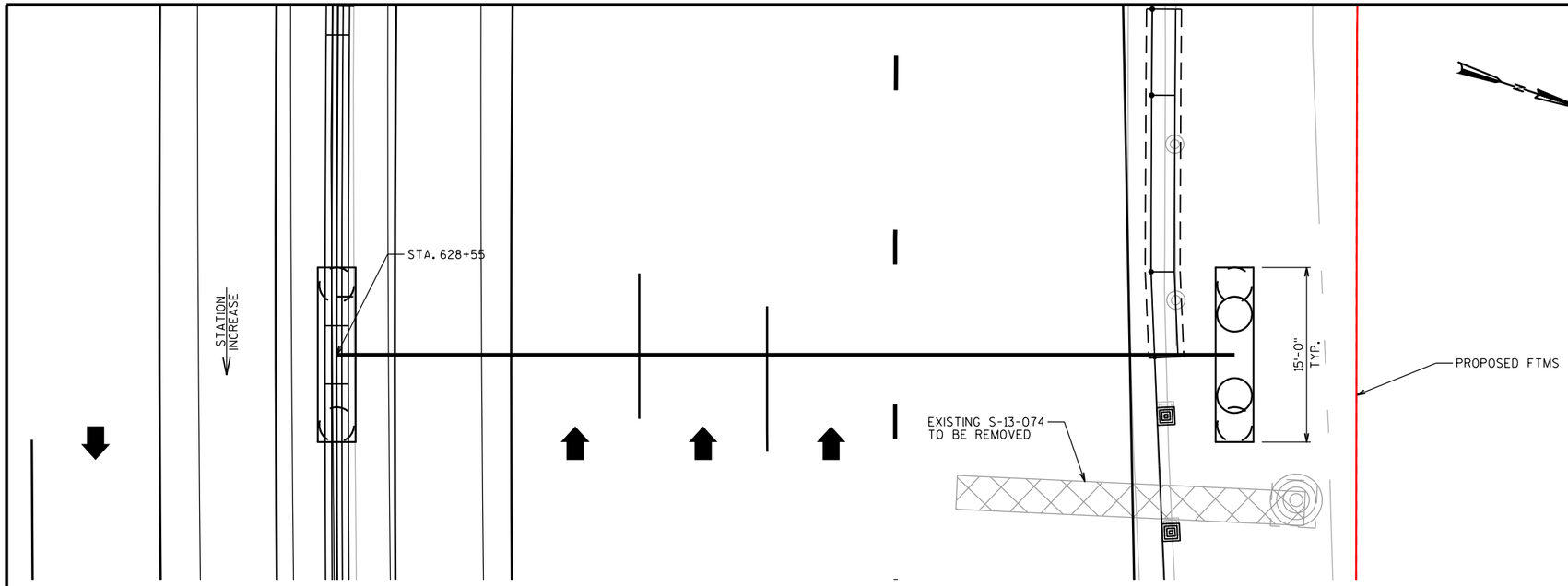
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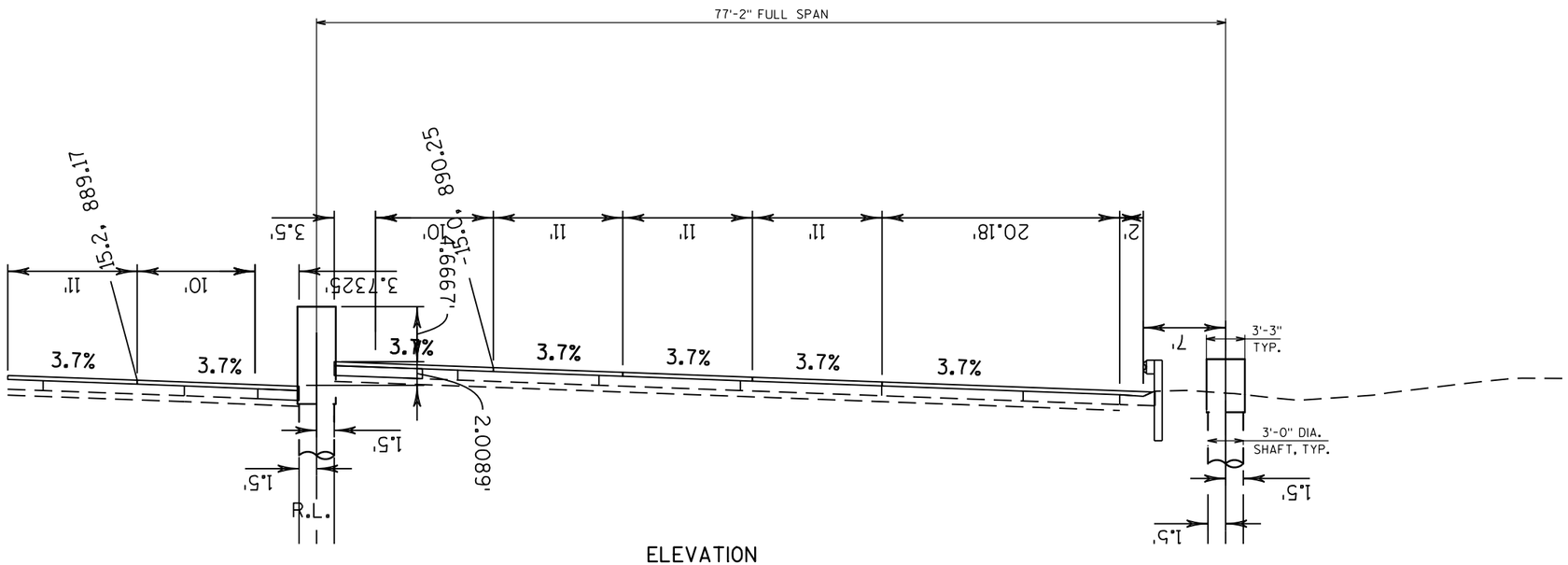
GENERAL LAYOUT
S-13-547

SHEET 3 OF 21

STATE PROJECT NUMBER
1206-06-79



PLAN



ELEVATION

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1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

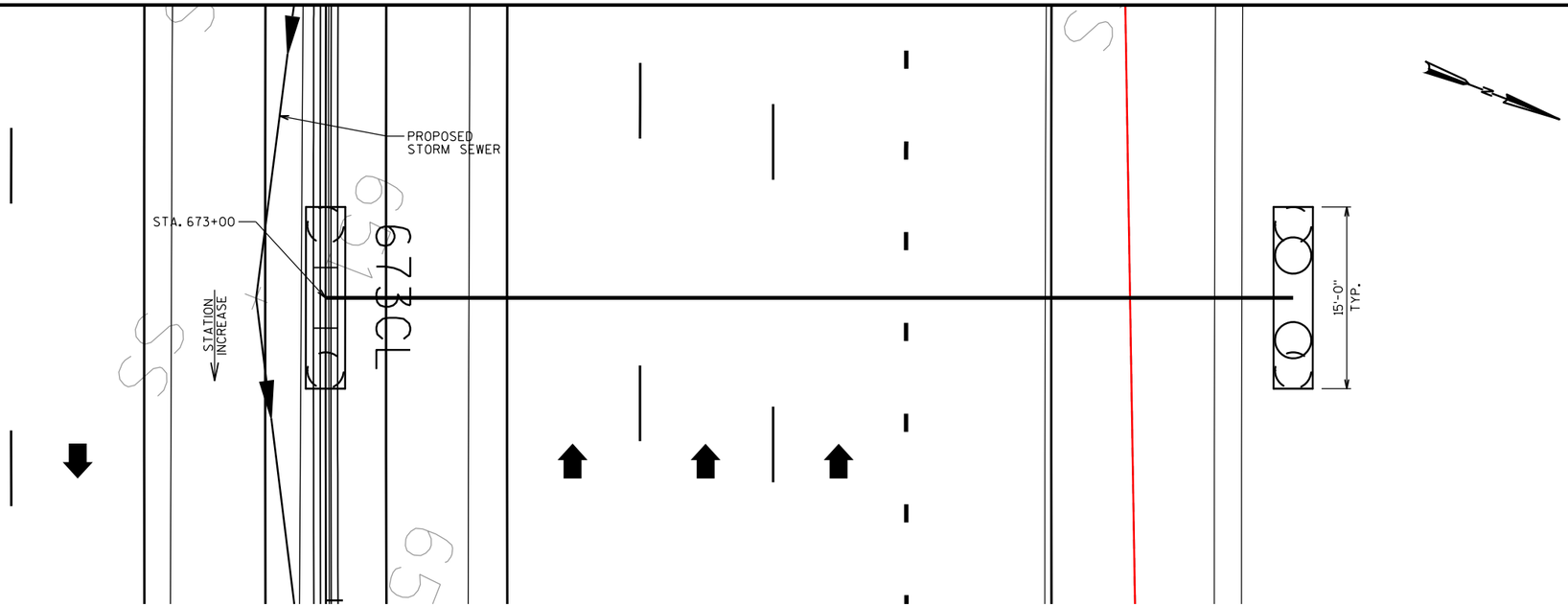
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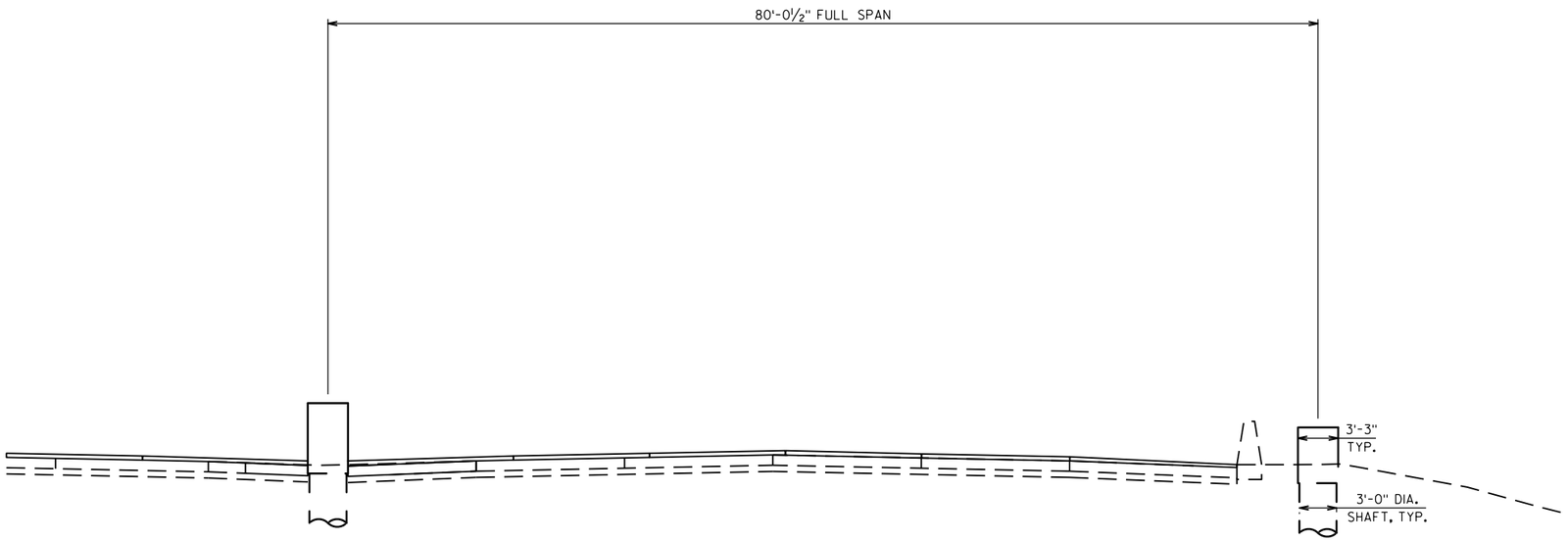
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S-13-548

SHEET 4 OF 21

STATE PROJECT NUMBER
1206-06-79



PLAN



ELEVATION

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1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

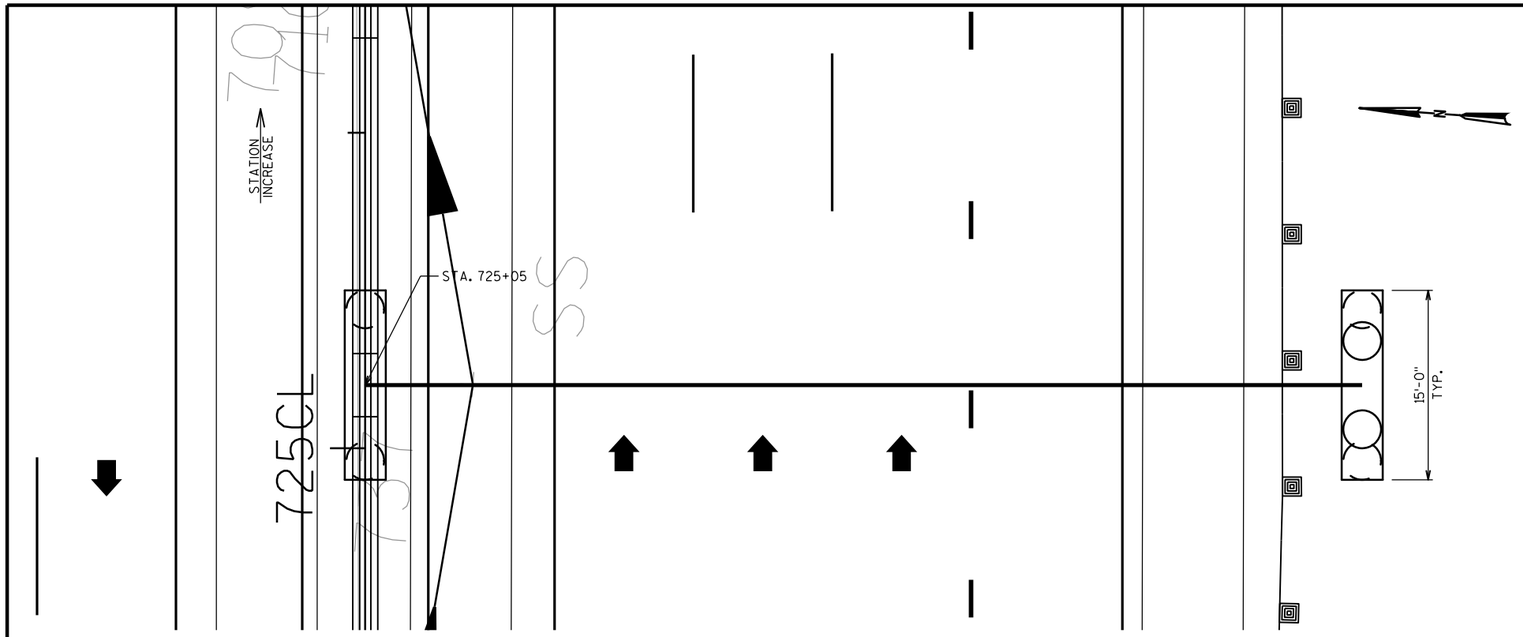
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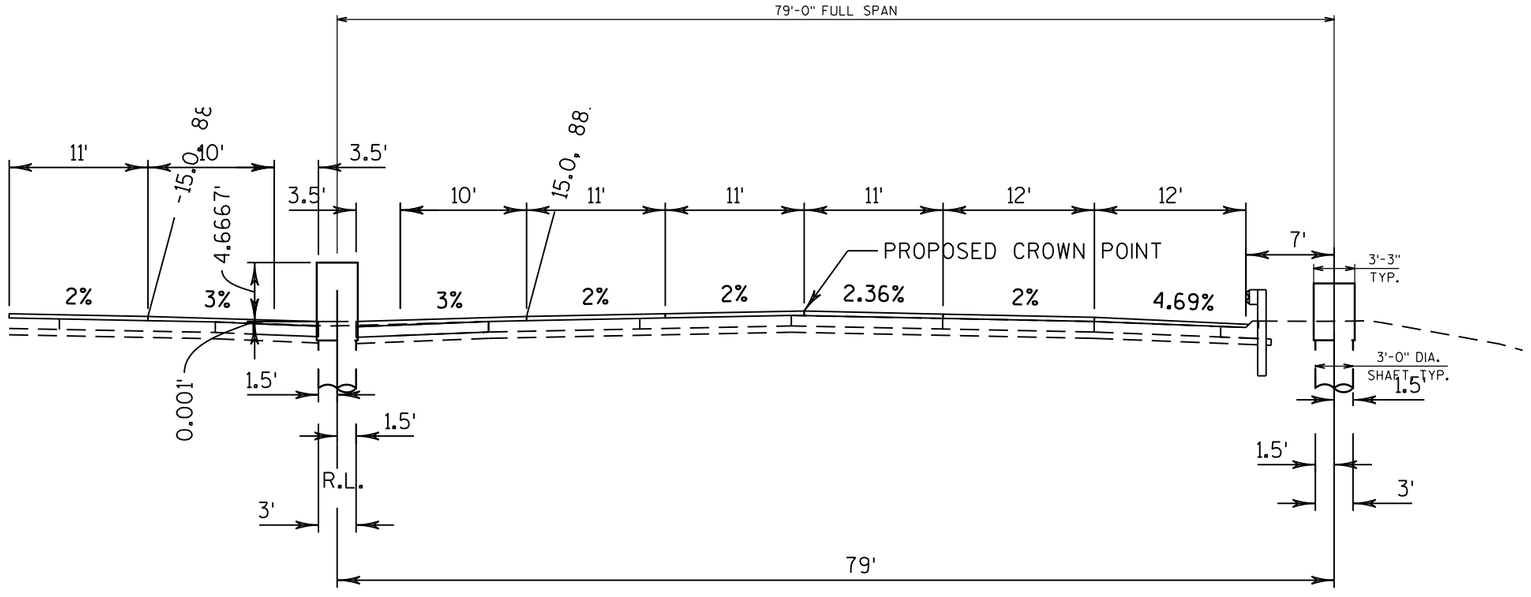
GENERAL LAYOUT
S-13-5XX

SHEET 5 OF 21

STATE PROJECT NUMBER
1206-06-79



PLAN



ELEVATION

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1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-549

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-549

SHEET 6 OF 21

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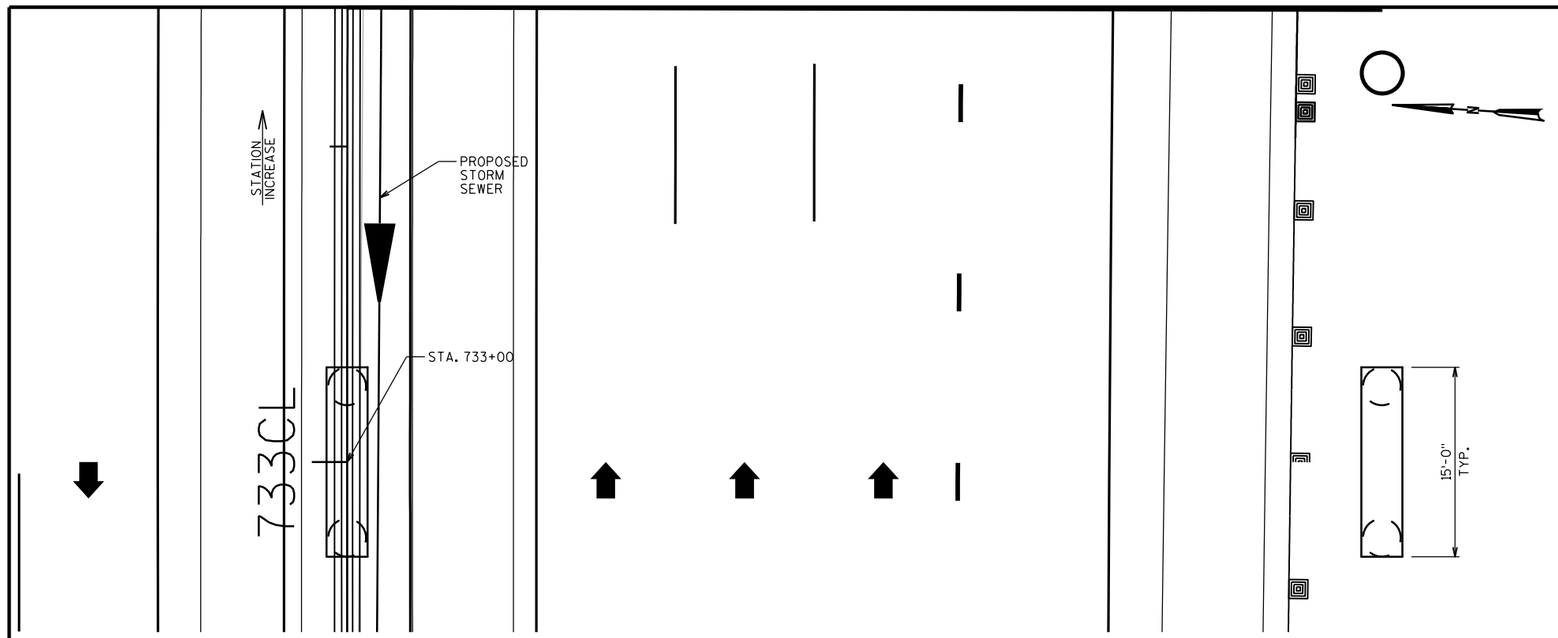
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PLOTTED BY : ejelinek

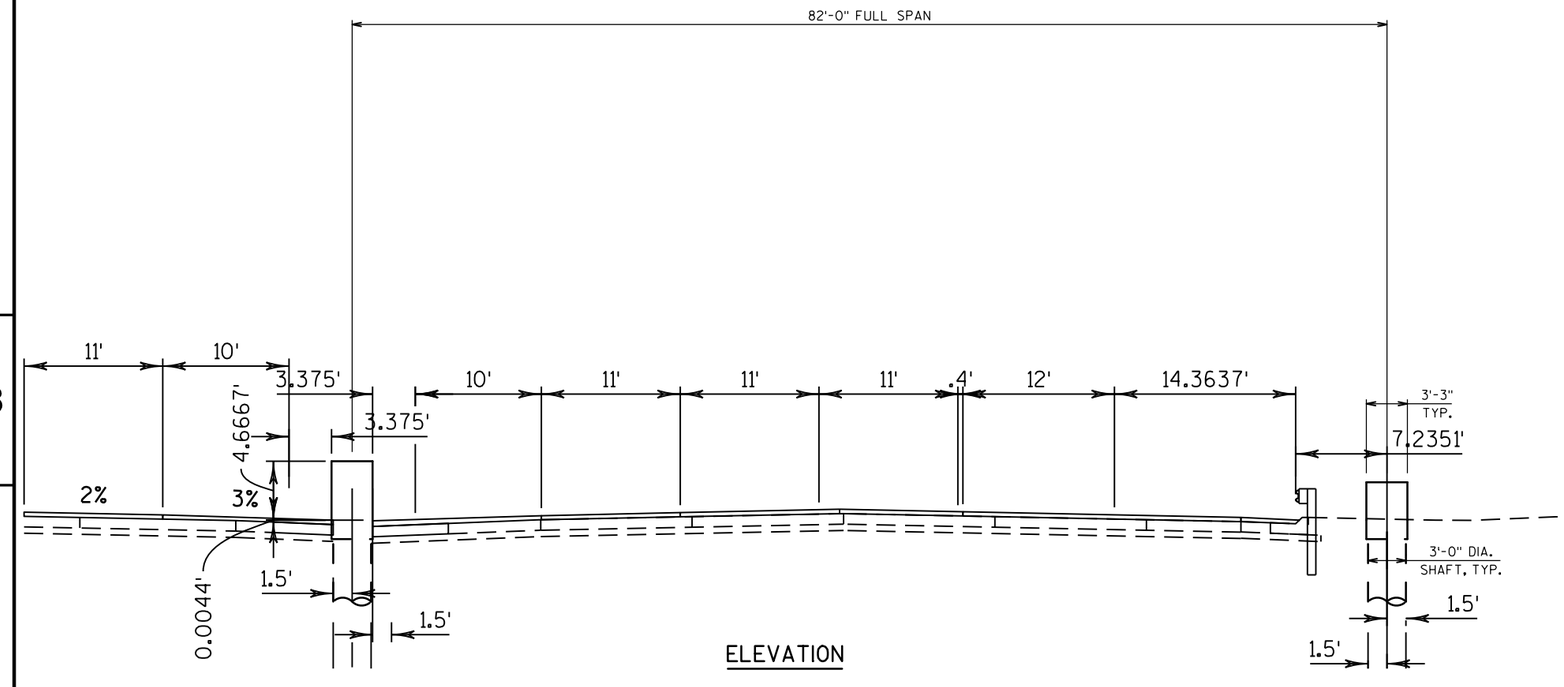
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STATE PROJECT NUMBER
1206-06-79



PLAN



ELEVATION

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1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-550

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-550

SHEET 7 OF 21

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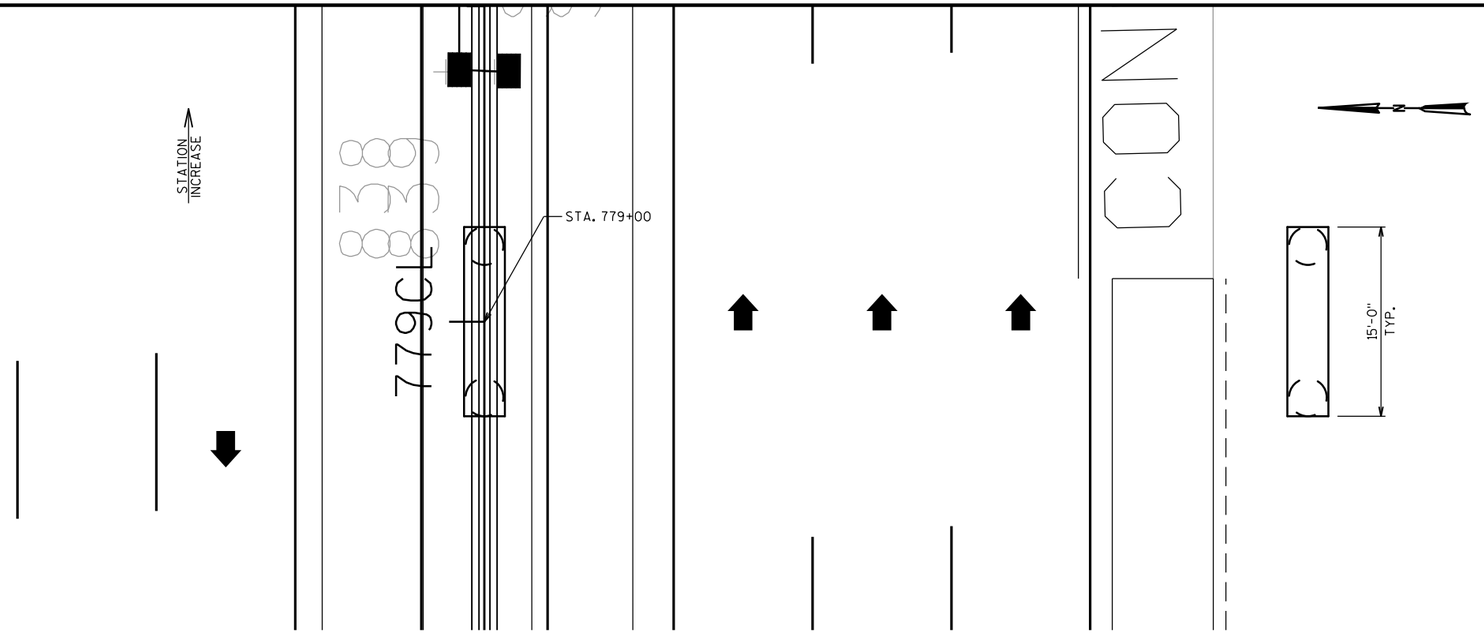
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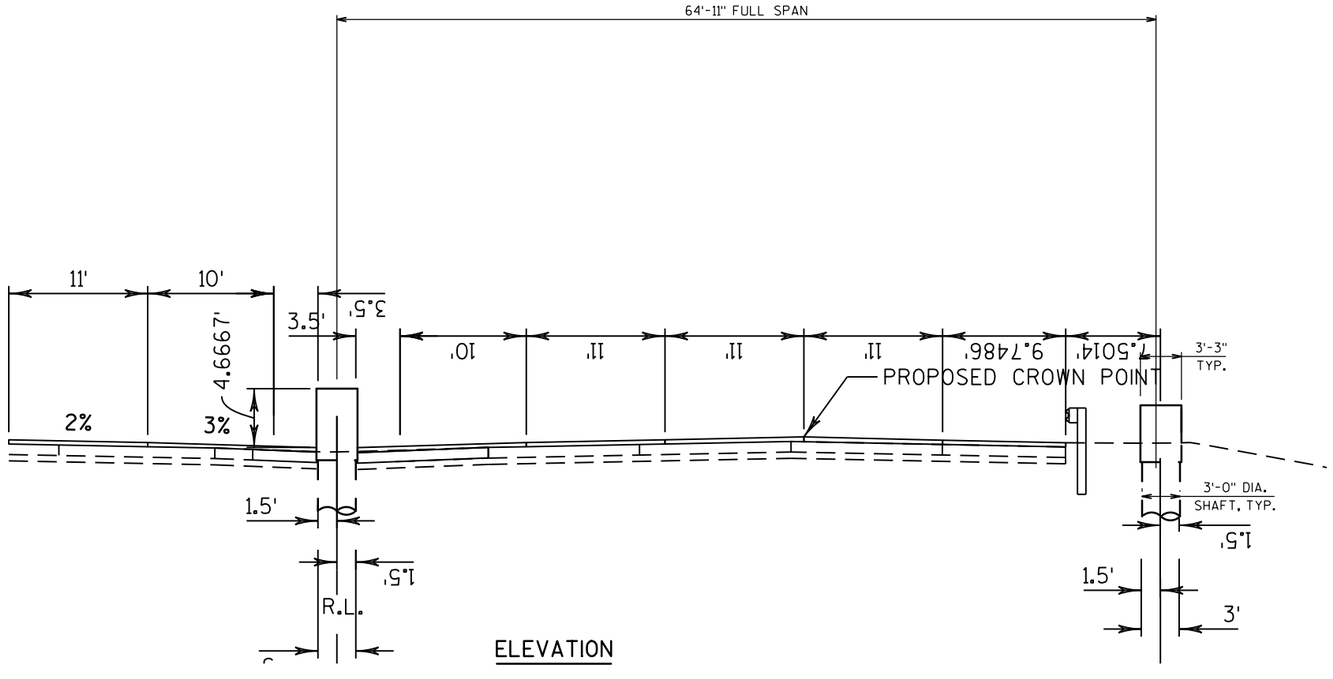
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STATE PROJECT NUMBER

1206-06-79



PLAN



ELEVATION

8

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1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

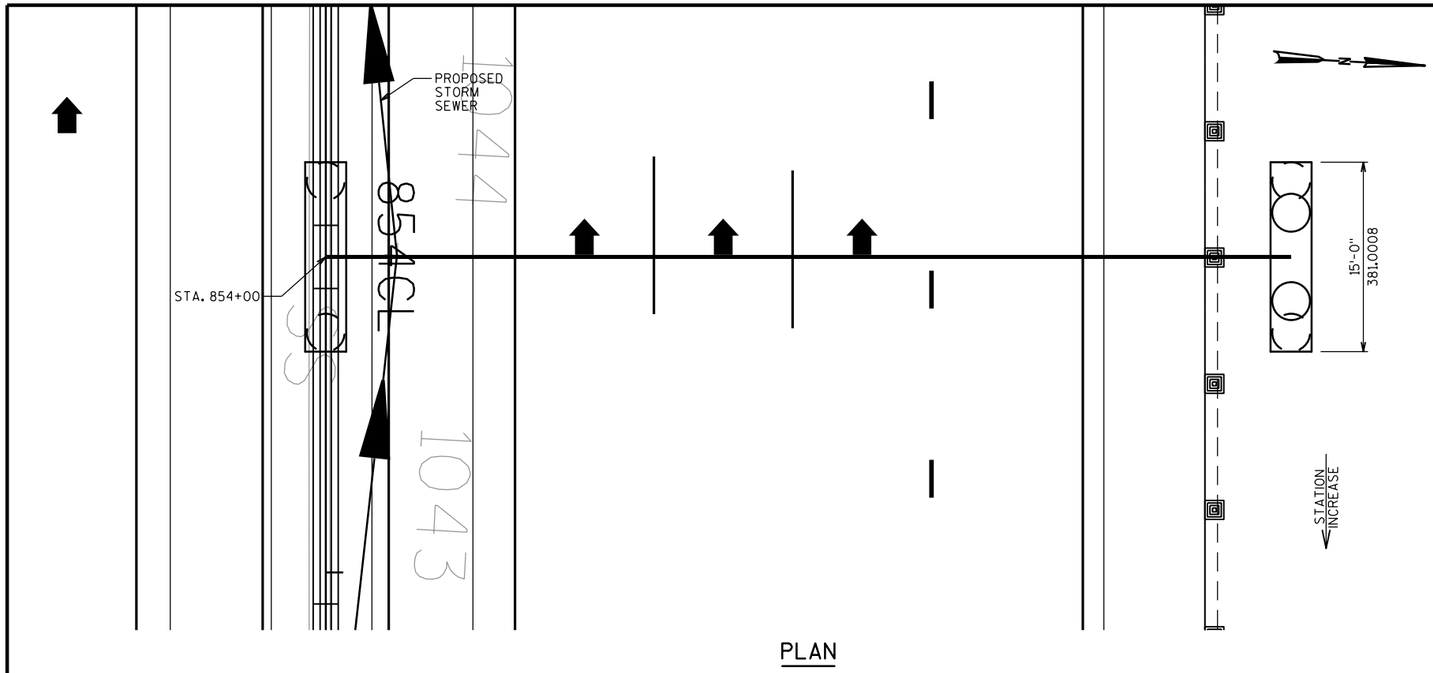
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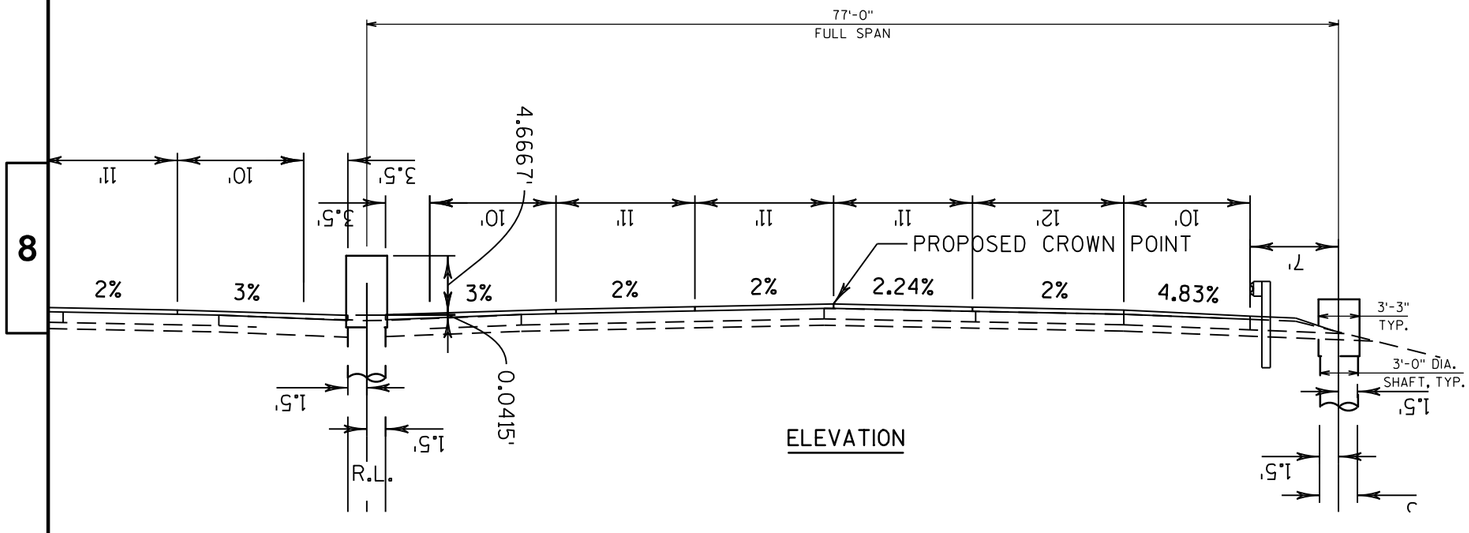
GENERAL LAYOUT
S-13-5XX

SHEET 8 OF 21

STATE PROJECT NUMBER
1206-06-79



PLAN



ELEVATION

8

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1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

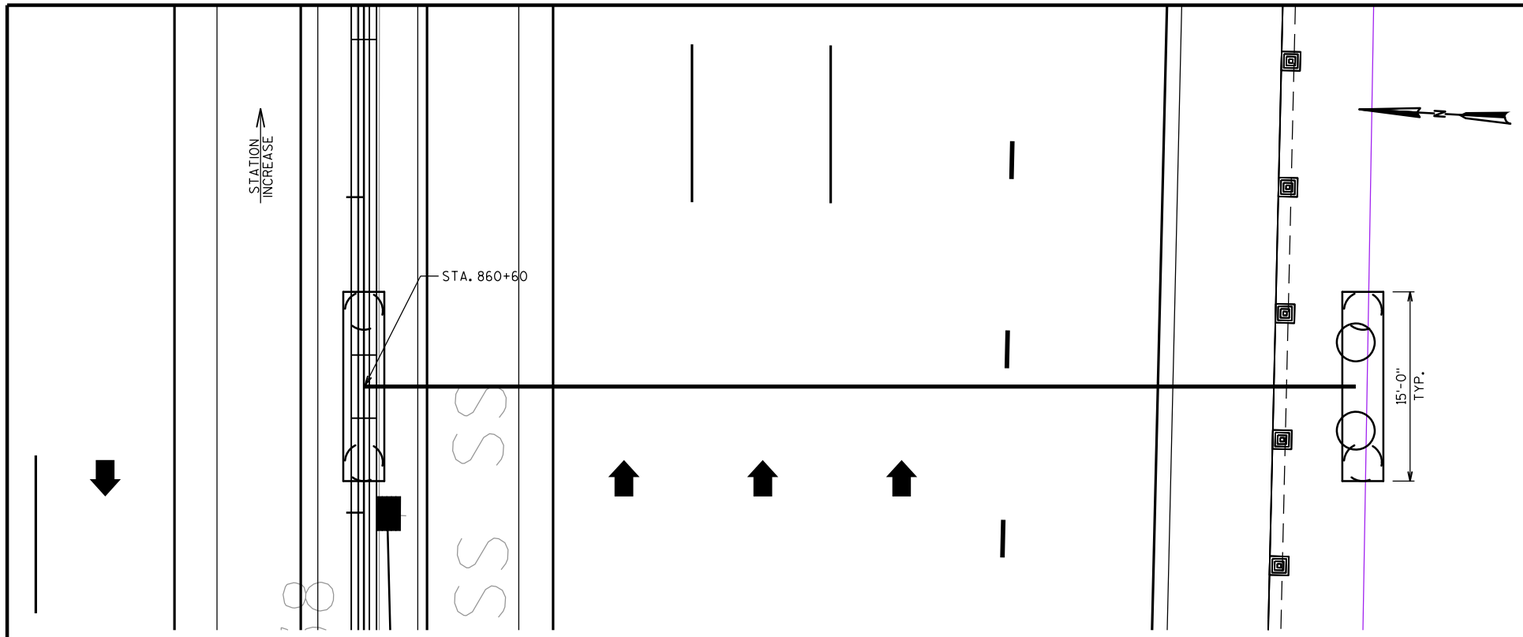
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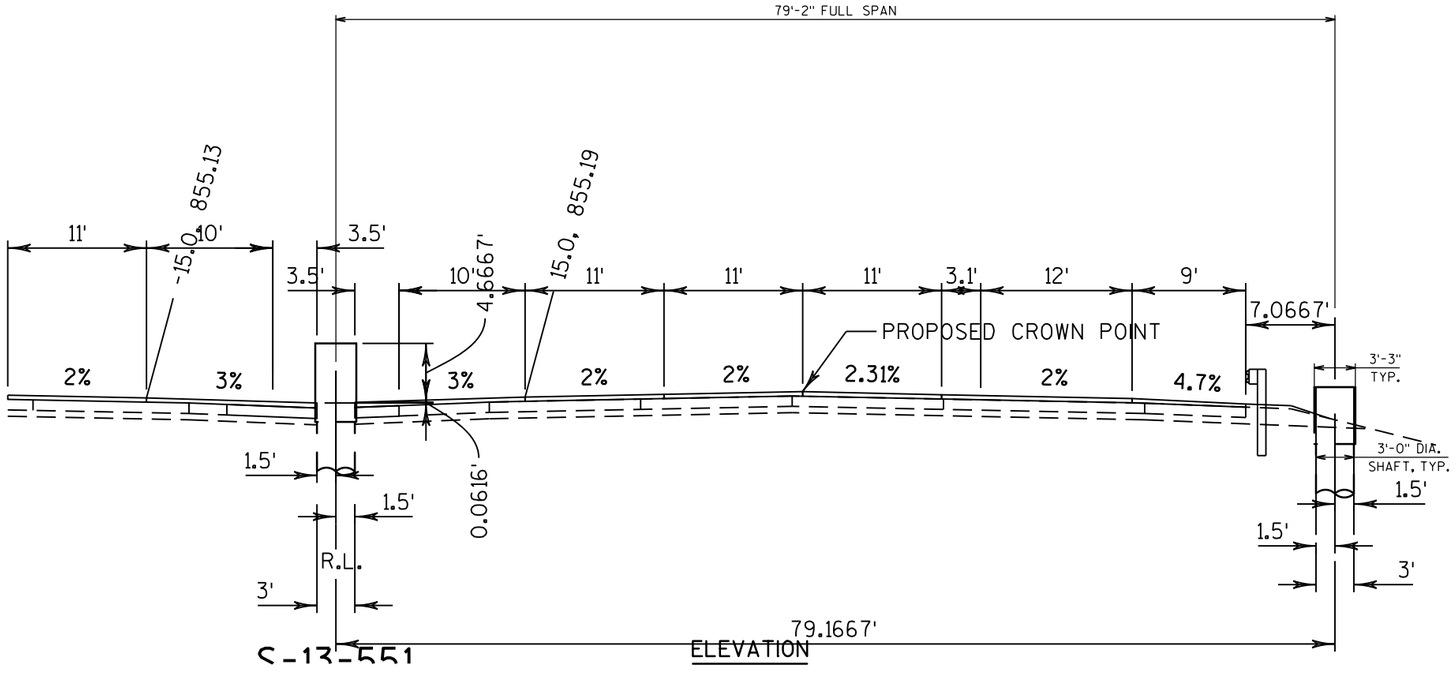
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S-13-5XX

SHEET 9 OF 21

STATE PROJECT NUMBER
1206-06-79



PLAN



ELEVATION

8

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1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-551

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-551

SHEET 10 OF 21

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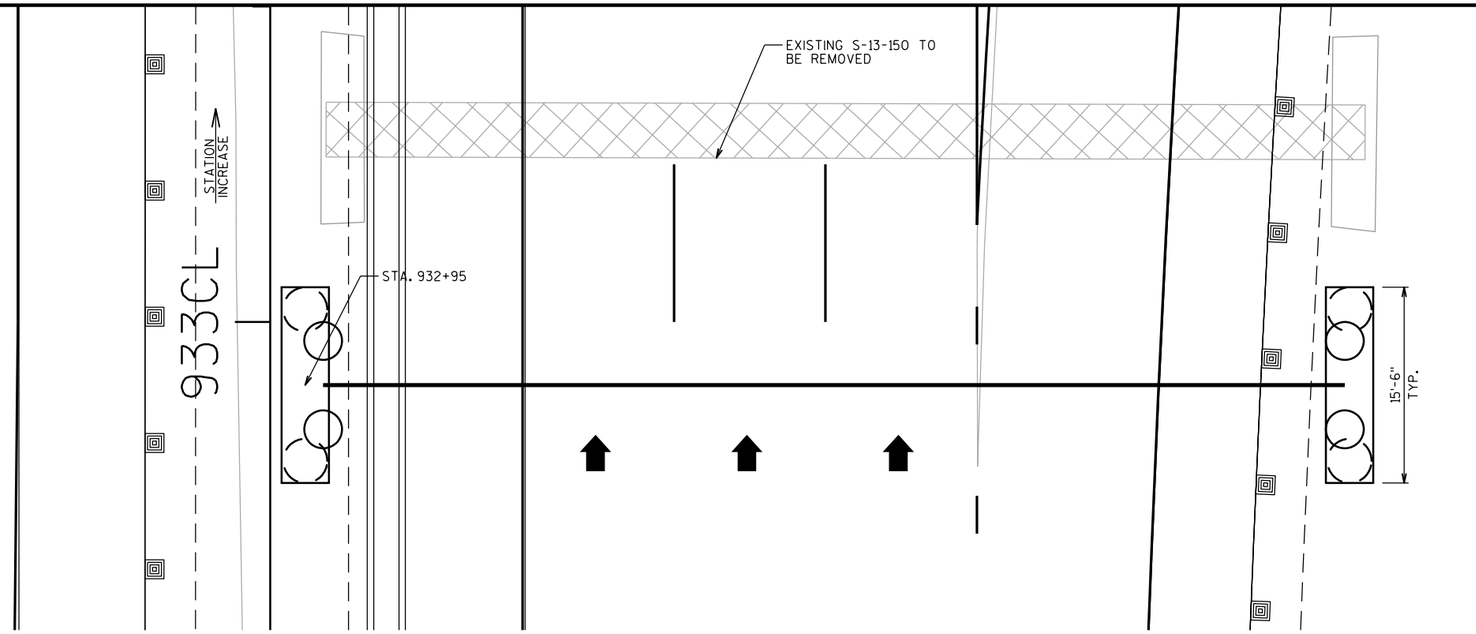
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PLOT BY : ejelinek

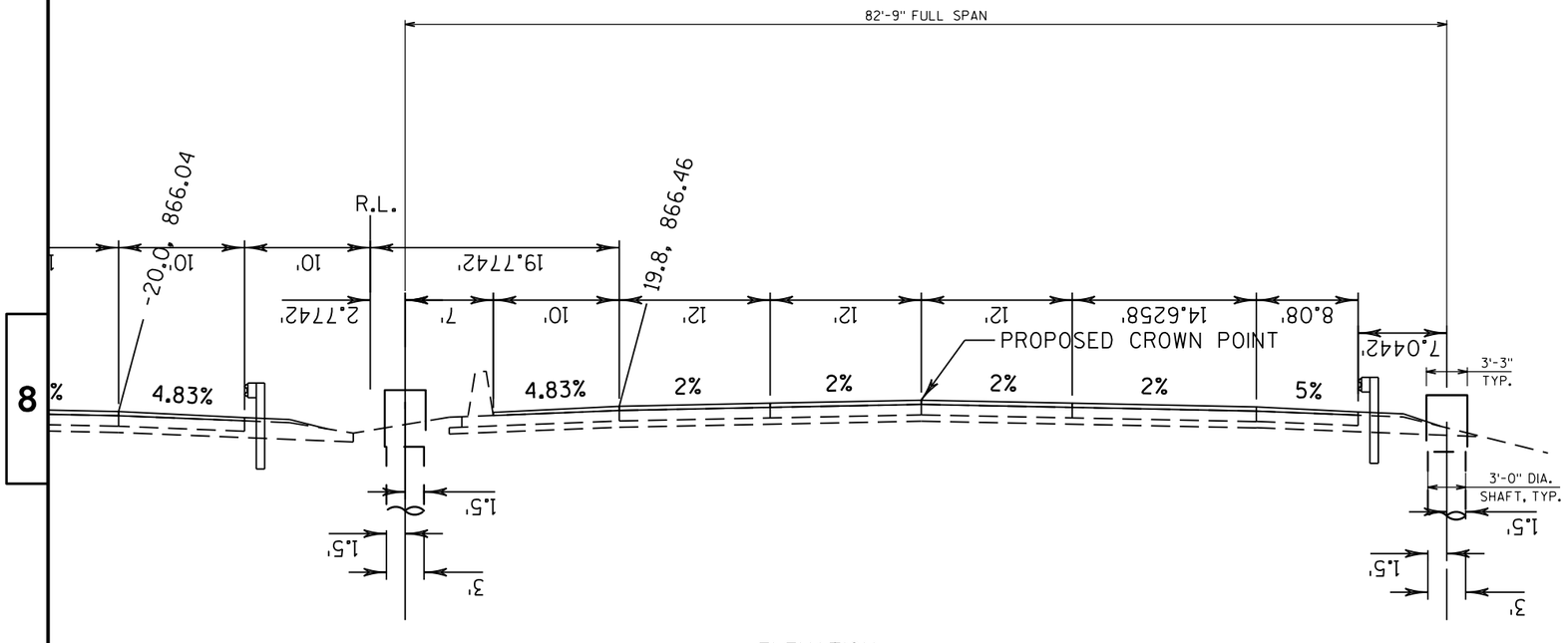
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PLOT SCALE : 12:1

STATE PROJECT NUMBER
1206-06-79



PLAN



ELEVATION

8

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1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

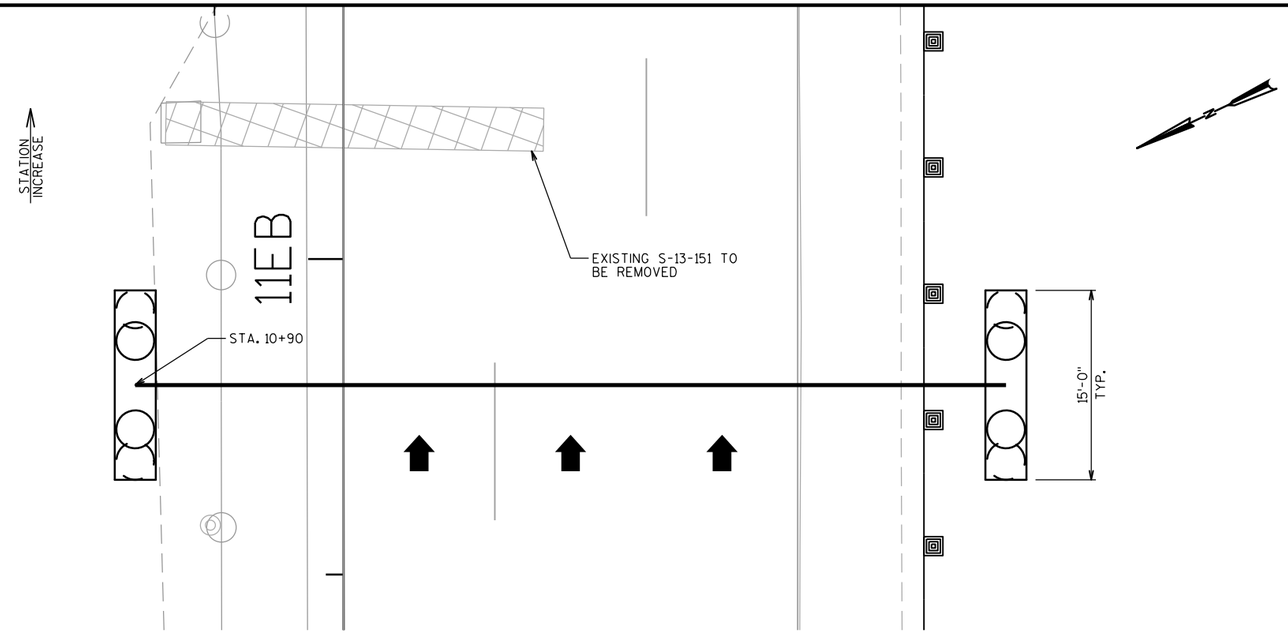
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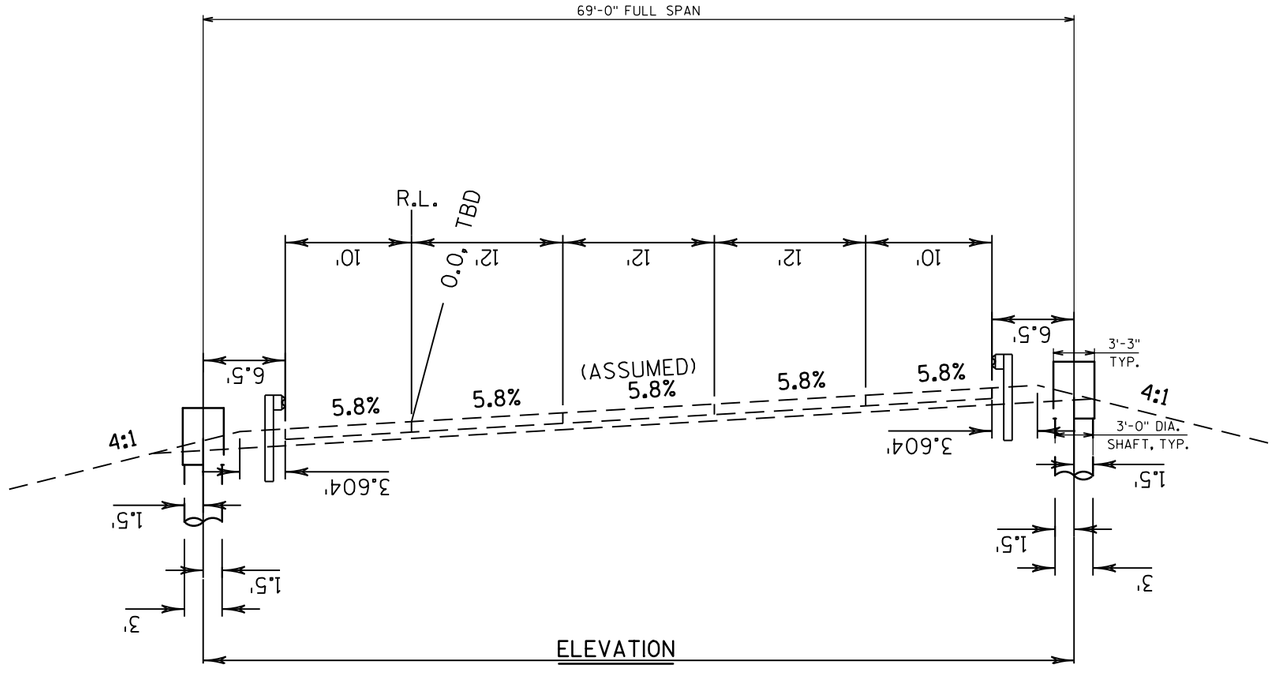
GENERAL LAYOUT
S-13-552

SHEET 11 OF 21

STATE PROJECT NUMBER
1206-06-79



PLAN



ELEVATION

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8

1078 PLANS

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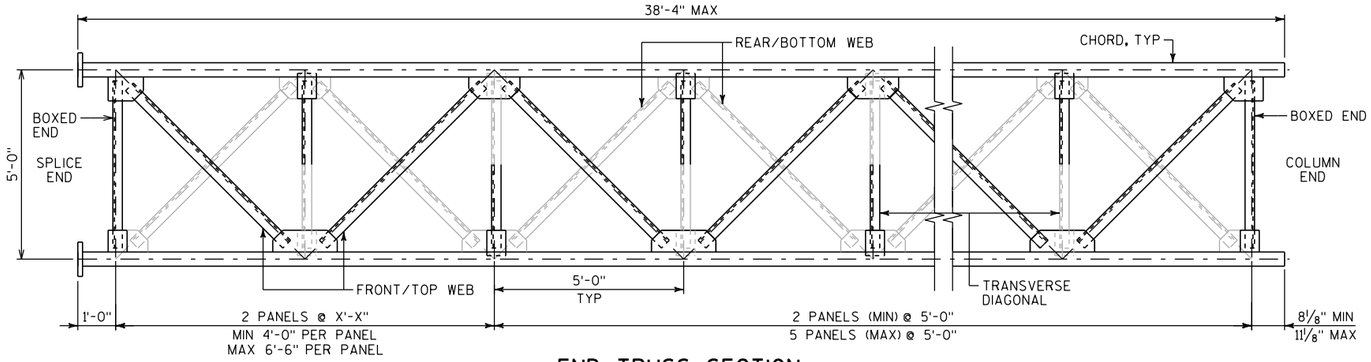
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-553

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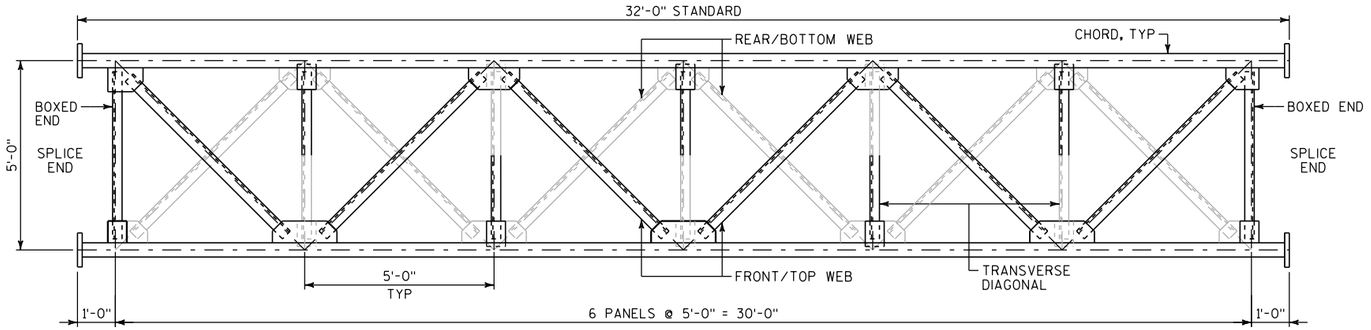
GENERAL LAYOUT
S-13-553

SHEET 12 OF 21



END TRUSS SECTION

LOOKING AT F.F./TOP OF TRUSS

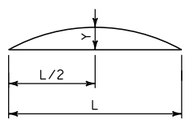


CENTER TRUSS SECTION

LOOKING AT F.F./TOP OF TRUSS

INTERPOLATE FOR VALUES NOT SHOWN

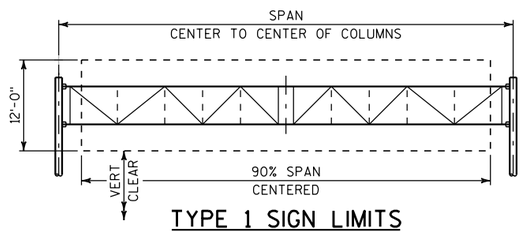
CAMBER VALUES		
SPAN L	Y	
	TYPE I	DMS
60'-0"	1"	1 1/4"
82'-0"	1 1/2"	1 7/8"
102'-0"	2 1/8"	2 5/8"
114'-0"	2 5/8"	3 1/4"
130'-0"	3 1/4"	4"



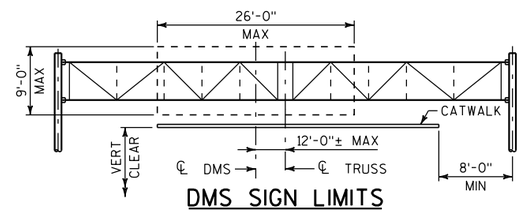
INTERPOLATE FOR VALUES NOT SHOWN.
DMS VALUES INCLUDE DL OF CATWALK.

CAMBER DIAGRAM

CAMBER SHALL BE BUILT INTO THE TRUSS DURING FABRICATION. SHIM PLATES BETWEEN TRUSS SECTIONS TO CREATE CAMBER SHALL NOT BE ALLOWED.

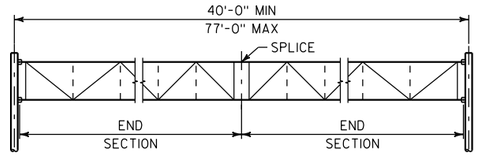


TYPE 1 SIGN LIMITS

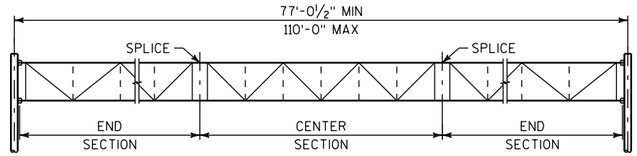


DMS SIGN LIMITS

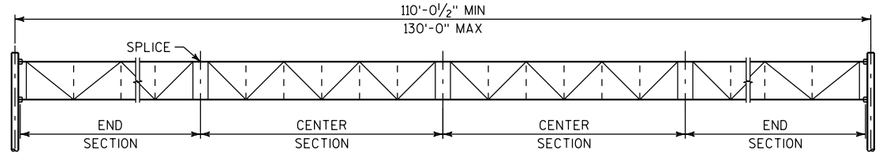
4,500 LB MAX DMS WEIGHT, INCLUDES DMS VERTICAL SUPPORT MEMBERS



2 SECTION TRUSS



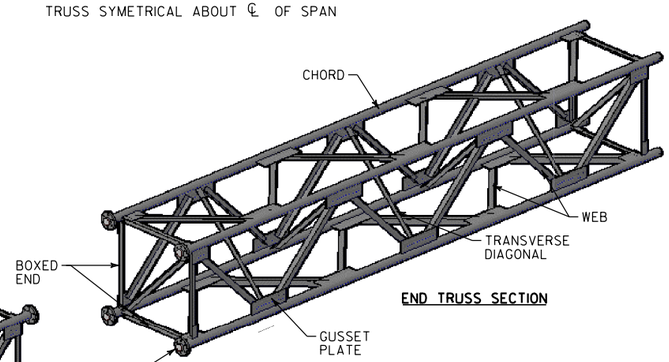
3 SECTION TRUSS



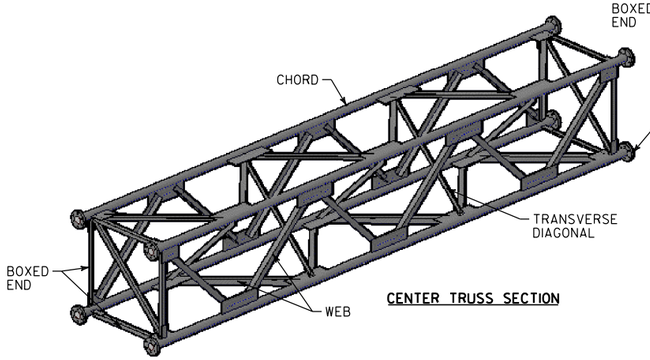
4 SECTION TRUSS

TRUSS CONFIGURATIONS

TRUSS SYMETRICAL ABOUT ℄ OF SPAN



END TRUSS SECTION



CENTER TRUSS SECTION

TYPICAL TRUSS SECTION

THE GENERAL PATTERN SHOWN ABOVE IS TO BE MAINTAINED WHEN ASSEMBLING TRUSSES. NOTE DIRECTION OF INTERIOR DIAGONALS AT SPLICE.

FULL SPAN 4-CHORD TRUSS MEMBER TABLE

STANDARD DESIGN TRUSS	TYPE I SIGN AREA (FT^2)	DMS AREA (FT^2)	MAXIMUM SPAN RANGE	CHORD OUTER DIA. X THK	WEB W X D X THK	BOXED END W X D X THK	TRANSVERSE DIAGONAL W X D X THK	SPLICE PLATE OUTER DIA. X THK	CHORD SPLICE NO. 3/4" BOLTS
A	648	234	60'-0"	5.000" x 0.250"	L3 1/2x3 1/2x5/16	L3x3x1/4	L3x3x1/4	11" x 1 1/2"	8
B	885	234	82'-0"	5.563" x 0.375"	L3 1/2x3 1/2x3/8	L3x3x1/4	L3x3x1/4	11 5/8" x 1 1/2"	8
C	1102	234	102'-0"	5.563" x 0.500"	L4x4x3/8	L3x3x1/4	L3x3x1/4	11 5/8" x 1 1/2"	8
D	1232	234	114'-0"	6.625" x 0.375"	L4x4x7/16	L3x3x1/4	L3x3x1/4	1'-0 5/8" x 1 1/2"	8
E	1404	234	130'-0"	6.625" x 0.500"	L4x4x1/2	L3x3x1/4	L3x3x1/4	1'-0 5/8" x 1 1/2"	8

STATE PROJECT NUMBER

STANDARD

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STANDARD

JAN 2020

OSS 4-CHORD TRUSS FULL SPAN TRUSS DETAILS

SHEET I OF VIII

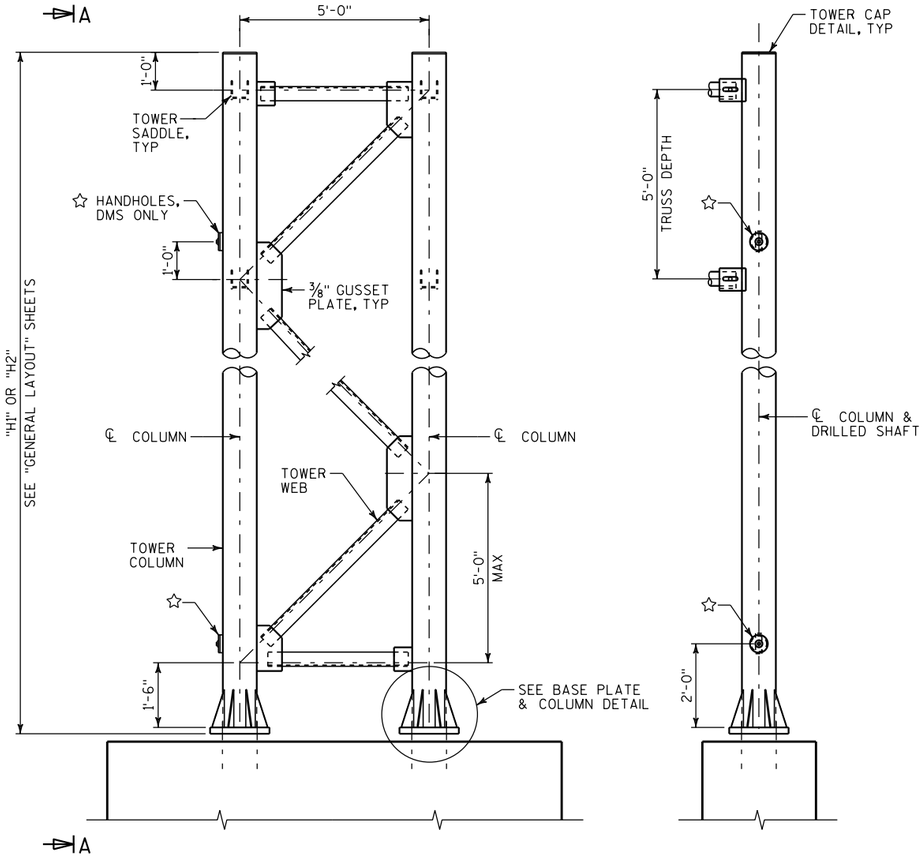
SCALE: 4:1

8

8

STATE PROJECT NUMBER

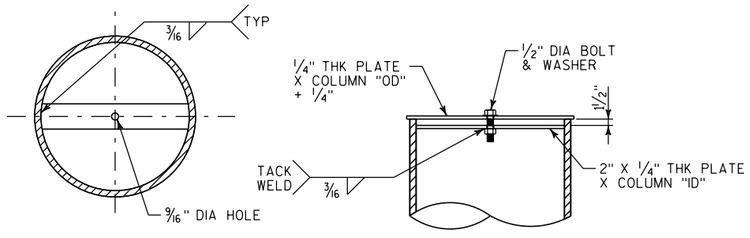
STANDARD



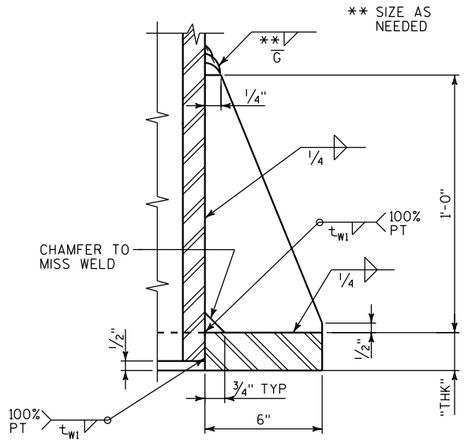
END VIEW COLUMN TRUSS

SECTION A-A

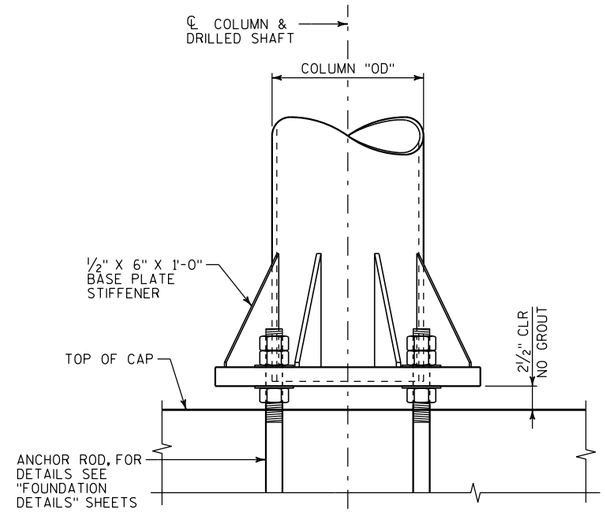
LOOKING AT F.F. OF STRUCTURE
OTHER COLUMN TRUSS SIMILAR



TOWER CAP DETAIL

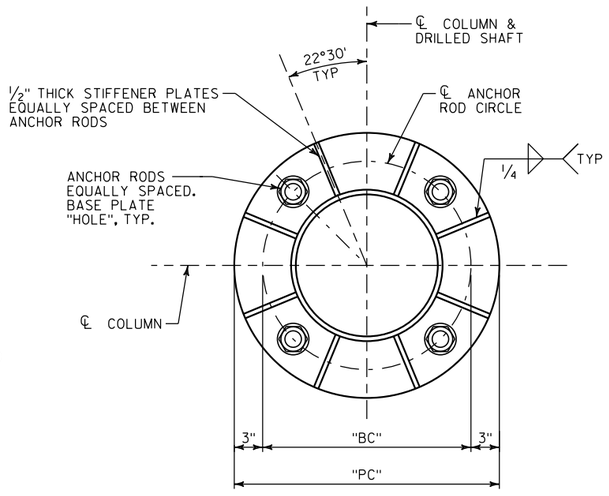


BASE PLATE STIFFENER DETAIL



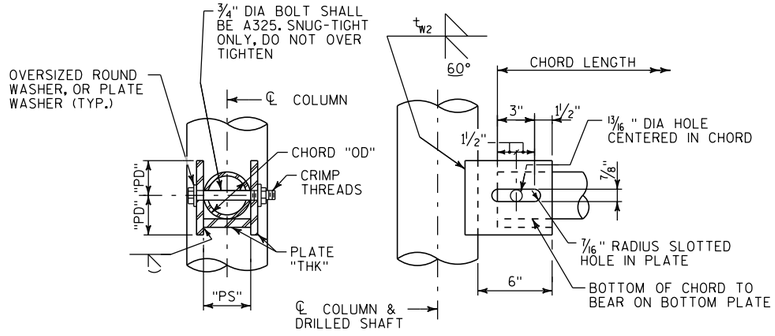
BASE PLATE & COLUMN DETAIL

LOOKING AT FRONT FACE OF STRUCTURE



BASE PLATE

PLAN



TOWER SADDLE CONNECTION DETAILS

BOLT AND HOLE DIMENSIONS SHOWN ARE MINIMUM

FULL SPAN 4-CHORD COLUMN MEMBER TABLE

STANDARD DESIGN TYPE	MAXIMUM COLUMN HEIGHT	COLUMN OUTER DIA x THK	WEB W x D x THK	STIFFENER W x D x THK	BASE PLATE					TOWER SADDLE CONNECTION			
					"t_{W1}"	"HOLE"	"THK"	"BC"	"PC"	"t_{W2}"	"THK"	"PS"	"PD"
A	31'-0"	12.75" x 0.250"	L3 1/2x3 1/2x3/8	6" x 12" x 1/2"	5/16"	1 13/16"	2"	1'-6 3/4"	2'-0 3/4"	1/4"	3/8"	5 3/16"	3 1/4"
B	31'-0"	12.75" x 0.375"	L4x4x3/8	6" x 12" x 1/2"	5/16"	1 13/16"	2"	1'-6 3/4"	2'-0 3/4"	1/4"	3/8"	5 3/4"	3 9/16"
C	31'-0"	12.75" x 0.500"	L4x4x1/2	6" x 12" x 1/2"	5/16"	2 1/16"	2"	1'-6 3/4"	2'-0 3/4"	1/4"	7/16"	5 3/4"	3 9/16"
D	31'-0"	14.00" x 0.500"	L5x5x7/16	6" x 12" x 1/2"	5/16"	2 1/16"	2"	1'-8"	2'-2"	1/4"	7/16"	6 13/16"	4 1/16"
E	31'-0"	16.00" x 0.500"	L5x5x1/2	6" x 12" x 1/2"	5/16"	2 1/16"	2"	1'-10"	2'-4"	1/4"	1/2"	6 13/16"	4 1/16"

LEGEND

☆ FOR OSS WITH DMS ONLY, PROVIDE HANDHOLES AT COLUMN ADJACENT TO DMS. SEE "ELECTRICAL DETAILS" SHEET

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STANDARD

JAN 2020

OSS 4-CHORD TRUSS FULL SPAN COLUMN DETAILS

SHEET II OF VIII

SCALE: 4:1

8

8

STATE PROJECT NUMBER

STANDARD

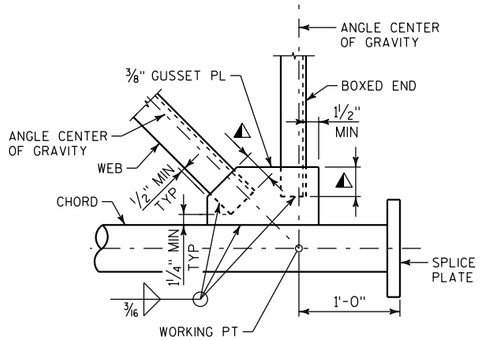
NOTE

FABRICATOR HAS THE OPTION TO USE NON-MITERED, RECTANGULAR GUSSET PLATES IN LIEU OF MITERED PLATES SHOWN ON THESE DETAILS.

MEMBER CONNECTION DATA

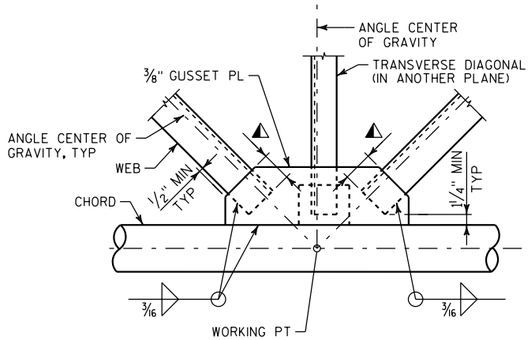
STANDARD DESIGN TYPE	WELD LEG LENGTH		NO. OF BOLTS	
	◭	◐	◪	☆
A	3" MIN	4" MIN	3	3
B	3½" MIN	6" MIN	3	3
C	3½" MIN	6" MIN	3	3
D	4" MIN	6¼" MIN	3	4
E	4½" MIN	7¼" MIN	3	4

FOR ALL ANGLE TO GUSSET CONNECTIONS, BOLT SPACING = 2½"

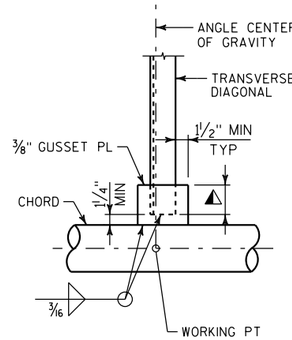


WELDED BOXED END CONNECTION

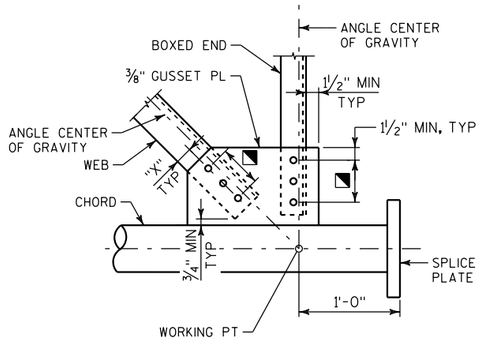
CONNECTION SHOWN AT CHORD SPLICE, CONNECTION AT COLUMN END SIMILAR



WELDED PANEL CONNECTION

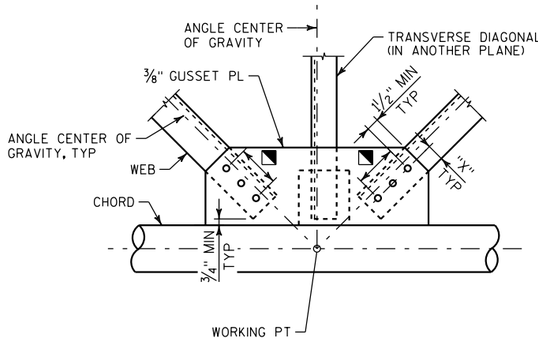


WELDED TRANSVERSE DIAGONAL CONNECTION

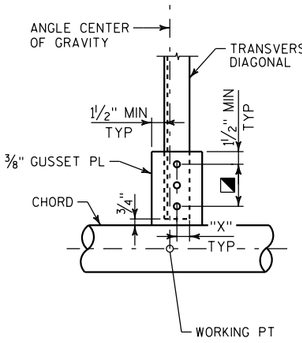


BOLTED BOXED END CONNECTION

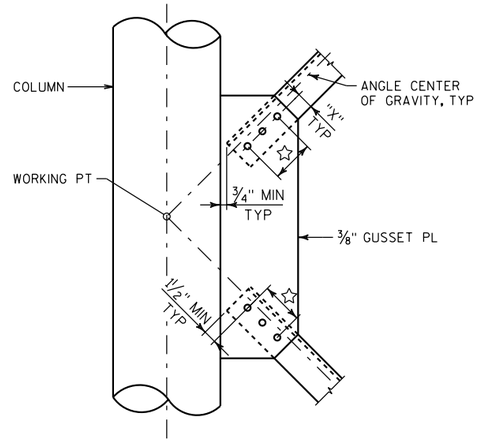
CONNECTION SHOWN AT CHORD SPLICE, CONNECTION AT COLUMN END SIMILAR



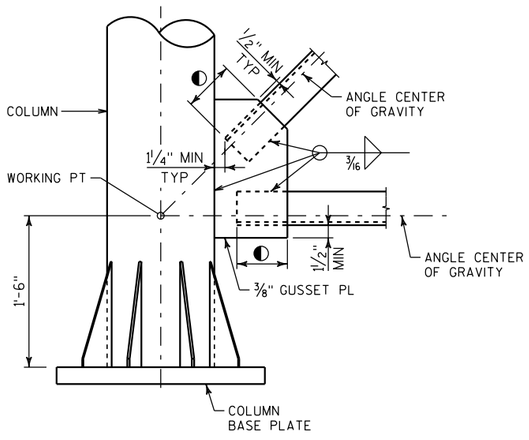
BOLTED PANEL CONNECTION



BOLTED TRANSVERSE DIAGONAL CONNECTION

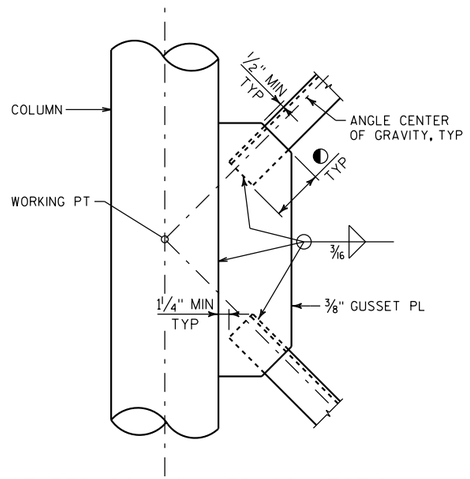


BOLTED COLUMN WEB CONNECTION

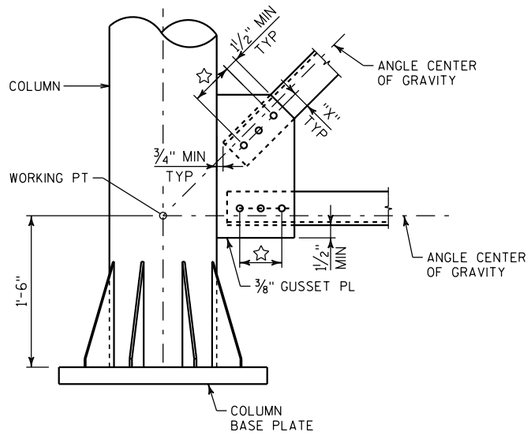


WELDED COLUMN BOTTOM CONNECTION

TOP CONNECTION SIMILAR



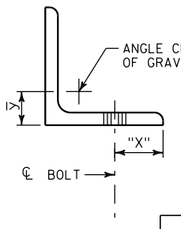
WELDED COLUMN WEB CONNECTION



BOLTED COLUMN BOTTOM CONNECTION

TOP CONNECTION SIMILAR

ANGLE DATA



ANGLE SIZE	ȳ	"X"
L3x3x¼	0.836"	1¼"
L3½x3½x5/16	0.979"	1½"
L3½x3½x⅜	1.00"	1½'
L4x4x⅜	1.13"	1½"
L4x4x7/16	1.15"	1½"
L4x4x½	1.18	1½"
L5x5x7/16	1.40"	2"
L5x5x½	1.42"	2"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STANDARD

JAN 2020

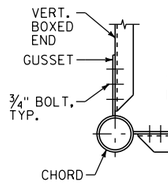
OSS 4-CHORD TRUSS FULL SPAN CONNECTION DETAILS (1 OF 2)

SHEET III OF VIII

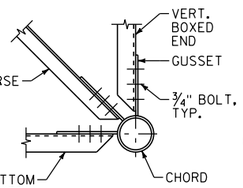
SCALE: 3:1

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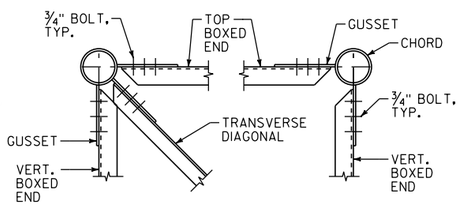
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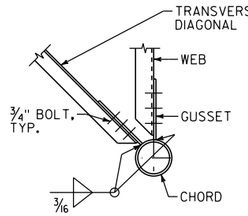
END VIEW 1



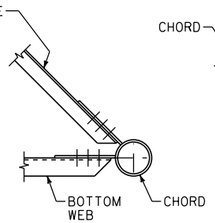
END VIEW 2



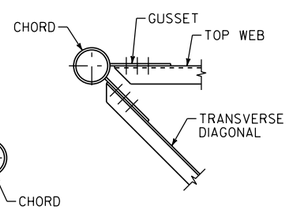
END VIEW 3 END VIEW 4



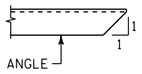
END VIEW 1



END VIEW 2



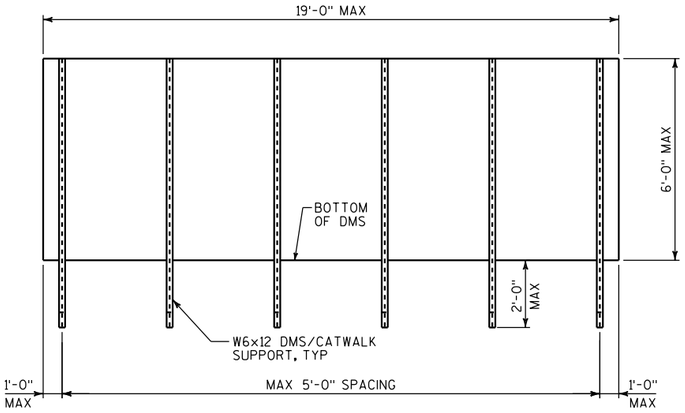
END VIEW 3



CLIP DETAIL

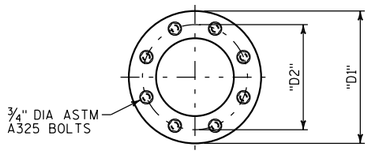
TRUSS CONNECTION DETAILS

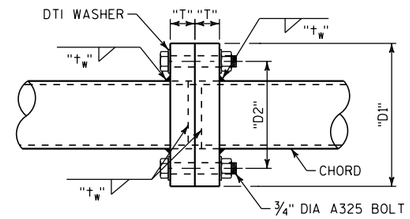
BOLTED CONNECTIONS SHOWN, WELDED CONNECTIONS SIMILAR



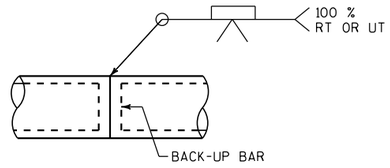
DMS MOUNTING POST SPACING DETAIL

POST SPACING MAY BE ADJUSTED AS REQUIRED IF CONFLICT WITH TRUSS IS ENCOUNTERED.





CHORD SPLICE PLATE DETAIL

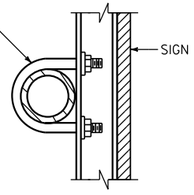


CHORD SPLICE

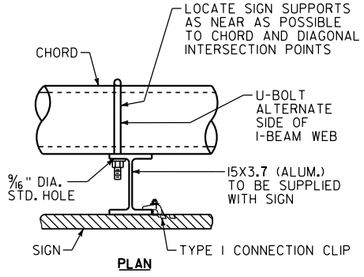
CHORD SPLICE CONNECTION DATA

STANDARD DESIGN TRUSS	"D1"	"D2"	"T"	"+w"	# OF BOLTS
A	11"	8"	1½"	5/16"	8
B	11⅝"	8⅝"	1½"	5/16"	8
C	11⅝"	8⅝"	1½"	⅜"	8
D	1'-0⅝"	9⅝"	1½"	⅜"	8
E	1'-0⅝"	9⅝"	1½"	⅜"	8

½" DIA. STAINLESS STEEL U-BOLT WITH 2 LOCK WASHERS AND 2 HEX NUTS PER BOLT. 2 BOLTS REQUIRED PER 15X3.7. LOCATE TOP & BOTTOM U-BOLT ON OPPOSITE SIDE OF FLANGE.



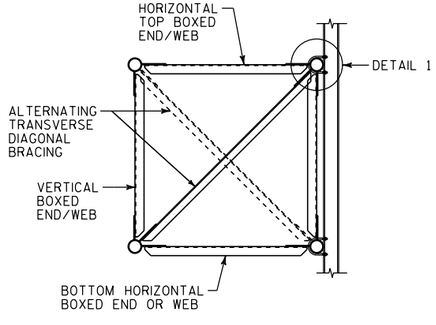
DETAIL 1



PLAN

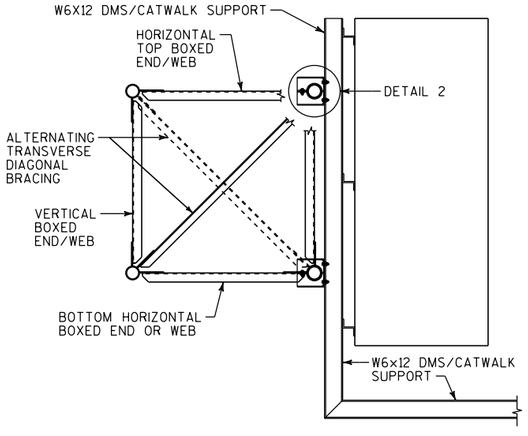
TYPICAL SIGN CONNECTION

USE FOR TYPE I AND II SIGNS
SEE SIGN PLATE MANUAL A4-7A & A4-7B FOR DETAILS



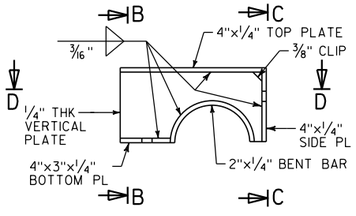
SECTION THRU TRUSS

FOR SIGN CONNECTION

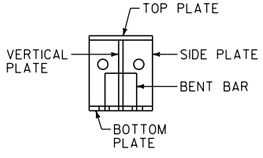


SECTION THRU TRUSS

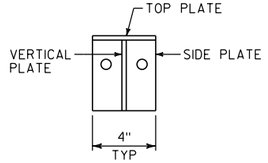
FOR DMS/CATWALK CONNECTION



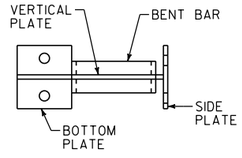
ELEVATION



SECTION B-B



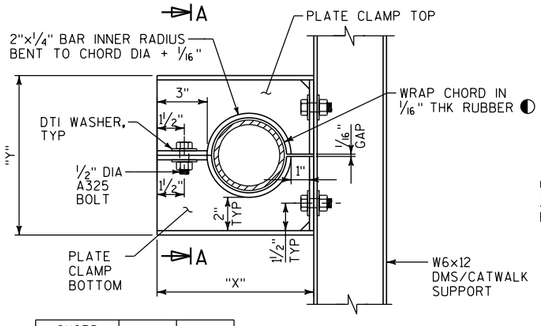
SECTION C-C



SECTION D-D

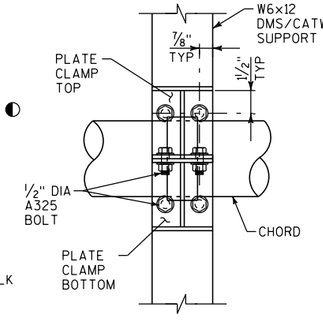
DMS WELDED PLATE CONNECTION DETAILS

TOP PLATE CLAMP SHOWN
BOTTOM PLATE CLAMP SIMILIAR



DETAIL 2

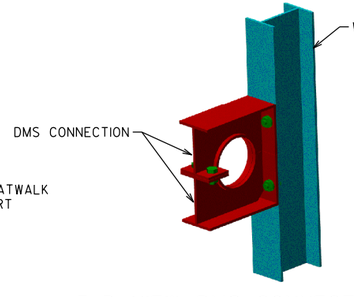
CHORD OUTER DIA	"X"	"Y"
5.000"	9 13/16"	10 1/16"
5.563"	10 3/8"	10 5/8"
6.625"	11 7/16"	11 11/16"



SECTION A-A

TYPICAL DMS CONNECTION

◐ NEOPRENE, GRADE 45±5, OTHERWISE MEETING THE REQUIREMENTS OF STD SPEC 506.2.6.1



3-D VIEW DMS CONNECTION

CHORD NOT SHOWN FOR CLARITY

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STANDARD

JAN 2020

OSS 4-CHORD TRUSS FULL SPAN CONNECTION DETAILS (2 OF 2)

SHEET IV OF VIII

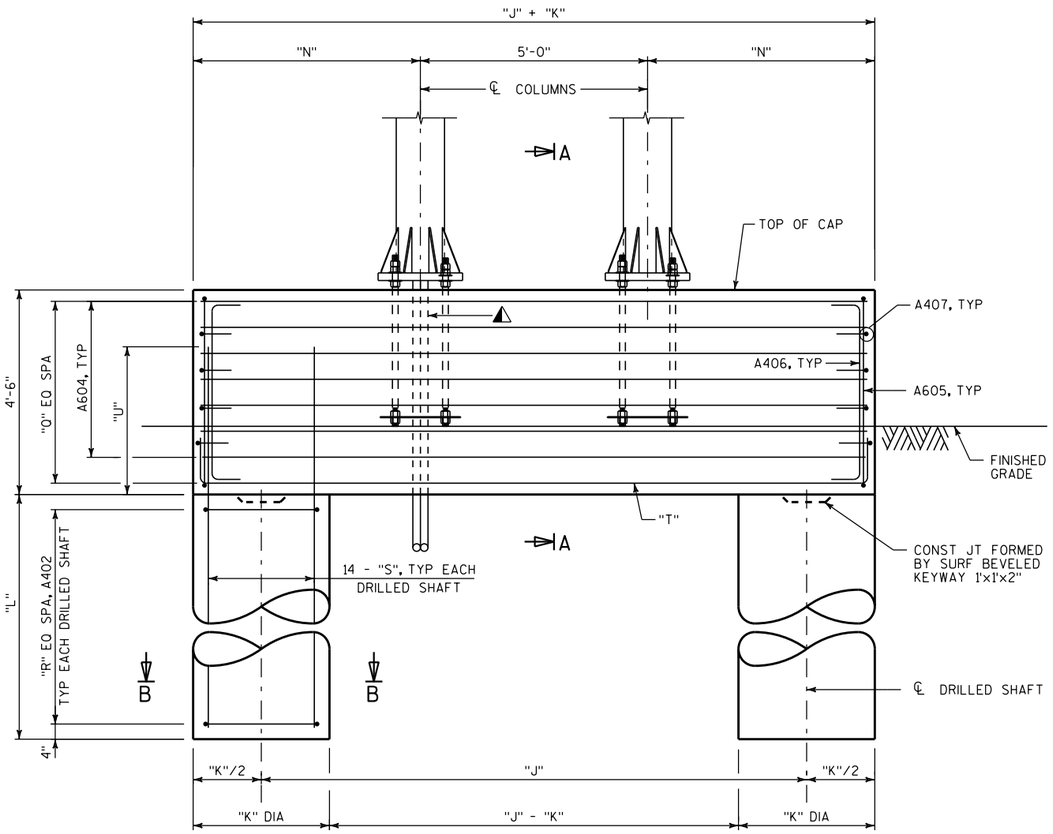
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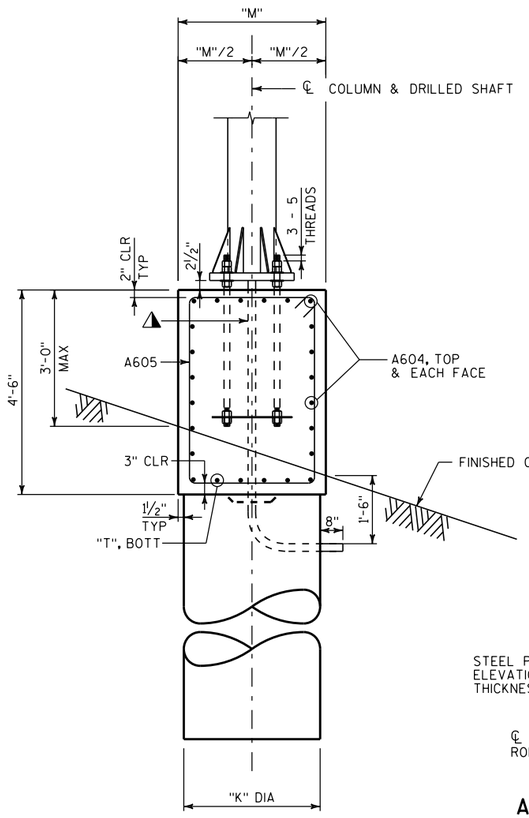
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STATE PROJECT NUMBER

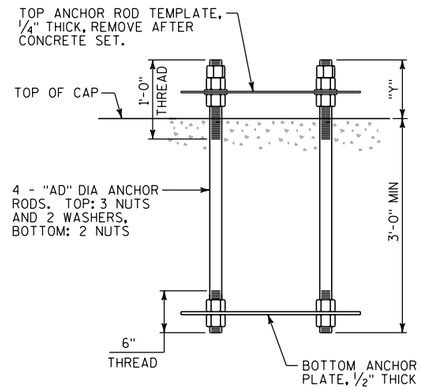
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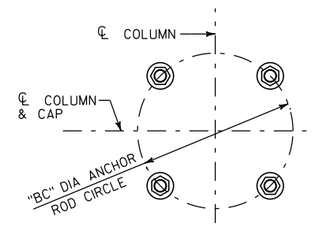
ELEVATION



SECTION A-A



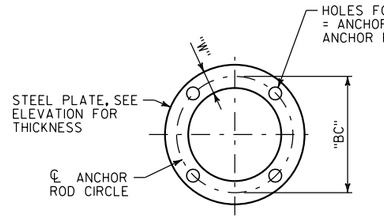
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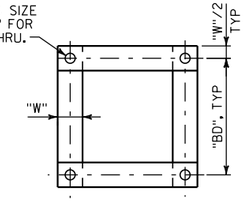
PLAN

ANCHOR ROD ASSEMBLY DETAILS

SINGLE ASSEMBLY SHOWN
4 ANCHOR RODS REQ'D PER ASSEMBLY



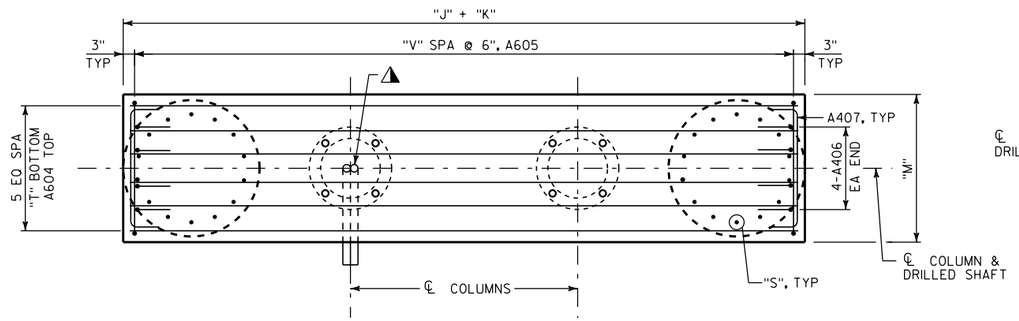
ANCHOR PLATE/TOP TEMPLATE
PLAN



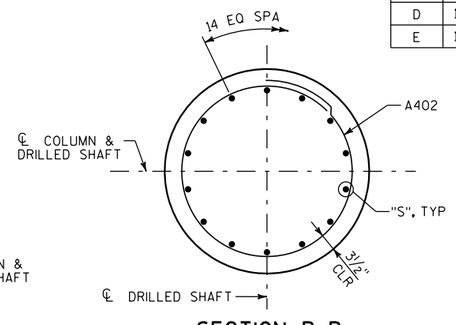
ALTERNATE
ANCHOR PLATE/TOP TEMPLATE
PLAN

FOUNDATION, REINFORCING & ANCHOR PLATE DATA

STD DESIGN TRUSS	FOUNDATION DIMENSIONS											ANCHOR PLATE DIMENSIONS				
	"J"	"K"	"L"	"M"	"N"	"O"	"R"	"S"	"T"	"U"	"V"	"AD"	"BC"	"BD"	"W"	"Y"
A	9'-0"	3'-0"	19'-0"	3'-3"	3'-6"	7	19	A801	A603	2'-2"	17	1½"	1'-6¾"	1'-1¼"	3"	8½"
B	12'-0"	3'-0"	22'-0"	3'-3"	5'-0"	7	22	A801	A603	2'-2"	23	1½"	1'-6¾"	1'-1¼"	3"	8½"
C	12'-0"	3'-6"	23'-0"	3'-9"	5'-3"	7	23	A901	A703	2'-9"	23	1¾"	1'-6¾"	1'-1¼"	3½"	9"
D	15'-0"	3'-6"	23'-0"	3'-9"	6'-9"	7	29	A901	A703	2'-9"	29	1¾"	1'-8"	1'-2⅛"	3½"	9"
E	15'-0"	4'-0"	23'-0"	4'-3"	7'-0"	8	23	A1001	A703	3'-5"	29	1¾"	1'-10"	1'-3⅝"	3½"	9"



PLAN



SECTION B-B

TYPICAL FOR EACH DRILLED SHAFT FOOTING

NOTES

CENTER ANCHOR ROD ASSEMBLY AND MAKE SURE IT IS PLUMB. MAINTAIN ANCHOR ROD PROJECTION ABOVE FOOTING AS DETAILED ON PLAN. ANCHOR ROD ASSEMBLY SHALL BE RIGIDLY SECURED IN POSITION DURING AND AFTER CONCRETE PLACEMENT. DO NOT WELD THE ANCHOR RODS.

LEGEND

⚠ 2 - 2" DIA NONMETALLIC CONDUITS, INSTALL ONLY WITH DMS. EXTEND CONDUITS AS SHOWN AND CAP OR SEAL EACH END WITH A SUITABLE REMOVABLE PLUG. PLACE CONDUITS UNDER COLUMN ADJACENT TO THE DMS. CONDUITS INCIDENTAL TO THE BID ITEM "ANCILLARY STRUCTURES CONCRETE MASONRY".

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OSS 4-CHORD TRUSS FULL SPAN FOUNDATION DETAILS (1 OF 2)

SHEET V OF VIII

SCALE: 3.333333:1

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8

NOTE:
THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.

BILL OF BARS - STANDARD DESIGN TRUSS A

BAR MARK	COAT	NO REQ'D	LENGTH	BENT	LOCATION
A801		56	24'-2"		DRILLED FOOTING - VERTICAL
A402		76	9'-0"	X	DRILLED FOOTING - HORIZONTAL
A603	X	12	13'-3"	X	FOOTING - LONGITUDINAL - BOTTOM
A604	X	36	11'-8"		FOOTING - LONGITUDINAL - TOP & SIDES
A605	X	48	14'-10"	X	FOOTING - STIRRUP
A406	X	16	4'-7"	X	FOOTING - VERTICAL - EACH END
A407	X	16	3'-5"	X	FOOTING - HORIZONTAL - EACH END

BILL OF BARS - STANDARD DESIGN TRUSS B

BAR MARK	COAT	NO REQ'D	LENGTH	BENT	LOCATION
A801		56	24'-2"		DRILLED FOOTING - VERTICAL
A402		88	9'-0"	X	DRILLED FOOTING - HORIZONTAL
A603	X	12	16'-3"	X	FOOTING - LONGITUDINAL - BOTTOM
A604	X	36	14'-8"		FOOTING - LONGITUDINAL - TOP & SIDES
A605	X	60	14'-10"	X	FOOTING - STIRRUP
A406	X	16	4'-7"	X	FOOTING - VERTICAL - EACH END
A407	X	16	3'-5"	X	FOOTING - HORIZONTAL - EACH END

BILL OF BARS - STANDARD DESIGN TRUSS C

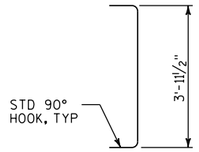
BAR MARK	COAT	NO REQ'D	LENGTH	BENT	LOCATION
A901		56	25'-9"		DRILLED FOOTING - VERTICAL
A402		92	10'-6"	X	DRILLED FOOTING - HORIZONTAL
A703	X	12	17'-1"	X	FOOTING - LONGITUDINAL - BOTTOM
A604	X	36	15'-2"		FOOTING - LONGITUDINAL - TOP & SIDES
A605	X	62	15'-10"	X	FOOTING - STIRRUP
A406	X	16	4'-7"	X	FOOTING - VERTICAL - EACH END
A407	X	16	3'-11"	X	FOOTING - HORIZONTAL - EACH END

BILL OF BARS - STANDARD DESIGN TRUSS D

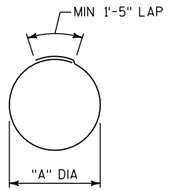
BAR MARK	COAT	NO REQ'D	LENGTH	BENT	LOCATION
A901		56	25'-9"		DRILLED FOOTING - VERTICAL
A402		92	10'-6"	X	DRILLED FOOTING - HORIZONTAL
A703	X	12	20'-1"	X	FOOTING - LONGITUDINAL - BOTTOM
A604	X	36	18'-2"		FOOTING - LONGITUDINAL - TOP & SIDES
A605	X	74	15'-10"	X	FOOTING - STIRRUP
A406	X	16	4'-7"	X	FOOTING - VERTICAL - EACH END
A407	X	16	3'-11"	X	FOOTING - HORIZONTAL - EACH END

BILL OF BARS - STANDARD DESIGN TRUSS E

BAR MARK	COAT	NO REQ'D	LENGTH	BENT	LOCATION
A1001		56	26'-5"		DRILLED FOOTING - VERTICAL
A402		92	12'-1"	X	DRILLED FOOTING - HORIZONTAL
A703	X	12	20'-7"	X	FOOTING - LONGITUDINAL - BOTTOM
A604	X	40	18'-8"		FOOTING - LONGITUDINAL - TOP & SIDES
A605	X	76	16'-10"	X	FOOTING - STIRRUP
A406	X	16	4'-7"	X	FOOTING - VERTICAL - EACH END
A407	X	16	4'-5"	X	FOOTING - HORIZONTAL - EACH END

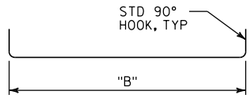


A406



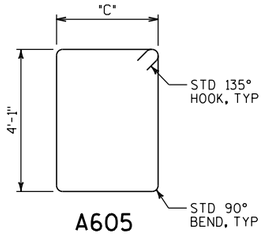
A402

DESIGN TYPE	"A"
A	2'-5"
B	2'-5"
C	2'-11"
D	2'-11"
E	3'-5"



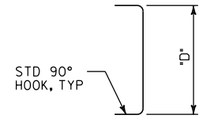
A603, A703

DESIGN TYPE	BAR MARK	"B"
A	A603	11'-7"
B	A603	14'-7"
C	A703	15'-1"
D	A703	18'-1"
E	A703	18'-7"



A605

DESIGN TYPE	"C"
A	2'-11"
B	2'-11"
C	3'-5"
D	3'-5"
E	3'-11"



A407

DESIGN TYPE	"D"
A	2'-9½"
B	2'-9½"
C	3'-3½"
D	3'-3½"
E	3'-9½"

BAR BENDING DIAGRAMS

NOTE:
BAR DIMENSIONS ARE OUT TO OUT OF BAR. THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.

ESTIMATED QUANTITIES - FOUNDATION

STANDARD DESIGN TRUSS	ANCILLARY STRUCTURES CONCRETE MASONRY (CY)	ANCILLARY STRUCTURES STEEL REINFORCEMENT HS (LBS)	ANCILLARY STRUCTURES STEEL REINFORCEMENT HS COATED (LBS)	ANCHOR ASSEMBLY 1½-INCH (EACH)	ANCHOR ASSEMBLY 1¾-INCH (EACH)	FOUNDATION DRILLNG (LF)
A	33	4,080	2,030	4	----	76
B	40	4,150	2,510	4	----	88
C	53	5,550	2,810	----	4	92
D	56	5,550	3,330	----	4	92
E	70	7,110	3,650	----	4	92

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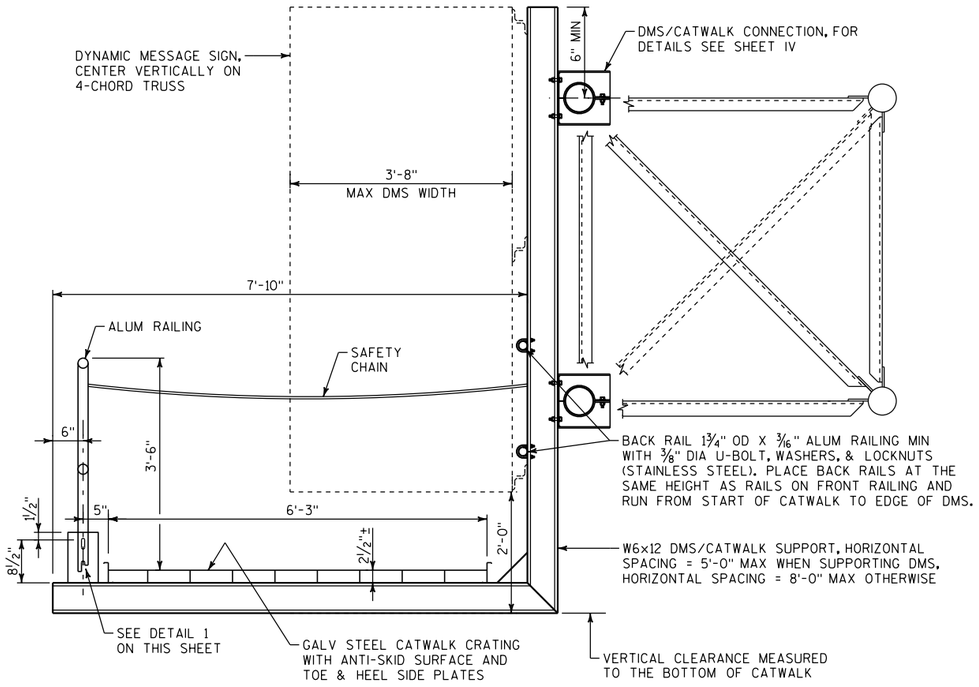
OSS 4-CHORD TRUSS FULL SPAN FOUNDATION DETAILS (2 OF 2)

SHEET VI OF VIII

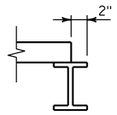
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STATE PROJECT NUMBER

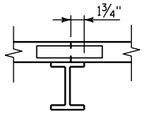
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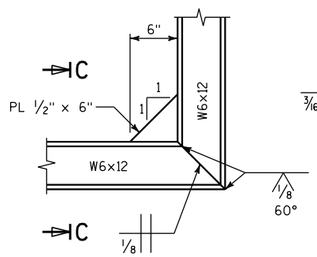
SECTION THRU WALKWAY



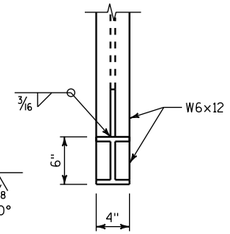
CATWALK TERMINATION DETAIL



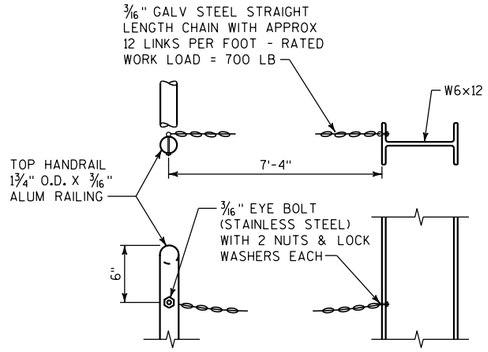
CATWALK SPLICE LOCATION DETAIL



BRACKET DETAIL

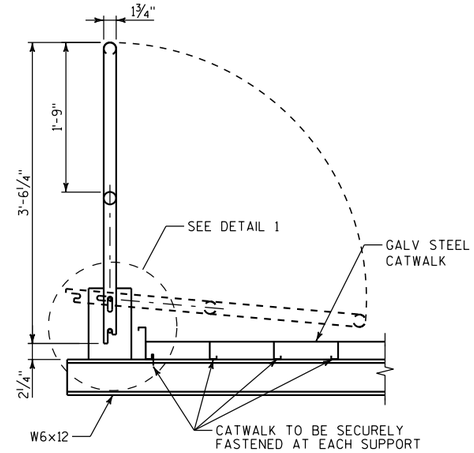


SECTION C-C

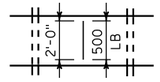


SAFETY CHAIN DETAIL

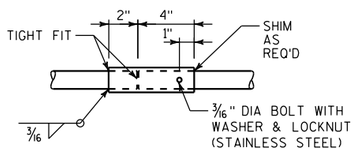
(PROVIDE SAFETY CHAIN AT EACH END OF THE CATWALK)



RAIL POST DETAIL

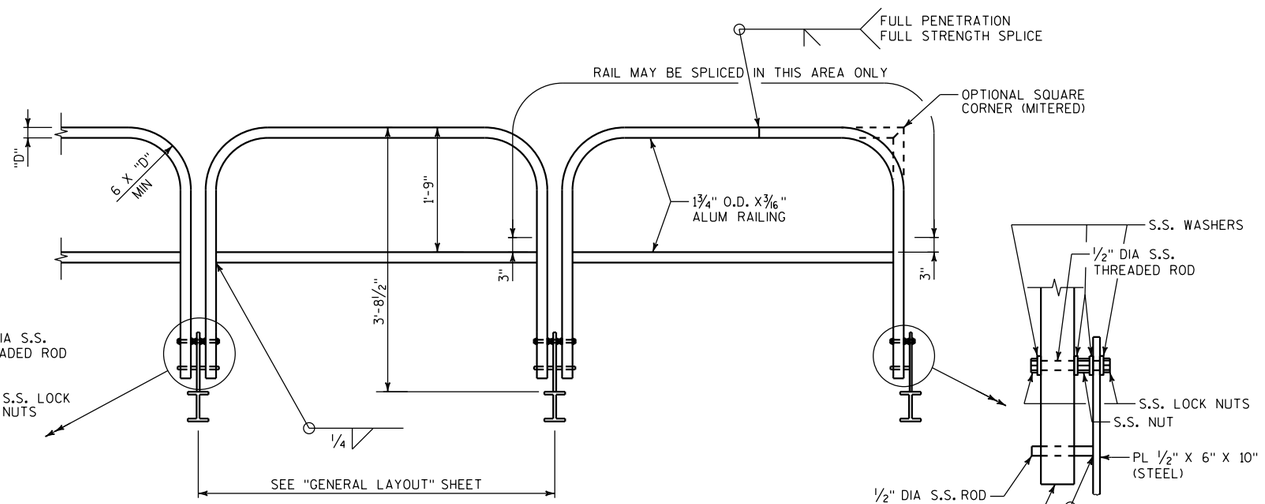


NOTE:
CATWALK GRATING SHALL MEET THE CURRENT AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS", (500 LB LIVE LOAD DISTRIBUTED OVER 2'-0" TRANSVERSELY - MAX SPAN IS 8'-0"). CATWALK SHALL ALSO MEET CURRENT OSHA STD'S FOR WALKING-WORKING SURFACES.

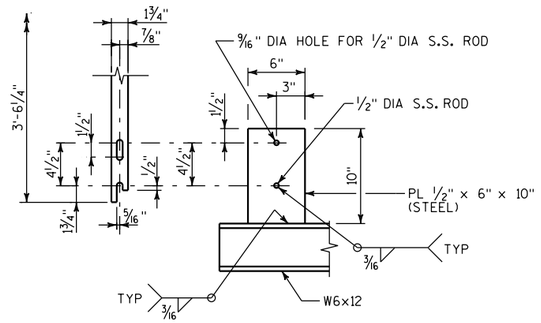


BACKRAIL SPLICE

ONE SPLICE ALLOWED FOR LENGTHS OVER 30'-0"



TYPICAL FRONT RAILING DETAILS



DETAIL 1

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OSS 4-CHORD TRUSS FULL SPAN CATWALK DETAILS

SHEET VII OF VIII

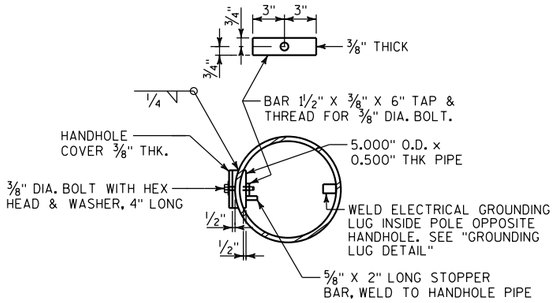
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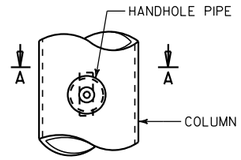
8

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SECTION A-A

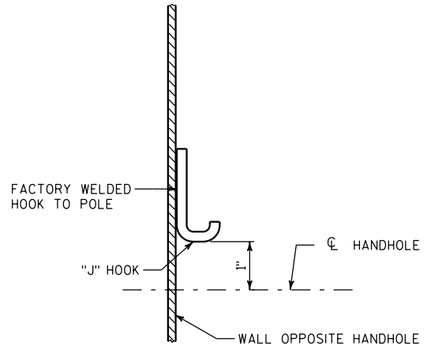


HANDHOLE DETAILS

HANDHOLE NOTES

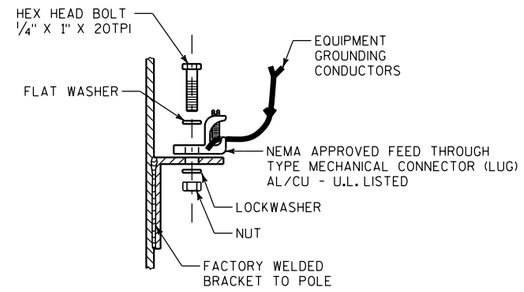
HANDHOLES SHALL BE LOCATED IN ONE COLUMN OF THE SIGN BRIDGE STRUCTURE IF ELECTRICALLY OPERATED DEVICES ARE INSTALLED ON/IN THE STRUCTURE. COLUMNS WITH HANDHOLES SHALL BE NEAR THE ELECTRICAL SERVICE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE ELECTRICAL SERVICE ENTRANCE WITH THE REGION TRAFFIC SECTION PRIOR TO FABRICATION OF THE SIGN BRIDGE COLUMNS AND MEMBERS. CONDUIT (AS REQ'D.) SHALL BE LOCATED, PLACED AND SIZED AS SHOWN ON THE ELECTRICAL PLAN DETAIL SHEETS.

UNLESS NOTED OTHERWISE, ALL HANDHOLE ELEMENTS TO BE GALVANIZED PER SECTION 641 OF THE WISDOT STANDARD SPECIFICATIONS.



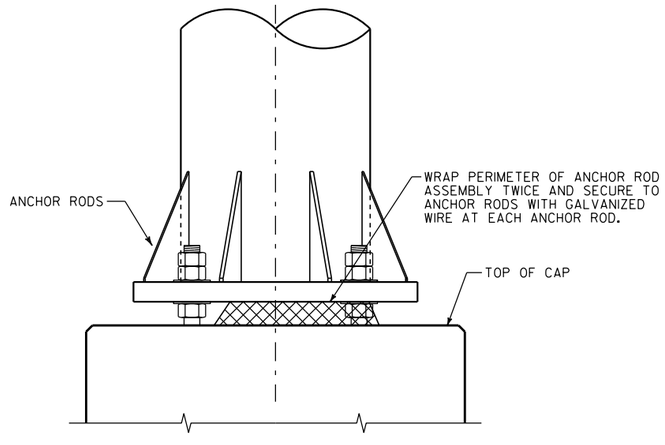
TYPICAL "J" HOOK LOCATION

THE "J" HOOK SHALL BE FACTORY WELDED TO THE INSIDE OF ALL COLUMNS CONTAINING ELECTRICAL WIRING. THE "J" HOOK SHALL BE ATTACHED ABOVE THE CENTERLINE OF THE UPPER HANDHOLE AND MOUNTED DIRECTLY OPPOSITE THE HANDHOLE AS SHOWN IN THE DRAWING.



GROUNDING LUG DETAIL

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



RODENT SCREEN

(ONLY REQ'D. WHEN ELECTRICAL DEVICES ARE INSTALLED)

8

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OSS 4-CHORD TRUSS FULL SPAN ELECTRICAL DETAILS

SHEET VIII OF VIII

SCALE: 4:1

STATE PROJECT NUMBER
1206-06-79

DESIGN DATA

SIGN STR	ACTUAL SIGN AREA		ACTUAL SIGN HEIGHT		FND TYPE
	TYPE 1	DMS	TYPE 1	DMS	
S-13-2033	XXX SF	XXX SF	X'-X"	X'-X"	--
S-13-2034	XXX SF	XXX SF	X'-X"	X'-X"	--
S-13-20XX	XXX SF	XXX SF	X'-X"	X'-X"	--
S-13-2035	XXX SF	XXX SF	X'-X"	X'-X"	--
S-13-2036	XXX SF	XXX SF	X'-X"	X'-X"	--
DESIGN SIGN	XXX SF	XXX SF	X'-X"	X'-X"	--

ALL STRUCTURES IN THIS GROUP OF STRUCTURES ARE DESIGNED FOR THE DESIGN SIGN LOADING

DESIGNED ACCORDING TO THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS", 1ST EDITION AND INTERIM SPECIFICATIONS, AND THE WISDOT BRIDGE MANUAL

FOUNDATION DESIGNED ACCORDING TO THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION.

DEAD LOAD - WT. OF SIGN AND SUPPORTING STRUCTURE.
ICE LOAD - 3 PSF TO ONE FACE OF SIGN & AROUND SURFACE OF MEMBERS.
WIND PRESSURE - 120 MPH (3-SEC. GUST SPEED) TO SIGN AREA & EXPOSED MEMBERS. (1700 YEAR MEAN RECURRENCE INTERVAL)

WIND COMPONENTS	NORMAL	TRANSVERSE
LOAD CASE 1	1.0	0.0
LOAD CASE 2	0.0	1.0
LOAD CASE 3	0.75	0.75

LOAD COMBINATIONS

STRENGTH I: 1.25 DC + 1.6 LL
EXTREME I (MAX DC): 1.1 DC + 1.0 W + 1.0 ICE
EXTERME I (MIN DC): 0.9 DC + 1.0 W
SERVICE I: 1.0 DC + 1.0 W
FATIGUE I: 1.0 NWG (NATURAL WIND GUST VIBRATION)
1.0 TrG (TRUCK INDUCED GUST VIBRATION)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALTERNATE DESIGNS ARE NOT ALLOWED.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS),DANE COUNTY ZONE, NAD 83 (2011). ALL STATIONS AND ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM NAVD 88 (2012).

ALL REINFORCING BARS ARE IN ENGLISH UNITS. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

SIGN BRIDGE ID PLAQUES SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN WITH CANTILEVER S-13-20XX" FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET. LOCATE THE ID PLAQUE ON THE FREEWAY SIDE OF THE SUPPORT COLUMN SO THAT IT CAN BE SEEN FROM THE ROADWAY. FABRICATE AND INSTALL THE ID PLAQUE IN ACCORDANCE WITH S.D.D. 12 A 4-3.

IF REQUIRED, CATWALKS SHALL BE INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN WITH CANTILEVER S-13-20XX" FOR EACH APPLICABLE SIGN STRUCTURE IN THE PLAN SET.

UNLESS DETAILED OTHERWISE IN THE PLANS, ALL H.S. BOLTED CONNECTIONS SHALL BE MADE WITH ¾" DIA A325 GALVANIZED BOLTS. FIELD CONNECTIONS SHALL BE INSTALLED WITH DTI WASHERS.

WELDED CONNECTIONS CAN BE USED IN LIEU OF BOLTED CONNECTIONS, IF A TRUSS UNIT CAN BE GALVANIZED IN ONE PIECE.

WELD TEST AS PER AWS D1.1.

SEE SIGN PLATE NO. A4-7A & A4-7B OF THE SIGN PLATE MANUAL FOR INSTRUCTIONS ON CENTERING SIGNS VERTICALLY ON THE TRUSS.

SIGNS OR BLANKS SHALL BE INSTALLED ON TRUSS AT TIME OF ERECTION. BLANKS SHALL BE 1/4 THE LENGTH OF THE BRIDGE OR CANTILEVER SPAN, 2'-0" DEEPER THAN THE C/L TO C/L OF CHORDS, AND SHALL BE CENTERED ON THE BRIDGE OR CANTILEVER SPAN. SIGNS SHALL BE AS DESIGNATED ON THE PLANS.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES AND STORM SEWER IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION OF THE TYPE AND LOCATION OF UTILITIES AND STORM SEWER AS MAY BE NECESSARY TO AVOID DAMAGE.

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS PRIOR TO FABRICATION OF THE STRUCTURE. CONTRACTOR SHALL SHOW SIGNS ON SHOP DRAWINGS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRILLING OR EXCAVATING AND MAINTAINING A STABLE AND OPEN HOLE FOR SUBSEQUENT INSTALLATION OF CONCRETE MASONRY FOR THE DRILLED SHAFTS. PARTIAL OR FULL DEPTH TEMPORARY CASING MAY BE REQUIRED TO MAINTAIN THE STABILITY OF THE EXCAVATED HOLE FOR THE SIGN SUPPORT PRIOR TO FILLING THE HOLE WITH CONCRETE. PERMANENT CASING MADE FROM STEEL OR CORRUGATED METAL PIPE MAY BE USED IN LIEU OF TEMPORARY CASING. TEMPORARY/PERMANENT CASING, IF USED, SHALL BE INCIDENTAL TO THE BID ITEM "FOUNDATION DRILLING".

TRAFFIC VOLUME

A.D.T. (2036) = 139,650-164,190
R.D.S. = 60 MPH

FOUNDATION DATA

SIGN STRUCTURE FOUNDATIONS ARE SUPPORTED ON DRILLED SHAFTS THAT HAVE BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 24° (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 750 PSF (COHESIVE SOILS) AND A UNIT WEIGHT OF 125 PCF. THE GROUND WATER TABLE IS ASSUMED TO BE AT A DEPTH OF 10'-0" BELOW THE GROUND SURFACE. THE REGION GEOTECHNICAL ENGINEER SHALL VISUALLY INSPECT THE SUBSURFACE SOILS DURING DRILLING OF THE SHAFT HOLE TO CONFIRM THESE PROPERTIES PRIOR TO PLACEMENT OF THE DRILLED SHAFT CONCRETE.

MATERIAL PROPERTIES

CONCRETE MASONRY ---------- f'c = 3,500 psi

HIGH STRENGTH STEEL REINFORCEMENT, GRADE 60 ---------- fy = 60,000 psi

STRUCTURAL ANGLES, PLATE AND BARS - ASTM A709 GRADE 36 ---------- fy = 36,000 psi

CHORDS & COLUMN PIPE - ASTM A500 GRADE C ---------- fy = 46,000 psi

HIGH STRENGTH BOLTS - A325 ---------- fy = 92,000 psi

ANCHOR RODS - ASTM F1554 GRADE 55 ---------- fy = 55,000 psi

HEAVY HEX NUTS FOR ANCHOR RODS - ASTM A563A

WASHERS FOR ANCHOR RODS - ASTM F436

LIST OF DRAWINGS

1. GENERAL NOTES & DESIGN DATA
2. GENERAL LAYOUT S-13-2033
3. GENERAL LAYOUT S-13-2034
4. GENERAL LAYOUT S-13-20XX
5. GENERAL LAYOUT S-13-2035
6. GENERAL LAYOUT S-13-2036

TOTAL ESTIMATED QUANTITES

BID ITEM NO.	BID ITEMS	UNIT	S-13-2033	S-13-2034	S-13-20XX	S-13-20XX	S-13-2035	S-13-2036
502.3210	PIGMENTED SURFACE SEALER	SY	--	--	--	--	--	--
531.00XX	FOUNDATION DRILLING 36-INCH	LF	--	--	--	--	--	--
531.00XX	FOUNDATION DRILLING 42-INCH	LF	--	--	--	--	--	--
531.1000	ANCILLARY STRUCTURES CONCRETE MASONRY	CY	--	--	--	--	--	--
531.2400	ANCILLARY STRUCTURES STEEL REINFORCEMENT HS	LB	--	--	--	--	--	--
531.2600	ANCILLARY STRUCTURES STEEL REINFORCEMENT HS COATED	LB	--	--	--	--	--	--
531.60XX	ANCHOR ASSEMBLIES X-INCH	EA	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN WITH CANTILEVER S-13-2033	LF	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN WITH CANTILEVER S-13-2034	LF	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN WITH CANTILEVER S-13-20XX	LF	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN WITH CANTILEVER S-13-2035	LF	--	--	--	--	--	--
SPV.0090.XX	OVERHEAD SIGN STRUCTURE 4-CHORD TRUSS FULL SPAN WITH CANTILEVER S-13-2036	LF	--	--	--	--	--	--
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	--	--	--	--	--	--
653.XXXX	JUNCTION BOXES (SIZE)	EA	--	--	--	--	--	--

THE DESIGNER CERTIFIES THAT THE SIGN STRUCTURE GEOMETRY AND STANDARD FOUNDATION CHOSEN ARE CONSISTENT WITH THE GUIDANCE PROVIDED IN THE CURRENT WISCONSIN BRIDGE MANUAL CHAPTER 39.

1078 PLANS

STRUCTURE DESIGN CONTACTS

BUREAU OF STRUCTURES:
SUPERVISOR:
AARON BONK (608) 261-0261

CONSULTANT:
PAT CASHIN (414) 359-2300

NO.	DATE	REVISION	BY

ORIGINAL PLANS PREPARED BY

HNTB (414) 359-2300

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER DATE

OSS 4-CHORD TRUSS FULL SPAN WITH CANTILEVER PLANS

FULL SPAN SIGN STRUCTRES
USH 12/18 EB&WB

COUNTY	CITY OR TOWN
DANE	MADISON

DESIGN SPEC.
AASHTO LRFDLTS-1 W/INTERIMS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.

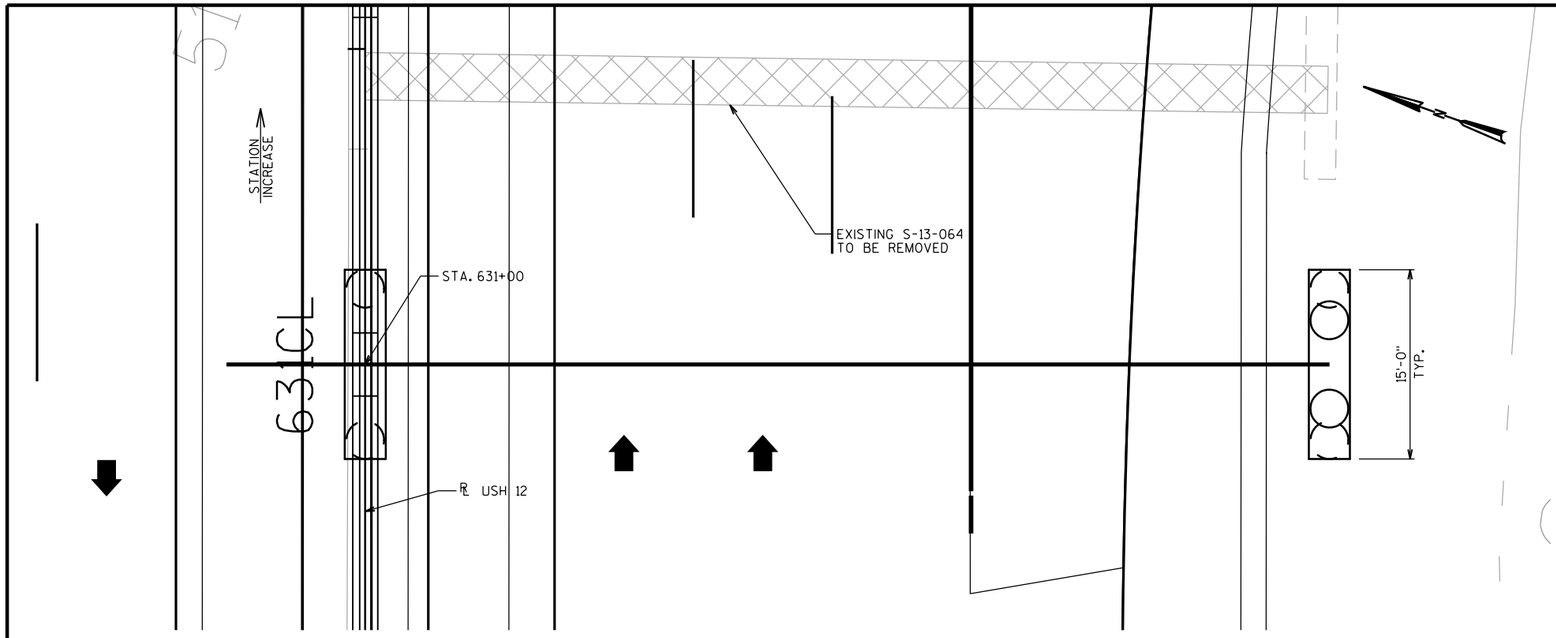
GENERAL NOTES, DESIGN DATA & QUANTITES

SHEET 1 OF 6

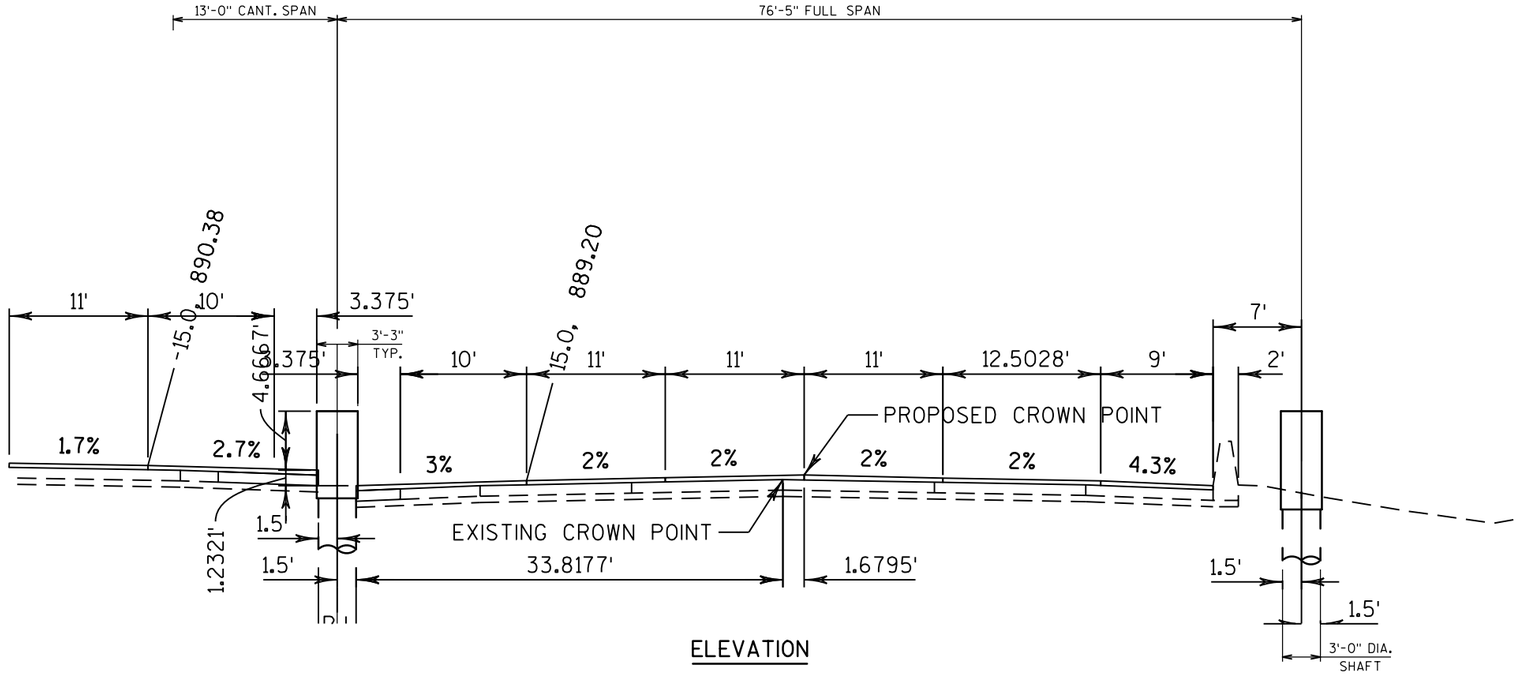
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8

STATE PROJECT NUMBER
1206-06-79



PLAN



ELEVATION

8

8

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-2033

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-2033

SHEET 2 OF 6

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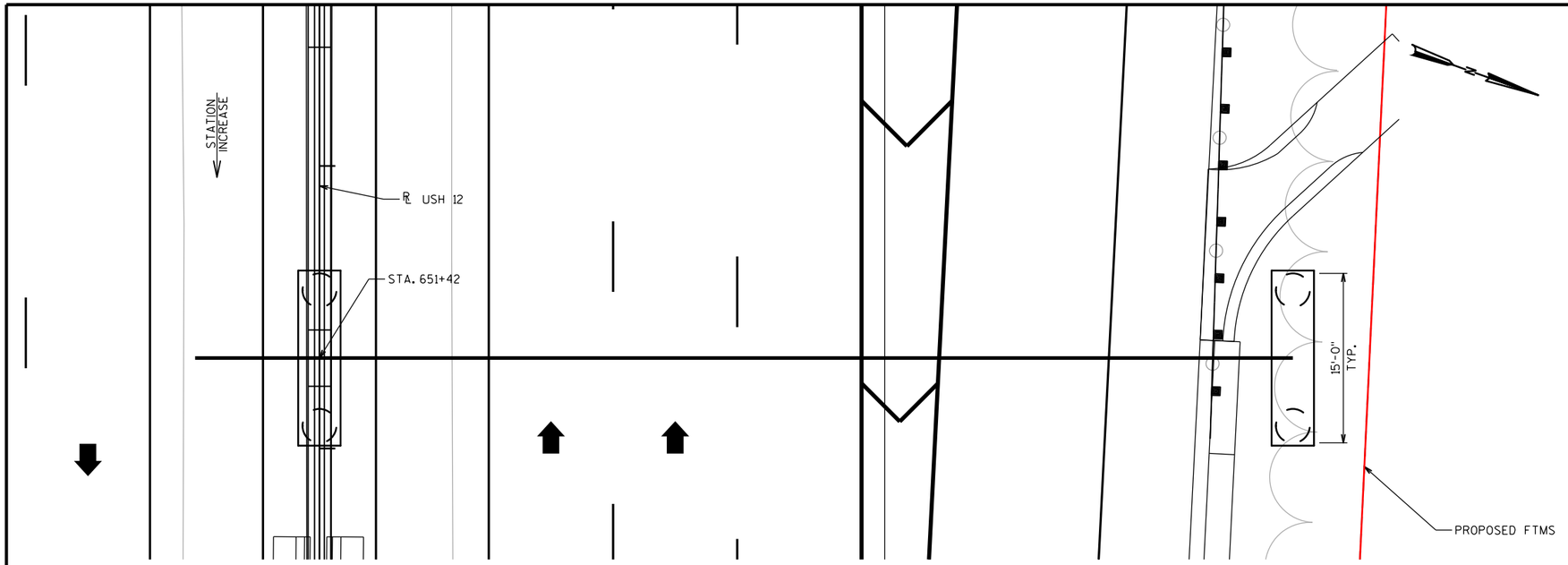
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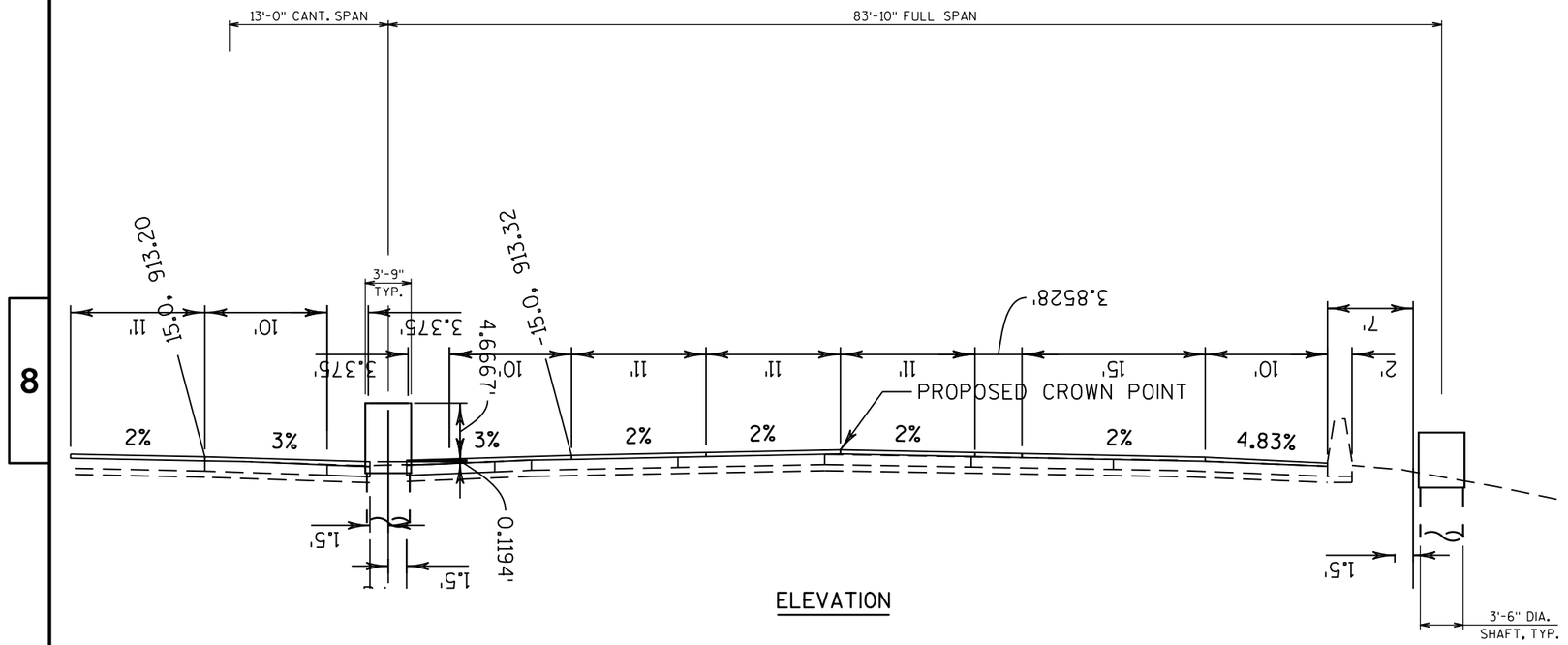
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STATE PROJECT NUMBER
1206-06-79



PLAN



ELEVATION

8

8

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

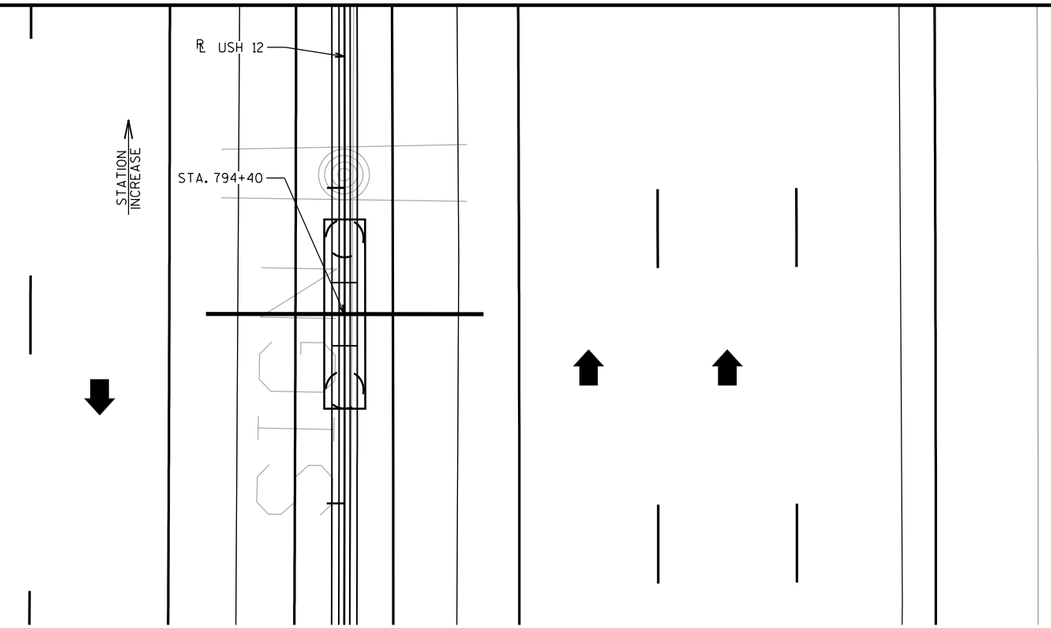
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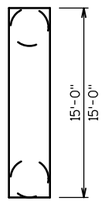
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S-13-2034

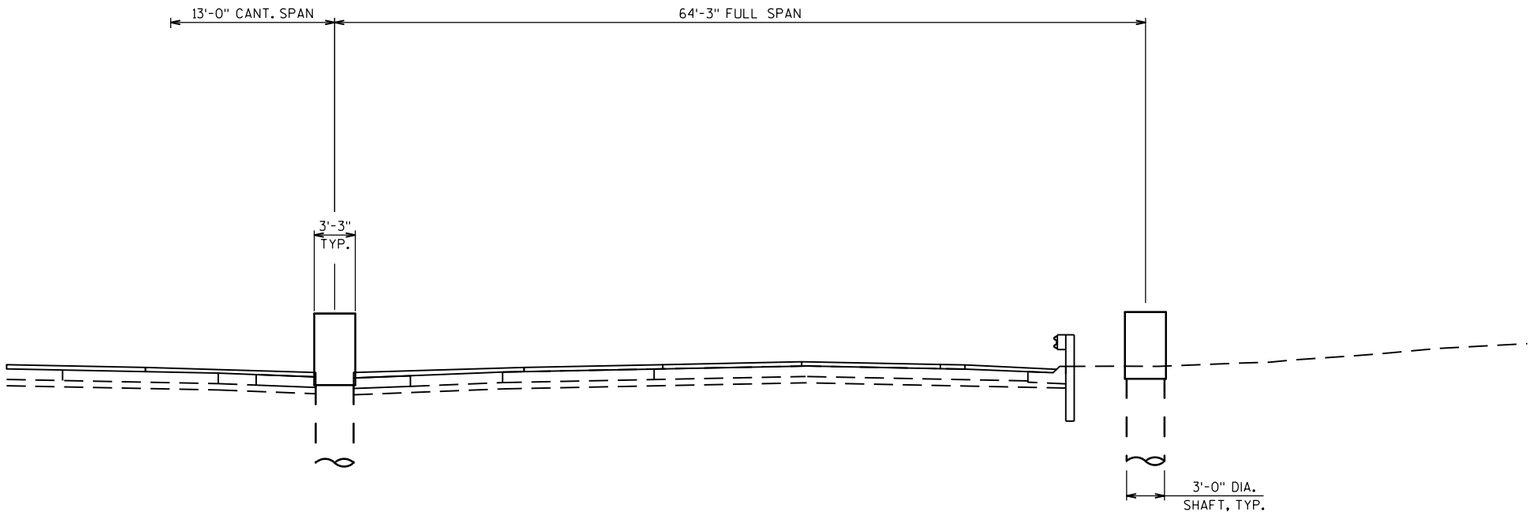
SHEET 3 OF 6

STATE PROJECT NUMBER
1206-06-79



PLAN





ELEVATION

8

8

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S-13-20XX

DRAWN BY	PLANS CK'D.

GENERAL LAYOUT
S-13-20XX

SHEET 4 OF 6

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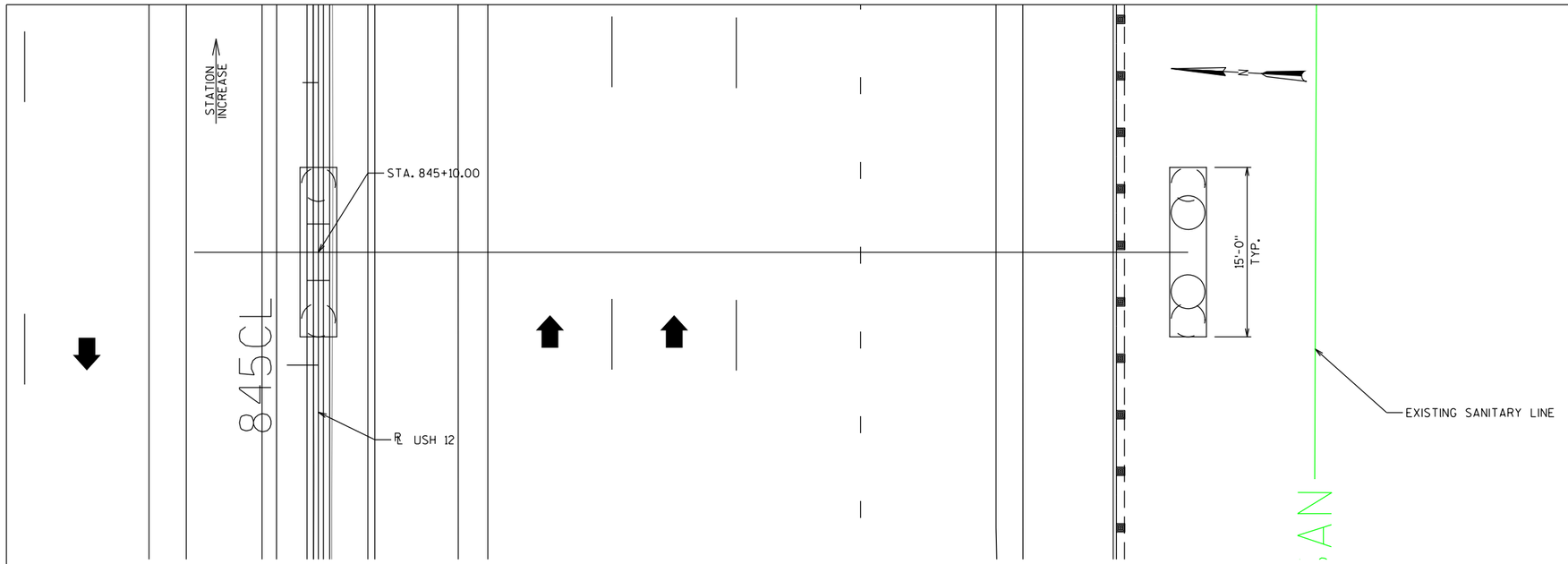
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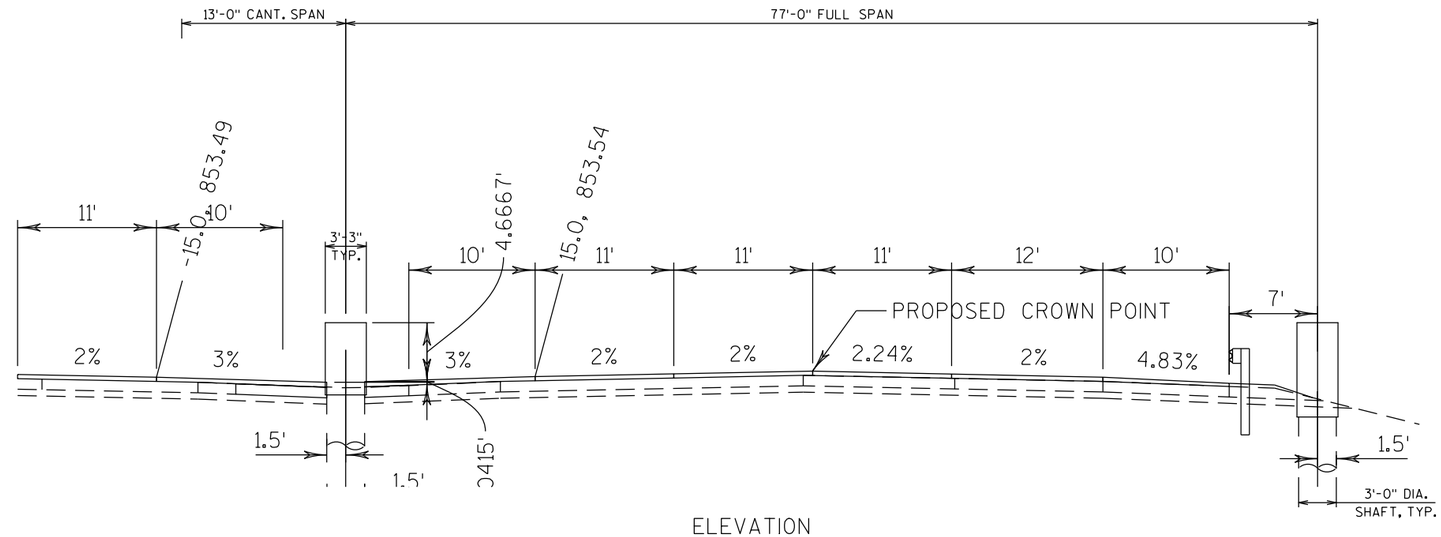
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STATE PROJECT NUMBER
1206-06-79



PLAN



ELEVATION

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1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

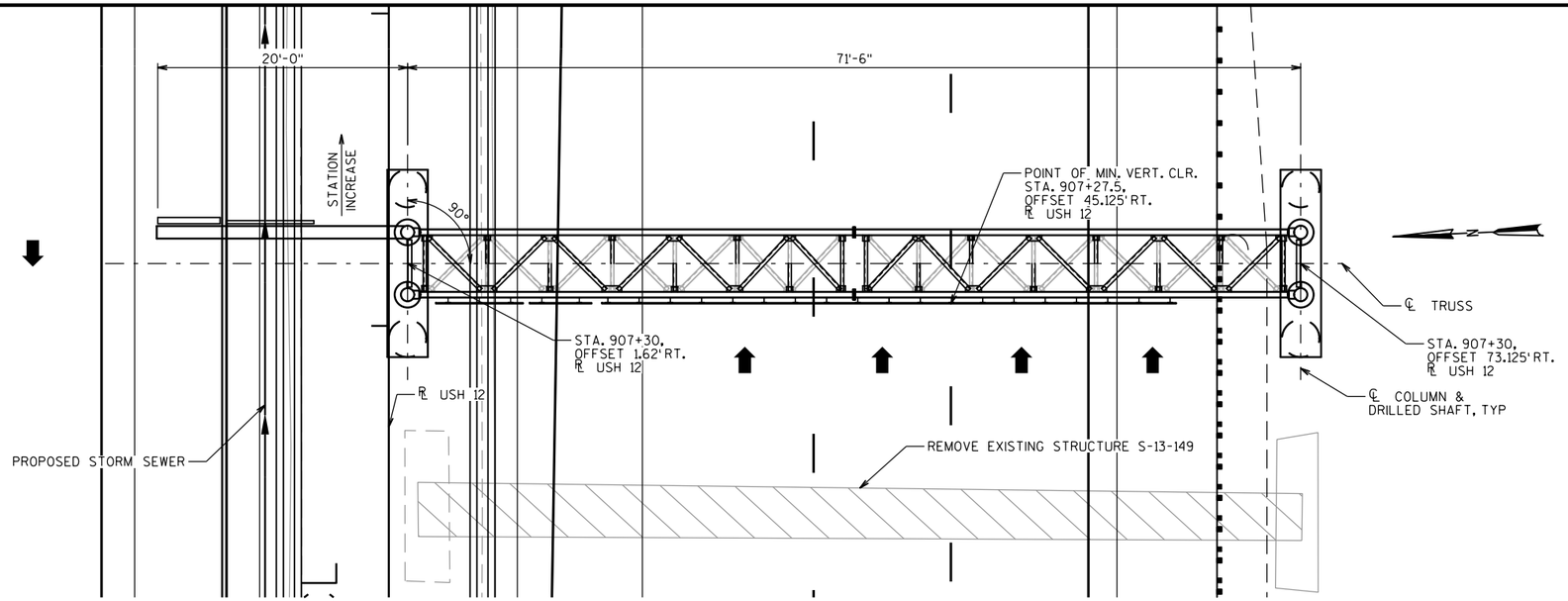
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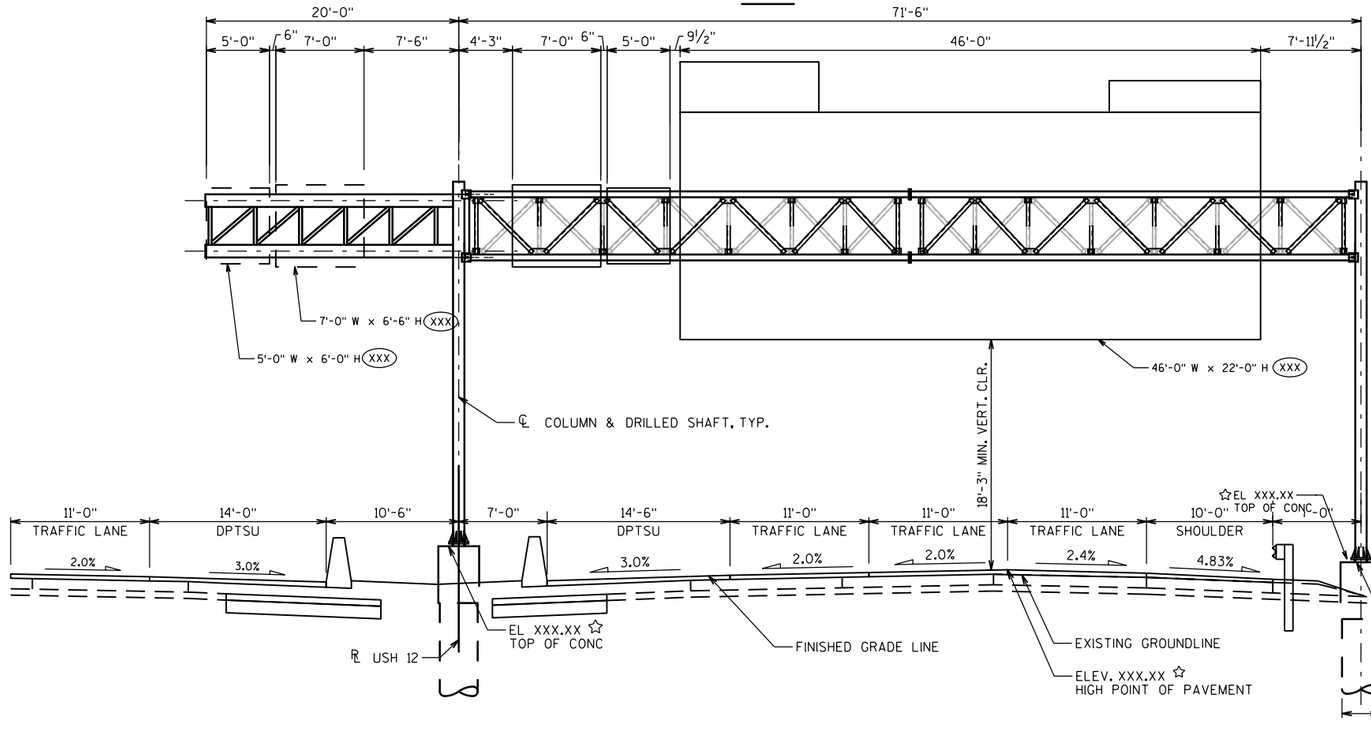
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SHEET 5 OF 6

STATE PROJECT NUMBER
1206-06-79

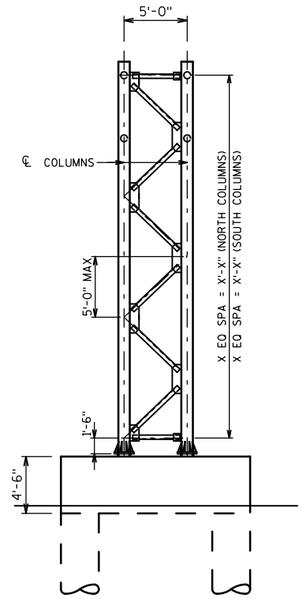


PLAN



ELEVATION

STA 907+30
(LOOKING UPSTATION AT FRONT OF SIGN)



END VIEW

LOOKING NORTH

NOTE

POINT OF MIN VERTICAL CLEARANCE
STA XXX+XX.XX, XX.XX' (LEFT/RIGHT)
EL XXX.XX

LEGEND

☆ ELEVATIONS GIVEN ALONG ℄ TRUSS

(XXX) SIGN NUMBERS (PERMANENT SIGNING PLAN)

8

8

1078 PLANS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

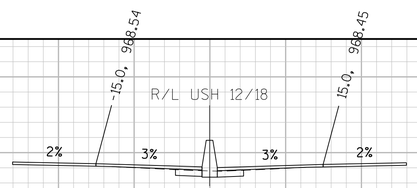
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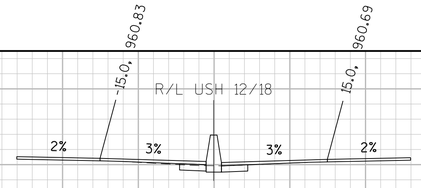
GENERAL LAYOUT
S-13-2036

SHEET 6 OF 6

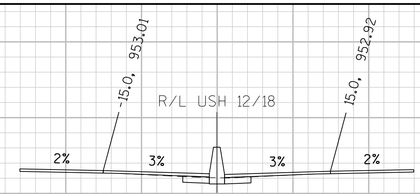
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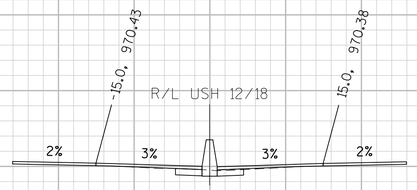
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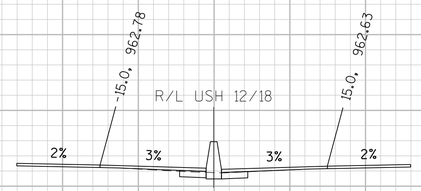
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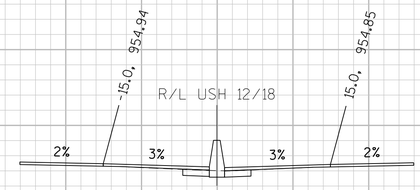
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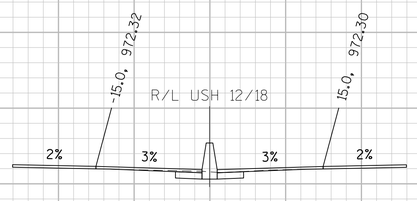
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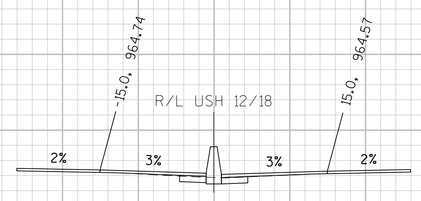
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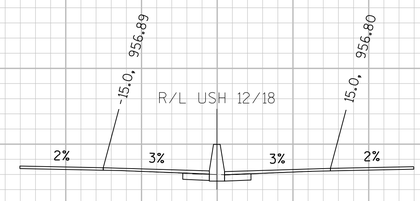
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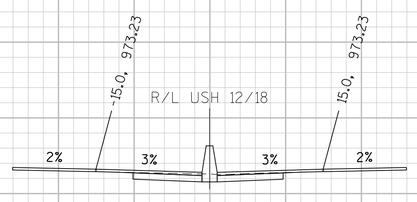
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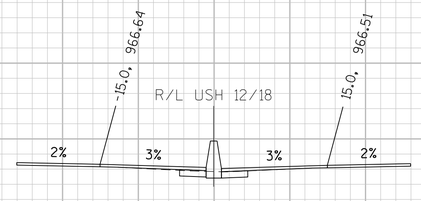
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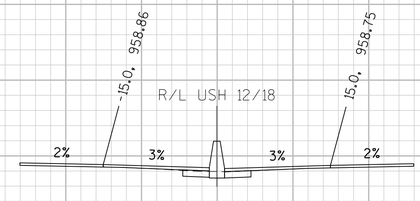
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515+76



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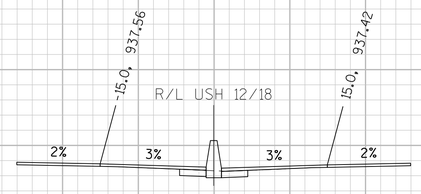
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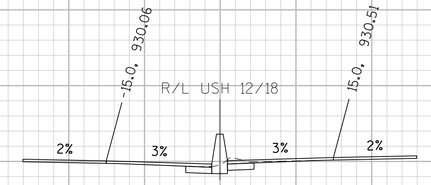
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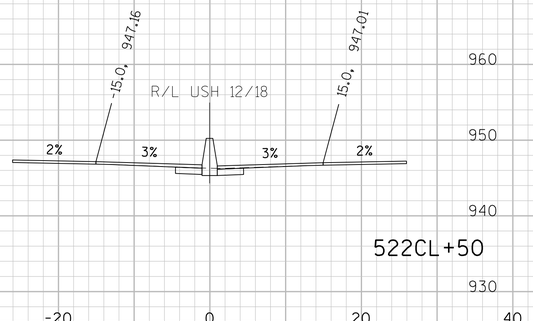
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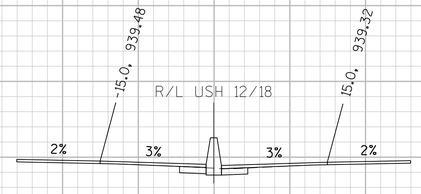
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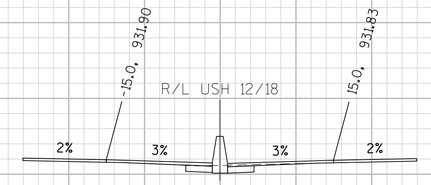
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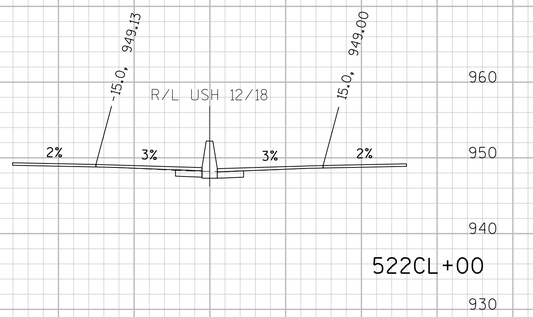
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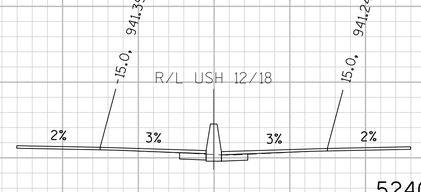
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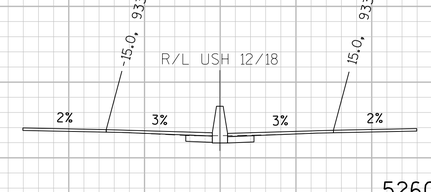
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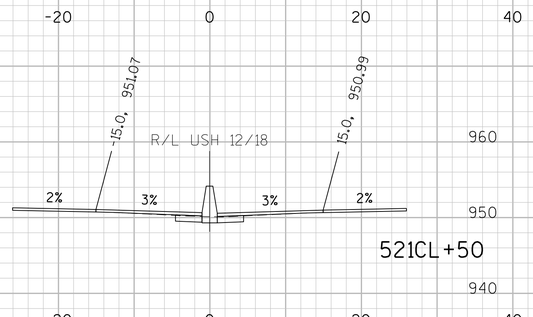
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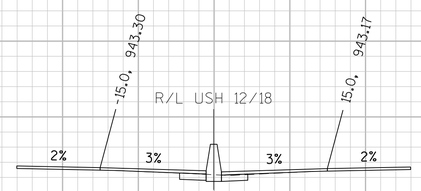
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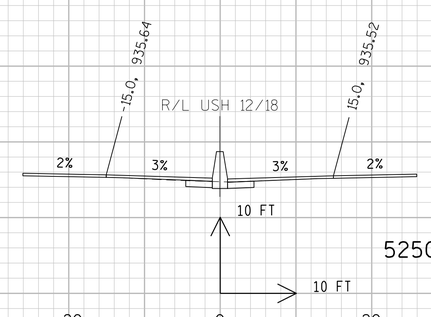
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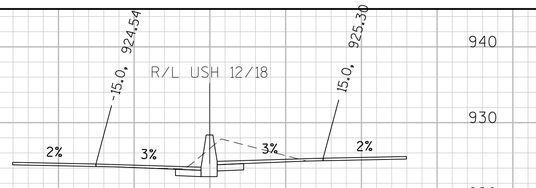
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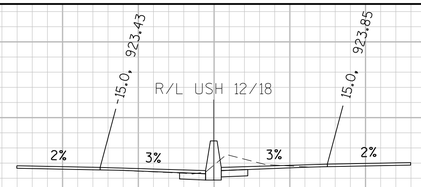
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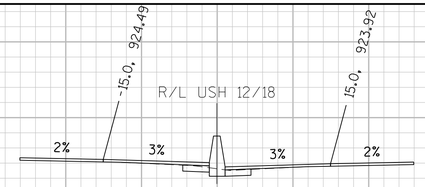
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



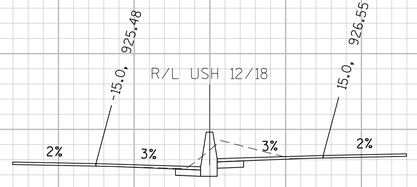
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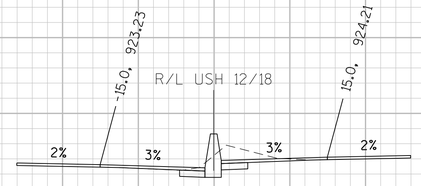
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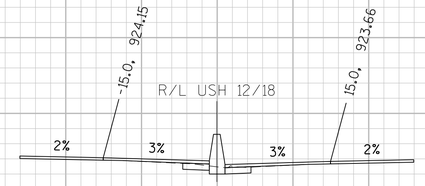
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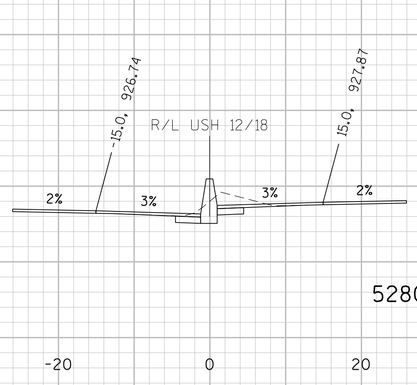
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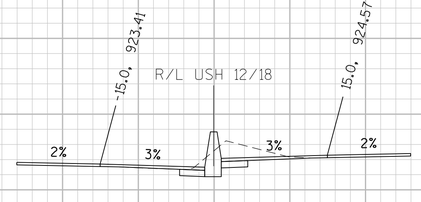
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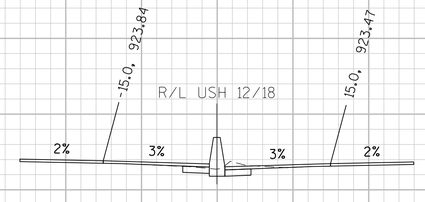
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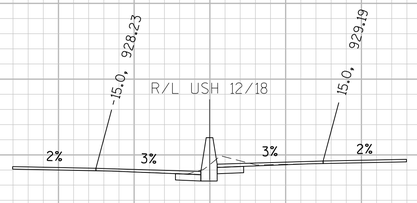
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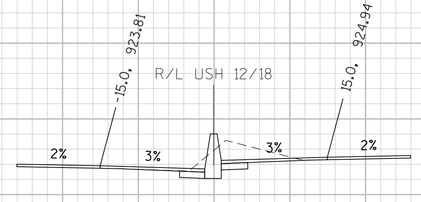
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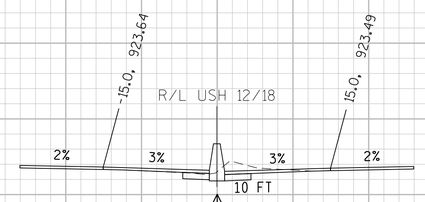
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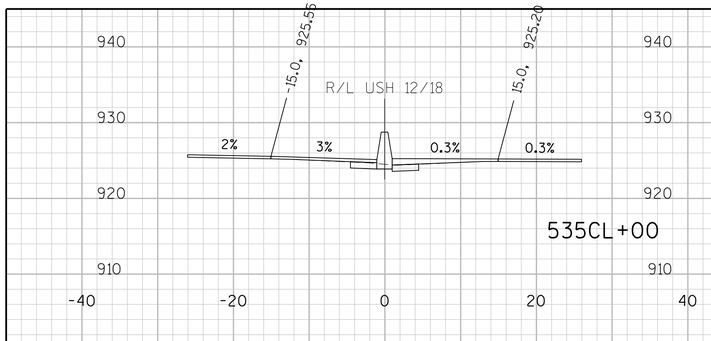
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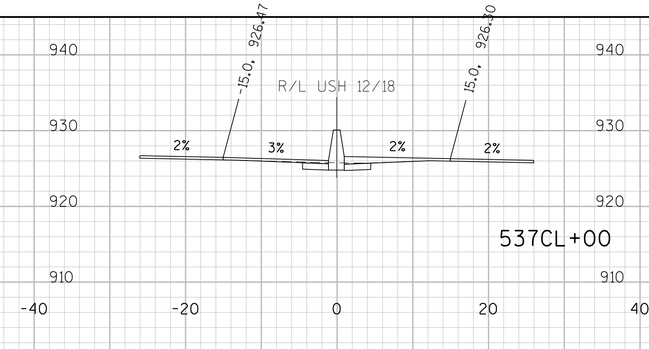
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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

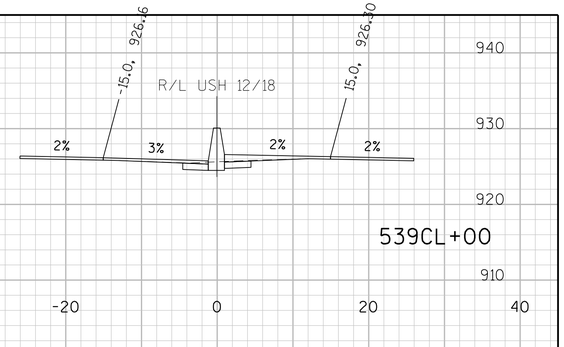
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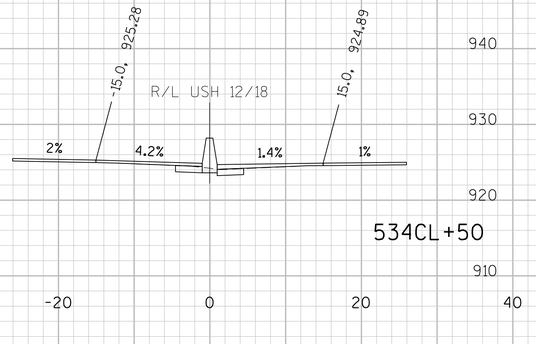
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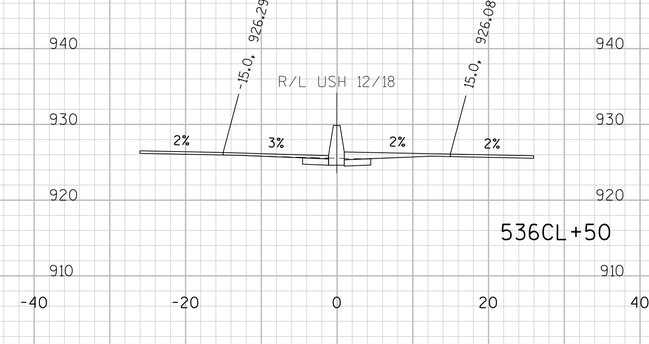
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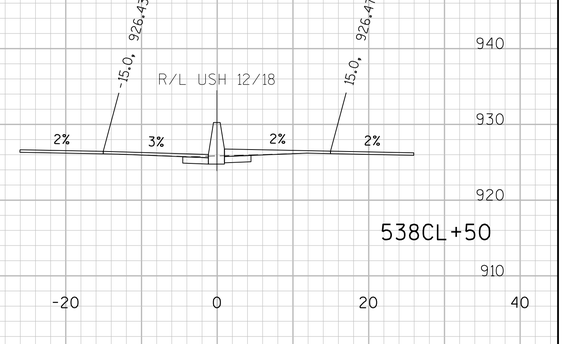
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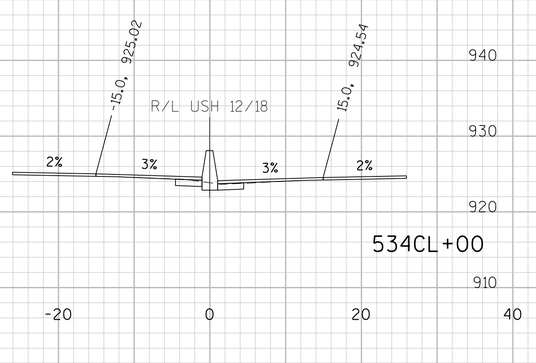
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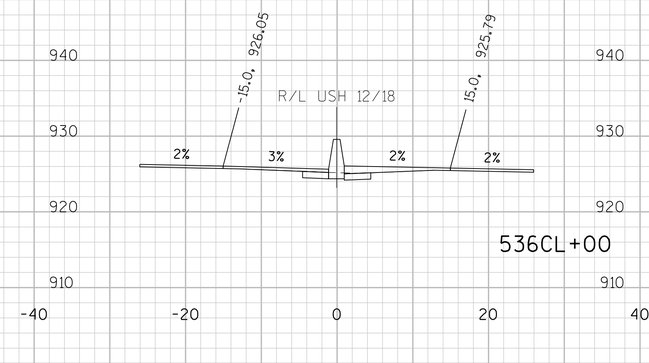
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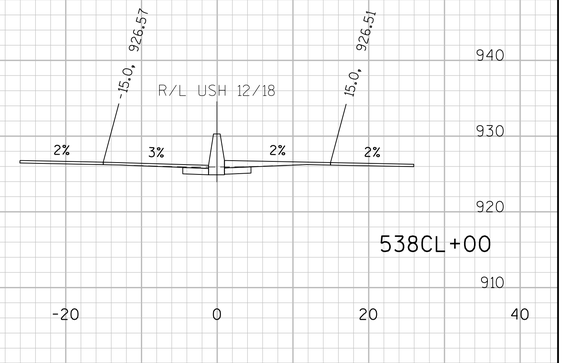
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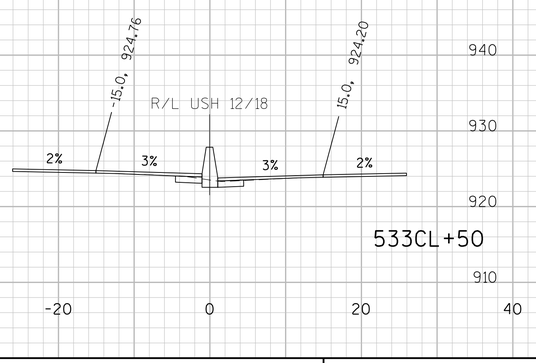
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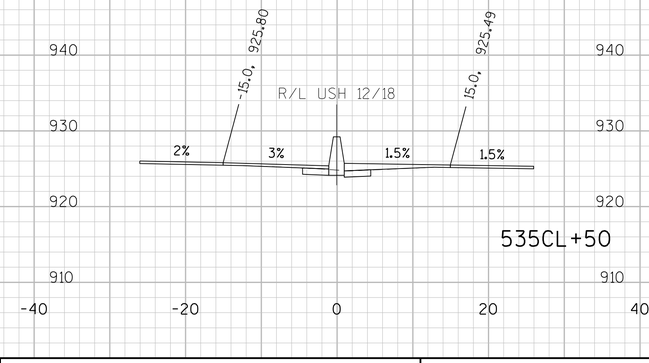
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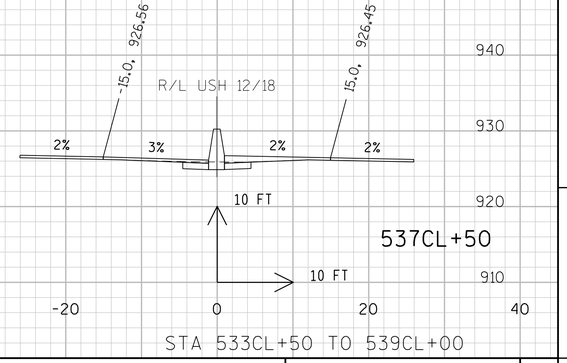
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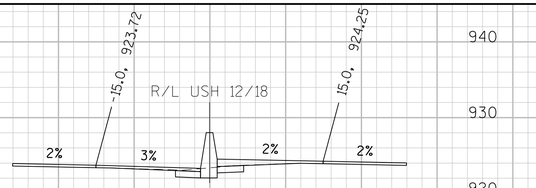
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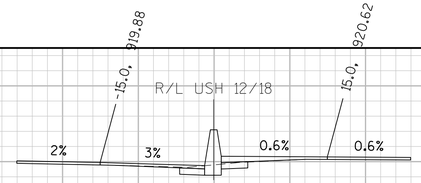
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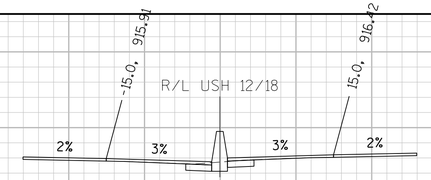
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



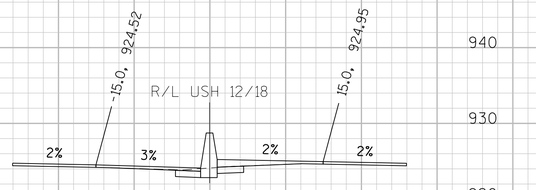
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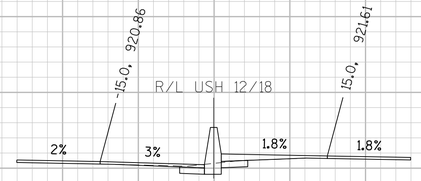
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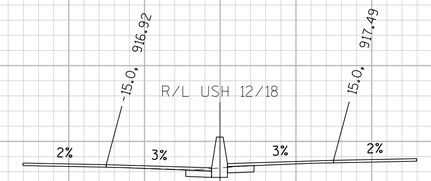
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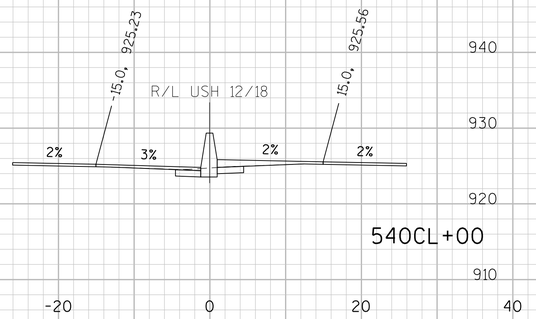
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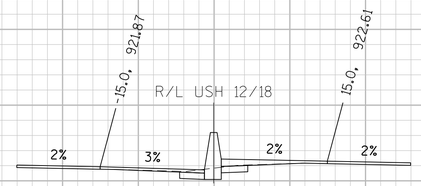
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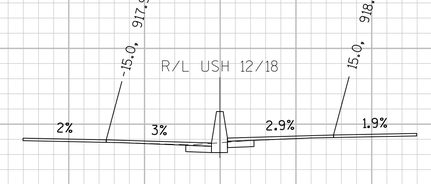
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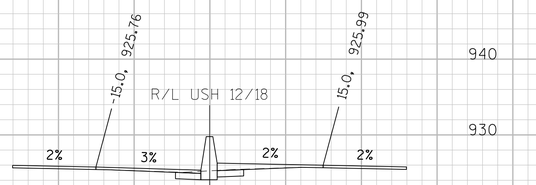
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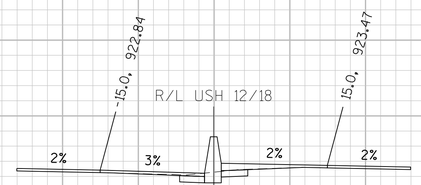
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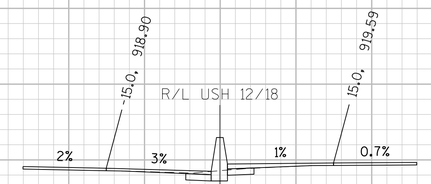
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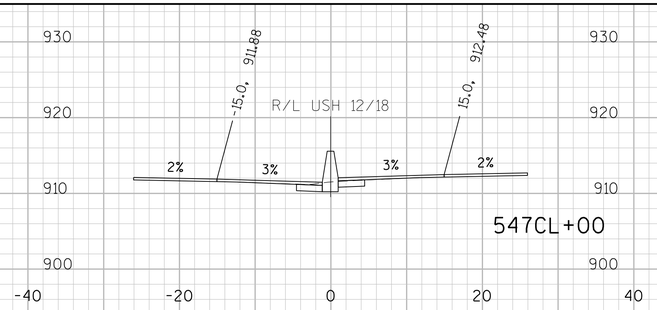
STA 539CL+50 TO 545CL+00

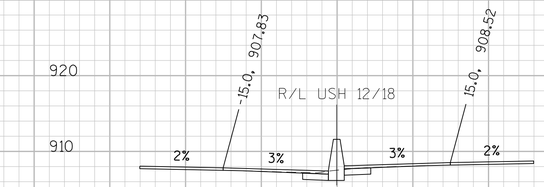
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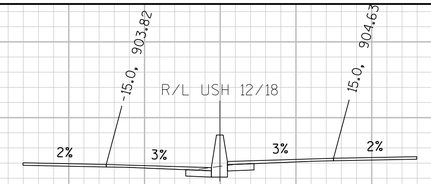
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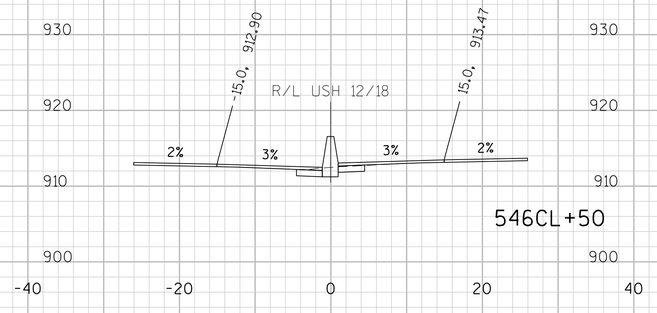
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

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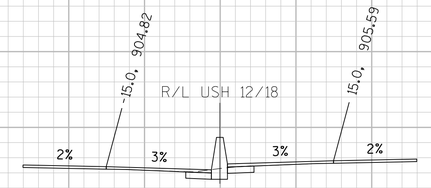


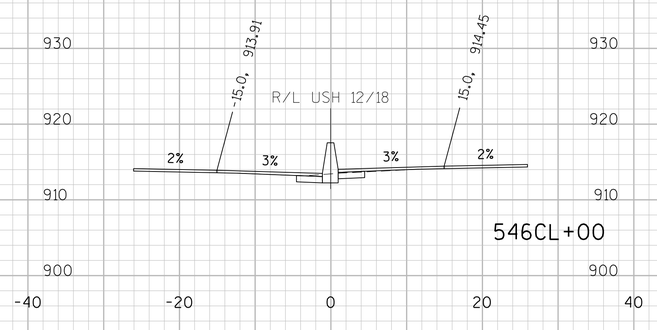


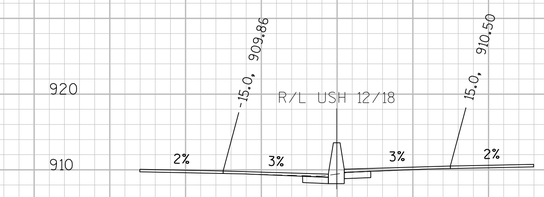


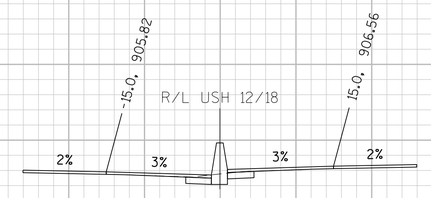


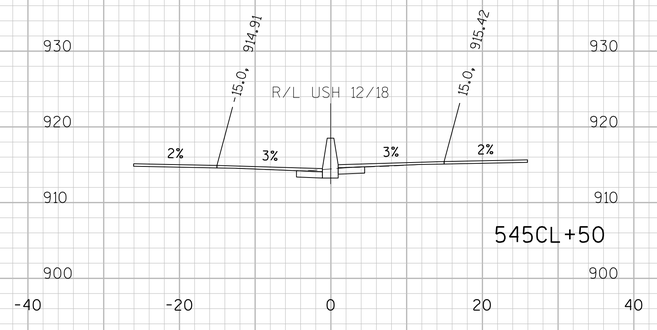


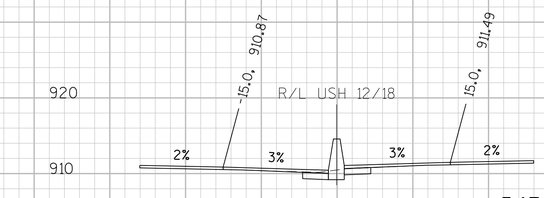


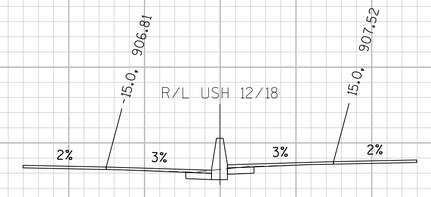












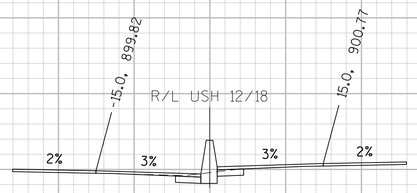
STA 545CL+50 TO 551CL+00

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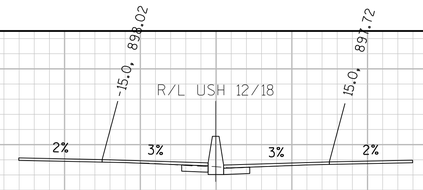
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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

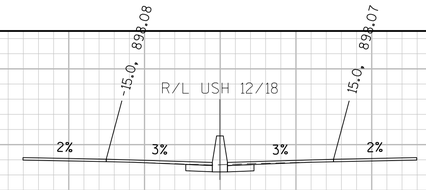
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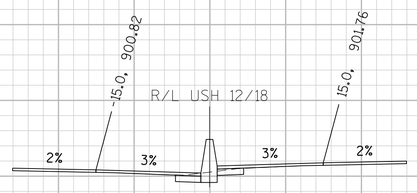
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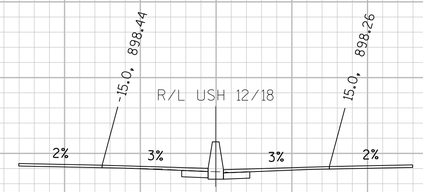
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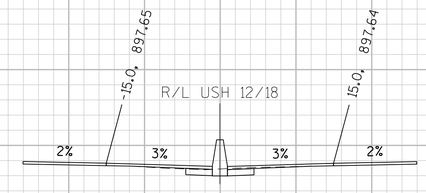
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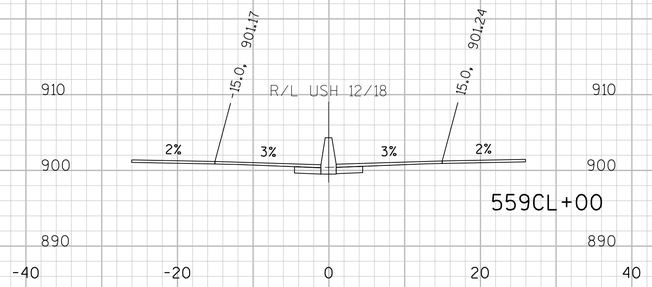
STA 551CL+50 TO 557CL+00

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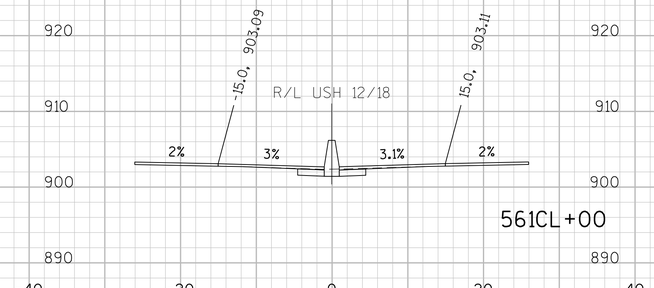
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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

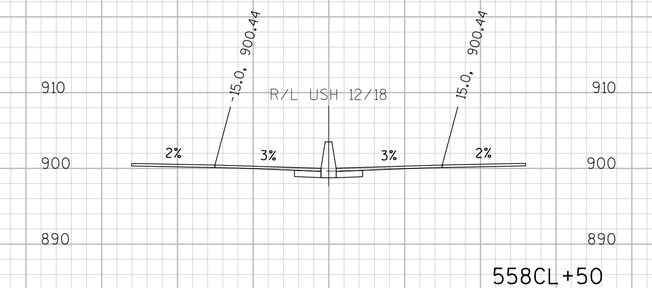
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PLOT DATE : 2/17/2020 9:46:57 AM PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 10:1
WISDOT/CADDS SHEET 21



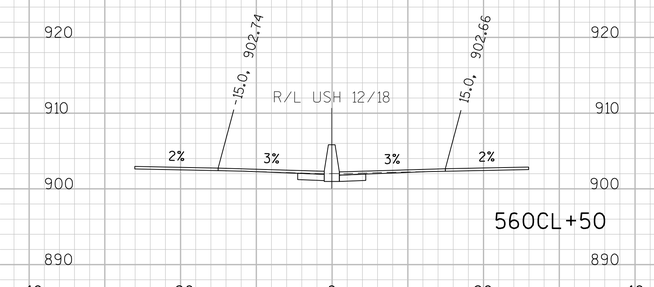
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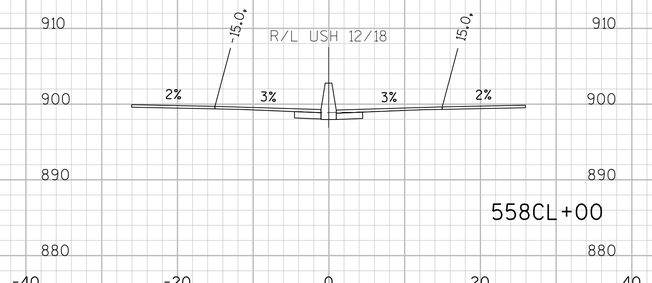
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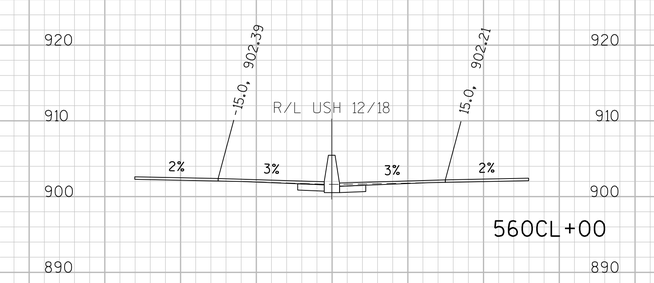
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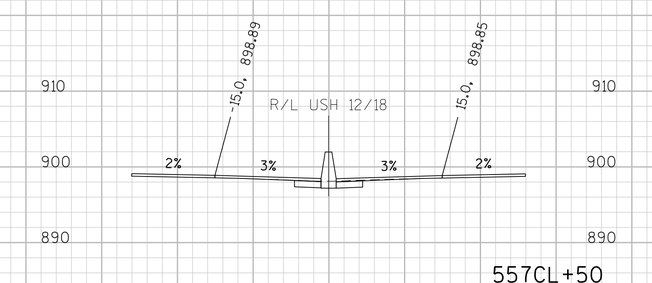
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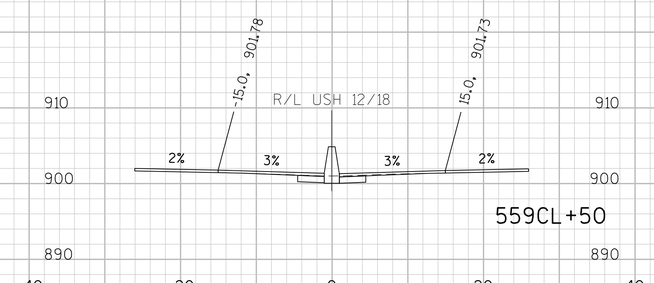
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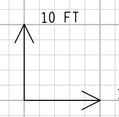


557CL+50



559CL+50

TODD DRIVE BRIDGE
B-13-263 (EB & WB)



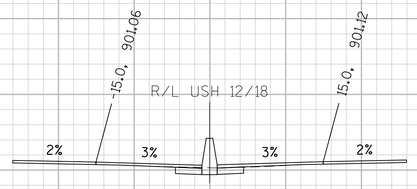
STA 557CL+50 TO 561CL+00

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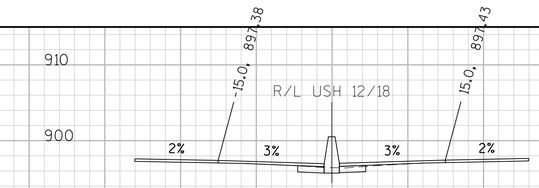
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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

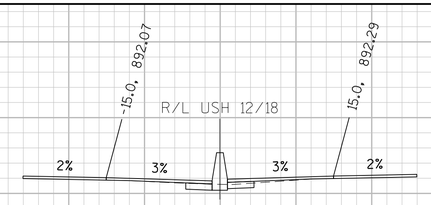
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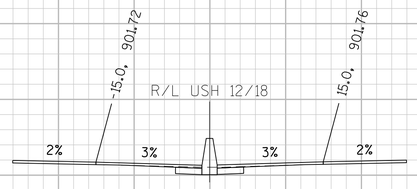
564CL+50



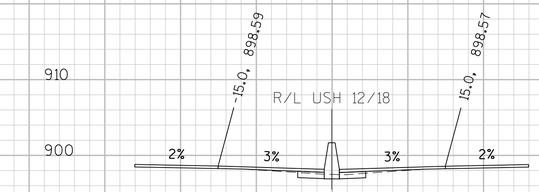
566CL+50



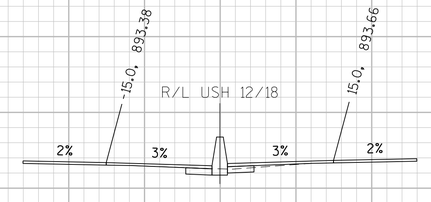
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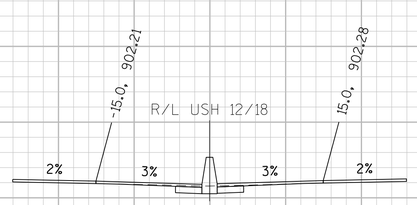
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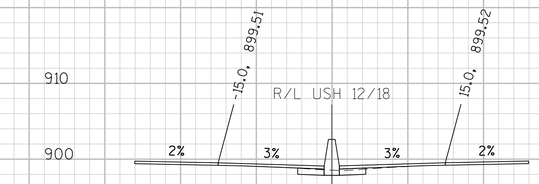
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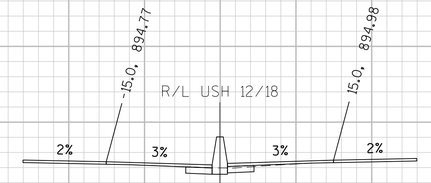
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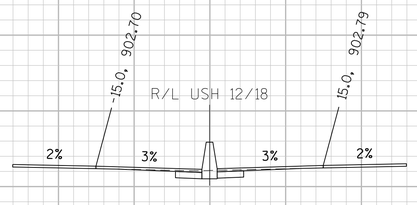
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565CL+50



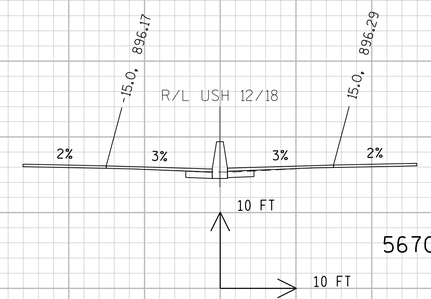
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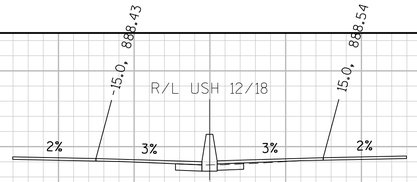
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STA 563CL+00 TO 568CL+50

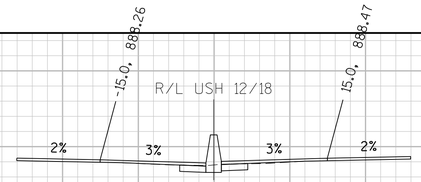
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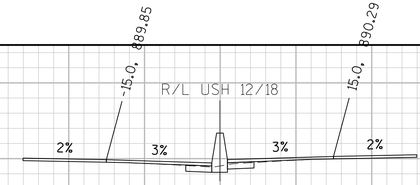
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



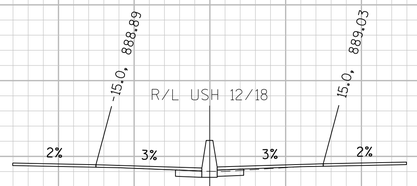
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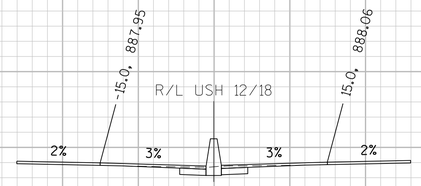
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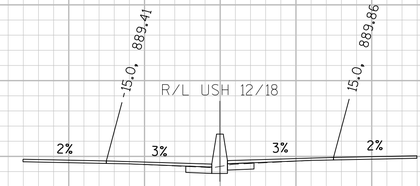
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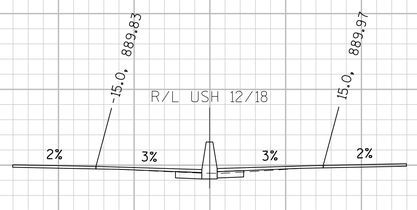
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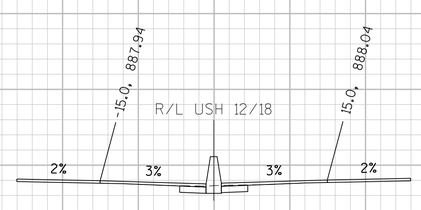
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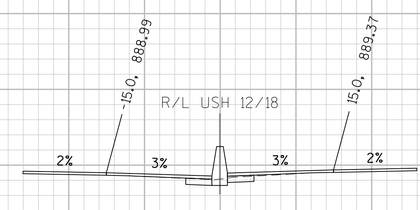
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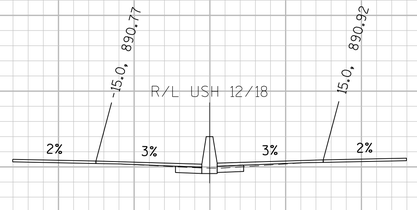
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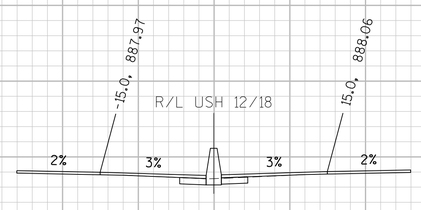
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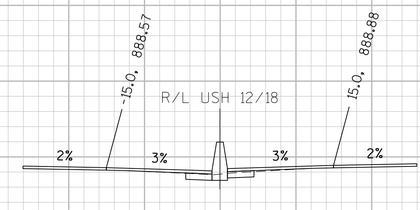
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569CL+00



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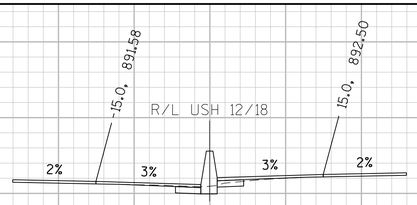
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STA 569CL+00 TO 574CL+50

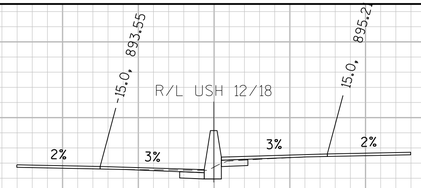
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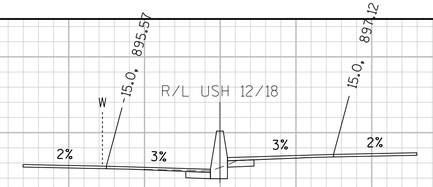
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



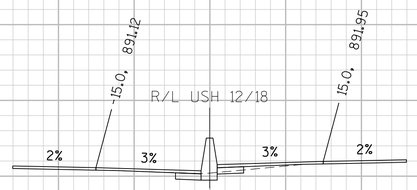
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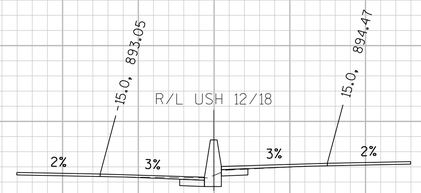
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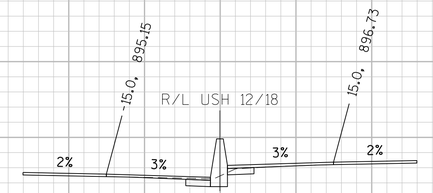
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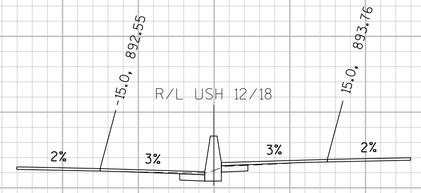


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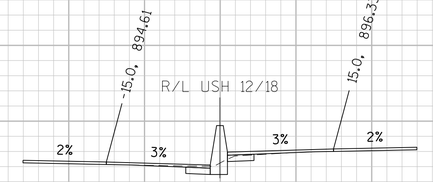


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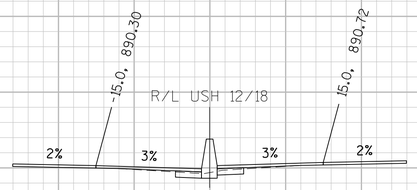
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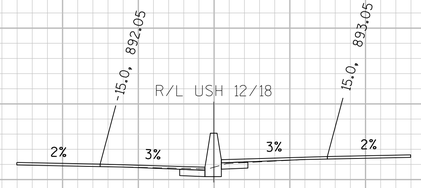
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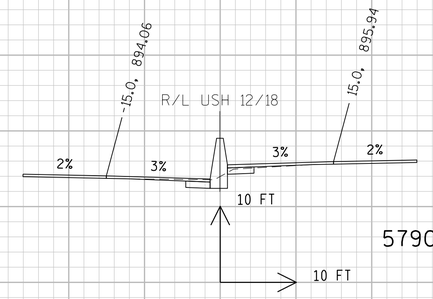
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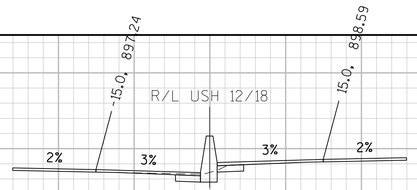
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STA 575CL+00 TO 580CL+50

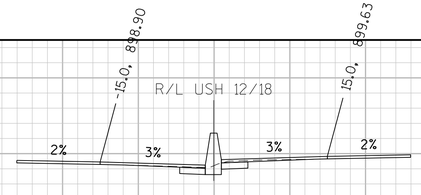
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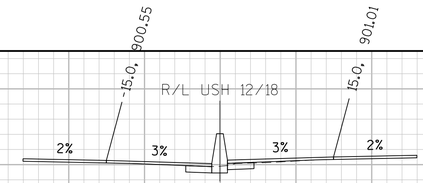
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



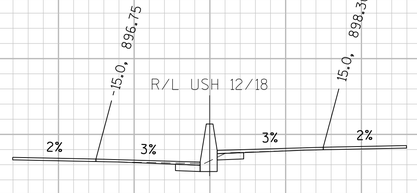
582CL+50



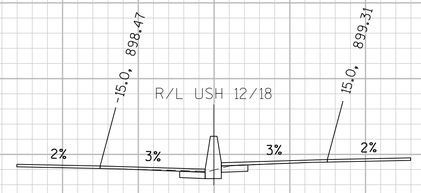
584CL+50



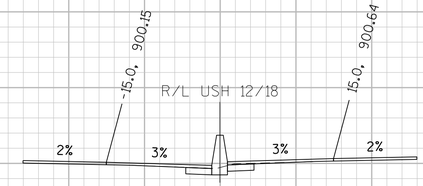
586CL+50



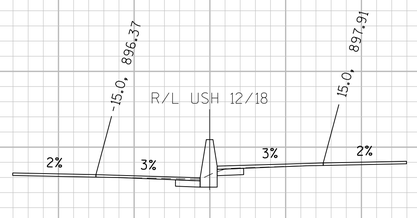
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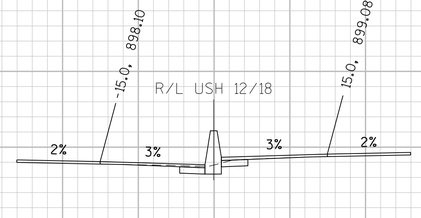
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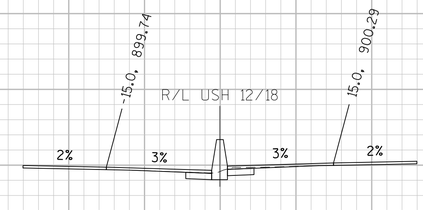
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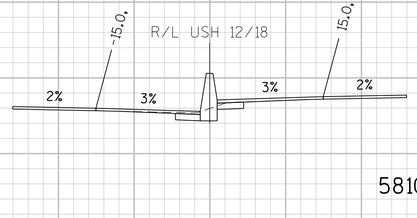
581CL+50



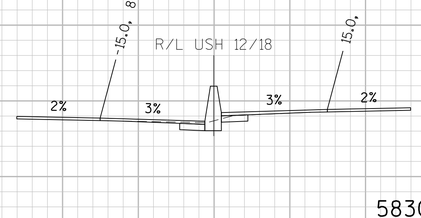
583CL+50



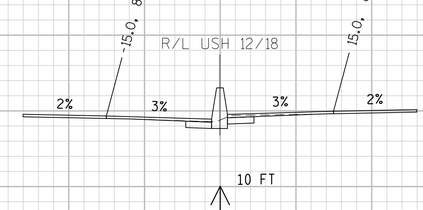
585CL+50



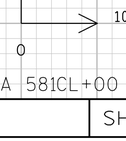
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583CL+00



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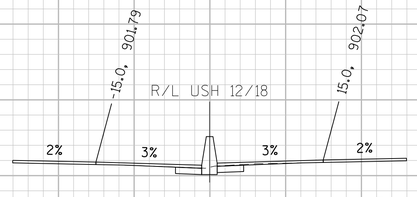


STA 581CL+00 TO 586CL+50

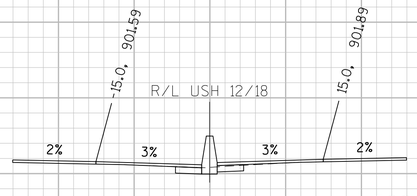
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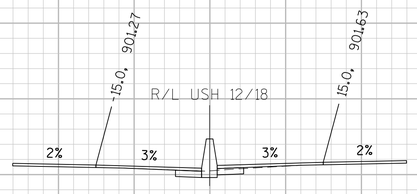
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



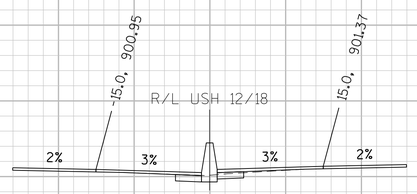
588CL+50



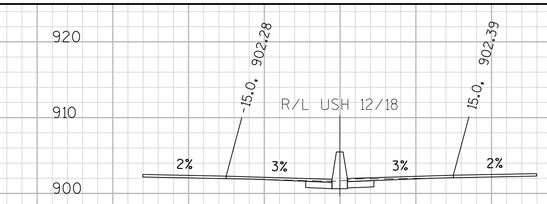
588CL+00



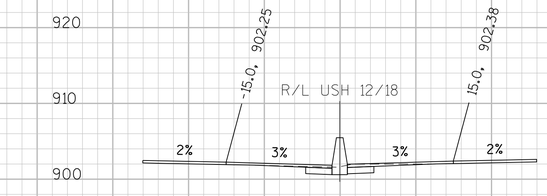
587CL+50



587CL+00



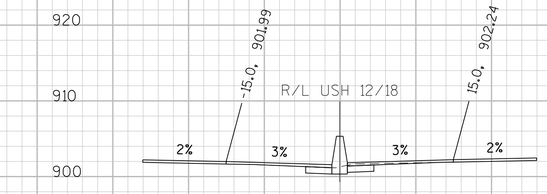
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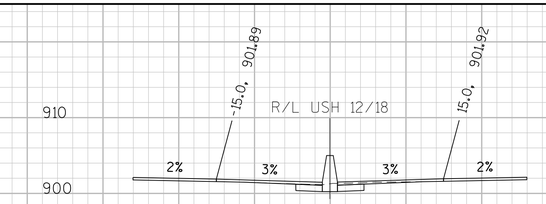
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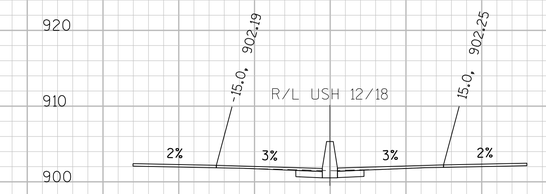
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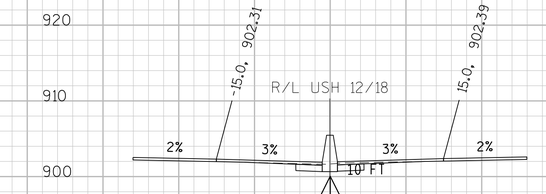
592CL+50



592CL+00



591CL+50



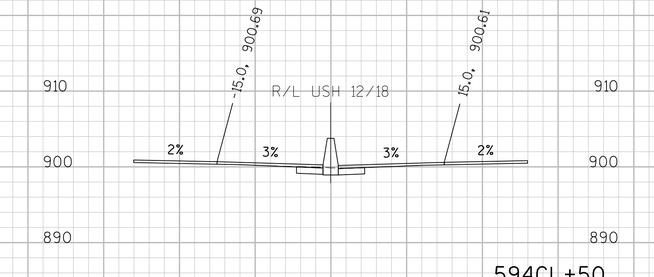
591CL+00

STA 587CL+00 TO 592CL+50

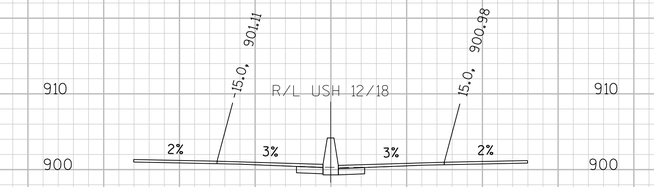
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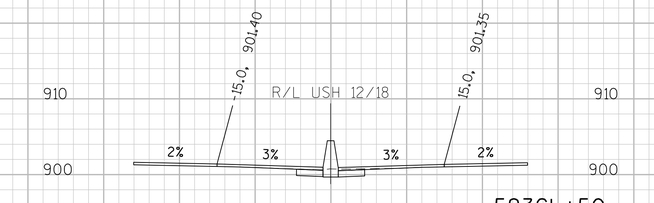
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



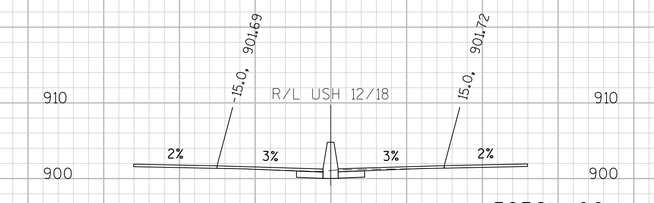
594CL+50



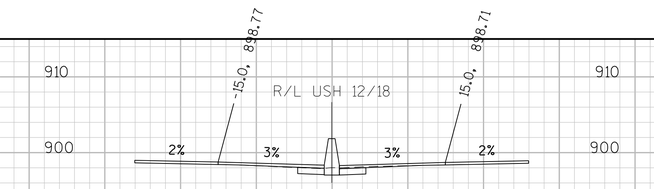
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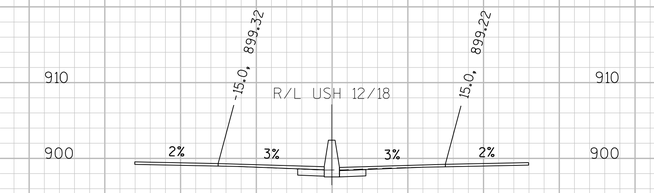
593CL+50



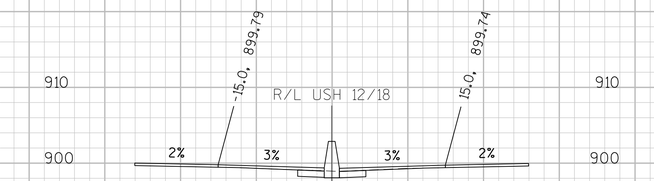
593CL+00



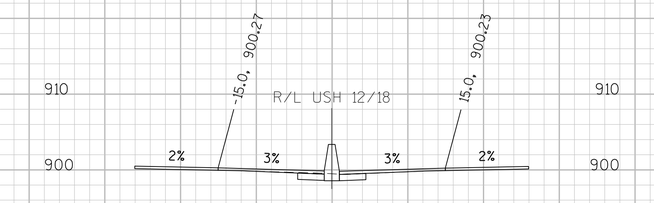
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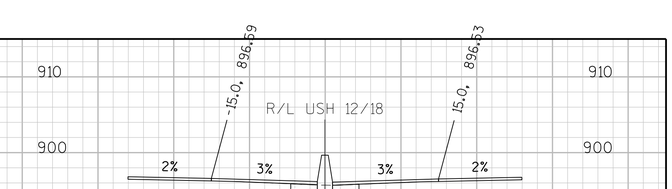
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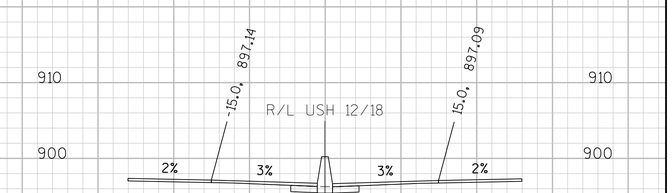
595CL+50



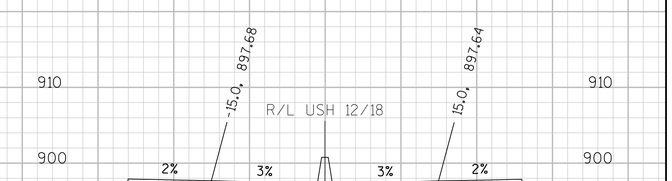
595CL+00



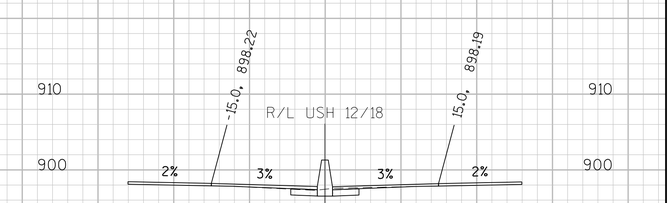
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598CL+00



597CL+50



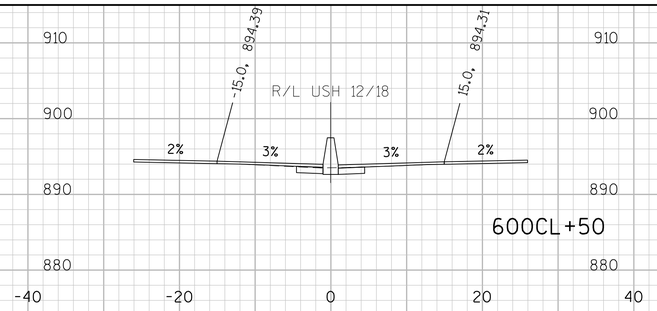
597CL+00

STA 593CL+00 TO 598CL+50

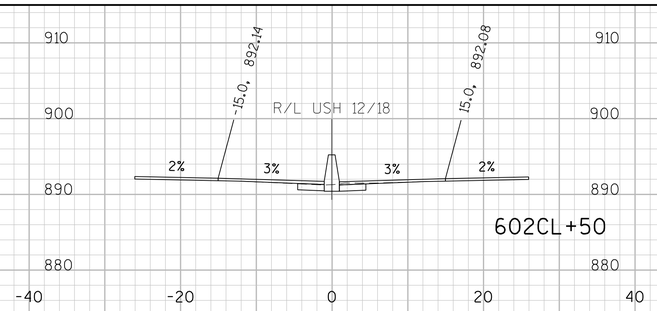
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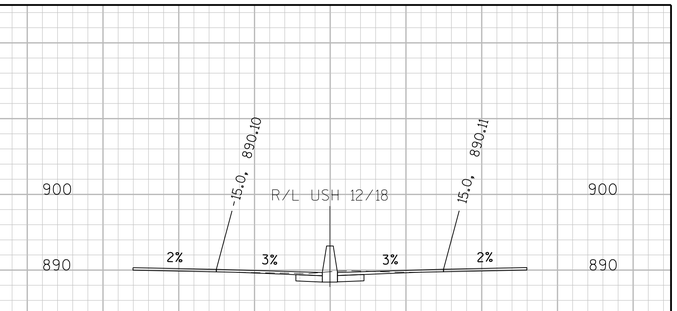
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



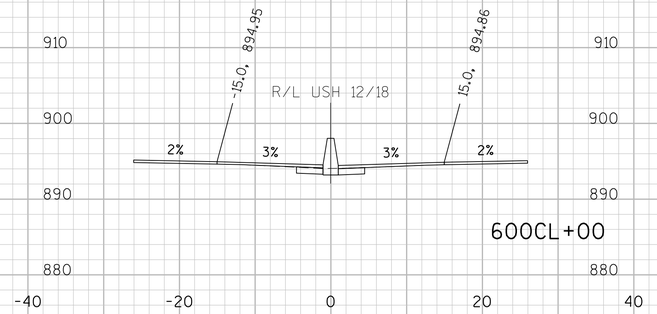
600CL+50



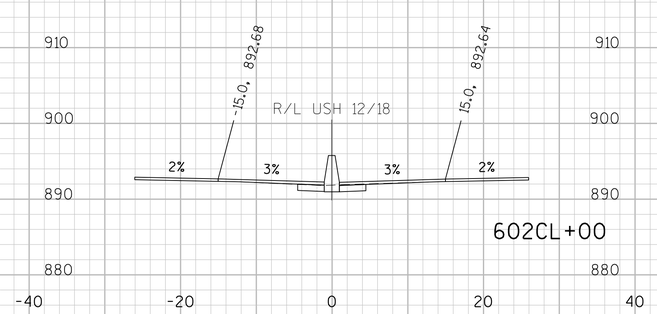
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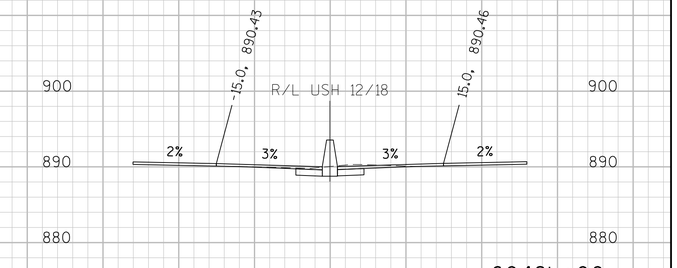
604CL+50



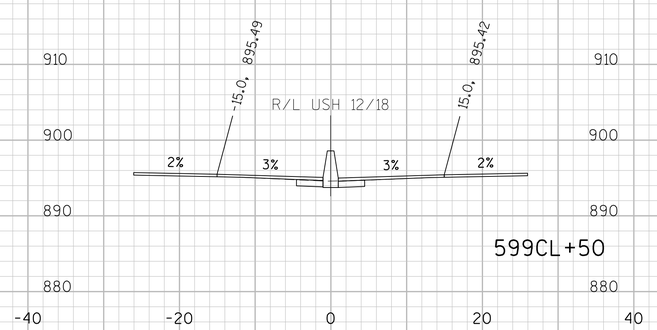
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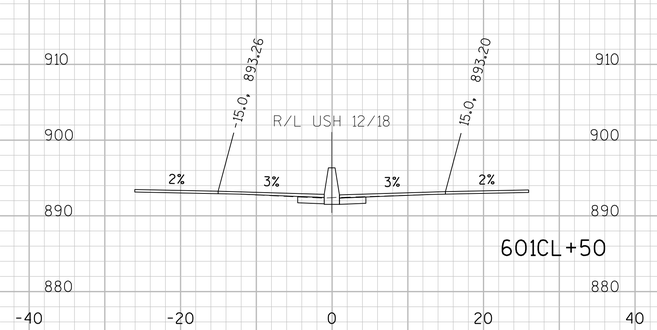
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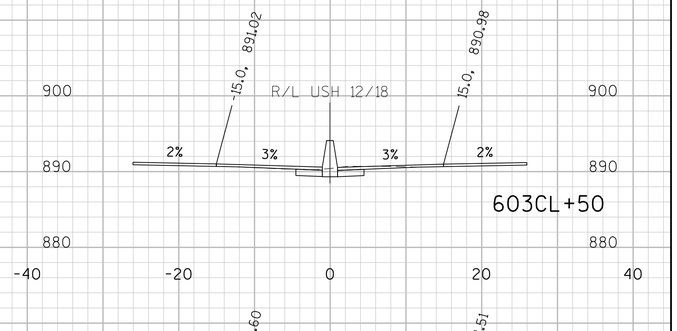
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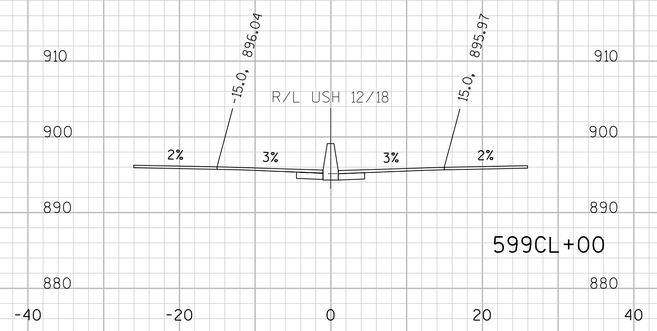
599CL+50



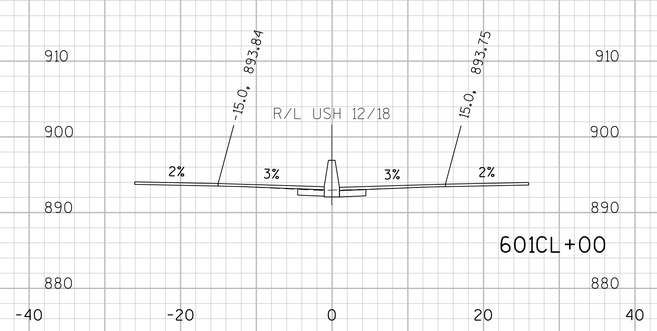
601CL+50



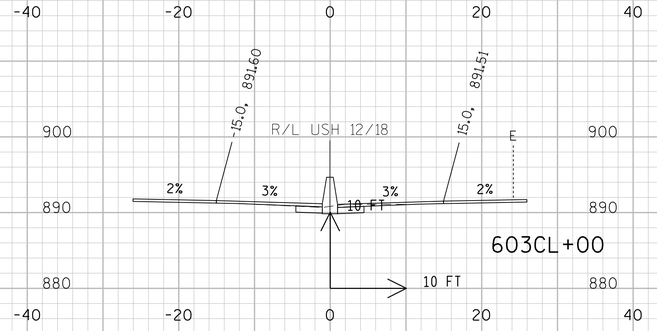
603CL+50



599CL+00



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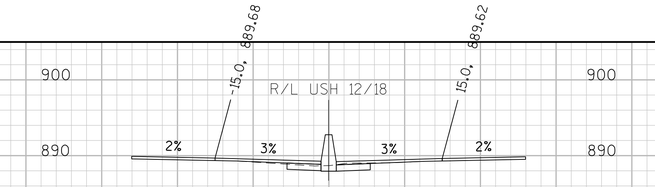


603CL+00

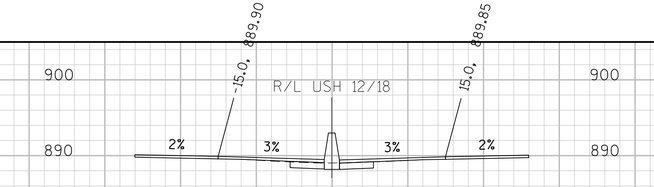
STA 599CL+00 TO 604CL+50

PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

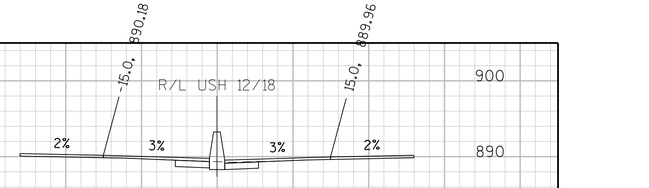
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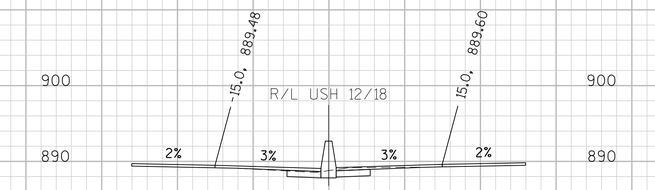
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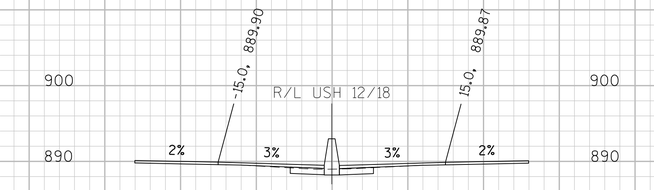
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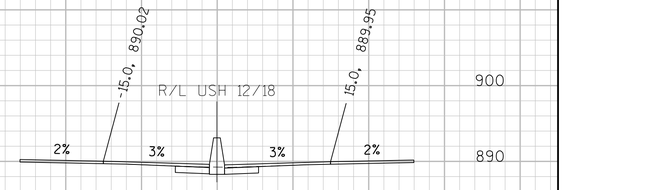
610CL+50



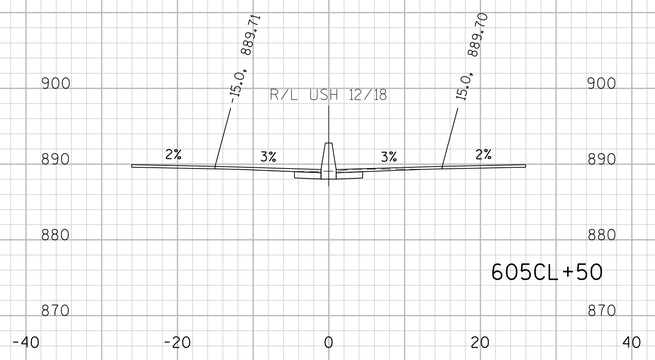
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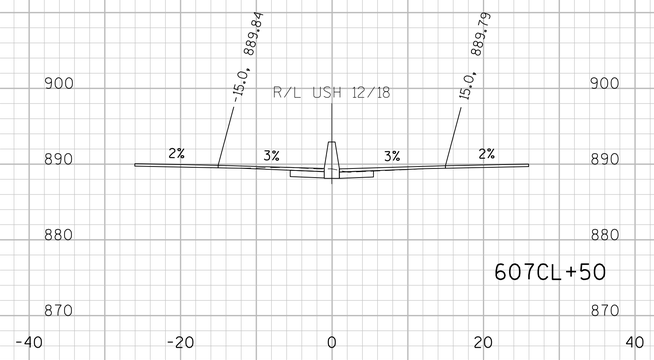
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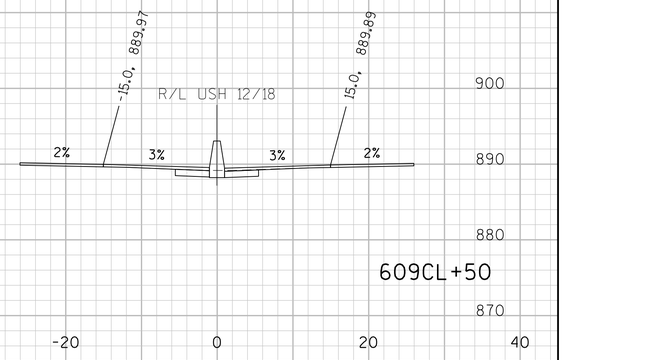
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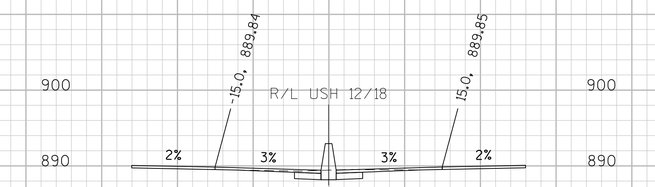
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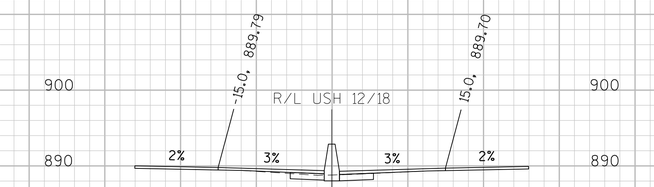
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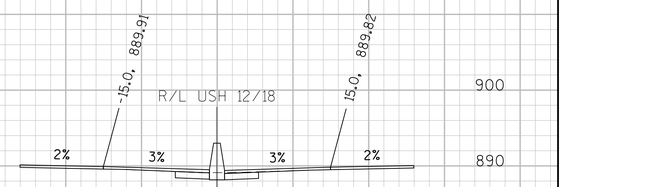
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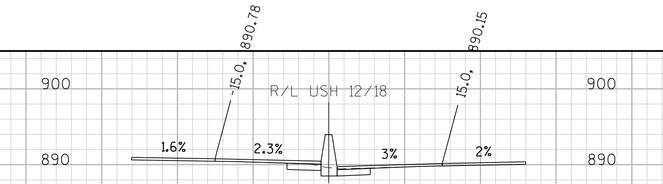
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STA 605CL+00 TO 610CL+50

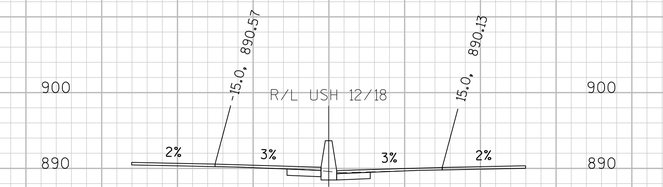
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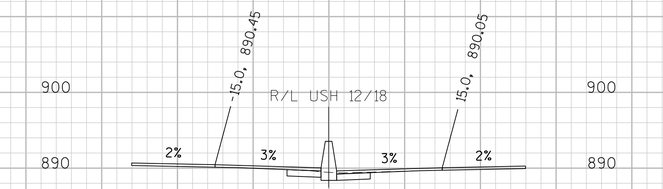
PROJECT NO:1206-04-62	HWY:USH 12	COUNTY:DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



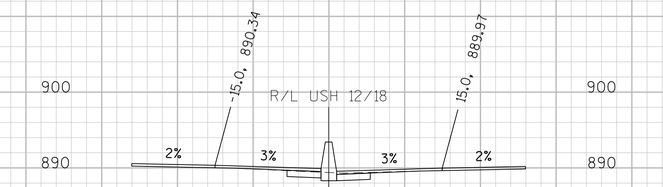
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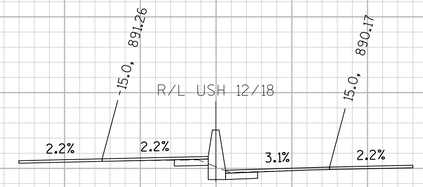
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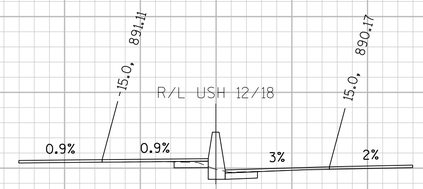
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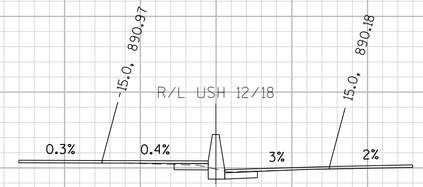
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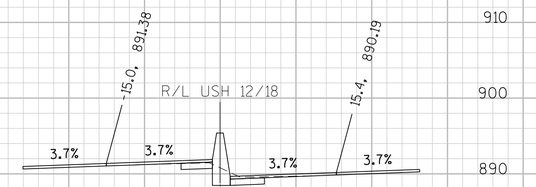
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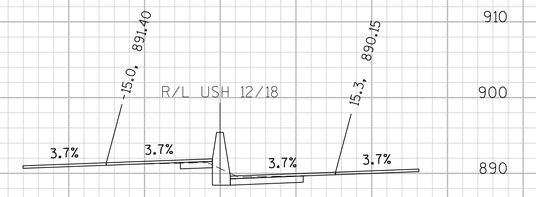
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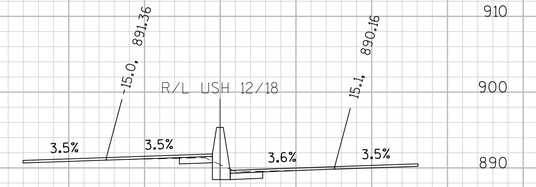
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615CL+50



615CL+00



614CL+50

STA 611CL+00 TO 615CL+50

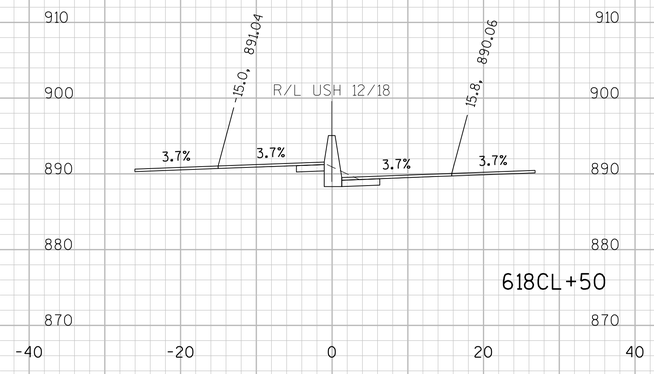
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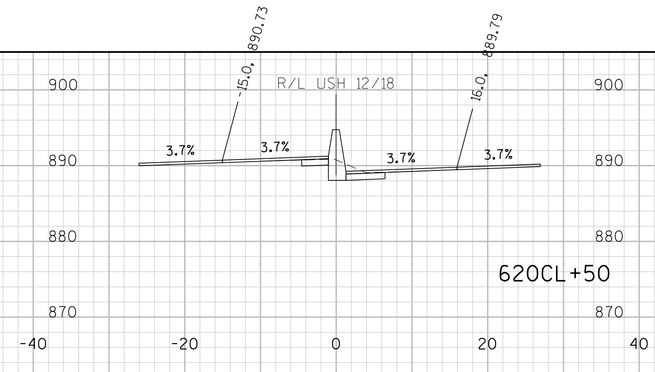
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



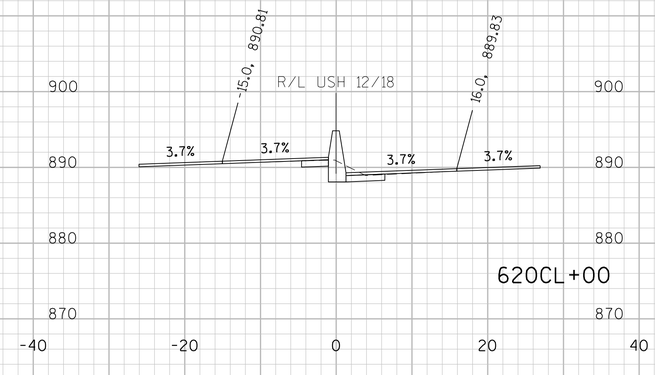
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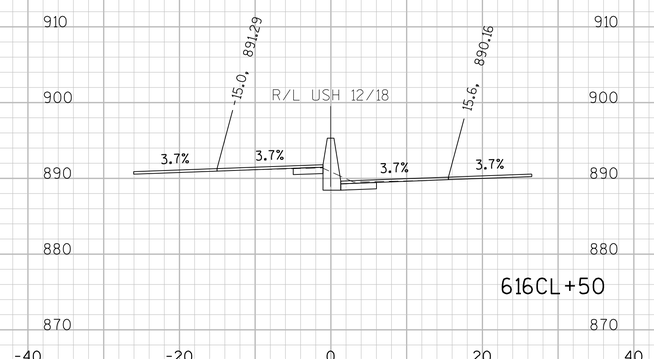
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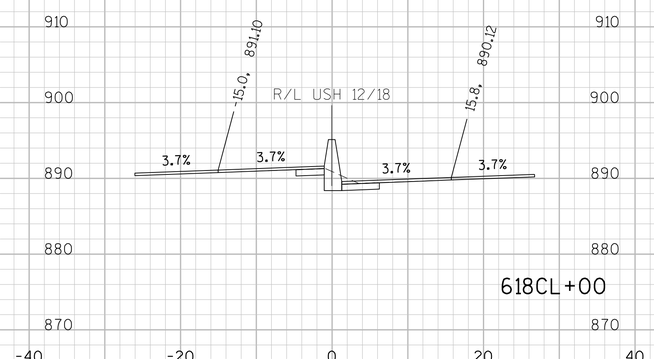
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620CL+00



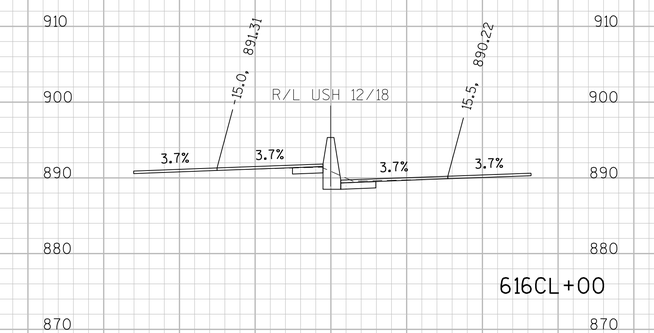
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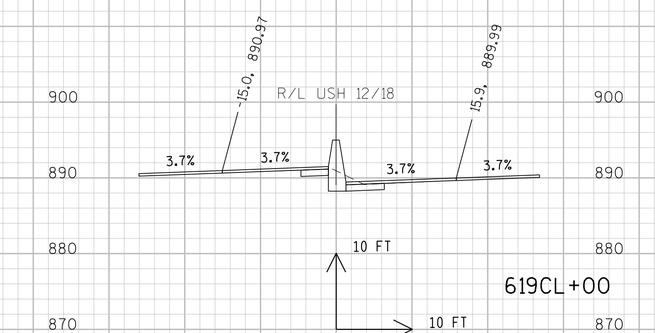
619CL+50



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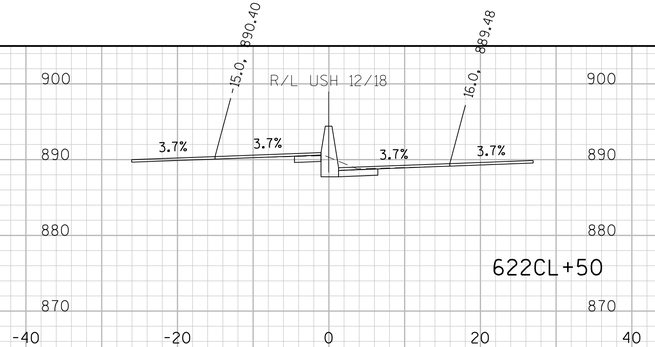
619CL+00

STA 616CL+00 TO 620CL+50

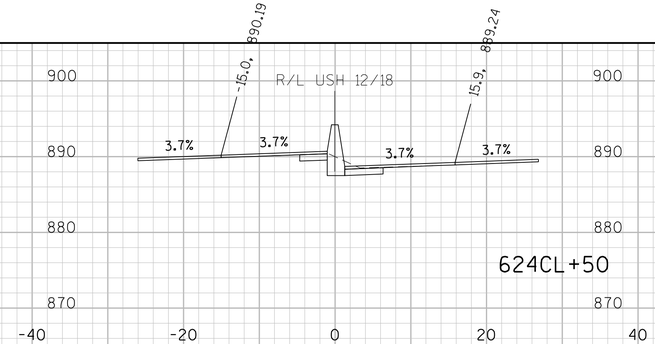
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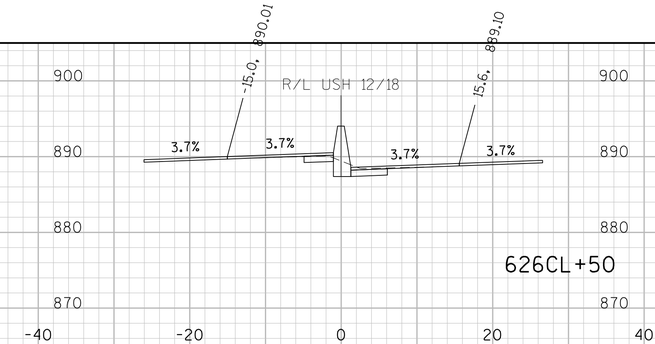
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



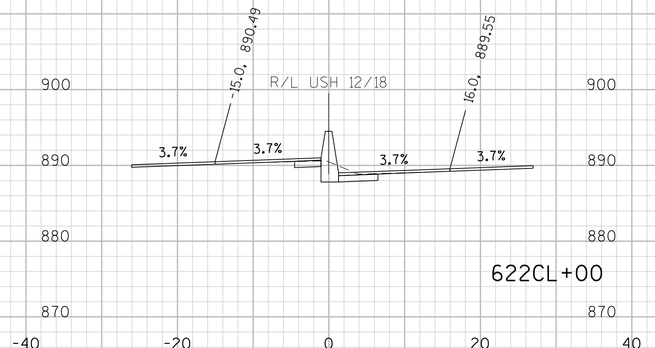
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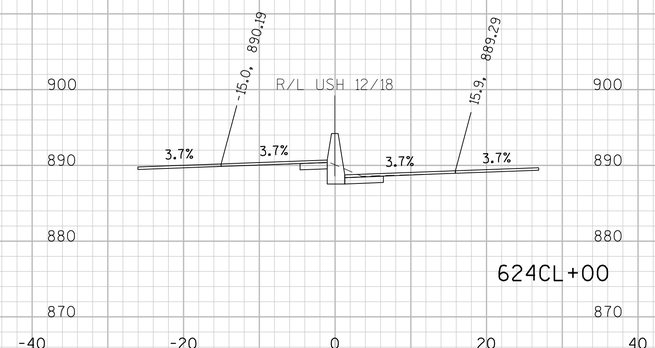
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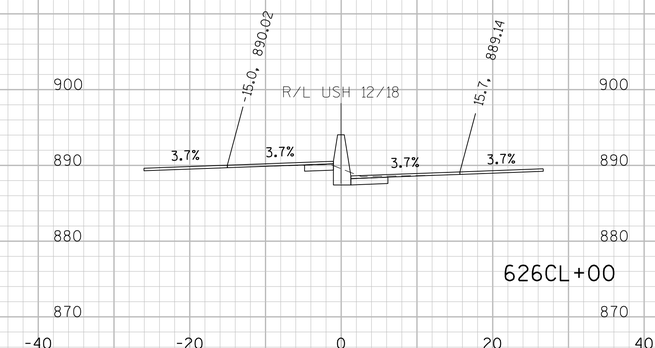
626CL+50



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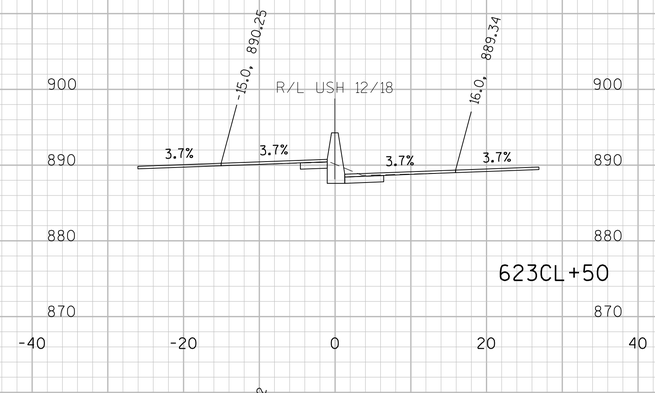
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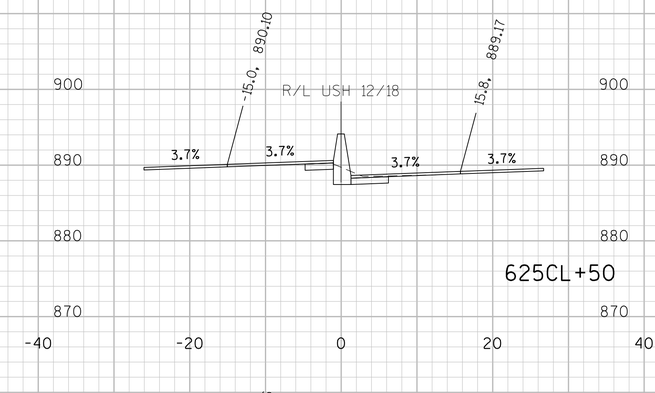
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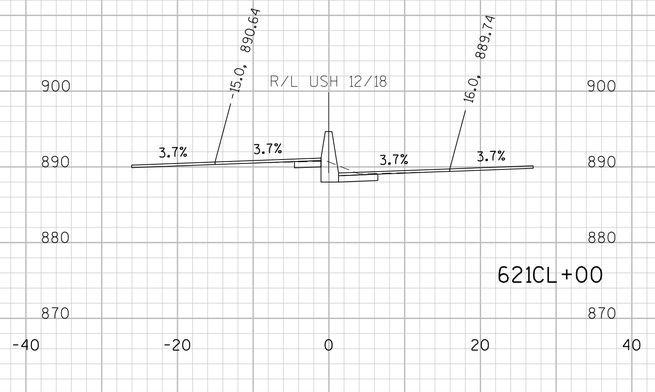
621CL+50



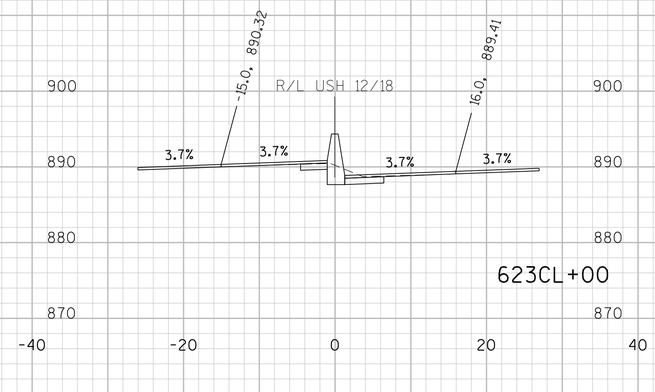
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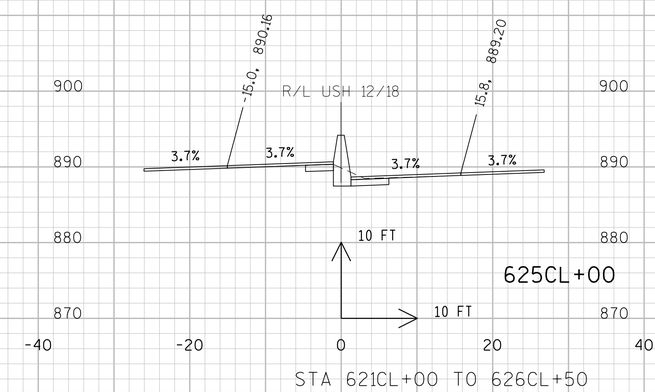
625CL+50



621CL+00



623CL+00



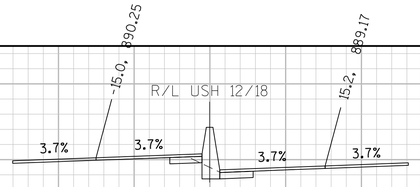
625CL+00

STA 621CL+00 TO 626CL+50

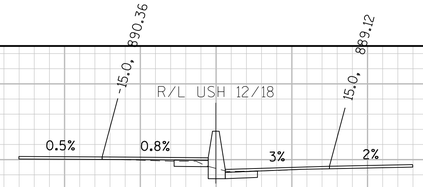
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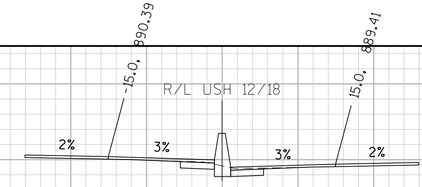
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



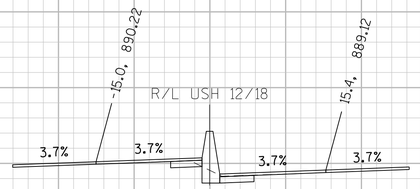
628CL+50



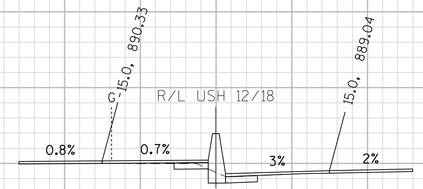
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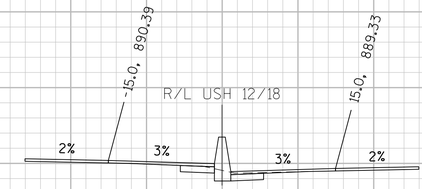
632CL+50



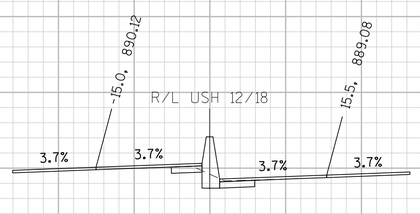
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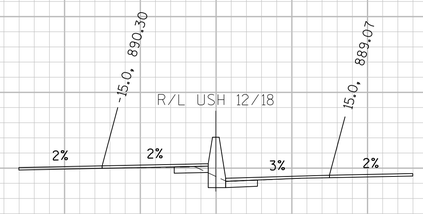
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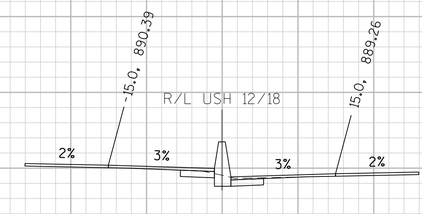
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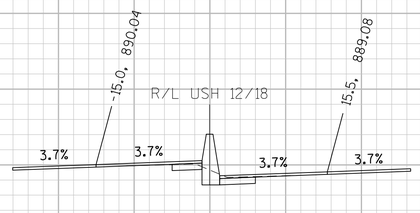
627CL+50



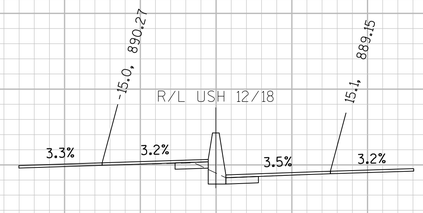
629CL+50



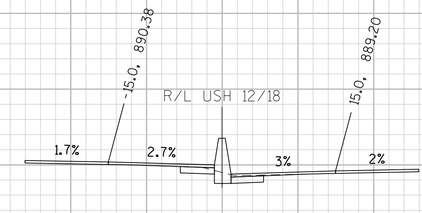
631CL+50



627CL+00



629CL+00



631CL+00

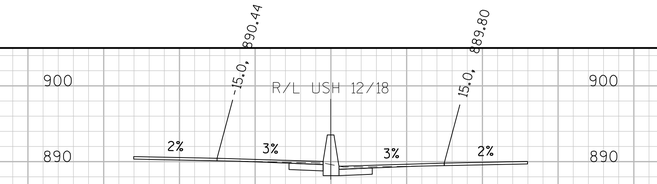
STA 627CL+00 TO 632CL+50

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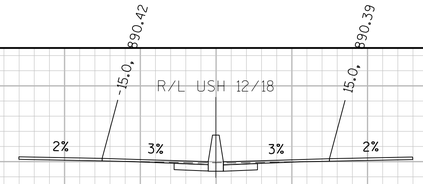
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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

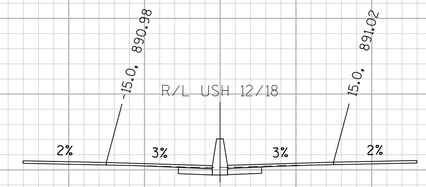
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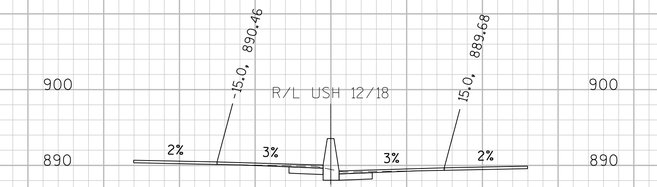
634CL+50



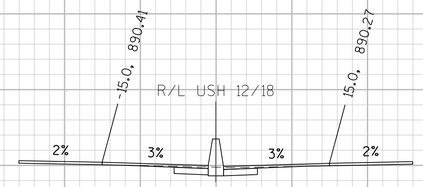
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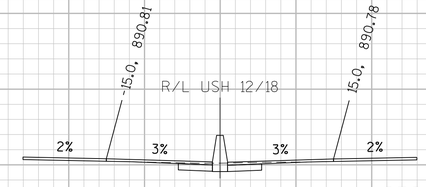
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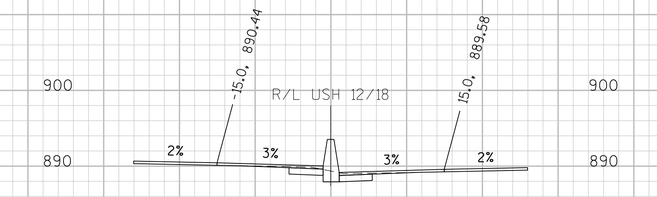
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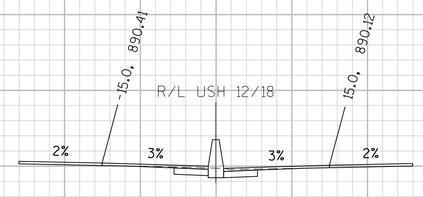
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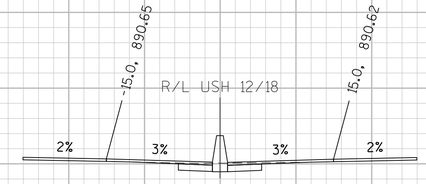
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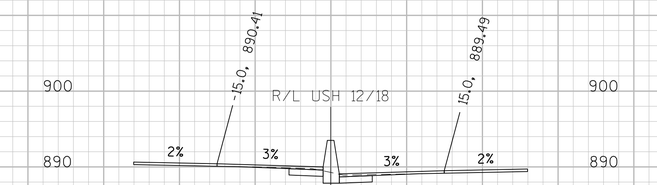
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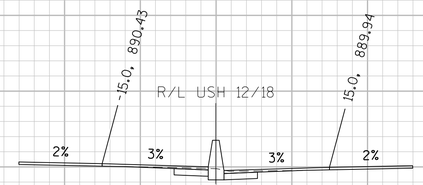
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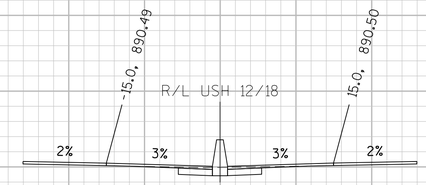
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635CL+00



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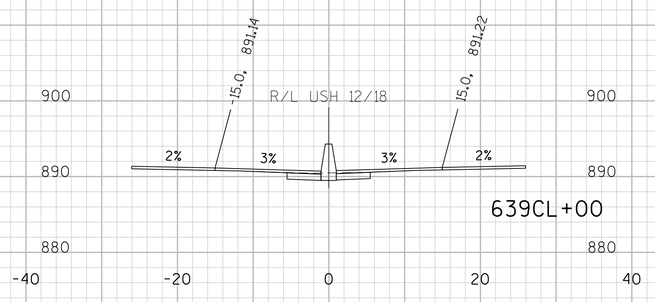
STA 633CL+00 TO 638CL+50

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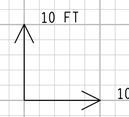
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PROJECT NO:1206-04-62	HWY:USH 12	COUNTY:DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

PARK STREET BRIDGE
B-13-16 (EB) / B-13-191 (WB)



639CL+00



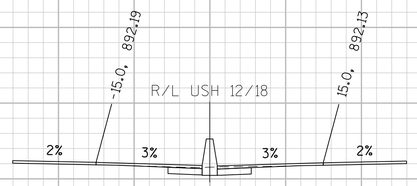
STA 639CL+00 TO 639CL+00

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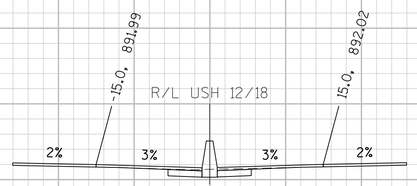
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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

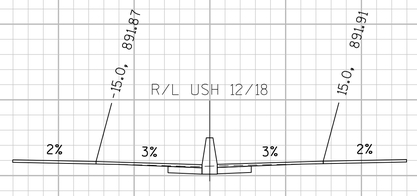
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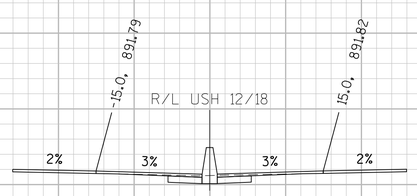
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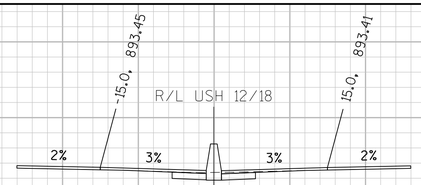
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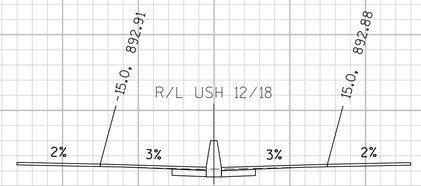
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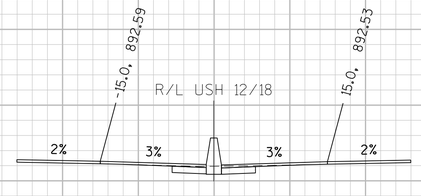
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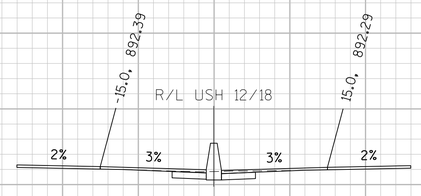
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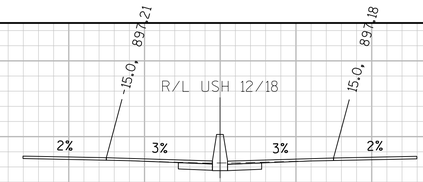
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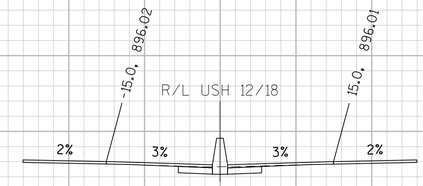
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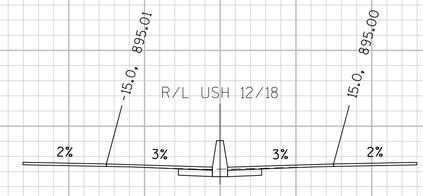
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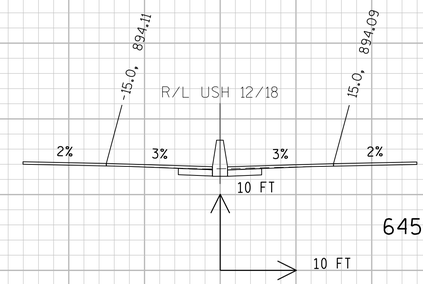
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646CL+00



645CL+50

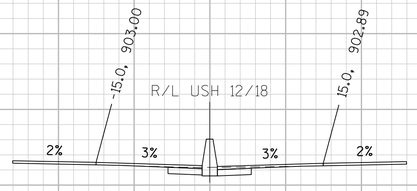


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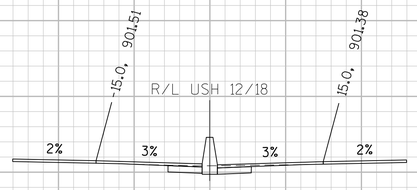
STA 641CL+00 TO 646CL+50

PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

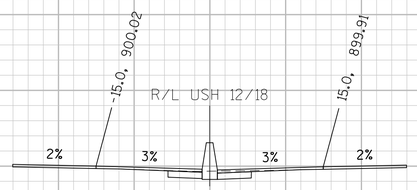
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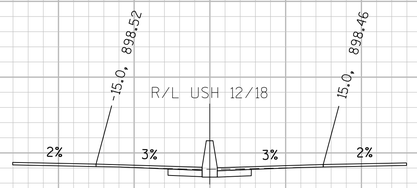
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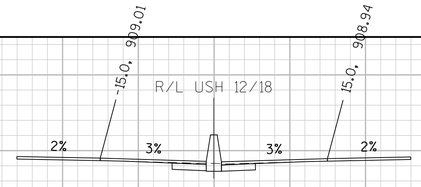
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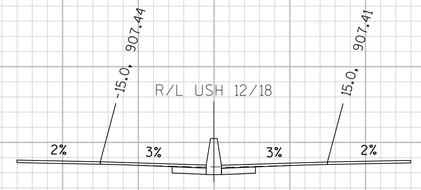
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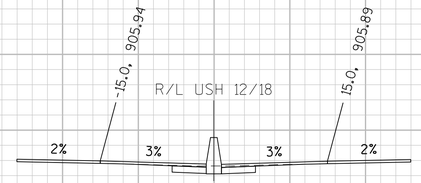
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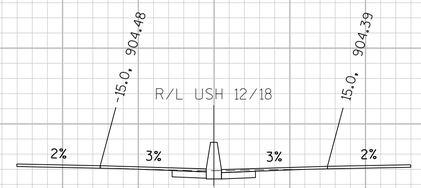
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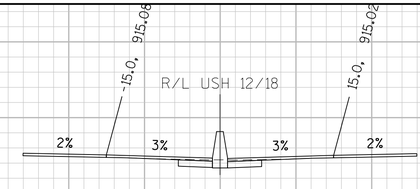
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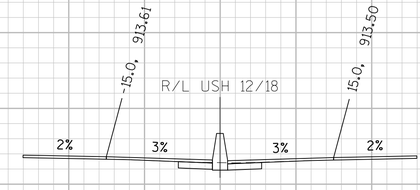
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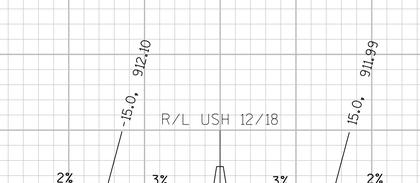
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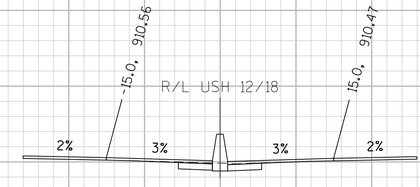
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652CL+00



651CL+50



651CL+00

10 FT

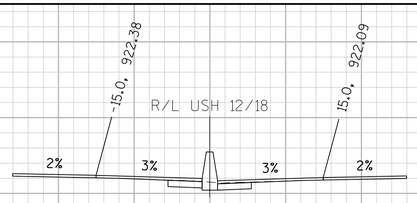
10 FT

STA 647CL+00 TO 652CL+50

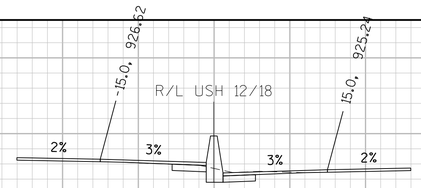
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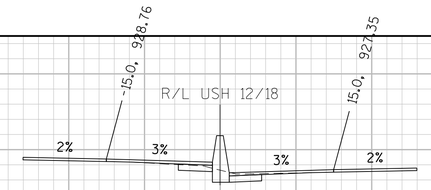
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



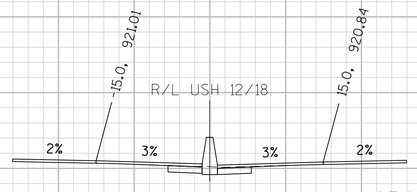
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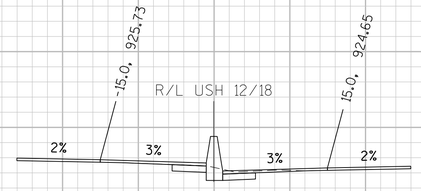
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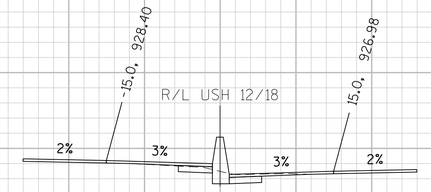
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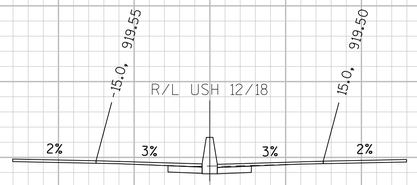
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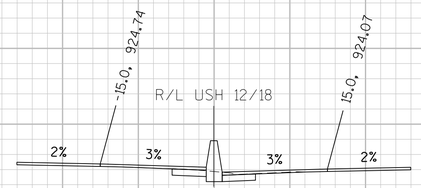
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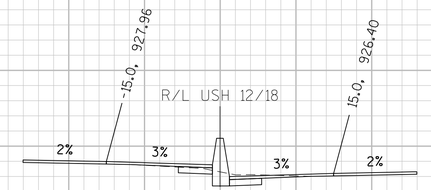
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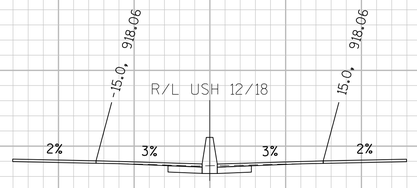
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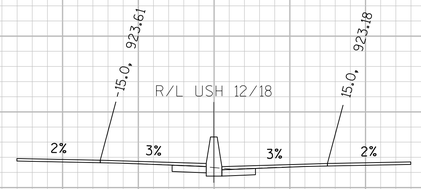
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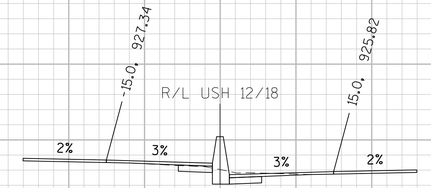
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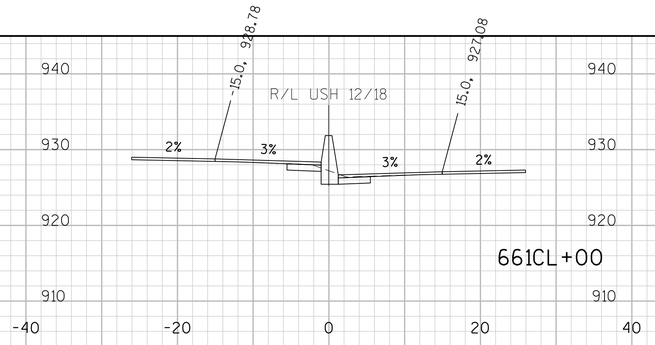
RAILROAD BRIDGE
B-13-17 (EB) / B-13-192 (WB)

STA 653CL+50 TO 659CL+00

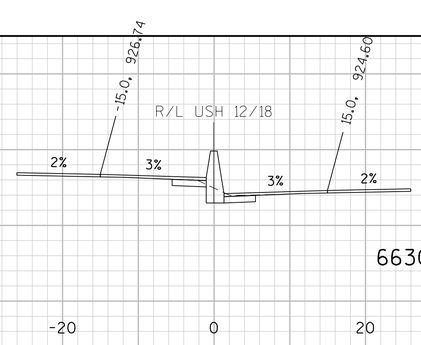
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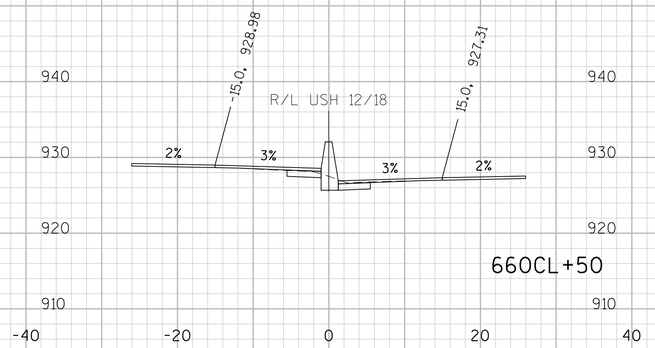
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



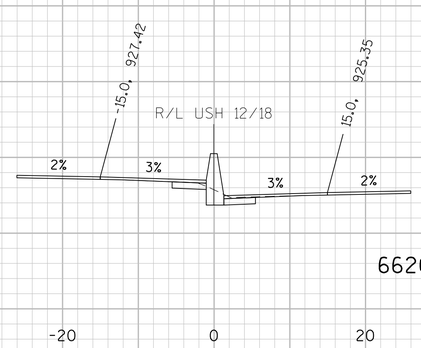
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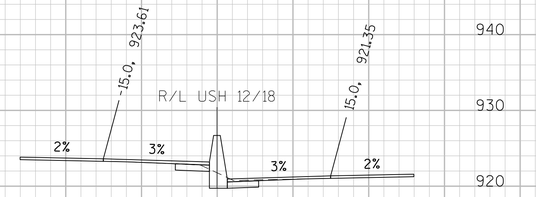
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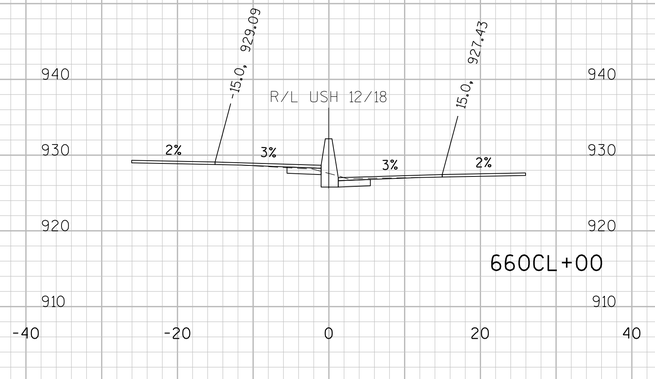
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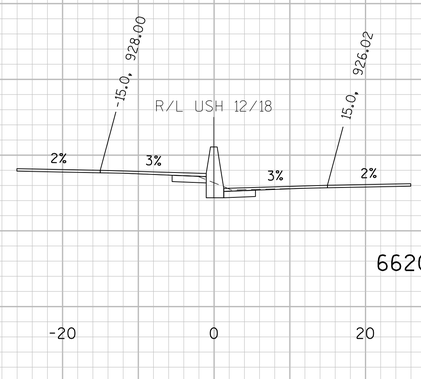
662CL+50



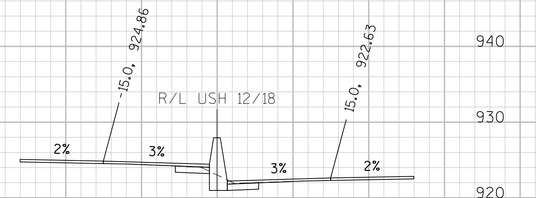
664CL+50



660CL+00



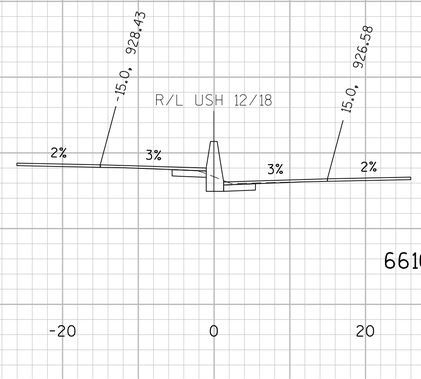
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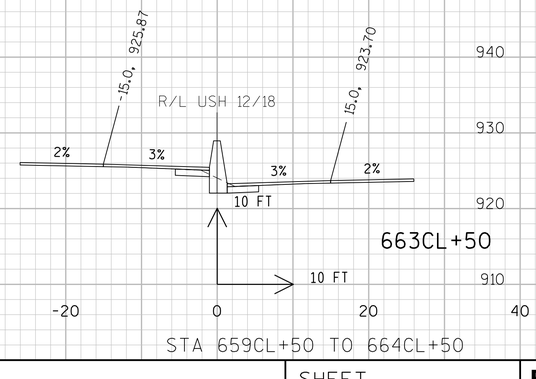
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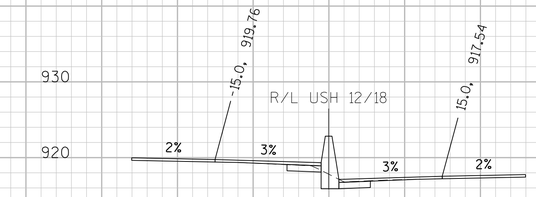
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STA 659CL+50 TO 664CL+50

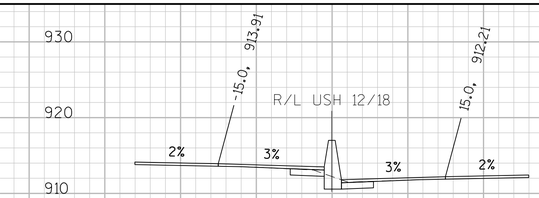
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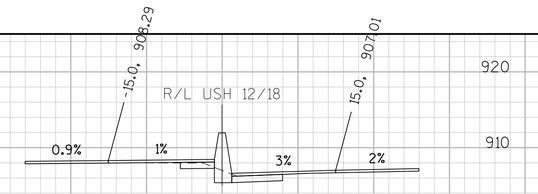
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



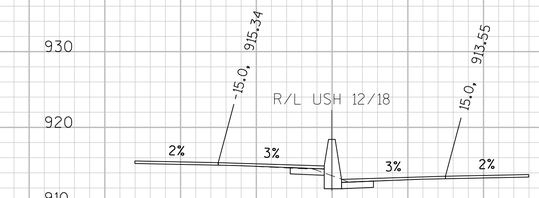
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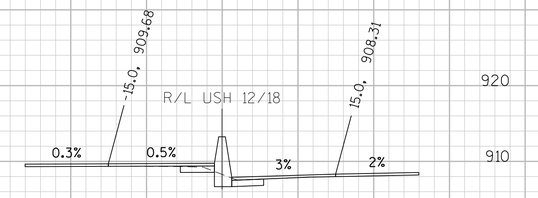
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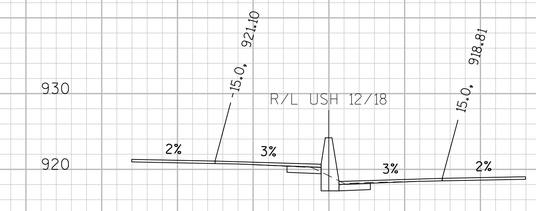
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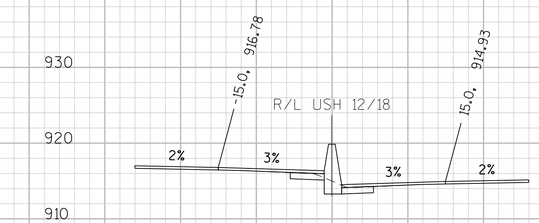
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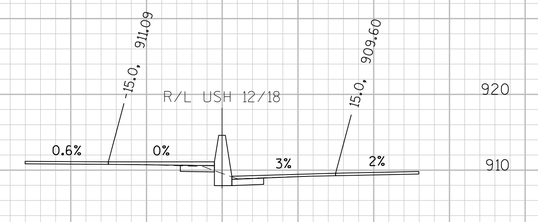
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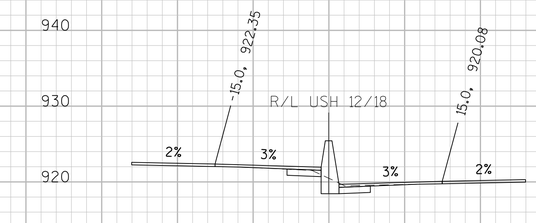
665CL+50



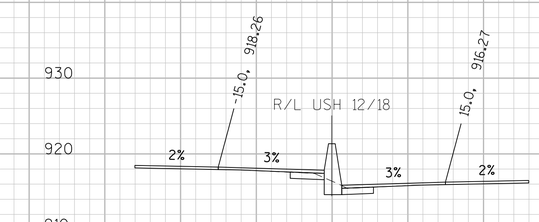
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669CL+00



665CL+00



666CL+50



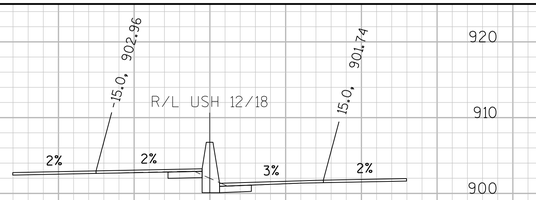
668CL+50

STA 665CL+00 TO 670CL+00

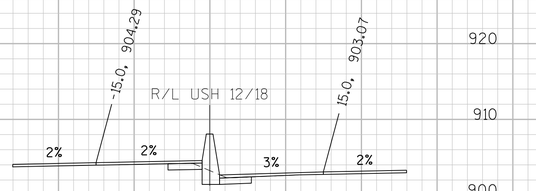
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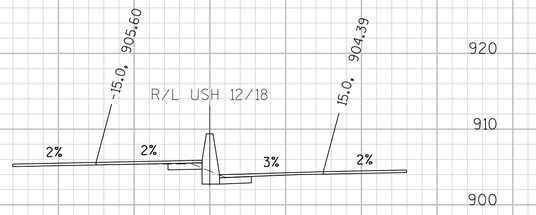
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



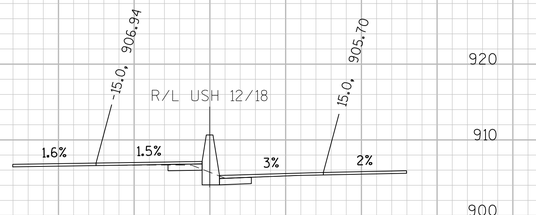
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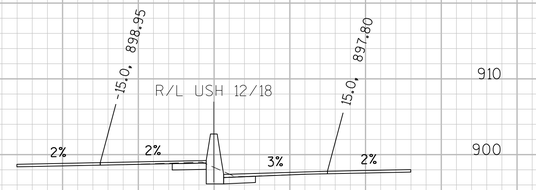
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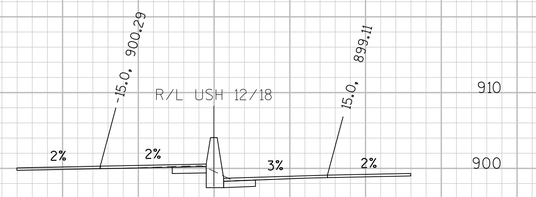
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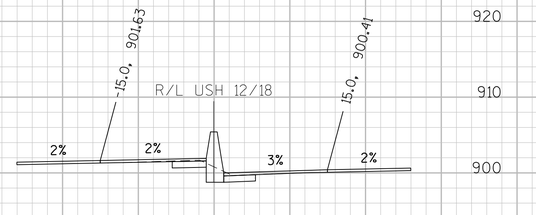
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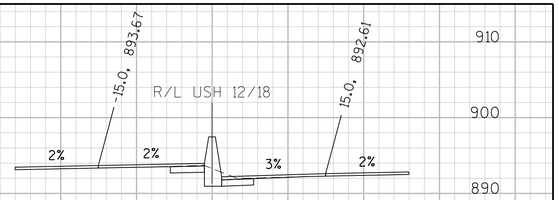
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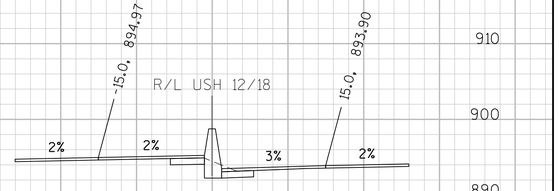
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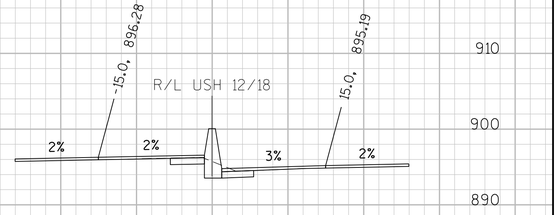
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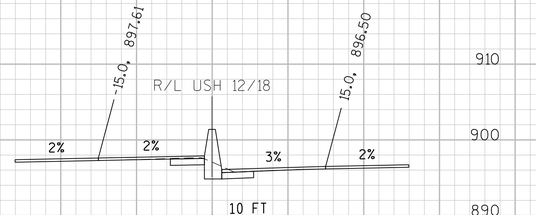
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675CL+00



674CL+50



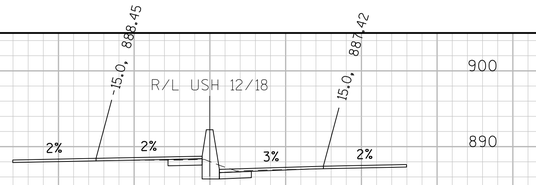
674CL+00

STA 670CL+50 TO 675CL+50

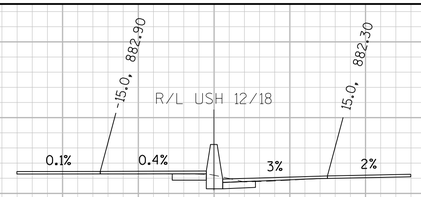
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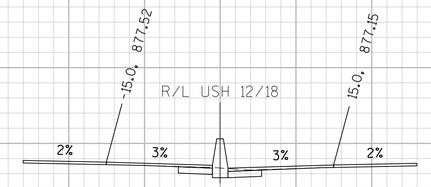
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



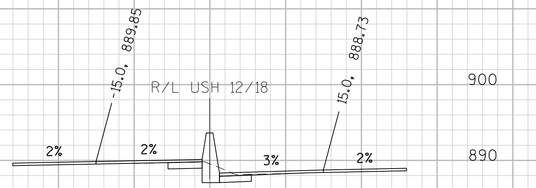
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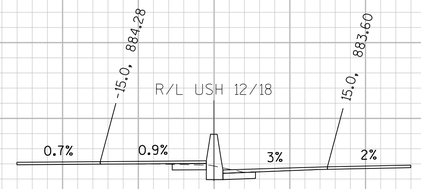
679CL+50



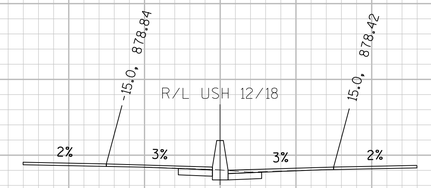
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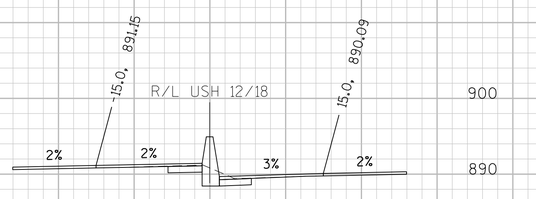
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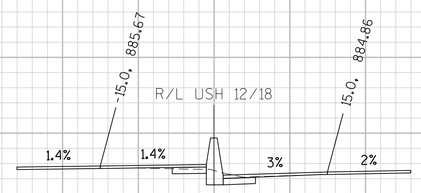
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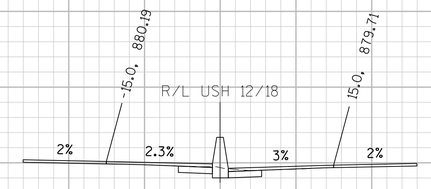
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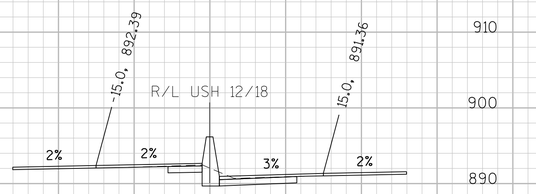
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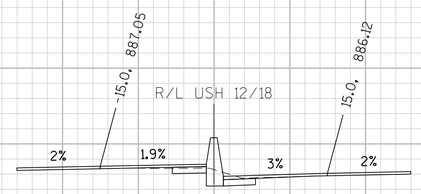
678CL+50



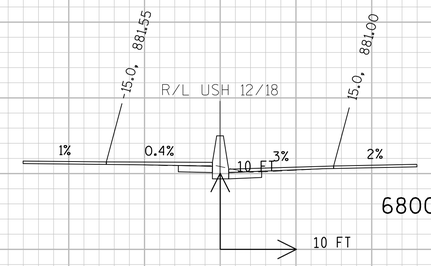
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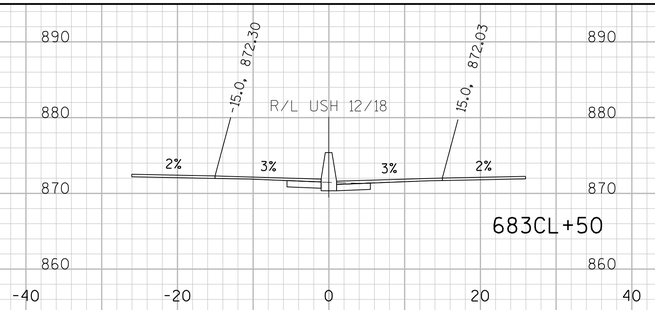
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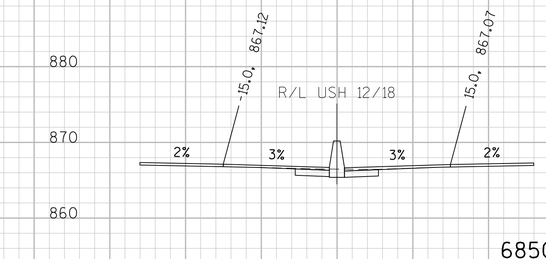
STA 676CL+00 TO 681CL+50

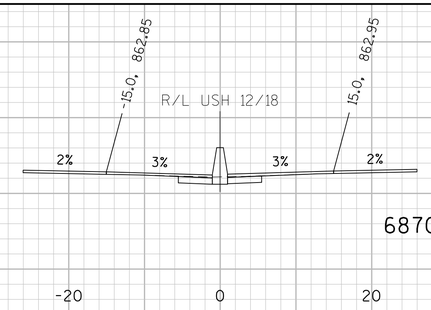
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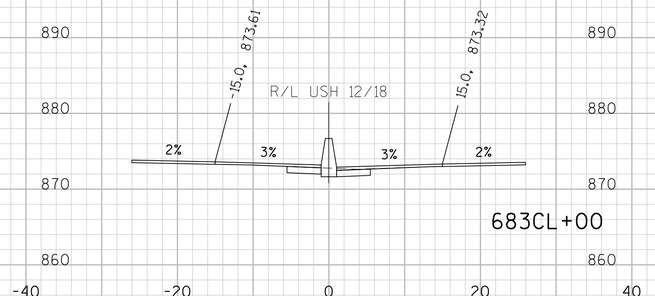
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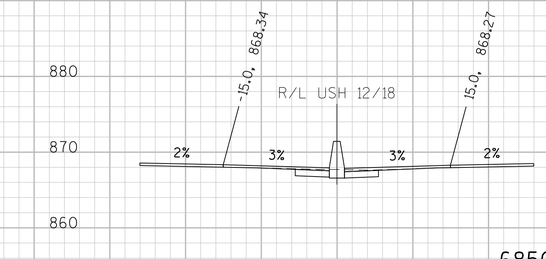
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

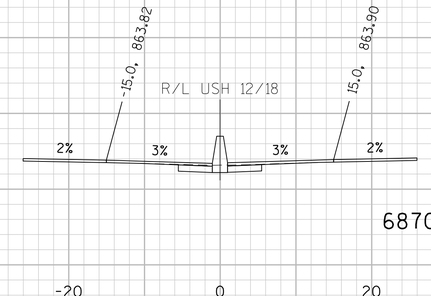


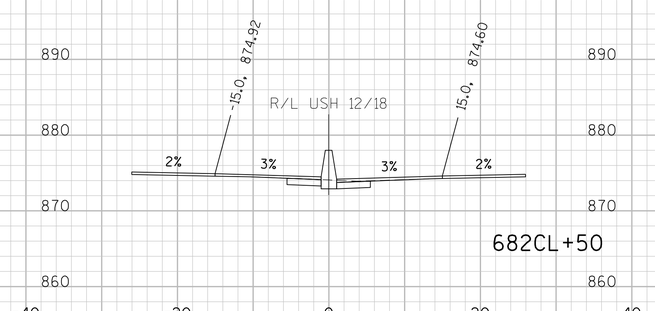


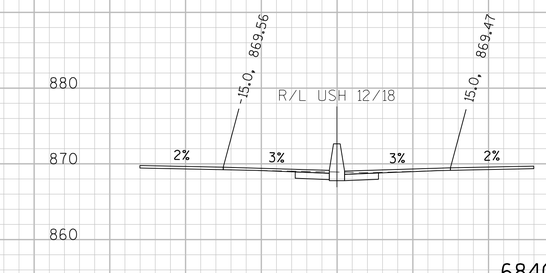


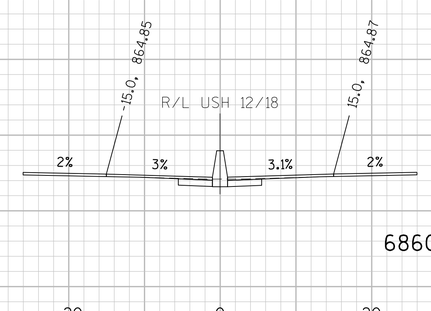


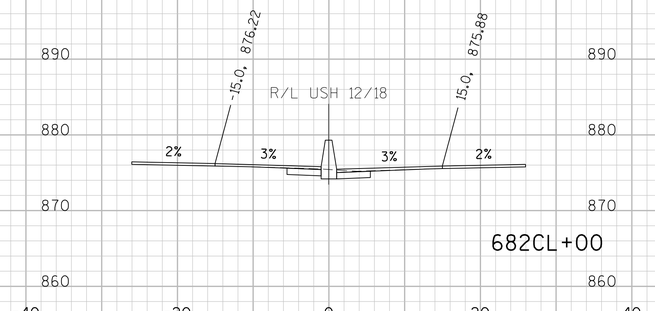




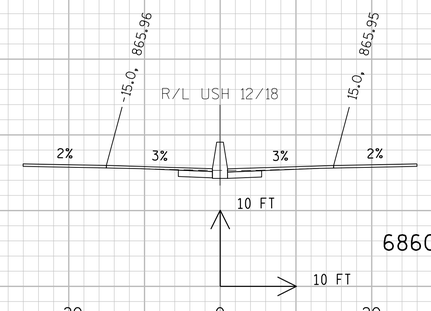












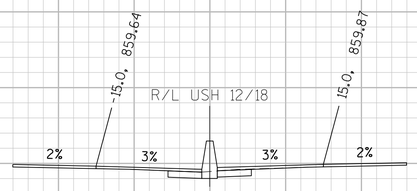
STA 682CL+00 TO 687CL+50

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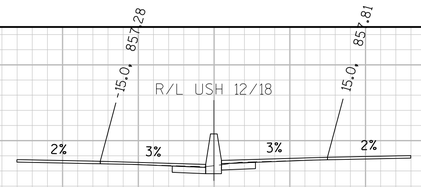
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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

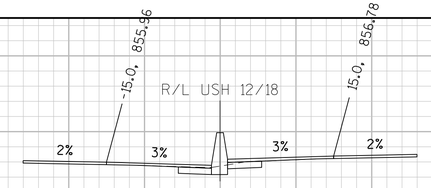
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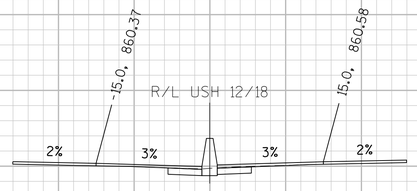
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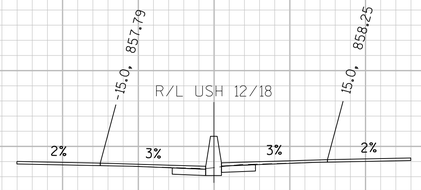
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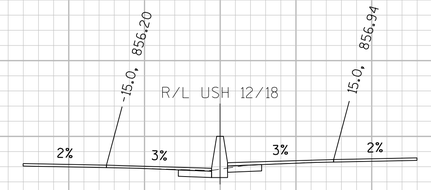
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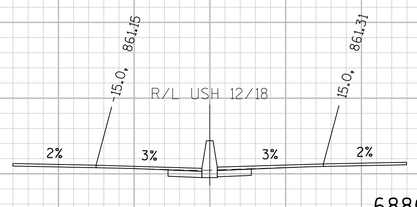
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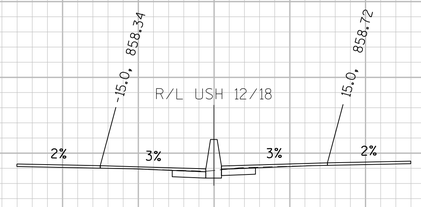
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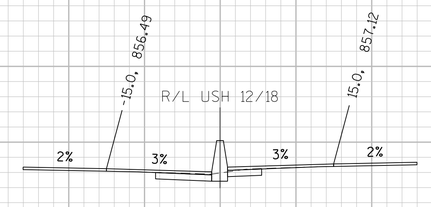
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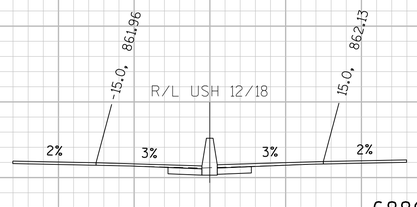
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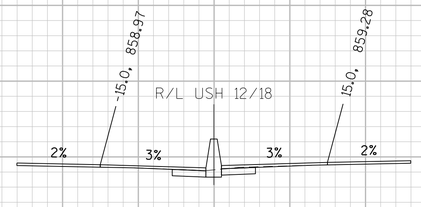
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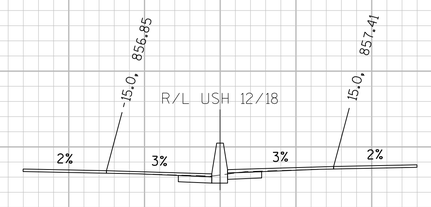
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688CL+00



690CL+00



692CL+00

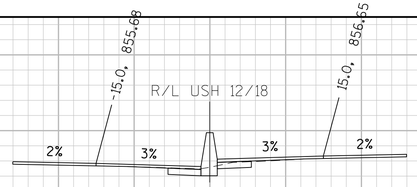
STA 688CL+00 TO 693CL+50

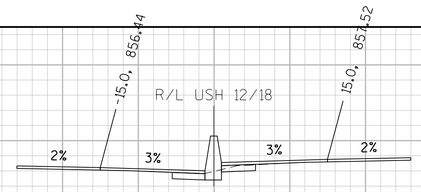
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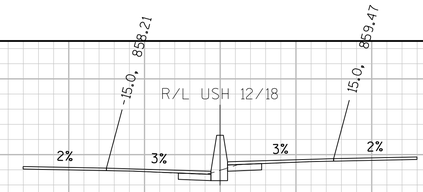
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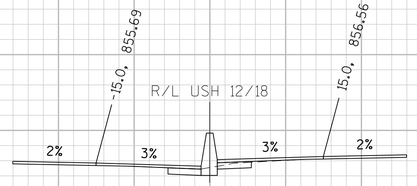
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

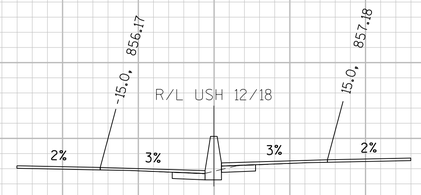
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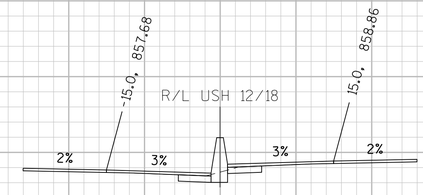


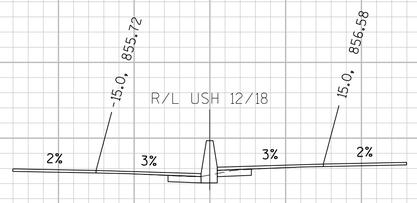


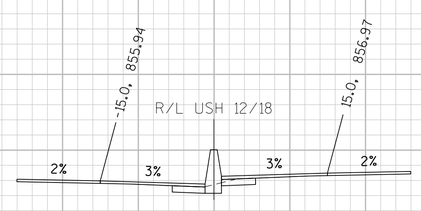


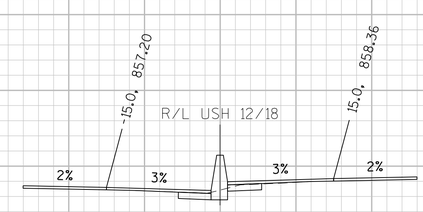


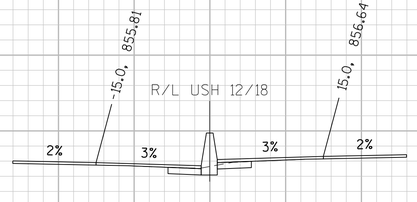


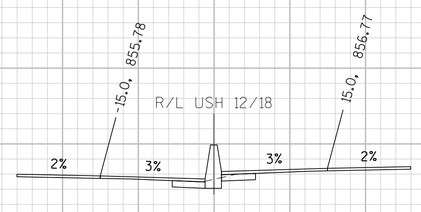


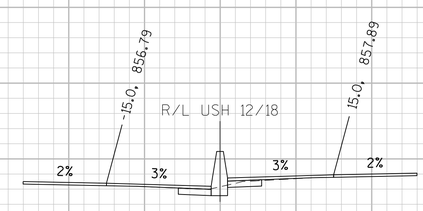












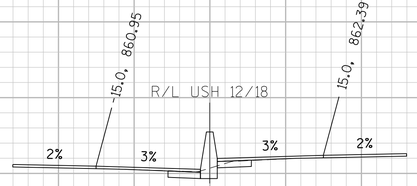
STA 694CL+00 TO 699CL+50

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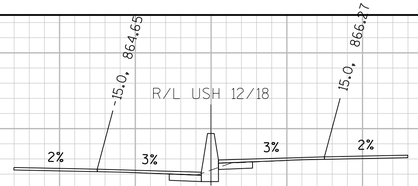
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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

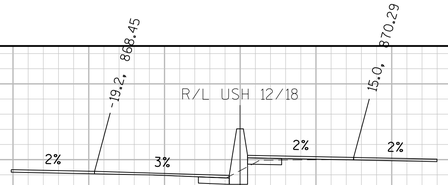
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PLOT DATE : 2/17/2020 9:47:14 AM PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 10:1
WISDOT/CADDS SHEET 21



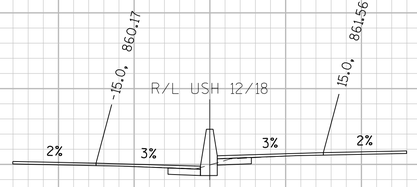
701CL+50



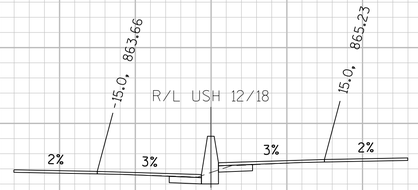
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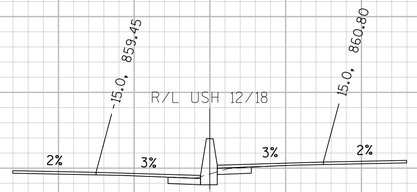
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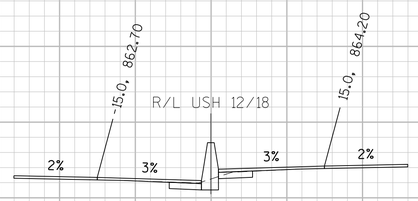
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705CL+00



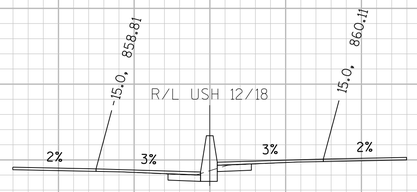
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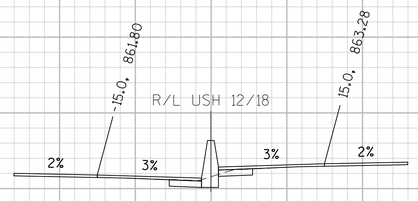
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704CL+50



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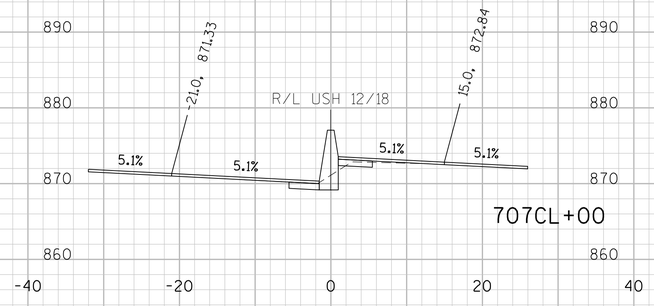
STA 700CL+00 TO 705CL+50

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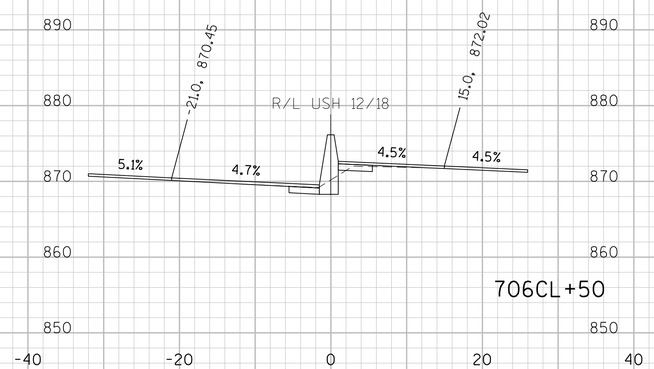
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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

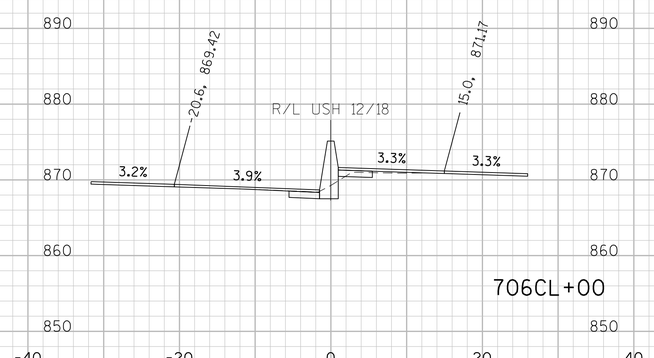
JOHN NOLEN DRIVE BRIDGE
B-13-37 (EB) / B-13-195 (WB)



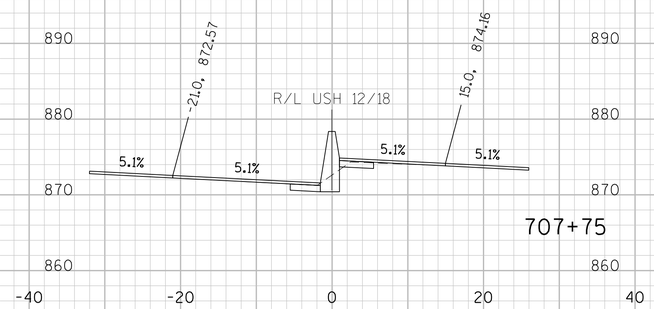
707CL+00



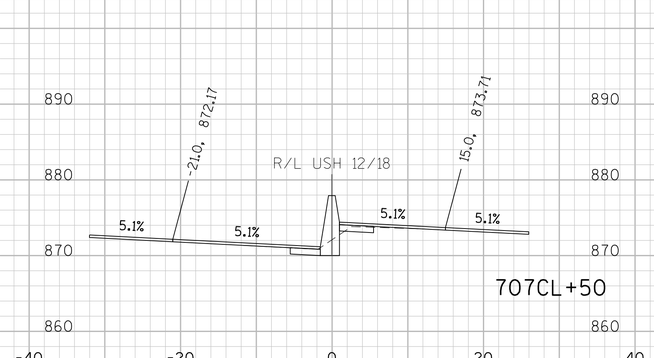
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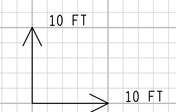
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707+75



707CL+50



STA 706CL+00 TO 707+75

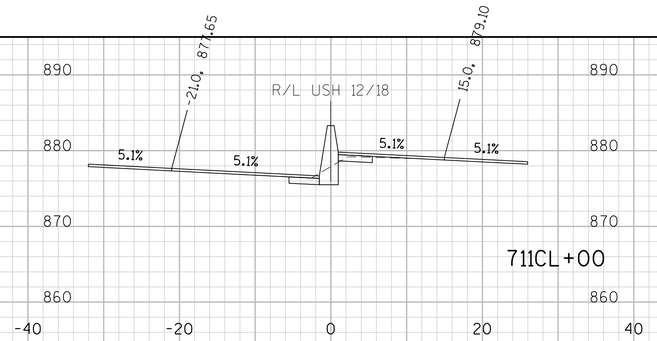
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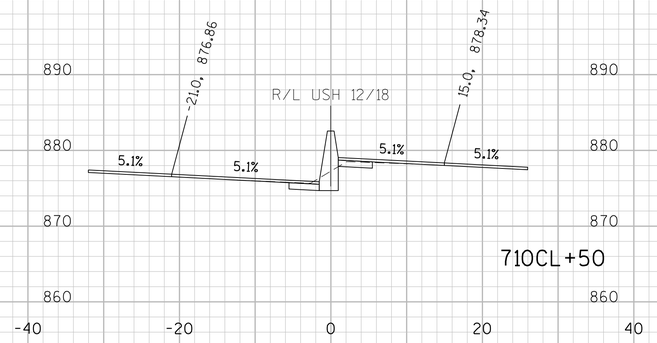
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\090201_xs.dgn PLOT DATE : 2/17/2020 9:47:15 AM PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 10:1

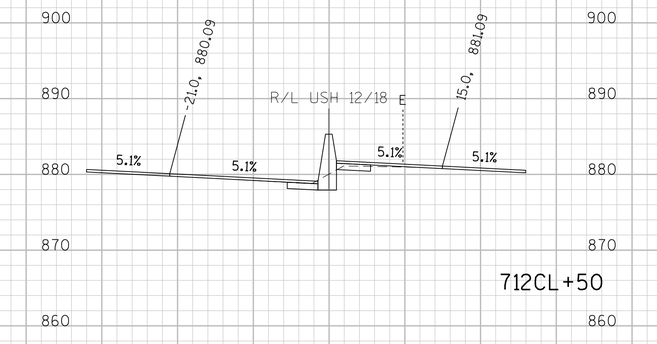
WISDOT/CADDS SHEET 21



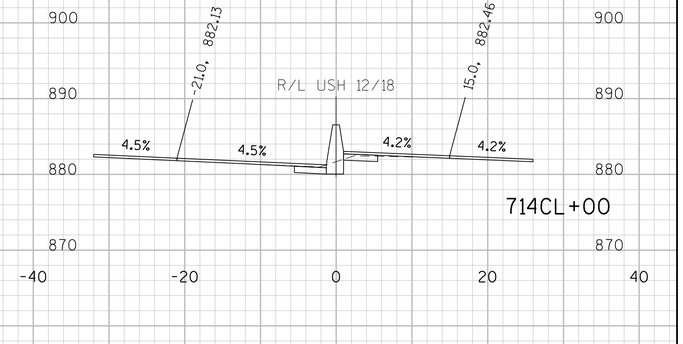
711CL+00



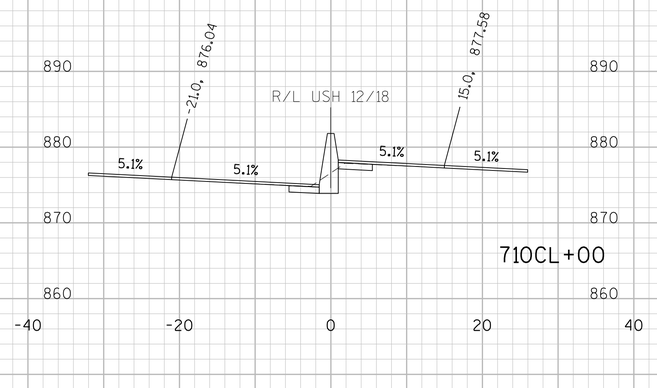
710CL+50



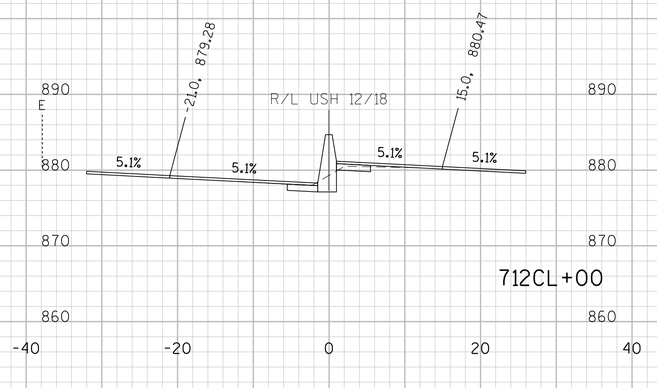
712CL+50



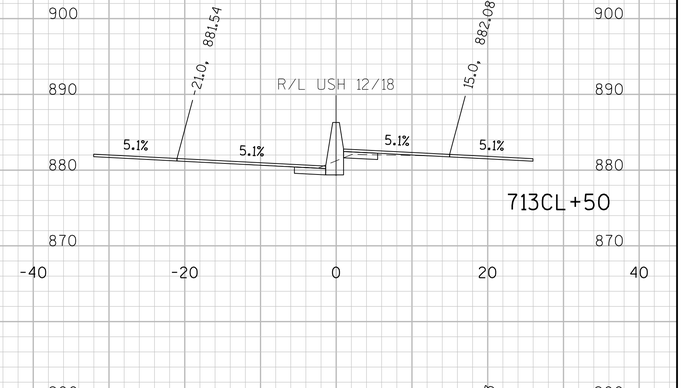
714CL+00



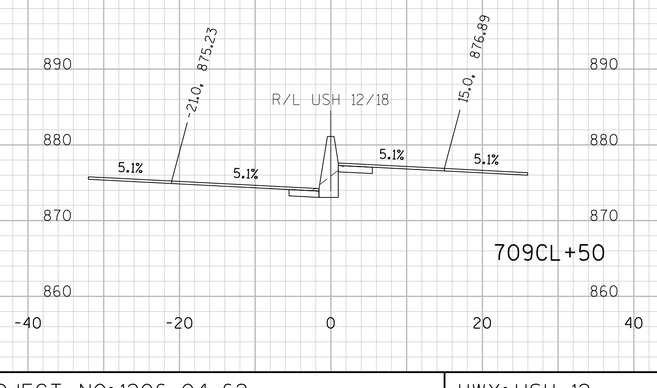
710CL+00



712CL+00



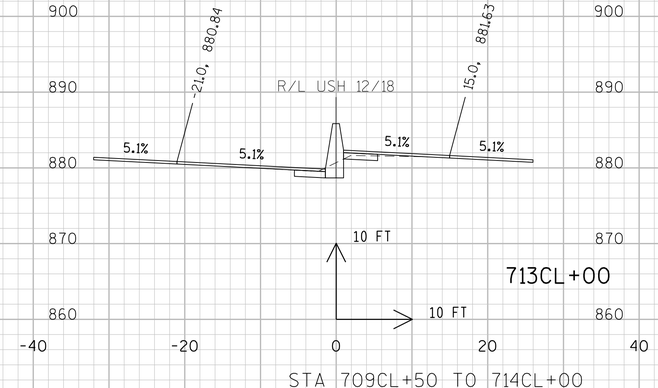
713CL+50



709CL+50



711CL+50



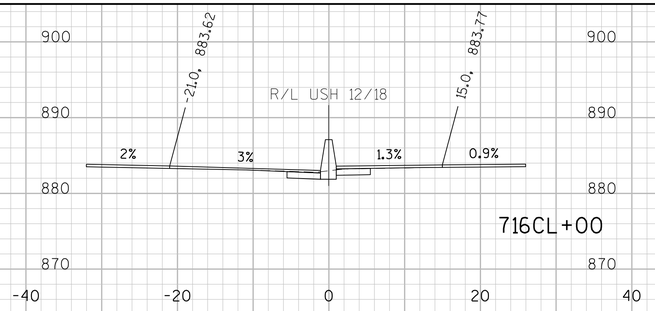
713CL+00

STA 709CL+50 TO 714CL+00

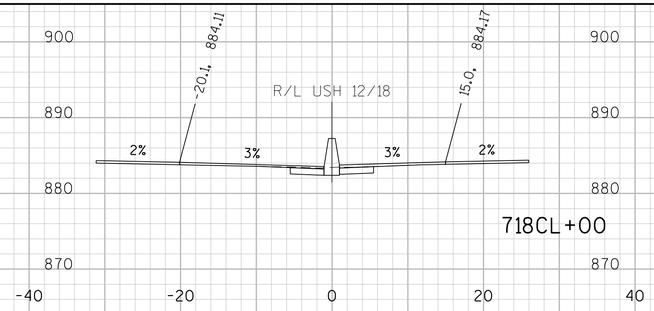
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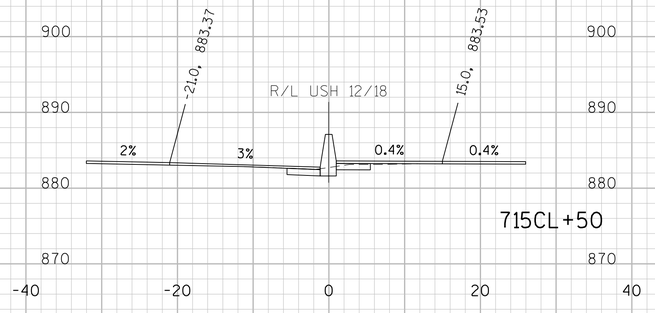
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



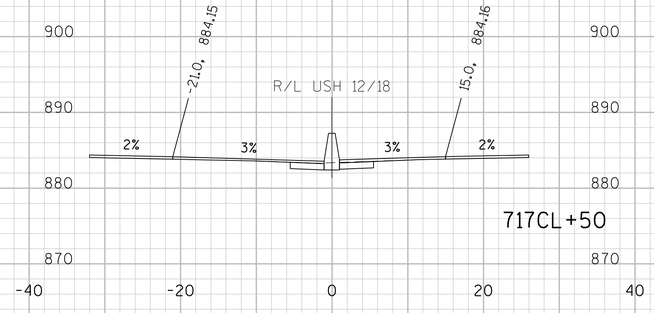
716CL+00



718CL+00

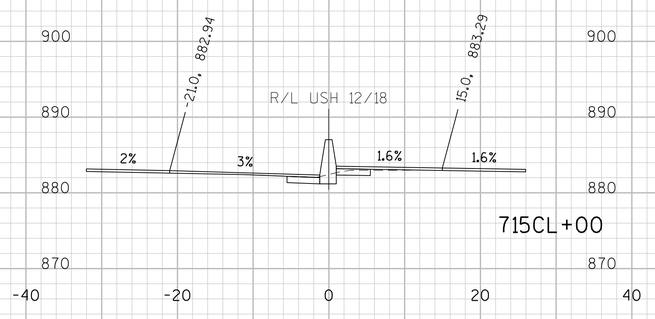


715CL+50

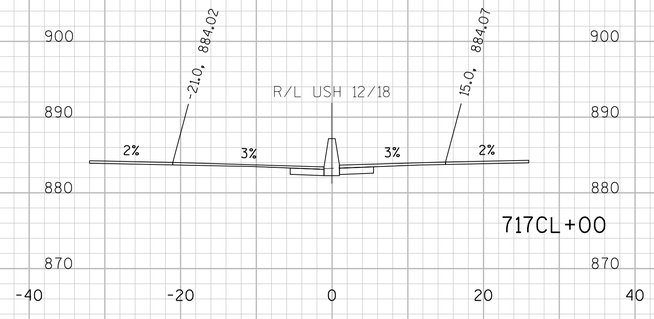


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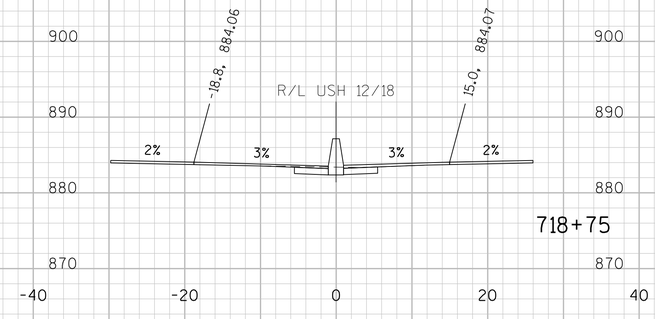
RAILROAD BRIDGE
B-13-280 (EB & WB)



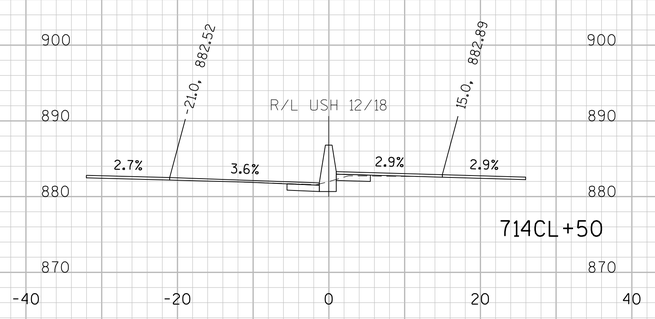
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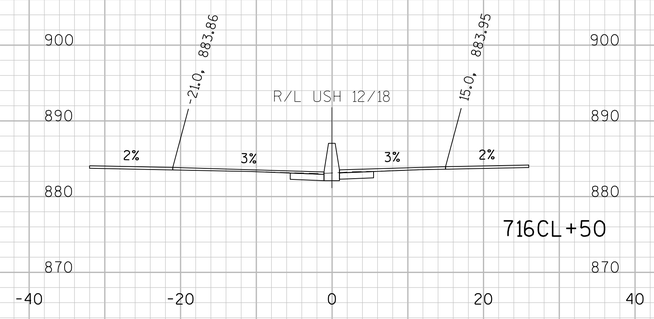
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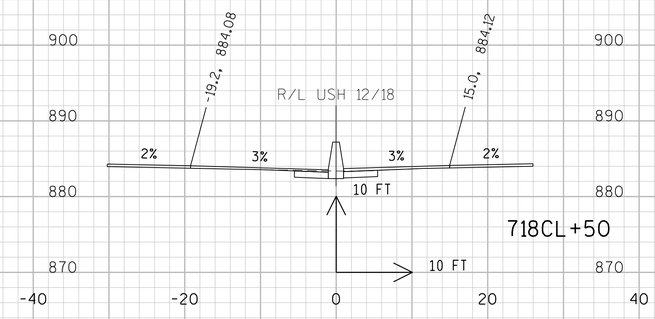
718+75



714CL+50



716CL+50

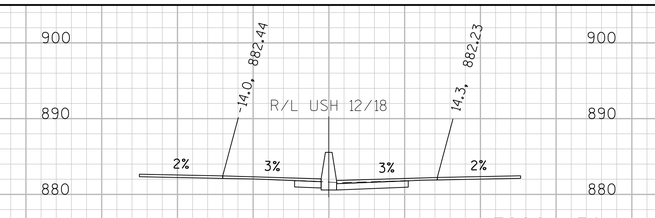


718CL+50

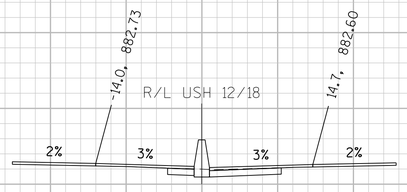
STA 714CL+50 TO 718+75

PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

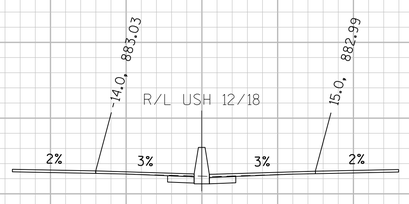
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WISDOT/CADDS SHEET 21



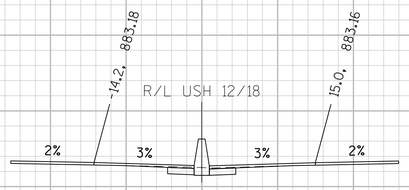
722CL+50



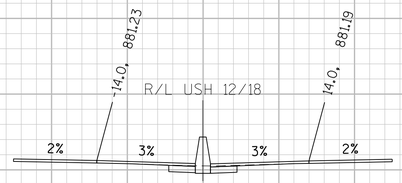
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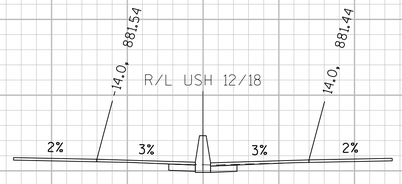
721CL+50



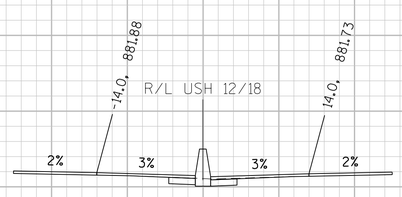
721+25



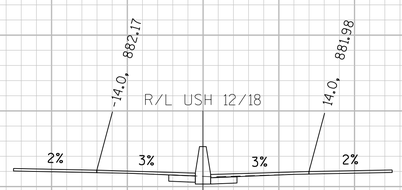
724CL+50



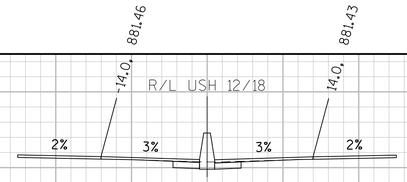
724CL+00



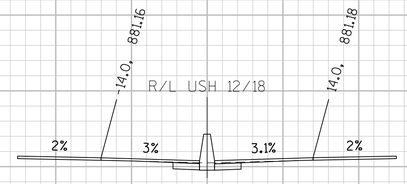
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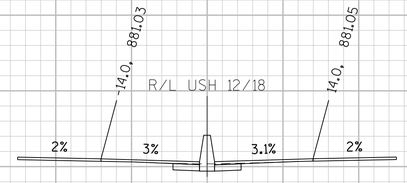
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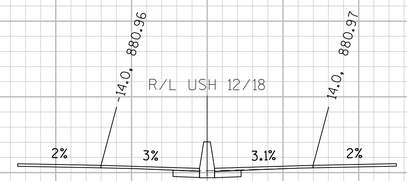
727CL+00



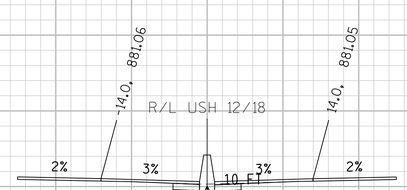
726CL+50



726CL+00



725CL+50



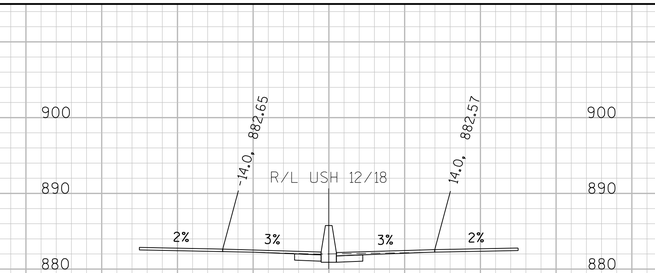
725CL+00

STA 721+25 TO 727CL+00

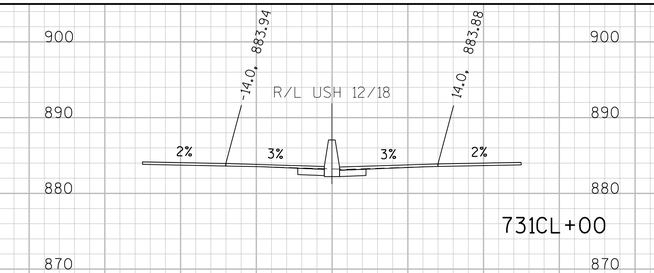
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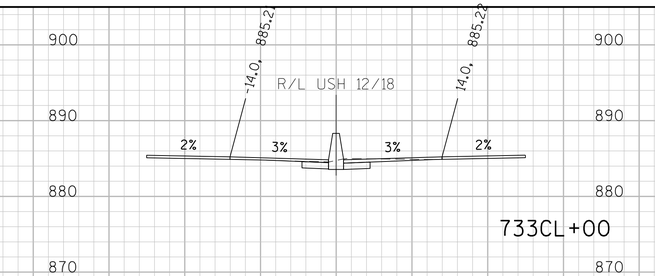
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



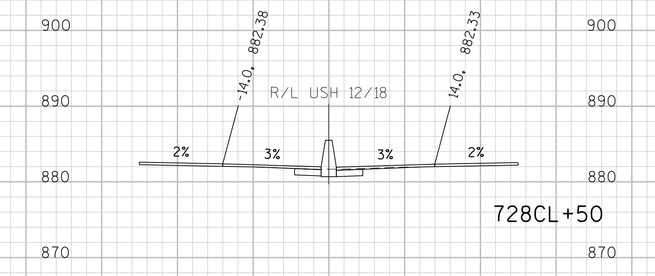
729CL+00



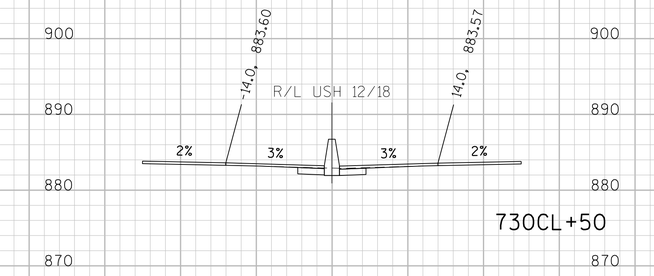
731CL+00



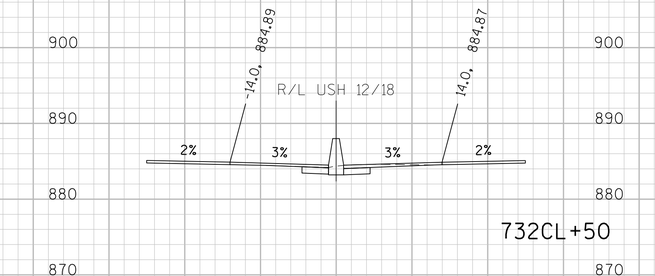
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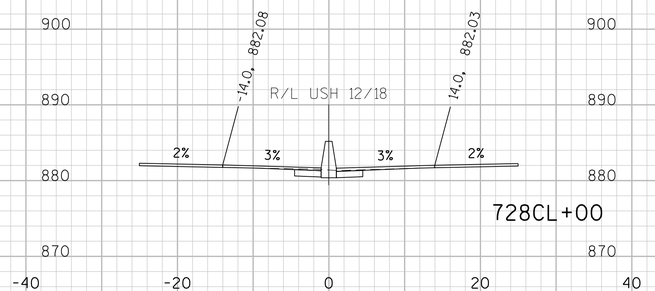
728CL+50



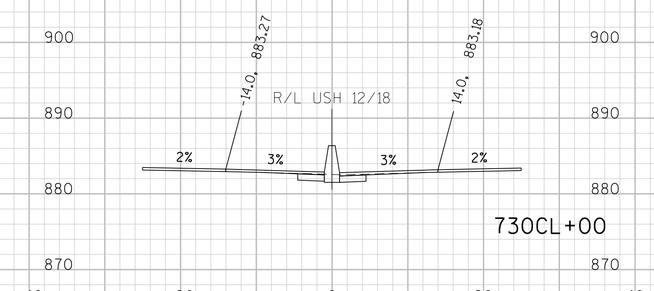
730CL+50



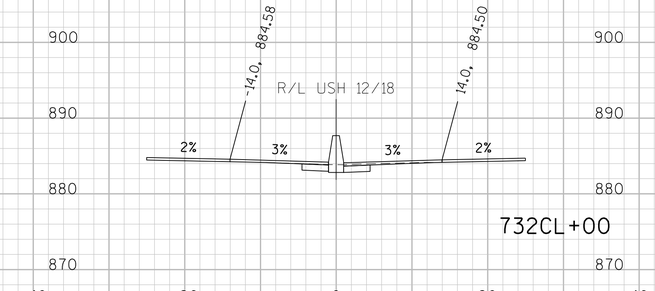
732CL+50



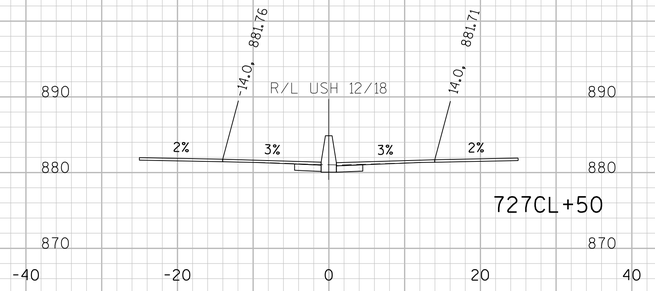
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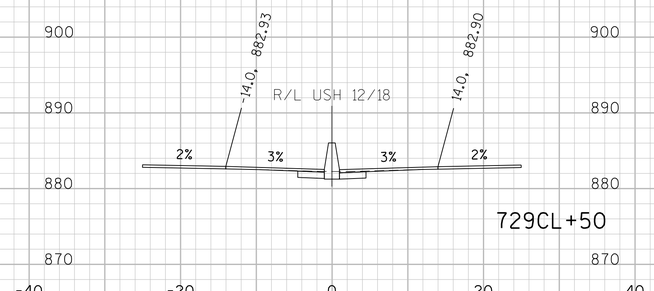
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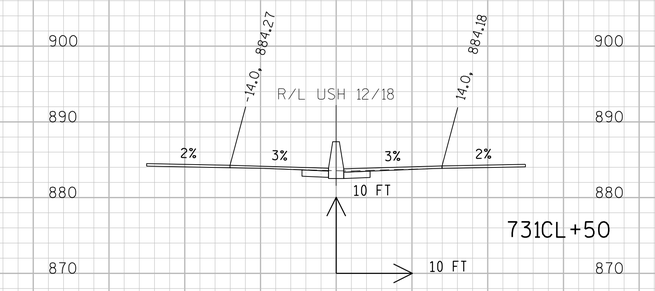
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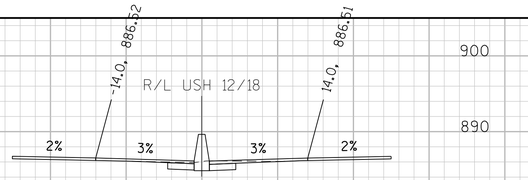
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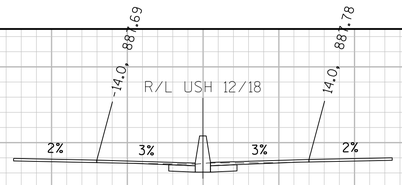
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STA 727CL+50 TO 733CL+00

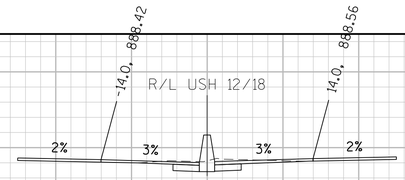
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



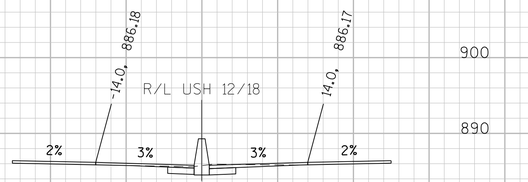
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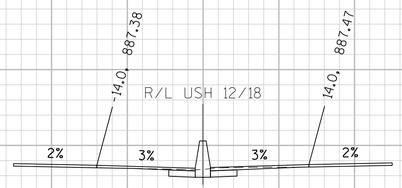
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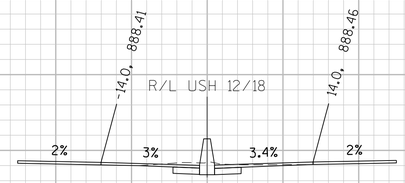
739CL+00



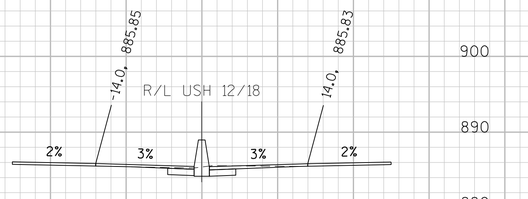
734CL+50



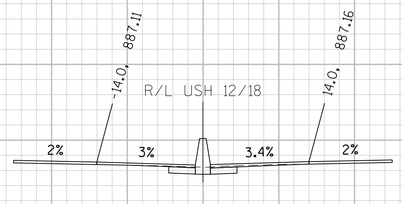
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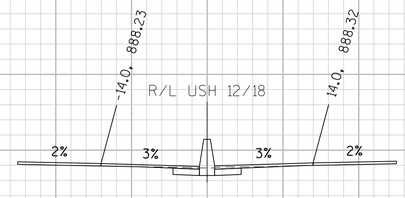
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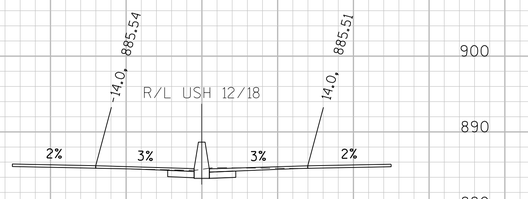
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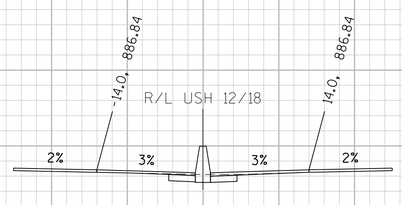
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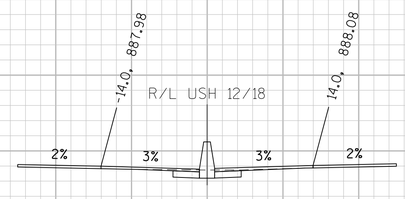
738CL+00



733CL+50



735CL+50



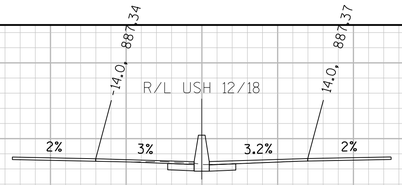
737CL+50

STA 733CL+50 TO 739CL+00

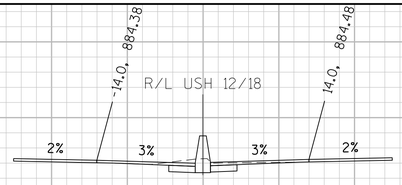
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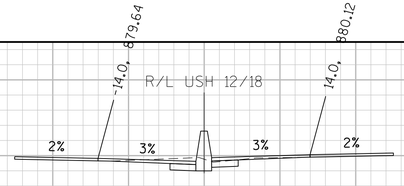
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



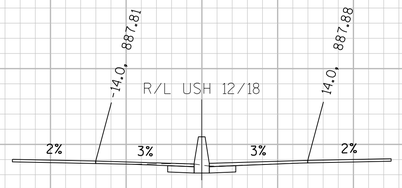
741CL+00



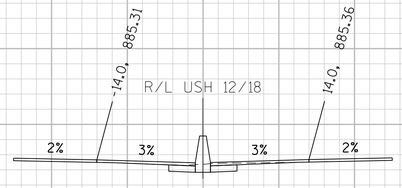
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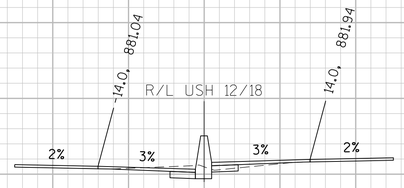
745CL+00



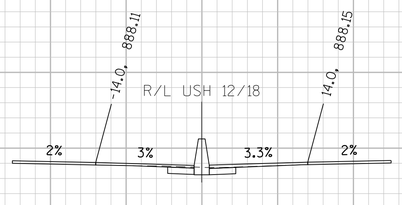
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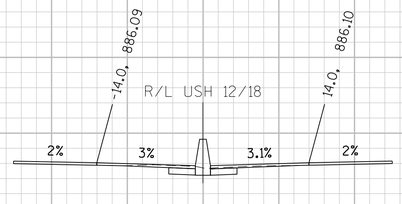
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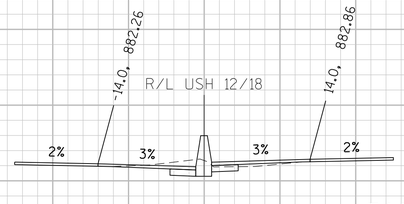
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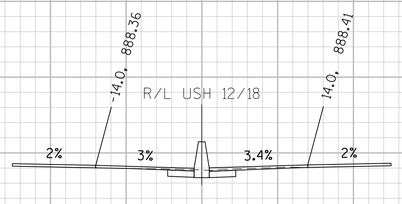
740CL+00



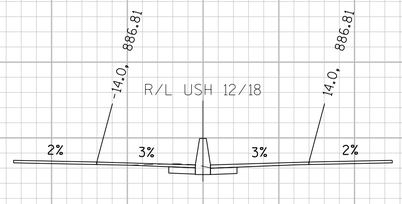
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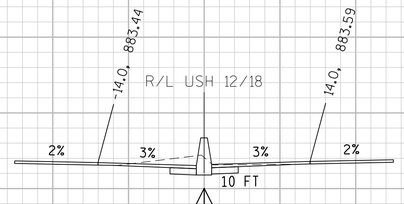
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739CL+50



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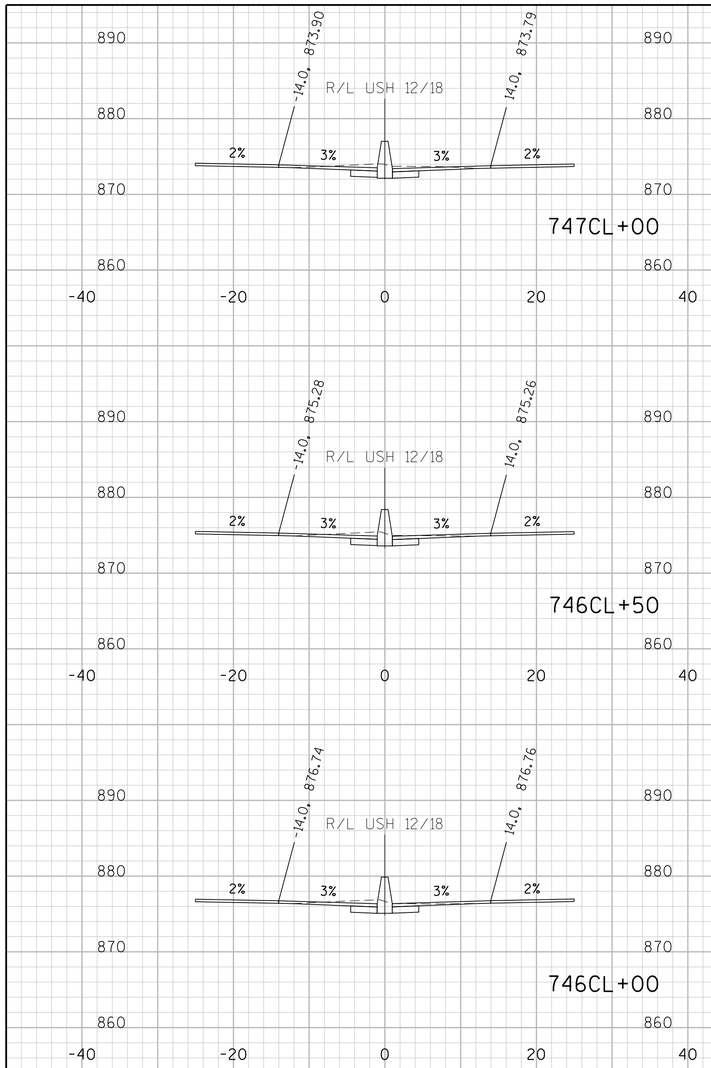
743CL+50

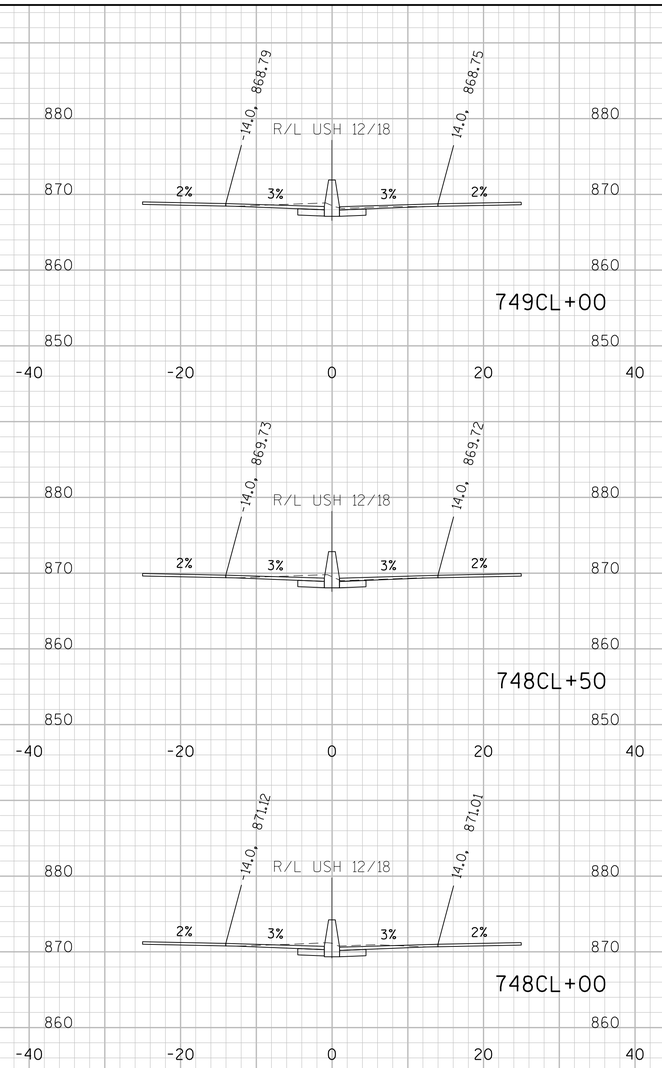
STA 739CL+50 TO 745CL+00

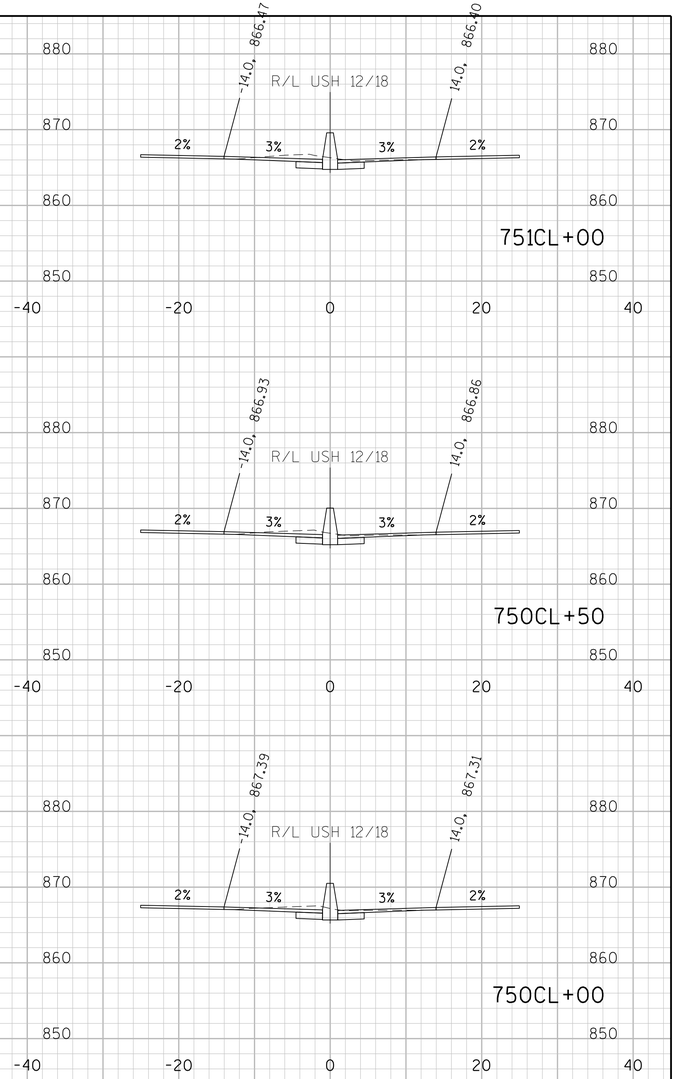
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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

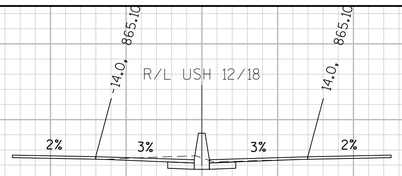




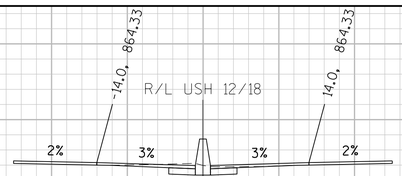


STA 745CL+50 TO 751CL+00

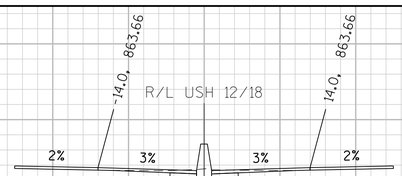
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



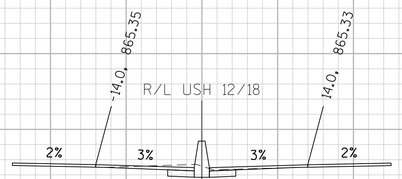
753CL+00



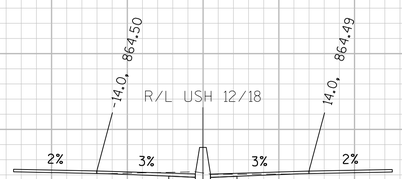
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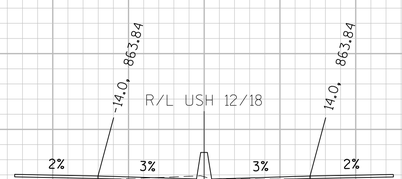
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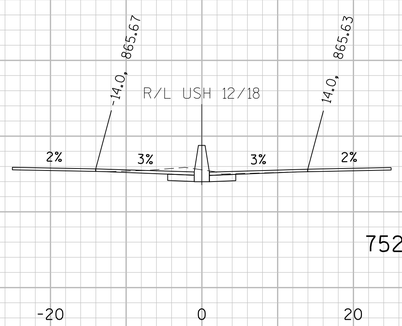
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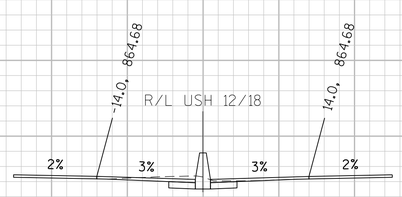
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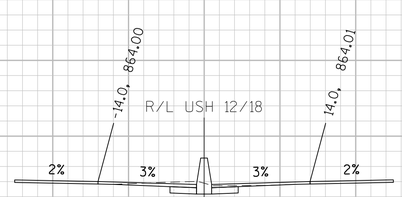
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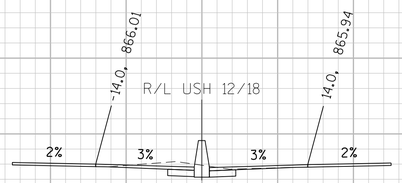
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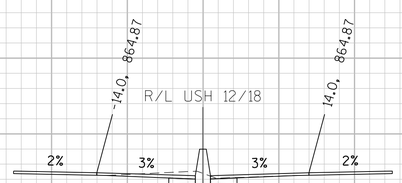
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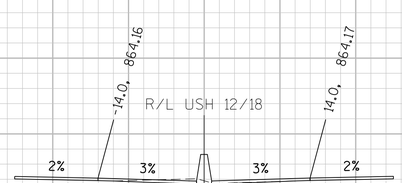
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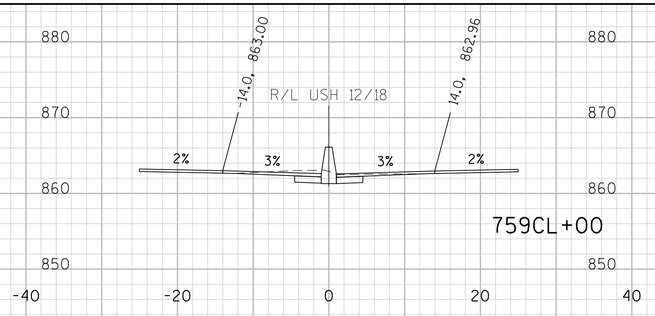
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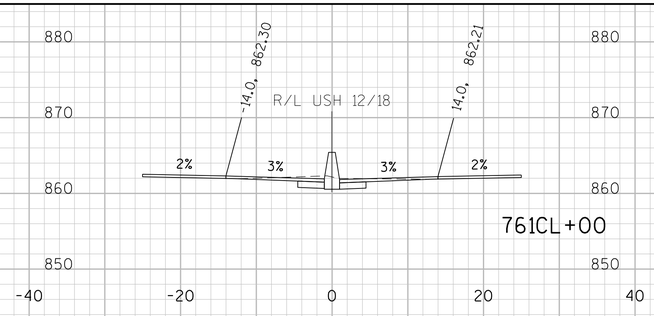
STA 751CL+50 TO 757CL+00

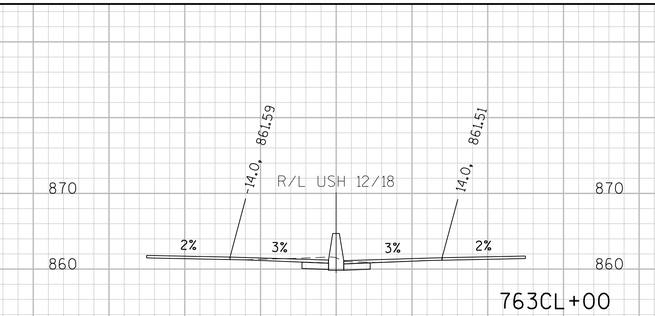
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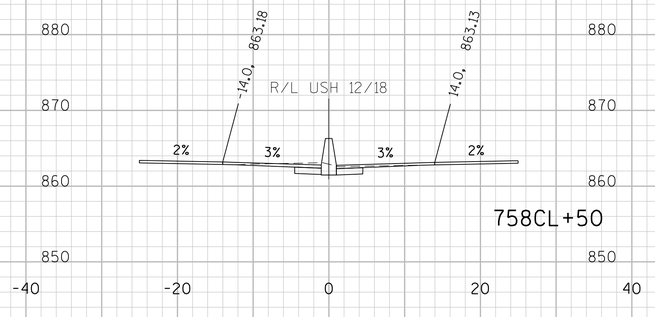
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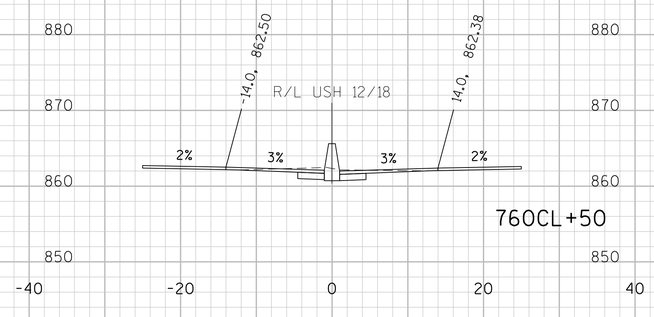
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

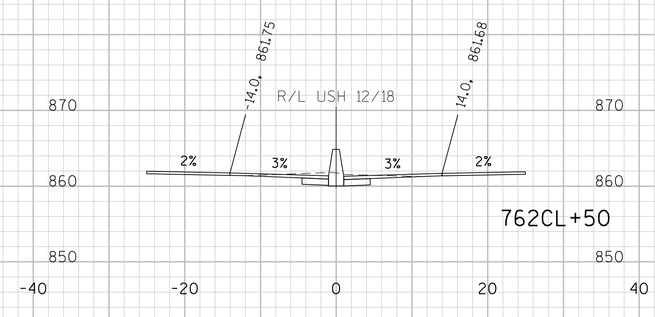


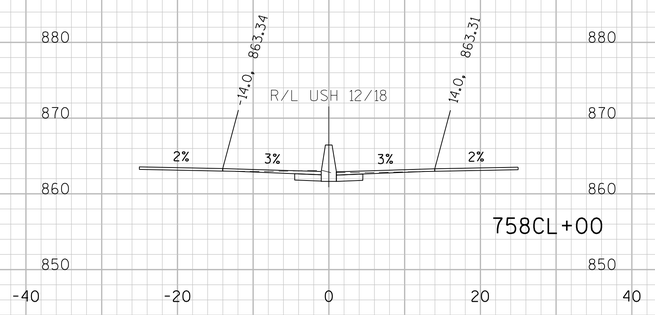


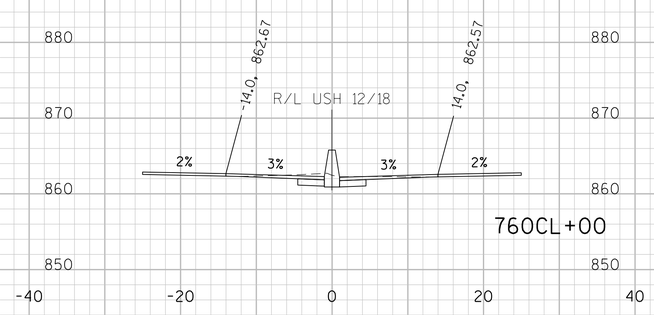


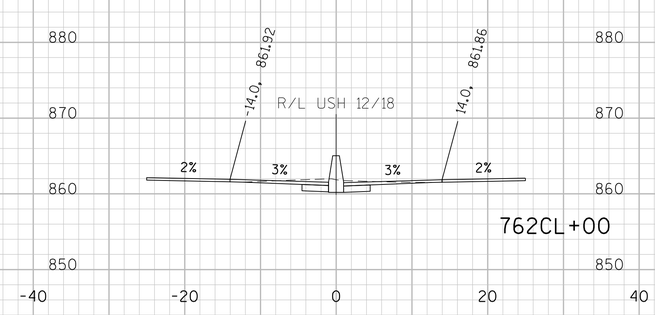


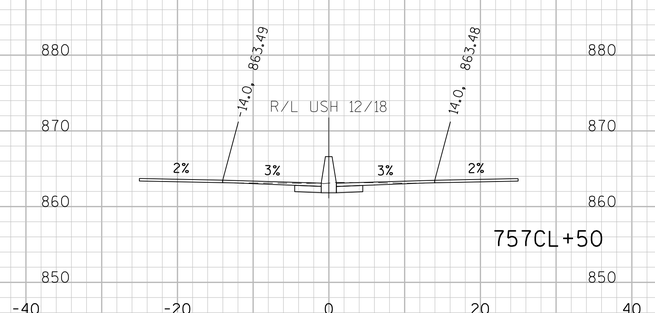


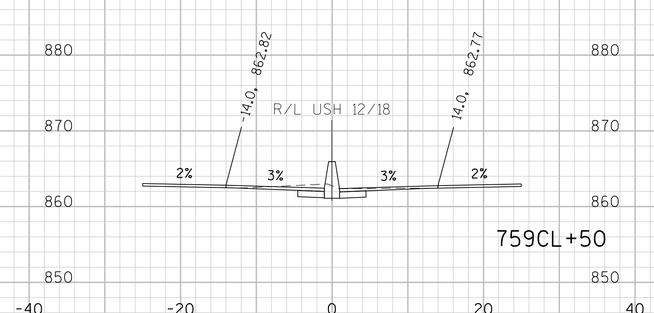


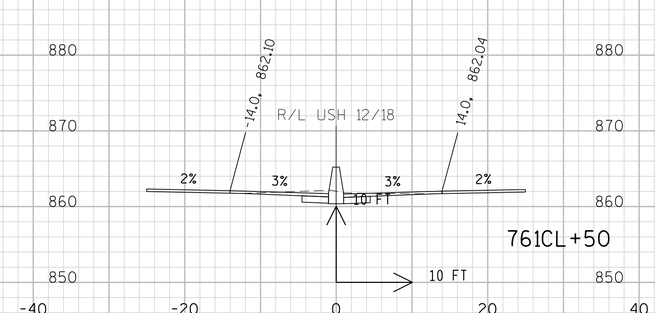








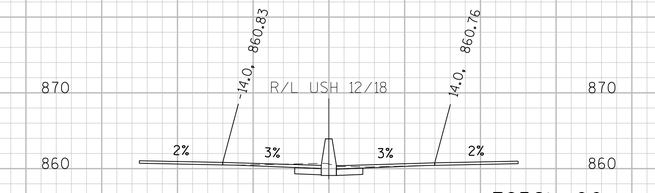




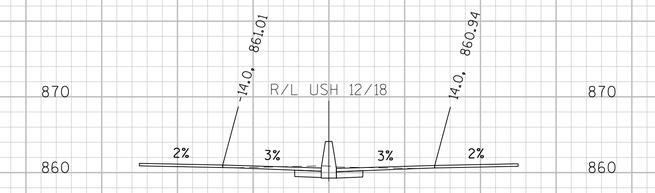
STA 757CL+50 TO 763CL+00

PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

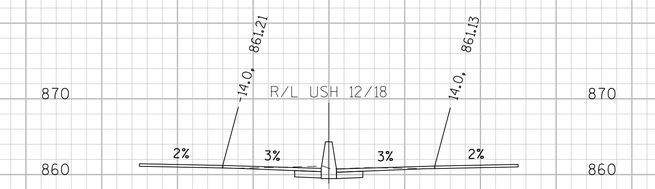
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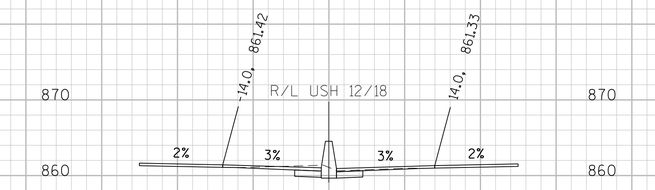
765CL+00



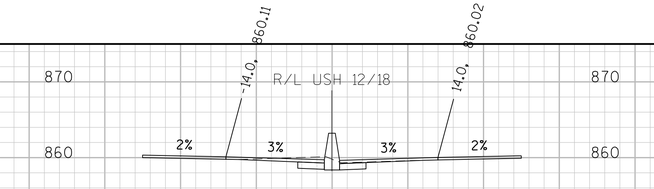
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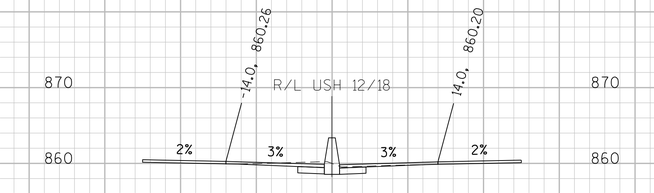
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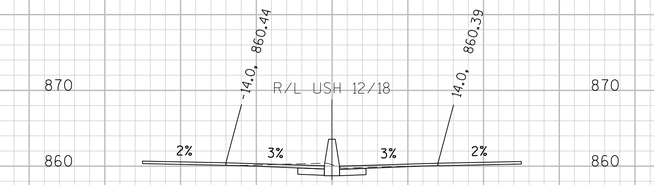
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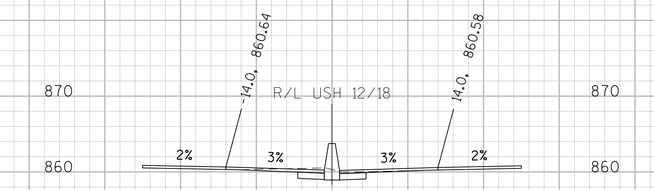
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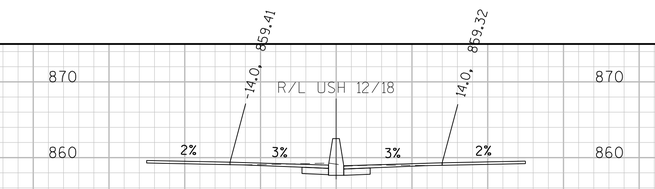
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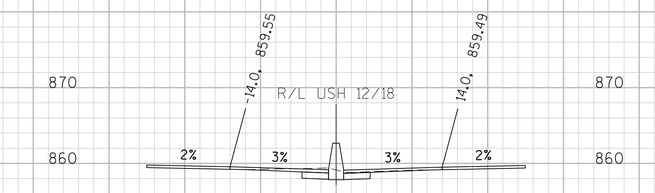
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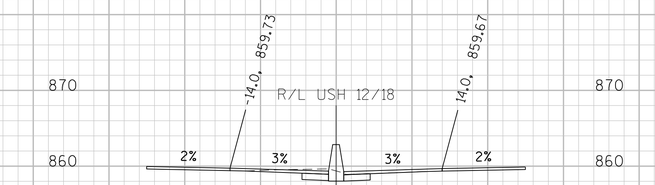
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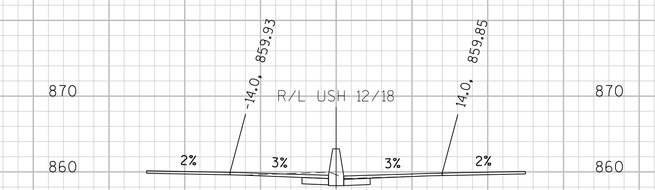
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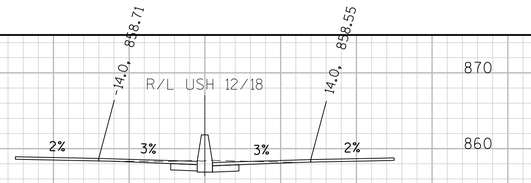
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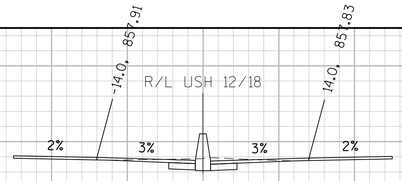
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STA 763CL+50 TO 769CL+00

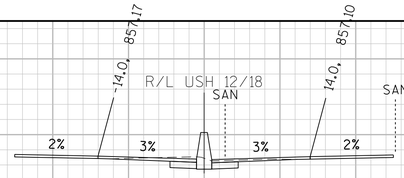
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



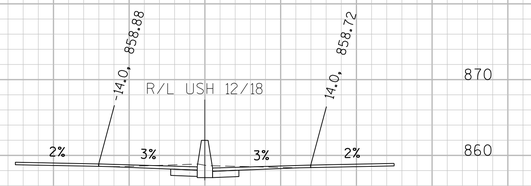
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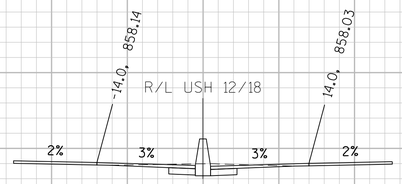
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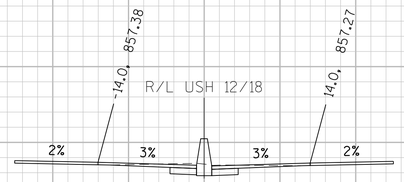
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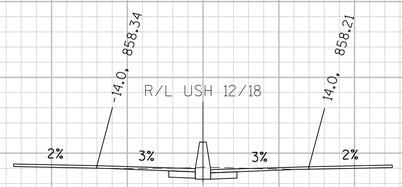
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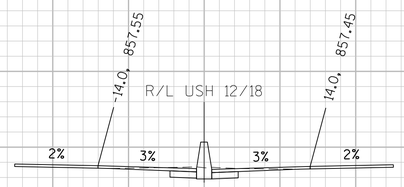
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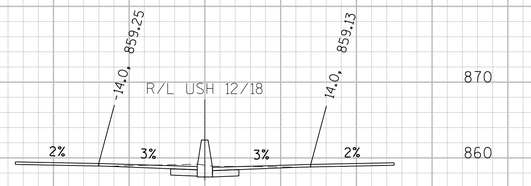
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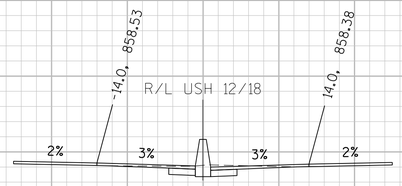
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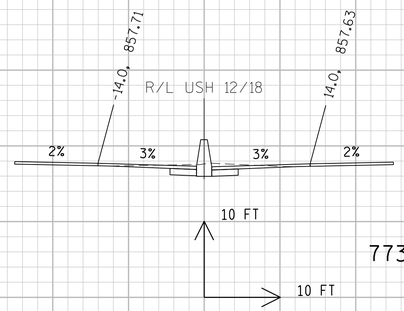
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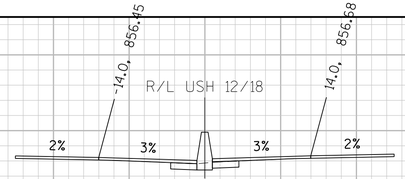
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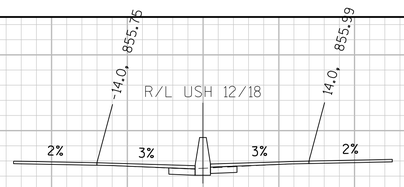
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STA 769CL+50 TO 775CL+00

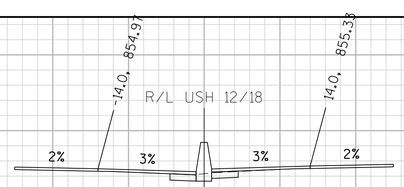
PROJECT NO:1206-04-62	HWY:USH 12	COUNTY:DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



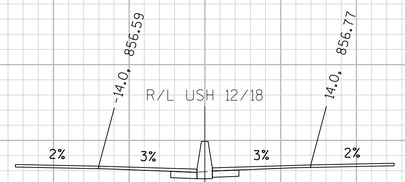
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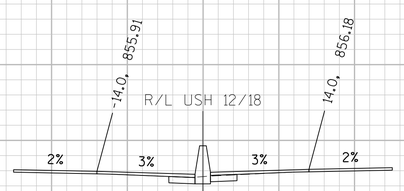
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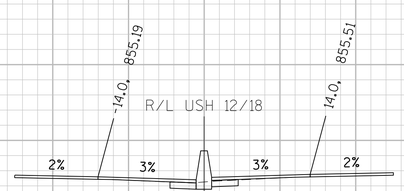
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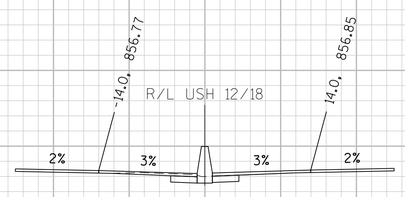
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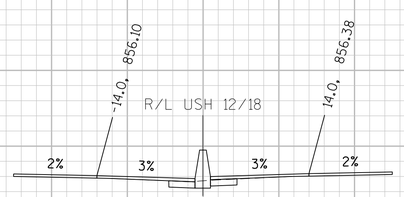
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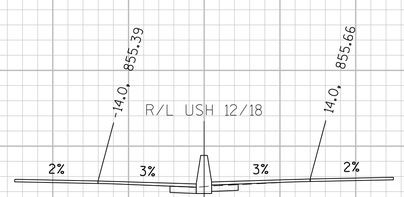
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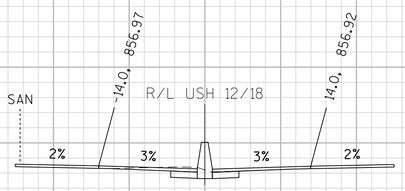
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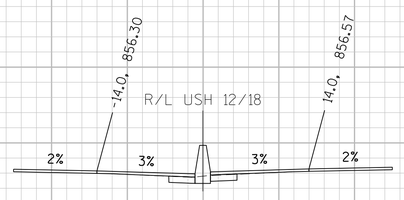
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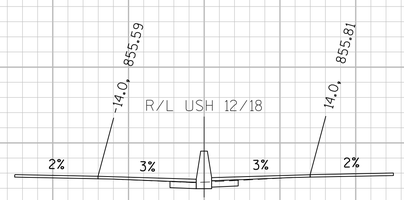
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775CL+50



777CL+50



779CL+50

STA 775CL+50 TO 781CL+00

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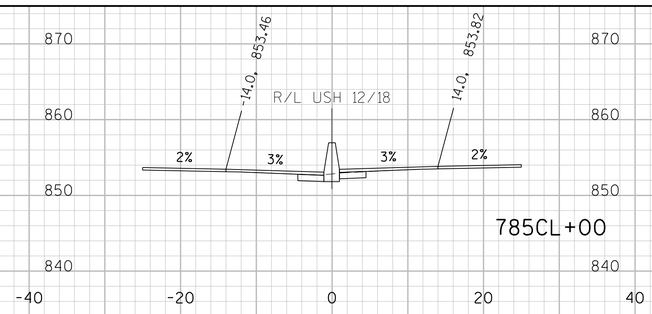
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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

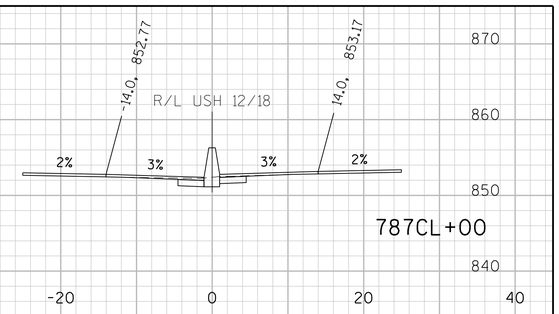
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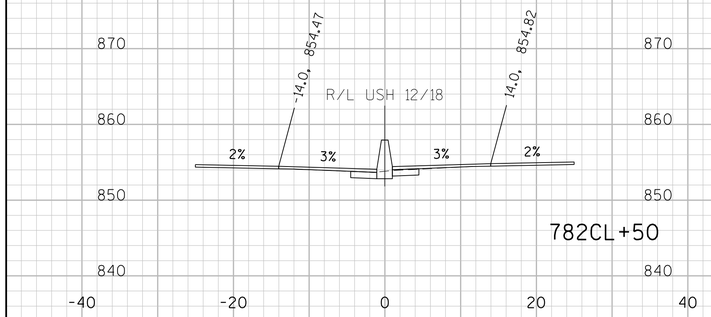
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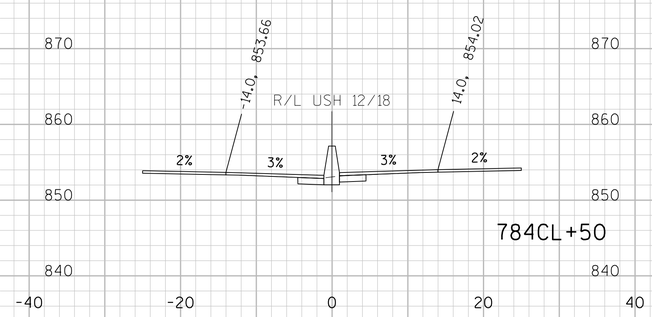
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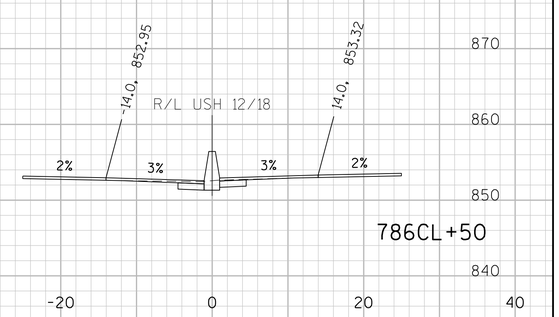
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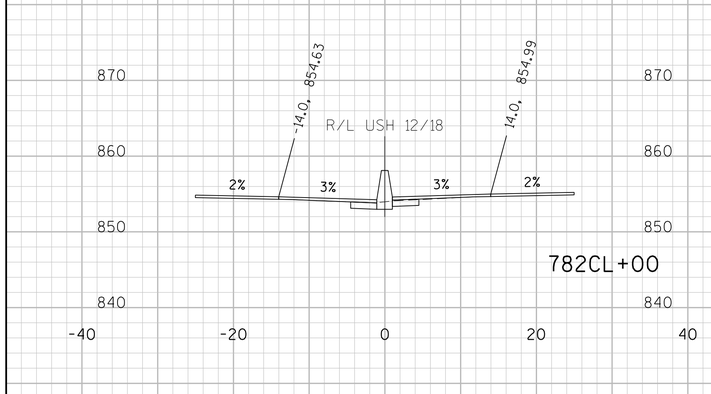
782CL+50



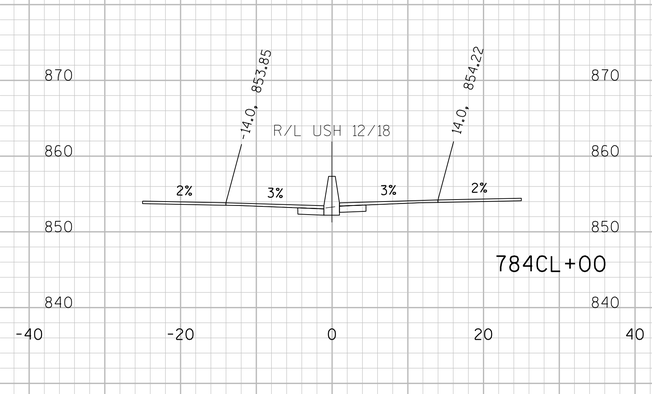
784CL+50



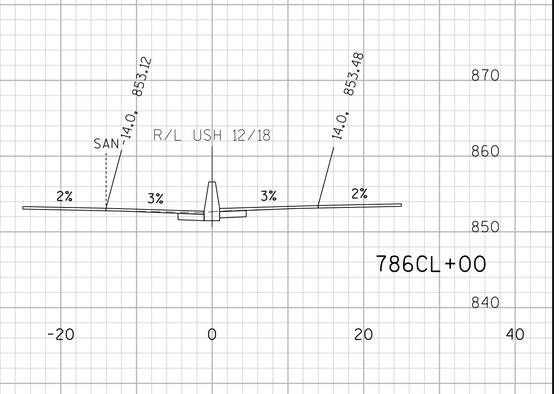
786CL+50



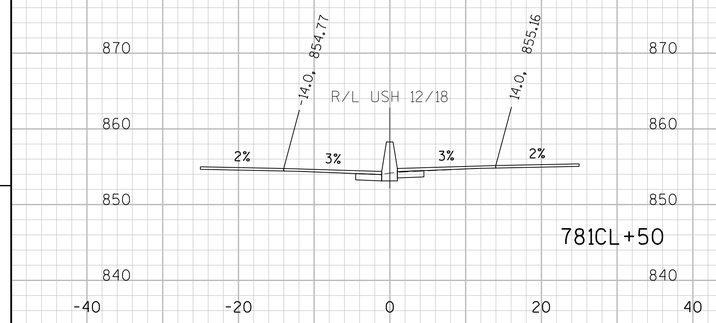
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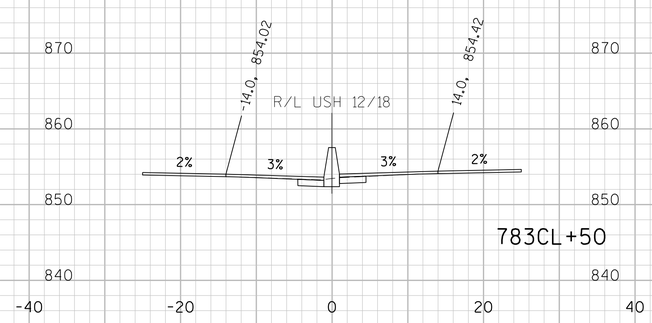
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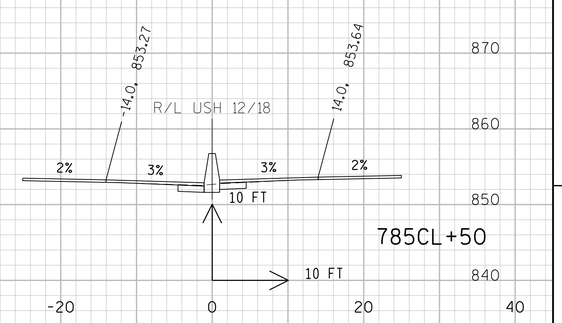
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781CL+50



783CL+50



785CL+50

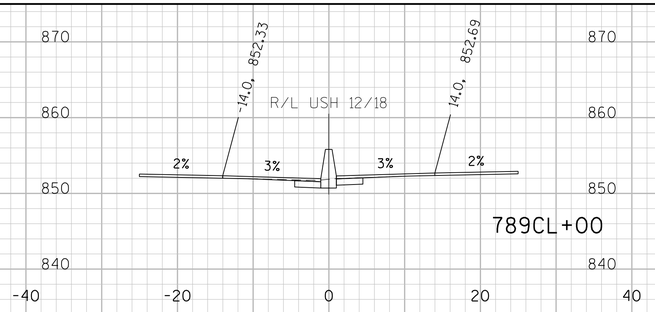
STA 781CL+50 TO 787CL+00

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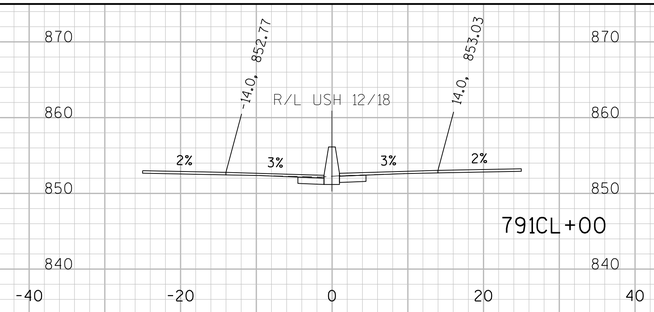
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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

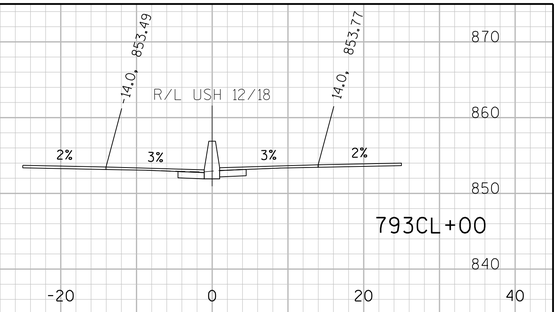
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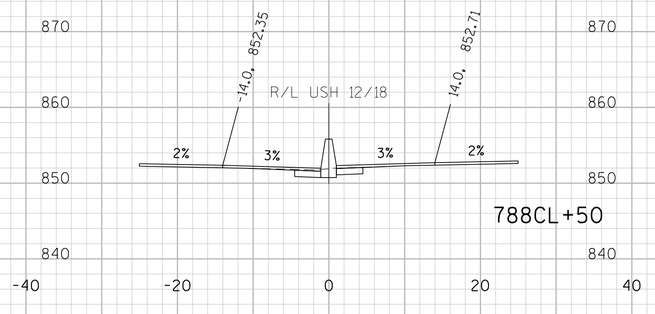
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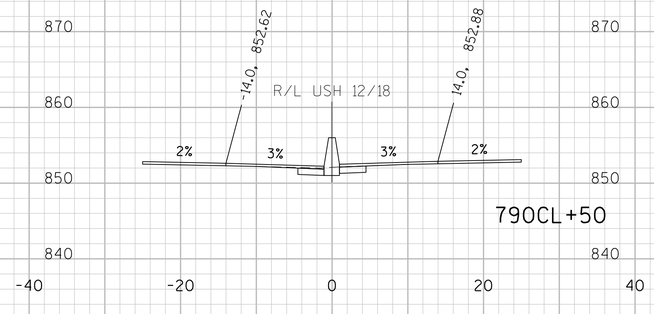
791CL+00



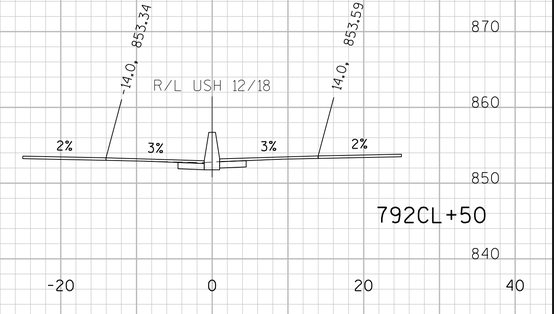
793CL+00



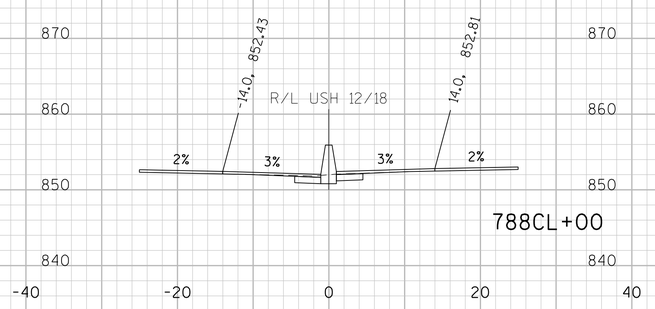
788CL+50



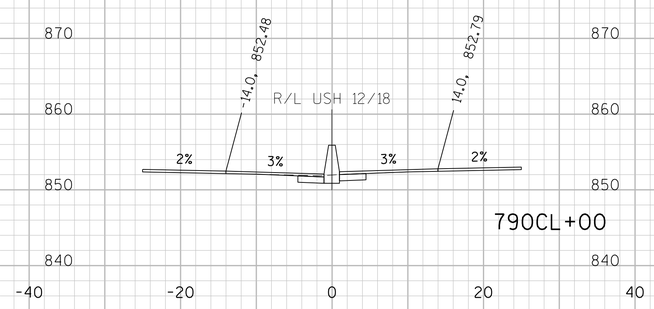
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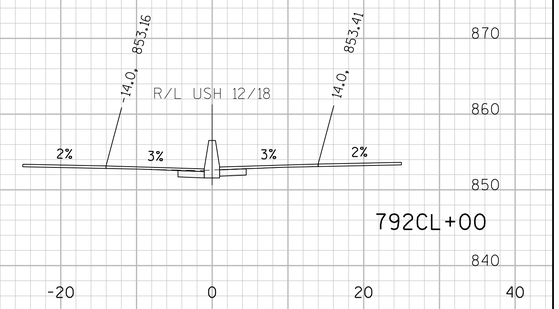
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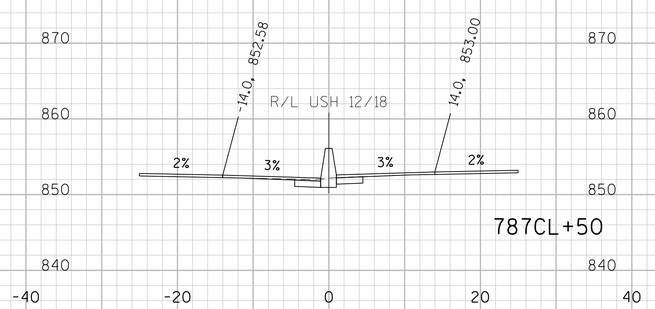
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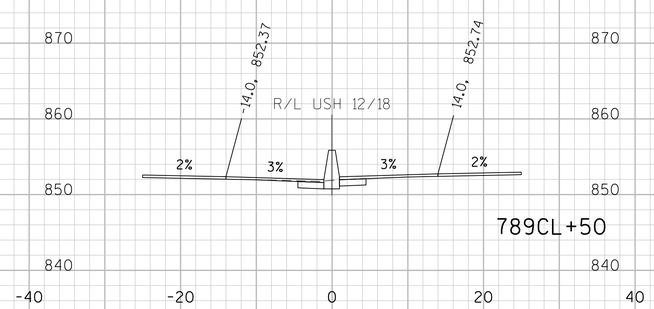
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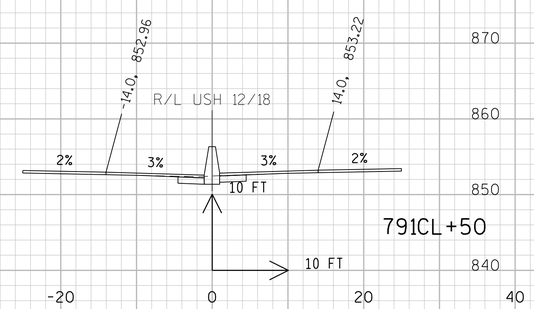
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787CL+50



789CL+50



791CL+50

STA 787CL+50 TO 793CL+00

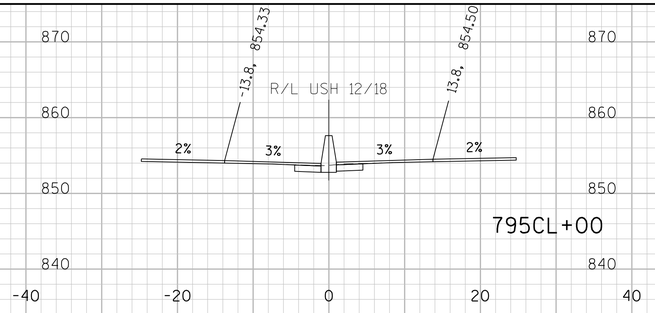
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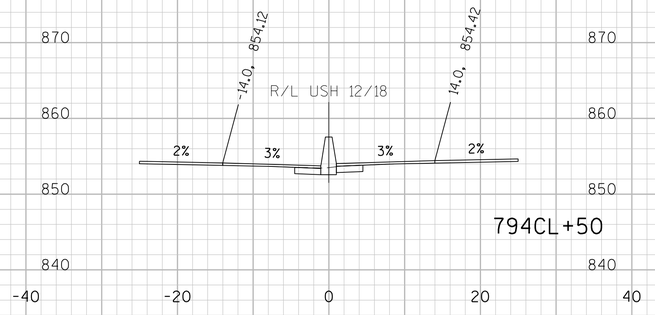
PROJECT NO:1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\090201_xs.dgn PLOT DATE : 2/17/2020 9:47:25 AM PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 10:1

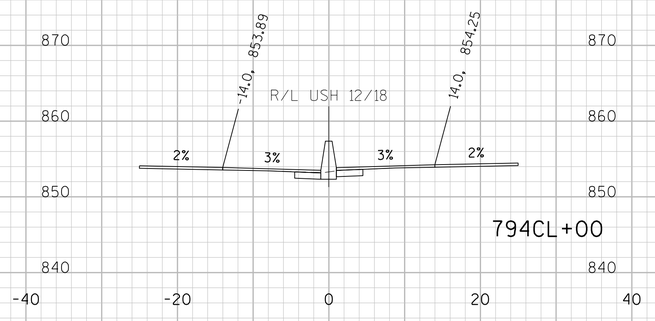
YAHARA RIVER BRIDGE
B-13-315 (EB) / B-13-316 (WB)



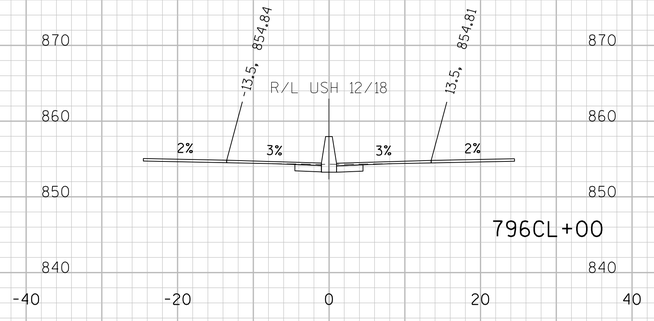
795CL+00



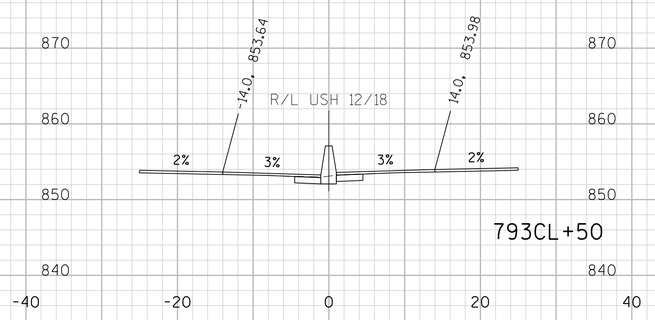
794CL+50



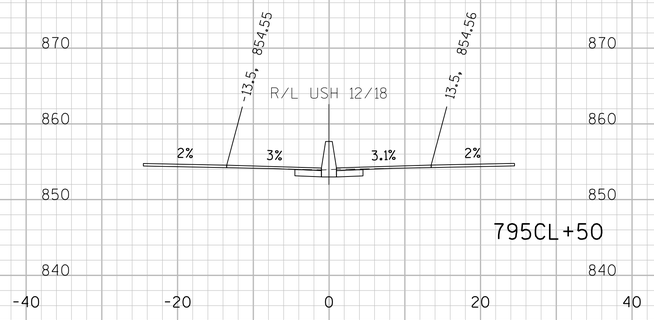
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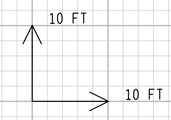
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793CL+50



795CL+50

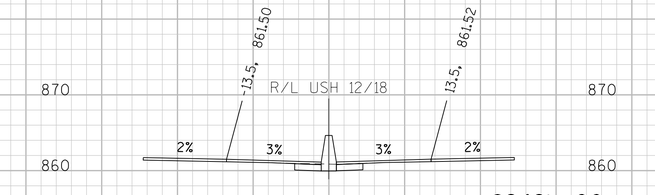


STA 793CL+50 TO 796CL+00

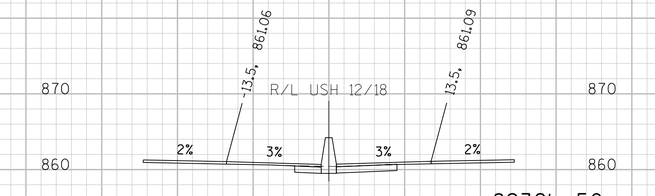
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

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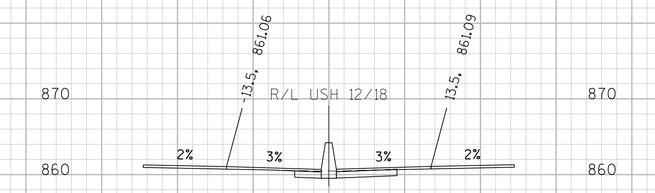
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WISDOT/CADDS SHEET 21



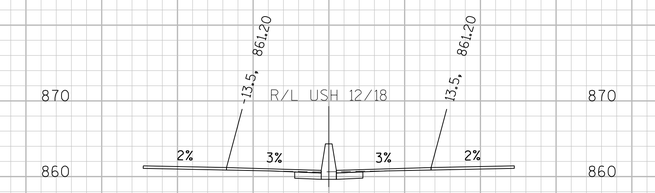
824CL+00



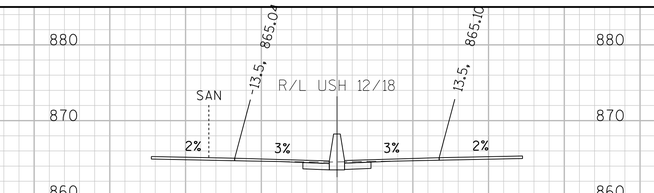
823CL+50



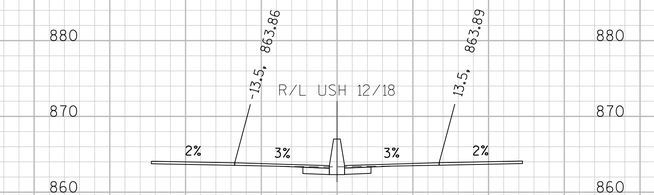
823CL+00



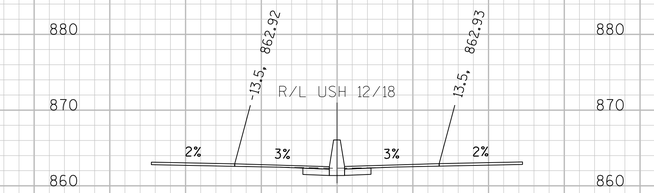
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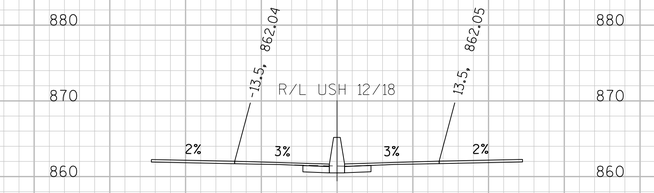
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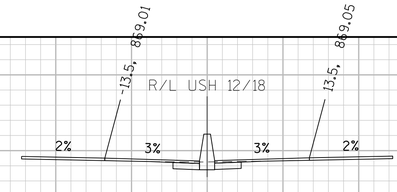
825CL+50



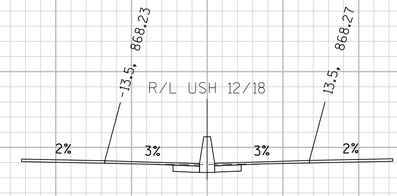
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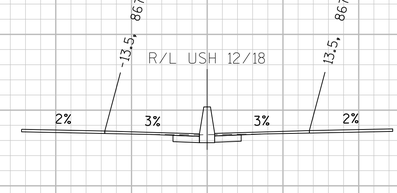
824CL+50



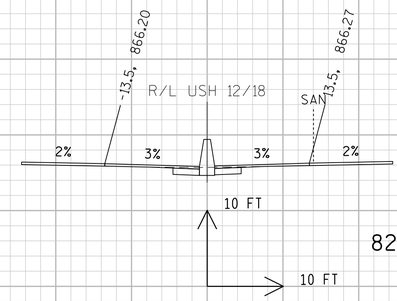
828CL+00



827CL+50



827CL+00



826CL+50

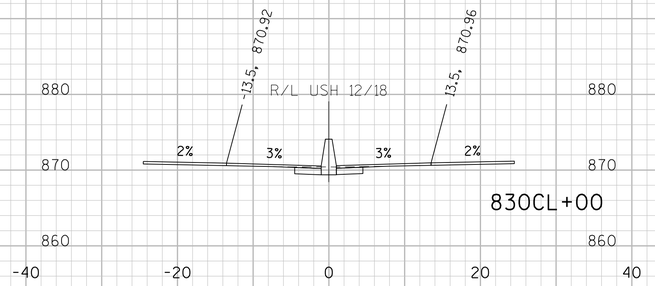
STA 822CL+50 TO 828CL+00

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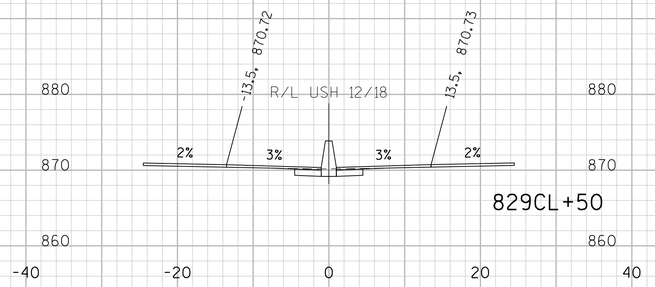
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PROJECT NO:1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

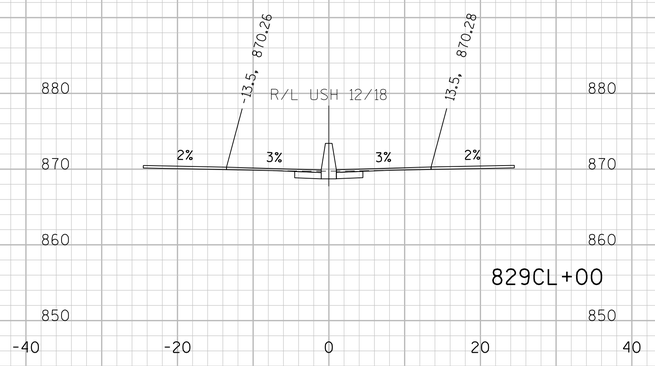
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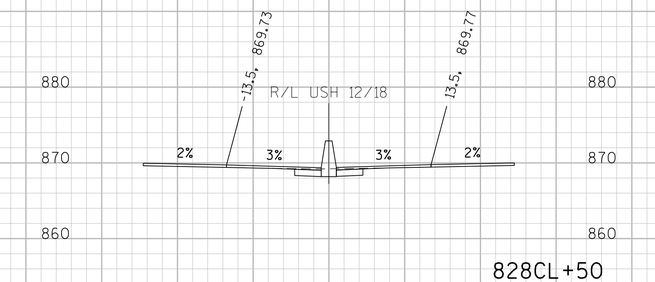
830CL+00



829CL+50

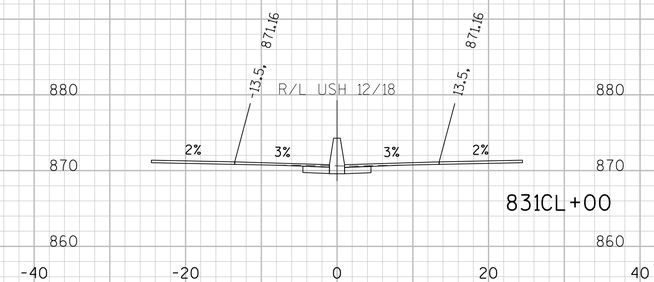


829CL+00

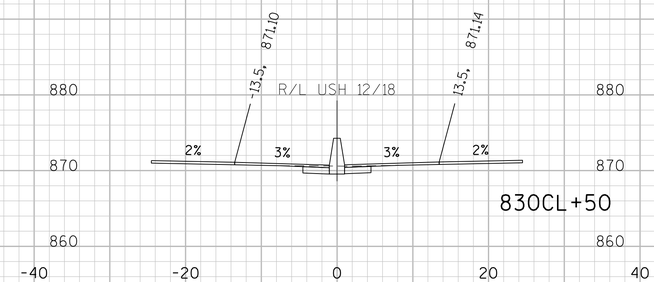


828CL+50

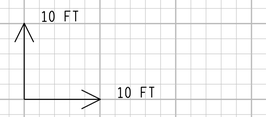
MONONA DRIVE BRIDGE
B-13-317 (EB) / B-13-318 (WB)



831CL+00

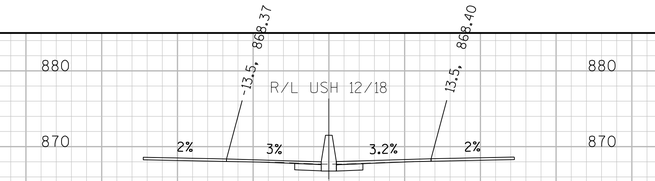


830CL+50

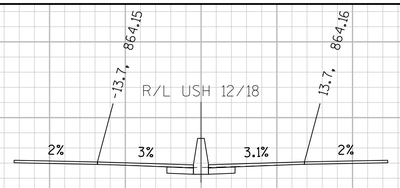


STA 828CL+50 TO 831CL+00

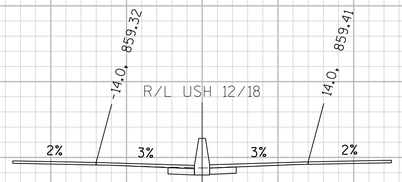
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



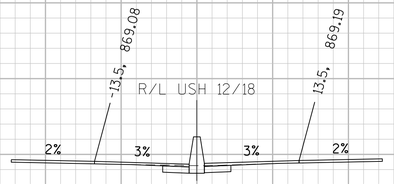
834CL+00



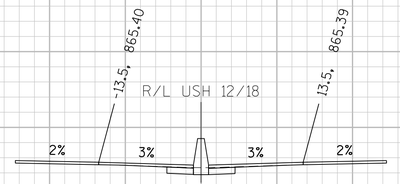
836CL+00



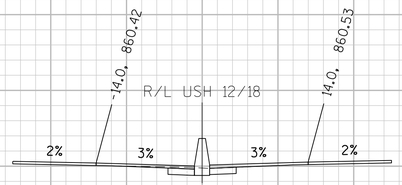
838CL+00



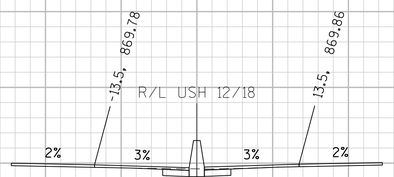
833CL+50



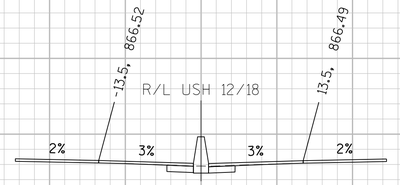
835CL+50



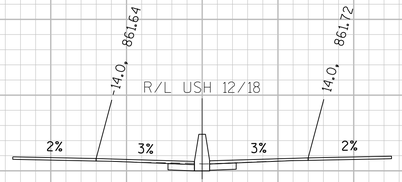
837CL+50



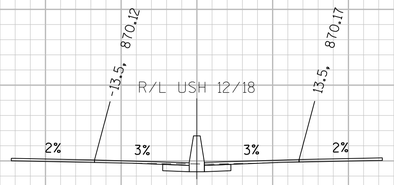
833CL+00



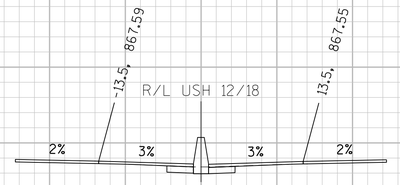
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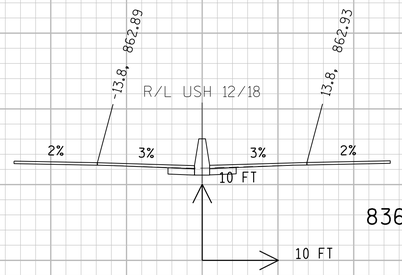
837CL+00



832+75



834CL+50



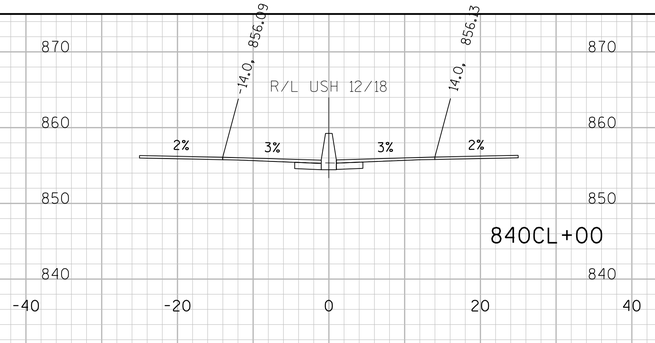
836CL+50

STA 832+75 TO 838CL+00

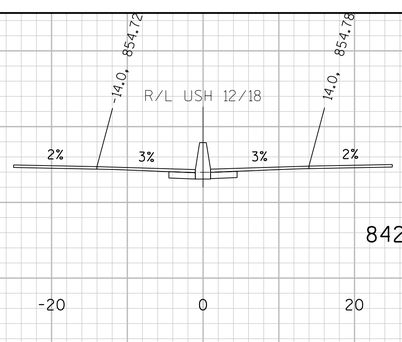
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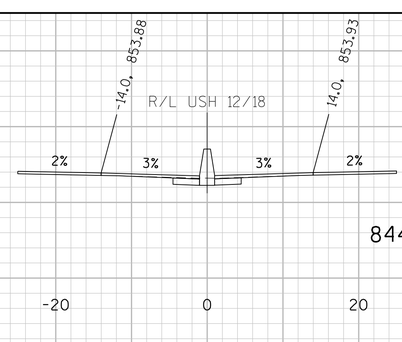
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



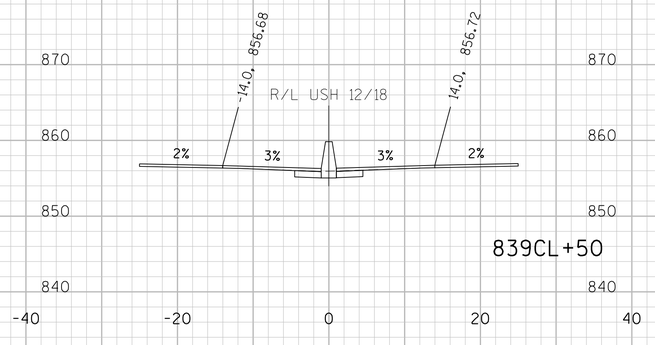
840CL+00



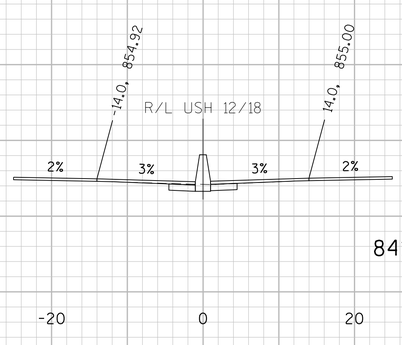
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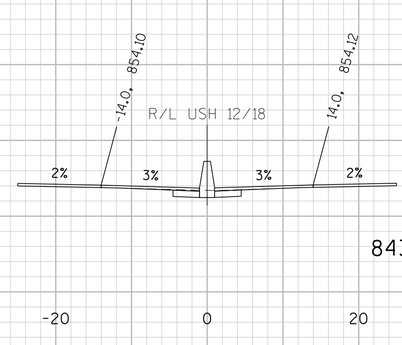
844CL+00



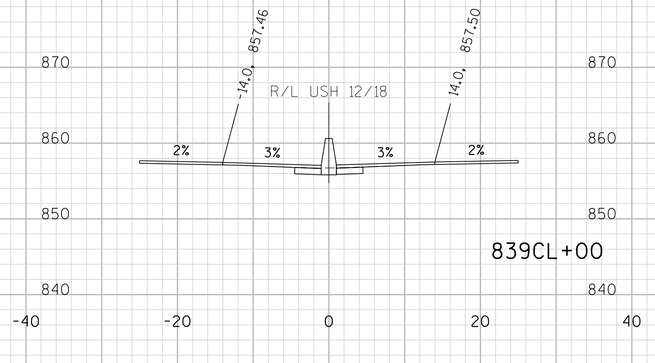
839CL+50



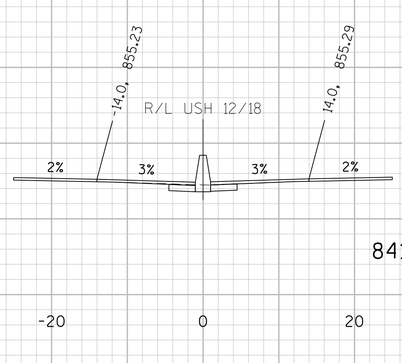
841CL+50



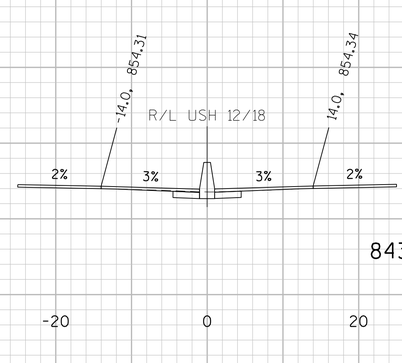
843CL+50



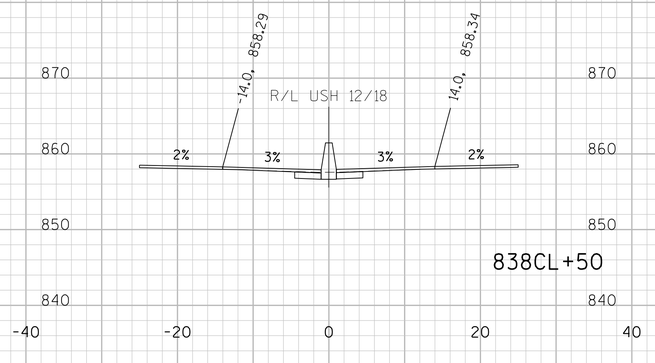
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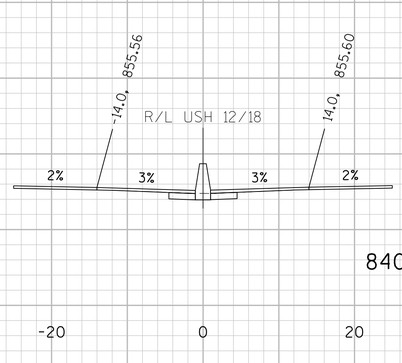
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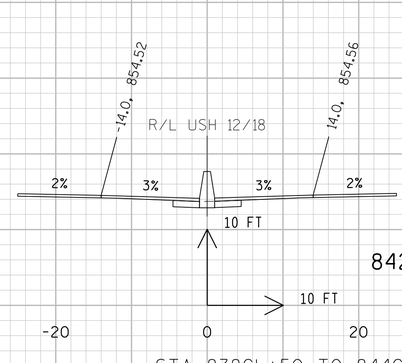
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838CL+50



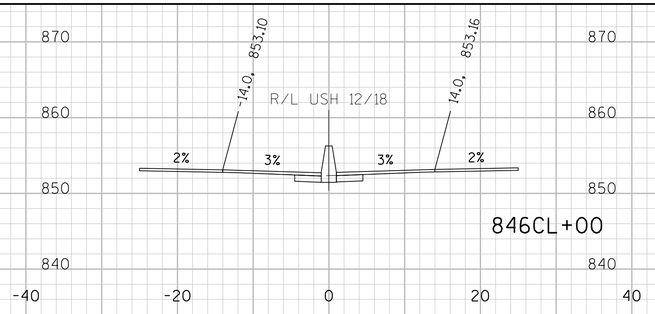
840CL+50



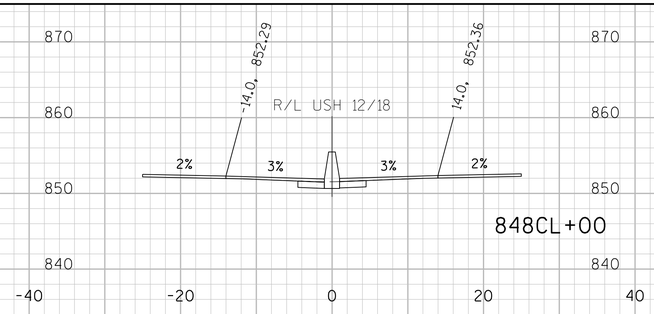
842CL+50

STA 838CL+50 TO 844CL+00

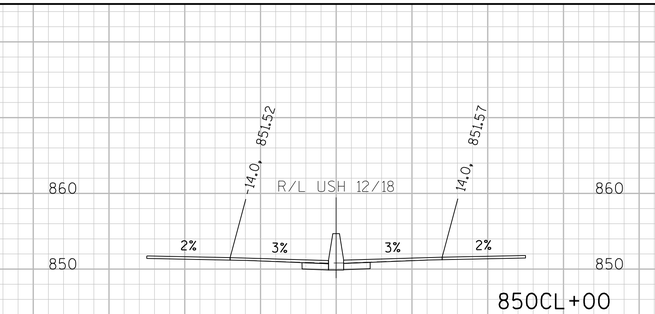
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



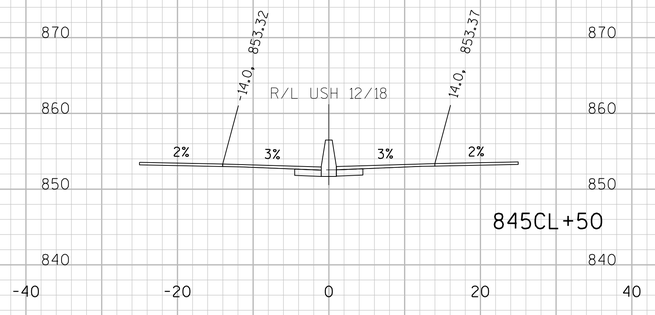
846CL+00



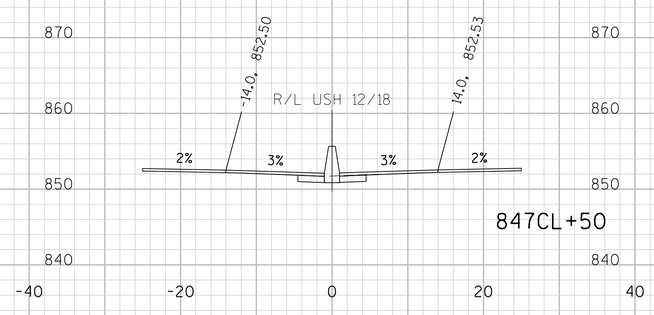
848CL+00



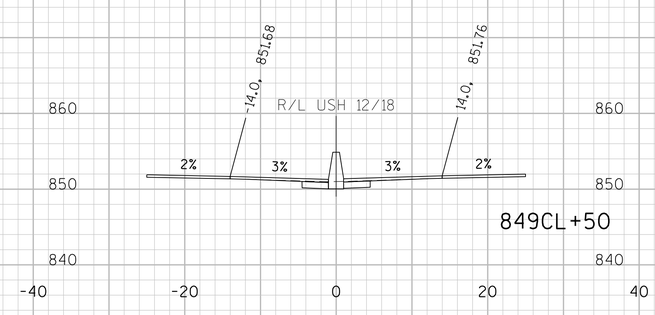
850CL+00



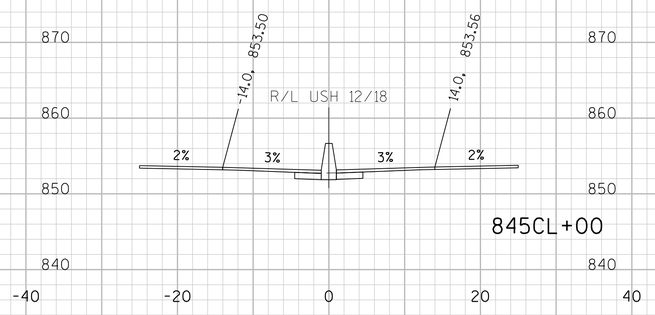
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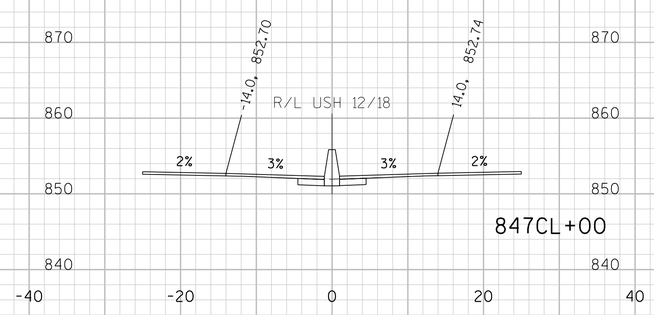
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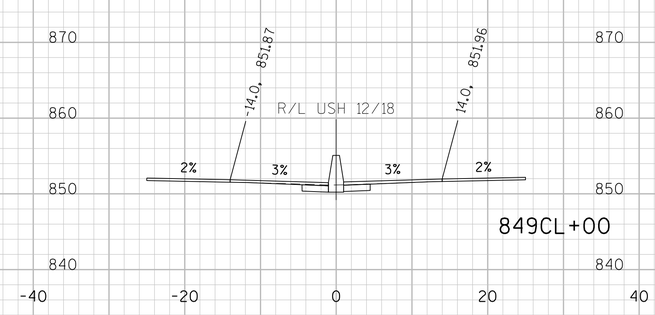
849CL+50



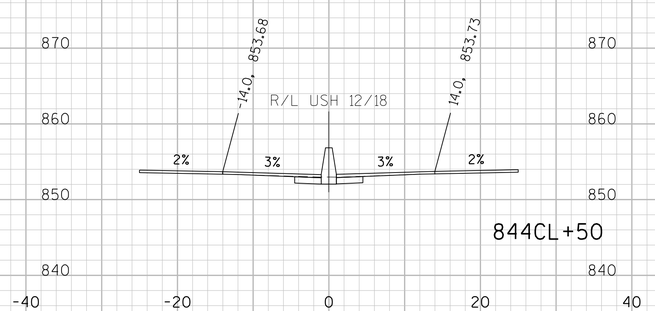
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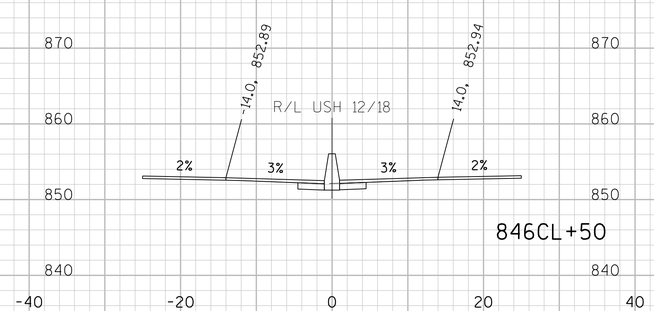
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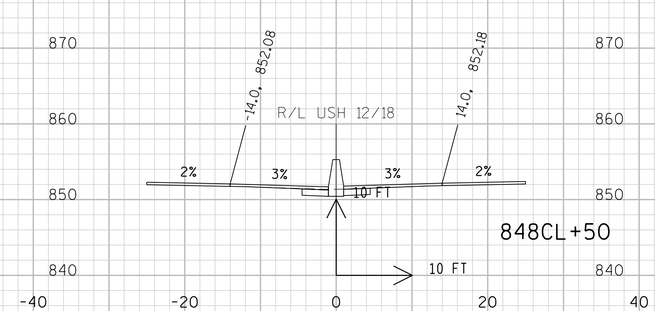
849CL+00



844CL+50



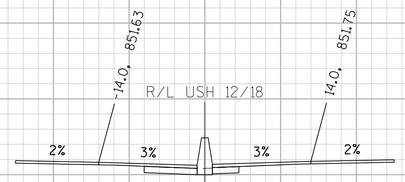
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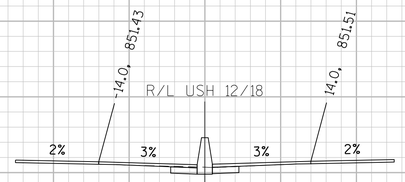
848CL+50

STA 844CL+50 TO 850CL+00

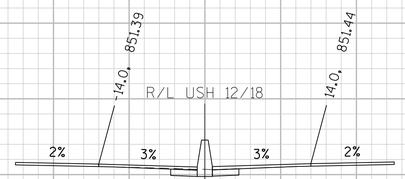
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



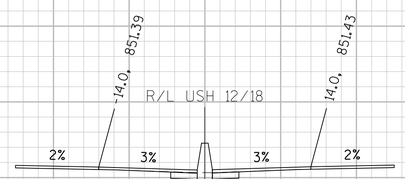
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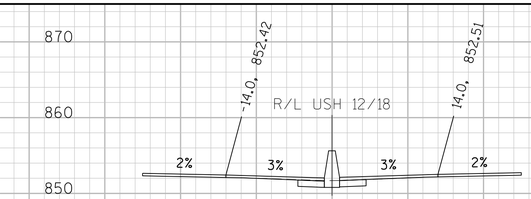
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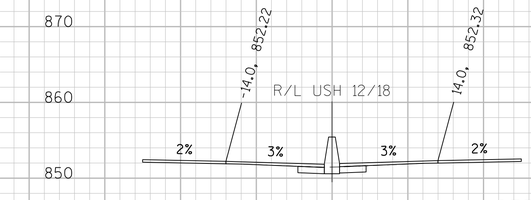
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850CL+50



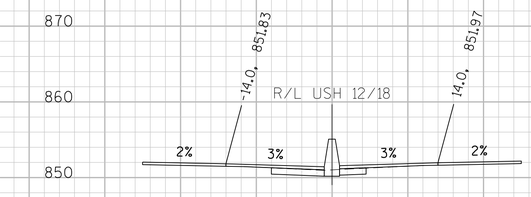
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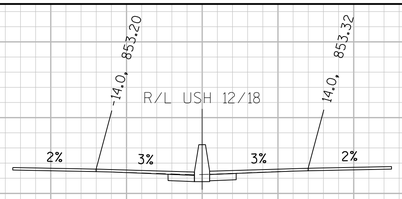
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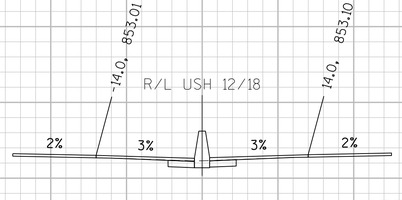
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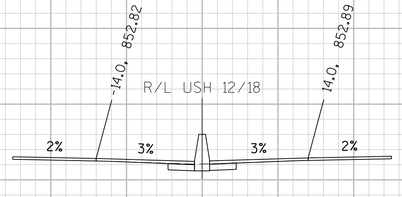
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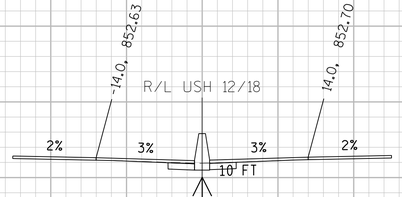
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855CL+50



855CL+00



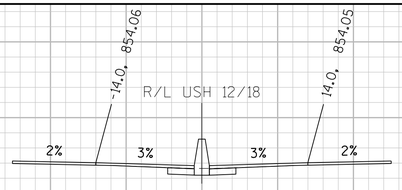
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STA 850CL+50 TO 856CL+00

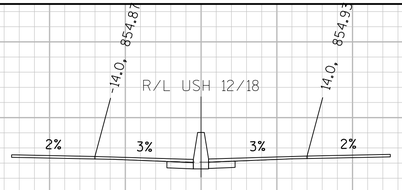
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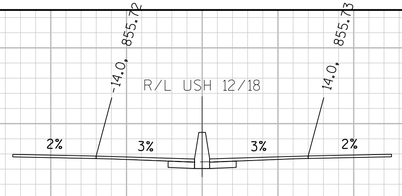
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



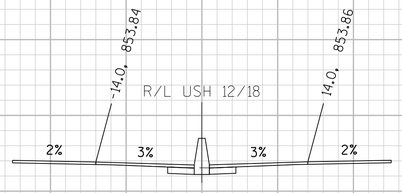
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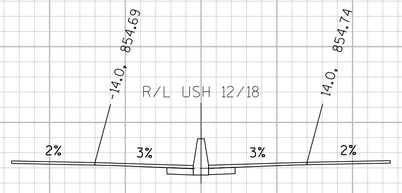
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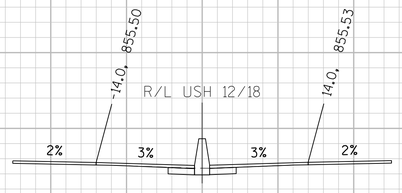
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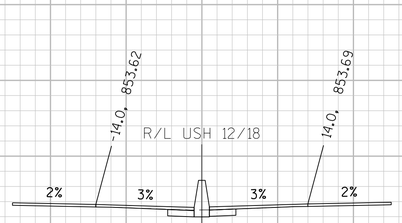
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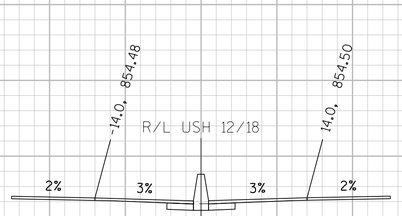
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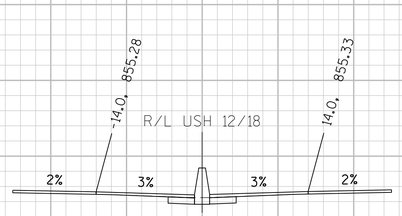
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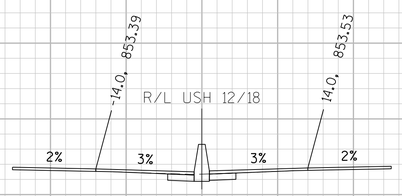
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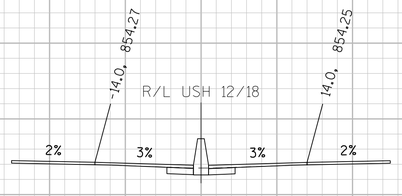
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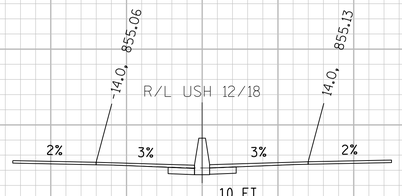
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856CL+50



858CL+50



860CL+50

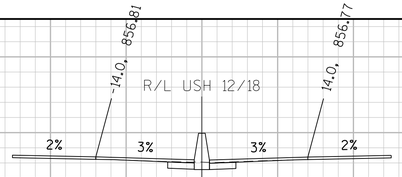
STA 856CL+50 TO 862CL+00

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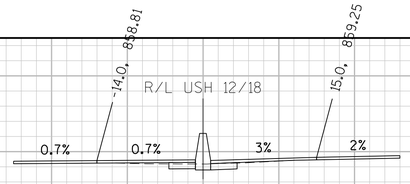
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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

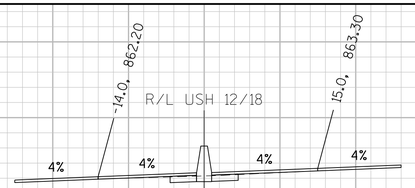
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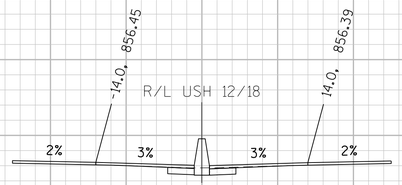
864CL+00



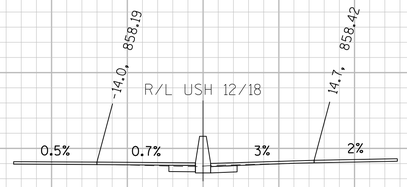
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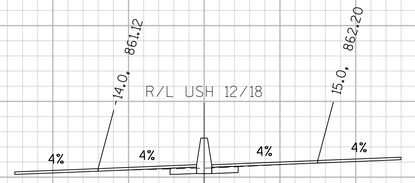
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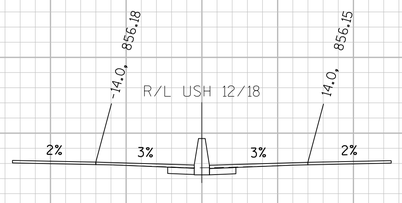
863CL+50



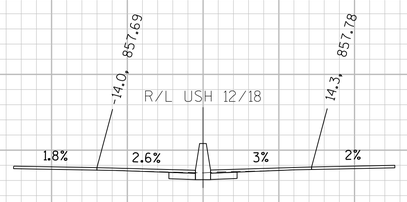
865CL+50



867CL+50



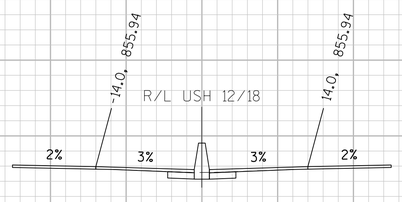
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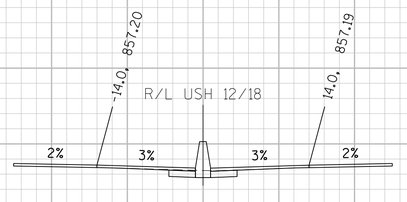
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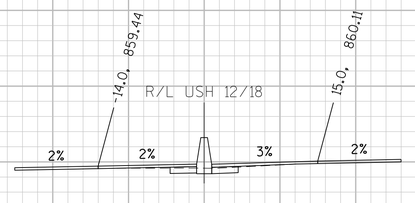
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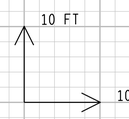
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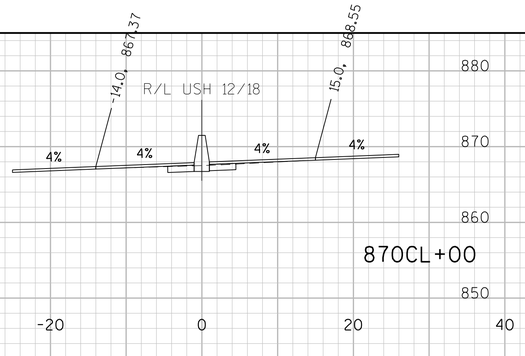


STA 862CL+50 TO 868CL+00

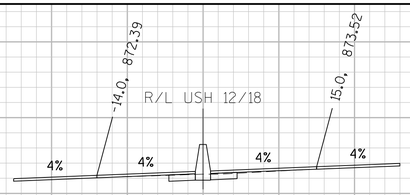
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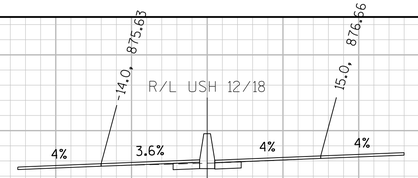
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



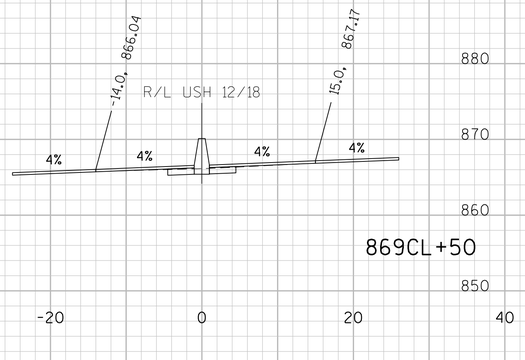
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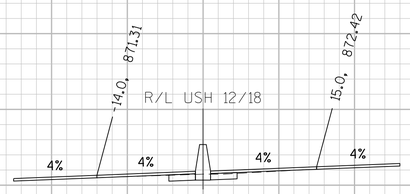
872CL+00



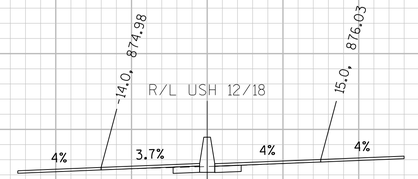
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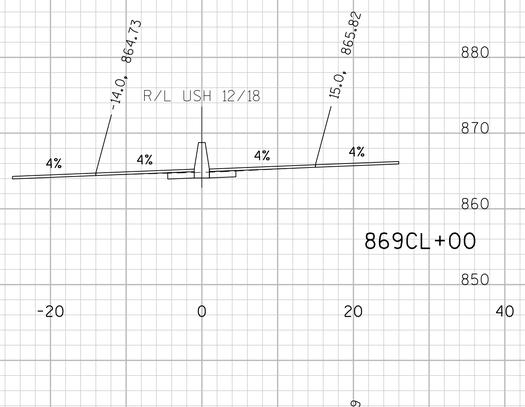
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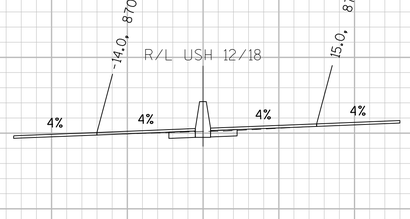
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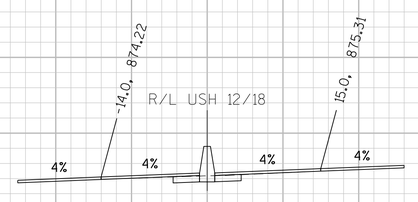
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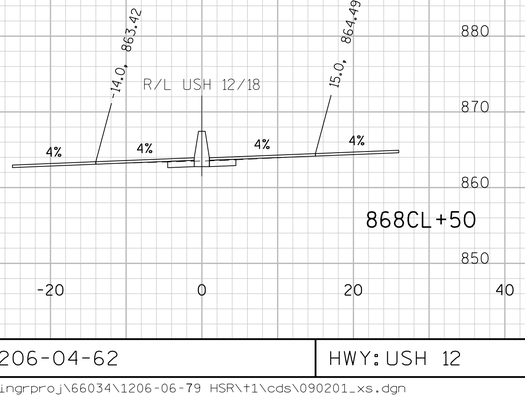
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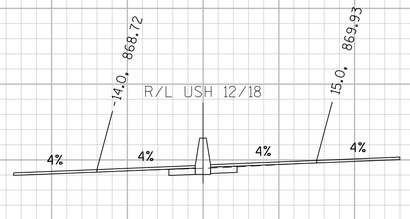
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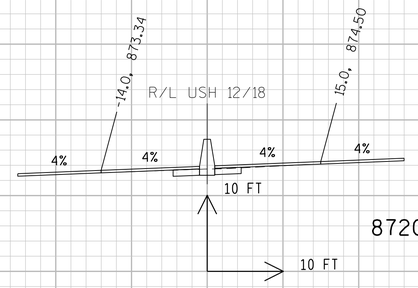
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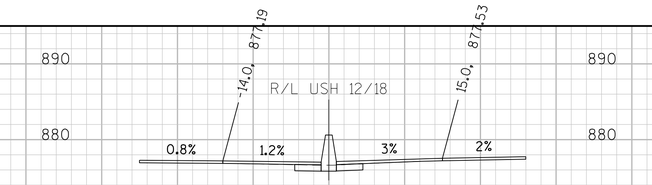
870CL+50



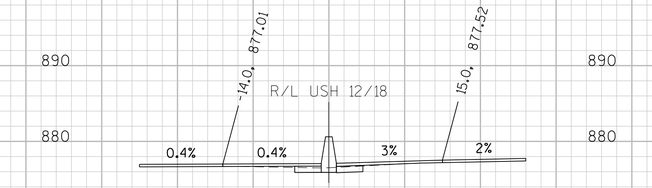
872CL+50

STA 868CL+50 TO 874CL+00

PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



876CL+00

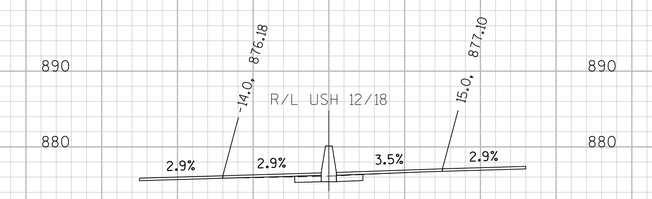


875CL+50

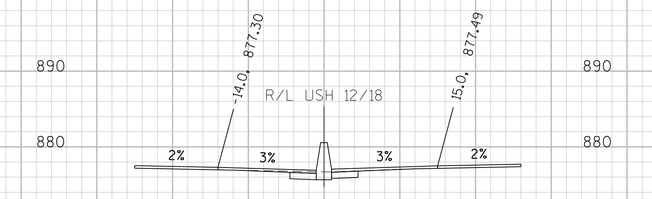
STOUGHTON ROAD BRIDGE
B-13-320 (WB) / B-13-321 (EB)

875CL+00

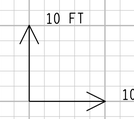
877CL+00



874CL+50



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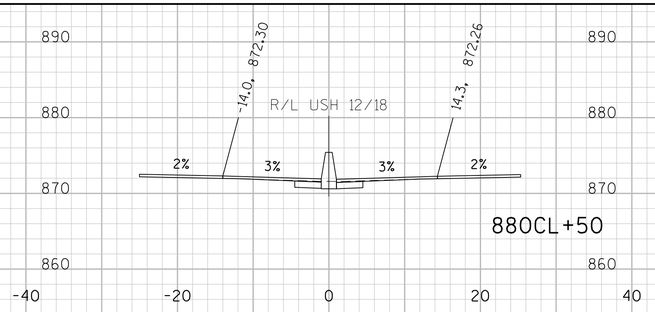


STA 874CL+50 TO 877CL+00

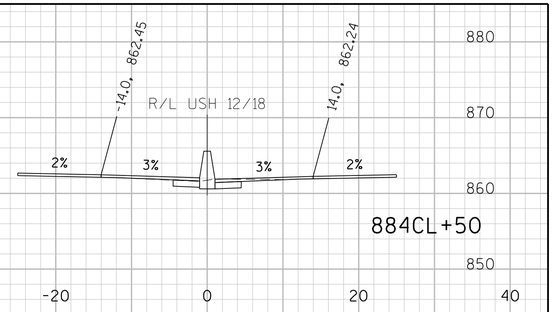
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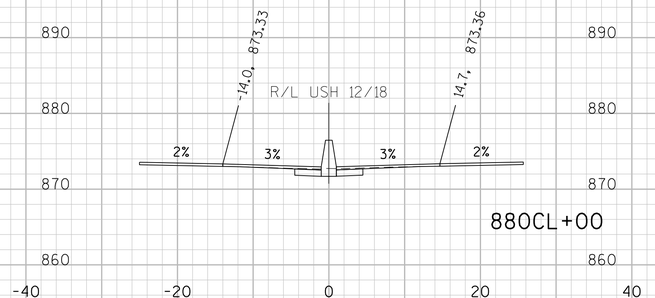
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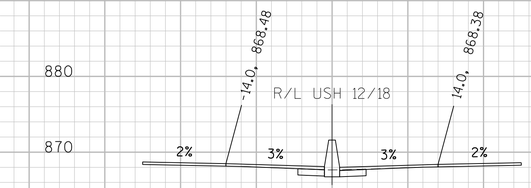
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

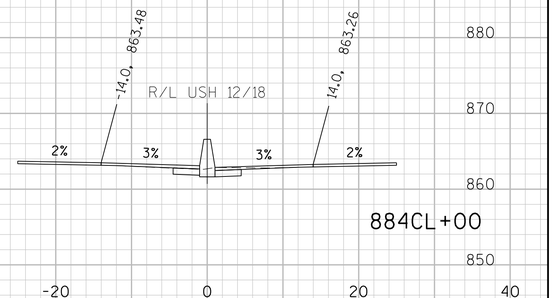


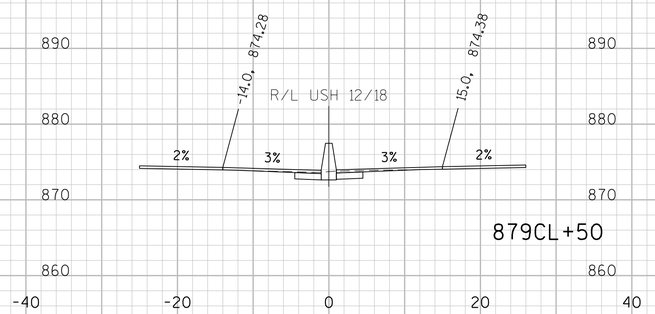


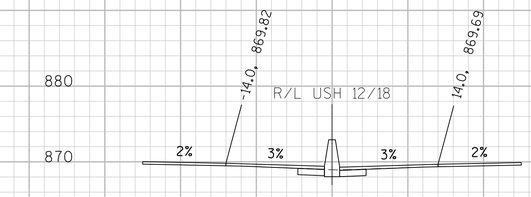


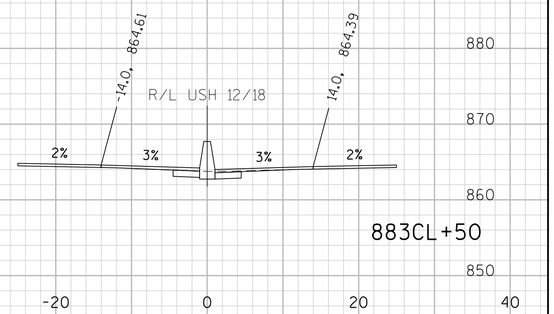


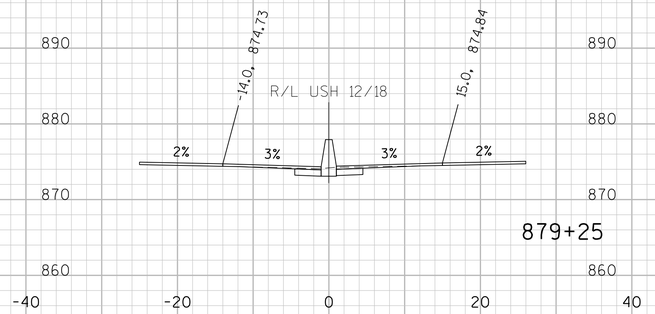




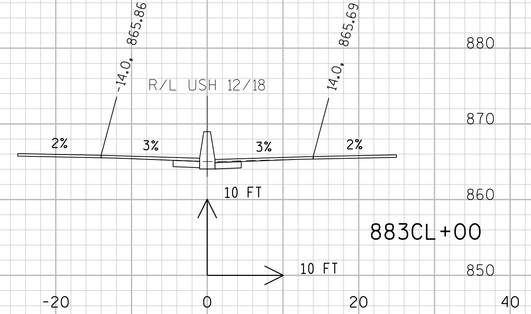






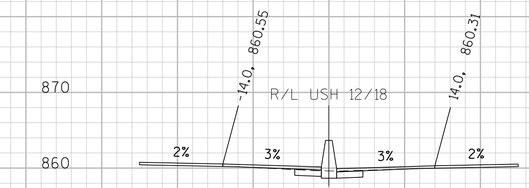




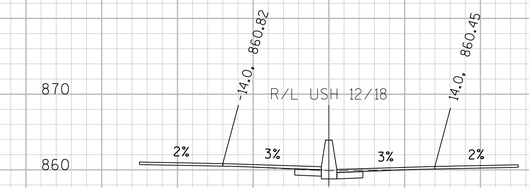


STA 879+25 TO 884CL+50

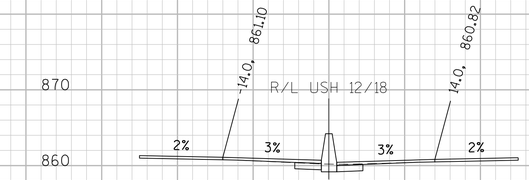
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



886CL+50



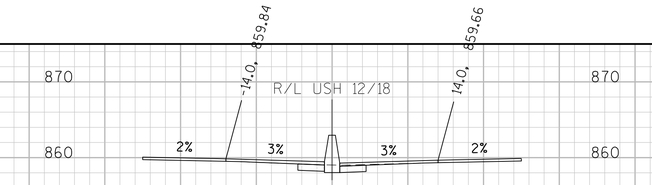
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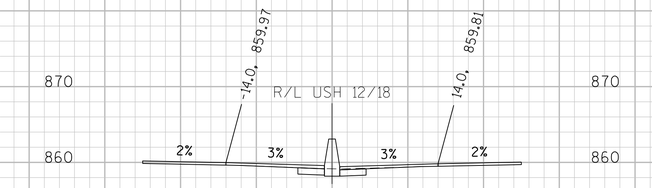
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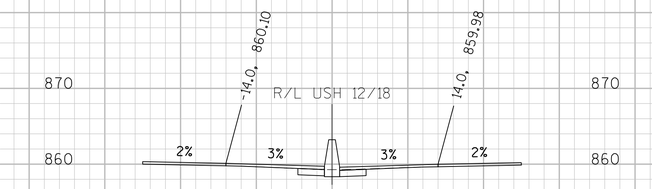
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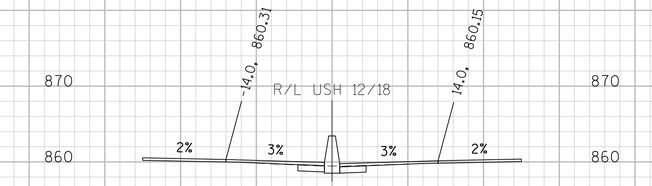
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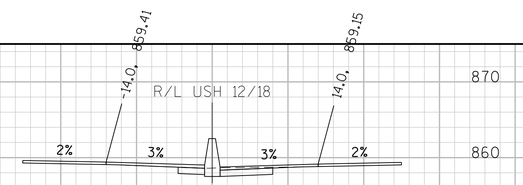
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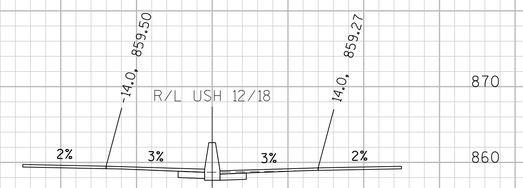
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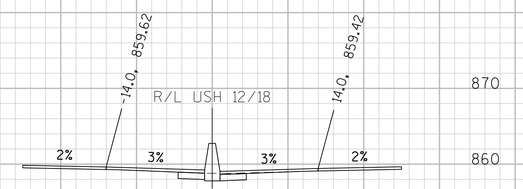
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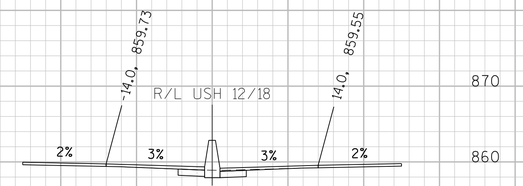
890CL+50



890CL+00



889CL+50



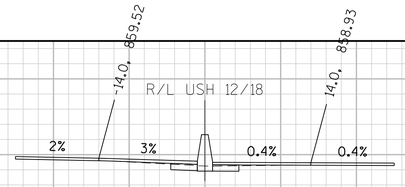
889CL+00

STA 885CL+00 TO 890CL+50

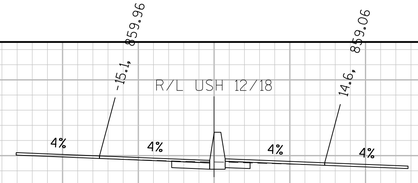
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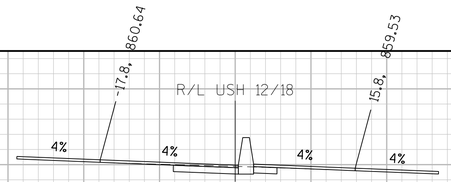
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



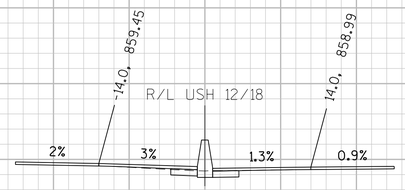
892CL+50



894CL+50



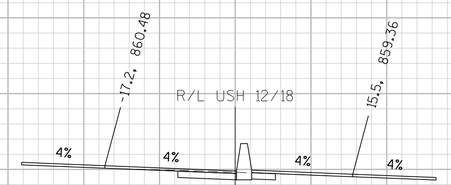
896CL+50



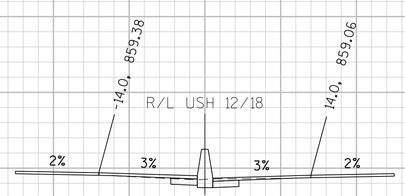
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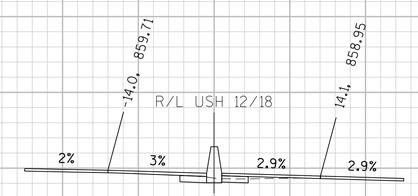
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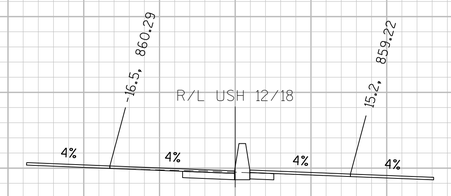
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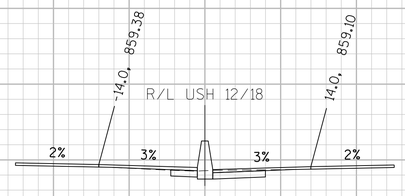
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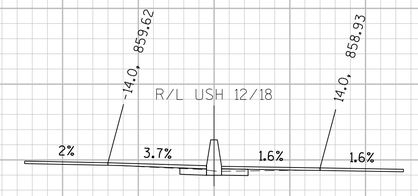
893CL+50



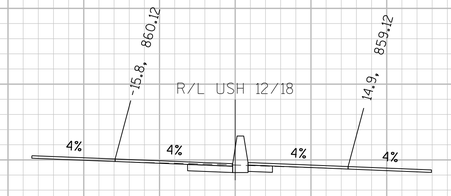
895CL+50

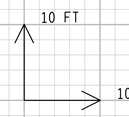


891CL+00



893CL+00





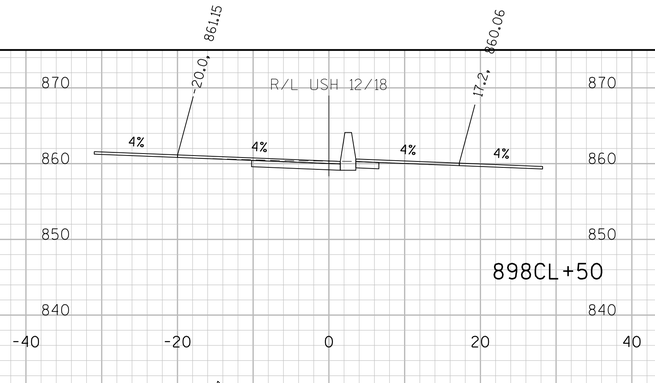
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STA 891CL+00 TO 896CL+50

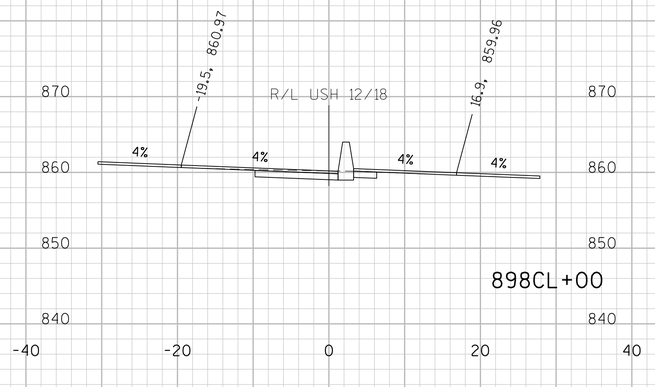
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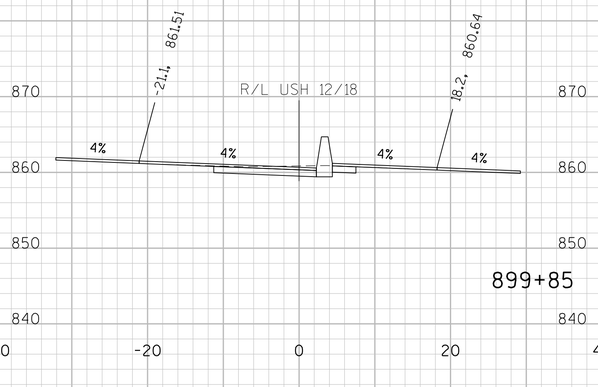
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E



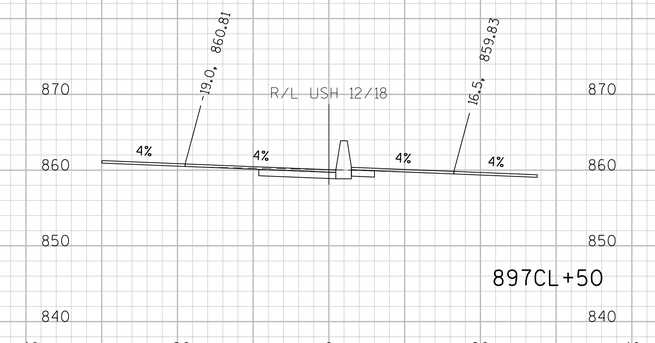
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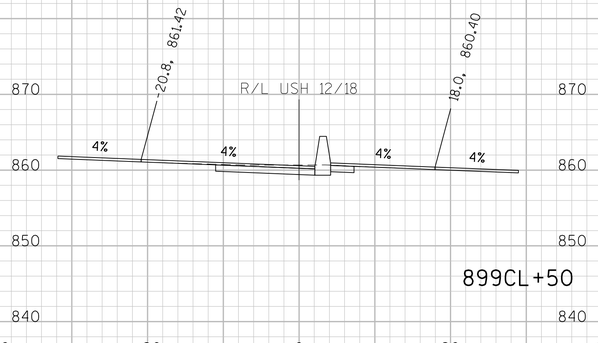
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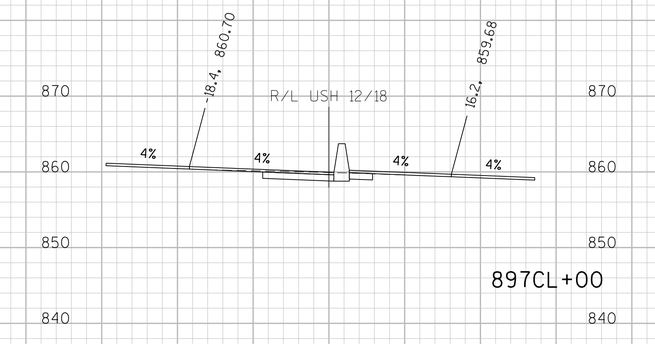
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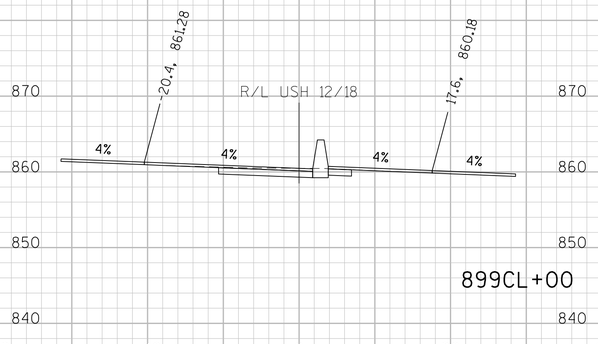
897CL+50



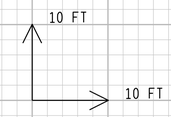
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897CL+00



899CL+00



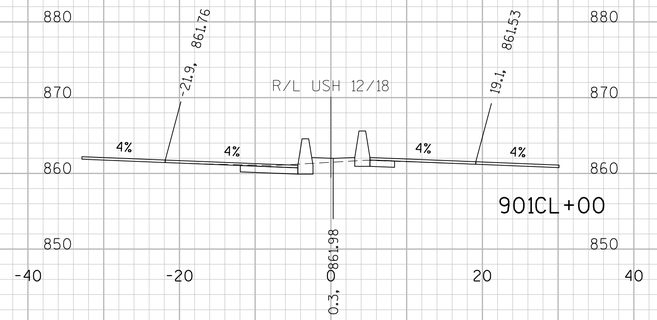
STA 897CL+00 TO 899+85

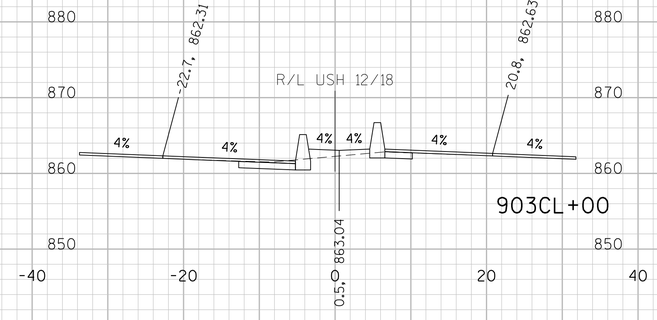
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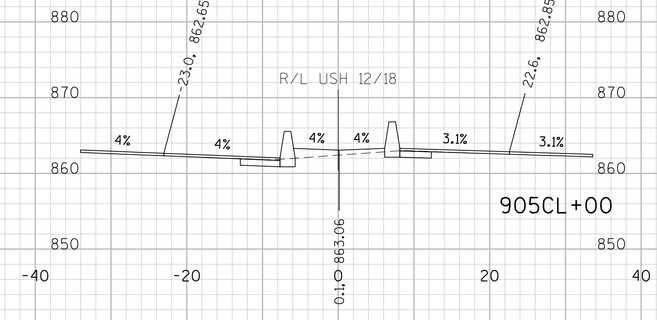
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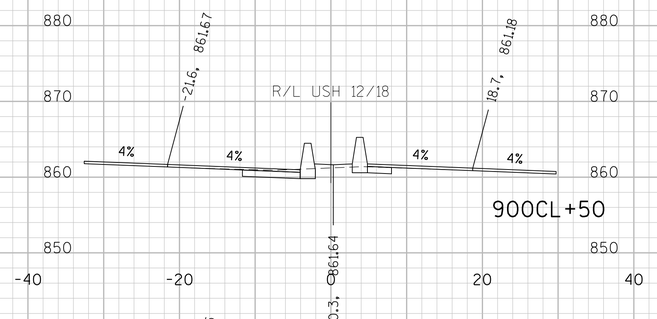
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

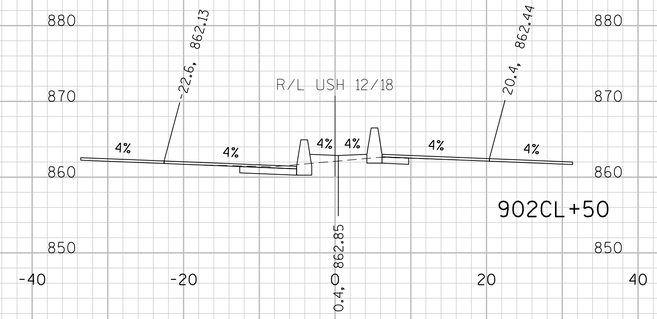
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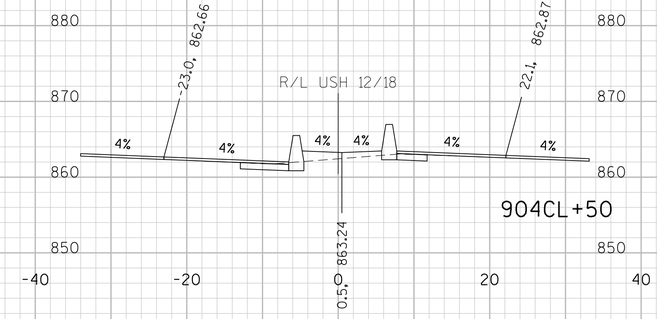


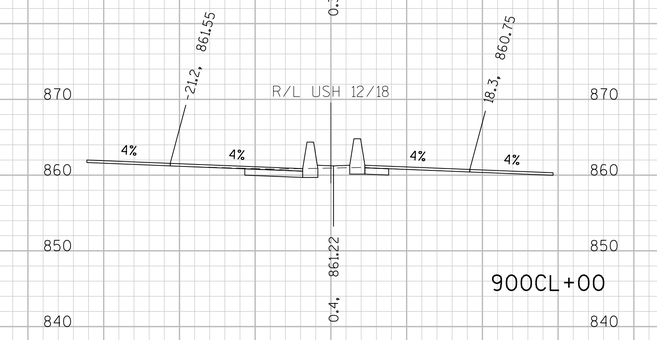


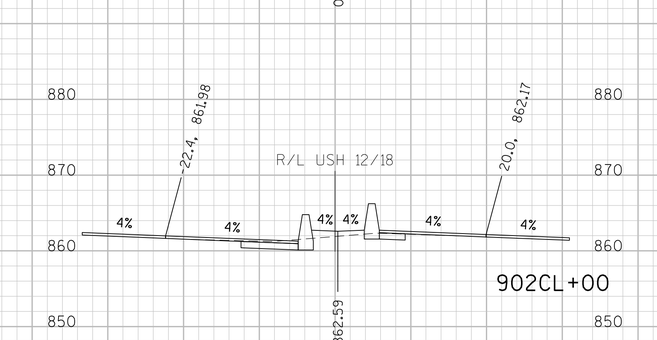


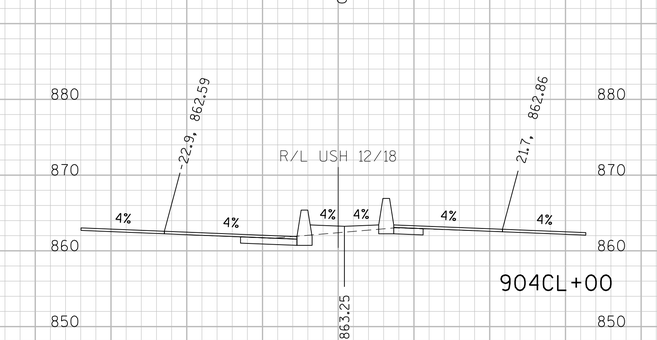


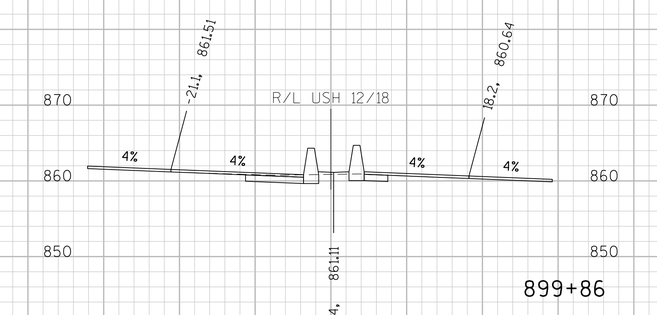


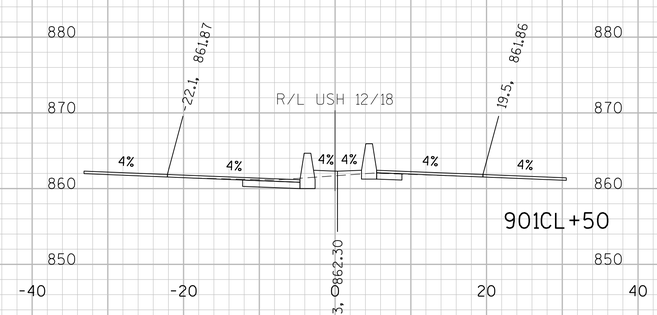


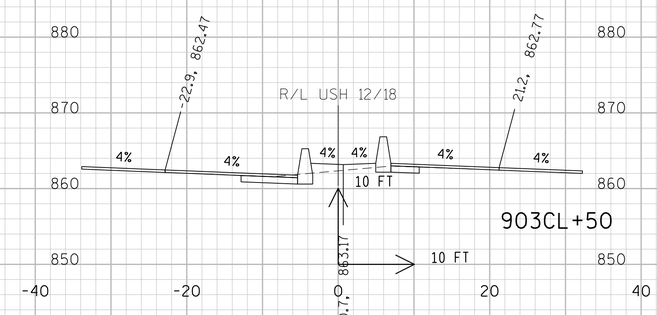












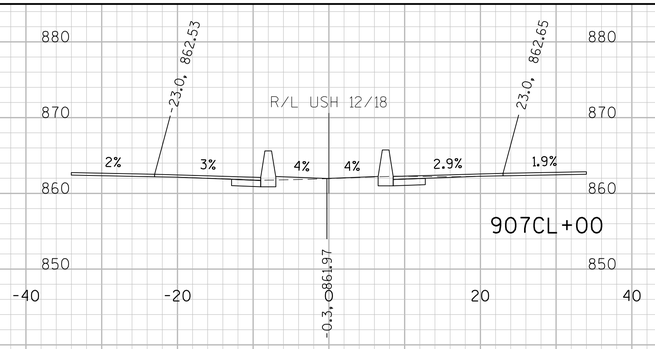
STA 899+86 TO 905CL+00

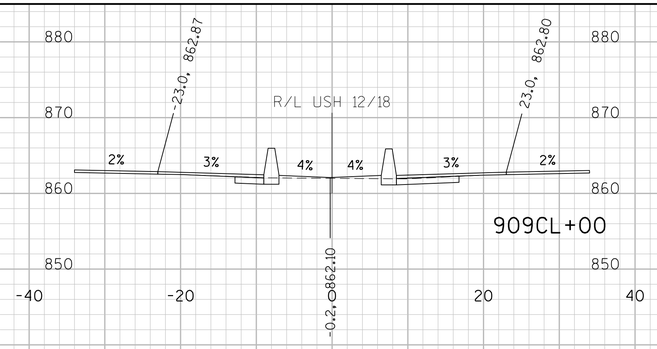
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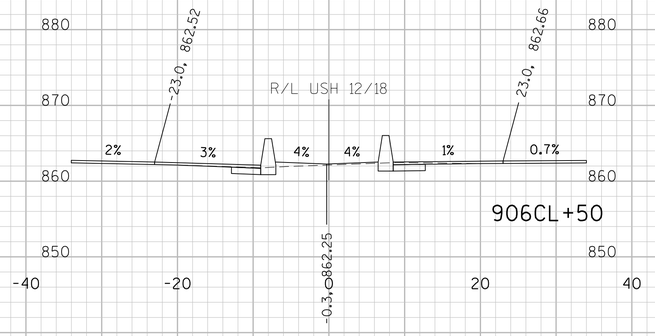
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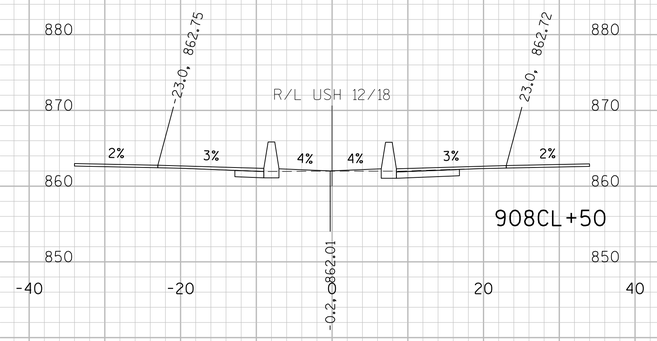
PROJECT NO:1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

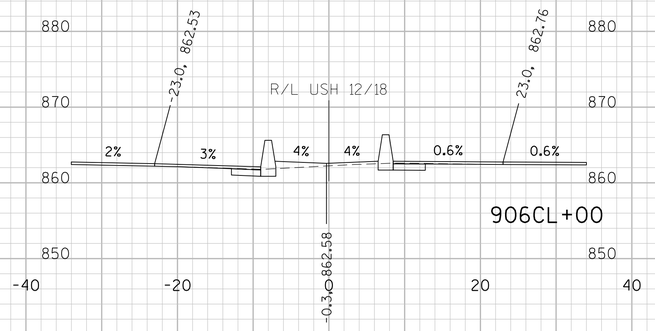
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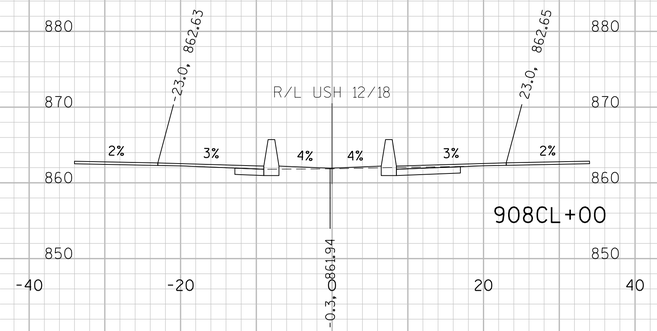


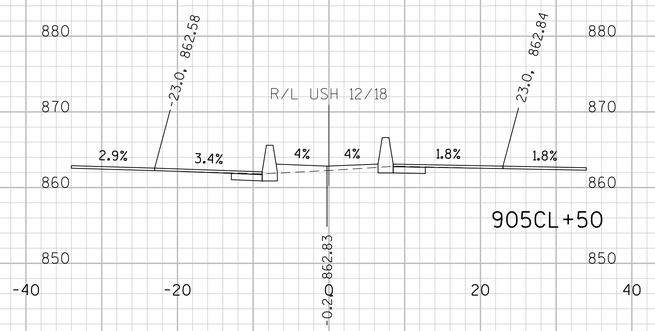


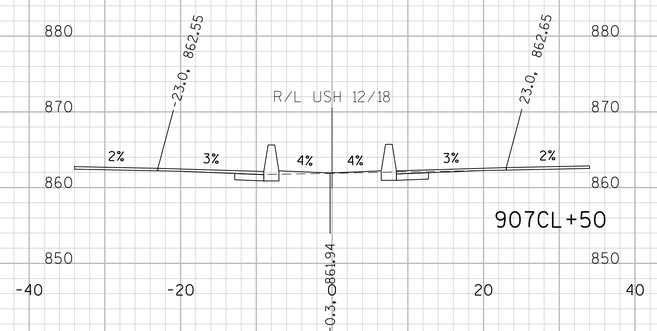


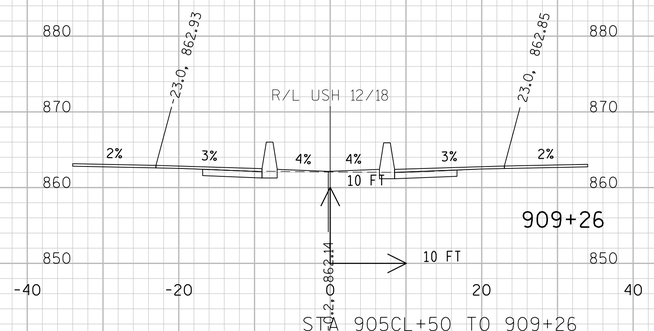










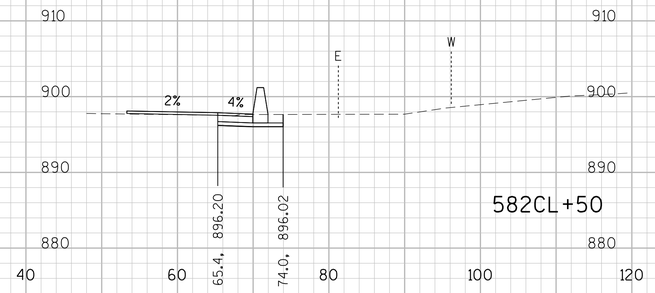


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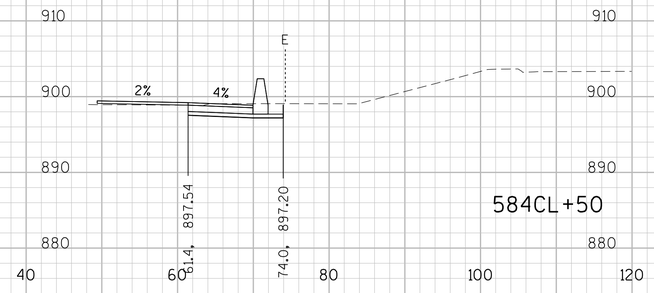
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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (MEDIAN)	SHEET	E

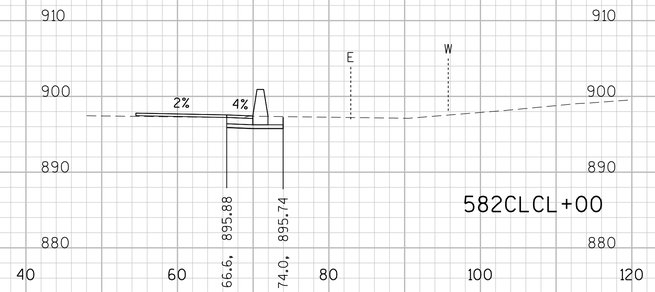
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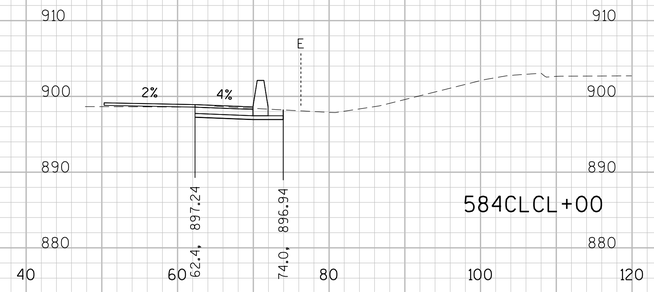
582CL+50



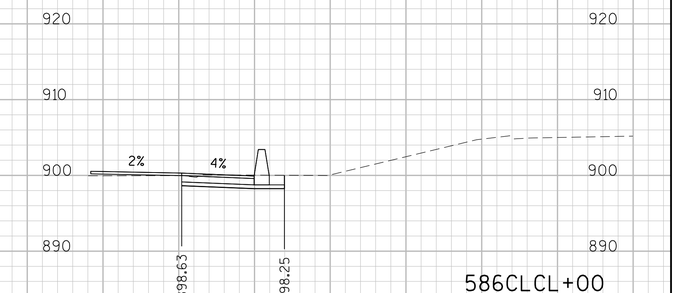
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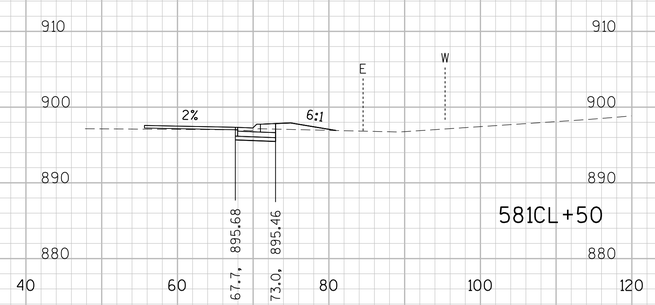
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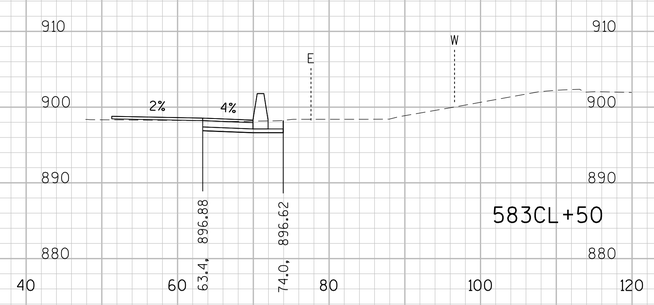
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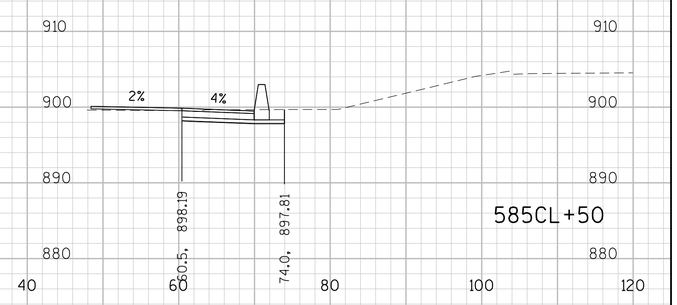
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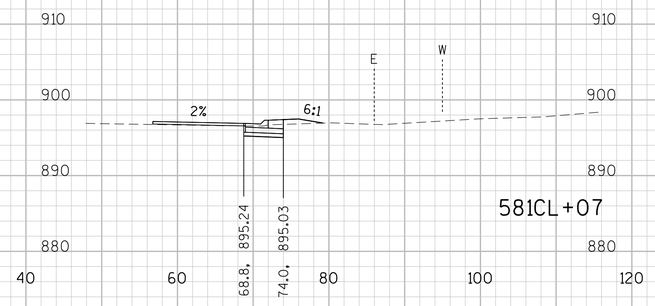
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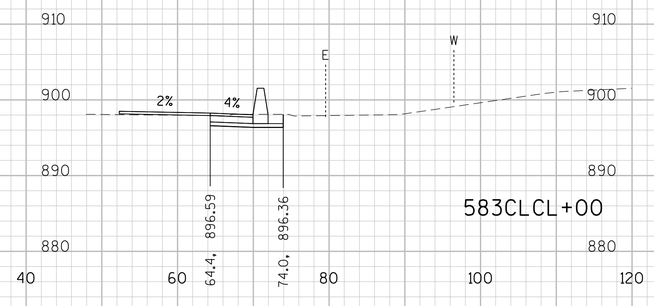
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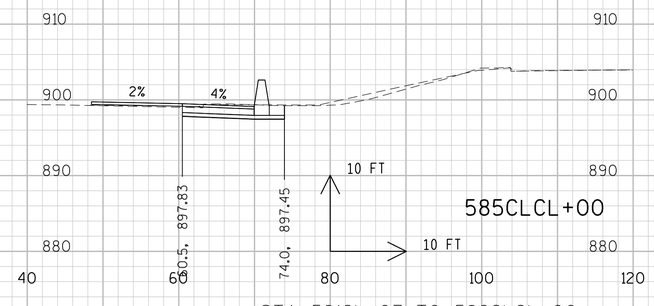
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581CL+07



583CLCL+00



585CLCL+00

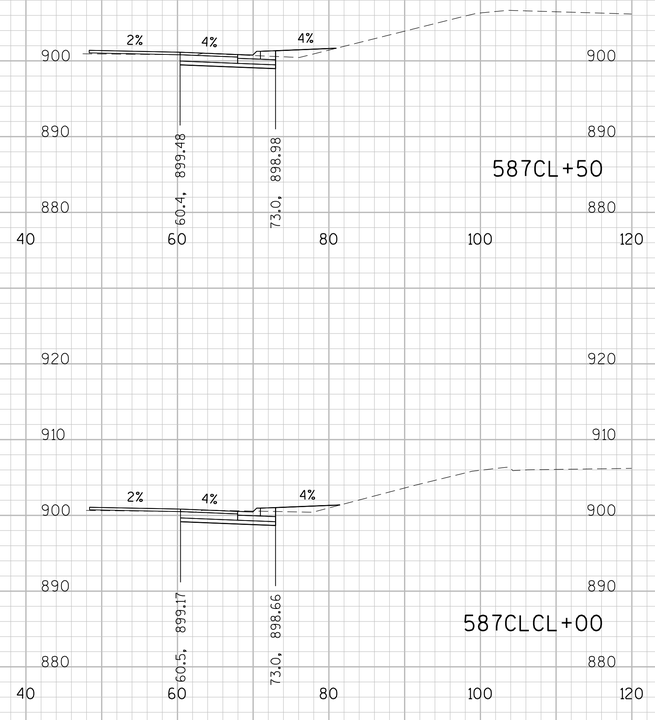
STA 581CL+07 TO 586CLCL+00

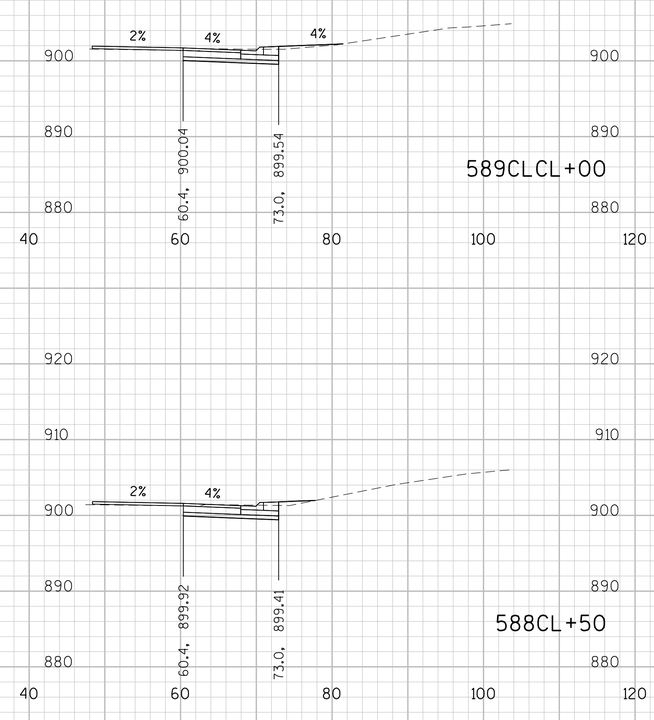
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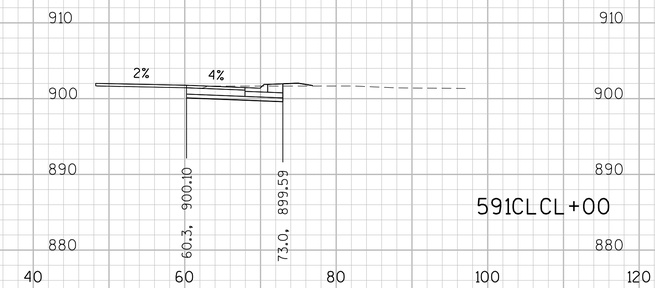
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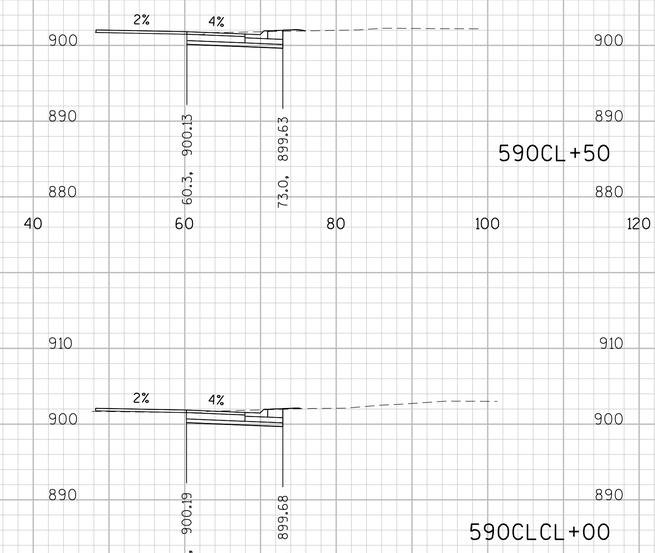
PROJECT NO:1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (EB OUTSIDE)	SHEET	E

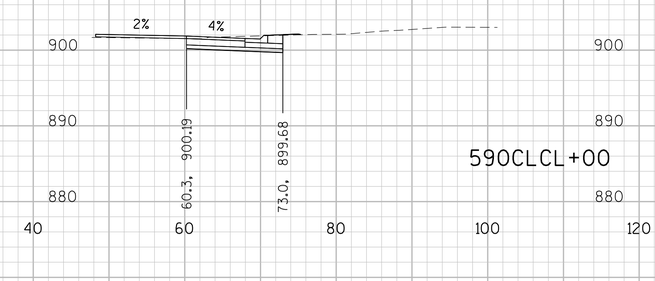
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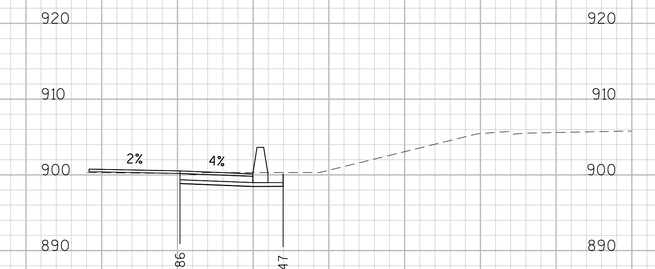


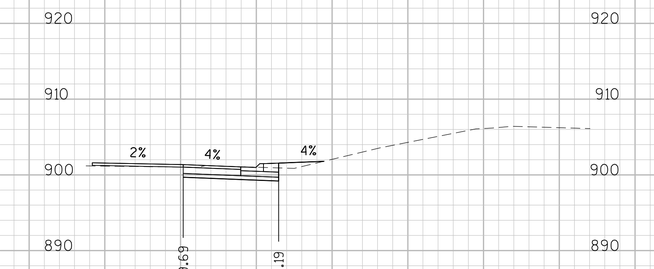


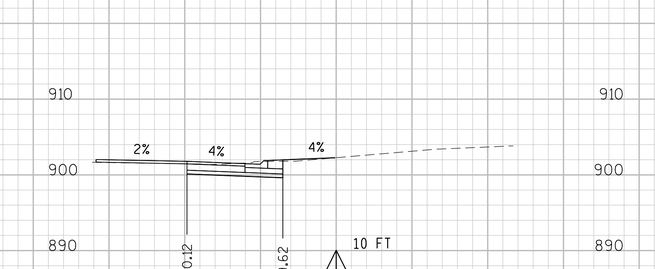










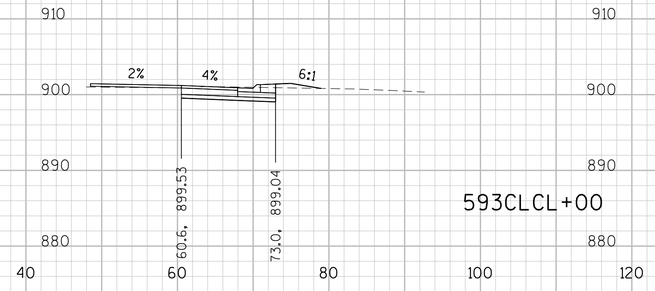


STA 586CL+50 TO 591CLCL+00

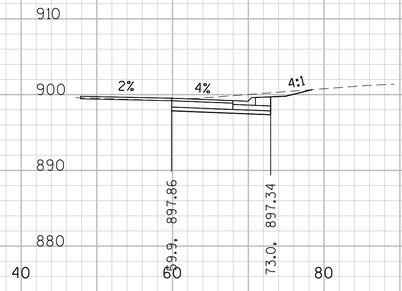
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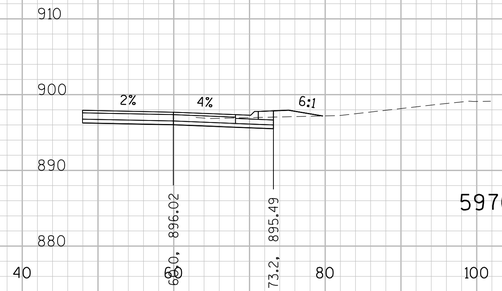
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (EB OUTSIDE)	SHEET	E



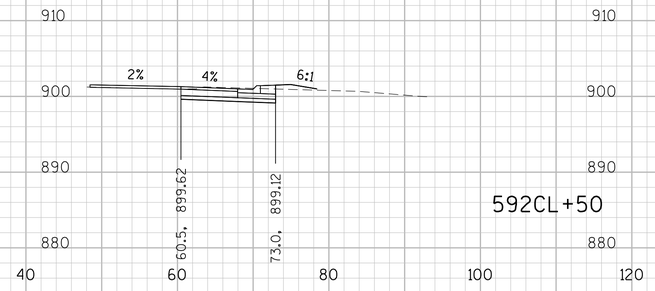
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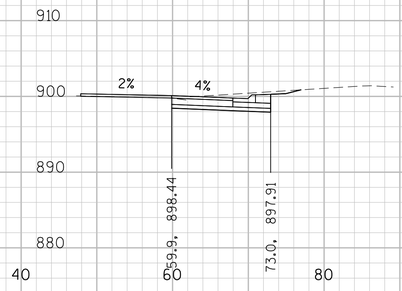
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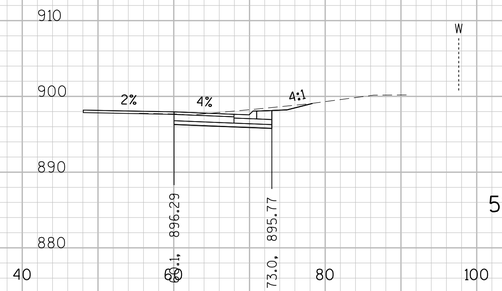
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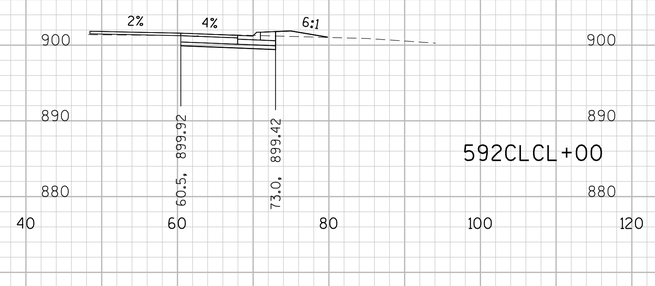
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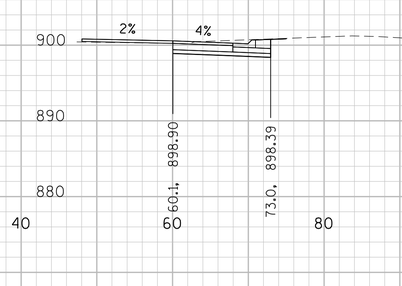
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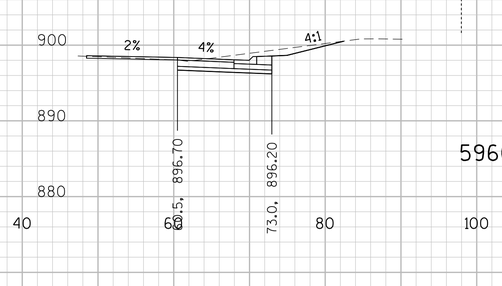
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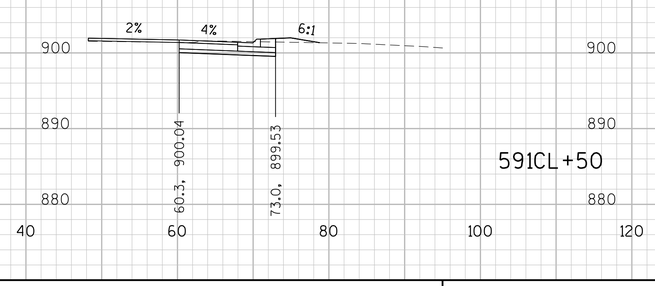
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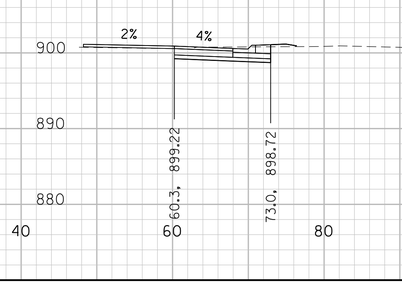
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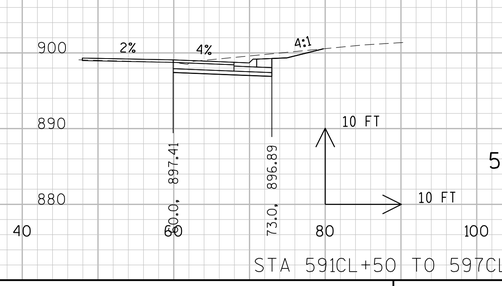
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593CL+50



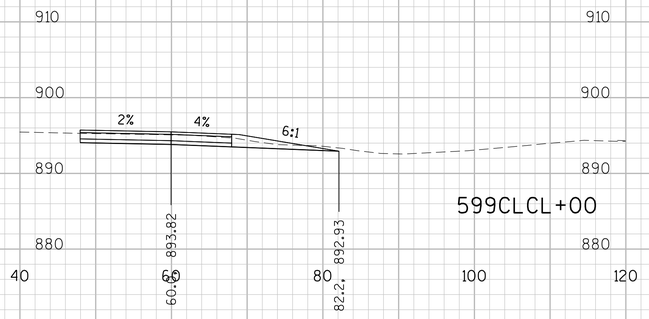
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STA 591CL+50 TO 597CLCL+00

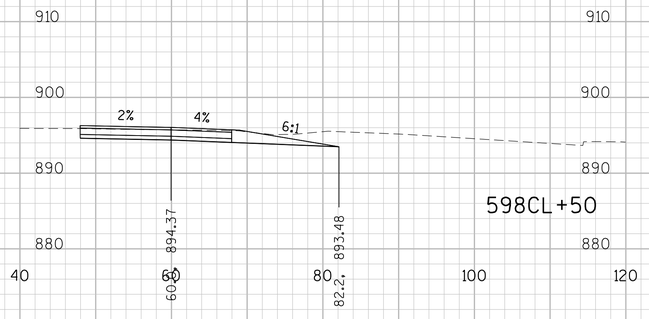
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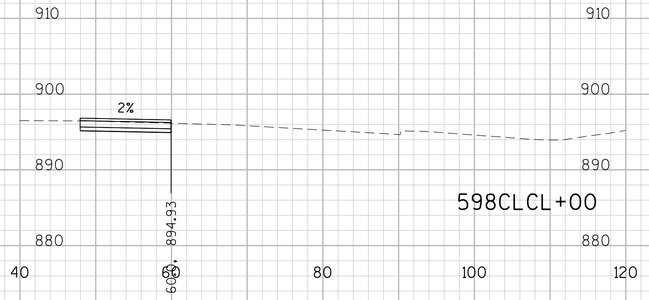
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (EB OUTSIDE)	SHEET	E



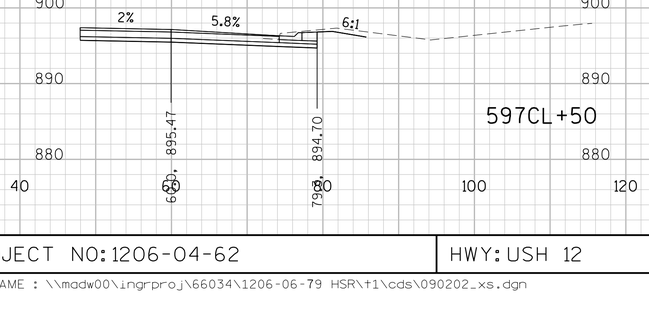
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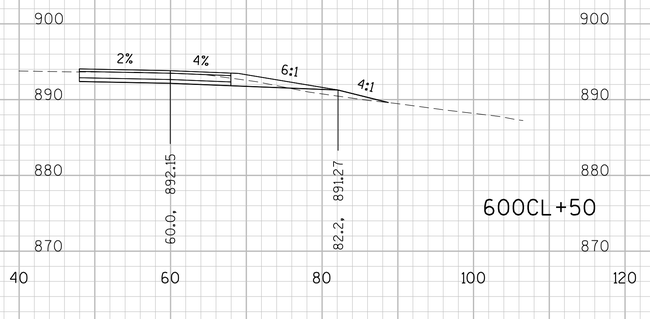
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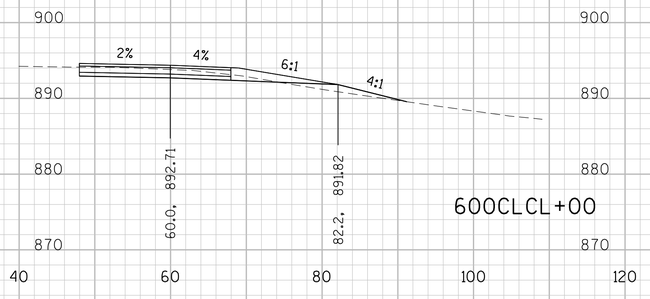
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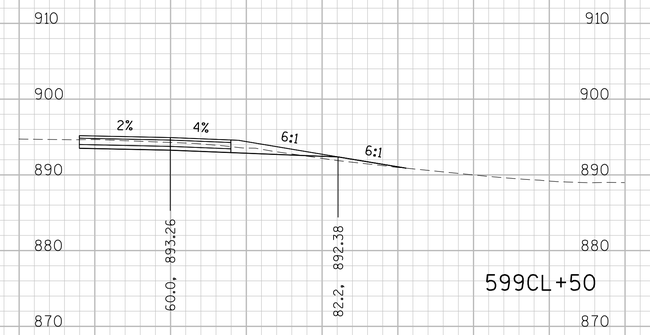
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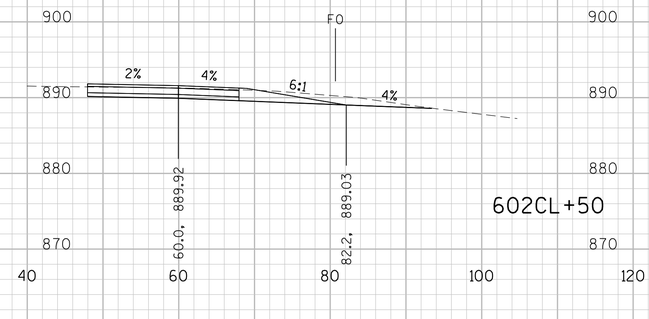
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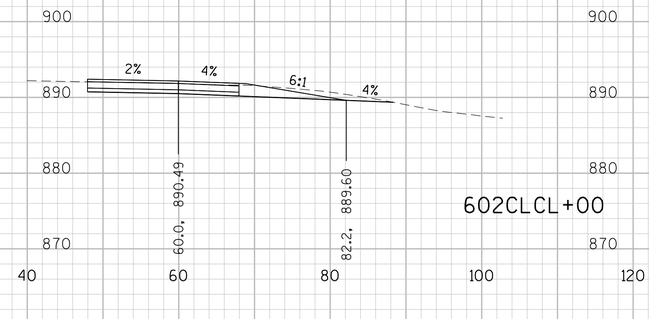
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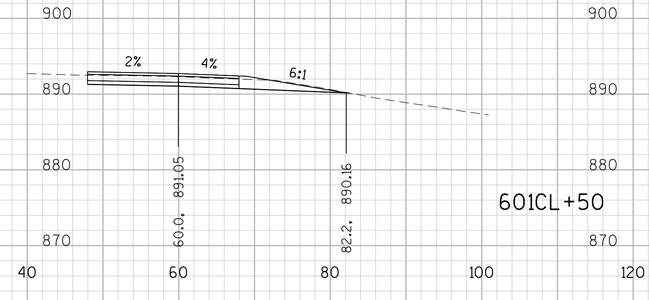
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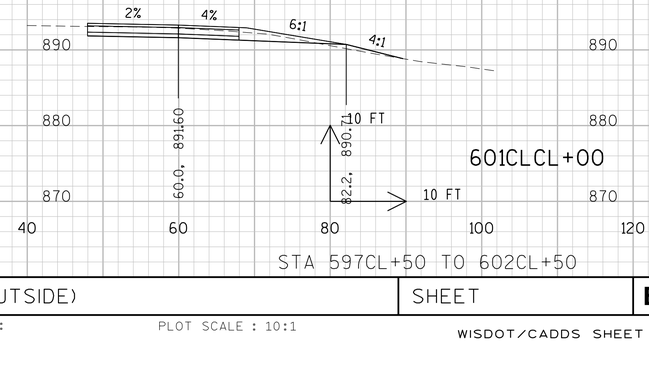
602CL+50



602CLCL+00



601CL+50



601CLCL+00

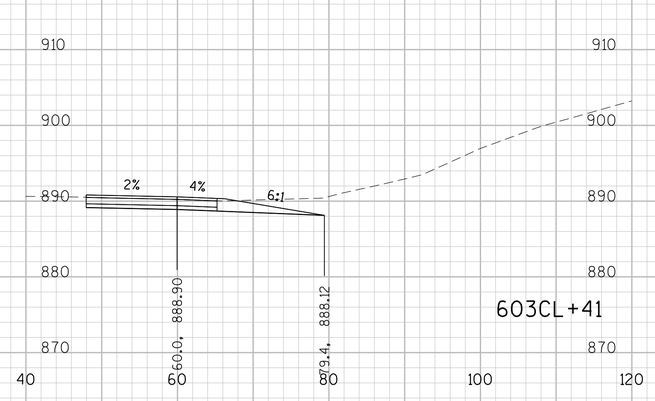
STA 597CL+50 TO 602CL+50

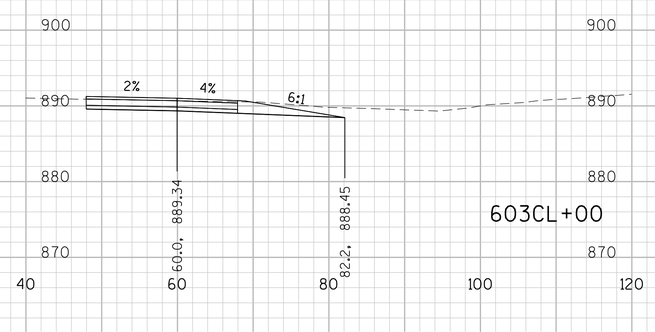
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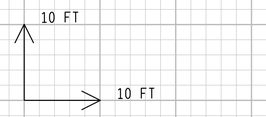
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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (EB OUTSIDE)	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\090202_xs.dgn
PLOT DATE : 2/17/2020 10:01:47 AM PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 10:1
WISDOT/CADDS SHEET 21





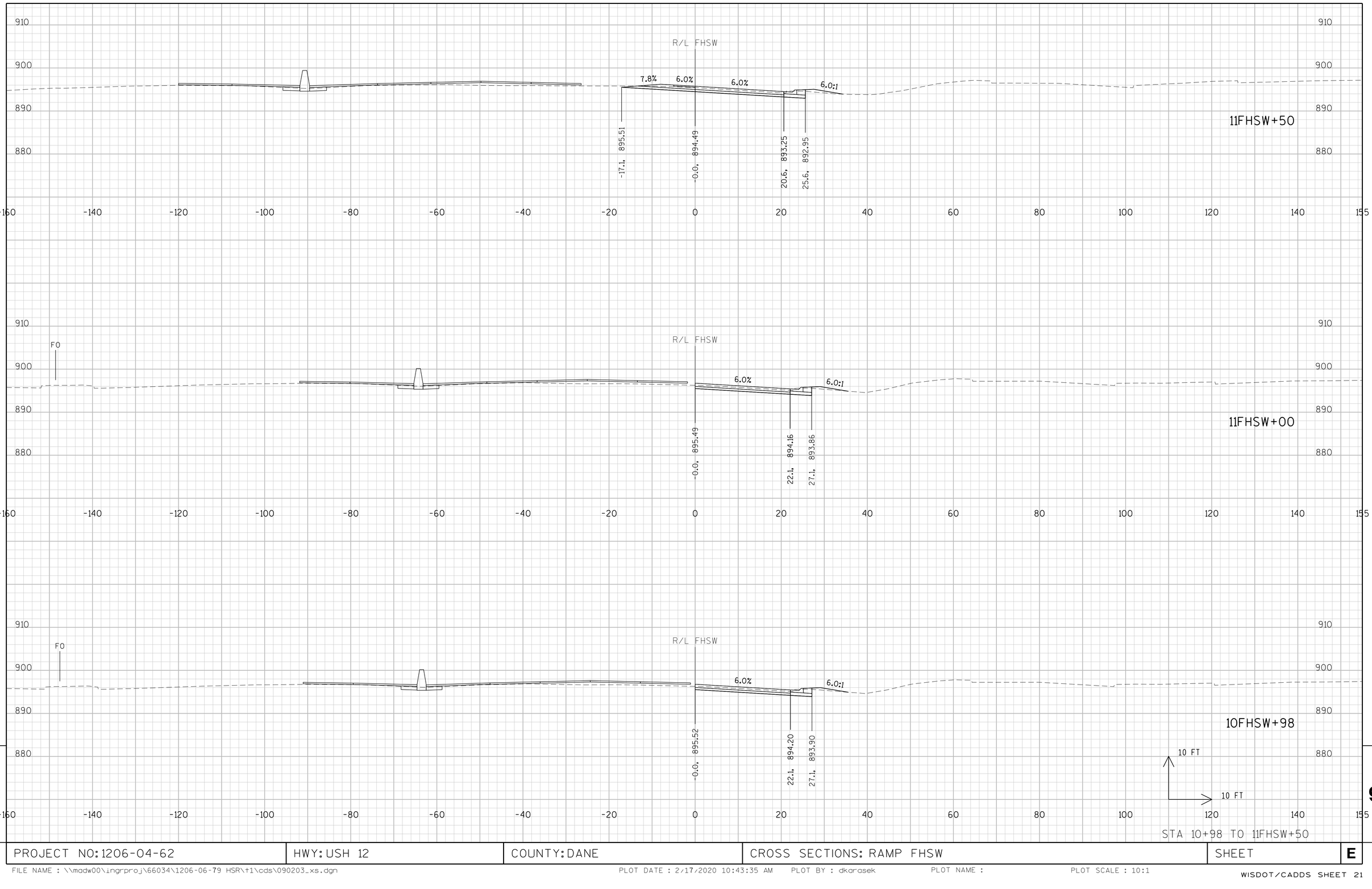


STA 603CLCL+00 TO 603CL+41

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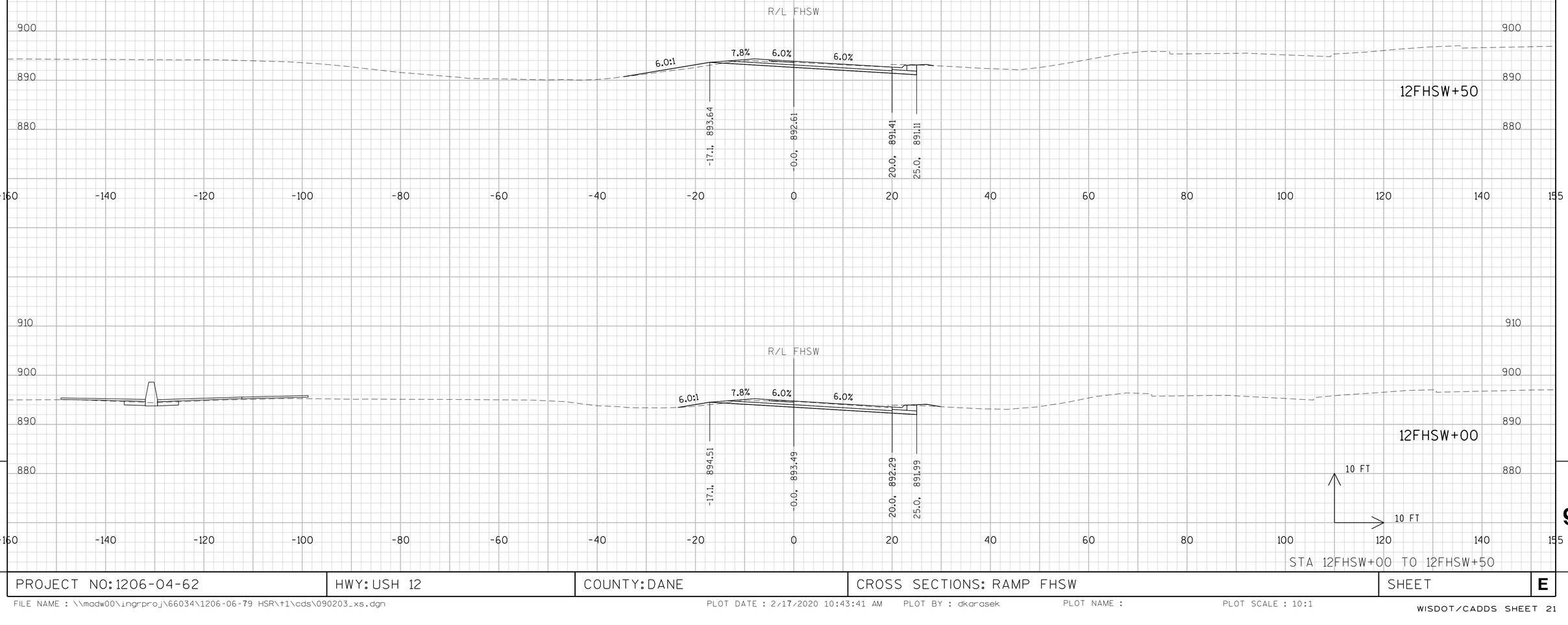
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (EB OUTSIDE)	SHEET	E



STA 10+98 TO 11FHSW+50

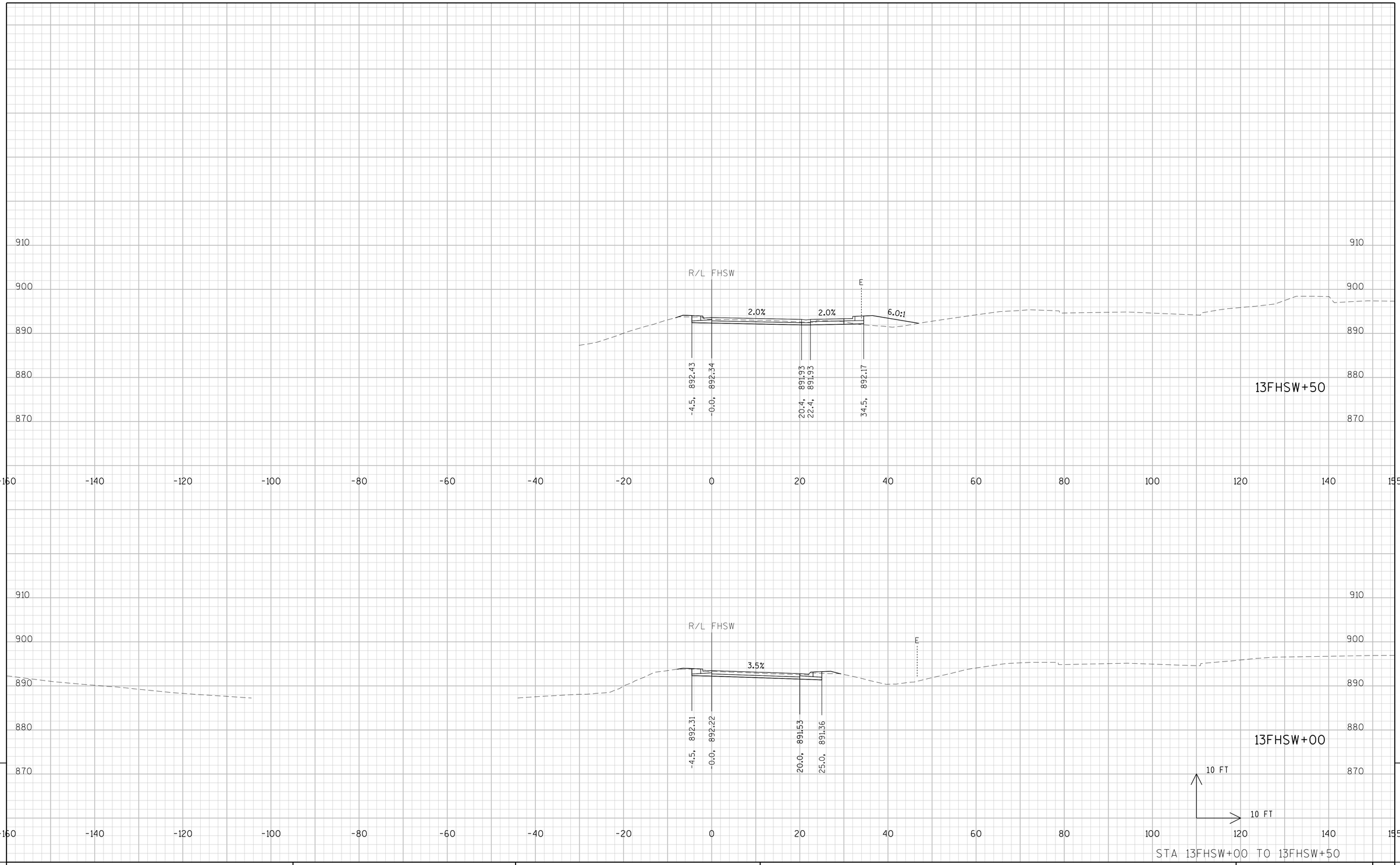
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP FHSW	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\090203_xs.dgn PLOT DATE : 2/17/2020 10:43:35 AM PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 10:1



STA 12FHSW+00 TO 12FHSW+50

PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP FHSW	SHEET	E

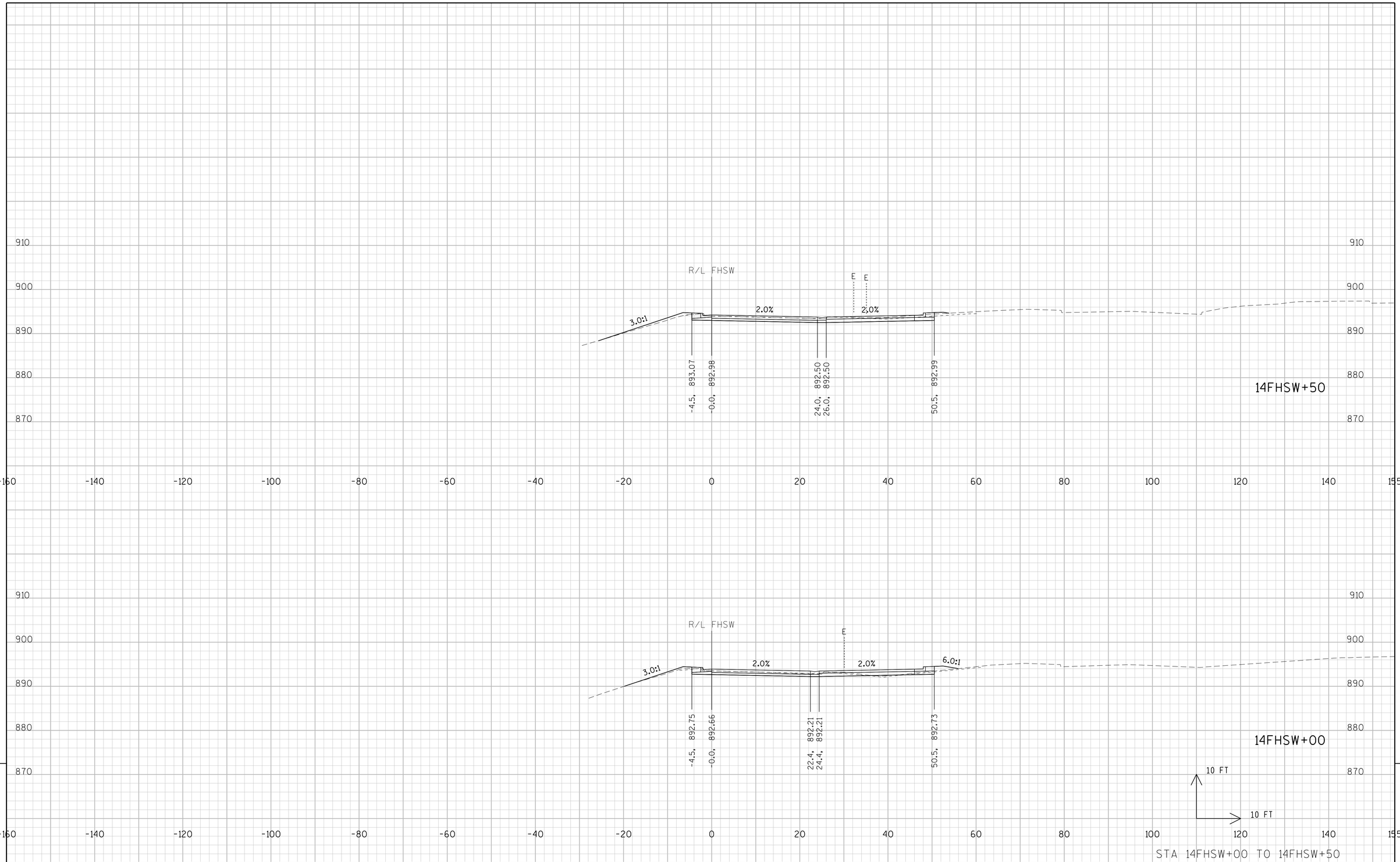


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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP FHSW	SHEET	E

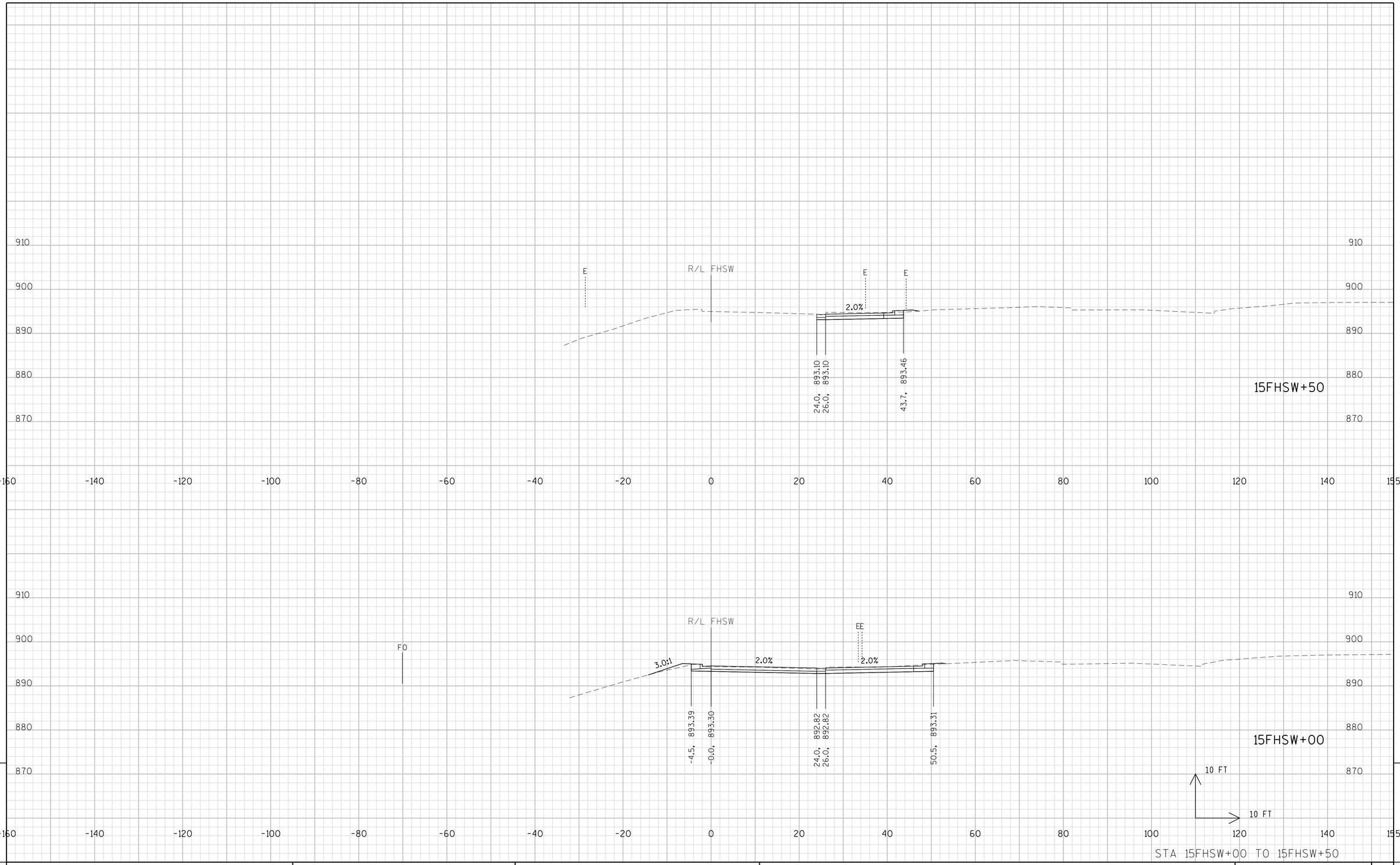
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STA 14FHSW+00 TO 14FHSW+50

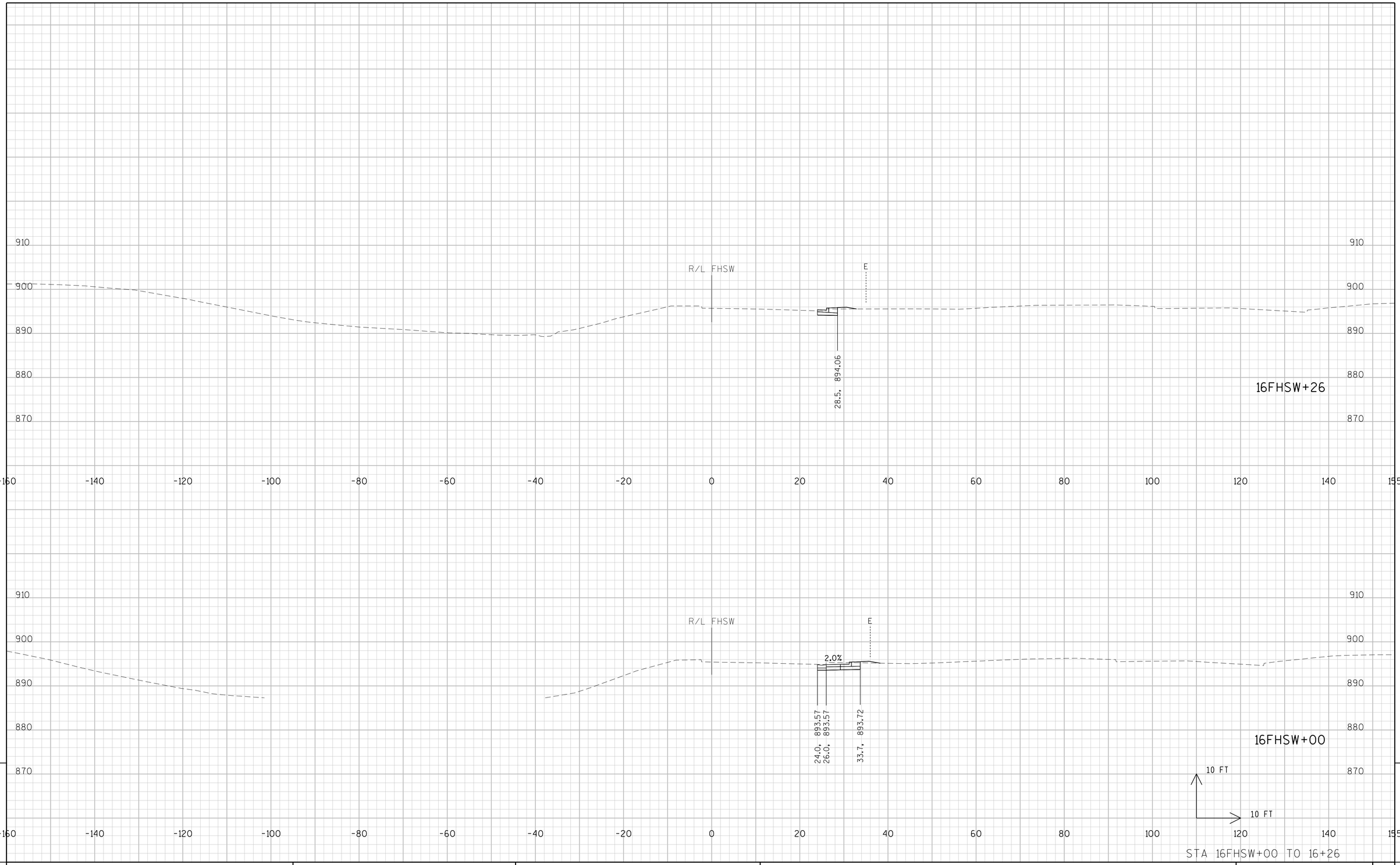
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP FHSW	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\090203_xs.dgn PLOT DATE : 2/17/2020 10:43:43 AM PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 10:1



STA 15FHSW+00 TO 15FHSW+50

PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP FHSW	SHEET	E

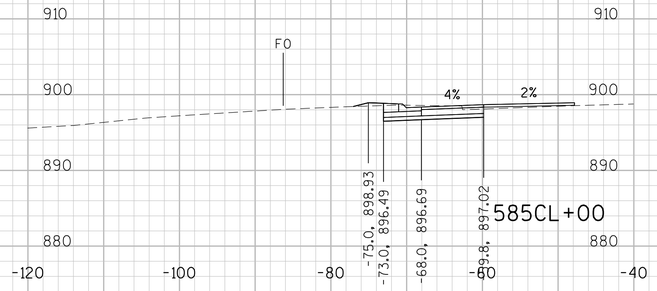


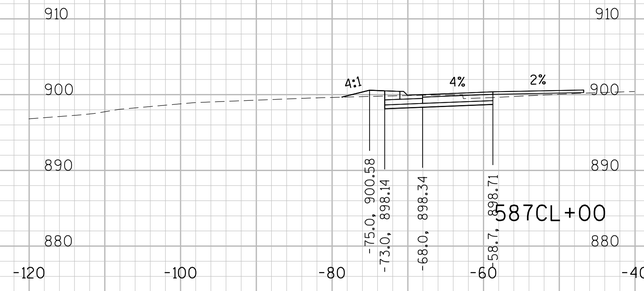
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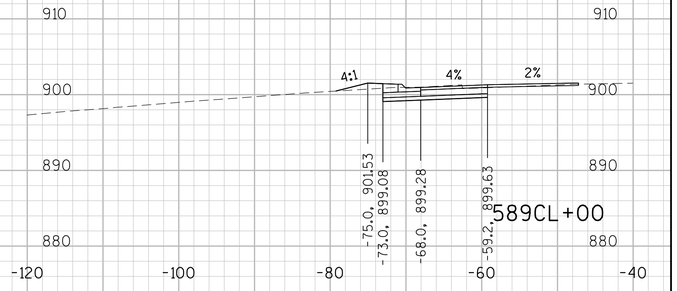
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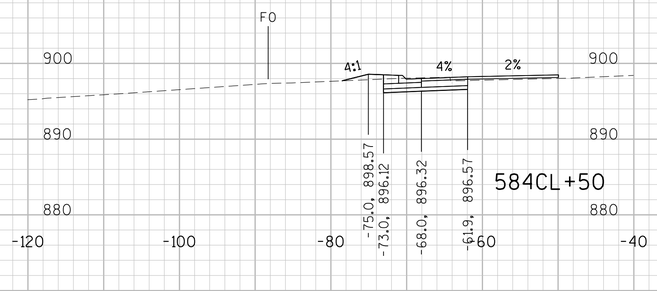
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP FHSW	SHEET	E

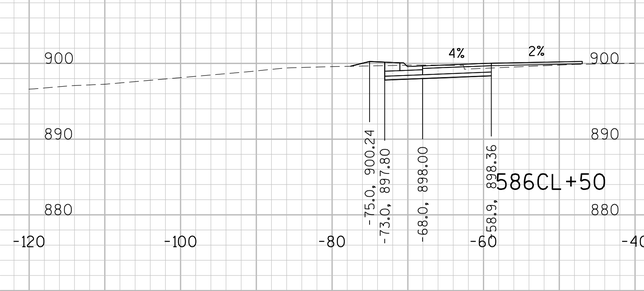
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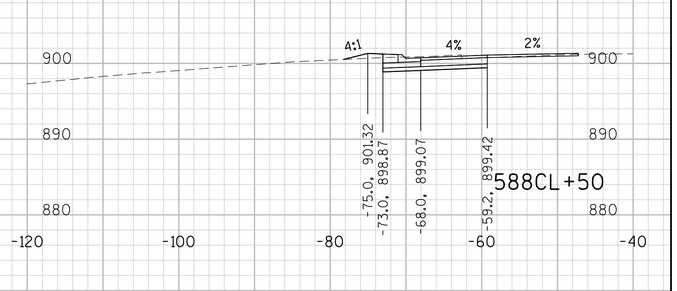


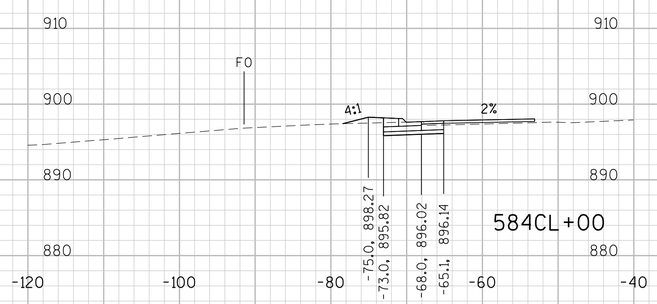


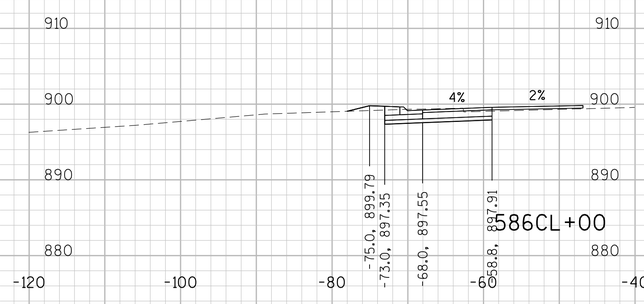


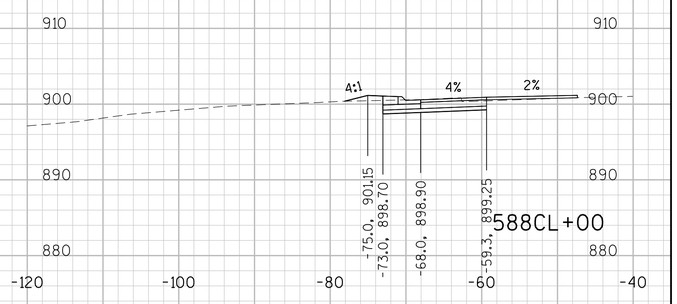


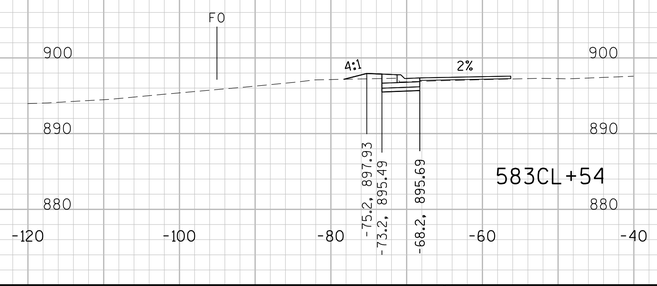


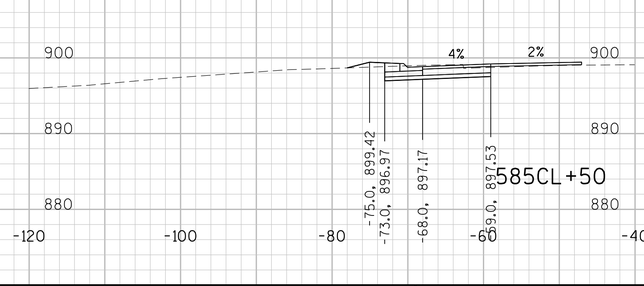


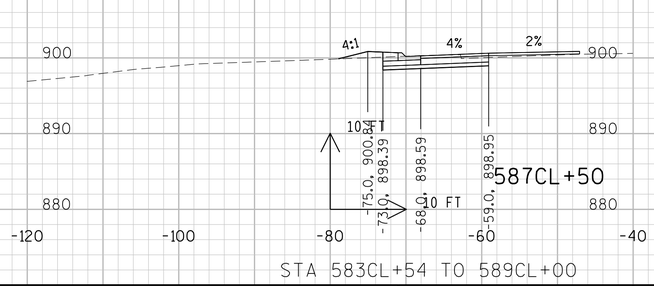












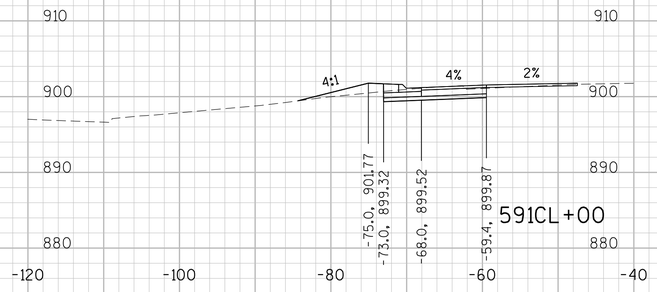
STA 583CL+54 TO 589CL+00

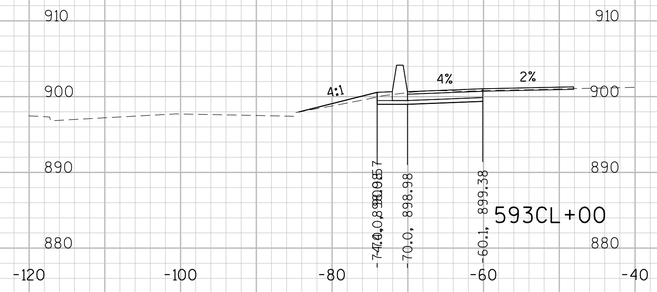
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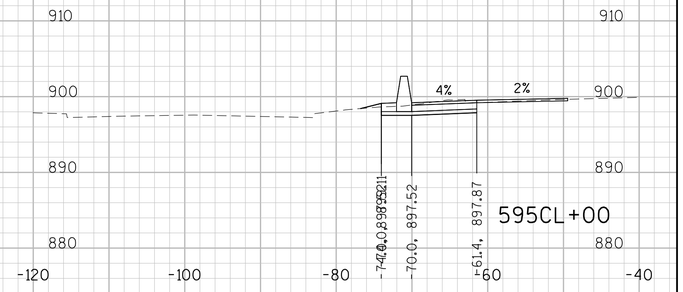
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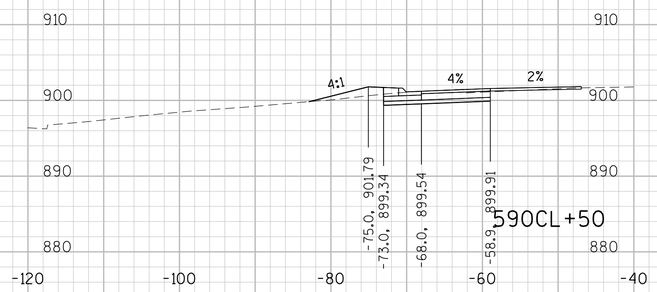
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (WB OUTSIDE)	SHEET	E

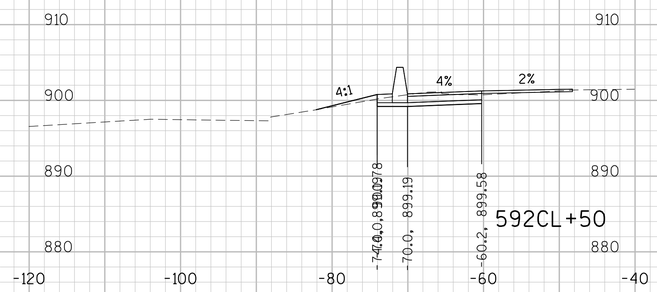
FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\090204_xs.dgn PLOT DATE : 2/17/2020 10:53:45 AM PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 10:1

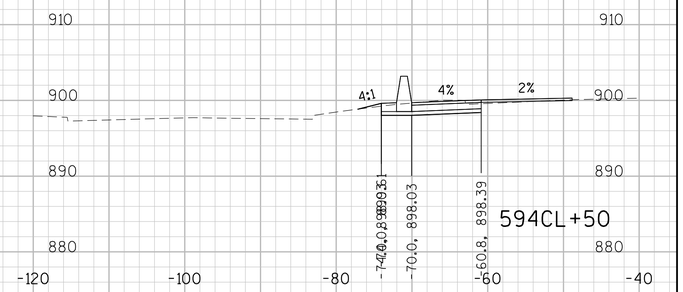


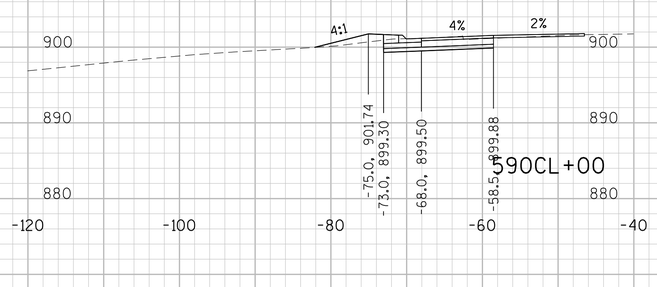


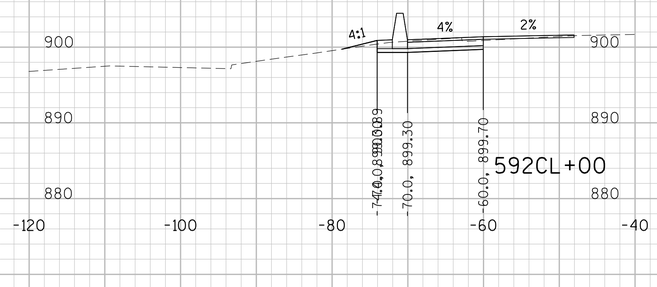


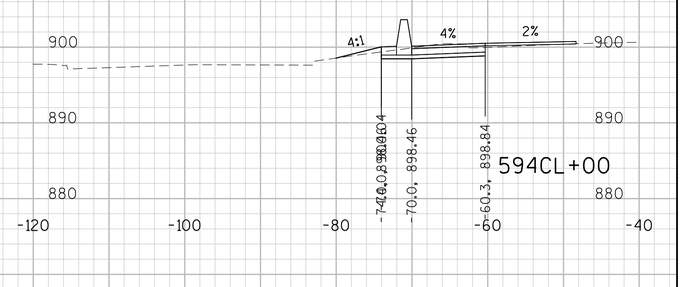


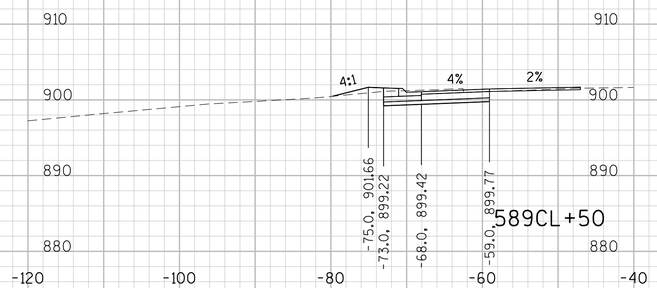


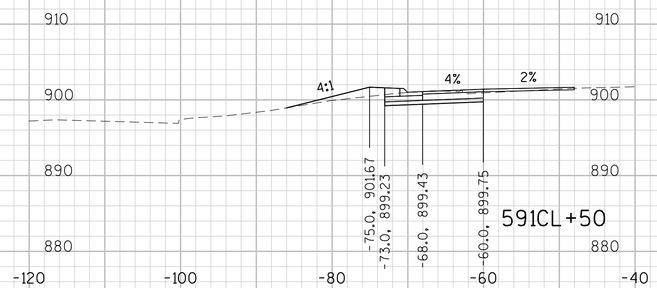


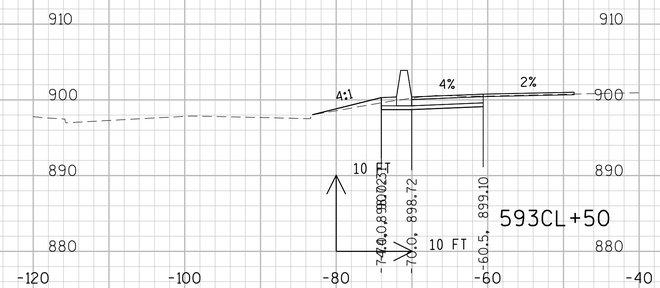












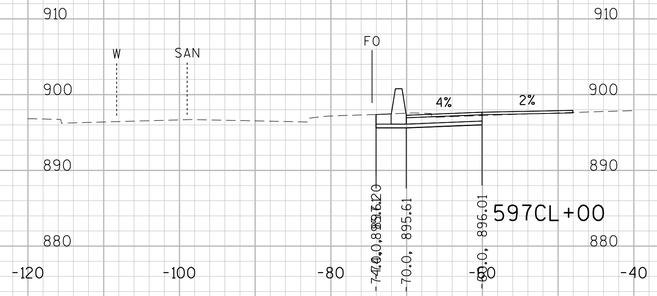
STA 589CL+50 TO 595CL+00

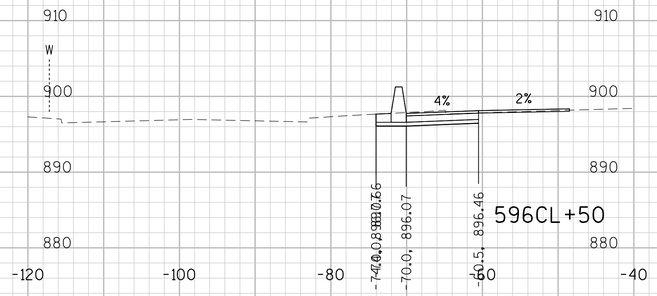
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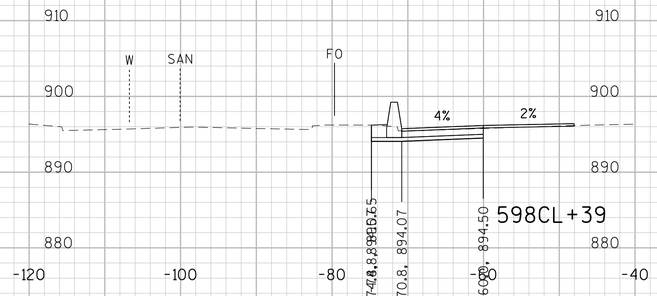
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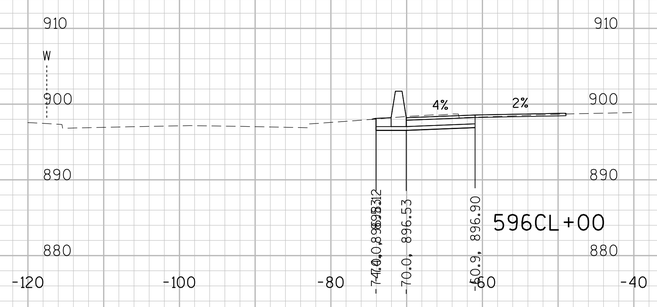
PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (WB OUTSIDE)	SHEET	E

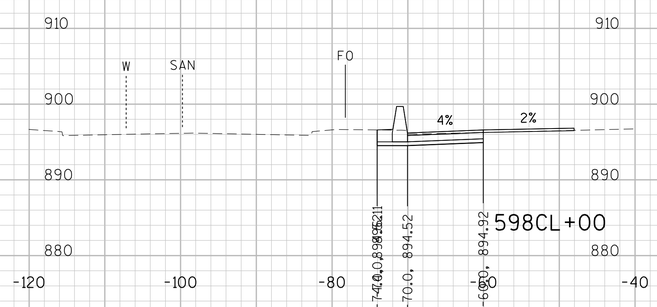
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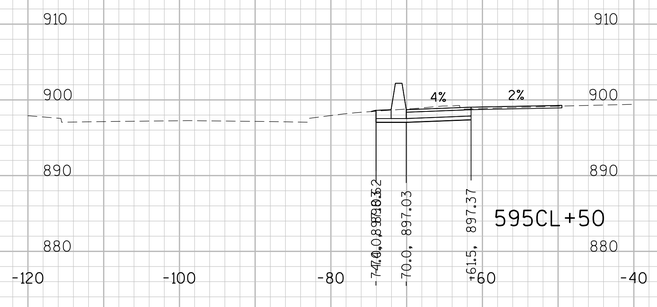


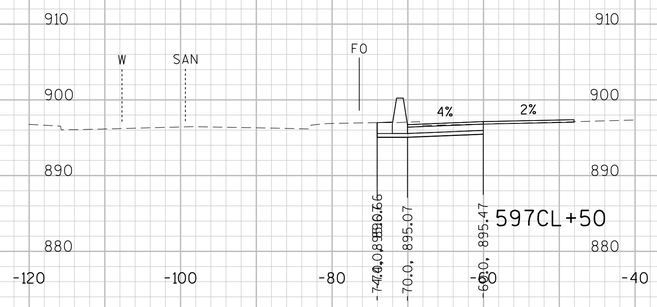


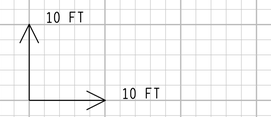










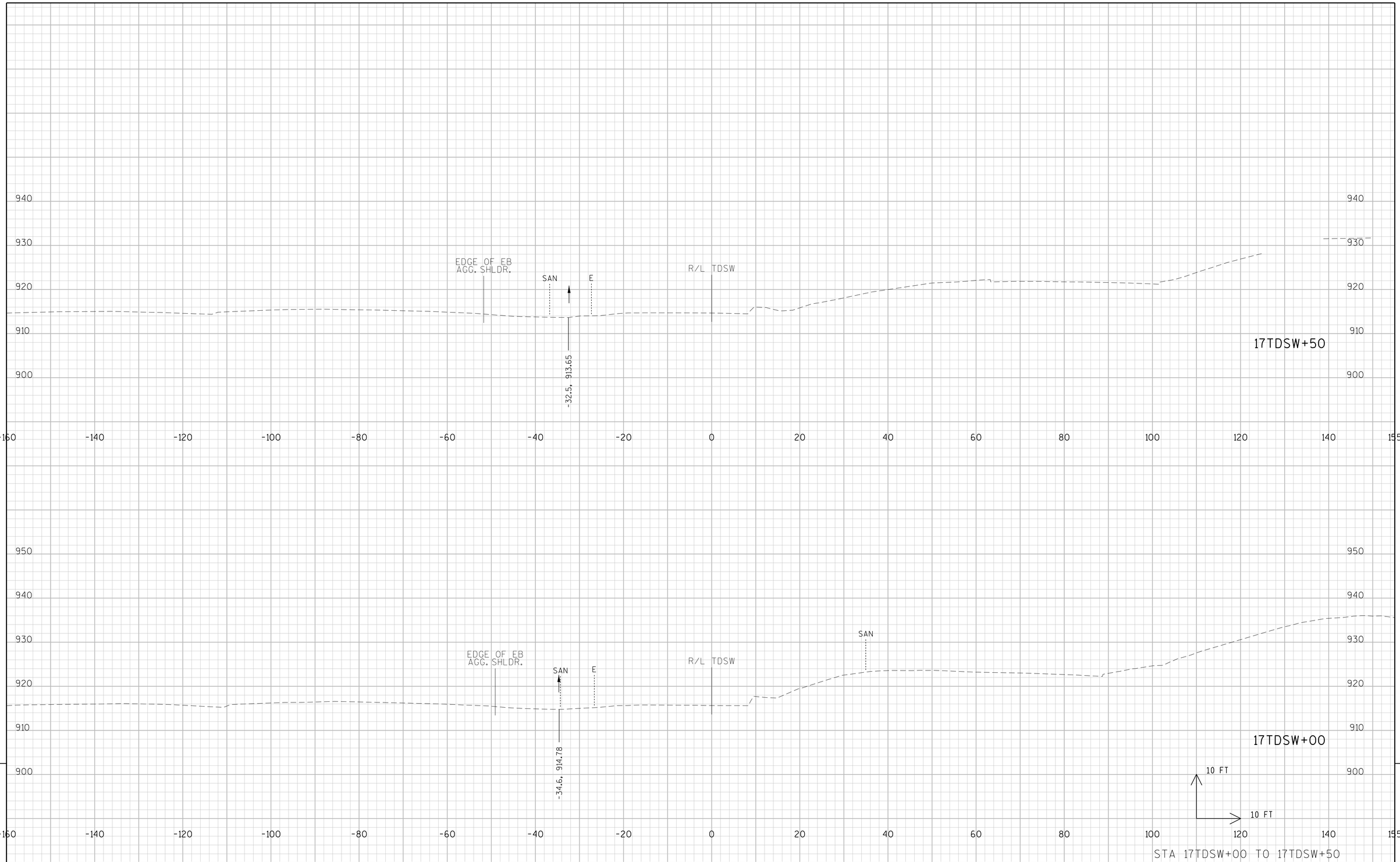


STA 595CL+50 TO 598CL+39

9

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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: USH 12/18 (WB OUTSIDE)	SHEET	E



9

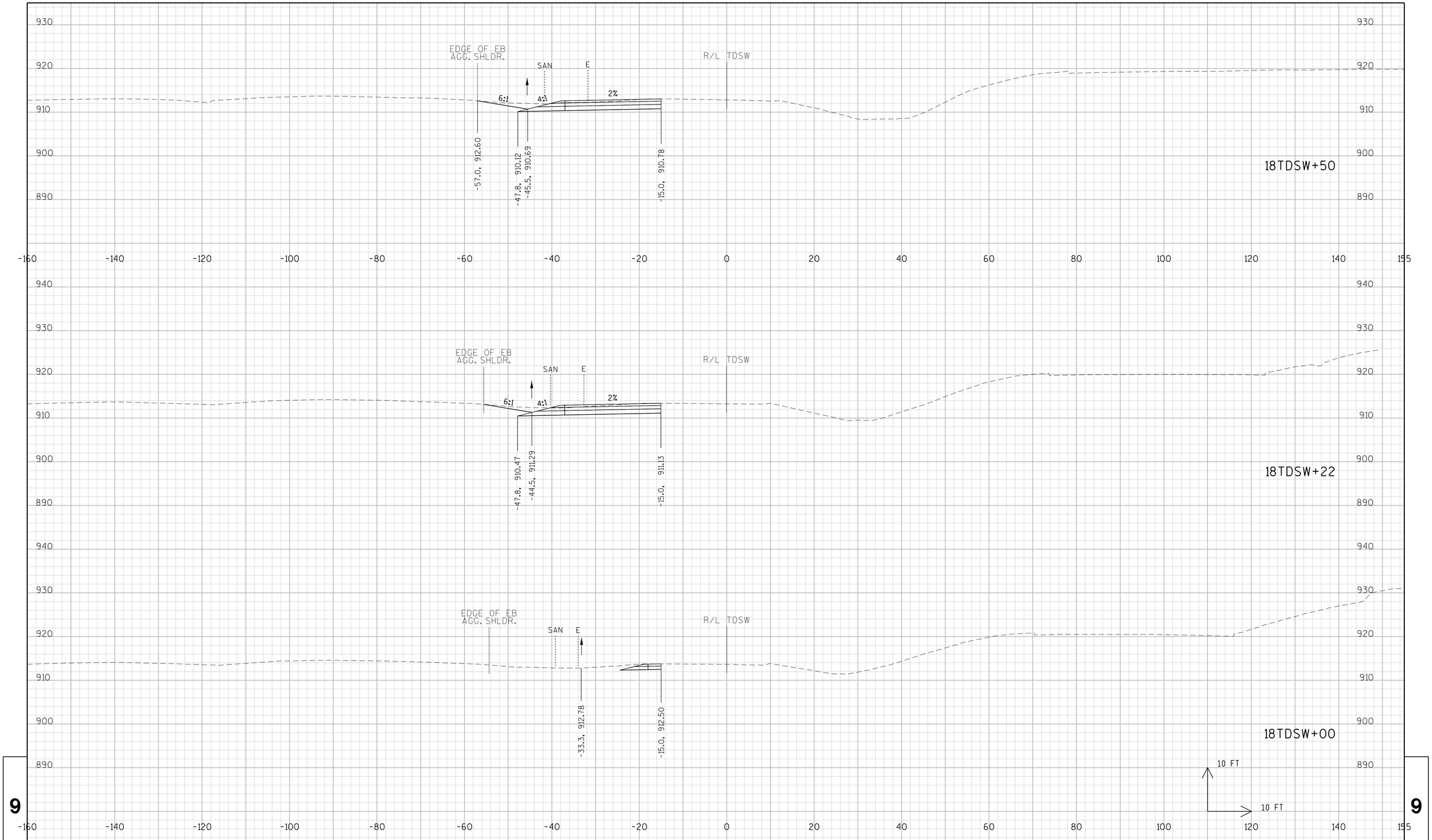
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STA 17TDSW+00 TO 17TDSW+50

PROJECT NO:1206-04-62	HWY:USH 12	COUNTY:DANE	CROSS SECTIONS: RAMP TDSW	SHEET	E

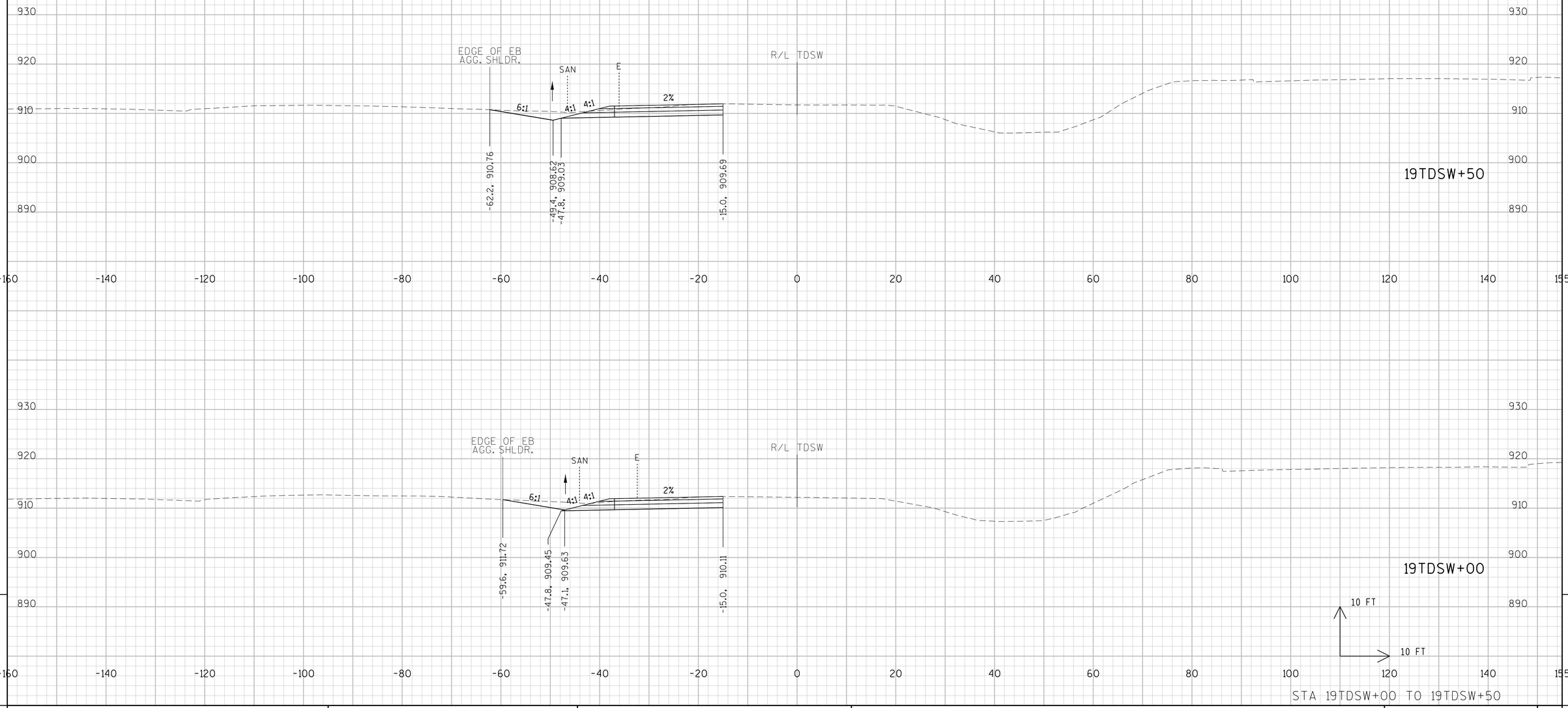
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WISDOT/CADDS SHEET 21



STA 18TDSW+00 TO 18TDSW+50

PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP TDSW	SHEET	E



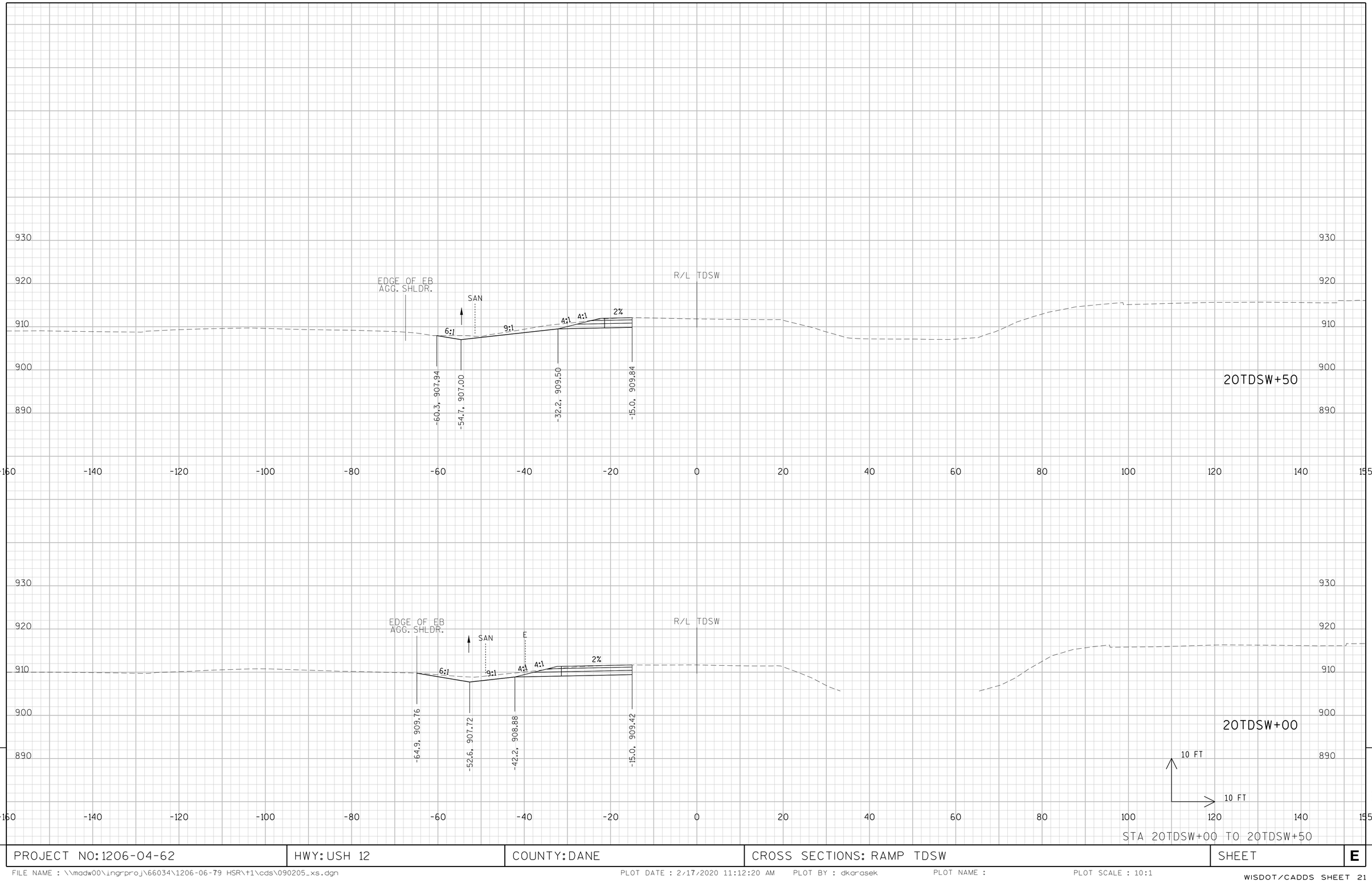
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STA 19TDSW+00 TO 19TDSW+50

PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP TDSW	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\090205_xs.dgn PLOT DATE : 2/17/2020 11:12:19 AM PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 10:1



9

9

STA 20TDSW+00 TO 20TDSW+50

PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP TDSW	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\090205_xs.dgn PLOT DATE : 2/17/2020 11:12:20 AM PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 10:1



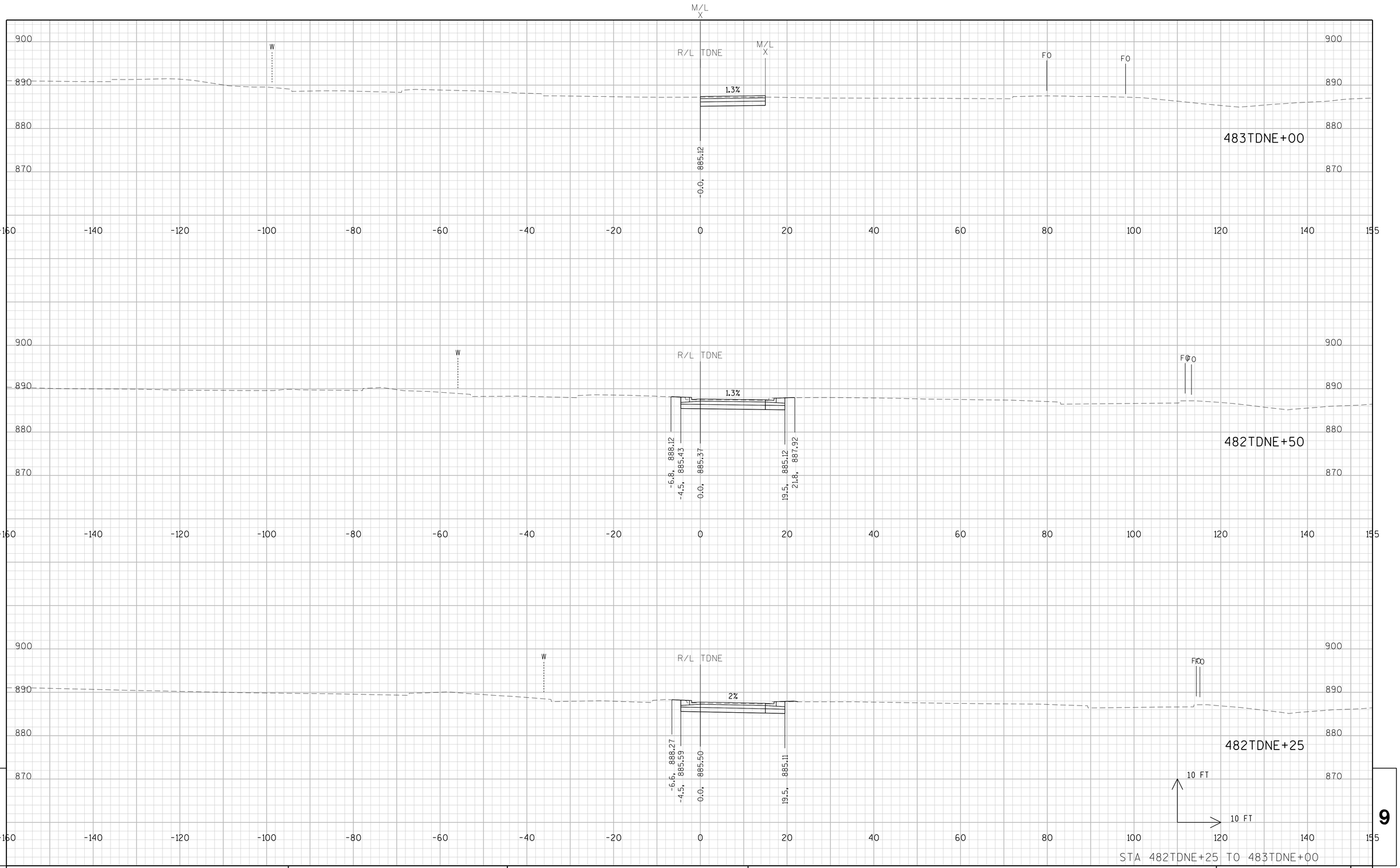
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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP TDSW	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\090205_xs.dgn PLOT DATE : 2/17/2020 11:12:20 AM PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 10:1

WISDOT/CADDS SHEET 21



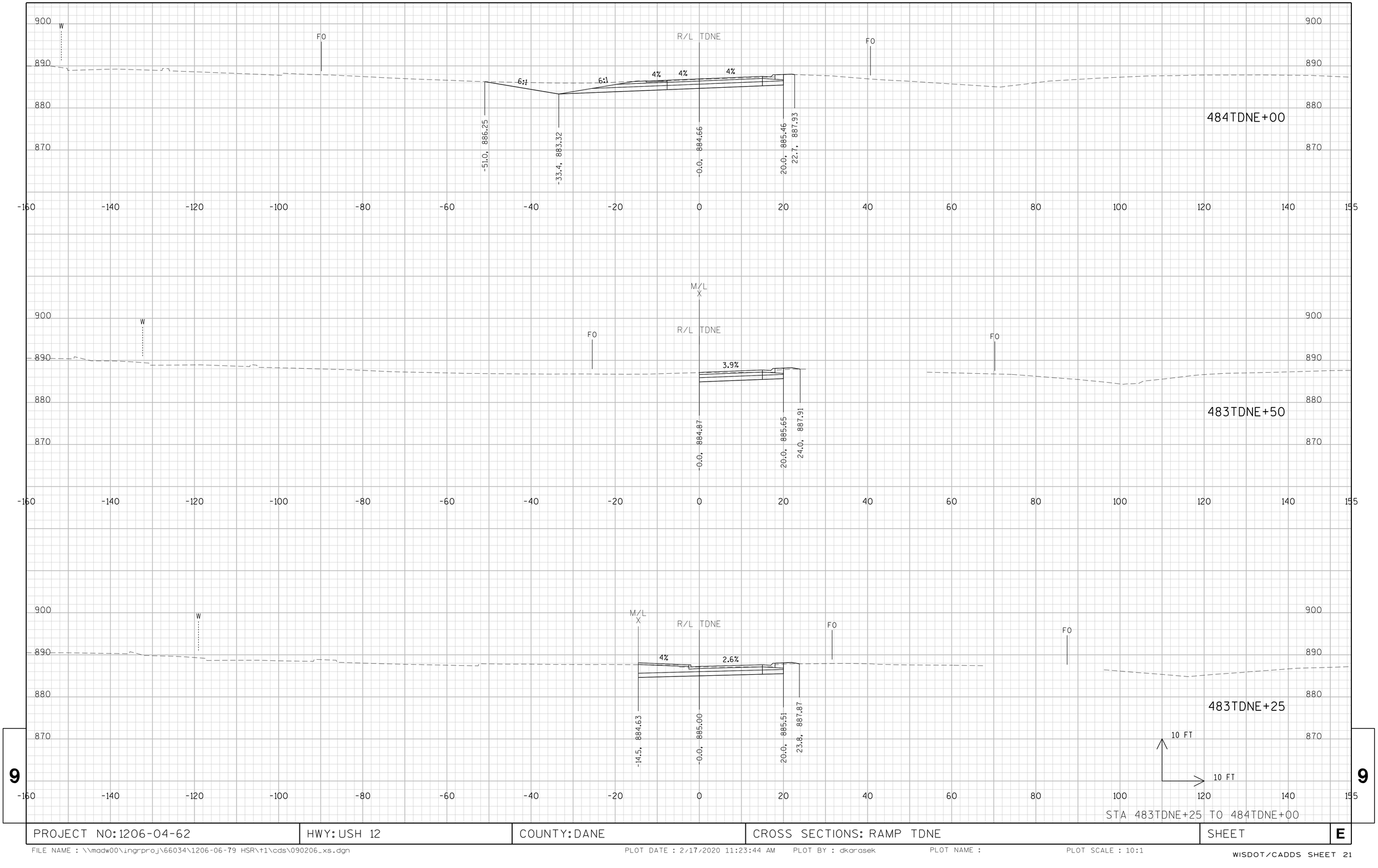
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PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP TDNE	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\090206_xs.dgn PLOT DATE : 2/17/2020 11:23:38 AM PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 10:1

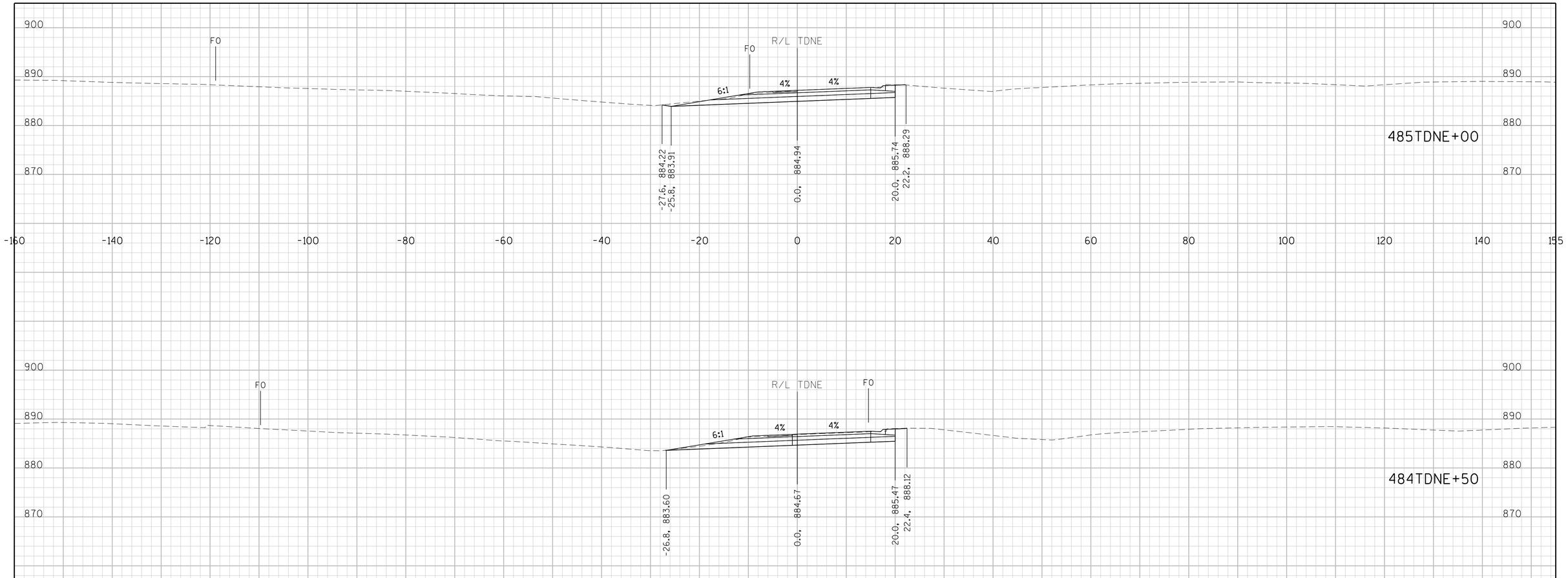
WISDOT/CADDS SHEET 21

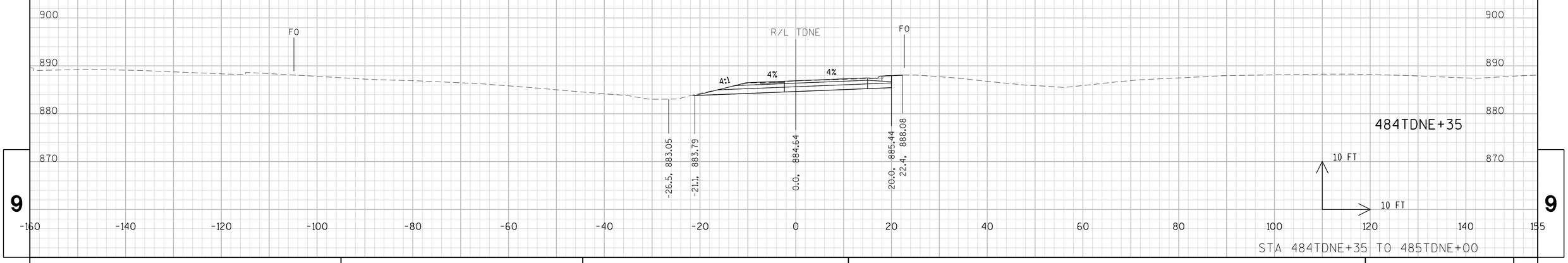


PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP TDNE	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\090206_xs.dgn PLOT DATE : 2/17/2020 11:23:44 AM PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 10:1

WISDOT/CADDS SHEET 21





STA 484TDNE+35 TO 485TDNE+00

PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP TDNE	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\090206_xs.dgn PLOT DATE : 2/17/2020 11:23:45 AM PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 10:1

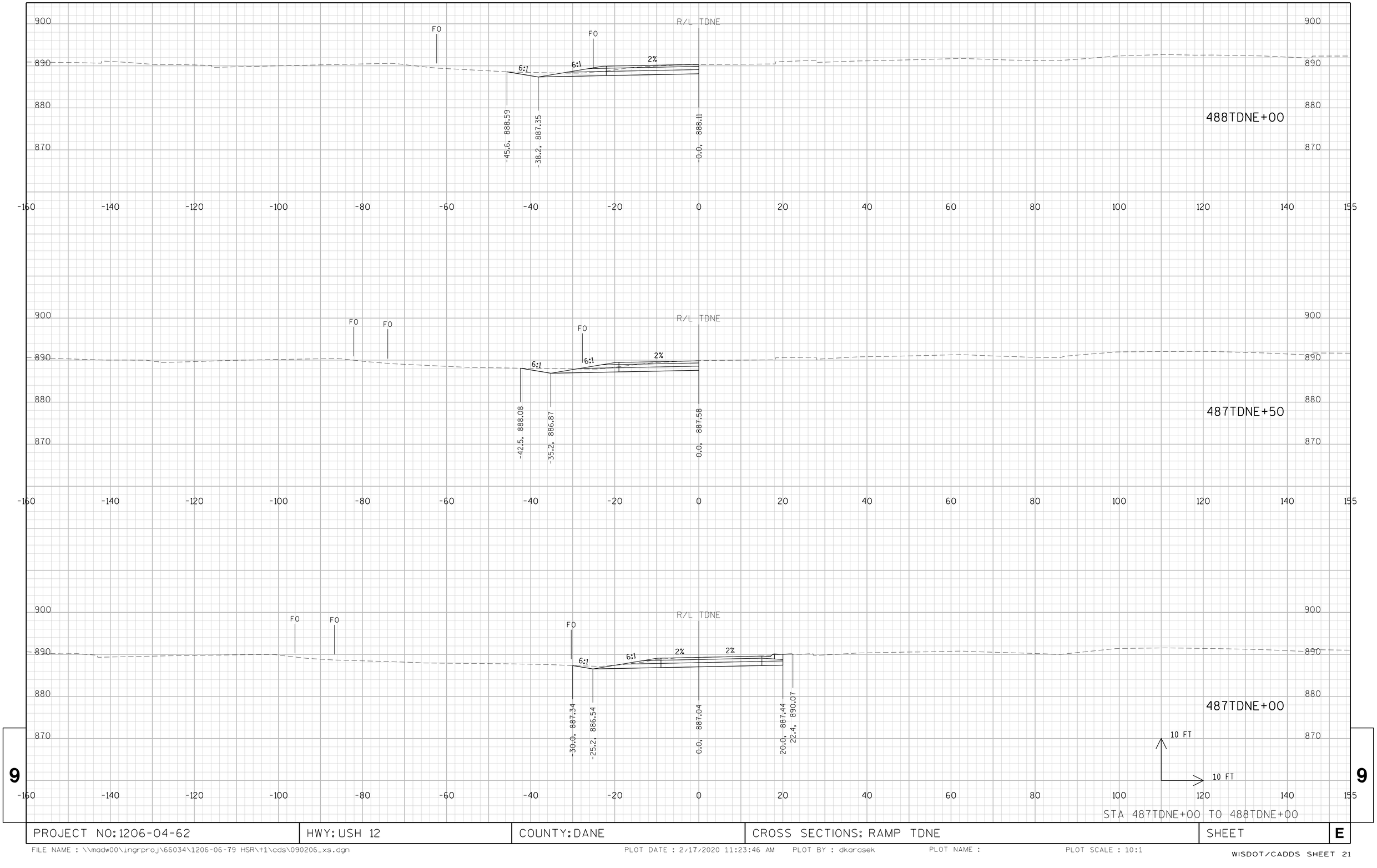
WISDOT/CADDS SHEET 21

STA 485TDNE+50 TO 486TDNE+50

PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP TDNE	SHEET	E

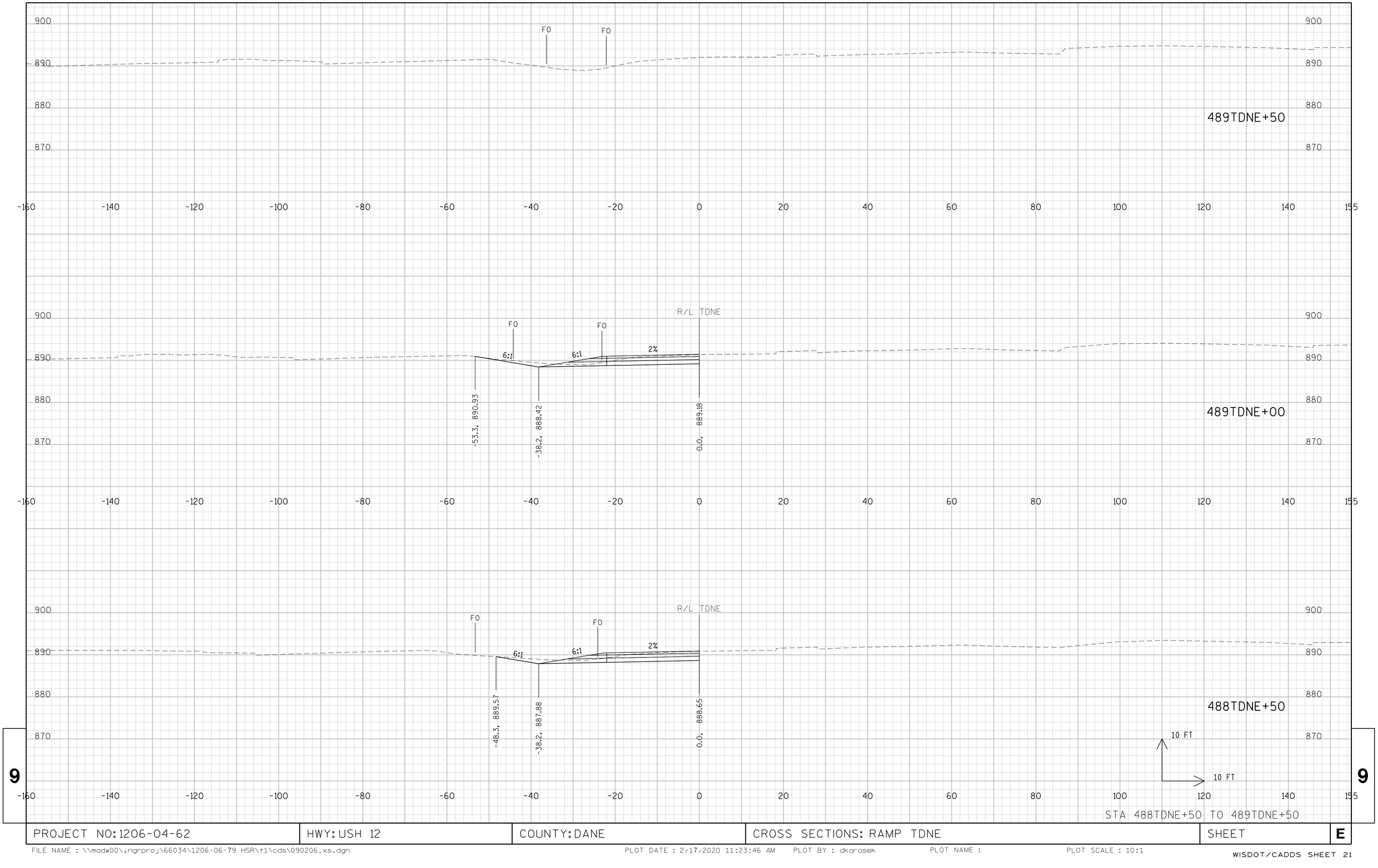
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WISDOT/CADDS SHEET 21



STA 487TDNE+00 TO 488TDNE+00

PROJECT NO:1206-04-62	HWY:USH 12	COUNTY:DANE	CROSS SECTIONS: RAMP TDNE	SHEET	E

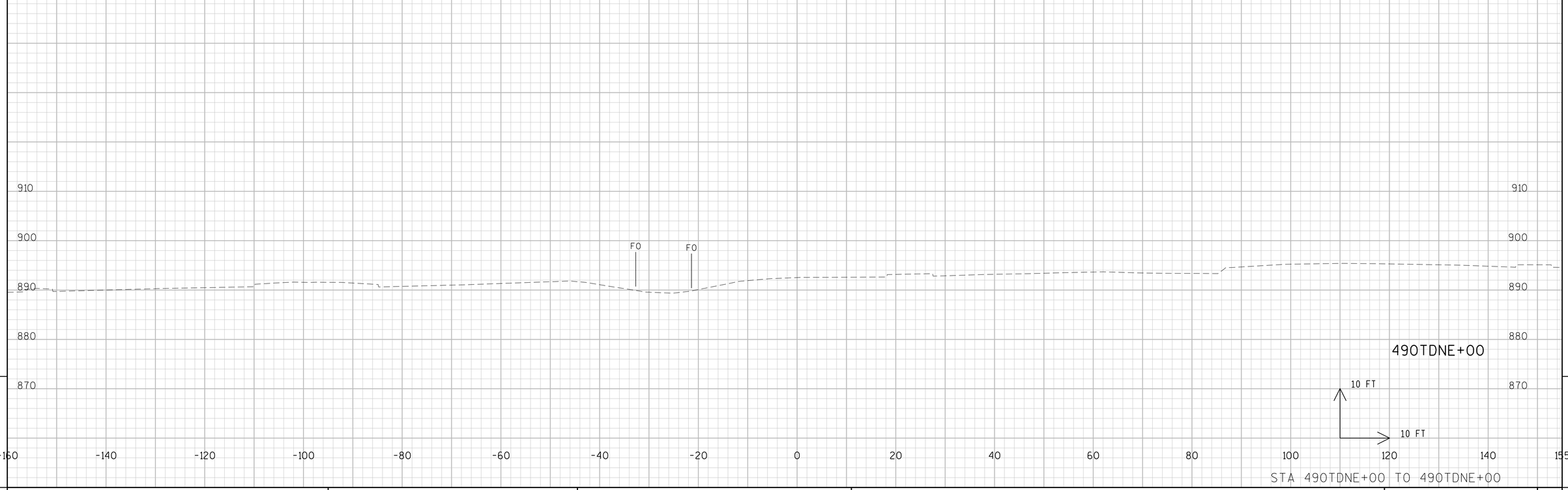


STA 488TDNE+50 TO 489TDNE+50

PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP TDNE	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\090206_xs.dgn PLOT DATE : 2/17/2020 11:23:46 AM PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 10:1

WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 1206-04-62	HWY: USH 12	COUNTY: DANE	CROSS SECTIONS: RAMP TDNE	SHEET	E

FILE NAME : \\madw00\ingrproj\66034\1206-06-79 HSR\t1\cds\090206_xs.dgn PLOT DATE : 2/17/2020 11:23:47 AM PLOT BY : dkarasek PLOT NAME : PLOT SCALE : 10:1