

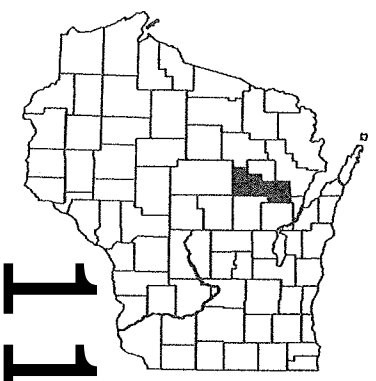
RHI
PROJECT ID: 1058-24-62
WITH:
COUNTY: SHAWANO

JANUARY 2017

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 = 82



DESIGN DESIGNATION

A.A.D.T. 2012	=	13,000
A.A.D.T. 2042	=	18,700
D.H.V.	=	17.6
D.D.	=	60/40
T.	=	20.9
DESIGN SPEED	=	70
ESALS	=	13,502,774

CONVENTIONAL SYMBOLS

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

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

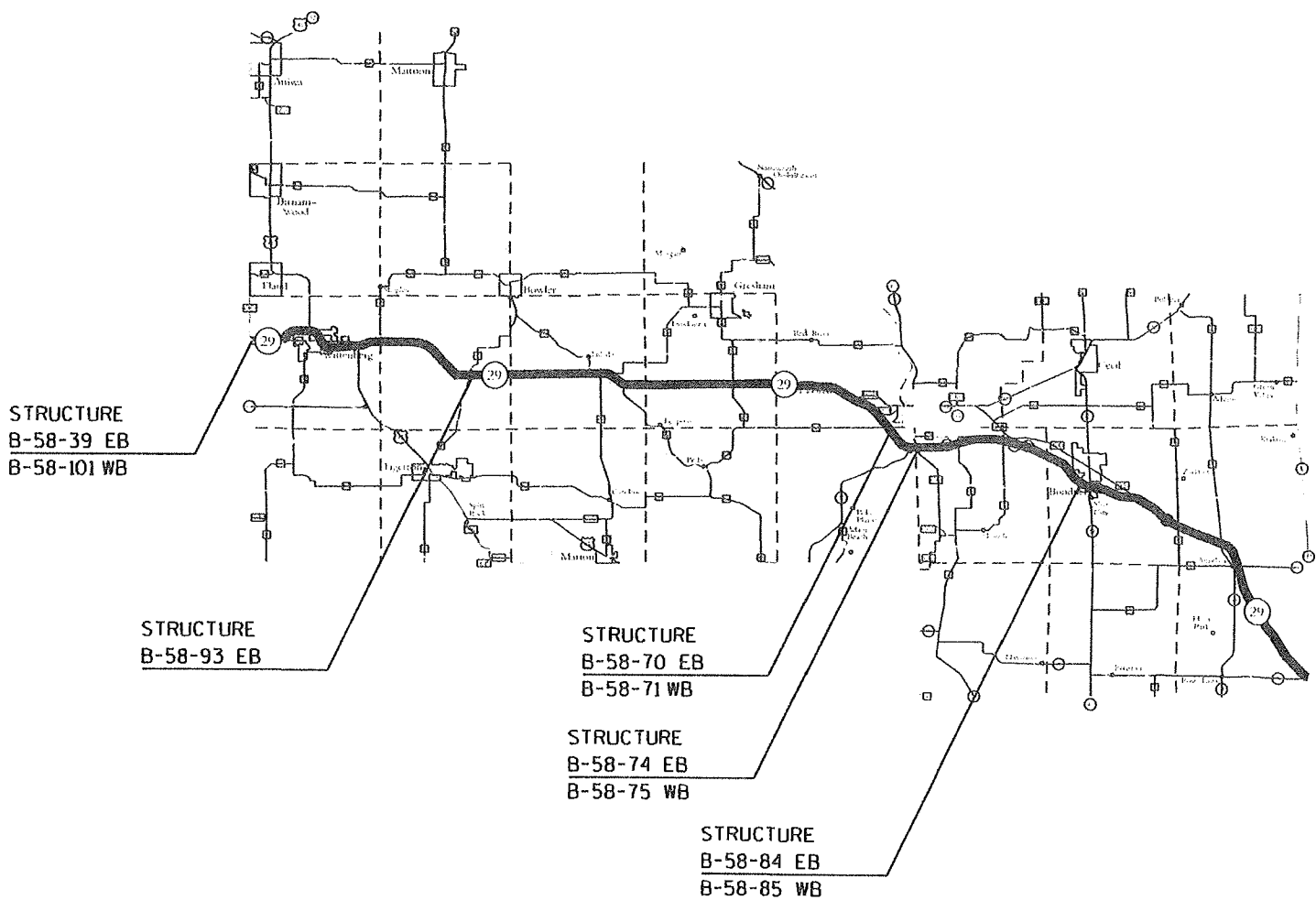
WAUSAU - GREEN BAY

B-58-39,70,71,74,75,84,85,93,101

STH 29

SHAWANO COUNTY

STATE PROJECT NUMBER
1058-24-62



LAYOUT
SCALE 0 5 MI.

*TOTAL NET LENGTH OF CENTERLINE = 0.16 MI.
*TOTAL LENGTH OF BRIDGE DECKS

"COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), 'SHAWANO' COUNTY."

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1058-24-62		

ORIGINAL PLANS PREPARED BY:

MSA
PROFESSIONAL SERVICES
TRANSPORTATION • MUNICIPAL
DEVELOPMENT • ENVIRONMENTAL

146 North Central Ave. Marshfield, WI 54449
715-381-2133 • FAX 715-381-0572 • CELL 715-384-9787

WISCONSIN
DAVID J. KATZNER
E-37043
MARSHFIELD WI
PROFESSIONAL ENGINEER

3/31/16
Date Signature

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	MSA PROFESSIONAL SERVICES, INC.
Designer	MSA PROFESSIONAL SERVICES, INC.
Project Manager	DANIEL ERVA
Regional Examiner	CHERYL SIMON
Regional Supervisor	ANNA WISNER
C.O. Examiner	

APPROVED FOR THE DEPARTMENT

DATE: 4/1/16 (Signature)

E

GENERAL NOTES

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

ALIGNMENTS WERE DEVELOPED FROM ASBUILT PLANS. COORDINATES SHOWN ON THIS PLAN ARE FOR LOCATING WORK AREAS. THE CONTRACTOR IS RESPONSIBLE TO LAYOUT STATIONING BASED ON INFORMATION PROVIDED ON PLAN SHEETS LOCATED IN SECTION 5 OF THIS PLAN.

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

DNR LIASON

JAMES DOPERALSKI
PHONE: (920) 662-5119
james.doperalski@wisconsin.gov

UTILITIES

COMMUNICATION LINE:
CENTURY LINK
1310 EAST MARY ST.
OTTUMWA, IA 52501
ATTN: BOB SAMPSON
Robert.Sampson@centurylink.com

COMMUNICATION LINE:
FRONTIER COMMUNICATIONS OF WI LLC
26 W 12TH STREET
CLINTONVILLE, WI 54929
ATTN: JAMES JASKOLSKI
PHONE: (715) 823-1227
james.jaskolski@ftr.com

COMMUNICATION LINE:
PACKERLAND BROADBAND
105 KENT ST.
P.O. BOX 190
IRON MOUNTIAN, MI 49801
ATTN: WAYNE CRETTON
PHONE: (906) 282-3768
wayne.cretton@packerlandbroadband.com

COMMUNICATION LINE:
TDS TELECOM
10 COLLEGE AVE, SUITE 218A
APPLETON, WI 54911
ATTN: STEVE JAKUBIEC
PHONE: (920) 562-7221
steve.jakubiec@tdstelecom.com

ELECTRICITY:
ALLIANT ENERGY
4902 N BILTMORE LN., SUITE 1000
MADISON, WI 53718
ATTN: JASON HOGAN
PHONE: (608) 458-4871
jasonhogan@alliantenergy.com

ELECTRICITY:
ATC MANAGEMENT, INC.
801 O'KEEFE RD.
P.O. BOX 6113
DE PERE, WI 54115-6113
ATTN: DOUG VOSBERG
PHONE: (608) 877-7650
dvosberg@atcinc.com

ELECTRICITY:
CENTRAL WISCONSIN ELECTRIC COOPERATIVE
10401 LYSTUL ROAD
ROSHOLT, WI 54473
ATTN: JEFF RICE
PHONE: (715) 677-2211
jeff.rice@cwecoop.com

GAS/PETROLEUM:
WISCONSIN PUBLIC SERVICE CORPORATION
1700 SHERMAN STREET
WAUASAU, WI 54402
ATTN: MIKE BOSI
PHONE: (715) 803-8009
MABosi@wisconsinpublicservice.com

SEWER:
CITY OF SHAWANO - SEWER
2905 E. RICHMOND ST.
SHAWANO, WI 54166
ATTN: PATRICK BEIGNER
PHONE: (715) 526-3512
pbeigner@shawanonet.net

SEWER:
BONDUEL WATER & SEWER UTILITY - SEWER
P.O. BOX 67
BONDUEL, WI 54107-0067
ATTN: STEVE BERNDT
PHONE: (715) 758-8779

WATER:
BONDUEL WATER & SEWER UTILITY - WATER
P.O. BOX 67
BONDUEL, WI 54107-0067
ATTN: STEVE BERNDT
(715) 758-8779

WATER:
CITY OF SHAWANO - WATER
2905 E RICHMOND ST.
SHAWANO, WI 54166
ATTN: PATRICK BEIGNER
PHONE: (715) 526-3512
pbeigner@shawanonet.net



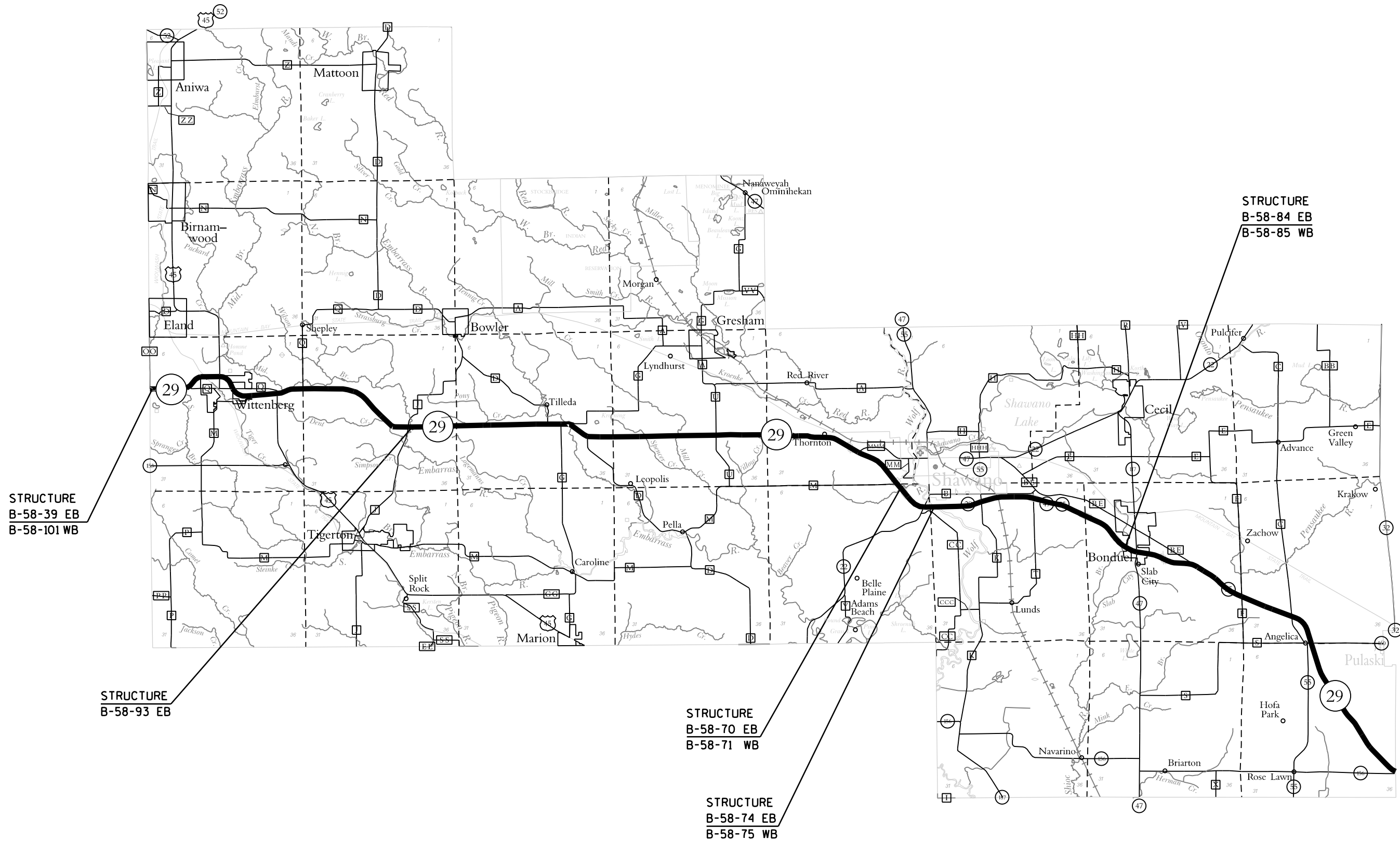
Dial 811 or (800)242-8511

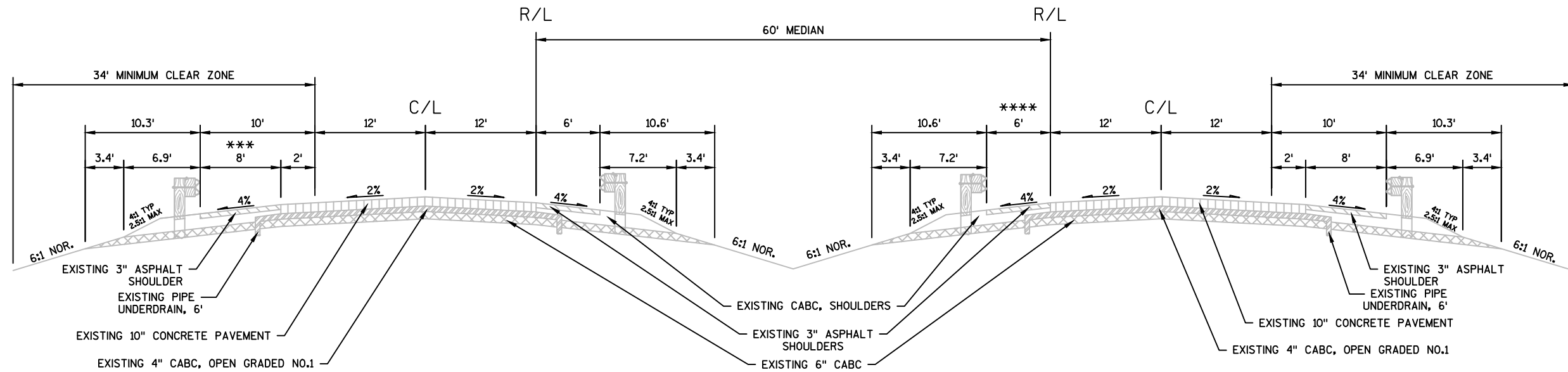
www.DiggersHotline.com

BENCHMARK DATA

HORIZONTAL DATUM = NAD83 (2007)			
COORDINATE SYSTEM = WCCS, SHAWANO COUNTY ZONE (9558)			
NO.	APPROXIMATE NORTHING	APPROXIMATE EASTING	DESCRIPTION
BM58	289012	700947	BRASS WDOT DISK B-58-101
BM76	265990	854242	BRASS WDOT DISK B-58-70
BM77	266030	854374	BRASS WDOT DISK B-58-71
BM80	261860	860872	BRASS WDOT DISK B-58-74
BM81	262005	861259	BRASS WDOT DISK B-58-75
BM92	253198	899864	BRASS WDOT DISK B-58-84
BM93	253214	900062	BRASS WDOT DISK B-58-85

NOTE: DATA FROM BENCHMARKS AND CONTROL POINTS ARE SHOWN IN THE ABOVE TABLE. THE LOCATION OF BENCHMARKS AND CONTROL POINTS WHICH ARE LOCATED NEAR A WORK AREA ARE SHOWN ON THE SECTION 5 PLANS.

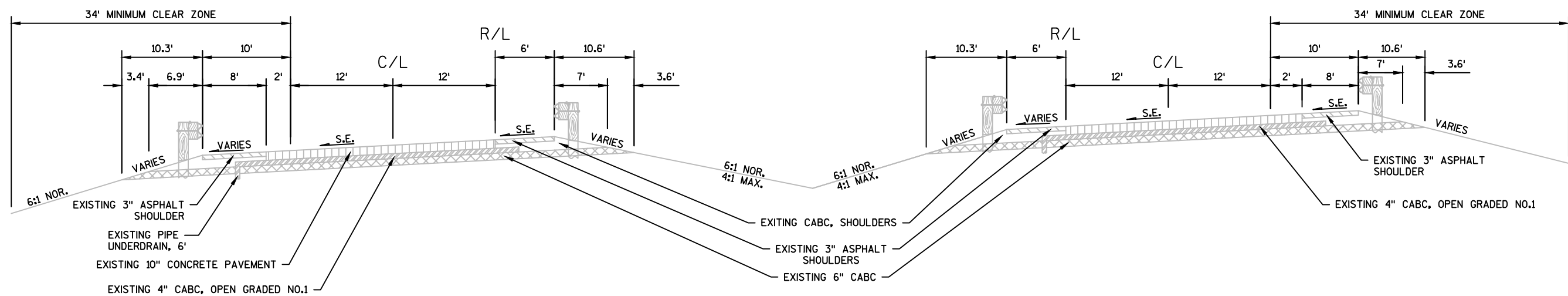




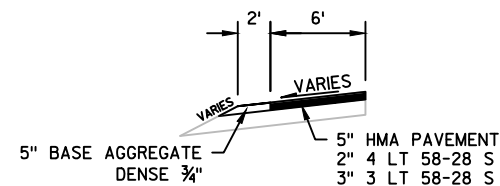
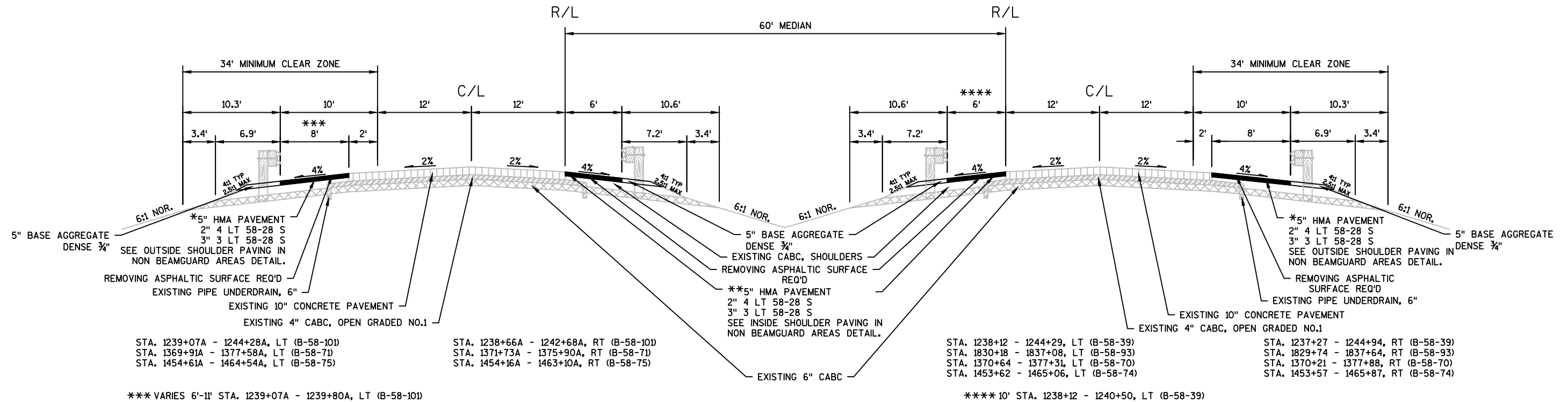
*** 6'-11' B-58-101
6'-14' B-58-75

EXISTING TYPICAL SECTION
STH 29
B-58-39 & 101
B-58-93
B-58-70 & 71
B-58-74 & 75
(LOOKING EAST)

**** 10' B-58-39

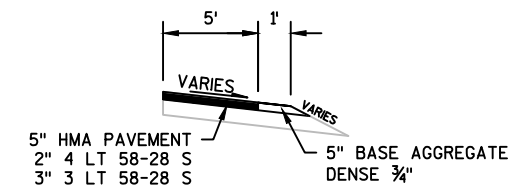


EXISTING TYPICAL SECTION
STH 29
B-58-84 & 85
(LOOKING EAST)



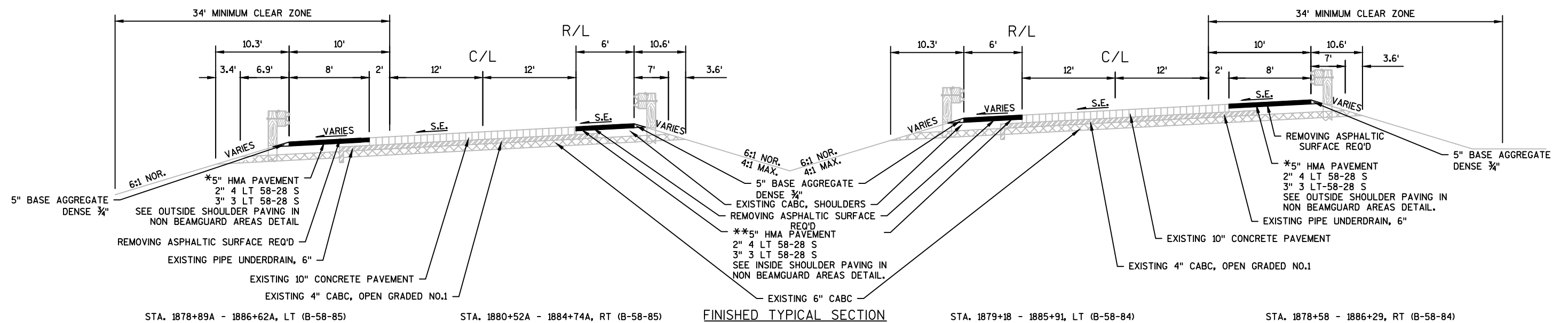
OUTSIDE SHOULDER PAVING IN NON BEAMGUARD AREAS DETAIL

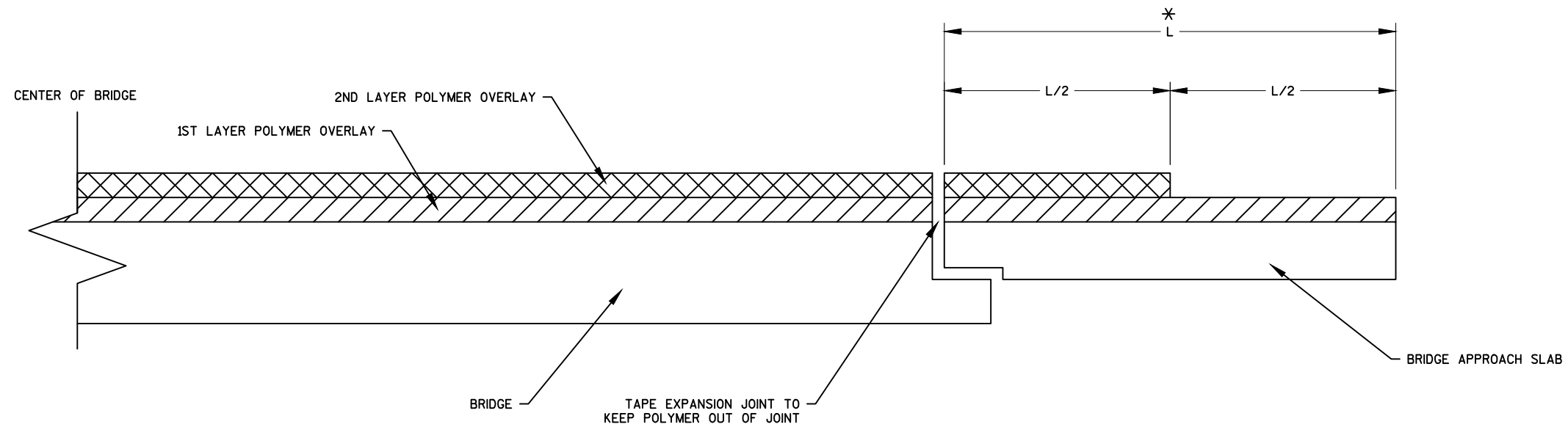
* AREAS NEEDED FOR LANE SHIFTS NEAR STRUCTURES



INSIDE SHOULDER PAVING IN NON BEAMGUARD AREAS DETAIL

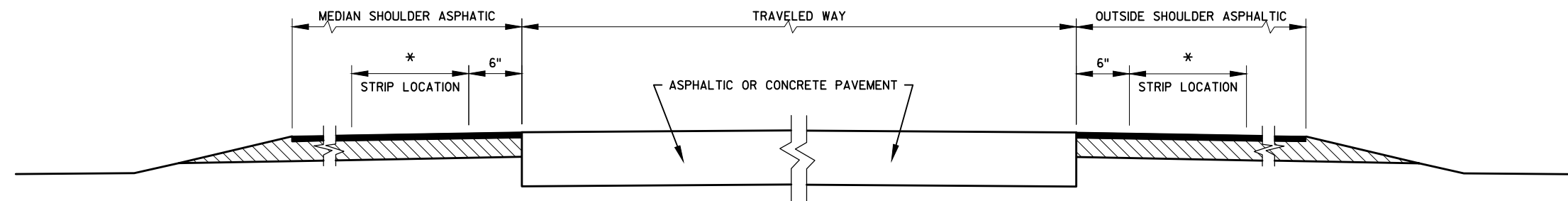
** AREAS NEEDED FOR LANE SHIFTS NEAR STRUCTURES





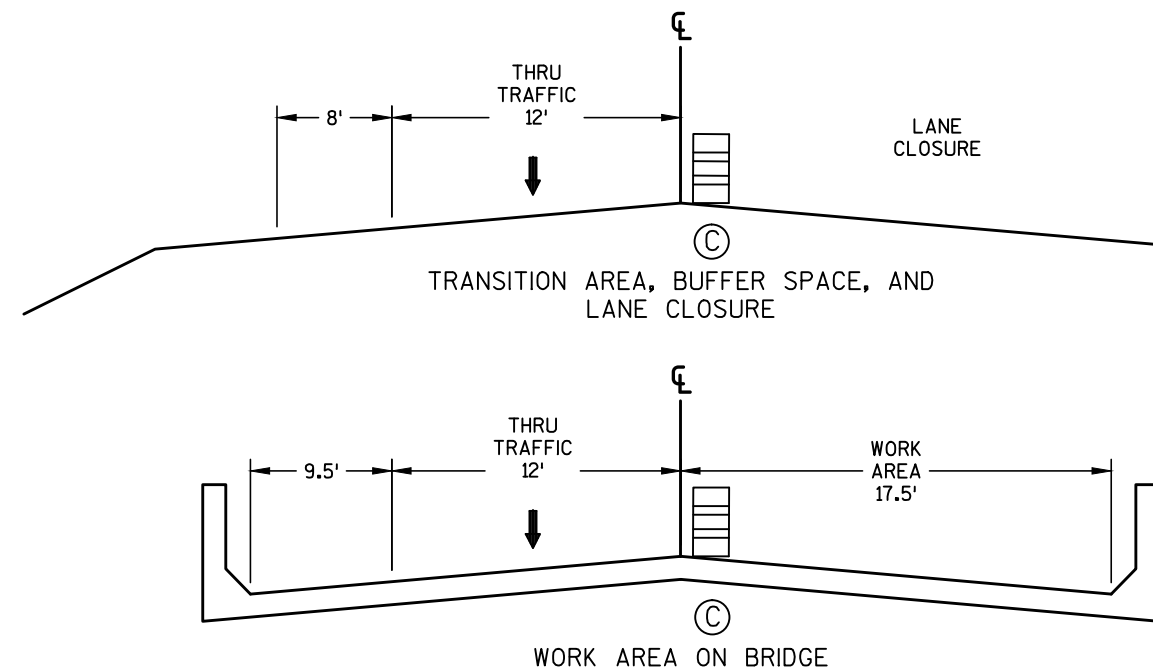
SECTION VIEW AT CENTERLINE
POLYMER OVERLAY CONSTRUCTION DETAIL
NOTE: SYMMETRICAL ABOUT CENTER OF BRIDGE

* VARIES BETWEEN 18'-29' AT
CENTERLINE OF ROADWAY



SECTION VIEW
TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS

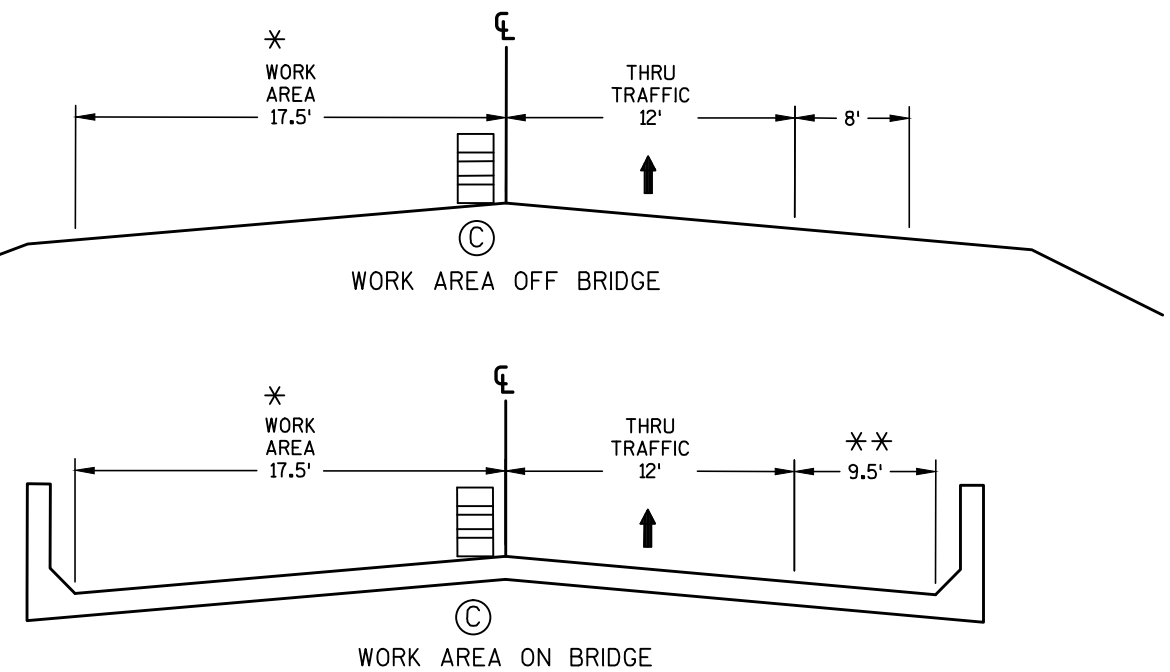
* WIDTH AND SPACING SHALL FOLLOW S.D.D. SHOULDER RUMBLE STRIP, MILLING



TYPICAL SECTION - STAGE 1

STH 29 WB (LOOKING EAST)

© - TRAFFIC CONTROL DRUM

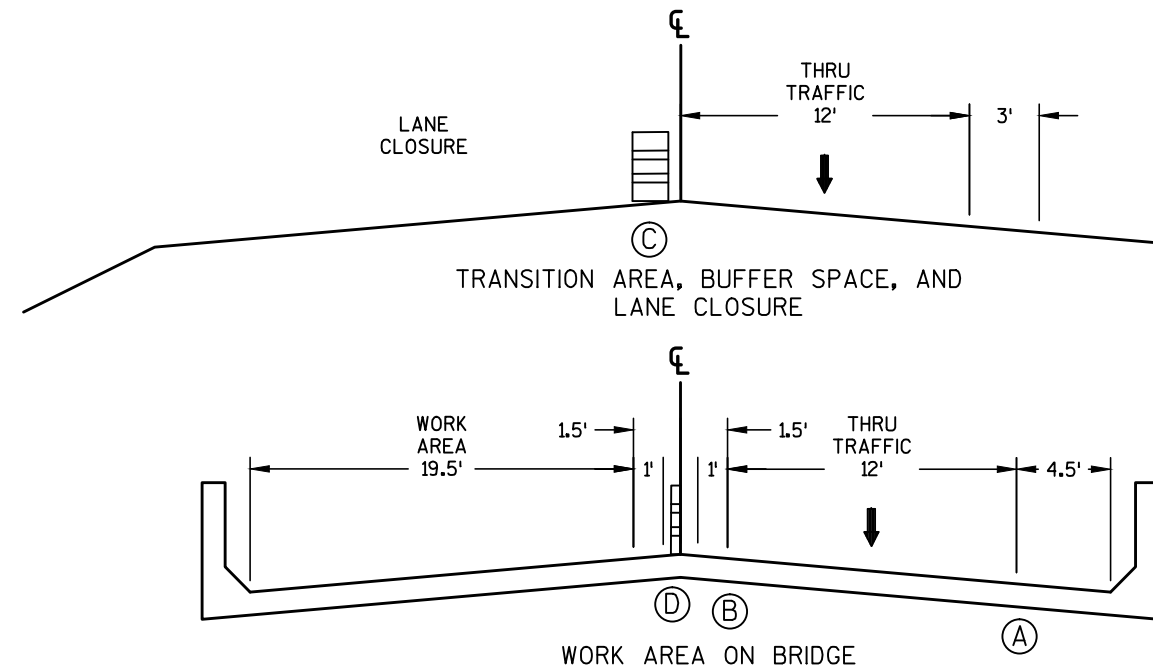


TYPICAL SECTION - STAGE 1

STH 29 EB (LOOKING EAST)

*22' WORK AREA WIDTH FOR B-58-39
 **SHOULDER WIDTH VARIES FOR B-58-74 9.5' MINIMUM

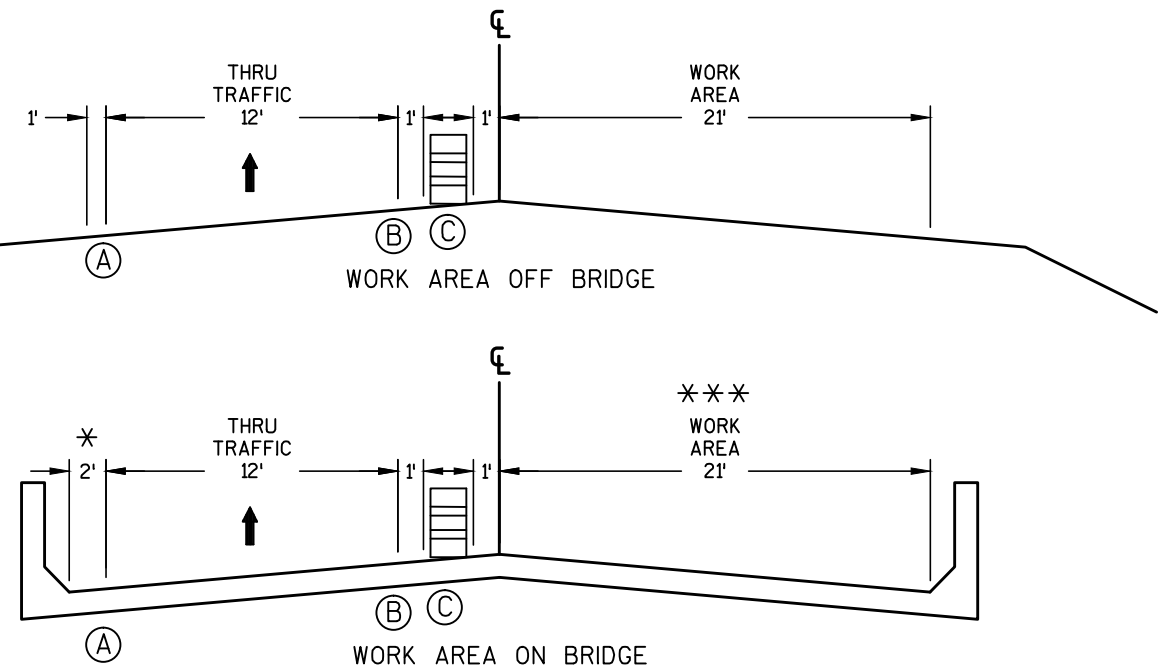
© - TRAFFIC CONTROL DRUM



TYPICAL SECTION - STAGE 2

STH 29 WB (LOOKING EAST)

- (A) - TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH WHITE
- (B) - TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH YELLOW
- (C) - TRAFFIC CONTROL DRUM
- (D) - SLIM LINE CHANNELIZER (IN TANGENT AREA ONLY)

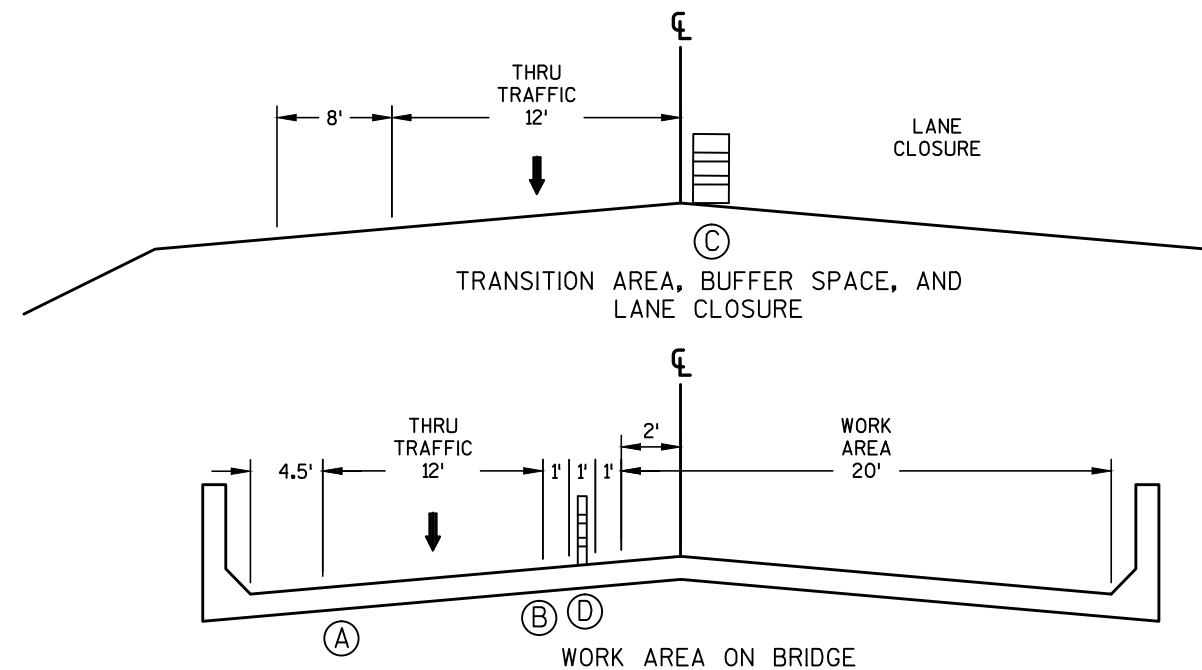


TYPICAL SECTION - STAGE 2

STH 29 EB (LOOKING EAST)

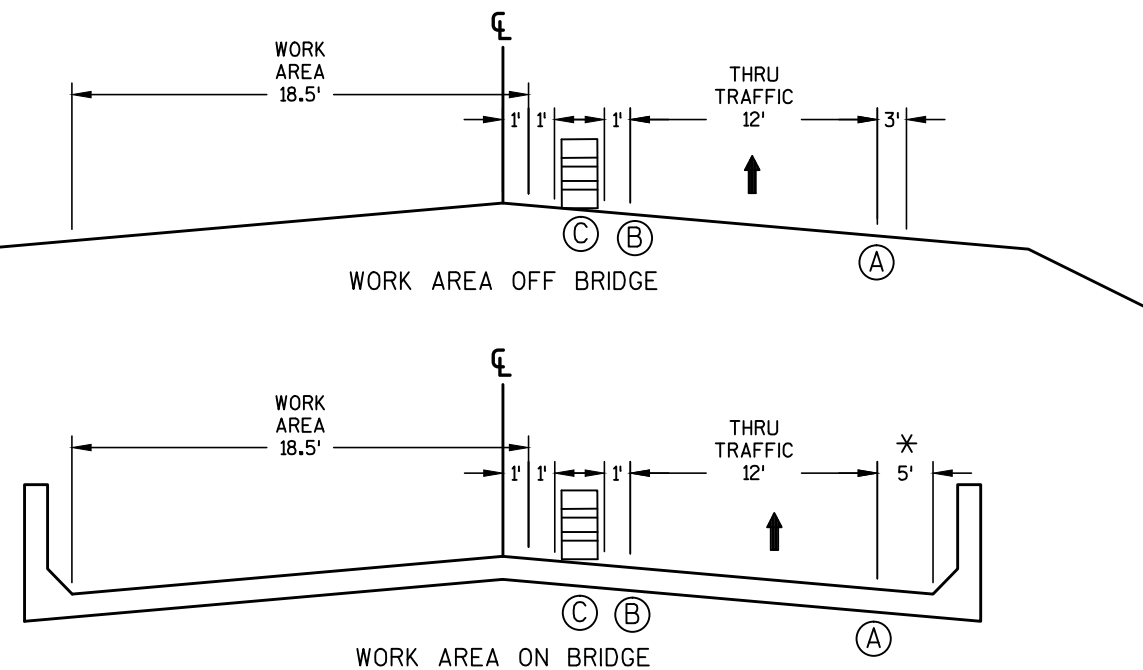
- *6' SHOULDER WIDTH FOR B-58-39
- **10' SHOULDER WIDTH FOR B-58-39
- ***WORK AREA WIDTH VARIES FOR B-58-74

- (A) - TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH WHITE
- (B) - TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH YELLOW
- (C) - TRAFFIC CONTROL DRUM



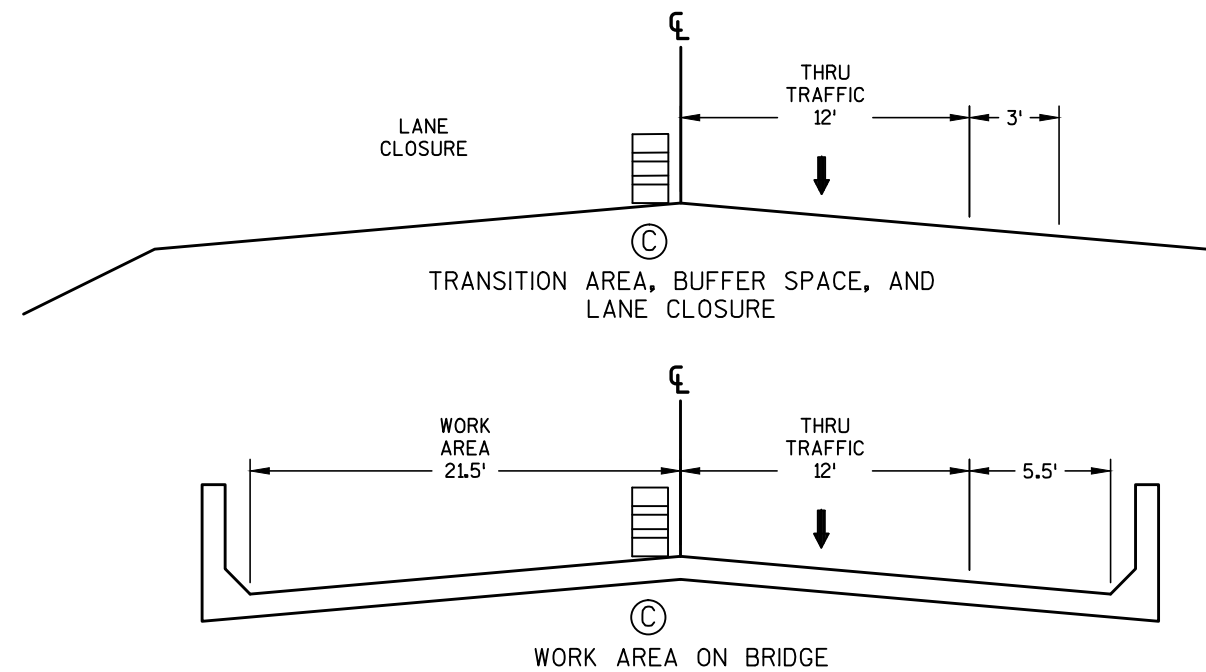
TYPICAL SECTION - STAGE 3
STH 29 WB (LOOKING EAST)

- Ⓐ - TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH WHITE
- Ⓑ - TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH YELLOW
- Ⓒ - TRAFFIC CONTROL DRUM
- Ⓓ - SLIM LINE CHANNELIZER (IN TANGENT AREA ONLY)



TYPICAL SECTION - STAGE 3
STH 29 EB (LOOKING EAST)

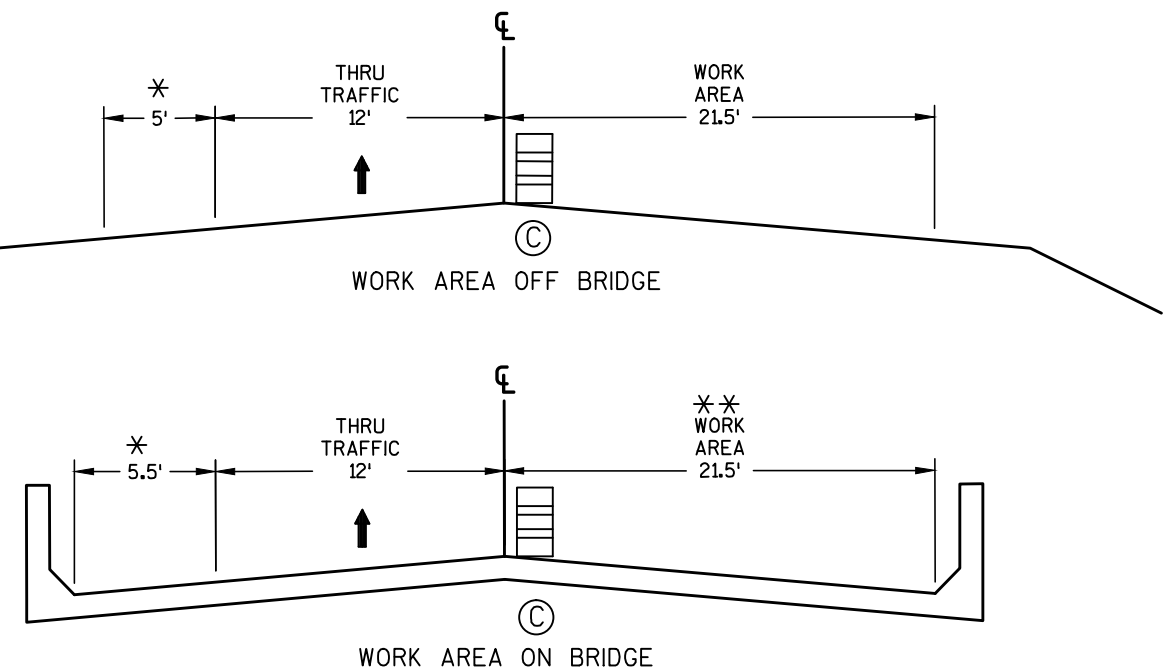
- * B-58-74 VARIES 5' MINIMUM
- Ⓐ - TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH WHITE
- Ⓑ - TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH YELLOW
- Ⓒ - TRAFFIC CONTROL DRUM



TYPICAL SECTION - STAGE 4

STH 29 WB (LOOKING EAST)

© - TRAFFIC CONTROL DRUM

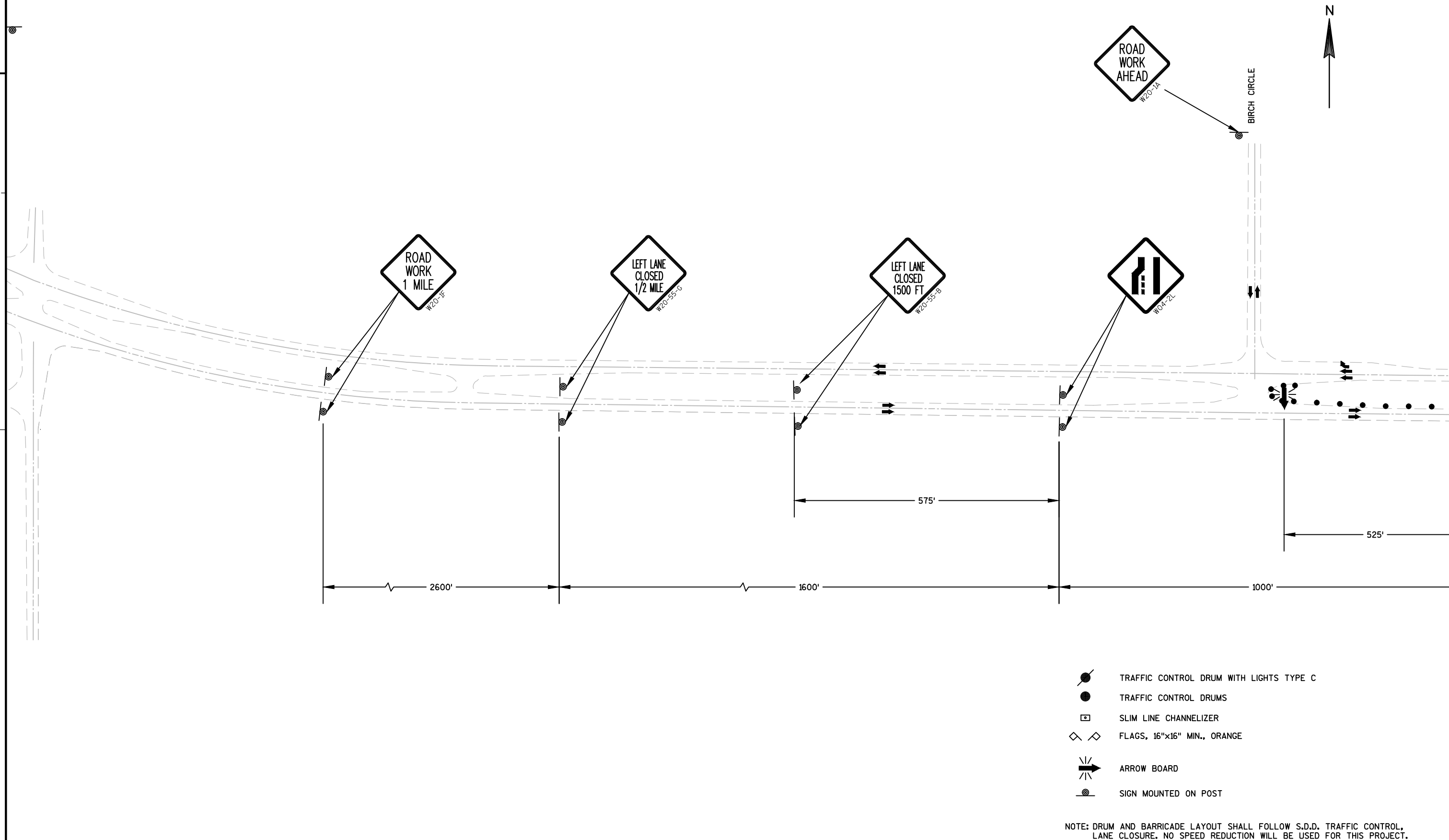


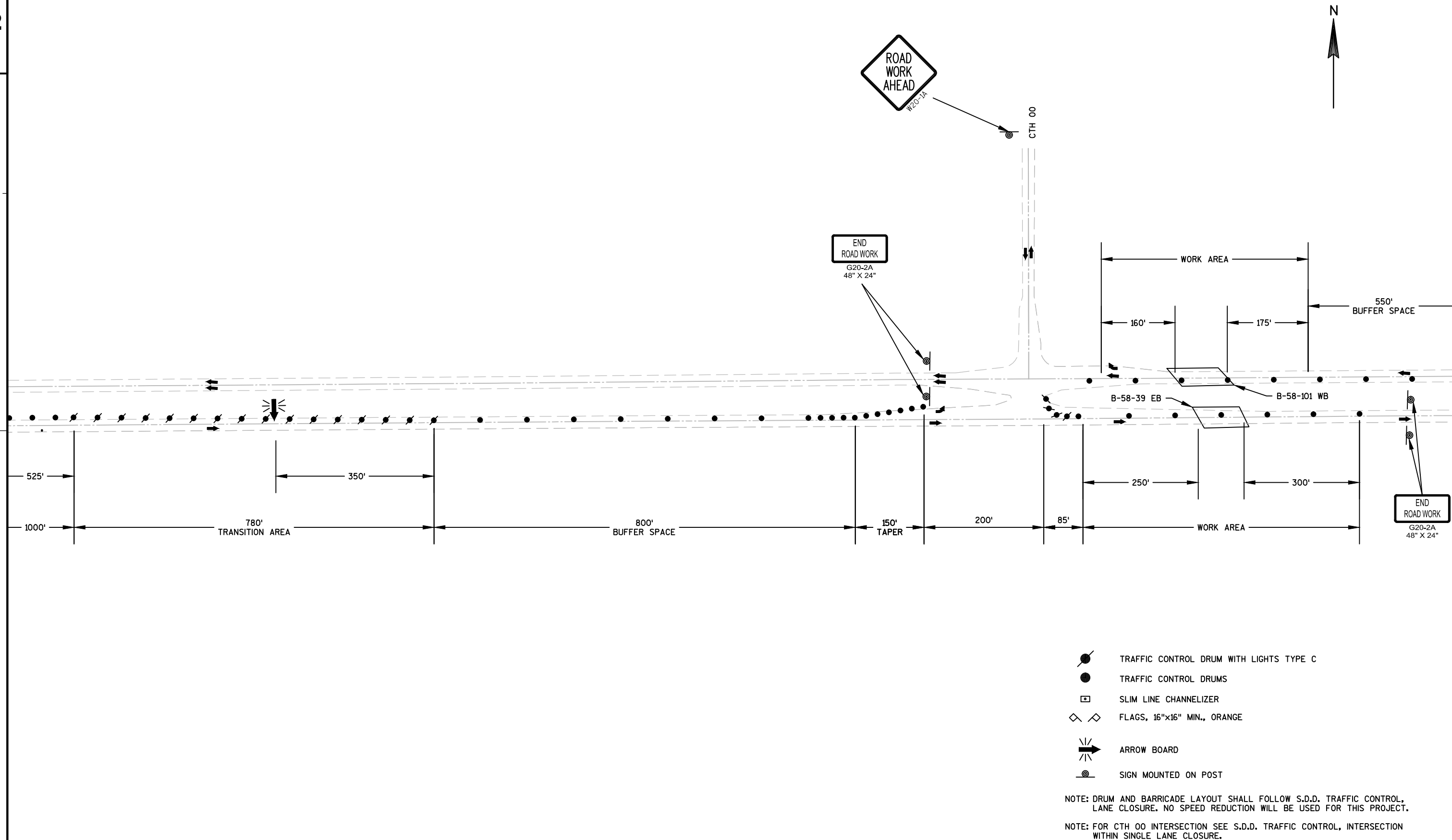
TYPICAL SECTION - STAGE 4

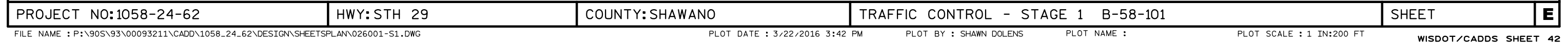
STH 29 EB (LOOKING EAST)

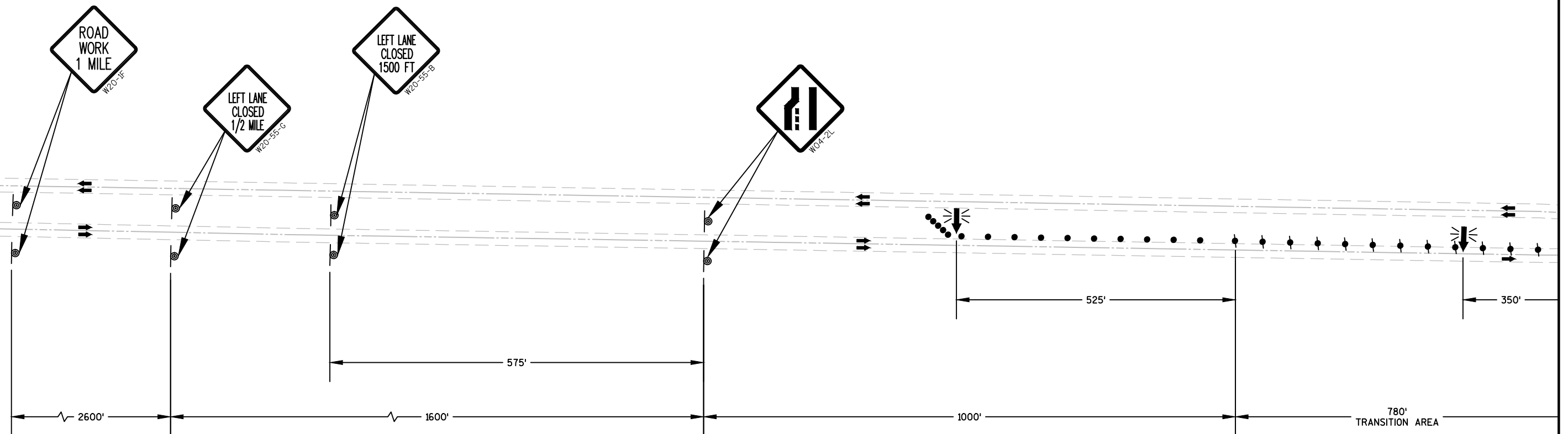
© - TRAFFIC CONTROL DRUM







* 10' SHOULDER WIDTH FOR B-58-39
 ** WORK AREA WIDTH VARIES FOR B-58-74 21.5 MINIMUM



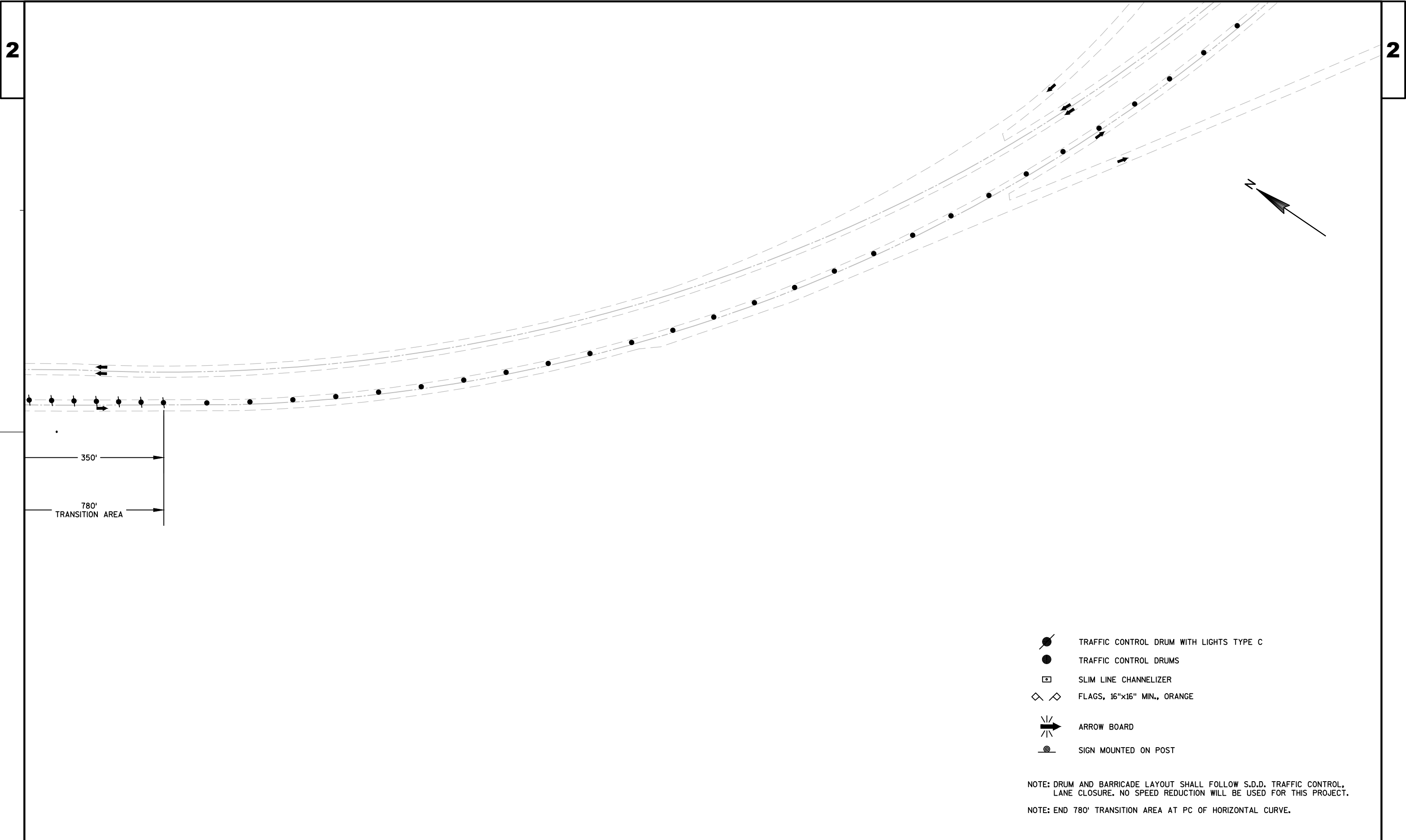


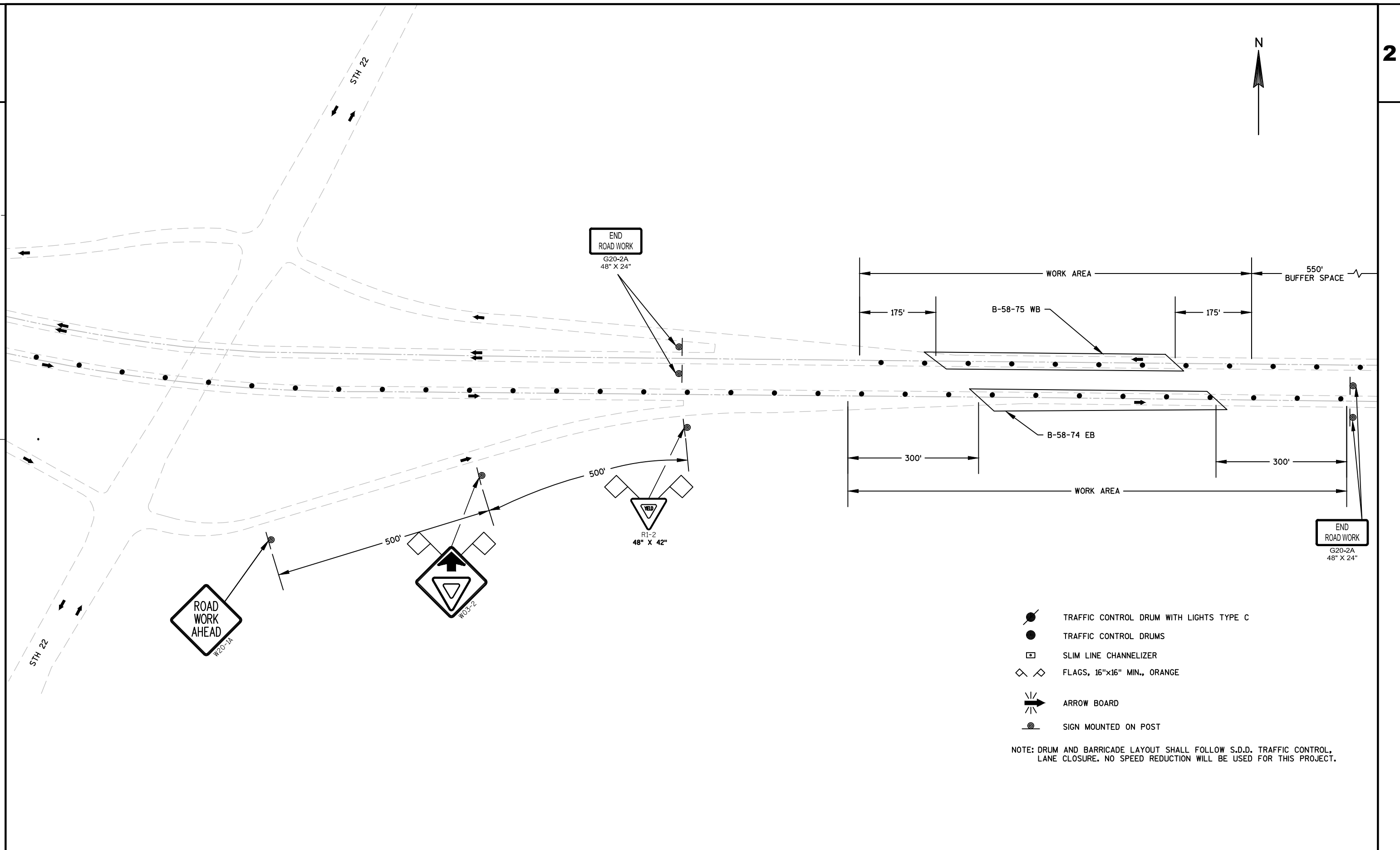


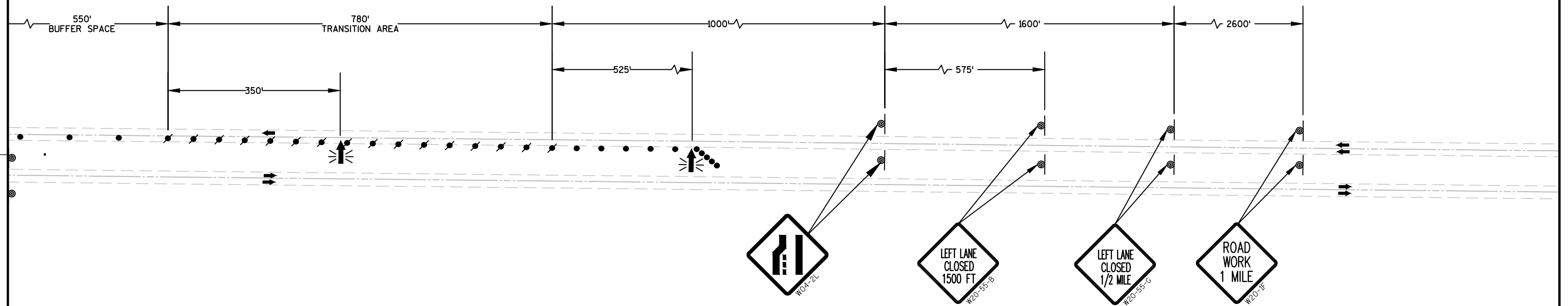








-  TRAFFIC CONTROL DRUM WITH LIGHTS TYPE C
-  TRAFFIC CONTROL DRUMS
-  SLIM LINE CHANNELIZER
-  FLAGS, 16"x16" MIN., ORANGE
-  ARROW BOARD
-  SIGN MOUNTED ON POST

NOTE: DRUM AND BARRICADE LAYOUT SHALL FOLLOW S.D.D. TRAFFIC CONTROL, LANE CLOSURE. NO SPEED REDUCTION WILL BE USED FOR THIS PROJECT.

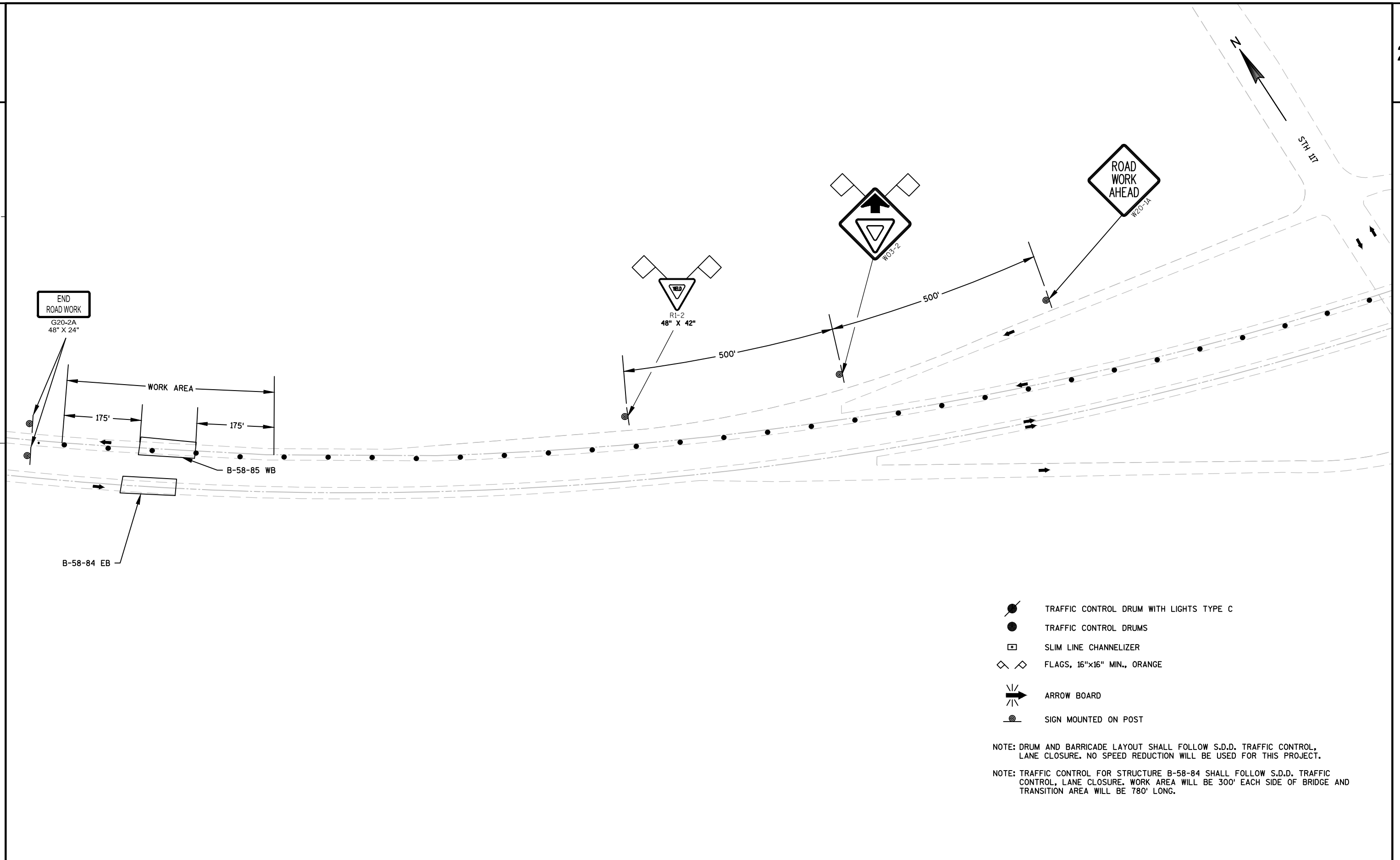


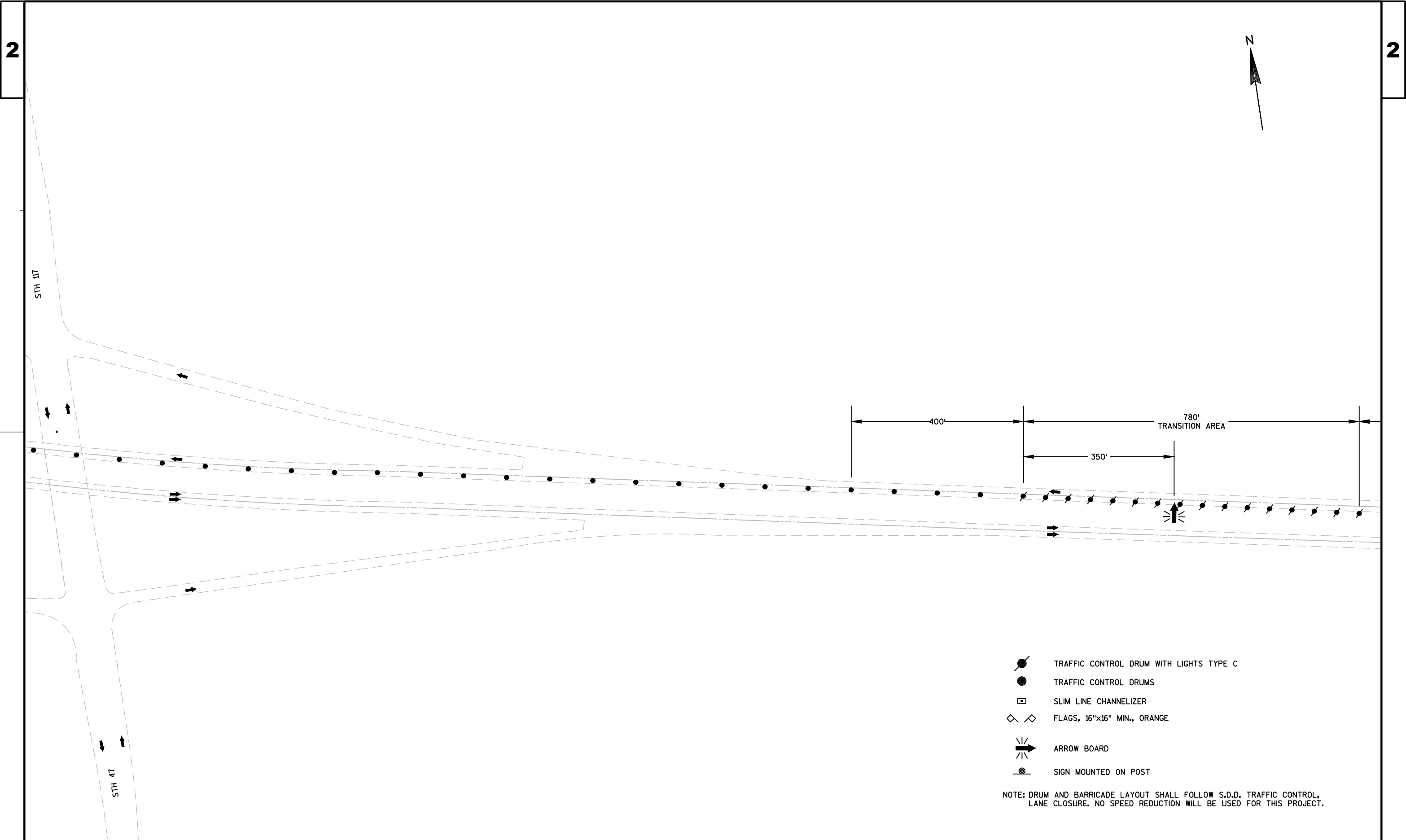


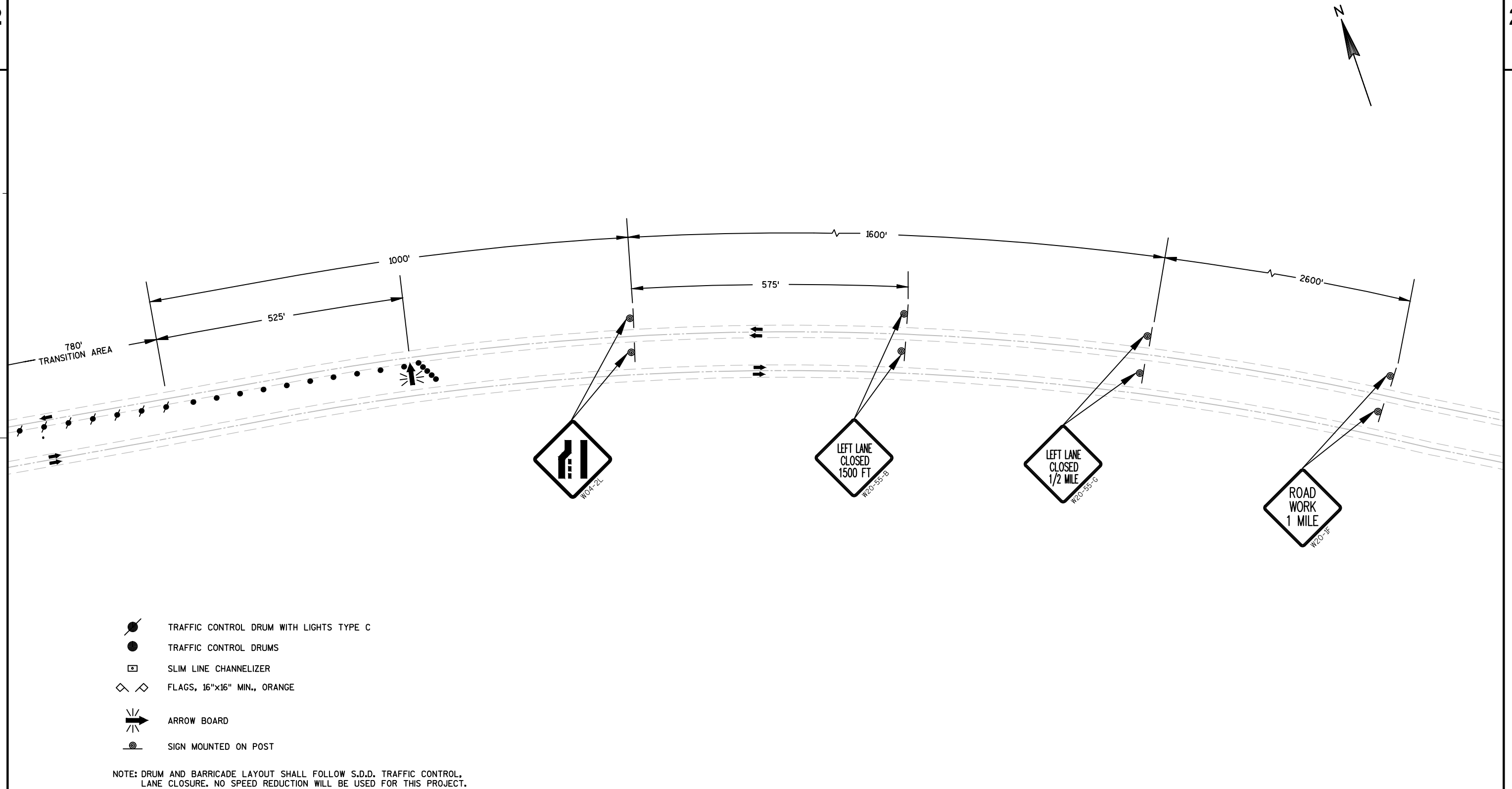


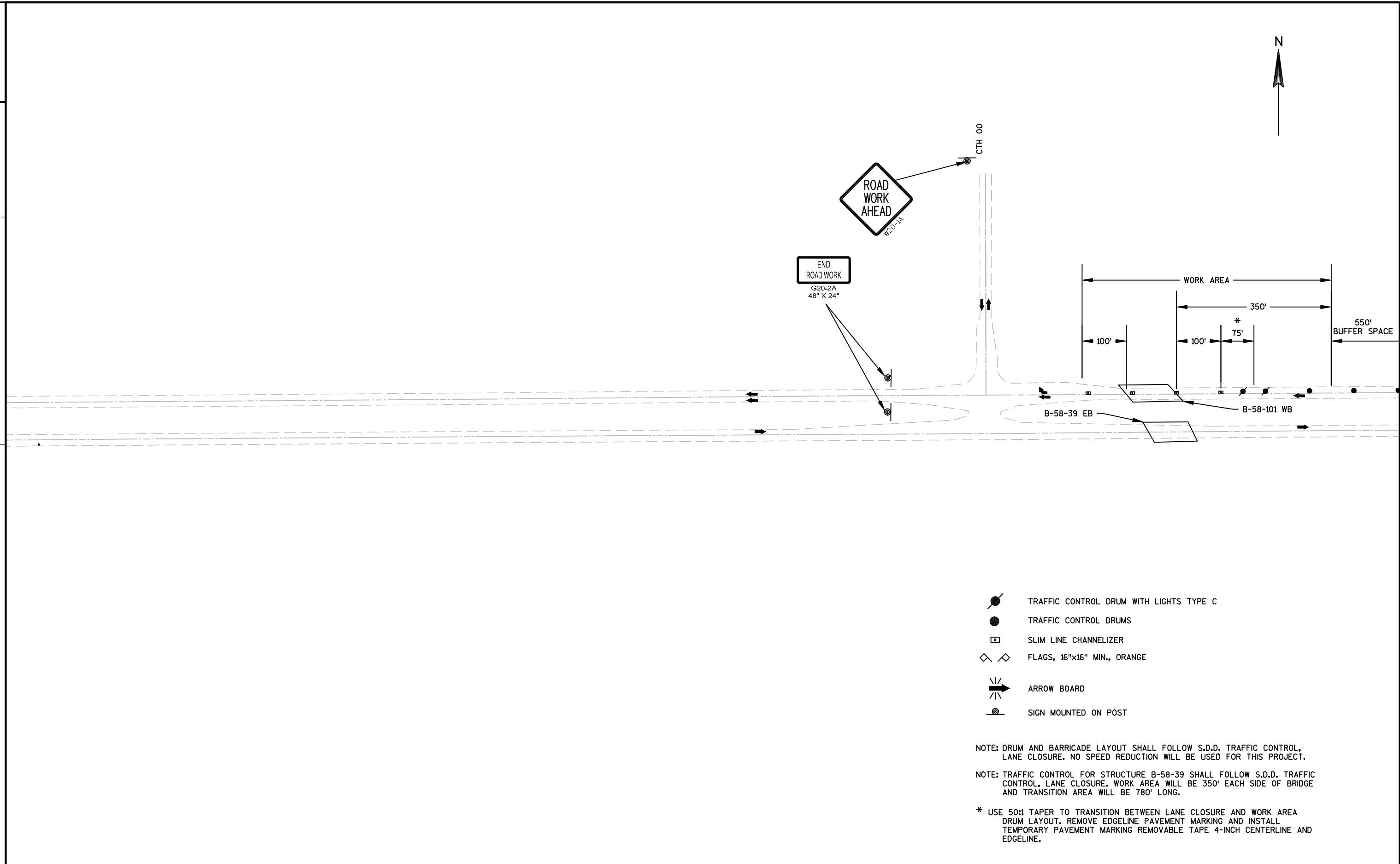
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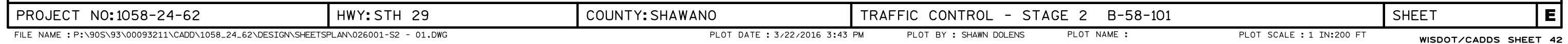
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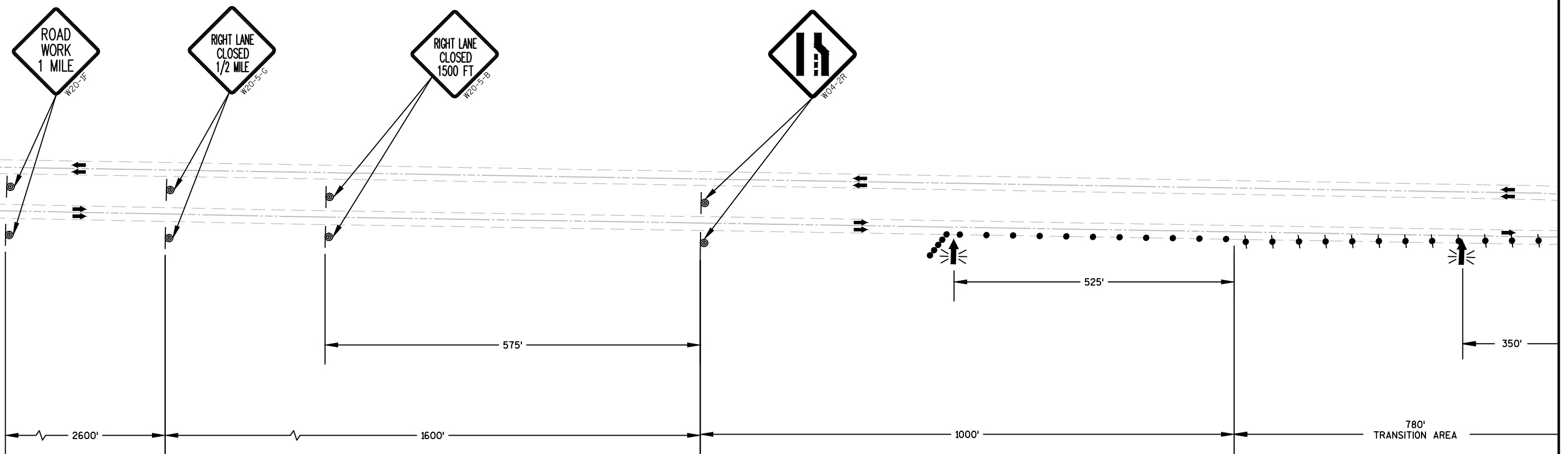
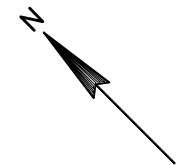












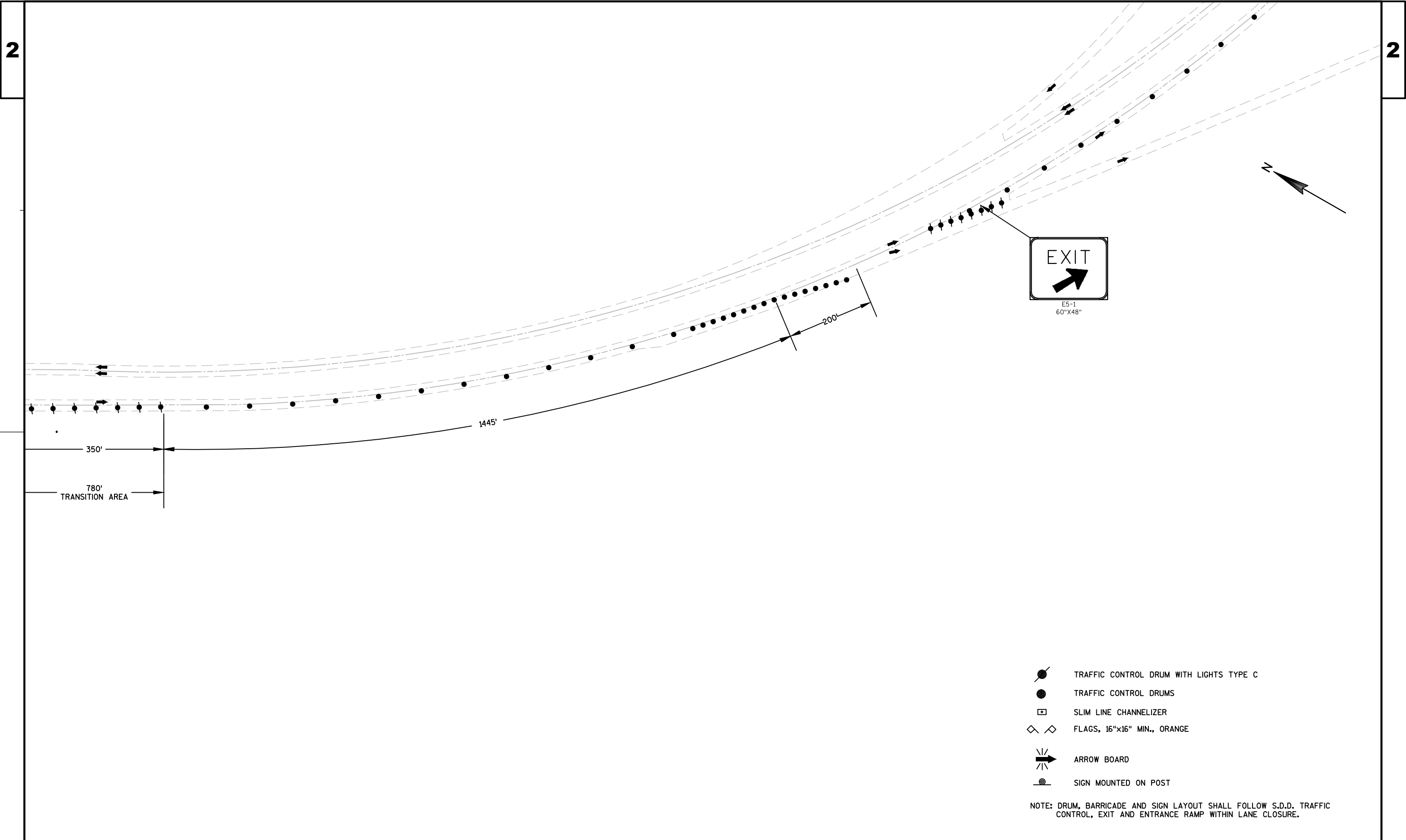


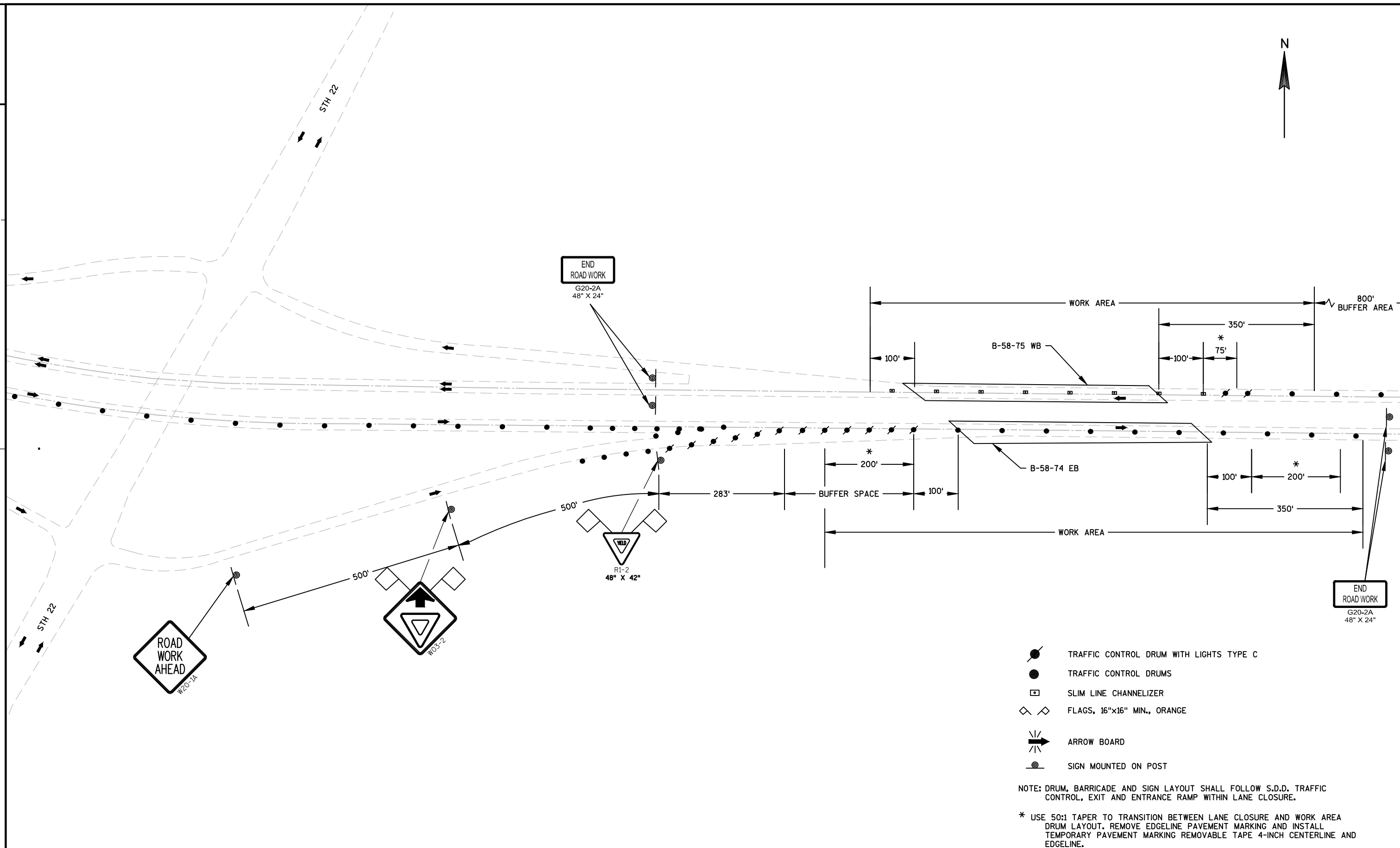


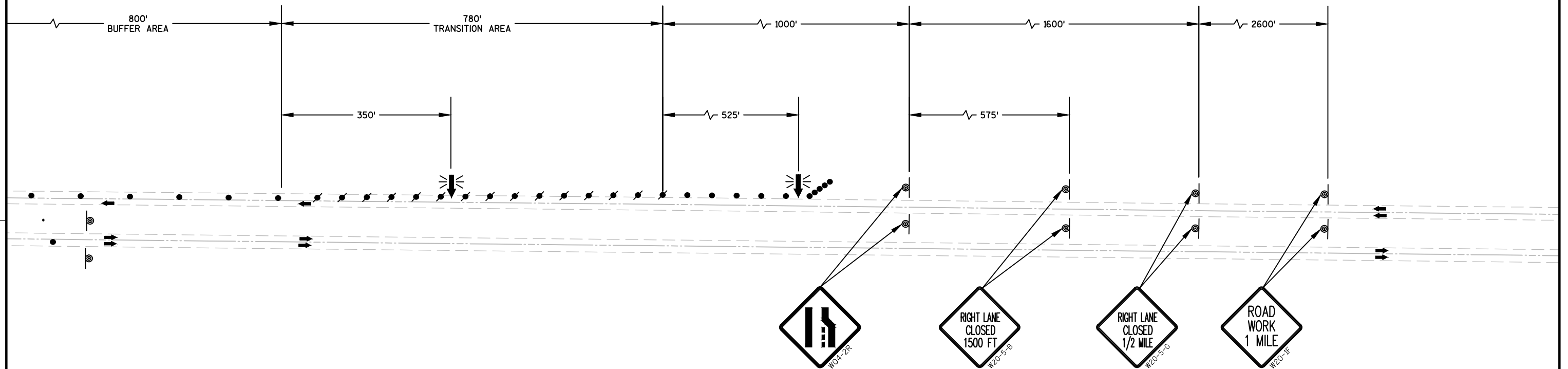


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-  TRAFFIC CONTROL DRUMS
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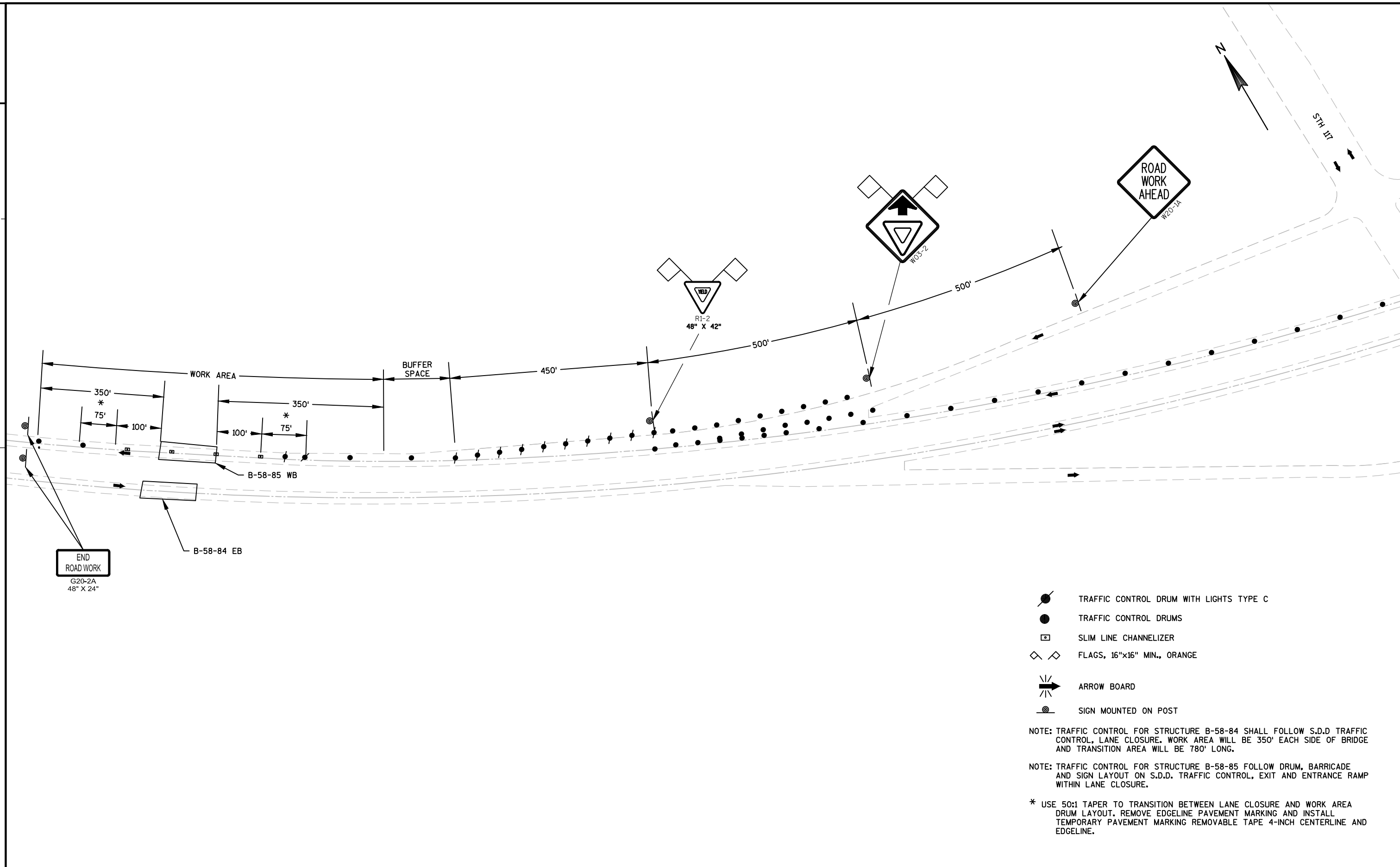


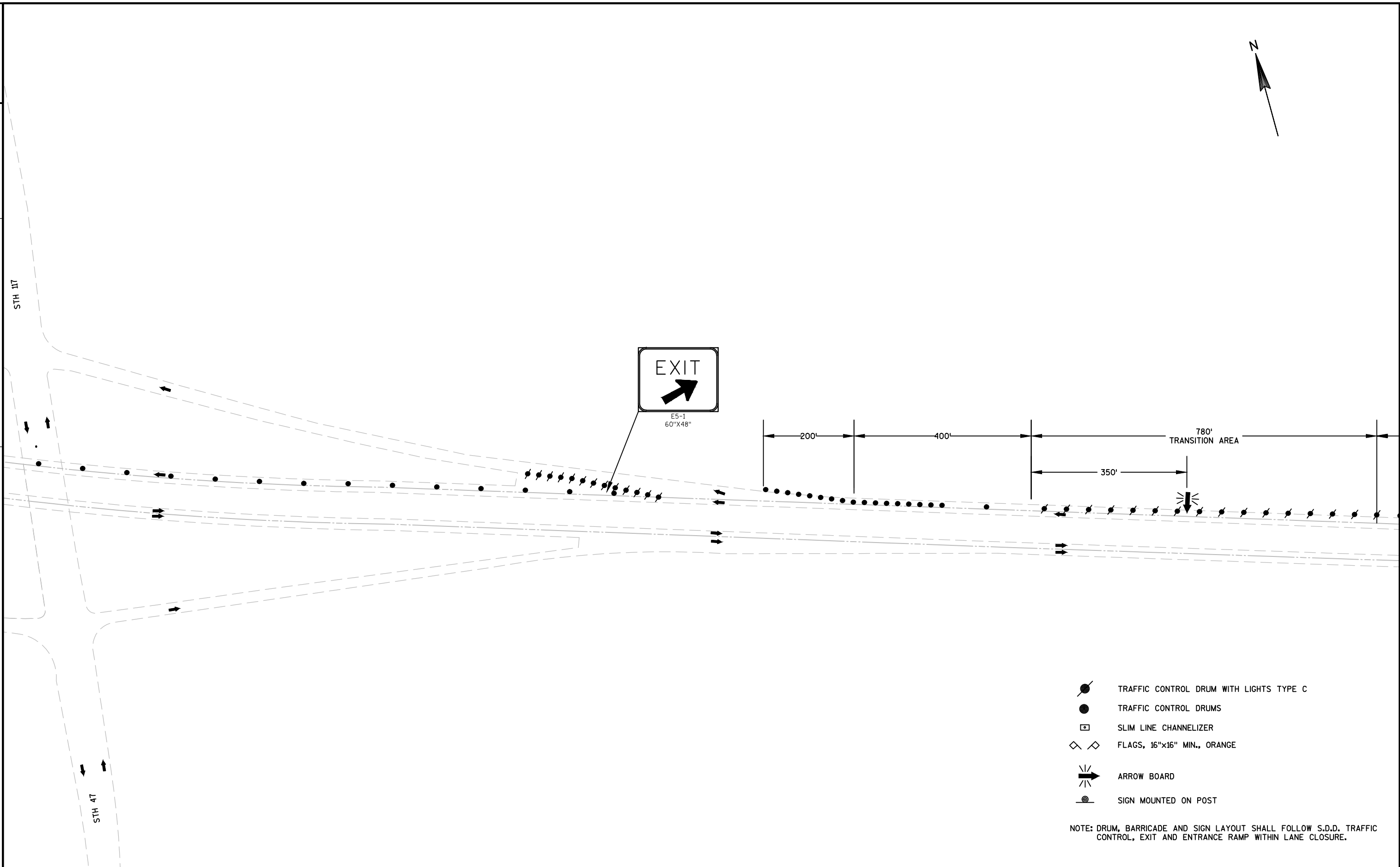


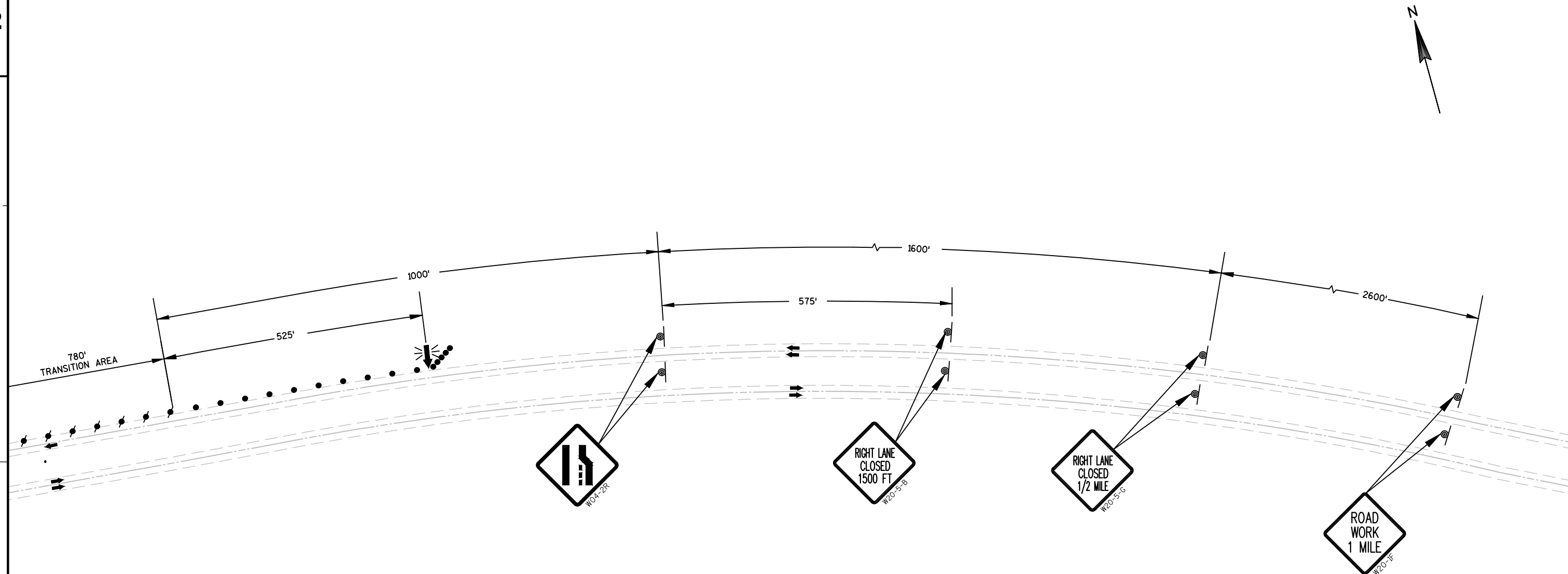








- TRAFFIC CONTROL DRUM WITH LIGHTS TYPE C
- TRAFFIC CONTROL DRUMS
- SLIM LINE CHANNELIZER
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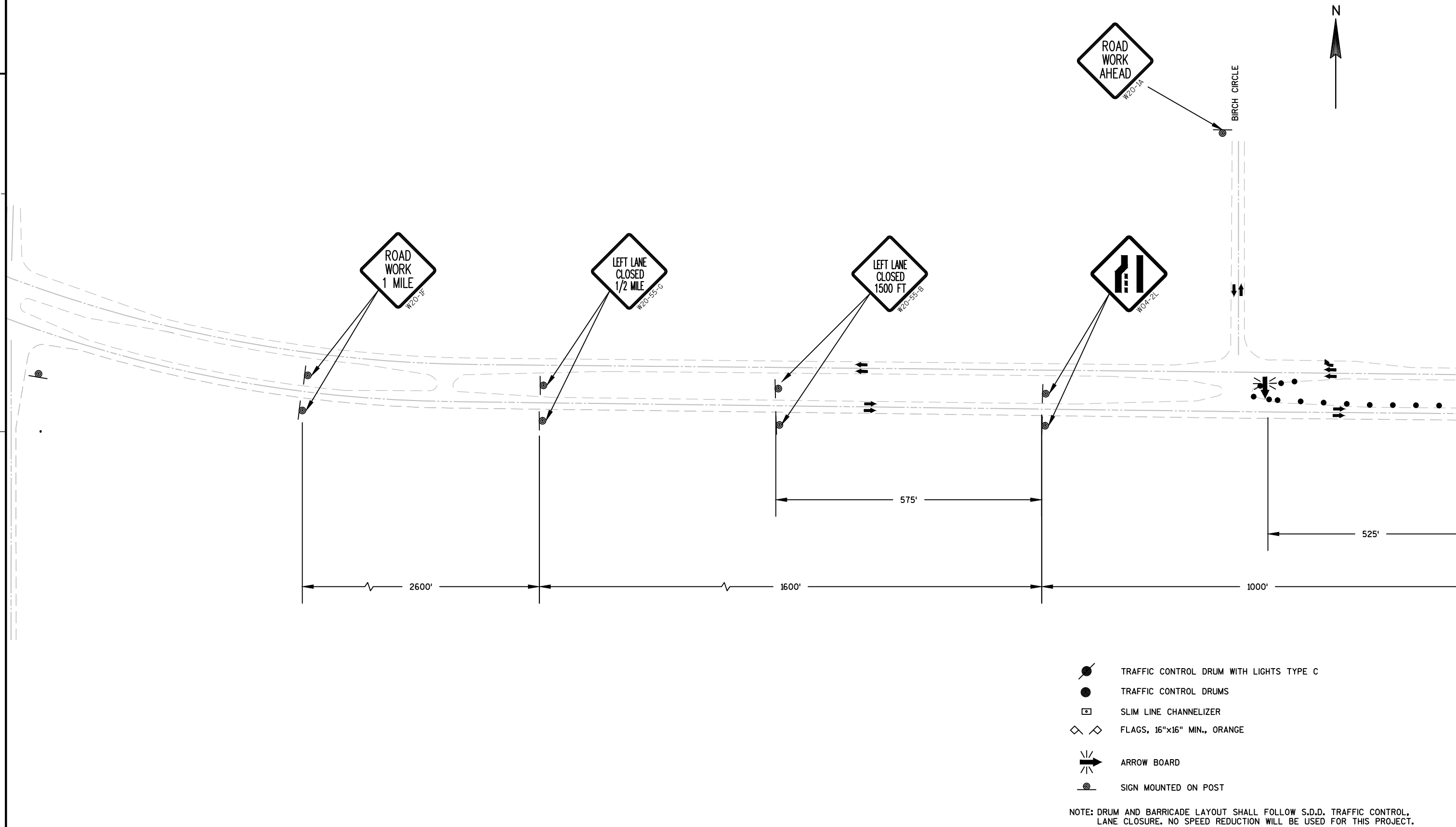


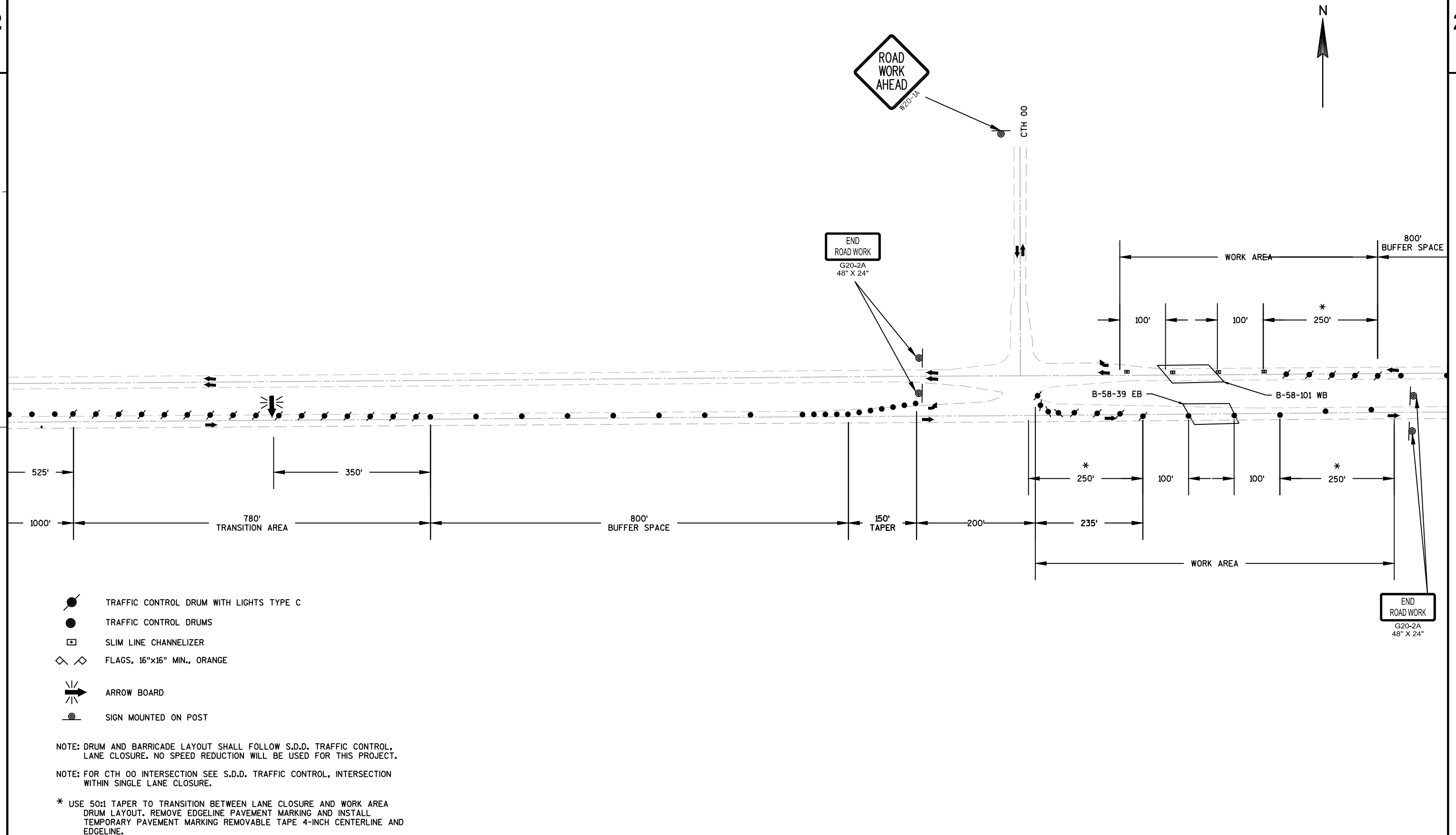


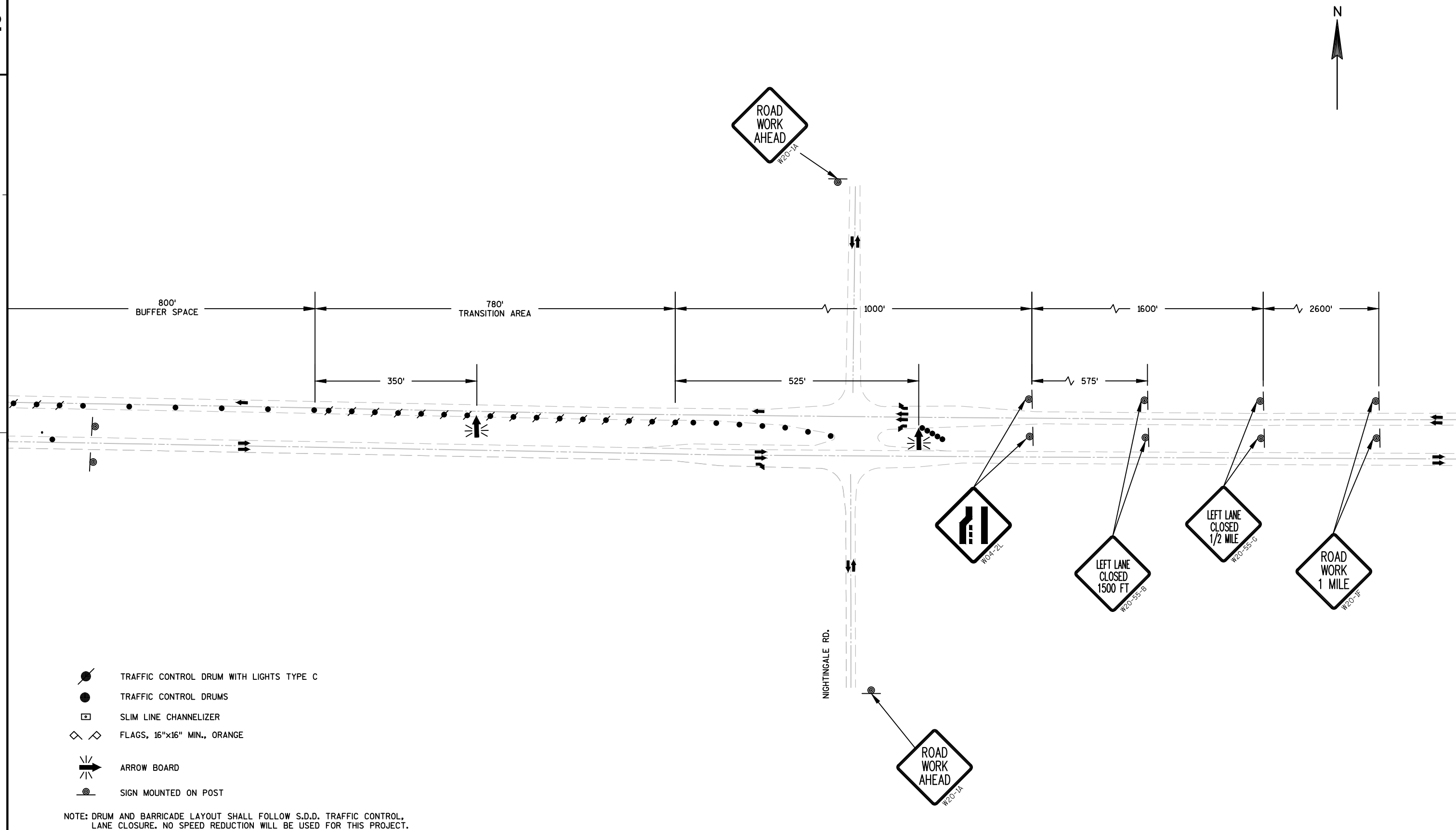


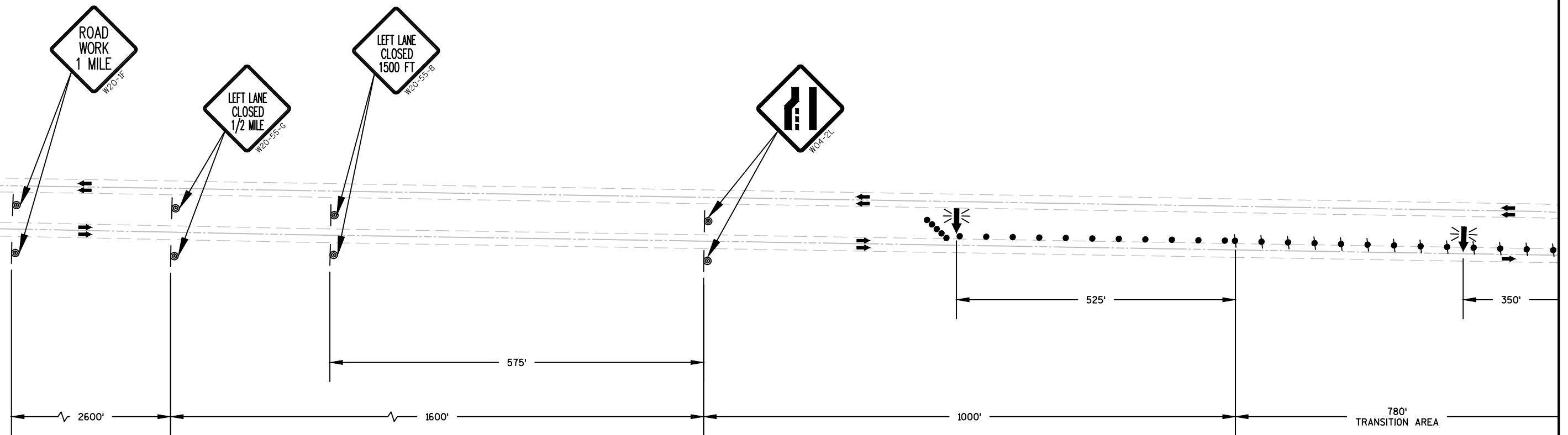
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


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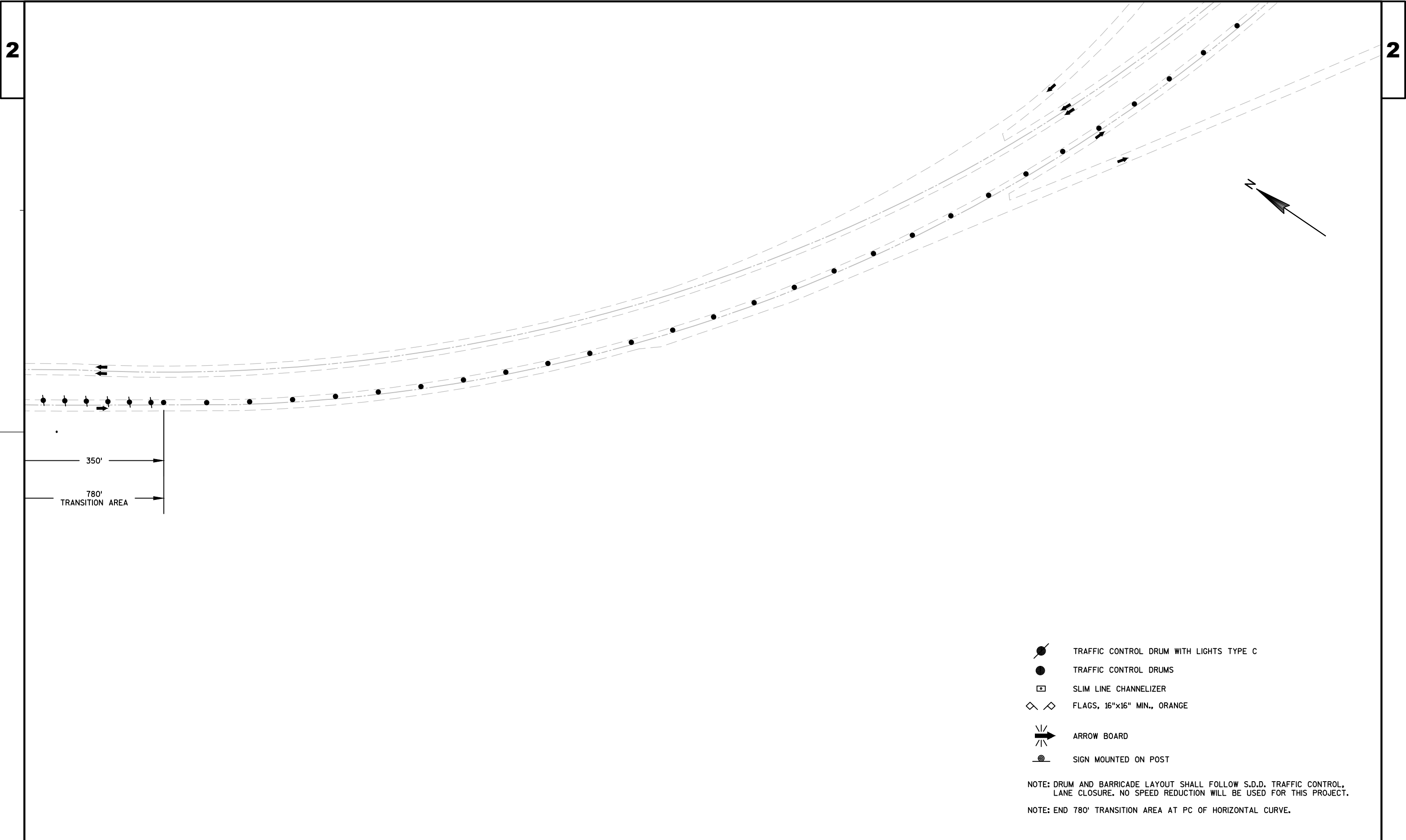




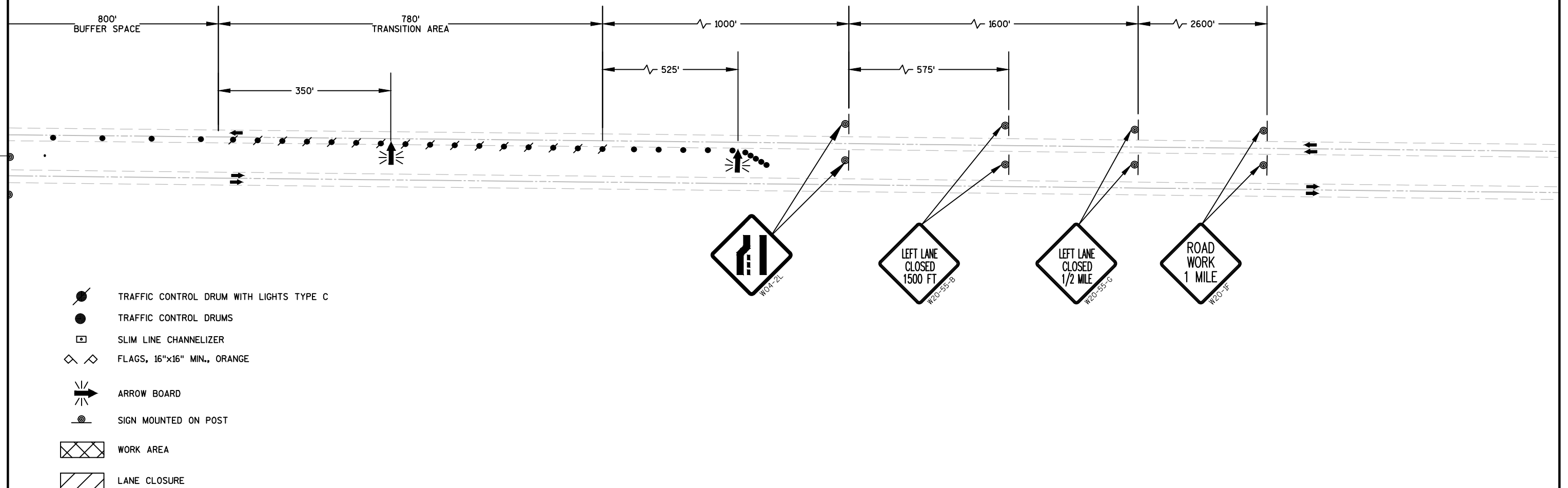


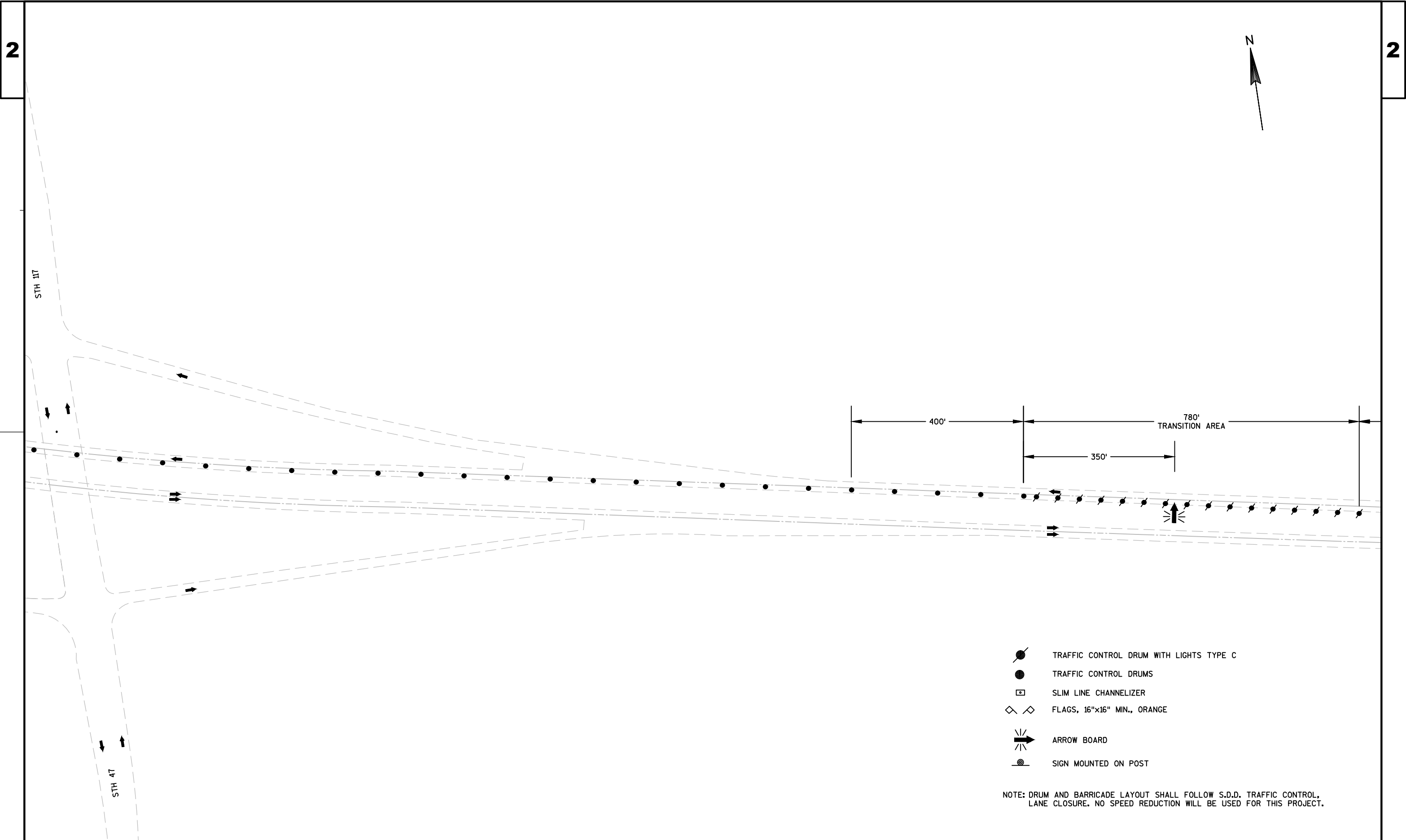
-  TRAFFIC CONTROL DRUM WITH LIGHTS TYPE C
-  TRAFFIC CONTROL DRUMS
-  SLIM LINE CHANNELIZER
-  FLAGS, 16"x16" MIN., ORANGE
-  ARROW BOARD
-  SIGN MOUNTED ON POST

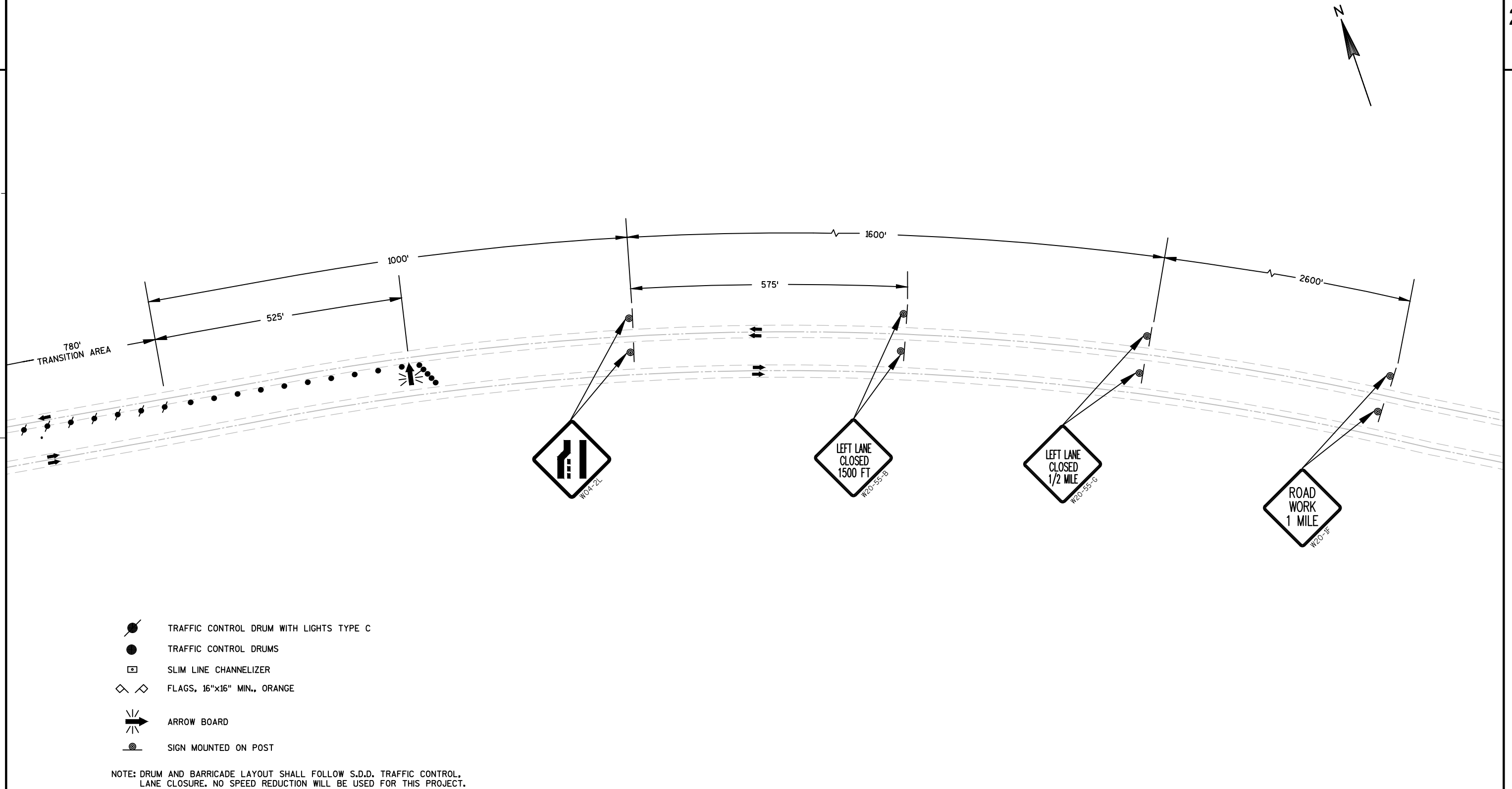
NOTE: DRUM AND BARRICADE LAYOUT SHALL FOLLOW S.D.D. TRAFFIC CONTROL, LANE CLOSURE. NO SPEED REDUCTION WILL BE USED FOR THIS PROJECT.

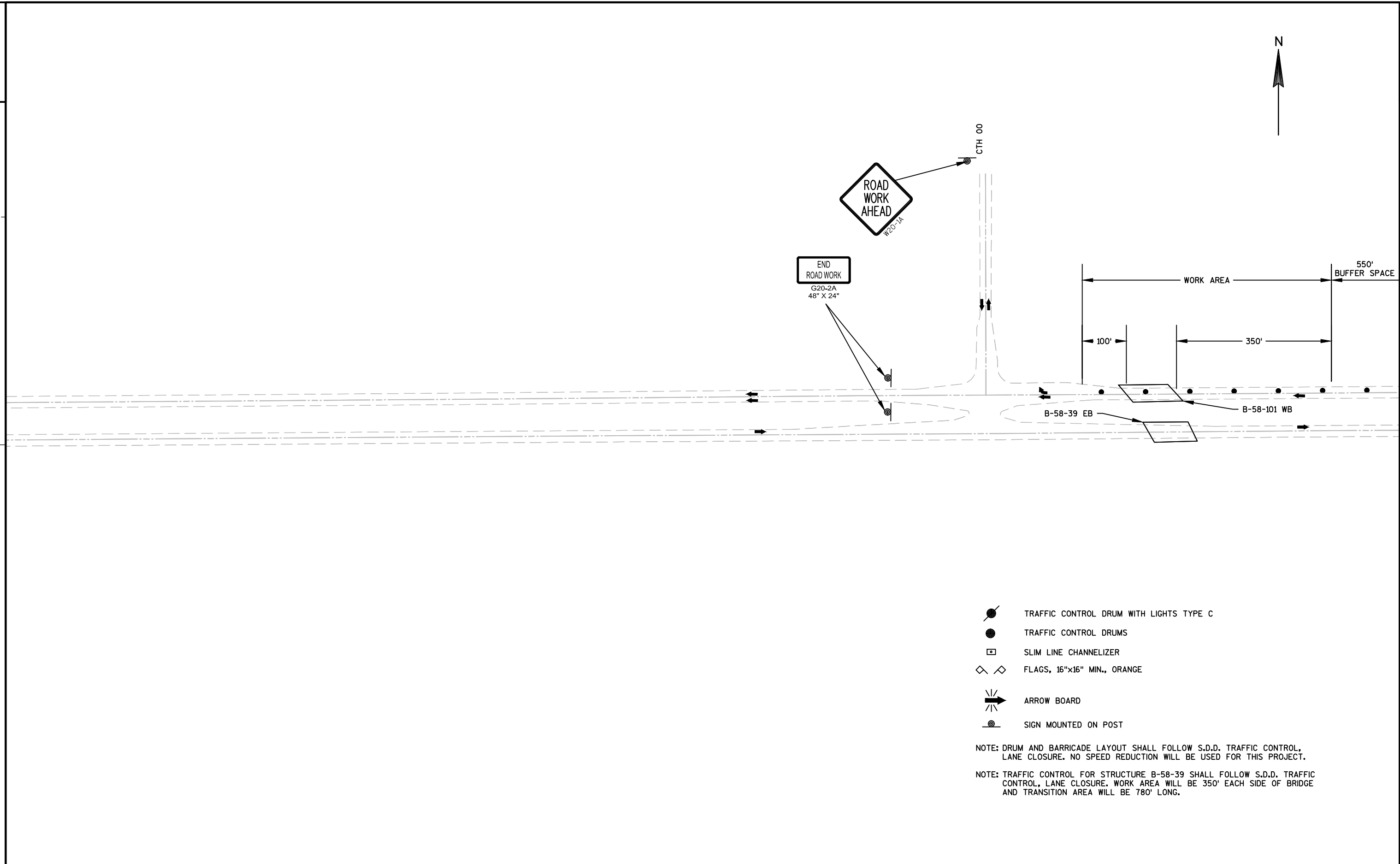








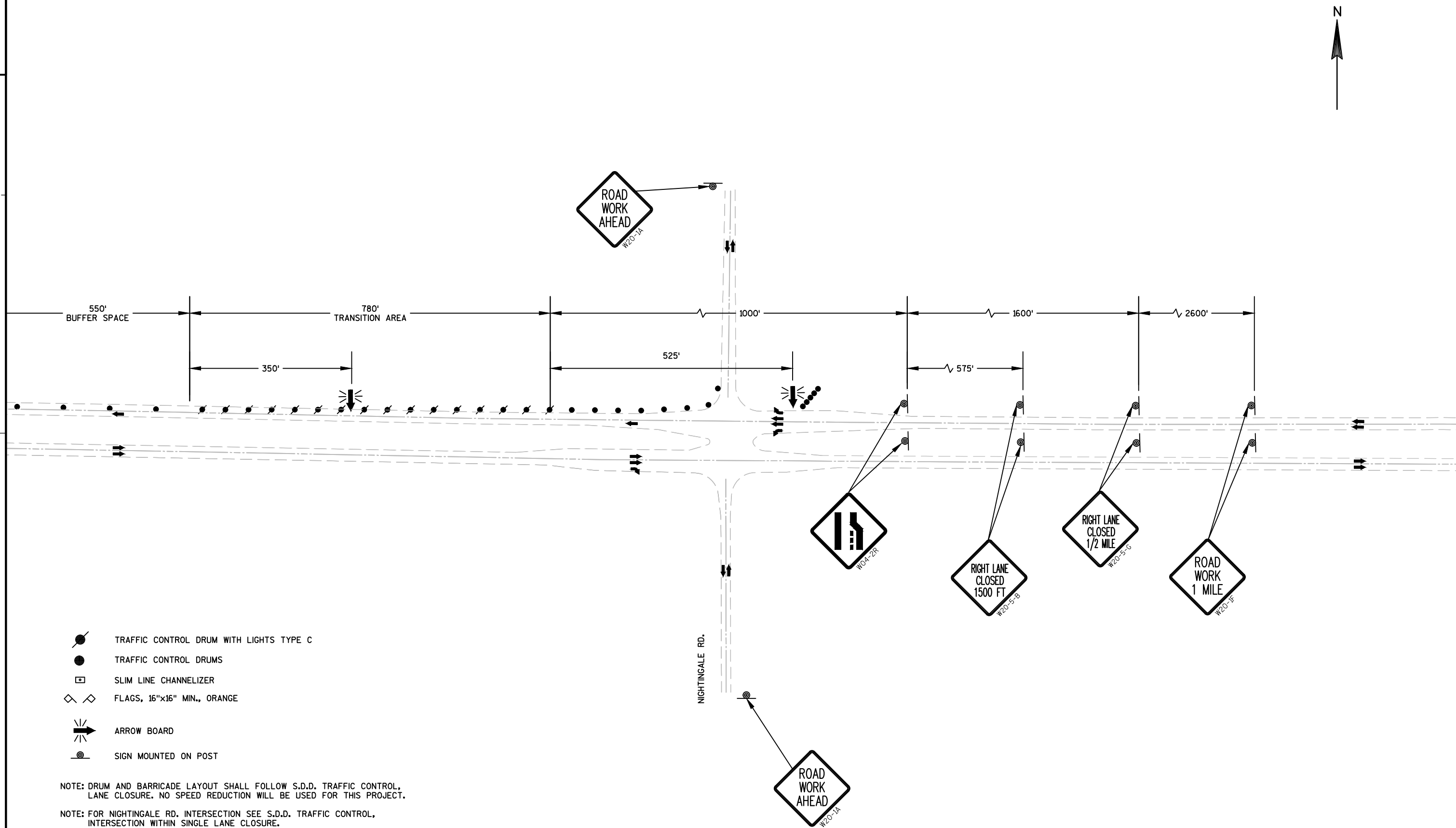


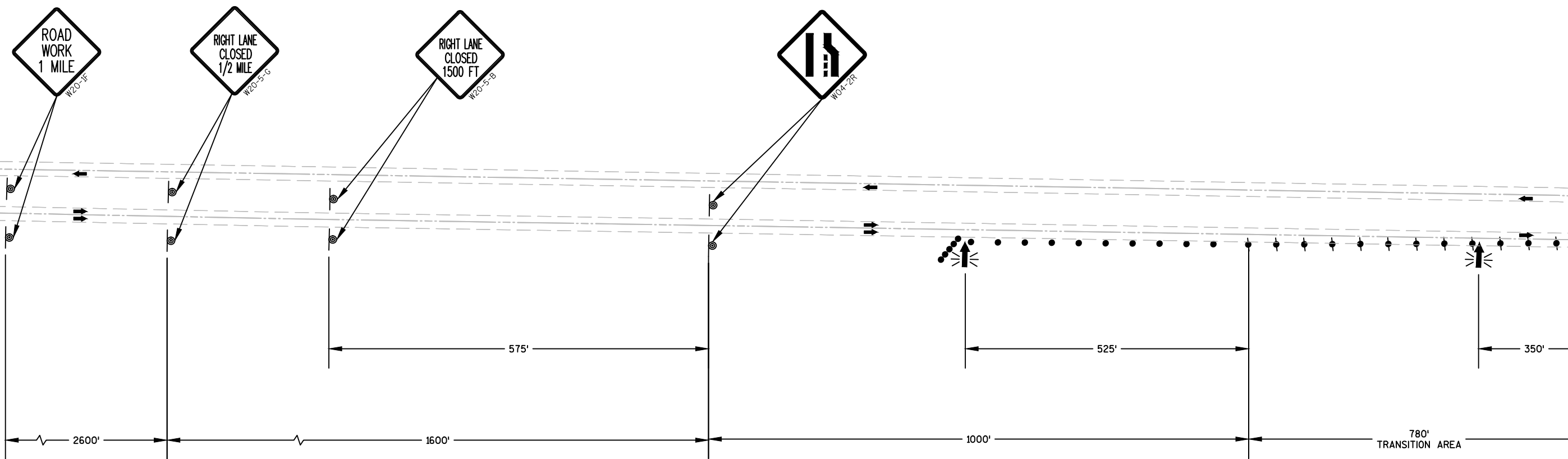








- TRAFFIC CONTROL DRUM WITH LIGHTS TYPE C
- TRAFFIC CONTROL DRUMS
- ◻ SLIM LINE CHANNELIZER
- ◇ ◇ FLAGS, 16"x16" MIN., ORANGE
- ➡ ARROW BOARD
- ⊙ SIGN MOUNTED ON POST

NOTE: DRUM AND BARRICADE LAYOUT SHALL FOLLOW S.D.D. TRAFFIC CONTROL, LANE CLOSURE. NO SPEED REDUCTION WILL BE USED FOR THIS PROJECT.

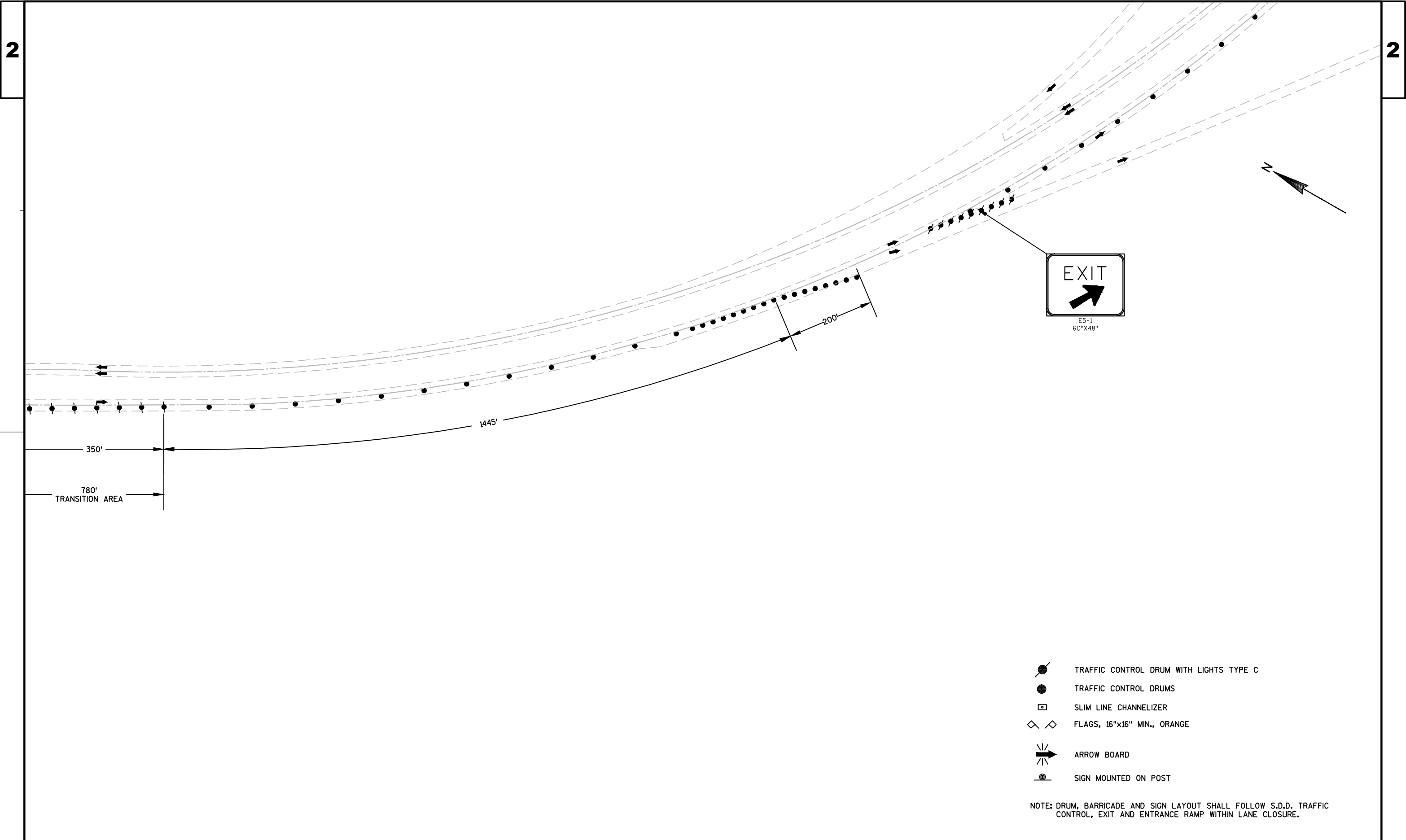
NOTE: TRAFFIC CONTROL FOR STRUCTURE B-58-39 SHALL FOLLOW S.D.D. TRAFFIC CONTROL, LANE CLOSURE. WORK AREA WILL BE 350' EACH SIDE OF BRIDGE AND TRANSITION AREA WILL BE 780' LONG.

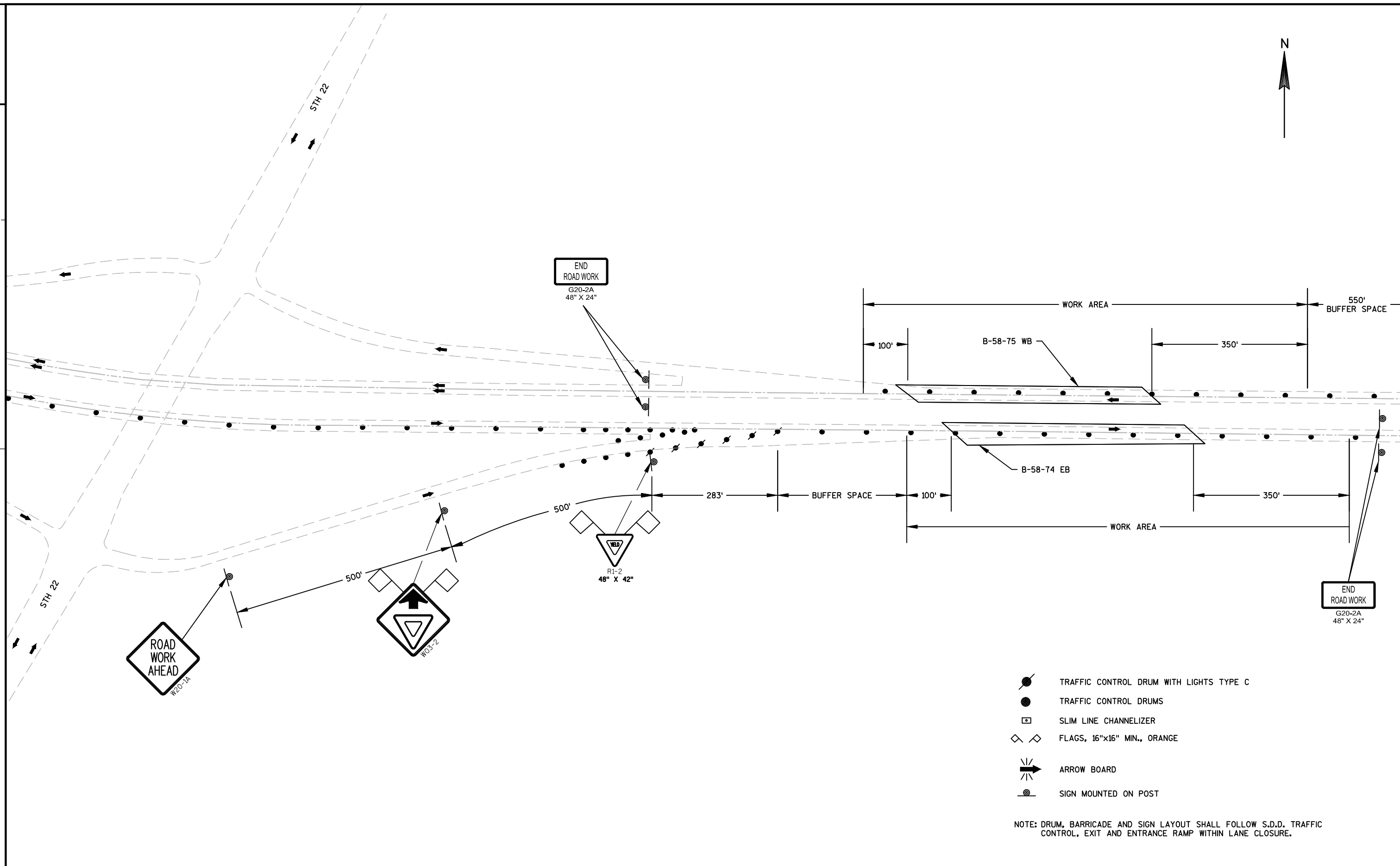


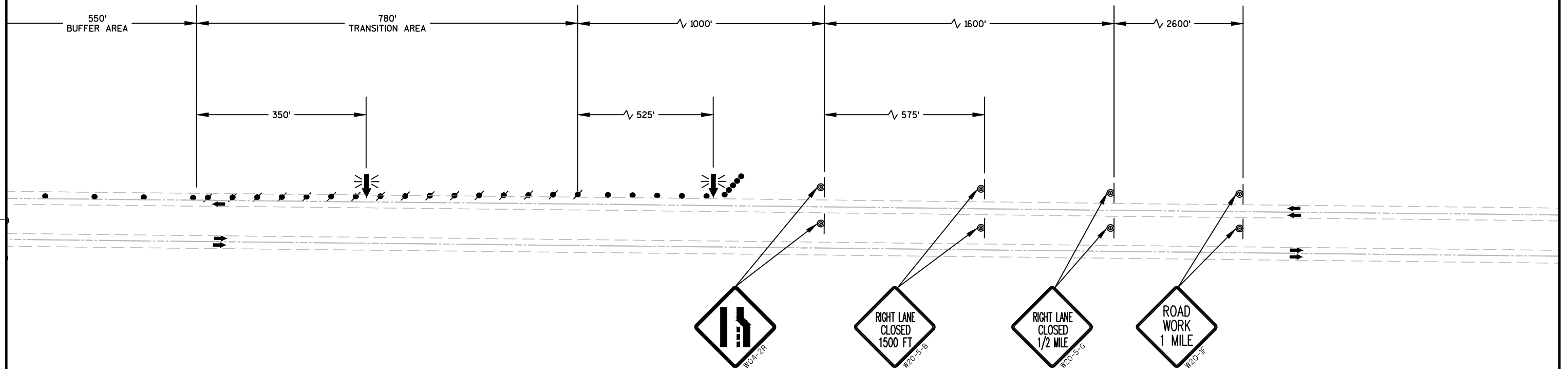


-  TRAFFIC CONTROL DRUM WITH LIGHTS TYPE C
-  TRAFFIC CONTROL DRUMS
-  SLIM LINE CHANNELIZER
-  FLAGS, 16"X16" MIN., ORANGE
-  ARROW BOARD
-  SIGN MOUNTED ON POST

NOTE: DRUM AND BARRICADE LAYOUT SHALL FOLLOW S.D.D. TRAFFIC CONTROL, LANE CLOSURE. NO SPEED REDUCTION WILL BE USED FOR THIS PROJECT.

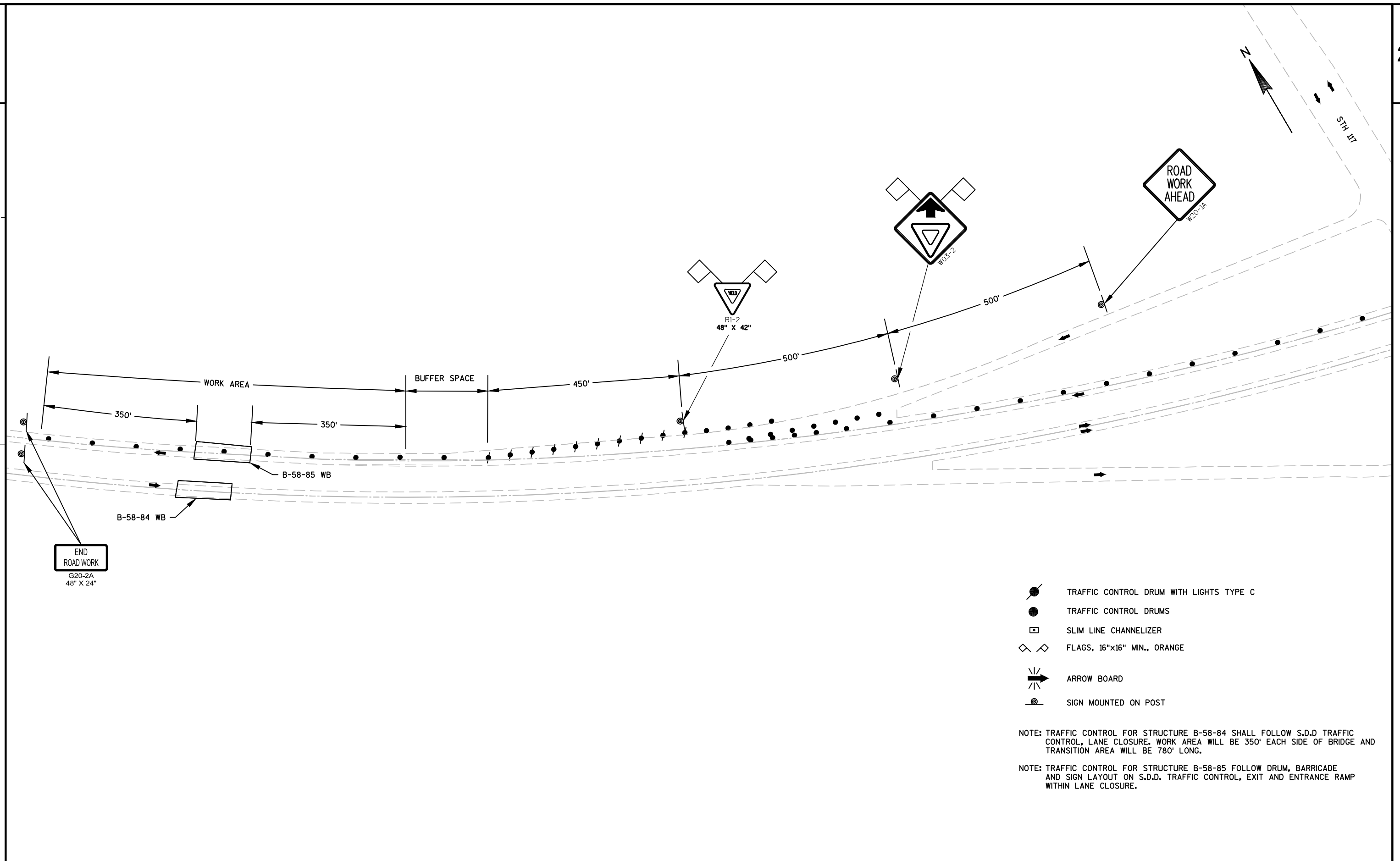


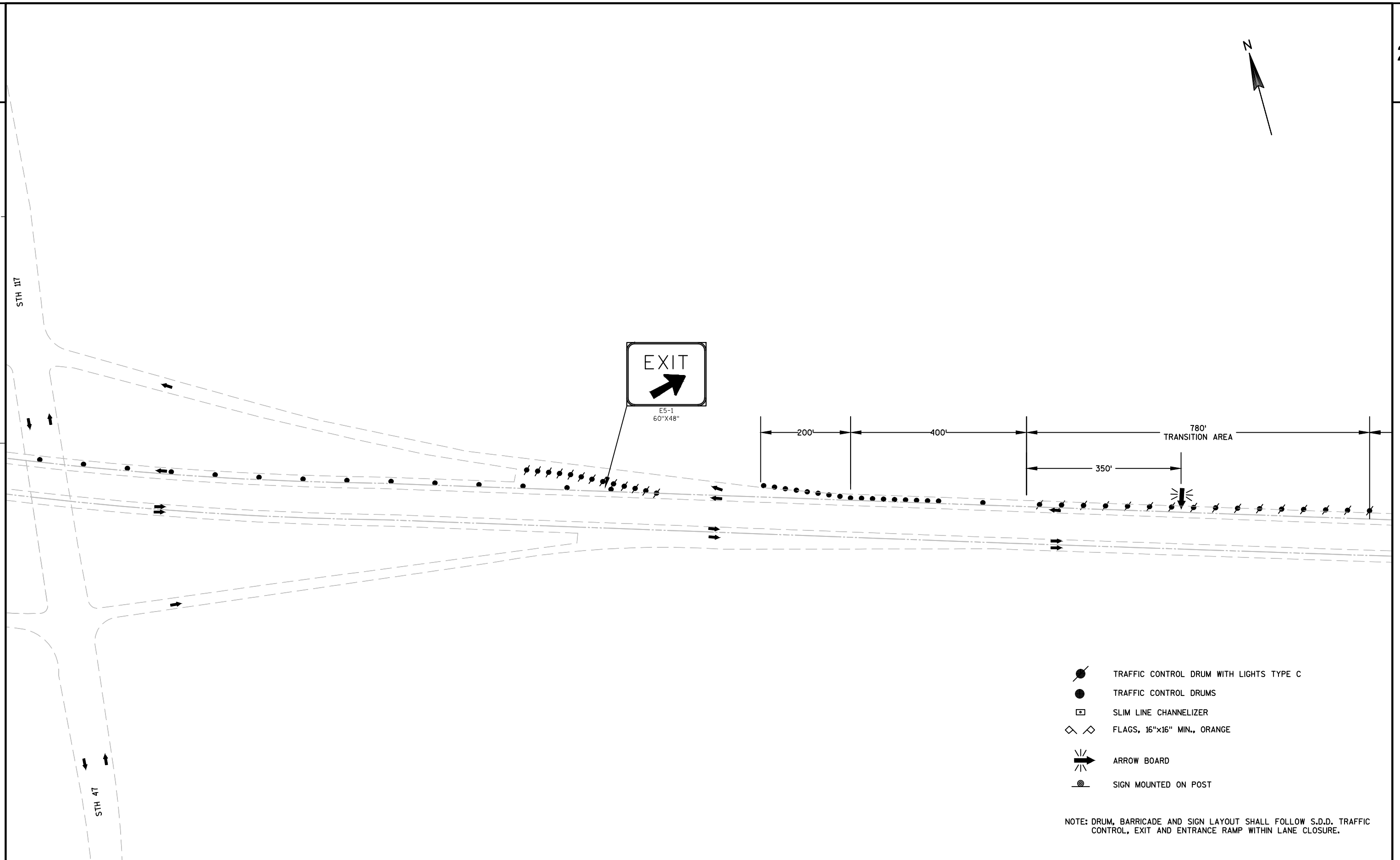


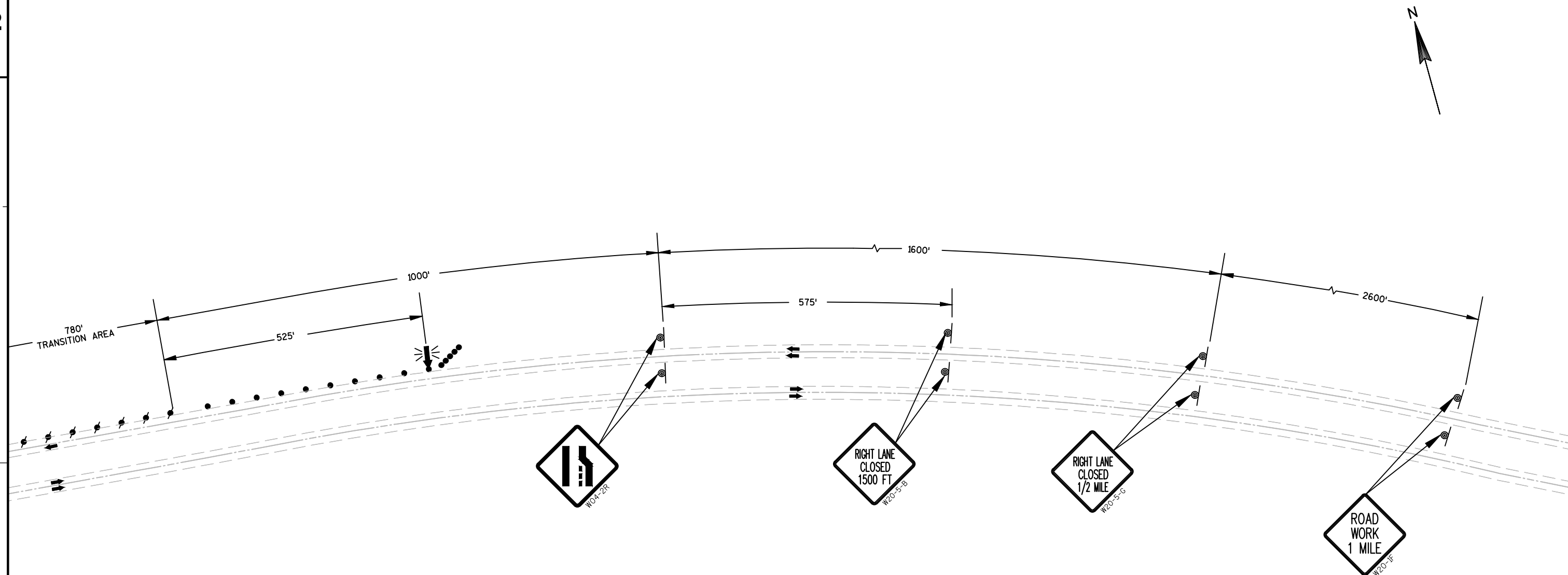


- TRAFFIC CONTROL DRUM WITH LIGHTS TYPE C
- TRAFFIC CONTROL DRUMS
- SLIM LINE CHANNELIZER
- FLAGS, 16"x16" MIN., ORANGE
- ARROW BOARD
- SIGN MOUNTED ON POST

NOTE: DRUM AND BARRICADE LAYOUT SHALL FOLLOW S.D.D. TRAFFIC CONTROL, LANE CLOSURE. NO SPEED REDUCTION WILL BE USED FOR THIS PROJECT.







- TRAFFIC CONTROL DRUM WITH LIGHTS TYPE C
- TRAFFIC CONTROL DRUMS
- SLIM LINE CHANNELIZER
- FLAGS, 16" x 16" MIN., ORANGE
- ARROW BOARD
- SIGN MOUNTED ON POST

NOTE: DRUM AND BARRICADE LAYOUT SHALL FOLLOW S.D.D. TRAFFIC CONTROL, LANE CLOSURE. NO SPEED REDUCTION WILL BE USED FOR THIS PROJECT.

Estimate Of Quantities

1058-24-62					
Line	Item	Item Description	Unit	Total	Qty
0010	204.0110	Removing Asphaltic Surface	SY	6,772.000	6,772.000
0020	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	126.000	126.000
0030	213.0100	Finishing Roadway (project) 01. 1058-24-62	EACH	1.000	1.000
0040	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,160.000	1,160.000
0050	455.0605	Tack Coat	GAL	350.000	350.000
0060	460.2000	Incentive Density HMA Pavement	DOL	1,280.000	1,280.000
0070	460.5223	HMA Pavement 3 LT 58-28 S	TON	1,200.000	1,200.000
0080	460.5224	HMA Pavement 4 LT 58-28 S	TON	800.000	800.000
0090	465.0400	Asphaltic Shoulder Rumble Strips	LF	9,225.000	9,225.000
0100	509.0301	Preparation Decks Type 1	SY	333.000	333.000
0110	509.0302	Preparation Decks Type 2	SY	168.000	168.000
0120	509.2000	Full-Depth Deck Repair	SY	38.000	38.000
0130	509.5100.S	Polymer Overlay	SY	8,573.000	8,573.000
0140	619.1000	Mobilization	EACH	1.000	1.000
0150	643.0200.S	Traffic Control Surveillance and Maintenance (project) 01. 1058-24-62	DAY	109.000	109.000
0160	643.0300	Traffic Control Drums	DAY	52,277.000	52,277.000
0170	643.0420	Traffic Control Barricades Type III	DAY	2,330.000	2,330.000
0180	643.0705	Traffic Control Warning Lights Type A	DAY	4,660.000	4,660.000
0190	643.0715	Traffic Control Warning Lights Type C	DAY	17,777.000	17,777.000
0200	643.0800	Traffic Control Arrow Boards	DAY	1,770.000	1,770.000
0210	643.0900	Traffic Control Signs	DAY	12,323.000	12,323.000
0220	643.1050	Traffic Control Signs PCMS	DAY	246.000	246.000
0230	646.0106	Pavement Marking Epoxy 4-Inch	LF	14,252.000	14,252.000
0240	646.0600	Removing Pavement Markings	LF	13,615.000	13,615.000
0250	649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF	56,443.000	56,443.000
0260	649.0600	Temporary Pavement Marking Removable Tape 6-Inch	LF	1,950.000	1,950.000
0270	649.0801	Temporary Pavement Marking Removable Tape 8-Inch	LF	3,200.000	3,200.000
0280	690.0150	Sawing Asphalt	LF	182.000	182.000
0290	SPV.0035	Special 01. Cement Slurry Mixture	CY	60.500	60.500
0300	SPV.0035	Special 02. Concrete Masonry Deck Patching	CY	36.000	36.000
0310	SPV.0060	Special 01. Concrete Pavement Shoulder Raising and Filling Void	EACH	25.000	25.000
0320	SPV.0090	Special 01. Sawing Pavement Deck Preparation Areas	LF	2,489.000	2,489.000

3

REMOVING ASPHALTIC SURFACE

204.0110				
STATION - STATION	LT/RT	SY	REMARKS	
1237+27 - 1240+65	RT	300	B-58-39	
1238+12 - 1240+50	LT	264	B-58-39	
1241+42 - 1244+29	LT	160	B-58-39	
1241+56 - 1244+94	RT	226	B-58-39	
SUBTOTAL=		950		
1238+66'A' - 1239+99'A'	RT	89	B-58-101	
1239+07'A' - 1239+80'A'	LT	69	B-58-101	
1240+95'A' - 1244+28'A'	LT	296	B-58-101	
1241+14'A' - 1242+68'A'	RT	103	B-58-101	
SUBTOTAL=		557		
1829+74 - 1832+98	RT	288	B-58-93	
1830+18 - 1832+89	LT	181	B-58-93	
1834+33 - 1837+08	LT	193	B-58-93	
1834+34 - 1837+64	RT	220	B-58-93	
SUBTOTAL=		882		
1370+21 - 1373+51	RT	293	B-58-70	
1370+64 - 1373+34	LT	180	B-58-70	
1374+43 - 1377+31	LT	160	B-58-70	
1374+53 - 1377+88	RT	223	B-58-70	
SUBTOTAL=		856		
1369+91'A' - 1373+02'A'	LT	208	B-58-71	
1371+73'A' - 1373+25'A'	RT	84	B-58-71	
1374+20'A' - 1377+58'A'	LT	300	B-58-71	
1374+30'A' - 1375+90'A'	RT	107	B-58-71	
SUBTOTAL=		699		
1453+57 - 1457+02	RT	307	B-58-74	
1453+62 - 1456+25	LT	175	B-58-74	
1462+57 - 1465+06	LT	139	B-58-74	
1462+79 - 1465+87	RT	205	B-58-74	
SUBTOTAL=		826		
1454+16'A' - 1455+86'A'	RT	94	B-58-75	
1454+61'A' - 1455+23'A'	LT	69	B-58-75	
1461+56'A' - 1464+54'A'	LT	265	B-58-75	
1461+96'A' - 1463+10'A'	RT	76	B-58-75	
SUBTOTAL=		504		
1878+58 - 1881+86	RT	292	B-58-84	
1879+18 - 1881+86	LT	179	B-58-84	
1883+11 - 1886+29	RT	186	B-58-84	
1883+12 - 1885+91	LT	155	B-58-84	
SUBTOTAL=		812		
1878+89'A' - 1882+07'A'	LT	212	B-58-85	
1880+52'A' - 1882+07'A'	RT	86	B-58-85	
1883+32'A' - 1886+62'A'	LT	293	B-58-85	
1883+32'A' - 1884+74'A'	RT	95	B-58-85	
SUBTOTAL=		686		
TOTAL=		6,772		

NOTE: ALL QUANTITIES ARE CATEGORY
0010 UNLESS OTHERWISE NOTED

PREPARE FOUNDATION
FOR ASPHALTIC SHOULDERS

211.0400				
STATION - STATION	LT/RT	STA.	REMARKS	
1237+27 - 1240+65	RT	4	B-58-39	
1238+12 - 1240+50	LT	3	B-58-39	
1241+42 - 1244+29	LT	4	B-58-39	
1241+56 - 1244+94	RT	4	B-58-39	
SUBTOTAL=		15		
1238+66'A' - 1239+99'A'	RT	2	B-58-101	
1239+07'A' - 1239+80'A'	LT	1	B-58-101	
1240+95'A' - 1244+28'A'	LT	5	B-58-101	
1241+14'A' - 1242+68'A'	RT	2	B-58-101	
SUBTOTAL=		10		
1829+74 - 1832+98	RT	4	B-58-93	
1830+18 - 1832+89	LT	3	B-58-93	
1834+33 - 1837+08	LT	4	B-58-93	
1834+34 - 1837+64	RT	4	B-58-93	
SUBTOTAL=		15		
1370+21 - 1373+51	RT	4	B-58-70	
1370+64 - 1373+34	LT	4	B-58-70	
1374+43 - 1377+31	LT	4	B-58-70	
1374+53 - 1377+88	RT	4	B-58-70	
SUBTOTAL=		16		
1369+91'A' - 1373+02'A'	LT	5	B-58-71	
1371+73'A' - 1373+25'A'	RT	3	B-58-71	
1374+20'A' - 1377+58'A'	LT	4	B-58-71	
1374+30'A' - 1375+90'A'	RT	2	B-58-71	
SUBTOTAL=		14		
1453+57 - 1457+02	RT	5	B-58-74	
1453+62 - 1456+25	LT	4	B-58-74	
1462+57 - 1465+06	LT	4	B-58-74	
1462+79 - 1465+87	RT	4	B-58-74	
SUBTOTAL=		17		
1454+16'A' - 1455+86'A'	RT	2	B-58-75	
1454+61'A' - 1455+23'A'	LT	2	B-58-75	
1461+56'A' - 1464+54'A'	LT	4	B-58-75	
1461+96'A' - 1463+10'A'	RT	3	B-58-75	
SUBTOTAL=		11		
1878+58 - 1881+86	RT	4	B-58-84	
1879+18 - 1881+86	LT	3	B-58-84	
1883+11 - 1886+29	RT	4	B-58-84	
1883+12 - 1885+91	LT	3	B-58-84	
SUBTOTAL=		14		
1878+89'A' - 1882+07'A'	LT	5	B-58-85	
1880+52'A' - 1882+07'A'	RT	3	B-58-85	
1883+32'A' - 1886+62'A'	LT	4	B-58-85	
1883+32'A' - 1884+74'A'	RT	2	B-58-85	
SUBTOTAL=		14		
TOTAL=		126		

BASE AGGREGATE DENSE 3/4-INCH

305.0110				
STATION - STATION	LT/RT	TON	REMARKS	
1237+27 - 1240+65	RT	51	B-58-39 STAGE 2	
1238+12 - 1240+50	LT	36	B-58-39 STAGE 1	
1241+42 - 1244+29	LT	20	B-58-39 STAGE 1	
1241+56 - 1244+94	RT	34	B-58-39 STAGE 2	
SUBTOTAL=		141		
1238+66'A' - 1239+99'A'	RT	9	B-58-101 STAGE 1	
1239+07'A' - 1239+80'A'	LT	7	B-58-101 STAGE 2	
1240+95'A' - 1244+28'A'	LT	50	B-58-101 STAGE 2	
1241+14'A' - 1242+68'A'	RT	23	B-58-101 STAGE 1	
SUBTOTAL=		89		
1829+74 - 1832+98	RT	49	B-58-93 STAGE 2	
1830+18 - 1832+89	LT	41	B-58-93 STAGE 1	
1834+33 - 1837+08	LT	19	B-58-93 STAGE 1	
1834+34 - 1837+64	RT	34	B-58-93 STAGE2	
SUBTOTAL=		143		
1370+21 - 1373+51	RT	50	B-58-70 STAGE 2	
1370+64 - 1373+34	LT	41	B-58-70 STAGE 1	
1374+43 - 1377+31	LT	20	B-58-70 STAGE1	
1374+53 - 1377+88	RT	34	B-58-70 STAGE2	
SUBTOTAL=		145		
1369+91'A' - 1373+02'A'	LT	32	B-58-71 STAGE 2	
1371+73'A' - 1373+25'A'	RT	11	B-58-71 STAGE 1	
1374+20'A' - 1377+58'A'	LT	51	B-58-71 STAGE 2	
1374+30'A' - 1375+90'A'	RT	24	B-58-71 STAGE 1	
SUBTOTAL=		118		
1453+57 - 1457+02	RT	52	B-58-74 STAGE 2	
1453+62 - 1456+25	LT	40	B-58-74 STAGE 1	
1462+57 - 1465+06	LT	18	B-58-74 STAGE 1	
1462+79 - 1465+87	RT	31	B-58-74 STAGE 2	
SUBTOTAL=		141		
1454+16'A' - 1455+86'A'	RT	12	B-58-75 STAGE 1	
1454+61'A' - 1455+23'A'	LT	6	B-58-75 STAGE 2	
1461+56'A' - 1464+54'A'	LT	45	B-58-75 STAGE 2	
1461+96'A' - 1463+10'A'	RT	17	B-58-75 STAGE 1	
SUBTOTAL=		80		
1878+58 - 1881+86	RT	50	B-58-84 STAGE 2	
1879+18 - 1881+86	LT	40	B-58-84 STAGE 1	
1883+11 - 1886+29	RT	28	B-58-84 STAGE 2	
1883+12 - 1885+91	LT	20	B-58-84 STAGE 1	
SUBTOTAL=		138		
1878+89'A' - 1882+07'A'	LT	32	B-58-85 STAGE 2	
1880+52'A' - 1882+07'A'	RT	11	B-58-85 STAGE 1	
1883+32'A' - 1886+62'A'	LT	50	B-58-85 STAGE 1	
1883+32'A' - 1884+74'A'	RT	21	B-58-85 STAGE 2	
SUBTOTAL=		114		
UNDISTRIBUTED		51		
TOTAL=		1160		

3

ASPHALTIC PAVEMENT ITEMS

STATION - STATION	LT/RT	455.0605	460.5223	460.5224	REMARKS
		TACK	PAVEMENT	PAVEMENT	
		COAT	3 LT 58-28 S	4 LT 58-28 S	
		GAL	TON	TON	
1237+27 - 1240+65	RT	15	51.6	34.4	B-58-39 STAGE 2
1238+12 - 1240+50	LT	13	45.6	30.4	B-58-39 STAGE 1
1241+42 - 1244+29	LT	8	27.6	18.4	B-58-39 STAGE 1
1241+56 - 1244+94	RT	11	39	26	B-58-39 STAGE 2
SUBTOTAL=		47	163.8	109.2	
1238+66'A' - 1239+99'A'	RT	4	15	10	B-58-101 STAGE 1
1239+07'A' - 1239+80'A'	LT	3	12	8	B-58-101 STAGE 2
1240+95'A' - 1244+28'A'	LT	15	51	34	B-58-101 STAGE 2
1241+14'A' - 1242+68'A'	RT	5	18	12	B-58-101 STAGE 1
SUBTOTAL=		27	96	64	
1829+74 - 1832+98	RT	14	49.8	33.2	B-58-93 STAGE 2
1830+18 - 1832+89	LT	9	31.2	20.8	B-58-93 STAGE 1
1834+33 - 1837+08	LT	10	33	22	B-58-93 STAGE 1
1834+34 - 1837+64	RT	11	37.8	25.2	B-58-93 STAGE2
SUBTOTAL=		44	151.8	101.2	
1370+21 - 1373+51	RT	15	50.4	33.6	B-58-70 STAGE 2
1370+64 - 1373+34	LT	9	31.2	20.8	B-58-70 STAGE 1
1374+43 - 1377+31	LT	8	27.6	18.4	B-58-70 STAGE1
1374+53 - 1377+88	RT	11	38.4	25.6	B-58-70 STAGE2
SUBTOTAL=		43	147.6	98.4	
1369+91'A' - 1373+02'A'	LT	10	36	24	B-58-71 STAGE 2
1371+73'A' - 1373+25'A'	RT	4	14.4	9.6	B-58-71 STAGE 1
1374+20'A' - 1377+58'A'	LT	15	51.6	34.4	B-58-71 STAGE 2
1374+30'A' - 1375+90'A'	RT	5	18.6	12.4	B-58-71 STAGE 1
SUBTOTAL=		34	120.6	80.4	
1453+57 - 1457+02	RT	15	52.8	35.2	B-58-74 STAGE 2
1453+62 - 1456+25	LT	9	30	20	B-58-74 STAGE 1
1462+57 - 1465+06	LT	7	24	16	B-58-74 STAGE 1
1462+79 - 1465+87	RT	10	35.4	23.6	B-58-74 STAGE 2
SUBTOTAL=		41	142.2	94.8	
1454+16'A' - 1455+86'A'	RT	5	16.2	10.8	B-58-75 STAGE 1
1454+61'A' - 1455+23'A'	LT	3	12	8	B-58-75 STAGE 2
1461+56'A' - 1464+54'A'	LT	13	45.6	30.4	B-58-75 STAGE 2
1461+96'A' - 1463+10'A'	RT	4	13.2	8.8	B-58-75 STAGE 1
SUBTOTAL=		25	87	58	
1878+58 - 1881+86	RT	15	50.4	33.6	B-58-84 STAGE 2
1879+18 - 1881+86	LT	9	30.6	20.4	B-58-84 STAGE 1
1883+11 - 1886+29	RT	9	32.4	21.6	B-58-84 STAGE 2
1883+12 - 1885+91	LT	8	27	18	B-58-84 STAGE 1
SUBTOTAL=		41	140.4	93.6	
1878+89'A' - 1882+07'A'	LT	11	36.6	24.4	B-58-85 STAGE 2
1880+52'A' - 1882+07'A'	RT	4	15	10	B-58-85 STAGE 1
1883+32'A' - 1886+62'A'	LT	15	50.4	33.6	B-58-85 STAGE 1
1883+32'A' - 1884+74'A'	RT	5	16.2	10.8	B-58-85 STAGE 2
SUBTOTAL=		35	118.2	78.8	
UNDISTRIBUTED		13	32.4	21.6	
TOTAL=		350	1,200.0	800.0	

NOTE: ALL QUANTITIES ARE CATEGORY
0010 UNLESS OTHERWISE NOTED

ASPHALTIC SURFACE RUMBLE STRIP

STATION - STATION	LT/RT	465.0400	REMARKS
		LF	
1237+27 - 1240+65	RT	338	B-58-39
1238+12 - 1240+50	LT	238	B-58-39
1241+42 - 1244+29	LT	287	B-58-39
1241+56 - 1244+94	RT	338	B-58-39
SUBTOTAL=		1,201	
1238+66'A' - 1239+99'A'	RT	133	B-58-101
1239+07'A' - 1239+80'A'	LT	73	B-58-101
1240+95'A' - 1244+28'A'	LT	333	B-58-101
1241+14'A' - 1242+68'A'	RT	154	B-58-101
SUBTOTAL=		693	
1829+74 - 1832+98	RT	324	B-58-93
1830+18 - 1832+89	LT	270	B-58-93
1834+33 - 1837+08	LT	275	B-58-93
1834+34 - 1837+64	RT	330	B-58-93
SUBTOTAL=		1,199	
1370+21 - 1373+51	RT	330	B-58-70
1370+64 - 1373+34	LT	271	B-58-70
1374+43 - 1377+31	LT	288	B-58-70
1374+53 - 1377+88	RT	335	B-58-70
SUBTOTAL=		1,224	
1369+91'A' - 1373+02'A'	LT	311	B-58-71
1371+73'A' - 1373+25'A'	RT	152	B-58-71
1374+20'A' - 1377+58'A'	LT	338	B-58-71
1374+30'A' - 1375+90'A'	RT	160	B-58-71
SUBTOTAL=		961	
1453+57 - 1457+02	RT	345	B-58-74
1453+62 - 1456+25	LT	263	B-58-74
1462+57 - 1465+06	LT	249	B-58-74
1462+79 - 1465+87	RT	308	B-58-74
SUBTOTAL=		1,165	
1454+16'A' - 1455+86'A'	RT	170	B-58-75
1454+61'A' - 1455+23'A'	LT	62	B-58-75
1461+56'A' - 1464+54'A'	LT	298	B-58-75
1461+96'A' - 1463+10'A'	RT	114	B-58-75
SUBTOTAL=		644	
1878+58 - 1881+86	RT	328	B-58-84
1879+18 - 1881+86	LT	268	B-58-84
1883+11 - 1886+29	RT	318	B-58-84
1883+12 - 1885+91	LT	279	B-58-84
SUBTOTAL=		1,193	
1878+89'A' - 1882+07'A'	LT	318	B-58-85
1880+52'A' - 1882+07'A'	RT	155	B-58-85
1883+32'A' - 1886+62'A'	LT	330	B-58-85
1883+32'A' - 1884+74'A'	RT	142	B-58-85
SUBTOTAL=		945	
TOTAL=		9,225	

3

TRAFFIC CONTROL ITEMS										*								
643.0200 SURVEILLANCE AND MAINTENANCE				643.0300	643.0420	643.0705	643.0715	643.0800	643.0900	16"x16" MIN.	643.1050	646.0600	649.0400		649.0600	649.0801		
(1058-24-62)				DRUMS	BARRICADES	LIGHTS	LIGHTS	ARROW	SIGNS	ORANGE	SIGNS	PAVEMENT	TEMPORARY PAVEMENT MARKING		PAVEMENT MARKING	REMOVABLE TAPE		
STAGE	LOCATION	NUMBER OF DAYS	DAYS	DAYS	TYPE III	TYPE A	TYPE C	BOARDS	SIGNS	EACH	PCMS	MARKINGS	WHITE	YELLOW	BLACK	WHITE		
												LF	LF	LF	LF	LF		
PRIOR TO CONSTRUCTION			14	14	--	--	--	--	--	--	--	28	--	--	--	--	--	
PRIOR TO CONSTRUCTION SUBTOTAL				14	--	--	--	--	--	--	--	28	--	--	--	--	--	
1	PROJECT	--	30	--	--	--	--	--	--	--	60	--	--	--	--	--		
	8-58-39	30	--	1770	90	180	600	60	450	--	--	650	650	1,430	200	--		
	B-58-101	30	--	1170	60	120	480	60	420	--	--	375	375	1,155	200	--		
	8-58-93	30	--	1410	60	120	480	60	360	--	--	690	690	1,470	200	--		
	8-58-70	30	--	1410	60	120	480	60	360	--	--	670	670	1,450	200	--		
	8-58-71	30	--	1350	60	120	480	60	360	--	--	420	420	1,200	200	--		
	8-58-74	28	--	2520	112	224	448	56	476	4	--	1,150	1,150	1,930	200	--		
	8-58-75	28	--	1344	56	112	448	56	336	--	--	800	800	1,580	200	--		
	8-58-84	28	--	1316	56	112	448	56	336	--	--	670	670	1,450	200	--		
	8-58-85	28	--	2380	112	224	448	56	476	4	--	470	470	1,250	200	--		
STAGE 1 SUBTOTAL			30	14,670	666	1,332	4,312	524	3,574		60	5,895	5,895	12,915	1,800	--		
2	PROJECT	--	43	--	--	--	--	--	--	--	86	--	--	--	--	--		
	8-58-39	43	--	2193	86	172	860	86	602	--	--	800	1,580	800	--	--		
	B-58-101	43	--	1849	86	172	774	86	645	--	--	550	1,330	550	--	--		
	8-58-93	43	--	2107	86	172	860	86	516	--	--	790	1,570	790	--	--		
	8-58-70	43	--	2107	86	172	774	86	516	--	--	770	1,550	770	--	--		
	8-58-71	43	--	2107	86	172	860	86	516	--	--	770	1,550	770	--	--		
	8-58-74	31	--	3844	186	372	1116	62	651	4	--	1,250	2,513	1,250	75	600		
	8-58-75	31	--	1612	62	124	558	62	372	--	--	1,250	2,030	1,250	--	--		
	8-58-84	31	--	1519	62	124	620	62	372	--	--	770	1,550	770	--	--		
	8-58-85	31	--	4092	186	372	1271	62	651	4	--	770	2,200	770	75	1,000		
STAGE 2 SUBTOTAL			43	21,430	926	1,852	7,693	678	4,841		86	7,720	15,873	7,720	150	1,600		
3	PROJECT	--	18	--	--	--	--	--	--	--	36	--	--	--	--	--		
	8-58-39	18	--	1044	54	108	432	36	270	--	--	--	--	780	--	--		
	B-58-101	18	--	756	36	72	378	36	252	--	--	--	--	780	--	--		
	8-58-93	18	--	918	36	72	378	36	216	--	--	--	--	780	--	--		
	8-58-70	18	--	918	36	72	378	36	216	--	--	--	--	780	--	--		
	8-58-71	18	--	918	36	72	378	36	216	--	--	--	--	780	--	--		
	8-58-74	14	--	1302	56	112	294	28	238	4	--	--	--	780	--	--		
	8-58-75	14	--	728	28	56	294	28	168	--	--	--	--	780	--	--		
	8-58-84	14	--	714	28	56	294	28	168	--	--	--	--	780	--	--		
	8-58-85	14	--	1246	56	112	294	28	238	4	--	--	--	780	--	--		
STAGE 3 SUBTOTAL			18	8,544	366	732	3,120	292	1,982		36	--	--	7,020	--	--		
4	PROJECT	--	18	--	--	--	--	--	--	--	36	--	--	--	--	--		
	8-58-39	18	--	49	36	72	288	36	216	--	--	--	780	--	--	--		
	B-58-101	18	--	738	36	72	288	36	270	--	--	--	780	--	--	--		
	8-58-93	18	--	882	36	72	288	36	216	--	--	--	780	--	--	--		
	8-58-70	18	--	882	36	72	288	36	216	--	--	--	780	--	--	--		
	8-58-71	18	--	882	36	72	288	36	216	--	--	--	780	--	--	--		
	8-58-74	12	--	1500	72	144	360	24	252	4	--	--	780	--	--	600		
	8-58-75	12	--	588	24	48	192	24	144	--	--	--	780	--	--	--		
	8-58-84	12	--	588	24	48	192	24	144	--	--	--	780	--	--	--		
	8-58-85	12	--	1524	72	144	468	24	252	4	--	--	780	--	--	1,000		
STAGE 4 SUBTOTAL			18	7,633	372	744	2,652	276	1,926		36	--	7,020	--	--	1,600		
ITEM TOTAL			109	52,277	2,330	4,660	17,777	1,770	12,323		246	13,615	28,788	27,655	1,950	3,200		
													56,443					

NOTE: TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 6-INCH BLACK IS FOR COVERING CENTERLINE SKIPS AT TAPERS AND RAMPS.

*FOR INFORMATIONAL PURPOSES ONLY

NOTE: ALL QUANTITIES ARE CATEGORY
0010 UNLESS OTHERWISE NOTED

PROJECT NO:1058-24-62

HWY:STH 29

COUNTY:SHAWANO

MISCELLANEOUS QUANTITIES - 3

SHEET

E

PAVEMENT MARKING EPOXY 4-INCH

STAGE	LOCATION	646.0106	
		WHITE LF	YELLOW LF
3	B-58-39	66	650
	B-58-101	66	375
	B-58-93	71	690
	B-58-70	66	670
	B-58-71	66	420
	B-58-74	84	1,150
	B-58-75	84	800
	B-58-84	67	670
	B-58-85	67	470
	STAGE 3 SUBTOTAL	637	5,895
4	B-58-39	800	---
	B-58-101	550	---
	B-58-93	790	---
	B-58-70	770	---
	B-58-71	770	---
	B-58-74	1,250	---
	B-58-75	1,250	---
	B-58-84	770	---
	B-58-85	770	---
	STAGE 4 SUBTOTAL	7,720	---
TOTAL		8,357	5,895
		14,252	

NOTE: ALL QUANTITIES ARE CATEGORY
0010 UNLESS OTHERWISE NOTED

SAWING ASPHALT

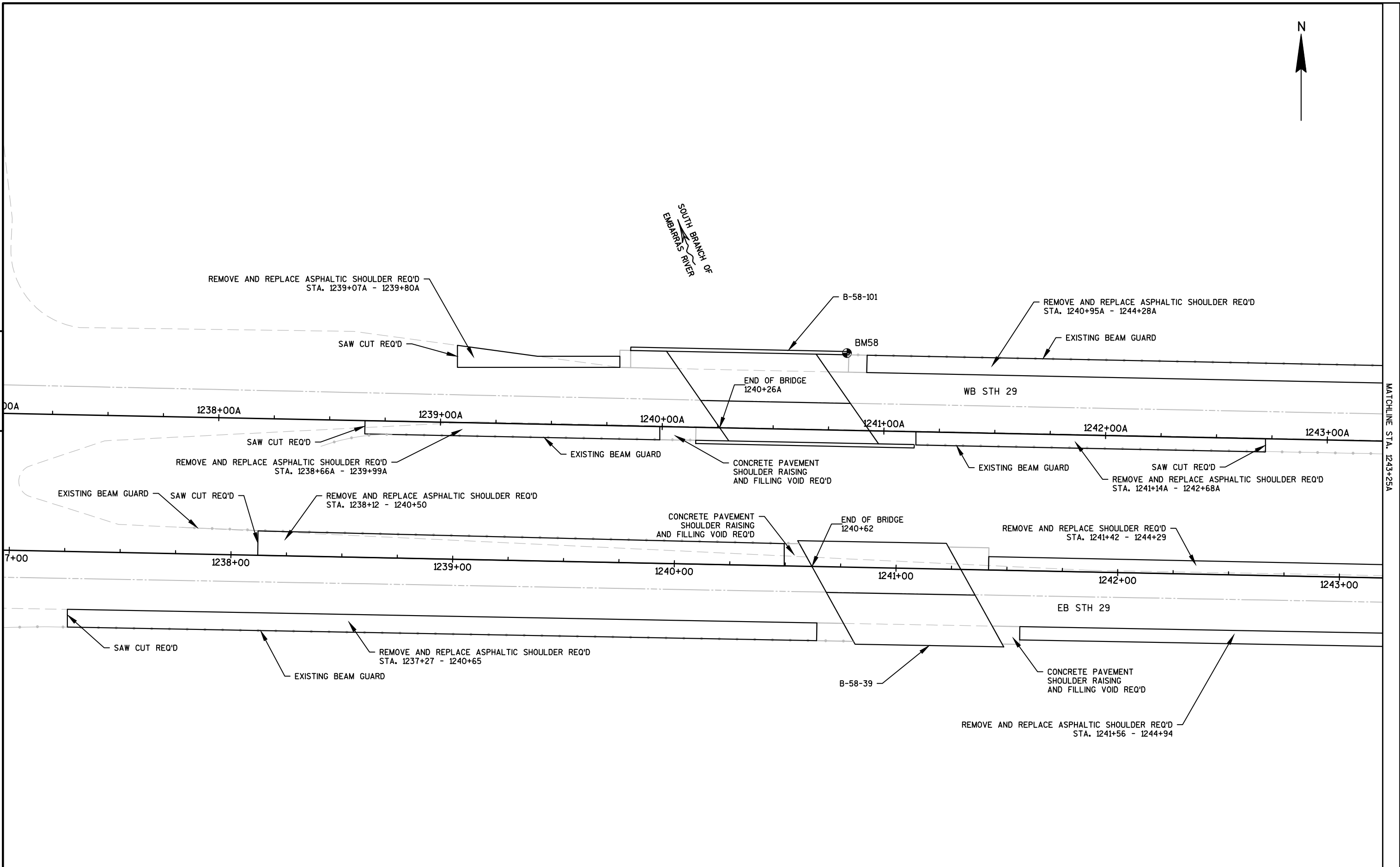
STATION	LT/RT	690.0150		REMARKS	STRUCTURE
		LF			
1237+27	RT	6		OUTSIDE SHOULDER	B-58-39
1238+12	LT	10		MEDIAN SHOULDER	B-58-39
1244+29	LT	3		MEDIAN SHOULDER	B-58-39
1244+94	RT	6		OUTSIDE SHOULDER	B-58-39
		SUBTOTAL	25		
1238+66A	RT	3		MEDIAN SHOULDER	B-58-101
1239+07A	LT	11		OUTSIDE SHOULDER	B-58-101
1242+68A	RT	3		MEDIAN SHOULDER	B-58-101
1244+28A	LT	6		OUTSIDE SHOULDER	B-58-101
		SUBTOTAL	23		
1829+74	RT	6		OUTSIDE SHOULDER	B-58-93
1830+18	LT	3		MEDIAN SHOULDER	B-58-93
1837+08	LT	3		MEDIAN SHOULDER	B-58-93
1837+64	RT	6		OUTSIDE SHOULDER	B-58-93
		SUBTOTAL	18		
1370+21	RT	6		OUTSIDE SHOULDER	B-58-70
1370+64	LT	3		MEDIAN SHOULDER	B-58-70
1374+53	RT	6		OUTSIDE SHOULDER	B-58-70
1377+31	LT	3		MEDIAN SHOULDER	B-58-70
		SUBTOTAL	18		
1369+73A	LT	6		OUTSIDE SHOULDER	B-58-71
1372+24A	RT	3		MEDIAN SHOULDER	B-58-71
1375+90A	RT	3		MEDIAN SHOULDER	B-58-71
1377+58A	LT	6		OUTSIDE SHOULDER	B-58-71
		SUBTOTAL	18		
1453+57	RT	6		OUTSIDE SHOULDER	B-58-74
1453+62	LT	3		MEDIAN SHOULDER	B-58-74
1465+06	LT	3		MEDIAN SHOULDER	B-58-74
1465+87	RT	6		OUTSIDE SHOULDER	B-58-74
		SUBTOTAL	18		
1454+16A	RT	3		MEDIAN SHOULDER	B-58-75
1454+61A	LT	14		OUTSIDE SHOULDER	B-58-75
1463+10A	RT	3		MEDIAN SHOULDER	B-58-75
1464+54A	LT	6		OUTSIDE SHOULDER	B-58-75
		SUBTOTAL	26		
1878+58	RT	6		OUTSIDE SHOULDER	B-58-84
1879+18	LT	3		MEDIAN SHOULDER	B-58-84
1885+91	LT	3		MEDIAN SHOULDER	B-58-84
1886+29	RT	6		OUTSIDE SHOULDER	B-58-84
		SUBTOTAL	18		
1878+89A	LT	6		OUTSIDE SHOULDER	B-58-85
1880+52A	RT	3		MEDIAN SHOULDER	B-58-85
1884+74A	RT	3		MEDIAN SHOULDER	B-58-85
1886+62A	LT	6		OUTSIDE SHOULDER	B-58-85
		SUBTOTAL	18		
		TOTAL	182		

RAISING CONCRETE PAVEMENT

STRUCTURE	STATION - STATION	LT/RT	SPV.0035.01	SPV.0060.02	REMARKS
			CEMENT SLURRY MIXTURE CY	CONCRETE PAVEMENT SHOULDER RAISING AND FILLING VOID (EACH)	
B-58-39	1240+50 - 1240+62	LT	1.8	1	CONCRETE SHOULDER
	1241+44 - 1241+56	RT	1.5	1	CONCRETE SHOULDER
	B-58-39 SUBTOTAL		3.3	2	
B-58-101	1239+99'A' - 1240+15'A'	RT	1.8	1	SURFACE DRAIN
	B-58-101 SUBTOTAL		1.8	1	
B-58-93	1832+89 - 1833+04	LT	1.7	1	SURFACE DRAIN
	1832+98 - 1833+13	RT	2.0	1	SURFACE DRAIN
	1834+19 - 1834+33	LT	1.6	1	SURFACE DRAIN
	B-58-93 SUBTOTAL		5.3	3	
B-58-70	1373+34 - 1373+50	LT	1.7	1	SURFACE DRAIN
	1373+60 - 1373+71	RT	1.8	1	CONCRETE SHOULDER
	1374+31 - 1374+43	LT	1.4	1	CONCRETE SHOULDER
	1374+38 - 1374+53	RT	1.9	1	CONCRETE SHOULDER
	B-58-70 SUBTOTAL		6.8	4	
B-58-71	1373+25'A' - 1373+37'A'	RT	1.7	1	SURFACE DRAIN
	1374+08'A' - 1374+20'A'	LT	1.4	1	CONCRETE SHOULDER
	1374+15'A' - 1374+30'A'	RT	2.0	1	CONCRETE SHOULDER
	B-58-71 SUBTOTAL		5.1	3	
B-58-74	1462+06 - 1462+57	LT	5.0	1	SURFACE DRAIN
	1462+37 - 1462+79	RT	5.8	1	CONCRETE SHOULDER & SURFACE DRAIN
	B-58-74 SUBTOTAL		10.8	2	
B-58-75	1455+23'A' - 1455+61'A'	LT	4.9	1	CONCRETE SHOULDER
	1455+86'A' - 1445+91'A'	RT	1.1	1	CONCRETE SHOULDER
	1461+04'A' - 1461+08'A'	LT	1.2	1	CONCRETE SHOULDER
	1461+67'A' - 1461+96'A'	RT	3.3	1	SURFACE DRAIN
	B-58-75 SUBTOTAL		10.5	4	
B-58-84	1881+86 - 1182+19	LT	3.5	1	CONCRETE SHOULDER & SURFACE DRAIN
	1181+86 - 1882+07	RT	2.8	1	CONCRETE SHOULDER
	1882+91 - 1883+12	LT	3.1	1	CONCRETE SHOULDER
	B-58-84 SUBTOTAL		9.4	3	
B-58-85	1882+07'A' - 1882+27'A'	RT	1.9	1	CONCRETE SHOULDER
	1882+07'A' - 1882+29'A'	LT	3.2	1	SURFACE DRAIN
	1883+12'A' - 1883+32'A'	LT	2.4	1	CONCRETE SHOULDER
	B-58-85 SUBTOTAL		7.5	3	
ITEM TOTAL			60.5	25	

NOTE: FOR INFORMATION PURPOSES ONLY, CEMENT SLURRY MIXTURE QUANTITY ESTIMATED TO BE 6" THICK FOR ENTIRE AREA OF CONCRETE TO BE RAISED.

NOTE: ALL QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED



PROJECT NO:1058-24-62	HWY:STH 29	COUNTY:SHAWANO	PLAN B-58-39&101	SHEET	E
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MATCHLINE STA. 1243+25A



5

5

REMOVE AND REPLACE ASPHALTIC SHOULDER REQ'D
STA. 1240+95A - 1244+28A

EXISTING BEAM GUARD

SAW CUT REQ'D

WB STH 29

1244+00A

1245+00A

1246+00A

1247+00A

1248+00A

1249+00A

EXISTING BEAM GUARD

REMOVE AND REPLACE ASPHALTIC SHOULDER REQ'D
STA. 1241+42 - 1244+29

SAW CUT REQ'D

1244+00

1245+00

1246+00

1247+00

1248+00

1249+00

EB STH 29

SAW CUT REQ'D

REMOVE AND REPLACE ASPHALTIC SHOULDER REQ'D
STA. 1241+56 - 1244+94

PROJECT NO:1058-24-62

HWY:STH 29

COUNTY:SHAWANO

PLAN B-58-39&101

SHEET

E

FILE NAME : P:\90S\93\00093211\CADD\1058_24_62\DESIGN\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050201-PN - 02

PLOT DATE : 1/20/2016 1:37 PM

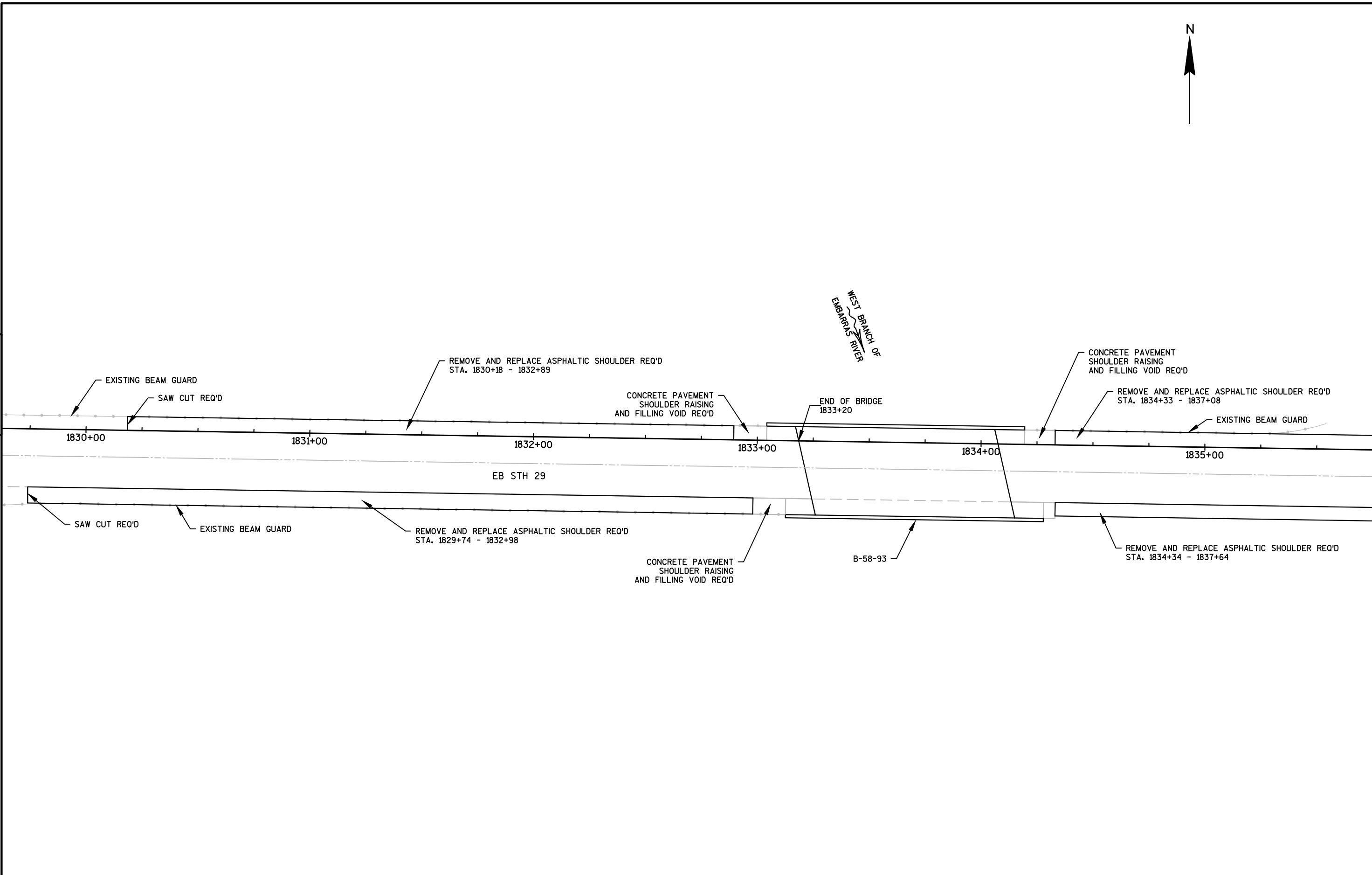
PLOT BY : PHIL SAEGER

PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDs SHEET 44

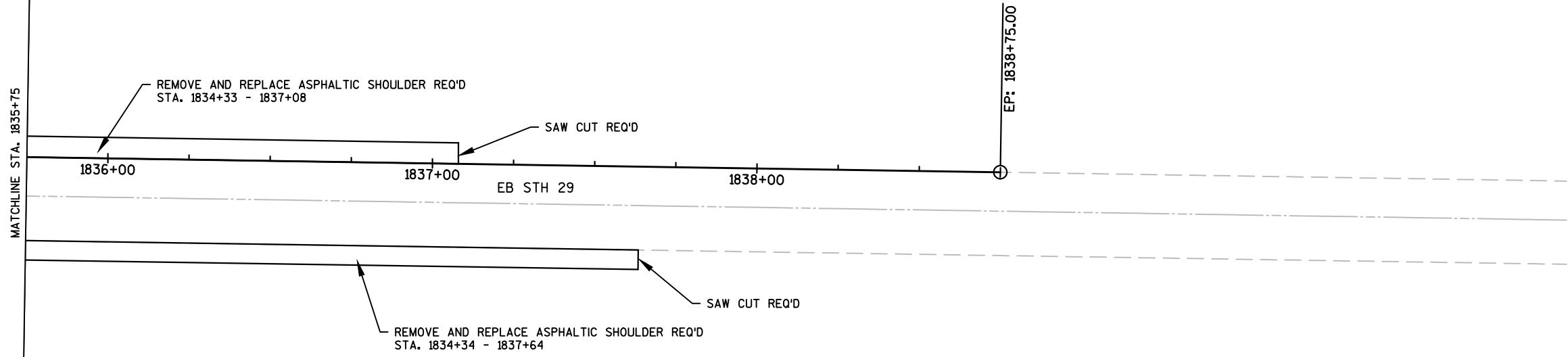
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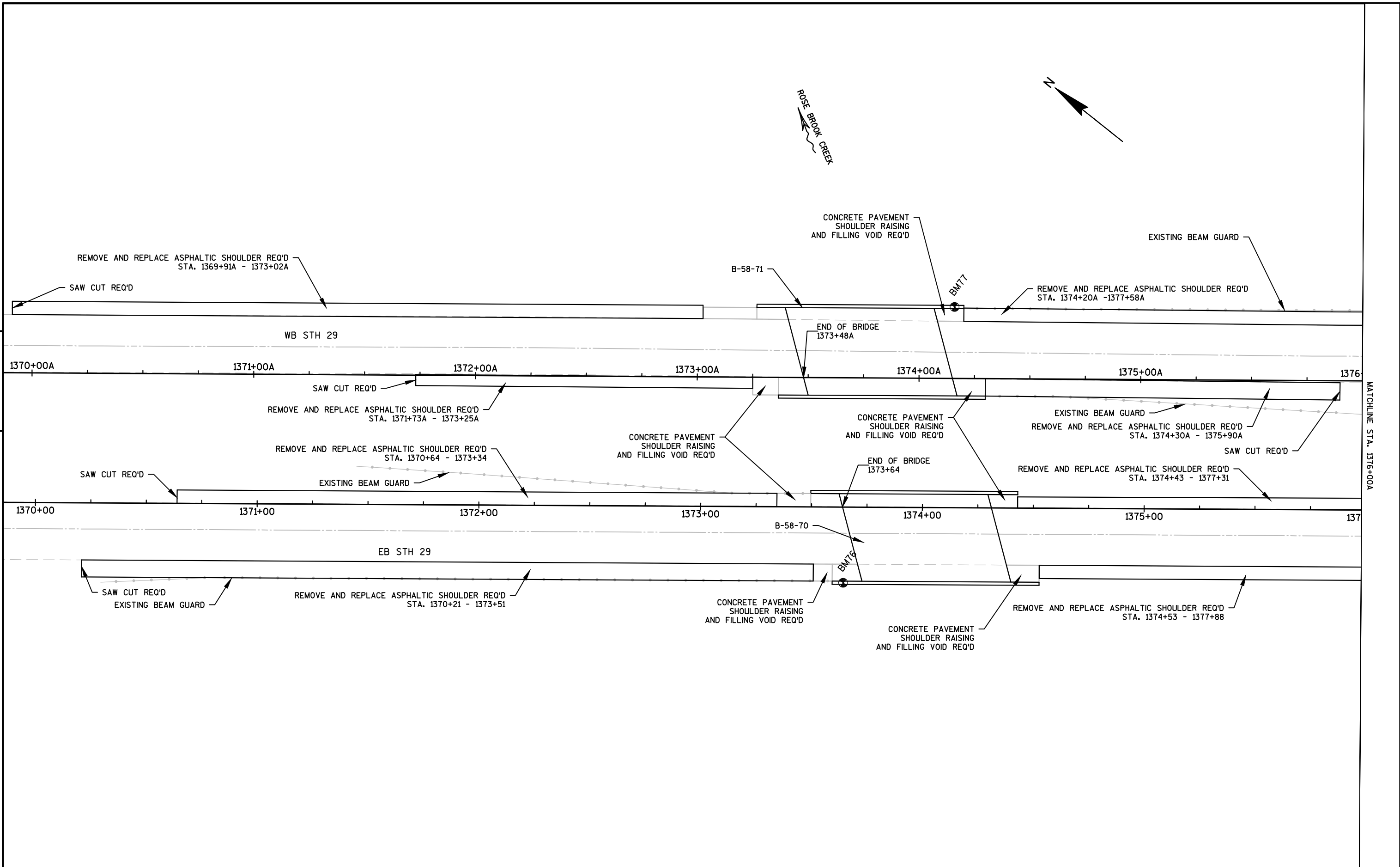


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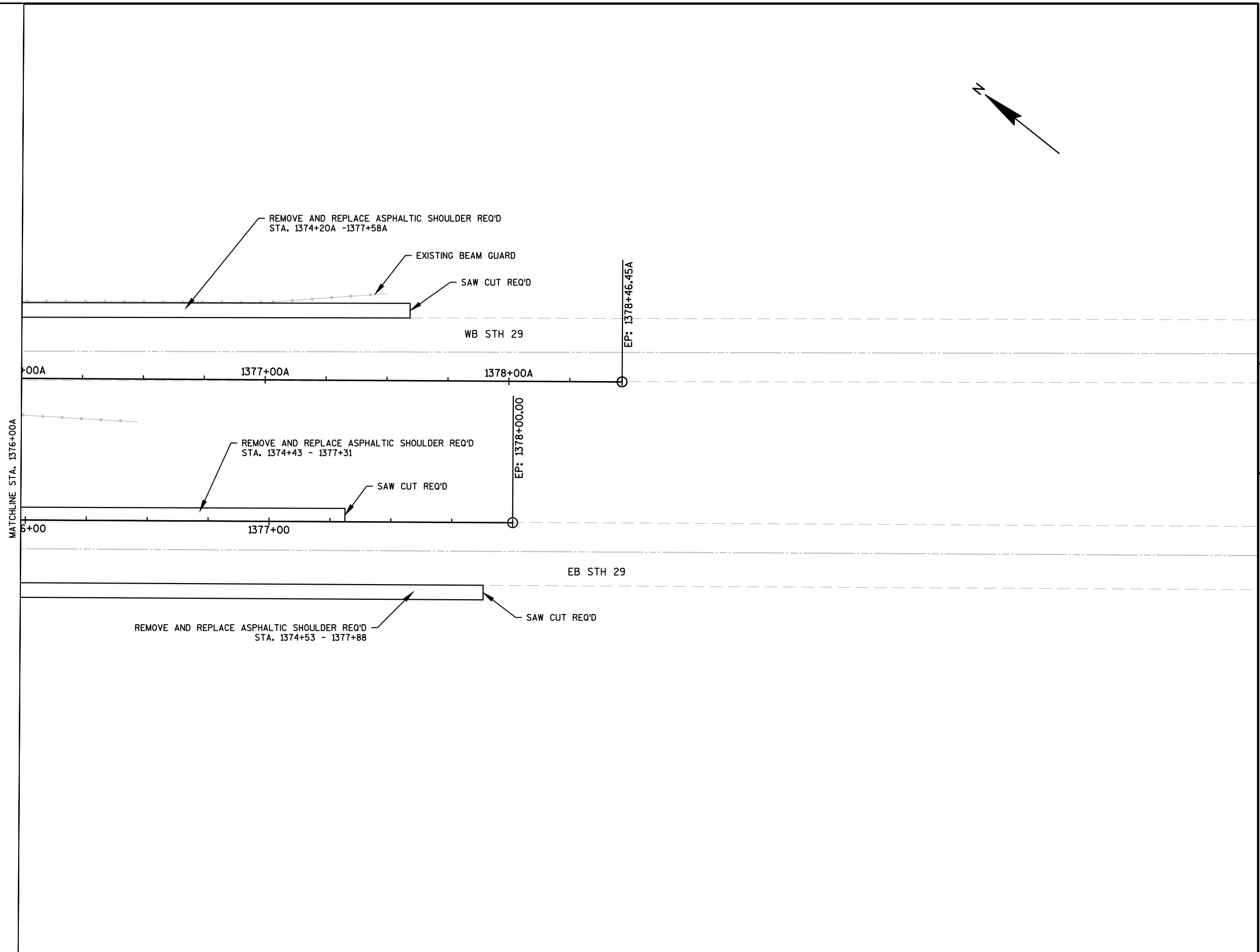
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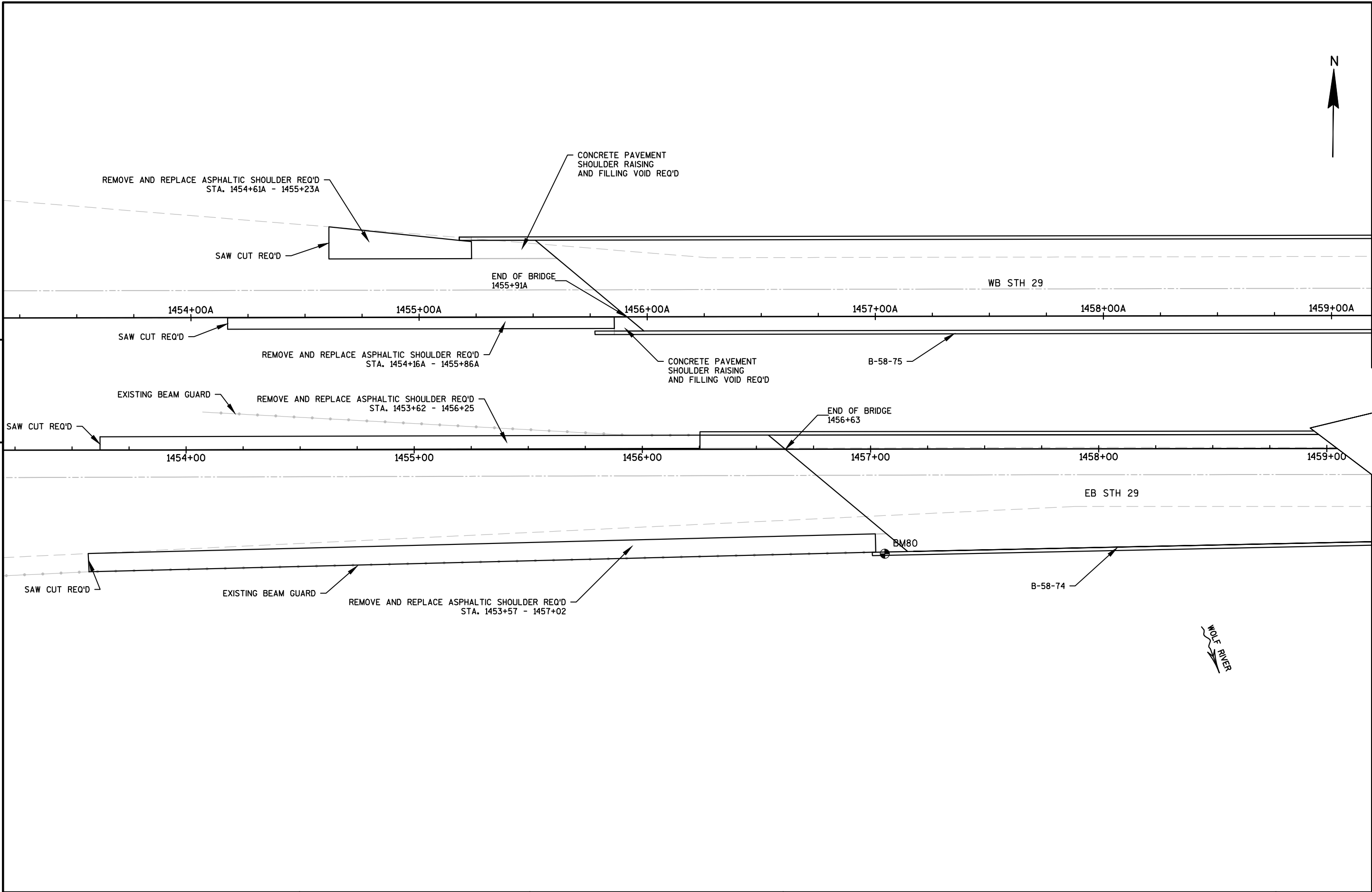




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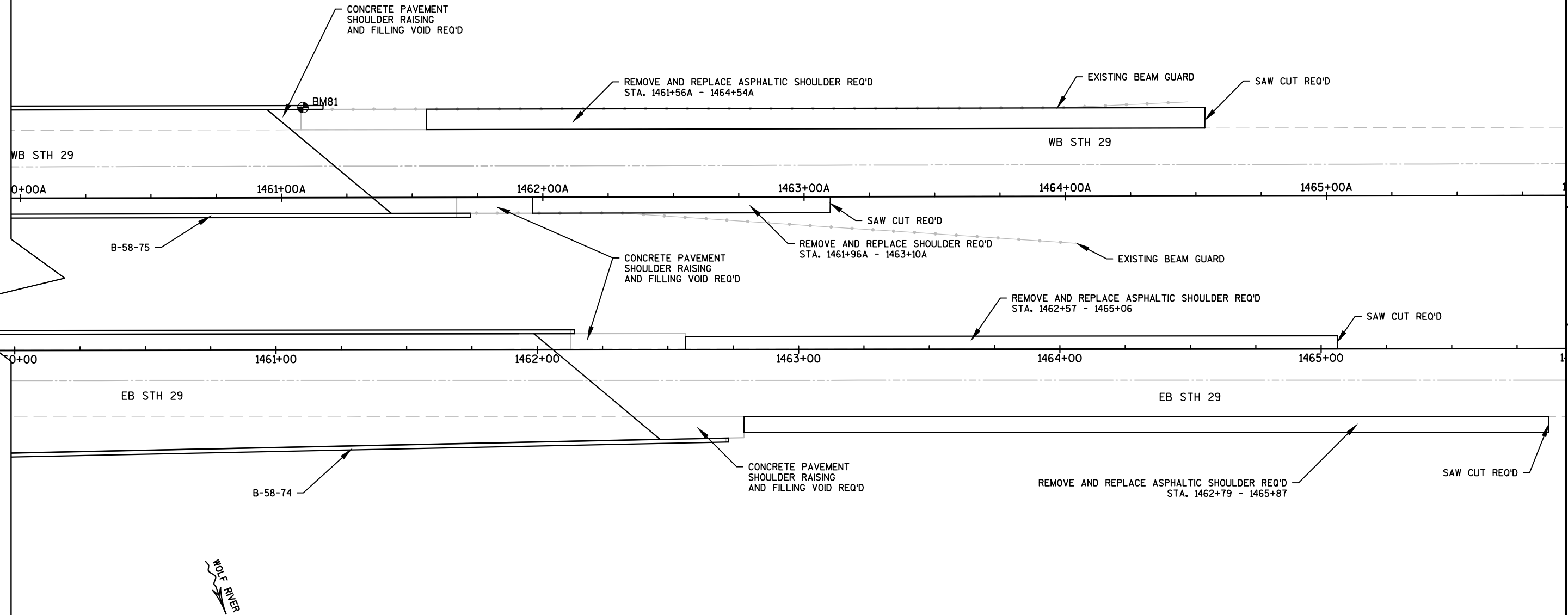


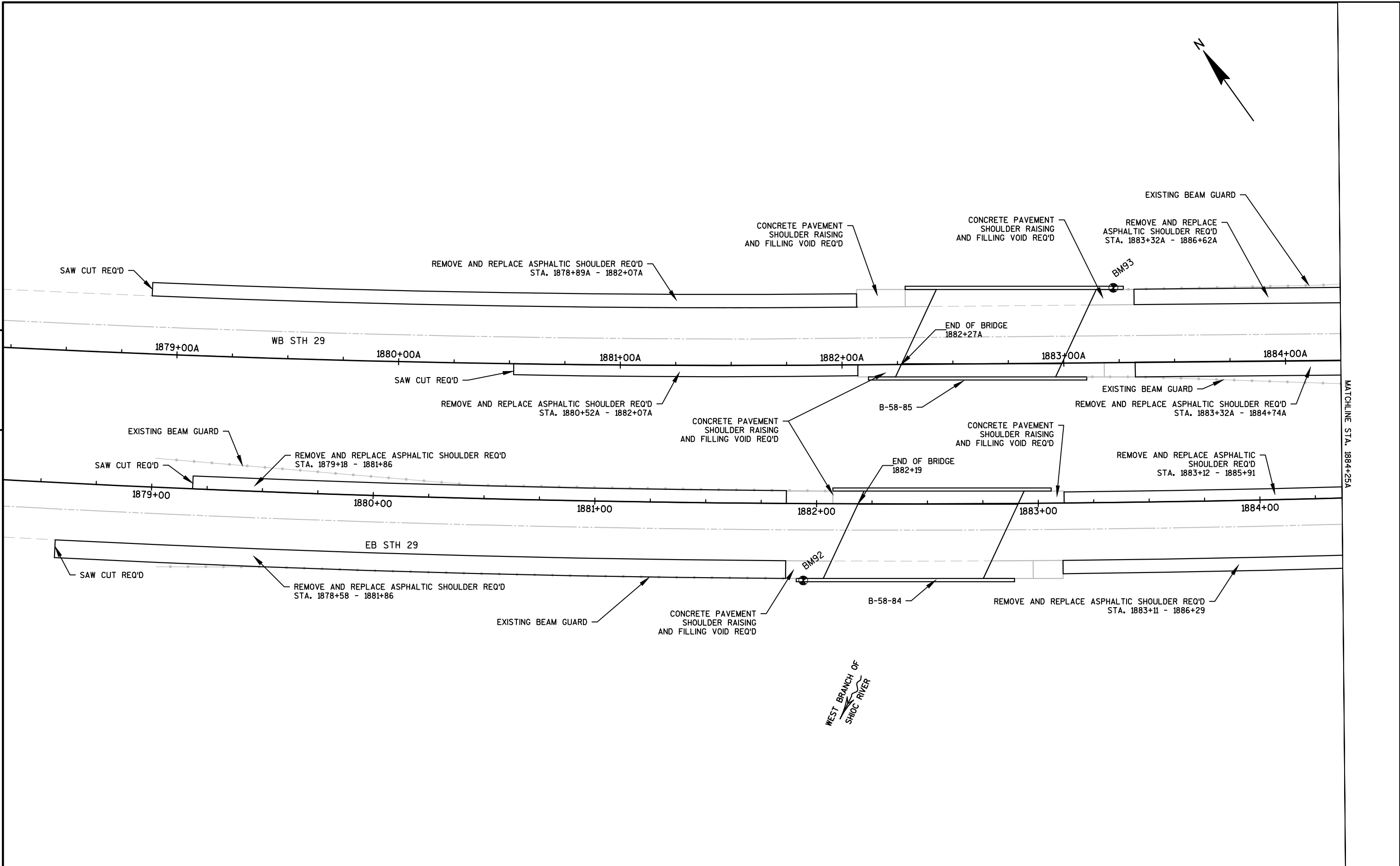
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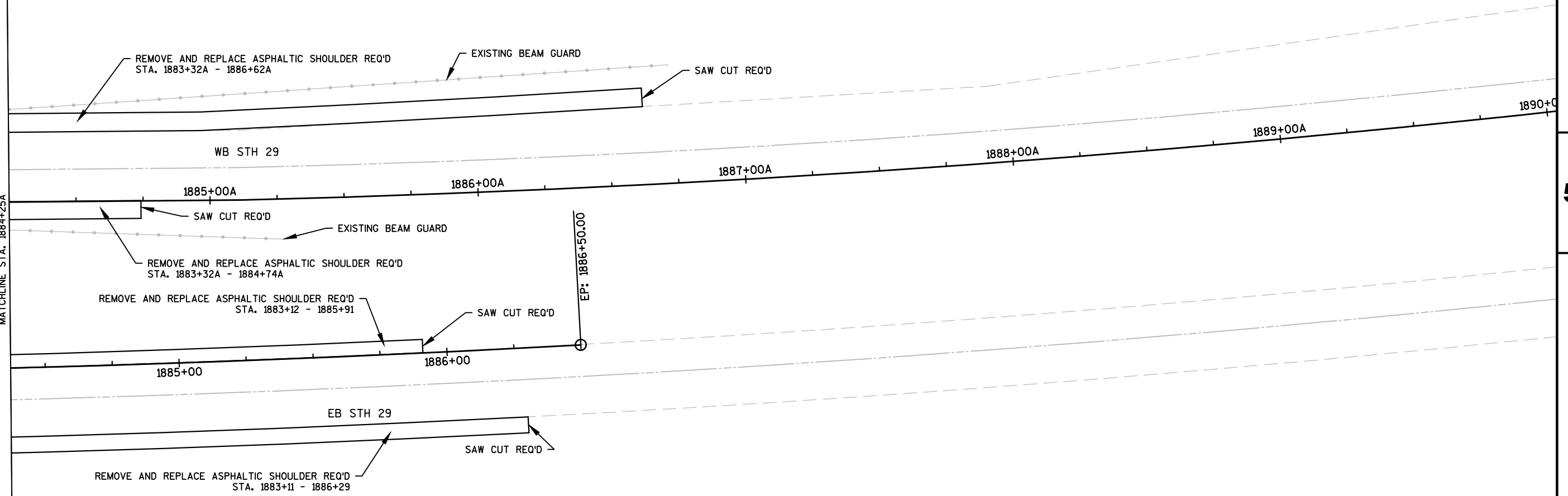
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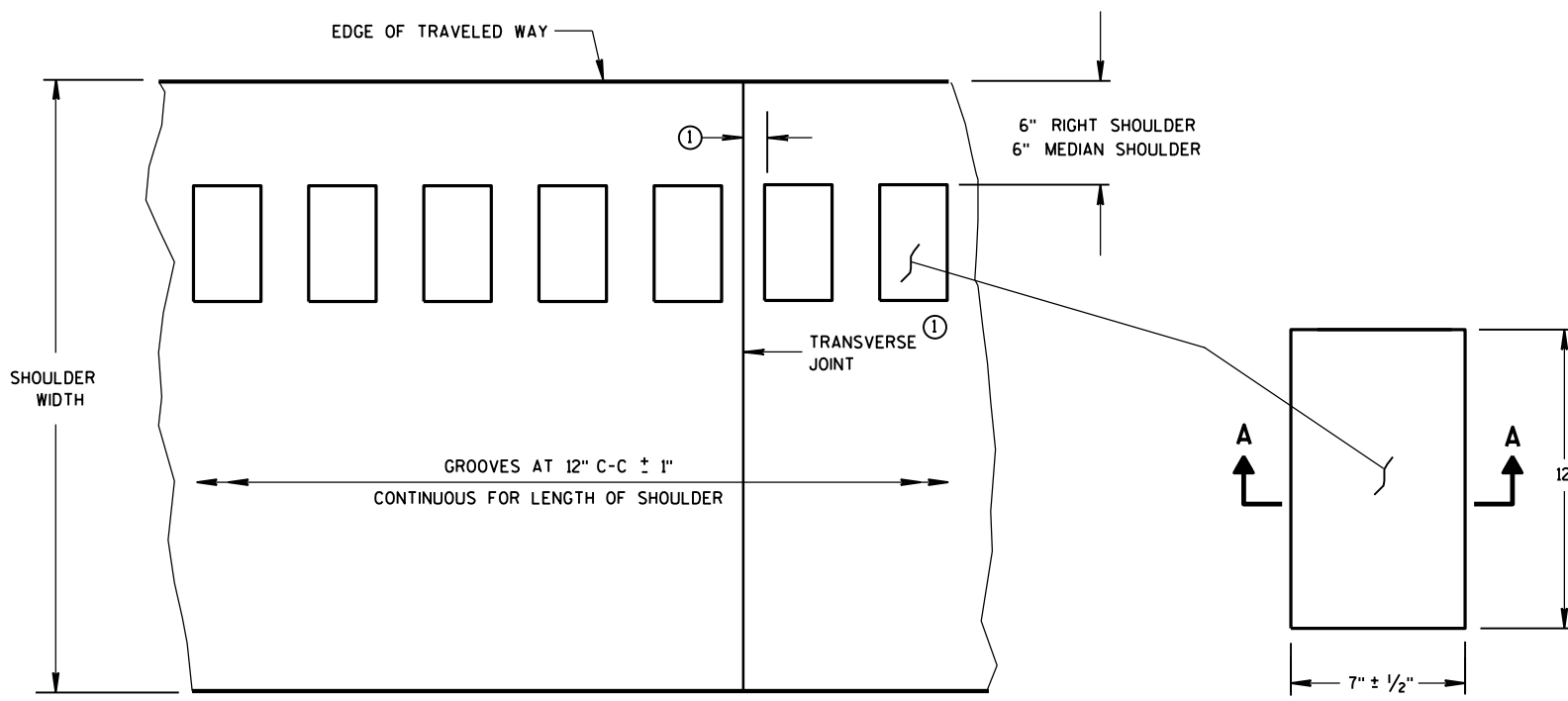
MATCHLINE STA. 1884+25A



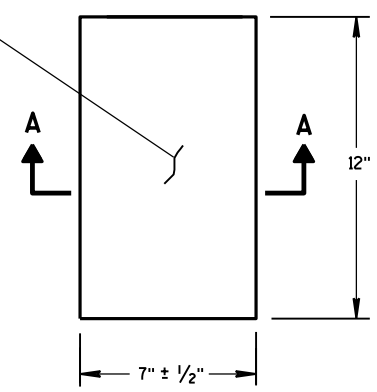
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Standard Detail Drawing List

13A05-05A	SHOULDER RUMBLE STRIP, MILLING
15C08-16A	PAVEMENT MARKING (MAINLINE)
15D12-06A	TRAFFIC CONTROL, LANE CLOSURE
15D15-02	TRAFFIC CONTROL, EXIT AND ENTRANCE RAMP WITHIN LANE CLOSURE
15D21-04	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE



PLAN VIEW
SHOULDER WITH GROOVES



PLAN VIEW
(SINGLE GROOVE)

PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

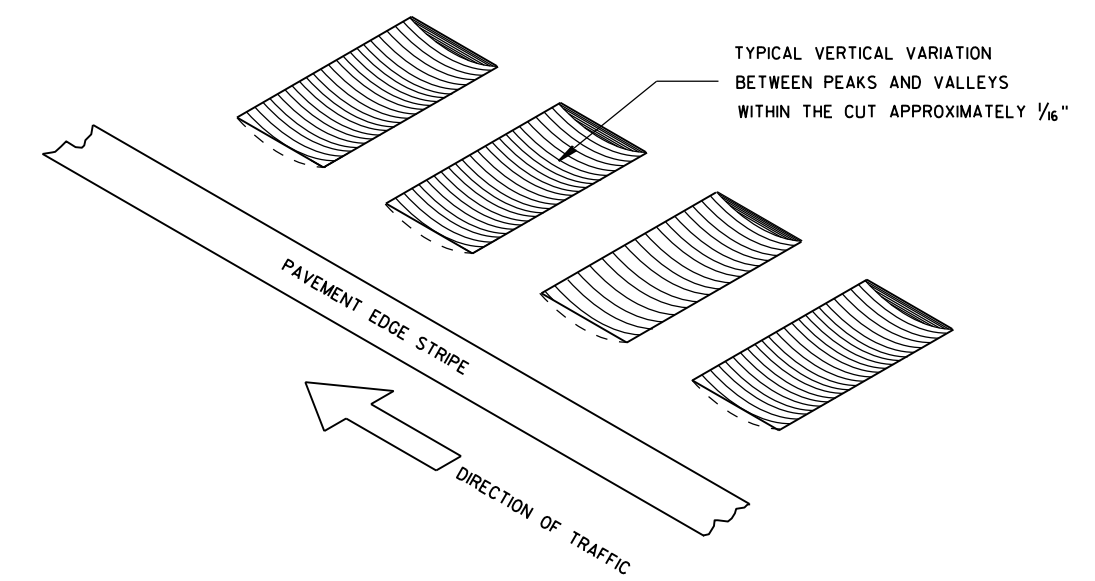
GENERAL NOTES

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

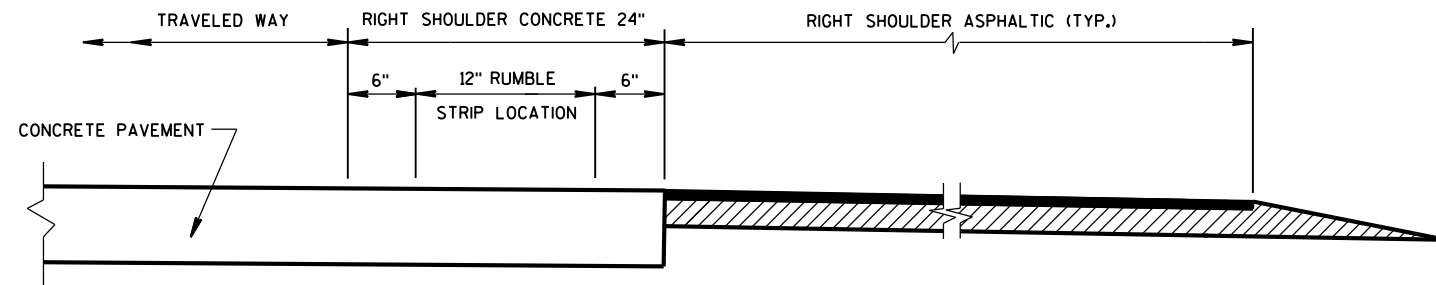
RUMBLE STRIPS ON EXPRESSWAYS

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

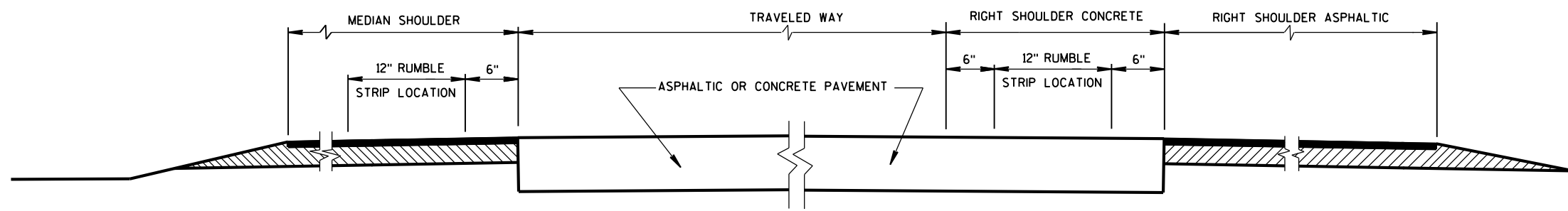
① CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6" AWAY FROM TRANSVERSE JOINTS.



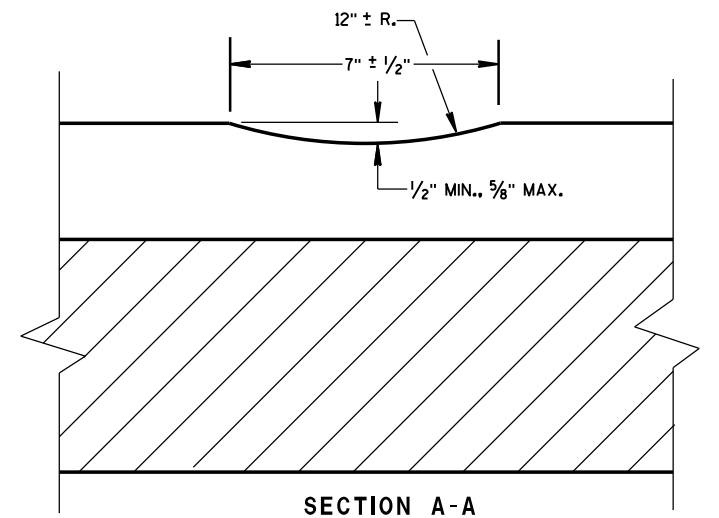
ISOMETRIC



SECTION VIEW
CONCRETE PAVEMENT EXTENDS INTO RIGHT SHOULDER)



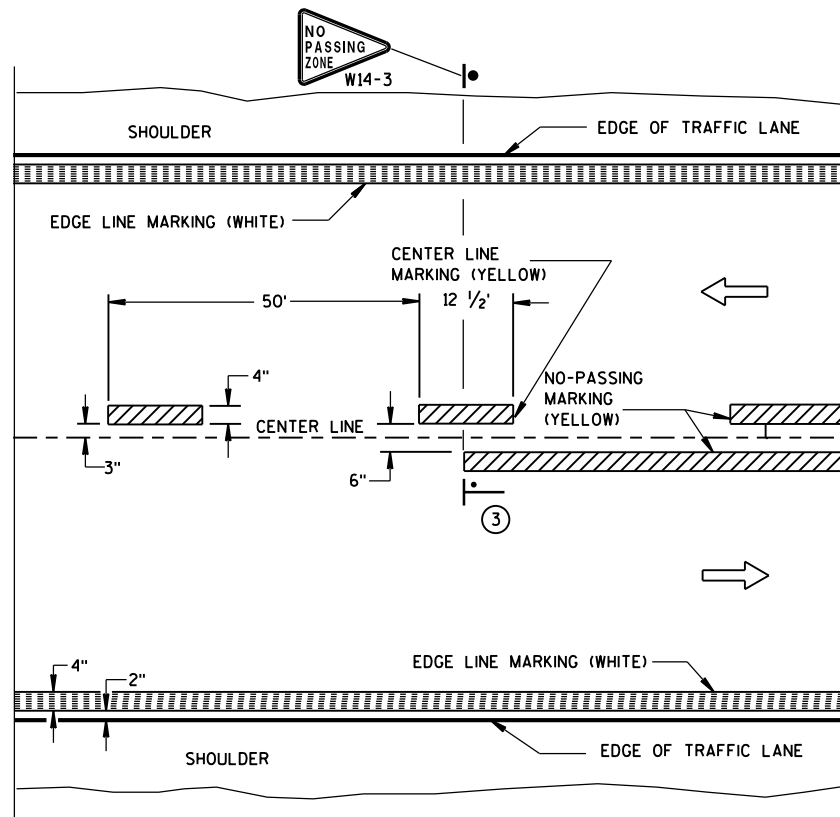
SECTION VIEW
TYPICAL LOCATIONS OF SHOULDER RUMBLE STRIPS
IN RURAL DIVIDED HIGHWAYS
(ONE ROADWAY IS SHOWN)



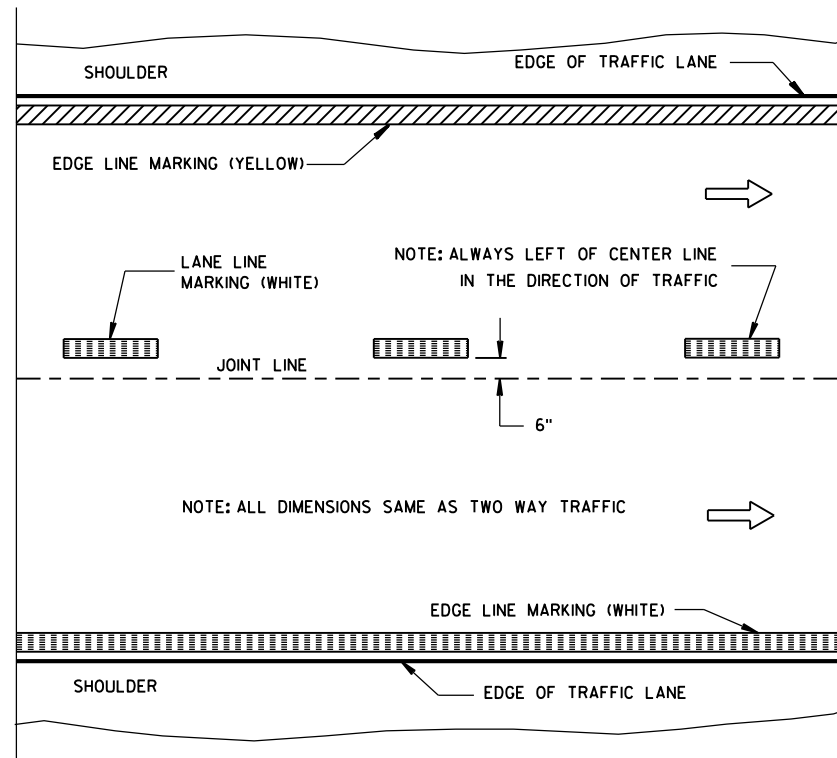
SECTION A-A

SHOULDER RUMBLE STRIP,
MILLING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

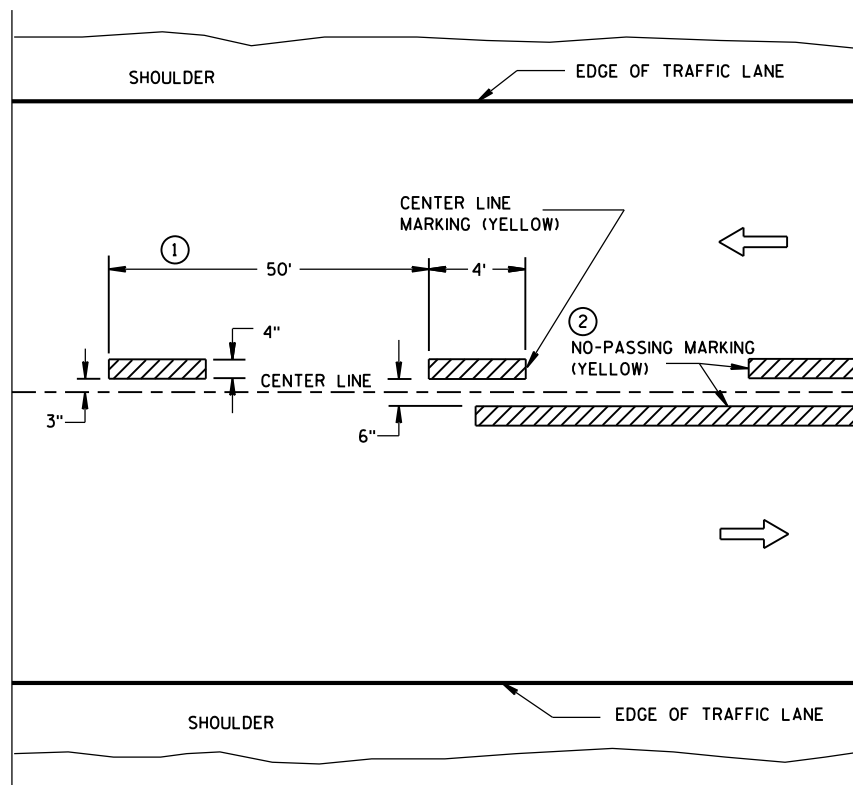


TWO WAY TRAFFIC

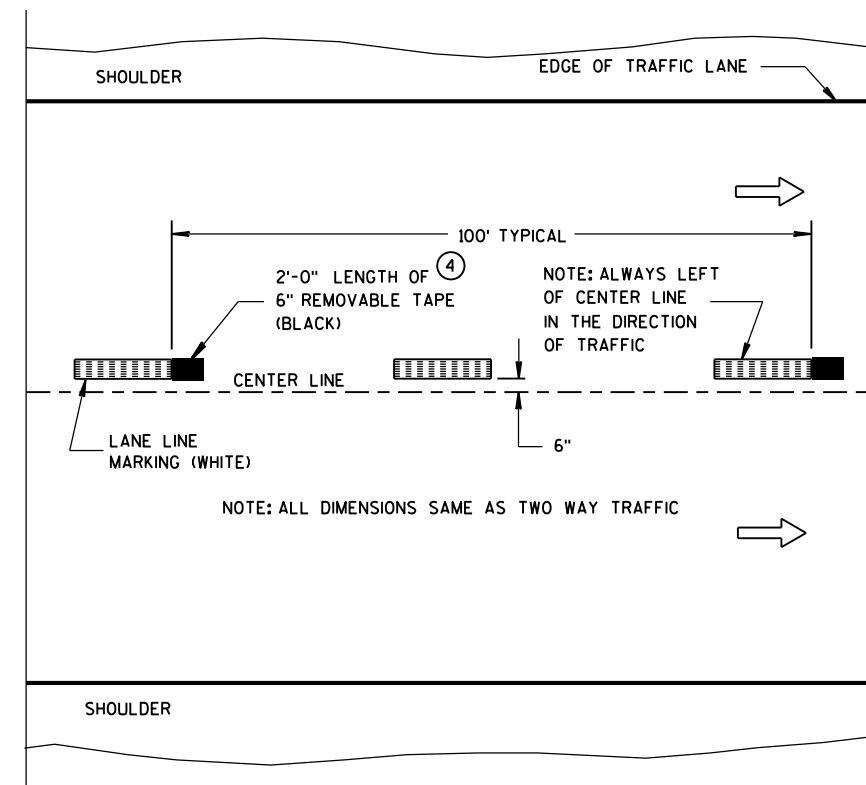


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

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

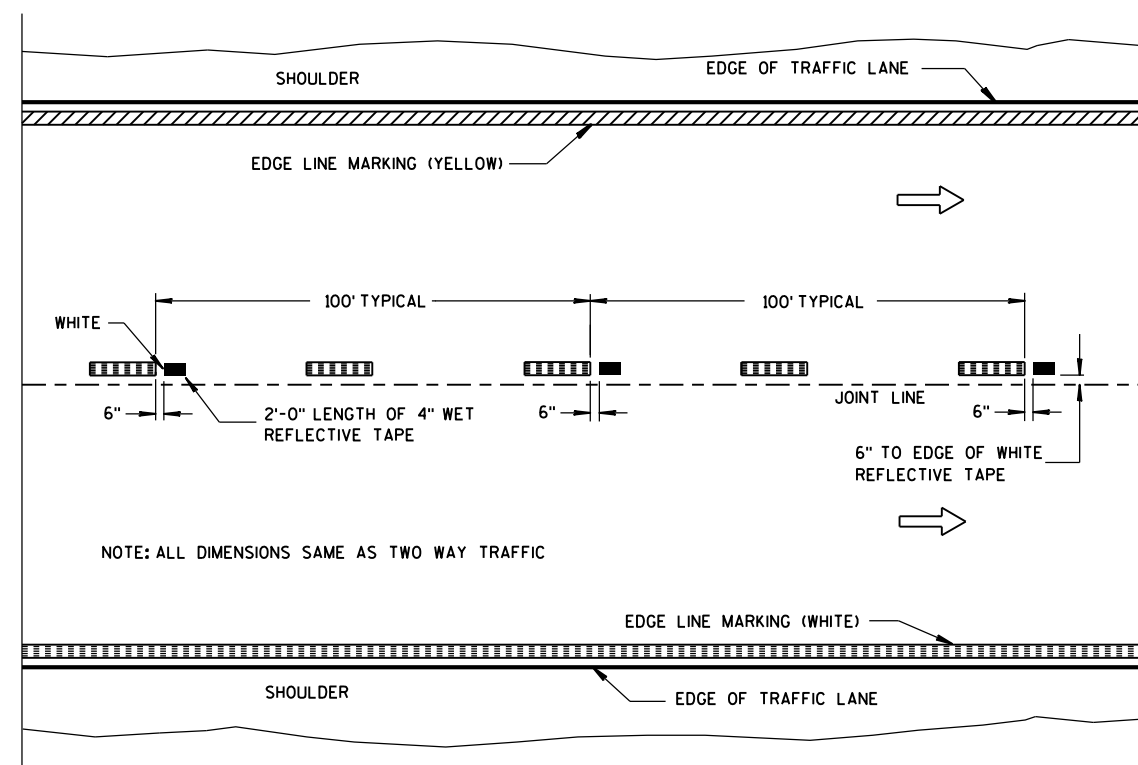
GENERAL NOTES

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

- ① HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- ② NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
- ③ NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
- ④ CONCRETE ONLY.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



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

LEGEND

- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5-13-2013
DATE
FHWA

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

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

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

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

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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

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

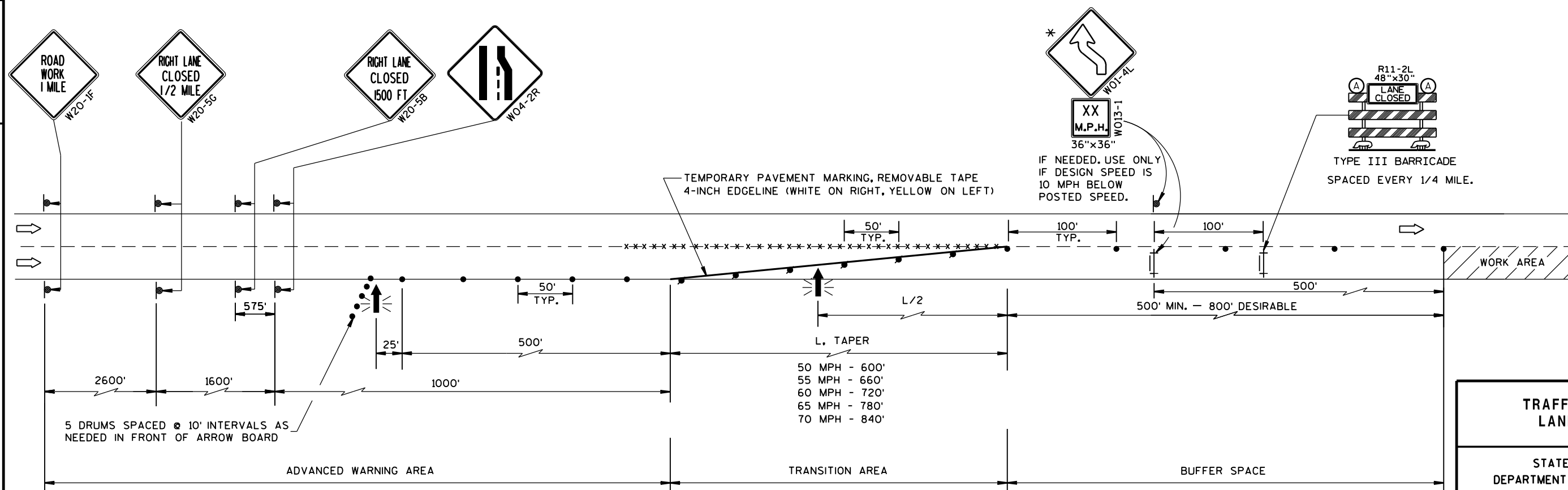
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

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

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

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

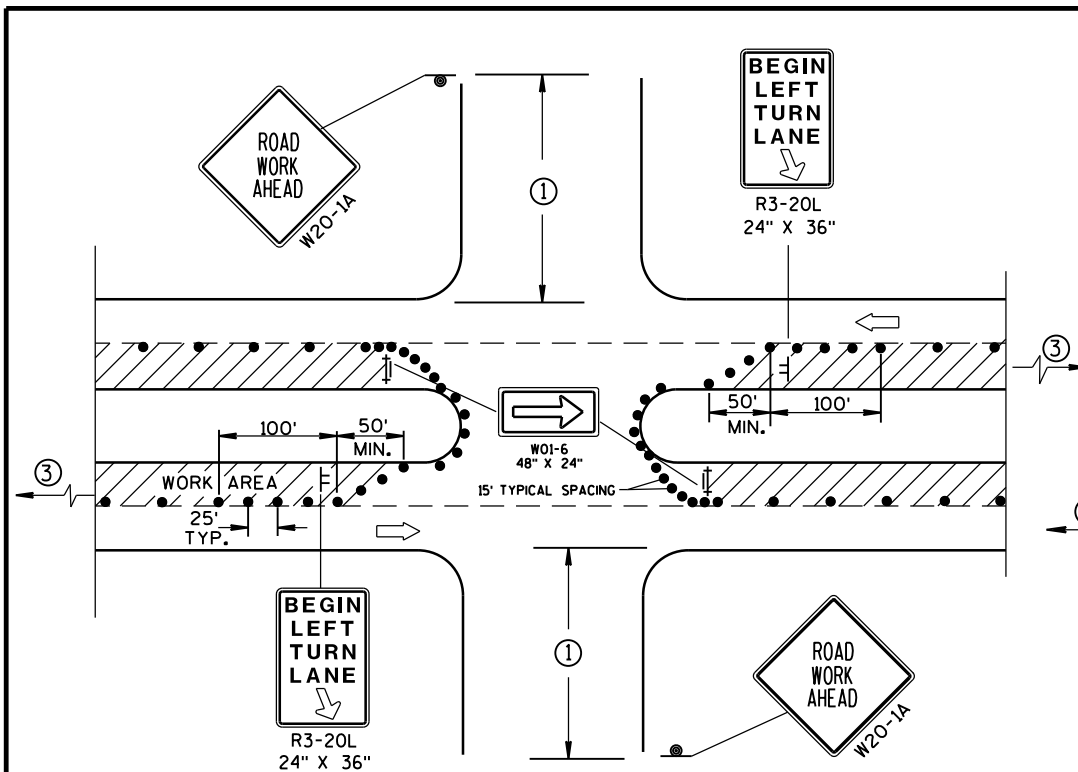
* THE LEFT REVERSE CURVE SIGN (W01-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



**TRAFFIC CONTROL,
LANE CLOSURE**

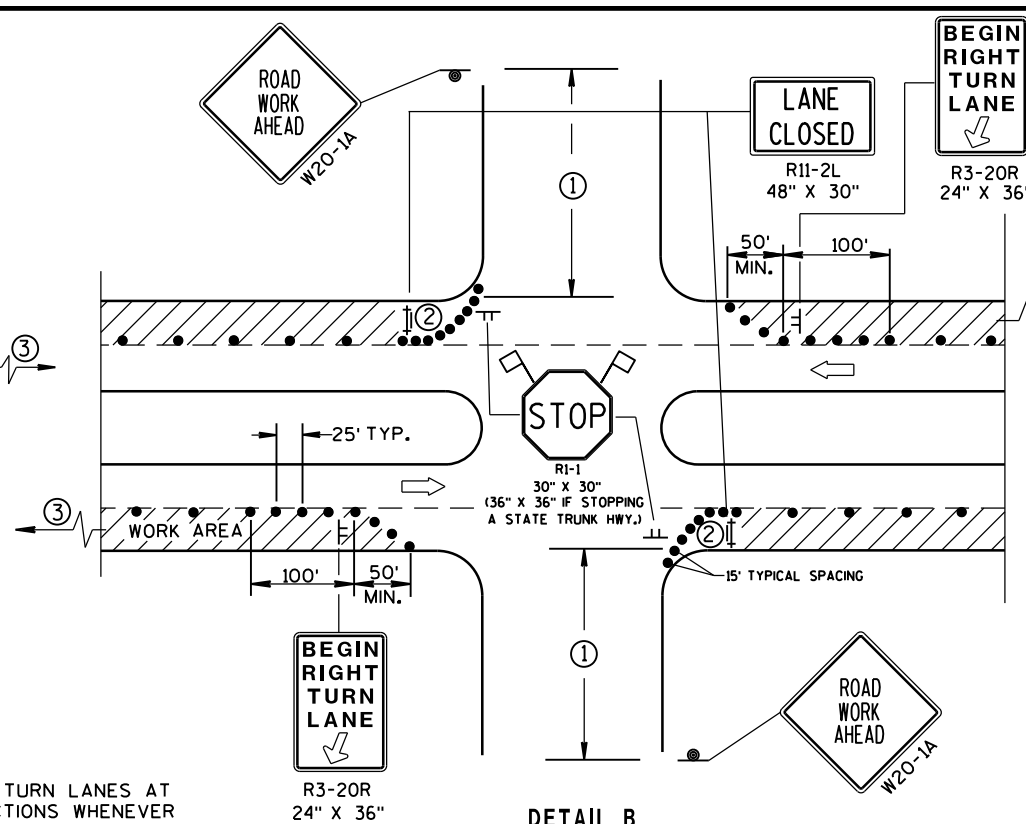
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



DETAIL A
FOR LEFT LANE CLOSURE AT
INTERSECTION OR MEDIAN OPENING

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



DETAIL B
FOR RIGHT LANE CLOSURE
AT INTERSECTION

GENERAL NOTES

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

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

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

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

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

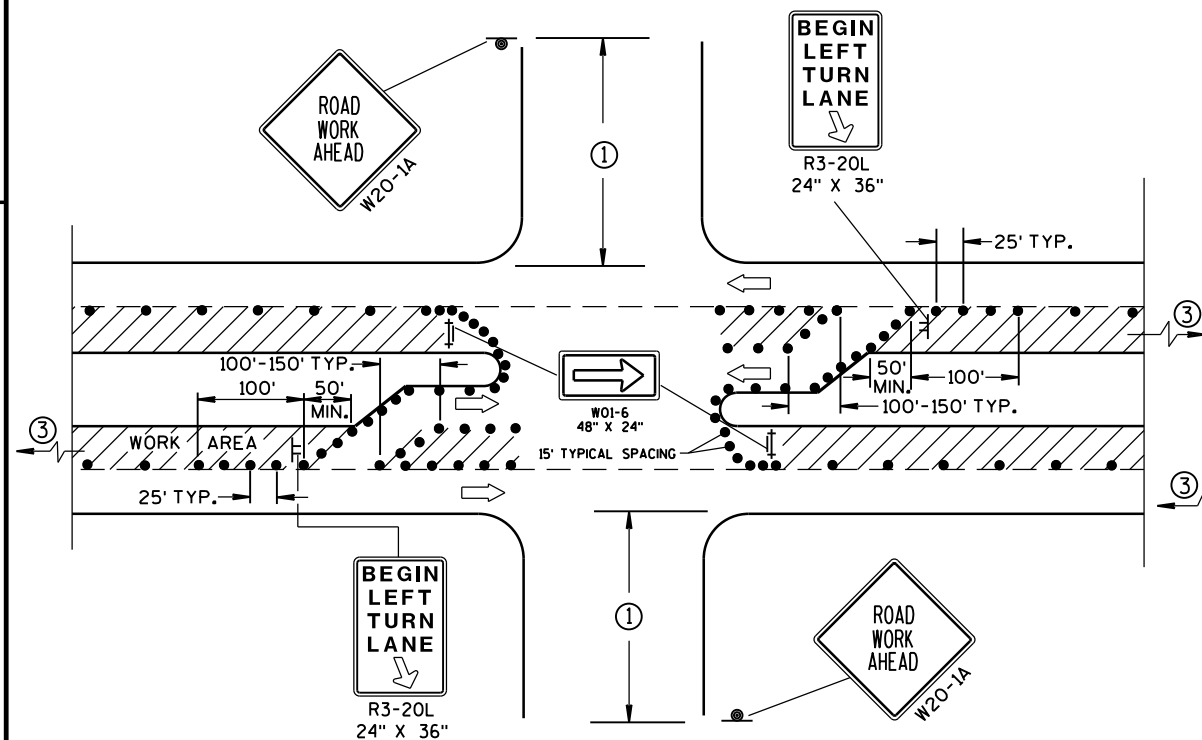
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

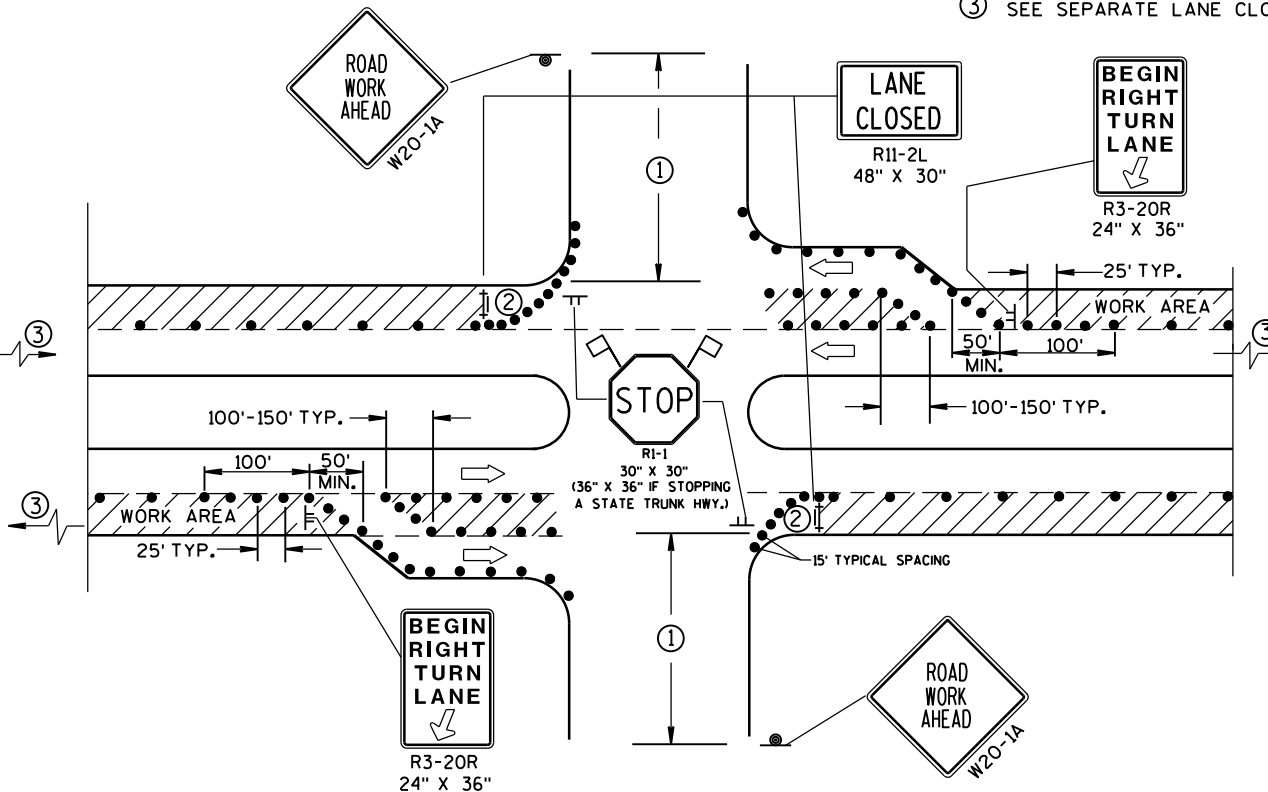
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

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



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



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

LEGEND

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

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	TOTAL
* 509.0301	PREPARATION DECKS TYPE 1	SY	46
* 509.0302	PREPARATION DECKS TYPE 2	SY	23
* 509.2000	FULL-DEPTH DECK REPAIR	SY	5
509.5100.S	POLYMER OVERLAY	SY	416
SPV.0035.02	CONCRETE MASONRY DECK PATCHING	CY	4.5
SPV.0090.01	SAWING PAVEMENT DECK PREPARATION AREAS	LF	312

* QUANTITY LISTED IS AN ESTIMATE BASED ON THE CONDITION MAPS AND QUANTITY ESTIMATES FOR DECK REPAIRS PROVIDED BY INFRASENSE INC. THE CONTRACTOR SHALL COORDINATE THE FIELD IDENTIFICATION OF ALL DECK REPAIR LOCATIONS WITH THE ENGINEER.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THIS PROJECT WILL REHABILITATE THE EXISTING STRUCTURE, B-58-39, A SINGLE SPAN, 63' PRESTRESSED CONCRETE GIRDER BRIDGE SET ON CONCRETE SILL ABUTMENTS.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE NOT SHOWN ON THE ROAD PLANS.

APPLY POLYMER OVERLAY TO DECK SURFACE AND CONCRETE APPROACH SLABS.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAWCUT.

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2 AND FULL-DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY DECK PATCHING".

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS20
INVENTORY RATING : HS20
OPERATIONAL RATING : HS33
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 210 KIPS

TRAFFIC DATA:

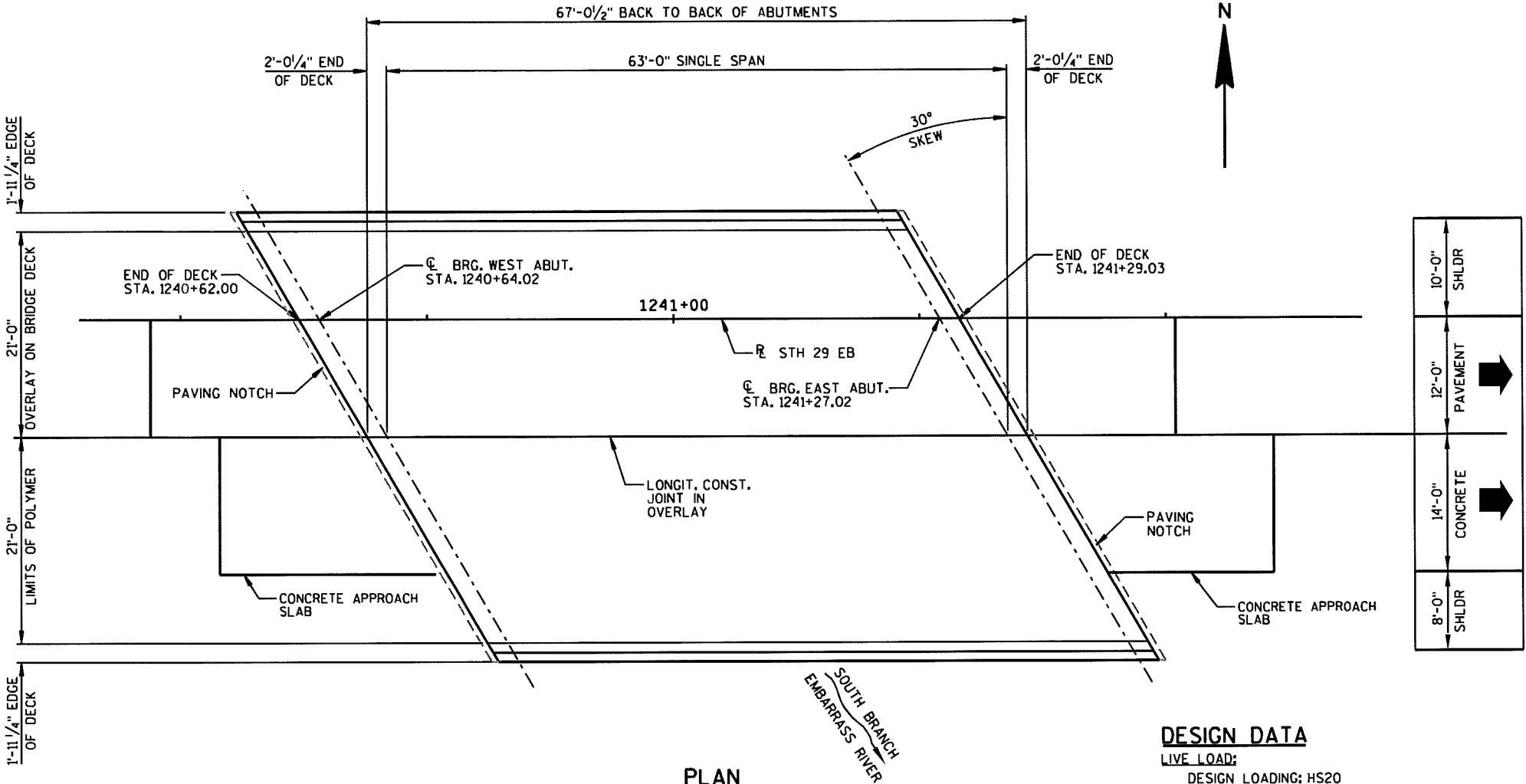
A.A.D.T. (2022) = 12,600
A.A.D.T. (2042) = 17,000

MATERIAL PROPERTIES:

CONCRETE MASONRY-DECK PATCHING—f'c = 4,000 P.S.I.

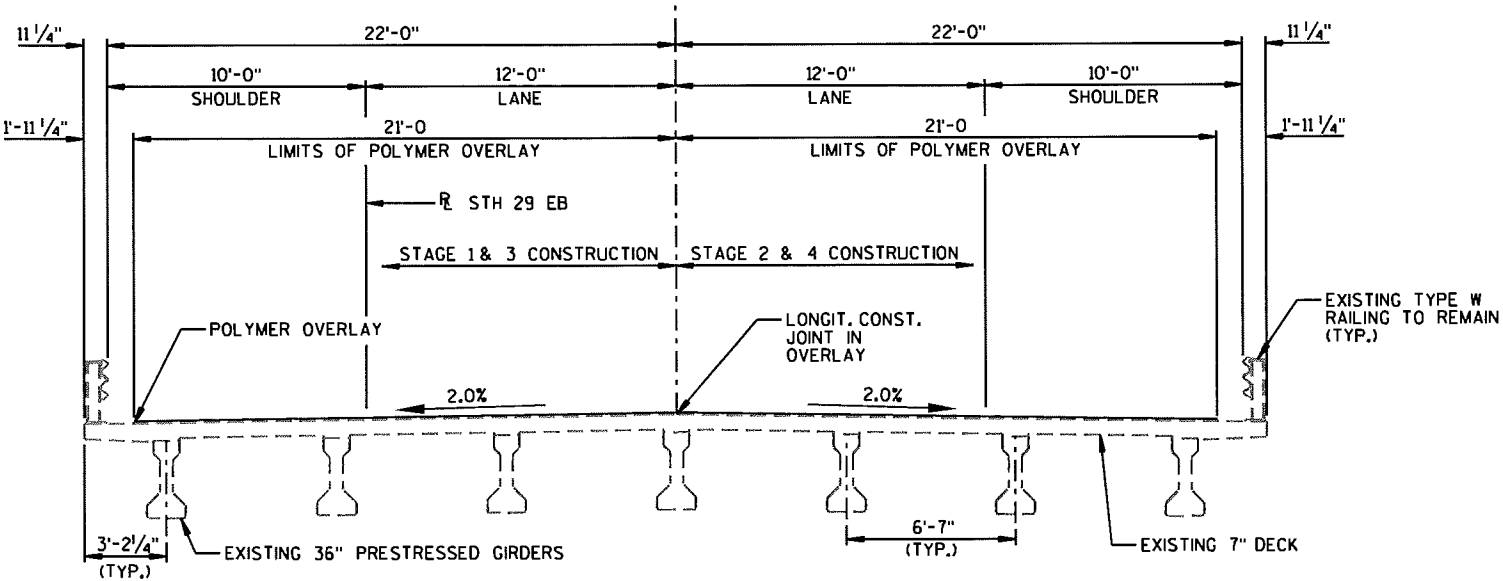
LIST OF DRAWINGS

1. OVERLAY PLAN

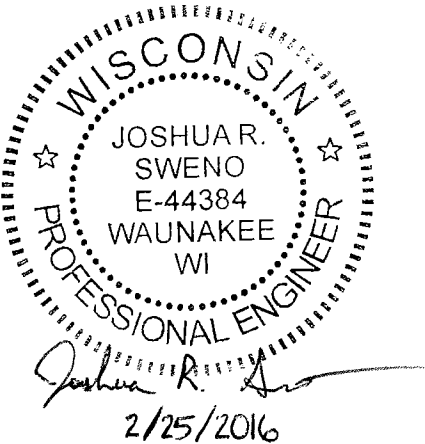


PLAN

(REHAB - POLYMER OVERLAY ON EXISTING SINGLE SPAN PRESTRESSED CONCRETE GIRDER)



CROSS SECTION THRU ROADWAY
(LOOKING EAST)



DESIGN CONTACT:
JOSHUA SWENO
(608) 355-8852

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608) 266-8489

NO.	DATE	REVISION	BY
MSA TRANSPORTATION • MUNICIPAL DEVELOPMENT • ENVIRONMENTAL 1230 South Boulevard • Baraboo, WI 53913 608-356-2771 1-800-362-4505 Fax: 608-356-2770			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ACCEPTED <i>William C. Dreher</i> 05/09/16 CHIEF STRUCTURES DESIGN ENGINEER DATE			
STRUCTURE B-58-39			
STH 29 EAST BOUND OVER SOUTH BRANCH EMBARRASS RIVER			
COUNTY	SHAWANO	TOWN/CITY/VILLAGE	WITTENBERG
DESIGN SPEC. REHABILITATION - N/A			
DESIGNED BY	JAS	DESIGN CK'D.	JRS
DRAWN BY	RLR	PLANS CK'D.	JRS
OVERLAY PLAN			SHEET 1 OF 1

ITEM NUMBER	BID ITEM	UNIT	TOTAL
509.0301	PREPARATION DECKS TYPE 1	SY	24
509.0302	PREPARATION DECKS TYPE 2	SY	12
509.2000	FULL-DEPTH DECK REPAIR	SY	3
509.5100.S	POLYMER OVERLAY	SY	395
SPV.0035.02	CONCRETE MASONRY DECK PATCHING	CY	2.9
SPV.0090.01	SAWING PAVEMENT DECK PREPARATION AREAS	LF	258

* QUANTITY LISTED IS AN ESTIMATE BASED ON THE CONDITION MAPS AND QUANTITY ESTIMATES FOR DECK REPAIRS PROVIDED BY INFRASENSE INC. THE CONTRACTOR SHALL COORDINATE THE FIELD IDENTIFICATION OF ALL DECK REPAIR LOCATIONS WITH THE ENGINEER.

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THIS PROJECT WILL REHABILITATE THE EXISTING STRUCTURE, B-58-70, A SINGLE SPAN, 63' PRESTRESSED CONCRETE GIRDER BRIDGE SET ON CONCRETE SILL ABUTMENTS.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE NOT SHOWN ON THE ROAD PLANS.

APPLY POLYMER OVERLAY TO DECK SURFACE AND CONCRETE APPROACH
SLABS.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAWCUT.

PREPARATION DECK TYPE 1, PREPARATION DECKS TYPE 2 AND FULL-DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY DECK PATCHING".

LIVE LOAD:

DESIGN LOADING: HS20
INVENTORY RATING : HS23
OPERATIONAL RATING : HS38
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

TRAFFIC DATA:

A.A.D.T. (2022) = 10,400
A.A.D.T. (2042) = 13,900

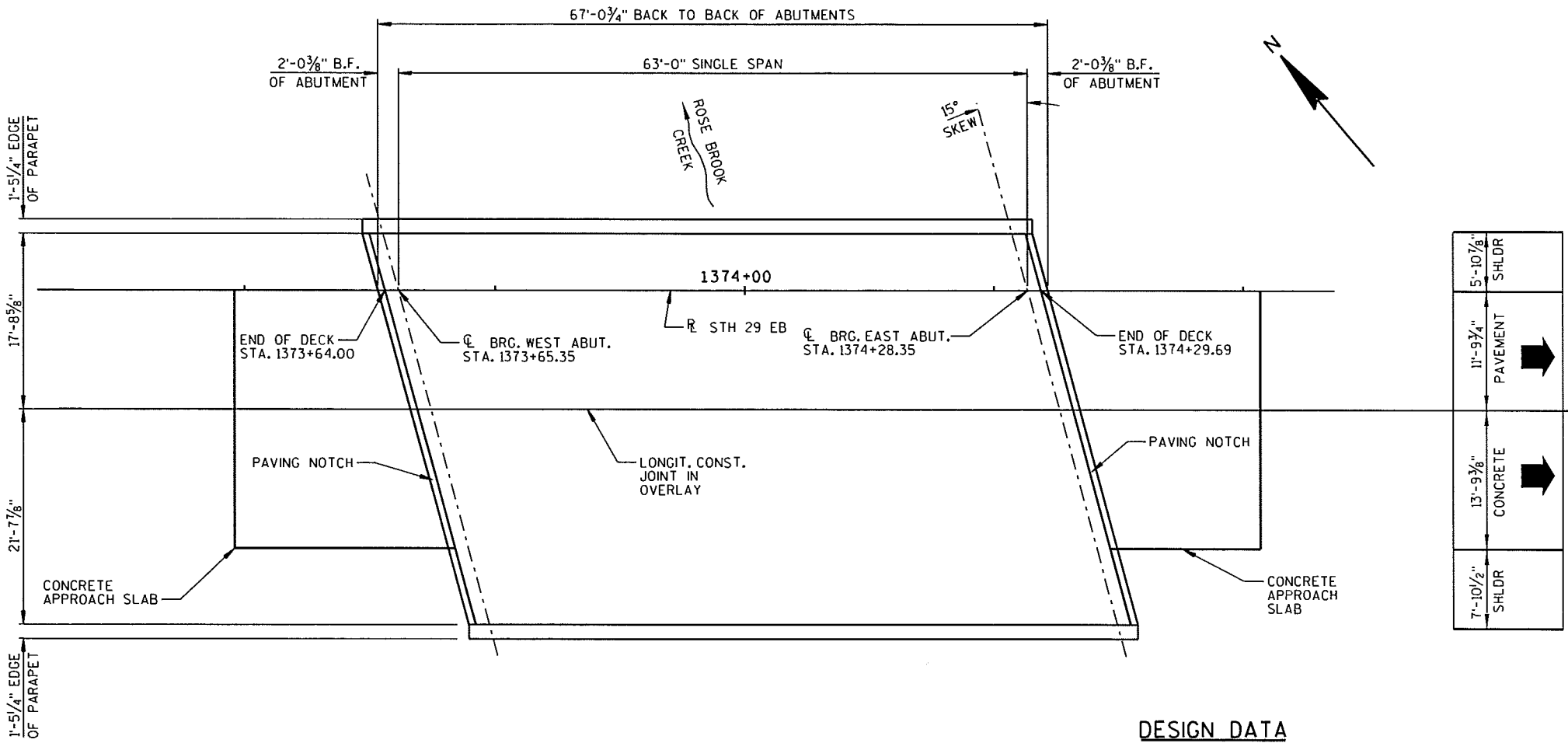
MATERIAL PROPERTIES:

CONCRETE MASONRY-DECK PATCHING — $f'_c = 4,000$ P.S.I.

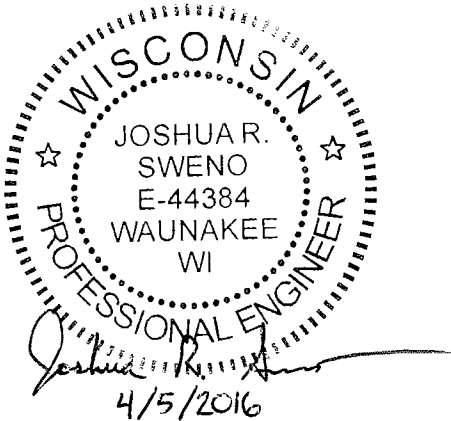
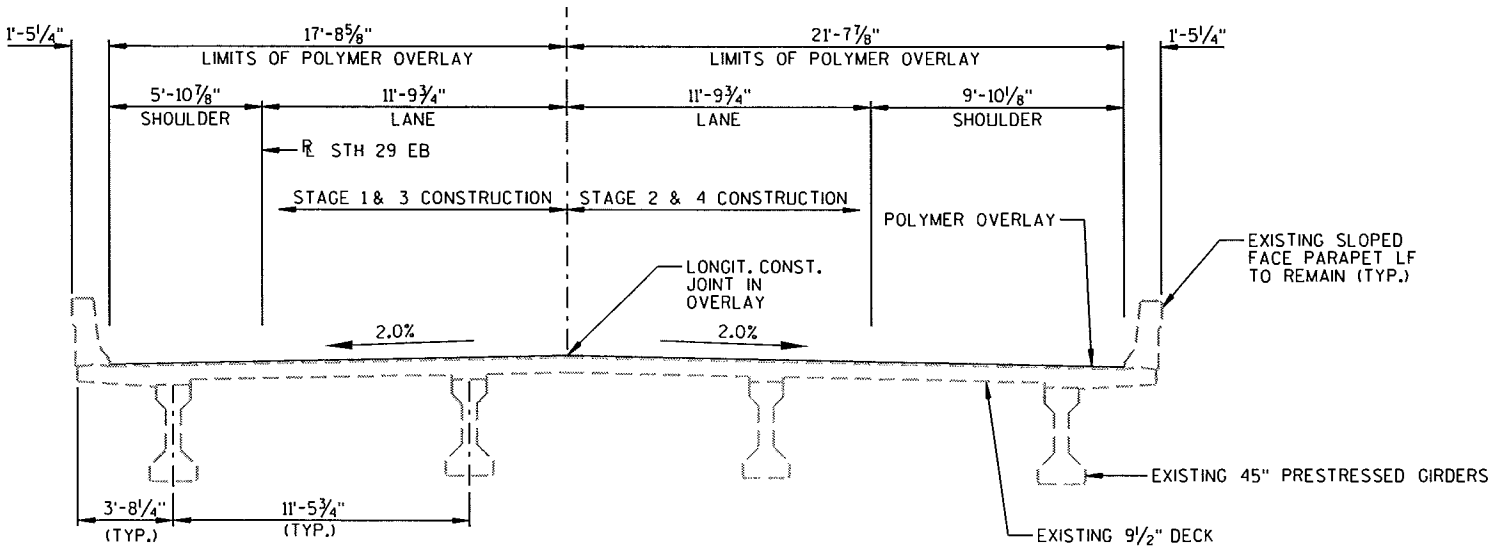
LIST OF DRAWINGS

1. OVERLAY PLAN

(REHAB - POLYMER OVERLAY ON EXISTING SINGLE SPAN PRESTRESSED CONCRETE GIRDER)




(LOOKING EAST)



DESIGN CONTACT:
JOSHUA SWENO
(608) 355-8852

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608) 266-8489

NO.	DATE	REVISION	BY
		TRANSPORTATION • MUNICIPAL DEVELOPMENT • ENVIRONMENTAL	
PROFESSIONAL SERVICES		1220 South Boulevard Baraboo, WI 53913 608-356-2771 1-800-362-4505 Fax: 608-356-2770	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		05/09/16	
ACCEPTED <i>William C. Diehn</i> ^{SOR} CHIEF STRUCTURES DESIGN ENGINEER	DATE		
STRUCTURE B-58-70			
5TH 20 EAST BOUND OVER ROSE BROOK CREEK			
COUNTY	SHAWANO	TOWN/CITY/VILLAGE BELLE PLAINE	
DESIGN SPEC. REHABILITATION - N/A			
DESIGNED BY	JAS	DESIGN CK'D.	JRS
DRAWN BY		RLR	PLANS CK'D. JRS
OVERLAY PLAN		SHEET 1 OF 1	

ITEM NUMBER	BID ITEM	UNIT	TOTAL
509.0301	PREPARATION DECKS TYPE 1	SY	20
509.0302	PREPARATION DECKS TYPE 2	SY	10
509.2000	FULL-DEPTH DECK REPAIR	SY	2
509.5100.5	POLYMER OVERLAY	SY	395
SPV.0035.02	CONCRETE MASONRY DECK PATCHING	CY	2.6
SPV.0090.01	SAWING PAVEMENT DECK PREPARATION AREAS	LF	185

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THIS PROJECT WILL REHABILITATE THE EXISTING STRUCTURE, B-58-71, A SINGLE SPAN, 63' PRESTRESSED CONCRETE GIRDER BRIDGE SET ON CONCRETE SILL ABUTMENTS.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE NOT SHOWN ON THE ROAD PLANS.

APPLY POLYMER OVERLAY TO DECK SURFACE AND CONCRETE APPROACH
SLABS.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAWCUT.

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2 AND FULL-DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY DECK PATCHING".

LIVE LOAD:

DESIGN LOADING: HS20
INVENTORY RATING : HS23
OPERATIONAL RATING : HS38
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

TRAFFIC DATA:

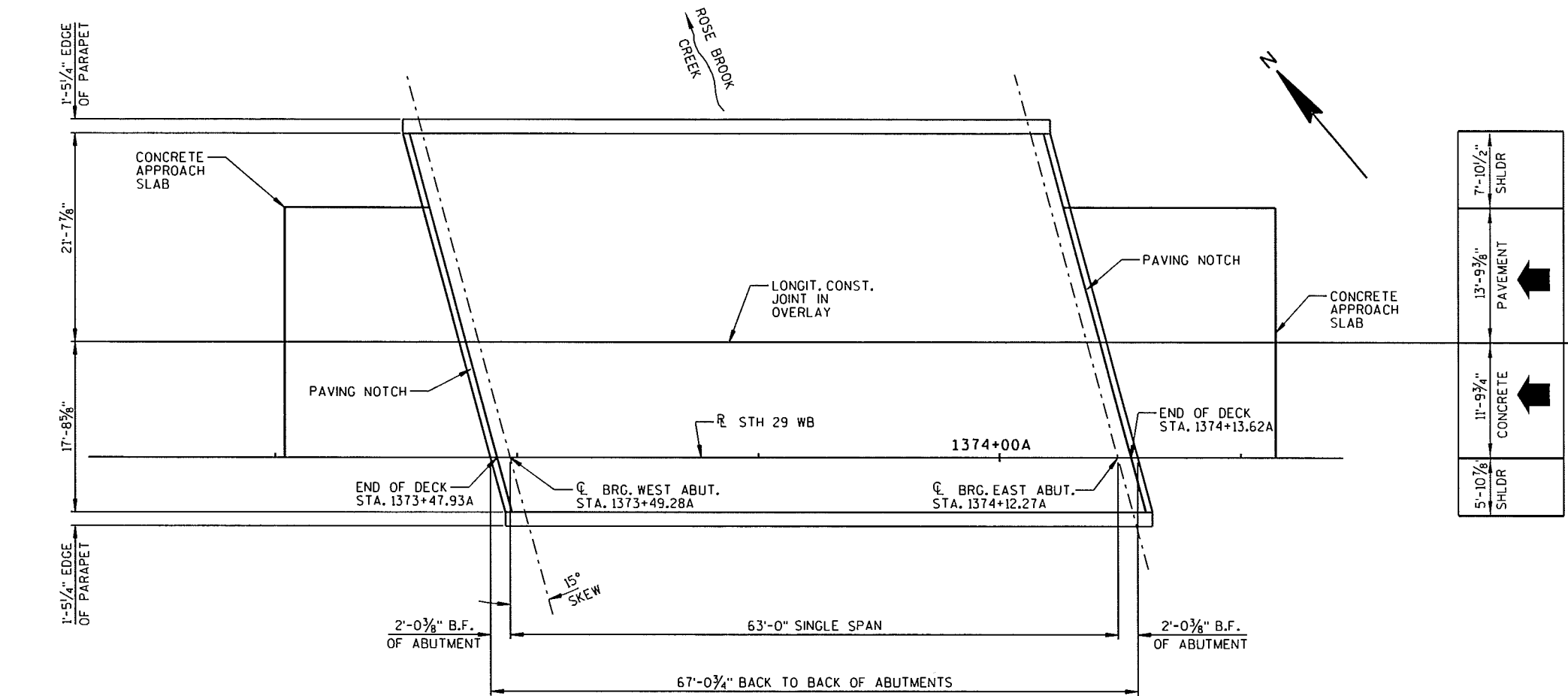
A.A.D.T. (2022) = 10,400
A.A.D.T. (2042) = 13,900

MATERIAL PROPERTIES:

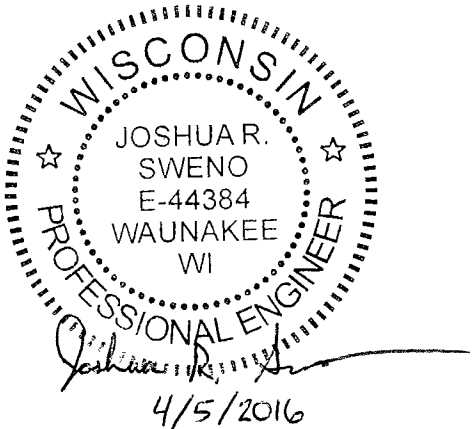
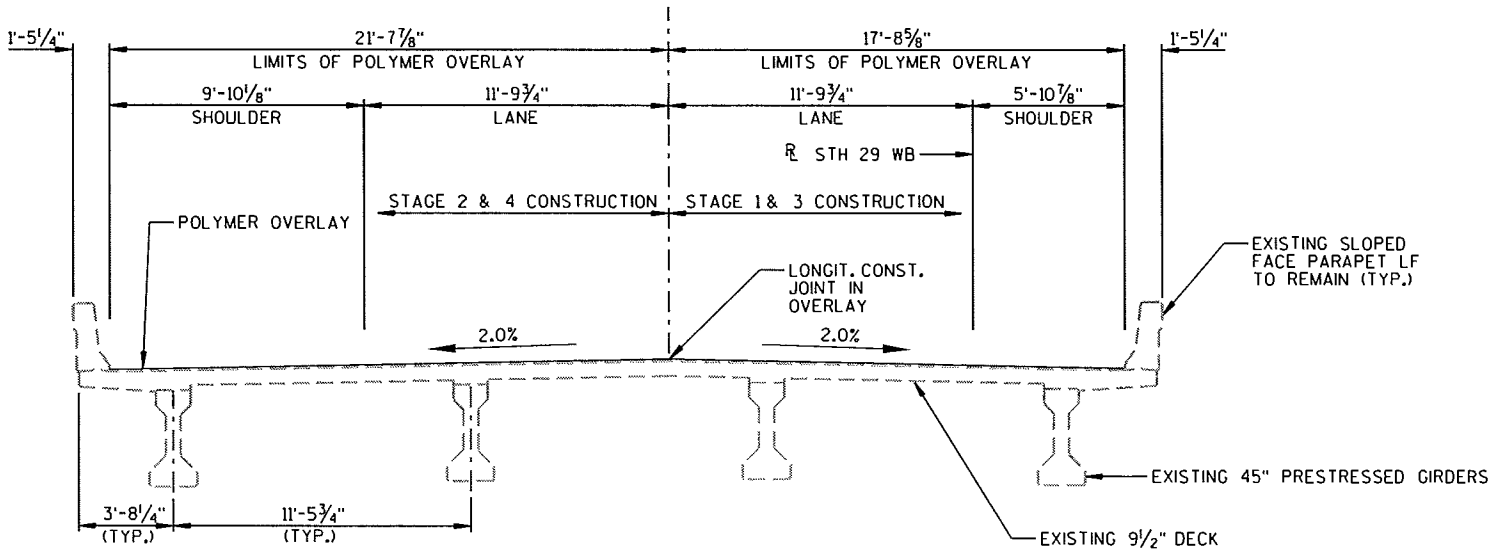
CONCRETE MASONRY-DECK PATCHING— $f'_c = 4,000$ P.S.I.

1. OVERLAY PLAN

(REHAB - POLYMER OVERLAY ON EXISTING SINGLE SPAN PRESTRESSED CONCRETE GIRDER)



CROSS SECTION THRU ROADWAY
(LOOKING EAST)



DESIGN CONTACT:
JOSHUA SWENO
(608) 355-8852

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608) 266-8489

NO.	DATE	REVISION	BY
MSA PROFESSIONAL SERVICES		TRANSPORTATION • MUNICIPAL DEVELOPMENT • ENVIRONMENTAL 1230 South Boulevard Baraboo, WI 53913 608-356-2771 1-800-362-4505 Fax: 608-356-2770	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION		05/03/16	
ACCEPTED	<i>William C. Dineen</i> SDR CHIEF STRUCTURES DESIGN ENGINEER	DATE	
STRUCTURE B-58-71			
5TH WEST BOUND OVER ROSE BROOK CREEK			
COUNTY	SCHAWANO	TOWN/CITY/VILLAGE	BELLE PLAINE
DESIGN SPEC. REHABILITATION - N/A			
DESIGNED BY	JAS	DESIGN CK'D.	JRS
DRAWN BY	RLR	PLANS CK'D.	JRS
OVERLAY PLAN		SHEET 1 OF 1	

ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	TOTAL
* 509.0301	PREPARATION DECKS TYPE 1	SY	104
* 509.0302	PREPARATION DECKS TYPE 2	SY	52
* 509.2000	FULL-DEPTH DECK REPAIR	SY	11
509.5100.S	POLYMER OVERLAY	SY	3010
SPV.0035.02	CONCRETE MASONRY DECK PATCHING	CY	11.1
SPV.0090.01	SAWING PAVEMENT DECK PREPARATION AREAS	LF	595

* QUANTITY LISTED IS AN ESTIMATE BASED ON THE CONDITION MAPS AND QUANTITY ESTIMATES FOR DECK REPAIRS PROVIDED BY INFRASENSE INC. THE CONTRACTOR SHALL COORDINATE THE FIELD IDENTIFICATION OF ALL DECK REPAIR LOCATIONS WITH THE ENGINEER.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THIS PROJECT WILL REHABILITATE THE EXISTING STRUCTURE, B-58-74, A FOUR SPAN, 535.16' PRESTRESSED CONCRETE GIRDER BRIDGE SET ON CONCRETE SILL ABUTMENTS AND HAMMERHEAD PIERS.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE NOT SHOWN ON THE ROAD PLANS.

APPLY POLYMER OVERLAY TO DECK SURFACE AND CONCRETE APPROACH SLABS.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAWCUT.

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2 AND FULL-DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY DECK PATCHING".

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS20
INVENTORY RATING : HS25
OPERATIONAL RATING : HS44
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

TRAFFIC DATA:

A.A.D.T. (2022) = 10,800
A.A.D.T. (2042) = 12,700

MATERIAL PROPERTIES:

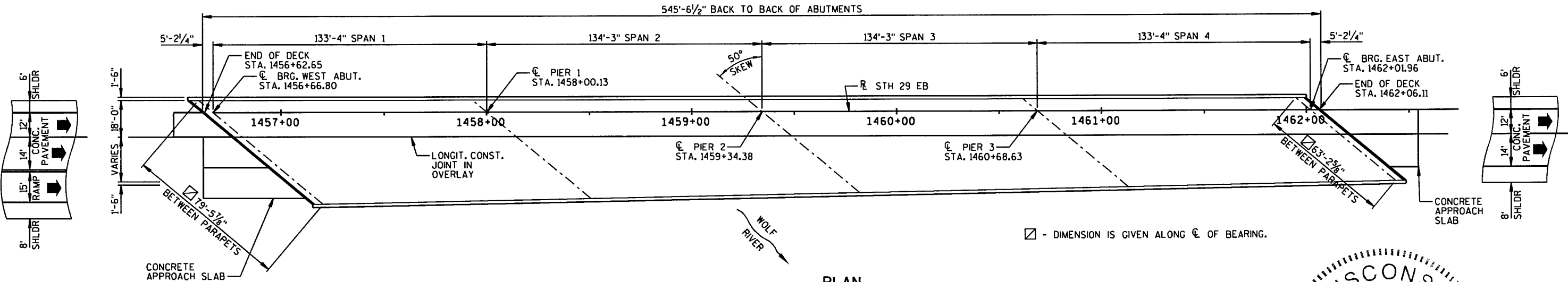
CONCRETE MASONRY-DECK PATCHING — f'c = 4,000 P.S.I.

LIST OF DRAWINGS

1. OVERLAY PLAN

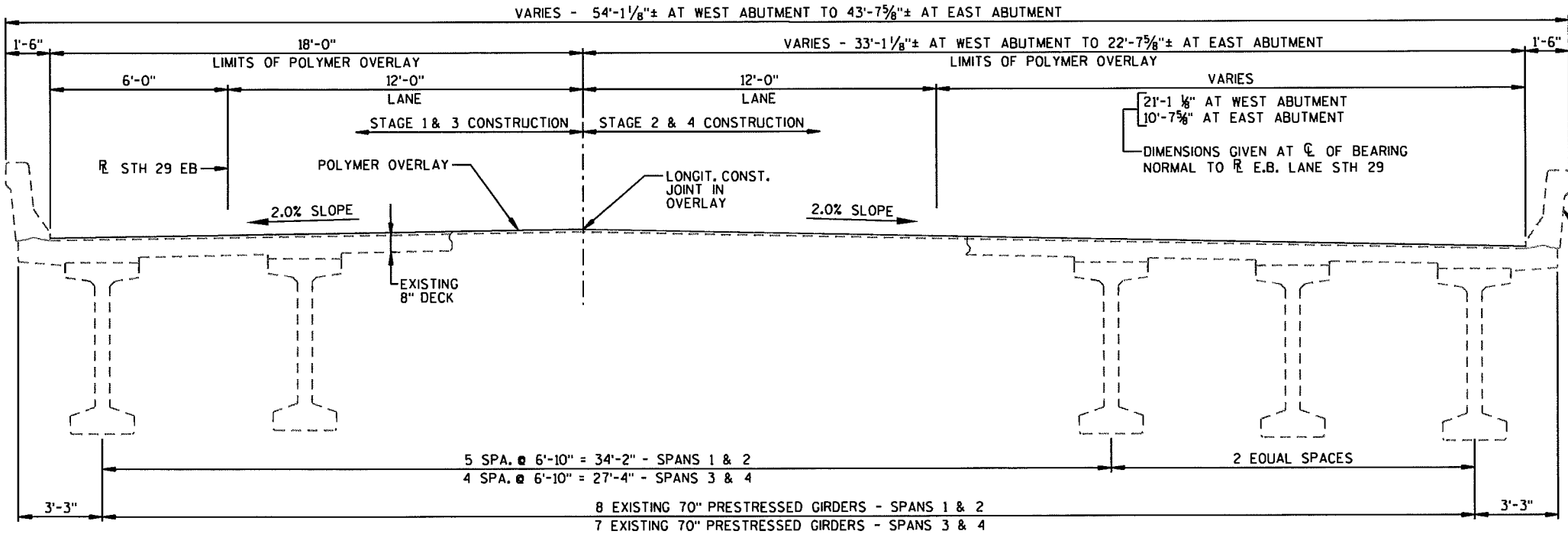
STATE PROJECT NUMBER

1058-24-62



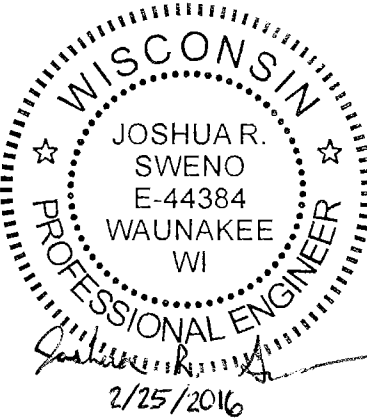
PLAN

(REHAB - POLYMER OVERLAY ON EXISTING FOUR SPAN PRESTRESSED CONCRETE GIRDER)



CROSS SECTION THRU ROADWAY

(LOOKING EAST)



EXISTING SLOPED FACE PARAPET B TO REMAIN (TYP.)

DESIGN CONTACT:
JOSHUA SWENO
(608) 355-8852

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608) 266-8489

NO.	DATE	REVISION	BY
MSA TRANSPORTATION • MUNICIPAL DEVELOPMENT • ENVIRONMENTAL 1230 South Boulevard Baraboo, WI 53913 608-356-2771 1-800-362-4505 Fax: 608-356-2770			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ACCEPTED <i>William C. Dreher</i> 05/09/16 CHIEF STRUCTURES DESIGN ENGINEER DATE			
STRUCTURE B-58-74			
STH 29 EAST BOUND OVER WOLF RIVER			
COUNTY	SHAWANO	TOWN/CTF/VILLAGE	WAUKECHON
DESIGN SPEC.	REHABILITATION - N/A		
DESIGNED BY	JAS	DESIGN CK'D.	JRS
DRAWN BY	RLR	PLANS CK'D.	JRS
OVERLAY PLAN			SHEET 1 OF 1

ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	TOTAL
* 509.0301	PREPARATION DECKS TYPE 1	SY	71
* 509.0302	PREPARATION DECKS TYPE 2	SY	36
* 509.2000	FULL-DEPTH DECK REPAIR	SY	8
509.5100.5	POLYMER OVERLAY	SY	2595
SPV.0035.02	CONCRETE MASONRY DECK PATCHING	CY	7.5
SPV.0090.01	SAWING PAVEMENT DECK PREPARATION AREAS	LF	545

* QUANTITY LISTED IS AN ESTIMATE BASED ON THE CONDITION MAPS AND QUANTITY ESTIMATES FOR DECK REPAIRS PROVIDED BY INFRASENSE INC. THE CONTRACTOR SHALL COORDINATE THE FIELD IDENTIFICATION OF ALL DECK REPAIR LOCATIONS WITH THE ENGINEER.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THIS PROJECT WILL REHABILITATE THE EXISTING STRUCTURE, B-58-75, A FOUR SPAN, 535.16' PRESTRESSED CONCRETE GIRDER BRIDGE SET ON CONCRETE SILL ABUTMENTS AND HAMMERHEAD PIERS.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE NOT SHOWN ON THE ROAD PLANS.

APPLY POLYMER OVERLAY TO DECK SURFACE AND CONCRETE APPROACH SLABS.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAWCUT.

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2 AND FULL-DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY DECK PATCHING".

DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HS20
INVENTORY RATING : HS23
OPERATIONAL RATING : HS41
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

TRAFFIC DATA:
A.A.D.T. (2022) = 10,800
A.A.D.T. (2042) = 12,700

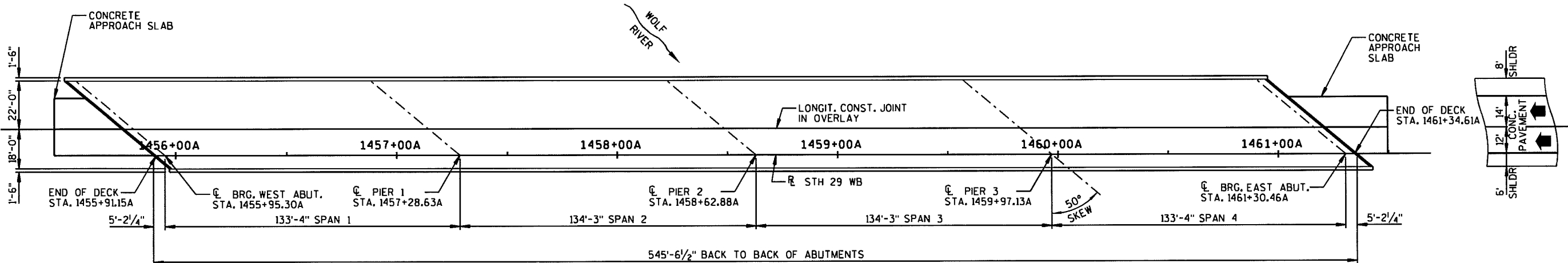
MATERIAL PROPERTIES:
CONCRETE MASONRY-DECK PATCHING—f'c = 4,000 P.S.I.

LIST OF DRAWINGS

1. OVERLAY PLAN

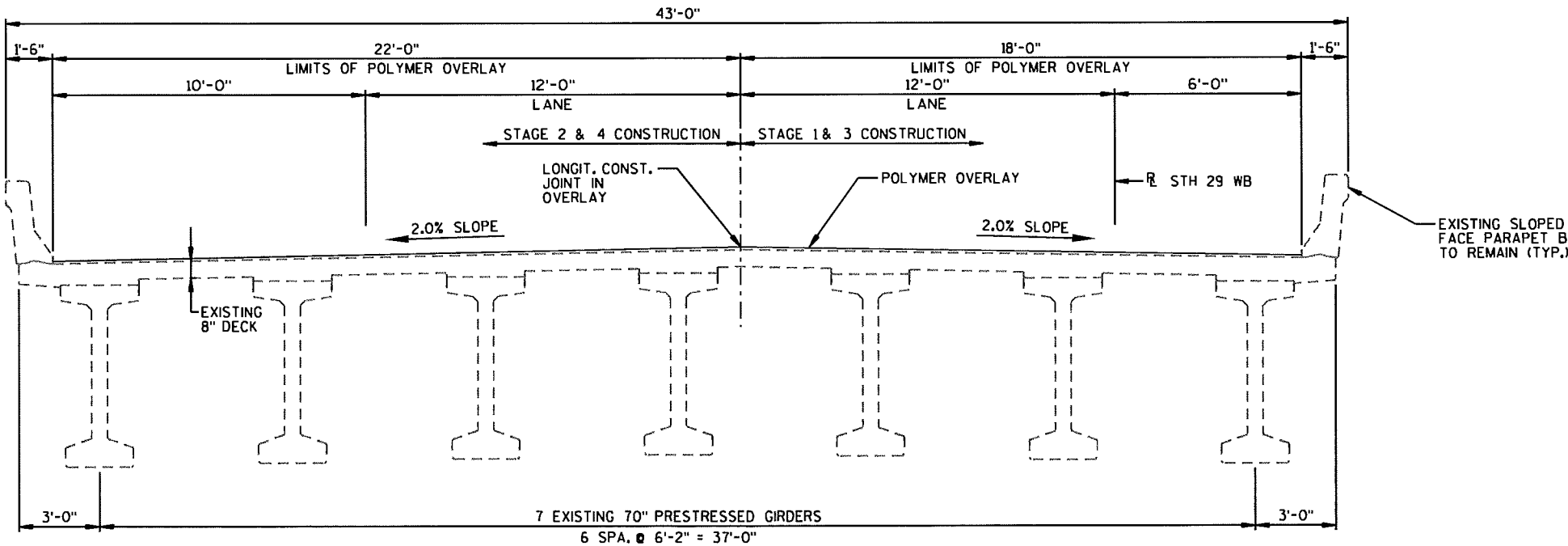
STATE PROJECT NUMBER

1058-24-62



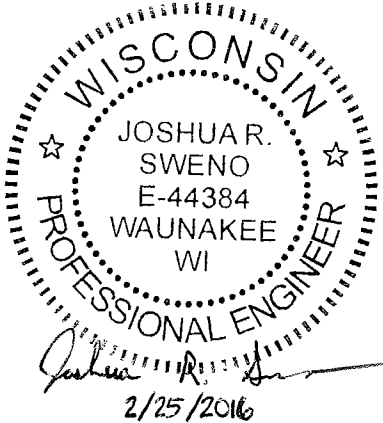
PLAN

(REHAB - POLYMER OVERLAY ON EXISTING FOUR SPAN PRESTRESSED CONCRETE GIRDER)



CROSS SECTION THRU ROADWAY

(LOOKING EAST)



DESIGN CONTACT:
JOSHUA SWENO
(608) 355-8852

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608) 266-8489

NO.	DATE	REVISION	BY
MSA TRANSPORTATION • MUNICIPAL DEVELOPMENT • ENVIRONMENTAL 1230 South Boulevard Baraboo, WI 53913 608-356-2771 1-800-362-4805 Fax: 608-356-2770			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ACCEPTED <i>William C. Dreher</i> 05/09/16 CHIEF STRUCTURES DESIGN ENGINEER DATE			
STRUCTURE B-58-75			
STH 29 WEST BOUND OVER WOLF RIVER			
COUNTY	SHAWANO	TOWN/CITY/VILLAGE	WAUKECHON
DESIGN SPEC. REHABILITATION - N/A			
DESIGNED BY	JAS	DESIGN CK'D.	JRS
DRAWN BY	RLR	PLANS CK'D.	JRS
OVERLAY PLAN			SHEET 1 OF 1

ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	TOTAL
* 509.0301	PREPARATION DECKS TYPE 1	SY	14
* 509.0302	PREPARATION DECKS TYPE 2	SY	7
* 509.2000	FULL-DEPTH DECK REPAIR	SY	2
509.5100.5	POLYMER OVERLAY	SY	436
SPV.0035.02	CONCRETE MASONRY DECK PATCHING	CY	1.5
SPV.0090.01	SAWING PAVEMENT DECK PREPARATION AREAS	LF	158

* QUANTITY LISTED IS AN ESTIMATE BASED ON THE CONDITION MAPS AND QUANTITY ESTIMATES FOR DECK REPAIRS PROVIDED BY INFRASENSE INC. THE CONTRACTOR SHALL COORDINATE THE FIELD IDENTIFICATION OF ALL DECK REPAIR LOCATIONS WITH THE ENGINEER.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THIS PROJECT WILL REHABILITATE THE EXISTING STRUCTURE, B-58-84, A SINGLE SPAN, 68.90' PRESTRESSED CONCRETE GIRDER BRIDGE SET ON CONCRETE SILL ABUTMENTS.

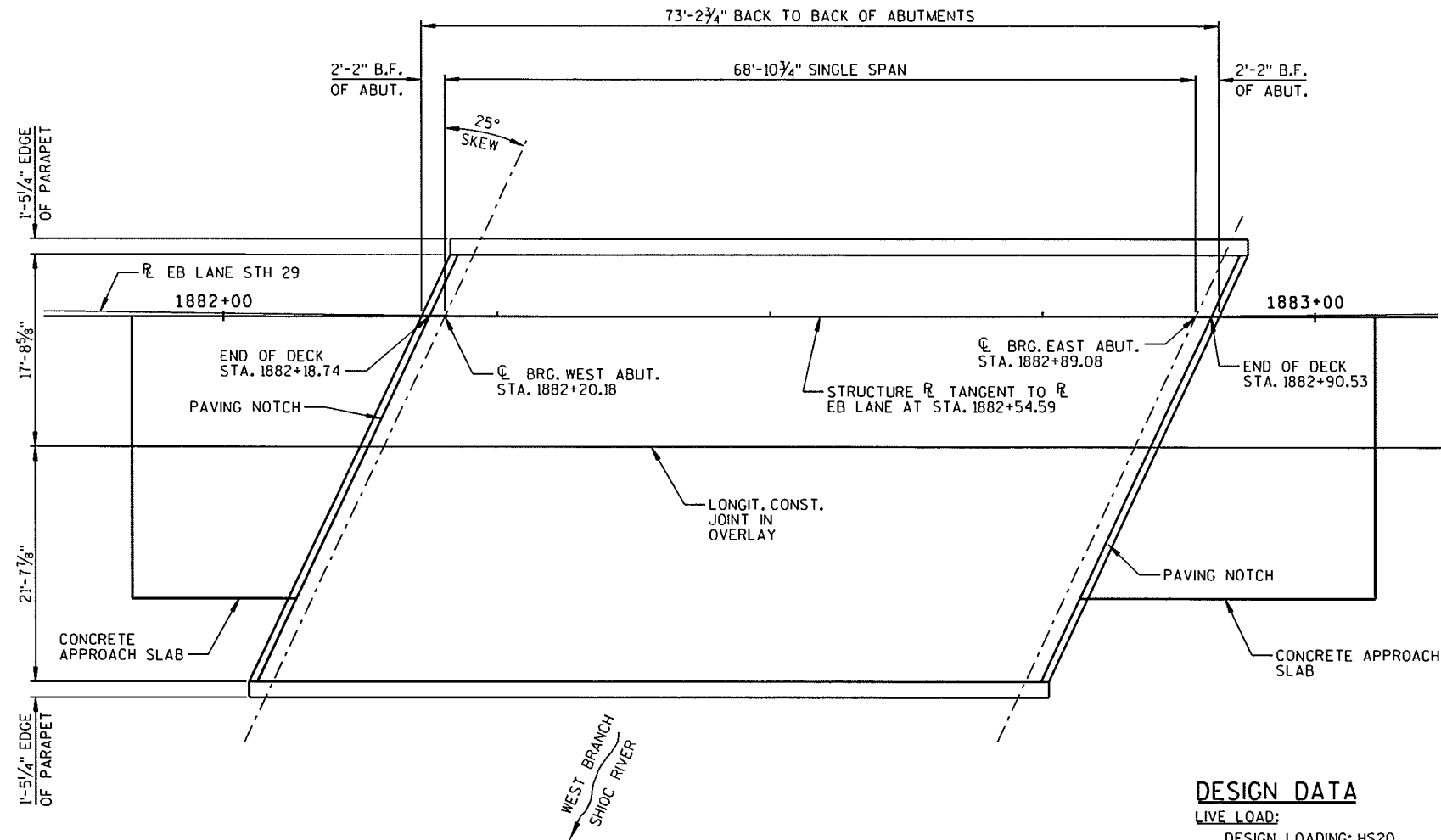
THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE NOT SHOWN ON THE ROAD PLANS.

APPLY POLYMER OVERLAY TO DECK SURFACE AND CONCRETE APPROACH SLABS.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAWCUT.

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2 AND FULL-DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY DECK PATCHING".



CURVE DATA

P.I. STA. = 1888+98.59
 $\Delta = 44^{\circ}03'05''$
 $D_s = 2^{\circ}27'38''$
 $T_s = 3090.531'$
 $L_s = 5873.540'$
 $R_s = 7639.455'$
 $S.E. = 2.6\%$

PLAN

(REHAB - POLYMER OVERLAY ON EXISTING SINGLE SPAN PRESTRESSED CONCRETE GIRDER)

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS20
INVENTORY RATING : HS23
OPERATIONAL RATING : HS35
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

TRAFFIC DATA:

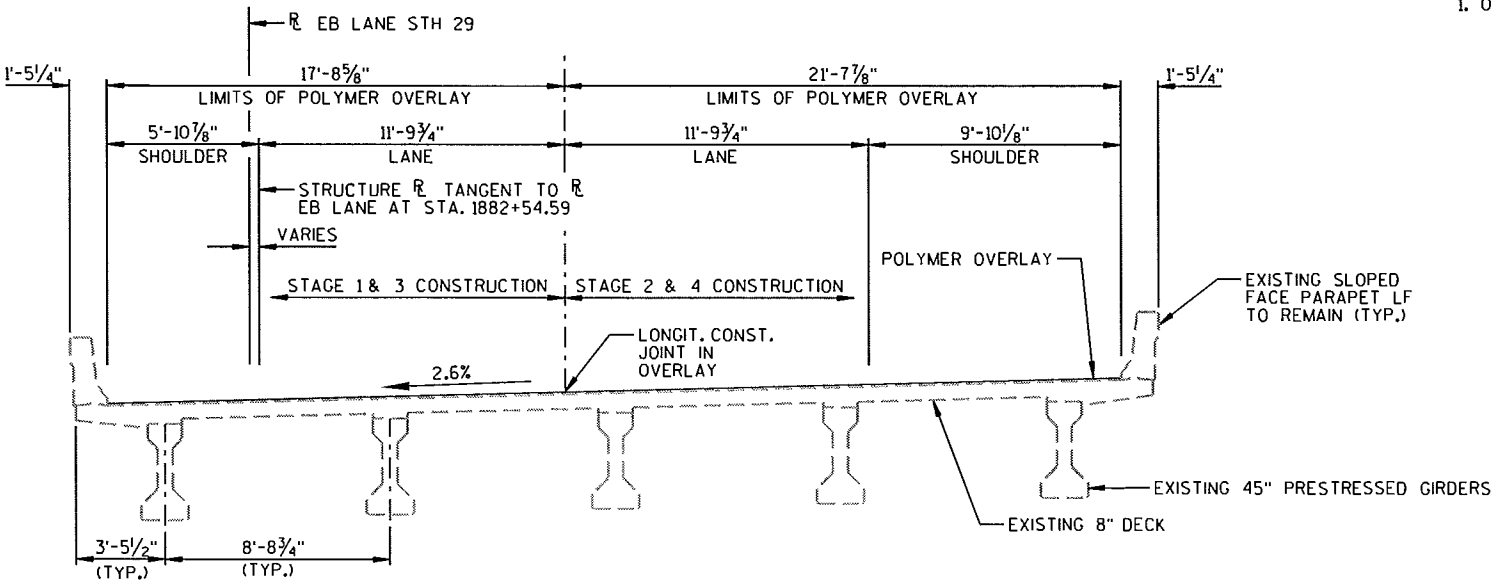
A.A.D.T. (2022) = 14,900
A.A.D.T. (2042) = 18,700

MATERIAL PROPERTIES:

CONCRETE MASONRY-DECK PATCHING — $f'c = 4,000$ P.S.I.

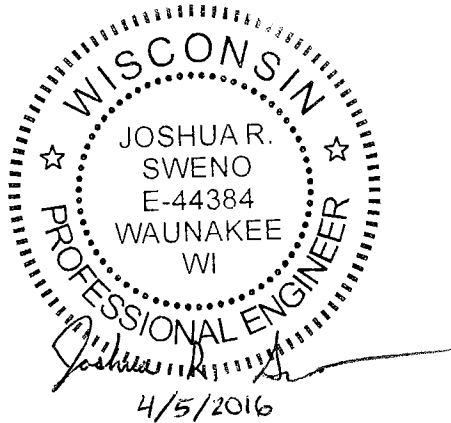
LIST OF DRAWINGS

1. OVERLAY PLAN



CROSS SECTION THRU ROADWAY

(LOOKING EAST)



DESIGN CONTACT:
JOSHUA SWENO
(608) 355-8852

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608) 266-8489

NO.	DATE	REVISION	BY
MSA TRANSPORTATION • MUNICIPAL DEVELOPMENT • ENVIRONMENTAL 1230 South Boulevard • Baraboo, WI 53913 608-356-2771 • 1-800-382-4505 • Fax: 608-356-2770			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ACCEPTED <i>William C. Dreher</i> 05/09/16 CHIEF STRUCTURES DESIGN ENGINEER DATE			
STRUCTURE B-58-84 STH 29 EAST BOUND OVER WEST BRANCH SHIOC RIVER COUNTY SHAWANO TOWN/CITY/VILLAGE HARTLAND			
DESIGN SPEC. REHABILITATION - N/A DESIGNED BY JAS CK'D. JRS DRAWN BY RLR PLANS CK'D. JRS			
OVERLAY PLAN			SHEET 1 OF 1

ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	TOTAL
* 509.0301	PREPARATION DECKS TYPE 1	SY	27
* 509.0302	PREPARATION DECKS TYPE 2	SY	14
* 509.2000	FULL-DEPTH DECK REPAIR	SY	3
509.5100.5	POLYMER OVERLAY	SY	437
SPV.0035.02	CONCRETE MASONRY DECK PATCHING	CY	3
SPV.0090.01	SAWING PAVEMENT DECK PREPARATION AREAS	LF	197

* QUANTITY LISTED IS AN ESTIMATE BASED ON THE CONDITION MAPS AND QUANTITY ESTIMATES FOR DECK REPAIRS PROVIDED BY INFRASENSE INC. THE CONTRACTOR SHALL COORDINATE THE FIELD IDENTIFICATION OF ALL DECK REPAIR LOCATIONS WITH THE ENGINEER.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THIS PROJECT WILL REHABILITATE THE EXISTING STRUCTURE, B-58-85 A SINGLE SPAN, 68.90' PRESTRESSED CONCRETE GIRDER BRIDGE SET ON CONCRETE SILL ABUTMENTS.

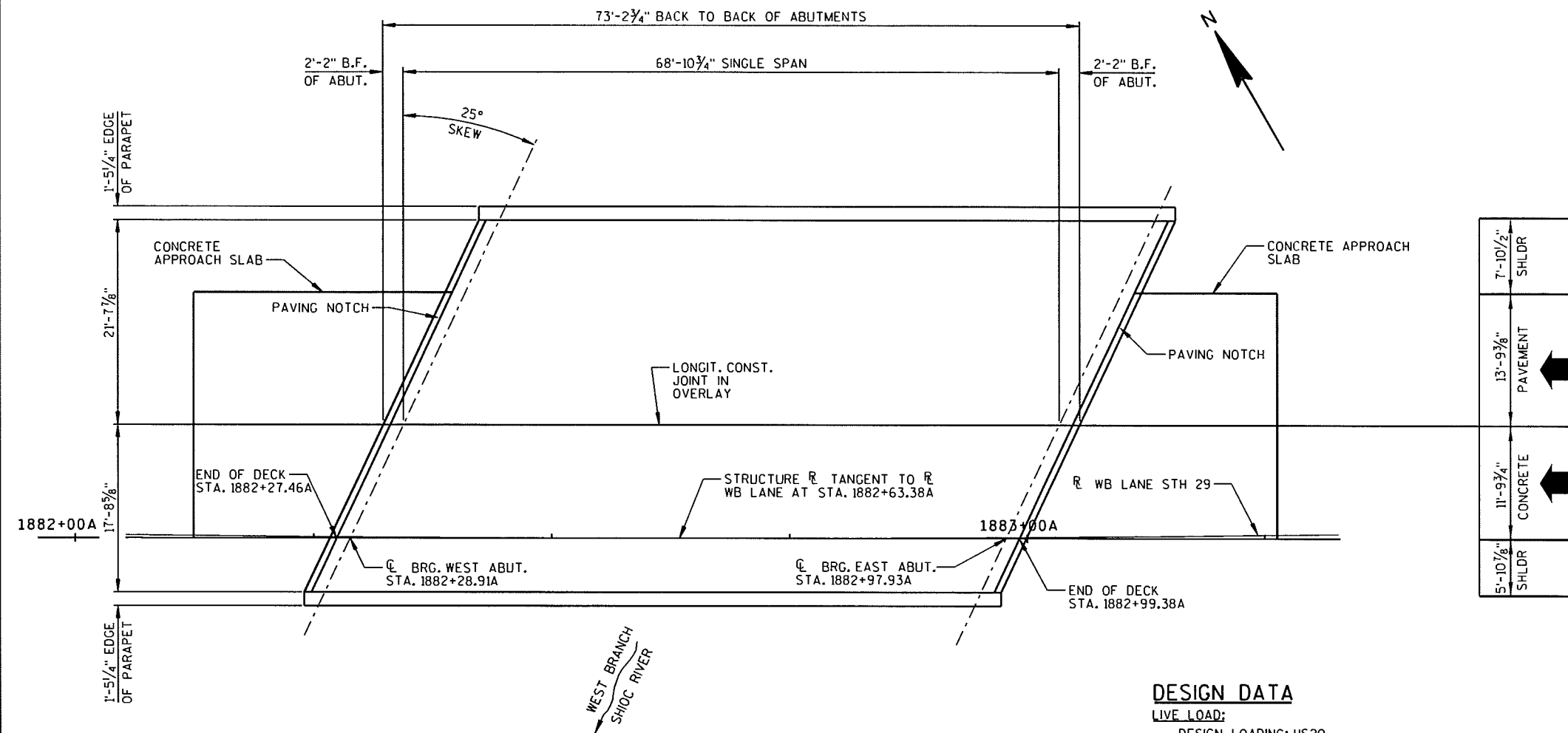
THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE NOT SHOWN ON THE ROAD PLANS.

APPLY POLYMER OVERLAY TO DECK SURFACE AND CONCRETE APPROACH SLABS.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAWCUT.

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2 AND FULL-DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY DECK PATCHING".



CURVE DATA

P.I. STA. = 1888+74.31A
 Δ = 44°03'05"
D = 2°28'48"
T = 3066.253'
L = 5827.402'
R = 7579.455'
S.E. = 2.6%

PLAN

(REHAB - POLYMER OVERLAY ON EXISTING SINGLE SPAN PRESTRESSED CONCRETE GIRDER)

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HS20
INVENTORY RATING : HS23
OPERATIONAL RATING : HS35
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

TRAFFIC DATA:

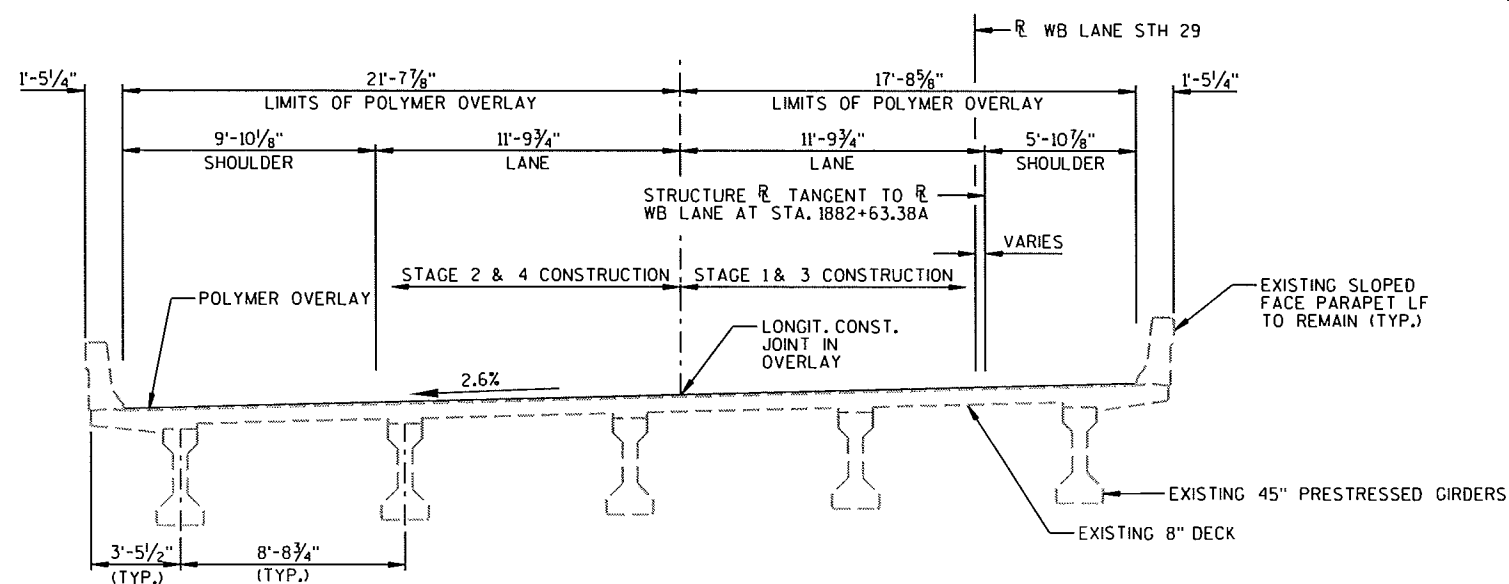
A.A.D.T. (2022) = 14,900
A.A.D.T. (2042) = 18,700

MATERIAL PROPERTIES:

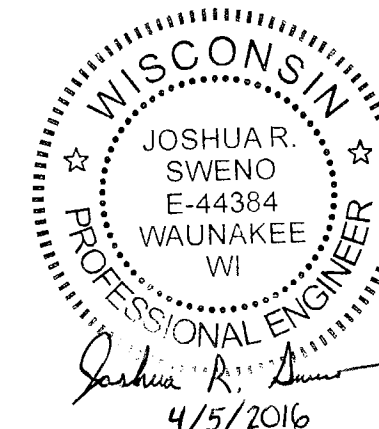
CONCRETE MASONRY-DECK PATCHING — f'c = 4,000 P.S.I.

LIST OF DRAWINGS

1. OVERLAY PLAN



CROSS SECTION THRU ROADWAY
(LOOKING EAST)



DESIGN CONTACT:
JOSHUA SWENO
(608) 355-8852

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608) 266-8489

NO.	DATE	REVISION	BY
MSA TRANSPORTATION • MUNICIPAL DEVELOPMENT • ENVIRONMENTAL 1230 South Boulevard Baraboo, WI 53913 608-356-2771 1-800-362-4505 Fax 608-356-2770			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ACCEPTED <i>William C. Dreher</i> FOR 05/09/16 CHIEF STRUCTURES DESIGN ENGINEER DATE			
STRUCTURE B-58-85 STH 29 WEST BOUND OVER WEST BRANCH SHIOK RIVER			
COUNTY	SHAWANO	TOWN/CITY/VILLAGE	HARTLAND
DESIGN SPEC.	REHABILITATION - N/A		
DESIGNED BY	JAS	DESIGN CK'D.	JRS
DRAWN BY	RLR	PLANS CK'D.	JRS
OVERLAY PLAN			SHEET 1 OF 1

ITEM NUMBER	BID ITEM	UNIT	TOTAL
509.0301	PREPARATION DECKS TYPE 1	SY	13
509.0302	PREPARATION DECKS TYPE 2	SY	7
509.2000	FULL-DEPTH DECK REPAIR	SY	2
509.5100.5	POLYMER OVERLAY	SY	481
SPV.0035.02	CONCRETE MASONRY DECK PATCHING	CY	1.3
SPV.0090.01	SAWING PAVEMENT DECK PREPARATION AREAS	LF	112

GENERAL NOTES

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE NOT SHOWN ON THE ROAD PLANS.

DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".

AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAWCUT.

PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2 AND FULL-DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY DECK PATCHING".

LIVE LOAD:

DESIGN LOADING: HS20
INVENTORY RATING : HS24
OPERATIONAL RATING : HS46
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 250 KIPS

TRAFFIC DATA:

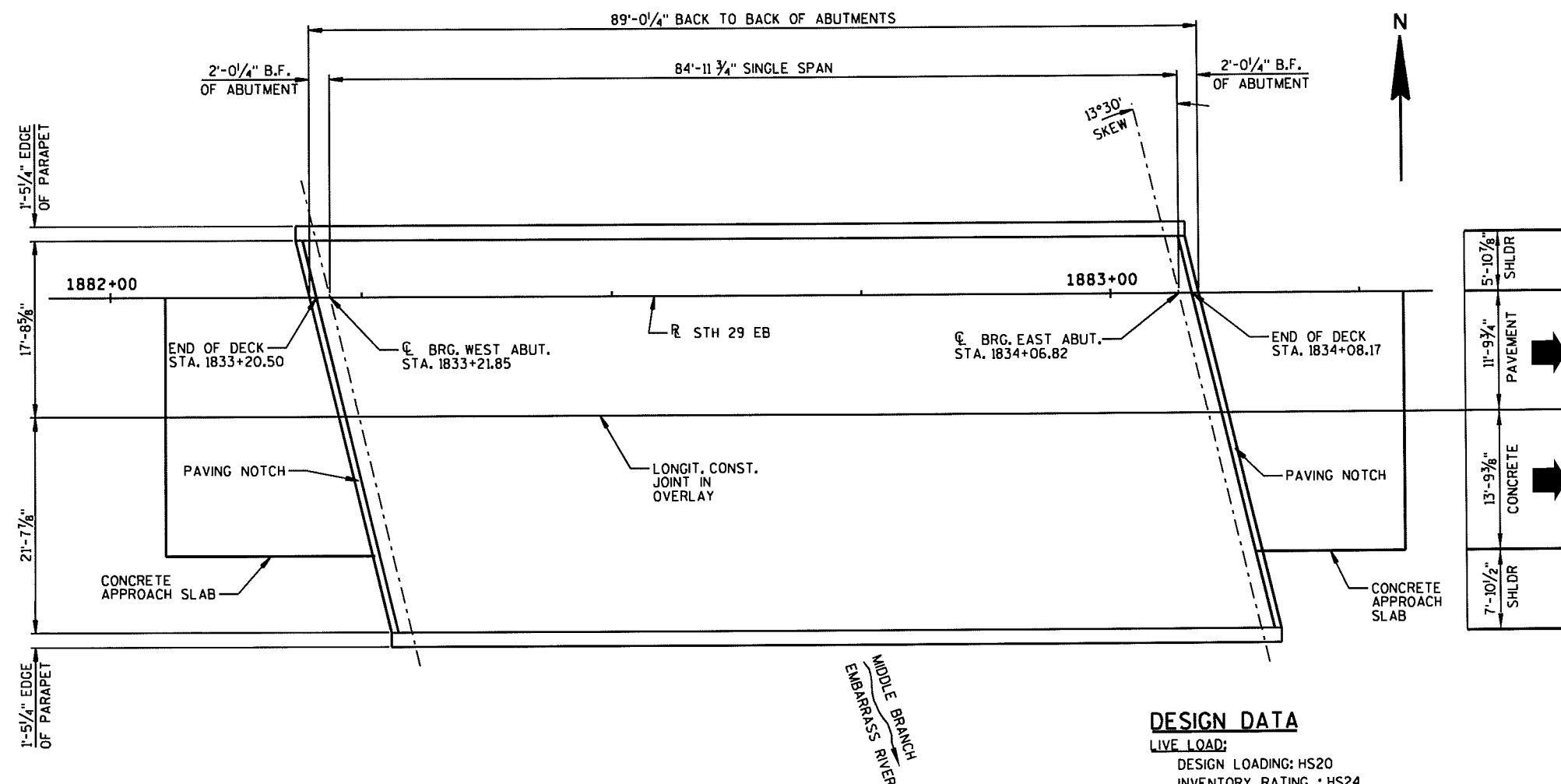
A.A.D.T. (2022) = 9,500
A.A.D.T. (2042) = 12,900

MATERIAL PROPERTIES:

CONCRETE MASONRY-DECK PATCHING— $f'_c = 4,000$ P.S.I.

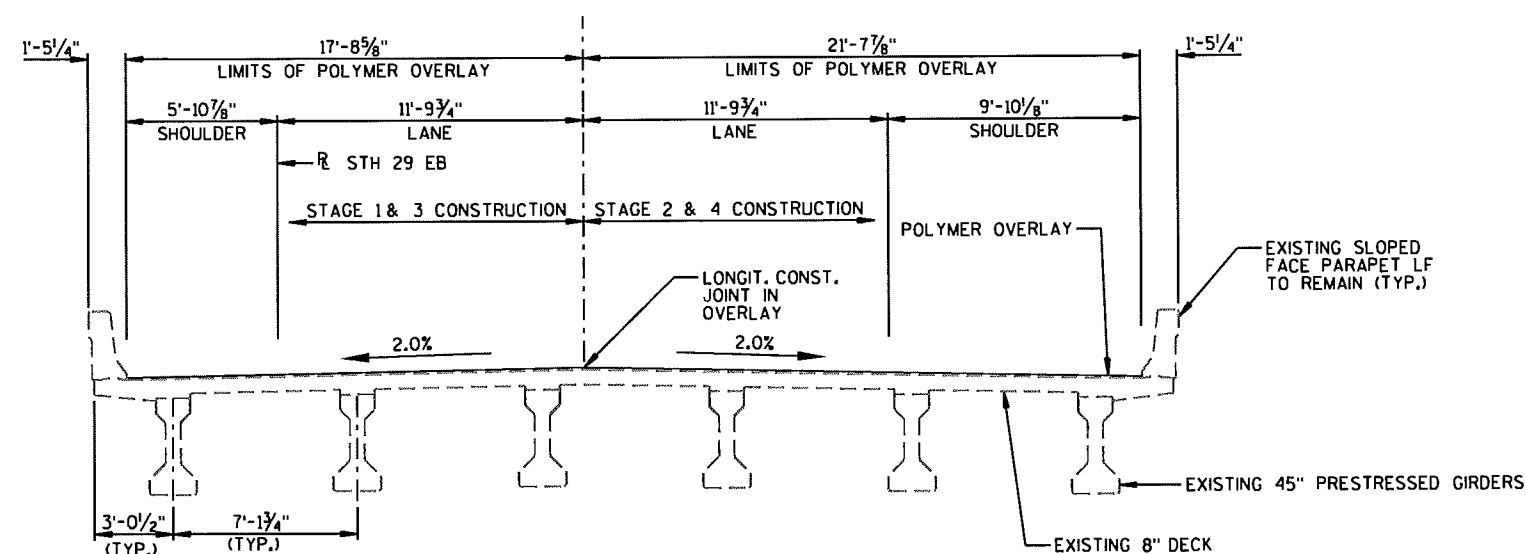
LIST OF DRAWINGS

1. OVERLAY PLAN



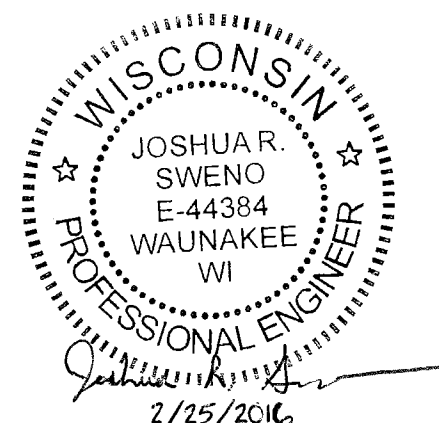
PLAN

(REHAB - POLYMER OVERLAY ON EXISTING SINGLE SPAN PRESTRESSED CONCRETE GIRDER)




CROSS SECTION THRU ROADWAY

(LOOKING EAST)



DESIGN CONTACT:
JOSHUA SWENO
(608) 355-8852

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608) 266-8489

NO.	DATE	REVISION	BY
		TRANSPORTATION • MUNICIPAL DEVELOPMENT • ENVIRONMENTAL 1230 South Boulevard Darabon, WI 53913 608-358-2771 1-800-362-4505 Fax: 608-358-277	
PROFESSIONAL SERVICES			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED <i>William C. Dehner</i> ^{SCR} CHIEF STRUCTURES DESIGN ENGINEER	05/09/1 DATE		
STRUCTURE		B-58-93	
5TH 2ND EAST BOUND OVER MIDDLE BRANCH EMBARRASS RIVER			
COUNTY SHAWANO		TOWN/CITY/VILLAGE MORRIS	
DESIGN SPEC. REHABILITATION - N/A			
DESIGNED BY JAS	DESIGN CK'D. JRS	DRAWN BY RLR	PLANS CK'D. JR
OVERLAY PLAN			SHEET 1 OF

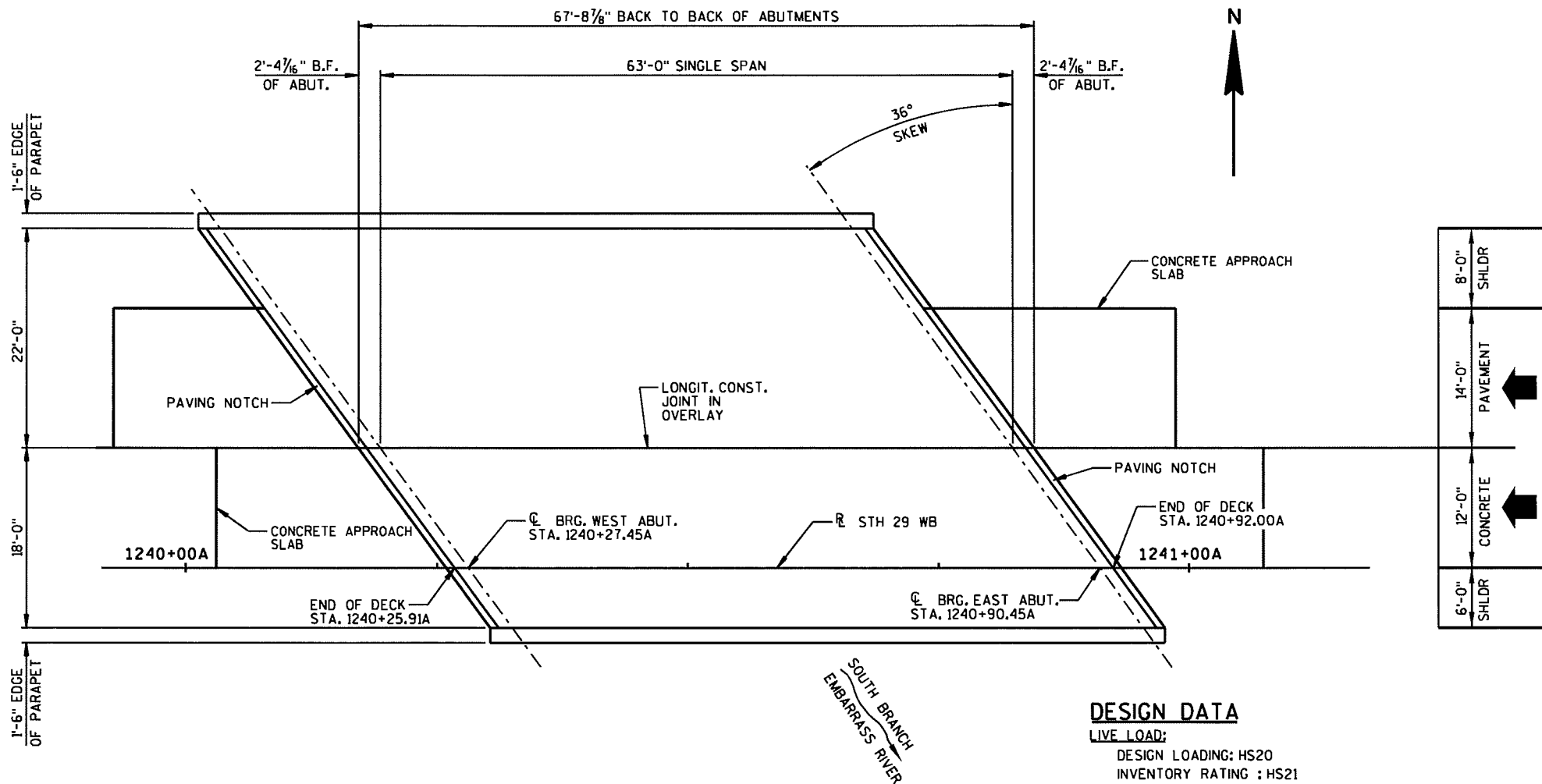
ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	TOTAL
* 509.0301	PREPARATION DECKS TYPE 1	SY	14
* 509.0302	PREPARATION DECKS TYPE 2	SY	7
* 509.2000	FULL-DEPTH DECK REPAIR	SY	2
509.5100.S	POLYMER OVERLAY	SY	408
SPV.0035.02	CONCRETE MASONRY DECK PATCHING	CY	1.5
SPV.0090.01	SAWING PAVEMENT DECK PREPARATION AREAS	LF	127

* QUANTITY LISTED IS AN ESTIMATE BASED ON THE CONDITION MAPS AND QUANTITY ESTIMATES FOR DECK REPAIRS PROVIDED BY INFRASENSE INC. THE CONTRACTOR SHALL COORDINATE THE FIELD IDENTIFICATION OF ALL DECK REPAIR LOCATIONS WITH THE ENGINEER.

GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.
- DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.
- THIS PROJECT WILL REHABILITATE THE EXISTING STRUCTURE, B-58-101, A SINGLE SPAN, 63' PRESTRESSED CONCRETE GIRDER BRIDGE SET ON CONCRETE SILL ABUTMENTS.
- THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE NOT SHOWN ON THE ROAD PLANS.
- APPLY POLYMER OVERLAY TO DECK SURFACE AND CONCRETE APPROACH SLABS.
- DECK SURFACE PREPARATION IS INCLUDED IN THE BID ITEM "POLYMER OVERLAY".
- AREAS OF "PREPARATION DECKS TYPE 1" SHALL BE DEFINED BY A SAWCUT.
- PREPARATION DECKS TYPE 1, PREPARATION DECKS TYPE 2 AND FULL-DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED BY THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY DECK PATCHING".



PLAN

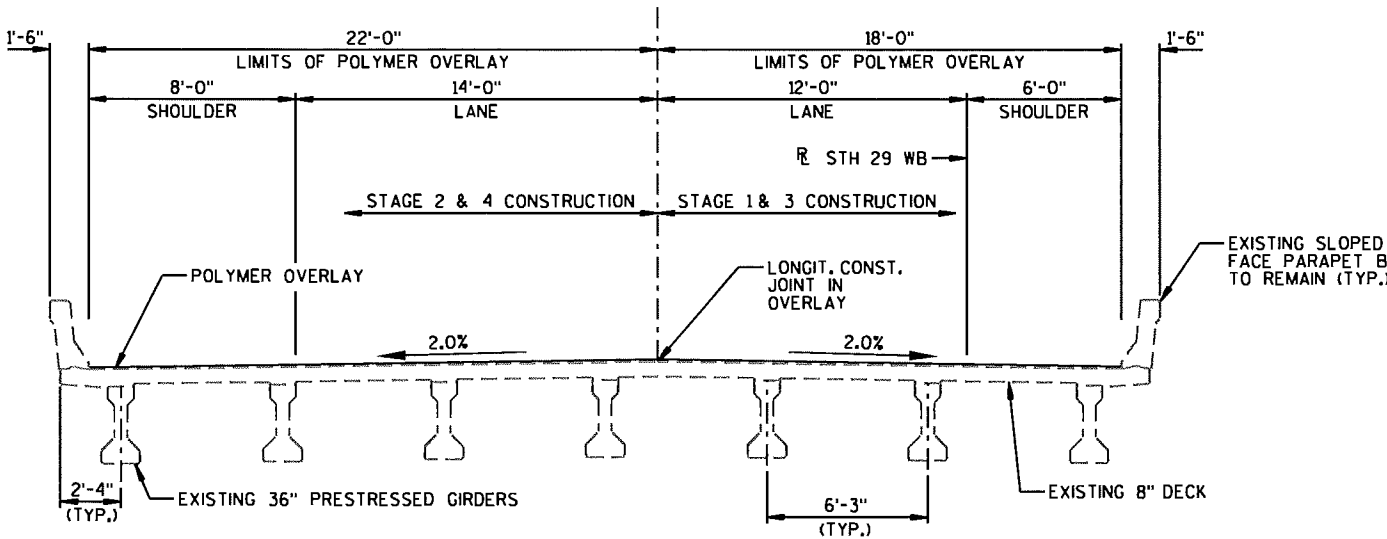
(REHAB - POLYMER OVERLAY ON EXISTING SINGLE SPAN PRESTRESSED CONCRETE GIRDER)

DESIGN DATA

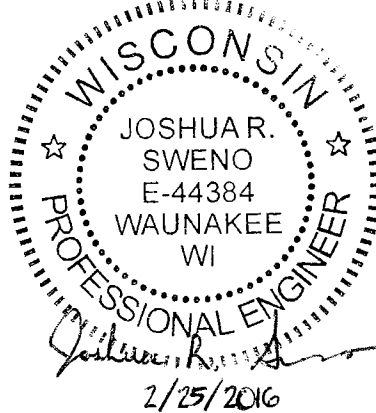
- LIVE LOAD:**
- DESIGN LOADING: HS20
 - INVENTORY RATING : HS21
 - OPERATIONAL RATING : HS36
 - WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 230 KIPS
- TRAFFIC DATA:**
- A.A.D.T. (2022) = 12,600
 - A.A.D.T. (2042) = 17,000
- MATERIAL PROPERTIES:**
- CONCRETE MASONRY-DECK PATCHING—f'c = 4,000 P.S.I.

LIST OF DRAWINGS

- 1. OVERLAY PLAN



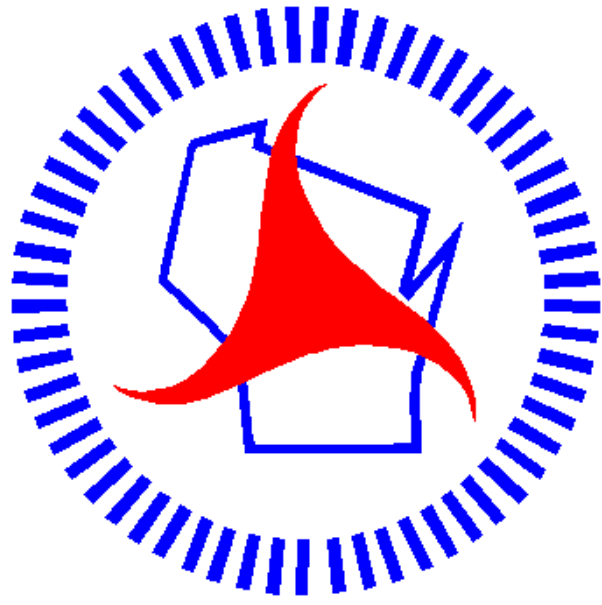
CROSS SECTION THRU ROADWAY
(LOOKING EAST)



DESIGN CONTACT:
JOSHUA SWENO
(608) 355-8852

BRIDGE OFFICE CONTACT:
WILLIAM DREHER
(608) 266-8489

NO.	DATE	REVISION	BY
MSA TRANSPORTATION • MUNICIPAL DEVELOPMENT • ENVIRONMENTAL 1230 South Boulevard • Baraboo, WI 53913 608-356-2771 1-800-382-1503 Fax: 608-356-2770			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ACCEPTED <i>William C. Dreher</i> 05/09/16 CHIEF STRUCTURES DESIGN ENGINEER DATE			
STRUCTURE B-58-101 STH 29 WEST BOUND OVER SOUTH BRANCH EMBARRASS RIVER			
COUNTY	SHAWANO	TOWN/CITY/VILLAGE	WITTENBERG
DESIGN SPEC. REHABILITATION - N/A			
DESIGNED BY	JAS	DESIGN CK'D.	JRS
DRAWN BY	RLR	PLANS CK'D.	JRS
OVERLAY PLAN			SHEET 1 OF 1



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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