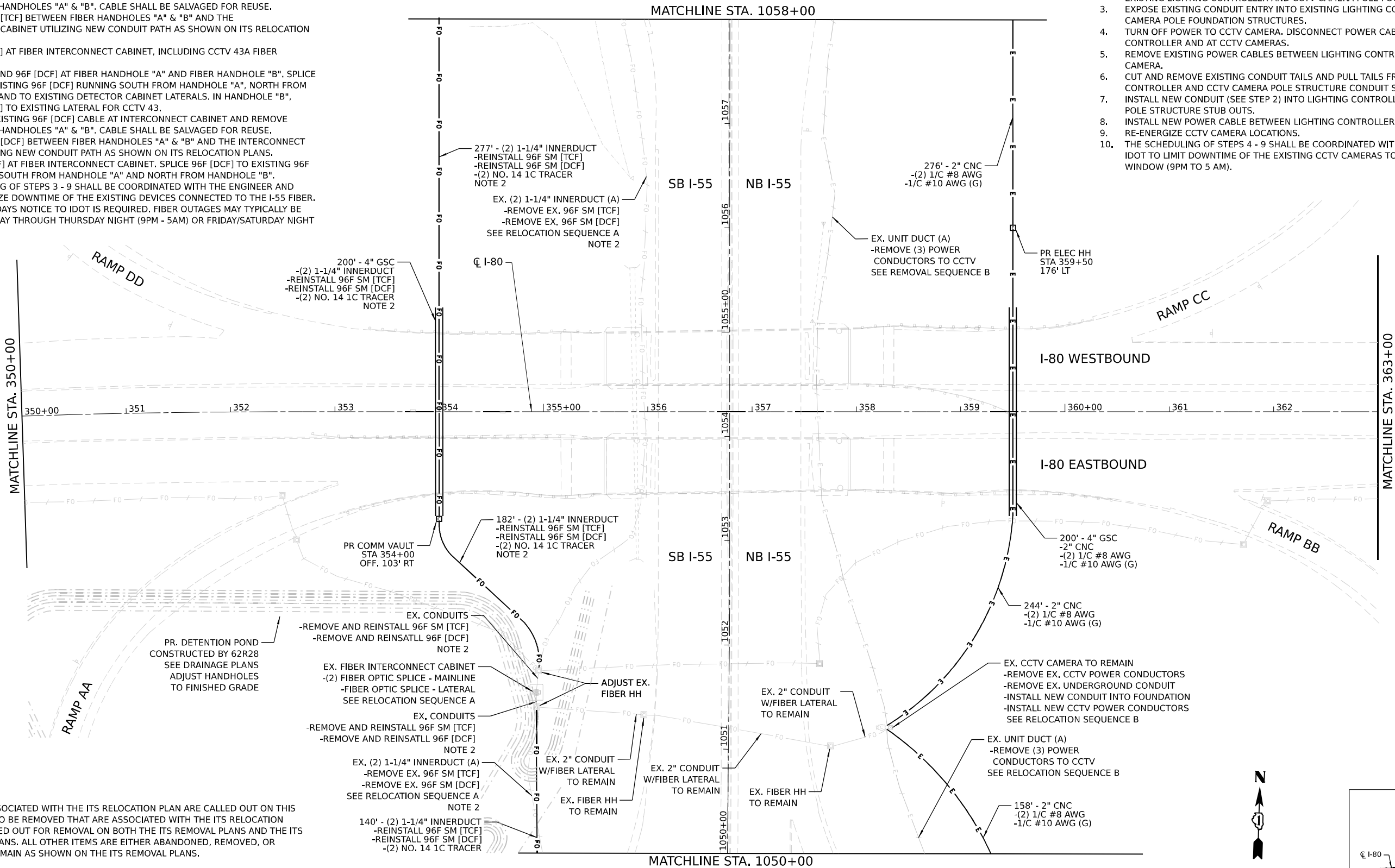


RELOCATION SEQUENCE A (I-55 FIBER)

1. WORK IN THIS SEQUENCE SHALL BE COMPLETED PRIOR TO STAGE 1 TO ENSURE THAT EXISTING FIBER OPTIC CABLE IS NOT IN CONFLICT WITH THE I-80 OVER I-55 BRIDGE REMOVAL AND REPLACEMENT WORK.
2. COMPLETE INSTALLATION OF CONDUIT BETWEEN EXISTING INTERCONNECT CABINET AND FIBER HANDHOLES "A" (I-55 SB, STA 1044+23) AND "B" (I-55 SB, STA 1062+24) AS SHOWN ON ITS RELOCATION PLANS.
3. DISCONNECT EXISTING 96F [TCF] CABLE AT INTERCONNECT CABINET AND REMOVE BACK TO FIBER HANDHOLES "A" & "B". CABLE SHALL BE SALVAGED FOR REUSE.
4. RE-INSTALL 96F [TCF] BETWEEN FIBER HANDHOLES "A" & "B" AND THE INTERCONNECT CABINET UTILIZING NEW CONDUIT PATH AS SHOWN ON ITS RELOCATION PLANS.
5. SPLICE 96F [TCF] AT FIBER INTERCONNECT CABINET, INCLUDING CCTV 43A FIBER LATERAL.
6. CUT 96F [TCF] AND 96F [DCF] AT FIBER HANDHOLE "A" AND FIBER HANDHOLE "B". SPLICE 96F [TCF] TO EXISTING 96F [DCF] RUNNING SOUTH FROM HANDHOLE "A", NORTH FROM HANDHOLE "B" AND TO EXISTING DETECTOR CABINET LATERALS. IN HANDHOLE "B", SPLICE 96F [TCF] TO EXISTING LATERAL FOR CCTV 43.
7. DISCONNECT EXISTING 96F [DCF] CABLE AT INTERCONNECT CABINET AND REMOVE BACK TO FIBER HANDHOLES "A" & "B". CABLE SHALL BE SALVAGED FOR REUSE.
8. RE-INSTALL 96F [DCF] BETWEEN FIBER HANDHOLES "A" & "B" AND THE INTERCONNECT CABINET UTILIZING NEW CONDUIT PATH AS SHOWN ON ITS RELOCATION PLANS.
9. SPLICE 96F [DCF] AT FIBER INTERCONNECT CABINET. SPLICE 96F [DCF] TO EXISTING 96F [TCF] RUNNING SOUTH FROM HANDHOLE "A" AND NORTH FROM HANDHOLE "B".
10. THE SCHEDULING OF STEPS 3 - 9 SHALL BE COORDINATED WITH THE ENGINEER AND IDOT TO MINIMIZE DOWNTIME OF THE EXISTING DEVICES CONNECTED TO THE I-55 FIBER. A MINIMUM 14 DAYS NOTICE TO IDOT IS REQUIRED. FIBER OUTAGES MAY TYPICALLY BE ALLOWED SUNDAY THROUGH THURSDAY NIGHT (9PM - 5AM) OR FRIDAY/SATURDAY NIGHT (9PM - 9AM).

RELOCATION SEQUENCE B (CCTV POWER CABLE)

1. WORK IN THIS SEQUENCE SHALL BE COMPLETED PRIOR TO STAGE 1 TO ENSURE THAT EXISTING POWER CABLE IS NOT IN CONFLICT WITH THE I-80 OVER I-55 BRIDGE REMOVAL AND REPLACEMENT WORK.
2. COMPLETE INSTALLATION OF CONDUIT FOR POWER CABLE AS SHOWN ON ITS RELOCATION PLANS. ENSURE CONDUIT TAILS AT CCTV CAMERA LOCATIONS AND LIGHTING CONTROLLER ARE OF SUFFICIENT LENGTH TO COMPLETE INSTALLATION INTO EXISTING LIGHTING CONTROLLER AND CCTV CAMERA POLE FOUNDATION STRUCTURES.
3. EXPOSE EXISTING CONDUIT ENTRY INTO EXISTING LIGHTING CONTROLLER AND CCTV CAMERA POLE FOUNDATION STRUCTURES.
4. TURN OFF POWER TO CCTV CAMERA. DISCONNECT POWER CABLES AT LIGHTING CONTROLLER AND AT CCTV CAMERAS.
5. REMOVE EXISTING POWER CABLES BETWEEN LIGHTING CONTROLLER AND CCTV CAMERA.
6. CUT AND REMOVE EXISTING CONDUIT TAILS AND PULL TAILS FROM LIGHTING CONTROLLER AND CCTV CAMERA POLE STRUCTURE CONDUIT STUB OUTS.
7. INSTALL NEW CONDUIT (SEE STEP 2) INTO LIGHTING CONTROLLER AND CCTV CAMERA POLE STRUCTURE STUB OUTS.
8. INSTALL NEW POWER CABLE BETWEEN LIGHTING CONTROLLER AND CCTV CAMERAS.
9. RE-ENERGIZE CCTV CAMERA LOCATIONS.
10. THE SCHEDULING OF STEPS 4 - 9 SHALL BE COORDINATED WITH THE ENGINEER AND IDOT TO LIMIT DOWNTIME OF THE EXISTING CCTV CAMERAS TO AN 8 HOUR OVERNIGHT WINDOW (9PM TO 5 AM).



NOTES

1. ONLY ITEMS ASSOCIATED WITH THE ITS RELOCATION PLAN ARE CALLED OUT ON THIS SHEET; ITEMS TO BE REMOVED THAT ARE ASSOCIATED WITH THE ITS RELOCATION PLAN ARE CALLED OUT FOR REMOVAL ON BOTH THE ITS REMOVAL PLANS AND THE ITS RELOCATION PLANS. ALL OTHER ITEMS ARE EITHER ABANDONED, REMOVED, OR EXISTING TO REMAIN AS SHOWN ON THE ITS REMOVAL PLANS.
2. REMOVAL AND REINSTALLATION OF FIBER PAID FOR AS REMOVE AND REINSTALL FIBER OPTIC CABLE IN CONDUIT.

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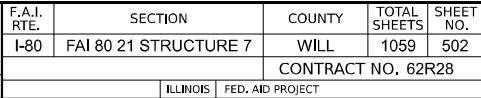
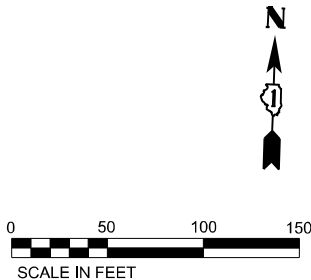
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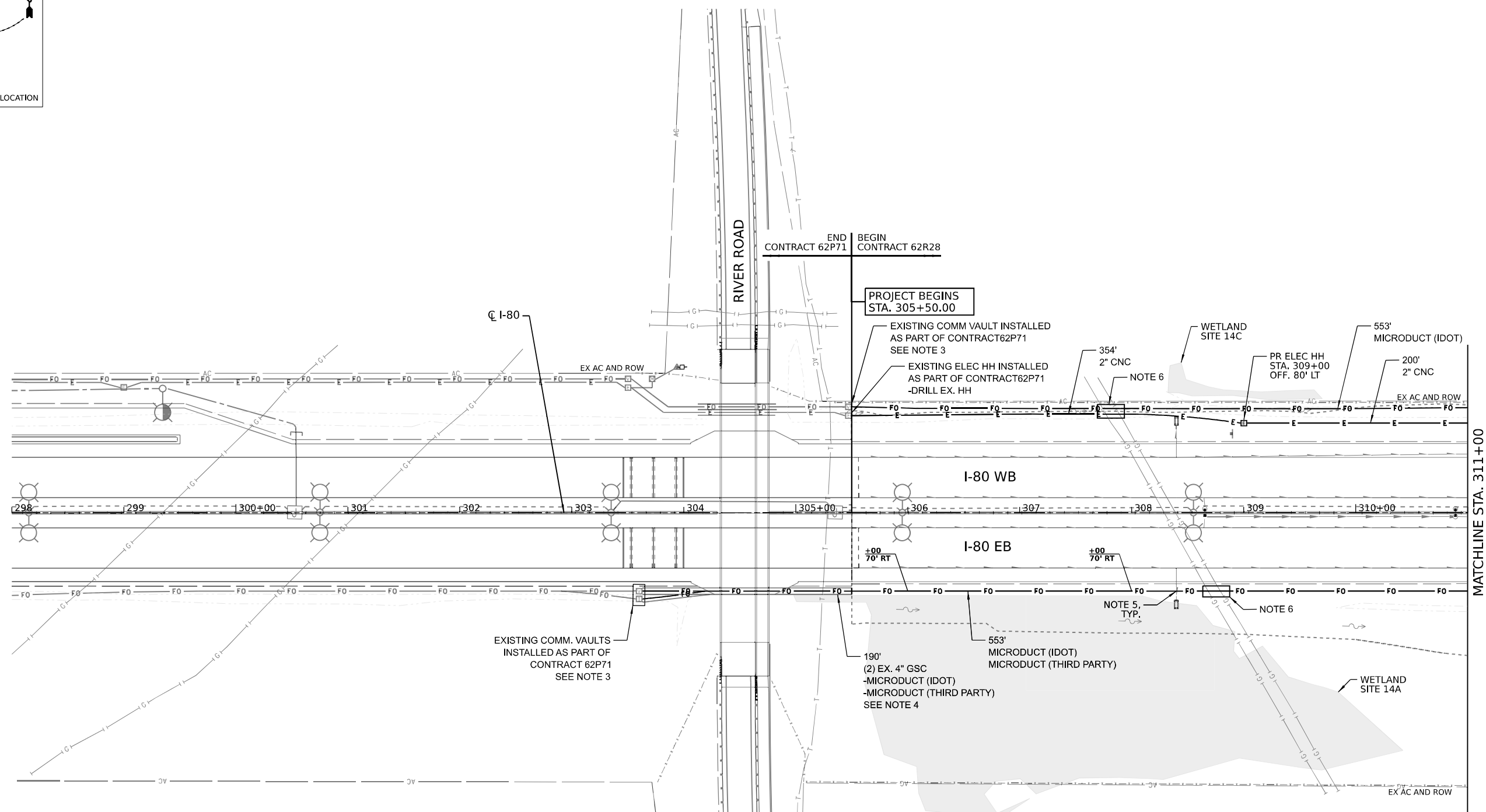
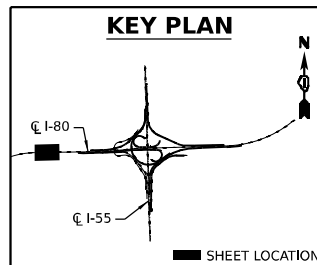
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS RELOCATION PLANS

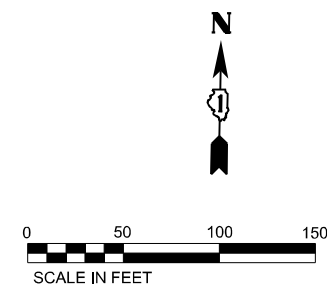
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	501
CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				





NOTES:



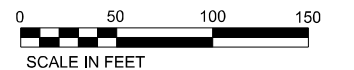
KEY PLAN

€ I-80

€ I-55

■ SHEET LOCATION

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATIONS VAULTS.
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATIONS VAULTS.
3. 2" CNC CONDUIT SHALL BE COUPLED TO 2" CONCRETE FOUNDATION STUB OUT.
1-1/4" INNERDUCT SHALL BE INSTALLED IN THE OTHER 2" CONCRETE FOUNDATION
STUB OUT UP THROUGH THE TOP OF THE FOUNDATION.
4. EXISTING UTILITY POLE MAY BE RELOCATED DUE TO CONSTRUCTION OF NOISE WALL ALONG
THE ROW. COORDINATE ELECTRIC SERVICE INSTALLATION WITH UTILITY AND THE ENGINEER.
5. COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE
BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.
6. COORDINATE INSTALLATION WITH GUARDRAIL. CENTER THE WIDTH OF THE PVC CONDUIT
ENCASED IN CONCRETE BETWEEN GUARDRAIL POSTS AND LENGTHWISE ON THE GUARDRAIL.



USER NAME ■ dmeiler	DESIGNED ■ M	REVISED -
	DRAWN ■ JM	REVISED -
PLOT SCALE ■ 100,000' / in.	CHECKED ■ RL	REVISED -
PLOT DATE ■ 8/9/2023	DATE 08/11/2023	REVISED -

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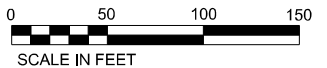
ITS INFRASTRUCTURE PLANS

SCALE: 1"=50'	SHEET 4 OF 9 SHEETS	STA. 337+00 TO STA. 350+00
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	506
		CONTRACT NO. 62R28		
		ILLINOIS FED. AID PROJECT		

Location map showing the intersection of I-80 and I-55. A shaded area indicates the sheet location. A north arrow is present in the top right corner.

1. IDOT MICRODUCT SHALL ONLY ENTER IDOT COMMUNICATIONS VAULTS.
2. THIRD PARTY MICRODUCT SHALL ONLY ENTER THIRD PARTY COMMUNICATIONS VAULTS.
3. 2" CNC CONDUIT SHALL BE COUPLED TO 2" CONCRETE FOUNDATION STUB OUT. 1-1/4" INNERDUCT SHALL BE INSTALLED IN THE OTHER 2" CONCRETE FOUNDATION STUB OUT UP THROUGH THE TOP OF THE FOUNDATION.
4. THE 2" CNC CONDUITS SHALL BE COUPLED TO 2" CONCRETE FOUNDATION STUB OUTS.
5. COORDINATE WORK AT RAMP B AND FRONTAGE ROAD WITH CONTRACT 62R26.
6. COORDINATE INSTALLATION WITH DRAINAGE. MAINTAIN MINIMUM 18" CLEARANCE BETWEEN ITS MICRODUCT/CONDUIT AND DRAINAGE PIPES/STRUCTURES/UNDERDRAIN, TYP.



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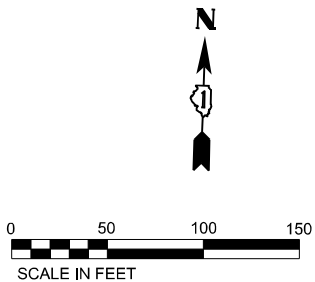
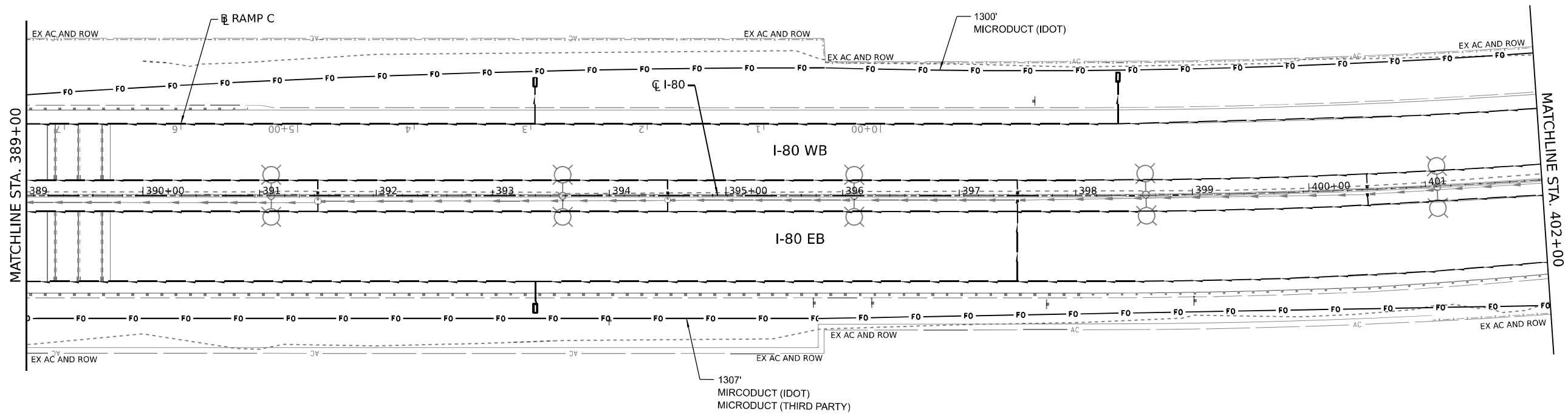
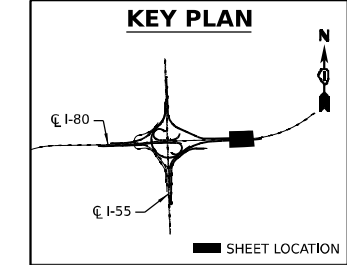
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PLOT DATE ■ 8/9/2023	DATE ■ 08/11/2023	REVISED ■

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ITS INFRASTRUCTURE PLANS

SCALE: 1"=50'	SHEET 6	OF 9	SHEETS	STA. 363+00	TO STA. 376+00
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	508
		CONTRACT NO. 62R28		
		ILLINOIS	FED. AID PROJECT	



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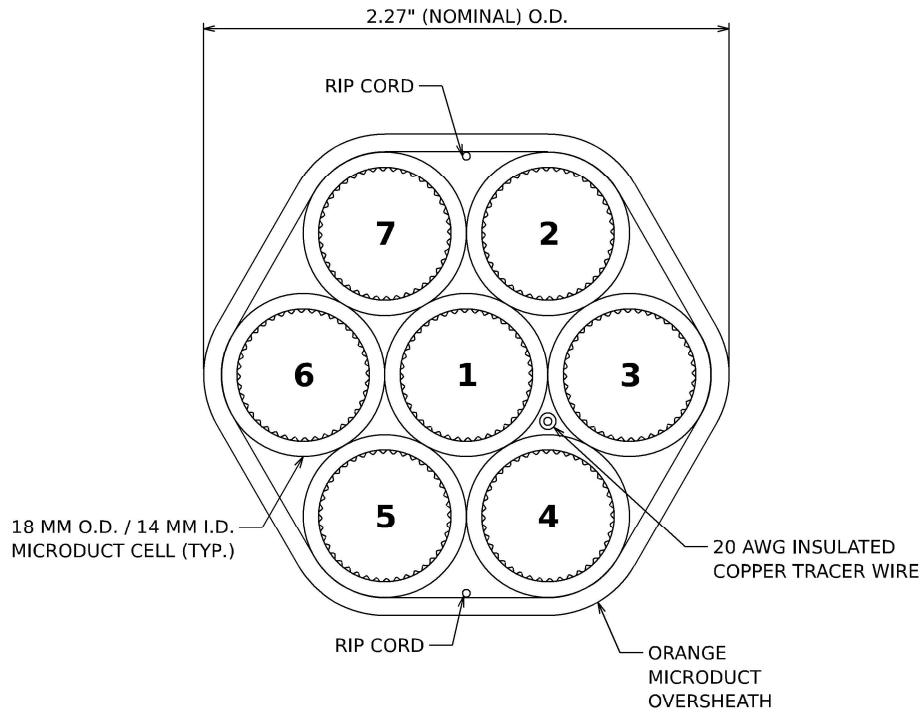
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE PLANS

SCALE: 1"=50' SHEET 8 OF 9 SHEETS STA. 389+00 TO STA. 402+00

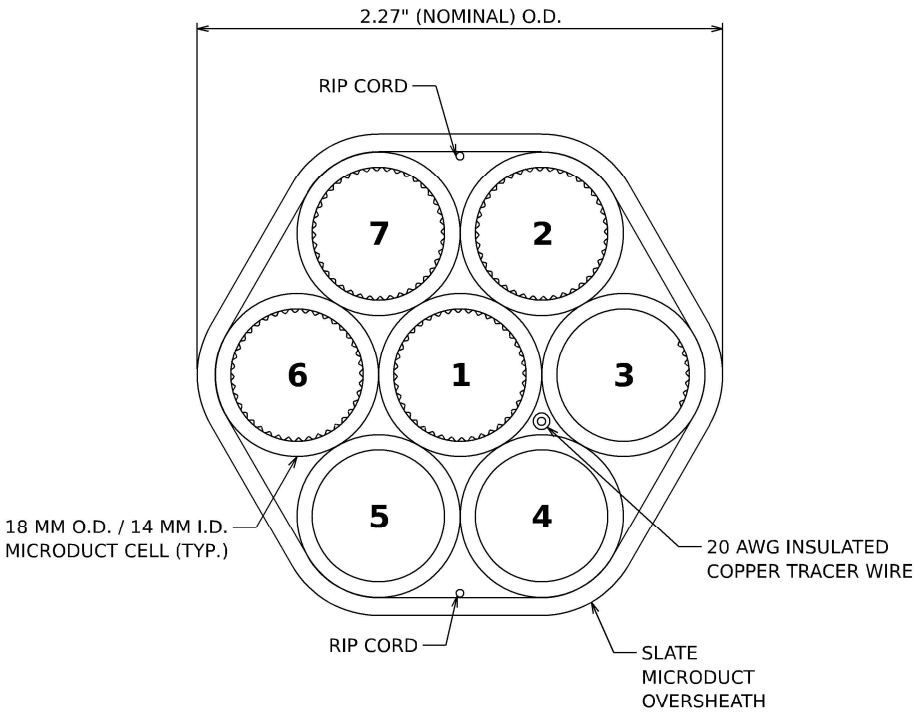
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I-80	FAI 80 21 STRUCTURE 7	WILL	1059	510
CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				



IDOT MICRODUCT DETAIL

CELL NO.	CELL COLOR	CELL ALLOCATION
1	BLUE	FUTURE 144 IDOT (TCF)
2	ORANGE	FUTURE 144 IDOT (DCF)
3	GREEN	SPARE
4	BROWN	SPARE
5	GREY	SPARE
6	WHITE	SPARE
7	RED	SPARE

IDOT MICRODUCT CELL INFORMATION

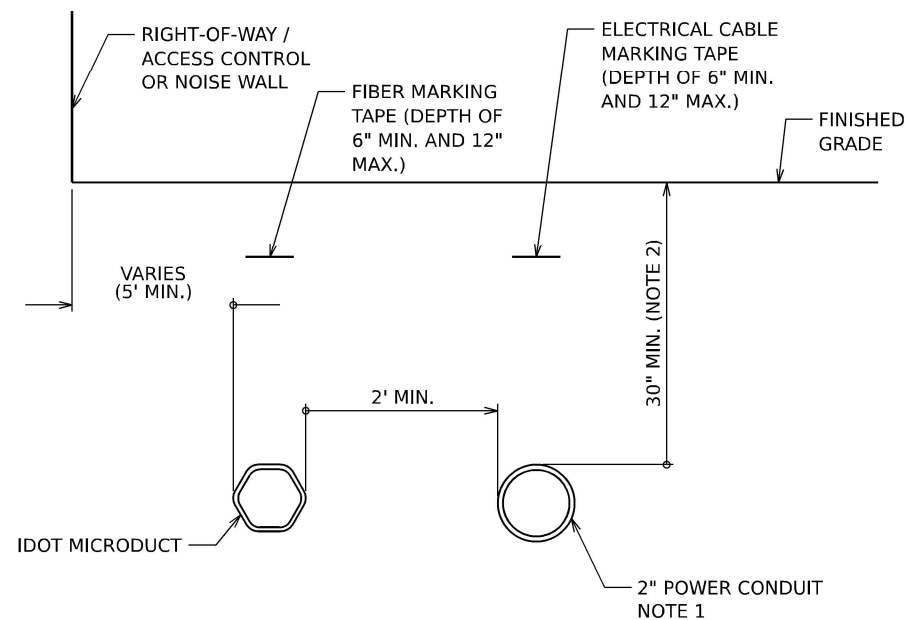


THIRD PARTY MICRODUCT DETAIL

CELL NO.	CELL COLOR	CELL ALLOCATION
1	BLUE	FUTURE 144 THIRD PARTY
2	ORANGE	SPARE
3	GREEN	SPARE
4	BROWN	SPARE
5	GREY	SPARE
6	WHITE	SPARE
7	RED	SPARE

THIRD PARTY MICRODUCT CELL INFORMATION

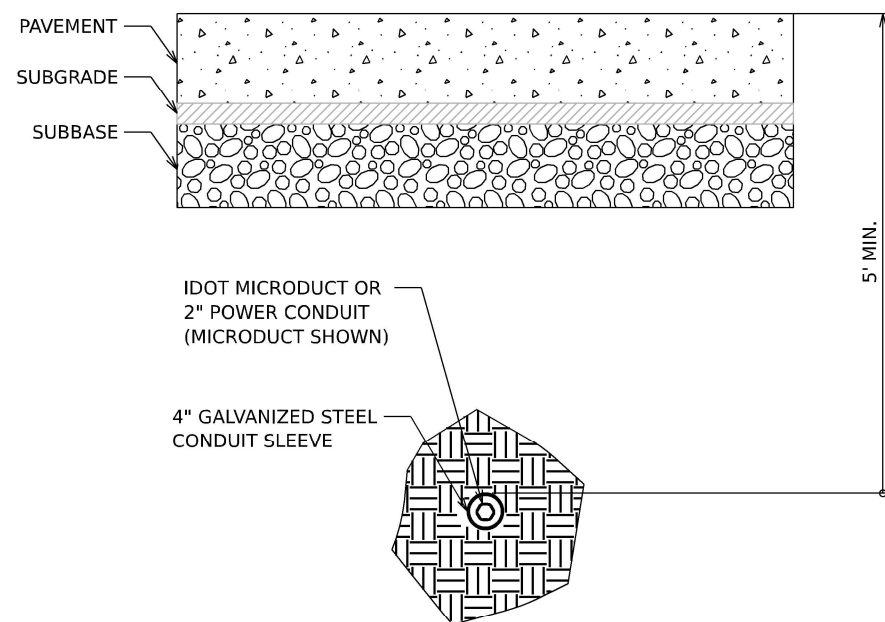
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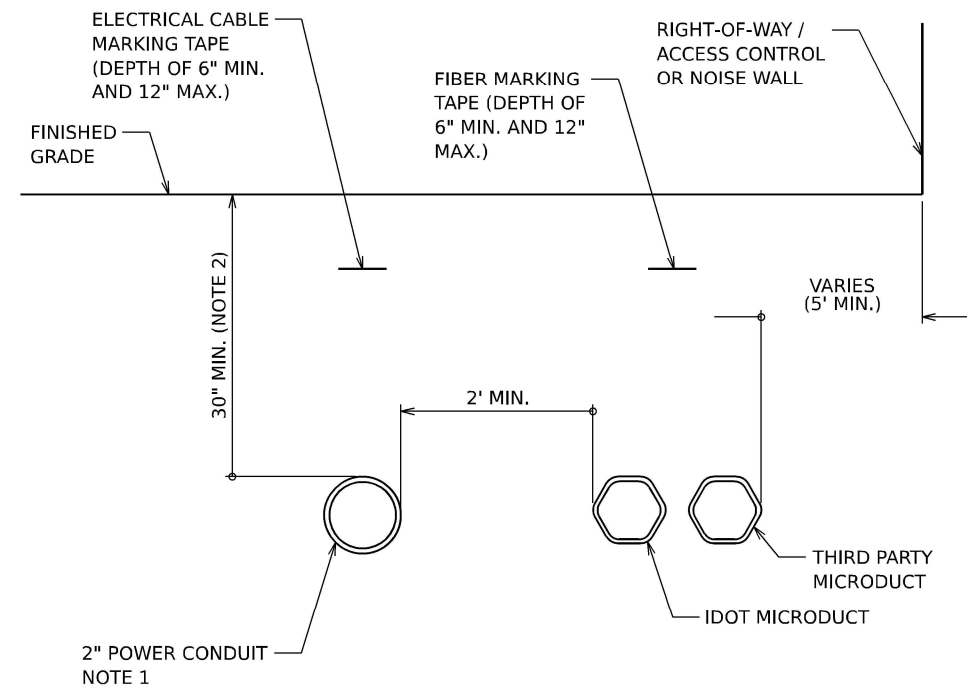
**I-80 WESTBOUND
TYPICAL CONDUIT SECTION**

NOTES

1. INSTALLATION CONFIGURATION/QUANTITY OF POWER CONDUITS VARIES BY LOCATION.
2. GREATER DEPTH MAY BE REQUIRED IN CERTAIN SITUATIONS, INCLUDING, BUT NOT LIMITED TO:
ENTERING HANDHOLES/VAULTS, UTILITY AVOIDANCE, CROSSING BENEATH BOX CULVERTS.



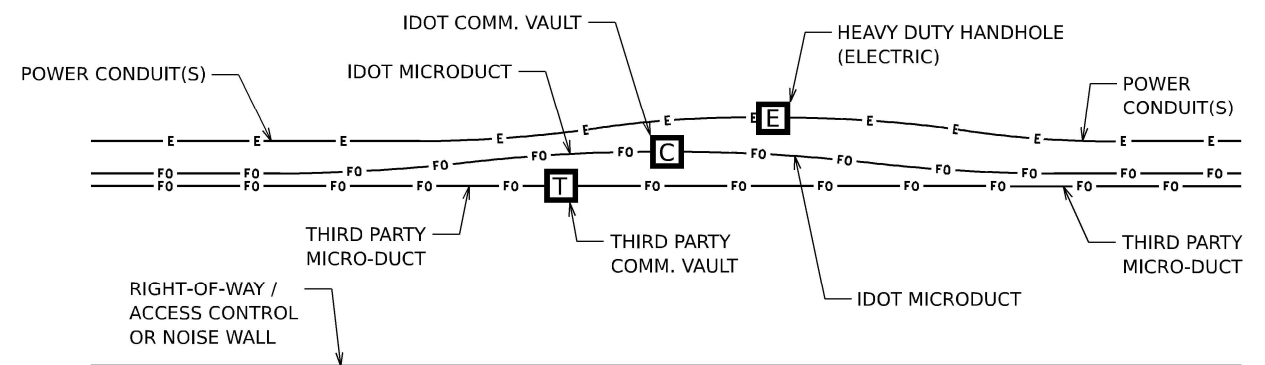
BORED CONDUIT UNDER ROADWAY



**I-80 EASTBOUND
TYPICAL CONDUIT SECTION**

NOTES

1. INSTALLATION CONFIGURATION/QUANTITY OF POWER CONDUITS VARIES BY LOCATION.
2. GREATER DEPTH MAY BE REQUIRED IN CERTAIN SITUATIONS, INCLUDING, BUT NOT LIMITED TO:
ENTERING HANDHOLES/VAULTS, UTILITY AVOIDANCE, CROSSING BENEATH BOX CULVERTS.



TYPICAL CONDUIT ROUTING AT HANDHOLES

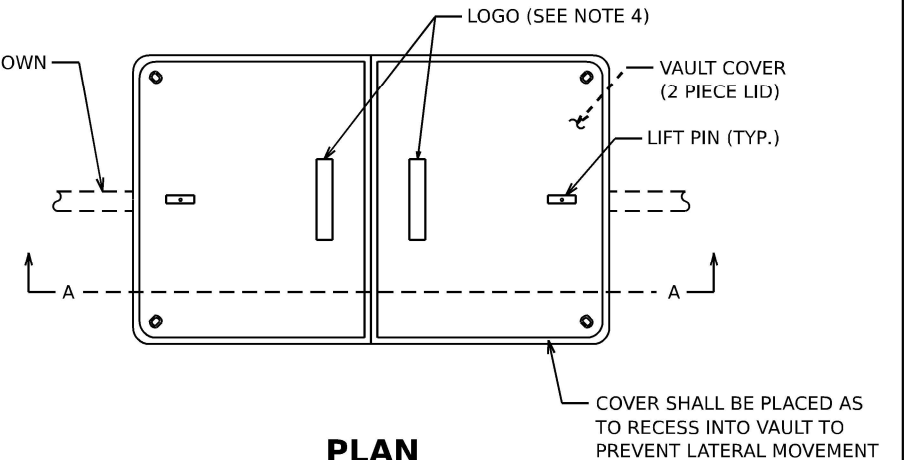
NOTES

1. INSTALLATION CONFIGURATION/QUANTITY OF POWER CONDUITS VARIES BY LOCATION AND ROADWAY DIRECTION.
EASTBOUND DIRECTION SHOWN ABOVE WITH POWER CONDUIT, IDOT MICRODUCT, AND THIRD PARTY MICRODUCT.
2. IDOT MICRODUCT SHALL ENTER IDOT COMMUNICATIONS VAULTS ONLY.
3. THIRD PARTY MICRODUCT SHALL ENTER THIRD PARTY COMMUNICATIONS VAULTS ONLY.

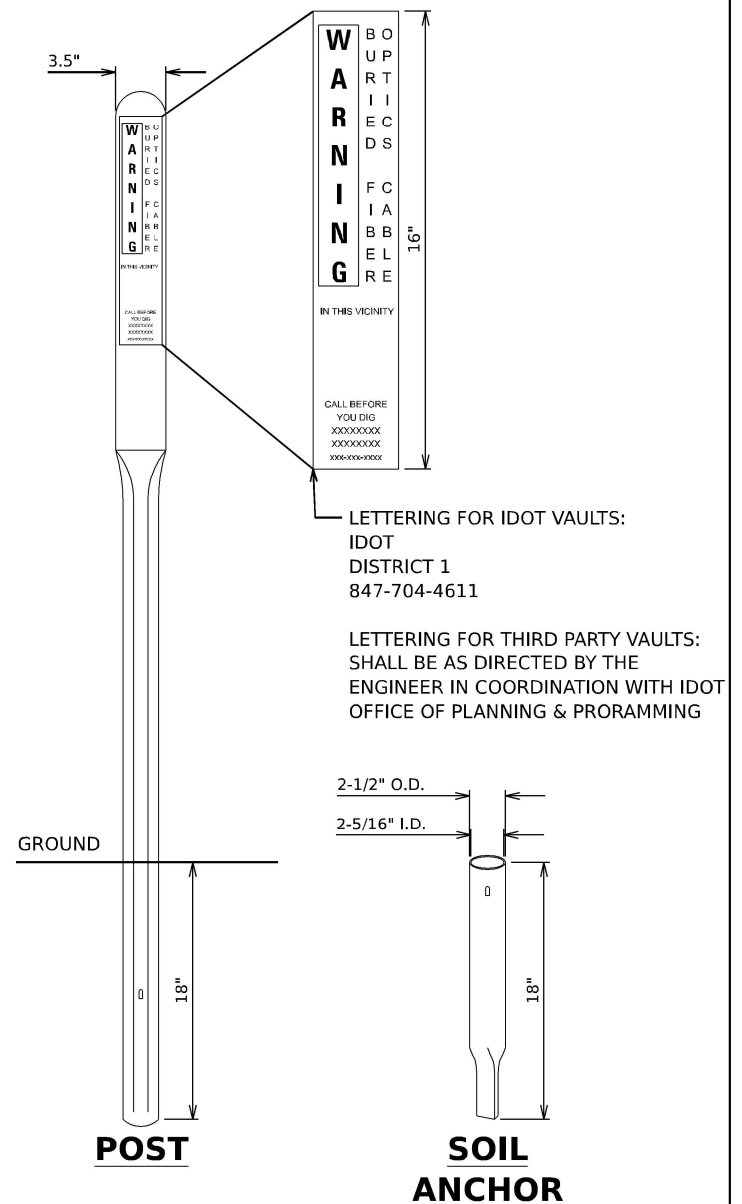
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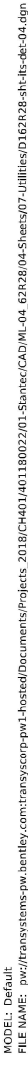
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	513
CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				



1. GROUND ROD, 1-1/2" CONDUIT, #6 AWG GROUND WIRE, LOCATE POST AND ASSOCIATED WORK ARE INCLUDED AS PART OF COMMUNICATIONS VAULT AND WILL NOT BE PAID FOR SEPARATELY. ALL MATERIALS FOR MECHANICAL CONNECTION SHALL BE UL LISTED AND INSTALLED PER NEC ARTICLE 250.
2. #20 AWG TRACER CABLE SHALL BE SPICED TO THE #20 AWG TRACER CABLE IN THE MICRODUCT USING A WATERPROOF SPlice KIT AS RECOMENDED BY THE MICRODUCT MANUFACTURER. THE #20 AWG WIRE, SPlice KIT AND ASSOCIATED WORK ARE INCLUDED AS PART OF COMMUNICATIONS VAULT AND WILL NOT BE PAID FOR SEPARATELY.
3. A WATERPROOF MICRODUCT PLUG(S) OR INNERDUCT PLUG SHALL BE INSTALLED AROUND EACH MICRODUCT OR INNERDUCT TO SEAL AROUND THE DUCT FOR ALL MICRODUCTS OR INNERDUCTS COMING INTO THE VAULT. THE PLUGS SHALL BE APPROPRIATELY SIZED AND INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND IS INCLUDED AS PART OF THE MICRODUCT OR INNERDUCT PAY ITEM AND WILL NOT BE PAID SEPARATELY.
4. IDOT COMMUNICATIONS VAULTS SHALL HAVE A PERMANENTLY RECESSED LOGO THAT READS "IDOT" AND THIRD PARTY COMMUNICATIONS VAULTS SHALL HAVE A PERMANENTLY RECESSED LOGO THAT READS "IDOT - BB".
5. COMMUNICATIONS VAULT SHALL HAVE AN OPEN BASE. ALL CONDUITS AS SHOWN ON THE PLANS SHALL ENTER THE VAULT VIA THE OPEN BASE.
6. ALL DIMENSIONS ARE MINIMUM AND A LARGER SIZE VAULT MAY BE USED, WITH THE APPROVAL OF THE ENGINEER, TO FACILITATE USING A MANUFACTURER'S STANDARD PRODUCT.

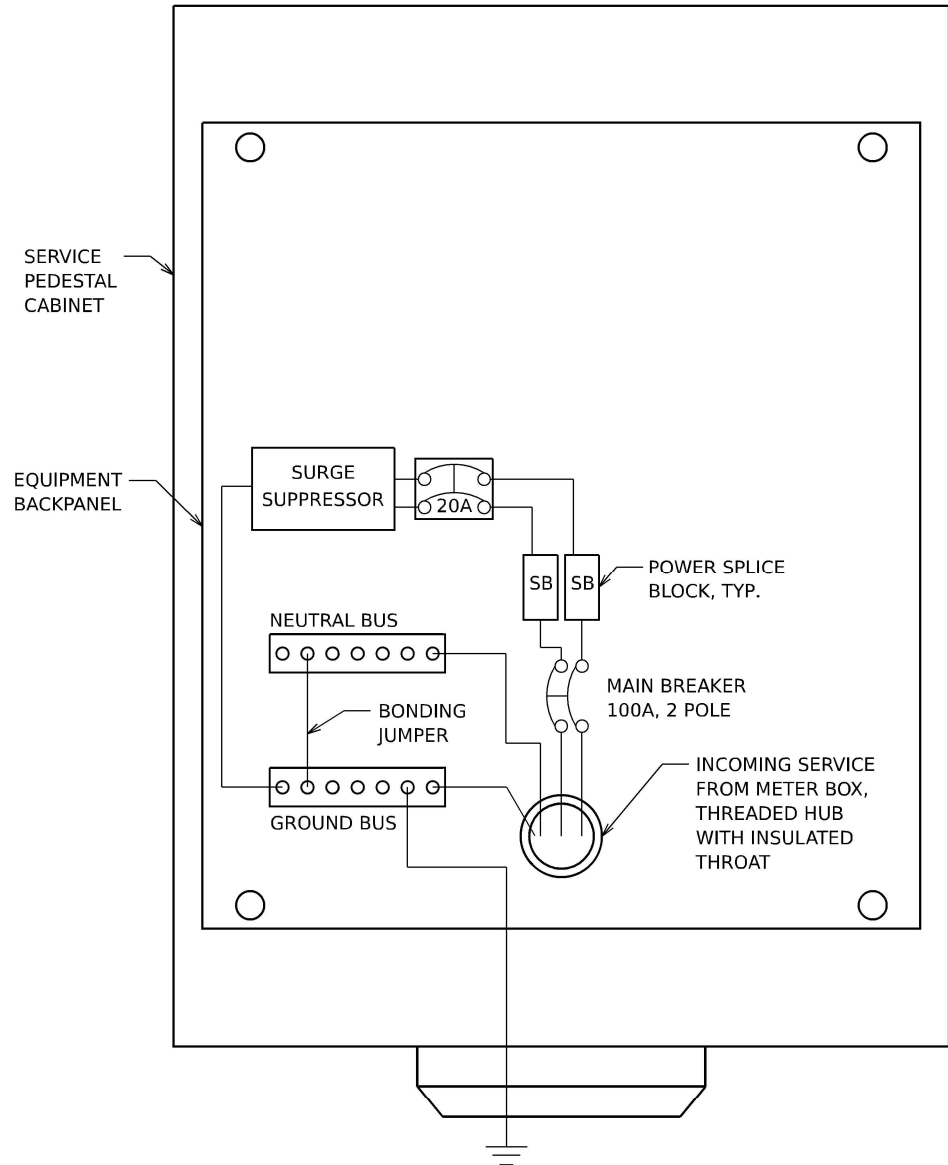




SERVICE PEDESTAL WITH METER

NOTES

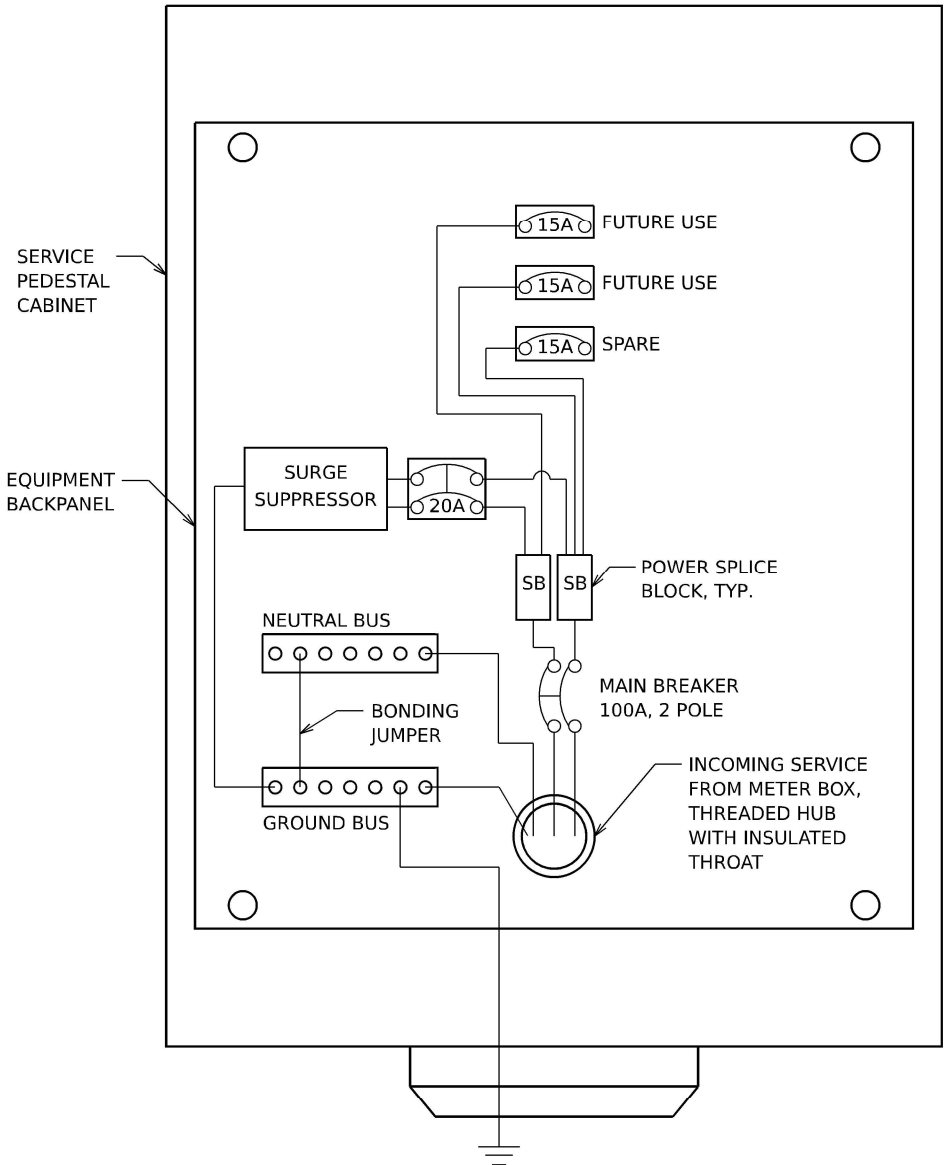
1. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
2. UNLESS OTHERWISE INDICATED, ALL ITEMS AND WORK SHOWN SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
3. THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY/CONDUCTORS AND NON-METALLIC CONDUITS TO POWER HANDHOLE SHALL BE MEASURED SEPARATELY FOR PAYMENT.
4. CABINETS, CABINET POSTS AND CABINET PEDESTALS SHALL BE PRIMED AND PAINTED. THE EXTERIOR SHALL HAVE TWO EPOXY FINISH COATS OF ANSI-61 GRAY. THE INTERIOR SHALL BE PAINTED WHITE.
5. METER HOUSING SHALL BE MOUNTED TO BACK WALL OF CABINET. PROVIDE A GATE IN ROW FENCE TO ALLOW UTILITY ACCESS TO READ THE METER.
6. CABLES FROM METER HOUSING SHALL PASS THROUGH BACK WALL OF CABINET.
7. METER HOUSING SHALL BE AS REQUIRED BY THE UTILITY.
8. THE CABINET SHALL BE 36"H X 20"W X 15"D, FABRICATED FROM ALUMINUM WITH A MINIMUM THICKNESS OF .125", RATED NEMA TYPE 3R AND HAVE A MOUNTING BACK PLATE.
9. THE CABINET DOOR SHALL HAVE A CONTINUOUS HINGE THAT IS BOLTED TO THE CABINET AND DOOR WITH 1/4-20 STAINLESS STEEL CARRIAGE BOLTS AND NY-LOCK NUTS. THE HINGE SHALL BE INSTALLED ON THE RIGHT SIDE WHEN FACING THE CABINET AND BE MADE OF STAINLESS STEEL WITH A 0.25 INCH DIAMETER STAINLESS STEEL HINGE PIN. THE HINGE PIN SHALL BE CAPPED TOP AND BOTTOM BY WELD TO RENDER IT TAMPER-PROOF. THE CABINET SHALL HAVE A GASKET THAT FORMS A WEATHER-TIGHT SEAL BETWEEN THE CABINET AND DOOR. THE DOOR LATCHING MECHANISM SHALL BE THE 3-POINT DRAW ROLLER TYPE. WHEN THE DOOR IS CLOSED AND LATCHED, IT WILL BE LOCKED. THE LATCHING HANDLE SHALL BE FABRICATED FROM A 0.75" STAINLESS STEEL ROUND BAR AND SHALL HAVE A PROVISION FOR PADLOCKING IN THE CLOSED POSITION.
10. THE ENCLOSURE SHALL BE EQUIPPED WITH TWO ADJUSTABLE "C" MOUNTING CHANNELS WELDED ON BOTH SIDE WALLS AND BACK WALL OF THE ENCLOSURE, ALLOWING VERSATILE POSITIONING OF SHELVES OR PANELS. MOUNTING CHANNELS SHALL BE FACTORY PAINTED SAME COLOR AS INTERIOR OF CABINET.
11. CABINET DOOR SHALL NOT HAVE COMPARTMENT DOORS OR LOUVERS. INTERIOR OF CABINET DOOR SHALL HAVE A PLASTIC POCKET FOR WIRING SCHEMATIC.
12. CONTRACTOR MUST COORDINATE WITH PEDESTAL BASE SUPPLIER AND FURNISH THE NECESSARY ANCHOR RODS.
13. THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE ASSEMBLED BY A UL 508A INDUSTRIAL CONTROL PANEL FABRICATOR. THE PANEL ASSEMBLY SHALL BE UL LABELED AND SUITABLE FOR USE AS SERVICE EQUIPMENT.
14. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
15. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY. FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



**SERVICE PEDESTAL CABINET WIRING
AND EQUIPMENT LAYOUT
FRONTAGE ROAD - STA 47+82, 53' RT**

NOTES

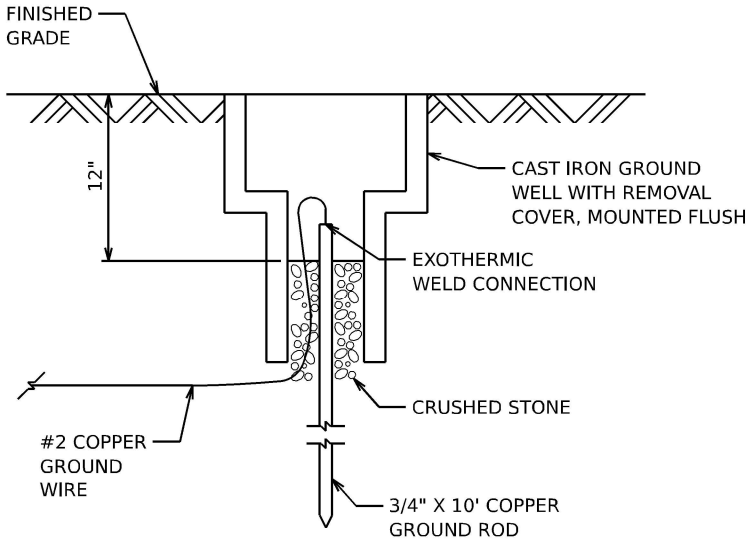
1. THE ELECTRIC SERVICE EQUIPMENT ASSEMBLY SHALL BE UL LABELED, SUITABLE FOR USE AS SERVICE EQUIPMENT.
2. CIRCUIT BREAKERS SHALL BE THERMAL MAGNETIC BOLT-ON TYPE WITH A MINIMUM INTERRUPTING CAPACITY OF 65,000 SYMETRICAL AMPERES AT 240V LINE TO LINE SERVICE OR 14,000 AT 480V RATED LINE TO LINE SERVICE. THEY SHALL BE LOCKABLE IN THE "OFF" POSITION FOR COMPLIANCE WITH OSHA LOCK-OUT/TAG-OUT REQUIREMENTS. HANDLES SHALL BE TRIP FREE.
3. THE SURGE PROTECTOR SHALL BE SUITABLE FOR THE INCOMING SINGLE PHASE 60HZ AC ELECTRICAL SERVICE, WITH A SURGE CURRENT RATING OF 50,000 AMPS OR BETTER, RATED -40 TO 65 DEGREES C., WITH LED OPERATING IDICATORS, AND SHALL BE UL LISTED PER UL 1449. SURGE PROTECTOR SHALL BE WIRED FOR THE INCOMING SERVICE VOLTAGE. FOLLOW MANUFACTURER RECOMMENDED WIRING SPECIFICATIONS.



**SERVICE PEDESTAL CABINET WIRING
AND EQUIPMENT LAYOUT
FRONTAGE ROAD - STA 34+60, 40' RT**

4. BUS BARS, CONNECTORS AND LUGS SHALL BE COPPER, INSULATED AND ISOLATED AND CONFIGURED TO PREVENT SHORTED CONDITIONS FROM TIGHTENING TERMINATIONS, ETC. THE OVERALL BUS SECTION SHALL BE CONFIGURED BEHIND AN INSULATING BARRIER SHIELD WHICH IS REMOVABLE FOR ACCESS TO CONNECTIONS.
5. THE COMBINATION GROUND AND NEUTRAL BAR SHALL BE CONFIGURED WITH SEPARATE GROUND AND NEUTRAL SECTIONS AND SPARE TERMINALS AS INDICATED. THE HEADS OF GROUND SCREWS SHALL BE PAINTED GREEN. THE HEADS OF NEUTRAL SCREWS SHALL BE PAINTED WHITE.
6. A PLASTIC LAMINATED CABINET LAYOUT DIAGRAM, CIRCUIT SCHEMATIC, AND BILL OF MATERIALS WITH CATALOG NUMBERS USED SHALL BE AFFIXED TO THE INTERIOR SIDE OF THE ENCLOSURE DOOR.
7. EQUIPMENT IN DIAGRAM ABOVE IS NOT TO SCALE AND WIRING SCHEMATIC IS DIAGRAMMATIC. CONTRACTOR TO SUBMIT WIRING DIAGRAM AND EQUIPMENT LAYOUT FOR APPROVAL BY THE ENGINEER.

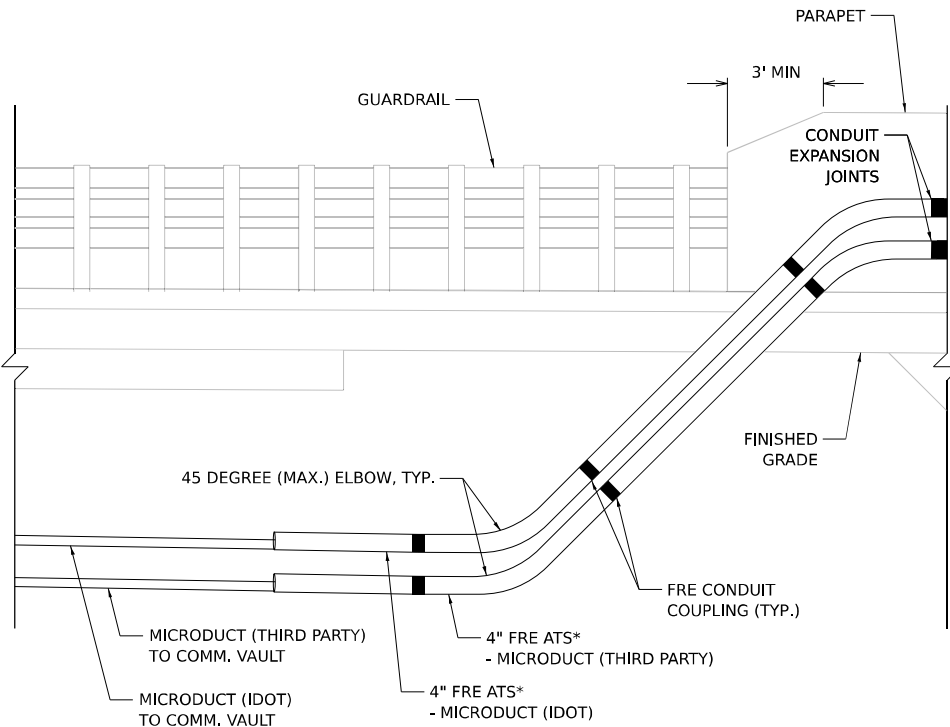
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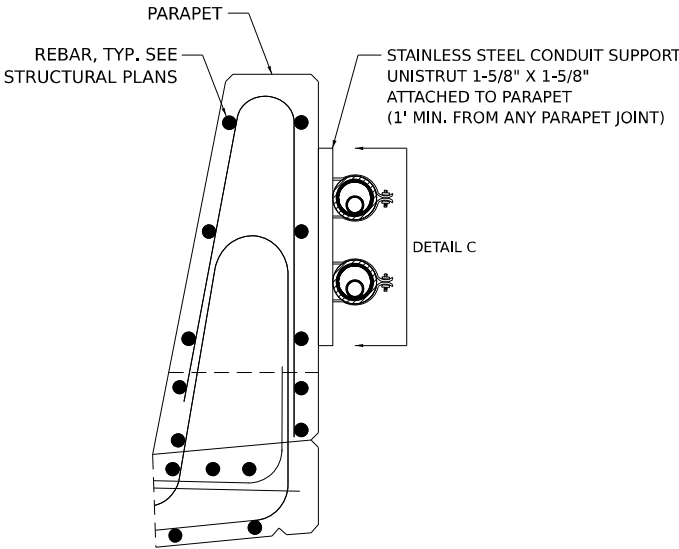
GROUND WELL DETAIL

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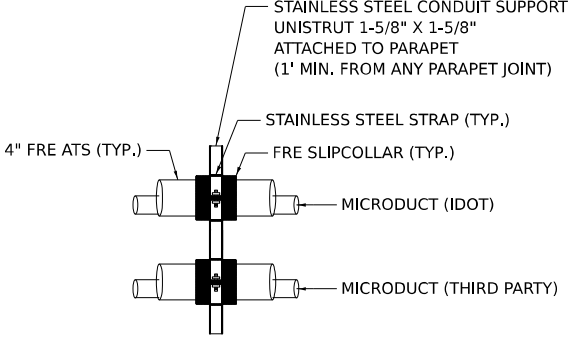
TranSmart 100 S. Wacker Drive Suite 400 Chicago, Illinois 60606	USER NAME = dmeier	DESIGNED - DM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ITS INFRASTRUCTURE DETAILS GROUND WELL DETAIL			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JM	REVISED -					I-80	FAI 80 21 STRUCTURE 7	WILL	1059	517
	PLOT SCALE = 100.000 ' / in.	CHECKED - RL	REVISED -					CONTRACT NO. 62R28				
	PLOT DATE = 8/9/2023	DATE - 08/11/2023	REVISED -		SCALE: NA	SHEET 6	OF 20 SHEETS	STA. NA	TO STA. NA	ILLINOIS FED. AID PROJECT		



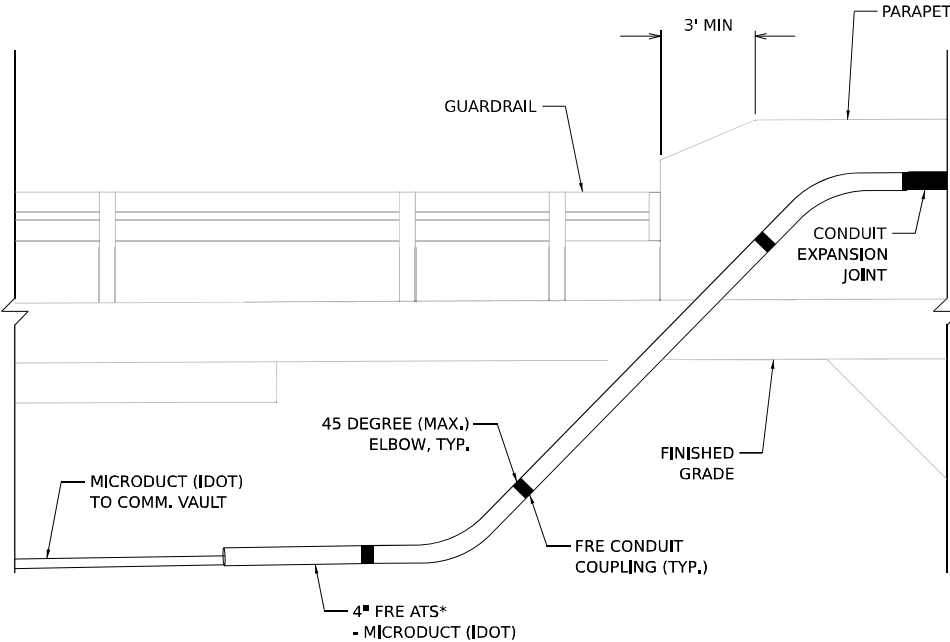
DETAIL A
I-80 EB OVER DUPAGE RIVER
WEST END OF BRIDGE



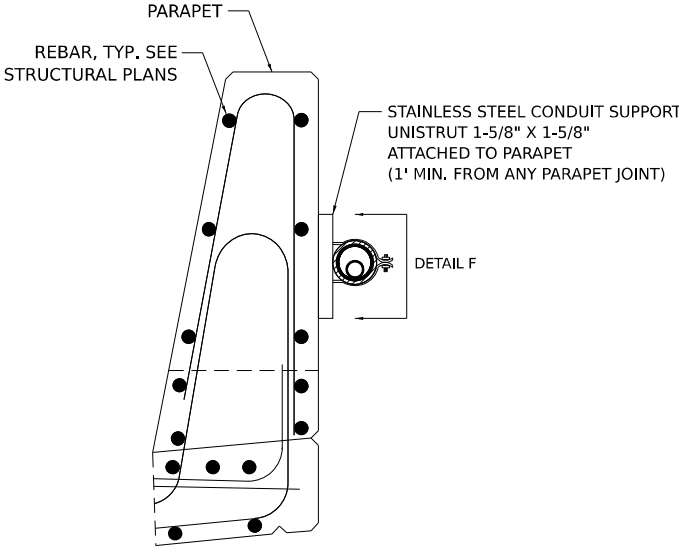
DETAIL B
I-80 EB OVER DUPAGE RIVER
BRIDGE PARAPET CROSS SECTION



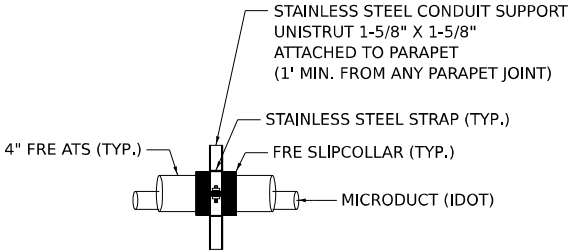
DETAIL C
I-80 EB OVER DUPAGE RIVER
TYPICAL CONDUIT SUPPORT DETAIL



DETAIL D
I-80 WB OVER DUPAGE RIVER
EAST END OF BRIDGE



DETAIL E
I-80 WB OVER DUPAGE RIVER
BRIDGE PARAPET CROSS SECTION



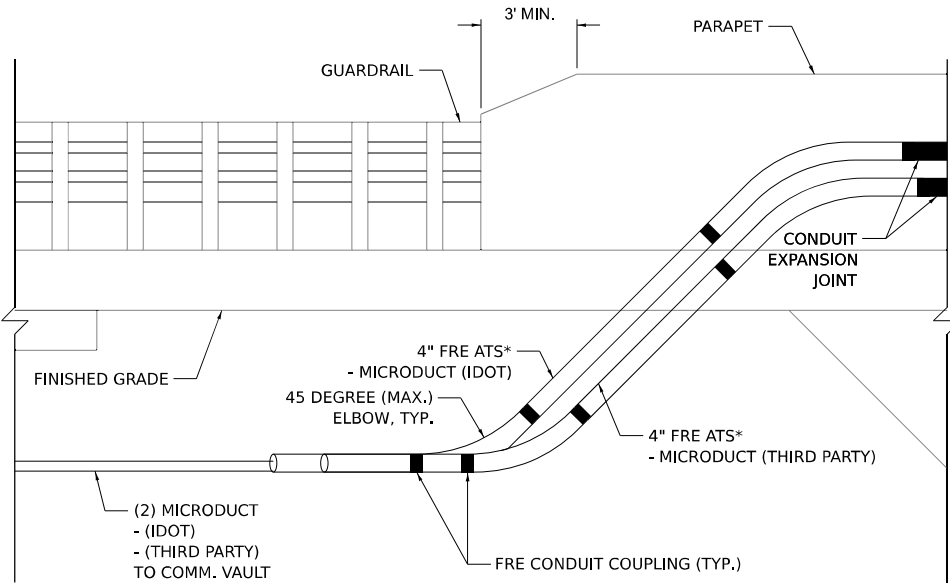
DETAIL F
I-80 WB OVER DUPAGE RIVER
TYPICAL CONDUIT SUPPORT DETAIL



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 62R28		
ILLINOIS		FED. AID PROJECT		

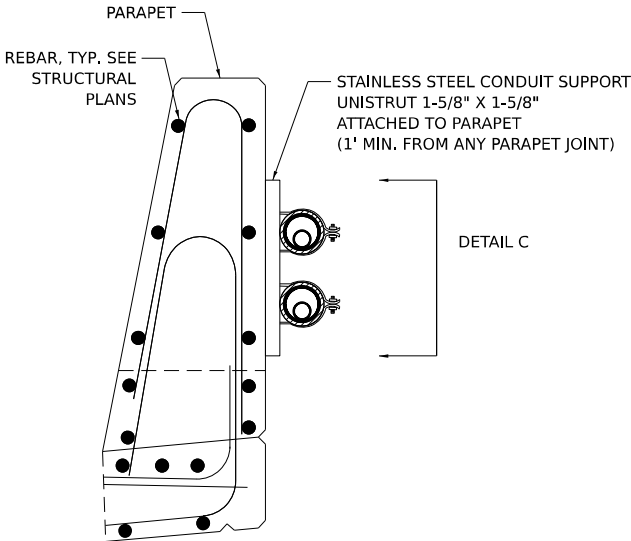


1. THIS SHEET IS FOR ITS CONDUIT ATTACHED TO STRUCTURE ONLY, SEE STRUCTURE NO. 099-8318 (EB) AND 099-8319 (WB) SHEETS FOR BRIDGE PLANS.
2. CONDUIT SUPPORTS NOT SHOWN FOR CLARITY.
3. CONDUIT EXPANSION JOINTS SHALL BE INSTALLED AT EACH END OF THE BRIDGE AND AT ALL BRIDGE EXPANSION JOINT OR INTERIOR FULL-DEPTH PARAPET JOINT LOCATIONS AND PER MANUFACTURER'S RECOMMENDATIONS.

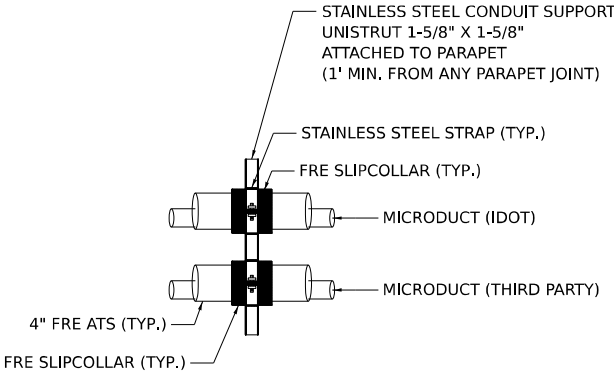


*FRE CONDUIT BELOW GRADE PAID FOR AS CONDUIT ATTACHED TO STRUCTURE

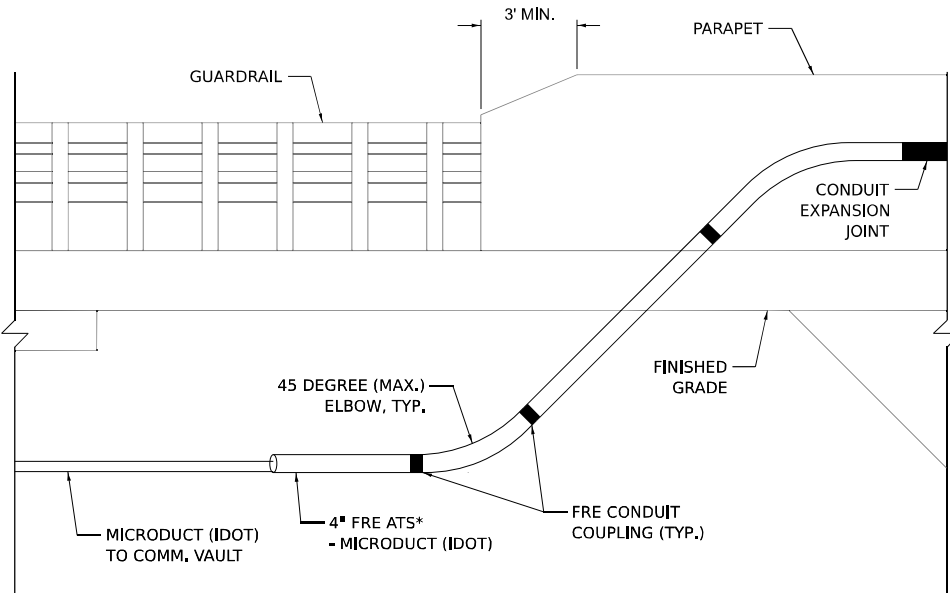
DETAIL A
I-80 EB OVER ROCK RUN CREEK
WEST END OF BRIDGE



DETAIL B
I-80 EB OVER ROCK RUN CREEK
BRIDGE PARAPET CROSS SECTION

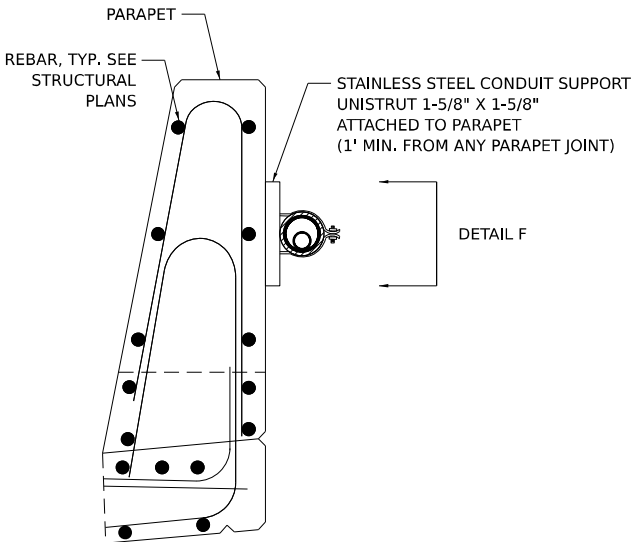


DETAIL C
I-80 EB OVER ROCK RUN CREEK
TYPICAL CONDUIT SUPPORT DETAIL

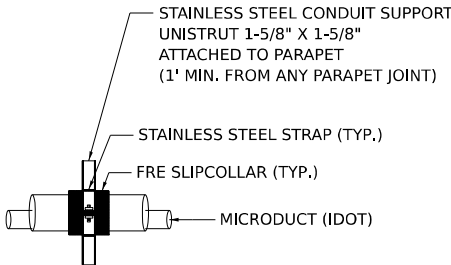


*FRE CONDUIT BELOW GRADE PAID FOR AS CONDUIT ATTACHED TO STRUCTURE

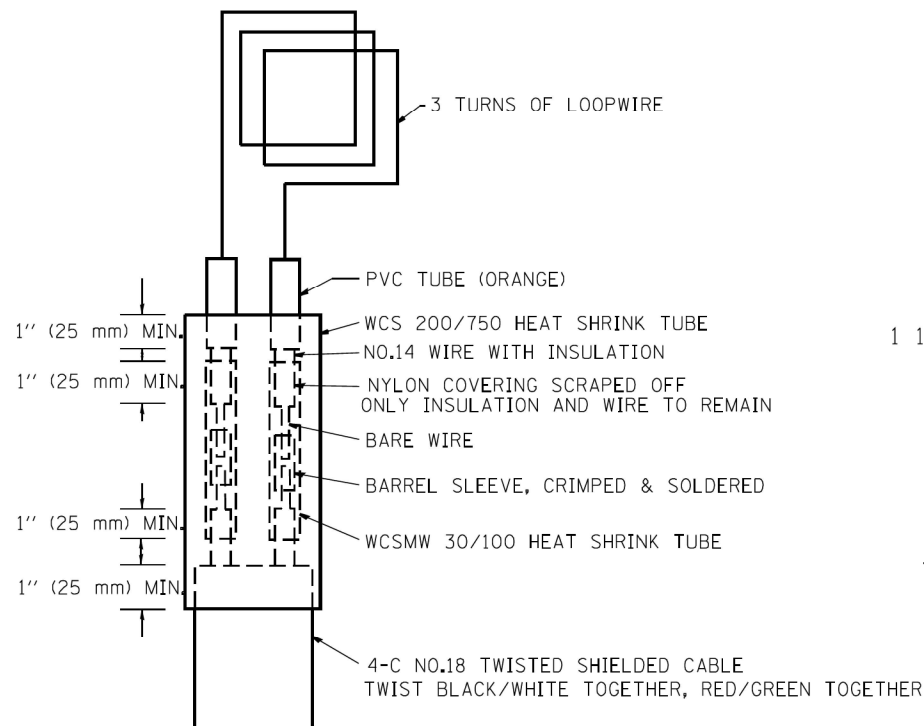
DETAIL D
I-80 WB OVER ROCK RUN CREEK
EAST END OF BRIDGE



DETAIL E
I-80 WB OVER ROCK RUN CREEK
BRIDGE PARAPET CROSS SECTION



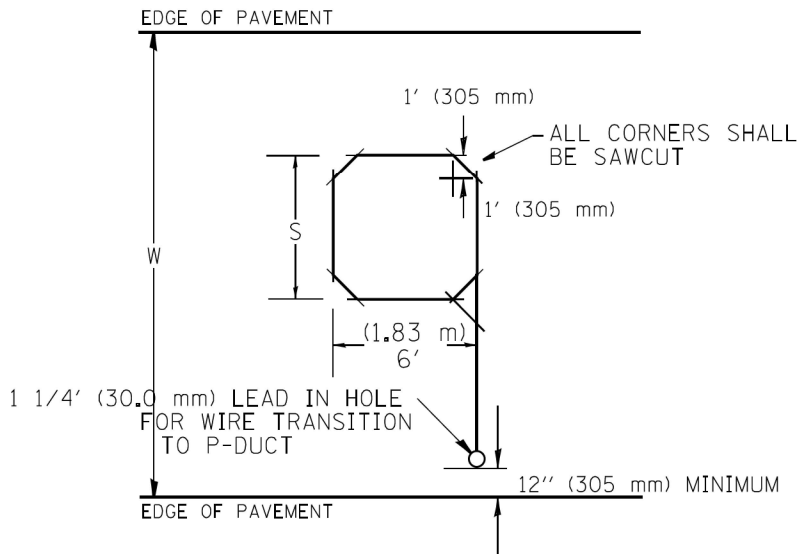
DETAIL F
I-80 WB OVER ROCK RUN CREEK
TYPICAL CONDUIT SUPPORT DETAIL



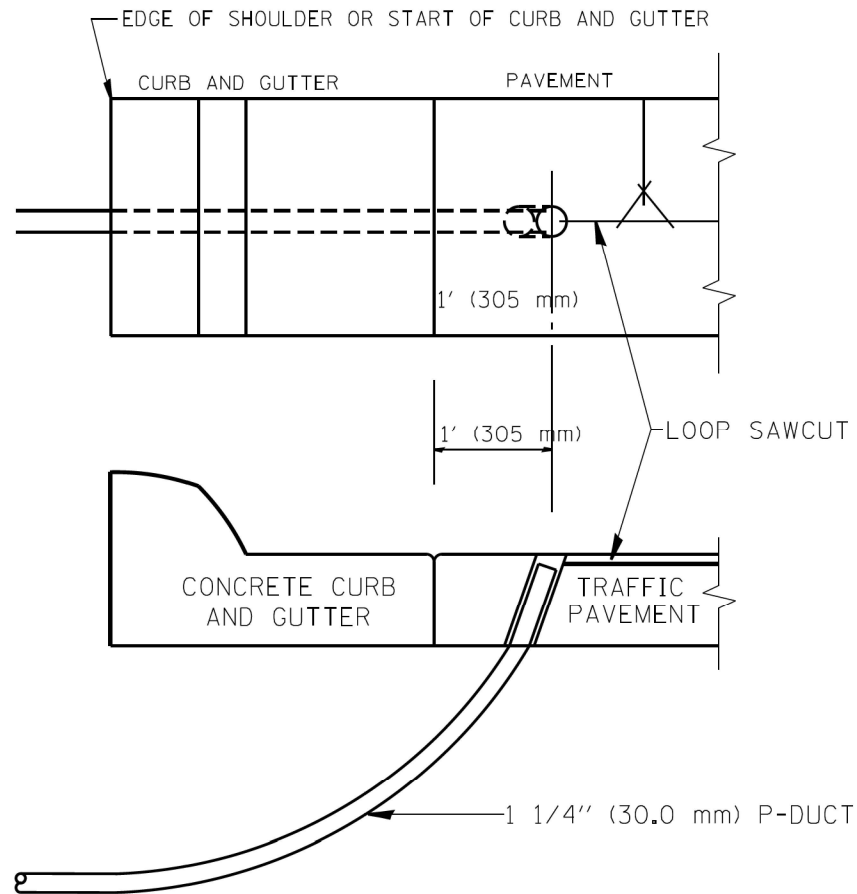
MINIMUM 1" (25 mm) HEAT SHRINK TUBING OVERLAP
ON WIRE, PVC & SHIELDED CABLE TO FORM WATER TIGHT SEAL

LOOP SPLICING REQUIREMENTS

TABLE 1	
WIDTH (W)	WIDTH (S)
12' (3.7 m)	8' (2.5 m)
13' (4.0 m)	9' (2.8 m)
14' (4.3 m)	10' (3.1 m)
15' (4.6 m)	11' (3.4 m)
16' (4.9 m)	12' (3.7 m)
17' (5.2 m)	13' (4.0 m)
18' (5.5 m)	14' (4.3 m)
19' (5.8 m)	15' (4.6 m)
20' (6.1 m)	18' (4.9 m)
21' (6.4 m)	17' (5.2 m)
22' (6.7 m)	18' (5.5 m)
23' (7.0 m)	19' (5.8 m)
24' (7.3 m)	20' (6.1 m)
25' (7.6 m)	21' (6.4 m)



TYPICAL "S" FT. BY 6' (1.83 m) INDUCTION LOOP SAWCUT LAYOUT FOR RAMP



CURB AND GUTTER LOOP LEAD-IN TRANSITION DETAIL

NOTES

- EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
- LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
- LOOPS SHALL NOT BE SPLICED IN SERIES.
- EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

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		DRAWN - G.M.	REVISED - 11/95											
	PLOT SCALE = 100.0000' / in.	CHECKED - R.L.	REVISED - 05/96		CONTRACT NO.									
	PLOT DATE = 2/7/2013	DATE - 6-22-94	REVISED - 10/96		SCALE: NONE	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

TRAFFIC SYSTEMS CENTER (TY-1TSC-418#3)

TSC.TYP.dgn 2/7/2013 9:30:20 AM User=mezag

TranSmart
100 S. Wacker Drive Suite 400
Chicago, Illinois 60606

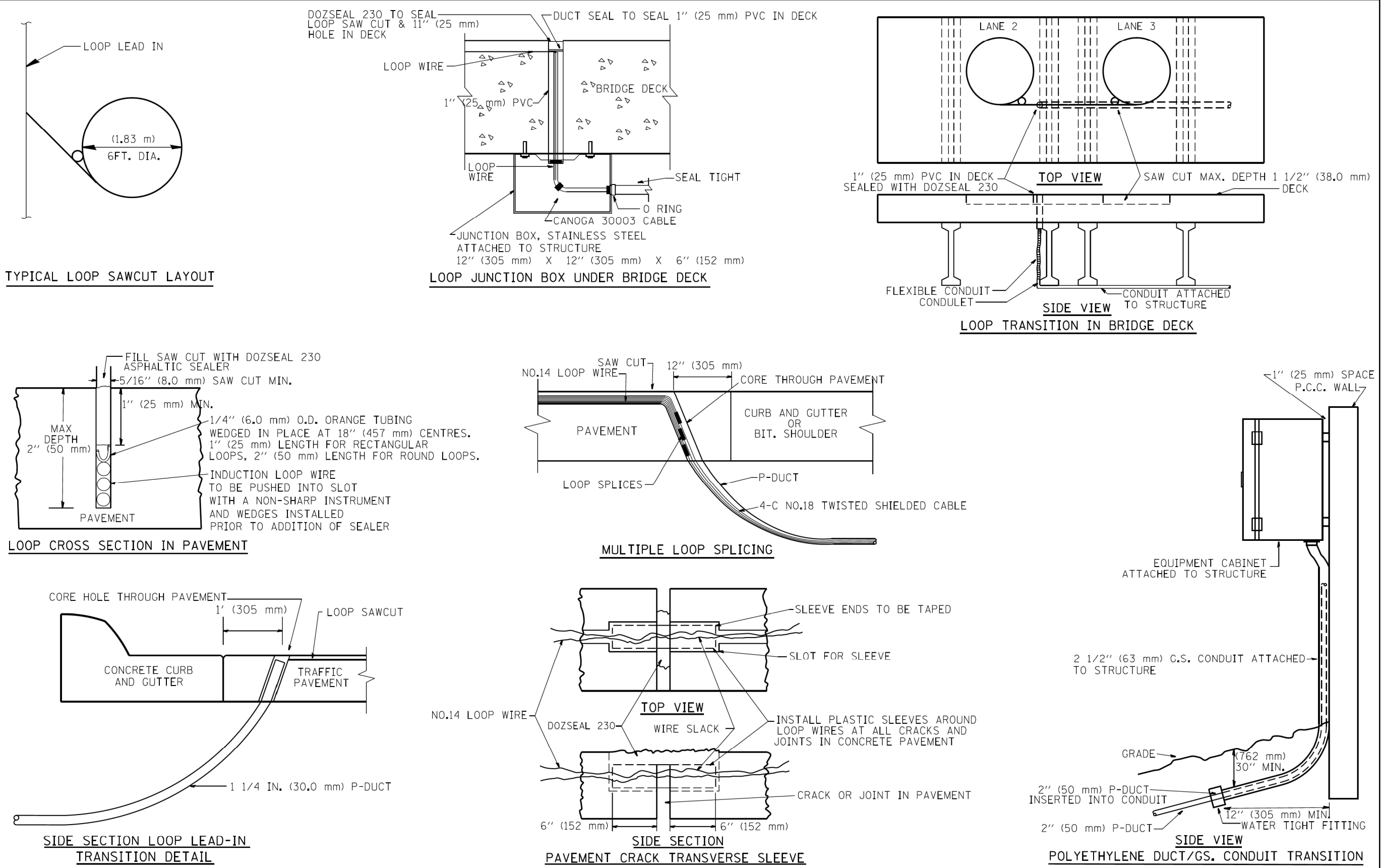
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	DRAWN - DM	REVISED -
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PLOT DATE = 8/9/2023	DATE - 08/11/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

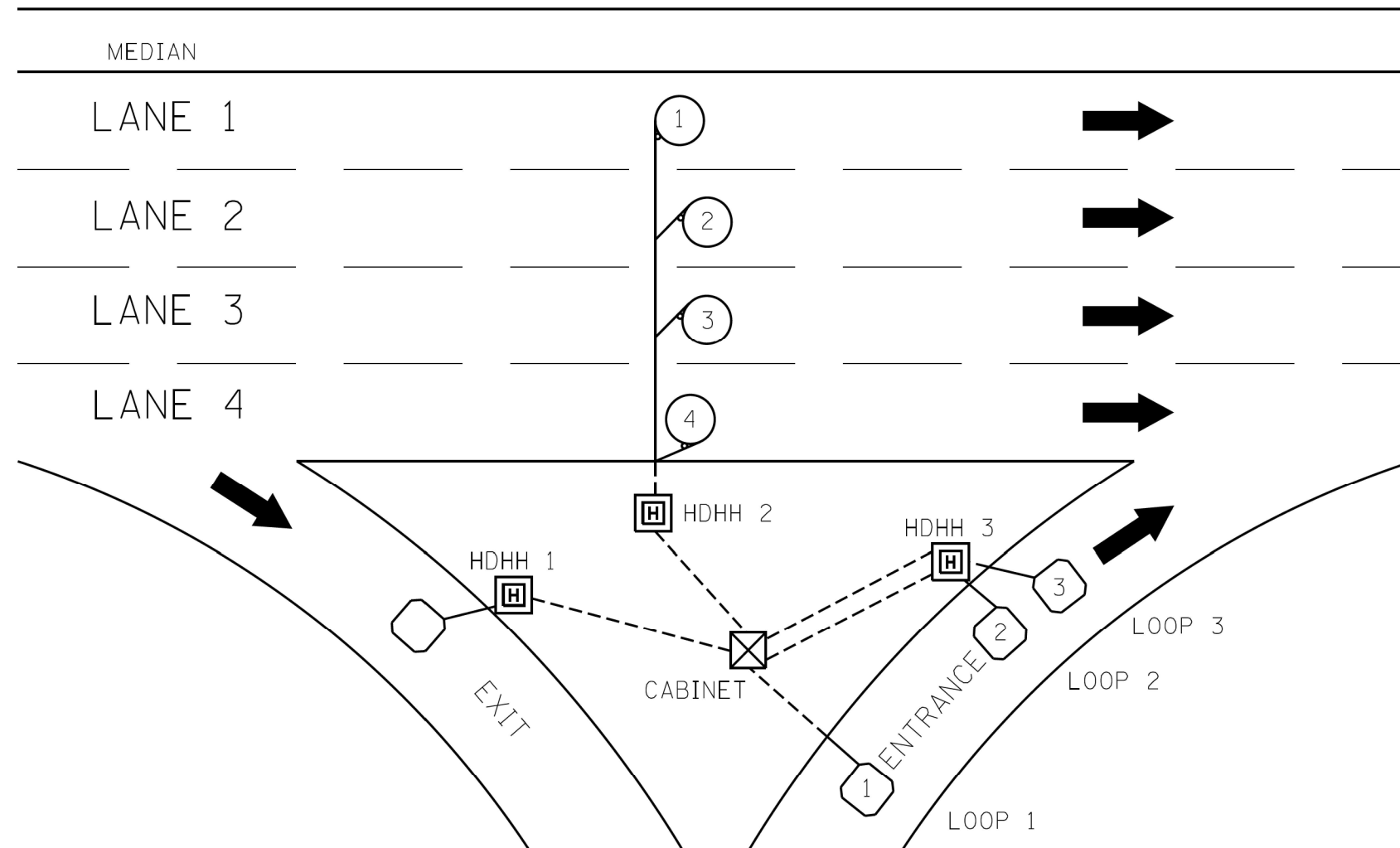
ITS INFRASTRUCTURE DETAILS
INDUCTION LOOP - TSC STANDARD 418#3

SCALE: 1"=50' SHEET 14 OF 20 SHEETS STA. NA TO STA. NA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	525
CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				



FILE NAME = c:\pw_work\p\sdot\mezag\ad0287541\TSCYP.dgn	USER NAME = mezag	DESIGNED - R.L.	REVISED - 06/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	LOOP, CONDUIT & DUCT INSTALLATION DETAILS				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - G.M.	REVISED - 03/95										
	PLOT SCALE = 100,0000' / in.	CHECKED - R.L.	REVISED - 11/95						CONTRACT NO.				
	PLOT DATE = 2/7/2013	DATE - 06/22/94	REVISED - 10/96						SCALE: NONE	SHEET NO.	OF	SHEETS	STA.



SIZE

2.5'' (63.5 mm) X 1.75'' (44.45 mm)

SUGGESTED TAG
PANDUIT
#MP250W175-C
OR EQUIVALENT

[illegible]

HDHH 1 EXAMPLE

IB-EB EXIT
CCW IN/
TO CABINET # _____

HDHH 2 EXAMPLE

IB (OB) LANE #____
CCW /OUT
TO CABINET #____

HDHH 3 EXAMPLE

IB-EB ENT.
LOOP #2
CW IN/

NOTE:

EACH LOOP WIRE SHALL BE TAGGED AS "IN" OR "OUT" AND "CW" OR "CCW". SHIELDED CABLE WILL BE TAGGED IN EACH HANDHOLE AND CABINET TO MATCH THE CABLE LOG.

FILE NAME = c:\pwwork\pwwidat\mezag\d0287541\TSC.TYF		USER NAME = mezag Design		DESIGNED - R.L. DRAWN - G.M.		REVISED - 6/94 REVISED - 10/96		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER				LOOP STATUS REPORT						F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT DATE = 2/7/2013																								
TRAFFIC SYSTEMS CENTER (TY-1TSC-418#7)																								
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PLOT DATE = 8/9/2023																CONTRACT NO. 62R28		ILLINOIS FED. AID PROJECT						

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DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION			
TRUNK CABLE DESIGNATION		TCF-		DESTINATION			
BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	BUFFER TUBE	FIBER NO	FIBER NO	ASSIGNMENT
BLUE	Blue	1		SLATE	Blue	49	
	Orange	2			Orange	50	
	Green	3			Green	51	
	Brown	4			Brown	52	
	Slate	5			Slate	53	
	White	6			White	54	
	Red	7			Red	55	
	Black	8			Black	56	
	Yellow	9			Yellow	57	
	Violet	10			Violet	58	
	Rose	11			Rose	59	
	Aqua	12			Aqua	60	
ORANGE	Blue	1	13	WHITE	Blue	61	
	Orange	2	14		Orange	62	
	Green	3	15		Green	63	
	Brown	4	16		Brown	64	
	Slate	5	17		Slate	65	
	White	6	18		White	66	
	Red	7	19		Red	67	
	Black	8	20		Black	68	
	Yellow	9	21		Yellow	69	
	Violet	10	22		Violet	70	
	Rose	11	23		Rose	71	
	Aqua	12	24		Aqua	72	
GREEN	Blue	1	25	RED	Blue	73	
	Orange	2	26		Orange	74	
	Green	3	27		Green	75	
	Brown	4	28		Brown	76	
	Slate	5	29		Slate	77	
	White	6	30		White	78	
	Red	7	31		Red	79	
	Black	8	32		Black	80	
	Yellow	9	33		Yellow	81	
	Violet	10	34		Violet	82	
	Rose	11	35		Rose	83	
	Aqua	12	36		Aqua	84	
BROWN	Blue	1	37	BLACK	Blue	85	
	Orange	2	38		Orange	86	
	Green	3	39		Green	87	
	Brown	4	40		Brown	88	
	Slate	5	41		Slate	89	
	White	6	42		White	90	
	Red	7	43		Red	91	
	Black	8	44		Black	92	
	Yellow	9	45		Yellow	93	
	Violet	10	46		Violet	94	
	Rose	11	47		Rose	95	
	Aqua	12	48		Aqua	96	



USER NAME = dmeier	DESIGNED - DM	REVISED -
	DRAWN - DM	REVISED -
PLOT SCALE = 100,000 ' / in.	CHECKED - RL	REVISED -
PLOT DATE = 8/9/2023	DATE - 08/11/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE DETAILS			
I-55 TRUNK CABLE FIBER ASSIGNMENTS			
SCALE: NONE	SHEET 17	OF 20 SHEETS	STA. NA TO STA. NA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	528
BE-2100		CONTRACT NO. 62R28		
		ILLINOIS	FED. AID PROJECT	

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DISTRIBUTION CABLE FIBER ASSIGNMENTS				ORIGINATION			
DISTRIBUTION CABLE DESIGNATION		DCF -		DESTINATION			
BUFFER TUBE	FIBER	FIBER NO	ASSIGNMENT	BUFFER TUBE	FIBER NO	FIBER NO	ASSIGNMENT
BLUE	Blue	1		SLATE	Blue	49	
	Orange	2			Orange	50	
	Green	3			Green	51	
	Brown	4			Brown	52	
	Slate	5			Slate	53	
	White	6			White	54	
	Red	7			Red	55	
	Black	8			Black	56	
	Yellow	9			Yellow	57	
	Violet	10			Violet	58	
	Rose	11			Rose	59	
	Aqua	12			Aqua	60	
ORANGE	Blue	1	13	WHITE	Blue	61	
	Orange	2	14		Orange	62	
	Green	3	15		Green	63	
	Brown	4	16		Brown	64	
	Slate	5	17		Slate	65	
	White	6	18		White	66	
	Red	7	19		Red	67	
	Black	8	20		Black	68	
	Yellow	9	21		Yellow	69	
	Violet	10	22		Violet	70	
	Rose	11	23		Rose	71	
	Aqua	12	24		Aqua	72	
GREEN	Blue	1	25	RED	Blue	73	
	Orange	2	26		Orange	74	
	Green	3	27		Green	75	
	Brown	4	28		Brown	76	
	Slate	5	29		Slate	77	
	White	6	30		White	78	
	Red	7	31		Red	79	
	Black	8	32		Black	80	
	Yellow	9	33		Yellow	81	
	Violet	10	34		Violet	82	
	Rose	11	35		Rose	83	
	Aqua	12	36		Aqua	84	
BROWN	Blue	1	37	BLACK	Blue	85	
	Orange	2	38		Orange	86	
	Green	3	39		Green	87	
	Brown	4	40		Brown	88	
	Slate	5	41		Slate	89	
	White	6	42		White	90	
	Red	7	43		Red	91	
	Black	8	44		Black	92	
	Yellow	9	45		Yellow	93	
	Violet	10	46		Violet	94	
	Rose	11	47		Rose	95	
	Aqua	12	48		Aqua	96	



USER NAME = dmeyer	DESIGNED - DM	REVISED -
	DRAWN - DM	REVISED -
PLOT SCALE = 100,000 ' / in.	CHECKED - RL	REVISED -
PLOT DATE = 8/9/2023	DATE - 08/11/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE DETAILS
I-55 DISTRIBUTION CABLE FIBER ASSIGNMENTS

SCALE: NONE SHEET 18 OF 20 SHEETS STA. NA TO STA. NA

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	529
BE-2110		CONTRACT NO. 62R28		
		ILLINOIS	FED. AID PROJECT	

Model: Default
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LATERAL CABLE FIBER ASSIGNMENTS		
LCF-		
FIBER NO	FUNCTION	CONNECTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-		
FIBER NO	FUNCTION	CONNECTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-		
FIBER NO	FUNCTION	CONNECTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

LATERAL CABLE FIBER ASSIGNMENTS		
LCF-		
FIBER NO	FUNCTION	CONNECTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		



USER NAME	= dmeyer
PLOT SCALE	= 100.000 ' / in.
PLOT DATE	= 8/9/2023

DESIGNED	-	DM
DRAWN	-	DM
CHECKED	-	RL
DATE	-	08/11/2023

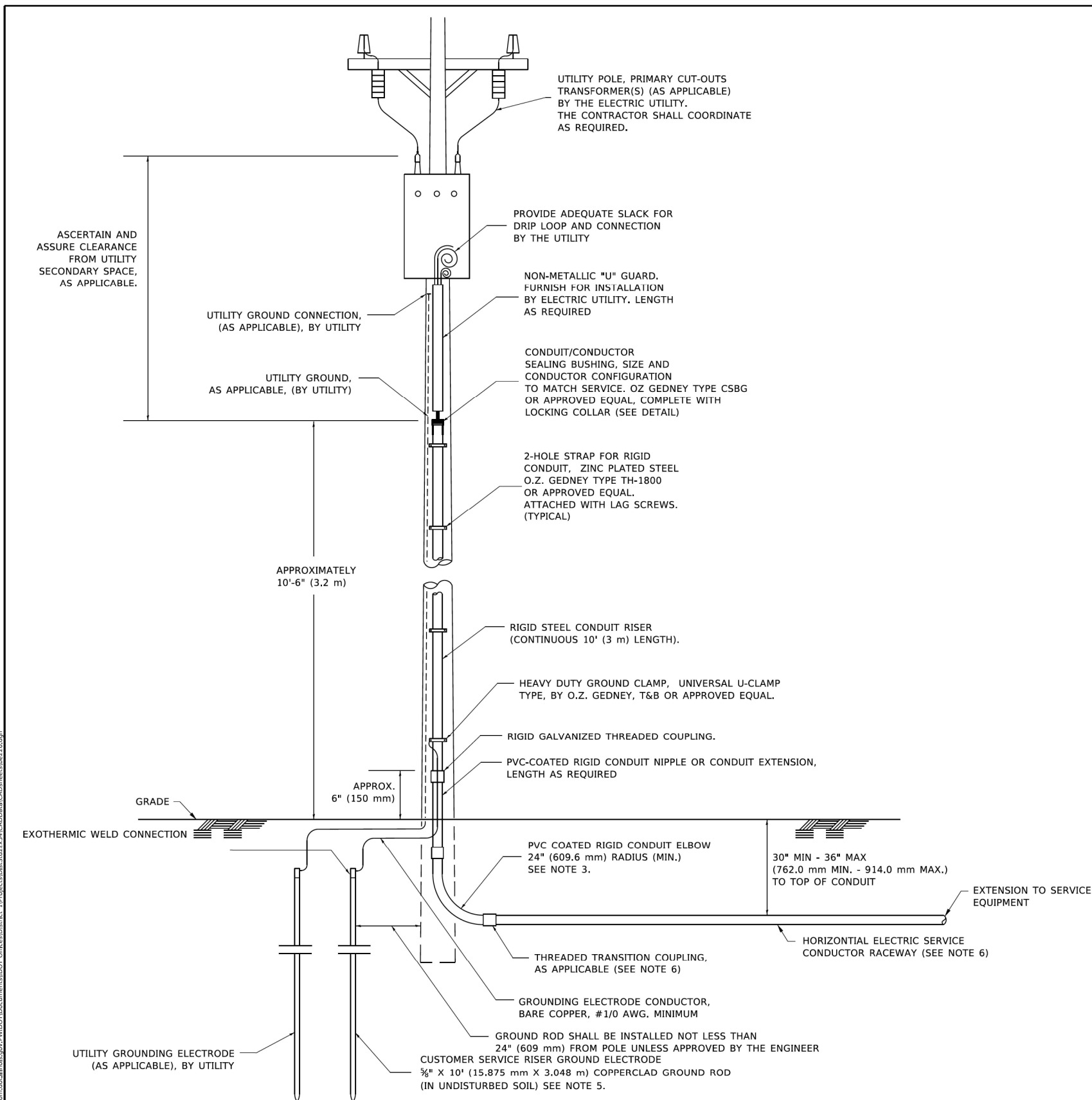
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS INFRASTRUCTURE DETAILS
I-55 LATERAL CABLE FIBER ASSIGNMENTS

SCALE: NONE	SHEET 19	OF 20	SHEETS	STA. NA	TO STA. NA
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	530
BE-2120		CONTRACT NO. 62R28		
		ILLINOIS	FED. AID PROJECT	

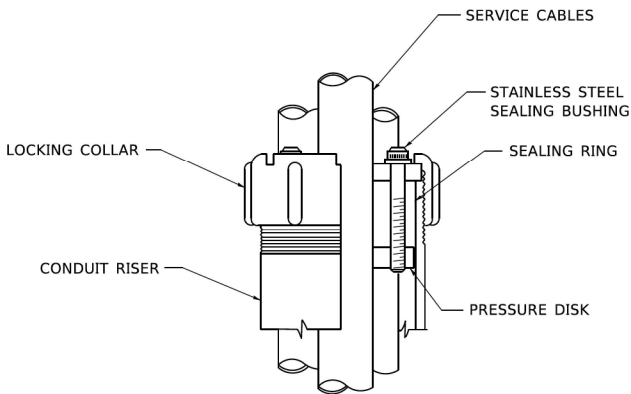


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

- 1. SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- 2. UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- 3. CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- 4. PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- 5. THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- 6. THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- 7. PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.

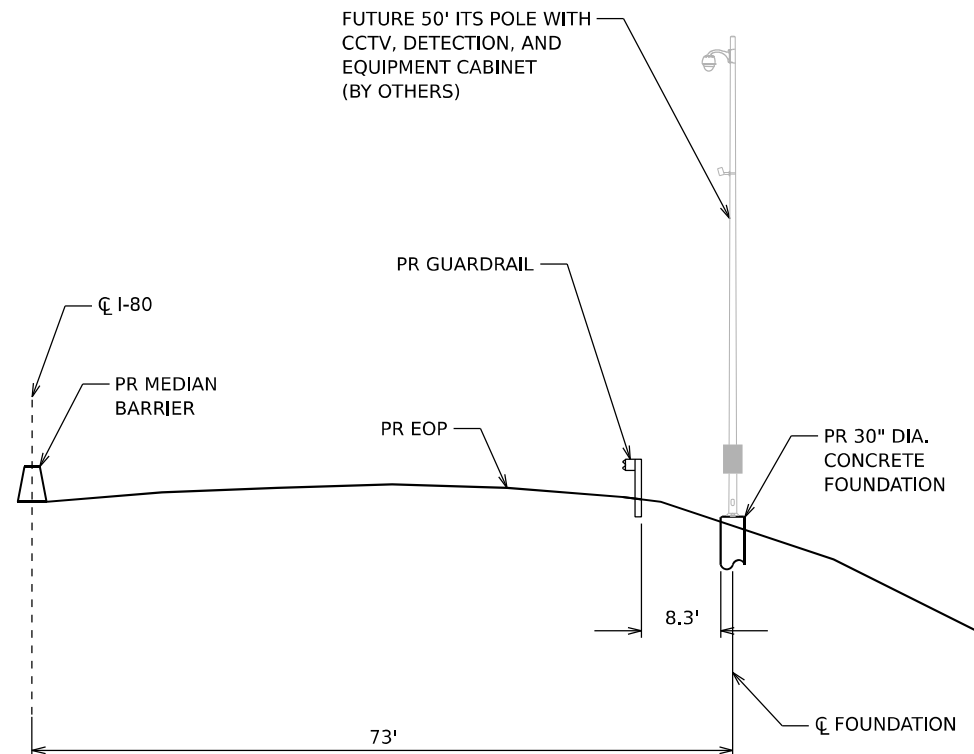


SEALING BUSHING DETAIL

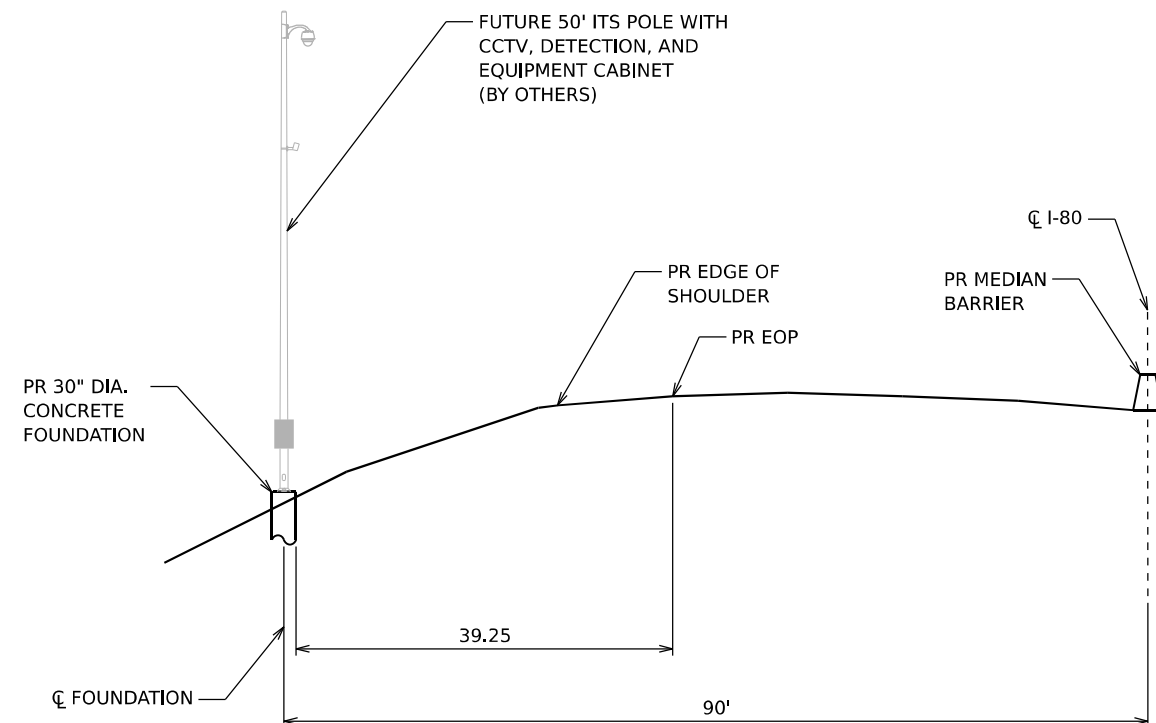
	USER NAME = footemj	DESIGNED -	REVISED - 03-03-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -										
	PLOT SCALE = 50,0000 ' / in.	CHECKED - MEA	REVISED -		BE-220		CONTRACT NO.						
	PLOT DATE = 4/19/2019	DATE -	REVISED -						ILLINOIS	FED. AID PROJECT			
					SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.			

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	DRAWN - DM	REVISED -
PLOT SCALE = 100.000 ' / in.	CHECKED - RL	REVISED -
PLOT DATE = 8/9/2023	DATE - 08/11/2023	REVISED -

IDOT D1 STANDARD BE-220						F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						I-80	FAI 80 21 STRUCTURE 7	WILL	1059	531
						CONTRACT NO. 62R28				
						ILLINOIS FED. AID PROJECT				
SCALE: NA						SHEET 20	OF 20	SHEETS	STA. NA	TO STA. NA



STA 316+00
(LOOKING EAST)
30" DIA. CONCRETE FOUNDATION



STA 343+00
(LOOKING EAST)
30" DIA. CONCRETE FOUNDATION

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PLOT DATE	= 8/16/2023	DATE -	05/26/2023	REVISED -	

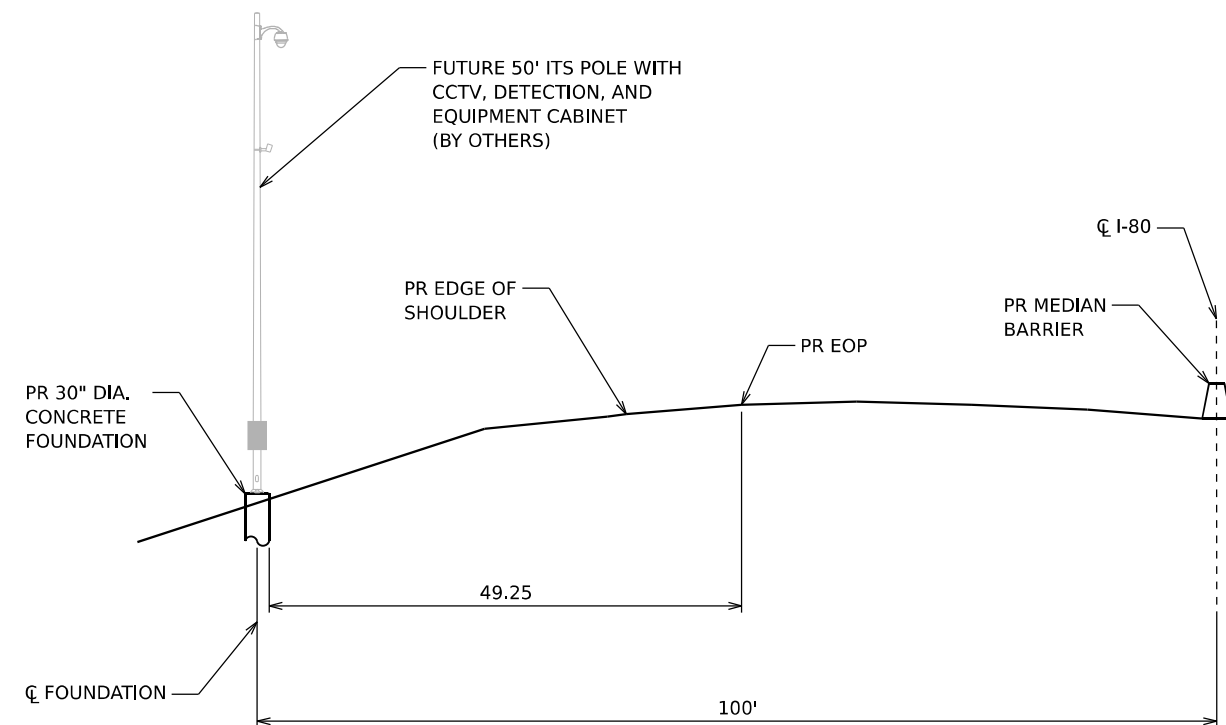
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS CROSS SECTIONS

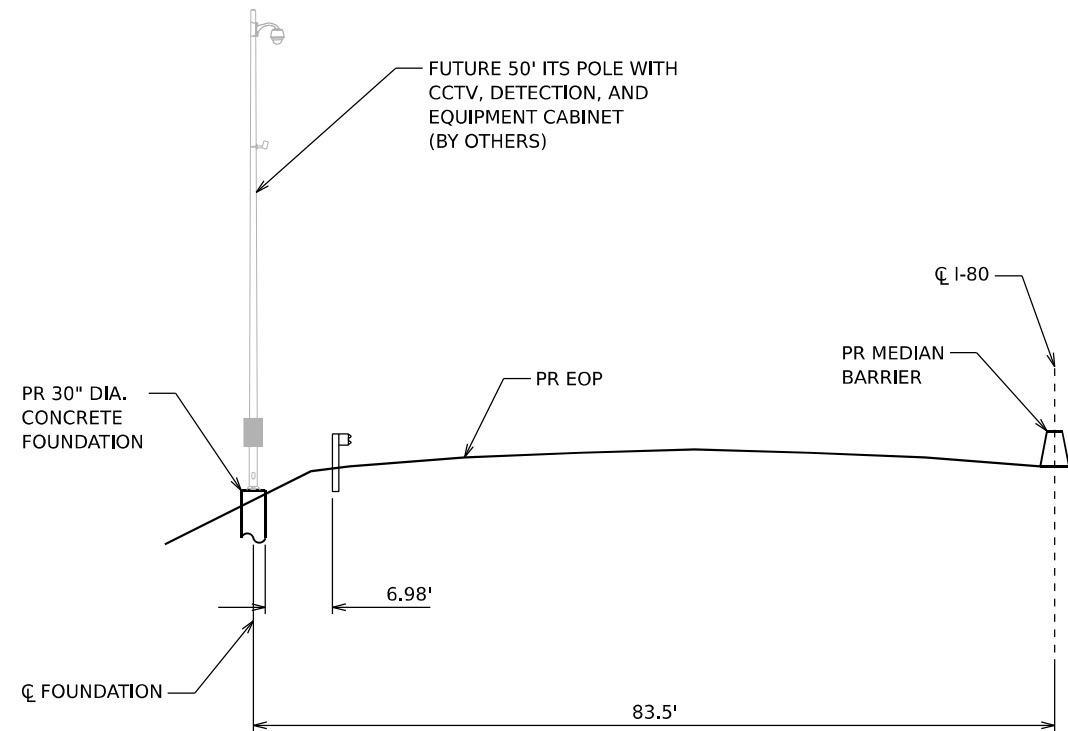
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CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				

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STA 369+25
(LOOKING EAST)
30" DIA. CONCRETE FOUNDATION



STA 385+00
(LOOKING EAST)
30" DIA. CONCRETE FOUNDATION



USER NAME	= Suic	DESIGNED -	CS	REVISED -	
		DRAWN -	CS	REVISED -	
PLOT SCALE	= 100,000' / in.	CHECKED -	BRH	REVISED -	
PLOT DATE	= 8/16/2023	DATE -	05/26/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ITS CROSS SECTIONS

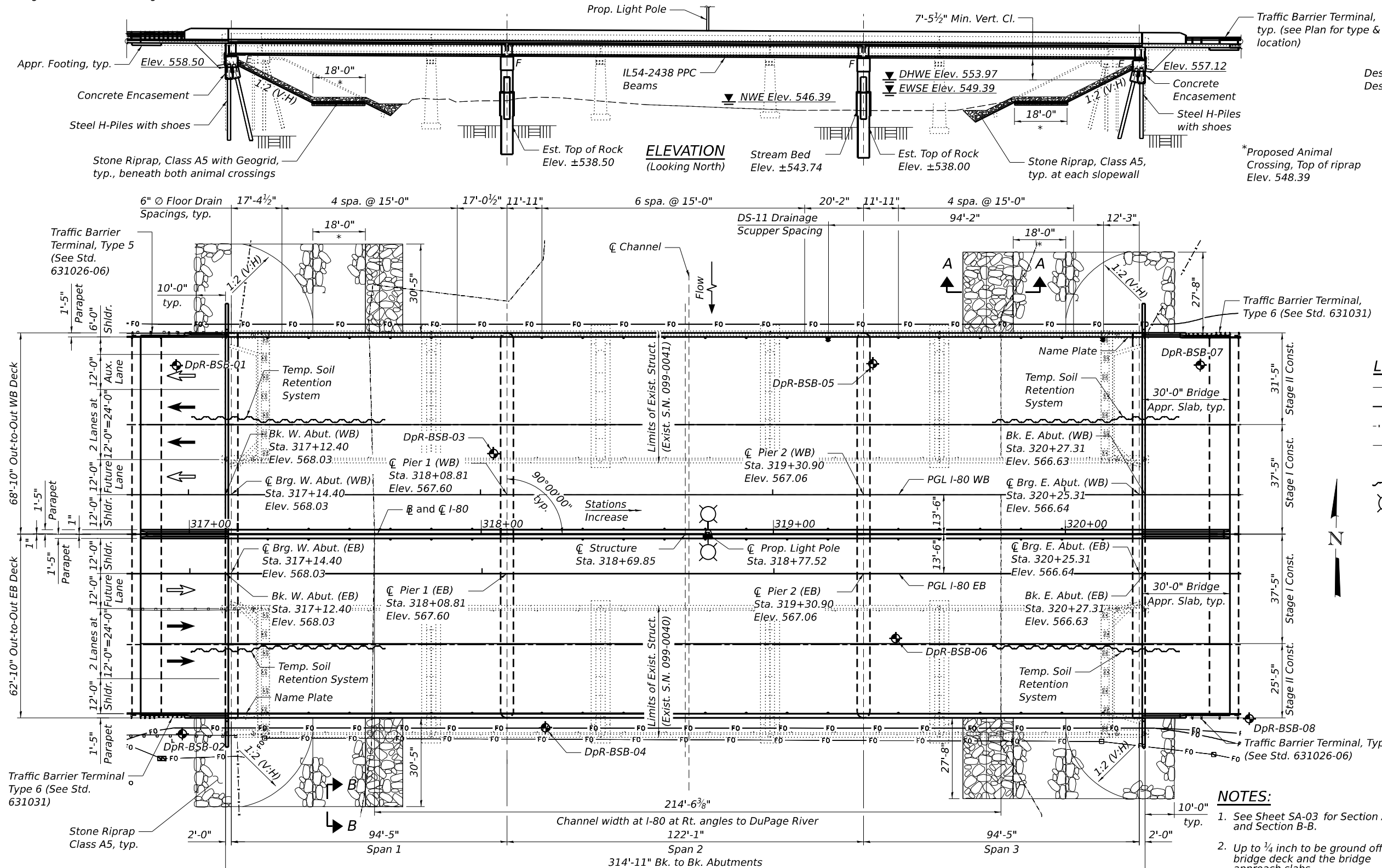
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	533
CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				

Benchmark: Set 2" CWA aluminum disc at top of concrete parapet wall at SE corner of eastbound I-80 Bridge over DuPage River. Elevation 568.745.

Existing Structure: S.N.s 099-0040 (EB) and 099-0041 (WB) were originally constructed in 1960 as 5-Span dual bridges with no skew carrying two lanes of eastbound, and two lanes of westbound, I-80 traffic over the DuPage River (F.A.I. Route I-80; FA Project I-80-4 (9); Section 99-1B). In 1982, the structures were widened by adding an additional beam line along the outside edges of existing roadway (F.A.I. Route 80, Proj. I-IR-80-4 (140) 123; Section 99-1B-BR-79) and in 2008, typical repairs including expansion joint replacement, deck slab repairs, bridge deck scarification and overlay placement, and substructure repairs were performed (F.A.I. Route 80; C-91-084-08; Section 99-1-B-I-2). The bridges have an overall length of approximately 292'-9" (Back-to-Back Abutments), an overall width of approximately 45'-2" (Out-to-Out deck) and consist of a 7"- thick reinforced concrete deck with 2 1/4" latex concrete overlay. The existing deck is supported by seven (7) - 42" PPC I-Beams at 6'-4" to 6'-6" center-to-center spacing. The substructures consist of reinforced concrete stub abutments on battered and straight steel piles on bedrock and reinforced concrete solid wall piers with spread footings on rock. The structures will be removed and replaced. Traffic will be maintained utilizing staged construction.

Salvage: No Salvage.



USER NAME	=	DESIGNED	-	JJS, PG	REVISED	-
PLOT SCALE	=	CHECKED	-	MI, JJS	REVISED	-
PLOT DATE	=	DRAWN	-	PG	REVISED	-
		CHECKED	-	MI, JJS	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

SHEET SA-01 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	534
CONTRACT NO. 62R28				

ILLINOIS FED. AID PROJECT



Signed *Moussa A. Issa*
Dr. Moussa A. Issa, S.E. IL. Lic. No. 081-005738
Expires 11-30-2024
Date 09/08/2023 For Sheets SA-01 Thru SA-98

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge
Design Specifications, 9th Edition

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.068g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.127g
Soil Site Class = C

LOADING HL-93

Allow 50#/sq. ft. for future
wearing surface.

DESIGN STRESSES

FIELD UNITS

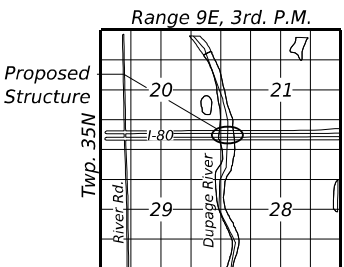
f_c = 3,500 psi (Substructure)
f_c = 4,000 psi (Superstructure)
f_y = 60,000 psi (Reinforcement)
f_y = 50,000 psi (M270 Grade 50)

PRECAST PRESTRESSED UNITS

f_c = 8,500 psi
f_{ci} = 6,500 psi
f_{pu} = 270,000 psi (0.6" Ø low lax. strands)
f_{pbt} = 202,300 psi (0.6" Ø low lax. strands)

LEGEND:

- FO ———— Exist. Fiber Optic Line, to be relocated
- FO ———— Prop. Fiber Optic Line
- Exist. Fence
- Exist. Guardrail, to be removed
- ◆ Soil Boring
- Temp. Soil Retention System
- Proposed Light Pole



LOCATION SKETCH

GENERAL PLAN AND ELEVATION I-80 EB/WB OVER DUPAGE RIVER

F.A.I. RTE. I-80

SECTION FAI 80 21 STRUCTURE 7

WILL COUNTY

STA. 318+69.85

STRUCTURE NO. 099-8312 (EB)

STRUCTURE NO. 099-8313 (WB)

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INDEX OF SHEETS

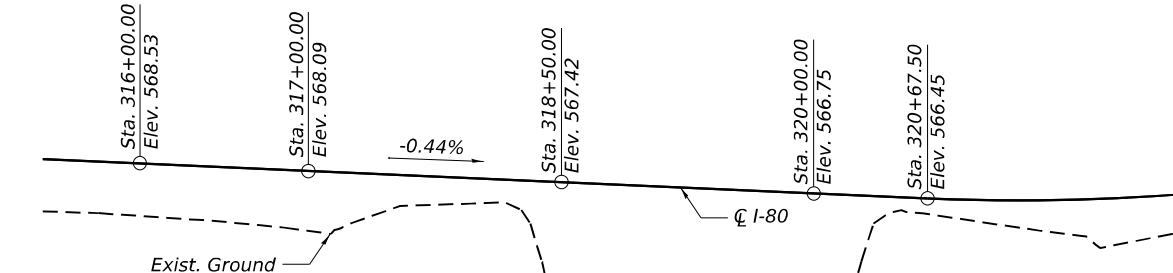
SA-01	General Plan and Elevation
SA-02	Index of Sheets and Total Bill of Material
SA-03	General Notes and Miscellaneous Details
SA-04	Stage Construction (Sheet 1 of 2)
SA-05	Stage Construction (Sheet 2 of 2)
SA-06	Temporary Concrete Barrier
SA-07	WB & EB Substructure Layout
SA-08	WB Temporary Soil Retention System
SA-09	EB Temporary Soil Retention System
SA-10	WB Exist. Struct. Rem. Plan and Elevation
SA-11	WB Exist. Struct. Rem. Sections and Details (Sht 1 of 3)
SA-12	WB Exist. Struct. Rem. Sections and Details (Sht 2 of 3)
SA-13	WB Exist. Struct. Rem. Sections and Details (Sht 3 of 3)
SA-14	EB Exist. Struct. Rem. Plan and Elevation
SA-15	EB Exist. Struct. Rem. Sections & Details (Sht 1 of 3)
SA-16	EB Exist. Struct. Rem. Sections & Details (Sht 2 of 3)
SA-17	EB Exist. Struct. Rem. Sections & Details (Sht 3 of 3)
SA-18	WB Top of Slab Elevation Layout
SA-19	WB Top of Slab Elevation Tables (Sheet 1 of 6)
SA-20	WB Top of Slab Elevation Tables (Sheet 2 of 6)
SA-21	WB Top of Slab Elevation Tables (Sheet 3 of 6)
SA-22	WB Top of Slab Elevation Tables (Sheet 4 of 6)
SA-23	WB Top of Slab Elevation Tables (Sheet 5 of 6)
SA-24	WB Top of Slab Elevation Tables (Sheet 6 of 6)
SA-25	EB Top of Slab Elevation Layout
SA-26	EB Top of Slab Elevation Tables (Sheet 1 of 5)
SA-27	EB Top of Slab Elevation Tables (Sheet 2 of 5)
SA-28	EB Top of Slab Elevation Tables (Sheet 3 of 5)
SA-29	EB Top of Slab Elevation Tables (Sheet 4 of 5)
SA-30	EB Top of Slab Elevation Tables (Sheet 5 of 5)
SA-31	WB Top of W. Approach Slab Layout and Tables
SA-32	WB Top of E. Approach Slab Layout and Tables
SA-33	EB Top of W. Approach Slab Layout and Tables
SA-34	EB Top of E. Approach Slab Layout and Tables
SA-35	WB Deck Plan
SA-36	WB Deck Cross Section
SA-37	WB Parapet Elevations
SA-38	WB Median Mounted Light Pole Details
SA-39	WB W. and E. Abutment Diaphragm Details
SA-40	WB Pier 1 and 2 Diaphragm Details
SA-41	WB Deck Sections, Bar Diagrams & Bill of Material
SA-42	EB Deck Plan
SA-43	EB Deck Cross Section
SA-44	EB Parapet Elevations
SA-45	EB W. and E. Abutment Diaphragm Details
SA-46	EB Pier 1 and 2 Diaphragm Details
SA-47	EB Deck Sections, Bar Diagrams & Bill of Material
SA-48	WB W. Precast Approach Slab Plan
SA-49	WB W. Precast Approach Slab Beam Details
SA-50	WB W. Precast Approach Slab Sections and Details
SA-51	WB E. Precast Approach Slab Plan
SA-52	WB E. Precast Approach Slab Beam Details
SA-53	WB E. Precast Approach Slab Sections and Details
SA-54	EB W. Precast Approach Slab Plan
SA-55	EB W. Precast Approach Slab Beam Details
SA-56	EB W. Precast Approach Slab Sections and Details
SA-57	EB E. Precast Approach Slab Plan
SA-58	EB E. Precast Approach Slab Beam Details
SA-59	EB E. Precast Approach Slab Sections and Details
SA-60	Modified Preformed Joint Strip Seal
SA-61	WB Drainage Scupper, DS-11
SA-62	WB I-80 Framing Plan
SA-63	WB I-80 IL54-2438 PPC I-Beam (Spans 1 and 3)
SA-64	WB I-80 IL54-2438 PPC I-Beam (Span 2)
SA-65	WB I-80 IL54-2438 PPC I-Beam Details
SA-66	EB I-80 Framing Plan
SA-67	EB I-80 IL54-2438 PPC I-Beam (Spans 1 and 3)
SA-68	EB I-80 IL54-2438 PPC I-Beam (Span 2)
SA-69	EB I-80 IL54-2438 PPC I-Beam Details
SA-70	WB and EB Bearing Details

INDEX OF SHEETS (CONT.)

SA-71	WB West Abutment Plan and Elevation
SA-72	WB West Abutment Sections and Details
SA-73	WB East Abutment Plan and Elevation
SA-74	WB East Abutment Sections and Details
SA-75	EB West Abutment Plan and Elevation
SA-76	EB West Abutment Sections and Details
SA-77	EB East Abutment Plan and Elevation
SA-78	EB East Abutment Sections and Details
SA-79	WB Pier 1 Plan and Elevation
SA-80	WB Pier 1 Sections and Details
SA-81	WB Pier 2 Plan and Elevation
SA-82	WB Pier 2 Sections and Details
SA-83	EB Pier 1 Plan and Elevation
SA-84	EB Pier 1 Sections and Details
SA-85	EB Pier 2 Plan and Elevation
SA-86	EB Pier 2 Sections and Details
SA-87	HP Pile Details
SA-88	Bar Splicer Assembly Details
SA-89	Concrete Parapet Slipforming Option
SA-90	Boring Logs (Sheet 1 of 9)
SA-91	Boring Logs (Sheet 2 of 9)
SA-92	Boring Logs (Sheet 3 of 9)
SA-93	Boring Logs (Sheet 4 of 9)
SA-94	Boring Logs (Sheet 5 of 9)
SA-95	Boring Logs (Sheet 6 of 9)
SA-96	Boring Logs (Sheet 7 of 9)
SA-97	Boring Logs (Sheet 8 of 9)
SA-98	Boring Logs (Sheet 9 of 9)

TOTAL BILL OF MATERIAL

ITEM	UNIT	S.N. 099-8312		S.N. 099-8313		TOTAL
		SUPER	SUB	SUPER	SUB	
Stone Riprap, Class A5	Sq Yd	-	1,673	-	1,776	3,449
Filter Fabric	Sq Yd	-	1,535	-	1,629	3,164
Removal Of Existing Structures No. 1	Each	1	-	-	-	1
Removal Of Existing Structures No. 2	Each	-	-	1	-	1
Structure Excavation	Cu Yd	-	1,960	-	2,052	4,012
Rock Excavation For Structures	Cu Yd	-	910	-	965	1,875
Floor Drains	Each	34	-	34	-	68
Concrete Structures	Cu Yd	325.1	-	-	330.9	656.0
Concrete Superstructure	Cu Yd	756.1	-	818.2	-	1,574.3
Concrete Encasement	Cu Yd	-	11.8	-	13.2	25.0
Protective Coat	Sq Yd	2,837	-	3,085	-	5,922
Furnishing And Erecting Precast Prestressed Concrete Beams, IL54N	Foot	2,482	-	2,793	-	5,275
Reinforcement Bars	Pound	-	20,570	-	22,840	43,410
Reinforcement Bars, Epoxy Coated	Pound	300,940	58,650	338,180	63,660	761,430
Bar Splicers	Each	1,342	424	1,346	424	3,536
Furnishing Steel Piles HP14x89	Foot	-	336	-	328	664
Driving Piles	Foot	-	336	-	328	664
Test Pile Steel HP14x89	Each	-	2	-	2	4
Pile Shoes	Each	-	16	-	18	34
Drilling And Setting Piles (In Rock)	Cu Ft	-	154	-	172	326
Name Plates	Each	1	-	1	-	2
Permanent Casing	Foot	-	118	-	134	252
Drilled Shaft In Soil	Cu Yd	-	68.8	-	74.5	143.3
Drilled Shaft In Rock	Cu Yd	-	91.3	-	105.5	196.8
Preformed Joint Strip Seal	Foot	123	-	133	-	256
Elastomeric Bearing Assembly, Type I	Each	16	-	18	-	34
Anchor Bolts, 1 1/4"	Each	32	-	36	-	68
Preformed Joint Seal 3 1/2"	Foot	-	-	376	-	376
Temporary Soil Retention System	Sq Ft	-	1,009	-	1,009	2,018
Granular Backfill For Structures	Cu Yd	-	254	-	273	527
Concrete Sealer	Sq Ft	-	5,770	-	5,813	11,583
Geocomposite Wall Drain	Sq Yd	-	140	-	150	290
Pipe Underdrains For Structures 4"	Foot	-	150	-	162	312
Crosshole Sonic Logging Access Ducts	Foot	-	313	-	354	667
Crosshole Sonic Logging Testing	Each	-	4	-	4	8
Bridge Deck Grooving (Longitudinal)	Sq Yd	1,492	-	1,989	-	3,481
Concrete Wearing Surface, 5"	Sq Yd	440	-	480	-	920
Precast Bridge Approach Slab	Sq Ft	3,744	-	4,104	-	7,848
Drainage Scuppers, DS-11	Each	-	-	2	-	2
Diamond Grinding (Bridge Section)	Sq Yd	2,322	-	2,570	-	4,892



*** PROFILE GRADE

(Along EB I-80 and WB I-80 PGLs)

(The profile grade shows the final elevations after grinding)

*** The stations provided in the Profile Grade sketch are measured along the CL I-80; however, the elevations provided are the elevations measured along the WB PGL and EB PGL (which are identical).



USER NAME =	DESIGNED - JJS, PG	REVISED -
	CHECKED - MI, JJS	REVISED -
PLOT SCALE =	DRAWN - PG	REVISED -
PLOT DATE =	CHECKED - MI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND TOTAL BILL OF MATERIAL
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	535
CONTRACT NO. 62R28				
ILLINOIS		FED. AID PROJECT		

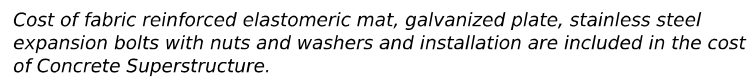
1. *Reinforcement bars designated (E) shall be epoxy coated.*
2. *Slip forming of the median parapet is not allowed. Slip forming of the Outside traffic barriers is allowed.*
3. *A film forming Concrete Sealer shall be applied to all exposed surfaces of the piers.*
4. *Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.*
5. *The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.*
6. *The existing bearing devices coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.*

Event / Limit	Design Scour Elevations (ft.)				Item 113
State	W. Abut.	Pier 1	Pier 2	E. Abut.	
Q100	558.50	538.42	537.97	557.12	8
Q500	558.50	538.25	537.80	557.12	
Design	558.50	538.42	537.97	557.12	
Check	558.50	538.25	537.80	557.12	

Drainage Area = 340.0 Square miles					Exist. Overtopping Elev. = 565.91 at Sta. 320+74 Prop. Overtopping Elev. = 566.69 at Sta. 321+48				
Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Ten-Year	10	8,682	1,436	1,516	552.45	0.32	0.20	552.77	552.65
Design	50	12,250	1,720	1,837	553.72	0.42	0.25	554.14	553.97
Base	100	13,997	1,847	1,979	554.27	0.48	0.30	554.75	554.57
Max. Calc.	500	18,000	2,114	2,279	555.41	0.62	0.40	556.03	555.81
All-Time H.W.E. & Date:					10 Year Velocity Thru Exist. Structure = 5.59 ft/s				
October 1954, 554 ft.					10 Year Velocity Thru Prop. Structure = 5.44 ft/s				

NAME PLATE
(EB I-80 over DuPage River)
See Std. 515001

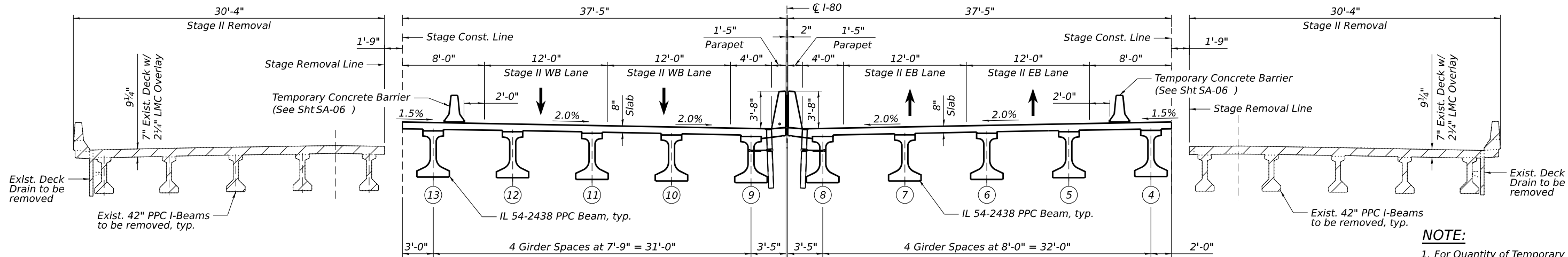
NAME PLATE
(WB I-80 over DuPage River)
See Std. 515001



* Included in the cost of Pipe Underdrains for Structures.

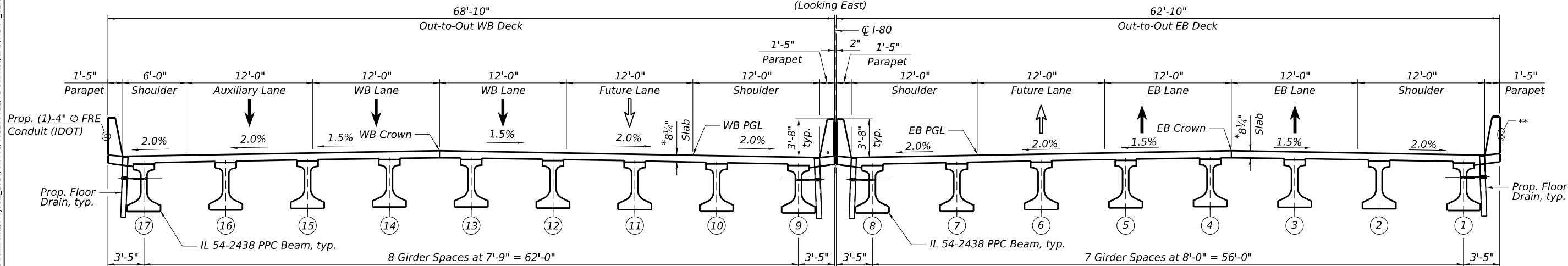
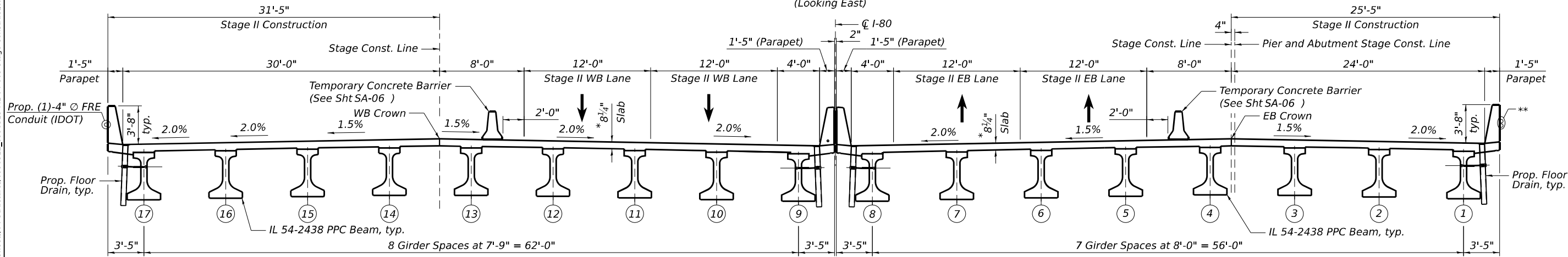


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NOTE:

1. For Quantity of Temporary Concrete Barrier, See Roadway Plans.



STAGE II REMOVAL

1. Install temporary concrete barrier as shown to locate Stage II traffic on the newly constructed Stage I portion of the bridges (See Roadway Plans).
2. Remove existing concrete bridge decks, approaches, parapets, appurtenances, PPC I-beams, bearings and substructure elements within the limits of Stage II Removal.

STAGE II CONSTRUCTION

1. Drive HP piles for remaining portions of abutments, and construct drilled shafts with permanent steel casing for remaining portions of piers, as shown in the Substructure Layout Plan.
2. Construct remaining portions of semi-integral abutment caps, sloped walls, pier webwalls, pier columns and pier caps.
3. Install remaining bearings at abutments and erect Girders 1 thru 3, Girders 14 thru 17 and associated permanent bracing.

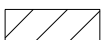
STAGE II CONSTRUCTION - CONTINUED

4. Install deck forms and reinforcement.
5. Construct reinforced concrete decks, concrete diaphragms, parapets, scuppers (at north side of WB bridge only) and deck drains.
6. Construct remaining portions of the precast bridge approach slabs.
7. Perform diamond grinding and longitudinal bridge deck grooving for bridge decks and approaches.
8. Apply protective coat for bridge decks, approaches and tops and inside faces of parapets.
9. Place final lane markings (see Roadway Plans).

* Prior to grinding

** Prop. (1)-4" Ø FRE Conduit (IDOT)
Prop. (1)-4" Ø FRE Conduit (Third Party)

LEGEND

 Removal of Existing Structures 1 or 2



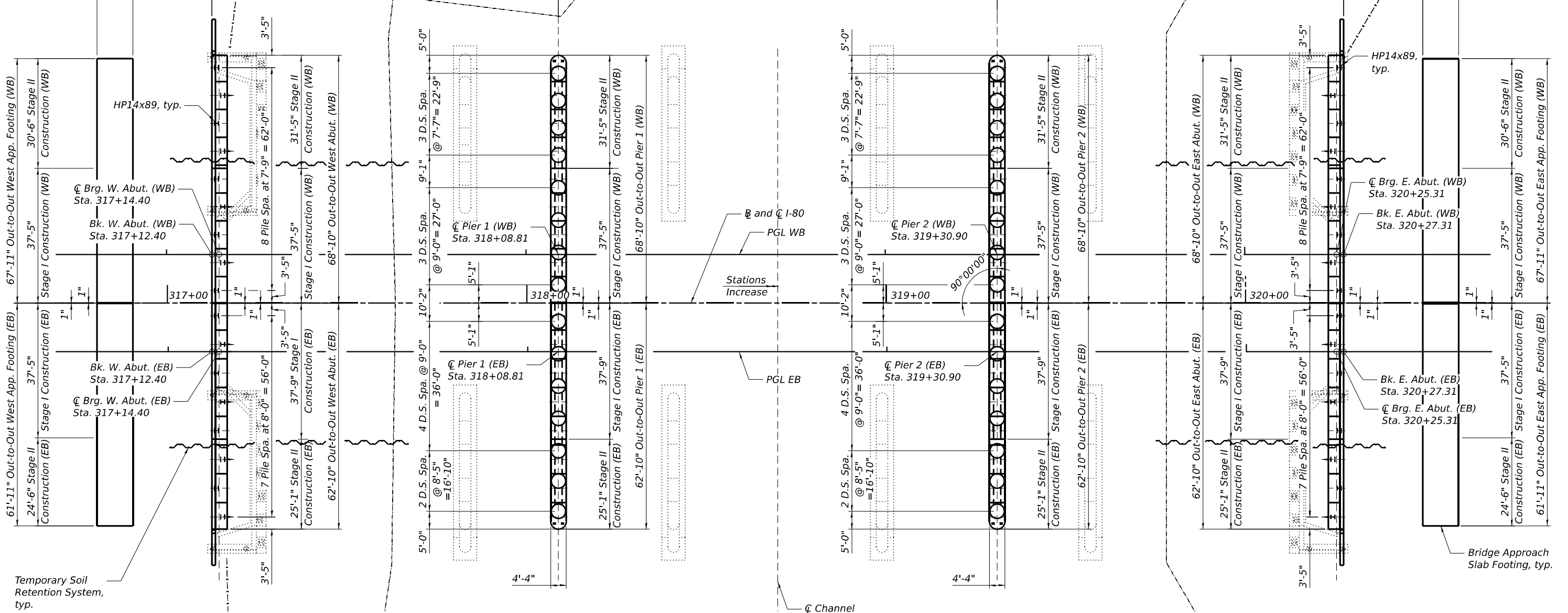
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PLOT SCALE	=	DRAWN	-	JMI	REVISED	-
PLOT DATE	=	CHECKED	-	MI, KJD	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION (SHEET 2 OF 2)
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

SHEET SA-05 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	538
CONTRACT NO. 62R28				
ILLINOIS		FED. AID PROJECT		



SUBSTRUCTURE LAYOUT



NOTES:

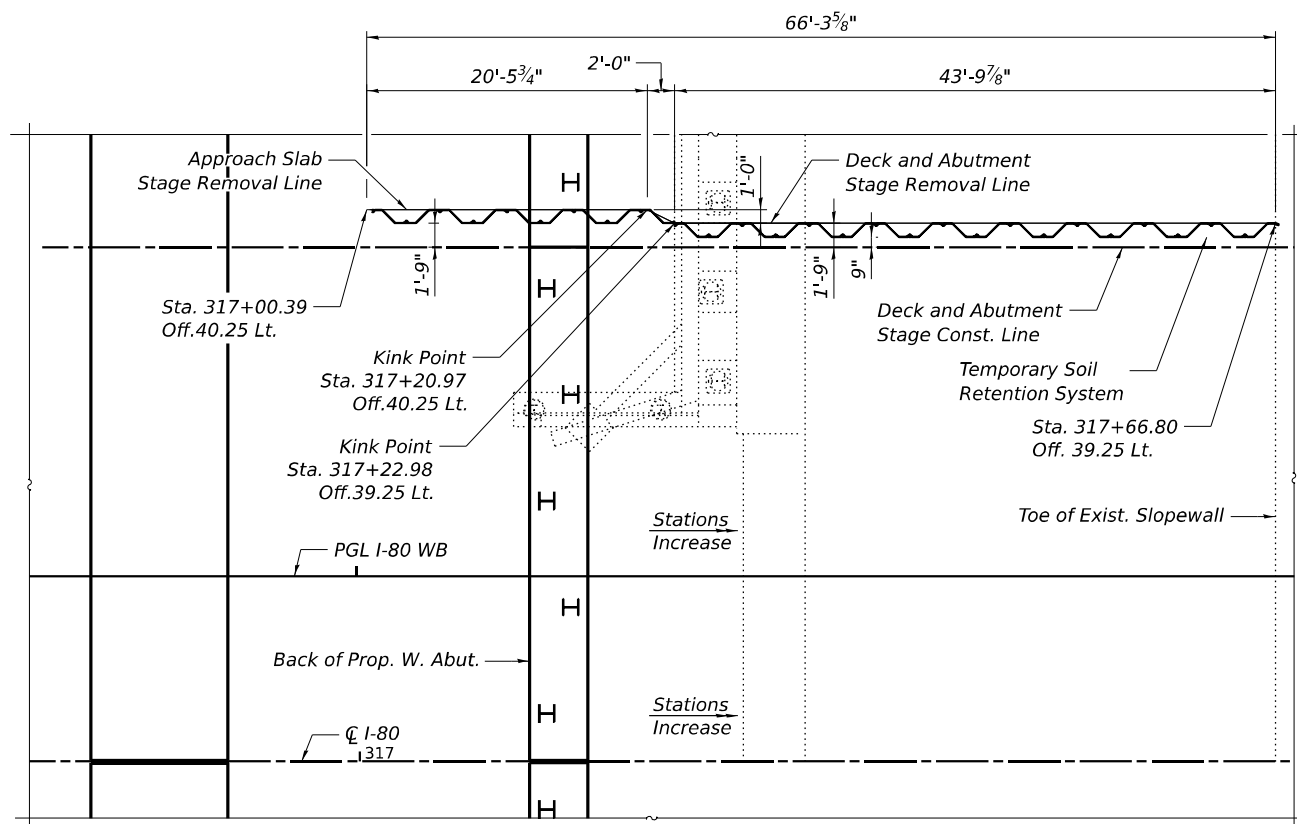
1. For Removal of Existing Structures, see Sheets SA-10 thru SA-17.
2. For existing approach slabs removal quantities, see Roadway plans.
3. For Temporary Soil Retention Systems, see Sheets SA-08 and SA-09.

LEGEND

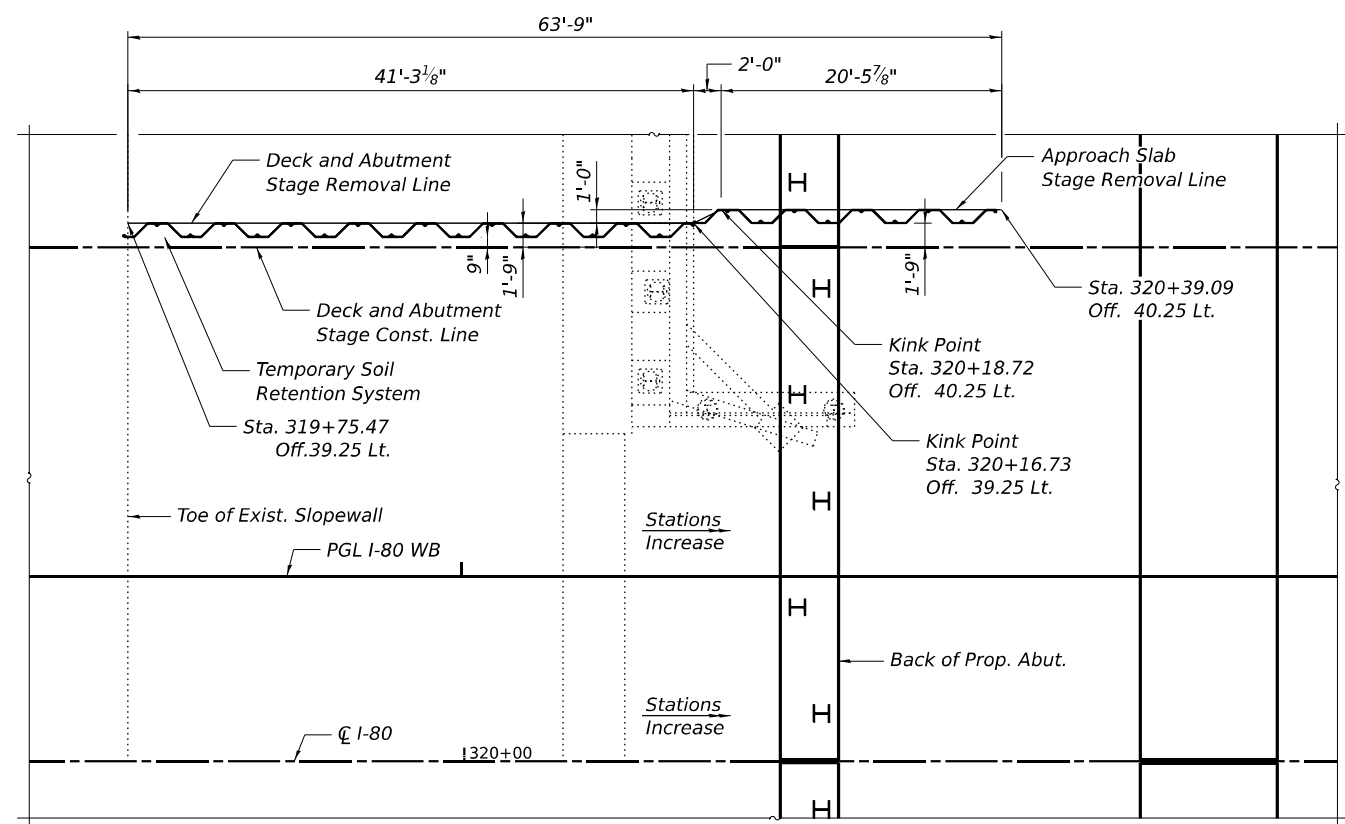
- | | |
|---|---------------------------------|
|  | Temporary Soil Retention System |
|  | Water Edge |
|  | Exist. Fence to be removed |
|  | HP14x89 |
|  | HP14x89 (Battered) |
|  | Drilled Shafts |

HBM ENGINEERING GROUP, LLC	USER NAME =	DESIGNED - JMI	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WB AND EB SUBSTRUCTURE LAYOUT STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - MI, KJD	REVISED -				I-80	FAI 80 21 STRUCTURE 7	WILL	1059	540
	PLOT DATE =	DRAWN - JMI, JJS	REVISED -		CONTRACT NO. 62R28						
		CHECKED - MI, KJD	REVISED -								
					SHEET SA-07 OF SA-98 SHEETS		ILLINOIS FED. AID PROJECT				

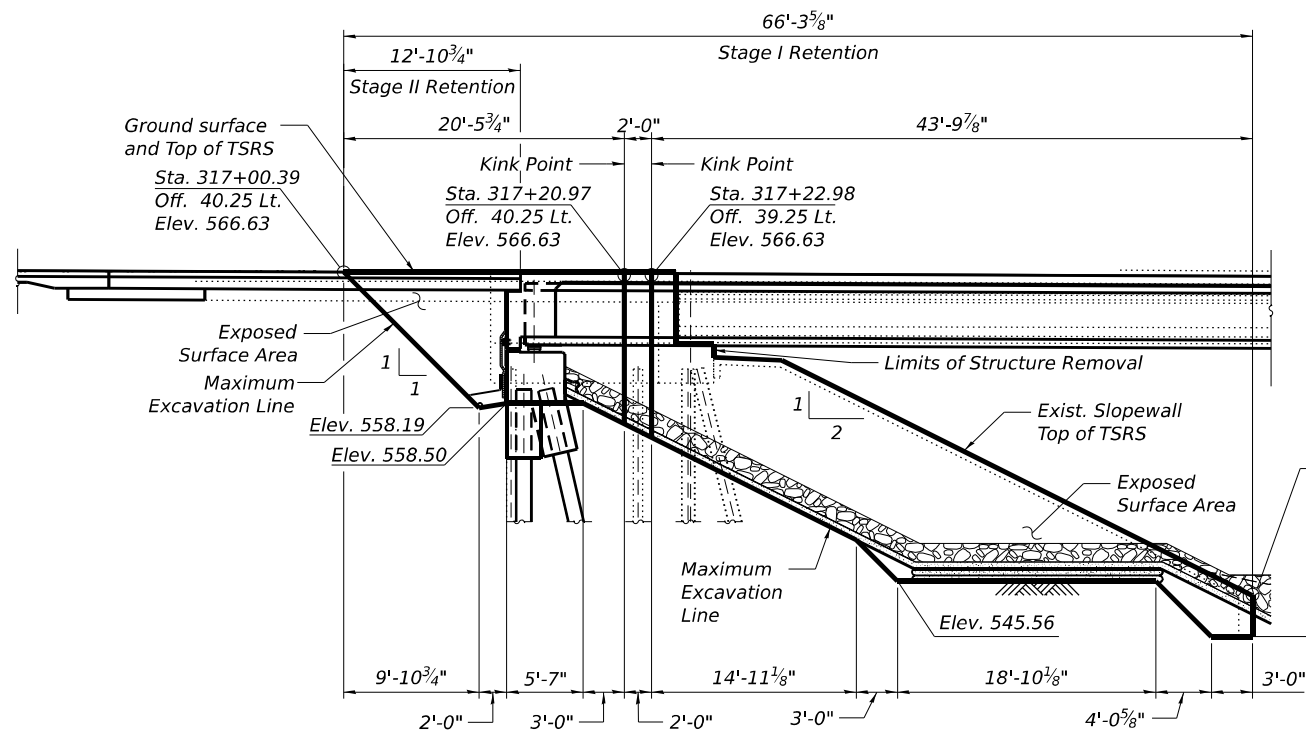
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10/9/2023 3:21:54 PM



PARTIAL PLAN AT WEST ABUT. TEMPORARY SOIL RETENTION SYSTEM

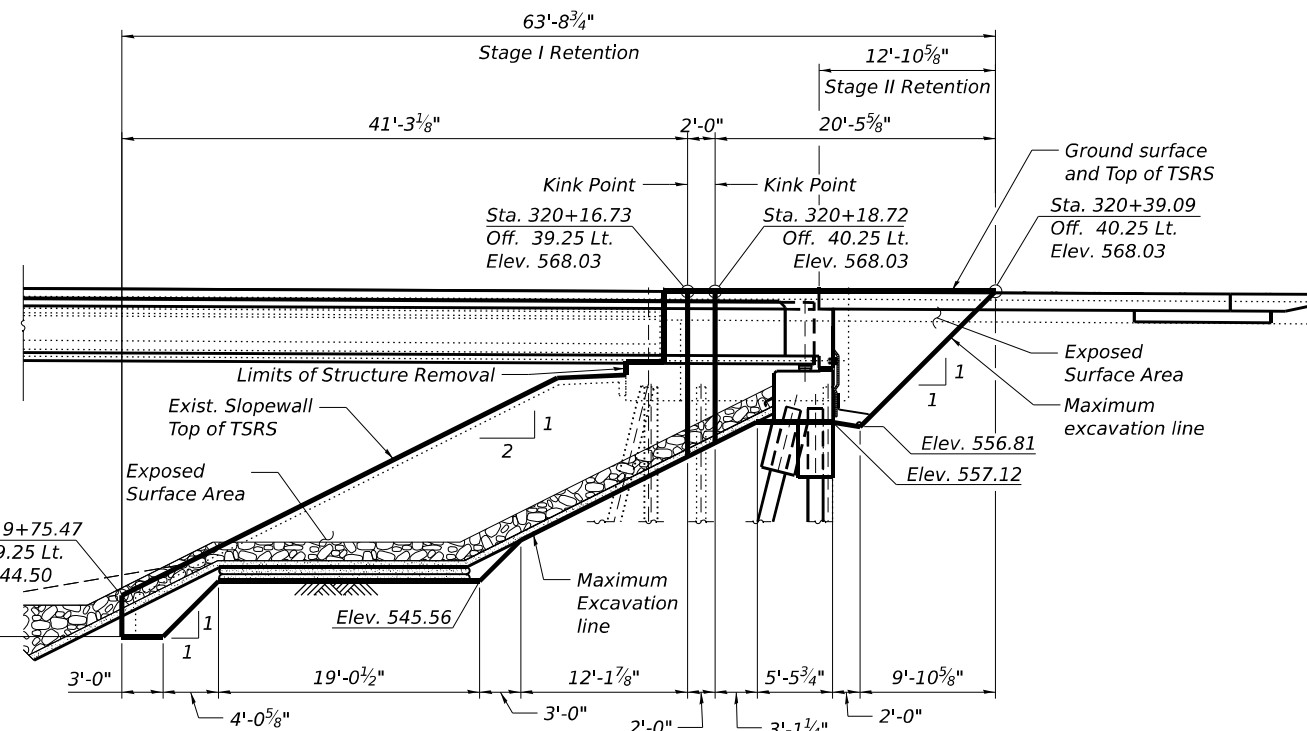


PARTIAL PLAN AT EAST ABUT. TEMPORARY SOIL RETENTION SYSTEM



WEST ABUT. TEMPORARY SOIL RETENTION SYSTEM ELEVATION

(Looking South)



EAST ABUT. TEMPORARY SOIL RETENTION SYSTEM ELEVATION

(Looking South)

NOTES:

1. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
2. The Contractor shall field verify locations of existing underground utilities. The Contractor shall take precautions to protect existing utilities during construction of the bridge. Any damage to the existing utilities shall be the responsibility of the Contractor. The existing utilities in conflict with the bridge construction shall be abandoned or relocated according to the directions given on the Roadway Plans.

LEGEND

Temporary Soil Retention System

S.N. 099-8313 (WB)
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu Yd	1376
Rock Excavation For Structures	Cu Yd	911
Temporary Soil Retention System	Sq Ft	1009

HBM
ENGINEERING GROUP, LLC

USER NAME =	DESIGNED - KJD	REVISED -
	CHECKED - MI, JJS	REVISED -
PLOT SCALE =	DRAWN - JMI, KJD	REVISED -
PLOT DATE =	CHECKED - MI, JJS	REVISED -

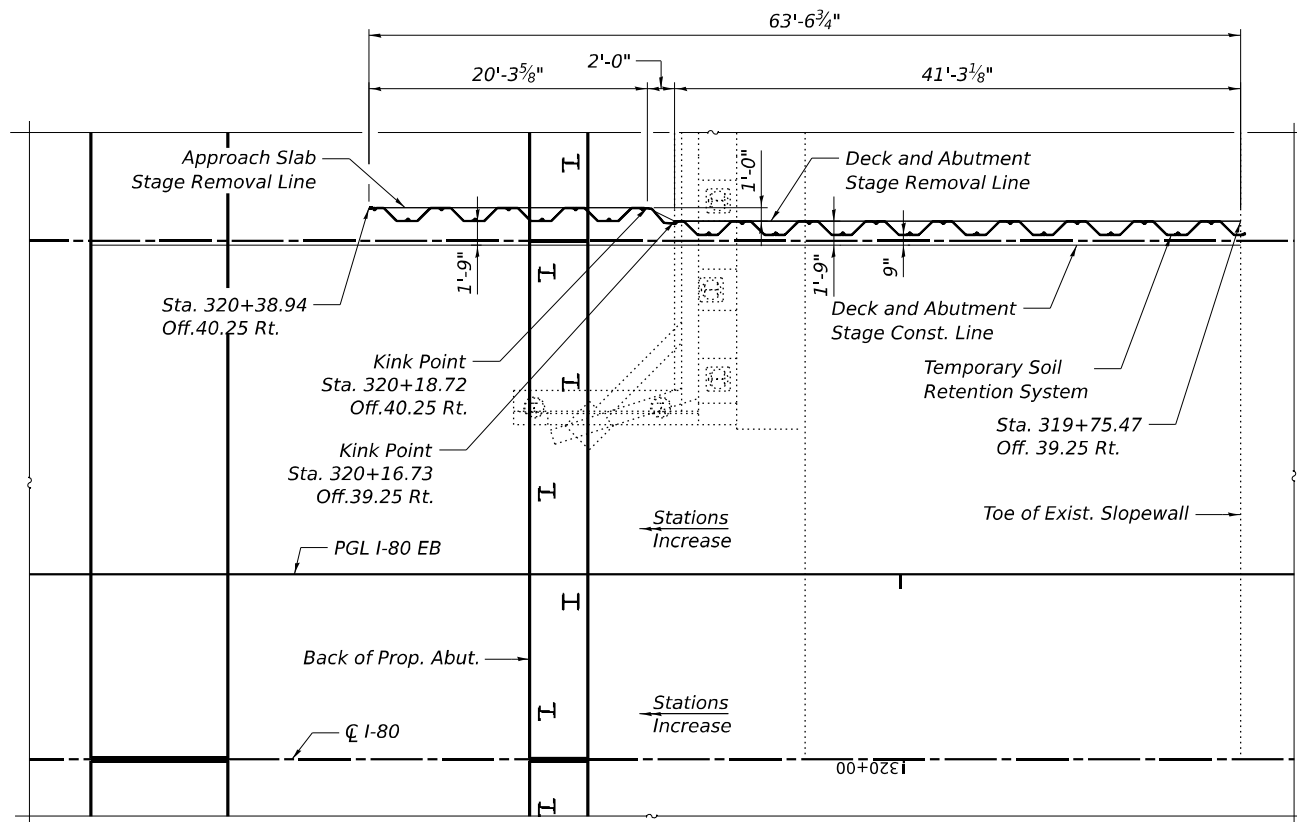
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB TEMPORARY SOIL RETENTION SYSTEM
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

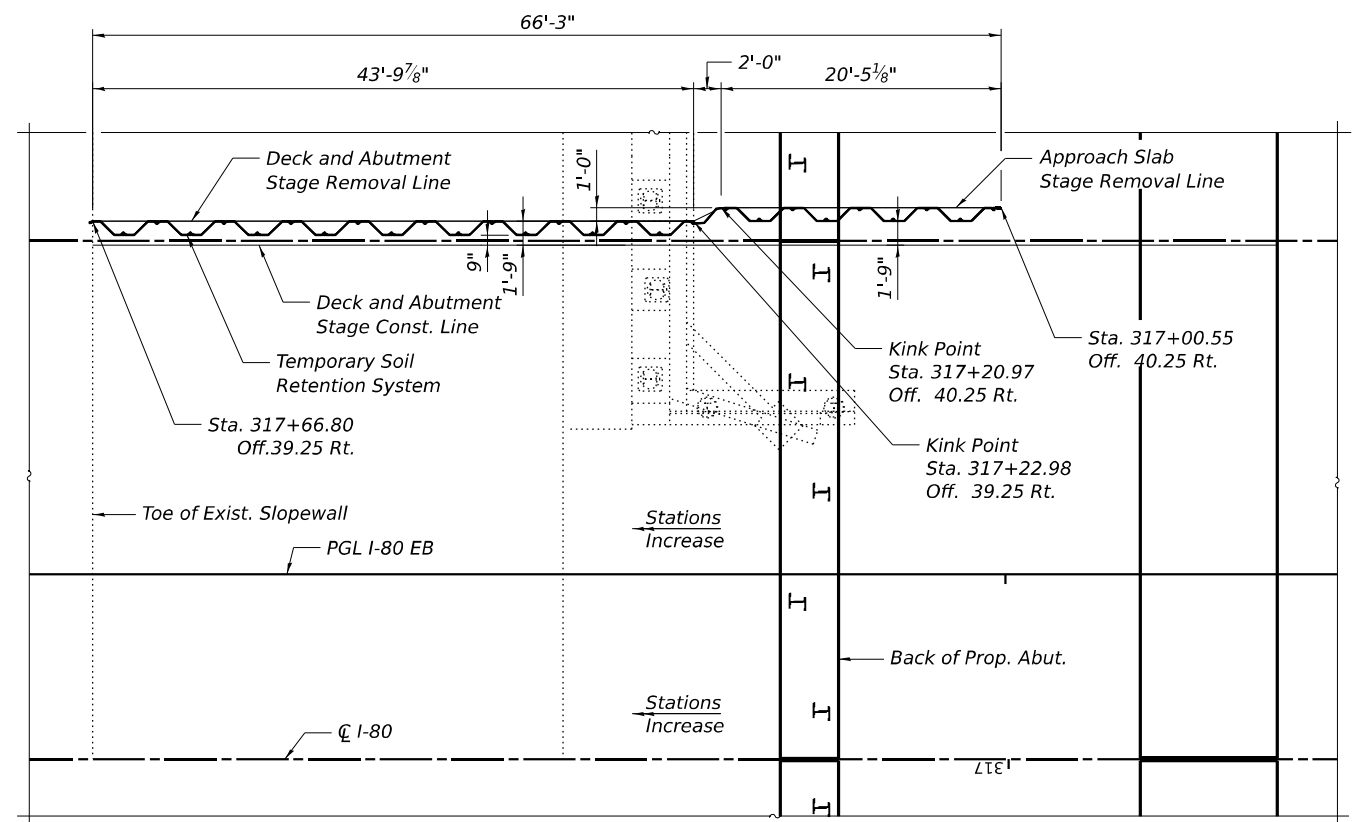
SHEET SA-08 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	541
CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				

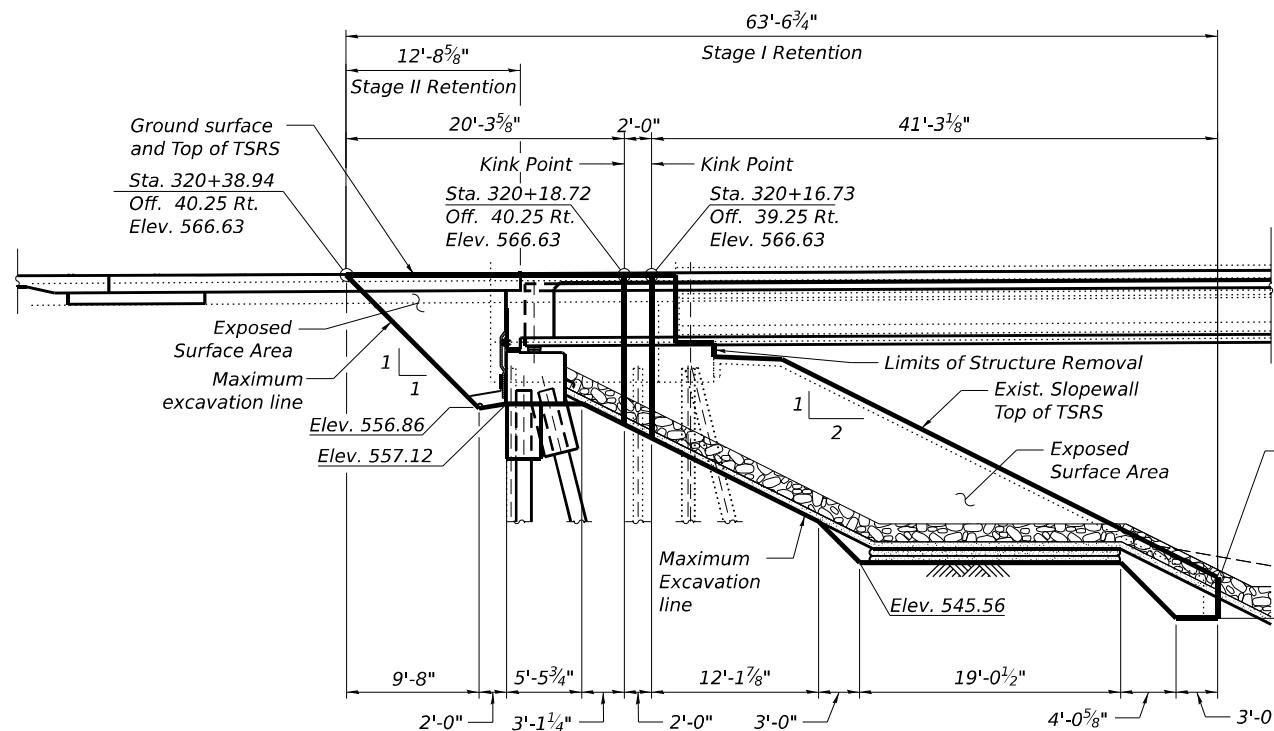
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10/9/2023 3:22:00 PM



PARTIAL PLAN AT EAST ABUT. TEMPORARY SOIL RETENTION SYSTEM

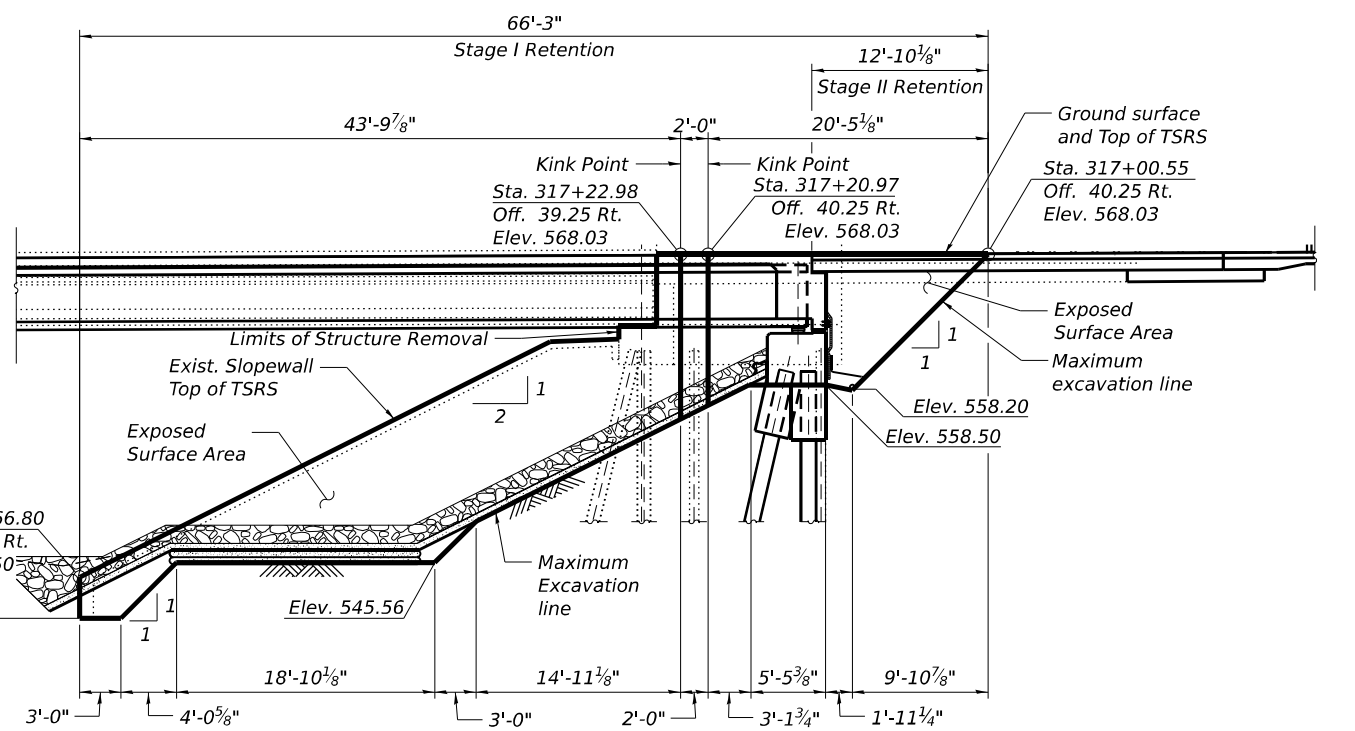


PARTIAL PLAN AT WEST ABUT. TEMPORARY SOIL RETENTION SYSTEM



EAST ABUT. TEMPORARY SOIL RETENTION SYSTEM ELEVATION

(Looking South)



WEST ABUT. TEMPORARY SOIL RETENTION SYSTEM ELEVATION

(Looking South)

NOTES:

1. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
2. The Contractor shall field verify locations of existing underground utilities. The Contractor shall take precautions to protect existing utilities during construction of the bridge. Any damage to the existing utilities shall be the responsibility of the Contractor. The existing utilities in conflict with the bridge construction shall be abandoned or relocated according to the directions given on the Roadway Plans.

LEGEND

Temporary Soil Retention System

S.N. 099-8312 (EB)
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu Yd	1294
Rock Excavation For Structures	Cu Yd	855
Temporary Soil Retention System	Sq Ft	1009

HBM
ENGINEERING GROUP, LLC

USER NAME =	DESIGNED - KJD	REVISED -
	CHECKED - MI, JJS	REVISED -
PLOT SCALE =	DRAWN - JMI, KJD	REVISED -
PLOT DATE =	CHECKED - MI, JJS	REVISED -

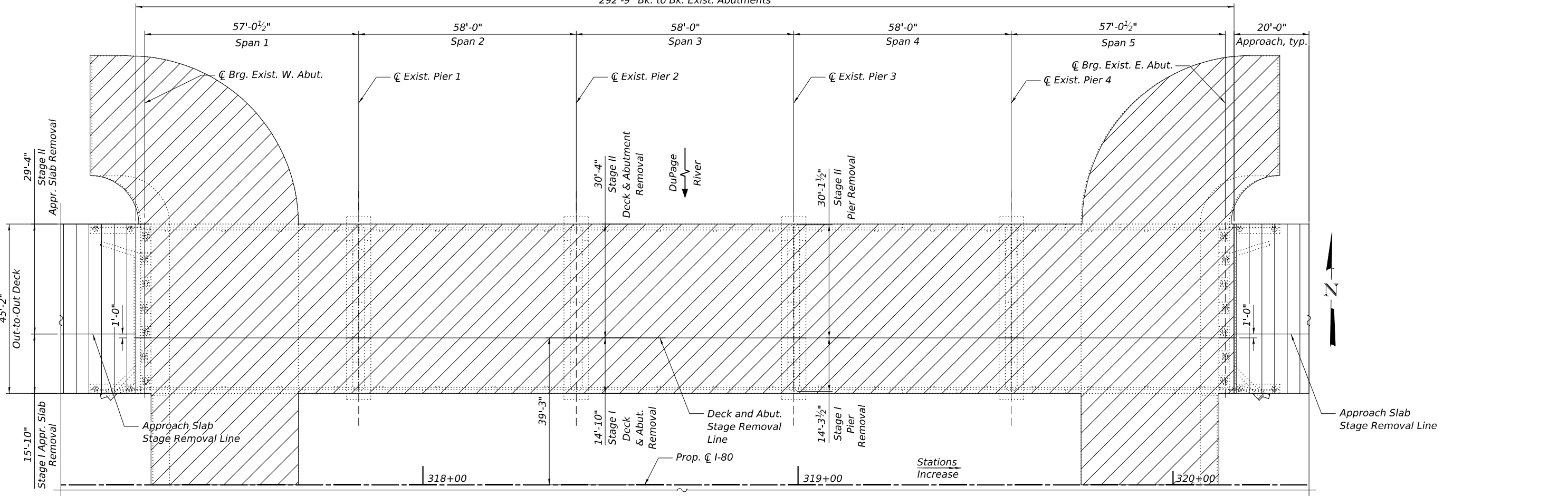
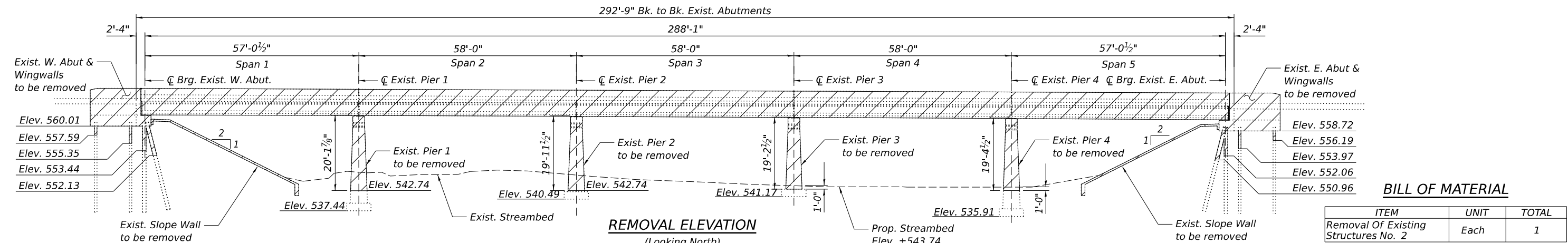
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB TEMPORARY SOIL RETENTION SYSTEM
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

SHEET SA-09 OF SA-98 SHEETS

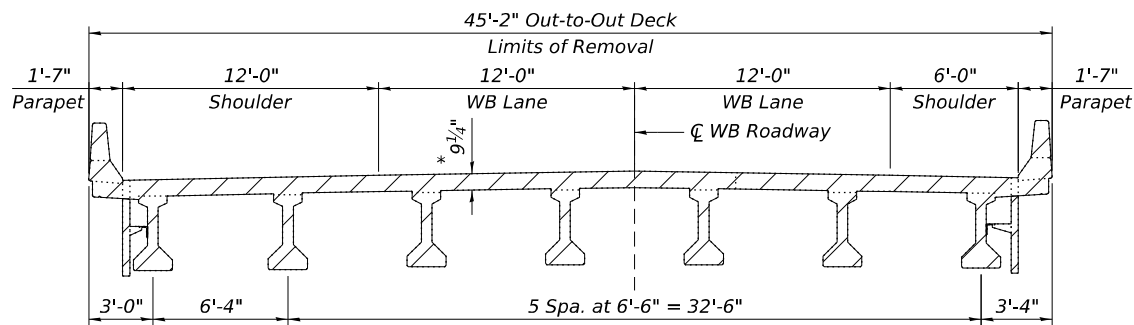
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I-80	FAI 80 21 STRUCTURE 7	WILL	1059	542
CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				

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10/9/2023 3:22:16 PM



NOTES:

1. For suggested stages of construction and sequencing requirements, see Roadway Plans and Special Provisions.
2. For substructure removal details, see Sheets SA-11 thru SA-13.
3. For Temporary Soil Retention System limits and details, see Sheet SA-08.
4. The Contractor shall take all necessary precautions to protect existing utilities and adjacent structures during removal/construction of the bridge.
5. Existing Piers shall be removed according to Art. 501.05 of the Standard Specifications and as shown in the Plans.
6. For Approach Slab Removal, See Roadway Plans.



* 7" Exist. Deck w/
2¼" Latex Modified
Concrete Overlay

LEGEND

- Removal of Existing Structures No. 2
- Approach Slab Removal See Roadway Plans



USER NAME	=	DESIGNED	-	KJD	REVISED	-
		CHECKED	-	MI, JJS	REVISED	-
PLOT SCALE	=	DRAWN	-	KJD	REVISED	-
PLOT DATE	=	CHECKED	-	MI, JJS	REVISED	-

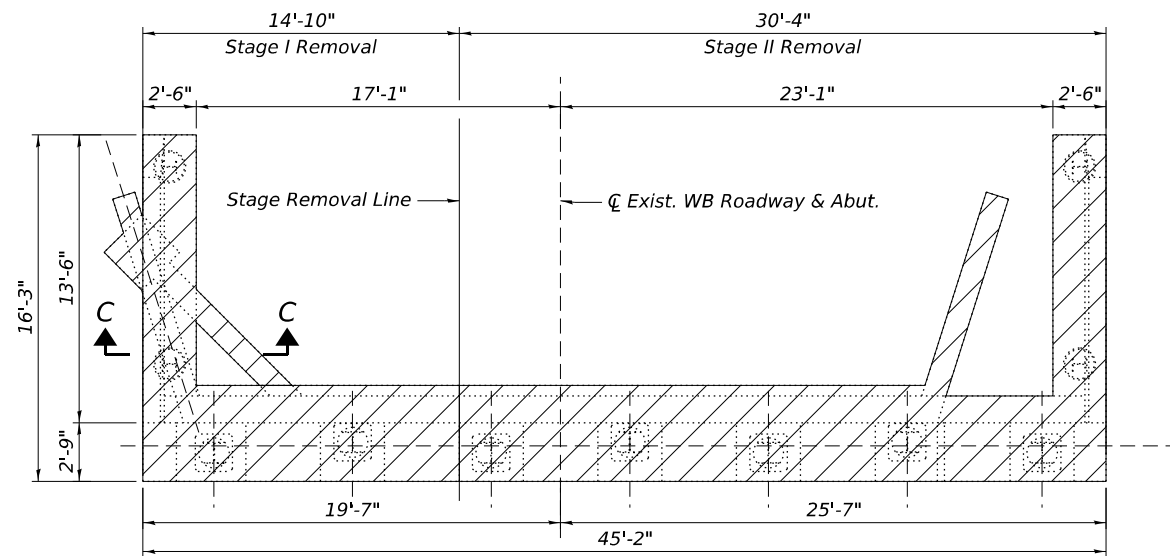
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB EXIST. STRUCT. REM. PLAN AND ELEVATION
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

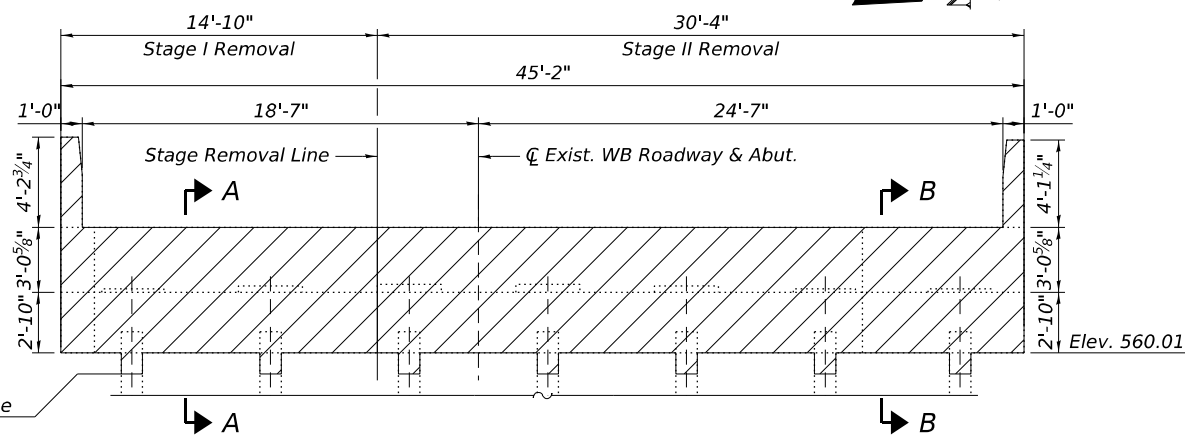
SHEET SA-10 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R28				
ILLINOIS		FED. AID PROJECT		

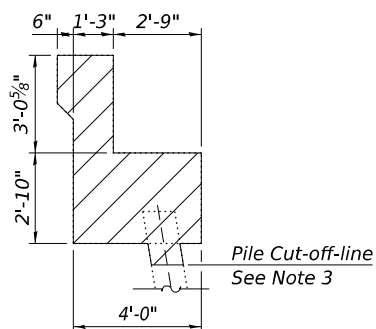
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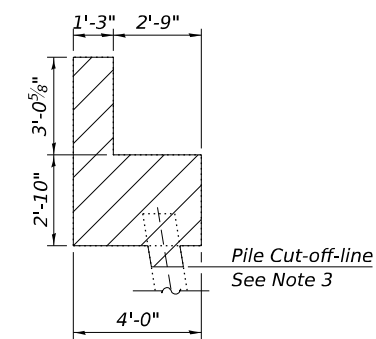
REMOVAL PLAN - WEST ABUTMENT



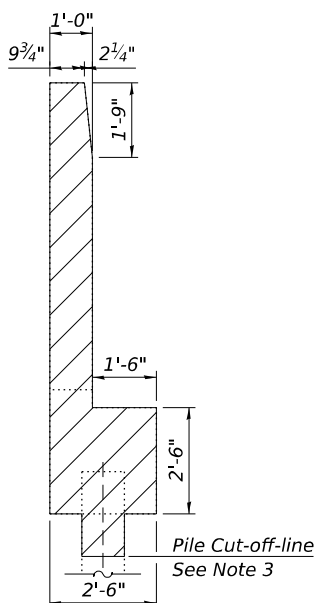
REMOVAL ELEVATION - WEST ABUTMENT



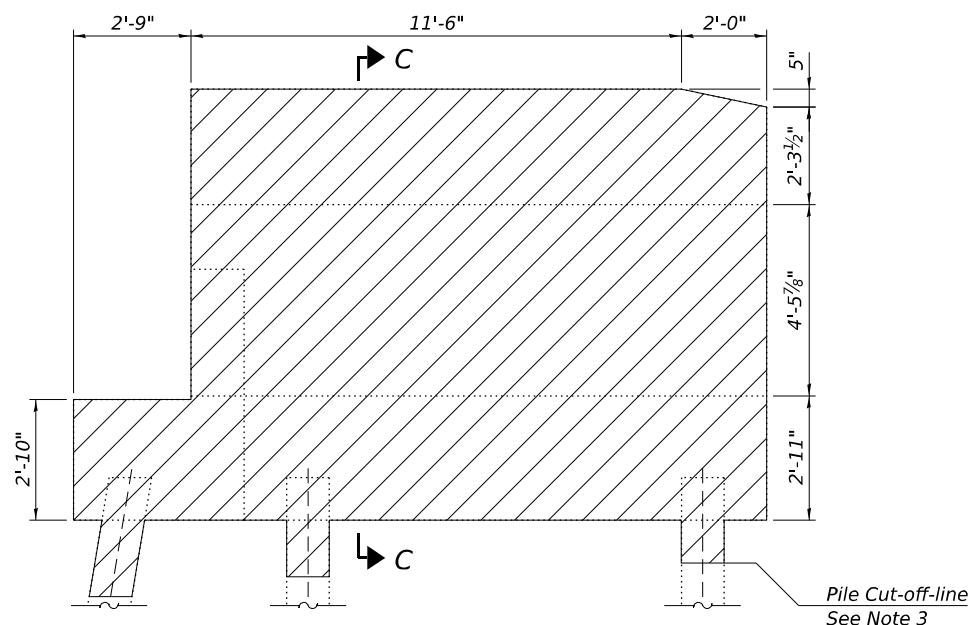
SECTION A-A



SECTION B-B

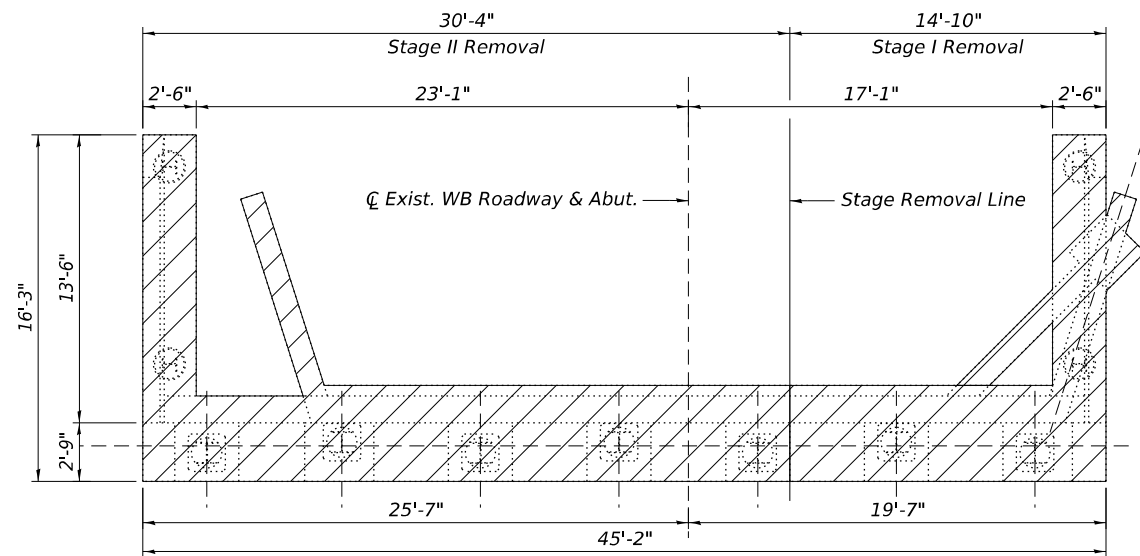


SECTION C-C

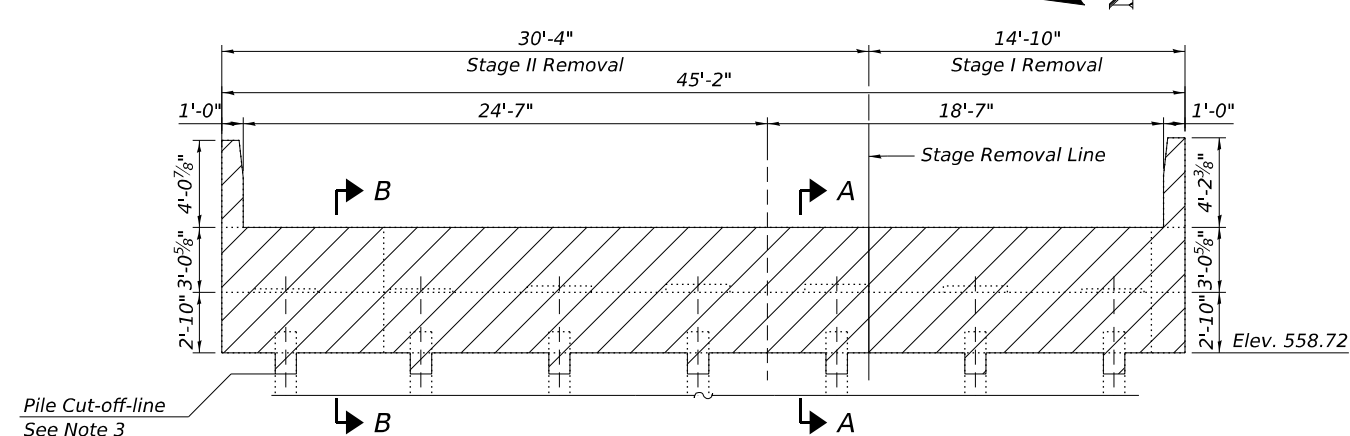


REMOVAL ELEVATION - TYPICAL WINGWALL

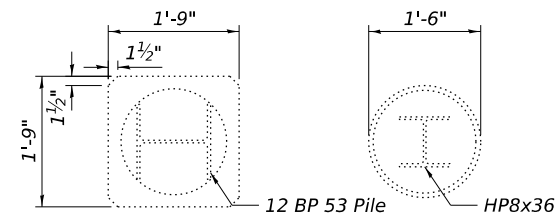
(NW Wingwall shown, typical at East & West abutments)



REMOVAL PLAN - EAST ABUTMENT



REMOVAL ELEVATION - EAST ABUTMENT



SECTION THRU PILE ENCASEMENT

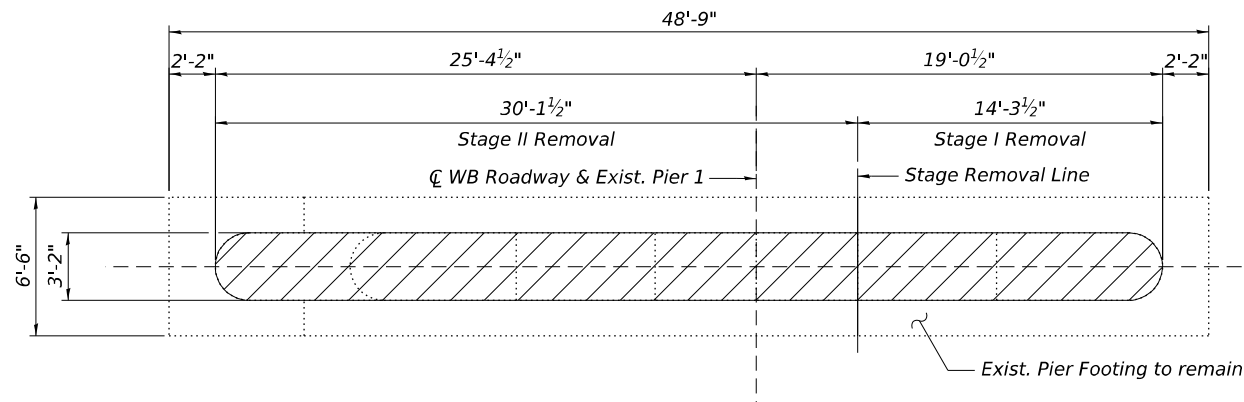
NOTES:

- For additional Notes, see Sheet SA-10.
- Existing Creosoted Timber Piles and Pile encasement concrete removals shall not be paid separately but shall be included in the cost of Removal of Existing Structures No. 1.
- For Pile Removal Elevations, see Sheet SA-10.

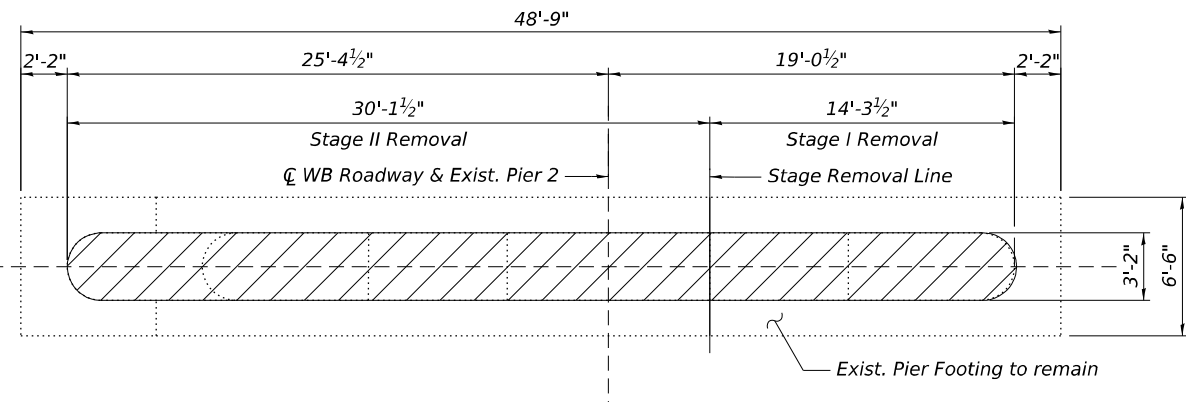
LEGEND:

 Removal of Existing Structures No. 2

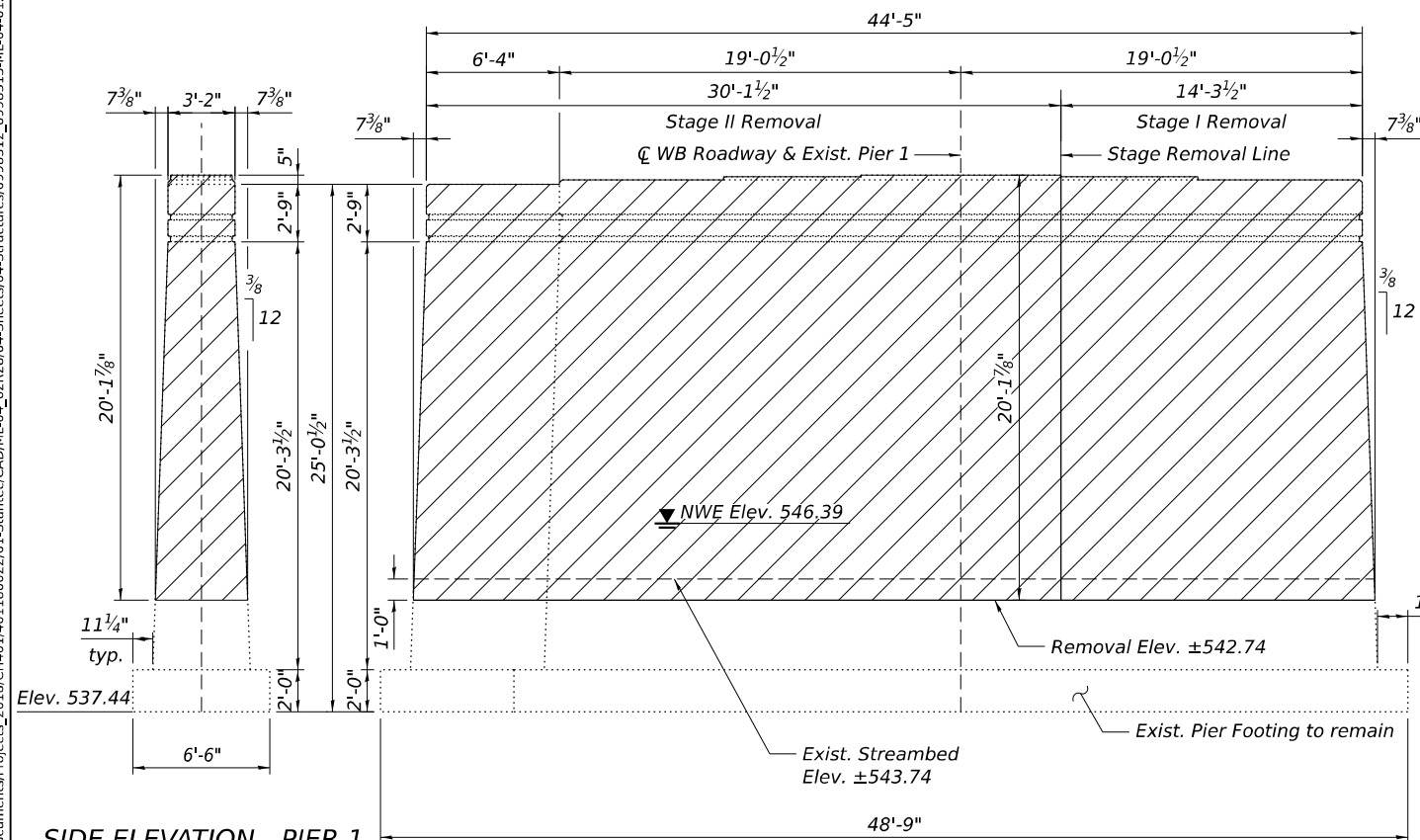
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PLAN - PIER 1 REMOVAL

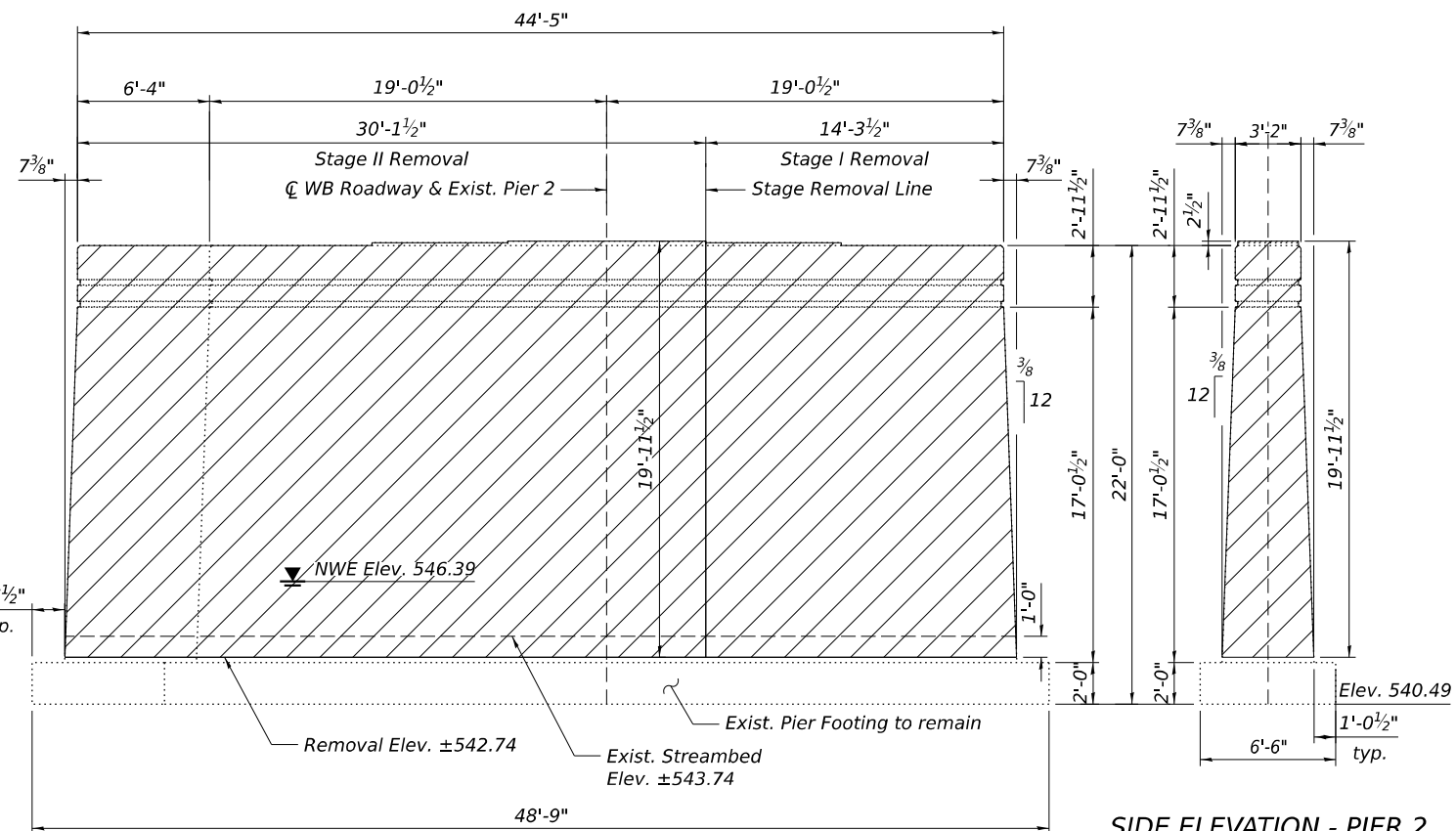


PLAN - PIER 2 REMOVAL



SIDE ELEVATION - PIER 1

ELEVATION - PIER 1 REMOVAL
(Looking East)



SIDE ELEVATION - PIER 2

ELEVATION - PIER 2 REMOVAL
(Looking East)

NOTE:

1. For additional notes, see Sheet SA-10.

LEGEND:

Removal of Existing Structures No. 2



USER NAME	=	DESIGNED	-	KJD	REVISED	-
PLOT SCALE	=	CHECKED	-	MI, JJS	REVISED	-
PLOT DATE	=	DRAWN	-	KJD	REVISED	-
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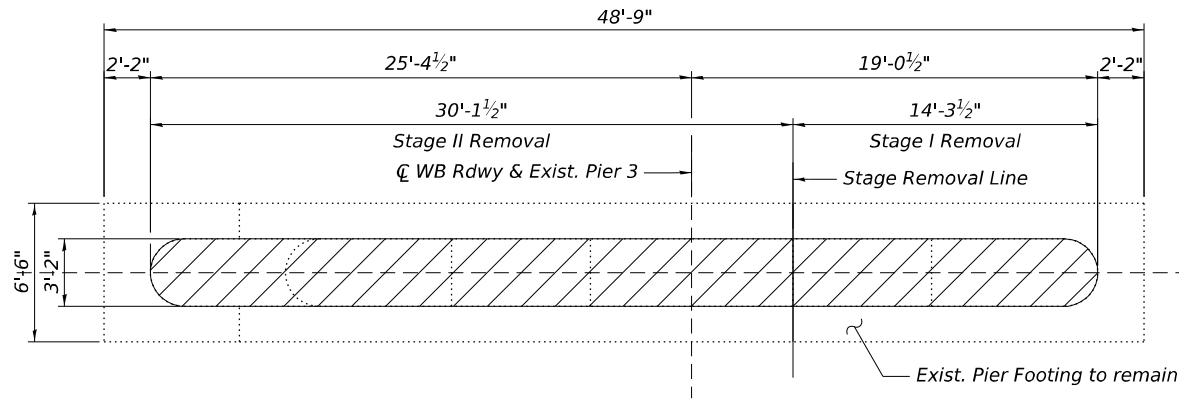
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB EXIST. STRUCT. REM. SECTIONS & DETAILS (SHT 2 OF 3)
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

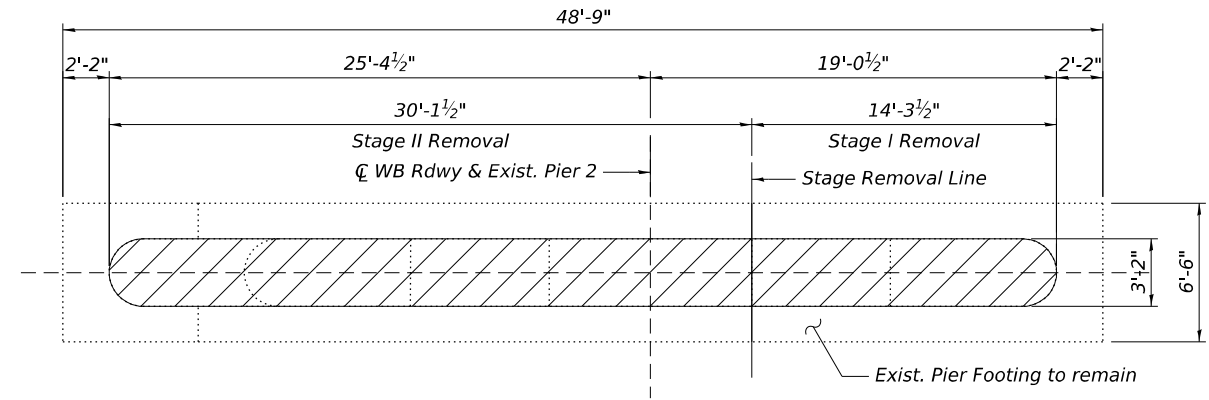
SHEET SA-12 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R28				
ILLINOIS		FED. AID PROJECT		

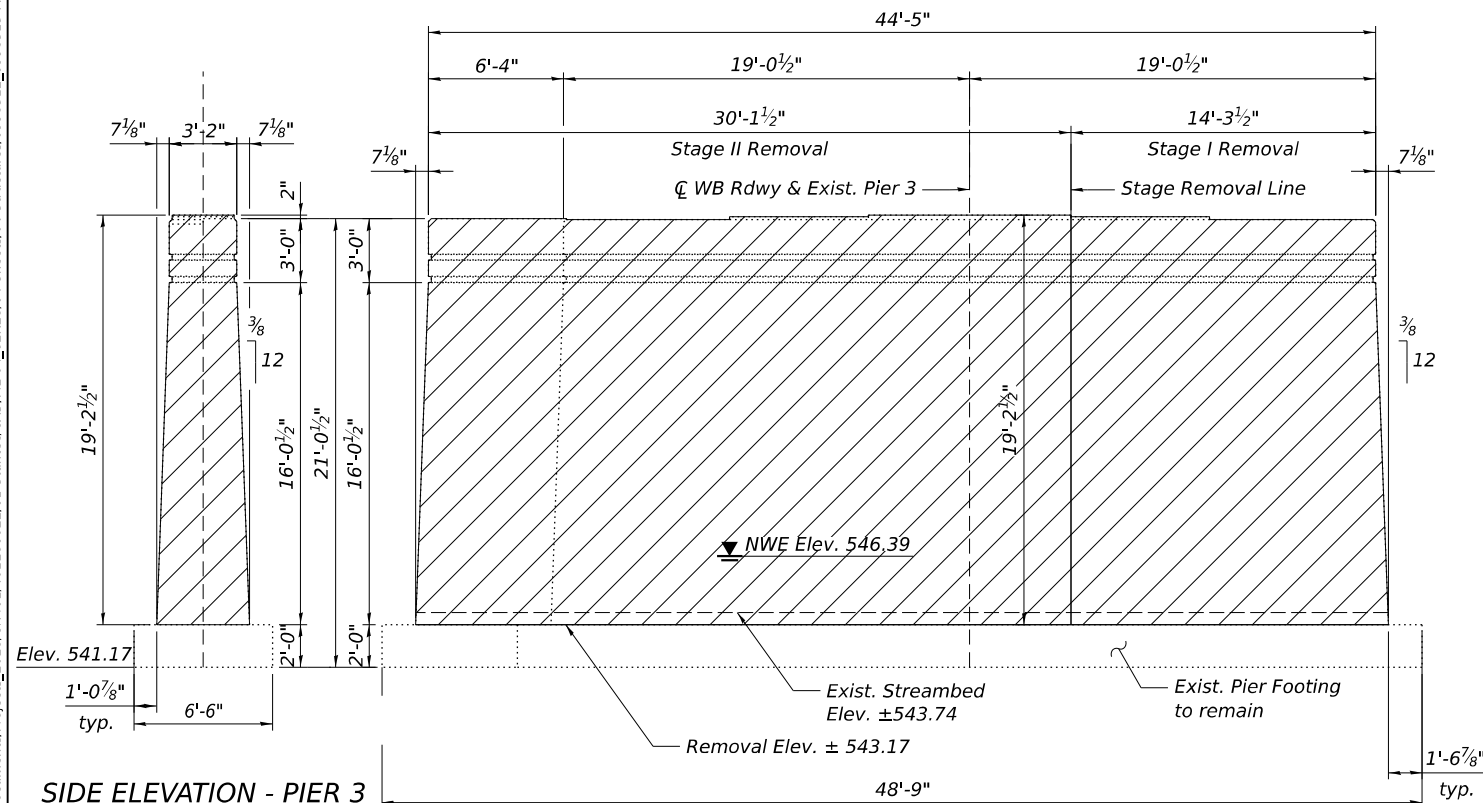
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PLAN - PIER 3 REMOVAL

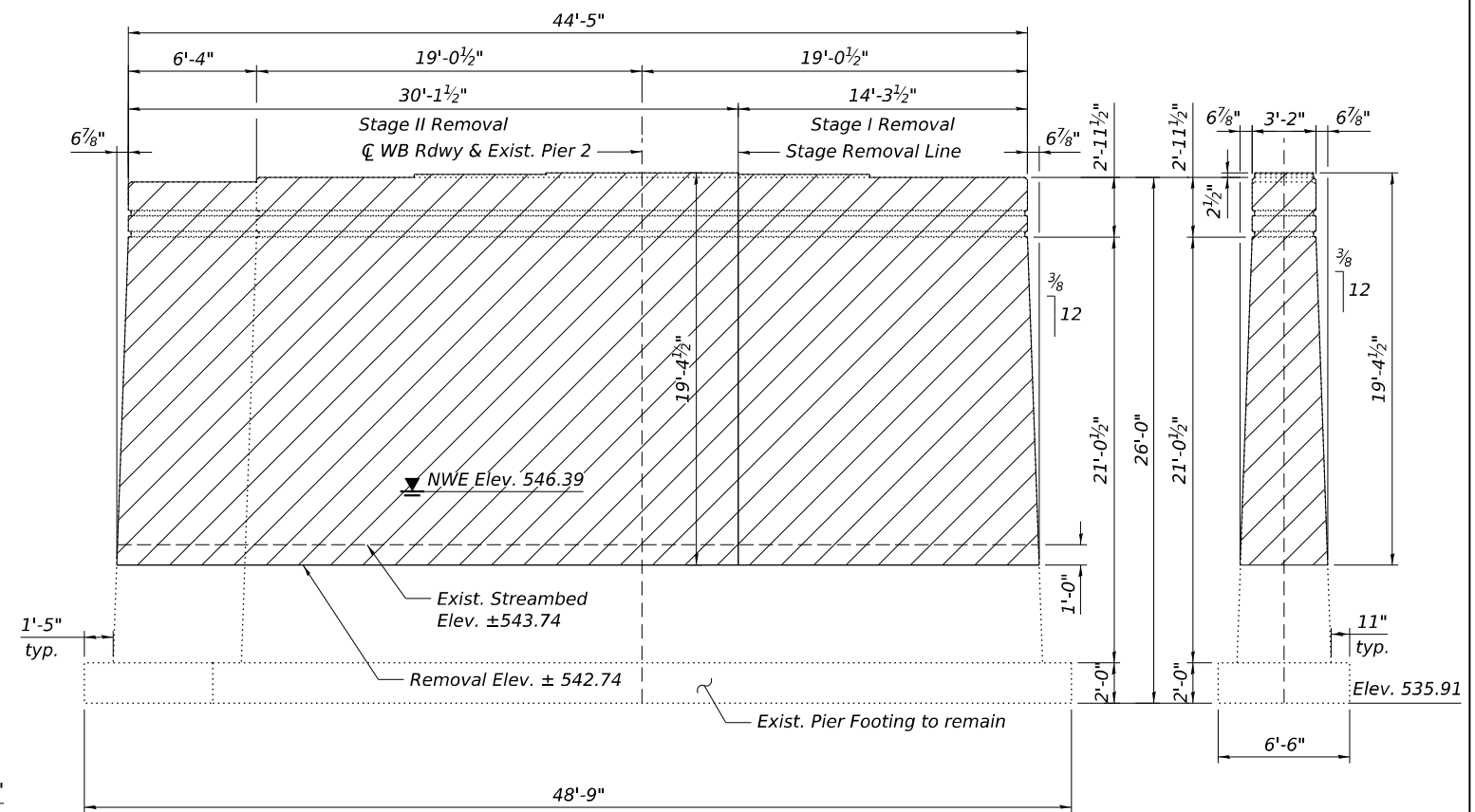


PLAN - PIER 4 REMOVAL



SIDE ELEVATION - PIER 3

ELEVATION - PIER 3 REMOVAL
(Looking East)



SIDE ELEVATION - PIER 4

ELEVATION - PIER 4 REMOVAL
(Looking East)

NOTE:

1. For additional notes, see Sheet SA-10.

LEGEND:

 Removal of Existing Structures No. 2



USER NAME	=	DESIGNED - KJD	REVISED -
		CHECKED - MI, JJS	REVISED -
PLOT SCALE	=	DRAWN - KJD	REVISED -
PLOT DATE	=	CHECKED - MI, JJS	REVISED -

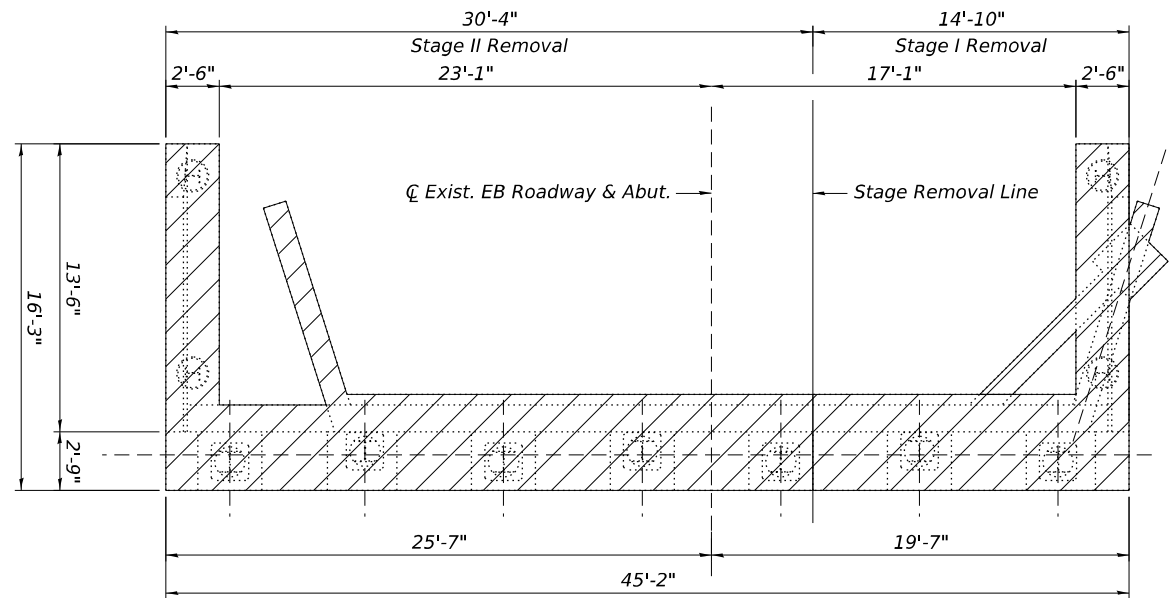
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB EXIST. STRUCT. REM. SECTIONS & DETAILS (SHT 3 OF 3)
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

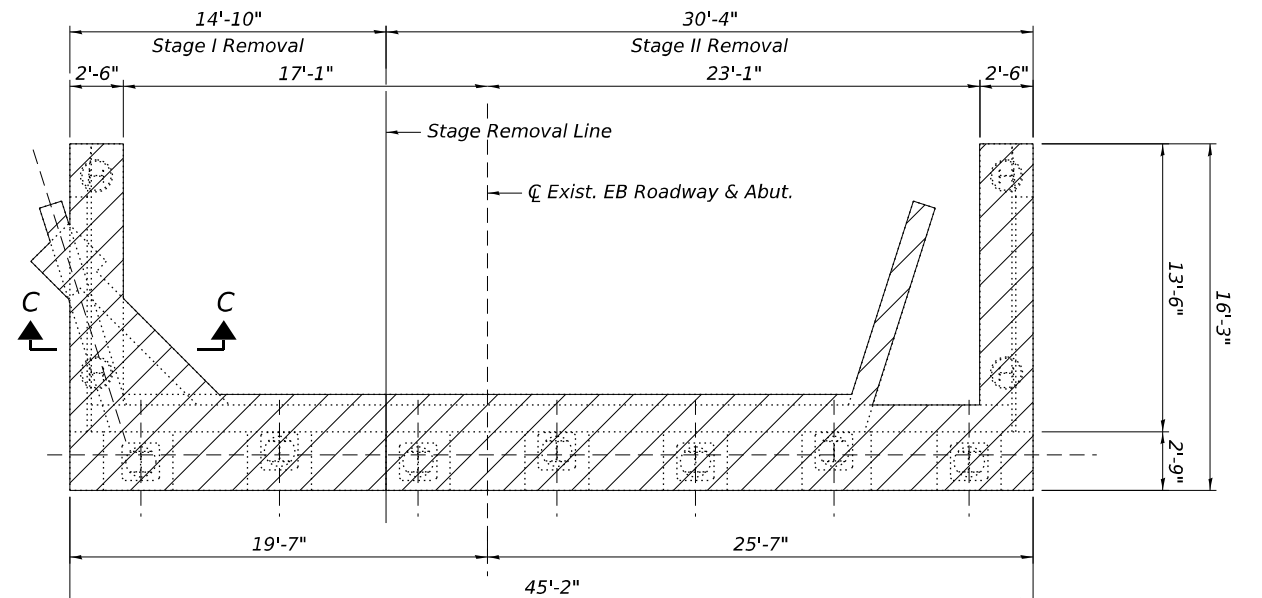
SHEET SA-13 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R28				
ILLINOIS		FED. AID PROJECT		

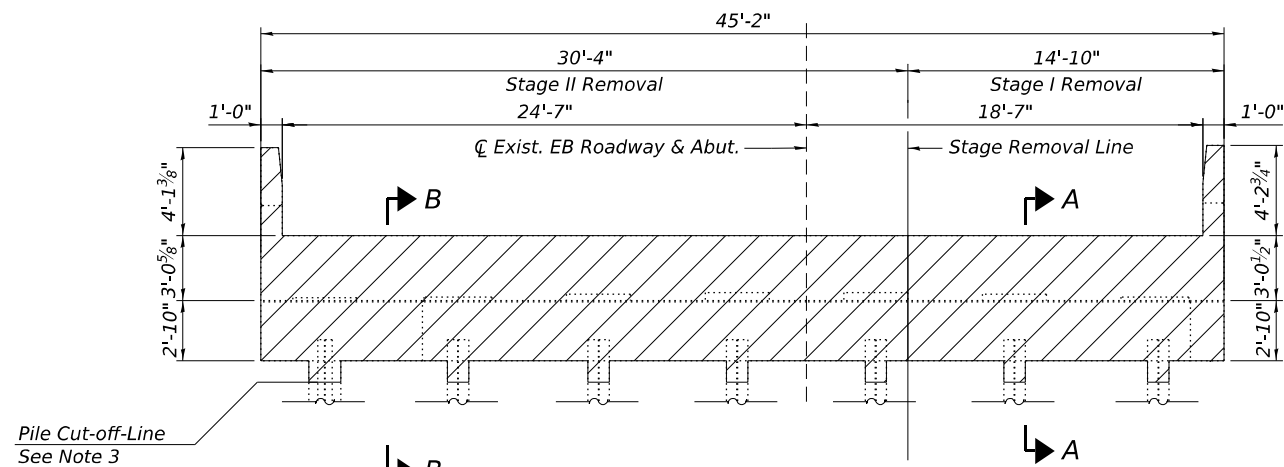
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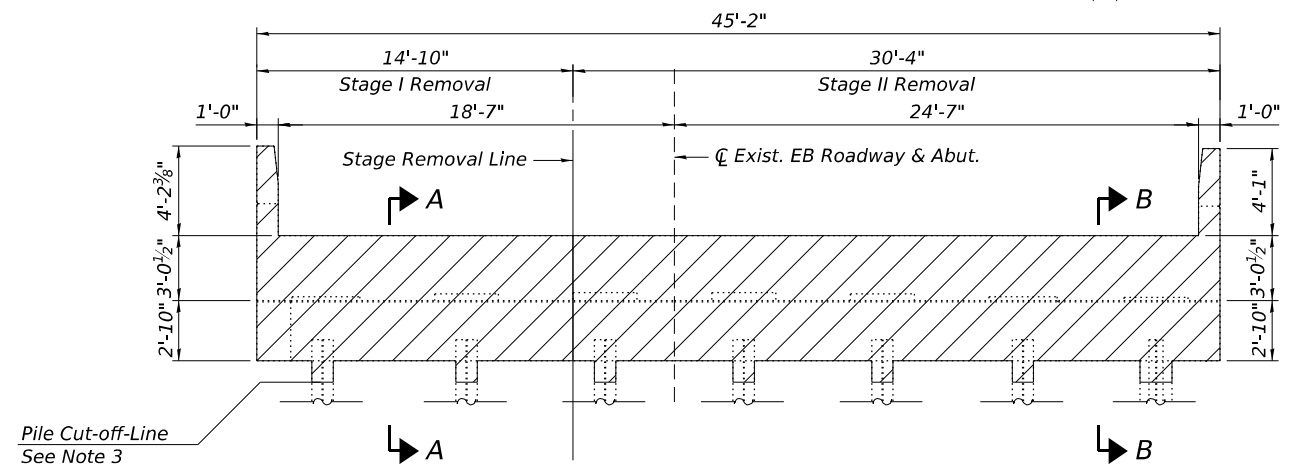
REMOVAL PLAN - WEST ABUTMENT



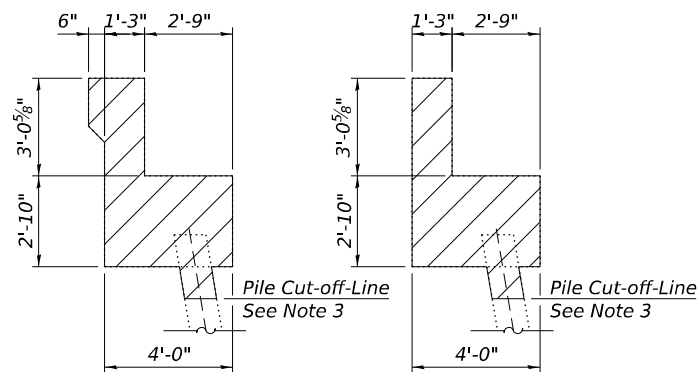
REMOVAL PLAN - EAST ABUTMENT



REMOVAL ELEVATION - WEST ABUTMENT

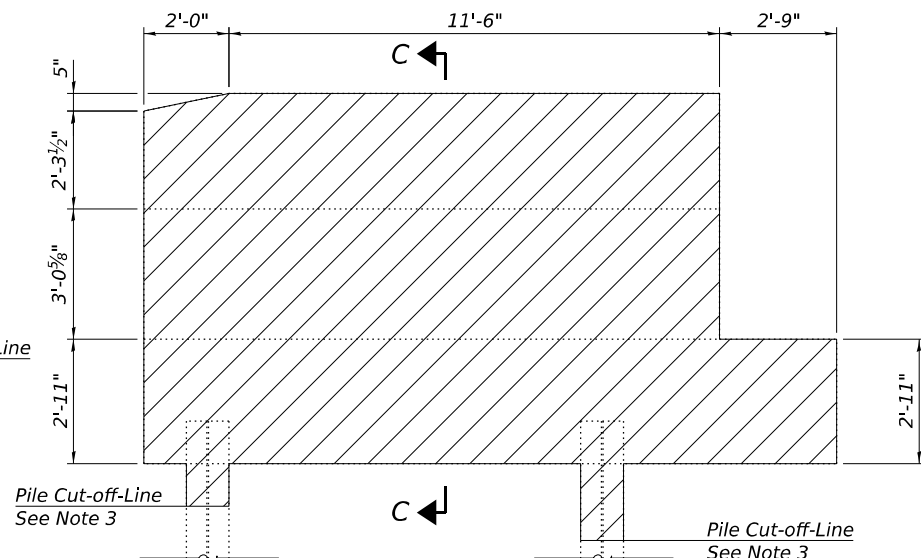


REMOVAL ELEVATION - EAST ABUTMENT



SECTION A-A

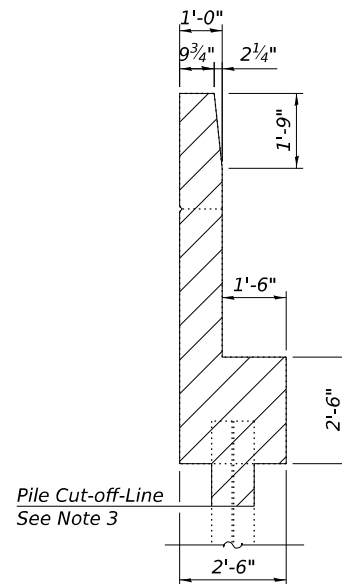
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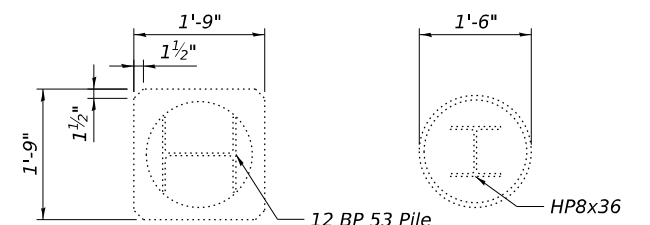
REMOVAL ELEVATION - TYPICAL WINGWALL

(Structure No. 099-8312)

(NE Wingwall Shown, typ. at East and West Abutments)

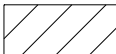


SECTION C-C



SECTION THRU PILE ENCASEMENT

LEGEND:

 Removal of Existing Structures No. 1

NOTES:

- For additional Notes, see Sheet SA-14.
- Existing Creosoted Timber Piles and Pile encasement concrete removals shall not be paid separately but shall be included in the cost of Removal of Existing Structures No. 2.
- For Pile Removal Elevations, see Sheet SA-14.

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ENGINEERING GROUP, LLC

USER NAME	=	DESIGNED - KJD	REVISED -
		CHECKED - MI, JJS	REVISED -
PLOT SCALE	=	DRAWN - KJD	REVISED -
PLOT DATE	=	CHECKED - MI, JJS	REVISED -

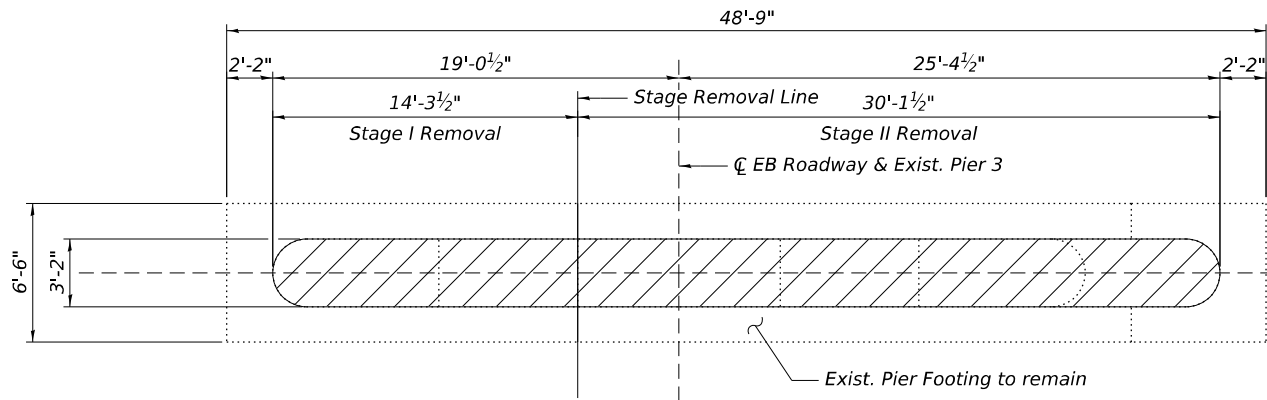
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB EXIST. STRUCT. REM. SECTIONS & DETAILS (SHT 1 OF 3)
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

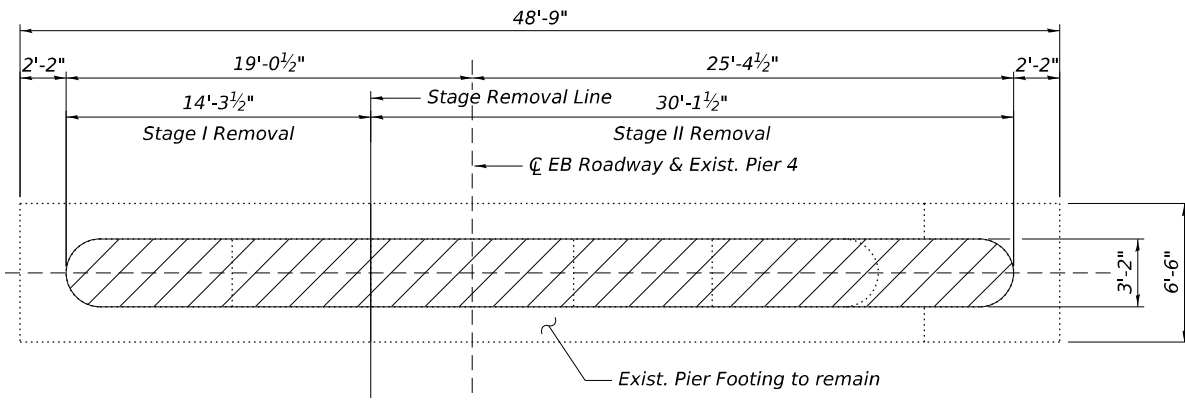
SHEET SA-15 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R28				
ILLINOIS				FED. AID PROJECT

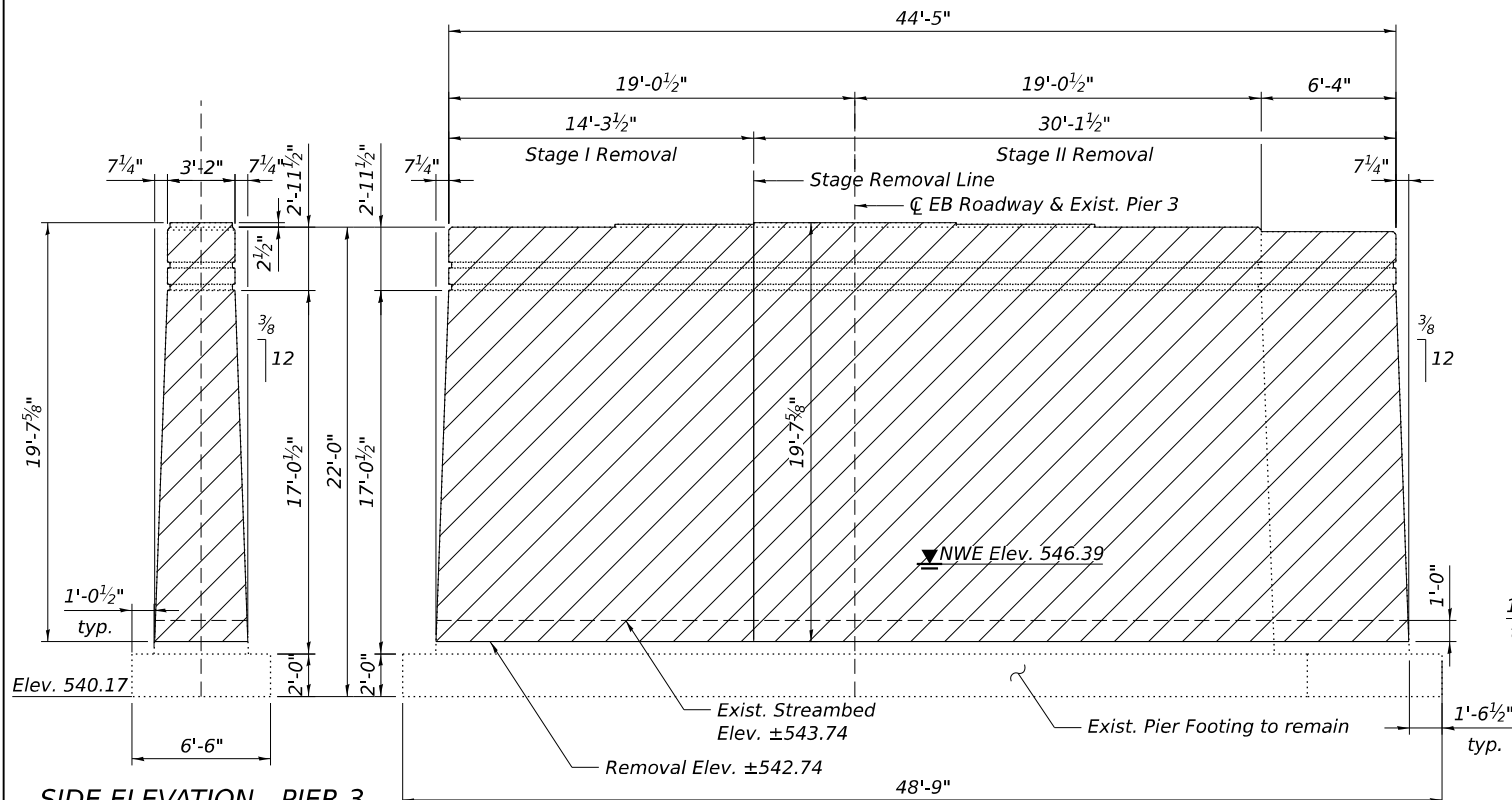
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PLAN - PIER 3 REMOVAL

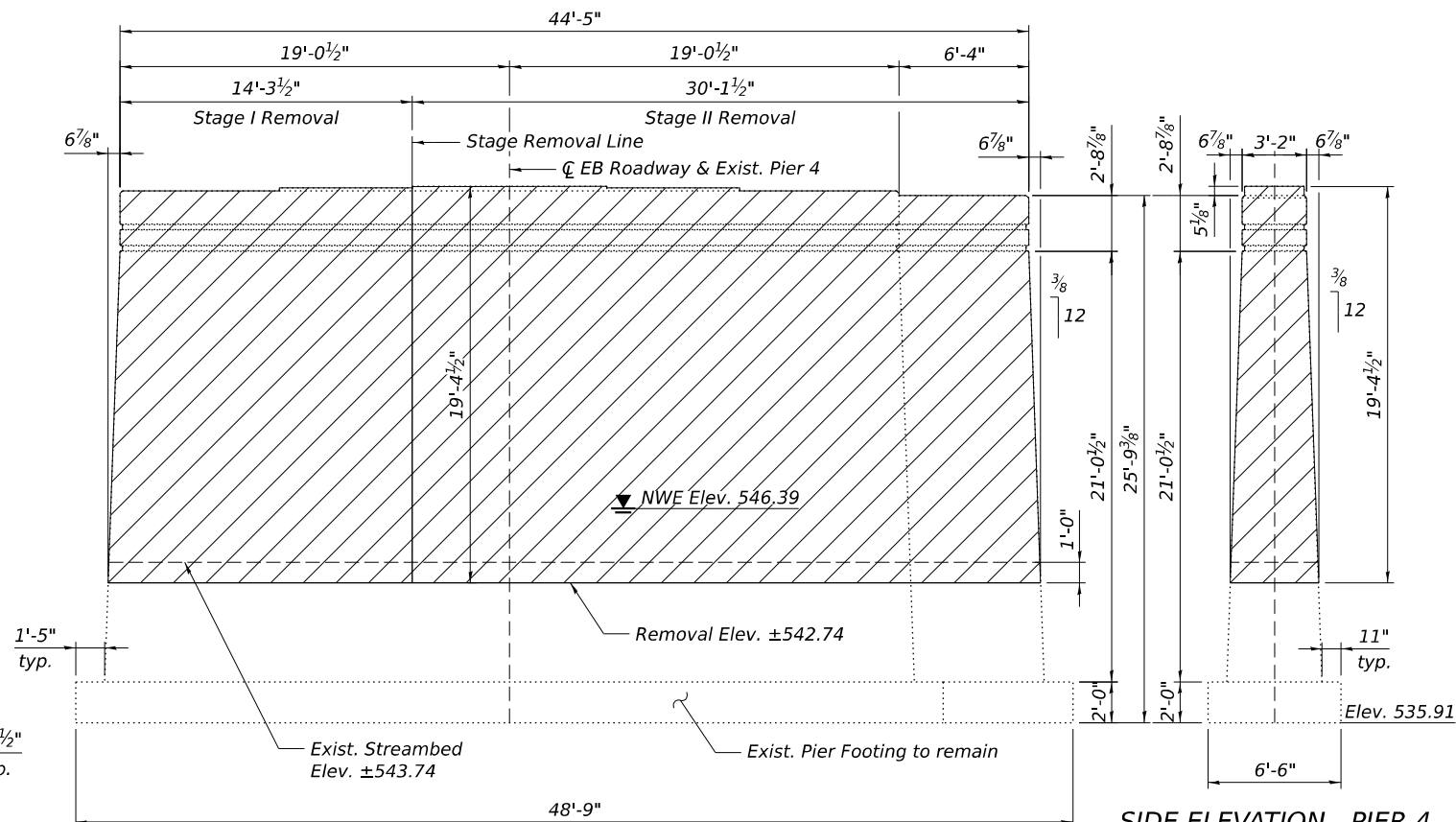


PLAN - PIER 4 REMOVAL



SIDE ELEVATION - PIER 3

ELEVATION - PIER 3 REMOVAL
(Looking East)



SIDE ELEVATION - PIER 4

ELEVATION - PIER 4 REMOVAL
(Looking East)

NOTE:
1. For additional notes, see Sheet SA-14.

LEGEND:
Removal of Existing Structures No. 1

HBM
ENGINEERING GROUP, LLC

USER NAME	=	DESIGNED - KJD	REVISED -
		CHECKED - MI, JJS	REVISED -
PLOT SCALE	=	DRAWN - KJD	REVISED -
PLOT DATE	=	CHECKED - MI, JJS	REVISED -

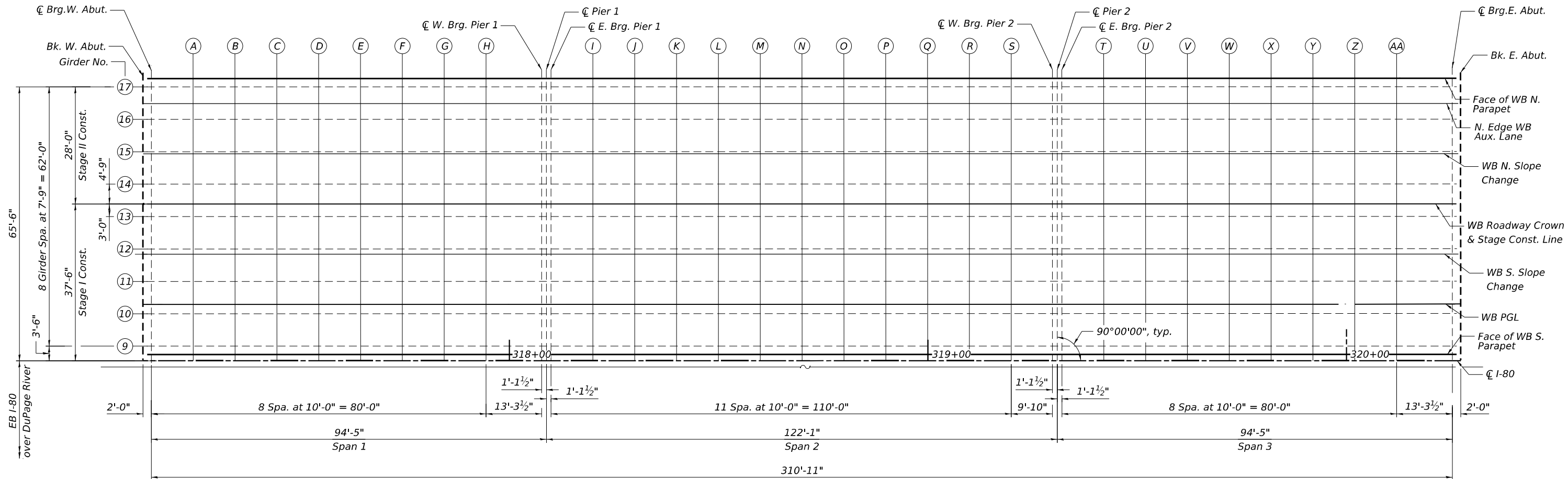
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB EXIST. STRUCT. REM. SECTIONS & DETAILS (SHT 3 OF 3)
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

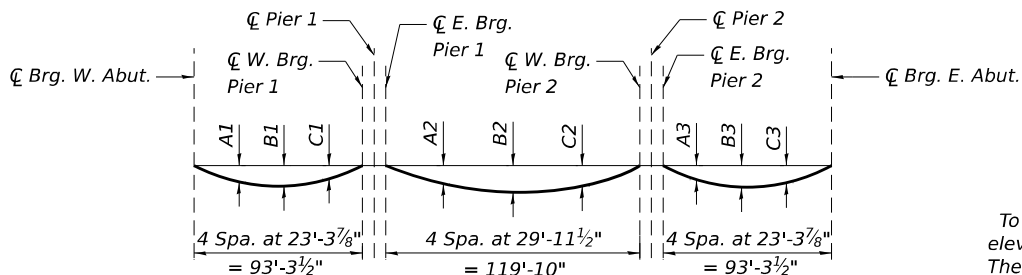
SHEET SA-17 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	550
CONTRACT NO. 62R28				
ILLINOIS				FED. AID PROJECT

MODEL: Default
FILE NAME: pw://transsystems-pw.bentley.com/transcorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/01-Structures/04-Sheets/CAD/ML-04_62R28/04-Sheets/04-Structures/0998312_0998313-MI-04-01B-WB_Top of Slab Elevation Layout.dgn



Girder #	Span 1			Span 2			Span 3		
	A1	B1	C1	A2	B2	C2	A3	B3	C3
9-17	5/8"	1"	5/8"	1 7/8"	2 5/8"	1 7/8"	5/8"	1"	5/8"



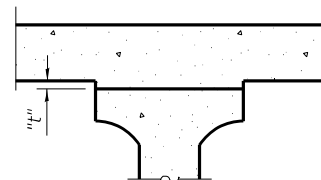
Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections and grinding as shown on Sheets SA-19 thru SA-24.

DEAD LOAD DEFLECTION
(Includes weight of concrete only, excluding beams)

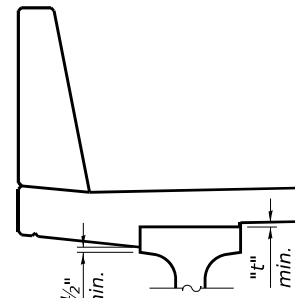
FILLET HEIGHTS

To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding" shown on Sheets SA-19 thru SA-24, minus the initial slab thickness prior to grinding, equals the fillet heights "t" above top flange of beams.

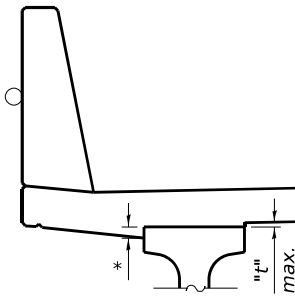
The slab is to be ground after curing to achieve smoothness, but the slab is not to be ground to elevations below the "Theoretical Grade Elevations" shown on Sheets SA-19 thru SA-24. For grinding the deck, see Special Provisions.



INTERIOR BEAMS



At Minimum Fillet



At Maximum Fillet

* Variable (not less than 1/2")

EXTERIOR BEAMS



USER NAME =	DESIGNED - LAB	REVISED -
PLOT SCALE =	CHECKED - MI, PG	REVISED -
PLOT DATE =	DRAWN - LAB	REVISED -
	CHECKED - MI, PG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB TOP OF SLAB ELEVATION LAYOUT
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

SHEET SA-18 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	551
CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: pw://transsystems-pw.bentley.com/transscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/01-Structures/0998312_0998313-MI-04-04-01-09-Top of Slab Elevation (Sheet_1 of 6).dgn

FACE OF WB S. PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	12.00'	567.79	567.81
CL. BRG. W. ABUT.	317+14.40	12.00'	567.78	567.80
A	317+24.40	12.00'	567.74	567.78
B	317+34.40	12.00'	567.69	567.76
C	317+44.40	12.00'	567.65	567.74
D	317+54.40	12.00'	567.60	567.70
E	317+64.40	12.00'	567.56	567.66
F	317+74.40	12.00'	567.51	567.61
G	317+84.40	12.00'	567.47	567.55
H	317+94.40	12.00'	567.43	567.48
CL. W. BRG. PIER 1	318+07.69	12.00'	567.37	567.39
CL. PIER 1	318+08.81	12.00'	567.36	567.38
CL. E. BRG. PIER 1	318+09.94	12.00'	567.36	567.38
I	318+19.94	12.00'	567.31	567.39
J	318+29.94	12.00'	567.27	567.40
K	318+39.94	12.00'	567.22	567.40
L	318+49.94	12.00'	567.18	567.39
M	318+59.94	12.00'	567.13	567.37
N	318+69.94	12.00'	567.09	567.33
O	318+79.94	12.00'	567.05	567.28
P	318+89.94	12.00'	567.00	567.21
Q	318+99.94	12.00'	566.96	567.13
R	319+09.94	12.00'	566.91	567.04
S	319+19.94	12.00'	566.87	566.94
CL. W. BRG. PIER 2	319+29.77	12.00'	566.82	566.84
CL. PIER 2	319+30.90	12.00'	566.82	566.84
CL. E. BRG. PIER 2	319+32.02	12.00'	566.81	566.83
T	319+42.02	12.00'	566.77	566.82
U	319+52.02	12.00'	566.72	566.79
V	319+62.02	12.00'	566.68	566.77
W	319+72.02	12.00'	566.64	566.73
X	319+82.02	12.00'	566.59	566.69
Y	319+92.02	12.00'	566.55	566.64
Z	320+02.02	12.00'	566.50	566.58
AA	320+12.02	12.00'	566.46	566.51
CL. BRG. E. ABUT.	320+25.31	12.00'	566.40	566.42
BK. E. ABUT.	320+27.31	12.00'	566.39	566.41

BEAM 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	10.00'	567.83	567.85
CL. BRG. W. ABUT.	317+14.40	10.00'	567.82	567.84
A	317+24.40	10.00'	567.78	567.82
B	317+34.40	10.00'	567.73	567.80
C	317+44.40	10.00'	567.69	567.78
D	317+54.40	10.00'	567.64	567.74
E	317+64.40	10.00'	567.60	567.70
F	317+74.40	10.00'	567.55	567.65
G	317+84.40	10.00'	567.51	567.59
H	317+94.40	10.00'	567.47	567.52
CL. W. BRG. PIER 1	318+07.69	10.00'	567.41	567.43
CL. PIER 1	318+08.81	10.00'	567.40	567.42
CL. E. BRG. PIER 1	318+09.94	10.00'	567.40	567.42
I	318+19.94	10.00'	567.35	567.43
J	318+29.94	10.00'	567.31	567.44
K	318+39.94	10.00'	567.26	567.44
L	318+49.94	10.00'	567.22	567.43
M	318+59.94	10.00'	567.17	567.41
N	318+69.94	10.00'	567.13	567.37
O	318+79.94	10.00'	567.09	567.32
P	318+89.94	10.00'	567.04	567.25
Q	318+99.94	10.00'	567.00	567.17
R	319+09.94	10.00'	566.95	567.08
S	319+19.94	10.00'	566.91	566.98
CL. W. BRG. PIER 2	319+29.77	10.00'	566.86	566.88
CL. PIER 2	319+30.90	10.00'	566.86	566.88
CL. E. BRG. PIER 2	319+32.02	10.00'	566.85	566.87
T	319+42.02	10.00'	566.81	566.86
U	319+52.02	10.00'	566.76	566.83
V	319+62.02	10.00'	566.72	566.81
W	319+72.02	10.00'	566.68	566.77
X	319+82.02	10.00'	566.63	566.73
Y	319+92.02	10.00'	566.59	566.68
Z	320+02.02	10.00'	566.54	566.62
AA	320+12.02	10.00'	566.50	566.55
CL. BRG. E. ABUT.	320+25.31	10.00'	566.44	566.46
BK. E. ABUT.	320+27.31	10.00'	566.43	566.45

BEAM 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	2.25'	567.99	568.01
CL. BRG. W. ABUT.	317+14.40	2.25'	567.98	568.00
A	317+24.40	2.25'	567.93	567.98
B	317+34.40	2.25'	567.89	567.96
C	317+44.40	2.25'	567.84	567.93
D	317+54.40	2.25'	567.80	567.90
E	317+64.40	2.25'	567.75	567.85
F	317+74.40	2.25'	567.71	567.80
G	317+84.40	2.25'	567.67	567.74
H	317+94.40	2.25'	567.62	567.68
CL. W. BRG. PIER 1	318+07.69	2.25'	567.56	567.58
CL. PIER 1	318+08.81	2.25'	567.56	567.58
CL. E. BRG. PIER 1	318+09.94	2.25'	567.55	567.57
I	318+19.94	2.25'	567.51	567.59
J	318+29.94	2.25'	567.46	567.59
K	318+39.94	2.25'	567.42	567.59
L	318+49.94	2.25'	567.37	567.58
M	318+59.94	2.25'	567.33	567.56
N	318+69.94	2.25'	567.28	567.52
O	318+79.94	2.25'	567.24	567.47
P	318+89.94	2.25'	567.20	567.41
Q	318+99.94	2.25'	567.15	567.33
R	319+09.94	2.25'	567.11	567.24
S	319+19.94	2.25'	567.06	567.14
CL. W. BRG. PIER 2	319+29.77	2.25'	567.02	567.04
CL. PIER 2	319+30.90	2.25'	567.01	567.03
CL. E. BRG. PIER 2	319+32.02	2.25'	567.01	567.03
T	319+42.02	2.25'	566.96	567.01
U	319+52.02	2.25'	566.92	566.99
V	319+62.02	2.25'	566.87	566.96
W	319+72.02	2.25'	566.83	566.93
X	319+82.02	2.25'	566.79	566.88
Y	319+92.02	2.25'	566.74	566.83
Z	320+02.02	2.25'	566.70	566.77
AA	320+12.02	2.25'	566.65	566.71
CL. BRG. E. ABUT.	320+25.31	2.25'	566.59	566.61
BK. E. ABUT.	320+27.31	2.25'	566.58	566.60



USER NAME =	DESIGNED - LAB	REVISED -
	CHECKED - MI, PG	REVISED -
PLOT SCALE =	DRAWN - LAB	REVISED -
PLOT DATE =	CHECKED - MI, PG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB TOP OF SLAB ELEVATION TABLES (SHEET 1 OF 6)
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	552
		CONTRACT NO. 62R28		
SHEET SA-19 OF SA-98 SHEETS		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: pw://transsystems-pw.bentley.com/transyscorp-pw1-Hosted/Documents/Projects_2018/CH401/401180022/01-Structures/CAD/ML-04_62R28/04-Sheets/04-Sheets/0998313-ML-04-020-Top of Slab Elevation (Sheet 2 of 6).dgn

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	0.00'	568.03	568.05
CL. BRG. W. ABUT.	317+14.40	0.00'	568.02	568.04
A	317+24.40	0.00'	567.98	568.02
B	317+34.40	0.00'	567.93	568.00
C	317+44.40	0.00'	567.89	567.98
D	317+54.40	0.00'	567.84	567.94
E	317+64.40	0.00'	567.80	567.90
F	317+74.40	0.00'	567.75	567.85
G	317+84.40	0.00'	567.71	567.79
H	317+94.40	0.00'	567.67	567.72
CL. W. BRG. PIER 1	318+07.69	0.00'	567.61	567.63
CL. PIER 1	318+08.81	0.00'	567.60	567.62
CL. E. BRG. PIER 1	318+09.94	0.00'	567.60	567.62
I	318+19.94	0.00'	567.55	567.63
J	318+29.94	0.00'	567.51	567.64
K	318+39.94	0.00'	567.46	567.64
L	318+49.94	0.00'	567.42	567.63
M	318+59.94	0.00'	567.37	567.61
N	318+69.94	0.00'	567.33	567.57
O	318+79.94	0.00'	567.29	567.52
P	318+89.94	0.00'	567.24	567.45
Q	318+99.94	0.00'	567.20	567.37
R	319+09.94	0.00'	567.15	567.28
S	319+19.94	0.00'	567.11	567.18
CL. W. BRG. PIER 2	319+29.77	0.00'	567.06	567.08
CL. PIER 2	319+30.90	0.00'	567.06	567.08
CL. E. BRG. PIER 2	319+32.02	0.00'	567.05	567.07
T	319+42.02	0.00'	567.01	567.06
U	319+52.02	0.00'	566.96	567.03
V	319+62.02	0.00'	566.92	567.01
W	319+72.02	0.00'	566.88	566.97
X	319+82.02	0.00'	566.83	566.93
Y	319+92.02	0.00'	566.79	566.88
Z	320+02.02	0.00'	566.74	566.82
AA	320+12.02	0.00'	566.70	566.75
CL. BRG. E. ABUT.	320+25.31	0.00'	566.64	566.66
BK. E. ABUT.	320+27.31	0.00'	566.63	566.65

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	-5.50'	568.14	568.16
CL. BRG. W. ABUT.	317+14.40	-5.50'	568.13	568.15
A	317+24.40	-5.50'	568.09	568.13
B	317+34.40	-5.50'	568.04	568.11
C	317+44.40	-5.50'	568.00	568.09
D	317+54.40	-5.50'	567.95	568.05
E	317+64.40	-5.50'	567.91	568.01
F	317+74.40	-5.50'	567.86	567.96
G	317+84.40	-5.50'	567.82	567.90
H	317+94.40	-5.50'	567.78	567.83
CL. W. BRG. PIER 1	318+07.69	-5.50'	567.72	567.74
CL. PIER 1	318+08.81	-5.50'	567.71	567.73
CL. E. BRG. PIER 1	318+09.94	-5.50'	567.71	567.73
I	318+19.94	-5.50'	567.66	567.74
J	318+29.94	-5.50'	567.62	567.75
K	318+39.94	-5.50'	567.57	567.75
L	318+49.94	-5.50'	567.53	567.74
M	318+59.94	-5.50'	567.48	567.72
N	318+69.94	-5.50'	567.44	567.68
O	318+79.94	-5.50'	567.40	567.63
P	318+89.94	-5.50'	567.35	567.56
Q	318+99.94	-5.50'	567.31	567.48
R	319+09.94	-5.50'	567.26	567.39
S	319+19.94	-5.50'	567.22	567.29
CL. W. BRG. PIER 2	319+29.77	-5.50'	567.17	567.19
CL. PIER 2	319+30.90	-5.50'	567.17	567.19
CL. E. BRG. PIER 2	319+32.02	-5.50'	567.16	567.18
T	319+42.02	-5.50'	567.12	567.17
U	319+52.02	-5.50'	567.07	567.14
V	319+62.02	-5.50'	567.03	567.12
W	319+72.02	-5.50'	566.99	567.08
X	319+82.02	-5.50'	566.94	567.04
Y	319+92.02	-5.50'	566.90	566.99
Z	320+02.02	-5.50'	566.85	566.93
AA	320+12.02	-5.50'	566.81	566.86
CL. BRG. E. ABUT.	320+25.31	-5.50'	566.75	566.77
BK. E. ABUT.	320+27.31	-5.50'	566.74	566.76

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	-12.00'	568.27	568.29
CL. BRG. W. ABUT.	317+14.40	-12.00'	568.26	568.28
A	317+24.40	-12.00'	568.22	568.26
B	317+34.40	-12.00'	568.17	568.24
C	317+44.40	-12.00'	568.13	568.22
D	317+54.40	-12.00'	568.08	568.18
E	317+64.40	-12.00'	568.04	568.14
F	317+74.40	-12.00'	567.99	568.09
G	317+84.40	-12.00'	567.95	568.03
H	317+94.40	-12.00'	567.91	567.96
CL. W. BRG. PIER 1	318+07.69	-12.00'	567.85	567.87
CL. PIER 1	318+08.81	-12.00'	567.84	567.86
CL. E. BRG. PIER 1	318+09.94	-12.00'	567.84	567.86
I	318+19.94	-12.00'	567.79	567.87
J	318+29.94	-12.00'	567.75	567.88
K	318+39.94	-12.00'	567.70	567.88
L	318+49.94	-12.00'	567.66	567.87
M	318+59.94	-12.00'	567.61	567.85
N	318+69.94	-12.00'	567.57	567.81
O	318+79.94	-12.00'	567.53	567.76
P	318+89.94	-12.00'	567.48	567.69
Q	318+99.94	-12.00'	567.44	567.61
R	319+09.94	-12.00'	567.39	567.52
S	319+19.94	-12.00'	567.35	567.42
CL. W. BRG. PIER 2	319+29.77	-12.00'	567.30	567.32
CL. PIER 2	319+30.90	-12.00'	567.30	567.32
CL. E. BRG. PIER 2	319+32.02	-12.00'	567.29	567.31
T	319+42.02	-12.00'	567.25	567.30
U	319+52.02	-12.00'	567.20	567.27
V	319+62.02	-12.00'	567.16	567.25
W	319+72.02	-12.00'	567.12	567.21
X	319+82.02	-12.00'	567.07	567.17
Y	319+92.02	-12.00'	567.03	567.12
Z	320+02.02	-12.00'	566.98	567.06
AA	320+12.02	-12.00'	566.94	566.99
CL. BRG. E. ABUT.	320+25.31	-12.00'	566.88	566.90
BK. E. ABUT.	320+27.31	-12.00'	566.87	566.89



USER NAME	=	DESIGNED	-	LAB	REVISED	-
		CHECKED	-	MI, PG	REVISED	-
PLOT SCALE	=	DRAWN	-	LAB	REVISED	-
PLOT DATE	=	CHECKED	-	MI, PG	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB TOP OF SLAB ELEVATION TABLES (SHEET 2 OF 6)
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	553
		CONTRACT NO. 62R28		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: pw://transys-pw.bentley.com/transyscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/01-Structec/CAD/ML-04_62R28/04-Sheets/04-Structures/0998313-ML-04-021-Top of Slab Elevation (Sheet_3 of 6).dgn
10/9/2023 3:24:20 PM

BEAM 12				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	-13.25'	568.29	568.31
CL. BRG. W. ABUT.	317+14.40	-13.25'	568.28	568.30
A	317+24.40	-13.25'	568.24	568.28
B	317+34.40	-13.25'	568.19	568.26
C	317+44.40	-13.25'	568.15	568.23
D	317+54.40	-13.25'	568.10	568.20
E	317+64.40	-13.25'	568.06	568.16
F	317+74.40	-13.25'	568.01	568.11
G	317+84.40	-13.25'	567.97	568.05
H	317+94.40	-13.25'	567.92	567.98
CL. W. BRG. PIER 1	318+07.69	-13.25'	567.87	567.89
CL. PIER 1	318+08.81	-13.25'	567.86	567.88
CL. E. BRG. PIER 1	318+09.94	-13.25'	567.86	567.88
I	318+19.94	-13.25'	567.81	567.89
J	318+29.94	-13.25'	567.77	567.90
K	318+39.94	-13.25'	567.72	567.90
L	318+49.94	-13.25'	567.68	567.89
M	318+59.94	-13.25'	567.63	567.87
N	318+69.94	-13.25'	567.59	567.83
O	318+79.94	-13.25'	567.54	567.78
P	318+89.94	-13.25'	567.50	567.71
Q	318+99.94	-13.25'	567.45	567.63
R	319+09.94	-13.25'	567.41	567.54
S	319+19.94	-13.25'	567.37	567.44
CL. W. BRG. PIER 2	319+29.77	-13.25'	567.32	567.34
CL. PIER 2	319+30.90	-13.25'	567.32	567.34
CL. E. BRG. PIER 2	319+32.02	-13.25'	567.31	567.33
T	319+42.02	-13.25'	567.27	567.31
U	319+52.02	-13.25'	567.22	567.29
V	319+62.02	-13.25'	567.18	567.27
W	319+72.02	-13.25'	567.13	567.23
X	319+82.02	-13.25'	567.09	567.19
Y	319+92.02	-13.25'	567.04	567.14
Z	320+02.02	-13.25'	567.00	567.08
AA	320+12.02	-13.25'	566.96	567.01
CL. BRG. E. ABUT.	320+25.31	-13.25'	566.90	566.92
BK. E. ABUT.	320+27.31	-13.25'	566.89	566.91

BEAM 13				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	-21.00'	568.41	568.43
CL. BRG. W. ABUT.	317+14.40	-21.00'	568.40	568.42
A	317+24.40	-21.00'	568.35	568.40
B	317+34.40	-21.00'	568.31	568.38
C	317+44.40	-21.00'	568.26	568.35
D	317+54.40	-21.00'	568.22	568.32
E	317+64.40	-21.00'	568.17	568.27
F	317+74.40	-21.00'	568.13	568.22
G	317+84.40	-21.00'	568.09	568.16
H	317+94.40	-21.00'	568.04	568.10
CL. W. BRG. PIER 1	318+07.69	-21.00'	567.98	568.00
CL. PIER 1	318+08.81	-21.00'	567.98	568.00
CL. E. BRG. PIER 1	318+09.94	-21.00'	567.97	567.99
I	318+19.94	-21.00'	567.93	568.01
J	318+29.94	-21.00'	567.88	568.01
K	318+39.94	-21.00'	567.84	568.01
L	318+49.94	-21.00'	567.79	568.00
M	318+59.94	-21.00'	567.75	567.98
N	318+69.94	-21.00'	567.70	567.94
O	318+79.94	-21.00'	567.66	567.89
P	318+89.94	-21.00'	567.62	567.83
Q	318+99.94	-21.00'	567.57	567.75
R	319+09.94	-21.00'	567.53	567.66
S	319+19.94	-21.00'	567.48	567.56
CL. W. BRG. PIER 2	319+29.77	-21.00'	567.44	567.46
CL. PIER 2	319+30.90	-21.00'	567.43	567.45
CL. E. BRG. PIER 2	319+32.02	-21.00'	567.43	567.45
T	319+42.02	-21.00'	567.38	567.43
U	319+52.02	-21.00'	567.34	567.41
V	319+62.02	-21.00'	567.29	567.38
W	319+72.02	-21.00'	567.25	567.35
X	319+82.02	-21.00'	567.21	567.30
Y	319+92.02	-21.00'	567.16	567.25
Z	320+02.02	-21.00'	567.12	567.19
AA	320+12.02	-21.00'	567.07	567.13
CL. BRG. E. ABUT.	320+25.31	-21.00'	567.01	567.03
BK. E. ABUT.	320+27.31	-21.00'	567.00	567.02

WB ROADWAY CROWN & STAGE CONST. LINE				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	-24.00'	568.45	568.47
CL. BRG. W. ABUT.	317+14.40	-24.00'	568.44	568.46
A	317+24.40	-24.00'	568.40	568.44
B	317+34.40	-24.00'	568.35	568.42
C	317+44.40	-24.00'	568.31	568.40
D	317+54.40	-24.00'	568.26	568.36
E	317+64.40	-24.00'	568.22	568.32
F	317+74.40	-24.00'	568.17	568.27
G	317+84.40	-24.00'	568.13	568.21
H	317+94.40	-24.00'	568.09	568.14
CL. W. BRG. PIER 1	318+07.69	-24.00'	568.03	568.05
CL. PIER 1	318+08.81	-24.00'	568.02	568.04
CL. E. BRG. PIER 1	318+09.94	-24.00'	568.02	568.04
I	318+19.94	-24.00'	567.97	568.05
J	318+29.94	-24.00'	567.93	568.06
K	318+39.94	-24.00'	567.88	568.06
L	318+49.94	-24.00'	567.84	568.05
M	318+59.94	-24.00'	567.79	568.03
N	318+69.94	-24.00'	567.75	567.99
O	318+79.94	-24.00'	567.71	567.94
P	318+89.94	-24.00'	567.66	567.87
Q	318+99.94	-24.00'	567.62	567.79
R	319+09.94	-24.00'	567.57	567.70
S	319+19.94	-24.00'	567.53	567.60
CL. W. BRG. PIER 2	319+29.77	-24.00'	567.48	567.50
CL. PIER 2	319+30.90	-24.00'	567.48	567.50
CL. E. BRG. PIER 2	319+32.02	-24.00'	567.47	567.49
T	319+42.02	-24.00'	567.43	567.48
U	319+52.02	-24.00'	567.38	567.45
V	319+62.02	-24.00'	567.34	567.43
W	319+72.02	-24.00'	567.30	567.39
X	319+82.02	-24.00'	567.25	567.35
Y	319+92.02	-24.00'	567.21	567.30
Z	320+02.02	-24.00'	567.16	567.24
AA	320+12.02	-24.00'	567.12	567.17
CL. BRG. E. ABUT.	320+25.31	-24.00'	567.06	567.08
BK. E. ABUT.	320+27.31	-24.00'	567.05	567.07



USER NAME =	DESIGNED - LAB	REVISED -
	CHECKED - MI, PG	REVISED -
PLOT SCALE =	DRAWN - LAB	REVISED -
PLOT DATE =	CHECKED - MI, PG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB TOP OF SLAB ELEVATION TABLES (SHEET 3 OF 6)
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	554
				CONTRACT NO. 62R28
SHEET SA-21 OF SA-98 SHEETS		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: pw://transsystems-pw.bentley.com/transscorp-pw1-Hosted/Documents/Projects_2018/CH401/401180022/01-Stattec/CAD/ML-04_62R28/04-Sheets/04-Structures/0998313-ML-04-022-Top of Slab Elevation (Sheet 4 of 6).dgn
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BEAM 14				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	-28.75'	568.38	568.40
CL. BRG. W. ABUT.	317+14.40	-28.75'	568.37	568.39
A	317+24.40	-28.75'	568.33	568.37
B	317+34.40	-28.75'	568.28	568.35
C	317+44.40	-28.75'	568.24	568.32
D	317+54.40	-28.75'	568.19	568.29
E	317+64.40	-28.75'	568.15	568.25
F	317+74.40	-28.75'	568.10	568.20
G	317+84.40	-28.75'	568.06	568.14
H	317+94.40	-28.75'	568.01	568.07
CL. W. BRG. PIER 1	318+07.69	-28.75'	567.96	567.98
CL. PIER 1	318+08.81	-28.75'	567.95	567.97
CL. E. BRG. PIER 1	318+09.94	-28.75'	567.95	567.97
I	318+19.94	-28.75'	567.90	567.98
J	318+29.94	-28.75'	567.86	567.99
K	318+39.94	-28.75'	567.81	567.99
L	318+49.94	-28.75'	567.77	567.98
M	318+59.94	-28.75'	567.72	567.96
N	318+69.94	-28.75'	567.68	567.92
O	318+79.94	-28.75'	567.63	567.87
P	318+89.94	-28.75'	567.59	567.80
Q	318+99.94	-28.75'	567.54	567.72
R	319+09.94	-28.75'	567.50	567.63
S	319+19.94	-28.75'	567.46	567.53
CL. W. BRG. PIER 2	319+29.77	-28.75'	567.41	567.43
CL. PIER 2	319+30.90	-28.75'	567.41	567.43
CL. E. BRG. PIER 2	319+32.02	-28.75'	567.40	567.42
T	319+42.02	-28.75'	567.36	567.40
U	319+52.02	-28.75'	567.31	567.38
V	319+62.02	-28.75'	567.27	567.36
W	319+72.02	-28.75'	567.22	567.32
X	319+82.02	-28.75'	567.18	567.28
Y	319+92.02	-28.75'	567.13	567.23
Z	320+02.02	-28.75'	567.09	567.17
AA	320+12.02	-28.75'	567.05	567.10
CL. BRG. E. ABUT.	320+25.31	-28.75'	566.99	567.01
BK. E. ABUT.	320+27.31	-28.75'	566.98	567.00

WB N. SLOPE CHANGE				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	-36.00'	568.27	568.29
CL. BRG. W. ABUT.	317+14.40	-36.00'	568.26	568.28
A	317+24.40	-36.00'	568.22	568.26
B	317+34.40	-36.00'	568.17	568.24
C	317+44.40	-36.00'	568.13	568.22
D	317+54.40	-36.00'	568.08	568.18
E	317+64.40	-36.00'	568.04	568.14
F	317+74.40	-36.00'	567.99	568.09
G	317+84.40	-36.00'	567.95	568.03
H	317+94.40	-36.00'	567.91	567.96
CL. W. BRG. PIER 1	318+07.69	-36.00'	567.85	567.87
CL. PIER 1	318+08.81	-36.00'	567.84	567.86
CL. E. BRG. PIER 1	318+09.94	-36.00'	567.84	567.86
I	318+19.94	-36.00'	567.79	567.87
J	318+29.94	-36.00'	567.75	567.88
K	318+39.94	-36.00'	567.70	567.88
L	318+49.94	-36.00'	567.66	567.87
M	318+59.94	-36.00'	567.61	567.85
N	318+69.94	-36.00'	567.57	567.81
O	318+79.94	-36.00'	567.53	567.76
P	318+89.94	-36.00'	567.48	567.69
Q	318+99.94	-36.00'	567.44	567.61
R	319+09.94	-36.00'	567.39	567.52
S	319+19.94	-36.00'	567.35	567.42
CL. W. BRG. PIER 2	319+29.77	-36.00'	567.30	567.32
CL. PIER 2	319+30.90	-36.00'	567.30	567.32
CL. E. BRG. PIER 2	319+32.02	-36.00'	567.29	567.31
T	319+42.02	-36.00'	567.25	567.30
U	319+52.02	-36.00'	567.20	567.27
V	319+62.02	-36.00'	567.16	567.25
W	319+72.02	-36.00'	567.12	567.21
X	319+82.02	-36.00'	567.07	567.17
Y	319+92.02	-36.00'	567.03	567.12
Z	320+02.02	-36.00'	566.98	567.06
AA	320+12.02	-36.00'	566.94	566.99
CL. BRG. E. ABUT.	320+25.31	-36.00'	566.88	566.90
BK. E. ABUT.	320+27.31	-36.00'	566.87	566.89

BEAM 15				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	-36.50'	568.26	568.28
CL. BRG. W. ABUT.	317+14.40	-36.50'	568.25	568.27
A	317+24.40	-36.50'	568.21	568.25
B	317+34.40	-36.50'	568.16	568.23
C	317+44.40	-36.50'	568.12	568.21
D	317+54.40	-36.50'	568.07	568.17
E	317+64.40	-36.50'	568.03	568.13
F	317+74.40	-36.50'	567.98	568.08
G	317+84.40	-36.50'	567.94	568.02
H	317+94.40	-36.50'	567.90	567.95
CL. W. BRG. PIER 1	318+07.69	-36.50'	567.84	567.86
CL. PIER 1	318+08.81	-36.50'	567.83	567.85
CL. E. BRG. PIER 1	318+09.94	-36.50'	567.83	567.85
I	318+19.94	-36.50'	567.78	567.86
J	318+29.94	-36.50'	567.74	567.87
K	318+39.94	-36.50'	567.69	567.87
L	318+49.94	-36.50'	567.65	567.86
M	318+59.94	-36.50'	567.60	567.84
N	318+69.94	-36.50'	567.56	567.80
O	318+79.94	-36.50'	567.52	567.75
P	318+89.94	-36.50'	567.47	567.68
Q	318+99.94	-36.50'	567.43	567.60
R	319+09.94	-36.50'	567.38	567.51
S	319+19.94	-36.50'	567.34	567.41
CL. W. BRG. PIER 2	319+29.77	-36.50'	567.29	567.31
CL. PIER 2	319+30.90	-36.50'	567.29	567.31
CL. E. BRG. PIER 2	319+32.02	-36.50'	567.28	567.30
T	319+42.02	-36.50'	567.24	567.29
U	319+52.02	-36.50'	567.19	567.26
V	319+62.02	-36.50'	567.15	567.24
W	319+72.02	-36.50'	567.11	567.20
X	319+82.02	-36.50'	567.06	567.16
Y	319+92.02	-36.50'	567.02	567.11
Z	320+02.02	-36.50'	566.97	567.05
AA	320+12.02	-36.50'	566.93	566.98
CL. BRG. E. ABUT.	320+25.31	-36.50'	566.87	566.89
BK. E. ABUT.	320+27.31	-36.50'	566.86	566.88



USER NAME =	DESIGNED - LAB	REVISED -
	CHECKED - MI, PG	REVISED -
PLOT SCALE =	DRAWN - LAB	REVISED -
	CHECKED - MI, PG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB TOP OF SLAB ELEVATION TABLES (SHEET 4 OF 6)
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	555
		CONTRACT NO. 62R28		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: pw://transsystems-pw.bentley.com/transscorp-pw1-Hosted/Documents/Projects_2018/CH401/401180022/01-Structec/CAD/ML-04_62R28/04-Sheets/04-Sheets/0998313-ML-04-023-2-Top of Slab Elevation (Sheet 5 of 6).dgn

BEAM 16				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	-44.25'	568.11	568.13
CL. BRG. W. ABUT.	317+14.40	-44.25'	568.10	568.12
A	317+24.40	-44.25'	568.05	568.10
B	317+34.40	-44.25'	568.01	568.08
C	317+44.40	-44.25'	567.96	568.05
D	317+54.40	-44.25'	567.92	568.02
E	317+64.40	-44.25'	567.87	567.97
F	317+74.40	-44.25'	567.83	567.92
G	317+84.40	-44.25'	567.79	567.86
H	317+94.40	-44.25'	567.74	567.80
CL. W. BRG. PIER 1	318+07.69	-44.25'	567.68	567.70
CL. PIER 1	318+08.81	-44.25'	567.68	567.70
CL. E. BRG. PIER 1	318+09.94	-44.25'	567.67	567.69
I	318+19.94	-44.25'	567.63	567.71
J	318+29.94	-44.25'	567.58	567.71
K	318+39.94	-44.25'	567.54	567.71
L	318+49.94	-44.25'	567.49	567.70
M	318+59.94	-44.25'	567.45	567.68
N	318+69.94	-44.25'	567.40	567.64
O	318+79.94	-44.25'	567.36	567.59
P	318+89.94	-44.25'	567.32	567.53
Q	318+99.94	-44.25'	567.27	567.45
R	319+09.94	-44.25'	567.23	567.36
S	319+19.94	-44.25'	567.18	567.26
CL. W. BRG. PIER 2	319+29.77	-44.25'	567.14	567.16
CL. PIER 2	319+30.90	-44.25'	567.13	567.15
CL. E. BRG. PIER 2	319+32.02	-44.25'	567.13	567.15
T	319+42.02	-44.25'	567.08	567.13
U	319+52.02	-44.25'	567.04	567.11
V	319+62.02	-44.25'	566.99	567.08
W	319+72.02	-44.25'	566.95	567.05
X	319+82.02	-44.25'	566.91	567.00
Y	319+92.02	-44.25'	566.86	566.95
Z	320+02.02	-44.25'	566.82	566.89
AA	320+12.02	-44.25'	566.77	566.83
CL. BRG. E. ABUT.	320+25.31	-44.25'	566.71	566.73
BK. E. ABUT.	320+27.31	-44.25'	566.70	566.72

N. EDGE WB AUX. LANE				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	-48.00'	568.03	568.05
CL. BRG. W. ABUT.	317+14.40	-48.00'	568.02	568.04
A	317+24.40	-48.00'	567.98	568.02
B	317+34.40	-48.00'	567.93	568.00
C	317+44.40	-48.00'	567.89	567.98
D	317+54.40	-48.00'	567.84	567.94
E	317+64.40	-48.00'	567.80	567.90
F	317+74.40	-48.00'	567.75	567.85
G	317+84.40	-48.00'	567.71	567.79
H	317+94.40	-48.00'	567.67	567.72
CL. W. BRG. PIER 1	318+07.69	-48.00'	567.61	567.63
CL. PIER 1	318+08.81	-48.00'	567.60	567.62
CL. E. BRG. PIER 1	318+09.94	-48.00'	567.60	567.62
I	318+19.94	-48.00'	567.55	567.63
J	318+29.94	-48.00'	567.51	567.64
K	318+39.94	-48.00'	567.46	567.64
L	318+49.94	-48.00'	567.42	567.63
M	318+59.94	-48.00'	567.37	567.61
N	318+69.94	-48.00'	567.33	567.57
O	318+79.94	-48.00'	567.29	567.52
P	318+89.94	-48.00'	567.24	567.45
Q	318+99.94	-48.00'	567.20	567.37
R	319+09.94	-48.00'	567.15	567.28
S	319+19.94	-48.00'	567.11	567.18
CL. W. BRG. PIER 2	319+29.77	-48.00'	567.06	567.08
CL. PIER 2	319+30.90	-48.00'	567.06	567.08
CL. E. BRG. PIER 2	319+32.02	-48.00'	567.05	567.07
T	319+42.02	-48.00'	567.01	567.06
U	319+52.02	-48.00'	566.96	567.03
V	319+62.02	-48.00'	566.92	567.01
W	319+72.02	-48.00'	566.88	566.97
X	319+82.02	-48.00'	566.83	566.93
Y	319+92.02	-48.00'	566.79	566.88
Z	320+02.02	-48.00'	566.74	566.82
AA	320+12.02	-48.00'	566.70	566.75
CL. BRG. E. ABUT.	320+25.31	-48.00'	566.64	566.66
BK. E. ABUT.	320+27.31	-48.00'	566.63	566.65

BEAM 17				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	-52.00'	567.95	567.97
CL. BRG. W. ABUT.	317+14.40	-52.00'	567.94	567.96
A	317+24.40	-52.00'	567.90	567.94
B	317+34.40	-52.00'	567.85	567.92
C	317+44.40	-52.00'	567.81	567.90
D	317+54.40	-52.00'	567.76	567.86
E	317+64.40	-52.00'	567.72	567.82
F	317+74.40	-52.00'	567.67	567.77
G	317+84.40	-52.00'	567.63	567.71
H	317+94.40	-52.00'	567.59	567.64
CL. W. BRG. PIER 1	318+07.69	-52.00'	567.53	567.55
CL. PIER 1	318+08.81	-52.00'	567.52	567.54
CL. E. BRG. PIER 1	318+09.94	-52.00'	567.52	567.54
I	318+19.94	-52.00'	567.47	567.55
J	318+29.94	-52.00'	567.43	567.56
K	318+39.94	-52.00'	567.38	567.56
L	318+49.94	-52.00'	567.34	567.55
M	318+59.94	-52.00'	567.29	567.53
N	318+69.94	-52.00'	567.25	567.49
O	318+79.94	-52.00'	567.21	567.44
P	318+89.94	-52.00'	567.16	567.37
Q	318+99.94	-52.00'	567.12	567.29
R	319+09.94	-52.00'	567.07	567.20
S	319+19.94	-52.00'	567.03	567.10
CL. W. BRG. PIER 2	319+29.77	-52.00'	566.98	567.00
CL. PIER 2	319+30.90	-52.00'	566.98	567.00
CL. E. BRG. PIER 2	319+32.02	-52.00'	566.97	566.99
T	319+42.02	-52.00'	566.93	566.98
U	319+52.02	-52.00'	566.88	566.95
V	319+62.02	-52.00'	566.84	566.93
W	319+72.02	-52.00'	566.80	566.89
X	319+82.02	-52.00'	566.75	566.85
Y	319+92.02	-52.00'	566.71	566.80
Z	320+02.02	-52.00'	566.66	566.74
AA	320+12.02	-52.00'	566.62	566.67
CL. BRG. E. ABUT.	320+25.31	-52.00'	566.56	566.58
BK. E. ABUT.	320+27.31	-52.00'	566.55	566.57



USER NAME =	DESIGNED - LAB	REVISED -
	CHECKED - MI, PG	REVISED -
PLOT SCALE =	DRAWN - LAB	REVISED -
PLOT DATE =	CHECKED - MI, PG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB TOP OF SLAB ELEVATION TABLES (SHEET 5 OF 6)
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	556
CONTRACT NO. 62R28				
ILLINOIS		FED. AID PROJECT		

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9/5/2023 6:08:04 PM

FACE OF WB N. PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	-54.00'	567.91	567.93
CL. BRG. W. ABUT.	317+14.40	-54.00'	567.90	567.92
A	317+24.40	-54.00'	567.86	567.90
B	317+34.40	-54.00'	567.81	567.88
C	317+44.40	-54.00'	567.77	567.86
D	317+54.40	-54.00'	567.72	567.82
E	317+64.40	-54.00'	567.68	567.78
F	317+74.40	-54.00'	567.63	567.73
G	317+84.40	-54.00'	567.59	567.67
H	317+94.40	-54.00'	567.55	567.60
CL. W. BRG. PIER 1	318+07.69	-54.00'	567.49	567.51
CL. PIER 1	318+08.81	-54.00'	567.48	567.50
CL. E. BRG. PIER 1	318+09.94	-54.00'	567.48	567.50
I	318+19.94	-54.00'	567.43	567.51
J	318+29.94	-54.00'	567.39	567.52
K	318+39.94	-54.00'	567.34	567.52
L	318+49.94	-54.00'	567.30	567.51
M	318+59.94	-54.00'	567.25	567.49
N	318+69.94	-54.00'	567.21	567.45
O	318+79.94	-54.00'	567.17	567.40
P	318+89.94	-54.00'	567.12	567.33
Q	318+99.94	-54.00'	567.08	567.25
R	319+09.94	-54.00'	567.03	567.16
S	319+19.94	-54.00'	566.99	567.06
CL. W. BRG. PIER 2	319+29.77	-54.00'	566.94	566.96
CL. PIER 2	319+30.90	-54.00'	566.94	566.96
CL. E. BRG. PIER 2	319+32.02	-54.00'	566.93	566.95
T	319+42.02	-54.00'	566.89	566.94
U	319+52.02	-54.00'	566.84	566.91
V	319+62.02	-54.00'	566.80	566.89
W	319+72.02	-54.00'	566.76	566.85
X	319+82.02	-54.00'	566.71	566.81
Y	319+92.02	-54.00'	566.67	566.76
Z	320+02.02	-54.00'	566.62	566.70
AA	320+12.02	-54.00'	566.58	566.63
CL. BRG. E. ABUT.	320+25.31	-54.00'	566.52	566.54
BK. E. ABUT.	320+27.31	-54.00'	566.51	566.53



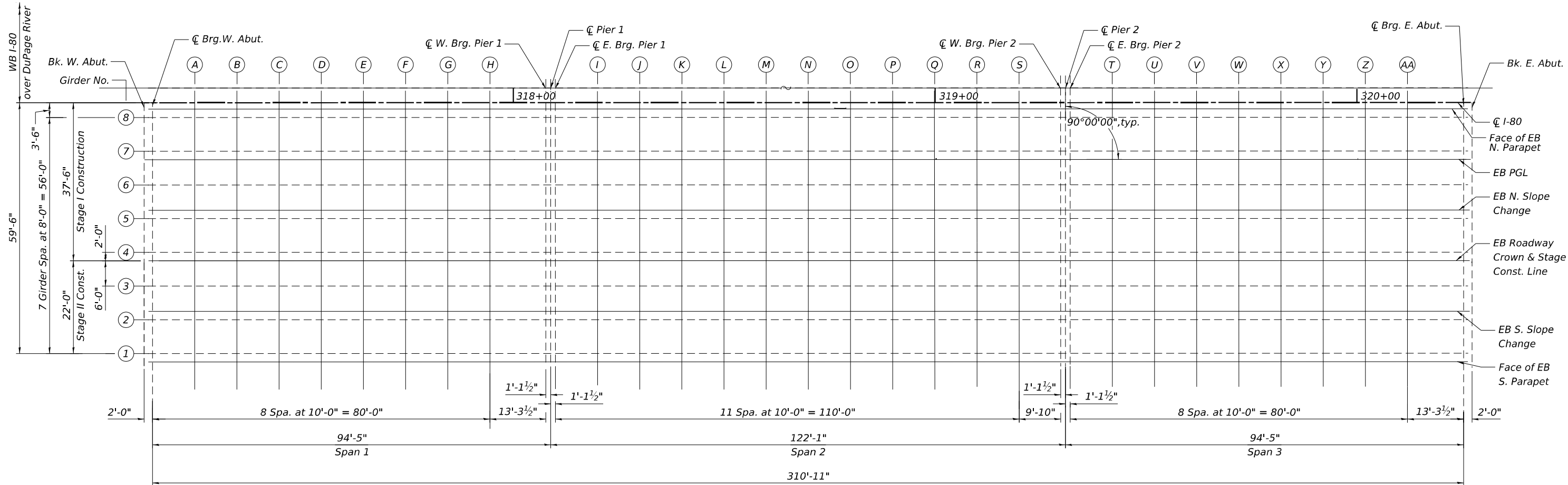
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PLOT DATE	=	CHECKED	-	MI, PG	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB TOP OF SLAB ELEVATION TABLES (SHEET 6 OF 6)
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	557
			CONTRACT NO. 62R28	
		ILLINOIS	FED. AID PROJECT	

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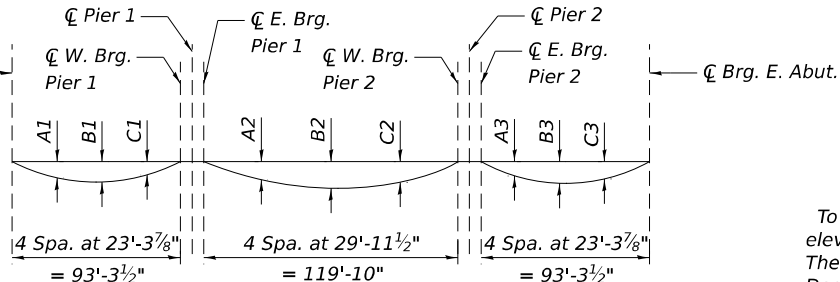


PLAN

Girder #	DEAD LOAD DEFLECTIONS								
	Span 1			Span 2			Span 3		
1-8	A1	B1	C1	A2	B2	C2	A3	B3	C3
	5/8"	1"	5/8"	1 7/8"	2 5/8"	1 7/8"	5/8"	1"	5/8"

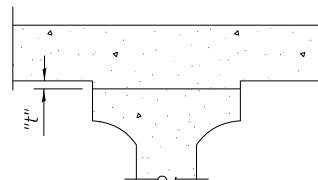
Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections and grinding as shown on Sheets SA-26 thru SA-30.

DEAD LOAD DEFLECTION
(Includes weight of concrete only excluding beams)

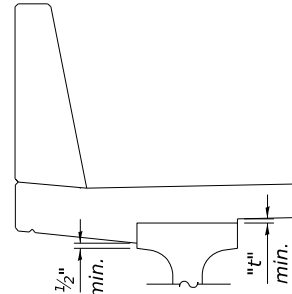


FILLET HEIGHTS

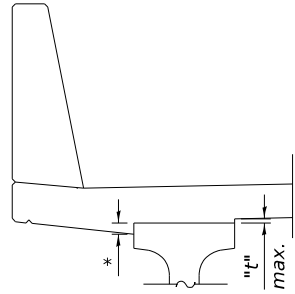
To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection and Grinding" shown on Sheets SA-26 thru SA-30, minus the initial slab thickness prior to grinding, equals the fillet heights "t" above top flange of beams.
The slab is to be ground after curing to achieve smoothness, but the slab is not to be ground to elevations below the "Theoretical Grade Elevations" shown on Sheets SA-26 thru SA-30. For grinding the deck, see Special Provisions.



INTERIOR BEAMS



At Minimum Fillet



At Maximum Fillet

* Variable (not less than 1/2")

EXTERIOR BEAMS



USER NAME	=	DESIGNED	-	LAB	REVISED	-
PLOT SCALE	=	CHECKED	-	MI, PG	REVISED	-
PLOT DATE	=	DRAWN	-	LAB	REVISED	-
		CHECKED	-	MI, PG	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB TOP OF SLAB ELEVATION LAYOUT
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

SHEET SA-25 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	558
CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: pw://transsystems-pw.bentley.com/transscorp-pw1-Hosted/Documents/Projects_2018/CH401/401180022/01-Structec/CAD/ML-04_62R28/04-Sheets/04-Structures/0998312_ML-04-026-EB_Top of Slab Elevation Tables (Sheet_1 of 5).dgn

FACE OF EB S. PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	48.00'	568.03	568.05
CL. BRG. W. ABUT.	317+14.40	48.00'	568.02	568.04
A	317+24.40	48.00'	567.98	568.02
B	317+34.40	48.00'	567.93	568.00
C	317+44.40	48.00'	567.89	567.98
D	317+54.40	48.00'	567.84	567.94
E	317+64.40	48.00'	567.80	567.90
F	317+74.40	48.00'	567.75	567.85
G	317+84.40	48.00'	567.71	567.79
H	317+94.40	48.00'	567.67	567.72
CL. W. BRG. PIER 1	318+07.69	48.00'	567.61	567.63
CL. PIER 1	318+08.81	48.00'	567.60	567.62
CL. E. BRG. PIER 1	318+09.94	48.00'	567.60	567.62
I	318+19.94	48.00'	567.55	567.63
J	318+29.94	48.00'	567.51	567.64
K	318+39.94	48.00'	567.46	567.64
L	318+49.94	48.00'	567.42	567.63
M	318+59.94	48.00'	567.37	567.61
N	318+69.94	48.00'	567.33	567.57
O	318+79.94	48.00'	567.29	567.52
P	318+89.94	48.00'	567.24	567.45
Q	318+99.94	48.00'	567.20	567.37
R	319+09.94	48.00'	567.15	567.28
S	319+19.94	48.00'	567.11	567.18
CL. W. BRG. PIER 2	319+29.77	48.00'	567.06	567.08
CL. PIER 2	319+30.90	48.00'	567.06	567.08
CL. E. BRG. PIER 2	319+32.02	48.00'	567.05	567.07
T	319+42.02	48.00'	567.01	567.06
U	319+52.02	48.00'	566.96	567.03
V	319+62.02	48.00'	566.92	567.01
W	319+72.02	48.00'	566.88	566.97
X	319+82.02	48.00'	566.83	566.93
Y	319+92.02	48.00'	566.79	566.88
Z	320+02.02	48.00'	566.74	566.82
AA	320+12.02	48.00'	566.70	566.75
CL. BRG. E. ABUT.	320+25.31	48.00'	566.64	566.66
BK. E. ABUT.	320+27.31	48.00'	566.63	566.65

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	46.00'	568.07	568.09
CL. BRG. W. ABUT.	317+14.40	46.00'	568.06	568.08
A	317+24.40	46.00'	568.02	568.06
B	317+34.40	46.00'	567.97	568.04
C	317+44.40	46.00'	567.93	568.02
D	317+54.40	46.00'	567.88	567.98
E	317+64.40	46.00'	567.84	567.94
F	317+74.40	46.00'	567.79	567.89
G	317+84.40	46.00'	567.75	567.83
H	317+94.40	46.00'	567.71	567.76
CL. W. BRG. PIER 1	318+07.69	46.00'	567.65	567.67
CL. PIER 1	318+08.81	46.00'	567.64	567.66
CL. E. BRG. PIER 1	318+09.94	46.00'	567.64	567.66
I	318+19.94	46.00'	567.59	567.67
J	318+29.94	46.00'	567.55	567.68
K	318+39.94	46.00'	567.50	567.68
L	318+49.94	46.00'	567.46	567.67
M	318+59.94	46.00'	567.41	567.65
N	318+69.94	46.00'	567.37	567.61
O	318+79.94	46.00'	567.33	567.56
P	318+89.94	46.00'	567.28	567.49
Q	318+99.94	46.00'	567.24	567.41
R	319+09.94	46.00'	567.19	567.32
S	319+19.94	46.00'	567.15	567.22
CL. W. BRG. PIER 2	319+29.77	46.00'	567.10	567.12
CL. PIER 2	319+30.90	46.00'	567.10	567.12
CL. E. BRG. PIER 2	319+32.02	46.00'	567.09	567.11
T	319+42.02	46.00'	567.05	567.10
U	319+52.02	46.00'	567.00	567.07
V	319+62.02	46.00'	566.96	567.05
W	319+72.02	46.00'	566.92	567.01
X	319+82.02	46.00'	566.87	566.97
Y	319+92.02	46.00'	566.83	566.92
Z	320+02.02	46.00'	566.78	566.86
AA	320+12.02	46.00'	566.74	566.79
CL. BRG. E. ABUT.	320+25.31	46.00'	566.68	566.70
BK. E. ABUT.	320+27.31	46.00'	566.67	566.69

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	38.00'	568.23	568.25
CL. BRG. W. ABUT.	317+14.40	38.00'	568.22	568.24
A	317+24.40	38.00'	568.18	568.22
B	317+34.40	38.00'	568.13	568.20
C	317+44.40	38.00'	568.09	568.18
D	317+54.40	38.00'	568.04	568.14
E	317+64.40	38.00'	568.00	568.10
F	317+74.40	38.00'	567.95	568.05
G	317+84.40	38.00'	567.91	567.99
H	317+94.40	38.00'	567.87	567.92
CL. W. BRG. PIER 1	318+07.69	38.00'	567.81	567.83
CL. PIER 1	318+08.81	38.00'	567.80	567.82
CL. E. BRG. PIER 1	318+09.94	38.00'	567.80	567.82
I	318+19.94	38.00'	567.75	567.83
J	318+29.94	38.00'	567.71	567.84
K	318+39.94	38.00'	567.66	567.84
L	318+49.94	38.00'	567.62	567.83
M	318+59.94	38.00'	567.57	567.81
N	318+69.94	38.00'	567.53	567.77
O	318+79.94	38.00'	567.49	567.72
P	318+89.94	38.00'	567.44	567.65
Q	318+99.94	38.00'	567.40	567.57
R	319+09.94	38.00'	567.35	567.48
S	319+19.94	38.00'	567.31	567.38
CL. W. BRG. PIER 2	319+29.77	38.00'	567.26	567.28
CL. PIER 2	319+30.90	38.00'	567.26	567.28
CL. E. BRG. PIER 2	319+32.02	38.00'	567.25	567.27
T	319+42.02	38.00'	567.21	567.26
U	319+52.02	38.00'	567.16	567.23
V	319+62.02	38.00'	567.12	567.21
W	319+72.02	38.00'	567.08	567.17
X	319+82.02	38.00'	567.03	567.13
Y	319+92.02	38.00'	566.99	567.08
Z	320+02.02	38.00'	566.94	567.02
AA	320+12.02	38.00'	566.90	566.95
CL. BRG. E. ABUT.	320+25.31	38.00'	566.84	566.86
BK. E. ABUT.	320+27.31	38.00'	566.83	566.85



USER NAME =	DESIGNED - LAB	REVISED -
	CHECKED - MI, PG	REVISED -
PLOT SCALE =	DRAWN - LAB	REVISED -
PLOT DATE =	CHECKED - MI, PG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB TOP OF SLAB ELEVATION TABLES (SHEET 1 OF 5)
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	559
		CONTRACT NO. 62R28		
		ILLINOIS	FED. AID PROJECT	

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EB S. SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	36.00'	568.27	568.29
CL. BRG. W. ABUT.	317+14.40	36.00'	568.26	568.28
A	317+24.40	36.00'	568.22	568.26
B	317+34.40	36.00'	568.17	568.24
C	317+44.40	36.00'	568.13	568.22
D	317+54.40	36.00'	568.08	568.18
E	317+64.40	36.00'	568.04	568.14
F	317+74.40	36.00'	567.99	568.09
G	317+84.40	36.00'	567.95	568.03
H	317+94.40	36.00'	567.91	567.96
CL. W. BRG. PIER 1	318+07.69	36.00'	567.85	567.87
CL. PIER 1	318+08.81	36.00'	567.84	567.86
CL. E. BRG. PIER 1	318+09.94	36.00'	567.84	567.86
I	318+19.94	36.00'	567.79	567.87
J	318+29.94	36.00'	567.75	567.88
K	318+39.94	36.00'	567.70	567.88
L	318+49.94	36.00'	567.66	567.87
M	318+59.94	36.00'	567.61	567.85
N	318+69.94	36.00'	567.57	567.81
O	318+79.94	36.00'	567.53	567.76
P	318+89.94	36.00'	567.48	567.69
Q	318+99.94	36.00'	567.44	567.61
R	319+09.94	36.00'	567.39	567.52
S	319+19.94	36.00'	567.35	567.42
CL. W. BRG. PIER 2	319+29.77	36.00'	567.30	567.32
CL. PIER 2	319+30.90	36.00'	567.30	567.32
CL. E. BRG. PIER 2	319+32.02	36.00'	567.29	567.31
T	319+42.02	36.00'	567.25	567.30
U	319+52.02	36.00'	567.20	567.27
V	319+62.02	36.00'	567.16	567.25
W	319+72.02	36.00'	567.12	567.21
X	319+82.02	36.00'	567.07	567.17
Y	319+92.02	36.00'	567.03	567.12
Z	320+02.02	36.00'	566.98	567.06
AA	320+12.02	36.00'	566.94	566.99
CL. BRG. E. ABUT.	320+25.31	36.00'	566.88	566.90
BK. E. ABUT.	320+27.31	36.00'	566.87	566.89

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	30.00'	568.36	568.38
CL. BRG. W. ABUT.	317+14.40	30.00'	568.35	568.37
A	317+24.40	30.00'	568.31	568.35
B	317+34.40	30.00'	568.26	568.33
C	317+44.40	30.00'	568.22	568.31
D	317+54.40	30.00'	568.17	568.27
E	317+64.40	30.00'	568.13	568.23
F	317+74.40	30.00'	568.08	568.18
G	317+84.40	30.00'	568.04	568.12
H	317+94.40	30.00'	568.00	568.05
CL. W. BRG. PIER 1	318+07.69	30.00'	567.94	567.96
CL. PIER 1	318+08.81	30.00'	567.93	567.95
CL. E. BRG. PIER 1	318+09.94	30.00'	567.93	567.95
I	318+19.94	30.00'	567.88	567.96
J	318+29.94	30.00'	567.84	567.97
K	318+39.94	30.00'	567.79	567.97
L	318+49.94	30.00'	567.75	567.96
M	318+59.94	30.00'	567.70	567.94
N	318+69.94	30.00'	567.66	567.90
O	318+79.94	30.00'	567.62	567.85
P	318+89.94	30.00'	567.57	567.78
Q	318+99.94	30.00'	567.53	567.70
R	319+09.94	30.00'	567.48	567.61
S	319+19.94	30.00'	567.44	567.51
CL. W. BRG. PIER 2	319+29.77	30.00'	567.39	567.41
CL. PIER 2	319+30.90	30.00'	567.39	567.41
CL. E. BRG. PIER 2	319+32.02	30.00'	567.38	567.40
T	319+42.02	30.00'	567.34	567.39
U	319+52.02	30.00'	567.29	567.36
V	319+62.02	30.00'	567.25	567.34
W	319+72.02	30.00'	567.21	567.30
X	319+82.02	30.00'	567.16	567.26
Y	319+92.02	30.00'	567.12	567.21
Z	320+02.02	30.00'	567.07	567.15
AA	320+12.02	30.00'	567.03	567.08
CL. BRG. E. ABUT.	320+25.31	30.00'	566.97	566.99
BK. E. ABUT.	320+27.31	30.00'	566.96	566.98

EB ROADWAY CROWN & STAGE CONST. LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	24.00'	568.45	568.47
CL. BRG. W. ABUT.	317+14.40	24.00'	568.44	568.46
A	317+24.40	24.00'	568.40	568.44
B	317+34.40	24.00'	568.35	568.42
C	317+44.40	24.00'	568.31	568.40
D	317+54.40	24.00'	568.26	568.36
E	317+64.40	24.00'	568.22	568.32
F	317+74.40	24.00'	568.17	568.27
G	317+84.40	24.00'	568.13	568.21
H	317+94.40	24.00'	568.09	568.14
CL. W. BRG. PIER 1	318+07.69	24.00'	568.03	568.05
CL. PIER 1	318+08.81	24.00'	568.02	568.04
CL. E. BRG. PIER 1	318+09.94	24.00'	568.02	568.04
I	318+19.94	24.00'	567.97	568.05
J	318+29.94	24.00'	567.93	568.06
K	318+39.94	24.00'	567.88	568.06
L	318+49.94	24.00'	567.84	568.05
M	318+59.94	24.00'	567.79	568.03
N	318+69.94	24.00'	567.75	567.99
O	318+79.94	24.00'	567.71	567.94
P	318+89.94	24.00'	567.66	567.87
Q	318+99.94	24.00'	567.62	567.79
R	319+09.94	24.00'	567.57	567.70
S	319+19.94	24.00'	567.53	567.60
CL. W. BRG. PIER 2	319+29.77	24.00'	567.48	567.50
CL. PIER 2	319+30.90	24.00'	567.48	567.50
CL. E. BRG. PIER 2	319+32.02	24.00'	567.47	567.49
T	319+42.02	24.00'	567.43	567.48
U	319+52.02	24.00'	567.38	567.45
V	319+62.02	24.00'	567.34	567.43
W	319+72.02	24.00'	567.30	567.39
X	319+82.02	24.00'	567.25	567.35
Y	319+92.02	24.00'	567.21	567.30
Z	320+02.02	24.00'	567.16	567.24
AA	320+12.02	24.00'	567.12	567.17
CL. BRG. E. ABUT.	320+25.31	24.00'	567.06	567.08
BK. E. ABUT.	320+27.31	24.00'	567.05	567.07



USER NAME	=	DESIGNED	-	LAB	REVISED	-
		CHECKED	-	MI, PG	REVISED	-
PLOT SCALE	=	DRAWN	-	LAB	REVISED	-
PLOT DATE	=	CHECKED	-	MI, PG	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB TOP OF SLAB ELEVATION TABLES (SHEET 2 OF 5)
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	560
		CONTRACT NO. 62R28		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: pw://transsystems-pw.bentley.com/transscorp-pw1-Hosted/Documents/Projects_2018/CH401/401180022/01-Stantec/CAD/ML-04_62R28/04-Sheets/04-Structures/0998312-MI-04-028-EB_Top of Slab Elevation Tables (Sheet 3 of 5).dgn

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	22.00'	568.42	568.44
CL. BRG. W. ABUT.	317+14.40	22.00'	568.41	568.43
A	317+24.40	22.00'	568.37	568.41
B	317+34.40	22.00'	568.32	568.39
C	317+44.40	22.00'	568.28	568.37
D	317+54.40	22.00'	568.23	568.33
E	317+64.40	22.00'	568.19	568.29
F	317+74.40	22.00'	568.14	568.24
G	317+84.40	22.00'	568.10	568.18
H	317+94.40	22.00'	568.06	568.11
CL. W. BRG. PIER 1	318+07.69	22.00'	568.00	568.02
CL. PIER 1	318+08.81	22.00'	567.99	568.01
CL. E. BRG. PIER 1	318+09.94	22.00'	567.99	568.01
I	318+19.94	22.00'	567.94	568.02
J	318+29.94	22.00'	567.90	568.03
K	318+39.94	22.00'	567.85	568.03
L	318+49.94	22.00'	567.81	568.02
M	318+59.94	22.00'	567.76	568.00
N	318+69.94	22.00'	567.72	567.96
O	318+79.94	22.00'	567.68	567.91
P	318+89.94	22.00'	567.63	567.84
Q	318+99.94	22.00'	567.59	567.76
R	319+09.94	22.00'	567.54	567.67
S	319+19.94	22.00'	567.50	567.57
CL. W. BRG. PIER 2	319+29.77	22.00'	567.45	567.47
CL. PIER 2	319+30.90	22.00'	567.45	567.47
CL. E. BRG. PIER 2	319+32.02	22.00'	567.44	567.46
T	319+42.02	22.00'	567.40	567.45
U	319+52.02	22.00'	567.35	567.42
V	319+62.02	22.00'	567.31	567.40
W	319+72.02	22.00'	567.27	567.36
X	319+82.02	22.00'	567.22	567.32
Y	319+92.02	22.00'	567.18	567.27
Z	320+02.02	22.00'	567.13	567.21
AA	320+12.02	22.00'	567.09	567.14
CL. BRG. E. ABUT.	320+25.31	22.00'	567.03	567.05
BK. E. ABUT.	320+27.31	22.00'	567.02	567.04

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	14.00'	568.30	568.32
CL. BRG. W. ABUT.	317+14.40	14.00'	568.29	568.31
A	317+24.40	14.00'	568.25	568.29
B	317+34.40	14.00'	568.20	568.27
C	317+44.40	14.00'	568.16	568.25
D	317+54.40	14.00'	568.11	568.21
E	317+64.40	14.00'	568.07	568.17
F	317+74.40	14.00'	568.02	568.12
G	317+84.40	14.00'	567.98	568.06
H	317+94.40	14.00'	567.94	567.99
CL. W. BRG. PIER 1	318+07.69	14.00'	567.88	567.90
CL. PIER 1	318+08.81	14.00'	567.87	567.89
CL. E. BRG. PIER 1	318+09.94	14.00'	567.87	567.89
I	318+19.94	14.00'	567.82	567.90
J	318+29.94	14.00'	567.78	567.91
K	318+39.94	14.00'	567.73	567.91
L	318+49.94	14.00'	567.69	567.90
M	318+59.94	14.00'	567.64	567.88
N	318+69.94	14.00'	567.60	567.84
O	318+79.94	14.00'	567.56	567.79
P	318+89.94	14.00'	567.51	567.72
Q	318+99.94	14.00'	567.47	567.64
R	319+09.94	14.00'	567.42	567.55
S	319+19.94	14.00'	567.38	567.45
CL. W. BRG. PIER 2	319+29.77	14.00'	567.33	567.35
CL. PIER 2	319+30.90	14.00'	567.33	567.35
CL. E. BRG. PIER 2	319+32.02	14.00'	567.32	567.34
T	319+42.02	14.00'	567.28	567.33
U	319+52.02	14.00'	567.23	567.30
V	319+62.02	14.00'	567.19	567.28
W	319+72.02	14.00'	567.15	567.24
X	319+82.02	14.00'	567.10	567.20
Y	319+92.02	14.00'	567.06	567.15
Z	320+02.02	14.00'	567.01	567.09
AA	320+12.02	14.00'	566.97	567.02
CL. BRG. E. ABUT.	320+25.31	14.00'	566.91	566.93
BK. E. ABUT.	320+27.31	14.00'	566.90	566.92

EB N. SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	12.00'	568.27	568.29
CL. BRG. W. ABUT.	317+14.40	12.00'	568.26	568.28
A	317+24.40	12.00'	568.22	568.26
B	317+34.40	12.00'	568.17	568.24
C	317+44.40	12.00'	568.13	568.22
D	317+54.40	12.00'	568.08	568.18
E	317+64.40	12.00'	568.04	568.14
F	317+74.40	12.00'	567.99	568.09
G	317+84.40	12.00'	567.95	568.03
H	317+94.40	12.00'	567.91	567.96
CL. W. BRG. PIER 1	318+07.69	12.00'	567.85	567.87
CL. PIER 1	318+08.81	12.00'	567.84	567.86
CL. E. BRG. PIER 1	318+09.94	12.00'	567.84	567.86
I	318+19.94	12.00'	567.79	567.87
J	318+29.94	12.00'	567.75	567.88
K	318+39.94	12.00'	567.70	567.88
L	318+49.94	12.00'	567.66	567.87
M	318+59.94	12.00'	567.61	567.85
N	318+69.94	12.00'	567.57	567.81
O	318+79.94	12.00'	567.53	567.76
P	318+89.94	12.00'	567.48	567.69
Q	318+99.94	12.00'	567.44	567.61
R	319+09.94	12.00'	567.39	567.52
S	319+19.94	12.00'	567.35	567.42
CL. W. BRG. PIER 2	319+29.77	12.00'	567.30	567.32
CL. PIER 2	319+30.90	12.00'	567.30	567.32
CL. E. BRG. PIER 2	319+32.02	12.00'	567.29	567.31
T	319+42.02	12.00'	567.25	567.30
U	319+52.02	12.00'	567.20	567.27
V	319+62.02	12.00'	567.16	567.25
W	319+72.02	12.00'	567.12	567.21
X	319+82.02	12.00'	567.07	567.17
Y	319+92.02	12.00'	567.03	567.12
Z	320+02.02	12.00'	566.98	567.06
AA	320+12.02	12.00'	566.94	566.99
CL. BRG. E. ABUT.	320+25.31	12.00'	566.88	566.90
BK. E. ABUT.	320+27.31	12.00'	566.87	566.89



USER NAME	=	DESIGNED	-	LAB	REVISED	-
		CHECKED	-	MI, PG	REVISED	-
PLOT SCALE	=	DRAWN	-	LAB	REVISED	-
PLOT DATE	=	CHECKED	-	MI, PG	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB TOP OF SLAB ELEVATION TABLES (SHEET 3 OF 5)
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	561
		CONTRACT NO. 62R28		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: pw://transsystems-pw.bentley.com/transscorp-pw1-hosted/Documents/Projects_2018/CH401/401180022/01-Stantec/CAD/ML-04_62R28/04-Sheets/04-Structures/0998312_0998313-ML-04-029-EB_Top of Slab Elevation Tables (Sheet 4 of 5).dgn

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	6.00'	568.15	568.17
CL. BRG. W. ABUT.	317+14.40	6.00'	568.14	568.16
A	317+24.40	6.00'	568.10	568.14
B	317+34.40	6.00'	568.05	568.12
C	317+44.40	6.00'	568.01	568.10
D	317+54.40	6.00'	567.96	568.06
E	317+64.40	6.00'	567.92	568.02
F	317+74.40	6.00'	567.87	567.97
G	317+84.40	6.00'	567.83	567.91
H	317+94.40	6.00'	567.79	567.84
CL. W. BRG. PIER 1	318+07.69	6.00'	567.73	567.75
CL. PIER 1	318+08.81	6.00'	567.72	567.74
CL. E. BRG. PIER 1	318+09.94	6.00'	567.72	567.74
I	318+19.94	6.00'	567.67	567.75
J	318+29.94	6.00'	567.63	567.76
K	318+39.94	6.00'	567.58	567.76
L	318+49.94	6.00'	567.54	567.75
M	318+59.94	6.00'	567.49	567.73
N	318+69.94	6.00'	567.45	567.69
O	318+79.94	6.00'	567.41	567.64
P	318+89.94	6.00'	567.36	567.57
Q	318+99.94	6.00'	567.32	567.49
R	319+09.94	6.00'	567.27	567.40
S	319+19.94	6.00'	567.23	567.30
CL. W. BRG. PIER 2	319+29.77	6.00'	567.18	567.20
CL. PIER 2	319+30.90	6.00'	567.18	567.20
CL. E. BRG. PIER 2	319+32.02	6.00'	567.17	567.19
T	319+42.02	6.00'	567.13	567.18
U	319+52.02	6.00'	567.08	567.15
V	319+62.02	6.00'	567.04	567.13
W	319+72.02	6.00'	567.00	567.09
X	319+82.02	6.00'	566.95	567.05
Y	319+92.02	6.00'	566.91	567.00
Z	320+02.02	6.00'	566.86	566.94
AA	320+12.02	6.00'	566.82	566.87
CL. BRG. E. ABUT.	320+25.31	6.00'	566.76	566.78
BK. E. ABUT.	320+27.31	6.00'	566.75	566.77

PGL EB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	0.00'	568.03	568.05
CL. BRG. W. ABUT.	317+14.40	0.00'	568.02	568.04
A	317+24.40	0.00'	567.98	568.02
B	317+34.40	0.00'	567.93	568.00
C	317+44.40	0.00'	567.89	567.98
D	317+54.40	0.00'	567.84	567.94
E	317+64.40	0.00'	567.80	567.90
F	317+74.40	0.00'	567.75	567.85
G	317+84.40	0.00'	567.71	567.79
H	317+94.40	0.00'	567.67	567.72
CL. W. BRG. PIER 1	318+07.69	0.00'	567.61	567.63
CL. PIER 1	318+08.81	0.00'	567.60	567.62
CL. E. BRG. PIER 1	318+09.94	0.00'	567.60	567.62
I	318+19.94	0.00'	567.55	567.63
J	318+29.94	0.00'	567.51	567.64
K	318+39.94	0.00'	567.46	567.64
L	318+49.94	0.00'	567.42	567.63
M	318+59.94	0.00'	567.37	567.61
N	318+69.94	0.00'	567.33	567.57
O	318+79.94	0.00'	567.29	567.52
P	318+89.94	0.00'	567.24	567.45
Q	318+99.94	0.00'	567.20	567.37
R	319+09.94	0.00'	567.15	567.28
S	319+19.94	0.00'	567.11	567.18
CL. W. BRG. PIER 2	319+29.77	0.00'	567.06	567.08
CL. PIER 2	319+30.90	0.00'	567.06	567.08
CL. E. BRG. PIER 2	319+32.02	0.00'	567.05	567.07
T	319+42.02	0.00'	567.01	567.06
U	319+52.02	0.00'	566.96	567.03
V	319+62.02	0.00'	566.92	567.01
W	319+72.02	0.00'	566.88	566.97
X	319+82.02	0.00'	566.83	566.93
Y	319+92.02	0.00'	566.79	566.88
Z	320+02.02	0.00'	566.74	566.82
AA	320+12.02	0.00'	566.70	566.75
CL. BRG. E. ABUT.	320+25.31	0.00'	566.64	566.66
BK. E. ABUT.	320+27.31	0.00'	566.63	566.65

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	-2.00'	567.99	568.01
CL. BRG. W. ABUT.	317+14.40	-2.00'	567.98	568.00
A	317+24.40	-2.00'	567.94	567.98
B	317+34.40	-2.00'	567.89	567.96
C	317+44.40	-2.00'	567.85	567.94
D	317+54.40	-2.00'	567.80	567.90
E	317+64.40	-2.00'	567.76	567.86
F	317+74.40	-2.00'	567.71	567.81
G	317+84.40	-2.00'	567.67	567.75
H	317+94.40	-2.00'	567.63	567.68
CL. W. BRG. PIER 1	318+07.69	-2.00'	567.57	567.59
CL. PIER 1	318+08.81	-2.00'	567.56	567.58
CL. E. BRG. PIER 1	318+09.94	-2.00'	567.56	567.58
I	318+19.94	-2.00'	567.51	567.59
J	318+29.94	-2.00'	567.47	567.60
K	318+39.94	-2.00'	567.42	567.60
L	318+49.94	-2.00'	567.38	567.59
M	318+59.94	-2.00'	567.33	567.57
N	318+69.94	-2.00'	567.29	567.53
O	318+79.94	-2.00'	567.25	567.48
P	318+89.94	-2.00'	567.20	567.41
Q	318+99.94	-2.00'	567.16	567.33
R	319+09.94	-2.00'	567.11	567.24
S	319+19.94	-2.00'	567.07	567.14
CL. W. BRG. PIER 2	319+29.77	-2.00'	567.02	567.04
CL. PIER 2	319+30.90	-2.00'	567.02	567.04
CL. E. BRG. PIER 2	319+32.02	-2.00'	567.01	567.03
T	319+42.02	-2.00'	566.97	567.02
U	319+52.02	-2.00'	566.92	566.99
V	319+62.02	-2.00'	566.88	566.97
W	319+72.02	-2.00'	566.84	566.93
X	319+82.02	-2.00'	566.79	566.89
Y	319+92.02	-2.00'	566.75	566.84
Z	320+02.02	-2.00'	566.70	566.78
AA	320+12.02	-2.00'	566.66	566.71
CL. BRG. E. ABUT.	320+25.31	-2.00'	566.60	566.62
BK. E. ABUT.	320+27.31	-2.00'	566.59	566.61



USER NAME =	DESIGNED - LAB	REVISED -
	CHECKED - MI, PG	REVISED -
PLOT SCALE =	DRAWN - LAB	REVISED -
PLOT DATE =	CHECKED - MI, PG	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB TOP OF SLAB ELEVATION TABLES (SHEET 4 OF 5)
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	562
		CONTRACT NO. 62R28		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: pw://transystems-pw.bentley.com/transystems-pw1-Hosted/Documents/Projects_2018/CH401/401180022/01-Structures/0998312_ML-04-030-EB_Top of Slab Elevation Tables (Sheet 5 of 5).dgn

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	-10.00'	567.83	567.85
CL. BRG. W. ABUT.	317+14.40	-10.00'	567.82	567.84
A	317+24.40	-10.00'	567.78	567.82
B	317+34.40	-10.00'	567.73	567.80
C	317+44.40	-10.00'	567.69	567.78
D	317+54.40	-10.00'	567.64	567.74
E	317+64.40	-10.00'	567.60	567.70
F	317+74.40	-10.00'	567.55	567.65
G	317+84.40	-10.00'	567.51	567.59
H	317+94.40	-10.00'	567.47	567.52
CL. W. BRG. PIER 1	318+07.69	-10.00'	567.41	567.43
CL. PIER 1	318+08.81	-10.00'	567.40	567.42
CL. E. BRG. PIER 1	318+09.94	-10.00'	567.40	567.42
I	318+19.94	-10.00'	567.35	567.43
J	318+29.94	-10.00'	567.31	567.44
K	318+39.94	-10.00'	567.26	567.44
L	318+49.94	-10.00'	567.22	567.43
M	318+59.94	-10.00'	567.17	567.41
N	318+69.94	-10.00'	567.13	567.37
O	318+79.94	-10.00'	567.09	567.32
P	318+89.94	-10.00'	567.04	567.25
Q	318+99.94	-10.00'	567.00	567.17
R	319+09.94	-10.00'	566.95	567.08
S	319+19.94	-10.00'	566.91	566.98
CL. W. BRG. PIER 2	319+29.77	-10.00'	566.86	566.88
CL. PIER 2	319+30.90	-10.00'	566.86	566.88
CL. E. BRG. PIER 2	319+32.02	-10.00'	566.85	566.87
T	319+42.02	-10.00'	566.81	566.86
U	319+52.02	-10.00'	566.76	566.83
V	319+62.02	-10.00'	566.72	566.81
W	319+72.02	-10.00'	566.68	566.77
X	319+82.02	-10.00'	566.63	566.73
Y	319+92.02	-10.00'	566.59	566.68
Z	320+02.02	-10.00'	566.54	566.62
AA	320+12.02	-10.00'	566.50	566.55
CL. BRG. E. ABUT.	320+25.31	-10.00'	566.44	566.46
BK. E. ABUT.	320+27.31	-10.00'	566.43	566.45

FACE OF EB N. PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection and Grinding
BK. W. ABUT.	317+12.40	-12.00'	567.79	567.81
CL. BRG. W. ABUT.	317+14.40	-12.00'	567.78	567.80
A	317+24.40	-12.00'	567.74	567.78
B	317+34.40	-12.00'	567.69	567.76
C	317+44.40	-12.00'	567.65	567.74
D	317+54.40	-12.00'	567.60	567.70
E	317+64.40	-12.00'	567.56	567.66
F	317+74.40	-12.00'	567.51	567.61
G	317+84.40	-12.00'	567.47	567.55
H	317+94.40	-12.00'	567.43	567.48
CL. W. BRG. PIER 1	318+07.69	-12.00'	567.37	567.39
CL. PIER 1	318+08.81	-12.00'	567.36	567.38
CL. E. BRG. PIER 1	318+09.94	-12.00'	567.36	567.38
I	318+19.94	-12.00'	567.31	567.39
J	318+29.94	-12.00'	567.27	567.40
K	318+39.94	-12.00'	567.22	567.40
L	318+49.94	-12.00'	567.18	567.39
M	318+59.94	-12.00'	567.13	567.37
N	318+69.94	-12.00'	567.09	567.33
O	318+79.94	-12.00'	567.05	567.28
P	318+89.94	-12.00'	567.00	567.21
Q	318+99.94	-12.00'	566.96	567.13
R	319+09.94	-12.00'	566.91	567.04
S	319+19.94	-12.00'	566.87	566.94
CL. W. BRG. PIER 2	319+29.77	-12.00'	566.82	566.84
CL. PIER 2	319+30.90	-12.00'	566.82	566.84
CL. E. BRG. PIER 2	319+32.02	-12.00'	566.81	566.83
T	319+42.02	-12.00'	566.77	566.82
U	319+52.02	-12.00'	566.72	566.79
V	319+62.02	-12.00'	566.68	566.77
W	319+72.02	-12.00'	566.64	566.73
X	319+82.02	-12.00'	566.59	566.69
Y	319+92.02	-12.00'	566.55	566.64
Z	320+02.02	-12.00'	566.50	566.58
AA	320+12.02	-12.00'	566.46	566.51
CL. BRG. E. ABUT.	320+25.31	-12.00'	566.40	566.42
BK. E. ABUT.	320+27.31	-12.00'	566.39	566.41



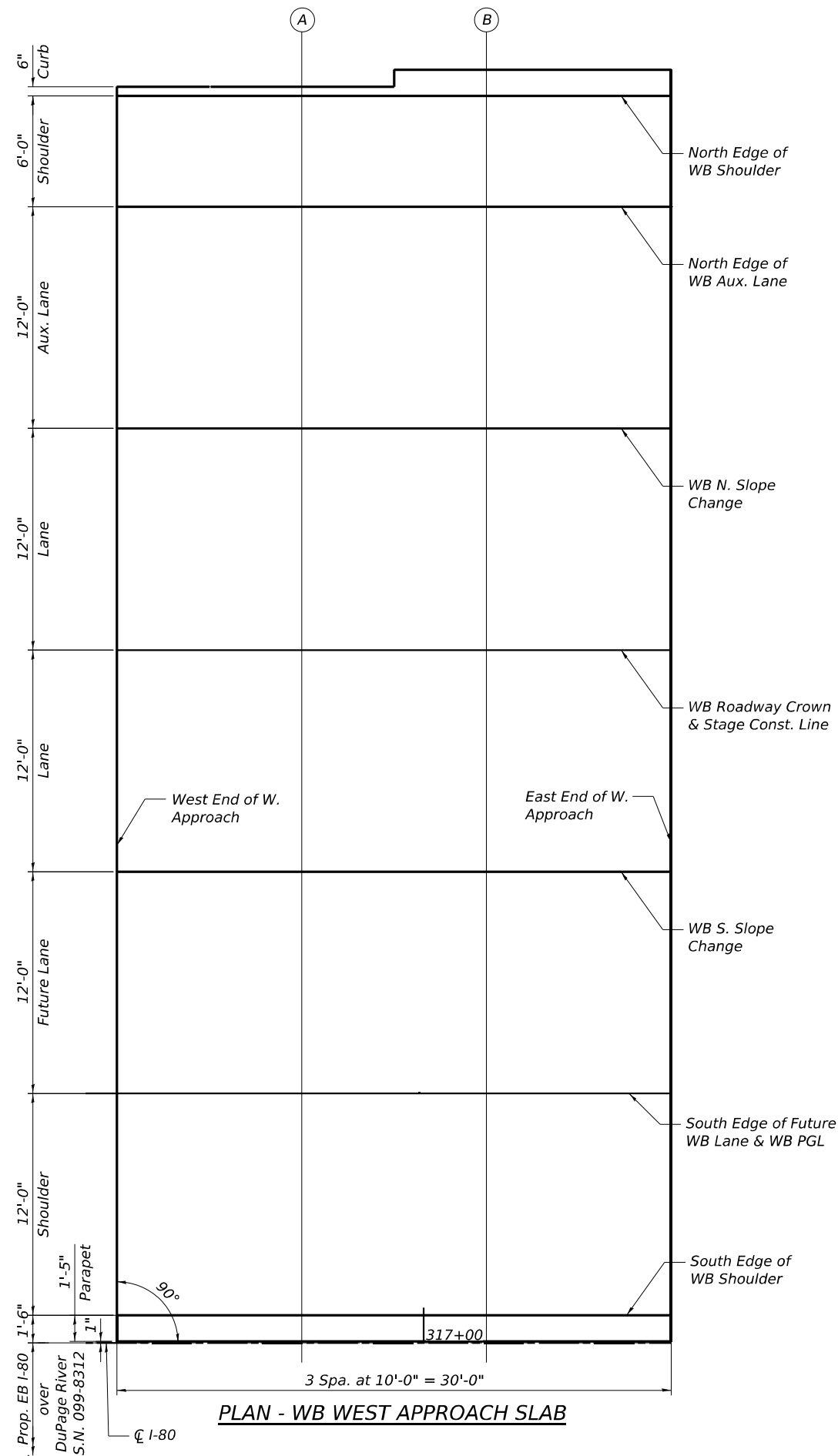
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB TOP OF SLAB ELEVATION TABLES (SHEET 5 OF 5)
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	563
			CONTRACT NO. 62R28	
		ILLINOIS	FED. AID PROJECT	

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NORTH EDGE OF WB SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	316+83.40	-54.00'	568.04	568.06
A	316+93.40	-54.00'	568.00	568.02
B	317+03.40	-54.00'	567.95	567.97
E. End of W. Approach	317+13.40	-54.00'	567.91	567.93

NORTH EDGE OF WB AUX. LANE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	316+83.40	-48.00'	568.16	568.18
A	316+93.40	-48.00'	568.12	568.14
B	317+03.40	-48.00'	568.07	568.09
E. End of W. Approach	317+13.40	-48.00'	568.03	568.05

WB N. SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	316+83.40	-36.00'	568.40	568.42
A	316+93.40	-36.00'	568.36	568.38
B	317+03.40	-36.00'	568.31	568.33
E. End of W. Approach	317+13.40	-36.00'	568.27	568.29

WB ROADWAY CROWN & STAGE CONST. LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	316+83.40	-24.00'	568.58	568.60
A	316+93.40	-24.00'	568.54	568.56
B	317+03.40	-24.00'	568.49	568.51
E. End of W. Approach	317+13.40	-24.00'	568.45	568.47

WB S. SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	316+83.40	-12.00'	568.40	568.42
A	316+93.40	-12.00'	568.36	568.38
B	317+03.40	-12.00'	568.31	568.33
E. End of W. Approach	317+13.40	-12.00'	568.27	568.29

SOUTH EDGE OF FUTURE WB LANE & WB PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	316+83.40	0.00'	568.16	568.18
A	316+93.40	0.00'	568.12	568.14
B	317+03.40	0.00'	568.07	568.09
E. End of W. Approach	317+13.40	0.00'	568.03	568.05

SOUTH EDGE OF WB SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	316+83.40	12.00'	567.92	567.94
A	316+93.40	12.00'	567.88	567.90
B	317+03.40	12.00'	567.83	567.85
E. End of W. Approach	317+13.40	12.00'	567.79	567.81



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB TOP OF W. APPROACH SLAB LAYOUT & TABLES
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

SHEET SA-31 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	564
CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				

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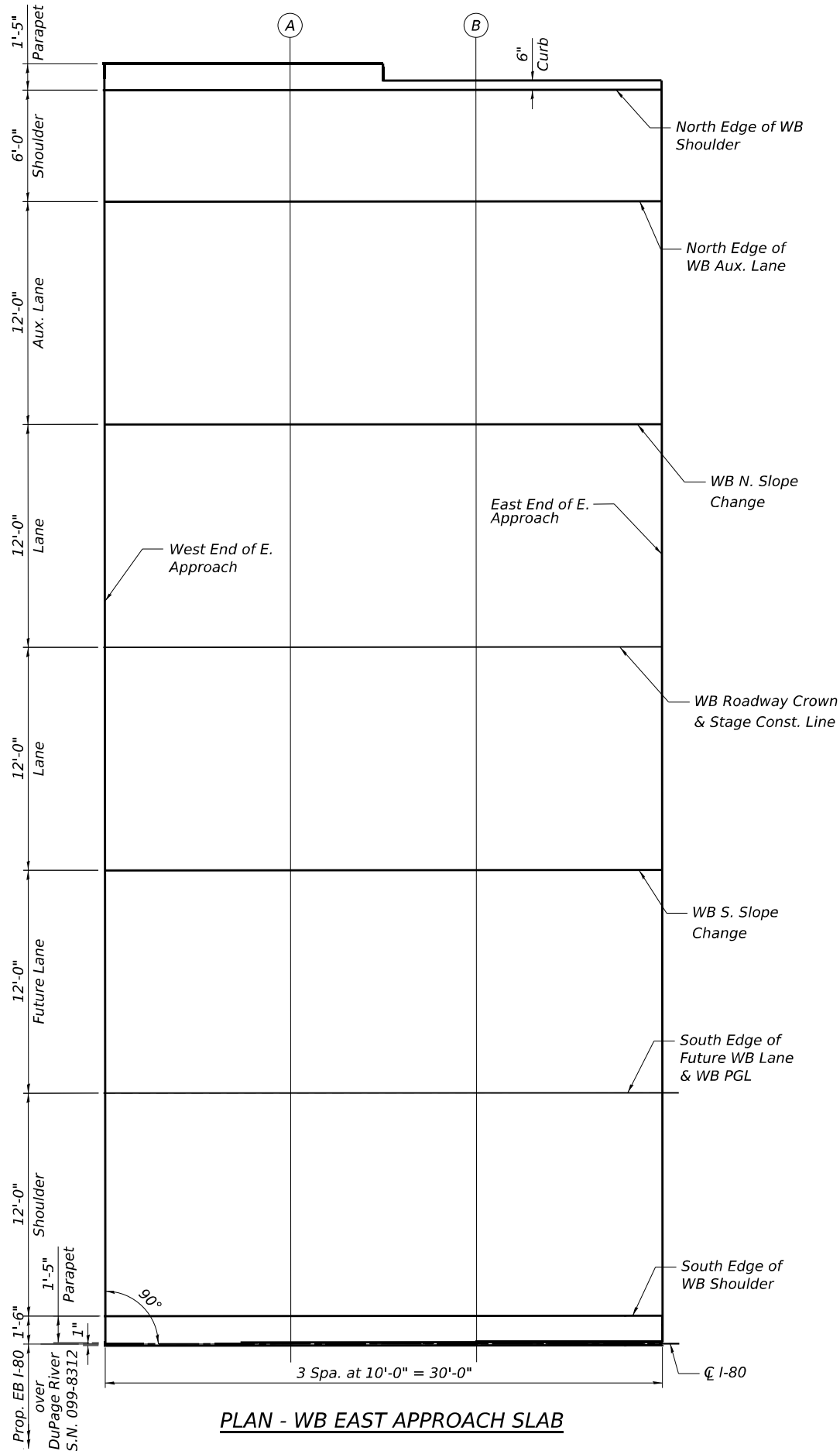


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB TOP OF E. APPROACH SLAB LAYOUT AND TABLES
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	565
CONTRACT NO. 62R28				
ILLINOIS		FED. AID PROJECT		



PLAN - WB EAST APPROACH SLAB

NORTH EDGE OF WB SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	320+26.31	-54.00'	566.51	566.53
A	320+36.31	-54.00'	566.47	566.49
B	320+46.31	-54.00'	566.42	566.45
E. End of E. Approach	320+56.31	-54.00'	566.38	566.40

NORTH EDGE OF WB AUX. LANE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	320+26.31	-48.00'	566.63	566.65
A	320+36.31	-48.00'	566.59	566.61
B	320+46.31	-48.00'	566.54	566.57
E. End of E. Approach	320+56.31	-48.00'	566.50	566.52

WB N. SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	320+26.31	-36.00'	566.87	566.89
A	320+36.31	-36.00'	566.83	566.85
B	320+46.31	-36.00'	566.78	566.81
E. End of E. Approach	320+56.31	-36.00'	566.74	566.76

WB ROADWAY CROWN & STAGE CONST. LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	320+26.31	-24.00'	567.05	567.07
A	320+36.31	-24.00'	567.01	567.03
B	320+46.31	-24.00'	566.96	566.99
E. End of E. Approach	320+56.31	-24.00'	566.92	566.94

WB S. SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	320+26.31	-12.00'	566.87	566.89
A	320+36.31	-12.00'	566.83	566.85
B	320+46.31	-12.00'	566.78	566.81
E. End of E. Approach	320+56.31	-12.00'	566.74	566.76

SOUTH EDGE OF FUTURE WB LANE & WB PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	320+26.31	0.00'	566.63	566.65
A	320+36.31	0.00'	566.59	566.61
B	320+46.31	0.00'	566.54	566.57
E. End of E. Approach	320+56.31	0.00'	566.50	566.52

SOUTH EDGE OF WB SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	320+26.31	12.00'	566.39	566.41
A	320+36.31	12.00'	566.35	566.37
B	320+46.31	12.00'	566.30	566.33
E. End of E. Approach	320+56.31	12.00'	566.26	566.28

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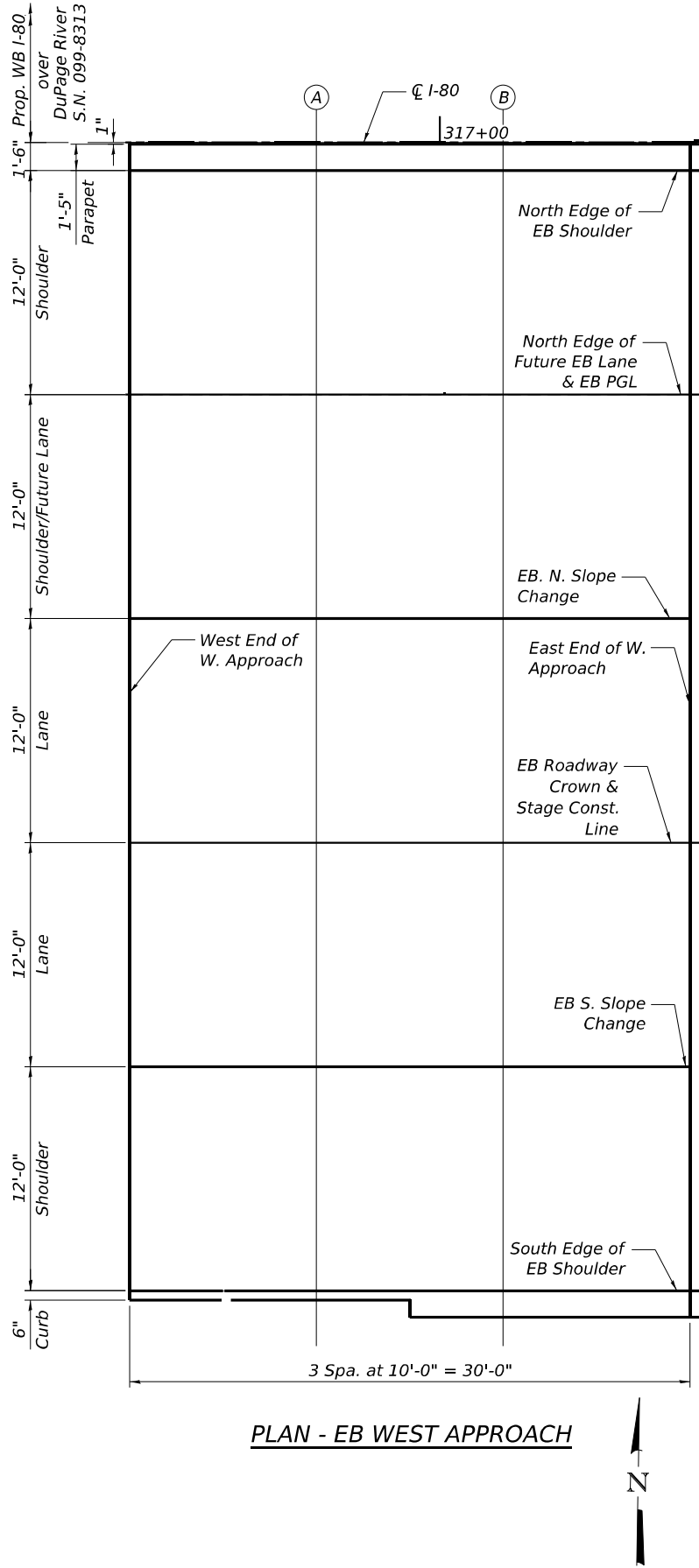
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB TOP OF W. APPROACH SLAB LAYOUT AND TABLES
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

SHEET SA-33 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	566
		CONTRACT NO. 62R28		
		ILLINOIS	FED. AID PROJECT	



PLAN - EB WEST APPROACH

NORTH EDGE OF EB SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	316+83.40	-12.00'	567.92	567.94
A	316+93.40	-12.00'	567.88	567.90
B	317+03.40	-12.00'	567.83	567.85
E. End of W. Approach	317+13.40	-12.00'	567.79	567.81

NORTH EDGE OF FUTURE EB LANE & EB PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	316+83.40	0.00'	568.16	568.18
A	316+93.40	0.00'	568.12	568.14
B	317+03.40	0.00'	568.07	568.09
E. End of W. Approach	317+13.40	0.00'	568.03	568.05

EB N. SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	316+83.40	12.00'	568.40	568.42
A	316+93.40	12.00'	568.36	568.38
B	317+03.40	12.00'	568.31	568.33
E. End of W. Approach	317+13.40	12.00'	568.27	568.29

EB ROADWAY CROWN & STAGE CONST. LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	316+83.40	24.00'	568.58	568.60
A	316+93.40	24.00'	568.54	568.56
B	317+03.40	24.00'	568.49	568.51
E. End of W. Approach	317+13.40	24.00'	568.45	568.47

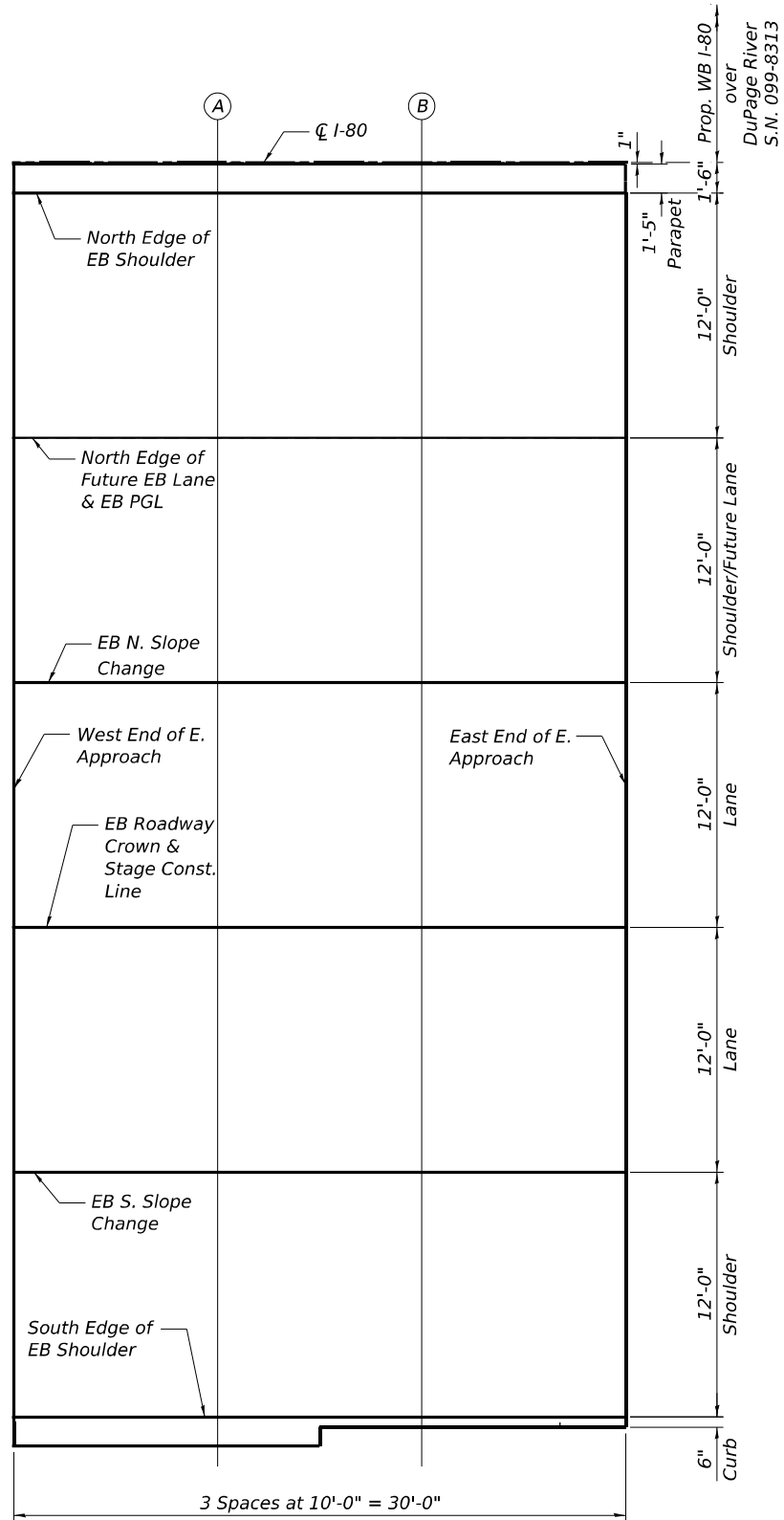
EB S. SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	316+83.40	36.00'	568.40	568.42
A	316+93.40	36.00'	568.36	568.38
B	317+03.40	36.00'	568.31	568.33
E. End of W. Approach	317+13.40	36.00'	568.27	568.29

SOUTH EDGE OF EB SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of W. Approach	316+83.40	48.00'	568.16	568.18
A	316+93.40	48.00'	568.12	568.14
B	317+03.40	48.00'	568.07	568.09
E. End of W. Approach	317+13.40	48.00'	568.03	568.05

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PLAN - EB EAST APPROACH

NORTH EDGE OF EB SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	320+26.31	-12.00'	566.39	566.41
A	320+36.31	-12.00'	566.35	566.37
B	320+46.31	-12.00'	566.30	566.33
E. End of E. Approach	320+56.31	-12.00'	566.26	566.28

NORTH EDGE OF FUTURE EB LANE & EB PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	320+26.31	0.00'	566.63	566.65
A	320+36.31	0.00'	566.59	566.61
B	320+46.31	0.00'	566.54	566.57
E. End of E. Approach	320+56.31	0.00'	566.50	566.52

EB N. SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	320+26.31	12.00'	566.87	566.89
A	320+36.31	12.00'	566.83	566.85
B	320+46.31	12.00'	566.78	566.81
E. End of E. Approach	320+56.31	12.00'	566.74	566.76

EB ROADWAY CROWN & STAGE CONST. LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	320+26.31	24.00'	567.05	567.07
A	320+36.31	24.00'	567.01	567.03
B	320+46.31	24.00'	566.96	566.99
E. End of E. Approach	320+56.31	24.00'	566.92	566.94

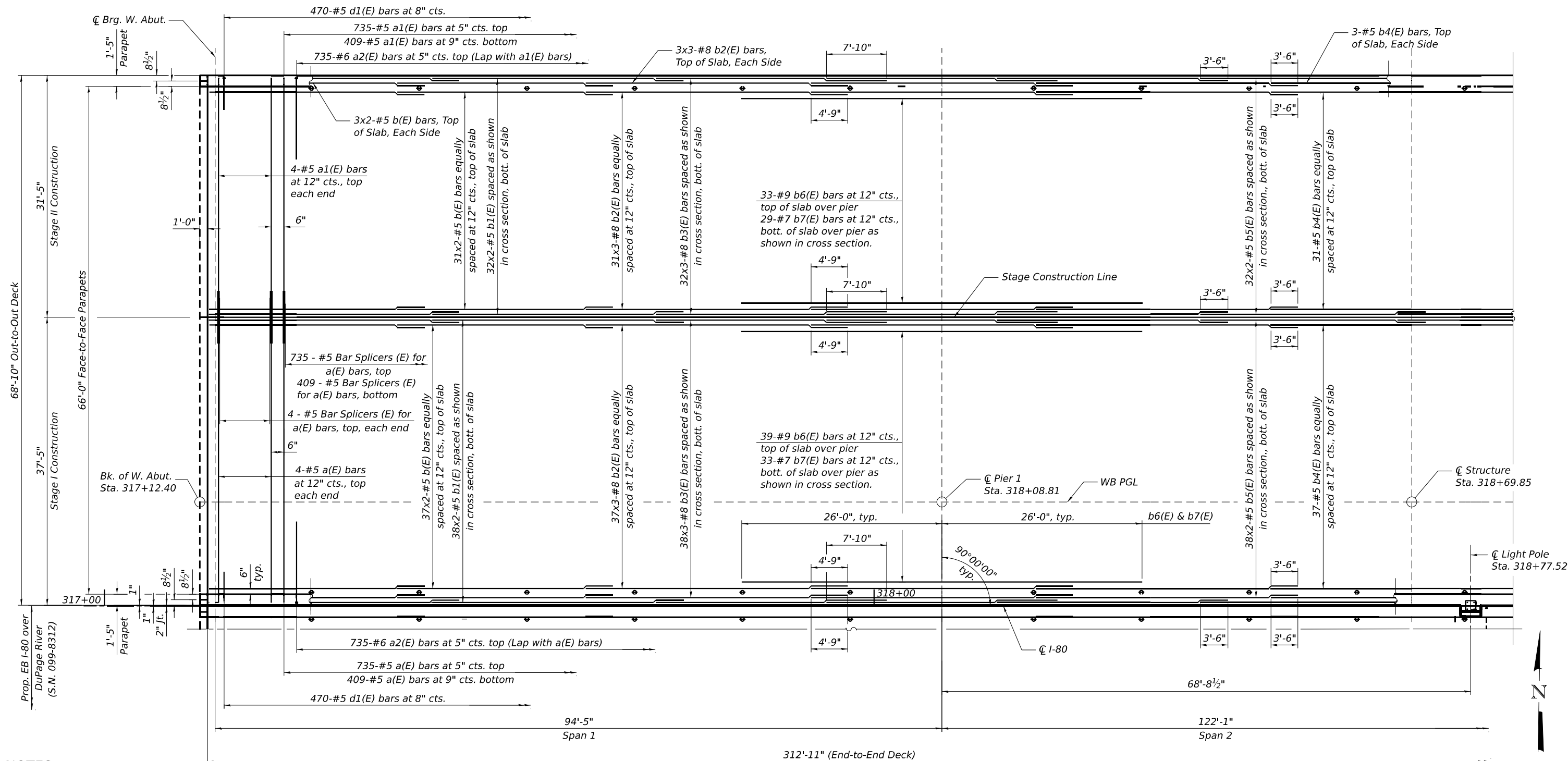
EB S. SLOPE CHANGE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	320+26.31	36.00'	566.87	566.89
A	320+36.31	36.00'	566.83	566.85
B	320+46.31	36.00'	566.78	566.81
E. End of E. Approach	320+56.31	36.00'	566.74	566.76

SOUTH EDGE OF EB SHOULDER

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
W. End of E. Approach	320+26.31	48.00'	566.63	566.65
A	320+36.31	48.00'	566.59	566.61
B	320+46.31	48.00'	566.54	566.57
E. End of E. Approach	320+56.31	48.00'	566.50	566.52

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NOTES:

- Bars indicated thus 31 x 2 - #5 etc. indicates 31 lines of bars with 2 lengths per line.
- For deck cross section, see Sheet SA-36.
- For parapet elevations and reinforcement, see Sheet SA-37.
- For abutment diaphragm elevations and Section A-A, see Sheet SA-39.
- For pier diaphragm details, see Sheet SA-40.
- For deck details, bar diagrams, minimum bar laps and Bill of Material, see Sheet SA-41.
- For bar splicer details, see Sheet SA-88.
- For scupper and floor drain spacing, see Sheet SA-01.
- For reinforcement around scupper, see Sheet SA-41.

PLAN
(Symmetrical About $\bar{C}$ Structure)



USER NAME =	DESIGNED - JMI, JJS	REVISED -
	CHECKED - MI	REVISED -
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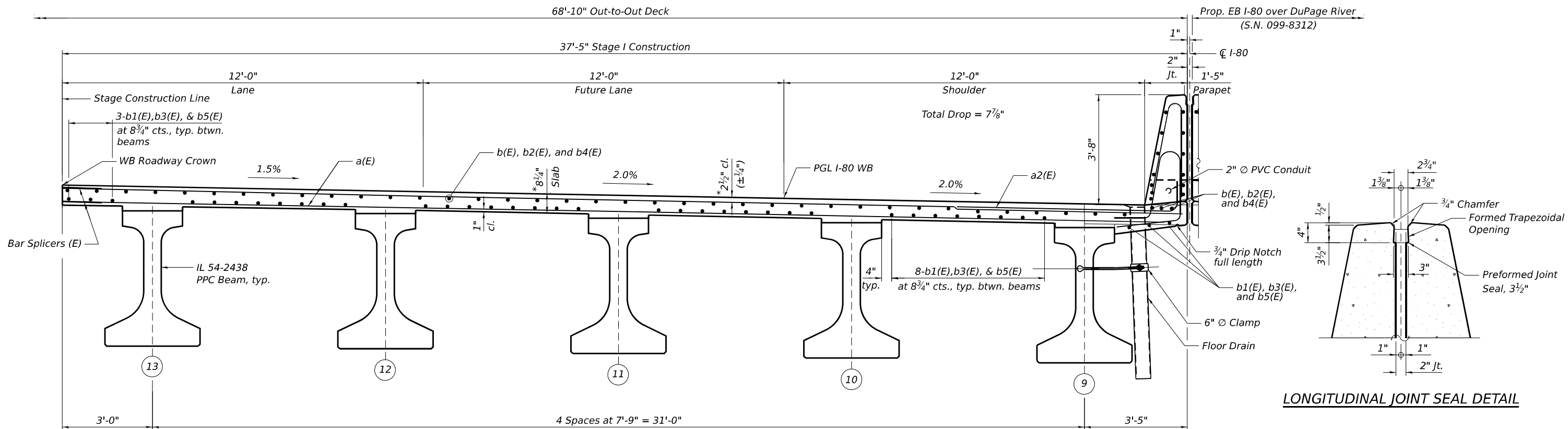
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB DECK PLAN
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

SHEET SA-35 OF SA-98 SHEETS

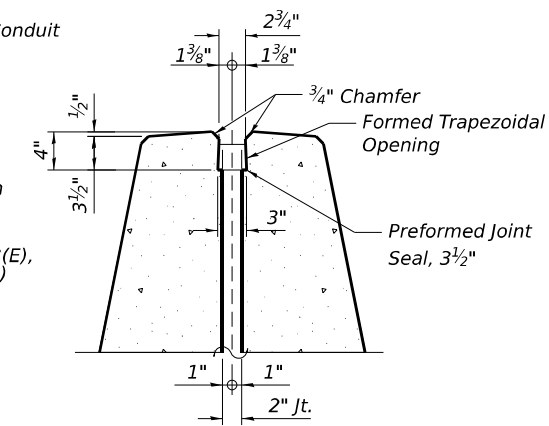
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ILLINOIS FED. AID PROJECT				

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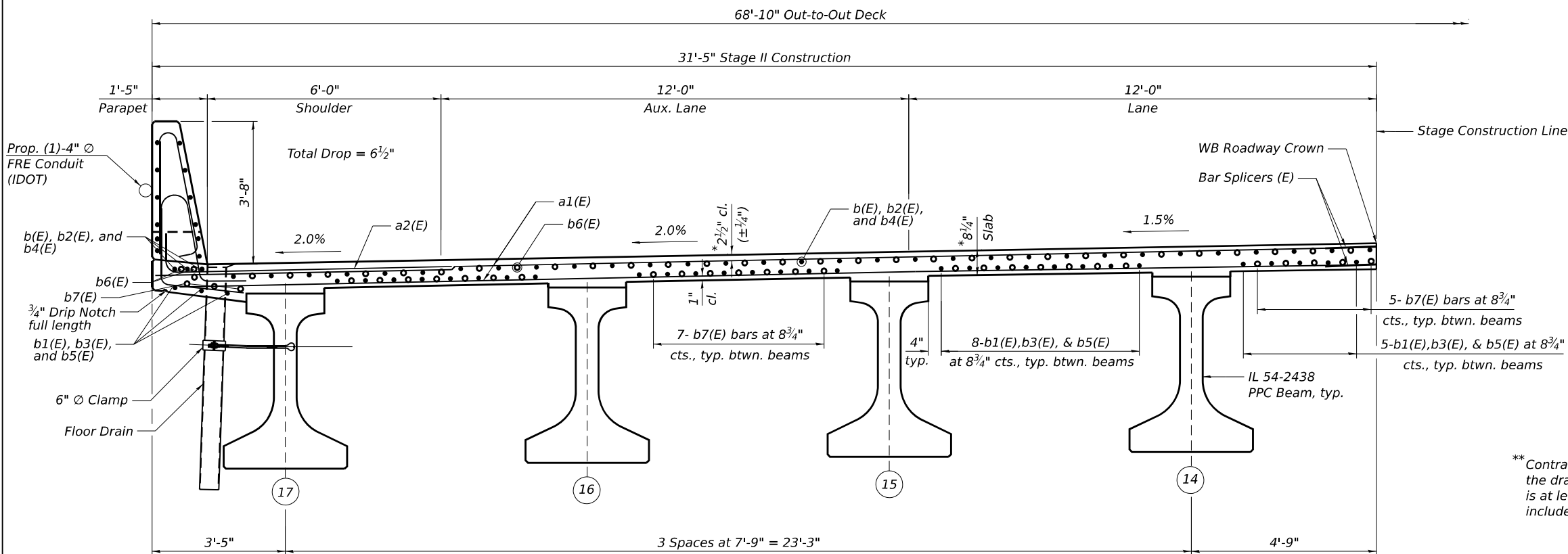


TYPICAL CROSS SECTION (NEAR MIDSPAN)

(Looking East)

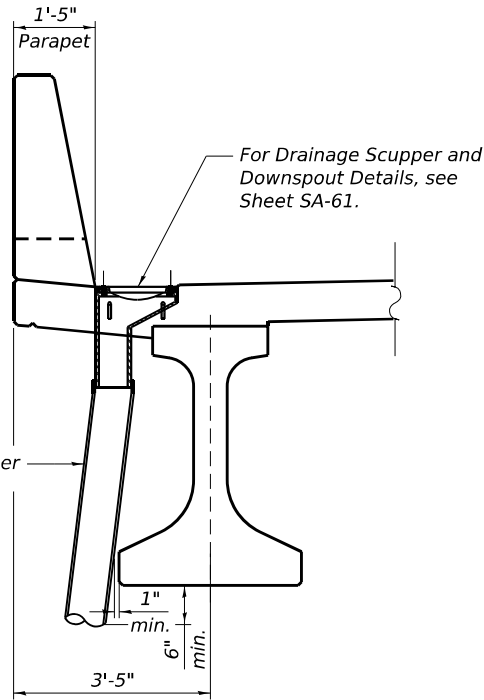


LONGITUDINAL JOINT SEAL DETAIL



TYPICAL CROSS SECTION (NEAR PIER)

(Looking East)



PARTIAL CROSS SECTION AT SCUPPER

** Contractor shall provide appropriate elbows, extensions, and/or connections for the drainage scupper such that the clearance between downspout and PPC beam is at least 1 inch. Cost of additional elbow, extensions, and connections shall be included in the cost of Drainage Scuppers, DS-11.

NOTE:

1. For Notes, see Sheet SA-35.

* Prior to grinding



USER NAME =	DESIGNED - JMI, JJS	REVISED -
PLOT SCALE =	DRAWN - JMI	REVISED -
PLOT DATE =	CHECKED - MI	REVISED -

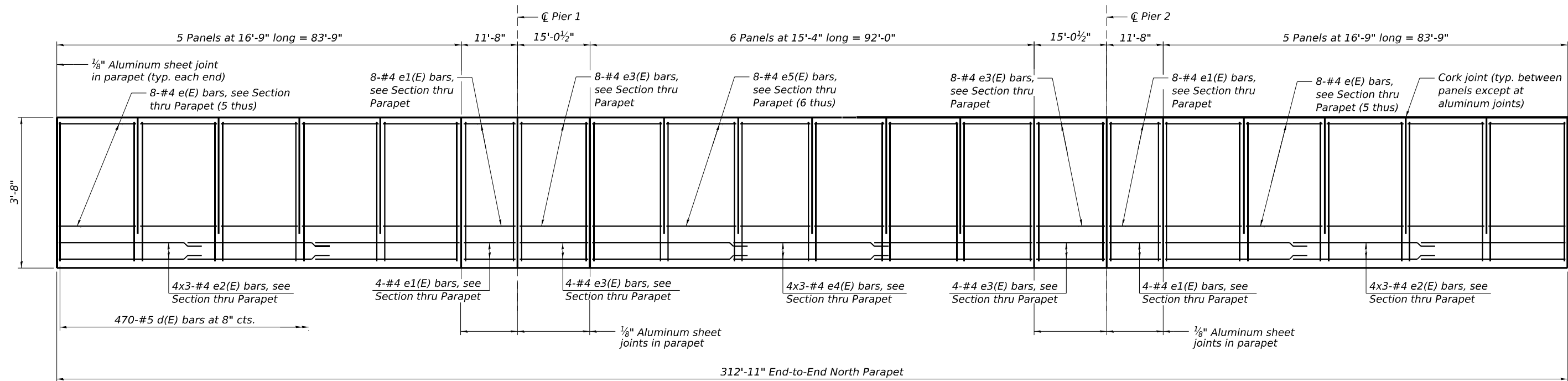
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB DECK CROSS SECTION
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

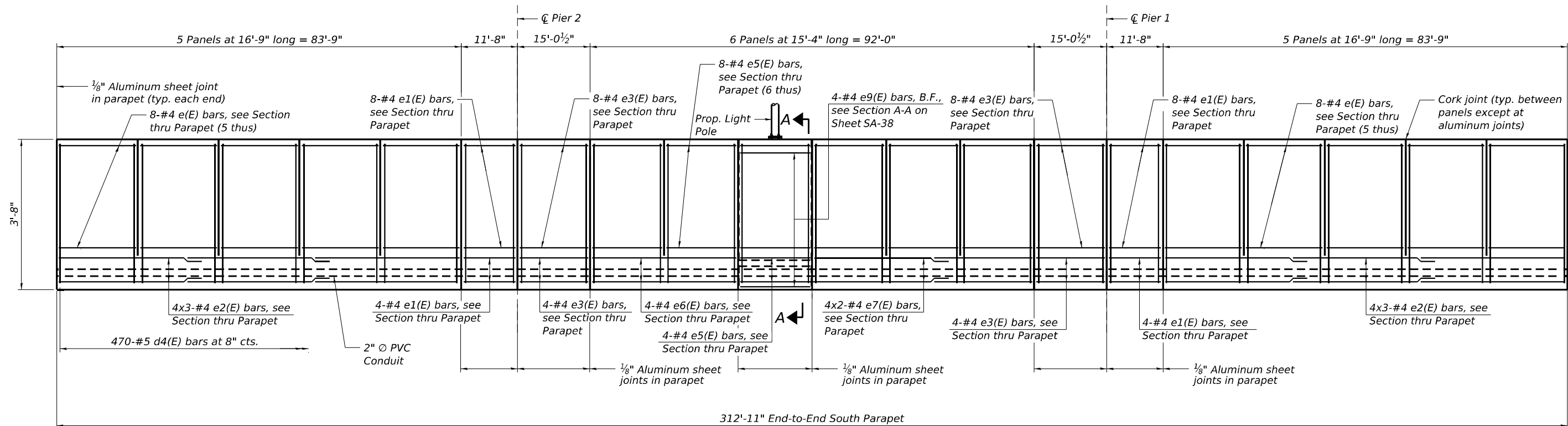
SHEET SA-36 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	569
CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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INSIDE ELEVATION OF NORTH PARAPET
(Looking North)



INSIDE ELEVATION OF SOUTH PARAPET
(Looking South)

NOTES:

- For notes, see Sheet SA-35.
- For Sections thru Parapets, Parapet joint details, bar diagrams and Bill of Material, see Sheet SA-41.



USER NAME	=	DESIGNED	-	JMI, JJS	REVISED	-
		CHECKED	-	MI	REVISED	-
PLOT SCALE	=	DRAWN	-	JMI	REVISED	-
PLOT DATE	=	CHECKED	-	MI	REVISED	-

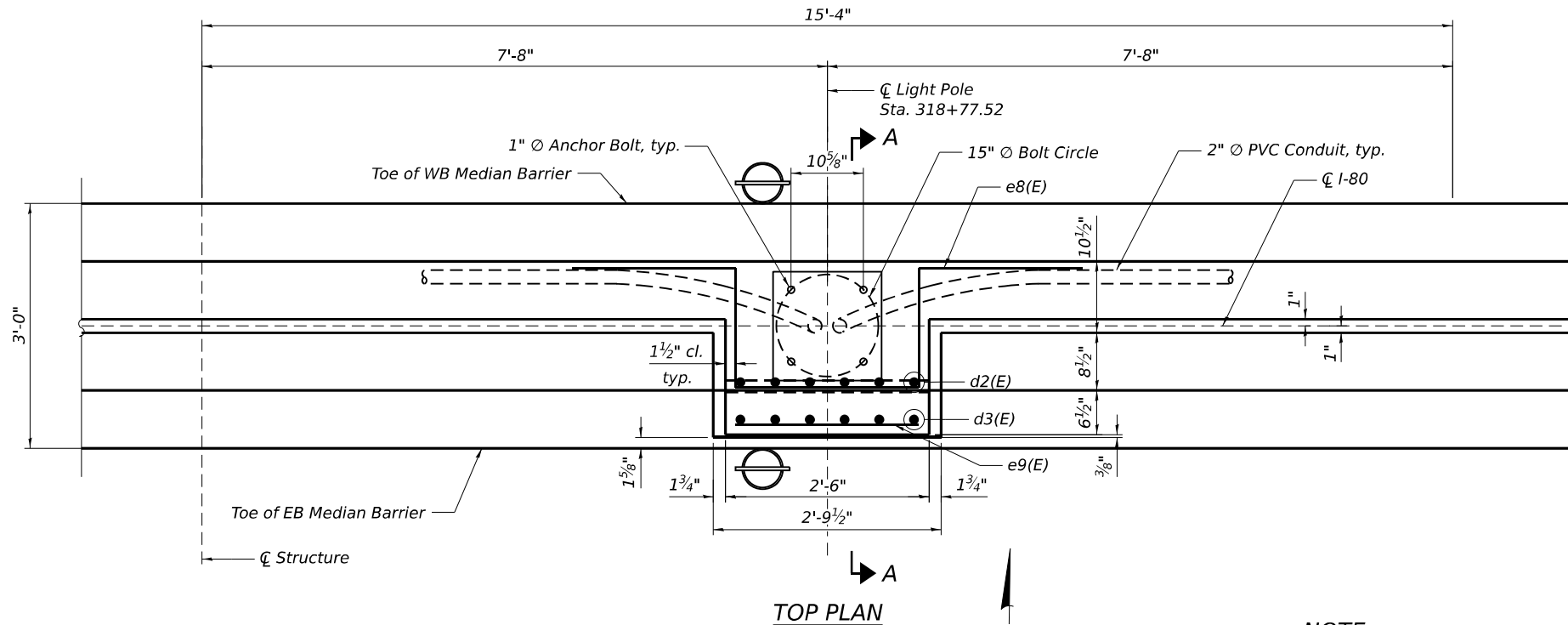
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WB PARAPET ELEVATIONS
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)**

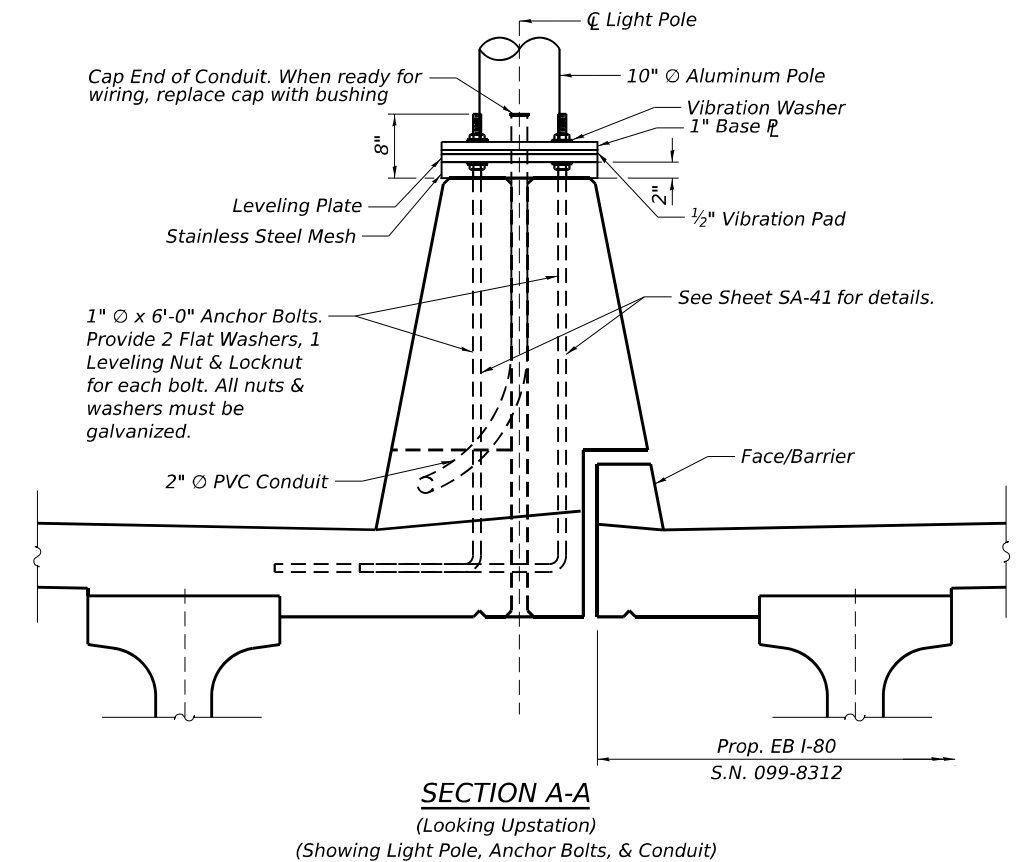
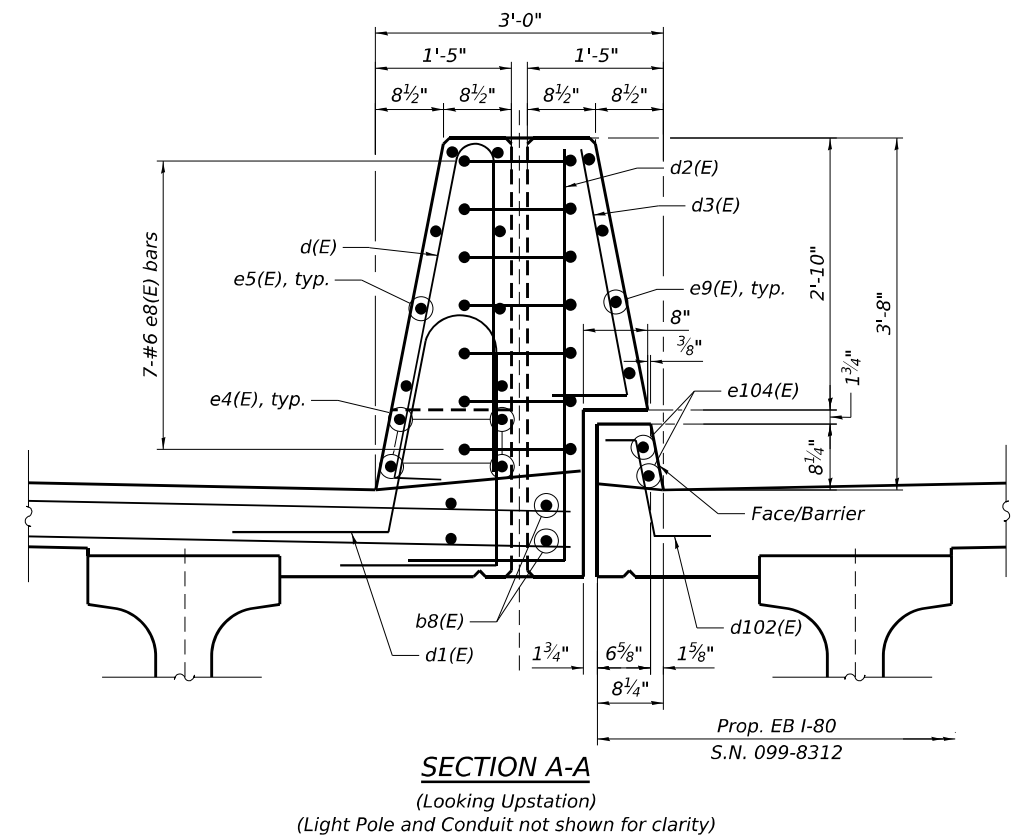
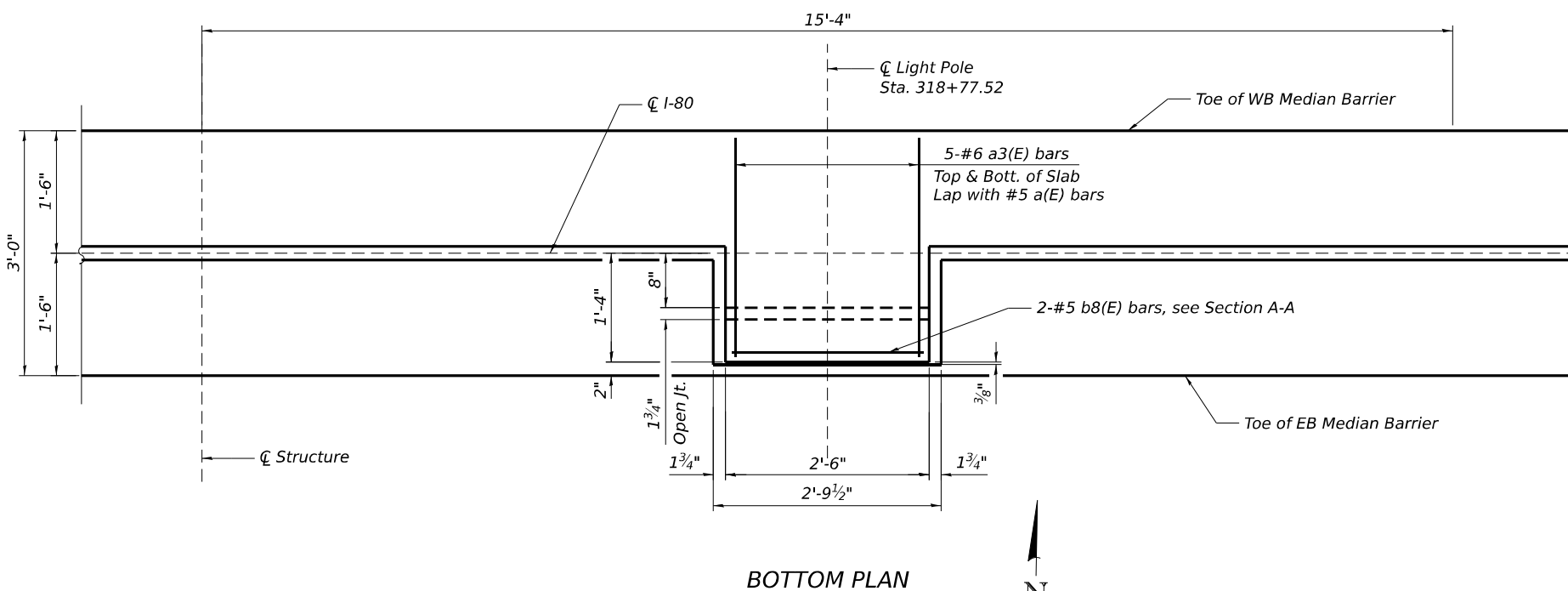
SHEET SA-37 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 62R28
		ILLINOIS	FED. AID PROJECT	

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NOTE:
1. For e104(E) and d102(E) bar details, see Sheets SA-44 and SA-47.



USER NAME	=	DESIGNED	-	JMI, JJS	REVISED	-
PLOT SCALE	=	CHECKED	-	MI	REVISED	-
PLOT DATE	=	DRAWN	-	JMI	REVISED	-
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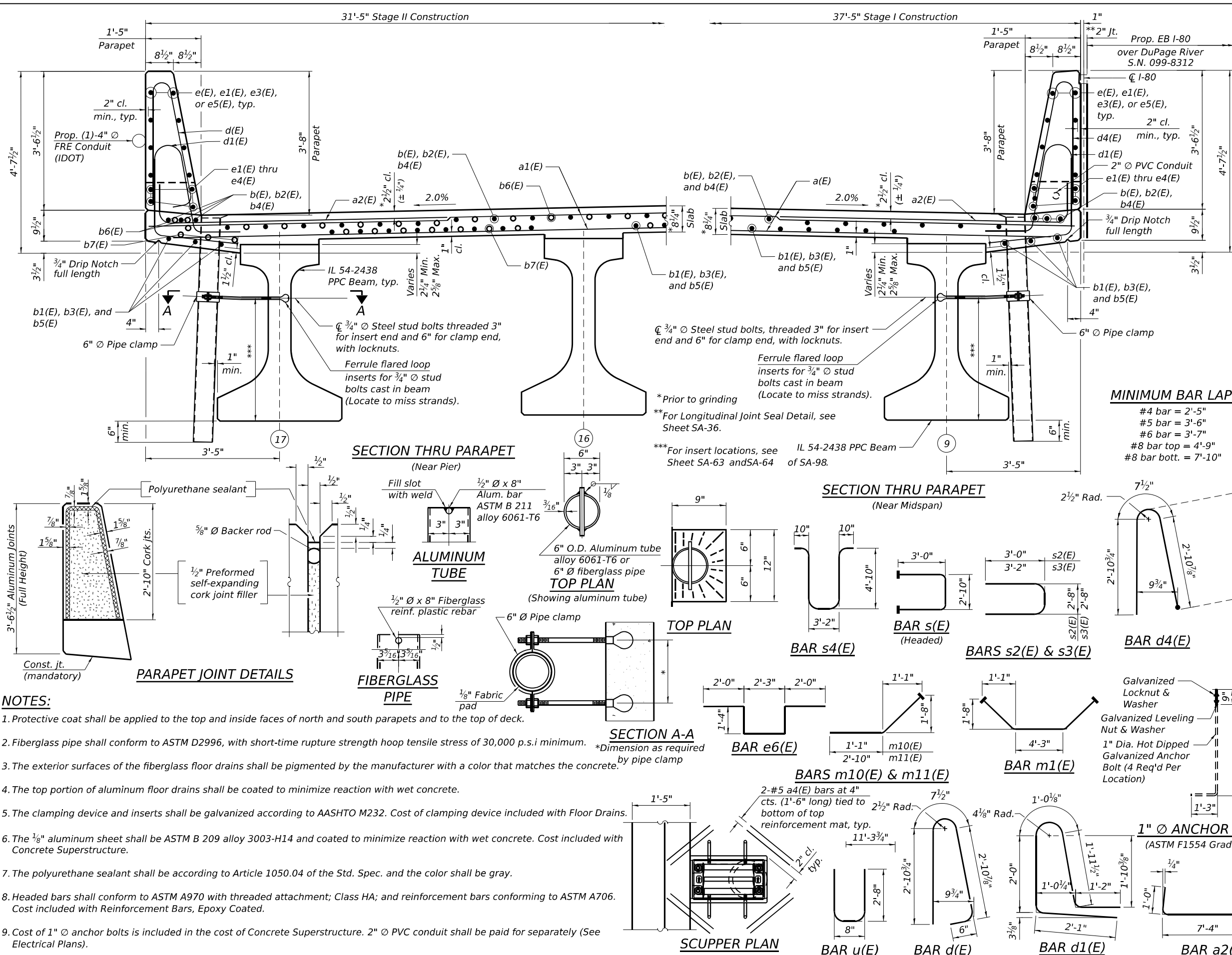
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB MEDIAN MOUNTED LIGHT POLE DETAILS
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

SHEET SA-38 OF SA-98 SHEETS

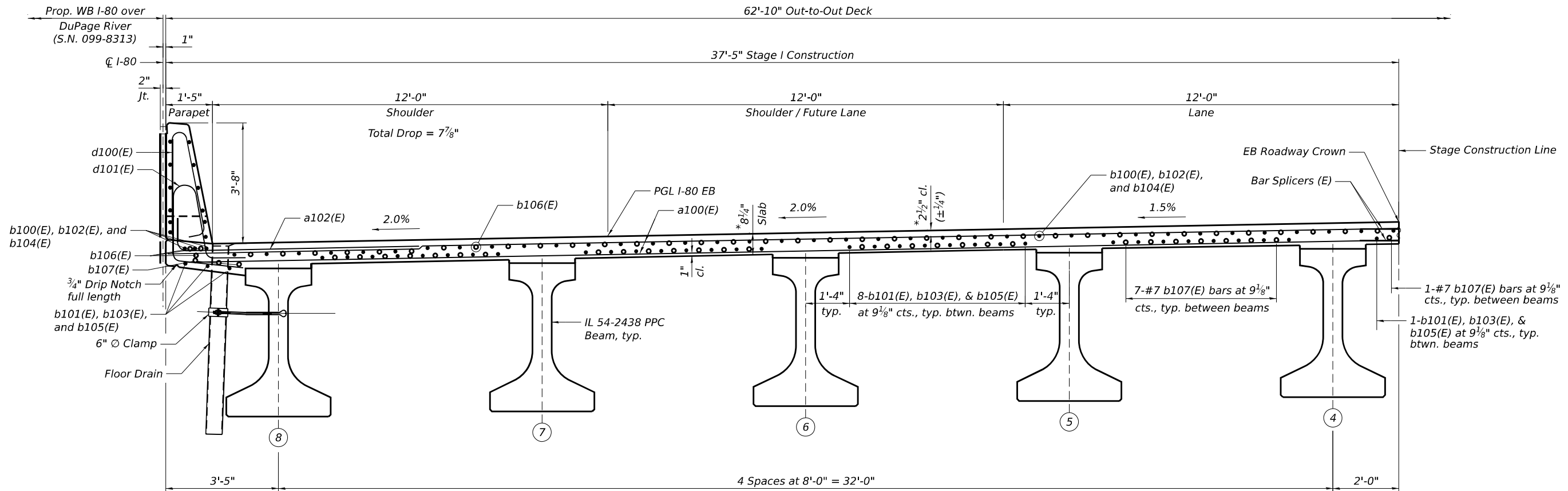
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I-80	FAI 80 21 STRUCTURE 7	WILL	1059	571
CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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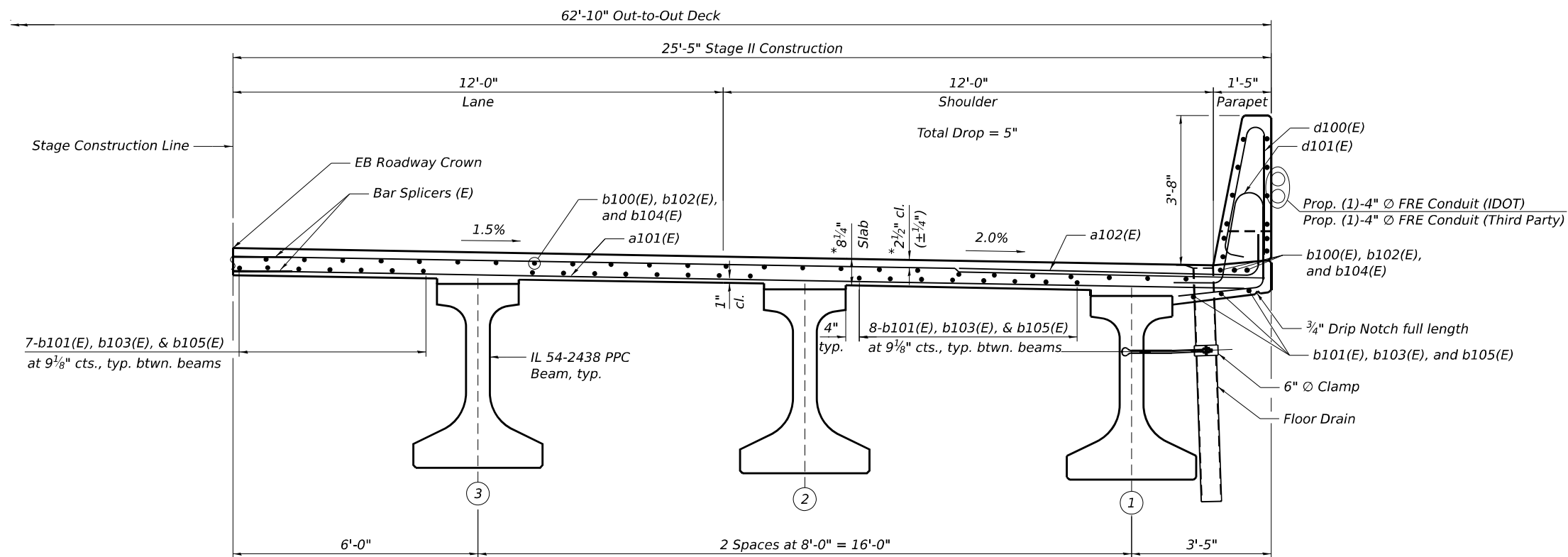


WB SUPERSTRUCTURE BILL OF MATERIAL					
	Bar	No.	Size	Length	Shape

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10/9/2023 3:26:20 PM



TYPICAL CROSS SECTION (NEAR PIER)
(Looking East)



TYPICAL CROSS SECTION (NEAR MIDSPAN)
(Looking East)

NOTES:

1. For Notes, see Sheet SA-42.

*Prior to grinding



USER NAME	=	DESIGNED - JMI, JJS	REVISED -
		CHECKED - MI	REVISED -
PLOT SCALE	=	DRAWN - JMI	REVISED -
PLOT DATE	=	CHECKED - MI	REVISED -

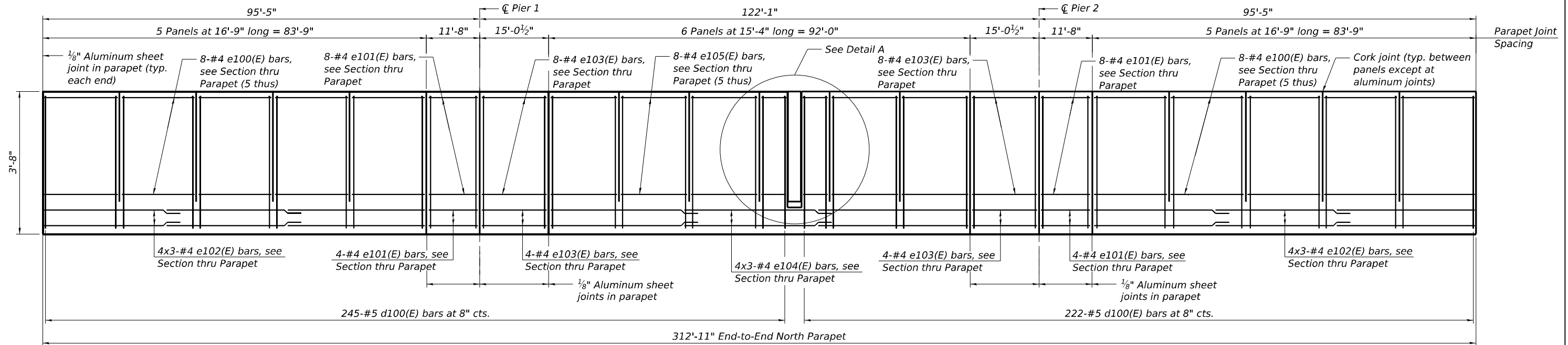
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB DECK CROSS SECTION
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

SHEET SA-43 OF SA-98 SHEETS

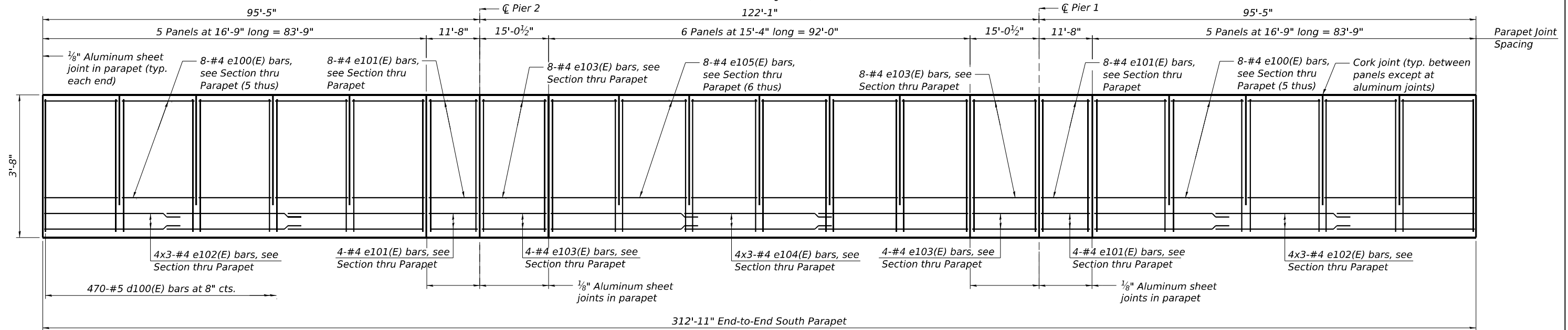
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I-80	FAI 80 21 STRUCTURE 7	WILL	1059	576
				CONTRACT NO. 62R28
ILLINOIS FED. AID PROJECT				

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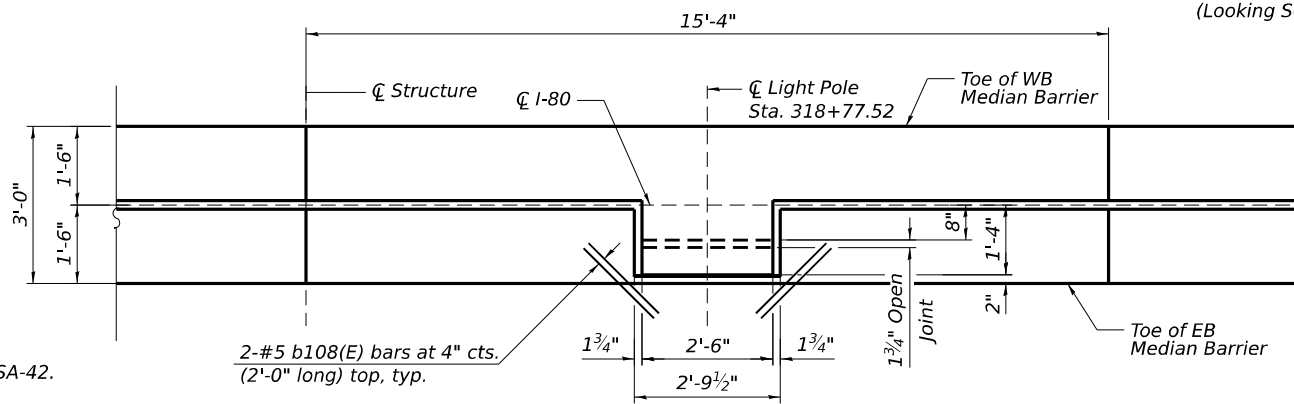
INSIDE ELEVATION OF NORTH PARAPET

(Looking North)

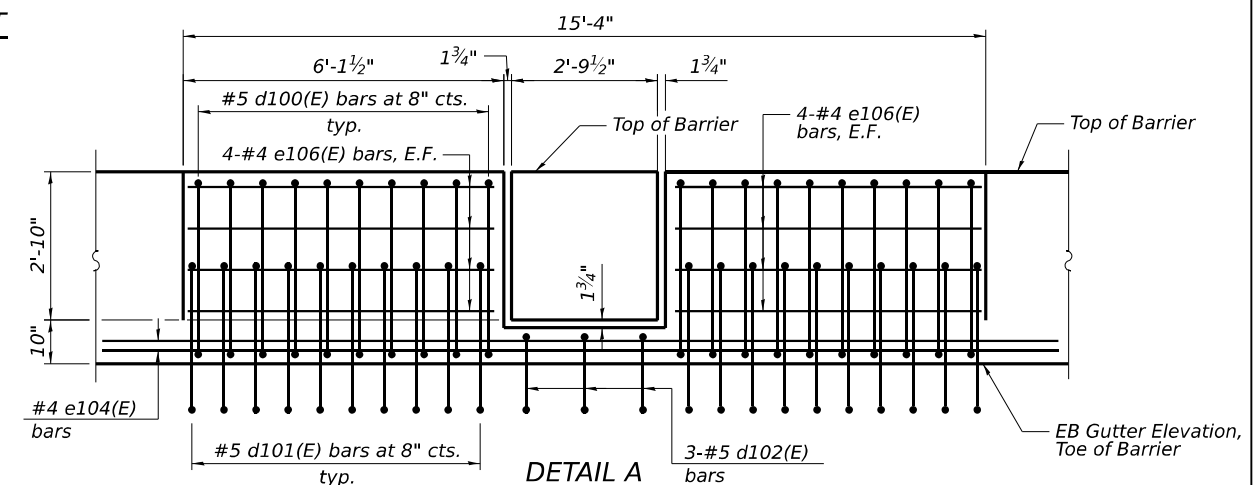


INSIDE ELEVATION OF SOUTH PARAPET

(Looking South)



BOTTOM PLAN



DETAIL A

NOTES:

- For notes, see Sheet SA-42.
- For Sections thru Parapets, Parapet joint details, bar diagrams and Bill of Material, see Sheet SA-47.

HBM
ENGINEERING GROUP, LLC

USER NAME	=	DESIGNED	-	JMI, JJS	REVISED	-
		CHECKED	-	MI	REVISED	-
PLOT SCALE	=	DRAWN	-	JMI	REVISED	-
PLOT DATE	=	CHECKED	-	MI	REVISED	-

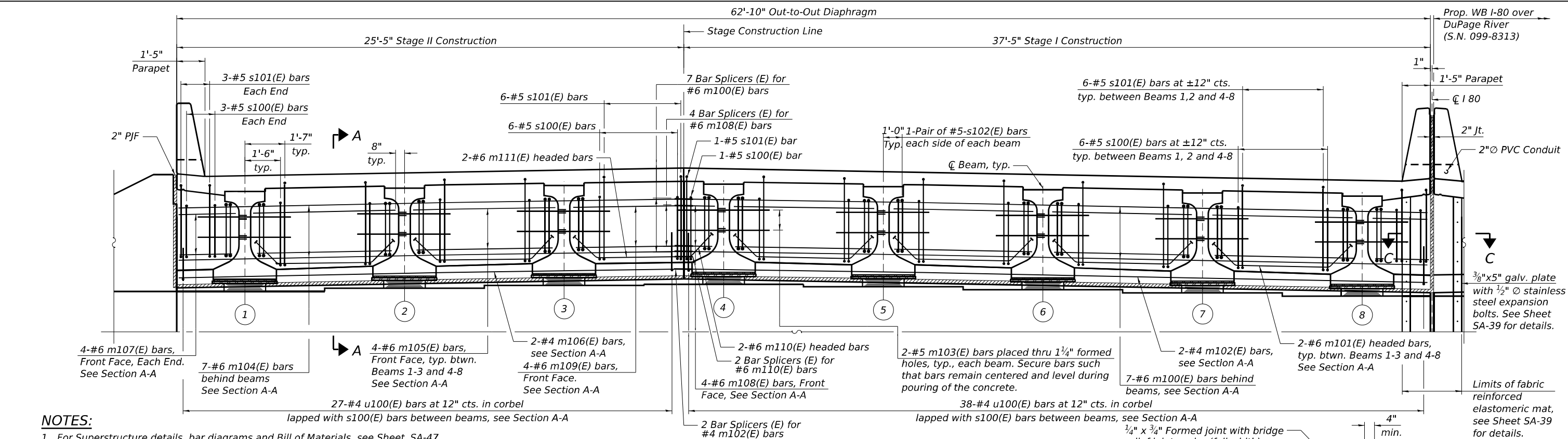
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB PARAPET ELEVATIONS
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

SHEET SA-44 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				

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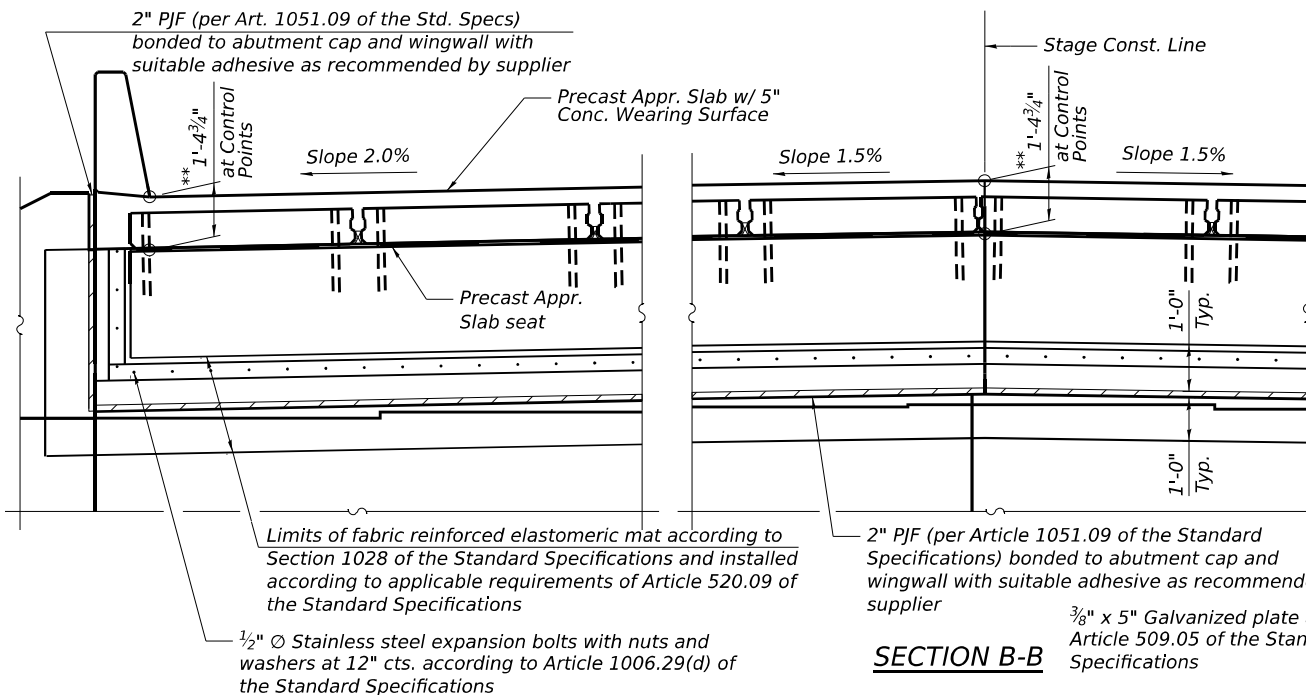


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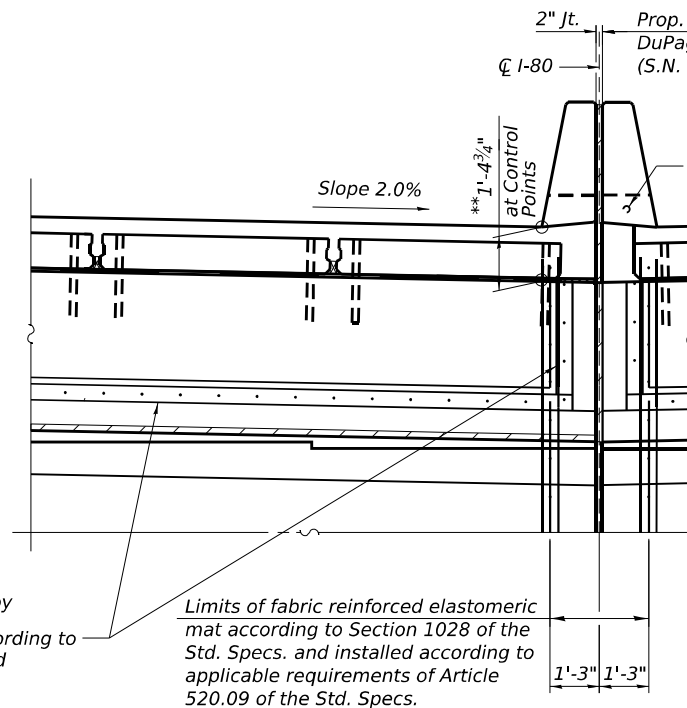
- For Superstructure details, bar diagrams and Bill of Materials, see Sheet SA-47.
- Reinforcement bars in diaphragms are billed with the superstructure on Sheet SA-47.
- Concrete in diaphragm is included with Concrete Superstructure on Sheet SA-47.
- The approach slab seat shall have a constant slope determined from the control points shown.
- For bearing details, see Sheet SA-70.
- Cost of fabric reinforced elastomeric mat, galvanized plate, stainless steel expansion bolts with nuts and washers, and installation are included in the cost of Concrete Superstructure.
- For Section C-C, see Sheet SA-39.

DIAPHRAGM AT ABUTMENT

(West Abutment shown, East Abutment similar opposite hand)
(Side retainers at each side of bearing not shown for clarity)

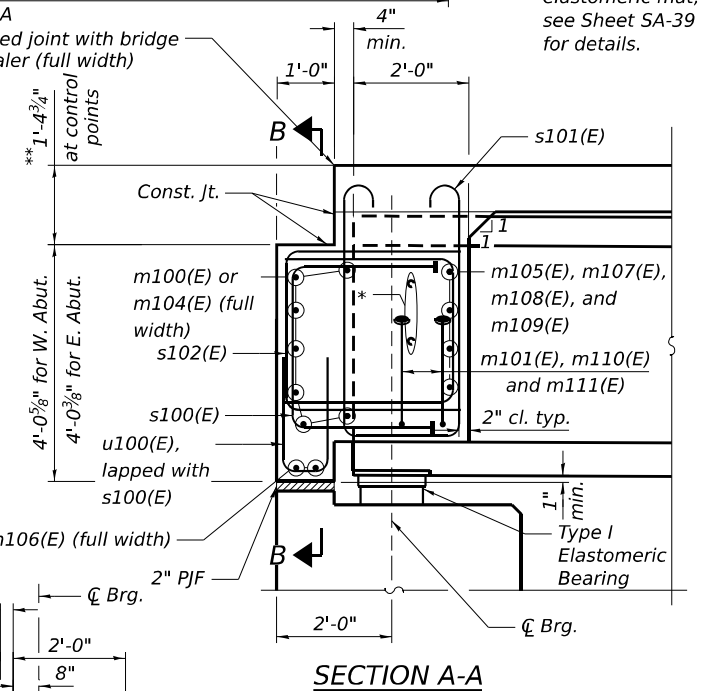


SECTION B-B



PARTIAL PLAN AT ABUTMENT

(Showing bottom flange of beam)



SECTION A-A

*1 1/4" Formed holes for m103(E) bars, typ. See Sheet SA-67 for hole locations.
**Prior to grinding
CL IL54-2438 PPC I-Beam



USER NAME	=	DESIGNED - JMI, JJS	REVISED -
PLOT SCALE	=	CHECKED - MI	REVISED -
PLOT DATE	=	DRAWN - JMI	REVISED -
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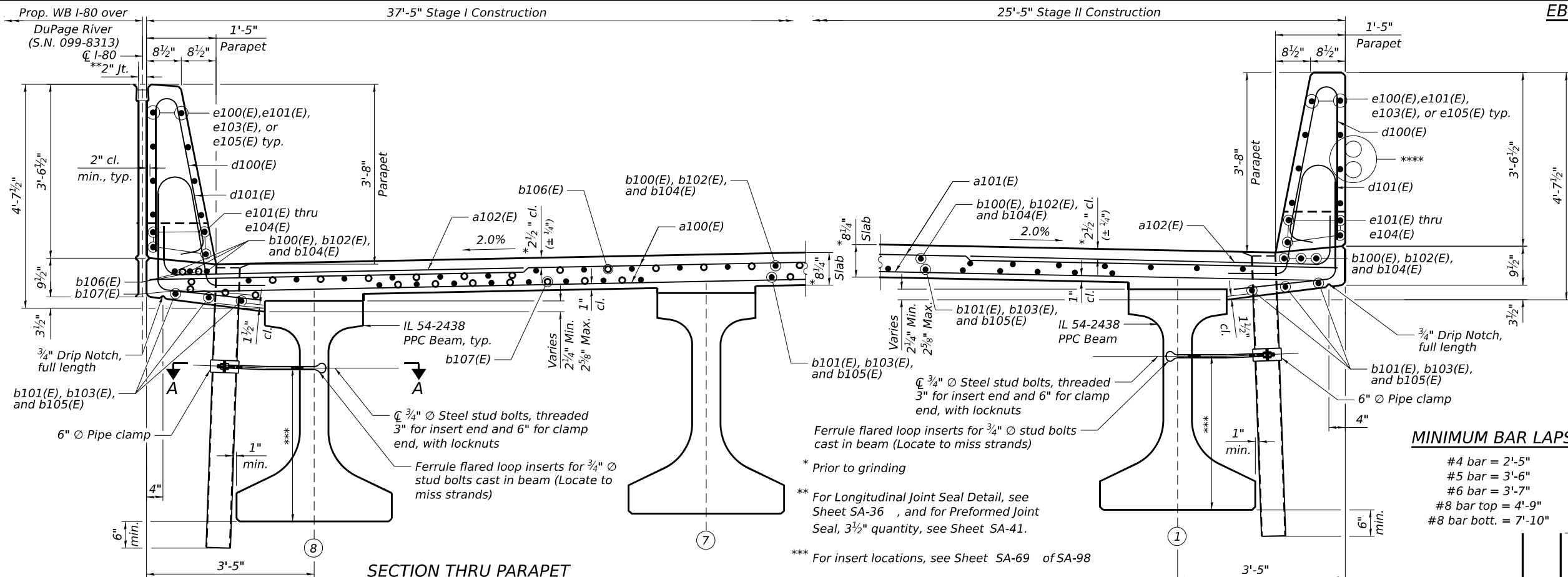
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB W. AND E. ABUTMENT DIAPHRAGM DETAILS
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

SHEET SA-45 OF SA-98 SHEETS

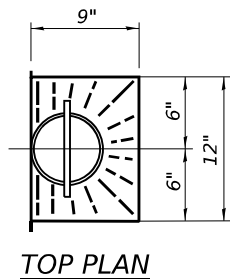
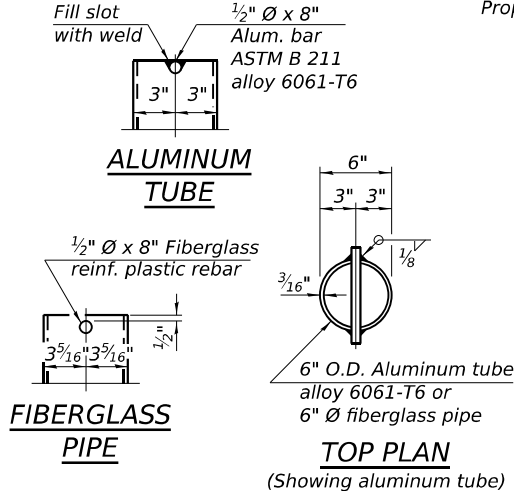
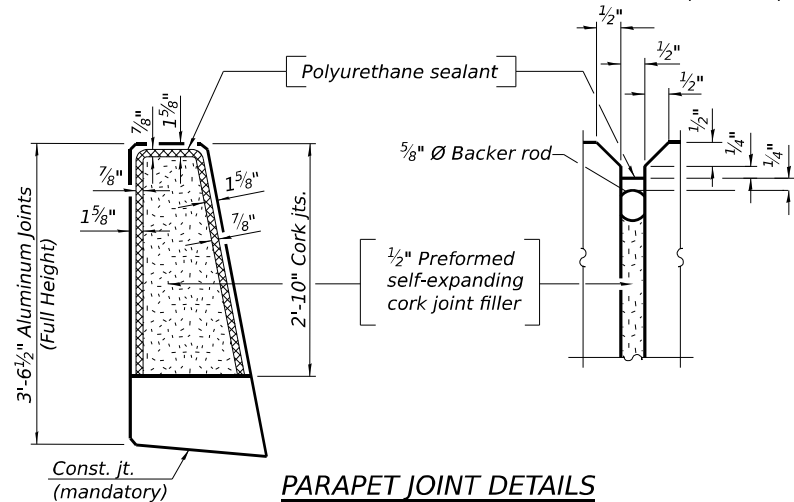
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	578
				CONTRACT NO. 62R28
ILLINOIS FED. AID PROJECT				

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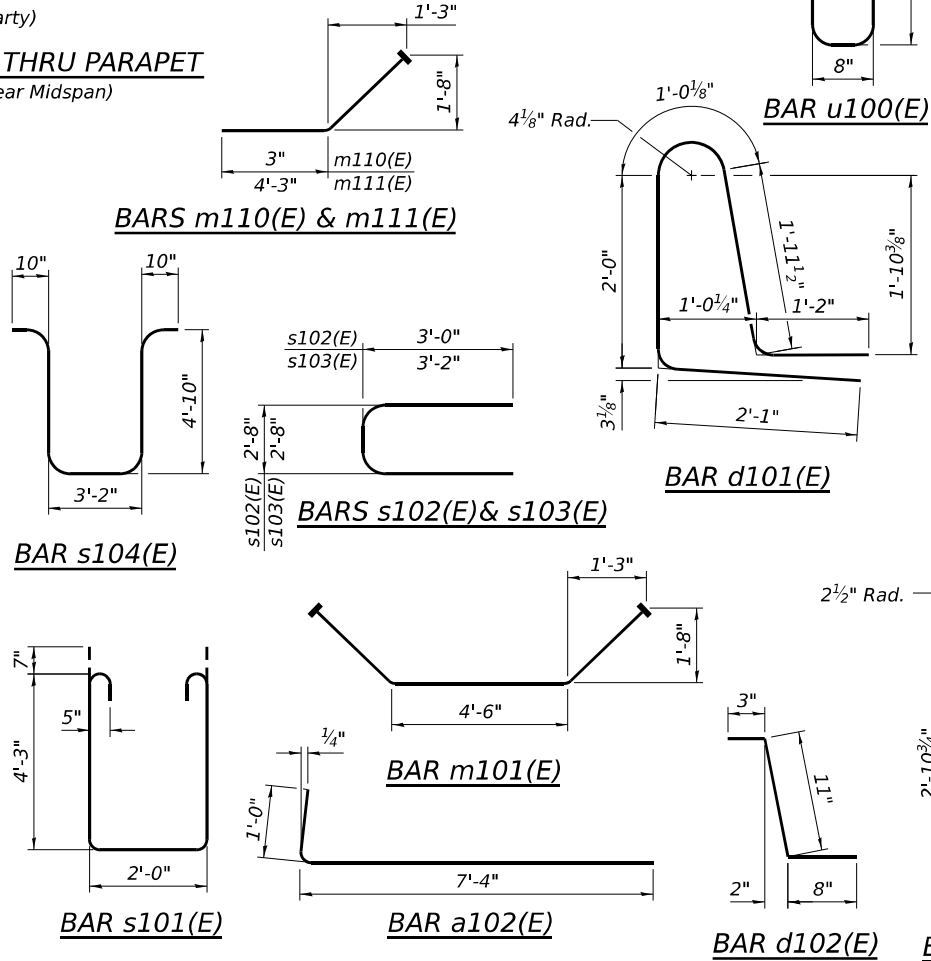
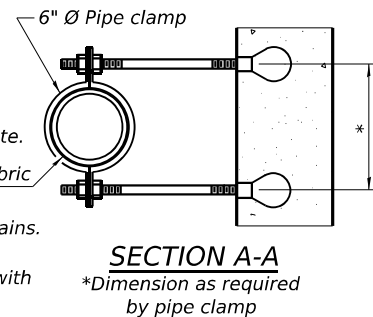
SECTION THRU PARAPET
(Near Pier)

SECTION THRU PARAPET
(Near Midspan)



NOTES:

- Protective coat shall be applied to the top and inside faces of north and south parapets and to the top of deck.
- Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i minimum.
- The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.
- The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
- The clamping device and inserts shall be galvanized according to AASHTO M232. Cost of clamping device included with Floor Drains.
- The 1/8 inch aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
- The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
- Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.



EB SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a100(E)	1152	#5	37'-1"	
a101(E)	1152	#5	25'-1"	
a102(E)	1470	#6	8'-4"	
b100(E)	272	#5	28'-0"	
b101(E)	244	#5	32'-7"	
b102(E)	408	#8	34'-0"	
b103(E)	366	#8	30'-0"	
b104(E)	68	#5	36'-7"	
b105(E)	122	#5	29'-3"	
b106(E)	134	#9	52'-0"	
b107(E)	110	#7	52'-0"	
b108(E)	4	#5	2'-0"	
d100(E)	937	#5	7'-0"	
d101(E)	937	#5	8'-3"	
d102(E)	3	#5	1'-10"	
e100(E)	160	#4	16'-5"	
e101(E)	48	#4	11'-4"	
e102(E)	48	#4	29'-5"	
e103(E)	48	#4	14'-9"	
e104(E)	24	#4	32'-2"	
e105(E)	88	#4	15'-0"	
e106(E)	16	#4	5'-10"	
m100(E)	14	#6	37'-1"	
m101(E)	24	#6	8'-8"	
m102(E)	4	#4	37'-1"	
m103(E)	32	#5	4'-0"	
m104(E)	14	#6	25'-1"	
m105(E)	48	#6	6'-8"	
m106(E)	4	#4	25'-1"	
m107(E)	16	#6	2'-7"	
m108(E)	8	#6	1'-2"	
m109(E)	8	#6	5'-2"	
m110(E)	4	#6	2'-4"	
m111(E)	4	#6	6'-4"	
m112(E)	24	#6	4'-6"	
m113(E)	96	#6	6'-8"	
m114(E)	16	#6	1'-2"	
m115(E)	32	#5	4'-0"	
m116(E)	4	#6	4'-1"	
m117(E)	16	#6	5'-2"	
s100(E)	98	#5	8'-10"	
s101(E)	98	#5	11'-8"	
s102(E)	64	#5	8'-8"	
s103(E)	56	#5	9'-0"	
s104(E)	84	#5	14'-6"	
u100(E)	130	#4	6'-0"	
Concrete Superstructure			Cu Yd	743.5
Protective Coat			Sq Yd	2393
Reinforcement Bars, Epoxy Coated			Pound	246,320
Bridge Deck Grooving (Longitudinal)			Sq Yd	1,252
Diamond Grinding (Bridge Section)			Sq Yd	1,948



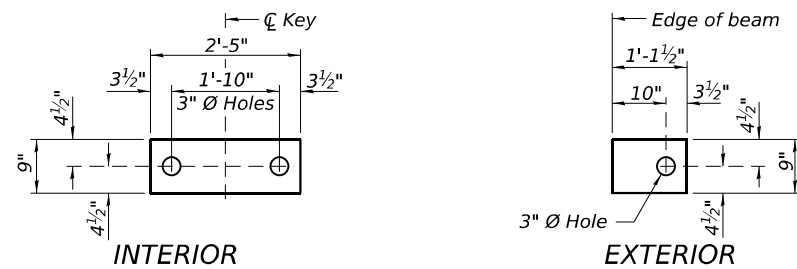
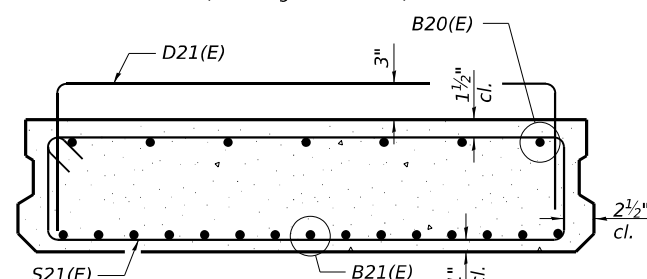
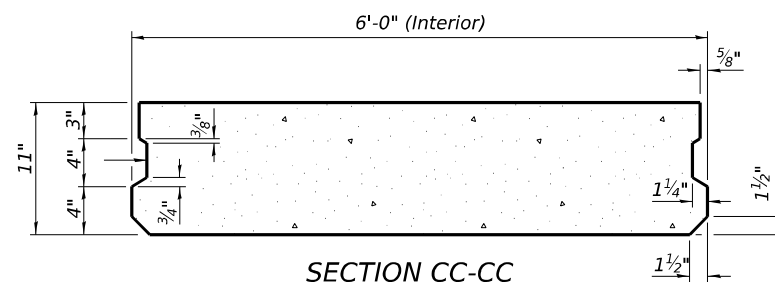
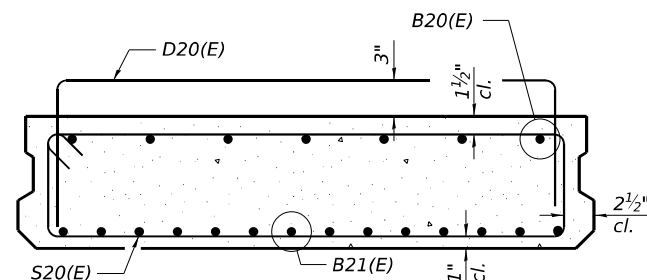
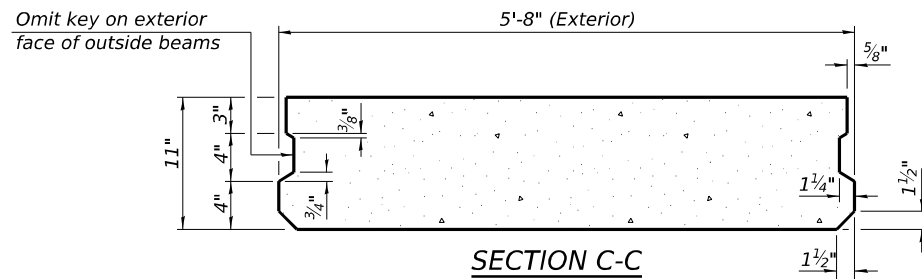
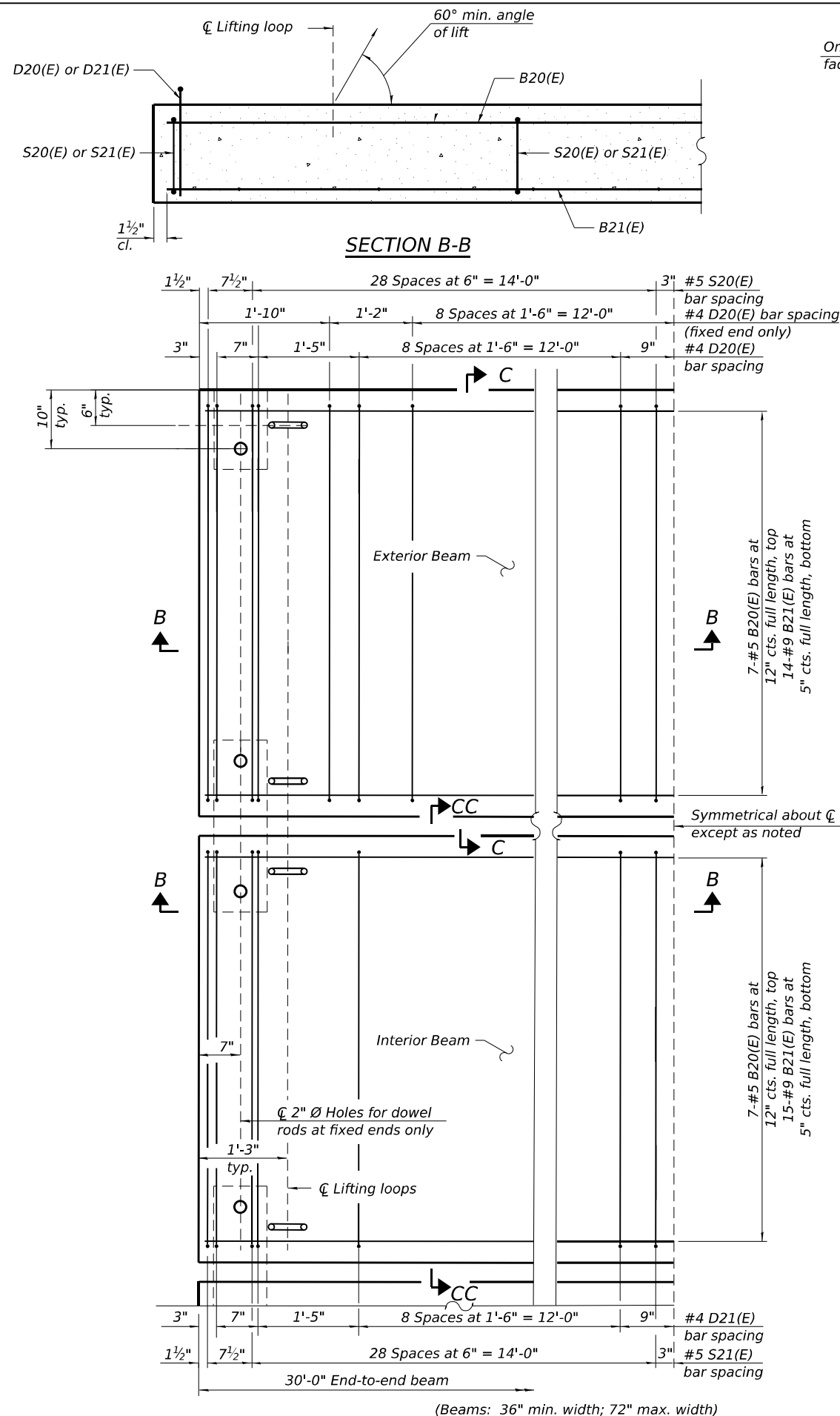
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CHECKED	-	MI	REVISED	-
PLOT SCALE	DRAWN	-	REVISED	-
PLOT DATE	CHECKED	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB DECK SECTIONS, BAR DIAGRAMS, & BILL OF MATERIAL
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

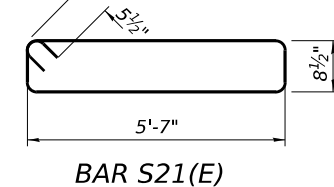
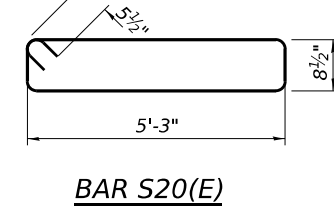
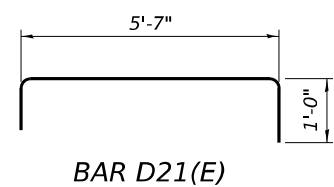
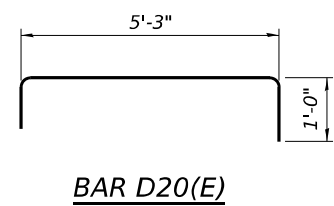
SHEET SA-47 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				

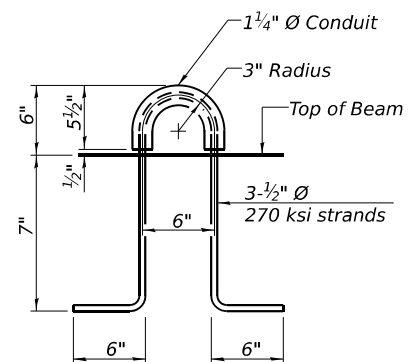


Notes:
Bearing pads at fixed end shall be $\frac{1}{2}$ " thick and bearing pads at expansion ends shall be $\frac{3}{4}$ " thick.

Omit holes for fabric bearing pads at approach slab footing end of beams.



1. The precast bridge approach slab shall be according to Section 504 of the Standard Specifications and shall be paid for at the contract unit price per square foot for Precast Bridge Approach Slab.
2. Cast-in-place substitution of Precast Bridge Approach Slab is not allowed.
3. The top surface of precast bridge approach slabs shall be finished similar to precast prestressed deck beams with concrete wearing surface as specified in the IDOT "Manual for Fabrication of Precast Prestressed Concrete Products."
4. Two $\frac{1}{8}$ " fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. Cost included with Precast Bridge Approach Slab.
5. A minimum 2 $\frac{1}{2}$ " $\varnothing$ lifting pins shall be used to engage the lifting loops during handling.
6. Compressive strength of precast concrete, $f'c$ shall be 6,000 psi.
7. Compressive strength of precast concrete during initial lifting, $f'ci$ shall be 5,000 psi.



LIFTING LOOP DETAIL

(An alternate lifting loop with a proof load of 25,000 lbs. and utilized according to the manufacturer's recommendations may be used)

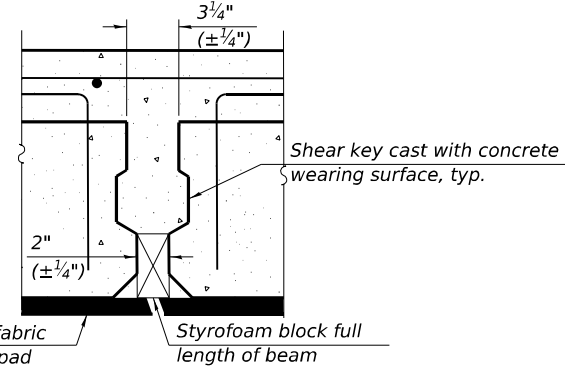
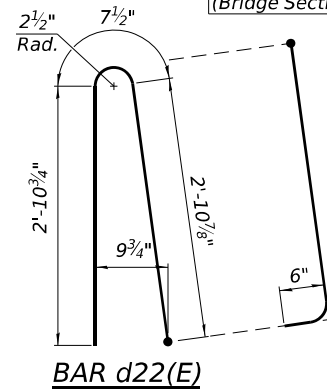
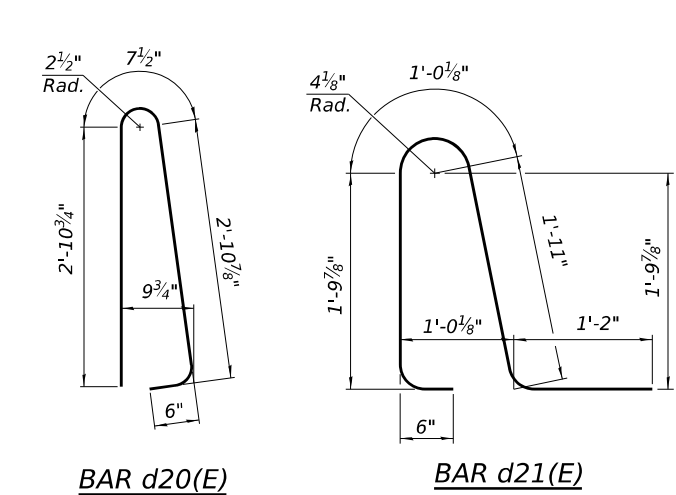
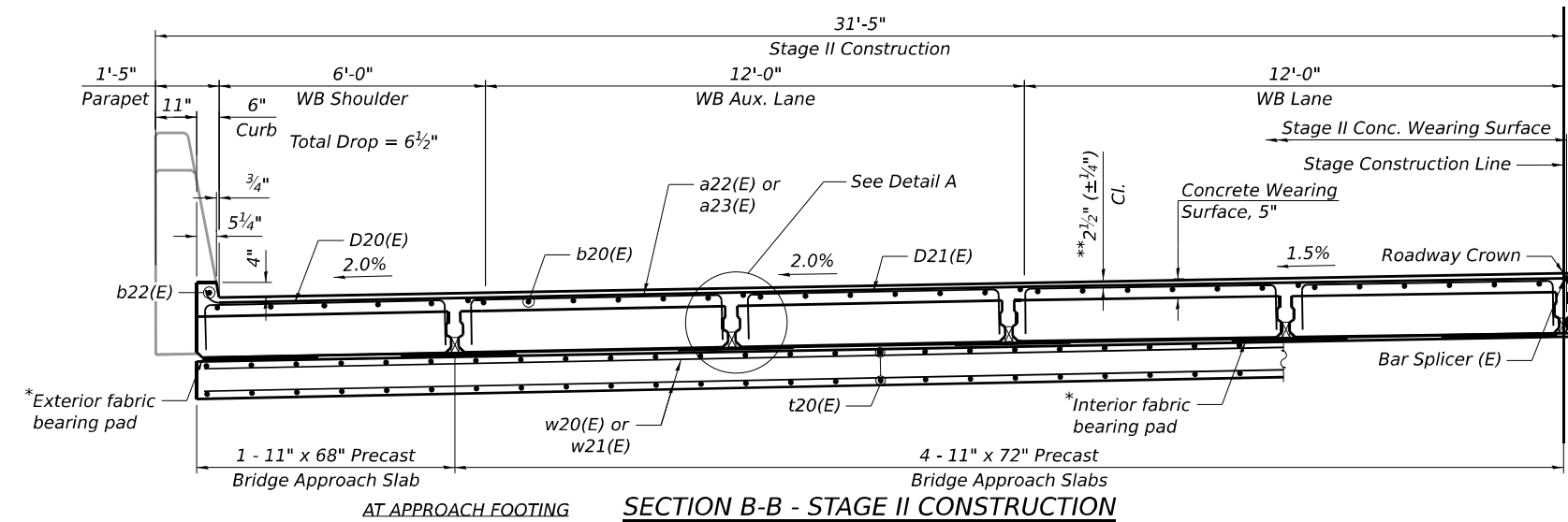
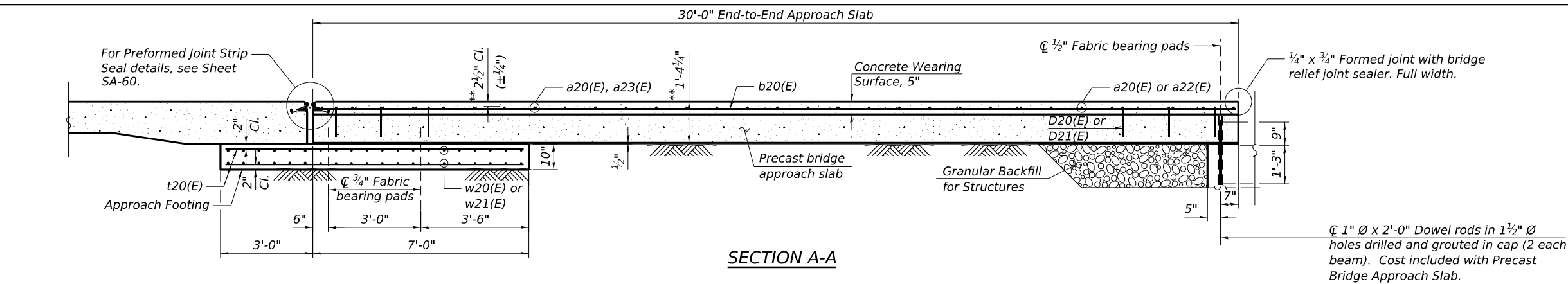
BAR LIST
EACH INTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B20(E)	7	#5	29'-8"	—
B21(E)	15	#9	29'-8"	—
D21(E)	22	#4	7'-7"	┐
S21(E)	60	#5	13'-6"	▣

BAR LIST
EACH EXTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B20(E)	7	#5	29'-8"	—
B21(E)	14	#9	29'-8"	—
D20(E)	32	#4	7'-3"	┐
S20(E)	60	#5	12'-10"	⊞

MODEL: Default
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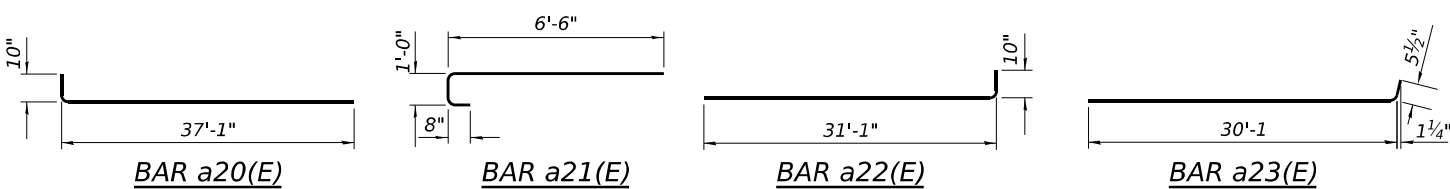
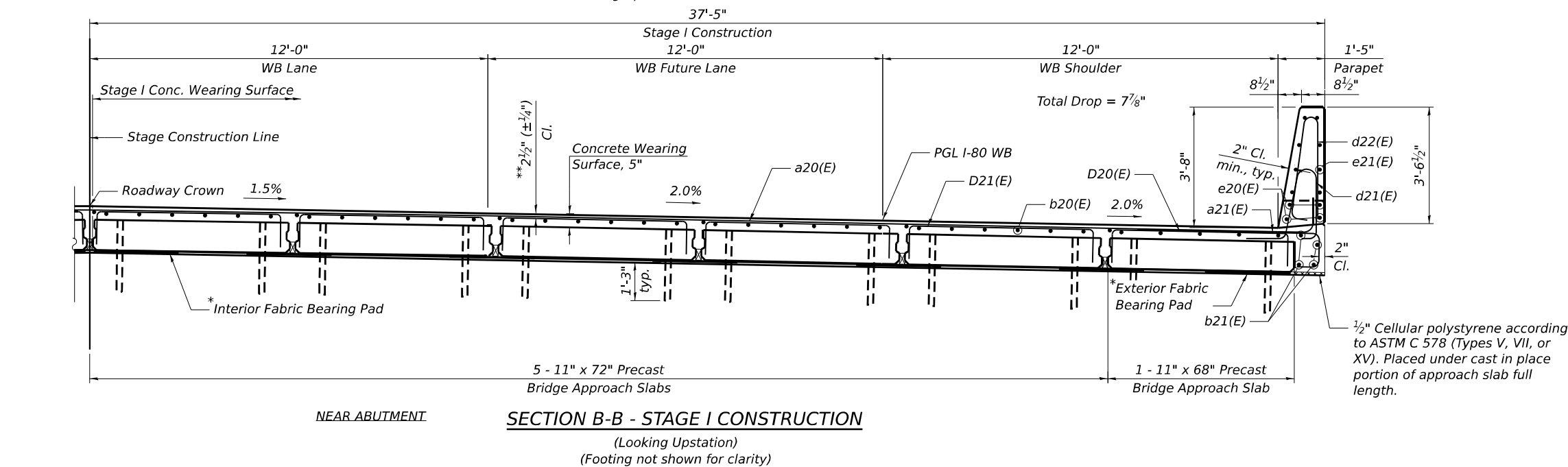


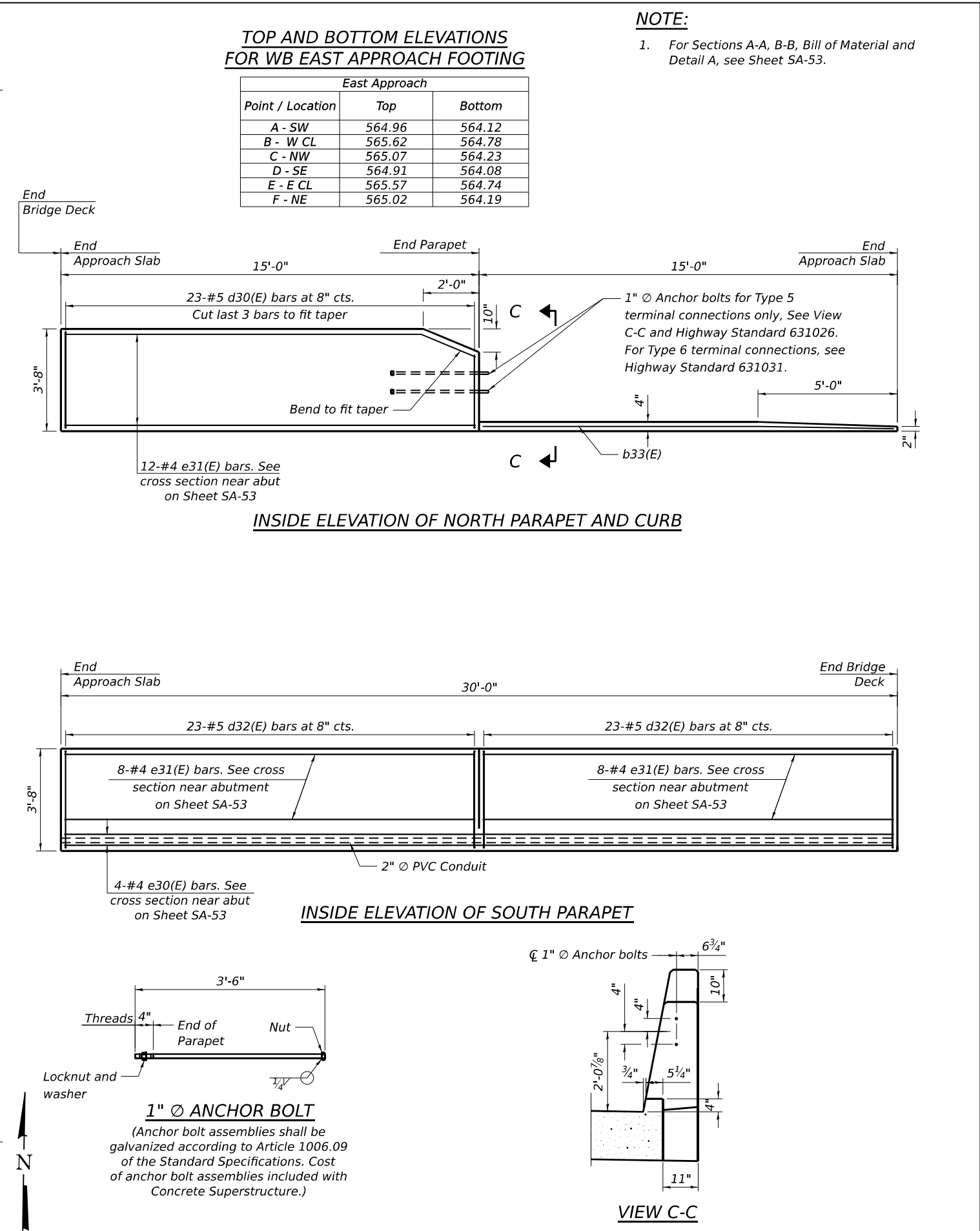
* Fabric bearing pads at the expansion end shall be recessed 1/4" into the approach footing and bonded. Adjusting shims, when required, shall be bonded to the top of the fabric bearing pads.

DETAIL A

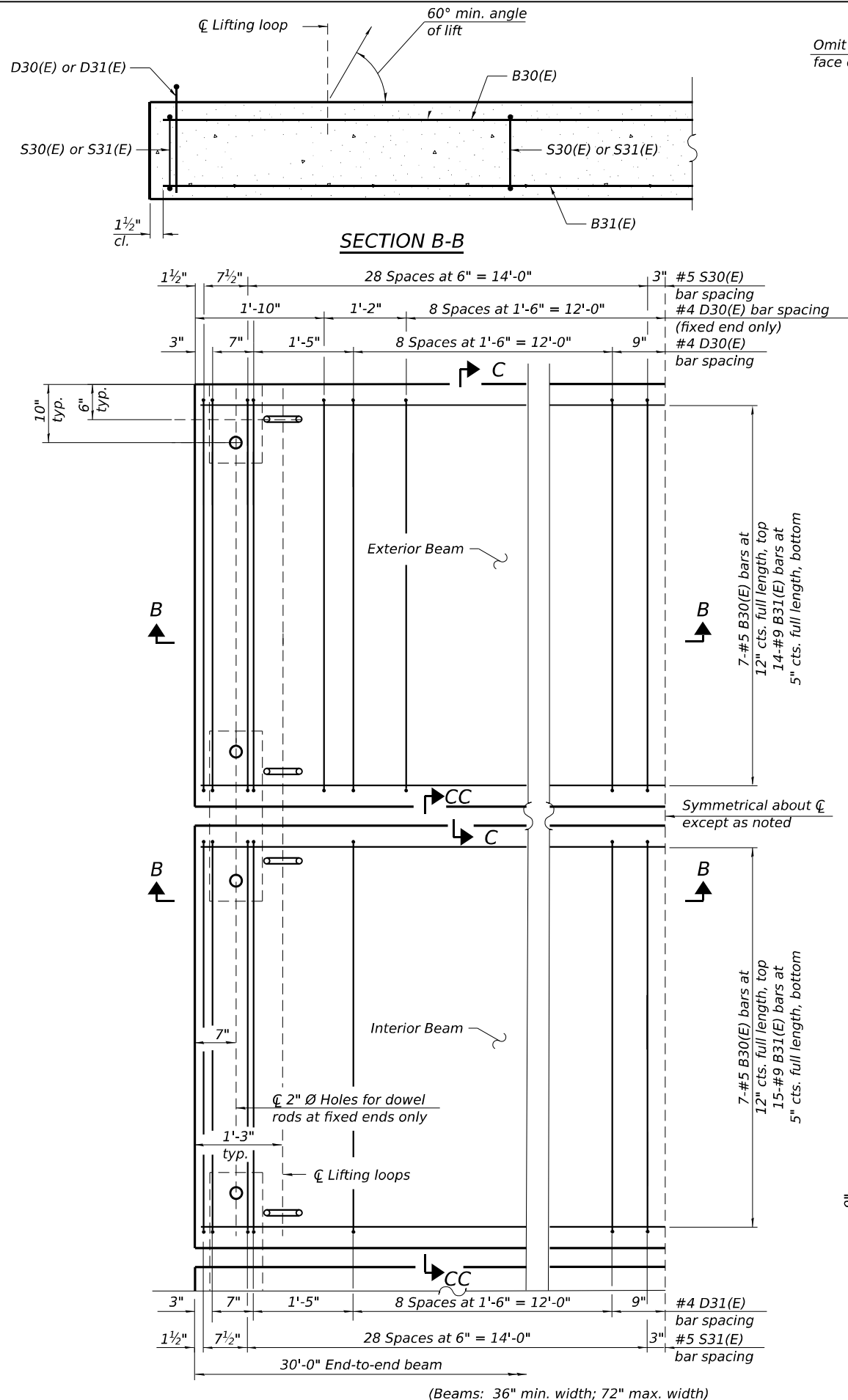
**Prior to grinding

S.N. 099-8313 (WB) WEST APPROACH SLAB				
BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
a20(E)	32	#5	37'-11"	
a21(E)	48	#5	8'-2"	
a22(E)	16	#5	31'-11"	
a23(E)	16	#5	30'-7"	
b20(E)	71	#4	29'-8"	
b21(E)	4	#5	29'-8"	
b22(E)	4	#5	14'-8"	
b23(E)	1	#4	14'-8"	
d20(E)	23	#5	7'-0"	
d21(E)	69	#5	6'-5"	
d22(E)	46	#5	7'-0"	
e20(E)	4	#4	29'-8"	
e21(E)	28	#4	14'-8"	
t20(E)	142	#4	9'-8"	
w20(E)	40	#5	37'-1"	
w21(E)	40	#5	30'-2"	
Concrete Structures			Cu Yd	21.0
Concrete Superstructure			Cu Yd	6.3
Protective Coat			Sq Yd	242
Reinforcement Bars, Epoxy Coated			Pound	38,750
Preformed Joint Seal 3 1/2"			Foot	30
Bridge Deck Grooving (Longitudinal)			Sq Yd	160
Concrete Wearing Surface, 5"			Sq Yd	240
Precast Bridge Approach Slab			Sq Ft	2052
Diamond Grinding (Bridge Section)			Sq Yd	207

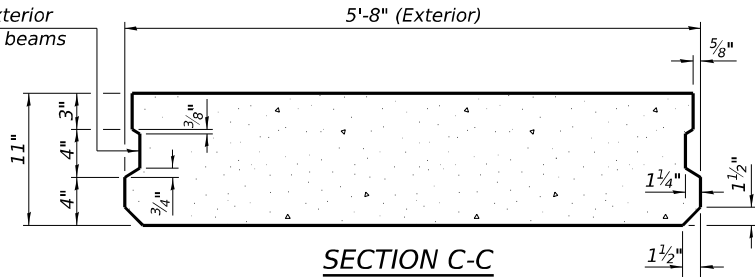




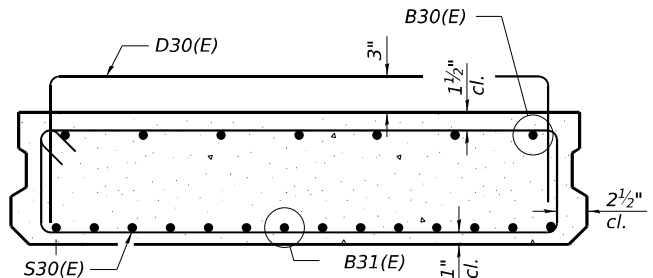
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10/9/2023 3:26:47 PM



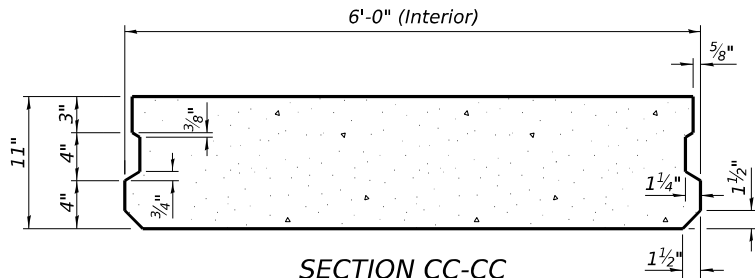
Omit key on exterior
face of outside beams



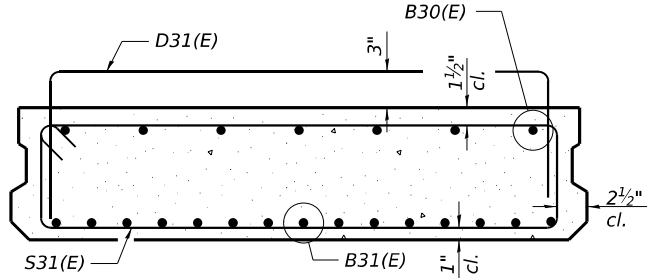
SECTION C-C
(Exterior Beam)
(Showing Dimensions)



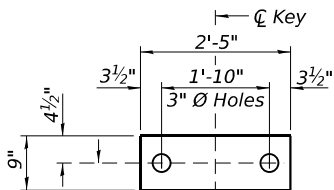
SECTION C-C
(Exterior Beam)
(Showing Reinforcement)



SECTION CC-CC
(Interior Beam)
(Showing Dimensions)



SECTION CC-CC
(Interior Beam)
(Showing Reinforcement)

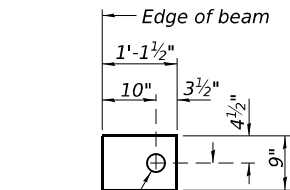


INTERIOR

FABRIC BEARING PAD

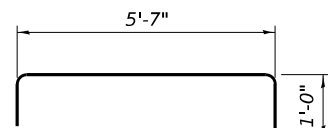
Notes:
Bearing pads at fixed end shall be 1/2" thick and bearing pads at expansion ends shall be 3/4" thick.

Omit holes for fabric bearing pads at approach slab footing end of beams.

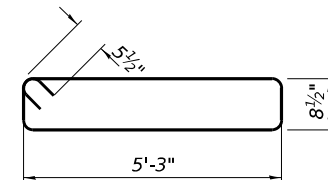


EXTERIOR

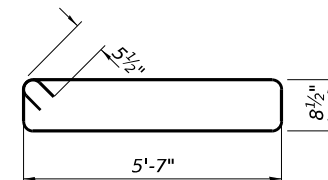
BAR D30(E)



BAR D31(E)



BAR S30(E)

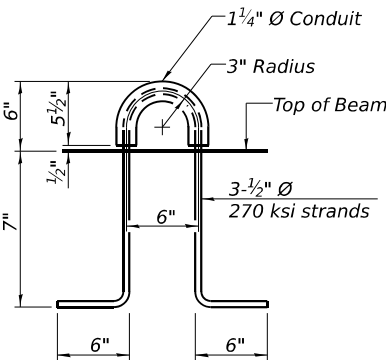


BAR S31(E)



NOTES:

- The precast bridge approach slab shall be according to Section 504 of the Standard Specifications and shall be paid for at the contract unit price per square foot for Precast Bridge Approach Slab.
- Cast-in-place substitution of Precast Bridge Approach Slab is not allowed.
- The top surface of precast bridge approach slabs shall be finished similar to precast prestressed deck beams with concrete wearing surface as specified in the IDOT "Manual for Fabrication of Precast Prestressed Concrete Products."
- Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. Cost included with Precast Bridge Approach Slab.
- A minimum 2 1/2" Ø lifting pins shall be used to engage the lifting loops during handling.
- Compressive strength of precast concrete, f'c shall be 6,000 psi.
- Compressive strength of precast concrete during initial lifting, f'ci shall be 5,000 psi.



LIFTING LOOP DETAIL

(An alternate lifting loop with a proof load of 25,000 lbs. and utilized according to the manufacturer's recommendations may be used)

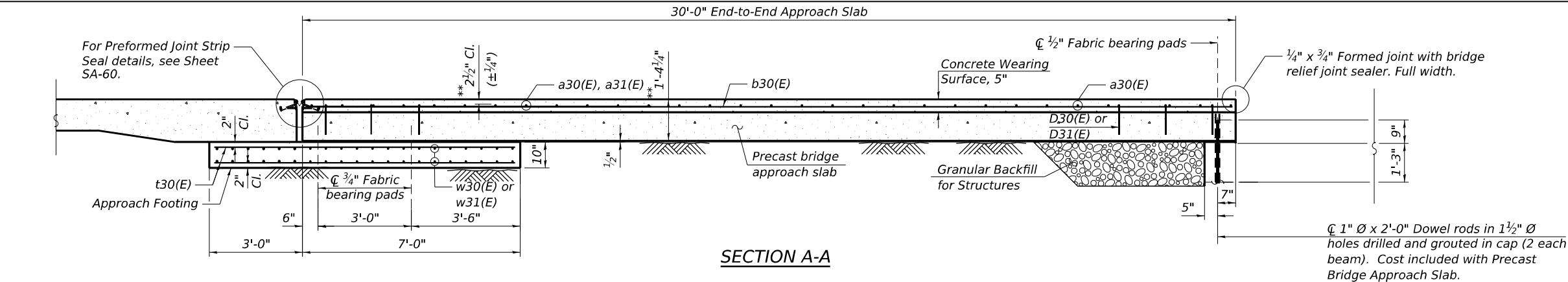
BAR LIST
EACH INTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B30(E)	7	#5	29'-8"	—
B31(E)	15	#9	29'-8"	—
D31(E)	22	#4	7'-7"	┐
S31(E)	60	#5	13'-6"	▬

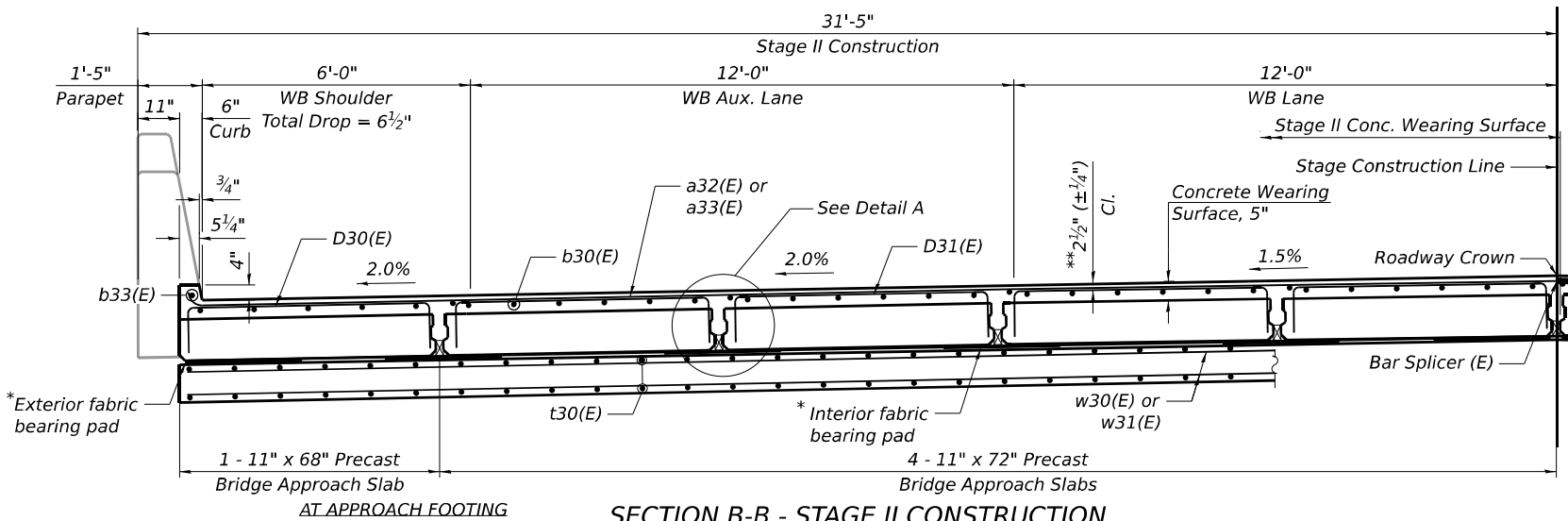
BAR LIST
EACH EXTERIOR BEAM
(For information only)

Bar	No.	Size	Length	Shape
B30(E)	7	#5	29'-8"	—
B31(E)	14	#9	29'-8"	—
D30(E)	32	#4	7'-3"	┐
S30(E)	60	#5	12'-10"	▬

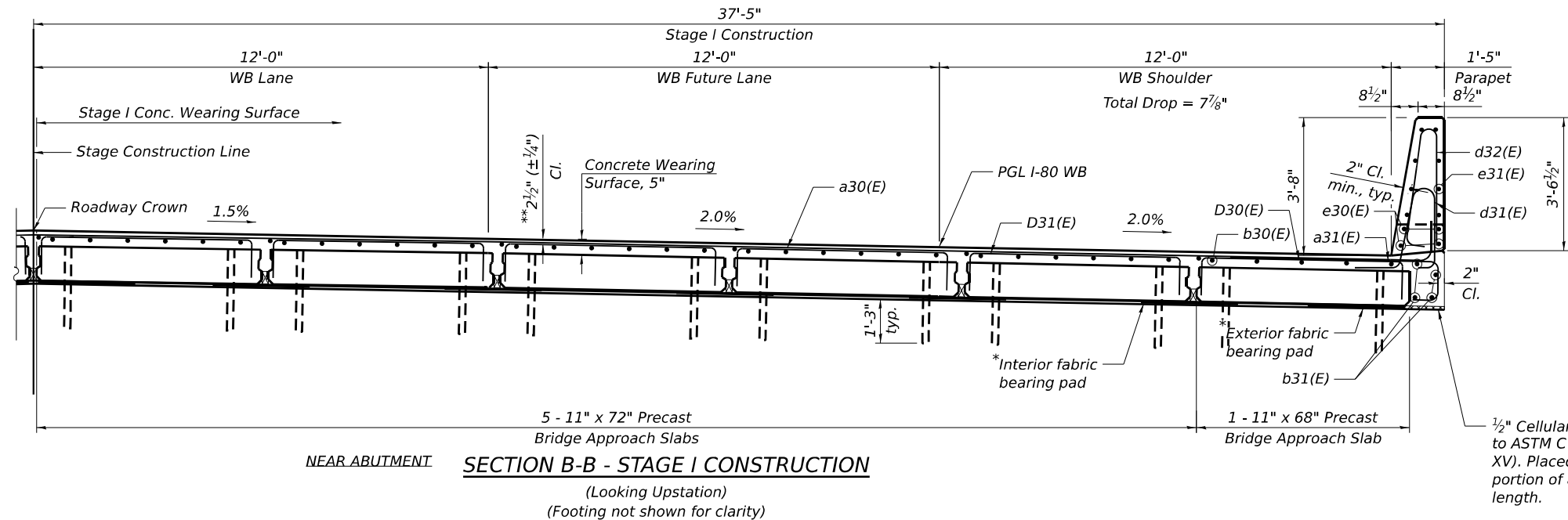
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10/9/2023 3:26:51 PM



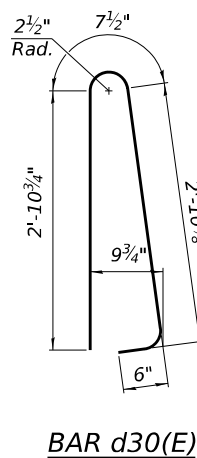
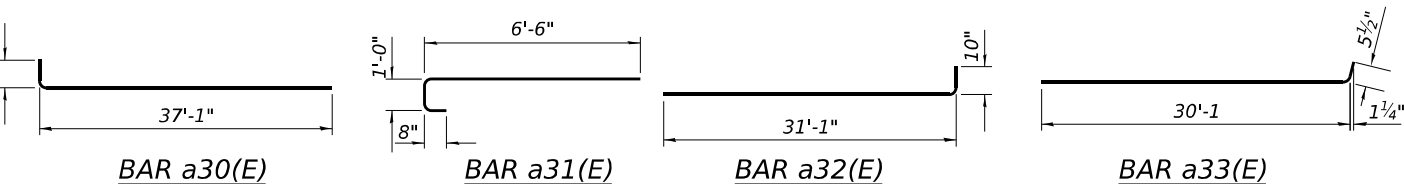
SECTION A-A



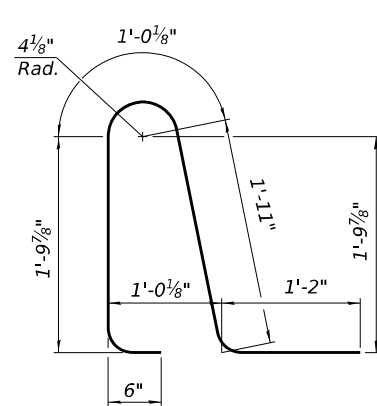
SECTION B-B - STAGE II CONSTRUCTION
(Looking Upstation)



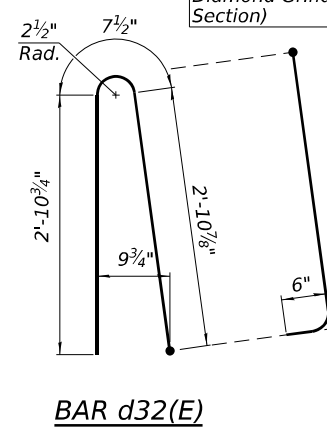
SECTION B-B - STAGE I CONSTRUCTION
(Looking Upstation)
(Footing not shown for clarity)



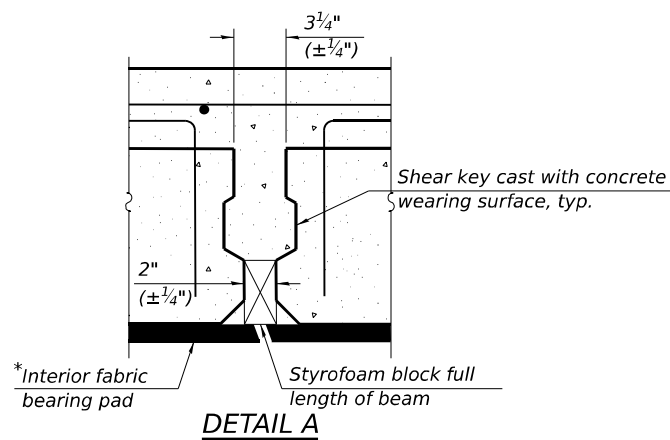
BAR d30(E)



BAR d31(E)



BAR d32(E)



* Fabric bearing pads at the expansion end shall be recessed 1/4" into the approach footing and bonded. Adjusting shims, when required, shall be bonded to the top of the fabric bearing pads.

** Prior to grinding

S.N. 099-8313 (WB) EAST APPROACH				
BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
a30(E)	32	#5	37'-11"	
a31(E)	48	#5	8'-2"	
a32(E)	16	#5	31'-11"	
a33(E)	16	#5	30'-7"	
b30(E)	71	#4	29'-8"	
b31(E)	4	#5	29'-8"	
b32(E)	4	#5	14'-8"	
b33(E)	1	#4	14'-8"	
d30(E)	23	#5	7'-0"	
d31(E)	69	#5	6'-5"	
d32(E)	46	#5	7'-0"	
e30(E)	4	#4	29'-8"	
e31(E)	28	#4	14'-8"	
t30(E)	142	#4	9'-8"	
w30(E)	40	#5	37'-1"	
w31(E)	40	#5	30'-2"	
Concrete Structures			Cu Yd	21.0
Concrete Superstructure			Cu Yd	6.3
Protective Coat			Sq Yd	242.0
Reinforcement Bars, Epoxy Coated			Pound	38,440
Preformed Joint Seal 3 1/2"			Foot	30
Bridge Deck Grooving (Longitudinal)			Sq Yd	160.0
Concrete Wearing Surface, 5"			Sq Yd	240
Precast Bridge Approach Slab			Sq Ft	2,052
Diamond Grinding (Bridge Section)			Sq Yd	207



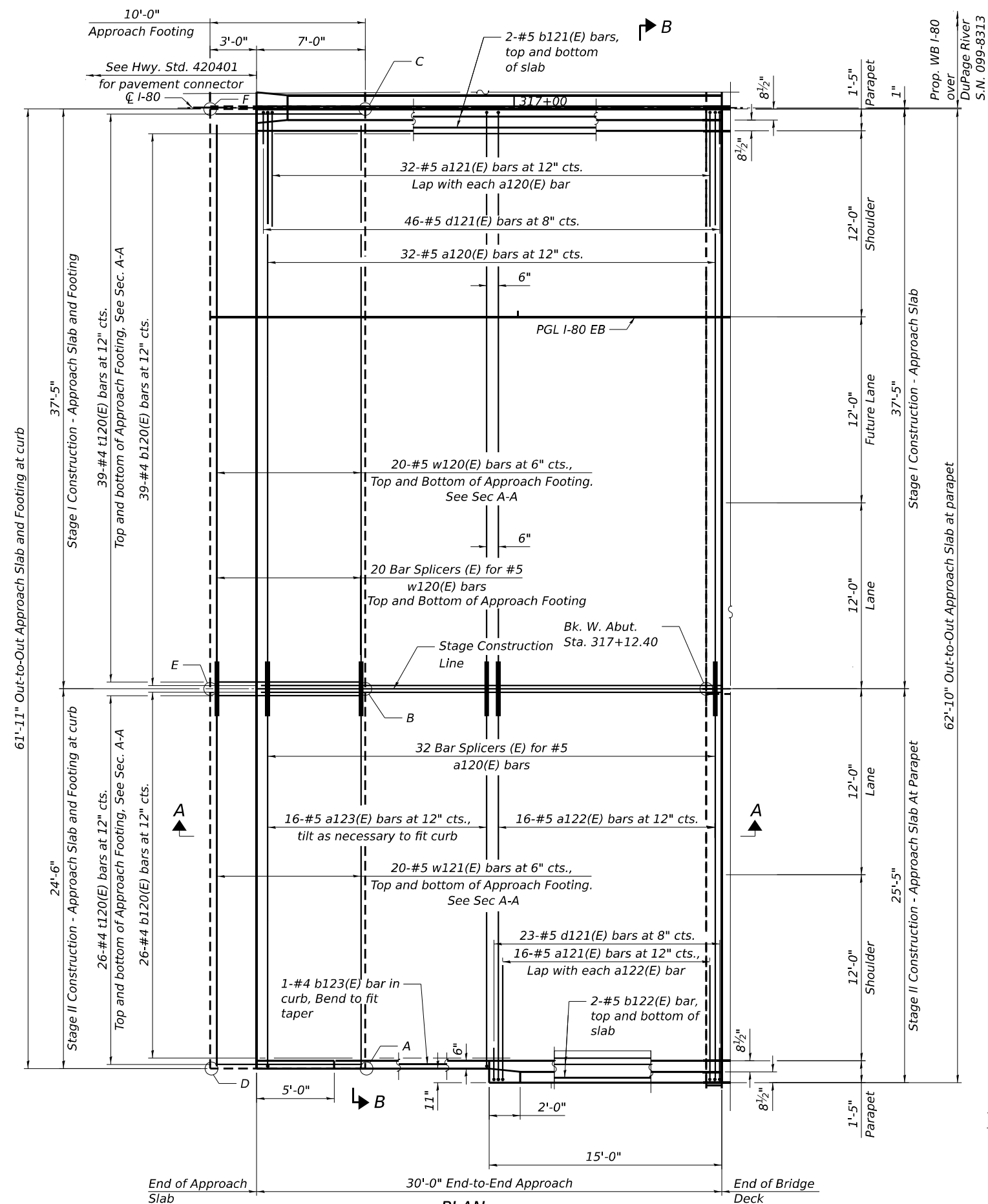
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PLOT SCALE =	CHECKED - MI, JJS	REVISED -
PLOT DATE =	DRAWN - EN	REVISED -
	CHECKED - MI, JJS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB E. PRECAST APPROACH SLAB SECTIONS AND DETAILS
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

SHEET SA-53 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	586
CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				

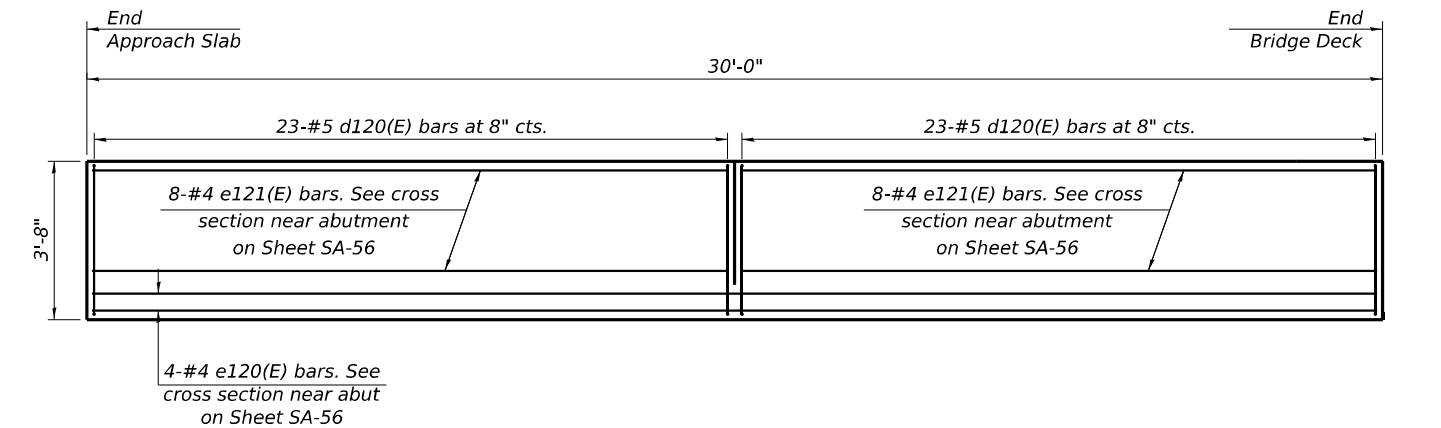


TOP AND BOTTOM ELEVATIONS
FOR EB WEST APPROACH FOOTING

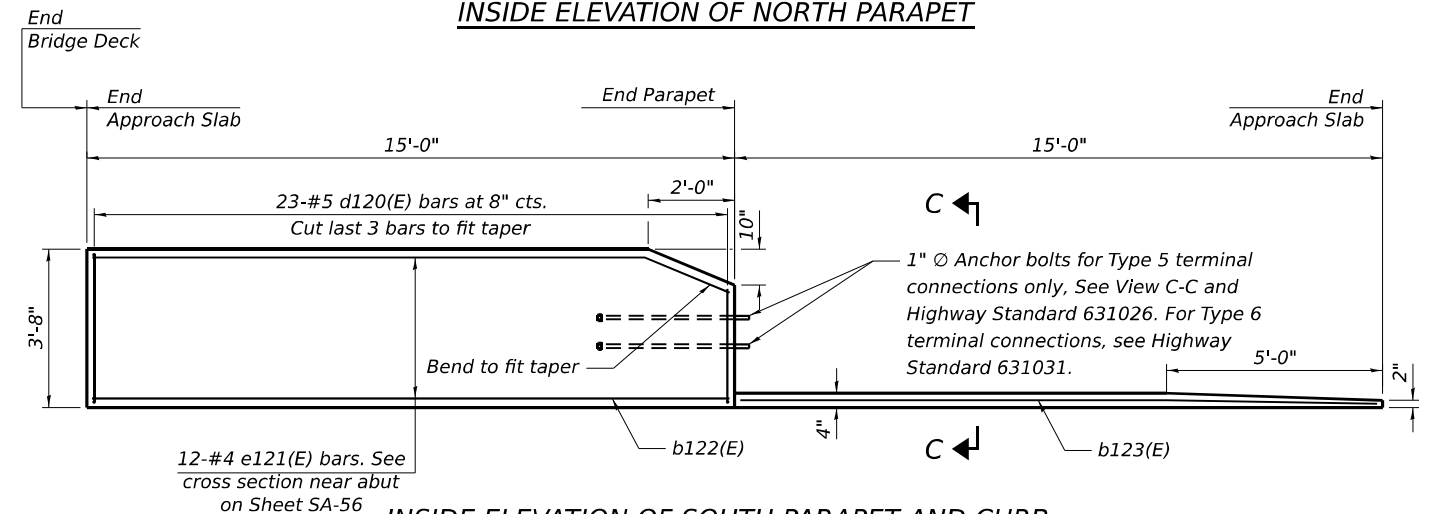
<i>West Approach</i>		
<i>Point / Location</i>	<i>Top</i>	<i>Bottom</i>
<i>A - SE</i>	<i>566.79</i>	<i>565.95</i>
<i>B - E. CL</i>	<i>567.22</i>	<i>566.38</i>
<i>C - NE</i>	<i>566.56</i>	<i>565.72</i>
<i>D - SW</i>	<i>566.83</i>	<i>566.00</i>
<i>E - W CL.</i>	<i>567.26</i>	<i>566.43</i>
<i>F - NW</i>	<i>566.60</i>	<i>565.77</i>

NOTE:

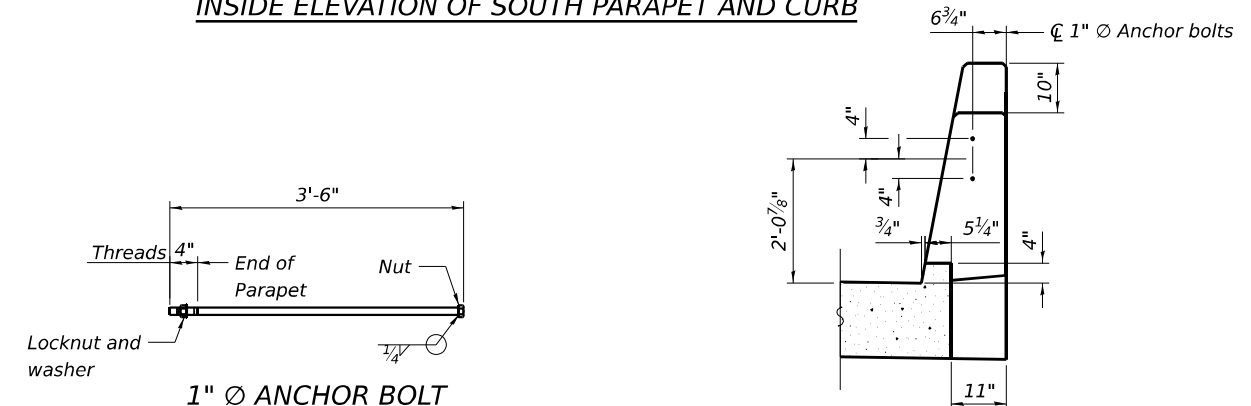
1. For Sections A-A, B-B, Notes, Bill of Material and Detail A, see Sheet SA-56.



INSIDE ELEVATION OF NORTH PARAPET



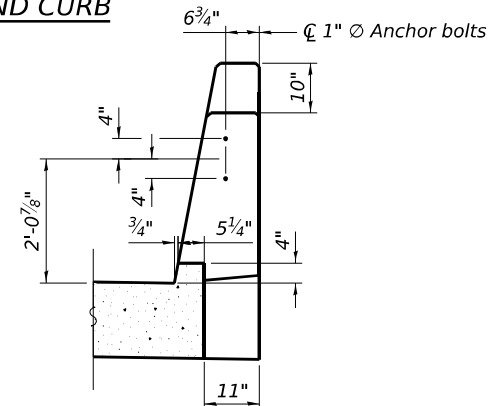
INSIDE ELEVATION OF SOUTH PARAPET AND CURB



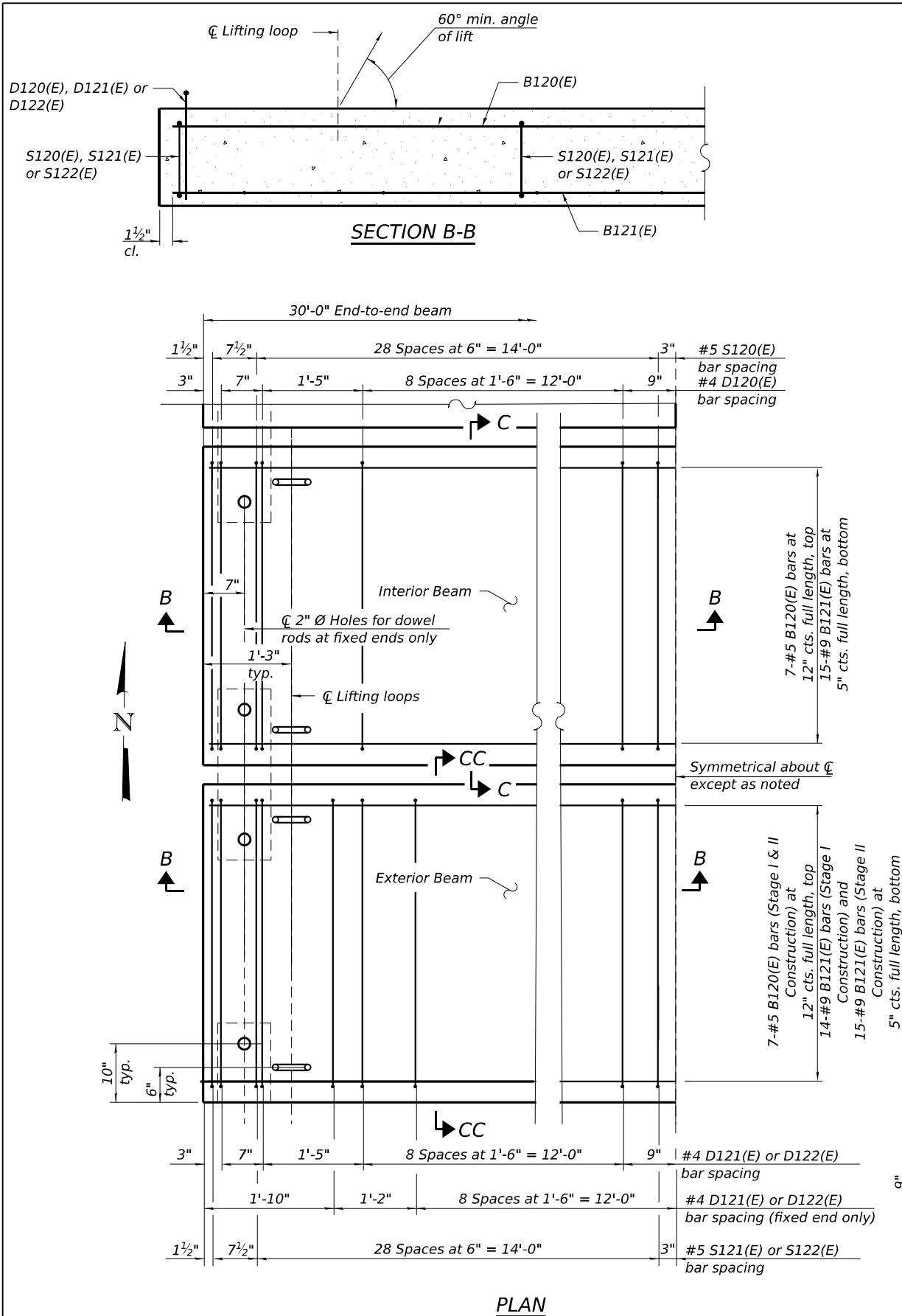
1" Ø ANCHOR BOLT

(Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications. Cost of anchor bolt assemblies included with Concrete Superstructure.)

VIEW C-C

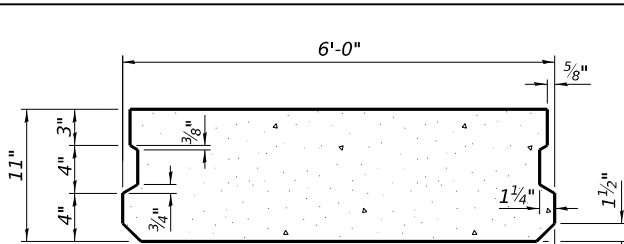


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10/9/2023 3:26:56 PM

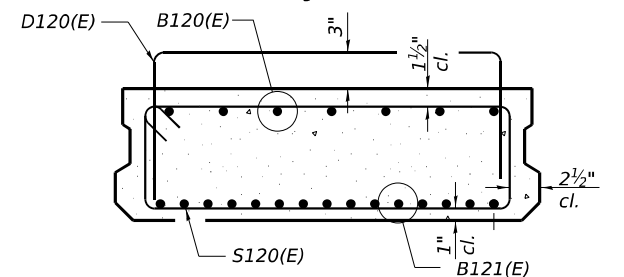


PLAN

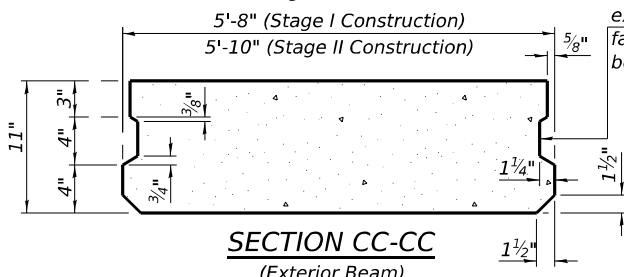
(Beams: 36" min. width; 72" max. width)



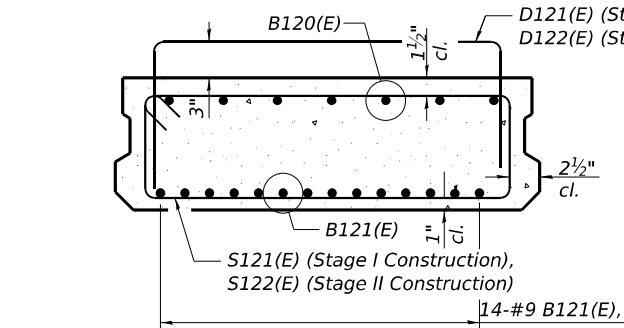
SECTION C-C
(Interior Beam)
(Showing Dimensions)



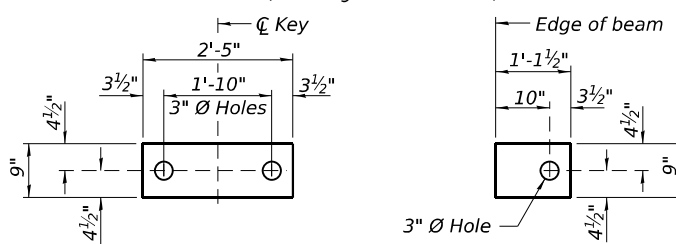
SECTION C-C
(Interior Beam)
(Showing Reinforcement)



SECTION CC-CC
(Exterior Beam)
(Showing Dimensions)



SECTION CC-CC
(Exterior Beam)
(Showing Reinforcement)



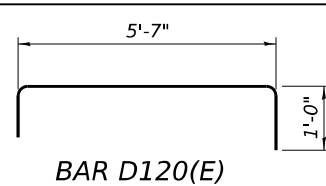
INTERIOR

EXTERIOR

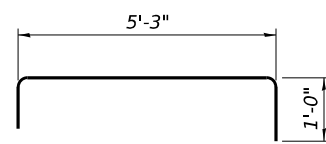
Notes:

Bearing pads at fixed end shall be 1/2" thick and bearing pads at expansion ends shall be 3/4" thick.

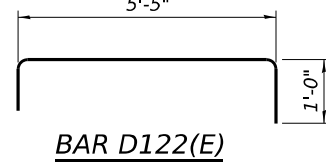
Omit holes for fabric bearing pads at approach slab footing end of beams.



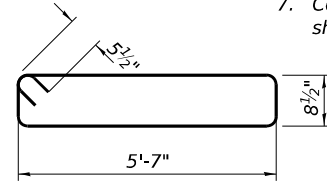
BAR D120(E)



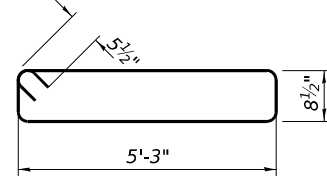
BAR D121(E)



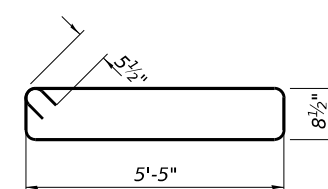
BAR D122(E)



BAR S120(E)



BAR S121(E)



BAR S122(E)

BAR LIST
EACH INTERIOR BEAM
(For information only)

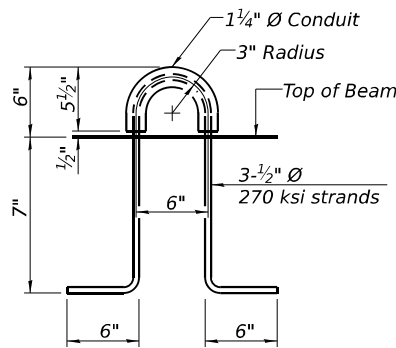
Bar	No.	Size	Length	Shape
B120(E)	7	#5	29'-8"	—
B121(E)	15	#9	29'-8"	—
D120(E)	22	#4	7'-7"	┐
S120(E)	60	#5	13'-6"	▢

BAR LIST
EXTERIOR BEAM
(STAGE I CONSTRUCTION)
(For information only)

Bar	No.	Size	Length	Shape
B120(E)	7	#5	29'-8"	—
B121(E)	14	#9	29'-8"	—
D121(E)	32	#4	7'-3"	┐
S121(E)	60	#5	12'-10"	▢

BAR LIST
EXTERIOR BEAM
(STAGE II CONSTRUCTION)
(For information only)

Bar	No.	Size	Length	Shape
B120(E)	7	#5	29'-8"	—
B121(E)	15	#9	29'-8"	—
D122(E)	32	#4	7'-5"	┐
S122(E)	60	#5	13'-2"	▢



LIFTING LOOP DETAIL

(An alternate lifting loop with a proof load of 25,000 lbs. and utilized according to the manufacturer's recommendations may be used)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB W. PRECAST APPROACH SLAB BEAM DETAILS
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

SHEET SA-55 OF SA-98 SHEETS

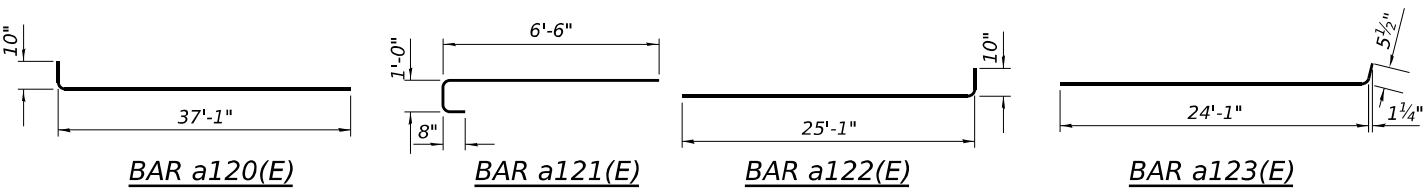
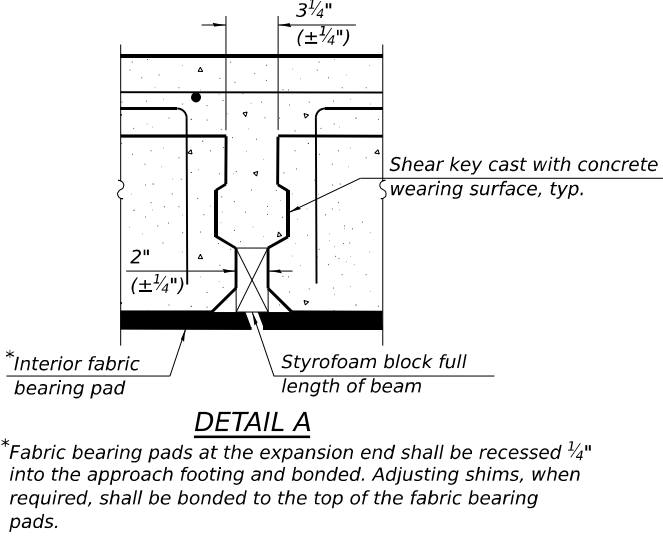
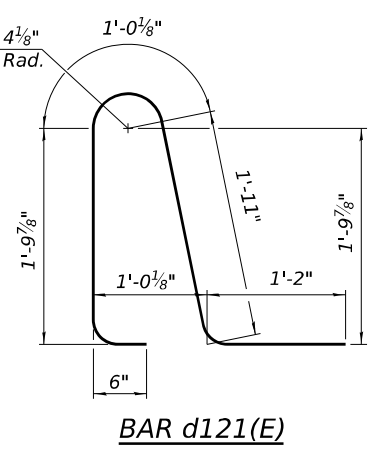
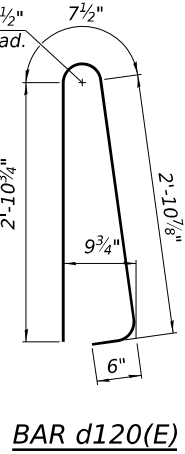
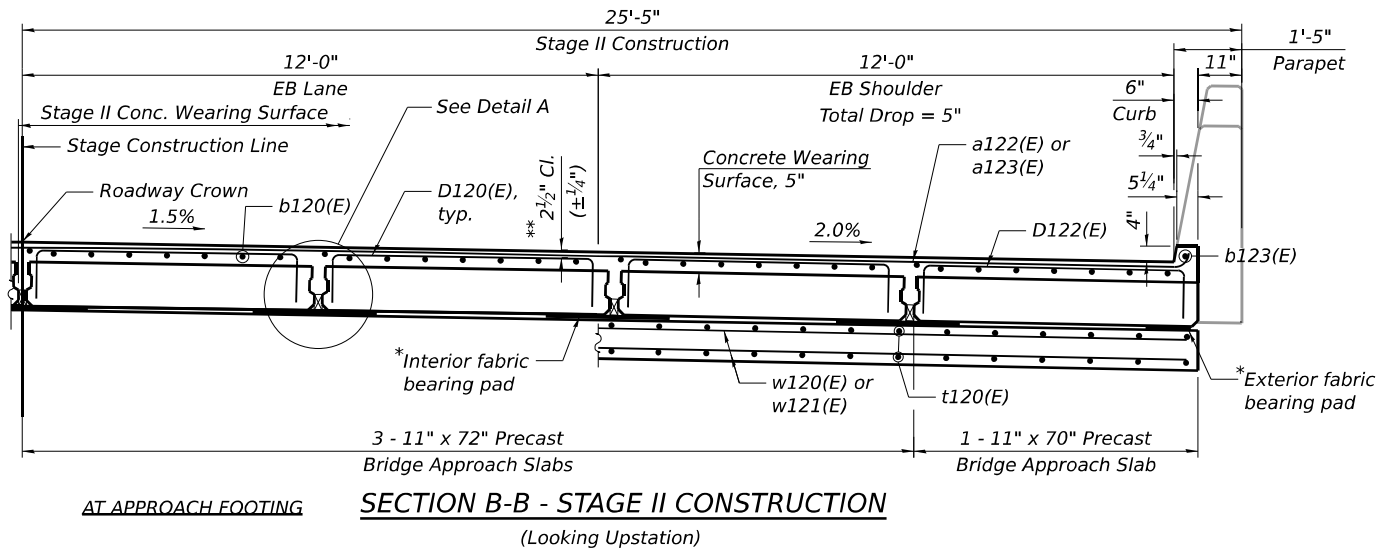
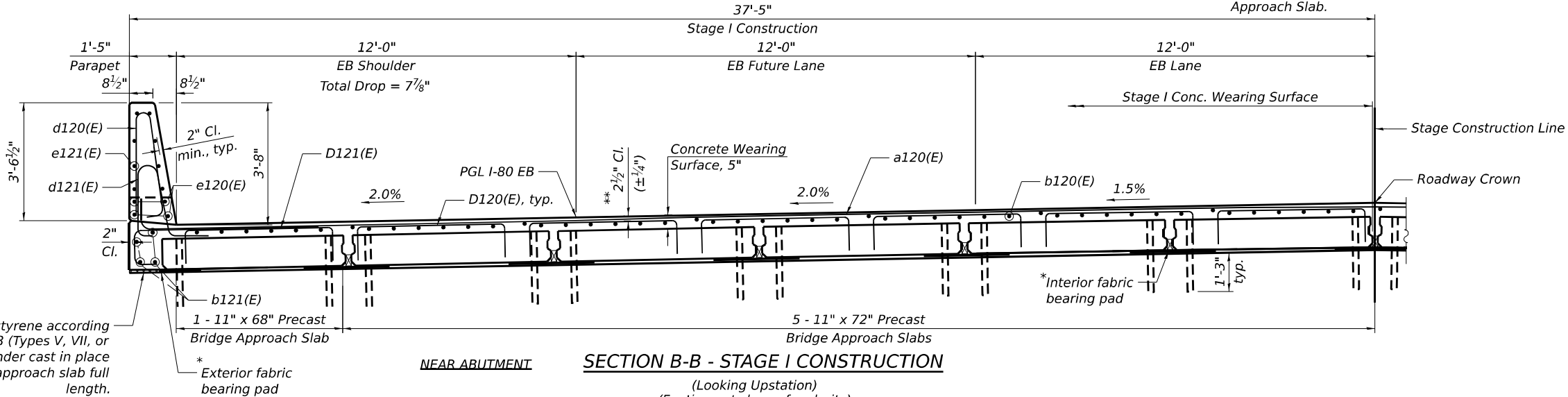
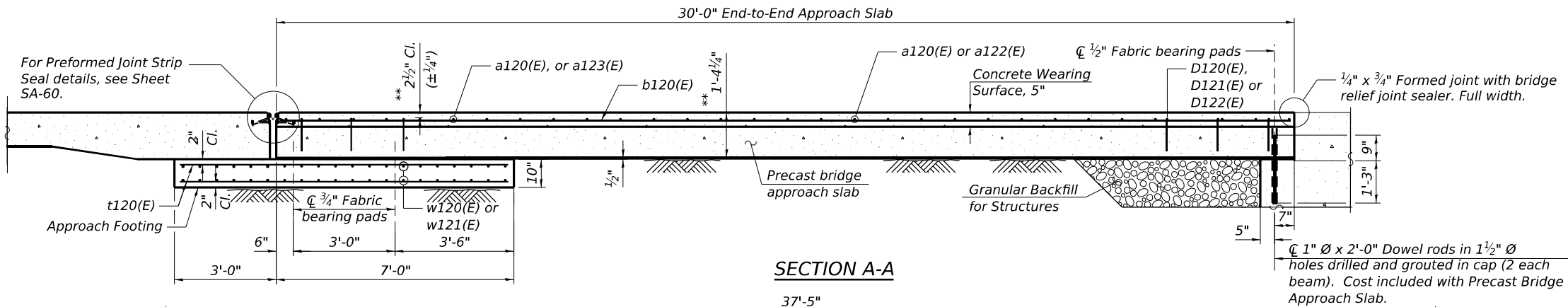
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	588
CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				

HBM
ENGINEERING GROUP, LLC

USER NAME =	DESIGNED - EN	REVISED -
PLOT SCALE =	CHECKED - MI, JJS	REVISED -
PLOT DATE =	DRAWN - EN	REVISED -
	CHECKED - MI, JJS	REVISED -

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a120(E)	32	#5	37'-11"	
a121(E)	48	#5	8'-2"	
a122(E)	16	#5	25'-11"	
a123(E)	16	#5	24'-7"	
b120(E)	65	#4	29'-8"	
b121(E)	4	#5	29'-8"	
b122(E)	4	#5	14'-8"	
b123(E)	1	#4	14'-8"	
d120(E)	69	#5	7'-0"	
d121(E)	69	#5	6'-5"	
e120(E)	4	#4	29'-8"	
e121(E)	28	#4	14'-8"	
t120(E)	130	#4	9'-8"	
w120(E)	40	#5	37'-1"	
w121(E)	40	#5	24'-2"	
Concrete Structures			Cu Yd	19.2
Concrete Superstructure			Cu Yd	6.3
Protective Coat			Sq Yd	222
Reinforcement Bars, Epoxy Coated			Pound	30,710
Bridge Deck Grooving (Longitudinal)			Sq Yd	120
Concrete Wearing Surface, 5"			Sq Yd	220
Precast Bridge Approach Slab			Sq Ft	1872
Diamond Grinding (Bridge Section)			Sq Yd	187



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	CHECKED - MI, JJS	REVISED -
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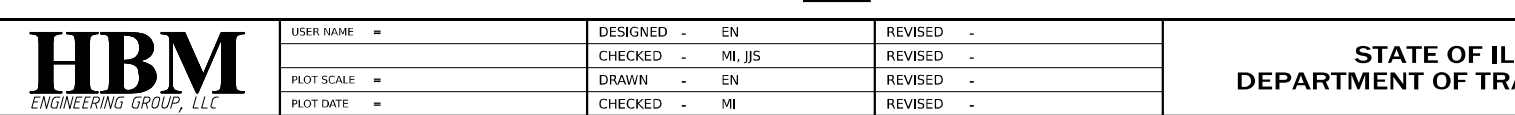
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB W. PRECAST APPROACH SLAB SECTIONS AND DETAILS
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

SHEET SA-56 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	589
CONTRACT NO. 62R28				

ILLINOIS FED. AID PROJECT



<i>East Approach</i>		
<i>Point / Location</i>	<i>Top</i>	<i>Bottom</i>
A - SW	565.19	564.35
B - W CL	565.62	564.78
C - NW	564.96	564.12
D - SE	565.14	564.31
E - E CL	565.57	564.74
F - NE	564.91	564.08

30'-0"

23-#5 d130(E) bars at 8" cts.

(E) bars. See
on near abut
et SA-59

INSIDE ELEVATION OF SOUTH SIDE

End Parapet

15'-0"

bolts for Type 5
connections only, See View
Highway Standard 631026.
Terminal connections, see
standard 631031.

b133(E)

4"

10"

C

INSIDE ELEVATION OF SOUTH SIDE

3'-6"

Threads 4"

End of Parapet

Nut

Locknut and washer

1/4"

1" Ø ANCHOR BOLT

(Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications. Cost of anchor bolt assemblies included with Concrete Superstructure.)

EB E. PRECAST APPROACH SLAB
STRUCTURE NOS. 099-8312 (EB) & 09

SHEET SA-57 OF SA-98 SHEETS

1. For Sections A-A, B-B, Notes, Bill of Material and Detail A, see Sheet SA-59.

End
Approach Slab

23-#5 d130(E) bars at 8" cts.

3-#4 e131(E) bars. See cross section near abutment on Sheet SA-59

APET

End
Bridge Deck

End
Approach Slab

15'-0"

23-#5 d130(E) bars at 8" cts.
Cut last 3 bars to fit taper

fit taper

3'-8"

12-#4 e131(E) bars. See cross section near abut. on Sheet SA-59

AND CURB

6 3/4"

10"

4"

5 1/4"

3 3/4"

4"

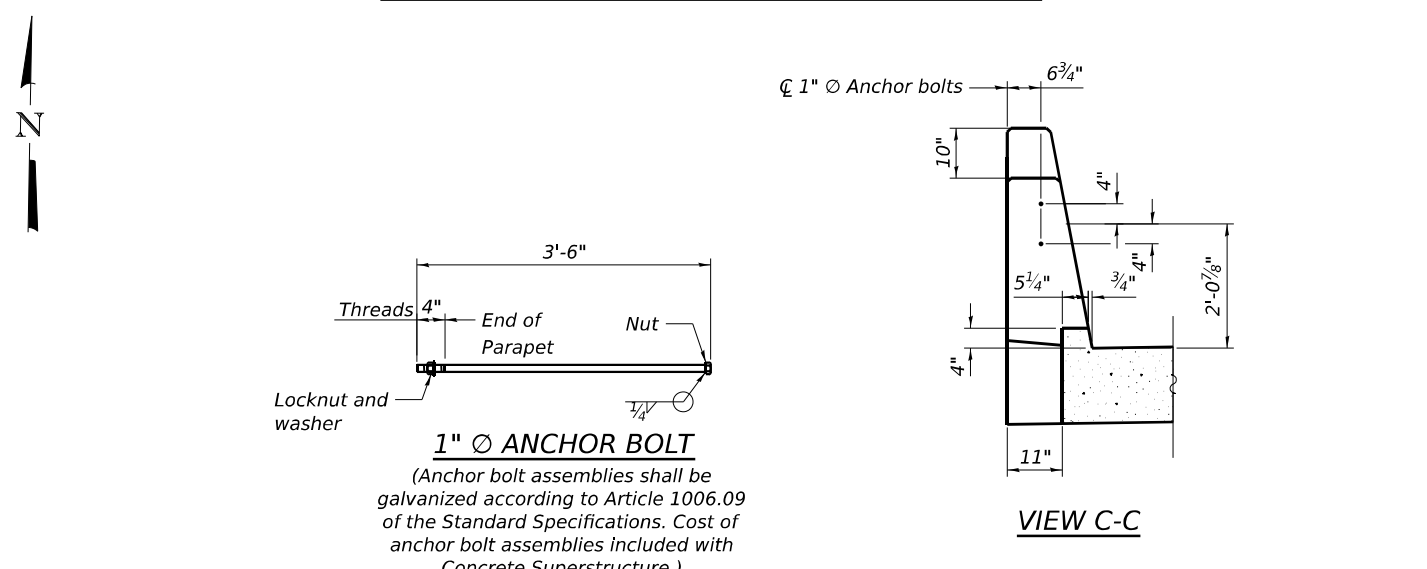
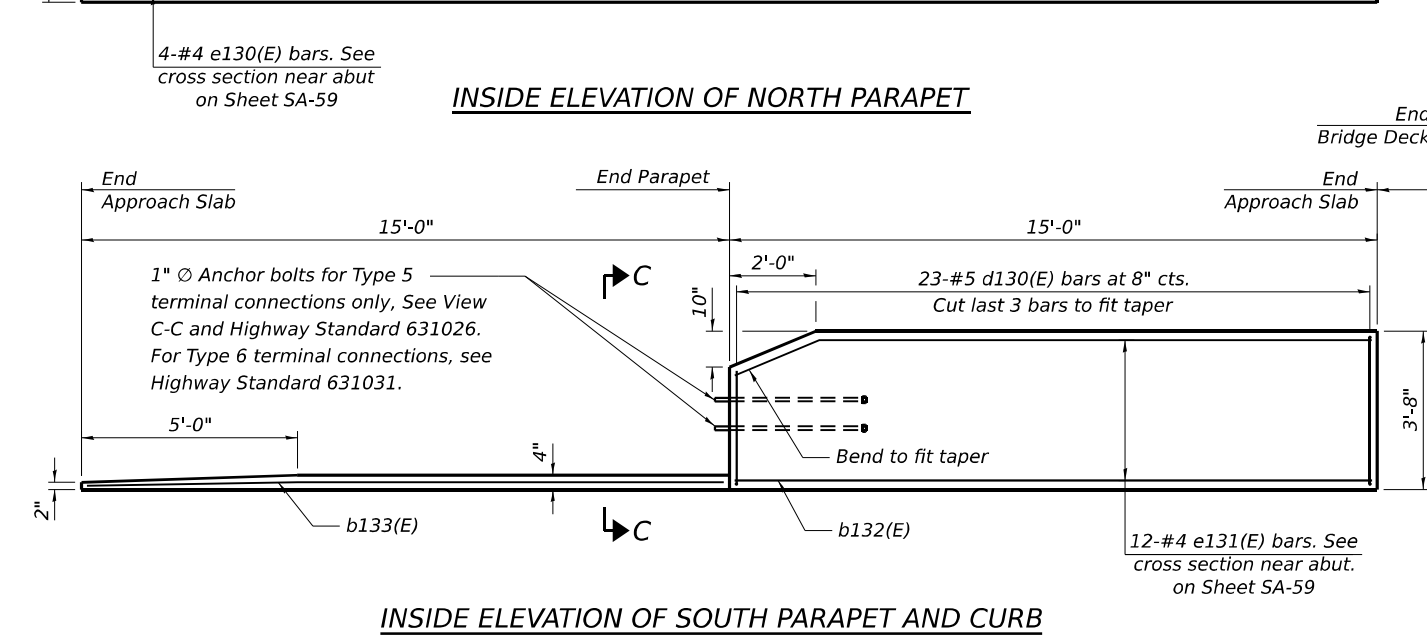
2'-0 7/8"

4"

11"

VIEW C-C

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	590
CONTRACT NO. 62R28				
ILLINOIS		FED. AID PROJECT		





<i>Bar</i>	<i>No.</i>	<i>Size</i>	<i>Length</i>	<i>Shape</i>
<i>a130(E)</i>	32	#5	37'-11"	
<i>a131(E)</i>	48	#5	8'-2"	
<i>a132(E)</i>	16	#5	25'-11"	
<i>a133(E)</i>	16	#5	24'-7"	

$b_{130}(E)$	65	#4	$29^{\circ}-8''$	=====
$b_{131}(E)$	4	#5	$29^{\circ}-8''$	=====
$b_{132}(E)$	4	#5	$14^{\circ}-8''$	=====
$b_{133}(E)$	1	#4	$14^{\circ}-8''$	=====

d130(E)	69	#5	7'-0"	
d131(E)	69	#5	6'-5"	

e130(E)	4	#4	29'-8"	————
e131(E)	28	#4	14'-8"	————

<i>t</i> 130(E)	130	#4	9'-8"	_____

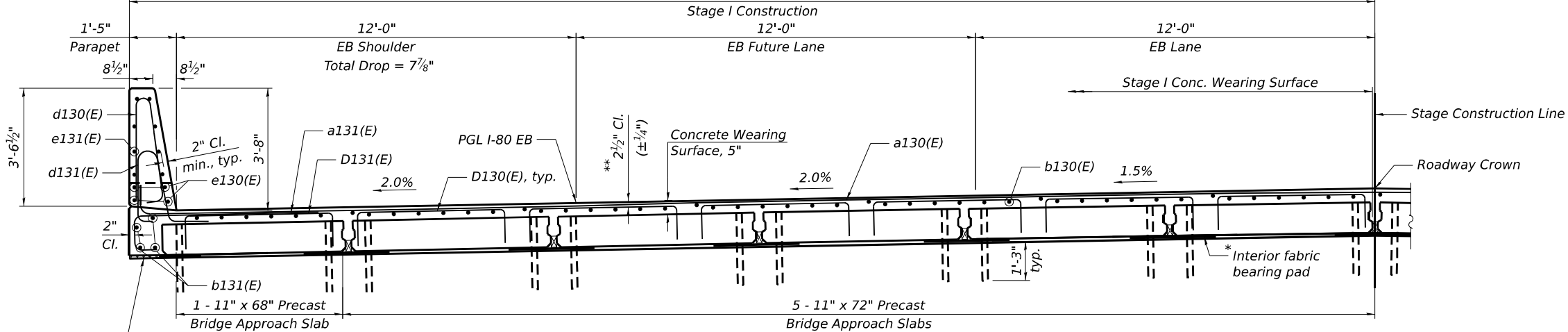
w131(E)	40	#5	24'-2"	————

Concrete Superstructure	Cu Yd	6.3
Protective Coat	Sq Yd	222

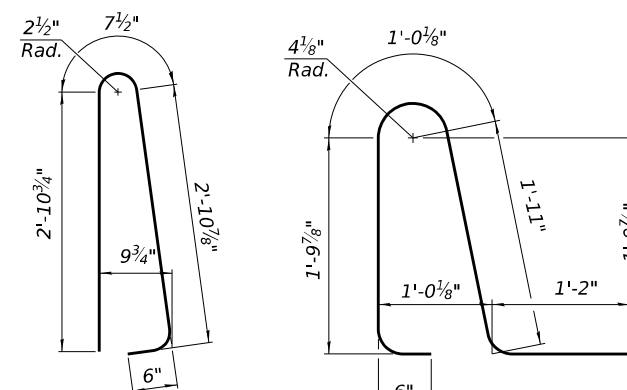
Coated	Pound	30,710
Bridge Deck Grooving (Longitudinal)	Sq Yd	120

Concrete Wearing Surface, 5"	Sq Yd	220
Precast Bridge Approach		

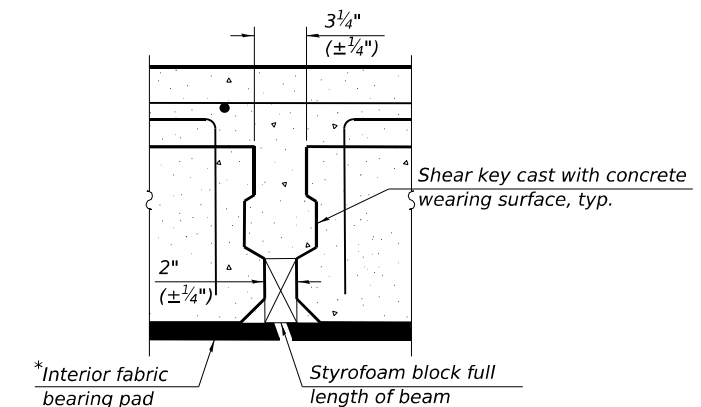
Slab	Sq Ft	1872
Diamond Grinding (Bridge Section)	Sq Yd	187



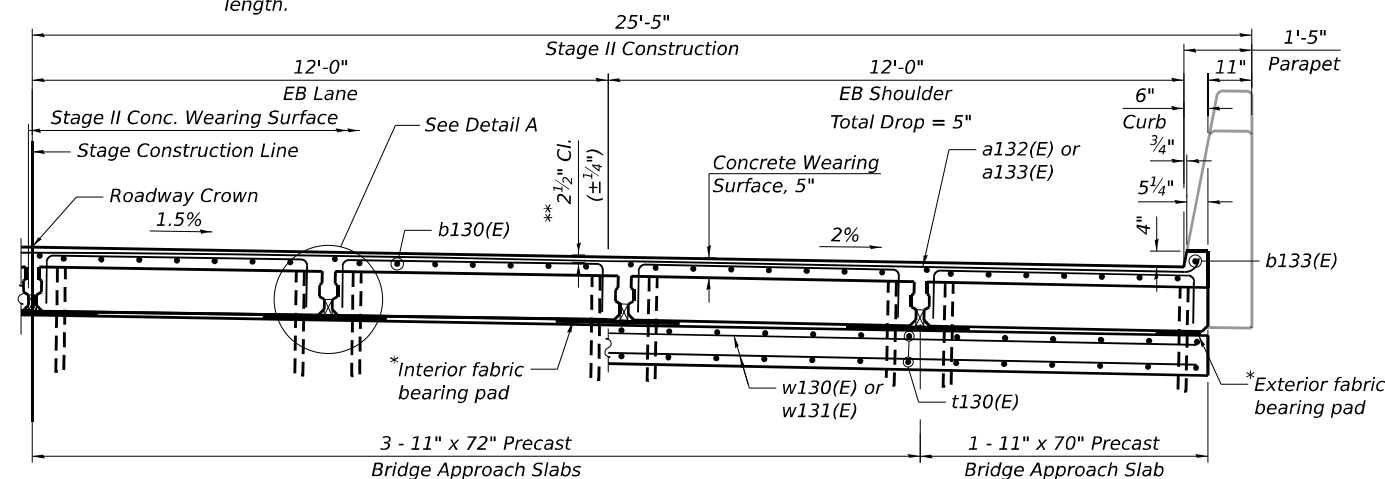
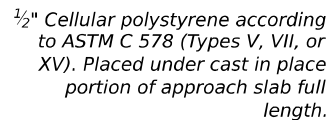
(Looking Upstation)
(Footings not shown for clarity)



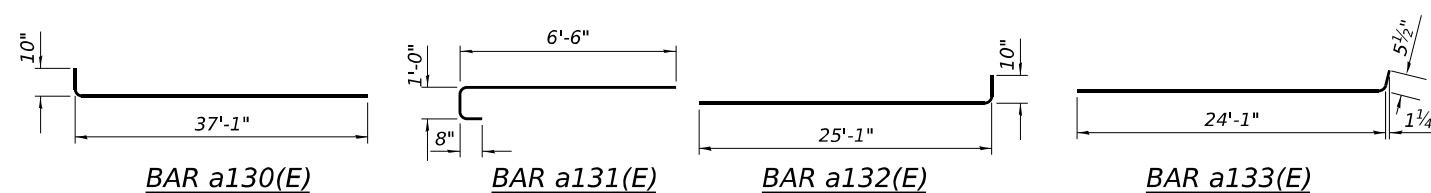
BAR d131(E)



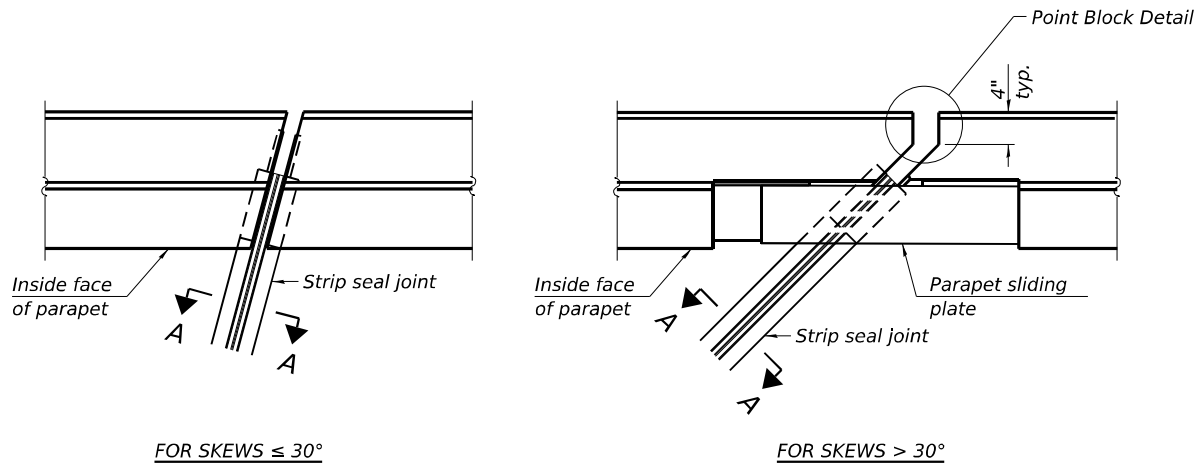
*Fabric bearing pads at the expansion end shall be recessed $\frac{3}{4}$ " into the approach footing and bonded. Adjusting shims, when required, shall be bonded to the top of the fabric bearing pads.



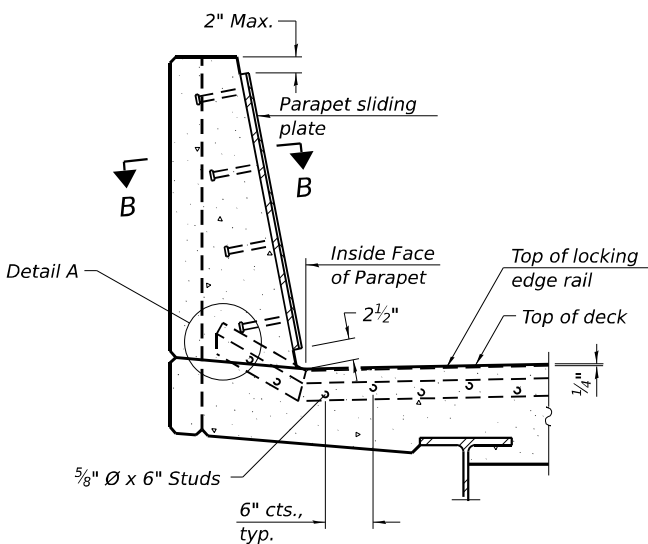
(Looking Upstation)



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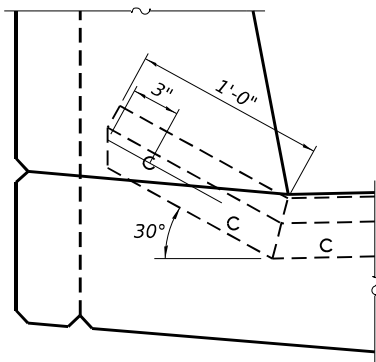


PLAN AT PARAPET

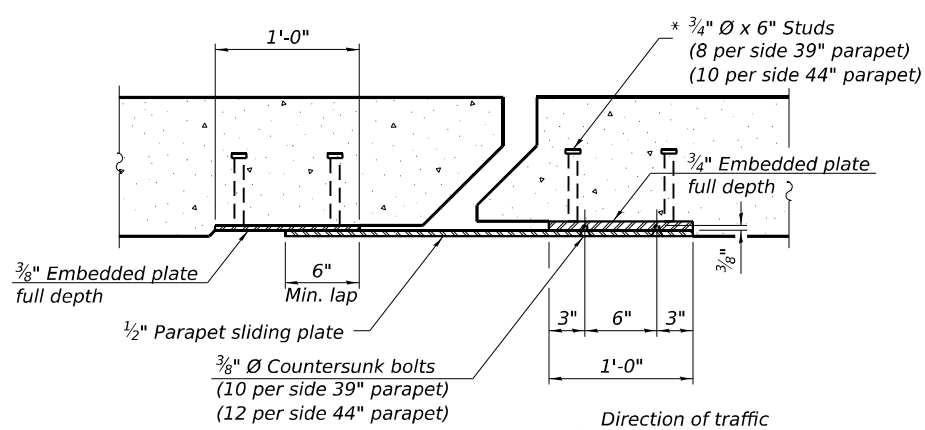


SECTION AT PARAPET

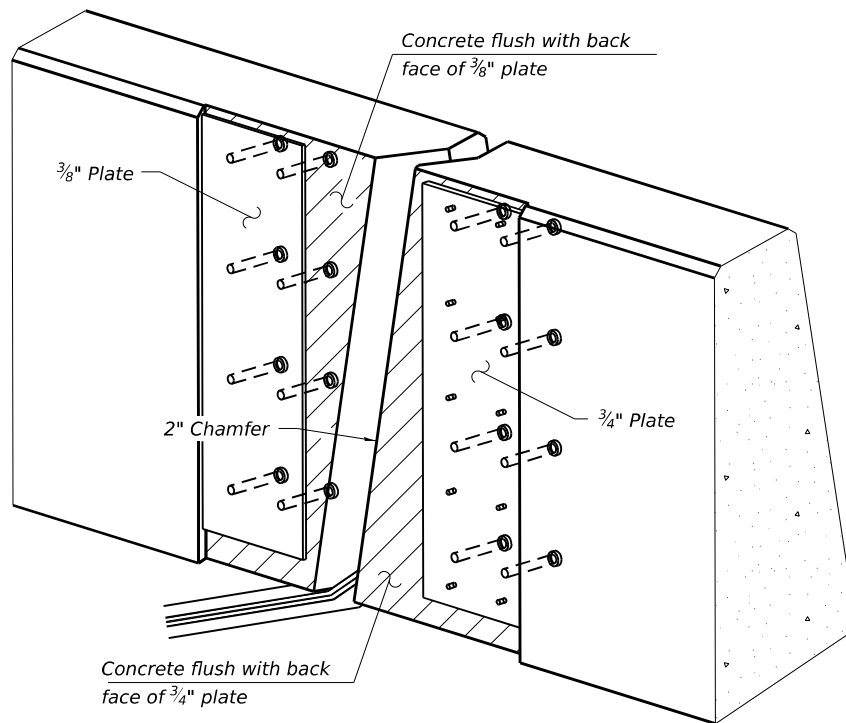
(Skews $> 30^\circ$ shown. Skews $\leq 30^\circ$ similar except as shown in plan view.)



DETAIL A

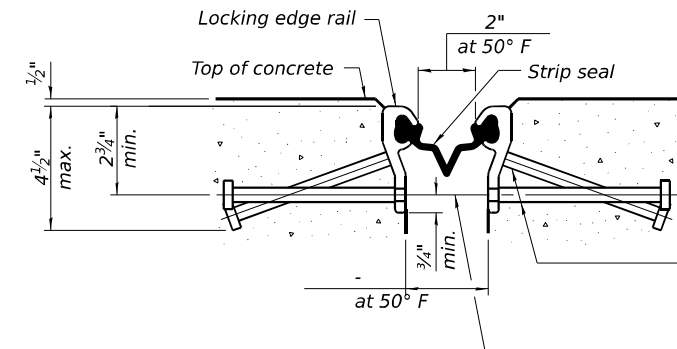


SECTION B-B



TRIMETRIC VIEW

(Showing embedded plates only)



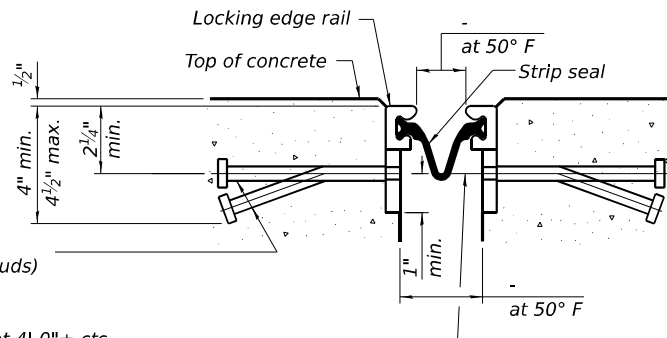
SHOWING ROLLED RAIL JOINT

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

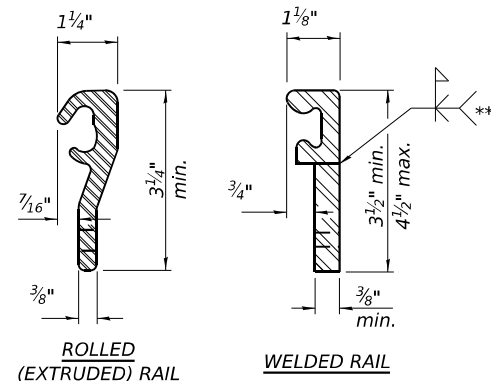
3/8" $\varnothing$ threaded rods in 7/16" $\varnothing$ holes at 4'-0" $\pm$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

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

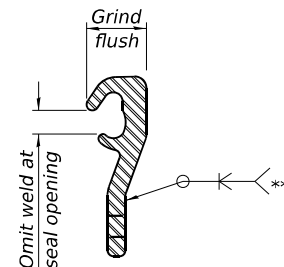


SHOWING WELDED RAIL JOINT



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.

EB APPROACH SLABS
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Preformed Joint Strip Seal	Foot	123

WB APPROACH SLABS
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Preformed Joint Strip Seal	Foot	133



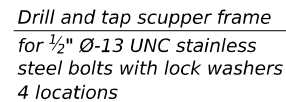
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	CHECKED - MI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MODIFIED PREFORMED JOINT STRIP SEAL
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

SHEET SA-60 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	593
				CONTRACT NO. 62R28
		ILLINOIS	FED. AID PROJECT	



Technical drawing of a mechanical part with the following dimensions and features:

- Overall width: $7\frac{1}{2}"$
- Segment 1 (left): width $2"$, height $1\frac{3}{16}"$, radius $\frac{3}{4}" R$, 5° Draft.
- Segment 2: width $2\frac{3}{16}"$, radius $2\frac{1}{8}" R$, 5° Draft.
- Segment 3: width $1\frac{7}{16}"$, radius $\frac{1}{4}" R$, 5° Draft.
- Segment 4 (right): width $1\frac{7}{8}"$, height $1\frac{1}{4}"$, radius $\frac{1}{4}" R$.
- Bottom features:
 - Left: $3" R$ radius, 5° Draft.
 - Middle: $\frac{1}{2}"$ width, 10° Draft.
 - Right: $\frac{7}{8}"$ width, 5° Draft.

Technical drawing of a mechanical part with dimensions: $1\frac{1}{2}"$, $1\frac{1}{4}"$, $\frac{1}{8}"$ R typ., $\frac{1}{2}"$, and $\frac{5}{8}"$.

The technical drawing consists of two views of a mechanical component:

- Top View:** Shows a rectangular plate with overall dimensions of $9\frac{1}{4}"$ by $7\frac{3}{4}"$. There are four corner slots, each measuring $\frac{3}{4}"$ wide and $1\frac{1}{8}"$ deep. The distance between the inner edges of opposite slots is $7\frac{1}{2}"$.
- Side View:** Shows the profile of the component with a total height of $2"$. It features a central raised section and two side flanges. The width of the side flanges is $1\frac{1}{4}"$. A note points to the side flange area: "Drill and ream for $\frac{1}{2}" \varnothing$ ".

Drill and tap 4 holes $\frac{1}{2}$ " deep
for $\frac{1}{2}$ " Ø-13 UNC bolts.



Cost of the grate, frame, downspout, anchor rods, nuts and washers including complete installation of the scupper shall be paid for at the contract unit price for Drainage Scuppers, DS-11.

S.N. 099-8313 (WB)

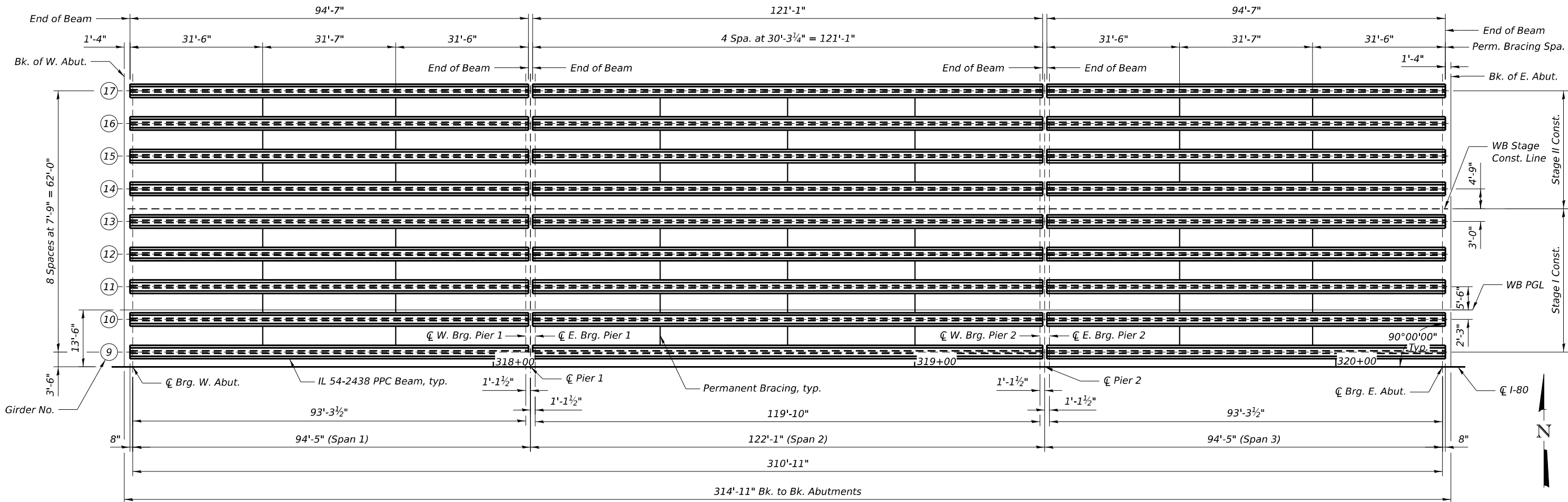
ITEM	UNIT	TOTAL
Drainage Scuppers, DS-11	Each	2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB DRAINAGE SCUPPER, DS-11
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	594
		CONTRACT NO. 62R28		
ILLINOIS		FED. AID PROJECT		

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FRAMING PLAN

EXTERIOR BEAM MOMENT TABLE				
	0.4 Sp. 1 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2	
I	(in ⁴)	295,427	295,427	295,427
I'	(in ⁴)	721,953	721,953	721,953
S _b	(in ³)	13,552	13,552	13,552
S _b '	(in ³)	20,333	20,333	20,333
S _t	(in ³)	9,175	9,175	9,175
S _t '	(in ³)	39,039	39,039	39,039
DC1	(k')	1.728	-	1.728
M _{DC1}	('k)	1,925	0	3,219
DC2	(k')	0.263	0.263	0.263
M _{DC2}	('k)	157	-315	175
DW	(k')	0.294	0.294	0.294
M _{DW}	('k)	176	-356	197
LLDF		0.735	0.735	0.735
M _L + IM	('k)	1,575	-1,733	1,681

INTERIOR BEAM MOMENT TABLE				
	0.4 Sp. 1 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2	
I	(in ⁴)	295,427	295,427	295,427
I'	(in ⁴)	738,291	738,291	738,291
S _b	(in ³)	13,552	13,552	13,552
S _b '	(in ³)	20,491	20,491	20,491
S _t	(in ³)	9,175	9,175	9,175
S _t '	(in ³)	41,084	41,084	41,084
DC1	(k')	1.715	-	1.715
M _{DC1}	('k)	1,912	0	3,196
DC2	(k')	0.158	0.158	0.158
M _{DC2}	('k)	95	-190	105
DW	(k')	0.388	0.388	0.388
M _{DW}	('k)	232	-465	257
LLDF		0.679	0.655	0.635
M _L + IM	('k)	1,455	-1,544	1,452

EXTERIOR BEAM REACTION TABLE				
	Abutments	Pier 1 Span 1 Pier 2 Span 3	Pier 1 Span 2 Pier 2 Span 2	
LLDF	0.735	0.735	0.735	
OCF	-	-	-	
* R _{DC1}	(k)	84.4	81.6	105.5
** R _{DC2}	(k)	9	16	16
** R _{DW}	(k)	10.3	18.1	18.1
** R _L + IM	(k)	82.2	77.3	77.3
R _{Total} (Strength I) (Impact)	(k)	272.6	284.4	314.3
R _{Total} (Strength I) (No Impact)	(k)	245.8	264.0	293.8

* Includes dead load reaction of approach slab with approach parapets

** At continuous piers, reactions from composite loads are assumed to be equally distributed to each bearing line.

INTERIOR BEAM REACTION TABLE				
	Abutments	Pier 1 Span 1 Pier 2 Span 3	Pier 1 Span 2 Pier 2 Span 2	
LLDF	0.797	0.797	0.797	
OCF	-	-	-	
* R _{DC1}	(k)	83.9	81	104.7
** R _{DC2}	(k)	5.5	9.6	9.6
** R _{DW}	(k)	13.6	23.8	23.8
** R _L + IM	(k)	89.2	83.8	83.8
R _{Total} (Strength I) (Impact)	(k)	284.6	295.6	325.2
R _{Total} (Strength I) (No Impact)	(k)	255.4	273.4	303.0

I: Non-composite moment of inertia of beam section (in.⁴).
I': Composite moment of inertia of beam section (in.⁴).
S_b: Non-composite section modulus for the bottom fiber of the prestressed beam (in.³).
S_b': Composite section modulus for the bottom fiber of the prestressed beam (in.³).
S_t: Non-composite section modulus for the top fiber of the prestressed beam (in.³).
S_t': Composite section modulus for the top fiber of the prestressed beam (in.³).
DC1: Un-factored non-composite dead load (kips/ft.).
M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.
M_L + IM: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
OCF: Obtuse Correction Factor computed according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.
R_{DC1}: Un-factored reaction due to non-composite dead load (kip).
R_{DC2}: Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).
R_{DW}: Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).
R_L: Un-factored live load reaction (kip).
R_{IM}: Un-factored dynamic load allowance (impact) (kip).
R_{Total} (Strength I) (Impact): Total factored reaction including dynamic load allowance (impact) (kip).
R_{Total} (Strength I) (No Impact): Total factored reaction not including dynamic load allowance (impact) (kip).



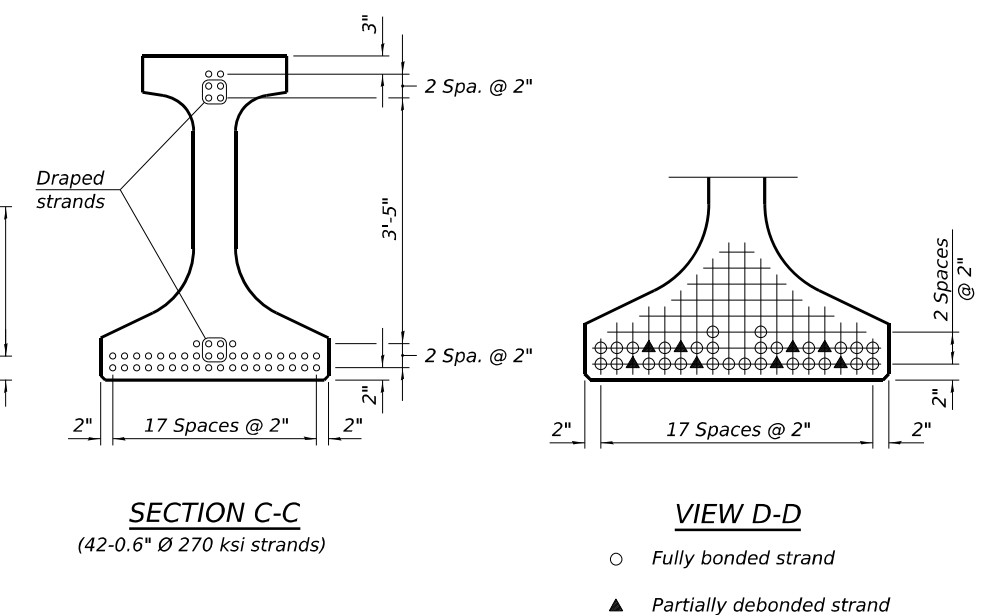
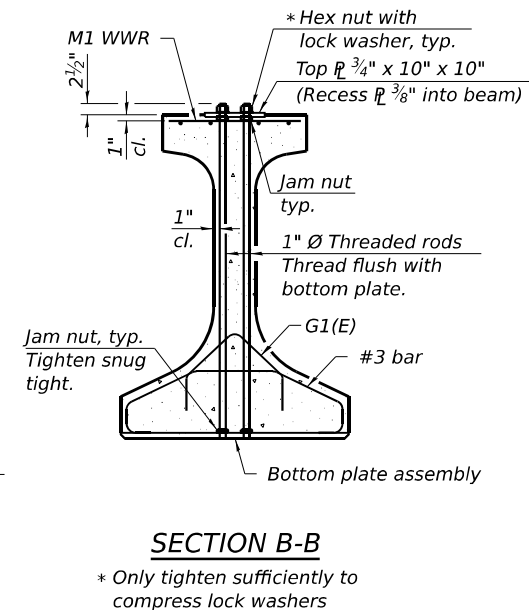
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PLOT DATE =	CHECKED - MI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WB I-80 FRAMING PLAN
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

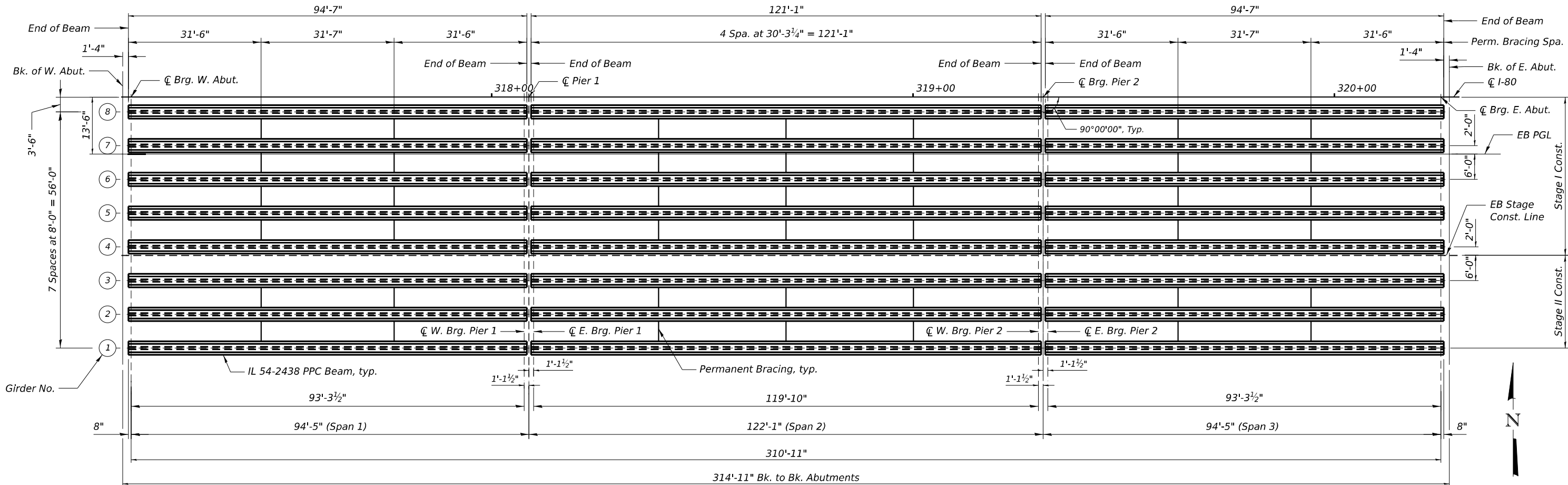
SHEET SA-62 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	595
CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	597
		CONTRACT NO. 62R28		
ILLINOIS		FED. AID PROJECT		

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FRAMING PLAN

EXTERIOR BEAM MOMENT TABLE				
	0.4 Sp. 1 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2	
I	(in ⁴) 295,427	295,427	295,427	
I'	(in ⁴) 726,485	726,485	726,485	
S _b	(in ³) 13,552	13,552	13,552	
S _b '	(in ³) 20,377	20,377	20,377	
S _t	(in ³) 9,175	9,175	9,175	
S _t '	(in ³) 39,595	39,595	39,595	
DC1	(k/ft) 1.740	-	1.740	
M _{DC1}	(k) 1,934	0	3,124	
DC2	(k/ft) 0.263	0.263	0.263	
M _{DC2}	(k) 157	-315	175	
DW	(k/ft) 0.300	0.300	0.300	
M _{DW}	(k) 179	-363	201	
LLDF	0.750	0.750	0.750	
M _L + IM	(k) 1,607	-1,769	1,715	

INTERIOR BEAM MOMENT TABLE				
	0.4 Sp. 1 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2	
I	(in ⁴) 295,427	295,427	295,427	
I'	(in ⁴) 746,891	746,891	746,891	
S _b	(in ³) 13,552	13,552	13,552	
S _b '	(in ³) 20,573	20,573	20,573	
S _t	(in ³) 9,175	9,175	9,175	
S _t '	(in ³) 42,209	42,209	42,209	
DC1	(k/ft) 1.740	-	1.740	
M _{DC1}	(k) 1,934	0	3,124	
DC2	(k/ft) 0.158	0.158	0.158	
M _{DC2}	(k) 95	-190	105	
DW	(k/ft) 0.400	0.400	0.400	
M _{DW}	(k) 242	-484	268	
LLDF	0.695	0.670	0.649	
M _L + IM	(k) 1,489	-1,580	1,484	

EXTERIOR BEAM REACTION TABLE				
	Abutments	Pier 1 Span 1 Pier 2 Span 3	Pier 1 Span 2 Pier 2 Span 2	
LLDF	0.750	0.750	0.750	
OCF	-	-	-	
* R _{DC1}	(k) 86.1	83	106	
** R _{DC2}	(k) 9	16	16	
** R _{DW}	(k) 10.5	18.4	18.4	
** R _L + IM	(k) 84	79	79	
R _{Total} (Strength I)(Impact)	(k) 277.8	289.6	318.4	
R _{Total} (Strength I)(No Impact)	(k) 250.2	268.8	297.35	

INTERIOR BEAM REACTION TABLE				
	Abutments	Pier 1 Span 1 Pier 2 Span 3	Pier 1 Span 2 Pier 2 Span 2	
LLDF	0.814	0.814	0.814	
OCF	-	-	-	
* R _{DC1}	(k) 85.1	81.8	104.9	
** R _{DC2}	(k) 5.5	9.6	9.6	
** R _{DW}	(k) 14.0	24.5	24.5	
** R _L + IM	(k) 91.1	85.6	85.6	
R _{Total} (Strength I)(Impact)	(k) 289.6	300.8	329.7	
R _{Total} (Strength I)(No Impact)	(k) 259.8	276.7	305.6	

* Includes dead load reaction of approach slab and approach parapets
** At continuous piers, reactions from composite loads are assumed to be equally distributed to each bearing line.

I: Non-composite moment of inertia of beam section (in.⁴).
I': Composite moment of inertia of beam section (in.⁴).
S_b: Non-composite section modulus for the bottom fiber of the prestressed beam (in.³).
S_b': Composite section modulus for the bottom fiber of the prestressed beam (in.³).
S_t: Non-composite section modulus for the top fiber of the prestressed beam (in.³).
S_t': Composite section modulus for the top fiber of the prestressed beam (in.³).
DC1: Un-factored non-composite dead load (kips/ft.).
M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.
M_L + IM: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
OCF: Obtuse Correction Factor computed according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.
R_{DC1}: Un-factored reaction due to non-composite dead load (kip).
R_{DC2}: Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).
R_{DW}: Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).
R_L: Un-factored live load reaction (kip).
R_{IM}: Un-factored dynamic load allowance (impact) (kip).
R_{Total} (Strength I)(Impact): Total factored reaction including dynamic load allowance (impact) (kip).
R_{Total} (Strength I)(No Impact): Total factored reaction not including dynamic load allowance (impact) (kip).



USER NAME =	DESIGNED - JJS, PG	REVISED -
	CHECKED - MI	REVISED -
PLOT SCALE =	DRAWN - JJS	REVISED -
PLOT DATE =	CHECKED - MI	REVISED -

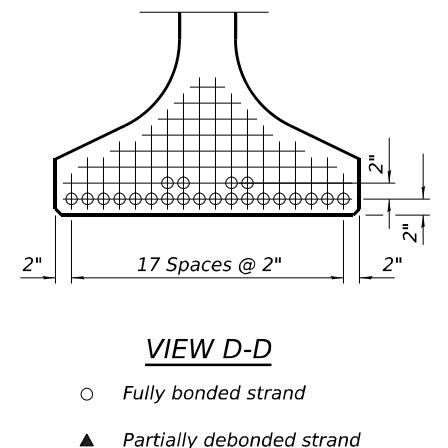
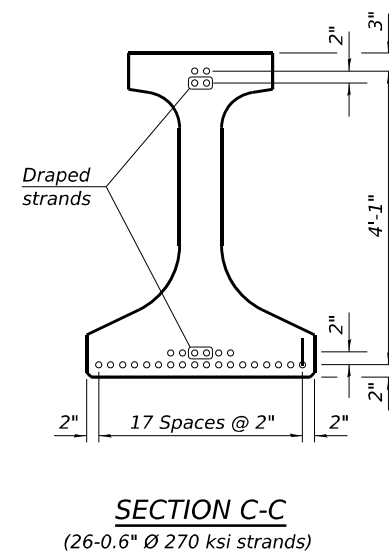
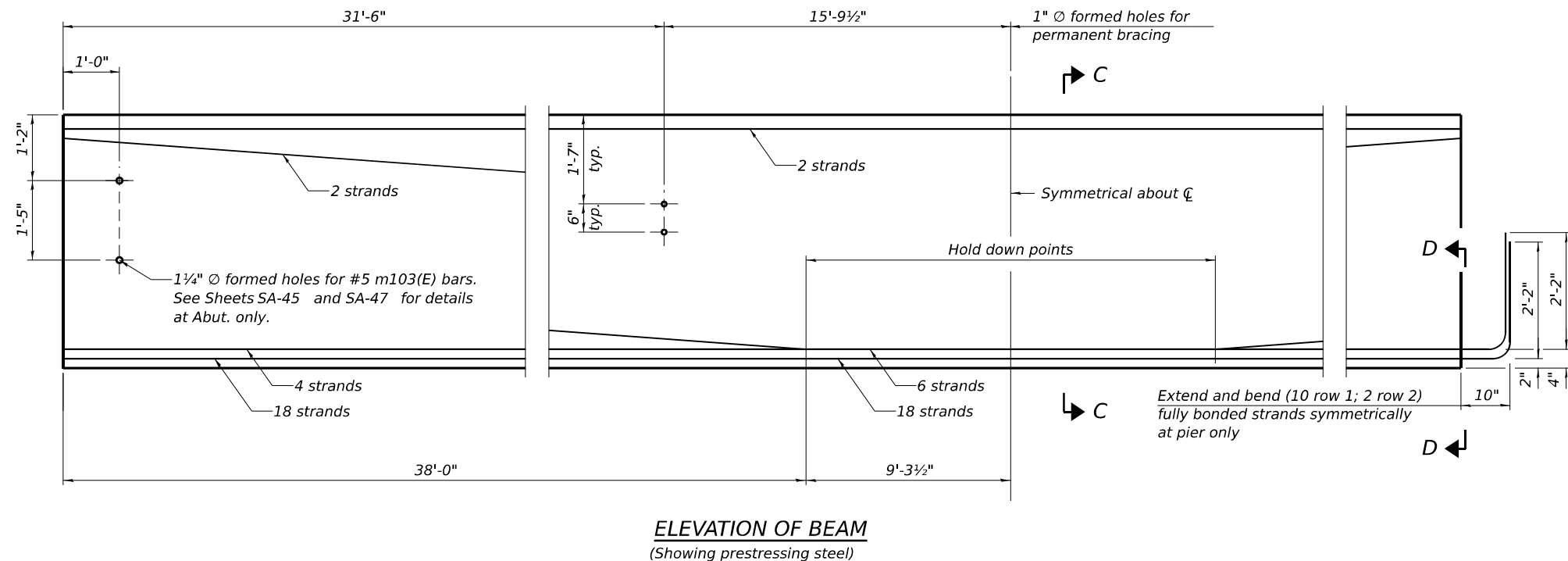
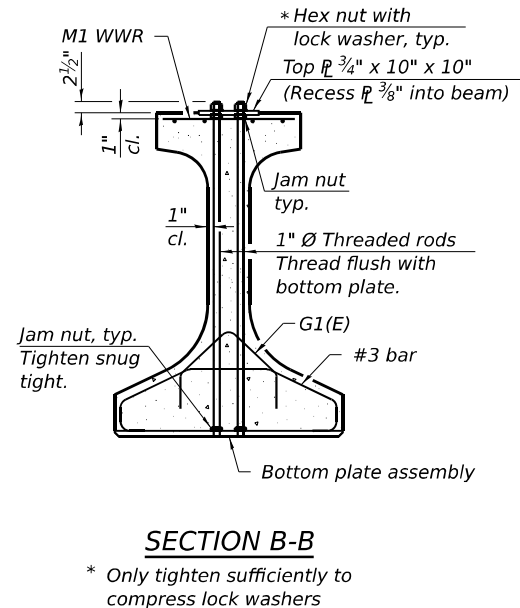
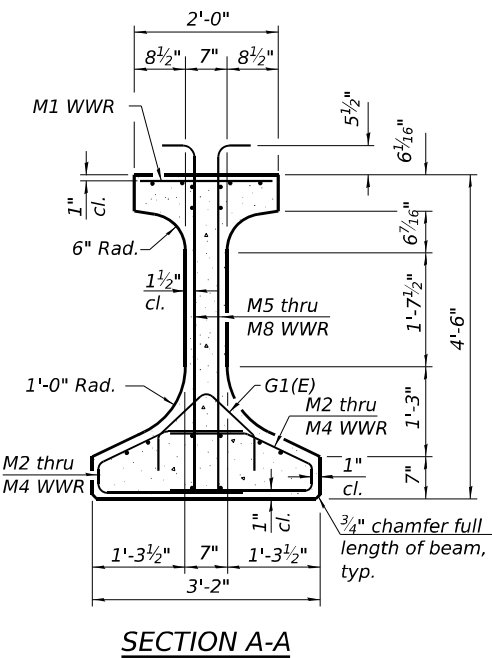
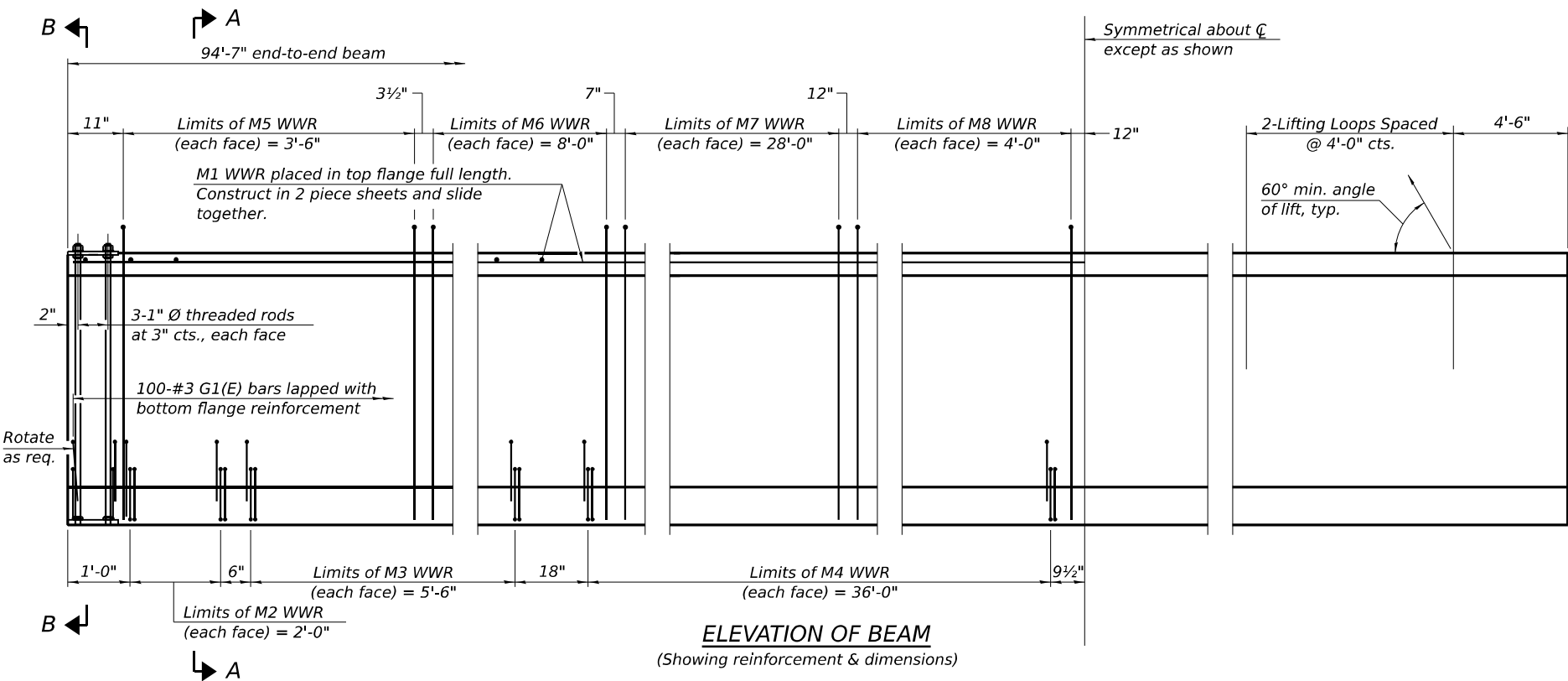
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB I-80 FRAMING PLAN
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

SHEET SA-66 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	599
CONTRACT NO. 62R28				
ILLINOIS		FED. AID PROJECT		

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NOTE:

1. See Sheet SA-69 for additional details and Bill of Material.

IL54-2438

8-13-2021

HBM
ENGINEERING GROUP, LLC

USER NAME =	DESIGNED - JJS, PG	REVISED -
	CHECKED - MI	REVISED -
PLOT SCALE =	DRAWN - JJS	REVISED -
PLOT DATE =	CHECKED - MI	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EB I-80 IL54-2438 PPC I-BEAM (SPANS 1 AND 3)
STRUCTURE NOS. 099-8312 (EB) & 099-8313 (WB)

SHEET SA-67 OF SA-98 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-80	FAI 80 21 STRUCTURE 7	WILL	1059	600
CONTRACT NO. 62R28				
ILLINOIS FED. AID PROJECT				