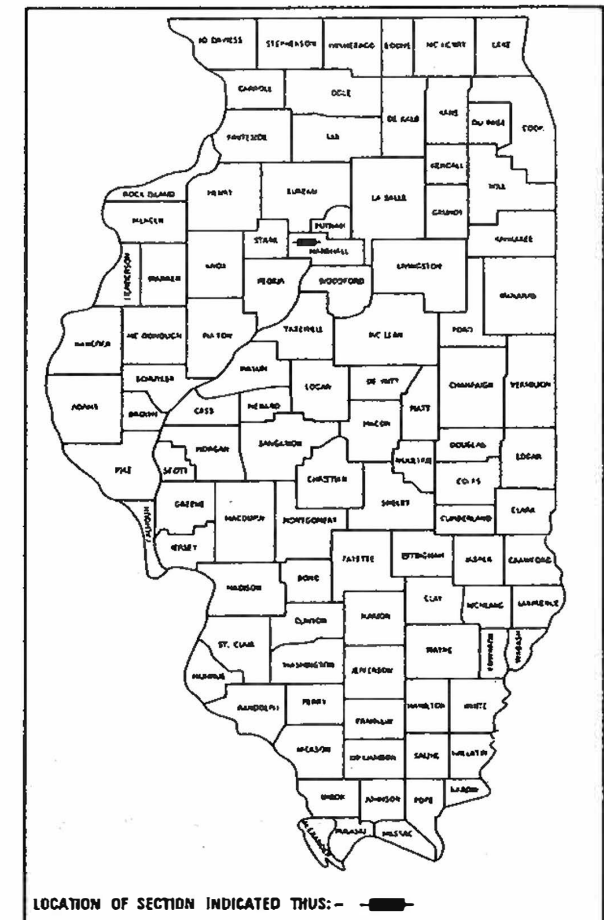


INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES, TYPICAL SECTIONS, DETAILS, PAVEMENT DESIGN INFORMATION, TIE POINTS
3	SUMMARY OF QUANTITIES
4	SCHEDULES OF QUANTITIES
5	TRAFFIC CONTROL PLAN
6	STORMWATER POLLUTION PREVENTION PLAN
7	PLAN AND PROFILE
8-19	STRUCTURE PLANS
20-28	CROSS SECTIONS

06/17/2022 LETTING ITEM 216

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
**PLANS FOR PROPOSED  
ILLINOIS SPECIAL BRIDGE PROGRAM  
MARSHALL COUNTY**  
SECTION 19-00102-00-BR  
**C.H. 8 OVER SENACHWINE CREEK**  
PROJECT NO. EGVZ(677)  
JOB NUMBER C-94-088-21

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	19-00102-00-BR	MARSHALL	28	1
FED. ROAD DIST. NO. 7		ILLINOIS	CONTRACT NO. 89813	



**HIGHWAY STANDARDS**

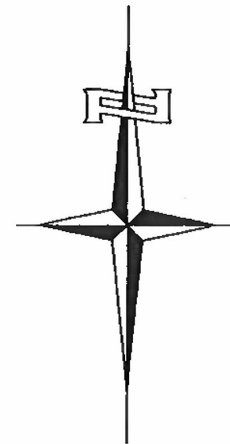
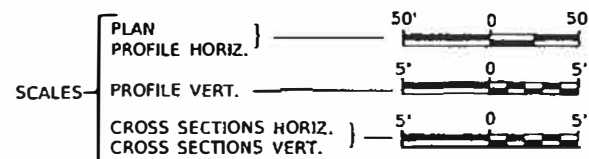
- 00001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 28001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 51501-04 NAME PLATE FOR BRIDGES
- 63031-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631032-09 TRAFFIC BARRIER TERMINAL, TYPE 6A
- 701901-08 TRAFFIC CONTROL DEVICES
- 725001-01 OBJECT AND TERMINAL MARKERS
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR 26-3 STEEL PLATE BEAM GUARDRAIL 29" (731mm) HEIGHT

**UTILITY COMPANIES**

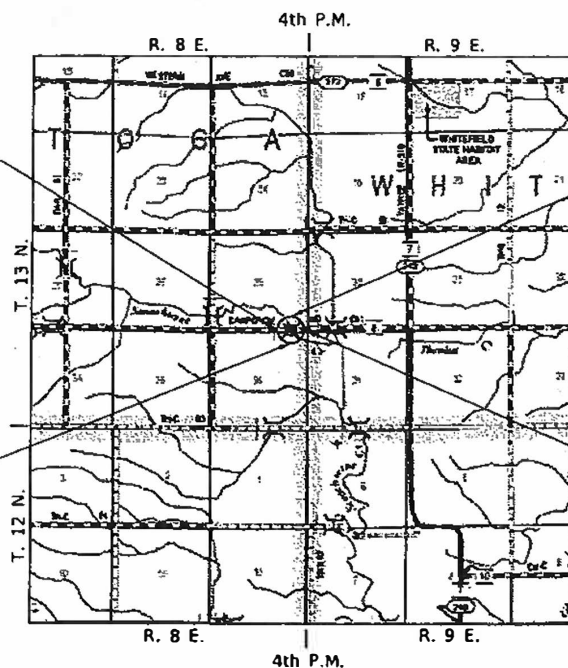
AMEREN ILLINOIS  
PEORIA, ILLINOIS

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

**CONTRACT NO. 89813**



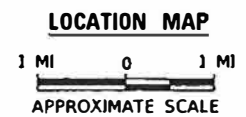
SECTION 19-00102-00-BR  
BEGINS  
STATION 16+50.00



EXISTING STRUCTURE SN 062-3127  
THREE SPAN PRECAST CONCRETE NELSON  
BEAM SUPERSTRUCTURE ON OPEN ABUTMENTS  
AND MULTICOLUMN CONCRETE PIERS ON  
SPREAD FOOTINGS. 75'-0" BK TO BK,  
26'-5" O TO O DECK, SKEWED 15° RT AH.  
(TO BE REMOVED)

PROPOSED STRUCTURE SN 062-3134  
THREE SPAN PPC DECK BEAM  
SUPERSTRUCTURE ON CONCRETE ENCASED  
PILE BENT PIERS AND CONCRETE SPILL-THRU  
ABUTMENTS. 113'-6" BK TO BK,  
30'-0" O TO O DECK, SKEW 20° RT AH.

SECTION 19-00102-00-BR  
ENDS  
STATION 29+00.00

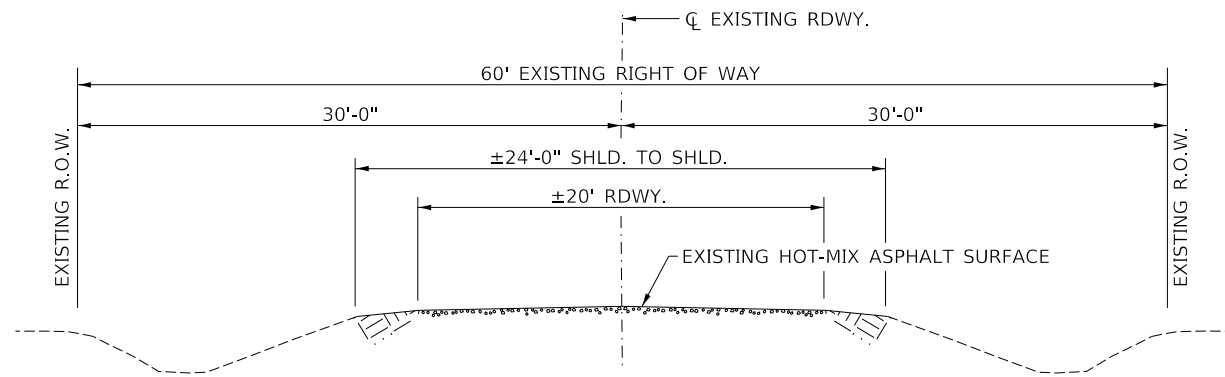


NET LENGTH OF PROJECT = 1,250.00 FEET = 0.237 MILES  
DESIGN CLASSIFICATION: MINOR COLLECTOR (NON-URBAN)  
DESIGN ADT = 140 (2022)  
DESIGN SPEED = 40 MPH

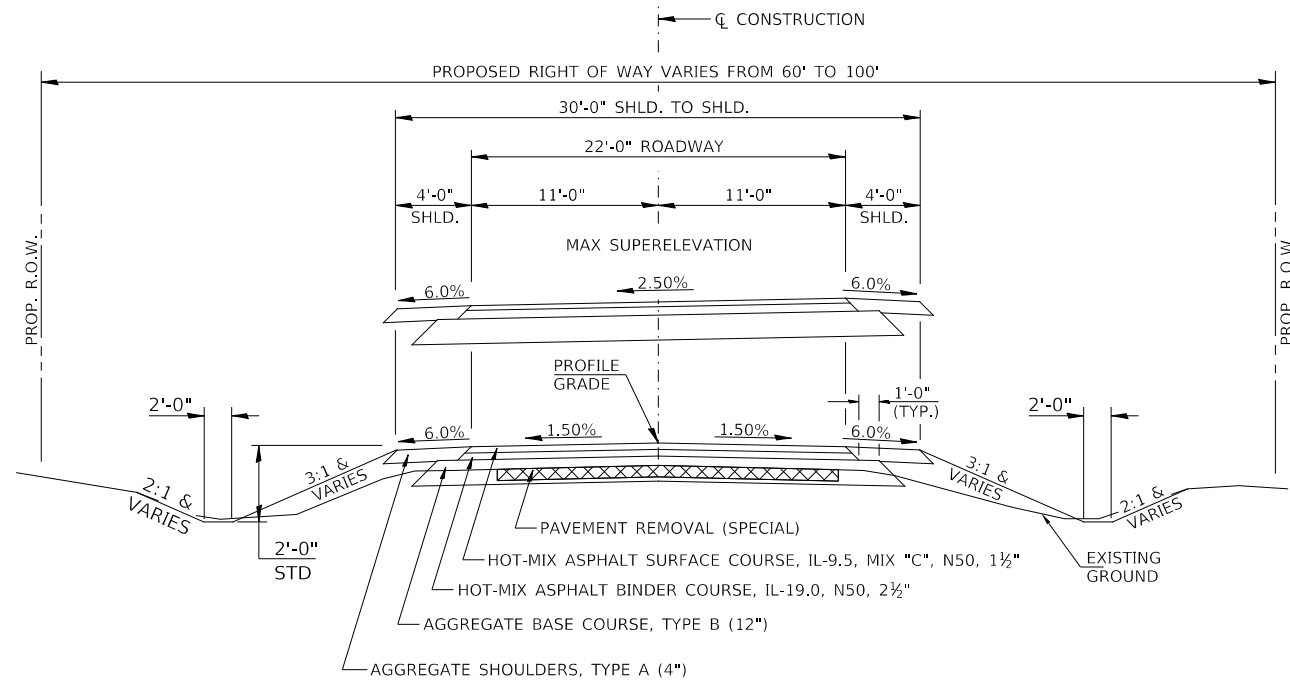
*Hutchison Engineering, Inc.*  
JACKSONVILLE-SHOREWOOD  
PEORIA-QUAD CITIES-CARBONDALE  
2022 JOB#4742

DATE: 3/31/22  
  
SIGNATURE  
ENGINEERS SEAL

APPROVED <u>March 31,</u> 2022 <u>Pat G. G.</u> MARSHALL COUNTY ENGINEER
PASSED <u>04-18</u> 2022 <u>[Signature]</u> DISTRICT FOUR ENGINEER OF LOCAL ROADS & STREETS
Released For Bid Based on Limited Review <u>April 18</u> 2022 <u>[Signature]</u> REGION THREE ENGINEER STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



**EXISTING TYPICAL SECTION**



**PROPOSED TYPICAL SECTION**

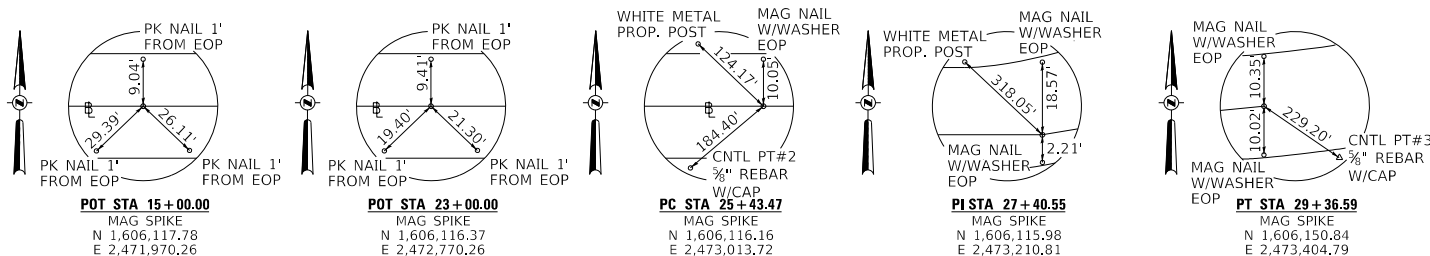
CONSTRUCT GUARDRAIL  
SHOULDER WIDENING IN  
ACCORDANCE WITH STD 630301

STA. 16+50.00 TO STA. 19+41.25  
STA. 20+54.75 TO STA. 29+00.00

EXCEPT TRANSITIONS AND SUPERELEVATION

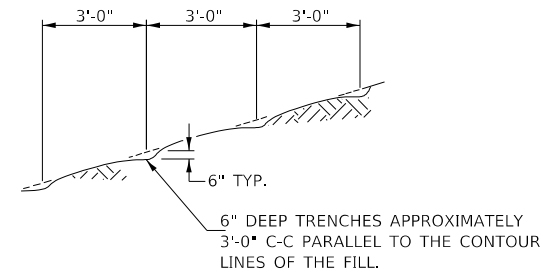
S.E. ATTAINED = STA 24+80.00 TO STA 25+55.00  
S.E. = TRANSITION PROPOSED SE TO EXISTING SE  
STA 28+50.00 TO STA 29+00.00

BRIDGE OMISSION  
STA. 19+41.25 TO STA. 20+54.75



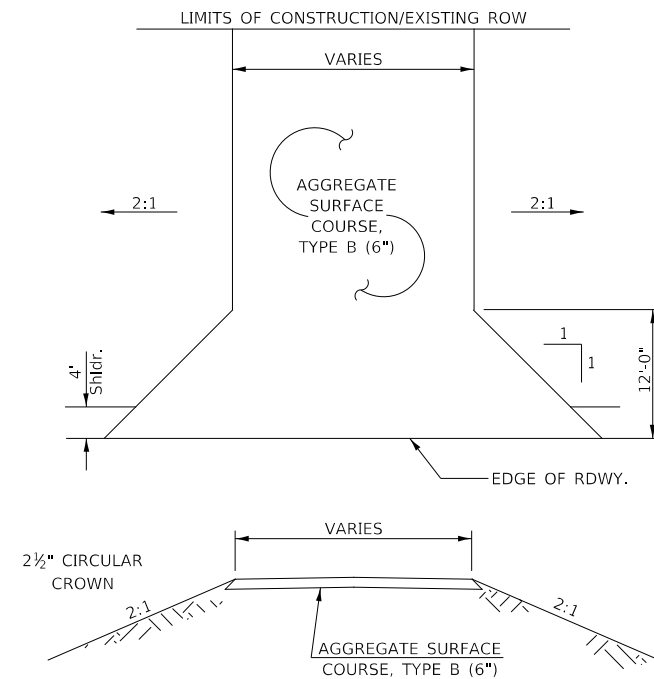
**COMMITMENTS**

THERE ARE NO COMMITMENTS FOR THIS PROJECT.



NOTE: ALL SLOPES 3:1 OR STEEPER AND GREATER THAN 5' IN HEIGHT SHALL BE CONTOUR PLOWED AS SHOWN IN DETAIL. COST SHALL BE INCLUDED WITH SEEDING, CLASS 2 (SPECIAL).

**DETAIL OF CONTOUR PLOWING**



**FIELD ENTRANCES**

STA 17+38 RT (18' WIDE)  
STA 17+54 LT (24' WIDE)  
STA 17+72 RT (18' WIDE)  
STA 21+87 LT (30' WIDE)

**STRUCTURAL DESIGN INFORMATION  
COUNTY HIGHWAY 8**

ROAD CLASSIFICATION: CLASS IV 80,000 lb./15 YEAR DESIGN  
STRUCTURAL DESIGN TRAFFIC:  
PV = 123 SU = 13 MU = 4  
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:  
P = 88% S = 9% M = 3%  
DESIGN E<sub>RT</sub>: 3 KSI  
ASPHALT PAVEMENT THICKNESS: 4"  
AGGREGATE BASE COURSE, TYPE B: 12"

**GENERAL NOTES**

ANY REMOVAL OF EXISTING GRAVEL OR CRUSHED STONE BASE COURSE WHICH MAY BE NECESSARY FOR THE CONSTRUCTION OF THE PROJECT SHALL BE REMOVED AS EARTH EXCAVATION AND NO COMPENSATION WILL BE ALLOWED FOR ADDITIONAL LABOR OR EQUIPMENT REQUIRED.

ALL WASTE OR UNDESIRABLE MATERIAL AS IDENTIFIED BY THE ENGINEER SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY AT THE CONTRACTOR'S EXPENSE.

ALL EXISTING PRIVATELY OWNED UTILITIES REQUIRING ADJUSTMENT WILL BE MADE BY THE UTILITY COMPANY INVOLVED. WHERE NO PROVISIONS HAVE BEEN MADE FOR ADJUSTMENTS ON THE PLANS, NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCES CAUSED BY THE SAID UTILITY ADJUSTMENTS.

THE PROFILE GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND IN THE STATION CROSS SECTIONS ARE TO THE TOP OF THE FINISHED SURFACE.

ALL EXISTING DRAINAGE STRUCTURES NOT BEING REMOVED BY THE CONTRACTOR THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST KNOWLEDGE OF THE COUNTY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL INDEMNIFY THE COUNTY, ITS OFFICERS AND EMPLOYEES AGAINST ALL CLAIMS DUE TO DAMAGE TO CORPORATE OR PRIVATE PROPERTY RESULTING FROM HIS CONSTRUCTION OPERATIONS AS DESCRIBED IN ARTICLES 107.20 AND 107.26 OF THE STANDARD SPECIFICATIONS.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

ALL ELEVATIONS SHOWN REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

	HMA BINDER	HMA SURFACE
PG GRADE:	PG 64-22	PG 58-28
DESIGN AIR VOIDS:	4% @ N50	4% @ N50
MIXTURE COMPOSITION:	IL-19.0	IL-9.5
FRICTION AGGREGATE:		MIXTURE C
DENSITY TEST METHOD:	NUCLEAR DENSITY GAUGE	NUCLEAR DENSITY GAUGE
MIXTURE WEIGHT:	112#/SQ YD/IN	112#/SQ YD/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A
LOCATION(S):	ENTIRE PROJECT	ENTIRE PROJECT

If RAP option is selected, the asphalt cement grade may need to be adjusted. This will be determined by the Engineer.

MODEL: 140821.MXD  
FILE NAME: C:\1742 - CH 8 over Senachwine Creek (Marshall)\CADD\CADD Sheets\1742-001.dgn

USER NAME = BNeibel	DESIGNED - MMO	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - MMO	REVISED -
PLOT DATE = 4/21/2022	CHECKED - JPS/BAN	REVISED -
	DATE - 3/25/2022	REVISED -

**MARSHALL COUNTY  
F.A.S. 625 (CH 8) OVER  
SENACHWINE CREEK**

**GENERAL NOTES, TYPICAL SECTIONS, DETAILS,  
PAVEMENT DESIGN INFORMATION, TIE POINTS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. 16+50.00 TO STA. 29+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	19-00102-00-BR	MARSHALL	28	2
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 89813	
FED. AID PROJECT NO. EGVZ(677)				

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	QUANTITY	CODE NO.	ITEM	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	12	50201102	COFFERDAM (TYPE 1) (LOCATION-2)	EACH	1
20200100	EARTH EXCAVATION	CU YD	550	50300225	CONCRETE STRUCTURES	CU YD	111.0
20300100	CHANNEL EXCAVATION	CU YD	1,000	50300280	CONCRETE ENCASMENT	CU YD	3.6
CS 20400800	FURNISHED EXCAVATION	CU YD	835	50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	3,338
SP 20700220	POROUS GRANULAR EMBANKMENT	CU YD	23.4	50800105	REINFORCEMENT BARS	POUND	9,300
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,200	+ 50901050	STEEL RAILING, TYPE SM	FOOT	227
28000305	TEMPORARY DITCH CHECKS	FOOT	120	51201400	FURNISHING STEEL PILES HP10X42	FOOT	846
28000400	PERIMETER EROSION BARRIER	FOOT	805	51202305	DRIVING PILES	FOOT	846
28000500	INLET AND PIPE PROTECTION	EACH	2	51203400	TEST PILE STEEL HP10X42	EACH	4
28100209	STONE RIPRAP, CLASS A5	TON	710	51500100	NAME PLATES	EACH	1
28200200	FILTER FABRIC	SQ YD	550	SP 542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	98
35100100	AGGREGATE BASE COURSE, TYPE A	TON	2,039	BDE 58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	378
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	104	58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	250
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	6,996	+ BDE 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
BDE 40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2,019	+ BDE 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
40600370	LONGITUDINAL JOINT SEALANT	FOOT	1,137	63200310	GUARDRAIL REMOVAL	FOOT	164
BDE 40603080	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N50	TON	396	67100100	MOBILIZATION	L SUM	1
BDE 40604050	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "C", N50	TON	281	+ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
48100100	AGGREGATE SHOULDERS, TYPE A	TON	237	+ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,540
SP 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	SP X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.2
50105220	PIPE CULVERT REMOVAL	FOOT	102	SP X4404400	PAVEMENT REMOVAL (SPECIAL)	SQ YD	2,775
50200100	STRUCTURE EXCAVATION	CU YD	90	SP X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
50200300	COFFERDAM EXCAVATION	CU YD	120	CS Z0013798	CONSTRUCTION LAYOUT	L SUM	1
50201101	COFFERDAM (TYPE 1) (LOCATION-1)	EACH	1	# BDE Z0076600	TRAINEES	HOUR	500
				# SP Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500

SP: SEE SPECIAL PROVISIONS  
 CS: SEE CHECK SHEET FOR RECURRING SPECIAL PROVISIONS  
 BDE: SEE BUREAU OF DESIGN AND ENVIRONMENT CHECK SHEET

CONSTRUCTION CODE TYPE: 0010

+ SPECIALTY ITEM  
 # 0042

MODEL: \\MODEL\MMF5  
 FILE NAME: \\C:\8 over Senachwine Creek - Marshall\CADD\CADD Sheets\4742-8001.dgn

USER NAME = BNebe1	DESIGNED - MMO	REVISED - _____	<b>MARSHALL COUNTY F.A.S. 625 (CH 8) OVER SENACHWINE CREEK</b>	<b>SUMMARY OF QUANTITIES</b>			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN - MMO	REVISED - _____	625					19-00102-00-BR	MARSHALL	28	3	
PLOT SCALE = 100,0000' / in.	CHECKED - JPS/BAN	REVISED - _____		SCALE: NONE			CONTRACT NO. 89813				
PLOT DATE = 4/19/2022	DATE - 3/25/2022	REVISED - _____		SHEET 1 OF 1 SHEETS	STA. 16+50.00 TO STA. 29+00.00	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NO. EGVZ(677)			

EARTHWORK SUMMARY						
STATION TO STATION	EARTH EXCAVATION	CHANNEL EXCAVATION	STRUCTURE EXCAVATION	COFFERDAM EXCAVATION	FILL	WASTE (SHORTAGE)
RDWY 16+50.00 - 19+41.25	261				394	(198)
RDWY 20+54.75 - 29+00.00	288				853	(637)
CHANNEL		1,000				
STRUCTURE			90			
COFFERDAM				120		
TOTAL	549	1,000	90	120	1,247	(835)
USE	550	1,000	90	120	-	(835)

(@ 25% SHRINKAGE)

PAINT PAVEMENT MARKING - LINE 4"				
STATION TO STATION	SIDE	DESCRIPTION	FOOT	
16+50.00 - 18+25.00	CENTER	YELLOW SKIP DASH	45	
18+25.00 - 27+00.00	CENTER	YELLOW SINGLE SOLID (RT) & YELLOW SKIP DASH (LT)	1,095	
27+00.00 - 29+00.00	CENTER	YELLOW DOUBLE SOLID	400	
TOTAL			1,540	

AGGREGATE SURFACE COURSE, TYPE B 140#/CF				
STATION	WIDTH	LENGTH	TON	
ENTR. - 17+38.00 RT	18' & VAR.	30.50'	24	
ENTR. - 17+54.00 LT	24' & VAR.	31.00'	31	
ENTR. - 17+72.00 RT	18' & VAR.	31.00'	24	
ENTR. - 21+87.00 LT	30' & VAR.	19.00'	25	
TOTAL			104	

PERIMETER EROSION BARRIER				
STATION TO STATION	SIDE	FOOT		
17+23 - 17+87	RIGHT	75		
17+37 - 17+71	LEFT	40		
20+61 - 26+50	RIGHT	610		
21+50 - 22+25	LEFT	80		
TOTAL		805		

PIPE CULVERT REMOVAL				
STATION	SIZE	SIDE	FOOT	
17+49	15"	LEFT	43	
17+50	15"	RIGHT	59	
TOTAL			102	

TEMPORARY DITCH CHECKS			
STATION	SIDE	FOOT	
16+90	RIGHT	12	
18+00	LEFT	12	
19+45	LEFT	12	
19+50	RIGHT	12	
20+35	LEFT	12	
23+50	LEFT	12	
24+50	RIGHT	12	
26+25	LEFT	12	
29+00	LEFT	12	
29+00	RIGHT	12	
TOTAL		120	

PAVEMENT SCHEDULE									
STATION TO STATION	WIDTH	LENGTH	AGGREGATE	BITUMINOUS	HOT-MIX	BITUMINOUS	HOT-MIX	LONGITUDINAL	
			BASE CSE, TYPE A 140#/CF	MATERIALS (PRIME COAT) 0.25LBS/SQ FT	ASPHALT BINDER CSE 112#/SQ YD/IN	MATERIALS (TACK COAT) 0.08LBS/SQ FT	ASPHALT SURFACE CSE 112#/SQ YD/IN		JOINT SEALANT
			TON	POUND	TON	POUND	TON	FOOT	
16+50.00 - 17+00.00	25.08' AVG.	50.00'	88						
17+00.00 - 19+41.25	25.67'	241.25'	434						
20+54.75 - 28+50.00	25.67'	795.25'	1,429						
28+50.00 - 29+00.00	25.15' AVG.	50.00'	88						
16+50.00 - 17+00.00	24.08' AVG.	50.00'		301					
17+00.00 - 19+41.25	24.67'	241.25'		1,488					
20+54.75 - 28+50.00	24.67'	795.25'		4,905					
28+50.00 - 29+00.00	24.15' AVG.	50.00'		302					
16+50.00 - 17+00.00	21.87' AVG.	50.00'			17				
17+00.00 - 19+41.25	22.46'	241.25'			84				
20+54.75 - 28+50.00	22.46'	795.25'			278				
28+50.00 - 29+00.00	21.95' AVG.	50.00'			17				
16+50.00 - 17+00.00	21.67' AVG.	50.00'				87			
17+00.00 - 19+41.25	22.25'	241.25'				429			
20+54.75 - 28+50.00	22.25'	795.25'				1,416			
28+50.00 - 29+00.00	21.74' AVG.	50.00'				87			
16+50.00 - 17+00.00	21.54' AVG.	50.00'					10	50.00	
17+00.00 - 19+41.25	22.13'	241.25'					50	241.25	
BRIDGE DECK		30.00'					47		
20+54.75 - 28+50.00	22.13'	795.25'					164	795.25	
28+50.00 - 29+00.00	21.61' AVG.	50.00'					10	50.00	
TOTAL			2,039	6,996	396	2,019	281	1,137	

PAVEMENT REMOVAL (SPECIAL)				
STATION TO STATION	WIDTH	LENGTH	SQ YD	
16+50.00 - 19+60.63	21.17' AVG.	310.63'	731	
20+34.53 - 29+00.00	21.26' AVG.	865.47'	2,044	
TOTAL			2,775	

PIPE CULVERTS, CLASS D, TYPE 1 15"			
STATION	SIDE	FOOT	
17+54	LEFT	34	
17+55	RIGHT	64	
TOTAL		98	

INLET AND PIPE PROTECTION			
STATION	SIDE	EACH	
17+23	RIGHT	1	
17+37	LEFT	1	
TOTAL		2	

AGGREGATE SHOULDERS, TYPE A 140#/CF					
STATION TO STATION	SIDE	WIDTH	LENGTH	TON	
16+50.00 - 17+00.00	LT	2.79' AVG.	50.00'	3	
16+50.00 - 17+00.00	RT	2.69' AVG.	50.00'	3	
17+00.00 - 17+32.00	LT	4.00'	32.00'	3	
17+00.00 - 17+19.00	RT	4.00'	19.00'	2	
17+76.00 - 18+08.29	LT	4.00'	32.29'	3	
17+91.00 - 18+19.21	RT	4.00'	28.21'	3	
18+08.29 - 18+38.29	LT	6.50' AVG.	30.00'	5	
18+19.21 - 18+49.21	RT	6.50' AVG.	30.00'	5	
18+38.29 - 18+73.29	LT	9.00'	35.00'	7	
18+49.21 - 18+84.21	RT	9.00'	35.00'	7	
18+73.29 - 18+98.29	LT	8.88' AVG.	25.00'	5	
18+84.21 - 19+09.21	RT	8.88' AVG.	25.00'	5	
18+98.29 - 19+11.82	LT	8.75'	13.53'	3	
19+09.21 - 19+25.50	RT	8.75'	16.29'	3	
19+11.82 - 19+36.38	LT	6.70' AVG.	24.56'	4	
19+25.50 - 19+46.19	RT	7.03' AVG.	20.69'	3	
20+49.81 - 20+70.50	LT	7.03' AVG.	20.69'	3	
20+59.62 - 20+84.18	RT	6.70' AVG.	24.56'	4	
20+70.50 - 20+86.79	LT	8.75'	16.29'	3	
20+84.18 - 20+97.71	RT	8.75'	13.53'	3	
20+86.79 - 21+11.79	LT	8.88' AVG.	25.00'	5	
20+97.71 - 21+22.71	RT	8.88' AVG.	25.00'	5	
21+11.79 - 21+46.79	LT	9.00'	35.00'	7	
21+22.71 - 21+57.71	RT	9.00'	35.00'	7	
21+46.79 - 21+62.92	LT	7.66' AVG.	16.13'	3	
21+57.71 - 21+87.71	RT	6.50' AVG.	30.00'	5	
21+87.71 - 28+50.00	RT	4.00'	662.29'	62	
22+12.00 - 28+50.00	LT	4.00'	638.00'	60	
28+50.00 - 29+00.00	LT	2.88' AVG.	50.00'	3	
28+50.00 - 29+00.00	RT	2.89' AVG.	50.00'	3	
TOTAL				237	

GUARDRAIL REMOVAL			
STATION TO STATION	SIDE	FOOT	
19+16 - 19+57	LT	41	
19+23 - 19+64	RT	41	
20+31 - 20+72	LT	41	
20+37 - 20+78	RT	41	
TOTAL		164	

TREE REMOVAL				
STATION	OFFSET	SIDE	6 TO 15 UNITS	
* 20+15	45'	LEFT	12	
TOTAL			12	

\*12" STUMP

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT			
STATION TO STATION	SIDE	EACH	
18+48.29 - 18+98.29	LT	1	
18+59.21 - 19+09.21	RT	1	
20+86.79 - 21+36.79	LT	1	
20+97.71 - 21+47.71	RT	1	
TOTAL		4	

TRAFFIC BARRIER TERMINAL, TYPE 6A			
STATION TO STATION	SIDE	EACH	
18+98.29 - 19+35.79	LT	1	
19+09.21 - 19+46.71	RT	1	
20+49.29 - 20+86.79	LT	1	
20+60.21 - 20+97.71	RT	1	
TOTAL		4	

MODEL: I:\MODEL\MARSHALL COUNTY\EGVZ\EGVZ172 - CH 8 OVER SENACHWINE CREEK\MARSHALL\CADD\CADD\_Sheets\172-2002.dwg

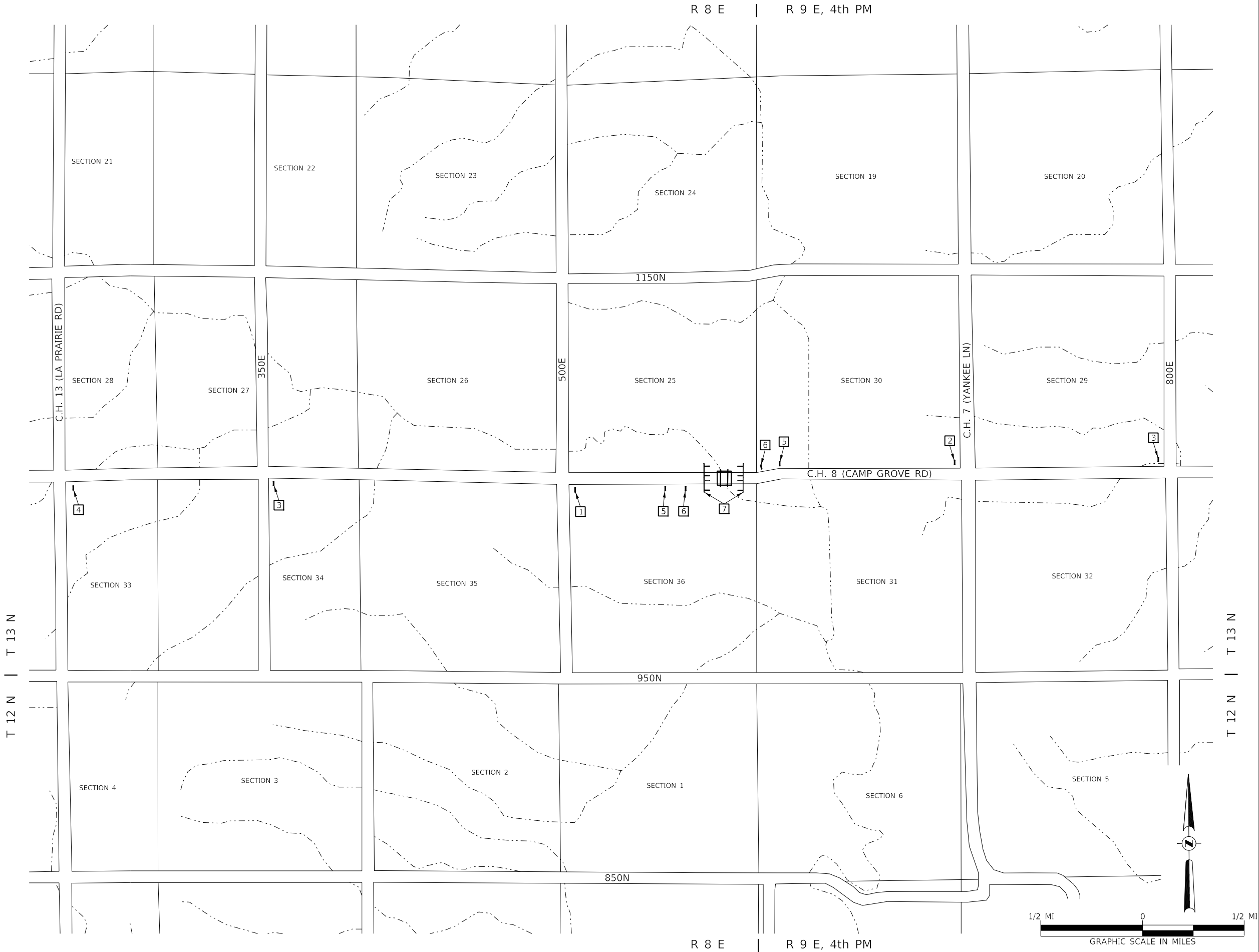
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PLOT DATE = 3/30/2022	DATE - 3/25/2022	REVISED - _____

**MARSHALL COUNTY  
F.A.S. 625 (CH 8) OVER  
SENACHWINE CREEK**

**SCHEDULES OF QUANTITIES**

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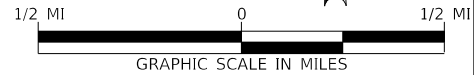
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625	19-00102-00-BR	MARSHALL	28	4
CONTRACT NO. 89813				
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. EGVZ(677)	



- 1 ROAD CLOSED 3/4 MILE AHEAD LOCAL TRAFFIC ONLY R11-3
- 2 ROAD CLOSED 1 1/4 MILE AHEAD LOCAL TRAFFIC ONLY R11-3
- 3 ROAD CLOSED 2 1/4 MILES AHEAD LOCAL TRAFFIC ONLY R11-3
- 4 ROAD CLOSED 3 1/4 MILES AHEAD LOCAL TRAFFIC ONLY R11-3

- 5 ROAD CLOSED AHEAD W20-3
- 6 ROAD CLOSED 500 FT W20-3
- 7 TYPE III BARRICADES

SEE STANDARD BLR 21 AND SPECIAL PROVISIONS



MODEL: \\MORDEL\NAME\FILE: 19-00102-00-01.dwg  
FILE NAME: 19-00102-00-01.dwg  
C:\8 over\_Senachwine\_Creek\Marshall\CADD\CADD\_Sheets\19-00102-00-01.dwg

USER NAME = MOgden	DESIGNED - MMO	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - MMO	REVISED -
PLOT DATE = 3/30/2022	CHECKED - JPS/BAN	REVISED -
	DATE - 3/24/2022	REVISED -

**MARSHALL COUNTY  
F.A.S. 625 (CH 8) OVER  
SENACHWINE CREEK**

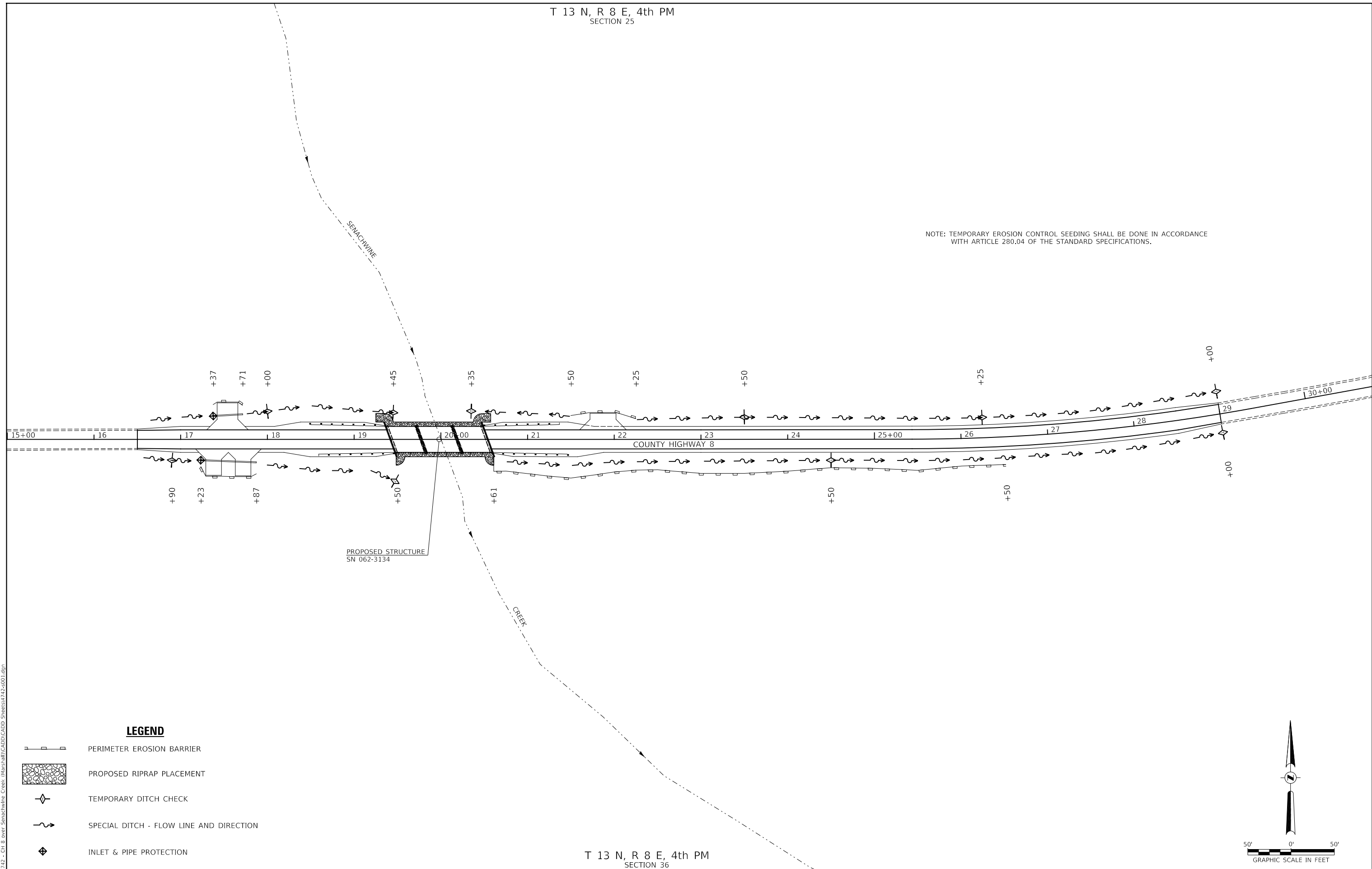
**TRAFFIC CONTROL PLAN**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. 16+50.00 TO STA. 29+00.00

F.A.S. RTE. 625	SECTION 19-00102-00-BR	COUNTY MARSHALL	TOTAL SHEETS 28	SHEET NO. 5
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 89813	
FED. AID PROJECT NO. EGVZ(677)				



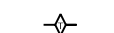
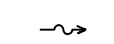

T 13 N, R 8 E, 4th PM  
SECTION 25

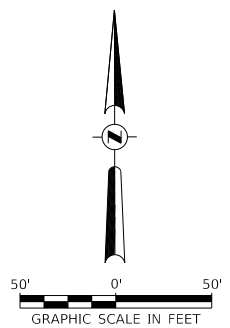
NOTE: TEMPORARY EROSION CONTROL SEEDING SHALL BE DONE IN ACCORDANCE WITH ARTICLE 280.04 OF THE STANDARD SPECIFICATIONS.



PROPOSED STRUCTURE  
SN 062-3134

**LEGEND**

-  PERIMETER EROSION BARRIER
-  PROPOSED RIPRAP PLACEMENT
-  TEMPORARY DITCH CHECK
-  SPECIAL DITCH - FLOW LINE AND DIRECTION
-  INLET & PIPE PROTECTION



T 13 N, R 8 E, 4th PM  
SECTION 36

**MARSHALL COUNTY  
F.A.S. 625 (CH 8) OVER  
SENACHWINE CREEK**

**STORMWATER POLLUTION  
PREVENTION PLAN**

USER NAME = MOgden	DESIGNED - MMO	REVISED - _____
PLOT SCALE = 100,0000' / in.	DRAWN - MMO	REVISED - _____
PLOT DATE = 3/30/2022	CHECKED - JPS/BAN	REVISED - _____
	DATE - 3/25/2022	REVISED - _____

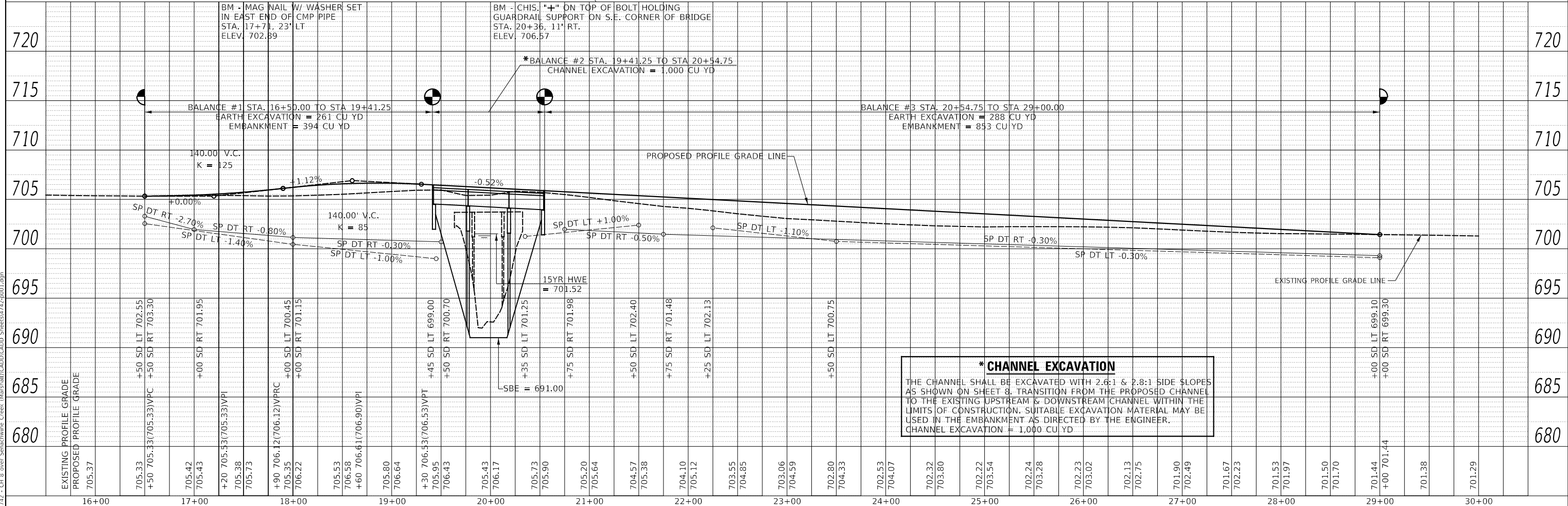
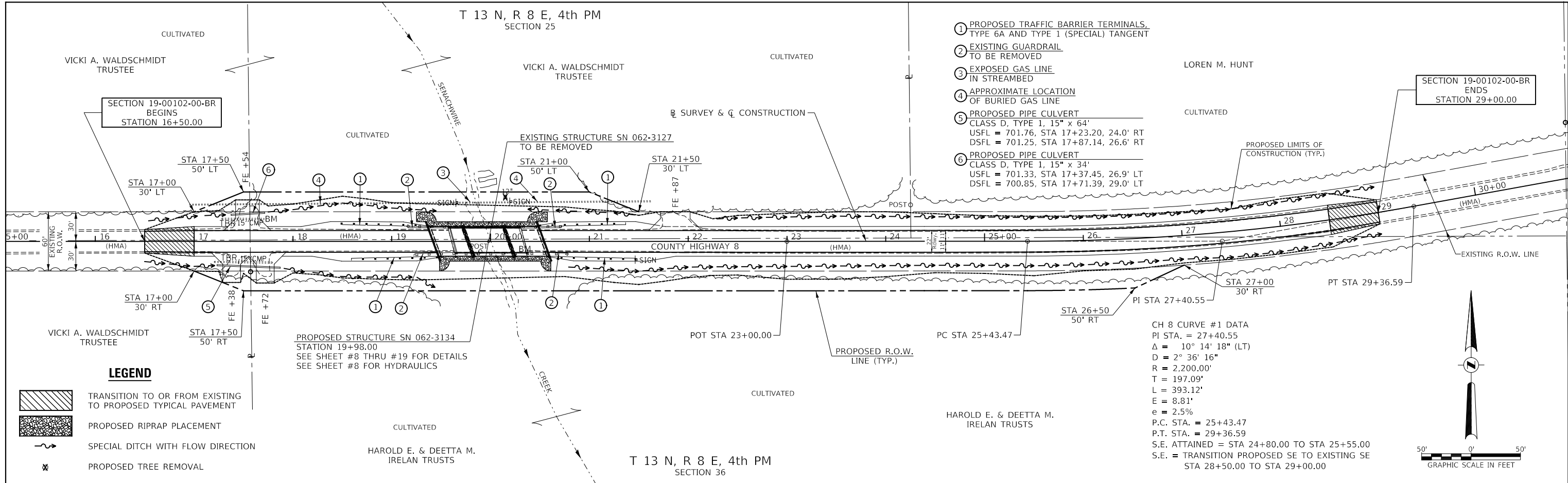
SCALE: 1"=50'    SHEET 1 OF 1 SHEETS    STA. 16+50.00 TO STA. 29+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	19-00102-00-BR	MARSHALL	28	6
CONTRACT NO. 89813				
FED. ROAD DIST. NO. 7		ILLINOIS		
FED. AID PROJECT NO. EGVZ(677)				

MODEL: \\MOBILE\NAME\FILE: \\name: \\1742 - CH 8 over Senachwine Creek - Marshall\CADD\CADD Sheets\4742-001.dgn

DATE	
BY	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
NOTE BOOK NO.	
FILE NAME	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	
FILE NAME	
NO.	

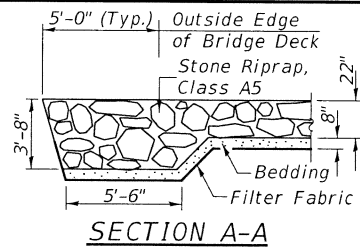


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B.M.: Mag Nail w/ Washer Set in East End of CMP Sta. 17+71, 23' Lt. Elev. 702.89  
 Chis. "+" on Top of Bolt Holding Guardrail Support on S.E. Corner of Bridge Sta. 20+36, 11' Rt. Elev. 706.57

Existing Structure:  
 Three span precast concrete Nelson beam superstructure on open abutments and multi-column concrete piers on spread footings. The structure is ±75'-0" back to back of abutments, ±26'-5" out to out of deck with a ±24'-4" drivable width, and is skewed 15° Rt. Ah. The structure was constructed in 1969. Str. No. 062-3127

Salvage: None  
 Road to be closed to traffic during construction.



SENACHWINE CREEK  
 BUILT 202 BY  
 MARSHALL COUNTY  
 SEC. 19-00102-00-BR  
 C.H. 8 STATION 19+98.00  
 F.A. PROJ. NO. EGVZ(677)  
 STR. NO. 062-3134 LOADING HL-93

NAME PLATE  
 Locate Name Plate at S.W. Wingwall Corner of Bridge (See Std. 515001)

**GENERAL NOTES**

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at the substructures specified or approved by the Engineer before ordering the remainder of the piles.  
 For Soil Boring Logs, See Special Provisions.  
 A Corrosion Inhibitor shall be used in the concrete for Precast Prestressed Concrete Deck Beams according to Article 1020.05(b)(10) and 1021.07 of the Standard Specifications.  
 Reinforcement Bars designated (E) shall be epoxy coated.  
 Layout of the slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.  
 The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.

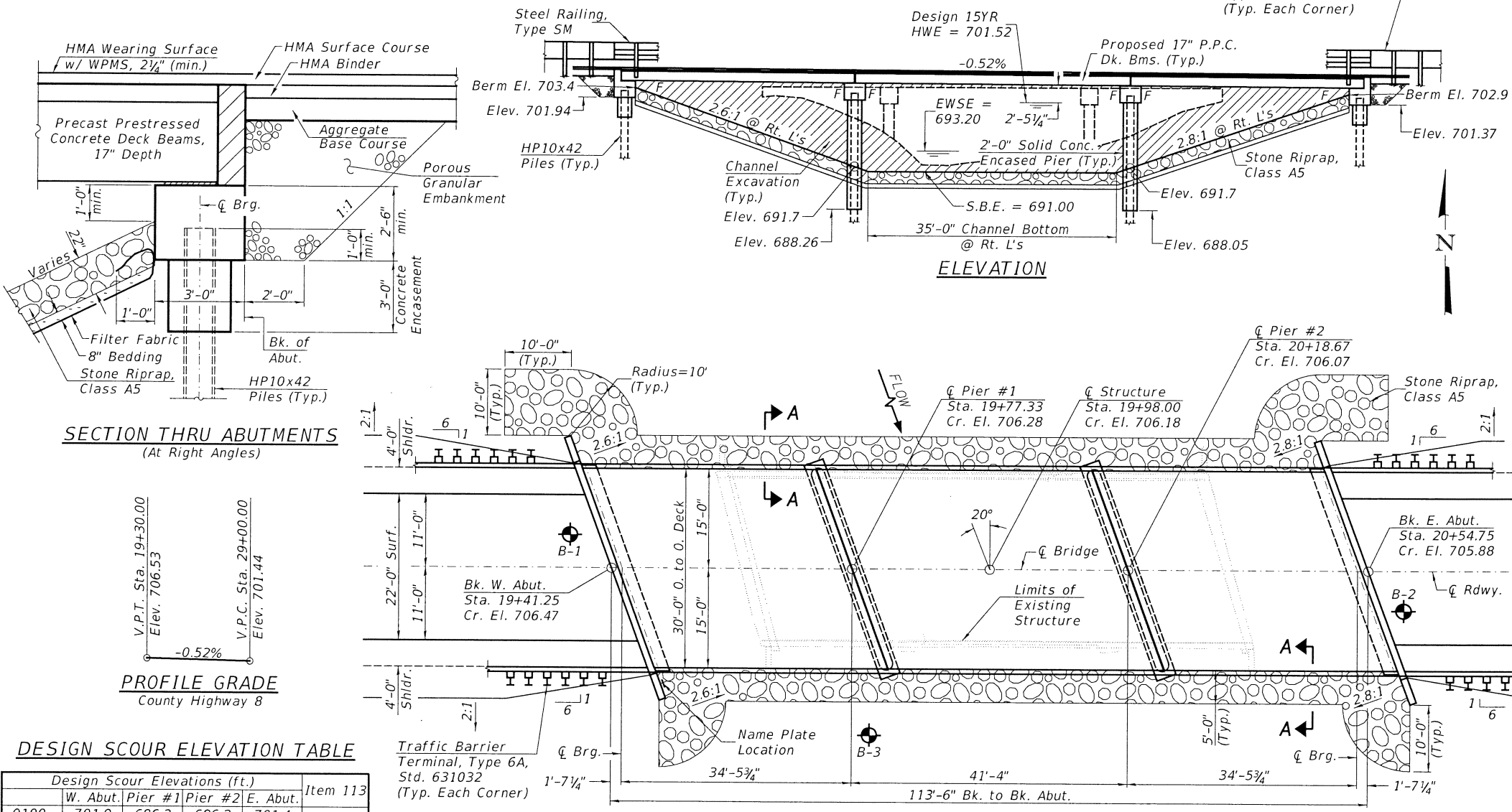
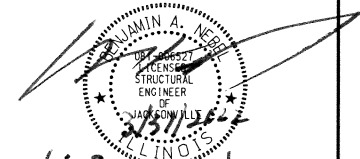
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	CU YD		1,000	1,000
① Porous Granular Embankment	CU YD		23.4	23.4
Stone Riprap, Class A5	TON		710	710
Filter Fabric	SQ YD		550	550
① Hot-Mix Asphalt Surface Course, IL-9.5, Mix "C", N50	TON	47		47
① Removal of Existing Structures	EACH			1
Structure Excavation	CU YD		90	90
Cofferdam Excavation	CU YD		120	120
Cofferdam (Type 1) (Location-1)	EACH		1	1
Cofferdam (Type 1) (Location-2)	EACH		1	1
Concrete Structures	CU YD		111.0	111.0
Concrete Encasement	CU YD		3.6	3.6
Precast Prestressed Concrete Deck Beams (17" Depth)	SQ FT	3,338		3,338
Reinforcement Bars	POUND		9,300	9,300
Steel Railing, Type SM	FOOT	227		227
Furnishing Steel Piles HP10x42	FOOT		846	846
Driving Piles	FOOT		846	846
Test Pile Steel HP10x42	EACH		4	4
Name Plates	EACH		1	1
① Waterproofing Membrane System	SQ YD	378		378
Portland Cement Mortar Fearing Course	FOOT	250		250

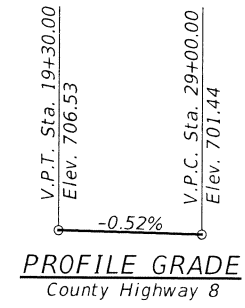
① See Special Provisions

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges. This design complies with all requirements of the current AASHTO Guide Specifications for Seismic Design of highway bridges.

*[Signature]*  
 Illinois Structural No. 6527  
 Expires 11/30/2022



**SECTION THRU ABUTMENTS**  
 (At Right Angles)



**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevations (ft.)					Item 113
	W. Abut.	Pier #1	Pier #2	E. Abut.	
Q100	701.9	686.2	686.2	701.4	8
Q200	701.9	686.1	686.1	701.4	
Design	701.9	686.2	686.2	701.4	
Check	701.9	686.1	686.1	701.4	

**WATERWAY INFORMATION**

Drainage Area = 10.67 Sq. Mi. Low Grade Elev. = 699.48 @ Sta. 34+90.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	15	1,887	316	627	701.52	0.26	0.14	701.78	701.66
Base	100	2,990	375	719	702.55	0.13	0.00	702.68	702.55

Construction of this project complies with IDNR, Office of Water Resources Statewide Permit No. 2

**OVER-THE-ROAD AREA**

Freq. Yr.	Exist.	Prop.
15	561	559
100	1,400	1,239

**DESIGN SPECIFICATIONS**

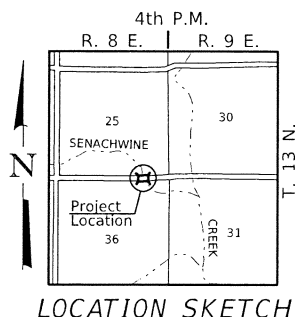
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

**LOADING HL-93**

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

**DESIGN STRESSES**

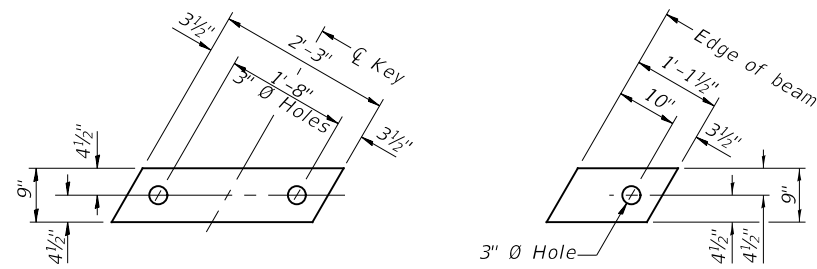
(FIELD UNITS)  
 $f'_c = 3,500$  p.s.i. (Substructure)  
 $f_y = 60,000$  p.s.i. (Rein.)  
 (PRECAST PRESTRESSED UNITS)  
 $f'_c = 6,000$  p.s.i.  
 $f_{ci} = 5,000$  p.s.i.  
 $f'_s = 270,000$  p.s.i. ( $1/2$ " Strands)  
 $f'_{si} = 201,960$  p.s.i. ( $1/2$ " Strands)



**GENERAL PLAN & ELEVATION**  
 F.A.S. 625 (CH 8) OVER  
 SENACHWINE CREEK  
 SECTION 19-00102-00-BR  
 MARSHALL COUNTY  
 STATION 19+98.00  
 STRUCTURE NO. 062-3134

MODEL FILE NAME:	USER NAME = MOgden	DESIGNED - ZL	REVISOR -	MARSHALL COUNTY		GENERAL PLAN & ELEVATION		F.A.S. RTE. 625	SECTION 19-00102-00-BR	COUNTY MARSHALL	TOTAL SHEETS 28	SHEET NO. 8
				F.A.S. 625 (CH 8) OVER SENACHWINE CREEK		SCALE: NONE	SHEET 1 OF 12 SHEETS					
4742-b001.dgn		DRAWN - JCW	REVISED -									
	PLOT SCALE = 100.0000' / in.	CHECKED - MMO/BAN	REVISED -									
	PLOT DATE = 3/30/2022	DATE - 3/24/2022	REVISED -									

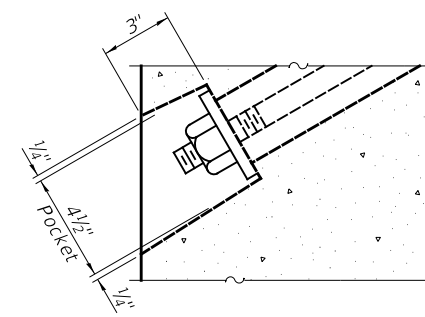




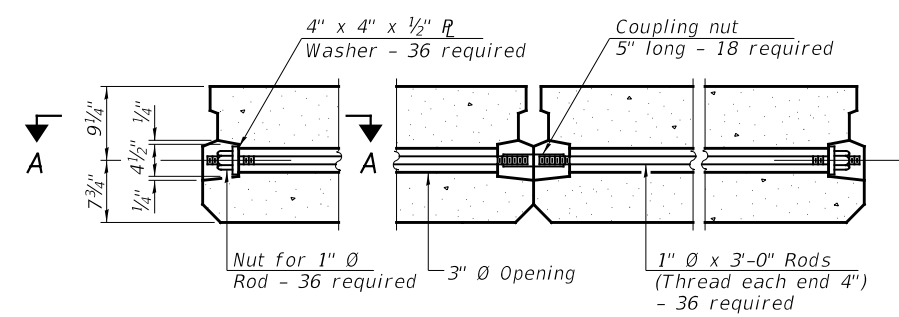
**1/2" FABRIC BEARING PAD**  
(Interior) 36 Required

**1/2" FABRIC BEARING PAD**  
(Exterior) 8 Required

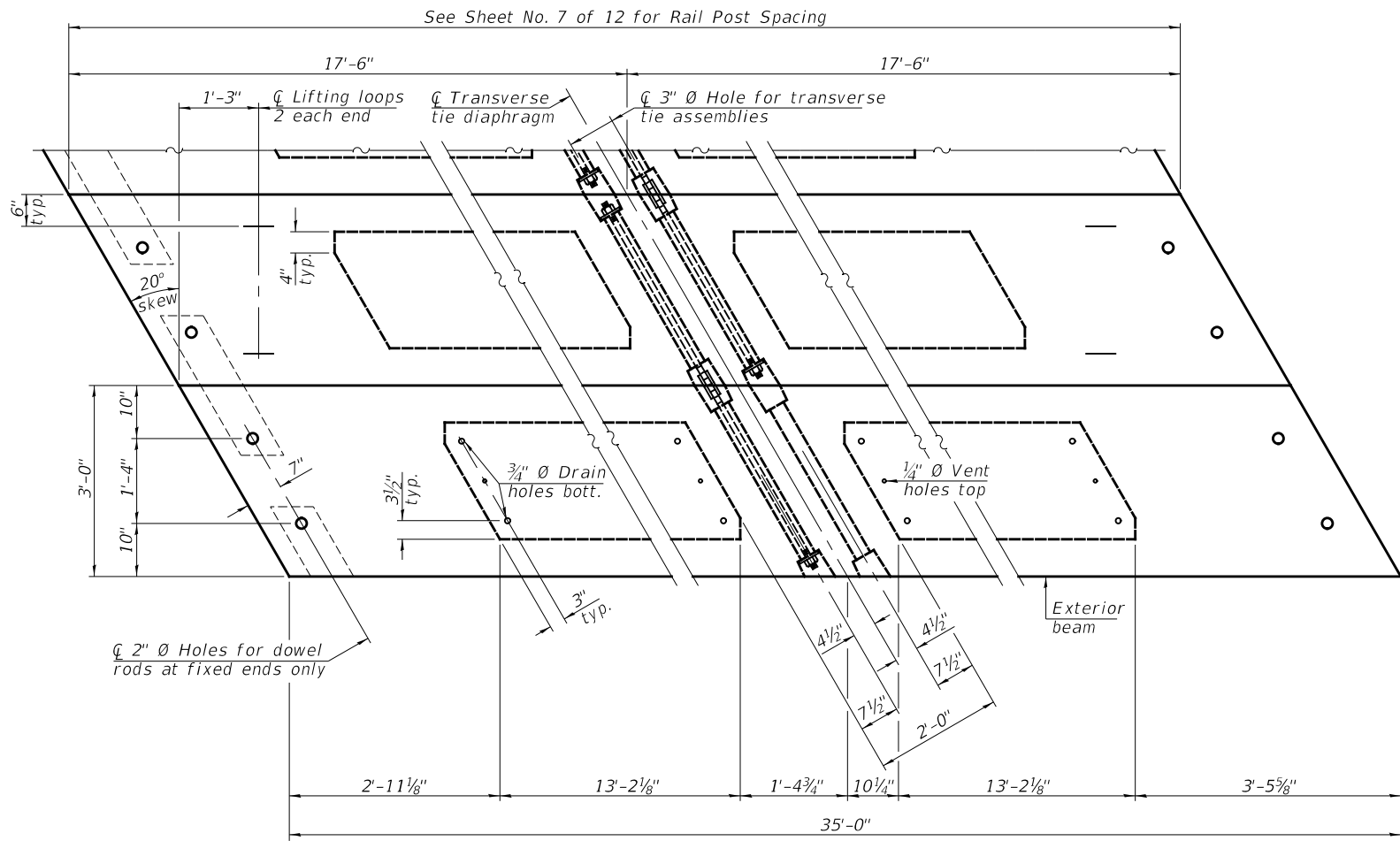
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**SECTION A-A**

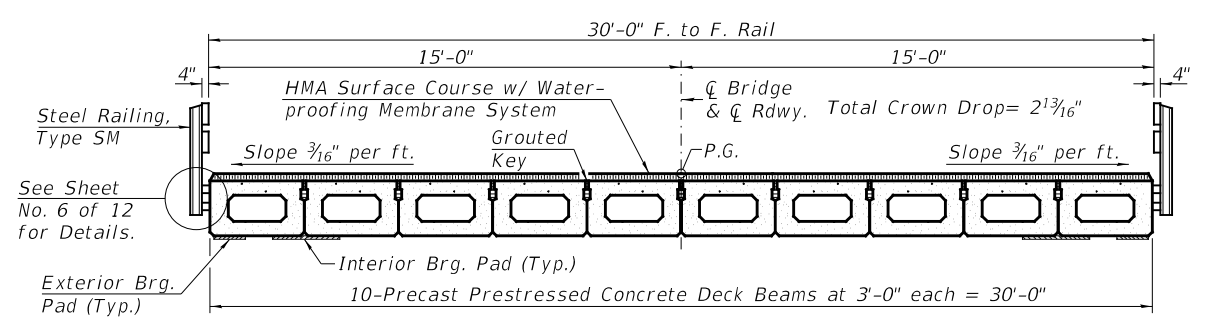


**TYPICAL TRANSVERSE TIE ASSEMBLY**



**PLAN VIEW**

Note:  
Connect beams in pairs with the transverse tie configuration shown.



**PROPOSED CROSS SECTION**

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Precast Prestressed Conc. Deck Bms. (17" Depth)	SQ FT	2,100

**NOTES**

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" Ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

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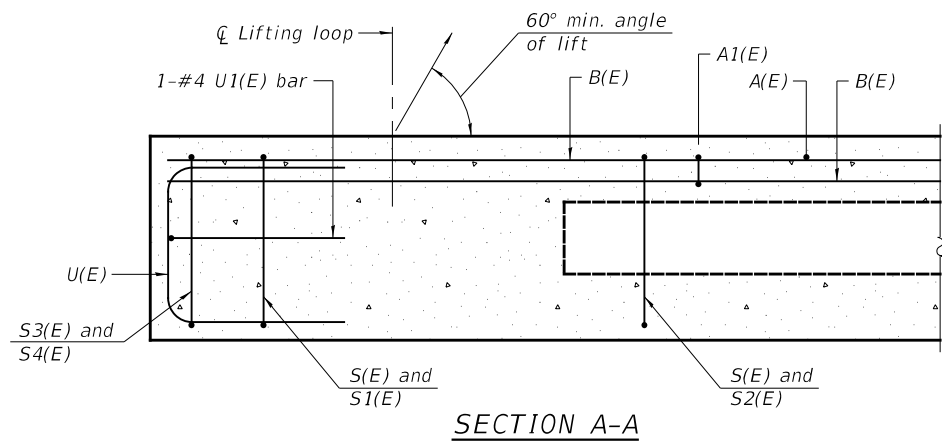
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PLOT DATE = 3/30/2022	CHECKED - MMO/BAN	REVISED -
	DATE - 3/24/2022	REVISED -

**MARSHALL COUNTY**  
**F.A.S. 625 (CH 8) OVER**  
**SENACHWINE CREEK**

**SUPERSTRUCTURE - SPANS 1 & 3**

SCALE: NONE SHEET 2 OF 12 SHEETS

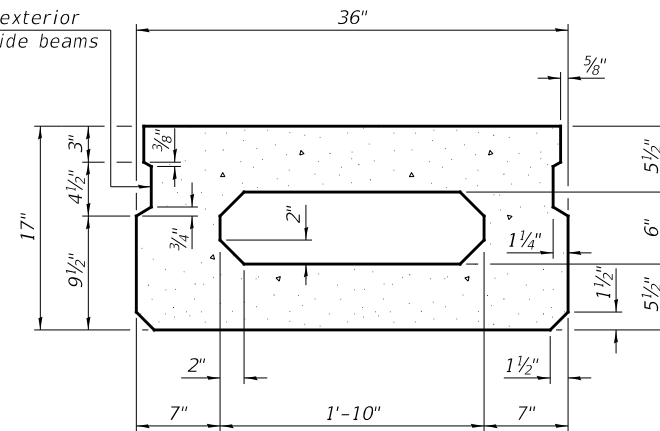
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SN 062-3134		CONTRACT NO. 89813		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NO. EGVZ(677)		



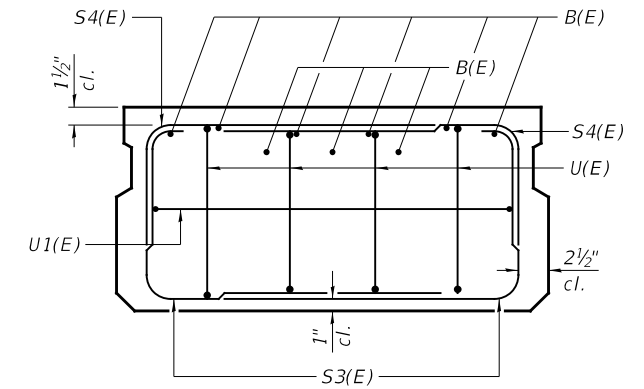
SECTION A-A

\*\* Rail post anchor devices (Sheet No. 6 of 12) to be cast into exterior face of outside beams.

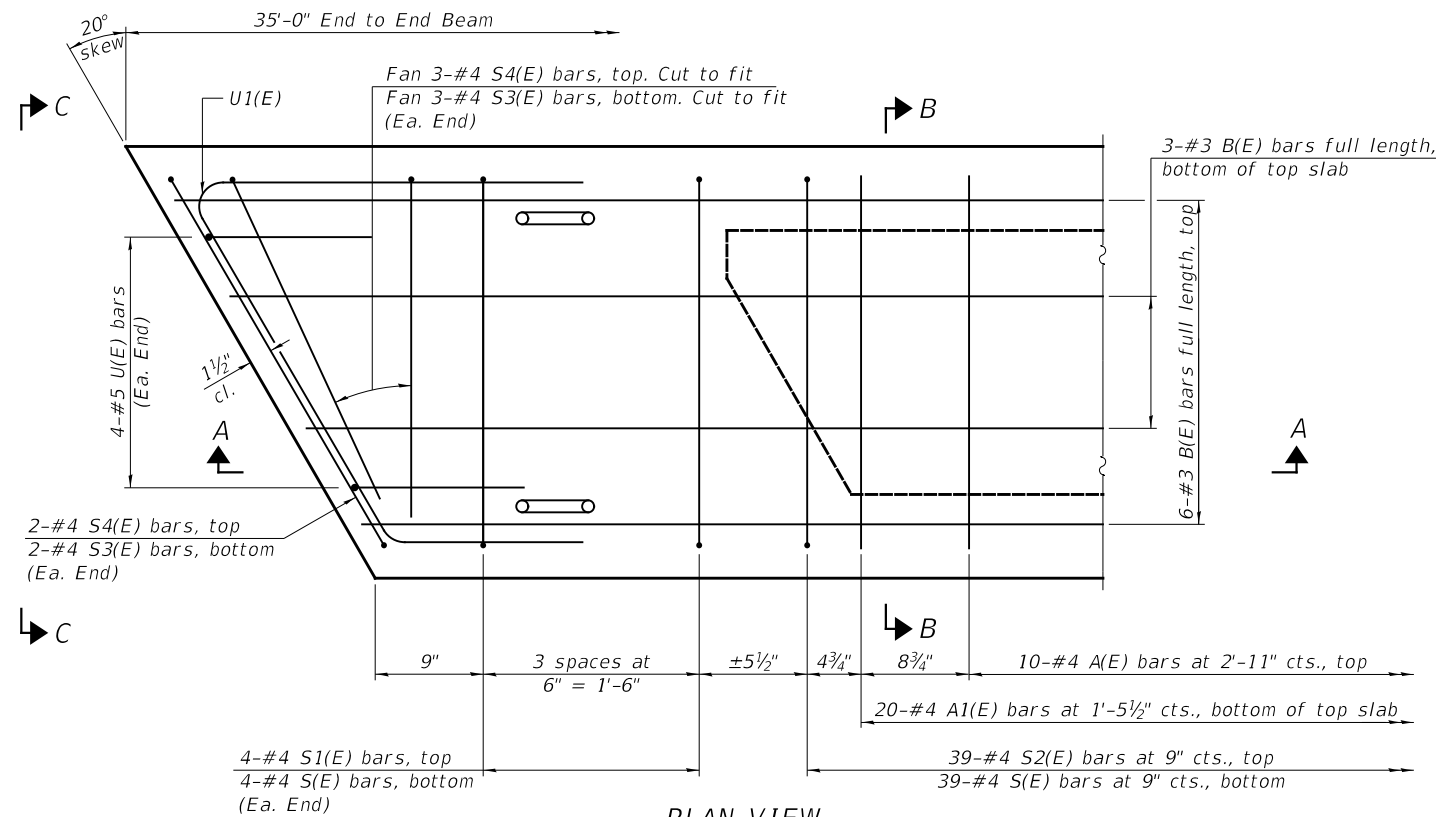
\*\* Omit key on exterior face of outside beams



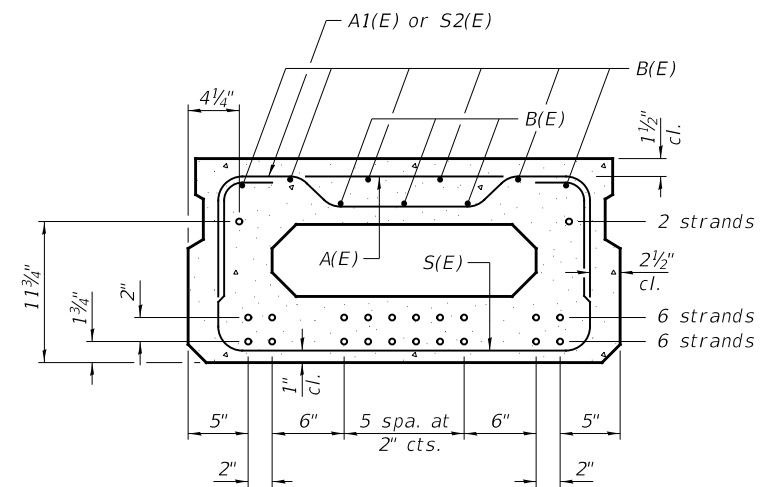
SECTION B-B  
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B

14-1/2" Ø Strands Each Strand Stressed to 30,900 Lbs.  
6-Strands 1 3/4" up, 6-Strands 3 3/4" up,  
2-Strands 11 3/4" up

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

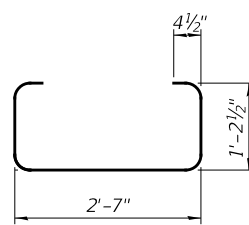
BAR LIST  
ONE BEAM ONLY  
(For information only)

BAR	NO.	SIZE	LENGTH	SHAPE
A(E)	20	#4	2'-7"	—
A1(E)	10	#4	2'-10"	~
B(E)	9	#3	34'-9"	—
S(E)	47	#4	5'-9"	⌊
S1(E)	8	#4	4'-3"	⌊
S2(E)	39	#4	4'-6"	⌊
S3(E)	10	#4	4'-4"	⌊
S4(E)	10	#4	3'-7"	⌊
U(E)	8	#5	3'-8"	⌊
U1(E)	2	#4	6'-1"	⌊

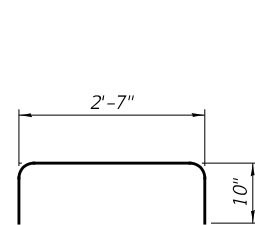
Note:  
See sheet 2 of 12 for additional details and Bill of Material.

MINIMUM BAR LAP  
#3 bar = 1'-6"

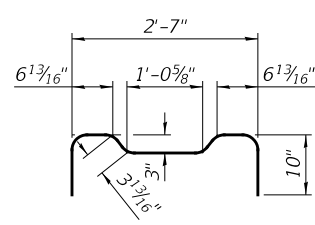
Note:  
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



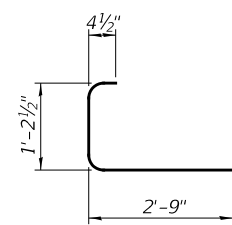
BAR S(E)



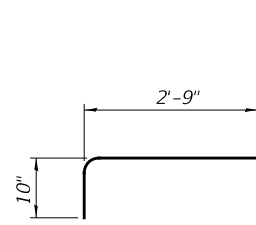
BAR S1(E)



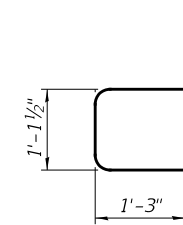
BAR S2(E)



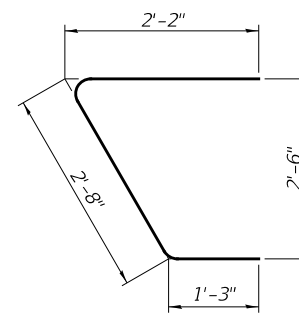
BAR S3(E)



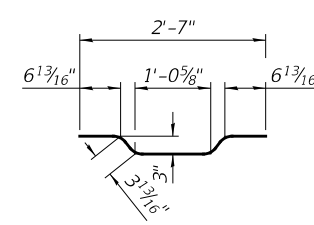
BAR S4(E)



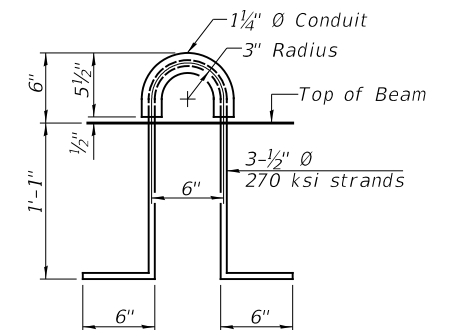
BAR U(E)



BAR U1(E)



BAR A1(E)



LIFTING LOOP DETAIL

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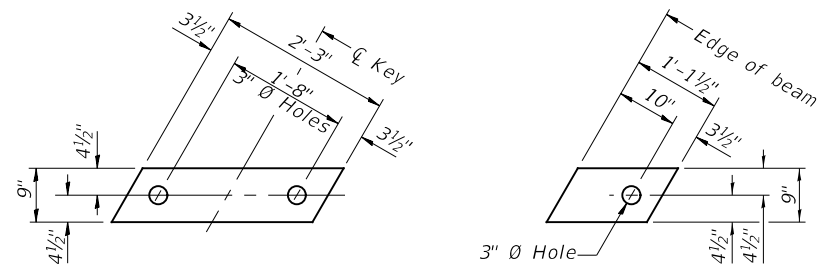
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DRAWN - JCW	REVISED -	
PLOT SCALE = 100.0000' / in.	CHECKED - MMO/BAN	REVISED -
PLOT DATE = 3/30/2022	DATE - 3/24/2022	REVISED -

MARSHALL COUNTY  
F.A.S. 625 (CH 8) OVER  
SENACHWINE CREEK

SCALE: NONE SHEET 3 OF 12 SHEETS

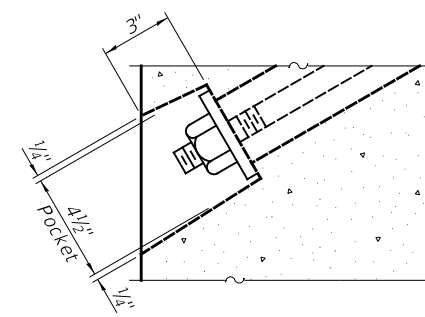
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625	19-00102-00-BR	MARSHALL	28	10
	SN 062-3134		CONTRACT NO. 89813	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NO. EGVZ(677)		



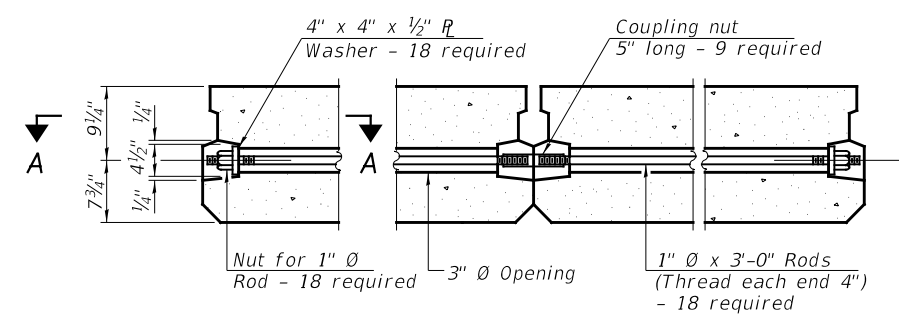
**1/2" FABRIC BEARING PAD**  
(Interior) 18 Required

**1/2" FABRIC BEARING PAD**  
(Exterior) 4 Required

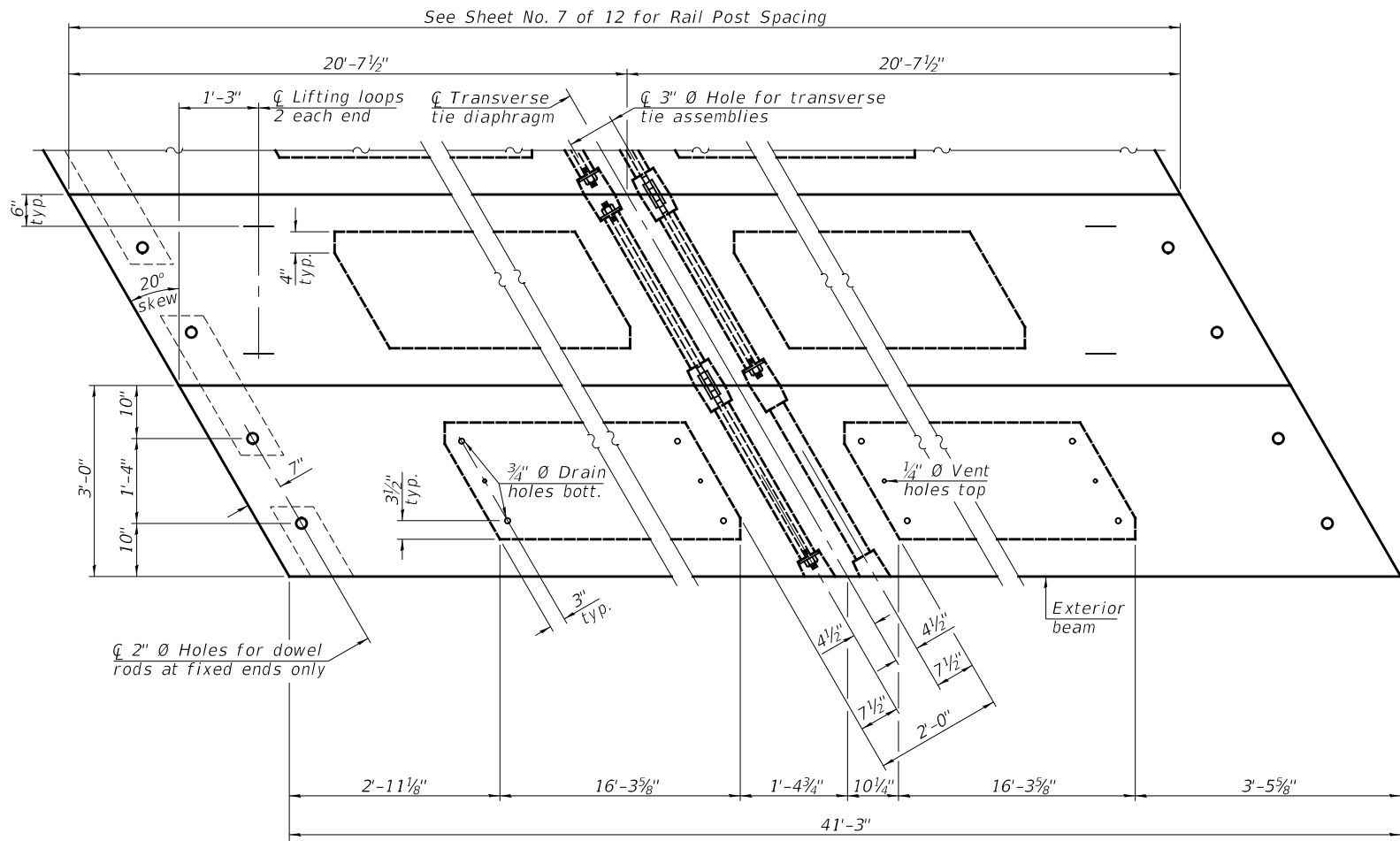
**FIXED**



**SECTION A-A**

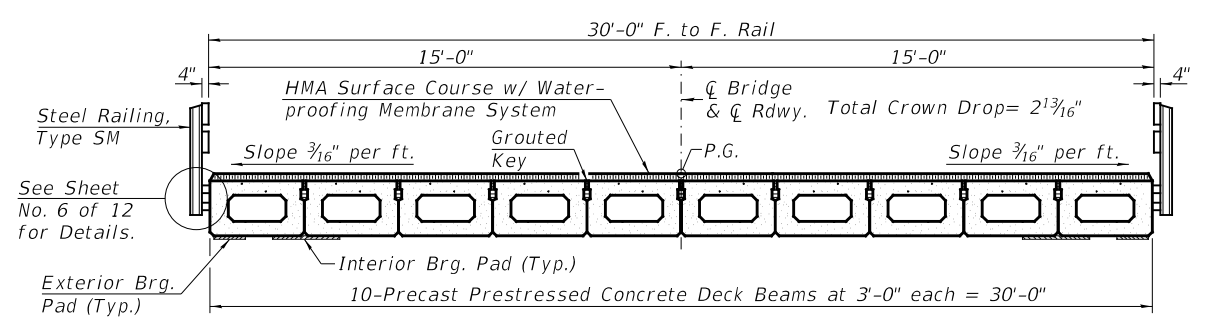


**TYPICAL TRANSVERSE TIE ASSEMBLY**



**PLAN VIEW**

Note:  
Connect beams in pairs with the transverse tie configuration shown.



**PROPOSED CROSS SECTION**

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Precast Prestressed Conc. Deck Bms. (17" Depth)	SQ FT	1,238

**NOTES**

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" diameter rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

MODEL FILE NAME:

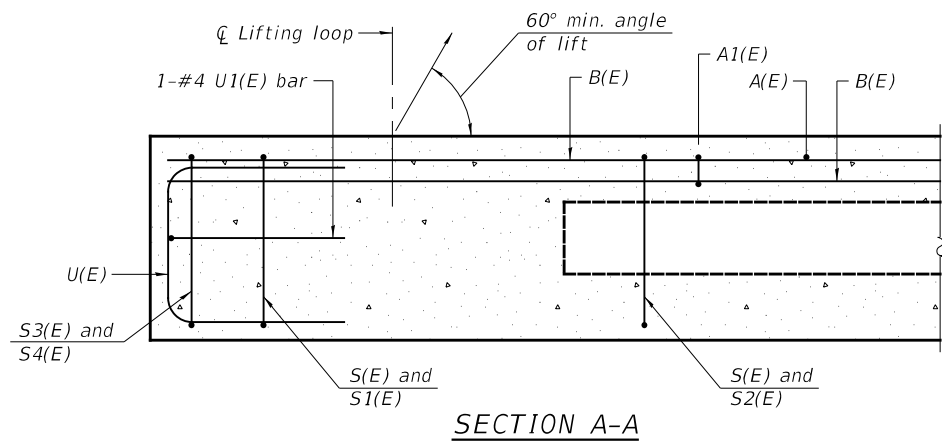
USER NAME = M0gden	DESIGNED - ZL	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - JCW	REVISED -
PLOT DATE = 3/30/2022	CHECKED - MMO/BAN	REVISED -
	DATE - 3/24/2022	REVISED -

**MARSHALL COUNTY**  
**F.A.S. 625 (CH 8) OVER**  
**SENACHWINE CREEK**

**SUPERSTRUCTURE - SPAN 2**

SCALE: NONE SHEET 4 OF 12 SHEETS

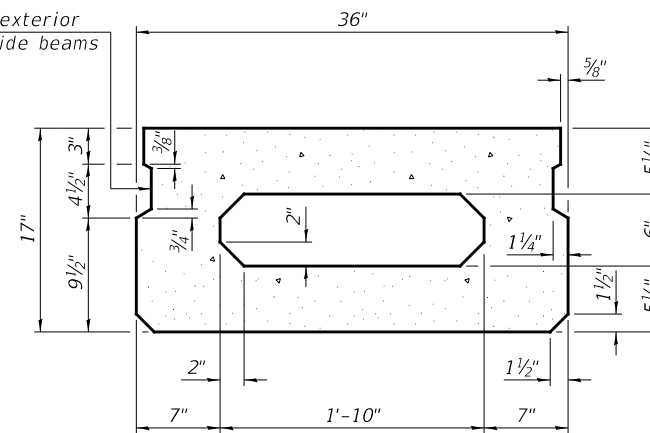
F.A.S. RTE. 625	SECTION 19-00102-00-BR	COUNTY MARSHALL	TOTAL SHEETS 28	SHEET NO. 11
SN 062-3134		CONTRACT NO. 89813		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NO. EGVZ(677)		



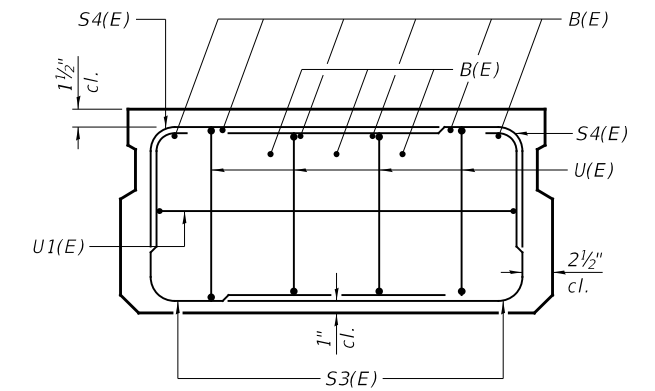
SECTION A-A

\*\* Rail post anchor devices (Sheet No. 6 of 12) to be cast into exterior face of outside beams.

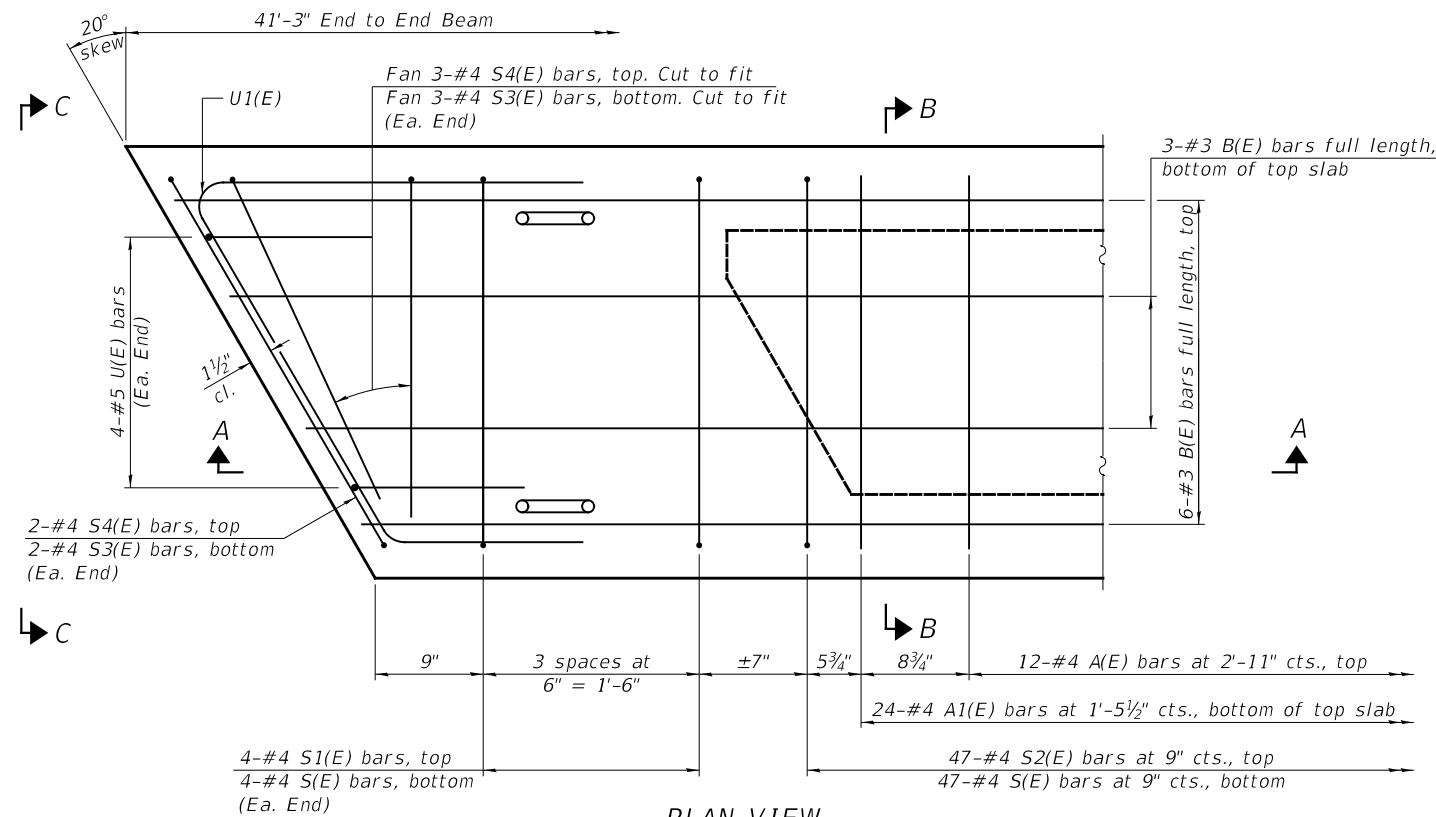
\*\* Omit key on exterior face of outside beams



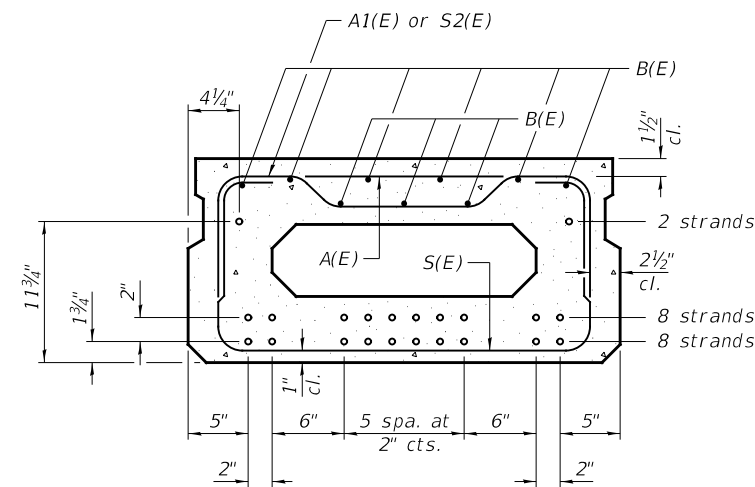
SECTION B-B  
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B

18-1/2" Ø Strands Each Strand Stressed to 30,900 Lbs.  
8-Strands 1 3/4" up, 8-Strands 3 3/4" up,  
2-Strands 11 3/4" up

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

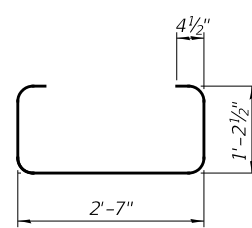
**BAR LIST**  
**ONE BEAM ONLY**  
(For information only)

BAR	NO.	SIZE	LENGTH	SHAPE
A(E)	12	#4	2'-7"	—
A1(E)	24	#4	2'-10"	~
B(E)	9	#3	41'-0"	—
S(E)	55	#4	5'-9"	⌋
S1(E)	8	#4	4'-3"	⌋
S2(E)	47	#4	4'-6"	⌋
S3(E)	10	#4	4'-4"	⌋
S4(E)	10	#4	3'-7"	⌋
U(E)	8	#5	3'-8"	⌋
U1(E)	2	#4	6'-1"	⌋

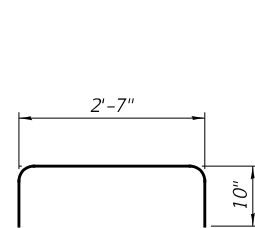
Note:  
See sheet 4 of 12 for additional details and Bill of Material.

**MINIMUM BAR LAP**  
#3 bar = 1'-6"

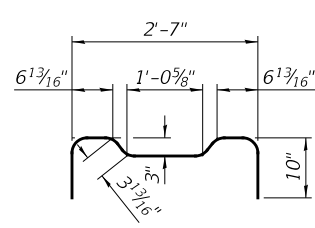
Note:  
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



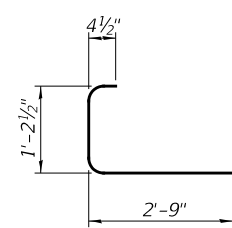
BAR S(E)



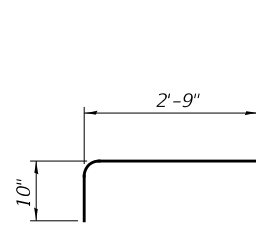
BAR S1(E)



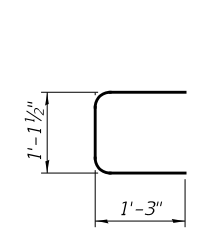
BAR S2(E)



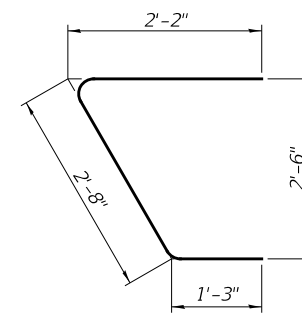
BAR S3(E)



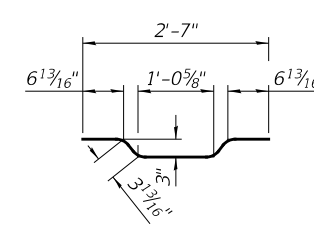
BAR S4(E)



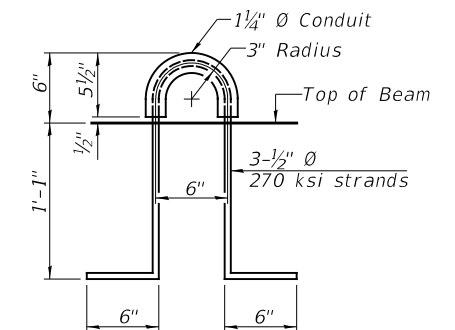
BAR U(E)



BAR U1(E)



BAR A1(E)

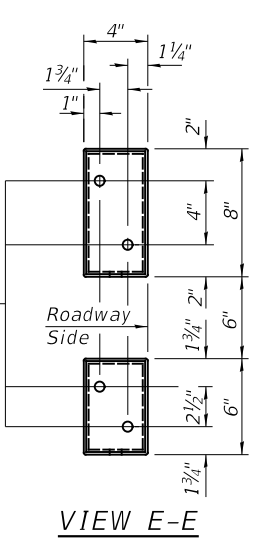
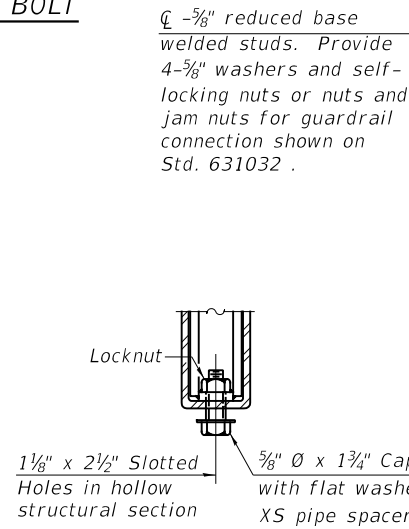
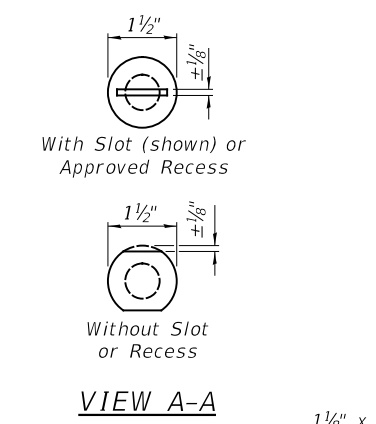
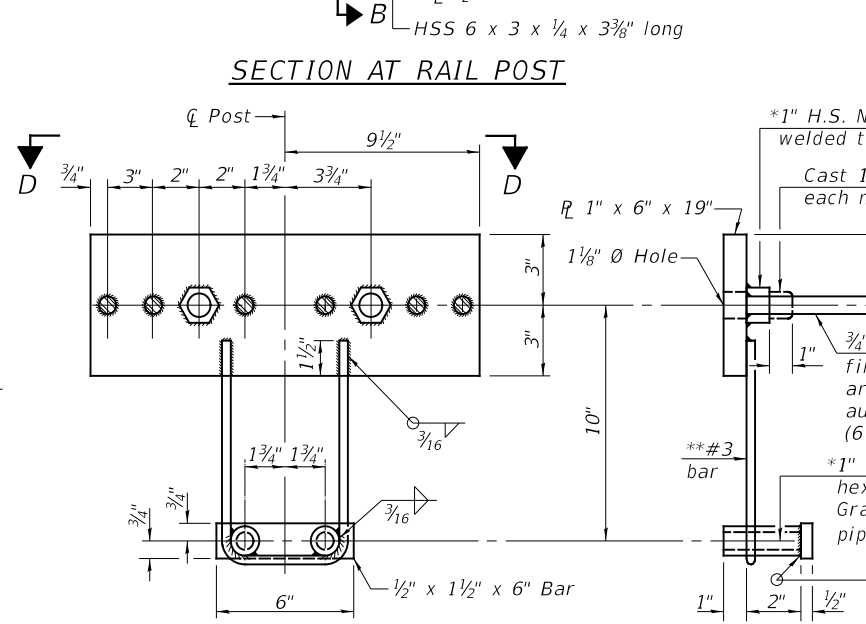
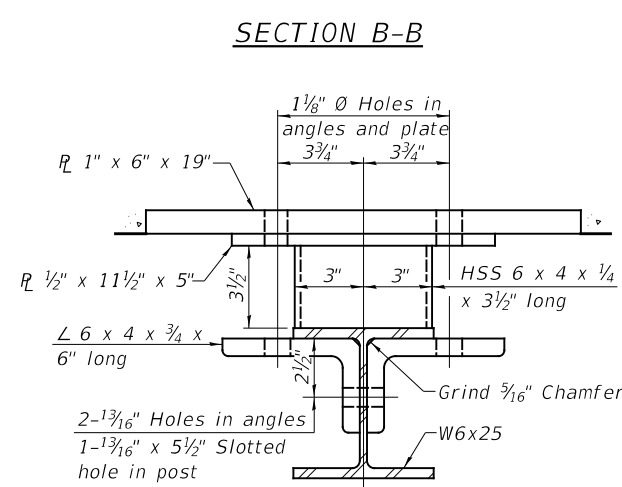
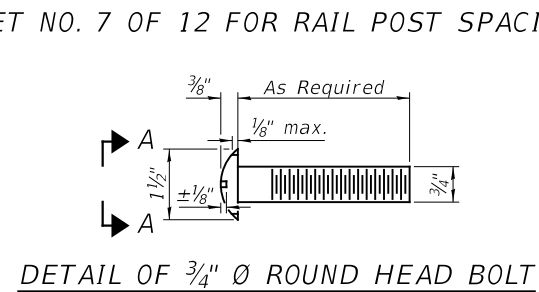
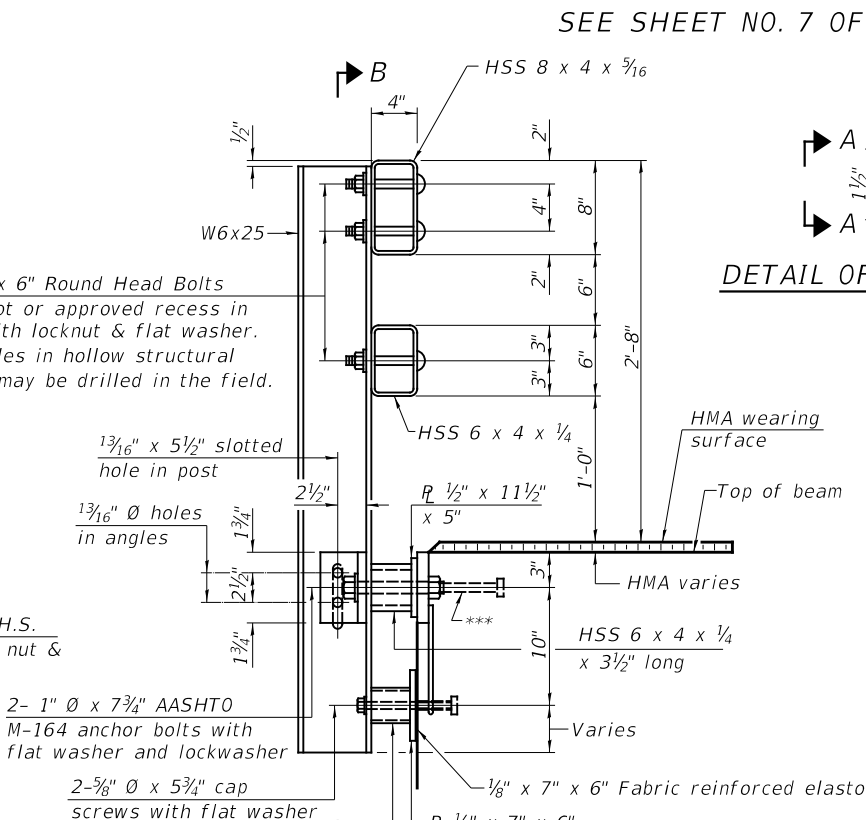
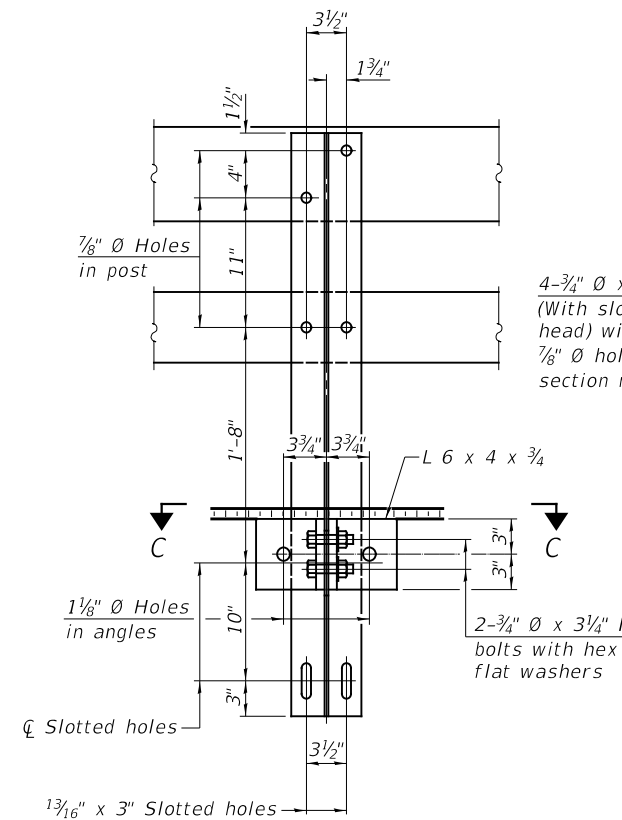


LIFTING LOOP DETAIL

USER NAME = M0gden	DESIGNED - ZL	REVISED -
DRAWN - JCW	REVISED -	
PLOT SCALE = 100.0000' / in.	CHECKED - MMO/BAN	REVISED -
PLOT DATE = 3/30/2022	DATE - 3/24/2022	REVISED -

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	19-00102-00-BR	MARSHALL	28	12
	SN 062-3134			CONTRACT NO. 89813
	FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. EGVZ(677)

SEE SHEET NO. 7 OF 12 FOR RAIL POST SPACING.



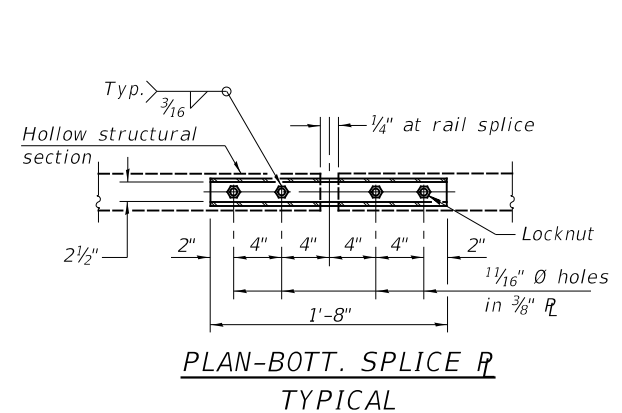
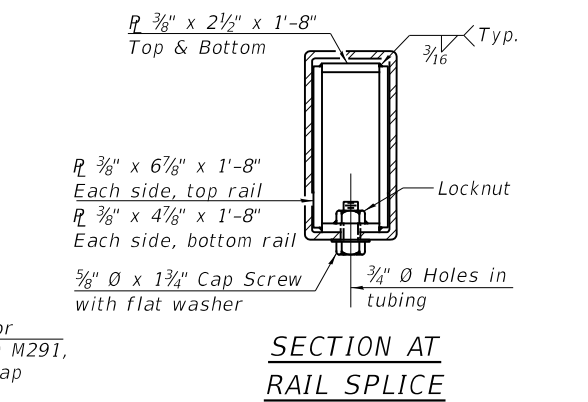
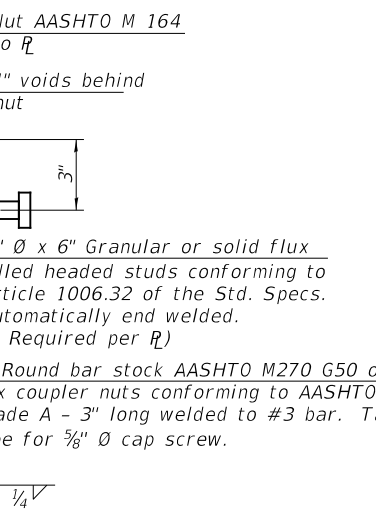
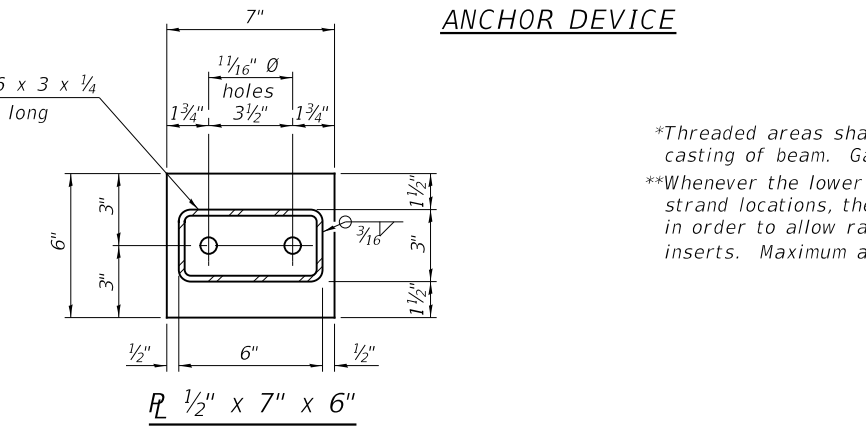
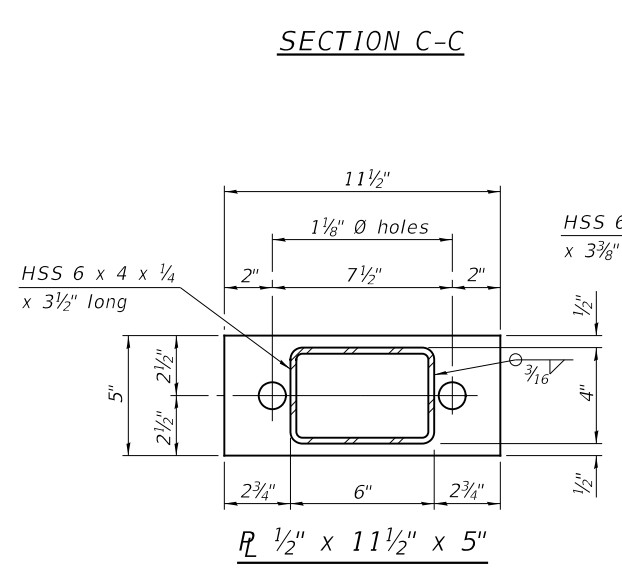
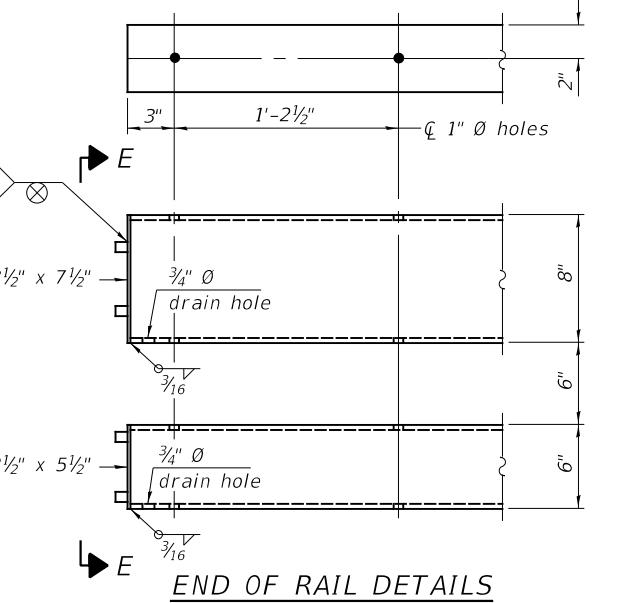
**NOTES**

All field drilled holes shall be coated with an approved zinc rich paint before erection.

For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.

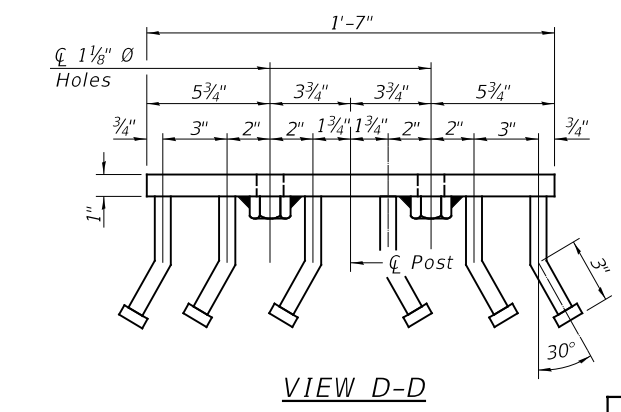
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

\*\*\* The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



\*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

\*\*Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".



**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Steel Railing, Type SM	FOOT	227

USER NAME = MOgden	DESIGNED - ZL	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - JCW	REVISED -
PLOT DATE = 3/30/2022	CHECKED - MMO/BAN	REVISED -
	DATE - 3/24/2022	REVISED -

**MARSHALL COUNTY**  
**F.A.S. 625 (CH 8) OVER**  
**SENACHWINE CREEK**

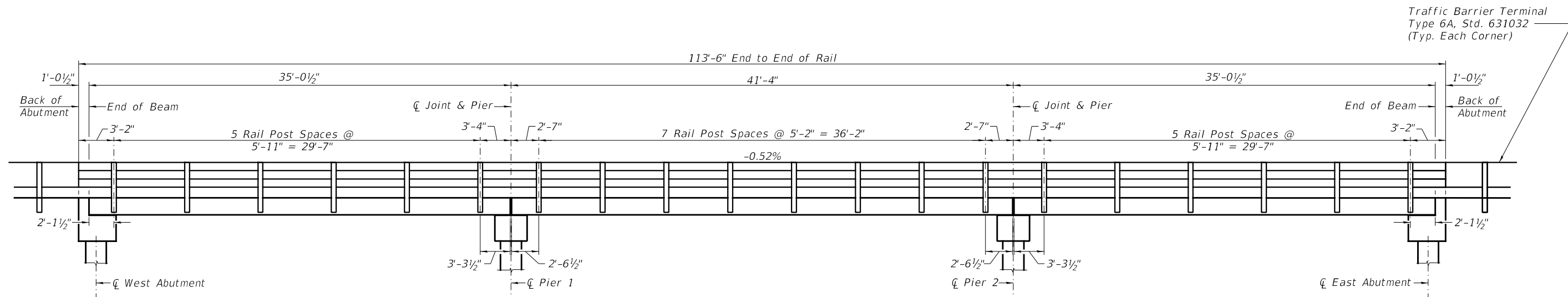
**STEEL RAILING, TYPE SM**

SCALE: NONE SHEET 6 OF 12 SHEETS

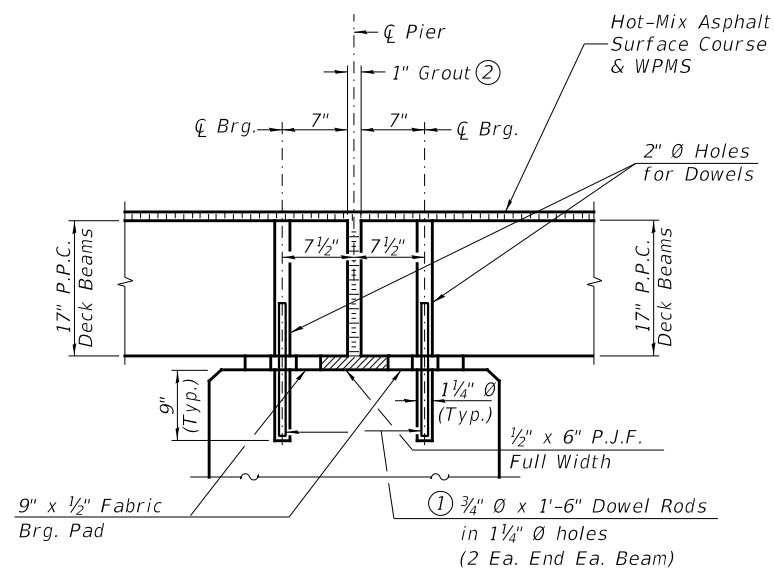
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	19-00102-00-BR	MARSHALL	28	13
	SN 062-3134		CONTRACT NO. 89813	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NO. EGVZ(677)		

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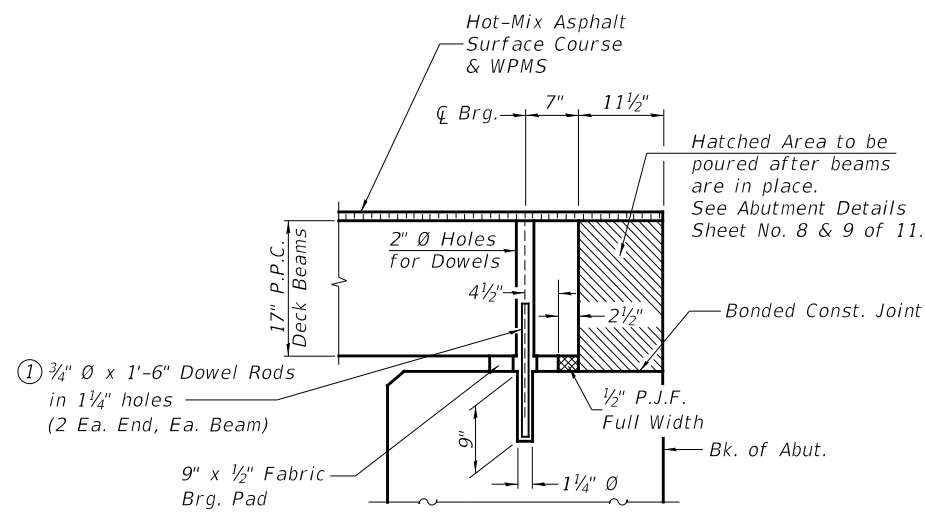
4742-b001.dgn



**RAIL POST SPACING**

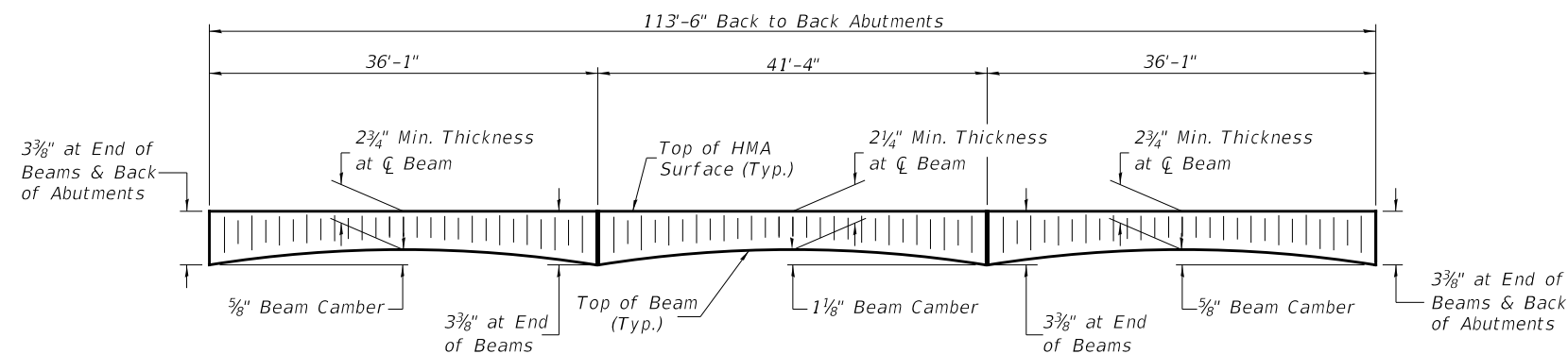


**SECTION THRU PIERS**  
(At Right Angles)



**SECTION THRU ABUTMENTS**  
(At Right Angles)

- ① Dowel Rods to be grouted after beams are in place and allowed to cure (Min. 24 hr.) prior to grouting the shear keys.
- ② 1" Joint shall be packed with a very dry mix of 2:1 sand and P.C. mortar. 1" Dimension may vary plus or minus to accommodate tolerance in beam lengths.



**ANTICIPATED HMA SURFACE PROFILE**  
Includes Waterproofing Membrane System (± 3/4)

USER NAME = MOgden	DESIGNED - ZL	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - JCW	REVISED -
PLOT DATE = 3/30/2022	CHECKED - MMO/BAN	REVISED -
	DATE - 3/24/2022	REVISED -

**MARSHALL COUNTY**  
**F.A.S. 625 (CH 8) OVER**  
**SENACHWINE CREEK**

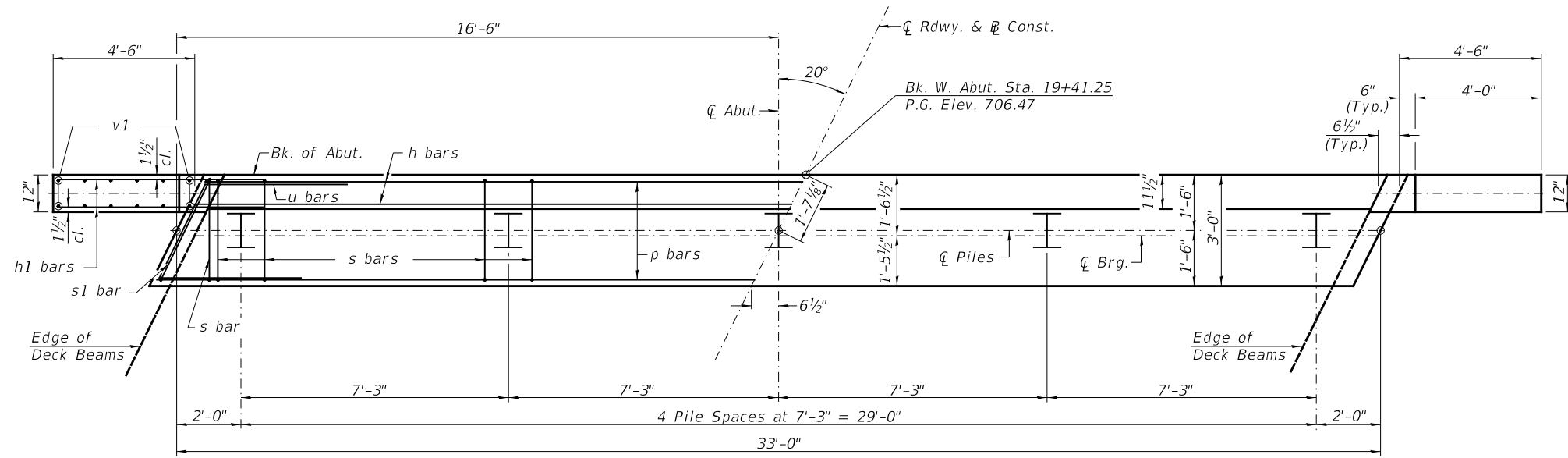
**RAIL POST SPACING**  
**AND SUPERSTRUCTURE DETAILS**

SCALE: NONE SHEET 7 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	19-00102-00-BR	MARSHALL	28	14
SN 062-3134		CONTRACT NO. 89813		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NO. EGVZ(677)		

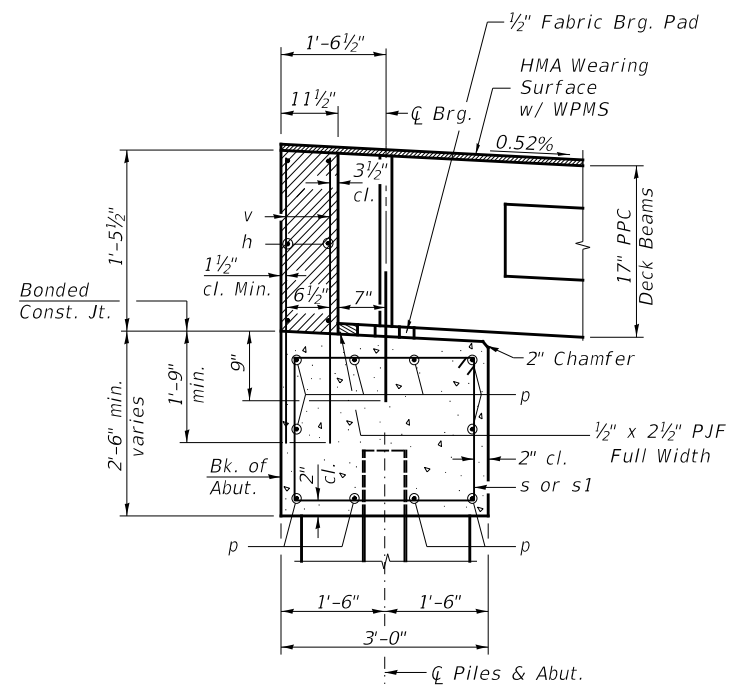
MODEL FILE NAME:

4742-b001.dgn

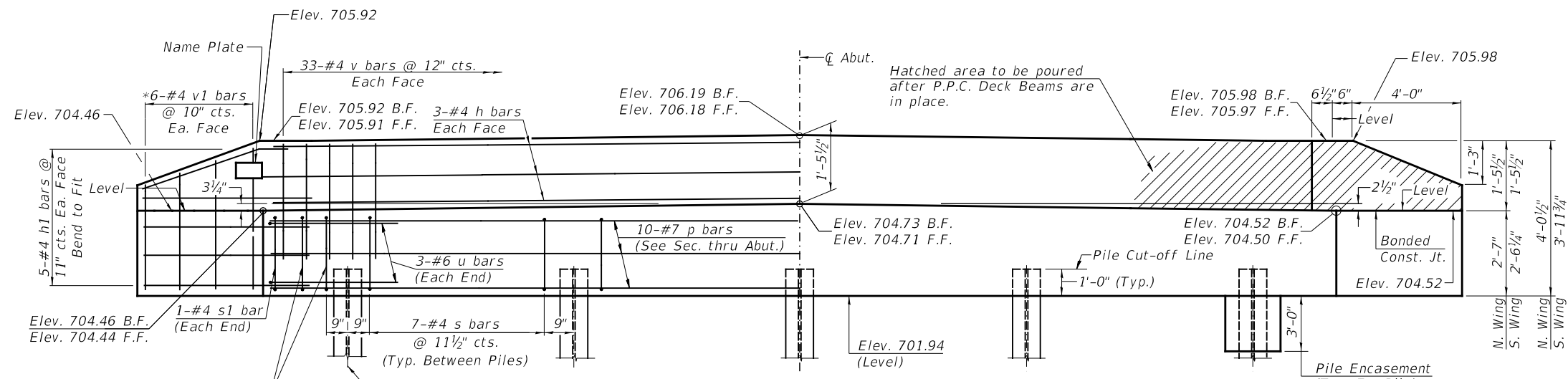


B.F. = Back Face  
F.F. = Front Face

**PLAN**



**SECTION THRU ABUT.**  
(At Right Angles)



**ELEVATION**  
(Front View of Abutment)

**WEST ABUTMENT  
BILL OF MATERIAL**

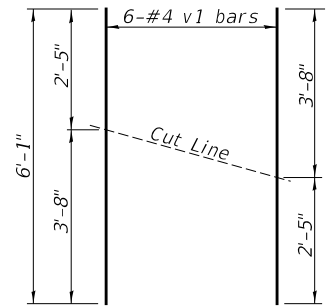
BAR	NO.	SIZE	LENGTH	SHAPE
h	6	#4	32'-9"	—
h1	20	#4	6'-6"	—
p	10	#7	32'-9"	—
s	32	#4	10'-5"	□
s1	2	#4	10'-9"	□
u	6	#6	11'-9"	└
v	66	#4	3'-2"	—
v1	12	#4	6'-1"	—
Concrete Structures		CU YD	12.6	
Reinforcement Bars		POUND	1,420	
Structure Excavation		CU YD	45	
Name Plates		EACH	1	
Furnishing Steel Piles HP10x42		FOOT	188	
Driving Piles		FOOT	188	
Test Pile Steel HP10x42		EACH	1	
Concrete Encasement		CU YD	1.8	

**PILE DATA**

Type & Size: Steel HP10x42  
Nominal Required Bearing: 335 kips  
Factored Resistance Available: 184 kips  
Est. Length: 47'  
No. Req'd.: 5 (Includes 1 Test Pile)

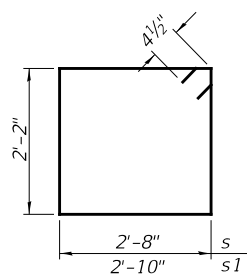
**NOTES**

- The backwall and the portion of the wingwalls above the bonded construction joint shall be cast against the in-place beam.
- All edges shall have standard 3/4" chamfer.

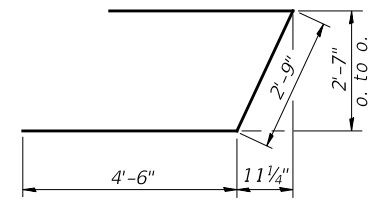


**BAR CUTTING DIAGRAM**

\*Order v1 bars full length. Cut as shown and use remainder of bars in opposite face.



**BAR s & s1**



**BAR u**

FILE NAME:

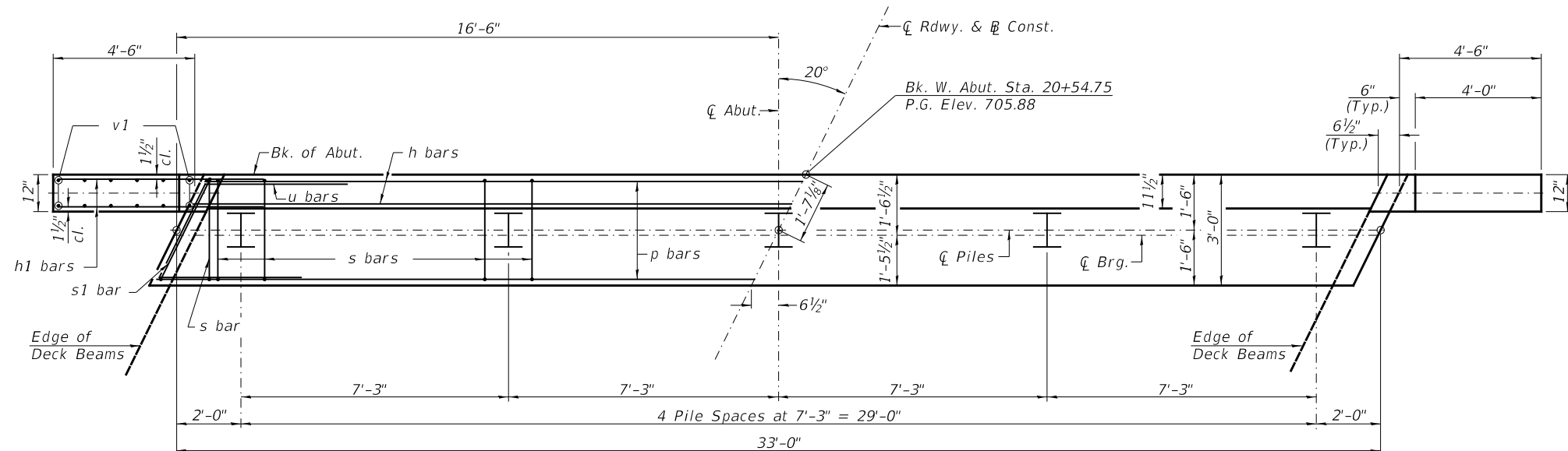
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	DRAWN - JCW	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED - MMO/BAN	REVISED -
PLOT DATE = 3/30/2022	DATE - 3/24/2022	REVISED -

**MARSHALL COUNTY  
F.A.S. 625 (CH 8) OVER  
SENACHWINE CREEK**

**WEST ABUTMENT**

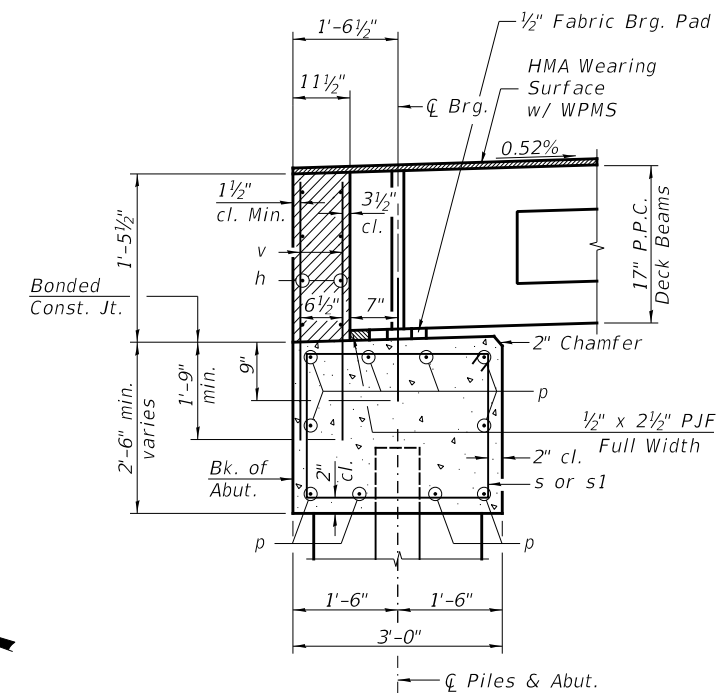
SCALE: NONE SHEET 8 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	19-00102-00-BR	MARSHALL	28	15
SN 062-3134		CONTRACT NO. 89813		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NO. EGVZ(677)		

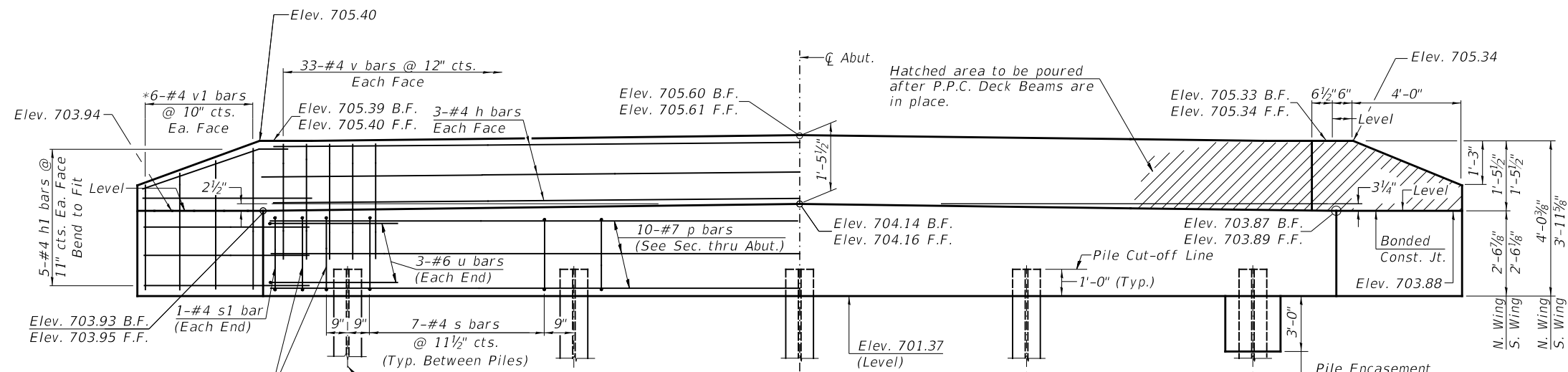


**PLAN**

B.F. = Back Face  
F.F. = Front Face



**SECTION THRU ABUT.**  
(At Right Angles)



**ELEVATION**  
(Front View of Abutment)

**EAST ABUTMENT**  
**BILL OF MATERIAL**

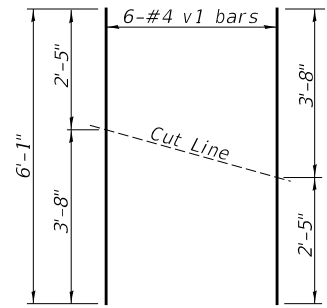
BAR	NO.	SIZE	LENGTH	SHAPE
h	6	#4	32'-9"	—
h1	20	#4	6'-6"	—
p	10	#7	32'-9"	—
s	32	#4	10'-5"	□
s1	2	#4	10'-9"	□
u	6	#6	11'-9"	└
v	66	#4	3'-2"	—
v1	12	#4	6'-1"	—
Concrete Structures		CU YD	12.6	
Reinforcement Bars		POUND	1,420	
Structure Excavation		CU YD	45	
Furnishing Steel Piles HP10x42		FOOT	188	
Driving Piles		FOOT	188	
Test Pile Steel HP10x42		EACH	1	
Concrete Encasement		CU YD	1.8	

**PILE DATA**

Type & Size: Steel HP10x42  
Nominal Required Bearing: 335 kips  
Factored Resistance Available: 184 kips  
Est. Length: 47'  
No. Req'd.: 5 (Includes 1 Test Pile)

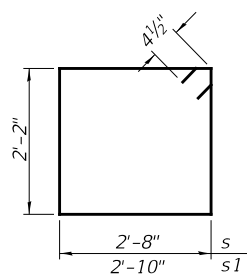
**NOTES**

- The backwall and the portion of the wingwalls above the bonded construction joint shall be cast against the in-place beam.
- All edges shall have standard 3/4" chamfer.

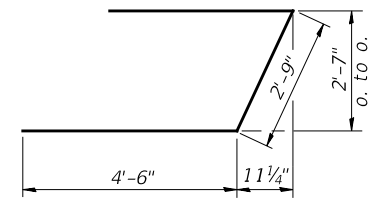


**BAR CUTTING DIAGRAM**

\*Order v1 bars full length. Cut as shown and use remainder of bars in opposite face.



**BAR s & s1**



**BAR u**

FILE NAME:

USER NAME = MOgden	DESIGNED - ZL	REVISED -
DRAWN - JCW	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - MMO/BAN	REVISED -
PLOT DATE = 3/30/2022	DATE - 3/24/2022	REVISED -

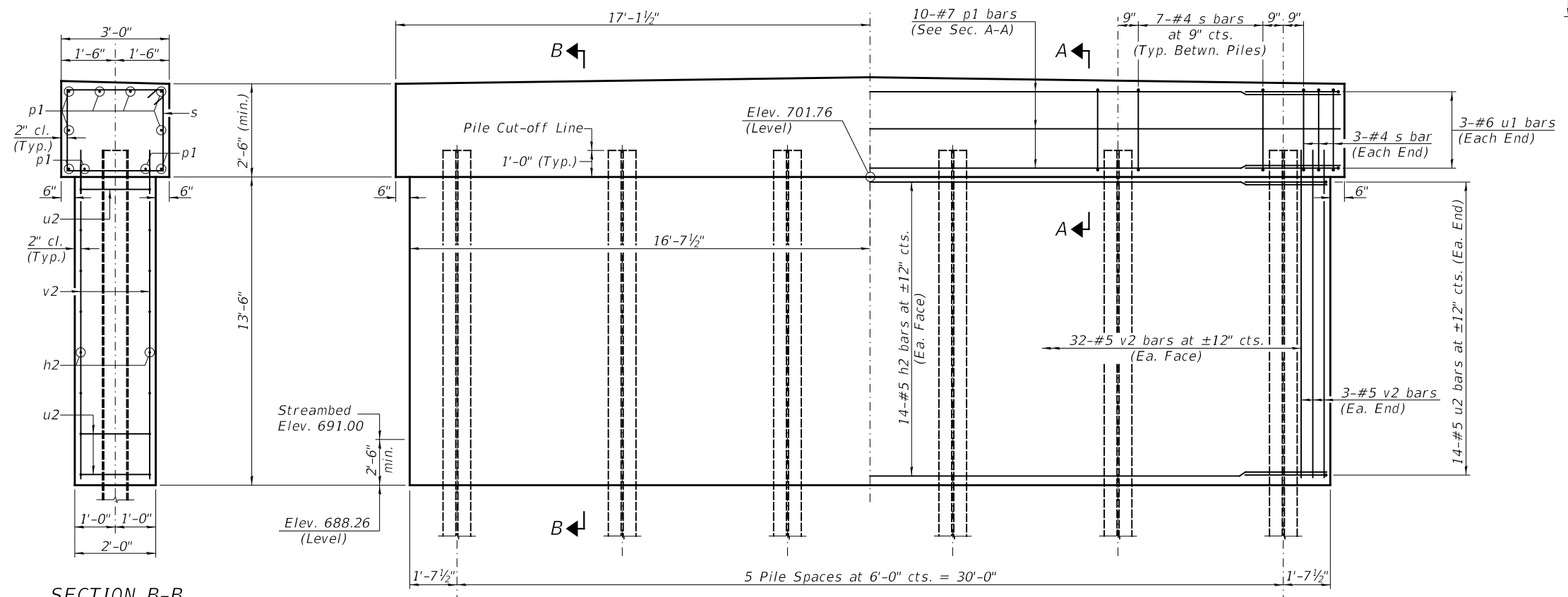
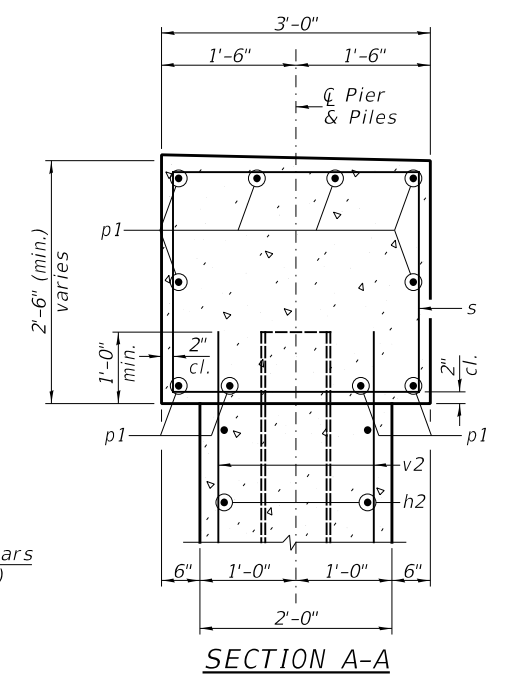
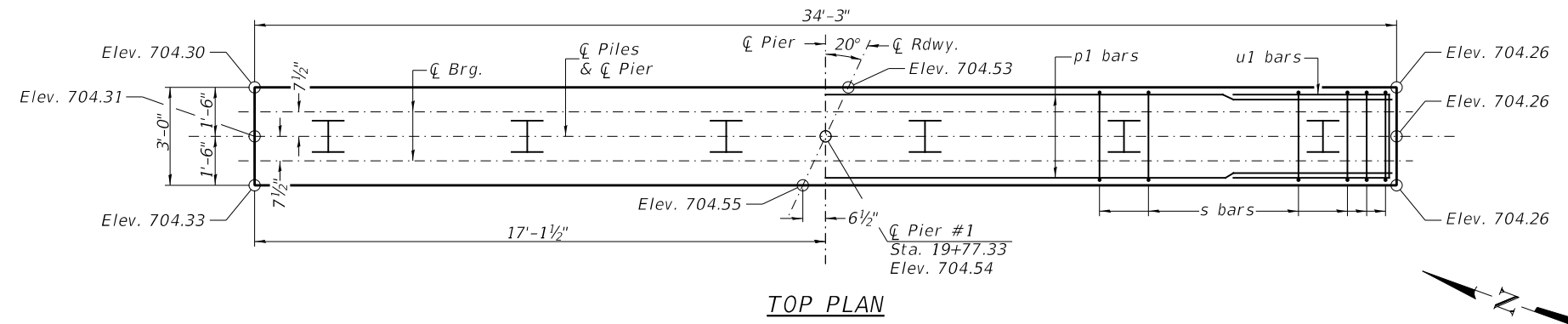
**MARSHALL COUNTY**  
**F.A.S. 625 (CH 8) OVER**  
**SENACHWINE CREEK**

**EAST ABUTMENT**

SCALE: NONE SHEET 9 OF 12 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	19-00102-00-BR	MARSHALL	28	16
SN 062-3134		CONTRACT NO. 89813		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NO. EGVZ(677)		

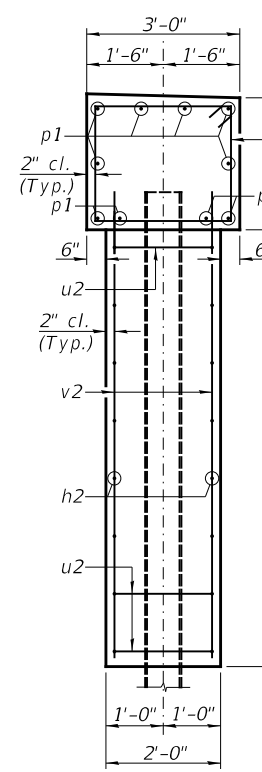




**PIER #1  
BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
h2	28	#5	31'-0"	—
p1	10	#7	34'-0"	—
s	41	#4	10'-5"	□
u1	6	#6	11'-7"	□
u2	28	#5	6'-8"	□
v2	70	#5	14'-4"	—
Cofferdam Excavation		CU YD	60	
Cofferdam (Type 1) (Location-1)		EACH	1	
Concrete Structures		CU YD	42.9	
Reinforcement Bars		POUND	3,230	
Furnishing Steel Piles HP10x42		FOOT	235	
Driving Piles		FOOT	235	
Test Pile Steel HP10x42		EACH	1	

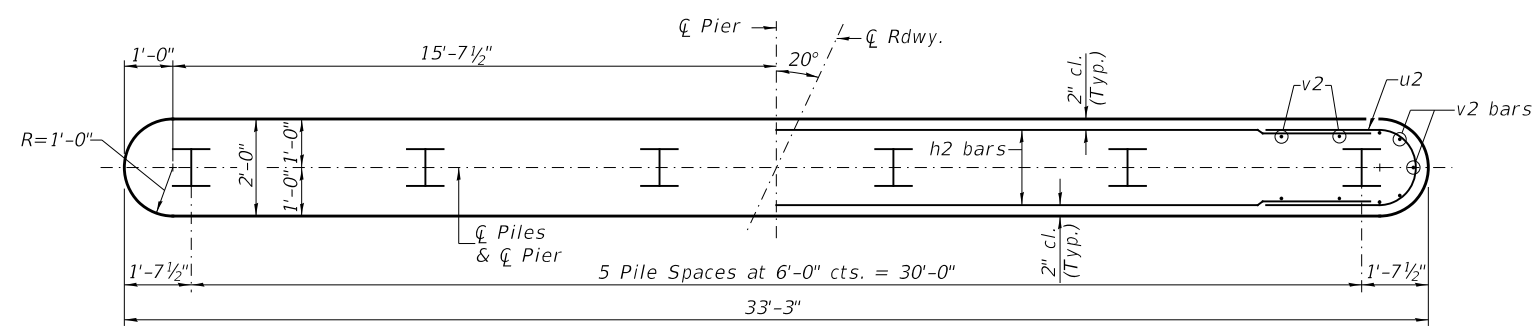
**SECTION B-B**



**ELEVATION (Looking East)**



**FOOTING PLAN**

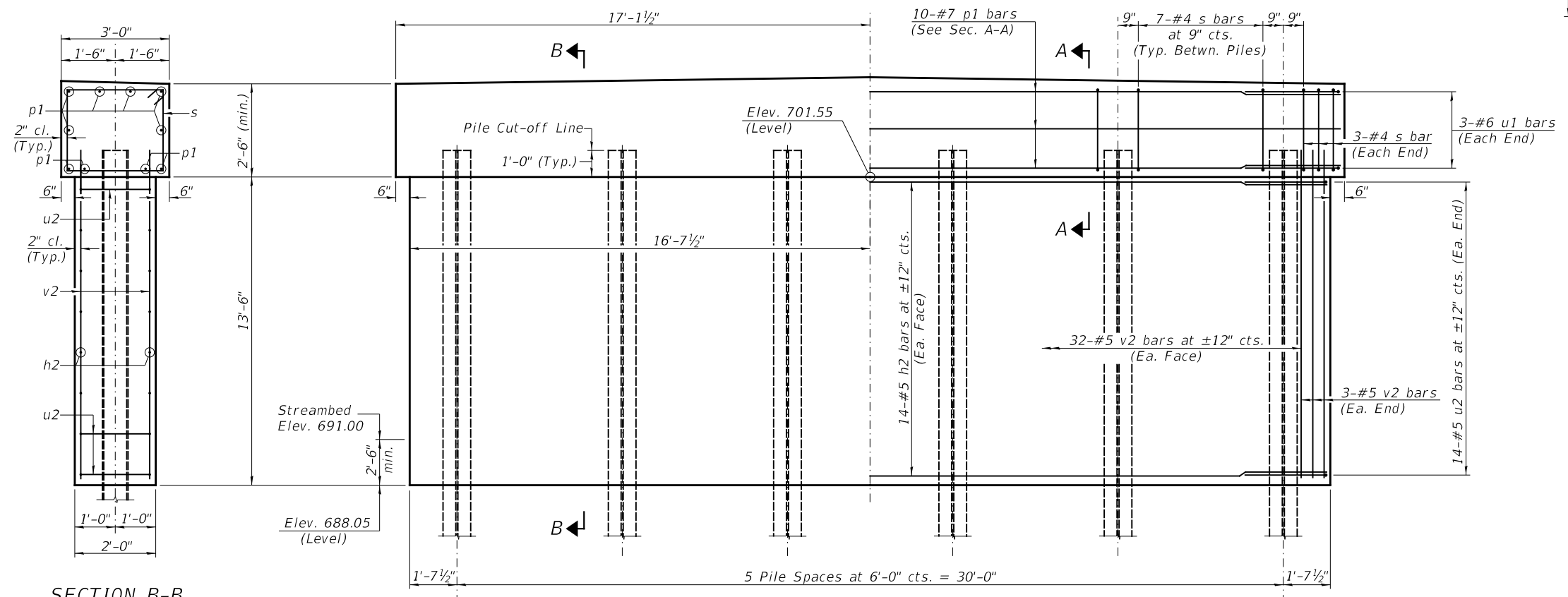
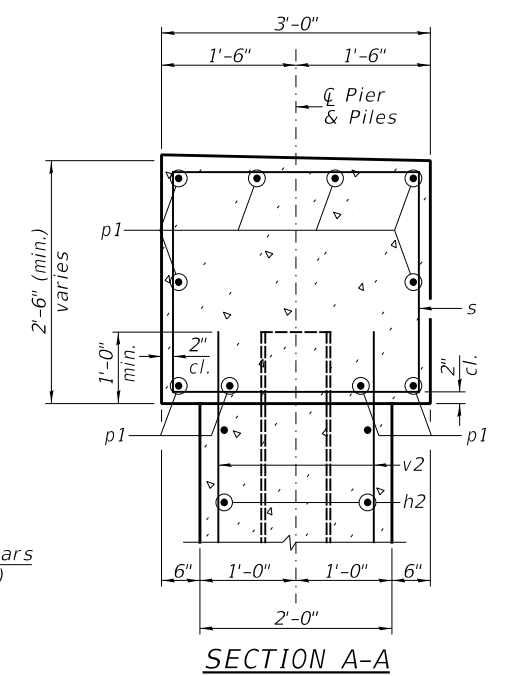
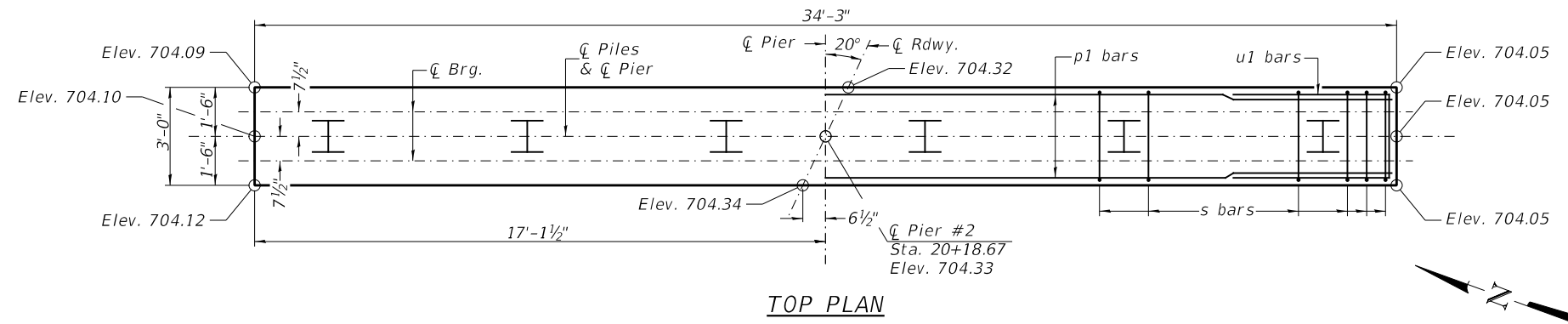


**PILE DATA**

Type & Size: Steel HP10x42  
 Nominal Required Bearing: 335 kips  
 Factored Resistance Available: 184 kips  
 Est. Length: 47'  
 No. Req'd.: 6 (Includes 1 Test Pile)

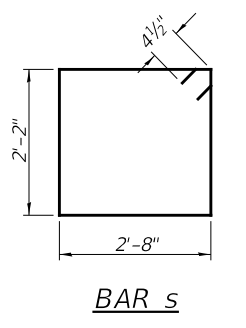
**NOTES**

- All edges shall have standard 3/4" chamfer.
- If a portion of the pier wall is underwater, concrete shall be tremied under water into forms according to Article 503.08 of the Standard Specifications. Concrete shall be tremied to an Elevation 1'-0" above the water level at the time of construction.
- The Pier Stem shall be constructed in a single continuous concrete pour.
- See Sheet No. 12 of 12 for Pile Details.

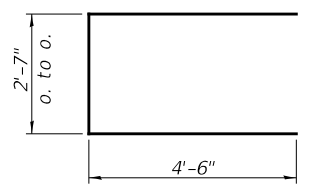


PIER #2  
BILL OF MATERIAL

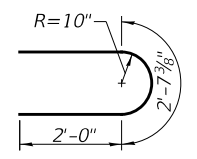
BAR	NO.	SIZE	LENGTH	SHAPE
h2	28	#5	31'-0"	—
p1	10	#7	34'-0"	—
s	41	#4	10'-5"	□
u1	6	#6	11'-7"	□
u2	28	#5	6'-8"	□
v2	70	#5	14'-4"	—
Cofferdam Excavation		CU YD	60	
Cofferdam (Type 1) (Location-2)		EACH	1	
Concrete Structures		CU YD	42.9	
Reinforcement Bars		POUND	3,230	
Furnishing Steel Piles HP10x42		FOOT	235	
Driving Piles		FOOT	235	
Test Pile Steel HP10x42		EACH	1	



BAR s

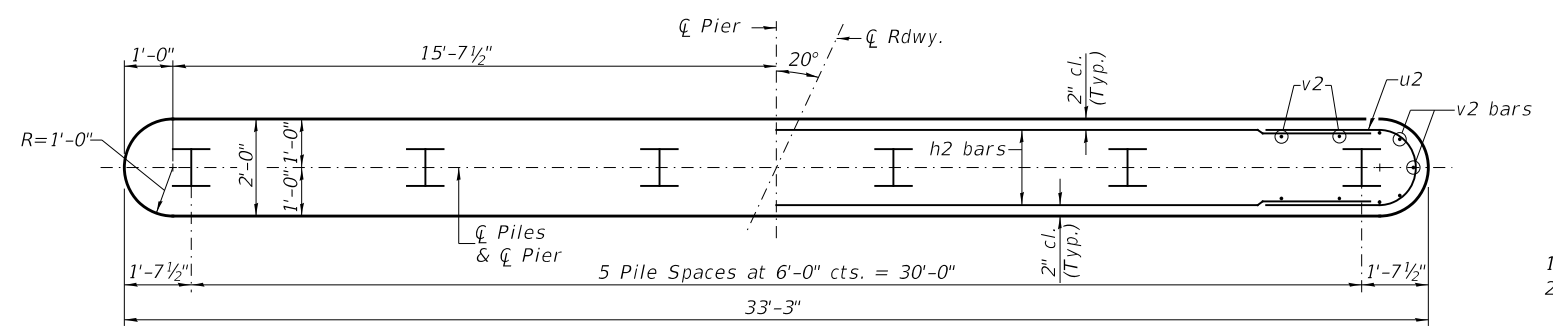


BAR u1



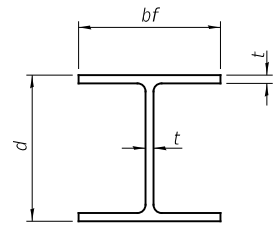
BAR u2

**PILE DATA**  
 Type & Size: Steel HP10x42  
 Nominal Required Bearing: 335 kips  
 Factored Resistance Available: 184 kips  
 Est. Length: 47'  
 No. Req'd.: 6 (Includes 1 Test Pile)



FOOTING PLAN

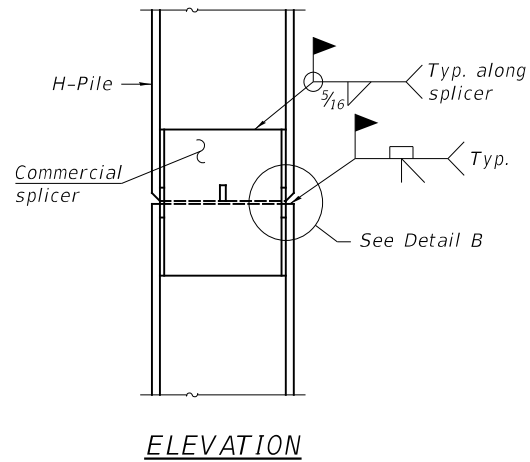
- NOTES**
- All edges shall have standard 3/4" chamfer.
  - If a portion of the pier wall is underwater, concrete shall be tremied under water into forms according to Article 503.08 of the Standard Specifications. Concrete shall be tremied to an Elevation 1'-0" above the water level at the time of construction.
  - The Pier Stem shall be constructed in a single continuous concrete pour.
  - See Sheet No. 12 of 12 for Pile Details.



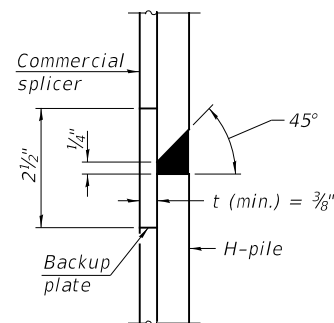
**STEEL PILE TABLE**

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/2"	1 1/16"	24"
x74	12 1/8"	12 1/2"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"

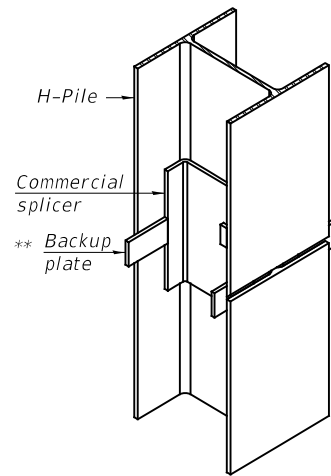
Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.



**ELEVATION**

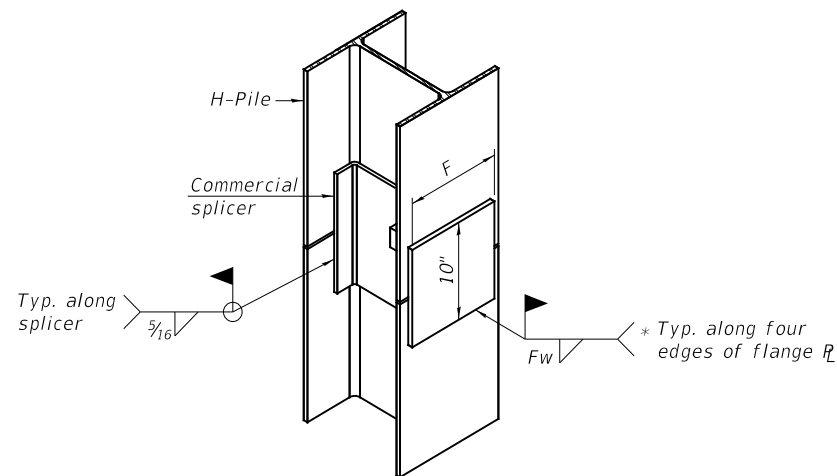


**DETAIL "B"**



**ISOMETRIC VIEW**

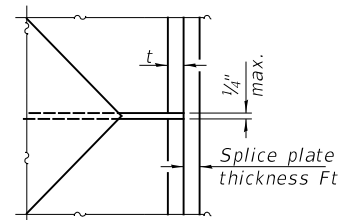
**WELDED COMMERCIAL SPLICE**



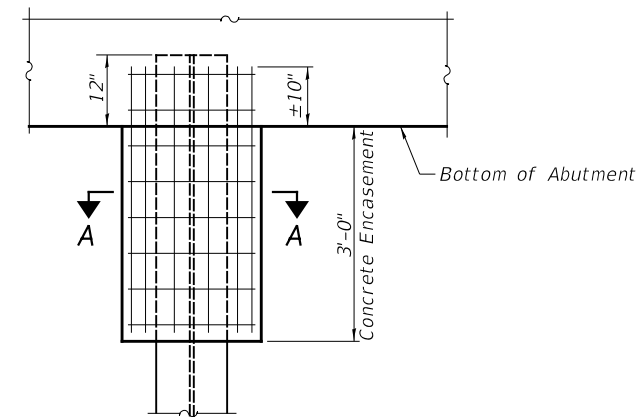
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

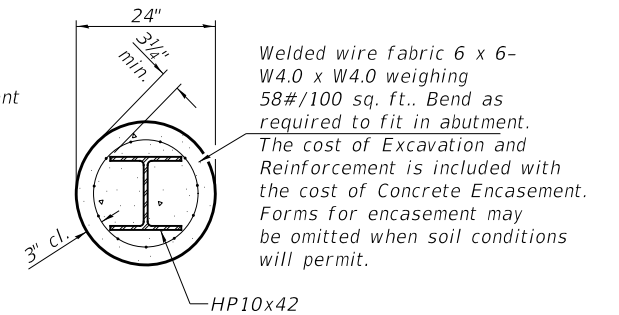
\* Interrupt welds 1/4" from end of web and/or each flange.  
\*\* Remove portions of backup plates that extend outside the flanges.



**DETAIL C**

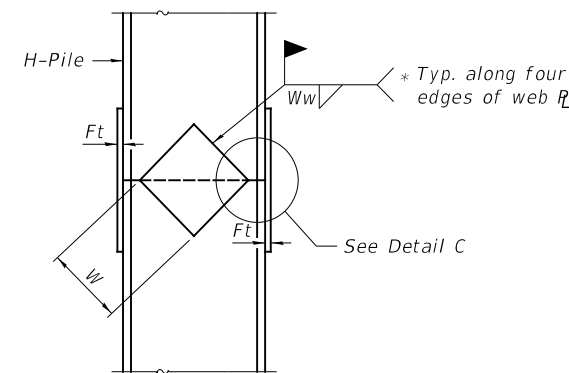


**ABUTMENT ELEVATION**

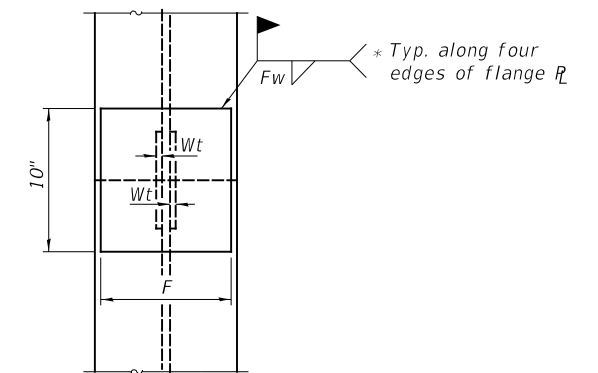


**SECTION A-A**

**PILE ENCASEMENT**



**ELEVATION**



**END VIEW**

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

**WELDED PLATE FIELD SPLICE**

FILE NAME:

USER NAME = MOgden	DESIGNED - ZL	REVISED -
DRAWN - JCW	REVISED -	
PLOT SCALE = 100.0000' / in.	CHECKED - MMO/BAN	REVISED -
PLOT DATE = 3/30/2022	DATE - 3/24/2022	REVISED -

**MARSHALL COUNTY  
F.A.S. 625 (CH 8) OVER  
SENACHWINE CREEK**

**HP PILE DETAILS**

SCALE: NONE SHEET 12 OF 12 SHEETS

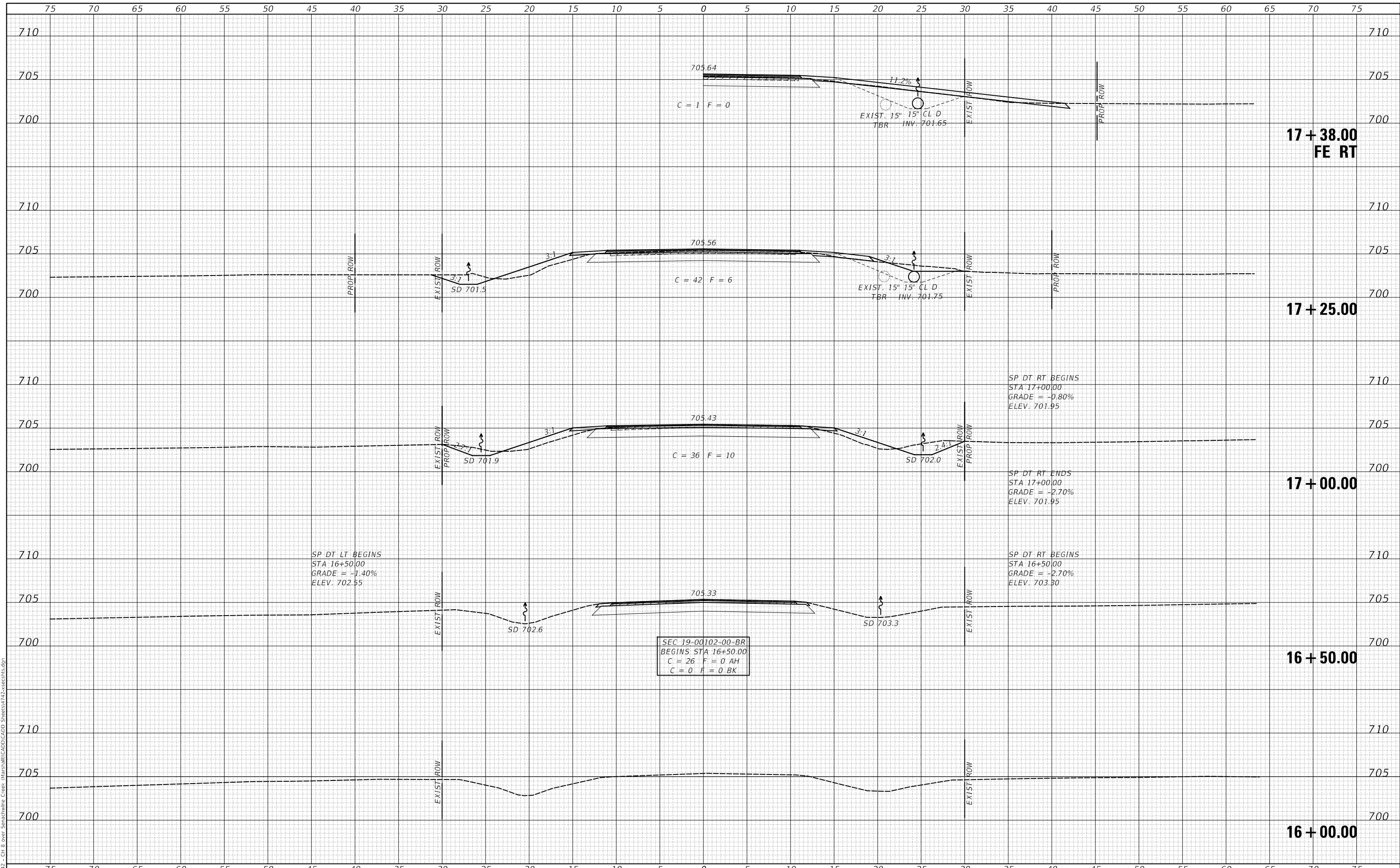
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	19-00102-00-BR	MARSHALL	28	19
SN 062-3134		CONTRACT NO. 89813		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NO. EG2V(677)		

4742-6001.dgn

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

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

MODEL: SPODELNAME\$  
FILE NAME: V19172 - CH 8 OVER SENACHWINE CREEK (H:\Spatial\CADD\CADD Streets\172-see\c8r16.dgn)



USER NAME	= MOgden	DESIGNED	- MMO	REVISED	-
		DRAWN	- MMO	REVISED	-
PLOT SCALE	= 10.0000' / in.	CHECKED	- JPS/BAN	REVISED	-
PLOT DATE	= 3/30/2022	DATE	- 3/24/2022	REVISED	-

**MARSHALL COUNTY  
F.A.S. 625 (CH 8) OVER  
SENACHWINE CREEK**

**CROSS SECTIONS**

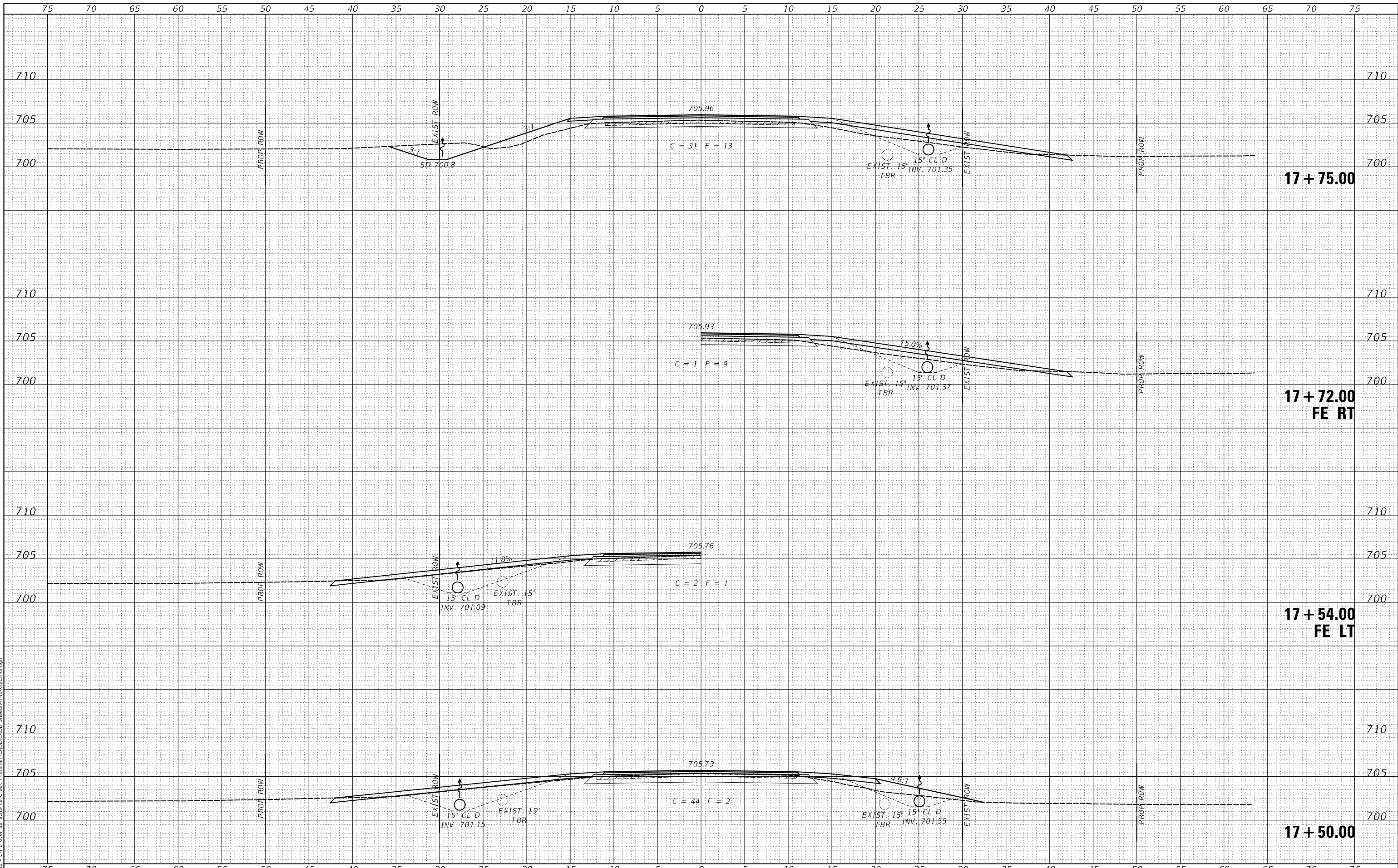
SCALE: 1"=5'      SHEET 1 OF 9 SHEETS      STA. 16+00.00 TO STA. 17+38.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	19-00102-00-BR	MARSHALL	28	20
FED ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 89813	
			FED. AID PROJECT NO. EGVZ(677)	

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

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

MODEL: SPODELNAMEES  
 FILE NAME: V19172 - CH 8 OVER SENACHWINE CREEK (19-00102-00-00) Streets472-see472.rvt



USER NAME =	MOgden	DESIGNED -	MMO	REVISED -	_____
		DRAWN -	MMO	REVISED -	_____
PLOT SCALE =	10.0000' / in.	CHECKED -	JPS/BAN	REVISED -	_____
PLOT DATE =	3/30/2022	DATE -	3/24/2022	REVISED -	_____

**MARSHALL COUNTY  
 F.A.S. 625 (CH 8) OVER  
 SENACHWINE CREEK**

**CROSS SECTIONS**

SCALE: 1"=5'      SHEET 2 OF 9 SHEETS      STA. 17+50.00 TO STA. 17+75.00

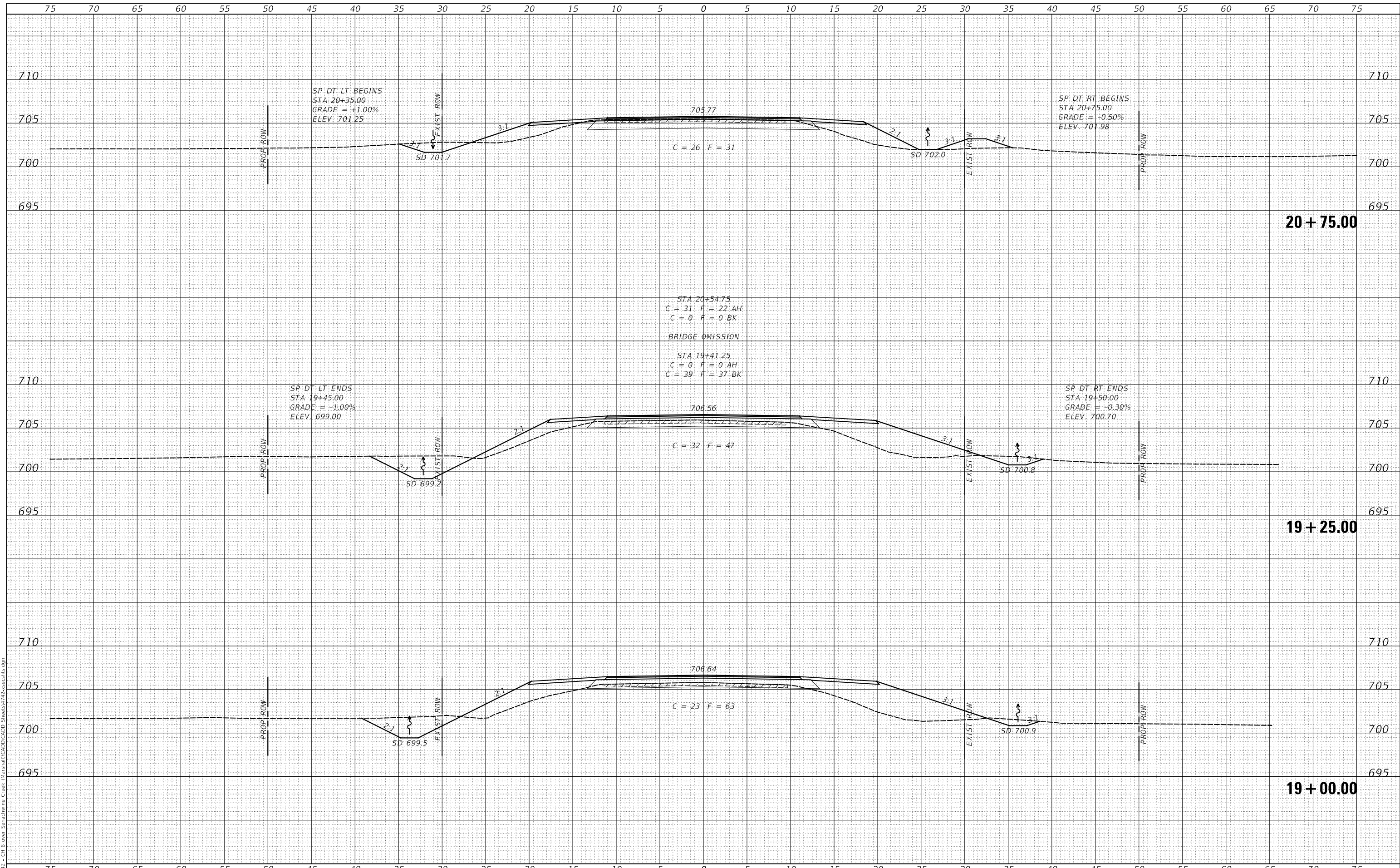
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	19-00102-00-BR	MARSHALL	28	21
FED ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 89813	
			FED. AID PROJECT NO. EGVZ(677)	



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

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

MODEL: SPODELNAME  
FILE NAME: V:\172 - CH 8 over Senachwine Creek - I:\Spatial\CADD\CADD Streets\172-overSenachwin.dgn



USER NAME =	MOgden	DESIGNED -	MMO	REVISED -	_____
		DRAWN -	MMO	REVISED -	_____
PLOT SCALE =	10.0000' / in.	CHECKED -	JPS/BAN	REVISED -	_____
PLOT DATE =	3/30/2022	DATE -	3/24/2022	REVISED -	_____

**MARSHALL COUNTY  
F.A.S. 625 (CH 8) OVER  
SENACHWINE CREEK**

**CROSS SECTIONS**

SCALE: 1"=5'      SHEET 4 OF 9 SHEETS      STA. 19+00.00 TO STA. 20+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	19-00102-00-BR	MARSHALL	28	23
FED ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 89813	
			FED. AID PROJECT NO. EG2V(677)	

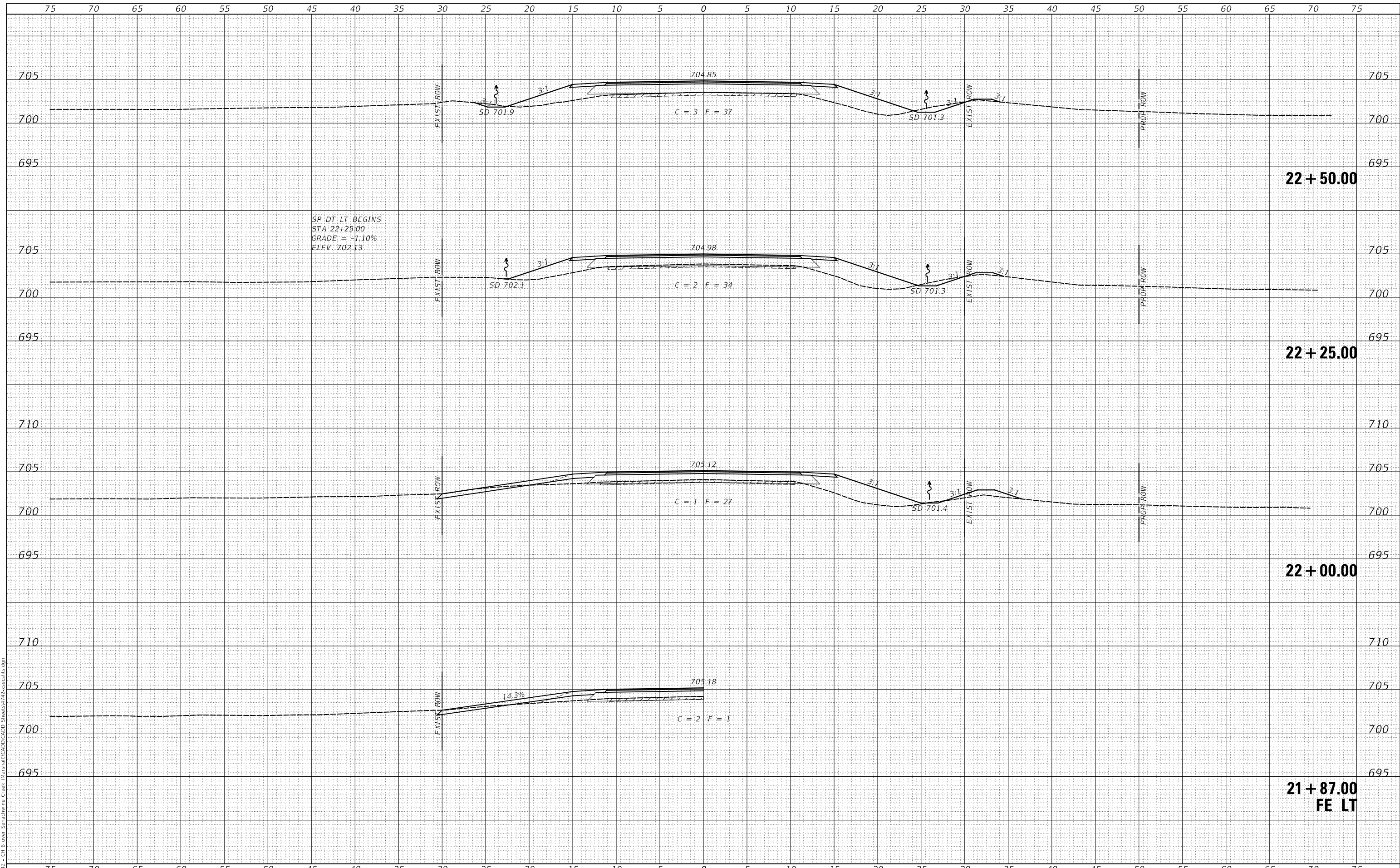




DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

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

MODEL: SPODELNAMEES  
FILE NAME: V:\1712 - CH 8 over Senachwine Creek\19-00102\CADD\CADD Sheets\1712-08-08-01.dgn



USER NAME =	MOgden	DESIGNED -	MMO	REVISED -	_____
		DRAWN -	MMO	REVISED -	_____
PLOT SCALE =	10.0000' / in.	CHECKED -	JPS/BAN	REVISED -	_____
PLOT DATE =	3/30/2022	DATE -	3/24/2022	REVISED -	_____

**MARSHALL COUNTY  
F.A.S. 625 (CH 8) OVER  
SENACHWINE CREEK**

**CROSS SECTIONS**

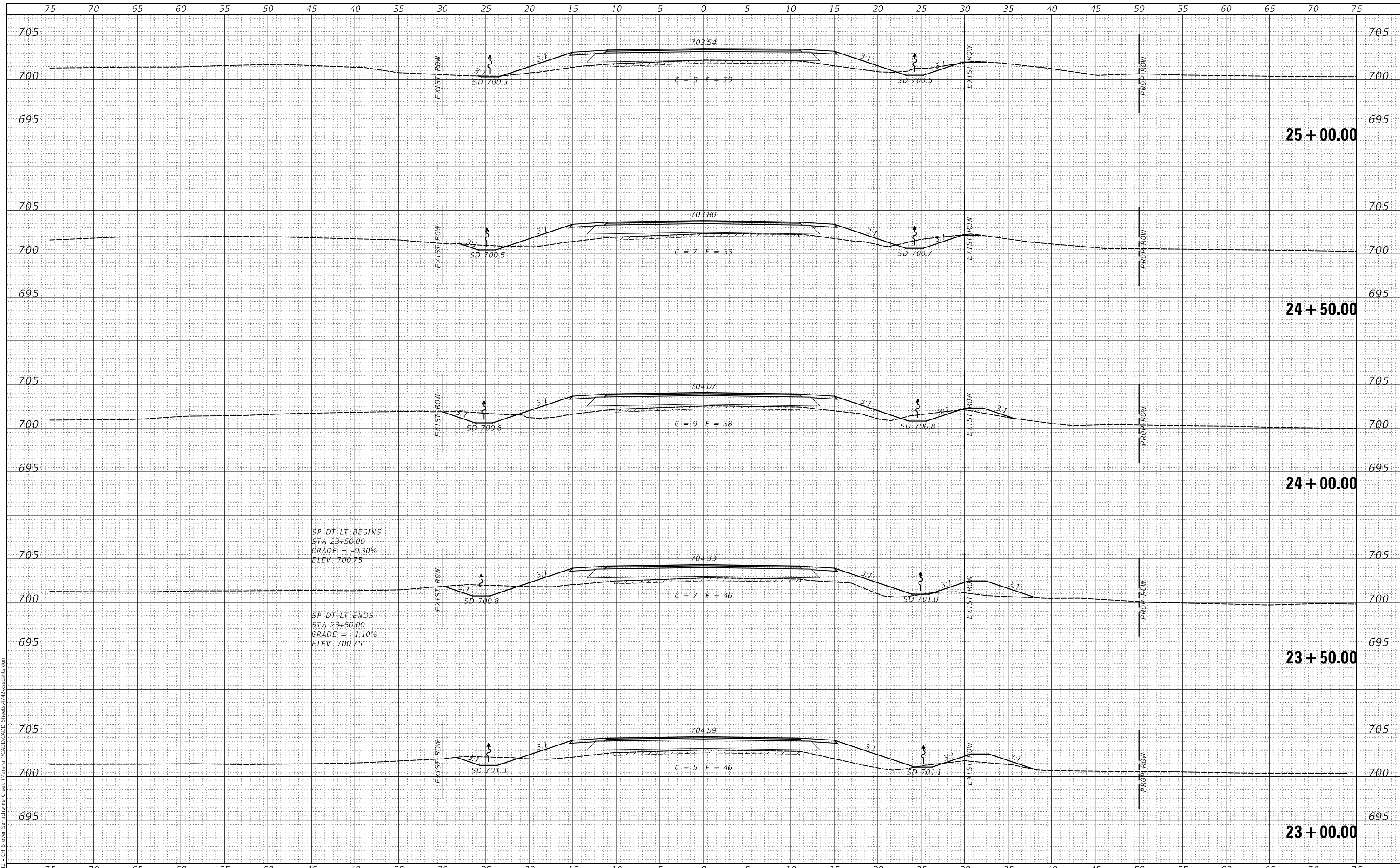
SCALE: 1"=5'      SHEET 6 OF 9 SHEETS      STA. 21+87.00 TO STA. 22+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	19-00102-00-BR	MARSHALL	28	25
FED ROAD DIST. NO. 7		ILLINOIS	CONTRACT NO. 89813	
			FED. AID PROJECT NO. EGVZ(677)	

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

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

MODEL: SPODELNAME\$  
FILE NAME: V:\172 - CH 8 Over Senachwine Creek - I:\rsall\CADD\CADD Streets\172-over-senachwin.dgn



USER NAME	= MOgden	DESIGNED	- MMO	REVISED	-
		DRAWN	- MMO	REVISED	-
PLOT SCALE	= 10.0000' / in.	CHECKED	- JPS/BAN	REVISED	-
PLOT DATE	= 3/30/2022	DATE	- 3/24/2022	REVISED	-

**MARSHALL COUNTY  
F.A.S. 625 (CH 8) OVER  
SENACHWINE CREEK**

**CROSS SECTIONS**

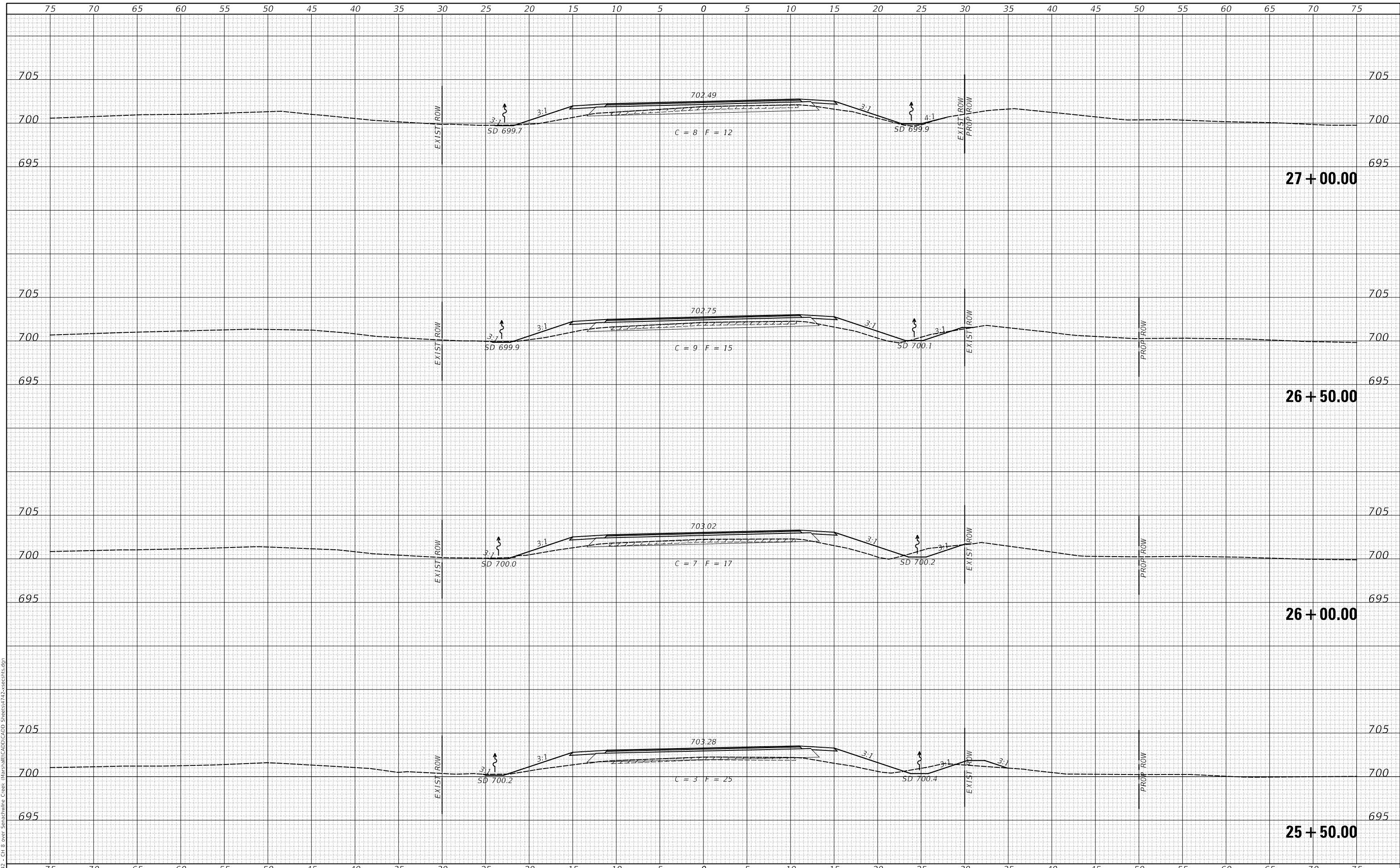
SCALE: 1"=5' SHEET 7 OF 9 SHEETS STA. 23+00.00 TO STA. 25+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	19-00102-00-BR	MARSHALL	28	26
FED ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 89813	
			FED. AID PROJECT NO. EGVZ(677)	

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

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

MODEL: S:\MODEL\MARSHALL\CH 8 OVER SENACHWINE CREEK  
 FILE NAME: V:\172 - CH 8 OVER SENACHWINE CREEK\19-00102\CADD\CH8\Sheet8\172-CH8-CH8-8-1.dgn



USER NAME =	MOgden	DESIGNED -	MMO	REVISED -	_____
		DRAWN -	MMO	REVISED -	_____
PLOT SCALE =	10.0000' / in.	CHECKED -	JPS/BAN	REVISED -	_____
PLOT DATE =	3/30/2022	DATE -	3/24/2022	REVISED -	_____

**MARSHALL COUNTY  
 F.A.S. 625 (CH 8) OVER  
 SENACHWINE CREEK**

**CROSS SECTIONS**

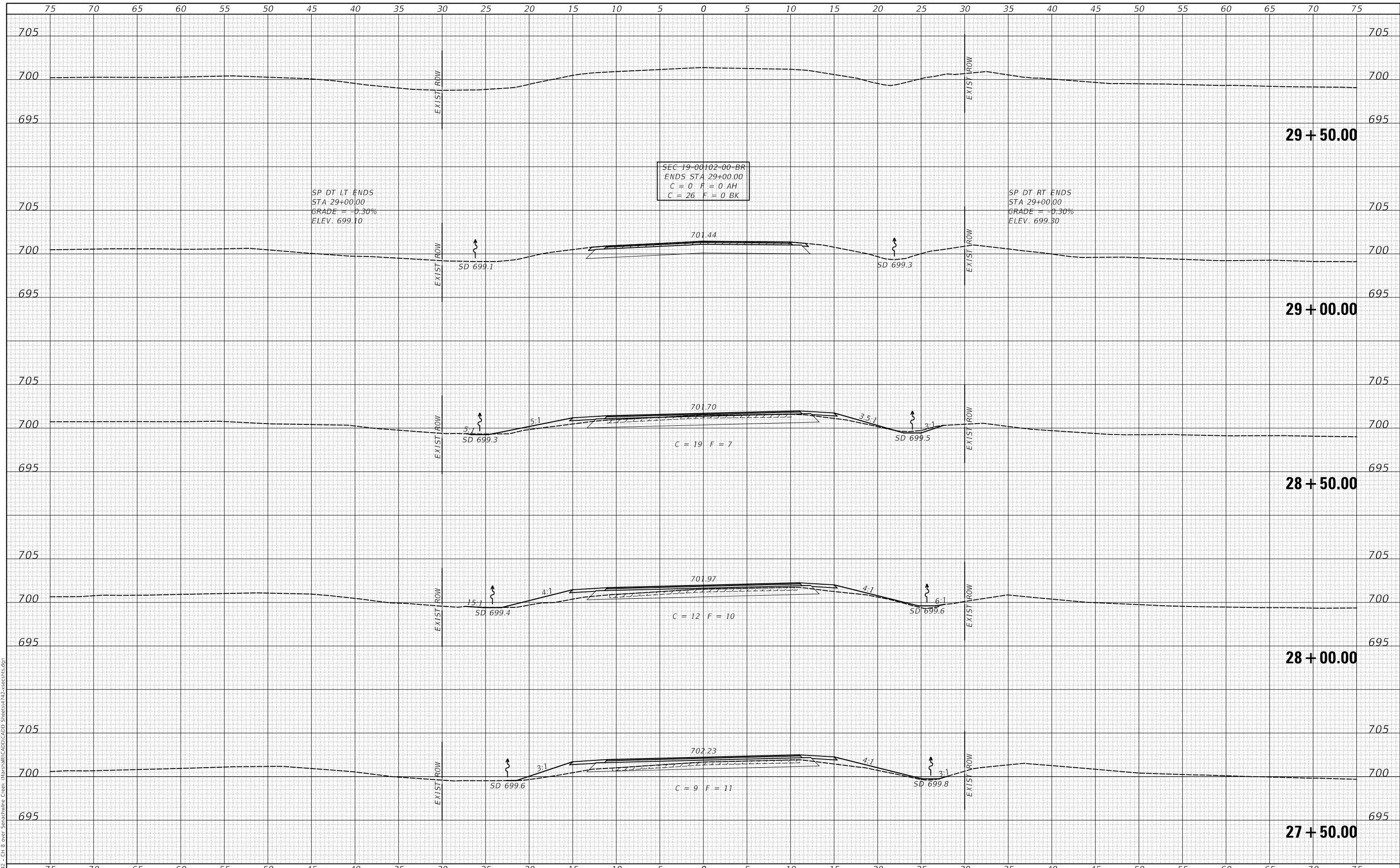
SCALE: 1"=5'      SHEET 8 OF 9 SHEETS      STA. 25+50.00 TO STA. 27+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	19-00102-00-BR	MARSHALL	28	27
CONTRACT NO. 89813				
FED ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT NO. EGVZ(677)	

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

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

MODEL: S:\MODEL\MAMES  
 FILE NAME: V:\172 - CH 8 over Senachwine Creek - 19-00102-00-00.dgn



USER NAME =	MOgden	DESIGNED -	MMO	REVISED -	_____
		DRAWN -	MMO	REVISED -	_____
PLOT SCALE =	10.0000' / in.	CHECKED -	JPS/BAN	REVISED -	_____
PLOT DATE =	3/30/2022	DATE -	3/24/2022	REVISED -	_____

**MARSHALL COUNTY  
 F.A.S. 625 (CH 8) OVER  
 SENACHWINE CREEK**

**CROSS SECTIONS**

SCALE: 1"=5'      SHEET 9 OF 9 SHEETS      STA. 27+50.00 TO STA. 29+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
625	19-00102-00-BR	MARSHALL	28	28
FED ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 89813	
			FED. AID PROJECT NO. EGZ(677)	