

06-15-12 LETTING ITEM 177

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED HIGHWAY BRIDGE PROGRAM

PROJECT BROS-0025(070)
SECTION 07-11130-00-BR
STANFORD ROAD DISTRICT
CLAY COUNTY

T.R. 355 / KNEFF CEMETERY LANE
PROPOSED STRUCTURE NO. 013-3238
C-97-005-12

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 355	07-11130-00-BR	CLAY	29	1
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 95667		

INDEX OF SHEETS

SHEET NO. DESCRIPTION

- 1. COVER SHEET
- 2. SUMMARY OF QUANTITIES AND GENERAL NOTES
- 3. TYPICAL CROSS SECTIONS
- 4.-6. PLAN AND PROFILE
- 7.-19. STATION CROSS SECTIONS
- 20.-28. BRIDGE PLANS
- 29. BORINGS

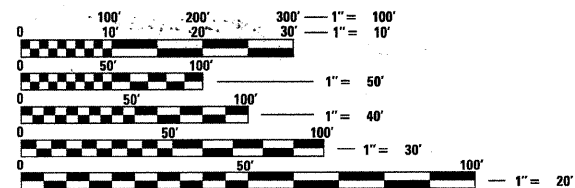
HIGHWAY STANDARDS:

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 280001-06 TEMPORARY EROSION CONTROL SYSTEMS
- 515001-03 NAME PLATE FOR BRIDGES
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 701901-02 TRAFFIC CONTROL DEVICES
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

UTILITIES

FRONTIER COMMUNICATIONS
225 EAST CHESTNUT STREET
OLNEY, IL 62450
ATTN: GENE BRAUER
618-395-6191

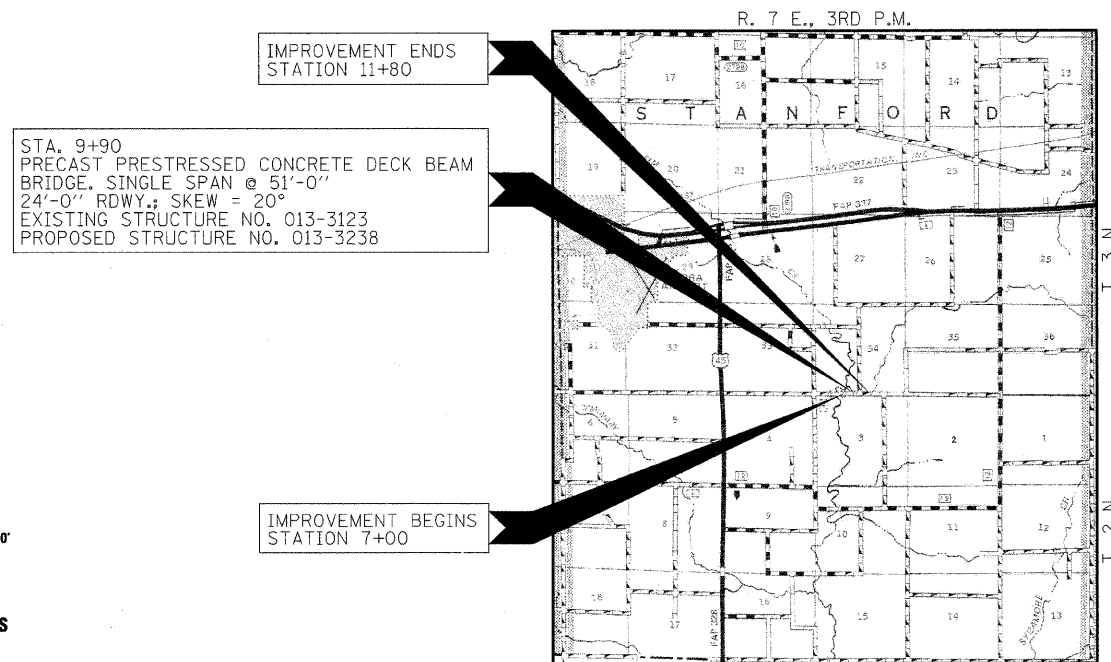
CLAY ELECTRIC COOPERATIVE
CLAY COUNTY WATER, INC.
PO BOX 517
FLORA, IL 62839
ATTN: SAM KESSLER
618-662-2171



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: LOCAL ROAD (NON-URBAN)
DESIGN SPEED: 30 MPH
DESIGN TRAFFIC: 75 ADT



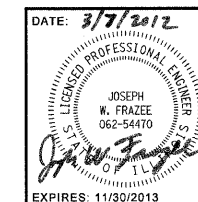
LOCATION MAP

APPROXIMATE SCALE: 0 1 MILE
NET LENGTH OF SECTION = 480 FEET = 0.091 MILES



ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	3/7 20 12 <i>Michael R. Quarant</i> COUNTY ENGINEER
APPROVED	3-9 20 12 <i>Sam Seale</i> TOWNSHIP COMMISSIONER
PASSED	4-11 20 12 <i>Maurice Good</i> DISTRICT SEVEN ENGINEER OF LOCAL ROADS & STREETS
Released For Bid Based on Limited Review	4-11 20 12 <i>Roger L. Brucke</i> DEPUTY DIRECTOR OF HIGHWAYS REGION FOUR ENGINEER STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CONTRACT NO. 95667



HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS
HLR
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.546.3400 www.hlrengineering.com

184.000959
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION
PROJECT NUMBER: 11.0175.130 DATE: 03/05/12

SUMMARY OF QUANTITIES

CODE NO.	ITEM	CONSTRUCTION CODE 0011	
		UNIT	TOTAL QUANTITY
20100500	TREE REMOVAL ACRES	ACRE	0.2
20200100	EARTH EXCAVATION	CU YD	567
20300100	CHANNEL EXCAVATION	CU YD	110
28000305	TEMPORARY DITCH CHECKS	FOOT	48
28000500	INLET AND PIPE PROTECTION	EACH	1
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	525
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	24.4
50300280	CONCRETE ENCASEMENT	CU YD	2.8
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	1224
50800105	REINFORCEMENT BARS	POUND	2460
Δ 50900205	STEEL RAILING, TYPE S1	FOOT	102
51201400	FURNISHING STEEL PILES HP10X42	FOOT	365
51202305	DRIVING PILES	FOOT	365
51203400	TEST PILE STEEL HP10X42	EACH	1
51500100	NAME PLATES	EACH	1
542A0235	PIPE CULVERTS, CLASS A, TYPE 130"	FOOT	32
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2
67100100	MOBILIZATION	L SUM	1
Δ 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
^ X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5
^ X2810208	STONE RIPRAP, CLASS A4 (SPECIAL)	TON	380
^ X2830495	AGGREGATE DITCH (SPECIAL)	TON	39

^ SEE SPECIAL PROVISIONS

Δ SPECIALTY ITEMS

EROSION CONTROL SCHEDULE

LOCATION	TEMPORARY DITCH CHECKS	INLET AND PIPE PROTECTION
	FOOT	EACH
RT. STA 8+75	12	
RT. STA 9+00	12	
LT. STA 8+75	12	
LT. STA 9+00	12	
LT. STA 11+64		1
TOTAL	48	1

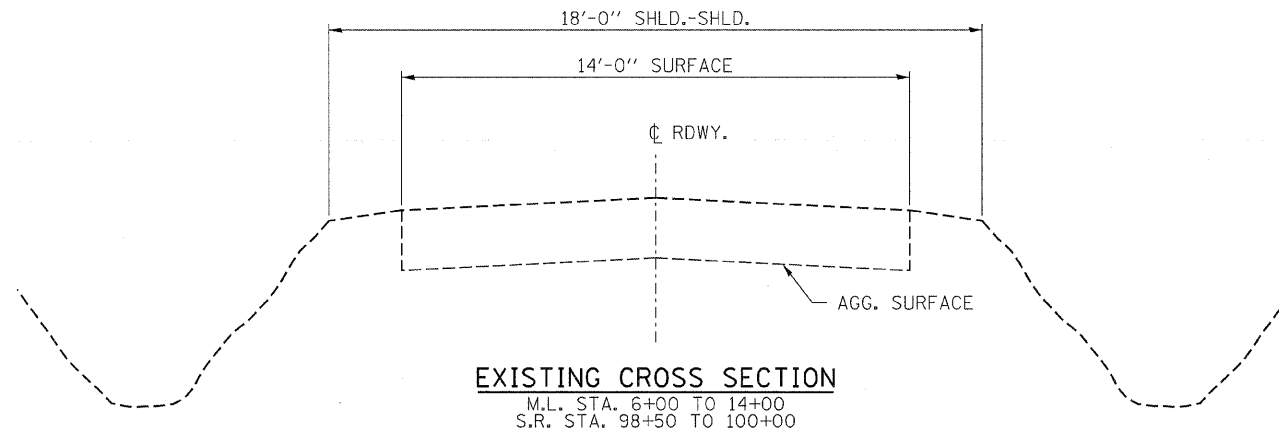
GENERAL NOTES

- CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2012", (HEREIN AFTER REFERRED TO AS THE STANDARD SPECIFICATIONS); THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2012; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE DOCUMENTS.
- CLEARING AND GRUBBING AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. ALL BITUMINOUS MATERIAL SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR IN A METHOD APPROVED BY THE ENGINEER. PROPER DISPOSAL OF BITUMINOUS MATERIAL SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, TELEPHONE LINES, ELECTRIC LINES, WATER SERVICE LINES, GAS MAINS, AND OTHER UTILITY FACILITIES AS SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATIONS AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE CONTRACTOR SHALL CONSULT THE ENGINEER IN REGARD TO THE EXACT LENGTH OF PIPE CULVERTS AND PIPE DRAINS BEFORE ORDERING THESE ITEMS.
- THE REVISION NUMBER INDICATED FOR THE STANDARDS LISTED IN THE INDEX SHEETS SHALL BE USED IN THE CONSTRUCTION OF THIS SECTION.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES
 AGGREGATE SURFACE COURSE 2.05 TON/CU.YD.
 STONE RIPRAP 1.75 TON/CU.YD.
- ALL DISTURBED TURF AREAS SHALL BE STABILIZED WITH SEED ACCORDING TO THE STANDARD SPECIFICATIONS, SECTION 250
ESTIMATED QUANTITY = 0.50 ACRES
- TREES WITHIN THE RIGHT-OF-WAY WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED ONLY AT THE DIRECTION OF THE ENGINEER. THE AREA DESIGNATED FOR REMOVAL SHALL BE MARKED AND MEASURED FOR PAYMENT BY THE ENGINEER BEFORE REMOVAL.
ESTIMATED QUANTITY = 0.20 ACRES

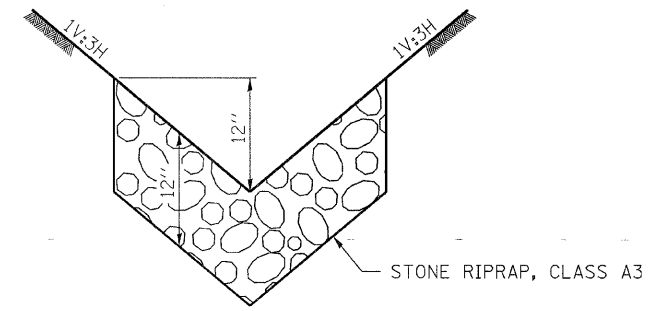
EARTHWORK SUMMARY

LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	% USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT REQUIRED	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CUBIC YARD	CUBIC YARD			CUBIC YARD	CUBIC YARD	CUBIC YARD
TR 355 / KNEFF CEMETERY LANE							
STA 7+00 TO STA 9+63.79	412		25.00%	100.00%	309	115	194
STA 9+63.79 TO STA 10+16.21	0		25.00%	100.00%	0	0	0
STA 10+16.21 TO STA 11+80	119		25.00%	100.00%	89	141	-52
MAPLE ROAD							
STA 98+75 TO STA 99+80	36		25.00%	100.00%	27	17	10
CHANNEL EXCAVATION		110	25.00%	70.00%	58	0	58
	567	110			483	273	210

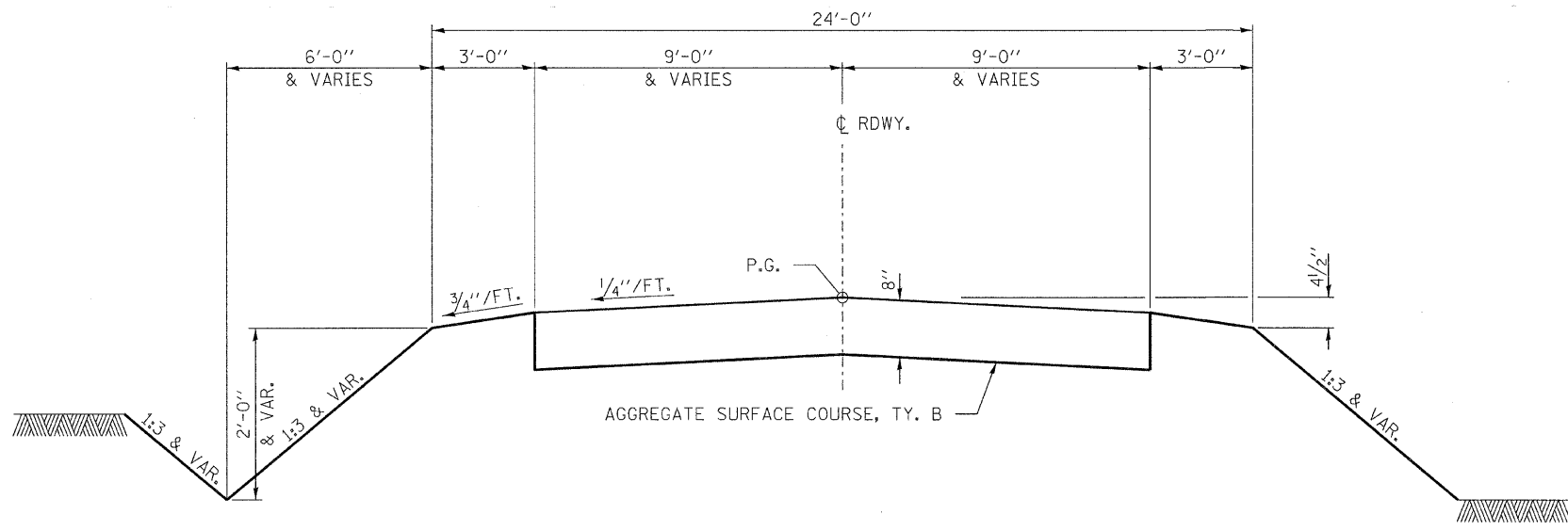
WASTE 210 CU.YD.



EXISTING CROSS SECTION
 M.L. STA. 6+00 TO 14+00
 S.R. STA. 98+50 TO 100+00



TYPICAL AGGREGATE DITCH DETAIL
 NOT TO SCALE
 LT. STA. 9+00 TO 9+30
 RT. STA. 9+00 TO 9+70



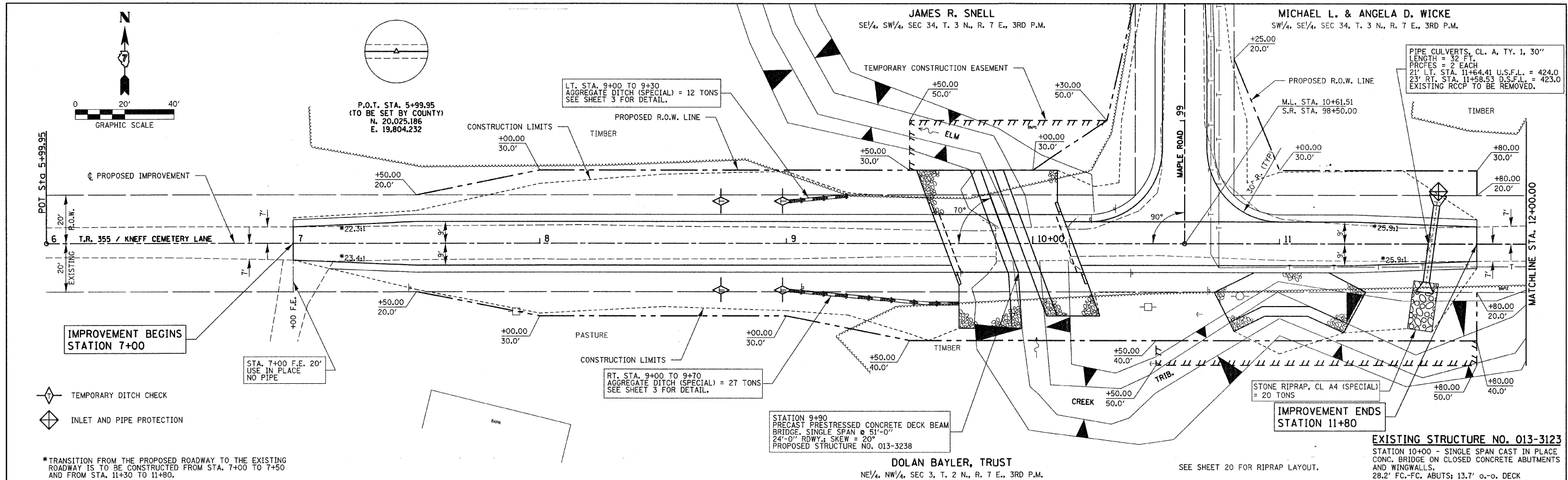
TYPICAL CROSS SECTION
 * M.L. STA. 7+50.00 TO 9+71.33
 M.L. STA. 10+18.67 TO 11+25.00
 S.R. STA. 98+50 TO 99+30

SUGGESTED CUT SECTION
 CONSTRUCT AS SHOWN IN
 STATION CROSS SECTIONS

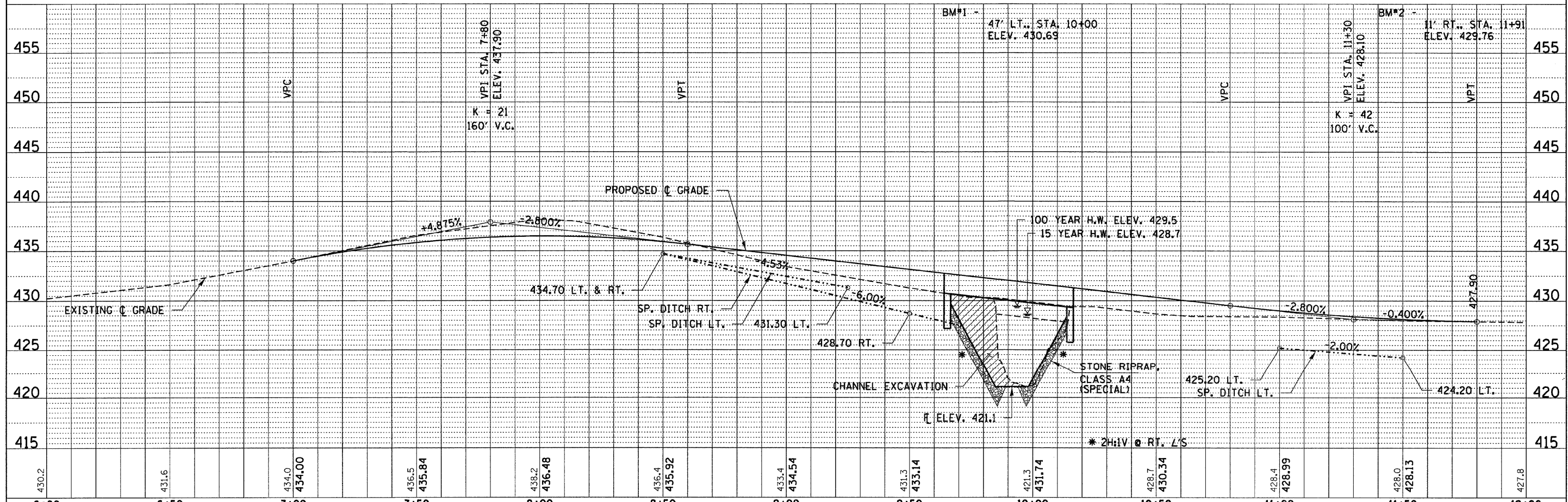
SUGGESTED FILL SECTION
 CONSTRUCT AS SHOWN IN
 STATION CROSS SECTIONS

* TRANSITION FROM THE PROPOSED ROADWAY TO THE EXISTING ROADWAY IS TO BE CONSTRUCTED FROM STA. 7+00 TO 7+50, STA. 11+30 TO 11+80 AND FROM STA. 99+30 TO 99+80.

FILE NAME = 110175-eh-typsections.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS CLAY COUNTY HIGHWAY DEPARTMENT	TYPICAL CROSS SECTIONS KNEFF CEMETERY LANE		T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3045 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - D.T.M.	REVISED -				355	07-11130-00-BR	CLAY	29	3
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 194.000659	PLOT SCALE =	CHECKED - S.W.M.	REVISED -				STANFORD ROAD DISTRICT		CONTRACT NO. 95667		
	PLOT DATE = 3/7/2012	DATE - 03/05/12	REVISED -				SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT BROS-0025(07D)	



*TRANSITION FROM THE PROPOSED ROADWAY TO THE EXISTING ROADWAY IS TO BE CONSTRUCTED FROM STA. 7+00 TO 7+50 AND FROM STA. 11+30 TO 11+80.



430.2	431.6	434.0	434.00	436.5	435.84	438.2	436.48	436.4	435.92	433.4	434.54	431.3	433.14	421.3	431.74	428.7	430.34	428.4	428.99	428.0	428.13	427.8
6+00	6+50	7+00	7+50	8+00	8+50	9+00	9+50	10+00	10+50	11+00	11+50	12+00										

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 DESIGNED - J.W.F.
 DRAWN - D.T.M.
 CHECKED - S.W.M.
 DATE = 03/05/12
 PLOT SCALE =
 PLOT DATE = 3/7/2012

DESIGNED - J.W.F.
 DRAWN - D.T.M.
 CHECKED - S.W.M.
 DATE = 03/05/12

STATE OF ILLINOIS
 CLAY COUNTY HIGHWAY DEPARTMENT

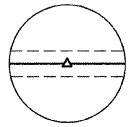
PLAN & PROFILE
 KNEFF CEMETERY LANE
 SCALE: H20V5
 SHEET NO. 1 OF 3 SHEETS
 STA. 5+99.95 TO STA. 12+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
355	07-11130-00-BR	CLAY	29	4
STANFORD ROAD DISTRICT		CONTRACT NO. 95667		(ILLINOIS) FED. AID PROJECT BROS-0025(070)

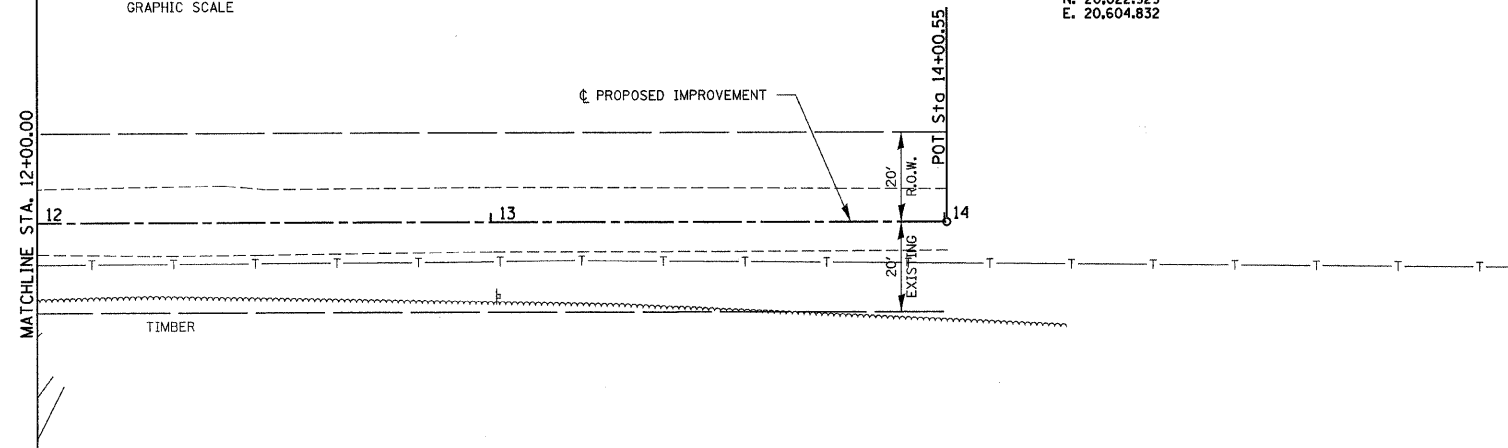
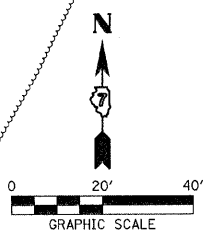
PLAN
 SURVEYED
 ALIGNMENT CHECKED
 NOTE BOOK NO.
 DATE

PROFILE
 SURVEYED
 GRADES CHECKED
 NOTE BOOK NO.
 DATE

MICHAEL L. & ANGELA D. WICKE
 SW/4, SE/4, SEC 34, T. 3 N., R. 7 E., 3RD P.M.

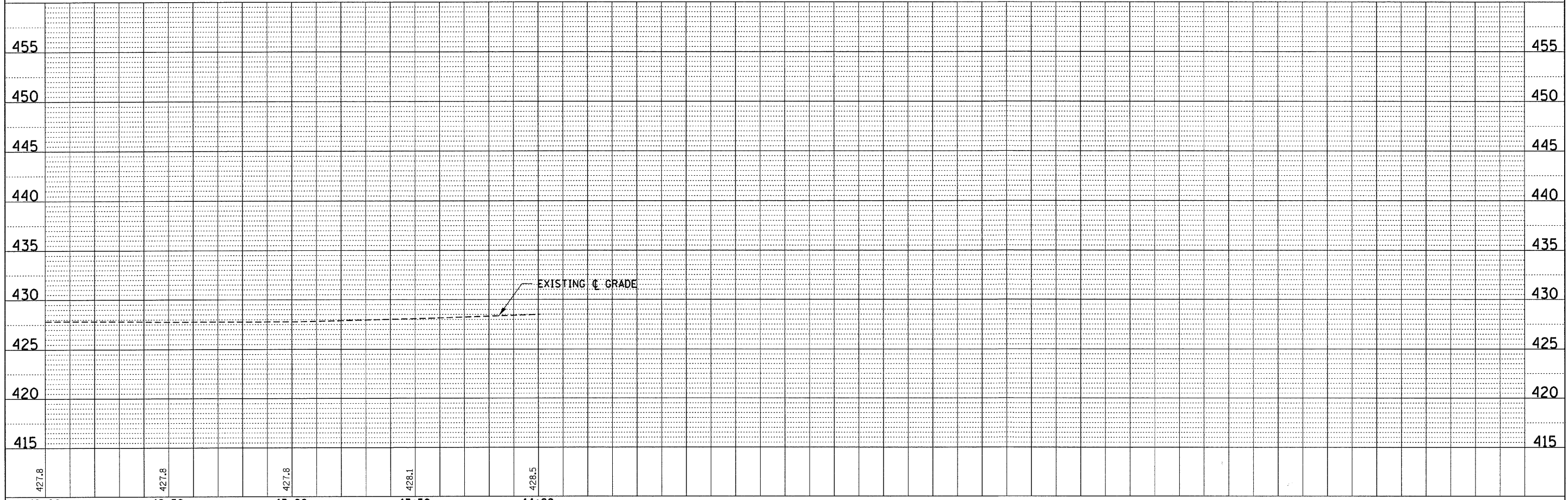


P.O.T. STA. 14+00.55
 (TO BE SET BY COUNTY)
 N. 20,022.929
 E. 20,604.832



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

DOLAN BAYLER
 NW/4, NE/4, SEC 3, T. 2 N., R. 7 E., 3RD P.M.



DATE	BY	REVIEWED	CHECKED
		PLOTTED	GRADES
		NOTE BOOK	NOTATIONS
		NO.	CHKD

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HAMPTON, LENZINI AND RENWICK, INC. <small>4005 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703</small>		DRAWN - D.T.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM <small>LB / PE / SE CORP. 184-002859</small>	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
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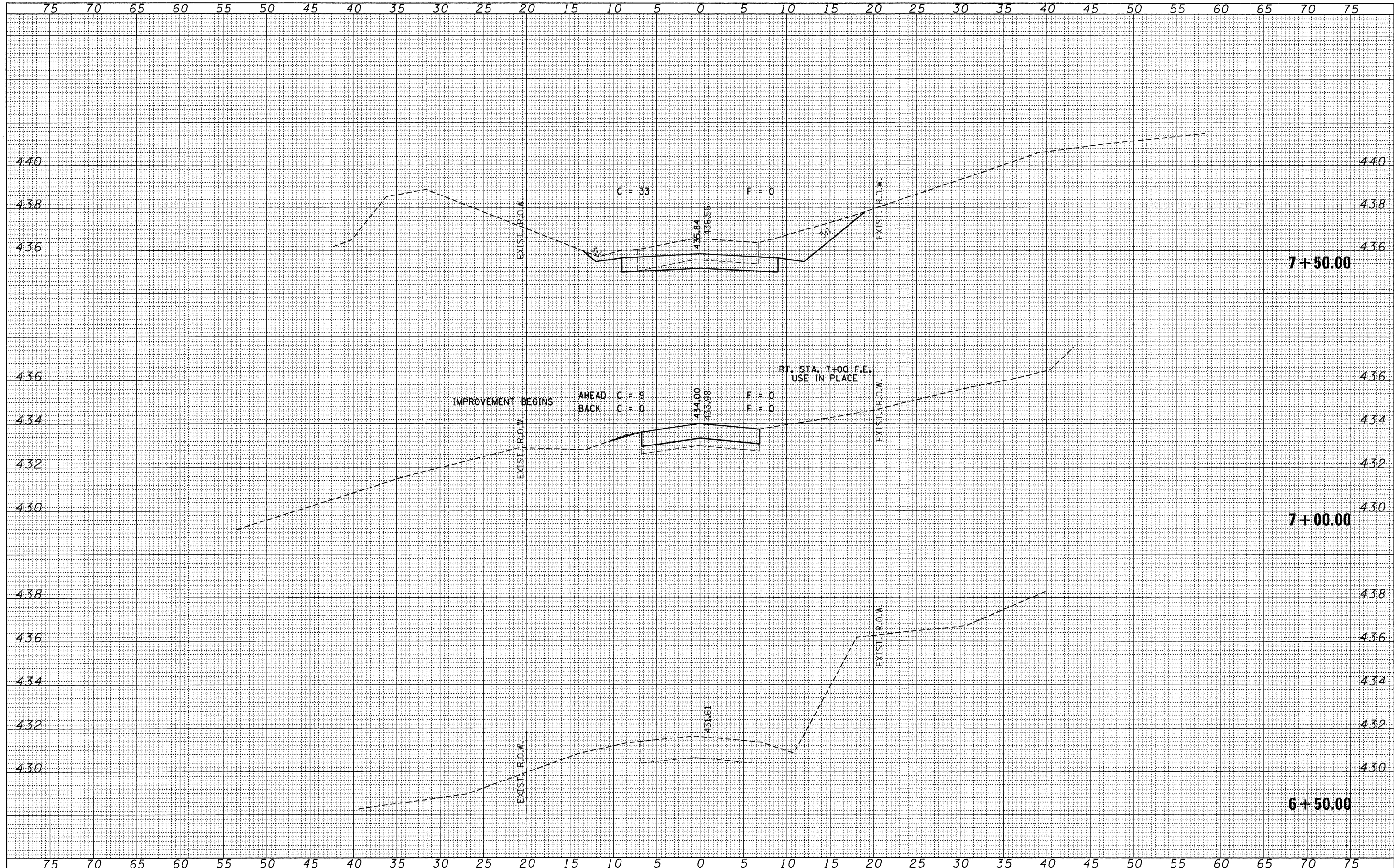
STATE OF ILLINOIS
CLAY COUNTY HIGHWAY DEPARTMENT

PLAN & PROFILE KNEFF CEMETERY LANE		
SCALE: H20xV5	SHEET NO. 2 OF 3 SHEETS	STA. 12+00.00 TO STA. 14+00.55

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
355	07-11130-00-BR	CLAY	29	5
STANFORD ROAD DISTRICT			CONTRACT NO. 95667	
[ILLINOIS] FED. AID PROJECT BR05-0025(070)				

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME = 110175-ah-xxa.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 3045 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62781
 ILLINOIS PROFESSIONAL DESIGN FIRM
 ILS/PE/RE CORP. 184-02889

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	DRAWN - D.T.M.	REVISED -
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PLOT DATE = 3/7/2012	DATE - 03/05/12	REVISED -

**STATE OF ILLINOIS
 CLAY COUNTY HIGHWAY DEPARTMENT**

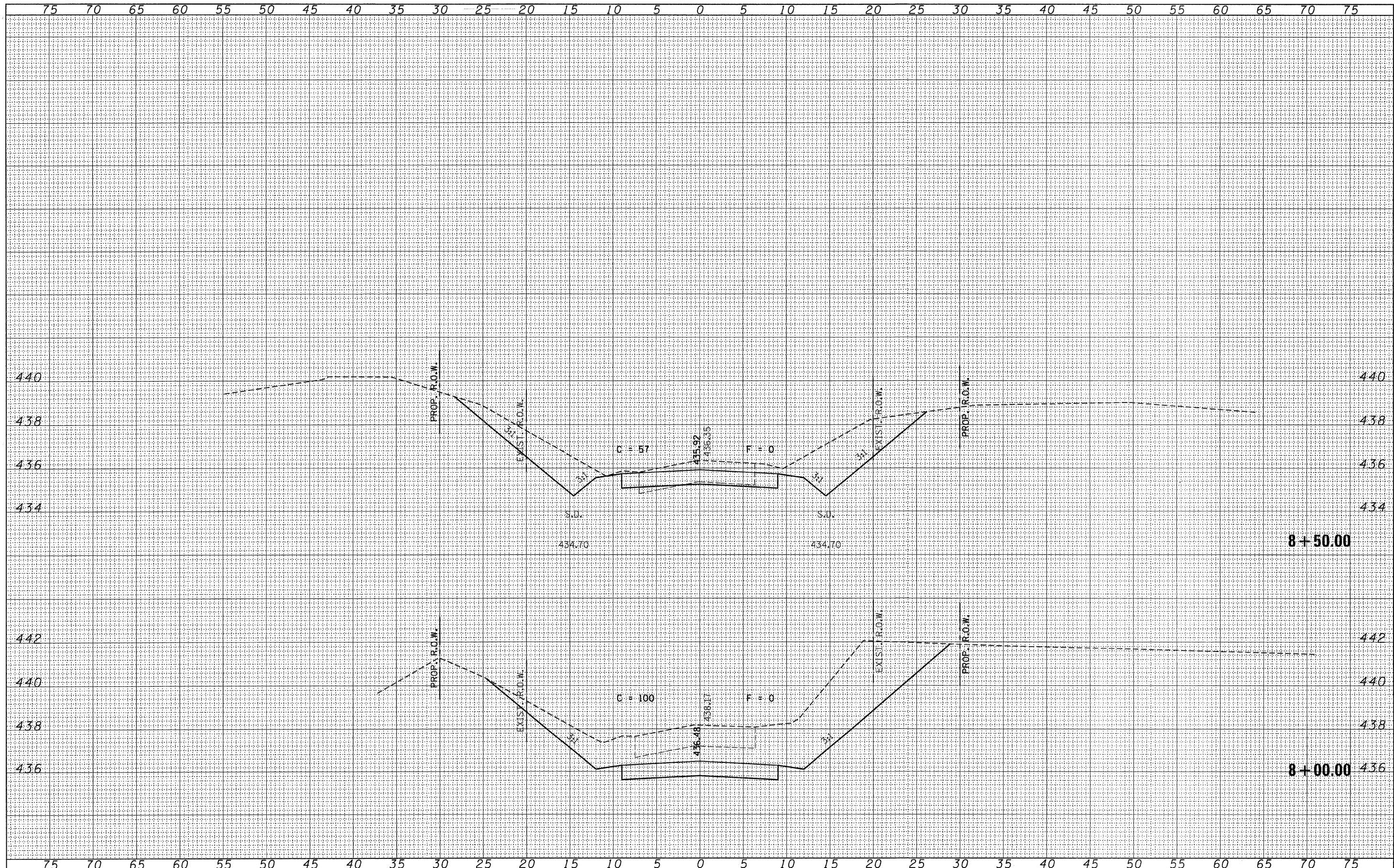
**STATION CROSS SECTIONS
 KNEFF CEMETERY LANE**

SCALE: H5:V2 SHEET NO. OF SHEETS STA. 6+50.00 TO STA. 7+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
355	07-11130-00-BR	CLAY	29	7
STANFORD ROAD DISTRICT			CONTRACT NO. 95667	
[ILLINOIS] FED. AID PROJECT BROS-0025070				

DATE	
BY	
SURVEYED	
NOTED	
TEMPERATURE	
WIND	
MOON	
REMARKS	
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DATE	
BY	
SURVEYED	
NOTED	
TEMPERATURE	
WIND	
MOON	
REMARKS	
NO.	



FILE NAME = 110175-shr-exs.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 2005 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-000809

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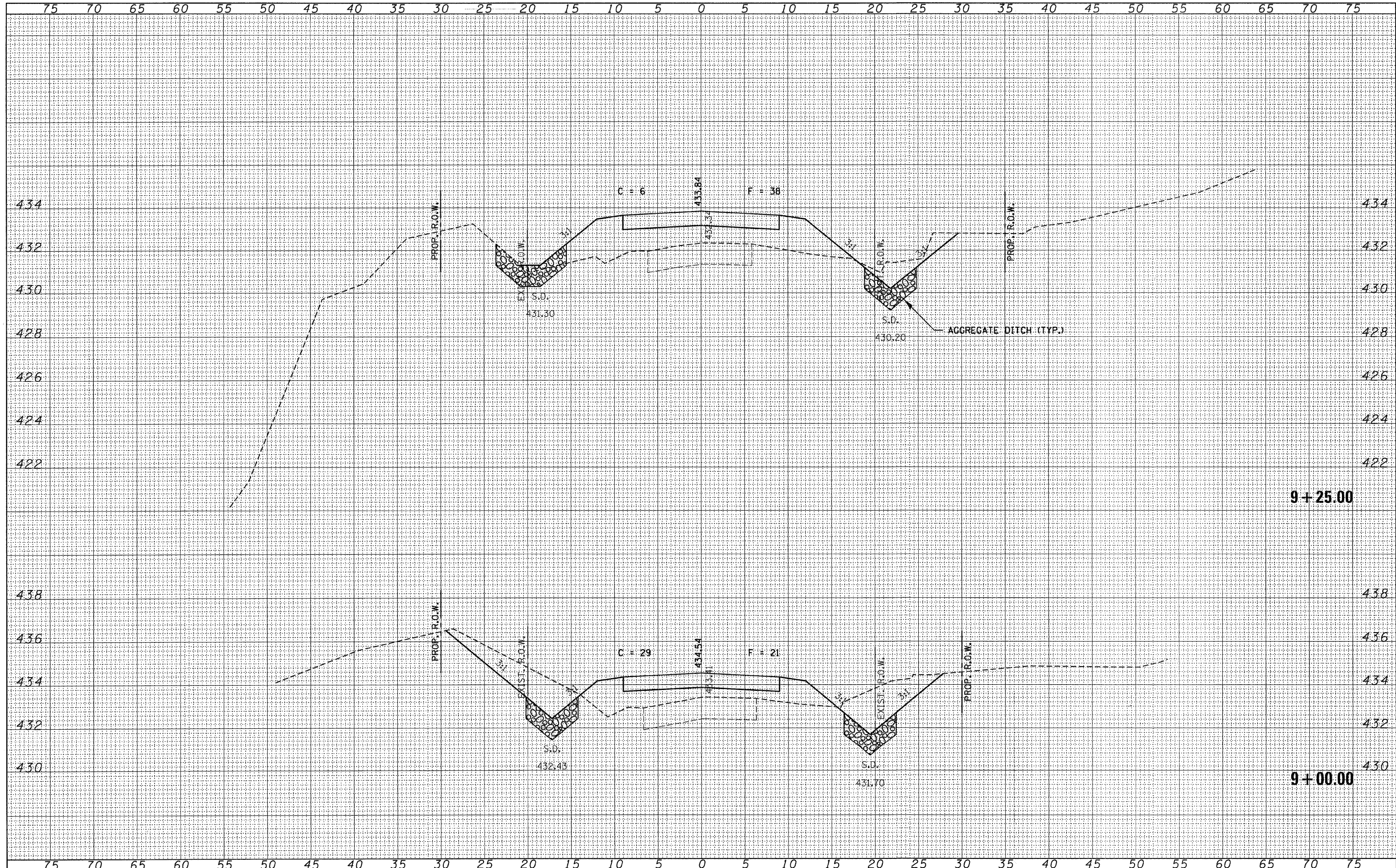
STATE OF ILLINOIS
 CLAY COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 KNEFF CEMETERY LANE
 SCALE: H5:V2 SHEET NO. OF SHEETS STA. 8+00.00 TO STA. 8+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
355	07-11130-00-BR	CLAY	29	8
STANFORD ROAD DISTRICT			CONTRACT NO. 95667	
ILLINOIS FED. AID PROJECT BROS-00250701				

DATE	
BY	
FINAL SURVEY	
NOTED BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTED BOOK	
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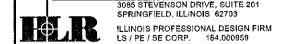
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 CHECKED - S.W.M.
 DATE - 03/05/12
 PLOT SCALE =
 PLOT DATE = 3/7/2012

DESIGNED - J.W.F.
 DRAWN - D.T.M.
 CHECKED - S.W.M.
 DATE - 03/05/12

STATE OF ILLINOIS
 CLAY COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 KNEFF CEMETERY LANE
 SCALE: H5xV2
 SHEET NO. OF SHEETS STA. 9+00.00 TO STA. 9+25.00

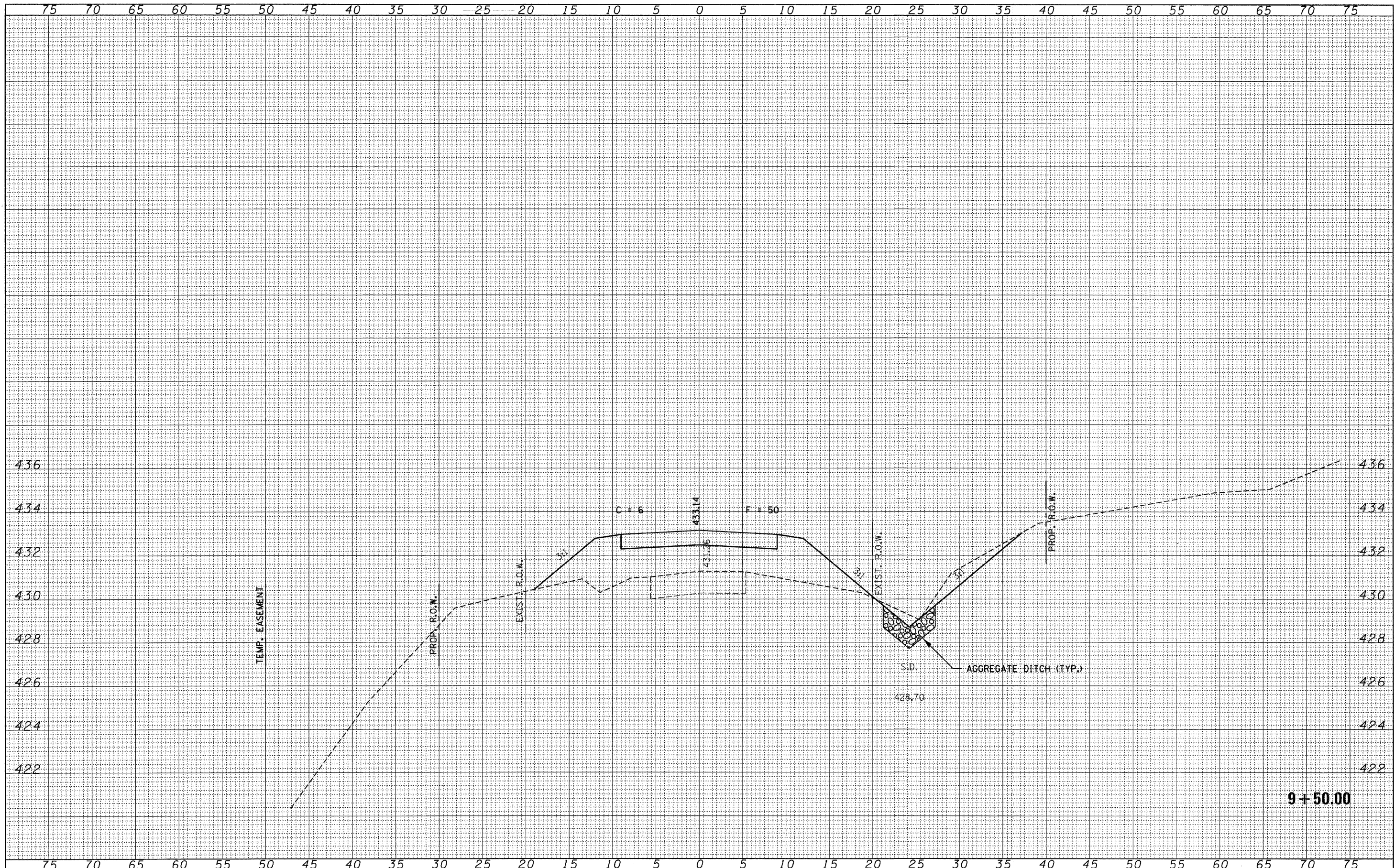
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355	07-11130-00-BR	CLAY	29	9
STANFORD ROAD DISTRICT			CONTRACT NO. 95667	
ILLINOIS FED. AID PROJECT BROS-002(070)				



ILLINOIS PROFESSIONAL DESIGN FIRM
 ILL. REG. NO. 000959

DATE	
BY	
SURVEYED	
REVISIONS	
TEMP. EASEMENT	
NOTE BOOK	
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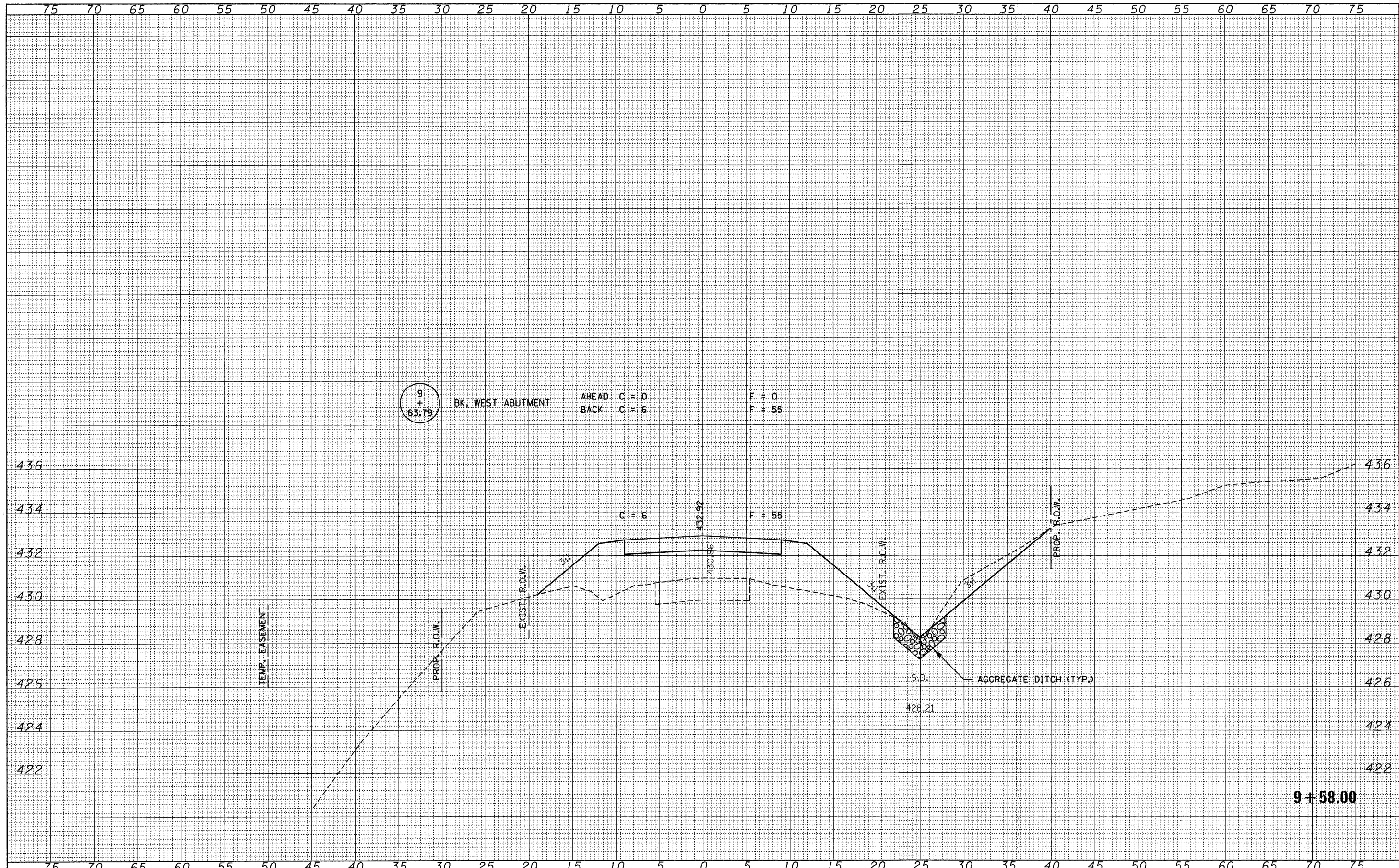
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REVISIONS	
TEMP. EASEMENT	
NOTE BOOK	
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FILE NAME = 110175-sh1-exs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS CLAY COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS KNEFF CEMETERY LANE		T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND REINICK, INC.		DRAWN - D.T.M.	REVISED -		355	07-11130-00-BR	CLAY	29	10		
3005 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -		STANFORD ROAD DISTRICT		CONTRACT NO. 95667				
ILLINOIS PROFESSIONAL DESIGN FIRM 157 PE / SE CORP. 184-000588		DATE - 03/05/12	REVISED -		SCALE: H5+V2		SHEET NO. OF SHEETS		STA. 9+50.00 TO STA. 9+50.00		
							ILLINOIS FED. AID PROJECT BROS-002(070)				

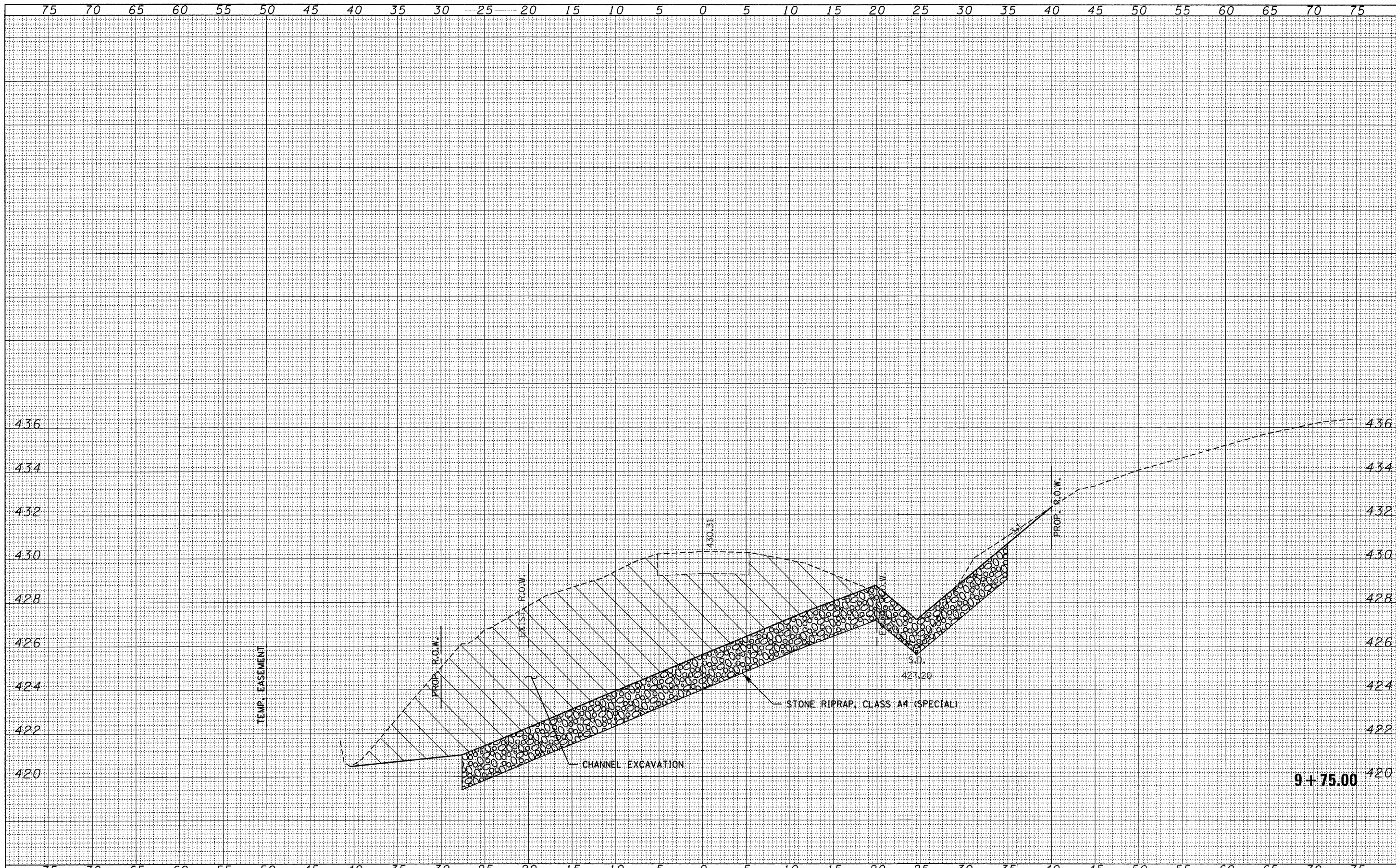
FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
AREAS CHECKED		
NO.		

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



9+58.00

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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - D.T.M.	REVISED -		355	07-11130-00-BR	CLAY	29	11				
3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		STANFORD ROAD DISTRICT				CONTRACT NO. 95667				
ILLINOIS PROFESSIONAL DESIGN FIRM L5/7E/SE CORP. 184.002938	PLOT DATE = 3/7/2012	DATE - 03/05/12	REVISED -		SCALE: H5+V2	SHEET NO. OF SHEETS	STA. 9+58.00 TO STA. 9+58.00	[ILLINOIS] FED. AID PROJECT BR05-0025(070)					



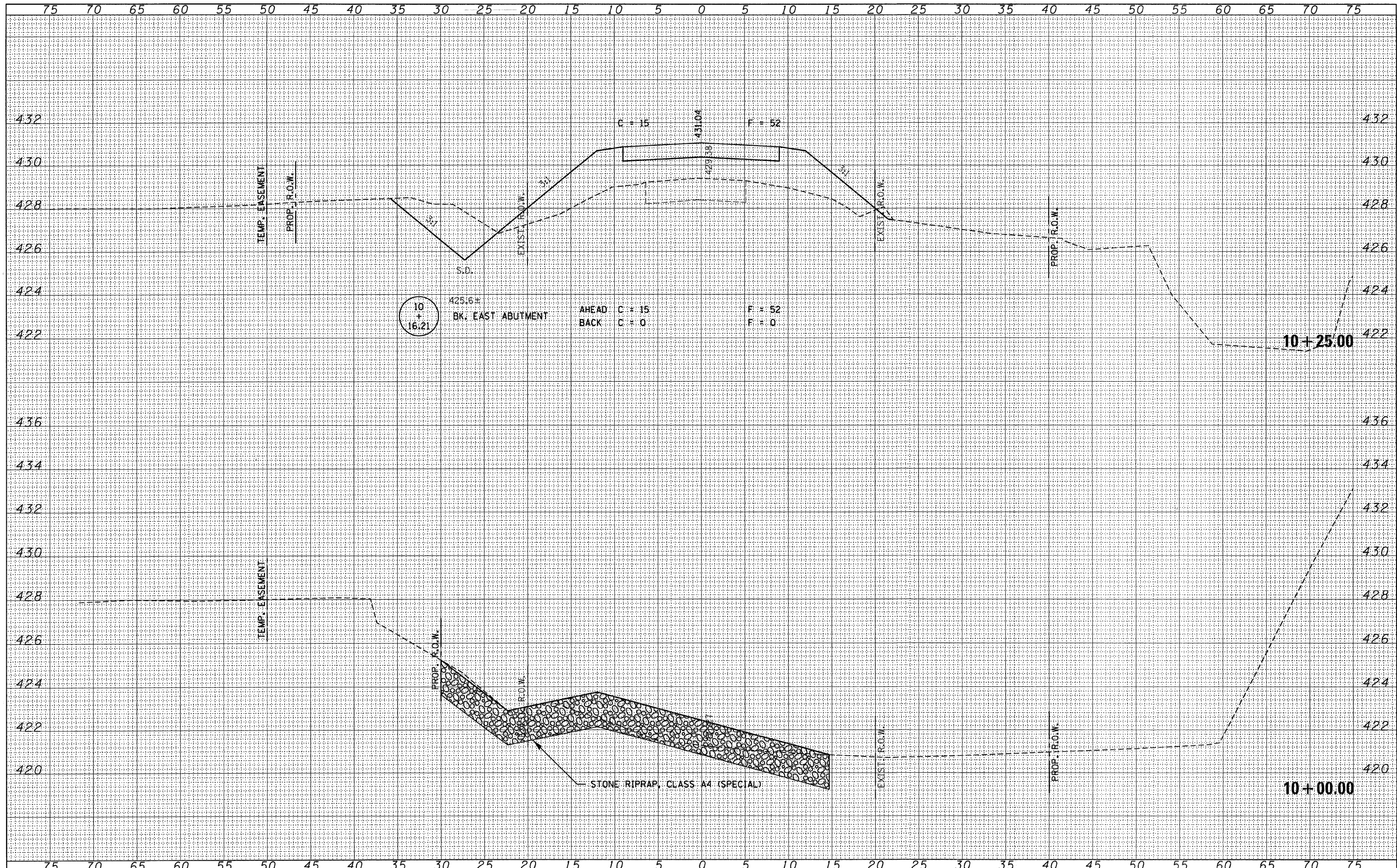
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NOTE BOOK NO.	PLOTTED		
	AREAS		
	CHECKED		

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

FILE NAME = 110175-ah1-exs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS CLAY COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS KNEFF CEMETERY LANE		T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 308 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - D.T.M.	REVISED -		355	07-11130-00-BR	CLAY	29	12		
ILR ILLINOIS PROFESSIONAL DESIGN FIRM 15 / PE / SE CORP. 194.000958	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		SCALE: H5:V2		SHEET NO. OF SHEETS		STANFORD ROAD DISTRICT	CONTRACT NO. 95667	
	PLOT DATE = 3/7/2012	DATE - 03/05/12	REVISED -		SHEET NO. OF SHEETS		STA. 9+75.00 TO STA. 9+75.00		ILLINOIS FED. AID PROJECT BROS-00251070		
					SCALE: H5:V2		SHEET NO. OF SHEETS		STA. 9+75.00 TO STA. 9+75.00		

DATE	
BY	
FINAL SURVEY	
TEMP. EASEMENT	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
TEMP. EASEMENT	
NOTE BOOK	
AREAS CHECKED	
NO.	



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HAMPTON, LENZI AND RENWICK, INC.
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 18 / PE / SE CORP. 184.000959

USER NAME =
 PLOT SCALE =
 PLOT DATE = 3/7/2012

DESIGNED - J.W.F.
 DRAWN - D.T.M.
 CHECKED - S.W.M.
 DATE - 03/05/12

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 CLAY COUNTY HIGHWAY DEPARTMENT**

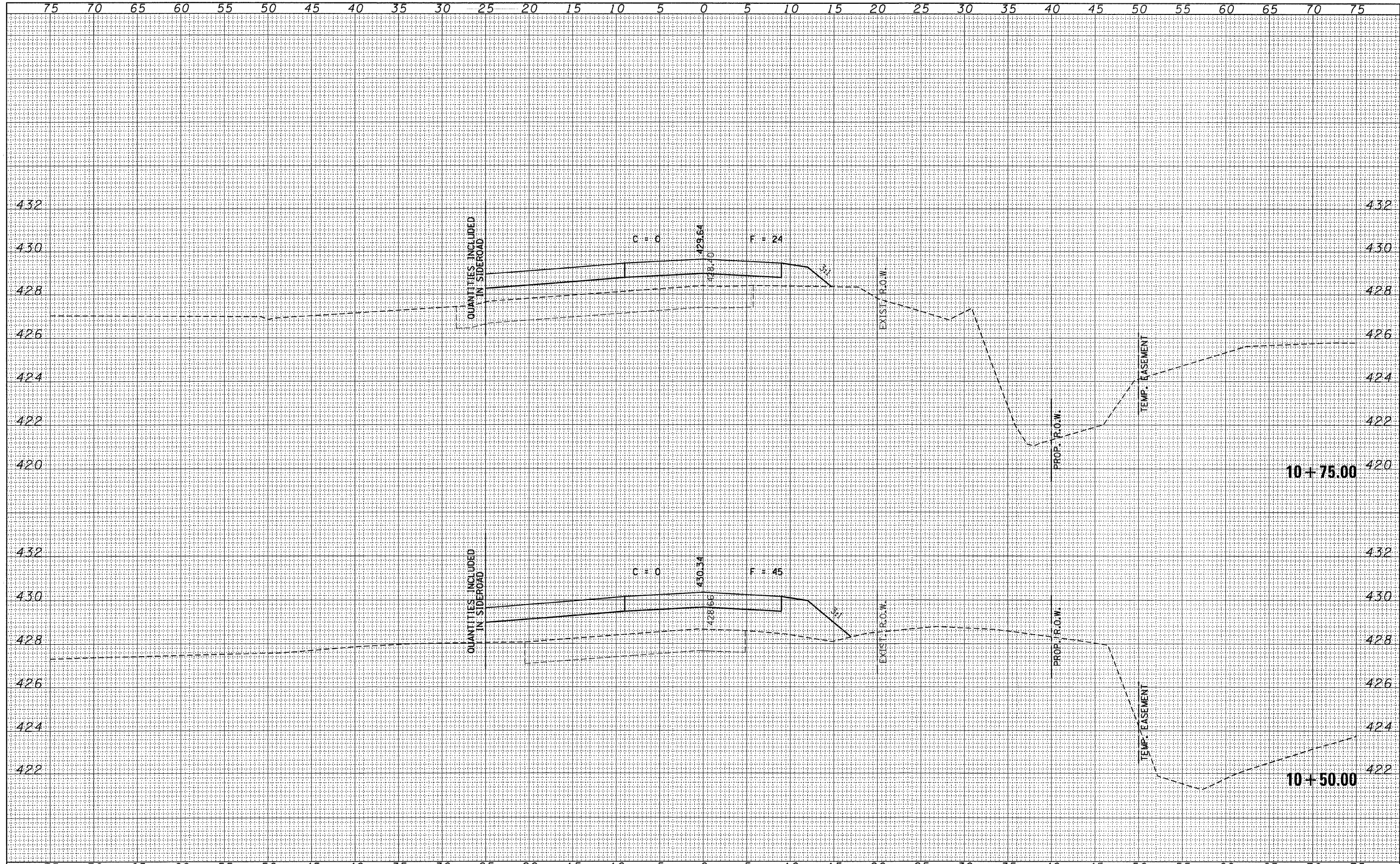
**STATION CROSS SECTIONS
 KNEFF CEMETERY LANE**

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355	07-11130-00-BR	CLAY	29	13
STANFORD ROAD DISTRICT			CONTRACT NO. 95667	
[ILLINOIS] FED. AID PROJECT BR05-0025(070)				

BY	DATE
SURVEYED	
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BY	DATE
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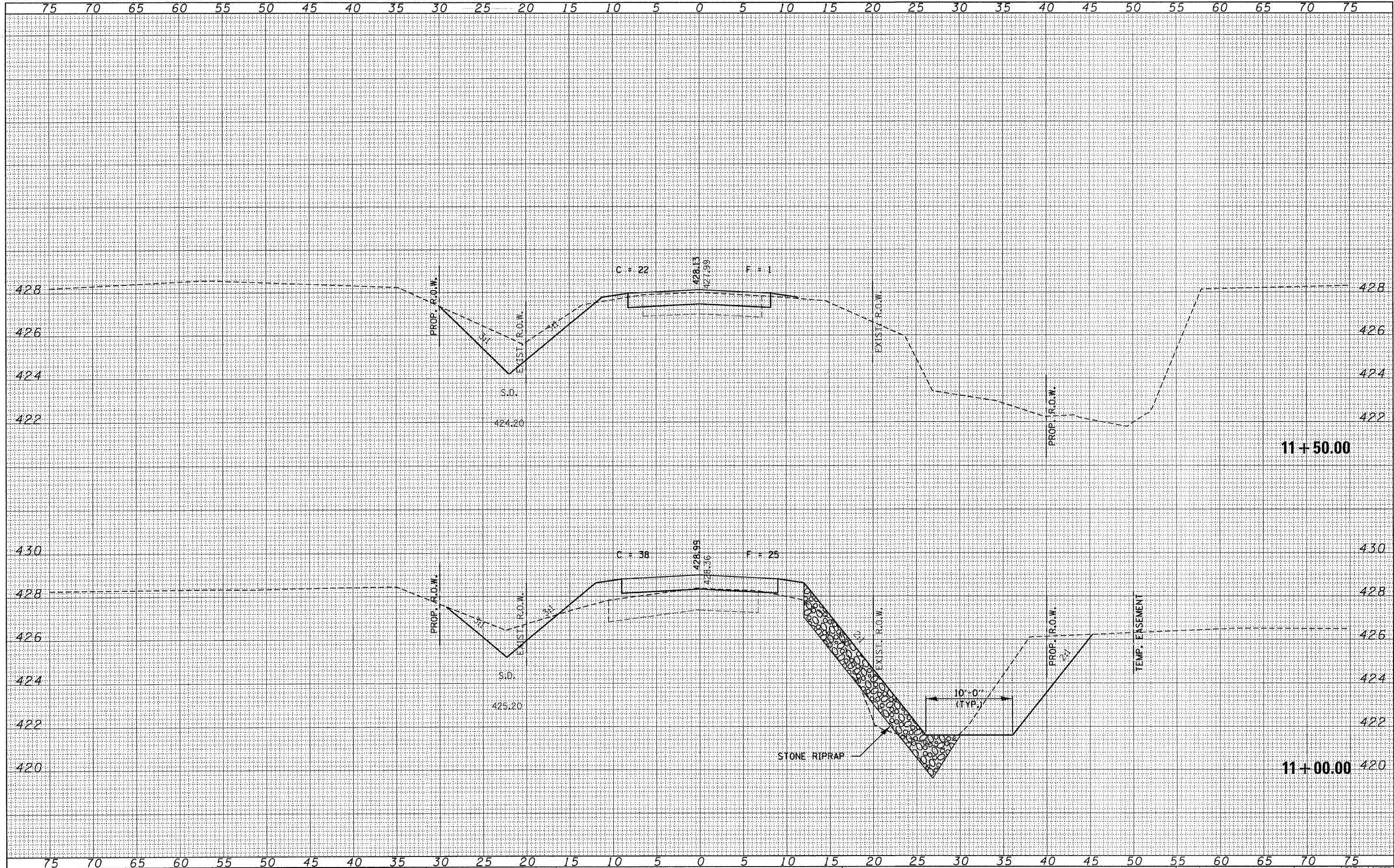
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PLOT DATE = 3/7/2012		DATE - 03/05/12	REVISED -	SCALE: H5xV2		SHEET NO. OF SHEETS		STA. 10+50.00 TO STA. 10+75.00

**STATE OF ILLINOIS
CLAY COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS
KNEFF CEMETERY LANE**

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

DATE	
BY	
SURVEYED	
ORIGINAL	
NOTE BOOK	
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AREAS CHECKED	
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TEMPLATE	
NO.	



FILE NAME = 110175-shr-exs.dgn
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 DESIGNED - J.W.F.
 DRAWN - D.T.M.
 CHECKED - S.W.M.
 DATE - 03/05/12

PLOT SCALE =
 PLOT DATE = 3/7/2012

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 CLAY COUNTY HIGHWAY DEPARTMENT

SCALE: H5:V2
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STATION CROSS SECTIONS
 KNEFF CEMETERY LANE

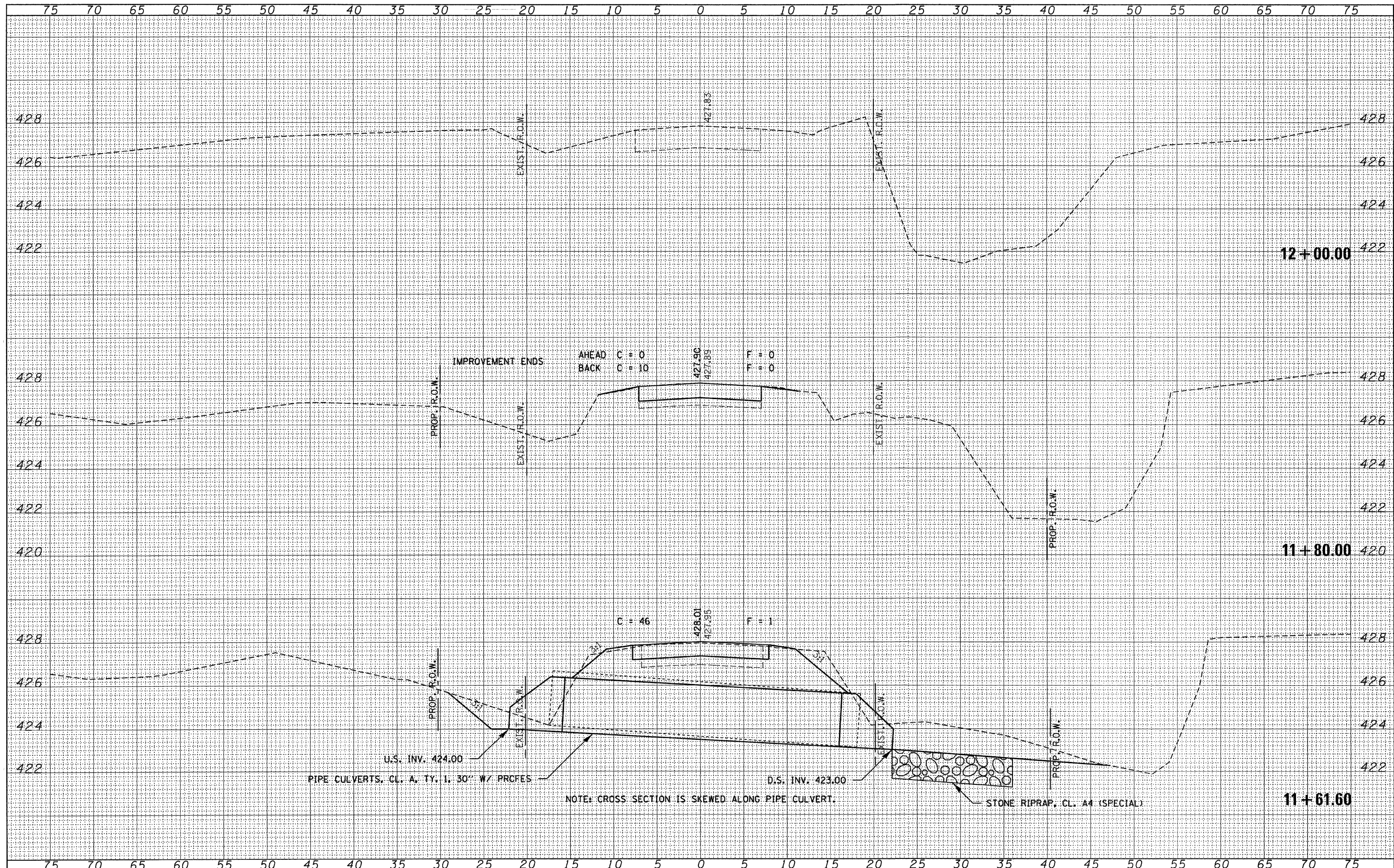
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STANFORD ROAD DISTRICT		CONTRACT NO. 95667		
ILLINOIS FED. AID PROJECT BROS-0025(070)				



HAMPTON, LENZI AND RENWICK, INC.
 3005 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184-000858

DATE	
BY	
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FROM	
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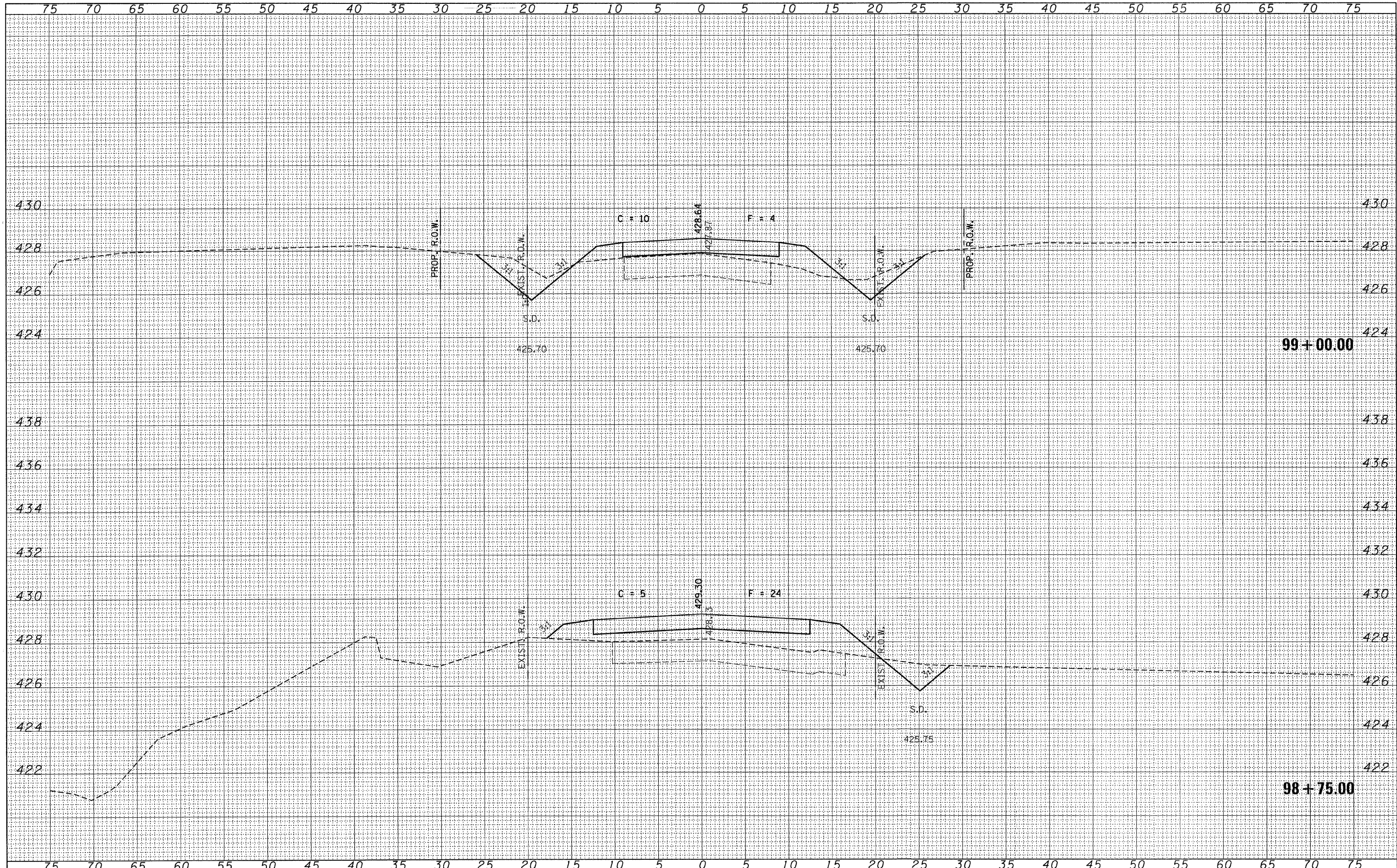
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3008 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62733		CHECKED - S.W.M.	REVISED -		STANFORD ROAD DISTRICT		CONTRACT NO. 95667				
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000859		DATE - 03/05/12	REVISED -		SCALE: H5+V2 SHEET NO. OF SHEETS STA. 11+61.60 TO STA. 12+00.00		ILLINOIS FED. AID PROJECT BROS-0025(070)				

DATE	
BY	
FINAL SURVEY	
TEMPLATE	
NOTE BOOK	
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DATE	
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 3008 STEPHENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LD / PE / SE CORP. 184-000959

USER NAME =	DESIGNED - J.W.F.	REVISED -
	DRAWN - D.T.M.	REVISED -
PLOT SCALE =	CHECKED - S.W.M.	REVISED -
PLOT DATE = 3/7/2012	DATE - 03/05/12	REVISED -

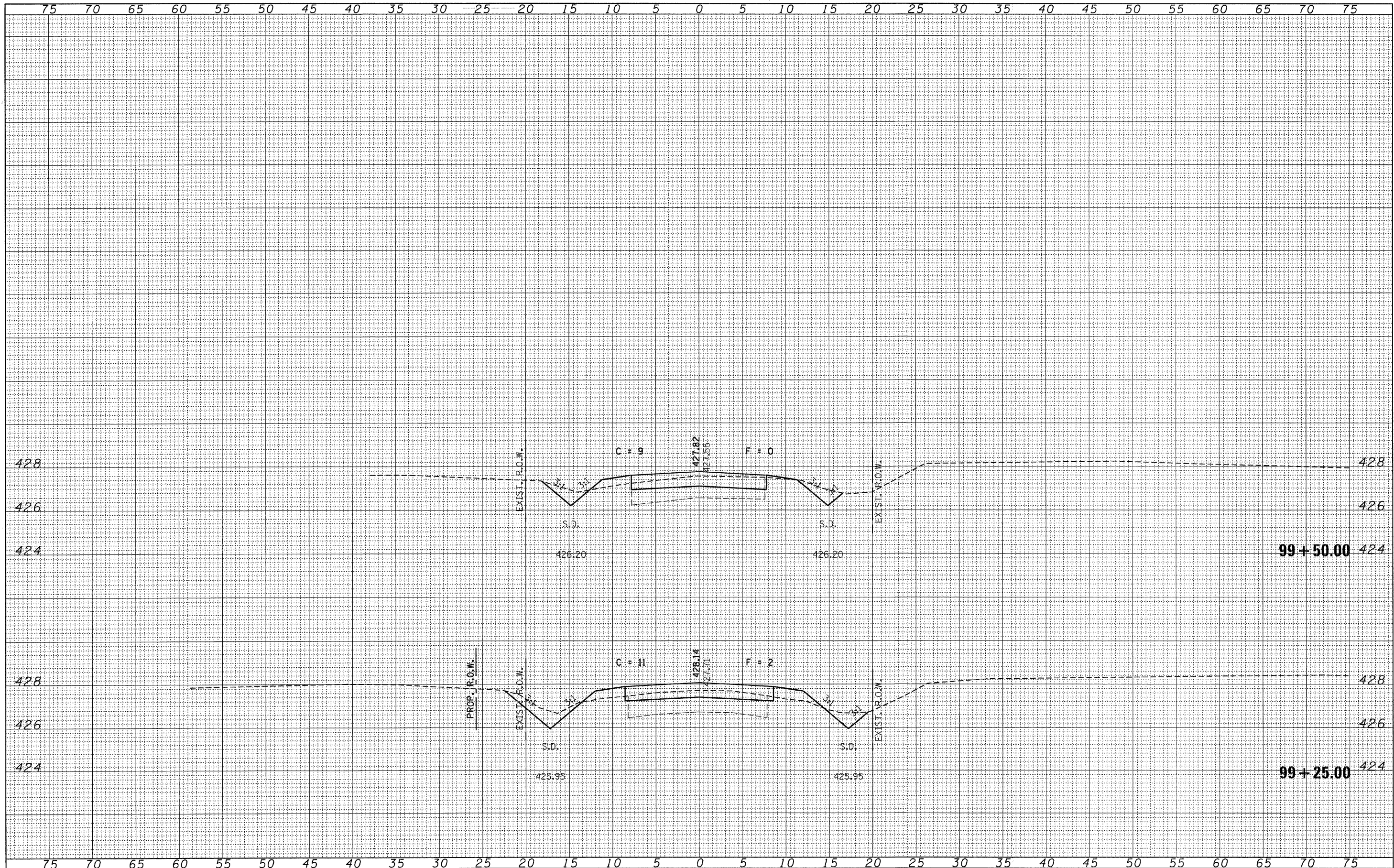
STATE OF ILLINOIS
 CLAY COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 MAPLE ROAD
 SCALE: H5+V2 SHEET NO. OF SHEETS STA. 98+75.00 TO STA. 99+00.00

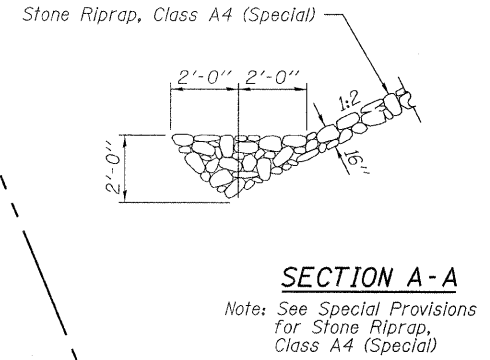
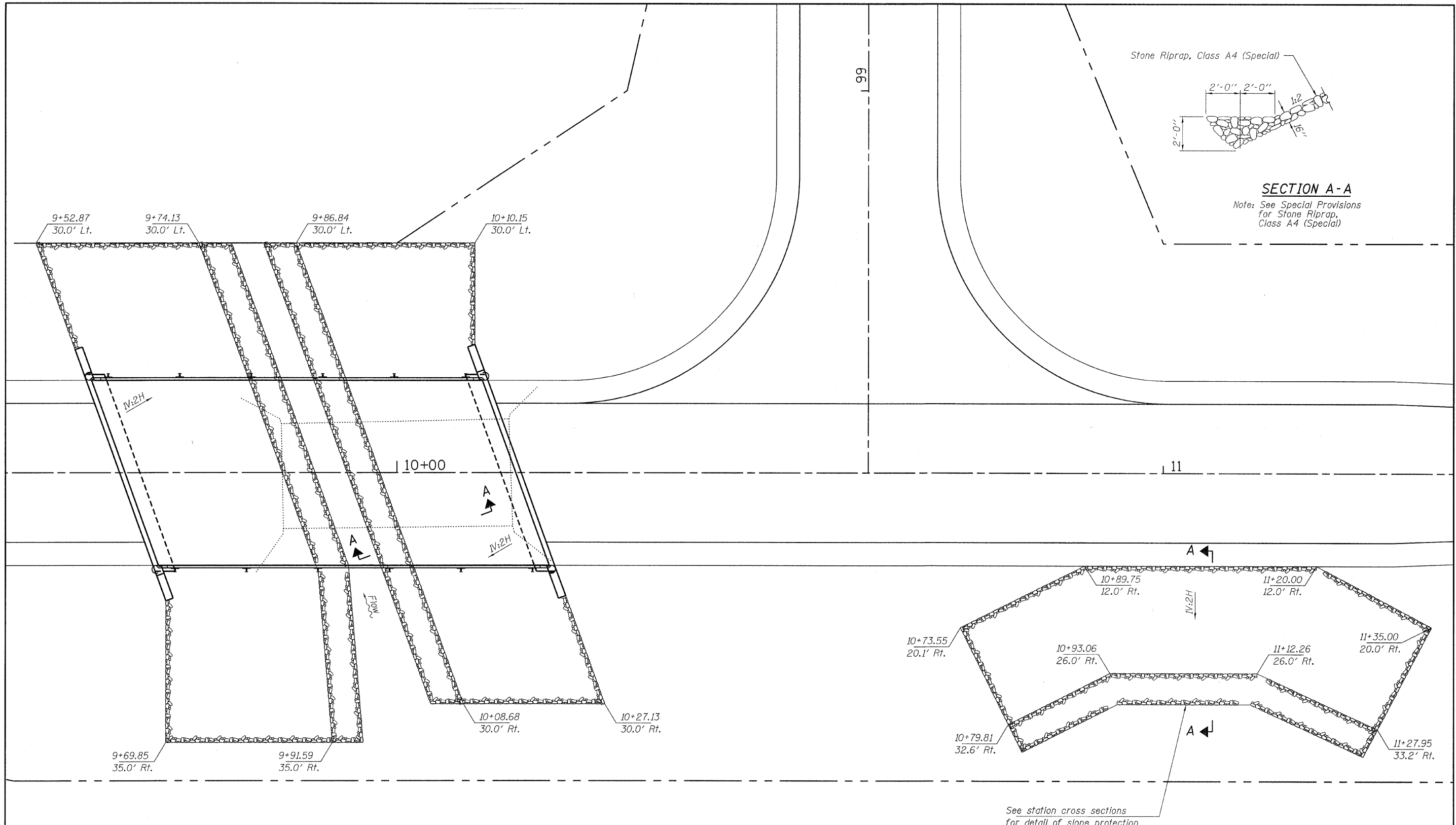
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355	07-11130-00-BR	CLAY	29	17
STANFORD ROAD DISTRICT			CONTRACT NO. 95667	
ILLINOIS FED. AID PROJECT BROS-0025(070)				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
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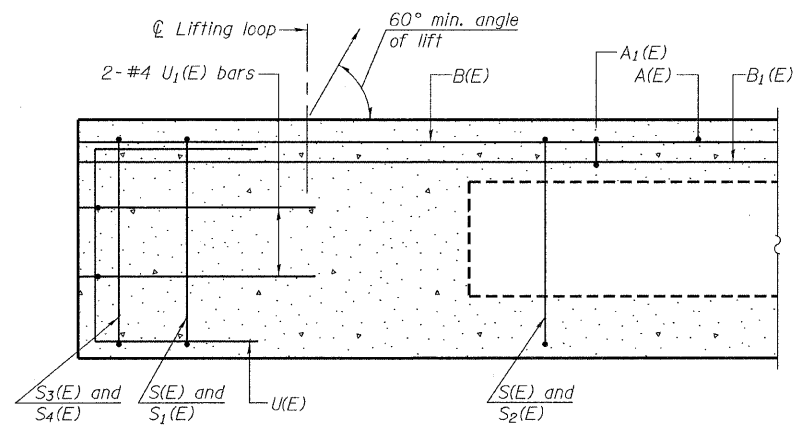
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1000 STEVENSON DRIVE, SUITE 201		CHECKED - S.W.M.	REVISED -		STANFORD ROAD DISTRICT CONTRACT NO. 95667				
SPRINGFIELD, ILLINOIS 62763		DATE - 03/05/12	REVISED -		ILLINOIS FED. AID PROJECT BR05-0025(070)				
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LSI P/E/SE CORP. 184-000968									



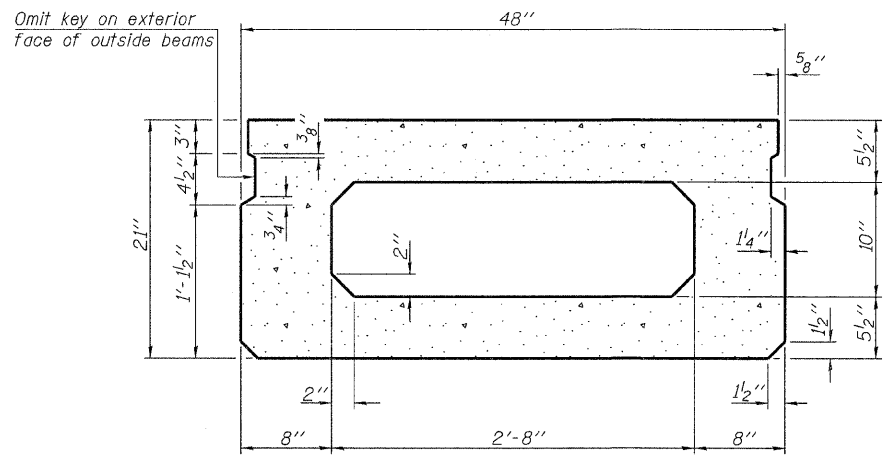
PLAN

See station cross sections for detail of slope protection in the area.

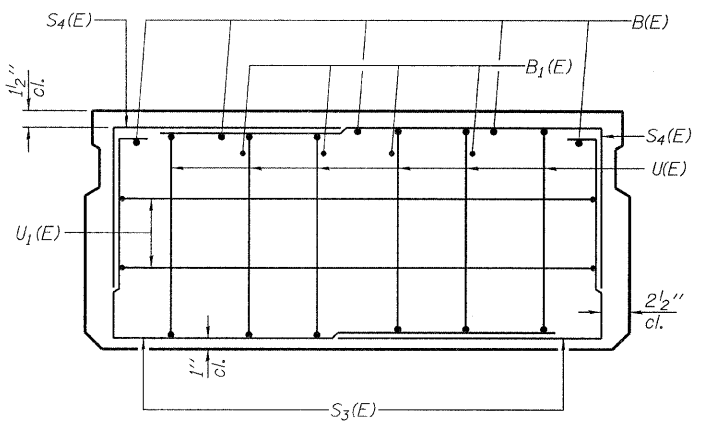
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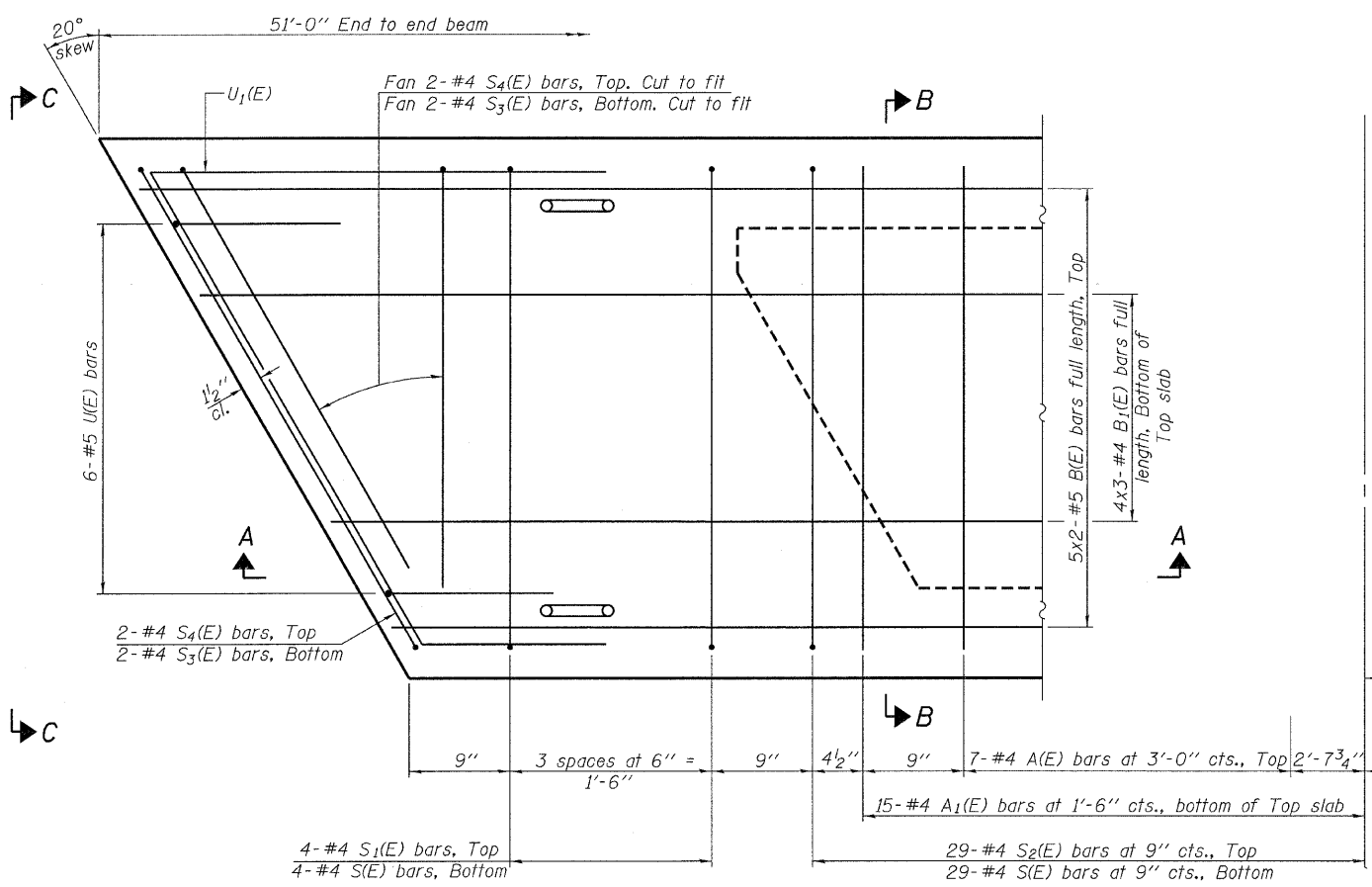
SECTION A-A



SECTION B-B
(Showing dimensions)

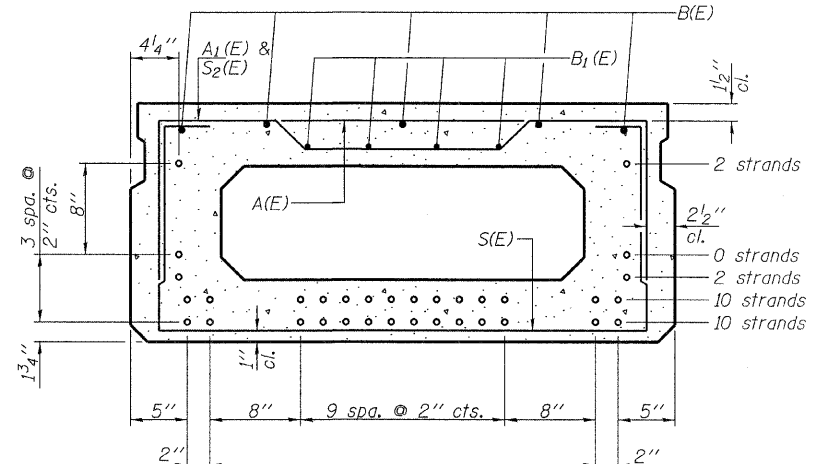


VIEW C-C



PLAN VIEW

Notes:
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.
Bars indicated thus 4x2-#5 etc. indicates 4 lines of bars with 2 lengths per line.



SECTION B-B

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

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	15	#4	3'-7"	—
A1(E)	30	#4	3'-10"	—
B(E)	10	#5	26'-7"	—
B1(E)	12	#4	18'-3"	—
S(E)	66	#4	7'-5"	⌈
S1(E)	8	#4	5'-11"	⌈
S2(E)	58	#4	6'-2"	⌈
S3(E)	8	#4	4'-9"	⌈
S4(E)	8	#4	4'-0"	⌈
U(E)	12	#5	4'-0"	⌈
U1(E)	4	#4	7'-6"	⌈

Note: See sheet 4 & 5 of For additional details and Bill of Material.

MINIMUM BAR LAP

#4 bar = 2'-0"
#5 bar = 2'-6"

PD-2148-R 7-1-10

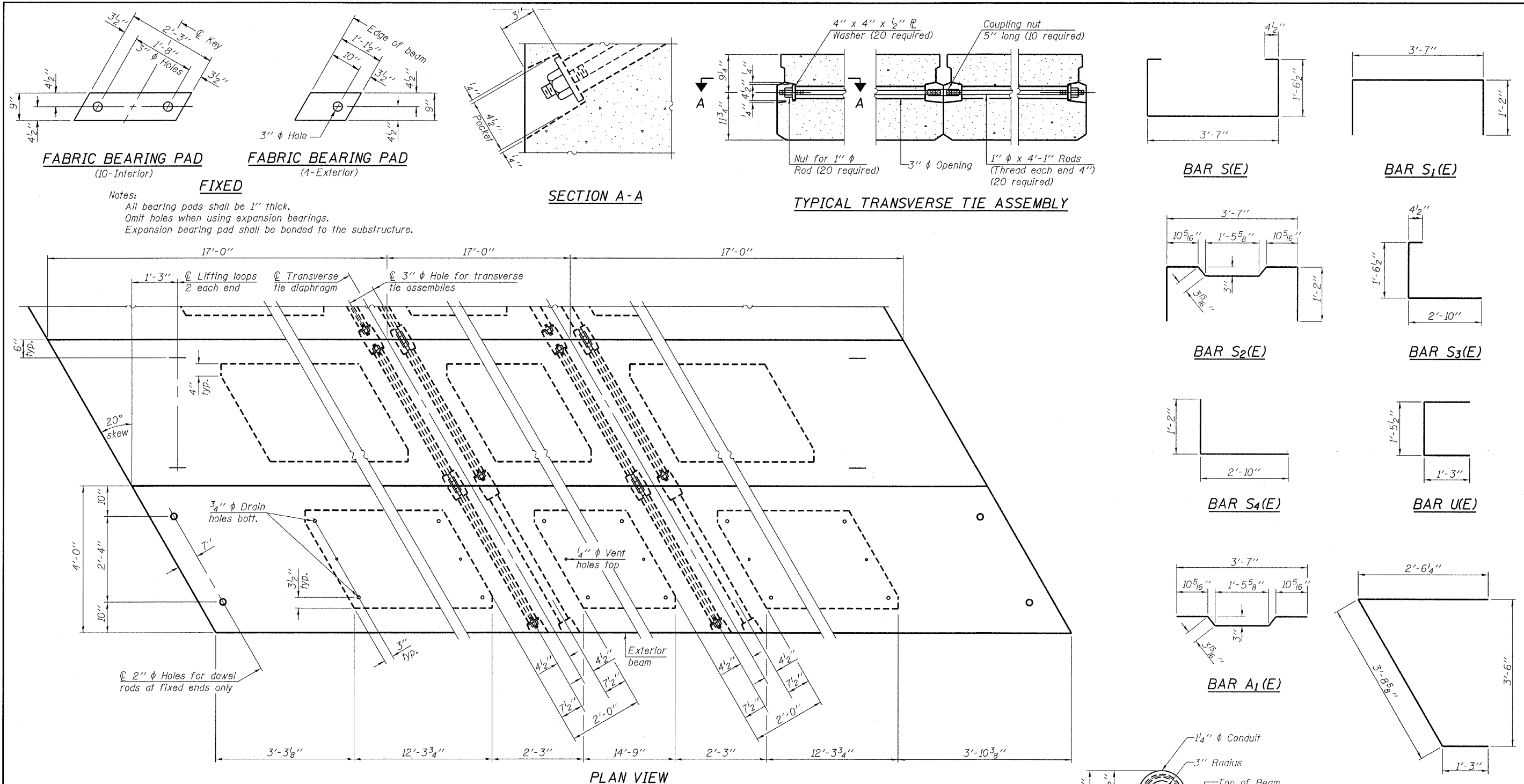
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3685 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILL. 62703	PLDT SCALE =	DRAWN - D.T.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 134-000859	PLDT DATE = 3/7/2012	CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
CLAY COUNTY HIGHWAY DEPARTMENT

21" x 48" PPC DECK BEAM
STRUCTURE NO. 013-3238

SHEET NO. 3 OF 11 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
355	07-11130-00-BR	CLAY	29	21
STANFORD ROAD DISTRICT		CONTRACT NO. 95667		
ILLINOIS FED. AID PROJECT BROS-002107D				



Notes:
 All bearing pads shall be 1" thick.
 Omit holes when using expansion bearings.
 Expansion bearing pad shall be bonded to the substructure.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).

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

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

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

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

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

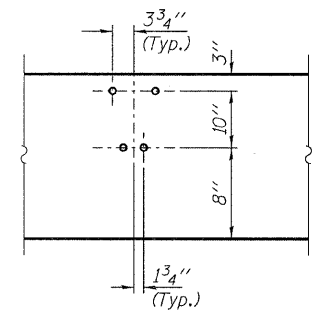
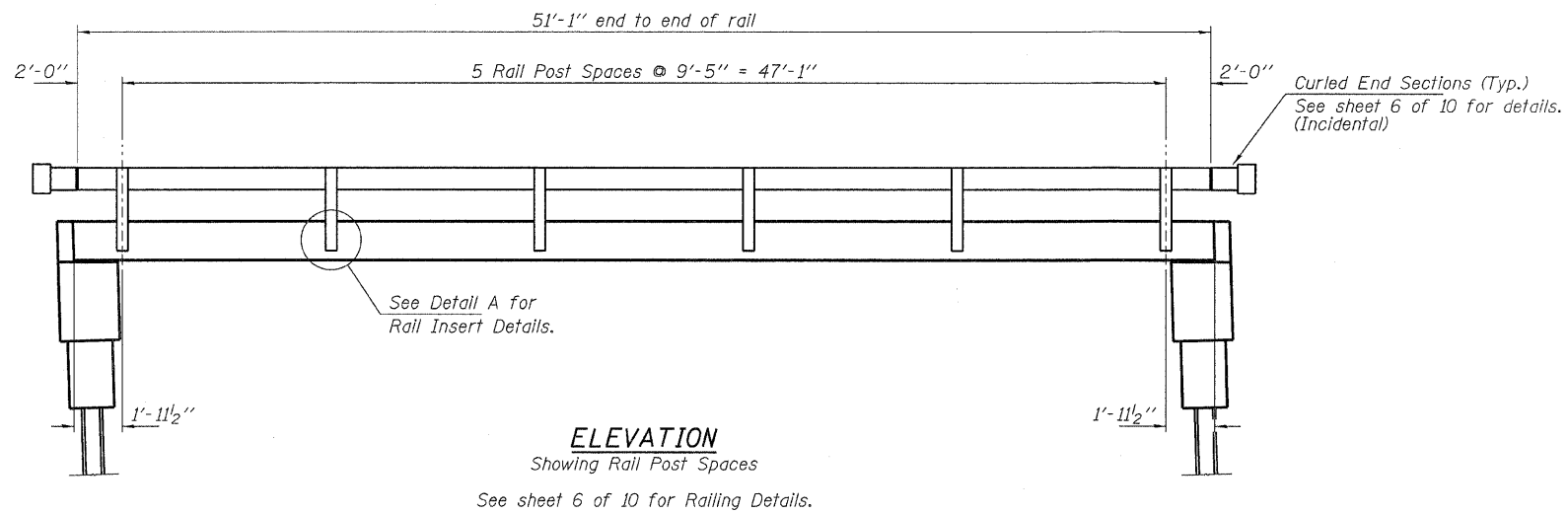
Note: Connect beams in pairs with the transverse tie configuration shown.

BILL OF MATERIAL

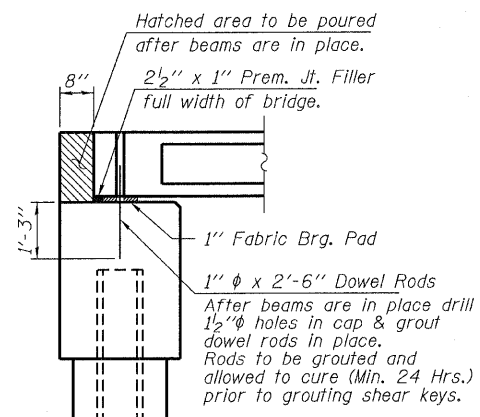
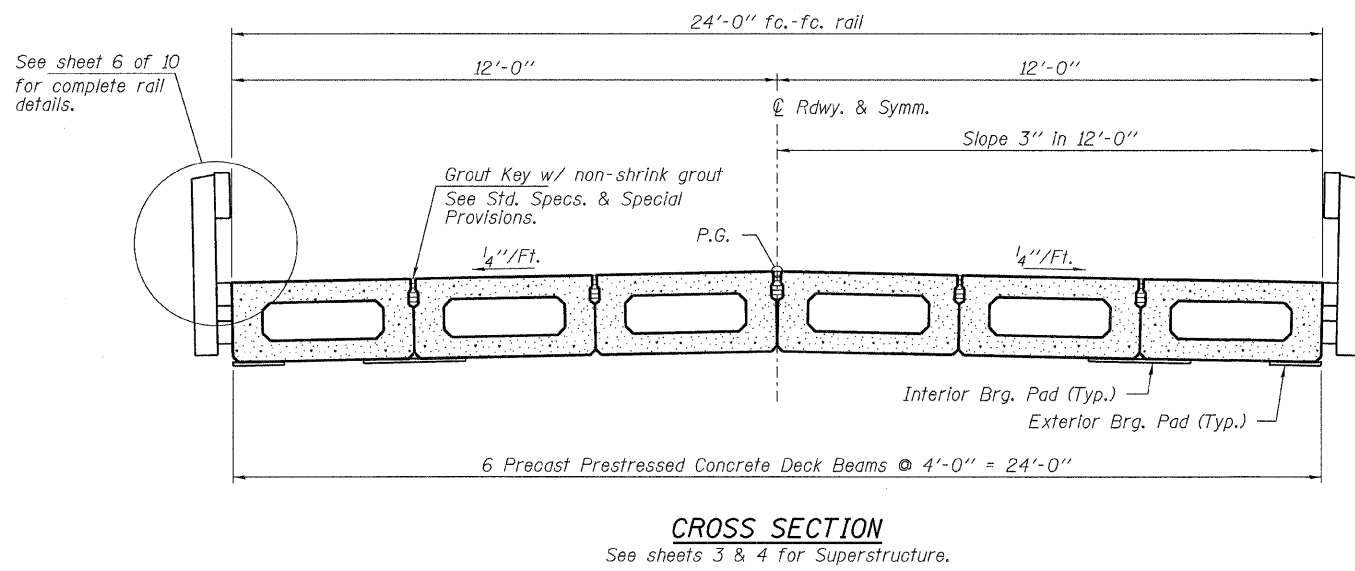
Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	1,224
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PD-2148-RD 7-1-10

HAMPTON, LENZINI AND RENWICK, INC.
 355 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184-000889

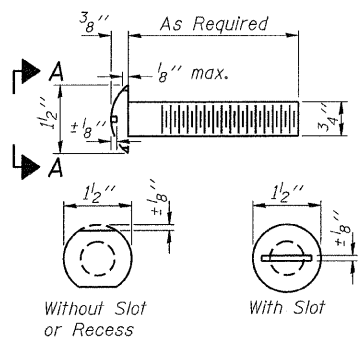


DETAIL A

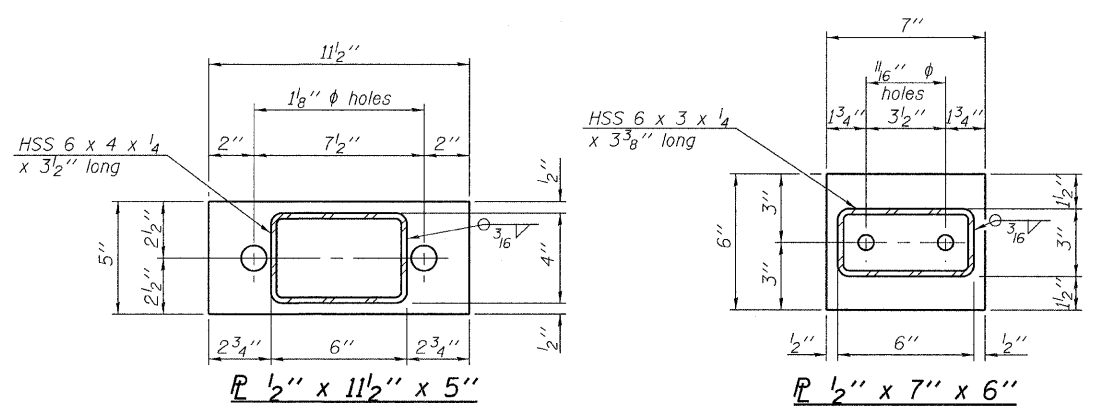


SECTION AT ABUTMENTS
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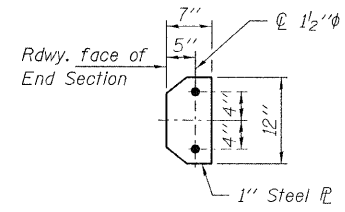
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3443 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - D.T.M.	REVISED -			STANFORD ROAD DISTRICT CONTRACT NO. 95667					
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-000959	PLOT DATE = 3/7/2012	CHECKED - S.W.M.	REVISED -			SHEET NO. 5 OF 11 SHEETS					
						ILLINOIS FED. AID PROJECT BR05-0025107D					



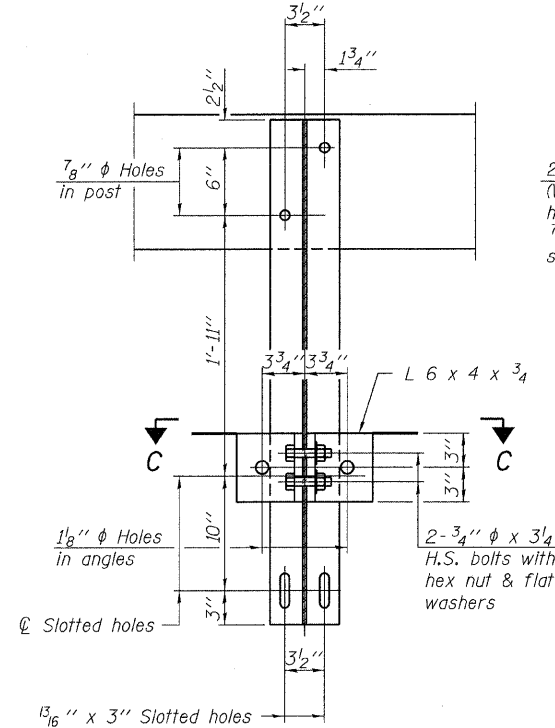
**VIEW A-A
ROUND HEAD BOLT**



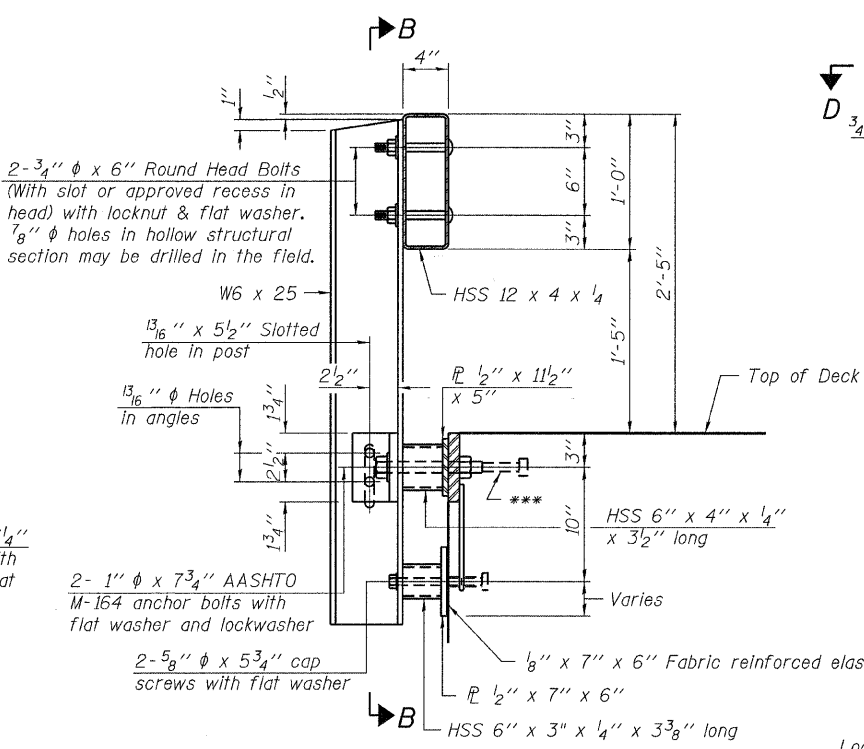
Note: Cost of curled end sections shall be included with the Steel Railing. (4 Required)



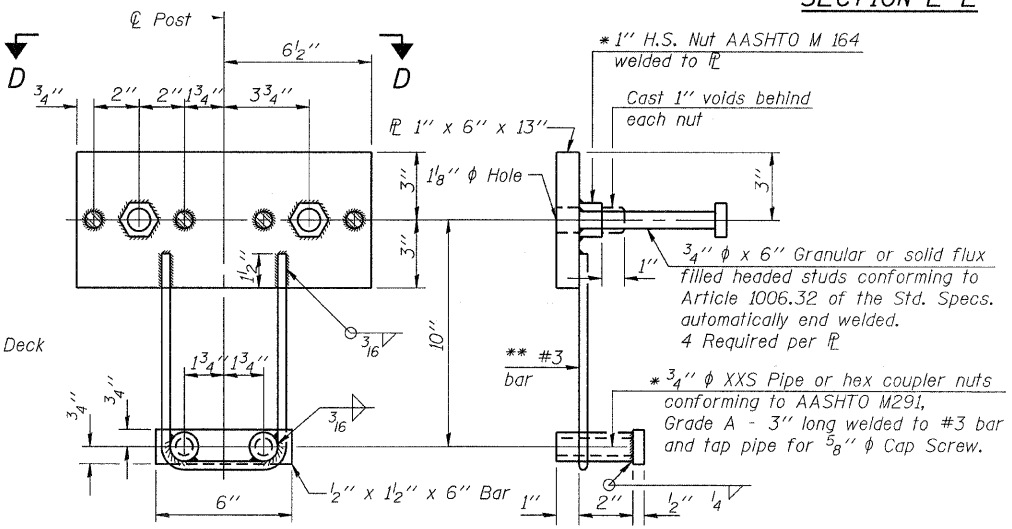
**SECTION E-E
CURLLED END SECTION DETAILS**



SECTION B-B

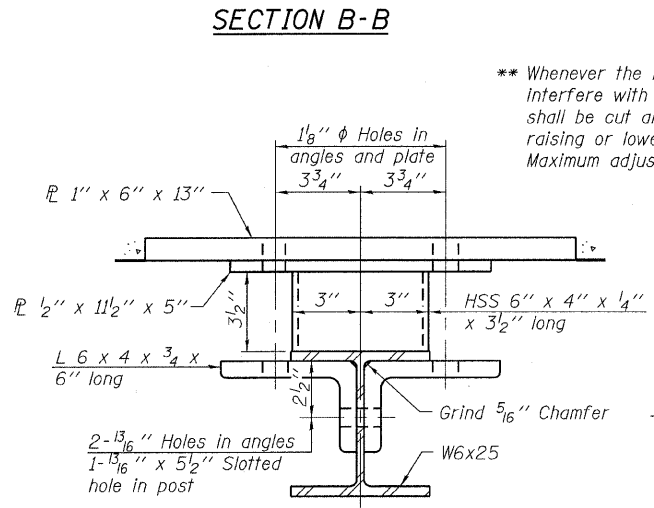


SECTION AT RAILING POST

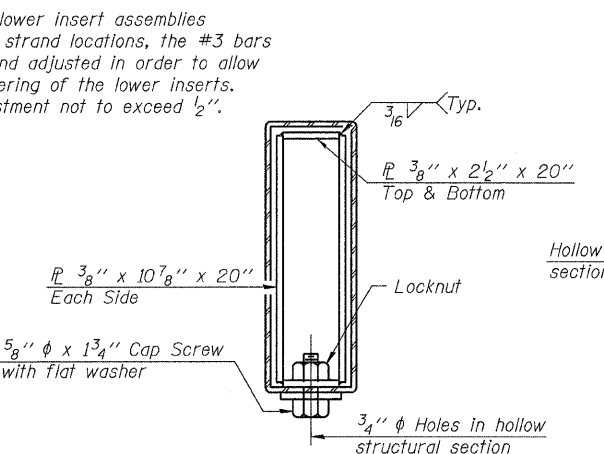


ANCHOR DEVICE

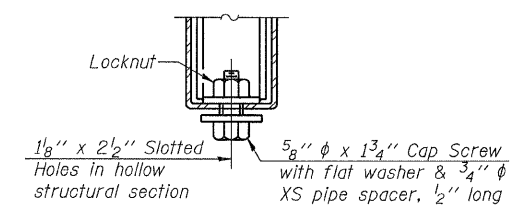
Notes:
All field drilled holes shall be coated with an approved zinc rich paint before erection.
For multi-span bridges, sufficient 1/4 inch x 6 inch x 1-2 inch galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
*** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



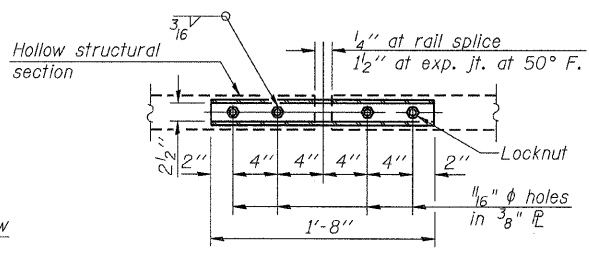
SECTION C-C



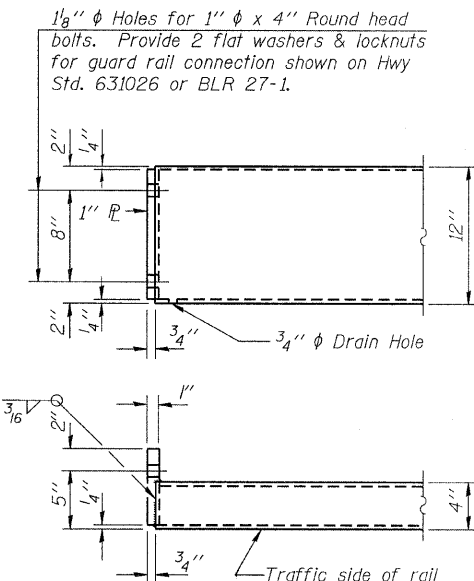
SECTIONS AT RAIL SPLICE



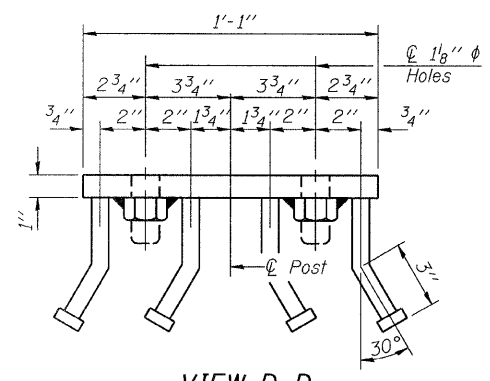
**RAIL SPLICE CONNECTION
AT EXPANSION JT.**



**PLAN-BOTT. SPLICE PL
TYPICAL**



END OF RAIL DETAILS



VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	102

R-23A 7-1-10 (10'-9" Maximum Post Spacing)

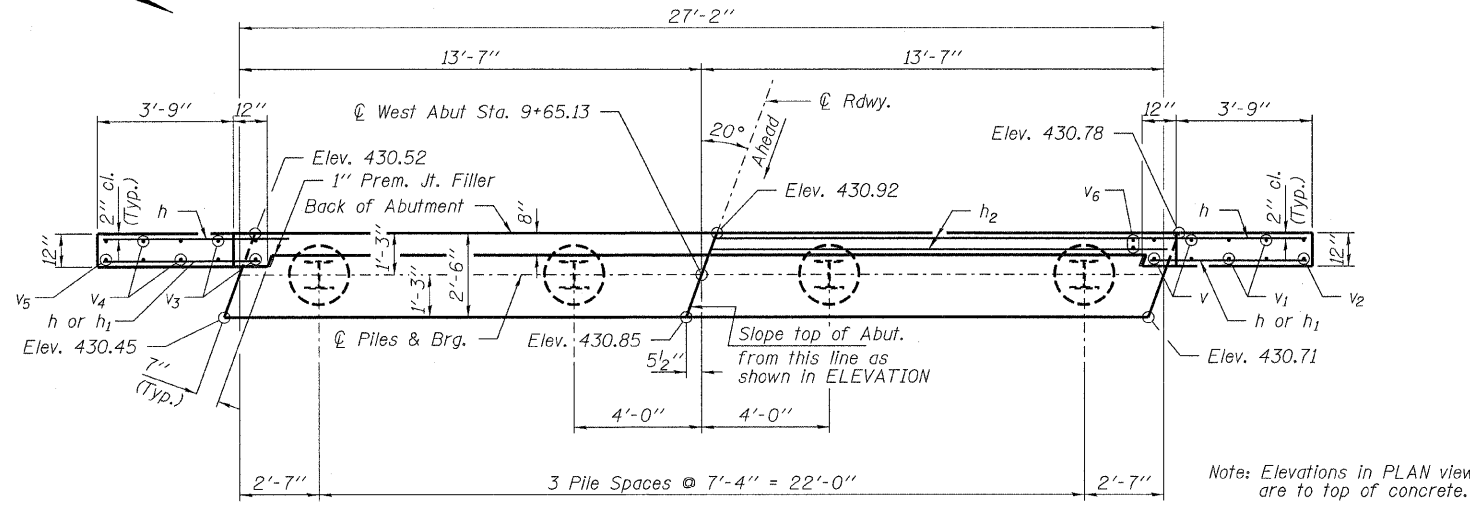
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1045 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - D.T.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LEV. REG. NO. 00000000	PLOT DATE = 3/7/2012	CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
CLAY COUNTY HIGHWAY DEPARTMENT

STEEL RAILING, TYPE S-1
STRUCTURE NO. 013-3238

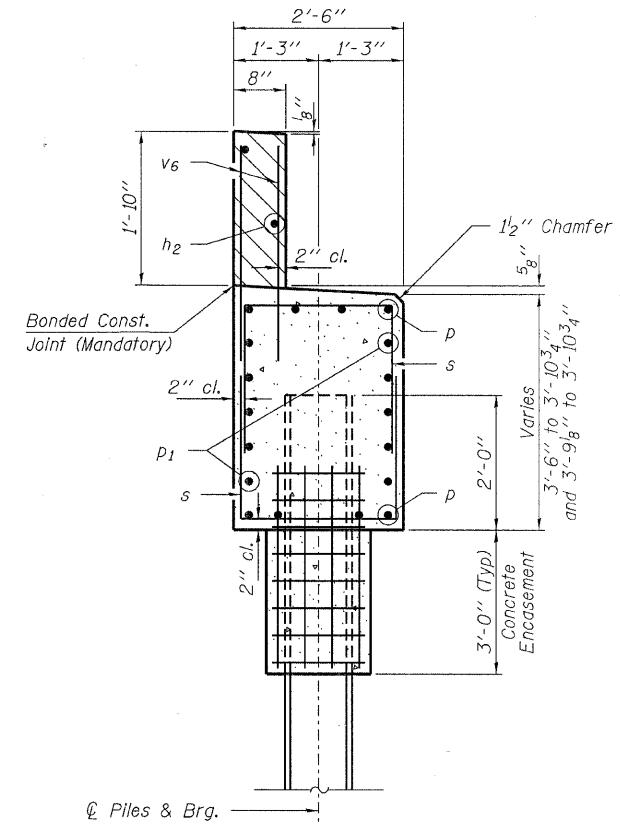
SHEET NO. 6 OF 11 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STANFORD ROAD DISTRICT		CONTRACT NO. 95667		
(ILLINOIS) FED. AID PROJECT BROS-00250701				



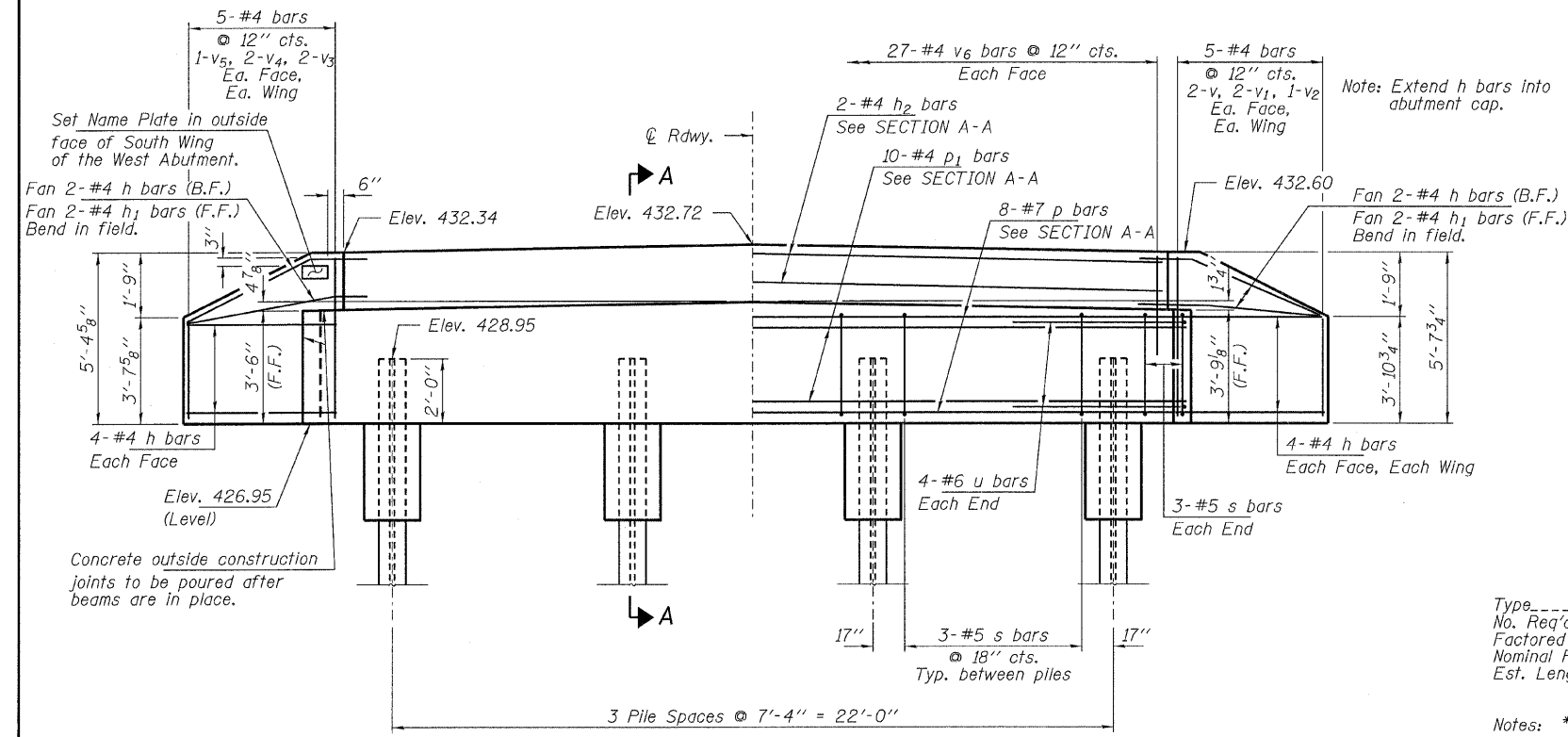
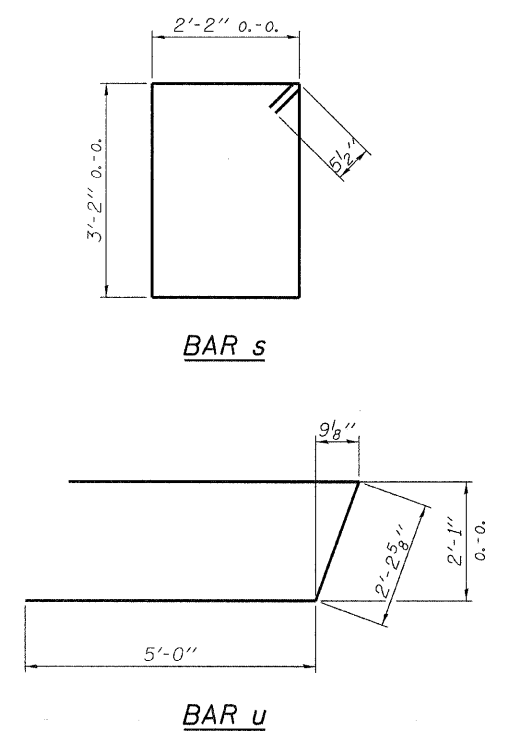
PLAN

Note: Elevations in PLAN view are to top of concrete.



SECTION A-A

Hatched area to be poured after beams are in place.



ELEVATION
(Looking West)

Note: Extend h bars into abutment cap.

Set Name Plate in outside face of South Wing of the West Abutment.
Fan 2-#4 h bars (B.F.)
Fan 2-#4 h1 bars (F.F.)
Bend in field.

Fan 2-#4 h bars (B.F.)
Fan 2-#4 h1 bars (F.F.)
Bend in field.

Concrete outside construction joints to be poured after beams are in place.

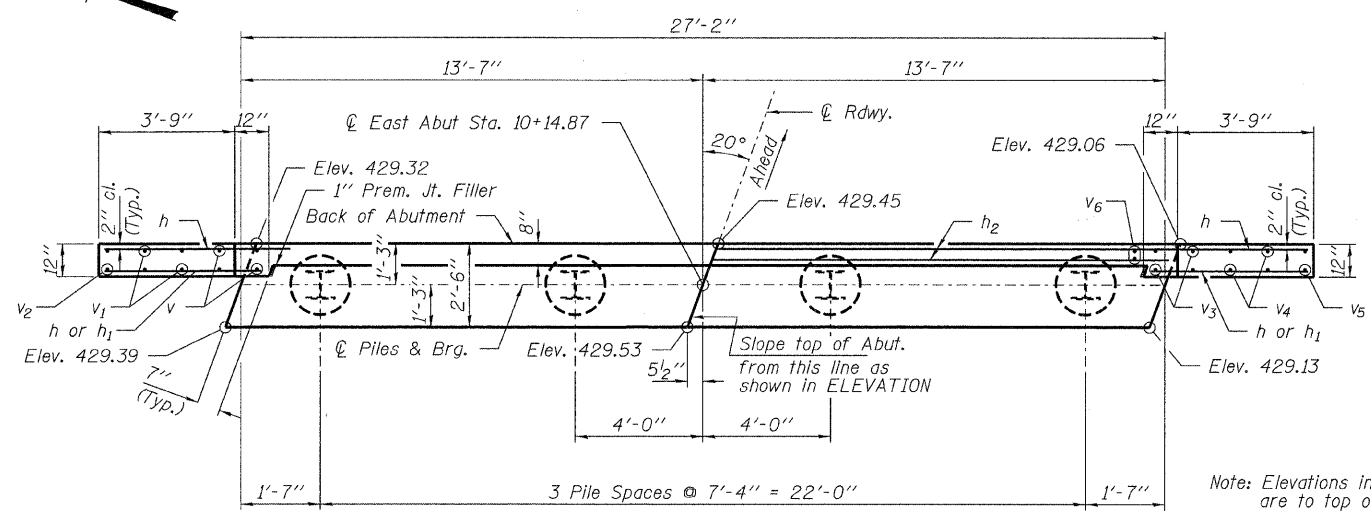
PILE DATA

Type: Steel HP10x42
No. Req'd. (W. Abut.): 4
Factored Resistance Available (Rf): 184 Kips/Pile
Nominal Required Bearing (Rn): 335 Kips/Pile
Est. Length: 55 Ft/Pile

Notes: * Includes one test pile to be driven in permanent location at the West Abutment.
The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

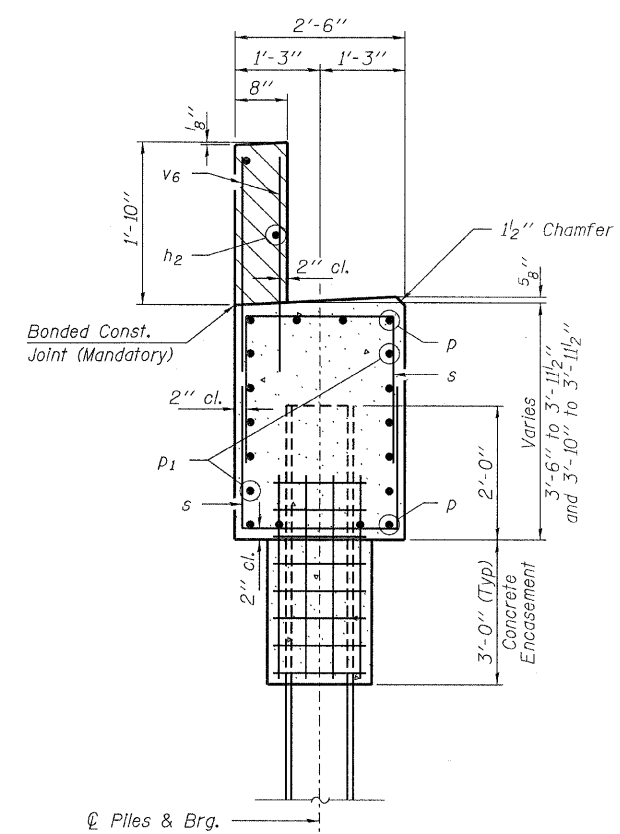
BILL OF MATERIAL - W. ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
h	20	#4	6'-0"	—
h1	4	#4	4'-6"	—
h2	2	#4	26'-10"	—
p	8	#7	26'-10"	—
p1	10	#4	26'-10"	—
s	15	#5	11'-7"	□
u	8	#6	12'-3"	U
v	4	#4	5'-1"	—
v1	4	#4	4'-1"	—
v2	2	#4	3'-7"	—
v3	4	#4	4'-10"	—
v4	4	#4	3'-10"	—
v5	2	#4	3'-4"	—
v6	54	#4	2'-8"	—
Concrete Structures			Cu. Yd.	12.2
Concrete Encasement			Cu. Yd.	1.4
Reinforcement Bars			Pound	1,230
Steel Piles HP10x42			Foot	165
Name Plates			Each	1



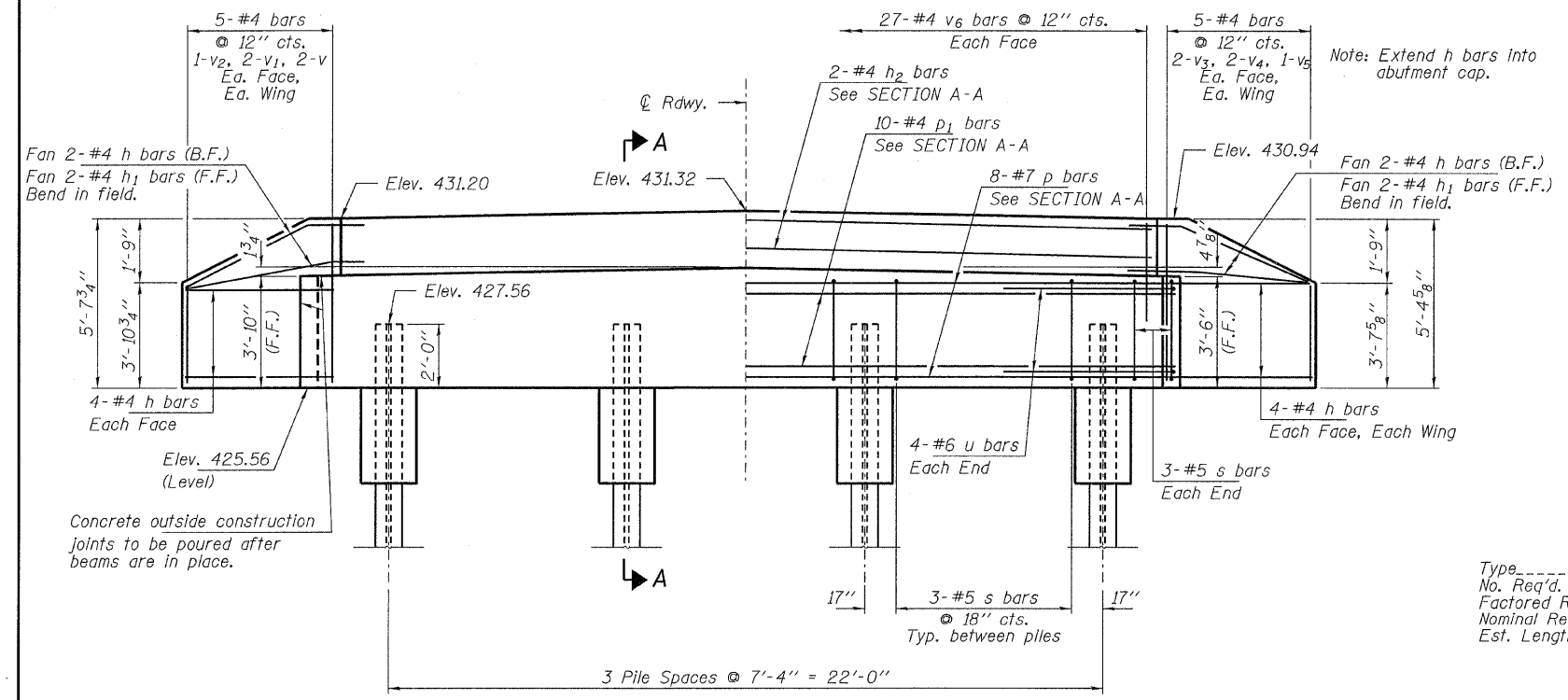
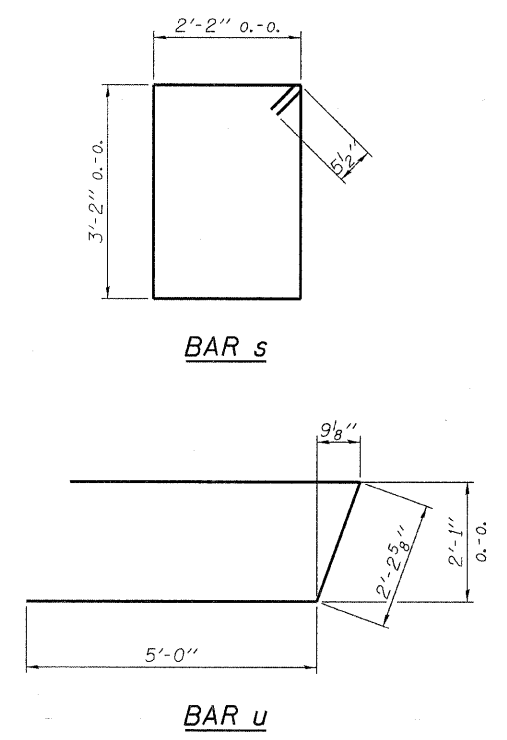
PLAN

Note: Elevations in PLAN view are to top of concrete.



SECTION A-A

Hatched area to be poured after beams are in place.



ELEVATION
(Looking East)

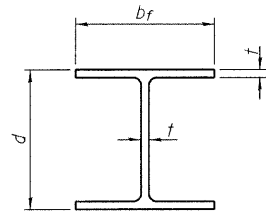
Note: Extend h bars into abutment cap.

PILE DATA

Type: Steel HP10x42
 No. Req'd. (E. Abut.): 4
 Factored Resistance Available (Rf): 184 Kips/Pile
 Nominal Required Bearing (Rn): 335 Kips/Pile
 Est. Length: 50 Ft/Pile

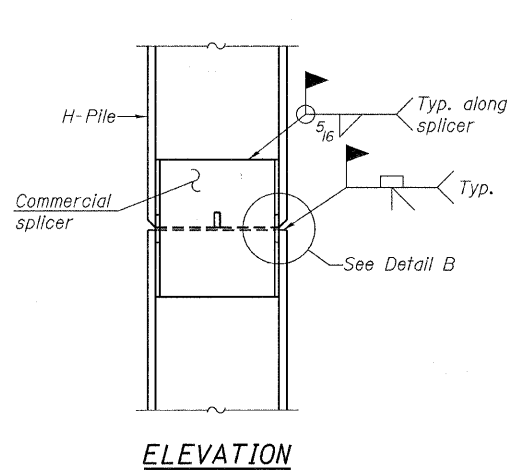
BILL OF MATERIAL - E. ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
h	20	#4	6'-0"	—
h1	4	#4	4'-6"	—
h2	2	#4	26'-10"	—
p	8	#7	26'-10"	—
p1	10	#4	26'-10"	—
s	15	#5	11'-7"	□
u	8	#6	12'-3"	⊏
v	4	#4	5'-1"	—
v1	4	#4	4'-1"	—
v2	2	#4	3'-7"	—
v3	4	#4	4'-10"	—
v4	4	#4	3'-10"	—
v5	2	#4	3'-4"	—
v6	54	#4	2'-8"	—
Concrete Structures			Cu. Yd.	12.2
Concrete Encasement			Cu. Yd.	1.4
Reinforcement Bars			Pound	1,230
Steel Piles HP10x42			Foot	200

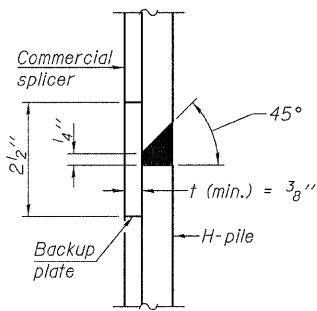


STEEL PILE TABLE

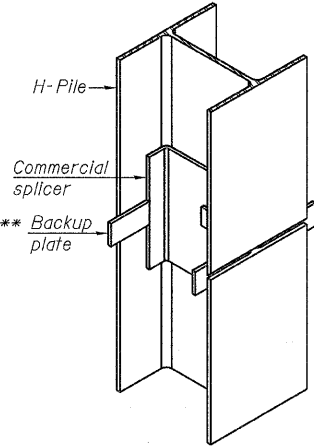
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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



ELEVATION

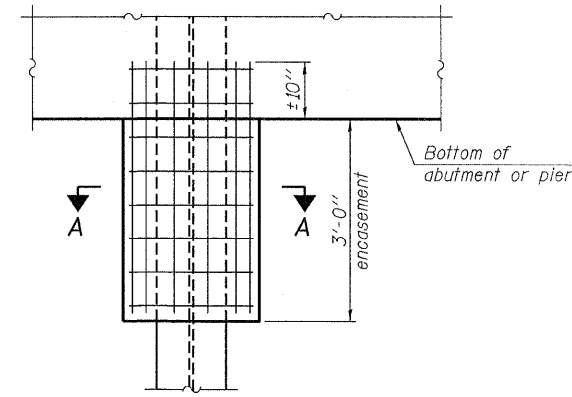


DETAIL "B"



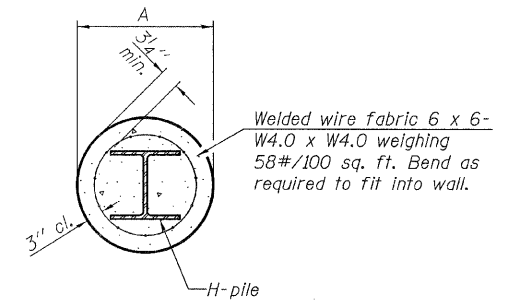
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



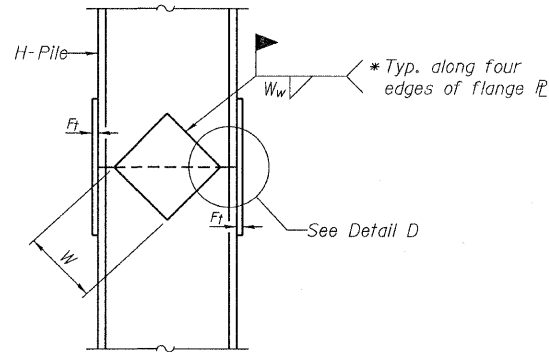
ELEVATION

PILE ENCASEMENT

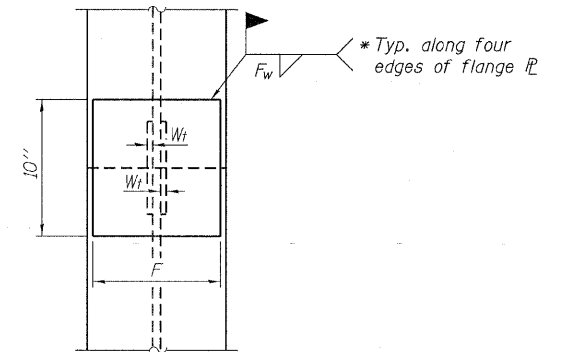


SECTION A-A

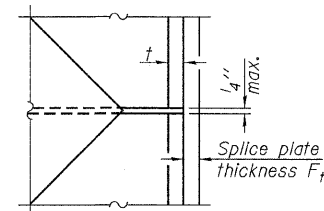
Note:
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



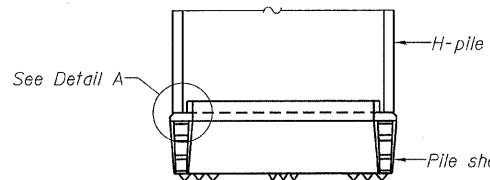
END VIEW



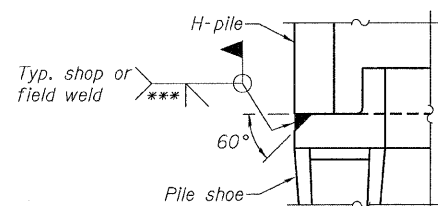
DETAIL D

WELDED PLATE FIELD SPLICE

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

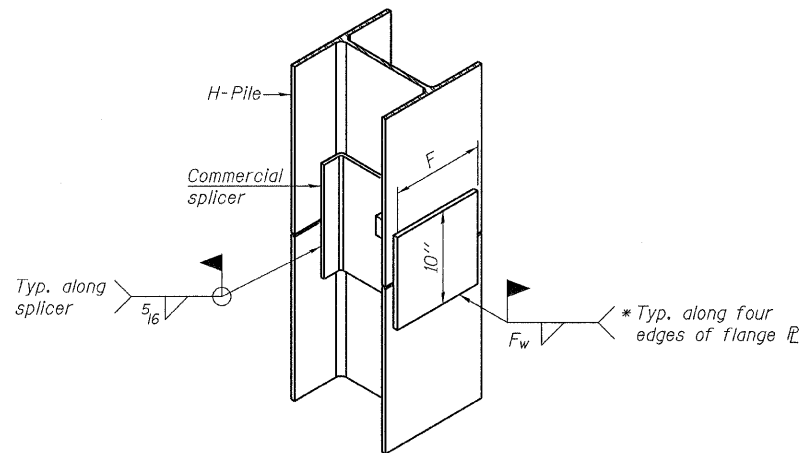


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

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

NOBLE		BORING No. B-1			water level reading					
ENGINEERING CONSULTANTS		County: Clay, IL		Sheet No. 1 of 2		1st encounter: 8'				
Client: Clay County Highway Dept.		Weather: overcast		Temperature: low 50's		water level reading				
Driller: Noble Engineering Consultants		Date Start: 3-08-11		Surface Elevation: Bridge Deck		@completion 6' @ 17hrs				
Location: Structure #3123 Stanford		Date Finished: 3-08-11		Driller: Eric Seals		Backfill: Soil cuttings				
Depth:	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description	W %	USC Class.	Elev.**
1										-2
2	SS-1	1.0'-2.5'	6	2-2-4	30	0.5	0.0'-6.5' silt, clay, sand, etc POSSIBLE FILL	25.6	FILL	-3
3										-4
4	SS-2	3.5'-5.0'	6	2-3-3	30	0.5		20.8	FILL	-5
5										-6
6	SS-3	6.0'-7.5'	3	2-1-2	100	-	6.5'-9.0' SILTY FINE SAND, wet, very loose, brown	25.9	SM	-7
7										-8
8										-9
9	SS-4	8.5'-10.0'	11	1-5-6	100	1.25	9.0'-19.0' SILTY CLAY, trace to some sand, trace to some gravel, stiff to medium, brown	16.5	CL	-10
10										-11
11										-12
12										-13
13										-14
14	SS-5	13.5'-15.0'	9	3-5-4	100	0.5		31.9	CL	-15
15										-16
16										-17
17										-18
18										-19
19	SS-6	18.5'-20.0'	19	5-7-12	100	1.75	19.0'-49.0' CLAY, trace to some sand, trace to some gravel, stiff to medium, gray	17.5	CH	-20
20										-21
21										-22
22										-23
23										-24
24	SS-7	23.5'-25.0'	21	5-9-12	100	1.25		19	CH	-25
25										-26
26										-27
27										-28
28										-29
29										-30
30	SS-8	28.5'-30.0'	19	5-8-11	100	1.0		21.5	CH	-31
Drilling Method: HSA (2-1/4" ID)		comments		* Qp test is an estimate of the unconfined compressive strength performed by a compact calibrated spring loaded cylinder						
Depth: 0' to 50'		comments		** ground surface elevation at boring location is estimated and is not surveyed						
Drill Rig: Mobile B-47		comments								
Sampling: split-spoon (SS)		comments								

NOBLE		BORING No. B-1			water level reading					
ENGINEERING CONSULTANTS		County: Clay, IL		Sheet No. 2 of 2		1st encounter: 8'				
Client: Clay County Highway Dept.		Weather: Overcast		Temperature: low 50's		water level reading				
Driller: Noble Engineering Consultants		Date Start: 3-08-11		Surface Elevation: Bridge Deck		@completion 6' @ 17 hrs				
Location: Structure #3123 Stanford		Date Finished: 3-08-11		Driller: Eric Seals		Backfill: Soil Cuttings				
Depth:	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description	W %	USC Class.	Elev.**
31										-32
32										-33
33										-34
34	SS-9	33.5'-35.0'	10	3-5-5	100	0.75	19.0'-49.0' CLAY, trace to some sand, trace to some gravel, stiff to medium, gray	23.8	CH	-35
35										-36
36										-37
37										-38
38										-39
39	SS-10	38.5'-40.0'	8	3-3-5	100	0.75		24.3	CH	-40
40										-41
41										-42
42										-43
43										-44
44	SS-11	43.5'-45.0'	12	2-6-6	100	1.0		21.9	CH	-45
45										-46
46										-47
47										-48
48										-49
49	SS-12	48.5'-50.0'	134+	8-34-100/3"	100	-	49.0'-49.8' HIGHLY WEATHERED SHALE	9		-50
50										-51
EOB 49.8'										
Drilling Method: HSA (2-1/4" ID)		comments		* Qp test is an estimate of the unconfined compressive strength performed by a compact calibrated spring loaded cylinder						
Depth: 0' to 49.8'		comments		** ground surface elevation at boring location is estimated and is not surveyed						
Drill Rig: Mobile B-47		comments								
Sampling: split-spoon (SS)		comments								

BORING 1

NOBLE				BORING No. B-2		water level reading				
ENGINEERING CONSULTANTS		County: Clay, IL		Sheet No. 1 of 2		1st encounter: 9'				
Client: Clay County Highway Dept.		Weather: overcast		Temperature: low 50's		water level reading				
Driller: Noble Engineering Consultants		Date Start: 3-08-11		Surface Elevation: Bridge Deck		@completion Dry Cave 6'				
Location: Structure #3123 Stanford		Date Finished: 3-09-11		Driller: Eric Seals		Backfill: Soil Cuttings				
Depth:	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description	w %	USC Class.	Elev.**
1										-2
2	SS-1	1.0'-2.5'	9	2-4-5	30	1.25	0.0'-1.5' silt, clay, sand, etc POSSIBLE FILL	23.4	CL	-3
3										-4
4	SS-2	3.5'-5.0'	4	2-2-2	30	0.5	1.5'-6.0' SILTY CLAY, trace to some sand, trace gravel, medium, brown	18.6	CL	-5
5										-6
6	SS-3	6.0'-7.5'	9	2-4-5	40	-		20.3	SM	-7
7										-8
8										-9
9	SS-4	8.5'-10.0'	5	1-2-3	50	1.0	6.0'-9.0' SILTY FINE SAND, trace gravel, loose, wet, brown	33.1	CL	-10
10										-11
11										-12
12										-13
13										-14
14	SS-5	13.5'-15.0'	45	8-21-23	100	4.5+	9.0'-14.0' SILTY CLAY, trace to some sand, trace to some gravel, stiff, brown mottled gray	11.4	CH	-15
15										-16
16										-17
17										-18
18										-19
19	SS-6	18.5'-20.0'	27	7-11-16	100	2.5	14.0'-49.0' CLAY, trace to some sand, trace to some gravel, hard to medium, gray	15.7	CH	-20
20										-21
21										-22
22										-23
23										-24
24	SS-7	23.5'-25.0'	29	7-11-18	100	3.0		14.5	CH	-25
25										-26
26										-27
27										-28
28										-29
29										-30
30	SS-8	28.5'-30.0'	12	4-5-7	100	1.5		20.7	CH	-31
Drilling Method: HSA (2-1/4" id)				comments		* Qp test is an estimate of the unconfined compressive strength performed				
Depth: 0' to 49.2'						by a compact calibrated spring loaded cylinder				
Drill Rig: Mobile B-47						** ground surface elevation at boring location is estimated and is not surveyed				
Sampling: split-spoon (SS)										

NOBLE				BORING No. B-2		water level reading				
ENGINEERING CONSULTANTS		County: Clay, IL		Sheet No. 2 of 2		1st encounter: 9'				
Client: Clay County Highway Dept.		Weather: Overcast		Temperature: low 50's		water level reading				
Driller: Noble Engineering Consultants		Date Start: 3-08-11		Surface Elevation: Bridge Deck		@completion Dry cave 6'				
Location: Structure #3123 Stanford		Date Finished: 3-09-11		Driller: Eric Seals		Backfill: Soil Cuttings				
Depth:	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description	w %	USC Class.	Elev.**
31										-32
32										-33
33										-34
34	SS-9	33.5'-35.0'	8	3-4-4	100	0.75	14.0'-49.0' CLAY, trace to some sand, trace to some gravel, hard to medium, gray	24.3	CH	-35
35										-36
36										-37
37										-38
38										-39
39	SS-10	38.5'-40.0'	20	5-9-11	100	1.25		25.1	CH	-40
40										-41
41										-42
42										-43
43										-44
44	SS-11	43.5'-45.0'	20	8-9-11	100	-		22.9	CH	-45
45										-46
46										-47
47										-48
48										-49
49	SS-12	48.5'-50.0'	118+	18-100/2"	100	-	49.0'-49.2' HIGHLY WEATHERED SHALE	12.5		-50
50										-51
EOB 49.2'										
Drilling Method: HSA (2-1/4" id)				comments		* Qp test is an estimate of the unconfined compressive strength performed				
Depth: 0' to 49.2'						by a compact calibrated spring loaded cylinder				
Drill Rig: Mobile B-47						** ground surface elevation at boring location is estimated and is not surveyed				
Sampling: split-spoon (SS)										

BORING 2