

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	1
		ILLINOIS	CONTRACT NO. 78684	

FOR INDEX OF SHEETS, SEE SHEET NO. 3

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-8

**PROPOSED
HIGHWAY PLANS**

FAS ROUTE 2826 (IL 37)
SECTION 1B-2
PROJECT NHPP-M01X(960)
STRUCTURE REPLACEMENT
JEFFERSON COUNTY

TRAFFIC DATA

ROADWAY CLASSIFICATION = PRINCIPAL ARTERIAL
DESIGN SPEED = 50 MPH
CURRENT ADT (2017) = 6,000
SU = 4.2%
MU = 5.0%

TOWNSHIPS

DODDS

DESIGN DESIGNATION : NA

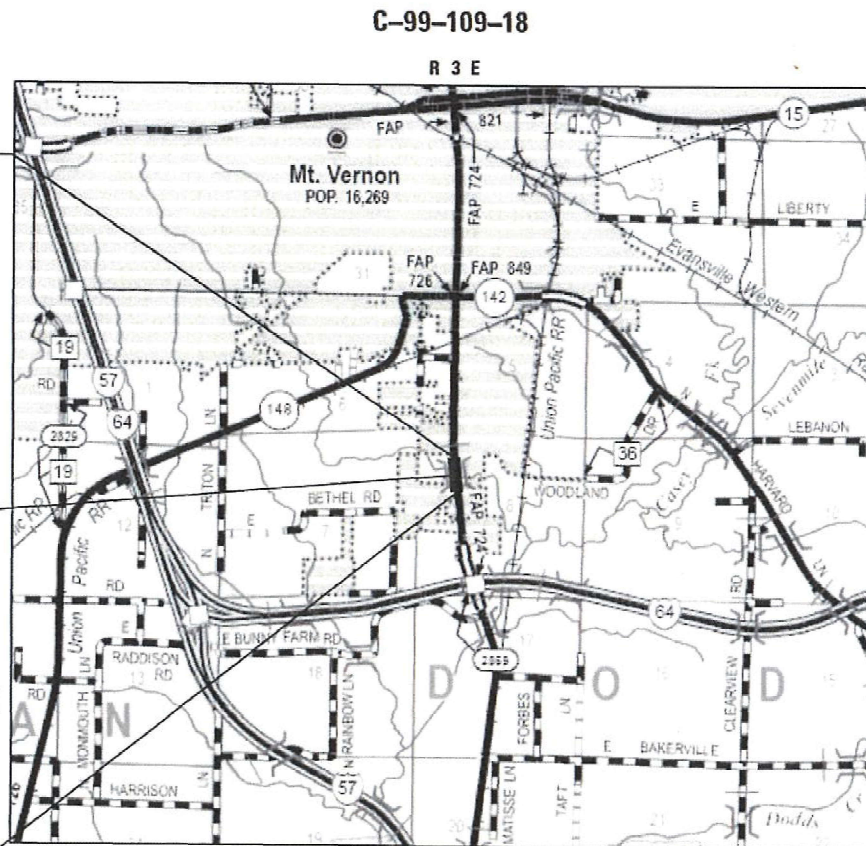
COORDINATE SYSTEM : STATE PLANE ZONE - ILLINOIS EAST

POSTED SPEED : 45 MPH

END IMPROVEMENTS
STA. 86 + 00.00 (IL 37)

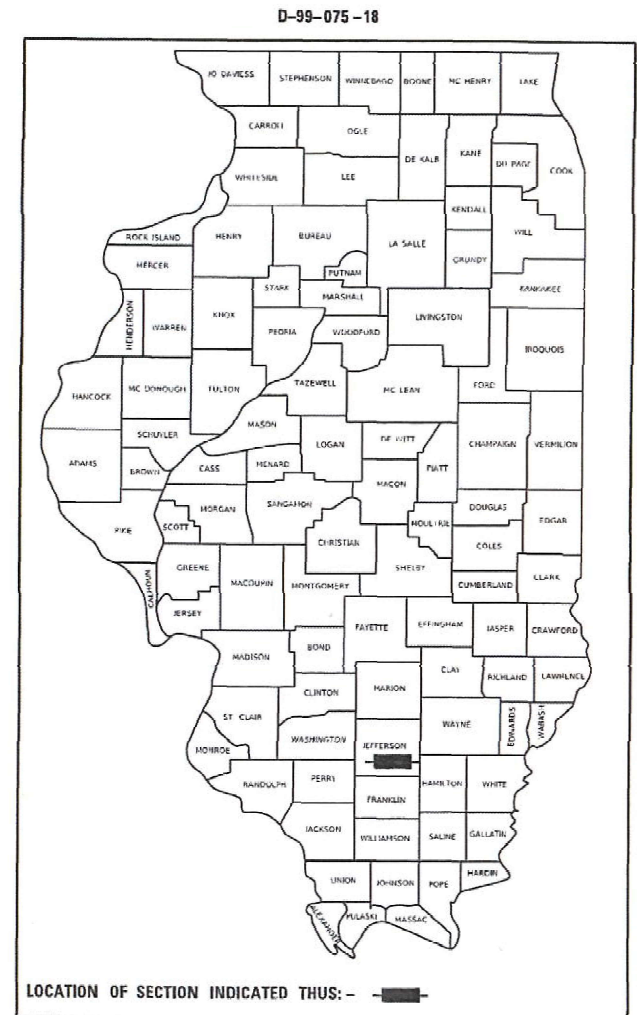
PROJECT LOCATION
EXISTING SN 041-0031
☉ STRUCTURE STA 85 + 68
PROPOSED SN 041-2023
☉ STRUCTURE STA 85 + 64
IL 37 OVER UNNAMED STREAM
TRIPLE 10' x 8' CAST-IN-PLACE
CONCRETE BOX CULVERTS
43'-0" 0.-0. NO SKEW

BEGIN IMPROVEMENTS
STA. 85 + 25.00 (IL 37)



LOCATION MAP
(NOT TO SCALE)

GROSS LENGTH = 75 FT = (0.014 MILE)
NET LENGTH = 75 FT = (0.014 MILE)



Collinsville
100 Lanter Court, Suite 1
Collinsville, IL 62234
618.345.2200

St. Louis
720 Olive, Suite 700
St. Louis, MO 63101
314.588.8381

Belleville
20 East Main Street
Belleville, IL 62200
618.416.4688
www.oatesassociates.com

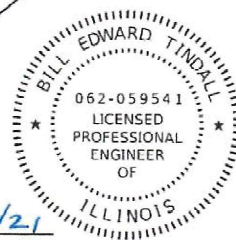
St. Charles
330 North Main, Suite 201
St. Charles, MO 63301
636.493.6277

ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115

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

PROJECT ENGINEER: GRANT DETERDING

CONTRACT NO. 78684



Bill Tindall, P.E. 3/9/21
BILL TINDALL, P.E.
License Expires 11/30/2021

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 03-11-2021
[Signature]
REGION FIVE ENGINEER

May 7, 2021
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

May 7, 2021
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
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DISTRICT OPERATIONS ENGINEER

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Examined By: Daryl J. Jellison
DISTRICT CONSTRUCTION ENGINEER

Examined By: R. C. O.
DISTRICT MATERIALS ENGINEER

MODEL: Desktop
FILE NAME: I:\P\1812011120.007 - 137 5. of Mt. Vernon\CADD\Microstation\CADD Drawings\0978684-dht-dpmainure.dgn
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNATURE SHEET

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	2
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

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HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-09 PAVEMENT JOINTS
- 420701-03 PAVEMENT WELDED WIRE REINFORCEMENT
- 515001-04 NAME PLATE FOR BRIDGES
- 542306-03 PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
- 602406-11 PRECAST MANHOLE TYPE A 6' DIAMETER
- 602701-02 MANHOLE STEPS
- 604036-03 GRATE TYPE 8
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630201-07 PCC / HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631011-10 TRAFFIC BARRIER TERMINAL, TYPE 2
- 631032-09 TRAFFIC BARRIER TERMINAL, TYPE 6A
- 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701201-05 LANE CLOSURE 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45MPH
- 701301-04 LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE 2L, 2W, MOVING OPERATIONS
- 701321-18 LANE CLOSURE 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701901-08 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 725001-01 OBJECT AND TERMINAL MARKERS
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

HMA MIX REQUIREMENT TABLE

LOCATIONS:	IL ROUTE 37	IL ROUTE 37	IL ROUTE 37
MIXTURE USE(S):	HOT-MIX ASPHALT SHOULDERS (TOP LIFT)	HOT-MIX ASPHALT SHOULDERS (LOWER LIFT)	HOT-MIX ASPHALT BASE COURSE WIDENING
AB/PG:	PG64-22	PG64-22	PG64-22
ABR % (MAX):	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0 % @ N30	4.0 % @ N30	4.0 % @ N70
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5L	IL-19.0L	IL-19.0
FRICTION AGGREGATE:	NONE	NONE	NONE
MIXTURE WEIGHT:	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN	112 LBS/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA	QCQA
SUBLOT SIZE:	N/A	N/A	N/A

GENERAL NOTES

1. FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT MIX ASPHALT	2.016 TONS/CU. YD.
ALL AGGREGATE	2.05 TONS/CU. YD.
RIPRAP	1.50 TONS/CU. YD.
2. THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE HMA SURFACE REMOVAL, BINDER COURSE, AND SURFACE COURSE
3. TRENCH BACKFILL REQUIRED FOR STORM SEWER, SANITARY SEWER, OR WATER MAINS SHALL ONLY BE PLACED UP TO ONE FOOT BELOW THE FINAL GRADE IN AREAS HAVING A PROPOSED GRASS OR SOD SURFACE.
4. AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.
5. TO RETAIN THE TEMPORARY CONCRETE BARRIER FOR STAGE II TRAFFIC, THE CONTRACTOR SHALL HAVE THE OPTION OF USING EITHER 2 (#5) BAR SPLICER OR 2 CAST-IN-PLACE INSERTS AT 6" CENTERS AT THE MID-DEPTH OF THE PCC PAVEMENT. THE BAR SPLICERS OR INSERTS SHALL HAVE A MINIMUM PROOF LOAD OF 5,000 POUNDS. ALONG WITH THE ANCHORING DEVICES, THE CONTRACTOR SHALL PROVIDE ONE STEEL RETAINING PLATE AND ½" DIAMETER BOLT AND WASHERS EVERY 6 FEET AS SHOWN ON DETAIL II ON STANDARD R-27 FROM STA. 85+25 TO STA. 86+00 FOR STAGE II TRAFFIC. THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER, NO ADDITIONAL COMPENSATION SHALL BE PROVIDED.

COMMITMENTS

EXISTING ENTRANCE AT STA. 85+00 LT WILL BE CLOSED DURING STAGE 2. ENTRANCE WILL BE CONSTRUCTED AT STA. 84+16.7 LT TO PROVIDE ACCESS TO PROPERTY

ENTRANCE AT STA. 84+16.7 LT WILL REMAIN AFTER PROJECT COMPLETION.

STRUCTURAL DESIGN TAFFIC:	Year: 2032
PV = 6330	SU = 290 MU = 350
ROAD/STREET CLASSIFICATION:	Class: I
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:	
P = 90.8%	S = 4.2% M = 5.0%
TRAFFIC FACTOR:	Actual TF = 2.39 Minimum TF = 4.59
SUBGRADE SUPPORT RATING:	SSR = POOR

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES & HIGHWAY STANDARDS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	3
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

COUNTY	JEFFERSON
ROUTE	FAP 724 (IL 37)
FUNDING	80% FED, 20% ST
LOCATION	URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
			SN 041-0031	CTC-0010
20200100	EARTH EXCAVATION	CU YD	105	105
20300100	CHANNEL EXCAVATION	CU YD	338	338
20700220	POROUS GRANULAR EMBANKMENT	CU YD	445	445
20800150	TRENCH BACKFILL	CU YD	14	14
25000200	SEEDING, CLASS 2	ACRE	0.25	0.25
25000350	SEEDING, CLASS 7	ACRE	0.25	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	25	25
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	25	25
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	25	25
25100115	MULCH, METHOD 2	ACRE	0.25	0.25
25100630	EROSION CONTROL BLANKET	SQ YD	70	70
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50	50
28000305	TEMPORARY DITCH CHECKS	FOOT	11	11
28000400	PERIMETER EROSION BARRIER	FOOT	582	582

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	4
CONTRACT NO. 78684			ILLINOIS FED. AID PROJECT	

COUNTY	JEFFERSON
ROUTE	FAP 724 (IL 37)
FUNDING	80% FED, 20% ST
LOCATION	URBAN
TOTAL QUANTITY	
	SN 041-0031
	CTC-0010

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
28000500	INLET AND PIPE PROTECTION	EACH	1	1
28100105	STONE RIPRAP, CLASS A3	SQ YD	22	22
28100109	STONE RIPRAP, CLASS A5	SQ YD	303	303
28200200	FILTER FABRIC	SQ YD	303	303
31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	359	359
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	227	227
40200500	AGGREGATE SURFACE COURSE, TYPE A 6"	SQ YD	102	102
40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	390	390
42000060	WELDED WIRE REINFORCEMENT	SQ YD	334	334
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	334	334
42001300	PROTECTIVE COAT	SQ YD	334	334
44000100	PAVEMENT REMOVAL	SQ YD	242	242
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	77	77
44004250	PAVED SHOULDER REMOVAL	SQ YD	351	351

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET 2	OF 6 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	5
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

COUNTY	JEFFERSON
ROUTE	FAP 724 (IL 37)
FUNDING	80% FED, 20% ST
LOCATION	URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
			SN 041-0031	CTC-0010
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	778	778
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50105220	PIPE CULVERT REMOVAL	FOOT	70	70
50200100	STRUCTURE EXCAVATION	CU YD	527	527
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	41	41
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	77	77
50300300	PROTECTIVE COAT	SQ YD	36	36
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	43,050	43,050
50800515	BAR SPLICERS	EACH	168	168
50900200	STEEL RAILING, TYPE 2399	FOOT	69	69
51500100	NAME PLATES	EACH	1	1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	535	535
54003000	CONCRETE BOX CULVERTS	CU YD	208.9	208.9
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1	1

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.S. RTE. 2826	SECTION 1B-2	COUNTY JEFFERSON	TOTAL SHEETS 40	SHEET NO. 6
			CONTRACT NO. 78684	
ILLINOIS FED. AID PROJECT				

COUNTY	JEFFERSON
ROUTE	FAP 724 (IL 37)
FUNDING	80% FED, 20% ST
LOCATION	URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
				SN 041-0031 CTC-0010
54214509	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 24"	EACH	2	2
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	165	165
60224005	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 8 GRATE	EACH	1	1
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	200.0	200.0
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	3	3
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3
63200310	GUARDRAIL REMOVAL	FOOT	688	688
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12
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
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10

* SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	7
				CONTRACT NO. 78684
ILLINOIS FED. AID PROJECT				

COUNTY	JEFFERSON
ROUTE	FAP 724 (IL 37)
FUNDING	80% FED, 20% ST
LOCATION	RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
			SN 041-0031	CTC-0010
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28
70300100	SHORT TERM PAVEMENT MARKING	FOOT	120	120
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	42	42
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	4,400	4,400
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	48	48
70400100	TEMPORARY CONCRETE BARRIER	FOOT	313	313
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	263	263
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), 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	2,576	2,576
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	13	13

* SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	8
			CONTRACT NO. 78684	
		ILLINOIS	FED. AID PROJECT	

COUNTY	JEFFERSON
ROUTE	FAP 724 (IL 37)
FUNDING	80% FED, 20% ST
LOCATION	RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
			SN 041-0031	CTC-0010
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	1,720	1,720
* 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1	1
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	165	165
* X6310088	TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)	EACH	1	1
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	1,564	1,564
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	18	18
* Z0054517	ROCK FILL - FOUNDATION	TON	137	137
Z0056631	STORM SEWER (WATER MAIN REQUIREMENTS) EQUIVALENT ROUND-SIZE 24 INCH	FOOT	137	137
Z0056657	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 36"	FOOT	10	10
Z0073400	TEMPORARY SUPPORT SYSTEM	EACH	1	1

* SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

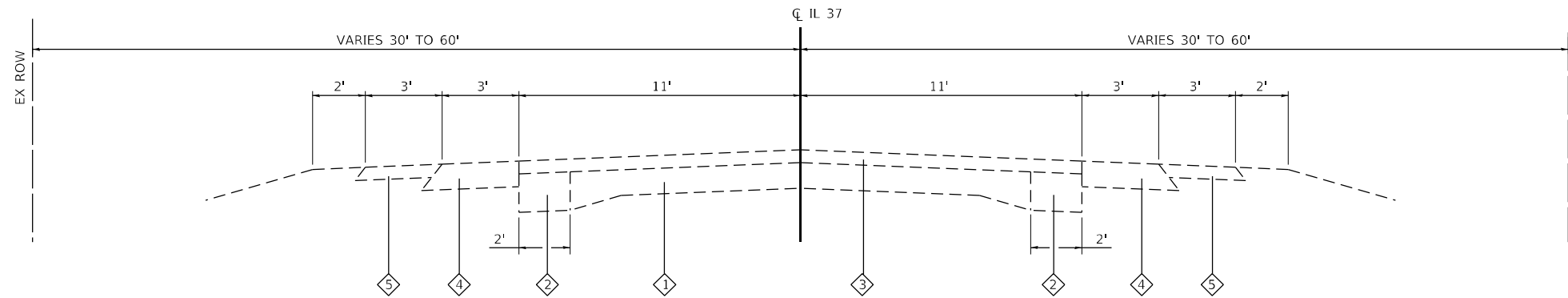
SUMMARY OF QUANTITIES

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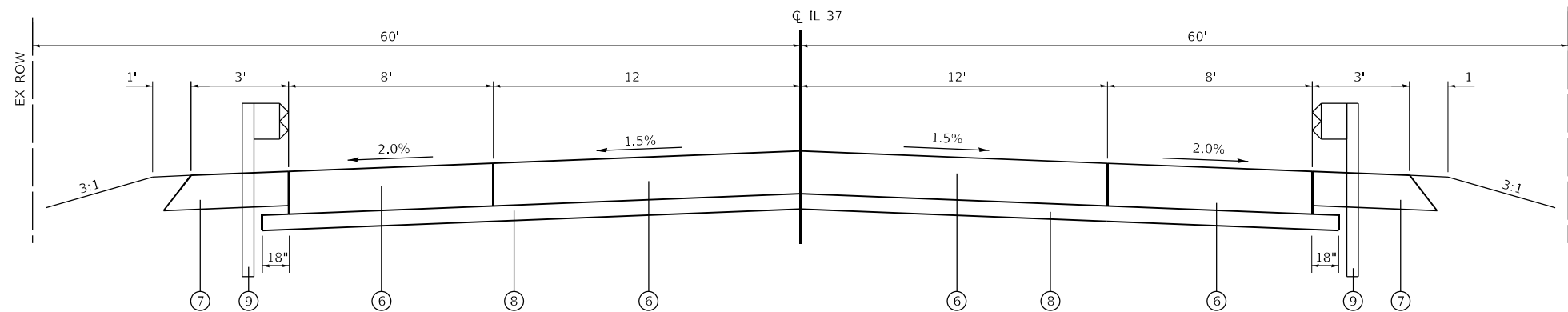
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2826	1B-2	JEFFERSON	40	9
			CONTRACT NO. 78684	
ILLINOIS FED. AID PROJECT				

TYPICAL SECTION LEGEND

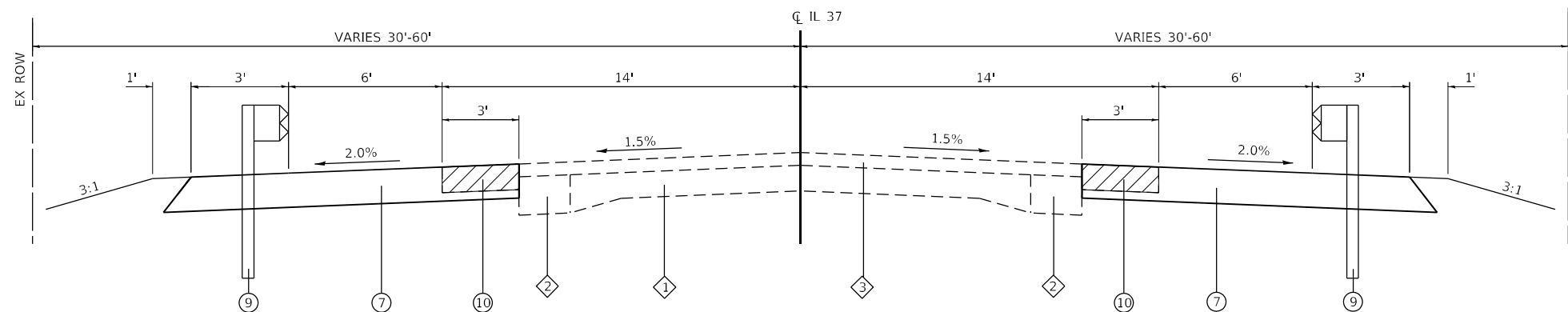
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|---|---------------------------------|---|---|
| ① | EXISTING 9-6-9 PCC PAVEMENT | ⑥ | PROPOSED PCC PAVEMENT, 10" (JOINTED) |
| ② | EXISTING PCC WIDENING, 9" | ⑦ | PROPOSED HMA SHOULDERS, 10" |
| ③ | EXISTING HMA SURFACE COURSE, 3" | ⑧ | PROPOSED SUBBASE GRANULAR MATERIAL, TYPE A 4" |
| ④ | EXISTING HMA SHOULDER, 8" | ⑨ | PROPOSED TYPE A GUARDRAIL |
| ⑤ | EXISTING AGGRREGATE SHOULDER | ⑩ | PROPOSED PAVED SHOULDER REMOVAL |



EXISTING TYPICAL SECTION
STA 82+00.0 TO STA 89+00.0



PROPOSED TYPICAL SECTION
STA 85+25.0 TO STA 86+00.0



PROPOSED TYPICAL SECTION
STA 83+49.4 TO STA 85+25.0
STA 86+00.0 TO STA 87+76.6

MODEL Path: \\... \Vernon\CADD\Microstation\CADD Drawings\078684-1B-2\typical.dgn



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PLOT SCALE = 40,0000 * / in.
PLOT DATE = 3/18/2021

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	10
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING SCHEDULE

STATION	STATION	OFFSET	TEMP PVT MK LINE 4 (NOTE 1) (FOOT)	PAINT PVT MK LINE 4 (FOOT)	PAVMT MRKG REM GRIND (SQ FT)	TEMP PAVT MKING REMOV (NOTE 1) (SQ FT)
82+29	87+30	RT				
82+38	88+84	CL	1288	1288	430	429
82+38	88+84	RT	644	644	430	215
82+38	88+84	LT	644	644	860	215
84+05	88+84	LT				
85+25	86+00	CL				
TOTAL			2,576	2,576	1,720	859

NOTE 1: QUANTITY INCLUDED WITHIN PAVEMENT MARKING SCHEDULE AND STAGING SCHEDULE

SEEDING SCHEDULE

STATION	STATION	OFFSET	SEEDING CL 2 (ACRE)	SEEDING CL 7 (ACRE)	NITROGEN FERT NUTR (POUND)	PHOSPHORUS FERT NUTR (POUND)	POTASSIUM FERT NUTR (POUND)	MULCH METHOD 2 (ACRE)
82+88	83+48	LT	0.03	0.03	3	3	3	0.03
83+66	84+85	LT	0.05	0.05	5	5	5	0.05
85+13	85+46	LT	0.02	0.02	2	2	2	0.02
85+82	88+37	LT	0.05	0.05	5	5	5	0.05
83+40	85+46	RT	0.05	0.05	5	5	5	0.05
85+82	87+71	RT	0.05	0.05	5	5	5	0.05
TOTAL			0.25	0.25	25	25	25	0.25

EROSION CONTROL SCHEDULE

STATION	STATION	OFFSET	EROSION CONTROL BLANKET (SQ YD)	TEMP EROS CONTR SEED (POUND)	TEMP DITCH CHECKS (FOOT)	PERIMETER EROS BAR (FOOT)	INLET & PIPE PROTECTION (EACH)	STONE RIPRAP CL A3 (SQ YD)	STONE RIPRAP CL A5 (SQ YD)	FILTER FABRIC (SQ YD)
82+88	83+48	LT		6						
83+39	85+37	RT				202				
83+40	85+46	RT		10						
84+00		LT					1			
83+66	84+85	LT		10						
83+74	84+00	LT			11			22		22
84+29	84+85	LT	70							
85+13	85+46	LT		4						
85+36	85+92	LT							181	181
85+36	85+92	RT							122	122
85+82	88+37	LT		10						
85+82	87+71	RT		10						
85+90	87+14	RT				127				
85+91	88+38	LT				253				
TOTAL			70	50	11	582	1	22	303	325

PAVEMENT SCHEDULE

STATION	STATION	OFFSET	SUB GRAN MAT A 4 (SQ YD)	HMA BC WID 10 (NOTE 1) (SQ YD)	BIT MATLS TACK CT (POUND)	WELDED WIRE REINF (SQ YD)	PCC PVT 10 JOINTED (SQ YD)	PROTECTIVE COAT (SQ YD)	PAVEMENT REM (SQ YD)	PAVED SHLD REMOVAL (SQ YD)	HMA SHOULDERS 10 (SQ YD)
83+49	85+49	RT			119					70	237
83+76	85+49	LT			81					56	162
84+20	87+06	LT		227						117	
85+25	86+00	CL	359			334	334	334	242		
85+79	87+04	RT			70					40	140
85+79	87+77	LT			120					68	239
TOTAL			359	227	390	334	334	334	242	351	778

NOTE 1: TEMPORARY SHOULDER WIDENING FOR STAGE 1.

GUARDRAIL SCHEDULE

STATION	STATION	OFFSET	SPBGR TY A 6FT POSTS (FOOT)	TRAF BAR TERM T2 (EACH)	TRAF BAR TERM T6A (EACH)	TR BAR TRM T1 SPL TAN (EACH)	GUARDRAIL REMOV (FOOT)	TERMINAL MARKER DA (EACH)	GRDRAIL REF TYPE A (EACH)	TRAF BAR TERM T6A SPL (EACH)
83+32	87+30	RT					385			
83+74	85+49	RT	87.5		1	1		1	3	
85+14	85+49	LT	12.5	1				1	3	1
85+14	88+04	LT				303				
85+79	86+79	RT	12.5		1	1		1	3	
85+79	87+54	LT	87.5		1	1		1	4	
TOTAL			200.0	1	3	3	688	4	13	1

STORM SEWER SCHEDULE

STATION	OFFSET	STATION	OFFSET	TRENCH BACKFILL (CU YD)	PIPE CULVERT REMOV (FOOT)	PRC FL END SEC 36 (EACH)	PRC FL END END S EQRS 24 (EACH)	MAN TA 6 DIA T8G (EACH)	SS WM REQ EQRS 24 (FOOT)	SS 1 WAT MN 36 (FOOT)
84+00	LT	84+73	LT	2			1	1	73	
84+73	LT	85+34	LT	12	60		1		64	
85+89	LT	85+99	LT		10	1				10
TOTAL				14	70	1	2	1	137	10

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULES
SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	11
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

STAGING SCHEDULE

STATION	STATION	OFFSET	TEMP BR TRAF SIG (EACH)	TEMP RUMBLE STRIPS (EACH)	SHORT TERM PAVT MKING (FOOT)	SHRT TRM PAVT MK REM (SQ FT)	TEMP PVT MK LINE 4 (NOTE 1) (FOOT)	TEMP PVT MK LINE 24 (FOOT)	TEMP CONC BARRIER (FOOT)	REL TEMP CONC BARRIER (FOOT)	IMP ATTN TEMP NRD TL 3 (EACH)	IMP ATTN REL NRD TL3 (EACH)	UNINTER POWER SUP EXT (EACH)	TEMP PAVT MKING REMOV (NOTE 1) (SQ FT)	PIN TEMP CONC BARRIER (EACH)
STAGE 1															
82+40	88+84	LT/RT		6	120	42	884	24					1	343	
84+08	87+33	LT/RT							313						
84+08		LT/RT									1				
84+95	86+33	LT/RT	1												18
87+20		LT/RT									1				
STAGE 2															
82+40	88+84	LT/RT					940	24						362	
84+08	87+33	LT/RT							263						
84+08		LT/RT									1				
87+20		LT/RT									1				
TOTAL			1	6	120	42	1824	48	313	263	2	2	1	705	18

NOTE 1: QUANTITY INCLUDED WITHIN PAVEMENT MARKING SCHEDULE AND STAGING SCHEDULE

ENTRANCE SCHEDULE

STATION	OFFSET	ENTRANCE TYPE	ENTRANCE WIDTH "W" (FOOT)	ENTRANCE DEPTH "D" (FOOT)	SURFACE TYPE	AGG SURF CSE A 6 (SQ YD)	DRIVE PAVEMENT REM (SQ YD)
84+17	LT	CE	24	21	AGG	47	
85+00	LT	CE	28	17	AGG	55	77
TOTAL						102	77

EARTHWORK SCHEDULE

LOCATION			EARTH EXCAVATION CU YD	AVERAGE SHRINKAGE FACTOR %	EARTH EXCAVATION (ADJUSTED) CU YD	EMBANKMENT CU YD	EARTHWORK BALANCE		FURNISHED EXCAVATION CU YD	REMARKS
STA.	TO	STA.					EXCAVATION REQUIRED TO COMPLETE CU YD	EXCESS EXCAVATION CU YD		
83+50		85+25	72	18%	59	57	-2			
86+00		87+75	33	18%	27	89	62			
TOTALS			105							

CHANNEL EXCAVATION SCHEDULE

STATION	STATION	OFFSET	CHANNEL EXCAVATION (CU YD)
85+25	86+00	LT/RT	338
TOTAL			338

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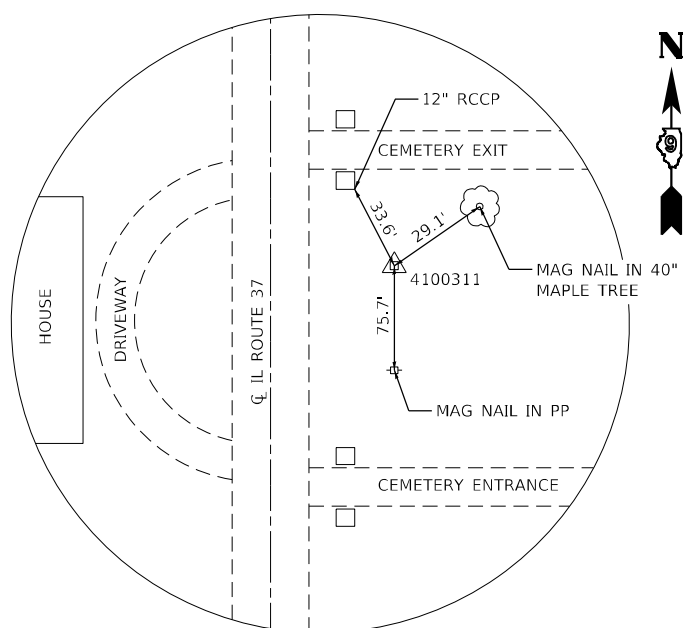
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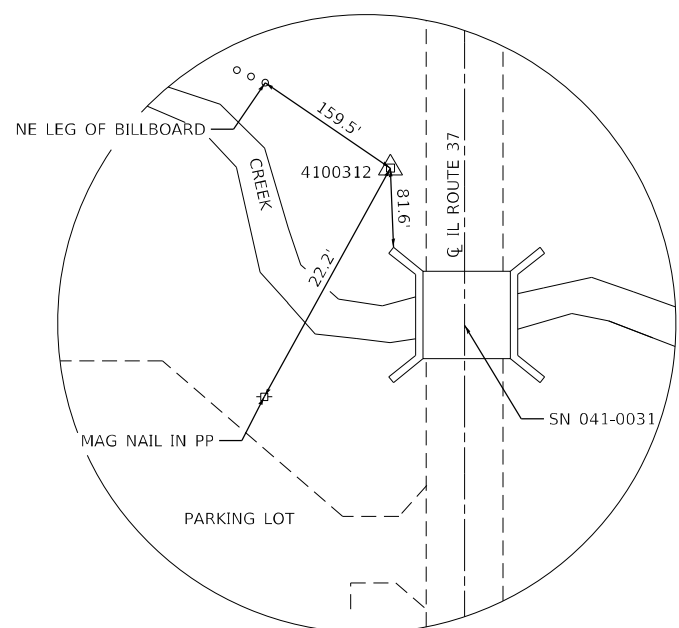
SCHEDULES

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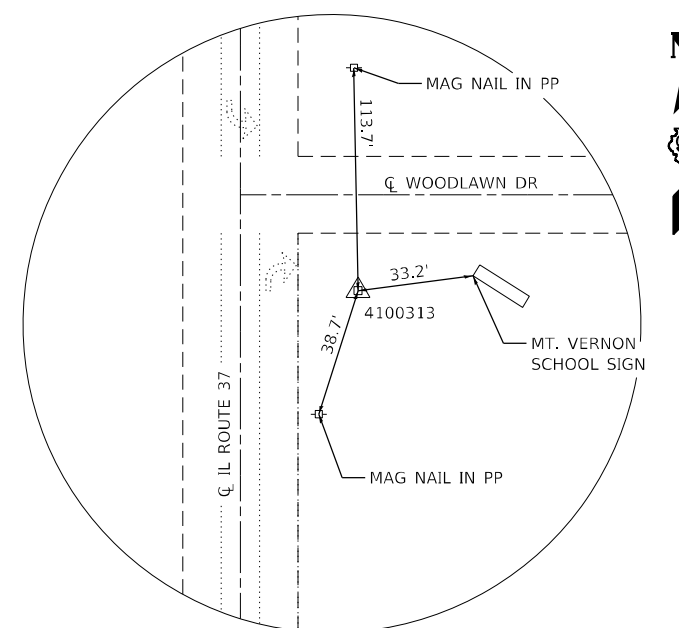
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CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				



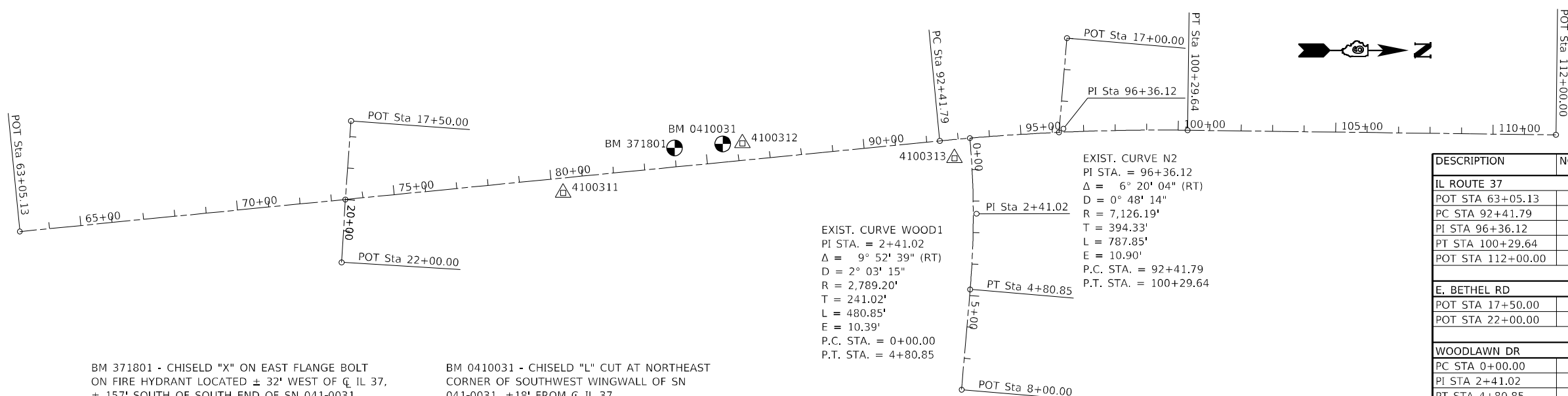
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IP CAP AND SET
STA. 92+72.64
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BM 371801 - CHISELD "X" ON EAST FLANGE BOLT ON FIRE HYDRANT LOCATED ± 32' WEST OF C_l IL 37, ± 157' SOUTH OF SOUTH END OF SN 041-0031
ELEV: 441.40

BM 0410031 - CHISELD "L" CUT AT NORTHEAST CORNER OF SOUTHWEST WINGWALL OF SN 041-0031, ±18' FROM C_l IL 37
ELEV: 437.16

EXIST. CURVE WOOD1
PI STA. = 2+41.02
 $\Delta = 9^\circ 52' 39''$ (RT)
D = 2° 03' 15"
R = 2,789.20'
T = 241.02'
L = 480.85'
E = 10.39'
P.C. STA. = 0+00.00
P.T. STA. = 4+80.85

EXIST. CURVE N2
PI STA. = 96+36.12
 $\Delta = 6^\circ 20' 04''$ (RT)
D = 0° 48' 14"
R = 7,126.19'
T = 394.33'
L = 787.85'
E = 10.90'
P.C. STA. = 92+41.79
P.T. STA. = 100+29.64

DESCRIPTION	NORTHING	EASTING
IL ROUTE 37		
POT STA 63+05.13	587,010.20	821,008.78
PC STA 92+41.79	589,932.73	820,721.05
PI STA 96+36.12	590,325.16	820,682.41
PT STA 100+29.64	590,719.46	820,687.31
POT STA 112+00.00	591,889.72	820,701.85
E. BETHEL RD		
POT STA 17+50.00	588,062.41	820,657.61
POT STA 22+00.00	588,032.37	821,106.60
WOODLAWN DR		
PC STA 0+00.00	590,028.06	820,712.31
PI STA 2+41.02	590,049.18	820,952.40
PT STA 4+80.85	590,028.80	821,192.56
POT STA 8+00.00	590,001.81	821,510.57
SOUTHGATE DR		
POT STA 17+00.00	590,336.52	820,395.03
POT STA 20+00.00	590,311.06	820,693.94

USER NAME	DESIGNED	REVISED
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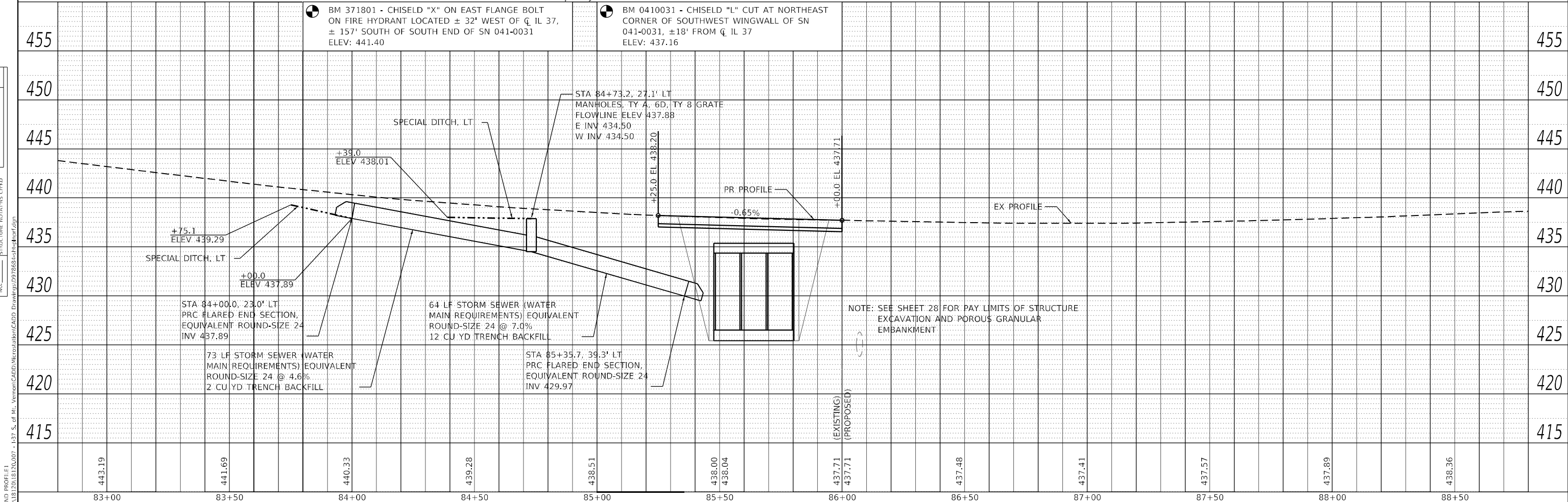
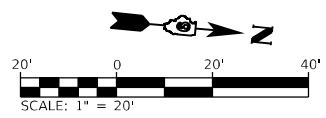
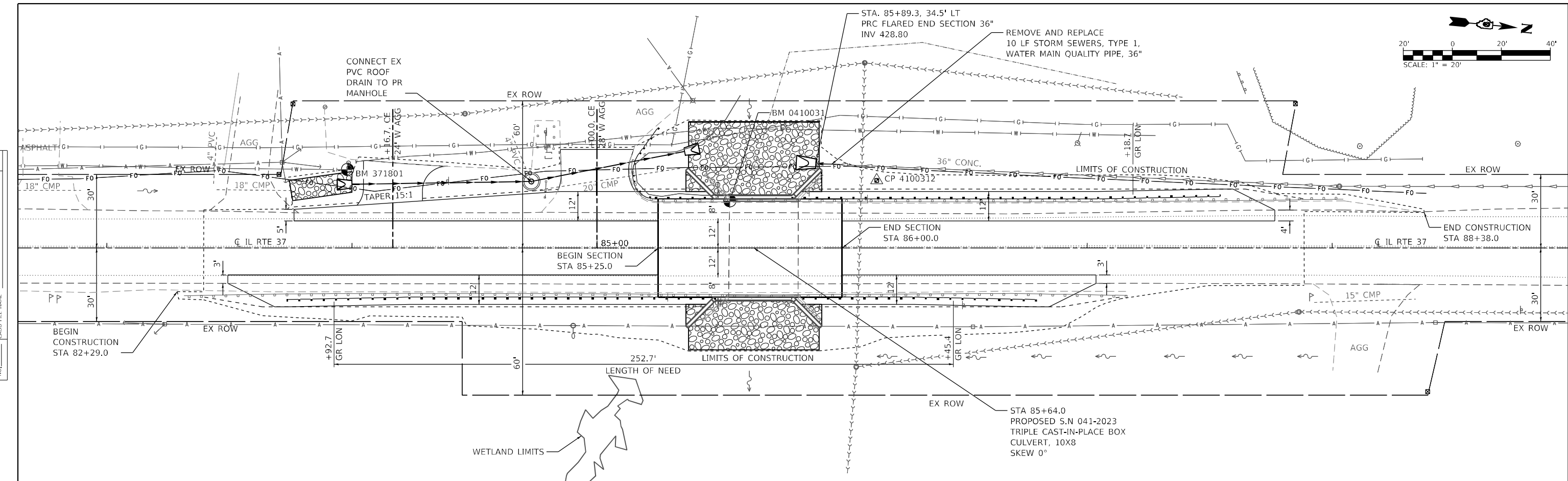
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT TIES AND BENCHMARKS			
SCALE: NTS	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	13
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

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	STRUCTURE
	NOTATION
	REVISED
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DATE	
BY	
PROFILE	SURVEYED
	NOTED
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	ALIGNED
	GRADES
	STRUCTURE
	NOTATION
	REVISED
	NO.



83+00	83+50	84+00	84+50	85+00	85+50	86+00	86+50	87+00	87+50	88+00	88+50
443.19	441.69	440.33	439.28	438.51	438.00 438.04	437.71 437.71	437.48	437.41	437.57	437.89	438.36

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN AND PROFILE SHEET

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 82+88.0 TO STA. 88+38.0

F.A.S. RTE. 2826	SECTION 1B-2	COUNTY JEFFERSON	TOTAL SHEETS 40	SHEET NO. 14
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

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STAGE CONTRUCTION GENERAL NOTES

1. SET UP TRAFFIC CONTROL ACCORDING TO IDOT HIGHWAY STANDARD 701201.
2. ONE LANE OF TRAFFIC ON IL 37 SHALL BE MAINTAINED AT ALL TIMES.
3. EMERGENCY ACCESS SHALL BE PROVIDED AT ALL TIMES.

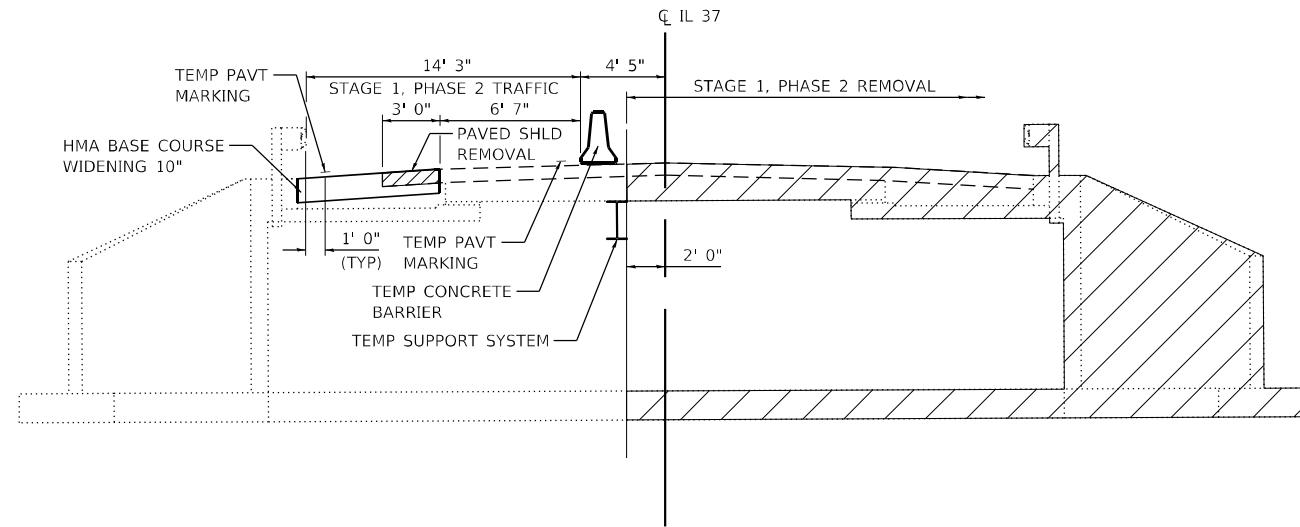
SUGGESTED STAGE 1 CONSTRUCTION

PHASE 1

1. UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701201. CONSTRUCT TEMPORARY HMA BASE COURSE WIDENING ON THE LEFT SIDE OF ROADWAY FROM STA. 84+04.7 TO STA. 87+23.8.
2. PLACE TEMPORARY TRAFFIC CONTROL AS SHOWN ON THE NEXT SHEET.
3. INSTALL TEMPORARY TRAFFIC SIGNALS PRIOR TO CLOSING THE LEFT HALF OF ROADWAY, SEE "TRAFFIC CONTROL NOTES" FOR MORE DETAILS.

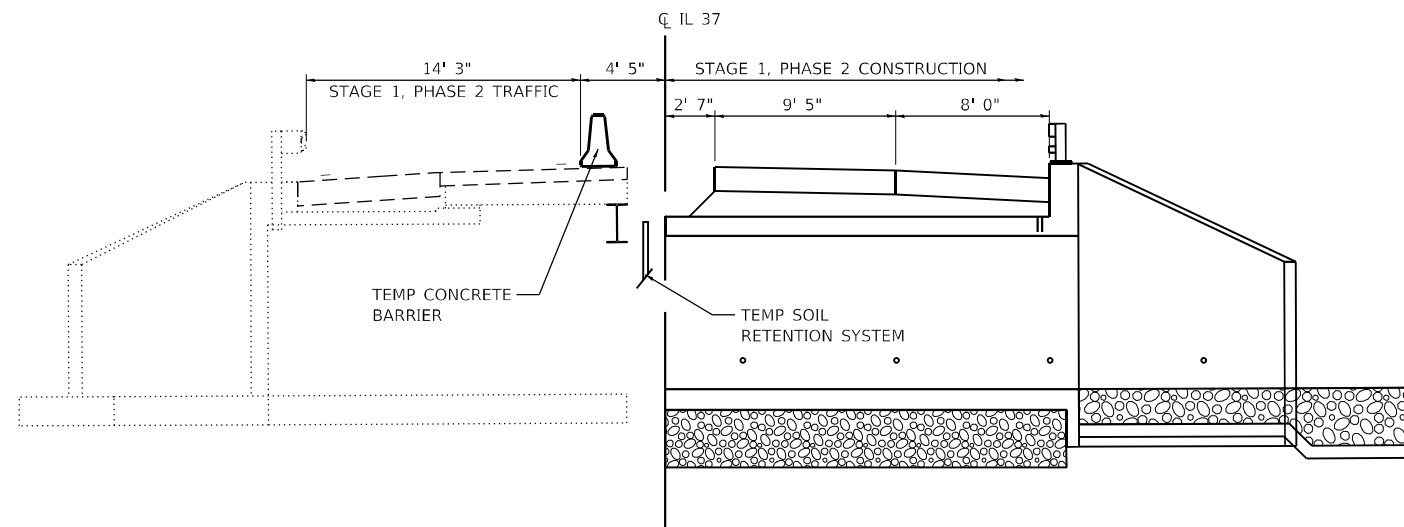
PHASE 2

1. UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. DIRECT TRAFFIC TO THE LEFT LANE OF IL 37.
2. CONSTRUCT TEMPORARY SOIL RETENTION SYSTEM AT THE NORTH AND SOUTH SIDE OF EXISTING STRUCTURE AND REMOVE RIGHT SIDE OF EXISTING STRUCTURE.
3. CONSTRUCT THE RIGHT SIDE OF TRIPLE BOX CULVERT, EMBANKMENT, AND ROADWAY.
4. INSTALL GUARDRAIL AND EROSION CONTROL ON RIGHT SIDE OF IL 37 AND COMPLETE DRAINAGE AND GRADING IMPROVEMENTS.



STAGE 1 BRIDGE REMOVAL TYPICAL SECTION

(LOOKING NORTH AT STRUCTURE)
FOR INFORMATION ONLY



STAGE 1 CULVERT CONSTRUCTION TYPICAL SECTION

(LOOKING NORTH AT STRUCTURE)
FOR INFORMATION ONLY

TRAFFIC CONTROL NOTES

1. THREE PHASE SIGNAL OPERATION IS REQUIRED WHEN HWY STD 701321 IS IN EFFECT. THE ENGINEER OF TRAFFIC SHALL APPROVE ALL TIMING PARAMETERS.
2. THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO ALL MUTCD REQUIREMENTS.
3. THE CONTRACTOR SHALL USE MICROWAVE DETECTION FOR USE WITH THE TEMPORARY TRAFFIC SIGNALS IN ACCORDANCE WITH HWY STD 701321. THE CONTRACTOR MAY ELECT TO UTILIZE DETECTOR LOOPS.
4. REMOVAL OF DETECTOR LOOPS AND RUMBLE STRIPS AFTER STAGED CONSTRUCTION SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER. ANY DAMAGE TO THE EXISTING PAVEMENT FROM THE RUMBLE STRIPS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THERE WILL BE NO ADDITIONAL COMPENSATION.
5. ALL TEMPORARY PAVEMENT MARKINGS, DRUMS, ETC. SHALL BE PLACED PRIOR TO PLACING TEMPORARY CONCRETE BARRIERS.

ADDITIONAL NOTES

1. THE PERMANENT GUARDRAIL SHALL BE INSTALLED AT THE PROPER HEIGHT REQUIREMENTS LISTED ON HWY STD 630001 AFTER SURFACE COURSE HAS BEEN PLACED.

MODEL SHEET 1
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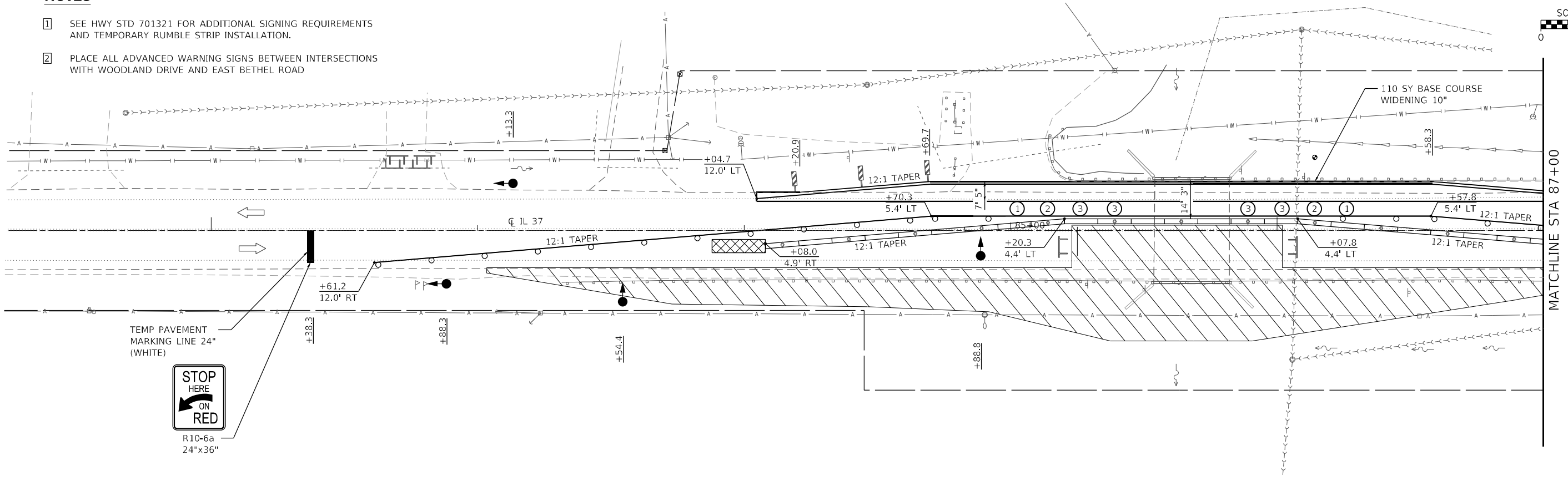
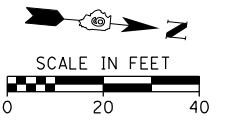
STAGE 1 TYPICAL SECTIONS AND STAGING NOTES TRAFFIC CONTROL PLANS

SCALE: NTS SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	15
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

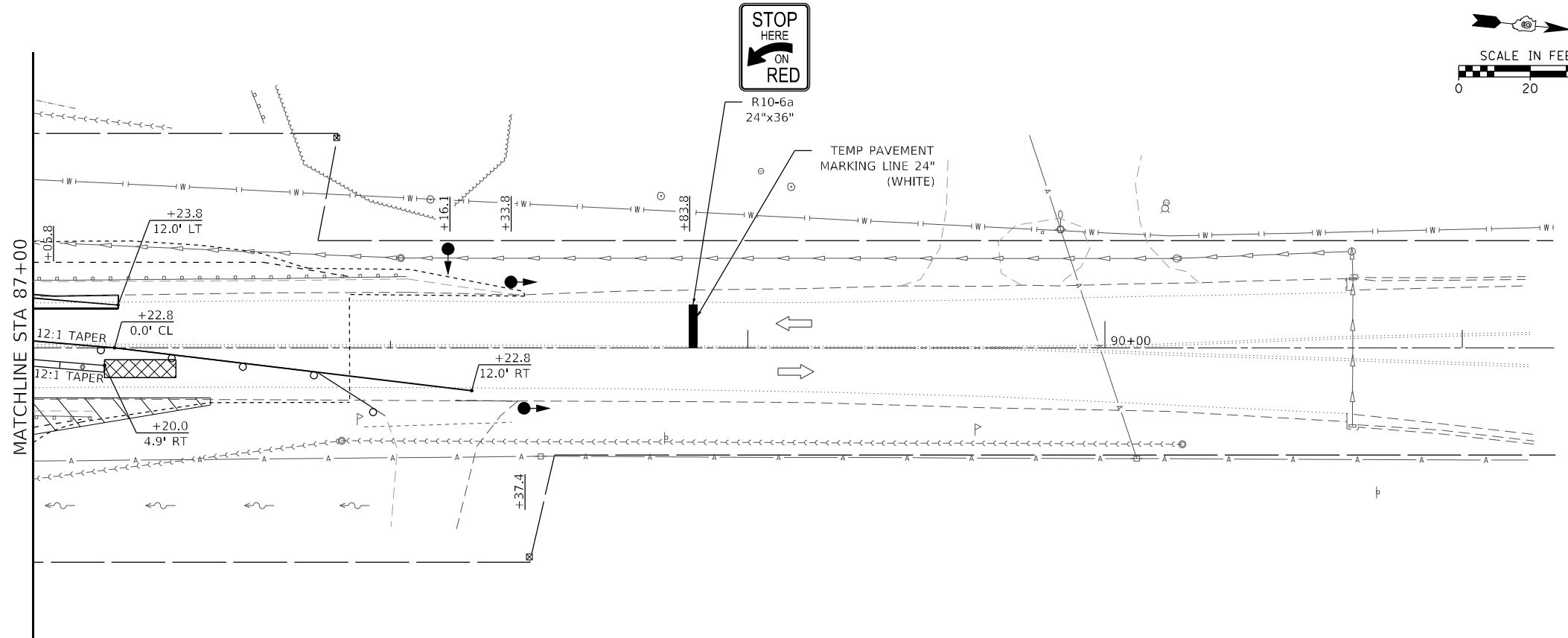
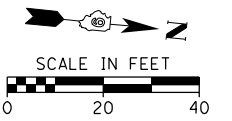
NOTES

- 1 SEE HWY STD 701321 FOR ADDITIONAL SIGNING REQUIREMENTS AND TEMPORARY RUMBLE STRIP INSTALLATION.
- 2 PLACE ALL ADVANCED WARNING SIGNS BETWEEN INTERSECTIONS WITH WOODLAND DRIVE AND EAST BETHEL ROAD



TRAFFIC CONTROL LEGEND

- ⊕ PINNING OF TEMPORARY CONCRETE BARRIER
- TEMPORARY TRAFFIC SIGNAL
- DRUM WITH STEADY BURNING LIGHT
- ▨ IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- ▩ WORK AREA
- ▬ VERTICAL PANEL
- ◇ TYPE C BI-DIRECTIONAL REFLECTOR
- ⊥ TYPE III BARRICADE WITH FLASHING LIGHTS
- ▭ TEMPORARY CONCRETE BARRIER



MODEL SHEET 2
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 1 PLAN VIEW
TRAFFIC CONTROL PLANS**

SCALE: 1"=20' SHEET 2 OF 4 SHEETS STA. 81+22 TO STA. 91+26

F.A.S. RTE. 2826	SECTION 1B-2	COUNTY JEFFERSON	TOTAL SHEETS 40	SHEET NO. 16
CONTRACT NO. 78684			ILLINOIS FED. AID PROJECT	

STAGE CONTRUCTION GENERAL NOTES

1. SET UP TRAFFIC CONTROL ACCORDING TO IDOT HIGHWAY STANDARD 701201.
2. ONE LANE OF TRAFFIC ON IL 37 SHALL BE MAINTAINED AT ALL TIMES.
3. EMERGENCY ACCESS SHALL BE PROVIDED AT ALL TIMES.

SUGGESTED STAGE 2 CONSTRUCTION

PHASE 1

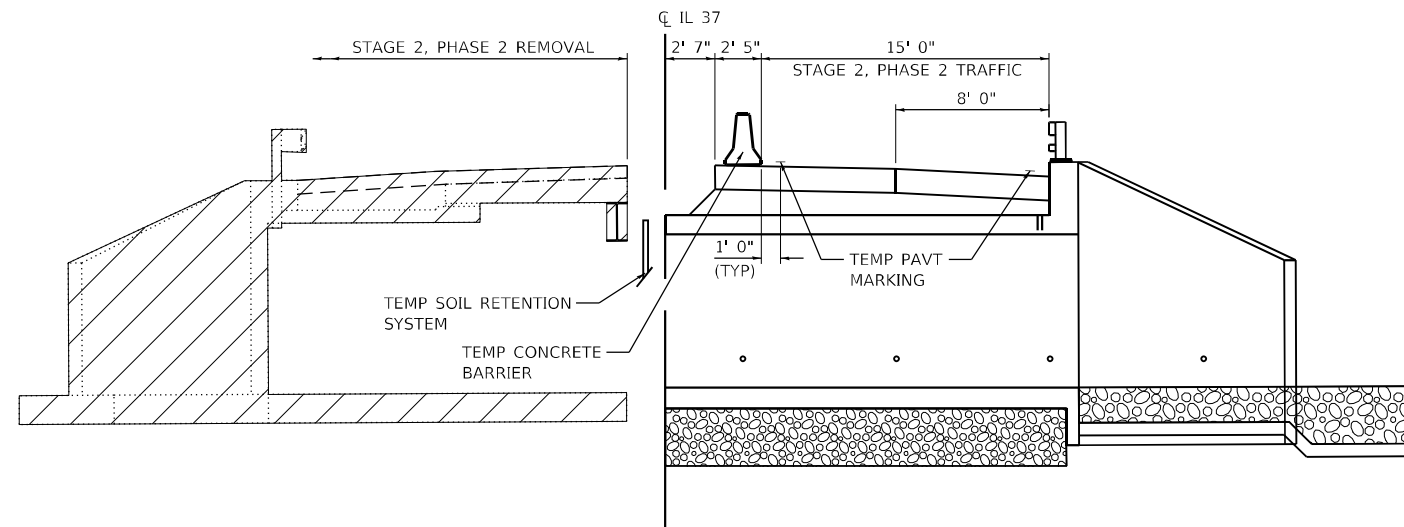
1. UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 AND 701321. CONSTRUCT TEMPORARY ENTRANCE AND STORM SEWER AT STA. 84+17 LT.
2. PLACE TEMPORARY TRAFFIC CONTROL AS SHOWN ON THE NEXT SHEET.

PHASE 2

1. UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. DIRECT TRAFFIC TO THE RIGHT LANE OF IL 37.
2. REMOVE THE LEFT SIDE OF EXISTING STRUCTURE.
3. CONSTRUCT THE LEFT SIDE OF TRIPLE BOX CULVERT, EMBANKMENT, AND ROADWAY.
4. INSTALL GUARDRAIL AND EROSION CONTROL ON THE LEFT SIDE OF IL 37 AND COMPLETE DRAINAGE AND GRADING IMPROVEMENTS.

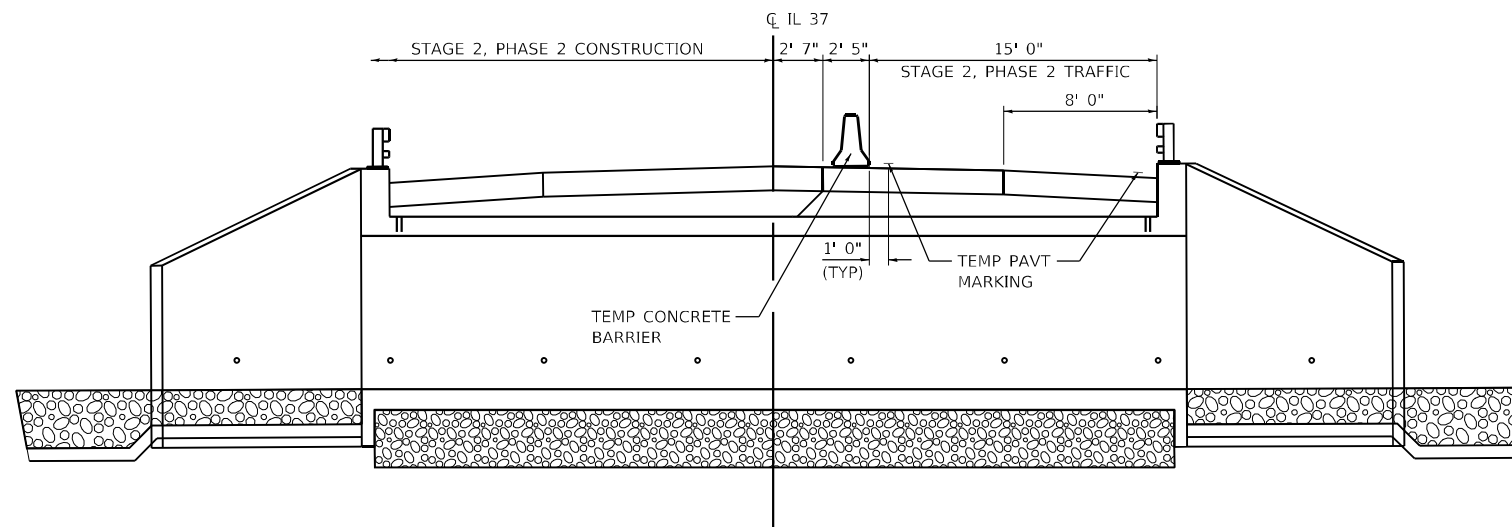
PHASE 3

1. UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701306. INSTALL PERMANENT PAVEMENT MARKINGS, REMOVE CONCRETE BARRIERS AND TRAFFIC CONTROL FEATURES FOR HIGHWAY STANDARD 701321.



STAGE 2 BRIDGE REMOVAL TYPICAL SECTION

(LOOKING NORTH AT STRUCTURE)
FOR INFORMATION ONLY



STAGE 2 CULVERT CONSTRUCTION TYPICAL SECTION

(LOOKING NORTH AT STRUCTURE)
FOR INFORMATION ONLY

TRAFFIC CONTROL NOTES

1. THREE PHASE SIGNAL OPERATION IS REQUIRED WHEN HWY STD 701321 IS IN EFFECT. THE ENGINEER OF TRAFFIC SHALL APPROVE ALL TIMING PARAMETERS.
2. THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO ALL MUTCD REQUIREMENTS.
3. THE CONTRACTOR SHALL USE MICROWAVE DETECTION FOR USE WITH THE TEMPORARY TRAFFIC SIGNALS IN ACCORANCE WITH HWY STD 701321. THE CONTRACTOR MAY ELECT TO UTILIZE DETECTOR LOOPS.
4. REMOVAL OF DETECTOR LOOPS AND RUMBLE STRIPS AFTER STAGED CONSTRUCTION SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER. ANY DAMAGE TO THE EXISTING PAVEMENT FROM THE RUMBLE STRIPS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THERE WILL BE NO ADDITIONAL COMPENSATION.
5. ALL TEMPORARY PAVEMENT MARKINGS, DRUMS, ETC. SHALL BE PLACED PRIOR TO PLACING TEMPORARY CONCRETE BARRIERS.

ADDITIONAL NOTES

1. THE PERMANENT GUARDRAIL SHALL BE INSTALLED AT THE PROPER HEIGHT REQUIREMENTS LISTED ON HWY STD 630001 AFTER SURFACE COURSE HAS BEEN PLACED.

MODEL SHEET 3
FILE NAME: I:\181201\181201007 - I37 - S. of Mt. Vernon\CADD\Microstation\CADD Drawings\078684-181201-03.dgn



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PLOT DATE = 3/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

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CHECKED -	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

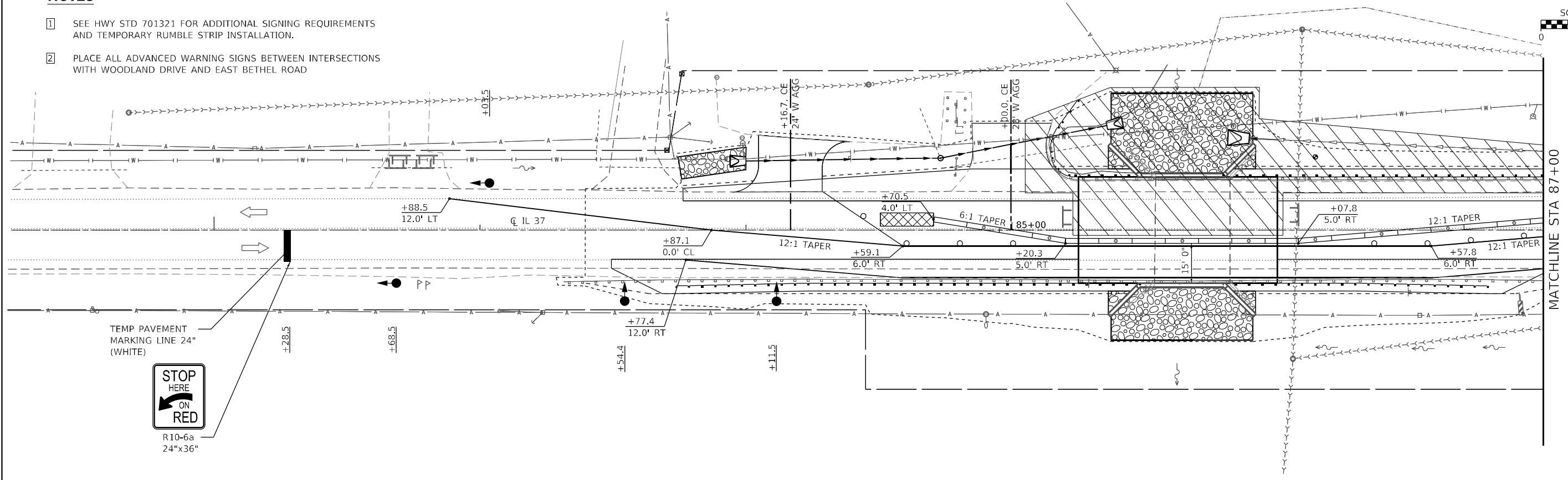
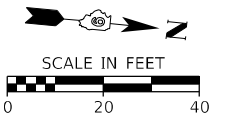
STAGE 2 TYPICAL SECTIONS AND STAGING NOTES TRAFFIC CONTROL PLANS

SCALE: NTS SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	17
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

NOTES

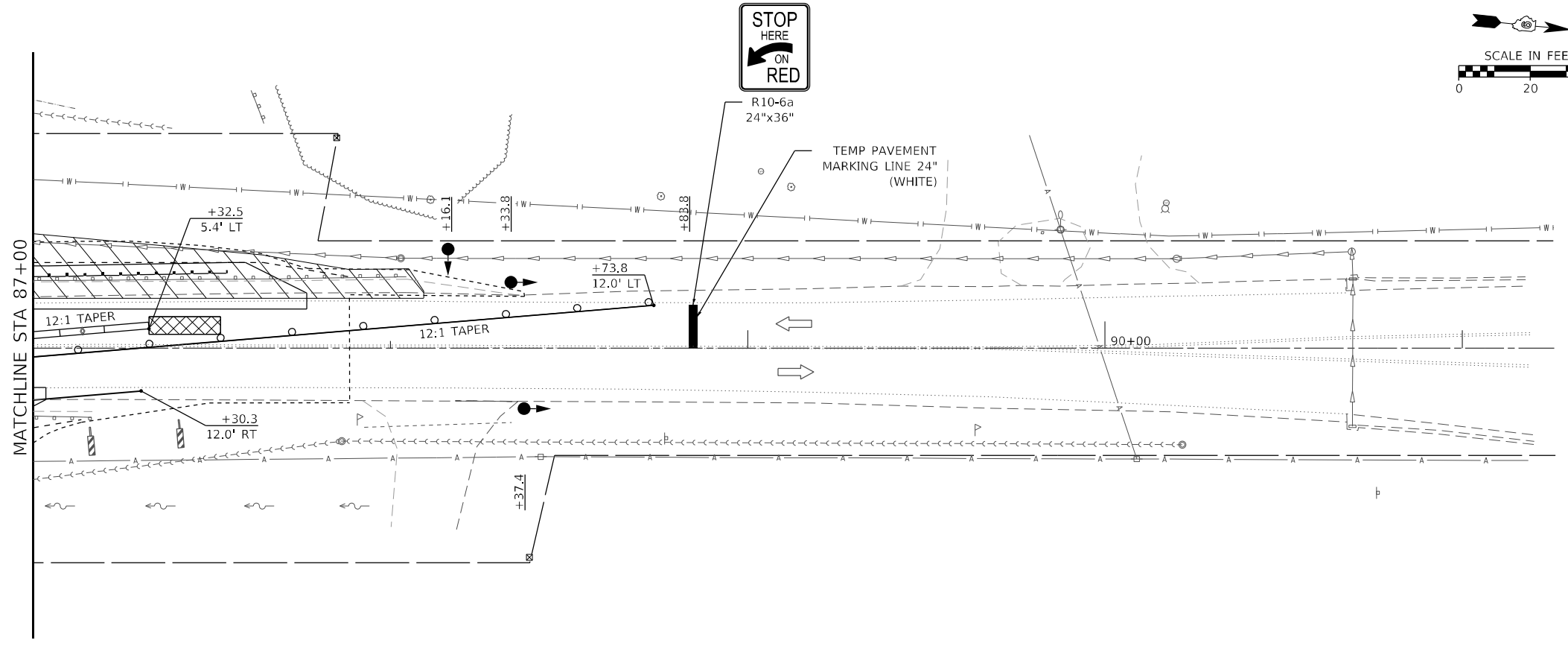
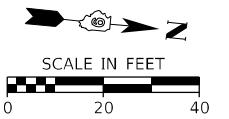
- 1 SEE HWY STD 701321 FOR ADDITIONAL SIGNING REQUIREMENTS AND TEMPORARY RUMBLE STRIP INSTALLATION.
- 2 PLACE ALL ADVANCED WARNING SIGNS BETWEEN INTERSECTIONS WITH WOODLAND DRIVE AND EAST BETHEL ROAD



MATCHLINE STA 87+00

TRAFFIC CONTROL LEGEND

- TEMPORARY TRAFFIC SIGNAL
- DRUM WITH STEADY BURNING LIGHT
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- WORK AREA
- VERTICAL PANEL
- TYPE C BI-DIRECTIONAL REFLECTOR
- TYPE III BARRICADE WITH FLASHING LIGHTS
- TEMPORARY CONCRETE BARRIER



MATCHLINE STA 87+00

MODEL SHEET 4
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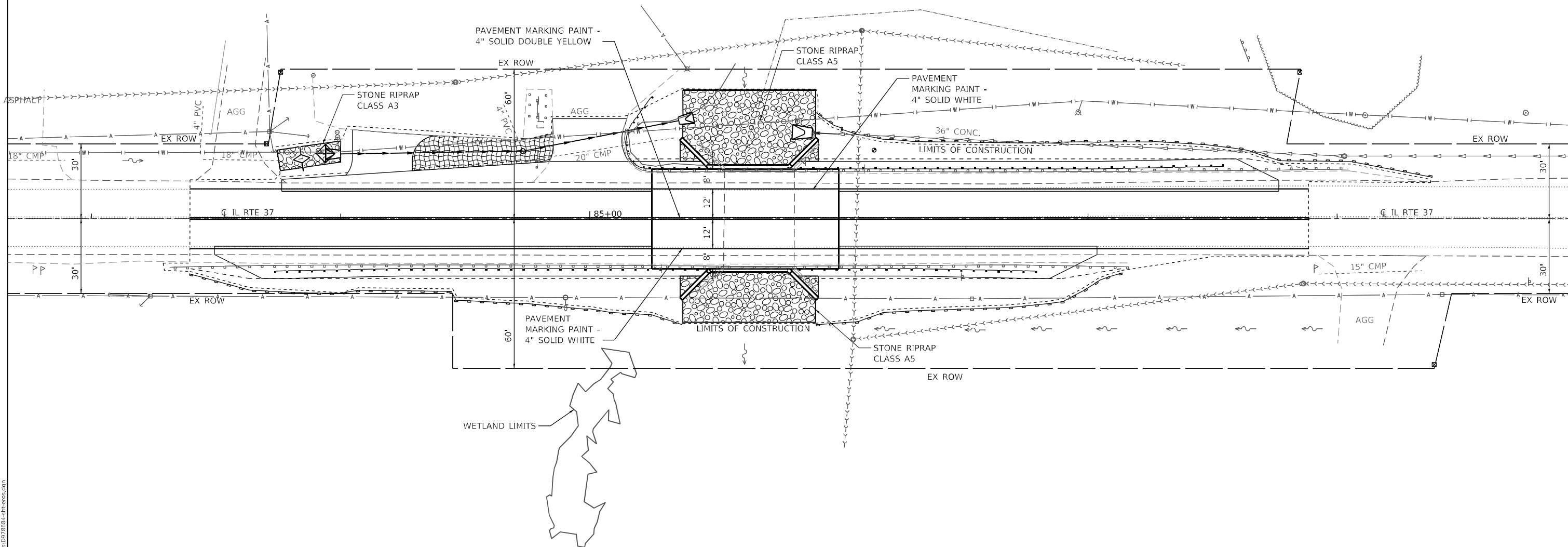
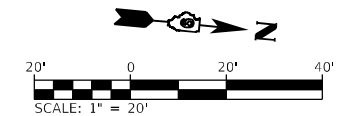
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PLOT DATE = 3/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE 2 PLAN VIEW
TRAFFIC CONTROL PLANS**

SCALE: 1" = 20' SHEET 4 OF 4 SHEETS STA. 81+22 TO STA. 91+26

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	18
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				



NOTE: STRIPING TO MATCH LIMITS IN SCHEDULE

EROSION CONTROL LEGEND

- EROSION CONTROL PERIMETER BARRIER
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET

MODEL PLAN AND PROFILE
FILE NAME: I:\18120181200007 - 137 S. of Mt. Vernon\CADD\Information\CADD Drawings\0978684-1-1-ecps.dgn



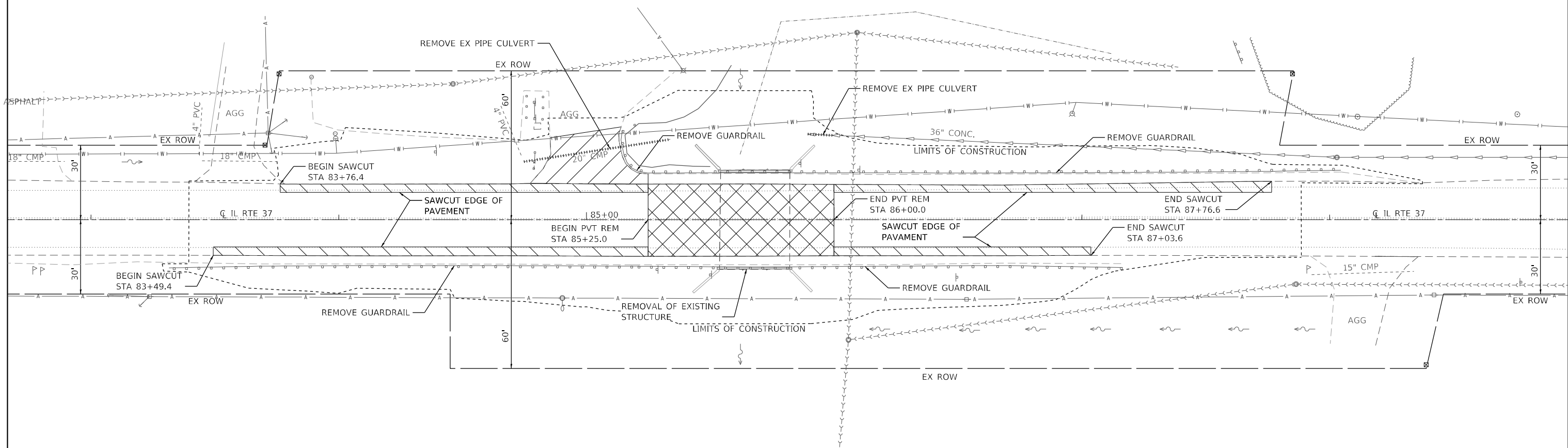
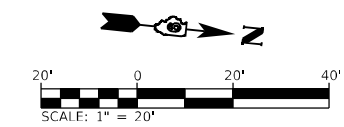
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**





EROSION CONTROL AND PAVEMENT MARKING

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 82+88.0 TO STA. 88+38.0

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	19
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				



REMOVALS LEGEND

-  PAVEMENT REMOVAL
-  DRIVEWAY PAVEMENT REMOVAL
-  PAVED SHOULDER REMOVAL
-  PIPE CULVERT REMOVAL

MODEL PLAN AND PROFILE
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 ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115



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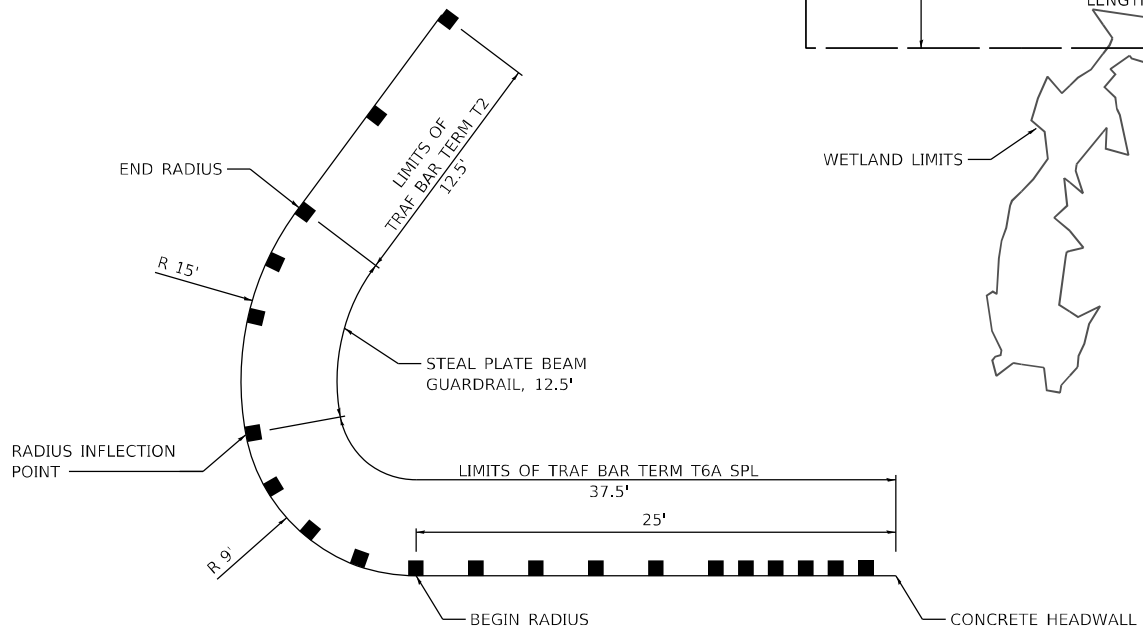
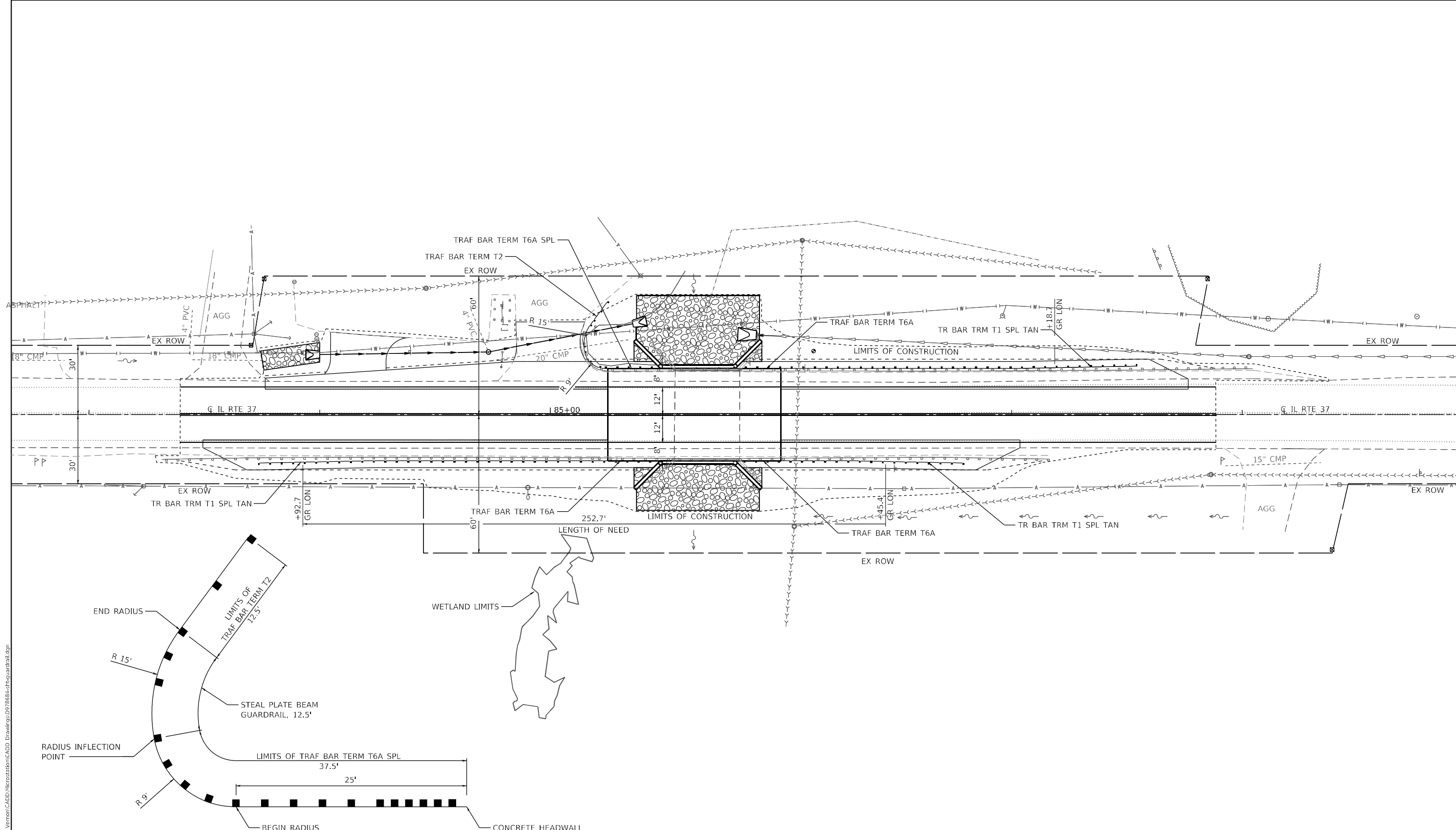
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL SHEET

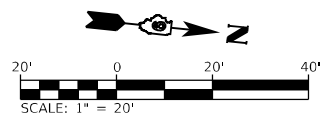
SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 82+88.0 TO STA. 88+38.0

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	20
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

MODEL PLAN AND PROFILE
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SW QUADRANT GUARDRAIL LAYOUT
 (NOT TO SCALE)



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DATE -	REVISED -

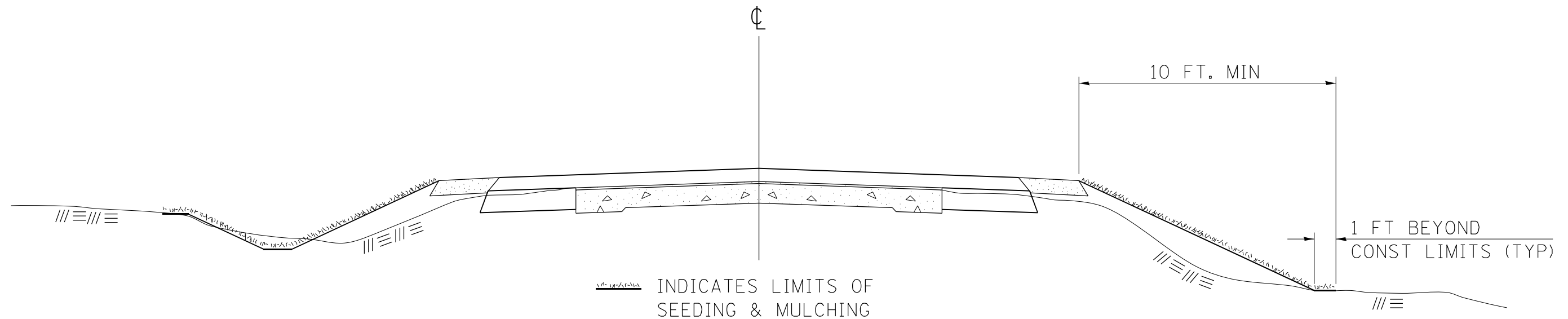
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GUARDRAIL PLAN SHEET

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 82+88.0 TO STA. 88+38.0

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	21
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

ON DETOUR ROADS, SLOPES SHALL BE SEEDED IMMEDIATELY UPON COMPLETION OF ANY GIVEN STAGE GRADING. TEMPORARY SEEDING SHALL BE CLASS 7.

FERTILIZER NUTRIENTS SHALL BE APPLIED TO ALL SEEDED AREAS. LIMESTONE SHALL BE APPLIED TO ALL AREAS OF FINAL SEEDING.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR ROAD AND BRIDGE CONSTRUCTION.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

REVISIONS

REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08
REVISED	5-16-13

STD. 9-12

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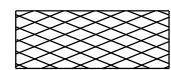
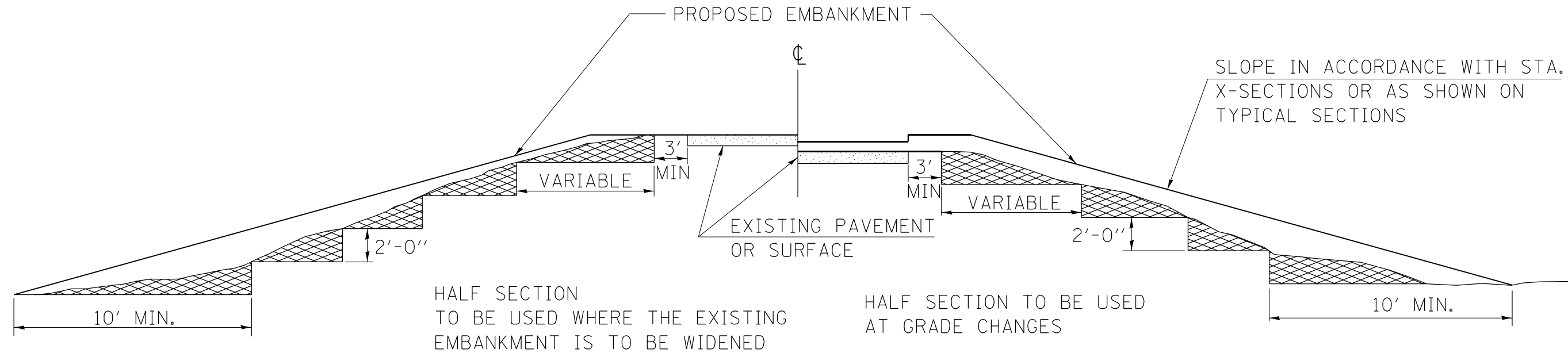
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CONSTRUCTION DETAILS

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.S. RTE. 2826	SECTION 1B-2	COUNTY JEFFERSON	TOTAL SHEETS 40	SHEET NO. 22
				CONTRACT NO. 78684
ILLINOIS FED. AID PROJECT				

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
CHECKED	6-3-99
RESIZED	5-7-08
REVIEWED	5-17-13

STD. 9-16

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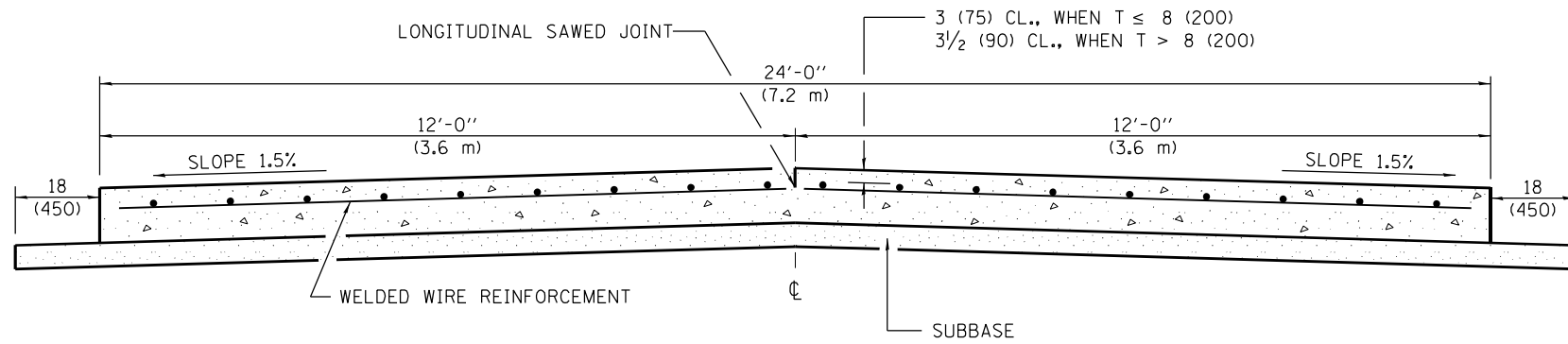
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CONSTRUCTION DETAILS

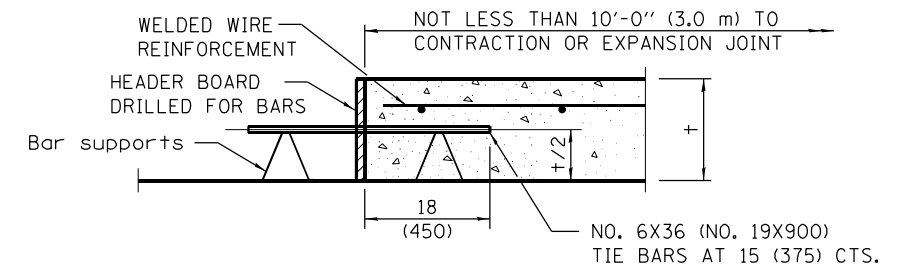
SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	23
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

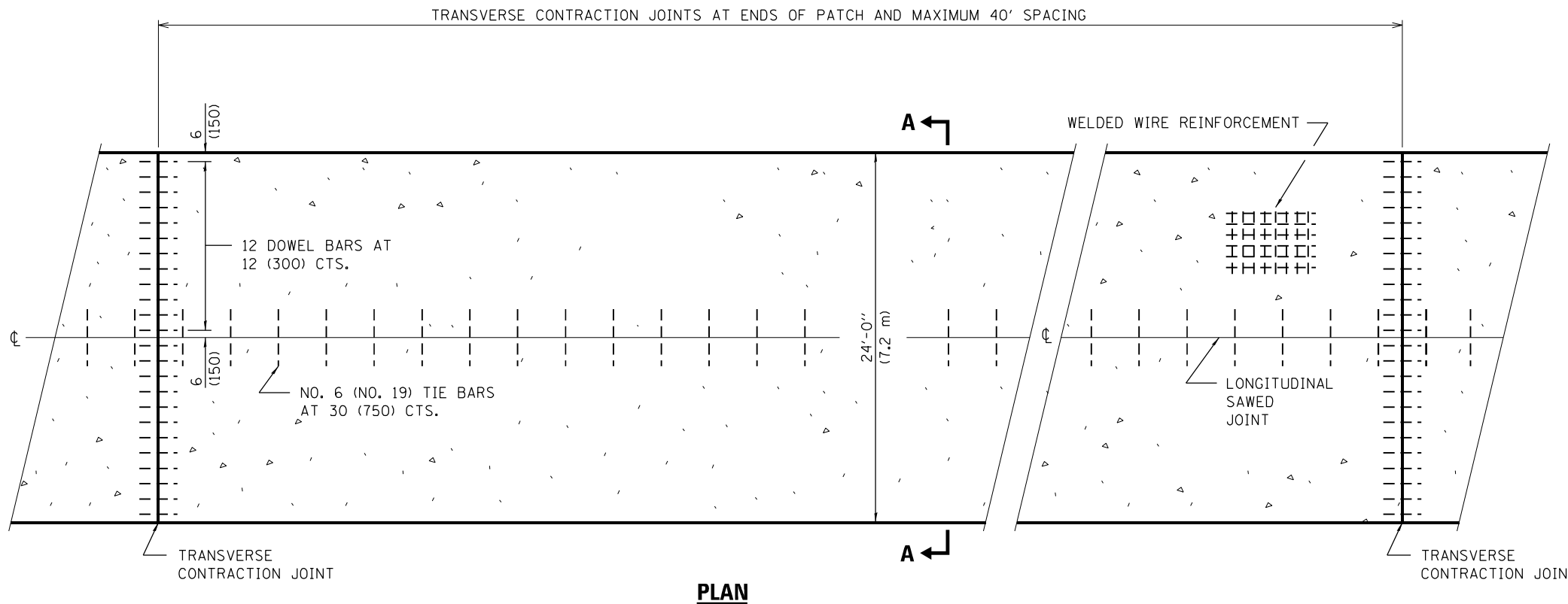
24' (7.2 m) PCC PAVEMENT OVER BOX CULVERT



SECTION A-A
(TYPICAL 2-LANE WITH SHOULDERS)



TRANSVERSE CONSTRUCTION JOINT
(IF NEEDED PER STANDARD SPECIFICATIONS)



PLAN

GENERAL NOTES

- SEE STANDARD 420001 FOR DETAILS NOT SHOWN.
- SEE STANDARD 420701 FOR WELDED WIRE REINFORCEMENT DETAILS.
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- ACTUAL DIMENSIONS TO MATCH FIELD CONDITIONS AND CONSTRUCTION METHODS.

REVISIONS

DRAWN	11-9-17
REVISED	7-23-18

STD. 9-25

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ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115



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PLOT DATE = 3/18/2021

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CONSTRUCTION DETAILS

SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	24
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

RURAL SIDE APPROACH DETAILS

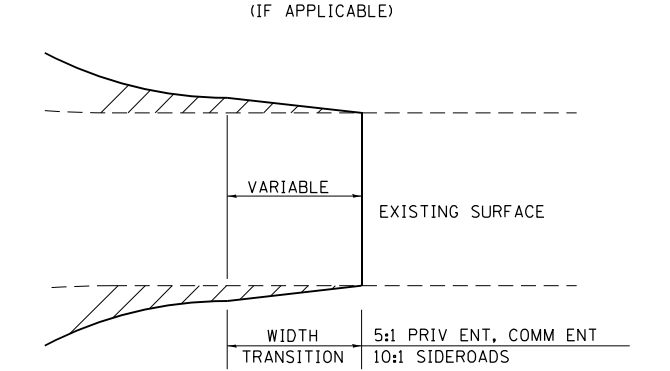
PRIVATE AND COMMERCIAL ENTRANCES

SIDEROADS

SIDEROAD DIMENSIONS (MIN.)

ADT	A (FT)	B (FT)
0 TO 250	18'	2'
250 TO 400	20'	2'
GREATER THAN 400	22'	4'

WIDTH TRANSITION DETAIL TO EXISTING

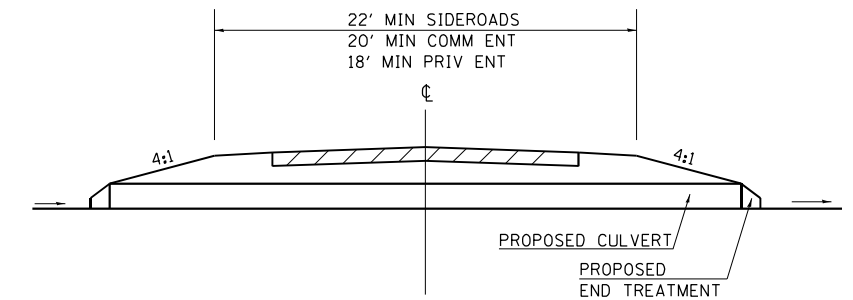


FIELD ENTRANCE TREATMENT

CONSTRUCT MAINLINE HOT-MIX ASPHALT AND AGGREGATE SHOULDERS THROUGH FIELD ENTRANCES.

IF A PIPE IS REQUIRED, PROVIDE A 22' WIDE EARTH EMBANKMENT WITH 15' RADII AT THE INTERSECTION.

DETAIL FOR CALCULATING CULVERT LENGTH

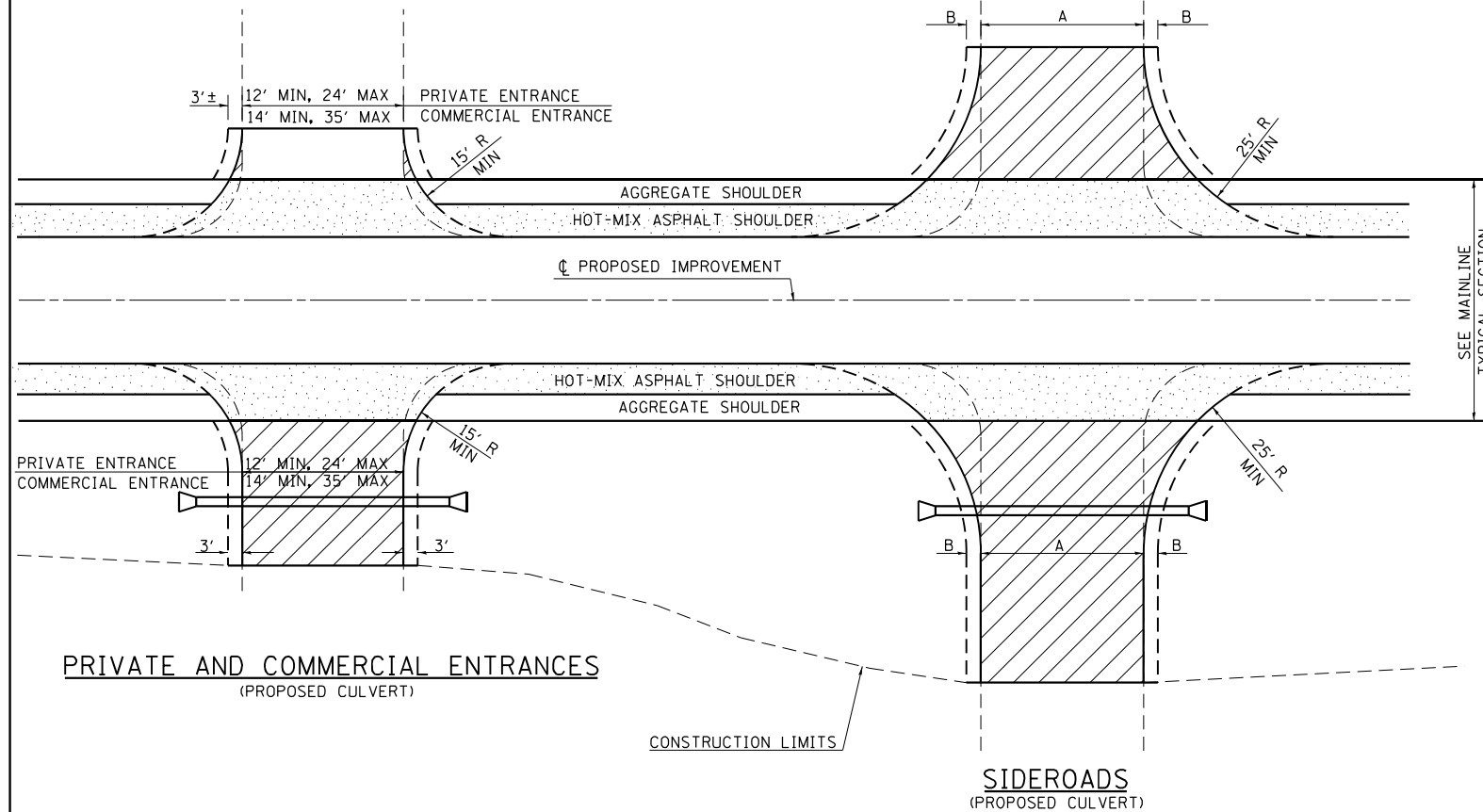


LEGEND

- CONSTRUCT HOT-MIX ASPHALT SHOULDER "FULL SHOULDER WIDTH" THROUGH ENTRANCE/INTERSECTION UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- IF REQUIRED, AGGREGATE TAPER FOR EXISTING GRAVEL SURFACE; HOT-MIX ASPHALT TAPER FOR EXISTING HIGHER TYPE SURFACES.
- 6" AGGREGATE SURFACE COURSE FOR EXISTING GRAVEL SURFACE; 2" HOT-MIX ASPHALT RESURFACING ON 4" AGGREGATE BASE COURSE FOR EXISTING HOT-MIX ASPHALT SURFACE; PCC DRIVEWAY PAVEMENT (6" - PE; 7" - CE) FOR EXISTING CONCRETE SURFACE.
- 3" MINIMUM HOT-MIX ASPHALT RESURFACING ON 8" MINIMUM AGGREGATE BASE COURSE FOR EXISTING GRAVEL SURFACE OR OIL & CHIP SURFACE; MATCH EXISTING FOR EXISTING HIGHER TYPE SURFACES.

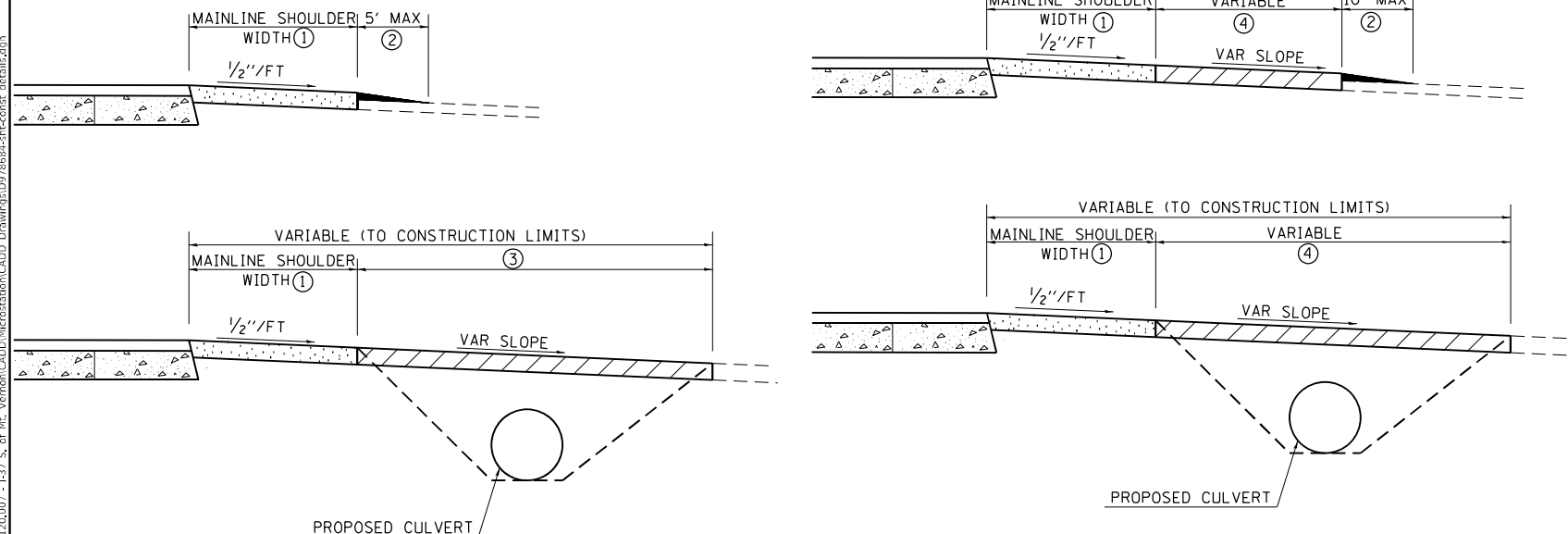
GENERAL NOTES

- ENTRANCE LOCATIONS ARE TO COMPLY WITH IDOT'S POLICY "ACCESS TO STATE HIGHWAYS".
- IN GENERAL, RELOCATED PRIVATE ENTRANCES ARE TO HAVE A 16' WIDE SURFACE WITH 3' WIDE SHOULDERS (22' WIDE EMBANKMENT).
- SEE PLANS FOR PROPOSED PROFILE GRADES AT ENTRANCES/SIDEROADS. THE DESIRABLE MAXIMUM PROFILE GRADE FOR ENTRANCES ARE 12% FOR PE; 10% FOR CE.
- ENTRANCE PIPE CULVERTS ARE TO BE A MINIMUM 15" DIAMETER AND NORMALLY REPLACED IN KIND; SIDEROAD PIPE CULVERTS ARE GENERALLY TO BE CONCRETE (18" MINIMUM DIAMETER).
- THE INTERSECTION RADII OF SIDEROADS CONSTRUCTED TO FULL POLICY STANDARDS SHOULD COMPLY WITH THAT NOTED IN THE BUREAU OF LOCAL ROADS ADMINISTRATIVE POLICIES MANUAL (5-8-13).



SIDEROADS

PRIVATE AND COMMERCIAL ENTRANCES



REVISIONS	
DRAWN	3-15-91
REVISED	10-02-91
REVISED	5-15-92
REVISED	1-20-00
REVISED	01-11-07
REVISED	5-7-08
REVISED	5-17-13

STD. 9-83

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

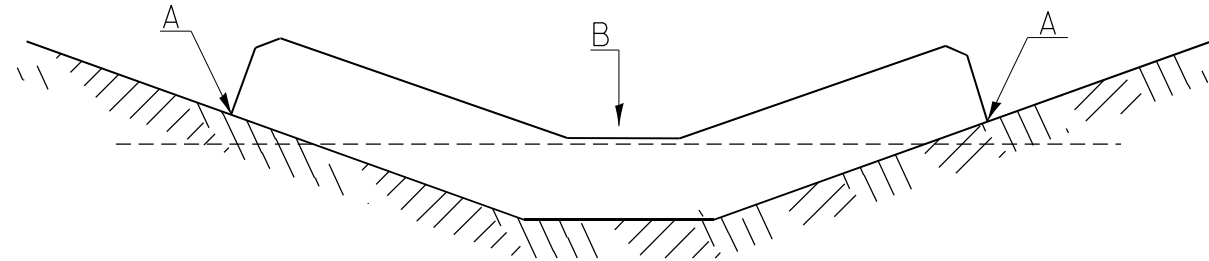
CONSTRUCTION DETAILS

SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	25
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

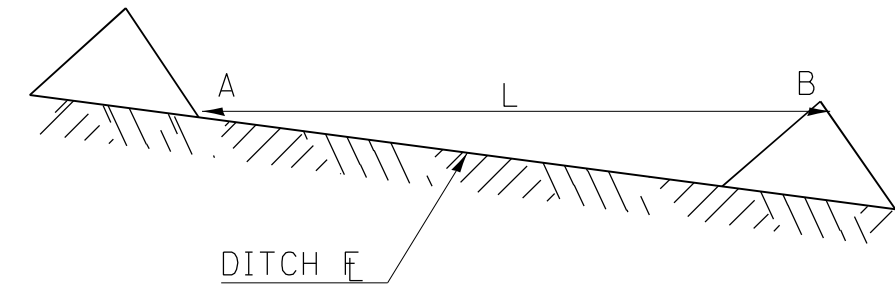
TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY DITCH CHECK IN DRAINAGE WAY



POINTS A SHOULD BE HIGHER THAN POINT B

SPACING BETWEEN TEMPORARY DITCH CHECKS



L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

B = THE LOW POINT IN CENTER OF CHECK

REVISIONS

DRAWN	9-01-99
REVISED	10-3-01
RESIZED	5-8-08
REVISED	05-04-10
REVIEWED	5-17-13

STD. 9-108

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OATES ASSOCIATES
www.oatesassociates.com
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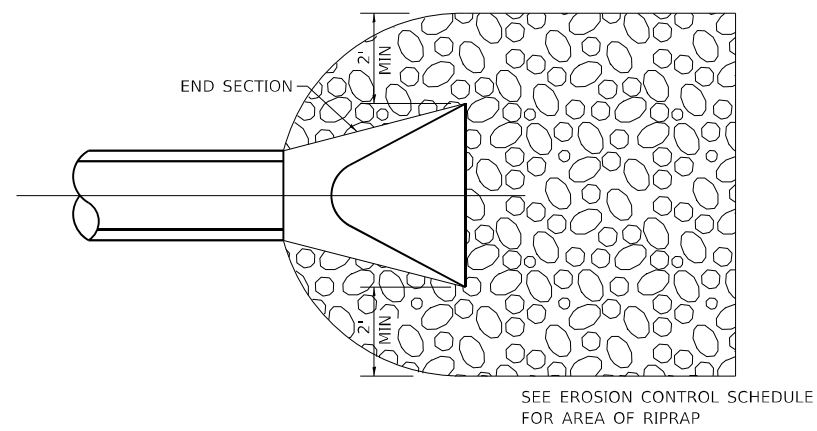
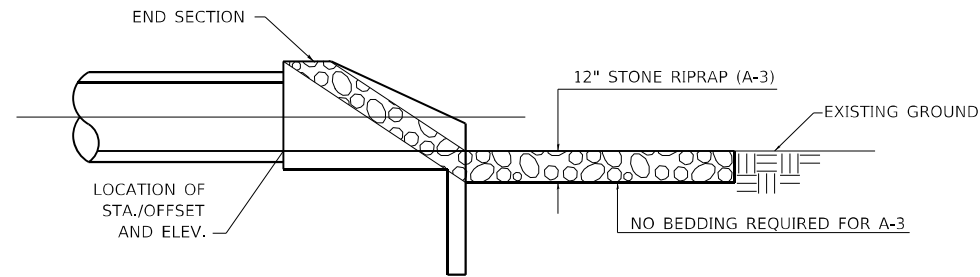
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

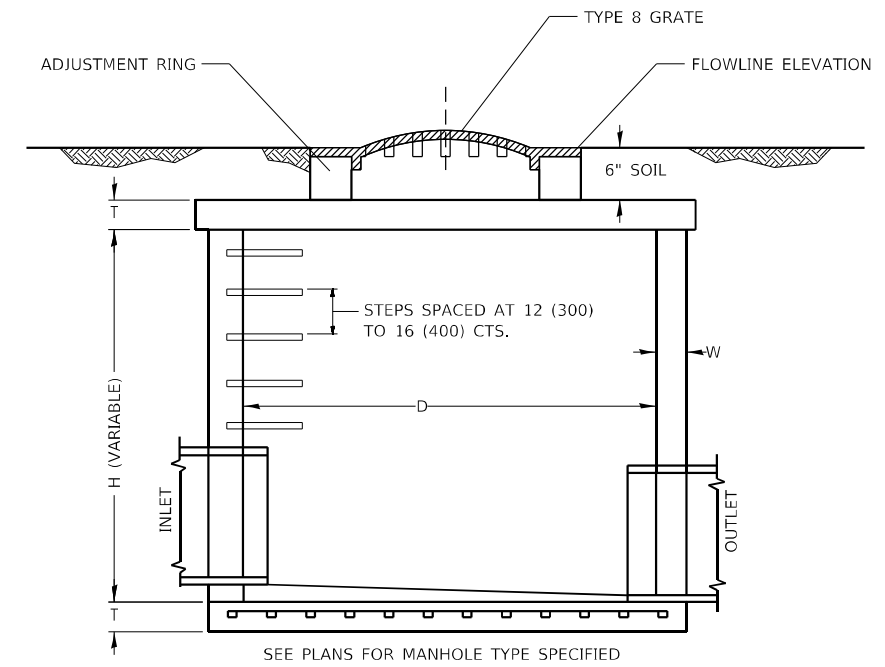
CONSTRUCTION DETAILS

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

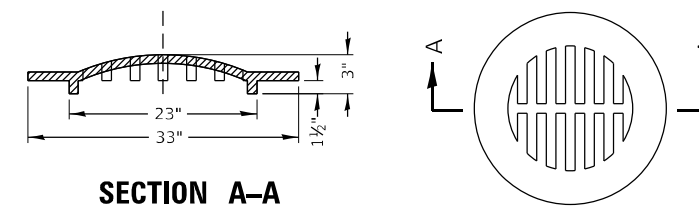
F.A.S. RTE. 2826	SECTION 1B-2	COUNTY JEFFERSON	TOTAL SHEETS 40	SHEET NO. 26
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				



TYPICAL RIPRAP DETAIL



MANHOLES, TYPE A, 6'-DIAMETER, TYPE 8 GRATE



SECTION A-A

TYPE 8 GRATE

MODEL: Default
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 ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115



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PLOT DATE = 3/18/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CONSTRUCTION DETAILS

SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	27
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

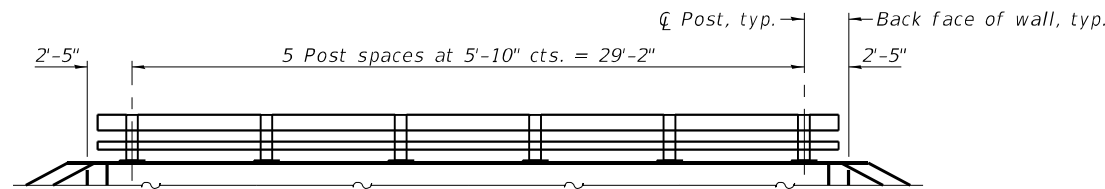
Bench Mark: Chiseled "L" on NE corner of SW Wingwall of SN 041-0031, 18'± from CL IL 37 - Elev 437.16

Existing Structure: S.N. 041-0031 was originally built in 1921 as part of SBI Route 37, Section 1B. The original existing structure is a single span concrete through girder bridge on closed concrete abutments supported by spread footings. The structure was widened in 1952 by adding a 3 span reinforced concrete slab on each side of the bridge and is 28'-0" face to face of abutment backwalls with a clear width of 37'-4"±.

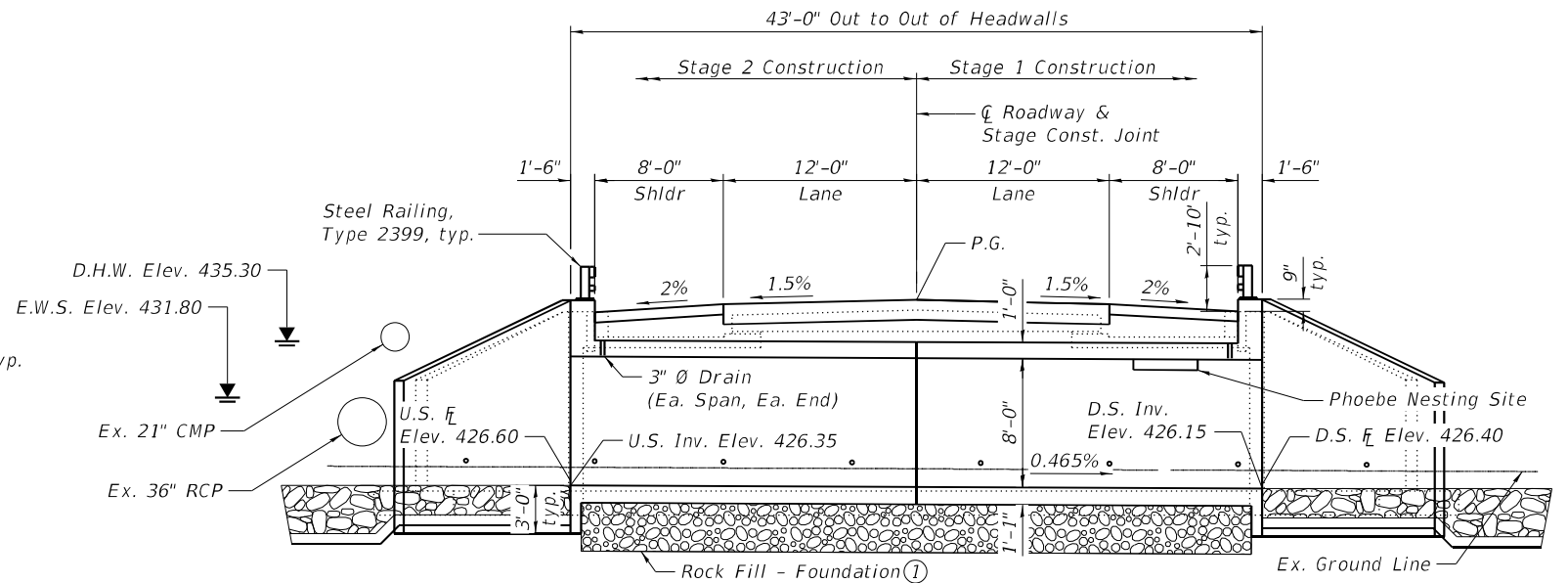
Traffic Control: One lane of traffic will be maintained by utilizing staged construction.

No Salvage.

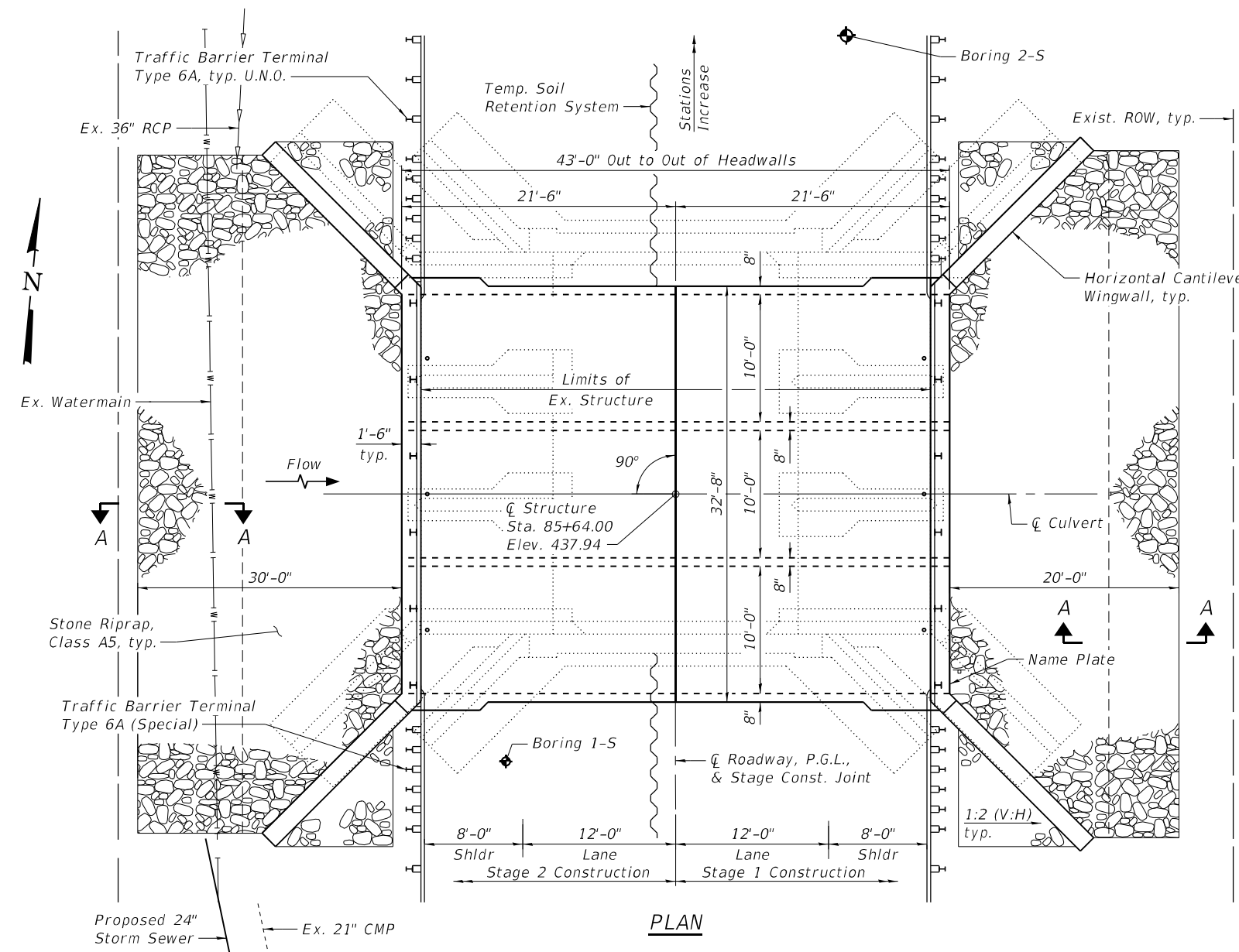
Precast alternate not allowed.



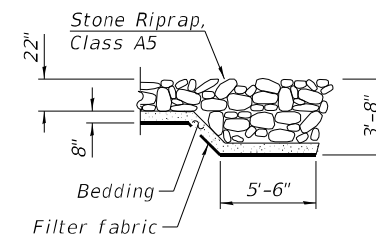
HEADWALL RAILING ELEVATION



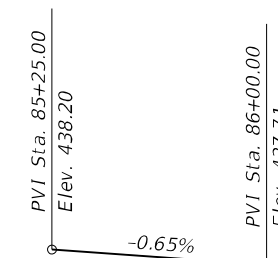
LONGITUDINAL SECTION



PLAN



SECTION A-A



PROFILE GRADE
(Along CL IL 37)

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	10	1,005	161	233	434.6	0.7	0.1	435.3	434.7
Base	100	1,715	169	233	435.3	1.1	0	436.4	435.3
OVT (E)	100	1,715	169		435.6	1.7	0.4	437.3	436.0
OVT (P)	500	2,325		233	436.2		1.4		437.6
Max. Calc.	500	2,325	169	233	436.2	2.2	1.4	438.4	437.6

Exist Overtopping Elev. 437.41 @ Sta. 87+00
Prop Overtopping Elev. 437.41 @ Sta. 87+00

Drainage Area = 2.7 Sq Mi

10 Year Velocity through Existing Structure = 6.06 fps
10 Year Velocity through Proposed Structure = 4.32 fps

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

LOADING HL-93

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

Range 3E, 3rd P.M.



LOCATION SKETCH

GENERAL PLAN & ELEVATION
IL 37 OVER UNNAMED STREAM

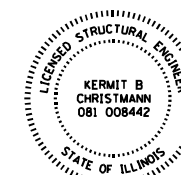
F.A.S. RTE. 2826 - SEC. 1B-2

JEFFERSON COUNTY

STATION 85+64.00

STRUCTURE NO. 041-2023

Notes:
① For additional limits of Removal and Disposal of Unsuitable Material for Structures and Rock Fill - Foundation, see Section Thru Barrel on Sheet 2 of 9.



APPROVED
For Structural Adequacy Only
Sh. Carl Pappas
Engineer of Bridges & Structures

Kermit B. Christmann
EXPIRES: 11/30/2022
DATE: 3/18/2021

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 041-2023

SHEET 1 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	28
CONTRACT NO. 78684				

ILLINOIS FED. AID PROJECT

FILE NAME: H:\P\18120\18120.007 - 1-37 S. of Mt. Vernon\Bridges\Microstation\0412023-78684-001-General Plan & Elevation.dgn

OATES ASSOCIATES
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ILLINOIS DESIGN FIRM LICENSE NO. 184.001115

USER NAME	DESIGNED	REVISIONS
	KBC	
	MAM	
	KBC	
	MAM	

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Protective coat shall not be applied to surfaces to which Membrane Waterproofing System for Buried Structures is applied.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

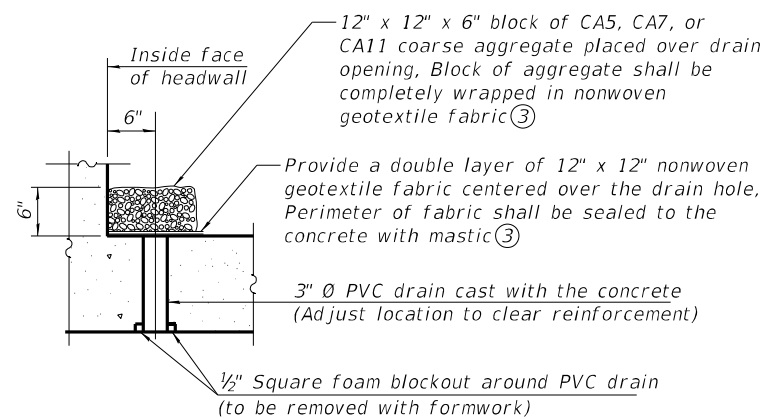
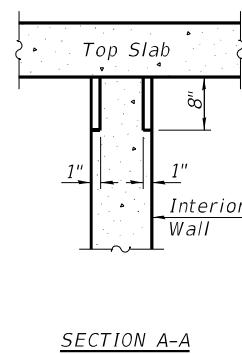
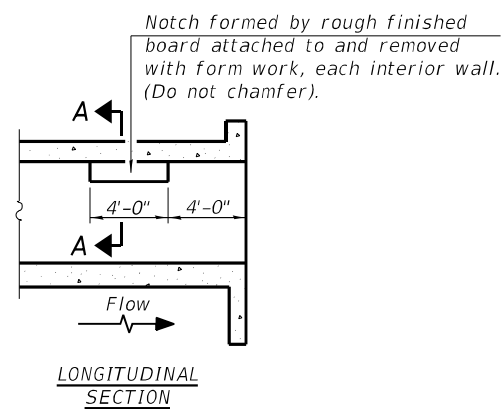
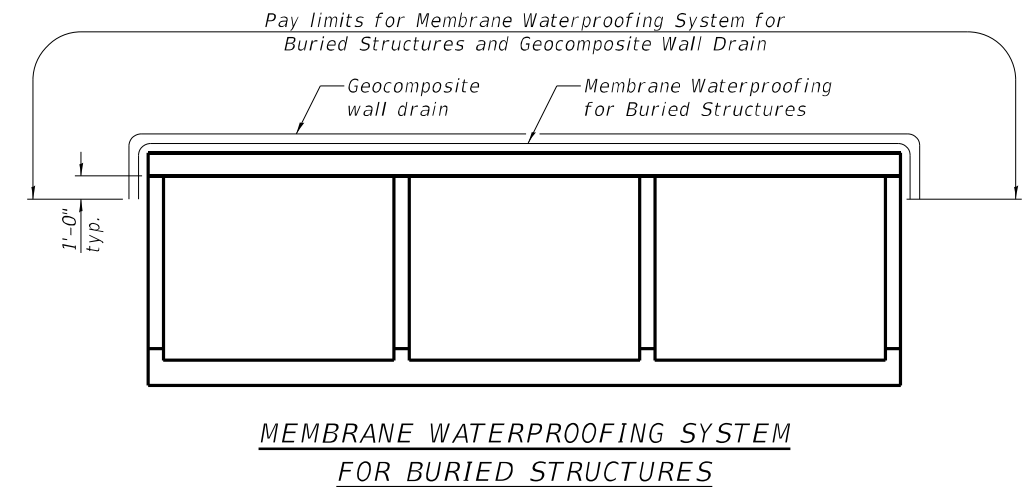
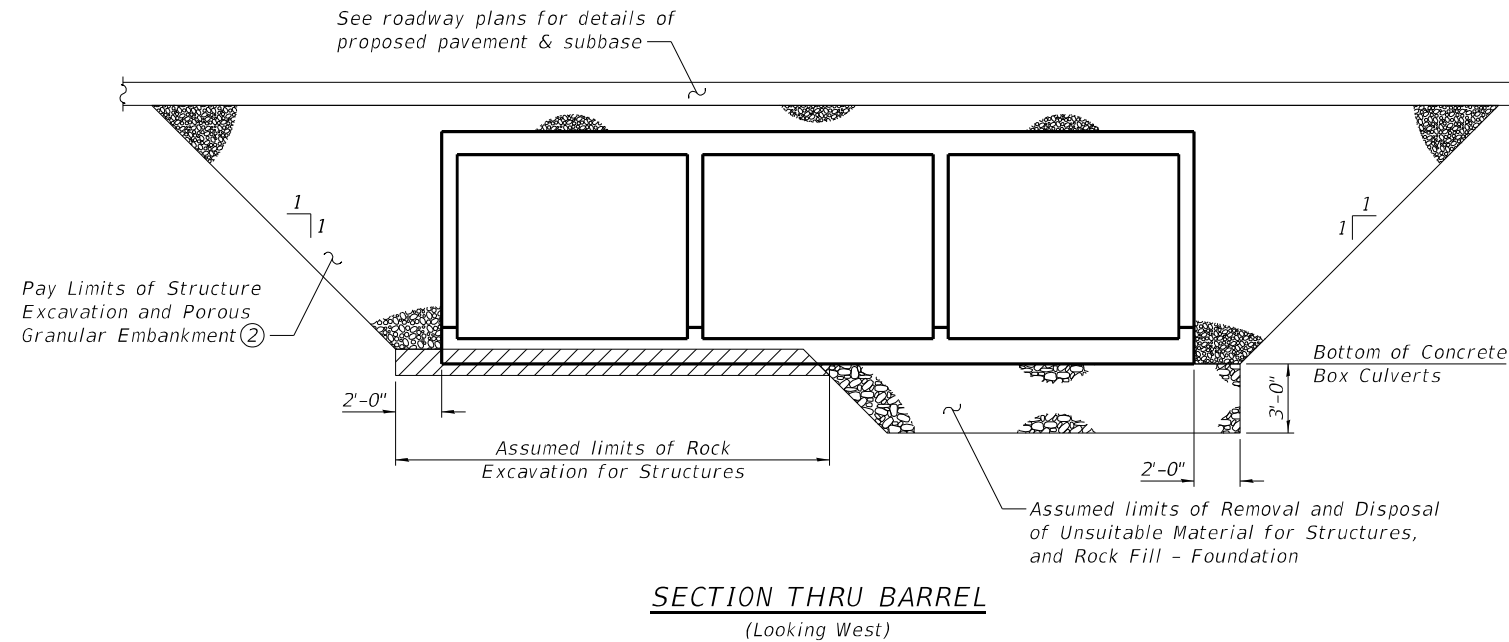
Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage 1 removal to ensure the remaining portion will not be prematurely damaged.

INDEX OF SHEETS

Sheet No.	Description
1	General Plan & Elevation
2	General Data
3	Stage Construction Details
4	Temporary Concrete Barrier for Stage Construction
5	Culvert Plan
6	Culvert Details
7	Steel Railing Type 2399
8	Bar Splicer Assembly and Mechanical Splicer Details
9	Soil Boring Logs

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	445
Stone Riprap, Class A5	Sq. Yd.	303
Filter Fabric	Sq. Yd.	303
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	527
Rock Excavation for Structures	Cu. Yd.	41
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	77
Protective Coat	Sq. Yd.	36
Reinforcement Bars, Epoxy Coated	Pound	43,050
Bar Splicers	Each	168
Steel Railing, Type 2399	Foot	69
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	535
Concrete Box Culverts	Cu. Yd.	208.9
Geocomposite Wall Drain	Sq. Yd.	165
Rock Fill - Foundation	Ton	137
Temporary Support System	Each	1
Membrane Waterproofing System for Buried Structures	Sq. Yd.	165



STATION 85+64.00
 BUILT 202_ BY
 STATE OF ILLINOIS
 F.A.S. RT. 2826 SEC. 1B-2
 LOADING HL-93
 STRUCTURE NO. 041-2023

NAME PLATE
 See Std. 515001

PHOEBE NESTING
SITE DETAILS
 (Downstream End Only)

Notes:

- Excavation below bottom of Concrete Box Culverts shall be paid for as Removal and Disposal of Unsuitable Material for Structures. Backfill shall be paid for as Rock Fill - Foundation, see special provisions. The excavated area below bottom of Concrete Box Culverts adjacent to the stage line shall be backfilled immediately following excavation of unsuitable material, as directed by the Engineer.
- Porous Granular Embankment shall extend the entire length of the box and along back face of wingwalls below the riprap bedding material.
- 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.
- 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.

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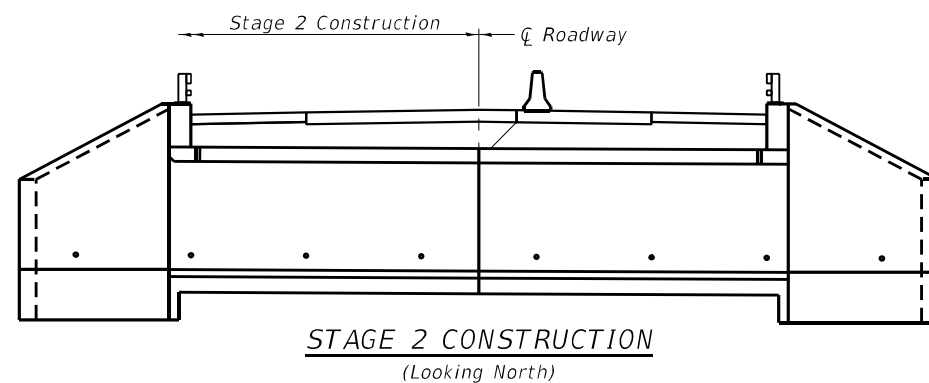
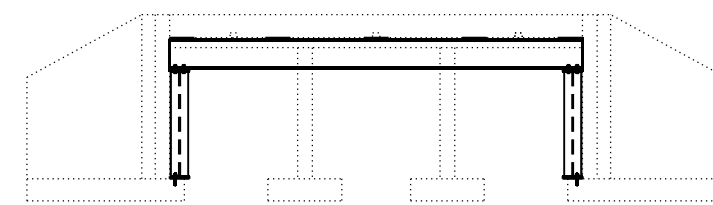
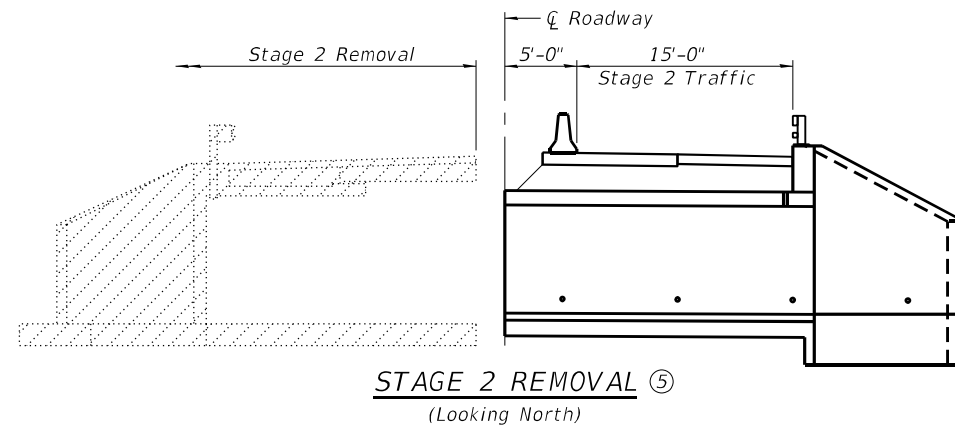
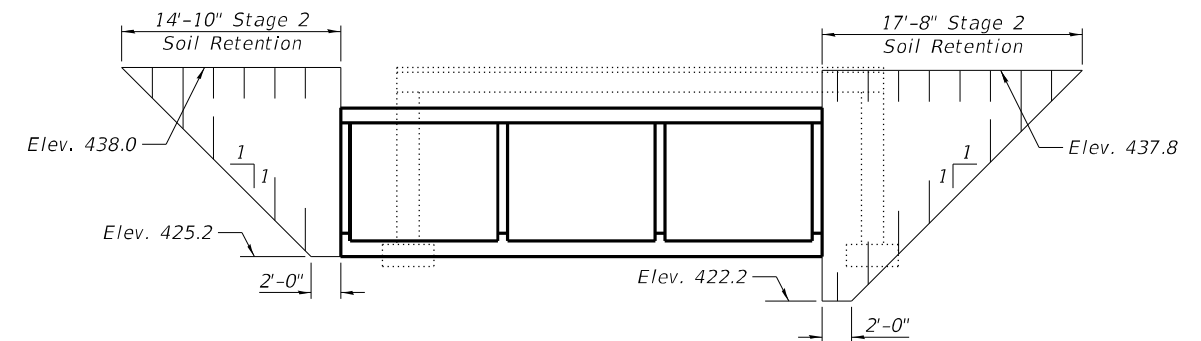
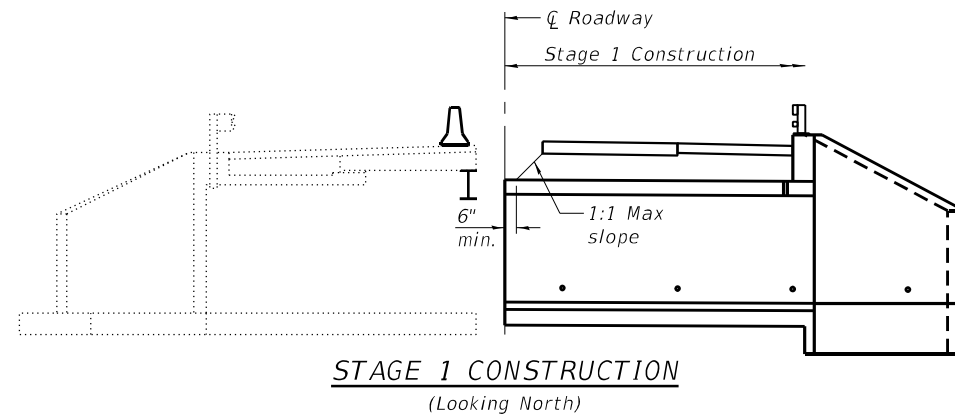
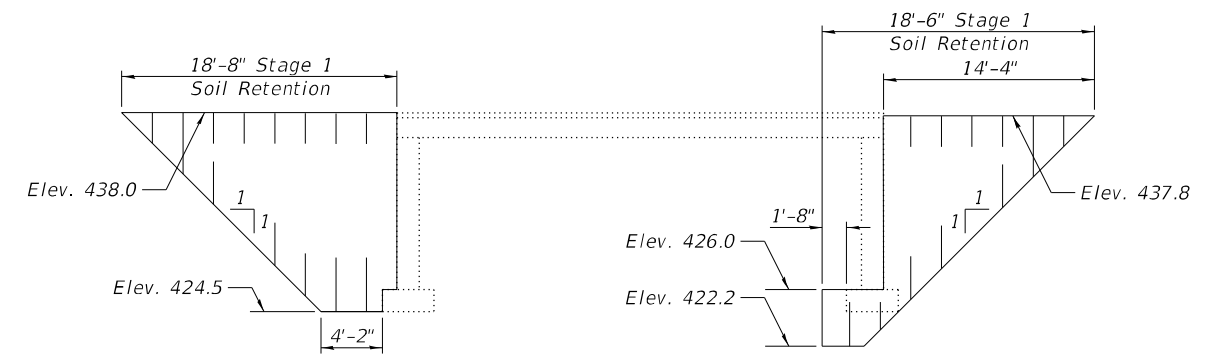
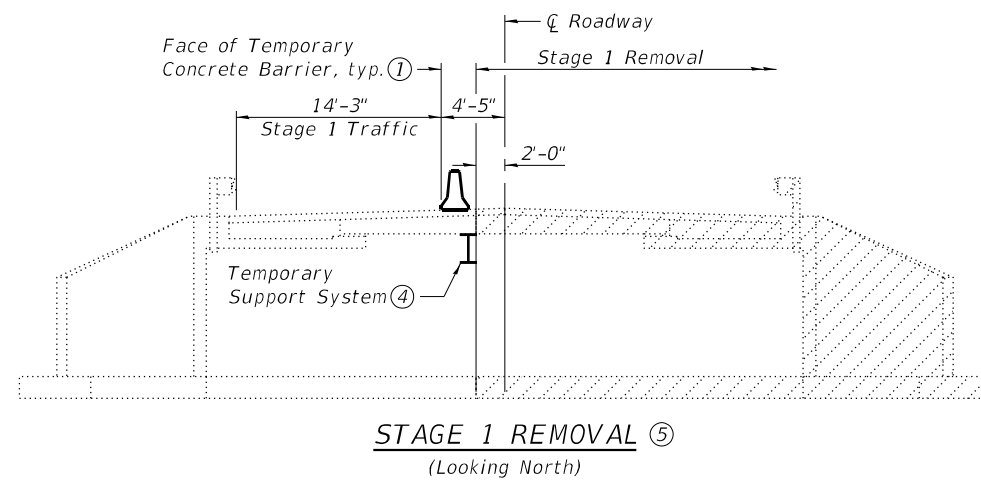
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 041-2023

SHEET 2 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	29
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

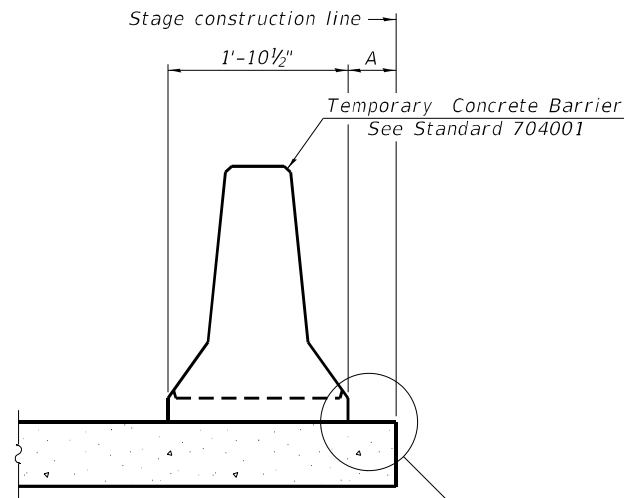


- Notes:
- ① For details of Temporary Concrete Barrier, see sheet 4 of 9. For quantity of Temporary Concrete Barrier and related traffic control, see roadway plans.
 - ② Hatched areas indicate removal.
 - ③ A cantilevered sheet piling design does not appear feasible and additional members or other retention 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.
 - ④ The Contractor shall submit a Temporary Support System design including plan details and calculations for review and acceptance by the Engineer. Note that splices may be required to erect Temporary Support System within existing structure.
 - ⑤ Portions of the existing structure within the footprint of the proposed culvert shall be removed entirely. Portions of the existing structure beyond the footprint of the proposed culvert shall be removed to the limits of Structure Excavation.

FILE NAME: H:\PI\18120\18120.007 - 1-37 S. of Mt. Vernon\Bridges\Microstation\0412023-78684-003-Stage Construction Details.dgn

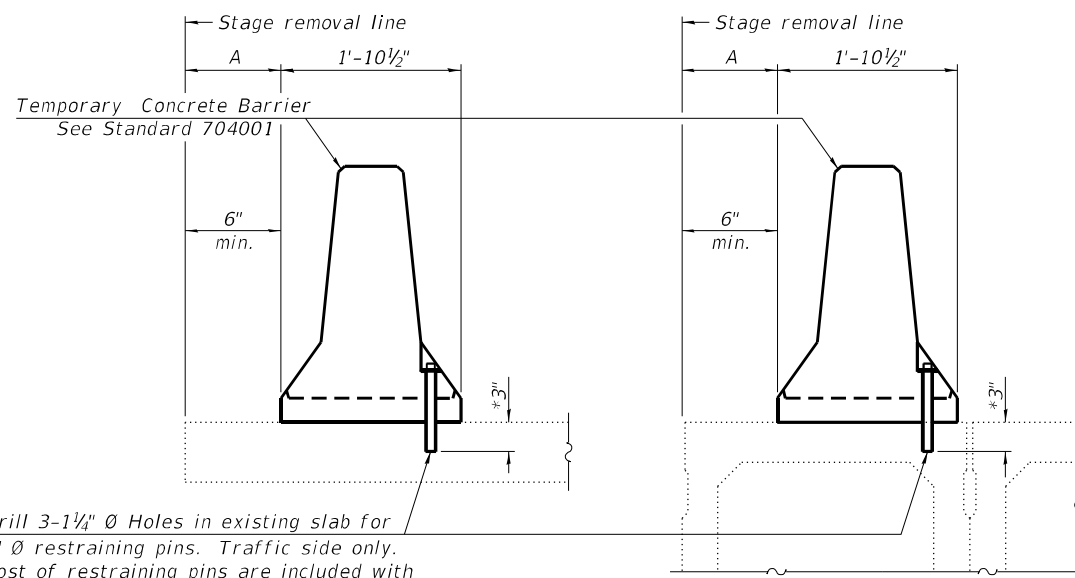
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	30
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				



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

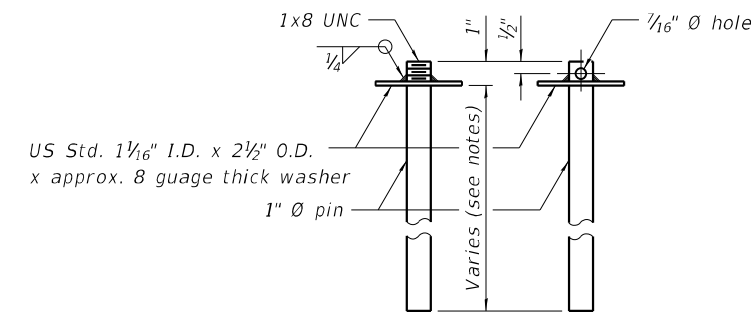


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

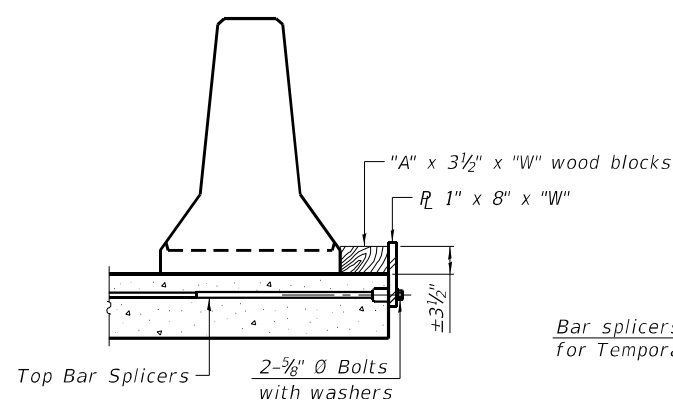
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

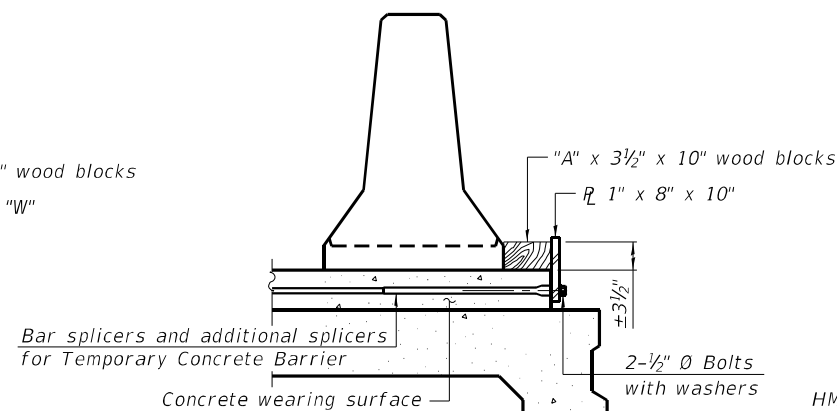


RESTRAINING PIN

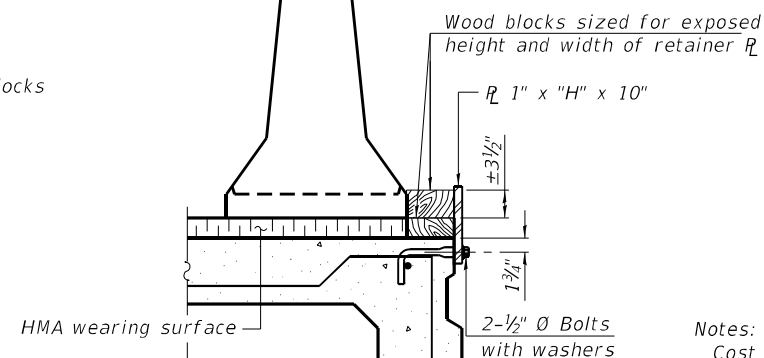
SECTIONS THRU SLAB OR DECK BEAM



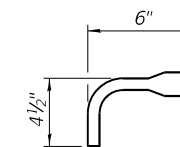
DETAIL I



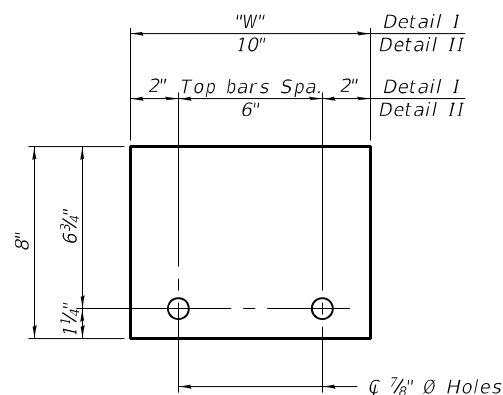
DETAIL II



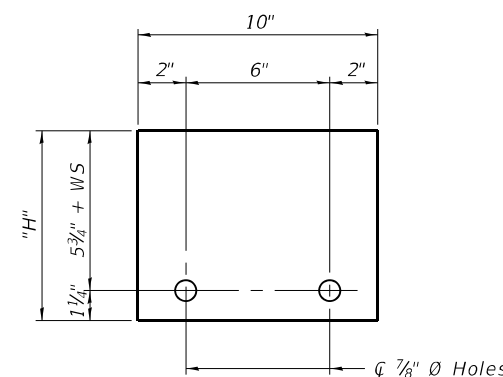
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



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

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate center 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.

FILE NAME: H:\P\18120\18120.007 - 1-37 S. of Mt. Vernon\Bridge\Microstation\0412023-78684-004-Temporary Concrete Barrier for Stage Construction.dgn

R-27 2-17-2017



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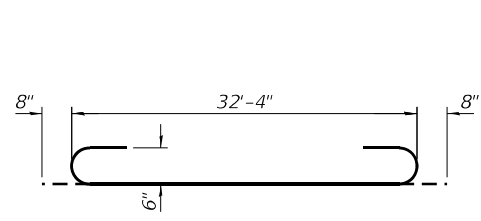
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 041-2023

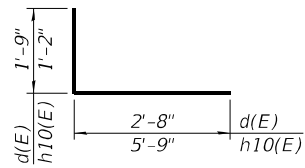
SHEET 4 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	31
CONTRACT NO. 78684				

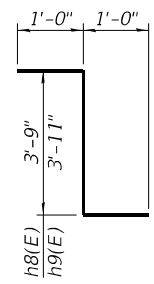
ILLINOIS FED. AID PROJECT



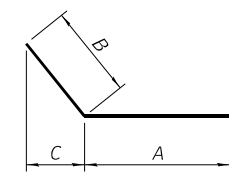
BAR a(E)



BARS d(E) & h10(E)

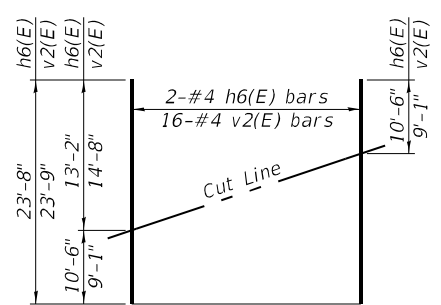


BARS h8(E) & h9(E)



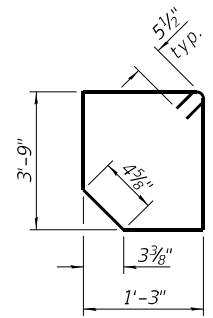
BARS h2(E), h3(E), & h4(E)

Bar	A	B	C
h2(E)	5'-0"	8'-10"	6'-3"
h3(E)	14'-11"	5'-0"	3'-6 1/2"
h4(E)	16'-6"	3'-3"	2'-3 3/8"

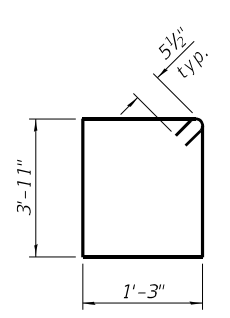


FIELD CUTTING DIAGRAM

Order h6(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite face of wing. Number of bars called out in diagram is for one wing.



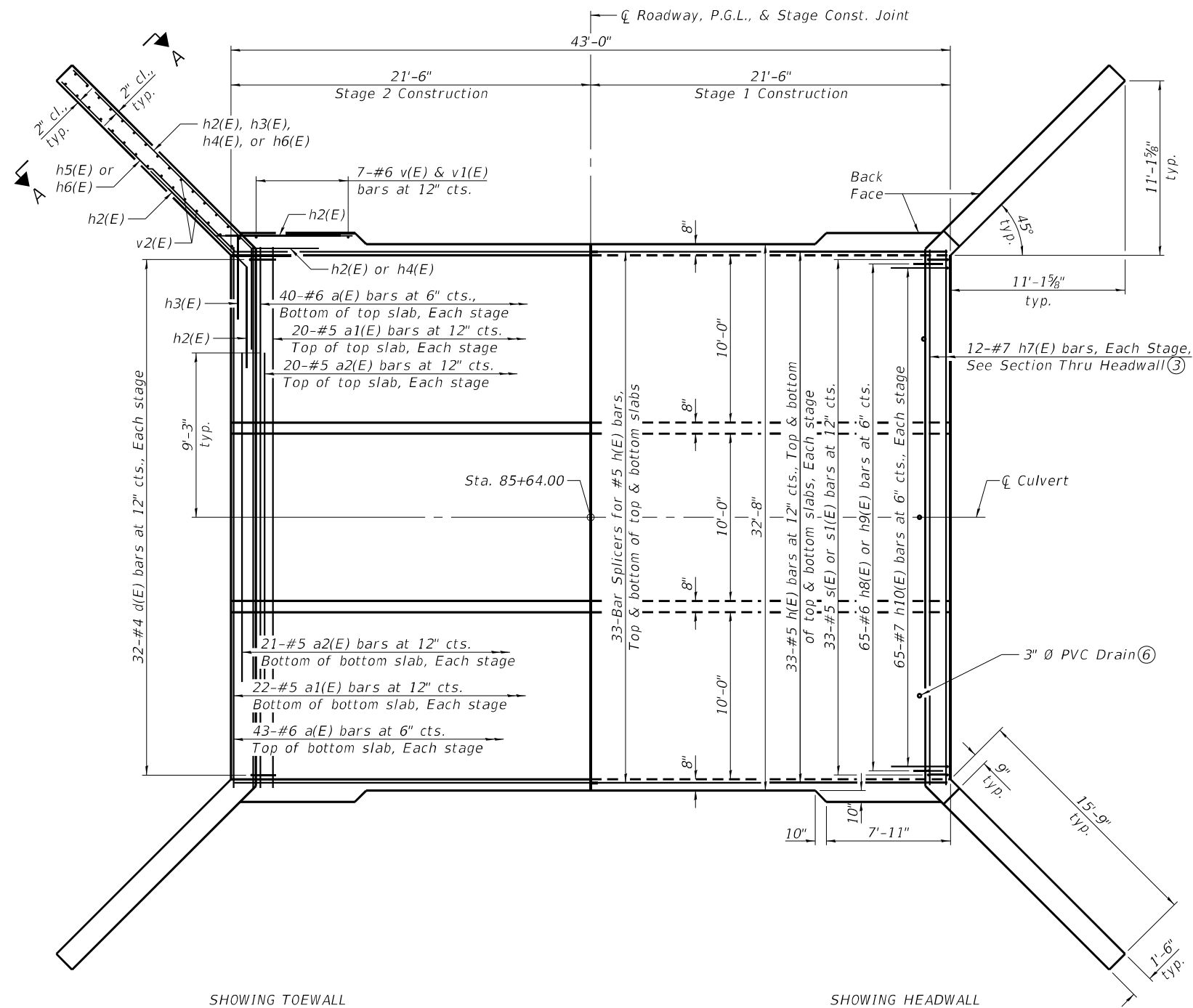
BAR s(E)



BAR s1(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	166	#6	33'-8"	
a1(E)	84	#5	32'-4"	
a2(E)	82	#5	18'-6"	
a3(E)	2	#4	32'-4"	
d(E)	64	#4	4'-5"	
h(E)	264	#5	21'-2"	
h1(E)	72	#5	21'-4"	
h2(E)	148	#8	13'-10"	
h3(E)	16	#8	19'-11"	
h4(E)	60	#8	19'-9"	
h5(E)	40	#4	15'-7"	
h6(E)	8	#4	23'-8"	
h7(E)	24	#7	31'-0"	
h8(E)	65	#6	5'-9"	
h9(E)	65	#6	5'-11"	
h10(E)	130	#7	6'-11"	
s(E)	33	#5	10'-9"	
s1(E)	33	#5	11'-3"	
v(E)	308	#6	5'-5"	
v1(E)	308	#6	8'-2"	
v2(E)	64	#4	23'-9"	
Reinforcement Bars, Epoxy Coated			Pound	43,050
Concrete Box Culverts			Cu. Yd.	208.9



SHOWING TOEWALL

SHOWING HEADWALL

PLAN

FILE NAME: H:\P\18120\18120.007 - 1-37 S. of Mt. Vernon\Bridge\Microstation\0412023-78684-005-Culvert_Plan.dgn



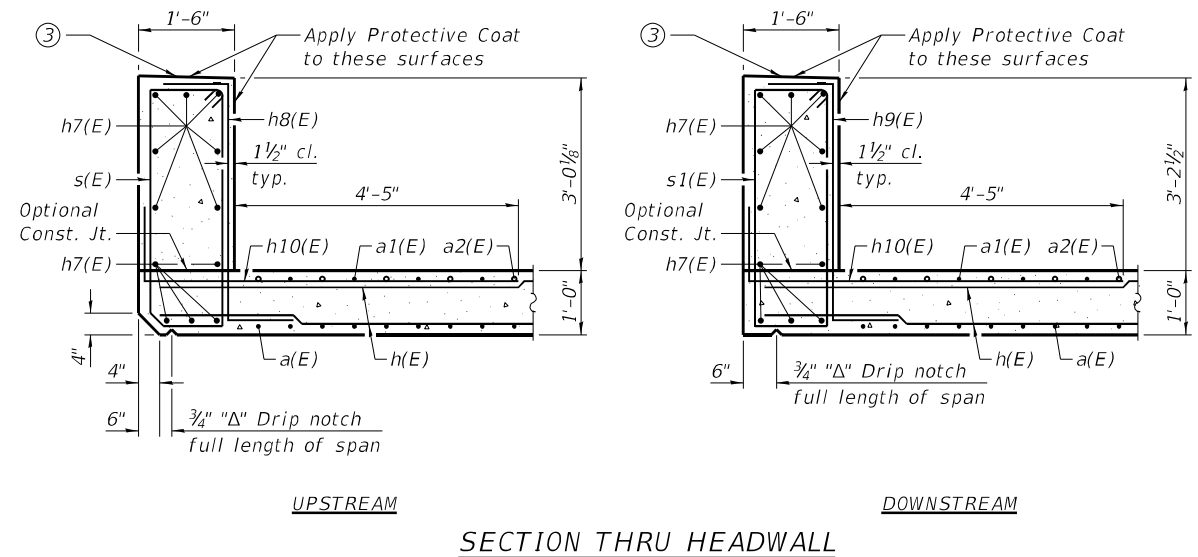
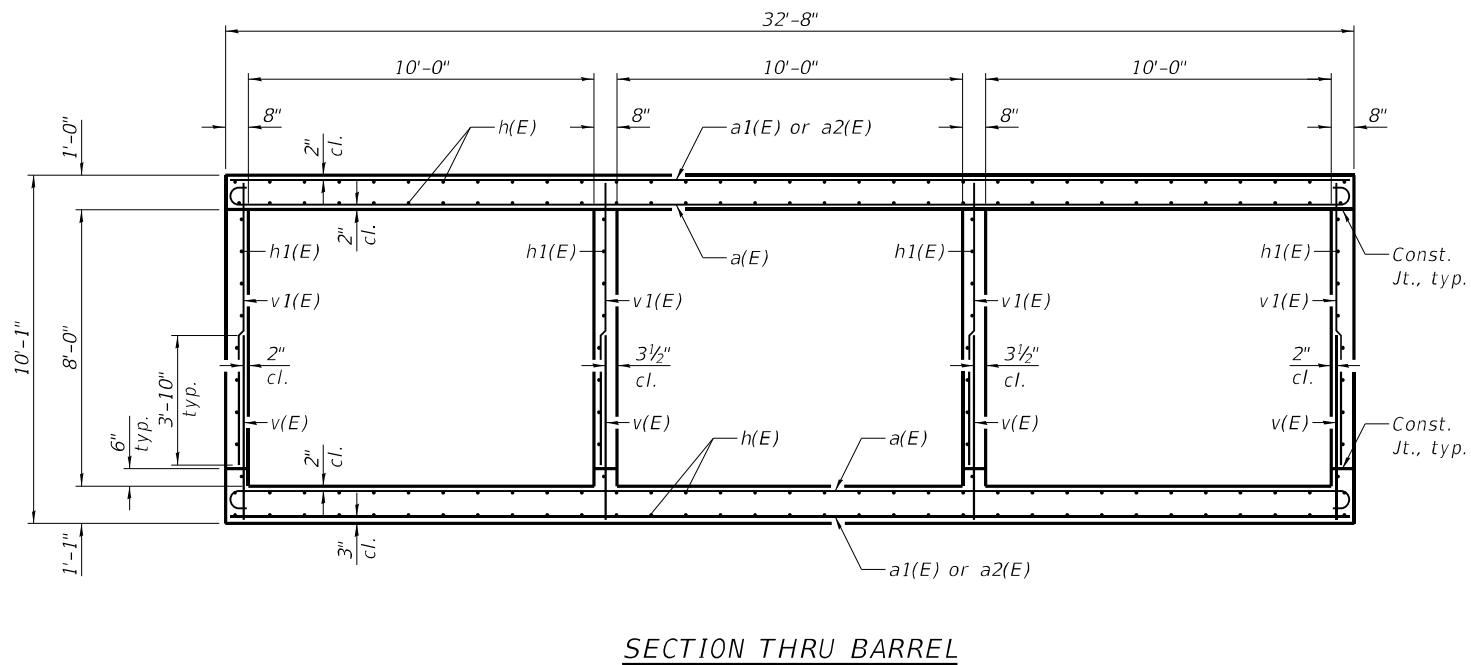
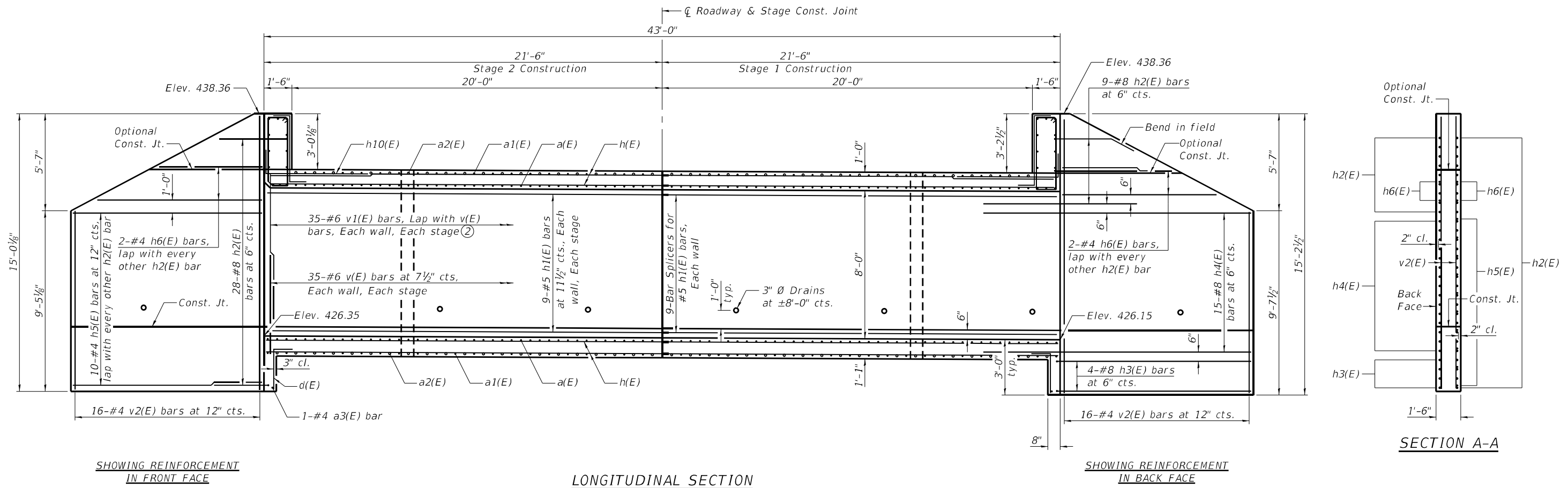
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	CHECKED - MAM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT PLAN
STRUCTURE NO. 041-2023

SHEET 5 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	32
				CONTRACT NO. 78684
		ILLINOIS	FED. AID PROJECT	



- Notes:**
- A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
 - At the Contractor's option, a longer v(E) bar may be ordered to replace the v1(E) bar. No reduction in quantities shall be made for this substitution.
 - Slope top of headwall towards roadway at 1/4" per 12".

FILE NAME: H:\P\18120\18120.007 - 1-37 S. of Mt. Vernon\Bridges\Microstation\0412023-78684-006-Culvert Details.dgn



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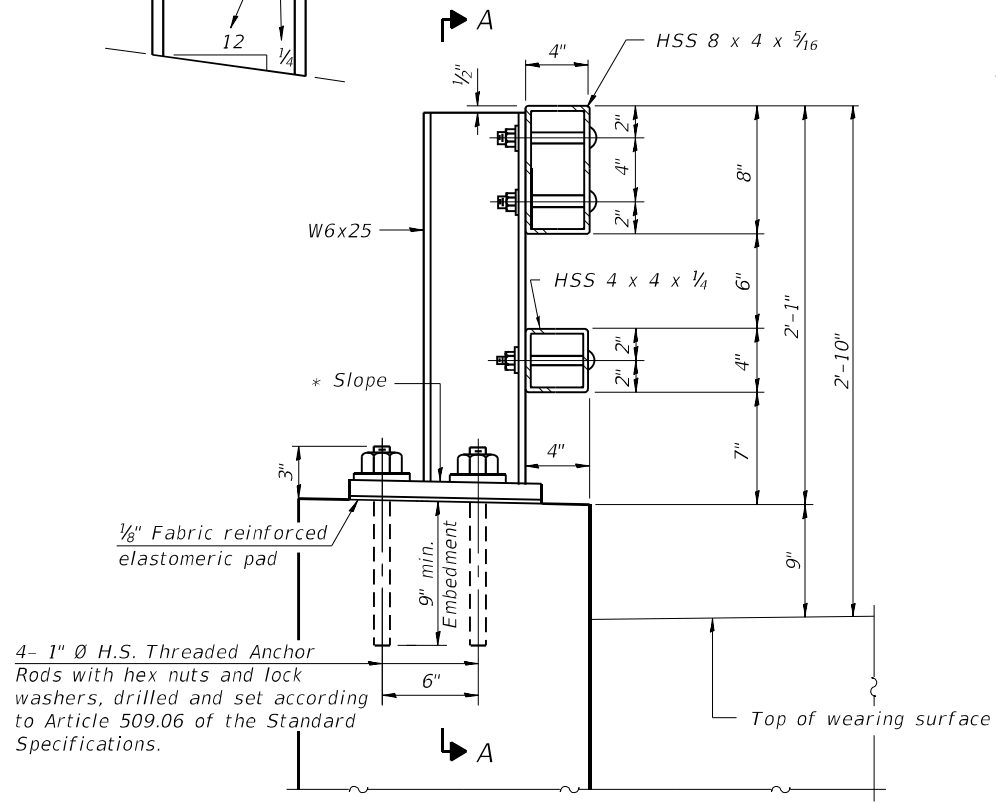
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
STRUCTURE NO. 041-2023

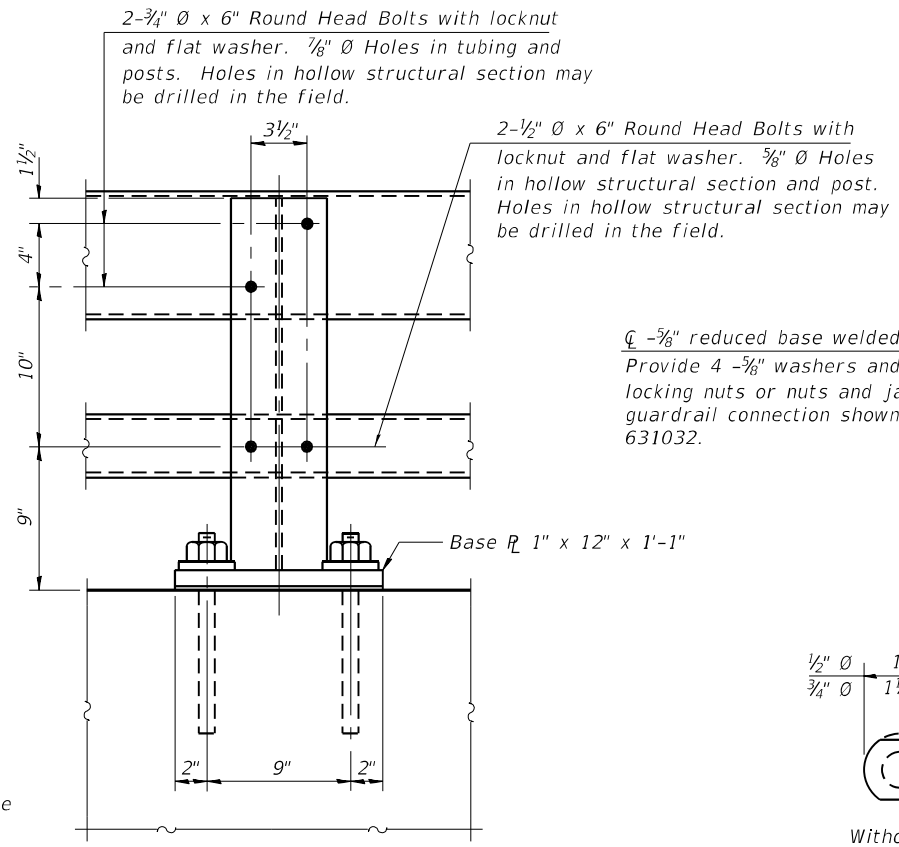
SHEET 6 OF 9 SHEETS

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CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

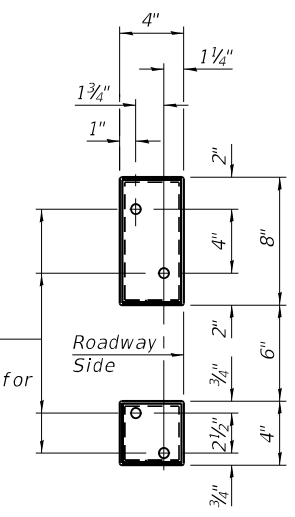
* Cut bottom end of post to curb slope.



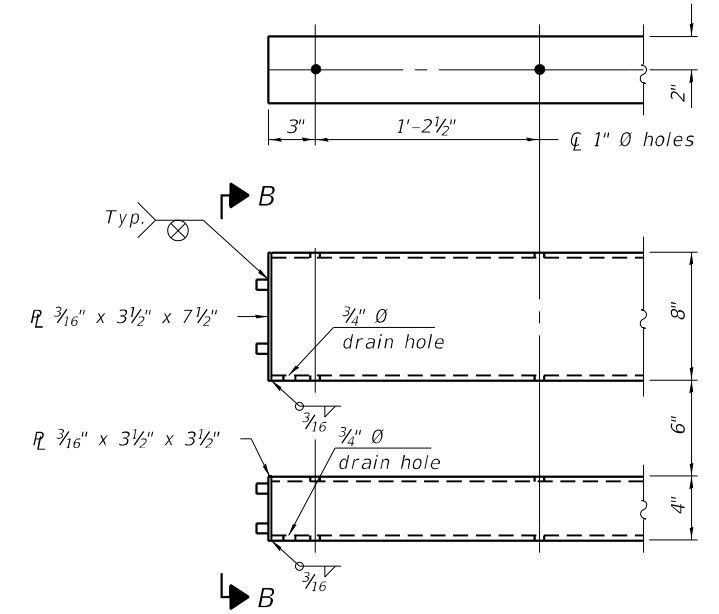
SECTION AT RAIL POST



SECTION A-A

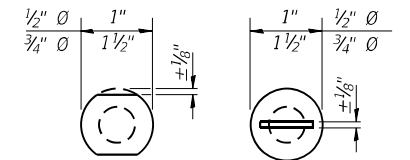


VIEW B-B

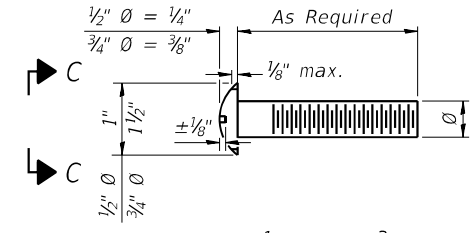


END OF RAIL DETAILS

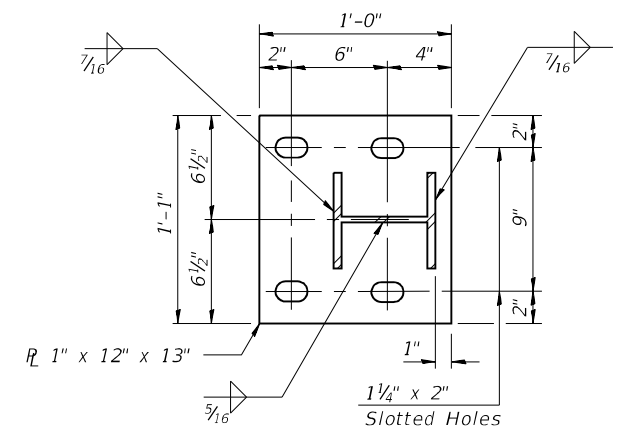
Provide 4 - 5/8 inch reduced base welded studs. Provide 4 - 5/8 inch washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032.



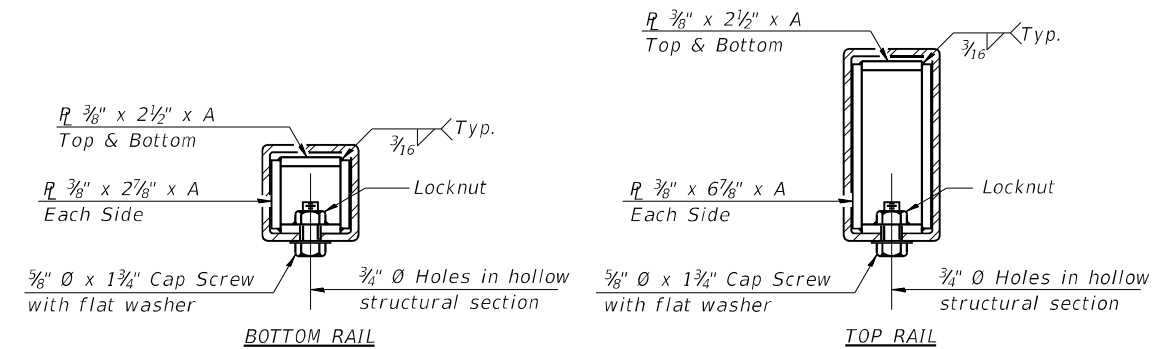
VIEW C-C



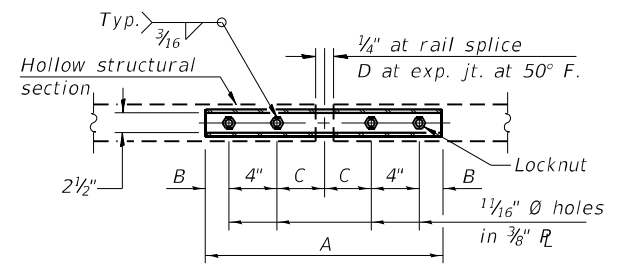
DETAIL OF 1/2" & 3/4" ROUND HEAD BOLTS



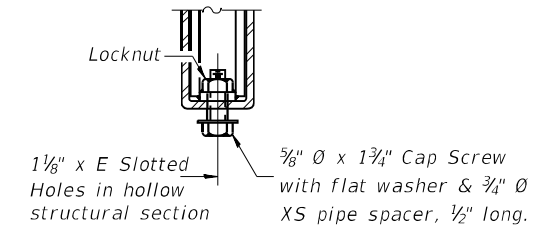
BASE PLATE DETAIL



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE R TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

- Notes:
- For post spacing, see sheet 1 of 9.
 - Provide one 1/8 inch and two 1/16 inch steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
 - All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	69'

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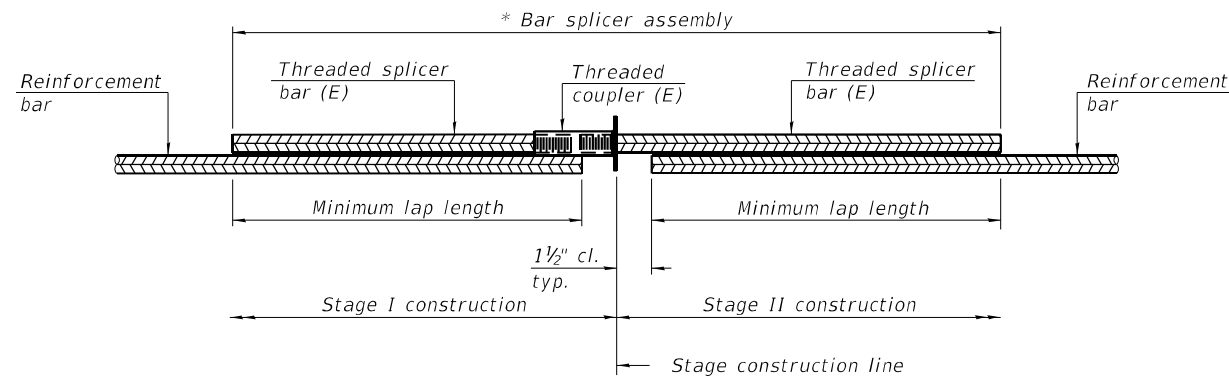
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STEEL RAILING, TYPE 2399
STRUCTURE NO. 041-2023

SHEET 7 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2826	1B-2	JEFFERSON	40	34
CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

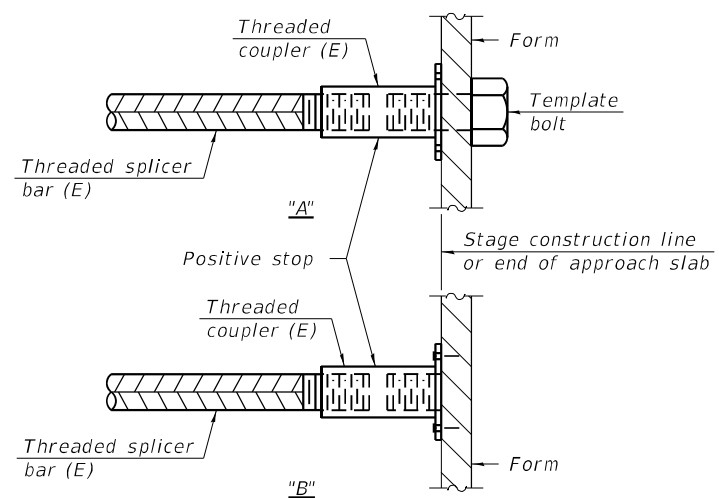


STANDARD BAR SPLICER ASSEMBLY PLAN
 (All components shall be provided from one supplier)

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

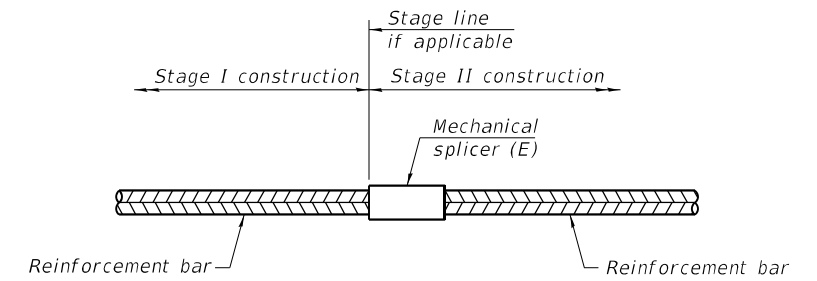
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top & Bottom Slab	#5	132	3'-2"
Barrel Walls	#5	36	3'-7"



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.

BSD-1

1-1-2020

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BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 041-2023

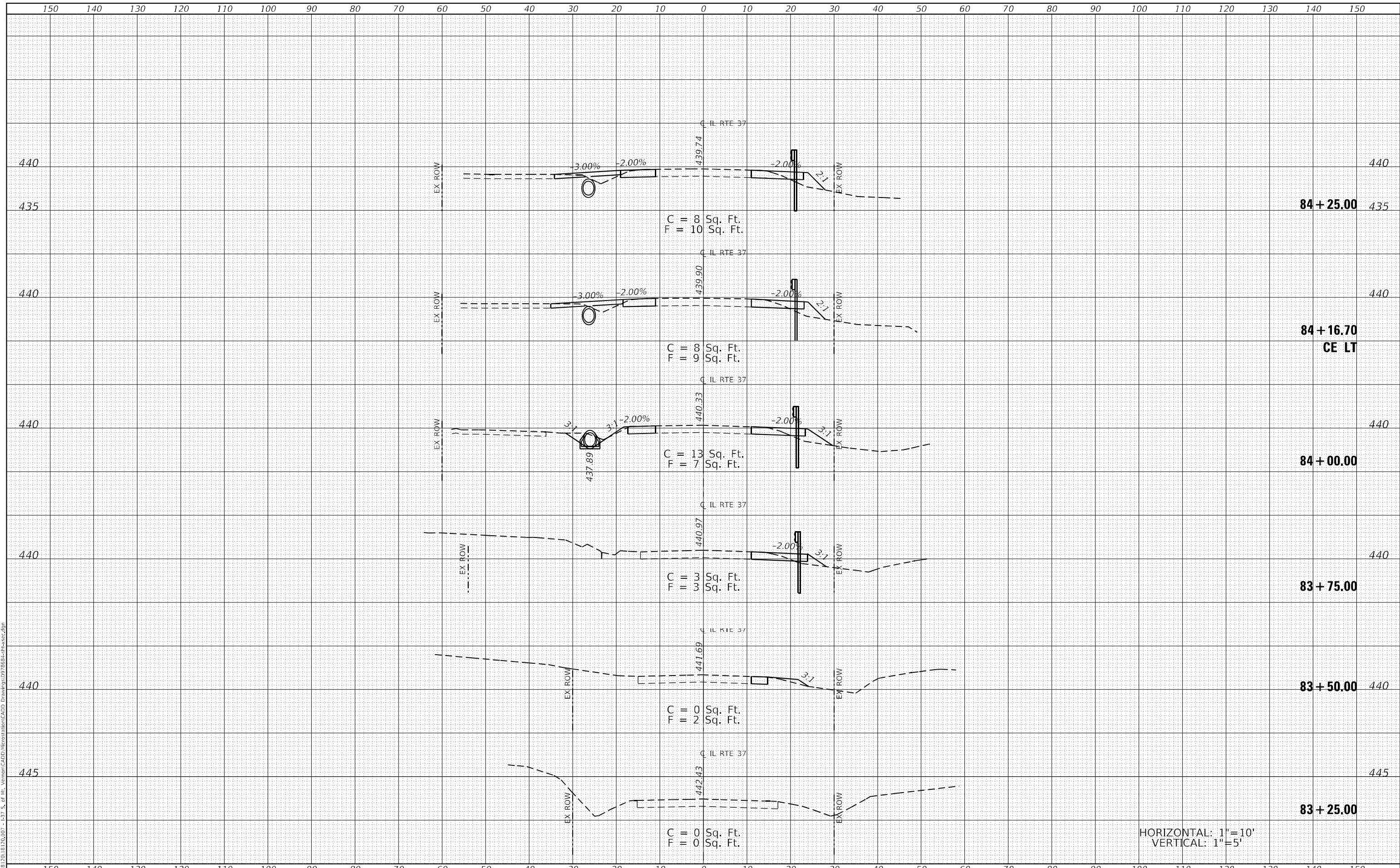
SHEET 8 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

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NOTE BOOK	PLOTTED
NO.	TEMPLATE
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HORIZONTAL: 1"=10'
 VERTICAL: 1"=5'



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CROSS SECTIONS

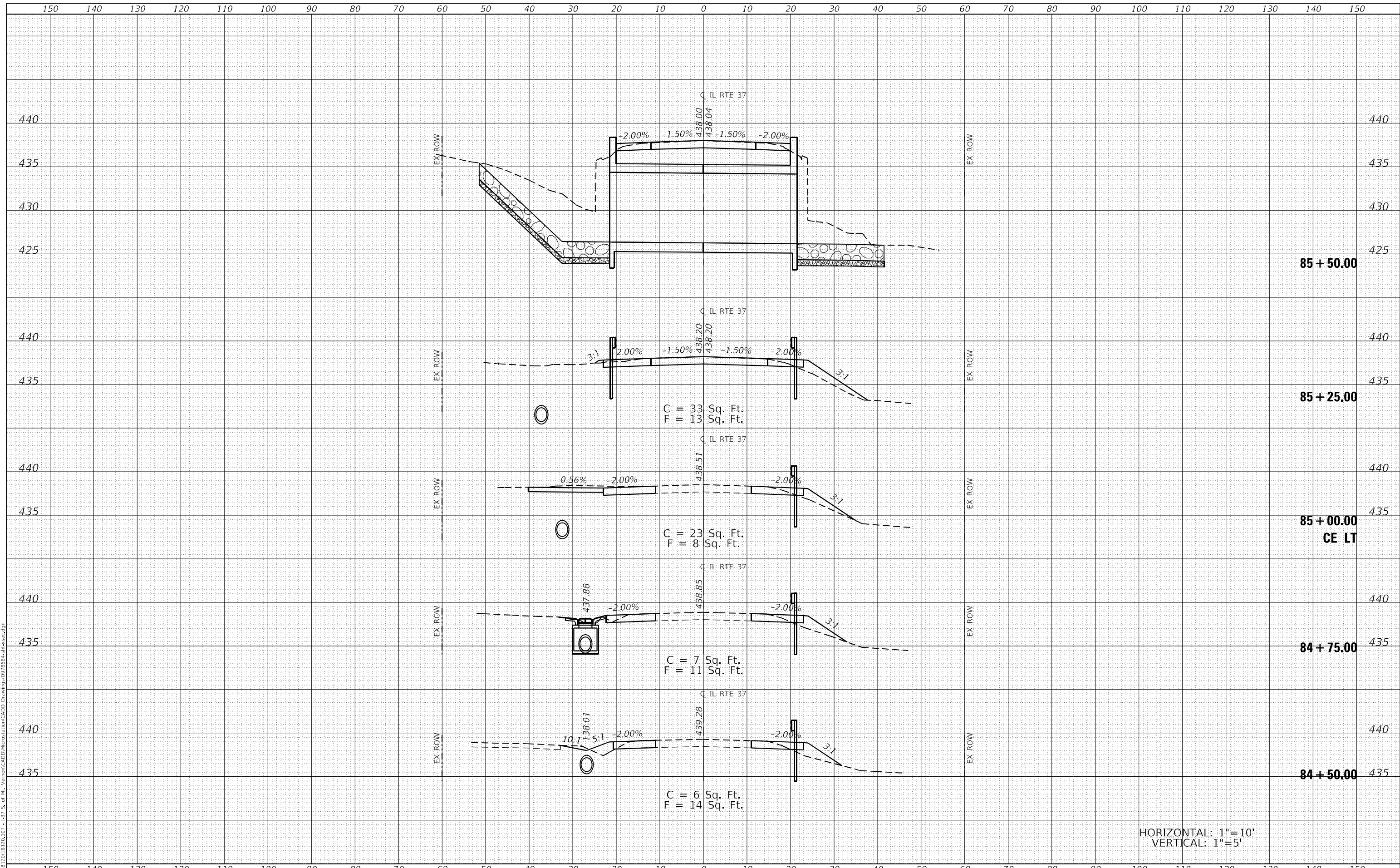
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

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 VERTICAL: 1"=5'



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CROSS SECTIONS

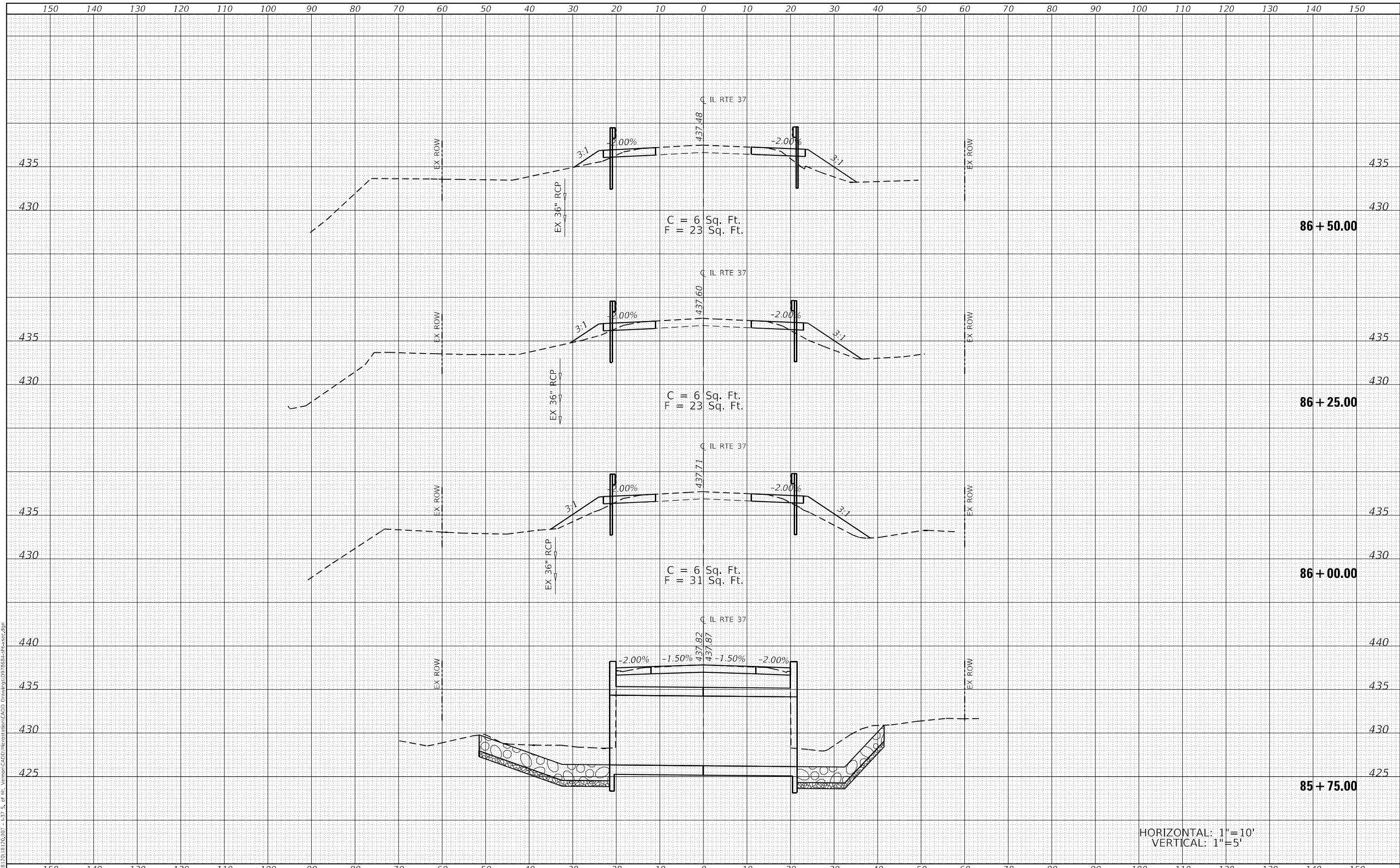
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO. 78684	
ILLINOIS			FED. AID PROJECT	

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HORIZONTAL: 1"=10'
 VERTICAL: 1"=5'



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 PLOT DATE = 3/18/2021

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

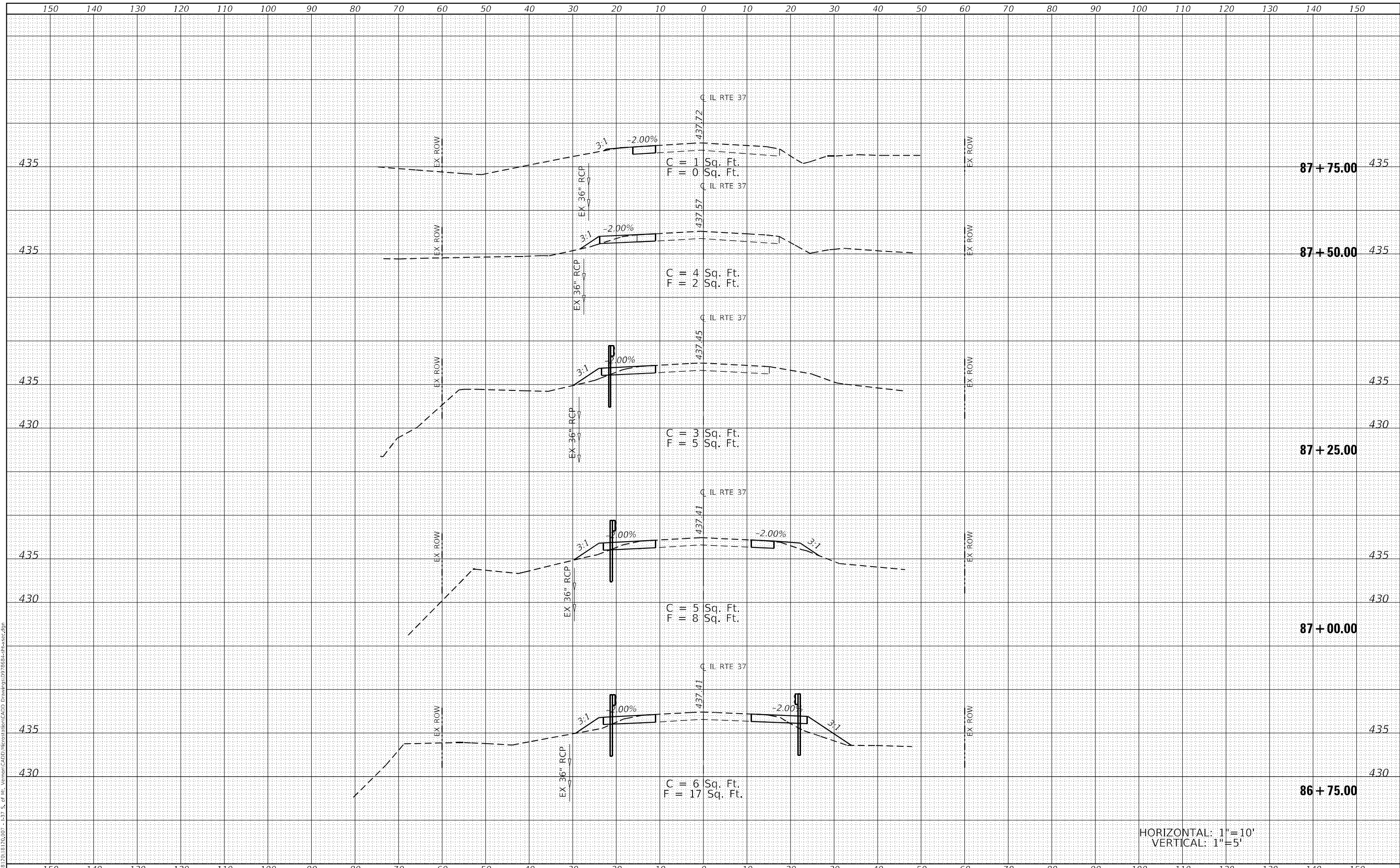
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 78684				
ILLINOIS FED. AID PROJECT				

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HORIZONTAL: 1"=10'
 VERTICAL: 1"=5'



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DATE	= 3/18/2021

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CROSS SECTIONS

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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT				