

023

INDEX OF SHEETS
FOR INDEX OF SHEETS
SEE SHEET 2

07-12-2019 LETTING ITEM 023

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAP ROUTE 22 (IL-78) OVER ROCK RIVER
SECTION (16BR) BDR
BRIDGE REHABILITATION
S.N. 098-0100
PROJECT STP-THWT(429)
WHITESIDE COUNTY

D-92-078-18
C-92-022-19

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	116BR) BDR	WHITESIDE	27	1
ILLINOIS CONTRACT NO. 64N32				

D-92-078-18
C-92-022-19



NOTES:

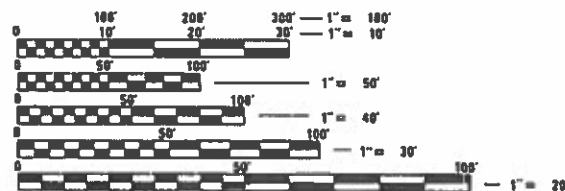
ALL BORROW WASTE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL CONTACT JULIE A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK AT 800-892-0123.

NO MATERIALS, EQUIPMENT, VEHICLES OR OTHER HAZARDS SHALL BE WITHIN 2'-0" OF THE TEMPORARY CONCRETE BARRIER. EQUIPMENT THAT IS ACTIVELY WORKING WITH 2'-0" OF THE BARRIER WALL MAY BE ALLOWED FOR A SHORT DURATION, IF APPROVED BY THE ENGINEER AND THERE IS NOT ANOTHER METHOD TO COMPLETE THE WORK.

TRAFFIC DATA:

FUNCTIONAL CLASSIFICATION
MINOR ARTERIAL
2017 ADT = 3,450
EST. TRUCK % = 10%



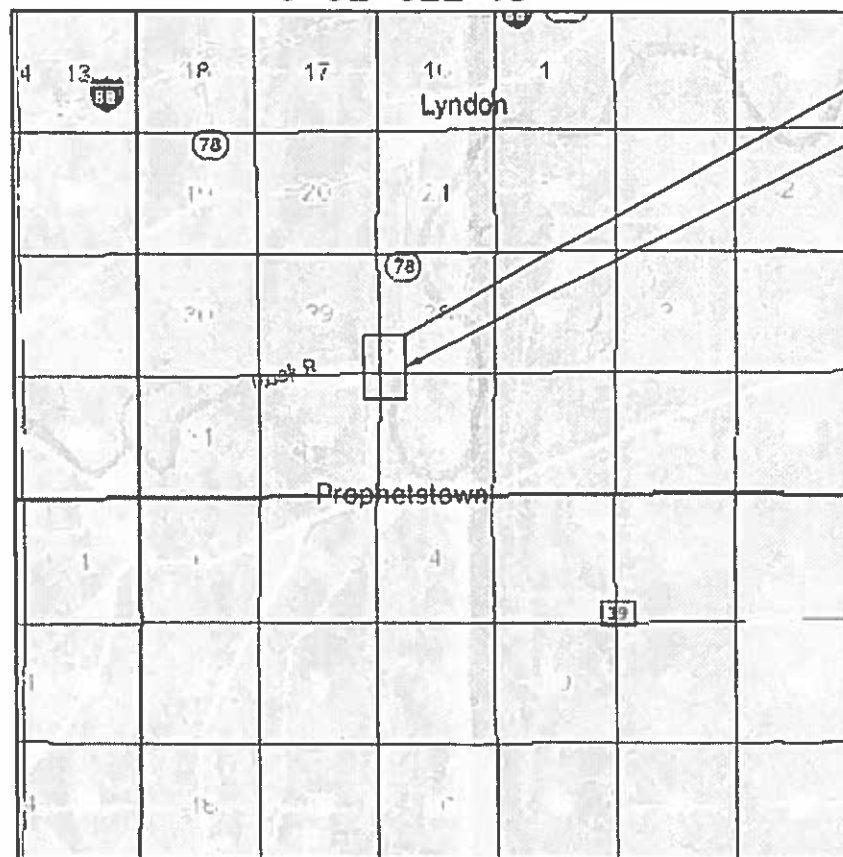
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: JUSTIN PATTISON, P.E. (312) 256-9090
PROJECT MANAGER: MAHMOUD ETEMADI, P.E. (815) 284-5359

CONTRACT NO. 64N32



PROJECT LIMITS

S.N. 098-0100

T20N



Nadiri R. Fakroddin



MICHAEL MILLER, P.E.
FOR DRAWINGS 5-18



LOCATION MAP R5E 4th PM
N.T.S.

GROSS LENGTH = 906 FT. = 0.17 MILE
NET LENGTH = 906 FT. = 0.17 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED May 22, 2019

James Ahmad
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 14, 2019

[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

June 14, 2019

[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES
- 3-4 SUMMARY OF QUANTITIES
- 5-18 MAINTENANCE OF TRAFFIC PLANS
- 19-27 STRUCTURE NO. 098-0100

HIGHWAY STANDARDS

- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5M) AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701321-17 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO CLASSIFICATION M-270 GR. 36, UNLESS OTHERWISE NOTED.

PLAN DIMENTIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

PRIOR TO POURING THE NEW CONCRETE DECK, ALL HEAVY OR LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES IN CONTACT WITH CONCRETE. TIGHTLY ADHERED PAINT MAY REMAIN UNLESS OTHERWISE NOTED. REMOVAL SHALL BE ACCOMPLISHED BY METHODS THAT WILL NOT DAMAGE THE STEEL AND THE COST WILL BE INCLUDED IN THE PAY ITEM CONCRETE REMOVAL.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

JOINT OPENINGS SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STD. SPECS. WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50° F.

CLEANING AND PAINTING OF THE EXISTING STRUCTURAL STEEL SHALL BE SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". ALL BEAMS, BEARINGS AND OTHER STRUCTURAL STEEL WITHIN 10 FT (MEASURED ALONG THE BEAM) OF EITHER SIDE OF DECK JOINTS SHALL BE CLEANED PER NEAR WHITE BLAST CLEANING - SSPC-SP10. THE EXTERIOR SURFACES AND BOTTOM OF THE BOTTOM FLANGE OF THE FASCIA BEAMS SHALL BE CLEANED PER COMMERCIAL GRADE POWER TOOL CLEANING-SSPC-SP15.

THE DESIGNATED AREAS CLEANED PER NEAR WHITE BLAST CLEANING AND PER COMMERCIAL GRADE POWER TOOL CLEANING SHALL BE PAINTED ACCORDING TO THE REQUIREMENTS OF PAINT SYSTEM 1 - OZ/E/U. THE COLOR OF THE FINAL FINISH COAT FOR ALL STEEL SURFACES SHALL BE BLUE, MUNSELL NO. 10B 3/6.

*CLEAN AND PAINT LIMITS FOR SUPERSTRUCTURE 10'-0" EITHER SIDE OF C_g OF JOINT BELOW THE DECK SURFACE (STRINGERS, DIAPHRAGMS, BEARINGS, GUSSET PLATES, GIRDERS AND CONNECTIONS).

MODULAR EXPANSION JOINT STEEL WHICH SHALL BE ASSHTO M 270 GRADE 50 PAID FOR UNDER MODULAR EXPANSION JOINT 6". SEE SPECIAL PROVISIONS.

NO FIELD WELDING IS PERMITTED EXCEPT AS SPECIFIED IN THE CONTRACT DOCUMENTS.

ANY CRACKS THAT CANNOT BE REMOVED BY GRINDING ¼ INCH DEEP SHALL BE IDENTIFIED AND REPORTED TO THE BUREAU OF BRIDGES AND STRUCTURES FOR FURTHER DISPOSITION. THE COST OF REMOVING WELDED ACCESSORIES, GRINDING AND INSPECTING WELD AREAS AND GRINDING CRACKS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

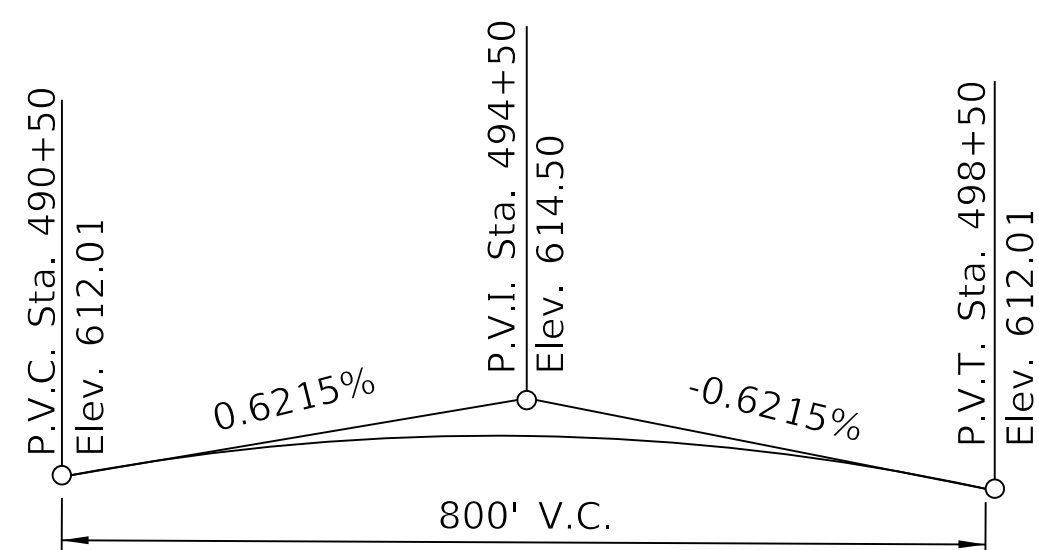
MODULAR EXPANSION JOINTS SHALL BE ASSEMBLED IN THIER FINAL RELATIVE POSITION WITH THE ENDS IN PLACE FOR SHOP INSPECTION AND ACCEPTANCE.

EXPANSION JOINTS SHALL BE FABRICATED AND INSTALLED ACCORDING TO THE MANUFACTUR'S RECOMMENDATIONS AND AS APPROVED BY THE ENGINEER.

EXPANSION JOINTS SHALL BE FABRICATED TO CONFORM TO THE EXISTING CROSS SLOPES OF THE BRIDGE.

JOINT OPENINGS SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.03 OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50°F.

A COMPLETE SET OF EXISTING BRIDGE PLANS CAN BE OBTAINED BY CONTACTING IDOT DISTRICT 2.
 IDOT DISTRICT 2.
 ATTN: MAHMOUD ETEMADI, P.E. 815-284-5393
 819 DEPOT AVENUE
 DIXON, IL 61021



PROFILE GRADE
(ALONG > ROADWAY)

FILE NAME = G:\Team Drives\Projects\2016-0002 ID2 IDOT\1\0 Work 11\CADD\SHEETS\0264N32-SHT02-GENERAL NOTES.dgn

WYNN DALCO
 ENTERPRISES
 19081 Old LaGrange Rd, Ste. 106
 Mokena, IL 60448
 312.256.9090

USER NAME = Yun Kim	DESIGNED - SHP	REVISED
	CHECKED - MJL	REVISED
PLOT SCALE =	DRAWN - SHP	REVISED
PLOT DATE = 5/23/2019	CHECKED - MJL	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
SN 098-0100

SHEET NO. 1 OF 1 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	(16BR)BDR	WHITESIDE	27	2
CONTRACT NO. 64N32			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

CODE NAME	ITEM	UNIT	TOTAL QUANTITY	80% FED 20% STATE
				URBAN
				BRIDGE
				0059
				098-0100
42001300	PROTECTIVE COAT	SQ YD	4,574	4,574
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3200	3,200
40600627	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N50	TON	80	80.0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	80	80.0
40600990	TEMPORARY RAMP	SQ YD	160	160.0
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	4.0	4.0
44000152	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	SQ YD	540.0	540.0
44000182	HOT-MIX ASPHALT SURFACE REMOVAL, 8"	SQ YD	180	180.0
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	180	180.0
50102400	CONCRETE REMOVAL	CU YD	9.2	9.2
50157300	PROTECTIVE SHIELD	SQ YD	26	26
50300255	CONCRETE SUPERSTRUCTURE	CU YD	11.0	11.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,410	1,410
50800515	BAR SPLICERS	EACH	28	28
52000110	PREFORMED JOINT STRIP SEAL	FOOT	45	45
58700300	CONCRETE SEALER	SQ FT	295	295
60260100	INLET TO BE ADJUSTED	EACH	4	4
67100100	MOBILIZATION	L SUM	1	1

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WYNDALCO
ENTERPRISES
19081 Old LaGrange Rd, Ste. 106
Mokena, IL 60448
312.256.9090

USER NAME = Yun Kim	DESIGNED - SHP	REVISED
	CHECKED - MJL	REVISED
PLOT SCALE =	DRAWN - SHP	REVISED
PLOT DATE = 5/23/2019	CHECKED - MJL	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SHEET NO. 1 OF 2 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	(16BR)BDR	WHITESIDE	27	3
			CONTRACT NO. 64N32	
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

80% FED
20% STATE

URBAN

CODE NAME	ITEM	UNIT	TOTAL QUANTITY	URBAN	
				BRIDGE	
				0059	098-0100
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	3	3	
70300520	PAVEMENT MARKING TAPE, TYPE III, 4"	FOOT	6,010	6,010	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,025	1,025	
70400200	RELOCATION TEMPORARY CONCRETE BARRIER	FOOT	1,025	1,025	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3,850	3,850	
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1,285	1,285	
X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	3,590	3,590	
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	LSUM	1	1	
Z0012130	BRIDGE DECK SCARIFICATION, 3/4"	SQ YD	4,040	4,040	
Z0012164	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/2"	SQ YD	4,040	4,040	
Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	4,040	4,040	
Z0034390	MODULAR EXPANSION JOINT 6"	FOOT	45	45	
Z0007114	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES	L SUM	1.0	1.0	

*= SPECIALTY ITEM

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WYNDALCO
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Mokena, IL 60448
312.256.9090

USER NAME = Yun Kim	DESIGNED - SHP	REVISOR
	CHECKED - MJL	REVISION
PLOT SCALE =	DRAWN - SHP	REVISION
PLOT DATE = 5/23/2019	CHECKED - MJL	REVISION

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SHEET NO. 2 OF 2 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	(16BR)BDR	WHITESIDE	27	4
			CONTRACT NO. 64N32	
ILLINOIS FED. AID PROJECT				

CONSTRUCTION STAGING GENERAL NOTES

1. ALL SIGNING MUST BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016, THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE IDOT BUREAU OF DESIGN AND ENVIRONMENT HIGHWAY STANDARDS AND THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
2. LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR MUST BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS AND OTHER DEVICES INSTALLED ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THIS CONSTRUCTION IS IN EFFECT.
4. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE CONSTRUCTION IS IN EFFECT MUST BE COMPLETELY COVERED BY THE CONTRACTOR.
5. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS MUST BE AS REQUIRED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
6. AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED MUST MEET THE REQUIREMENTS FOR TYPE A - LOW INTENSITY FLASHING LIGHTS IN ARTICLE 702.04 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION MUST BE USED.
7. PROPOSED MAINTENANCE OF TRAFFIC SIGNING MUST BE COVERED OR REMOVED WHEN NOT REQUIRED DURING A SPECIFIC STAGE OF CONSTRUCTION.
8. SEE SUGGESTED MAINTENANCE OF TRAFFIC PLAN FOR ADDITIONAL SIGNING.
9. THE CONTRACTOR MUST CONDUCT HIS WORK IN SUCH A MANNER THAT EMERGENCY VEHICLES WILL HAVE ACCESS TO THE AREA AT ALL TIMES.
10. SIGN SPACING SHALL BE PER IDOT STANDARD 701321.
11. CONTRACTOR TO BE IN ACCORDANCE WITH IDOT STANDARD 701321.

HOT-MIX ASPHALT – SUMMARY OF QUANTITIES

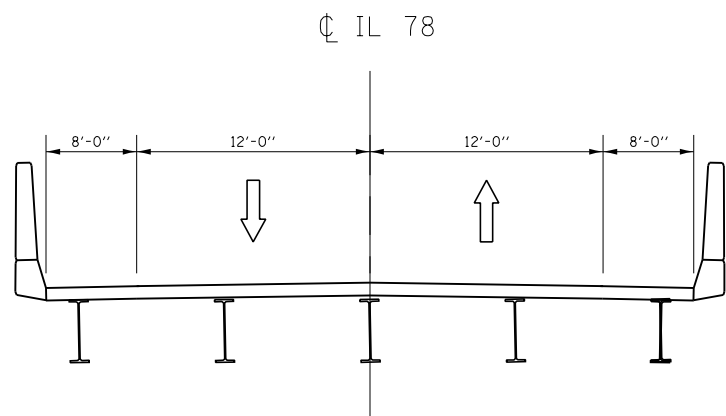
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44000182	HOT-MIX ASPHALT SURFACE REMOVAL, 8"	SQ YD	180.0
44000152	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	SQ YD	540.0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	160.0
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	80.0
40600627	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N50	TON	80.0
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	180.0
40600990	TEMPORARY RAMP	SQ YD	114.0
60260100	INLETS TO BE ADJUSTED	EA	4.0
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3200

TOTAL MAINTENANCE OF TRAFFIC – SUMMARY OF QUANTITIES

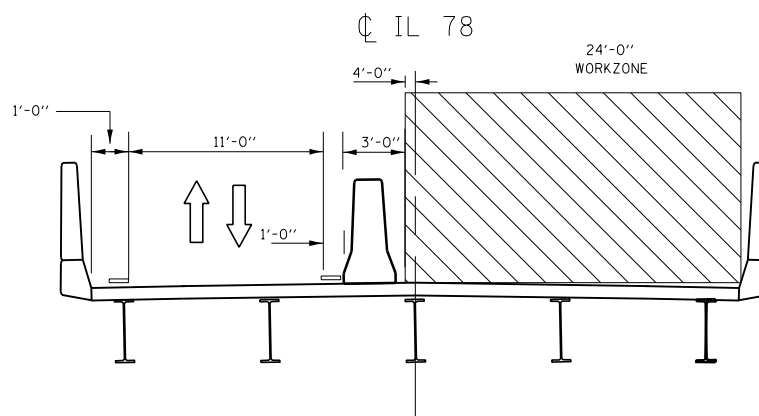
PAY ITEM	DESCRIPTION	UNIT	QUANTITY
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70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	EACH	1
70106500	TEMPORARY BRIDGE SIGNALS	EACH	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	3
70300520	PAVEMENT MARKING TAPE, TYPE III - 4"	FOOT	6,010
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,025
70400200	RELOCATION TEMPORARY CONCRETE BARRIER	FOOT	1,025
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3,850
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1,285

HMA MIXTURE REQUIREMENTS TABLE

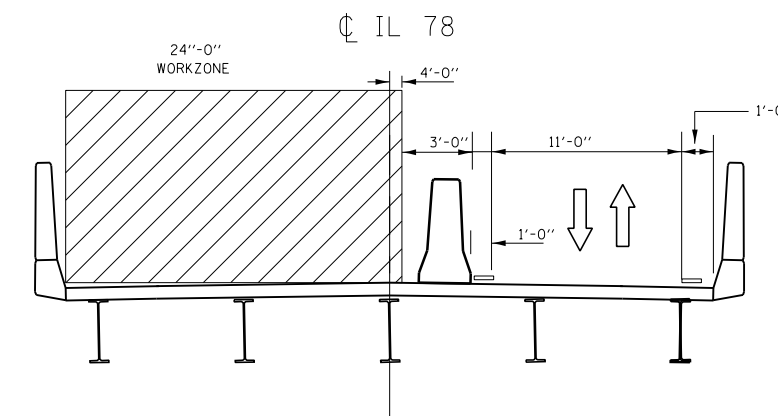
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	SURFACE	LEVEL BINDER
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DESIGN AIR VOIDS	4.0 @ N50	4.0 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 9.5 OR 9.5FG
FRICTION AGGREGATE	C	N/A
20 YEAR ESAL	0.3	N/A
MIX UNIT WEIGHT	112 LBS/SY/IN	N/A
QUALITY MANAGEMENT PROGRAM TO BE USED	QC QA	QC QA
SUBLOT TONNAGE		



STRUCTURE NO. 098-0100 OVER ROCK RIVER (LOOKING NORTH)
 EXISTING TYPICAL
 STA. 482+46 TO STA. 490+70



STRUCTURE NO. 098-0100 OVER ROCK RIVER (LOOKING NORTH)
 STAGE 1 CONSTRUCTION TYPICAL
 STA. 482+46 TO STA. 490+70



STRUCTURE NO. 098-0100 OVER ROCK RIVER (LOOKING NORTH)
 STAGE 2 CONSTRUCTION TYPICAL
 STA. 482+46 TO STA. 490+70

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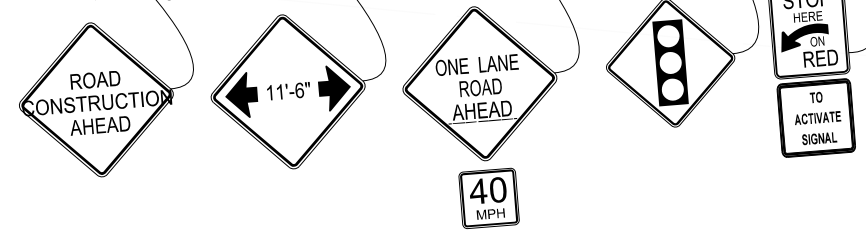
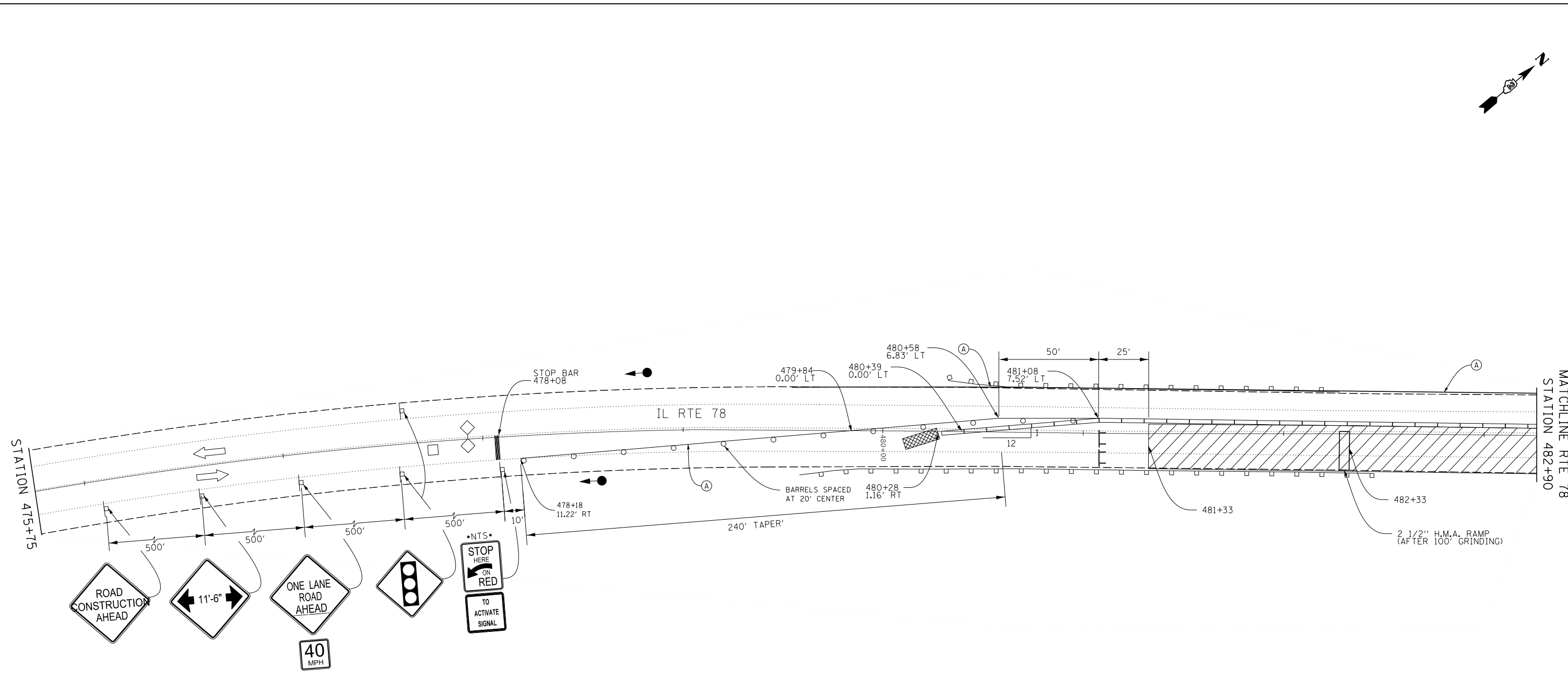
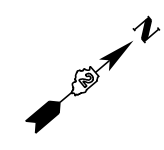
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	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SHEET 1 OF 1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	(16BR)BDR	WHITESIDE	27	5
			CONTRACT NO. 64N32	
ILLINOIS				



LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- ARROW BOARD
- IMPACT ATTENUATOR TEST LEVEL 3
- TRAFFIC DIRECTION
- PAVEMENT MARKING TAPE, TYPE III 4"
- TRAFFIC SIGN
- TRAFFIC SIGNAL
- EXISTING STOP BAR

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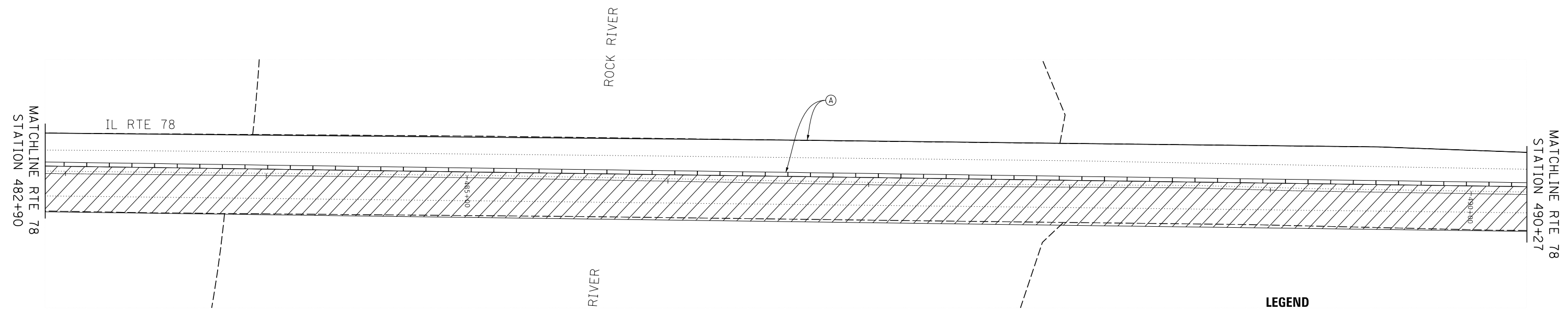
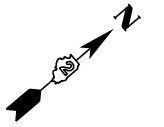


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DRAWN - SJK	REVISIONS -	
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PLOT DATE = 5/23/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC PLAN STAGE 1		
SHEET 1	OF 3 SHEETS	STA. 475+76 TO STA. 482+90

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	(16BR)BDR	WHITESIDE	27	6
			CONTRACT NO. 64N32	
ILLINOIS				



LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- ARROW BOARD
- IMPACT ATTENUATOR TEST LEVEL 3
- TRAFFIC DIRECTION
- PAVEMENT MARKING TAPE, TYPE III 4"
- TRAFFIC SIGN
- TRAFFIC SIGNAL
- EXISTING STOP BAR

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 DBS

DB STERLIN CONSULTANTS, INC.
 100 N. WILCOX DRIVE SUITE 2000
 CHICAGO, ILLINOIS 60606
 TEL: (312)857-1000 FAX: (312)857-1056

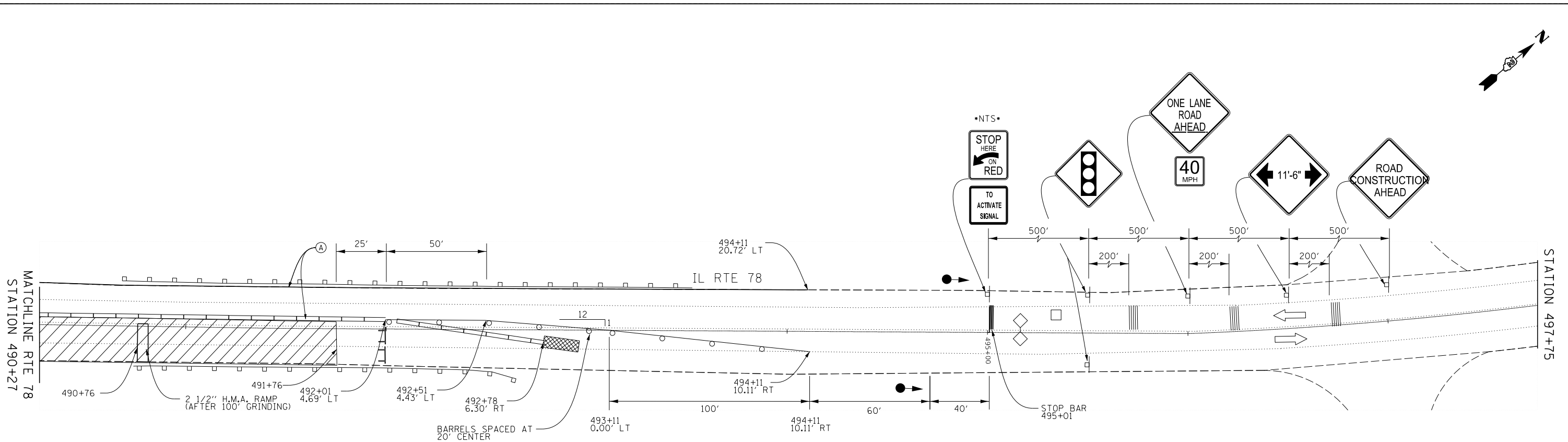
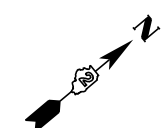
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DRAWN - SJK	REVISIONS -	
PLOT SCALE = 50.0000 ' / in.	CHECKED - MM	REVISED -
PLOT DATE = 5/23/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN
STAGE 1

SHEET 2 OF 3 SHEETS STA. 482+90 TO STA. 490+27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	(16BR)BDR	WHITESIDE	27	7
			CONTRACT NO. 64N32	
ILLINOIS				



STAGE 1 MAINTENANCE OF TRAFFIC - SUMMARY OF QUANTITIES

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	EACH	1
70106500	TEMPORARY BRIDGE SIGNALS	EACH	3
70106700	TEMPORARY RUMBLE STRIPS	EACH	3,005
70300520	PAVEMENT MARKING TAPE, TYPE III - 4"	FOOT	1,025
70400100	TEMPORARY CONCRETE BARRIER	FOOT	-
70400200	RELOCATION TEMPORARY CONCRETE BARRIER	FOOT	2
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	-
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	-
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,285
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	

LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- ARROW BOARD
- IMPACT ATTENUATOR TEST LEVEL 3
- TRAFFIC DIRECTION
- PAVEMENT MARKING TAPE, TYPE III 4"
- TRAFFIC SIGN
- TRAFFIC SIGNAL
- EXISTING STOP BAR

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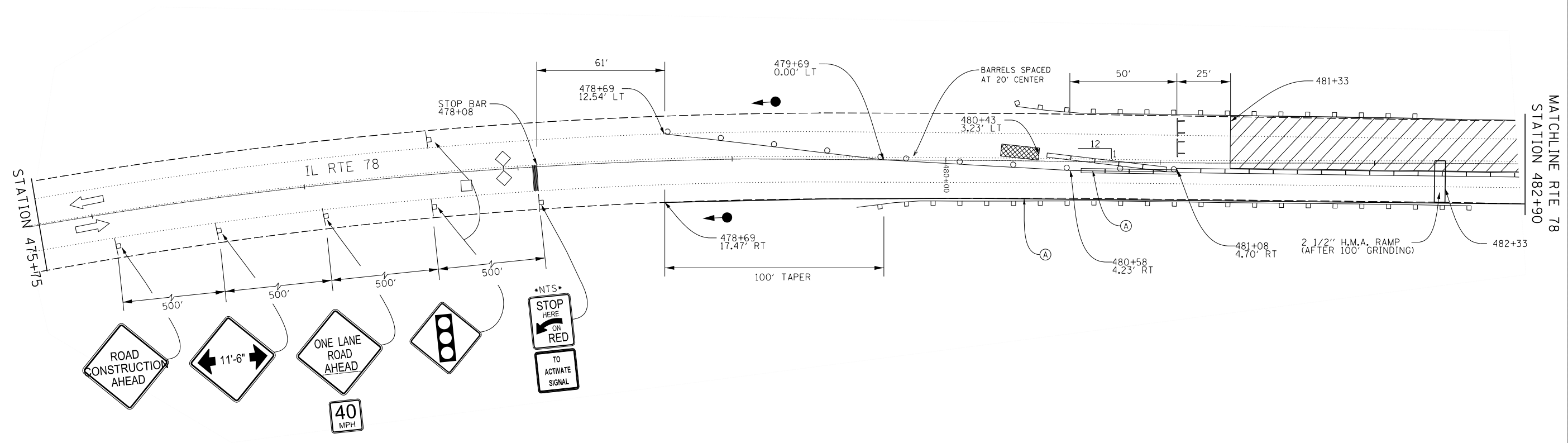
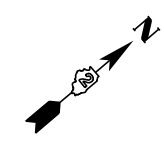
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN
STAGE 1**

SHEET 3 OF 3 SHEETS STA. 490+27 TO STA. 497+75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	(16BR)BDR	WHITESIDE	27	8
			CONTRACT NO. 64N32	
ILLINOIS				



STATION 475+75

MATCHLINE RTE 78
STATION 482+90

LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- ARROW BOARD
- IMPACT ATTENUATOR TEST LEVEL 3
- TRAFFIC DIRECTION
- PAVEMENT MARKING TAPE, TYPE III 4"
- TRAFFIC SIGN
- TRAFFIC SIGNAL
- EXISTING STOP BAR

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DB STERLIN CONSULTANTS, INC.
 100 N. WILCOX DRIVE SUITE 2000
 CHICAGO, ILLINOIS 60606
 TEL: (312)857-1000 FAX: (312)857-1056

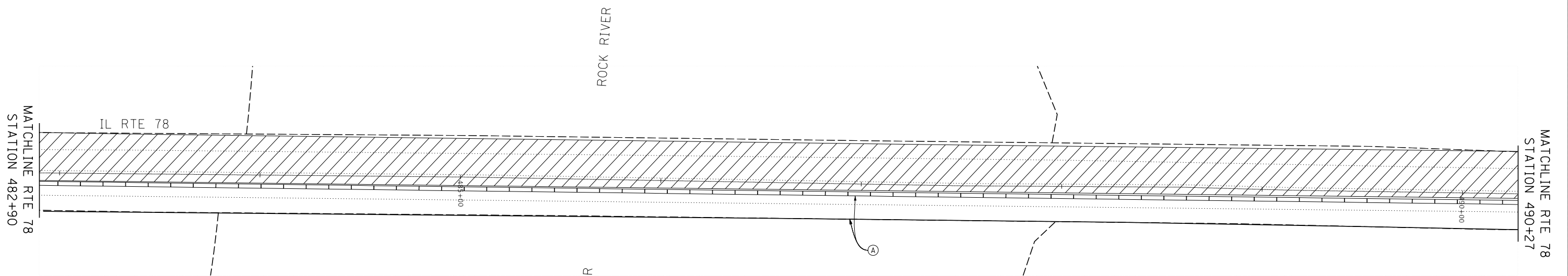
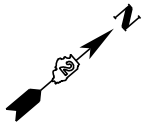
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC PLAN
STAGE 2

SHEET 1 OF 3 SHEETS STA. 475+64 TO STA. 482+90

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	(16BR)BDR	WHITESIDE	27	9
			CONTRACT NO. 64N32	
ILLINOIS				



- LEGEND**
- WORK ZONE
 - TEMPORARY CONCRETE BARRIER WALL
 - TEMPORARY PAVEMENT MARKING
 - DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
 - TYPE III BARRICADE
 - ARROW BOARD
 - IMPACT ATTENUATOR TEST LEVEL 3
 - TRAFFIC DIRECTION
 - PAVEMENT MARKING TAPE, TYPE III 4"
 - TRAFFIC SIGN
 - TRAFFIC SIGNAL
 - EXISTING STOP BAR

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

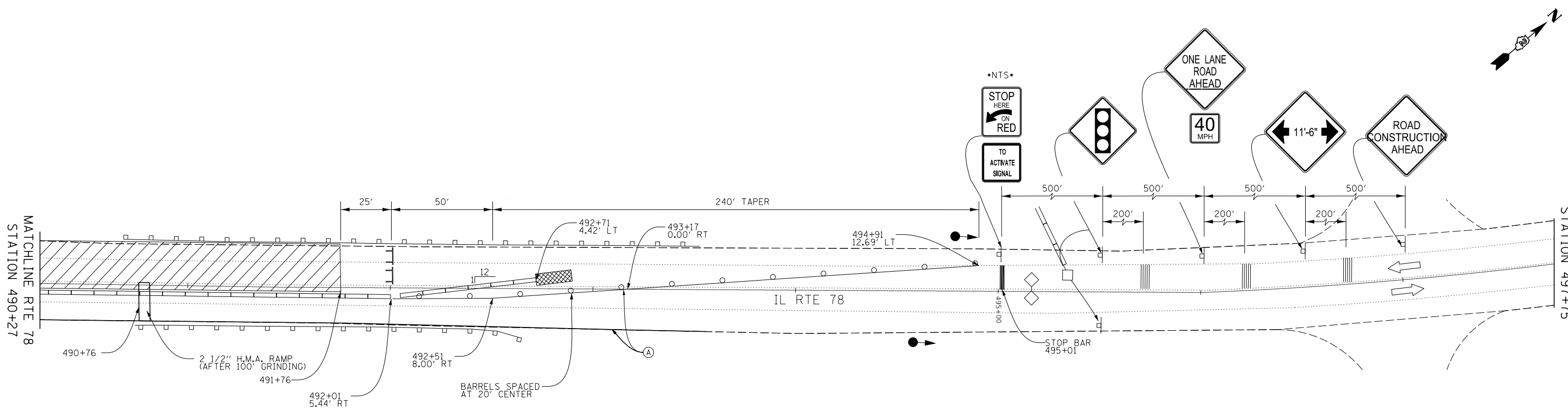
**MAINTENANCE OF TRAFFIC PLAN
STAGE 2**

SHEET 2 OF 3 SHEETS STA. 482+90 TO STA. 490+27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	(16BR)BDR	WHITESIDE	27	10
ILLINOIS			CONTRACT NO. 64N32	

MATCHLINE RTE 78
STATION 490+27

STATION 497+75



STAGE 2 MAINTENANCE OF TRAFFIC – SUMMARY OF QUANTITIES

PAY ITEM	DESCRIPTION	UNIT	QUANTITY
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	-
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	EACH	-
70106500	TEMPORARY BRIDGE SIGNALS	EACH	-
70106700	TEMPORARY RUMBLE STRIPS	EACH	-
70300520	PAVEMENT MARKING TAPE, TYPE III - 4"	FOOT	3,005
70400100	TEMPORARY CONCRETE BARRIER	FOOT	-
70400200	RELOCATION TEMPORARY CONCRETE BARRIER	FOOT	1,025
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	-
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3,850
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	-

LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER WALL
- TEMPORARY PAVEMENT MARKING
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TYPE III BARRICADE
- ARROW BOARD
- IMPACT ATTENUATOR TEST LEVEL 3
- TRAFFIC DIRECTION
- PAVEMENT MARKING TAPE, TYPE III 4"
- TRAFFIC SIGN
- TRAFFIC SIGNAL
- EXISTING STOP BAR

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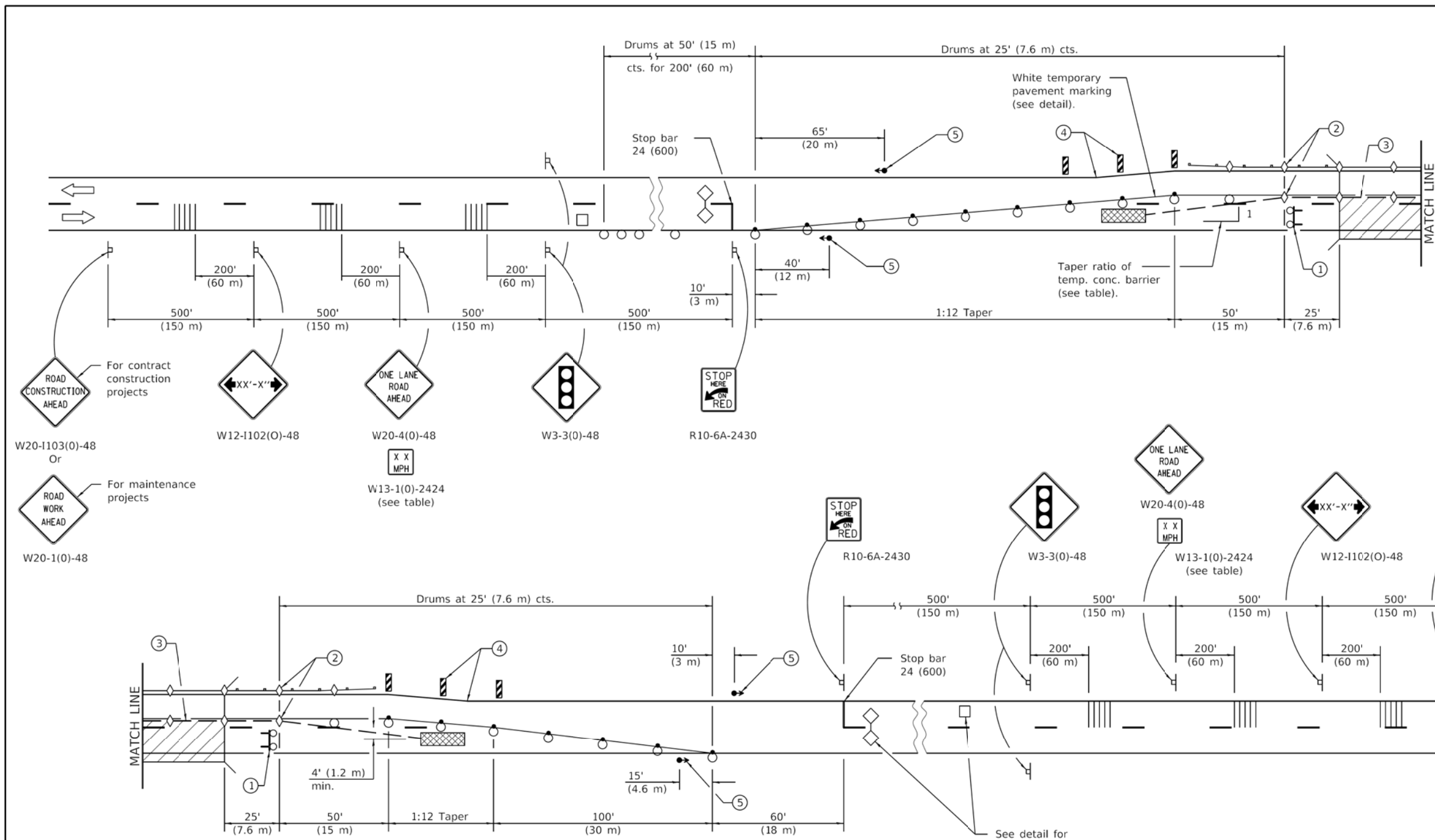
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN
STAGE 2**

SHEET 3 OF 3 SHEETS STA. 490+27 TO STA. 497+75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	(16BR)BDR	WHITESIDE	27	11
			CONTRACT NO. 64N32	
ILLINOIS				



- ① Type III barricade to be placed when no work is being performed.
- ② Guardrail/barrier wall reflectors at 25' (7.6 m) cts. See Standards 704001 & 782006.
- ③ When temp. bridge rail is specified, it shall be connected to the temp. conc. barrier using a traffic barrier terminal Type 11.
- ④ Vertical panels at 25' (7.6 m) cts. throughout lane shift. These devices may be omitted when the guardrail, w/markers, extends to at least this point on the taper.
- ⑤ The edge of the post mounted signal head shall be between 24 (610) and 6' (1.8 m) from edge of shoulder.

For contract construction projects
 ROAD CONSTRUCTION AHEAD
 W20-1103(0)-48
 Or
 ROAD WORK AHEAD
 W20-1(0)-48

For contract construction projects
 XX'-X''
 W12-1102(0)-48
 ONE LANE ROAD AHEAD
 W20-4(0)-48
 X X MPH
 W13-1(0)-2424 (see table)

STOP HERE ON RED
 R10-6A-2430
 W3-3(0)-48

ONE LANE ROAD AHEAD
 W20-4(0)-48
 X X MPH
 W13-1(0)-2424 (see table)
 ROAD CONSTRUCTION AHEAD
 W20-1103(0)-48
 Or
 ROAD WORK AHEAD
 W20-1(0)-48

SYMBOLS

- Work area
- Sign
- Type III barricade with flashing lights
- Traffic signal
- Detector loops
- Impact attenuator
- Drum with steady burning bi-directional light
- Temporary concrete barrier
- Temporary rumble strip (when specified)
- Double vertical panel (see detail)
- Crystal, bidirectional guardrail/barrier wall reflector
- Drum

Illinois Department of Transportation

PASSED January 1, 2018
Paul Lore
 ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2018
Walter M. Adams
 ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

DATE	REVISIONS
1-1-18	Omitted lights in tangents.
1-1-17	Added flashing lights to Type III barricades. Revised note (4).

See Sheet 2 for GENERAL NOTES

**LANE CLOSURE, 2L, 2W,
 BRIDGE REPAIR WITH BARRIER**

(Sheet 1 of 2)

STANDARD 701321-17

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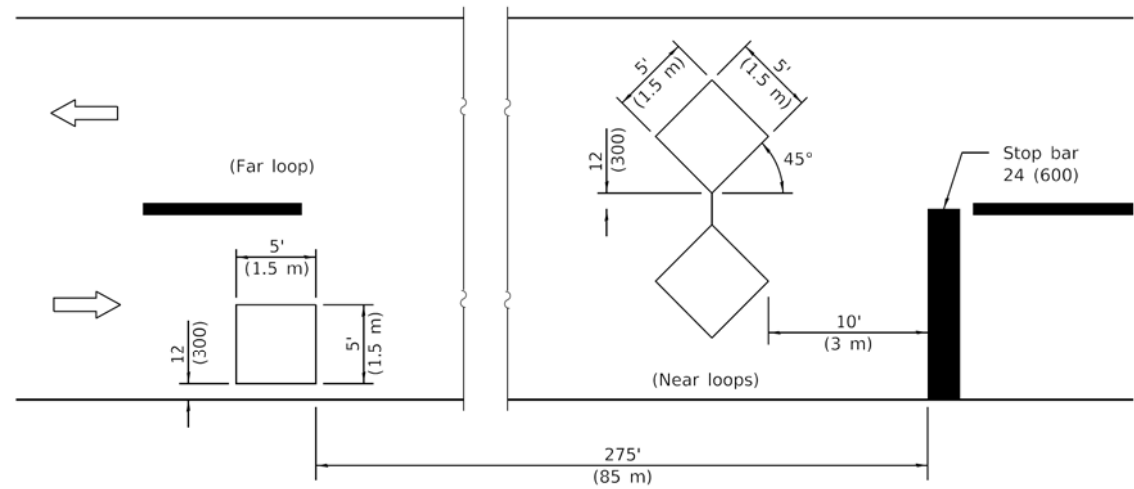
DBS
 DB STERLIN CONSULTANTS, INC.
 100 N. WILSON DRIVE SUITE 2000
 CHICAGO, ILLINOIS 60606
 TEL. (312)857-1000 FAX. (312)857-1055

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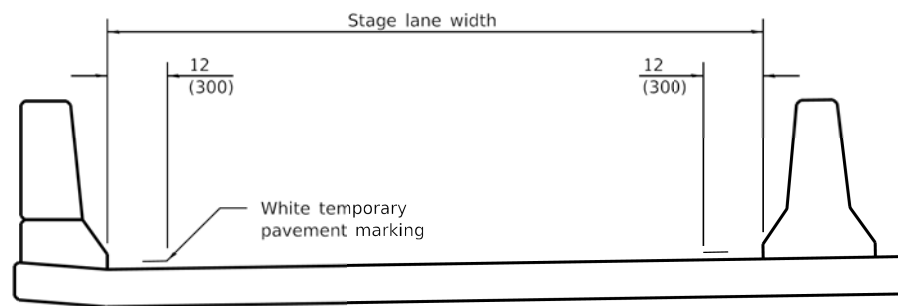
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STANDARDS
 SHEET 1 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	(16BR)BDR	WHITESIDE	27	12
			CONTRACT NO. 64N32	
ILLINOIS				



DETECTOR LOOPS

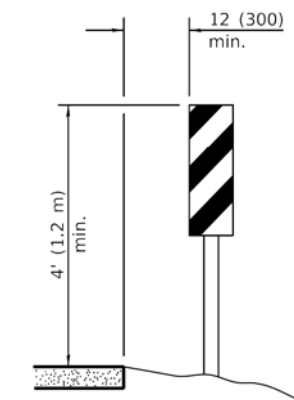


TEMPORARY PAVEMENT MARKING

TRAFFIC SIGNAL SEQUENCE						
PHASE	A			B		
INTERVAL	1	2	3	4	5	6
NORTHBOUND OR EASTBOUND	G	Y	R	R	R	R
SOUTHBOUND OR WESTBOUND	R	R	R	G	Y	R

TEMPORARY CONCRETE BARRIER	
NORMAL POSTED SPEED	TAPER RATIO
40 mph AND ABOVE	12:1
BELOW 40 mph	8:1

ADVISORY SPEED LIMIT	
NORMAL POSTED SPEED	ADVISORY SPEED
55 - 45 mph	40 mph
40 mph	35 mph
35 - 30 mph	30 mph



VERTICAL PANELS
(Post mounted, one each side)

GENERAL NOTES

This Standard is used where, at any time, any vehicle, equipment, workers, or their activities will encroach on one lane of a bridge. Traffic signals and a positive barrier are required.

Traffic signals shall be operational only when all traffic controls are in place. When traffic signals are not in operation, flaggers shall be used and traffic control shall conform to Standard 701201 or 701206.

Temporary concrete barrier shall be according to Standard 704001.

Existing or temporary pavement markings shall be on both sides of open lane from stop bar to stop bar.

All dimensions are in inches (millimeters) unless otherwise shown.

**LANE CLOSURE, 2L, 2W,
BRIDGE REPAIR WITH BARRIER**

(Sheet 2 of 2)

STANDARD 701321-17

Illinois Department of Transportation

PASSED January 1, 2018
Paul Lore
ENGINEER OF SAFETY PROG. AND ENGINEERING

APPROVED January 1, 2018
Maureen M. Adams
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-97

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STANDARDS

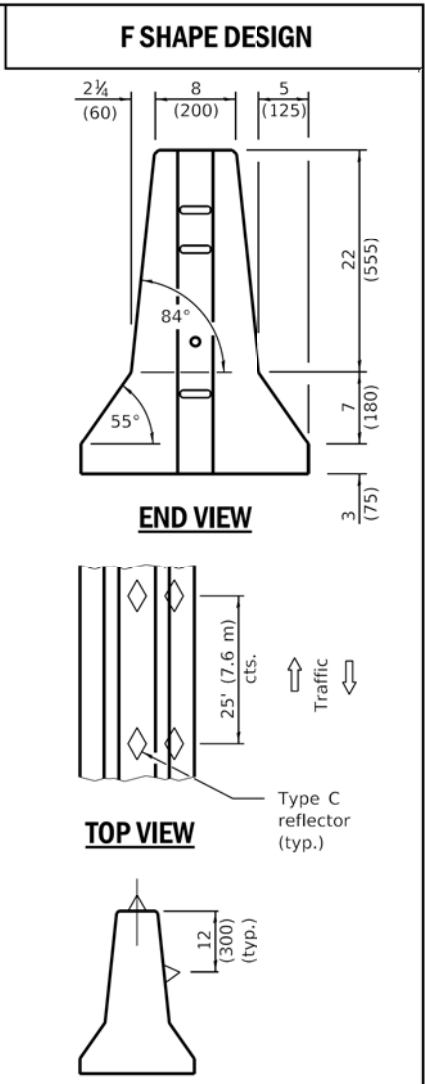
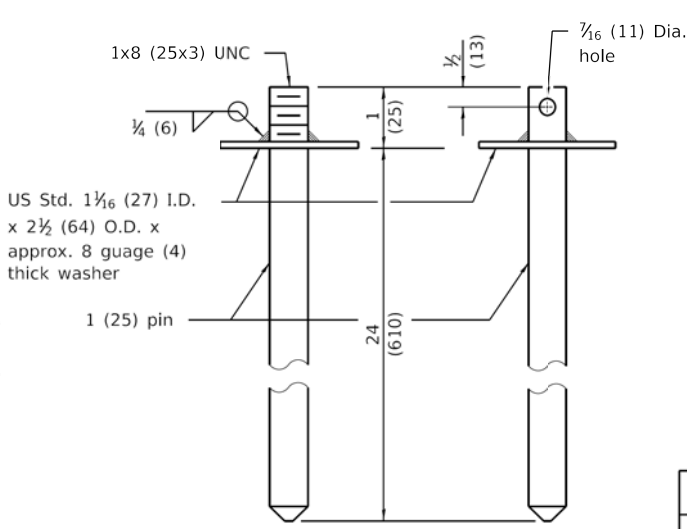
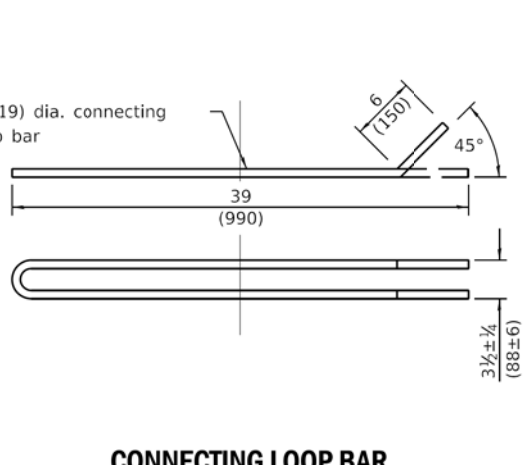
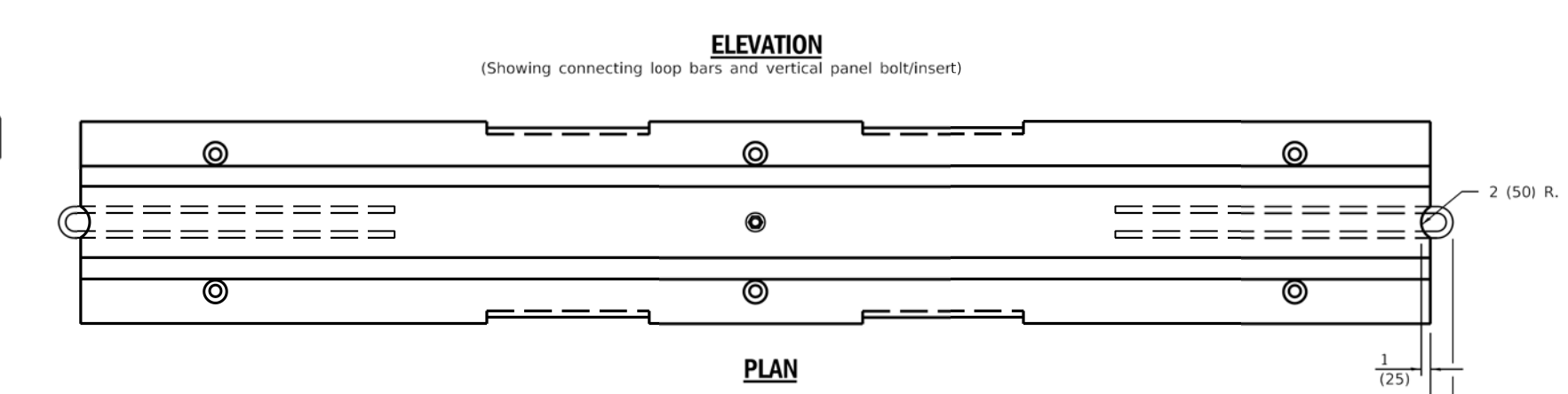
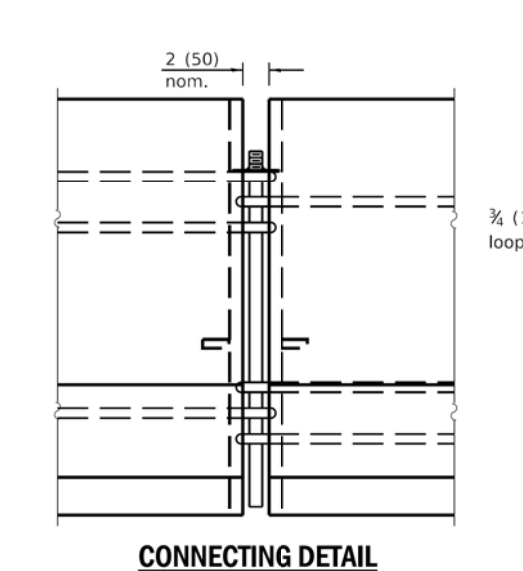
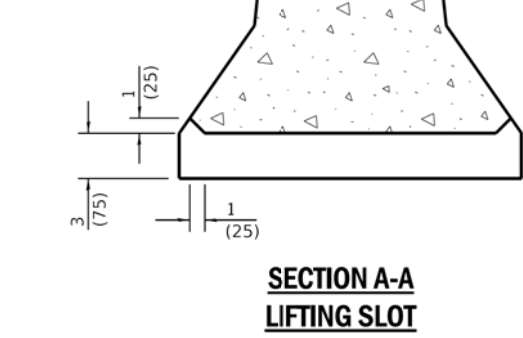
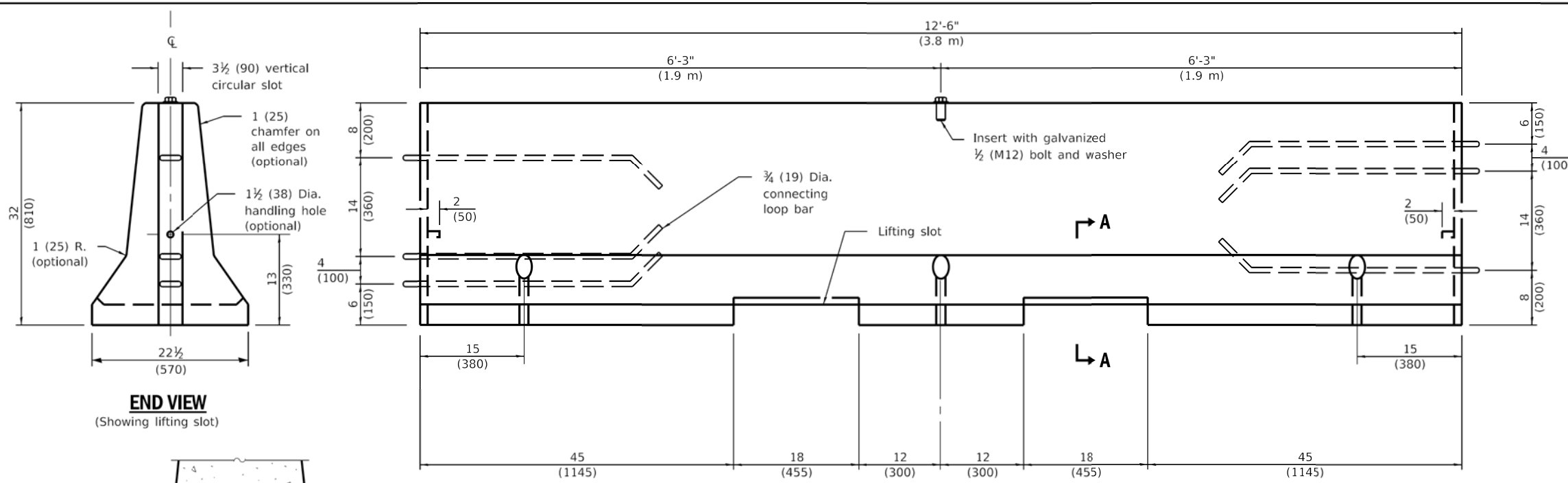
SHEET 2 OF 7 SHEETS

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100 N. WILCOX DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)851-1000 FAX. (312)851-1055

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PLOT DATE = 5/23/2019	CHECKED - MM	REVISED -
	DATE -	REVISED -



GENERAL NOTES

Each F shape barrier shall be clearly marked with "ILLINOIS F SHAPE", the Producer's mark and the date of manufacture. The markings shall be indented on the barrier or painted thereon with waterproof paint/ink.

The insert for the 1/2 (M12) bolt shall be capable of 3,000 lb (13 kN) pull-out strength.

When barrier separates opposing flows of traffic markers shall be on both sides of barrier.

See Standard 782006 for dimensions of Type C reflector.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

PASSED April 1, 2016
Michael Beard
ENGINEER OF POLICY AND PROCEDURES

APPROVED April 1, 2016
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 10-1-02

DATE	REVISIONS
4-1-16	Rev. opt. chamfer on all edges to 1 (25). Reference to Std. 635011 now 782006.
1-1-12	Omitted 'ALTERNATE' from connecting and anchoring pins detail.

TEMPORARY CONCRETE BARRIER
(Sheet 1 of 2)

STANDARD 704001-08

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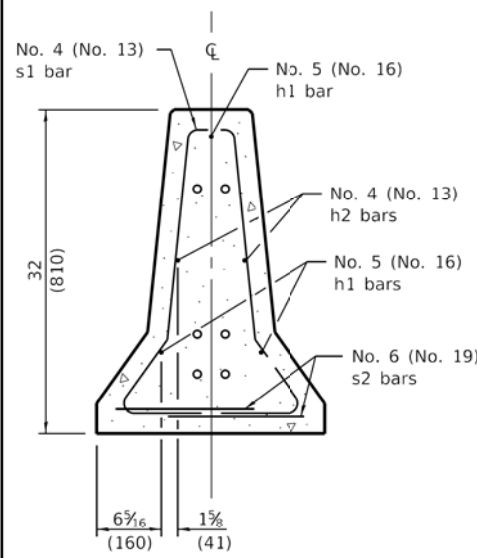
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100 N. WICKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1000 FAX. (312)857-1055

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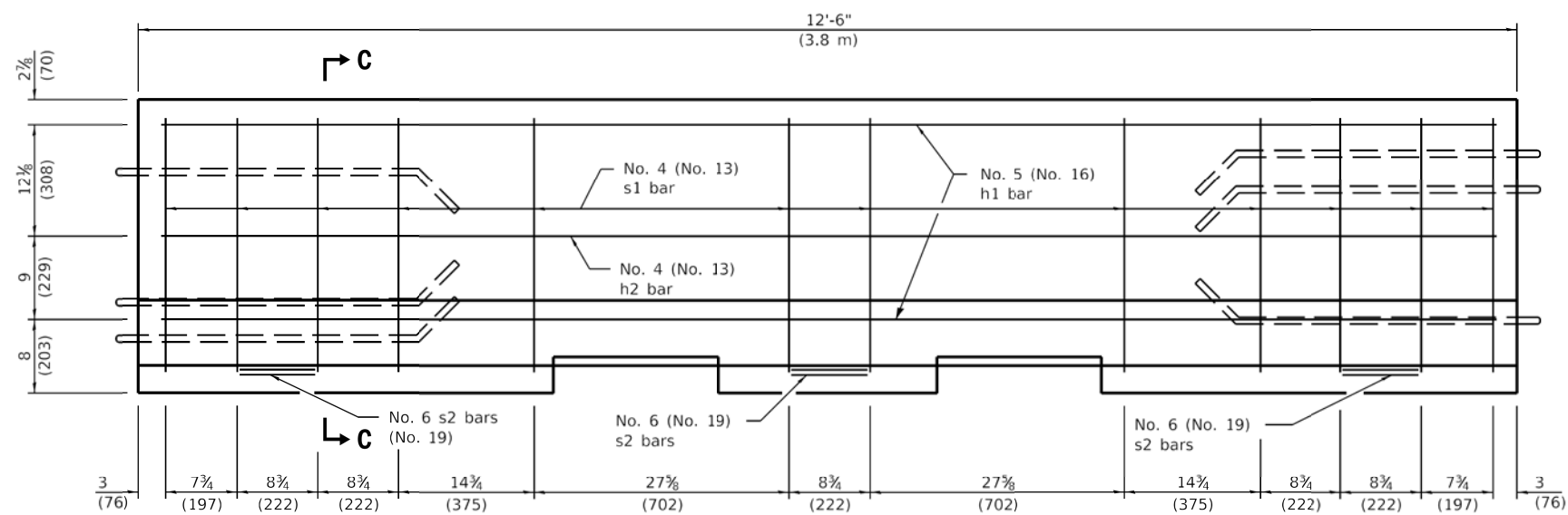
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STANDARDS
SHEET 3 OF 7 SHEETS

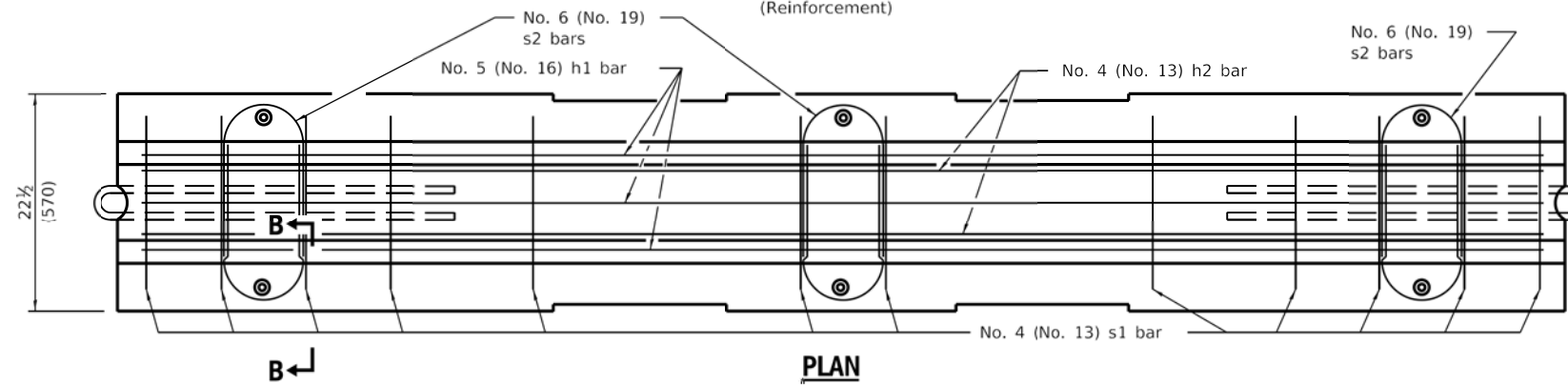
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22	(16BR)BDR	WHITESIDE	27	14
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ILLINOIS				



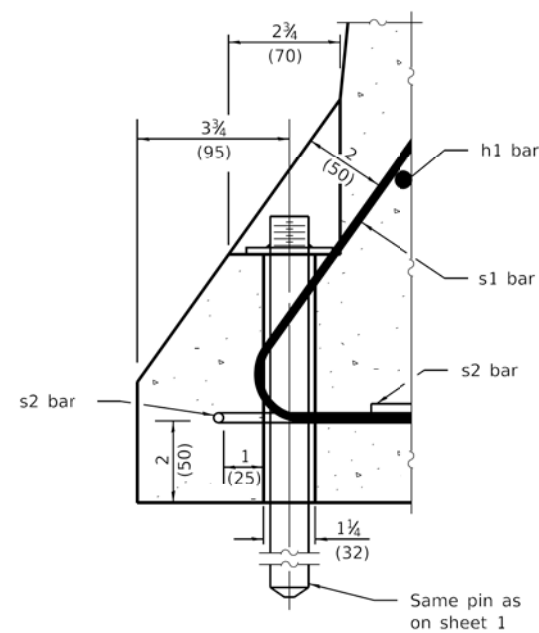
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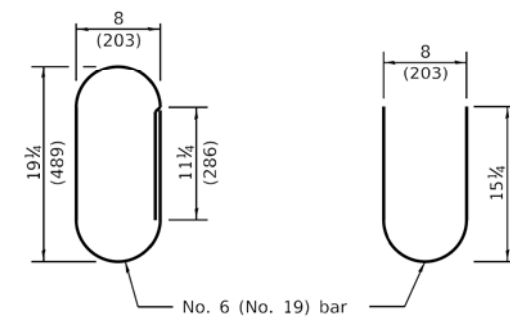
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(Reinforcement)



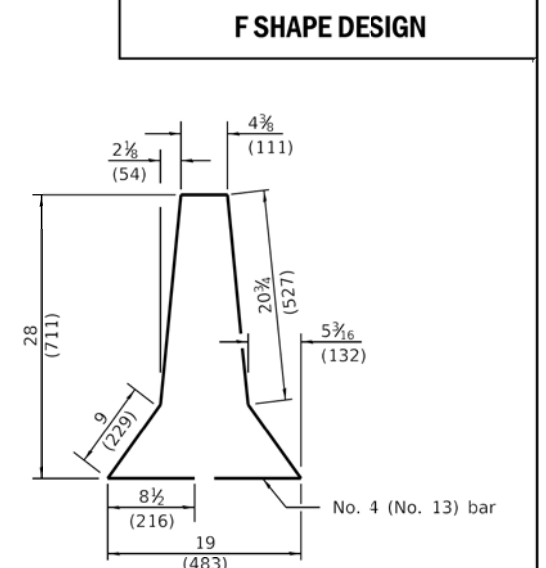
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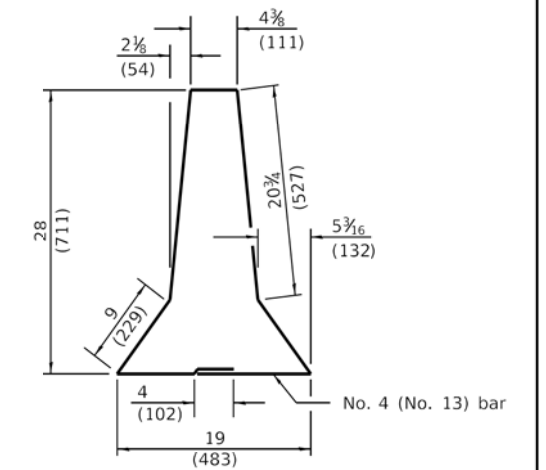
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ANCHORING DETAIL



ALTERNATE s2 BARS



s1 BAR



ALTERNATE s1 BAR

Illinois Department of Transportation

PASSED April 1, 2016
Michael Beard
ENGINEER OF POLICY AND PROCEDURES

APPROVED April 1, 2016
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 10-1-02

TEMPORARY CONCRETE BARRIER

(Sheet 2 of 2)

STANDARD 704001-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STANDARDS

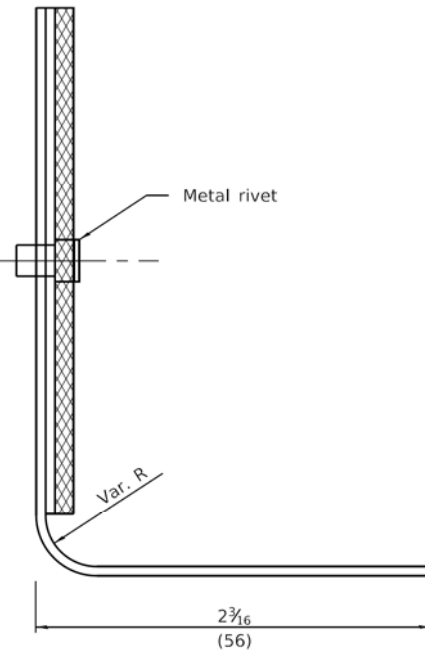
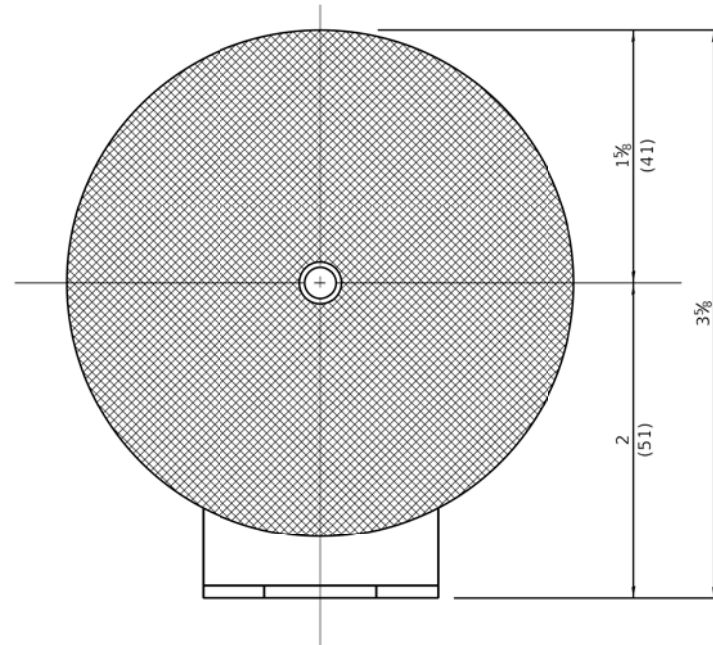
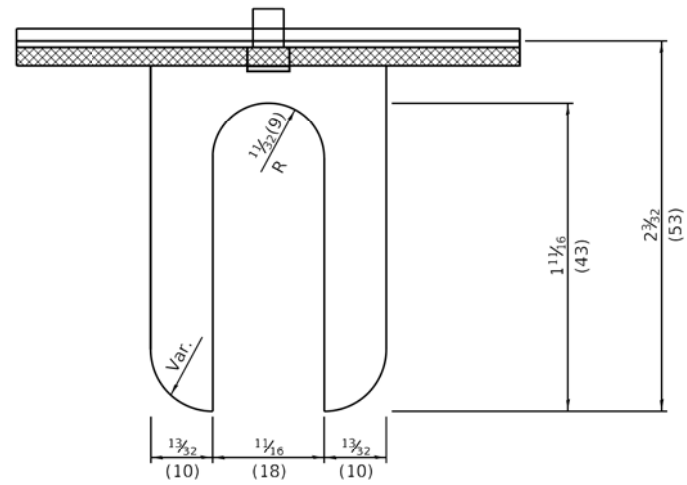
SHEET 4 OF 7 SHEETS

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ILLINOIS				

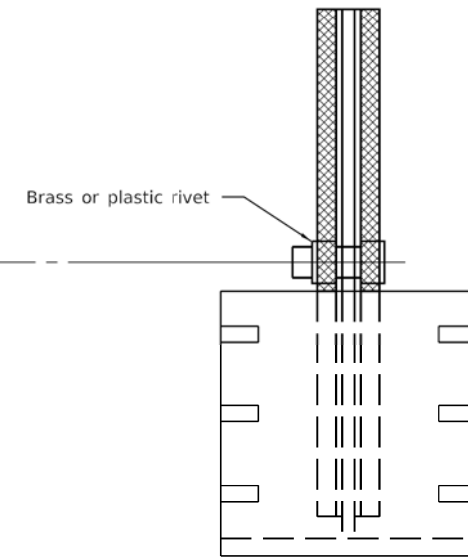
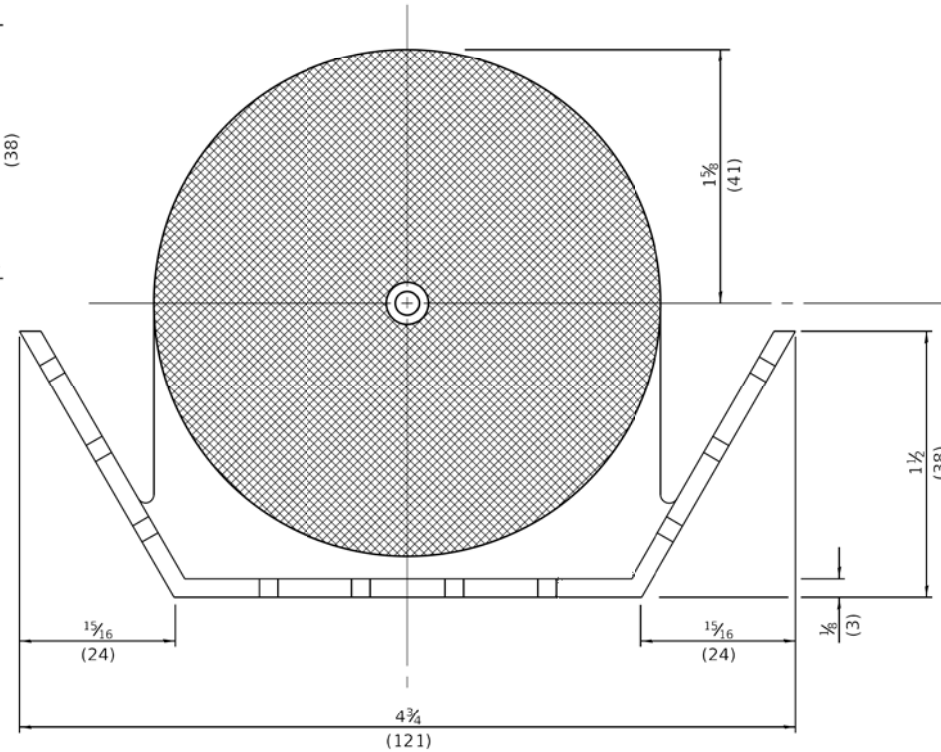
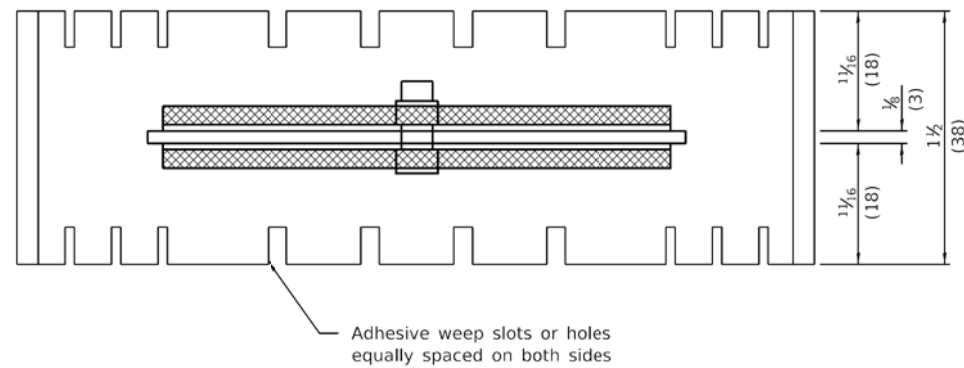
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100 N. WICKER DRIVE SUITE 2000
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TEL: (312)857-1000 FAX: (312)857-1055

USER NAME = IDOT	DESIGNED - SJK	REVISED -
PLOT SCALE =	DRAWN - SJK	REVISED -
DATE = 5/23/2019	CHECKED - MM	REVISED -
	DATE -	REVISED -



REFLECTOR TYPE A
(monodirectional shown)



All dimensions are in inches (millimeters) unless otherwise shown.

REFLECTOR TYPE B
(bidirectional shown)

Illinois Department of Transportation

PASSED April 1, 2016
ENGINEER OF OPERATIONS

APPROVED April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-2000

DATE	REVISIONS
4-1-16	Added reflector spacing detail. Moved TERMINAL MARKER to std. 725001.
1-1-09	Switched units to English (metric).

GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
(Sheet 1 of 3)

STANDARD 782006

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

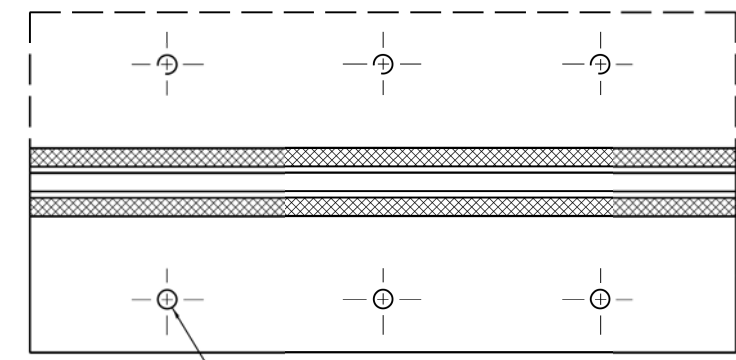
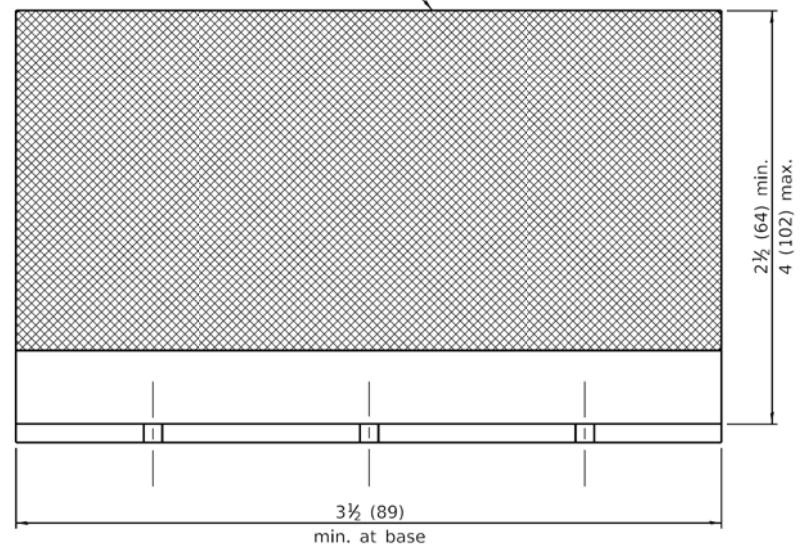
STANDARDS

SHEET 5 OF 7 SHEETS

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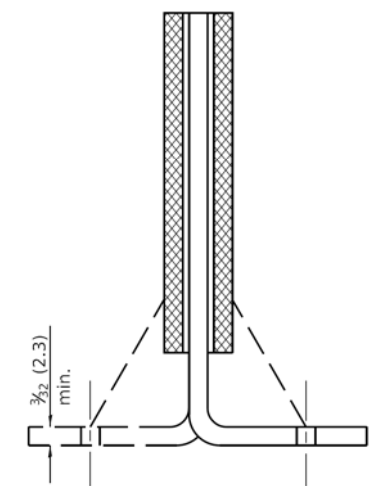
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	(16BR)BDR	WHITESIDE	27	16
			CONTRACT NO. 64N32	
ILLINOIS				

Reflective area. May be rectangular or slight trapezoid.



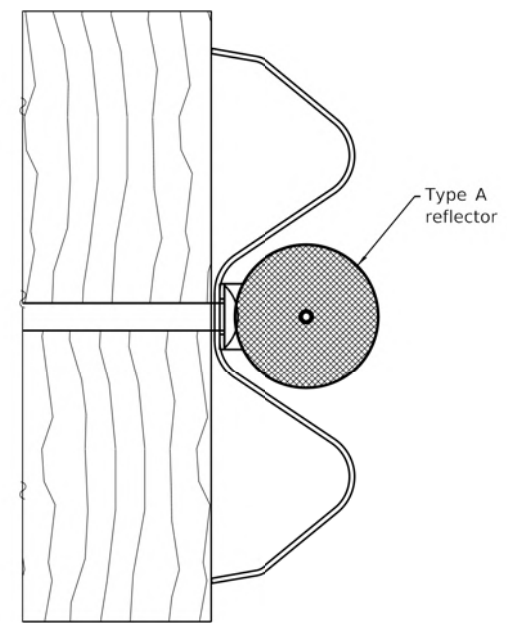
3 min. adhesive weep holes or slots each side, variable spacing.

Minimum total area of base 7.0 sq. in. (4,516 mm²)

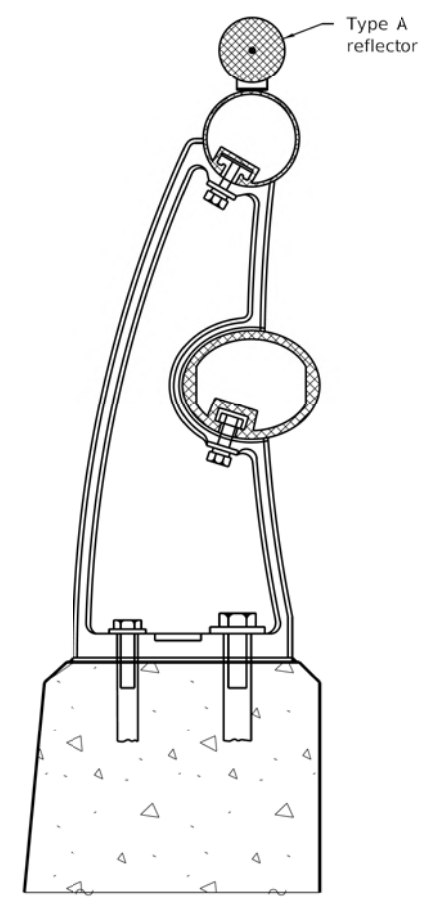
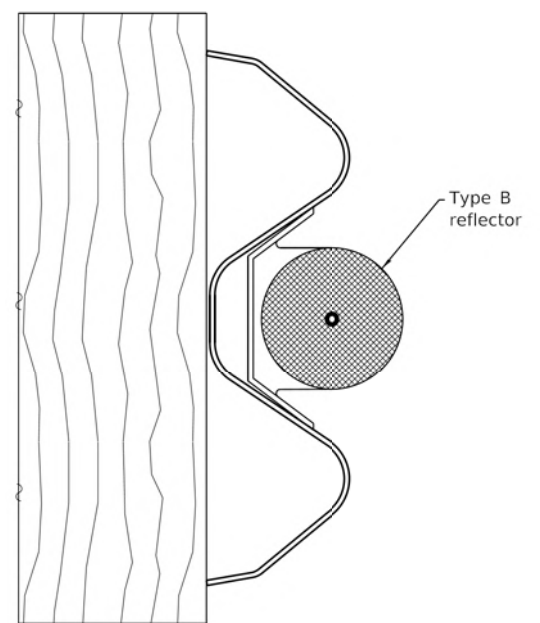


Cross section may be "T" or "L" shaped and may have side supports at ends.

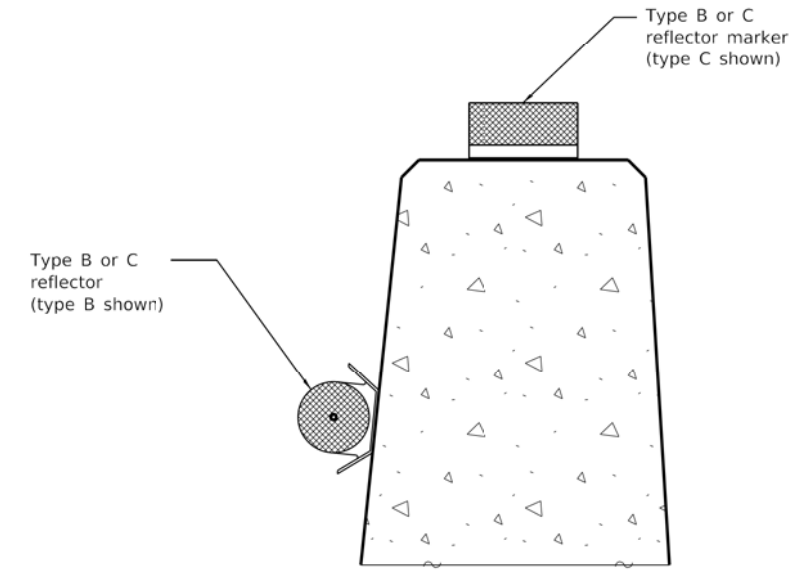
REFLECTOR TYPE C



TYPICAL MOUNTING DETAIL FOR GUARDRAIL REFLECTOR



TYPICAL MOUNTING DETAIL FOR BRIDGE RAIL REFLECTOR



TYPICAL MOUNTING DETAIL FOR BARRIER WALL REFLECTOR

GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
(Sheet 2 of 3)
STANDARD 782006

Illinois Department of Transportation

PASSED April 1, 2016
ENGINEER OF OPERATIONS

APPROVED April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-2000

MODEL: D:\dft\... FILE NAME: P:\0035\000535_11_Rte 22 over Rock River\CAD Standards\Std.dgn

DBS DB STERLIN CONSULTANTS, INC.
100 N. WILCOX DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL. (312)857-1000 FAX. (312)857-1056

USER NAME = IDOT	DESIGNED - SJK	REVISED -
PLOT SCALE =	DRAWN - SJK	REVISED -
PLOT DATE = 5/23/2019	CHECKED - MM	REVISED -
	DATE -	REVISED -

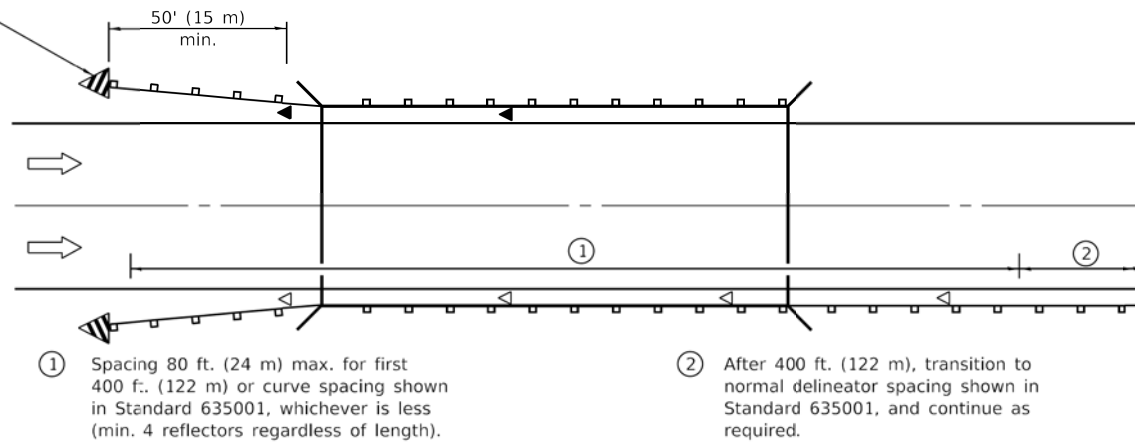
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STANDARDS

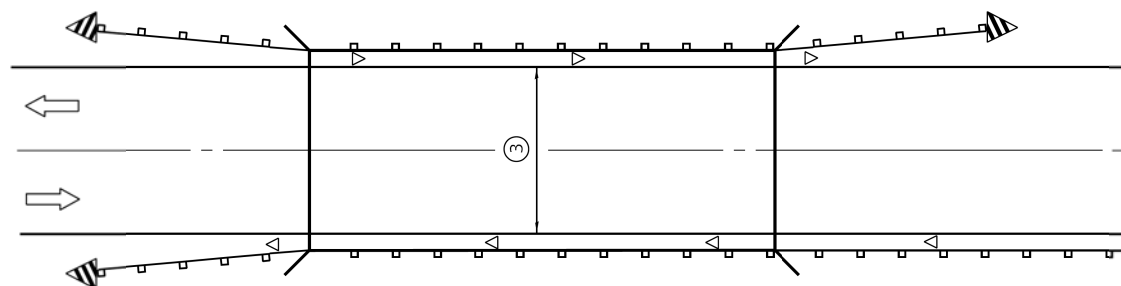
SHEET 6 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	(16BR)BDR	WHITESIDE	27	17
ILLINOIS			CONTRACT NO. 64N32	

Terminal marker.
See standard
725001.



ONE-WAY TRAFFIC



③ Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the pavement is less than 24 (610) wider than the pavement approaching the bridge.

◁ Monodirectional crystal
◄ Monodirectional amber

TWO-WAY TRAFFIC

**GUARDRAIL / BARRIER WALL
REFLECTOR PLACEMENT DETAIL**

Illinois Department of Transportation

PASSED April 1, 2016
ENGINEER OF OPERATIONS

APPROVED April 1, 2016
ENGINEER OF DESIGN AND ENVIRONMENT

ISSUED 1-1-2000

**GUARDRAIL AND
BARRIER WALL REFLECTOR
MOUNTING DETAILS**
(Sheet 3 of 3)

STANDARD 782006

MODEL: D:\dft\h...
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DBS DB STERLIN CONSULTANTS, INC.
100 N. WICKER DRIVE SUITE 2000
CHICAGO, ILLINOIS 60606
TEL: (312)857-1000 FAX: (312)857-1056

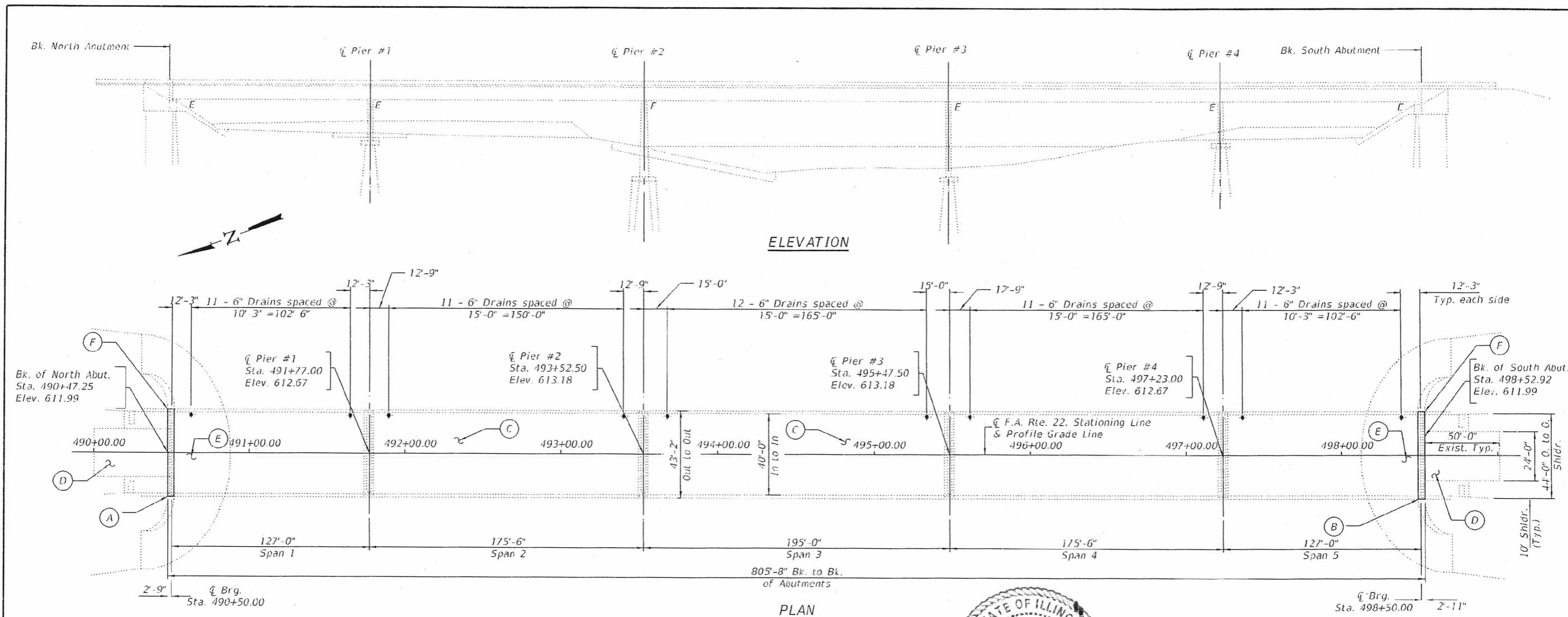
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	DRAWN - SJK	REVISED -
PLOT SCALE =	CHECKED - MM	REVISED -
PLOT DATE = 5/23/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STANDARDS

SHEET 7 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	(16BR)BDR	WHITESIDE	27	18
			CONTRACT NO. 64N32	
ILLINOIS				



LEGEND

- (A) Replace existing expansion joint with Preformed Joint Strip Seal
- (B) Replace existing expansion joint with Modular Joint
- (C) Bridge Deck Scarification, New Microsilica Concrete Overlay & Diamond Grinding
- (D) Approach Slab Transition, see Sheet 25
- (E) Cleaning and painting of Structural Steel, 10' within N. and S. Abut.
- (F) Concrete Sealer applied to Bridge Seats and Face of Backwall

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specification for Highway Bridges

DESIGN STRESSES

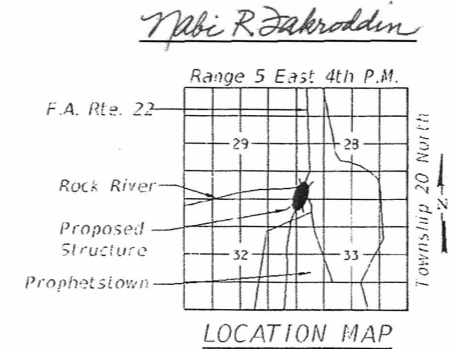
$f'_c = 4,000$ psi (Superstructure Concrete)
 $f'_c = 3,500$ psi (Substructure Concrete)
 $f_y = 60,000$ psi (Reinforcement)

SCOPE OF WORK

1. Scarify $\frac{3}{8}$ " from Bridge Deck Slab.
2. Remove and replace Deck Joints.
3. Apply Bridge Deck Microsilica Concrete Overlay, $2\frac{1}{2}$ " to the Bridge Deck Slab.
4. Perform $\frac{1}{4}$ " diamond grinding to the $2\frac{1}{2}$ " Bridge Deck Microsilica Concrete Overlay and reconstructed transverse expansion joints.
5. Perform Bridge Deck Grooving (Longitudinal) to the Bridge Deck Microsilica Concrete Overlay $2\frac{1}{2}$ ".
6. Apply protective coat to reconstructed deck areas.
7. Perform concrete repairs and crack sealing repairs at the abutments and piers.
8. Replace pavement markings on the top of the deck.
9. Apply Concrete Sealer to Bridge Seat and face of Backwall.



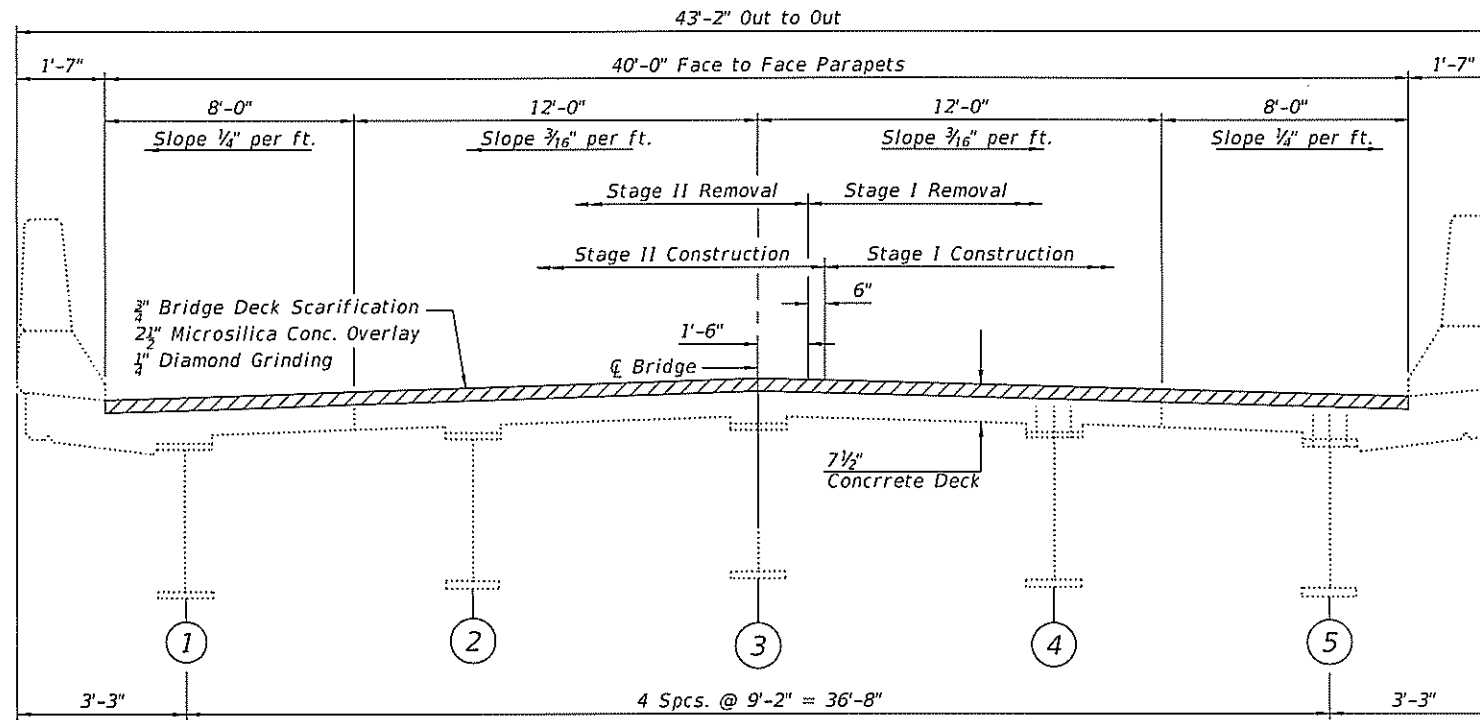
LIC. EXP 11-30-20



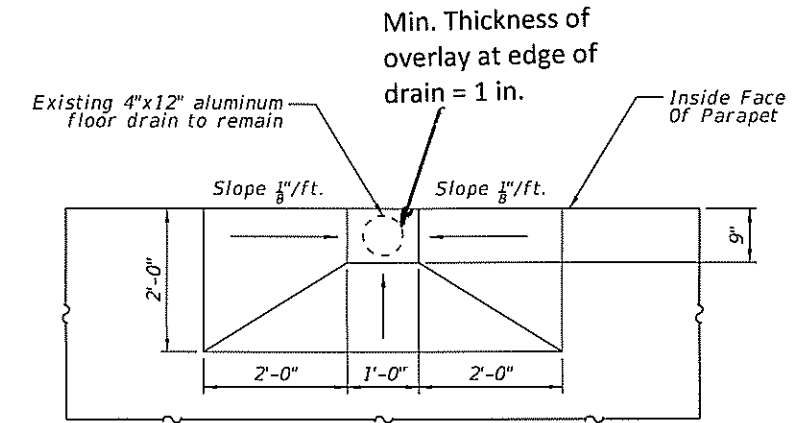
TOTAL BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	9.2
Concrete Superstructure	Cu. Yd.	11.0
Bridge Deck Microsilica Concrete Overlay $2\frac{1}{2}$ "	Sq. Yd.	4,040
Reinforcement Bars, Epoxy Coated	Pound	1,410
Bar Splacers	Each	28
Bridge Deck Scarification $\frac{3}{8}$ "	Sq. Yd.	4,040
Diamond Grinding (Bridge Section)	Sq. Yd.	4,040
Preformed Joint Strip Seal	Foot	45
Protective Coat	Sq. Yd.	4,574
Modular Expansion Joint, 6"	Foot	45
Protective Shield	Sq. Yd.	26
Bridge Deck Grooving (Longitudinal)	Sq. Ft.	3,590
Cleaning and Painting Steel Bridge No. 1	L Sum	1
Containment and Disposal of Non-Lead Paint Cleaning Residues	L Sum	1
*On New Deck Surface And Top & Inside Face Of New Parapet Concrete Only.		

FILE NAME = G:\Team Drives\Projects\2016-0882_02_ILCADD\SHEET\16BRBDR\16BRBDR.Plot.dwg



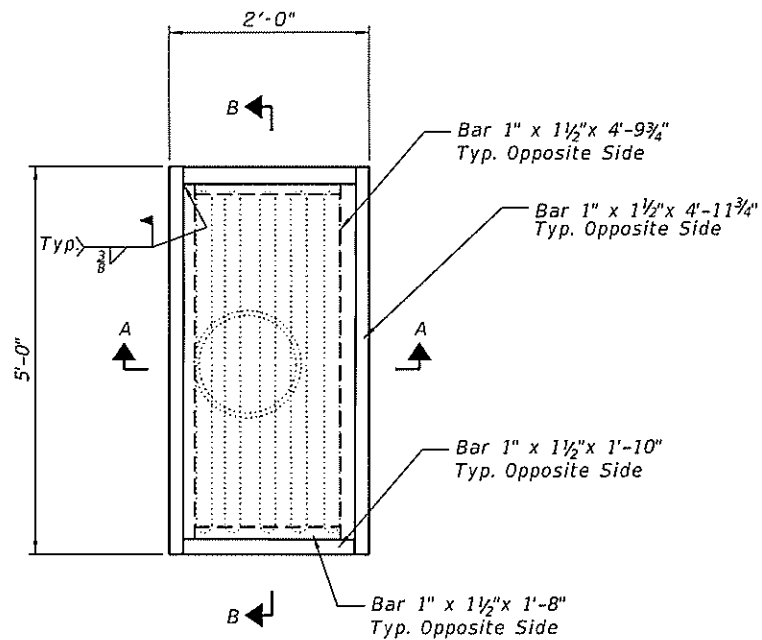
CROSS SECTION
(Looking North)



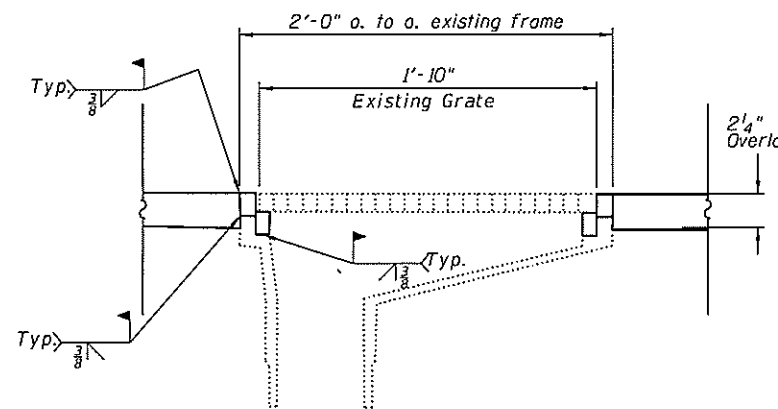
FLOOR DRAIN DETAIL

GENERAL NOTES

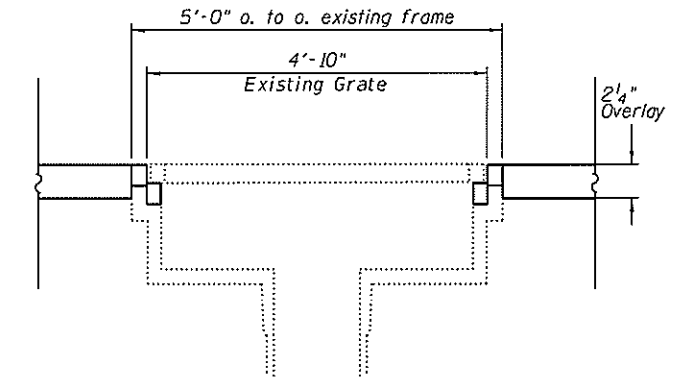
All structural steel shall conform to AASHTO Classification M-270 Gr. 36. The adjusting scupper ring shall be galvanized.
 Plan dimension and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering materials. Such variations shall not be cause for additional compensation for a change in scope of work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work. The Contractor shall ensure that no damage is done to existing grates to be reused.
 Shop plans for proposed adjusting scupper ring shall be submitted for approval prior to fabrication.



PLAN



SECTION A-A



SECTION B-B

APPROACH SHOULDER INLET TO BE ADJUSTED

FILE NAME = *FILES*

WYNDALCO
ENTERPRISES
19081 Old LaGrange Rd, Ste. 106
Mokena, IL 60448
312.256.9090

USER NAME = *USER*	DESIGNED - SHP	REVISED
PLLOT SCALE =	CHECKED - MJL	REVISED
PLLOT DATE = *DATE*	DRAWN - SHP	REVISED
	CHECKED - MJL	REVISED

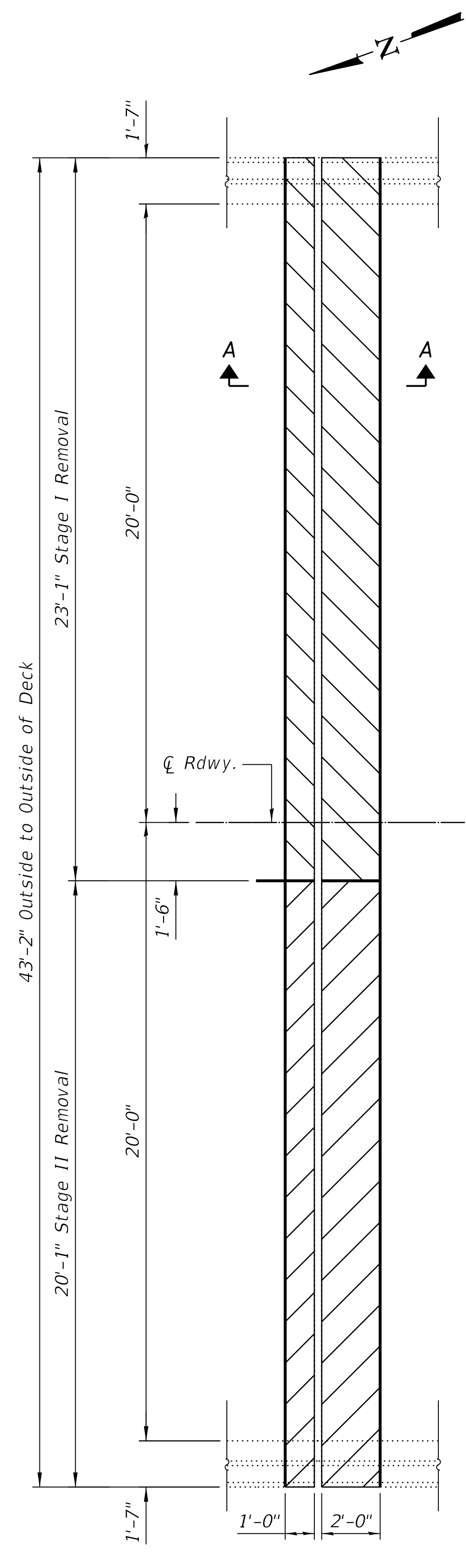
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTION AND DRAIN DETAILS
SN 098-0100

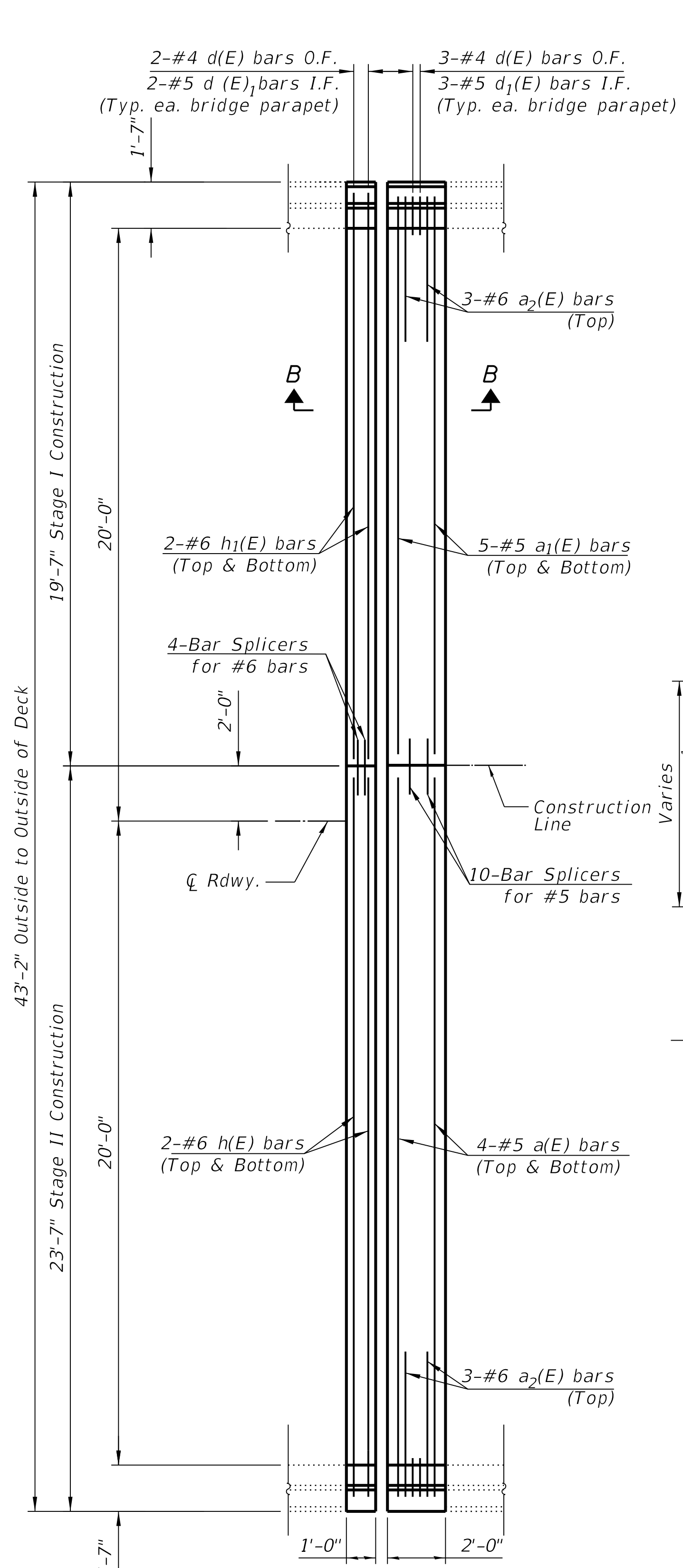
SHEET NO. 2 OF 9 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	(16BR)BDR	WHITESIDE	27	20
				CONTRACT NO. 64N32
ILLINOIS FED. AID PROJECT				

FILE NAME = G:\Team_Drives\Projects\2016-0802_ID2_ID01\110_Wor-A_Dr-der_11\CADD\SHEETS\0264N32-SHT21-NORTH_ABUTMENT_JOINT.dgn



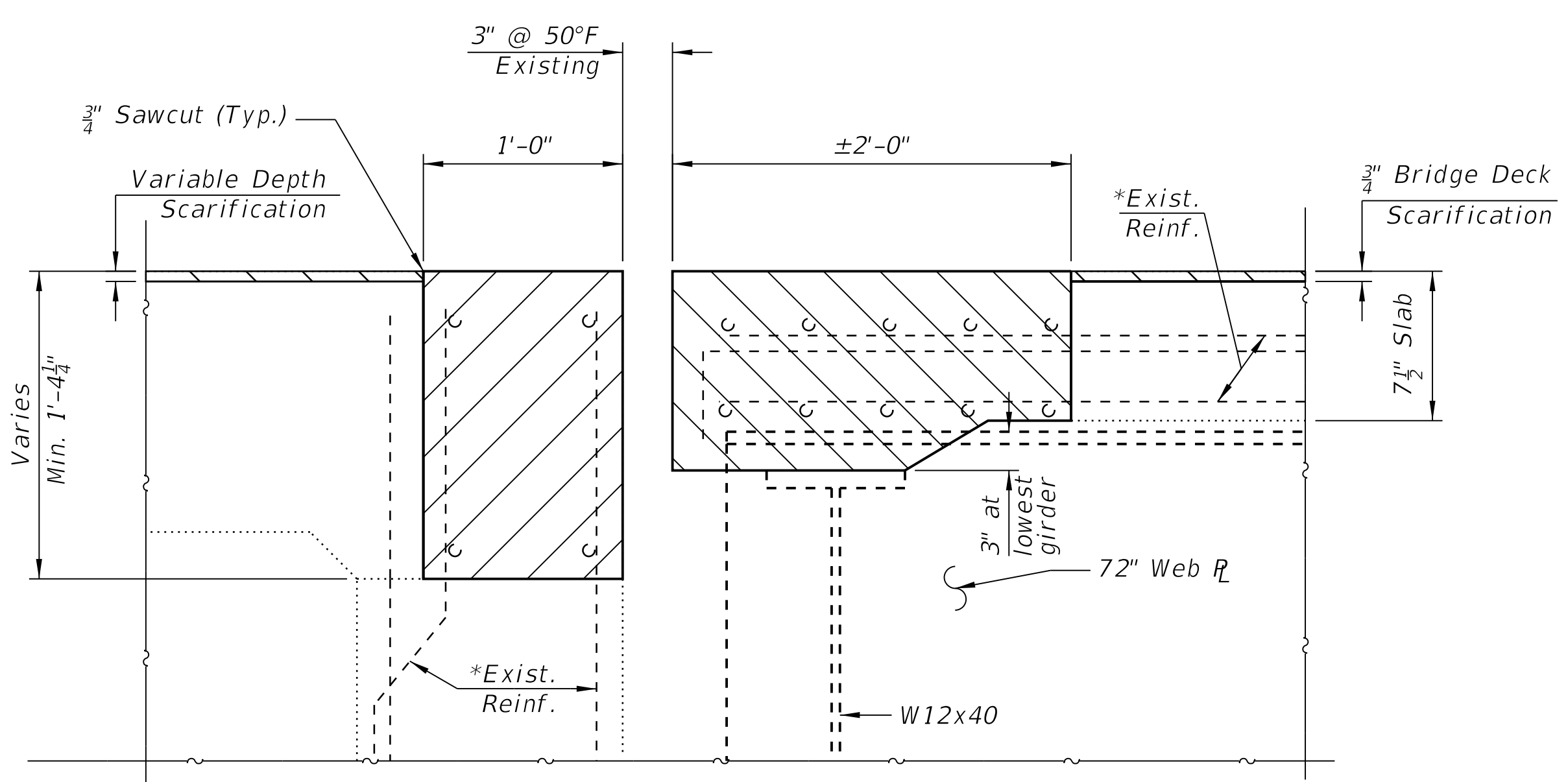
CONCRETE REMOVAL AT NORTH ABUTMENT



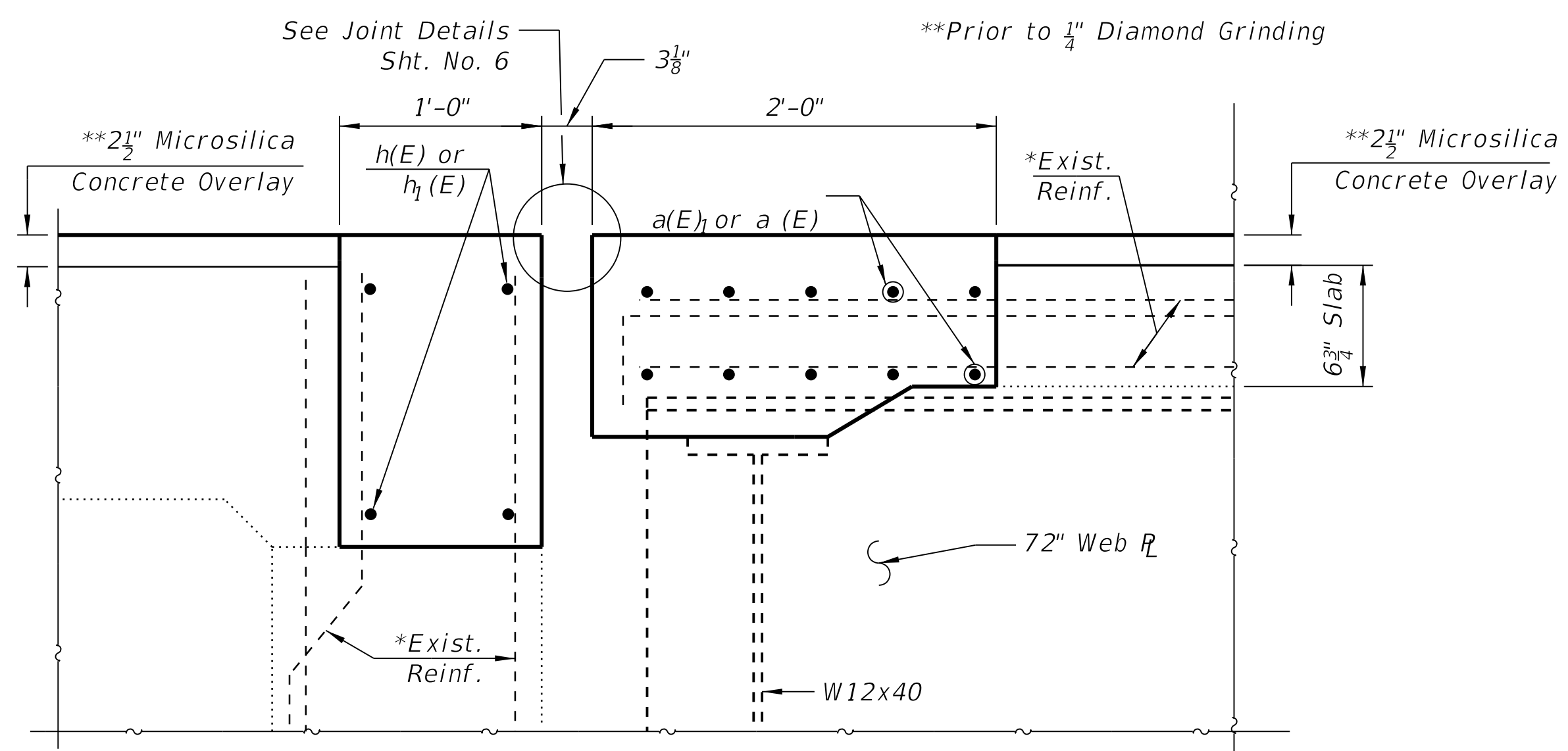
CONCRETE REPLACEMENT AT NORTH ABUTMENT

* Existing reinforcement extending into the removal area shall be cleaned, Straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost shall be included with concrete removal.

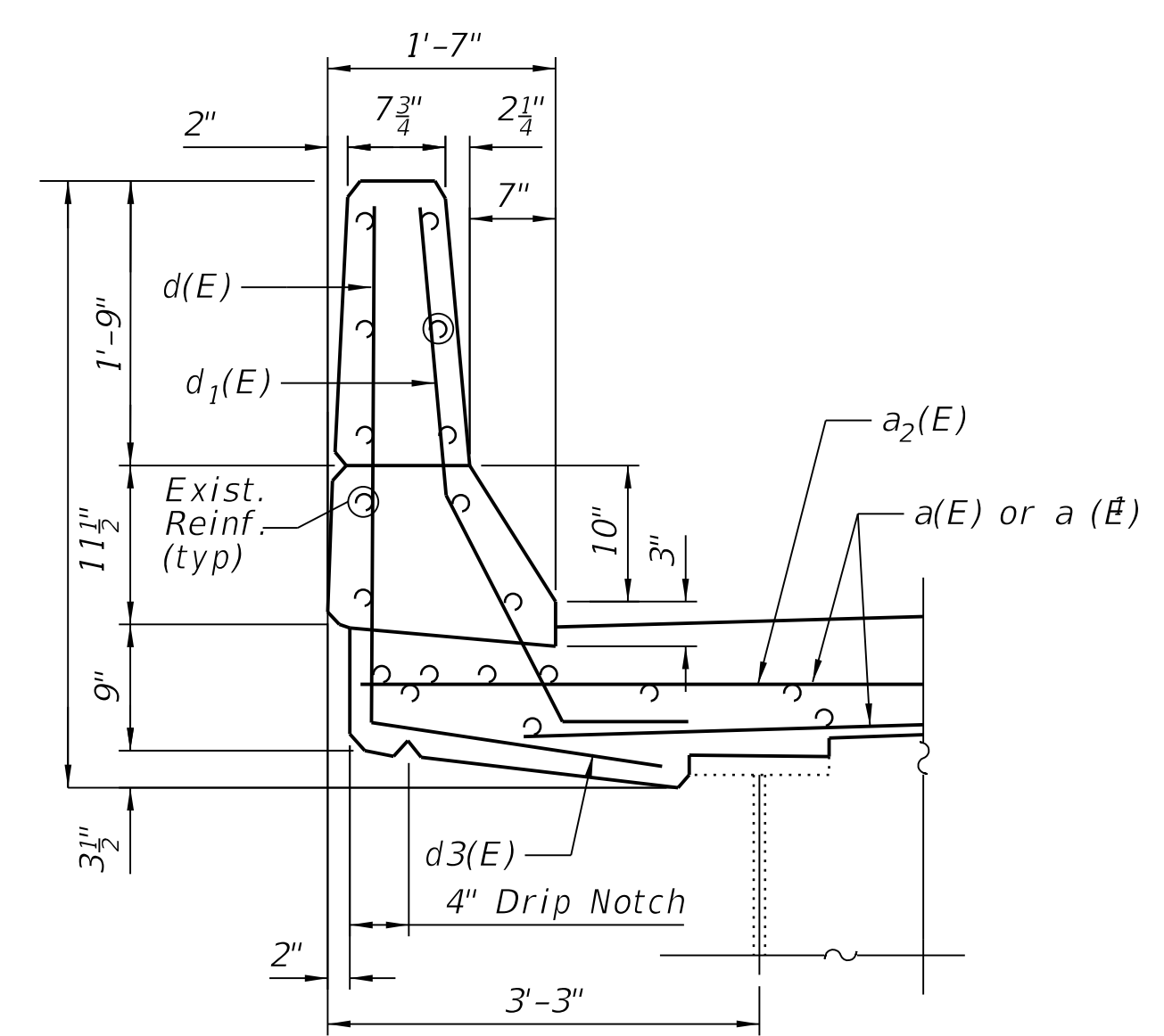
Notes:
Hatched areas indicate concrete removal.
Cost of replacement of concrete included with concrete superstructure.



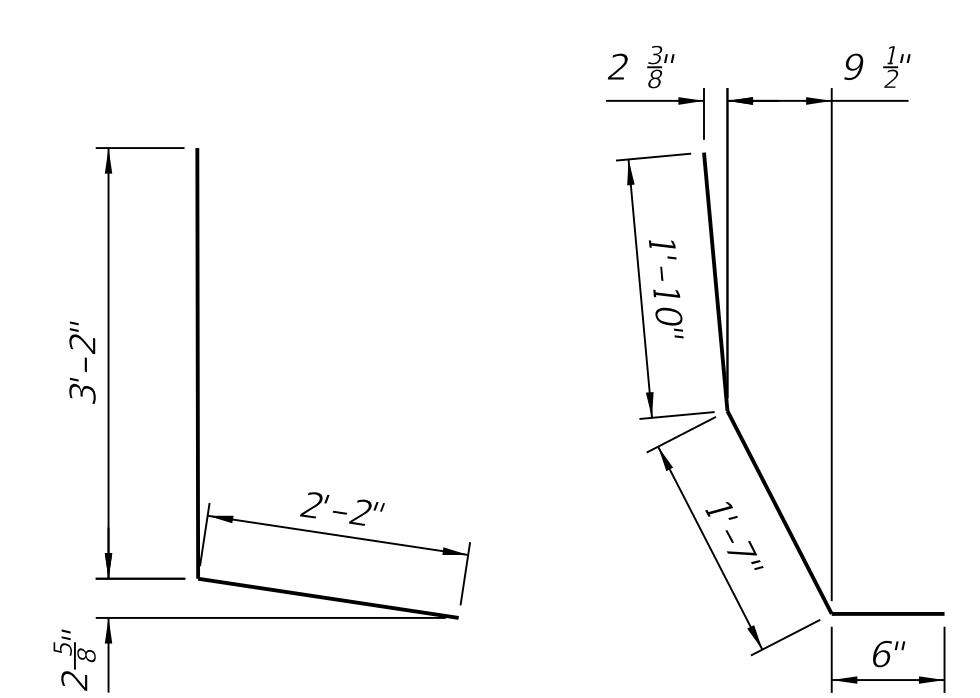
SECTION A-A



SECTION B-B



TYPICAL PARAPET SECTION



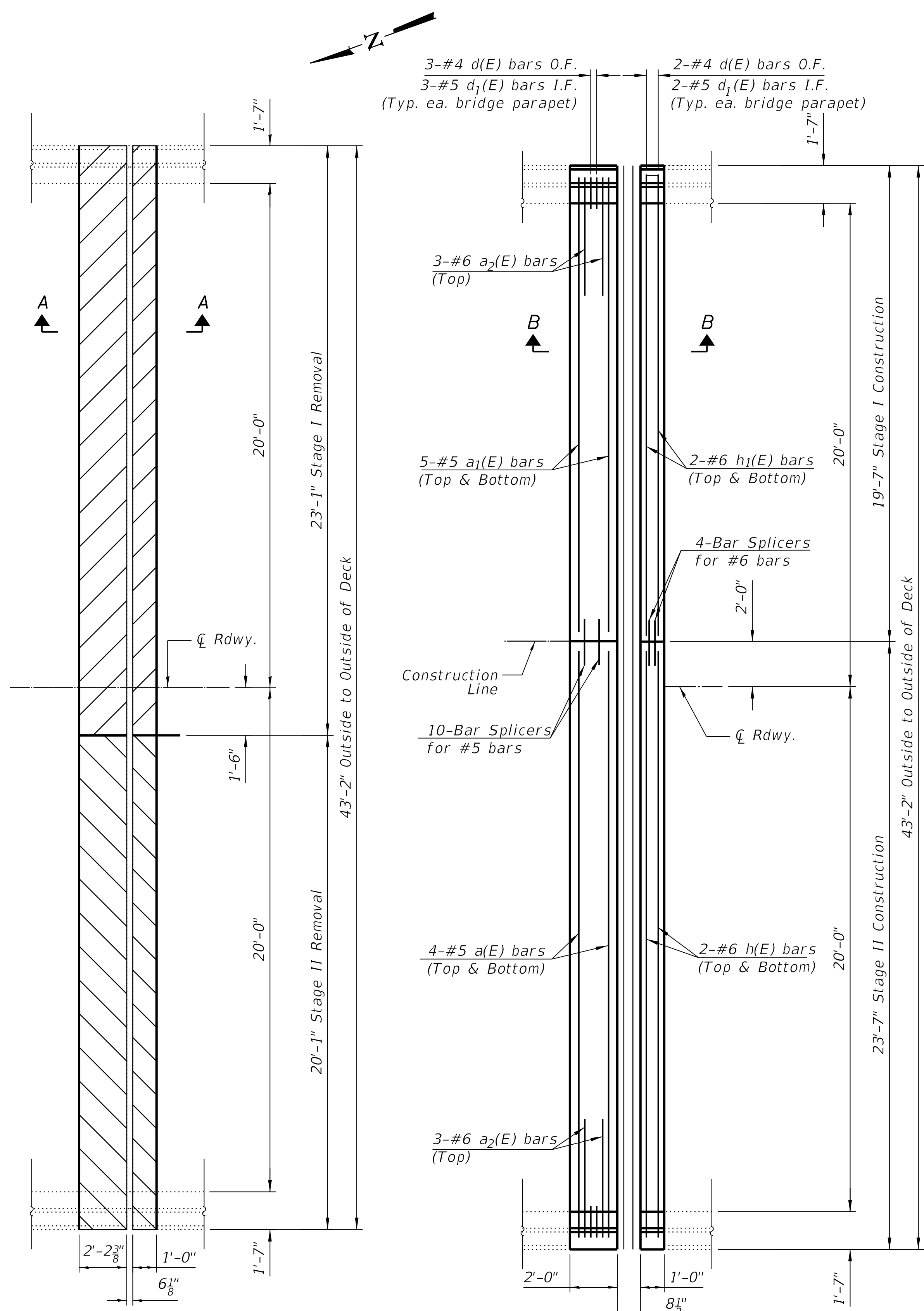
BAR d(E)

BAR d1(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	10	#5	23'-2"	—
a1(E)	10	#5	19'-3"	—
a2(E)	6	#6	4'-0"	—
d(E)	10	#4	5'-4"	L
d1(E)	10	#5	3'-11"	L
h(E)	4	#6	23'-2"	—
h1(E)	4	#6	19'-3"	—
Concrete Removal		Cu Yd	4.6	
Concrete Superstructure		Cu Yd	5.5	
Bar Splicers		Each	14	
Reinforcement Bars, Epoxy Coated		Pound	705	

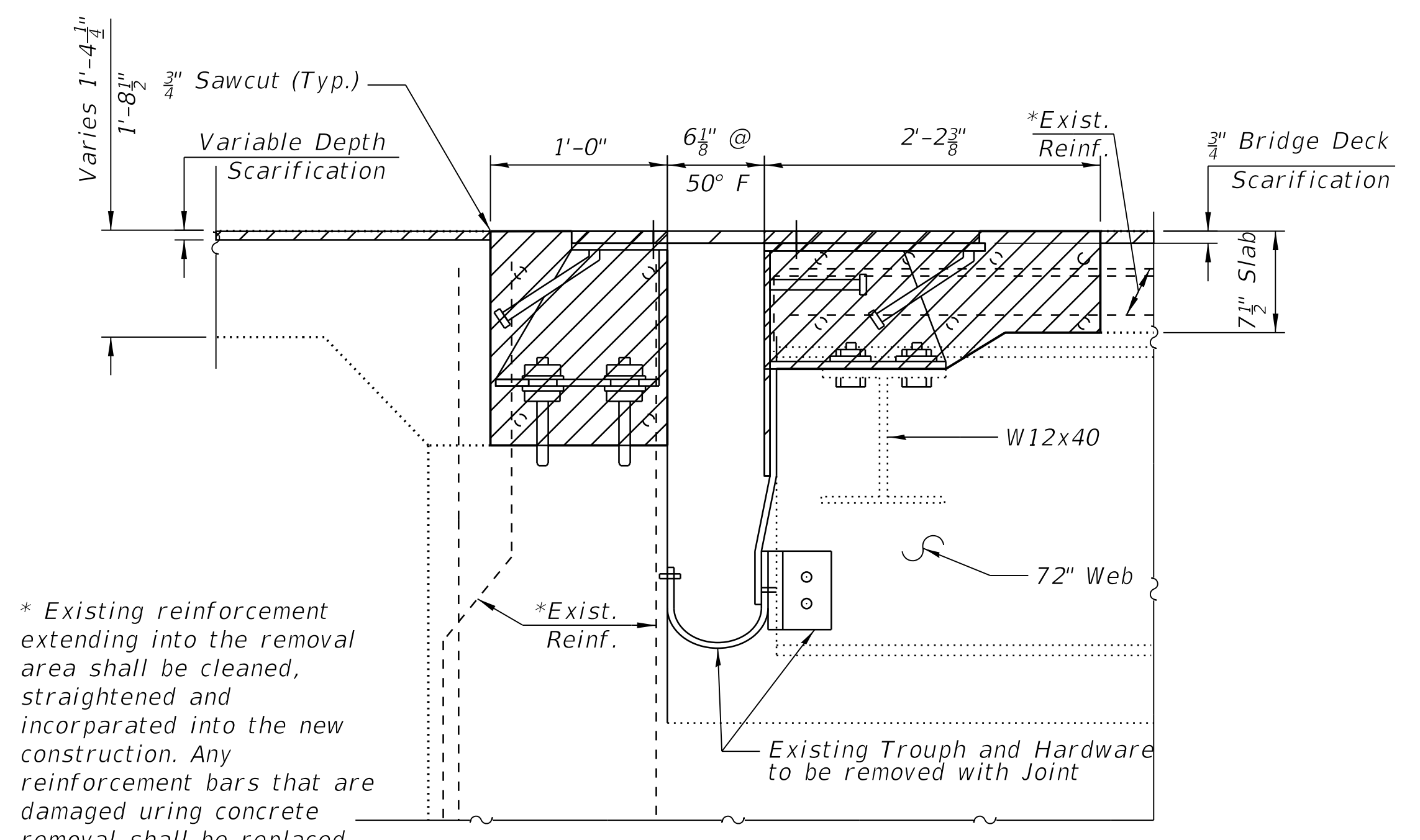
Reinforcement bars designated (E) shall be epoxy coated.



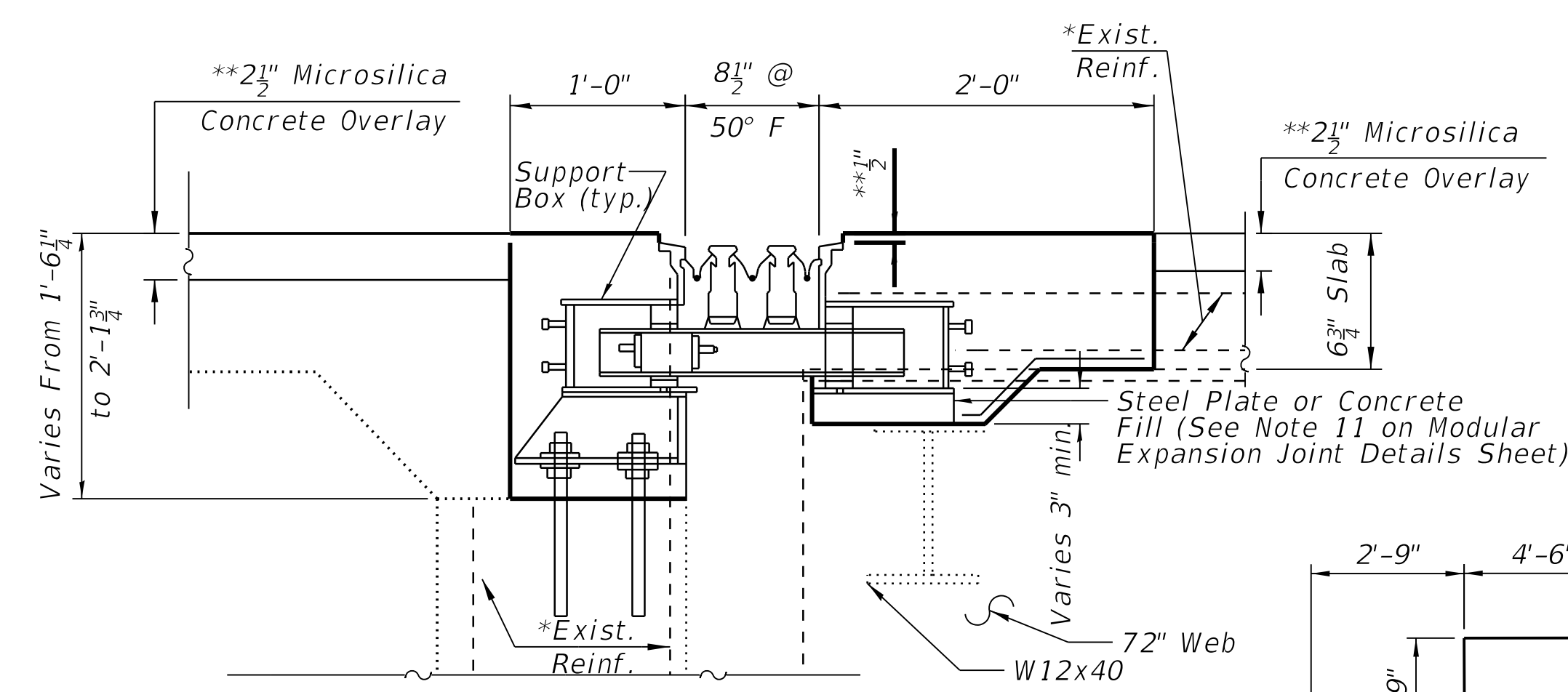
CONCRETE REMOVAL AT SOUTH ABUTMENT

CONCRETE REPLACEMENT AT SOUTH ABUTMENT

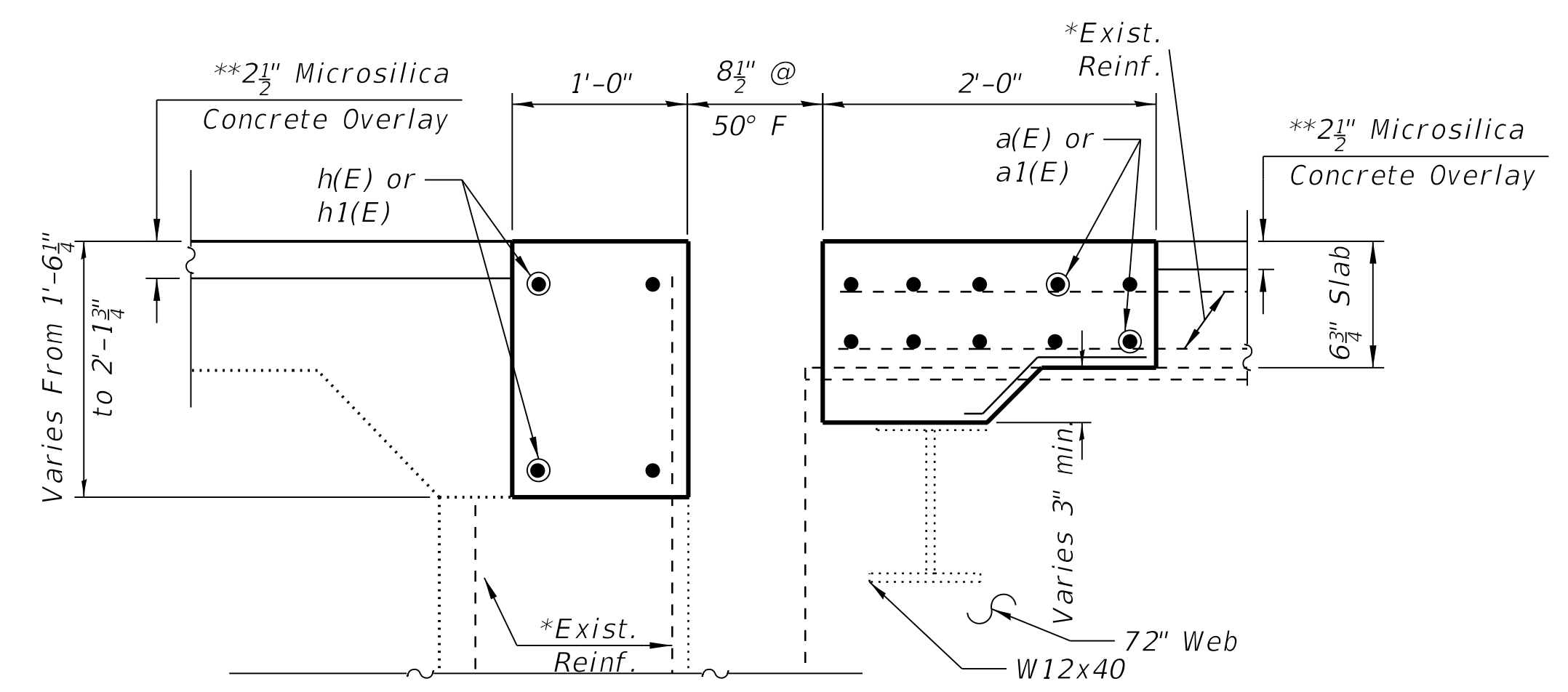
Notes:
 Hatched areas indicated concrete removal.
 Cost of replacement of concrete included with concrete superstructure.



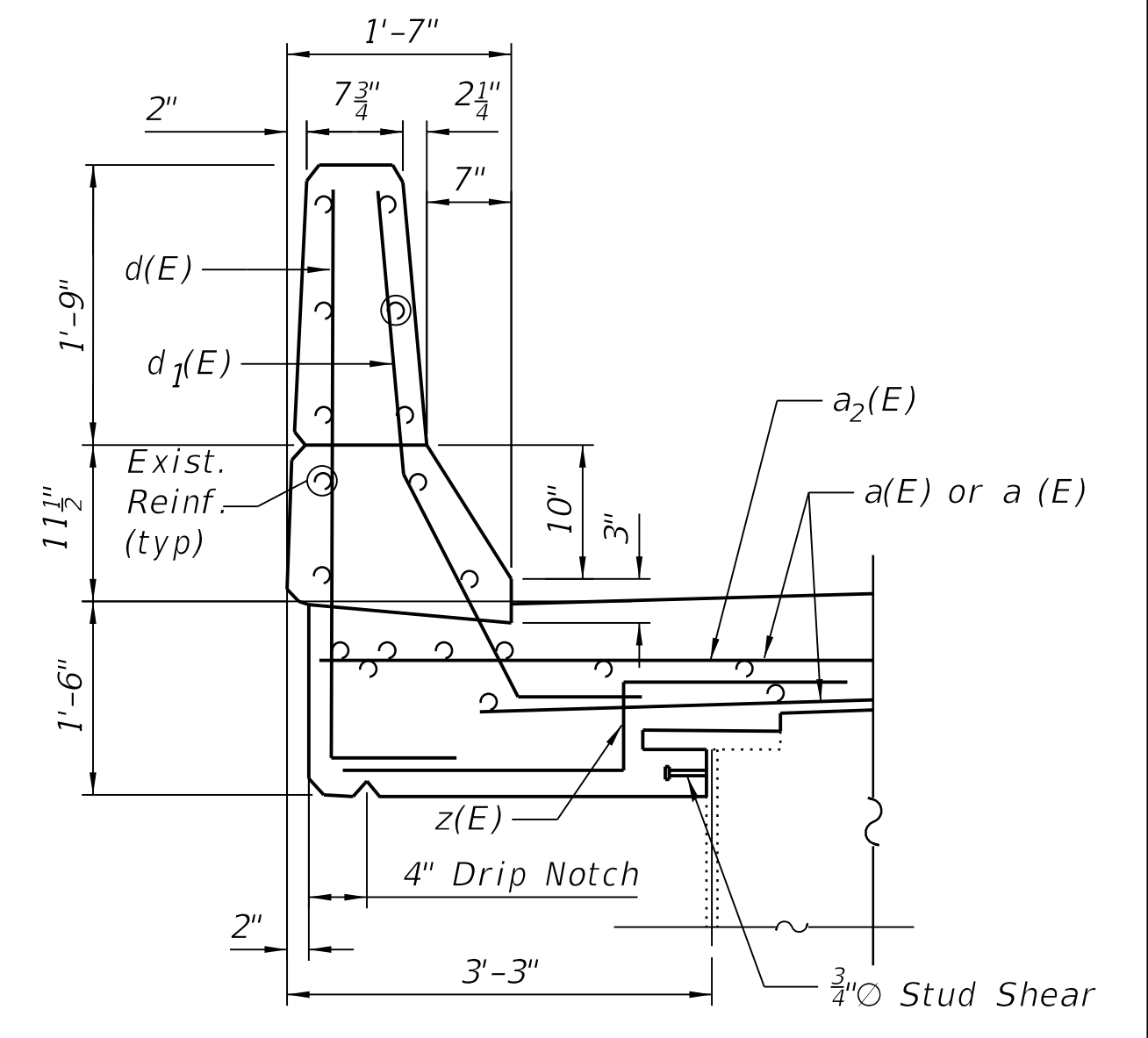
SECTION A-A



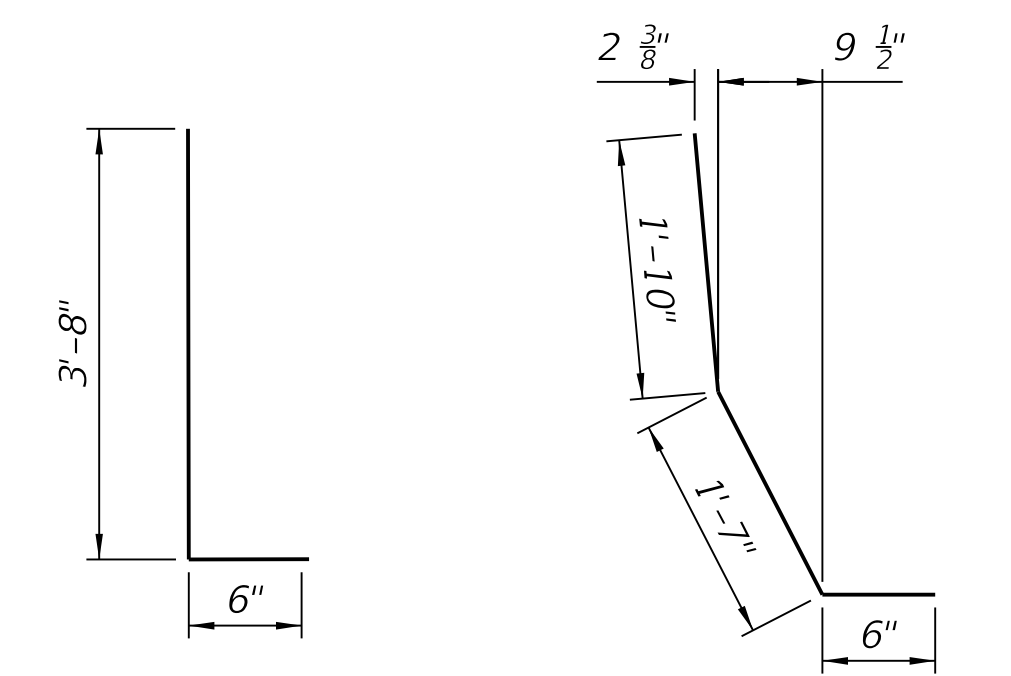
SECTION B-B
(Reinforcement not shown for clarity)



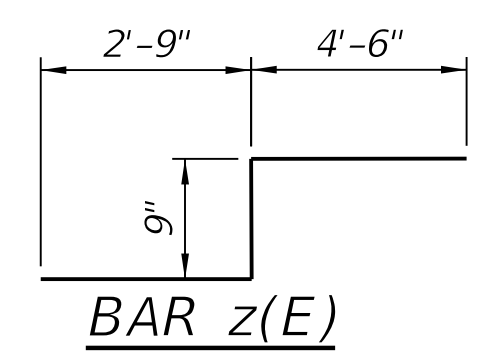
SECTION B-B
(Modular Joint not shown for clarity)



TYPICAL PARAPET SECTION AT ABUTMENTS



BAR d(E) **BAR d1(E)**



BAR z(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	10	#5	23'-2"	—
a1(E)	10	#5	19'-3"	—
a2(E)	6	#6	4'-0"	—
d(E)	10	#4	4'-2"	L
d1(E)	10	#5	3'-11"	L
h1(E)	4	#6	19'-3"	—
h(E)	4	#6	23'-2"	—
z(E)	10	#6	8'-0"	—
Concrete Removal			Cu Yd	4.6
Concrete Superstructure			Cu Yd	5.5
Bar Splicers			Each	14
Reinforcement Bars, Epoxy Coated			Pound	705

Reinforcement bars designated (E) shall be epoxy coated.

FILE NAME = G:\Team Drives\Projects\2016-0802_02_IDOT\110_WerA_OrDer_11\CADD\SHEET\0264N32-SHT22-SOUTH ABUTMENT JOINT.dgn

WYNDALCO ENTERPRISES
 19081 Old LaGrange Rd, Ste. 106
 Mokena, IL 60448
 312.256.9090

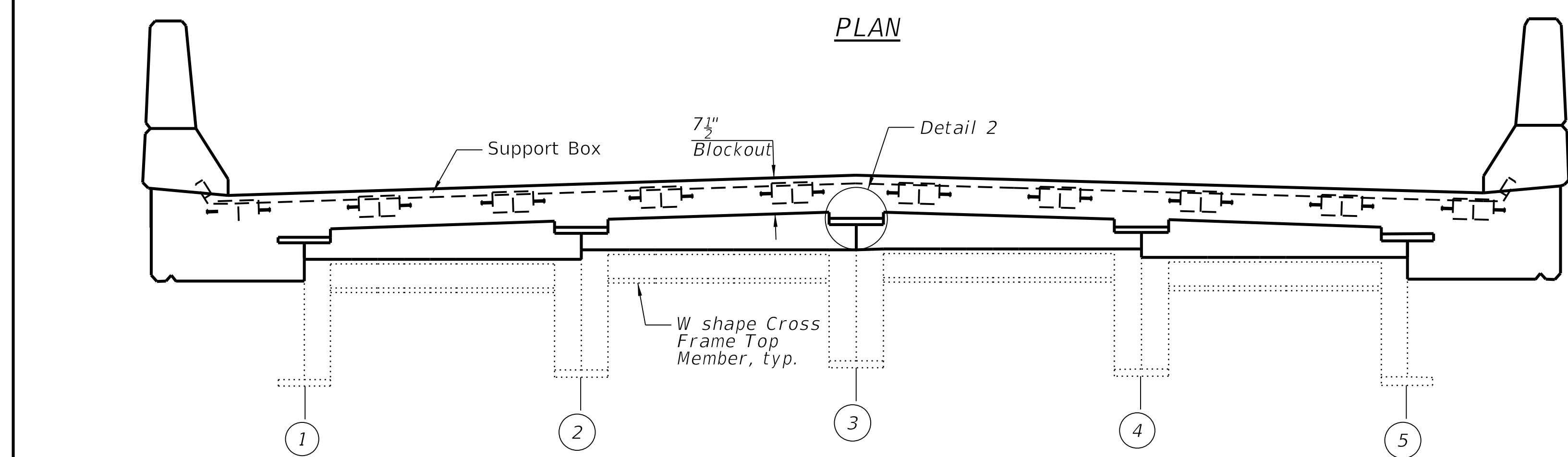
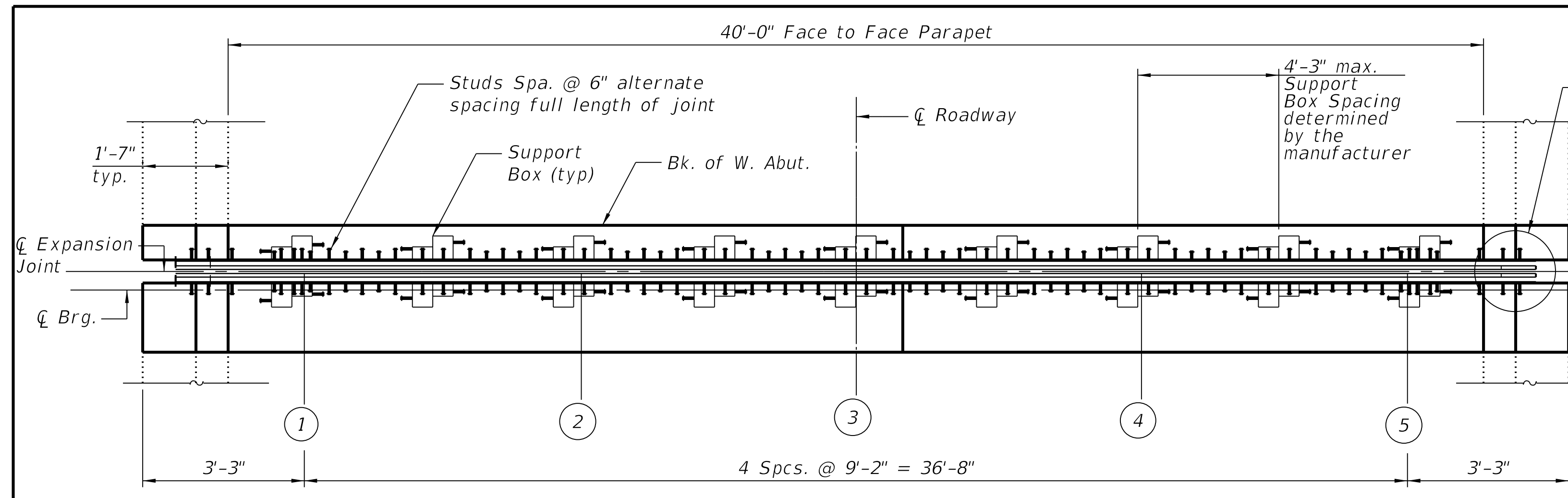
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PLOT SCALE =	CHECKED - MJL	REVISIONS
PLOT DATE = 5/23/2019	DRAWN - SHP	REVISIONS
	CHECKED - MJL	REVISIONS

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

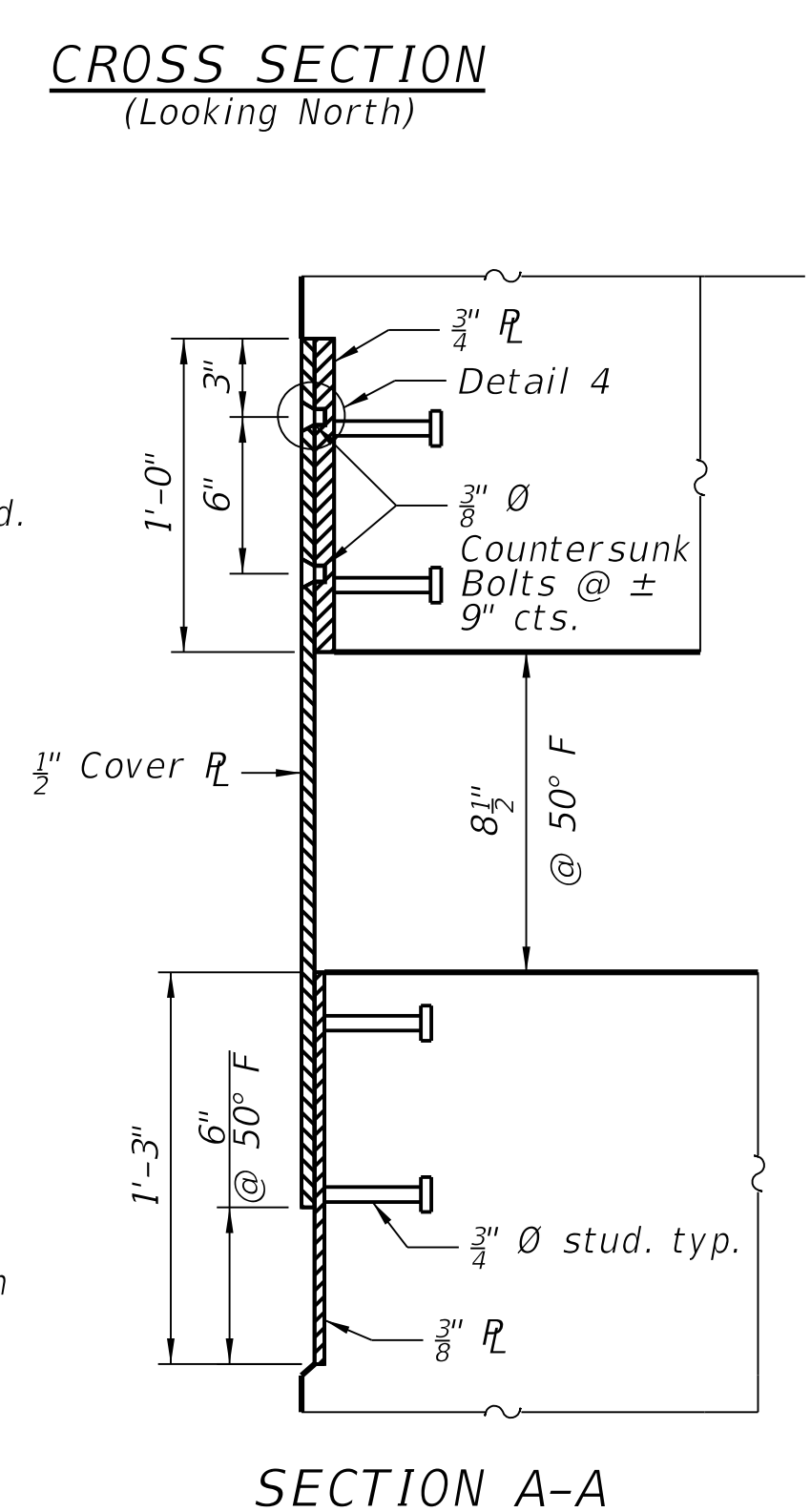
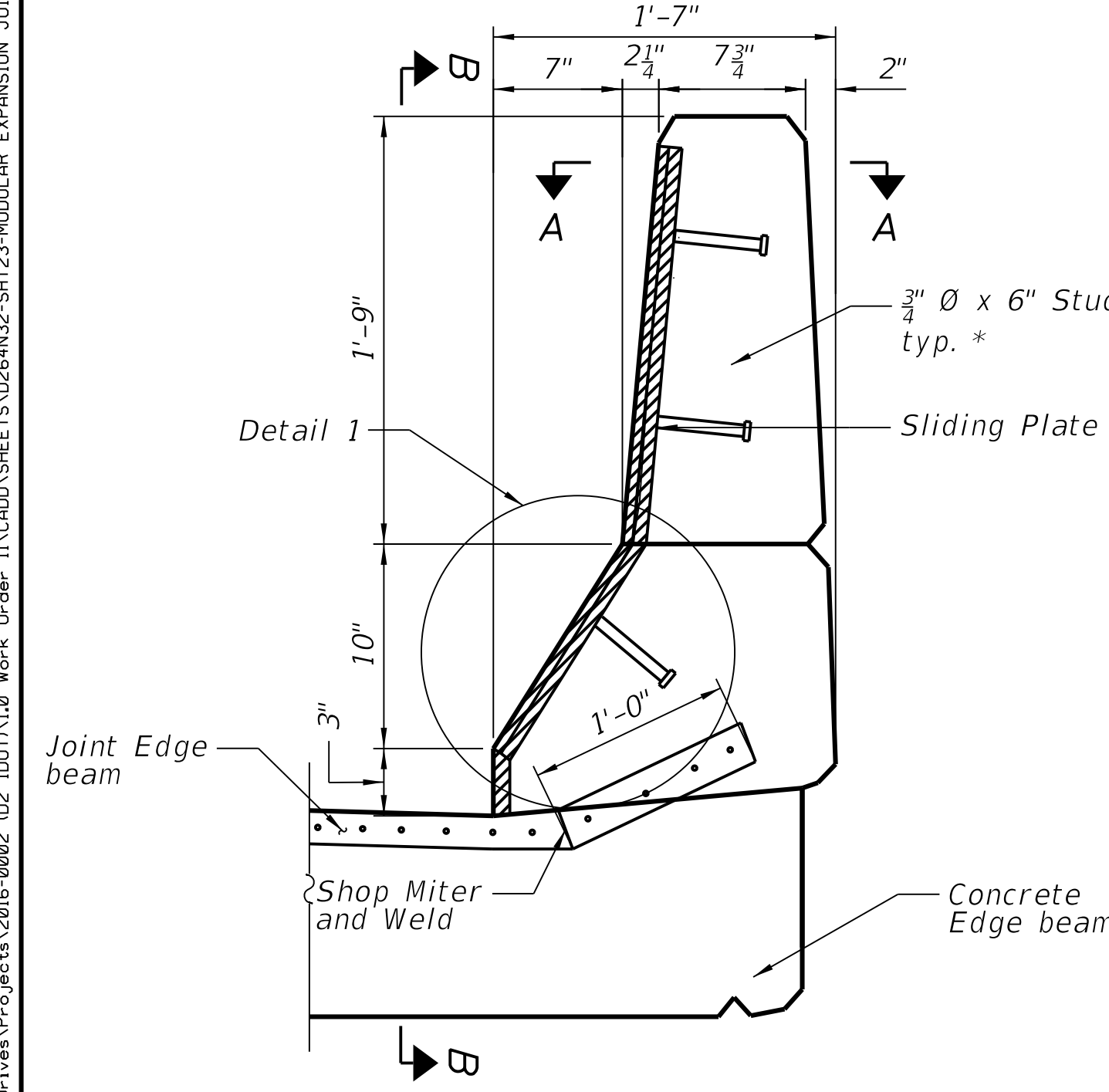
JOINT REPLACEMENT SOUTH ABUTMENT SN 098-0100

SHEET NO. 4 OF 9 SHEETS

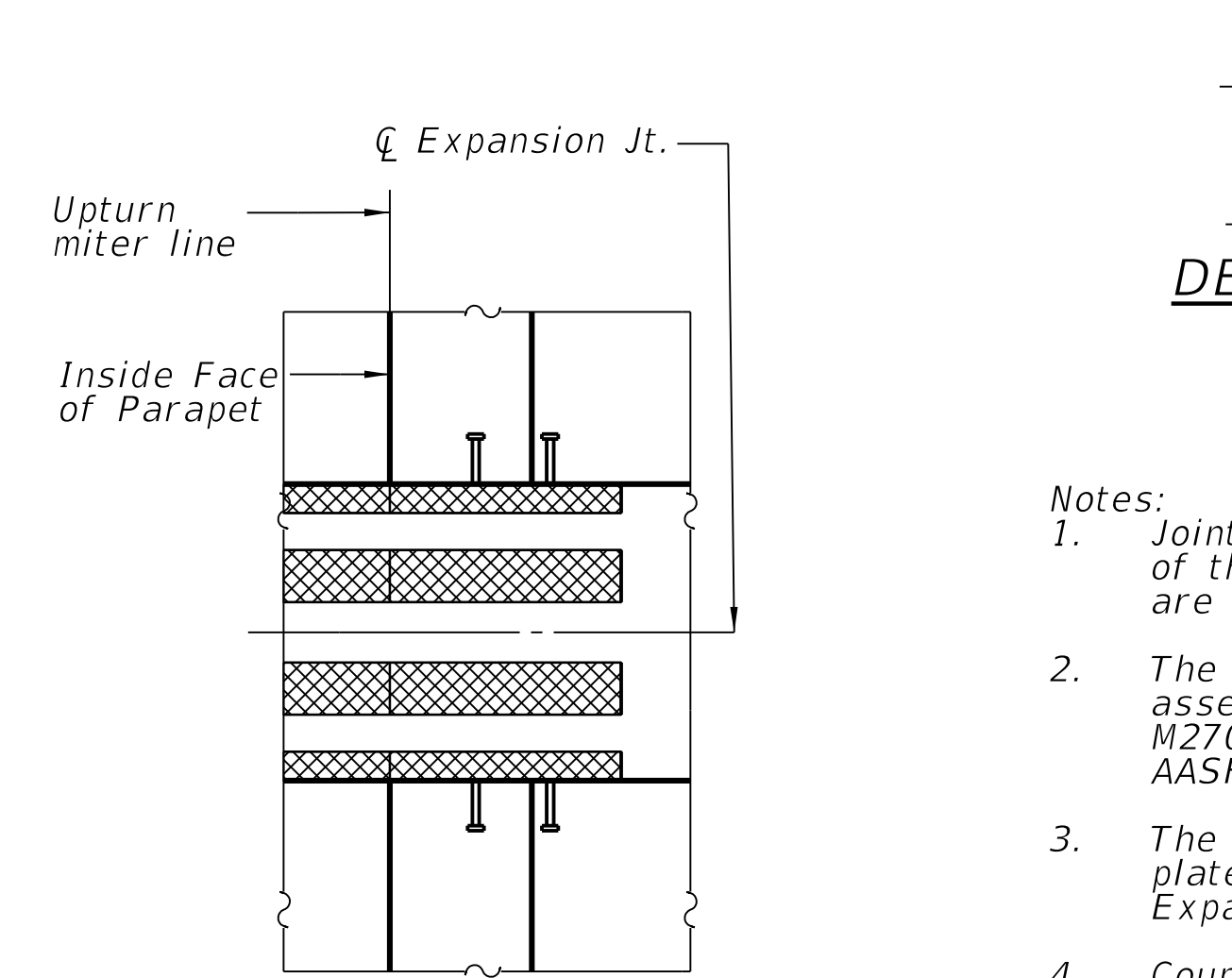
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	(16BR)BDR	WHITESIDE	27	22
CONTRACT NO. 64N32				
ILLINOIS FED. AID PROJECT				



* Granular or Solid flux filled headed stud conforming to Article 1006.32 of the Standard Specifications. Automatically end welded.



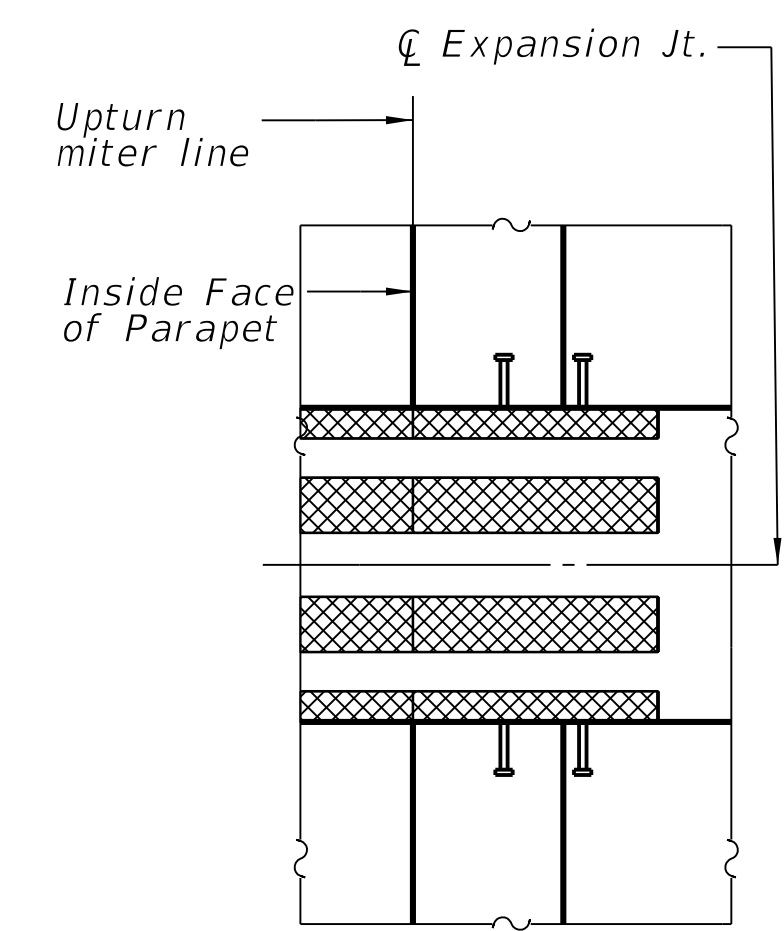
DETAIL 1



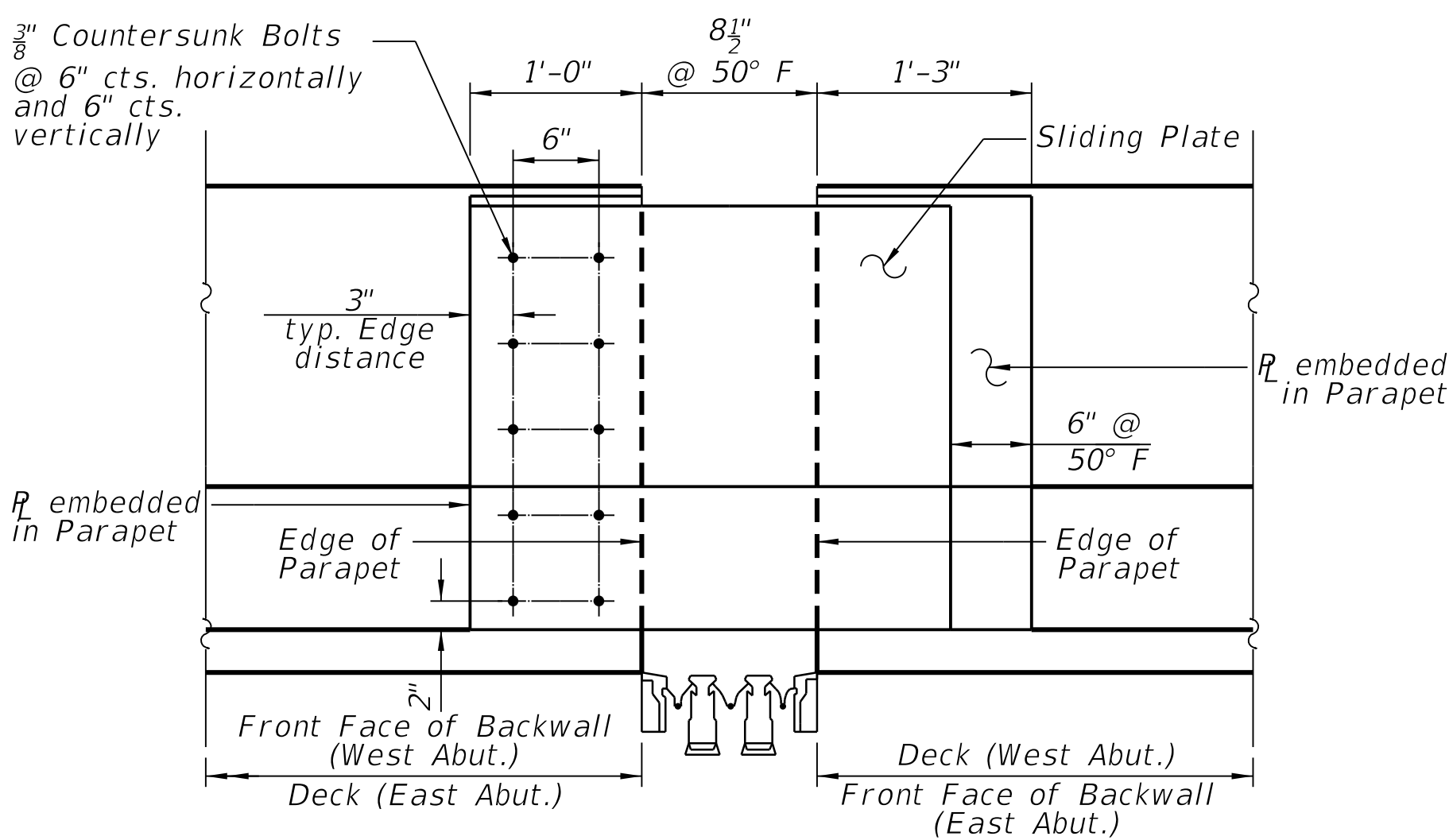
Place Non-Shrink Grout between underside of Girder Flange and Blockout prior to placing concrete in Blockout

Note "A": Joint manufacturer shall design joint anchor stud location to miss the girder's end shear studs.

DETAIL 4



DETAIL 3



ELEVATION VIEW B-B
South Parapet Shown (Looking South)
North Parapet similar

- Notes:
- Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the concrete breakouts are cast at an ambient temperature other than 50° F.
 - The structural steel plates of the parapet sliding plate assemblies shall conform to the requirements of AASHTO M270 Grade 50, and be hot-dipped galvanized according to AASHTO M111 after fabrication.
 - The cost of furnishing and installing the parapet sliding plate assemblies is included in the cost of Modular Expansion Joint of the size shown.
 - Countersunk bolts shall be in accordance with ASTM A307, Grade A.
 - Countersunk bolts and concrete inserts shall be hot-dipped galvanized according to AASHTO M232.
 - Concrete anchor studs shall be in accordance with Article 1006.32 of the Standard Specifications.
 - The modular joints shall be fabricated to conform to the roadway profile and cross slope.
 - Support box size and spacing to be determined by manufacturer. Support boxes must be spaced clear of girders to avoid interference. Girder flange may be coped as shown.
 - Modular expansion joints shall be assembled in their final relative position with the ends in place for shop inspection and acceptance.
 - Blockouts areas to be poured after superstructure falsework has been removed and modular joint is fixed in position. Quantity of concrete is included with High Performance Concrete superstructure.
 - Prior to placement of the joint blockout, the Contractor shall coordinate with the Modular Joint Manufacturer to ensure that the joint will be properly supported and that the reinforcement bars will not interfere with the joint components. Any necessary adjustments to the reinforcement layout shall be submitted to the Engineer for approval.

BILL OF MATERIAL

Item	Unit	Total
Modular Expansion Joint 9"	Foot	45

WYNN DALCO ENTERPRISES
19081 Old LaGrange Rd, Ste. 106
Mokena, IL 60448
312.256.9090

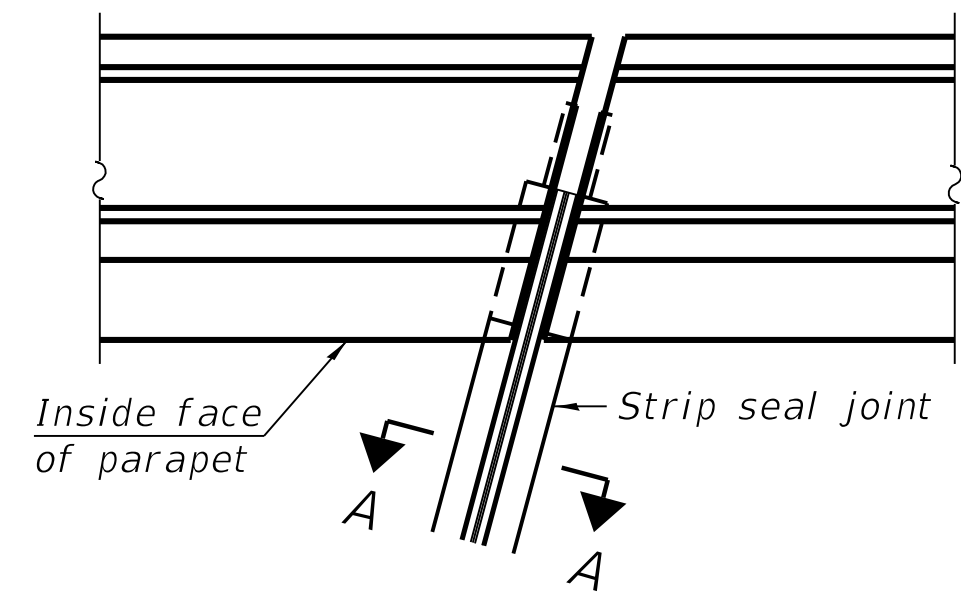
USER NAME = Yun Kim	DESIGNED - SHP	REVISIONS
PLOT SCALE =	CHECKED - MJL	REVISIONS
PLOT DATE = 5/23/2019	DRAWN - SHP	REVISIONS
	CHECKED - MJL	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MODULAR EXPANSION JOINT DETAILS
SN 098-0100

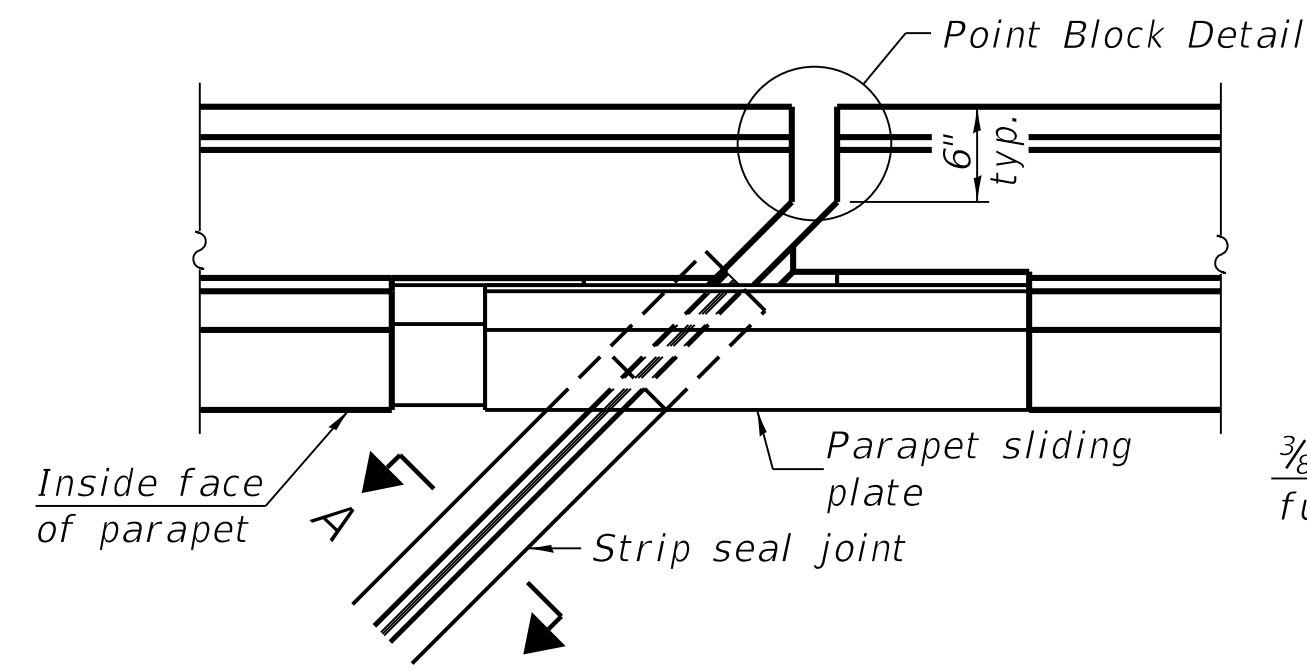
SHEET NO. 5 OF 9 SHEETS

F.A. RTE. = 22	SECTION = (16BR)BDR	COUNTY = WHITESIDE	TOTAL SHEETS = 27	SHEET NO. = 23
CONTRACT NO. 64N32			ILLINOIS FED. AID PROJECT	

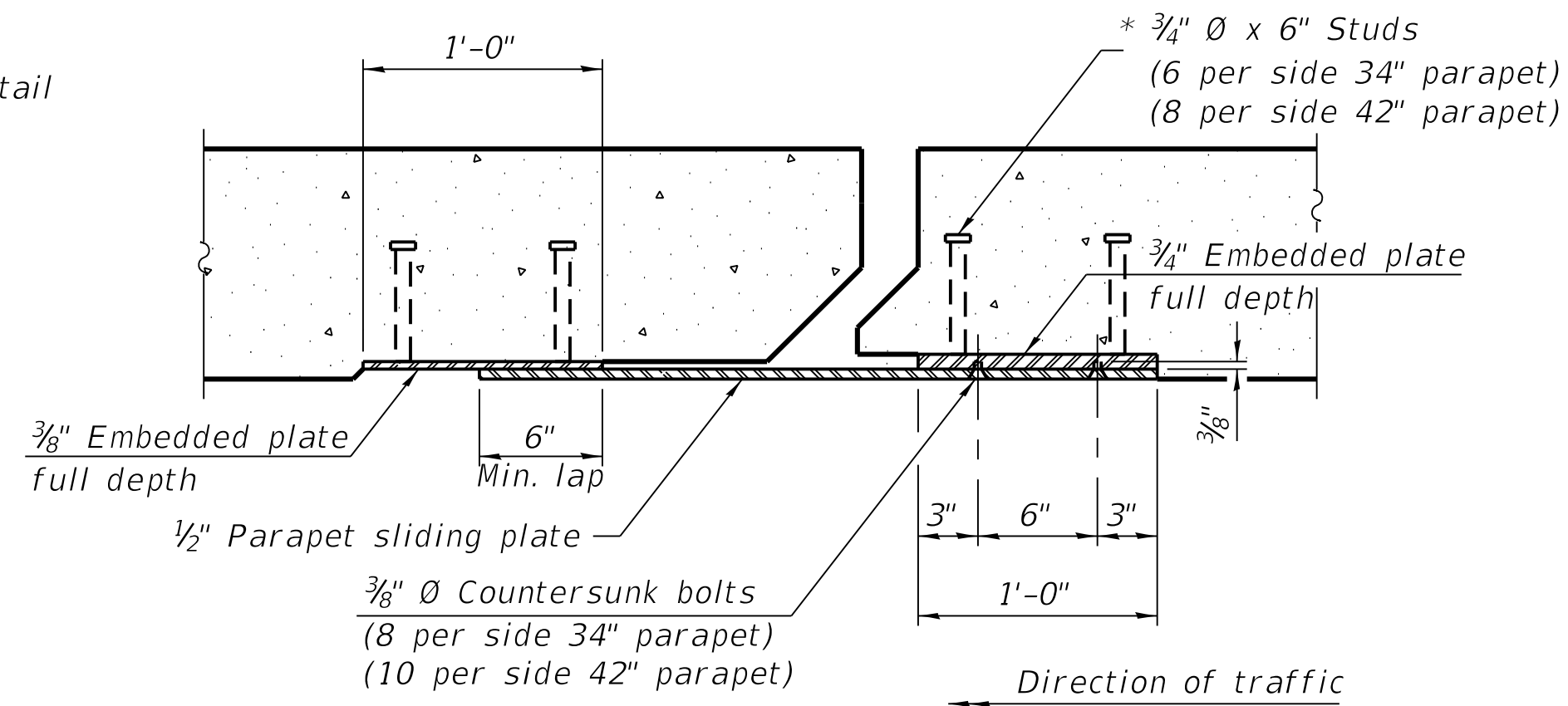


FOR SKEWS $\leq 30^\circ$

PLAN AT PARAPET



FOR SKEWS $> 30^\circ$



SECTION B-B

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

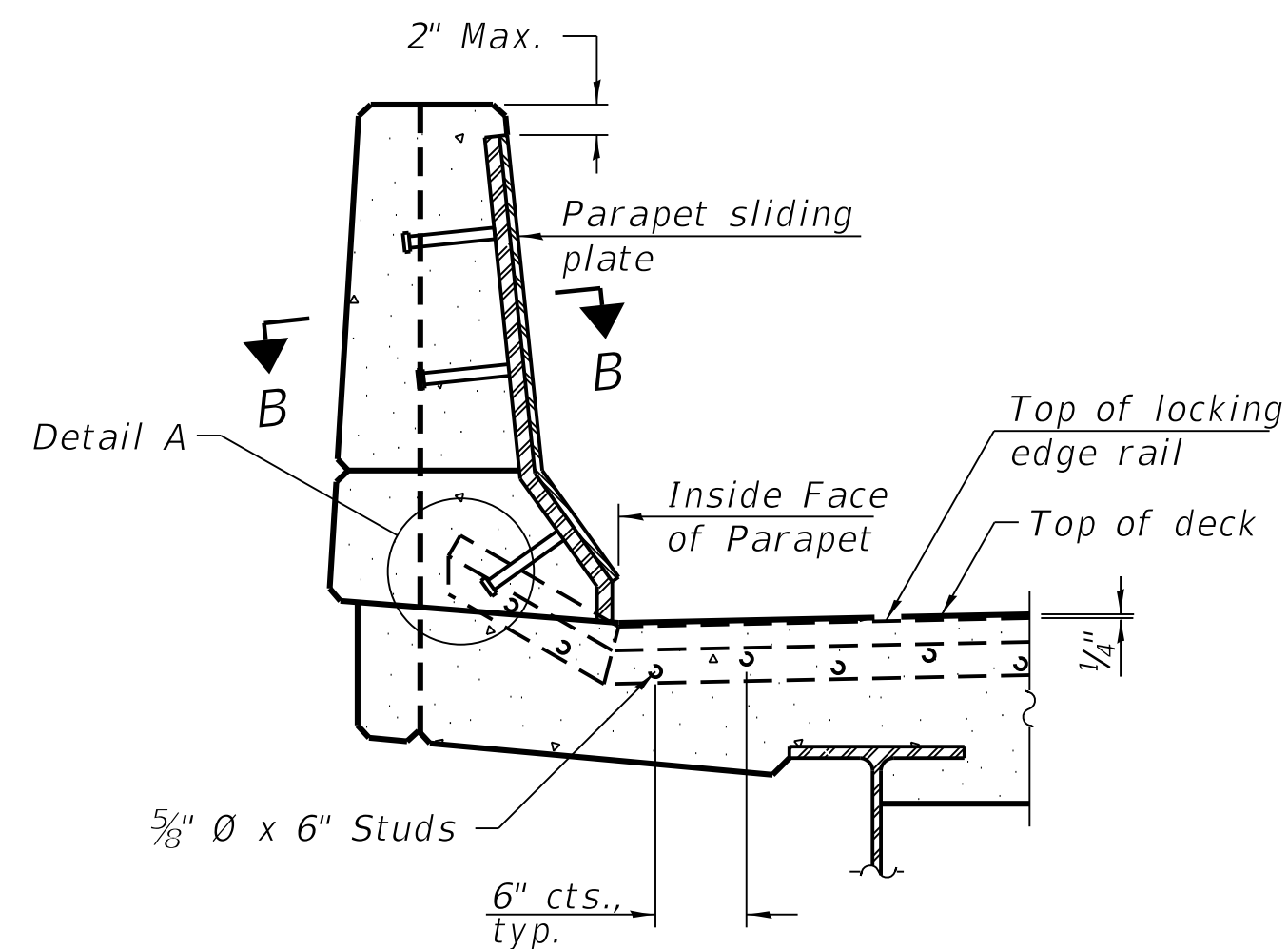
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

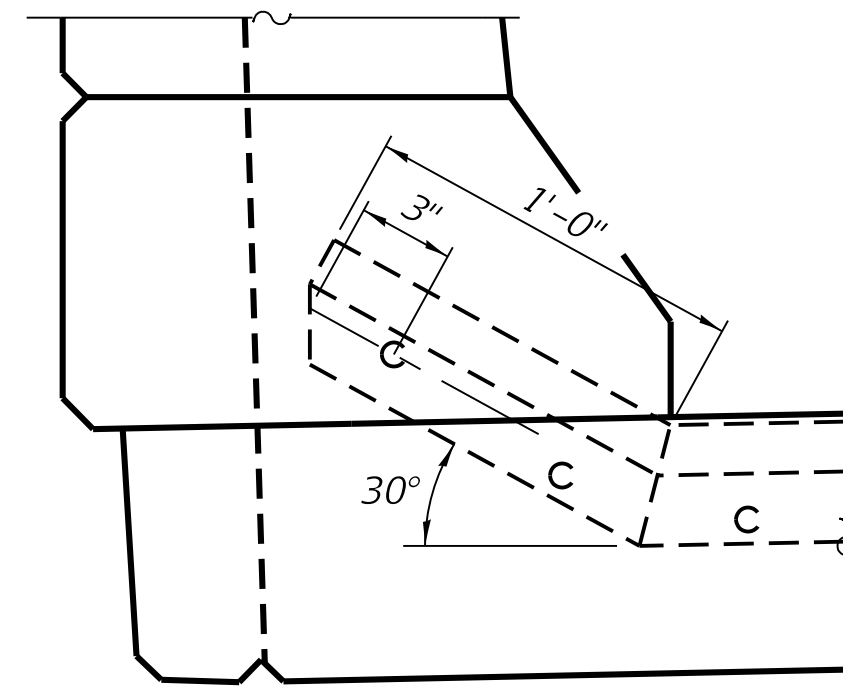
34" F-shape barrier shown, 42" F-shape similar as noted.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

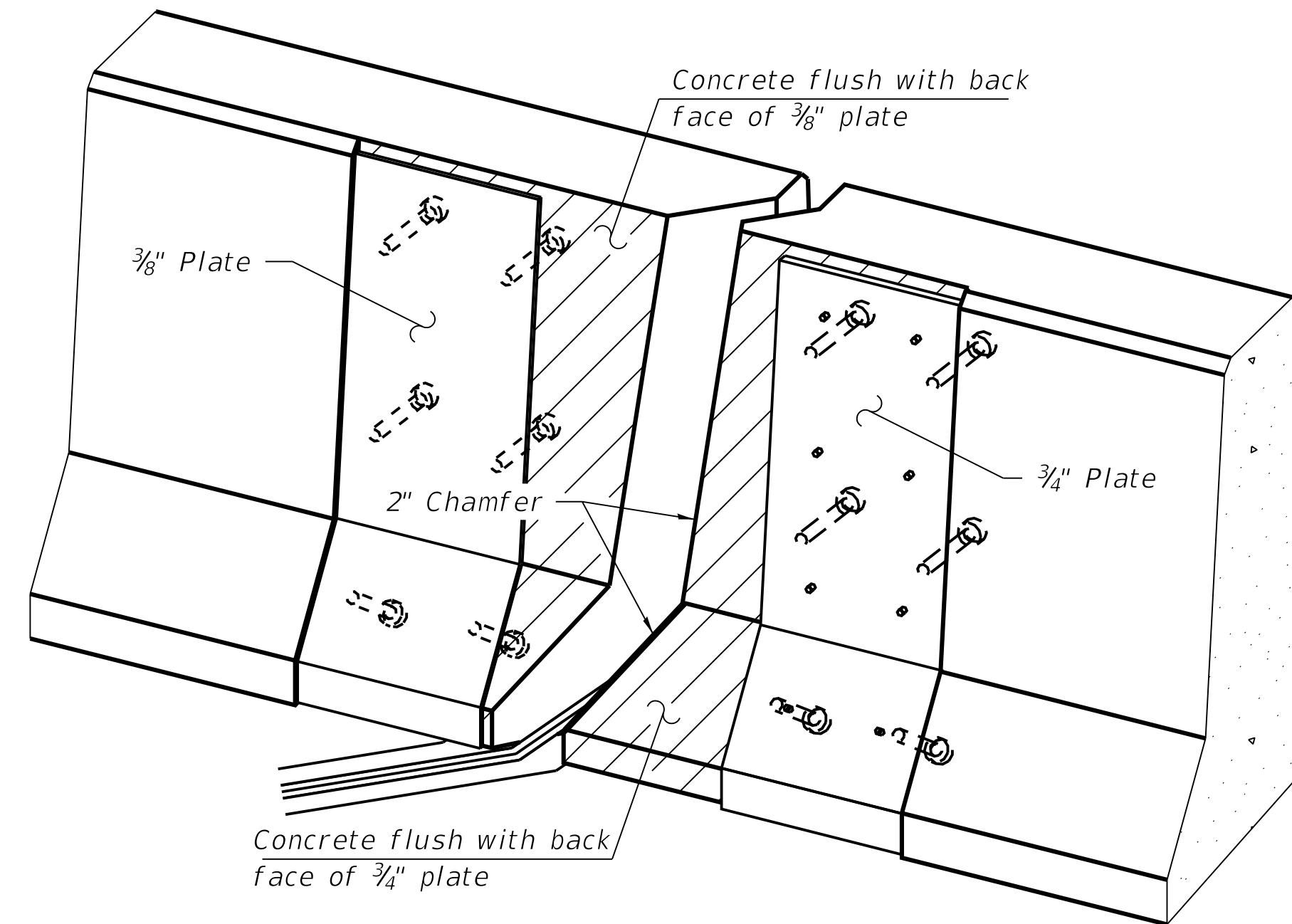


ELEVATION AT PARAPET

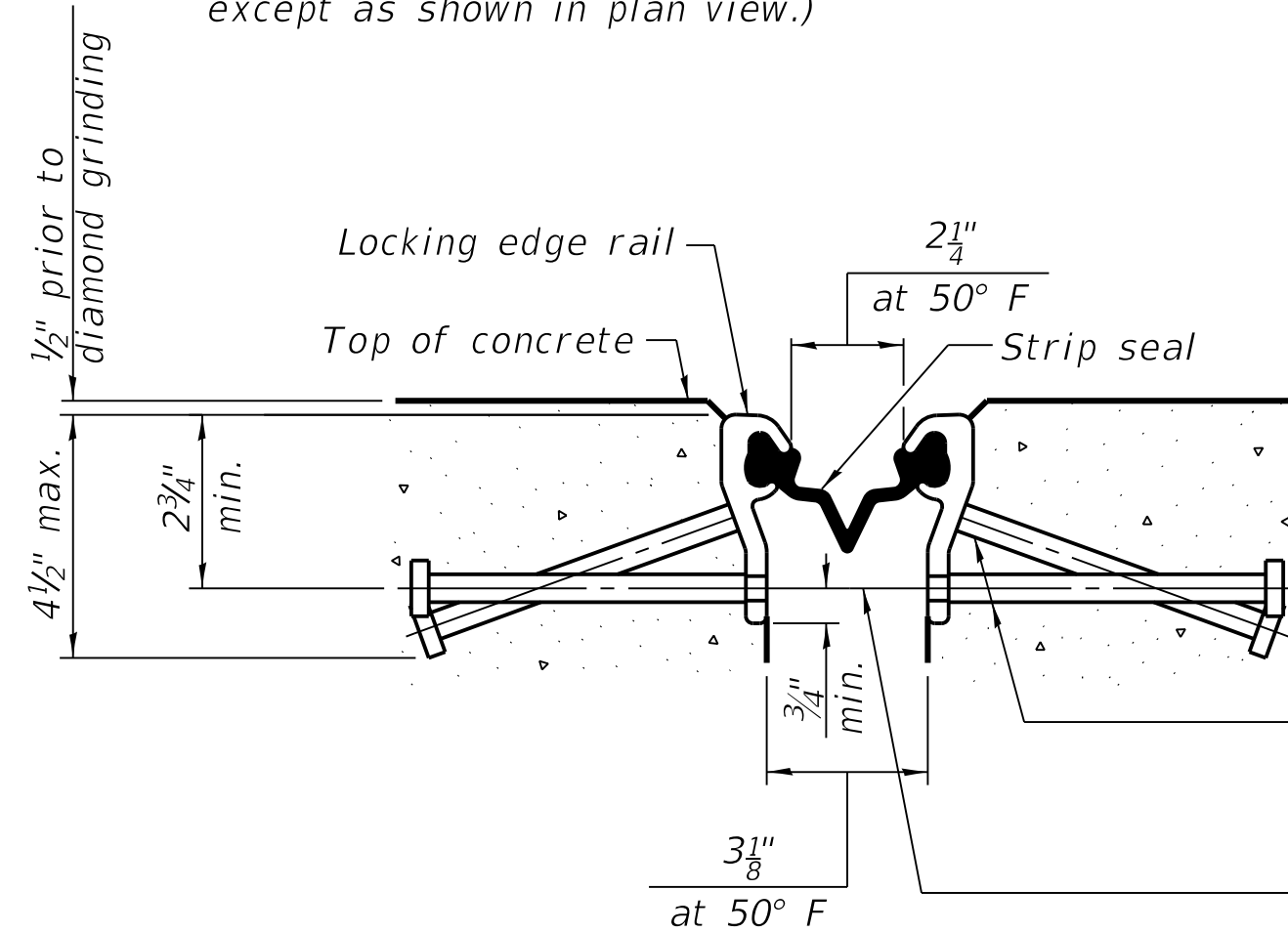
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A



TRIMETRIC VIEW
(Showing embedded plates only)



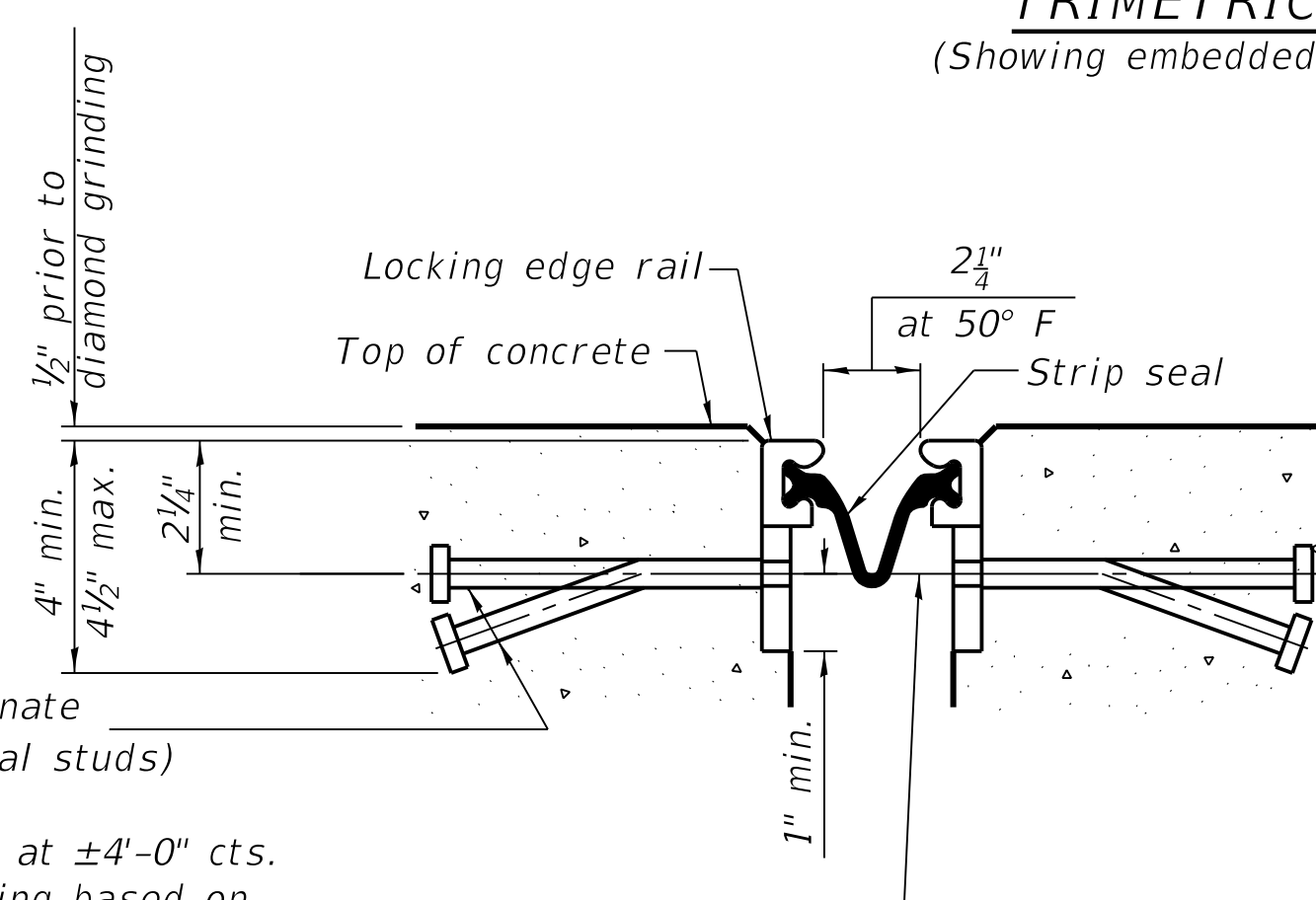
SHOWING ROLLED RAIL JOINT

* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

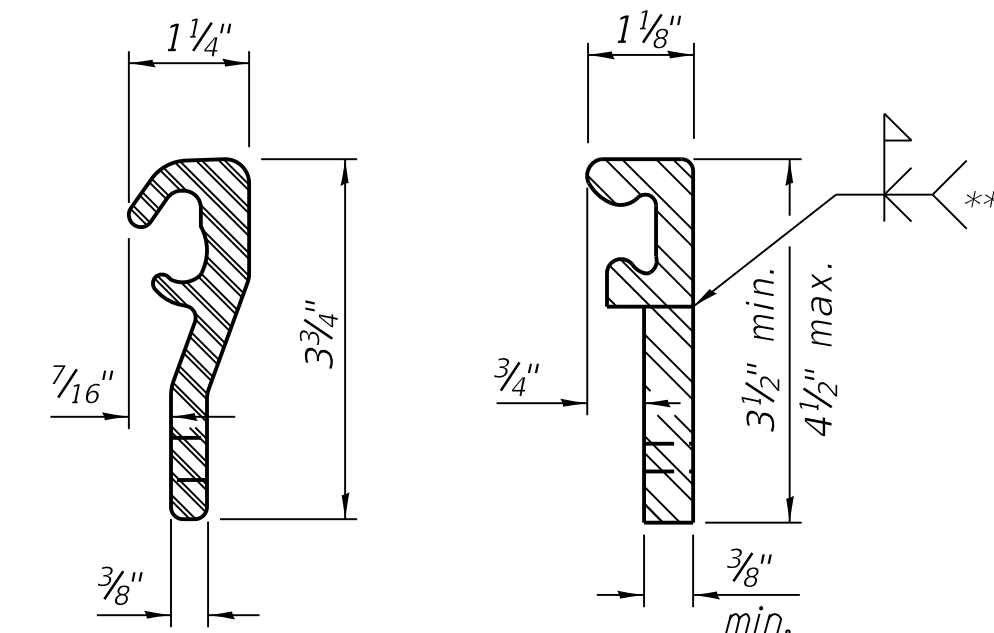
3/8" Ø threaded rods in 7/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



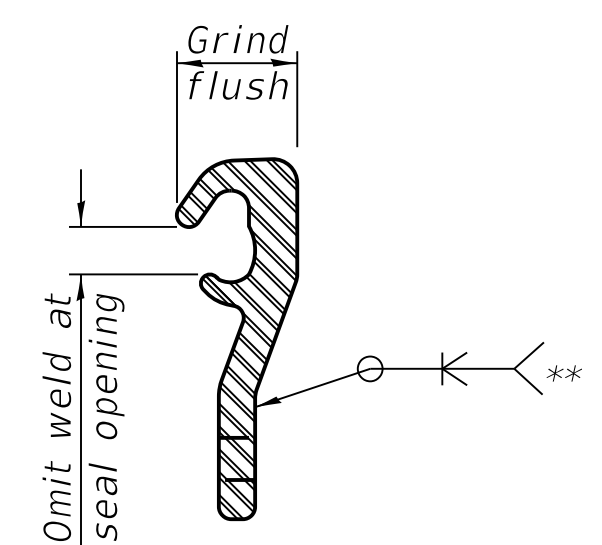
SHOWING WELDED RAIL JOINT



ROLLED (EXTRUDED) RAIL
WELDED RAIL

LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	45

FILE NAME = G:\Team Drives\Projects\2016-0802 ID 1001\110 Work Order\11\CADD\SHEETS\0264N32-SHT24-INT.dgn

EJ-SS

8-11-17

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PLOT SCALE =
PLOT DATE = 5/23/2019

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DRAWN - SHP
CHECKED - MJL
REVISED
REVISED
REVISED
REVISED

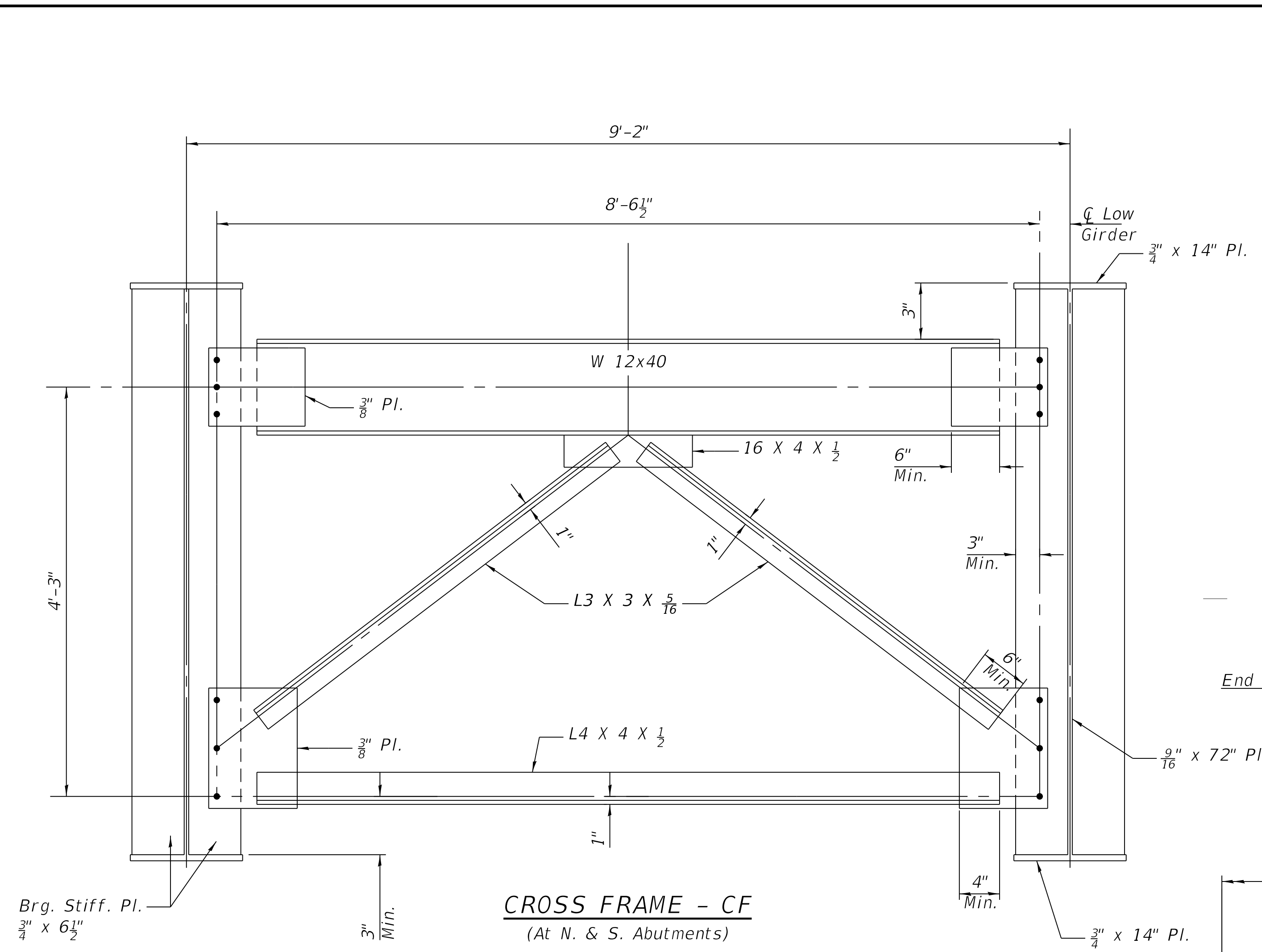
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL DETAILS
SN 098-0100

SHEET NO. 6 OF 9 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	(16BR)BDR	WHITESIDE	27	24
				CONTRACT NO. 64N32
ILLINOIS FED. AID PROJECT				

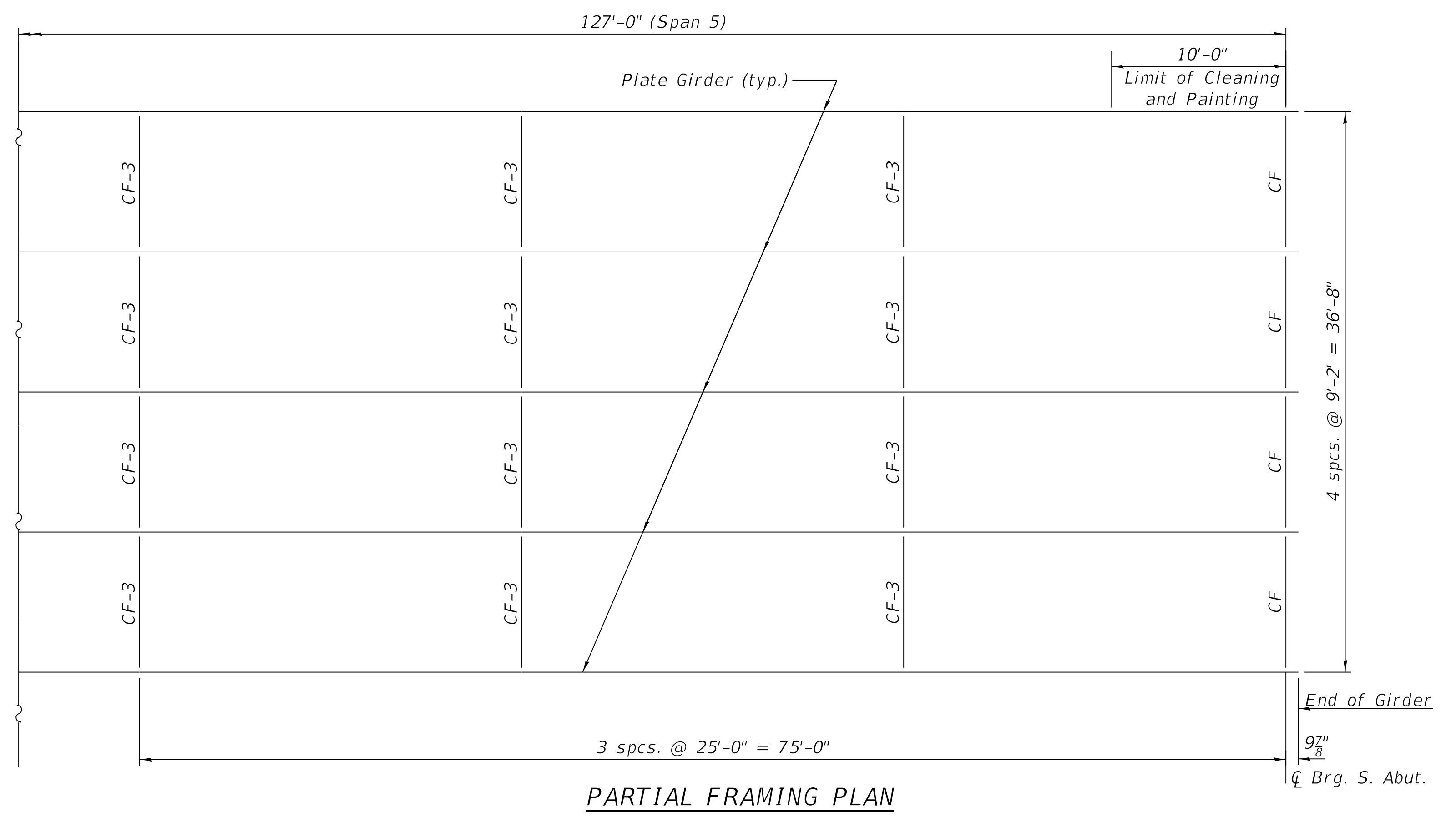
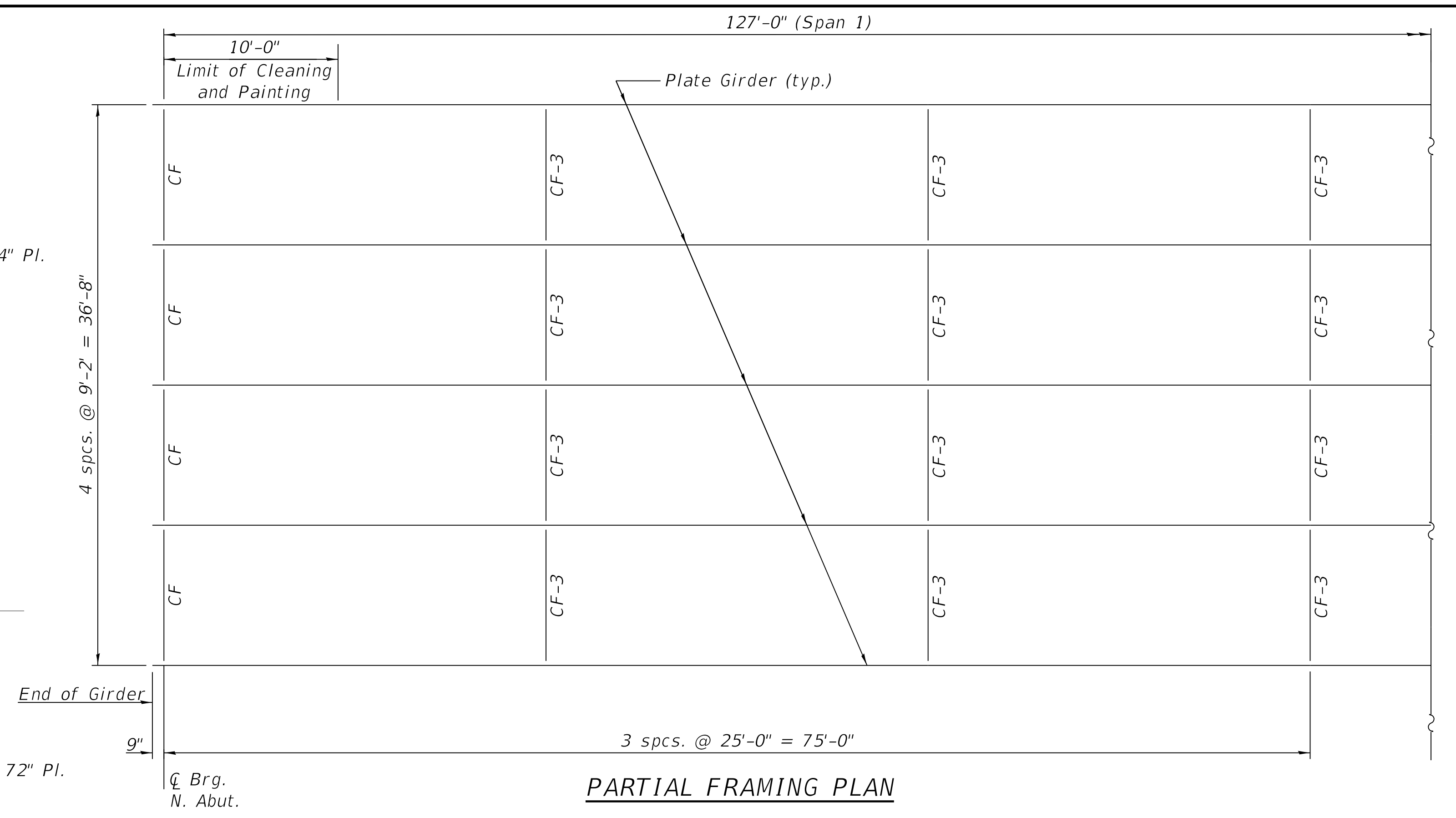
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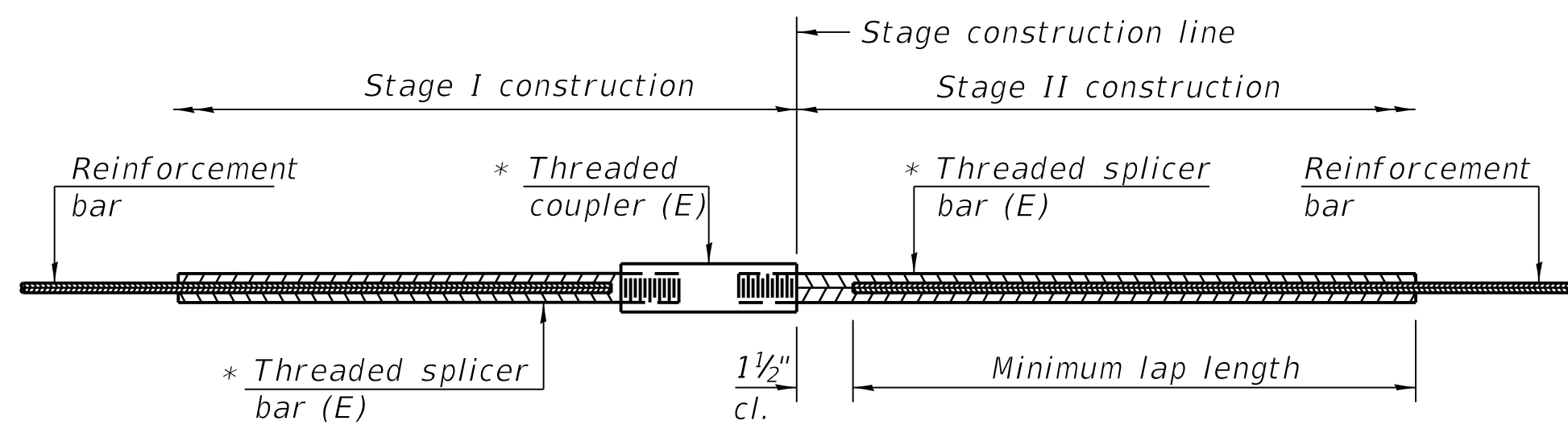


BILL OF MATERIAL

ITEM	UNIT	TOTAL
* Cleaning and Painting Steel Bridge No.1	LSUM	1
Containment and Disposal of Non-Lead Paint Cleaning Residues	LSUM	1

* See General Notes on Sheet 2 of 27.



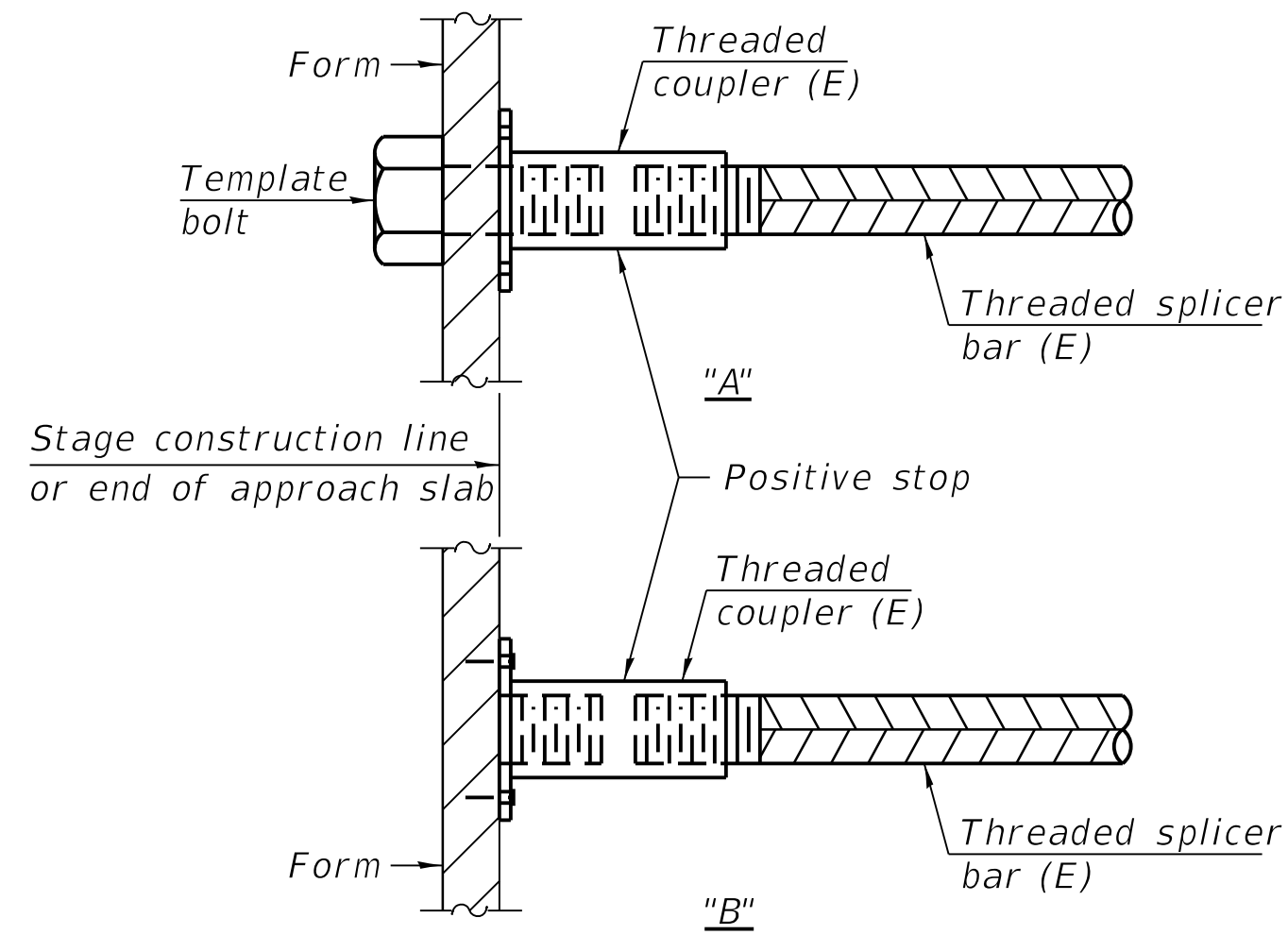


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

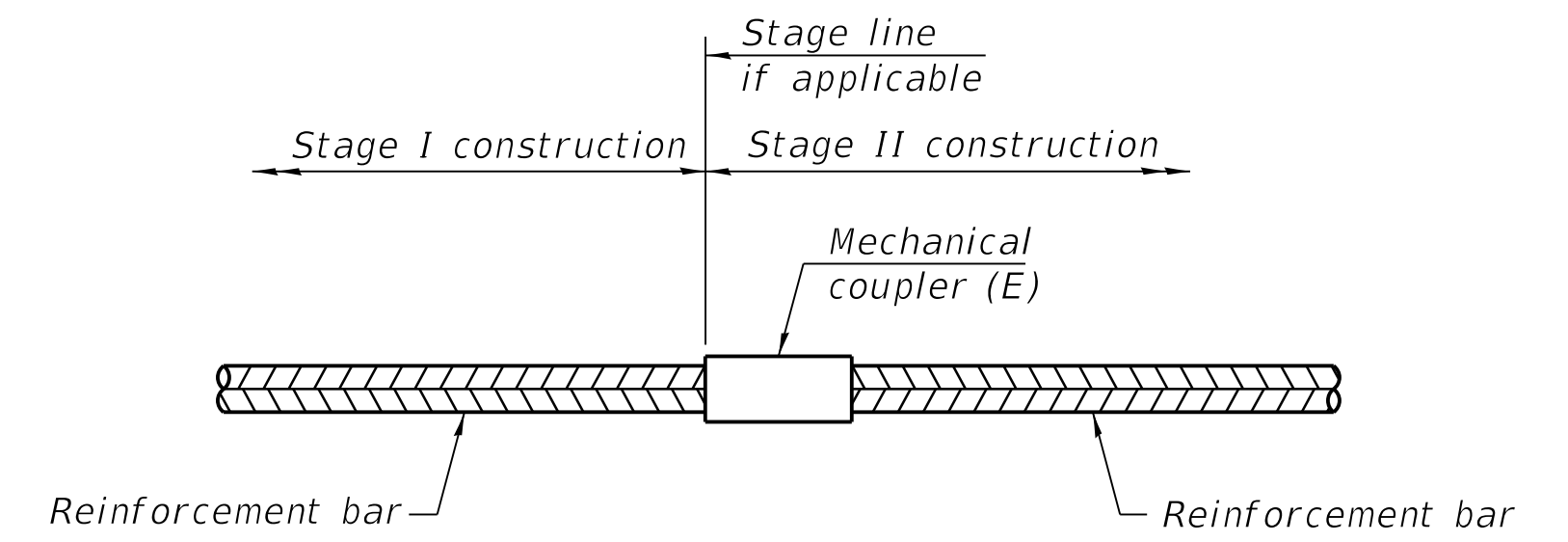
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
N. Joint	#5	10	3'-6"
N. Joint	#6	4	4'-10"
S. Joint	#5	10	4'-10"
S. Joint	#6	4	3'-6"



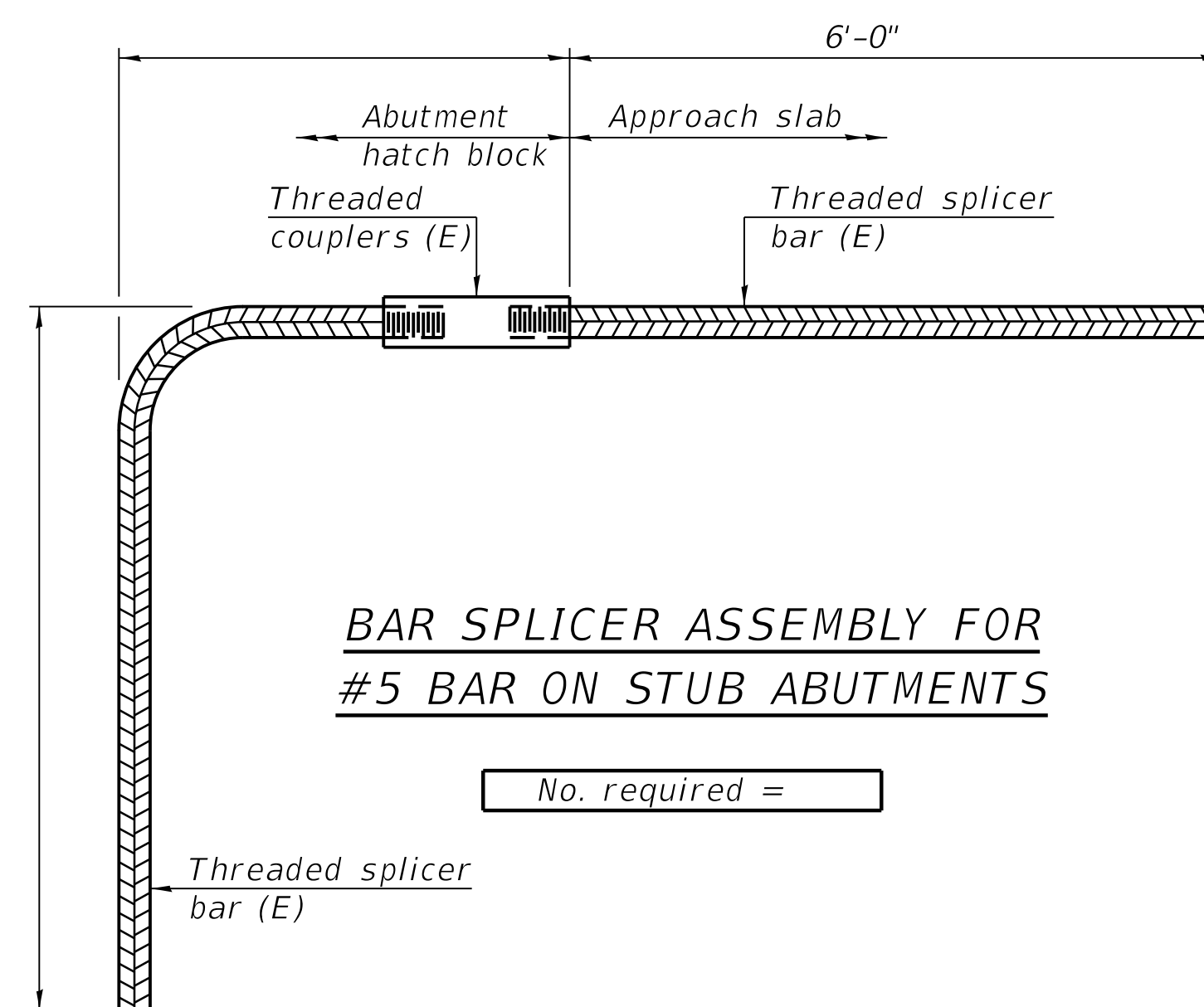
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

FILE NAME = G:\Team_Drives\Projects\2016-0802_02_IDOT\110_Work_Order_11\CADD\SHEET\0264N32-SHT26-SPLICER.dgn

BSD-1 2-17-2017

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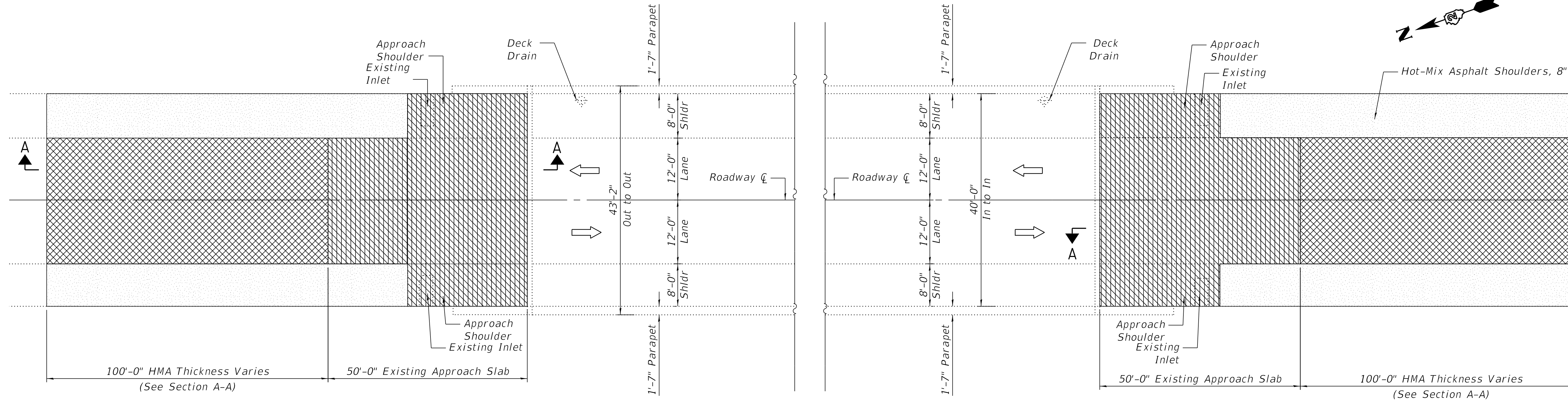
USER NAME = Yun Kim	DESIGNED - SHP	REVISOR
PLOT SCALE =	CHECKED - MJL	REVISIONS
PLOT DATE = 5/23/2019	DRAWN - SHP	
	CHECKED - MJL	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND
 MECHANICAL SPLICER DETAILS**

SHEET NO. 8 OF 9 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
22	(16BR)BDR	WHITESIDE	27	26
CONTRACT NO. 64N32			ILLINOIS FED. AID PROJECT	

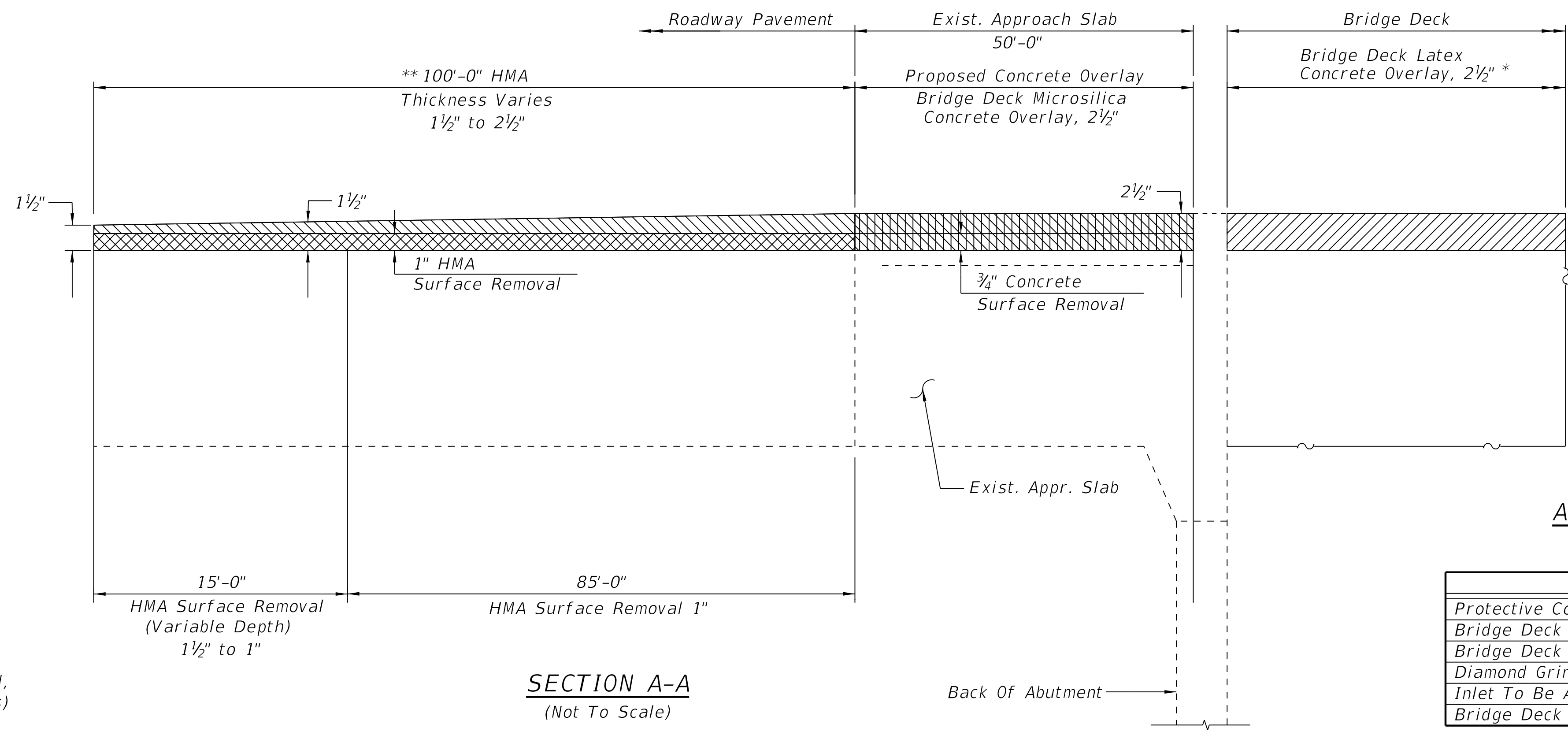


APPROACH PLAN
(Not To Scale)

LEGEND

- Hot-Mix Asphalt Shaders, 8"
- HMA Surface Course, Mix "C", N50
- HMA Surface Removal & HMA Replacement
- PCC Surface Removal & Bridge Deck Microsilica Concrete Overlay
- Bridge Deck Latex Concrete Overlay, 2 1/2" *

* Prior to 1/4" Diamond Grinding (Bridge Section)
 ** HMA Surface Course, Mix "C", N50 1 1/2" and Varies and Leveling Binder (Machine Method), IL-905FG, N50



SECTION A-A
(Not To Scale)

**APPROACH SLAB / BRIDGE DECK
BILL OF MATERIAL**

Item	Unit	Total
Protective Coat	Sq. Yd.	4,574
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	3,590
Bridge Deck Microsilica Concrete Overlay, 2 1/2"	Sq. Yd.	4,040
Diamond Grinding (Bridge Section)	Sq. Yd.	4,040
Inlet To Be Adjusted	Each	4
Bridge Deck Scarification, 3/4"	Sq. Yd.	4,040

- NOTES:**
- Existing Frame and Grates at Inlets to be Removed, Reused and Adjusted to New Elevation (4 Locations)
 - See Sheet 2 of 9 for Drain Details

FILE NAME = G:\Team Drives\Projects\2016-0802 ID2 IDDT1\10 Work Order 11\CADD\SHEETS\0264N32-SH127-APPROACH.dgn

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	CHECKED - MJL	REVISIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**APPROACH DETAILS
SN 098-0100**

SHEET NO. 9 OF 9 SHEETS

F.A. RTE. = 22	SECTION = (16BR)BDR	COUNTY = WHITESIDE	TOTAL SHEETS = 27	SHEET NO. = 27
CONTRACT NO. 64N32			ILLINOIS FED. AID PROJECT	