

01-17-2025 LETTING ITEM 151

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
PLANS FOR

PROPOSED LOCAL AGENCY IMPROVEMENT  
SURFACE TRANSPORTATION PROGRAM  
LBFP OFF SYSTEM BRIDGE FUNDING

VILLAGE OF PONTOOSUC - HANCOCK COUNTY  
MS 1020 (4th STREET) OVER SPILLMAN CREEK  
SECTION 20-00002-00-BR  
JOB NO. C-96-101-21  
FEDERAL PROJECT NO. CPNX(562)  
CONTRACT NO. 93824

HANCOCK COUNTY	SHEET NO.	1
MS 1020 (4th STREET)	TOTAL SHEETS	34
PROJECT NO. CPNX(562)		
SECTION 20-00002-00-BR		

INDEX OF SHEETS	
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	GENERAL NOTES
3	SUMMARY OF QUANTITIES
4	SCHEDULES OF QUANTITIES
5	TYPICAL SECTIONS
6	ALIGNMENT AND RIGHT-OF-WAY PLAN
7	DEMOLITION PLAN
8	PLAN AND PROFILE
9	SEEDING AND EROSION CONTROL PLAN
10	SUPERELEVATION TRANSITION DETAIL
11-27	STRUCTURE PLANS
28-33	CROSS SECTIONS
34	EXISTING ROAD CROSS SECTIONS

**LIST OF IDOT STANDARDS**

SEE SHEET 2 FOR LIST OF STANDARDS

**LIST OF UTILITIES**

AMEREN ILLINOIS - (NORTH)  
NATHAN HILL  
PH. 618-301-5305  
OCJULIERQUEST@AMEREN.COM

NICOR GAS  
UTILITY CONSULTANT G03W  
PH. 630-388-2362

BP PIPELINES  
BLAKE PATRICK  
PH. 872-245-3915  
630-281-0342  
BLAKE.PATRICK@BP.COM

BUCKEYE PARTNERS  
BRIAN BARR  
PH. 610-904-4156  
BBARR@BUCKEYE.COM

DALLAS RURAL WATER DIST.  
ANDREA SEWELL  
PH. 217-847-6577  
dallasrwd@frontier.com

MEDIACOM  
CHRIS MINARD  
PH. 815-597-5103  
CMINARD@MEDIACOMCC.COM

FRONTIER COMMUNICATIONS  
KALIN HINSHAW  
PH. 815-895-1515  
KALIN.HINSHAW@FTR.COM

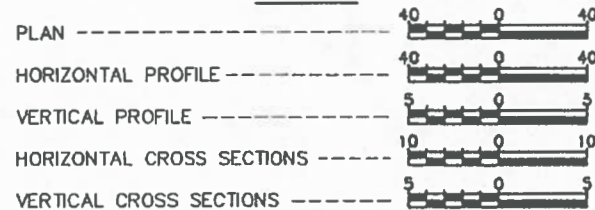
USIC LOCATING SERVICES  
Information not provided

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

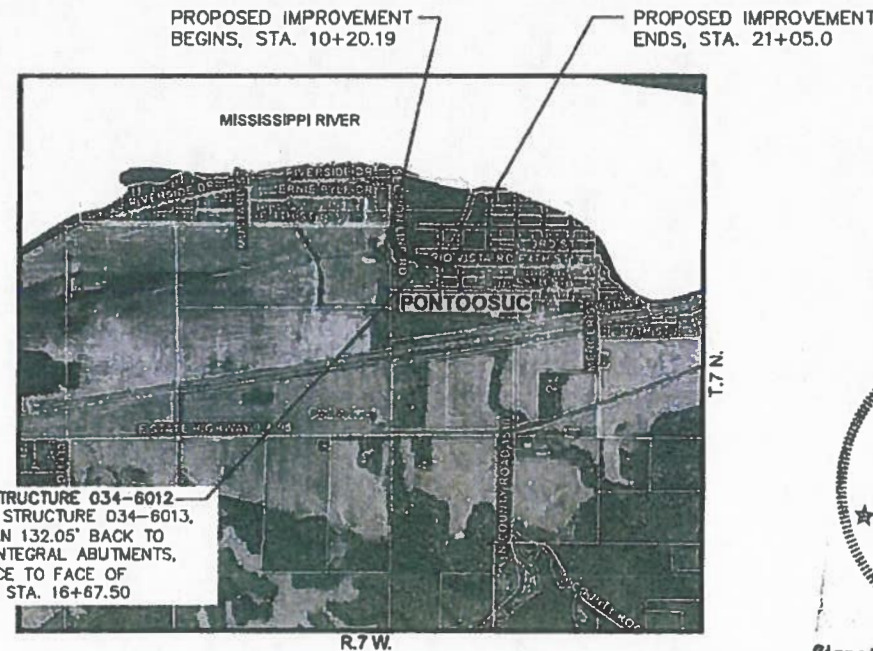


Know what's below.  
Call before you dig.

**SCALES**



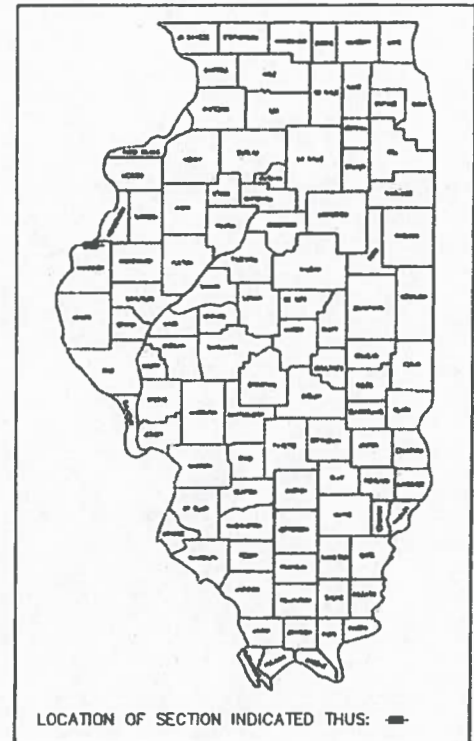
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZE PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED



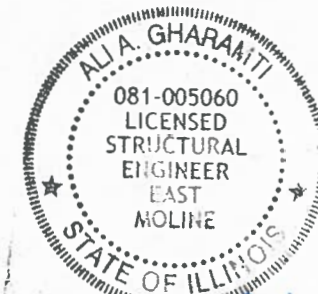
EXISTING STRUCTURE 034-6012  
PROPOSED STRUCTURE 034-6013,  
THREE SPAN 132.05' BACK TO  
BACK OF INTEGRAL ABUTMENTS,  
28'-0" FACE TO FACE OF  
PARAPETS, STA. 16+67.50

TOTAL AND NET LENGTH OF PROJECT: 1084.81 FEET = 0.205 MILES  
ROADWAY CLASSIFICATION: LOCAL ROAD (ADT = 125 (2024))  
DESIGN GUIDELINES: 3R GUIDELINES (BLRS MANUAL)  
DESIGN SPEED = 30 MPH

CONTRACT NO. 93824



LOCATION OF SECTION INDICATED THUS: —



Signature: *Alia Gharaniti*  
Date: 10/1/24  
Exp. Date: 11/30/26

APPROVED 10-1-2024  
*Robert Durand*  
LOCAL AGENCY VILLAGE OF PONTOOSUC

APPROVED 10/1/2024  
*Elgin Berry*  
HANCOCK COUNTY ENGINEER

PASSED 10/23/2024  
*Chris G. Wright*  
DISTRICT 6 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR  
BID BASED ON  
LIMITED REVIEW 10/23/2024  
*Jeff P. Myer*  
REGION 4 ENGINEER  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



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## GENERAL NOTES

HIGHWAY STANDARDS	
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGES
542401-04	METAL FLARED END SECTIONS FOR PIPE CULVERTS
601101-02	CONCRETE HEADWALL FOR PIPE DRAINS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-10	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR20-7	TRAFFIC BARRIER TERMINAL, TYPE 5R
BLR21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
BLR23-4	TRAFFIC BARRIER TERMINAL, TYPE 1

- ALL PROFILE GRADES ARE TO THE TOP OF THE FINISHED HOT MIX ASPHALT SURFACE COURSE.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL CAREFULLY PROTECT AND PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE NECESSARY REMOVAL OF ANY EXISTING FENCES ARE TO BE DONE BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION WITH THE COST TO BE CONSIDERED INCIDENTAL TO THE COST OF THE PROJECT.
- THE CONTRACTOR WILL NOT BE ALLOWED TO BURY THE EXISTING STRUCTURES OR TREES NEAR THE JOBSITE. THIS MATERIAL IS TO BE HAULED OFF THE AREA BY THE CONTRACTOR.
- THE COST TO REMOVE THE EXISTING BITUMINOUS SURFACE (OIL & CHIP) AND BASE COURSE MATERIAL TO CONSTRUCT THE NEW ROADWAY IS TO BE CONSIDERED INCIDENTAL TO THE COST PER CUBIC YARD FOR EARTH EXCAVATION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAWCUTTING BUTT JOINTS IN THE EXISTING BITUMINOUS PAVEMENT AT EACH END OF THE PROJECT LIMITS PRIOR TO REMOVING THE SURFACE AS DIRECTED BY THE ENGINEER. THIS WORK IS TO BE CONSIDERED INCIDENTAL TO THE COST PER CUBIC YARD FOR EARTH EXCAVATION.
- STEEL STRINGERS, CONCRETE AND OTHER DEBRIS CREATED FROM REMOVAL OF EXISTING STRUCTURE SHALL BE DISPOSED OF BY THE CONTRACTOR.
- SOIL REPORT AVAILABILITY:  
THE SOILS REPORT AND ALL SOILS DATA COLLECTED AND PROCESSED IN CONJUNCTION WITH THE DESIGN OF IMPROVEMENT IS ON FILE AT THE ENGINEER'S OFFICE WHERE IT IS AVAILABLE FOR INSPECTION BY CONTRACTORS OR PROSPECTIVE BIDDERS. BY SUBMITTING A BID, THE CONTRACTOR ACKNOWLEDGES THAT THE SOILS REPORT AND DATA HAVE BEEN MADE AVAILABLE, THAT THE CONTRACTOR IS AWARE OF THE REPORT CONTENTS AND APPENDICES, AND THAT THE SOILS REPORT IS PART OF THE CONTRACT DOCUMENTS.
- ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON NAVD 88 ELEVATION DATUM. HORIZONTAL CONTROL BASED ON ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 1983 (2011) WEST ZONE.
- THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTH AND INVERTS OF ALL DRAINAGE ITEMS PRIOR TO ORDERING.
- THE EMBANKMENT FOR NEW ROADWAY SHALL BE CONSTRUCTED USING SUITABLE MATERIAL FROM EARTH EXCAVATION FOR ROADWAY AND FURNISHED EXCAVATION PRIOR TO REMOVAL OF THE EXISTING ROADWAY EMBANKMENT SHOWN IN SCHEDULE AS EARTH EXCAVATION (EXISTING ROAD). THE CONTRACTOR SHALL SALVAGE SUITABLE TOPSOIL MATERIAL REQUIRED TO COMPLETE THE TOPSOIL PLACEMENT FROM THE EXISTING ROADWAY EMBANKMENT. ALL SURPLUS MATERIAL FROM THE REMOVAL OF THE EXISTING ROADWAY EMBANKMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH SECTION 202 OF THE STANDARD ROADWAY SPECIFICATIONS. DISPOSAL OF EXCESS OR USUITABLE MATERIAL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE CUBIC YARD PRICE FOR EARTH EXCAVATION.
- THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP 4" OF ALL FINISHED GRADED SURFACES TO BE SEEDED. THE VEGETATION SUSTAINING SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. SUITABLE MATERIAL CAN BE OBTAINED FROM ON SITE STRIPPING AND EXCAVATION.
- PER ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS, A PERMIT SHALL BE OBTAINED FROM IEPA AND MADE AVAILABLE TO THE ENGINEER PRIOR TO OPEN BURNING OF ANY ORGANIC WASTE (I.E. PLANT REFUSE RESULTING FROM PRUNING OR REMOVAL OF TREES OR SHRUBS) OR OTHER CONSTRUCTION OR DEMOLITION DEBRIS.

- 4TH STREET SHALL REMAIN OPEN WITH BI-DIRECTIONAL TRAFFIC FOR THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY AGGREGATE SURFACE TO THE ENGINEERS SATISFACTION. CONTRACTOR SHALL SUBMIT A STAGING PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL BEFORE THE COMMENCEMENT OF CONSTRUCTION.

DAY-TIME LANE CLOSURES WITH FLAGGERS ALLOWED. ROAD CLOSURES SHALL ONLY BE ALLOWED FOR PAVING TIE-INS AND SHALL BE KEPT TO A MINIMUM, THEY SHALL BE INCLUDED IN THE STAGING PLAN AND SUBJECT TO APPROVAL BY THE ENGINEER. ANY ROAD CLOSURE MUST PROVIDE NOTIFICATION TO RESIDENTS AND EMS SERVICES MINIMUM 5 DAYS IN ADVANCE. THIS WORK AND ANY ADDITIONAL TRAFFIC CONTROL, STAGING, FLAGGERS, TEMPORARY AGGREGATE, TEMPORARY ROAD CONSTRUCTION, MAINTENANCE, AND MATERIALS SHALL BE CONSIDERED INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR 'TRAFFIC CONTROL AND PROTECTION, (SPECIAL)'.  
 CONTRACTOR SHALL CONSIDER EXISTING BRIDGE LOAD POSTINGS IN MOVING AND STAGING EQUIPMENT AND SHALL NOT EXCEED POSTED BRIDGE LOADING.

### HOT-MIX ASPHALT REQUIREMENTS

MIXTURE USES	SURFACE COURSE	BINDER COURSE
PG	64-22	64-22
DESIGN AIR VOIDS	4.0% @Ndes = 50	4.0% @Ndes = 50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICTION AGGREGATE	MIXTURE C (DOLOMITE OR 1/4")	N/A
MIXTURE WEIGHT	112 lb/SQ. YD./INCH	112 lb/SQ. YD./INCH
QUALITY MGMT PROGRAM	QCQA	QCQA
SUBLOT SIZE	N/A	N/A

### NOTES:

- INDIVIDUAL LIFT THICKNESSES OF EACH MIX WILL BE NO LESS THAN THREE (3) TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN FIVE (5) TIMES NOMINAL AGGREGATE MAXIMUM SIZE, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

### APPLICATION RATES:

HMA SURFACE COURSE, IL-9.5, MIX C, N50 = 112 LBS PER INCH PER SQ. YD.  
 HMA BINDER COURSE, IL-19.0, N50 = 112 LBS PER INCH PER SQ. YD.

AGGREGATE BASE COURSE, TYPE B = 2.0 TONS PER CUBIC YARD  
 AGGREGATE SHOULDERS, TYPE B = 2.0 TONS PER CUBIC YARD

STONE RIPRAP = 1.75 TONS PER CUBIC YARD

### SEEDING:

NITROGEN FERTILIZER NUTRIENT = 90 POUNDS PER ACRE  
 PHOSPHORUS FERTILIZER NUTRIENT = 90 POUNDS PER ACRE  
 POTASSIUM FERTILIZER NUTRIENT = 90 POUNDS PER ACRE  
 AGRICULTURAL GROUND LIMESTONE = 2 TONS PER ACRE  
 TEMPORARY EROSION CONTROL SEEDING = 100 POUNDS PER ACRE

### BITUMINOUS MATERIAL RATES

SURFACE TYPE		ESTIMATED APPLICATION RATE
AGGREGATE BASE	PRIME	0.30 POUNDS / SQ. FT.
FOG COAT (BETWEEN LIFTS)	TACK	0.05 POUNDS / SQ. FT.

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

**GENERAL NOTES**  
**4TH ST. BRIDGE REPLACEMENT**  
PONTIAC, ILLINOIS

SCALE: AS SHOWN    SHEET NO. 2 OF 34 SHEETS    FIELD BOOK: HANCOCK COUNTY BOOK I

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-0002-00-BR	HANCOCK	34	2
4th STREET			
CONTRACT NO. 93824			

ILLINOIS JOB: C-96-101-21

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PLOT DATE = 9-30-2024	DATE -- 9-30-2024	REVISED --

SUMMARY OF QUANTITIES			
CODE #	ITEM	UNIT	QUANTITY
* 20100500	TREE REMOVAL, ACRES	ACRE	1.1
20200100	EARTH EXCAVATION	CU YD	5806
20400800	FURNISHED EXCAVATION	CU YD	6292
20700220	POROUS GRANULAR EMBANKMENT	CU YD	93.4
25000210	SEEDING CLASS 2A	ACRE	0.8
25000310	SEEDING CLASS 4	ACRE	1.1
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	171
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	171
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	171
25000700	AGRICULTURAL GROUND LIMESTONE	TON	3.8
25100115	MULCH METHOD 2	ACRE	1.9
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	193
28000400	PERIMETER EROSION BARRIER	FOOT	3166
28000500	INLET AND PIPE PROTECTION	EACH	3
28100207	STONE RIPRAP, CLASS A4	TON	123
28200200	FILTER FABRIC	SQ YD	124.6
35101400	AGGREGATE BASE COURSE, TYPE B	TON	951
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	24
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	5776
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	947
40603080	HMA BINDER COURSE, IL-19.0, N50	TON	267.4
40604050	HMA SURFACE COURSE, IL-9.5, MIX C, N50	TON	175.6
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	78
42001300	PROTECTIVE COAT	SQ YD	740.2

SUMMARY OF QUANTITIES			
CODE #	ITEM	UNIT	QUANTITY
48101200	AGGREGATE SHOULDERS, TYPE B	TON	196
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50104400	CONCRETE HEADWALL REMOVAL	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	81
50200100	STRUCTURE EXCAVATION	CU YD	10.4
50300100	FLOOR DRAINS	EACH	12
50300225	CONCRETE STRUCTURES	CU YD	72.3
50300255	CONCRETE SUPERSTRUCTURE	CU YD	160.3
50300260	BRIDGE DECK GROOVING	SQ YD	591.1
50300280	CONCRETE ENCASEMENT	CU YD	35.7
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	91.4
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1
50500505	STUD SHEAR CONNECTORS	EACH	2124
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	81352
51201400	FURNISHING STEEL PILES HP 10x42	FOOT	164
51201600	FURNISHING STEEL PILES HP 12x53	FOOT	168
51265001	DRILLING AND SETTING PILES (IN SOIL)	CU FT	728
51265002	DRILLING AND SETTING PILES (IN ROCK)	CU FT	202
51500100	NAME PLATES	EACH	1
52100520	ANCHOR BOLTS, 1"	EACH	32
54213471	END SECTIONS 36"	EACH	2
542C0241	PIPE CULVERT, CLASS C, TYPE 1, 36"	FOOT	64
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	40
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	2
60146304	PIPE UNDERDRAINS FOR STRUCTURES, 4"	FOOT	98

\* SPECIALTY ITEM

SUMMARY OF QUANTITIES			
CODE #	ITEM	UNIT	QUANTITY
* 63100080	TRAFFIC BARRIER TERMINAL, TYPE 5R	EACH	4
67100100	MOBILIZATION	L SUM	1
* 72501000	TERMINAL MARKERS-DIRECT APPLIED	EACH	4
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	4340
* 78200006	GUARDRAIL REFLECTORS TYPE B	EACH	4
X5021507	DEWATERING	L SUM	1
* X6310164	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	4
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
# Z0076600	TRAINEES	HOUR	1500
# Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1500

# 0042

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PLOT DATE =	9-30-2024	DATE --	9-30-2024	REVISED --	.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
4TH ST. BRIDGE REPLACEMENT

SCALE: AS SHOWN SHEET NO. 3 OF 34 SHEETS FIELD BOOK: HANCOCK COUNTY BOOK 1

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-00002-00-BR	HANCOCK	34	3
4th STREET	CONTRACT NO. 93824		

ILLINOIS JOB: C-96-101-21

20100500	
TREE REMOVAL (ACRES)	
LOCATION	ACRES
LT 11+13 TO 16+48	0.7
16+88 TO LT 20+75	0.4
TOTAL	1.1

EARTHWORK TABULATION						
	20200100	20400800			FOR INFORMATION ONLY	
	TABULATION FOR INFORMATION ONLY					
	EARTH EXCAVATION (TOTAL)	EARTH EXCAVATION FOR ROADWAY	STRIPPING	EARTH EXC (EXISTING RD)	FURNISHED EXCAVATION	EMBANKMENT
LOCATION	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
10+20 TO 16+12±	2402	106	1019	1277	4115	4195
17+18 TO 21+05	1668	134	671	864	2177	2277
EXCAVATION OF EXISTING ROADWAY OUTSIDE OF NEW CONSTRUCTION	1736	0	0	1736	0	0
TOTALS	5806	240	1690	3877	6292	6472

FURNISHED EXCAVATION =  
EMBANKMENT - EARTH EXCAVATION  
FOR ROADWAY x 0.75]]

EARTH EXCAVATION =  
EARTH EXCAVATION FOR ROADWAY  
+ STRIPPING + EARTH EXCAVATION  
(EXISTING ROAD)

EMBANKMENT FOR NEW ROADWAY SHALL BE  
CONSTRUCTED USING SUITABLE MATERIAL FROM  
EARTH EXCAVATION FOR ROADWAY AND  
FURNISHED EXCAVATION PRIOR TO REMOVAL OF  
THE EXISTING ROADWAY EMBANKMENT, EARTH  
EXCAVATION (EXISTING ROAD).  
REFER TO GENERAL NOTE 11, SHEET 2

SEEDING RELATED ITEMS							
	25000210	25000310	25000400	25000500	25000600	25000700	25100115
	SEEDING CLASS 2A	SEEDING CLASS 4	NITROGEN FERT NUTRIENT	PHOSPHORUS FERT NUTRIENT	POTASSIUM FERT NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH METHOD 2
LOCATION	ACRE	ACRE	POUND	POUND	POUND	TON	SQ YD
RT 10+00 TO 16+33	0.29	0.67	86.4	86.4	86.4	1.9	0.96
LT 10+00 TO 16+33	0.18	0.16	30.6	30.6	30.6	0.7	0.34
RT 17+00 TO 21+15	0.16	0.19	31.5	31.5	31.5	0.7	0.35
LT 17+00 TO 21+16	0.17	0.08	22.5	22.5	22.5	0.5	0.25
TOTALS	0.8	1.1	171	171	171	3.8	1.9

PAVEMENT RELATED ITEMS								
		35101400	40600275	40600290	40603080	40604050	42000070	48101200
	LENGTH	AGG BASE CSE TYPE B	BIT MATL PRIME COAT	BIT MATL TACK COAT	HMA BIND CSE IL-19.0 N50	HMA SURF CSE IL-19.0 MIX C, N50	PAVT CONN (HMA) FOR BRIDGE APPROACH SLAB	AGG SHOULDERS TYPE B
LOCATION	FEET	TON	POUND	POUND	TON	TON	SQ YD	TON
10+20.19 TO 11+12.89	92.70	98.1	595.8	97.6	27.6	18.1		15.4
11+12.89 TO 15+60.08	447.19	499.9	3035.3	497.5	140.5	92.3		107.6
15+60.08 TO 15+72.55	12.47						38.8	
17+62.57 TO 17+75.04	12.47						38.8	
17+75.04 TO 20+00.00	224.96	251.5	1526.9	250.3	70.7	46.5		55.4
20+00.00 TO 21+05.00	105.00	101.8	618.2	101.1	28.6	18.7		17.6
TOTALS		951	5776	947	267.4	175.6	78	196

TEMPORARY EROSION CONTROL			
	28000250	28000400	28000500
	TEMP EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION
LOCATION	POUND	FOOT	EACH
RT 10+00 TO 16+38	98	880	
RT 12+75 TO 15+24 (INTERIOR)		598	
LT 10+00 TO 16+38	34	655	
95' RT 12+64			1
103' RT 12+75			1
39' RT 12+99			1
RT 16+97 TO 21+21	36	558	
LT 16+97 TO 21+21	25	475	
TOTALS	193	3166.0	3

DRIVEWAY TABULATION		
		40200800
		AGG SURFACE CSE TYPE B
LOCATION	TYPE	TON
RT 19+10.20	PE	24
TOTAL		24

50105220		
PIPE CULVERT REMOVAL		
LOCATION	SIZE	FEET
77.5' RT 12.76	30"	40
86.1' RT 12.85.5	12"	41
TOTAL		81

50104400	
CONCRETE HEADWALL REMOVAL	
LOCATION	EACH
101.6' RT 12+76.2	1
TOTAL	1

DRAINAGE SCHEDULE			
	542C0241	54213471	60100060
	PIPE CULVERT CL C TY 1, 36"	END SECTIONS, 36"	CONCRETE HEADWALL FOR PIPE DRAINS
LOCATION	FOOT	EACH	EACH
CL STA 13+16.3	64	2	
27± LT 16+07			1
28± LT 17+38			1
TOTALS	64	2	2

TRAFFIC BARRIER TERMINALS				
	X6310164	63100080	72501000	78200006
	TRAFFIC BARRIER TERMINAL TYPE 1	TRAFFIC BARRIER TERMINAL TYPE 5R	TERMINAL MARKERS DIRECT APPLIED	GUARDRAIL REFLECTORS TYPE B
LOCATION	EACH	EACH	EACH	EACH
RT 15+46.83 TO 15+71.83	1		1	
RT 15+71.83 TO 15+85.08		1		
LT 15+51.76 TO 15+76.76	1		1	
LT 15+76.76 TO 15+90.01		1		
RT 15+85.08 TO 17+45.10				2
LT 15+90.01 TO 17+50.04				2
RT 17+45.10 TO 17+58.35		1		
RT 17+58.35 TO 17+83.35	1		1	
LT 17+50.04 TO 17+63.29		1		
LT 17+63.29 TO 17+88.29	1		1	
TOTALS	4	4	4	4

PAVEMENT MARKING SCHEDULE			
		78001120	
		PAINT PAVEMENT MARKING - LINE 5"	
		EDGE LINE 5" WHITE	NO PASSING 5" DOUBLE YELLOW
LOCATION	LENGTH (FT)	FOOT	FOOT
10+20 TO 21+05	1085	2170	2170
TOTAL		4340	

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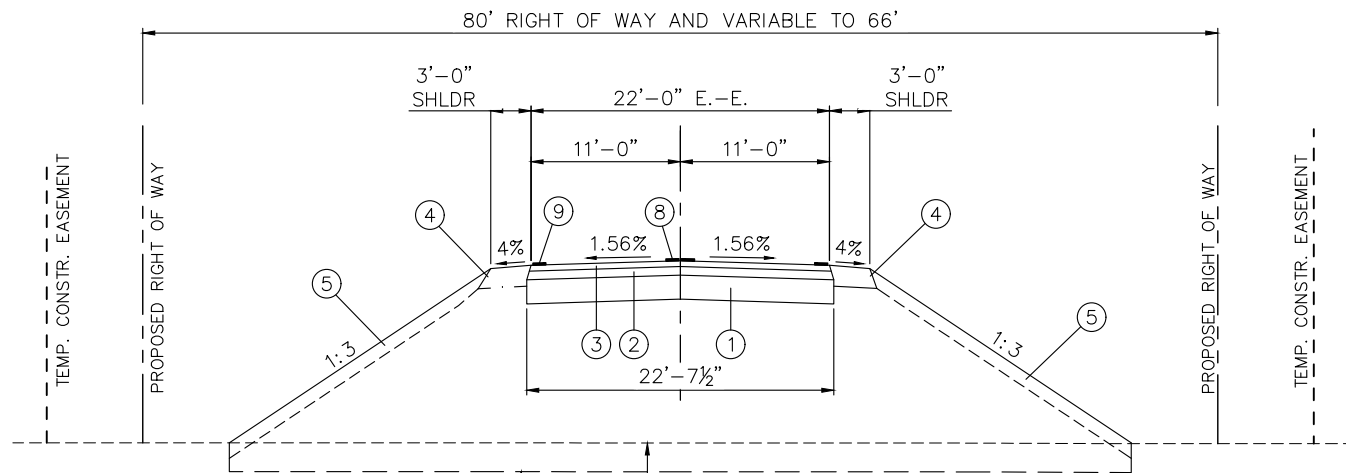
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES  
4TH ST. BRIDGE REPLACEMENT

SCALE: AS SHOWN SHEET NO. 4 OF 34 SHEETS FIELD BOOK: HANCOCK COUNTY BOOK 1

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-00002-00-BR	HANCOCK	34	4
4th STREET			
CONTRACT NO. 93824			
ILLINOIS JOB: C-96-101-21			



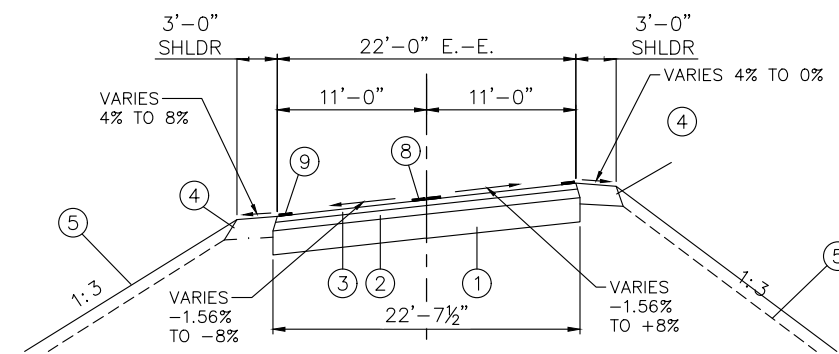


STRIP TOPSOIL AND VEGETATION IN ACCORDANCE WITH GEOTECHNICAL REPORT PRIOR TO PLACEMENT OF FILL MATERIAL. 12" OF MATERIAL HAS BEEN ESTIMATED TO DETERMINE THE QUANTITIES SHOWN ON THE PLANS. DEPTH OF STRIPPING MAY BE REDUCED OR INCREASED BASED ON THE MATERIAL FOUND AT TIME OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.

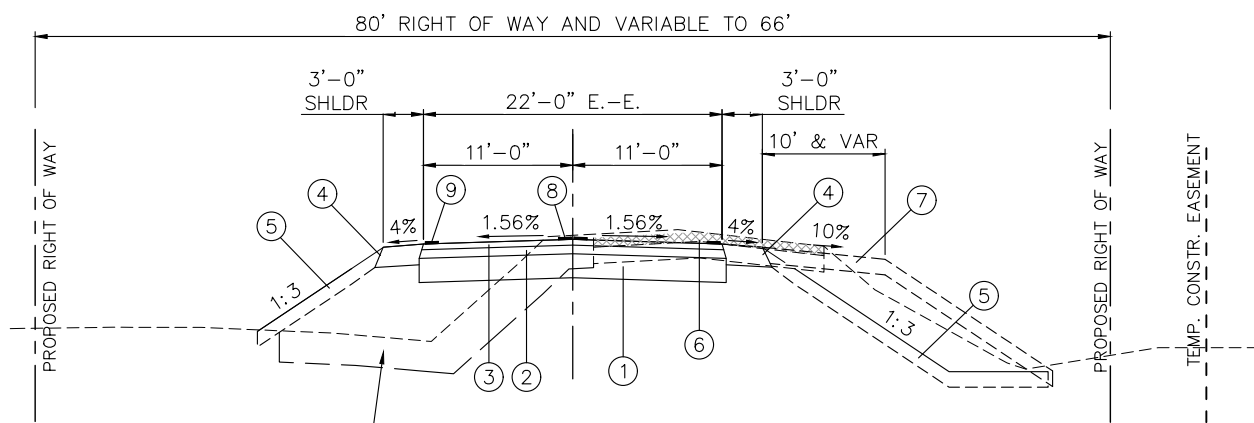
**TYPICAL ROADWAY SECTION 1**

STA. 12+50± TO STA. 15+25±

**NOTE:**  
ROAD AND SHOULDER SLOPES VARY THRU SUPERELEVATION AND TRANSITIONS. REFER TO TRANSITION DETAIL, SHEET 10



**TYPICAL ROADWAY THRU SUPER**



STRIP TOPSOIL AND VEGETATION PRIOR TO PLACEMENT OF FILL MATERIAL. (REFER TO STRIPPING NOTE ON SECTION 1 FOR ADDITIONAL INFORMATION)

**TYPICAL ROADWAY SECTION 2**

STA. 10+20.19 TO STA. 12+50±  
STA. 15+25± TO STA. 15+60.08  
STA. 17+75.03 TO 21+05.0

**NOTE:**  
ROAD AND SHOULDER SLOPES VARY THRU SUPERELEVATION AND TRANSITIONS. REFER TO TRANSITION DETAIL, SHEET 10

**TYPICAL SECTION LEGEND**

- ① PROPOSED AGGREGATE BASE COURSE, TYPE B, 8"
- ② PROPOSED 2¼" HMA BINDER COURSE, IL-19.0, N50 (PLACED IN ONE LIFT)
- ③ PROPOSED HMA SURFACE COURSE, MIX C, N50, 1½"
- ④ AGGREGATE SHOULDER TYPE B, 6"
- ⑤ 4" VEGETATION SUSTAINING MATERIAL, REFER TO GENERAL NOTE 12, SHEET 2
- ⑥ PAVEMENT REMOVAL, REFER TO GENERAL NOTE 5, SHEET 2.
- ⑦ SHOULDER WIDENING FOR TRAFFIC BARRIER TERMINAL TYPE 1 WHERE SHOWN ON PLAN, REFER STD. BLR 23-4
- ⑧ DOUBLE PAINT PAVEMENT MARKING LINE, 5" (YELLOW) NO PASSING LINES, TOTAL LENGTH OF PROJECT
- ⑨ PAINT PAVEMENT MARKING LINE, 5" (WHITE) EDGE LINES TOTAL LENGTH OF PROJECT, EACH SIDE

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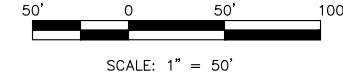
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS  
4TH ST. BRIDGE REPLACEMENT

SCALE: AS SHOWN SHEET NO. 5 OF 34 SHEETS FIELD BOOK: HANCOCK COUNTY BOOK 1

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-0002-00-BR	HANCOCK	34	5
4th STREET		CONTRACT NO. 93824	
ILLINOIS JOB: C-96-101-21			

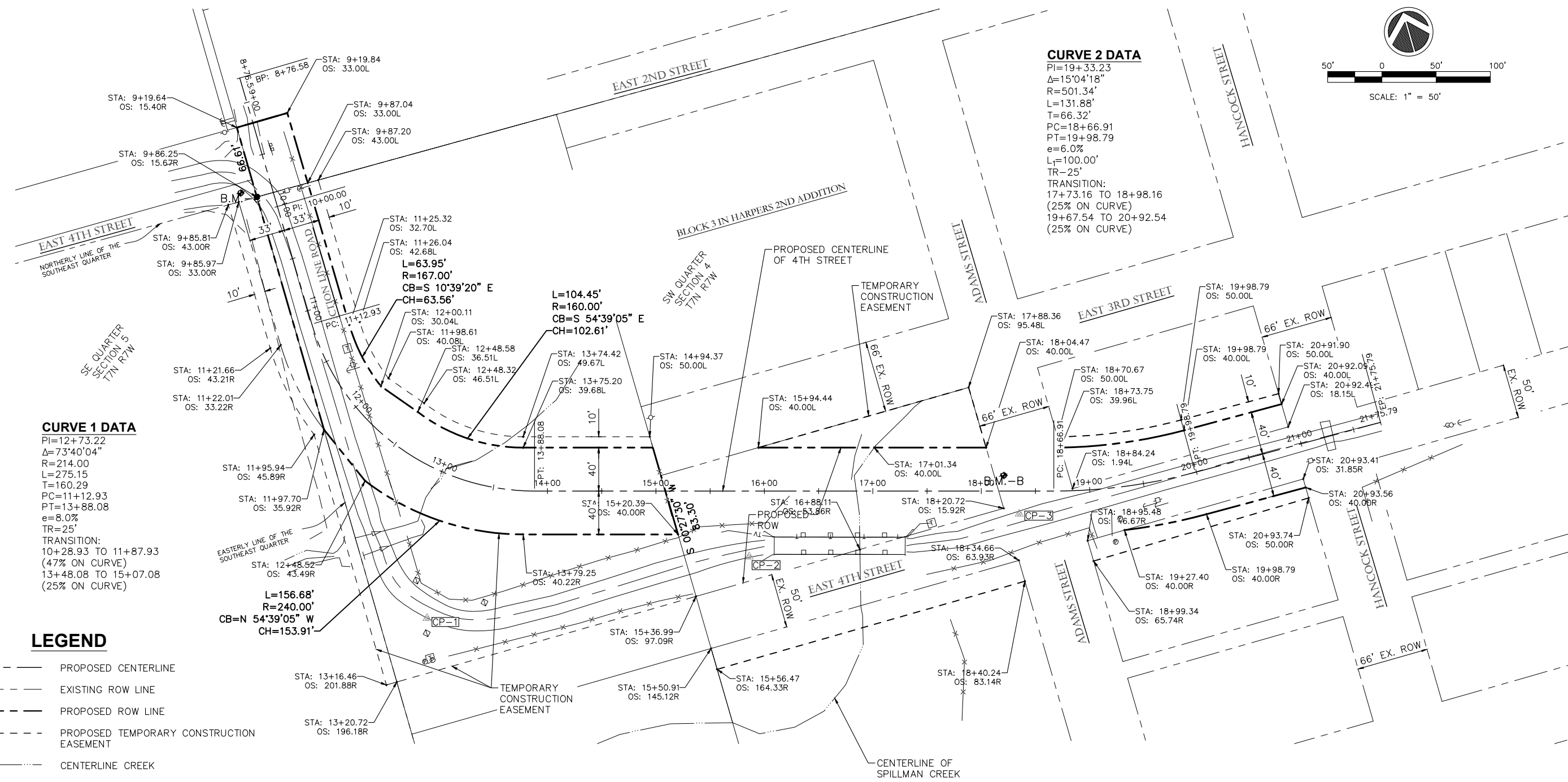


**CURVE 2 DATA**  
 PI=19+33.23  
 $\Delta=15^{\circ}04'18''$   
 R=501.34'  
 L=131.88'  
 T=66.32'  
 PC=18+66.91  
 PT=19+98.79  
 e=6.0%  
 L<sub>v</sub>=100.00'  
 TR=25'  
 TRANSITION:  
 17+73.16 TO 18+98.16  
 (25% ON CURVE)  
 19+67.54 TO 20+92.54  
 (25% ON CURVE)

**CURVE 1 DATA**  
 PI=12+73.22  
 $\Delta=73^{\circ}40'04''$   
 R=214.00  
 L=275.15  
 T=160.29  
 PC=11+12.93  
 PT=13+88.08  
 e=8.0%  
 TR=25'  
 TRANSITION:  
 10+28.93 TO 11+87.93  
 (47% ON CURVE)  
 13+48.08 TO 15+07.08  
 (25% ON CURVE)

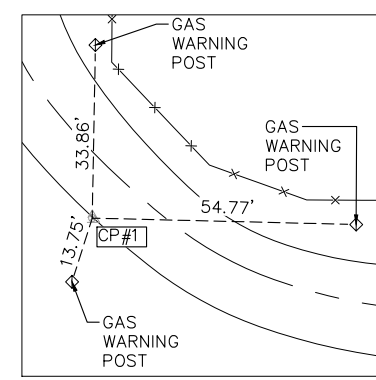
**LEGEND**

- PROPOSED CENTERLINE
- - - EXISTING ROW LINE
- - - PROPOSED ROW LINE
- - - PROPOSED TEMPORARY CONSTRUCTION EASEMENT
- CENTERLINE CREEK

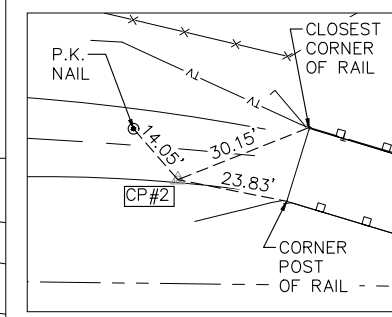


HORIZONTAL CONTROL - NAD 83			
POINT #	NORTHING	EASTING	DESCRIPTION
1	1445181.9240	2005699.1130	5/8"Ø Iron Rod with Blue Cap Stamped "IMEG Control"
2	1445151.0370	2005999.9950	5/8"Ø Iron Rod with Blue Cap Stamped "IMEG Control"
3	1445117.4800	2006249.8830	5/8"Ø Iron Rod with Blue Cap Stamped "IMEG Control"
4	1445084.5590	2007131.9120	5/8"Ø Iron Rod with Blue Cap Stamped "IMEG Control"

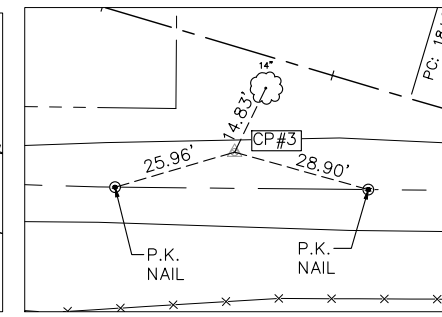
VERTICAL CONTROL - NAVD 88		
POINT #	DESCRIPTION	ELEVATION
A	RR SPIKE NORTH FACE POWER POLE SOUTH SIDE 4TH STREET AND 100'+/- WEST OF FULTON STREET	527.21
B	RR SPIKE SOUTH FACE OF POWER POLE 50' NORTH OF CP #3	524.85
C	RR SPIKE SOUTHEAST FACE POWER POLE SECTION ROAD AND RIO VISTA ROAD	526.03



**CONTROL POINT #1**



**CONTROL POINT #2**



**CONTROL POINT #3**

**CONTROL POINT TIES**

Alignment PI Station Report				
Alignment Name: PROP 4TH ST CENTERLINE				
Station Range: Start: 8+76.58, End: 21+75.79				
PI STATION	NORTHING	EASTING	DISTANCE	DIRECTION
8+76.58	1,445,708.30'	2,005,676.30'	123.42'	S 0°18'50" W
10+00.00	1,445,584.89'	2,005,675.63'	273.22'	S 0°18'50" W
12+73.22	1,445,311.67'	2,005,674.13'	705.44'	S 73°21'14" E
19+33.23	1,445,109.59'	2,006,350.00'	243.33'	S 88°25'32" E
21+75.79	1,445,102.90'	2,006,593.24'		

CP-4 (NOT SHOWN ON PLAN)  
 NEAR SOUTH EDGE OF PAVEMENT APPROXIMATELY 882.6' EAST OF CONTROL POINT 3

BENCH MARK-A NOT SHOWN ON PLAN. LOCATED APPROX. 810' EAST OF STA. 21+00

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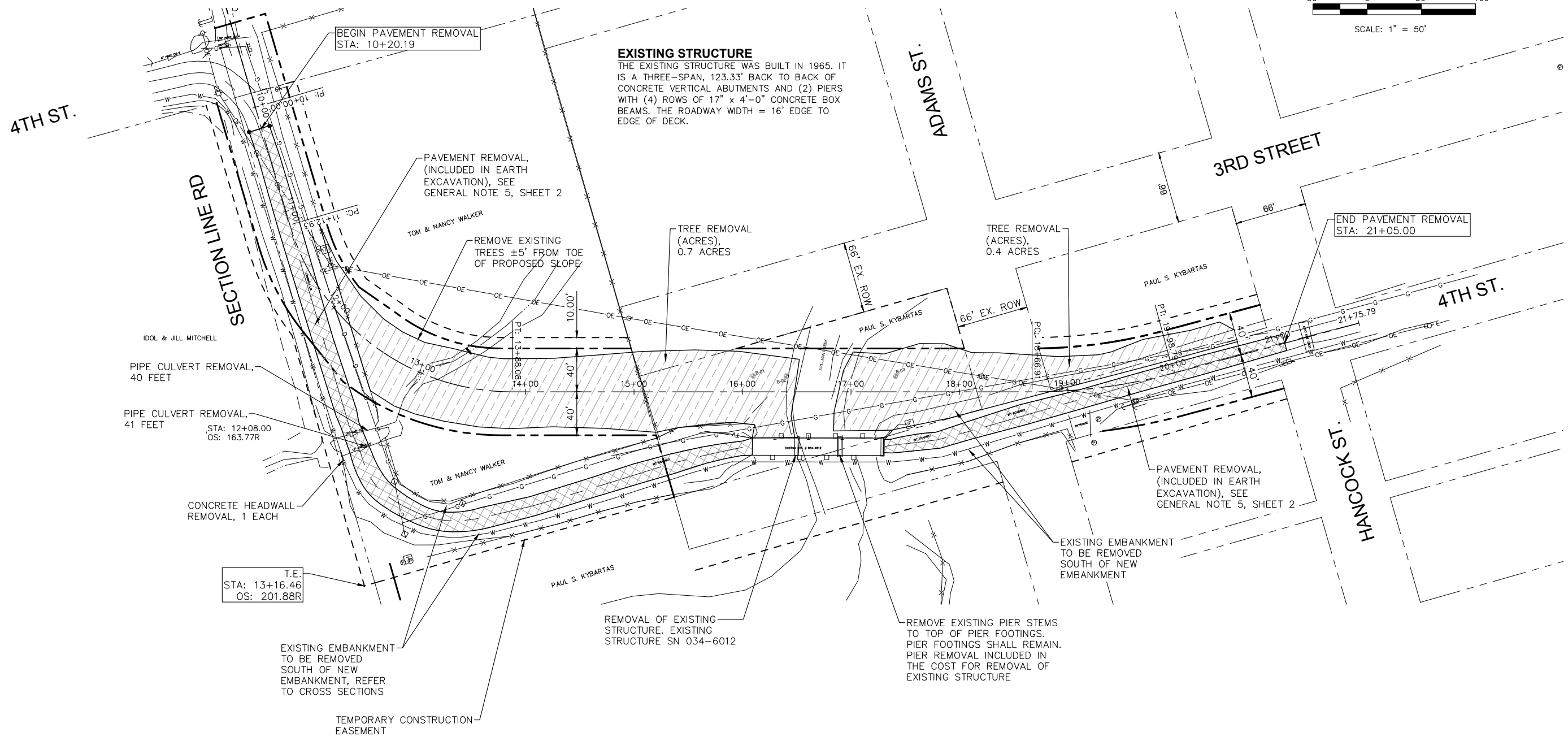
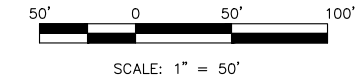
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PLOT SCALE = AS SHOWN	DRAWN — TAB	REVISED —
PLOT DATE = 9-30-2024	CHECKED — WJD/TAB	REVISED —
	DATE — 9-30-2024	REVISED —

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT AND RIGHT OF WAY PLAN  
 4TH ST. BRIDGE REPLACEMENT  
 PONTOSUC, ILLINOIS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-0002-00-BR	HANCOCK	34	6
4th STREET		CONTRACT NO. 93824	
ILLINOIS		JOB: C-96-101-21	

SCALE: AS SHOWN SHEET NO. 6 OF 34 SHEETS FIELD BOOK: HANCOCK COUNTY BOOK 1



**EXISTING STRUCTURE**  
 THE EXISTING STRUCTURE WAS BUILT IN 1965. IT IS A THREE-SPAN, 123.33' BACK TO BACK OF CONCRETE VERTICAL ABUTMENTS AND (2) PIERS WITH (4) ROWS OF 17" x 4'-0" CONCRETE BOX BEAMS. THE ROADWAY WIDTH = 16' EDGE TO EDGE OF DECK.

BEGIN PAVEMENT REMOVAL  
 STA: 10+20.19

END PAVEMENT REMOVAL  
 STA: 21+05.00

T.E.  
 STA: 13+16.46  
 OS: 201.88R

REMOVAL OF EXISTING  
 STRUCTURE. EXISTING  
 STRUCTURE SN 034-6012

REMOVE EXISTING PIER STEMS  
 TO TOP OF PIER FOOTINGS.  
 PIER FOOTINGS SHALL REMAIN.  
 PIER REMOVAL INCLUDED IN  
 THE COST FOR REMOVAL OF  
 EXISTING STRUCTURE

4TH ST.

SECTION NINE RD

ADAMS ST.

3RD STREET

4TH ST.

HANCOCK ST.

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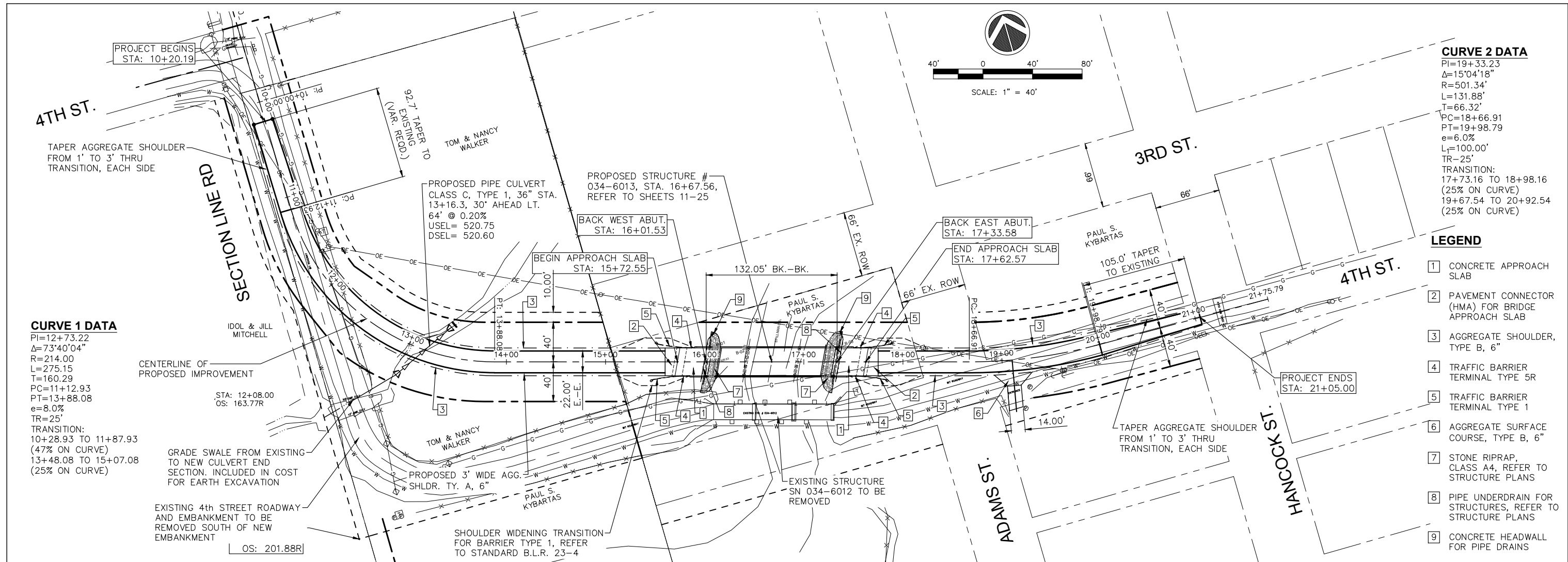
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PLOT DATE =	9-30-2024	DATE --	9-30-2024	REVISED --

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DEMOLITION PLAN  
 4TH ST. BRIDGE REPLACEMENT**  
PONTOSUC, ILLINOIS

SCALE: AS SHOWN | SHEET NO. 7 OF 34 SHEETS | FIELD BOOK: HANCOCK COUNTY BOOK I

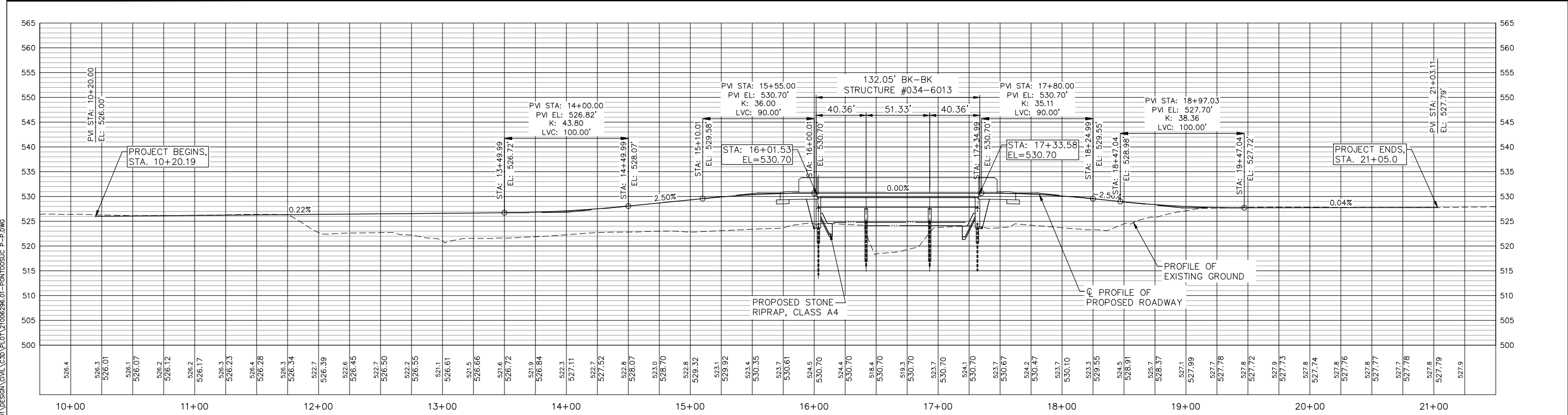
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-0002-00-BR	HANCOCK	34	7
4th STREET	CONTRACT NO. 93824		
ILLINOIS		JOB: C-96-101-21	



**CURVE 2 DATA**  
 PI=19+33.23  
 Δ=15°04'18"  
 R=501.34'  
 L=131.88'  
 T=66.32'  
 PC=18+66.91  
 PT=19+98.79  
 e=6.0%  
 L<sub>v</sub>=100.00'  
 TR=25'  
 TRANSITION:  
 17+73.16 TO 18+98.16  
 (25% ON CURVE)  
 19+67.54 TO 20+92.54  
 (25% ON CURVE)

**CURVE 1 DATA**  
 PI=12+73.22  
 Δ=73°40'04"  
 R=214.00'  
 L=275.15'  
 T=160.29'  
 PC=11+12.93  
 PT=13+88.08  
 e=8.0%  
 TR=25'  
 TRANSITION:  
 10+28.93 TO 11+87.93  
 (47% ON CURVE)  
 13+48.08 TO 15+07.08  
 (25% ON CURVE)

- LEGEND**
- 1 CONCRETE APPROACH SLAB
  - 2 PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
  - 3 AGGREGATE SHOULDER, TYPE B, 6"
  - 4 TRAFFIC BARRIER TERMINAL TYPE 5R
  - 5 TRAFFIC BARRIER TERMINAL TYPE 1
  - 6 AGGREGATE SURFACE COURSE, TYPE B, 6"
  - 7 STONE RIPRAP, CLASS A4, REFER TO STRUCTURE PLANS
  - 8 PIPE UNDERDRAIN FOR STRUCTURES, REFER TO STRUCTURE PLANS
  - 9 CONCRETE HEADWALL FOR PIPE DRAINS



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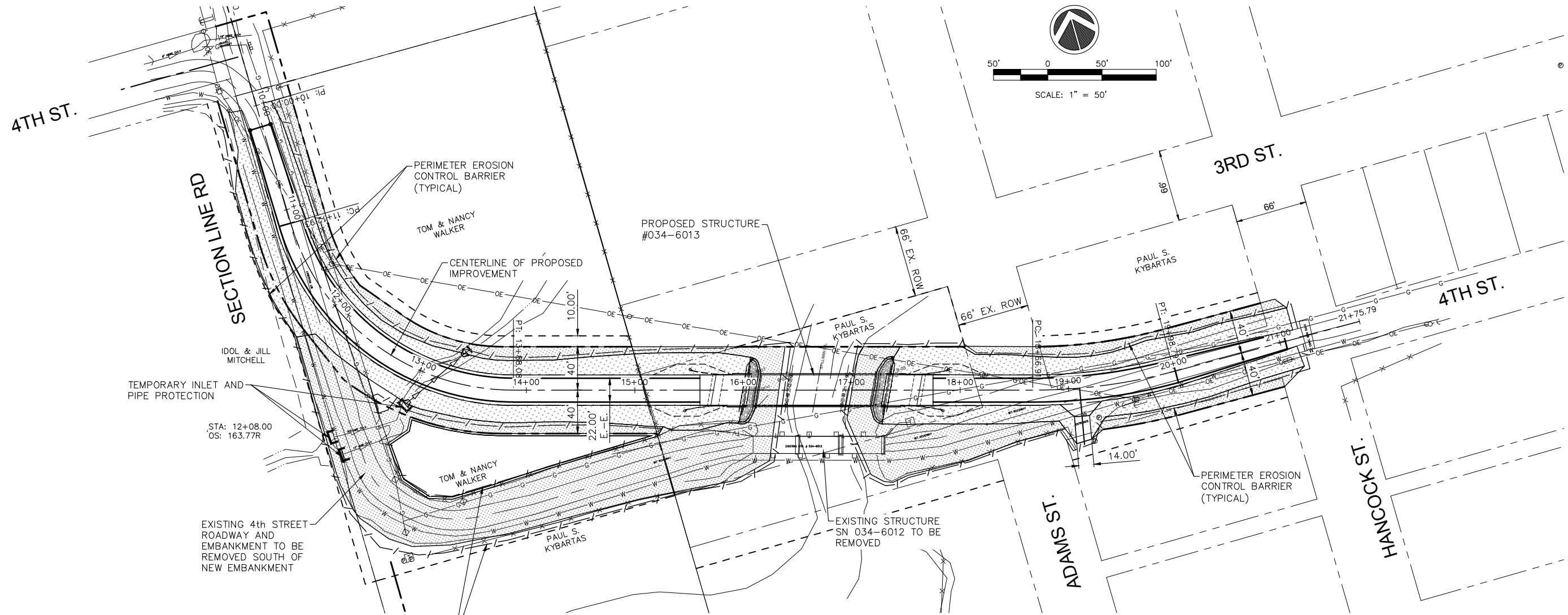
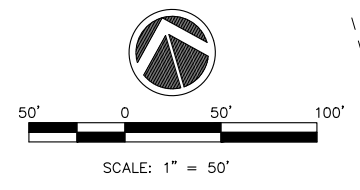
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE**  
**4TH ST. BRIDGE REPLACEMENT**  
PONTOSUC, ILLINOIS



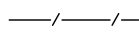


SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-0002-00-BR	HANCOCK	34	8
4th STREET	CONTRACT NO. 93824		
ILLINOIS JOB: C-96-101-21			

SCALE: AS SHOWN | SHEET NO. 8 OF 34 SHEETS | FIELD BOOK: HANCOCK COUNTY BOOK I





**SEEDING AND EROSION CONTROL LEGEND**

-  SEEDING CLASS 2A W/ MULCH, METHOD 2
-  SEEDING CLASS 4 W/ MULCH, METHOD 2
-  TEMPORARY PERIMETER EROSION CONTROL BARRIER
-  TEMPORARY INLET AND PIPE PROTECTION
-  STONE RIPRAP CLASS A4 (PERMANENT)

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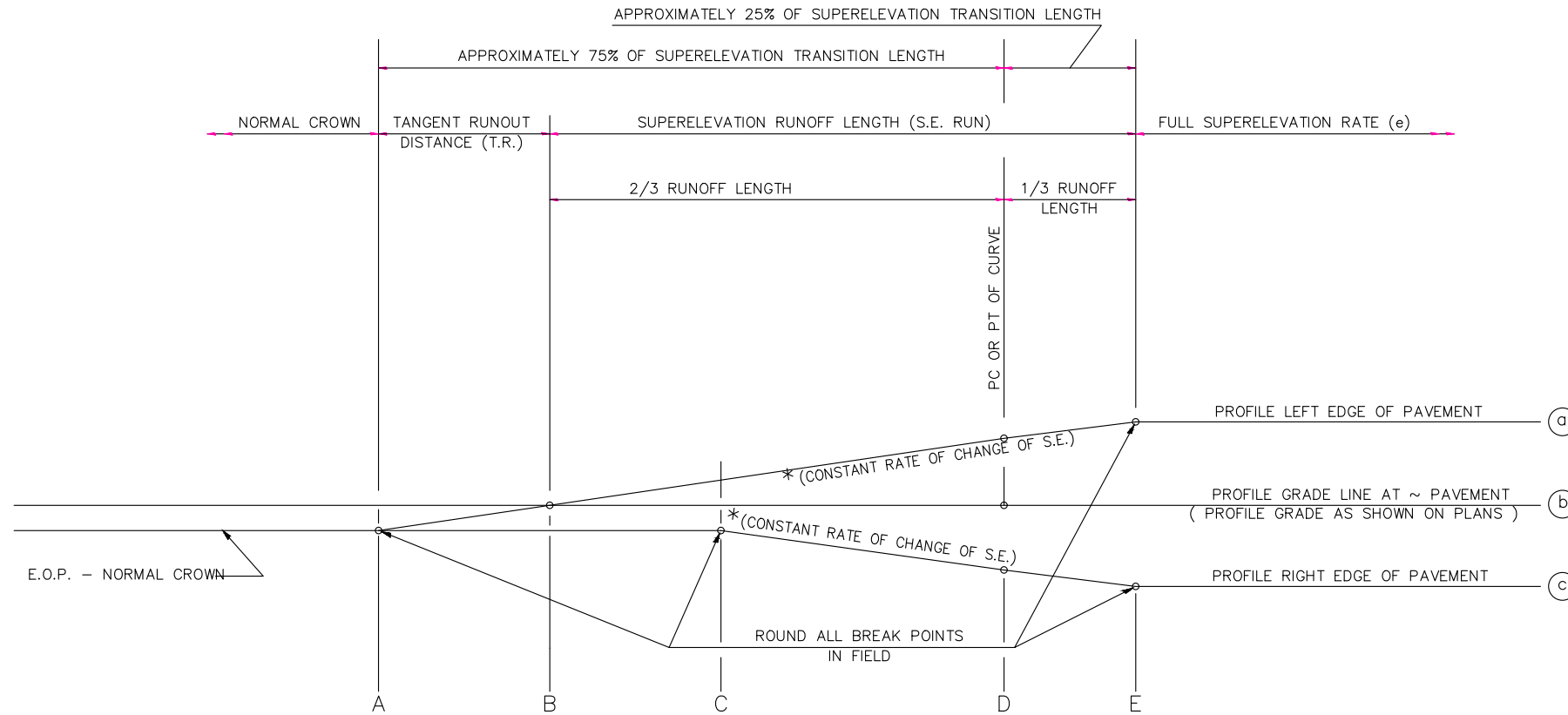
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PLOT DATE =					

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SEEDING AND EROSION CONTROL PLAN  
4TH ST. BRIDGE REPLACEMENT**  
PONTIAC, ILLINOIS

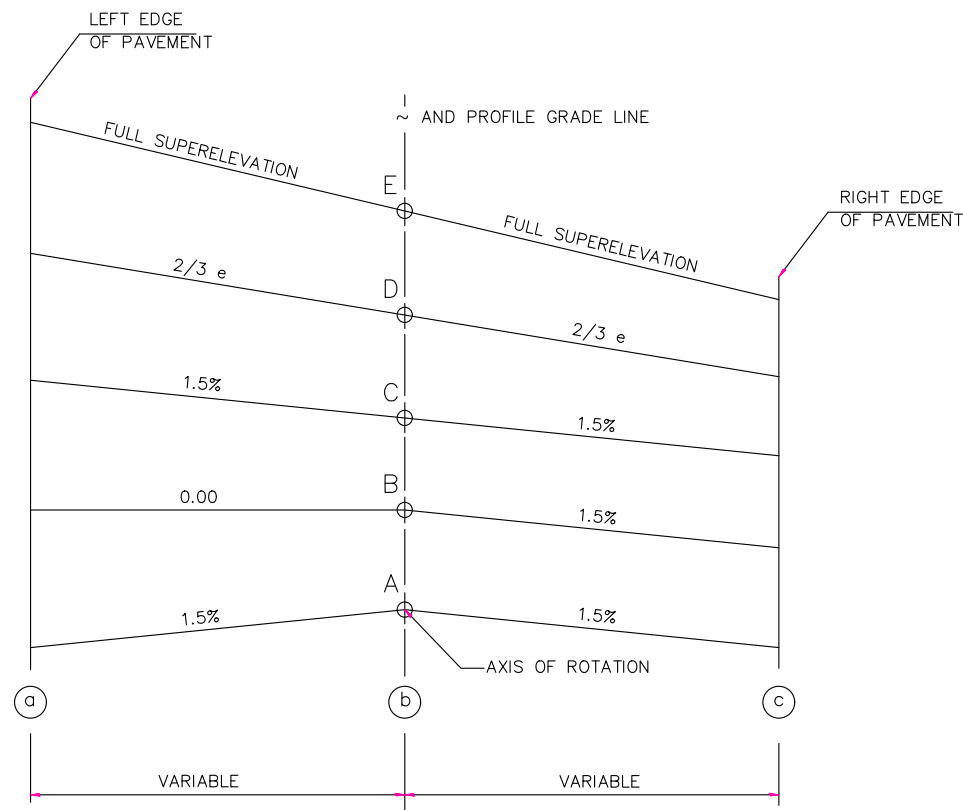
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SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-00002-00-BR	HANCOCK	34	9
4th STREET	CONTRACT NO. 93824		
ILLINOIS		JOB: C-96-101-21	



TYPICAL PROFILE - S.E. TRANSITION

SEE PLANS FOR CURVE DATA INFORMATION  
 CURVE DATA  
 P.I. STA=  
 L=  
 R=  
 T=  
 L=  
 E=  
 e= SUPERELEVATION RATE IN PERCENT  
 T.R.= TANGENT RUNOUT DISTANCE  
 S.E. RUN= SUPERELEVATION RUNOFF LENGTH  
 P.C. STA=  
 P.T. STA=



TYPICAL CROSS SECTION - S.E. TRANSITION

CURVE NO.	e	A	B	C	D	E	TRANSITION
#1	8%	10+28.93	10+53.93	10+80.82	11+12.93	11+87.97	Trans. In
		15+07.08	14+82.08	14+55.18	13+88.08	13+48.08	Trans. Out
#2	6%	17+73.16	17+88.95	18+24.75	18+66.91	18+98.16	Trans. In
		20+92.54	20+66.75	20+40.95	19+98.79	19+67.54	Trans. Out

SUPERELEVATION TRANSITION  
 DETAIL FOR TWO LANE HIGHWAY

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PLOT DATE =	DATE - 9-30-2024	REVISED - 9-30-2024

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUPERELEVATION TRANSITION DETAIL  
 4TH ST. BRIDGE REPLACEMENT

SCALE: AS SHOWN | SHEET NO. 10 OF 34 SHEETS | FIELD BOOK: HANCOCK COUNTY BOOK I

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-00002-00-BR	HANCOCK	34	10
4th STREET		CONTRACT NO. 93824	
ILLINOIS JOB: C-96-101-21			

**Existing Structure:** S.N. 034-6012 was originally built in 1900 and reconstructed in 1965 at Sta. 16+70.00 as a three-span Continuous Precast Prestressed Concrete Deck Beam structure over Spillman Creek. 121.2' back-back of abutments and 16'-0" out to out of deck. The new bridge will be on a new alignment since the existing bridge will be in service.

**Benchmark:** Top of Northeast wingwall of structure, Sta. 17+36 16' Lt. Elev. 530.60

**INDEX OF BRIDGE SHEETS**

- 1 GENERAL PLAN & ELEVATION
- 2 GENERAL NOTES & BILL OF MATERIALS
- 3 TOP OF SLAB ELEVATIONS
- 4 TOP OF SLAB ELEVATIONS
- 5 SUPERSTRUCTURE
- 6 SUPERSTRUCTURE DETAILS
- 7 DIAPHRAGM DETAILS
- 8 STRUCTURAL STEEL DETAILS
- 8 STRUCTURAL STEEL DETAILS
- 10 BEARING DETAILS
- 11 BRIDGE APPROACH SLAB DETAILS
- 12 BRIDGE APPROACH SLAB DETAILS
- 13 WEST ABUTMENT DETAILS
- 14 EAST ABUTMENT DETAILS
- 15 PIER DETAILS
- 16 PILE DETAILS
- 17 SOIL AND ROCK BORING LOGS

**LOADING HL-93**

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

**DESIGN SPECIFICATIONS**

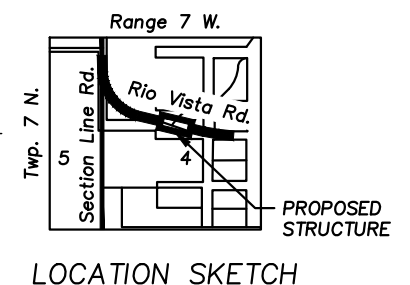
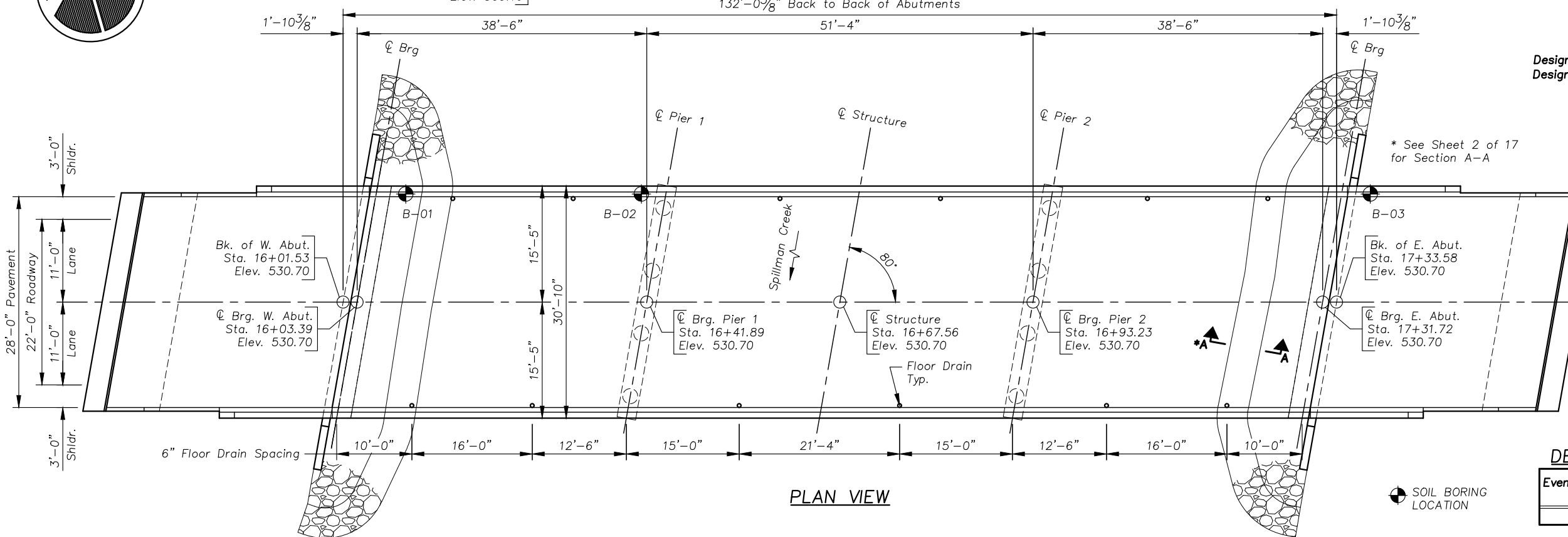
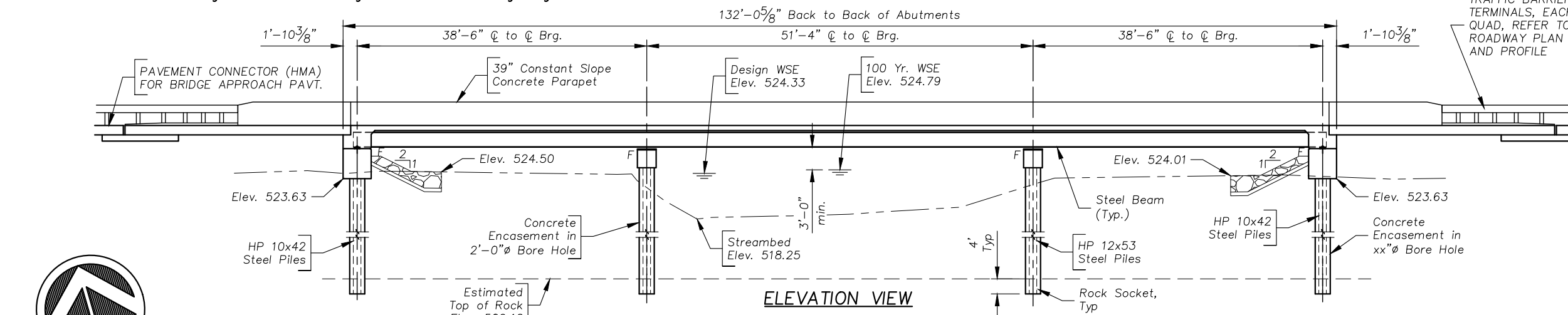
2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

**SEISMIC DATA**

Seismic performance zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.072  
 Design Spectral Acceleration at 2.0 sec. (SDS) = 0.105  
 Soil Site Class = C

**PROPOSED FIELD UNITS**

$f_c$  = 3,500 psi (Abutment)  
 $f_c$  = 4,000 psi (Deck)  
 $f_y$  = 60,000 psi (Reinforcement)  
 $f_y$  = 50,000 psi (Structural Steel)



**DESIGN SCOUR ELEVATION TABLE**

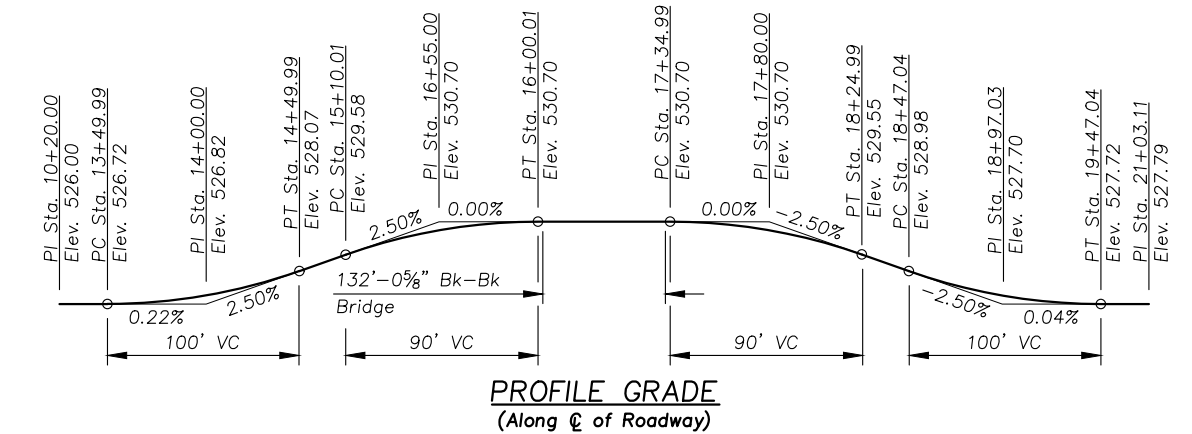
Event / Limit State	Design Scour Elevations (Ft.)			
	W. Abut.	Pier 1	Pier 2	E. Abut.
Q100	522.54	523.83	523.86	522.91

**WATERWAY INFORMATION**

Flood	Freq. Yr.	Q C.F.S.	Opening Ft. <sup>2</sup>		Nat. H.W.E.	Head-Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	30	3,000	500	534	524.33	2.69	2.74	527.02	527.07
Base	100	4,090	592	577	524.79	3.20	2.96	527.99	527.75
Scour Design Check	100	4,090	592	577	524.79	3.20	2.96	527.99	527.75
Overtopping									
Max. Calc	500	5,630	671	624	525.31	3.62	3.15	528.93	528.46

**SPILLMAN CREEK  
 BUILT 2025 BY  
 VILLAGE OF PONTOOSUC  
 SECTION 20-00002-00-BR  
 4TH STREET  
 STR. NO. 034-6013  
 LOADING HL-93**

**NAME PLATE LETTERING**  
 Refer To Std. 515001



USER NAME = TAS	DESIGNED — YL	REVISED —
PLOT SCALE =	DRAWN — TAS	REVISED —
PLOT DATE = 9-30-2024	CHECKED — AAG	REVISED —
	DATE — 9-30-2024	REVISED —

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION  
 4TH ST. BRIDGE REPLACEMENT**

PONTOOSUC, ILLINOIS

SHEET NO. 1 OF 17 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-00002-00-BR	HANCOCK	34	11
4th STREET		CONTRACT NO. 93824	
ILLINOIS			

**BILL OF MATERIALS**

PAY ITEM	ITEM	UNIT	SUPER	SUB	TOTAL
20700220	POROUS GRANULAR EMBANKMENT	CY	---	93.4	93.4
50200100	STRUCTURE EXCAVATION	CY	---	10.4	10.4
50300225	CONCRETE STRUCTURES	CY	---	72.3	72.3
50300255	CONCRETE SUPERSTRUCTURE	CY	160.3	---	160.3
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CY	91.4	---	91.4
42001300	PROTECTIVE COAT	SY	740.2	---	740.2
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	LS	1	---	1
50300260	BRIDGE DECK GROOVING	SY	591.1	---	591.1
50800205	REINFORCEMENT BARS, EPOXY COATED	LB	73563	7789	81352
51265001	DRILLING AND SETTING PILES (IN SOIL)	CF	---	728	728
51265002	DRILLING AND SETTING PILES (IN ROCK)	CF	---	202	202
51201400	FURNISHING STEEL PILES HP 10x42	FT	---	164	164
51201600	FURNISHING STEEL PILES HP 12x53	FT	---	168	168
50300100	FLOOR DRAINS	EA	12	---	12
51500100	NAME PLATES	EA	1	---	1
52100520	ANCHOR BOLTS, 1"	EA	---	32	32
28100207	STONE RIPRAP, CLASS A4	TN	---	123	123
28200200	FILTER FABRIC	SY	---	124.6	124.6
50300280	CONCRETE ENCASEMENT	CY	---	35.7	35.7
50500505	STUD SHEER CONNECTORS	EA	2124	---	2124
59100100	GEOCOMPOSITE WALL DRAIN	SY	---	40	40
60146304	PIPE UNDERDRAIN FOR STRUCTURES, 4"	FT	---	98.3	98.3
X5021507	DEWATERING	LS	---	1	1

**GENERAL NOTES:**

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts, bolts 7/8"  $\phi$ , holes 15/16"  $\phi$ , unless otherwise noted.

Calculated weight of Structural Steel = 45,628 Lbs.

All structural steel shall be AASHTO M 270 Grade 50.

All structural steel girders, cross-frames, and exposed surfaces of bearings within a distance of 12 ft. longitudinally from the end of each girder web shall be metallized and shop painted with System 3. The color of the final finish coat of paint shall be Gray Munsell No. 5B 7/1. See special provision for "Metallizing of Structural Steel".

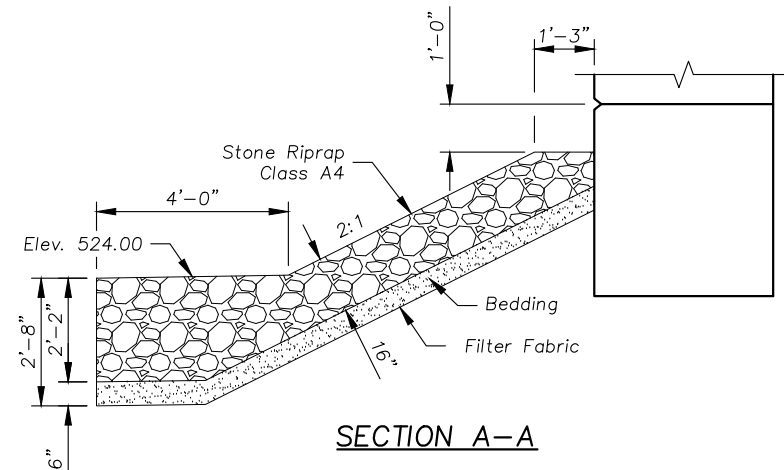
No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

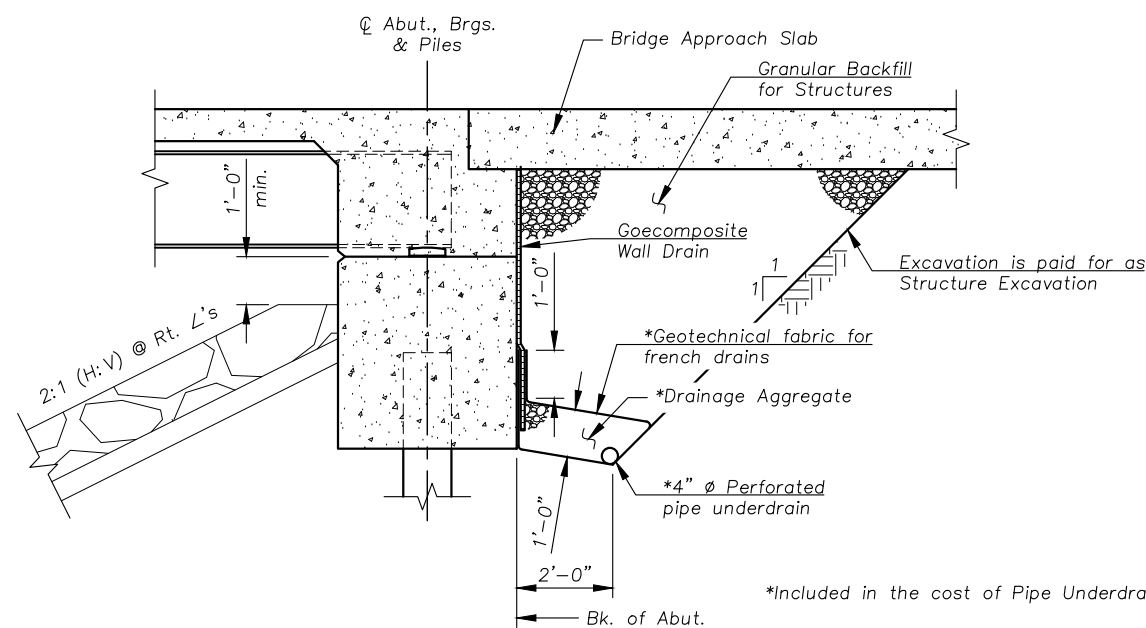
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Slipforming of parapets is not allowed

Bearing seat surfaces shall be constructed or adjusted to their designated elevation within the tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

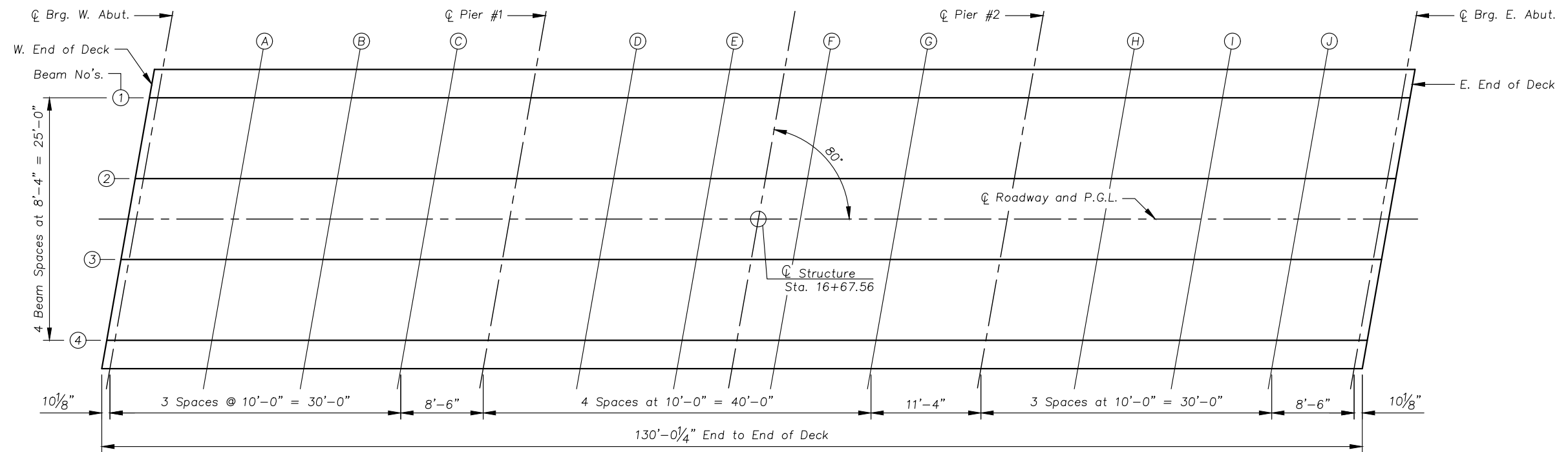


**SECTION A-A**

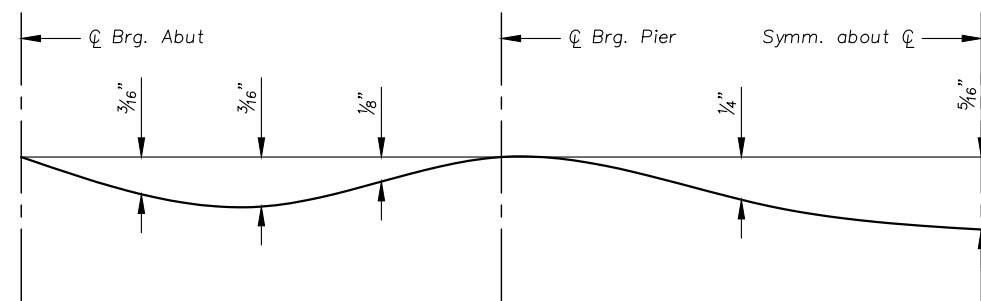
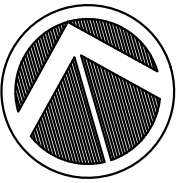


**SECTION THRU INTEGRAL ABUTMENT**  
(Horiz. dim. @ Rt.  $\angle$ 's)

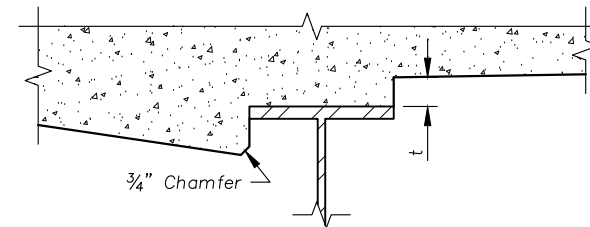
\*Included in the cost of Pipe Underdrains for Structures  
All drainage system components shall extend to 2'-0" for the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



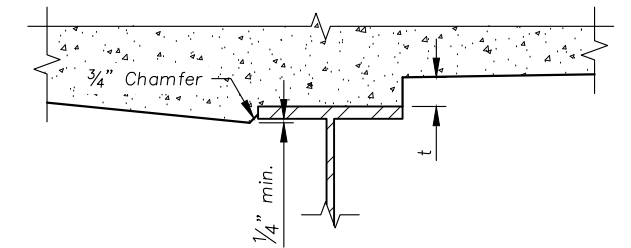
PLAN VIEW



DEAD LOAD DEFLECTION DIAGRAM  
(Includes weight of concrete only.)



AT MINIMUM FILLET



AT MAXIMUM FILLET

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown above, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

**NOTE:**  
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



USER NAME = TAS	DESIGNED — YL	REVISED —
	DRAWN — TAS	REVISED —
PLOT SCALE =	CHECKED — AAG	REVISED —
PLOT DATE = 9-30-2024	DATE — 9-30-2024	REVISED —

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS  
4TH ST. BRIDGE REPLACEMENT

PONTIAC, ILLINOIS  
SHEET NO. 3 OF 17 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-00002-00-BR	HANCOCK	34	13
4th STREET		CONTRACT NO. 93824	
ILLINOIS			



CENTERLINE OF ROADWAY & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck	16+02.54	0.00	530.70	530.70
CL Brg. W. Abut	16+03.39	0.00	530.70	530.70
A	16+13.39	0.00	530.70	530.71
B	16+23.39	0.00	530.70	530.72
C	16+33.39	0.00	530.70	530.71
CL Brg. Pier #1	16+41.89	0.00	530.70	530.70
D	16+51.89	0.00	530.70	530.72
E	16+61.89	0.00	530.70	530.73
F	16+71.89	0.00	530.70	530.73
G	16+81.89	0.00	530.70	530.72
CL Brg. Pier #2	16+93.23	0.00	530.70	530.70
H	17+03.23	0.00	530.70	530.71
I	17+13.23	0.00	530.70	530.72
J	17+23.23	0.00	530.70	530.71
CL Brg. E. Abut.	17+31.72	0.00	530.70	530.70
E. End of Deck	17+32.57	0.00	530.70	530.70

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck	16+04.75	-12.50	530.51	530.51
CL Brg. W. Abut	16+05.59	-12.50	530.51	530.51
A	16+15.59	-12.50	530.51	530.52
B	16+25.59	-12.50	530.51	530.53
C	16+35.59	-12.50	530.51	530.52
CL Brg. Pier #1	16+44.09	-12.50	530.51	530.51
D	16+54.09	-12.50	530.51	530.53
E	16+64.09	-12.50	530.51	530.54
F	16+74.09	-12.50	530.51	530.54
G	16+84.09	-12.50	530.51	530.53
CL Brg. Pier #2	16+95.43	-12.50	530.51	530.51
H	17+05.43	-12.50	530.51	530.52
I	17+15.43	-12.50	530.51	530.53
J	17+25.43	-12.50	530.51	530.52
CL Brg. E. Abut.	17+33.92	-12.50	530.51	530.51
E. End of Deck	17+34.77	-12.50	530.51	530.51

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck	16+03.28	-4.17	530.64	530.64
CL Brg. W. Abut	16+04.12	-4.17	530.64	530.64
A	16+14.12	-4.17	530.64	530.65
B	16+24.12	-4.17	530.64	530.66
C	16+34.12	-4.17	530.64	530.65
CL Brg. Pier #1	16+42.62	-4.17	530.64	530.64
D	16+52.62	-4.17	530.64	530.66
E	16+62.62	-4.17	530.64	530.67
F	16+72.62	-4.17	530.64	530.67
G	16+82.62	-4.17	530.64	530.66
CL Brg. Pier #2	16+93.96	-4.17	530.64	530.64
H	17+03.96	-4.17	530.64	530.65
I	17+13.96	-4.17	530.64	530.66
J	17+23.96	-4.17	530.64	530.65
CL Brg. E. Abut.	17+32.45	-4.17	530.64	530.64
E. End of Deck	17+33.30	-4.17	530.64	530.64

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck	16+01.81	4.17	530.64	530.64
CL Brg. W. Abut	16+02.66	4.17	530.64	530.64
A	16+12.66	4.17	530.64	530.65
B	16+22.66	4.17	530.64	530.66
C	16+32.66	4.17	530.64	530.65
CL Brg. Pier #1	16+41.16	4.17	530.64	530.64
D	16+51.16	4.17	530.64	530.66
E	16+61.16	4.17	530.64	530.67
F	16+71.16	4.17	530.64	530.67
G	16+81.16	4.17	530.64	530.66
CL Brg. Pier #2	16+92.49	4.17	530.64	530.64
H	17+02.49	4.17	530.64	530.65
I	17+12.49	4.17	530.64	530.66
J	17+22.49	4.17	530.64	530.65
CL Brg. E. Abut.	17+30.98	4.17	530.64	530.64
E. End of Deck	17+31.83	4.17	530.64	530.64

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
W. End of Deck	16+00.34	12.50	530.51	530.51
CL Brg. W. Abut	16+01.19	12.50	530.51	530.51
A	16+11.19	12.50	530.51	530.52
B	16+21.19	12.50	530.51	530.53
C	16+31.19	12.50	530.51	530.52
CL Brg. Pier #1	16+39.69	12.50	530.51	530.51
D	16+49.69	12.50	530.51	530.53
E	16+59.69	12.50	530.51	530.54
F	16+69.69	12.50	530.51	530.54
G	16+79.69	12.50	530.51	530.53
CL Brg. Pier #2	16+91.02	12.50	530.51	530.51
H	17+01.02	12.50	530.51	530.52
I	17+11.02	12.50	530.51	530.53
J	17+21.02	12.50	530.51	530.52
CL Brg. E. Abut.	17+29.51	12.50	530.51	530.51
E. End of Deck	17+30.36	12.50	530.51	530.51



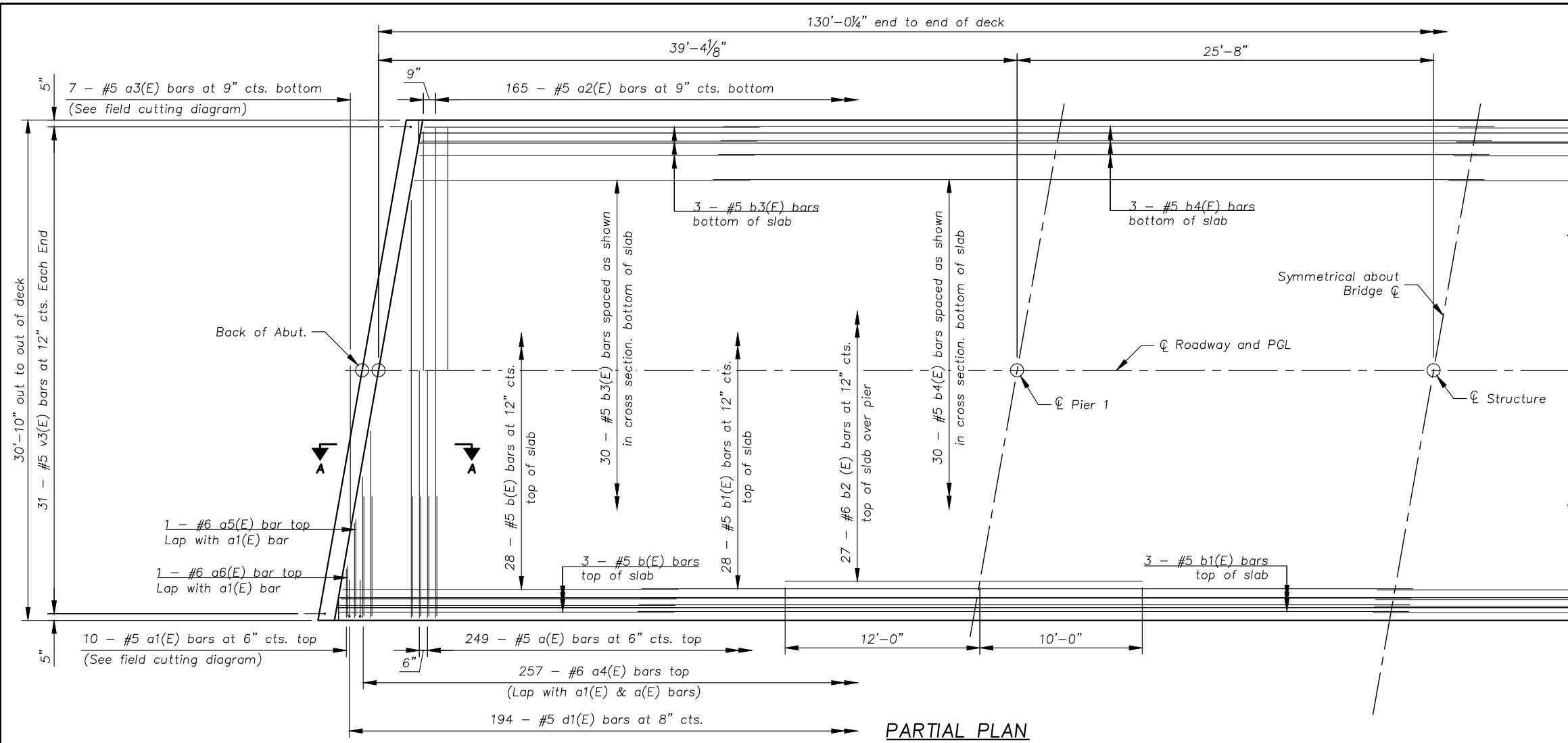
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	DRAWN — TAS	REVISED —
PLOT SCALE =	CHECKED — AAG	REVISED —
PLOT DATE = 9-30-2024	DATE — 9-30-2024	REVISED —

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS  
4TH ST. BRIDGE REPLACEMENT

SHEET NO. 4 OF 17 SHEETS

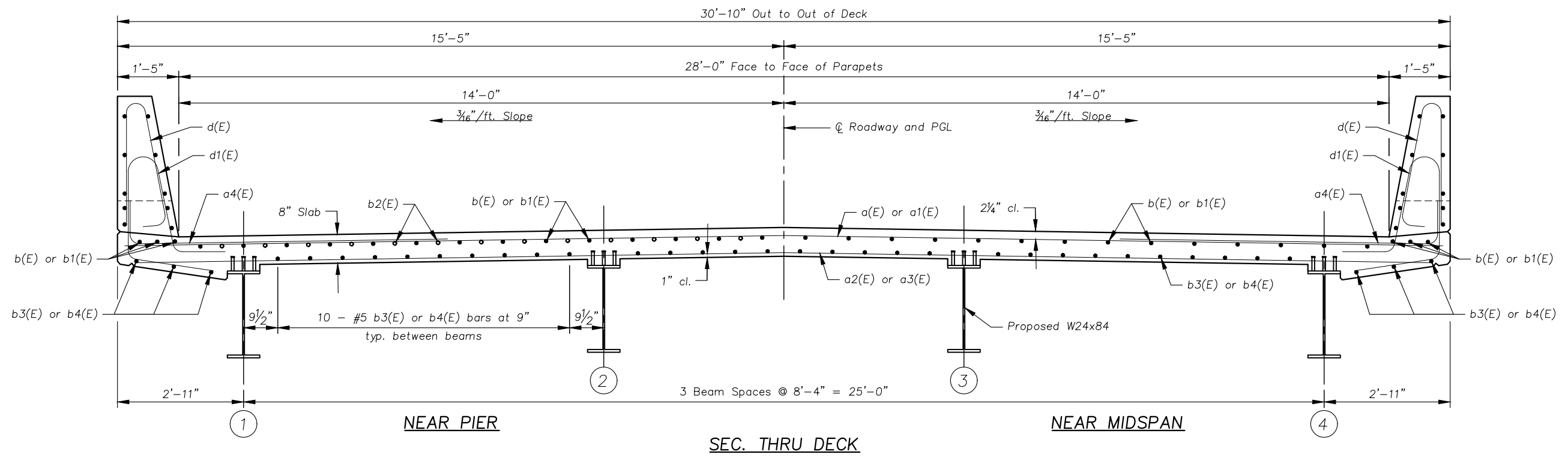
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-00002-00-BR	HANCOCK	34	14
4th STREET		CONTRACT NO. 93824	
ILLINOIS			



**NOTES:**  
 See Structural sheet 6 of 17 for superstructure details and Bill of Material.  
 See Structural sheet 7 of 17 for Section A-A.

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

**PARTIAL PLAN**



**SEC. THRU DECK**

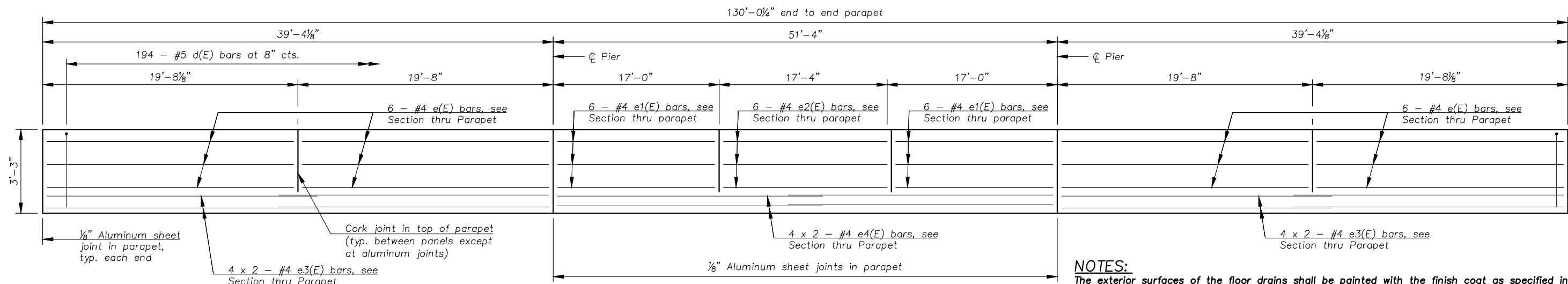


USER NAME = TAS	DESIGNED - YL	REVISED -
PLOT SCALE =	DRAWN - TAS	REVISED -
PLOT DATE = 9-30-2024	CHECKED - AAG	REVISED -
	DATE - 9-30-2024	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE  
 4TH ST. BRIDGE REPLACEMENT  
 PONTIAC, ILLINOIS  
 SHEET NO. 5 OF 17 SHEETS

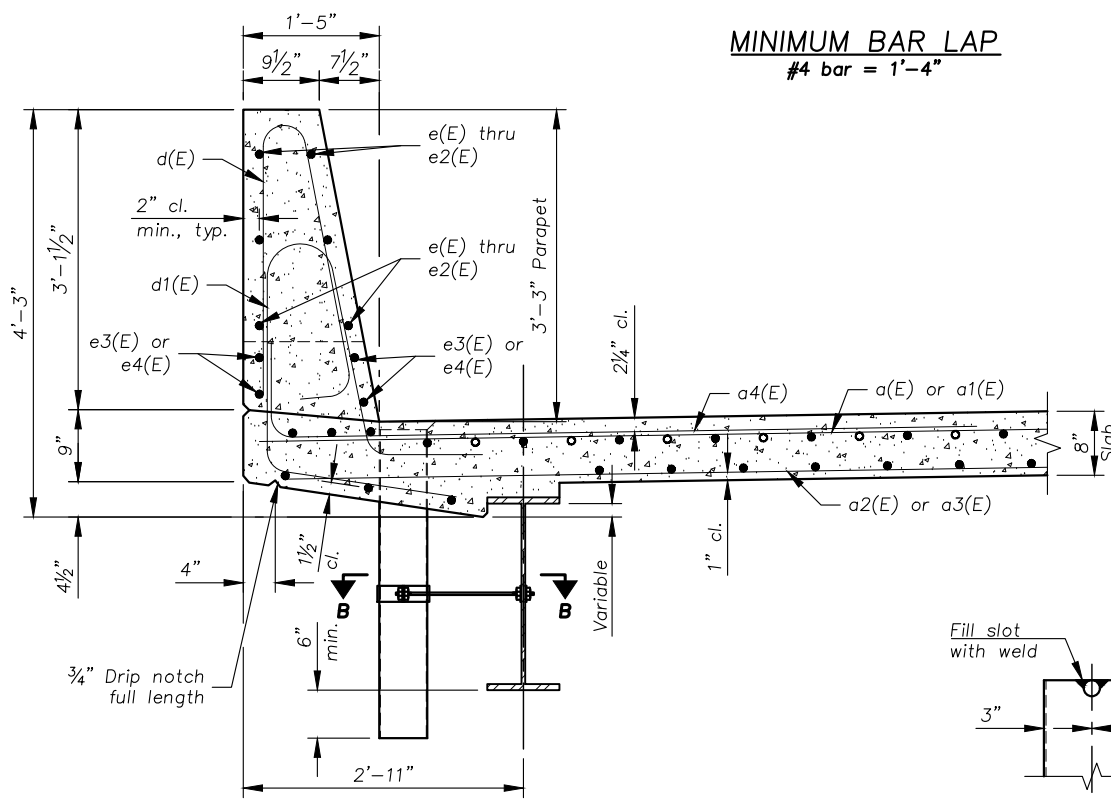
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-00002-00-BR	HANCOCK	34	15
4th STREET		CONTRACT NO. 93824	
ILLINOIS			



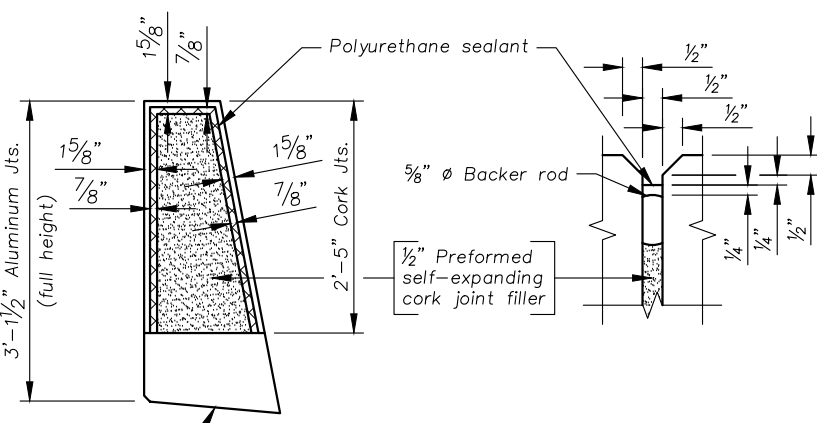
INSIDE ELEVATION OF PARAPET

**NOTES:**  
 The exterior surfaces of the floor drains shall be painted with the finish coat as specified in Section 506 of the Standard Specifications. The exterior surfaces of the drains shall be cleaned according to Society of Protective Coating's Spec. SSPC-SP1 prior to painting. Fiberglass pipe shall conform to ASTM D 2996, with short time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. Galvanize clamping device according to AASHTO M232. Cost of clamping device and galvanizing included with Floor Drains.

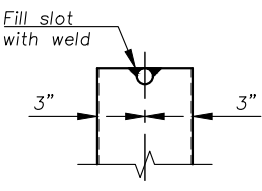
**MINIMUM BAR LAP**  
 #4 bar = 1'-4"



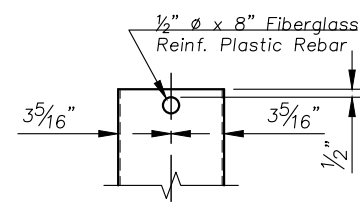
SECTION THRU PARAPET



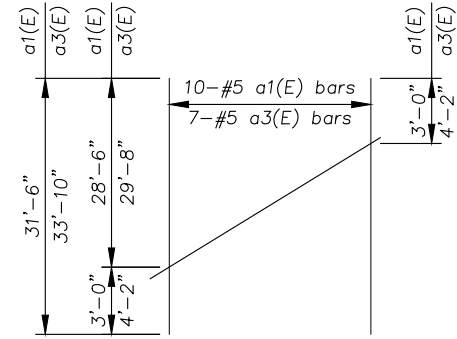
PARAPET JOINT DETAILS



ALUMINUM TUBE

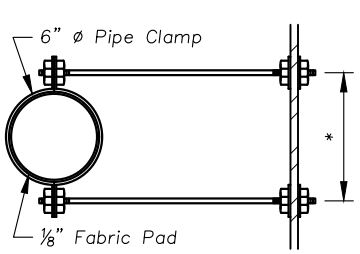


FIBERGLASS PIPE

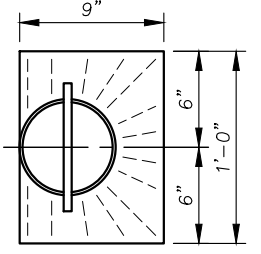


FIELD CUTTING DIAGRAM

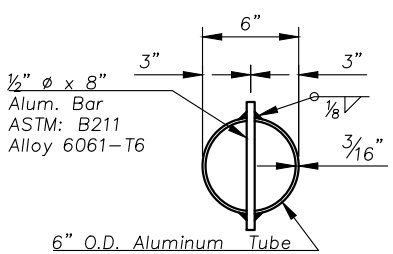
Order a1(E) and a3(E) full length. Cut as shown and use remainder of bars in opposite end of deck.



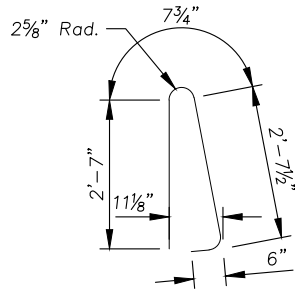
SECTION B-B  
 \*Dimension as required by Pipe Clamp



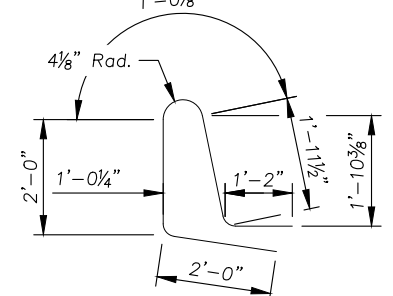
TOP PLAN



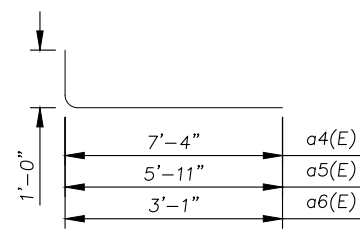
TOP PLAN (Showing Aluminum Tube)



BAR d(E)



BAR d1(E)



BAR a4(E), a5(E) & a6(E)

**SUPERSTRUCTURE BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	249	#5	30'-6"	
a1(E)	10	#5	31'-6"	
a2(E)	165	#5	29'-11"	
a3(E)	7	#5	33'-10"	
a4(E)	514	#6	8'-3"	
a5(E)	2	#6	6'-10"	
a6(E)	2	#6	4'-0"	
b(E)	68	#5	20'-8"	
b1(E)	68	#5	47'-6"	
b2(E)	54	#6	22'-0"	
b3(E)	72	#5	20'-8"	
b4(E)	72	#5	47'-6"	
d(E)	388	#5	6'-4"	
d1(E)	388	#5	8'-0"	
e(E)	48	#4	19'-4"	
e1(E)	24	#4	16'-8"	
e2(E)	12	#4	17'-0"	
e3(E)	32	#4	20'-3"	
e4(E)	16	#4	26'-2"	
m(E)	6	#6	30'-6"	
m1(E)	12	#6	8'-0"	
m2(E)	8	#6	2'-7"	
s3(E)	60	#5	8'-2"	
s4(E)	60	#5	8'-5"	
v3(E)	62	#5	3'-6"	
Reinforcement Bars, Epoxy Coated			Pound	41036
Concrete Superstructure			Cu. Yds.	160.3

Bars indicated thus 1 x 2 - #5 etc. indicates 1 line of bars with 2 lengths per line.

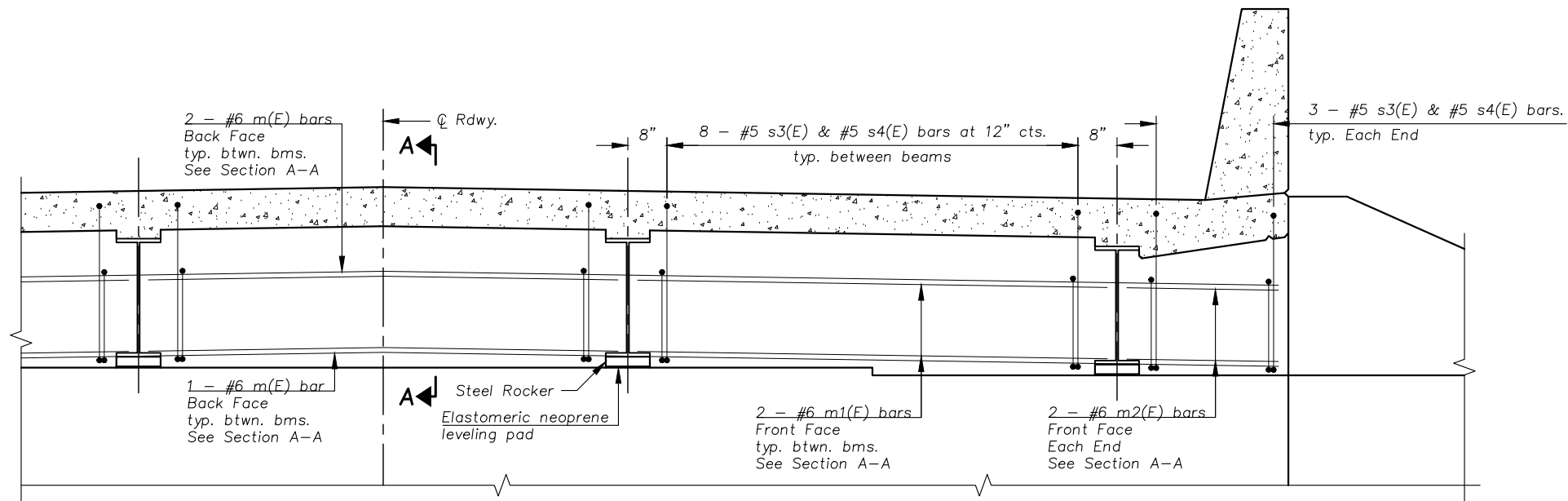


USER NAME = TAS	DESIGNED - YL	REVISED -
PLOT SCALE =	DRAWN - TAS	REVISED -
PLOT DATE = 9-30-2024	CHECKED - AAG	REVISED -
	DATE - 9-30-2024	REVISED -

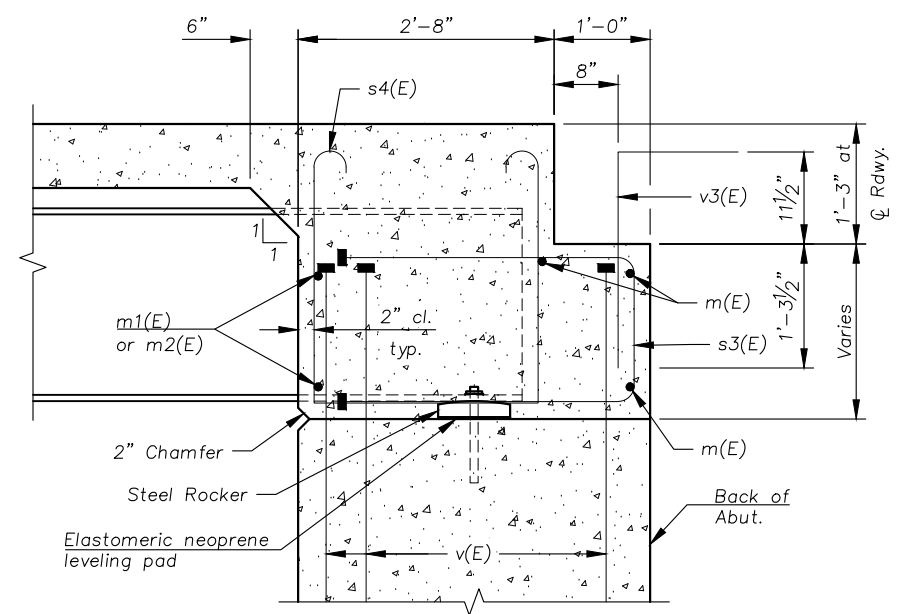
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS  
 4TH ST. BRIDGE REPLACEMENT  
 SHEET NO. 6 OF 17 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-00002-00-BR	HANCOCK	34	16
4th STREET		CONTRACT NO. 93824	
ILLINOIS			



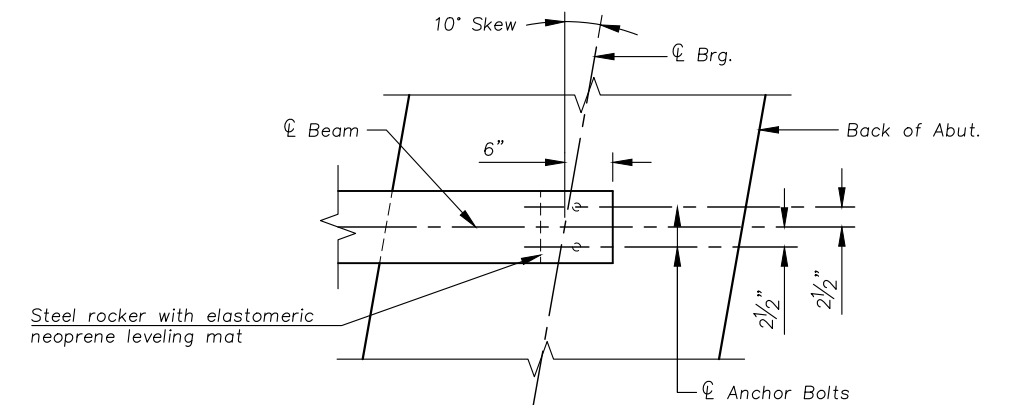
DIAPHRAM AT ABUTMENT



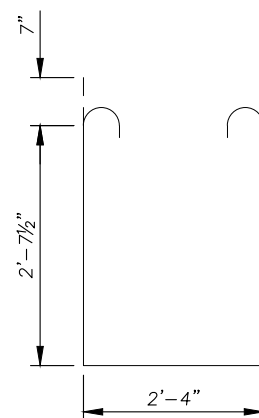
SECTION A-A  
(at Rt. L's)

**NOTES:**

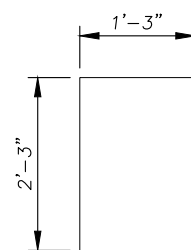
Reinforcement bars in diaphragm are billed with Superstructure on sheet 6 of 17.  
 Concrete in diaphragm is included with Concrete Superstructure on sheet 6 of 17.  
 The s3(E) and s4(E) bars shall be placed parallel to the beams.  
 Spacing for these bars shall be at right angles to the beams.



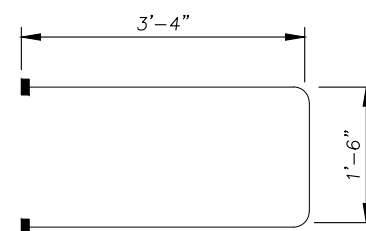
PLAN AT ABUTMENT  
(Showing bottom flange of beam)



BAR s4(E)



BAR v(E)



BAR s3(E)  
(Headed)

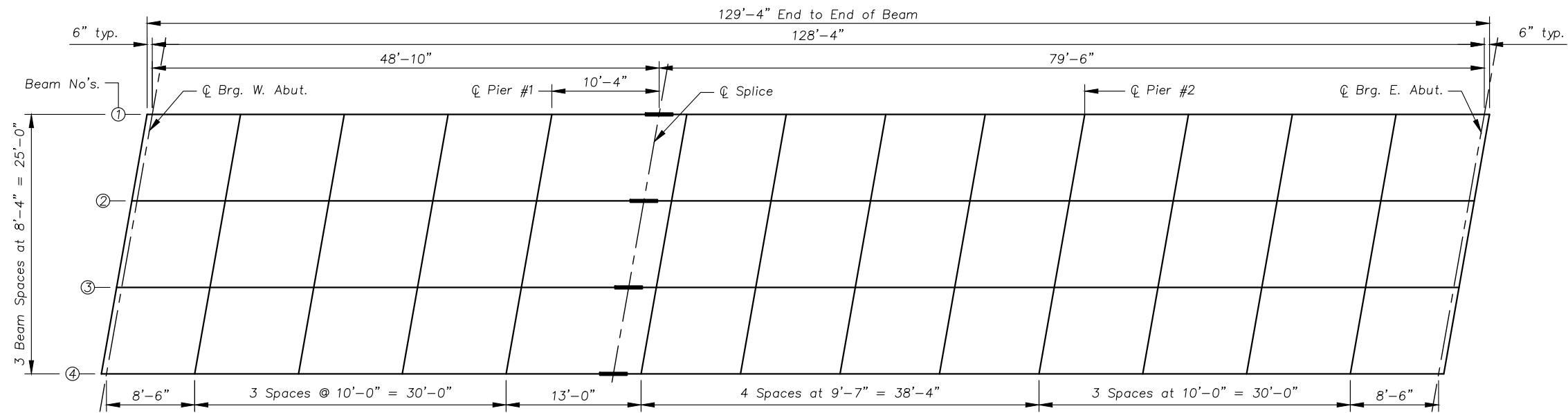


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PLOT DATE = 9-30-2024	CHECKED — AAG	REVISED —
	DATE — 9-30-2024	REVISED —

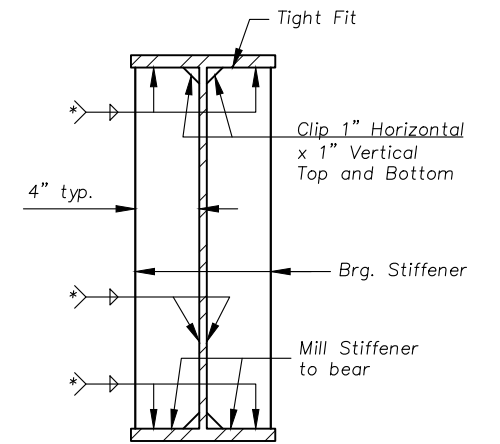
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS  
4TH ST. BRIDGE REPLACEMENT  
PONTIAC, ILLINOIS  
SHEET NO. 7 OF 17 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-00002-00-BR	HANCOCK	34	17
4th STREET		CONTRACT NO. 93824	
ILLINOIS			

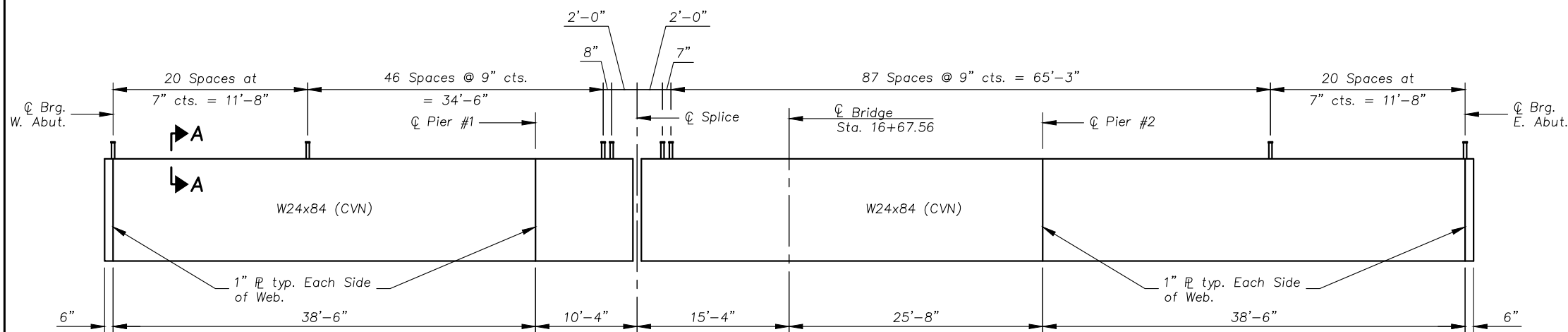


**FRAMING PLAN**

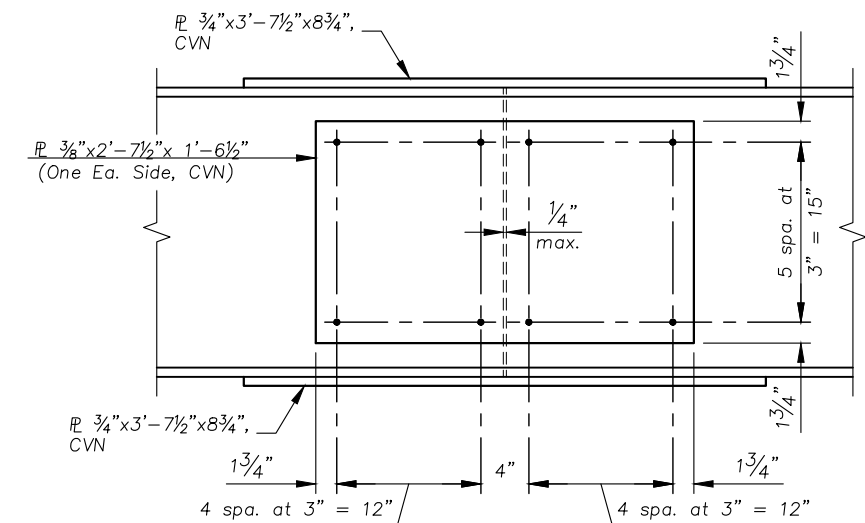
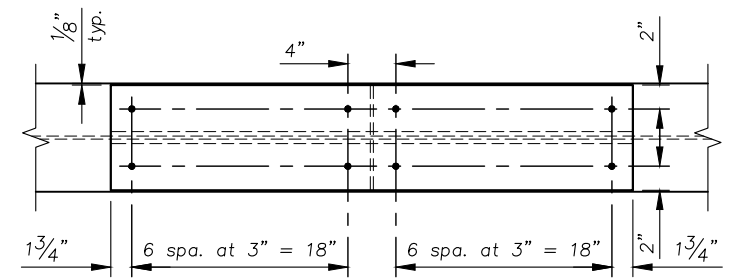


**SECTION AT PIER & ABUTMENT**

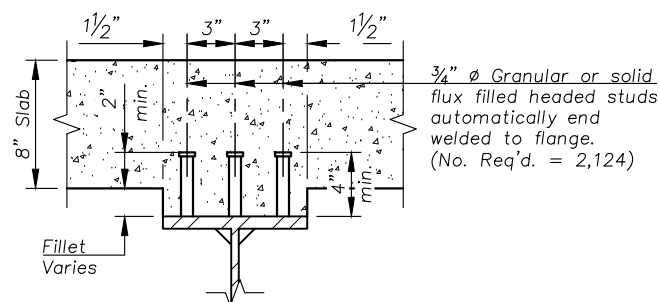
\*Terminate 1/4" (±1/8") from the end of R intersects



**GIRDER ELEVATION**



**FIELD SPLICE DETAIL**



**SECTION A-A**

**TOP OF BEAM ELEVATIONS (FOR FABRICATION ONLY)**

Beam Number	West Abutment	Pier #1	Splice #1	Pier #2	East Abutment
1	529.70	529.70	529.70	529.70	529.70
2	529.82	529.82	529.82	529.82	529.82
3	529.82	529.82	529.82	529.82	529.82
4	529.70	529.70	529.70	529.70	529.70



USER NAME = TAS  
 DESIGNED — YL  
 DRAWN — TAS  
 PLOT SCALE =  
 CHECKED — AAG  
 PLOT DATE = 9-30-2024  
 DATE — 9-30-2024

REVISED —  
 REVISED —  
 REVISED —  
 REVISED —

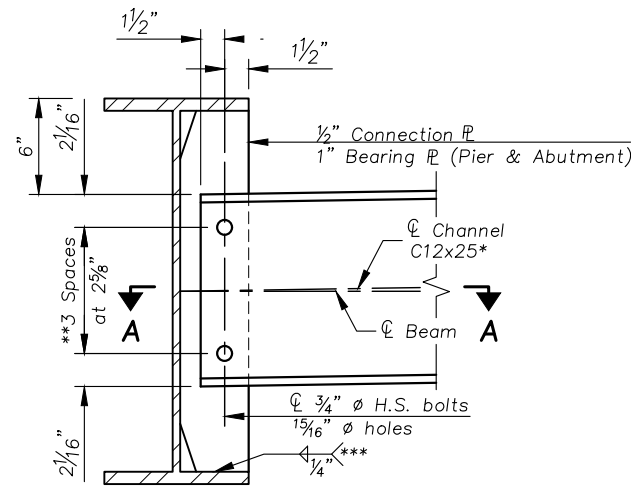
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS  
 4TH ST. BRIDGE REPLACEMENT

SHEET NO. 8 OF 17 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-00002-00-BR	HANCOCK	34	18
4th STREET	CONTRACT NO. 93824		
ILLINOIS			

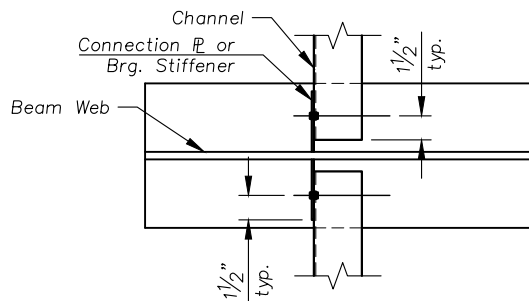




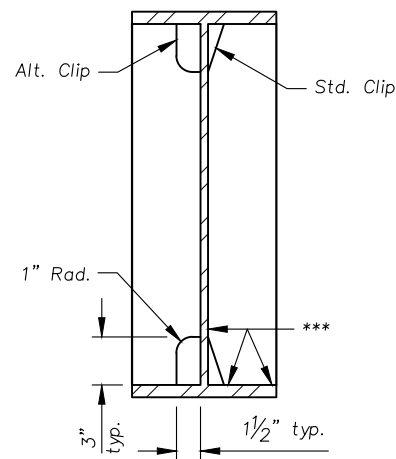
WIDE FLANGE BEAMS

INTERIOR DIAPHRAGM

**NOTE:**  
Two hardened washers required for each set of oversized holes.  
\*Alternate C 12x30 Channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.  
\*\* 3/4"  $\phi$  H.S. bolts, 1 5/16"  $\phi$  holes.



SECTION A-A



WELD LIMITS AND CLIP DETAILS  
\*\*\*Stop Welds 1/4" ( $\pm 1/8$ ") from edges as shown

INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1 Or 0.6 Sp. 3	Pier	0.5 Sp. 2
Is	(in4)	2370	2370	2370
Ic(n)	(in4)	8021	---	8021
Ic(3n)	(in4)	6412	---	6412
Ic(cr)	(in4)	---	4078.6	---
Ss	(in3)	196.68	196.68	196.68
Sc(n)	(in3)	320.3	---	320.3
Sc(3n)	(in3)	293	---	293
Sc(cr)	(in3)	---	250.5	---
DC1	(k/')	0.917	0.917	0.917
MDC1	('k)	80.9	178	103.64
DC2	(k/')	0.269	0.269	0.269
MDC2	('k)	25.5	56.03	32.63
DW	(k/')	0.38	0.38	0.38
MDW	('k)	30.90	68.00	39.60
LLDF		0.69	0.69	0.69
MLL+IM	('k)	273.6	239.4	279.4
Mu (Strength I)	('k)	658.15	813.49	718.69
Mu+1/3fl Sxc	('k)	658.15	813.49	718.69
$\phi$ fMn	('k)	1311.5	962.7	1311.5
fs DC1	(ksi)	4.94	10.86	6.32
fs DC2	(ksi)	1.04	3.42	1.33
fs DW	(ksi)	1.26	4.14	1.62
fs (LL+IM)	(ksi)	10.25	14.61	10.47
fs (Service II)	(ksi)	20.57	37.41	22.88
fs+fi/2 (Service II)	(ksi)	20.61	37.45	22.91
0.95R <sub>H</sub> F <sub>yf</sub>	(ksi)	47.50	47.50	47.50
fs (Total) (Strength I)	(ksi)	---	49.62	---
$\phi$ f Fn	(ksi)	*	**	*
Vf	(k)	93.48	182.10	93.48

INTERIOR GIRDER REACTION TABLE			
		Abut.	Pier
LLDF	k	0.88	0.84
OCF	k	---	---
RDC1	k	11.83	43.9
RDC2	k	3.73	13.28
RDW	k	4.85	17.61
RLL	k	46.38	68.53
RIM	k	15.31	22.61
RTOTAL	k	82.10	165.93

\*NA - Section is compact per AASHTO 6.10.6.2.2  
\*\*Section qualifies for AASHTO A6 per A6.1 ;  
A moment-based check per AASHTO A6.1.1-1 is sufficient

Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs (Total-Strength I, and Service II) due to non-composite dead loads (in4 and in3).  
Ic(n), Sc(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n" used for computing fs (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads. (in4 and in3).  
Ic(3n), Sc(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs (Total Strength and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in4 and in3).  
Ic(cr), Sc(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) live loads (in4 and in3).  
DC1: Un-factored non-composite dead load (kips/ft.).  
MDC1: Un-factored moment due to non-composite dead load. (kip-ft.).  
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).  
MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).  
DW: Un-factored long-term composite (superimposed future wearing surface) dead load (kips/ft.).  
MDW: Un-factored moment due to long-term composite (superimposed future wearing surface) dead load (kip-ft.).  
LLDF: Interior girder live load distribution factor (Lanes/Beam)  
ML+IM: Un-factored live load moment plus dynamic load allowance (Impact) (kip-ft.).  
Mu (Strength I): Factored design moment (kip-ft.).  
1.25 (MDC1+MDC2)+1.5MDW+1.75ML+IM  
 $\phi$ Mn: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).  
fs DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).  
MDC1/Snc  
fs DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).  
MDC2/Sa(3n) or MDC2/Sa(cr) as applicable.  
fs DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).  
MDW-Sa(3n) or MDW/Sa(cr) as applicable.  
fs (L+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).  
ML+IM/Sa(n) or MDW/Sa(cr) as applicable.  
fs (Service II): Sum of stresses as computed below (ksi).  
fsDC1+fsDC2+fsDW+1.3fs(L+IM).  
0.95R<sub>H</sub>F<sub>yf</sub>: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).  
fs (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).  
1.25(fsDC1+fsDC2)+1.5fsDW+1.75fs(L+IM)  
 $\phi$ fFn: Non-compact composite positive or negative stress capacity for strength I loading according to Article 6.10.7 or 6.10.8 (ksi)  
Vf: Maximum factored shear range in span computed according to Article 6.10.10.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stud Shear Connectors	Each	2124

NOTES:

All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise shown. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

Load carrying components designated "CVN" shall conform to the Charpy-VNotch Impact Energy Requirement, Zone 2.



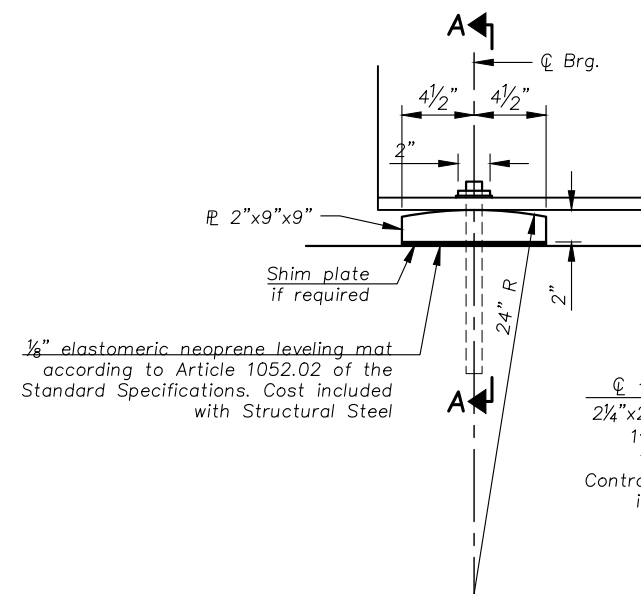
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	DATE - 9-30-2024	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STRUCTURAL STEEL DETAILS  
4TH ST. BRIDGE REPLACEMENT

PONTIAC, ILLINOIS  
SHEET NO. 8 OF 17 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-00002-00-BR	HANCOCK	34	19
4th STREET		CONTRACT NO. 93824	
ILLINOIS			



ELEVATION AT ABUTMENT

1/8" elastomeric neoprene leveling mat according to Article 1052.02 of the Standard Specifications. Cost included with Structural Steel

Shim plate if required

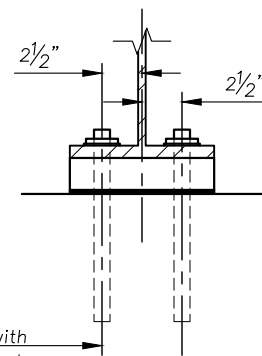
2" x 9" x 9"

4 1/2" 4 1/2"

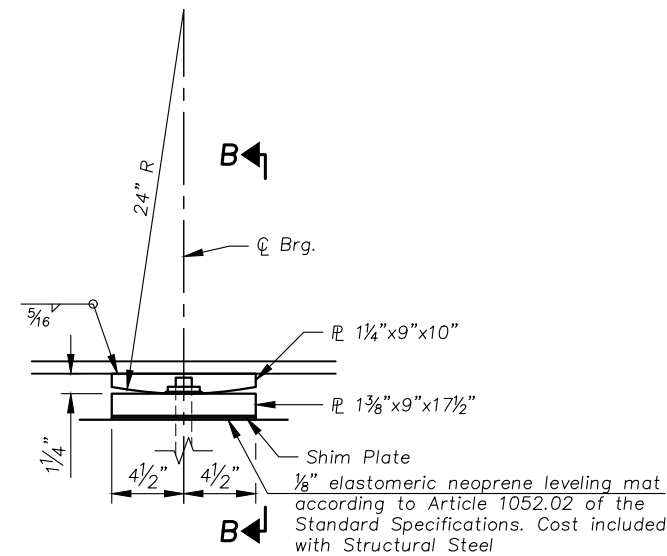
2" 2"

24" R

1"  $\phi$  x 12" anchor bolts with 2 1/4" x 2 1/4" x 5/16"  $\phi$  washer under nut. 1 3/8" x 2" slotted hole in flange. 1 1/2"  $\phi$  holes in bearing plate. Contractor has the option of cast in place or drilled installation



SECTION A-A



ELEVATION AT PIER

1/8" elastomeric neoprene leveling mat according to Article 1052.02 of the Standard Specifications. Cost included with Structural Steel

Shim Plate

1 1/4" x 9" x 10"

1 3/8" x 9" x 17 1/2"

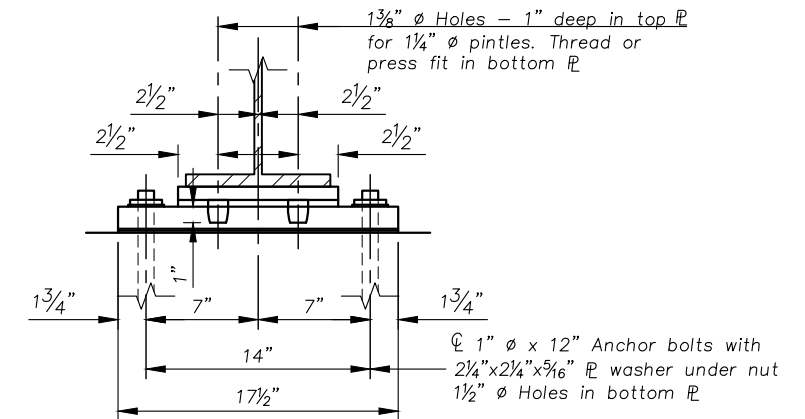
1"  $\phi$  x 12" anchor bolts with 2 1/4" x 2 1/4" x 5/16"  $\phi$  washer under nut. 1 1/2"  $\phi$  Holes in bottom  $\phi$

24" R

4 1/2" 4 1/2"

1 1/4"

5/16"



SECTION B-B

1 3/8"  $\phi$  Holes - 1" deep in top  $\phi$  for 1 1/4"  $\phi$  pintles. Thread or press fit in bottom  $\phi$

2 1/2" 2 1/2" 2 1/2" 2 1/2"

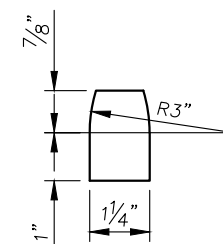
1 3/4" 7" 7" 1 3/4"

14" 17 1/2"

1"  $\phi$  x 12" Anchor bolts with 2 1/4" x 2 1/4" x 5/16"  $\phi$  washer under nut. 1 1/2"  $\phi$  Holes in bottom  $\phi$

FIXED BEARING AT ABUTMENTS

FIXED BEARING AT PIERS



PINTLE

NOTES:

Anchor bolts at fixed bearings may be built into the masonry.  
 Anchor bolts shall be ASTM F1554 or AASHTO M314, Grade 55.  
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.  
 Two 1/8" adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.



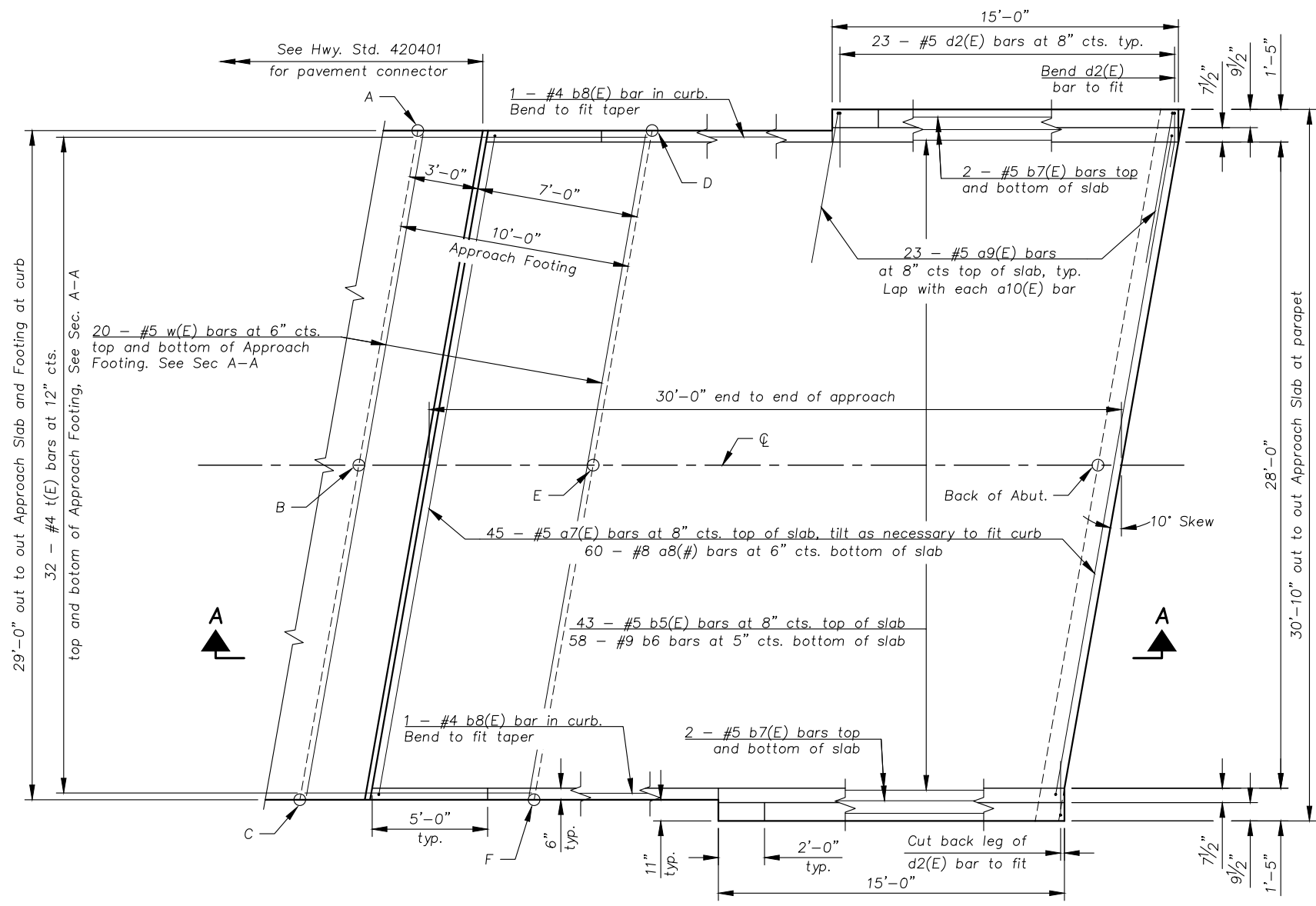
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PLOT DATE = 9-30-2024	DATE — 9-30-2024	REVISED —

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

BEARING DETAILS  
 4TH ST. BRIDGE REPLACEMENT

SHEET NO. 10 OF 17 SHEETS

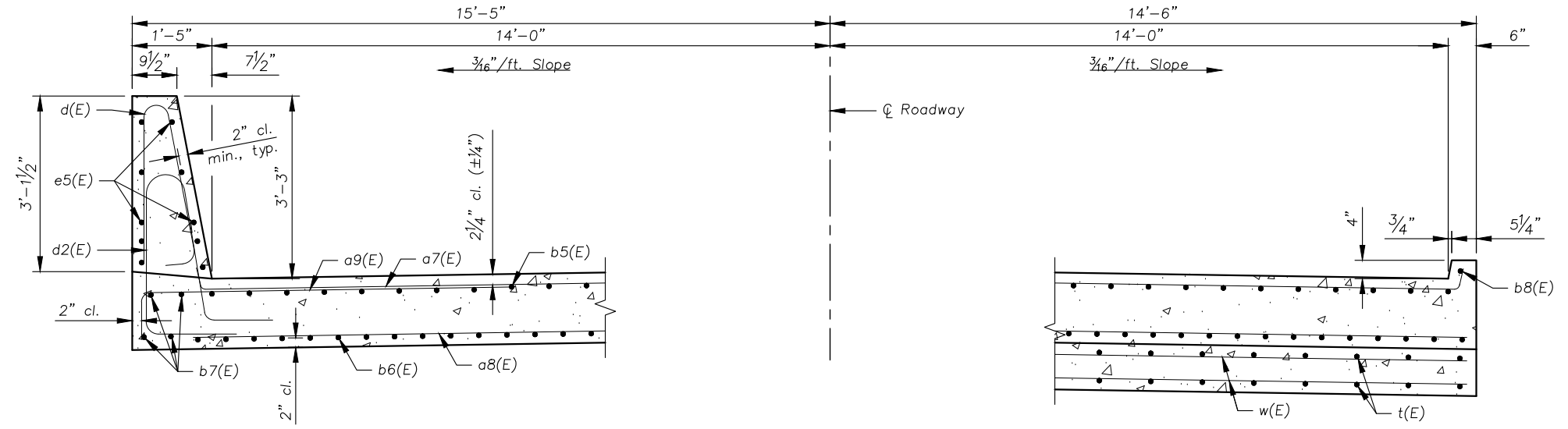
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-00002-00-BR	HANCOCK	34	20
4th STREET		CONTRACT NO. 93824	
ILLINOIS			



**TOP AND BOTTOM ELEVATIONS  
FOR APPROACH FOOTING**

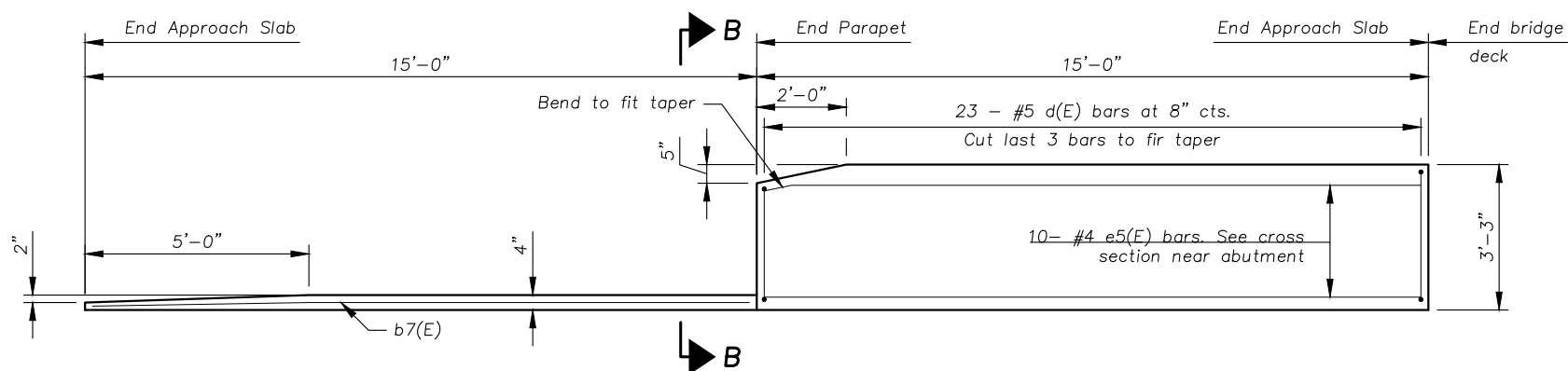
APPROACH			APPROACH		
Point/Location	Top	Bottom	Point/Location	Top	Bottom
A-	529.10	528.27	A-	529.10	528.27
B-	529.32	528.49	B-	529.32	528.48
C-	529.10	528.27	C-	529.10	528.27
D-	529.17	528.34	D-	528.17	528.34
E-	529.39	528.56	E-	529.39	528.59
F-	529.17	528.34	F-	528.17	528.34

**PLAN**  
(West Approach Slab shown; East Approach Slab similar by 180° rotation)



**CROSS SECTION**  
(Looking West)

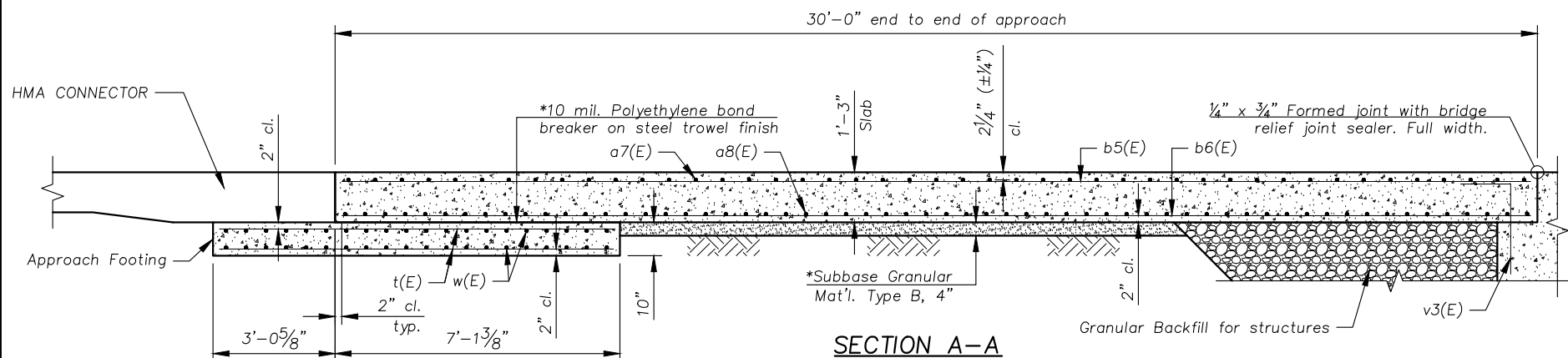
**NEAR ABUTMENT** **AT APPROACH FOOTING**



INSIDE ELEVATION OF PARAPET AND CURB

**NOTES:**

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the approach slab.  
 Parapet concrete shall be paid for as Concrete Superstructure.  
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).  
 Approach footing concrete shall be paid for as Concrete Structures.  
 The approach footing maximum applied service bearing pressure ( $Q_{max}$ ) = 2.0 ksf.  
 Cost of excavation for approach footing included with Concrete Structures.  
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 17.



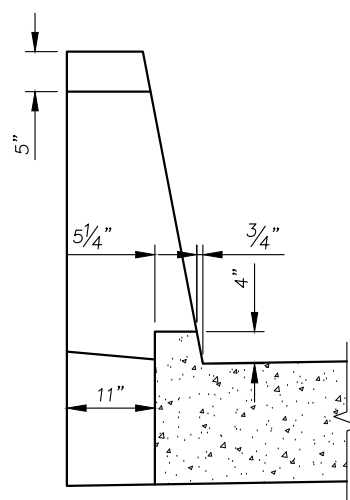
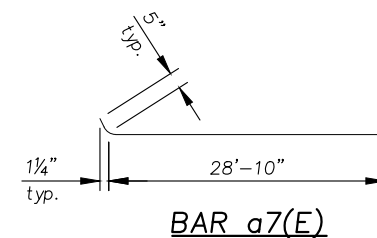
SECTION A-A

**TWO APPROACHES  
BILL OF MATERIAL**

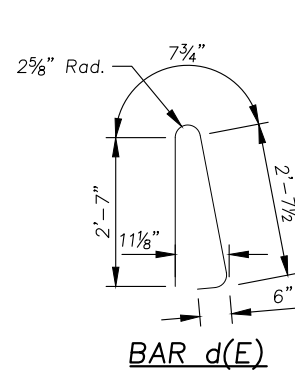
Bar	No.	Size	Length	Shape
a7(E)	90	#5	29'-6"	—
a8(E)	120	#8	29'-1"	—
a9(E)	92	#5	7'-4"	—
b5(E)	86	#5	29'-8"	—
b6(E)	116	#9	29'-8"	—
b7(E)	16	#5	14'-8"	—
b8(E)	4	#4	14'-8"	—
d(E)	92	#5	6'-5"	⌋
d2(E)	92	#5	8'-6"	⌋
e5(E)	40	#4	14'-8"	—
t(E)	128	#4	9'-10"	—
w(E)	80	#5	29'-1"	—
Concrete Structures			Cu. Yd.	18.5
Concrete Superstructure (Approach Slab)			Cu. Yd.	91.4
Reinforcement Bars, Epoxy Coated			Pound	32,527

\* Cost included with Concrete Superstructure (Approach Slab).

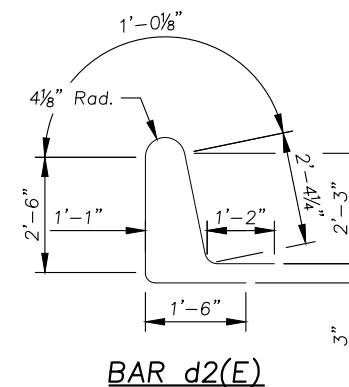
\*\* Per manufacturer recommendations



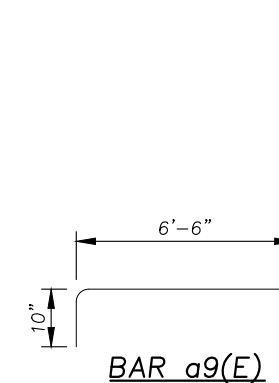
VIEW B-B



BAR d(E)



BAR d2(E)



BAR a9(E)



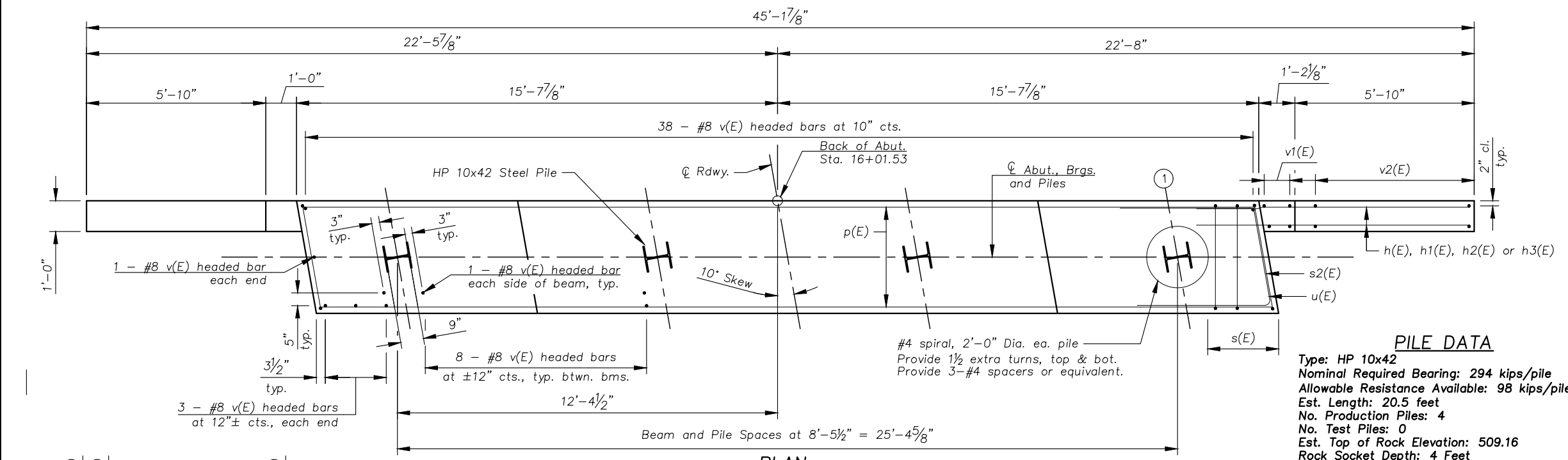
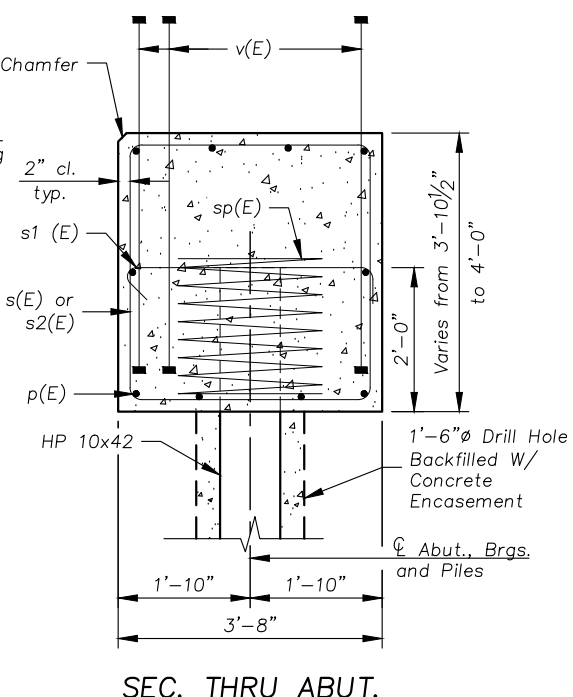
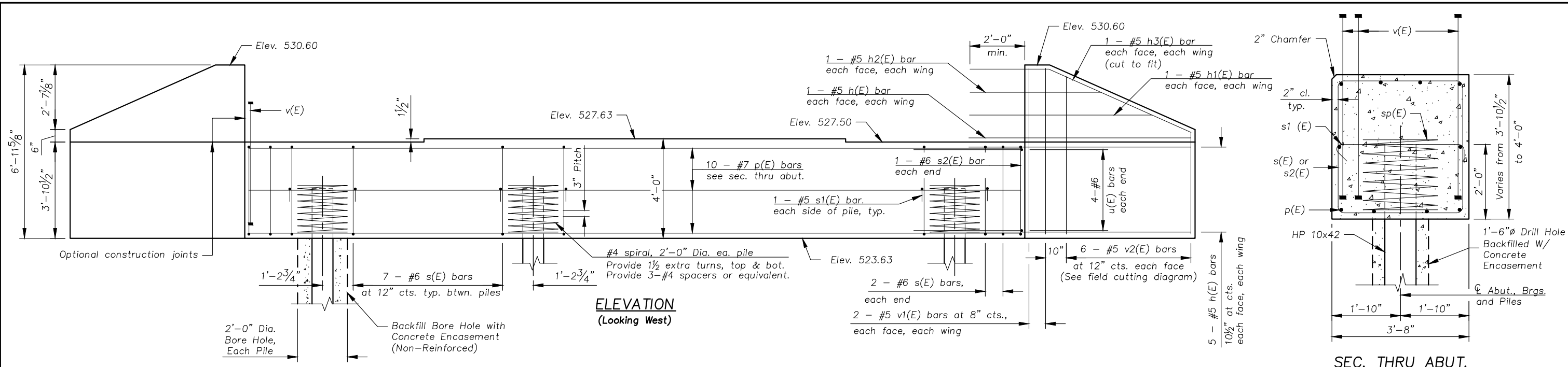
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PLOT DATE = 9-30-2024	CHECKED — AAG	REVISED —
	DATE — 9-30-2024	REVISED —

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS  
4TH ST. BRIDGE REPLACEMENT

SHEET NO. 12 OF 17 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-00002-00-BR	HANCOCK	34	22
4th STREET		CONTRACT NO. 93824	
ILLINOIS			

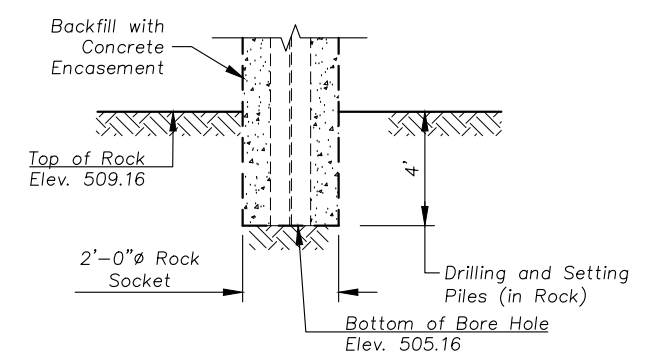
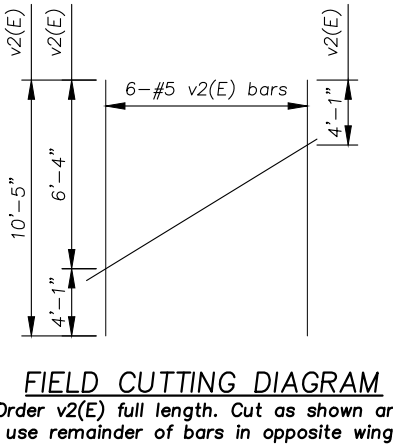


**BILL OF MATERIAL**

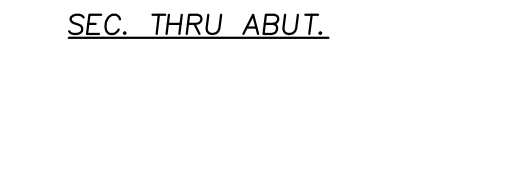
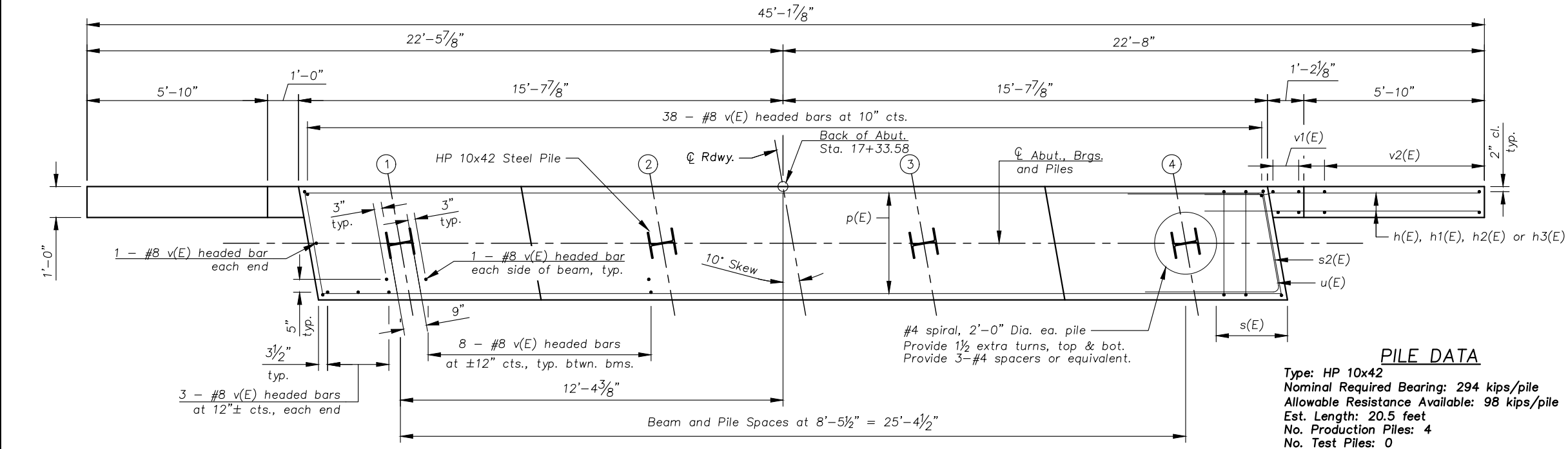
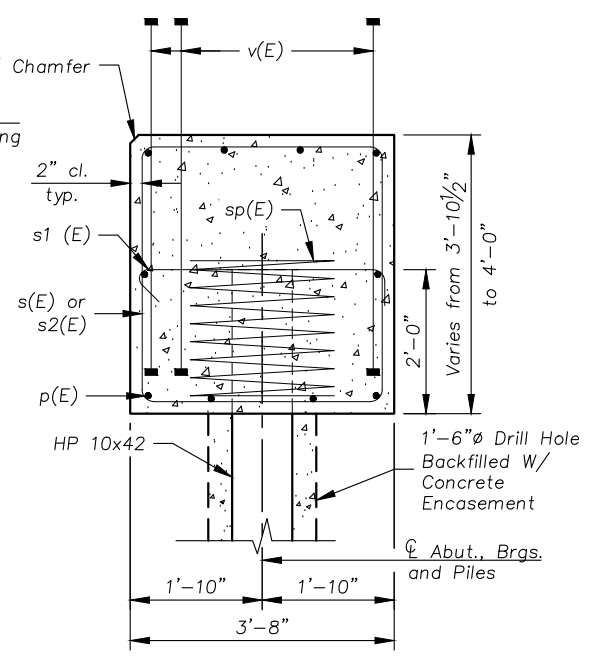
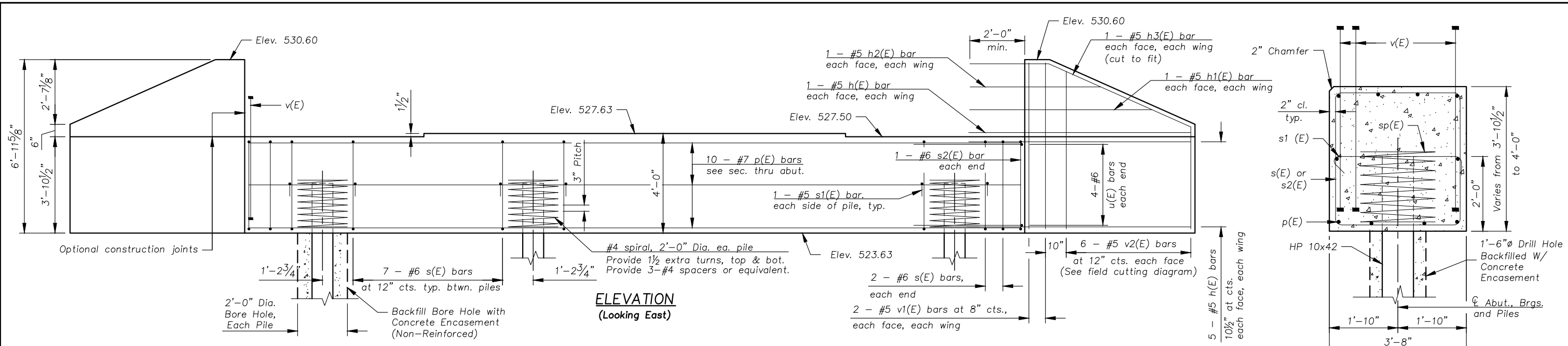
Bar	No.	Size	Length	Shape
h(E)	24	#5	8'-11"	—
h1(E)	4	#5	7'-4"	—
h2(E)	4	#5	5'-3"	—
h3(E)	4	#5	9'-5"	—
p(E)	10	#7	31'-0"	—
s(E)	25	#6	14'-4"	□
s1(E)	8	#5	4'-4"	—
s2(E)	2	#6	14'-6"	□
* sp(E)	4	#4	62'-10"	WWW
u(E)	8	#6	11'-9"	—
v(E)	78	#8	4'-11"	—
v1(E)	8	#5	6'-8"	—
v2(E)	6	#5	10'-5"	—
Structure Excavation			Cu. Yd.	7.8
Concrete Structures			Cu. Yd.	19.8
Concrete Encasement			Cu. Yd.	8.6
Reinforcement Bars, Epoxy Coated			Pound	3021
Furn. Steel Piles HP10x42			Foot	82
Drilling and Setting Piles (in Soil)			Cu. Ft.	193
Drilling and Setting Piles (in Rock)			Cu. Ft.	50.5

**PILE DATA**  
 Type: HP 10x42  
 Nominal Required Bearing: 294 kips/pile  
 Allowable Resistance Available: 98 kips/pile  
 Est. Length: 20.5 feet  
 No. Production Piles: 4  
 No. Test Piles: 0  
 Est. Top of Rock Elevation: 509.16  
 Rock Socket Depth: 4 Feet  
 Rock Socket Diameter: 24 Inches

- NOTES:**
- Refer to Sheet 14 of 17 for Bar Details and Cutting Diagram not detailed on this sheet.
  - Pour steps monolithically with cap.
  - Cost of Furnishing and Installing Bar Terminators shall be included in the cost of Reinforcement Bars, Epoxy Coated.



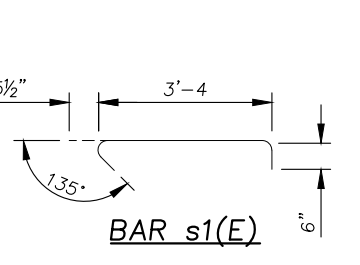
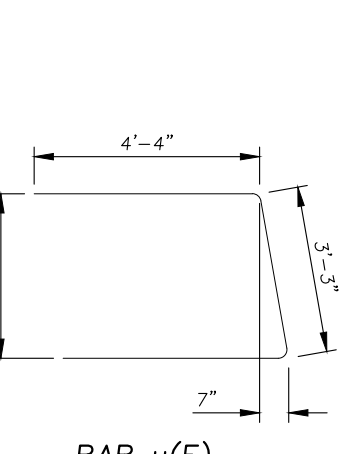
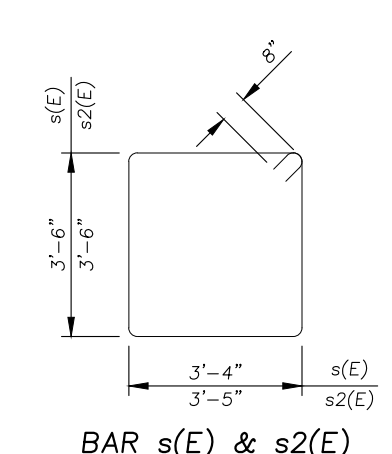
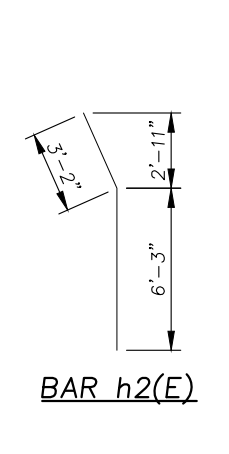
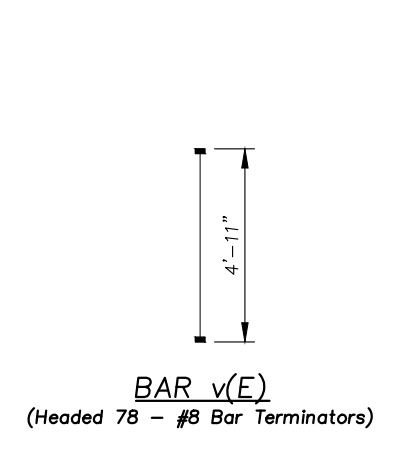
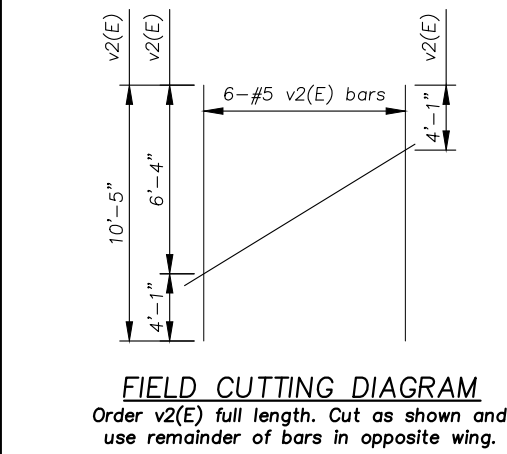




**BILL OF MATERIAL**

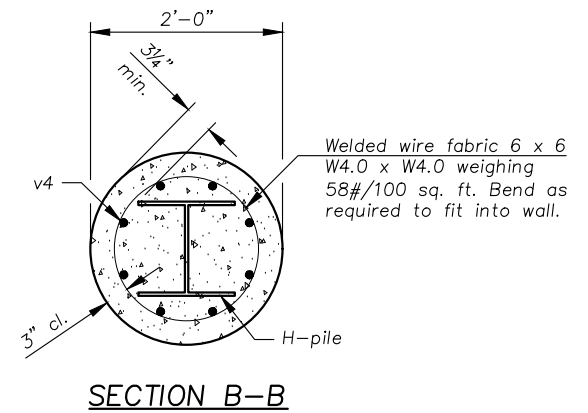
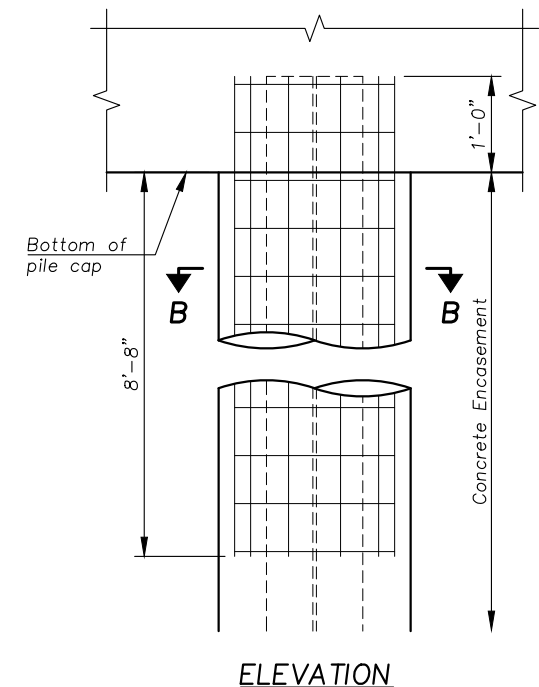
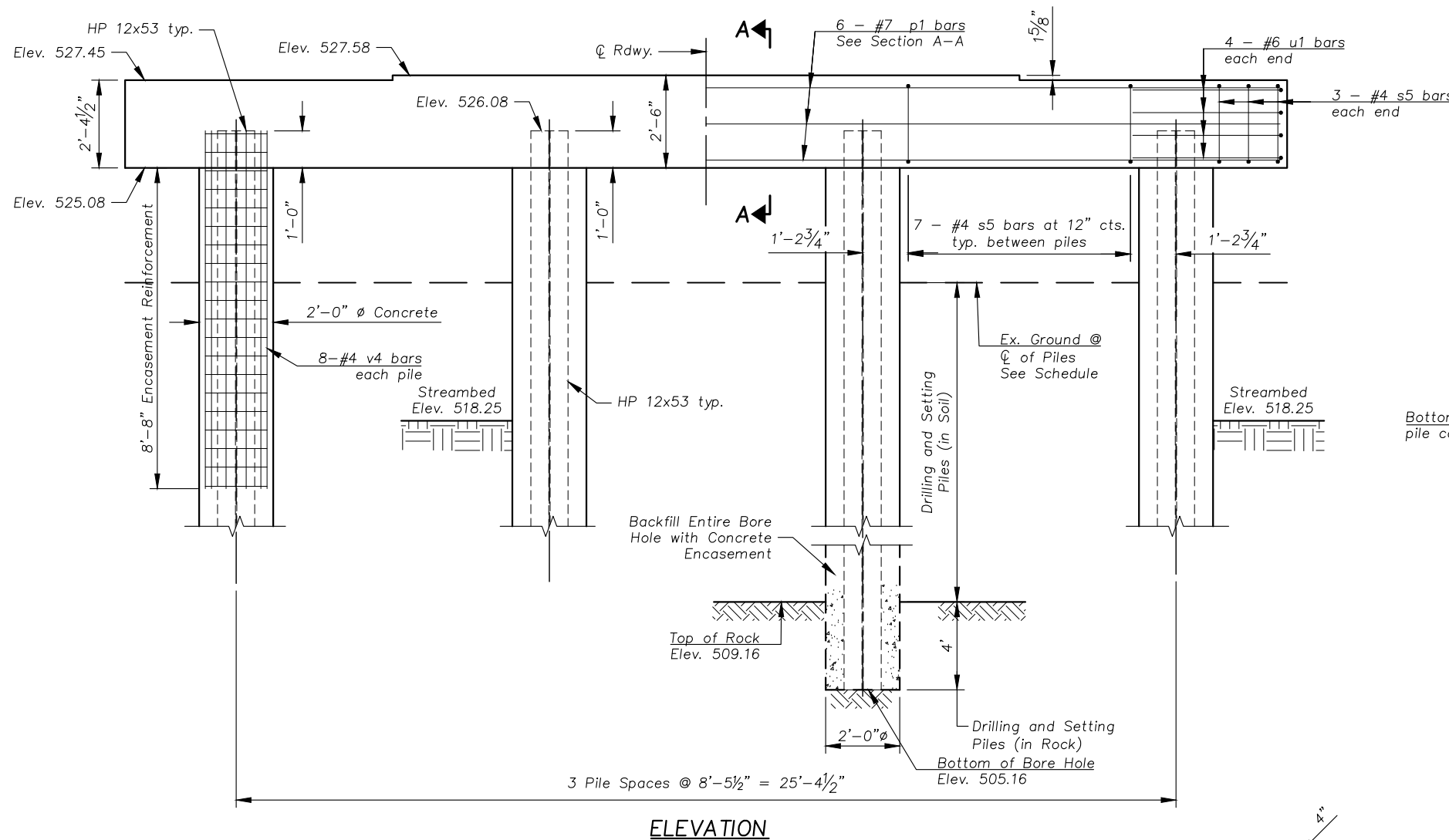
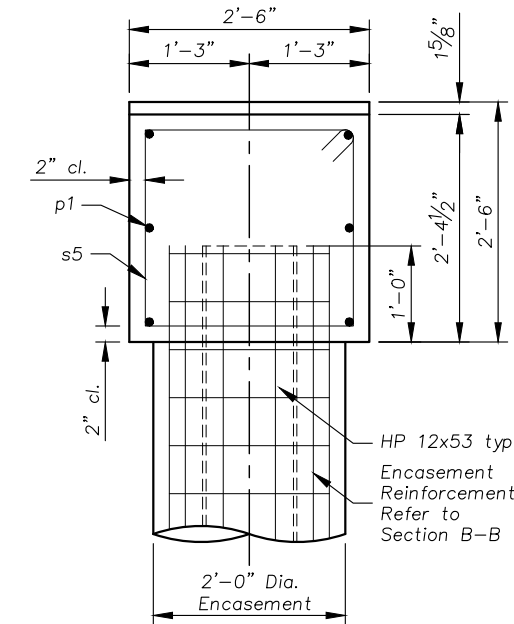
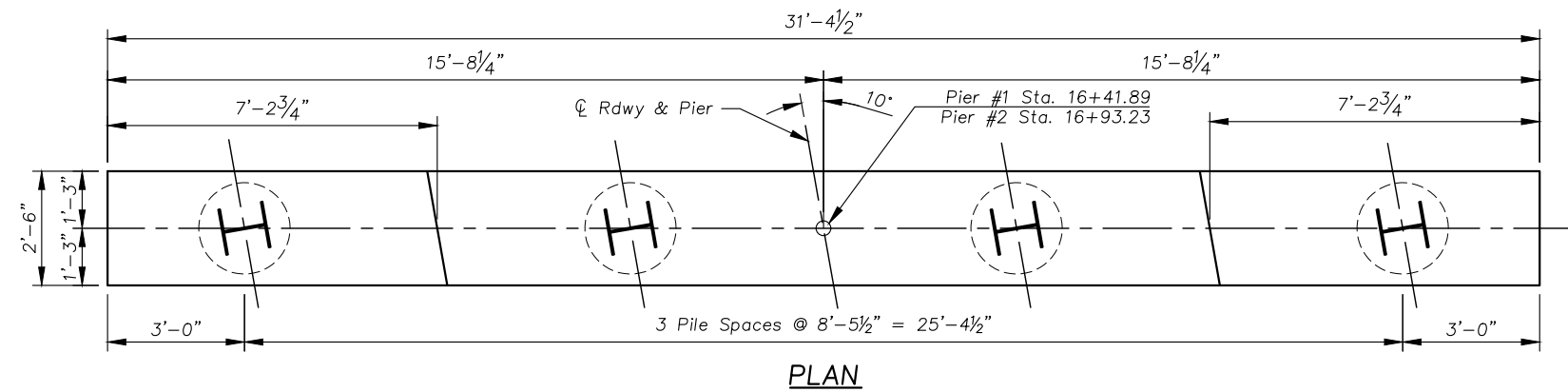
Bar	No.	Size	Length	Shape
h(E)	24	#5	8'-11"	—
h1(E)	4	#5	7'-4"	—
h2(E)	4	#5	5'-3"	—
h3(E)	4	#5	9'-5"	—
p(E)	10	#7	31'-0"	—
s(E)	25	#6	14'-4"	□
s1(E)	8	#5	4'-4"	—
s2(E)	2	#6	14'-6"	□
* sp(E)	4	#4	62'-10"	
u(E)	8	#6	11'-9"	┌
v(E)	78	#8	4'-11"	—
v1(E)	8	#5	6'-8"	—
v2(E)	6	#5	10'-5"	—

**PILE DATA**  
 Type: HP 10x42  
 Nominal Required Bearing: 294 kips/pile  
 Allowable Resistance Available: 98 kips/pile  
 Est. Length: 20.5 feet  
 No. Production Piles: 4  
 No. Test Piles: 0  
 Est. Top of Rock Elevation: 509.16  
 Rock Socket Depth: 4 Feet  
 Rock Socket Diameter: 24 Inches



- NOTES:**
- Pour steps monolithically with cap.
  - Cost of Furnishing and Installing Bar Terminators shall be included in the cost of Reinforcement Bars, Epoxy Coated.
  - See Pile Setting Detail, Sheet 13 of 17 for Rock Socket and Embedment.

\* Length is 10 turns, 2' dia. spiral.



**BILL OF MATERIAL - 2 PIERS**

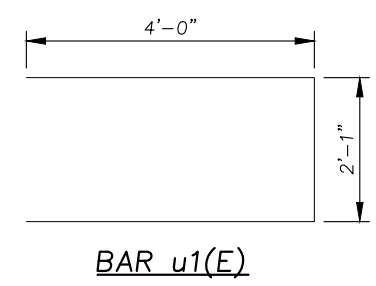
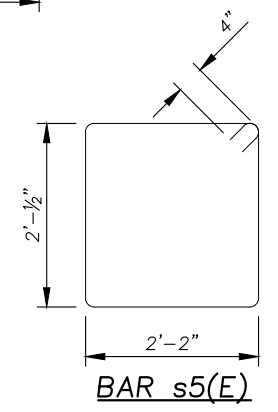
Bar	No.	Size	Length	Shape
p1(E)	12	#7	31'-0"	—
v4(E)	64	#4	9'-8"	—
u1(E)	16	#6	10'-1"	□
s5(E)	54	#4	9'-2"	□
Concrete Structures			Cu. Yd.	14.2
Reinforcement Bars, Epoxy Coated			Pound	1747
Furn. Steel Piles HP 12x53			Foot	168
Drilling and Setting Piles (in soil)			Cu. Ft.	342
Drilling and Setting Piles (in Rock)			Cu. Ft.	101
Concrete Encasement			Cu. Yd.	18.5

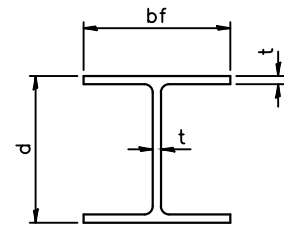
**EXISTING GROUND ELEVATION SCHEDULE**

PIER #	PILE LOCATION LEFT TO RIGHT	EX. GROUND ELEVATION	DRILLING LENGTH (IN SOIL)
PIER #1	A	522.6	13.4
	B	522.7	13.5
	C	522.7	13.5
	D	522.8	13.6
PIER #2	A	522.6	13.4
	B	522.7	13.5
	C	523.5	14.3
	D	524.7	15.5

**PILE DATA**

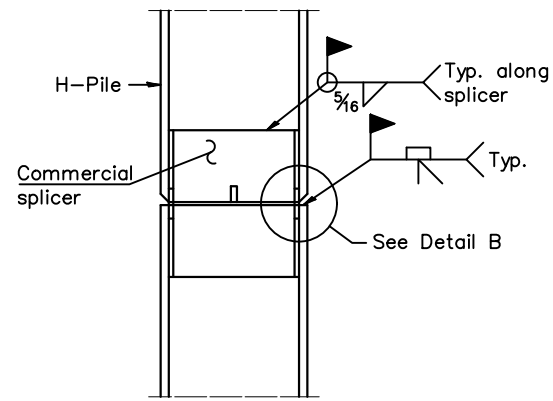
Type: HP 12x53  
 Nominal Required Bearing: 414 kips/pile  
 Allowable Resistance Available: 138 kips/pile  
 Est. Length: 21 Feet/Pile  
 No. Production Piles: 4  
 No. Test Piles: 0  
 Est. Top of Rock Elevation: 509.16  
 Rock Socket Depth: 4 Feet  
 Rock Socket Diameter: 24 Inches



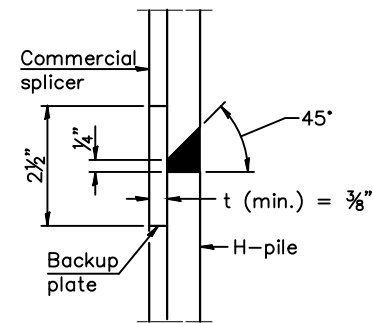


**STEEL PILE TABLE**

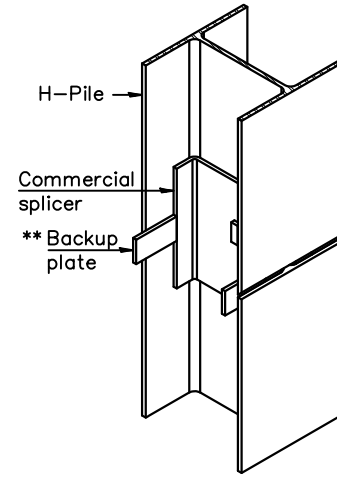
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 18x181	18	18	1	36"
x157	17 3/4"	17 7/8"	7/8"	36"
x135	17 1/2"	17 3/4"	3/4"	36"
HP 16x183	16 1/2"	16 1/2"	1 1/8"	36"
x162	16 1/4"	16 5/8"	1"	36"
x141	16	16	7/8"	36"
x121	15 3/4"	15 7/8"	3/4"	36"
HP 14x117	14 1/4"	14 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 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	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"



**ELEVATION**

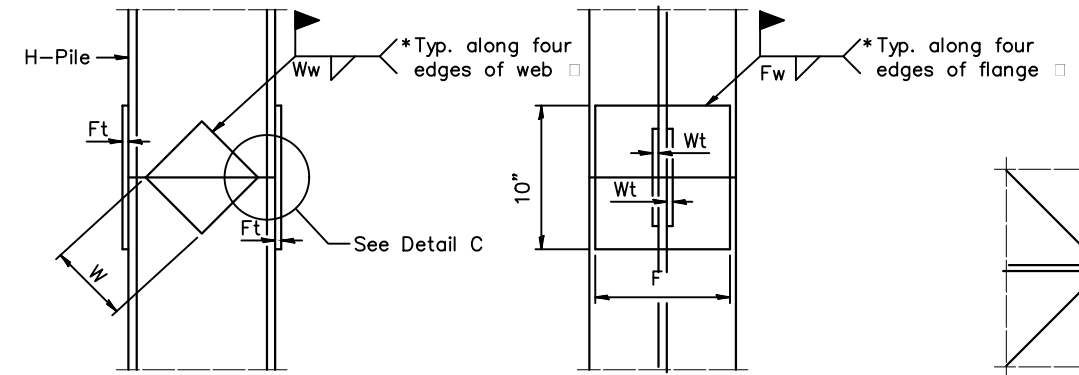


**DETAIL B**



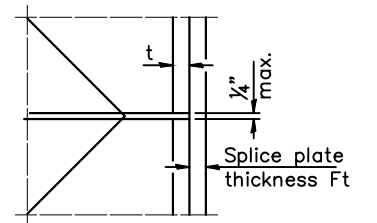
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE**



**ELEVATION**

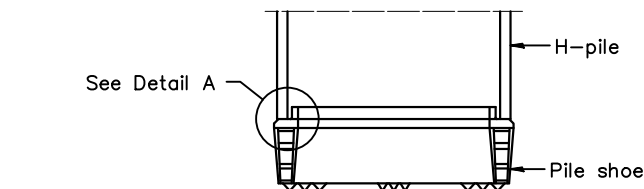
**END VIEW**



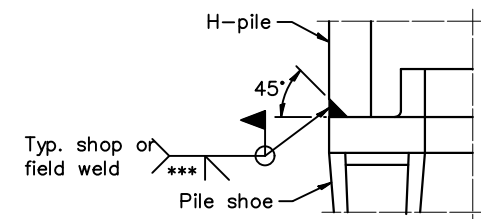
**DETAIL C**

Designation	F	Ft	Fw	W	Wt	Ww
HP 18x181	15 1/2"	1 1/2"	1"	9 1/2"	7/8"	3/4"
x157	15 1/4"	1 1/4"	1"	9 1/2"	7/8"	3/4"
x135	15 1/4"	1 1/4"	1"	9 1/2"	7/8"	3/4"
HP 16x183	13 3/4"	1 1/2"	1"	8 1/4"	7/8"	3/4"
x162	13 1/2"	1 1/2"	1"	8 1/4"	3/4"	5/8"
x141	13 1/2"	1 1/4"	7/8"	8 1/4"	3/4"	5/8"
x121	13 1/2"	1 1/4"	7/8"	8 1/4"	3/4"	5/8"
HP 14x117	12 1/2"	1"	3/4"	7 3/4"	5/8"	1/2"
x102	12 1/2"	1"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	7/8"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	3/4"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	1"	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"	3/4"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	3/4"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	7/8"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	6 3/4"	5/8"	7/16"	4"	1/2"	3/8"

**WELDED PLATE FIELD SPLICE**

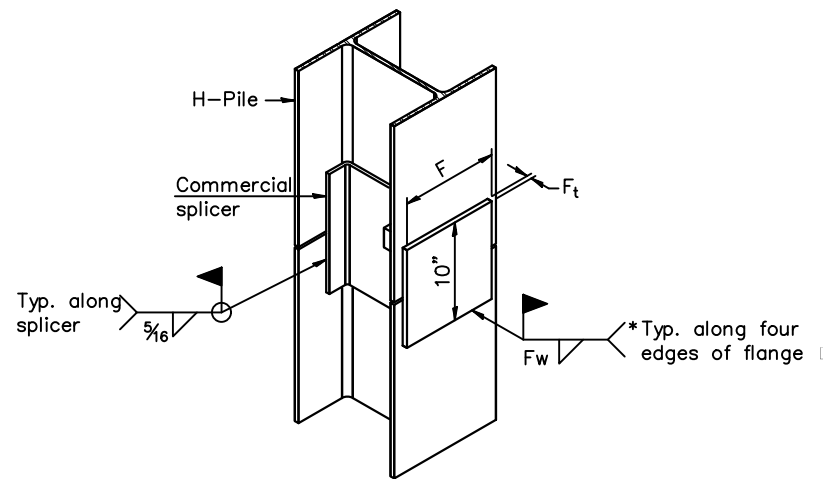


**ELEVATION**



**DETAIL A**

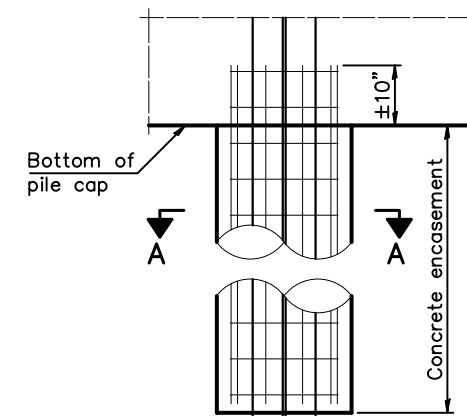
**SHOE ATTACHMENT**



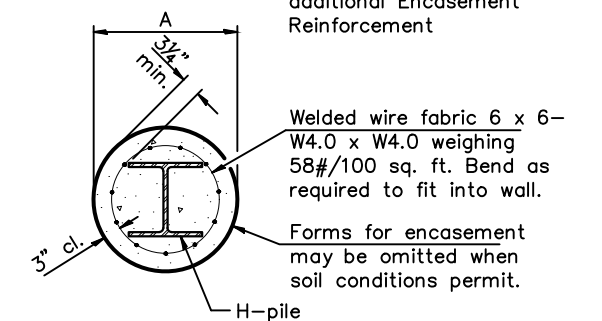
**ISOMETRIC VIEW**

**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.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).



**ELEVATION**



**SECTION A-A**

**INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)**

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

F-HP

10-27-2023



USER NAME = TAS	DESIGNED — YL	REVISED —
PLOT SCALE =	DRAWN — TAS	REVISED —
PLOT DATE = 9-30-2024	CHECKED — AAG	REVISED —
	DATE — 9-30-2024	REVISED —

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PILE DETAILS  
4TH ST. BRIDGE REPLACEMENT  
PONTIAC, ILLINOIS  
SHEET NO. 16 OF 17 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-0002-00-BR	HANCOCK	34	26
4th STREET		CONTRACT NO. 93824	
ILLINOIS			



### SOIL BORING LOG

Date 06/27/23

ROUTE 4th Street / MS 1020 DESCRIPTION 4th Street Bridge Over Spillman Creek LOGGED BY Fehl

SECTION 20-00002-00-BR LOCATION Pontoonuc, SEC., TWP., T5N, RNG. R7W, 4th PM.

COUNTY Hancock DRILLING METHOD Hollow-Stem Augers HAMMER TYPE Diedrich D-50 Automatic

STRUCT. NO. 034-6012  
 Station \_\_\_\_\_  
 SURFACE WATER Elev. \_\_\_\_\_ ft  
 Stream Bed Elev. \_\_\_\_\_ ft

BORING NO. B-01  
 Station 1+00.92  
 Offset 65.0 ft Left  
 Ground Surface Elev. 89.50 ft

DEPTH (ft)	DESCRIPTION	BL	LOG	UCS	M	U	MO
0	FINE-GRAINED SAND (ALLUVIUM): Light Brown and Brown With Fine Gravel Moist, Very Loose	1					
1	FINE TO MEDIUM-GRAINED SAND (ALLUVIUM): Brown Moist	2					
2	MEDIUM TO COARSE-GRAINED SAND (ALLUVIUM): Brown, Very Moist To Wet, Medium Dense	7					
8	SHALY LIMESTONE: Gray, Hard	10					
10	End of Boring						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
 BBS, form 137 (Rev. 8-99)



### SOIL BORING LOG

Date 06/27/23

ROUTE 4th Street / MS 1020 DESCRIPTION 4th Street Bridge Over Spillman Creek LOGGED BY Fehl

SECTION 20-00002-00-BR LOCATION Pontoonuc, SEC., TWP., T5N, RNG. R7W, 4th PM.

COUNTY Hancock DRILLING METHOD Hollow-Stem Augers HAMMER TYPE Diedrich D-50 Automatic

STRUCT. NO. 034-6012  
 Station \_\_\_\_\_  
 SURFACE WATER Elev. \_\_\_\_\_ ft  
 Stream Bed Elev. \_\_\_\_\_ ft

BORING NO. B-02  
 Station 1+22.09  
 Offset 65.0 ft Left  
 Ground Surface Elev. 94.00 ft

DEPTH (ft)	DESCRIPTION	BL	LOG	UCS	M	U	MO
0	FINE-GRAINED SAND (ALLUVIUM): Light Brown With Fine Gravel Moist, Loose	1					
1	SANDY SILTY CLAY WITH TREE ROOTS (ALLUVIUM): Olive-Brown and Brown, Moist, Soft	1					
2	FINE TO MEDIUM-GRAINED SAND (ALLUVIUM): Brown-Gray Moist	2					
3	MEDIUM-GRAINED SAND (ALLUVIUM): Brown Very Moist To Wet Loose	3					
4	SANDY FAT CLAY (RESIDUAL SHALE): Green-Gray Very Moist, Stiff	7					
7	SHALY LIMESTONE: Gray Hard	9					
9	End of Boring						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
 BBS, form 137 (Rev. 8-99)



### SOIL BORING LOG

Date 04/21/23

ROUTE 4th Street / MS 1020 DESCRIPTION 4th Street Bridge Over Spillman Creek LOGGED BY Fehl

SECTION 20-00002-00-BR LOCATION Pontoonuc, SEC., TWP., T5N, RNG. R7W, 4th PM.

COUNTY Hancock DRILLING METHOD Hollow-Stem Augers HAMMER TYPE Diedrich D-50 Automatic

STRUCT. NO. 034-6012  
 Station \_\_\_\_\_  
 SURFACE WATER Elev. \_\_\_\_\_ ft  
 Stream Bed Elev. \_\_\_\_\_ ft

BORING NO. B-03  
 Station 2+32.09  
 Offset 65.0 ft Left  
 Ground Surface Elev. 93.70 ft

DEPTH (ft)	DESCRIPTION	BL	LOG	UCS	M	U	MO
0	SANDY SILTY CLAY (ALLUVIUM): Olive-Brown and Brown Very Moist and Becoming Moist With Depth Very Soft	1					
1	FINE TO MEDIUM-GRAINED SAND (ALLUVIUM): Brown, Very Loose, Very Moist To Wet	1					
2	MEDIUM-GRAINED SAND (ALLUVIUM): Brown Very Moist To Wet Loose	2					
3	SANDY FAT CLAY (RESIDUAL SHALE): Green-Gray Very Moist, Stiff	4					
4	SHALY LIMESTONE: Gray Hard	6					
6	End of Boring						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
 BBS, form 137 (Rev. 8-99)



### ROCK CORE LOG

Date 04/21/23

ROUTE 4th Street / MS 1020 DESCRIPTION 4th Street Bridge Over Spillman Creek LOGGED BY Fehl

SECTION 20-00002-00-BR LOCATION Pontoonuc, SEC., TWP., T5N, RNG. R7W, 4th PM.

COUNTY Hancock CORING METHOD Rotary Coring

STRUCT. NO. 034-6012  
 Station \_\_\_\_\_  
 SURFACE WATER Elev. \_\_\_\_\_ ft  
 Stream Bed Elev. \_\_\_\_\_ ft

BORING NO. B-03  
 Station 2+32.09  
 Offset 65.0 ft Left  
 Ground Surface Elev. 93.70 ft

DEPTH (ft)	DESCRIPTION	RE	CO	VE	DE	RY	ST	RE	NO.
0	SHALY LIMESTONE: Dark Gray To Gray	1	69	46	2.1	602.0			
2	WEATHERED LIMESTONE: Light Gray	2	70	57	2.6	301.0			
25	End of Boring								

Color pictures of the cores \_\_\_\_\_ Yes \_\_\_\_\_  
 Cores will be stored for examination until 09/30/2023  
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
 BBS, form 138 (Rev. 8-99)



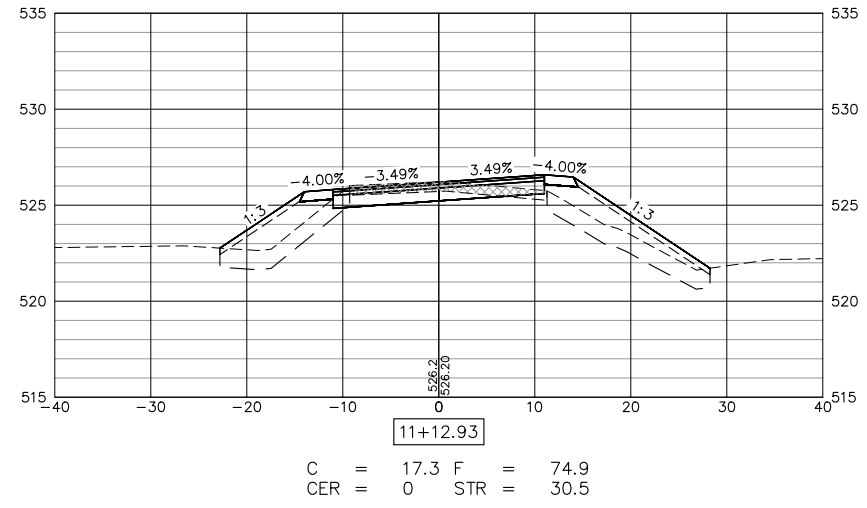
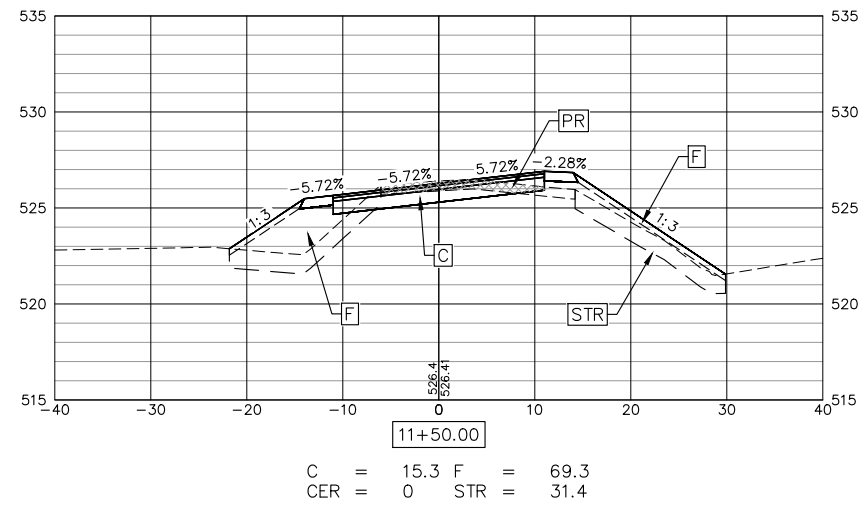
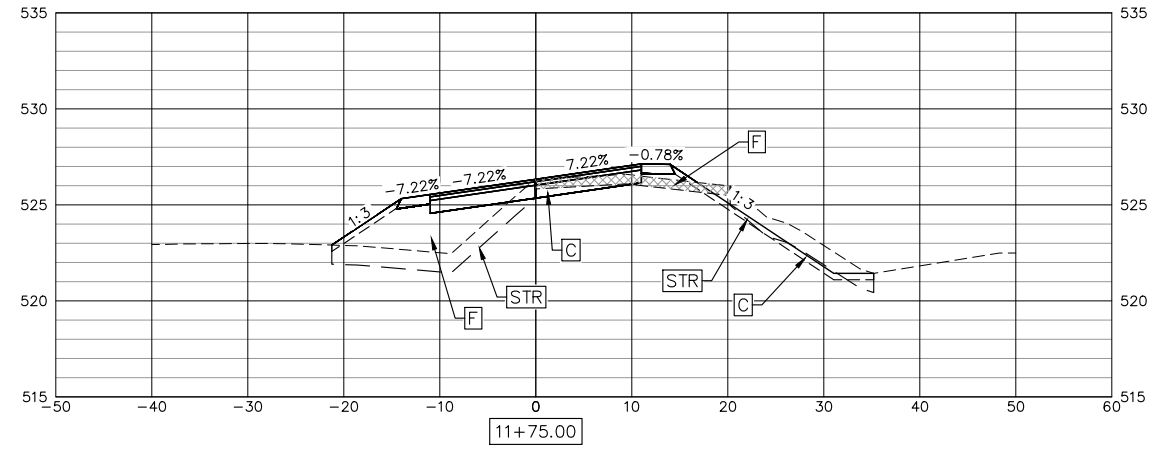
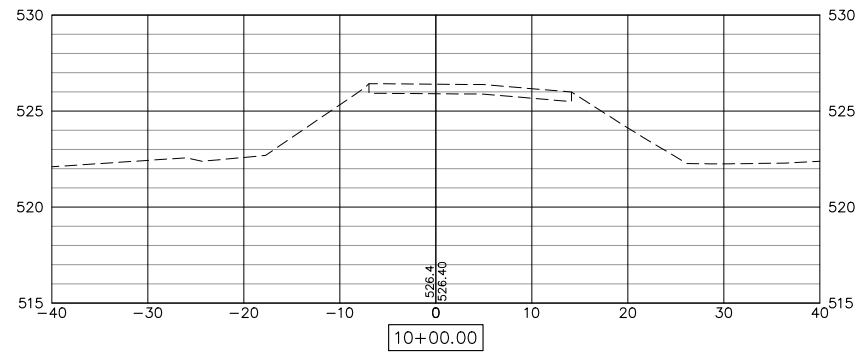
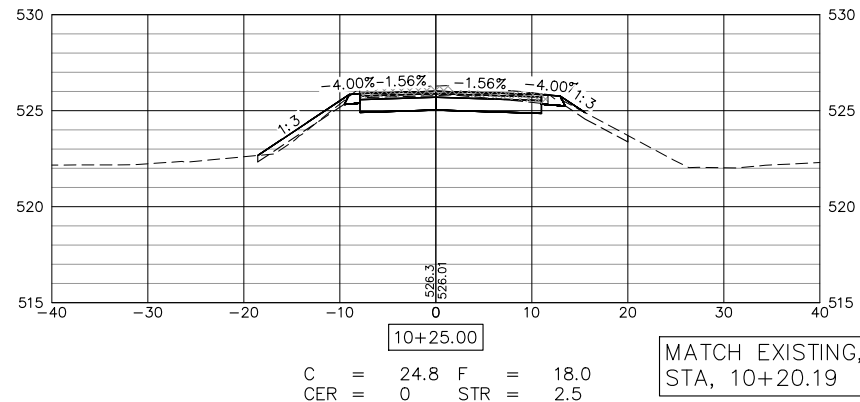
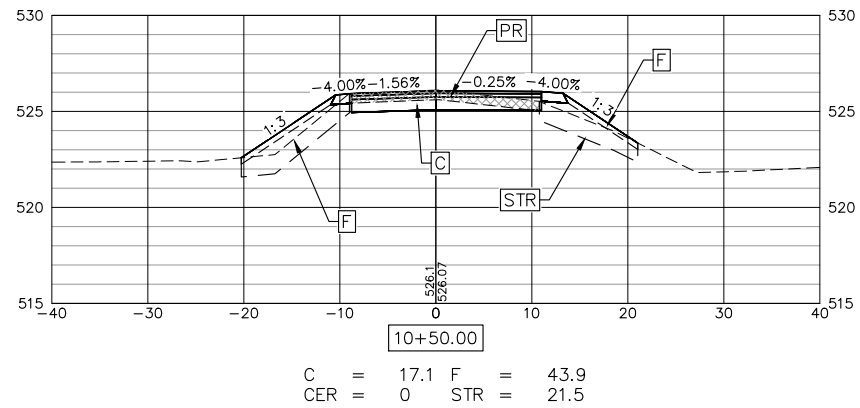
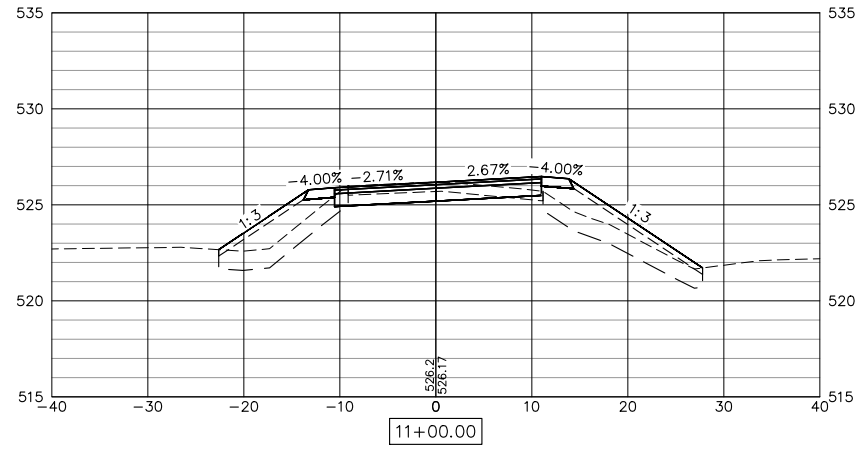
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PLOT SCALE =	DRAWN — TAS	REVISED —
PLOT DATE = 9-30-2024	CHECKED — AAG	REVISED —
	DATE — 9-30-2024	REVISED —

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SOIL AND ROCK BORING LOGS  
 4TH ST. BRIDGE REPLACEMENT  
 PONTONUC, ILLINOIS  
 SHEET NO. 17 OF 17 SHEETS

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-00002-00-BR	HANCOCK	34	27
4th STREET		CONTRACT NO. 93824	
ILLINOIS			

Monday, September 30, 2024 11:43:49 AM  
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**LEGEND**

- C = EARTH EXCAVATION
- CER = EARTH EXCAVATION (EXISTING ROAD)
- F = EMBANKMENT
- STR = STRIPPING



USER NAME = TAB	DESIGNED -- WJD/TAB	REVISED
PLOT SCALE = AS SHOWN	DRAWN -- TAB	REVISED --
PLOT DATE = 9-30-2024	CHECKED -- WJD/TAB	REVISED --
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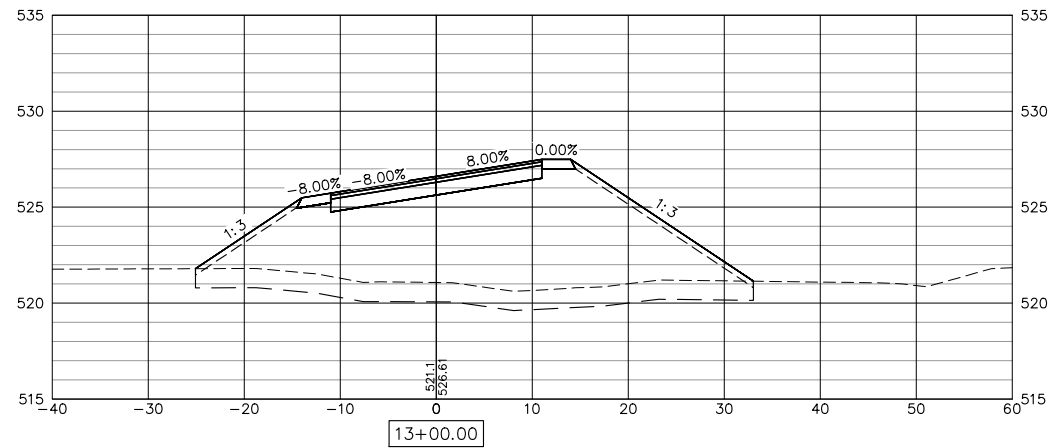
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS**  
**4TH ST. BRIDGE REPLACEMENT**  
PONTIAC, ILLINOIS

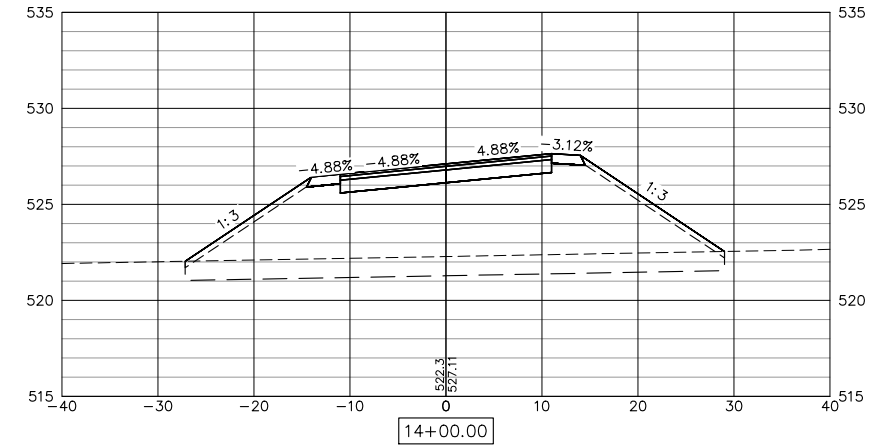
SCALE: AS SHOWN    SHEET NO. 28 OF 34 SHEETS    FIELD BOOK: HANCOCK COUNTY BOOK I

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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4th STREET	CONTRACT NO. 93824		
ILLINOIS JOB: C-96-101-21			

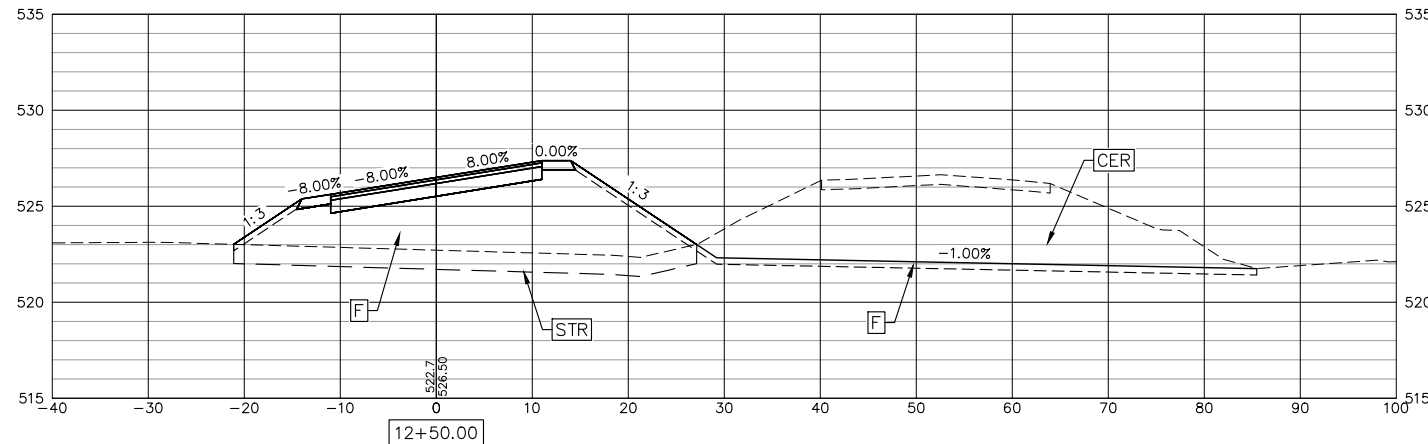




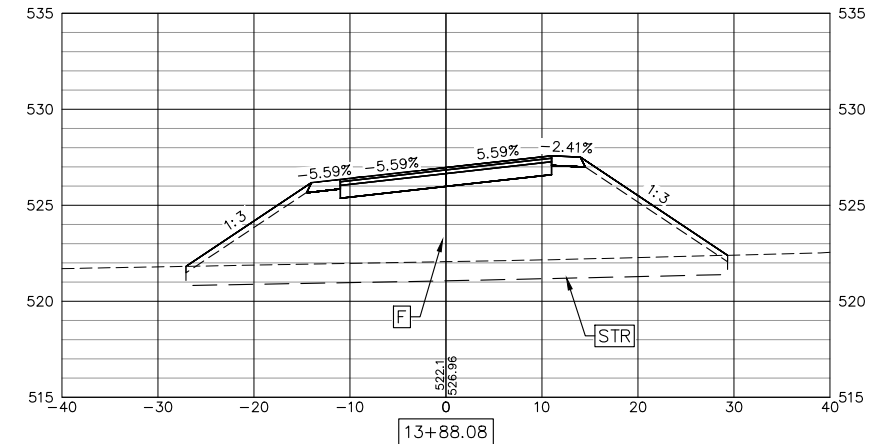
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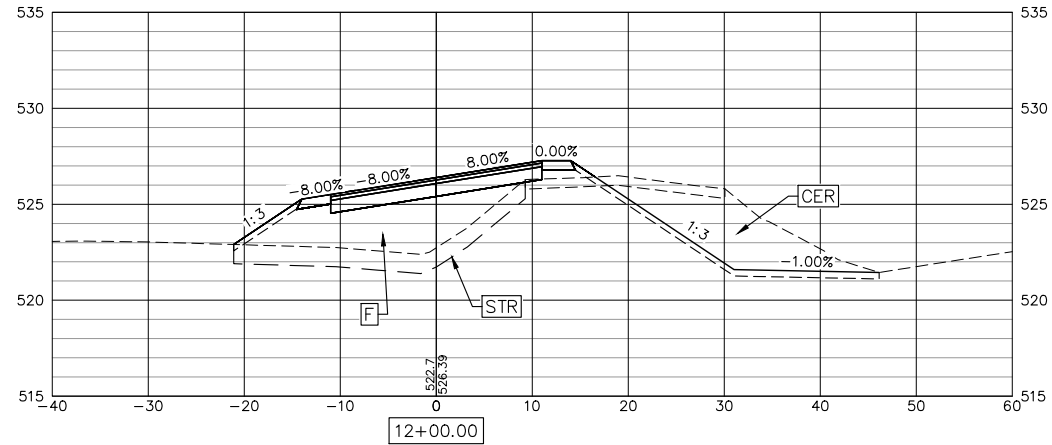
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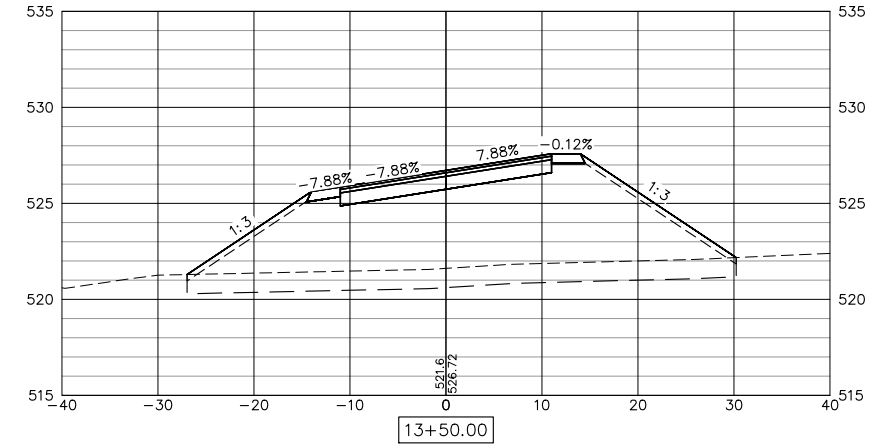
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 CER = 200.0 STR = 33.1



C = 0 F = 307.1  
 CER = 0 STR = 56.1



C = 0 F = 124.3  
 CER = 65.2 STR = 30.3



C = 0 F = 263.2  
 CER = 0 STR = 57.6

**LEGEND**  
 C = EARTH EXCAVATION  
 CER = EARTH EXCAVATION (EXISTING ROAD)  
 F = EMBANKMENT  
 STR = STRIPPING

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 4TH ST. BRIDGE REPLACEMENT  
 PONTIAC, ILLINOIS

SCALE: AS SHOWN SHEET NO. 29 OF 34 SHEETS FIELD BOOK: HANCOCK COUNTY BOOK I

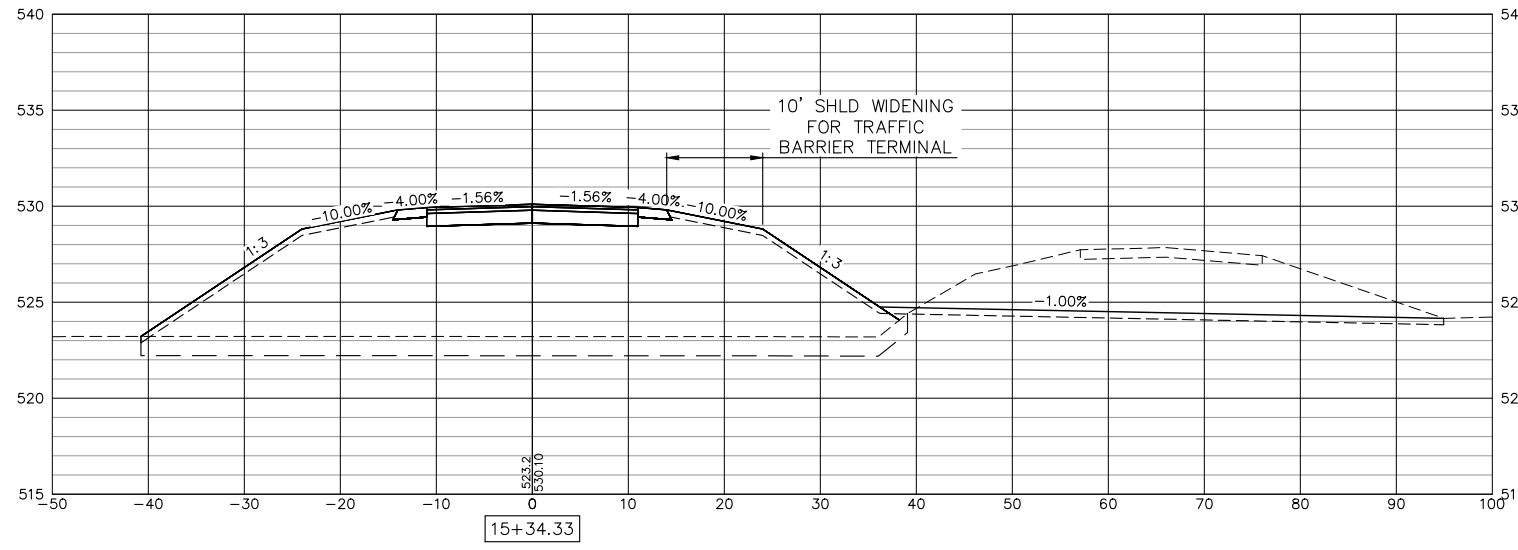
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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4th STREET		CONTRACT NO. 93824	
ILLINOIS JOB: C-96-101-21			

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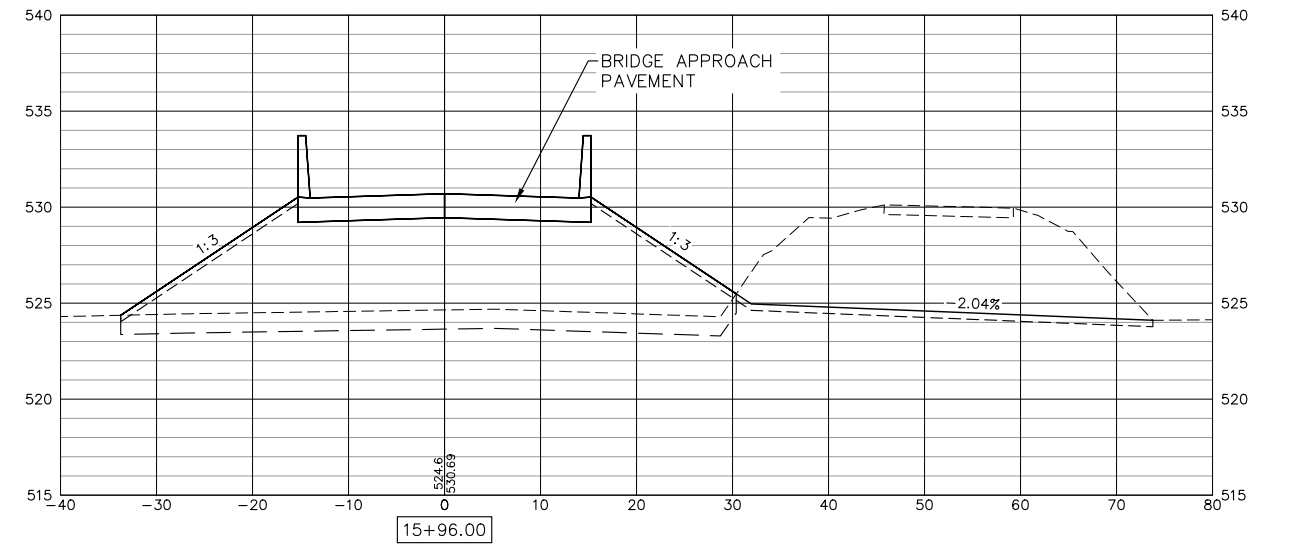


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PLOT SCALE = AS SHOWN	DRAWN -- TAB	REVISED --
PLOT DATE = 9-30-2024	CHECKED -- WJD/TAB	REVISED --
	DATE -- 9-30-2024	REVISED --

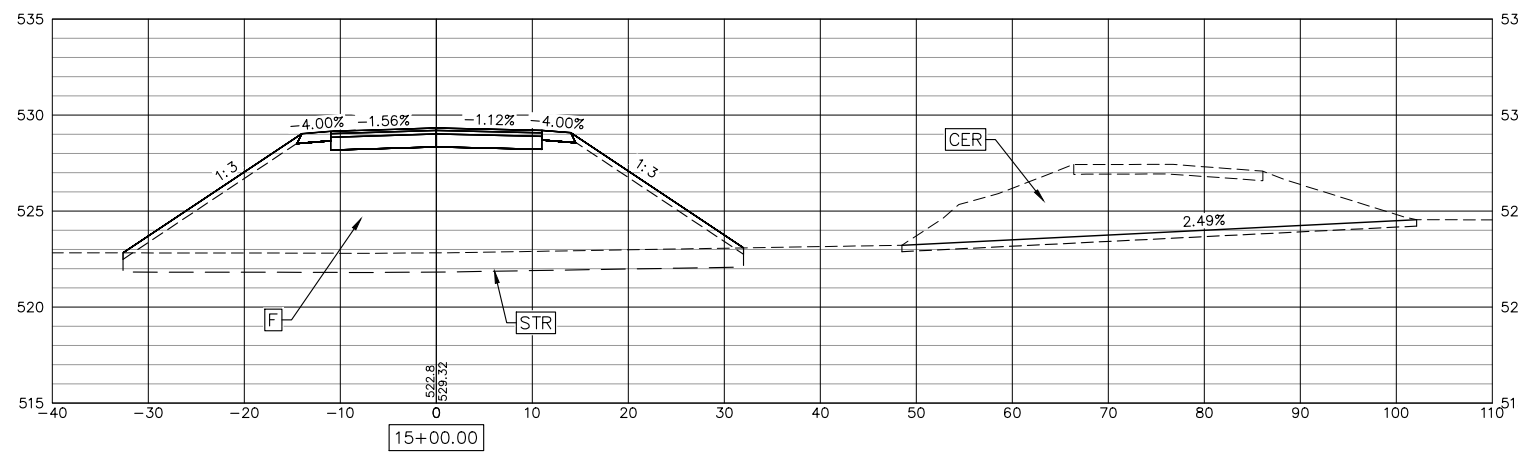
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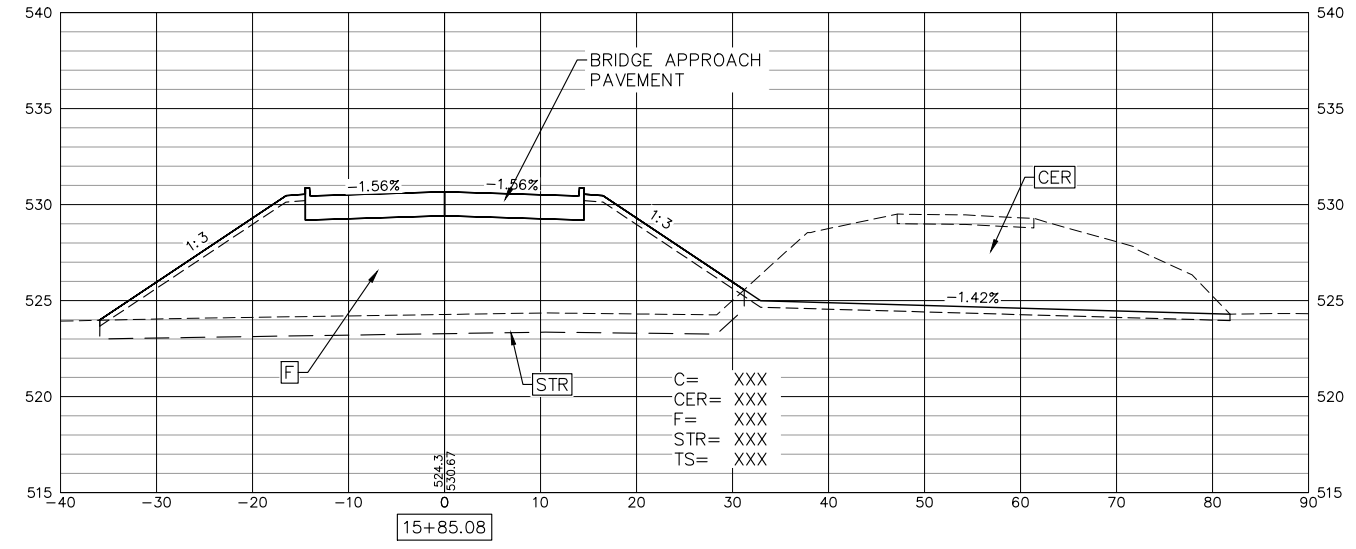
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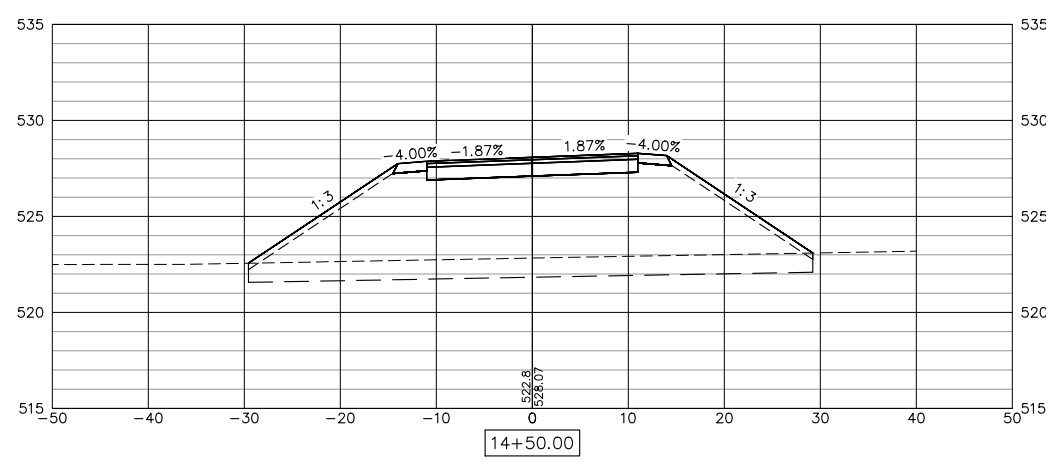
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C = 0 F = 411.4  
 CER = 147.3 STR = 65.1

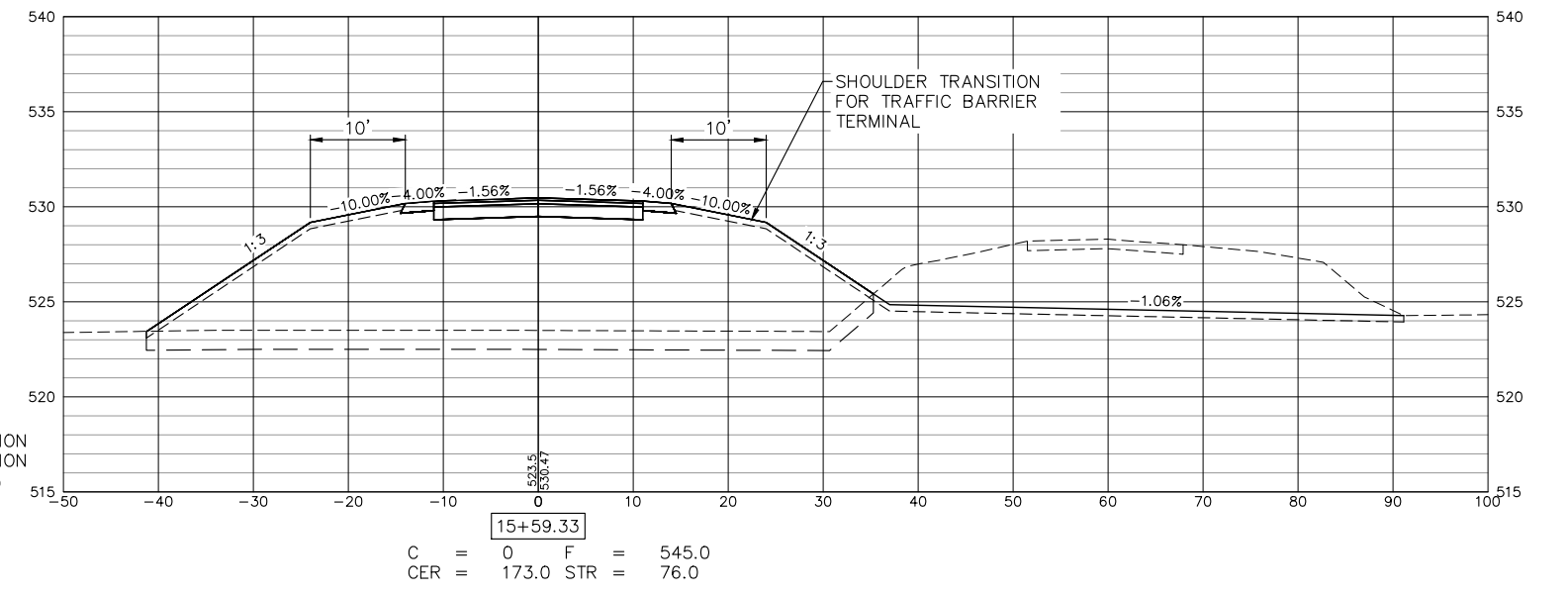


C = 0 F = 430.4  
 CER = 198.6 STR = 67.1



C = 0 F = 281.7  
 CER = 0 STR = 58.8

**LEGEND**  
 C = EARTH EXCAVATION  
 CER = EARTH EXCAVATION (EXISTING ROAD)  
 F = EMBANKMENT  
 STR = STRIPPING



C = 0 F = 545.0  
 CER = 173.0 STR = 76.0



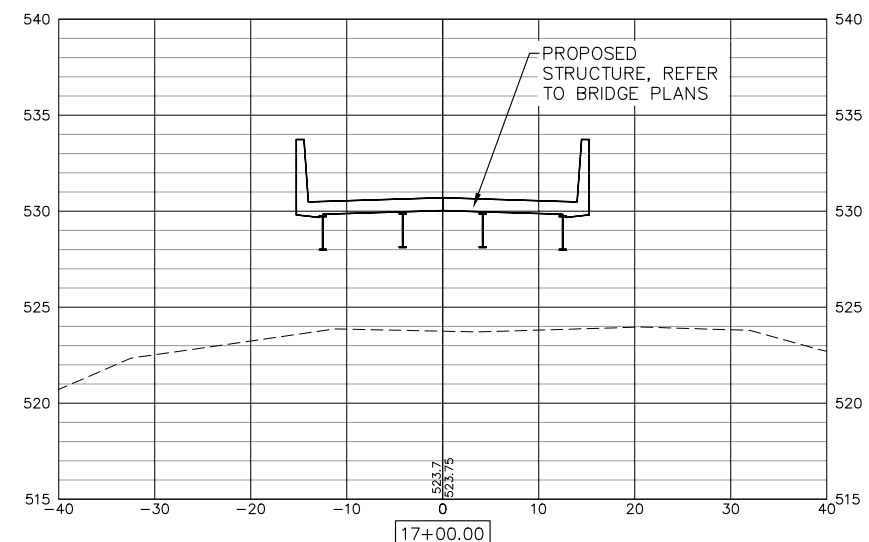
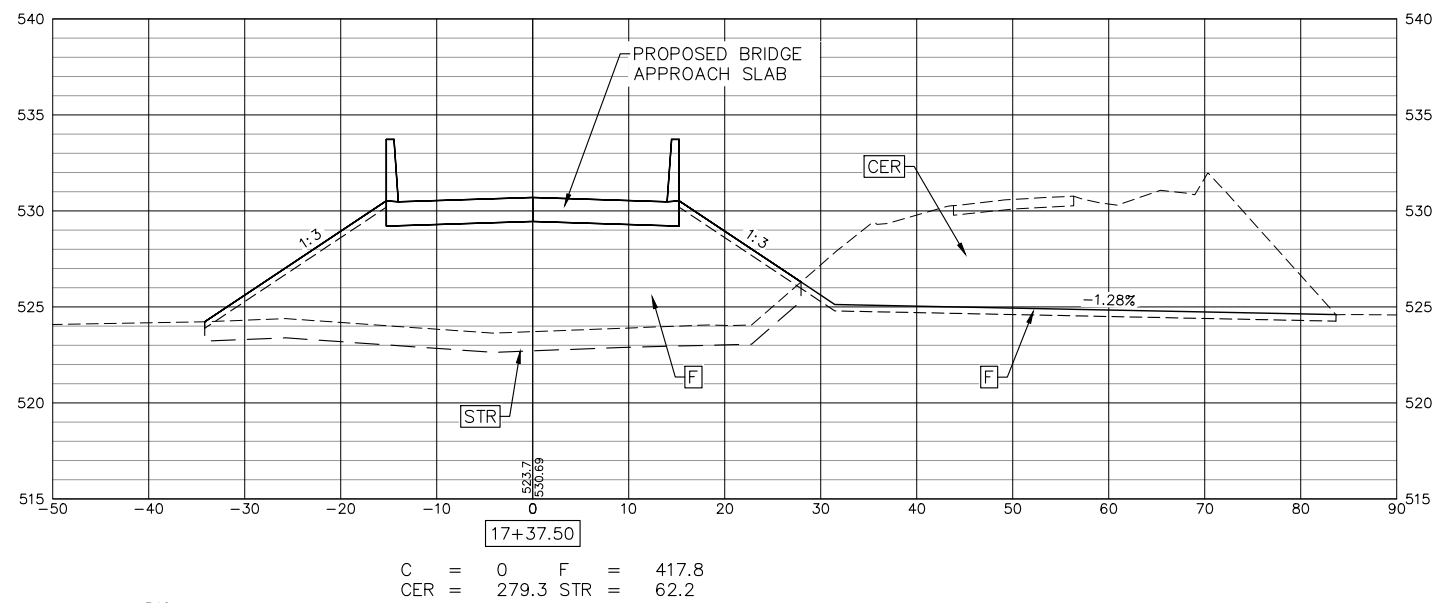
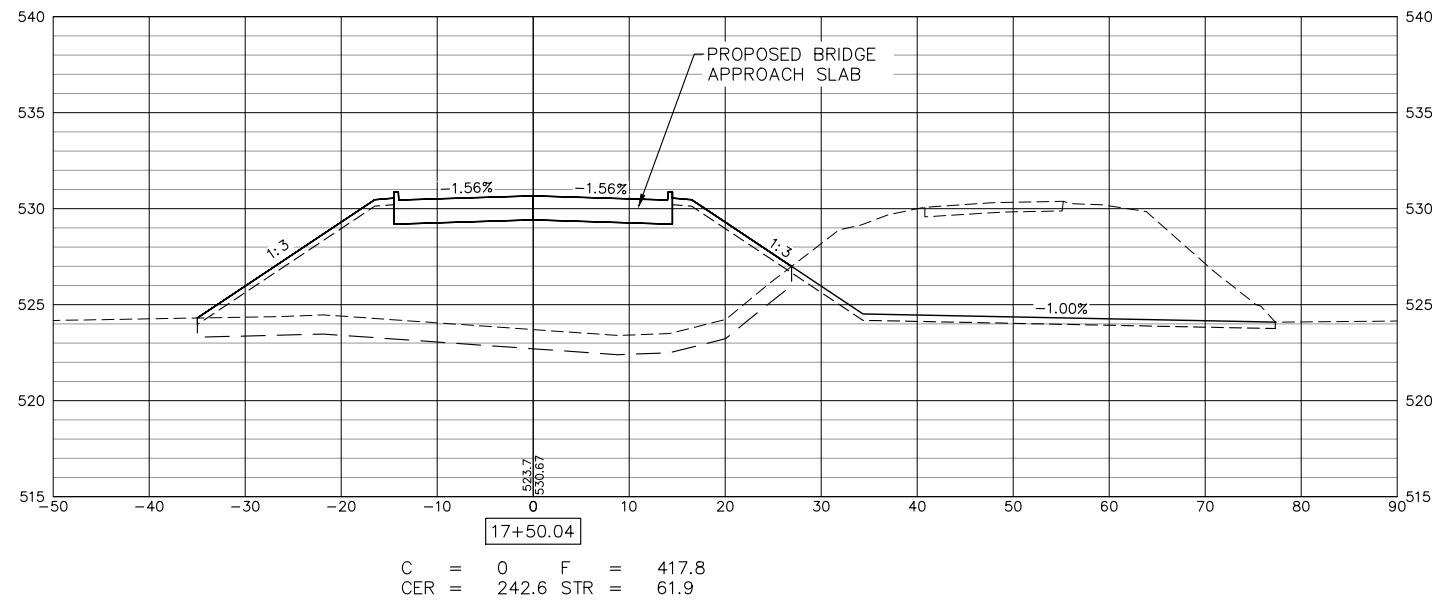
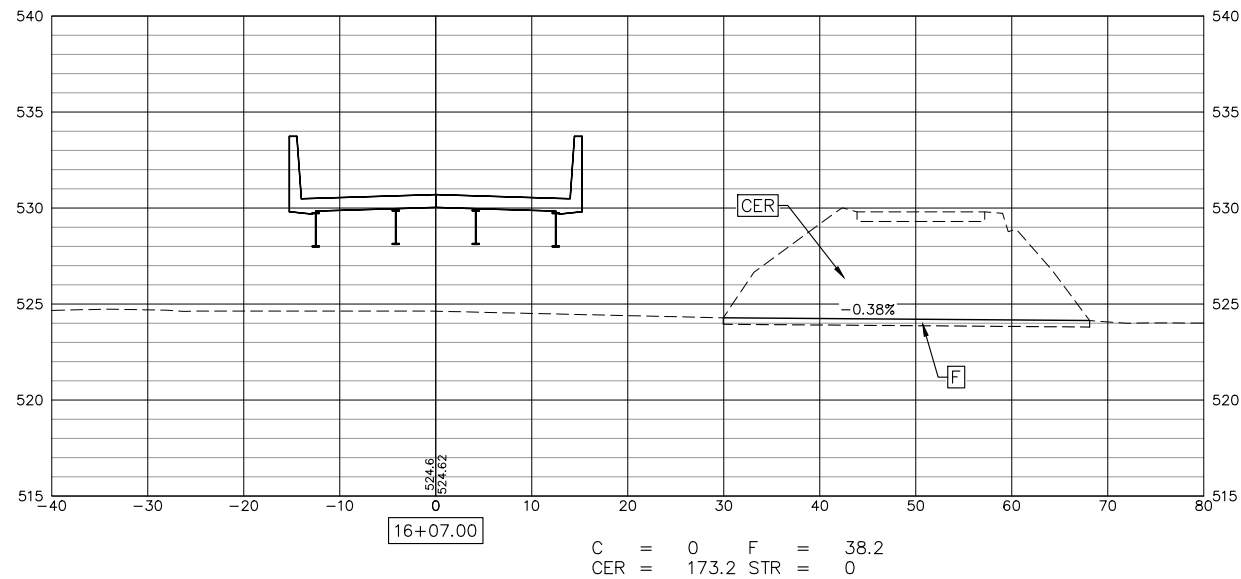
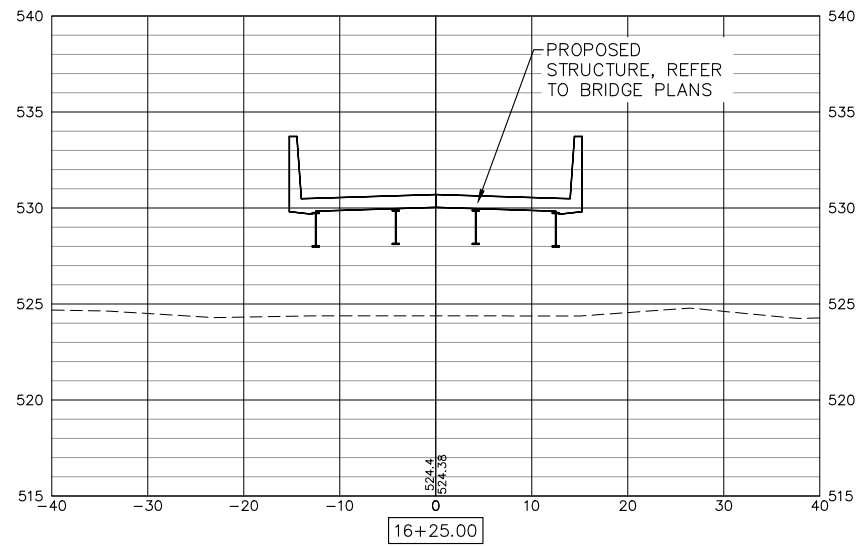
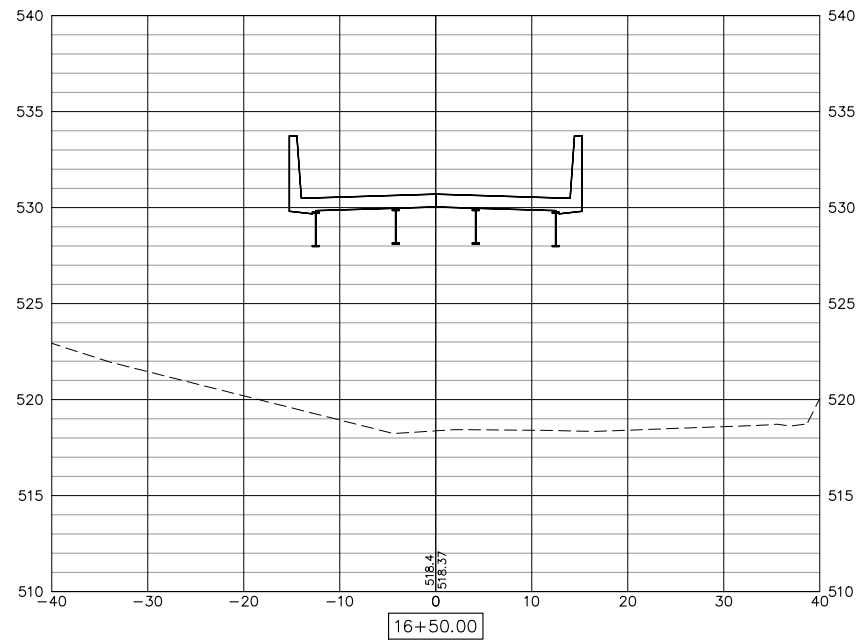
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PLOT SCALE = AS SHOWN	DRAWN -- TAB	REVISED --
PLOT DATE = 9-30-2024	CHECKED -- WJD/TAB	REVISED --
	DATE -- 9-30-2024	REVISED --

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 4TH ST. BRIDGE REPLACEMENT  
 PONTIAC, ILLINOIS  
 SCALE: AS SHOWN SHEET NO. 30 OF 34 SHEETS FIELD BOOK: HANCOCK COUNTY BOOK I

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-0002-00-BR	HANCOCK	34	30
4th STREET	CONTRACT NO. 93824		
ILLINOIS JOB: C-96-101-21			

Monday, September 30, 2024, 11:44:02 AM  
 C:\2021\2106296.01\DESIGN\CIVIL\CSD\SOURCE\2106296.01-PONT BRIDGE CORRIDOR.DWG



**LEGEND**

- C = EARTH EXCAVATION
- CER = EARTH EXCAVATION (EXISTING ROAD)
- F = EMBANKMENT
- STR = STRIPPING



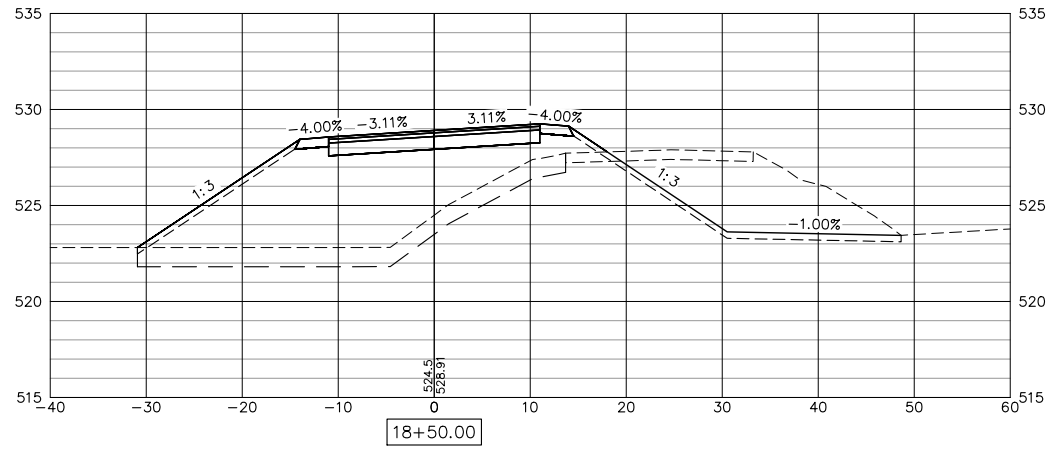
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

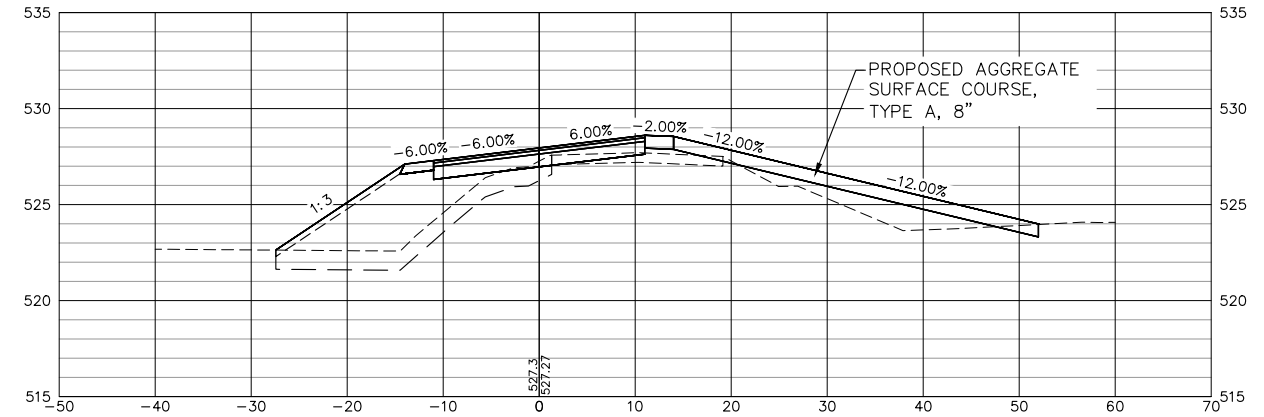
CROSS SECTIONS  
4TH ST. BRIDGE REPLACEMENT  
PONTIAC, ILLINOIS

SCALE: AS SHOWN SHEET NO. 31 OF 34 SHEETS FIELD BOOK: HANCOCK COUNTY BOOK I

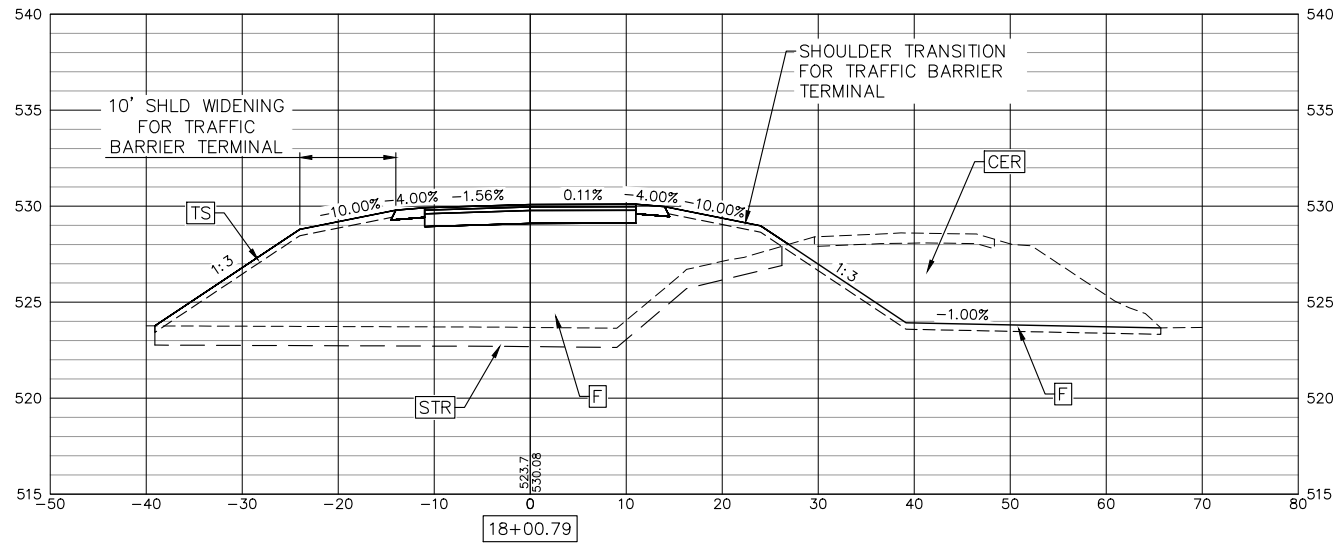
SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-0002-00-BR	HANCOCK	34	31
4th STREET		CONTRACT NO. 93824	
ILLINOIS JOB: C-96-101-21			



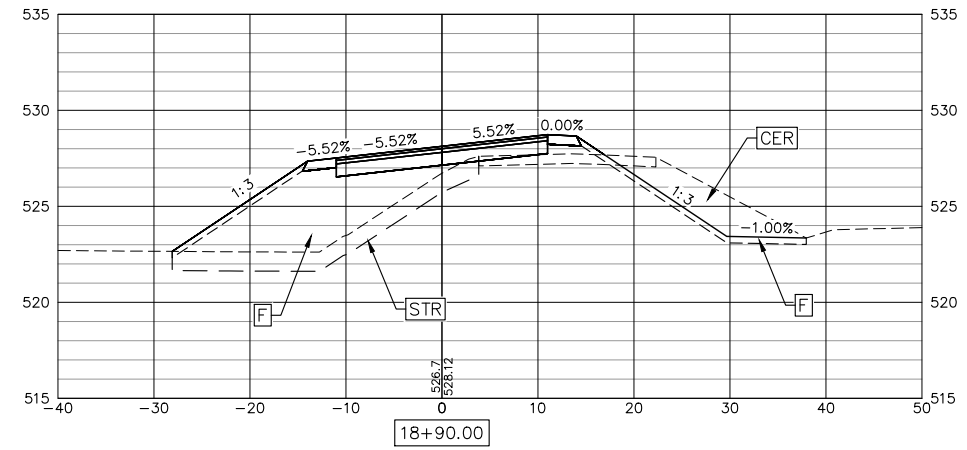
C = 0 F = 231.7  
CER = 83.0 STR = 44.5



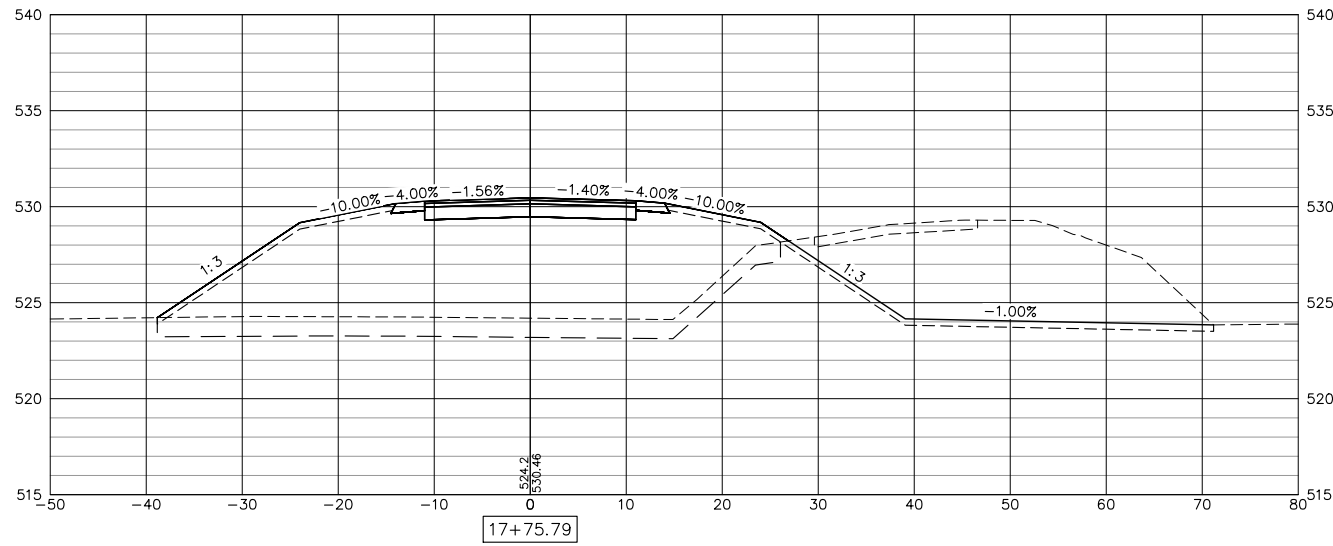
C = 4.9 F = 103.9  
CER = 0 STR = 29.0



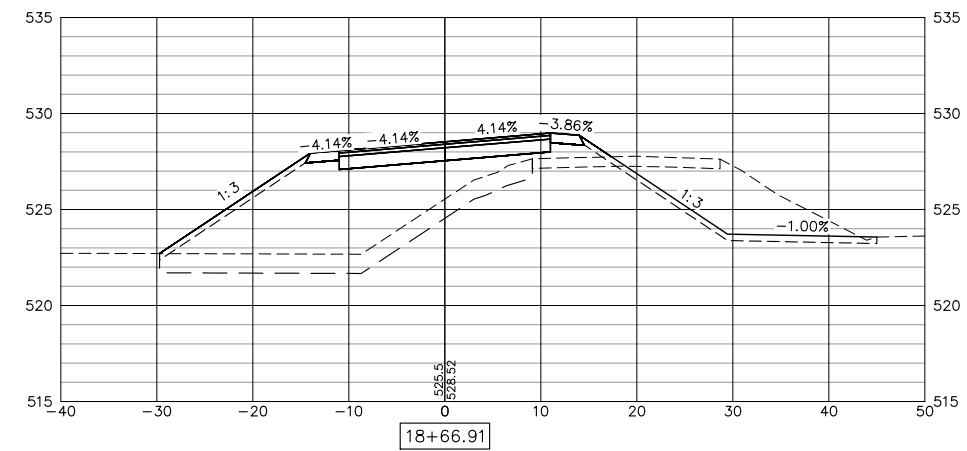
C = 0 F = 400.0  
CER = 130.4 STR = 64.8



C = 0.7 F = 134.0  
CER = 34.5 STR = 32.1



C = 0 F = 412.8  
CER = 177.0 STR = 64.4



C = 0 F = 188.0  
CER = 57.4 STR = 38.8

**LEGEND**  
C = EARTH EXCAVATION  
CER = EARTH EXCAVATION (EXISTING ROAD)  
F = EMBANKMENT  
STR = STRIPPING

Monday, September 30, 2024, 11:44:05 AM  
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USER NAME = TAB	DESIGNED -- WJD/TAB	REVISED
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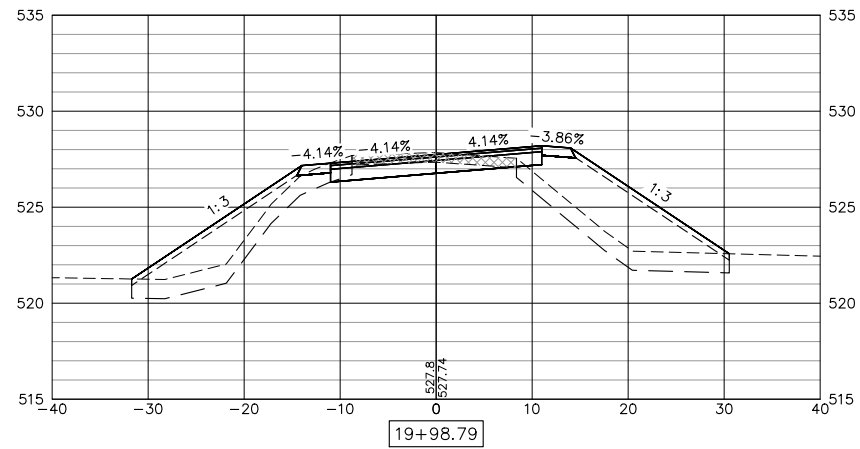
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
4TH ST. BRIDGE REPLACEMENT  
PONTIAC, ILLINOIS

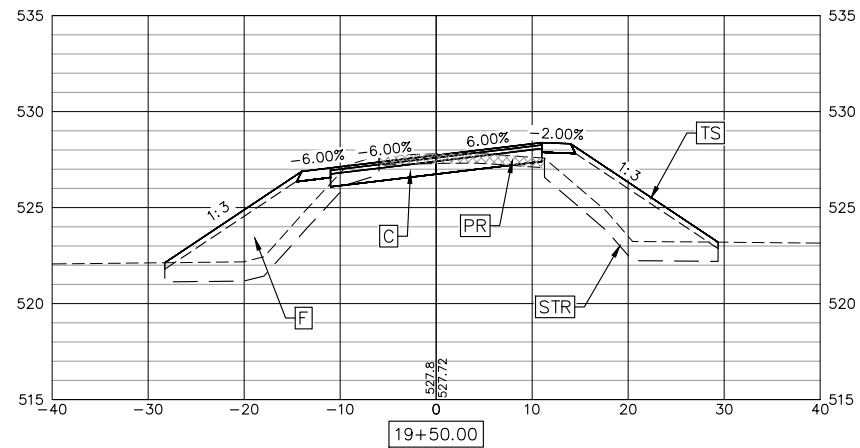
SCALE: AS SHOWN SHEET NO. 32 OF 34 SHEETS FIELD BOOK: HANCOCK COUNTY BOOK I

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-0002-00-BR	HANCOCK	34	32
4th STREET	CONTRACT NO. 93824		
ILLINOIS JOB: C-96-101-21			

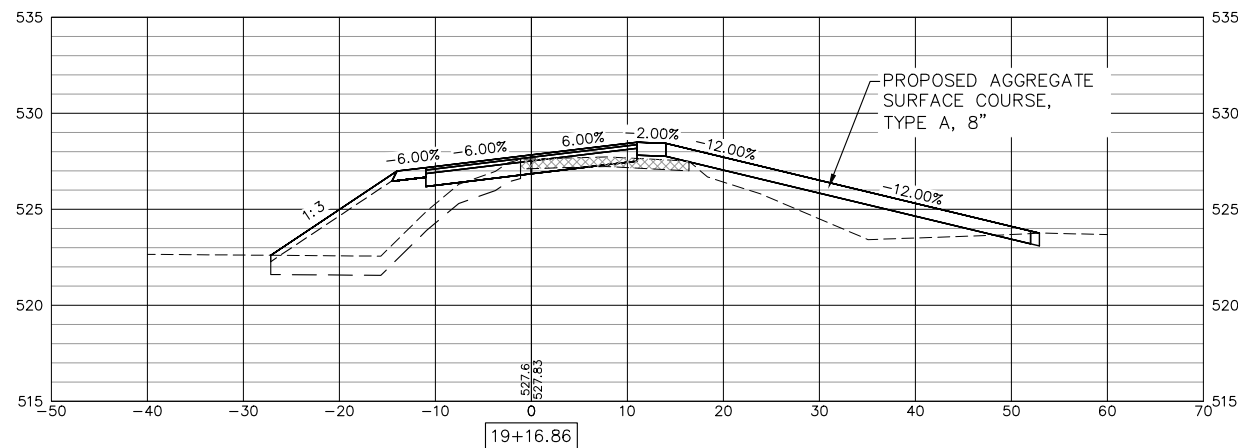
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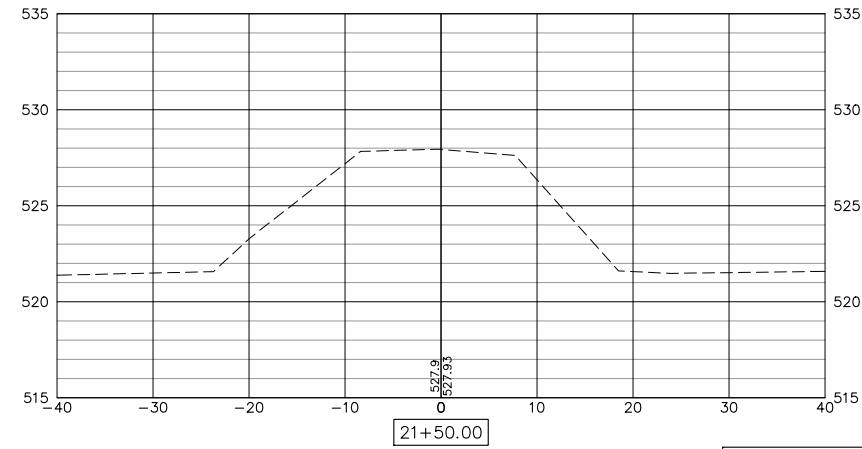
C = 17.1 F = 132.8  
 CER = 0 STR = 44.2



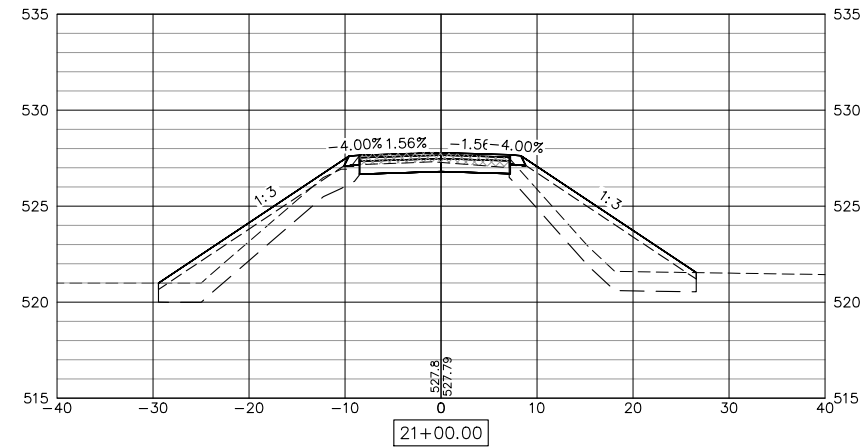
C = 15.1 F = 118.4  
 CER = 0 STR = 40.3



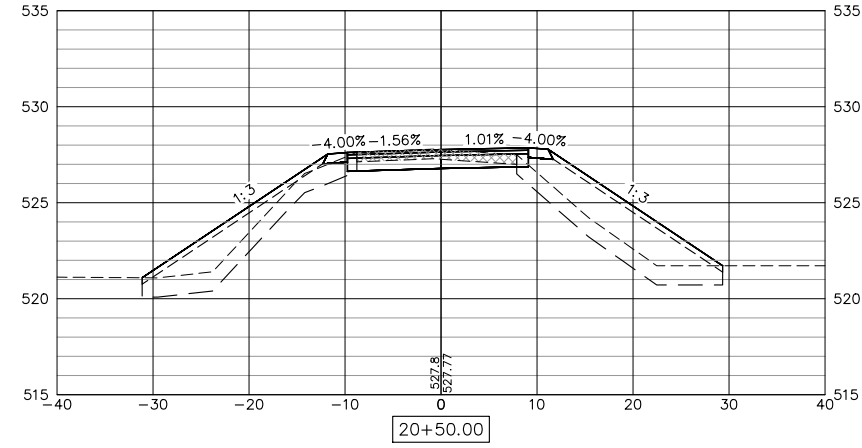
C = 8.0 F = 104.2  
 CER = 0 STR = 25.9



MATCH EXISTING, STA, 21+05.0



C = 14.8 F = 112.5  
 CER = 0 STR = 40.0



C = 15.0 F = 122.8  
 CER = 0 STR = 43.7

**LEGEND**

- C = EARTH EXCAVATION
- CER = EARTH EXCAVATION (EXISTING ROAD)
- F = EMBANKMENT
- STR = STRIPPING



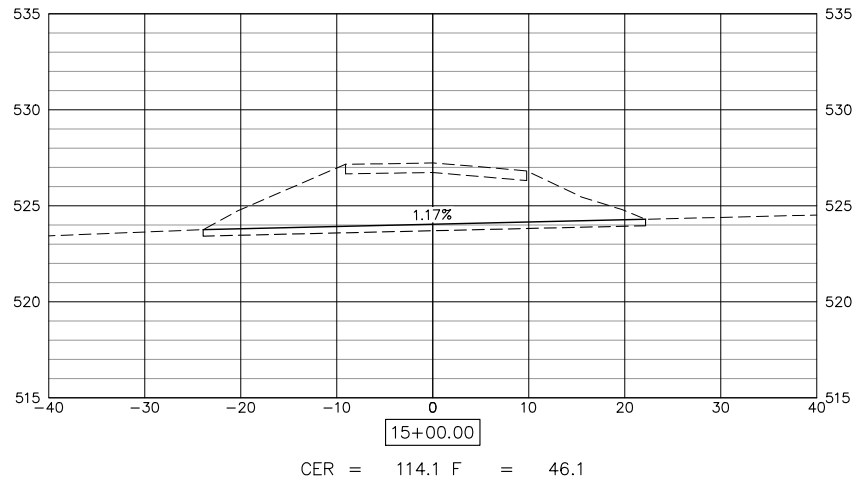
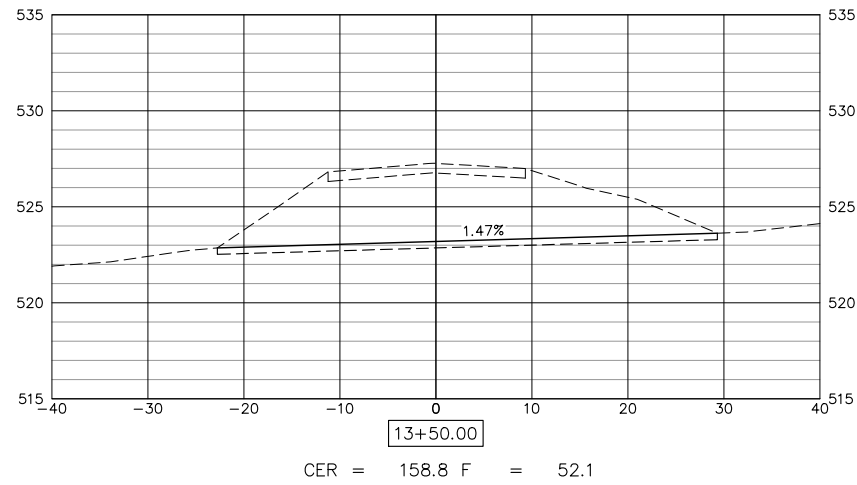
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PLOT SCALE = AS SHOWN	DRAWN -- TAB	REVISED --
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

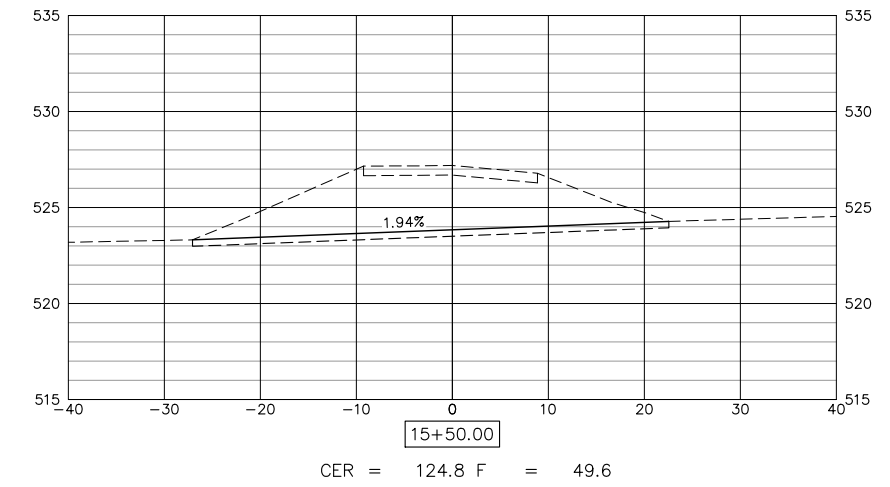
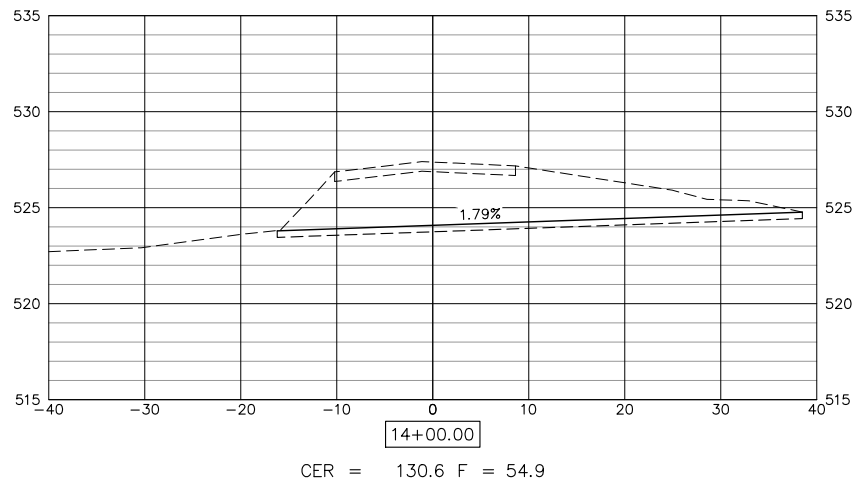
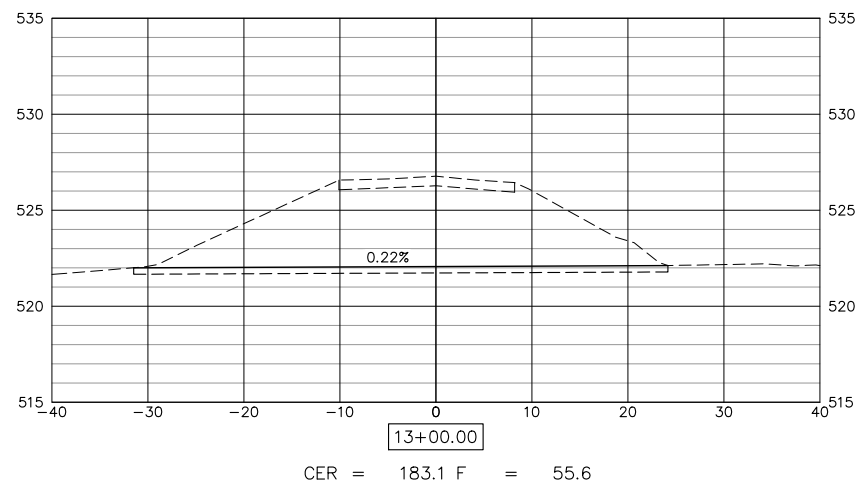
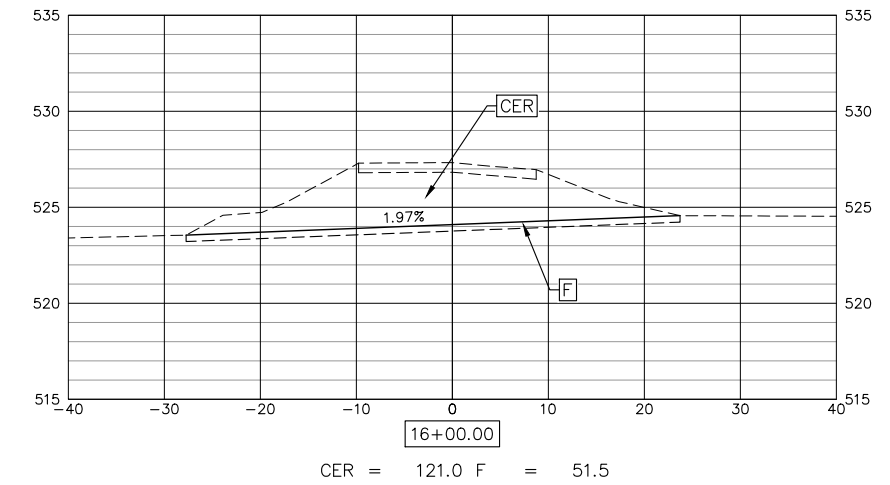
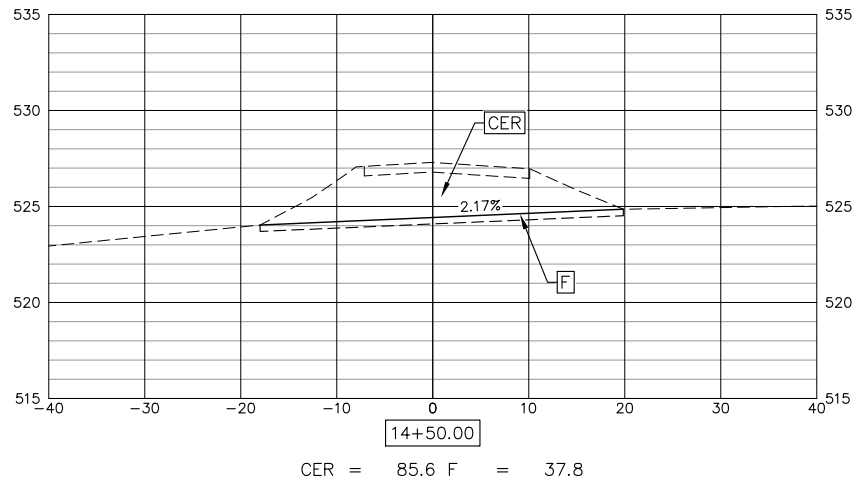
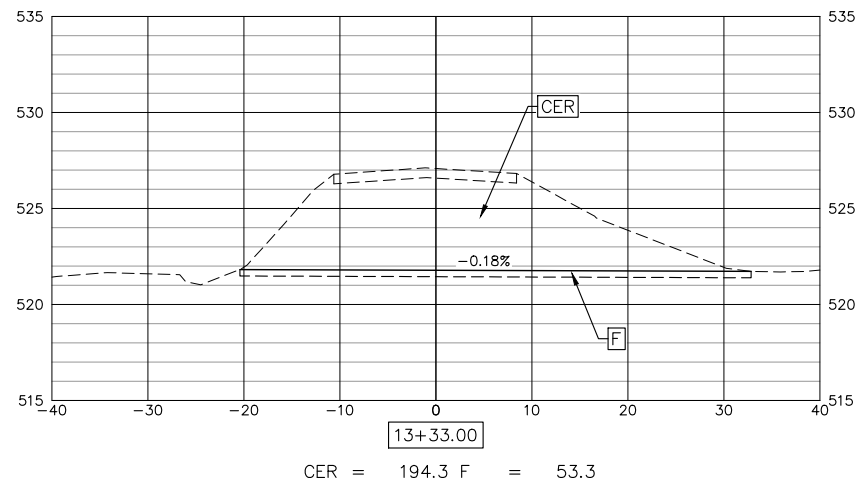
**CROSS SECTIONS**  
**4TH ST. BRIDGE REPLACEMENT**  
PONTOOSUC, ILLINOIS

SCALE: AS SHOWN | SHEET NO. 33 OF 34 SHEETS | FIELD BOOK: HANCOCK COUNTY BOOK I

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-00002-00-BR	HANCOCK	34	33
4th STREET		CONTRACT NO. 93824	
ILLINOIS JOB: C-96-101-21			



**LEGEND**  
F = EMBANKMENT  
CER = EARTH EXCAVATION  
(EXISTING ROAD)



Monday, September 30, 2024 11:44:13 AM  
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USER NAME = TAB	DESIGNED -- WJD/TAB	REVISED --
PLOT SCALE = AS SHOWN	DRAWN -- TAB	REVISED --
PLOT DATE = 9-30-2024	CHECKED -- WJD/TAB	REVISED --
	DATE -- 9-30-2024	REVISED --

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING ROAD CROSS SECTIONS  
4TH ST. BRIDGE REPLACEMENT

SCALE: AS SHOWN | SHEET NO. 34 OF 34 SHEETS | FIELD BOOK: HANCOCK COUNTY BOOK I

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
20-00002-00-BR	HANCOCK	34	34
4th STREET	CONTRACT NO. 93824		
ILLINOIS JOB: C-96-101-21			