

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 15	13-00209-00-BR	JEFFERSON	38	1
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 99524		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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

**PROJECT BROS-0081(076)
SECTION 13-00209-00-BR
JEFFERSON COUNTY
C.H. 15 / PANZIER LANE
PROPOSED STRUCTURE NO. 041-3755
C-99-518-14**

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	SCHEDULE OF QUANTITIES
4.	TYPICAL CROSS SECTIONS
5-7.	PLAN AND PROFILE
8.	GUARDRAIL & SHOULDER LAYOUT
9-26.	STATION CROSS SECTIONS
27-28.	CULVERT PLANS
29-37.	BRIDGE PLANS
38.	BORINGS

HIGHWAY STANDARDS:

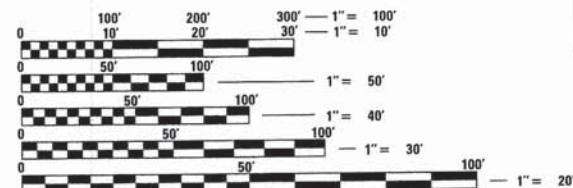
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
515001-03	NAME PLATE FOR BRIDGES
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701901-03	TRAFFIC CONTROL DEVICES
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 27-1	TRAFFIC BARRIER TERMINAL, TYPE 5A

UTILITIES

TRI-COUNTY ELECTRIC COOPERATIVE
3906 BROADWAY
MT. VERNON, ILLINOIS 62864
(618)244-5151

FRONTIER COMMUNICATIONS
111 EAST STATE STREET
MASCOUTAH, ILLINOIS 62258
(618)566-9815

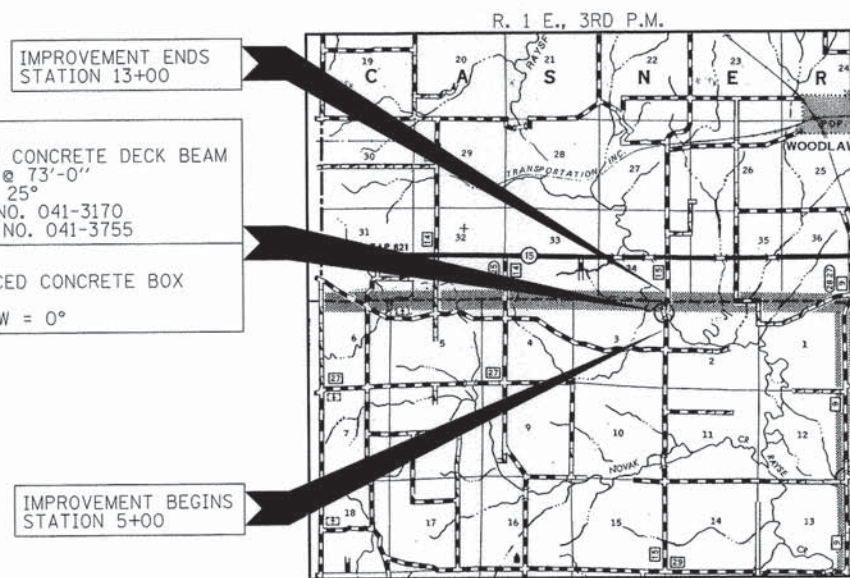
VILLAGE OF WOODLAWN
202 S. CENTRAL STREET
WOODLAWN, ILLINOIS 62898
(618)244-7819



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
DESIGN SPEED: 30 MPH
DESIGN TRAFFIC: 304 ADT (2034)



STA. 10+25
PRECAST PRESTRESSED CONCRETE DECK BEAM
BRIDGE. THREE SPANS @ 73'-0"
28'-0" RDWY.; SKEW = 25°
EXISTING STRUCTURE NO. 041-3170
PROPOSED STRUCTURE NO. 041-3755

STA. 5+75
SINGLE 7'X7' REINFORCED CONCRETE BOX
CULVERT W/DROPBOX
LENGTH = 42'-0"; SKEW = 0°

LOCATION MAP

APPROXIMATE SCALE: 0 1 MILE
NET LENGTH OF SECTION = 800 FEET = 0.15 MILES



JEFFERSON COUNTY HIGHWAY DEPARTMENT

APPROVED 4-7-2014
[Signature]
COUNTY ENGINEER

PASSED April 10 2014
[Signature]
DISTRICT NINE ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review
April 10 2014
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



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

EXPIRES: 11/30/2015
PROJECT NUMBER: 13.0266.130
DATE: 04/03/14

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION CODE 0011	
		UNIT	TOTAL
^ 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	116
^ 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	97
^ 20100500	TREE REMOVAL, ACRES	ACRE	0.1
20200100	EARTH EXCAVATION	CU YD	365
20300100	CHANNEL EXCAVATION	CU YD	280
20700110	POROUS GRANULAR EMBANKMENT	TON	360
^ 28100807	STONE DUMPED RIPRAP, CLASS A4	TON	1,000
^ 40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	587
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	782
40300300	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	GALLON	1,777
40300500	COVER COAT AGGREGATE	TON	22
40300600	SEAL COAT AGGREGATE	TON	22
^ 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	45
50300225	CONCRETE STRUCTURES	CU YD	57.6
50300280	CONCRETE ENCASEMENT	CU YD	21.4
^ 50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	6,132
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	13,430
* 50900205	STEEL RAILING, TYPE S1	FOOT	458
51201610	FURNISHING STEEL PILES HP12X63	FOOT	1,100
51202305	DRIVING PILES	FOOT	1,100
51500100	NAME PLATES	EACH	1
^ 54003000	CONCRETE BOX CULVERTS	CU YD	55.0
^ 59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	66
* 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
* 63200310	GUARDRAIL REMOVAL	FOOT	307
67100100	MOBILIZATION	L SUM	1

^ SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION CODE 0011	
		UNIT	TOTAL
^ 78200410	GUARDRAIL MARKERS, TYPE A	EACH	8
^ 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	8
^ X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5

^ SEE SPECIAL PROVISIONS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED, JANUARY 1, 2012," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- ALL CLEARING AND GRUBBING, FENCE REMOVAL AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. THE REMOVAL OF THE EXISTING BITUMINOUS SURFACE WILL BE PAID FOR AS EARTH EXCAVATION. ALL BITUMINOUS MATERIAL SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR IN A METHOD APPROVED BY THE ENGINEER. PROPOSED DISPOSAL OF BITUMINOUS MATERIAL SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE LOCATION OF EXISTING GAS MAINS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION 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 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 MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- THE REVISION NUMBER INDICATED FOR THE STANDARDS LISTED IN THE INDEX OF SHEETS SHALL BE USED IN THE CONSTRUCTION OF THIS SECTION.
- TREES WITHIN THE RIGHT-OF-WAY THAT INTERFERE WITH CONSTRUCTION SHALL BE REMOVED ONLY AT THE DIRECTION OF THE ENGINEER. NO TREES MAY BE FELLED BETWEEN APRIL 1 AND SEPTEMBER 30. SEE SPECIAL PROVISION FOR TREE REMOVAL.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO ADJACENT PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES.

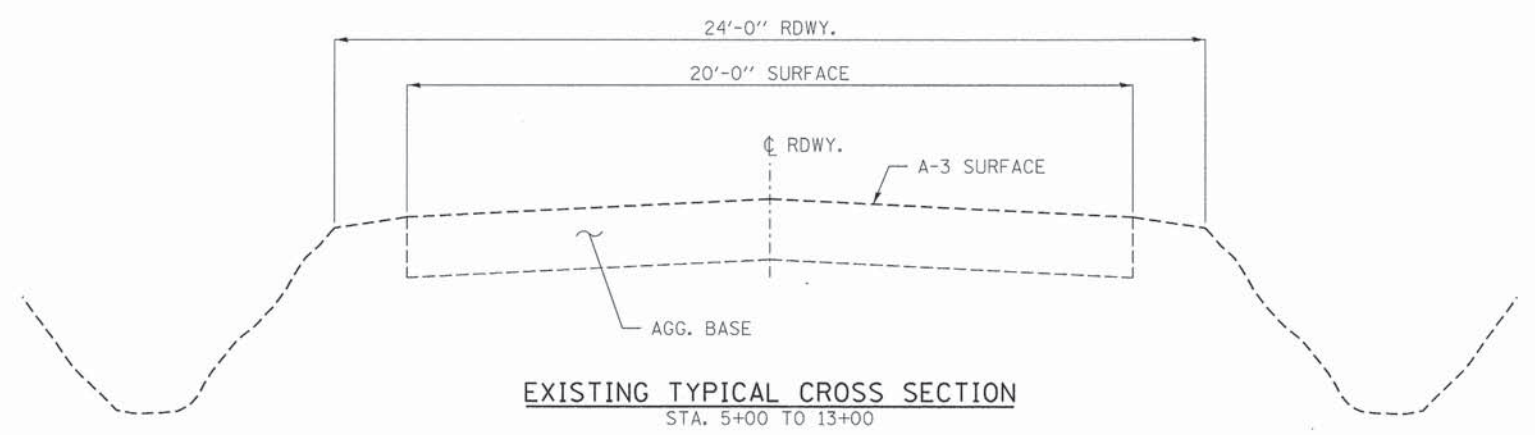
AGGREGATE SURFACE COURSE, TYPE B	2.05 TON/CU YD
STONE DUMPED RIPRAP, CLASS A4	1.75 TON/CU YD
POROUS GRANULAR EMBANKMENT	2.05 TON/CU YD
COVER/SEAL COAT AGGREGATE	25 LB/SQ YD
BITUMINOUS MATERIALS (PRIME COAT)	0.4 GAL/SQ YD
BITUMINOUS MATERIALS (COVER AND SEAL COATS)	0.35 GAL/SQ YD
- THE AREA TO BE SEEDED SHALL CONSIST OF ALL EARTH SURFACES WITHIN THE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER
SEEDING, CLASS 2 (SPECIAL) = 0.5 ACRES
- ALL WASTE MATERIAL FROM EXCAVATIONS SHALL BE DISPOSED OF BY THE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

EARTHWORK SUMMARY							
LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	% USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE WASTE (+) / SHORTAGE (-)
	20200100	20300100			CU YD	CU YD	
	CU YD	CU YD			CU YD	CU YD	
STA 5+00.00 TO STA 9+14.67	292		25.00%	100.00%	219	282	-63
STA 11+35.33 TO STA 13+00.00	72		25.00%	100.00%	54	175	-121
CHANNEL EXCAVATION		280	25.00%	70.00%	147		147
EXCAVATION FOR RIPRAP (500 CU. YD.)			25.00%	70.00%	438		438
TOTAL	364	280			858	457	401
USE	365	280					405

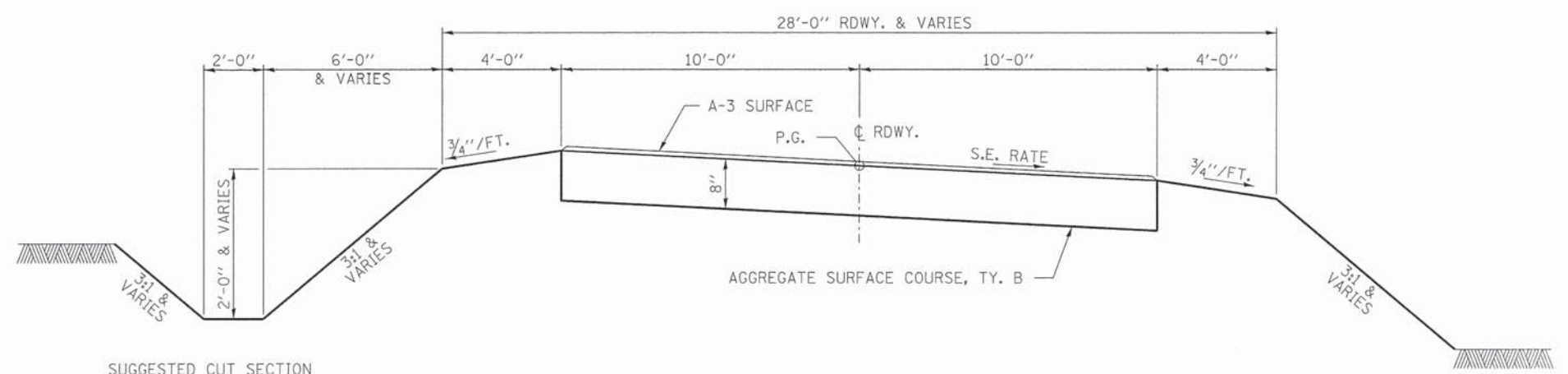
NOTE: THE COST OF EXCAVATION FOR RIPRAP IS NOT INCLUDED IN CHANNEL EXCAVATION, BUT IS INCLUDED IN THE COST OF STONE RIPRAP. WASTE 405 CU.YD.

GUARDRAIL SCHEDULE					
LOCATION	TRAFFIC BARRIER	TRAFFIC BARRIER TERMINAL TYPE 1	GUARDRAIL REMOVAL	GUARDRAIL MARKERS TYPE A	TERMINAL MARKER DIRECT APPLIED
	63100075	63100167 (SPECIAL) TANGENT	63200310	78200410	78201000
	EACH	EACH	FOOT	EACH	EACH
RT. STA 8+40.77 TO RT. STA 11+96.19	2	2	153	4	2
LT. STA 8+53.82 TO LT. STA 12+09.24	2	2	154	4	2
TOTAL	4	4	307	8	4

ROADWAY SCHEDULE					
LOCATION	AGGREGATE SURFACE COURSE TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	COVER COAT AGGREGATE	SEAL COAT AGGREGATE
	40200800	40300100	40300300	40300500	40300600
	TON	GAL	GAL	TON	TON
C.H. 15 (PANZIER LANE)					
STA 5+00 TO STA 13+00	587	782	1,777	22	22
TOTAL	587	782	1,777	22	22



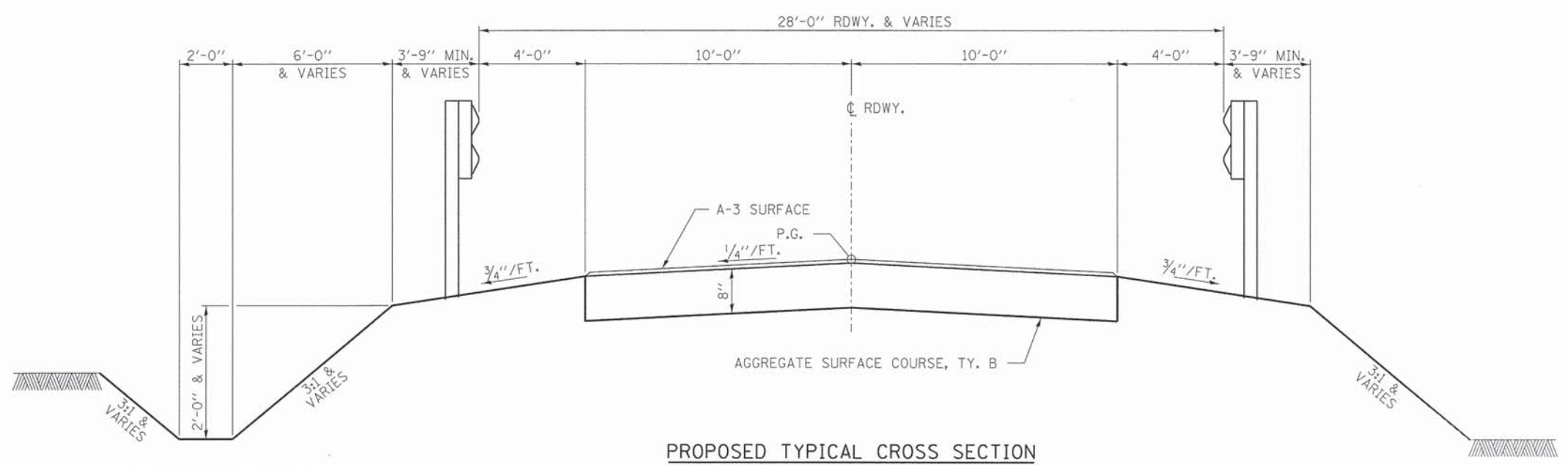
EXISTING TYPICAL CROSS SECTION
STA. 5+00 TO 13+00



PROPOSED TYPICAL CROSS SECTION
STA. 5+00 TO 7+37.69
TRANSITION FROM THE PROPOSED ROADWAY TO THE EXISTING ROADWAY IS TO BE CONSTRUCTED FROM STA. 5+00 TO 5+50

SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS



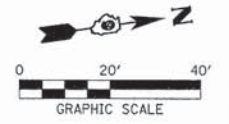
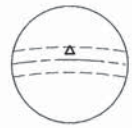
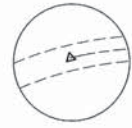
PROPOSED TYPICAL CROSS SECTION
STA. 7+37.69 TO 9+14.67
STA. 11+35.33 TO 13+00

SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

FILE NAME = 130266-sht-typsections.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS JEFFERSON COUNTY HIGHWAY DEPARTMENT	TYPICAL CROSS SECTIONS		C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3095 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62707 ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 184.003909	PLOT SCALE =	DRAWN - R.D.H.	REVISED -				15	13-00209-00-BR	JEFFERSON	38	4
PLOT DATE = 4/3/2014	DATE - 04/03/14	CHECKED - S.W.M.	REVISED -		SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.		CONTRACT NO. 99524		ILLINOIS FED. AID PROJECT BROS-0081076		
		DATE - 04/03/14	REVISED -								

STEVEN, NORVAL & MICHAEL PARO
SE 1/4, NE 1/4, SEC 3, T. 3 S., R. 1 E., 3RD P.M.



P.C. STA. 4+30.00
(TO BE SET)
N. 594322.08
E. 770812.78

STATION 5+55
PIPE CULVERT REMOVAL
LENGTH = 45 FOOT

P.I. STA. 5+58.20
(TO BE SET)
N. 594450.51
E. 770805.74

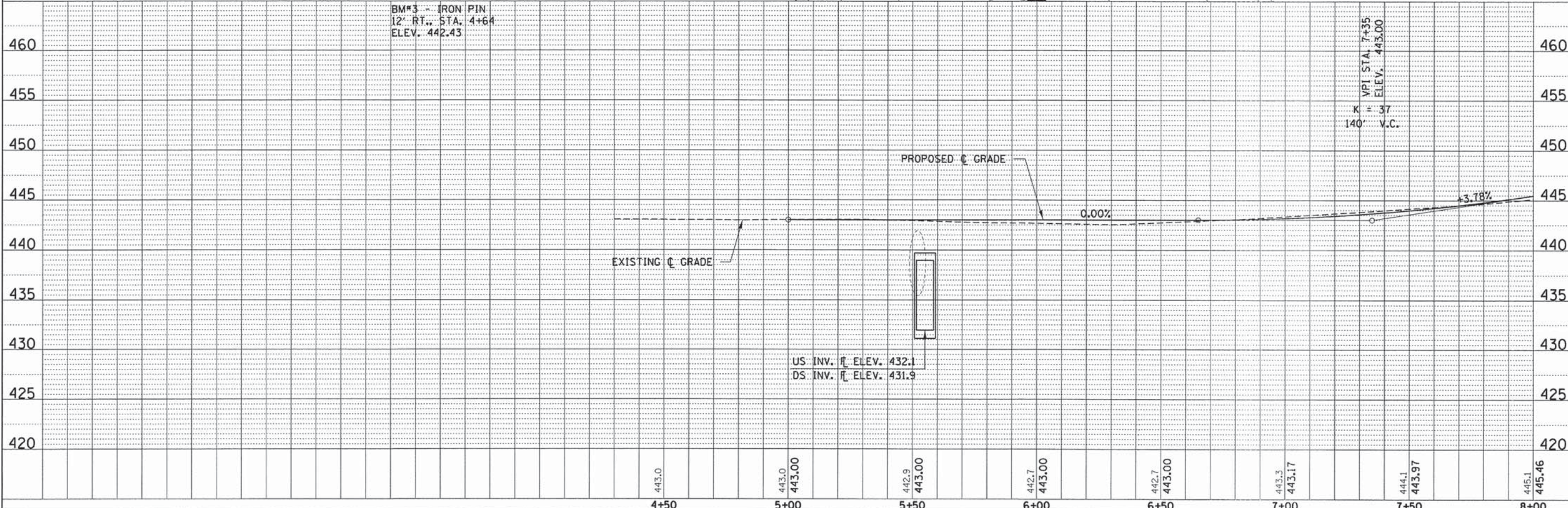
Curve Data
PI Sta. 5+58.61
 $\Delta = 11^\circ 18' 34''$ (RT)
D = 4' 24' 39''
T = 128.61'
R = 1,298.94'
L = 256.39'
E = 6.35'
PC Sta. 4+30.00
PT Sta. 6+86.39
SE = 2.5%
SE TRANSITION
FROM STA. 6+69.29
TO STA. 7+37.69

IMPROVEMENT BEGINS
STATION 5+00

MARION E. OELZE TRUST
NW 1/4, NW 1/4, SEC 2, T. 3 S., R. 1 E., 3RD P.M.

BM#3 - IRON PIN
12" RT. STA. 4+64
ELEV. 442.43

VPI STA. 7+35
ELEV. 443.00
K = 37
140' V.C.

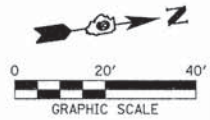


PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NOTE BOOK NO.	
	DATE	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NOTE BOOK NO.	
	DATE	

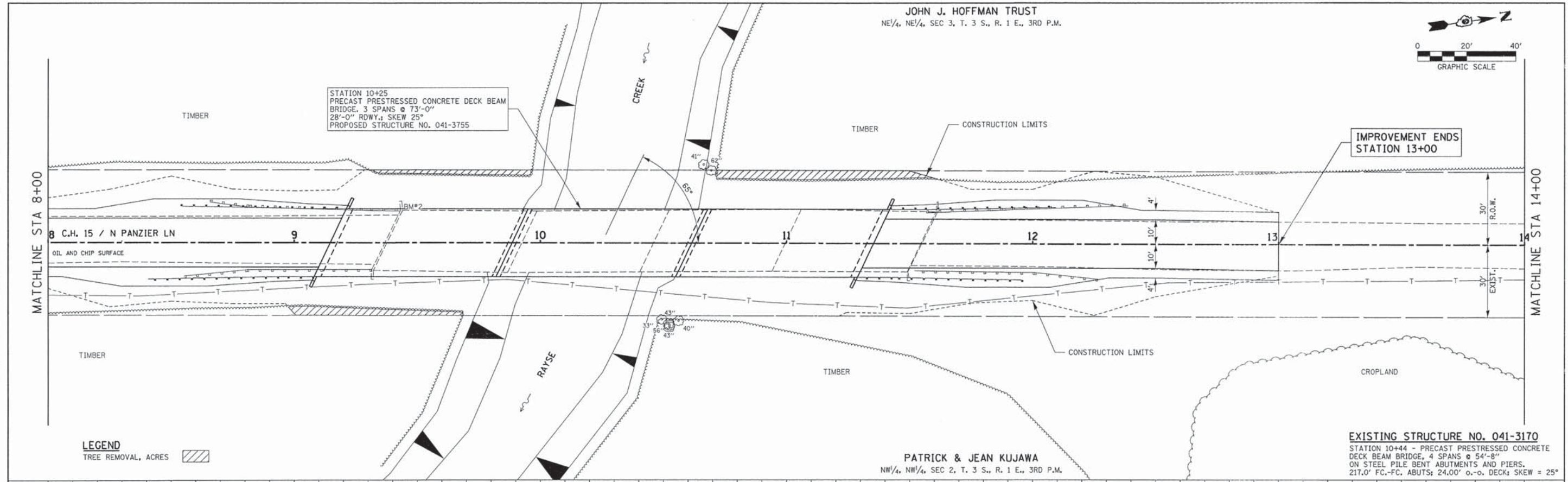
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HAMPTON, LENZINI AND RENWICK, INC. 3030 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62763 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP 184.000658	PLOT SCALE =	DRAWN - L.G.C.	REVISED -			15	13-00209-00-BR	JEFFERSON	38	5
PLOT DATE = 4/3/2014	CHECKED - J.W.F.	DATE - 04/03/14	REVISED -			PANZIER LANE		CONTRACT NO. 99524		
						ILLINOIS FED. AID PROJECT BROS-00B1076				

JOHN J. HOFFMAN TRUST
NE 1/4, NE 1/4, SEC 3, T. 3 S., R. 1 E., 3RD P.M.



STATION 10+25
PRECAST PRESTRESSED CONCRETE DECK BEAM
BRIDGE, 3 SPANS @ 73'-0"
28'-0" RDWY., SKEW 25°
PROPOSED STRUCTURE NO. 041-3755

IMPROVEMENT ENDS
STATION 13+00



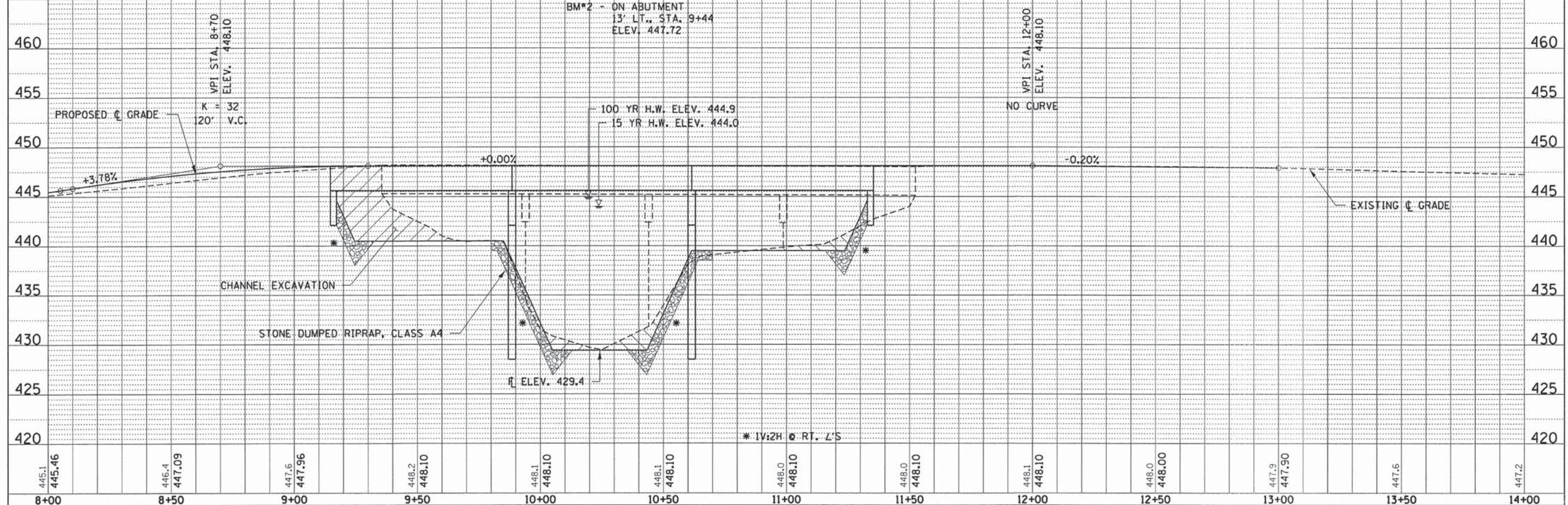
LEGEND
TREE REMOVAL, ACRES

PATRICK & JEAN KUJAWA
NW 1/4, NW 1/4, SEC 2, T. 3 S., R. 1 E., 3RD P.M.

EXISTING STRUCTURE NO. 041-3170
STATION 10+44 - PRECAST PRESTRESSED CONCRETE
DECK BEAM BRIDGE, 4 SPANS @ 54'-8"
ON STEEL PILE BENT ABUTMENTS AND PIERS.
217.0' FC-FC, ABUTS: 24.00' o-o, DECK: SKEW = 25°

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	



445.1 445.46	446.4 447.09	447.6 447.96	448.2 448.10	448.1 448.10	448.1 448.10	448.0 448.10	448.0 448.10	448.1 448.10	448.0 448.00	447.9 447.90	447.6	447.2
8+00	8+50	9+00	9+50	10+00	10+50	11+00	11+50	12+00	12+50	13+00	13+50	14+00

FILE NAME = 130209-sht-p&p.dgn
USER NAME =
DESIGNED - L.A.P.
DRAWN - L.G.C.
CHECKED - J.W.F.
DATE - 04/03/14

REVISIONS
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

SCALE: 20H:5V
SHEET NO. 2 OF 3 SHEETS
STA. 8+00.00 TO STA. 14+00.00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	13-00209-00-BR	JEFFERSON	38	6
PANZIER LANE			CONTRACT NO. 99524	
ILLINOIS FED. AID PROJECT BR05-00810761				

JOHN J. HOFFMAN TRUST
NE 1/4, NE 1/4, SEC 3, T. 3 S., R. 1 E., 3RD P.M.

Curve Data
PI Sta. 15+74.21
 $\Delta = 1^\circ 32' 10''$ (LT)
 $D = 0^\circ 52' 13''$
 $T = 88.27'$
 $R = 6,584.58'$
 $L = 176.53'$
 $E = 0.59'$
PC Sta. 14+85.94
PT Sta. 16+62.47
NO S.E.

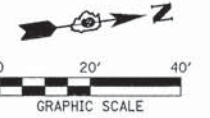
P.I. STA. 15+74.21
(TO BE SET)
N. 595456.62
E. 770950.17

N.E. COR. SEC. 3
T. 3 S., R. 1 E., 3RD P.M.
(IRON PIN FOUND)
N. 595653.58
E. 770884.24

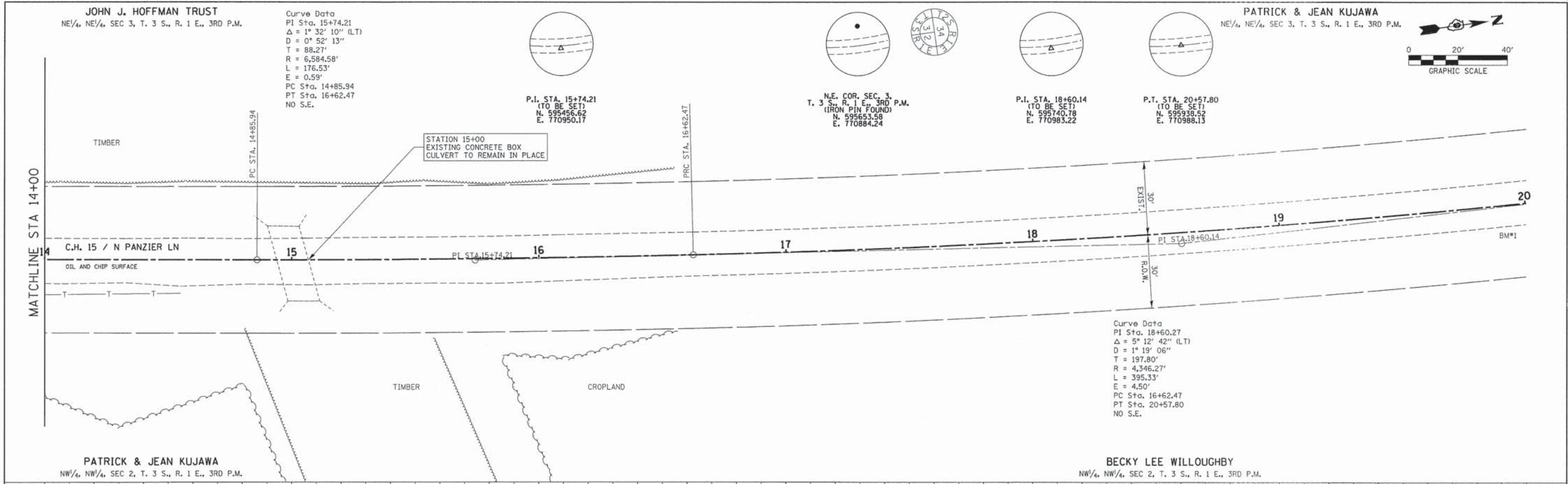
P.I. STA. 18+60.14
(TO BE SET)
N. 595740.78
E. 770983.22

P.T. STA. 20+57.80
(TO BE SET)
N. 595938.52
E. 770988.13

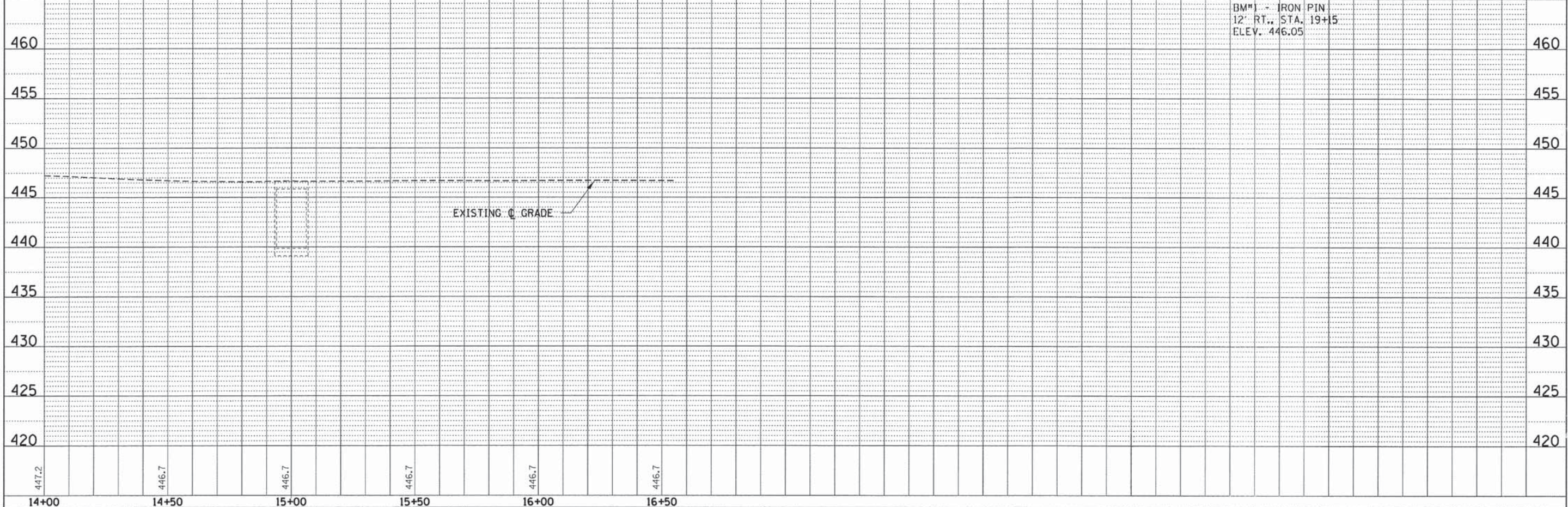
PATRICK & JEAN KUJAWA
NE 1/4, NE 1/4, SEC 3, T. 3 S., R. 1 E., 3RD P.M.



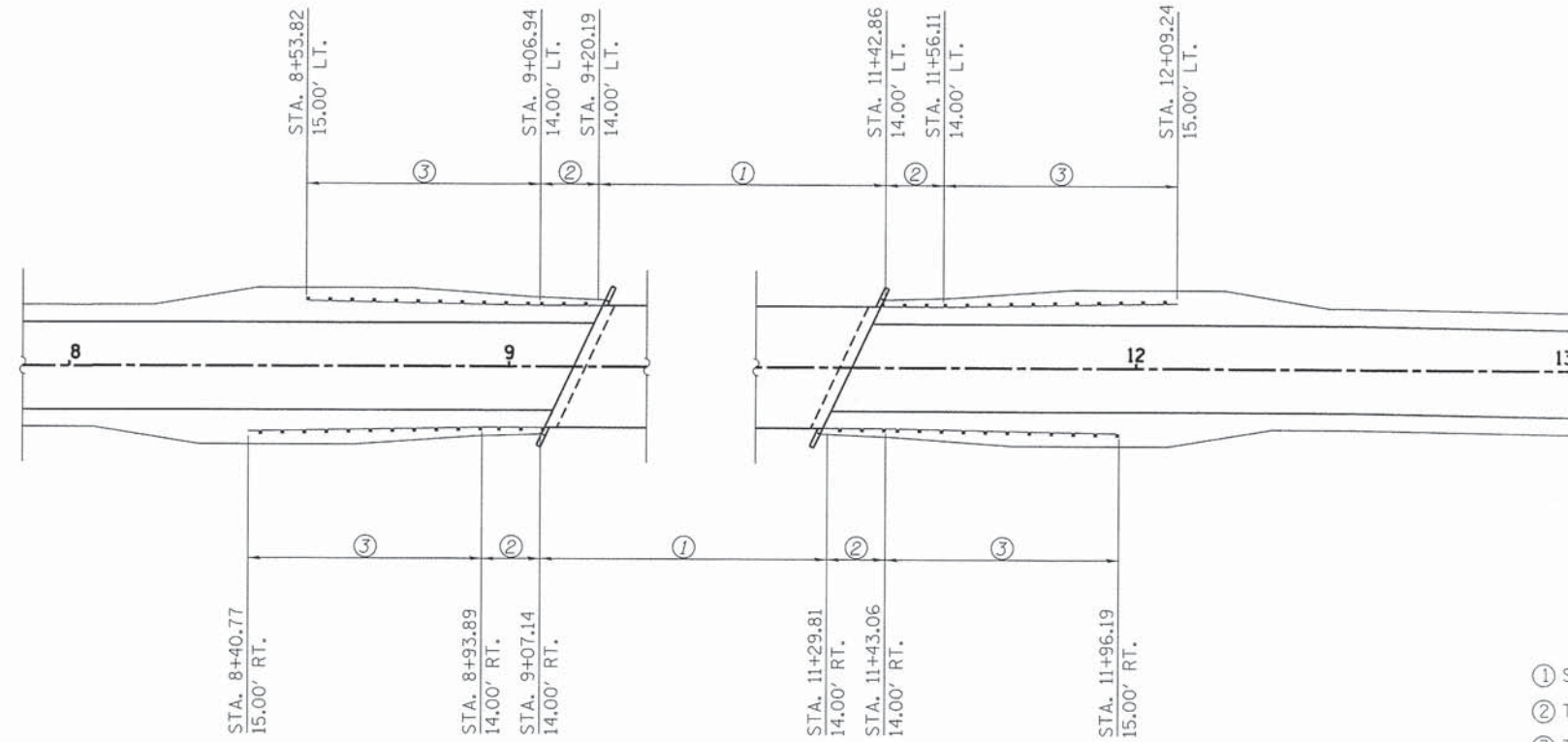
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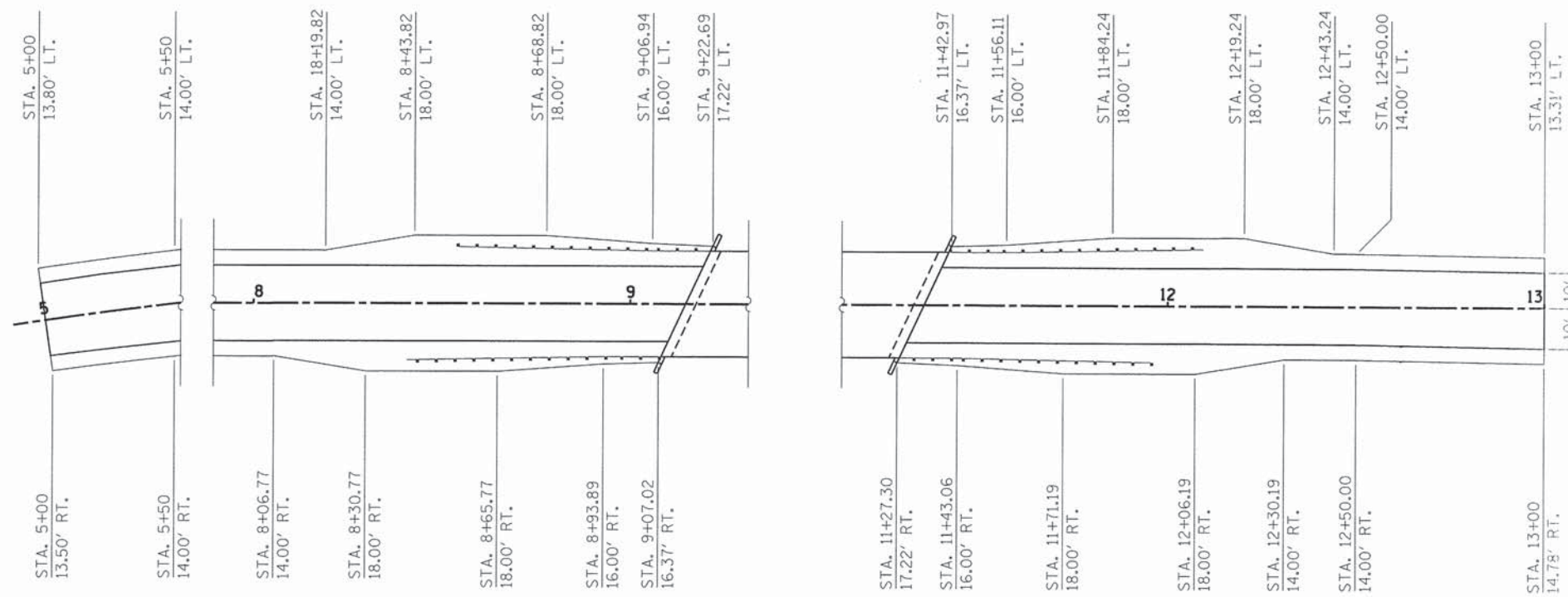
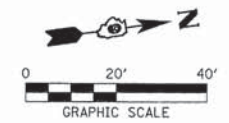


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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -			15	13-00209-00-BR	JEFFERSON	38	7
3588 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - J.W.F.	REVISED -			PANZIER LANE	CONTRACT NO. 99524			
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 4/3/2014	DATE - 04/03/14	REVISED -			ILLINOIS FED. AID PROJECT BR05-0081(076)				



GUARDRAIL LAYOUT

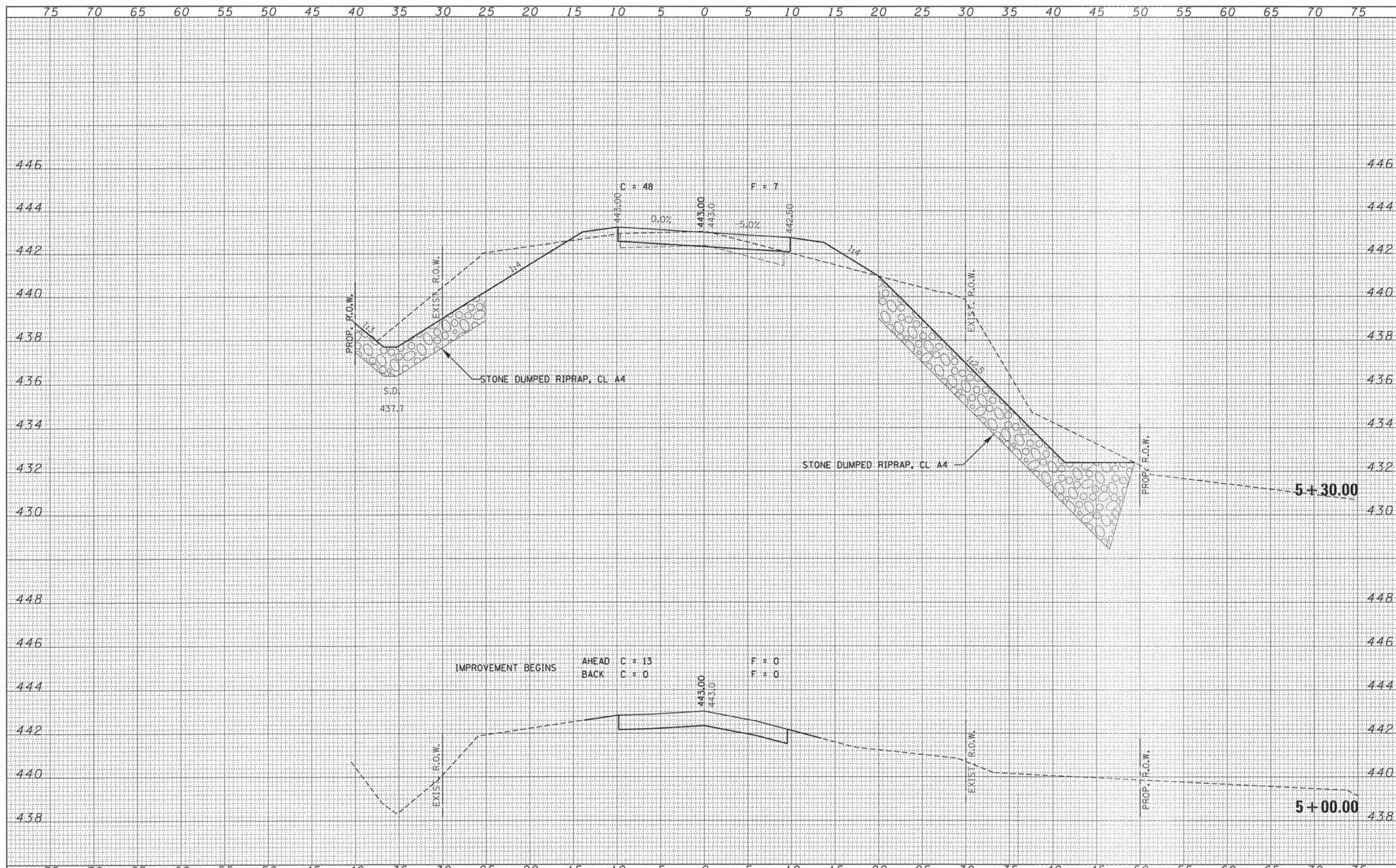
- ① STEEL RAILING, TYPE S-1
- ② TBT TY 5A
- ③ TBT TY 1 SPL TAN



SHOULDER LAYOUT

NOTE:
CONSTRUCT VERTICAL TRANSITION
FOR GUARDRAIL HEIGHT FROM TBT 5A
TO TBT T1 SPL TAN IN 25 FT.

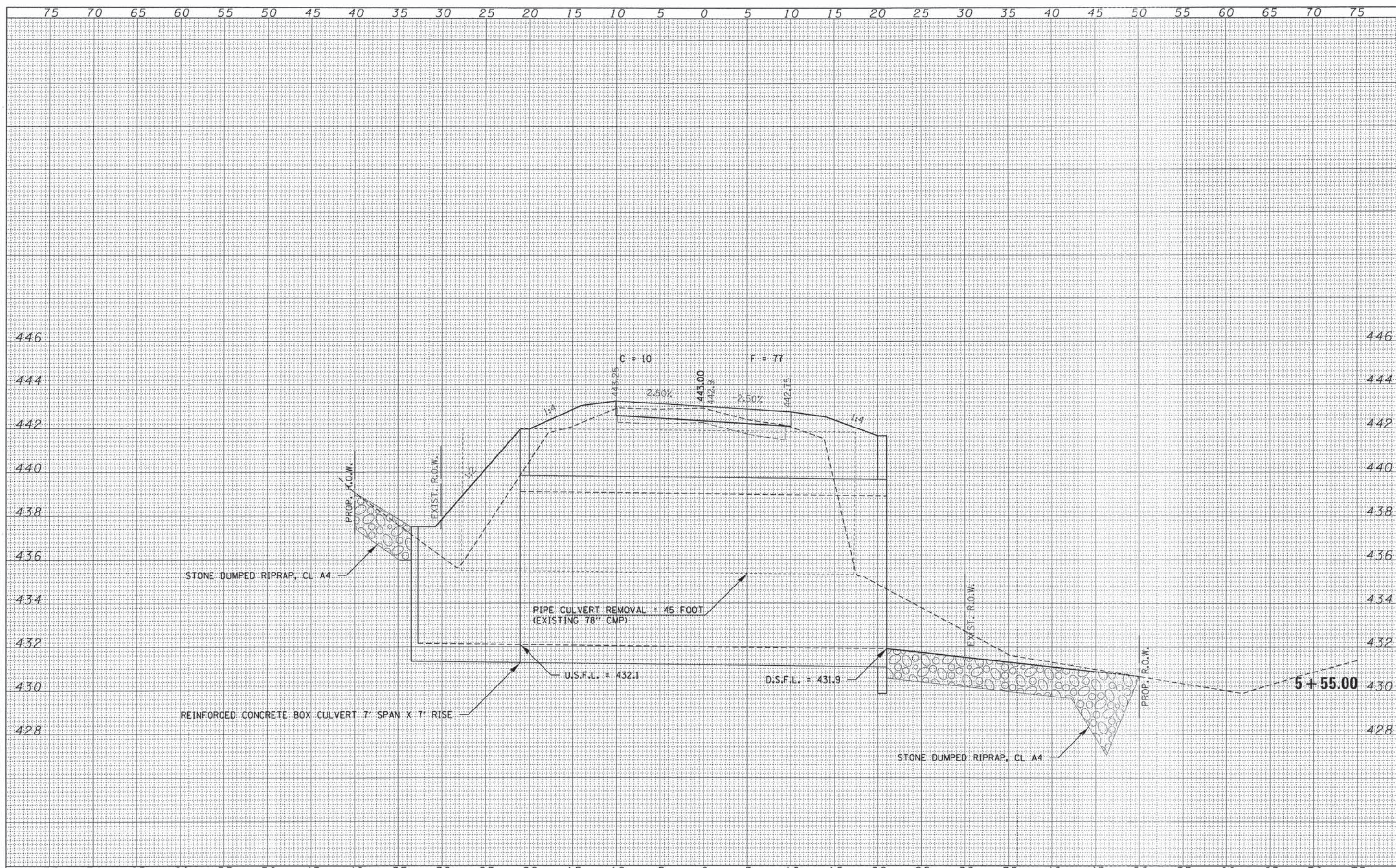
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HLR HAMPTON, LENZINI AND RENWICK, INC. 5045 STEVENSON DRIVE, SUITE 201 BROOKFIELD, ILLINOIS 60513	PLOT SCALE =	DRAWN - R.D.H.	REVISED -		15	13-00209-00-BR	JEFFERSON	38	8		
ILLINOIS PROFESSIONAL DESIGN FIRM L6 / PE / SE CORP. 184-000969	PLOT DATE = 4/3/2014	CHECKED - S.W.M.	REVISED -		SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.		PANZIER LANE	CONTRACT NO. 99524			
		DATE - 04/03/14	REVISED -		[ILLINOIS] FED. AID PROJECT BR05-00810761						



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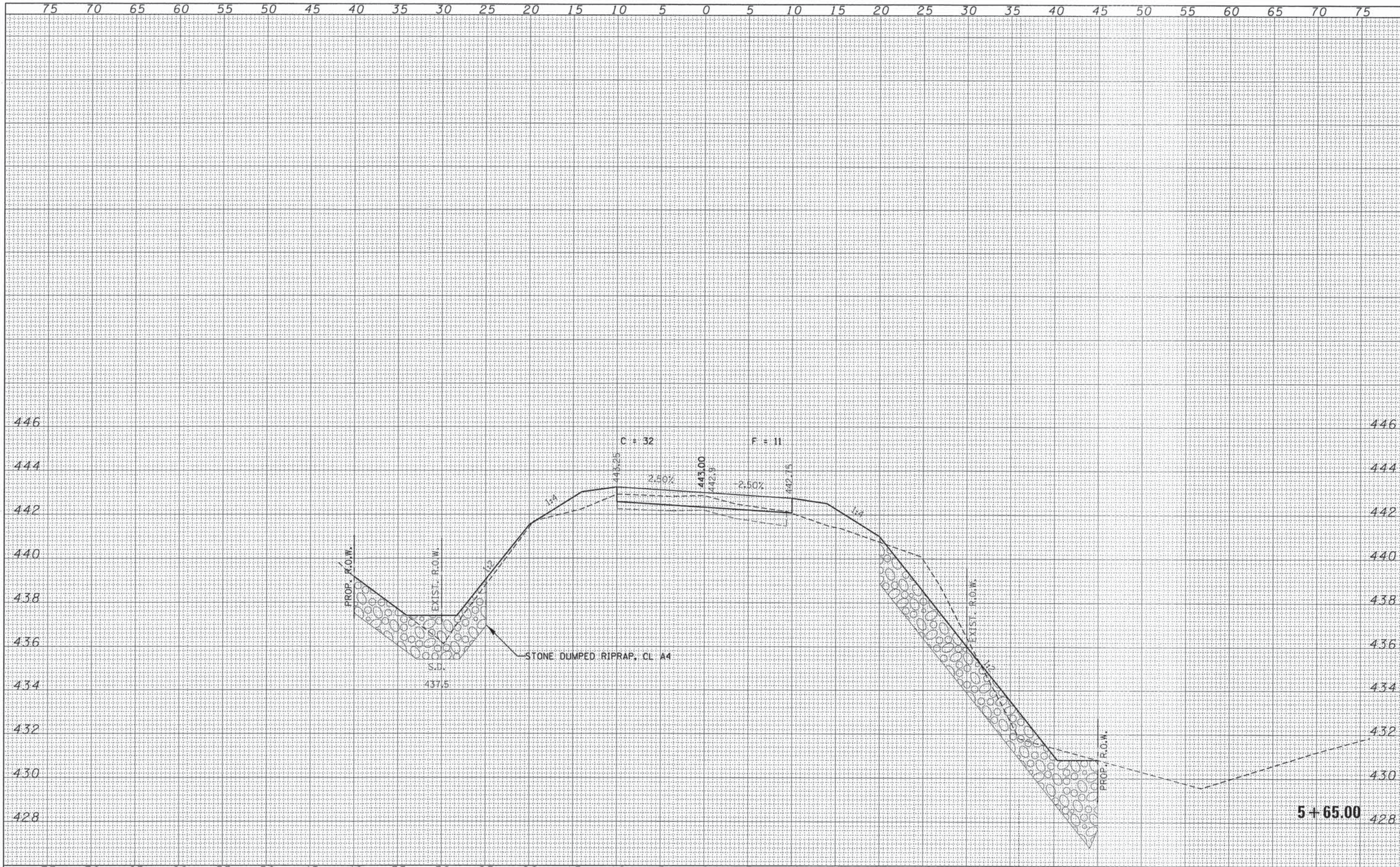
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -		15	13-00209-00-BR	JEFFERSON	38	9		
3005 EVERGREEN DRIVE, SUITE 301 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		PANZIER LANE		CONTRACT NO. 99524				
ILR ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184-000093	PLOT DATE = 4/3/2014	DATE - 04/03/14	REVISED -		SCALE: 5H:2V		SHEET NO. 1 OF 18 SHEETS		STA. 5+00.00 TO STA. 5+25.00		
								ILLINOIS FED. AID PROJECT BROS-00810761			



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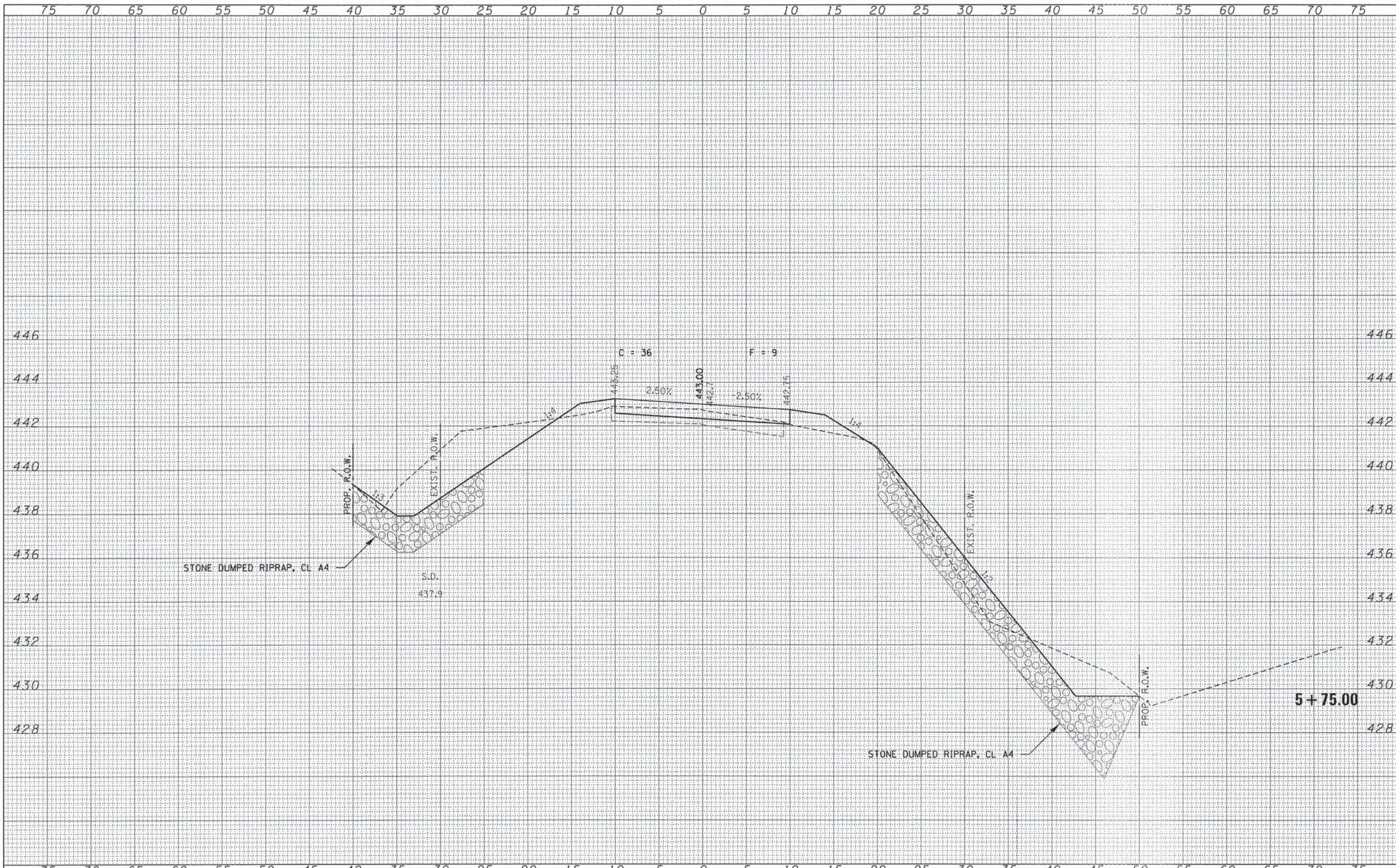
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HAMPTON, LENZINI AND RENWICK, INC. 3065 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		15	13-00209-00-BR	JEFFERSON	38	10		
ILLINOIS PROFESSIONAL DESIGN FIRM L5 / P5 / SE CORP. 184-00099	PLOT DATE = 4/3/2014	CHECKED - S.W.M.	REVISED -		PANZIER LANE		CONTRACT NO. 99524		(ILLINOIS) FED. AID PROJECT BR05-0081076		
		DATE - 04/03/14	REVISED -		SCALE: 5H:2V	SHEET NO. 2 OF 18 SHEETS	STA. 5+52.00	TO STA. 5+52.00			



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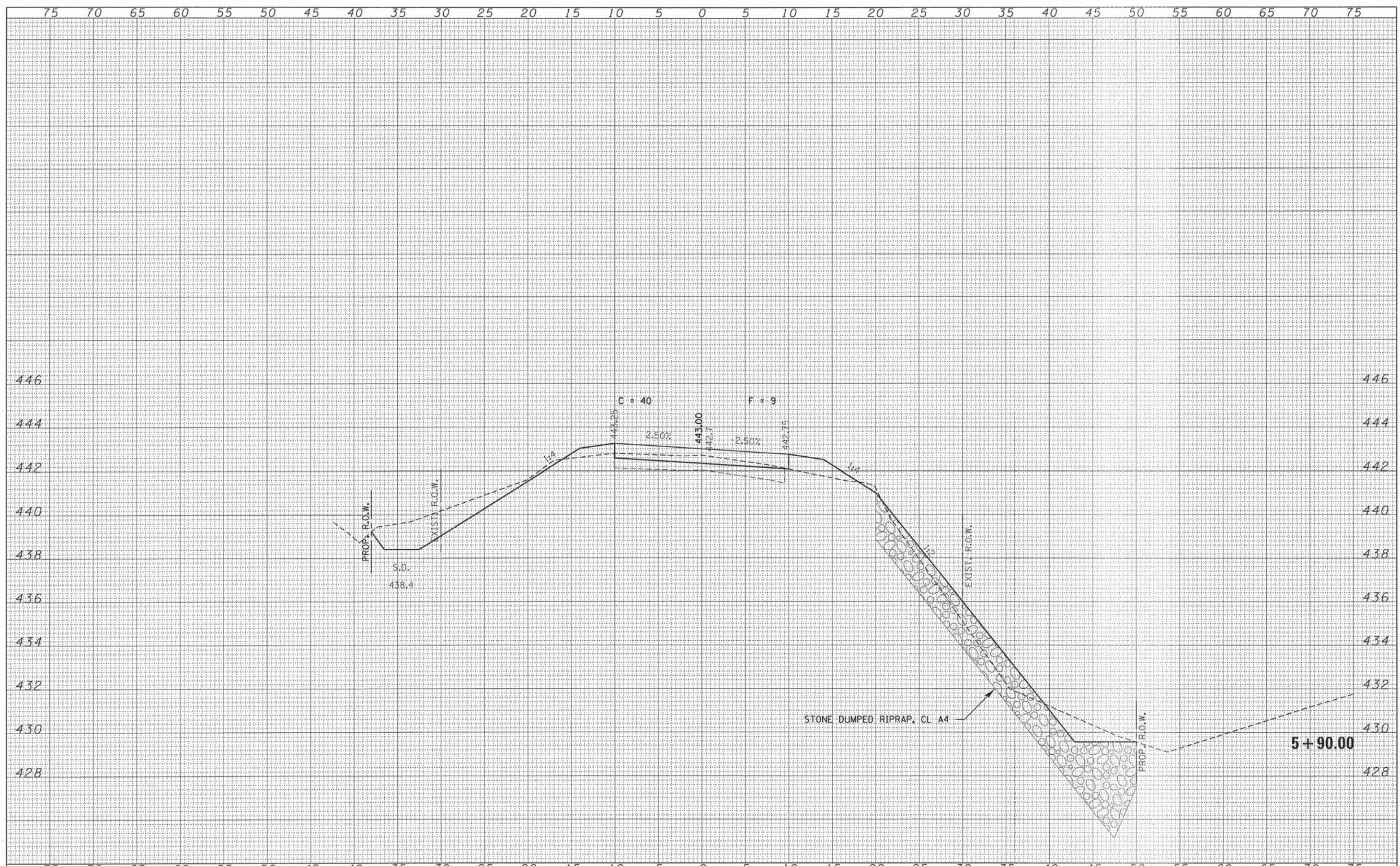
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HAMPSTON, LENZINI AND RENWICK, INC. 208 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761 ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184.000939		DRAWN - L.G.C.	REVISED -		
		CHECKED - S.W.M.	REVISED -		
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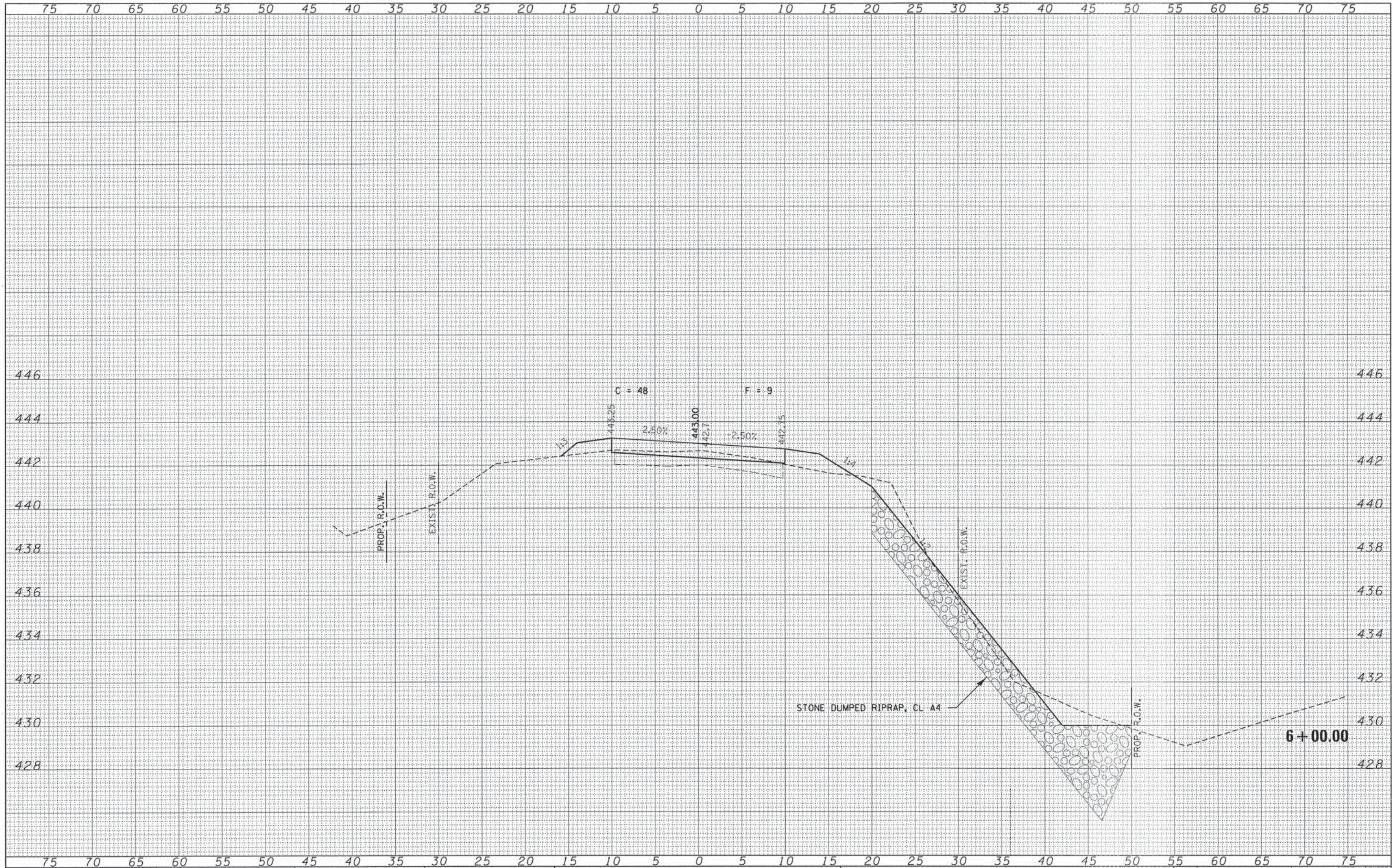
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HAMPTON, LENZINI AND RENWICK, INC. 3005 BREYER DRIVE SUITE 101 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000000	PLOT SCALE =	DRAWN - L.G.C.	REVISED -			15	13-00209-00-BR	JEFFERSON	38	12		
PLOT DATE = 4/3/2014	DATE = 04/03/14	CHECKED - S.W.M.	REVISED -	SCALE: 5H:2V	SHEET NO. 4 OF 18 SHEETS	STA. 5+75.00	TO STA. 5+75.00	CONTRACT NO. 99524		ILLINOIS FED. AID PROJECT BROS-00810761		



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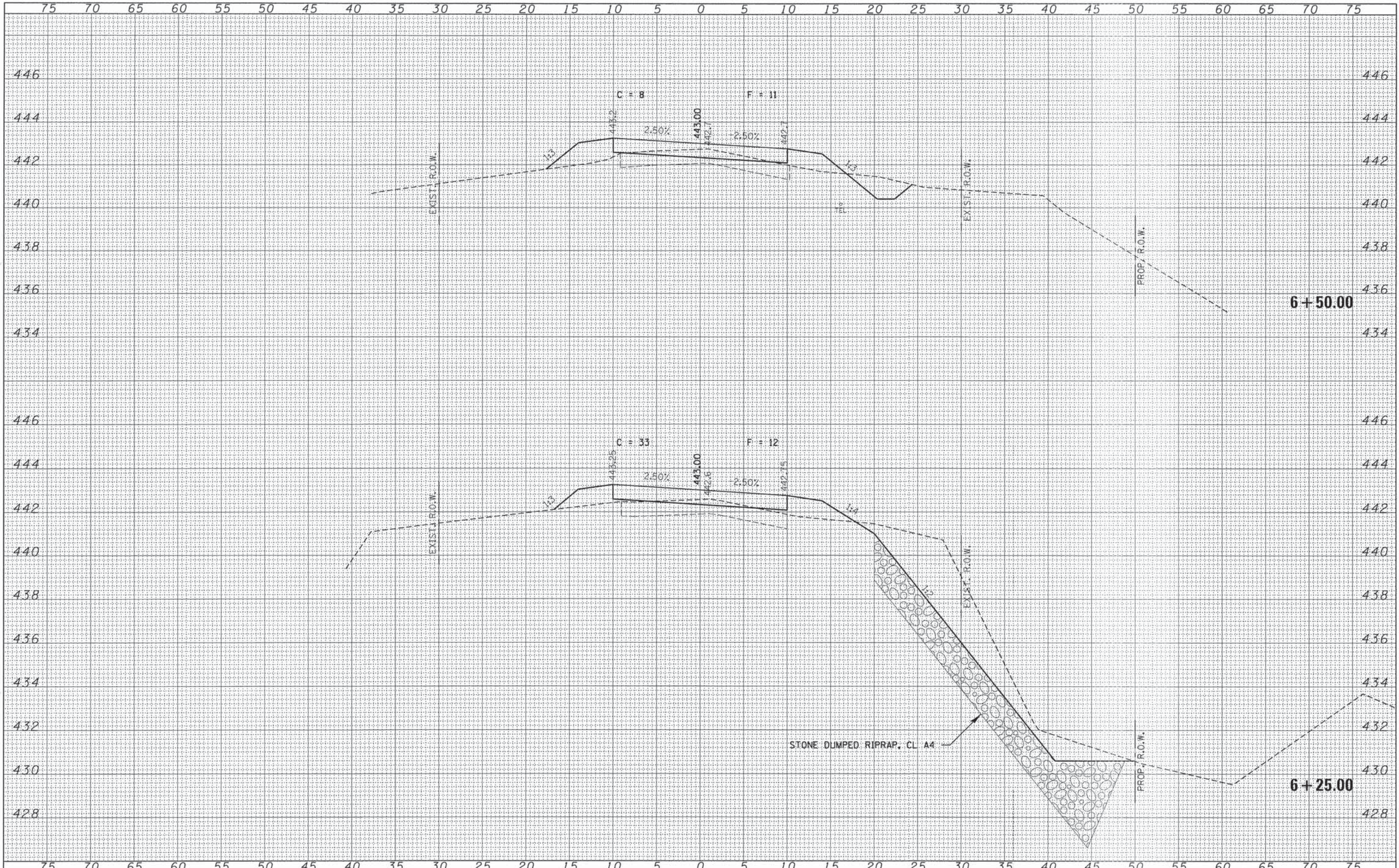
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HAMPTON, LENZINI AND RENWICK, INC. 3083 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62709	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HLR ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-00089	PLOT DATE = 4/3/2014	CHECKED - S.W.M.	REVISED -		15	13-00209-00-BR	JEFFERSON	38	13
		DATE - 04/03/14	REVISED -		PANZIER LANE		CONTRACT NO. 99524		(ILLINOIS) FED. AID PROJECT BROS-081076)
					SCALE: 5h:2V	SHEET NO. 5 OF 18 SHEETS	STA. 5+90.00	TO STA. 5+90.00	



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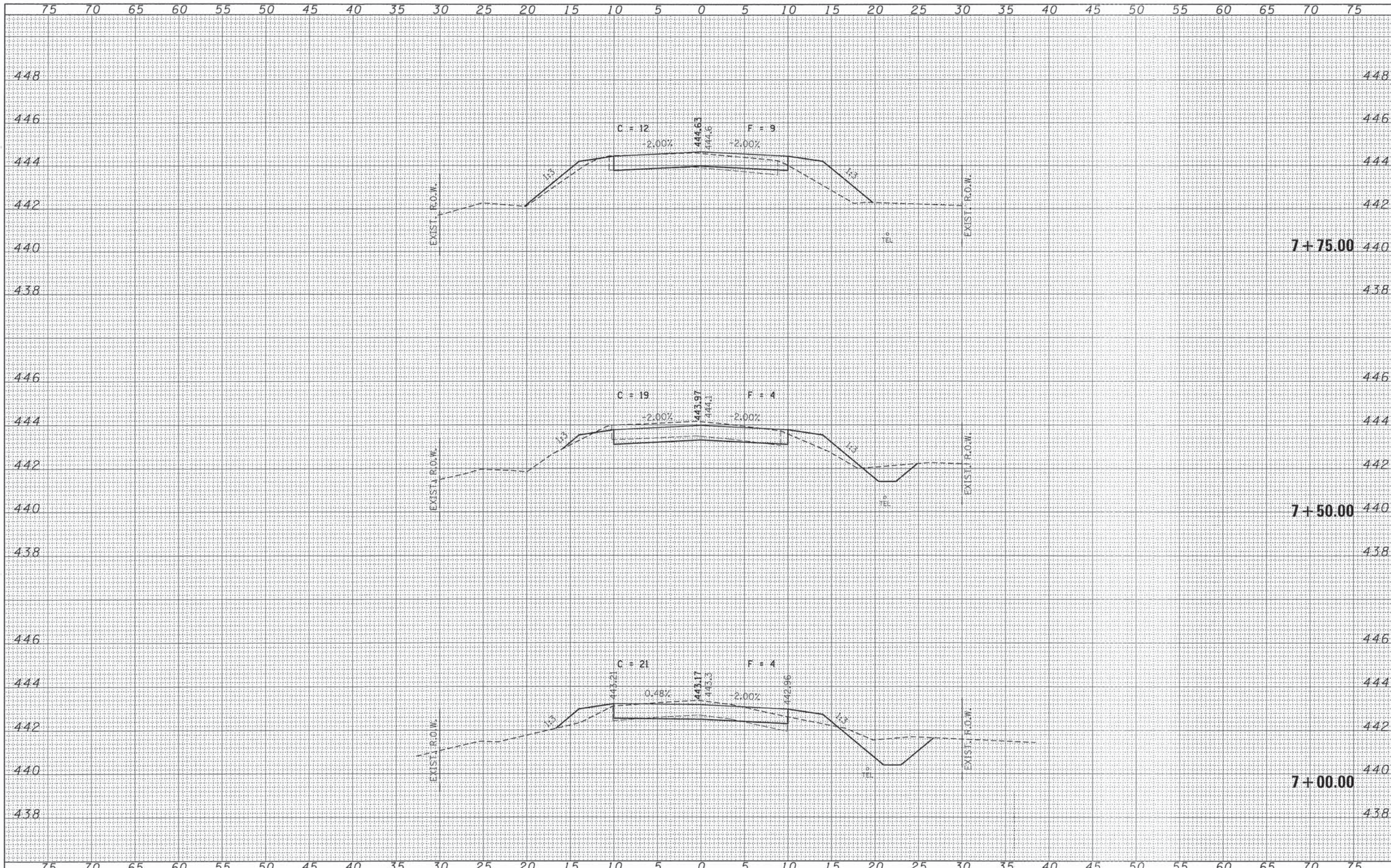
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ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.00893	PLOT DATE = 4/3/2014	CHECKED - S.W.M.	REVISED -		15	13-00209-00-BR	JEFFERSON	38	14
		DATE - 04/03/14	REVISED -		PANZIER LANE		CONTRACT NO. 99524		
				SCALE: 5H:2V	SHEET NO. 6 OF 18 SHEETS		STA. 6+00.00 TO STA. 6+00.00		ILLINOIS FED. AID PROJECT BR05-00810761



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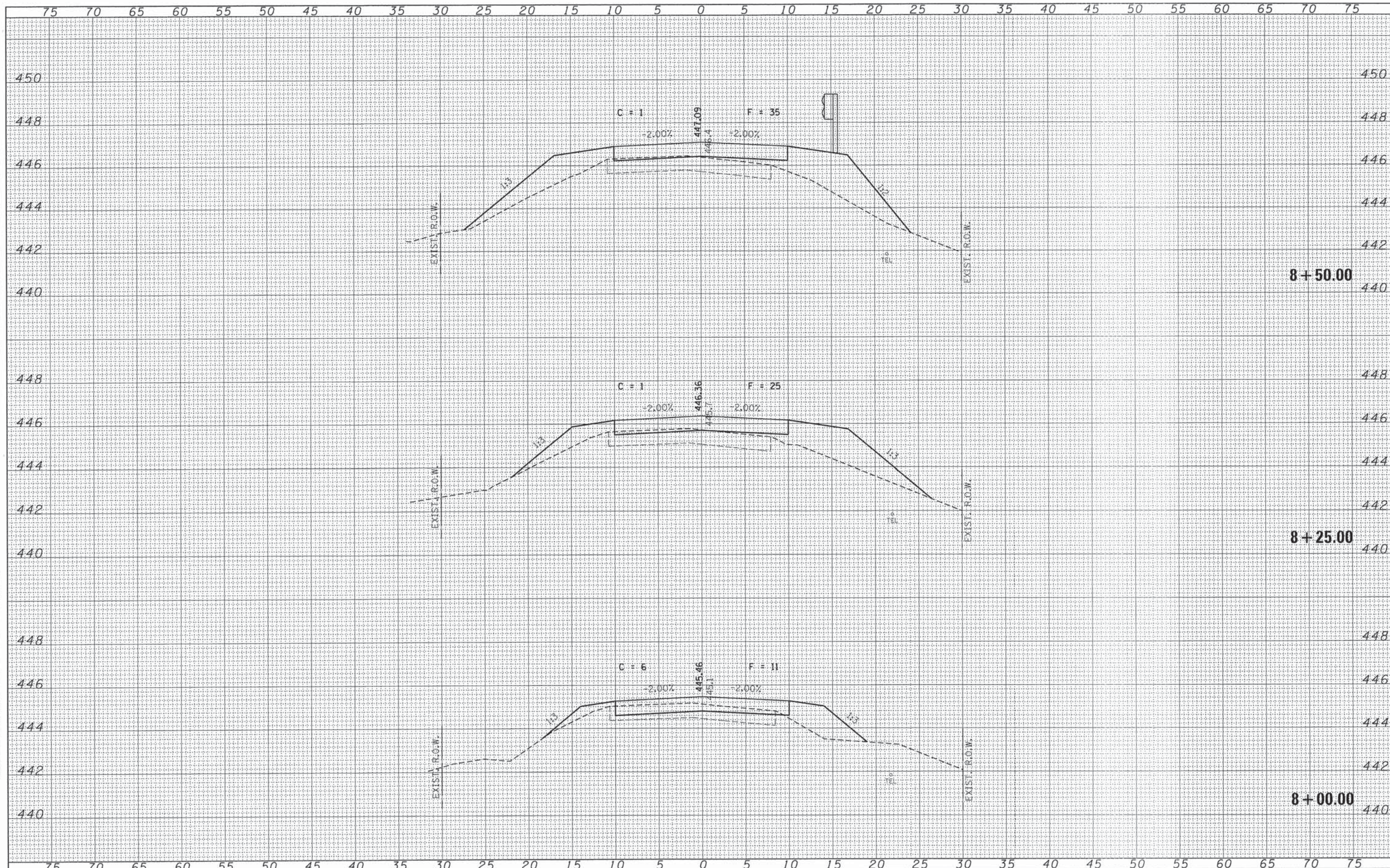
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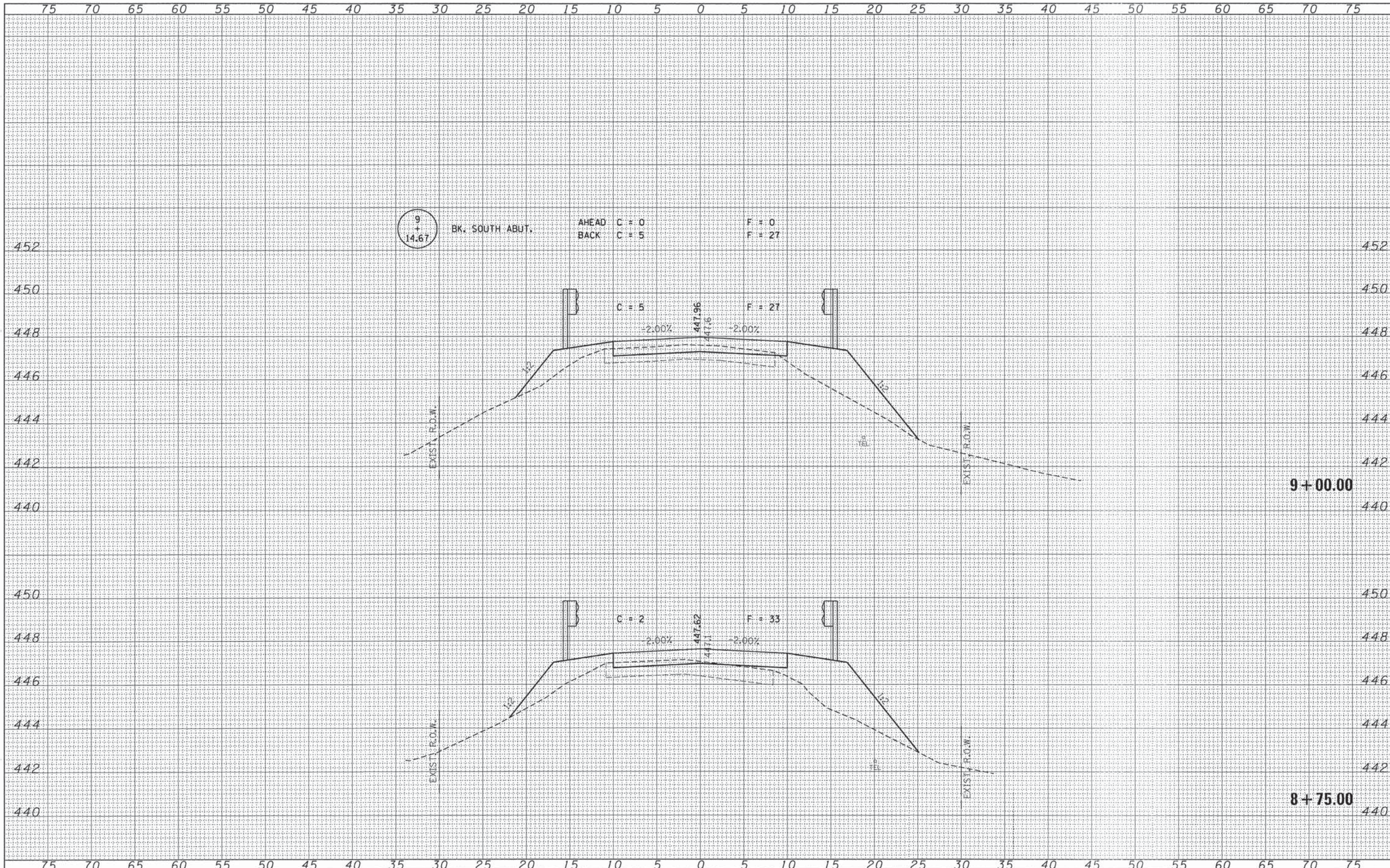
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PLOT DATE = 4/3/2014		CHECKED - S.W.M.	REVISED -		15	13-00209-00-BR	JEFFERSON	38	16
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				SCALE: 5H:2V	SHEET NO. 8 OF 18 SHEETS		STA. 7+00.00 TO STA. 7+75.00		ILLINOIS FED. AID PROJECT BR05-00810761

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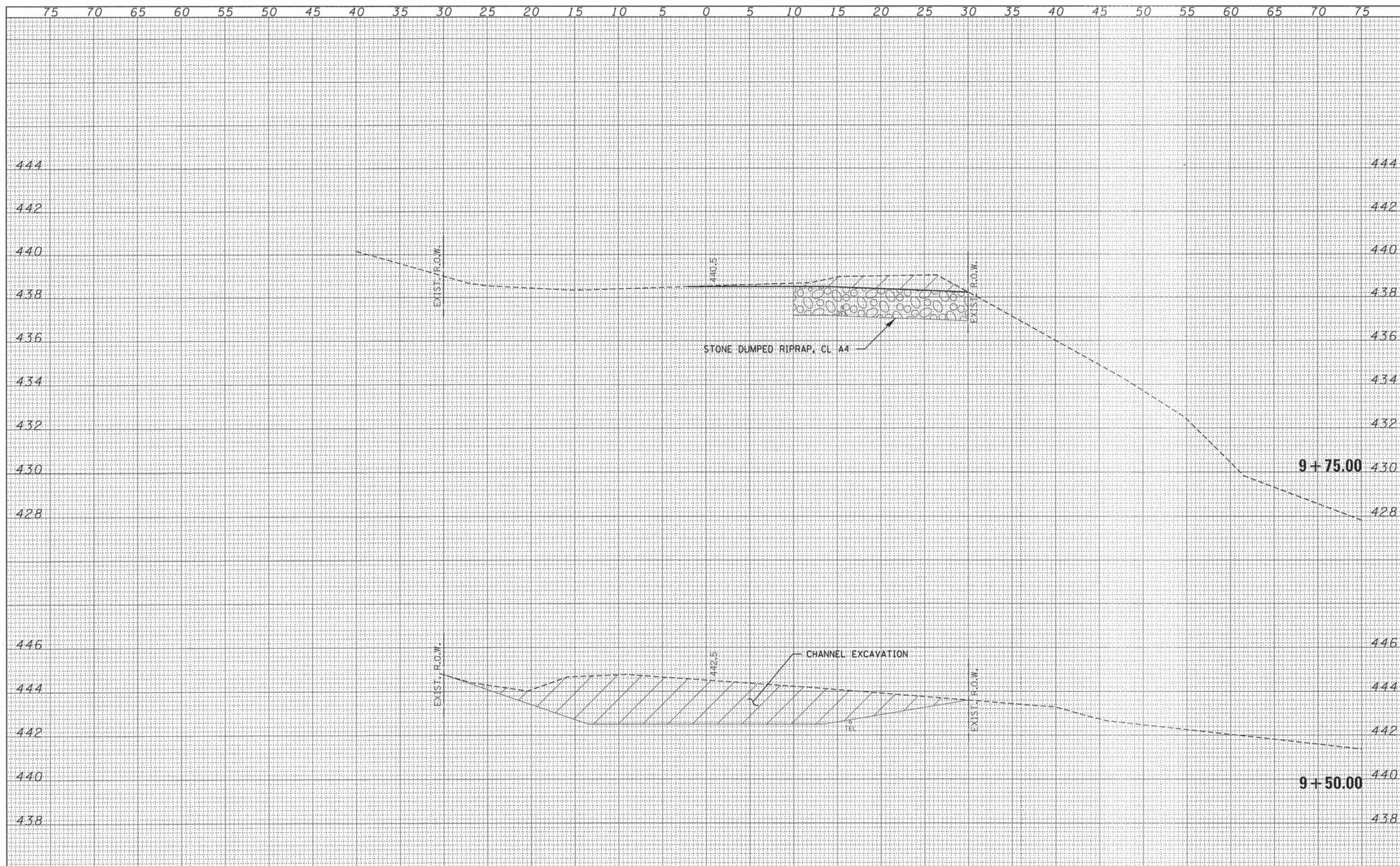
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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184 00089	PLOT DATE = 4/3/2014	CHECKED - S.W.M.	REVISED -		15	13-00209-00-BR	JEFFERSON	38	17
		DATE - 04/03/14	REVISED -		PANZIER LANE		CONTRACT NO. 99524		ILLINOIS FED. AID PROJECT BR05-00810761



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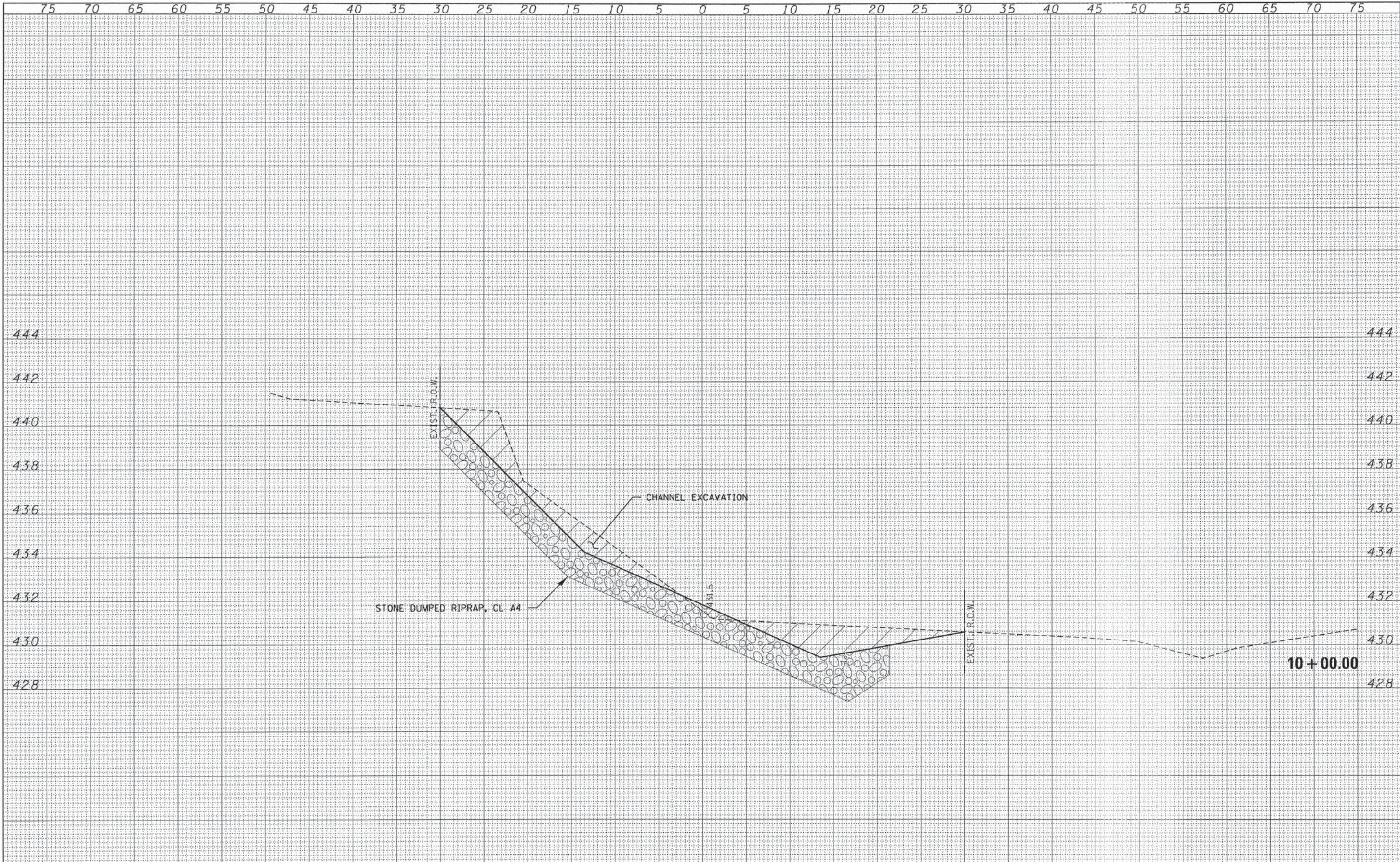
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HAMPTON, LENZINI AND RENWICK, INC. 2015 KILBOURN DRIVE, SUITE 207 SPRINGFIELD, ILLINOIS 62709 ILR ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184-000899	PLOT SCALE =	DRAWN - L.G.C.	REVISED -									15	13-00209-00-BR	JEFFERSON	38	18	
	PLOT DATE = 4/3/2014	CHECKED - S.W.M.	REVISED -	SCALE: 5H:2V				SHEET NO. 10 OF 18 SHEETS				STA. 8+75.00 TO STA. 9+00.00				CONTRACT NO. 99524	
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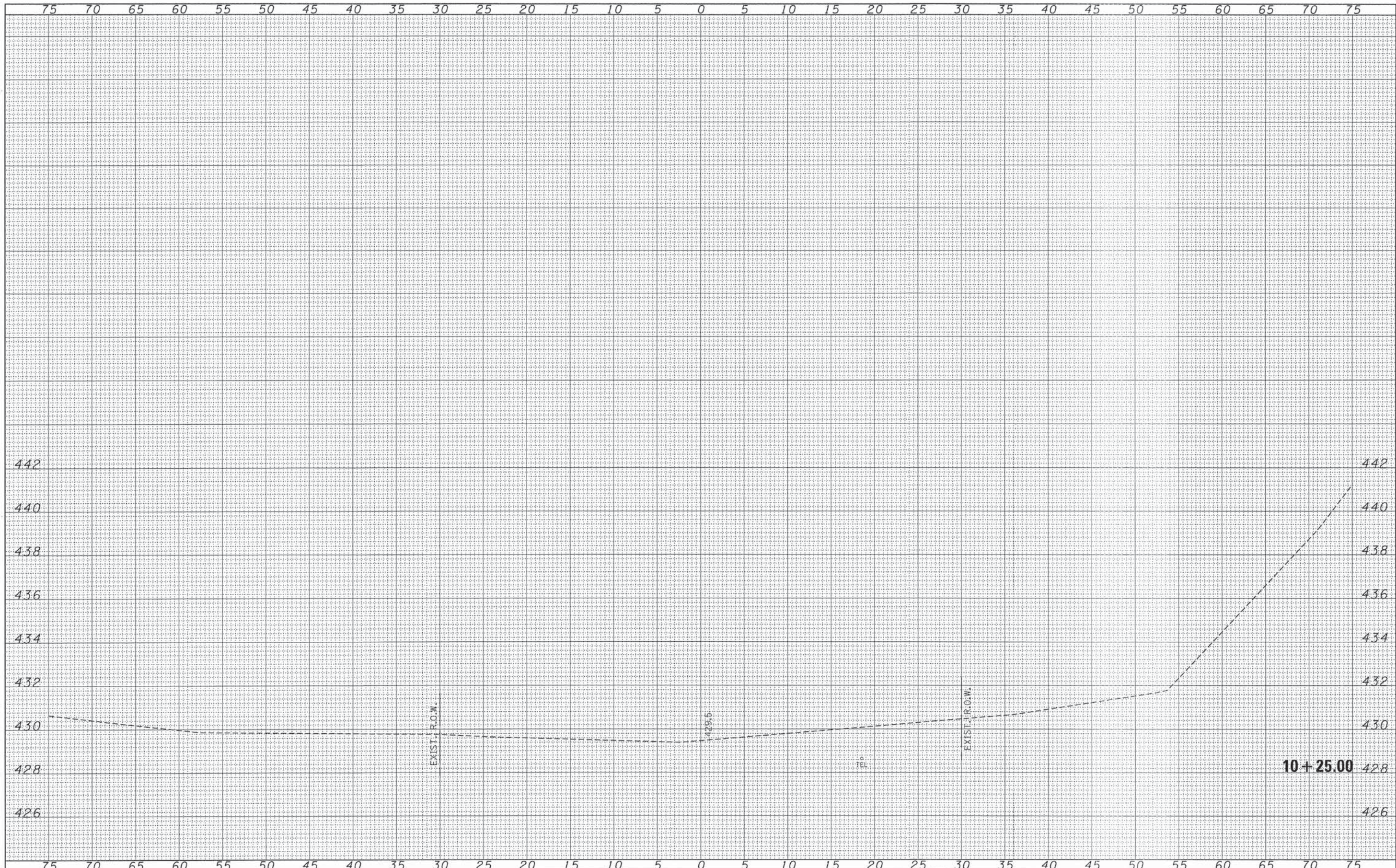
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700 E. EVERSHARD DRIVE, SUITE 307 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		15	13-00209-00-BR	JEFFERSON	38	19
ILR ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184-000989	PLOT DATE = 4/3/2014	DATE - 04/03/14	REVISED -		PANZIER LANE		CONTRACT NO. 99524		
					SCALE: 5H:2V	SHEET NO. 11 OF 18 SHEETS	STA. 9+50.00 TO STA. 9+75.00	ILLINOIS FED. AID PROJECT BROS-00810761	



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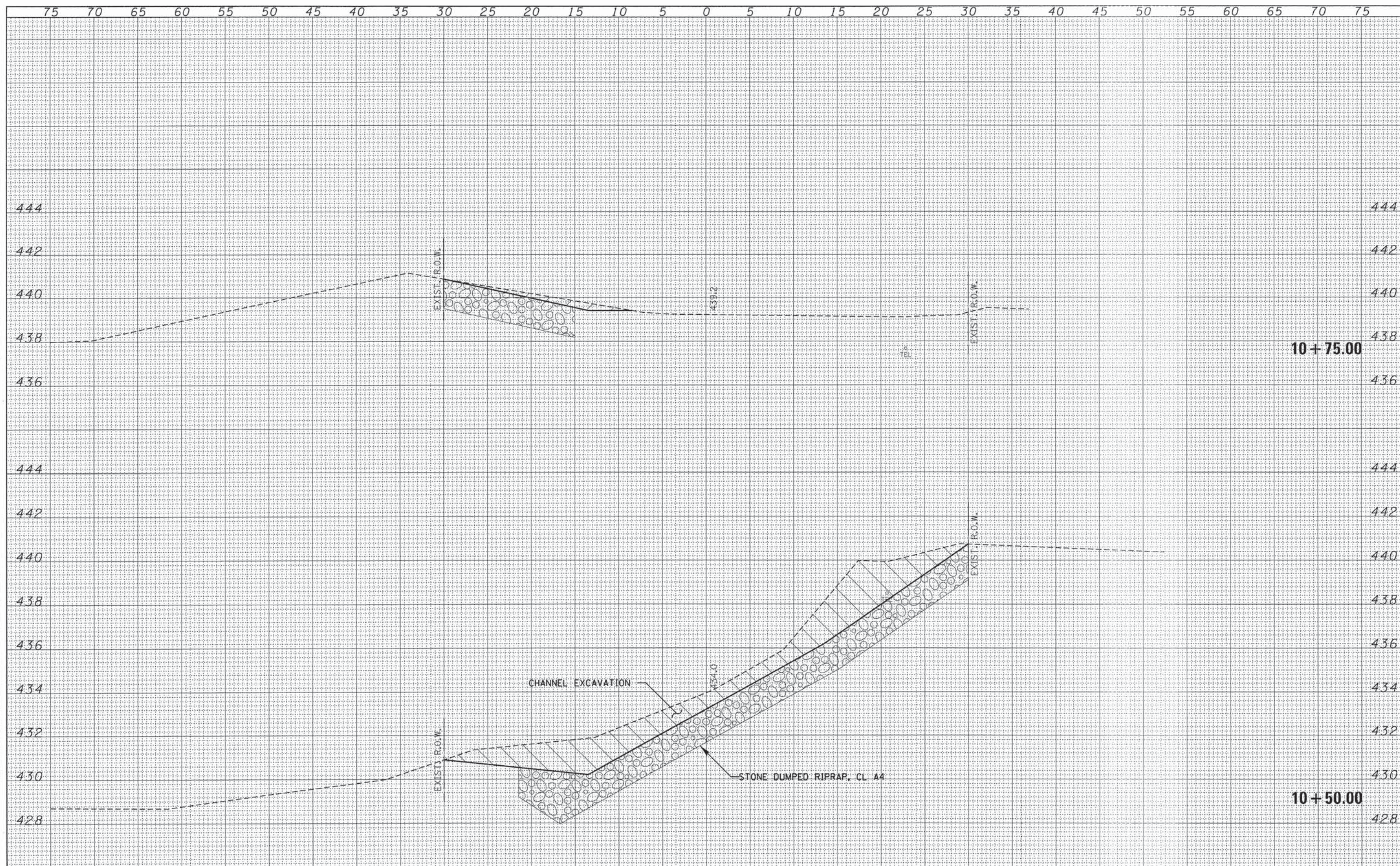
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HAMPTON, LENZINI AND RENWICK, INC. 2001 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - L.G.C.	REVISED -									15	13-00209-00-BR	JEFFERSON	38	20	
ILR ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184-80999	PLOT DATE = 4/3/2014	CHECKED - S.W.M.	REVISED -	SCALE: 5H:2V				SHEET NO. 12 OF 18 SHEETS				STA. 10+00.00 TO STA. 10+00.00				CONTRACT NO. 99524	
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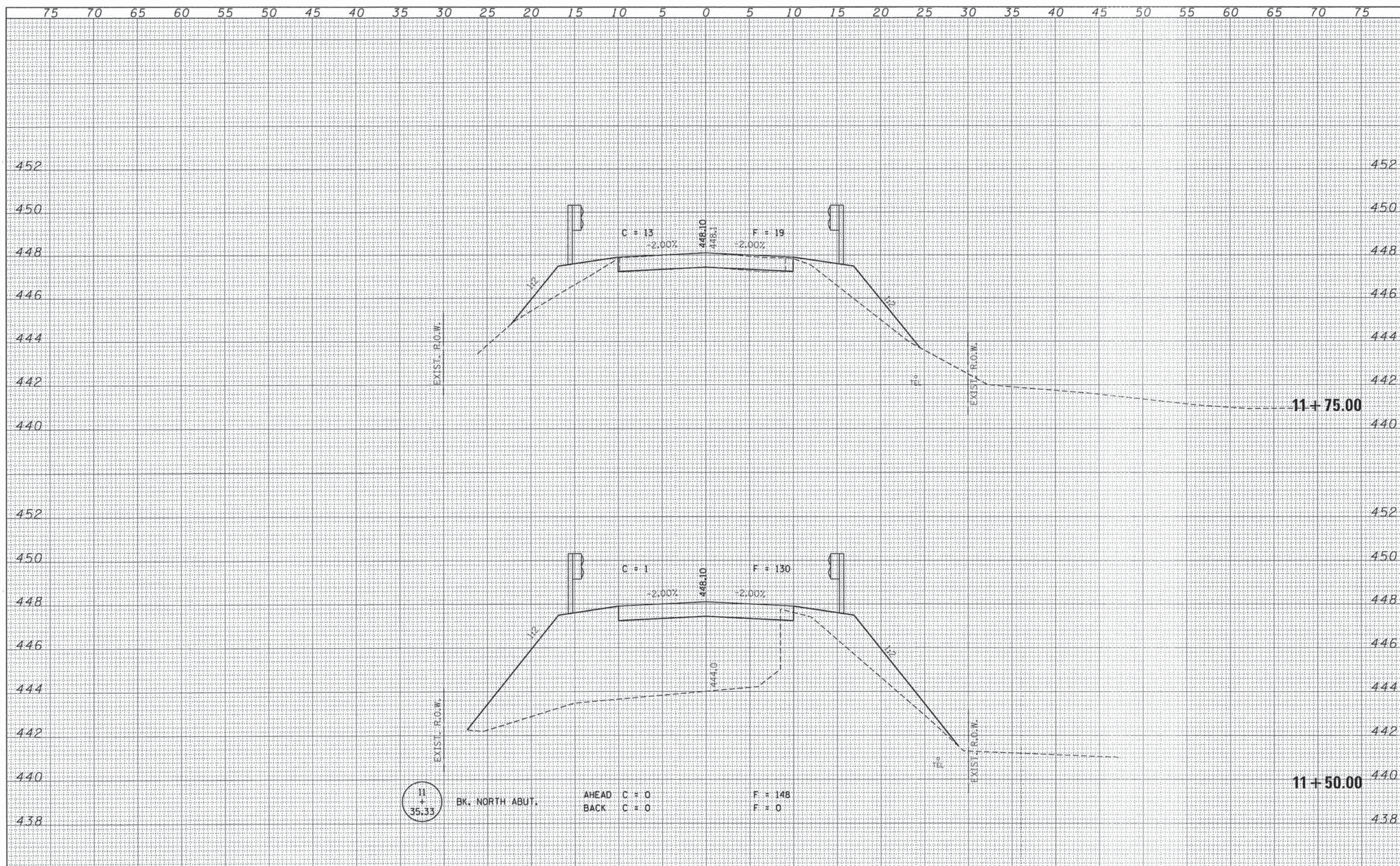
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HAMPTON, LENZINI AND RENWICK, INC. 3060 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62779 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-000869		DRAWN - L.G.C.	REVISED -	STATE OF ILLINOIS JEFFERSON COUNTY HIGHWAY DEPARTMENT				15	13-00209-00-BR	JEFFERSON	38	21
	PLOT SCALE =	CHECKED - S.W.M.	REVISED -	SCALE: 5H:2V				PANZIER LANE		CONTRACT NO. 99524		
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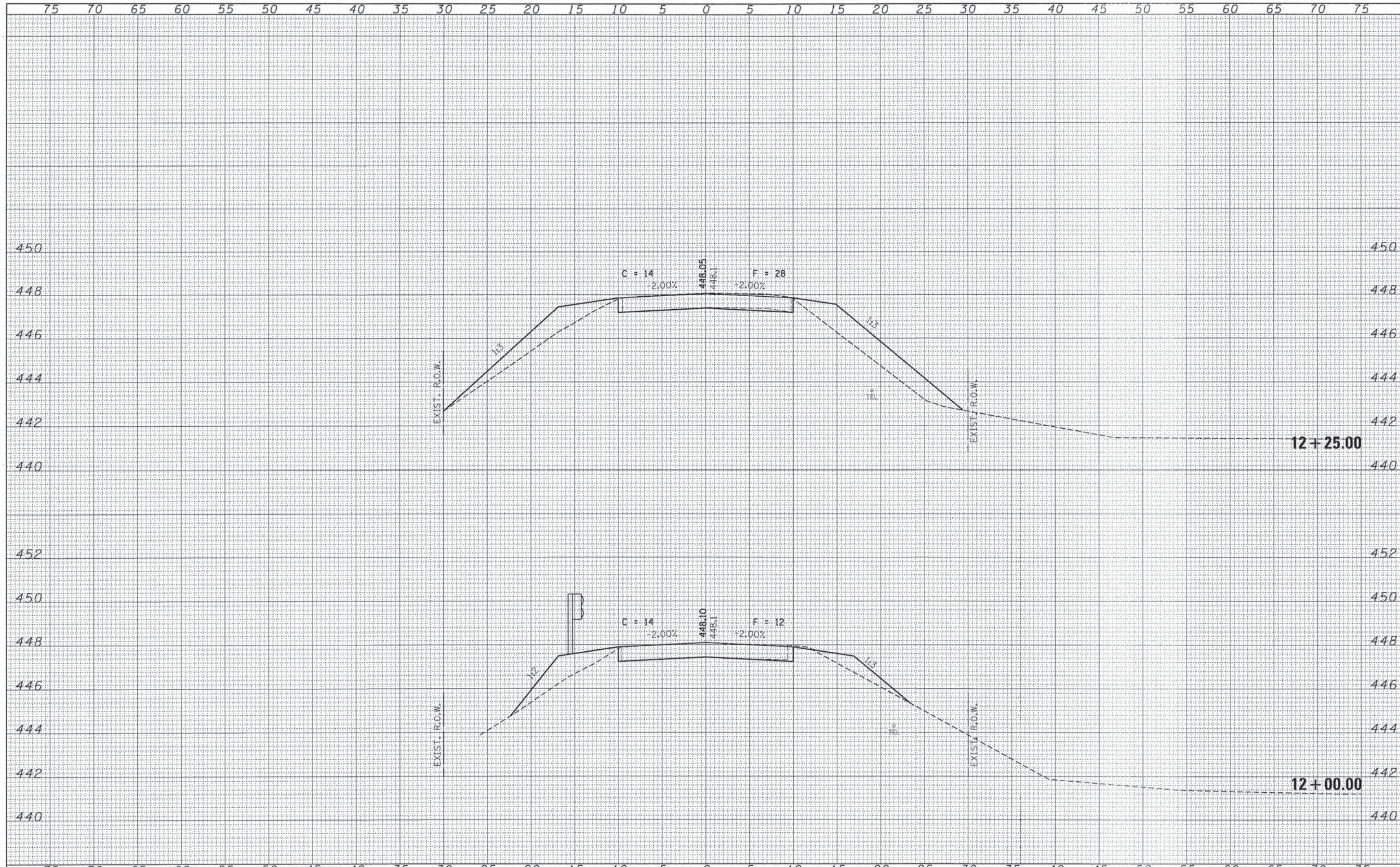
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -		15	13-00209-00-BR	JEFFERSON	38	22		
3005 BREWSTER DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62709	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		PANZIER LANE		CONTRACT NO. 99524				
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-00099	PLOT DATE = 4/3/2014	DATE - 04/03/14	REVISED -		SCALE: 5H:2V		SHEET NO. 14 OF 18 SHEETS		STA. 10+50.00 TO STA. 10+75.00		
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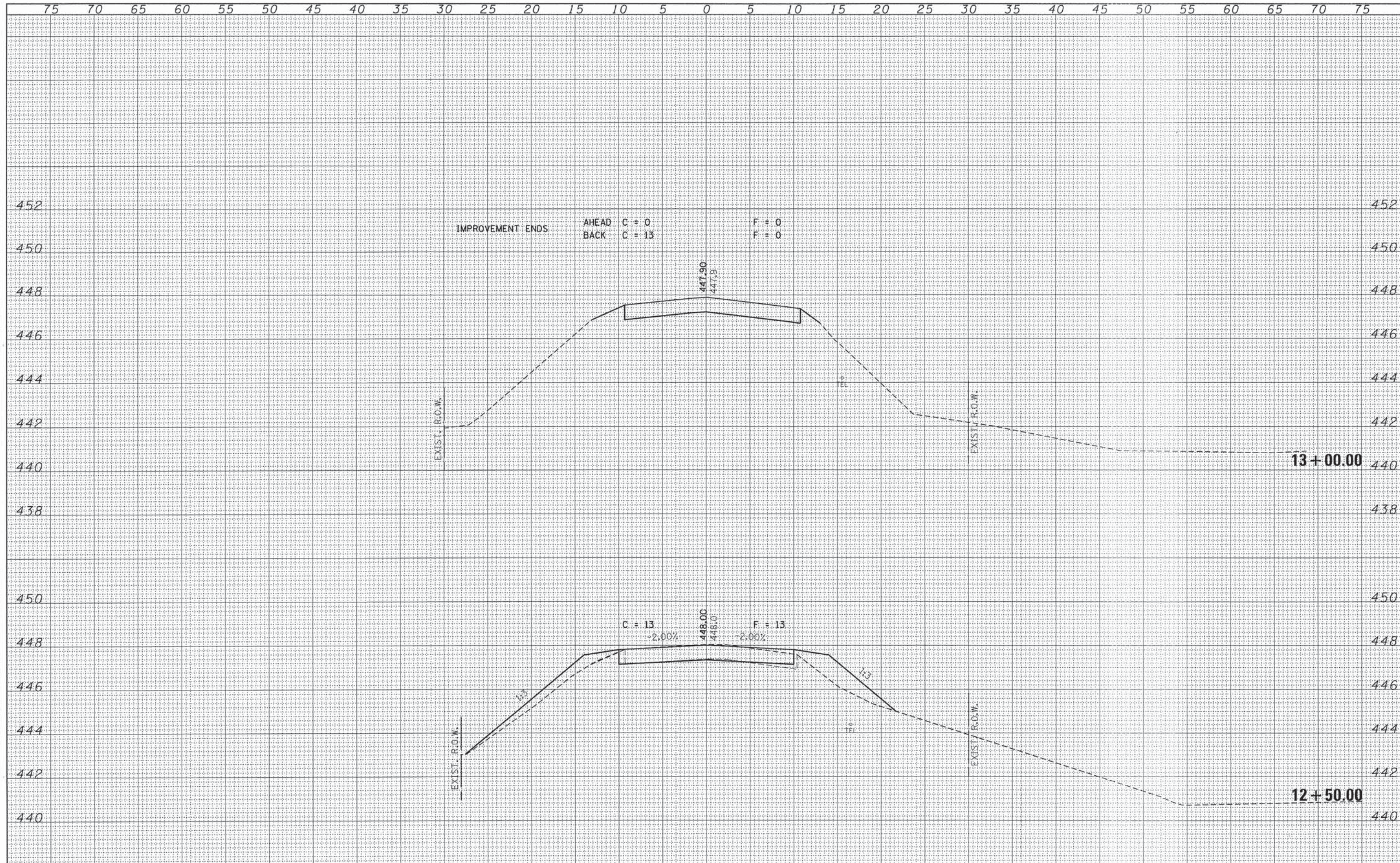
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HAMPTON, LENZINI AND RENWICK, INC. 2015 BREWSTER DRIVE SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - L.G.C.	REVISED -			15	13-00209-00-BR	JEFFERSON	38	24		
ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. / C.E.P.C. / 184-000889	PLOT DATE = 4/3/2014	CHECKED - S.W.M.	REVISED -	SCALE: 5H:2V		SHEET NO. 16 OF 18 SHEETS		STA. 11+50.00 TO STA. 11+75.00		CONTRACT NO. 99524		
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -		15	13-00209-00-BR	JEFFERSON	38	25				
ILR ILLINOIS PROFESSIONAL DESIGN FIRM 1517 S. ILLINOIS ST. SPRINGFIELD, ILLINOIS 62703 LS / PE / SE CORP. 184.000000	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		SCALE: 5H:2V				SHEET NO. 17 OF 18 SHEETS		STA. 12+00.00 TO STA. 12+25.00	CONTRACT NO. 99524	
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SURVEY	
FINAL SURVEY	

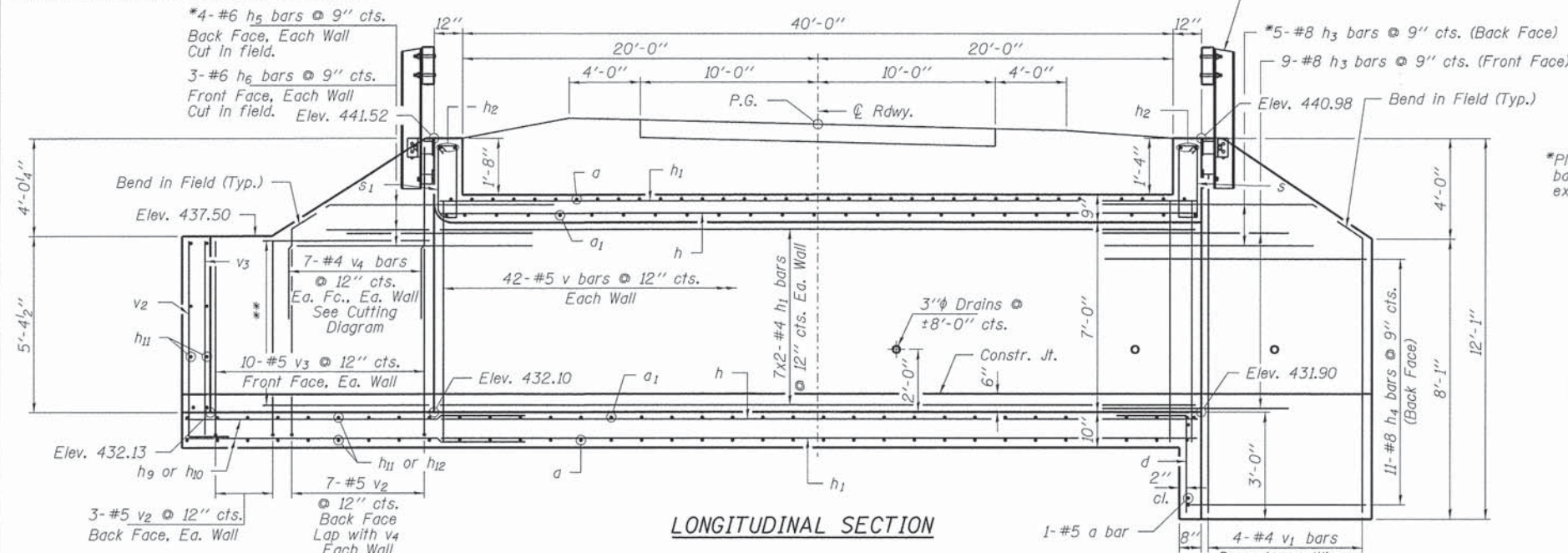
DATE	
BY	
NO.	
AREAS CHECKED	
TEMPLATE	
NOTE BOOK	
SURVEY	
ORIGINAL SURVEY	

FILE NAME = 130266-ah1-ssa.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS JEFFERSON COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS				
HAMPILTON, LENZINI AND RENWICK, INC. 3083 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62733	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-000899	PLOT DATE = 4/3/2014	CHECKED - S.W.M.	REVISED -		15	13-00209-00-BR	JEFFERSON	38	26
		DATE - 04/03/14	REVISED -		PANZIER LANE		CONTRACT NO. 99524		ILLINOIS FED. AID PROJECT BR05-00810763
				SCALE: 5h:2V	SHEET NO. 18 OF 18 SHEETS		STA. 12+50.00 TO STA. 13+00.00		

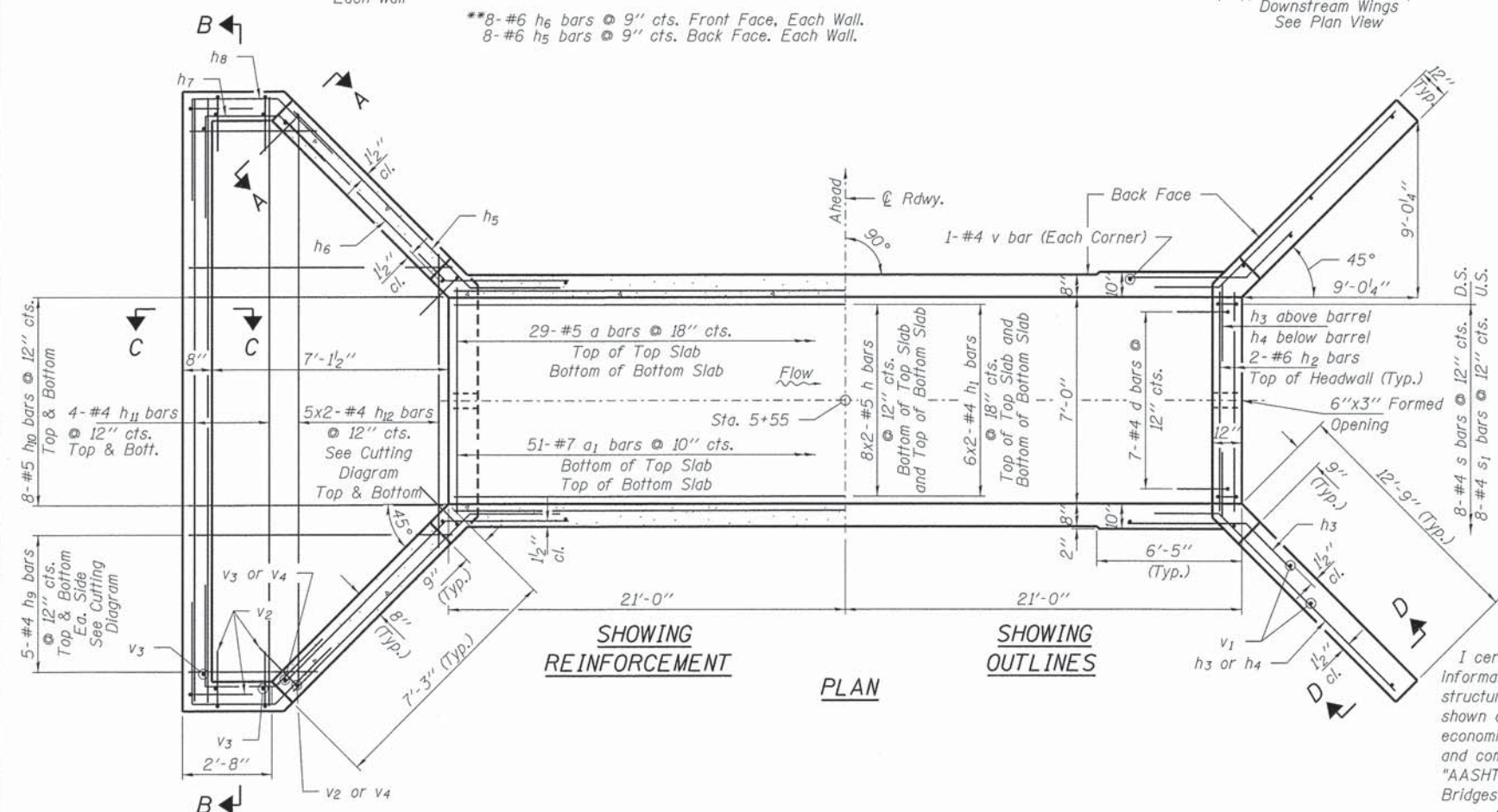
BENCHMARK: Iron Pin - 12.0' Rt., Sta. 4+64, Elev. 442.43

EXISTING STRUCTURE: Sta. 5+55, 78" CMP; 45'-0" long - Existing culvert to be salvaged.

Structure closed to traffic during construction.

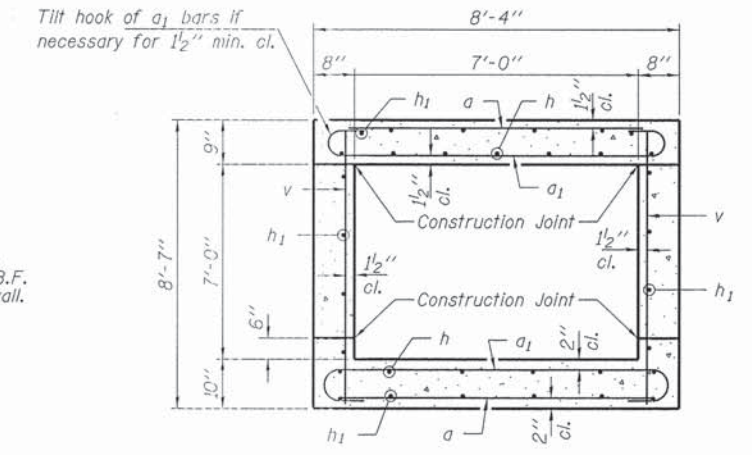


LONGITUDINAL SECTION



SHOWING REINFORCEMENT PLAN

SHOWING OUTLINES PLAN



SECTION THRU BARREL

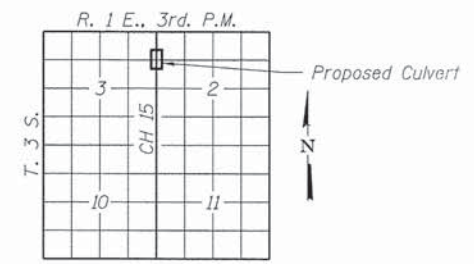
INDEX OF STRUCTURE SHEETS
1-2. Culvert Details

NOTES

Exposed edges shall be beveled 3/4".
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60. See Special Provisions.
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
It shall be the responsibility of the Contractor to divert flow during construction in order to keep construction areas free of water. The method of water diversion shall subject to the approval of the Engineer and shall be considered included in the cost of Concrete Box Culverts.
All Construction Joints shall be bonded.
Bars indicated thus 8x2-#5 etc. indicates 8 lines of bars with 2 lengths per line.
All reinforcement bars shall be epoxy coated.
Precast culvert alternates will be allowed.

MIN. BAR LAPS

- #4 = 1'-8" (Dropbox)
- #4 = 1'-4" (Barrel)
- #5 = 1'-8" (Barrel)



LOCATION SKETCH

DESIGN STRESSES

f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

LOADING HL-93

Design Specifications: 2012 AASHTO LRFD with all applicable Interims.

I certify that to the best of my knowledge, information and belief, this culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO Standard Specifications for Highway Bridges."

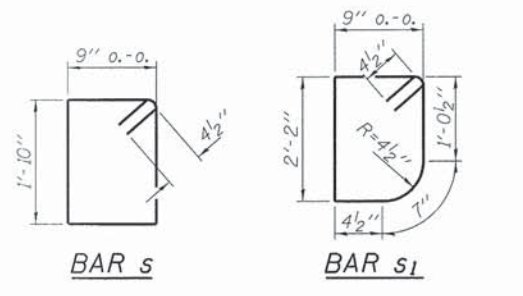
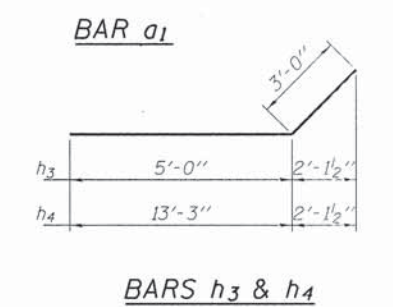
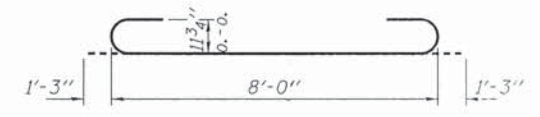
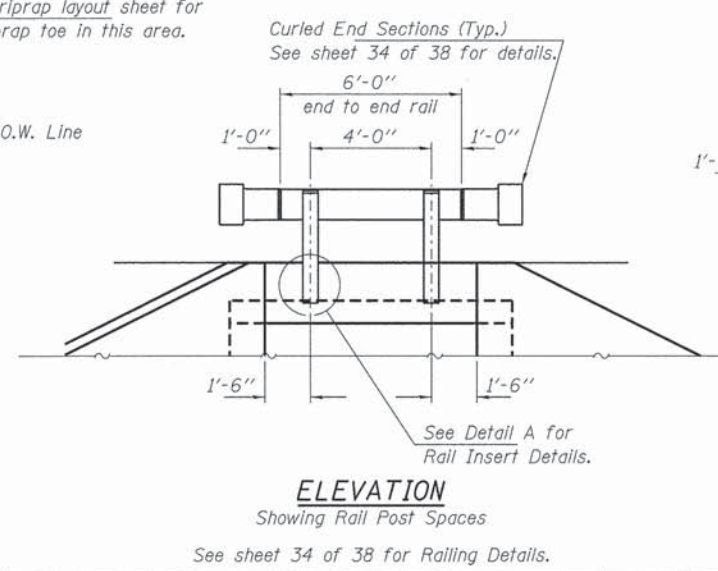
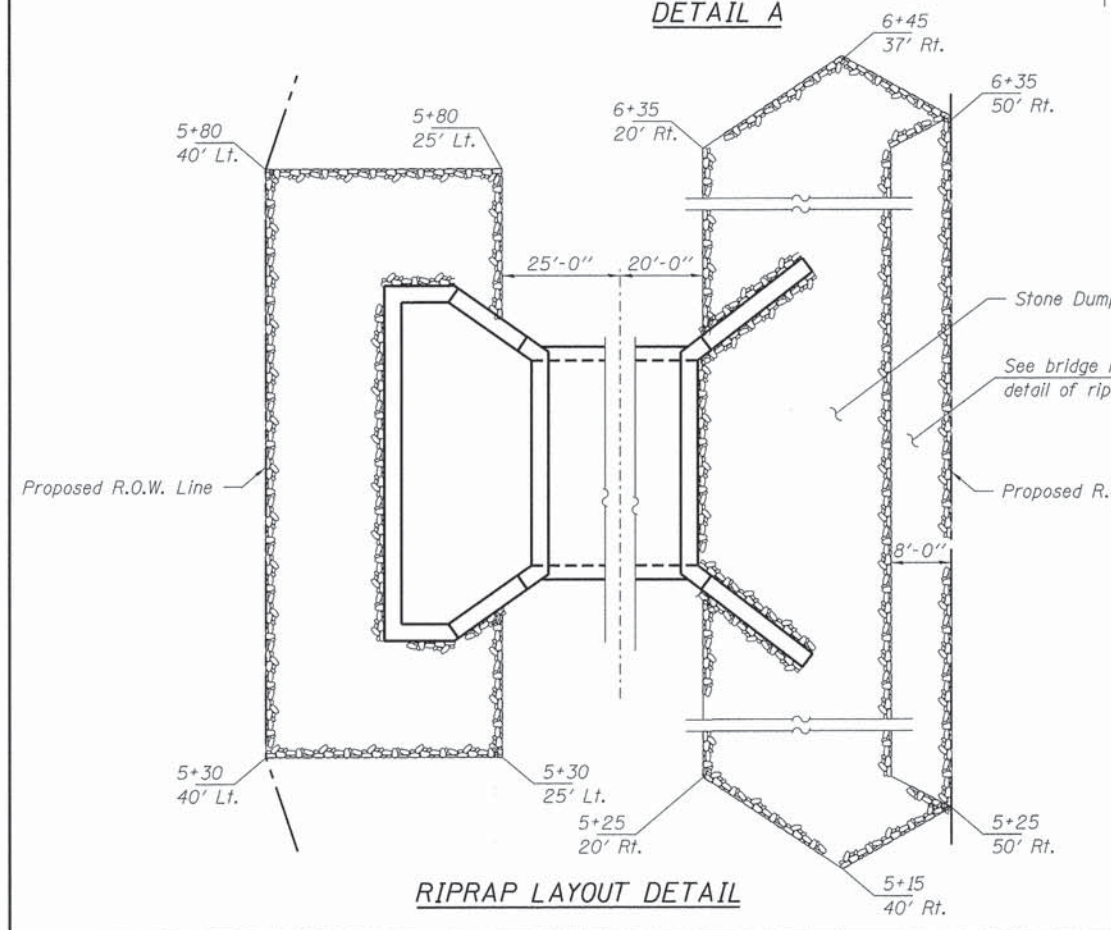
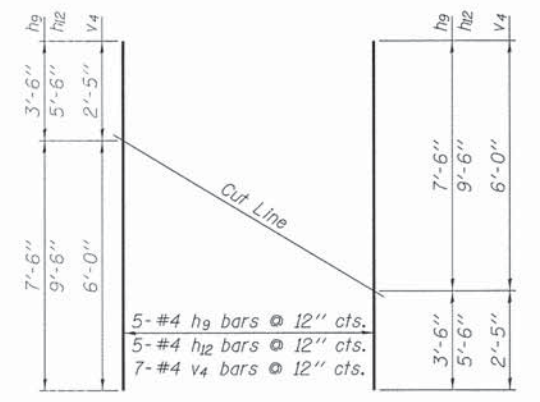
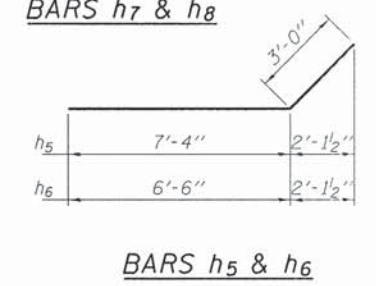
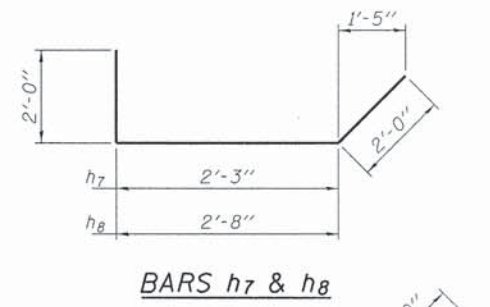
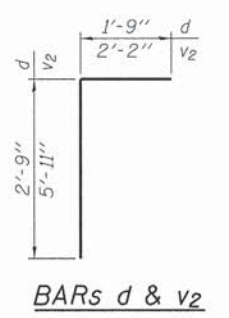
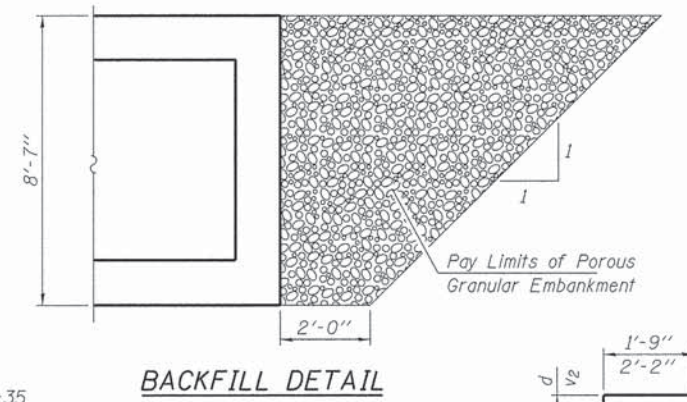
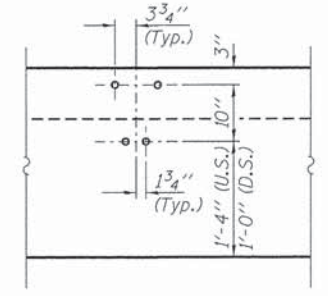
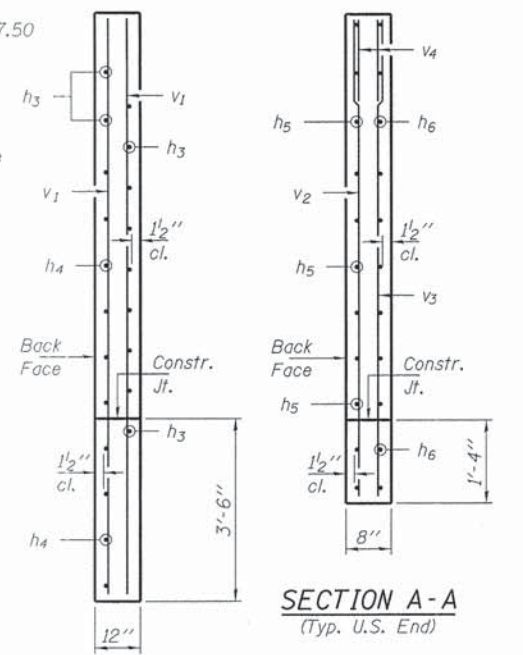
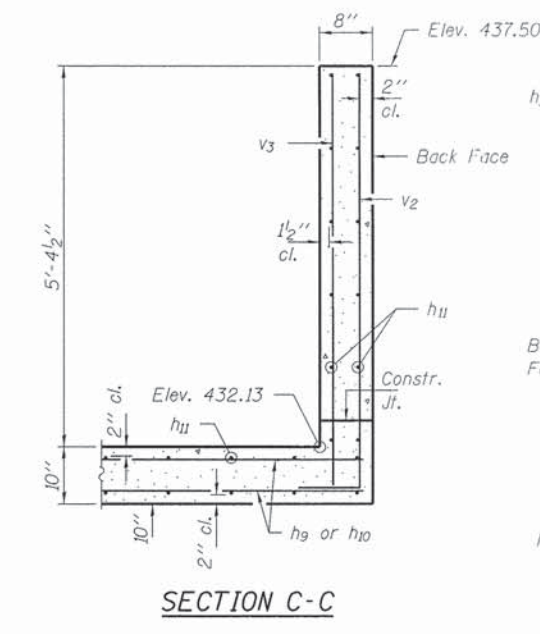
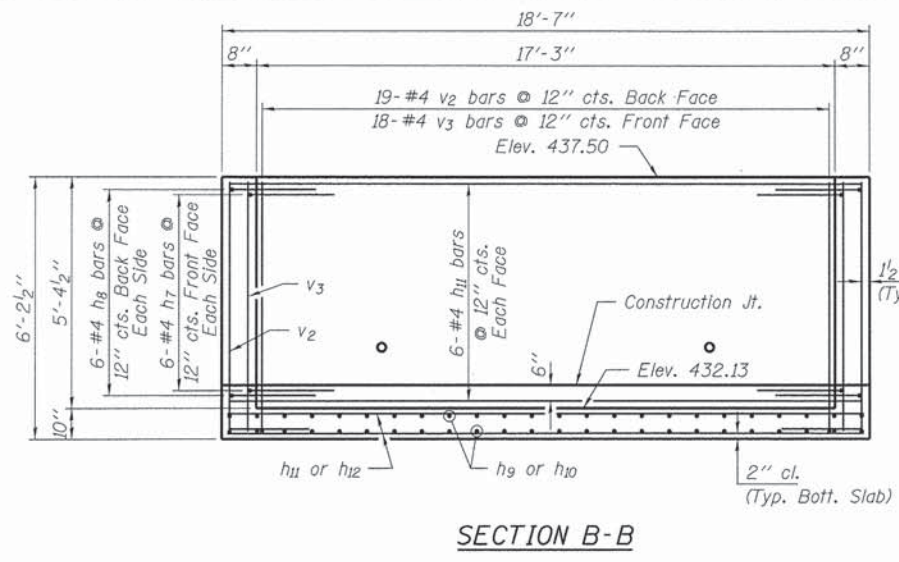
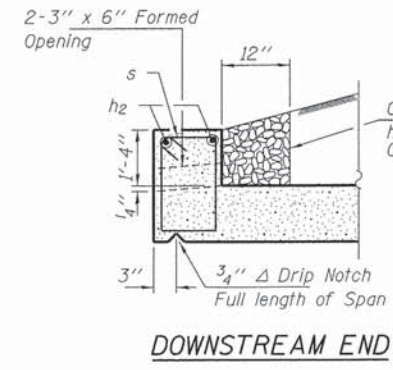
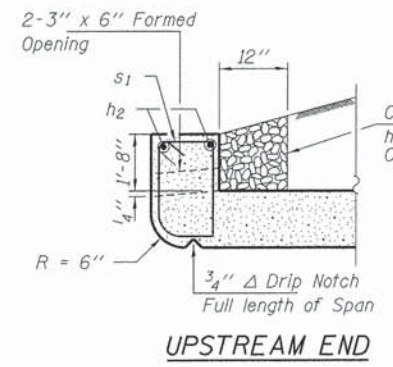
Steven W. Megginson 04/03/2014
ILLINOIS STRUCTURAL ENGINEER NO. 081-6064



BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a	59	#5	8'-0"	—
a1	102	#7	9'-6"	—
d	7	#4	4'-6"	—
h	32	#5	21'-8"	—
h1	52	#4	21'-6"	—
h2	4	#6	7'-6"	—
h3	28	#8	8'-0"	—
h4	22	#8	16'-3"	—
h5	24	#6	10'-4"	—
h6	22	#6	9'-6"	—
h7	12	#4	6'-3"	—
h8	12	#4	6'-8"	—
h9	10	#4	11'-0"	—
h10	16	#4	9'-6"	—
h11	20	#4	18'-3"	—
h12	10	#4	15'-0"	—
s	8	#4	5'-11"	—
s1	8	#4	5'-8"	—
v	88	#5	8'-3"	—
v1	8	#4	11'-9"	—
v2	39	#4	8'-1"	—
v3	38	#4	5'-11"	—
v4	14	#4	8'-5"	—

Steel Railing, Type S1	Foot	12
Concrete Box Culverts	Cu. Yd.	55.0
Reinforcement Bars, Epoxy Coated	Pound	7,690
Stone Dumped Riprap, Class A4	Ton	410
Porous Granular Embankment	Ton	360



FILE NAME = 130266-sht-culvert.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -
3035 STEVENSON DRIVE, SUITE 201		DRAWN - D.A.B.	REVISED -
SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM	PLOT SCALE =		
LSI/PE/SE CORP. 184-000989	PLOT DATE = 4/3/2014		

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

CULVERT DETAILS
STATION 5+55
SHEET NO. 2 OF 2 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	13-00209-00-BR	JEFFERSON	38	28
PANZIER LANE			CONTRACT NO. 99524	
ILLINOIS FED. AID PROJECT BR05-00810761				

BENCHMARK: On Abutment 13' LT., Sta. 9+44 Elev. 447.72

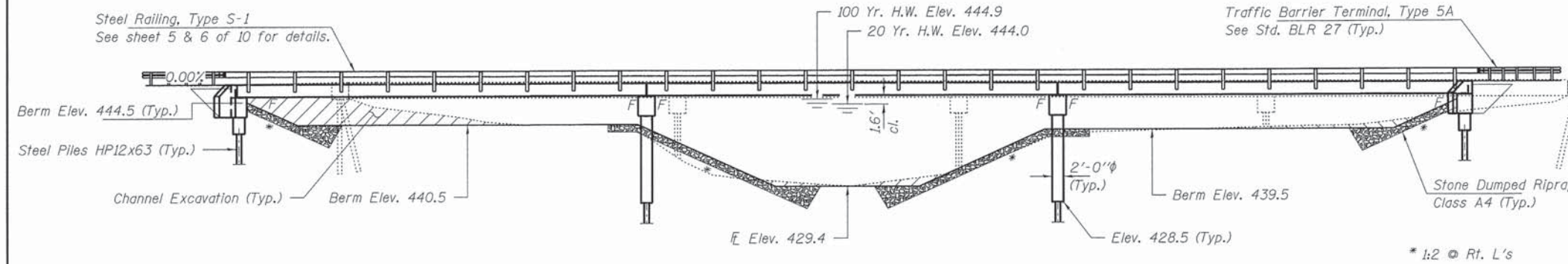
EXISTING STRUCTURE NO. 041-3170: Precast prestressed concrete deck beam bridge. Four spans @ 54'-8" on steel pile bent abutments and piers. 217.0' fc.-fc. abutts., 24.0' o.-o. deck, skew = 25°.

Structure closed to traffic during construction.

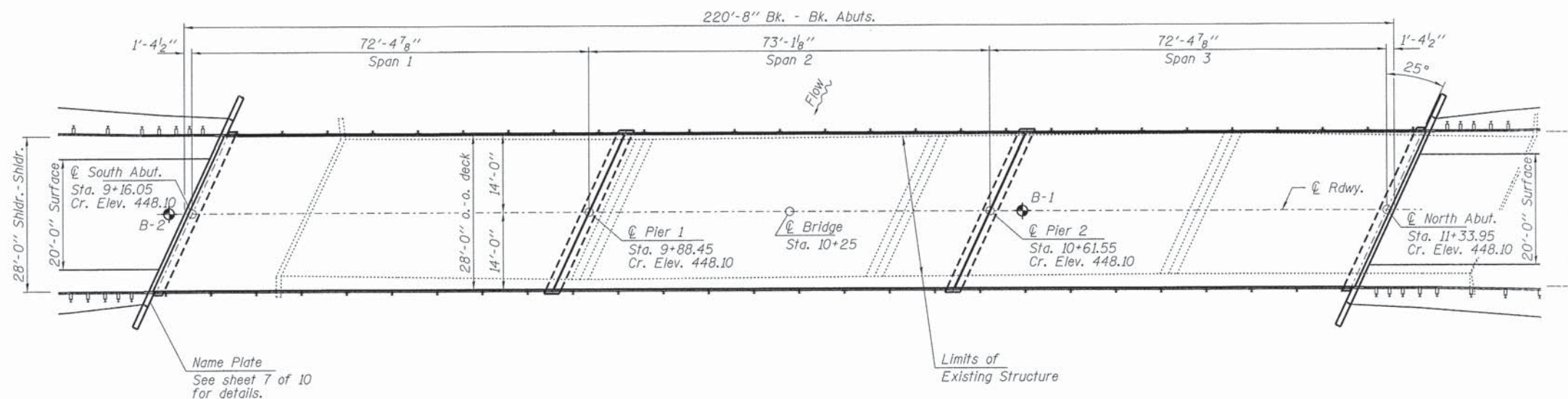
Precast Deck Beams to be salvaged per Engineer approval. See Special Provisions.

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
 Excavation required to construct the Abutments and Piers shall be included in the cost of Concrete Structures. No additional compensation will be allowed for Structure Excavation or Cofferdams.
 All proposed construction activities shall be in accordance with Nationwide Permit number 14 of the Department of the Army authorized under Section 404 of the Clean Water Act.
 The IEPA has issued Section 401 Water Quality Certification for this activity. See Special Provisions for conditions.



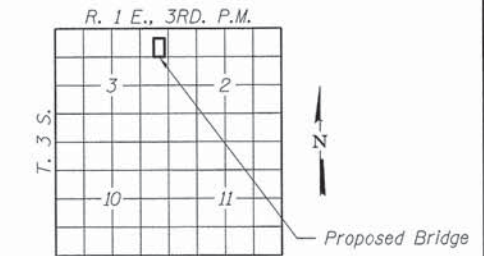
ELEVATION



PLAN

INDEX OF STRUCTURE SHEETS

1. General Plan & Elevation
2. Riprap Layout
3. 27"x48" PPC Deck Beam
4. 27"x48" PPC Deck Beam Details
5. Superstructure Details
6. Steel Railing, Type S-1
7. Abutments
8. Piers
9. HP Pile Details
10. Borings



LOCATION SKETCH

RAYSE CREEK
 BUILT 201. BY
 JEFFERSON COUNTY
 SEC. 13-00209-00-BR
 STR. NO. 041-3755
 LOADING HL-93

NAME PLATE

See Std. 515001

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with all applicable Interims.

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f_{pu} = 270,000$ psi ($\frac{1}{2}$ " low lax. strands)
 $f_{pbt} = 201,960$ psi ($\frac{1}{2}$ " low lax. strands)
 $f_y = 60,000$ psi (Reinf.)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.295g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.694g
 Soil Site Class = D

	Design Scour Elevations (ft.)			
	S. Abut.	Pier 1	Pier 2	N. Abut.
Q100	441.8	435.3	435.3	441.8
Q500	441.8	434.0	434.0	441.8

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Specifications."

Steven W. Megginson 04/03/2014
 ILLINOIS STRUCTURAL ENGINEER NO. 081-6064



Expires 11-30-2014

TOTAL BILL OF MATERIAL - BRIDGE

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			280
Stone Dumped Riprap, Class A4	Ton			590
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		57.6	57.6
Concrete Encasement	Cu. Yd.		21.4	21.4
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	6,132		6,132
Reinforcement Bars, Epoxy Coated	Pound		5,740	5,740
Steel Railing, Type S-1	Foot	446		446
Furnishing Steel Piles HP12x63	Foot		1,100	1,100
Driving Piles	Foot		1,100	1,100
Name Plates	Each		1	1
Controlled Low Strength Material	Cu. Yd.		66	66

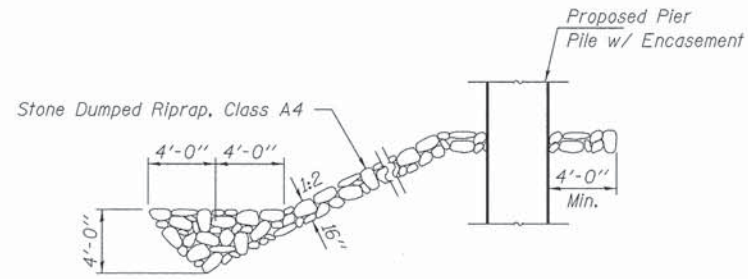
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3085 STEVENSON DRIVE, SUITE 201		DRAWN - R.D.H.	REVISED -
SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM	PLOT SCALE =		
LS / PE / SE CORP. 184.000939	PLOT DATE = 4/3/2014		

STATE OF ILLINOIS
 JEFFERSON COUNTY HIGHWAY DEPARTMENT

GENERAL PLAN & ELEVATION
 STRUCTURE NO. 041-3755

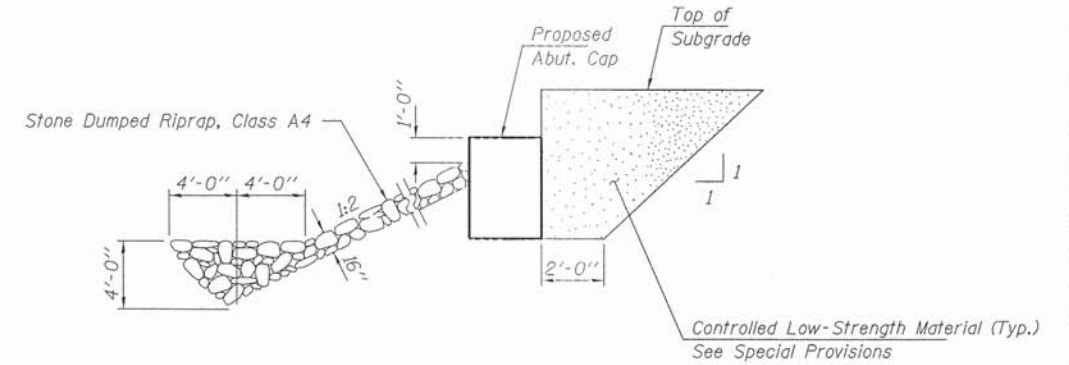
SHEET NO. 1 OF 10 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PANZIER LANE			CONTRACT NO. 99524	
ILLINOIS FED. AID PROJECT BROS-008107D				



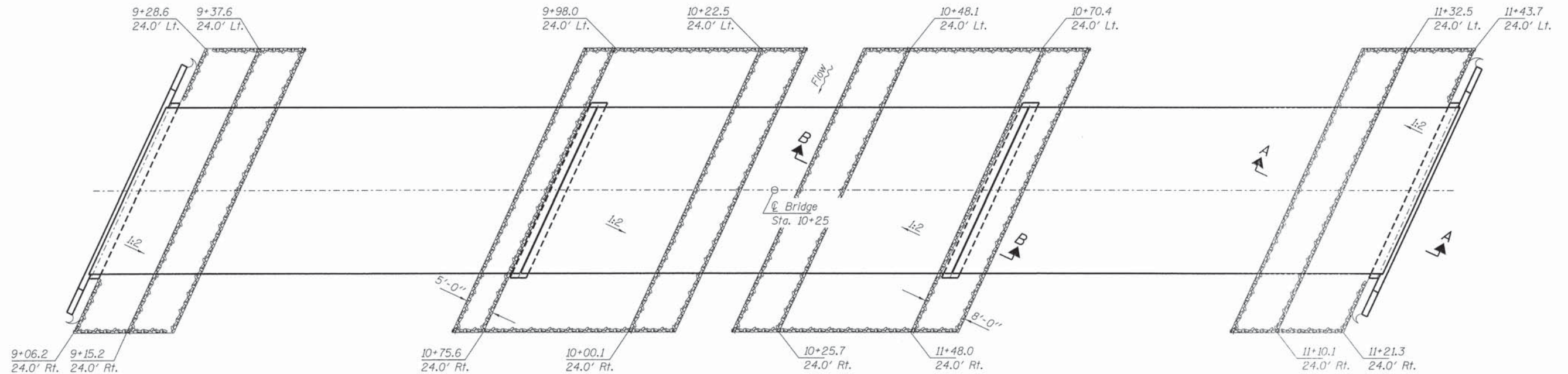
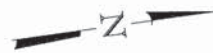
SECTION B-B

Note: See Special Provisions for Stone Dumped Riprap, Class A4.



SECTION A-A

Note: See Special Provisions for Stone Dumped Riprap, Class A4.

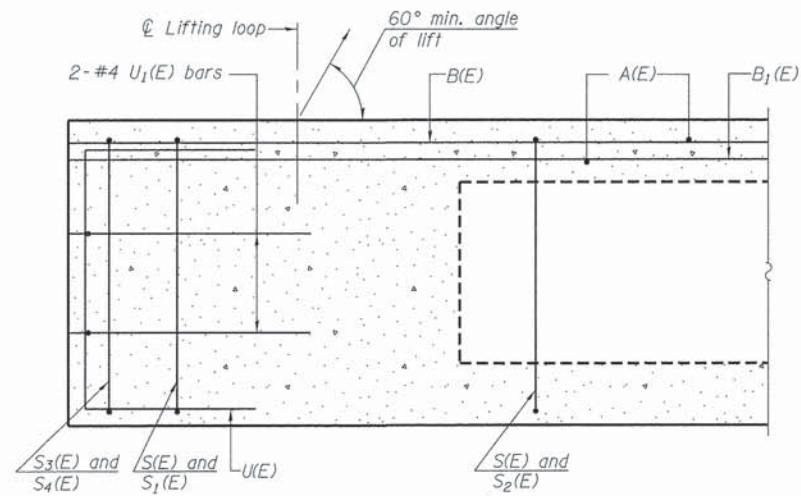


WATERWAY INFORMATION

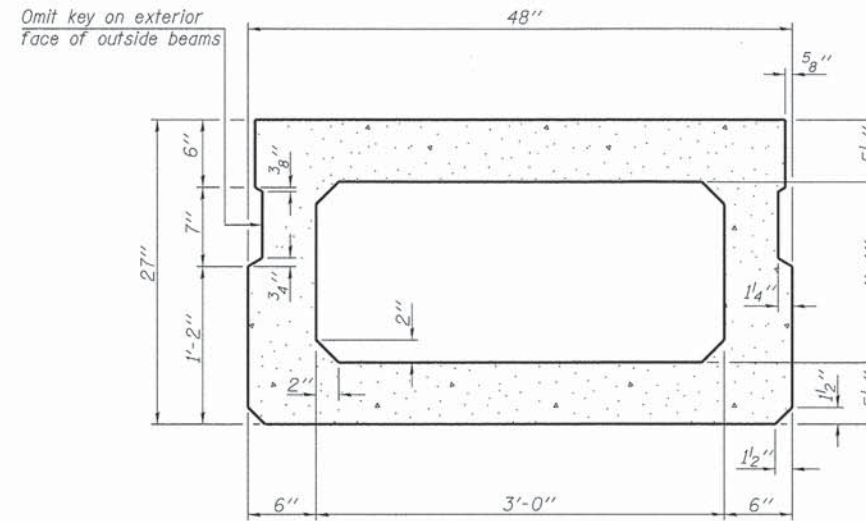
Drainage Area = 56.2 Sq. Mi. Existing Low Grade Elev. 442.7 @ Sta. 6+50
Proposed Low Grade Elev. 443.0 @ Sta. 6+80

Flood	Freq. Yr.	Q - Cu. Ft./S		Opening-Sq. Ft.		Natural H.W.E.	Head - Ft.		Headwater El.	
		Exist.	Prop.	Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
10 Year (Overtop)	Main Channel	5785	5785	1150	1211	443.62	0.41	0.42	444.03	444.04
	Relief Structure	124	124	45	45					
	Total	5909	5909	1195	1256					
20 Year (Design)	Main Channel	7159	7157	1227	1292	444.04	0.50	0.50	444.54	444.54
	Relief Structure	141	143	50	50					
	Total	7300	7300	1277	1342					
100 Year (Base)	Main Channel	10616	10608	1387	1463	444.91	0.70	0.69	445.61	445.60
	Relief Structure	134	142	60	60					
	Total	10750	10750	1447	1523					
500 Year (Max. Calc.)	Main Channel	14399	14424	1460	1600	445.71	0.92	0.92	446.63	446.63
	Relief Structure	161	136	66	66					
	Total	14560	14560	1526	1666					

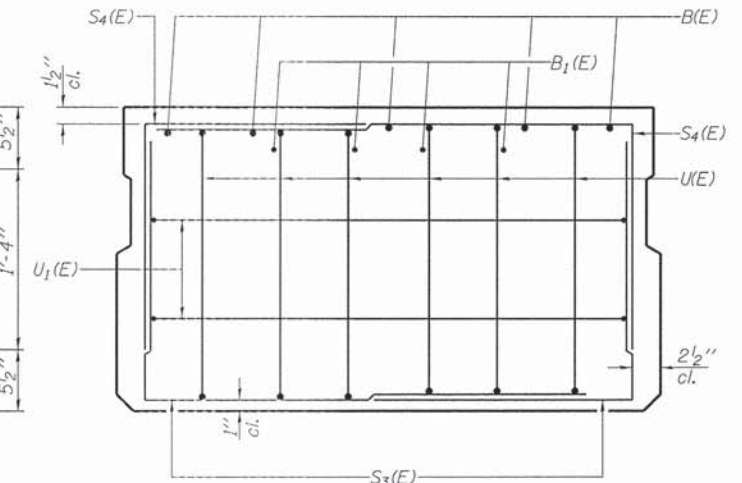
10 Year Velocity through Existing Bridge = 5.0 fps 10 Year Velocity through Proposed Bridge = 4.8 fps



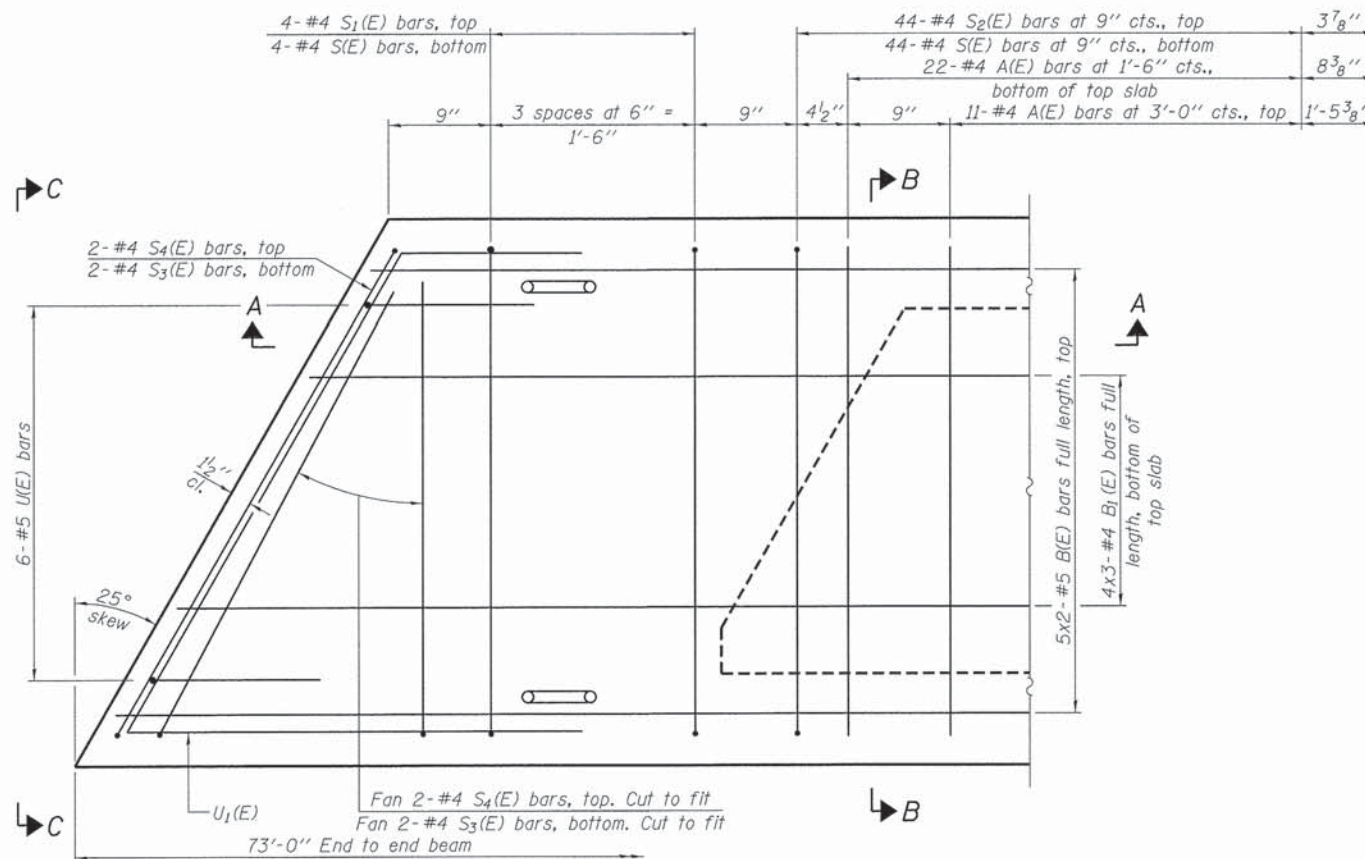
SECTION A-A



SECTION B-B
(Showing dimensions)

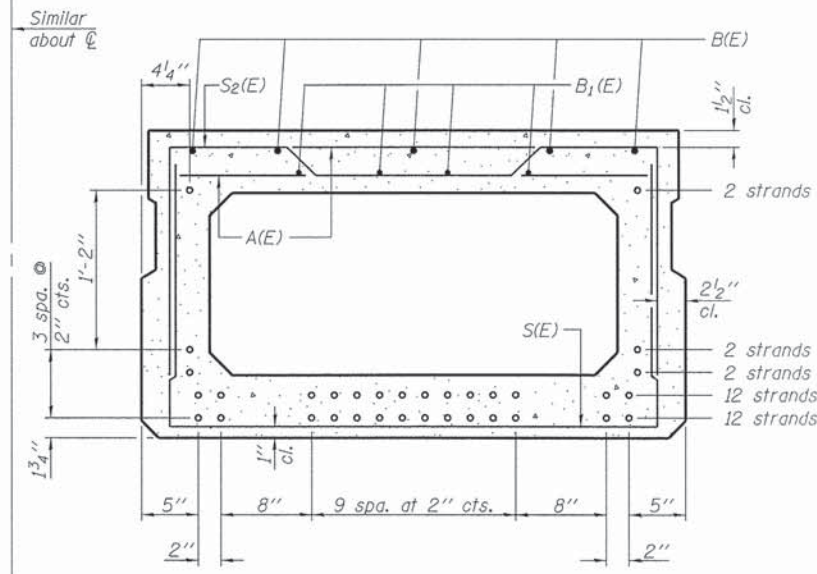


VIEW C-C



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 5x2-#5 etc. indicates 5 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)	66	#4	3'-7"	—
B(E)	10	#5	37'-8"	—
B1(E)	12	#4	25'-7"	—
S(E)	96	#4	7'-5"	┌
S1(E)	8	#4	6'-11"	┌
S2(E)	88	#4	7'-2"	┌
S3(E)	8	#4	4'-10"	┌
S4(E)	8	#4	4'-7"	┌
U(E)	12	#5	4'-6"	┌
U1(E)	4	#4	8'-0"	┌

Note: See sheet 4 & 5 of 10 for additional details and Bill of Material.

MINIMUM BAR LAP

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

PD-2748-L

7-1-10

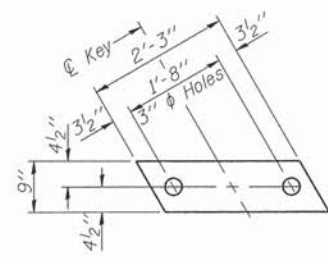
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HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -
3050 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761	PLOT SCALE *	DRAWN - R.D.H.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE COMP. 184-000859	PLOT DATE = 4/3/2014	CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

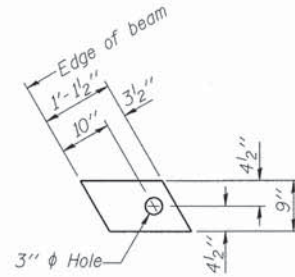
27" x 48" PPC DECK BEAM - SPANS 1, 2, & 3
STRUCTURE NO. 041-3755

SHEET NO. 3 OF 10 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	13-00209-00-BR	JEFFERSON	38	31
PANZIER LANE			CONTRACT NO. 99524	
ILLINOIS FED. AID PROJECT BROS-0081076				



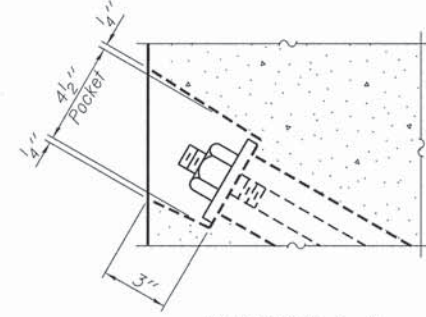
FABRIC BEARING PAD
(Interior - 36 Req'd.)



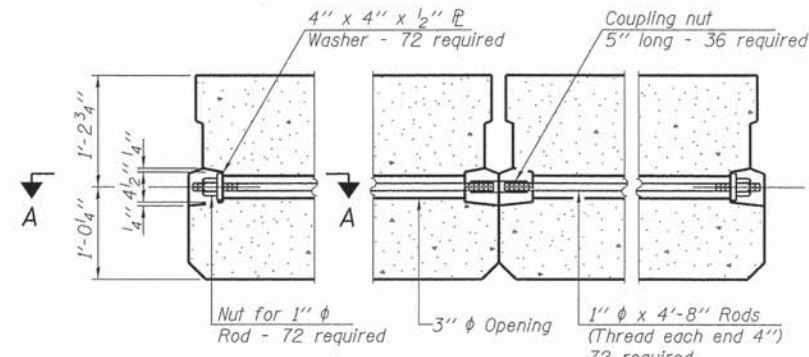
FABRIC BEARING PAD
(Exterior - 12 Req'd.)

FIXED

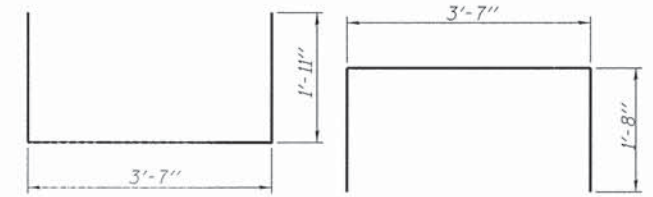
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.
24'-4"



SECTION A-A

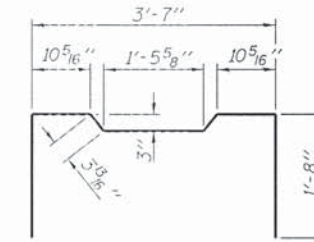


TYPICAL TRANSVERSE TIE ASSEMBLY



BAR S(E)

BAR S₁(E)

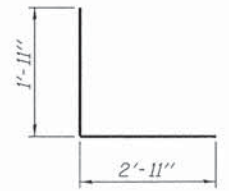


BAR S₂(E)

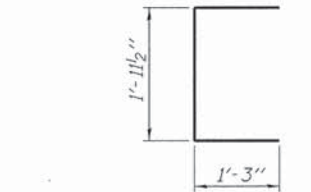
BAR S₃(E)



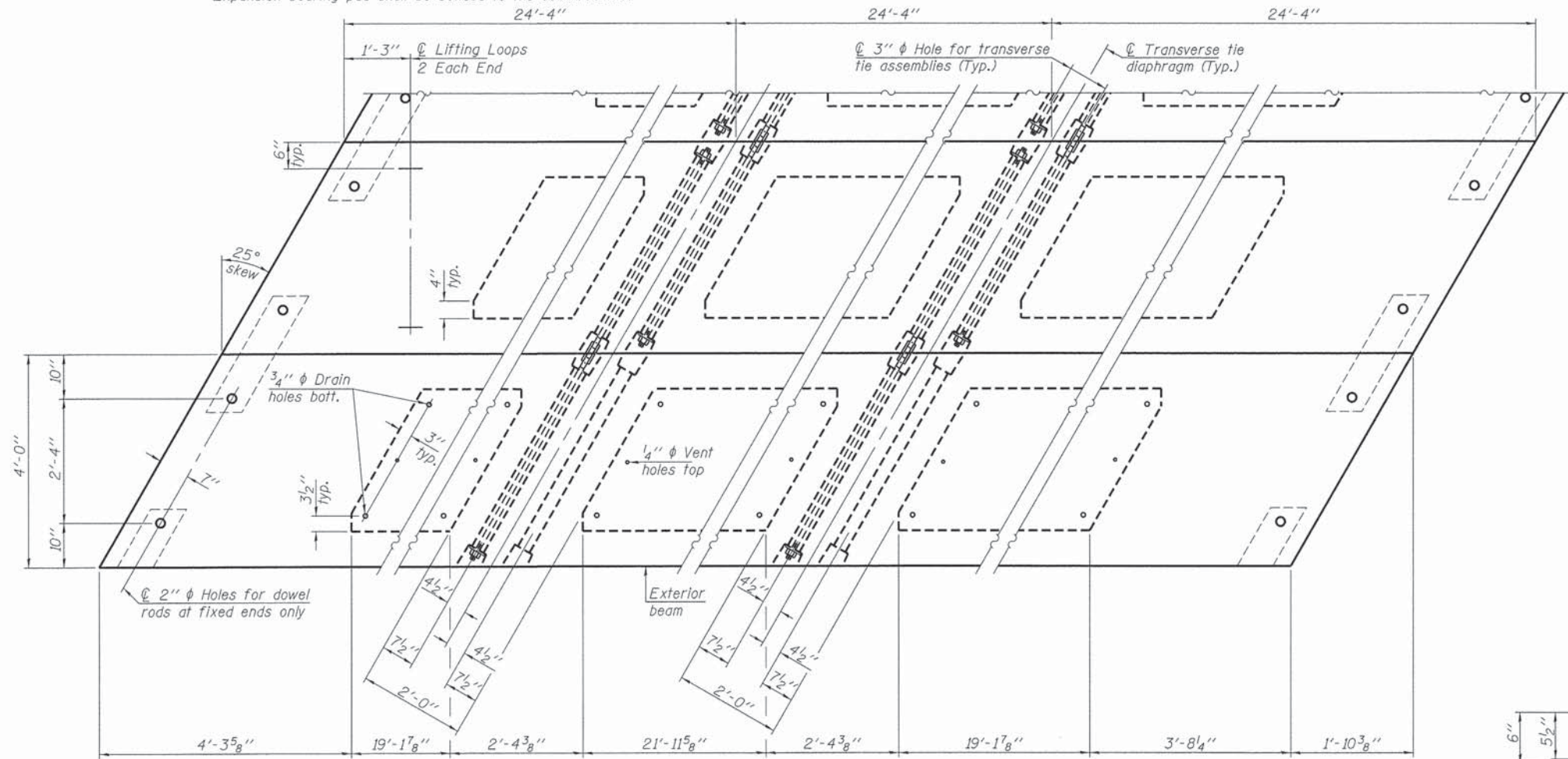
BAR S₄(E)



BAR U(E)



BAR U₁(E)

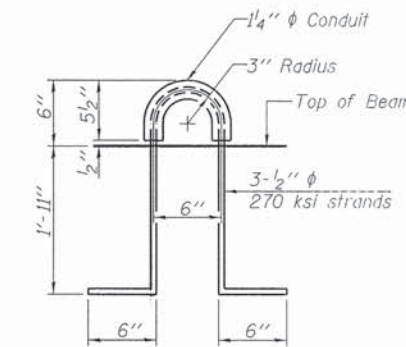


PLAN VIEW

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

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 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.
All reinforcement bars shall be epoxy coated.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	6,132
---	---------	-------

PD-2748-LD

7-1-10

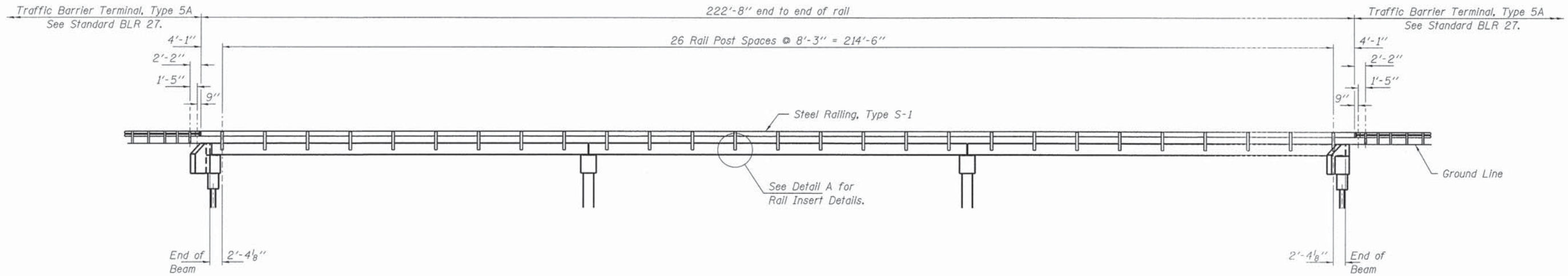
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HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -
3030 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62773		DRAWN - R.D.H.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184-000029	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 4/3/2014		

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

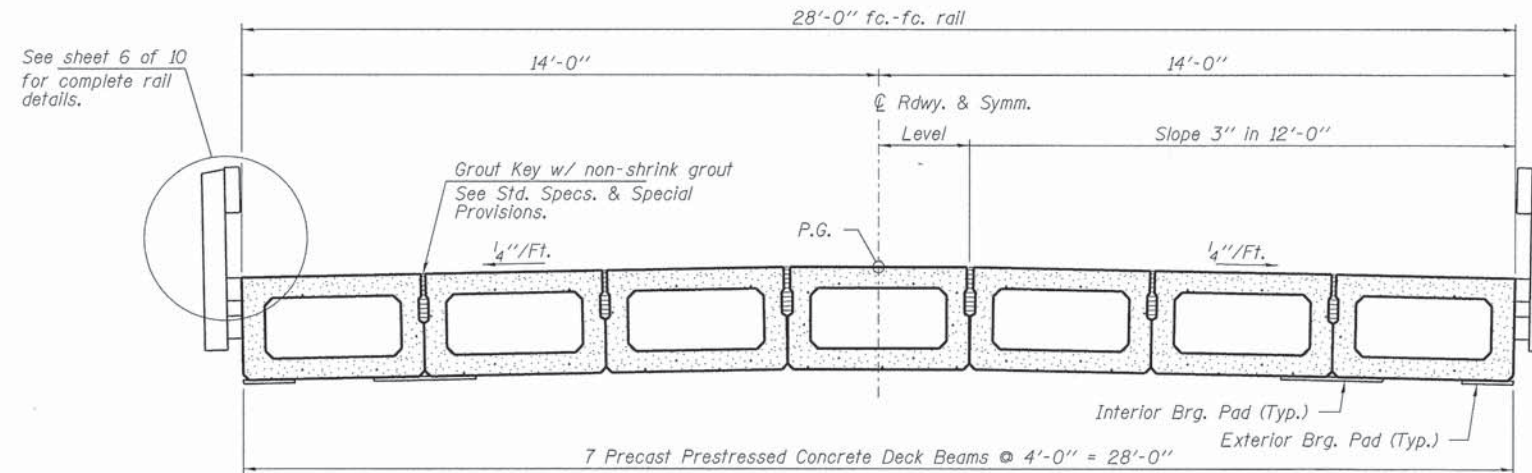
27" x 48" PPC DECK BEAM DETAILS - SPANS 1, 2, & 3
STRUCTURE NO. 041-3755

SHEET NO. 4 OF 10 SHEETS

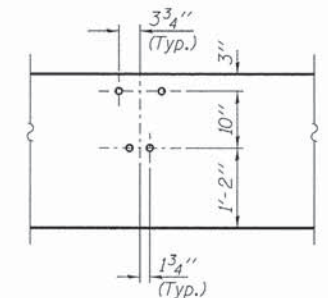
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
15	13-00209-00-BR	JEFFERSON	38	32
PANZIER LANE			CONTRACT NO. 99524	
[ILLINOIS] FED. AID PROJECT BROS-0081076				



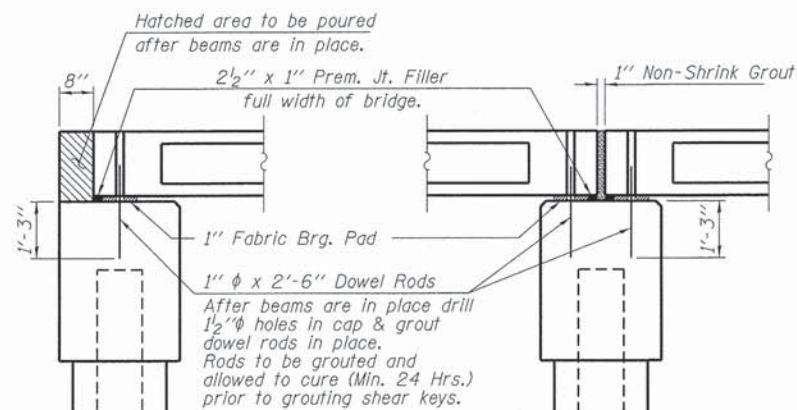
ELEVATION
Showing Rail Post Spaces
See sheet 6 of 10 for Railing Details.



CROSS SECTION
See sheets 3 & 4 of 10 for Superstructure.



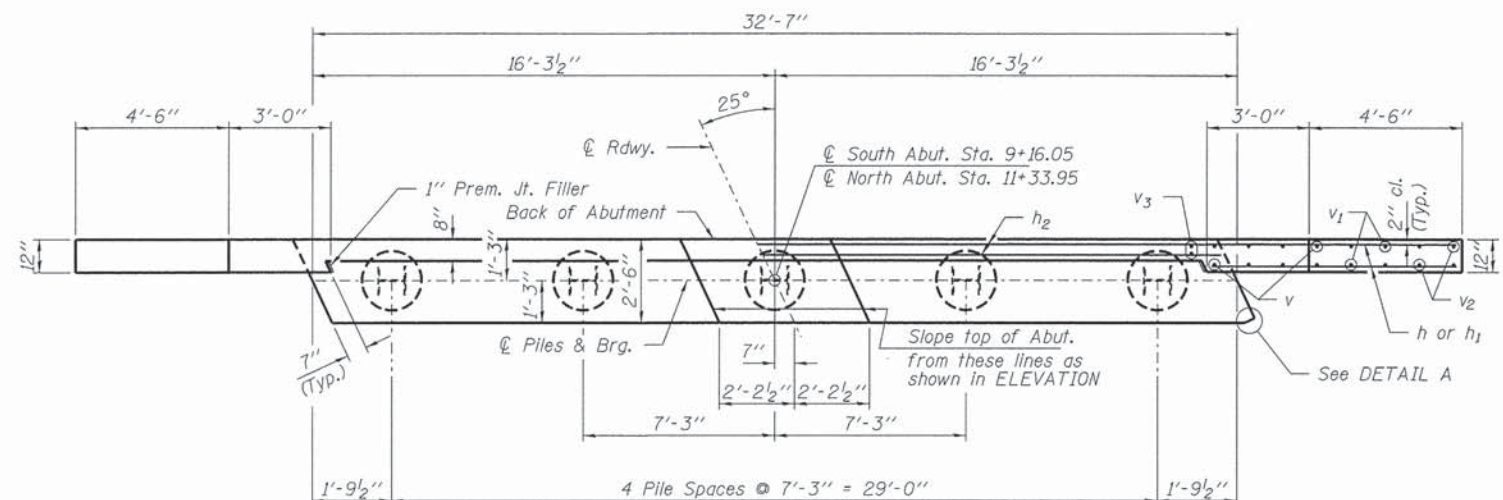
DETAIL A



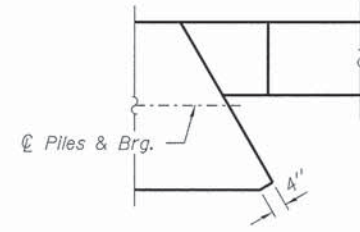
SECTION AT ABUTMENTS
© Rt. L's

SECTION AT PIERS
© Rt. L's

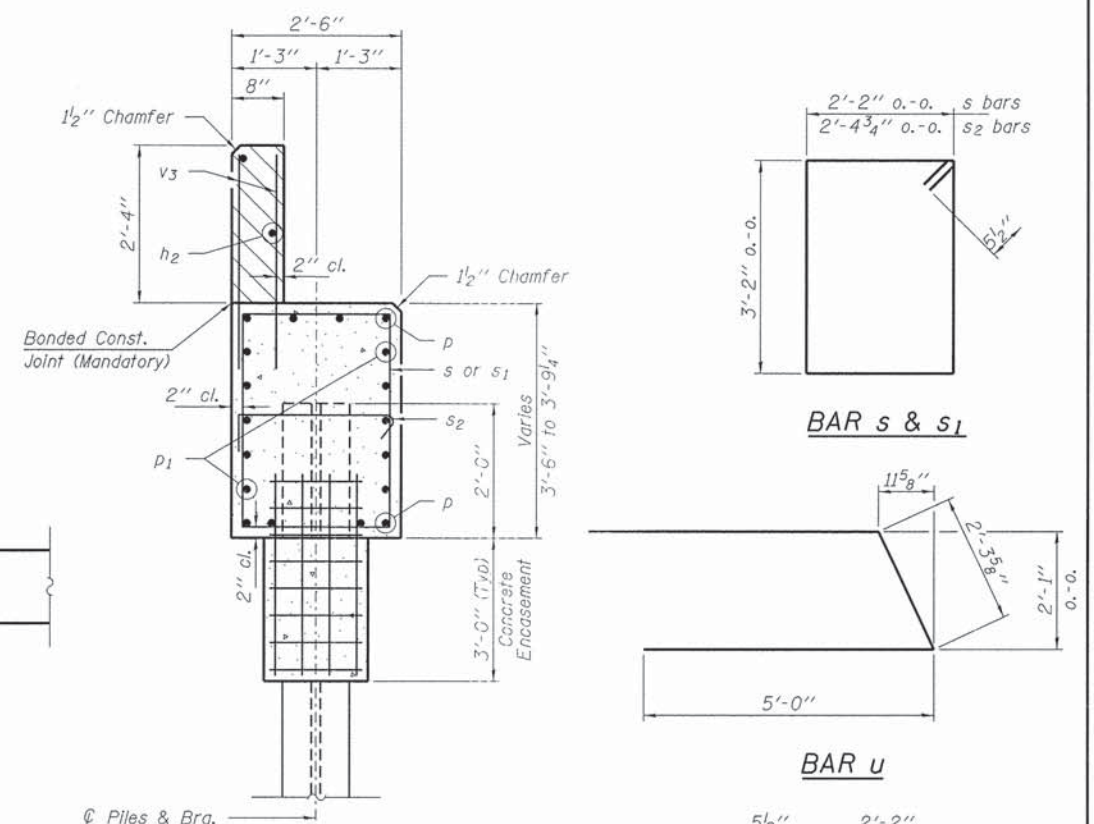
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HAMPTON, LENZINI AND RENWICK, INC. 3030 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62765	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			15	13-00209-00-BR	JEFFERSON	38	33
ILR ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184 009959	PLOT DATE = 4/3/2014	DRAWN - R.D.H.	REVISED -			PANZIER LANE		CONTRACT NO. 99524		
		CHECKED - S.W.M.	REVISED -			SHEET NO. 5 OF 10 SHEETS		ILLINOIS FED. AID PROJECT BROS-0081076		



PLAN

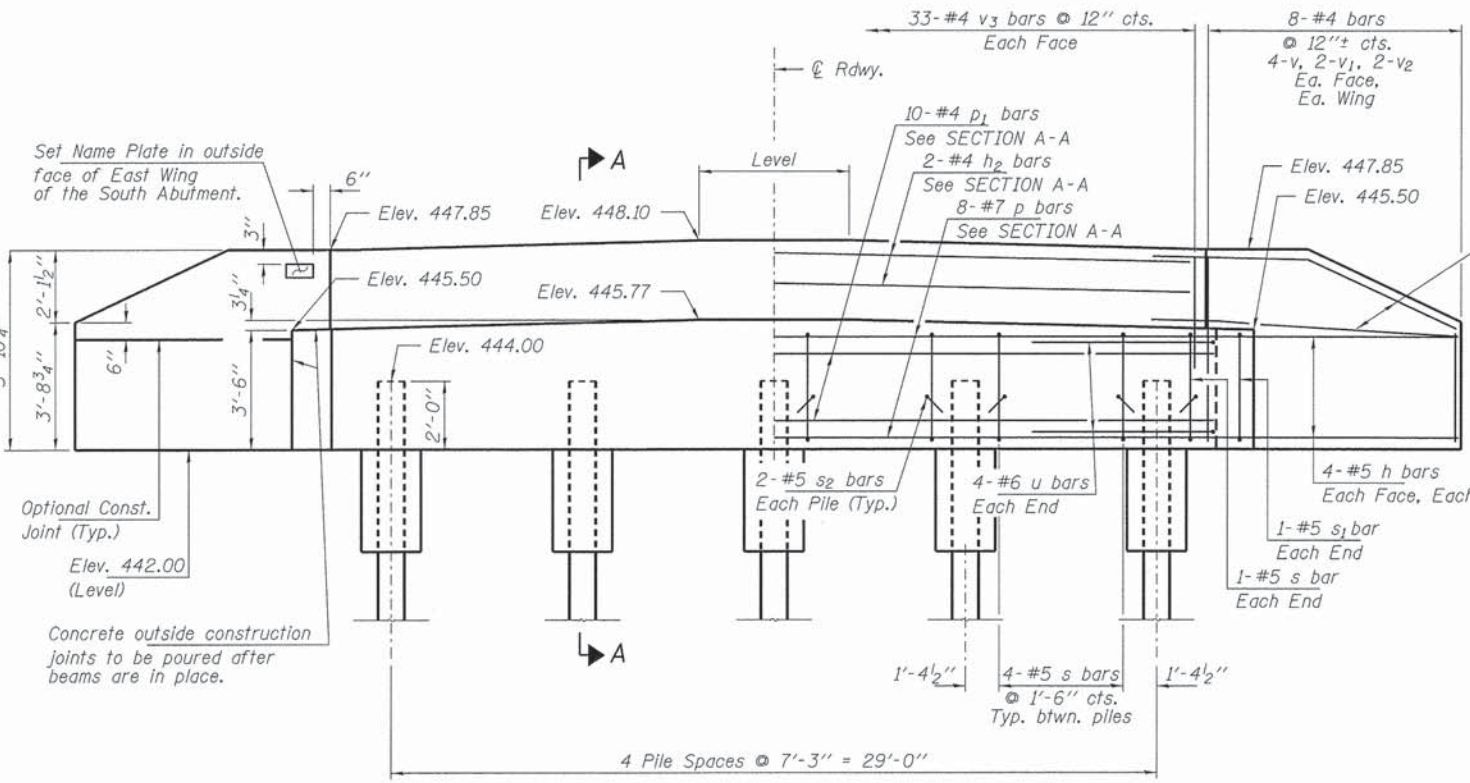


DETAIL A



SECTION A-A

Hatched area to be poured after beams are in place.



ELEVATION

Note: Extend h bars into abutment cap.

Fan 2-#5 h bars (B.F.)
Fan 2-#4 h1 bars (F.F.)
Each Wing Bend in field.

PILE DATA

Type Steel HP12x63
No. Req'd. (2 Abuts.) 10
Factored Resistance Available (Rf) 273 Kips/Pile
Nominal Required Bearing (Rn) 497 Kips/Pile
Est. Length 50 Ft/Pile

BAR s & s1

BAR u

BAR s2

BILL OF MATERIAL - 2 ABUTS.

BAR	NO.	SIZE	LENGTH	SHAPE	
h	40	#4	8'-9"	—	
h1	8	#4	7'-3"	—	
h2	4	#4	32'-3"	—	
p	16	#7	32'-3"	—	
p1	20	#4	32'-3"	—	
s	36	#5	11'-7"	□	
s1	4	#5	12'-1"	□	
s2	20	#5	3'-2"	—	
u	16	#6	12'-4"	—	
v	32	#4	5'-6"	—	
v1	16	#4	4'-5"	—	
v2	16	#4	3'-5"	—	
v3	132	#4	3'-2"	—	
Concrete Structures				Cu. Yd.	31.2
Concrete Encasement				Cu. Yd.	3.4
Reinforcement Bars, Epoxy Coated				Pound	3,220
Steel Piles HP12x63				Foot	500
Name Plates				Each	1

FILE NAME = 130266-sht-bridge.dgn
 USER NAME =
 HAMPTON, LENZINI AND RENWICK, INC.
 2045 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184 000959

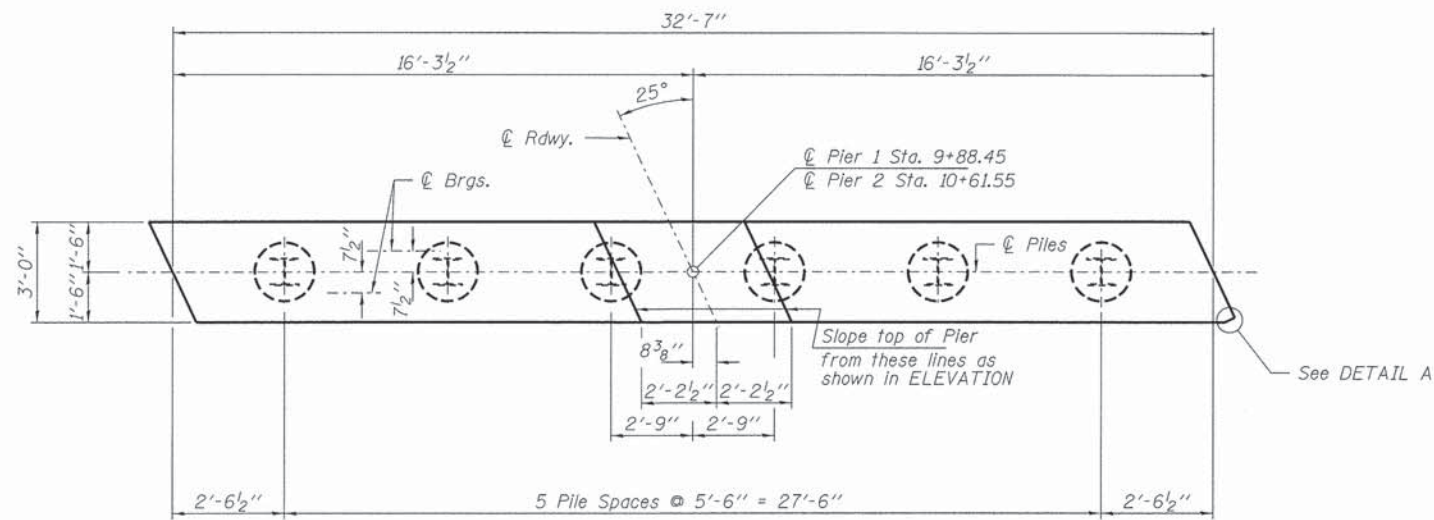
DESIGNED - L.A.P.
 CHECKED - S.W.M.
 DRAWN - R.D.H.
 CHECKED - S.W.M.
 REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 JEFFERSON COUNTY HIGHWAY DEPARTMENT

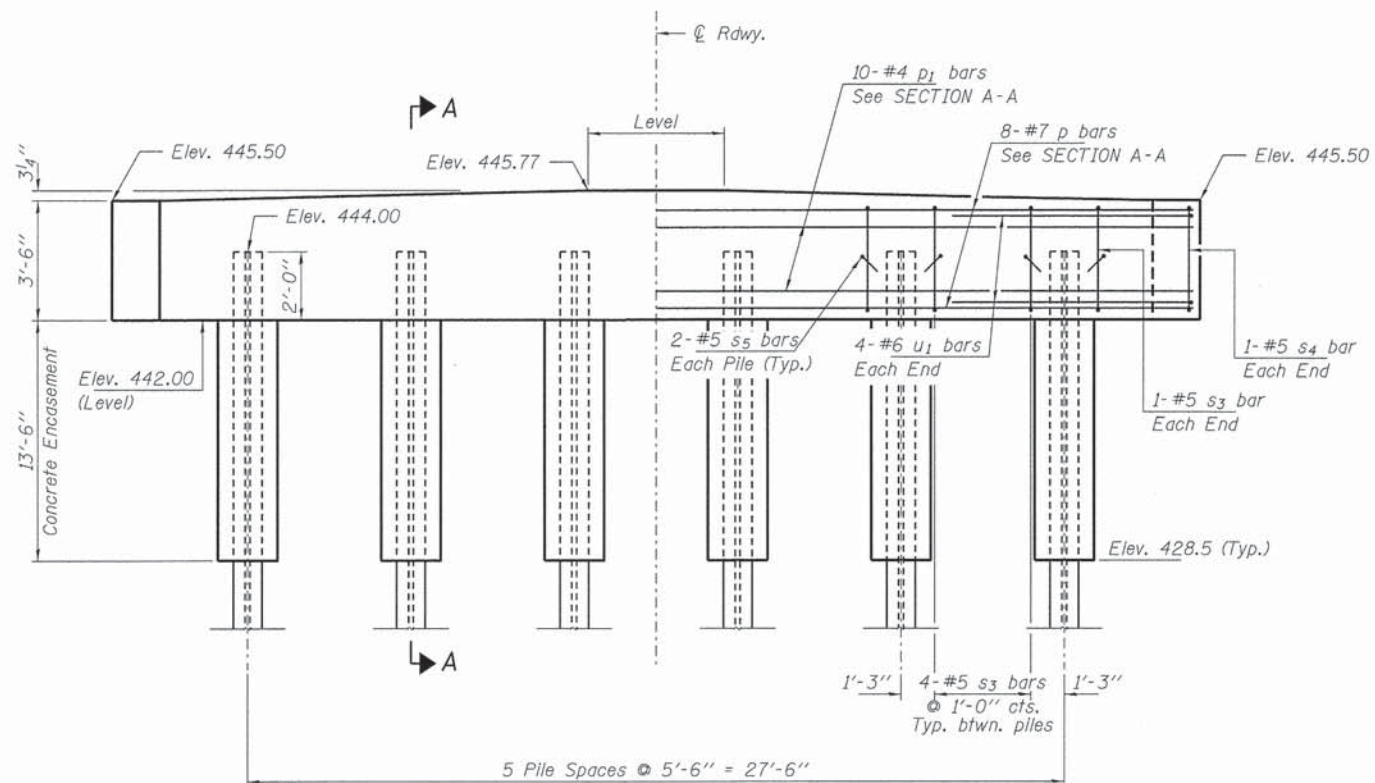
ABUTMENTS
 STRUCTURE NO. 041-3755

SHEET NO. 7 OF 10 SHEETS

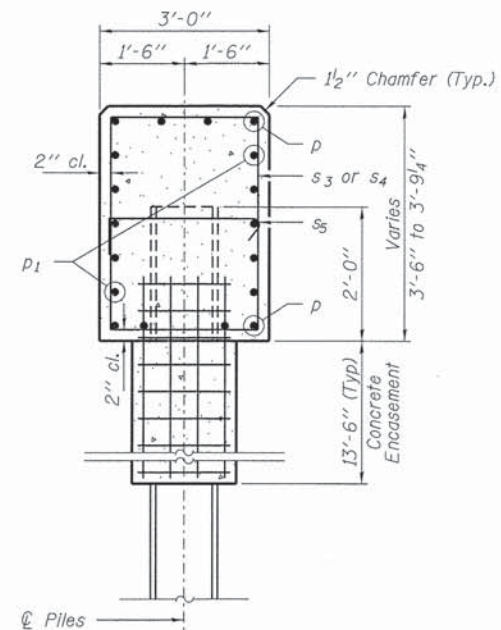
C.H. SECTION COUNTY TOTAL SHEETS SHEET NO.
 15 13-00209-00-BR JEFFERSON 38 35
 PANZIER LANE CONTRACT NO. 99524
 ILLINOIS FED. AID PROJECT BROS-0081076



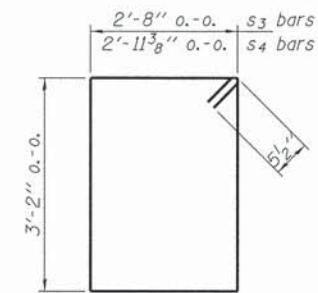
PLAN



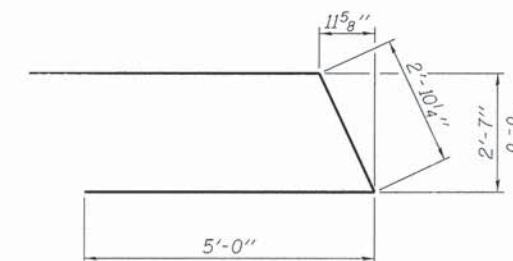
ELEVATION
(Looking North)



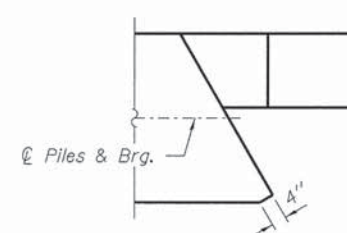
SECTION A-A



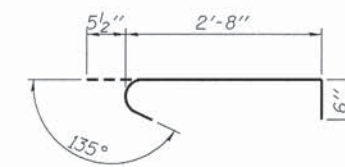
BAR s3 & s4



BAR u1



DETAIL A



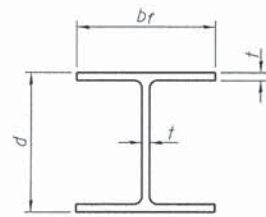
BAR s5

PILE DATA

Type	Steel HP12x63
No. Req'd. (2 Piers)	12
Factored Resistance Available	273 Kips/Pile
Nominal Req'd Bearing	497 Kips/Pile
Est. Length	50 Ft/Pile

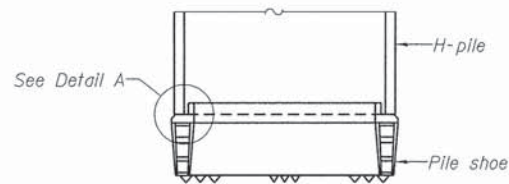
BILL OF MATERIAL - 2 PIERS

BAR	NO.	SIZE	LENGTH	SHAPE
p	16	#7	32'-3"	—
p1	20	#4	32'-3"	—
s3	44	#5	12'-7"	□
s4	4	#5	13'-3"	□
s5	24	#5	3'-8"	└
u1	16	#6	12'-11"	└
Concrete Structures			Cu. Yd.	26.4
Concrete Encasement			Cu. Yd.	18.0
Reinforcement Bars, Epoxy Coated			Pound	2,520
Steel Piles HP12x63			Foot	600

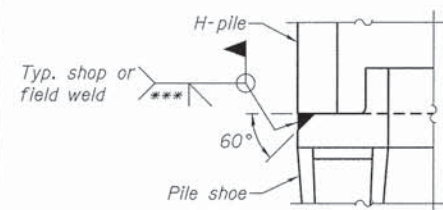


STEEL PILE TABLE

Designation	Depth d	Flange width br	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"

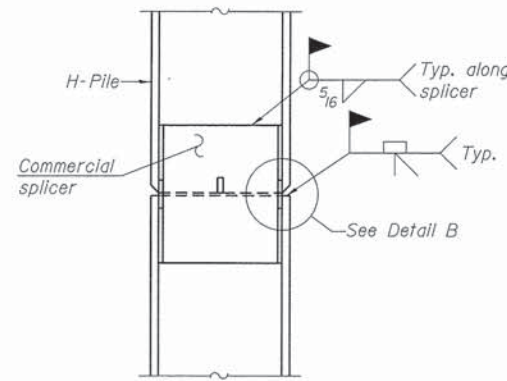


ELEVATION

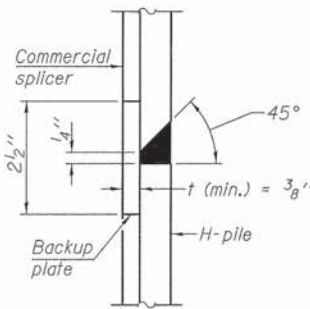


DETAIL A

H-PILE SHOE ATTACHMENT

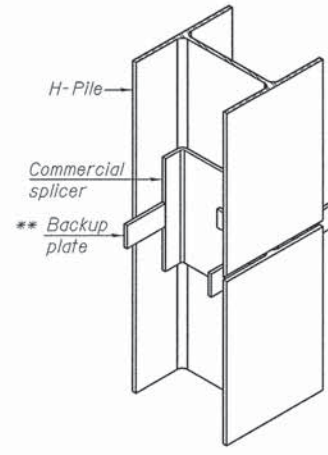


ELEVATION

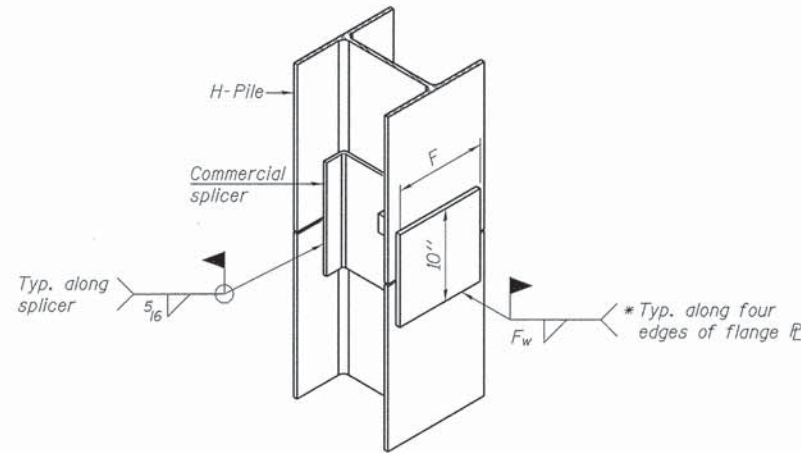


DETAIL "B"

WELDED COMMERCIAL SPLICE



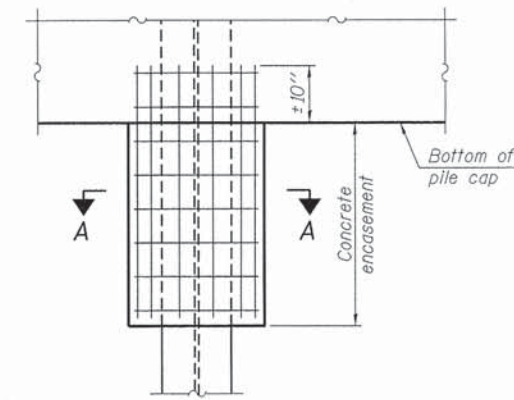
ISOMETRIC VIEW



ISOMETRIC VIEW

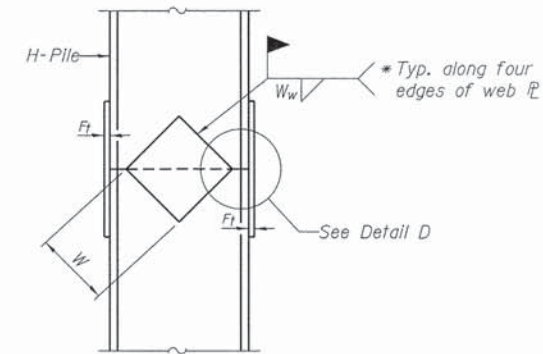
WELDED COMMERCIAL SPLICE ALTERNATE

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

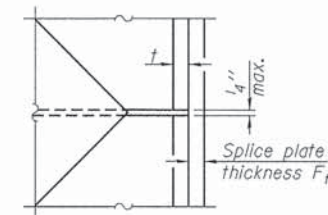


ELEVATION

PILE ENCASEMENT

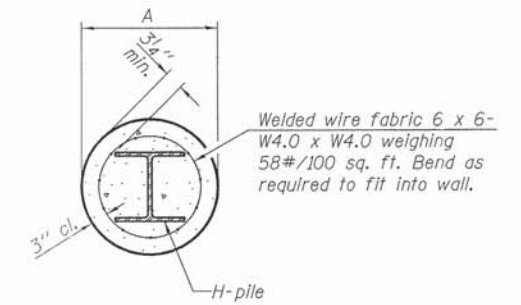


ELEVATION



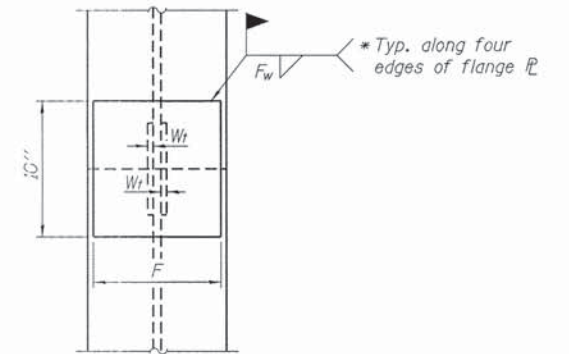
DETAIL D

WELDED PLATE FIELD SPLICE



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

SECTION A-A



END VIEW

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

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

F-HP

1-27-12

FILE NAME = 138266-sht-brs1dgn.dgn	USER NAME =	DESIGNED - L.A.P.	REVISIONS -	STATE OF ILLINOIS JEFFERSON COUNTY HIGHWAY DEPARTMENT	HP PILE DETAILS STRUCTURE NO. 041-3755	C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISIONS -			15	13-00209-00-BR	JEFFERSON	38	37
3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - R.D.H.	REVISIONS -			PANZIER LANE		CONTRACT NO. 99524		
ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000889	PLOT DATE = 4/3/2014	CHECKED - S.W.M.	REVISIONS -			ILLINOIS FED. AID PROJECT BR08-008107(1)				

SHEET NO. 9 OF 10 SHEETS

HOLCOMB FOUNDATION ENGINEERING INC.
 P.O. Box 88 618-529-5262
 Carbondale, Il. 62903 618-457-8991 fax Page 1 of 1

Bridge Foundation Boring Log

Project: H-13203 Bridge Co. Rd 400E over Rayse Creek Date: 9/16/2013
 Section: Station Bored by: J. Carter
 Structure: SN 041-3170 County: Jefferson Checked By: T. Holcomb

Boring No.	Station	Offset	Elevation	N	Qu tsf	w	Surface Water Elev.						
							Elevation	N	Qu tsf				
1			0				Ground Water Elev. During Drilling 82.6				sandy clay to clayey sand continued		
			3	0.85	20			25	5	1.28		26	
			7	1.45	19				12	--		22	
			(426.8) 85.3										
			1	0.48	25				30	8		--	18
			3	0.58	62								
			(399.3) 57.8			100			78	3.55		11	
			2	0.78	28				35				
			(427.2) 85.7			100			73	9.35		11	
			2	0.58	27								
			(424.7) 83.2			100			73	--		10	
			2	0.38	26								
			End of Boring @ -39.0'			-40							
			3	0.78	22								
			5	1.48	22								

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
 Qu = Unconfined Compressive Strength in tons/sq.ft.
 w = Water Content - percentage of oven dry weight-%
 B = Bulge Failure
 S = Shear Failure
 E = Estimated Value
 P = Penetrometer

BORING-1

HOLCOMB FOUNDATION ENGINEERING INC.
 P.O. Box 88 618-529-5262
 Carbondale, Il. 62903 618-457-8991 fax Page 1 of 2

Bridge Foundation Boring Log

Project: H-13203 Bridge Co. Rd 400E over Rayse Creek Date: 9/17/2013
 Section: Station Bored by: J. Carter
 Structure: SN 041-3170 County: Jefferson Checked By: T. Holcomb

Boring No.	Station	Offset	Elevation	N	Qu tsf	w	Surface Water Elev.						
							Elevation	N	Qu tsf				
2			0				Ground Water Elev. During Drilling 75.7				clay to silt (continued)		
			12	2.08	21			25	1	--		27	
			(414.2) 75.7										
			15	--	8				6	1.28		23	
			(432.2) 90.7										
			2	0.68	26				30	5		0.88	24
			(422.2) 85.7										
			5	1.25	26								
			3	1.05	23								
			(427.2) 85.7										
			2	0.38	28								
			(424.7) 83.2										
			3	1.05	25								
			(401.2) 59.7						40	14		1.08	16
			(399.2) 57.7										
			2	0.85	26								
			(397.2) 55.7						100	6		--	13
			2	0.78	24								

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
 Qu = Unconfined Compressive Strength in tons/sq.ft.
 w = Water Content - percentage of oven dry weight-%
 B = Bulge Failure
 S = Shear Failure
 E = Estimated Value
 P = Penetrometer

BORING-2

HOLCOMB FOUNDATION ENGINEERING INC.
 P.O. Box 88 618-529-5262
 Carbondale, Il. 62903 618-457-8991 fax Page 2 of 2

Bridge Foundation Boring Log

Project: H-13203 Bridge Co. Rd 400E over Rayse Creek Date: 9/17/2013
 Section: Station Bored by: J. Carter
 Structure: SN 041-3170 County: Jefferson Checked By: T. Holcomb

Boring No.	Station	Offset	Elevation	N	Qu tsf	w	Surface Water Elev.						
							Elevation	N	Qu tsf				
2			0				Ground Water Elev. During Drilling 75.7				coal (continued)		
			(391.7) 53.2										
			Gray Sandy SHALE	52.7	2'	- 11'							
			End of Boring @ -46.5'										
			End of Boring @ -46.5'										
			End of Boring @ -46.5'										
			End of Boring @ -46.5'										
			End of Boring @ -46.5'										
			End of Boring @ -46.5'										
			End of Boring @ -46.5'										
			End of Boring @ -46.5'										

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
 Qu = Unconfined Compressive Strength in tons/sq.ft.
 w = Water Content - percentage of oven dry weight-%
 B = Bulge Failure
 S = Shear Failure
 E = Estimated Value
 P = Penetrometer

BORING-2