

INDEX OF SHEETS

SHEET NO. DESCRIPTION 03-03-2017 LETTING ITEM 102

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HIGHWAY STANDARDS: SEE SHEET 2

UTILITIES

EGYPTIAN ELECTRIC COOP
10169 OLD HIGHWAY 3
MURPHYSBORO, IL 62966
ATTN: BROOKE GUTHMAN
618-684-2143

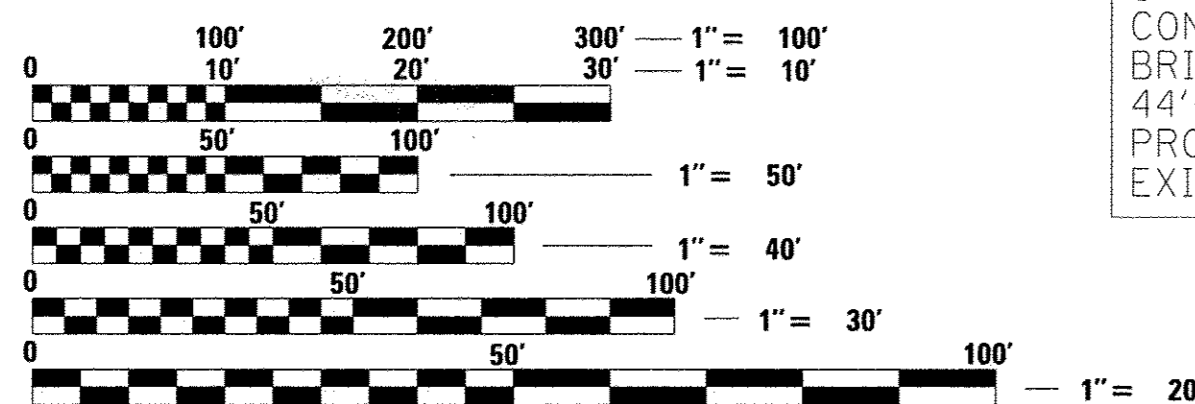
SOUTH HIGHWAY WATER DISTRICT
111 CEDAR CREEK ROAD
MAKANDA, IL 62958
618-529-5313

FRONTIER COMMUNICATIONS
208 W UNION STREET
MARION, IL 62959
ATTN: TERRY PHILLIPS
618-997-0659

CLEARWAVE COMMUNICATIONS
2 N VINE ST
HARRISBURG, IL 62946
ATTN: ROTH CLAYTON
618-294-8078

MEDIACOM
1603 E. DEYOUNG ST.
MARION, IL 62959
ATTN: CHRIS MCMURTRY
618-993-5216 X3607

CARBONDALE TOWNSHIP



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

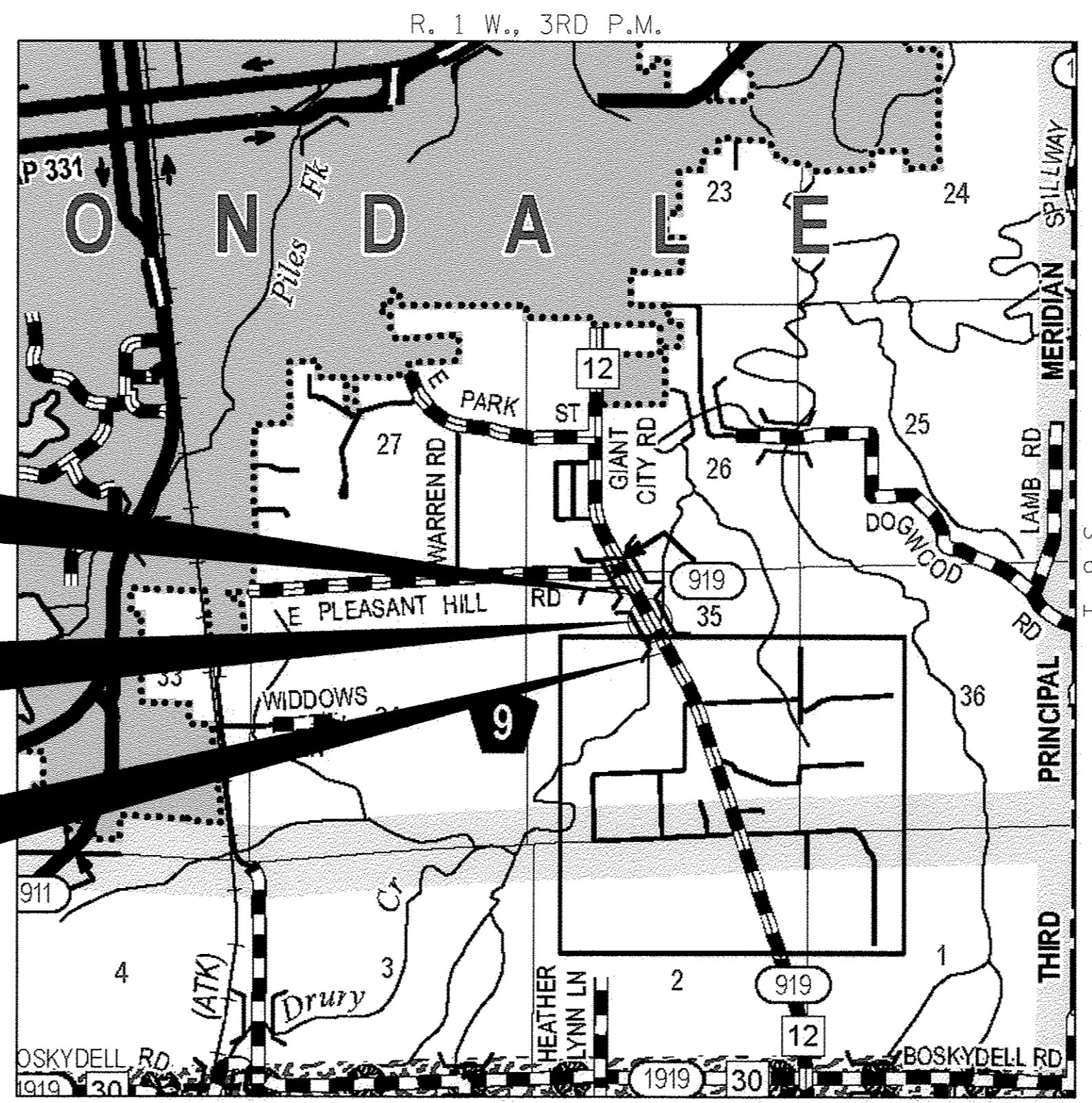
FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)
DESIGN SPEED: 55 MPH
DESIGN TRAFFIC: 8995 ADT (2032)

CONTRACT NO. 99577 PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM
OFF SYSTEM BRIDGE**

**PROJECT BRS-919(111)
SECTION 07-00153-00-BR
JACKSON COUNTY
C.H. 12 / GIANT CITY ROAD
PROPOSED STRUCTURE NO. 039-3267
C-99-505-08**



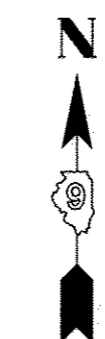
IMPROVEMENT BEGINS
STATION 105+80

STATION 108+68
CONTINUOUS STEEL WIDE FLANGE BEAM
BRIDGE. 3 SPANS: 44'-6", 53'-6", 44'-6"
44'-0" RDWY.; SKEW = 0°
PROPOSED STRUCTURE NO. 039-3267
EXISTING STRUCTURE NO. 039-3009

IMPROVEMENT ENDS
STATION 118+30

LOCATION MAP

APPROXIMATE SCALE: 0 1/2 MILE
GROSS LENGTH OF SECTION = 1250 FEET = 0.237 MILES
NET LENGTH OF SECTION = 1250 FEET = 0.237 MILES
ROADWAY = 1104.2 FEET = 0.209 MILES
BRIDGE = 145.8 FEET = 0.028 MILES



WARNING
CALL JULIE TOLL FREE
1-800-892-0123
**CALL 811
BEFORE YOU DIG**
DIG NO: X0980930

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 919	07-00153-00-BR	JACKSON	70	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 99577	



LOCATION OF SECTION INDICATED THUS: -

ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED 12-19 2016
[Signature]
COUNTY ENGINEER

PASSED 12/27 2016
[Signature]
DISTRICT NINE ENGINEER OF LOCAL ROADS & STREETS
DEC. 27 2016

Releasing For Bid Based on Limited Review
[Signature]
REGION FIVE ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE: 12/14/2016
Joseph W. Renwick
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE CORPORATION
EXPIRES: 11/30/2017

HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.546.3400 www.hlrengineering.com
184.000959
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE CORPORATION

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0011 FUNDING STP 80% FEDERAL / 20% STATE	
		UNIT	TOTAL QUANTITY
20100500	TREE REMOVAL, ACRES	ACRE	0.1
20200100	EARTH EXCAVATION	CU YD	396
20300100	CHANNEL EXCAVATION	CU YD	500
20400800	FURNISHED EXCAVATION	CU YD	215
25100115	MULCH, METHOD 2	ACRE	1.75
25100630	EROSION CONTROL BLANKET	SQ YD	115
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	184
28000400	PERIMETER EROSION BARRIER	FOOT	1,237
28100209	STONE RIPRAP, CLASS A5	T ON	1,110
28200200	FILTER FABRIC	SQ YD	1,100
31100910	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	676
35600709	HOT-MIX ASPHALT BASE COURSE WIDENING, 8 1/4"	SQ YD	407
40200800	AGGREGATE SURFACE COURSE, TYPE B	T ON	29
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,572
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	516
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	207
40600990	TEMPORARY RAMP	SQ YD	95
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	T ON	99
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	88
44000100	PAVEMENT REMOVAL	SQ YD	251
44004250	PAVED SHOULDER REMOVAL	SQ YD	368
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	402
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	497
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50104650	SLOPE WALL REMOVAL	SQ YD	1,154
50200100	STRUCTURE EXCAVATION	CU YD	304
50200300	COFFERDAM EXCAVATION	CU YD	513
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1
50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1
50300100	FLOOR DRAINS	EACH	14

^ SEE SPECIAL PROVISIONS

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0011 FUNDING STP 80% FEDERAL / 20% STATE	
		UNIT	TOTAL QUANTITY
50300225	CONCRETE STRUCTURES	CU YD	287.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	193.3
50300260	BRIDGE DECK GROOVING	SQ YD	861
50300300	PROTECTIVE COAT	SQ YD	1,056
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	117.7
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	LSUM	1
50500505	STUD SHEAR CONNECTORS	EACH	3,885
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	122,610
50800515	BAR SPLICERS	EACH	907
51202100	FURNISHING STEEL PILES HP14X117	FOOT	1,020
51202305	DRIVING PILES	FOOT	1,020
51204100	TEST PILE STEEL HP14X117	EACH	4
51204650	PILE SHOES	EACH	28
51500100	NAME PLATES	EACH	1
52100505	ANCHOR BOLTS, 5/8"	EACH	28
52100520	ANCHOR BOLTS, 1"	EACH	28
52200010	TEMPORARY SHEET PILING	SQ FT	791
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	68
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A 6 FOOT POSTS	FOOT	12.5
63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A 9 FOOT POSTS	FOOT	537.5
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	3
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	7
63200310	GUARDRAIL REMOVAL	FOOT	447
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6
67100100	MOBILIZATION	LSUM	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	LSUM	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1

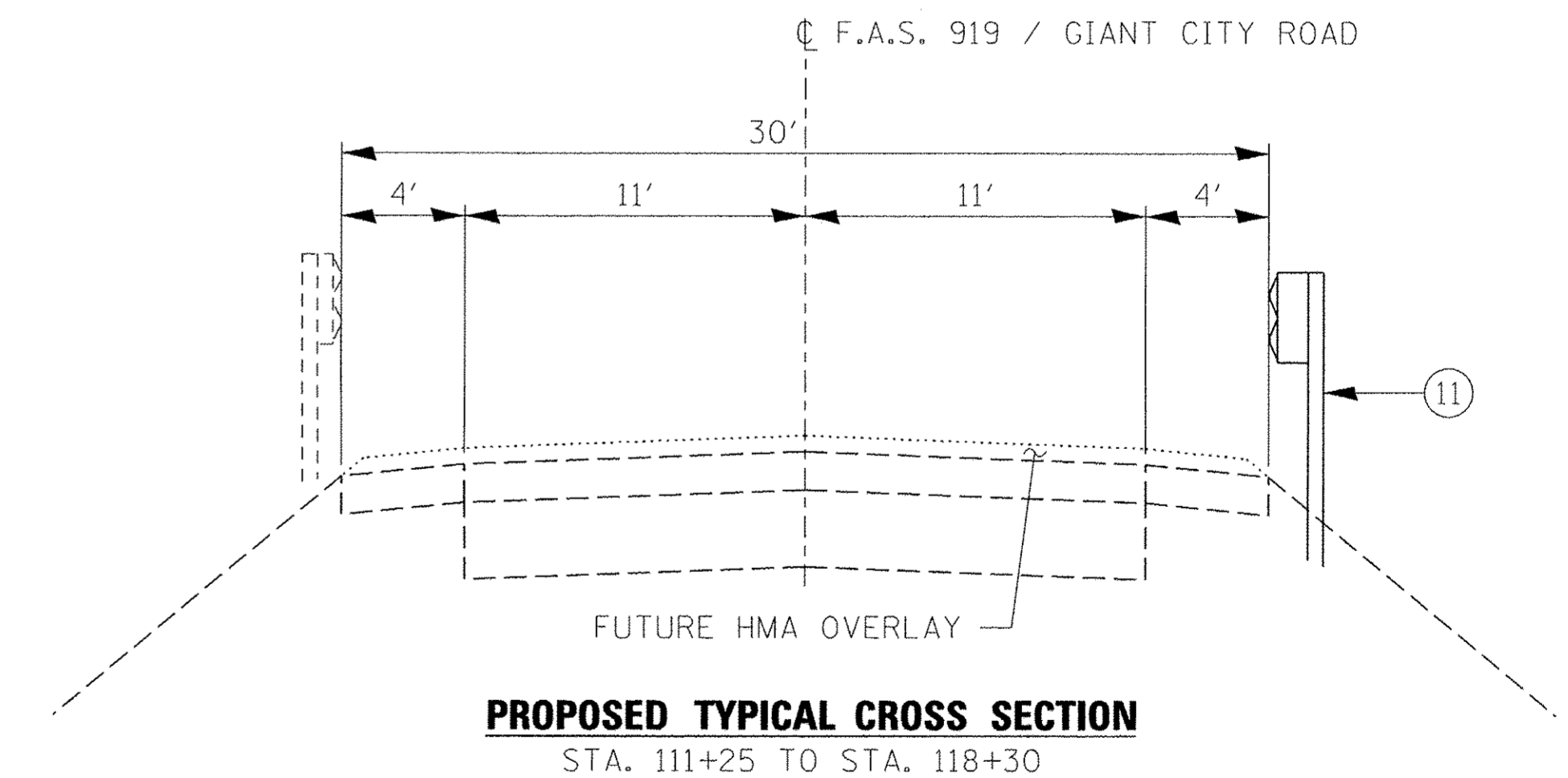
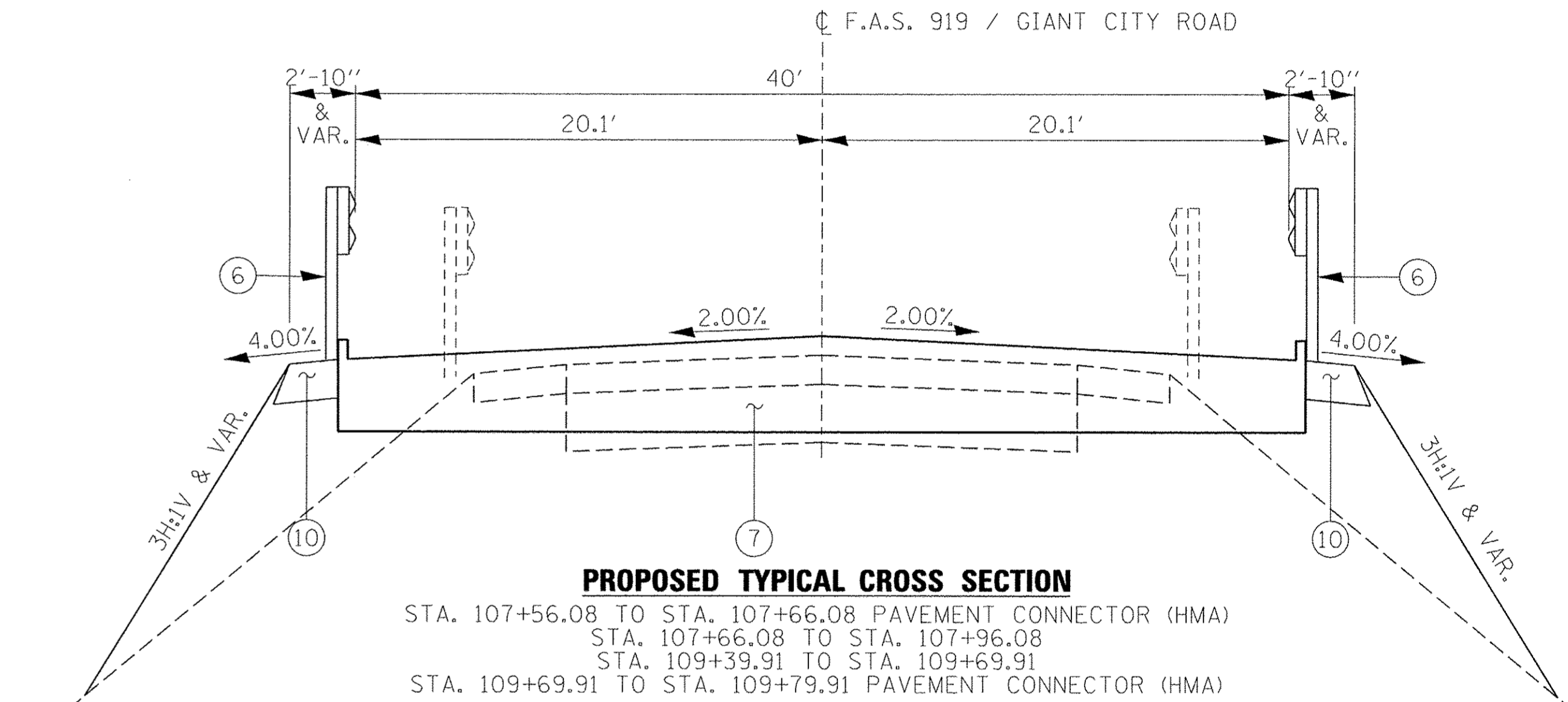
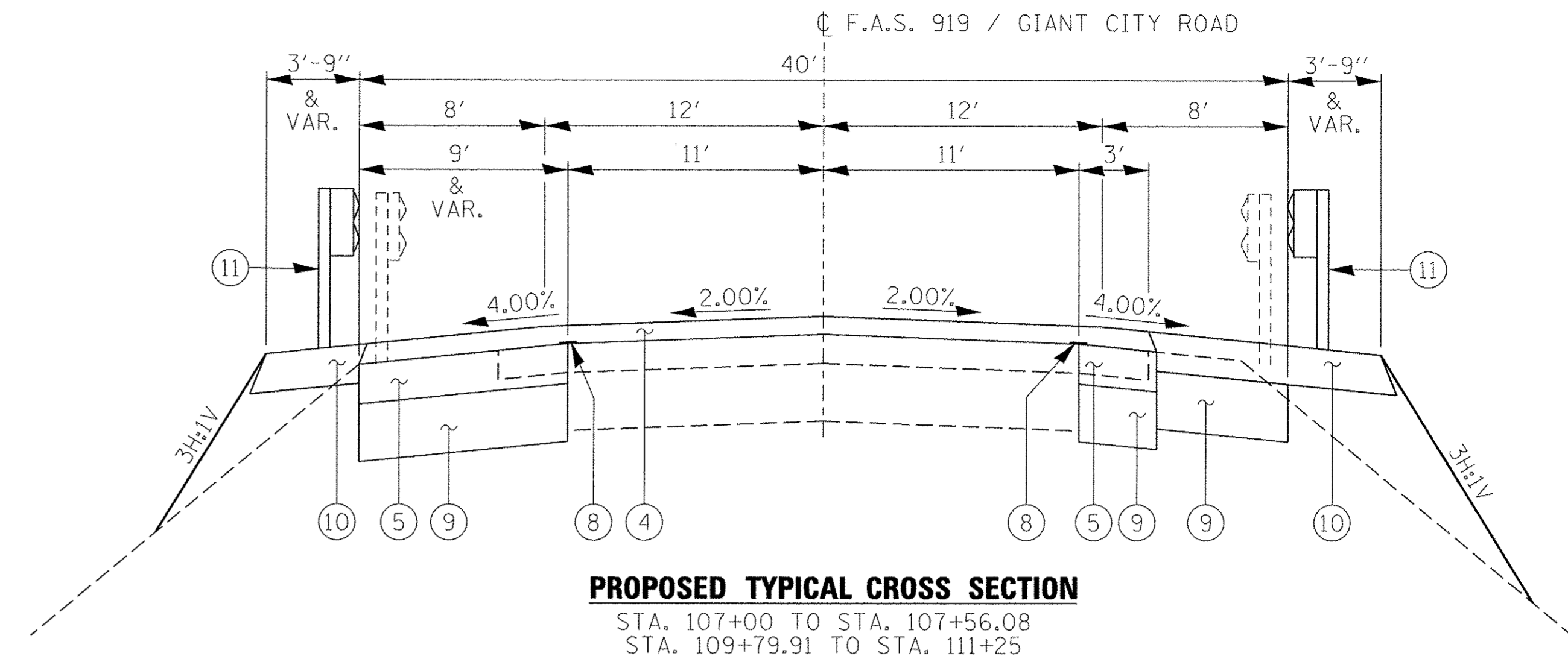
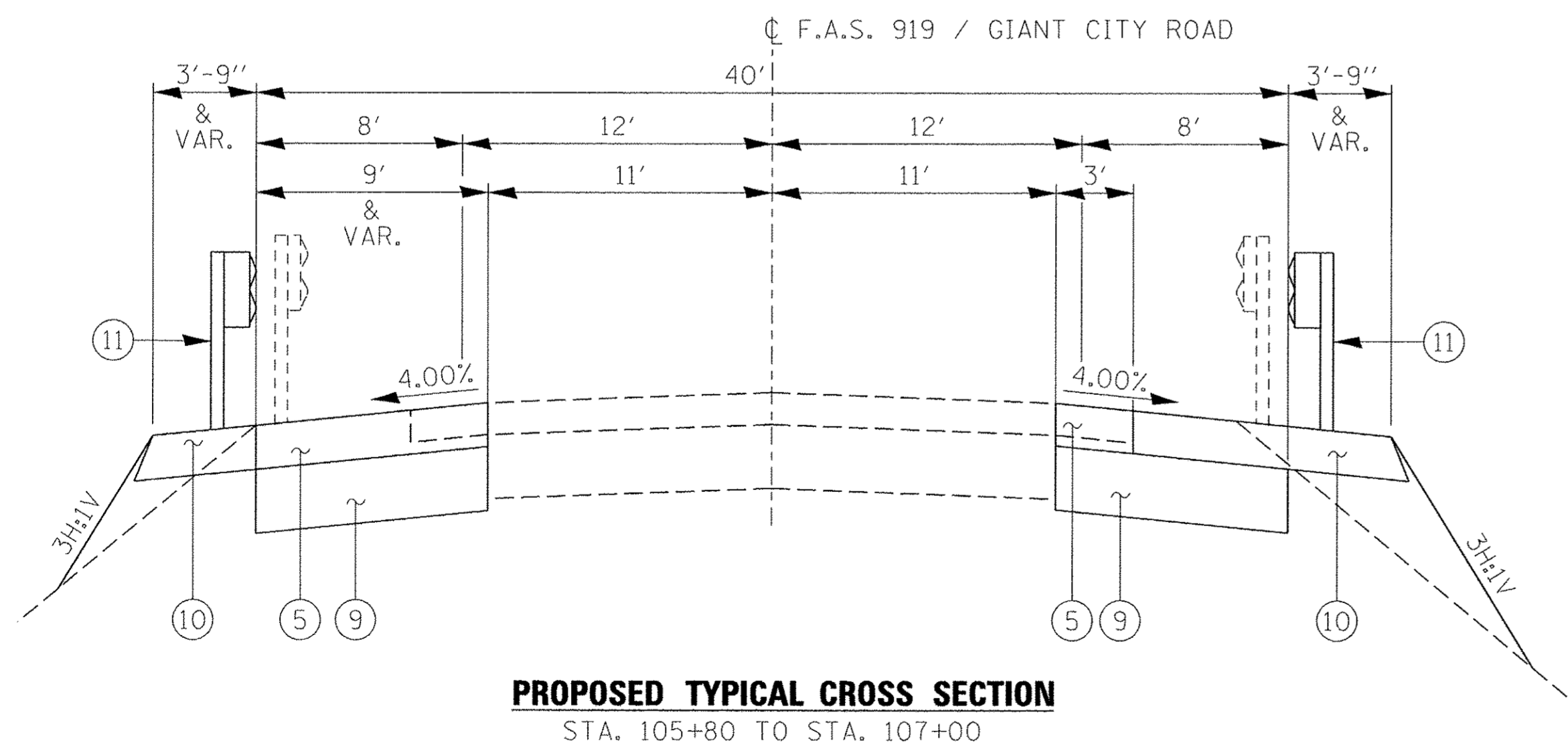
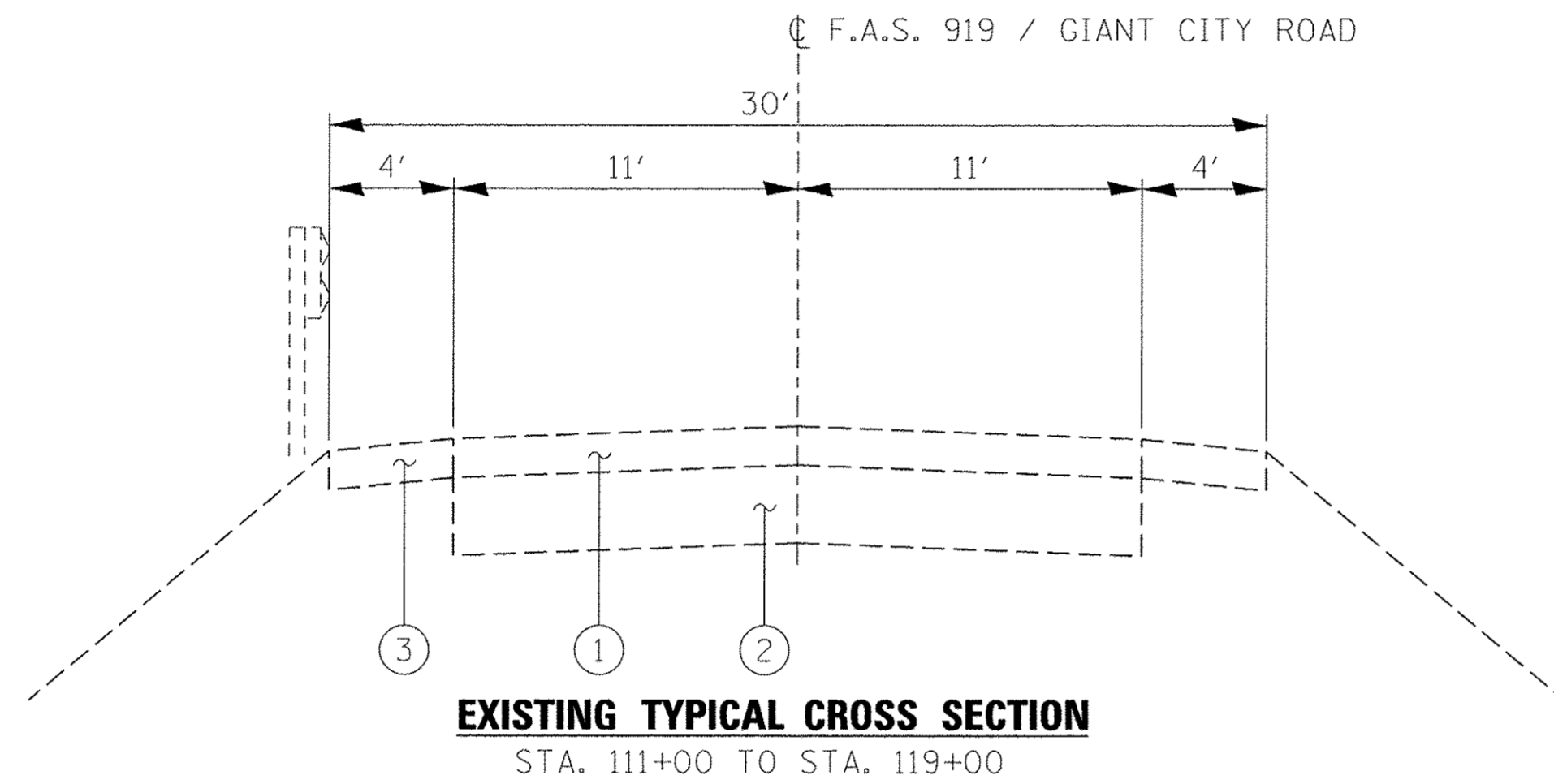
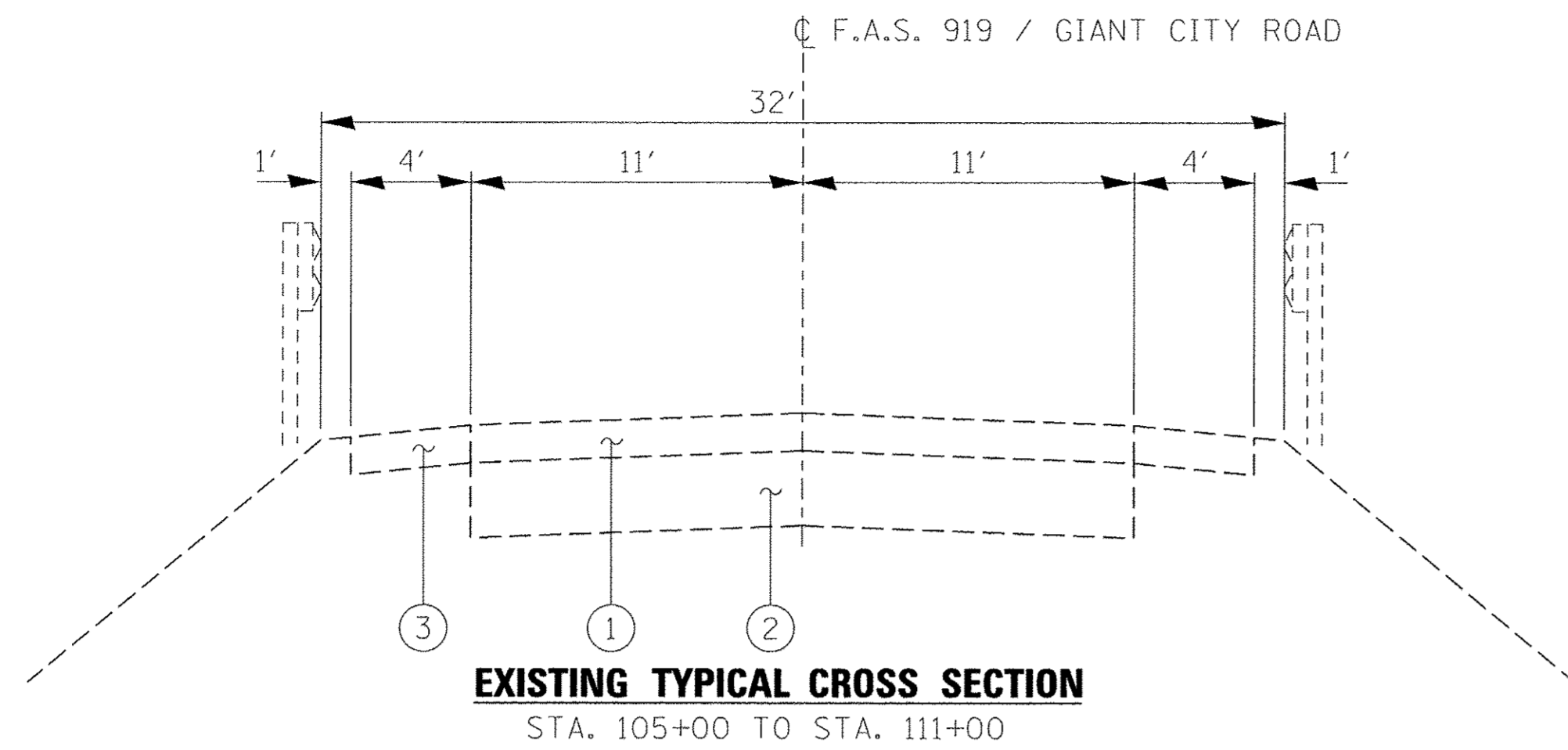
^ SEE SPECIAL PROVISIONS

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0011 FUNDING STP 80% FEDERAL / 20% STATE	
		UNIT	TOTAL QUANTITY
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2
70300100	SHORT TERM PAVEMENT MARKING	FOOT	108
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	36
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2,639
70400100	TEMPORARY CONCRETE BARRIER	FOOT	437.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	400
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	7
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2,627
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	2
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	14
78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	6
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	8
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1,574
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	136
X6310187	TRAFFIC BARRIER TERMINAL, TYPE 6 (MODIFIED)	EACH	1
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	60
Z0013798	CONSTRUCTION LAYOUT	LSUM	1
Z0076600	TRAINEES	Hour	500
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	146
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	Hour	500

^ SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

Δ 0042 TRAINEES



- LEGEND**
- ① EXISTING HMA SURFACE (5")
 - ② EXISTING AGGREGATE BASE COURSE (12")
 - ③ EXISTING HMA SHOULDERS
 - ④ HMA SURFACE COURSE, MIX "D", N70 (1.5")
 - ⑤ HMA BASE COURSE WIDENING, 8 3/4"
 - ⑥ TRAFFIC BARRIER TERMINAL, TYPE 6 AND TYPE 6 (MODIFIED)
 - ⑦ BRIDGE APPROACH PAVEMENT
 - ⑧ STRIP REFLECTIVE CRACK CONTROL
 - ⑨ SUBBASE GRANULAR MATERIAL, TYPE A 12"
 - ⑩ HMA SHOULDERS, 8"
 - ⑪ STEEL PLATE BEAM GUARDRAIL AND TRAFFIC BARRIER TERMINAL TY 1 (SPL) TANGENT

FILE NAME = 080340-sht-tpsections.dgn	USER NAME = #USER#	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = #SCALE#	DRAWN - T.W.K.	REVISED -
HLR ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184-000959	PLOT DATE = 12/14/2016	CHECKED - S.W.M.	REVISED -
		DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL CROSS SECTIONS
CH 12 / GIANT CITY ROAD**

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

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	4
CONTRACT NO. 99577				
ILLINOIS FED. AID PROJECT BR5-919(11)				

PAVEMENT MARKING SCHEDULE														
LOCATION	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING, LINE 4"			PAINT PAVEMENT MARKING LINE 4"			RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	PAVEMENT MARKING REMOVAL - WATER BLASTING		
			SOLID WHITE EDGE LINE	SKIP-DASH YELLOW CENTERLINE	SOLID YELLOW NO PASSING	SOLID WHITE EDGE LINE	SKIP-DASH YELLOW CENTERLINE	SOLID YELLOW NO PASSING						
			70300100	70300150	70300220			78001110					78100100	78100105
FOOT	SQ FT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	SQ FT			
STAGE I														
LT. STA 104+58 TO STA 112+94												204		
LCL. STA 104+58 TO STA 112+15												161		
CL. STA 104+58 TO STA 112+94										8		50		
RT. STA 104+58 TO STA 112+94												279		
STAGE II														
LT. STA 104+58 TO STA 112+94	24	8	836					836				279		
LCL. STA 104+58 TO STA 112+15					757						745	252		
CL. STA 104+58 TO STA 112+94	84	28		210					210			70		
RT. STA 104+58 TO STA 112+94			836					836				279		
SUBTOTAL	108	36	1672	210	757			1672	210	745	8	2	8	1574
TOTAL	108	36		2639				2627	8	2	8		1574	

PERIMETER EROSION BARRIER	
LOCATION	PERIMETER EROSION BARRIER
	28000400
	FOOT
LT. STA 105+80 TO STA 107+95	235
LT. STA 109+40 TO STA 111+50	225
RT. STA 105+80 TO STA 107+95	226
RT. STA 109+40 TO STA 113+50	406
RT. STA 117+50 TO STA 118+30	145
TOTAL	1237
USE	1237

STAGING SCHEDULE								
LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3	IMPACT ATTENUATORS RELOCATE (NON-REDIRECTIVE) TEST LEVEL 3				
					70400100	70400200	70600250	70600350
					FOOT	FOOT	EACH	EACH
STAGE I								
LT. STA 106+25 TO STA 110+85	400		2					
STAGE II								
RT. STA 105+87.50 TO STA 110+85	37.5	400		2				
TOTAL	437.5	400	2	2				

SEEDING SCHEDULE								
LOCATION	MULCH METHOD 2 *	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING *	SEEDING CLASS 2A SPECIAL				
					25100115	25100630	28000250	X2501000
					ACRE	SQ YD	POUND	ACRE
LT. STA 105+80 TO STA 108+50	0.48		48	0.12				
LT. STA 108+50 TO STA 111+50	0.32		32	0.08				
RT. STA 105+80 TO STA 108+50	0.52		52	0.13				
RT. STA 108+50 TO STA 118+50	0.52	115	52	0.13				
TOTAL	1.84	115	184	0.46				
USE	1.75	115	184	0.5				

* 4 APPLICATIONS OF TEMPORARY SEEDING

GUARDRAIL SCHEDULE																		
LOCATION	STEEL PLATE BEAM GUARD RAIL TYPE A, 6 FOOT POSTS	STEEL PLATE BEAM GUARD RAIL TYPE A, 9 FOOT POSTS	TRAFFIC BARRIER TERMINAL TYPE 6	TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	TERMINAL MARKER DIRECT APPLIED	GUARDRAIL REFLECTORS TYPE A	BARRIER WALL REFLECTORS TYPE B	TRAFFIC BARRIER TERMINAL TYPE 6 MODIFIED									
										63000001	63000003	63100085	63100167	63200310	72501000	78200005	78200010	X6310187
										FOOT	FOOT	EACH	EACH	FOOT	EACH	EACH	EACH	EACH
LT. STA 106+93.55 TO STA 107+83.58			1	1	75	1	1	3										
LT. STA 109+52.42 TO STA 110+54.95	12.5		1	1	75	1	2											
RT. STA 106+47.15 TO STA 107+83.58				2	47	2	1	3	1									
RT. STA 109+52.42 TO STA 110+42.45			1	1	75	1	2											
RT. STA 111+50 TO STA 117+93.75		537.5		2	175	2	8											
TOTAL	12.5	537.5	3	7	447	7	14	6	1									

EARTHWORK SUMMARY													
LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	% USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT REQUIRED	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)						
								20200100	20300100				
								CU YD	CU YD			CU YD	CU YD
STA 105+80 TO STA 107+95.08	188		25.00%	100.00%	141	515	-374						
STA 107+95.08 TO STA 190+40.92		500	25.00%	70.00%	263		263						
STA 109+40.92 TO STA 118+30	208		25.00%	100.00%	156	260	-104						
TOTAL	396	500			560	775	-215						

FURNISHED 215 CU.YD.

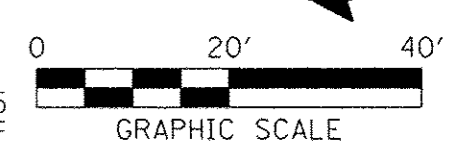
ROADWAY SCHEDULE													
LOCATION	SUBBASE GRANULAR MATERIAL TYPE A, 12"	HOT-MIX ASPHALT BASE COURSE WIDENING 8 1/4"	AGGREGATE SURFACE COURSE TYPE B 6"	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT	TEMPORARY RAMP	HOT-MIX ASPHALT SURFACE COURSE MIX "D", N70	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL	STRIP REFLECTIVE CRACK CONTROL TREATMENT	HOT-MIX ASPHALT SHOULDERS 8"
	31100910	35600709	40200800	40600275	40600290	40600982	40600990	40603340	42000070	44000100	44004250	44300200	48203029
	SQ YD	SQ YD	TON	POUND	POUND	SQ YD	SQ YD	TON	SQ YD	SQ YD	SQ YD	FOOT	SQ YD
STAGE 1													
LT. STA 105+80 TO STA 108+13.21	190	176		426	54		18		22	70	104		49
LT. STA 109+46.79 TO STA 111+50	152	139		341	48		18		22	40	90		57
RT. STA 106+60 TO STA 108+13.21	63	51		141	14						68		
RT. STA 109+46.79 TO STA 110+70	50	41		114	11						79		
STAGE 2													
LT. STA 105+80 TO STA 107+66.08					56	67	12	12			27	56	
LT. STA 109+69.92 TO STA 111+25			16		140	53	12	35				145	
RT. STA 105+80 TO STA 107+66.08	122			328	87	47	19	8	22	89		56	206
RT. STA 109+69.92 TO STA 111+93	99		13	222	106	40	16	24	22	52		145	158
RT. STA 117+44 TO STA 118+30													27
ENTRANCES													
LT. STA 111+00								11					
RT. STA 111+00								9					
TOTAL	676	407	29	1572	516	207	95	99	88	251	368	402	497

PETER PRINEAS
NW/4, SEC 35, T. 9 S., R. 1 W., 3RD P.M.
15-35-100-011

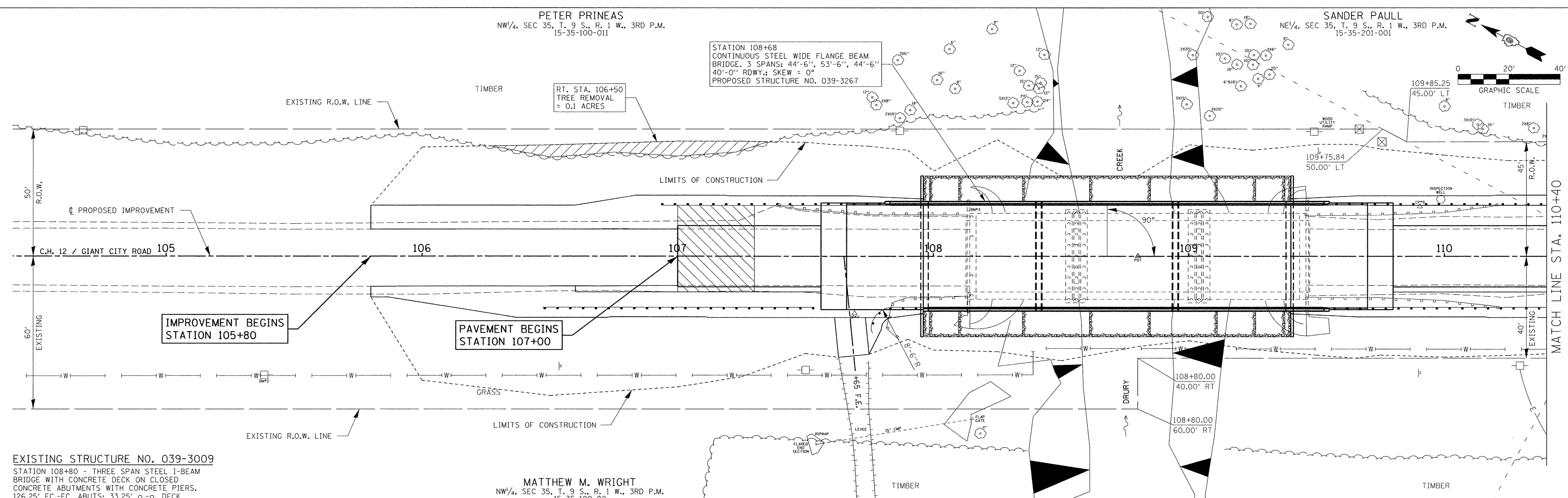
SANDER PAULL
NE/4, SEC 35, T. 9 S., R. 1 W., 3RD P.M.
15-35-201-001

STATION 108+68
CONTINUOUS STEEL WIDE FLANGE BEAM
BRIDGE, 3 SPANS: 44'-6", 53'-6", 44'-6"
40'-0" RDWY.; SKEW = 0°
PROPOSED STRUCTURE NO. 039-3267

RT. STA. 106+50
TREE REMOVAL
= 0.1 ACRES



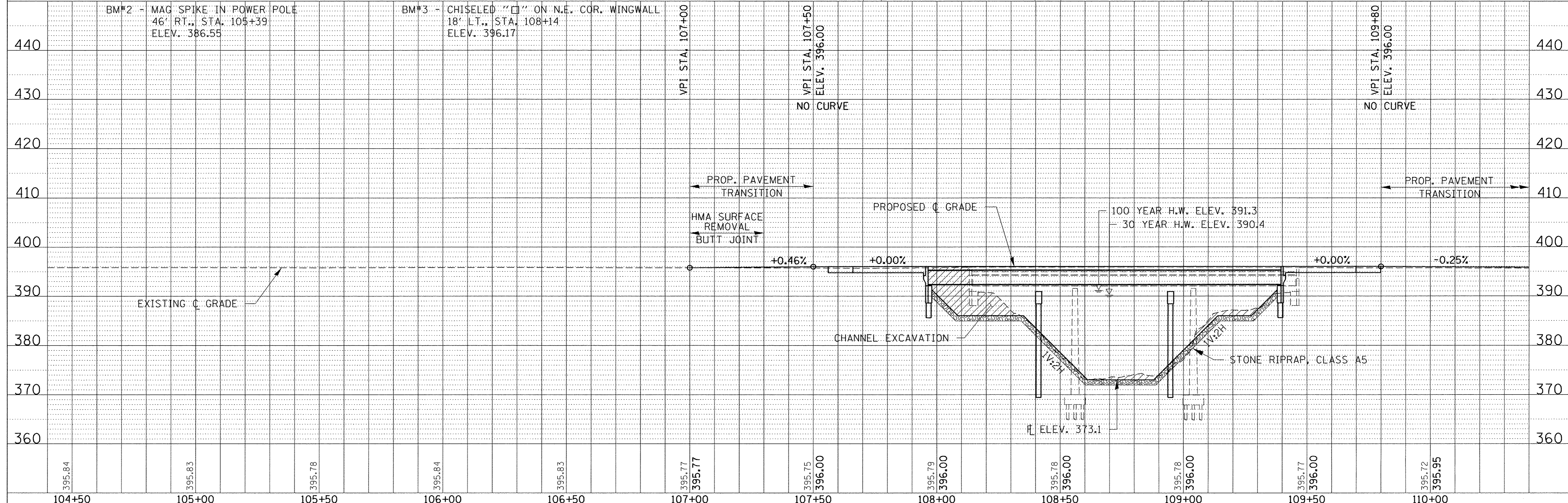
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REVISIONS	
NO.	
PLAN	
NO.	
NOTE BOOK	
NO.	
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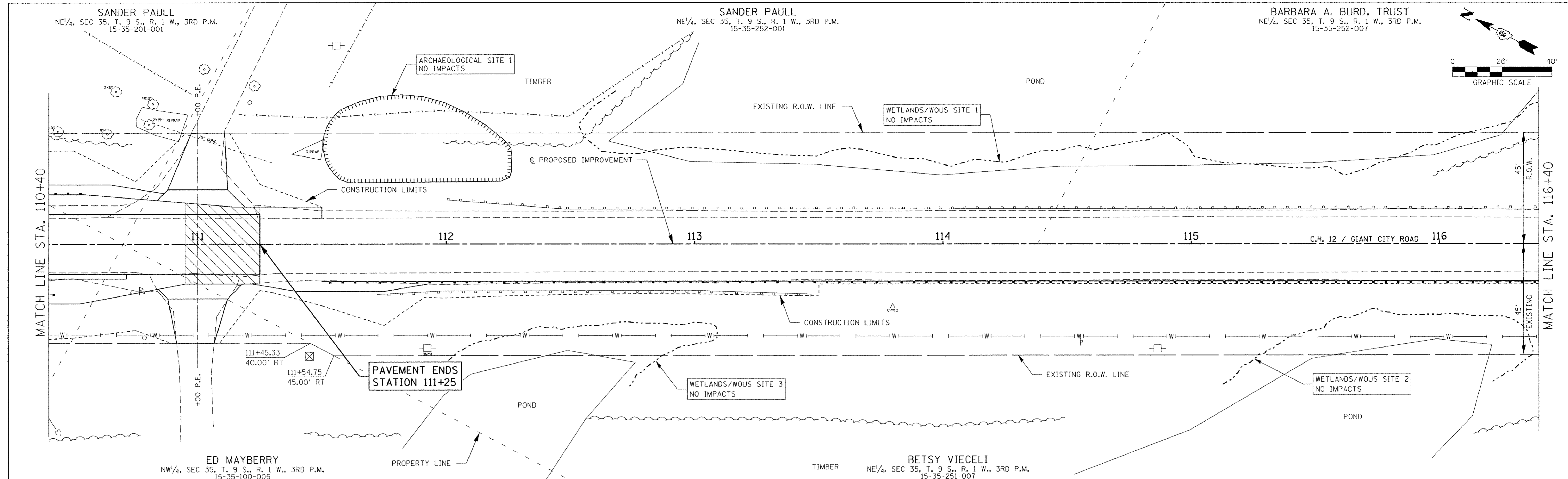
EXISTING STRUCTURE NO. 039-3009
STATION 108+80 - THREE SPAN STEEL I-BEAM
BRIDGE WITH CONCRETE DECK ON CLOSED
CONCRETE ABUTMENTS WITH CONCRETE PIERS.
126.25' FC.-FC. ABUTS; 33.25' o.-o. DECK

MATTHEW M. WRIGHT
NW/4, SEC 35, T. 9 S., R. 1 W., 3RD P.M.
15-35-100-02

DATE	
BY	
REVISIONS	
NO.	
PROFILE	
NO.	
NOTE BOOK	
NO.	
FILE NAME	
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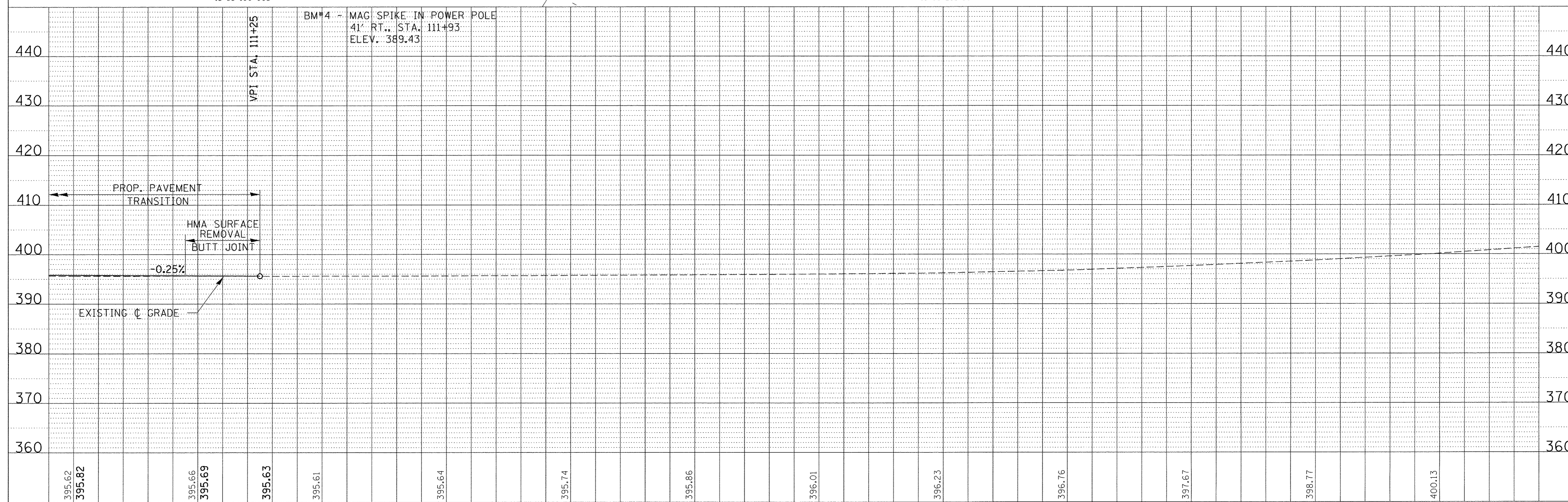


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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.0000959	PLOT SCALE = *SCALE*	DRAWN - T.W.K.	REVISED -			919	07-00153-00-BR	JACKSON	70	7	
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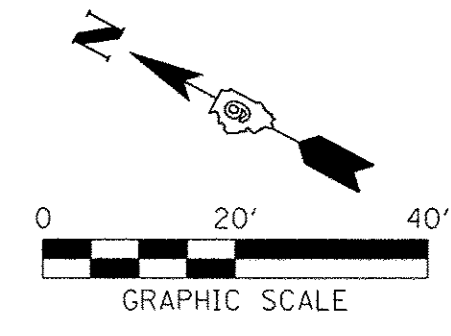
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BY	
DESIGNED	
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PROFILE	DATE
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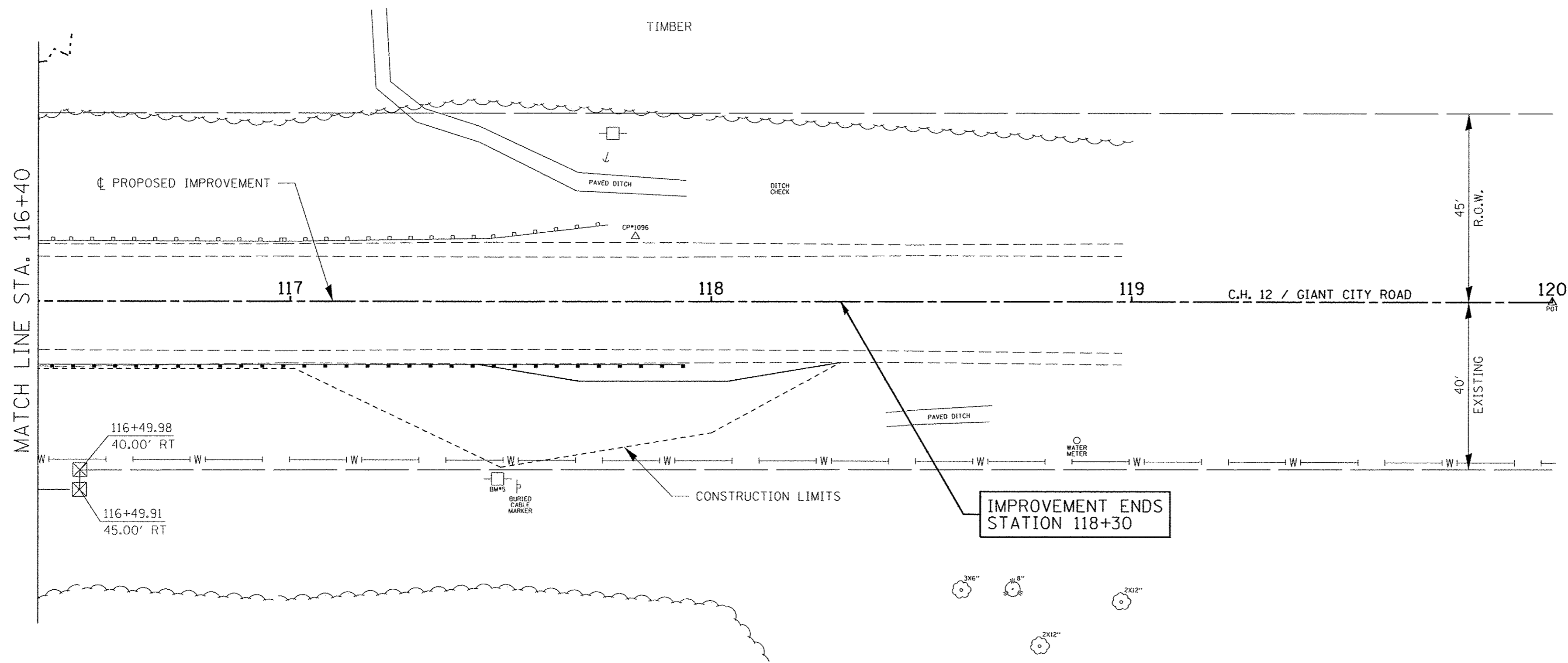


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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = #SCALE#	DRAWN - T.W.K.	REVISED -			919	07-00153-00-BR	JACKSON	70	8
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		DATE = 12/14/16	REVISED -			ILLINOIS FED. AID PROJECT BRS-919(11)				
				SCALE: H20:V5	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.			

BARBARA A. BURD, TRUST
 NE 1/4, SEC 35, T. 9 S., R. 1 W., 3RD P.M.
 15-35-252-007



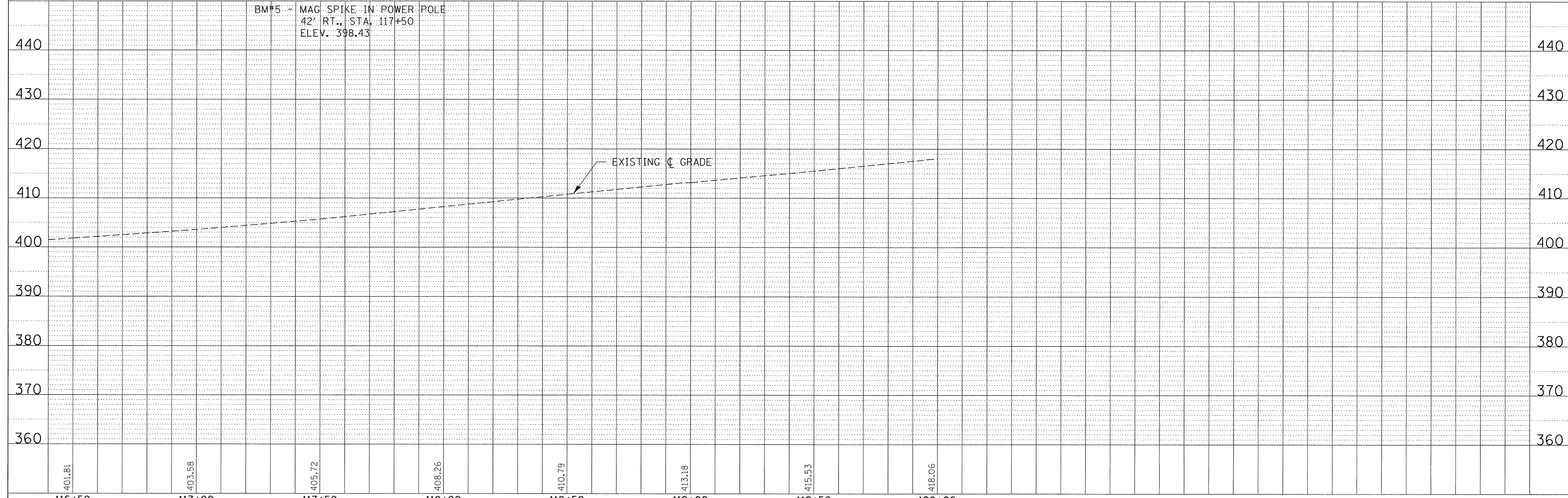
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NOTE BOOK NO.	ALIGNED		
	CHECKED		
	BY		
	FILE NAME		



TIMBER
 BETSY VIECELI
 NE 1/4, SEC 35, T. 9 S., R. 1 W., 3RD P.M.
 15-35-251-007

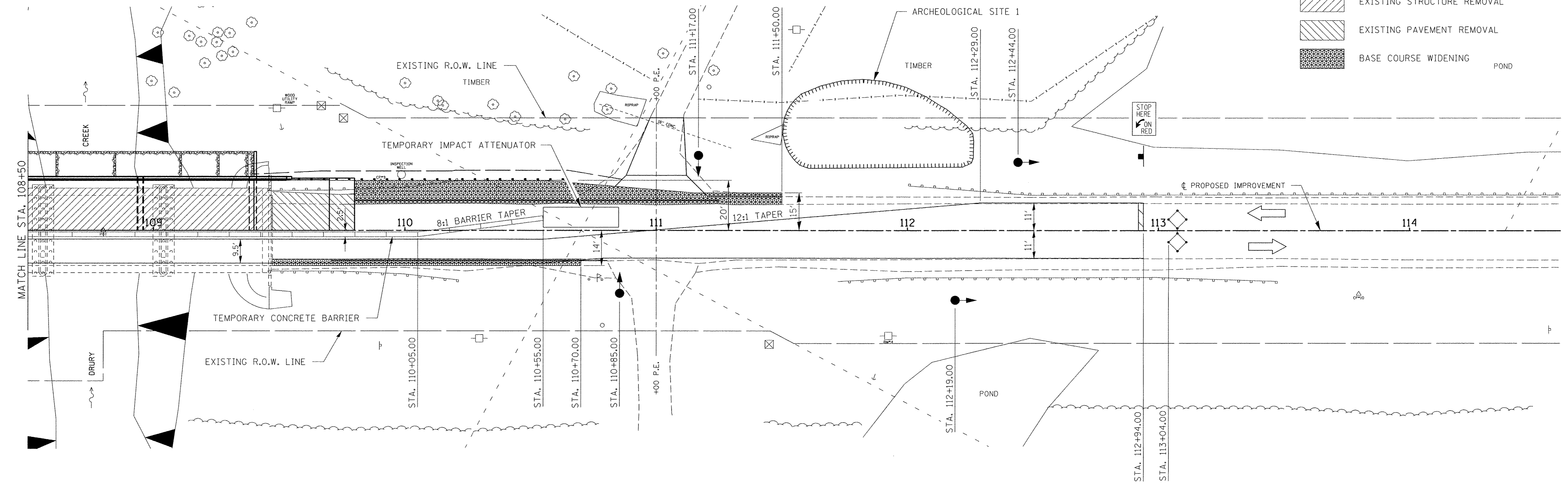
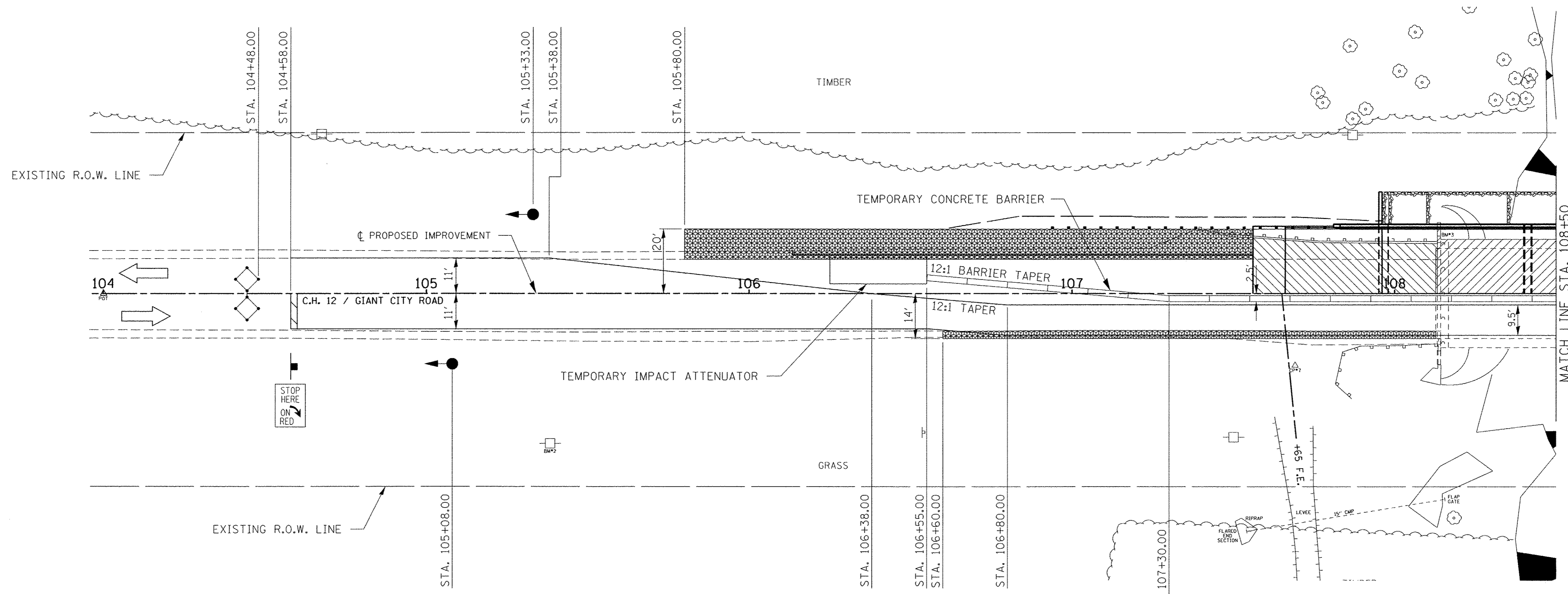
BM#5 - MAG SPIKE IN POWER POLE
 42' RT., STA. 117+50
 ELEV. 398.43

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	B.M. NOTED		
	STRUCTURE NOTATIONS CHECKED		



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		DATE - 12/14/16	REVISED -			ILLINOIS FED. AID PROJECT BRS-919(11)					

SCALE: H20:V5 SHEET NO. 3 OF 3 SHEETS STA. TO STA.



LEGEND

	EXISTING STRUCTURE REMOVAL
	EXISTING PAVEMENT REMOVAL
	BASE COURSE WIDENING
	POND

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HAMPTON, LENZINI AND RENWICK, INC.
 3065 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 15 / FE / SE COMP. 184-000559

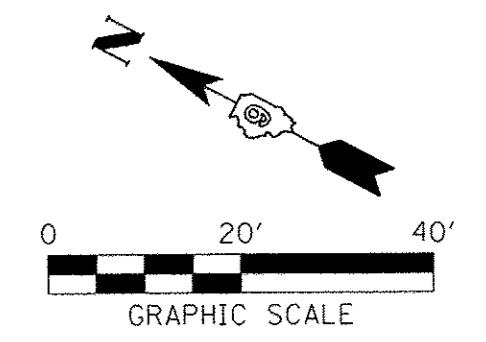
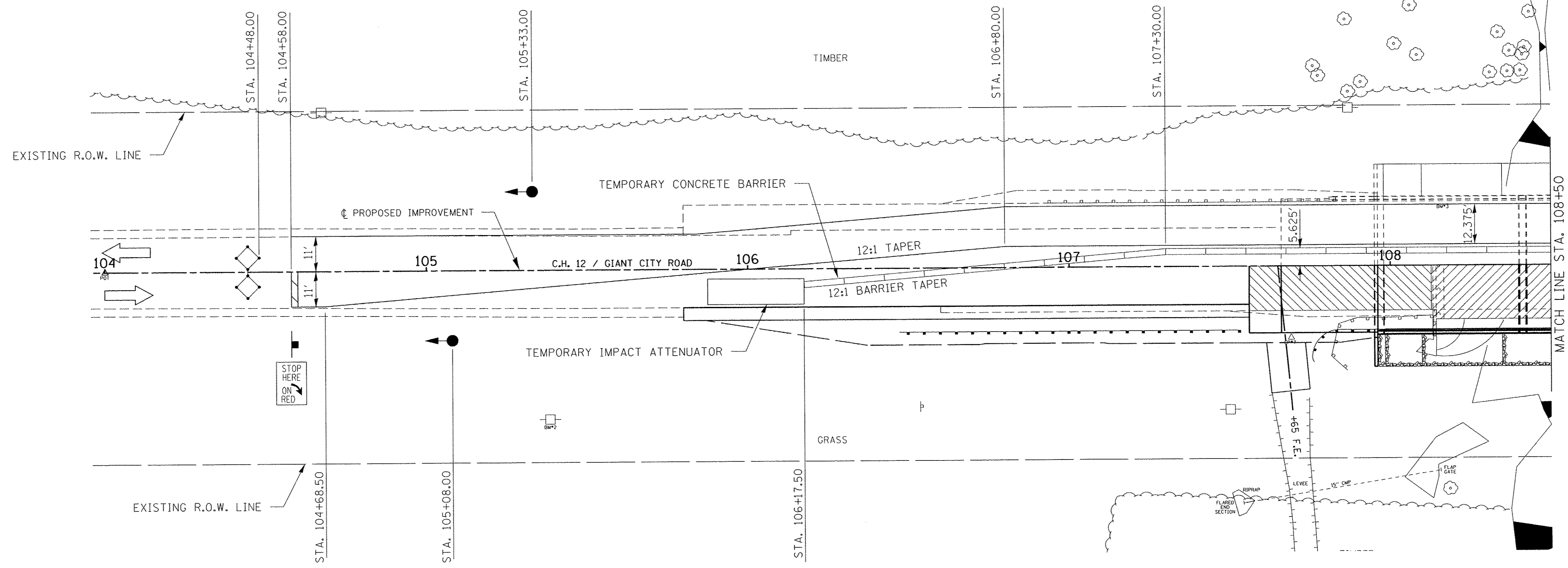
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DRAWN - T.W.K.	REVISED -
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DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
 JACKSON COUNTY HIGHWAY DEPARTMENT**

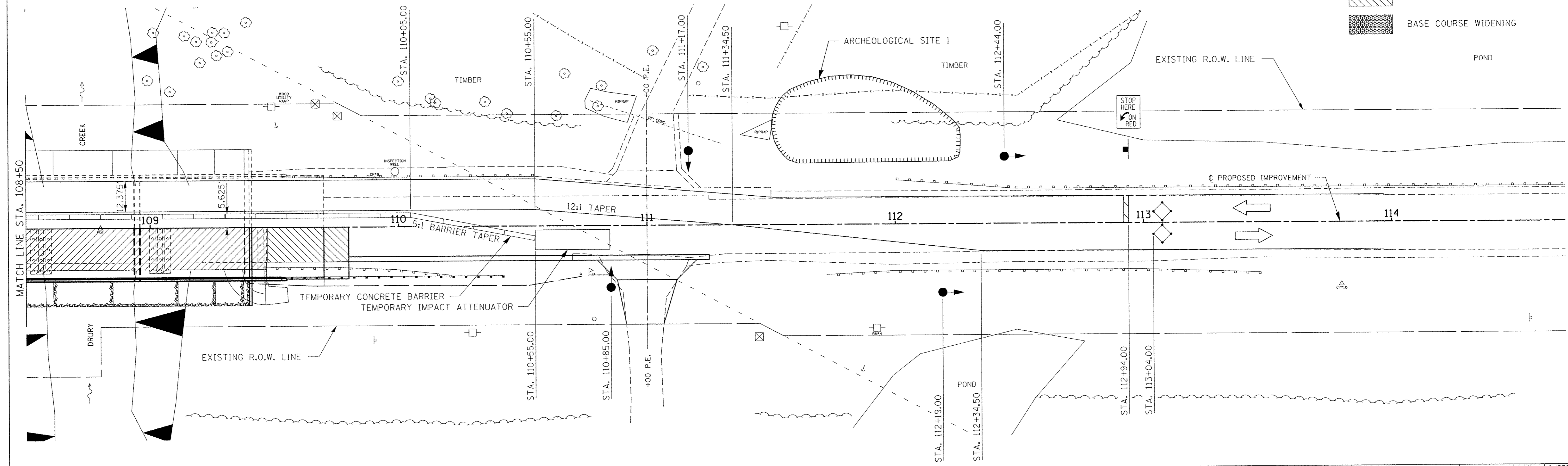
**STAGE 1 PLAN VIEW
 CH 12 / GIANT CITY ROAD**

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

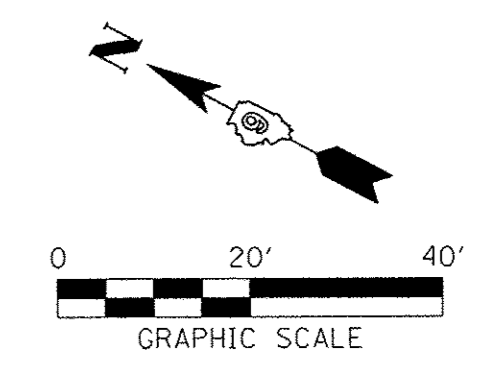
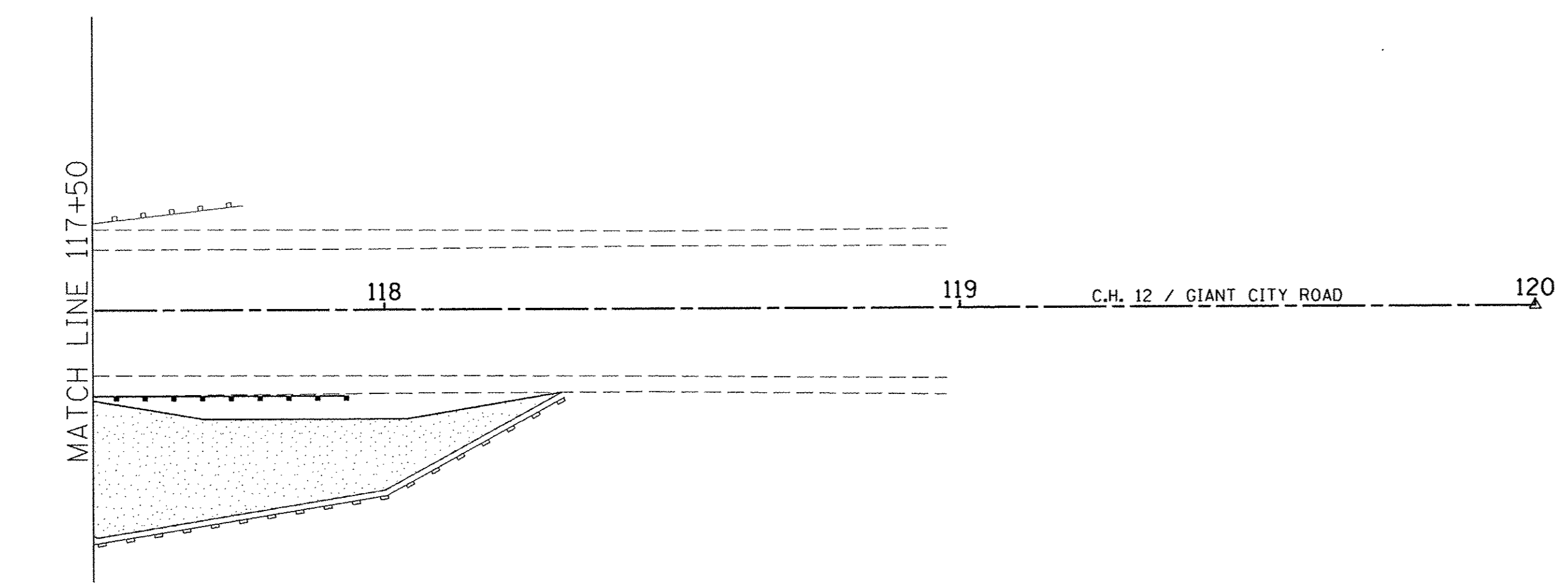
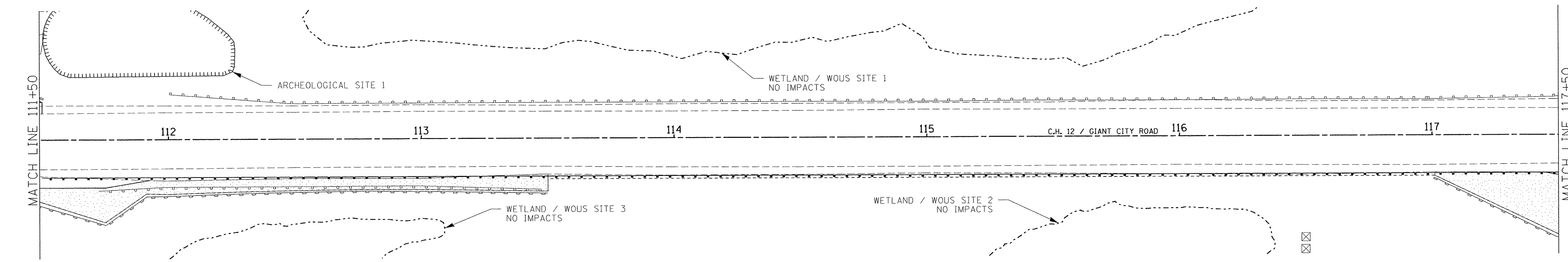
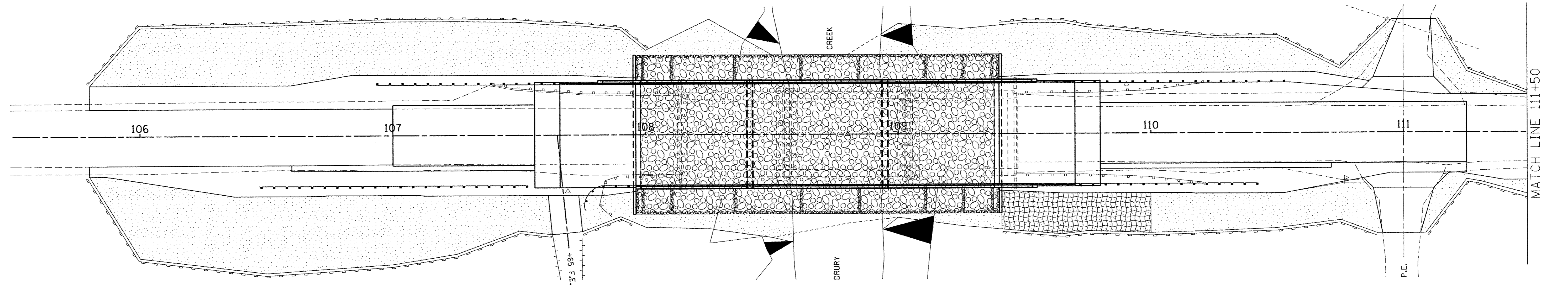
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919	07-00153-00-BR	JACKSON	70	10
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT BRS-919(111)	
CONTRACT NO. 99577				



- LEGEND**
- EXISTING STRUCTURE REMOVAL
 - EXISTING PAVEMENT REMOVAL
 - BASE COURSE WIDENING



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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62763 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = #SCALE#	DRAWN - T.W.K.	REVISED -		SCALE:	SHEET NO. 2 OF 2 SHEETS	919	07-00153-00-BR	JACKSON	70	11
PLOT DATE = 12/14/2016	DATE - 12/14/16	CHECKED - S.W.M.	REVISED -		STA.	TO STA.	CONTRACT NO. 99577				
			REVISED -		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT BRS-919(111)					



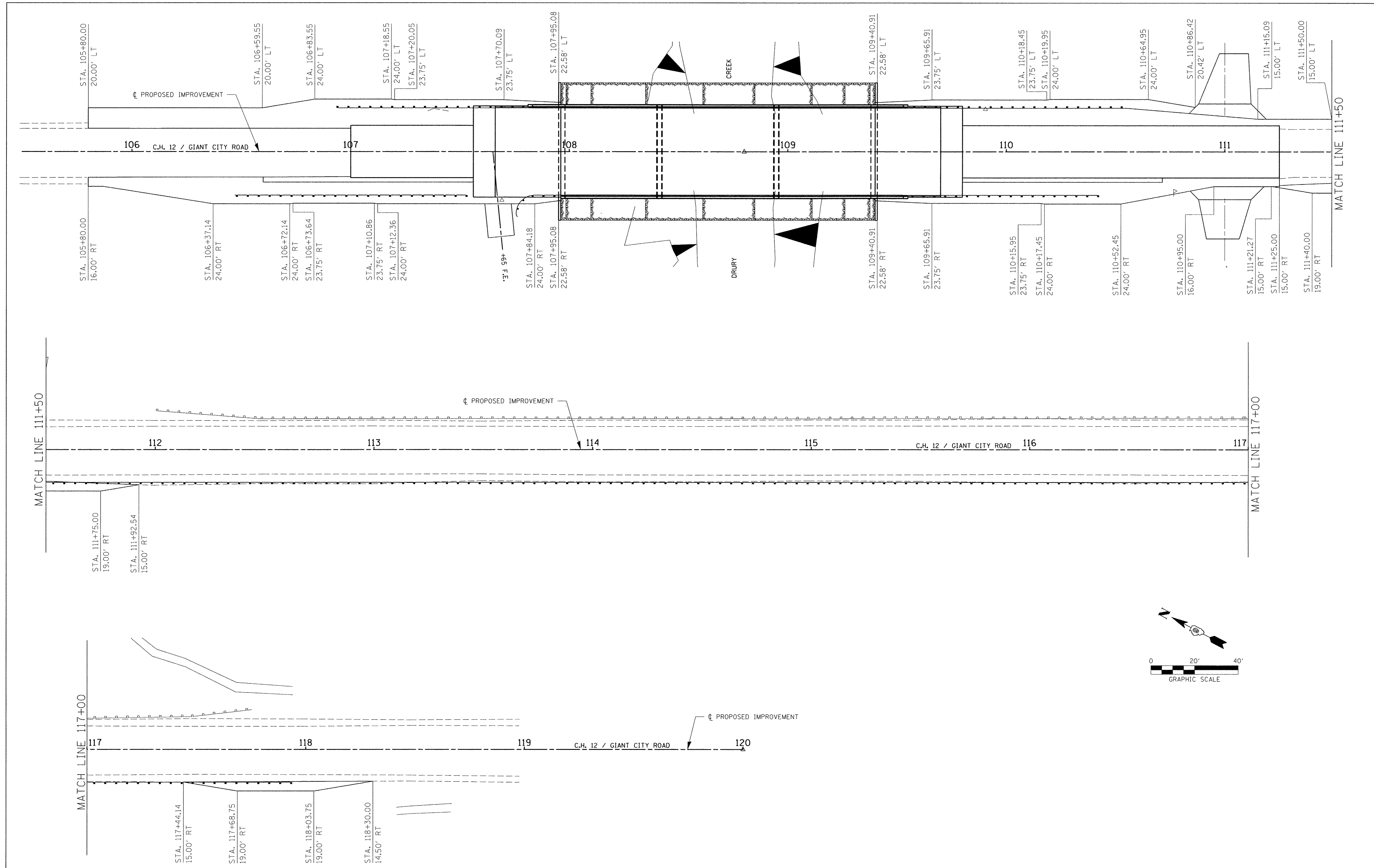
- LEGEND**
- PERIMETER EROSION BARRIER
 - EROSION CONTROL BLANKET AND CLASS 2 SEEDING
 - STONE RIPRAP, CLASS A5
 - CLASS 2 SEEDING

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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009959	PLOT SCALE = #SCALE#	DRAWN - T.W.K.	REVISED -
	PLOT DATE = 12/14/2016	CHECKED - S.W.M.	REVISED -
		DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
JACKSON COUNTY HIGHWAY DEPARTMENT**

EROSION AND SEDIMENT CONTROL PLAN CH 12 / GIANT CITY ROAD			
SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	12
CONTRACT NO. 99577				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT BR5-919(111)			

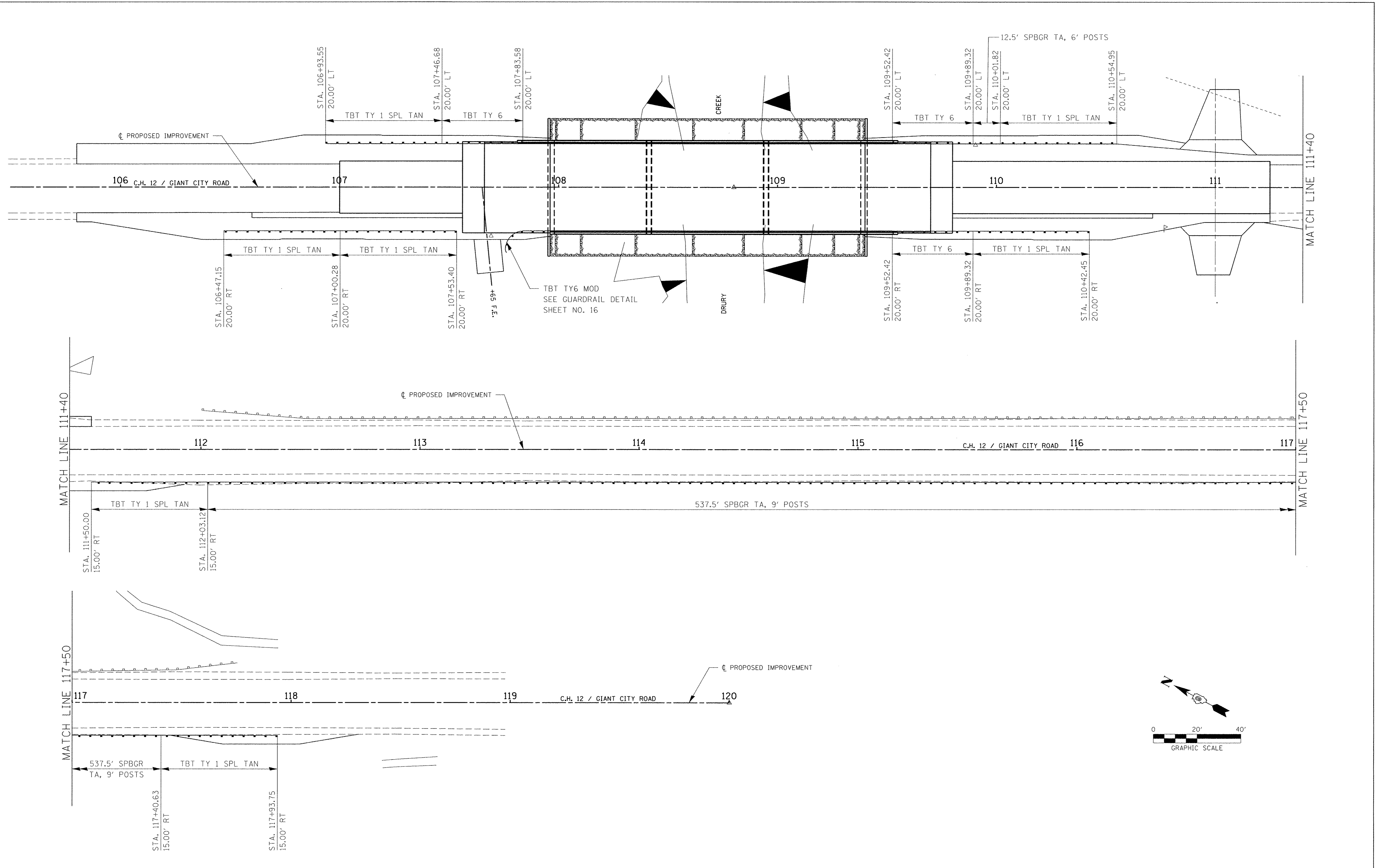


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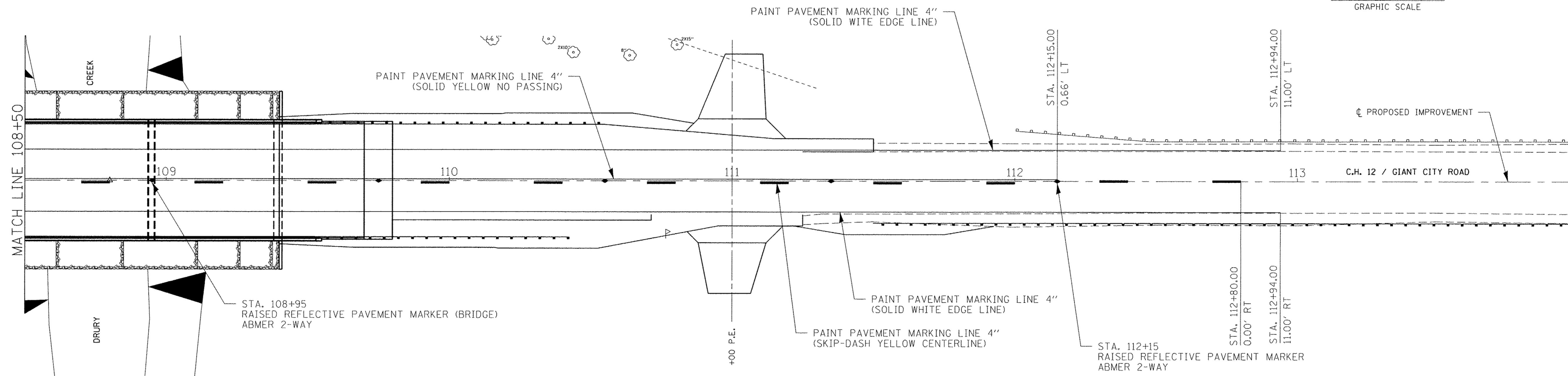
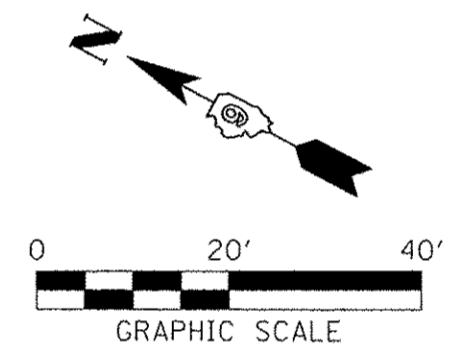
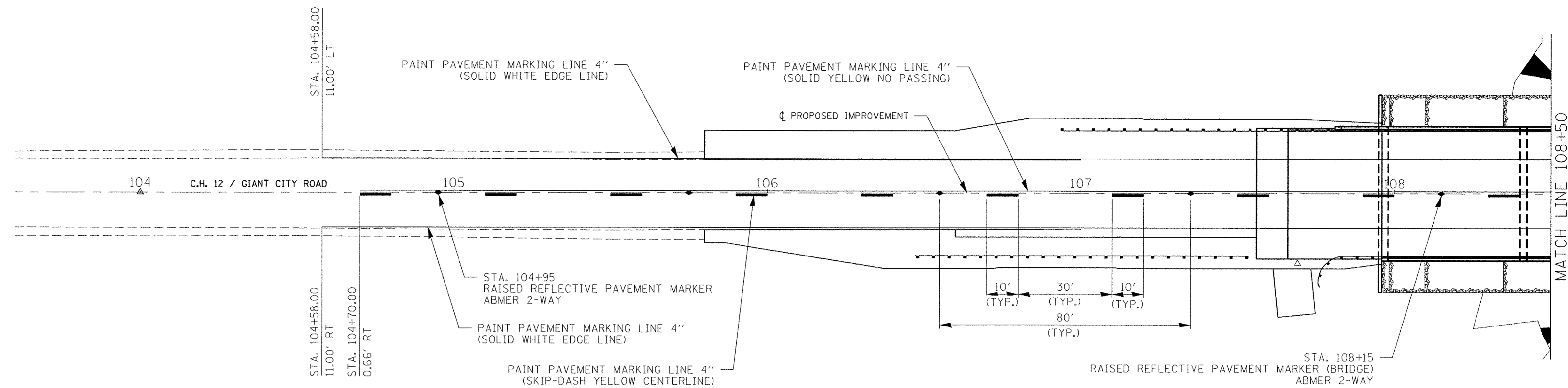
**STATE OF ILLINOIS
JACKSON COUNTY HIGHWAY DEPARTMENT**

SHOULDER PLAN CH 12 / GIANT CITY ROAD	
SCALE:	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

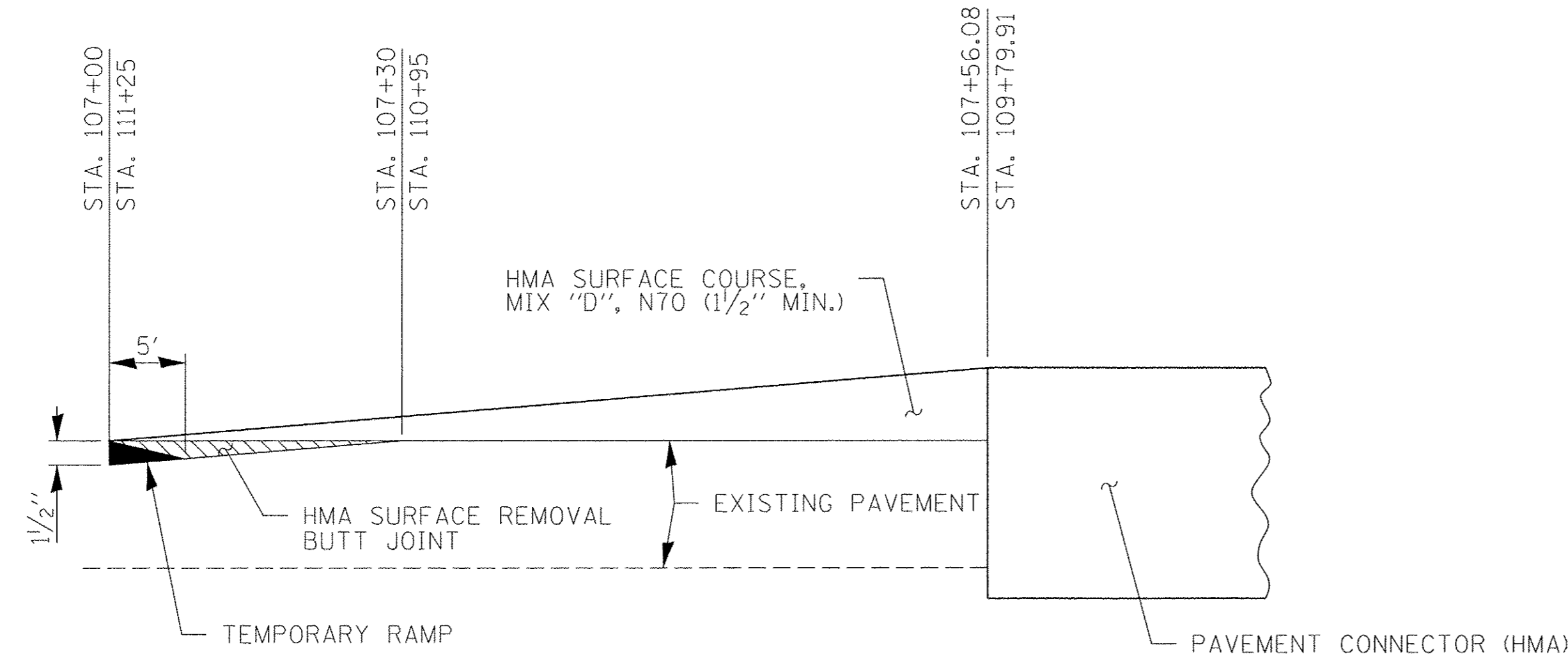
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919	07-00153-00-BR	JACKSON	70	13
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT BRS-9191111		
		CONTRACT NO. 99577		



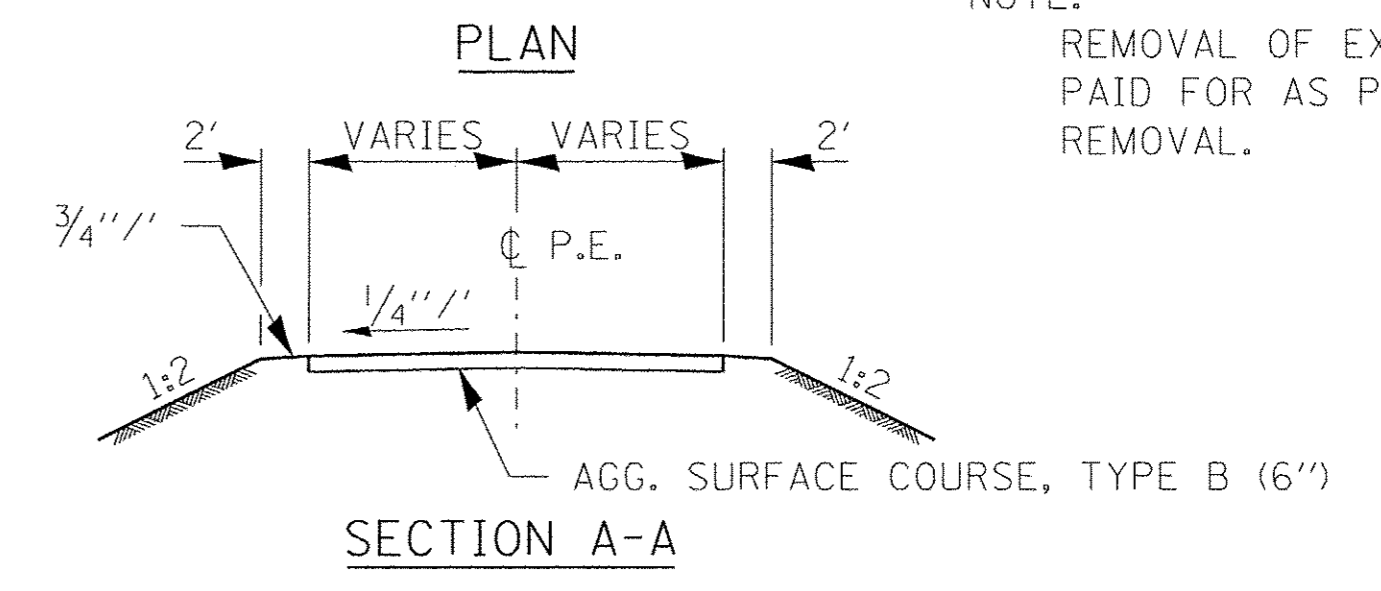
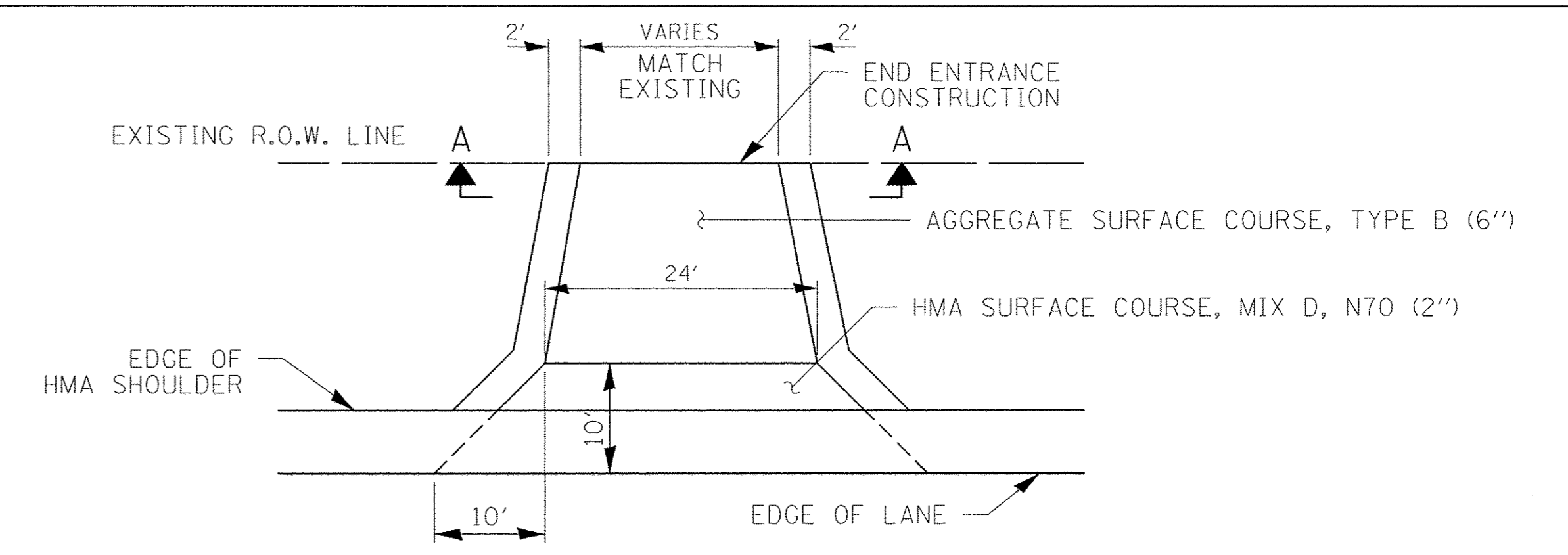
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HAMPTON, LENZINI AND RENWICK, INC. 3045 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM 13 / P.E. / S.E. CORP. 184.000959	PLOT SCALE = #SCALE#	DRAWN - T.W.K.	REVISED -			919	07-00153-00-BR	JACKSON	70	14	
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HAMPTON, LENZINI AND RENWICK, INC. 3065 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184-000959	PLOT SCALE = #SCALE#	DRAWN - T.W.K.	REVISED -			919	07-00153-00-BR	JACKSON	70	15	
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					SCALE:	SHEET NO. 1 OF 1 SHEETS		STA. TO STA.			

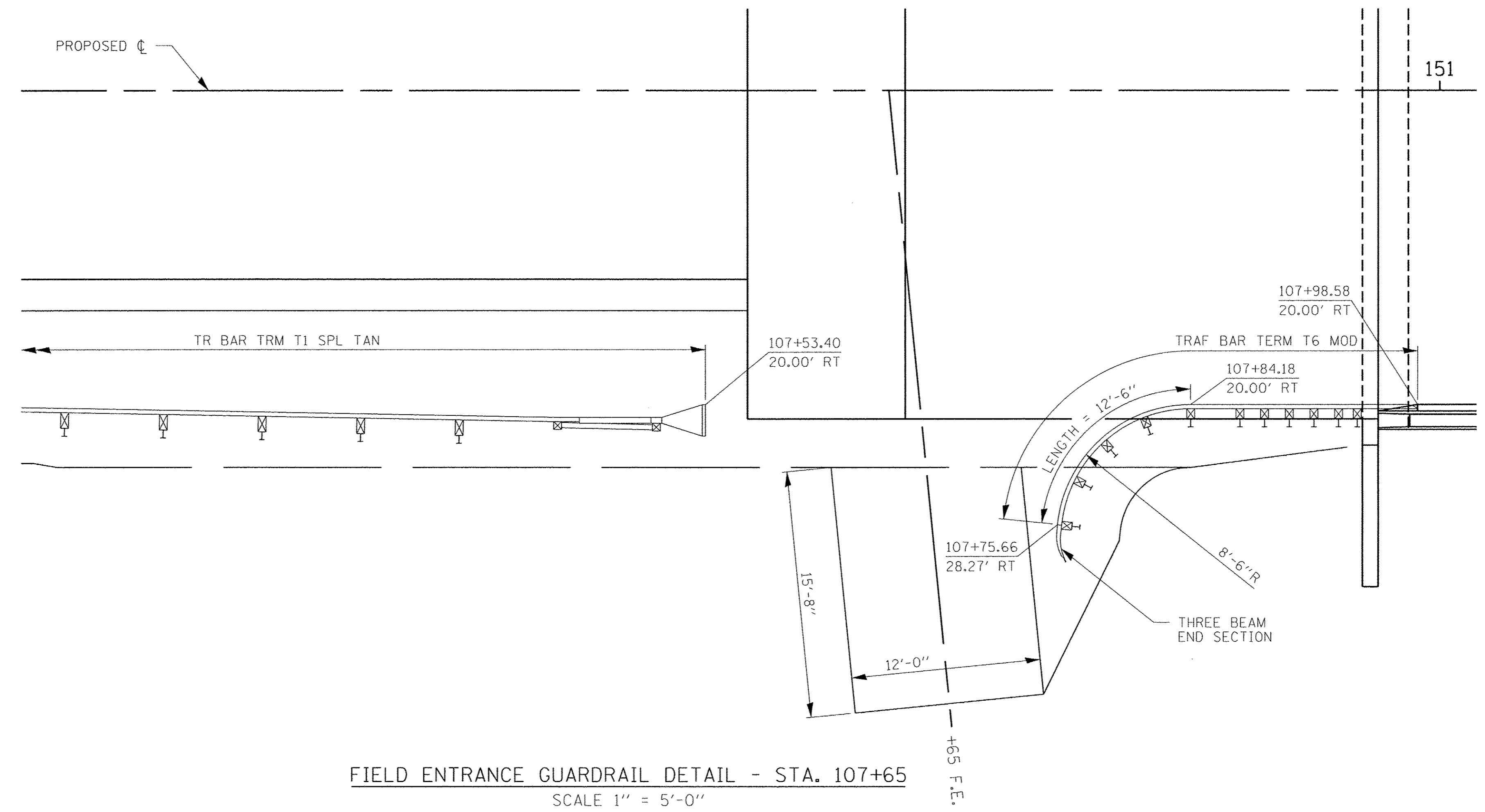


BUTT JOINT DETAIL
NO SCALE



PRIVATE ENTRANCE DETAIL
NO SCALE
RT. STA. 111+00
LT. STA. 111+00

NOTE:
REMOVAL OF EXISTING HMA APRONS
PAID FOR AS PAVED SHOULDER
REMOVAL.

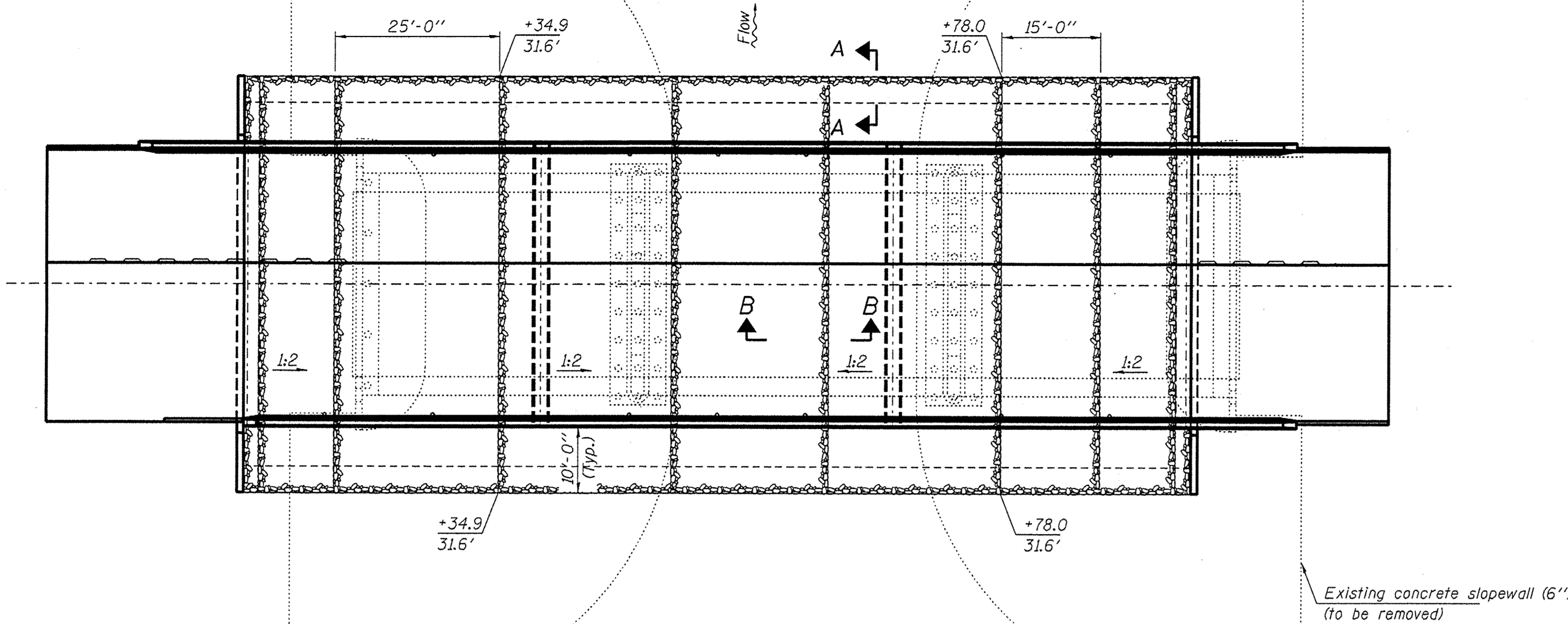


FIELD ENTRANCE GUARDRAIL DETAIL - STA. 107+65
SCALE 1" = 5'-0"

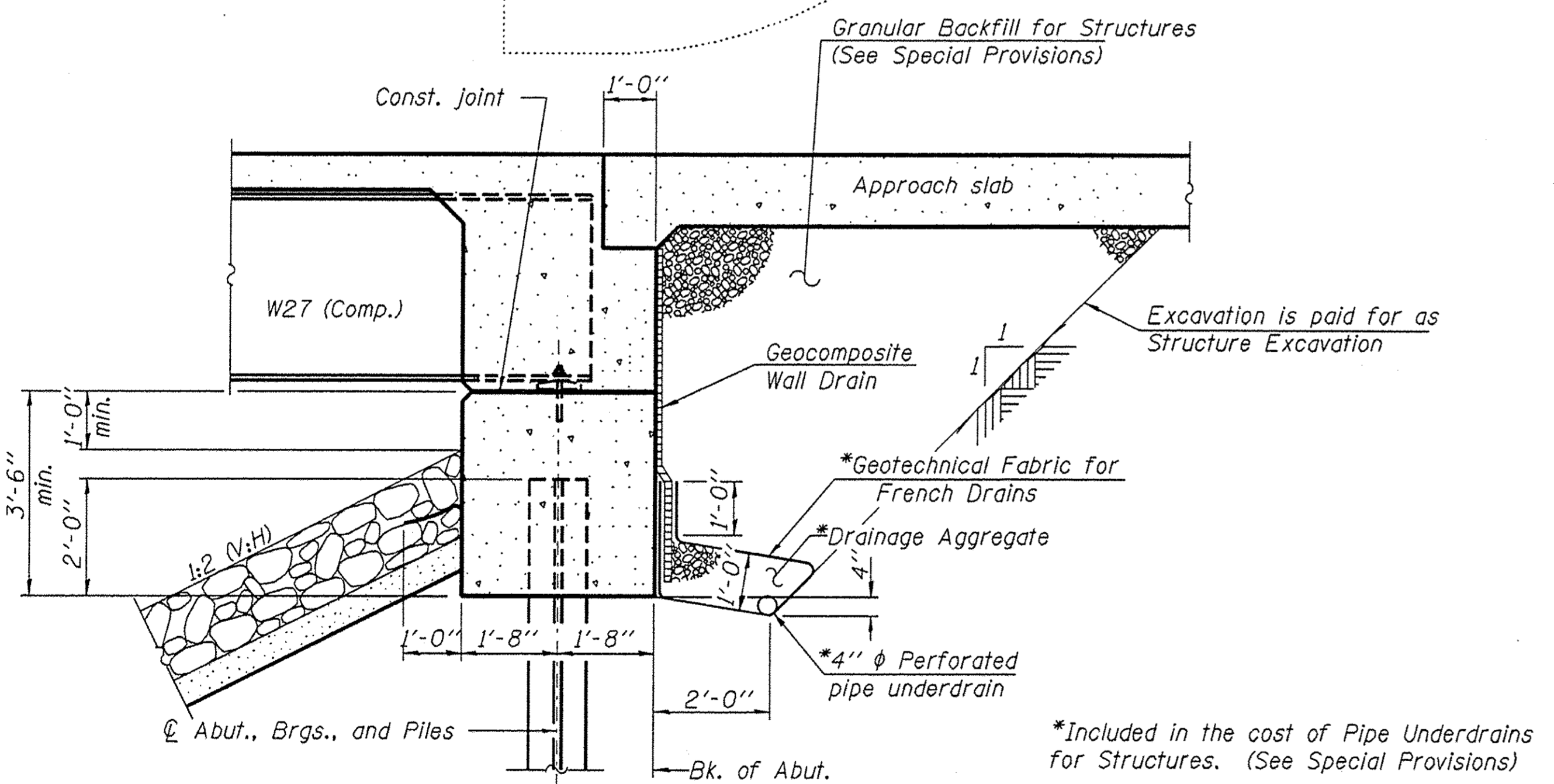
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HAMPTON, LENZINI AND RENWICK, INC. 3055 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184.000059	PLOT SCALE = #SCALE#	DRAWN - T.W.K.	REVISED -					519	07-00153-00-BR	JACKSON	70	16
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		DATE - 12/14/16	REVISED -		ILLINOIS FED. AID PROJECT BRS-919(111)							

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in painted areas and ASTM A325 Type 3 in unpainted areas. Bolts 1/2"φ, holes 5/8"φ, unless otherwise noted.
 Calculated weight of Structural Steel = 114,280 lbs.
 No field welding is permitted except as specified in the contract documents.
 Reinforcement bars and bar splicers designated (E) shall be epoxy coated.
 Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 18 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
 Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 Slip-Forming of the parapets is not allowed.
 All structural steel shall be AASHTO M 270 Grade 50W.
 Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

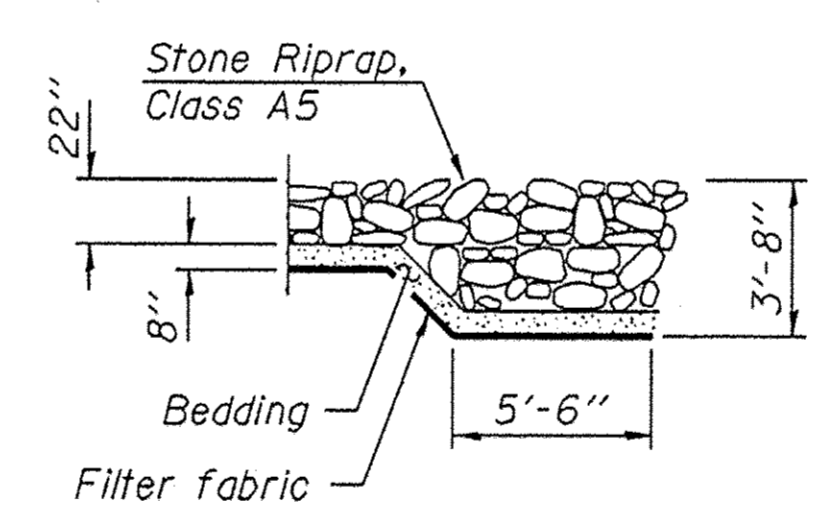


RIPRAP LAYOUT

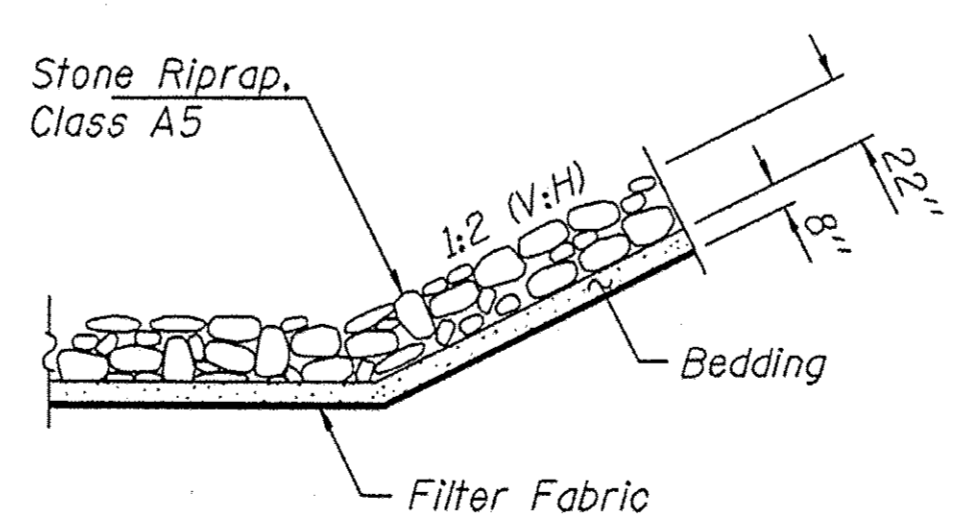


SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

Note:
 All drainage system components shall extend to 2'-0" from 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).



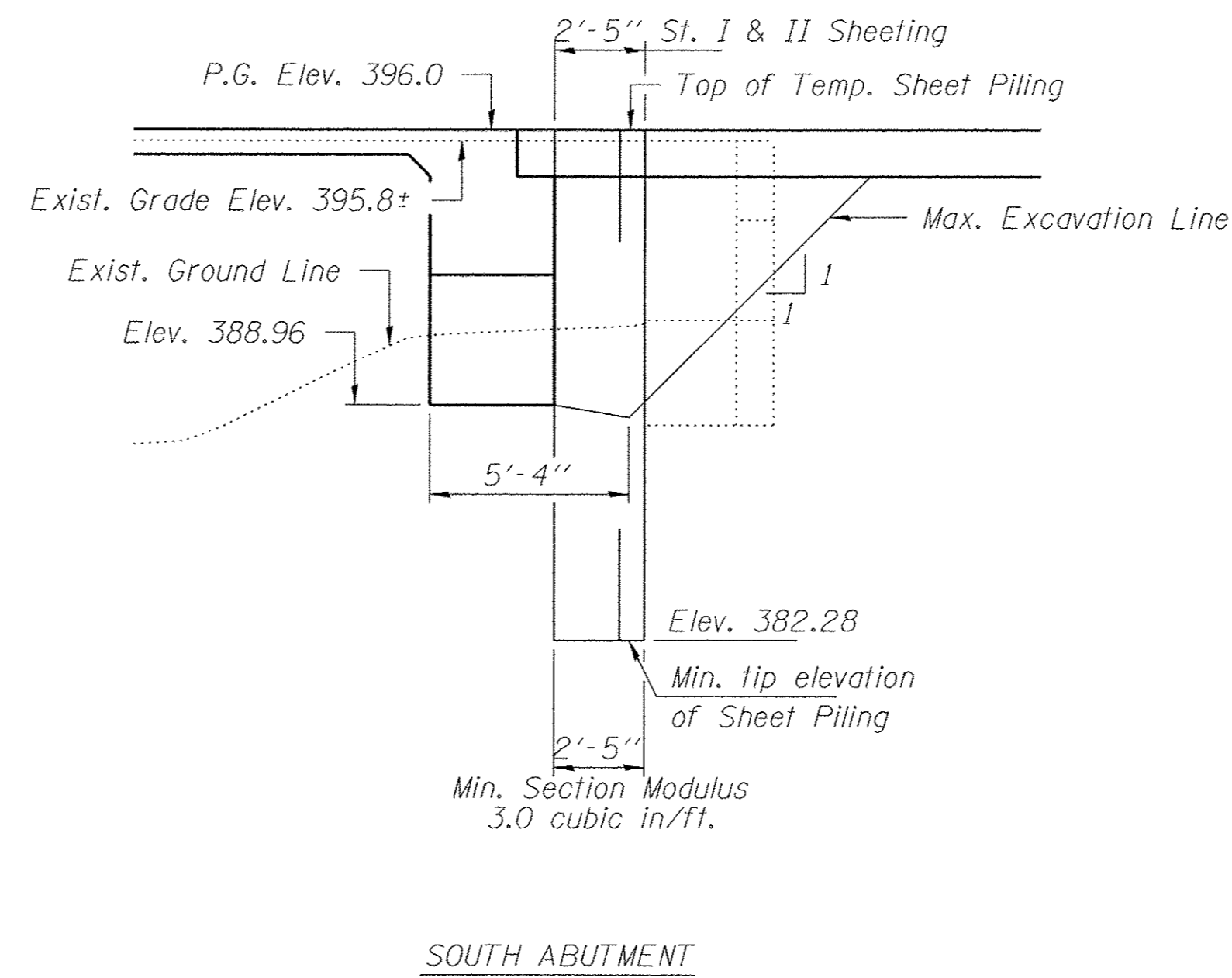
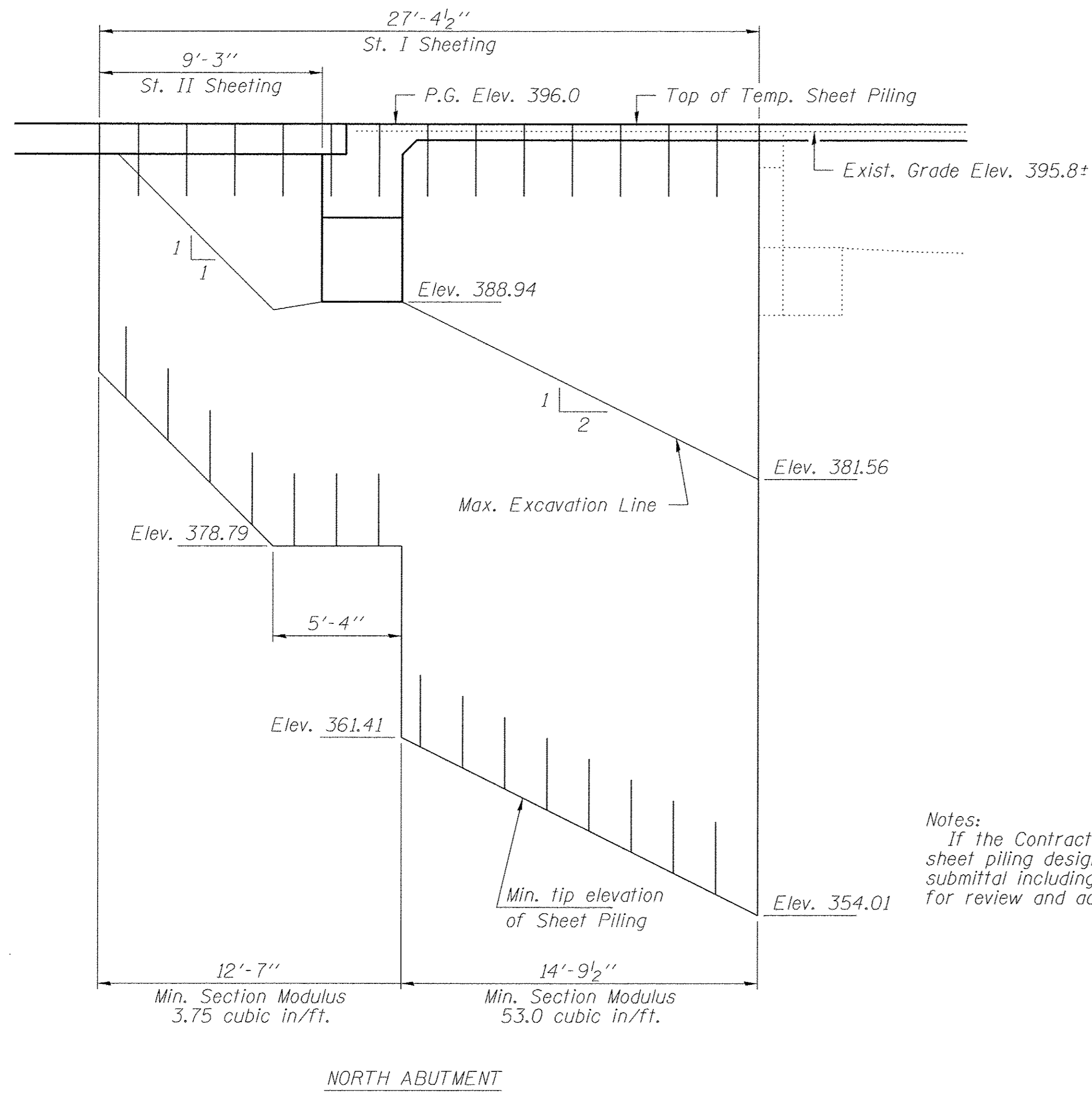
SECTION A-A



SECTION B-B

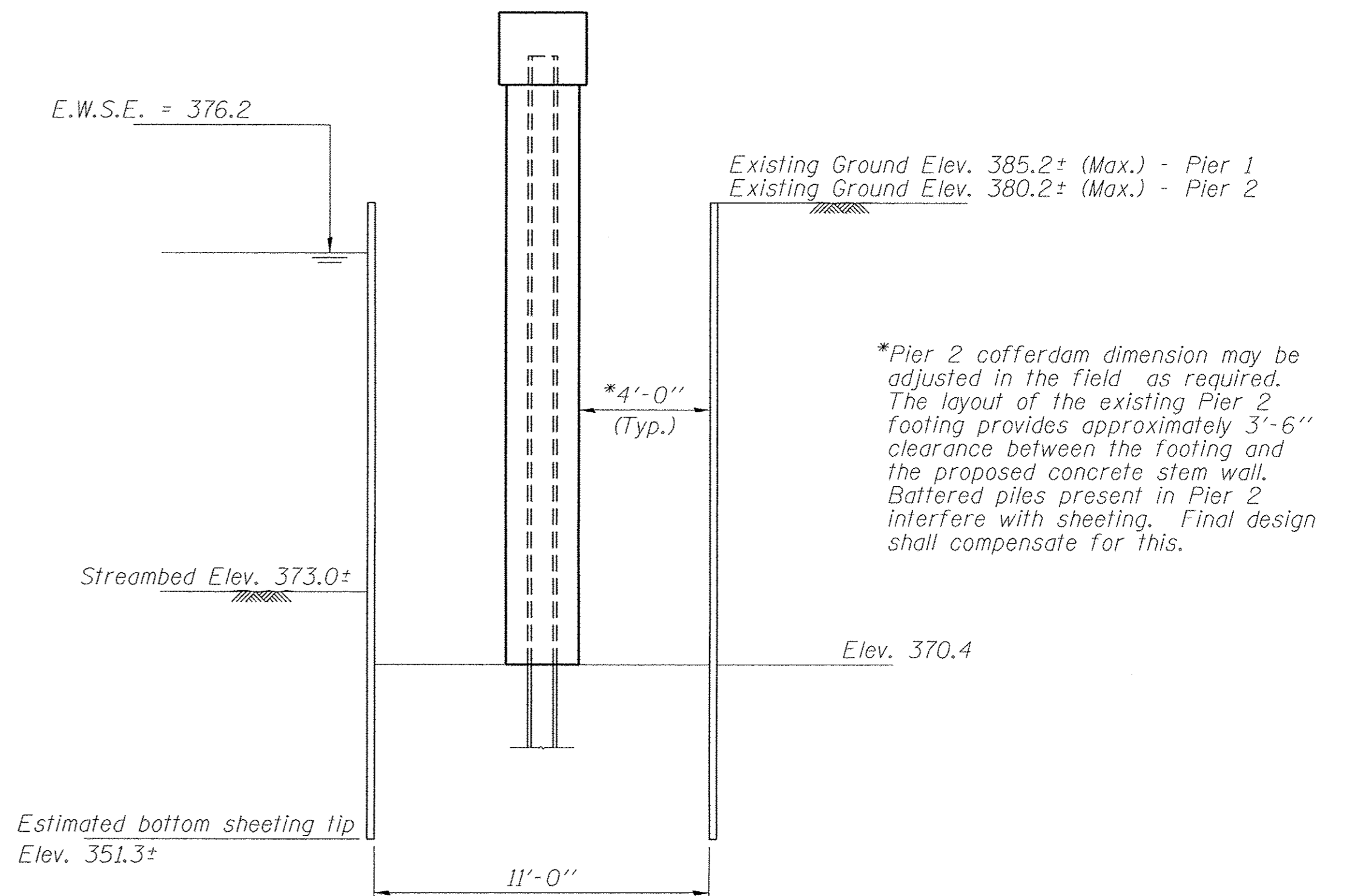
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			500
Stone Riprap, Class A5	Ton			1,110
Filter Fabric	Sq. Yd.			1,100
Removal of Existing Structures	Each			1
Slope Wall Removal	Sq. Yd.			1,154
Structure Excavation	Cu. Yd.			304
Cofferdam Excavation	Cu. Yd.			513
Cofferdam (Type 1) (Location-1)	Each			1
Cofferdam (Type 1) (Location-2)	Each			1
Floor Drains	Each	14		14
Concrete Structures	Cu. Yd.		287.8	287.8
Concrete Superstructure	Cu. Yd.	193.3		193.3
Bridge Deck Grooving	Sq. Yd.	861		861
Protective Coat	Sq. Yd.	1,056		1,056
Concrete Superstructure (Approach Slab)	Cu. Yd.	117.7		117.7
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	3,885		3,885
Reinforcement Bars, Epoxy Coated	Pound	101,720	20,890	122,610
Bar Splicers	Each	679	228	907
Furnishing Steel Piles HP14x117	Foot		1,020	1,020
Driving Piles	Foot		1,020	1,020
Test Pile Steel HP14x117	Each		4	4
Pile Shoes	Each		28	28
Name Plates	Each		1	1
Anchor Bolts, 5/8"	Each		28	28
Anchor Bolts, 1"	Each		28	28
Temporary Sheet Piling	Sq. Ft.			791
Geocomposite Wall Drain	Sq. Yd.			68
Granular Backfill for Structures	Cu. Yd.			136
Pipe Underdrains for Structures 4"	Foot			146



Notes:
 If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

TEMPORARY SHEET PILING AT ABUTMENTS



COFFERDAM DETAIL
 (For information only)

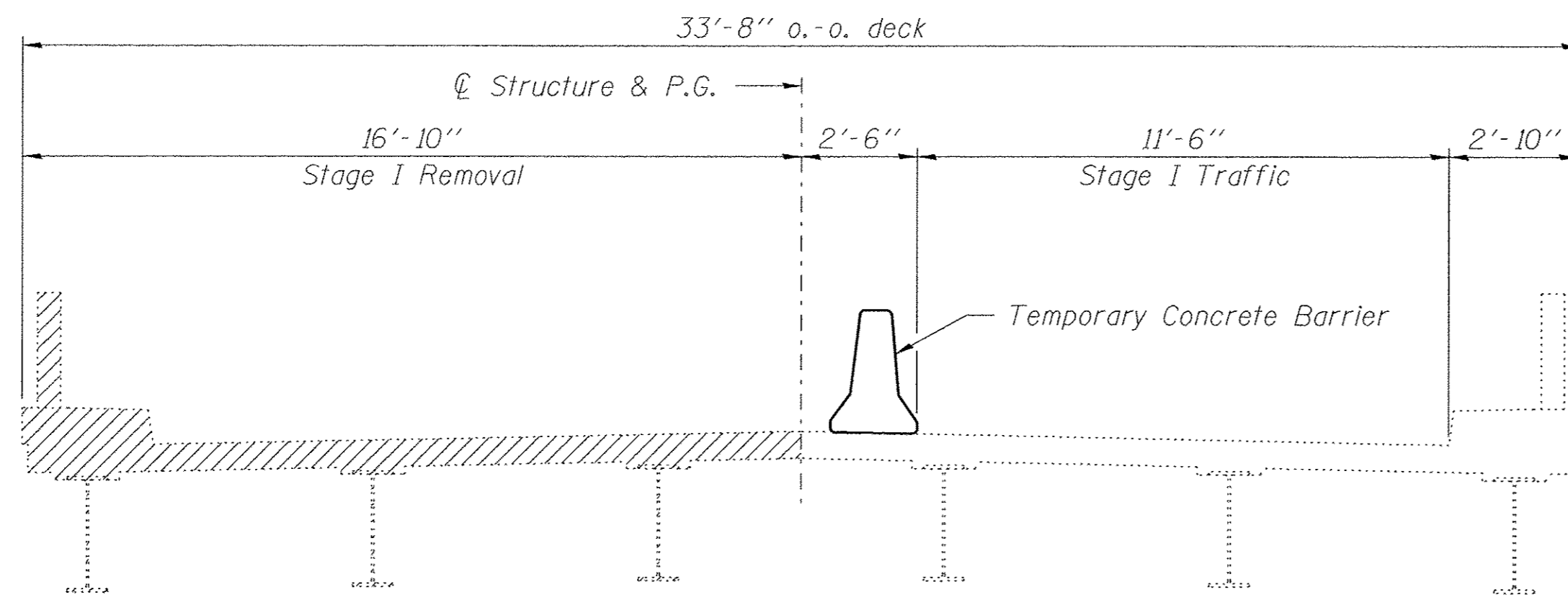
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		CHECKED - A.E.U.	REVISED -

STATE OF ILLINOIS
JACKSON COUNTY HIGHWAY DEPARTMENT

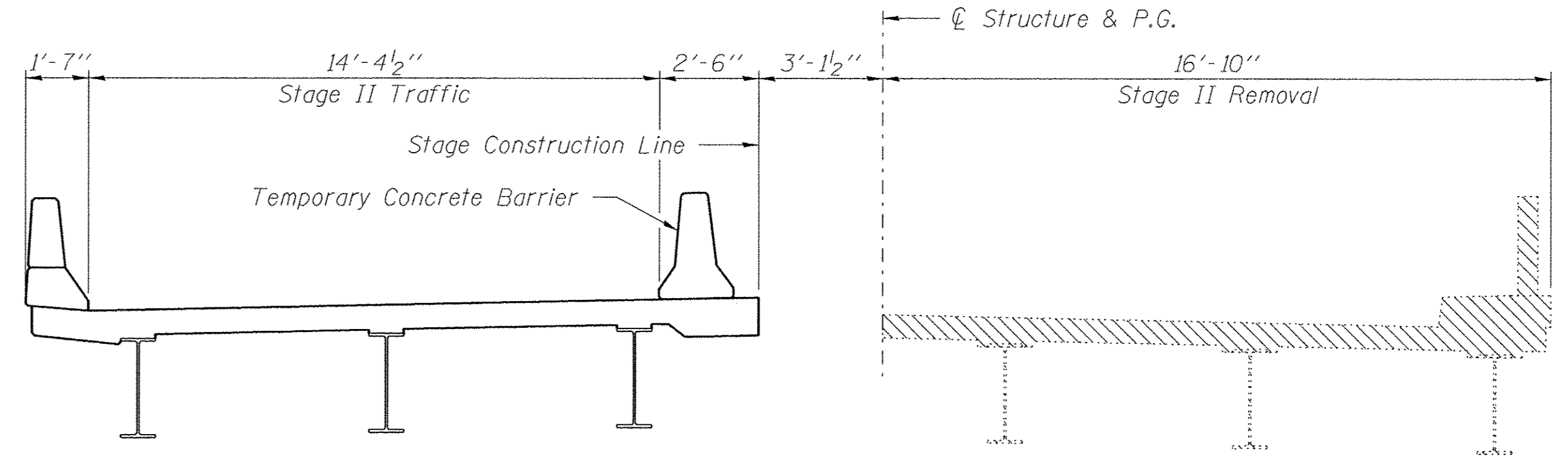
GENERAL DETAILS
STRUCTURE NO. 039-3267

SHEET NO. 3 OF 29 SHEETS

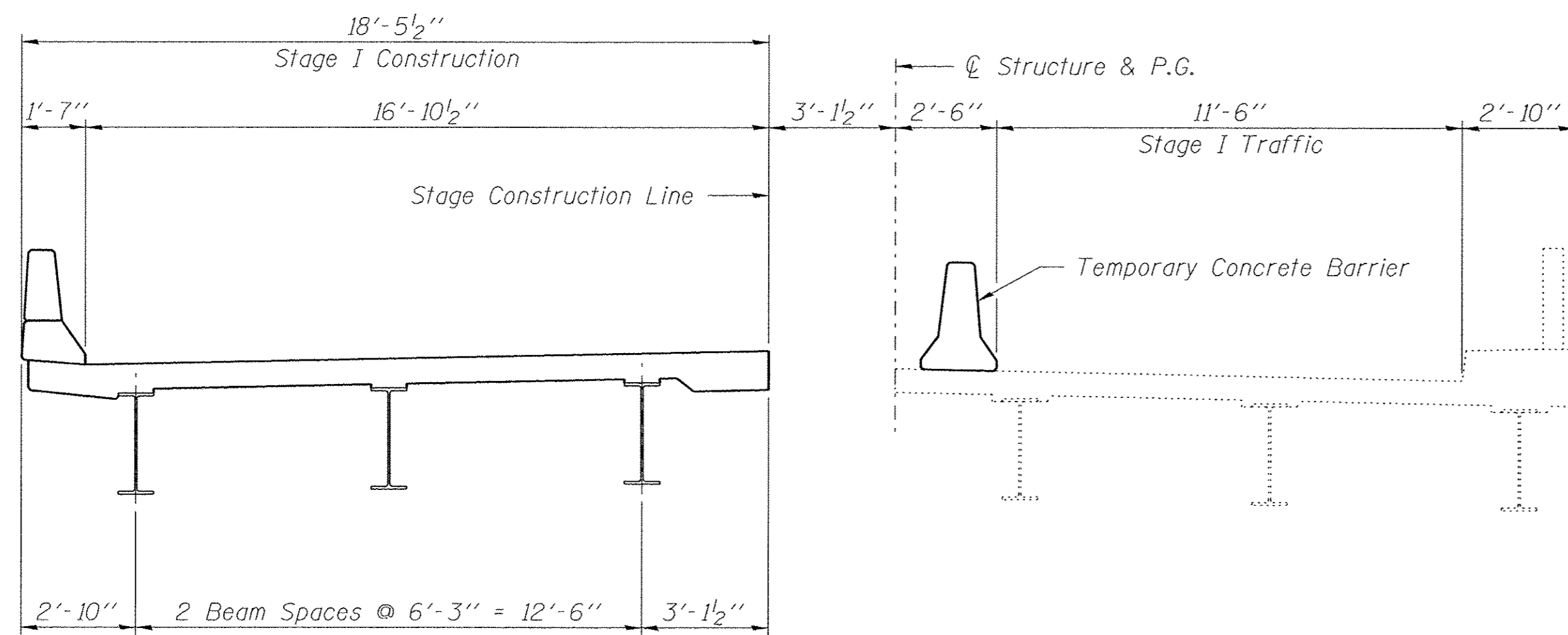
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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GIANT CITY ROAD			CONTRACT NO. 99577	
[ILLINOIS] FED. AID PROJECT BRS-919(111)				



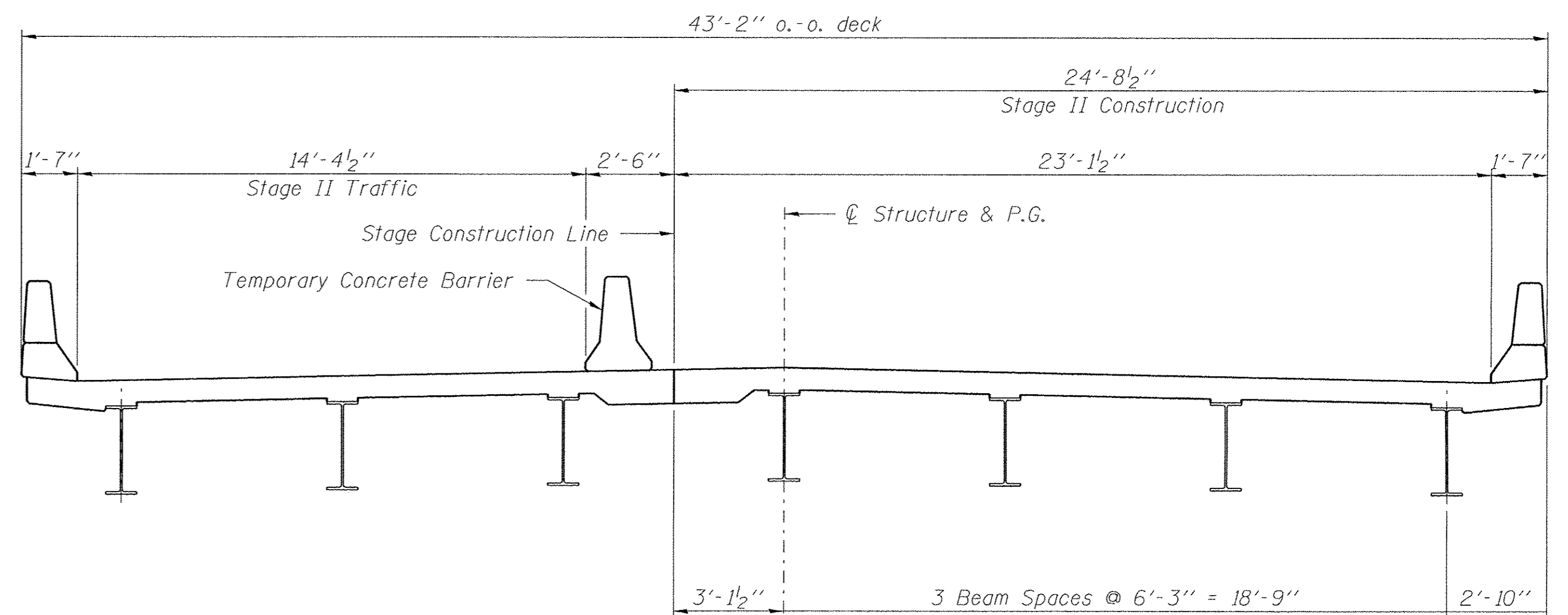
STAGE I REMOVAL



STAGE II REMOVAL



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

Notes:
 All sections are looking South.
 Hatched areas indicate removal.
 See Roadway Plans for quantity of Temporary Concrete Barrier.

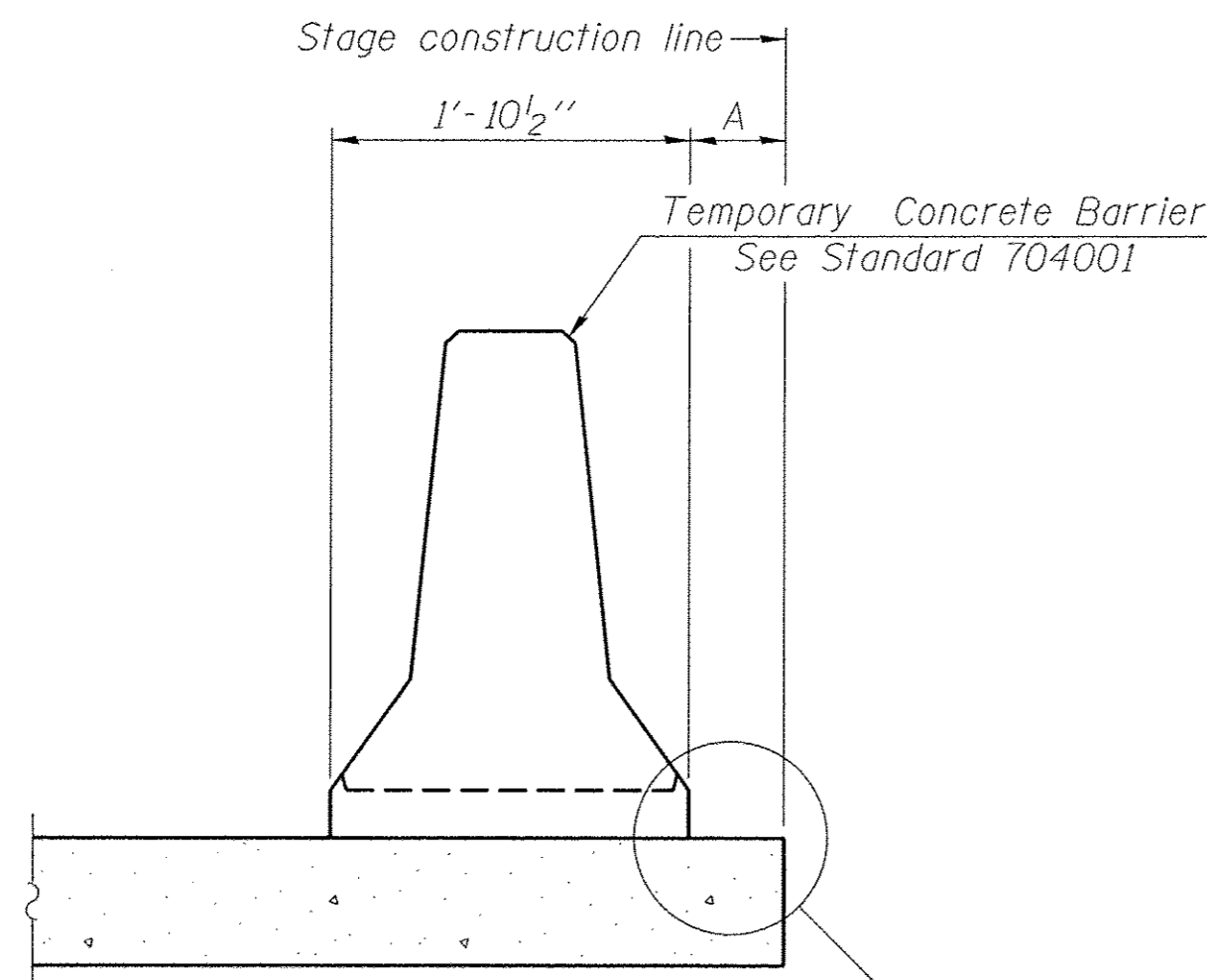
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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-000959	PLOT SCALE = \$SCALE\$	CHECKED - A.E.U.	REVISED -
	PLOT DATE = 12/14/2016	DRAWN - D.A.B.	REVISED -
		CHECKED - A.E.U.	REVISED -

STATE OF ILLINOIS
 JACKSON COUNTY HIGHWAY DEPARTMENT

STAGE CONSTRUCTION DETAILS
 STRUCTURE NO. 039-3267

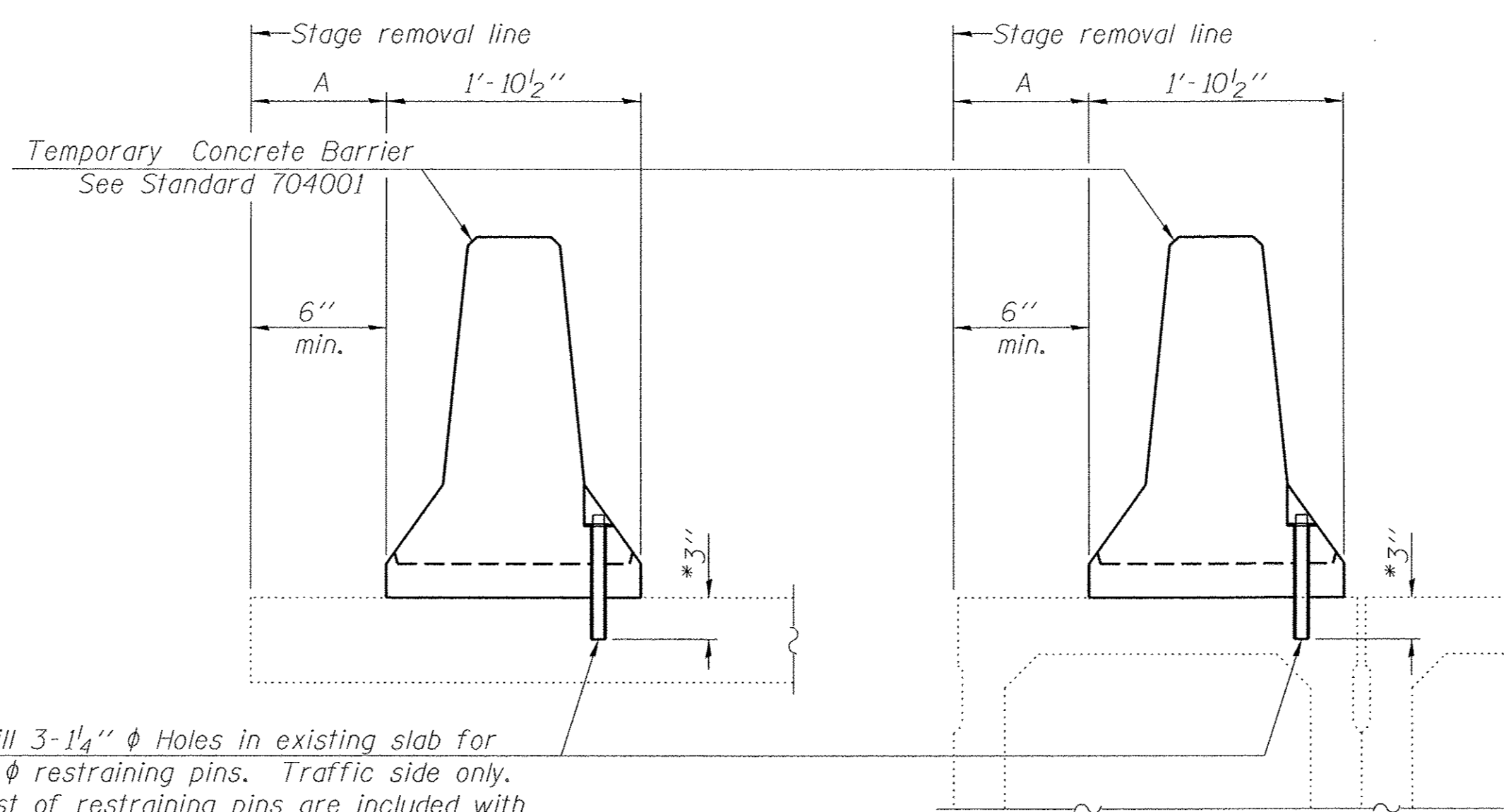
SHEET NO. 4 OF 29 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	20
GIANT CITY ROAD			CONTRACT NO. 99577	
ILLINOIS FED. AID PROJECT BRS-919(111)				



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

NEW SLAB OR NEW DECK BEAM

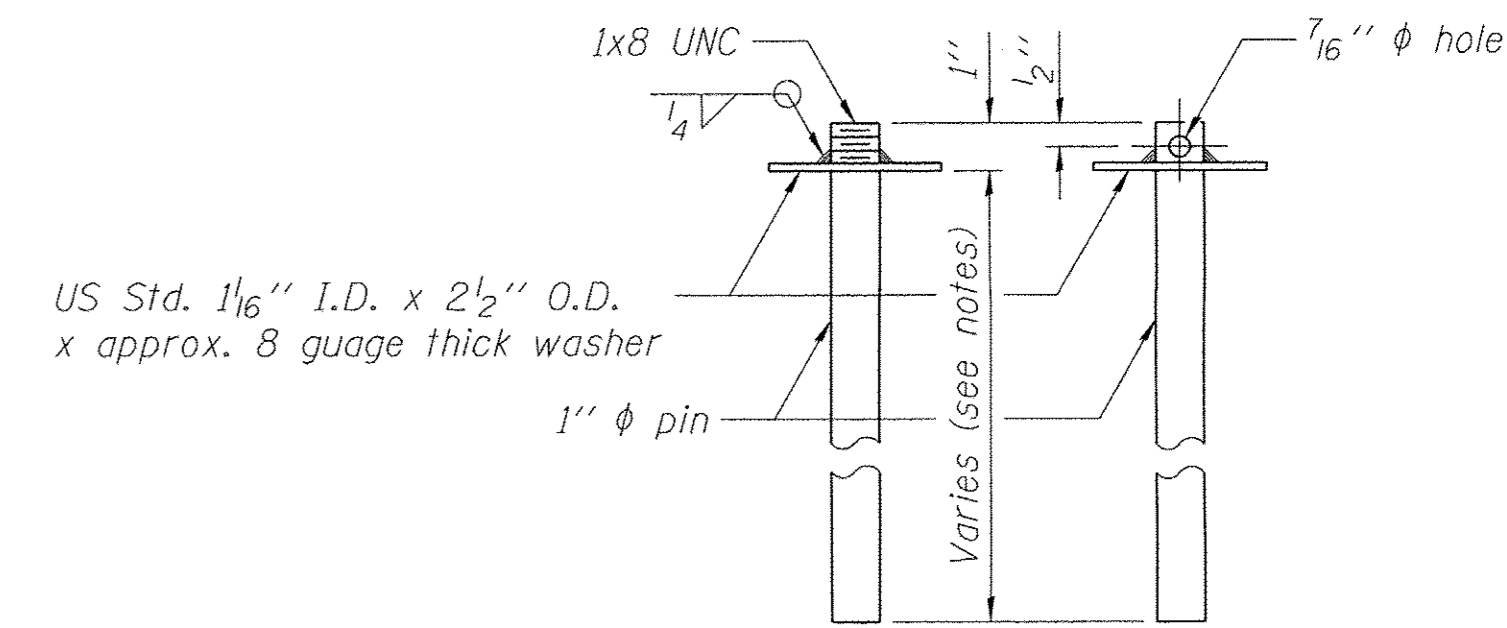


Drill 3-1/4" ϕ Holes in existing slab for 1" ϕ restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

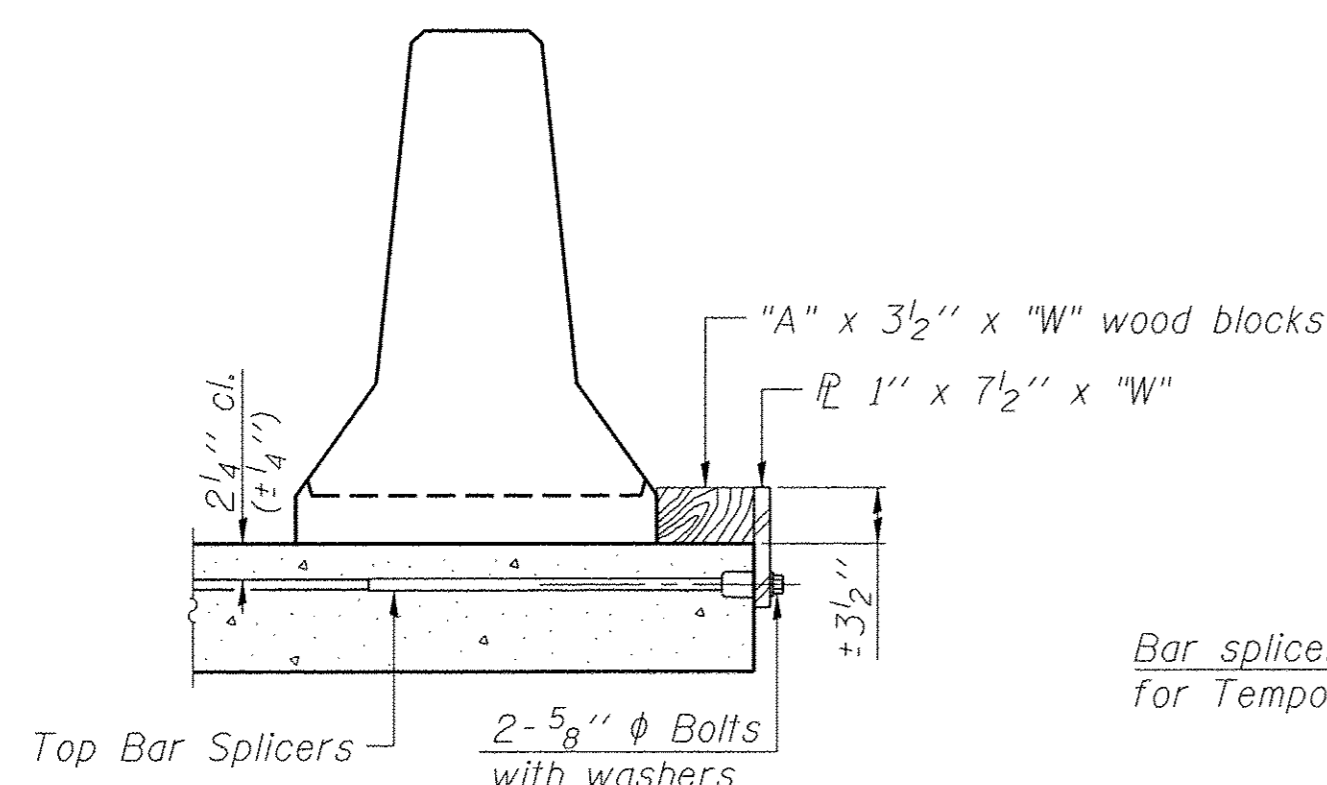
EXISTING SLAB

EXISTING DECK BEAM

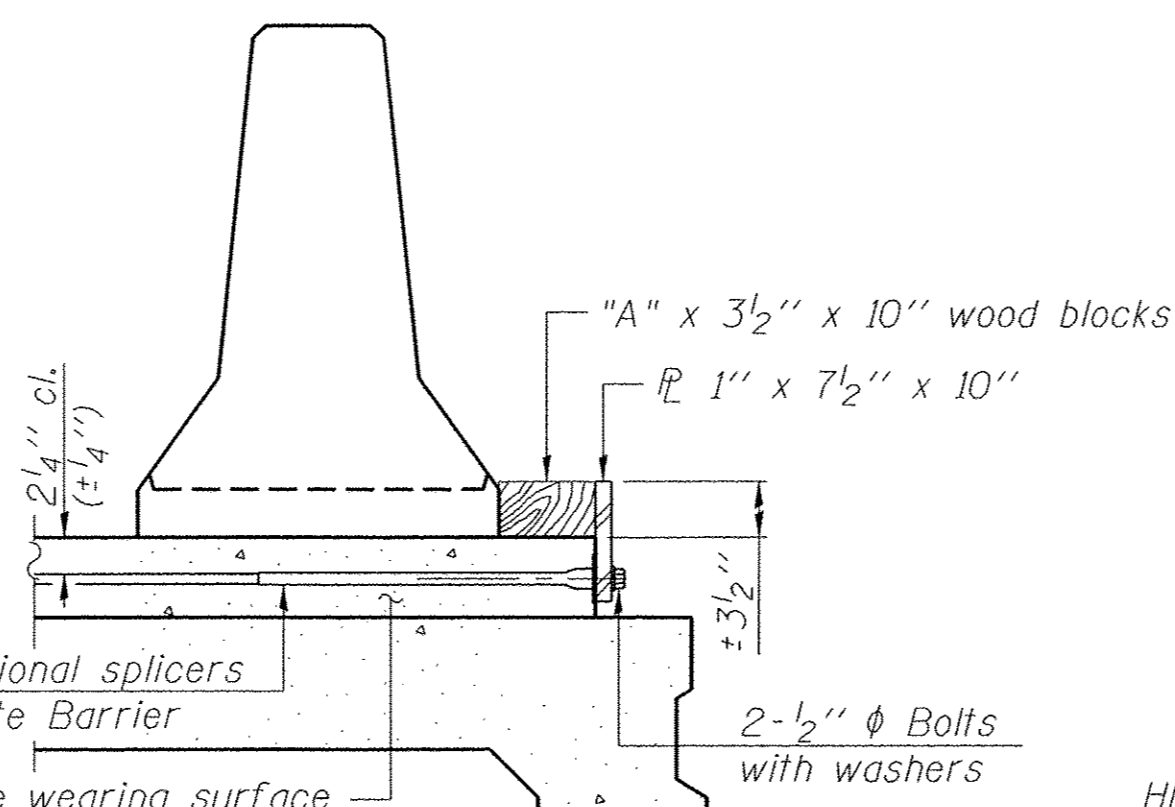
SECTIONS THRU SLAB OR DECK BEAM



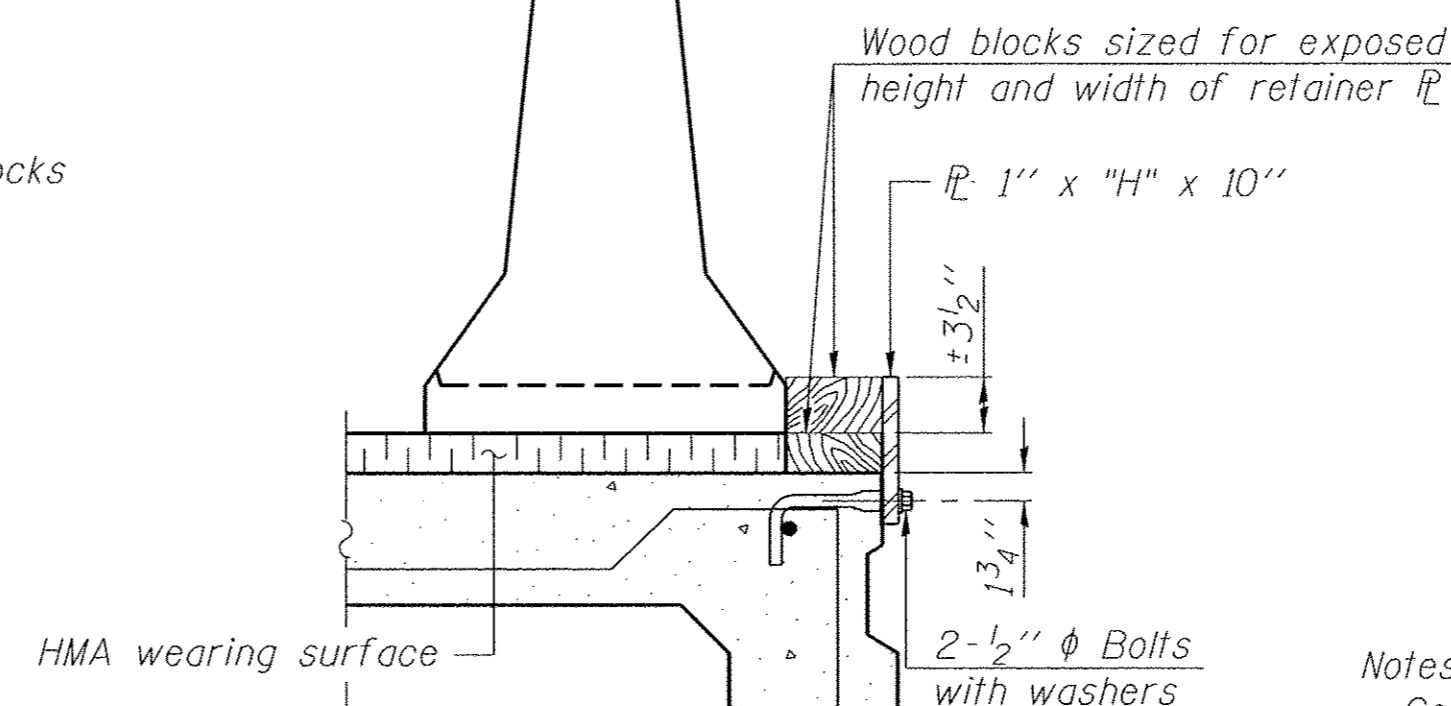
RESTRAINING PIN



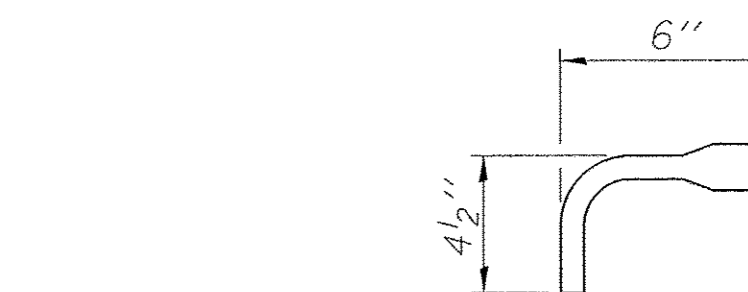
DETAIL I



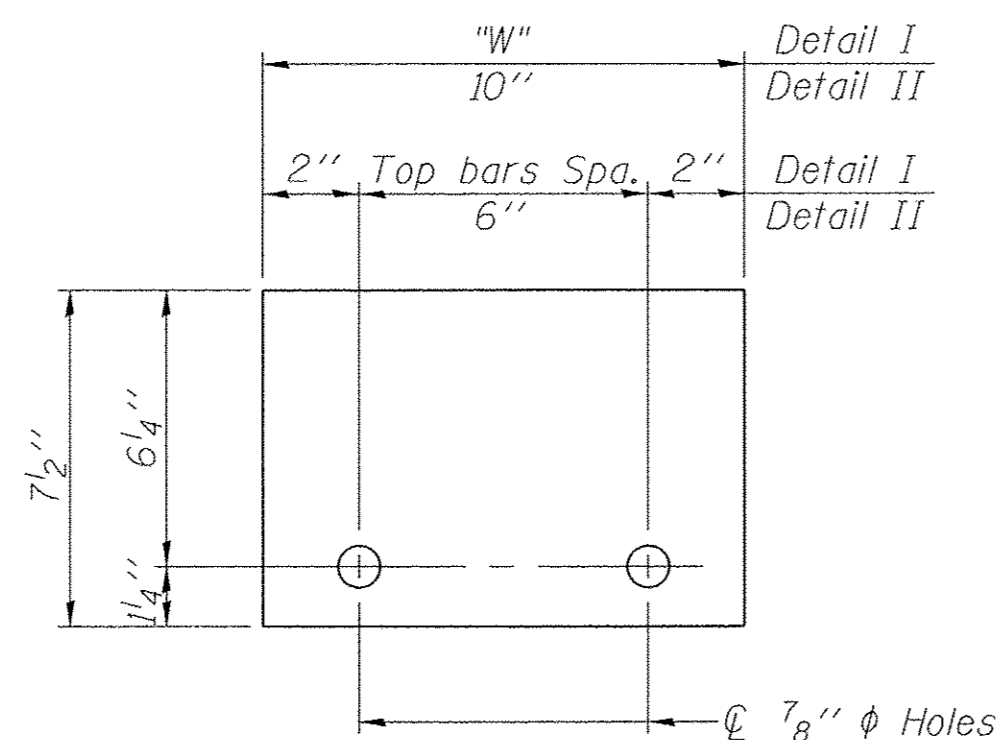
DETAIL II



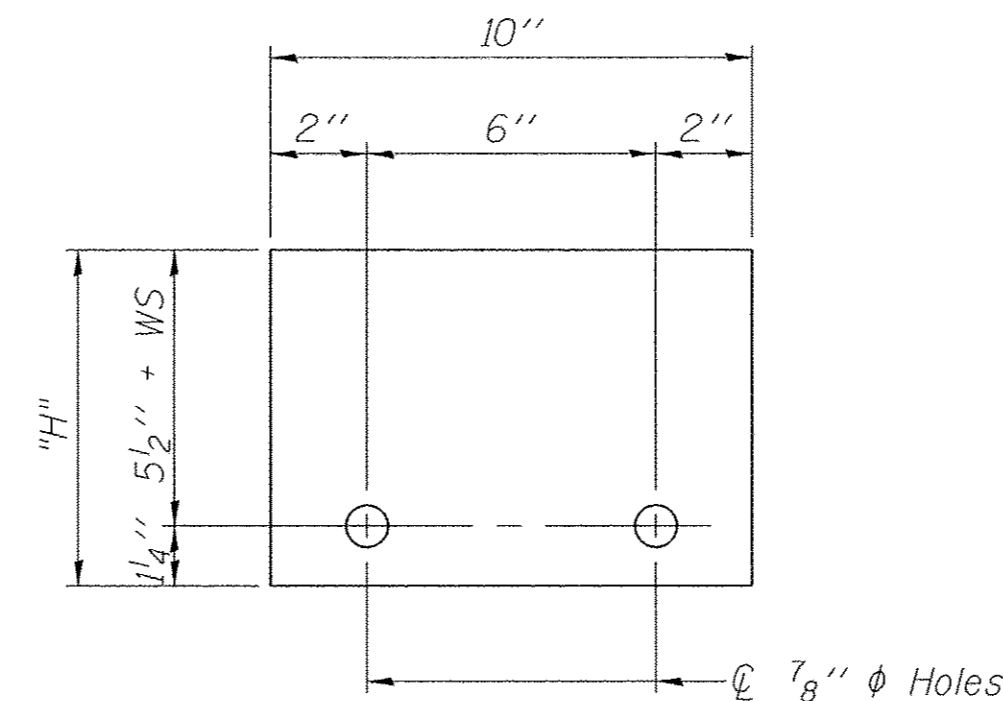
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER $\#$ 1" x 7 1/2" x "W"
(Detail I and II)



STEEL RETAINER $\#$ 1" x "H" x 10"
(Detail III)

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

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

R-27

11-22-2016

FILE NAME = 080340-sht-bridge.dgn	USER NAME = \$USER\$	DESIGNED - D.W.T.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LE / PE / SE CORP. 184-000998	PLOT SCALE = \$SCALE\$	CHECKED - A.E.U.	REVISED -
	PLOT DATE = 12/14/2016	DRAWN - D.A.B.	REVISED -
		CHECKED - A.E.U.	REVISED -

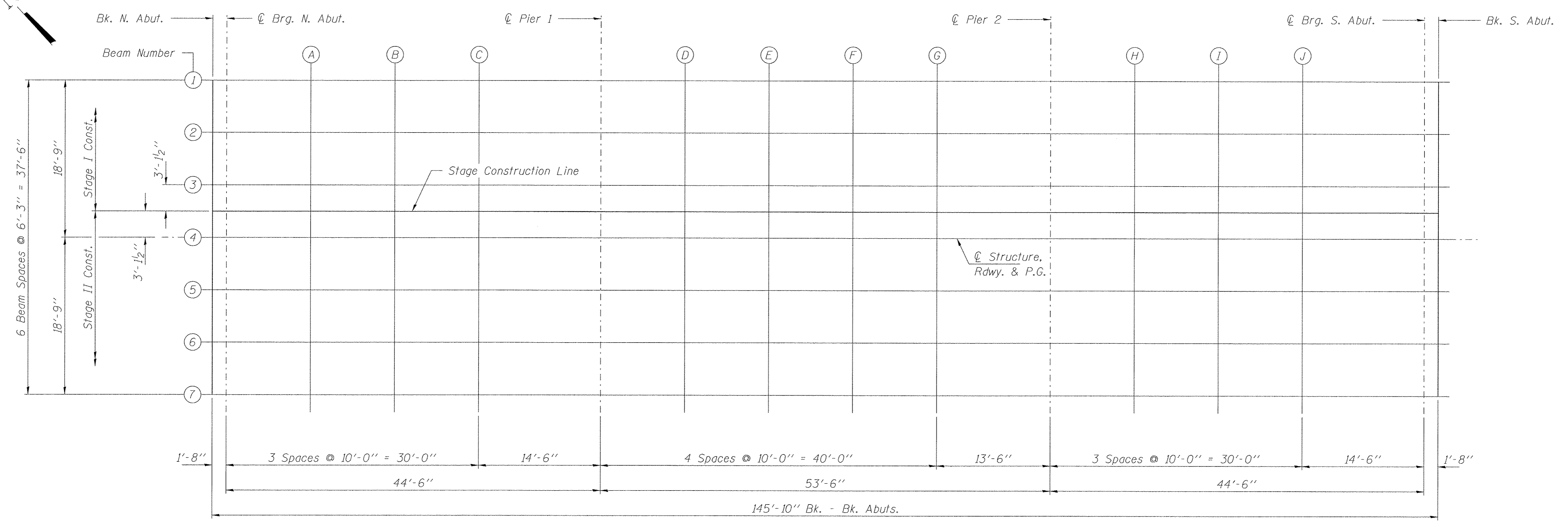
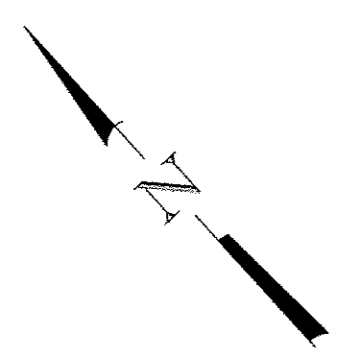
STATE OF ILLINOIS
 JACKSON COUNTY HIGHWAY DEPARTMENT

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
 STRUCTURE NO. 039-3267

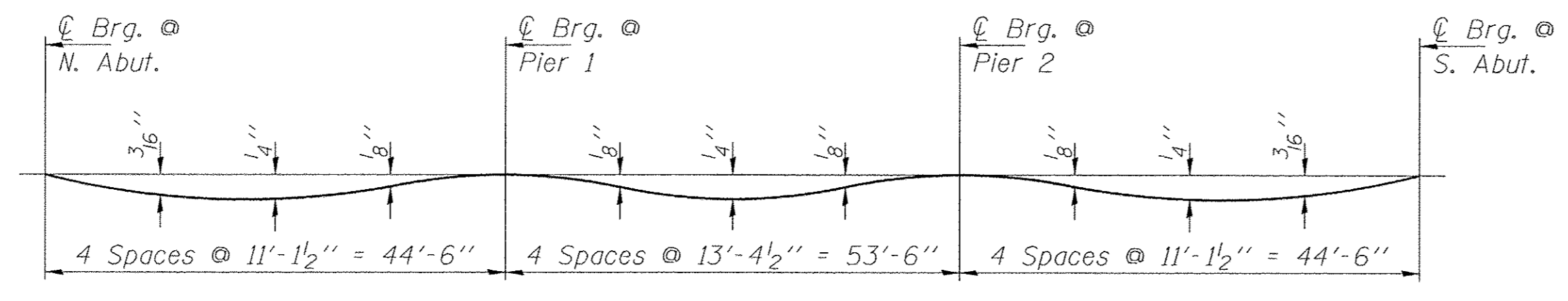
SHEET NO. 5 OF 29 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	21
GIANT CITY ROAD			CONTRACT NO. 99577	

ILLINOIS FED. AID PROJECT BRS-919(111)



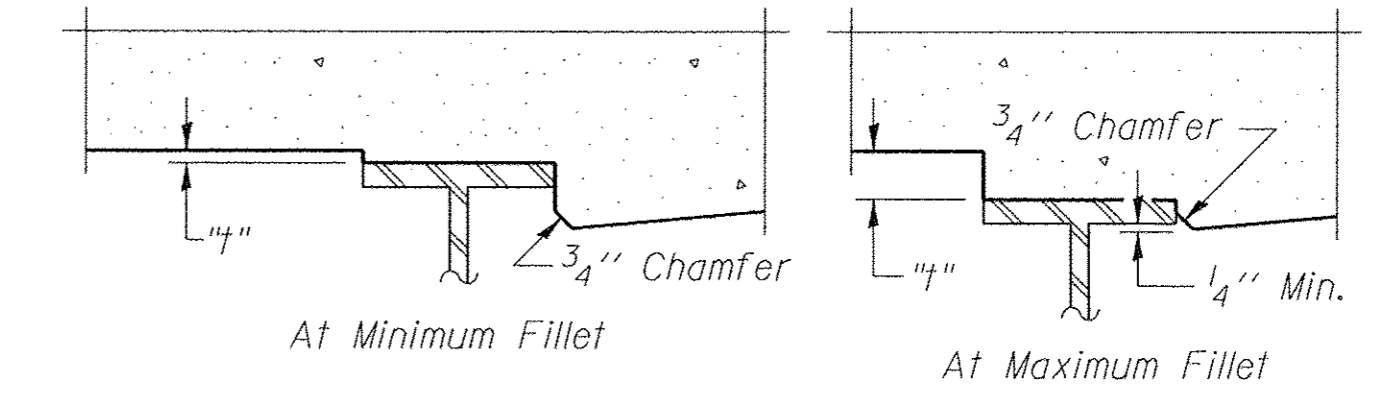
PLAN



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

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 on sheets 7 thru 9 of 29.



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 on sheets 7 thru 9 of 29, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

FILE NAME = 080340-sht-bridge.dgn HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS/P/E/SE CORP. 18A-00059	USER NAME = *USER*	DESIGNED - D.W.T. CHECKED - A.E.U.	REVISED - REVISED -	STATE OF ILLINOIS JACKSON COUNTY HIGHWAY DEPARTMENT	TOP OF SLAB ELEVATIONS STRUCTURE NO. 039-3267 SHEET NO. 6 OF 29 SHEETS	F.A.S. 919	SECTION 07-00153-00-BR	COUNTY JACKSON	TOTAL SHEETS 70	SHEET NO. 22
	PLOT SCALE = #SCALE*	DRAWN - D.A.B. CHECKED - A.E.U.	REVISED - REVISED -			GIANT CITY ROAD	CONTRACT NO. 99577			
	PLOT DATE = 12/14/2016	CHECKED - A.E.U.	REVISED -			ILLINOIS FED. AID PROJECT BRS-919(11)				

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	107+95.08	-18.75	395.61	395.61
☉ Brg. N. Abut.	107+96.75	-18.75	395.61	395.61
A	108+06.75	-18.75	395.61	395.63
B	108+16.75	-18.75	395.61	395.63
C	108+26.75	-18.75	395.61	395.63
☉ Pier 1	108+41.25	-18.75	395.61	695.61
D	108+51.25	-18.75	395.61	395.62
E	108+61.25	-18.75	395.61	395.63
F	108+71.25	-18.75	395.61	395.63
G	108+81.25	-18.75	395.61	395.62
☉ Pier 2	108+94.75	-18.75	395.61	395.61
H	109+04.75	-18.75	395.61	395.62
I	109+14.75	-18.75	395.61	395.63
J	109+24.75	-18.75	395.61	395.63
☉ Brg. S. Abut.	109+39.25	-18.75	395.61	395.61
Bk. S. Abut.	109+40.91	-18.75	395.61	395.61

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	107+95.08	-12.50	395.74	395.74
☉ Brg. N. Abut.	107+96.75	-12.50	395.74	395.74
A	108+06.75	-12.50	395.74	395.76
B	108+16.75	-12.50	395.74	395.76
C	108+26.75	-12.50	395.74	395.76
☉ Pier 1	108+41.25	-12.50	395.74	395.74
D	108+51.25	-12.50	395.74	395.75
E	108+61.25	-12.50	395.74	395.76
F	108+71.25	-12.50	395.74	395.76
G	108+81.25	-12.50	395.74	395.75
☉ Pier 2	108+94.75	-12.50	395.74	395.74
H	109+04.75	-12.50	395.74	395.75
I	109+14.75	-12.50	395.74	395.76
J	109+24.75	-12.50	395.74	395.76
☉ Brg. S. Abut.	109+39.25	-12.50	395.74	395.74
Bk. S. Abut.	109+40.91	-12.50	395.74	395.74

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	107+95.08	-6.25	395.87	395.87
☉ Brg. N. Abut.	107+96.75	-6.25	395.87	395.87
A	108+06.75	-6.25	395.87	395.89
B	108+16.75	-6.25	395.87	395.89
C	108+26.75	-6.25	395.87	395.89
☉ Pier 1	108+41.25	-6.25	395.87	395.87
D	108+51.25	-6.25	395.87	395.88
E	108+61.25	-6.25	395.87	395.89
F	108+71.25	-6.25	395.87	395.89
G	108+81.25	-6.25	395.87	395.88
☉ Pier 2	108+94.75	-6.25	395.87	395.87
H	109+04.75	-6.25	395.87	395.88
I	109+14.75	-6.25	395.87	395.89
J	109+24.75	-6.25	395.87	395.89
☉ Brg. S. Abut.	109+39.25	-6.25	395.87	395.87
Bk. S. Abut.	109+40.91	-6.25	395.87	395.87

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	107+95.08	-3.125	395.93	395.93
☉ Brg. N. Abut.	107+96.75	-3.125	395.93	395.93
A	108+06.75	-3.125	395.93	395.95
B	108+16.75	-3.125	395.93	395.96
C	108+26.75	-3.125	395.93	395.95
☉ Pier 1	108+41.25	-3.125	395.93	395.93
D	108+51.25	-3.125	395.93	395.94
E	108+61.25	-3.125	395.93	395.95
F	108+71.25	-3.125	395.93	395.95
G	108+81.25	-3.125	395.93	395.95
☉ Pier 2	108+94.75	-3.125	395.93	395.93
H	109+04.75	-3.125	395.93	395.95
I	109+14.75	-3.125	395.93	395.95
J	109+24.75	-3.125	395.93	395.96
☉ Brg. S. Abut.	109+39.25	-3.125	395.93	395.93
Bk. S. Abut.	109+40.91	-3.125	395.93	395.93

☉ STRUCTURE, RDWY., P.G. & BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	107+95.08	0.00	396.00	396.00
☉ Brg. N. Abut.	107+96.75	0.00	396.00	396.00
A	108+06.75	0.00	396.00	396.02
B	108+16.75	0.00	396.00	396.02
C	108+26.75	0.00	396.00	396.02
☉ Pier 1	108+41.25	0.00	396.00	396.00
D	108+51.25	0.00	396.00	396.01
E	108+61.25	0.00	396.00	396.02
F	108+71.25	0.00	396.00	396.02
G	108+81.25	0.00	396.00	396.01
☉ Pier 2	108+94.75	0.00	396.00	396.00
H	109+04.75	0.00	396.00	396.01
I	109+14.75	0.00	396.00	396.02
J	109+24.75	0.00	396.00	396.02
☉ Brg. S. Abut.	109+39.25	0.00	396.00	396.00
Bk. S. Abut.	109+40.91	0.00	396.00	396.00

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	107+95.08	6.25	395.87	395.87
☉ Brg. N. Abut.	107+96.75	6.25	395.87	395.87
A	108+06.75	6.25	395.87	395.89
B	108+16.75	6.25	395.87	395.89
C	108+26.75	6.25	395.87	395.89
☉ Pier 1	108+41.25	6.25	395.87	395.87
D	108+51.25	6.25	395.87	395.88
E	108+61.25	6.25	395.87	395.89
F	108+71.25	6.25	395.87	395.89
G	108+81.25	6.25	395.87	395.88
☉ Pier 2	108+94.75	6.25	395.87	395.87
H	109+04.75	6.25	395.87	395.88
I	109+14.75	6.25	395.87	395.89
J	109+24.75	6.25	395.87	395.89
☉ Brg. S. Abut.	109+39.25	6.25	395.87	395.87
Bk. S. Abut.	109+40.91	6.25	395.87	395.87

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	107+95.08	12.50	395.74	395.74
☉ Brg. N. Abut.	107+96.75	12.50	395.74	395.74
A	108+06.75	12.50	395.74	395.76
B	108+16.75	12.50	395.74	395.76
C	108+26.75	12.50	395.74	395.76
☉ Pier 1	108+41.25	12.50	395.74	395.74
D	108+51.25	12.50	395.74	395.75
E	108+61.25	12.50	395.74	395.76
F	108+71.25	12.50	395.74	395.76
G	108+81.25	12.50	395.74	395.74
☉ Pier 2	108+94.75	12.50	395.74	395.74
H	109+04.75	12.50	395.74	395.75
I	109+14.75	12.50	395.74	395.76
J	109+24.75	12.50	395.74	395.76
☉ Brg. S. Abut.	109+39.25	12.50	395.74	395.74
Bk. S. Abut.	109+40.91	12.50	395.74	395.74

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. N. Abut.	107+95.08	18.75	395.61	395.61
☉ Brg. N. Abut.	107+96.75	18.75	395.61	395.61
A	108+06.75	18.75	395.61	395.63
B	108+16.75	18.75	395.61	395.63
C	108+26.75	18.75	395.61	395.63
☉ Pier 1	108+41.25	18.75	395.61	395.61
D	108+51.25	18.75	395.61	395.62
E	108+61.25	18.75	395.61	395.63
F	108+71.25	18.75	395.61	395.63
G	108+81.25	18.75	395.61	395.62
☉ Pier 2	108+94.75	18.75	395.61	395.61
H	109+04.75	18.75	395.61	395.62
I	109+14.75	18.75	395.61	395.63
J	109+24.75	18.75	395.61	395.63
☉ Brg. S. Abut.	109+39.25	18.75	395.61	395.61
Bk. S. Abut.	109+40.91	18.75	395.61	395.61

FACE OF EAST PARAPET

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	107+66.08	-20.00	395.58
A	107+76.08	-20.00	395.58
B	107+86.08	-20.00	395.58
S. End North Appr. Slab	107+96.08	-20.00	395.58

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	107+66.08	-12.00	395.75
A	107+76.08	-12.00	395.75
B	107+86.08	-12.00	395.75
S. End North Appr. Slab	107+96.08	-12.00	395.75

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	107+66.08	-3.13	395.93
A	107+76.08	-3.13	395.93
B	107+86.08	-3.13	395.93
S. End North Appr. Slab	107+96.08	-3.13	395.93

PROPOSED ROADWAY & P.G.

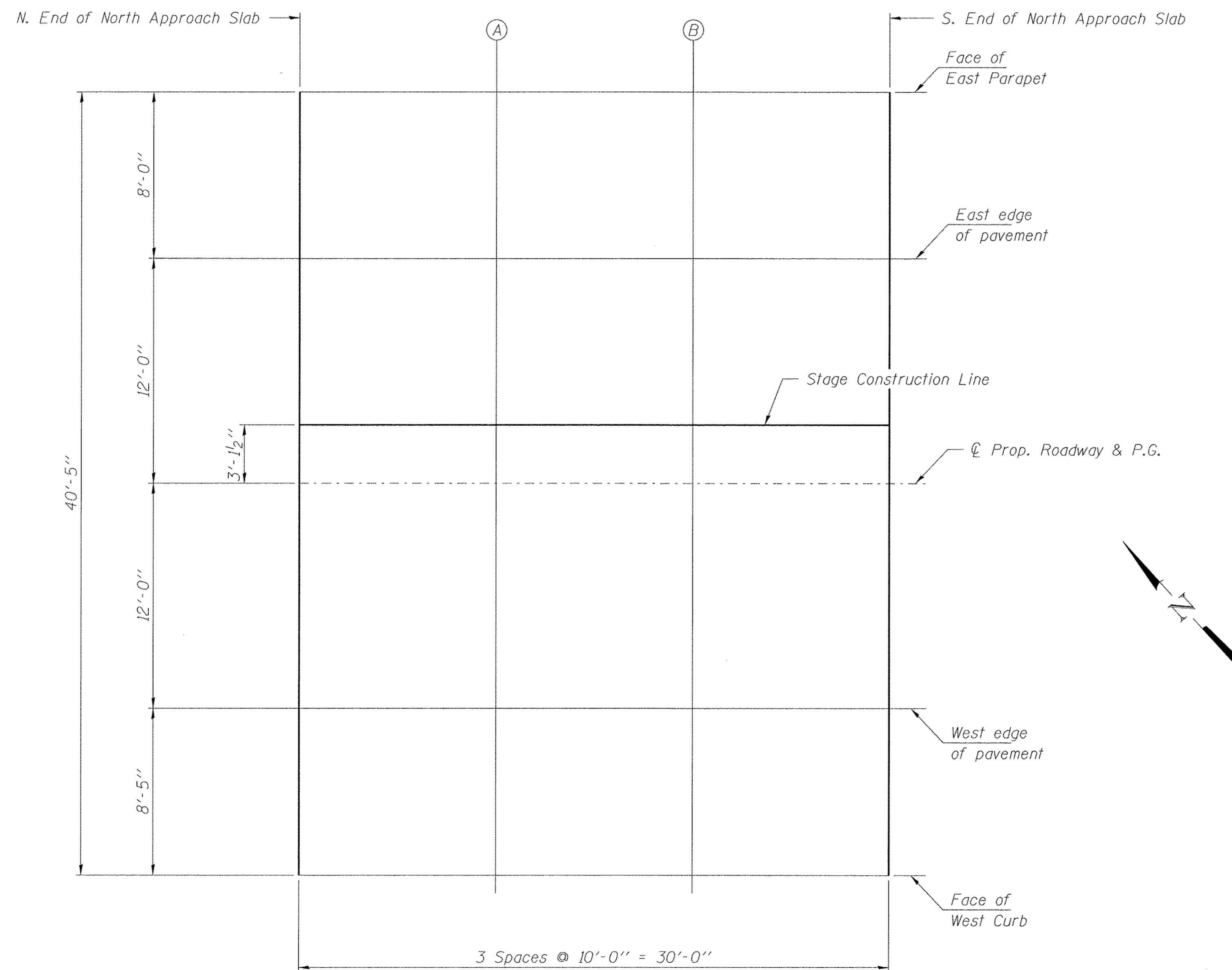
Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	107+66.08	0.00	396.0
A	107+76.08	0.00	396.0
B	107+86.08	0.00	396.0
S. End North Appr. Slab	107+96.08	0.00	396.0

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	107+66.08	12.00	395.75
A	107+76.08	12.00	395.75
B	107+86.08	12.00	395.75
S. End North Appr. Slab	107+96.08	12.00	395.75

FACE OF WEST CURB

Location	Station	Offset	Theoretical Grade Elevations
N. End North Appr. Slab	107+66.08	20.42	395.57
A	107+76.08	20.42	395.57
B	107+86.08	20.42	395.57
S. End North Appr. Slab	107+96.08	20.42	395.57



NORTH APPROACH SLAB - PLAN

FILE NAME = 080340-sht-br1.dgn	USER NAME = \$USER\$	DESIGNED - D.W.T.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184.000958	PLOT SCALE = \$SCALE\$	CHECKED - A.E.U.	REVISED -
HLR	PLOT DATE = 12/14/2016	DRAWN - D.A.B.	REVISED -
		CHECKED - A.E.U.	REVISED -

**STATE OF ILLINOIS
JACKSON COUNTY HIGHWAY DEPARTMENT**

**TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 039-3267**

SHEET NO. 10 OF 29 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	26
GIANT CITY ROAD			CONTRACT NO. 99577	
[ILLINOIS] FED. AID PROJECT BRS-919(111)				

FACE OF EAST PARAPET

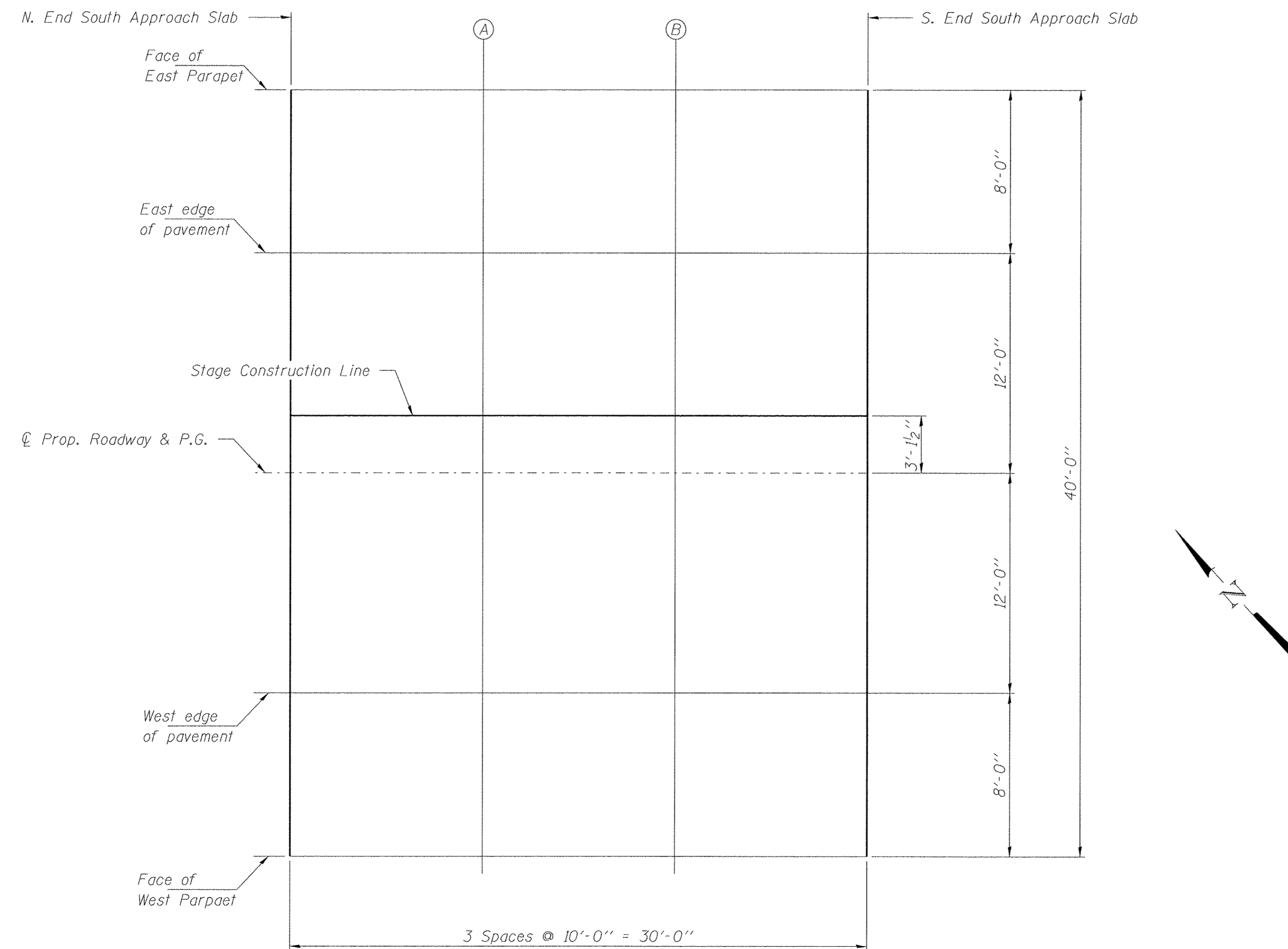
Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	109+39.92	-20.00	395.58
A	109+49.92	-20.00	395.58
B	109+59.92	-20.00	395.58
S. End South Appr. Slab	109+69.92	-20.00	395.58

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	109+39.92	-12.00	395.75
A	109+49.92	-12.00	395.75
B	109+59.92	-12.00	395.75
S. End South Appr. Slab	109+69.92	-12.00	395.75

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	109+39.92	-3.13	395.93
A	109+49.92	-3.13	395.93
B	109+59.92	-3.13	395.93
S. End South Appr. Slab	109+69.92	-3.13	395.93



SOUTH APPROACH SLAB - PLAN

ɪ PROPOSED ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	109+39.92	0.00	396.00
A	109+49.92	0.00	396.00
B	109+59.92	0.00	396.00
S. End South Appr. Slab	109+69.92	0.00	396.00

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	109+39.92	12.00	395.75
A	109+49.92	12.00	395.75
B	109+59.92	12.00	395.75
S. End South Appr. Slab	109+69.92	12.00	395.75

FACE OF WEST PARAPET

Location	Station	Offset	Theoretical Grade Elevations
N. End South Appr. Slab	109+39.92	20.00	395.58
A	109+49.92	20.00	395.58
B	109+59.92	20.00	395.58
S. End South Appr. Slab	109+69.92	20.00	395.58

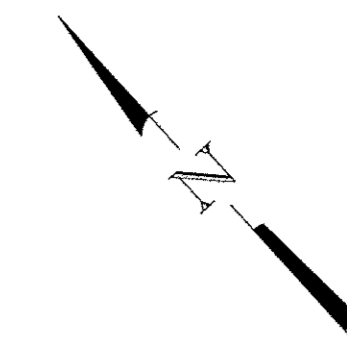
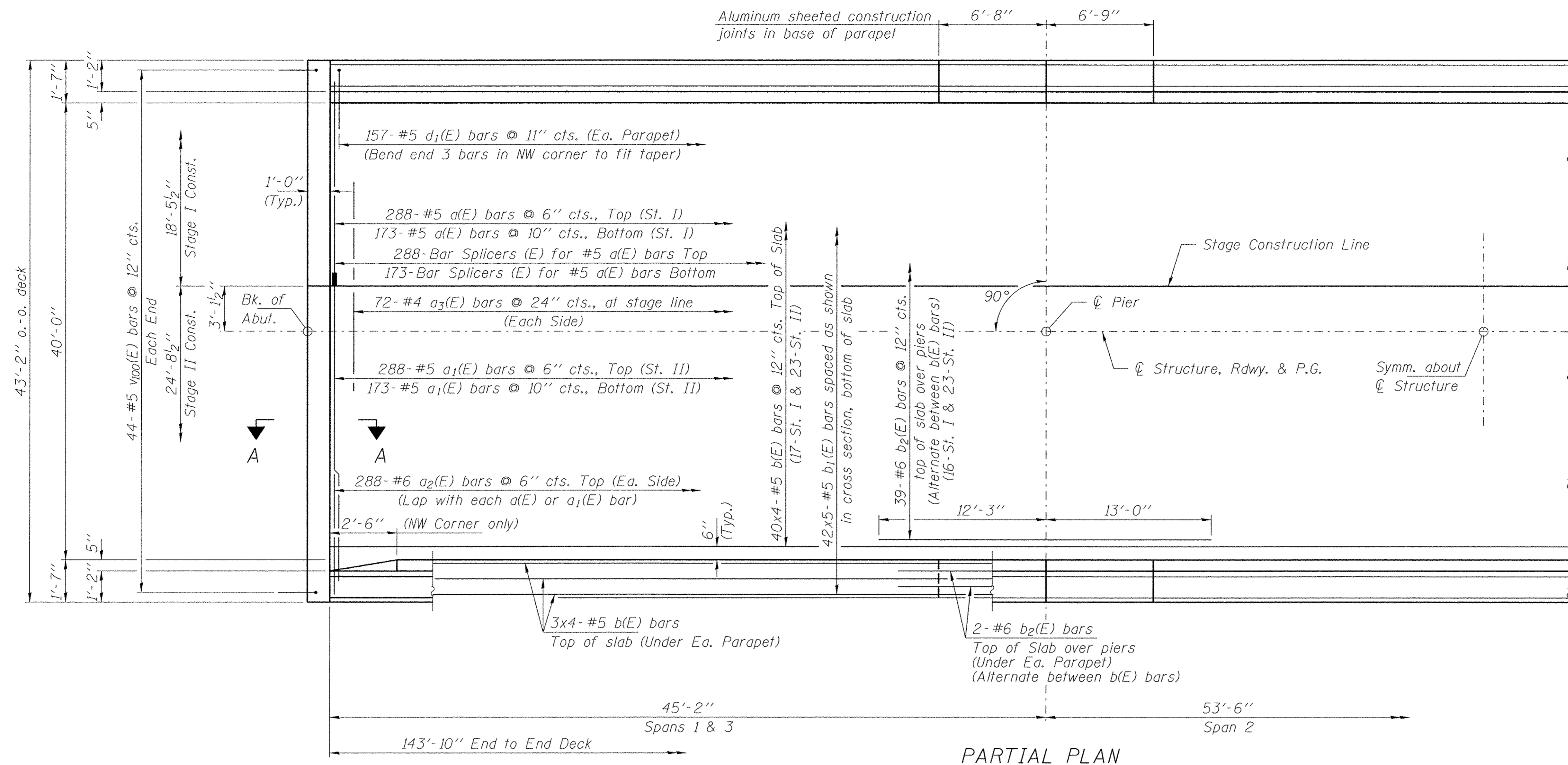
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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS/P/E/SE CORP. 194.000959	PLOT SCALE = \$SCALE\$	CHECKED - A.E.U.	REVISED -
	PLOT DATE = 12/14/2016	DRAWN - D.A.B.	REVISED -
		CHECKED - A.E.U.	REVISED -

**STATE OF ILLINOIS
JACKSON COUNTY HIGHWAY DEPARTMENT**

**TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 039-3267**

SHEET NO. 11 OF 29 SHEETS

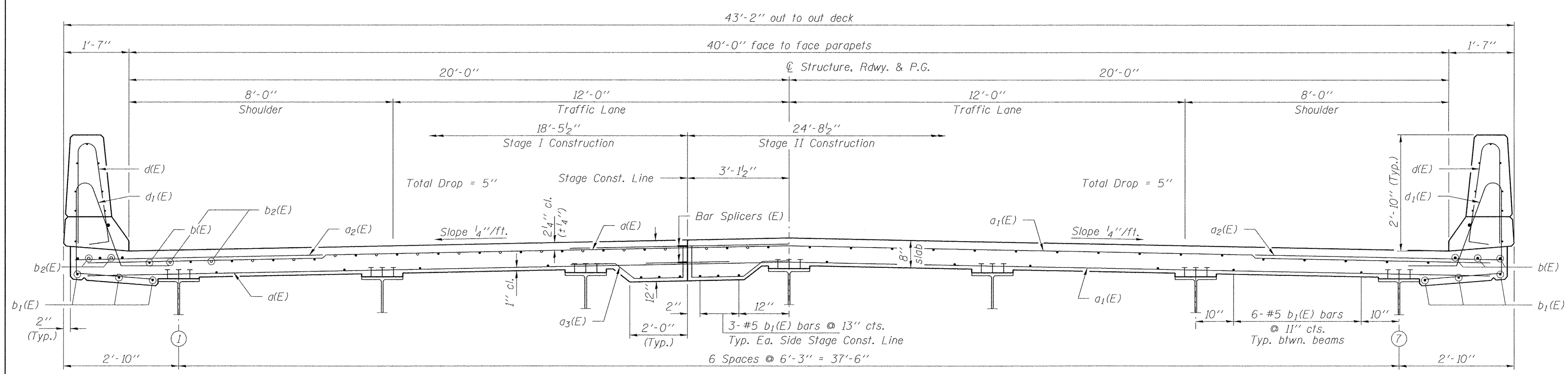
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	27
GIANT CITY ROAD		CONTRACT NO. 99577		
ILLINOIS FED. AID PROJECT BR5-919(111)				



Notes:
 See sheets 13 & 14 of 29 for superstructure details and Bill of Material.
 Bars indicated thus 40x4-#5 etc. indicates 40 lines of bars with 4 lengths per line.
 See sheet 13 of 29 for parapet reinforcement.
 See sheet 14 of 29 for Section A-A.
 See sheet 24 of 29 for Bar Splicer details.

MIN. BAR LAP
 #5 bars = 3'-6"

PARTIAL PLAN

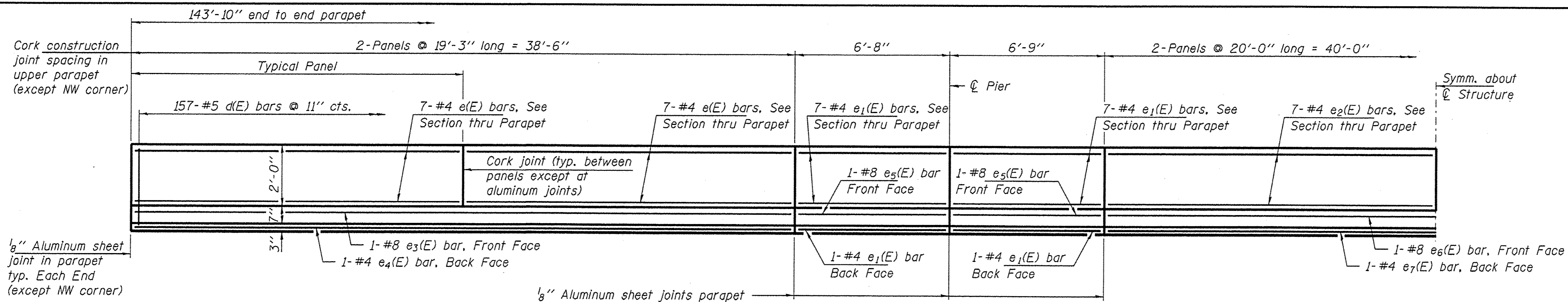


NEAR PIER

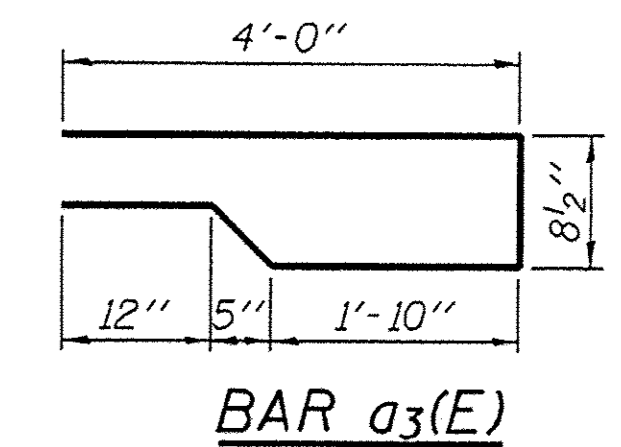
CROSS SECTION
 (Looking South)

NEAR MIDSPAN

FILE NAME = 080340-sht-bridge.dgn	USER NAME = #USER#	DESIGNED - D.W.T.	REVISED -	STATE OF ILLINOIS JACKSON COUNTY HIGHWAY DEPARTMENT	SUPERSTRUCTURE STRUCTURE NO. 039-3267	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = #SCALE#	CHECKED - A.E.U.	REVISED -			919	07-00153-00-BR	JACKSON	70	28
ILLINOIS PROFESSIONAL DESIGN FIRM 151 PFE / SE CORP. 184-000958	PLOT DATE = 12/14/2016	DRAWN - D.A.B.	REVISED -			GIANT CITY ROAD		CONTRACT NO. 99577		
		CHECKED - A.E.U.	REVISED -			SHEET NO. 12 OF 29 SHEETS		ILLINOIS FED. AID PROJECT BRS-919(111)		

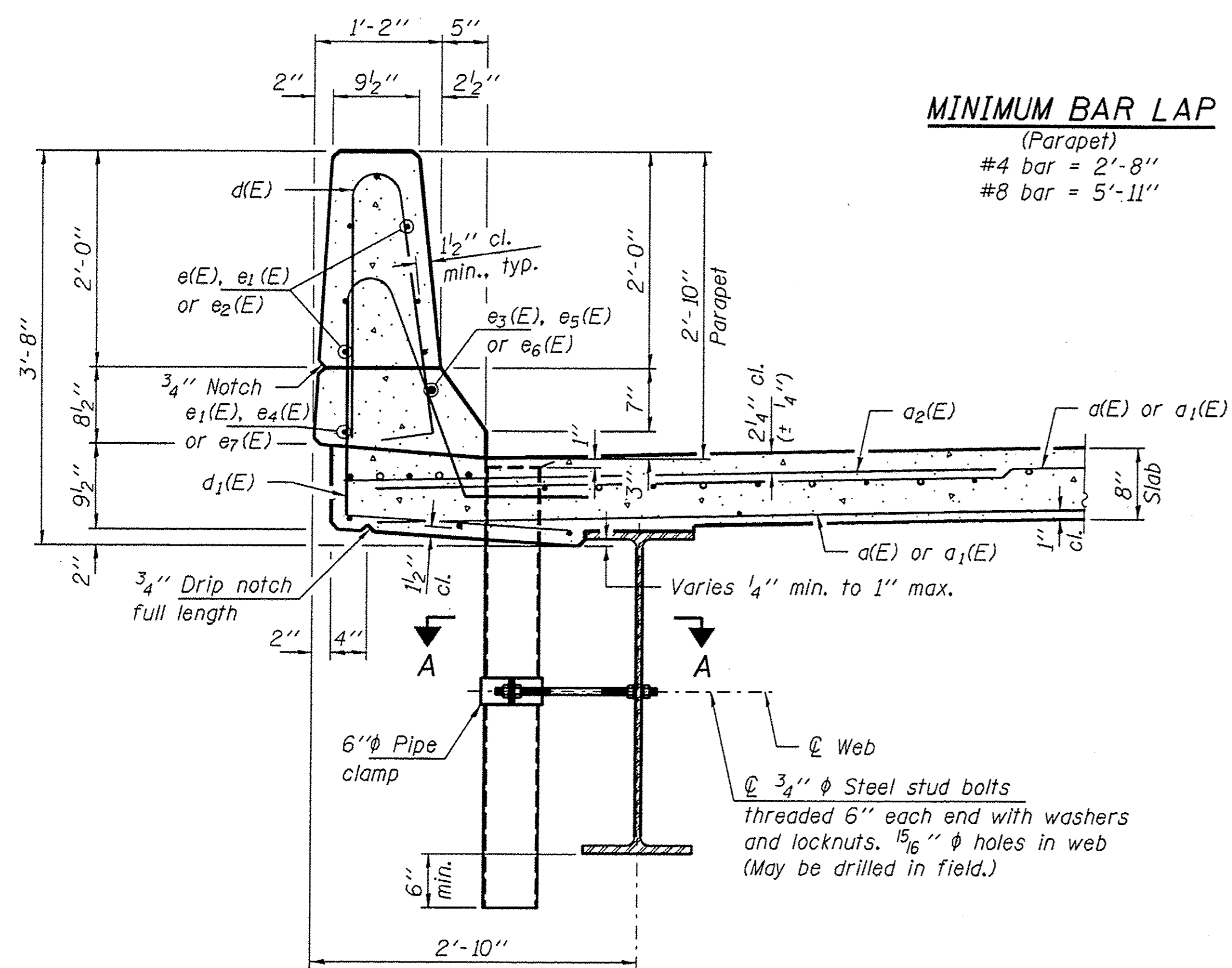


INSIDE ELEVATION OF PARAPET

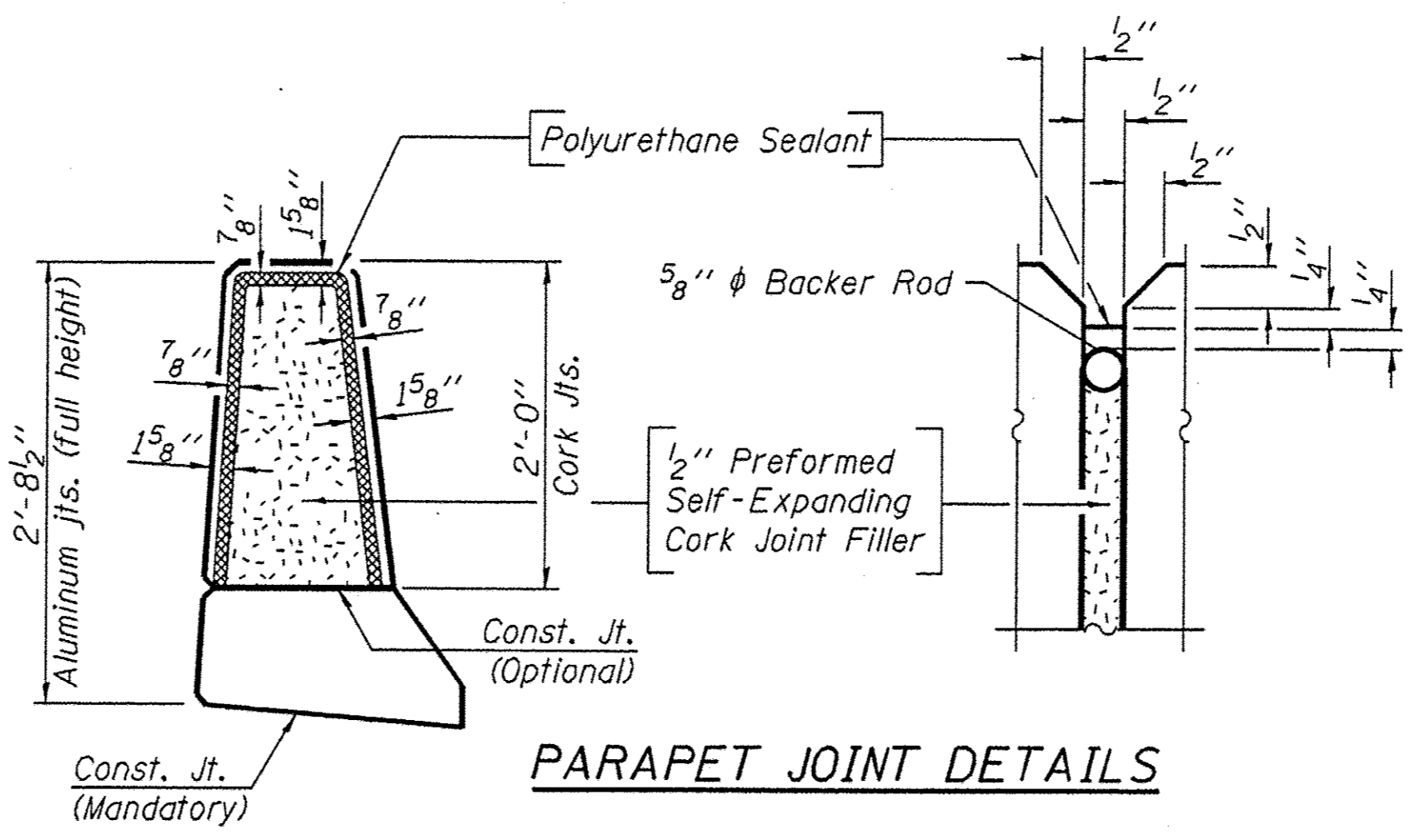


BAR a3(E)

MINIMUM BAR LAP
(Parapet)
#4 bar = 2'-8"
#8 bar = 5'-11"

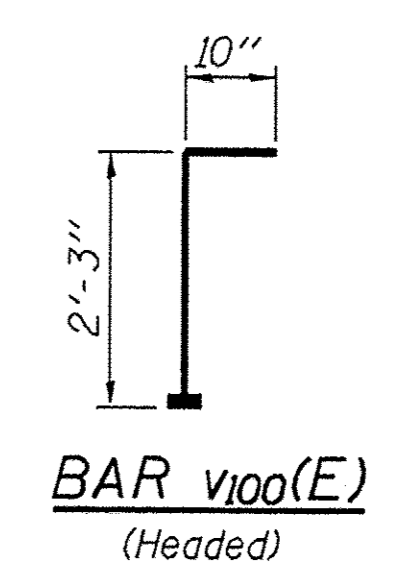


SECTION THRU PARAPET

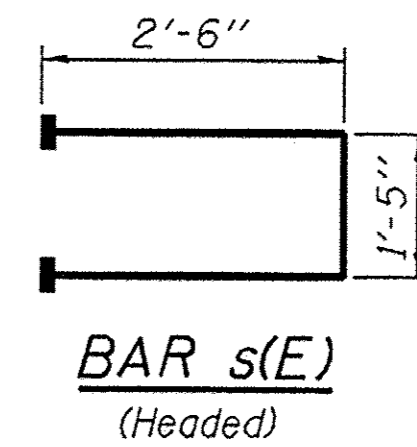


PARAPET JOINT DETAILS

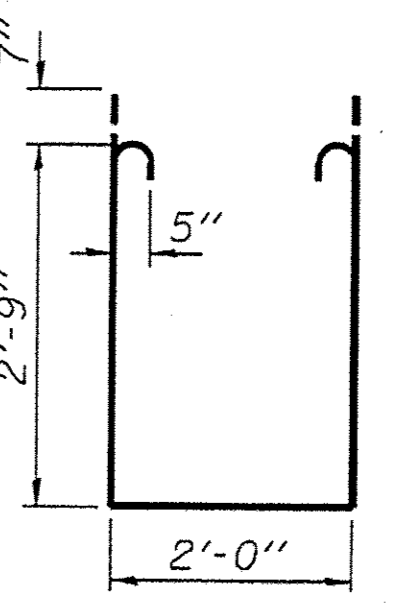
Notes:
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
The exterior surfaces of the floor drains shall not be painted.
The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
The clamping device shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a 5/8" backer rod.
The 1/2" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.
Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.



BAR v100(E)
(Headed)



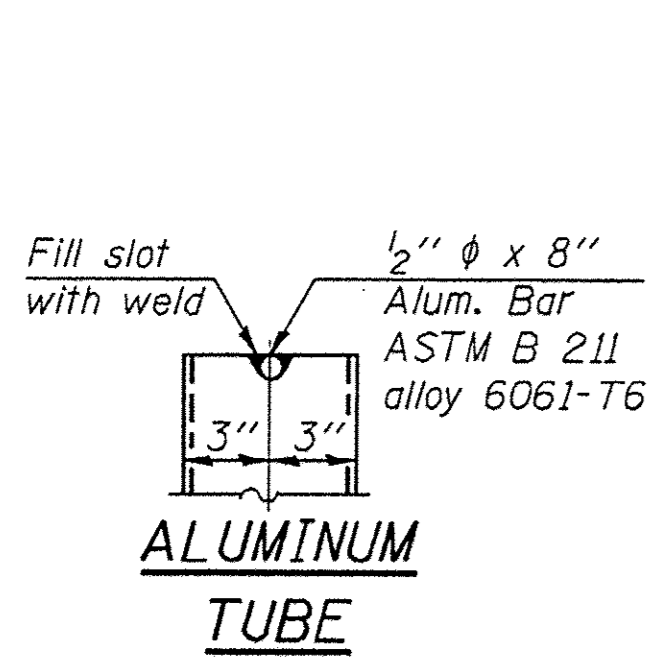
BAR s(E)
(Headed)



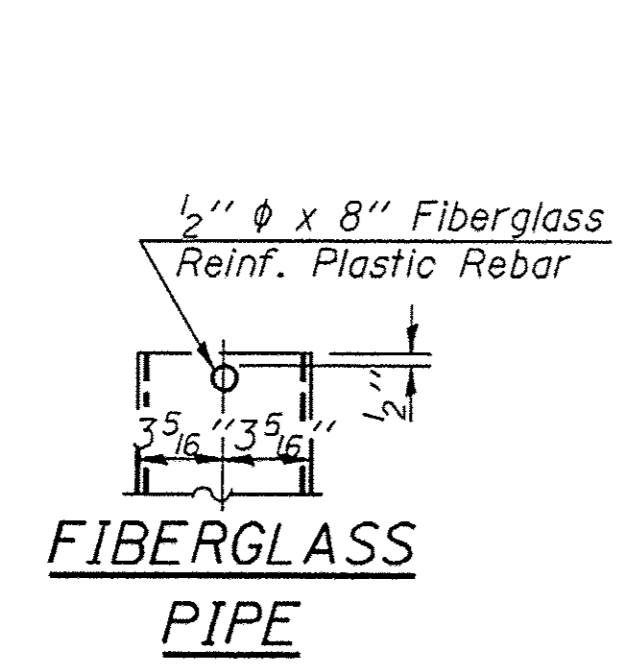
BAR s1(E)

SUPERSTRUCTURE BILL OF MATERIAL

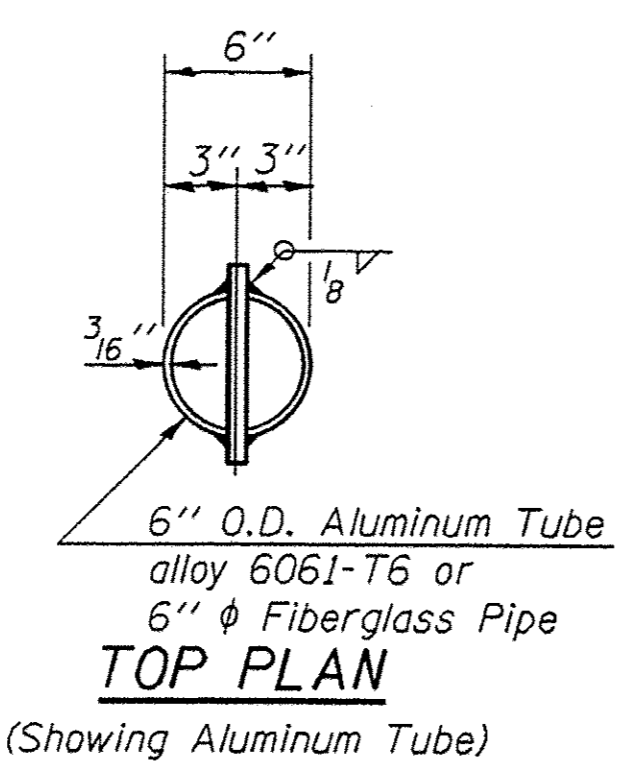
Bar	No.	Size	Length	Shape
a(E)	461	#5	17'-11"	—
a1(E)	461	#5	24'-2"	—
a2(E)	576	#6	6'-6"	—
a3(E)	144	#4	8'-2"	—
b(E)	184	#5	38'-6"	—
b1(E)	210	#5	31'-6"	—
b2(E)	86	#6	25'-3"	—
d(E)	314	#5	5'-7"	—
d1(E)	314	#5	7'-7"	—
e(E)	56	#4	18'-11"	—
e1(E)	64	#4	6'-4"	—
e2(E)	28	#4	19'-8"	—
e3(E)	4	#8	38'-2"	—
e4(E)	4	#4	38'-2"	—
e5(E)	8	#8	6'-4"	—
e6(E)	2	#8	39'-8"	—
e7(E)	2	#4	39'-8"	—
m(E)	6	#6	24'-4"	—
m1(E)	20	#6	5'-10"	—
m2(E)	8	#6	2'-6"	—
m3(E)	28	#6	4'-0"	—
m4(E)	6	#6	18'-1"	—
m5(E)	8	#6	2'-9"	—
s(E)	84	#5	6'-5"	—
s1(E)	84	#5	8'-8"	—
v100(E)	88	#5	3'-1"	—
Concrete Superstructure		Cu. Yd.	188.3	
Bridge Deck Grooving		Sq. Yd.	607	
Protective Coat		Sq. Yd.	760	
Reinforcement Bars, Epoxy Coated		Pound	53,670	
Bar Splicers		Each	467	



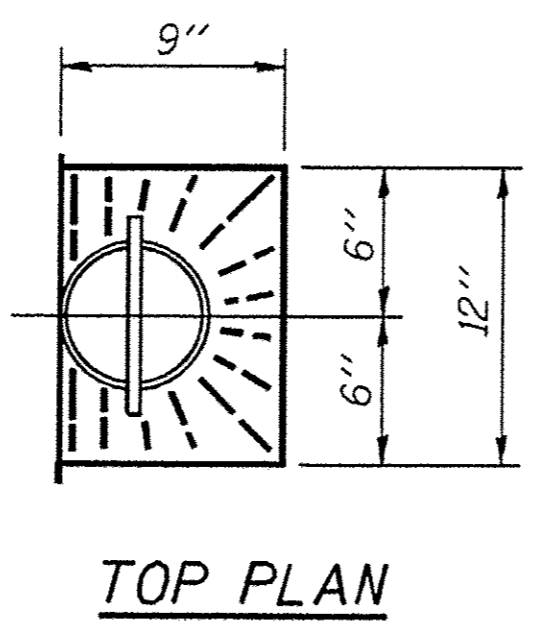
ALUMINUM TUBE



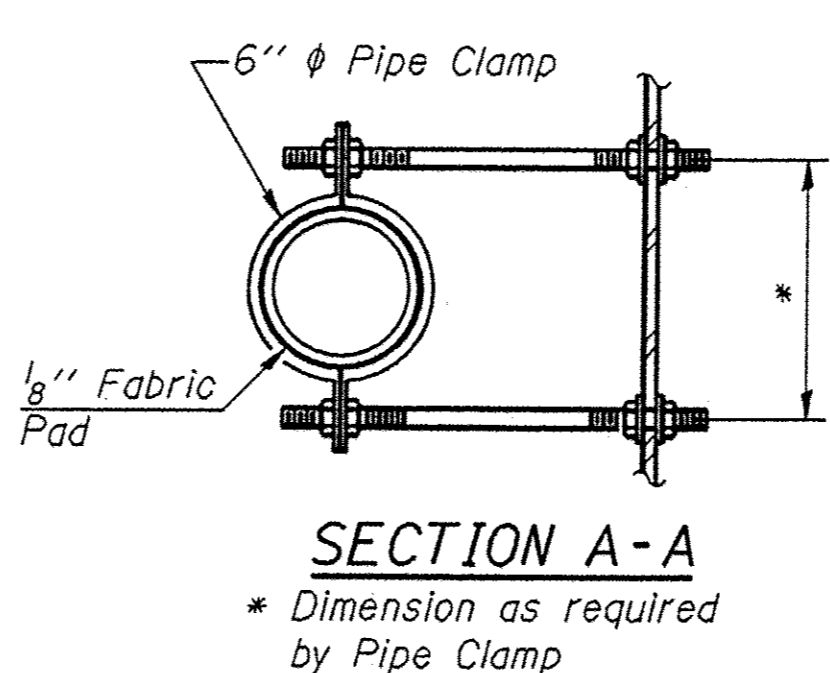
FIBERGLASS PIPE



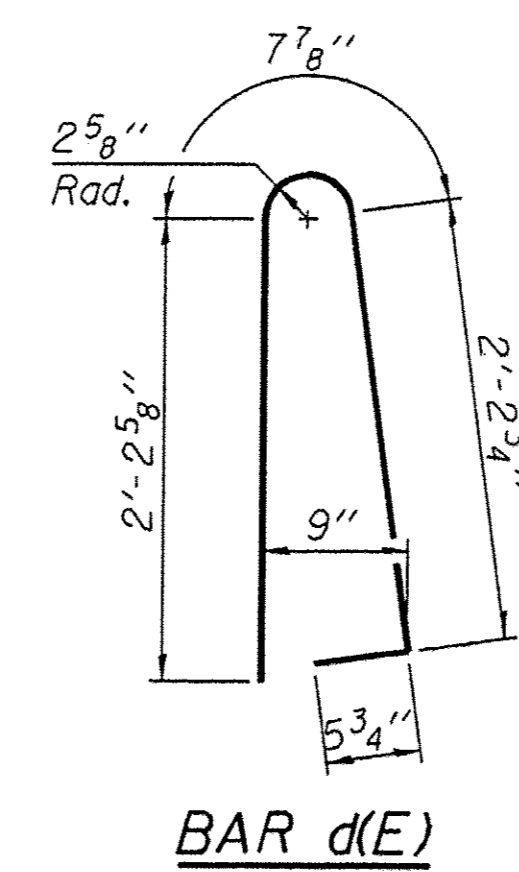
TOP PLAN
(Showing Aluminum Tube)



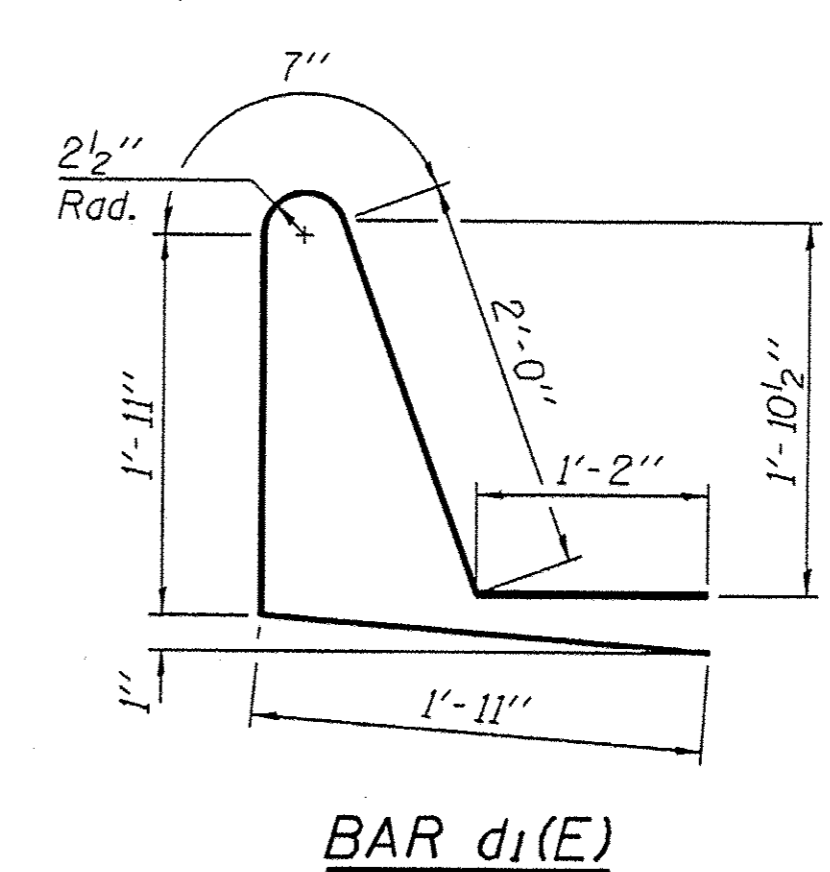
TOP PLAN



SECTION A-A
* Dimension as required by Pipe Clamp



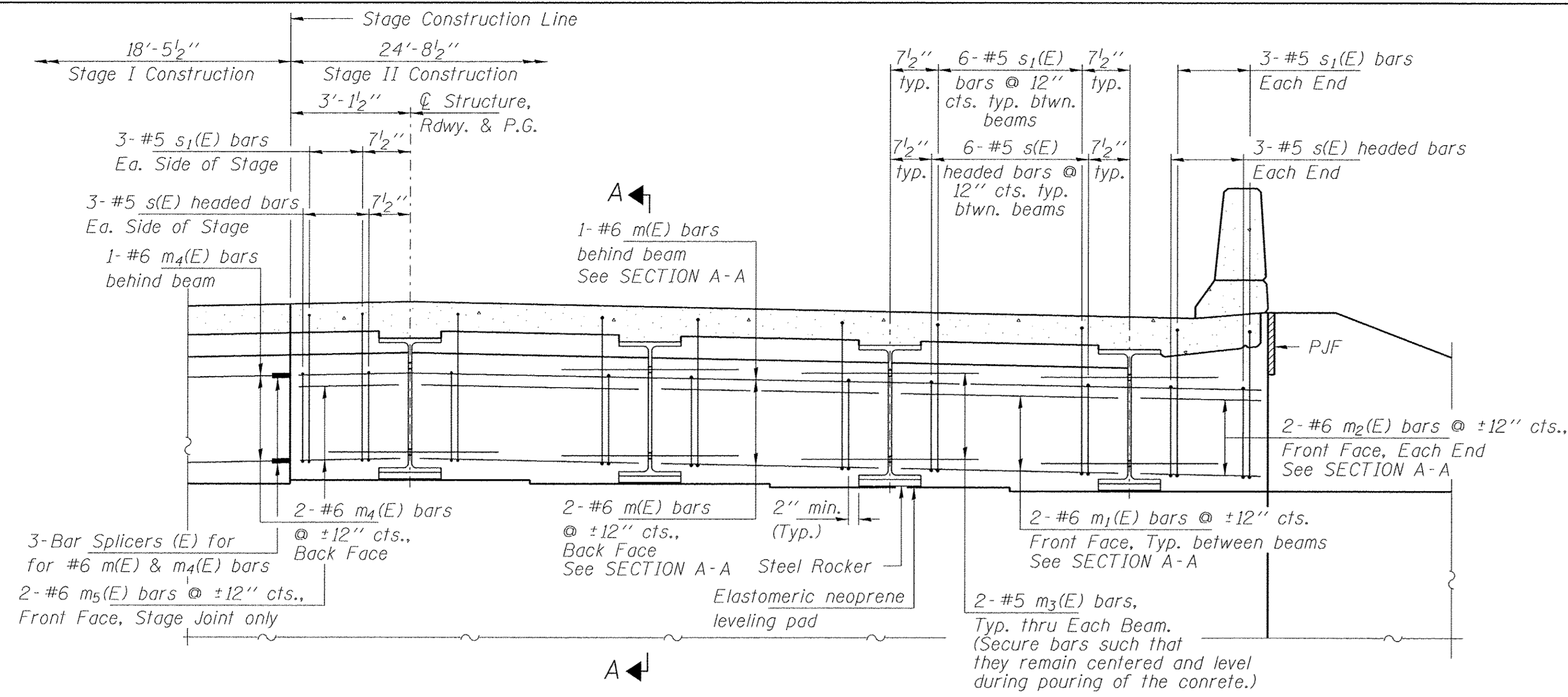
BAR d(E)



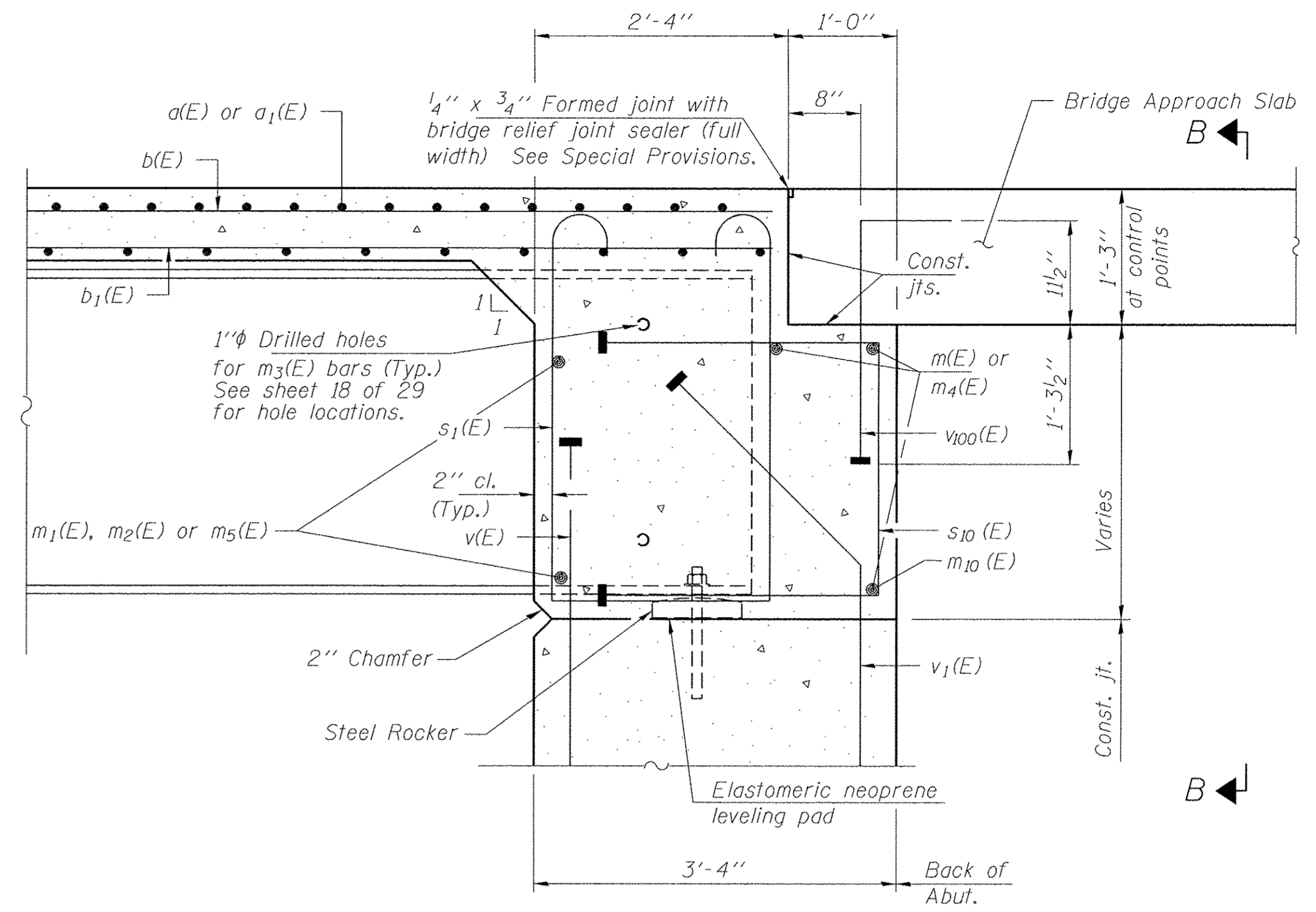
BAR d1(E)

SDI-SB-2

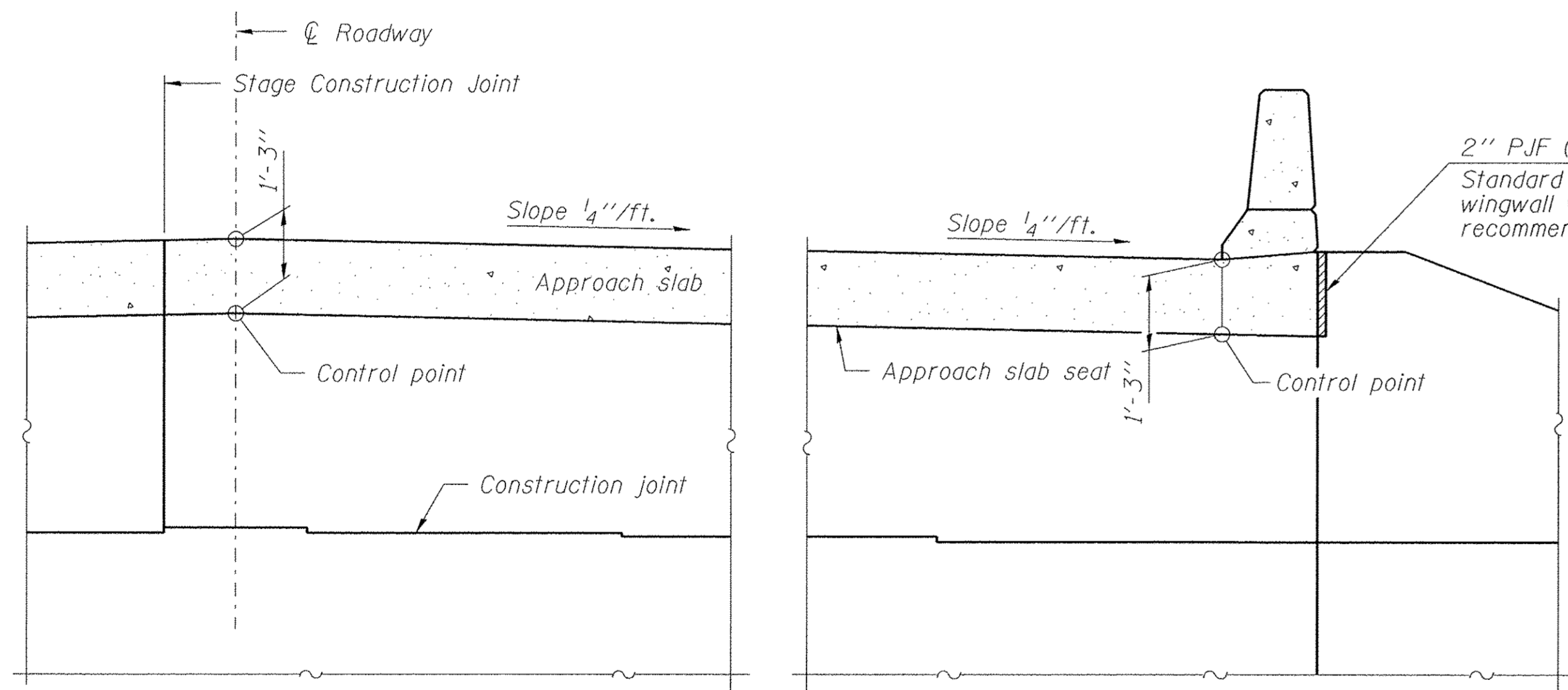
11-22-2016



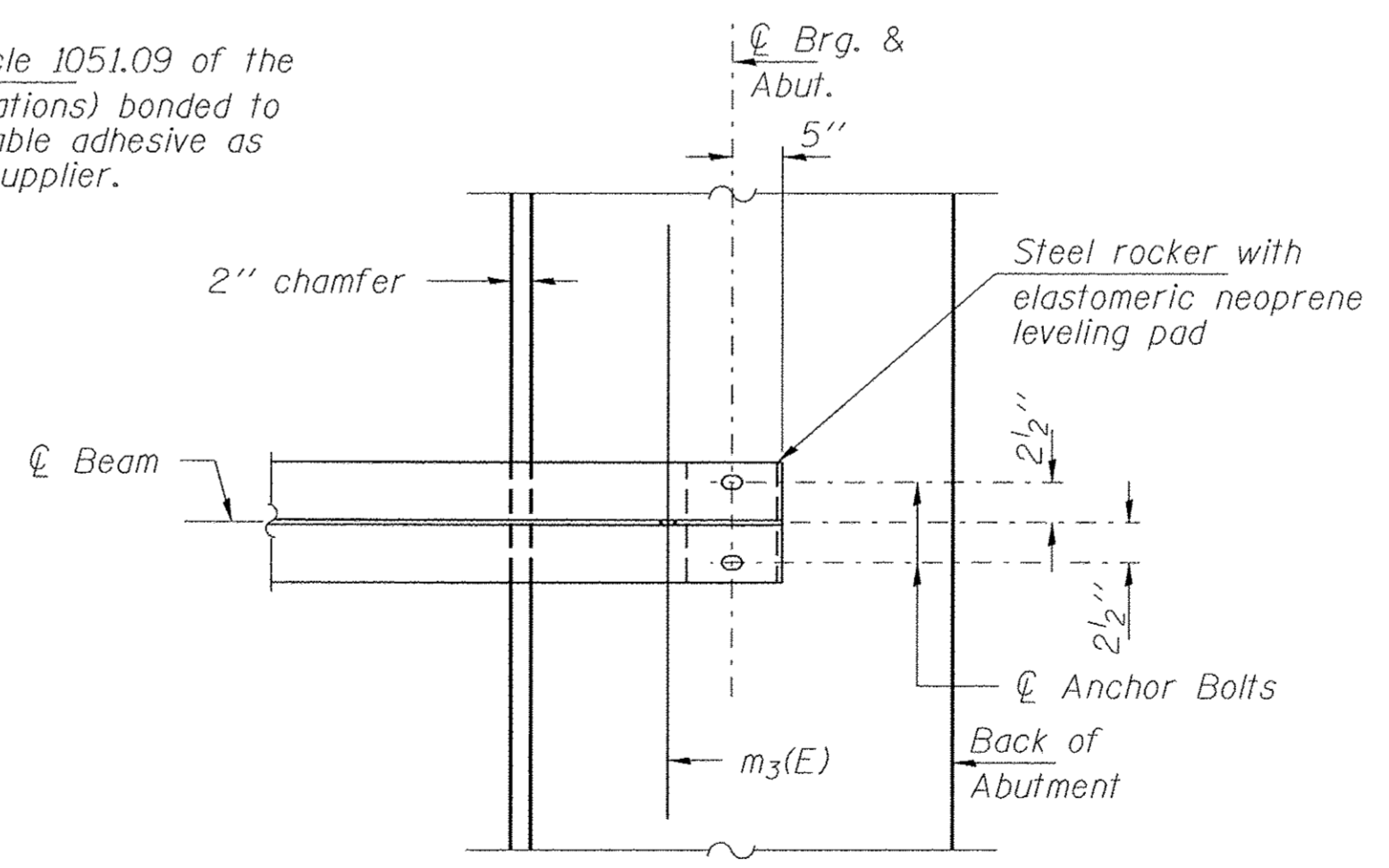
DIAPHRAGM AT ABUTMENT
(Looking South)



SECTION A-A



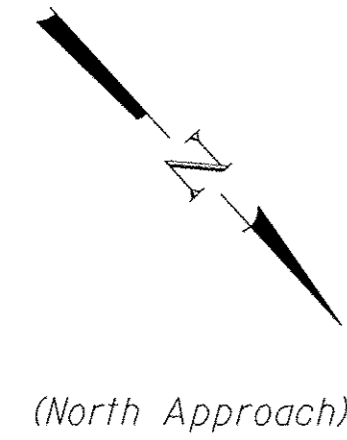
SECTION B-B



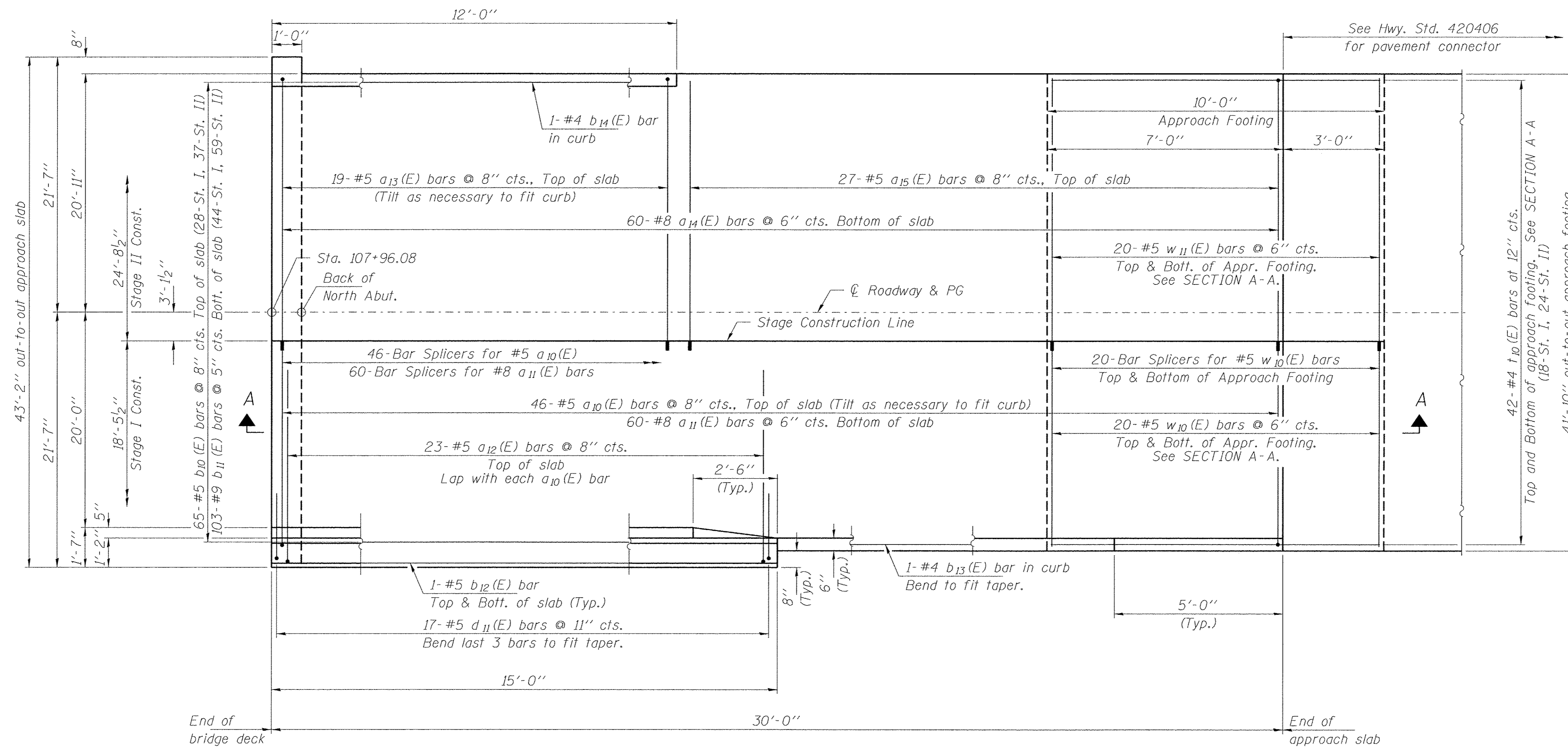
PARTIAL PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
 Reinforcement bars in diaphragm are billed with superstructure on sheet 13 of 29.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 13 of 29.
 For details of bars v(E) and v1(E) see sheet 21 & 22 of 29.
 The approach slab seat shall have a constant slope determined from the control points shown.
 For bearing details see sheet 20 of 29.
 For Bar Splicer details see sheet 24 of 29.
 Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

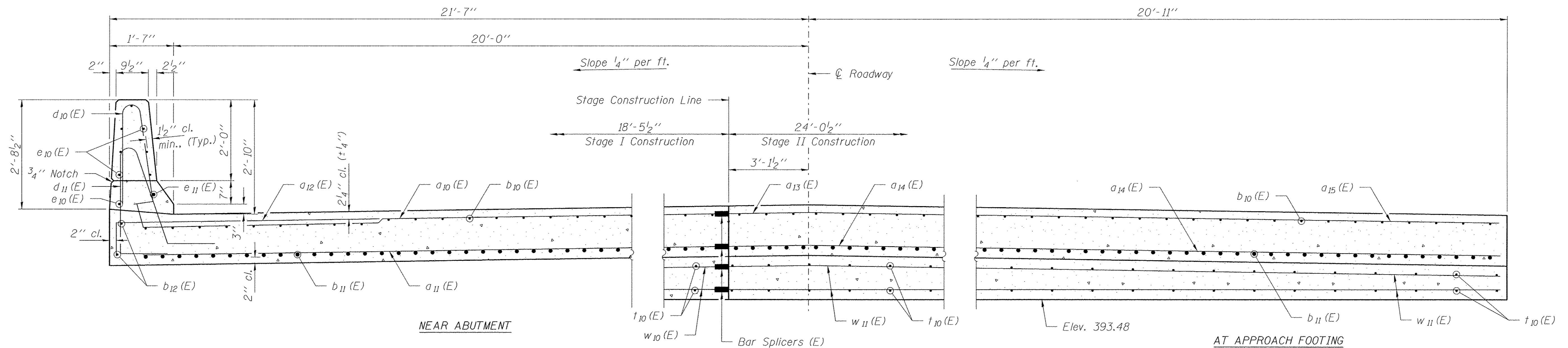
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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L3/P/E/SE CORP. 184-009659	PLOT SCALE = \$SCALE\$	CHECKED - A.E.U.	REVISED -			919	07-00153-00-BR	JACKSON	70	30
PLOT DATE = 12/14/2016	DRAWN - D.A.B.	CHECKED - A.E.U.	REVISED -			GIANT CITY ROAD		CONTRACT NO. 99577		
						SHEET NO. 14 OF 29 SHEETS				



(North Approach)



PLAN



CROSS SECTION
(Looking South)

(Sheet 1 of 3)

FILE NAME = 080348-sht-br1dgc.dgn	USER NAME = \$USER\$
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L3 / P.E. / S.E. CORP. 194.000959	
PLOT SCALE = \$SCALE\$	
PLOT DATE = 12/14/2016	

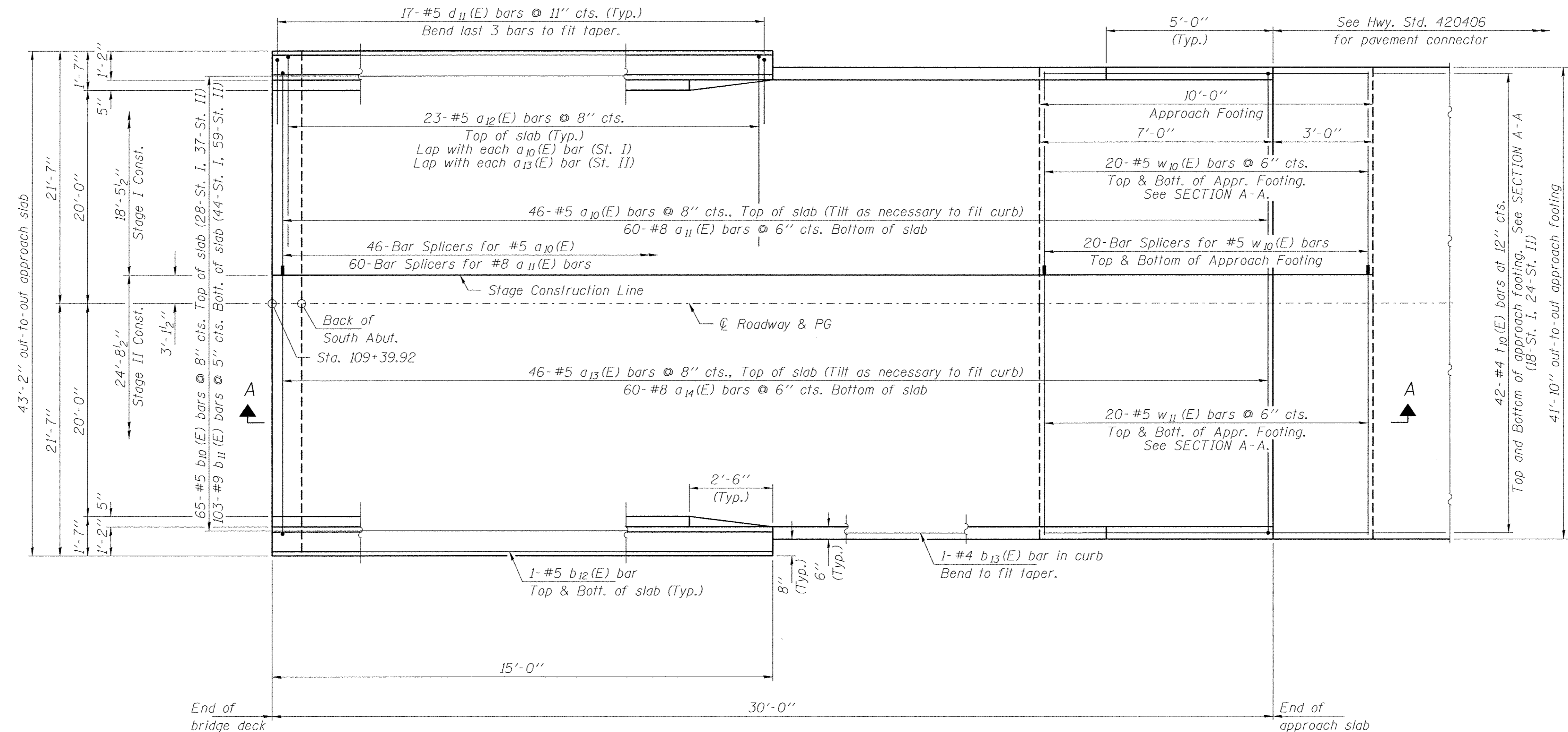
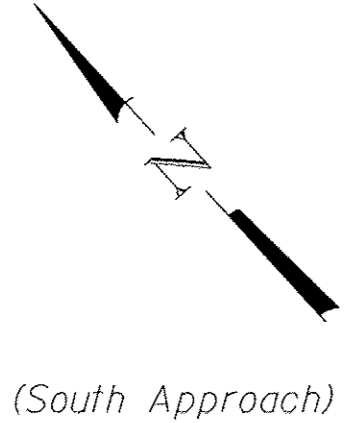
DESIGNED - D.W.T.	REVISED -
CHECKED - A.E.U.	REVISED -
DRAWN - D.A.B.	REVISED -
CHECKED - A.E.U.	REVISED -

STATE OF ILLINOIS
JACKSON COUNTY HIGHWAY DEPARTMENT

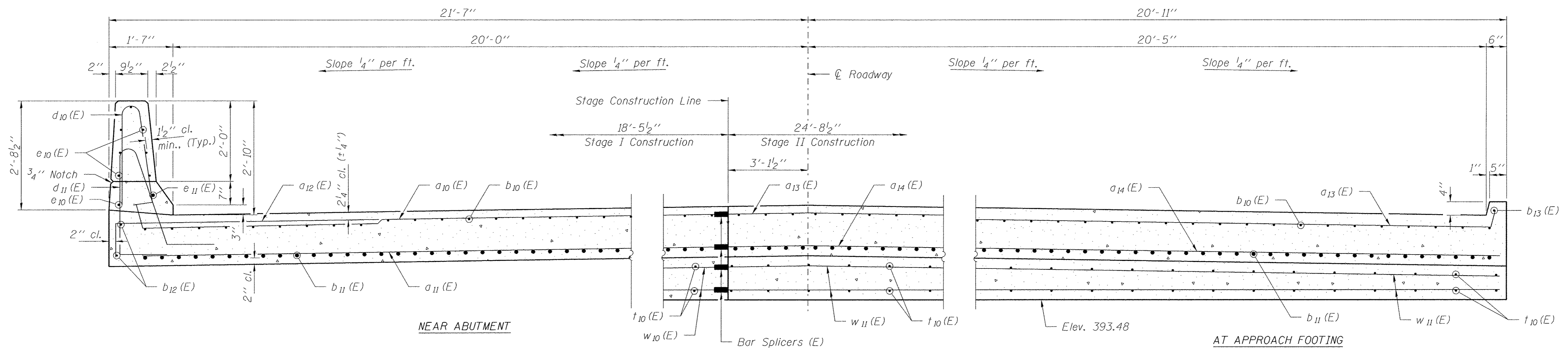
BRIDGE APPROACH SLAB DETAILS - NORTH APPROACH
STRUCTURE NO. 039-3267

SHEET NO. 15 OF 29 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	31
GIANT CITY ROAD			CONTRACT NO. 99577	
ILLINOIS			FED. AID PROJECT BR5-919(11)	



PLAN



CROSS SECTION
(Looking South)

(Sheet 2 of 3)

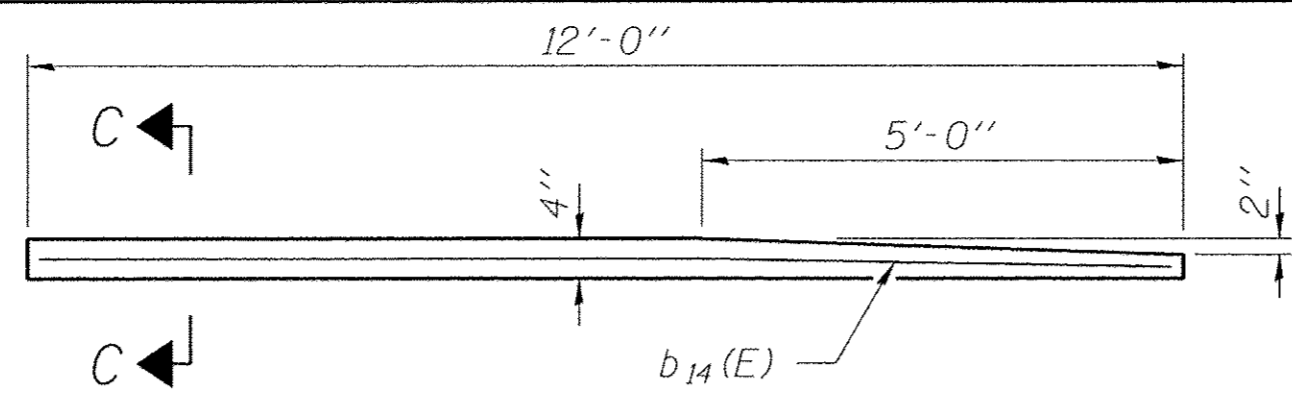
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	PLOT DATE = 12/14/2016

DESIGNED - D.W.T.	REVISED -
CHECKED - A.E.U.	REVISED -
DRAWN - D.A.B.	REVISED -
CHECKED - A.E.U.	REVISED -

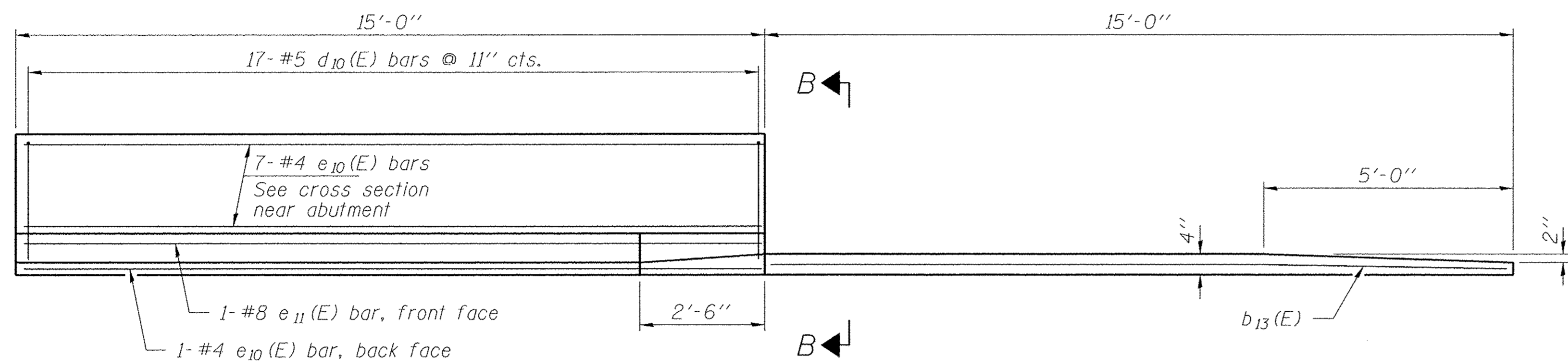
STATE OF ILLINOIS
JACKSON COUNTY HIGHWAY DEPARTMENT

BRIDGE APPROACH SLAB DETAILS - SOUTH APPROACH
STRUCTURE NO. 039-3267

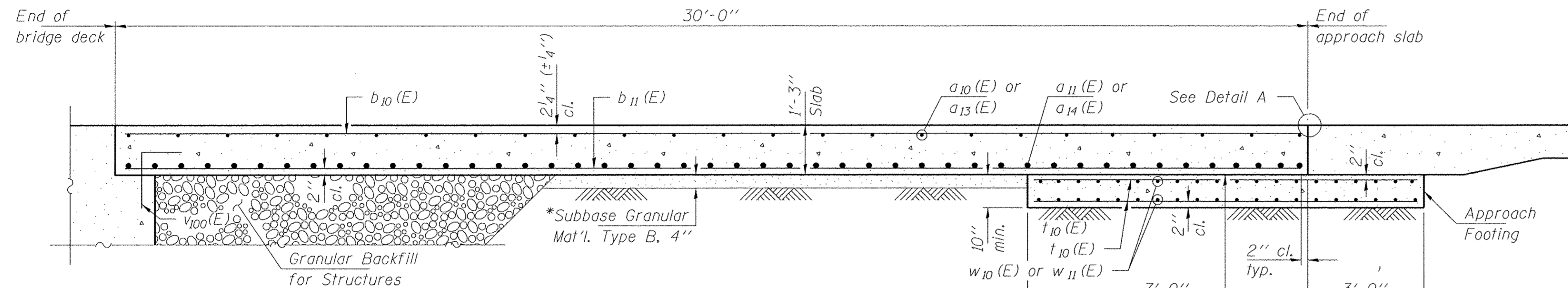
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GIANT CITY ROAD			CONTRACT NO. 99577	
ILLINOIS			FED. AID PROJECT BR5-919(111)	



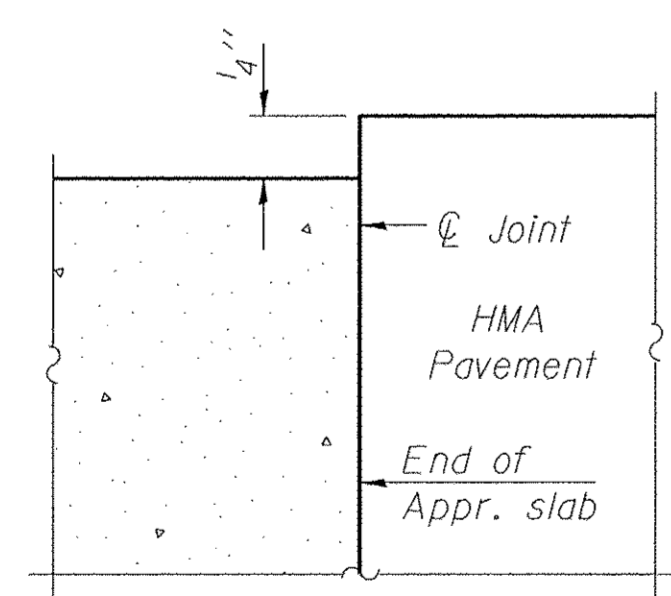
INSIDE ELEVATION OF CURB
(NW corner only)



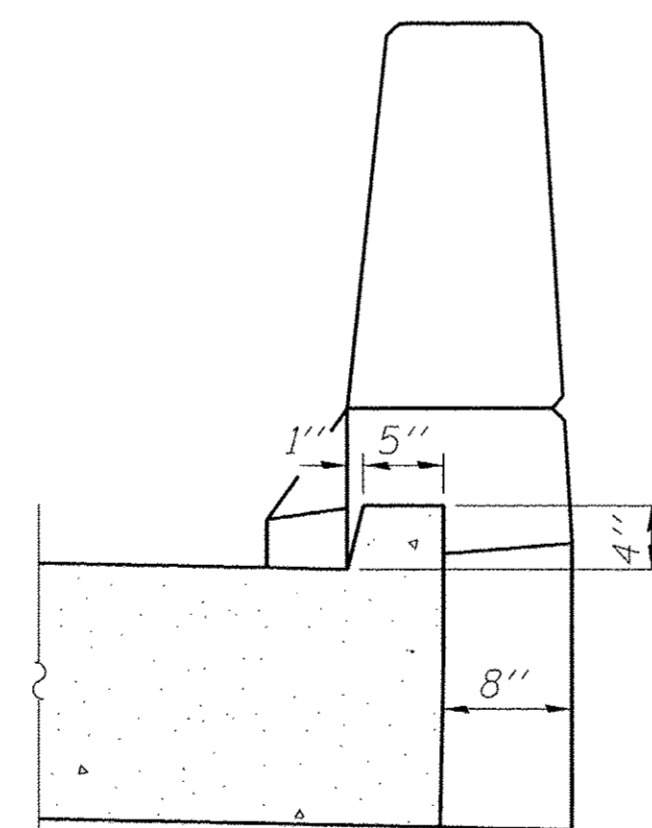
INSIDE ELEVATION OF PARAPET AND CURB
(Typ. except for NW corner)



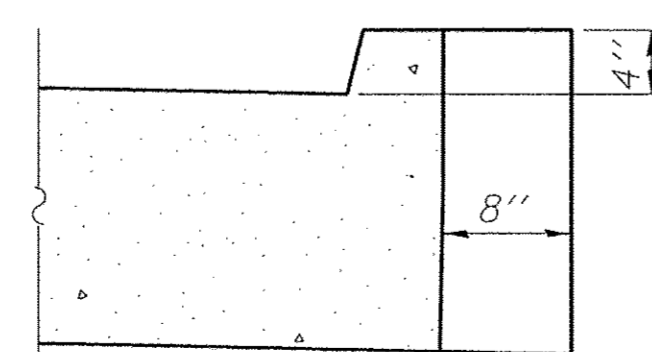
SECTION A-A



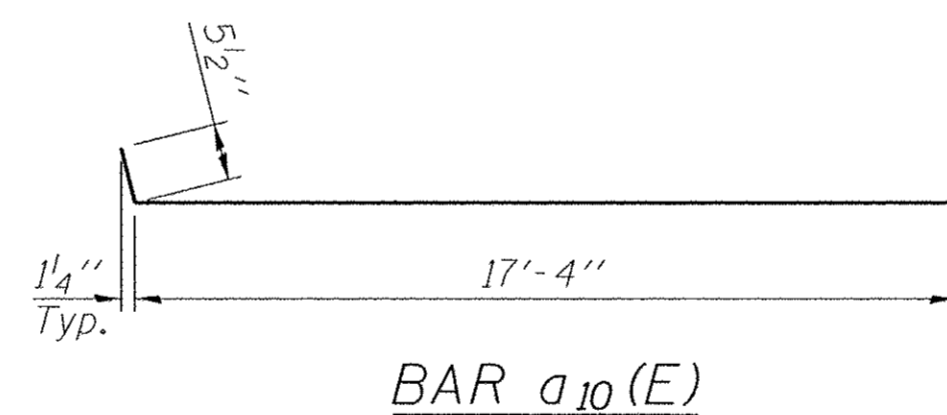
DETAIL A



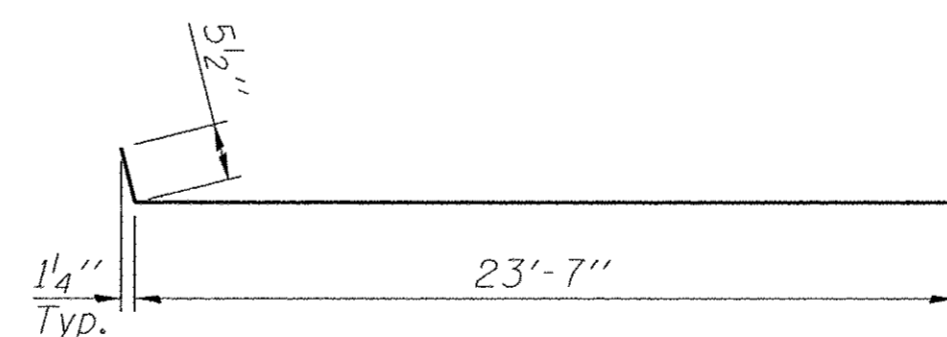
VIEW B-B



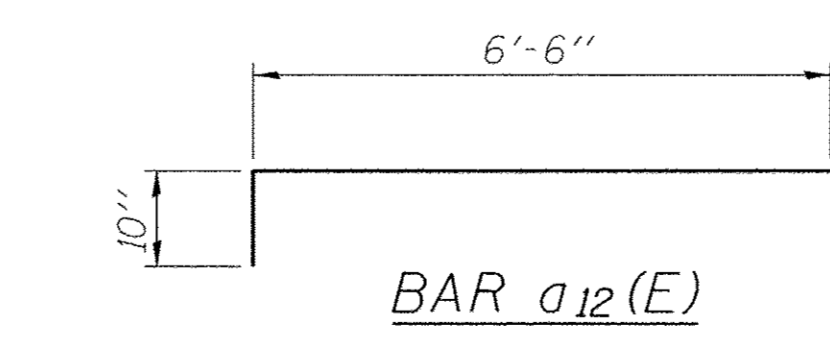
VIEW C-C



BAR a10(E)



BAR a13(E)



BAR a12(E)

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 bridge approach pavement.

Parapet concrete shall be paid for as Concrete Superstructure.

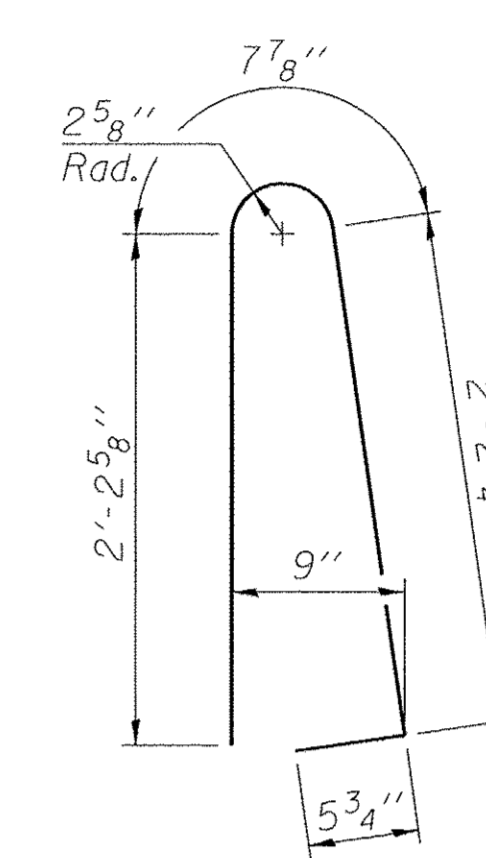
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

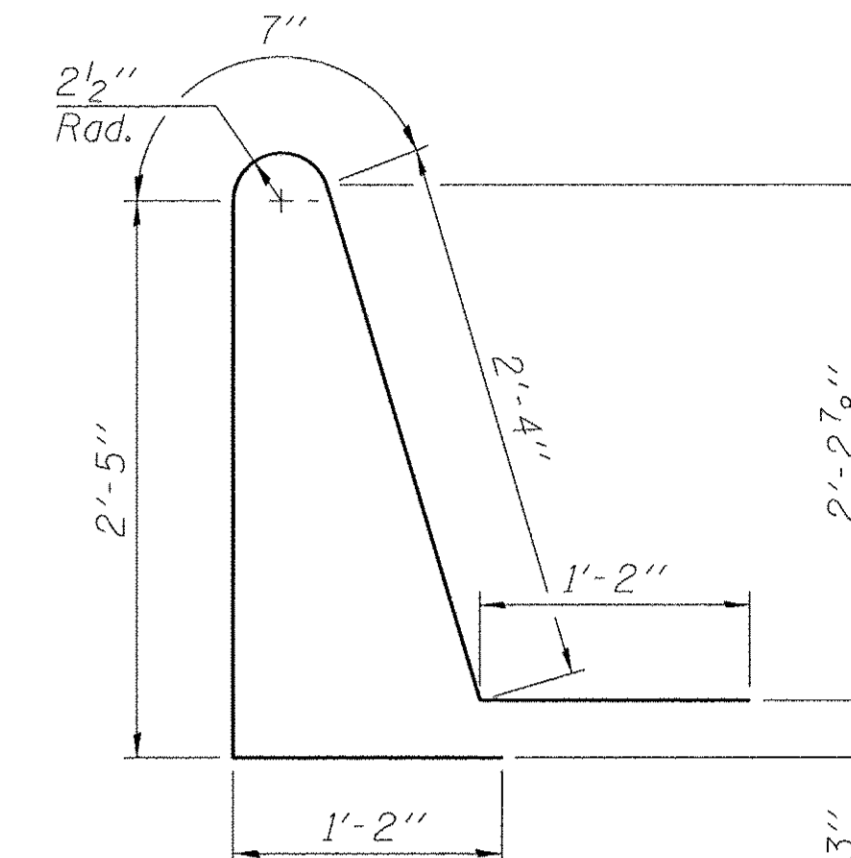
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 29.



BAR d10(E)



BAR d11(E)

NORTH APPROACH
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	46	#5	17'-10"	
a11(E)	60	#8	17'-4"	
a12(E)	23	#5	7'-4"	
a13(E)	19	#5	24'-1"	
a14(E)	60	#8	23'-7"	
a15(E)	27	#5	23'-7"	
b10(E)	65	#5	29'-8"	
b11(E)	103	#9	29'-8"	
b12(E)	4	#5	14'-8"	
b13(E)	2	#4	14'-8"	
b14(E)	1	#4	11'-8"	
d10(E)	17	#5	5'-7"	
d11(E)	17	#5	7'-8"	
e10(E)	8	#4	14'-8"	
e11(E)	1	#8	14'-8"	
t10(E)	84	#4	9'-8"	
w10(E)	40	#5	17'-5"	
w11(E)	40	#5	23'-8"	
Concrete Structures				Cu. Yd. 16.3
Concrete Superstructure				Cu. Yd. 1.7
Bridge Deck Grooving				Sq. Yd. 127
Protective Coat				Sq. Yd. 148
Concrete Superstructure (Approach Slab)				Cu. Yd. 59.1
Reinforcement Bars, Epoxy Coated				Pound 24,300
Bar Splicers				Each 146

SOUTH APPROACH
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	46	#5	17'-10"	
a11(E)	60	#8	17'-4"	
a12(E)	46	#5	7'-4"	
a13(E)	46	#5	24'-1"	
a14(E)	60	#8	23'-7"	
b10(E)	65	#5	29'-8"	
b11(E)	103	#9	29'-8"	
b12(E)	4	#5	14'-8"	
b13(E)	2	#4	14'-8"	
d10(E)	34	#5	5'-7"	
d11(E)	34	#5	7'-8"	
e10(E)	16	#4	14'-8"	
e11(E)	2	#8	14'-8"	
t10(E)	84	#4	9'-8"	
w10(E)	40	#5	17'-5"	
w11(E)	40	#5	23'-8"	
Concrete Structures				Cu. Yd. 16.3
Concrete Superstructure				Cu. Yd. 3.3
Bridge Deck Grooving				Sq. Yd. 127
Protective Coat				Sq. Yd. 148
Concrete Superstructure (Approach Slab)				Cu. Yd. 59.1
Reinforcement Bars, Epoxy Coated				Pound 24,300
Bar Splicers				Each 146

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

(Sheet 3 of 3)

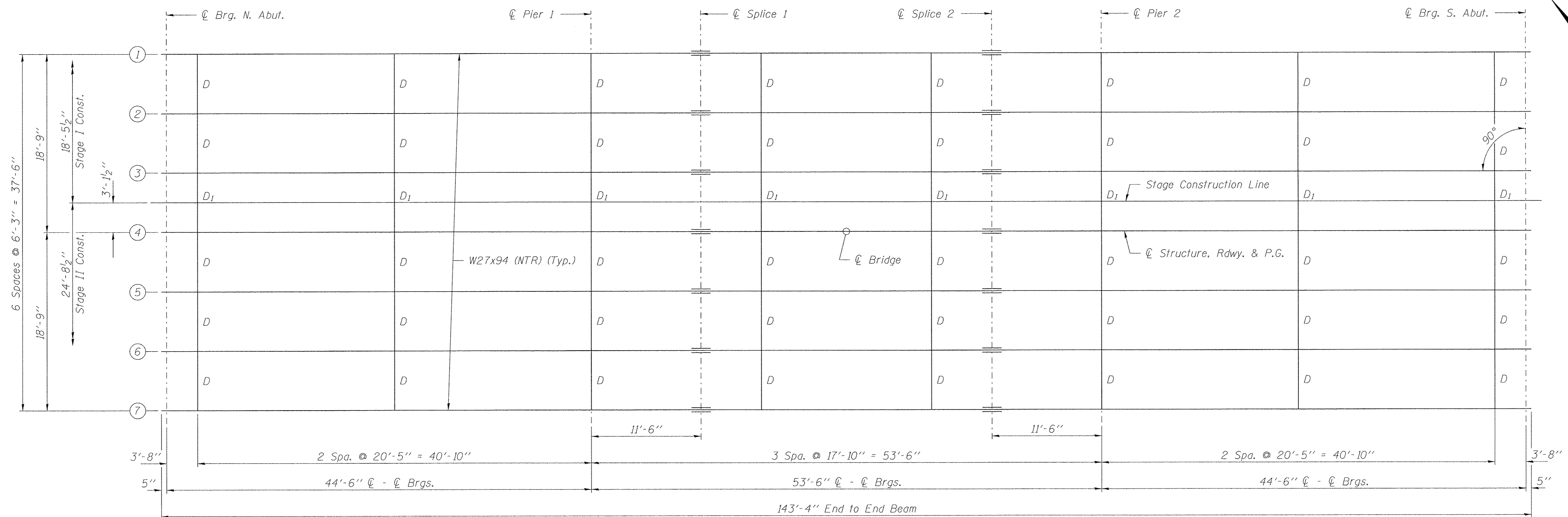
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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM 153 P.E./S.E. CORP. 154-000959	PLOT SCALE = \$SCALE#	CHECKED - A.E.U.	REVISED -
	PLOT DATE = 12/14/2016	DRAWN - D.A.B.	REVISED -
		CHECKED - A.E.U.	REVISED -

STATE OF ILLINOIS
JACKSON COUNTY HIGHWAY DEPARTMENT

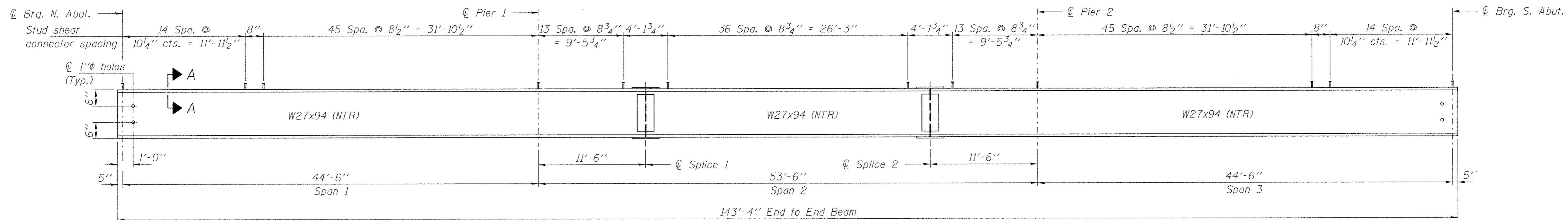
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 039-3267

SHEET NO. 17 OF 29 SHEETS

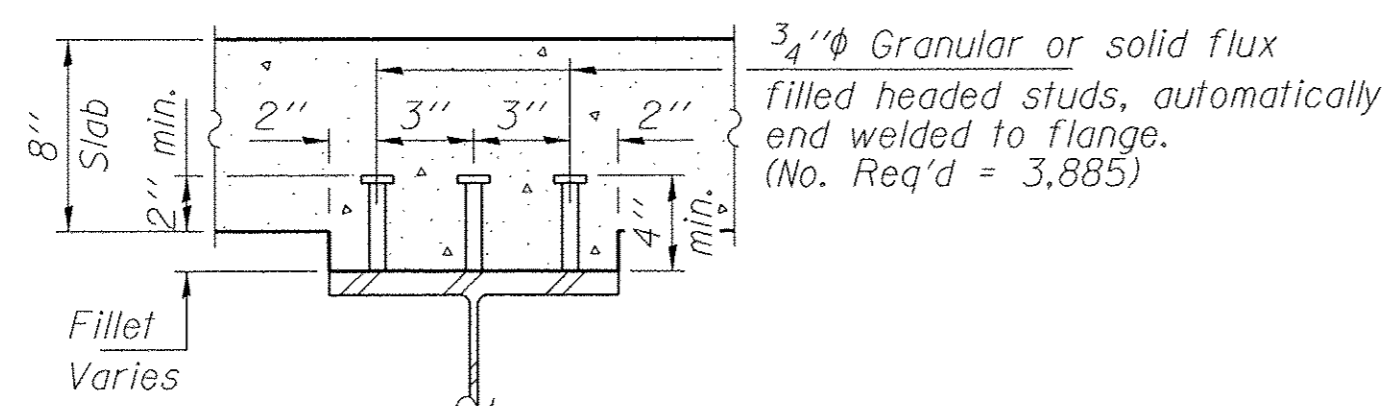
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	33
GIANT CITY ROAD			CONTRACT NO. 99577	
ILLINOIS			FED. AID PROJECT BRS-919(111)	



PLAN



ELEVATION



SECTION A-A

Location	☉ Brg. N. Abut.	☉ Brg. Pier 1	☉ Splice 1	☉ Splice 2	☉ Brg. Pier 2	☉ Brg. S. Abut.
BEAM 1	394.86	394.86	394.86	394.86	394.86	394.86
BEAM 2	394.99	394.99	394.99	394.99	394.99	394.99
BEAM 3	395.12	395.12	395.12	395.12	395.12	395.12
BEAM 4	395.25	395.25	395.25	395.25	395.25	395.25
BEAM 5	395.12	395.12	395.12	395.12	395.12	395.12
BEAM 6	394.99	394.99	394.99	394.99	394.99	394.99
BEAM 7	394.86	394.86	394.86	394.86	394.86	394.86

TOP OF BEAM ELEVATIONS

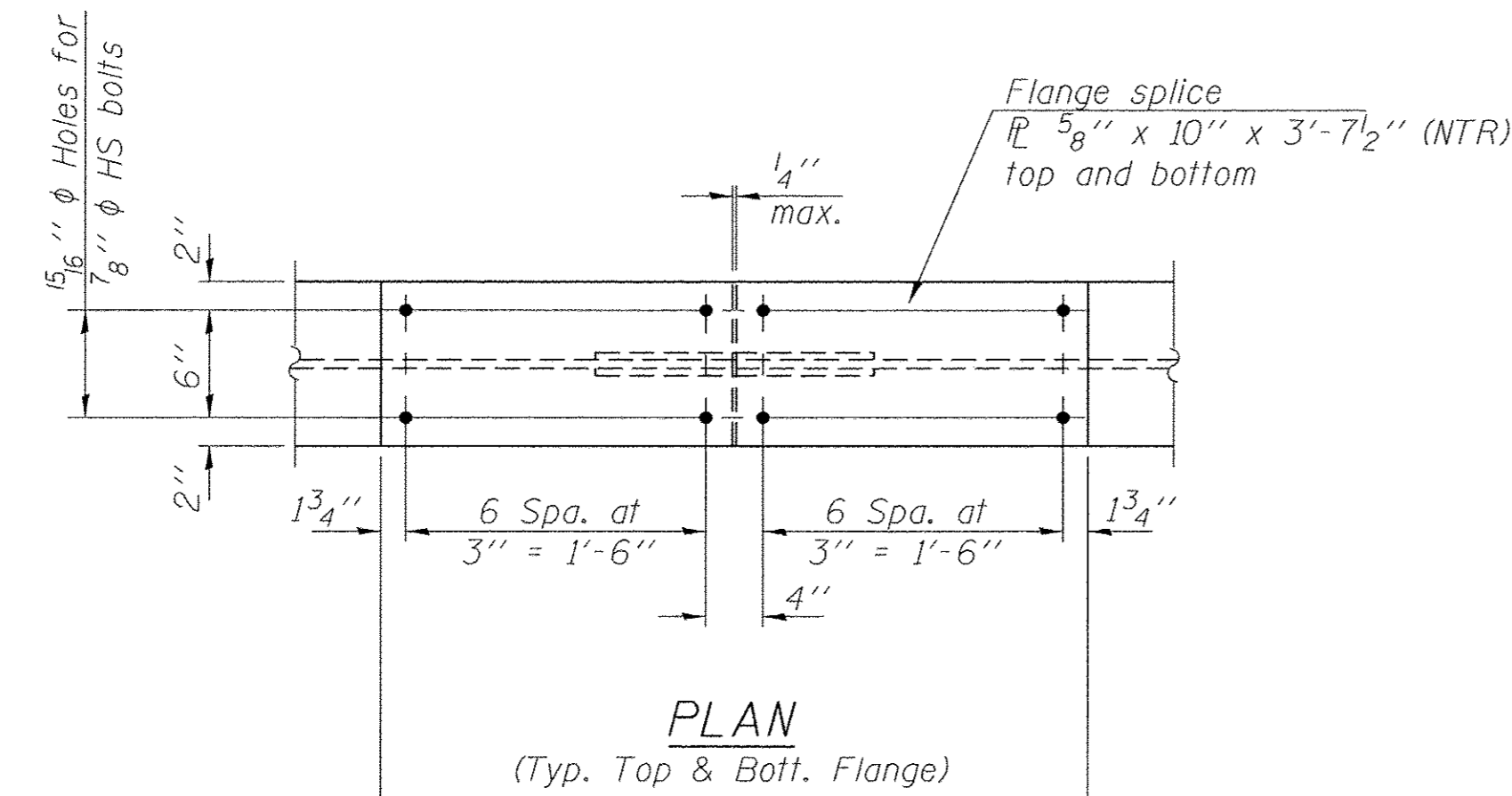
(For Fabrication only)
(Does not include Dead Load Deflections)

Notes:
Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
All beams and splices shall be AASHTO M270 Grade 50W.
All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
For Structural Steel Details see sheet 19 of 29.

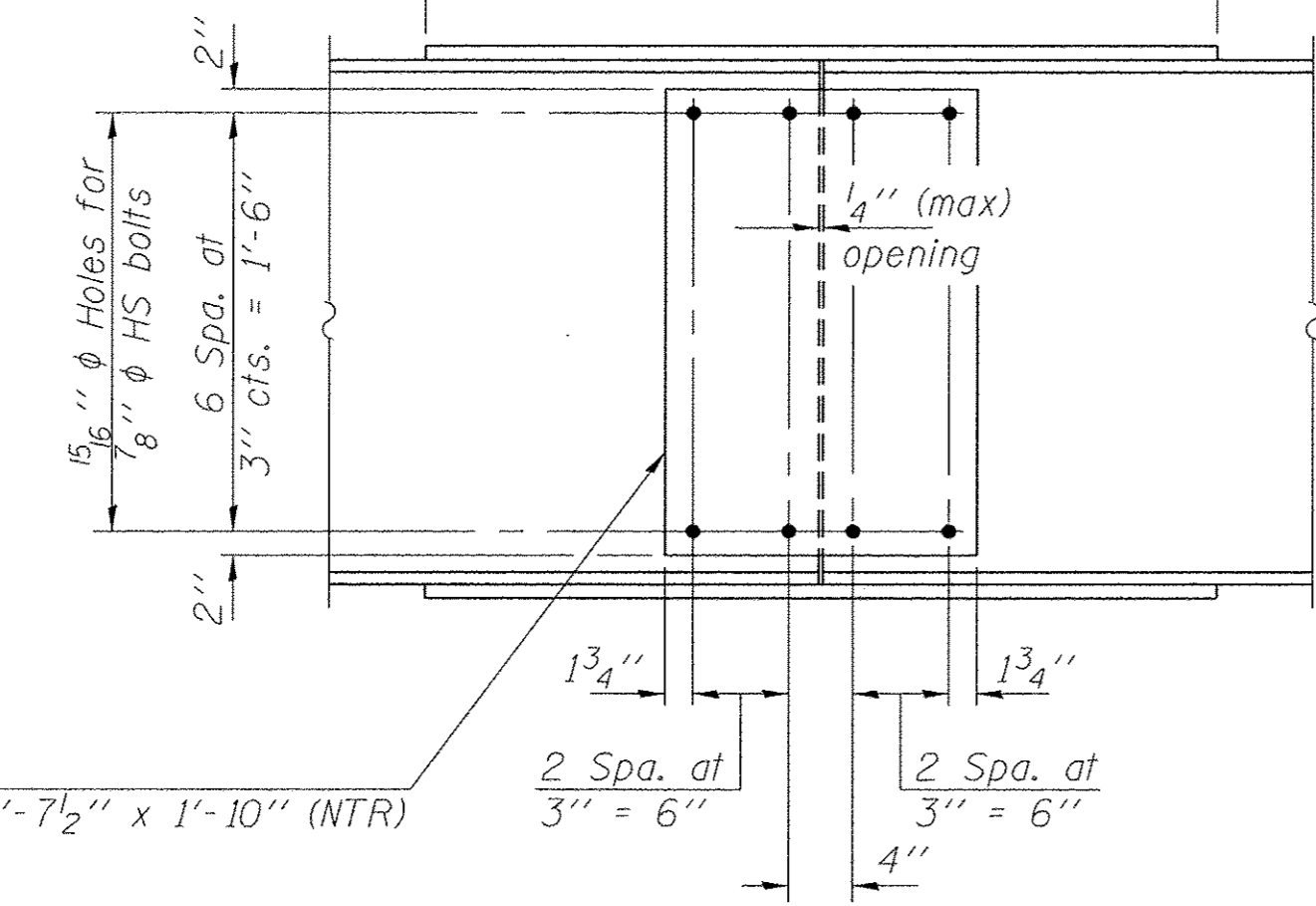


SECTION A-A

SECTION B-B



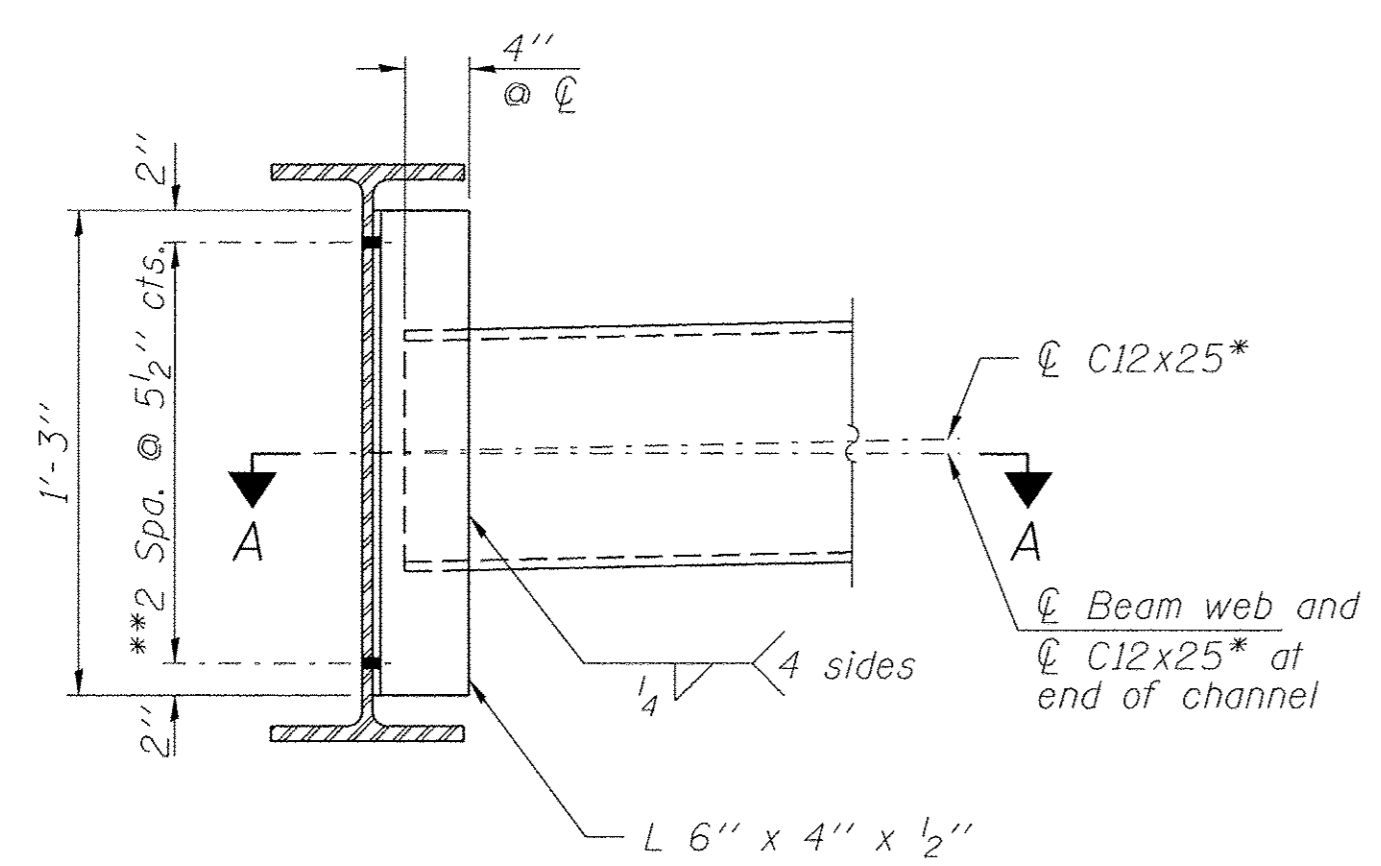
PLAN
(Typ. Top & Bott. Flange)



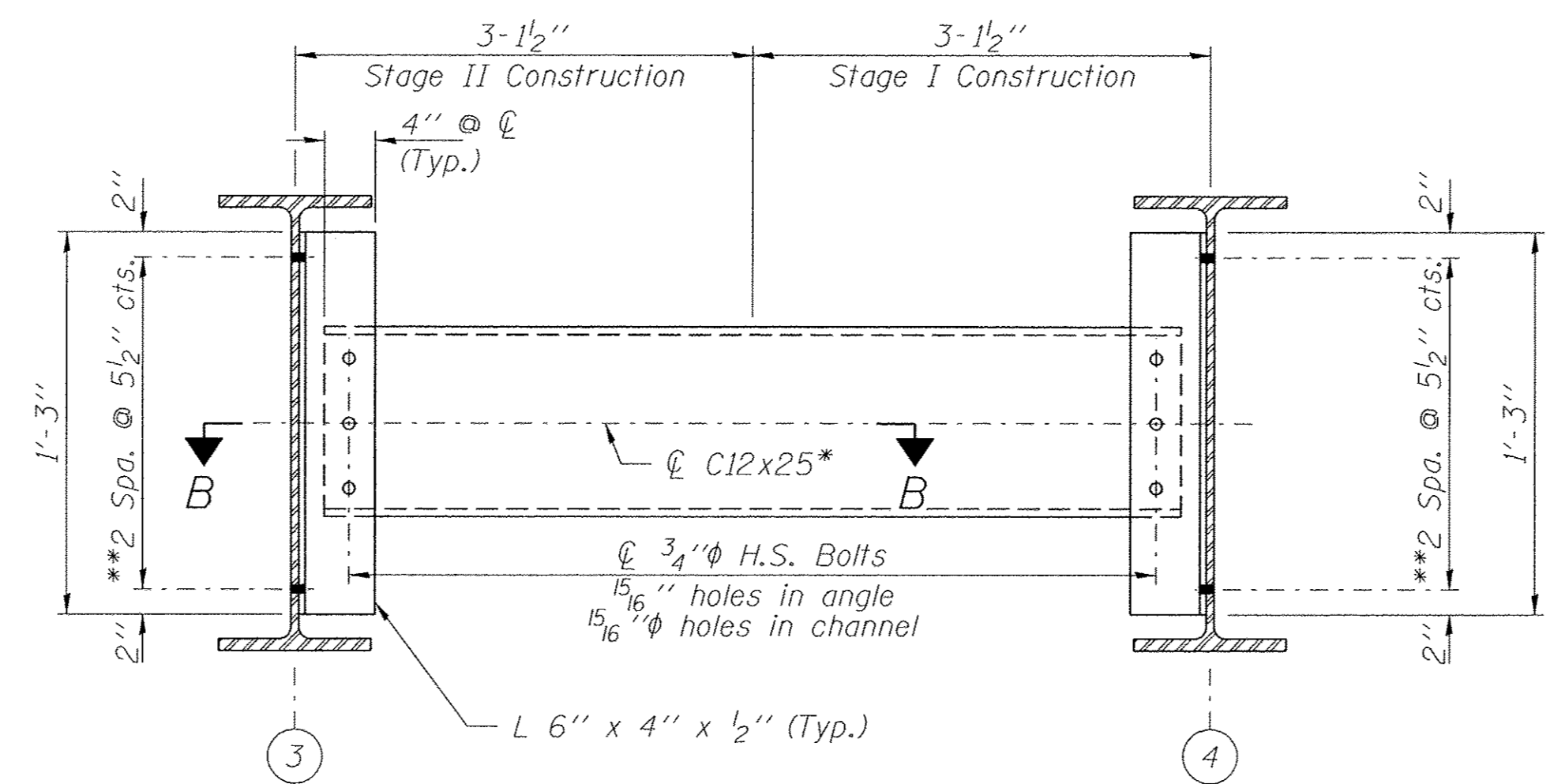
ELEVATION

SPLICE 1 & 2 DETAIL
(14 Required)

Web splice
L 3/8" x 1'-7 1/2" x 1'-10" (NTR)
each side



INTERIOR DIAPHRAGM D
(40 Required)



INTERIOR DIAPHRAGM D1
(8 Required)

INTERIOR GIRDER MOMENT TABLE				
		0.4 Sp. 1 or 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. 2
I_s	(in ⁴)	3,270	3,270	3,270
$I_c(n)$	(in ⁴)	9,829	9,829	9,829
$I_c(3n)$	(in ⁴)	7,405	7,405	7,405
$I_c(cr)$	(in ⁴)	4,221	4,882	4,221
S_s	(in ³)	243	243	243
$S_c(n)$	(in ³)	375	375	375
$S_c(3n)$	(in ³)	341	341	341
$S_c(cr)$	(in ³)	273	291	273
DC1	(k/')	0.75	0.75	0.75
M _{DC1}	(k)	105	180	87
DC2	(k/')	0.13	0.13	0.13
M _{DC2}	(k)	19	32	15
DW	(k/')	0.32	0.32	0.32
M _{DW}	(k)	45	76	37
LLDF		0.611	0.601	0.592
M _{ℓ + IM}	(k)	424	334	409
M _u (Strength I)	(k)	965	964	899
φ _r M _n	(k)	1,928	-	1,947
f _s DC1	(ksi)	5.2	8.9	4.3
f _s DC2	(ksi)	0.7	1.1	0.5
f _s DW	(ksi)	1.6	2.7	1.3
f _s (ℓ + IM)	(ksi)	13.6	10.7	13.1
f _s (Service II)	(ksi)	25.1	26.6	23.1
0.95R _h F _{yf}	(ksi)	47.5	47.5	47.5
f _s (Total)(Strength I)	(ksi)	-	35.3	-
φ _r F _n	(ksi)	-	-	-
V _r	(k)	20.8	19.0	22.2

INTERIOR GIRDER REACTION TABLE		
	Abut.	Pier 1 or 2
LLDF	0.689	0.689
OCF	-	-
R _{DC1}	(k) 12.6	40.5
R _{DC2}	(k) 2.2	7.0
R _{DW}	(k) 5.3	17.1
R _ℓ	(k) 46.1	72.4
R _{IM}	(k) 12.3	15.4
R _{Total}	(k) 78.5	152.4

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).

$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) due to short-term composite live loads (in⁴ and in³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in⁴ and in³).

DC1: Un-factored non-composite dead load (kips/ft.).

M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{ℓ + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).

1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{ℓ + IM}

φ_rM_n: 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.).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).

M_{DC1} / S_{nc}

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).

M_{DC2} / S_{c(3n)} or M_{DC2} / S_{c(cr)} as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).

M_{DW} / S_{c(3n)} or M_{DW} / S_{c(cr)} as applicable.

f_s (ℓ + IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).

M_{ℓ + IM} / S_{c(n)} or M_{ℓ + IM} / S_{c(cr)} as applicable.

f_s (Service II): Sum of stresses as computed below (ksi).

f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s (ℓ + IM)

0.95R_hF_{yf}: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).

1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s (ℓ + IM)

φ_rF_n: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

V_r: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

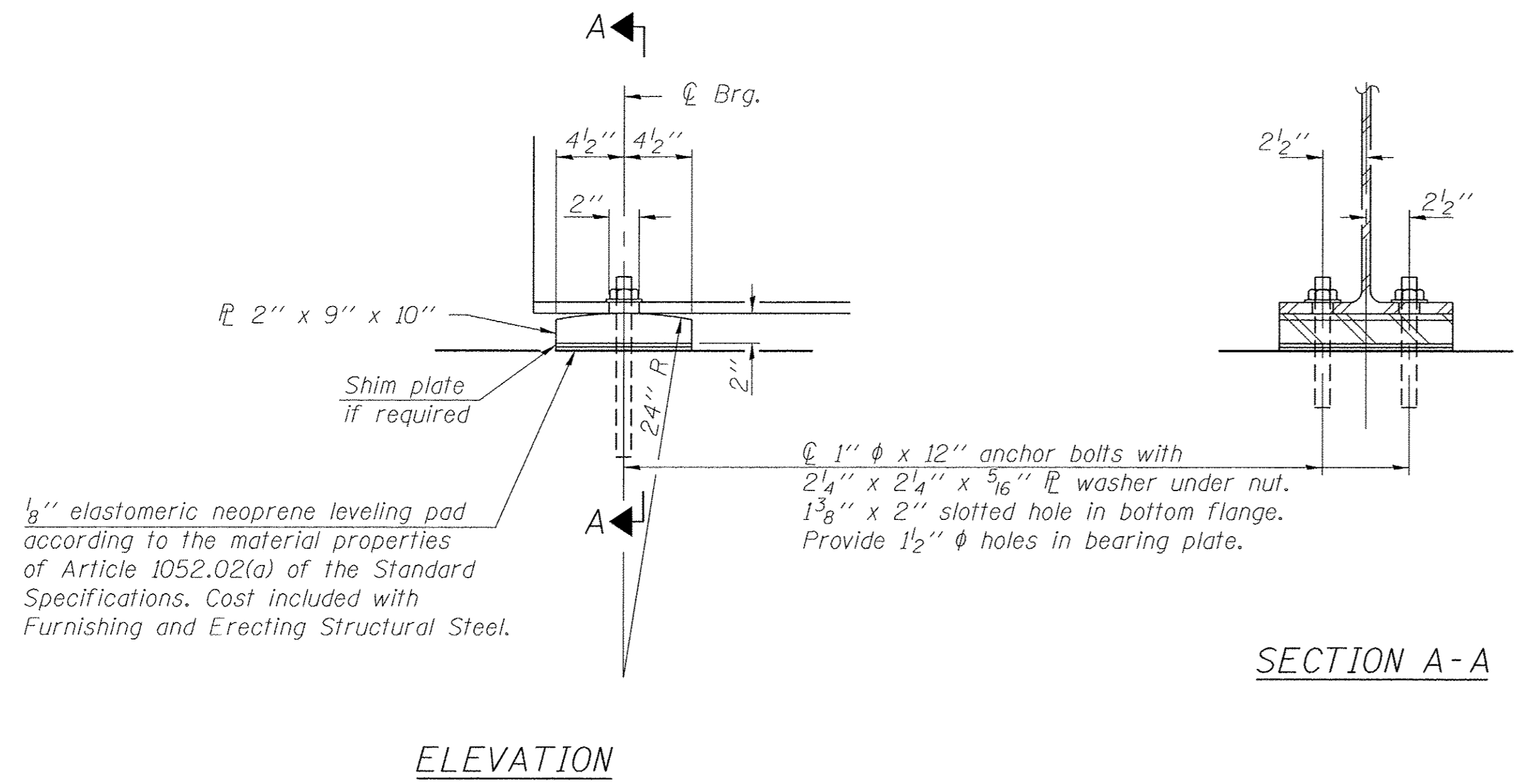
Notes:

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

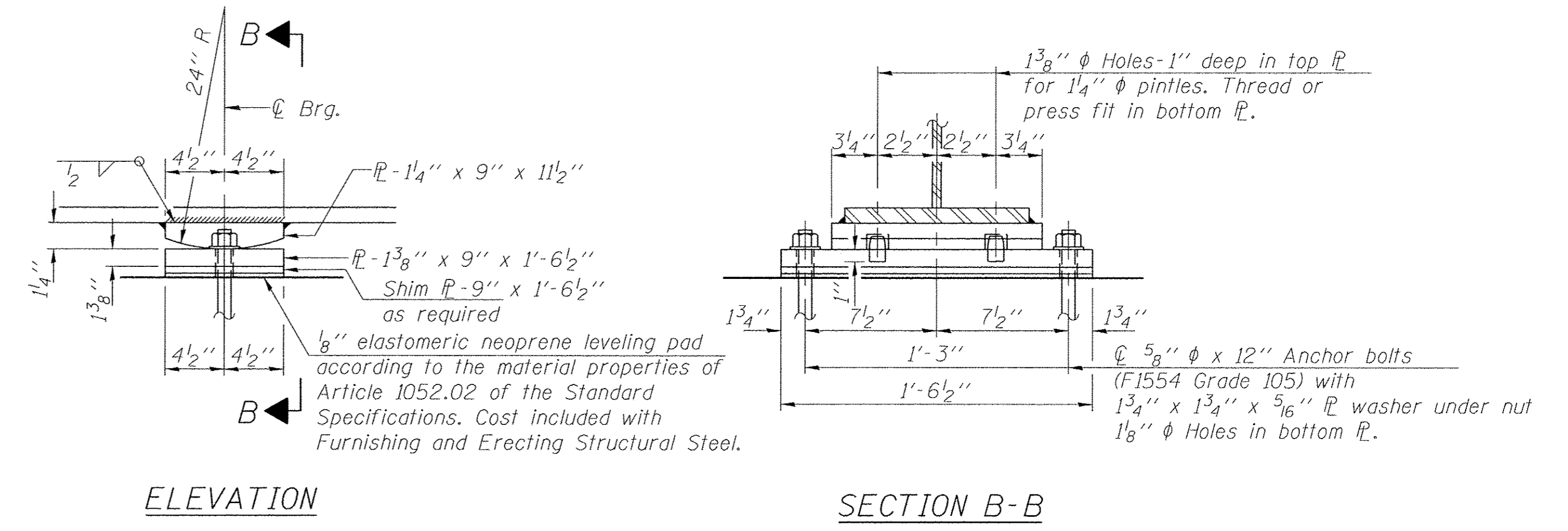
All beams and splices shall be AASHTO M270 Grade 50W.

*Alternate channels (C12X30) are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized, shall be provided at no additional cost to the Department.

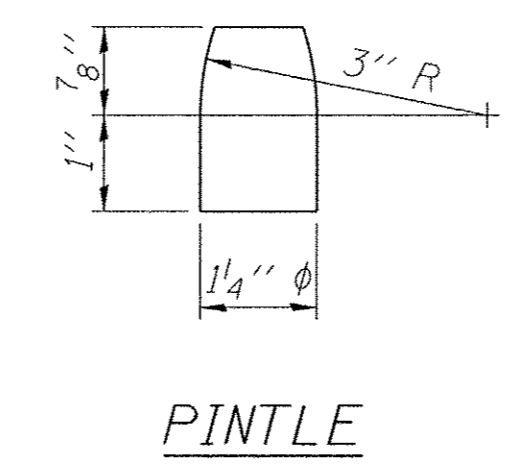
**3/4" φ HS bolts, 15/16" φ holes.



FIXED BEARING AT ABUTMENT
(14 required)



FIXED BEARING AT PIER
(14 required)

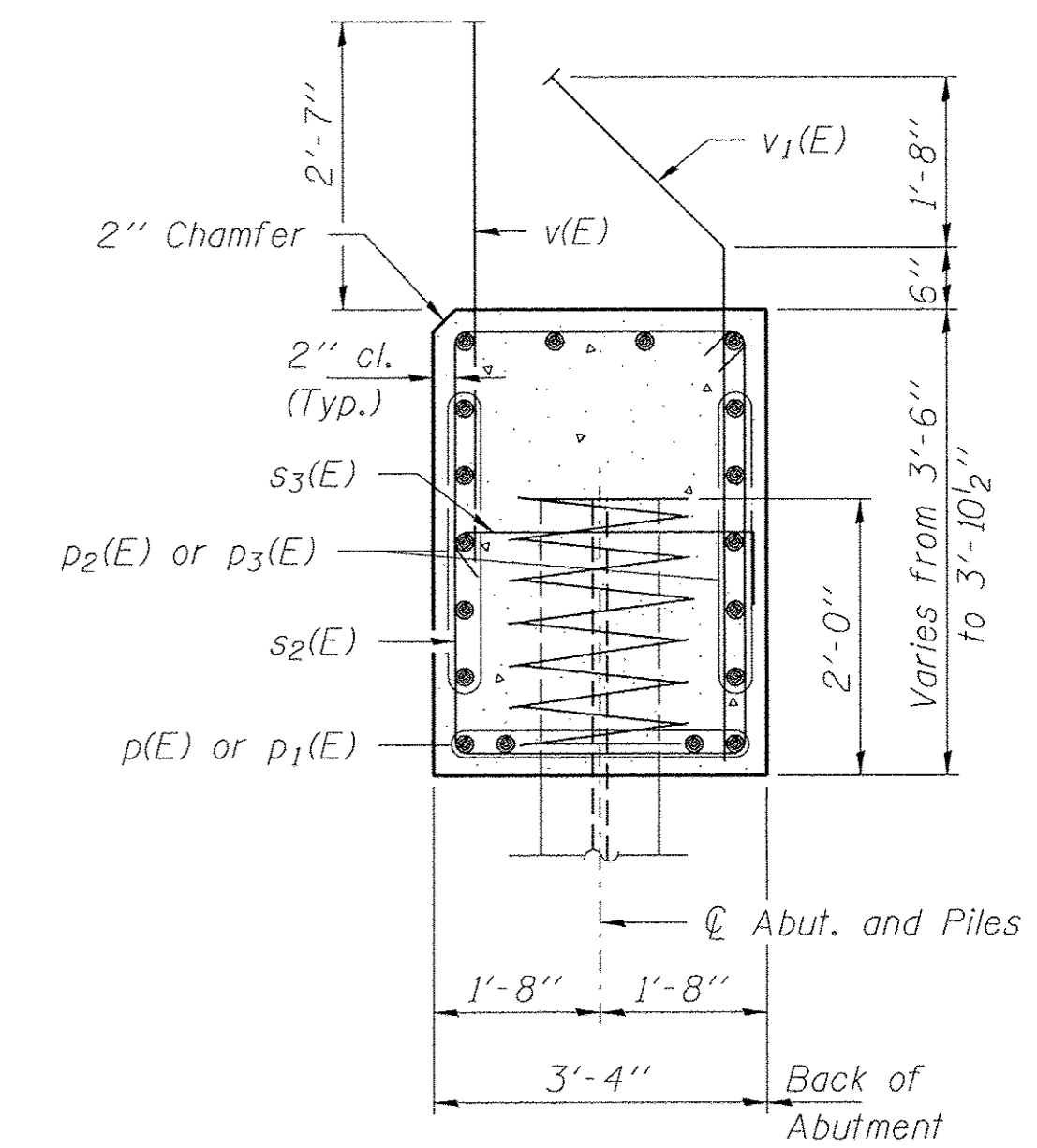
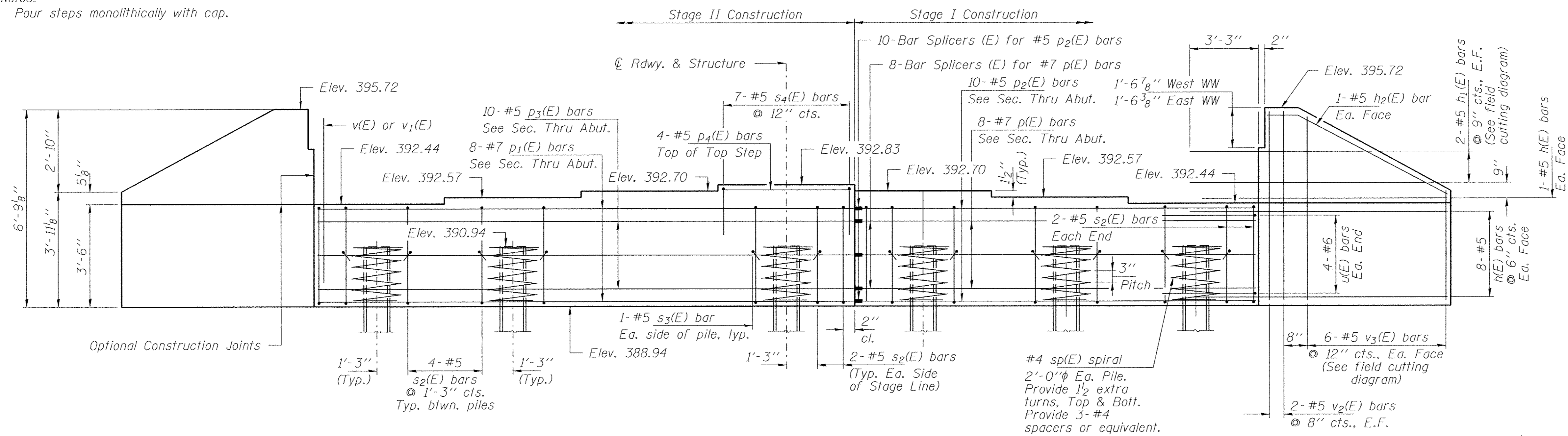


Notes:
 Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
 Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
 The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade bolts will not be allowed.
 All structural steel for the fixed bearings including plate material and pintles shall be AASHTO M270 Grade 50W except shim plates.

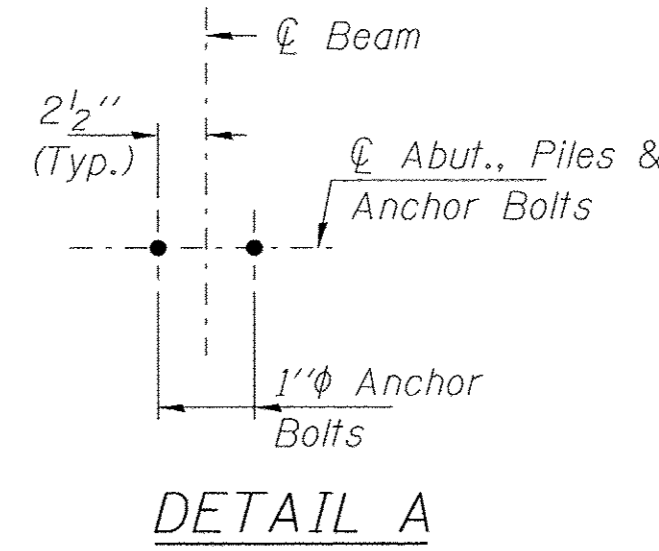
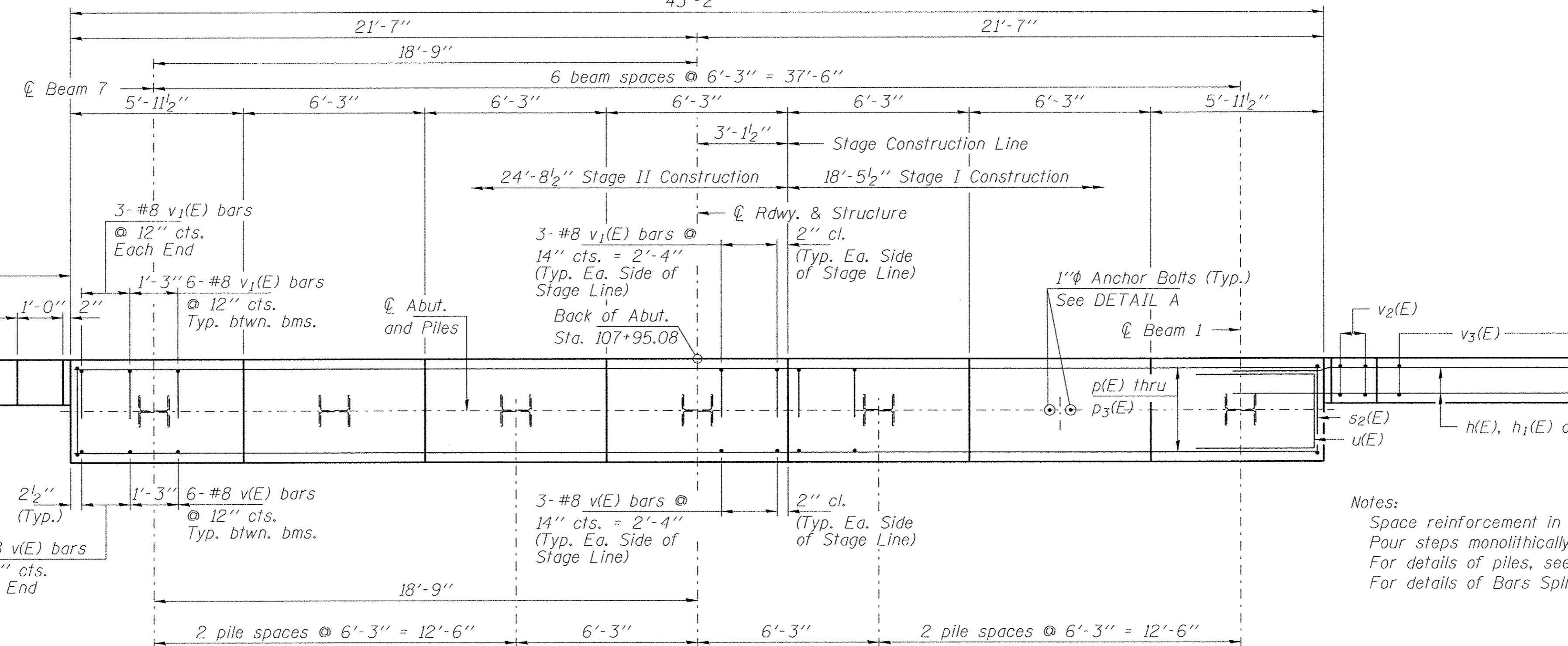
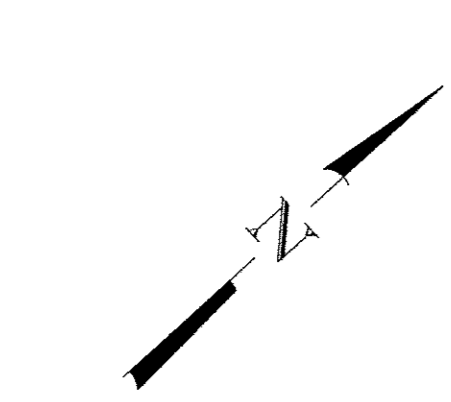
BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 5/8"	Each	28
Anchor Bolts, 1"	Each	28

Notes:
Pour steps monolithically with cap.



ELEVATION



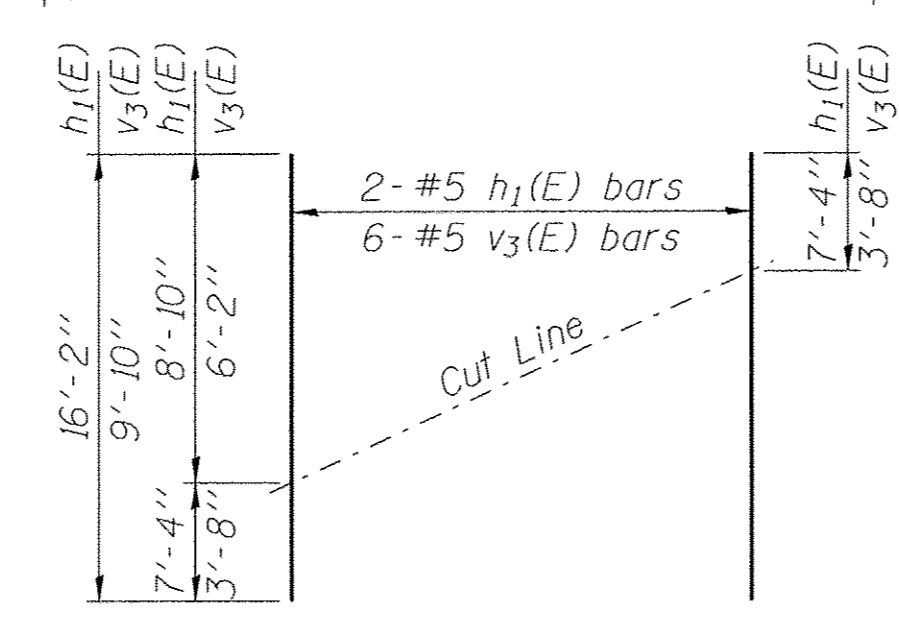
SEC. THRU ABUT.

NORTH ABUTMENT
BILL OF MATERIAL

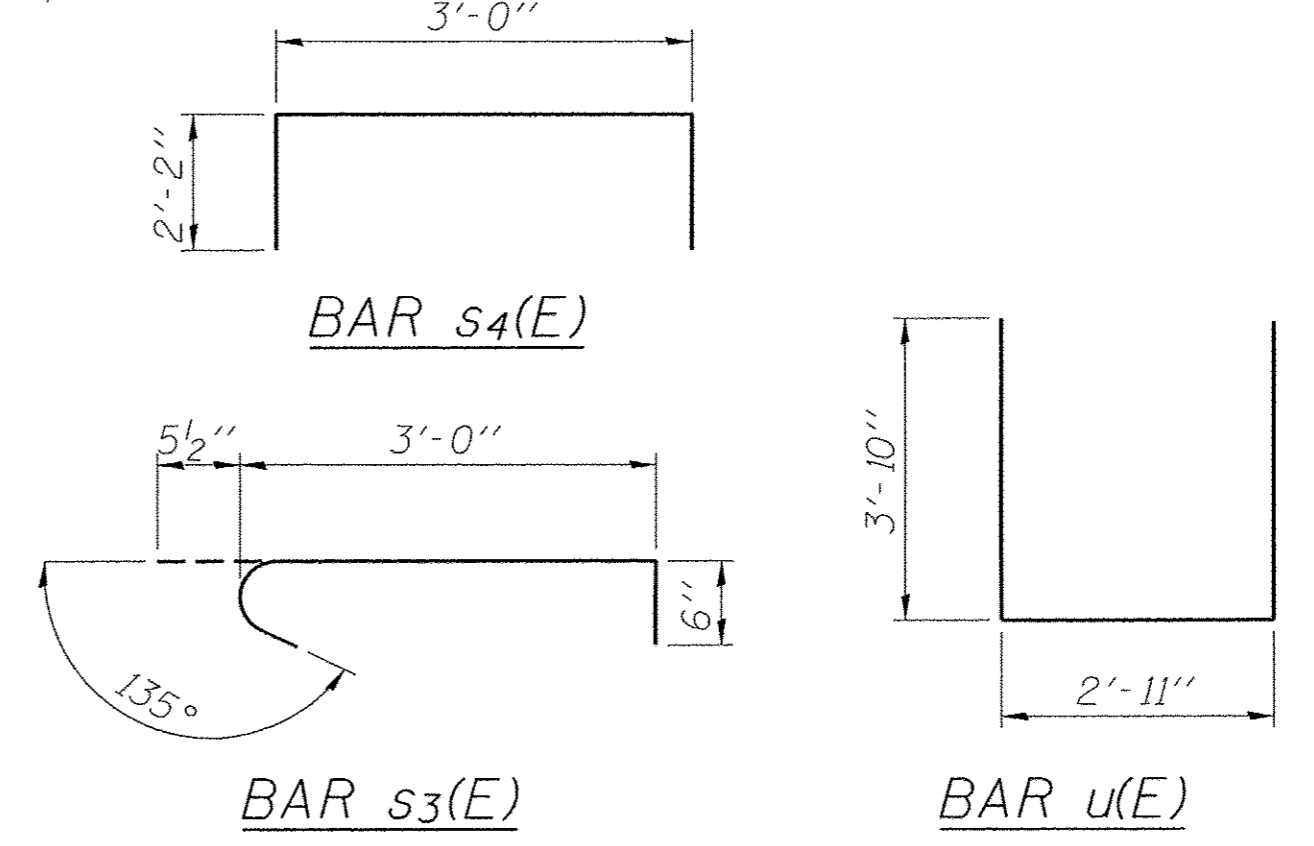
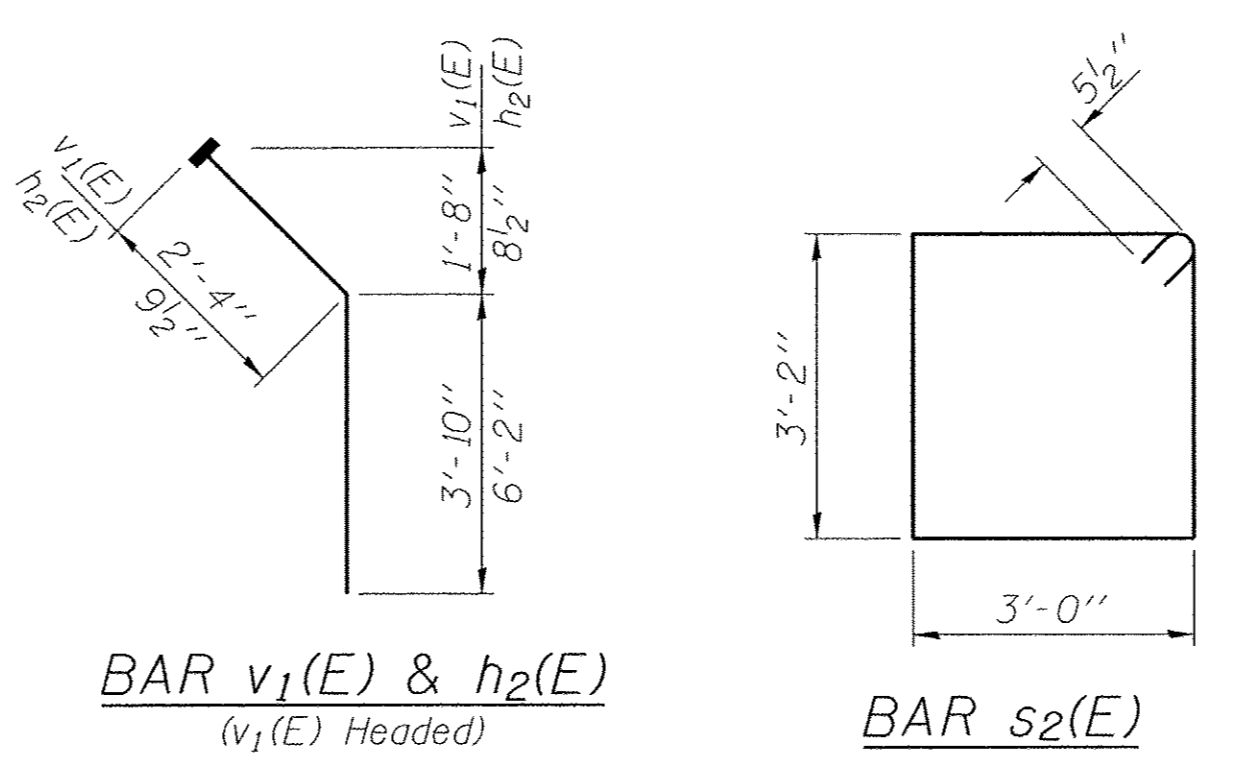
Bar	No.	Size	Length	Shape
h(E)	36	#5	10'-0"	—
h1(E)	4	#5	16'-2"	—
h2(E)	4	#5	7'-0"	—
p(E)	8	#7	18'-1"	—
p1(E)	8	#7	24'-4"	—
p2(E)	10	#5	18'-1"	—
p3(E)	10	#5	24'-4"	—
p4(E)	4	#5	5'-11"	—
s2(E)	28	#5	13'-3"	□
s3(E)	14	#5	4'-0"	□
s4(E)	7	#5	7'-4"	□
sp(E)	7	#4	2'-0"	WWW
u(E)	8	#6	10'-7"	□
v(E)	42	#8	5'-11"	—
v1(E)	42	#8	6'-2"	—
v2(E)	8	#5	6'-5"	—
v3(E)	12	#5	9'-10"	—
Structure Excavation			Cu. Yd.	127
Concrete Structures			Cu. Yd.	22.3
Reinforcement Bars, Epoxy Coated			Pound	4,110
Bar Splicers			Each	18
Furnishing Steel Piles HP14x117			Foot	330
Driving Piles HP14x117			Foot	330
Test Pile Steel HP14x117			Each	1
Pile Shoes			Each	7

PILE DATA

Type: Steel HP14x117 with Pile Shoes
Nominal Required Bearing: 929 Kips/pile
Factored Resistance Available: 510 Kips/pile
Est. Length: 55'
No. Production Piles: 6
No. Test Piles: 1



PLAN



FIELD CUTTING DIAGRAM

Order h1(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.

BAR v1(E) & h2(E)
(v1(E) Headed)

BAR s2(E)

BAR s3(E)

BAR u(E)

Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 26 of 29.
For details of Bars Splicers, see sheet 24 of 29.

AI-2440S-0

8-31-12

FILE NAME = 080340-shr-bridge.dgn	USER NAME = *USER*	DESIGNED - D.W.T.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3095 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L5/PE/SE CORP. 164.000959	PLOT SCALE = *SCALE*	CHECKED - A.E.U.	REVISED -
	PLOT DATE = 12/14/2016	DRAWN - D.A.B.	REVISED -
		CHECKED - A.E.U.	REVISED -

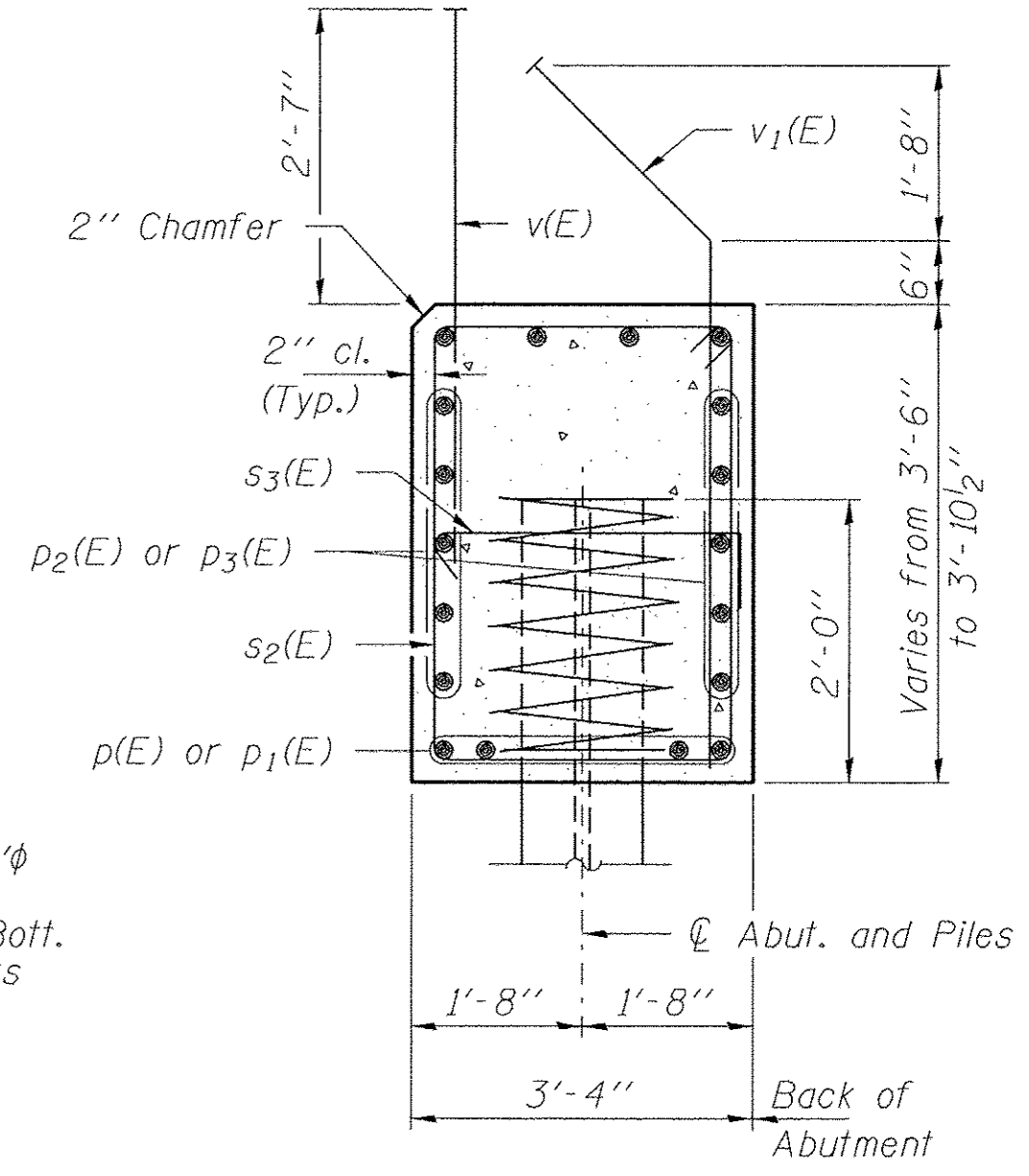
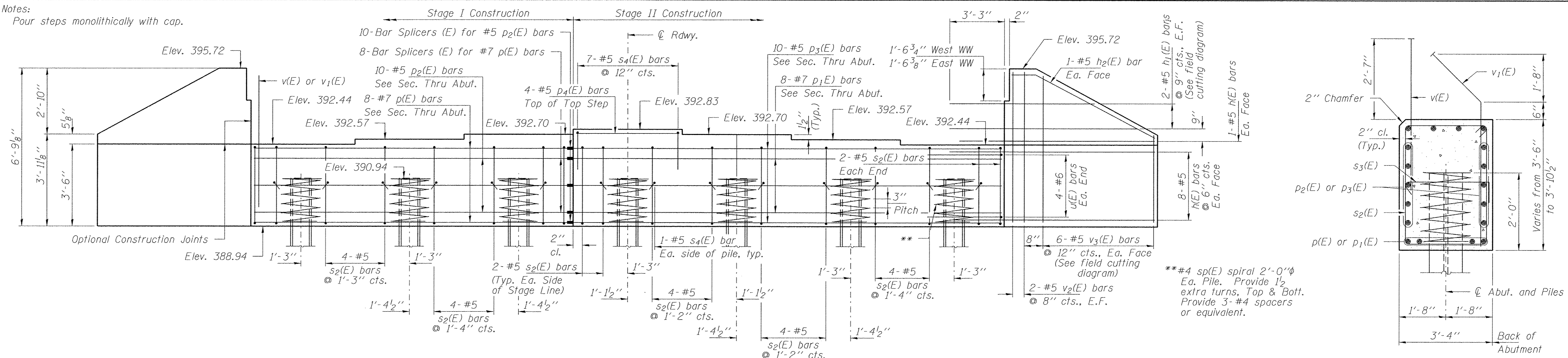
STATE OF ILLINOIS
JACKSON COUNTY HIGHWAY DEPARTMENT

NORTH ABUTMENT
STRUCTURE NO. 039-3267

SHEET NO. 21 OF 29 SHEETS

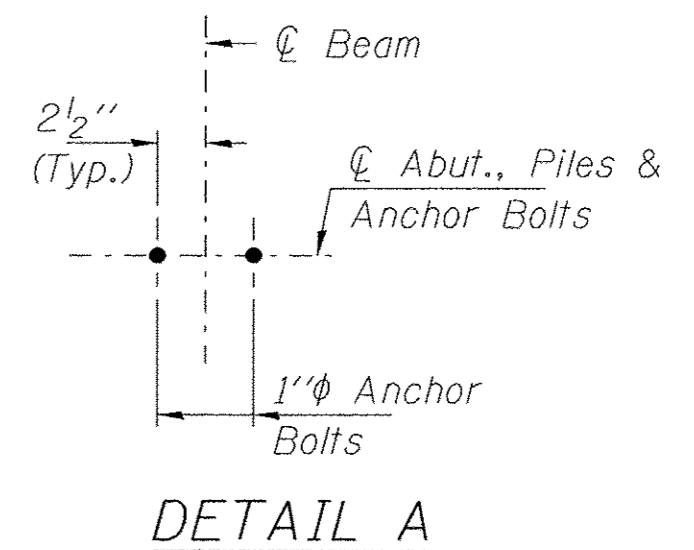
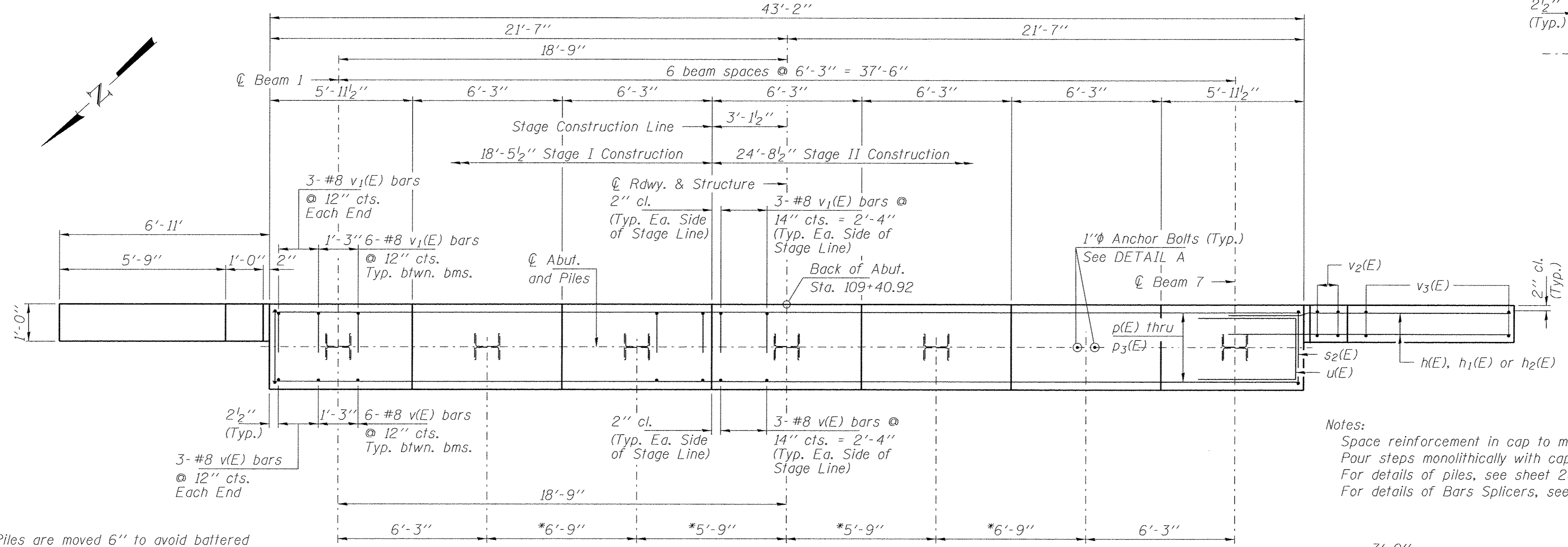
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	37
GIANT CITY ROAD		CONTRACT NO. 99577		
ILLINOIS		FED. AID PROJECT BRS-919(11)		

Notes:
Pour steps monolithically with cap.



ELEVATION

SEC. THRU ABUT.



DETAIL A

SOUTH ABUTMENT
BILL OF MATERIAL

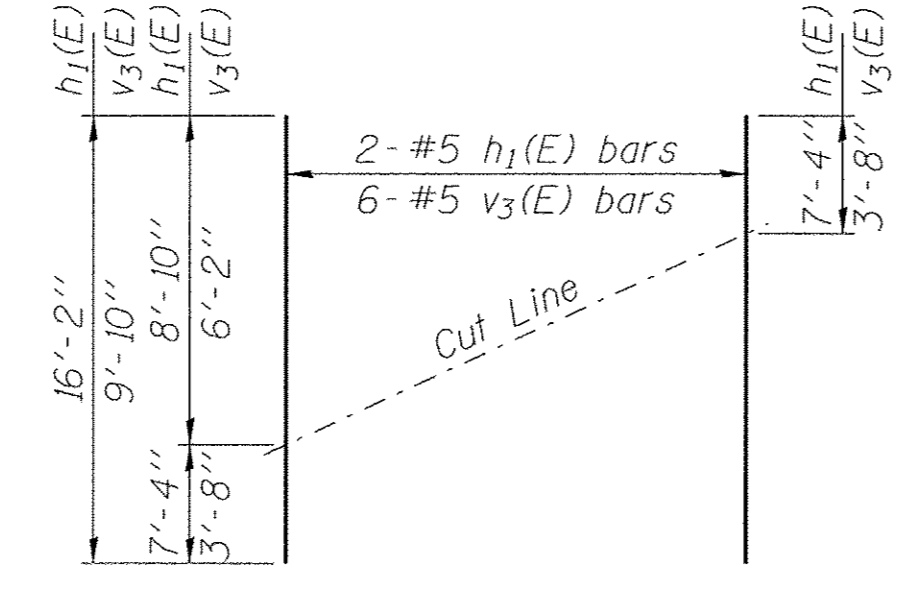
Bar	No.	Size	Length	Shape
h(E)	36	#5	10'-0"	—
h1(E)	4	#5	16'-2"	—
h2(E)	4	#5	7'-0"	—
p(E)	8	#7	18'-1"	—
p1(E)	8	#7	24'-4"	—
p2(E)	10	#5	18'-1"	—
p3(E)	10	#5	24'-4"	—
p4(E)	4	#5	5'-11"	—
s2(E)	28	#5	13'-3"	□
s3(E)	14	#5	4'-0"	□
s4(E)	7	#5	7'-4"	□
sp(E)	7	#4	2'-0"	W
u(E)	8	#6	10'-7"	□
v(E)	42	#8	5'-11"	—
v1(E)	42	#8	6'-2"	—
v2(E)	8	#5	6'-5"	—
v3(E)	12	#5	9'-10"	—
Structure Excavation			Cu. Yd.	54
Concrete Structures			Cu. Yd.	22.3
Reinforcement Bars, Epoxy Coated			Pound	4,110
Bar Splicers			Each	18
Furnishing Steel Piles HP14x117			Foot	150
Driving Piles			Foot	150
Test Pile Steel HP14x117			Each	1
Pile Shoes			Each	7

*Piles are moved 6" to avoid battered piles at existing South Abutment.

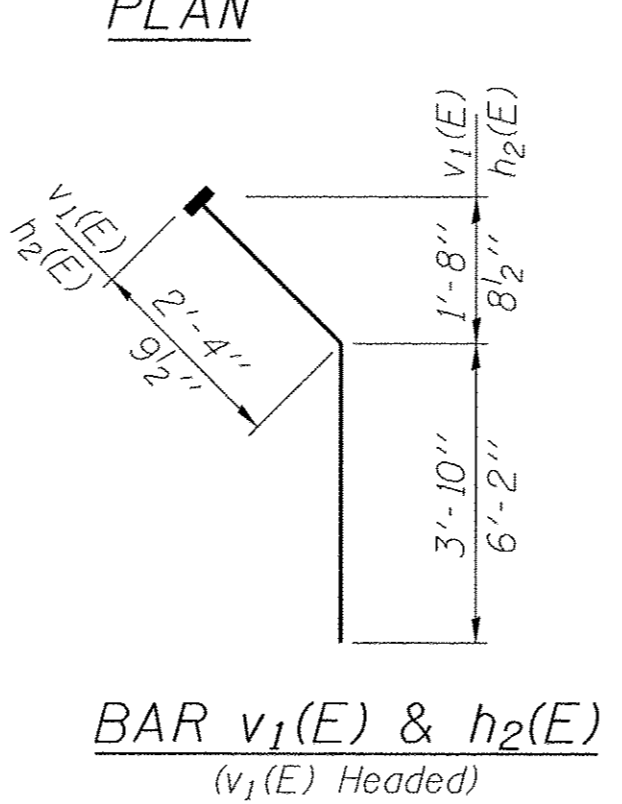
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 26 of 29.
For details of Bars Splicers, see sheet 24 of 29.

PILE DATA

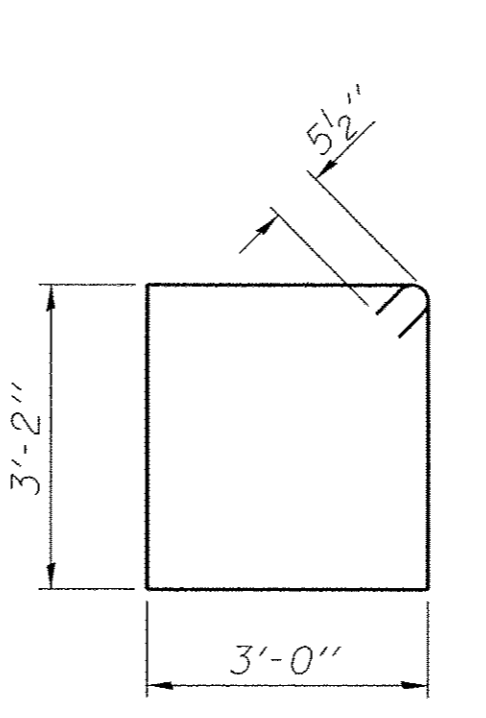
Type: Steel HP14x117 with Pile Shoes
Nominal Required Bearing: 929 Kips/pile
Factored Resistance Available: 510 Kips/pile
Est. Length: 25'
No. Production Piles: 6
No. Test Piles: 1



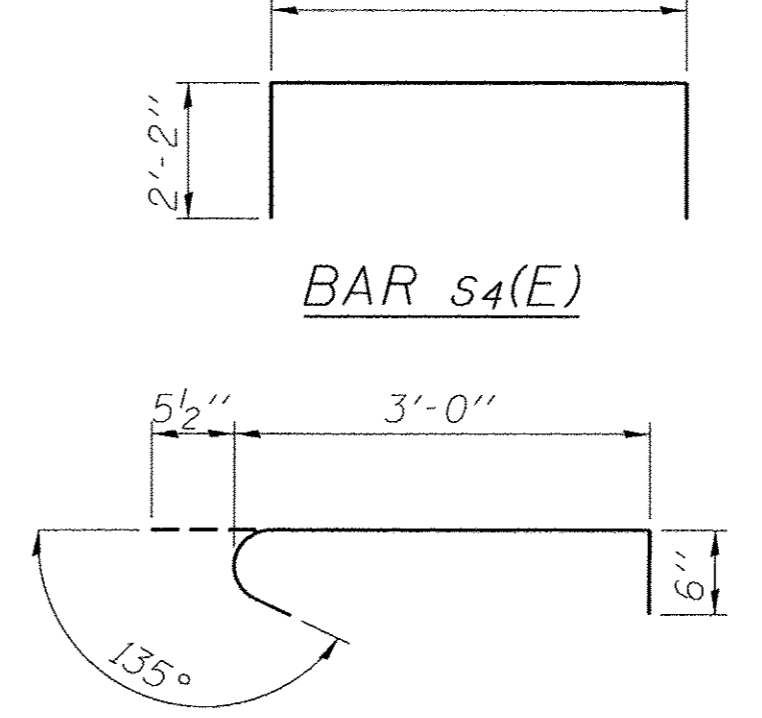
FIELD CUTTING DIAGRAM



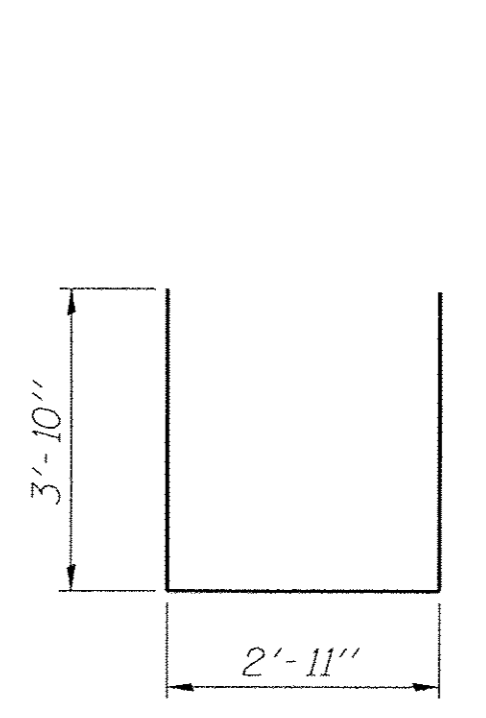
BAR v1(E) & h2(E)
(v1(E) Headed)



BAR s2(E)



BAR s3(E)



BAR u(E)

AI-2440S-0 8-31-12

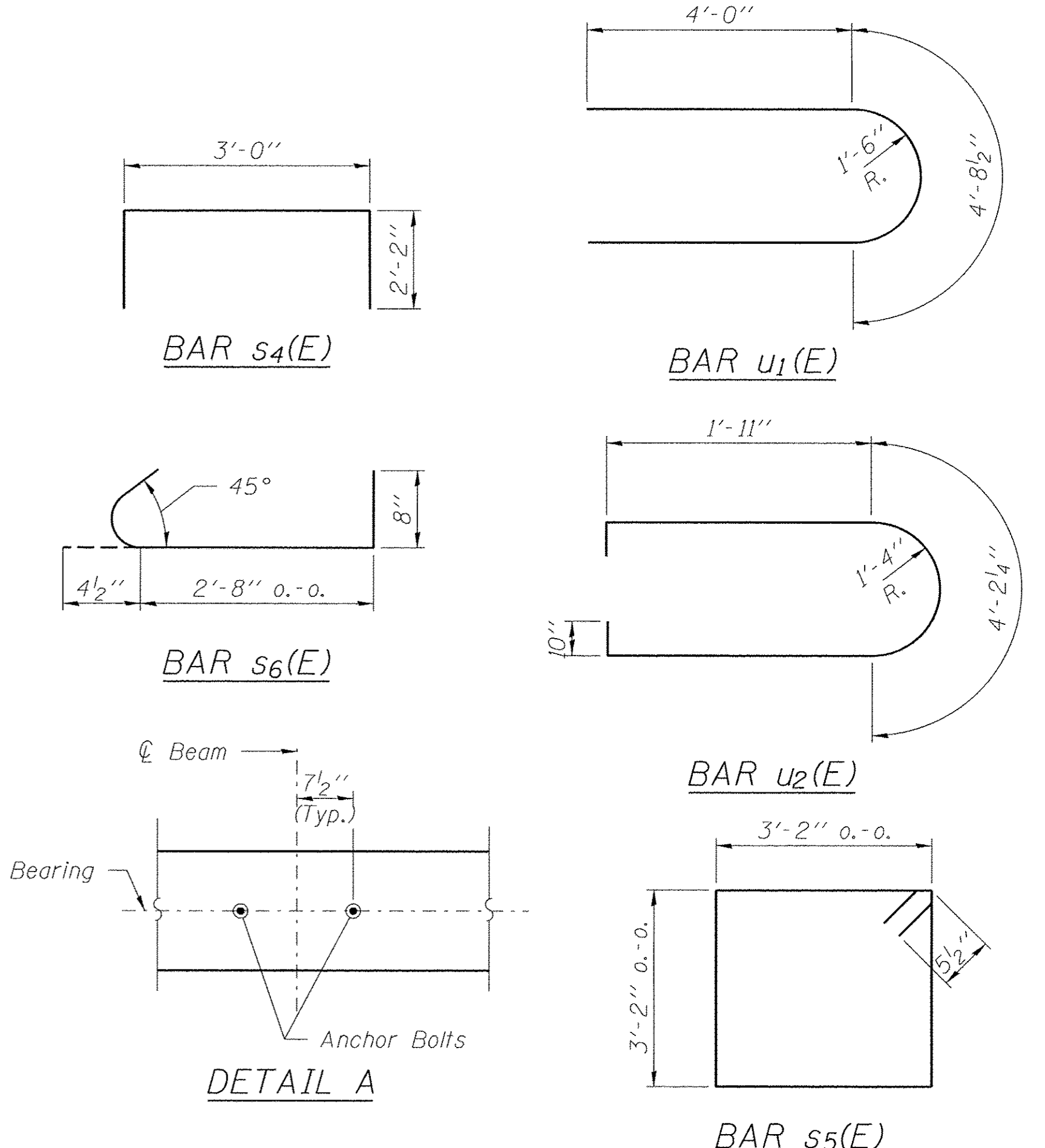
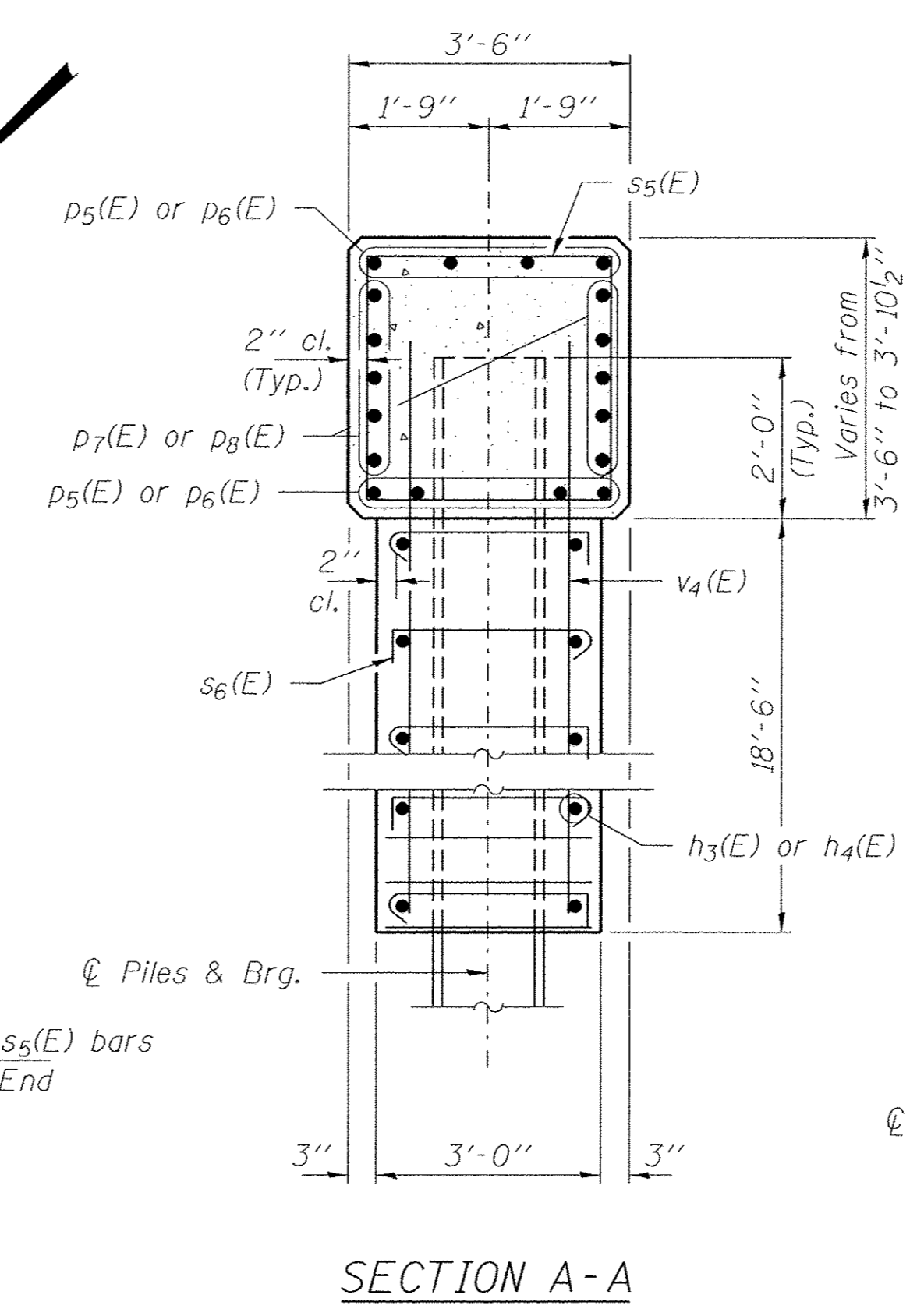
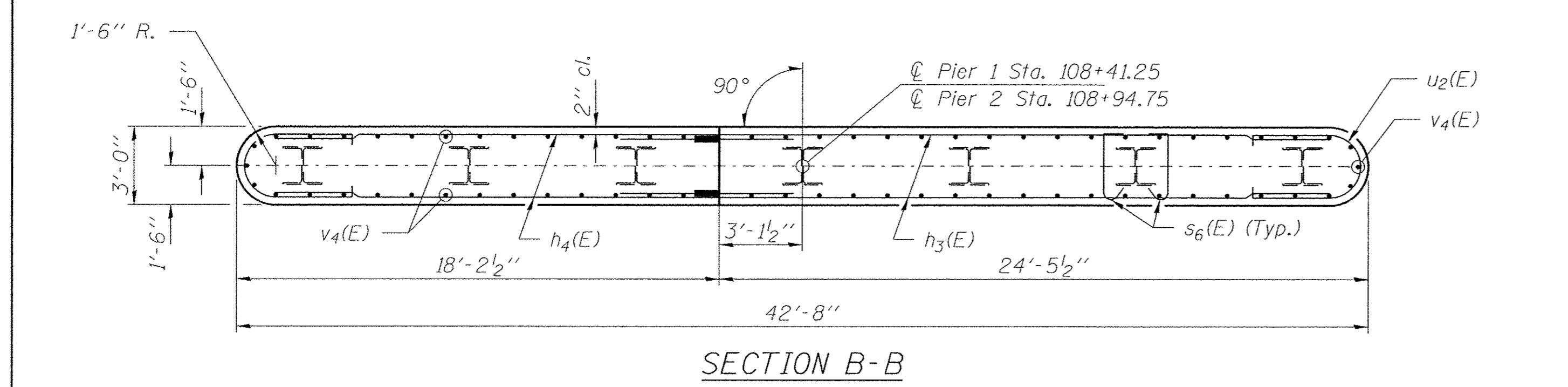
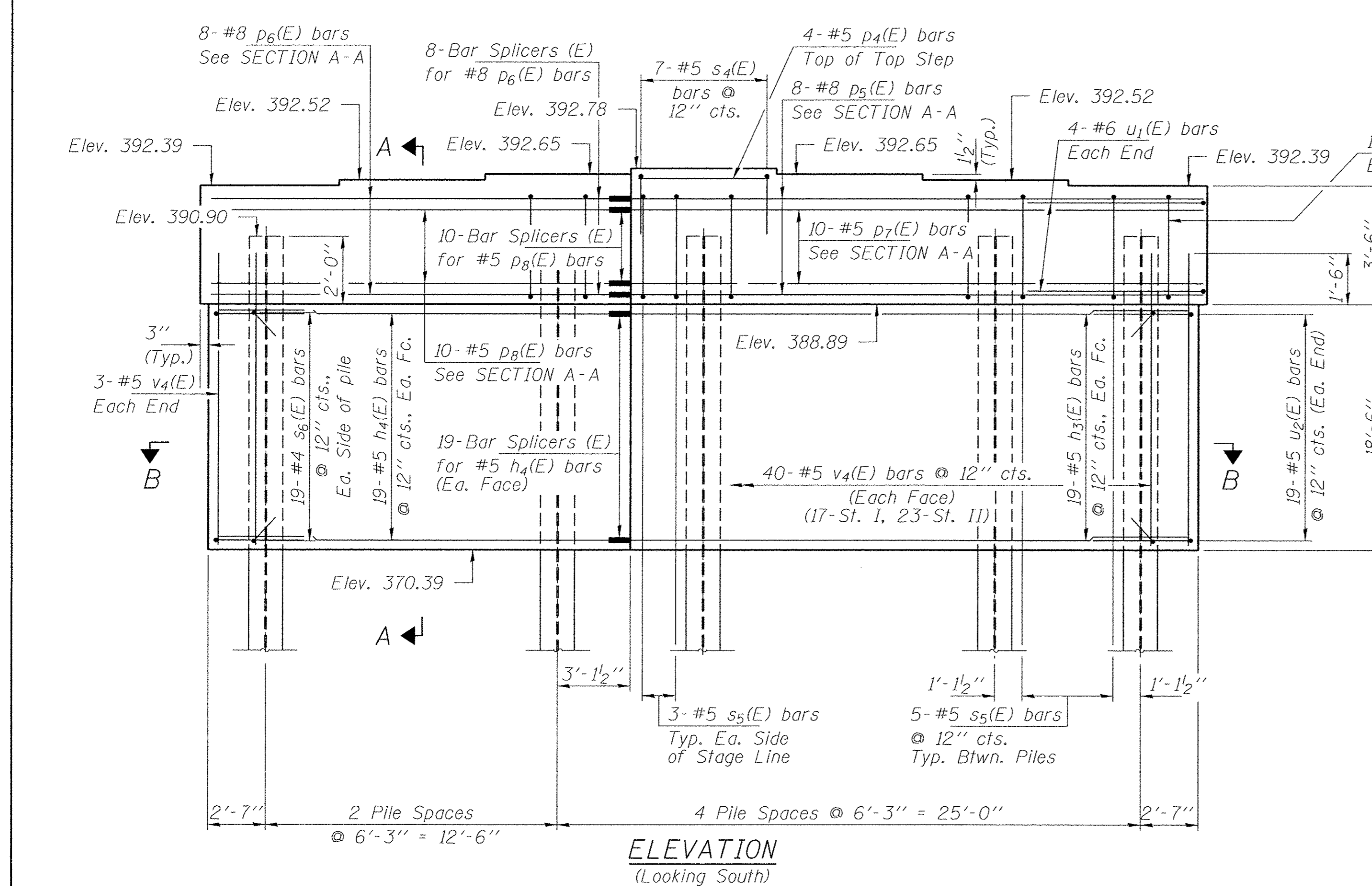
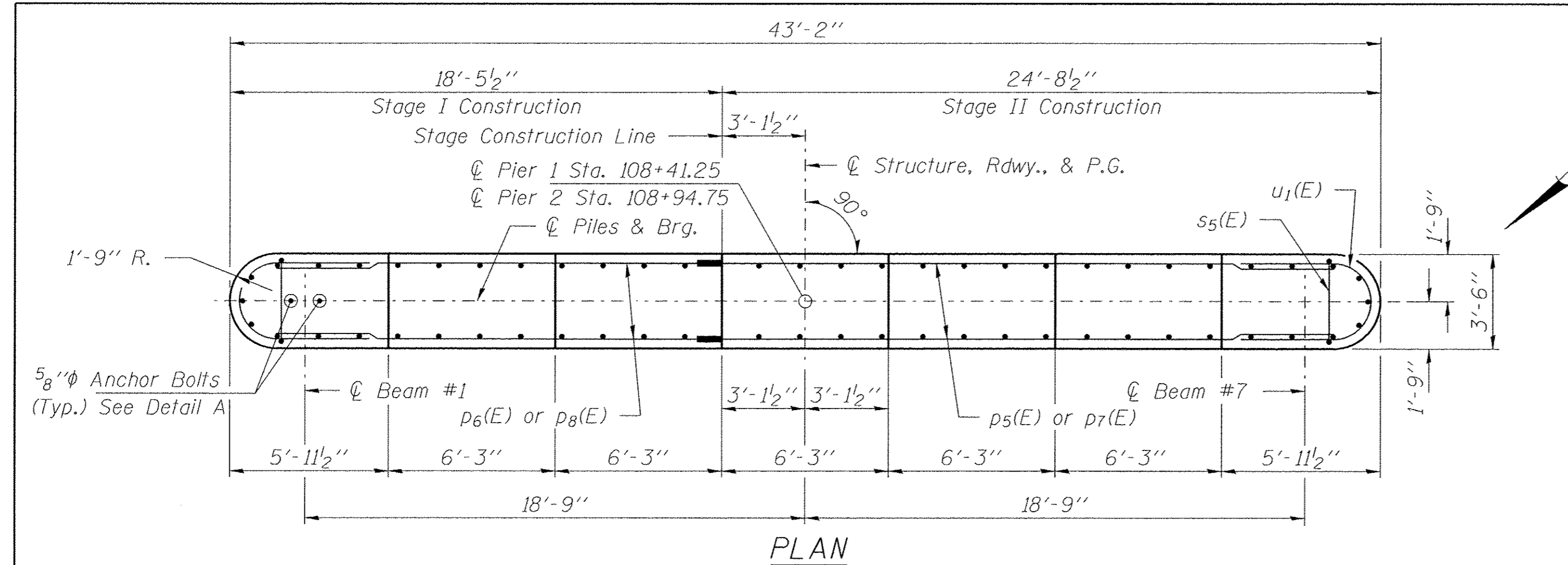
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DESIGNED - D.W.T.	
CHECKED - A.E.U.	
DRAWN - D.A.B.	
CHECKED - A.E.U.	
PLOT SCALE = #SCALE#	
PLOT DATE = 12/14/2016	

DESIGNED - D.W.T.	REVISED -
CHECKED - A.E.U.	REVISED -
DRAWN - D.A.B.	REVISED -
CHECKED - A.E.U.	REVISED -

STATE OF ILLINOIS
JACKSON COUNTY HIGHWAY DEPARTMENT

SOUTH ABUTMENT
STRUCTURE NO. 039-3267
SHEET NO. 22 OF 29 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	38
GIANT CITY ROAD			CONTRACT NO. 99577	
[ILLINOIS] FED. AID PROJECT BRS-919(111)				

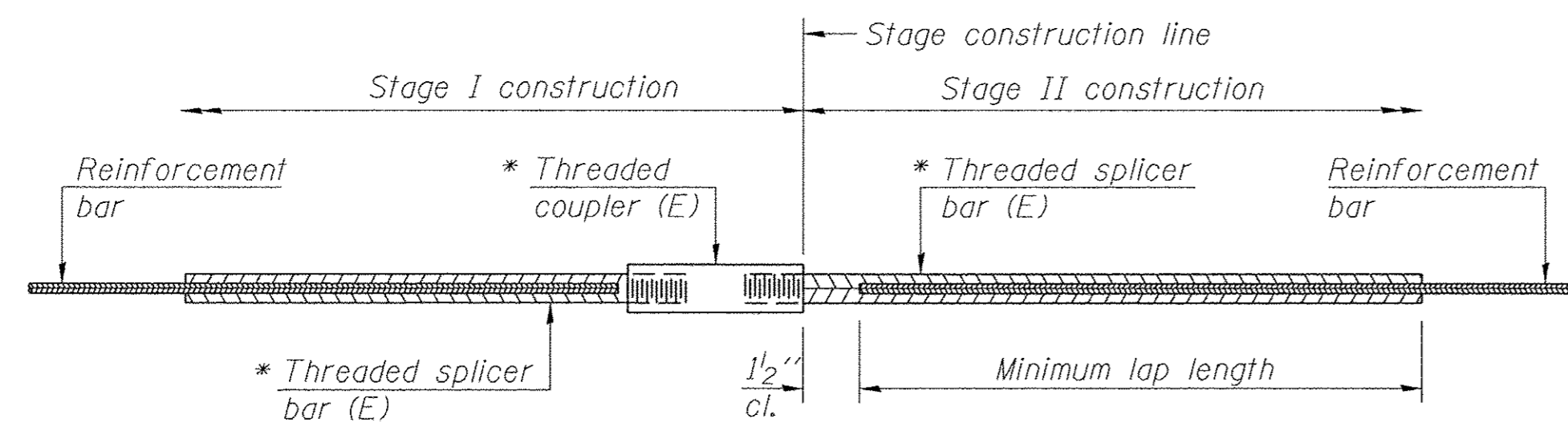


Notes:
 Pour steps monolithically with cap.
 If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.
 s6(E) bars shall enclose both the vertical and horizontal reinforcing bars. The position of the 90 and 135 degree hooked ends shall be alternated between adjacent bars as shown, both vertically and horizontally. Space reinforcement in the cap to miss anchor bolts. For details of Bar Splicers, see sheet 24 of 29. For pile details, see sheet 26 of 29.
 Cofferdam (Type 1) (Location-1) shall be located at Pier 1. Cofferdam (Type 1) (Location-2) shall be located at Pier 2.

PILE DATA
 Type: Steel HP14x117 with Pile Shoes
 Nominal Required Bearing: 929 Kips/pile
 Factored Resistance Available: 510 Kips/pile
 Est. Length: 45' (Pier 1)
 Est. Length: 45' (Pier 2)
 No. Production Piles: 12
 No. Test Piles: 2

BILL OF MATERIAL - 2 PIERS

BAR	NO.	SIZE	LENGTH	SHAPE
h3(E)	76	#5	22'-9"	—
h4(E)	76	#5	16'-6"	—
p4(E)	8	#5	5'-11"	—
p5(E)	16	#8	22'-9"	—
p6(E)	16	#8	16'-6"	—
p7(E)	20	#5	22'-9"	—
p8(E)	20	#5	16'-6"	—
s4(E)	14	#5	7'-4"	┌
s5(E)	66	#5	13'-7"	┌
s6(E)	532	#4	3'-9"	┌
u1(E)	16	#6	12'-9"	U
u2(E)	76	#5	9'-9"	U
v4(E)	172	#5	19'-10"	—
Structure Excavation			Cu. Yd.	123
Cofferdam Excavation			Cu. Yd.	513
Cofferdam (Type 1) (Location-1)			Each	1
Cofferdam (Type 1) (Location-2)			Each	1
Concrete Structures			Cu. Yd.	210.6
Reinforcement Bars, Epoxy Coated			Pound	12,670
Furnishing Steel Piles HP14x117			Foot	540
Driving Piles			Foot	540
Test Pile Steel HP14x117			Each	2
Pile Shoes			Each	14
Bar Splicers			Each	112

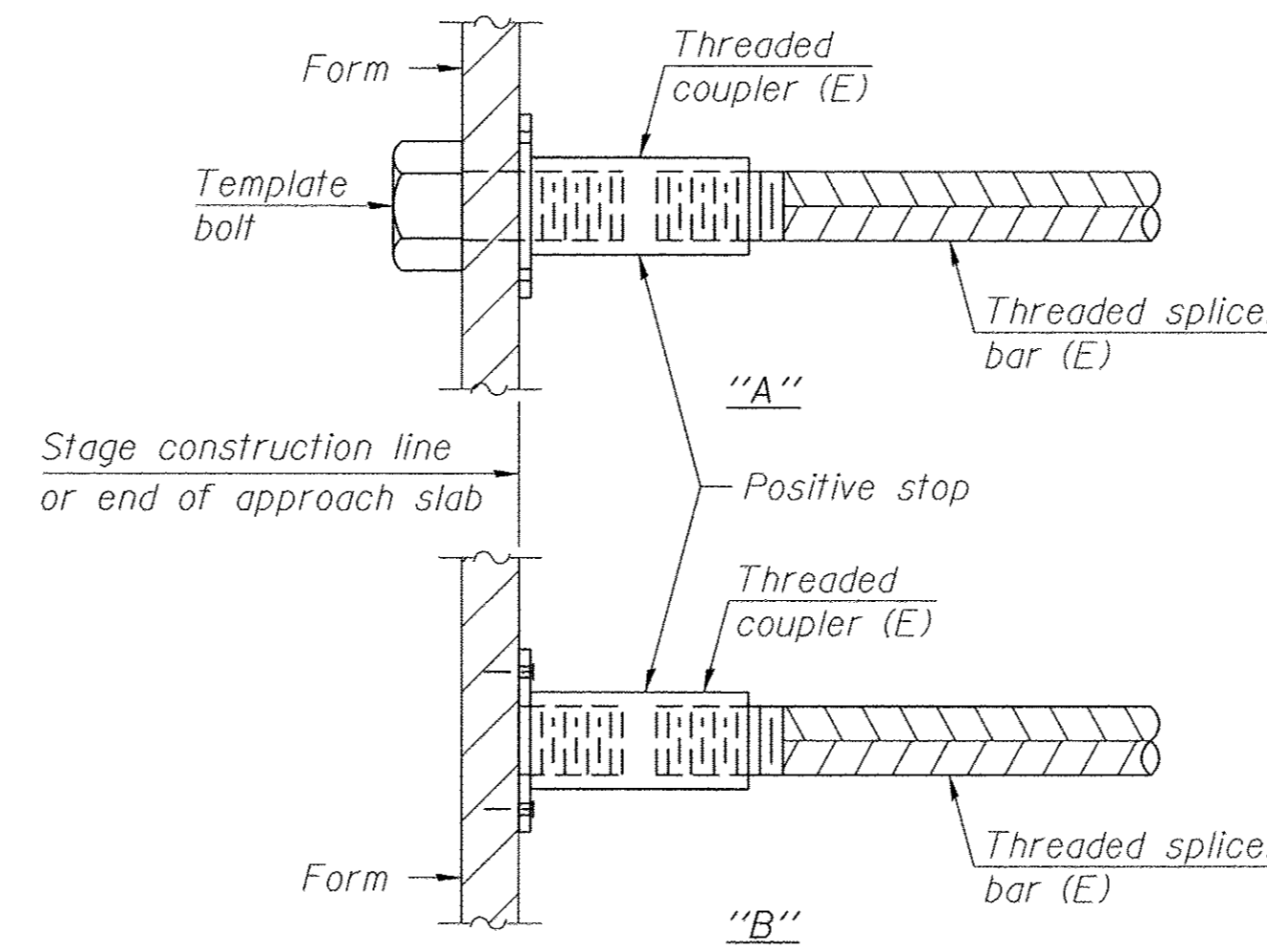


STANDARD BAR SPLICER ASSEMBLY

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

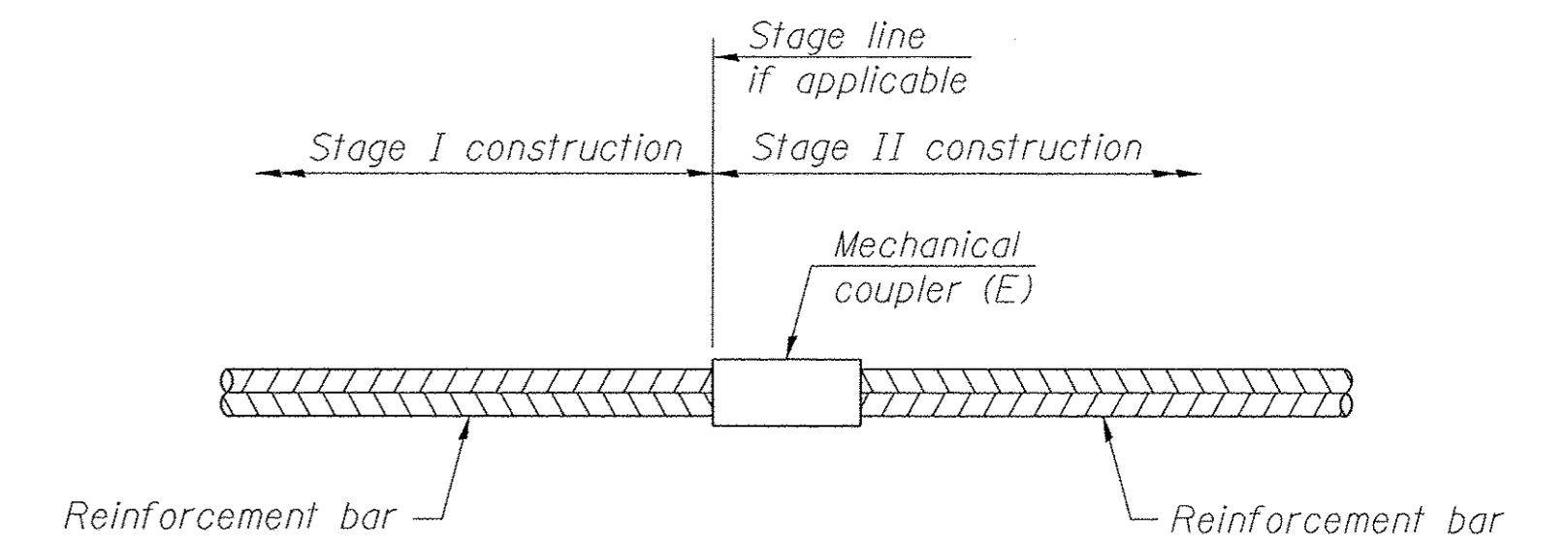
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top of Slab - Super	#5	288	3'-6"
Bot. of Slab - Super	#5	173	3'-6"
Diaphragm - Super	#6	6	4'-0"
Bridge Appr. Slab - Top	#5	92	3'-4"
Bridge Appr. Slab - Bott.	#8	120	5'-4"
Bridge Appr. Slab - Footing	#5	80	3'-2"
N. Abut.	#7	8	5'-0"
N. Abut.	#5	10	2'-9"
S. Abut.	#7	8	5'-0"
S. Abut.	#5	10	2'-9"
Piers	#5	96	2'-9"
Piers	#8	16	5'-9"



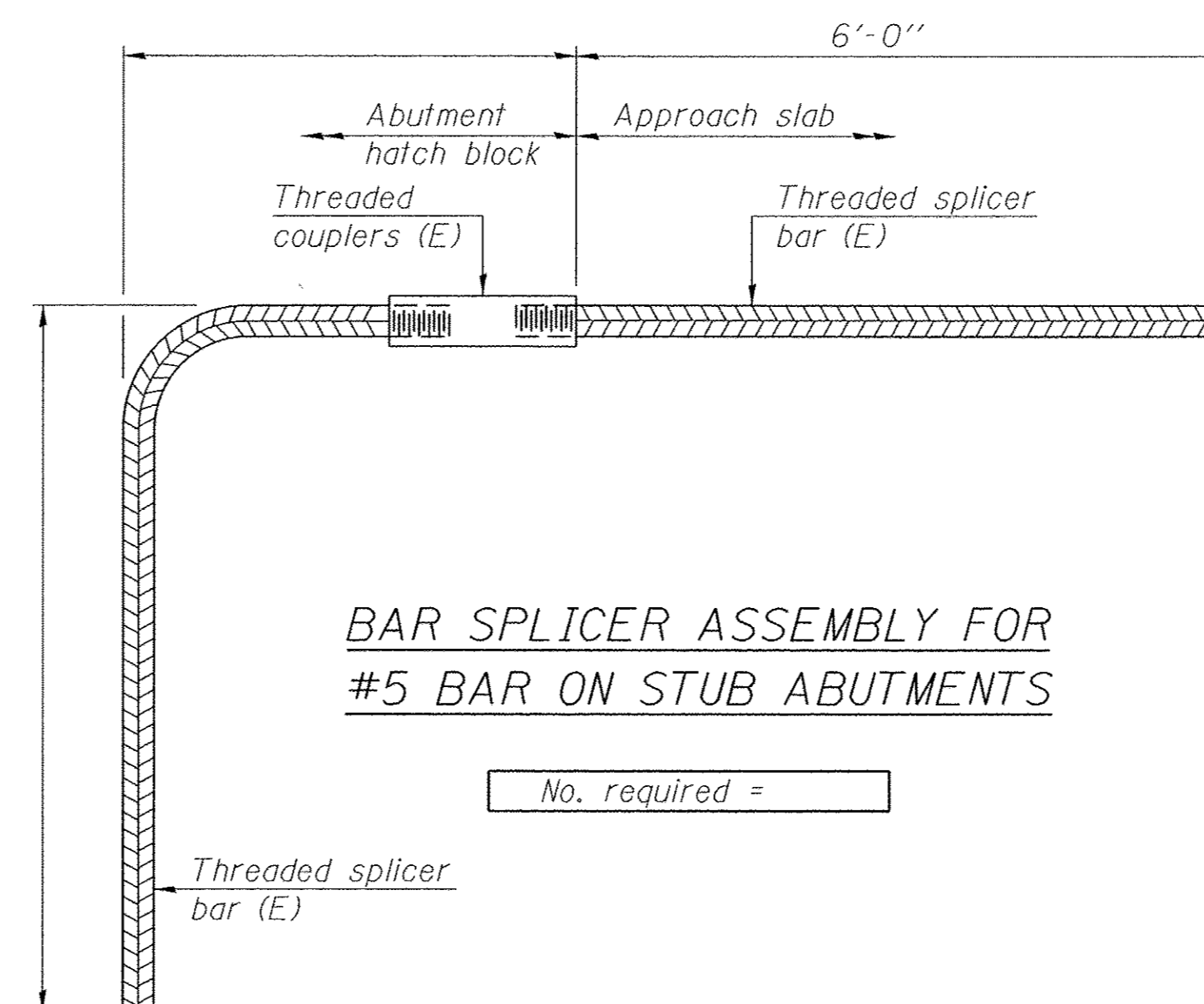
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

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

BSD-1

11-22-2016

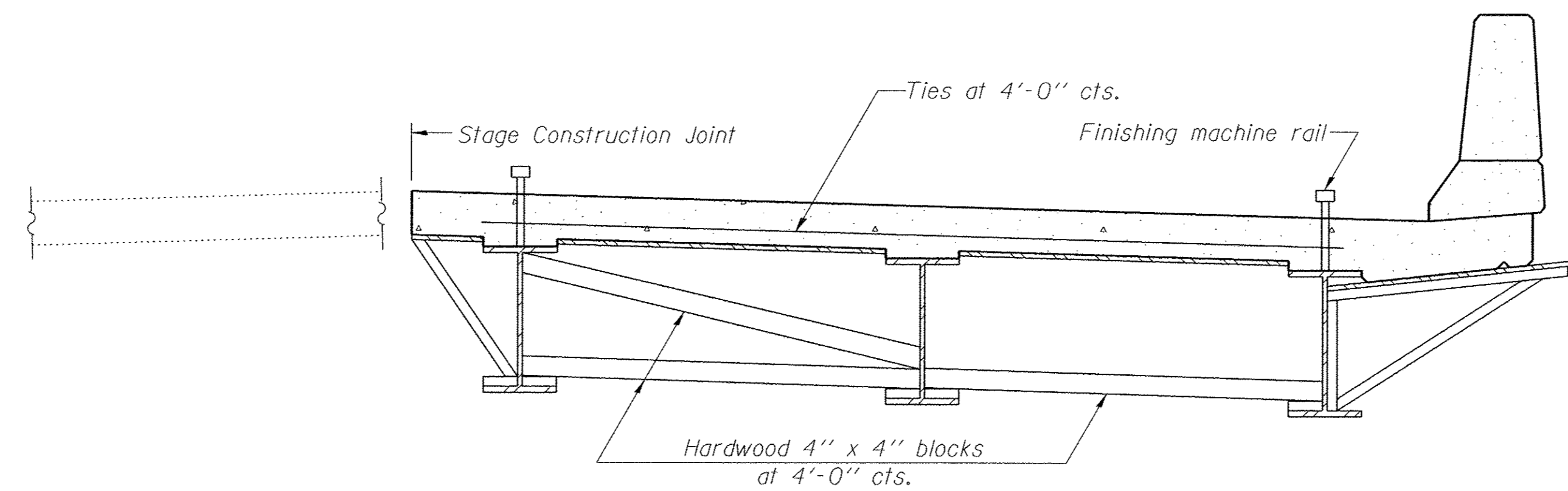
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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	CHECKED - A.E.U.	REVISED -			919	07-00153-00-BR	JACKSON	70	40
ILLINOIS PROFESSIONAL DESIGN FIRM LE / PE / SE CORP. 184-000958	PLOT DATE = 12/14/2016	DRAWN - D.A.B.	REVISED -			GIANT CITY ROAD				CONTRACT NO. 99577
		CHECKED - A.E.U.	REVISED -							ILLINOIS FED. AID PROJECT BRS-919(111)

When cantilever forming brackets are used, the work shall be done according to Article 503.06(b) of the Standard Specifications, except as modified below and in the details shown on this sheet.

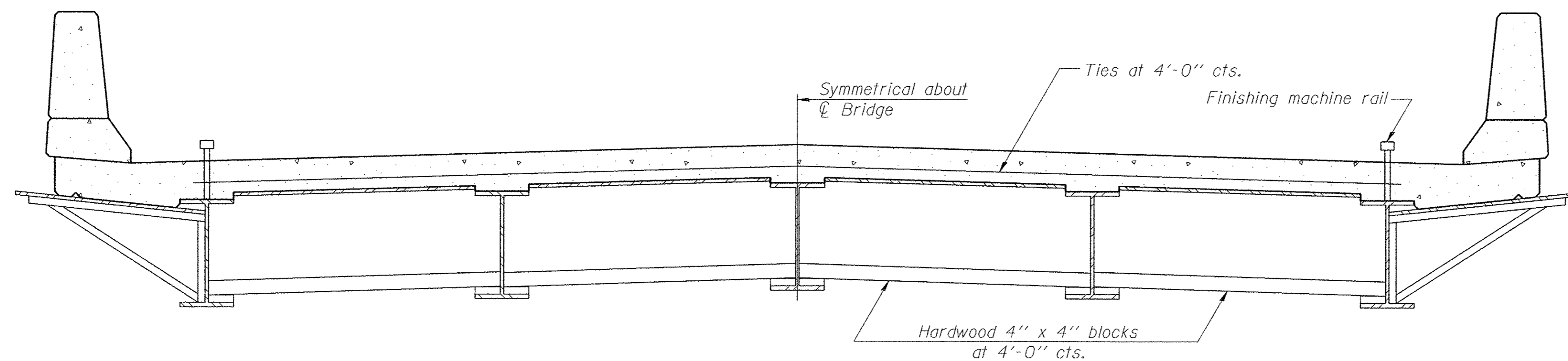
The finishing machine rails shall be placed on the top flange of the exterior beams.

The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.

For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.



FORM BRACES FOR
STAGE CONSTRUCTION

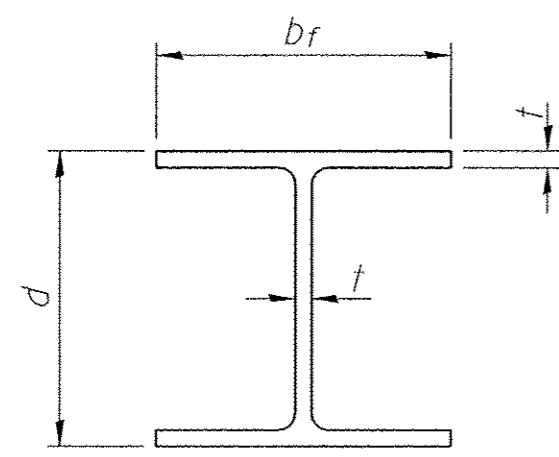


FORM BRACES FOR
STANDARD CONSTRUCTION

SB-1

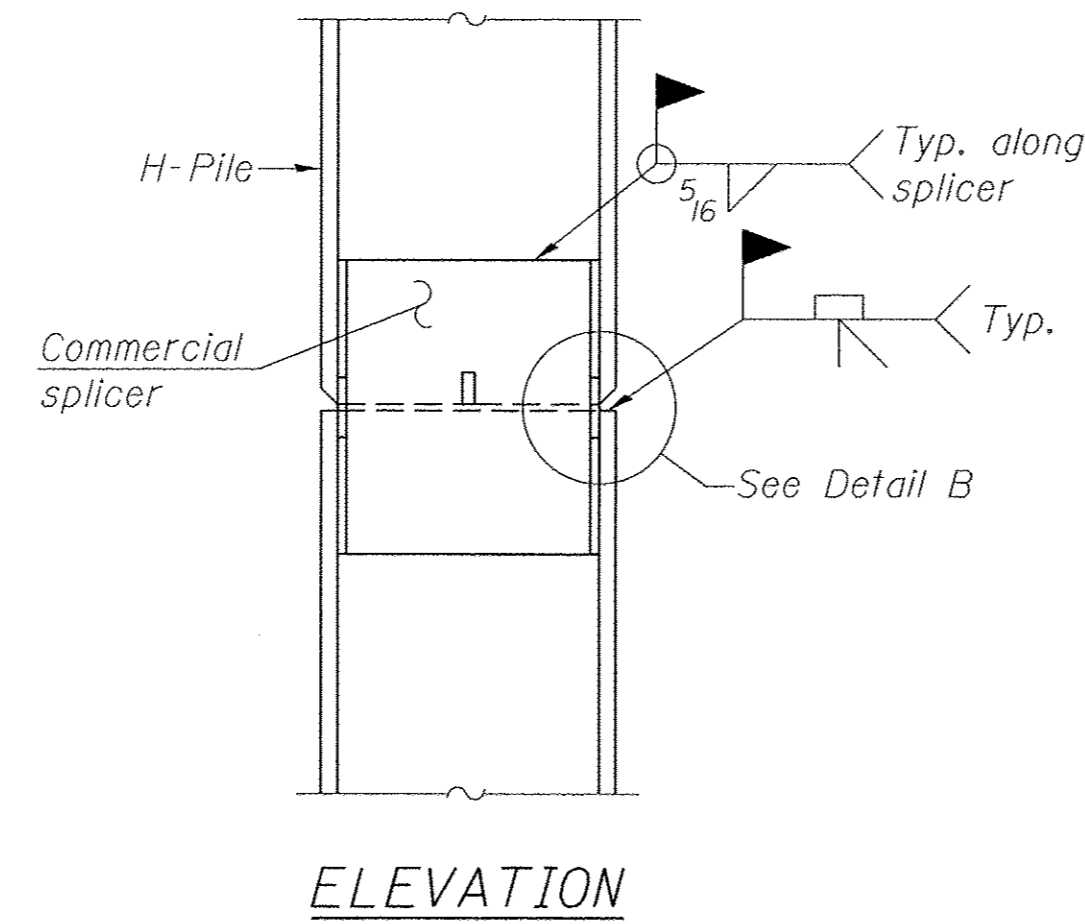
11-22-2016

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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = #SCALE#	CHECKED - A.E.U.	REVISED -			919	07-00153-00-BR	JACKSON	70	41
HLR ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-000858	PLOT DATE = 12/14/2016	DRAWN - D.A.B.	REVISED -			GIANT CITY ROAD		CONTRACT NO. 99577		
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SHEET NO. 25 OF 29 SHEETS										

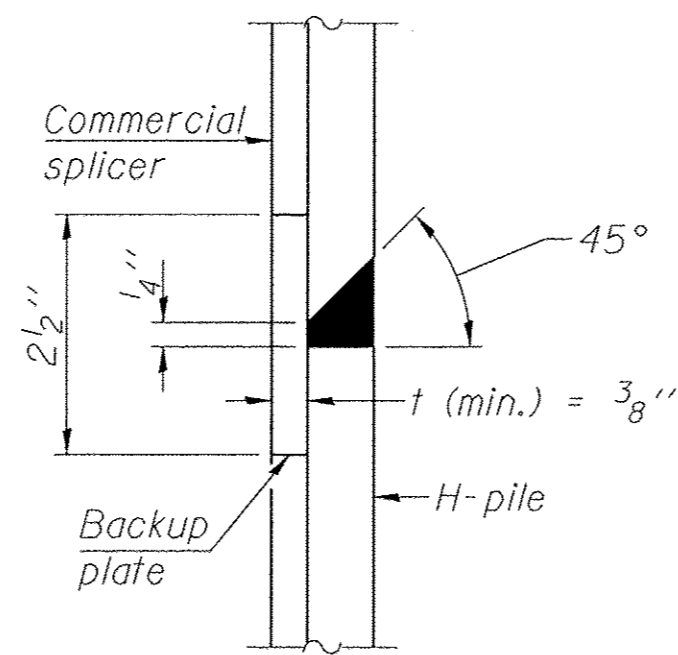


STEEL PILE TABLE

Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	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"	11/16"	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"

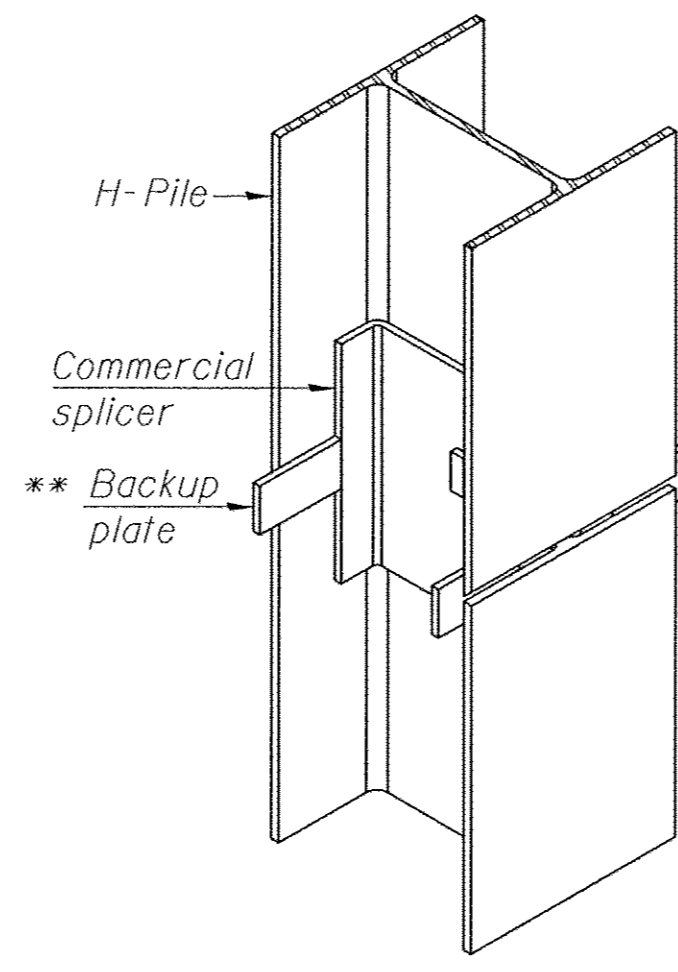


ELEVATION

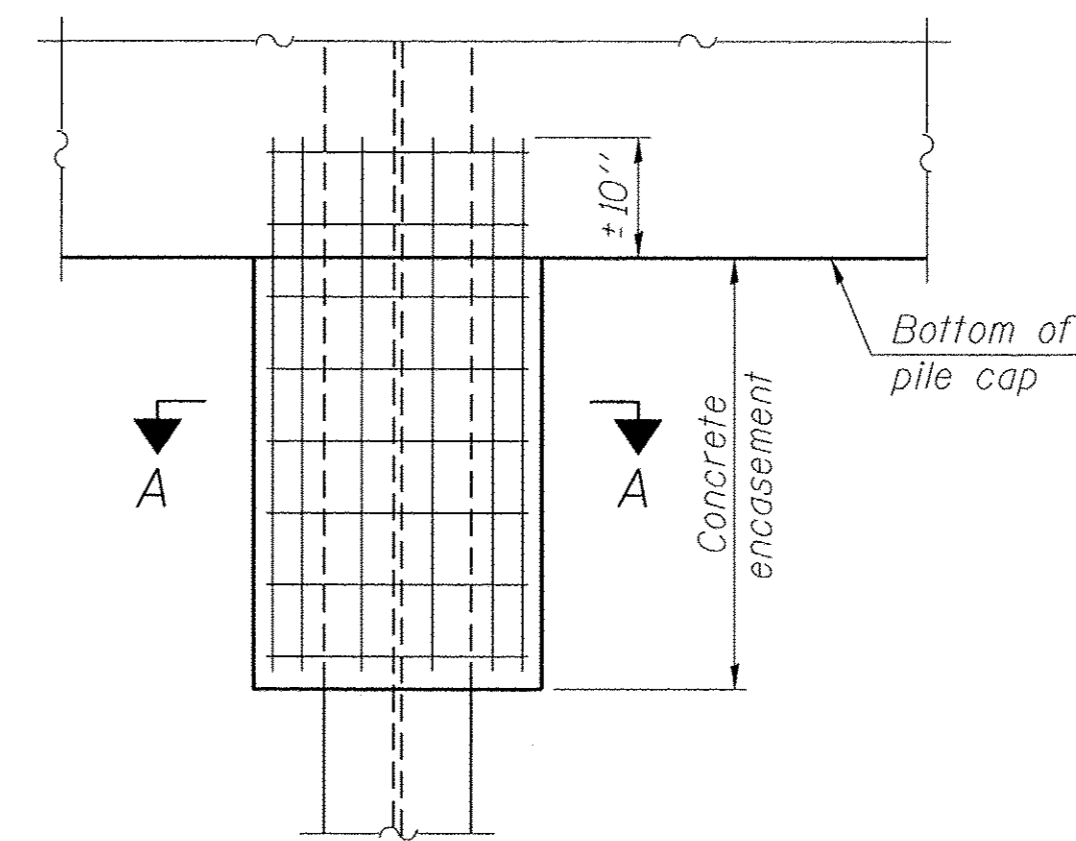


DETAIL "B"

WELDED COMMERCIAL SPLICE

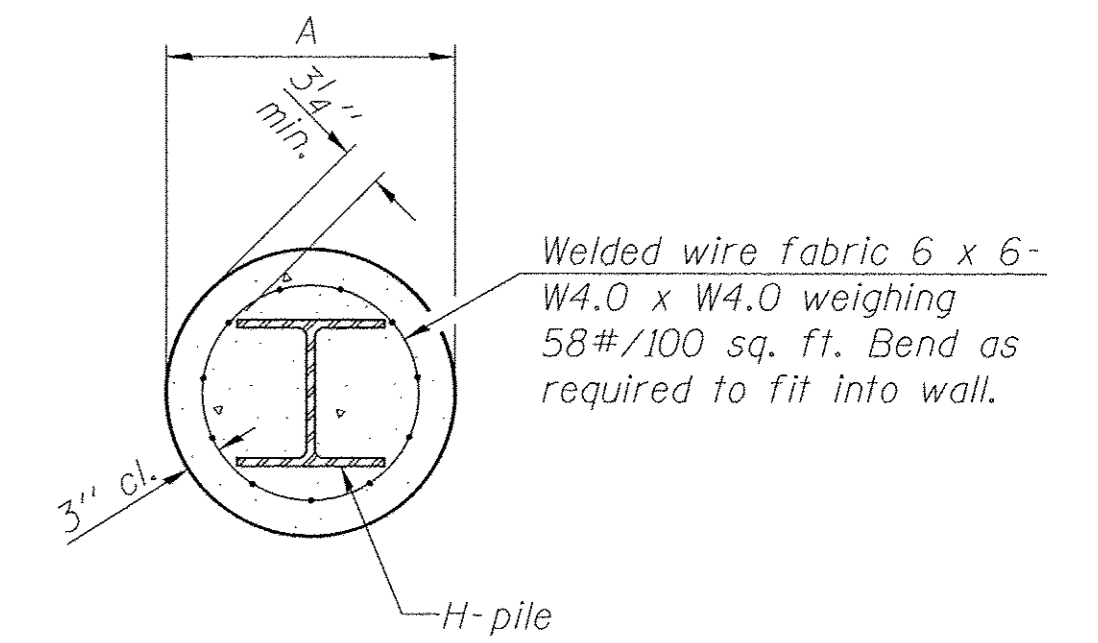


ISOMETRIC VIEW



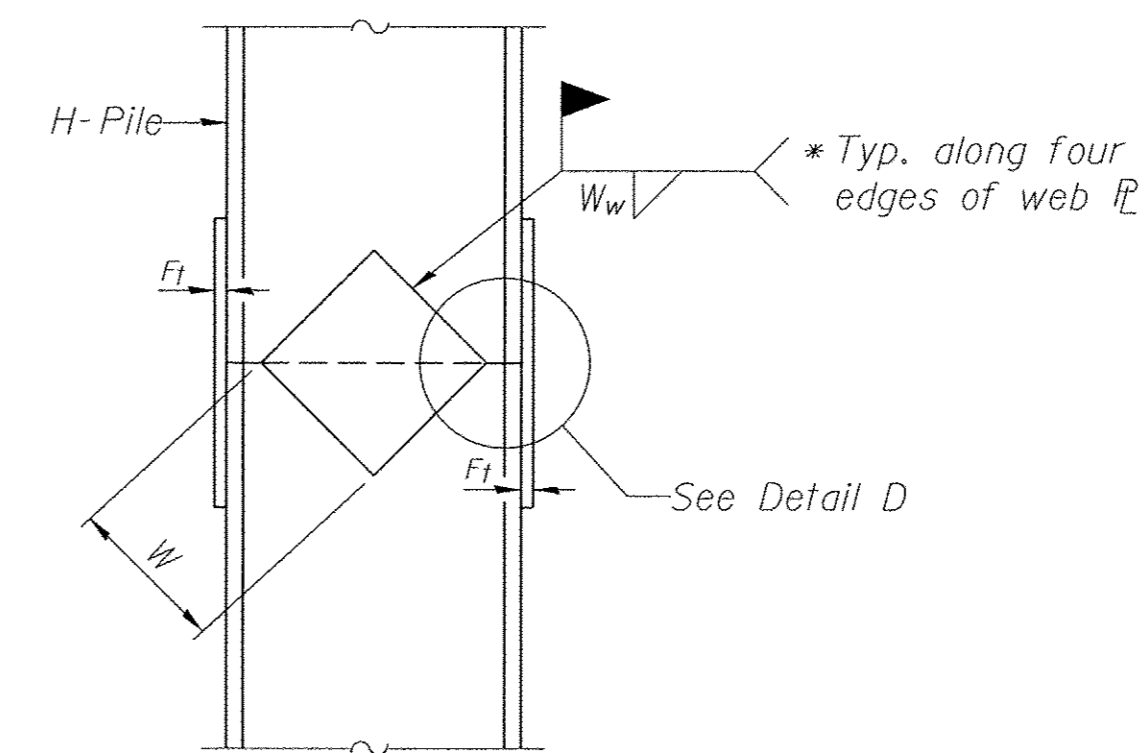
ELEVATION

PILE ENCASEMENT

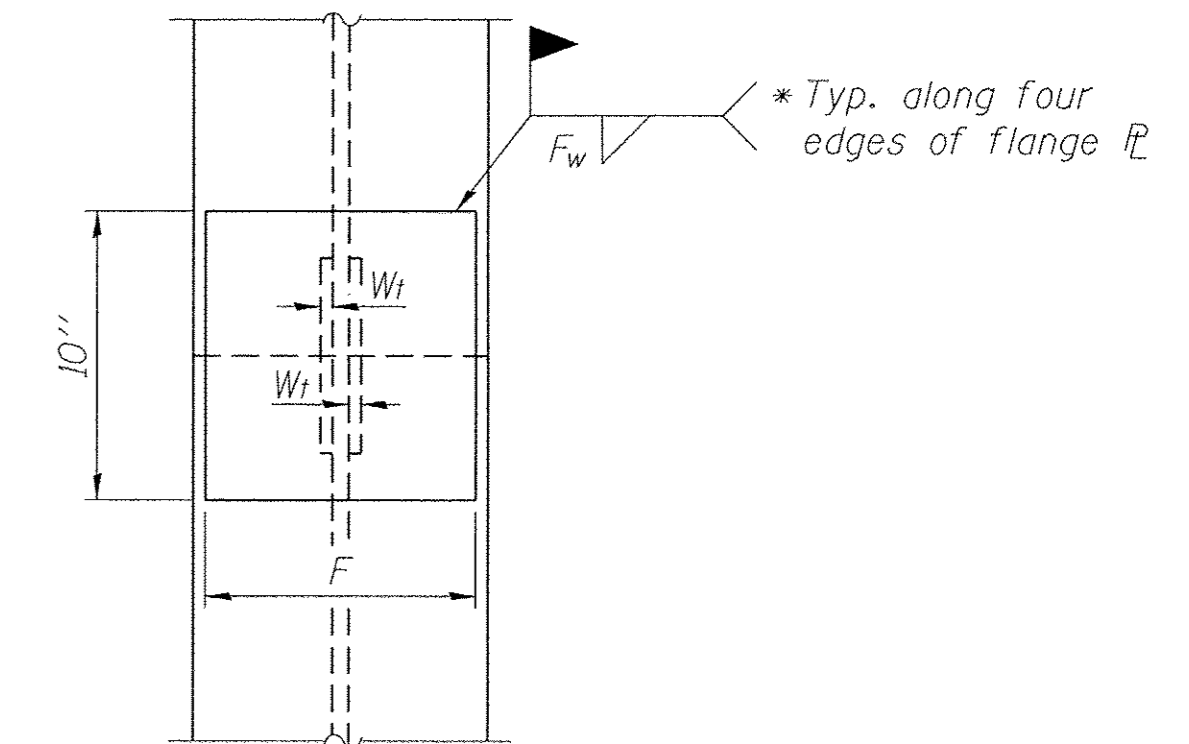


Note:
Forms for encasement may be omitted when soil conditions permit.

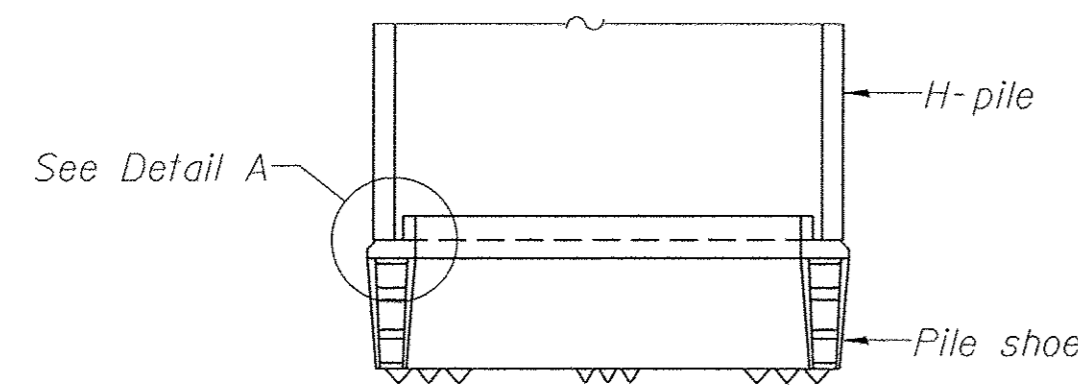
SECTION A-A



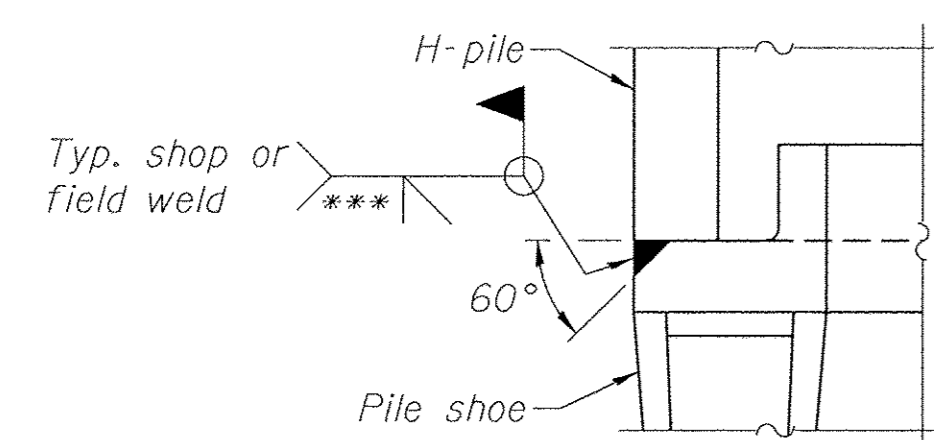
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END VIEW

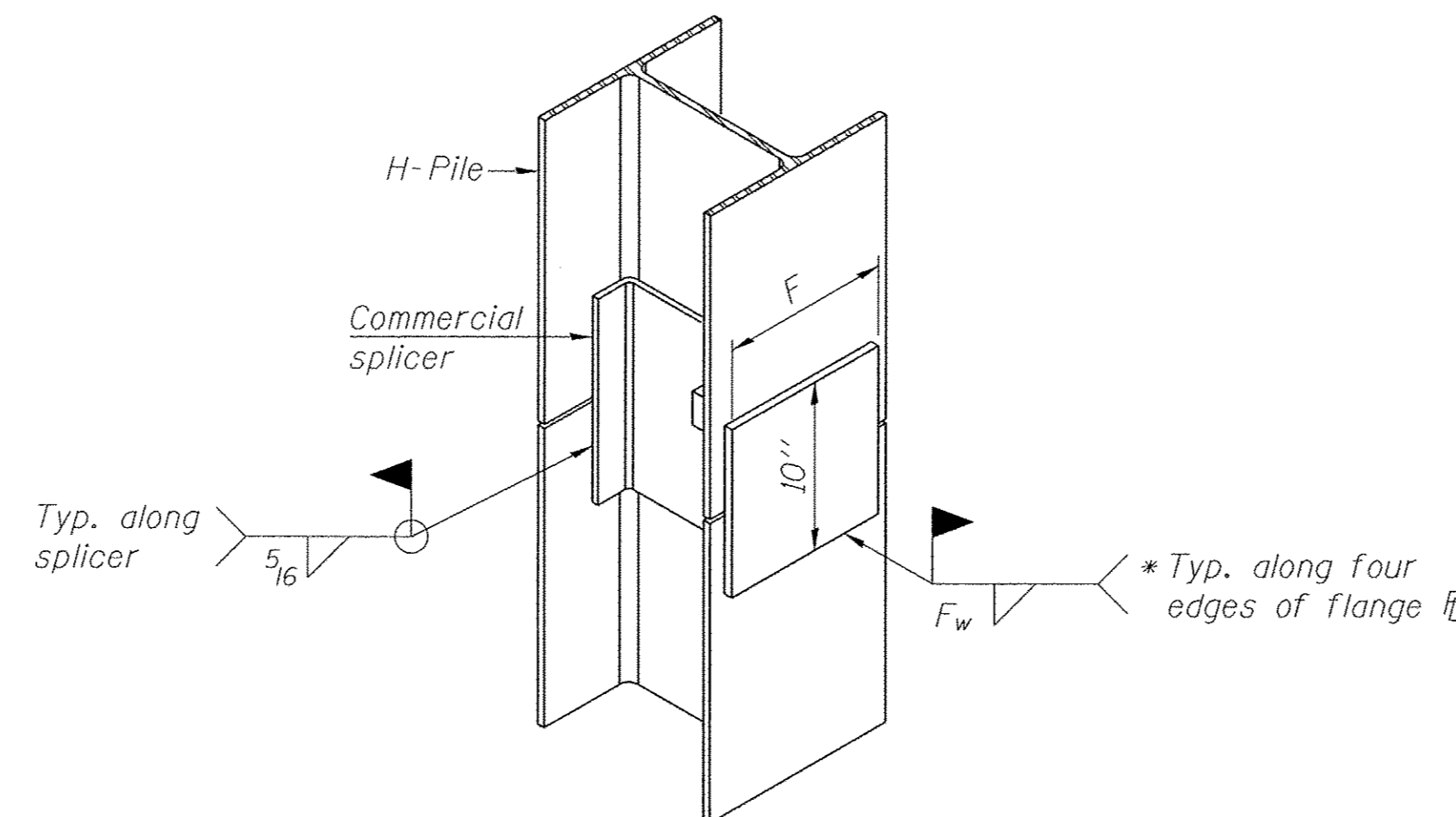


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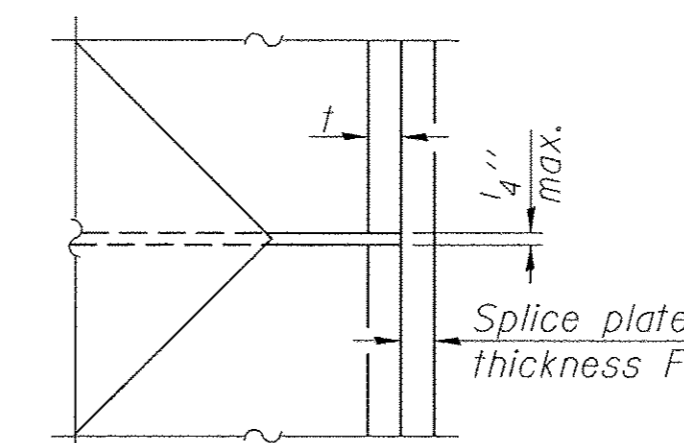


DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED 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.).

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

F-HP 1-27-12

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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	CHECKED - A.E.U.	REVISED -			919	07-00153-00-BR	JACKSON	70	42
HLR ILLINOIS PROFESSIONAL DESIGN FIRM L3 / P/E / SE CORP. 194-000659	PLOT DATE = 12/14/2016	DRAWN - D.A.B.	REVISED -			GIANT CITY ROAD		CONTRACT NO. 99577		
		CHECKED - A.E.U.	REVISED -			SHEET NO. 26 OF 29 SHEETS				

[ILLINOIS] FED. AID PROJECT BRS-919111

Route: PAS 919 Structure Number: 039-3009 Date: 12/05/2001
 Section: Bored By: Bryan Keller
 County: Jackson Location: N 1/2 SECT 35-9-1 Checked By: Rob Graeff

DEPT	BLOW	Qu	W%	Surf Wat Elev:	DEPT	BLOW	Qu	W%
81.8				81.8				
65.6				65.6				
65.1				65.1				
100.1				100.1				
08.1 (393.9)				08.1 (393.9)				
1				1				
7	1.7S	18		7	1.7S	18		
8				8				
70.6 (366.4)				70.6 (366.4)				
6.0				6.0				
3	1.2S	19		3	1.2S	19		
5				5				
68.1 (363.9)				68.1 (363.9)				
1				1				
3	1.2S	20		3	1.2S	20		
4				4				
90.6 (386.4)				90.6 (386.4)				
10.0				10.0				
2	0.6S	25		2	0.6S	25		
1				1				
88.1 (383.9)				88.1 (383.9)				
1	0.4S	27		1	0.4S	27		
1				1				
85.6 (381.4)				85.6 (381.4)				
15.0				15.0				
1	0.5B	26		1	0.5B	26		
1				1				
83.1 (378.9)				83.1 (378.9)				
1				1				
1	0.2B	29		1	0.2B	29		
1				1				
80.6 (376.4)				80.6 (376.4)				
20.0				20.0				
1	0.7B	29		1	0.7B	29		
1				1				
1	0.6B	43		1	0.6B	43		
1				1				
78.6 (371.4)				78.6 (371.4)				
25.0				25.0				
1				1				

N-Std Penetr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Route: PAS 919 Date: 12/05/2001
 Section: Bored By: Bryan Keller
 County: Jackson Location: N 1/2 SECT 35-9-1 Checked By: Rob Graeff

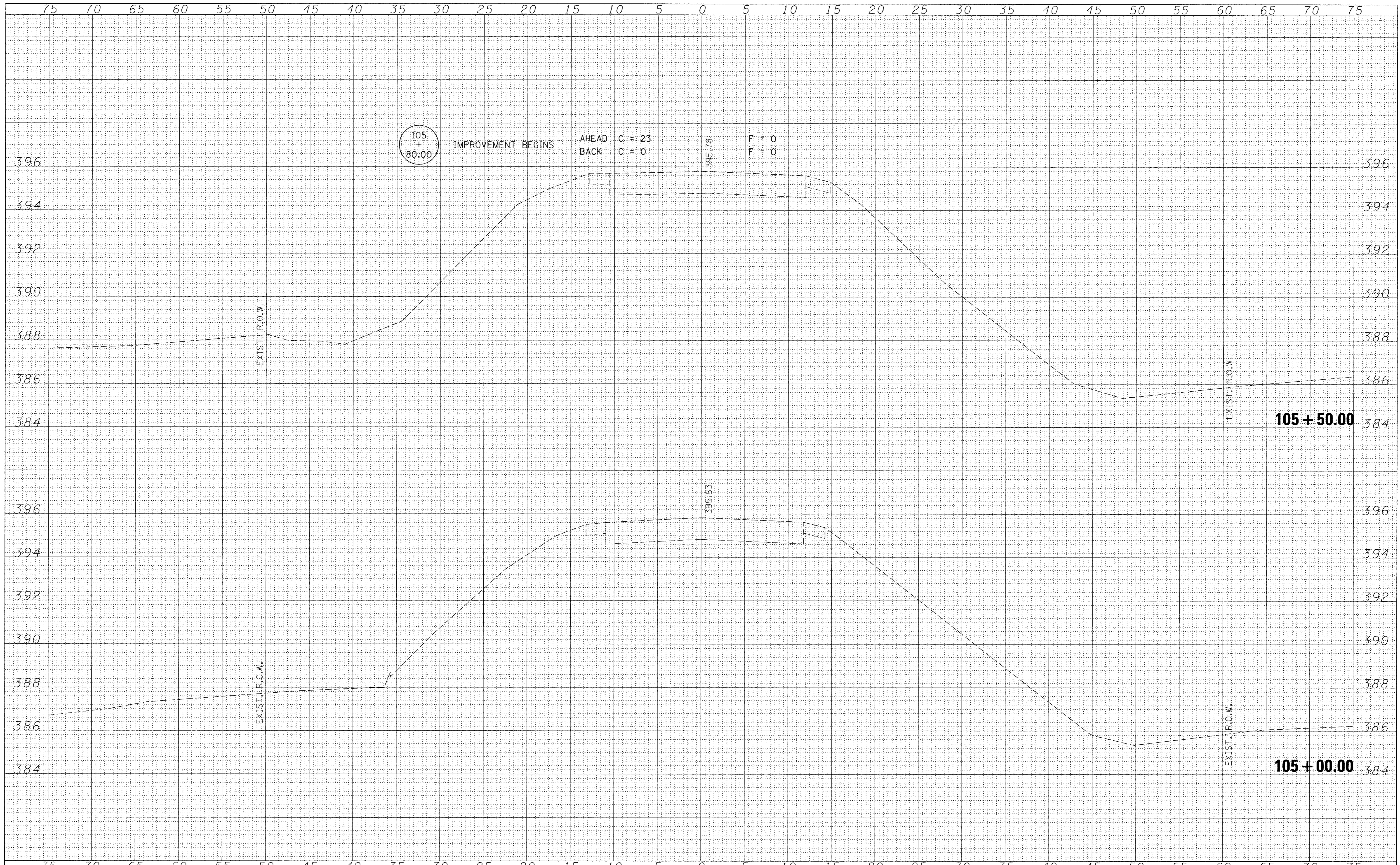
DEPT	BLOW	Qu	W%	Surf Wat Elev:	DEPT	BLOW	Qu	W%
7	0.4B	32		7	0.4B	32		
5				5				
45.6 (341.4)				45.6 (341.4)				
55.0				55.0				
2				2				
18				18				
28				28				
43.1 (338.9)				43.1 (338.9)				
100/1"				100/1"				
80.0				80.0				
85.0				85.0				
38.1 (333.9)				38.1 (333.9)				
100/1"				100/1"				
62.0				62.0				
34.5				34.5				
65.0				65.0				
90.0				90.0				
70.0				70.0				
95.0				95.0				
75.0				75.0				
100.0				100.0				

N-Std Penetr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

BORING 2-S

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BY	
FINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
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NOTE BOOK	
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 DRAWN - T.W.K.
 CHECKED - S.W.M.
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 PLOT SCALE = #SCALE#
 PLOT DATE = 12/14/2016

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 REVISIONS -
 DRAWN - T.W.K.
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 CHECKED - S.W.M.
 REVISIONS -
 DATE - 12/14/16
 REVISIONS -

STATE OF ILLINOIS
 JACKSON COUNTY HIGHWAY DEPARTMENT

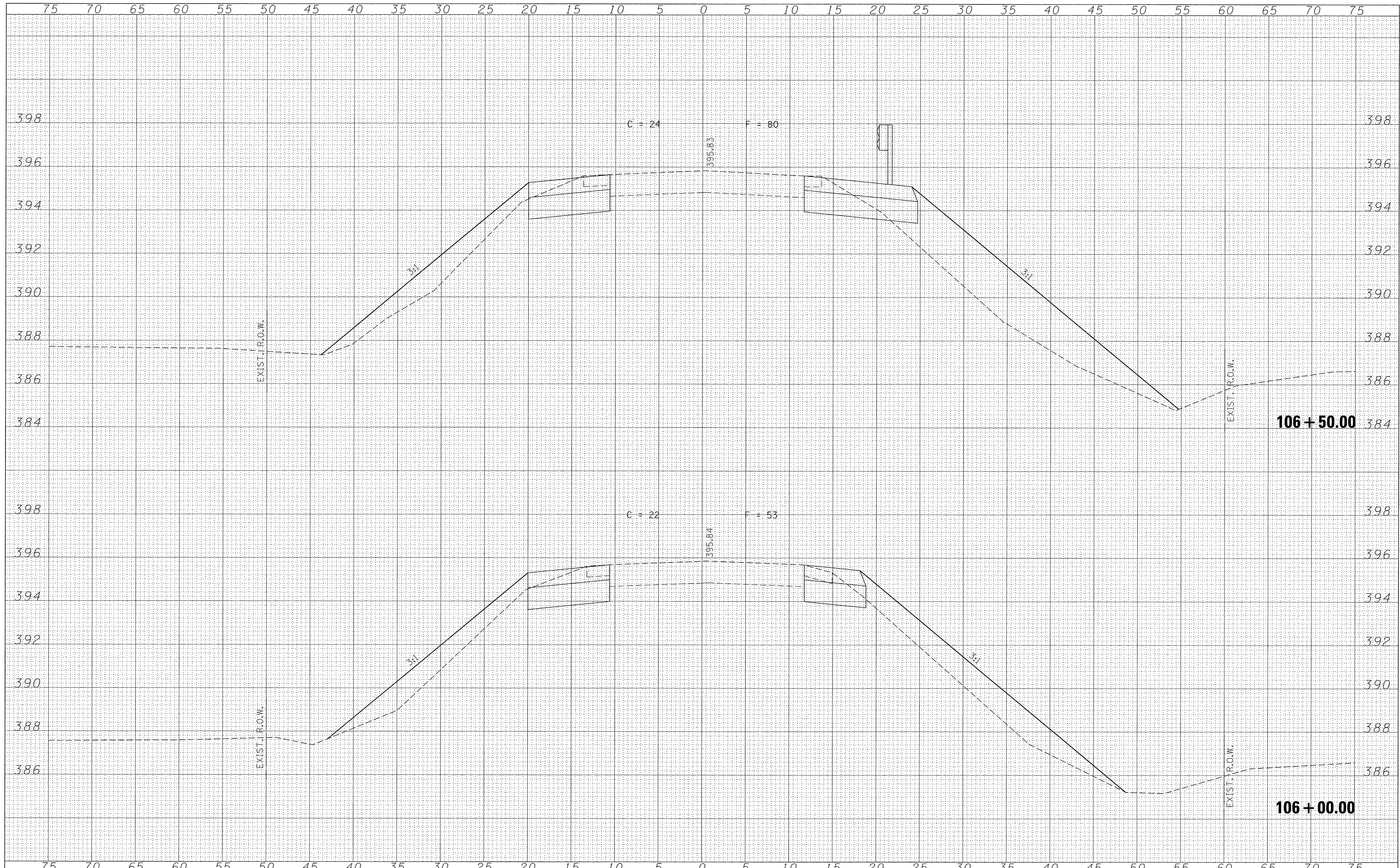
STATION CROSS SECTIONS
 CH 12 / GIANT CITY ROAD

SCALE: H5:V2
 SHEET NO. 1 OF 25 SHEETS
 STA. 105+00.00 TO STA. 105+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	46
			CONTRACT NO. 99577	
[ILLINOIS] FED. AID PROJECT BR5-919(11)				

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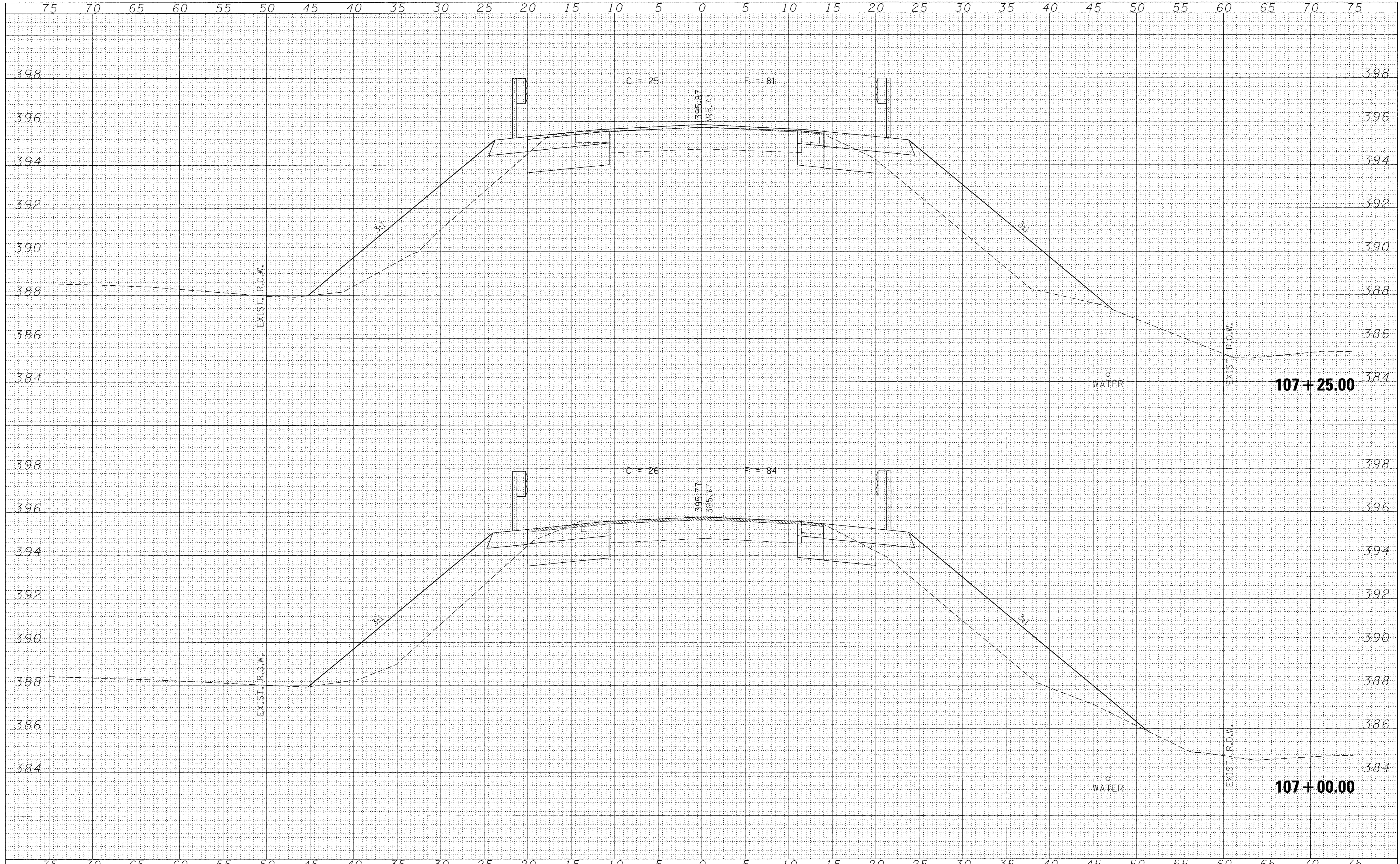
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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = #SCALE#	DRAWN - T.W.K.	REVISED -		919	07-00153-00-BR	JACKSON	70	47		
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		DATE - 12/14/16	REVISED -		SCALE: H5:V2	SHEET NO. 2 OF 25 SHEETS	STA. 106+00.00 TO STA. 106+50.00				

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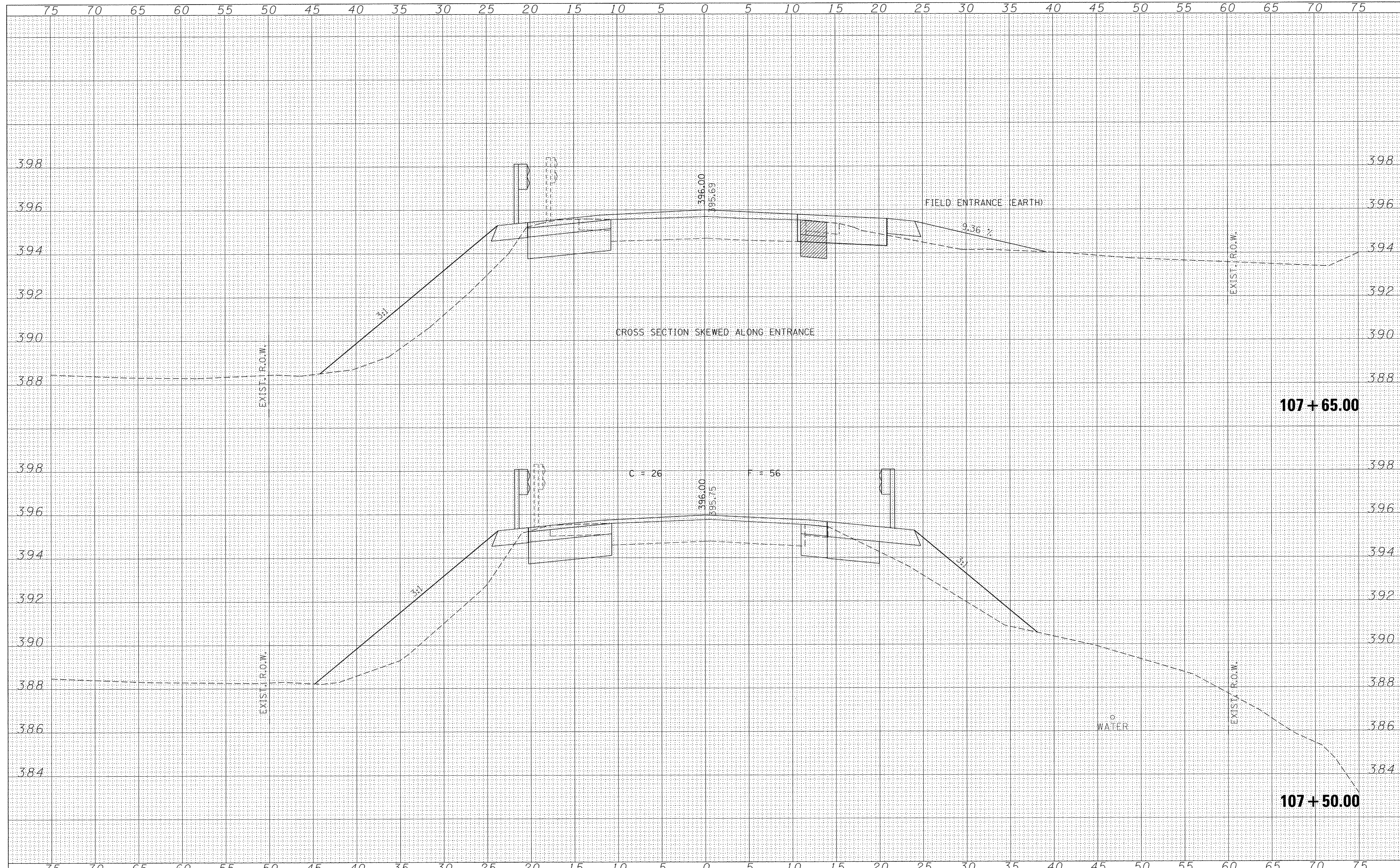
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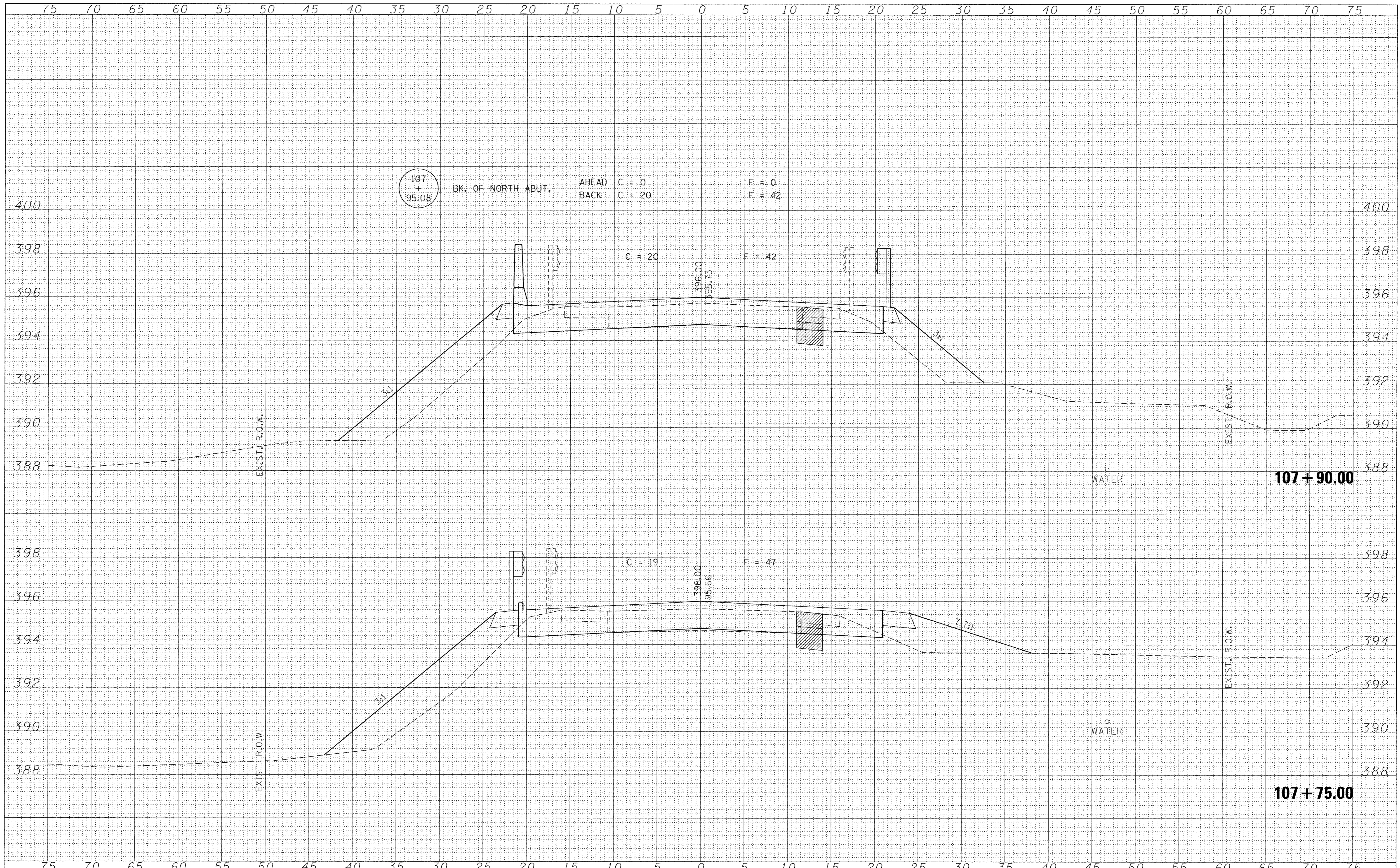
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		DATE - 12/14/16	REVISED -		SCALE: H5:V2		SHEET NO. 4 OF 25 SHEETS		STA. 107+50.00 TO STA. 107+65.03		[ILLINOIS] FED. AID PROJECT BR5-919(111)

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 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 I.S./P.E./S.E. CORP. 194-000699

USER NAME = #USER#
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 DRAWN - T.W.K.
 CHECKED - S.W.M.
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 PLOT SCALE = #SCALE#
 PLOT DATE = 12/14/2016

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STATE OF ILLINOIS
 JACKSON COUNTY HIGHWAY DEPARTMENT

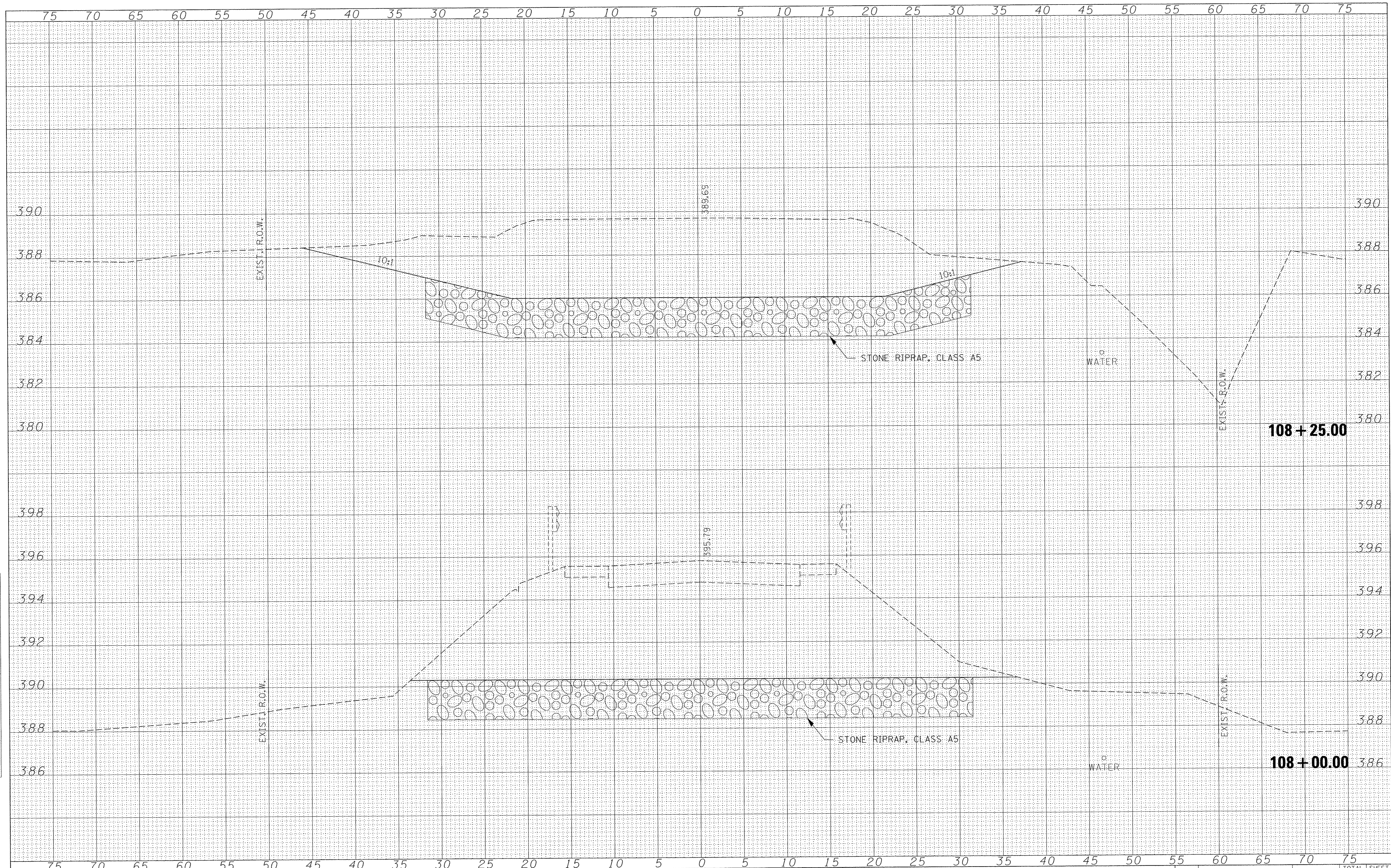
STATION CROSS SECTIONS
 CH 12 / GIANT CITY ROAD

SCALE: H5:V2 SHEET NO. 5 OF 25 SHEETS STA. 107+75.00 TO STA. 107+90.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	50
			CONTRACT NO. 99577	

BY	DATE
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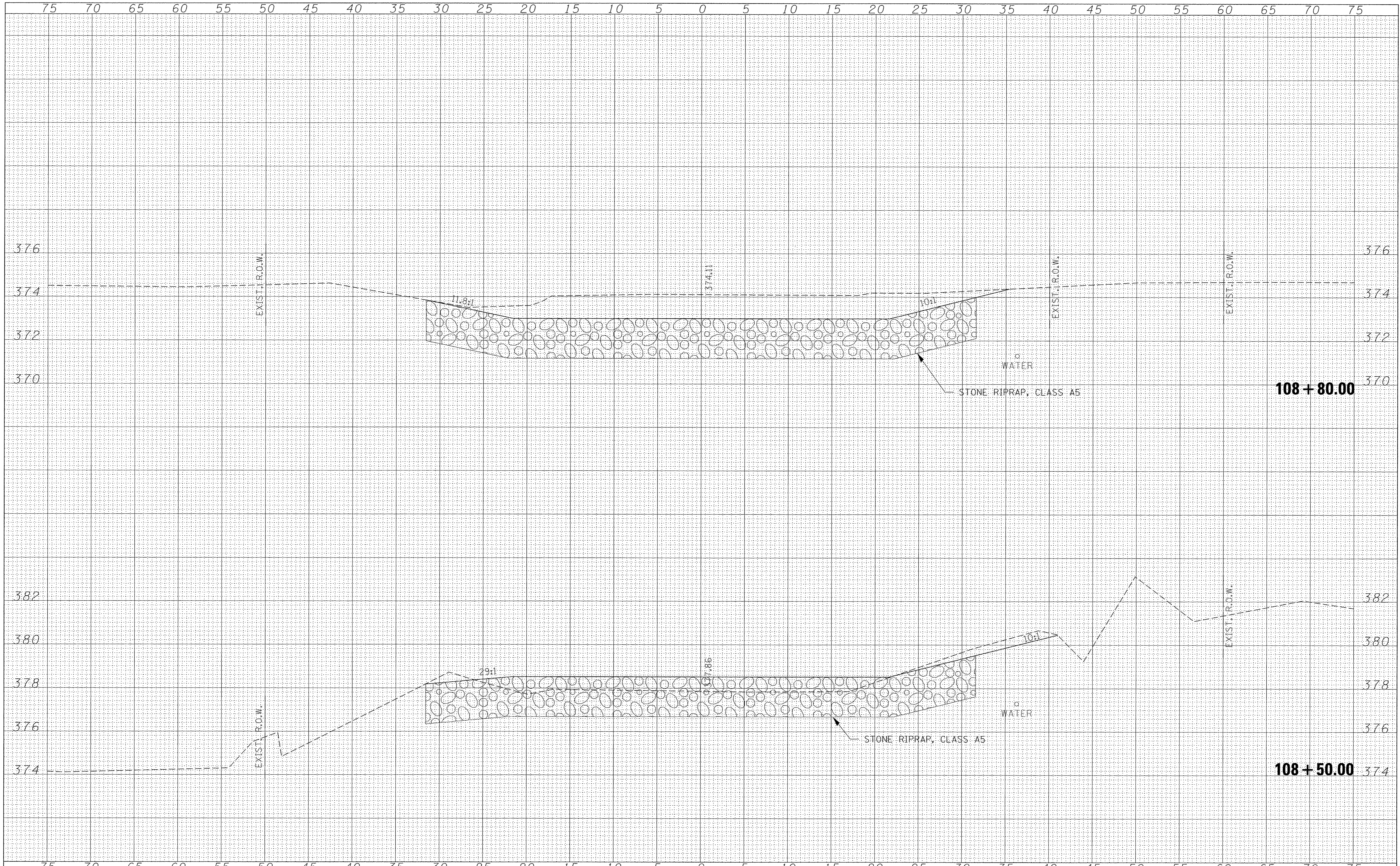
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HAMPTON, LENZINI AND RENWICK, INC. 3095 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000059		DRAWN - T.W.K.	REVISED -		919	07-00153-00-BR	JACKSON	70	51	CONTRACT NO. 99577		
PLOT SCALE = #SCALE#		CHECKED - S.W.M.	REVISED -		SCALE: H5:V2		SHEET NO. 6 OF 25 SHEETS		STA. 108+00.00 TO STA. 108+25.00		ILLINOIS FED. AID PROJECT BR5-9191111	
PLOT DATE = 12/14/2016		DATE - 12/14/16	REVISED -									

DATE	
BY	
FINAL SURVEY	
PLANNING	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
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ORIGINAL SURVEY	
PLANNING	
NOTE BOOK	
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 CHECKED - S.W.M.
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 PLOT SCALE = #SCALE#
 PLOT DATE = 12/14/2016

DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 12/14/16
 REVISED -
 REVISED -
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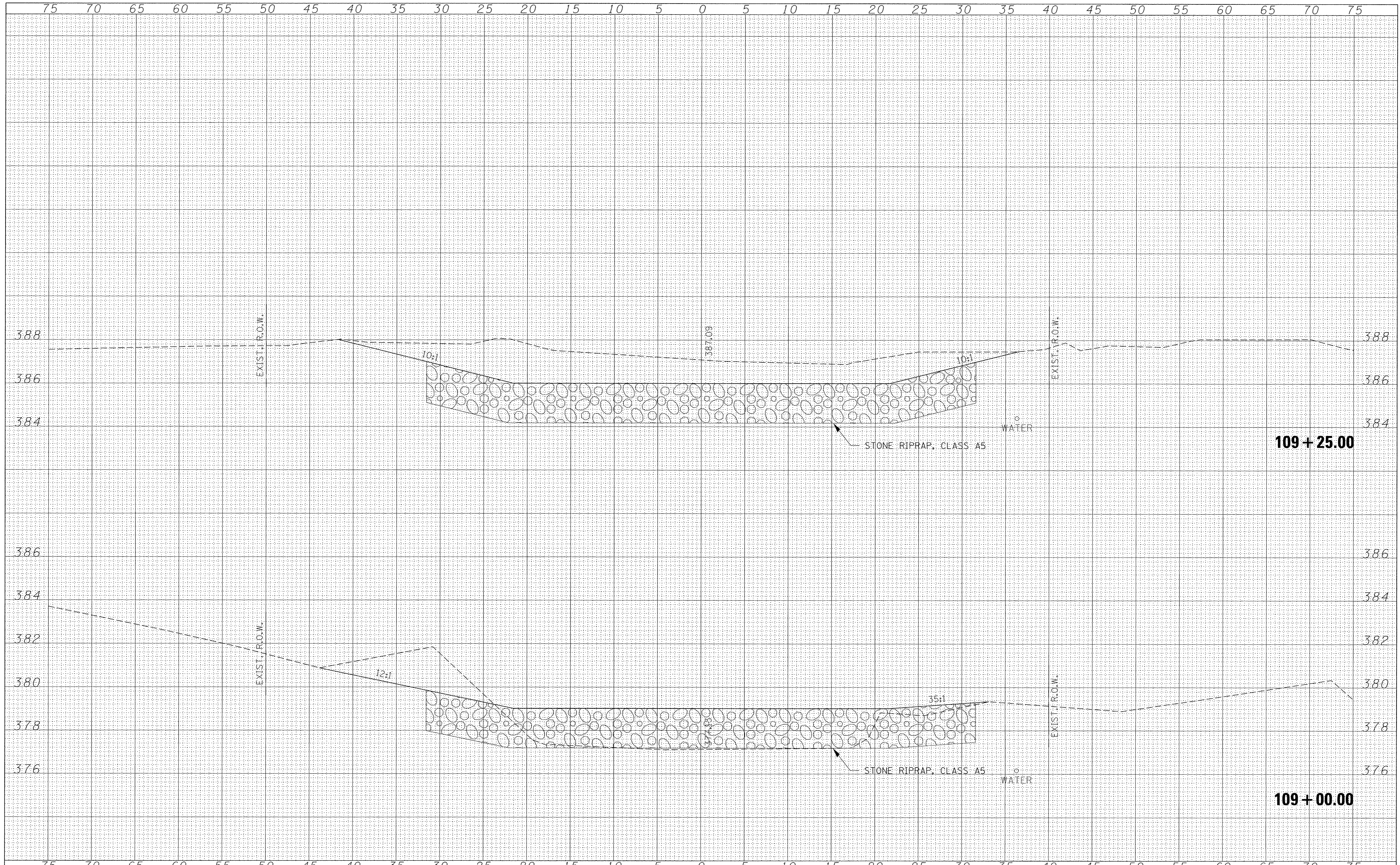
**STATE OF ILLINOIS
 JACKSON COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS
 CH 12 / GIANT CITY ROAD**
 SCALE: H5:V2 SHEET NO. 7 OF 25 SHEETS STA. 108+50.00 TO STA. 108+80.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	52
			CONTRACT NO. 99577	
[ILLINOIS] FED. AID PROJECT BRS-919(111)				

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	



FILE NAME = 000340-shr-sxs.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 3065 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 194.000699

USER NAME = #USER#
 DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 12/14/16
 PLOT SCALE = #SCALE#
 PLOT DATE = 12/14/2016

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STATE OF ILLINOIS
 JACKSON COUNTY HIGHWAY DEPARTMENT

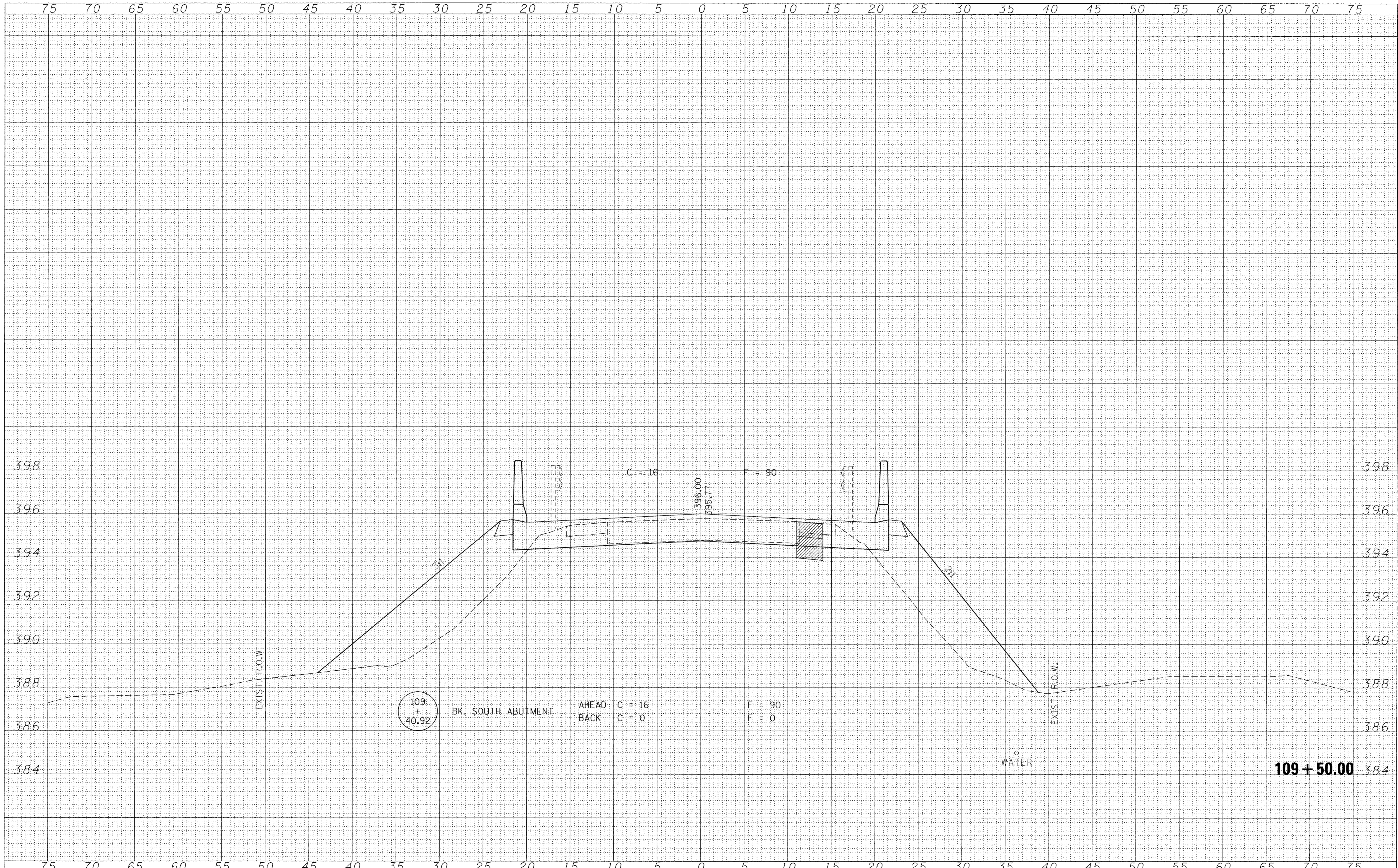
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 SHEET NO. 8 OF 25 SHEETS
 STA. 109+00.00 TO STA. 109+25.00

STATION CROSS SECTIONS
 CH 12 / GIANT CITY ROAD

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	53
			CONTRACT NO. 99577	

DATE	
BY	
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NOTE BOOK	
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TEMPLATE	
AREAS CHECKED	

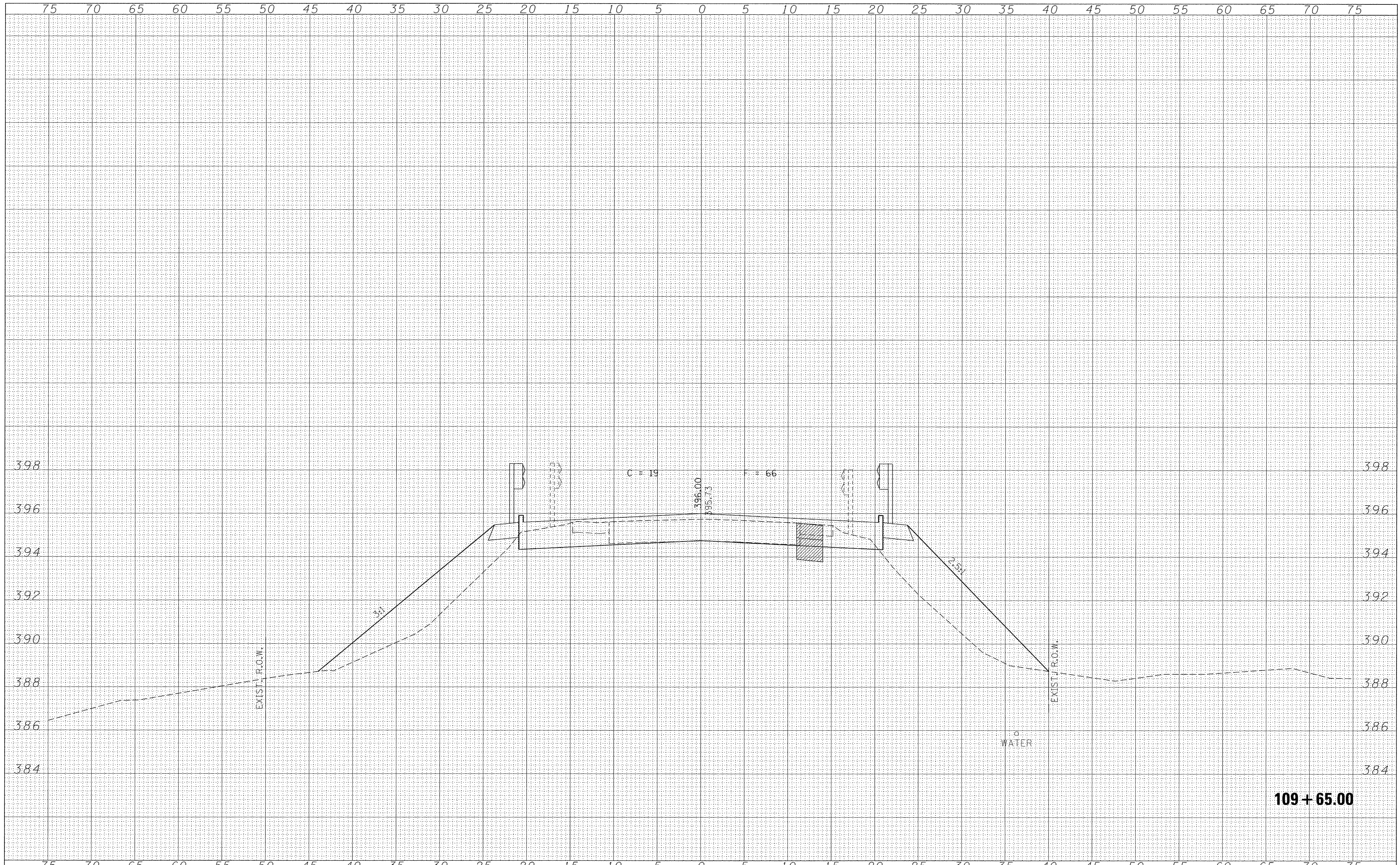
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BY	
ORIGINAL SURVEY	
NOTE BOOK	
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SURVEYED	
TEMPLATE	
AREAS CHECKED	



FILE NAME = 080340-sht-axs.dgn	USER NAME = \$USER\$	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS JACKSON COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS CH 12 / GIANT CITY ROAD		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3055 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-009859		DRAWN - T.W.K.	REVISED -		919	07-00153-00-BR	JACKSON	70	54		
PLOT SCALE = \$SCALE\$		CHECKED - S.W.M.	REVISED -		CONTRACT NO. 99577						
PLOT DATE = 12/14/2016		DATE - 12/14/16	REVISED -		SCALE: H5:V2		SHEET NO. 9 OF 25 SHEETS		STA. 109+50.00 TO STA. 109+50.00		ILLINOIS FED. AID PROJECT BR5-919(111)

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

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



109+65.00

FILE NAME = 000340-sh1-sxs.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LE/PE/SE CORP. 194.00969

USER NAME = #USER#
 PLOT SCALE = #SCALE#
 PLOT DATE = 12/14/2016

DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 12/14/16

REVISED -
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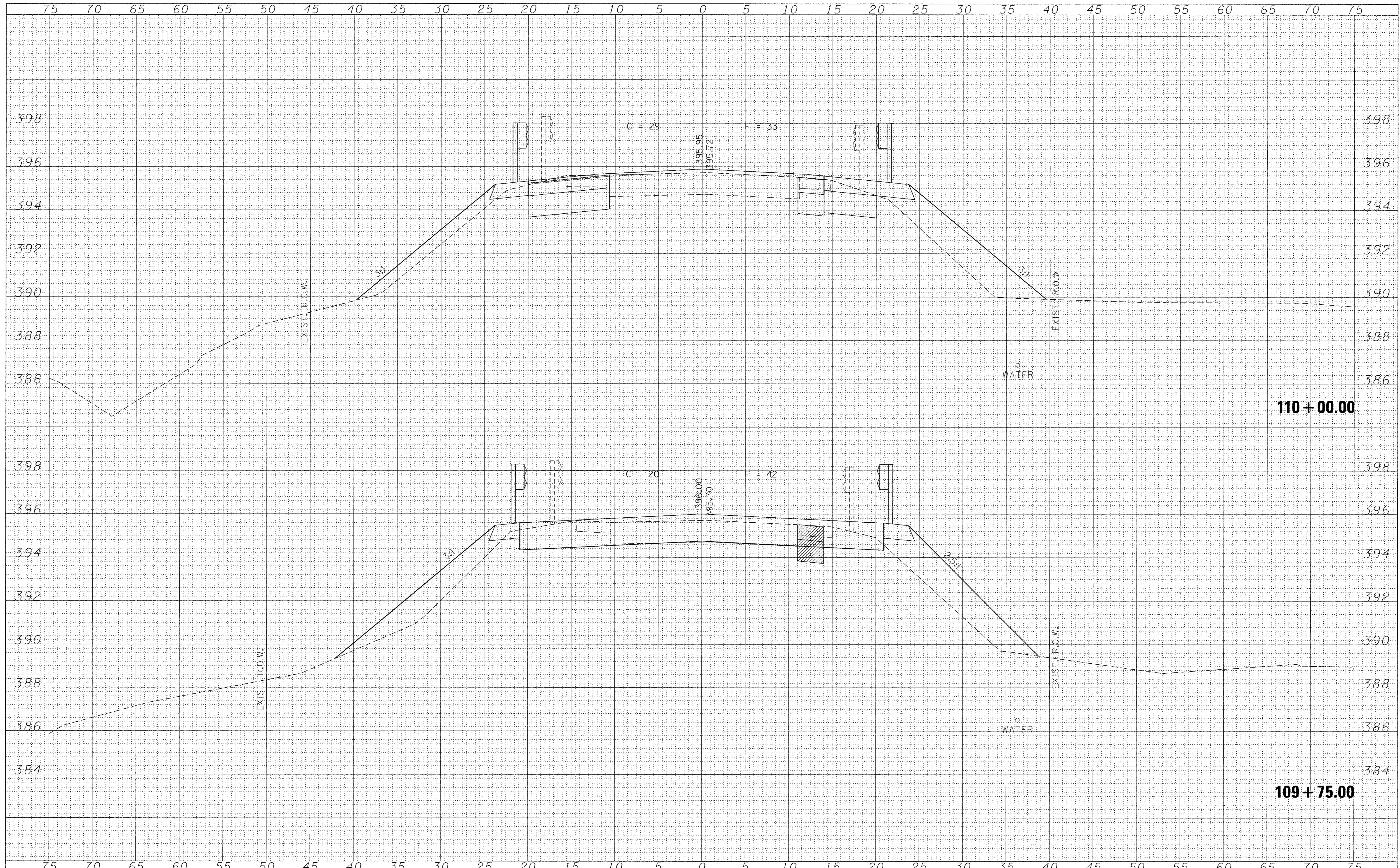
**STATE OF ILLINOIS
 JACKSON COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS
 CH 12 / GIANT CITY ROAD**
 SCALE: H5:V2 SHEET NO. 10 OF 25 SHEETS STA. 109+65.00 TO STA. 109+65.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	55
			CONTRACT NO.	99577

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME = 080340-sht-sxs.dgn
 USER NAME = #USER#
 DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 12/14/16

REVISIED -
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DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 12/14/16

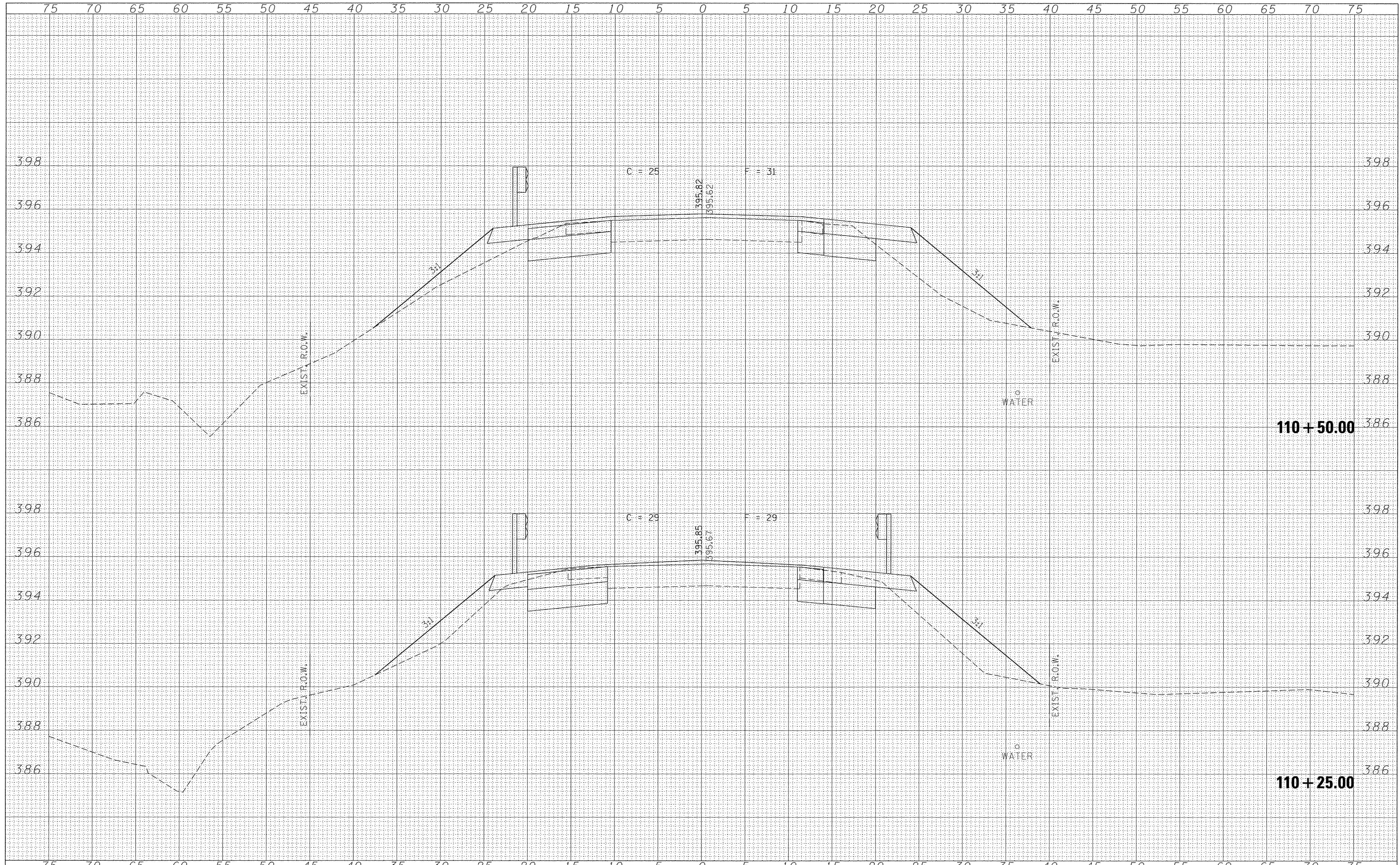
**STATE OF ILLINOIS
 JACKSON COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS
 CH 12 / GIANT CITY ROAD**
 SCALE: HS=V2 SHEET NO. 11 OF 25 SHEETS STA. 109+75.00 TO STA. 110+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	56
			CONTRACT NO. 99577	
ILLINOIS FED. AID PROJECT BR5-919(11)				

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	
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DATE	
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ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	
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DESIGNED - J.W.F.	REVISOR -
DRAWN - T.W.K.	REVISOR -
CHECKED - S.W.M.	REVISOR -
DATE - 12/14/16	REVISOR -
PLOT SCALE = *SCALE*	
PLOT DATE = 12/14/2016	

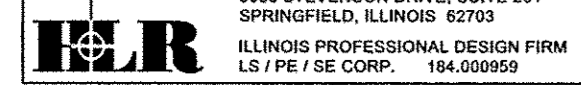
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DRAWN - T.W.K.	REVISOR -
CHECKED - S.W.M.	REVISOR -
DATE - 12/14/16	REVISOR -

**STATE OF ILLINOIS
JACKSON COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS
CH 12 / GIANT CITY ROAD**

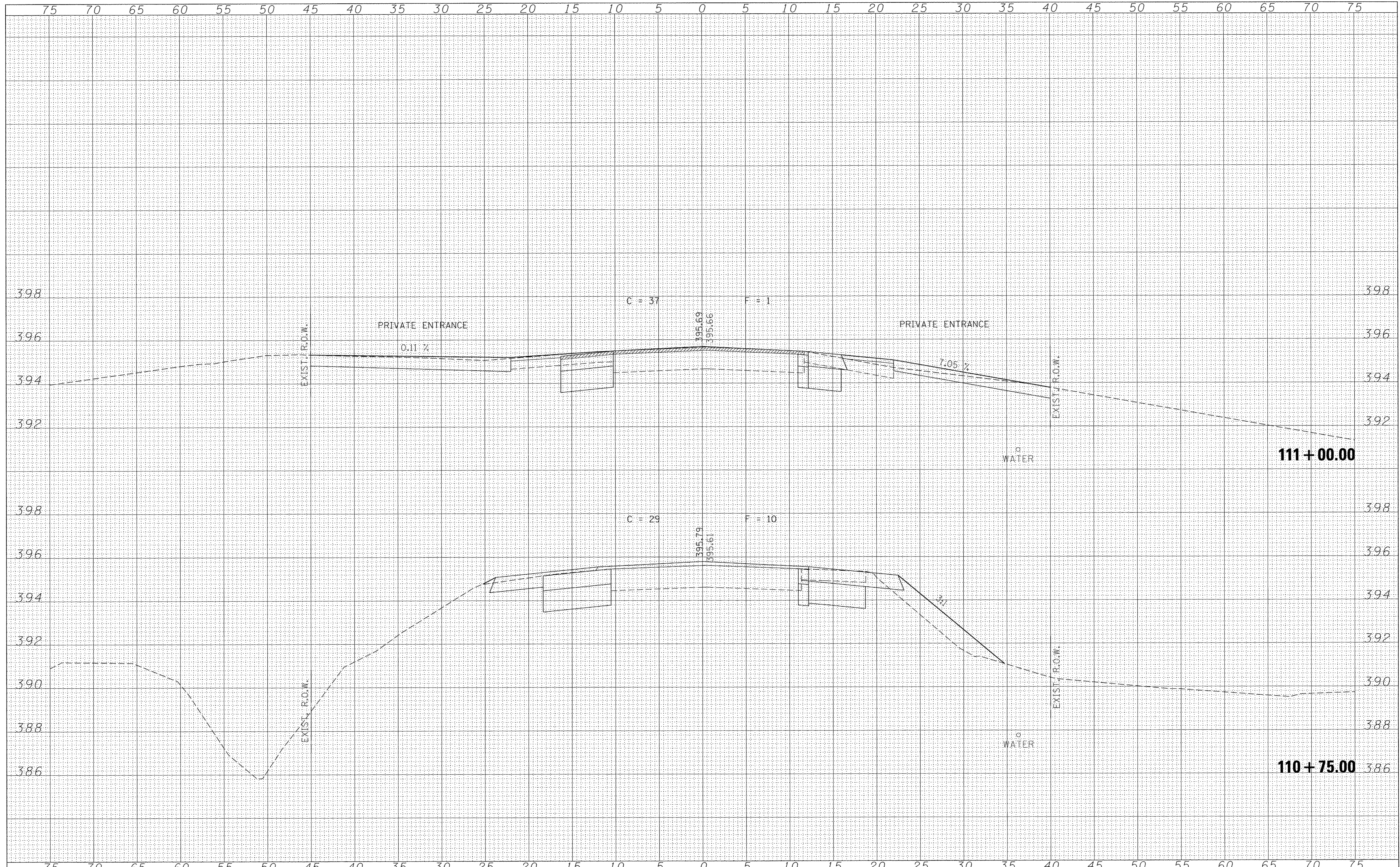
SCALE: H5:V2 SHEET NO. 12 OF 25 SHEETS STA. 110+25.00 TO STA. 110+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	57
			CONTRACT NO. 99577	



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FINAL SURVEY	
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NOTE BOOK	
AREAS CHECKED	
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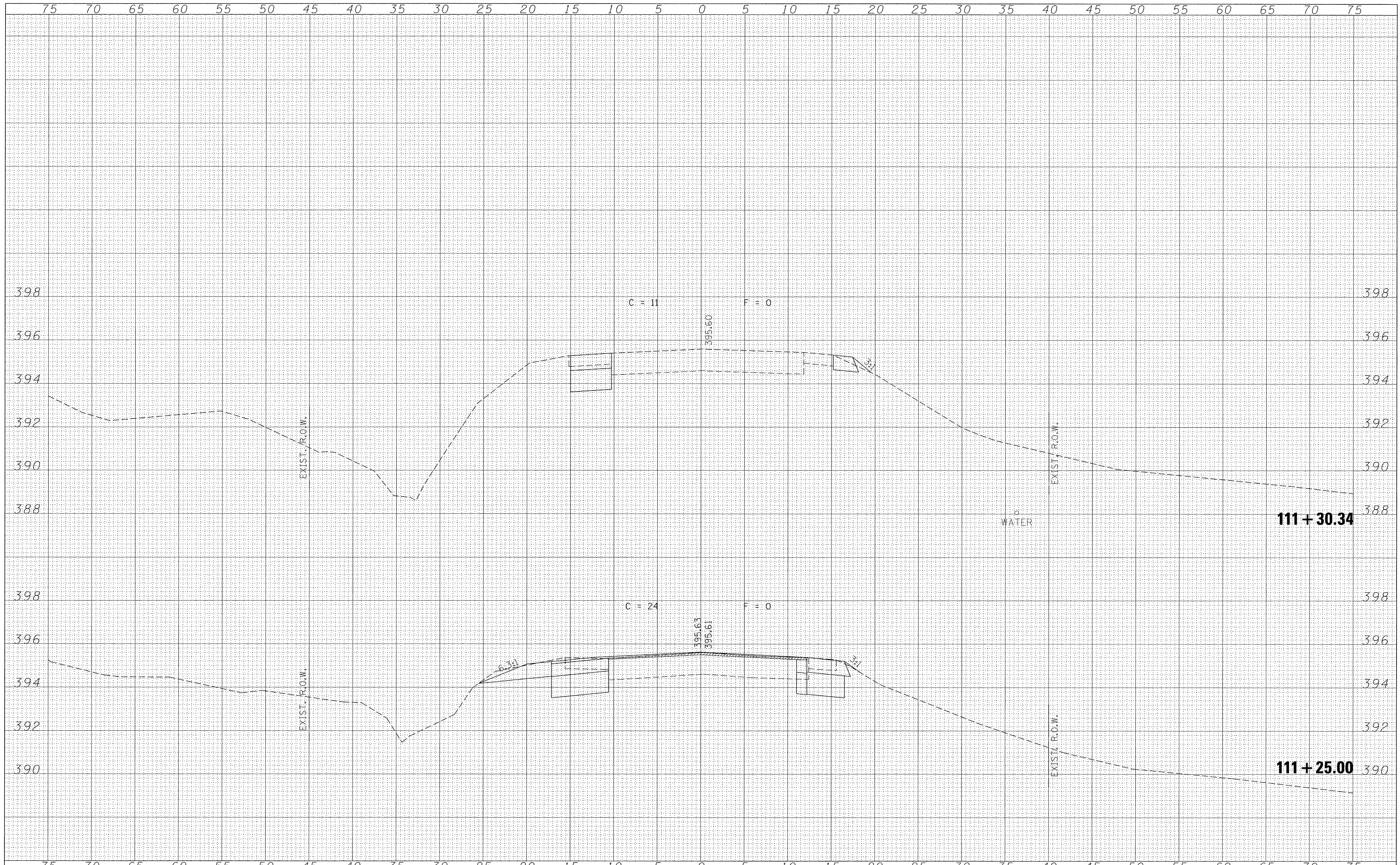
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NOTE BOOK	
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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62705		DRAWN - T.W.K.	REVISED -		919	07-00153-00-BR	JACKSON	70	58		
ILR ILLINOIS PROFESSIONAL DESIGN FIRM 13 / PE / SE CORP. 154-009959		CHECKED - S.W.M.	REVISED -		CONTRACT NO. 99577		ILLINOIS FED. AID PROJECT BR5-919(111)				
		DATE - 12/14/16	REVISED -		SCALE: H5:V2	SHEET NO. 13 OF 25 SHEETS	STA. 110+75.00	TO STA. 111+00.00			

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
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AREAS CHECKED	
AREAS	
TEMPLATE	

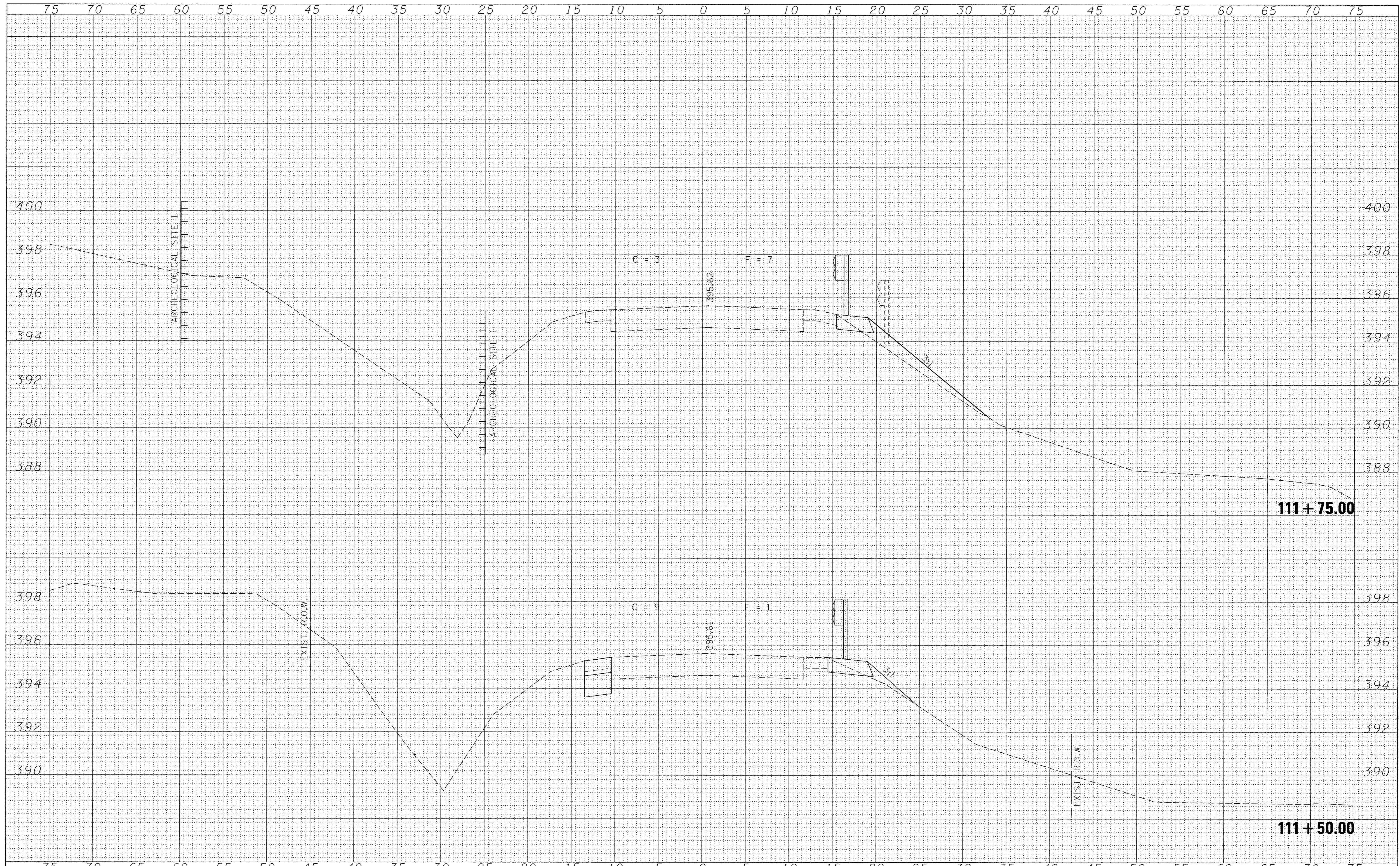
DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
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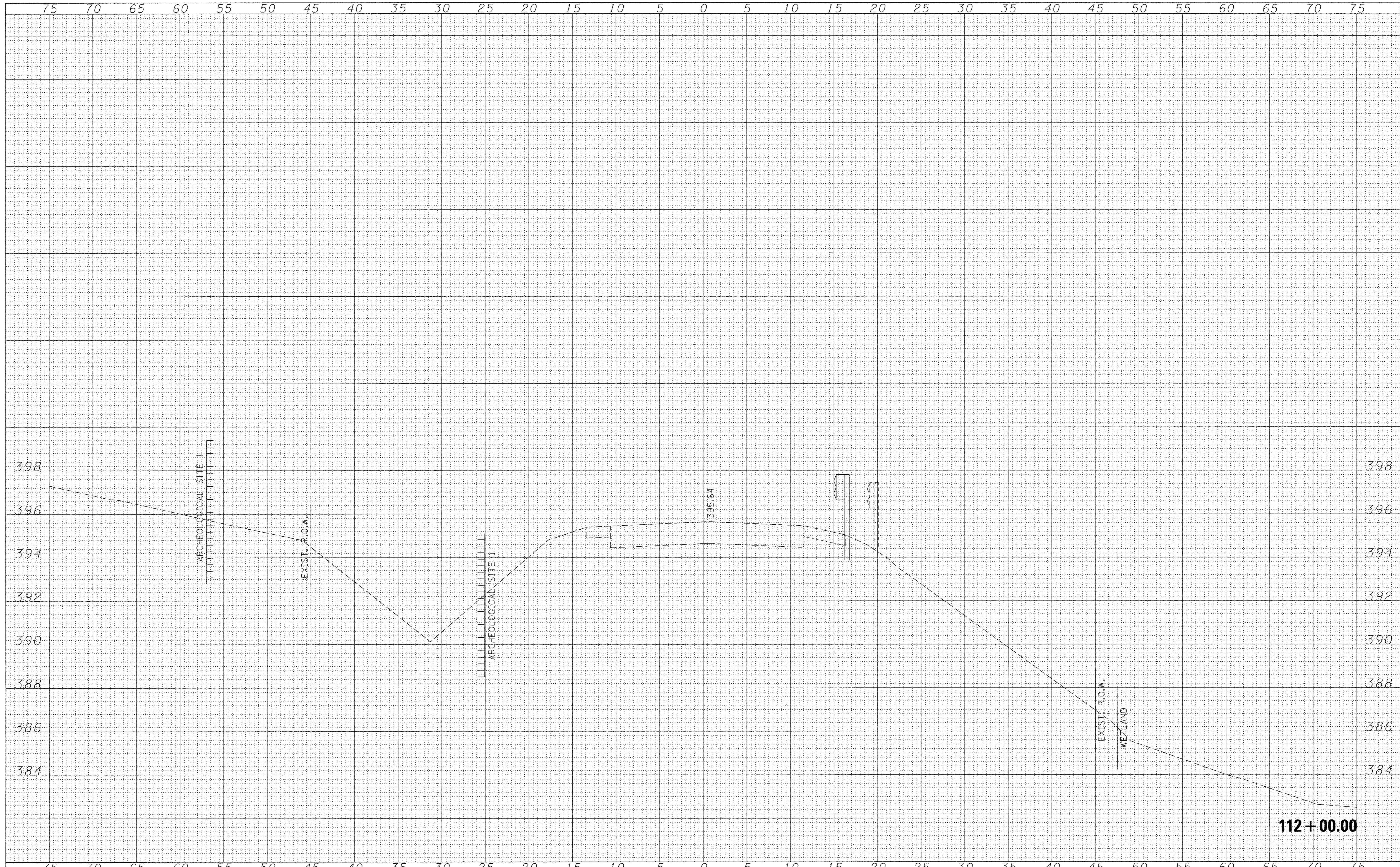
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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 301 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM ILL. REG. NO. 191.000959	PLOT SCALE = *SCALE*	DRAWN - T.W.K.	REVISED -		919	07-00153-00-BR	JACKSON	70	59		
PLOT DATE = 12/14/2016	DATE = 12/14/16	CHECKED - S.W.M.	REVISED -		SCALE: HS:V2		SHEET NO. 14 OF 25 SHEETS		STA. 111+25.00 TO STA. 111+30.34	CONTRACT NO. 99577	
		DATE = 12/14/16	REVISED -		ILLINOIS FED. AID PROJECT BRS-919(11)						

BY	DATE
SURVEYED	
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BY	DATE
ORIGINAL SURVEY	
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AREAS	
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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184-000059	PLOT SCALE = #SCALE#	DRAWN - T.W.K.	REVISED -		919	07-00153-00-BR	JACKSON	70	60	CONTRACT NO. 99577	
	PLOT DATE = 12/14/2016	CHECKED - S.W.M.	REVISED -		SCALE: H5=V2		SHEET NO. 15 OF 25 SHEETS		STA. 111+50.00 TO STA. 111+75.00		ILLINOIS FED. AID PROJECT BR5-919(11)
		DATE - 12/14/16	REVISED -								



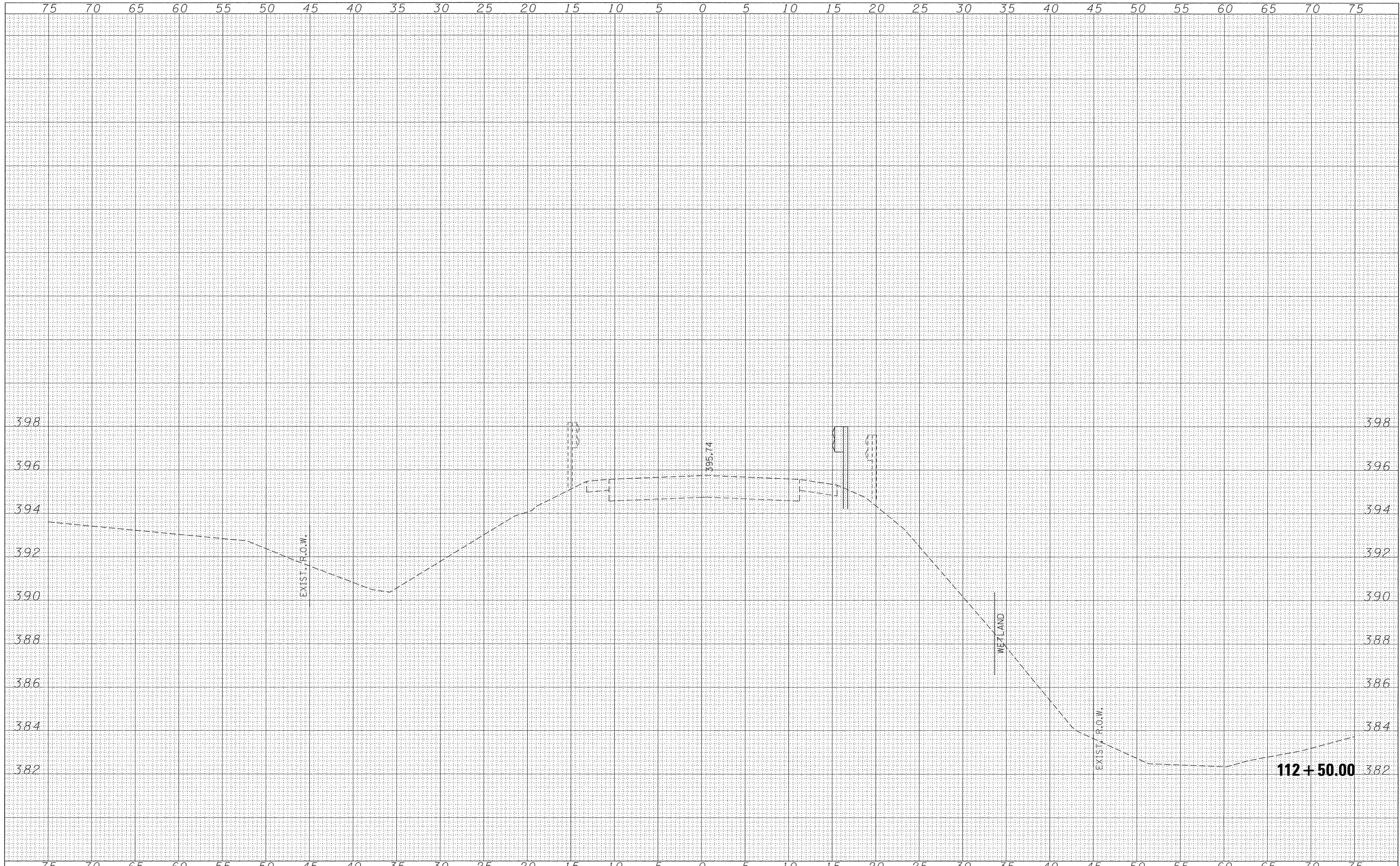
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NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
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ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS	
	CHECKED	

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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = #SCALE#	DRAWN - T.W.K.	REVISED -		919	07-00153-00-BR	JACKSON	70	61			
PLOT DATE = 12/14/2016	DATE - 12/14/16	CHECKED - S.W.M.	REVISED -		SCALE: H5:V2		SHEET NO. 16 OF 25 SHEETS		STA. 112+00.00 TO STA. 112+00.00		CONTRACT NO. 99577	
					ILLINOIS FED. AID PROJECT BR5-919(111)							

FINAL	SURVEYED	DATE
SURVEY	PLotted	BY
NOTE BOOK	TEMPLATE	
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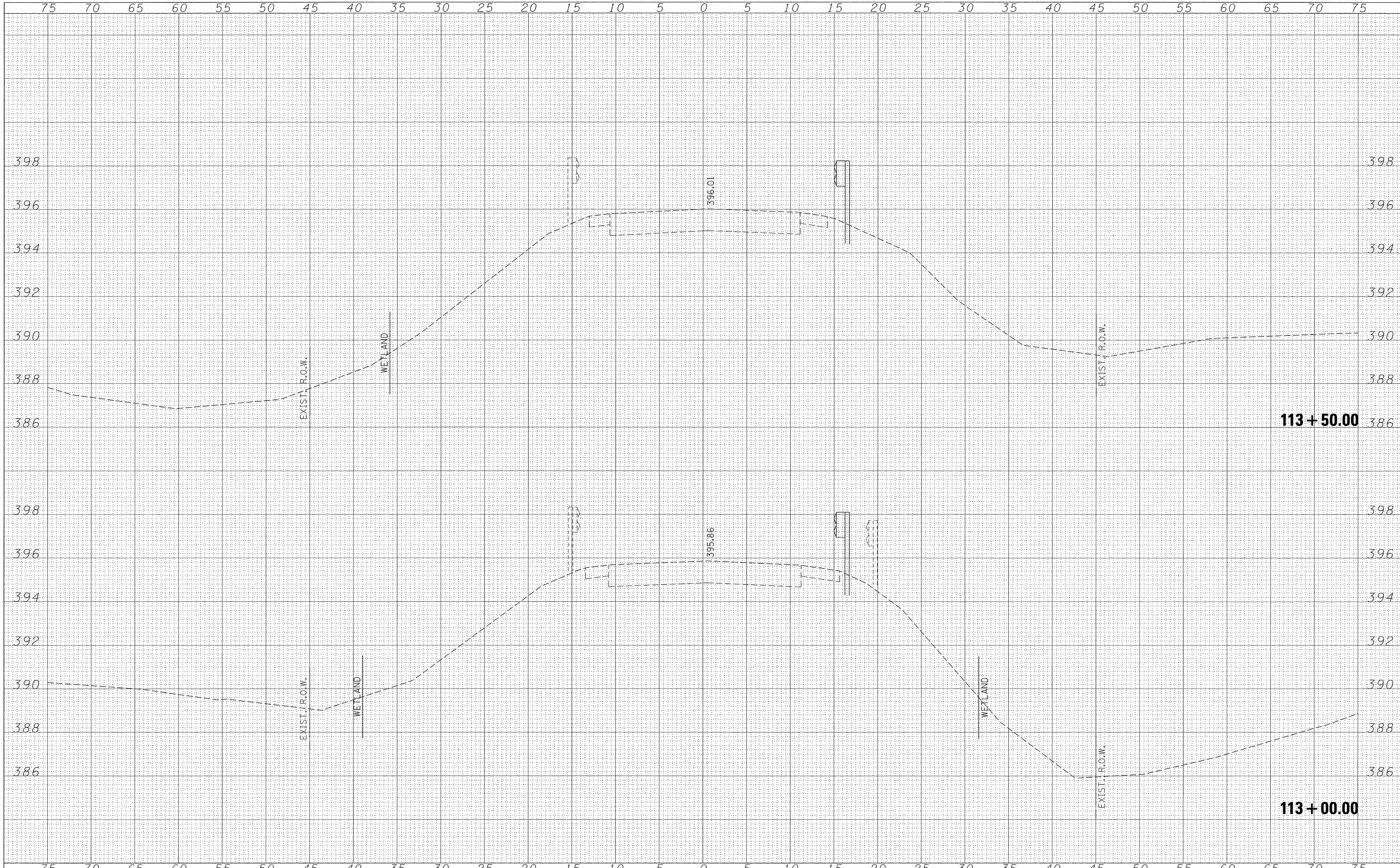
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AREAS	AREAS	
CHECKED	CHECKED	
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<p>HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009959</p>	PLOT SCALE = #SCALE#	DRAWN - T.W.K.	REVISED -		919	07-00153-00-BR	JACKSON	70	62		
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		DATE - 12/14/16	REVISED -				ILLINOIS FED. AID PROJECT BRS-919111				

FINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
TEMPLATE	
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ORIGINAL SURVEY	DATE
SURVEYED	BY
NOTE BOOK	
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 DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 12/14/16

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**STATE OF ILLINOIS
 JACKSON COUNTY HIGHWAY DEPARTMENT**

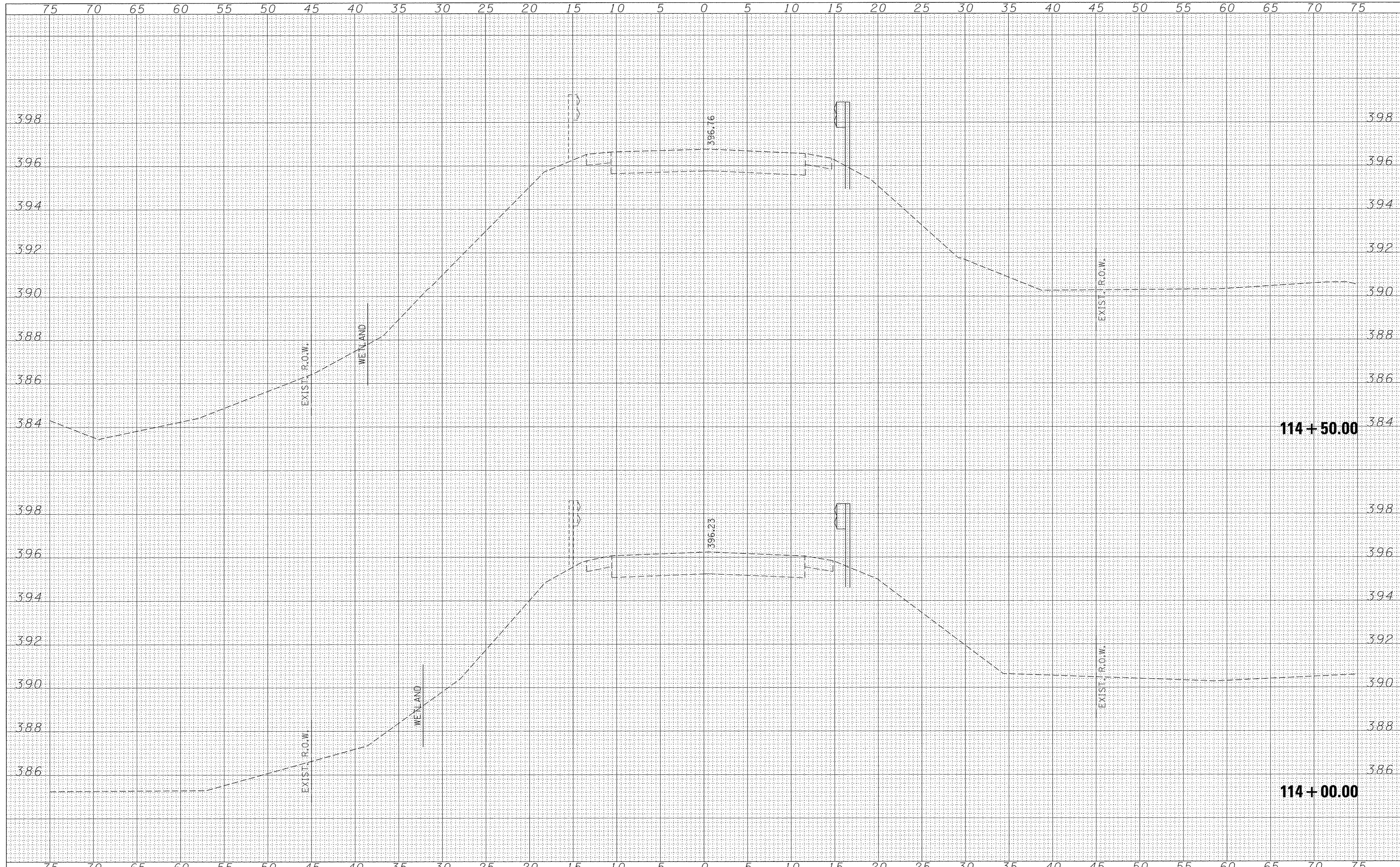
**STATION CROSS SECTIONS
 CH 12 / GIANT CITY ROAD**

SCALE: H5:V2 SHEET NO. 18 OF 25 SHEETS STA. 113+00.00 TO STA. 113+50.00

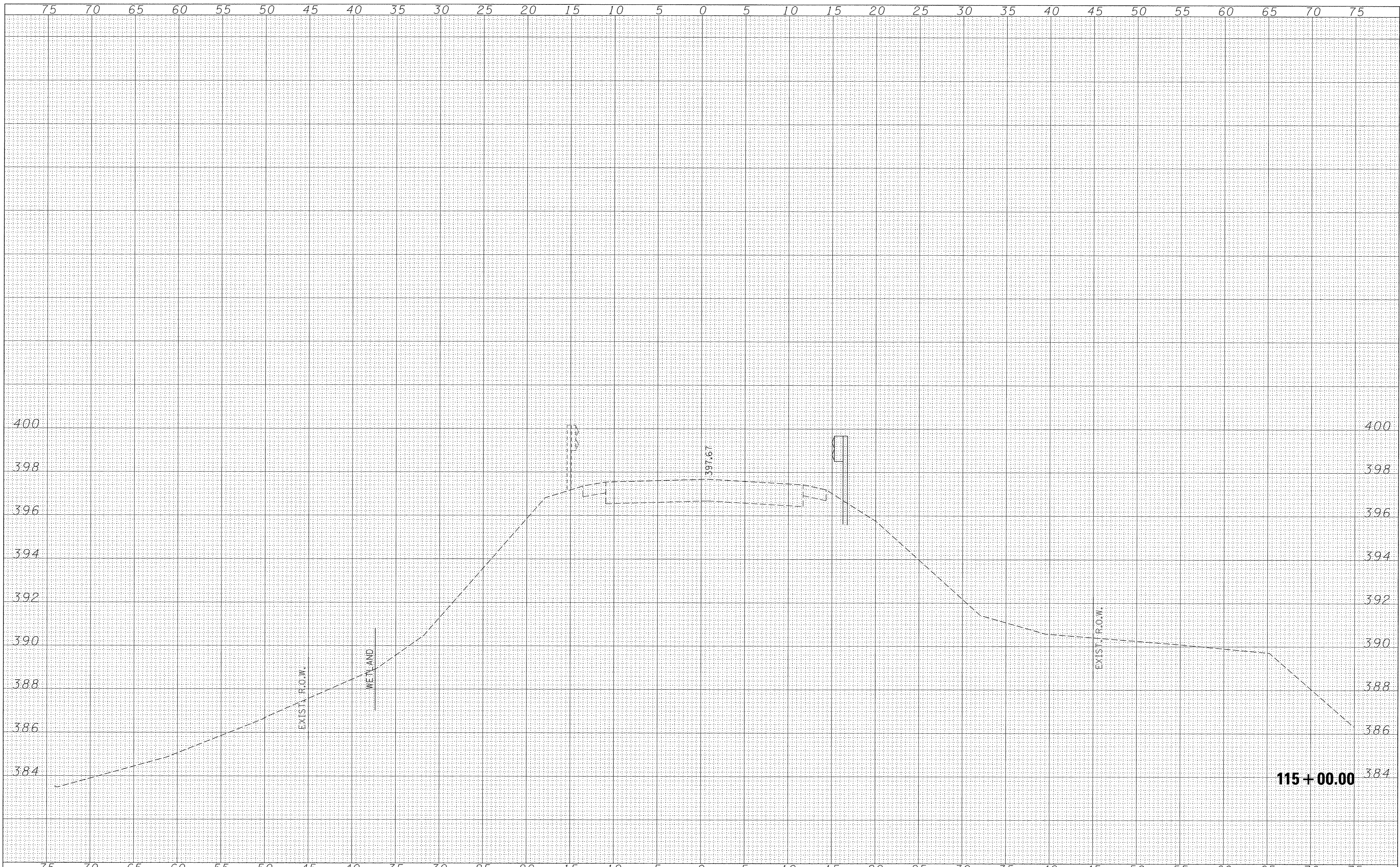
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	63
			CONTRACT NO. 99577	
ILLINOIS FED. AID PROJECT BRS-919(111)				

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

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



FILE NAME = 080340-sht-sss.dgn	USER NAME = \$USER\$	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS JACKSON COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS CH 12 / GIANT CITY ROAD			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3095 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - T.W.K.	REVISED -		919	07-00153-00-BR	JACKSON	70	64			
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -		CONTRACT NO. 99577			ILLINOIS FED. AID PROJECT BRS-9191111				
	PLOT DATE = 12/14/2016	DATE - 12/14/16	REVISED -		SCALE: H5:V2	SHEET NO. 19 OF 25 SHEETS	STA. 114+00.00 TO STA. 114+50.00					

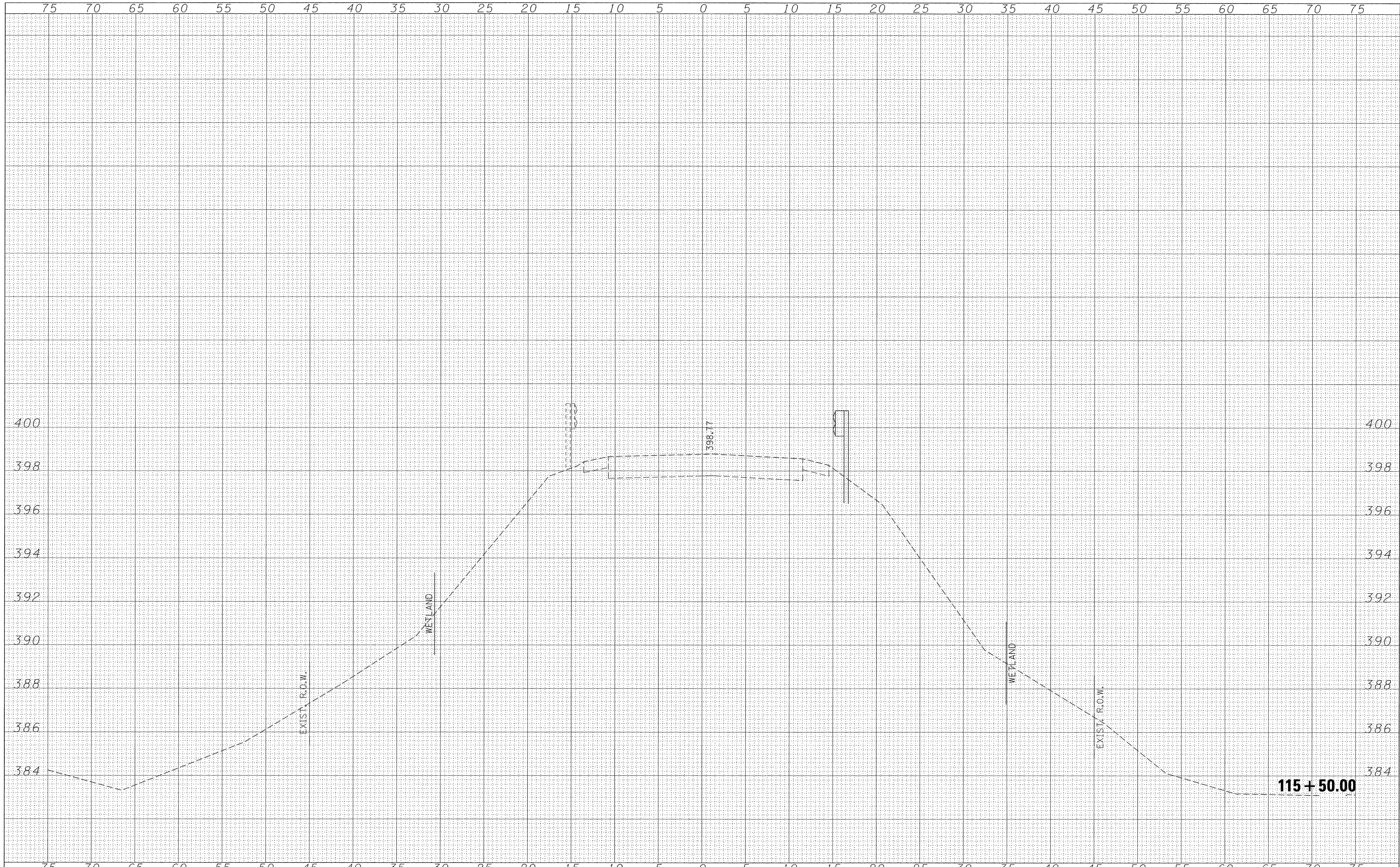


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NO.	TEMPLATE		
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NOTE BOOK	PLOTTED		
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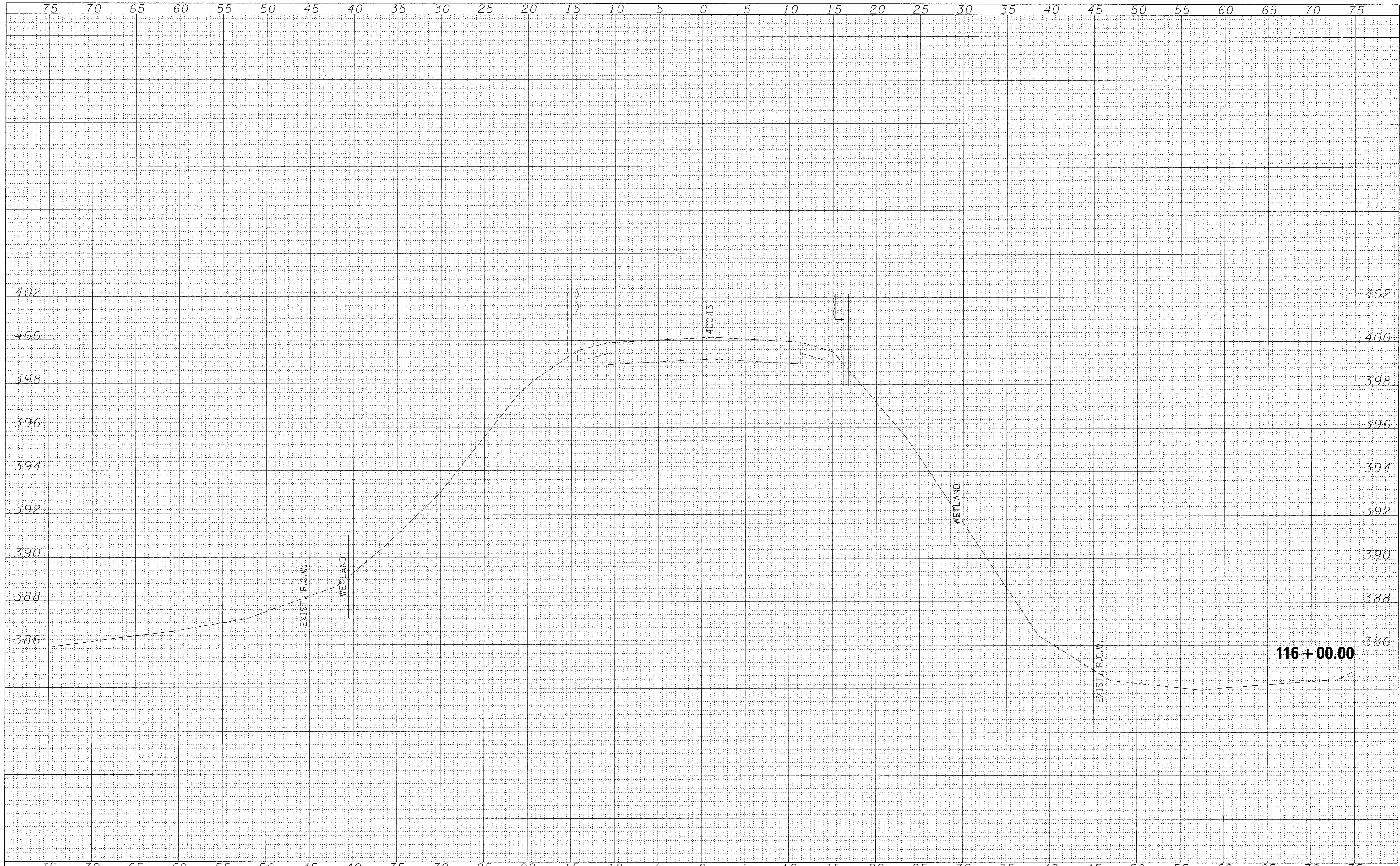
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NOTE BOOK	PLOTTED		
NO.	AREAS		
	CHECKED		



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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-000093	PLOT SCALE = #SCALE#	DRAWN - T.W.K.	REVISED -		919	07-00153-00-BR	JACKSON	70	66				
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		DATE - 12/14/16	REVISED -		ILLINOIS FED. AID PROJECT BRS-9190111								
				SCALE: H5:V2	SHEET NO. 21 OF 25 SHEETS	STA. 115+50.00	TO STA. 115+50.00						

DATE	
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TEMPERATURE	
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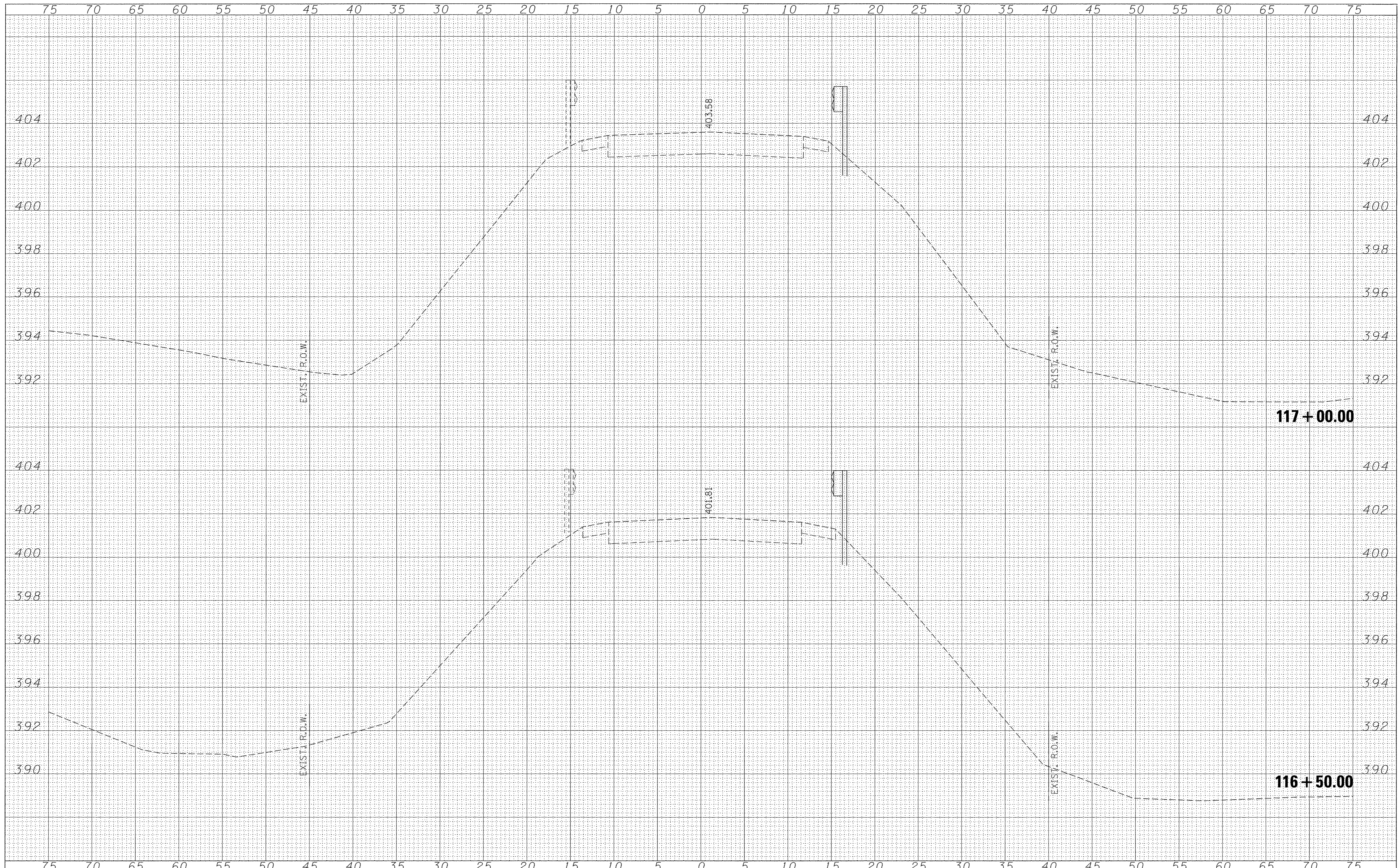
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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE COMP. 184-000059	PLOT SCALE = #SCALE#	DRAWN - T.W.K.	REVISED -			919	07-00153-00-BR	JACKSON	70	67	
PLOT DATE = 12/14/2016	DATE - 12/14/16	CHECKED - S.W.M.	REVISED -			CONTRACT NO. 99577					
		DATE - 12/14/16	REVISED -			ILLINOIS FED. AID PROJECT BRS-919(111)					
				SCALE: H5:V2	SHEET NO. 22 OF 25 SHEETS	STA. 116+00.00	TO STA. 116+00.00				

DATE	
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NOTE BOOK	
AREAS CHECKED	
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DATE	
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ORIGINAL SURVEY	
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NOTE BOOK	
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DRAWN - T.W.K.	REVISIONS
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DATE - 12/14/16	REVISIONS
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PLLOT DATE = 12/14/2016	

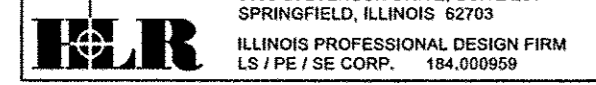
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DRAWN - T.W.K.	REVISIONS
CHECKED - S.W.M.	REVISIONS
DATE - 12/14/16	REVISIONS

**STATE OF ILLINOIS
JACKSON COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS
CH 12 / GIANT CITY ROAD**

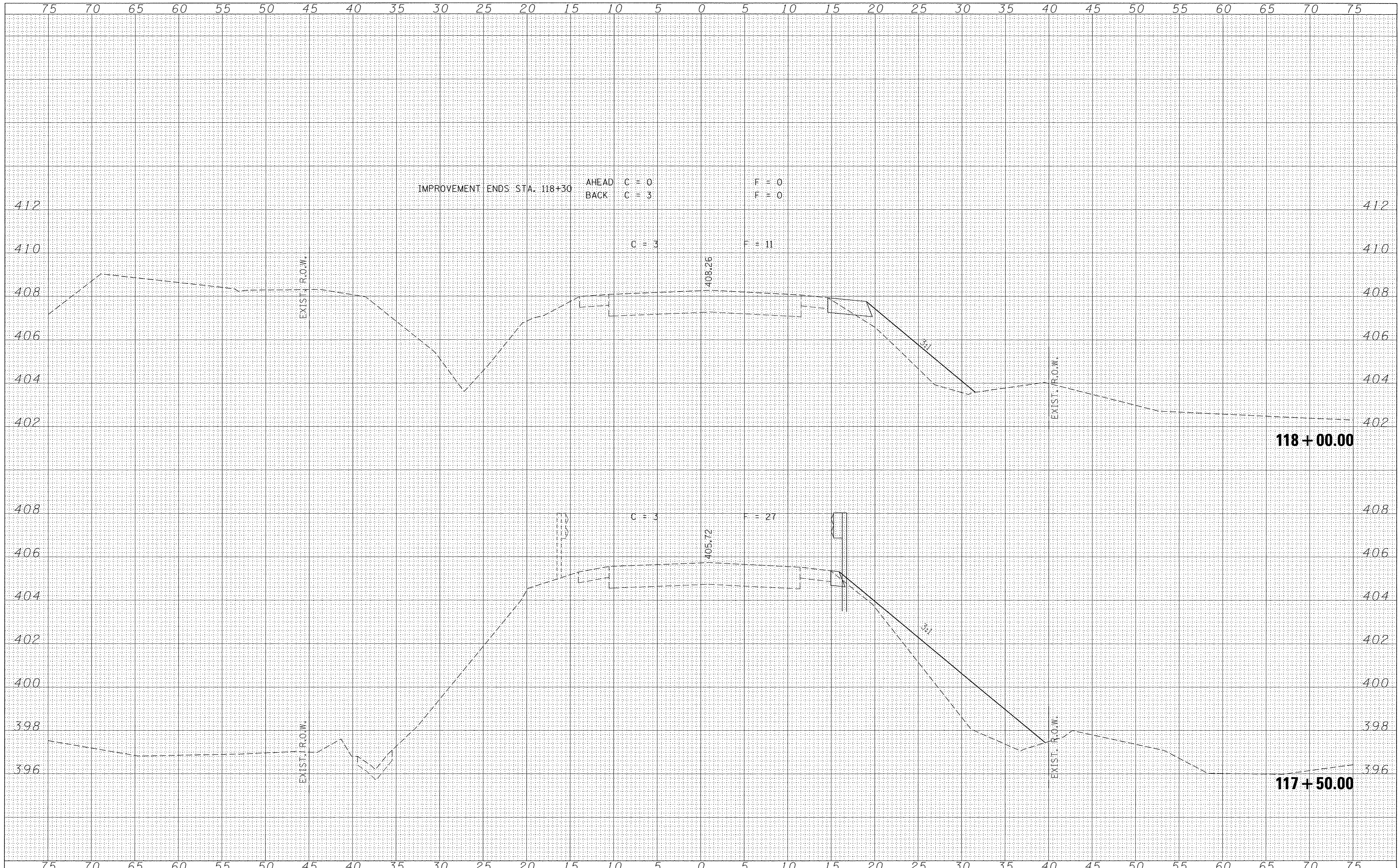
SCALE: H5:V2 SHEET NO. 23 OF 25 SHEETS STA. 116+50.00 TO STA. 117+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	68
			CONTRACT NO.	99577
[ILLINOIS] FED. AID PROJECT BRS-919(111)				



DATE	
BY	
FINAL SURVEY	
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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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DATE	
BY	
ORIGINAL SURVEY	
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NOTE BOOK	
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 DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 12/14/16

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 PLOT SCALE = #SCALE#
 PLOT DATE = 12/14/2016

REVISED -
 REVISED -
 REVISED -
 REVISED -

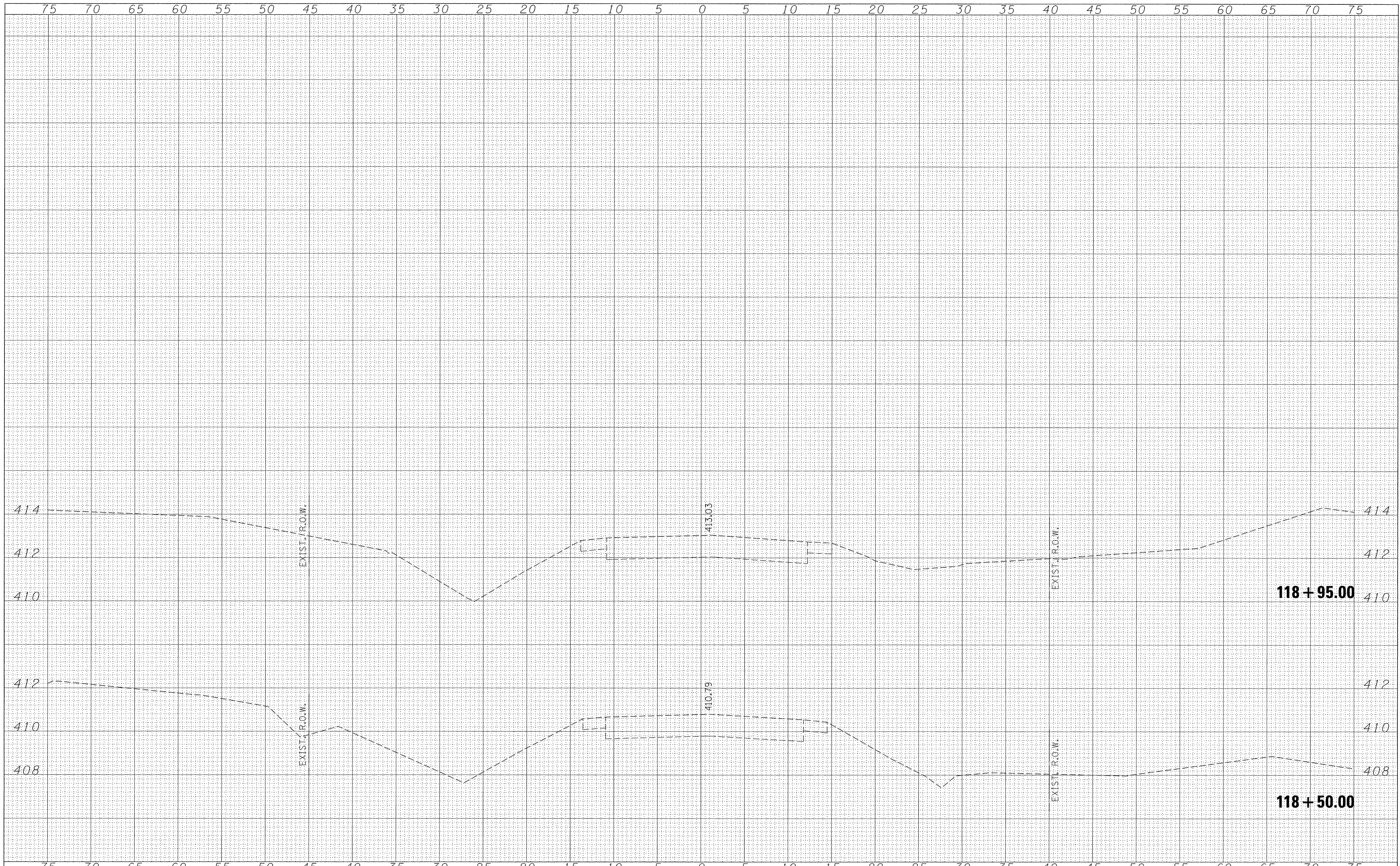
**STATE OF ILLINOIS
 JACKSON COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS
 CH 12 / GIANT CITY ROAD**
 SCALE: H5:V2 SHEET NO. 24 OF 25 SHEETS STA. 117+50.00 TO STA. 118+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	69
			CONTRACT NO. 99577	
[ILLINOIS] FED. AID PROJECT BR5-919(11)				

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

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



FILE NAME = 080340-sht-sxs.dgn	USER NAME = \$USER\$
DESIGNED - J.W.F.	REVISOR -
DRAWN - T.W.K.	REVISOR -
CHECKED - S.W.M.	REVISOR -
DATE - 12/14/16	REVISOR -
PLOT SCALE = \$SCALE\$	
PLOT DATE = 12/14/2016	

DESIGNED - J.W.F.	REVISOR -
DRAWN - T.W.K.	REVISOR -
CHECKED - S.W.M.	REVISOR -
DATE - 12/14/16	REVISOR -

**STATE OF ILLINOIS
JACKSON COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS
CH 12 / GIANT CITY ROAD**

SCALE: H5=V2 SHEET NO. 25 OF 25 SHEETS STA. 118+50.00 TO STA. 118+95.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
919	07-00153-00-BR	JACKSON	70	70
			CONTRACT NO.	99577
ILLINOIS FED. AID PROJECT BR5-919(11)				

