

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

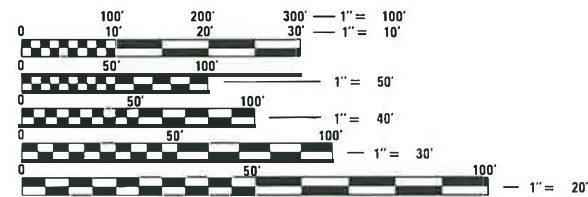
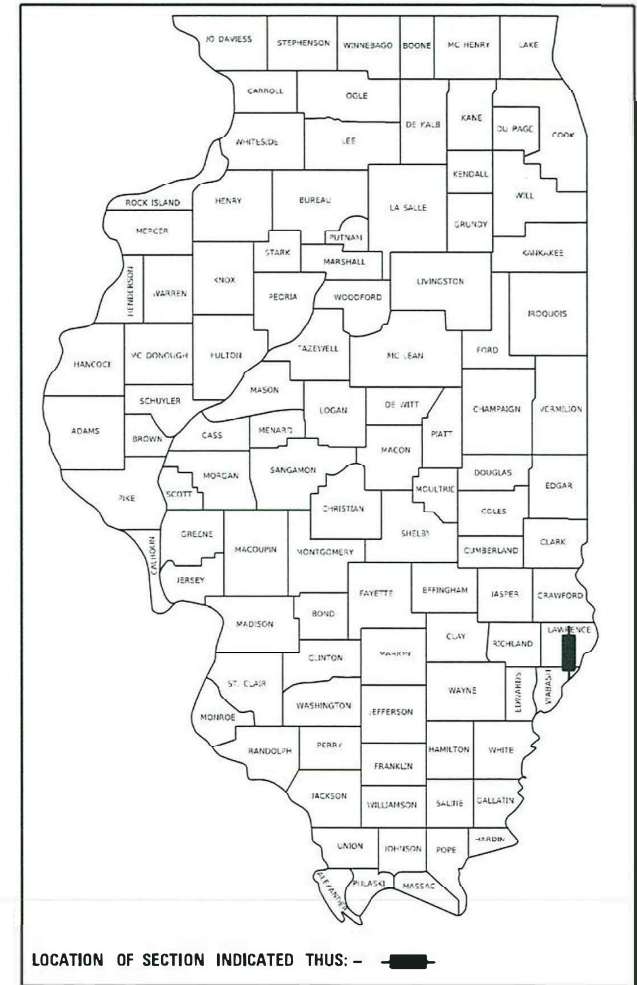
**PROPOSED  
HIGHWAY PLANS**

F.A.P. 332 (IL ROUTE 1)  
SECTION (15BY)BR  
PROJECT NHPP-8JWU(669)  
BRIDGE REPLACEMENT  
LAWRENCE COUNTY  
C-97-086-18

OLD STRUCTURE # 051-0008  
NEW STRUCTURE # 051-2010  
STATION 891 + 00

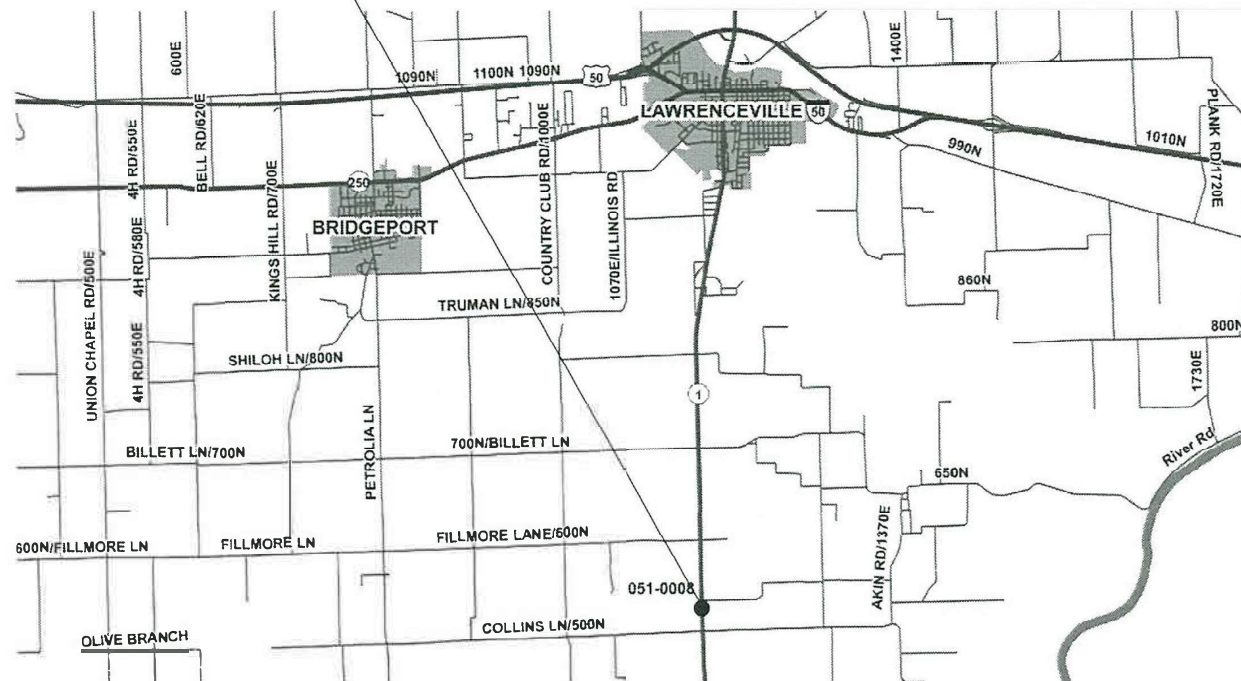
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15BY)BR	LAWRENCE	38	1
		ILLINOIS	CONTRACT NO. 74860	

D-97-047-18



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

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS  
1-800-892-0123  
OR 811



GROSS LENGTH = 800 FT. = 0.15 MILE  
NET LENGTH = 800 = 0.15 MILE

PROJECT ENGINEER: BRIAN LEWIS 217-342-8360  
PROJECT MANAGER: MYRA OLTMAN 217-342-8246

CONTRACT NO. 74860

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 26 2021  
Jeffrey P. Myrlo  
REGIONAL ENGINEER

December 10 2021  
[Signature]  
ENGINEER OF DESIGN AND ENVIRONMENT

December 10 2021  
[Signature]  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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### GENERAL NOTES

THE WORK INCLUDED IN THIS SECTION CONSISTS OF COMPLETE REMOVAL OF THE EXISTING STRUCTURE #051-0008, ON FAP ROUTE 332 (IL ROUTE 1) AND REPLACEMENT WITH A CAST IN PLACE TRIPLE 10'X10' BOX CULVERT STRUCTURE # 051-2010, PCC SHOULDER WIDENING, PCC PAVEMENT, GUARDRAIL REMOVAL AND REPLACEMENT, RELOCATION OF FIELD ENTRANCE, PIPE CULVERT REPLACEMENT INCLUDING FLARED END SECTIONS, PAINT PAVEMENT MARKING, SEEDING, EROSION CONTROL, AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION. STAGE CONSTRUCTION WILL BE UTILIZED.

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIAL. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

PAINT PAVEMENT MARKING LINE - 4" SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS, AS SHOWN IN THE PLANS, AND AS DETERMINED BY THE ENGINEER. THE TOTAL QUANTITY CALCULATED CONSISTS OF 775 FEET OF YELLOW AND 1934 FEET OF WHITE.

### INDEX OF SHEETS

SHEET NO.	TITLE
1	COVER SHEET
2	GENERAL NOTES, INDEX OF SHEETS
3-4	SUMMARY OF QUANTITIES
5	TYPICAL SECTION
6	GUARDRAIL DETAILS, SCHEDULE & SCHEDULE OF QUANTITIES
7	PLAN SHEET
8	SEQUENCE OF OPERATONS
9-10	STAGE CONSTRUCTION DETAILS
11	RURAL RECONSTRUCTION ENTRANCE DETAILS AND SCHEDULE
12-15	PAVEMENT MARKING DETAILS
16-25	STRUCTURE REPLACEMENT PLAN SHEETS
26-38	CROSS SECTION SHEETS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING THE LAST NUMBERED SHEET OF THE PLANS.

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-10 PAVEMENT JOINTS
- 420101-07 24' JOINTED PCC PAVEMENT
- 515001-04 NAME PLATE FOR BRIDGES
- 542401-04 METAL FLARED END SECTION FOR PIPE CULVERTS
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630101-10 STRONG POST GUARDRAIL ATTACHED TO CULVERTS
- 630201-07 PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-05 OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY FOR SPEEDS  $\geq$  45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701321-18 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- 406201-01 MAILBOX TURNOUT
- 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY

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		SCALE:	SHEET OF SHEETS STA.	TO STA.

80% FED  
20% STATE

80% FED  
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010		
20200100	EARTH EXCAVATION	CU YD	1098	1098		
20400800	FURNISHED EXCAVATION	CU YD	179	179		
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	518	518		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	268	268		
28000305	TEMPORARY DITCH CHECKS	FOOT	176	176		
28000500	INLET AND PIPE PROTECTION	EACH	3	3		
28100107	STONE RIPRAP, CLASS A4	SQ YD	286	286		
28100109	STONE RIPRAP, CLASS A5	SQ YD	165	165		
28200200	FILTER FABRIC	SQ YD	451	451		
35101400	AGGREGATE BASE COURSE, TYPE B	TON	47	47		
35400300	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING	SQ YD	1262	1262		
	8"					
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	371	371		
44000100	PAVEMENT REMOVAL	SQ YD	282	282		
44004250	PAVED SHOULDER REMOVAL	SQ YD	455	455		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1		
50105220	PIPE CULVERT REMOVAL	FOOT	66	66		
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	260	260		
50800105	REINFORCEMENT BARS	POUND	48700	48700		
50800515	BAR SPLICERS	EACH	216	216		
51500100	NAME PLATES	EACH	1	1		
52200020	TEMPORARY SOIL RETENTION SYSTEM	SO FT	430	430		
54003000	CONCRETE BOX CULVERTS	CU YD	275.3	275.3		
54262715	METAL FLARED END SECTIONS 15"	EACH	4	4		
54262748	METAL FLARED END SECTIONS 48"	EACH	2	2		
542C0220	PIPE CULVERTS, CLASS C, TYPE 1 15"	FOOT	138	138		
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	224	224		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	100	100		

\* SPECIALTY ITEM

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15BY)BR	LAWRENCE	38	3
CONTRACT NO. 74860			ILLINOIS FED. AID PROJECT	

80% FED  
20% STATE

80% FED  
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010		
* 6300005	STEEL PLATE BEAM GUARDRAIL, TYPE B	FOOT	50	50		
* 6300030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	75	75		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2		
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2	2		
63200310	GUARDRAIL REMOVAL	FOOT	455	455		
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	5	5		
67100100	MOBILIZATION	L SUM	1	1		
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1		
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	2048	2048		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	853	853		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE		
CODE NO	ITEM	UNIT		0010		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	350	350		
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	54	54		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	325	325		
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2		
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2		
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2708	2708		
X0327301	RELOCATE EXISTING MAILBOX	EACH	1	1		
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	224	224		
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.9	0.9		
X5000015	REMOVE AND RE-INSTALL PIPE CULVERTS	FOOT	41	41		
Z0054505	ROCK FILL - REPLACEMENT	TON	467	467		

\* SPECIALTY ITEM

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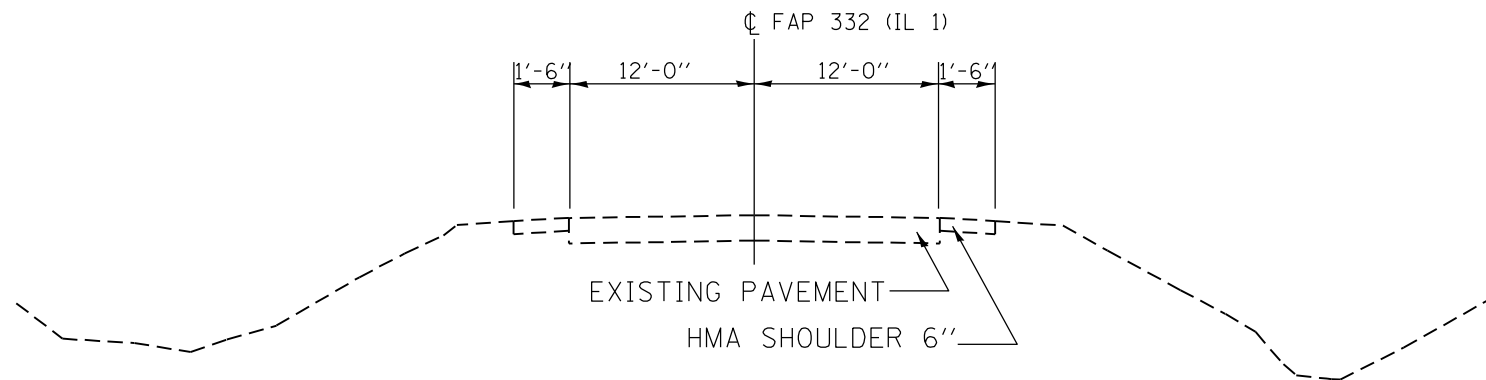
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DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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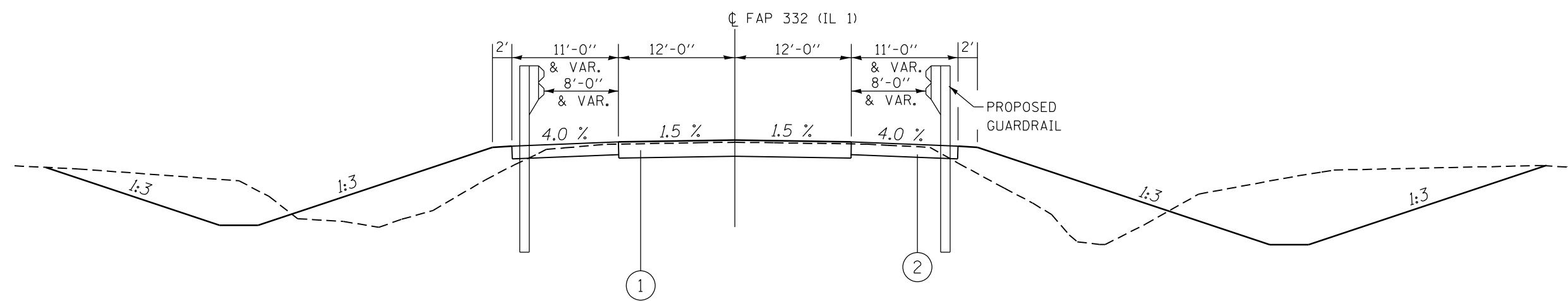
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332	(15BY)BR	LAWRENCE	38	4
CONTRACT NO. 74860			ILLINOIS FED. AID PROJECT	





EXISTING ADJACENT TYPICAL SECTION

STATION 887+00 TO STATION 897+00



PROPOSED TYPICAL SECTION

STATION 888+12 TO STATION 893+35

LEGEND

- ① PCC PAVEMENT 10"
- ② PCC BASE COURSE WIDENING 8"

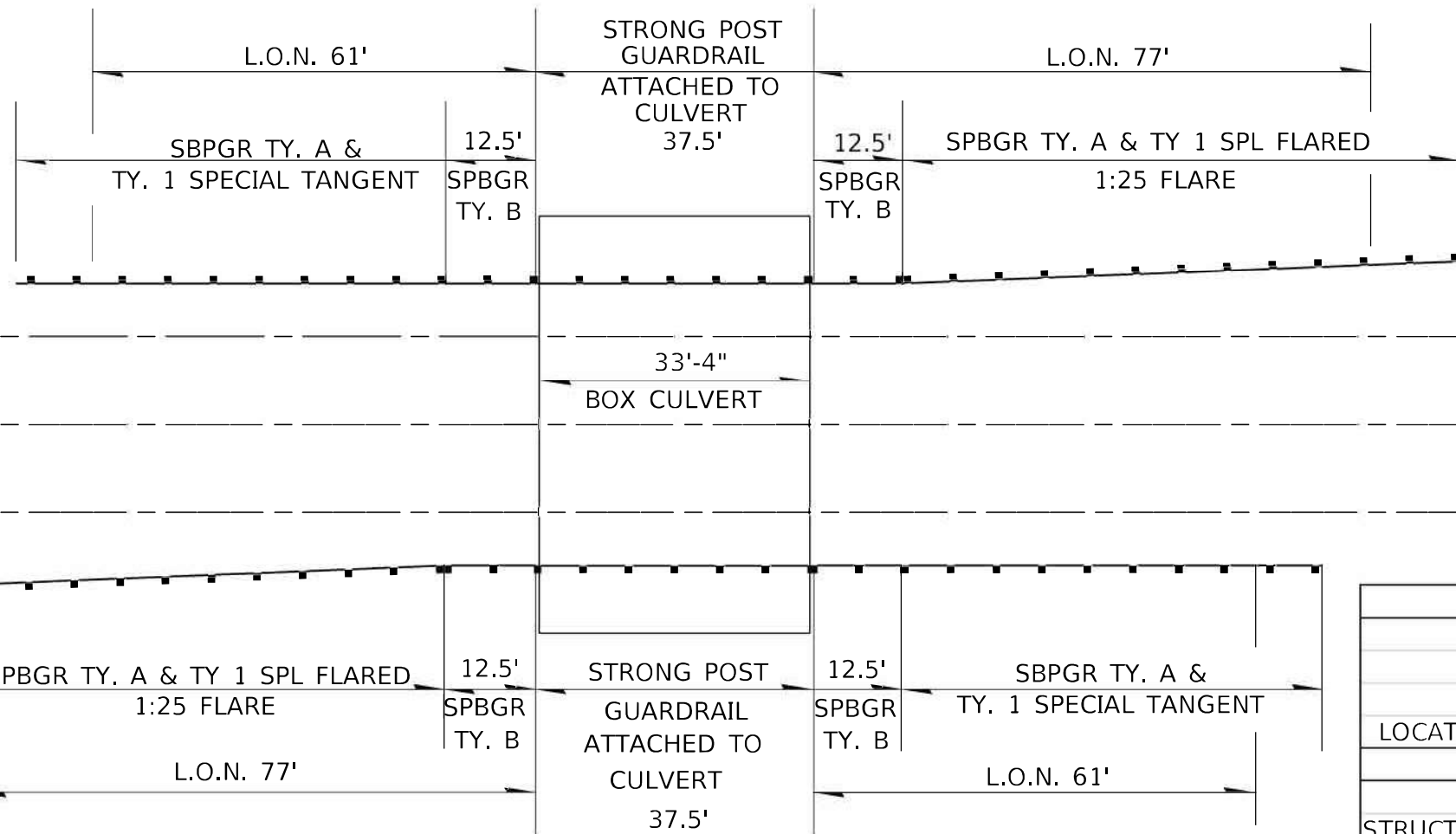
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15BY)BR	LAWRENCE	38	5
CONTRACT NO. 74860			ILLINOIS FED. AID PROJECT	



PIPE CULVERT SCHEDULE							
STATION	TYPE	SIDE	PIPE CULVERT REMOVAL FOOT	PIPE CULVERTS, CLASS C, TYPE 1 15" FOOT	REMOVE AND RE-INSTALL PIPE CULVERTS FOOT	METAL FLARED END SECTIONS 15" EACH	METAL FLARED END SECTIONS 48" EACH
888+64	FE	LT	33	64		2	
889+30	FE	RT	33	74		2	
892+34	PE	LT			41		2
TOTAL			66	138	41	4	2

EARTHWORK SCHEDULE					
LOCATION	EARTH EXCAVATION CU.YD.	EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE CU.YD.	EMBANKMENT CU.YD.	EARTHWORK BALANCE WASTE(+) SHORTAGE(-) CU.YD.	TOPSOIL EXCAVATION AND PLACEMENT CU.YD.
STRUCTURE	1098	824	1003	-179	518

STONE RIPRAP, CLASS A4					
STA	TO	STA	FT	FT	SQ YD
891+20.0		892+12.0	92	28	286
TOTAL					286

FILTER FABRIC					
STA	TO	STA	FT	FT	SQ YD
891+20		892+12	92	28	286
TOTAL					286

GUARDRAIL SCHEDULE						
	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED EACH	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT EACH	STRONG POST GUARDRAIL ATTACHED TO CULVERT FOOT	STEEL PLATE BEAM GUARDRAIL, TYPE B FOOT	STEEL PLATE BEAM GUARDRAIL, TYPE A 6' POSTS FOOT	GUARDRAIL REMOVAL FOOT
NW CORNER	1			12.5	12.5	120
NE CORNER		1		12.5	37.5	120
CULVERT			75			
SW CORNER		1		12.5	37.5	120
SE CORNER	1			12.5	12.5	95
TOTAL	2	2	75	50	100	455

EROSION CONTROL SCHEDULE							
	STATION	TO	STATION	TEMPORARY EROSION CONTROL POUND	SEEDING, CLASS 2 (SPECIAL) ACRES	TEMPORARY DITCH CHECKS FOOT	INLET AND PIPE PROTECTION EACH
	890+75		893+75	135	0.45		
	890+75		893+75	133	0.45		
LT	889+00		890+75			56	
RT	889+00		890+75			40	
LT	891+25		893+75			48	
RT	891+25		893+75			32	
TOTAL				268	0.90	176	3

PAVEMENT MARKING SCHEDULE					
STATION	TO	STATION	PAVEMENT MARKING BLACKOUT TAPE, 5" FOOT	SHORT TERM PAVEMENT MARKING REMOVAL SQ FT	PAINT PAVEMENT MARKING - LINE 4" FOOT
STAGE 1					
887+05		896+72	1,081	450	
STAGE 2					
887+05		896+72	967	403	
FINAL STAGE					
887+05		896+72			2708
TOTALS			2048	853	2708

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GUARDRAIL DETAILS & SCHEDULE / EARTHWORK,  
PIPE CULVERT & EROSION CONTROL SCHEDULES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15B)BR	LAWRENCE	38	6
CONTRACT NO. 74860				
ILLINOIS / FED. AID PROJECT				



REMOVE AND REINSTALL PIPE CULVERT AND FLARED END SECTIONS AT PE STATION 892+34  
(SEE SPECIAL PROVISIONS FOR DETAILS)

PROPOSED  
STONE RIPRAP, CLASS A4  
AND FILTER FABRIC  
286 SQ YDS  
LT STA. 891+20 TO STA. 892+12

LT. 892+52  
432.72

REMOVE AND REPLACE EXISTING 15" CMP AND FLARED END SECTIONS AT FE STATION 888+64

LT. 888+35  
434.00

LT. 889+00  
433.97

EXISTING R.O.W.

CONSTRUCTION LIMITS

LT. 892+12  
431.62

AGG FE  
+64

AGG PE

889

POTD Sta 890+00  
EQUATION:  
Sta 889+67.20 BK =  
Sta 890+00.00 AH

890+00

891

892

AGG FE  
+30

CONSTRUCTION LIMITS

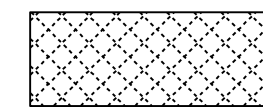
EXISTING R.O.W.

RT. 888+94  
434.00

RT. 890+00  
433.62

RELOCATE  
RECONSTRUCT  
EXISTING FE

REMOVE AND REPLACE EXISTING 15" CMP AND FLARED END SECTIONS AT FE STATION 889+30  
CONSTRUCT NEW FE STATION 889+30



PAVEMENT REMOVAL

SEE SHEET 6 FOR GUARDRAIL DETAILS

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15BY)BR	LAWRENCE	38	7
CONTRACT NO. 74860			ILLINOIS FED. AID PROJECT	

## SUGGESTED SEQUENCE OF OPERATIONS

### PRESTAGE

1. ERECT SIGNS, TRAFFIC SIGNALS, ETC. ACCORDING TO TRAFFIC CONTROL STANDARD 701321 AND THE DETAILS IN THE PLANS.
2. CONSTRUCT PCC BASE COURSE WIDENING 8" ON THE STAGE 1 TRAFFIC

### STAGE 1

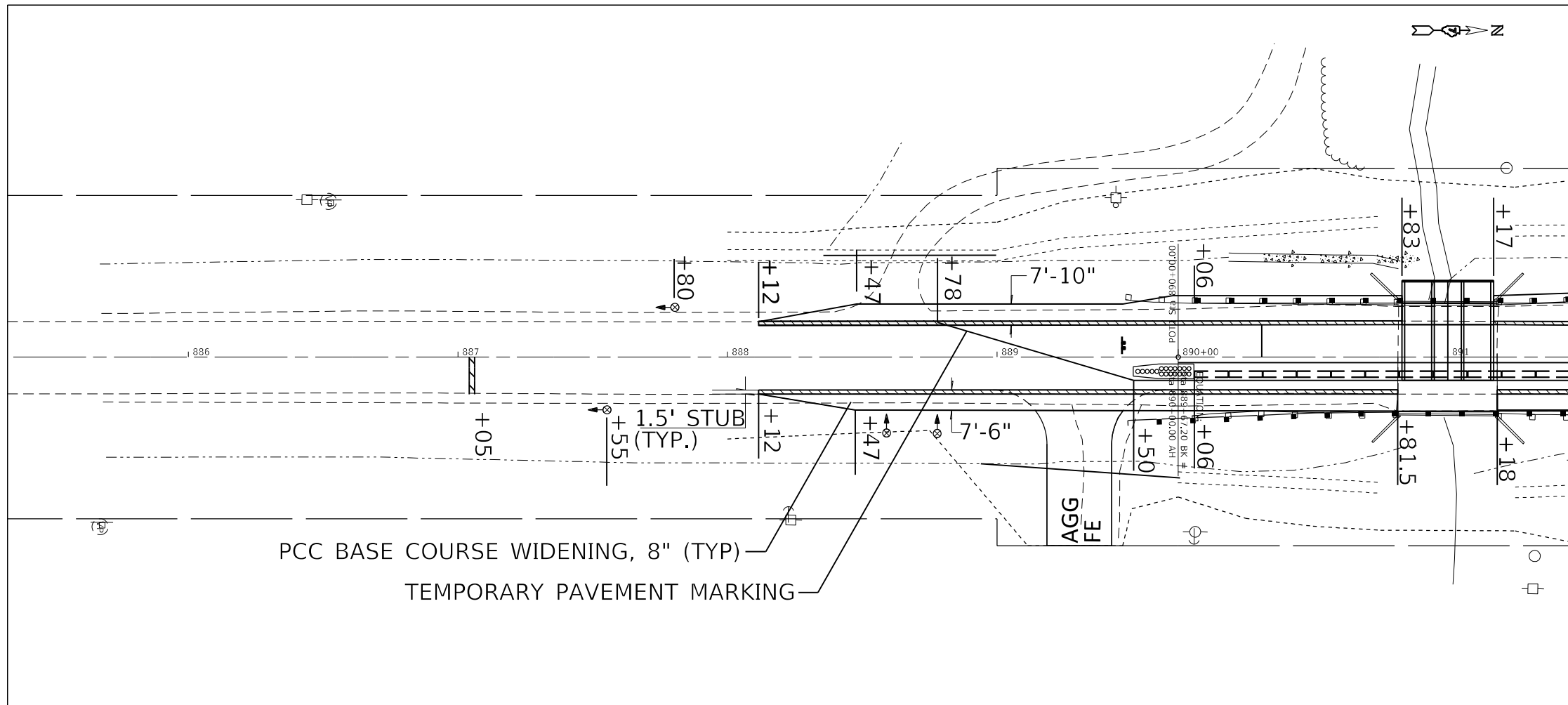
1. PLACE TEMPORARY CONCRETE BARRIER WALL ACCORDING TO TRAFFIC CONTROL STANDARD 701321.
2. CONSTRUCT TEMPORARY SOIL RETENTION SYSTEM
3. STRUCTURE REMOVAL
4. REMOVE EXISTING GUARDRAIL
5. CONSTRUCT BOX CULVERT
6. REMOVE EXISTING PAVEMENT & SHOULDER AND CONSTRUCT PCC PAVEMENT AND PCC BASE COURSE WIDENING 8".
7. CONSTRUCT GUARDRAIL

### STAGE 2

1. RELOCATE TEMPORARY CONCRETE BARRIER WALL ACCORDING TO TRAFFIC CONTROL STANDARD 701321.
2. STRUCTURE REMOVAL
3. REMOVE EXISTING GUARDRAIL
4. CONSTRUCT BOX CULVERT
5. REMOVE EXISTING PAVEMENT & SHOULDER AND CONSTRUCT PCC PAVEMENT AND PCC BASE COURSE WIDENING 8" AND GUARDRAIL.
6. REMOVE TRAFFIC CONTROL
7. CONSTRUCT PAINT PAVEMENT MARKING LINE

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		DRAWN -	REVISED -					332	(15BY)BR	LAWRENCE	38	8
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	PLOT DATE = 10/26/2021	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.



PAVED SHOULDER REMOVAL				
PRE-STAGE				
STA	TO	STA	SIDE	SQ YD
888+12		890+83	RT	46
891+19		894+15	RT	50
TOTAL				96

PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 8"					
PRE-STAGE					
STA	TO	STA	SIDE	WIDTH	SQ YD
888+12.0		890+81.5	RT	7.5 & VAR.	189
891+18.0		894+34.0	RT	7.5 & VAR.	252
TOTAL					440

TEMPORARY CONCRETE BARRIER			
STAGE 1			
STA	TO	STA	FOOT
890+06		891+95	187.5
892+80		894+19	137.5
TOTAL			325

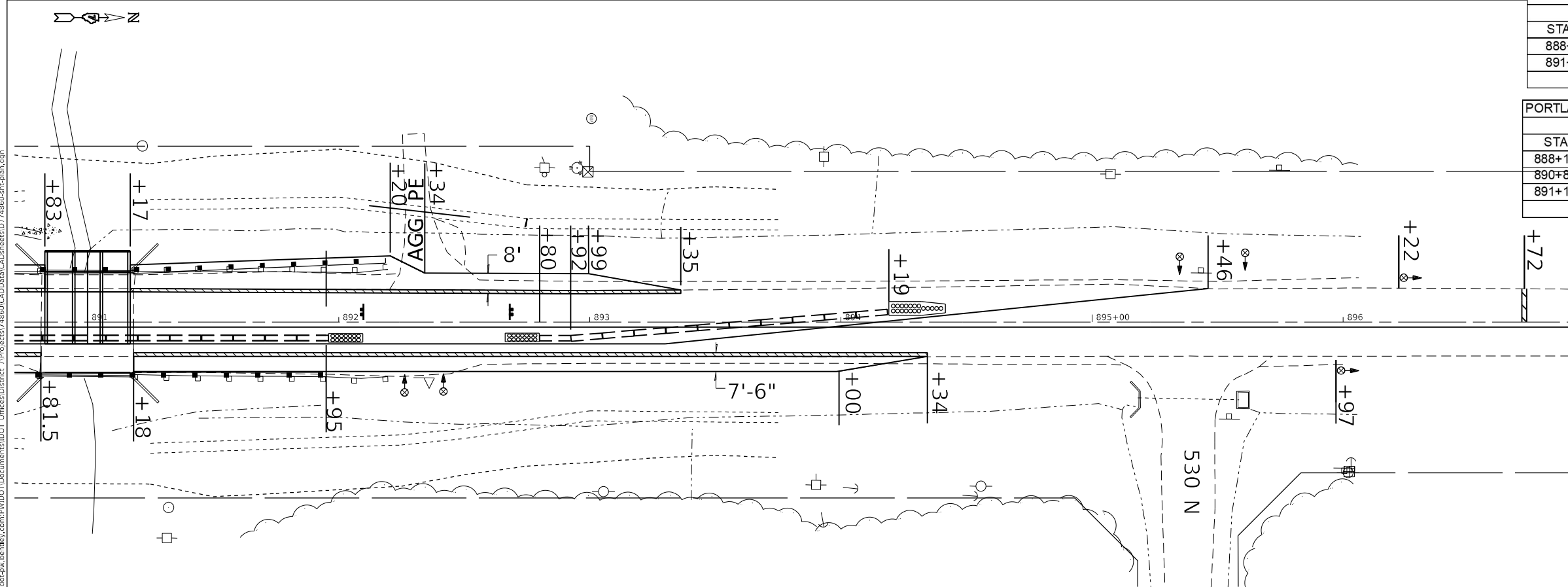
PINNING TEMPORARY CONCRETE BARRIER				
STAGE 1				
STA	TO	STA		EACH
890+06		891+95	0	EACH
			15	EACH
			15	EACH

PAVEMENT REMOVAL				
STAGE 1				
STA	TO	STA	SIDE	SQ YD
890+31.0		890+83.3	LT	81
891+16.7		891+70.0	LT	83
TOTAL				165

PORTLAND CEMENT CONCRETE PAVEMENT 10"				
STAGE 1				
STA	TO	STA	SIDE	SQ YD
890+31.0		891+70.0	LT	216
TOTAL				216

PAVED SHOULDER REMOVAL				
STAGE 1				
STA	TO	STA	SIDE	SQ YD
888+12		890+83	LT	48
891+19		893+35	LT	36
TOTAL				84

PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 8"					
STAGE 1					
STA	TO	STA	SIDE	WIDTH	SQ YD
888+12.0		890+83.0	LT	11	228
890+83.0		891+17.0	LT	8	30
891+17.0		893+35.0	LT	11	242
TOTAL					500



- PCC BASE COURSE WIDENING 8"
- TEMPORARY TRAFFIC SIGNAL
- TYPE III BARRICADE
- IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3
- IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3

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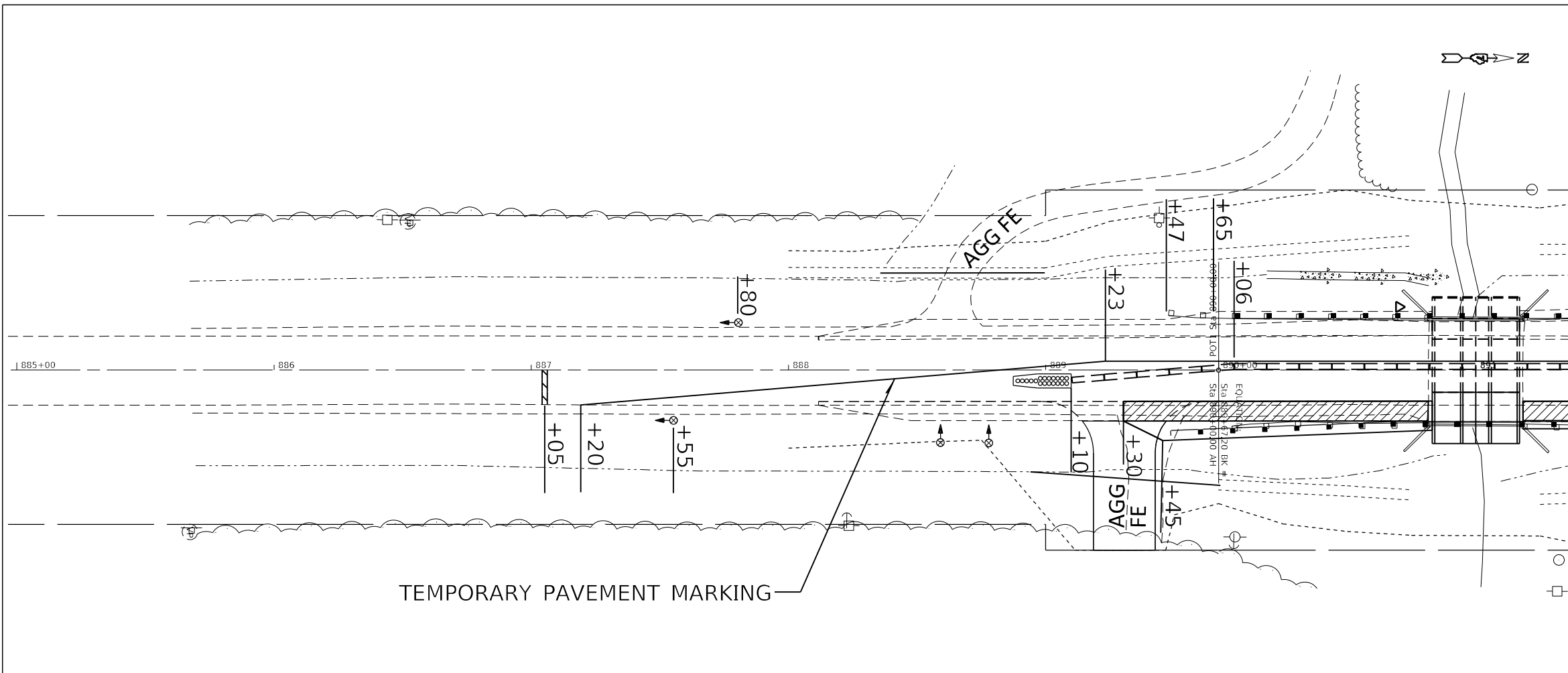
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	DRAWN -	REVISED -
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PLOT DATE = 10/21/2021	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PRE-STAGE AND**  
**STAGE 1 CONSTRUCTION**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15B)BR	LAWRENCE	38	9
CONTRACT NO. 74860			ILLINOIS FED. AID PROJECT	



TEMPORARY PAVEMENT MARKING

TEMPORARY CONCRETE BARRIER				
STAGE 2				
STA	TO	STA		
889+10		889+35	25	FOOT
TOTALS			25	FOOT

RELOCATE TEMPORARY CONCRETE BARRIER				
STAGE 2				
STA	TO	STA		
889+35		892+58	325	FOOT
TOTALS			325	FOOT

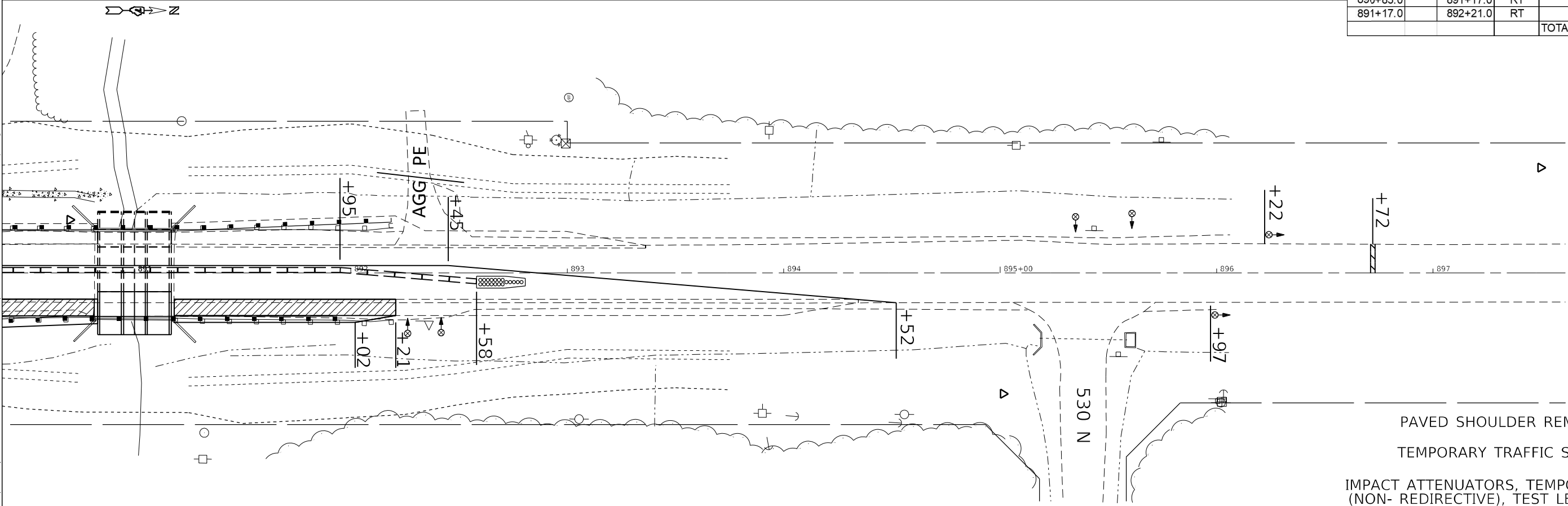
PINNING TEMPORARY CONCRETE BARRIER				
STAGE 2				
STA	TO	STA		
889+35		892+58	26	EACH
TOTAL			26	EACH

PAVED SHOULDER REMOVAL				
STAGE 2				
STA	TO	STA	SIDE	SQ YD
889+35.0		890+83.0	RT	158
891+17.0		892+21.0	RT	118
TOTAL				275

PAVEMENT REMOVAL				
STAGE 2				
STA	TO	STA	SIDE	SQ YD
890+31.0		890+83.3	RT	58
891+16.7		891+70.0	RT	59
TOTAL				117

PORTLAND CEMENT CONCRETE PAVEMENT 10"				
STAGE 2				
STA	TO	STA	SIDE	SQ YD
890+31.0		891+70.0	RT	155
TOTAL				155

PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 8"					
STAGE 2					
STA	TO	STA	SIDE	WIDTH	SQ YD
889+30.0		890+83.0	RT	11	174
890+83.0		891+17.0	RT	8	30
891+17.0		892+21.0	RT	11	118
TOTAL					322



PAVED SHOULDER REMOVAL

TEMPORARY TRAFFIC SIGNAL

IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3

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	DRAWN -	REVISD -
PLOT SCALE = 50,0000 * / in.	CHECKED -	REVISD -
PLOT DATE = 10/21/2021	DATE -	REVISD -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

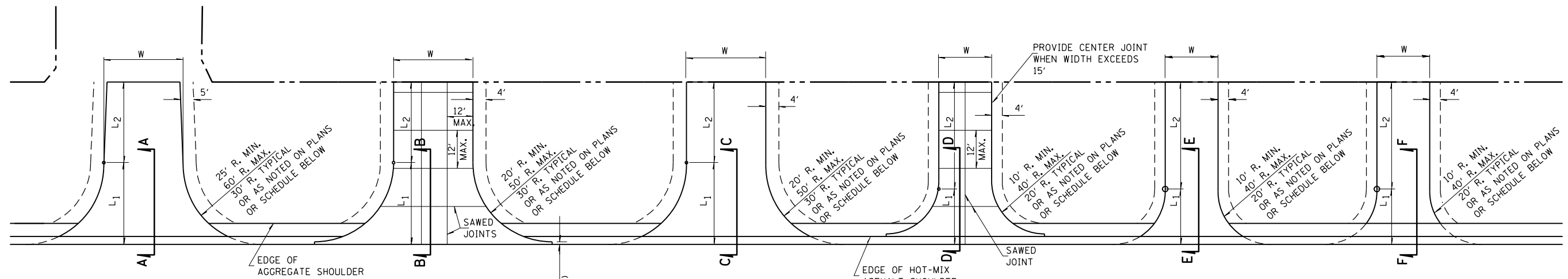
STAGE II CONSTRUCTION

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15B)BR	LAWRENCE	38	10
			CONTRACT NO. 74860	
		ILLINOIS	FED. AID PROJECT	



RRE



**PUBLIC ROAD**

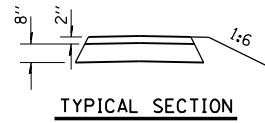
**COMMERCIAL (P.C.C.)**

**COMMERCIAL (HOT-MIX ASPHALT)**

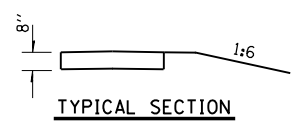
**PRIVATE ENTRANCE (P.C.C.)**

**PRIVATE ENTRANCE (HOT-MIX ASPHALT)**

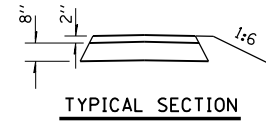
**FIELD ENTRANCE (AGGREGATE)**



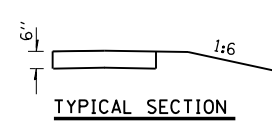
**TYPICAL SECTION**



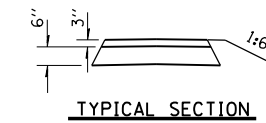
**TYPICAL SECTION**



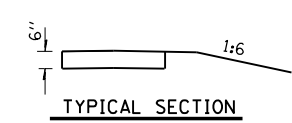
**TYPICAL SECTION**



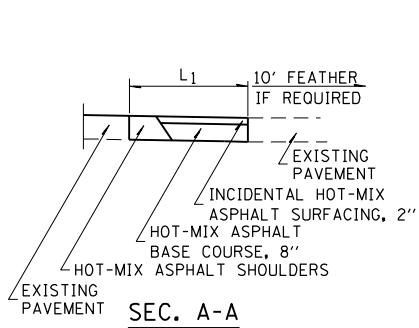
**TYPICAL SECTION**



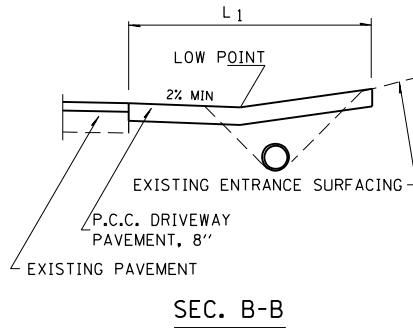
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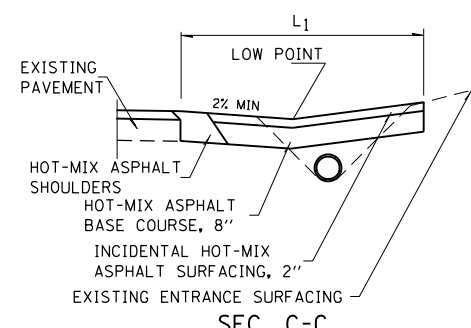
**TYPICAL SECTION**



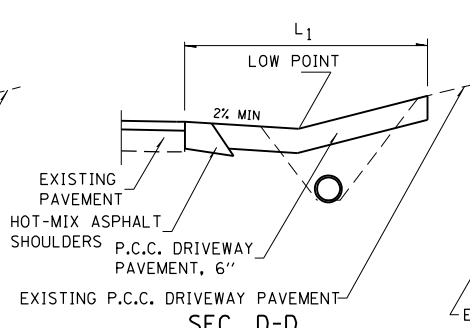
**SEC. A-A**



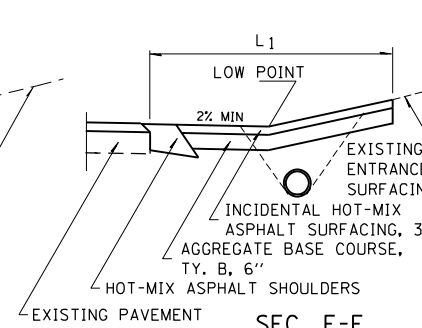
**SEC. B-B**



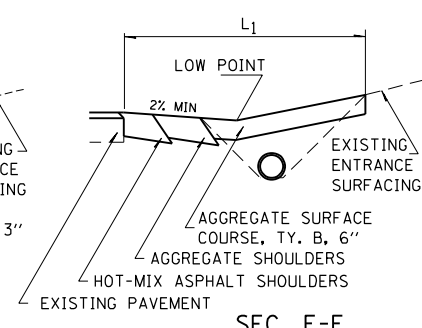
**SEC. C-C**



**SEC. D-D**



**SEC. E-E**



**SEC. F-F**

**ENTRANCE SCHEDULE**

TYPE	SIDE/ STATION	WIDTH	LENGTH		RADI	AGGREGATE BASE COURSE, TY. B. 6"		HOT-MIX ASPHALT BASE COURSE, 8"	AGGREGATE SURFACE COURSE, TYPE B	INCIDENTAL HOT-MIX ASPHALT SURFACING	P.C.C. DRIVEWAY PAVEMENT		PCC PAVEMENT 8"
			L <sub>1</sub>	L <sub>2</sub>		TON	SO. YD.				TON	SO. YD.	
FE	RT 888+30	24'	12.5	37'	20'	47							

**ENTRANCE SCHEDULE**

TYPE	SIDE/ STATION	WIDTH	LENGTH		RADI	AGGREGATE BASE COURSE, TY. B. 6"		HOT-MIX ASPHALT BASE COURSE, 8"	AGGREGATE SURFACE COURSE, TYPE B	INCIDENTAL HOT-MIX ASPHALT SURFACING	P.C.C. DRIVEWAY PAVEMENT		PCC PAVEMENT 8"
			L <sub>1</sub>	L <sub>2</sub>		TON	SO. YD.				TON	SO. YD.	

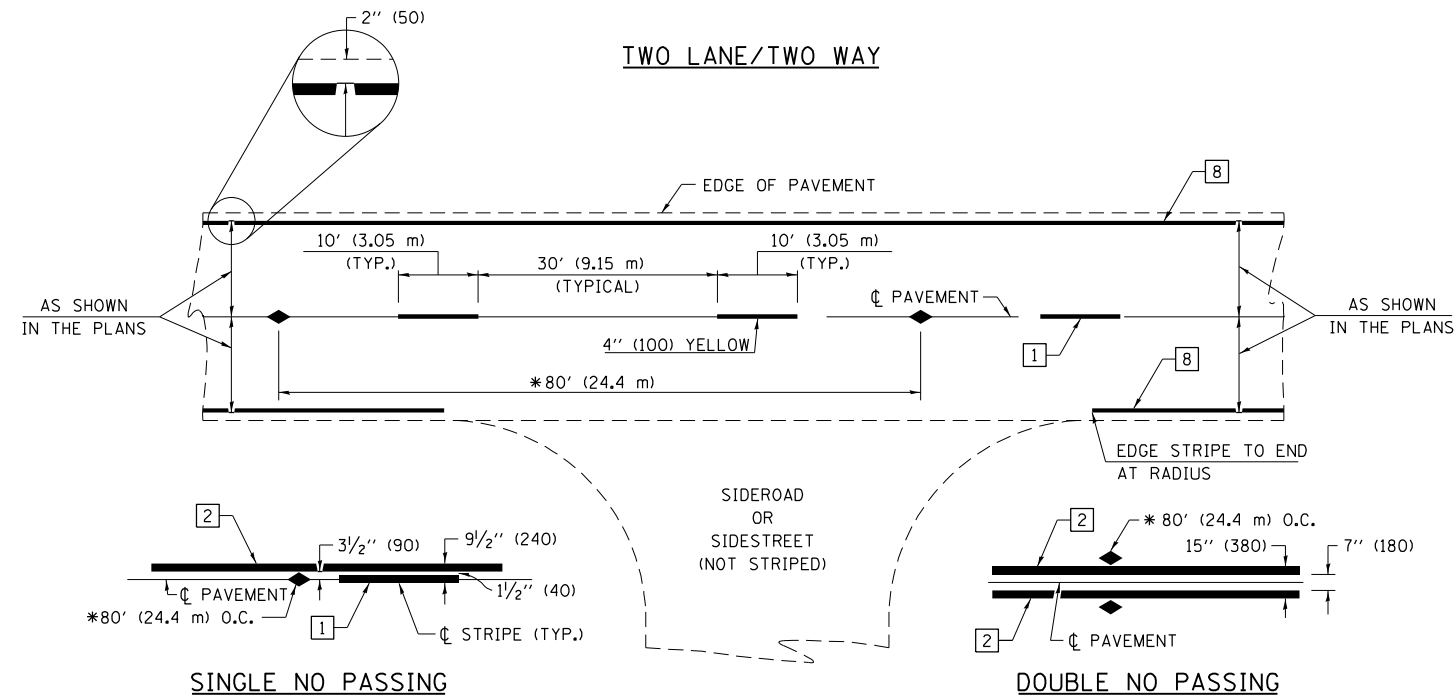
**NOTES**

L<sub>1</sub> = DISTANCE FROM EDGE OF PAVEMENT TO RADIUS POINT OR MAXIMUM DISTANCE OF 30'.  
 L<sub>2</sub> = DISTANCE FROM RADIUS POINT OR MAXIMUM DISTANCE OF 30' FROM EDGE OF PAVEMENT TO R.O.W. LINE  
 MATERIAL USED TO CONSTRUCT L<sub>2</sub> LENGTH SHALL BE THE SAME TYPE OF MATERIAL AS THE EXISTING ENTRANCE

THE THICKNESS OF THE HOT-MIX ASPHALT SHOULDERS THROUGH COMMERCIAL ENTRANCES (HOT-MIX ASPHALT) AND PUBLIC ROADS SHALL BE 10". THE COST OF THE EXTRA THICKNESS SHALL BE INCLUDED WITH THE HOT-MIX ASPHALT SHOULDERS PAY ITEM.

THE COST OF THE BITUMINOUS MATERIALS AND AGGREGATE (PRIME COAT) FOR ENTRANCES AND PUBLIC ROAD APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

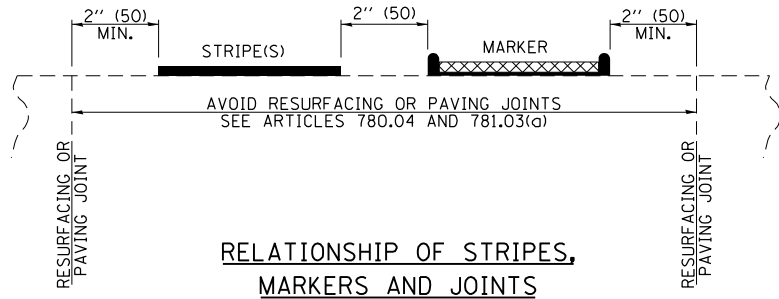
**DISTRICT 7 DETAIL NO. 7800001**



\* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

PAVEMENT MARKING LEGEND

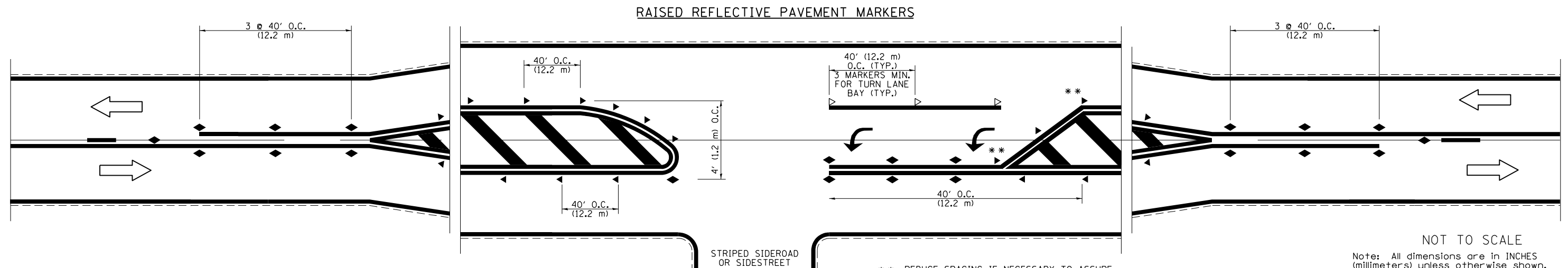
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS

TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER



\*\* REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED -
p:\dot-pw\bentley.com\PWIDOT\Documents\DOT Offices\District 7\Projects\74860\CADD\Drawings\74860-shd-details.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

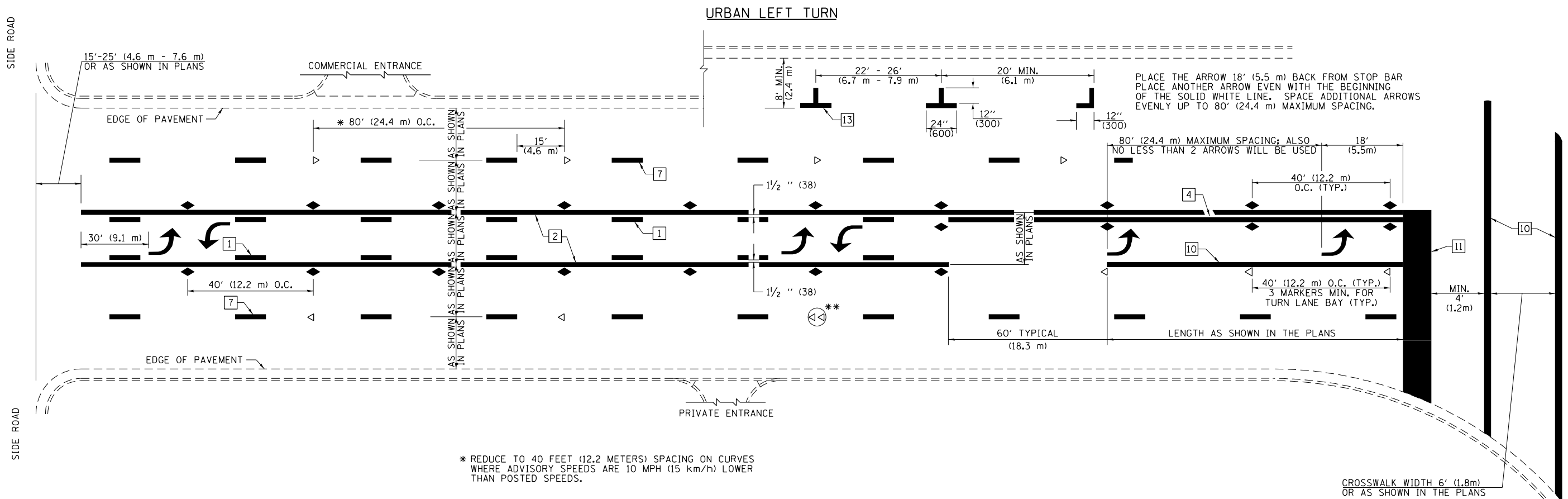
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS  
(RURAL & URBAN APPLICATIONS)

SCALE: SHEET NO. 1 OF 4 SHEETS STA. TO STA.

DISTRICT 7 DETAIL NO. 7800001

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15)BRI(Y)	LAWRENCE	38	12
CONTRACT NO. 74860				
ILLINOIS FED. AID PROJECT				



PLACE THE ARROW 18' (5.5 m) BACK FROM STOP BAR  
 PLACE ANOTHER ARROW EVEN WITH THE BEGINNING  
 OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS  
 EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING.

\* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES  
 WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER  
 THAN POSTED SPEEDS.

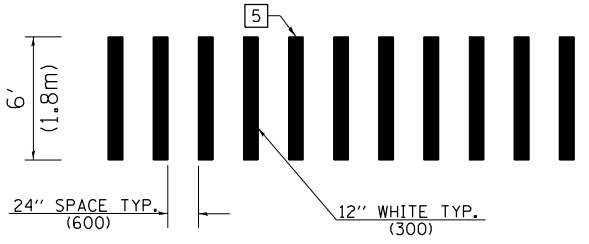
\*\* DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED  
 AND SPACED AS SHOWN IN HIGHWAY STANDARD  
 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED  
 HIGHWAYS.

**PAVEMENT MARKING LEGEND**

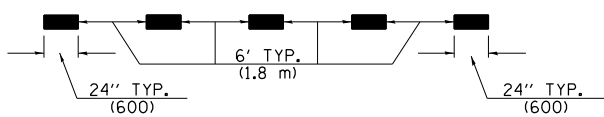
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

**GENERAL NOTES**

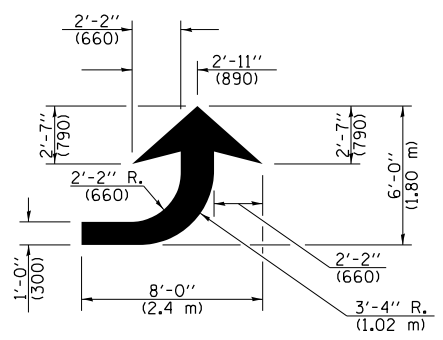
1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS 2 SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
3. THE SKIP-DASH PAVEMENT MARKINGS 1 OR 7 SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
4. USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)
5. LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.
6. ALL WHITE SKIP-DASH LINES SHALL BE 6" IN WIDTH.



**CROSSWALK DETAIL  
 (DECATUR CITY LIMITS ONLY)**

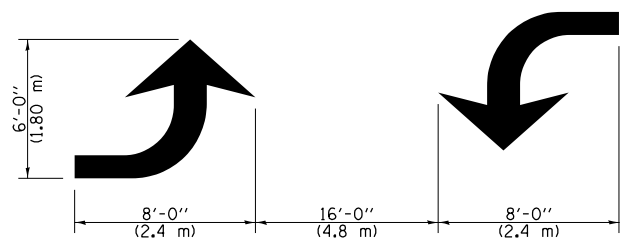


**LANE LINE EXTENSIONS**



**LEFT ARROW**

REVERSE FOR RIGHT ARROW  
 AREA = 15.6 SQ. FT. (1.47 m<sup>2</sup>)  
 (WHITE)



**TYPICAL DOUBLE  
 TURN ARROWS (WHITE)**

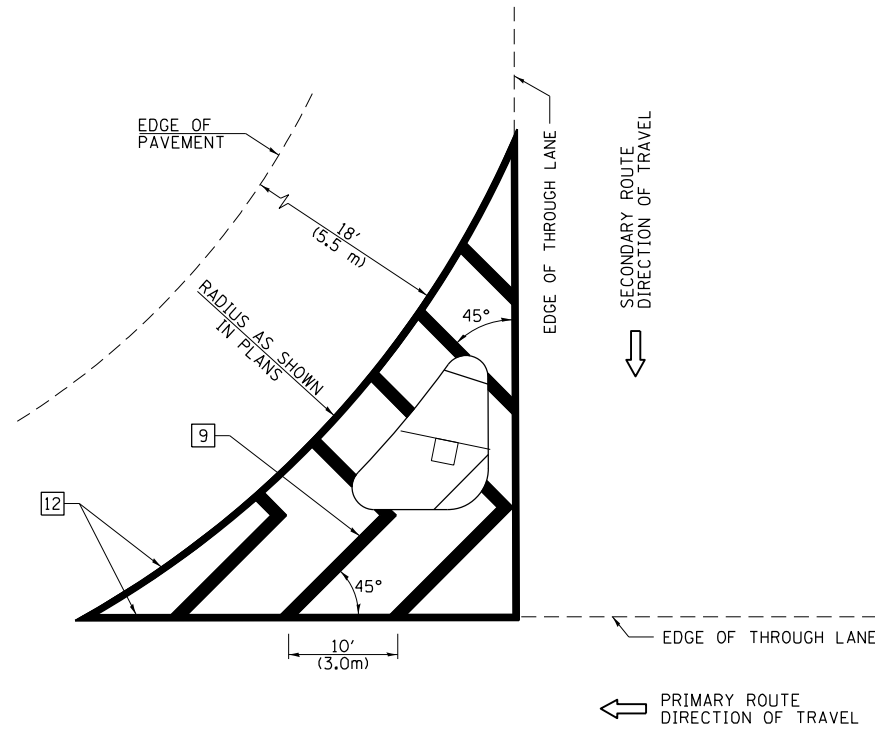
NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 7 DETAIL NO. 7800001**

FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL &amp; URBAN APPLICATIONS)</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\idot-pw\bentley.com\PWIDOT\Documents\IDOT Offices\District 7\Projects\74860\CADD\Drawings\74860-shd-details.dgn		CHECKED -	REVISED -			332	(15BR)BY	LAWRENCE	38	13
PLOT SCALE = 5.0000' / in.		DATE -	REVISED -			CONTRACT NO. 74860				
PLOT DATE = 10/21/2021						ILLINOIS FED. AID PROJECT				

**ISLAND**

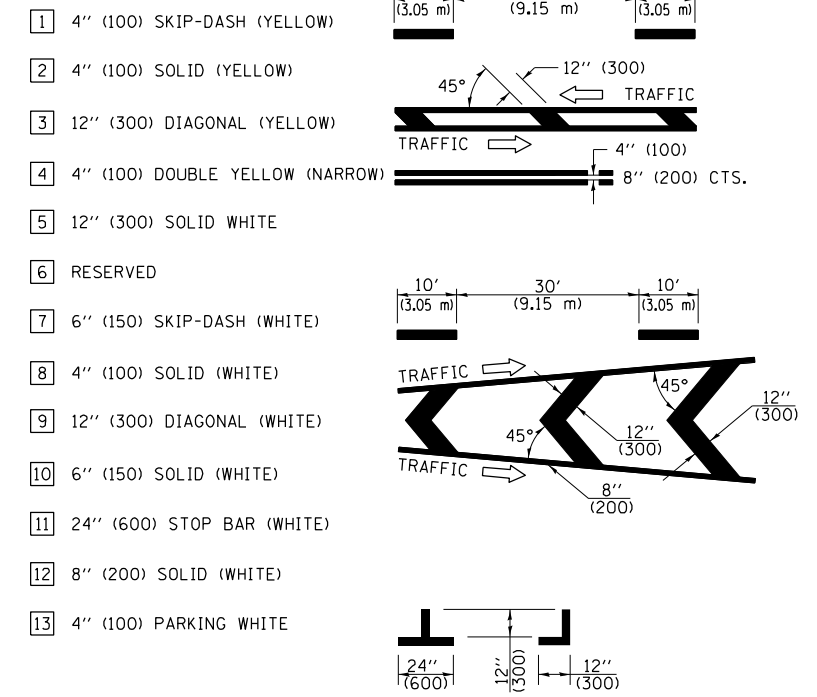


**GENERAL NOTES**

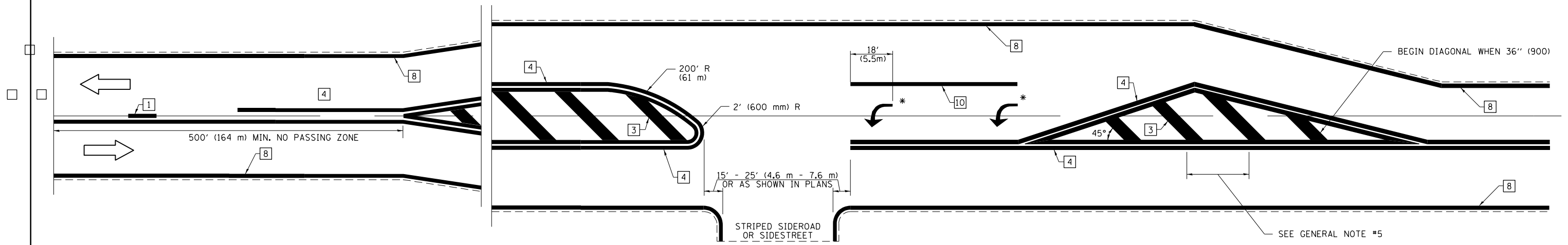
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

< 30 MPH (< 50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
>45 MPH (>75 km/h)	30' (9.0 m)

**PAVEMENT MARKING LEGEND**



**RURAL LEFT TURN STRIPING**



\* PLACE AN ARROW 18' (5.5 m) BACK FROM STOP BAR. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 7 DETAIL NO. 7800001**

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
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		DATE -	REVISED -

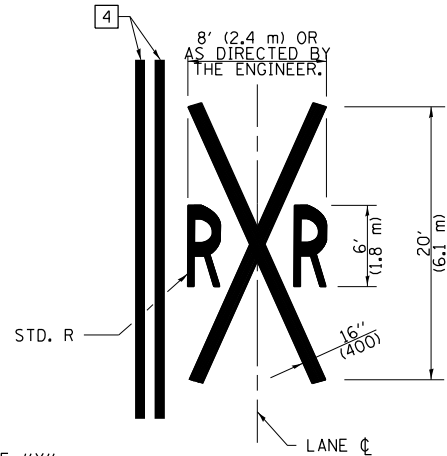
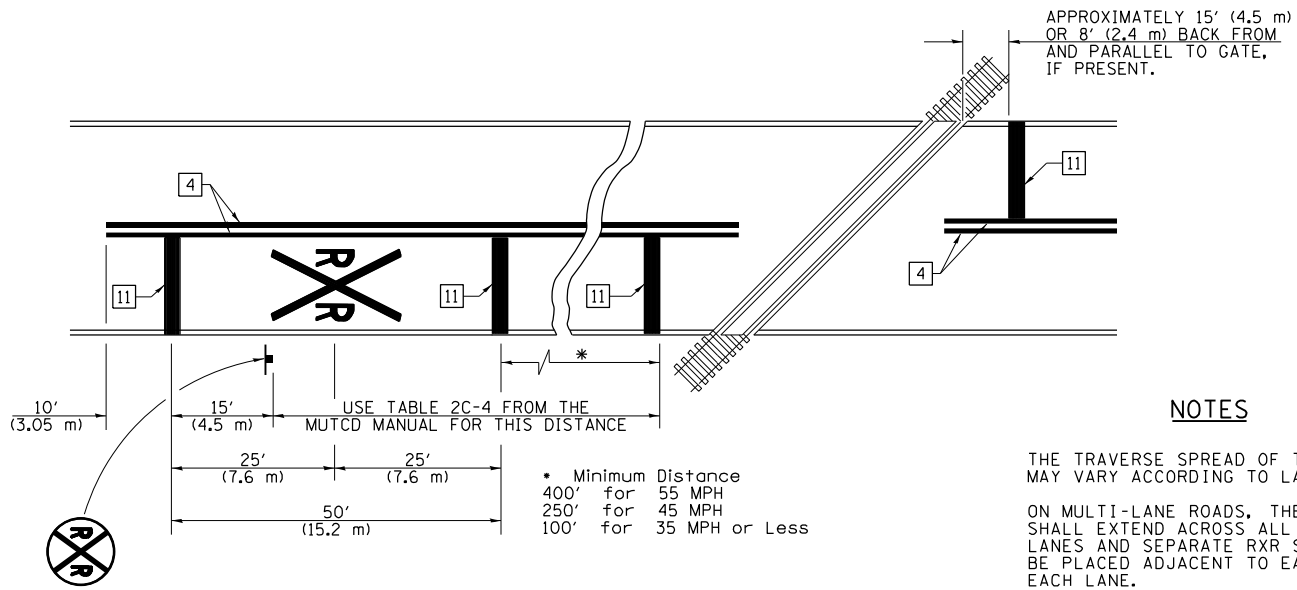
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS  
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15B)R1BY	LAWRENCE	38	14
CONTRACT NO. 74860				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

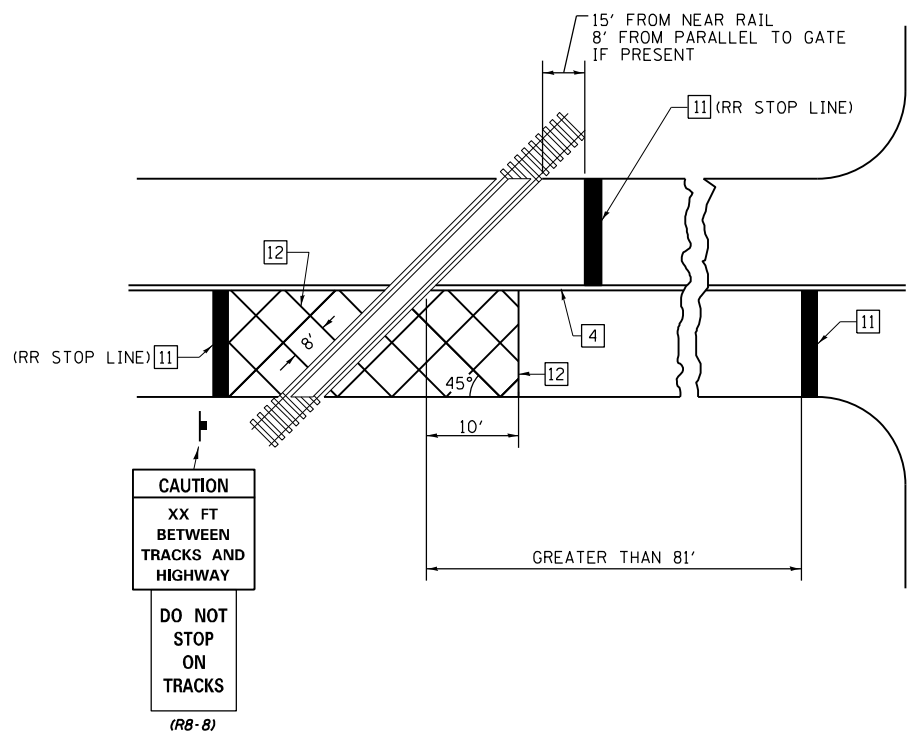
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

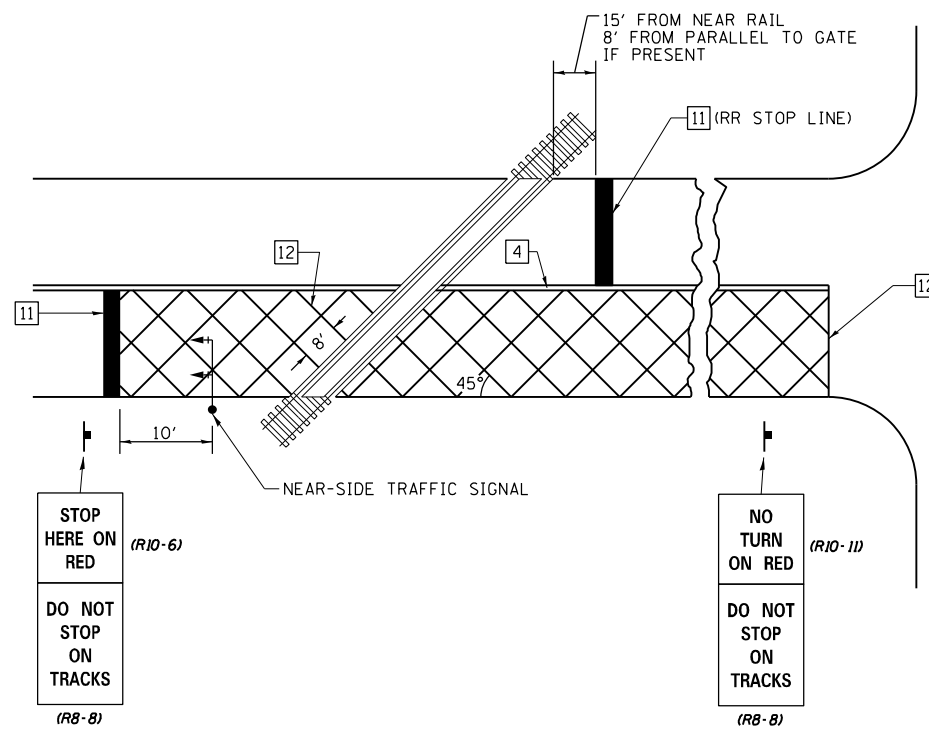
PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
  - 2 4" (100) SOLID (YELLOW)
  - 3 12" (300) DIAGONAL (YELLOW)
  - 4 4" (100) DOUBLE YELLOW (NARROW)
  - 5 12" (300) SOLID WHITE
  - 6 RESERVED
  - 7 6" (150) SKIP-DASH (WHITE)
  - 8 4" (100) SOLID (WHITE)
  - 9 12" (300) DIAGONAL (WHITE)
  - 10 6" (150) SOLID (WHITE)
  - 11 24" (600) STOP BAR (WHITE)
  - 12 8" (200) SOLID (WHITE)
  - 13 4" (100) PARKING WHITE
- 

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL &amp; URBAN APPLICATIONS)</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\idot-pw\bentley.com\PIDOT\Documents\IDOT Offices\District 7\Projects\74860\CADD\Drawings\Sheets\774860-sht-details.dgn		CHECKED -	REVISED -			332	(15BR)BY	LAWRENCE	38	15
PLOT SCALE = 5.0000' / in.		DATE -	REVISED -			CONTRACT NO. 74860				
PLOT DATE = 10/21/2021						ILLINOIS FED. AID PROJECT				

Benchmark: Chiseled square on NE corner of wingwall of existing S.N. 051-0008. Sta. 891+20, 22.0' Rt. Elev = 439.68  
 Existing Structure: S.N. 051-0008 was originally constructed in 1924 under SBI Route 1 - Section 15 as a single span reinforced concrete thru girder with closed abutments on untreated timber piles. In 1956, the abutments were widened, and the superstructure was replaced with 30WF beams on 38'-0" bk. to bk. abutments. The superstructure is non-composite with a 42'-4" out-to-out deck and has 0° skew. The existing structure is to be removed and replaced. Traffic is to be maintained using stage construction.

**GENERAL NOTES**

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.  
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.  
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.

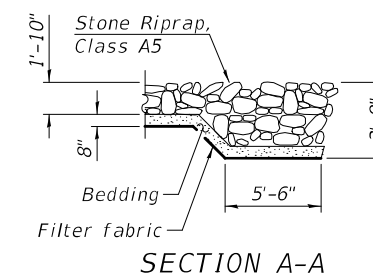
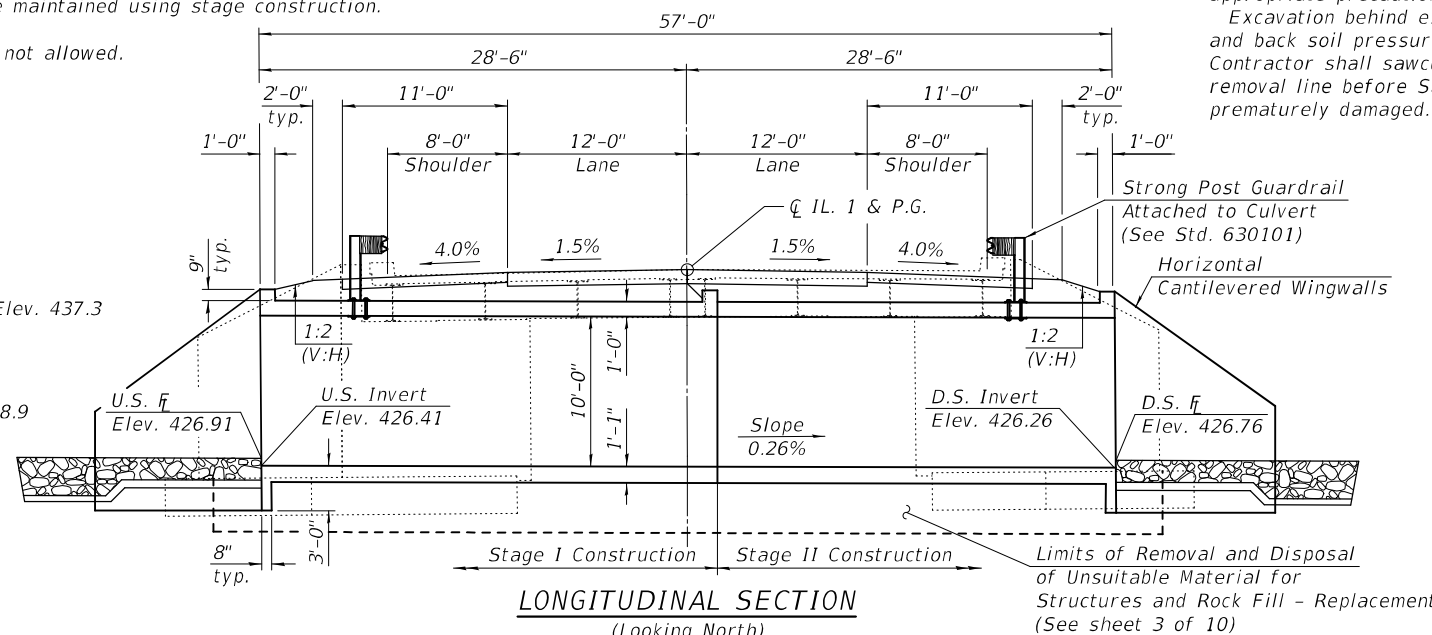
**WATERWAY INFORMATION**

Existing Overtopping Elev. 439.34 ft. at Sta. 881+45  
 Drainage Area = 2.12 Sq. Mi. Proposed Overtopping Elev. 439.34 ft. at Sta. 881+45

Flood	Freq. Yr.	Q C.F.S.	Opening Ft <sup>2</sup>		Nat. Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	10	894	233	260	435.6	0.8	0.0	436.4	435.6
Base	50	1490	240	281	437.3	0.5	0.2	437.8	437.5
Overtopping (E)	100	1770	240	281	437.7	1.2	0.6	438.9	438.3
Overtopping (P)	140	1923	240	281	437.8	1.5	1.0	439.3	438.8
Max. Calc.	270	2175	240	281	438.0	1.6	1.2	439.6	439.2
	500	2470	240	281	438.1	1.7	1.6	439.8	439.7

10-Year outlet velocity from existing structure = 3.8 fps  
 10-Year outlet velocity from proposed structure = 3.4 fps

Precast alternate is not allowed.  
 No Salvage



**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Removal and Disposal of Unsuitable Material, for Structures	Cu. Yd.	260
Stone Riprap, Class A5	Sq. Yd.	165
Filter Fabric	Sq. Yd.	165
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	48,700
Bar Splicers	Each	216
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	430
Concrete Box Culverts	Cu. Yd.	275.3
Rock Fill - Replacement	Ton	467
Membrane Waterproofing System for Buried Structures	Sq. Yd.	224
Strong Post Guardrail Attached to Culvert	Foot	75
Geocomposite Wall Drain	Sq. Yd.	224

**DESIGN SPECIFICATIONS**

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

**DESIGN STRESSES**

**FIELD UNITS**

f'c = 3,500 psi  
 fy = 60,000 psi (Reinforcement)

**LOADING HL-93**

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

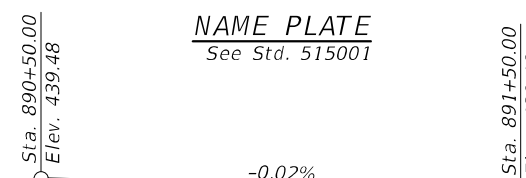
**INDEX OF SHEETS**

- 1 - General Plan & Elevation
- 2 - Stage Construction Details
- 3 - Temporary Soil Retention System
- 4 - Temporary Concrete Barrier
- 5 - Top & Bottom Slab
- 6 - Culvert Sections
- 7 - Wingwall Details
- 8 - Culvert Details
- 9 - Bar Splicer Assembly Details
- 10 - Soil Boring Logs

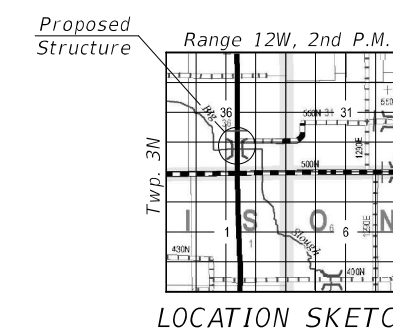
STATION 891+00.00  
 BUILT 20 BY  
 STATE OF ILLINOIS  
 F.A.P. RTE. 332 - SEC. (15BY)BR  
 LOADING HL-93  
 STRUCTURE NO. 051-2010

**NAME PLATE**  
 See Std. 515001

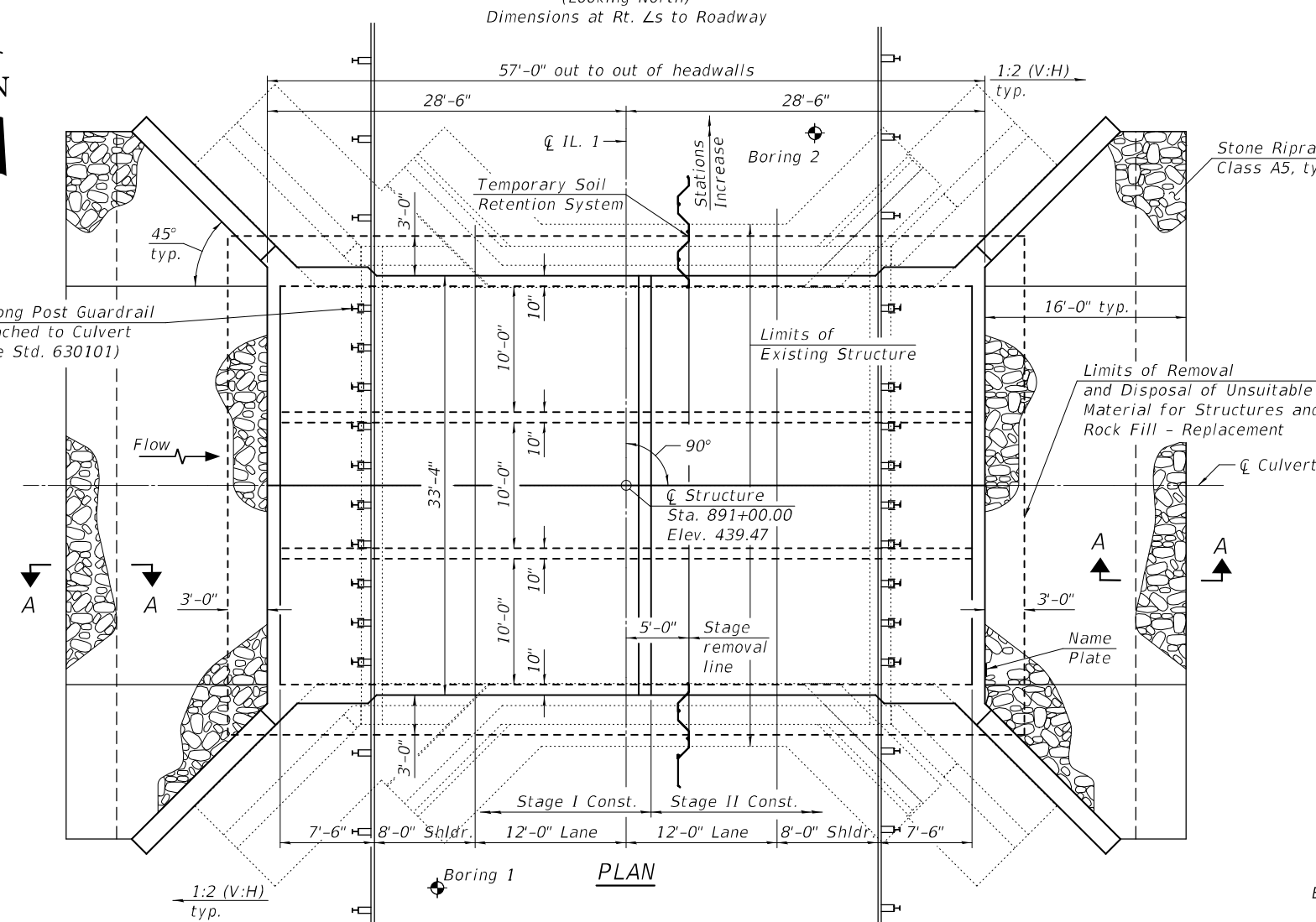
**PROFILE GRADE**  
 (Along  $\bar{C}$  IL. Rte. 1)



**GENERAL PLAN & ELEVATION**  
 ILLINOIS ROUTE 1 OVER BIG SLOUGH  
 F.A.P. RTE. 332 - SECTION (15BY)BR  
 LAWRENCE COUNTY  
 STATION 891+00.00  
 STRUCTURE NO. 051-2010



EXPIRES 11-30-2022



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DESIGNED - HAMEED S. SALIH	EXAMINED - Jay F. [Signature]	DATE - 12-10-2021
CHECKED - MICHAEL A. PAULIONIS	PASSED - [Signature]	REVISOR -
DRAWN - DENNIS A. POP	ENGINEER OF BRIDGES AND STRUCTURES	REVISIONS -
CHECKED - H.S.S. / M.A.P. / D.H.C.		

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

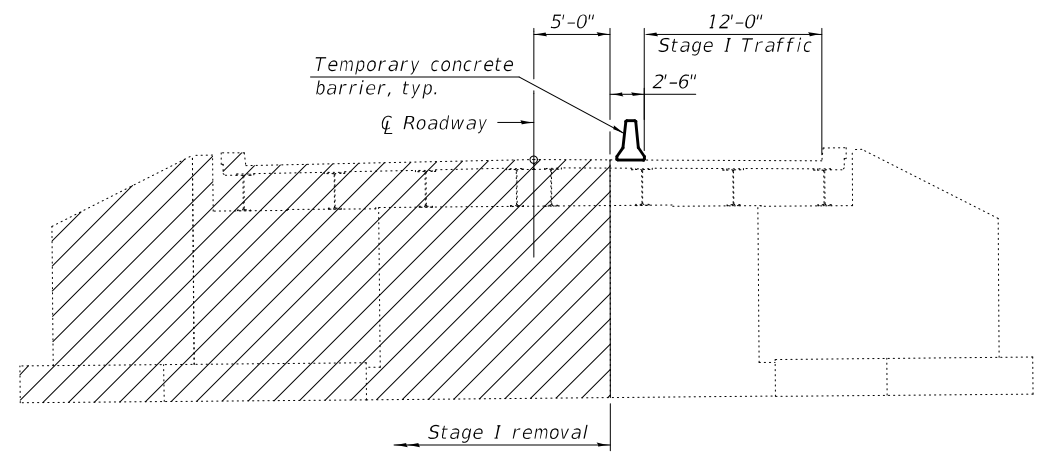
SHEET 1 OF 10 SHEETS

F.A.P. RTE. 332	SECTION (15BY)BR	COUNTY LAWRENCE	TOTAL SHEETS 38	SHEET NO. 16
CONTRACT NO. 74860				
ILLINOIS FED. AID PROJECT				

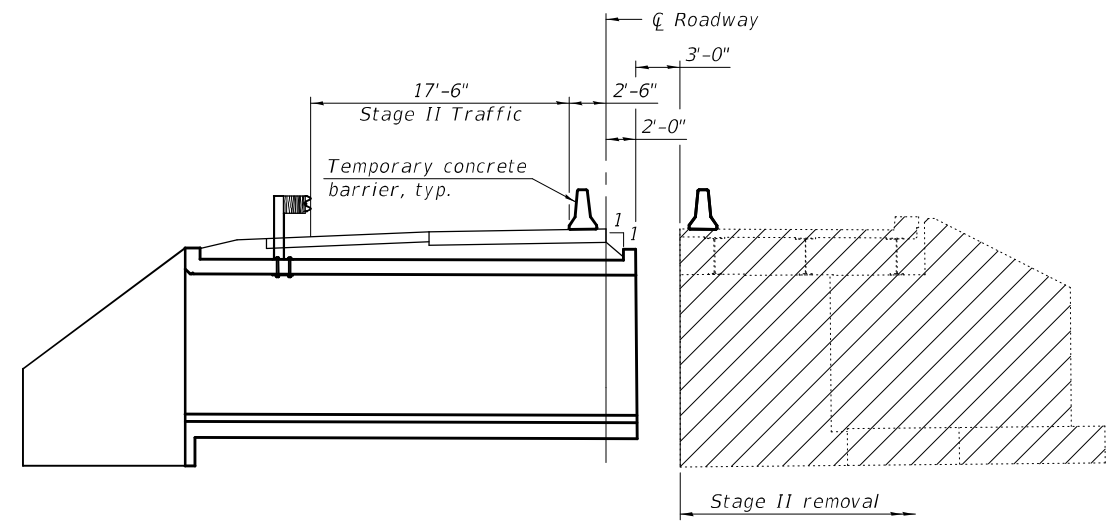
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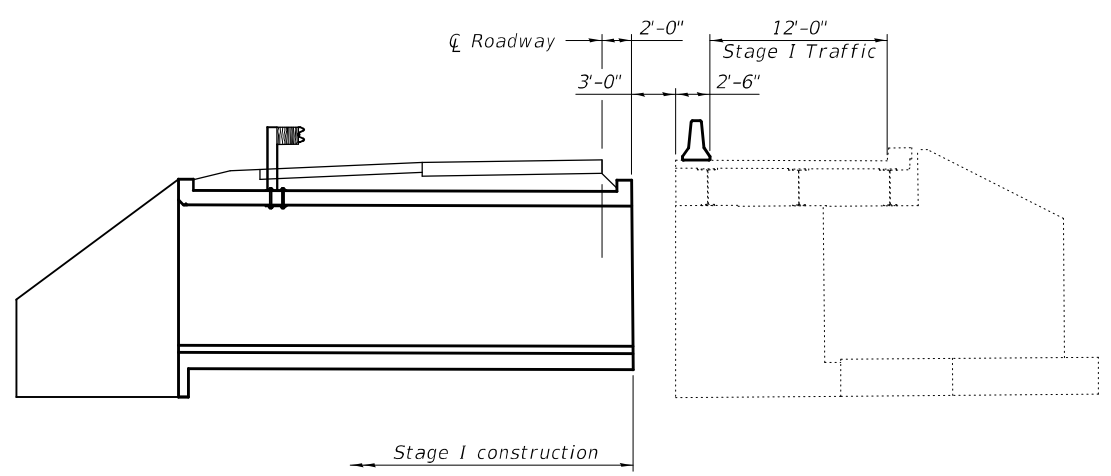
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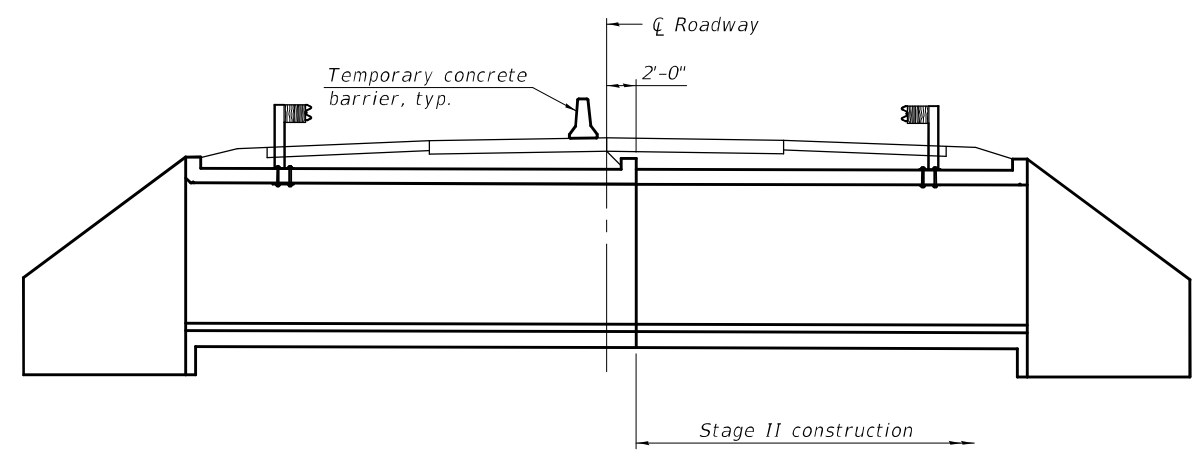
**STAGE I REMOVAL**



**STAGE II REMOVAL**



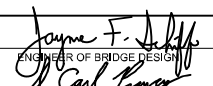

**STAGE I CONSTRUCTION**



**STAGE II CONSTRUCTION**

**Notes:**  
 Hatched areas indicate removal of existing structures.  
 For quantity of temporary concrete barrier, see Roadway Plans. All cross sections are taken looking North.  
 For details of Temporary Concrete Barrier see sheet 4 of 10.  
 Removal of the substructure shall be according to Article 501.04 of the Standard Specifications.

DESIGNED -	HAMEED S. SALIH
CHECKED -	MICHAEL A. PAULIONIS
DRAWN -	DENNIS A. POP
CHECKED -	H.S.S. / M.A.P. / D.H.C.

EXAMINED  
 PASSED  
  
 ENGINEER OF BRIDGE DESIGN  
  
 ENGINEER OF BRIDGES AND STRUCTURES

DATE -	DECEMBER 10, 2021
REVISED -	
REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS  
 STRUCTURE NO. 051-2010**

SHEET 2 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15BY)BR	LAWRENCE	38	17
CONTRACT NO. 74860			ILLINOIS FED. AID PROJECT	

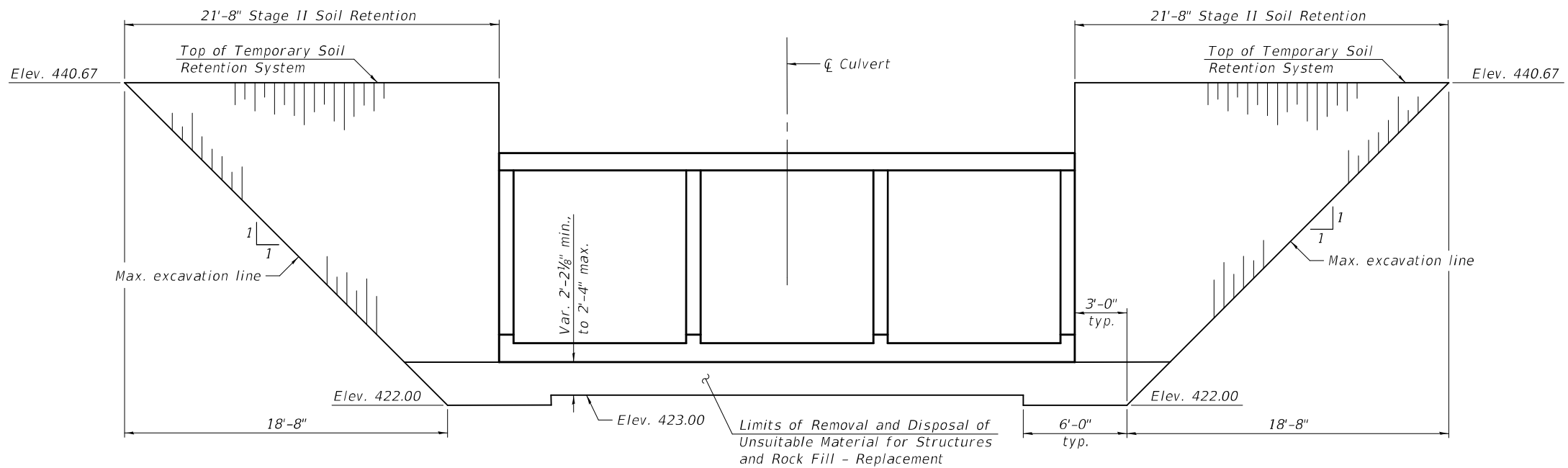


**STAGE I TEMPORARY SOIL RETENTION SYSTEM**

(Looking East - Horizontal dimensions are looking East along  $\bar{C}$  F.A.P. Rte. 332)

**Note:**

A cantilevered sheet piling design does not appear to be 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. The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.



**STAGE II TEMPORARY SOIL RETENTION SYSTEM**

(Looking East - Horizontal dimensions are looking East along  $\bar{C}$  F.A.P. Rte. 332)

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DESIGNED -	HAMEED S. SALIH
CHECKED -	MICHAEL A. PAULIONIS
DRAWN -	DENNIS A. POP
CHECKED -	H.S.S. / M.A.P. / D.H.C.

EXAMINED	<i>Joanne F. Salih</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Carl King</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	DECEMBER 10, 2021
REVISED -	
REVISED -	

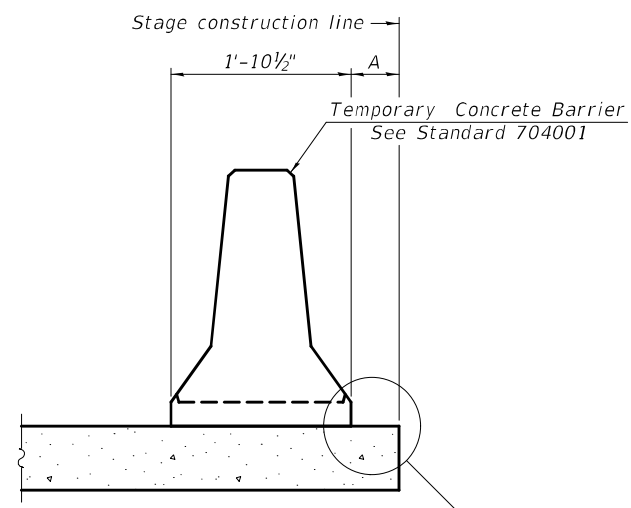
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY SOIL RETENTION SYSTEM  
 STRUCTURE NO. 051-2010**

SHEET 3 OF 10 SHEETS

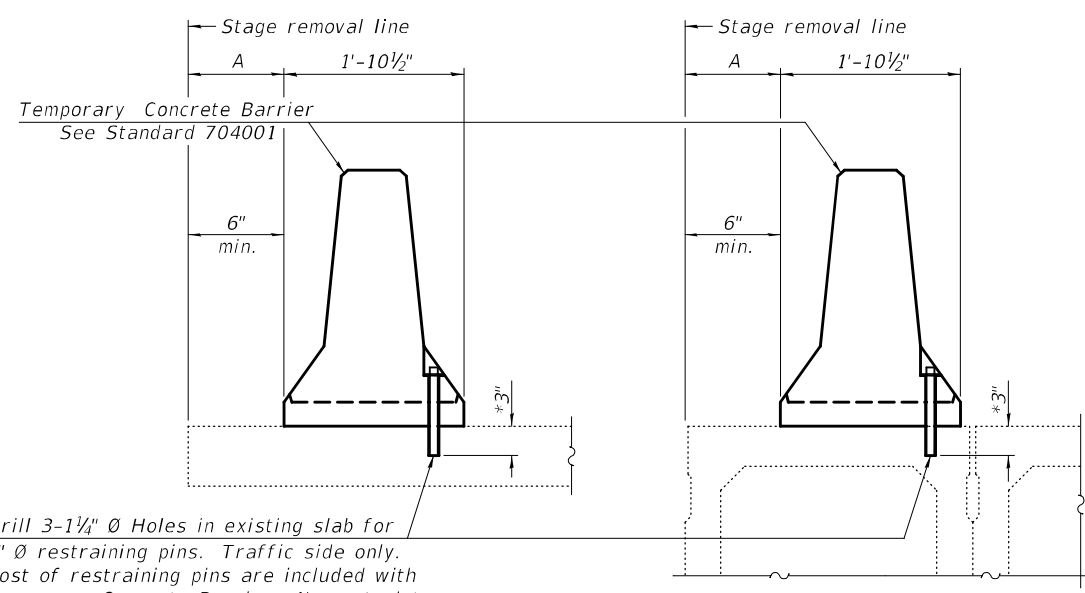
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15B)BR	LAWRENCE	38	18
CONTRACT NO. 74860				
ILLINOIS FED. AID PROJECT				

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When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

**NEW SLAB OR NEW DECK BEAM**



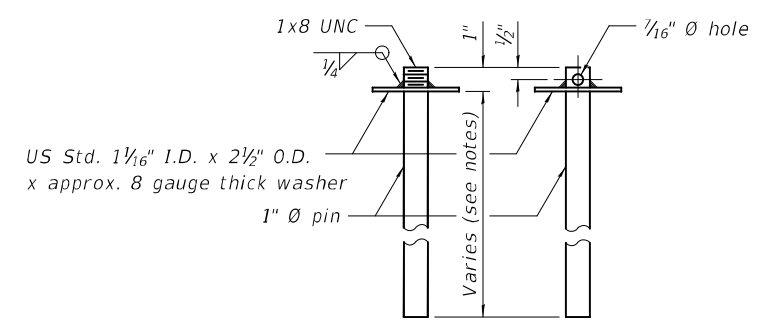
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

**EXISTING SLAB**

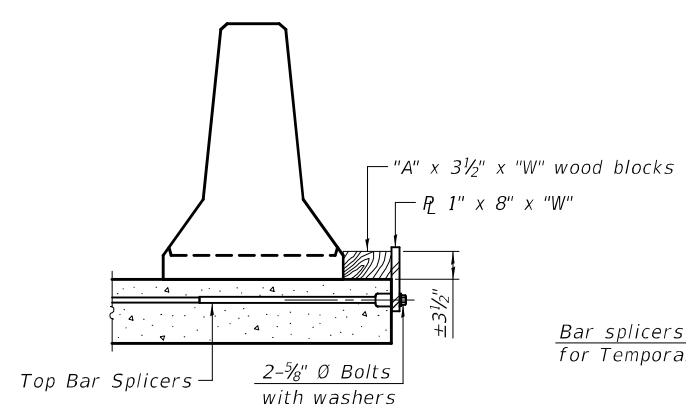
\* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

**EXISTING DECK BEAM**

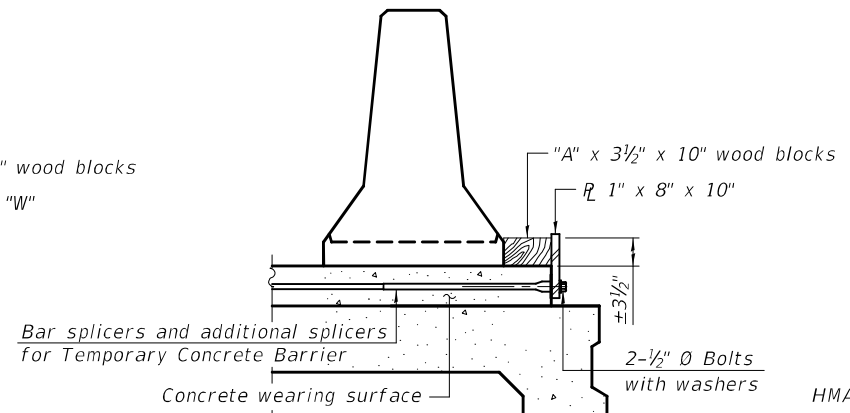
**SECTIONS THRU SLAB OR DECK BEAM**



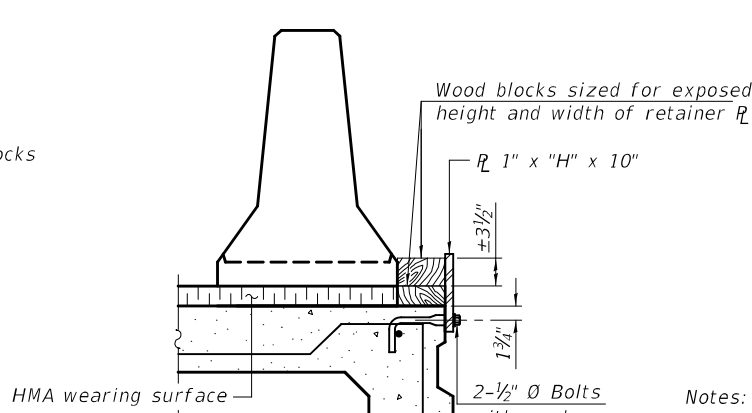
**RESTRAINING PIN**



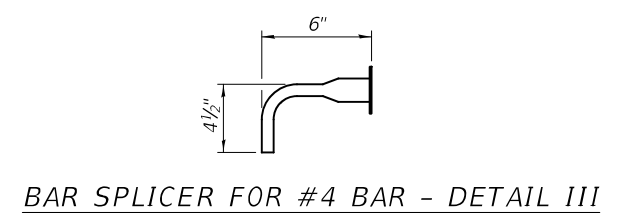
**DETAIL I**



**DETAIL II**



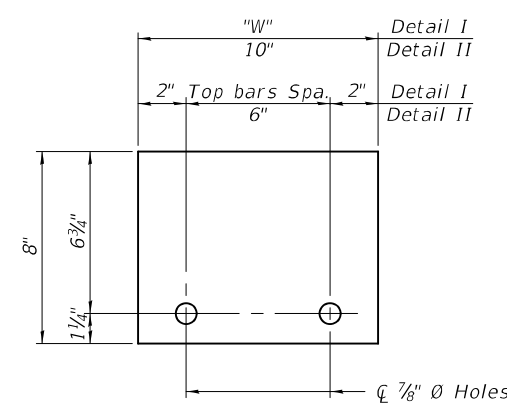
**DETAIL III**



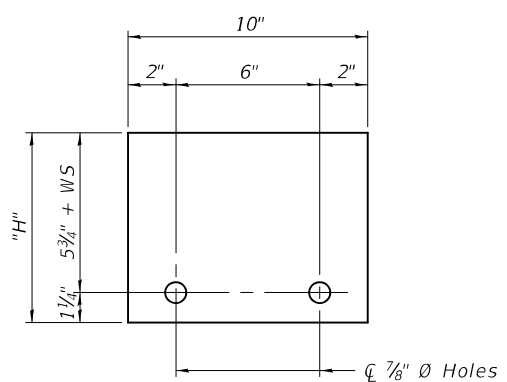
**BAR SPLICER FOR #4 BAR - DETAIL III**

**Notes:**  
 Cost of retainer assembly is included with Temporary Concrete Barrier.  
 A retainer assembly shall be located at the approximate  $\bar{c}$  of each temporary concrete barrier.  
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.  
 When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate.  
 For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

**Detail I** - Installation for a new bridge deck or bridge slab.  
**Detail II** - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.  
**Detail III** - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.



**STEEL RETAINER R 1" x 8" x "W"**  
(Detail I and II)



**STEEL RETAINER R 1" x "H" x 10"**  
(Detail III)

**RAILING CRITERIA**

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021

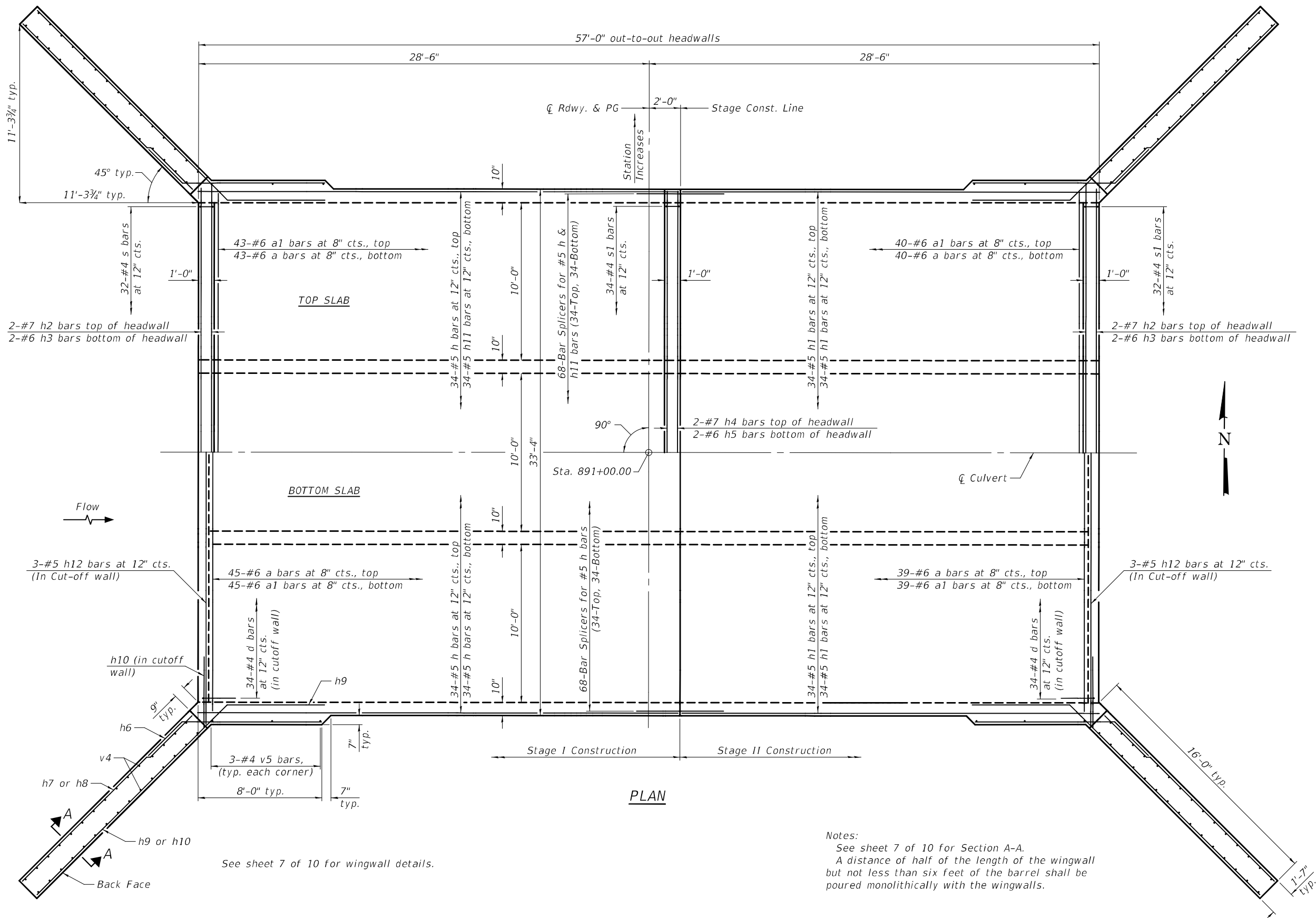
DESIGNED - HAMEED S. SALIH	EXAMINED -	DATE - DECEMBER 10, 2021
CHECKED - MICHAEL A. PAULIONIS	PASSED -	
DRAWN - DENNIS A. POP		
CHECKED - H.S.S. / M.A.P. / D.H.C.		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER  
STRUCTURE NO. 051-2010**

SHEET 4 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15B)BR	LAWRENCE	38	19
CONTRACT NO. 74860				
ILLINOIS FED. AID PROJECT				



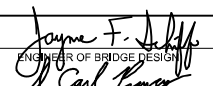
PLAN

Notes:  
 See sheet 7 of 10 for Section A-A.  
 A distance of half of the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

See sheet 7 of 10 for wingwall details.

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DESIGNED -	HAMEED S. SALIH
CHECKED -	MICHAEL A. PAULIONIS
DRAWN -	DENNIS A. POP
CHECKED -	H.S.S. / M.A.P. / D.H.C.

EXAMINED	 ENGINEER OF BRIDGE DESIGN
PASSED	

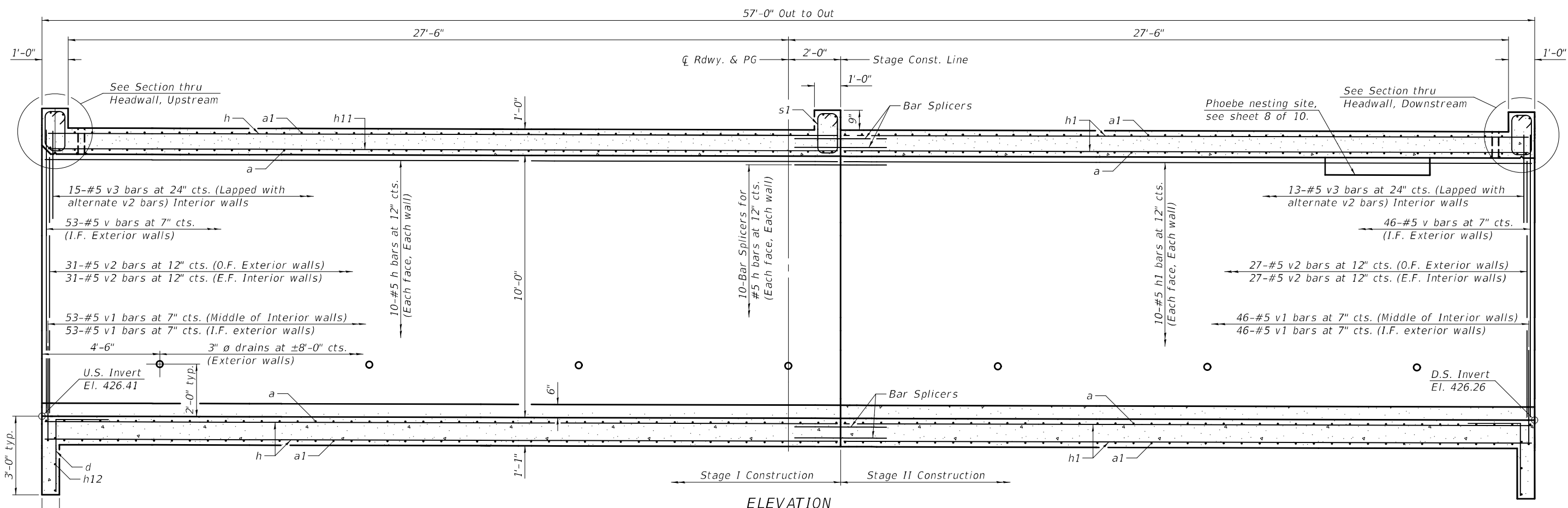
DATE -	DECEMBER 10, 2021
REVISED -	
REVISED -	

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

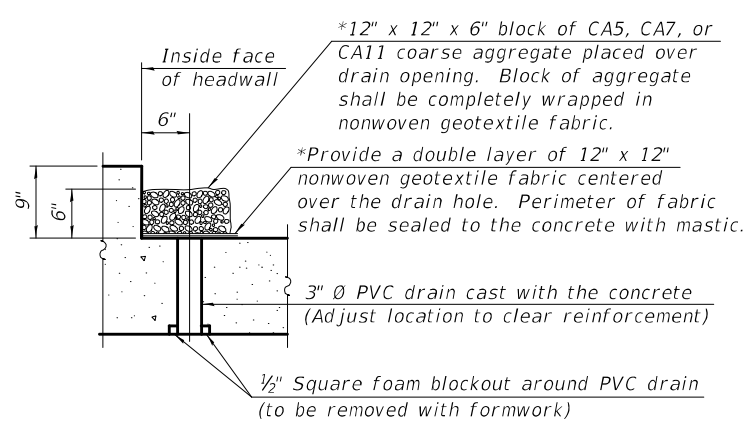
**TOP & BOTTOM SLAB**  
**STRUCTURE NO. 051-2010**

SHEET 5 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15B)BR	LAWRENCE	38	20
CONTRACT NO. 74860				
ILLINOIS FED. AID PROJECT				



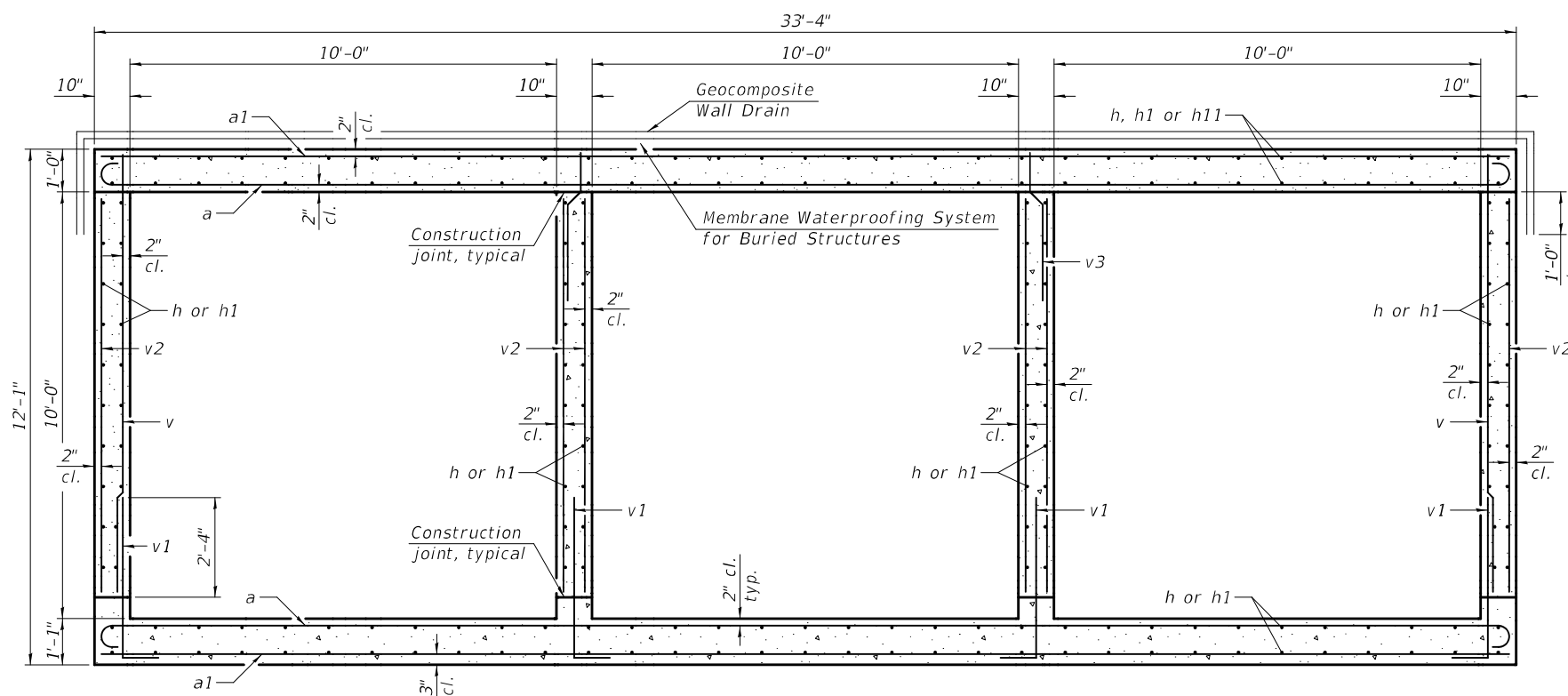
**MINIMUM BAR LAP**  
#5 Bar = 2'-2"



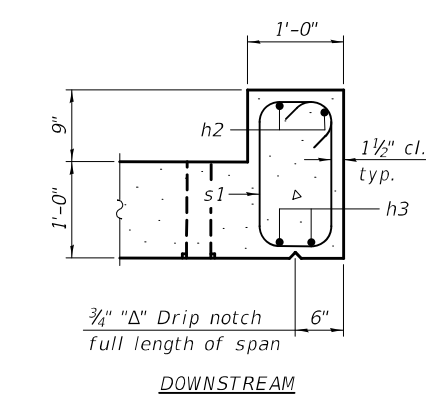
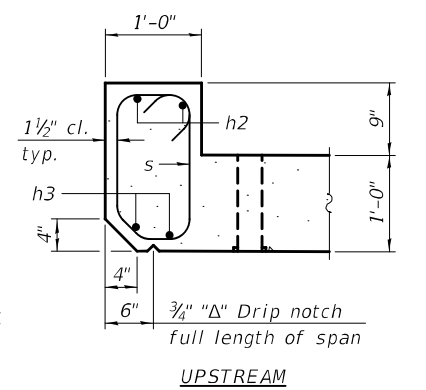
**DRAIN DETAIL**

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

\* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



**SECTION THRU BARREL**



**SECTION THRU HEADWALL**

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DESIGNED - HAMEED S. SALIH	EXAMINED -
CHECKED - MICHAEL A. PAULIONIS	PASSED -
DRAWN - DENNIS A. POP	
CHECKED - H.S.S. / M.A.P. / D.H.C.	

DATE - DECEMBER 10, 2021  
  
 ENGINEER OF BRIDGES AND STRUCTURES

REVISD -
REVISD -

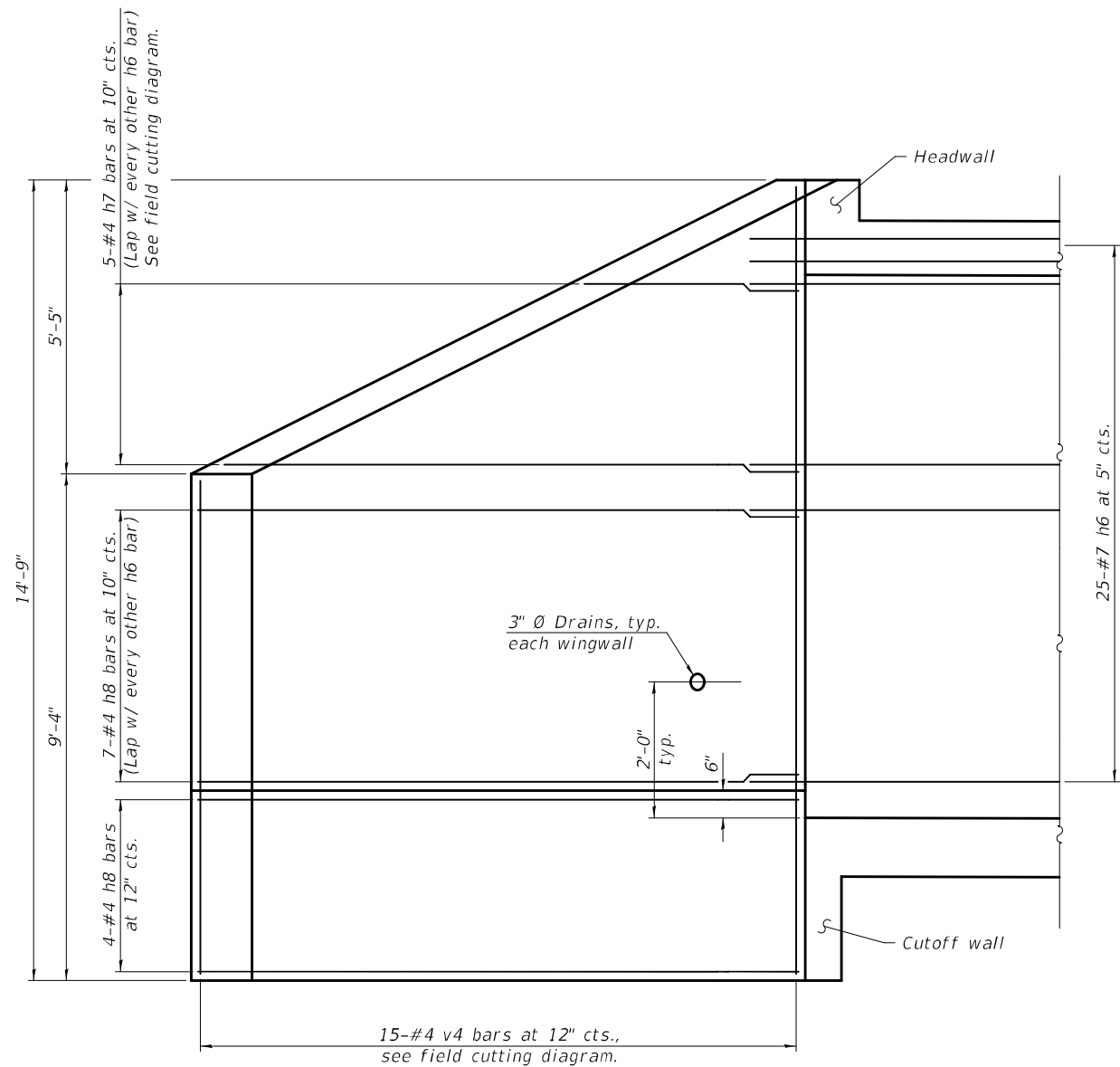
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CULVERT SECTIONS  
STRUCTURE NO. 051-2010**

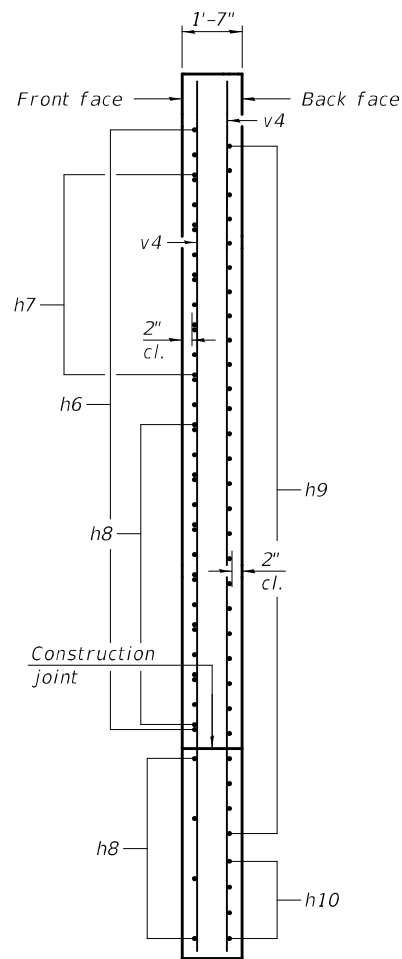
SHEET 6 OF 10 SHEETS

F.A.P. RTE. 332	SECTION (15B)BR	COUNTY LAWRENCE	TOTAL SHEETS 38	SHEET NO. 21
CONTRACT NO. 74860				
ILLINOIS FED. AID PROJECT				

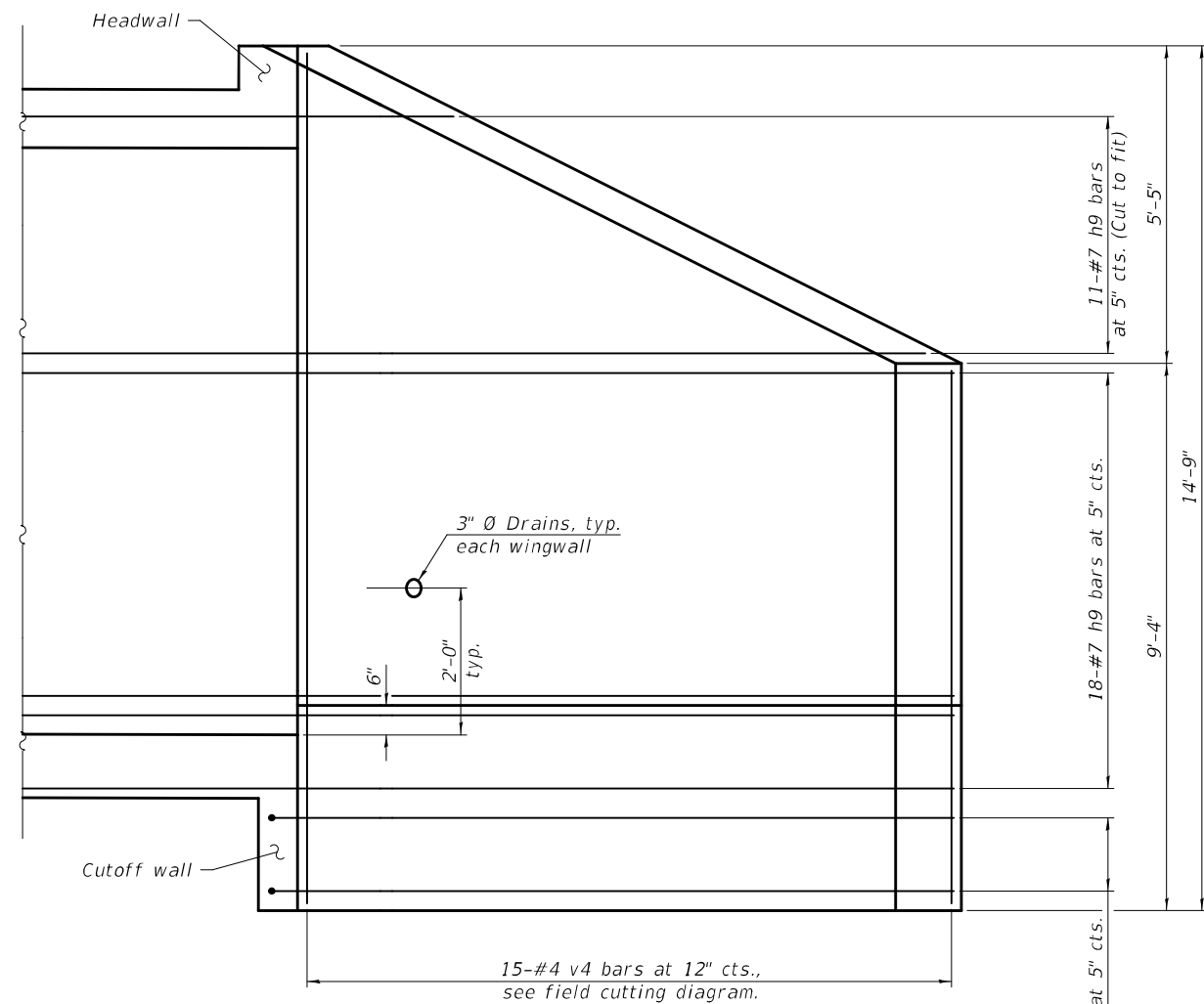
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**ELEVATION**  
 (Showing reinforcement in the front face)



**SECTION A-A**



**ELEVATION**  
 (Showing reinforcement in the back face)

DESIGNED -	HAMEED S. SALIH
CHECKED -	MICHAEL A. PAULIONIS
DRAWN -	DENNIS A. POP
CHECKED -	H.S.S. / M.A.P. / D.H.C.

EXAMINED	<i>Joanne F. Salih</i> ENGINEER OF BRIDGE DESIGN
PASSED	<i>Carl Kasper</i> ENGINEER OF BRIDGES AND STRUCTURES

DATE -	DECEMBER 10, 2021
REVISED -	
REVISED -	

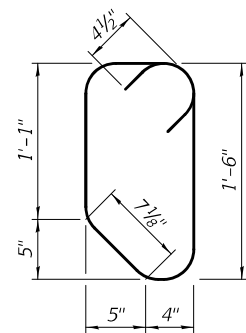
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**WINGWALL DETAILS**  
**STRUCTURE NO. 051-2010**

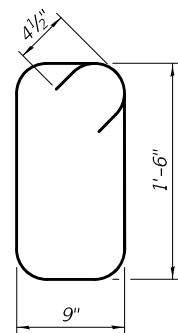
SHEET 7 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15BY)BR	LAWRENCE	38	22
CONTRACT NO. 74860				
ILLINOIS FED. AID PROJECT				

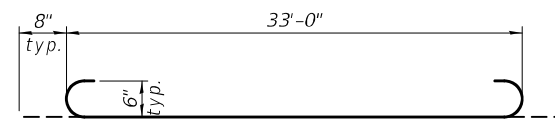




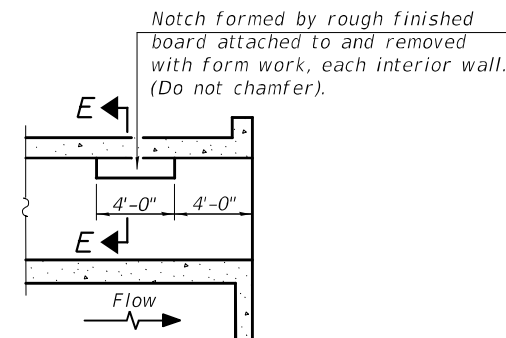
**BAR s**



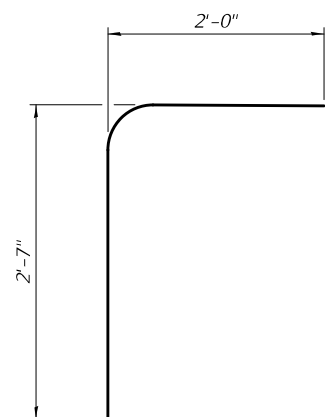
**BAR s1**



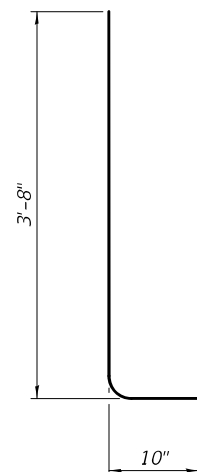
**BAR a**



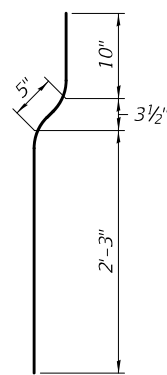
**LONGITUDINAL SECTION**



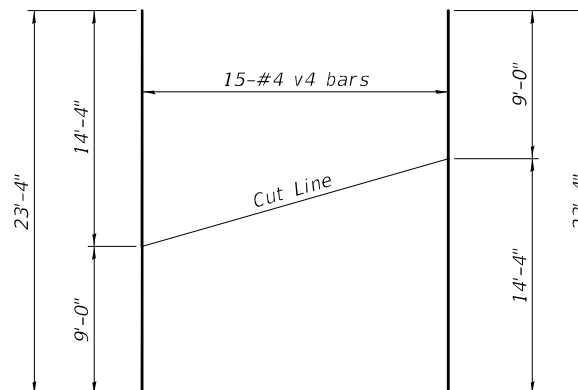
**BAR d**



**BAR v1**

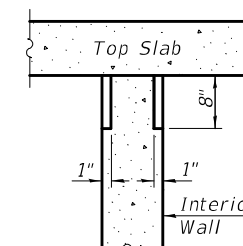


**BAR v3**



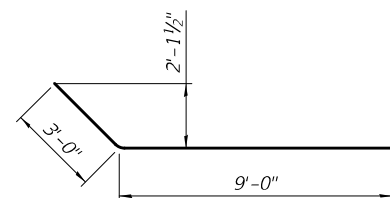
**FIELD CUTTING DIAGRAM**

(Order v4 bars full length. Cut as shown and use remainder of bars in opposite face of wingwall. Number of bars called out in the diagram is for one wingwall).

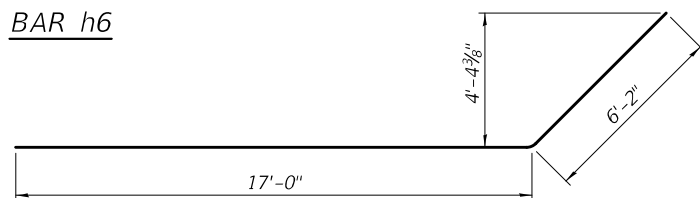


**SECTION E-E**

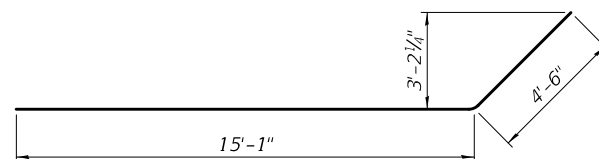
**PHOEBE NESTING SITE DETAILS**  
(Downstream End Only)



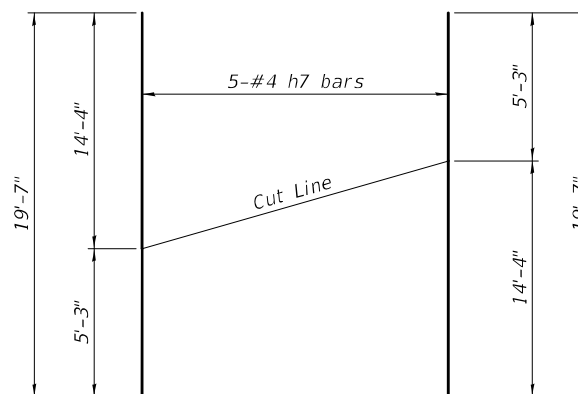
**BAR h6**



**BAR h9**



**BAR h10**



**FIELD CUTTING DIAGRAM**

(Order h7 bars full length. Cut as shown and use remainder of bars in opposite wingwall. Number of bars called out in the diagram is for two wingwalls).

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a	167	#6	34'-4"	
a1	167	#6	33'-0"	
d	68	#4	4'-7"	
h	182	#5	30'-2"	
h1	216	#5	26'-2"	
h2	4	#7	33'-9"	
h3	4	#6	33'-9"	
h4	2	#7	33'-0"	
h5	2	#6	33'-0"	
h6	100	#7	12'-0"	
h7	10	#4	19'-7"	
h8	44	#4	14'-11"	
h9	116	#7	23'-2"	
h10	16	#7	19'-7"	
h11	34	#5	29'-11"	
h12	6	#5	33'-0"	
s	32	#4	5'-0"	
s1	66	#4	5'-3"	
v	198	#5	10'-2"	
v1	396	#5	4'-6"	
v2	348	#5	9'-2"	
v3	56	#5	3'-6"	
v4	60	#4	23'-4"	
v5	12	#4	10'-8"	
Concrete Box Culverts	Cu. Yd.	275.3		
Reinforcement Bars	Pound	48,700		

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FILE NAME: p:\w\p\w\benley.com\FW\DOT\Documents\DOT Offices\Bureau of Bridges and Structures\Projects\0512010\CADD Plans\0512010-74860.dgn

DESIGNED - HAMEED S. SALIH  
CHECKED - MICHAEL A. PAULIONIS  
DRAWN - DENNIS A. POP  
CHECKED - H.S.S. / M.A.P. / D.H.C.

EXAMINED  
PASSED  
ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 10, 2021  
REVISED -  
REVISED -

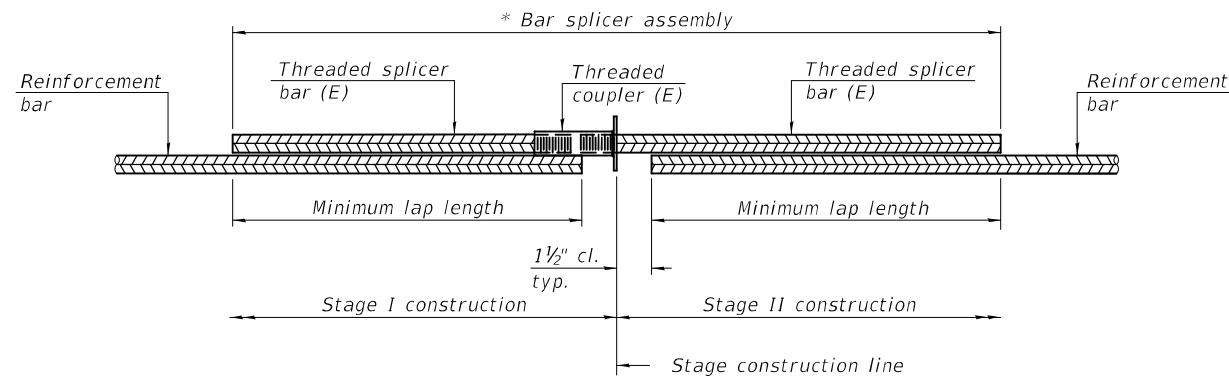
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS**  
**STRUCTURE NO. 051-2010**

SHEET 8 OF 10 SHEETS

F.A.P. RTE. 332 SECTION (15B)BR COUNTY LAWRENCE TOTAL SHEETS 38 SHEET NO. 23 CONTRACT NO. 74860 ILLINOIS FED. AID PROJECT

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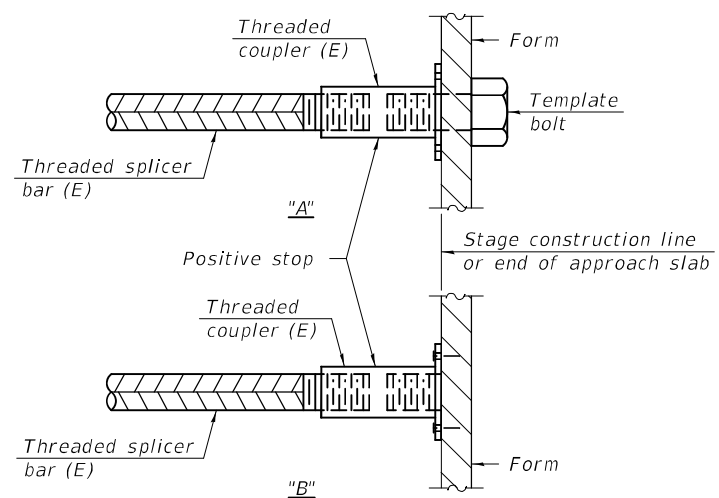


**STANDARD BAR SPLICER ASSEMBLY PLAN**  
 (All components shall be provided from one supplier)

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

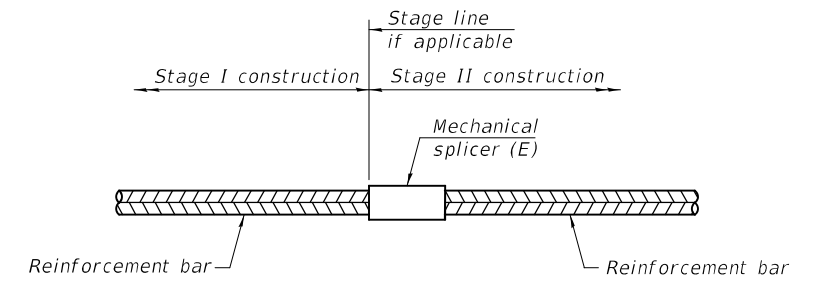
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top slab	#5	68	2'-2"
Walls	#5	80	2'-9"
Bottom slab	#5	68	2'-2"



**INSTALLATION AND SETTING METHODS**

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



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required

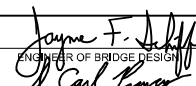
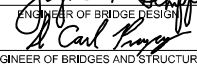
Notes:  
 Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard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

MODEL: 0512010-74860-009  
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BSD-1

1-1-2020

DESIGNED -	HAMEED S. SALIH
CHECKED -	MICHAEL A. PAULIONIS
DRAWN -	DENNIS A. POP
CHECKED -	H.S.S. / M.A.P. / D.H.C.

EXAMINED		DATE -	DECEMBER 10, 2021
PASSED		REVISED -	
	ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY DETAILS  
 STRUCTURE NO. 051-2010**

SHEET 9 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(15BY)BR	LAWRENCE	38	24
CONTRACT NO. 74860				
ILLINOIS FED. AID PROJECT				

Page 1 of 1

Date 4/29/19

Illinois Department of Transportation  
Division of Highways  
IDOT

## SOIL BORING LOG

ROUTE FAP 332 (IL 1) DESCRIPTION South Abutment LOGGED BY E. Sandschafer

SECTION (15BY)BR LOCATION Big Slough, SEC. 36, TWP. 3N, RNG. 36W, 2 PM

COUNTY Lawrence DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 051-0008 (E)  
Station 051-2010 (P)  
891+00

BORING NO. B-1  
Station 890+68  
Offset 15.0ft West  
Ground Surface Elev. 439.24 ft

DEPTH (ft)	BLOW COUNT	SPT VALUE	REMARKS	DEPTH (ft)	BLOW COUNT	SPT VALUE	REMARKS
			Surface Water Elev. <u>427.89</u> ft				
			Stream Bed Elev. <u>427.54</u> ft				
			Groundwater Elev.:				
			∇ First Encounter <u>414.7</u> ft				
			∇ Upon Completion <u>431.2</u> ft				
			∇ After 144 Hrs. <u>433.7</u> ft				
10"			Aggregate Shoulder				
			Brown, CLAY with Aggregate				
			Brown, CLAY				
			Stiff, moist, brown, CLAY				
			Very soft, wet, brown				
			Extent of Exploration.				
			Brown & grey marbled				
			Very soft, moist, brownish tan, SILT				
			Medium, moist, tan SILTY CLAY LOAM				
			Stiff, brown & grey marbled				
			Very soft, moist, grey, SILT				
			Stiff, moist, brown & grey marbled, CLAY				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W,O,H - Sampler Advanced By Weight of Hammer, W,O,P - Advanced by Weight of Pipe, B,S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

Page 1 of 1

Date 4/29/19

Illinois Department of Transportation  
Division of Highways  
IDOT

## SOIL BORING LOG

ROUTE FAP 332 (IL 1) DESCRIPTION North Abutment LOGGED BY E. Sandschafer

SECTION (15BY)BR LOCATION Big Slough, SEC. 36, TWP. 3N, RNG. 12W, 2 PM

COUNTY Lawrence DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 051-0008 (E)  
Station 051-2010 (P)  
891+00

BORING NO. B-2  
Station 891+28  
Offset 15.0ft East  
Ground Surface Elev. 439.20 ft

DEPTH (ft)	BLOW COUNT	SPT VALUE	REMARKS	DEPTH (ft)	BLOW COUNT	SPT VALUE	REMARKS
			Surface Water Elev. <u>427.89</u> ft				
			Stream Bed Elev. <u>427.54</u> ft				
			Groundwater Elev.:				
			∇ First Encounter <u>416.7</u> ft				
			∇ Upon Completion <u>431.2</u> ft				
			∇ After 144 Hrs. <u>433.8</u> ft				
10"			Aggregate Shoulder				
			Brown, SILTY CLAY with Aggregate				
			Dark brown, SILTY CLAY				
			Stiff, moist, with wood fragments				
			Medium				
			0% return, old timber fragments				
			Dark grey				
			Grey				
			Stiff, moist, brown & grey marbled, CLAY				
			Very stiff, brown				
			Brown mottled grey				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W,O,H - Sampler Advanced By Weight of Hammer, W,O,P - Advanced by Weight of Pipe, B,S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

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DESIGNED - HAMEED S. SALIH  
CHECKED - MICHAEL A. PAULIONIS  
DRAWN - DENNIS A. POP  
CHECKED - H.S.S. / M.A.P. / D.H.C.

EXAMINED *Joanne F. Salifu*  
PASSED *Carl Ringer*  
ENGINEER OF BRIDGE DESIGN  
ENGINEER OF BRIDGES AND STRUCTURES

DATE - DECEMBER 10, 2021  
REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS  
STRUCTURE NO. 051-2010**

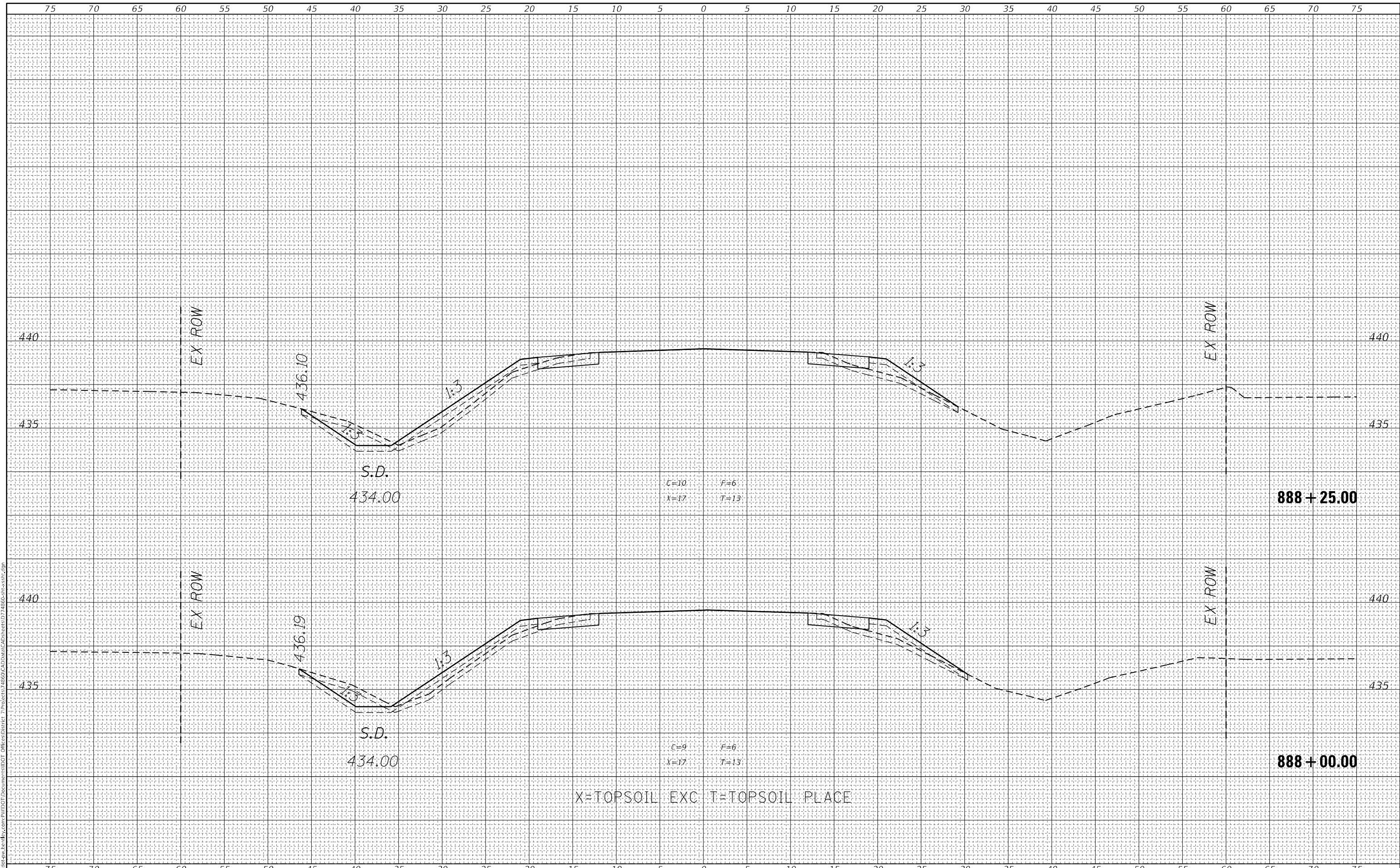
SHEET 10 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74860				
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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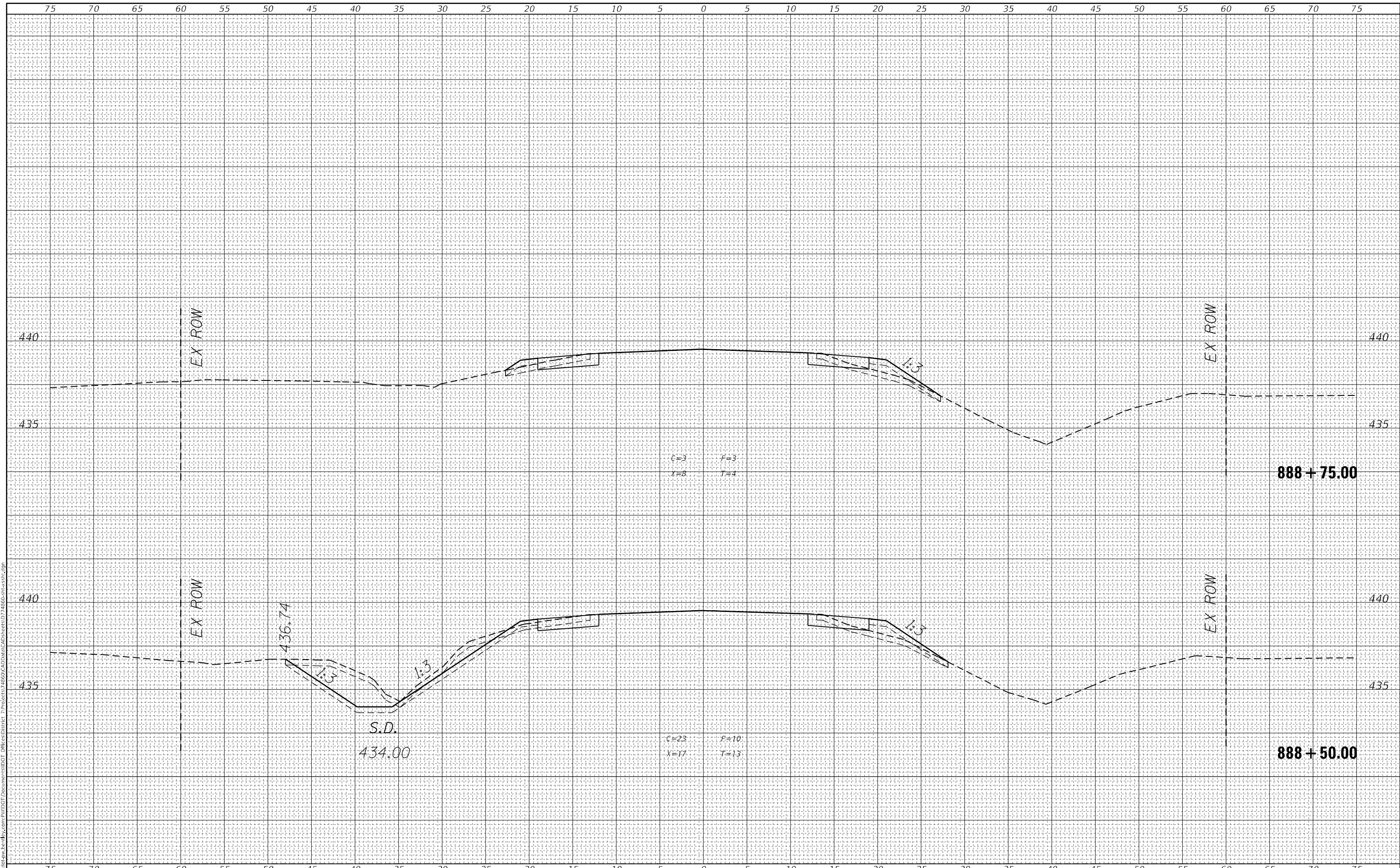
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			CONTRACT NO. 74860	
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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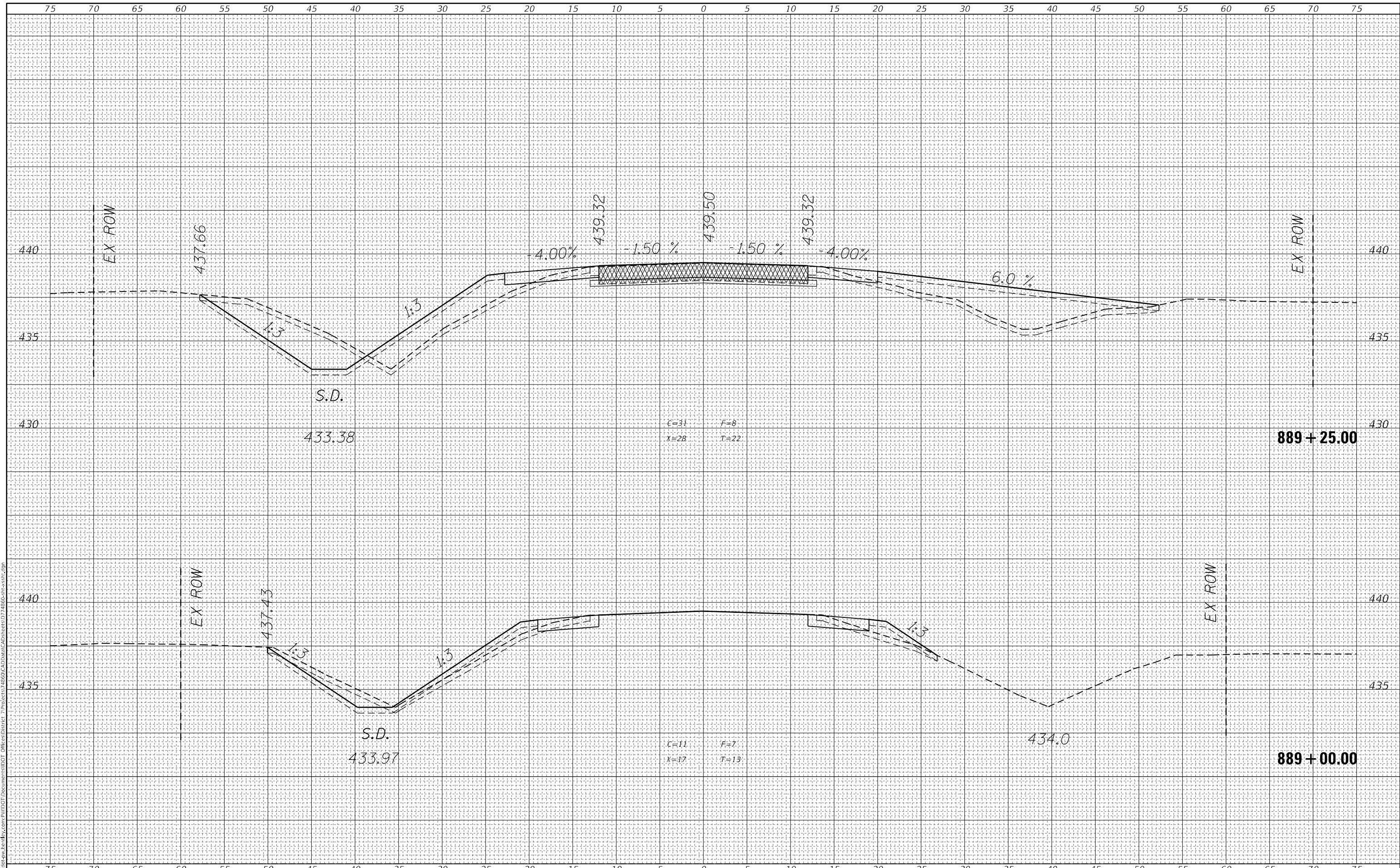
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			CONTRACT NO. 74860	
ILLINOIS FED. AID PROJECT				

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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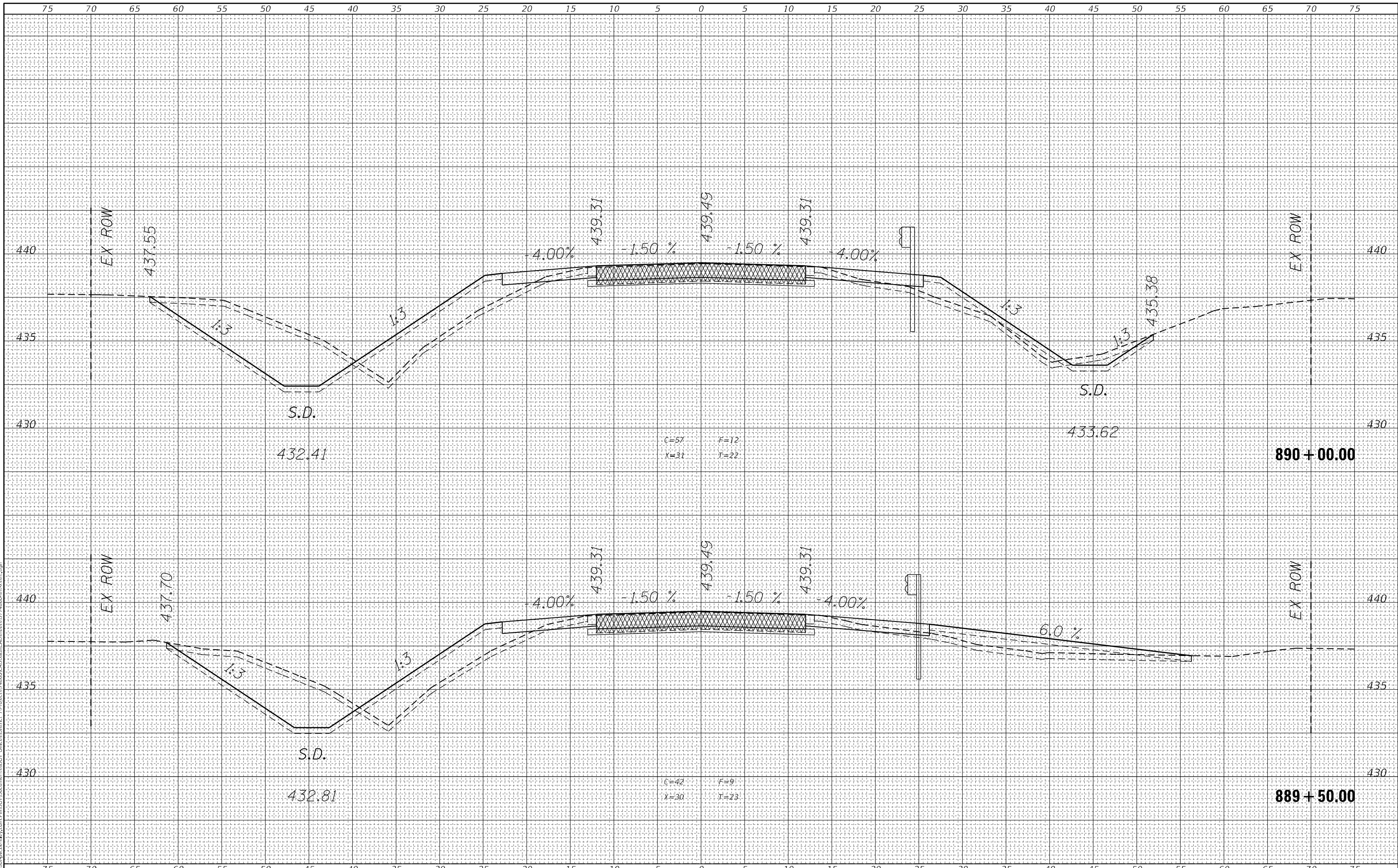
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ILLINOIS		FED. AID PROJECT		



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

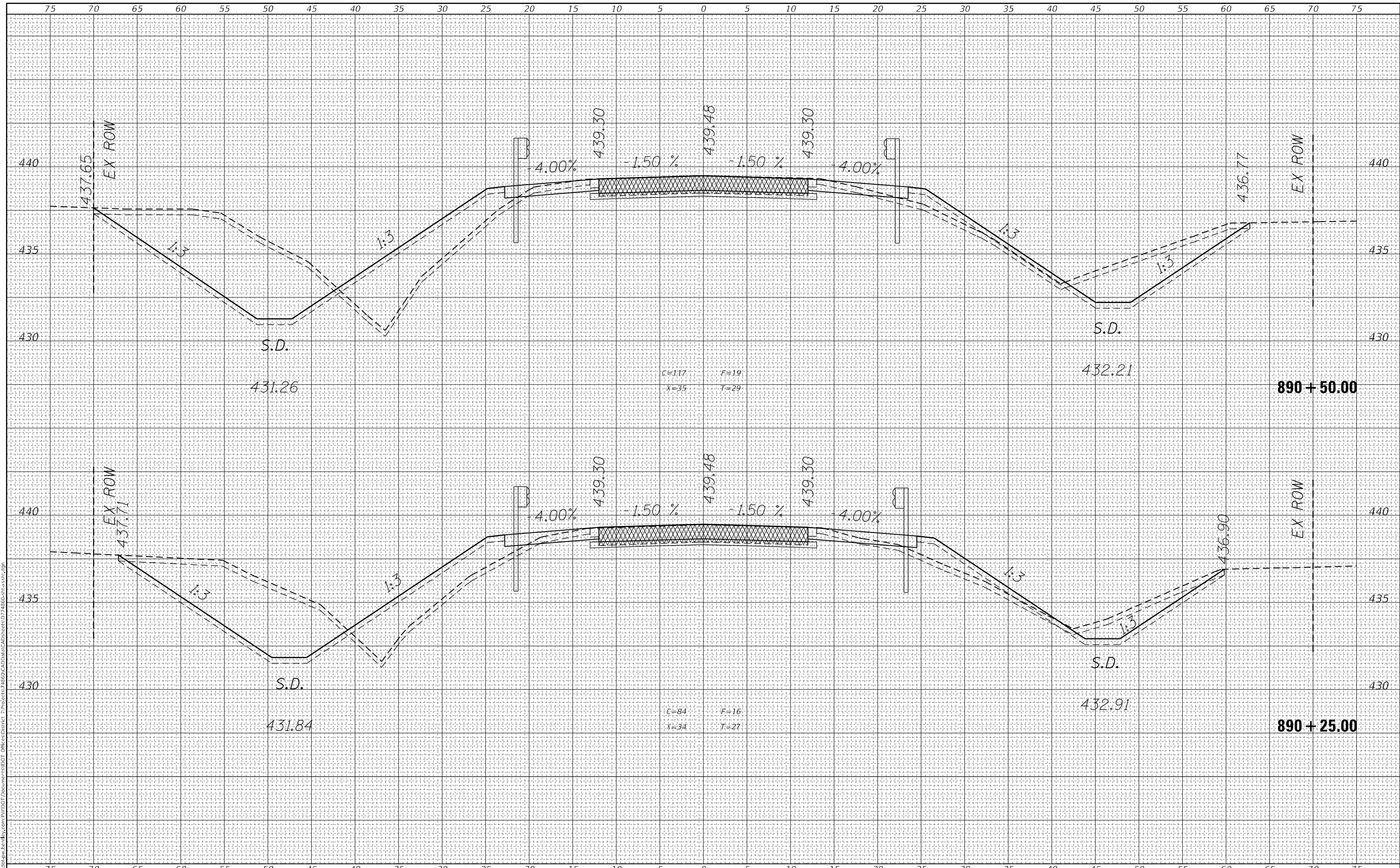
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ILLINOIS		FED. AID PROJECT		

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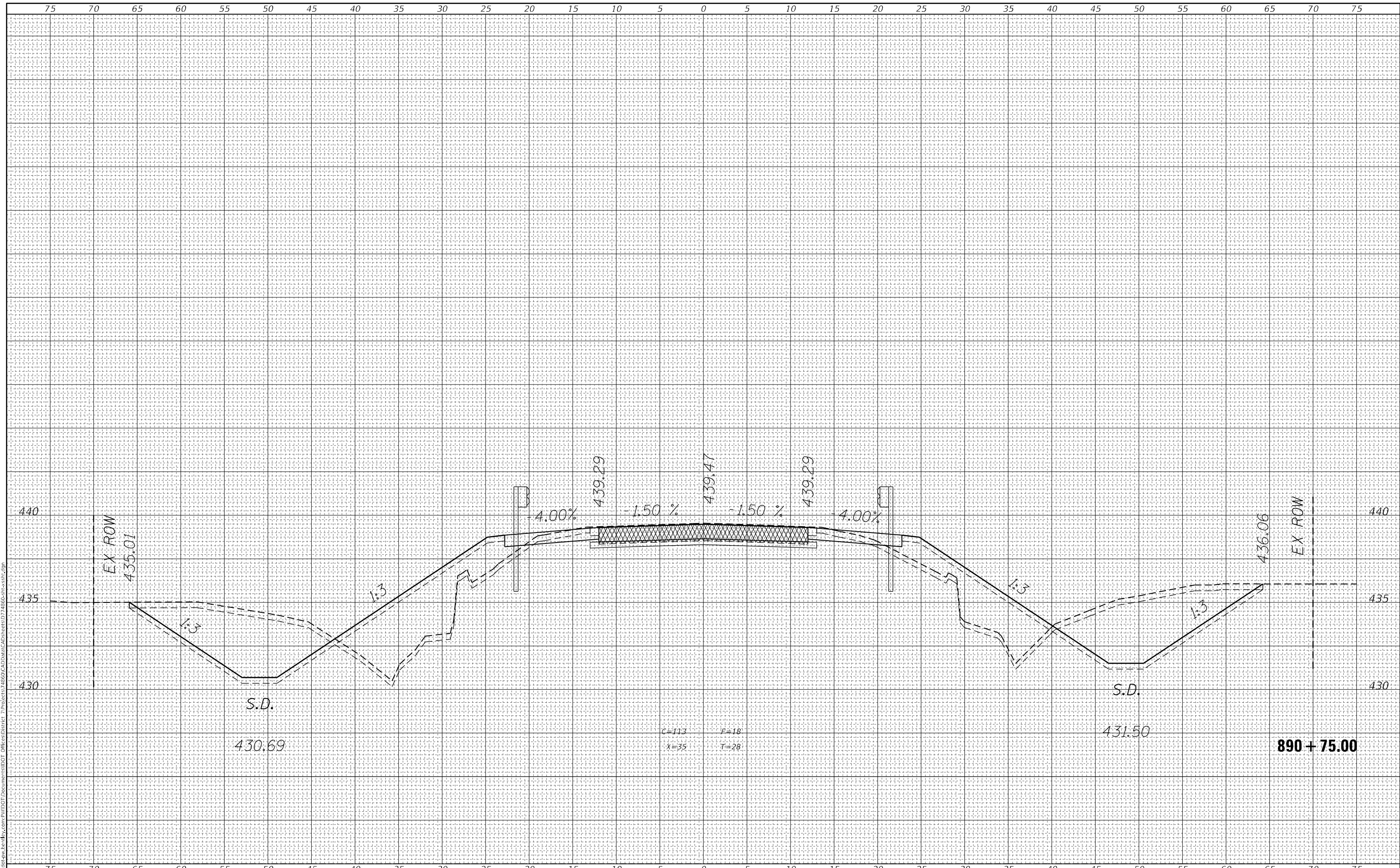
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332	(15BY)BR	LAWRENCE	38	30
CONTRACT NO. 74860				
ILLINOIS		FED. AID PROJECT		

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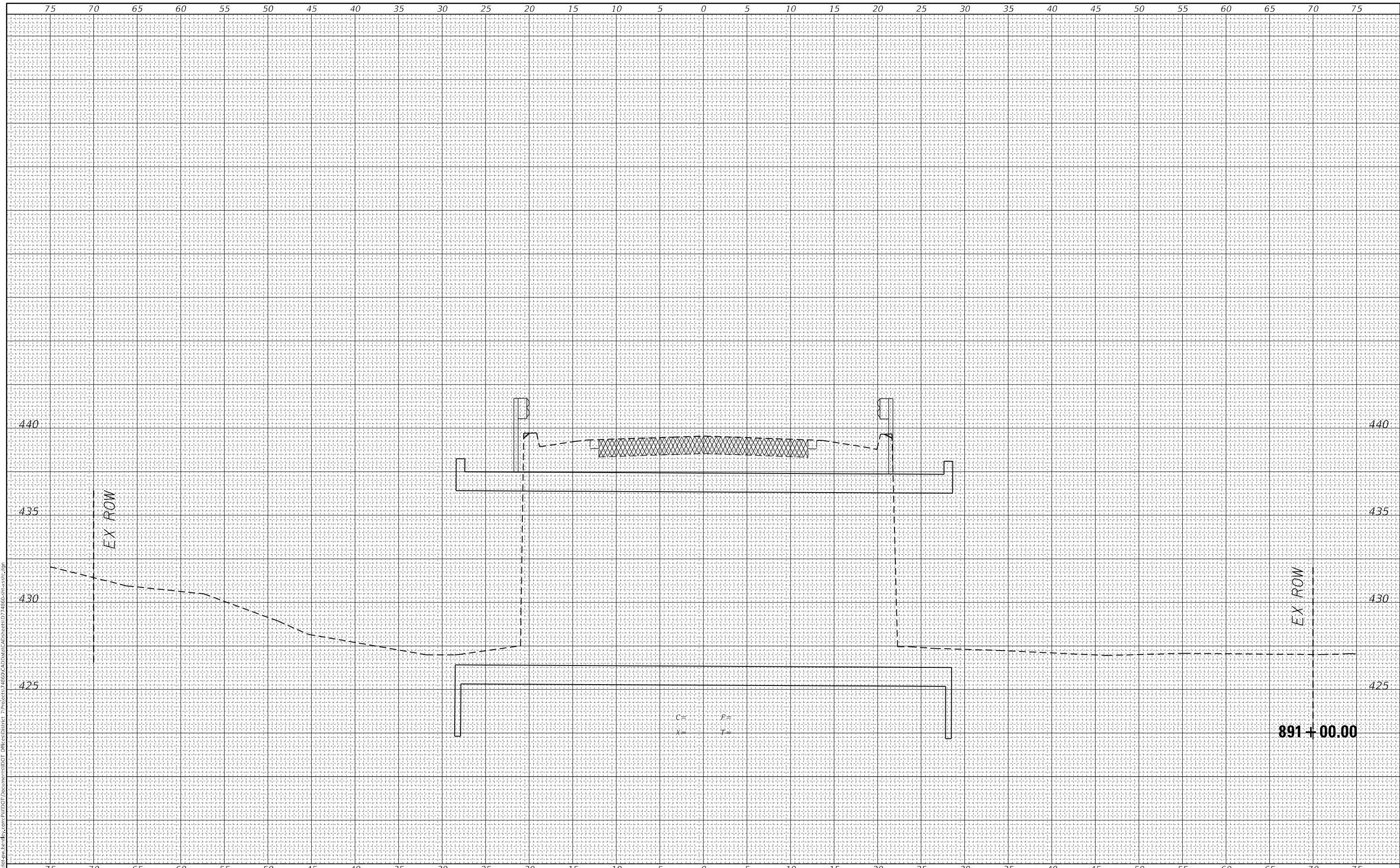
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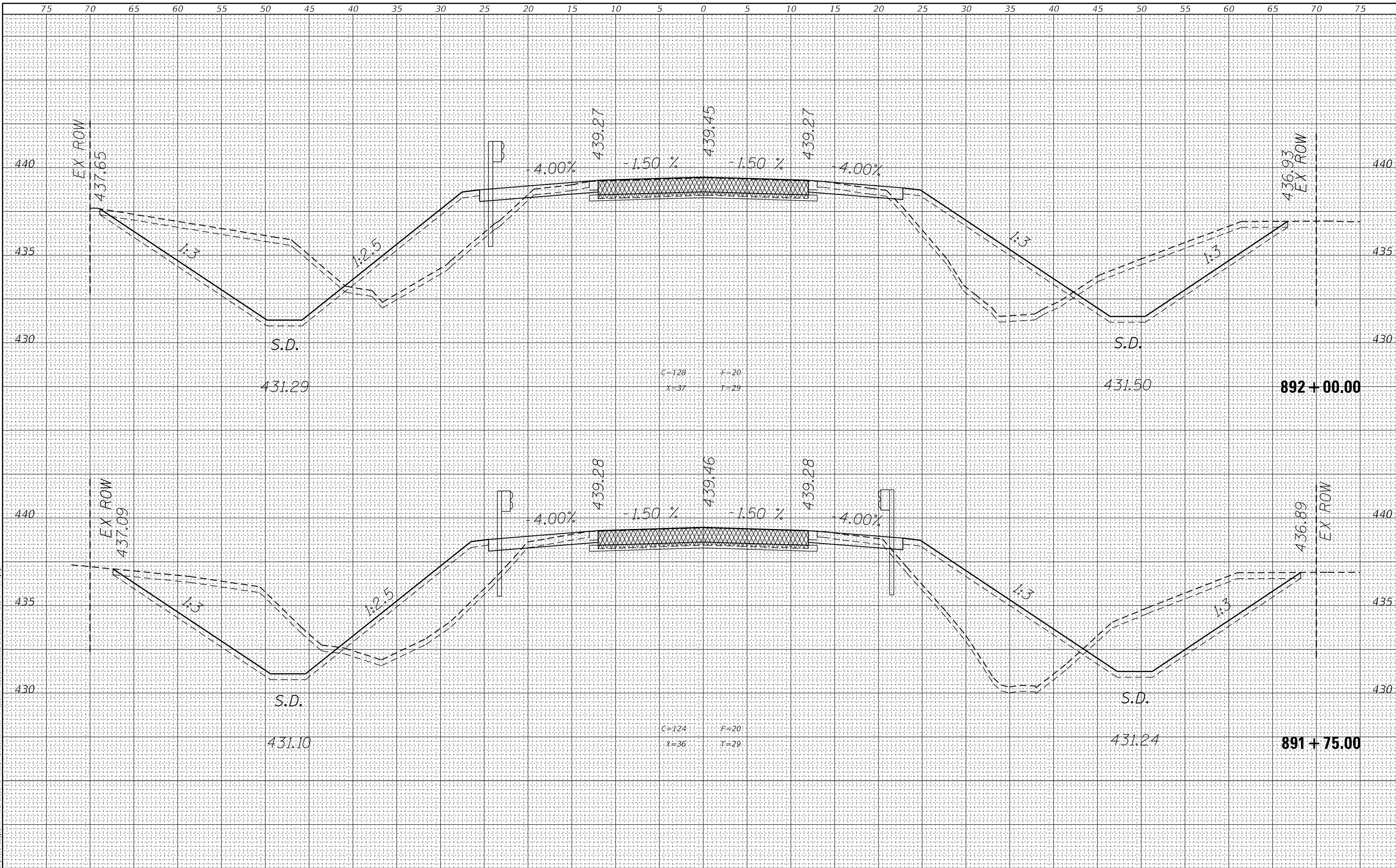
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ILLINOIS FED. AID PROJECT				



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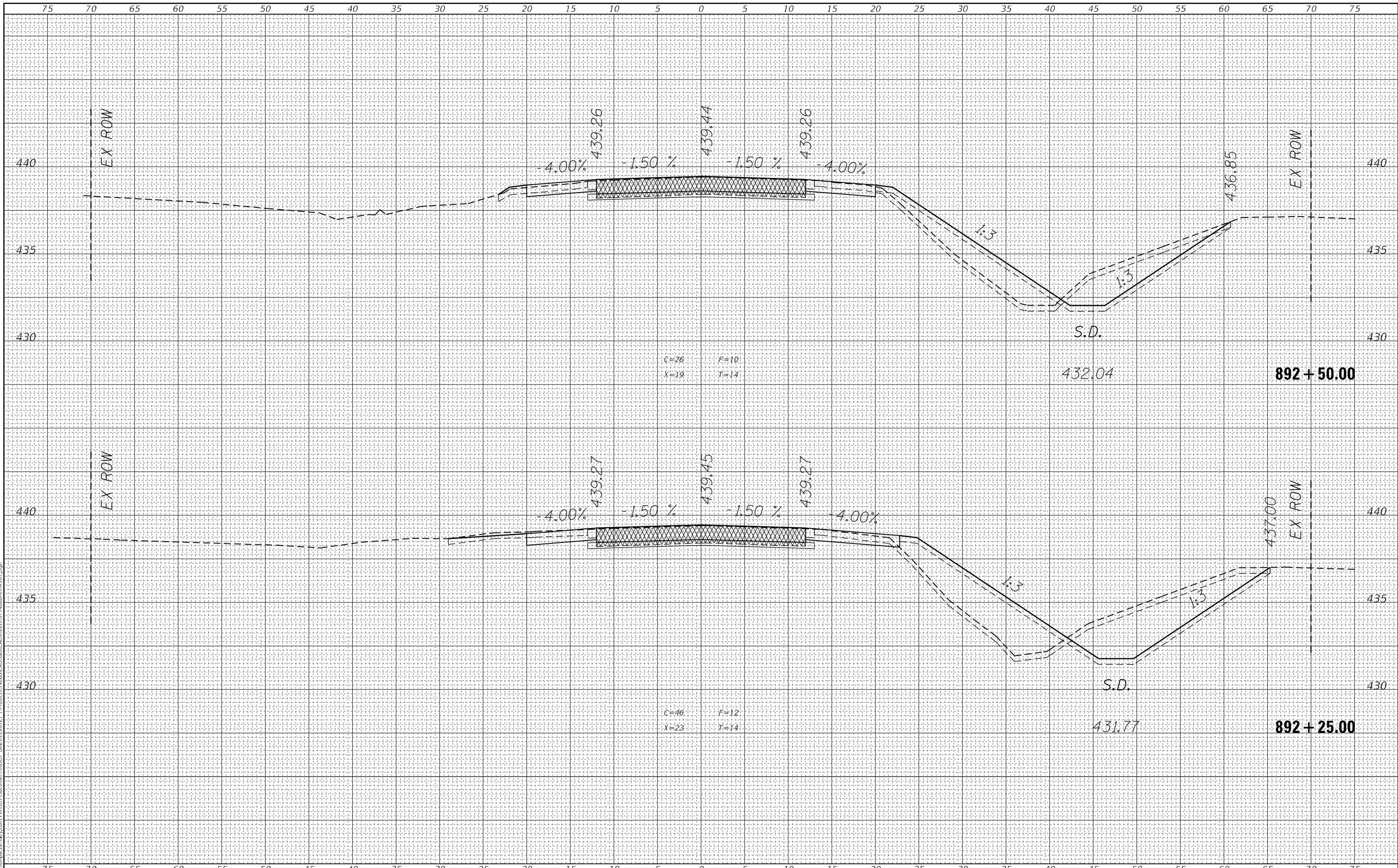
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									ILLINOIS FED. AID PROJECT	



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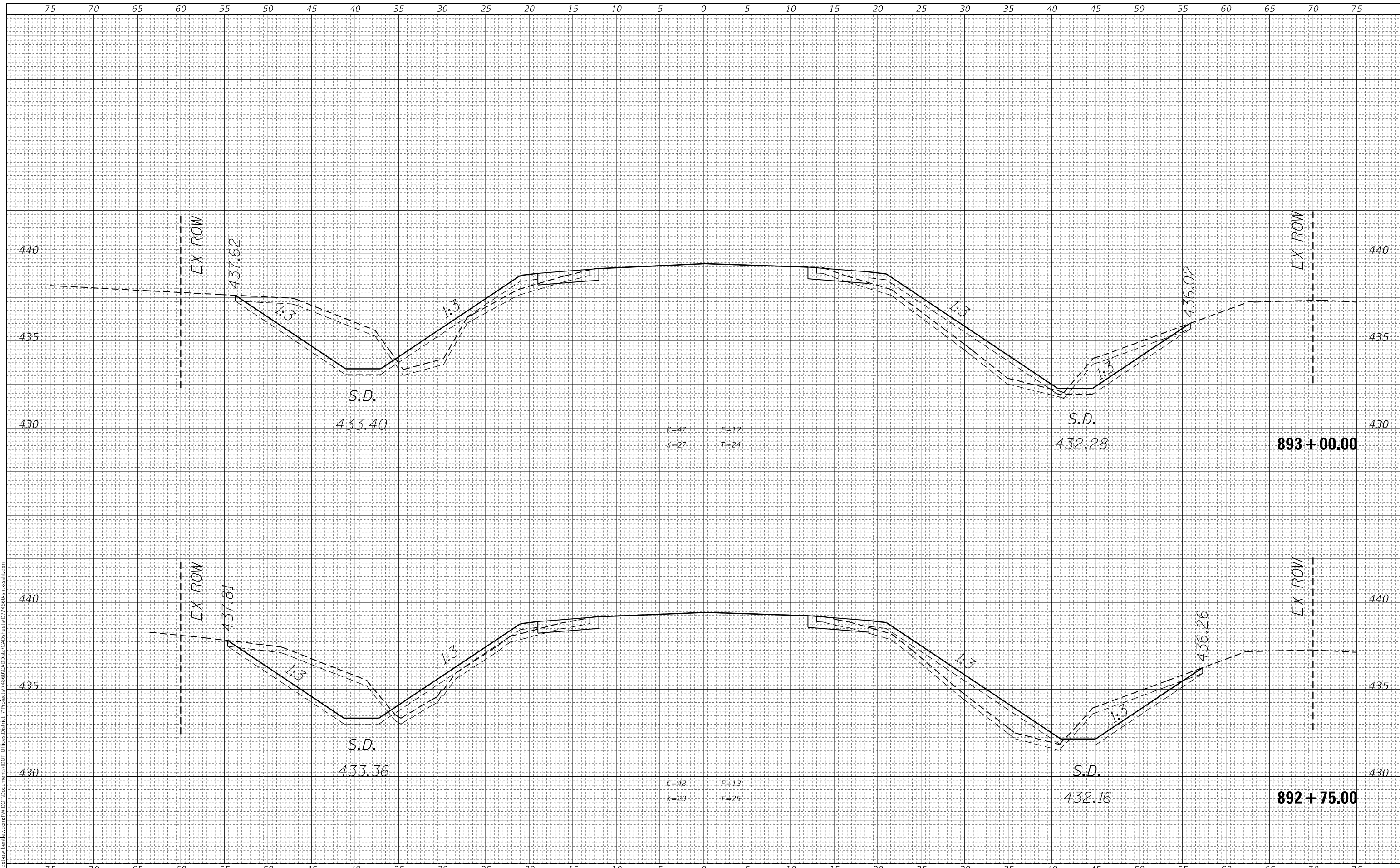
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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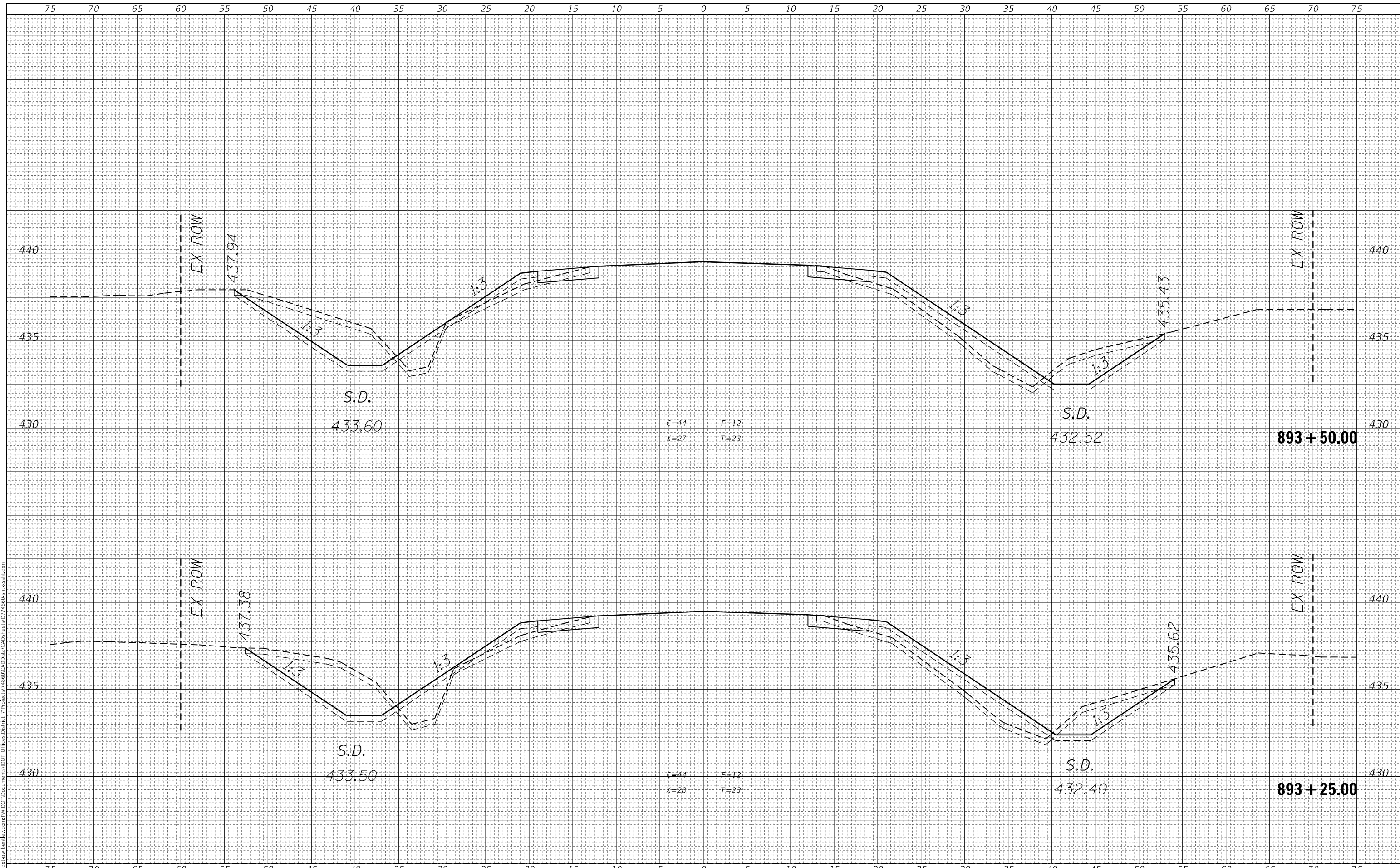
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USER NAME = stefenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 10/21/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

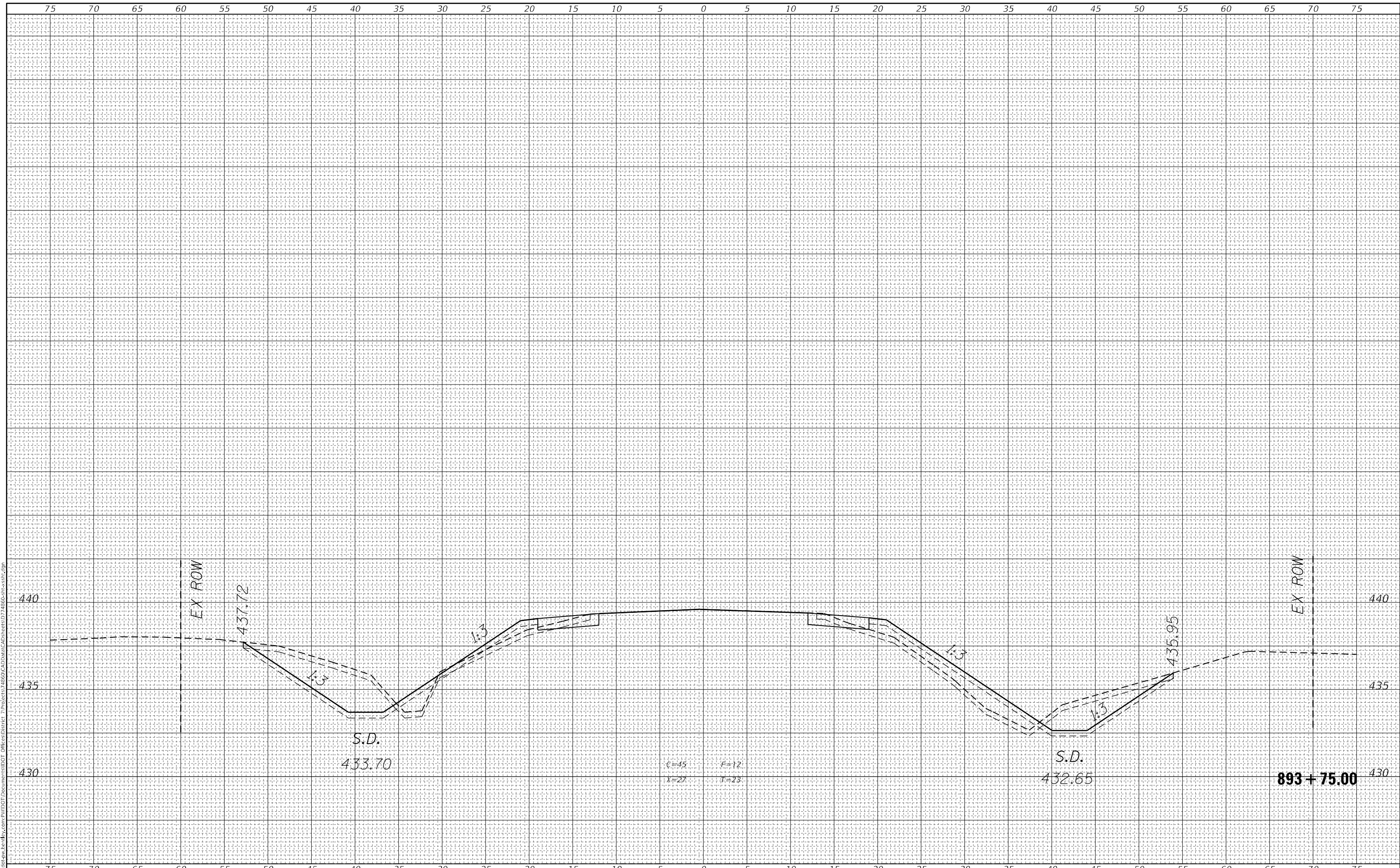
<b>CROSS SECTIONS</b>			
SCALE:	SHEET	OF	SHEETS
			STA. 893+25.00 TO STA. 893+50.00

F.A.P. RTE. 332	SECTION (15BY)BR	COUNTY LAWRENCE	TOTAL SHEETS 38	SHEET NO. 37
			CONTRACT NO. 74860	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
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USER NAME = stefenmk	DESIGNED -	REVISED -
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PLOT SCALE = 10,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 10/21/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 893+75.00 TO STA. 893+75.00

F.A.P. RTE. 332	SECTION (15BY)BR	COUNTY LAWRENCE	TOTAL SHEETS 38	SHEET NO. 38
			CONTRACT NO. 74860	
ILLINOIS FED. AID PROJECT				