

11-4-2016 LETTING ITEM 108

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED  
SURFACE TRANSPORTATION/BRIDGE PROGRAM

TR 366 (2900E) OVER ROCK CREEK  
SECTION 12-08115-00-BR  
PROJECT NO. BROS-0067 (163)  
HANCOCK COUNTY  
FOUNTAIN GREEN TOWNSHIP ROAD DISTRICT  
JOB NO. C-96-213-16

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-08115-00-BR	Hancock	32	1
ILLINOIS CONTRACT NO. 93693				

Job No. C-96-213-16

INDEX OF SHEETS

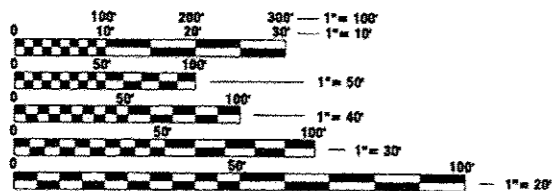
- 1 COVER SHEET
- 2 GENERAL NOTES
- 3-5 SUMMARY OF QUANTITIES
- 6 TYPICAL SECTIONS
- 7-8 SCHEDULE OF QUANTITIES
- 9 ALIGNMENT, TIES, AND BENCHMARKS
- 10 ROADWAY PLAN AND PROFILE
- 11 TRAFFIC CONTROL
- 12 EROSION AND SEDIMENT CONTROL PLANS
- 13-20 STRUCTURE PLANS
- 21 BORING LOGS
- 22 SPECIAL DETAIL SHEETS
- 23-32 CROSS SECTIONS

HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 515001-03 NAME PLATE FOR BRIDGES
- 601101-02 CONCRETE HEADWALL FOR PIPE UNDERDRAINS
- 630001-10 STEEL PLATE BEAM GUARDRAIL
- 630301-06 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 665001-02 WOVEN WIRE FENCE
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 725001 OBJECT AND TERMINAL MARKERS
- 701901-05 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

DESIGN DESIGNATION

FUNCTIONAL CLASSIFICATION = LOCAL ROAD  
DESIGN SPEED = 20 MPH  
CURRENT ADT (2016) = 25  
DESIGN YEAR ADT (2037) = 25



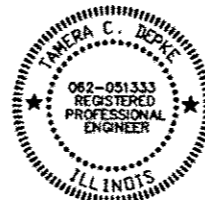
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

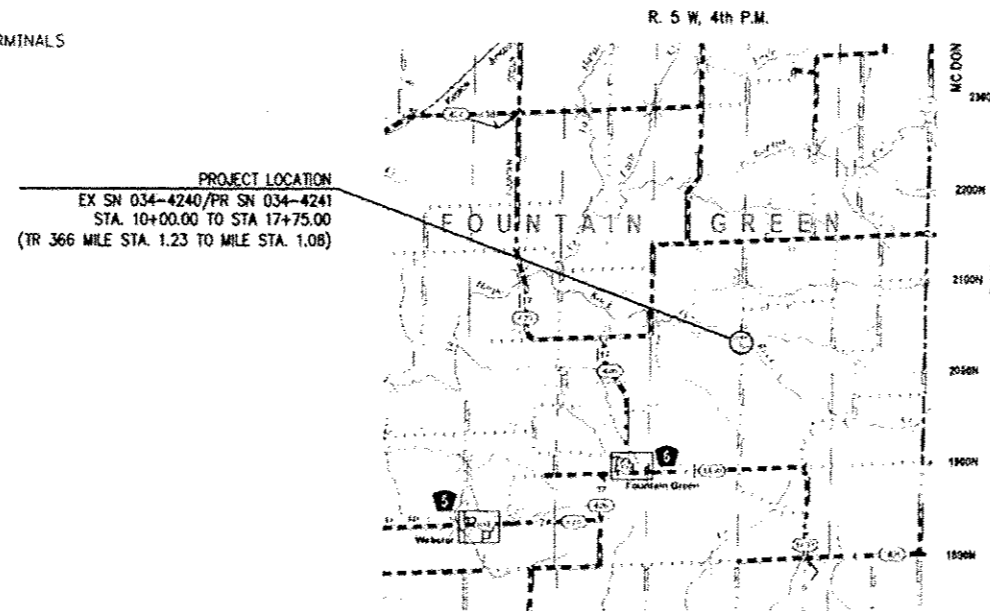
CONTRACT NO.

PLANS PREPARED BY:  
**PSBA**

POEPPING, STONE, BACH & ASSOCIATES, INC.  
100 SOUTH 54TH STREET  
PH.: (217) 223-4805  
E-MAIL: PSBA@PSBA.COM  
QUINCY, IL 62306  
FAX: (217) 223-1546  
WWW.PSBA.COM



Tamera C. Depke 05 AUG 16  
TAMERA C. DEPKE REGISTERED PROFESSIONAL ENGINEER DATE  
STATE OF ILLINOIS NO. 062-051333  
LICENSE EXPIRES NOVEMBER 30, 2017



LOCATION MAP

GROSS LENGTH = 775.0 FT. = 0.147 MILE  
NET LENGTH = 775.0 FT. = 0.147 MILE

AGENCY RESPONSIBLE FOR LETTING	
APPROVED	8/5 20 16 <i>Elgin Berry</i> HANCOCK COUNTY HIGHWAY DEPARTMENT, COUNTY ENGINEER
APPROVED	Aug 22 20 16 <i>Jeff Schuler</i> DISTRICT 6 ENGINEER OF LOCAL ROADS & STREETS
APPROVED	August 22 20 16 <i>Ron Debraun</i> DISTRICT ENGINEER OF CONSTRUCTION
RELEASING FOR BID BASED ON LIMITED REVIEW	Aug 22 20 16 <i>Jeffery M. Southern</i> REGION FOUR ENGINEER

**GENERAL NOTES**

1. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB NUMBER LISTED IN THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
2. ACCESS TO ALL ENTRANCES AND SIDE ROADS SHALL BE MAINTAINED AT ALL TIMES.
3. CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING AND MAINTAINING ALL FENCES REMOVED FOR HIS CONVENIENCE TO THE SATISFACTION OF PROPERTY OWNER. TEMPORARY FENCING MUST BE MAINTAINED AT ALL TIMES IN ACTIVE PASTURE AREAS. THIS INCLUDES REPAIRING DAMAGED FENCES IN ACTIVE PASTURE AREAS EXPOSED BY TREE CLEARING AND GRUBBING.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.30 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCE NOTICE IS REQUIRED. ANY DAMAGE TO THE UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE, INCLUDING TEMPORARY REPAIRS WHICH MAY BE REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS.
5. THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTIONS PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVE GROUND UTILITIES, REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
6. ALL OF THE DISTURBED AREAS WITHIN THE RIGHT OF WAY NOT COVERED BY SURFACING MATERIAL SHALL BE SEEDED.
7. CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE AND EROSION PROTECTION FOR THE DURATION OF THIS PROJECT.
8. SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED SHALL BE DETERMINED BY THE ENGINEER.
9. BEFORE ORDERING PIPE CULVERTS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.
10. THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT, AND NO COMPENSATION WILL BE ALLOWED.
11. 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 SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
12. ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM THE NATIONAL GEODETIC VERTICAL DATUM OF 1988 (NGVD88).
13. THE CONTRACTOR SHALL PROTECT TREES FROM DAMAGE DUE TO HIS OPERATIONS.
14. STATION REFERENCES ARE TO THE ROADWAY CENTERLINE OR BASELINE.
15. ALL DETAILS IN THE PLANS SHALL GOVERN CONSTRUCTION OF THIS PROJECT, AND IN CASE OF CONFLICT WITH ANY STANDARD DRAWINGS INCLUDED, THE SAID DETAILS SHALL TAKE PRECEDENCE AND GOVERN.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING THE REQUIREMENTS OF THE NPDES & STORM WATER PERMIT FOR CONSTRUCTION ACTIVITY FOR THIS PROJECT
17. A NATIONWIDE 404 PERMIT HAS BEEN ISSUED FOR THIS PROJECT AND THE CONDITIONS OF THAT PERMIT MUST BE ADHERED TO.
18. ALL WASTE OR UNDESIRABLE MATERIALS AS IDENTIFIED BY THE ENGINEER SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY AT THE CONTRACTORS' EXPENSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES, REGULATIONS AND ORDINANCES PERTAINING TO WASTE DISPOSAL.
19. SURPLUS EXCAVATED MATERIAL SHALL BE PLACED AS DIRECTED BY THE ENGINEER WITHIN THE RIGHT-OF-WAY.
20. EXCAVATION FOR RIPRAP PLACEMENT IS NOT PAID FOR SEPARATELY, BUT IS INCLUDED IN THE COST OF STONE RIPRAP OF THE SIZE AND TYPE SPECIFIED.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE THE PLAN QUANTITIES:

AGGREGATE SURFACES	2.05 TON/CU YD
AGGREGATE BASE COURSE, TYPE B	2.05 TON/CU YD
RIPRAP	1.50 TON/CU YD
AGGREGATE DITCH CHECKS	1.75 TON/CU YD


**COMMITMENTS**

TO CONSERVE THE INDIANA AND NORTHERN LONG-EARED BATS, TREES SHALL NOT BE CLEARED FROM APRIL 1 THROUGH SEPTEMBER 30.

TENANT OF HASTEN PROPERTY SHALL BE REIMBURSED BY COUNTY FOR REBUILDING FENCE.

**VARIANCES**

A LEVEL ONE DESIGN VARIANCE FOR FREEBOARD ABOVE DESIGN HIGH WATER IS APPROVED FOR THIS PROJECT.

 <p>POPPING STONE, BACH &amp; ASSOCIATES, INC. ARCHITECTS ENGINEERS PLANNERS SURVEYORS</p>	USER NAME *	DESIGNED - ---	REVISED - ---	<p><b>HANCOCK COUNTY HIGHWAY DEPARTMENT</b> 101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321 (217)357-3155</p>	<p><b>GENERAL NOTES</b> <b>TR 366 (2900E)</b></p>	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE *	CHECKED - ---	REVISED - ---			366	12-08115-00-BR	HANCOCK	32	2
	PLOT DATE *	DRAWN - ---	REVISED - ---			CONTRACT NO. 93693				
		CHECKED - ---	REVISED - ---			SHEET NO. 1 OF 1 SHEETS				
						ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE
				0011	0011
				RURAL	S.N. 034-4241
20100500	TREE REMOVAL, ACRES	ACRE	0.5	0.5	
20200100	EARTH EXCAVATION	CU YD	2641	2641	
20300100	CHANNEL EXCAVATION	CU YD	122		122
25000200	SEEDING, CLASS 2	ACRE	1.1	1.1	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	117	117	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	117	117	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	117	117	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	2.6	2.6	
25100115	MULCH, METHOD 2	ACRE	1.3	1.3	
25100630	EROSION CONTROL BLANKET	SQ YD	1340	1340	
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	13	13	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	260	260	
28000315	AGGREGATE DITCH CHECKS	TON	74	74	
28000400	PERIMETER EROSION BARRIER	FOOT	945	945	

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE
				0011	0011
				RURAL	S.N. 034-4241
28000500	INLET AND PIPE PROTECTION	EACH	2	2	
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	114	114	
28001200	TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	600	600	
28100207	STONE RIPRAP, CLASS A4	TON	951	681	270
28200200	FILTER FABRIC	SQ YD	1370	1021	349
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	742	742	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	96		96
50300225	CONCRETE STRUCTURES	CU YD	33.4		33.4
50300280	CONCRETE ENCASEMENT	CU YD	18.2		18.2
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	2142		2142
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3920		3920
△ 50900205	STEEL RAILING, TYPE S1	FOOT	163		163
51201600	FURNISHING STEEL PILES HP12X53	FOOT	180		180

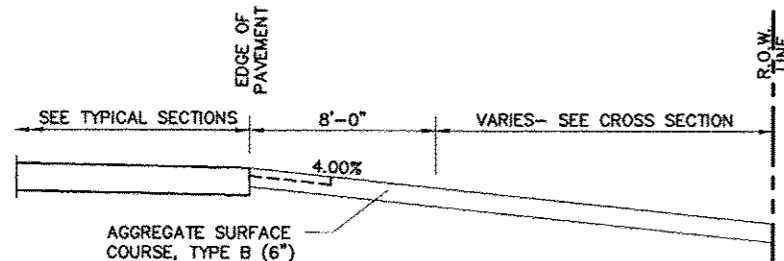
△ SPECIALTY ITEMS

SUMMARY OF QUANTITIES				CONSTRUCTION CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	BRIDGE
				0011	0011
				RURAL	S.N. 034-4241
51202305	DRIVING PILES	FOOT	180		180
51203600	TEST PILE STEEL HP12X53	EACH	2		2
51500100	NAME PLATES	EACH	1		1
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	50	50	
542D0235	PIPE CULVERTS, CLASS D, TYPE 1 30"	FOOT	64	64	
△ 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2	2	
△ 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2	2	
△ 66500105	WOVEN WIRE FENCE, 4'	FOOT	430	430	
67100100	MOBILIZATION	LSUM	1	1	
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	LSUM	1	1	
72000100	SIGN PANEL - TYPE 1	SQ FT	40.5	40.5	
△ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2	
73000100	WOOD SIGN SUPPORT	FOOT	60	60	
* K1005421	SEEDING (SPECIAL)	ACRE	0.2	0.2	
* Z0065796	RIPRAP SLURRY	SQ YD	195	195	

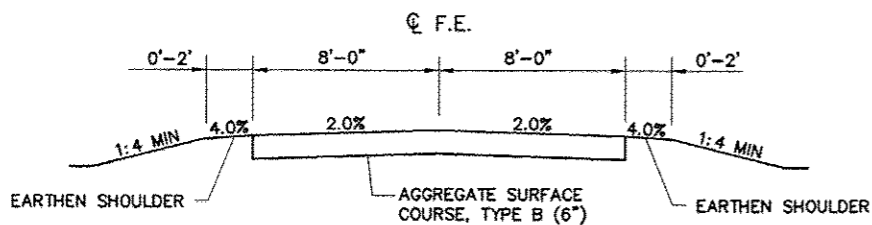
△ SPECIALTY ITEMS

TR 366		TR 366			
Station	Left	Right	Station		
13+74	2.00%	2.00%	16+91	2.00%	2.00%
13+46	0.00%	2.00%	16+64	2.00%	0.00%
13+18	2.00%	2.00%	16+37	2.00%	2.00%
12+90	4.00%	4.00%	16+10	4.00%	4.00%
11+81	4.00%	4.00%	15+50	4.00%	4.00%
11+53	2.00%	2.00%	15+23	2.00%	2.00%
11+25	0.00%	2.00%	14+96	2.00%	0.00%
10+97	2.00%	2.00%	14+69	2.00%	2.00%

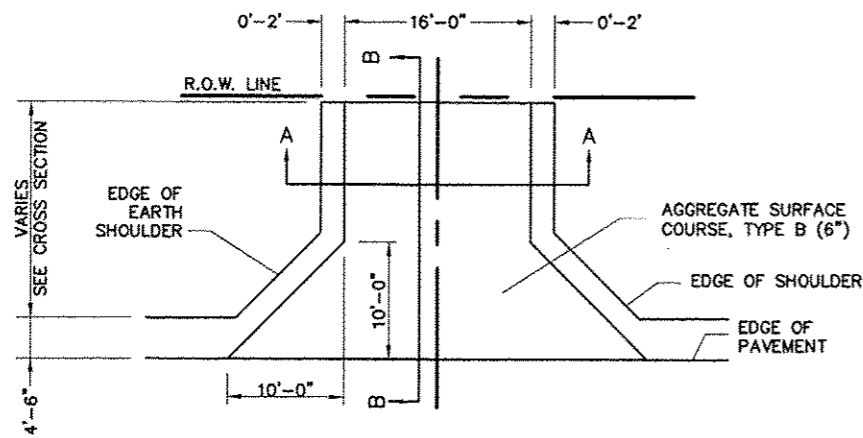
**SUPERELEVATION TRANSITION**



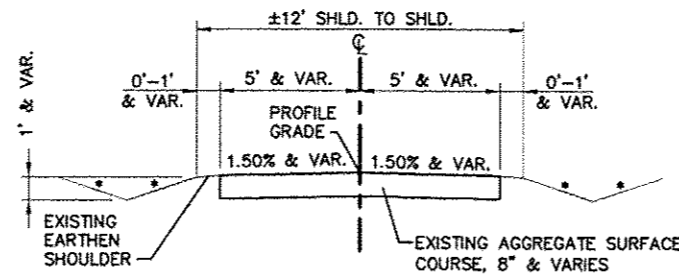
**SECTION B-B**



**SECTION A-A: ENTRANCE TYPICAL SECTION**



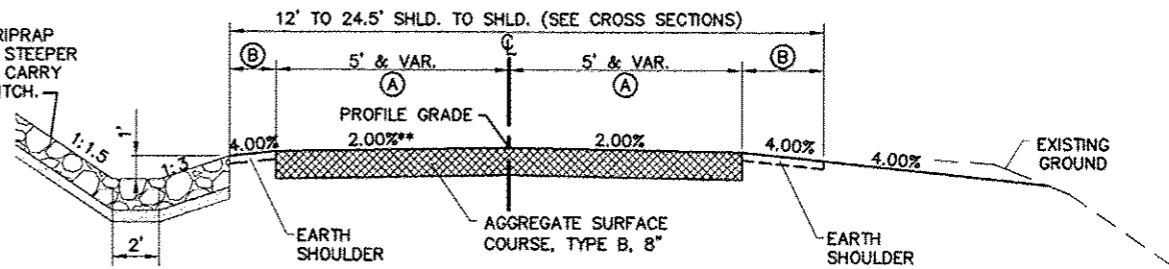
**ENTRANCE TYPICAL SECTION**



**EXISTING TYPICAL SECTION**

STA. 10+00.00 TO STA. 17+75.00  
BRIDGE OMISSION: STA. 13+91 TO STA. 14+59  
\* SIDE SLOPES VARY - SEE CROSS SECTIONS

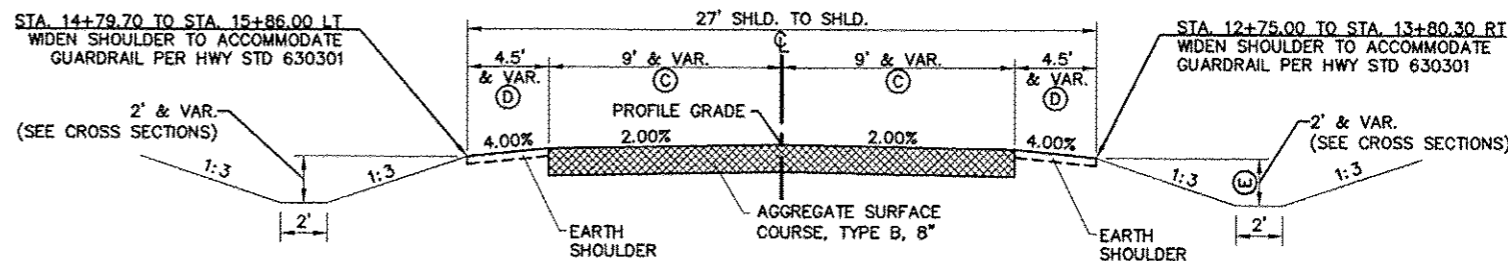
CLASS A4 RIPRAP ON SLOPES STEEPER THAN 1:3. CARRY THROUGH DITCH.



**PROPOSED TYPICAL SECTION**

STA. 10+00.00 TO STA. 11+50.00  
\*\* SUPERELEVATION BEGINS STA. 10+97.00 LT

- (A) 100 FT SURFACE WIDTH TRANSITION: STA. 10+50.00, W = 5 FT TO STA. 11+50.00, W = 9 FT
- (B) SHOULDER WIDTH TRANSITION: STA. 10+00.00 TO STA. 10+50.00, W = 1.0 FT  
100 FT SHOULDER WIDTH TRANSITION: LEFT: STA. 10+50.00 LT, W = 1.0 FT TO STA. 11+50.00 LT, W = 2.0 FT  
RIGHT: STA. 10+50.00 RT, W = 1.0 FT TO STA. 11+50.00 RT, W = 4.5 FT

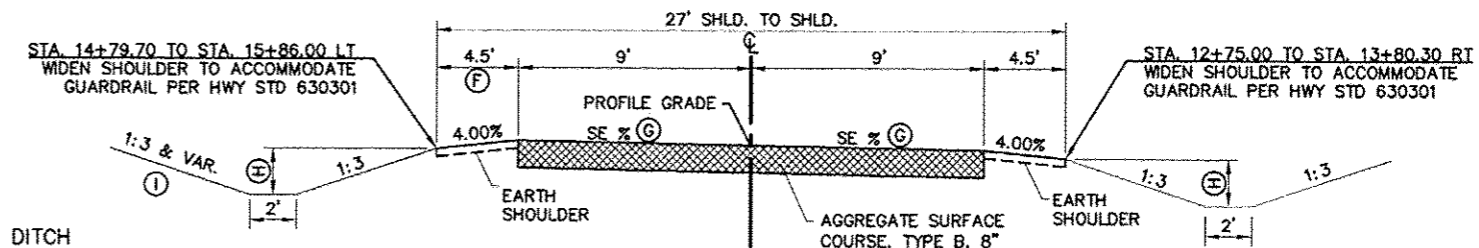


**PROPOSED TYPICAL TANGENT SECTION**

BRIDGE OMISSION: STA. 13+89.25 TO STA. 14+70.75 BK-BK ABUTMENT

LEFT: STA. 13+74.00 TO STA. 15+23.00  
STA. 16+37.00 TO STA. 17+75.00  
RIGHT: STA. 11+50.00 TO STA. 11+53.00  
STA. 13+18.00 TO STA. 14+69.00  
STA. 16+91.00 TO STA. 17+75.00

- (C) 100 FT SURFACE WIDTH TRANSITION: STA. 16+75.00, W = 9 FT TO STA. 17+75.00 W = 5 FT
- (D) 100 FT SHOULDER WIDTH TRANSITION: STA. 16+75.00, W = 4.5 FT TO STA. 17+75.00 W = 1 FT
- (E) STA. 11+50.00 RT TO 11+53.00 RT, DITCH DEPTH = 1.5 FT

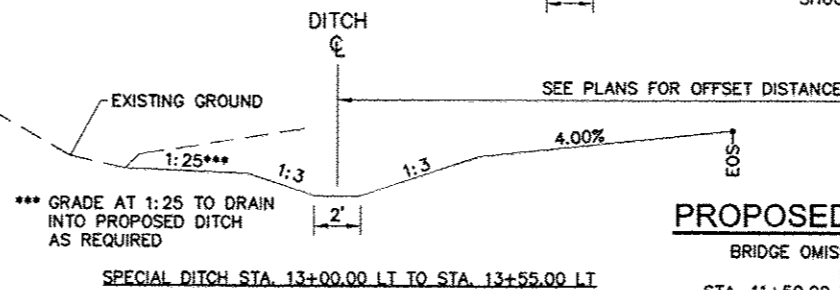


**PROPOSED TYPICAL SUPERELEVATED SECTION**

BRIDGE OMISSION: STA. 13+89.25 TO STA. 14+70.75 BK-BK ABUTMENT

LEFT: STA. 11+50.00 TO STA. 13+74.00  
STA. 15+23.00 TO STA. 16+37.00  
RIGHT: STA. 11+53.00 TO STA. 13+18.00  
STA. 14+69.00 TO STA. 16+91.00

- (F) 35 FT SHOULDER WIDTH TRANSITION: STA. 12+90.00 LT, W = 2.0 FT TO STA. 13+25.00 LT, W = 4.5 FT
- (G) SEE SUPERELEVATION DETAIL FOR SUPERELEVATION RATE AND TRANSITION.
- (H) STANDARD DITCH DEPTH IS 2 FT AND VARIES. SEE CROSS SECTIONS. STA. 10+50.00 LT TO STA. 12+00.00 LT, DITCH DEPTH = 1.0 FT  
STA. 11+53.00 RT TO STA. 13+00.00 RT, DITCH DEPTH = 1.5 FT
- (I) STA. 11+50.00 LT TO STA. 12+80.00 LT, BACK SLOPE = 1:1.5 RIPRAP (CLASS B4) BACKSLOPES STEEPER THAN 1:3.



\*\*\* GRADE AT 1:25 TO DRAIN INTO PROPOSED DITCH AS REQUIRED

**PSBA**

USER NAME	DESIGNED	REVISIONS
PLOT SCALE	CHECKED	REVISIONS
PLOT DATE	DRAWN	REVISIONS
	CHECKED	REVISIONS

**HANCOCK COUNTY HIGHWAY DEPARTMENT**  
101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321  
(217)357-3155

**TYPICAL SECTIONS**  
TR 366 (2900E)

SHEET NO. 1 OF 1 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-0815-00-BR	HANCOCK	32	6

CONTRACT NO. 93693  
ILLINOIS FED. AID PROJECT

TREE REMOVAL		
STATION	SIDE	ACRES
STA 10+00 TO STA 13+70	LT	0.16
STA 10+50 TO STA 13+80	RT	0.17
STA 14+00 TO 14+50	LT	0.04
STA 14+60 TO 15+25	LT	0.03
<b>TOTAL</b>		<b>0.40</b>
<b>USE</b>		<b>0.50</b>

NOTE: TREE REMOVAL ASSUMED FROM TREE LINE TO ROW, EXCEPT STA. 10+50 RT TO STA. 12+00 RT, TREE REMOVAL ASSUMED FROM TREE LINE TO SLOPE LIMITS.

CHANNEL EXCAVATION	
STATION TO STATION	CHANNEL EXCAVATION CU YD
STA 13+89.25 TO STA 14+70.75	122

EARTH EXCAVATION				
STATION TO STATION	EARTH EXCAVATION	EXCAVATION ADJUSTED FOR SHRINKAGE (EXCAV. X 0.75)	EMBANKMENT	BALANCE WASTE (+) BORROW (-)
	CU YD	CU YD	CU YD	CU YD
<b>TR 366</b>				
STA 10+00.00 to STA 13+89.25	2,220	1,665	216	1,449
BRIDGE OMISSION: STA 1389.25 TO STA 1470.75				
STA 14+70.75 TO STA 17+75.00	421	316	1,161	-846
<b>FE STA 16+50.32 LT AND FEED BUNK</b>				
STA 16+50.32 LT	0	0	323	(323)
<b>TOTAL</b>	<b>2,641</b>	<b>1,980</b>	<b>1,699</b>	<b>281</b>
<b>USE</b>	<b>2,641</b>			

NOTE 1: A 25% SHRINKAGE FACTOR WAS USED.  
NOTE 2: EXCAVATION FOR RIPRAP PLACEMENT IS NOT PAID FOR SEPARATELY, BUT IS INCLUDED IN THE COST OF STONE RIPRAP OF THE CLASS SPECIFIED.

PERIMETER EROSION BARRIER		
LOCATION	SIDE	FOOT
STA 10+00 TO STA 13+85	LT	435
STA 10+00 TO STA 13+80	RT	370
STA 14+10 TO STA 14+30	LT	50
STA 14+30 TO 14+45	RT	40
STA 14+90 TO 15+40	LT	50
<b>TOTAL</b>		<b>945</b>

INLET AND PIPE PROTECTION		
LOCATION	SIDE	EACH
STA 13+55.00	LT	1
STA 16+75.29	RT	1
<b>TOTAL</b>		<b>2</b>

SEEDING SCHEDULE									
STATION TO STATION	SIDE	SEEDING CLASS 2	SEEDING (SPECIAL)	NITROGEN FERT NUTR	PHOS FERT NUTR	POTAS FERT NUTR	AGR GROUND LIMESTONE	MULCH METH 2	TEMP EROSION SEEDING
		ACRE	ACRE	LB	LB	LB	TON	ACRE	LB
STA 10+00.00 TO STA 14+30.00	LT	0.2		18	18	18	0.4	0.2	20
STA 10+00.00 TO STA 13+80.00	RT	0.3		27	27	27	0.6	0.3	30
STA 14+10.00 TO STA 17+75.00	RT	0.3	0.2	45	45	45	1.0	0.5	50
STA 14+70.00 TO STA 17+75.00	LT	0.3		27	27	27	0.6	0.3	30
<b>TOTAL</b>		<b>1.1</b>	<b>0.2</b>	<b>117</b>	<b>117</b>	<b>117</b>	<b>2.6</b>	<b>1.3</b>	<b>130</b>
<b>USE</b>		<b>1.1</b>	<b>0.2</b>	<b>117</b>	<b>117</b>	<b>117</b>	<b>2.6</b>	<b>1.3</b>	<b>260</b>

\* USE (2 X) TEMPORARY EROSION CONTROL SEEDING FOR RESEEDING TWICE DURING GROWING SEASON (MARCH 1 - NOVEMBER 30)

EROSION CONTROL BLANKET			
LOCATION	SIDE	EROSION CONTROL BLANKET	DESCRIPTION
		SQ YD	
STA 12+00 TO 13+00	RT	175	EXISTING SLOPE AFTER TREE REMOVAL
STA 13+00 TO 13+90	RT	225	1:3 FORESLOPE
STA 14+30 TO STA 16+10	RT	510	1:3 FORESLOPE
STA 14+70 TO 16+50	LT	300	1:3 FORESLOPE
STA 16+10 TO STA 16+40	RT	130	1:3 FORESLOPE & BACKSLOPE ALONG FEED BUNK
<b>TOTAL</b>		<b>1,340</b>	

AGGREGATE DITCH CHECKS							
LOCATION	TYPE	SIDE	FORE SLOPE	DITCH WIDTH (FOOT)	BACK SLOPE	EARTH EXC - EROS CONT (CY)	AGGREGATE DITCH CHECKS (TON)
10+60	FLUSH AGG DITCH CHECK	LT	1:1.5	2	1:3	1.0	1.8
10+80	FLUSH AGG DITCH CHECK	LT	1:1.5	2	1:3	1.0	1.8
11+00	FLUSH AGG DITCH CHECK	LT	1:1.5	2	1:3	1.0	1.8
11+20	FLUSH AGG DITCH CHECK	LT	1:1.5	2	1:3	1.0	1.8
11+40	FLUSH AGG DITCH CHECK	LT	1:1.5	2	1:3	1.0	1.8
11+60	FLUSH AGG DITCH CHECK	LT	1:1.5	2	1:3	1.0	1.8
11+80	FLUSH AGG DITCH CHECK	LT	1:1.5	2	1:3	1.0	1.8
12+00	FLUSH AGG DITCH CHECK	LT	1:1.5	2	1:3	1.0	1.8
12+20	FLUSH AGG DITCH CHECK	LT	1:1.5	2	1:3	1.0	1.8
12+40	FLUSH AGG DITCH CHECK	LT	1:1.5	2	1:3	1.0	1.8
12+60	FLUSH AGG DITCH CHECK	LT	1:1.5	2	1:3	1.0	1.8
12+80	FLUSH AGG DITCH CHECK	LT	1:1.5	2	1:3	1.0	1.8
13+00	2' AGG DITCH CHECK	LT	1:3	2	1:3		7.1
13+20	2' AGG DITCH CHECK	LT	1:3	2	1:3		7.1
13+40	2' AGG DITCH CHECK	LT	1:3	2	1:3		7.1
13+80	2' AGG DITCH CHECK	RT	1:3	2	1:3		7.1
14+30	2' AGG DITCH CHECK	LT	1:3	2	1:3		7.1
14+30	2' AGG DITCH CHECK	RT	1:3	2	1:3		7.1
14+90	2' AGG DITCH CHECK	LT	1:3	2	1:3		7.1
<b>TOTAL</b>						<b>13.0</b>	<b>73.1</b>
<b>USE</b>						<b>13</b>	<b>74</b>

STONE RIPRAP							
STATION TO STATION	SIDE	AVG. LENGTH	AVG. WIDTH SLOPE MEAS.	DEPTH	AREA	FILTER FABRIC	STONE RIPRAP, CLASS A4
		FT	FT				TON
STA 10+00 TO STA 13+00	LT	300	21.0	1.33	6300	700	467
STA 11+50 TO STA 14+00	RT	240	8.3	1.33	1992	221	148
STA 13+00 TO STA 13+55	LT	70	8.3	1.33	581	65	43
STA 13+55	LT	10	4.5	1.33	45	5	3
STA 14+18 TO STA 14+35	LT	19	8.3	1.33	158	18	12
STA 14+25 TO STA 14+30	RT	6	8.3	1.33	50	6	4
STA 14+75 TO STA 14+80	LT	7	8.3	1.33	58	6	4
<b>TOTAL</b>						<b>1,021</b>	<b>681</b>

RIPRAP SLURRY					
STATION TO STATION	SIDE	AVG. LENGTH	AVG. WIDTH SLOPE MEAS.	AREA	RIPRAP SLURRY
		FT	FT		SQ YD
STA 10+50 TO STA 13+00	LT	250	7	1750	195
<b>TOTAL</b>					<b>195</b>

RIPRAP SLURRY APPLIED ALONG DITCH BOTTOM AND UP SIDES TO DEPTH OF 1 FT.



USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

**HANCOCK COUNTY HIGHWAY DEPARTMENT**  
101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321  
(217)357-3155

**SCHEDULE OF QUANTITIES**  
**TR 366 (2900E)**

SHEET NO. 1 OF 2 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-08115-00-BR	HANCOCK	32	7
			CONTRACT NO.	93693
ILLINOIS FED. AID PROJECT				

AGGREGATE SURFACE COURSE TYPE B					
LOCATION		LENGTH	AVE. WIDTH	DEPTH	AGGREGATE SURFACE COURSE TYPE B
FROM STA.	TO STA.	FT	FT	IN	TON
<b>TR 366</b>					
10+00	10+50	50	10	8	25.3
10+50	11+50	100	14	8	70.9
11+50	13+89.25	239.25	18	8	218.0
14+70.75	16+75	204.25	18	8	186.1
16+75	17+75	100	14	8	70.9
<b>FE 13+65 LT</b>					
13+65, 9' TO 19' LT		10	26	6	9.9
13+56, 19' LT TO 13+89, 53' LT		41	16	6	24.9
13+89, 53' LT TO 14+00, 69' LT		20	13	6	9.9
<b>FE 16+50.32 RT</b>					
9' TO 19' RT		10	26	6	9.9
19' TO 110' RT		91	16	6	55.3
FEED BUNK		40	40	6	60.7
<b>TOTAL</b>					<b>741.6</b>
<b>USE</b>					<b>742</b>

TEMPORARY EROSION CONTROL BLANKET						
STATION TO STATION	SIDE	AVG. LENGTH	AVG. WIDTH SLOPE MEAS.	TEMP EROSION CONTROL BLANKET	TEMP HD EROSION CONTROL BLANKET	DESCRIPTION
		FT	FT	FT	SQ FT	
STA 10+00 TO STA 13+00	LT	300	18		600	ON 1:1.5 BACKSLOPE AFTER CLEARING PRIOR TO RIPRAP PLACEMENT
STA 11+50 TO STA 13+30	RT	170	6	114		
<b>TOTAL</b>				<b>114</b>	<b>600</b>	

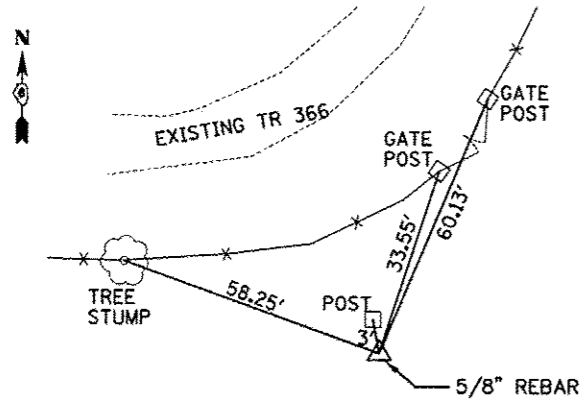
REMOVAL OF EXISTING STRUCTURES			
STRUCTURE NUMBER	LOCATION	STRUCTURE TYPE	QUANTITY
			EACH
1	STA 14+25.00	PORTION OF EX CONCRETE SUBSTRUCTURE	1

DRAINAGE SCHEDULE			
LOCATION		PIPE CULVERTS	
		CLASS D TY1	CLASS D TY1
STATION	OFFSET	15" (FT)	30" (FT)
13+86.83	42.33 LT		64
16+50.32	25.57 RT	50	
<b>TOTAL</b>		<b>50</b>	<b>64</b>

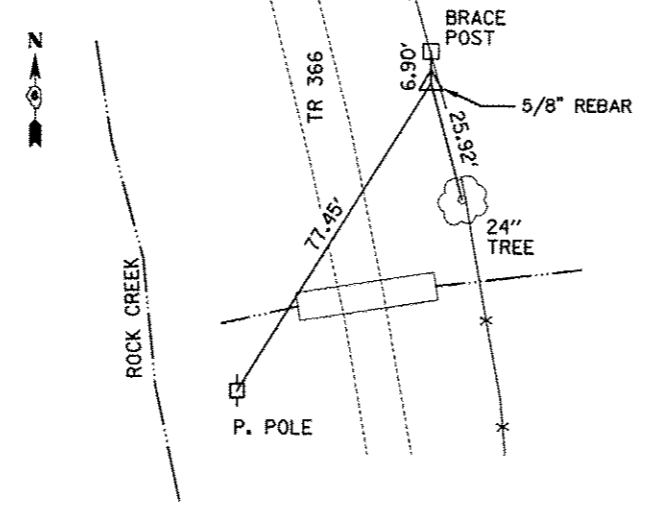
GUARDRAIL SCHEDULE			
STATION - STATION	TRAF. BARR. TERM. TY 1 (SPL) FLARED	TRAF. BARR. TERM, TY SA	TERMINAL MARKER -DA
RT STA 13+18 TO STA 13+81	1	1	1
LT STA 14+79 TO STA 15+42	1	1	1
<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>2</b>

WOVEN WIRE FENCE 4'	
STATION - STATION	FT
RT STA 10+00 TO STA 13+73	430

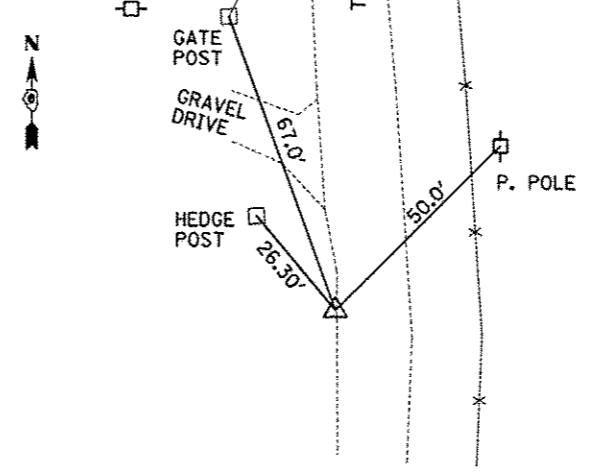




**CP-2 5/8" REBAR**  
 CONTROL POINT  
 N 139559.100 E 2080242.002  
 ELEV. 603.78



**CP-3 5/8" REBAR**  
 CONTROL POINT  
 N 1396200.974, E 2080278.181  
 ELEV. 602.25



**CP-4 5/8" REBAR**  
 CONTROL POINT  
 N 1394781.456, E 2080085.798  
 ELEV. 665.83

**BEGIN PROJECT STA. 10+00.00**  
 N 1395265.5845, E 2080001.2315

**END PROJECT STA. 17+75.00**  
 N 1395885.8944, E 2080290.7498

**CURVE 1**  
 PC STA. 11+52.85  
 N 1395417.7282, E 2079986.5541

PI STA. 12+54.77  
 N 1395519.1763, E 2079976.7674

PT STA. 13+31.89  
 N 1395565.6385, E 2080067.4798

**CURVE 2**  
 PC STA. 15+09.95  
 N 1395646.8101, E 2080225.9583

PI STA. 15+88.58  
 N 1395682.6547, E 2080295.9409

PT STA. 16+50.32  
 N 1395761.2573, E 2080293.9332

**BENCHMARKS**

BM 1 - ELEV = 605.23  
 STA. 16+05, 49.0' LT, RR SPIKE IN POWER POLE



USER NAME *	DESIGNED - ---	REVISED - ---
	CHECKED - ---	REVISED - ---
PLOT SCALE *	DRAWN - ---	REVISED - ---
PLOT DATE *	CHECKED - ---	REVISED - ---

**HANCOCK COUNTY HIGHWAY DEPARTMENT**  
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**ALIGNMENT, TIES, AND BENCHMARKS**  
**TR 366 (2900E)**

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-08115-00-BR	HANCOCK	32	9

SHEET NO. 1 OF 1 SHEETS

ILLINOIS FED. AID PROJECT CONTRACT NO. 93693

BENCHMARK 1: ELEV. 605.23, STA. 16+05, 49.0' LT, RAILROAD SPIKE IN POWER POLE.

EX SN 034-4240, STA. 14+25.00 @

THE EXISTING STRUCTURE HAS BEEN REMOVED BY THE TOWNSHIP. IT WAS A 3-SPAN (14'-0", 40'-0", 14'-0") HAVING A PONY TRUSS CENTER SPAN AND STEEL STRINGER END SPANS, 68'-0" BK-BK ABUTMENTS, WOOD DECK ROADWAY, 0' SKEW

REMOVAL OF EXISTING STRUCTURES CONSISTS OF REMOVING ANY PORTION OF THE REMAINING SUBSTRUCTURE THAT INTERFERES WITH THE PROPOSED CONSTRUCTION.

MARY EVELYN EVANS REVOCABLE LIVING TRUST NE 1/4, SE 1/4 SEC. 22 #2013-3219

PR SN 034-4240, STA. 14+30.00 @  
SINGLE SPAN PCC DECK BEAM BRIDGE  
81'-6" BK-BK ABUTMENTS  
27'-0" ROADWAY, 30' SKEW

PI STA 12+54.77  
I = 68°23'20.8"  
D = 38°11'49.9"  
R = 150.00'  
T = 101.92'  
L = 179.04'  
e = 4.00% (20 MPH)  
TR = 27'  
SE RUN = 84'  
PC STA 11+52.85  
PT STA 13+31.89

S.E. TRANSITION  
STA 10+97 TO STA 11+81 (67% / 33%)  
STA 12+90 TO STA 13+74 (50% / 50%)

GRADE TO DRAIN TO CULVERT  
3 TON STONE RIPRAP, CL A4 (4.5' X 10')

SPECIAL DITCH LEFT  
STA. 13+00, 24' LT  
STA. 13+55, 50' LT  
(8.3' X 70')

STA. 13+86.83, 42.33' LT  
64" PIPE CULVERT, CLASS D, TYPE 1, 30"  
USFL = 604.47, 13+55, 50' LT  
DSFL = 602.5, 14+18, 35' LT

0.04 ACRES TREE REMOVAL  
STA. 14+00 TO STA. 14+50 LT

12 TON STONE RIPRAP, CL A4  
STA. 14+28 TO STA. 14+35 LT  
(8.3' X 12')

4 TON STONE RIPRAP, CL A4  
STA. 14+75 TO STA. 14+80 LT  
(8.3' X 7')

0.03 ACRES TREE REMOVAL  
STA. 14+60 TO STA. 15+25 LT

TRAFFIC BARRIER TERMINALS, TYPE 1 SPL FLARED & TYPE 5A TYP AT APPROACH CORNERS

16+50.32  
15' LT  
PR SLOPE LIMITS

STA. 17+75.00  
END IMPROVEMENTS  
MATCH EXISTING

17+75.00  
21.5' RT  
MATCH EX ROW

APPARENT ROW BY OCCUPATION

16+75.00  
36.34' RT

STA. 16+50.32  
50' PIPE CULVERT, CLASS D, TYPE 1, 15"  
USFL = 601.24, 16+75.29 23.21' RT  
DSFL = 601.06, 16+29.83, 27.94' RT

16+50.32  
40' RT

16+75.00  
115' RT

PR FEED BUNK  
SEE DETAIL

15+90.00  
42.46' RT  
15+80.00  
60' RT

0.20 ACRES SEEDING (SPECIAL)  
TEMPORARY EASEMENT AREA

AREA OF TREE REMOVAL

SEE SCHEDULES FOR QUANTITIES AND LOCATIONS OF ITEMS NOT SHOWN INCLUDING SEEDING AND EROSION CONTROL BLANKET

0.16 ACRES TREE REMOVAL  
STA. 10+00 TO STA. 13+70 LT

467 TON STONE RIPRAP, CL A4  
STA. 10+00 TO STA. 13+00 LT  
(21' X 300' - INCL. DITCH)

195 SY RIPRAP SLURRY  
STA. 10+50 TO STA. 13+00 LT  
ALONG DITCH (7' X 250')

STA. 11+25.30, 31.42' LT  
EXISTING 10" PIPE TO REMAIN  
(ABANDONED POND OUTLET)  
SHAPE TO DRAIN TO ROAD DITCH  
1 FT DP, 2 FT F.B., 1:2 S.S.

STA. 10+00 LT TO STA. 13+73 LT  
430 FT WOVEN WIRE FENCE  
ALONG PR ROW (EVANS PROPERTY)  
CONNECT TO EXISTING FENCE AT EACH END

SPECIAL DITCH LEFT  
STA. 10+50 TO STA. 12+00  
2 FT F.B., 1 FT DEEP,  
1:3 F.S., 1:1.5 B.S.

10+00.00  
26' LT (MATCH EX ROW)

STA. 10+00.00  
BEGIN IMPROVEMENTS  
MATCH EXISTING

11+00.00  
40' LT

10+00.00  
15' RT (MATCH EX ROW)

STA. 12+75 TO STA. 13+00 LT  
TRANSITION BS FROM 1:1.5 TO 1:3

12+50.00  
40' LT

PR ROW

PR SLOPE LIMITS

12+00.00  
40' RT

0.17 ACRES TREE REMOVAL  
STA. 10+50 TO STA. 13+80 RT

148 TONS STONE RIPRAP, CL A4  
STA. 11+50 TO STA. 14+00 RT  
(8.3' X 240')

SPECIAL DITCH RIGHT  
STA. 11+50 TO STA. 13+00  
2 FT F.B., 1.5 FT DEEP, 1:3 S.S.

STA. 10+50 TO STA. 12+00  
MINIMIZE TREE REMOVAL  
OUTSIDE SLOPE LIMITS

PR SLOPE LIMITS

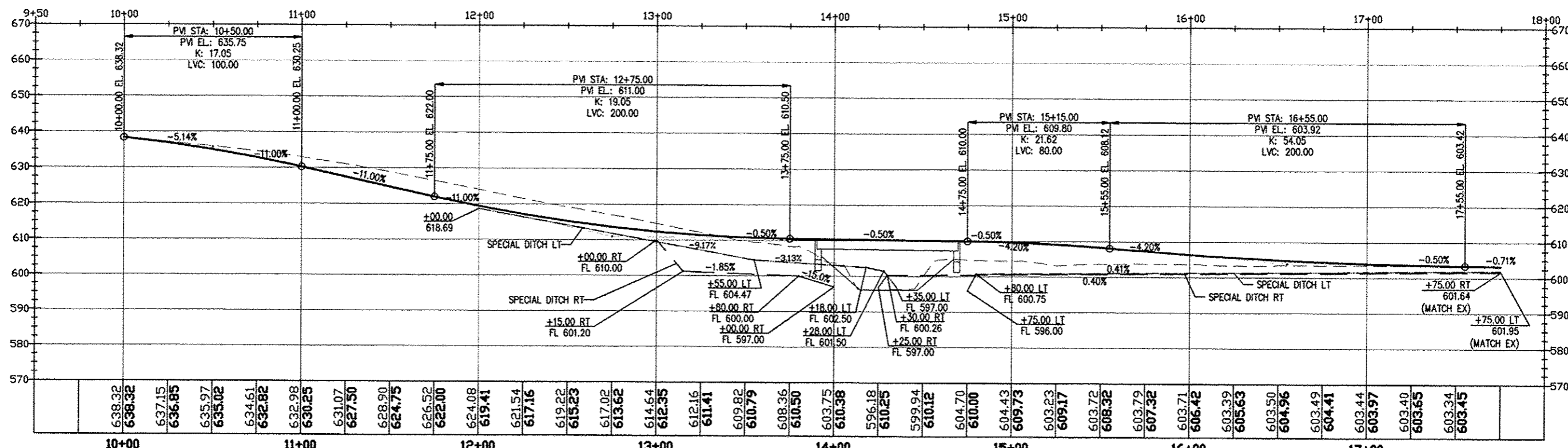
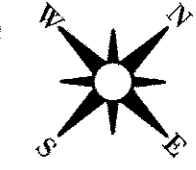
SEE STRUCTURE PLANS FOR  
RIPRAP AT BRIDGE CONE (TYP)

4 TONS STONE RIPRAP, CL A4  
STA. 14+25 TO STA. 14+30 RT (8.3' X 6')

BILLIE L. & CERECE HASTEN  
SW 1/4 SECTION 23  
#2008-0097

PI STA 15+88.58  
I = 64°20'30.8"  
D = 45°50'11.9"  
R = 125.00'  
T = 78.63'  
L = 140.37'  
e = 4.00% (20 MPH)  
TR = 27'  
SE RUN = 81'  
PC STA 15+09.95  
PT STA 16+50.32

S.E. TRANSITION  
STA 14+69 TO STA 15+50 (50% / 50%)  
STA 16+10 TO STA 16+91 (50% / 50%)

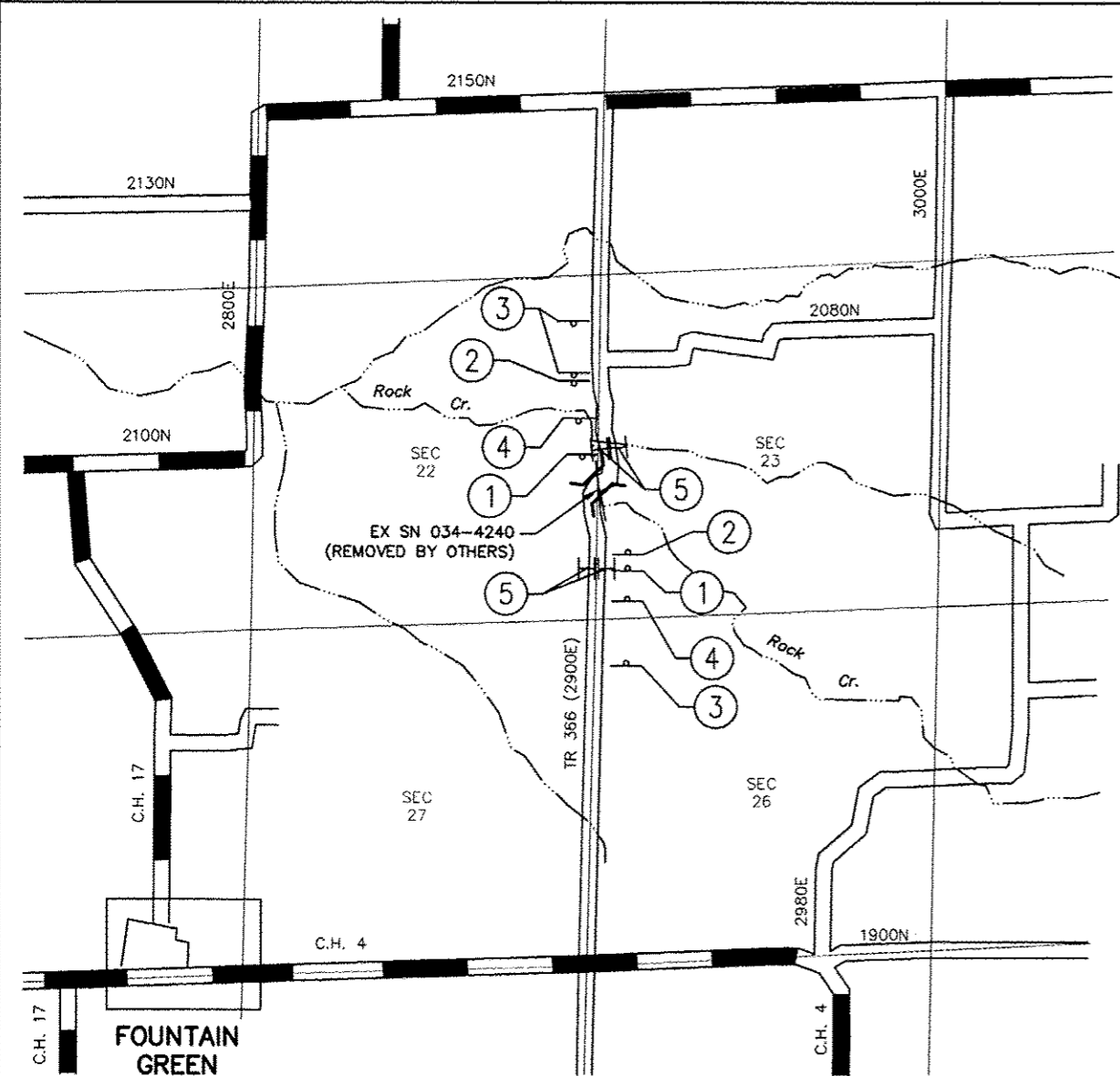


USER NAME	DESIGNED	REVISED
PLOT SCALE	CHECKED	REVISED
PLOT DATE	DRAWN	REVISED
	CHECKED	REVISED

HANCOCK COUNTY HIGHWAY DEPARTMENT  
101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321  
(217)357-3155

ROADWAY PLAN & PROFILE  
TR 366 (2900E)  
SHEET NO. 1 OF 1 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-08115-00-BR	HANCOCK	32	10
CONTRACT NO. 93693			ILLINOIS FED. AID PROJECT	



**LOCATION MAP**

SEC 22 & 23, T6N, R5W, 4TH P.M.

**TRAFFIC CONTROL PLAN**

SEE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE APPLICABLE GUIDELINES CONTAINED IN THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, THESE SPECIAL PROVISIONS, ANY SPECIAL DETAILS AND HIGHWAY STANDARDS CONTAINED HEREIN AND IN THE PLANS.

SPECIAL ATTENTION IS CALLED TO SECTION 701 AND ARTICLES 107.09 AND 107.14 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND AS AMENDED BY THE SUPPLEMENTAL SPECIFICATIONS, RECURRING SPECIAL PROVISIONS, THE SPECIAL PROVISIONS CONTAINED HEREIN, AND THE FOLLOWING HIGHWAY STANDARDS RELATING TO TRAFFIC CONTROL: 701901 BLR 21

**LIMITATIONS OF CONSTRUCTION:** THE CONTRACTOR SHALL COORDINATE THE ITEMS OF WORK IN ORDER TO KEEP HAZARDS AND TRAFFIC INCONVENIENCES TO A MINIMUM, AS SPECIFIED BELOW.

1. TR-366 IS CURRENTLY CLOSED AND SHALL REMAIN CLOSED AT THE VICINITY OF THE BRIDGE DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN ALL THE NECESSARY BARRICADES, CONES, DRUMS, AND LIGHTS FOR THE WARNING AND PROTECTION OF TRAFFIC, AS REQUIRED BY SECTIONS 107 AND 701 OF THE STANDARD SPECIFICATIONS, AND AS MODIFIED.
3. PRIOR TO ANY CONSTRUCTION ACTIVITIES, TYPE III BARRICADES WITH 'ROAD CLOSED' SIGNS (R11-2-4830) IN ACCORDANCE WITH BLR STANDARD 21 SHALL BE PLACED ON THE LIMITS OF IMPROVEMENT ON TR-366, WHEN TOTAL CLOSURE IS REQUIRED.
4. THE CONTRACTOR SHALL NOTIFY THE HANCOCK COUNTY ENGINEER TWO WEEKS PRIOR TO IMPLEMENTING ANY TRAFFIC CONTROL.

**ACCESS TO ADJACENT PROPERTIES**

ACCESS TO ADJACENT COMMERCIAL, PRIVATE, AND FIELD ENTRANCES SHALL BE MAINTAINED AT ALL TIMES. ALL WEATHER ACCESS SHALL BE A MINIMUM TEN (10') FEET WIDE WHERE REQUIRED OR WHEN DIRECTED BY THE ENGINEER. THE CONTRACTOR MAY NOT DEVIATE FROM THIS PROVISION, EXCEPT WITH WRITTEN PERMISSION FROM THE OWNER/TENANT TO CUT OFF ACCESS TO THEIR PROPERTY FOR A SPECIFIC PERIOD OF TIME.

**CONTRACTOR ACCESS**

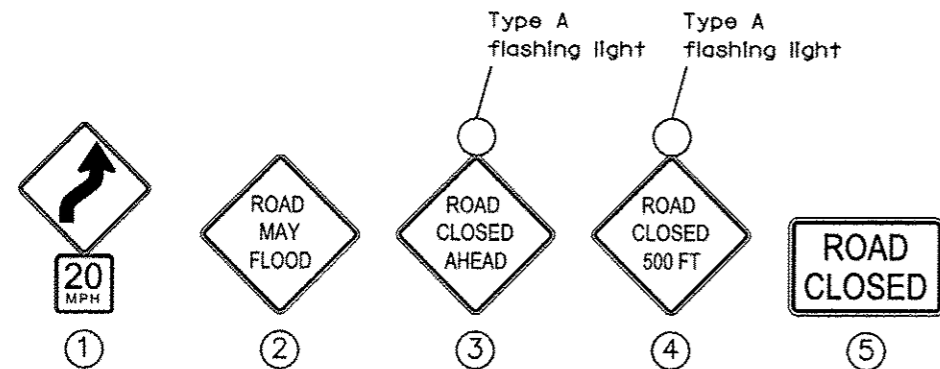
AT ROAD CLOSURE LOCATIONS WHERE TYPE III BARRICADES ARE INSTALLED IN A MANNER THAT WILL NOT ALLOW CONTRACTOR ACCESS TO THE PROJECT WITHOUT RELOCATION OF ONE OR MORE OF THE BARRICADES, THE ARRANGEMENT OF THE BARRICADES AT THE BEGINNING OF EACH WORK DAY MAY BE RELOCATED, WHEN APPROVED BY THE ENGINEER, IN THE MANNER SHOWN ON HIGHWAY STANDARD 701901 FOR ROAD CLOSED TO THROUGH TRAFFIC. 'ROAD CLOSED' SIGNS (R11-2), SUPPLEMENTED BY 'EXCEPT AUTHORIZED VEHICLES' SIGN (R3-1101), SHALL BE MOUNTED ON BOTH THE NEAR-RIGHT AND FAR-LEFT BARRICADE(S). AT THE END OF EACH WORK DAY THE BARRICADES SHALL BE RETURNED TO THEIR IN-LINE POSITIONS. THIS WORK WILL BE INCLUDED IN THE COST OF THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED.

TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21 REQUIRED BY THIS TRAFFIC CONTROL PLAN WILL BE MEASURED ON A LUMP SUM BASIS.

PERMANENT SIGNS 1 & 2 IN SIGN SCHEDULE WILL BE PAID FOR SEPARATELY.

**SIGN SCHEDULE**

SIGN	LOCATION	W1-4R	W8-18	W13-1P	W20-3(0)48	W20-3(0)48	R11-2-4830	TYPE III BARRICADE	SQ. FT.	WOOD SIGN SUPPORT (FT)	COMMENTS
		36"X36"	36"X36	18"X18"	48"X48"	48"X48"	48" X 30"				
1	TR 366 STA. 9+25 RT	1		1					11.25	15	20 MPH
1	TR 366 STA. 18+75 LT	1		1					11.25	15	20 MPH
2	TR 366 STA. 12+25 RT		1						9.00	15	
2	TR 366 SOUTH OF INTERSECTION WITH ROAD 2080N		1						9.00	15	FOR SOUTHBOUND TRAFFIC
<b>PERMANENT SIGN TOTAL</b>		<b>2</b>	<b>2</b>	<b>2</b>					<b>40.5</b>	<b>60</b>	
3	TR 366				3				27.00		LOCATION PER BLR-21
4	TR 366					2			18.00		LOCATION PER BLR-21
5	TR 366						4	4	40.00		LOCATION PER BLR-21. USE WITH TYPE III BARRICADES AS SHOWN ON STD 701901 DETAIL FOR "ROAD CLOSED TO ALL TRAFFIC". EACH TYPE III BARRICADE SHALL HAVE TWO TYPE A FLASHING LIGHTS
<b>STANDARD BLR 21 TOTAL</b>					<b>3</b>	<b>2</b>	<b>4</b>	<b>4</b>	<b>85.0</b>		



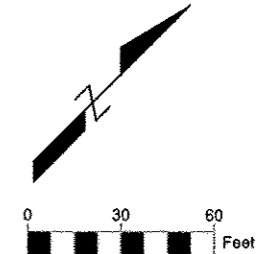
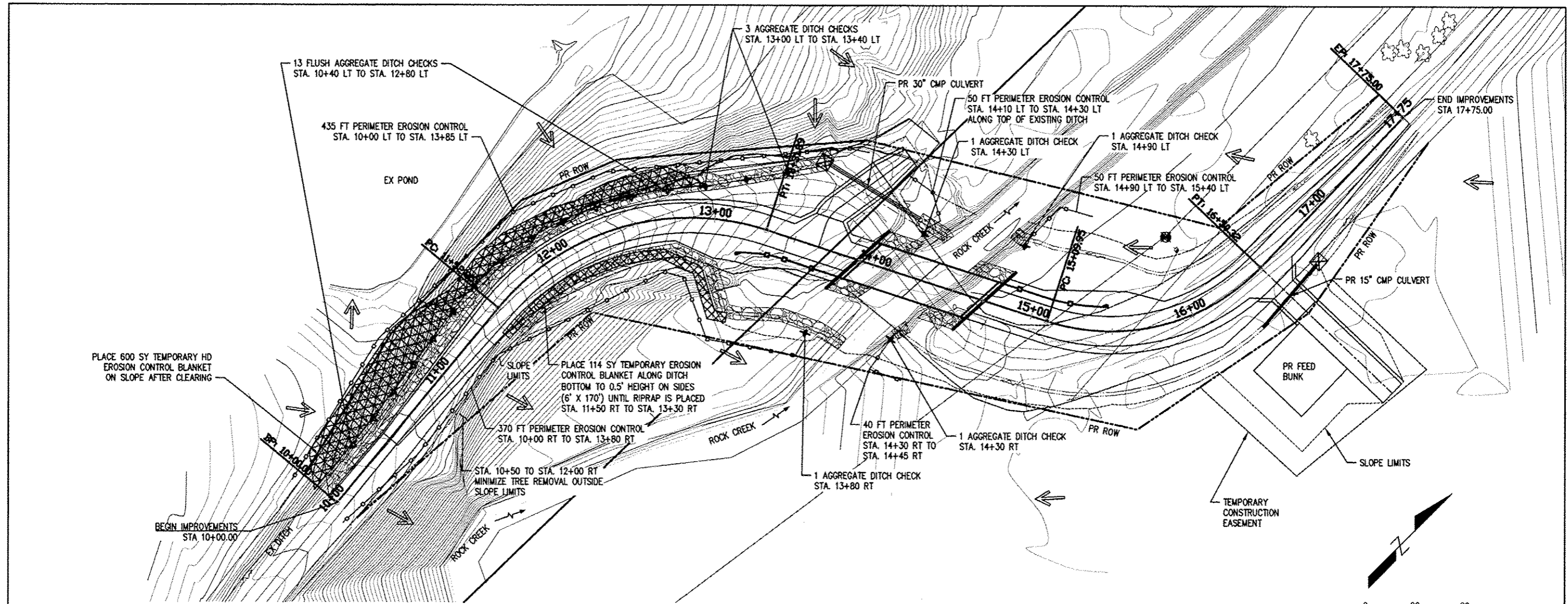
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PLOT SCALE *	CHECKED - DBS	REVISED -
PLOT DATE *	DRAWN - TCD	REVISED -
	CHECKED -	REVISED -

**HANCOCK COUNTY HIGHWAY DEPARTMENT**  
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**SIGN SCHEDULE AND TRAFFIC CONTROL PLAN**

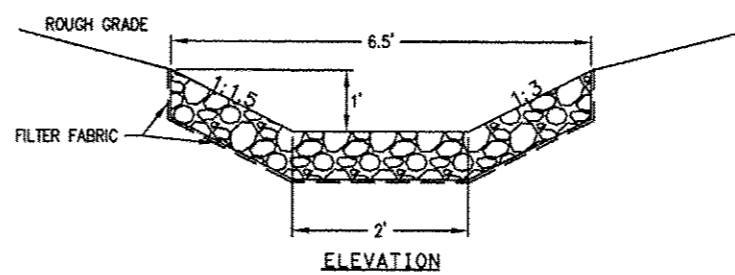
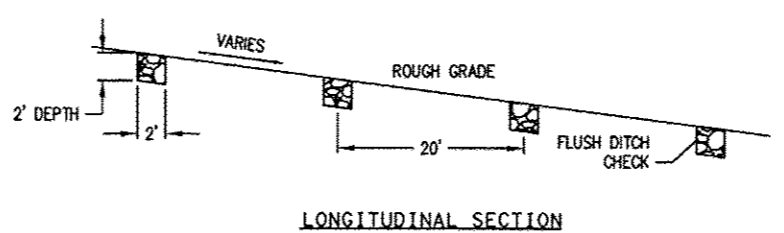
SHEET NO. 1 OF 1 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-08115-00-BR	HANCOCK	32	11
CONTRACT NO. 93693				
ILLINOIS FED. AID PROJECT				



**GENERAL NOTES - EROSION AND SEDIMENT CONTROL**

1. TEMPORARY EROSION AND SEDIMENT CONTROL SYSTEMS SHALL BE CONSTRUCTED, MAINTAINED, REMOVED, AND DISPOSED OF IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS. THESE SYSTEMS SHALL BE MAINTAINED DURING THE CONSTRUCTION SEASON AS WELL AS THE WINTER MONTHS AND OTHER TIMES WHEN THE PROJECT IS CLOSED DOWN.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT.
3. DISTURBED AREAS ARE TO BE PROTECTED FOR EROSION IN A TIMELY MANNER. UPON COMPLETION OF GRADING OR CONSTRUCTION, THE AREA SHALL BE STABILIZED (USING PERMANENT MEASURES WHEN POSSIBLE).
4. CONDITIONS CREATED BY THE CONTRACTOR'S OPERATIONS OR THE FOR THE CONVENIENCE, WHICH ARE NOT COVERED BY THE PLANS, SHALL BE PROTECTED AS DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST.
5. AGGREGATE DITCH CHECK SPACING IS BASED ON 2' HEIGHT. IF DIFFERENT HEIGHT IS USED, THE SPACING OF THE DITCH CHECKS SHALL BE ADJUSTED. THE CONTRACTOR SHALL UTILIZE DITCH CHECKS AS DIRECTED BY ENGINEER.
6. PERIMETER EROSION BARRIER IS SHOWN ON THE PLANS FOR SCHEDULE QUANTITY. ACTUAL LOCATIONS OF PERIMETER EROSION BARRIER WILL BE DETERMINED DURING THE JOBSITE INSPECTION CONDUCTED BY THE CONTRACTOR AND ENGINEER PRIOR TO BEGINNING ANY WORK REQUIRING EROSION CONTROL.
7. PLACE TEMPORARY EROSION CONTROL SEEDING ON ALL ERODIBLE/EARTH AREAS EVERY 7 DAYS, REGARDLESS OF WEATHER OR WORK CONDITIONS. THE ENGINEER MAY REQUIRE THAT CRITICAL LOCATIONS BE SEEDED IMMEDIATELY AND THE CONTRACTOR SHALL SEED THESE AREAS WITHIN 48 HOURS OF SUCH A DIRECTIVE. SCHEDULE QUANTITY ASSUMES ENTIRE JOB IS SEEDED TWO (2) TIMES DURING THE GROWING SEASON (MARCH 1 - NOVEMBER 30).
8. SEE PLANS FOR RIPRAP INFORMATION.
9. RIPRAP DITCH LINING AS SHOWN ON THE PLANS SHALL BE INSTALLED UPON ESTABLISHMENT OF PROPOSED DITCH.
10. SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H)



**FLUSH AGGREGATE DITCH CHECK**

**EROSION CONTROL LEGEND**

- FOR RIPRAP DETAILS AND QUANTITIES, SEE STRUCTURE PLANS AND ROADWAY PLANS
- INLET AND PIPE PROTECTION
- AGGREGATE DITCH CHECK
- FLUSH AGGREGATE DITCH CHECK
- TEMPORARY EROSION CONTROL BLANKET
- TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET
- PERIMETER EROSION CONTROL
- DIRECTION OF DITCH FLOW
- DIRECTION OF OVERLAND FLOW



USER NAME *	DESIGNED - ---	REVISED - ---
PLDT SCALE *	CHECKED - ---	REVISED - ---
PLDT DATE *	DRAWN - ---	REVISED - ---
	CHECKED - ---	REVISED - ---

**HANCOCK COUNTY HIGHWAY DEPARTMENT**  
 101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321  
 (217)357-3155

**EROSION CONTROL PLANS**

SHEET NO. 1 OF 1 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-08115-00-BR	HANCOCK	32	12
CONTRACT NO. 93693				

ILLINOIS FED. AID PROJECT

Benchmark No. 1: Elev. 605.23, Sta. 16+05, 49.0' Lt, Railroad spike in Power Pole

Existing Structure: SN 034-4240 has been removed by the Township. It was a 3-span structure (40' pony truss center span with 14' steel stringer end spans), 68'-0" bk/bk abutments, wood deck roadway at 0° skew.

Removal of Existing Structure consists of removing any portion of the remaining substructure that interferes with the proposed construction.

Road is currently closed to traffic at the existing structure and shall remain closed during construction.

No Salvage.

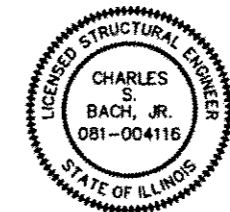
**GENERAL NOTES**

- See Structural Sheet 9 of 9 for Boring Data.
- Reinforcement bars designated (E) shall be epoxy coated.
- Layout of the slope protection may be varied to suit ground conditions in the field as directed by the Engineer.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

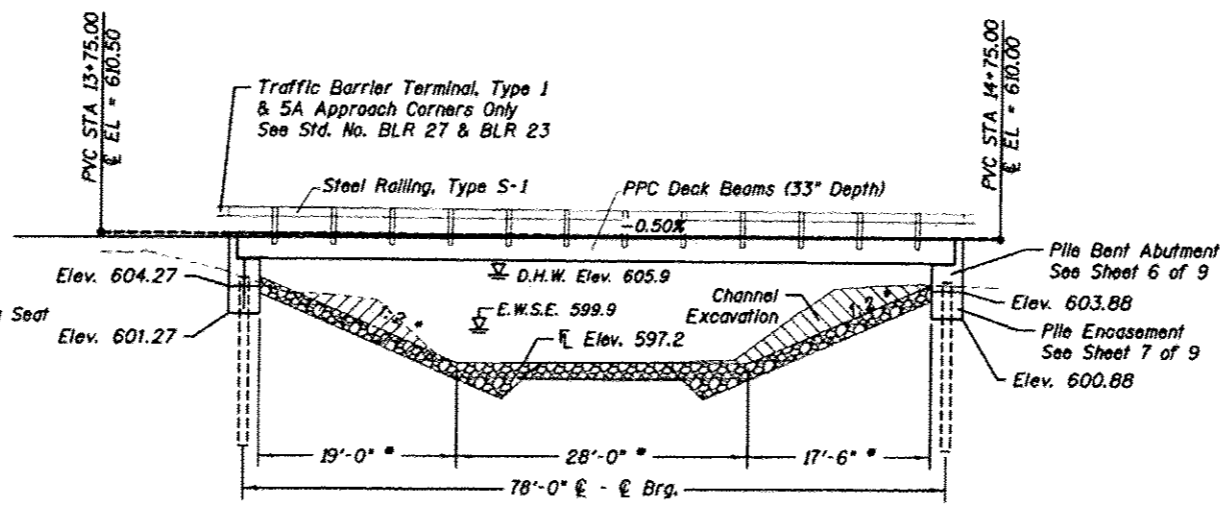
**TOTAL BILL OF MATERIAL**  
(SN 034-4241, Structural Sheets 1-9)

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.		122	122
Stone Riprap, Class A4	Ton		270	270
Filter Fabric	Sq. Yd.		349	349
Removal of Existing Structures	Each		1	1
Structure Excavation			96	96
Concrete Structures	Cu. Yd.		33.4	33.4
Concrete Encasement	Cu. Yd.		18.2	18.2
Precast Prestressed Concrete Deck Beams (33" depth)	Sq. Ft.	2142		2142
Reinforcement Bars, Epoxy Coated	Pound		3,920	3,920
Steel Railing, Type S1	Foot	163		163
Furnishing Steel Piles, HP12x53	Foot		180	180
Driving Piles	Foot		180	180
Test Pile Steel HP 12x53	Each		2	2
Name Plates	Each	1		1

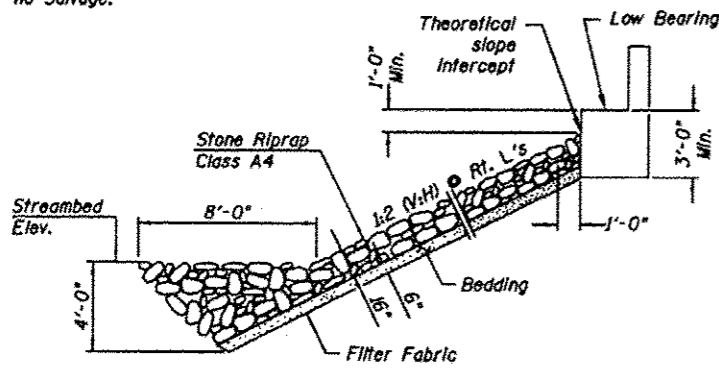
I Certify That to the Best of my knowledge, information and belief, this bridge is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.



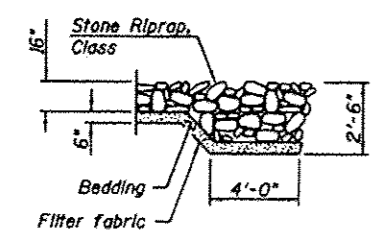
*Charles S. Bach, Jr.* 8/4/2016  
 Charles S. Bach, Jr. Date  
 Licensed Structural Engineer  
 State of Illinois No. 081-004116  
 expires 11/30/2016



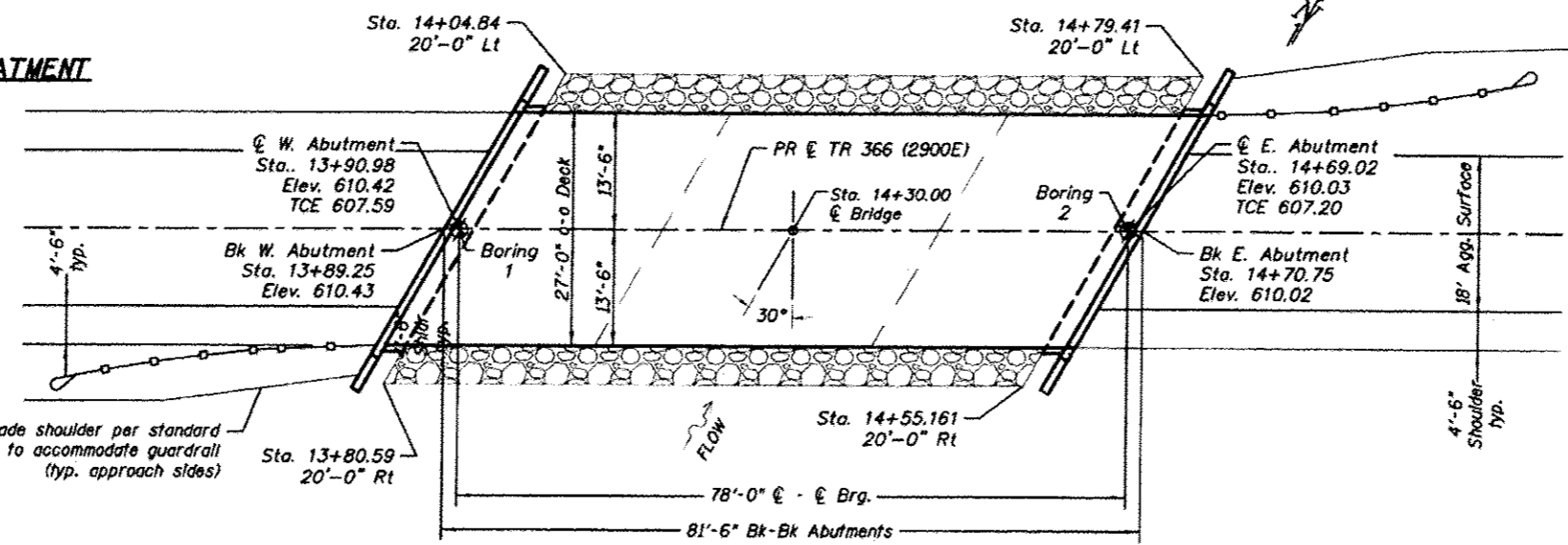
**ELEVATION**  
\*At Rt L's



**TOE STONE RIPRAP TREATMENT**



**FLANK STONE RIPRAP TREATMENT**



**PLAN**

**DESIGN SPECIFICATIONS**

AASHTO LRFD Bridge Design Specifications, 7th Edition with 2016 Interims

**LOADING HL-93**

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

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. ( $S_{D1}$ ) = 0.076g  
 Design Spectral Acceleration at 0.2 sec. ( $S_{D5}$ ) = 0.118g  
 Soil Site Class = C

**DESIGN STRESSES**

**FIELD UNITS**

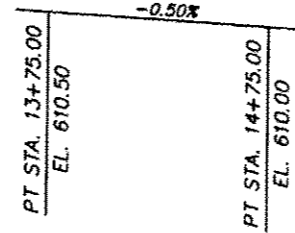
$f'_c$  = 3,500 psi  
 $f_y$  = 60,000 psi (Reinforcement)

**PRECAST PRESTRESSED UNITS**

$f'_c$  = 6,000 psi  
 $f'_{ci}$  = 5,000 psi  
 $f'_s$  = 270,000 psi ( $\frac{1}{2}$ "  $\phi$  low lax. strands)  
 $f_{sl}$  = 201,960 psi ( $\frac{1}{2}$ "  $\phi$  low lax. strands)

**NAME PLATE**  
 See Std. 515001

ROCK CREEK  
 BUILT BY  
 FOUNTAIN GREEN ROAD DISTRICT  
 SEC. 12-08115-00-BR  
 TR 366 (2900E) STA. 14+30.00  
 STR. NO. 034-4241 LOADING HL-93



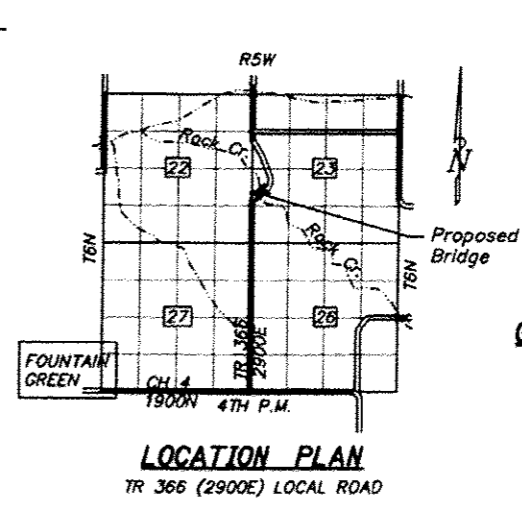
**PROFILE**

**WATERWAY INFORMATION**

DRAINAGE AREA - 13.1 SQ. MI			LOW GRADE ELEVATION = 603.3 AT STA. 17+75						
FLOOD	FLOOD FREQUENCY (YEAR)	FLOW VOLUME (CFS)	OPENING SQ. FT.		NATURAL H.W.E.	HEAD - FT.		HEADWATER ELEV.	
			EXISTING	PROPOSED		EXISTING	PROPOSED	EXISTING	PROPOSED
DESIGN	10	1,740	356	371	605.9	0.1	0.4	606.0	606.4
BASE	100	3,080	427	447	607.1	0.1	0.6	607.2	607.7
OVERTOPPING	<2	<795	277	286	604.5	0.1	0.1	604.6	604.6
MAX. CALC	500	4,070	455	456	607.8	0.1	0.6	607.9	608.4

**DESIGN SCOUR ELEVATION TABLE**

Event / Limit	Design Scour Elevations (ft.)		Item I13
	W. Abut.	E. Abut.	
State	604.3	603.9	8
Q100	604.3	603.9	
Q500	604.3	603.9	
Design	604.3	603.9	
Check	604.3	603.9	



**LOCATION PLAN**  
TR 366 (2900E) LOCAL ROAD

**INDEX OF SHEETS**

- General Plan and Elevation
- Superstructure
- 33"x36" PPC Deck Beam
- 33"x36" PPC Deck Beam Details
- Steel Railing, Type S1
- Abutments
- Pile Encasement
- HP Pile Details
- Soil Boring Logs

**GENERAL PLAN & ELEVATION**

SN 034-4241  
 TR 366 OVER ROCK CREEK  
 STA. 14+30.00  
 FOUNTAIN GREEN TOWNSHIP  
 HANCOCK COUNTY, IL



USER NAME *	DESIGNED - TCD	REVISED -
DESIGNED - TCD	CHECKED - CSB	REVISED -
PLLOT SCALE *	DRAWN - TCD	REVISED -
PLLOT DATE *	CHECKED - CSB	REVISED -

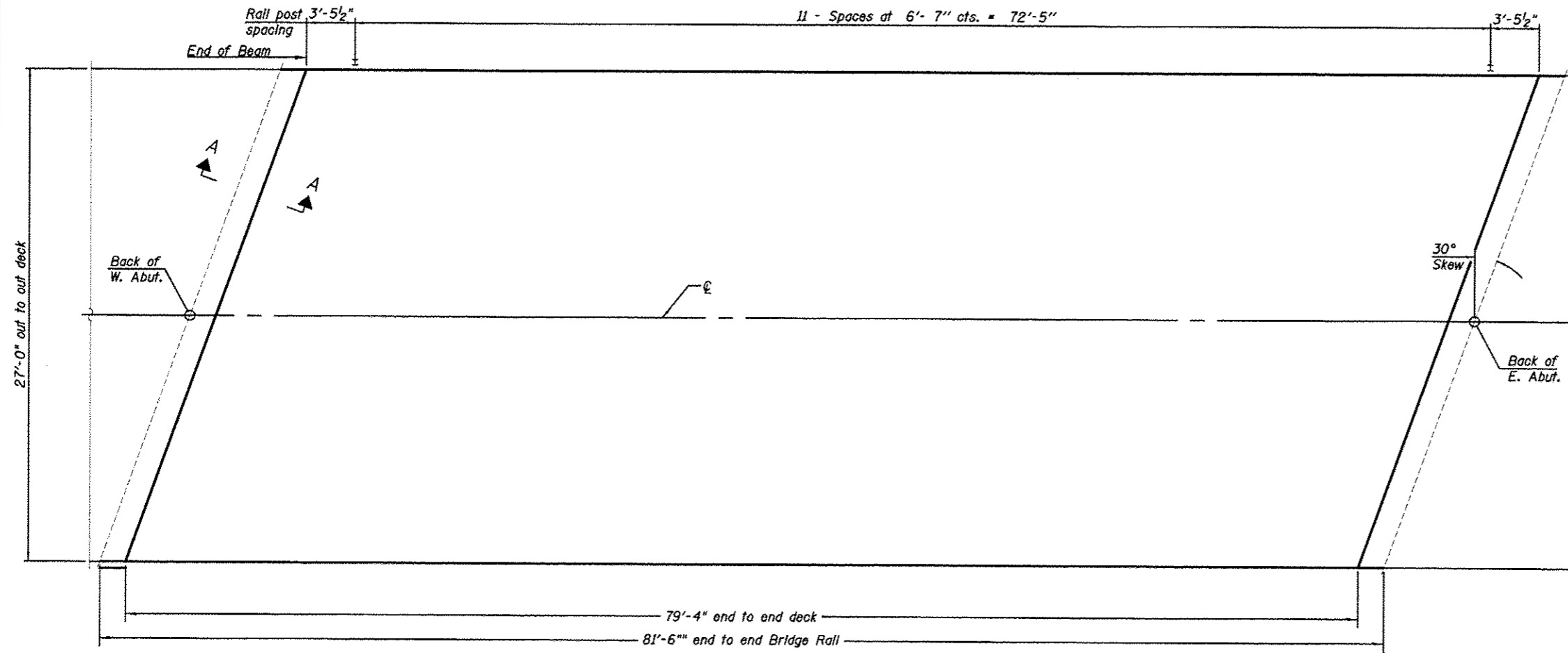
**HANCOCK COUNTY HIGHWAY DEPARTMENT**  
 101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321  
 (217)357-3155

STRUCTURE NO. 034-4241

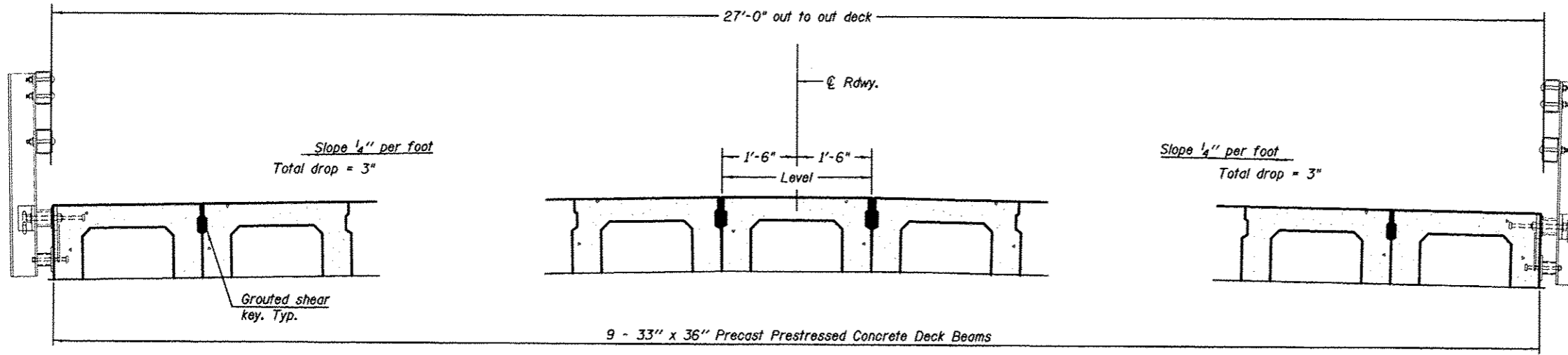
SHEET NO. 1 OF 9 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-08115-00-BR	HANCOCK	32	13
	SN 034-4241			

ILLINOIS FED. AID PROJECT BROS-006711631



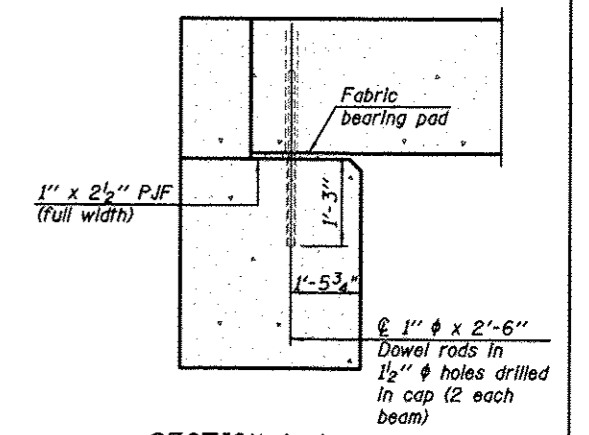
PLAN



CROSS SECTION  
(Looking East)

Notes:  
 See sheets 3 and 4 of 9 for Superstructure Details and Bill of Material.  
 Bars Indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.  
 Spacing of (aE) bars shall be measured along the  $\phi$  of structure.

MINIMUM BAR LAP  
 #4 bar = 2'-7"



SECTION A-A  
 (Dimensions are at Rt. L's)  
 See sheet 4 of 9 for fabric bearing pad details.

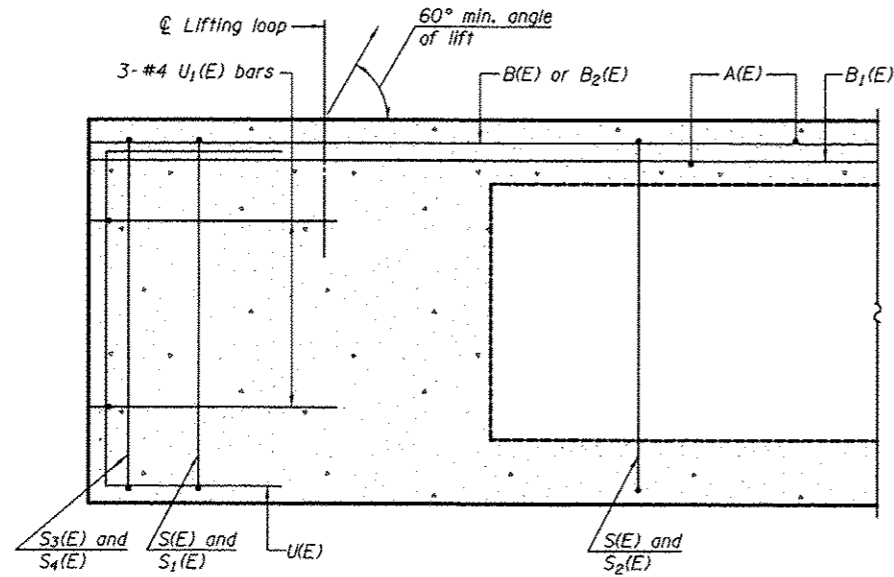


USER NAME *	DESIGNED - TCD	REVISIONS
	CHECKED - CSB	REVISIONS
PLOT SCALE *	DRAWN - TCD	REVISIONS
PLOT DATE *	CHECKED - CSB	REVISIONS

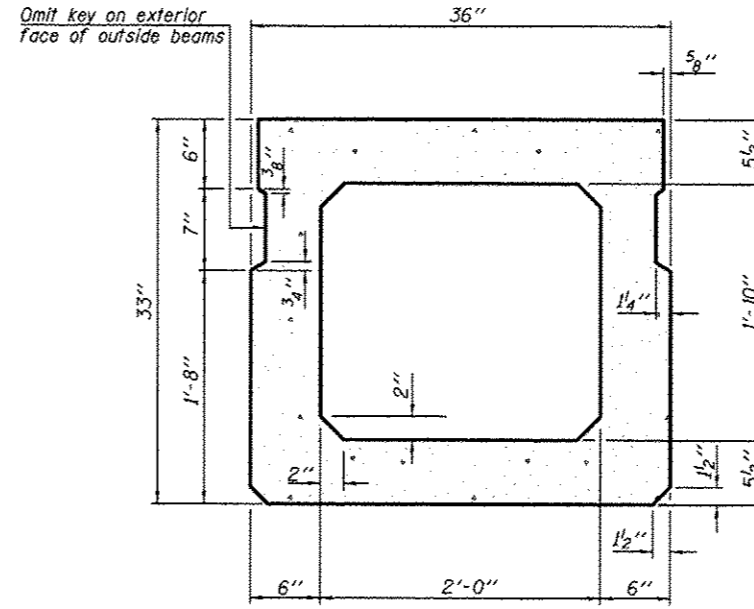
HANCOCK COUNTY HIGHWAY DEPARTMENT  
 101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321  
 (217)357-3155

SUPERSTRUCTURE  
 STRUCTURE NO. 034-4241  
 SHEET NO. 2 OF 9 SHEETS

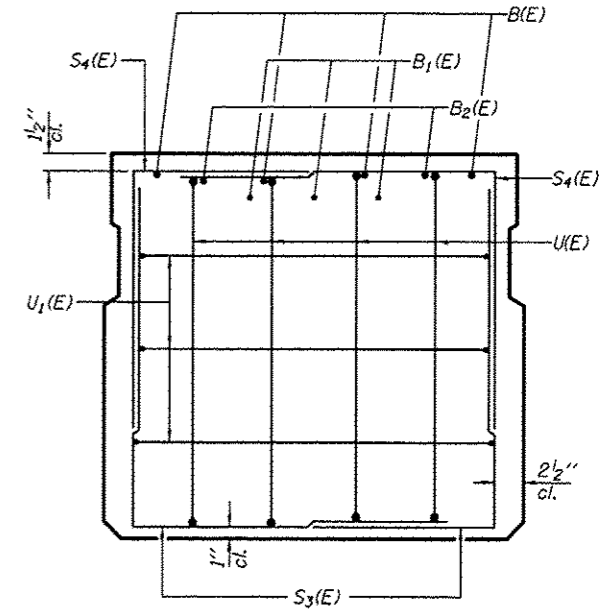
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-08115-00-BR	HANCOCK	30	14
SN 034-4241		CONTRACT NO. 93693		
ILLINOIS		FED. AID PROJECT BR05-0067(163)		



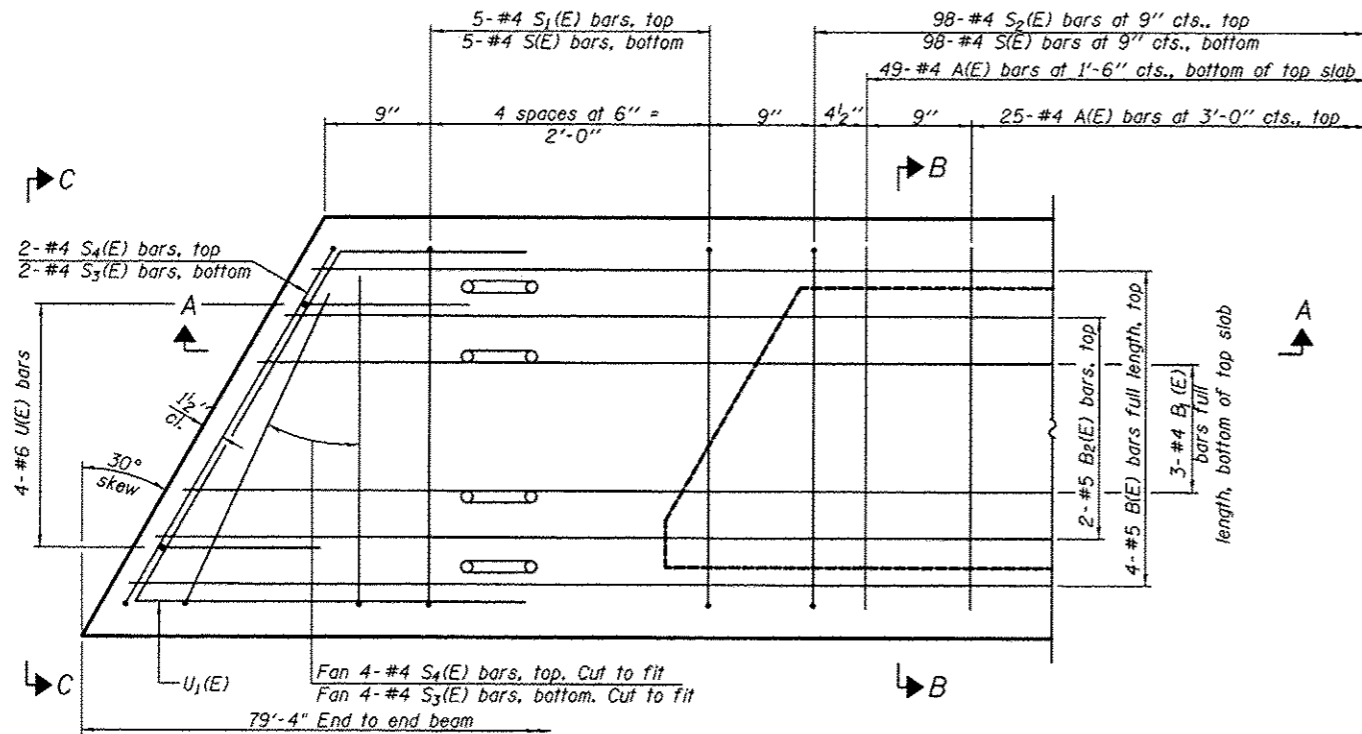
SECTION A-A



SECTION B-B  
(Showing dimensions)

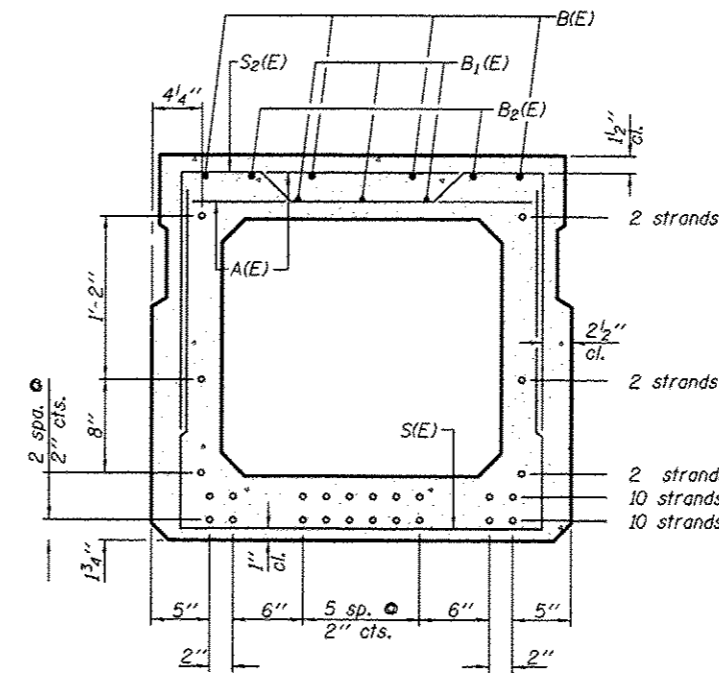


VIEW C-C



PLAN VIEW

Similar about  $\phi$



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)	74	#4	2'-7"	—
B(E)	8	#5	40'-10"	—
B1(E)	6	#4	40'-10"	—
B2(E)	4	#5	10'-0"	—
S(E)	108	#4	7'-8"	┌
S1(E)	10	#4	6'-5"	┌
S2(E)	98	#4	6'-8"	┌
S3(E)	12	#4	5'-1"	┌
S4(E)	12	#4	4'-5"	┌
U(E)	8	#6	5'-0"	┌
U1(E)	6	#4	6'-10"	┌

Note: See sheet 4 of 9 for additional details and Bill of Material.

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

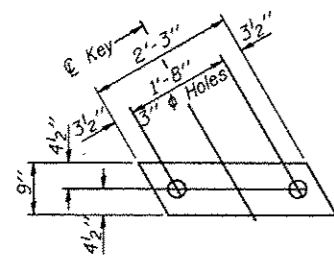
**MINIMUM BAR LAP**

#4 bar = 1'-11"  
#5 bar = 2'-6"

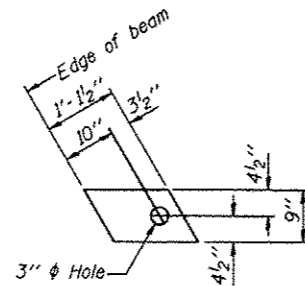
PD-3336-L

6-8-15

	USER NAME *	DESIGNED - TCD	REVISED -	<b>HANCOCK COUNTY HIGHWAY DEPARTMENT</b> 101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321 (217)357-3155	<b>33" x 36" PPC DECK BEAM</b> <b>STRUCTURE NO. 034-4241</b> SHEET NO. 3 OF 9 SHEETS	TR 366	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE *	CHECKED - CSB	REVISED -			366	12-08115-00-BR	HANCOCK	32	15
	PLOT DATE *	DRAWN - TCD	REVISED -			SN 034-4241		CONTRACT NO. 93693		
		CHECKED - CSB	REVISED -			[ILLINOIS]		FED. AID PROJECT BR05-00067(1631)		



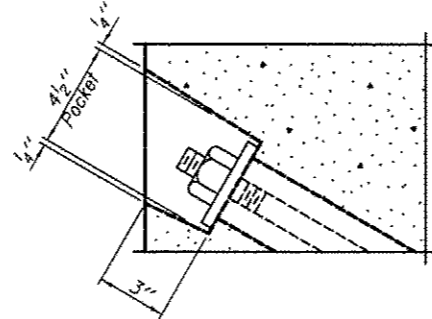
**FABRIC BEARING PAD**  
(Interior)  
(16 Required)



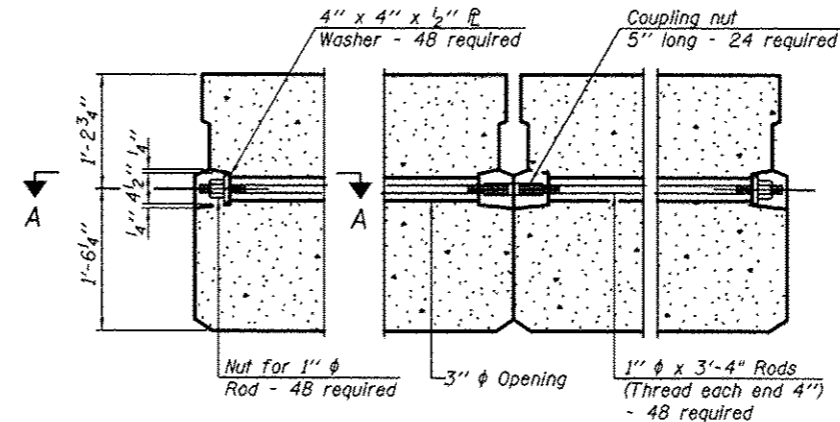
**FABRIC BEARING PAD**  
(Exterior)  
(4 Required)

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

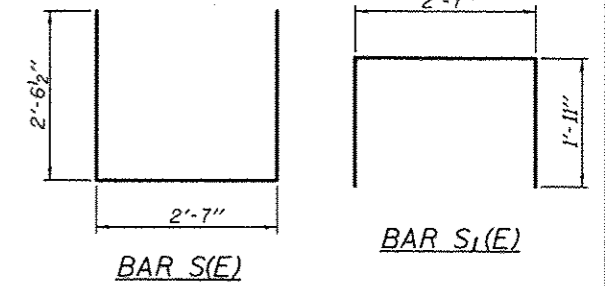
**FIXED**



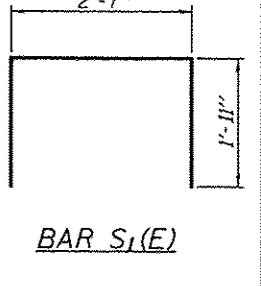
**SECTION A-A**



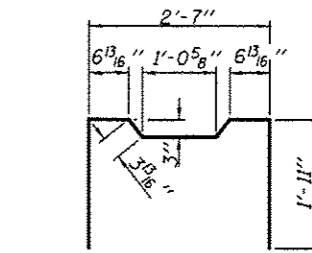
**TYPICAL TRANSVERSE TIE ASSEMBLY**



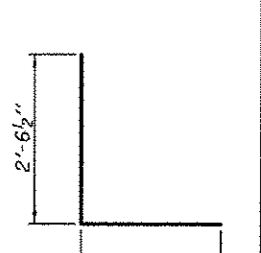
**BAR S(E)**



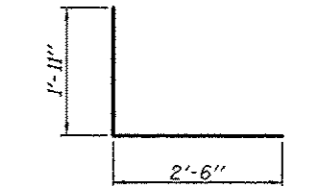
**BAR S1(E)**



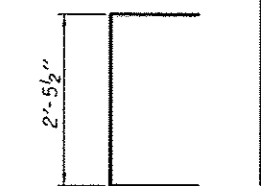
**BAR S2(E)**



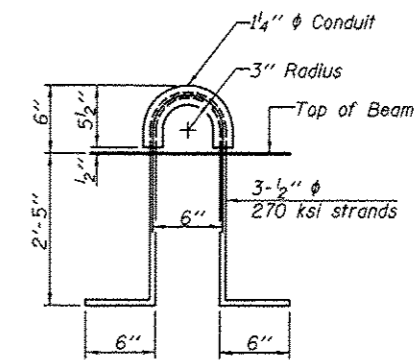
**BAR S3(E)**



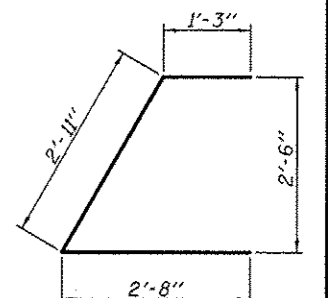
**BAR S4(E)**



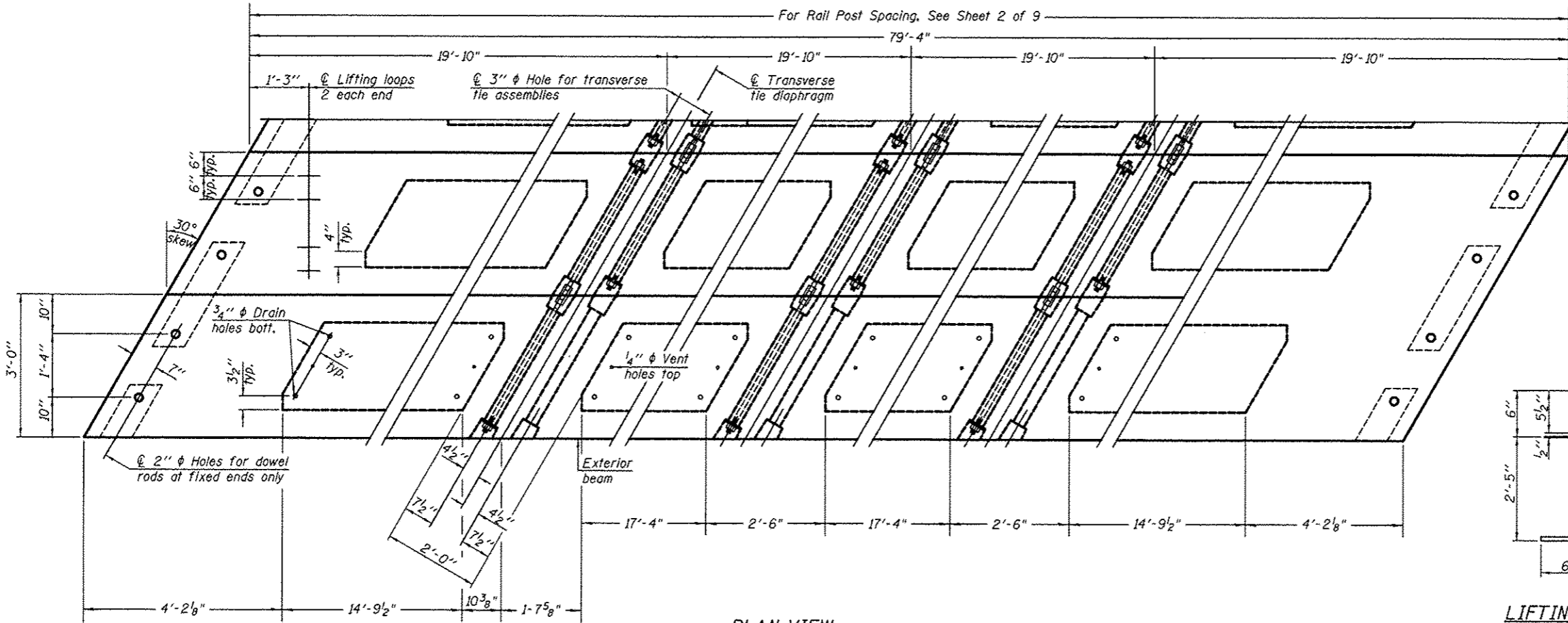
**BAR U(E)**



**LIFTING LOOP DETAIL**



**BAR U1(E)**



**PLAN VIEW**

**NOTES**

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

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" diameter rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'cl, shall be 5000 psi.

**BILL OF MATERIAL**

Precast Prestressed Conc. Deck Bms. (33" depth)	Sq. Ft.	2142
---	---------	------

PD-3336-LD 1-28-16



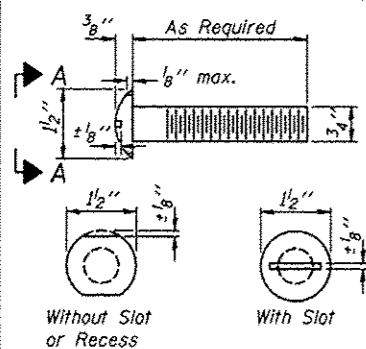
USER NAME *	DESIGNED - TCD	REVISED -
PLOT SCALE *	CHECKED - CSB	REVISED -
PLOT DATE *	DRAWN - TCD	REVISED -
	CHECKED - CSB	REVISED -

**HANCOCK COUNTY HIGHWAY DEPARTMENT**  
101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321  
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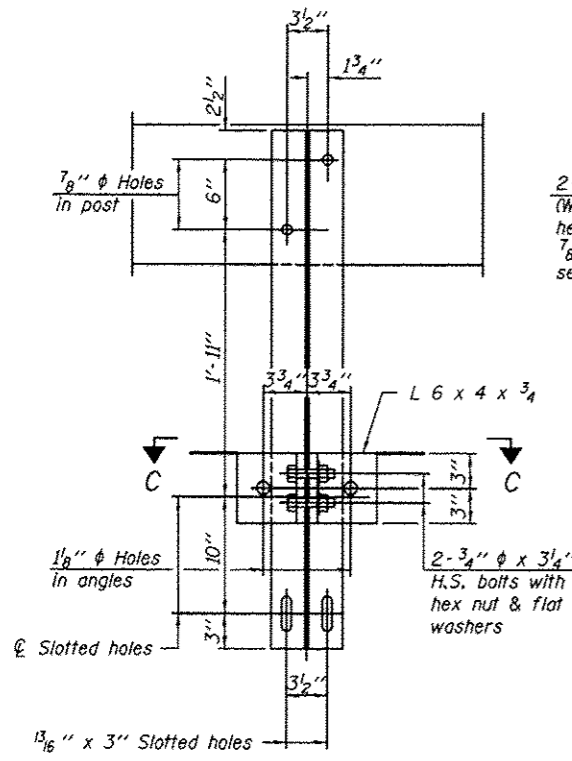
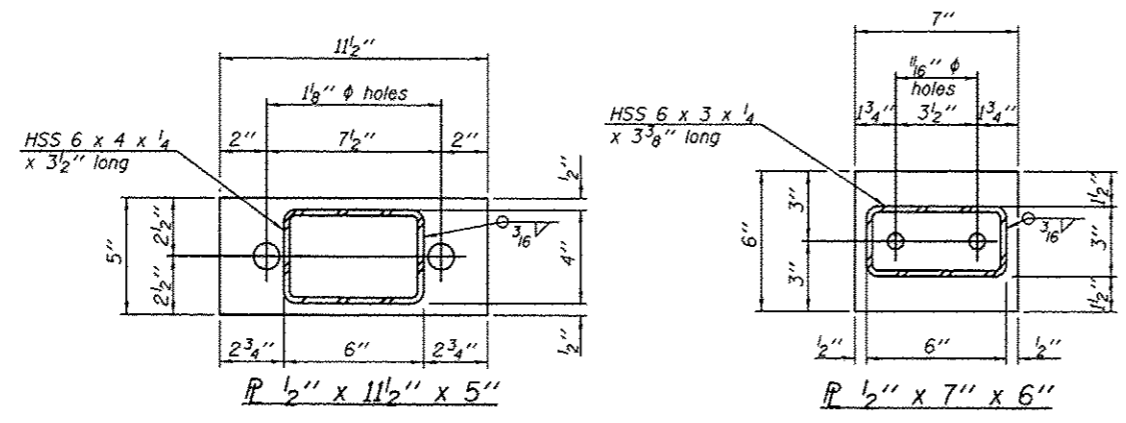
**33" x 36" PPC DECK BEAM DETAILS**  
**STRUCTURE NO. 034-4241**  
SHEET NO. 4 OF 9 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-08115-00-BR	HANCOCK	32	16
		CONTRACT NO.	93693	
		ILLINOIS	FED. AID PROJECT BR05-06671(63)	

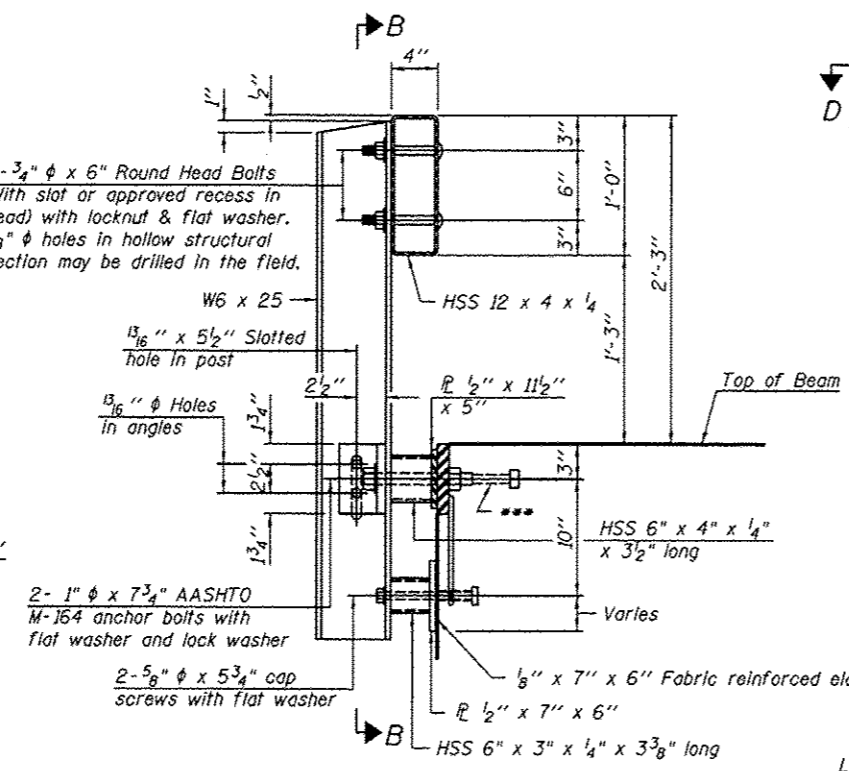




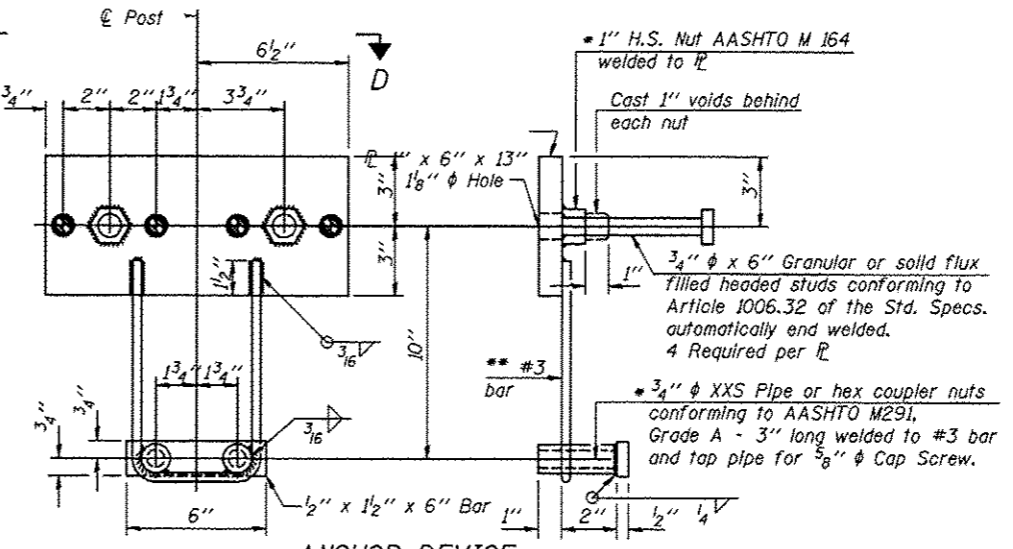
VIEW A-A  
ROUND HEAD BOLT



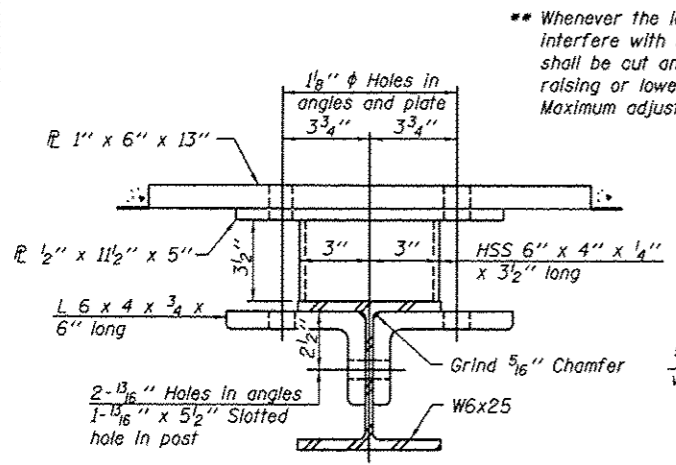
SECTION B-B



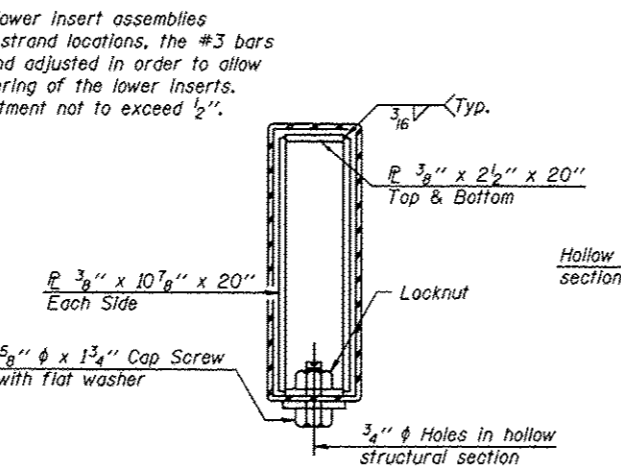
SECTION AT RAILING POST



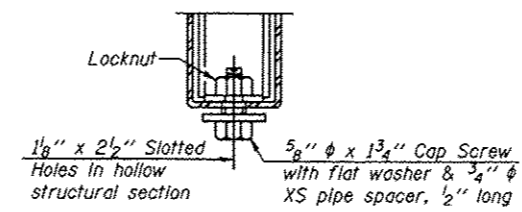
ANCHOR DEVICE



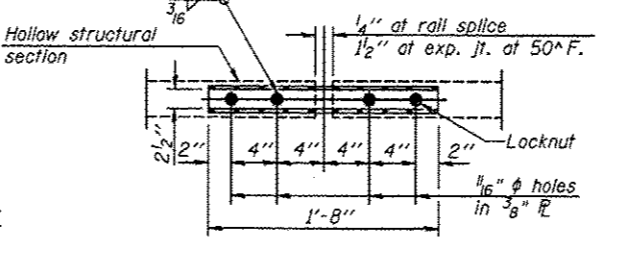
SECTION C-C



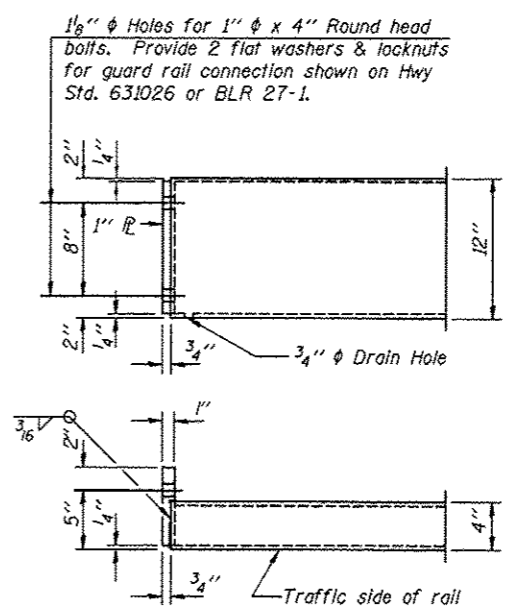
SECTIONS AT RAIL SPLICE



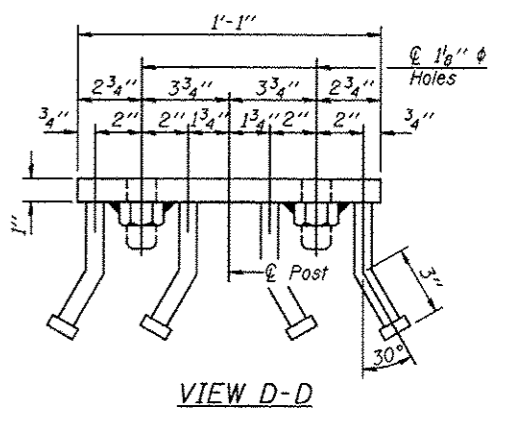
RAIL SPLICE CONNECTION  
AT EXPANSION JT.



PLAN-BOTT. SPLICE R  
TYPICAL



END OF RAIL DETAILS



VIEW D-D

**BILL OF MATERIAL**

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	163

**Notes:**  
 All field drilled holes shall be coated with an approved zinc rich paint before erection.  
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type 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.

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

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

R-23A

7-1-10 (10'-9" Maximum Post Spacing - See Sheet 2 of 9 for rail post spacing)

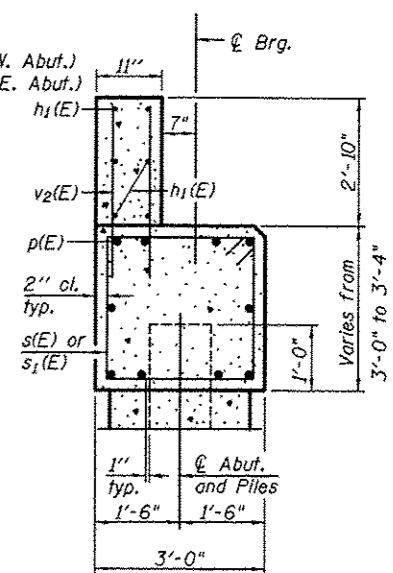
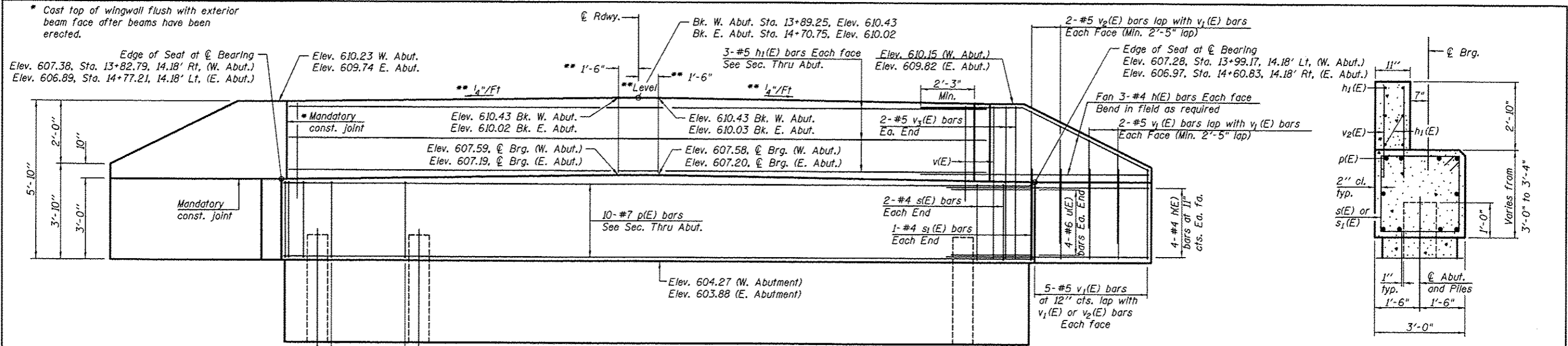


USER NAME *	DESIGNED -	REVISIONS -
TCD	TCD	1
CSB	CSB	2
TCD	TCD	3
CSB	CSB	4

**HANCOCK COUNTY HIGHWAY DEPARTMENT**  
 101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321  
 (217)357-3155

**STEEL RAILING, TYPE S-1**  
**STRUCTURE NO. 034-4241**  
 SHEET NO. 5 OF 9 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-08115-00-BR	HANCOCK	32	17
		SN 034-4241	CONTRACT NO. 93693	
		ILLINOIS	FED. AID PROJECT BR05-006T10631	

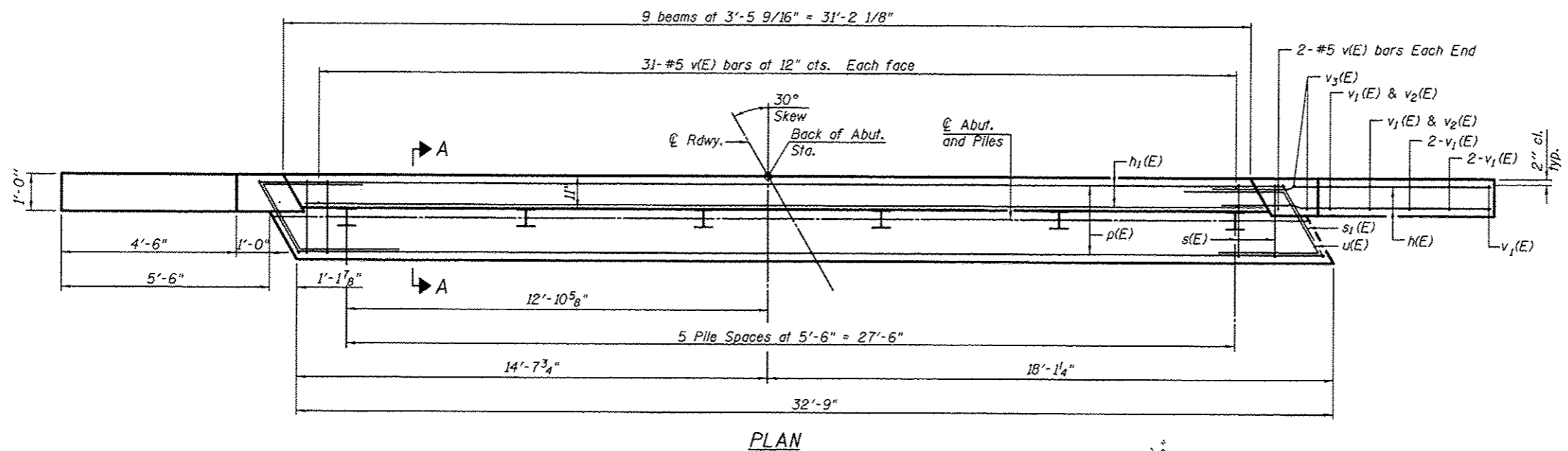


**ELEVATION**  
 \*\* Normal to  $\phi$  Roadway

**SECTION A-A**  
 (Dimensions are at Rt. L's)

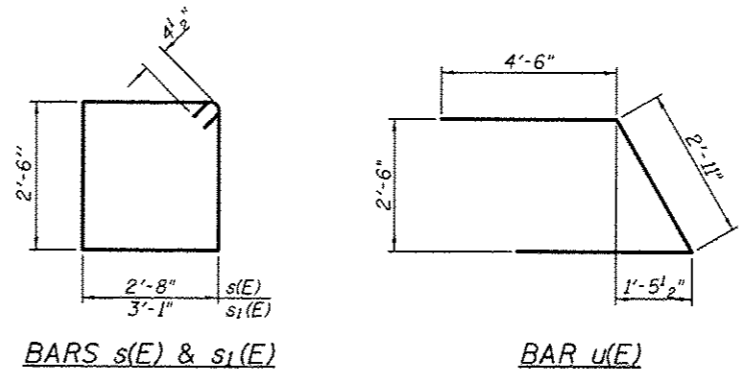
**BILL OF MATERIAL  
 ONE ABUTMENT**

Bar No.	Size	Length	Shape
h(E)	28 #4	8'-9"	—
h1(E)	6 #5	30'-10"	—
p(E)	10 #7	32'-5"	—
s(E)	34 #4	11'-1"	□
s1(E)	2 #4	11'-11"	□
u(E)	8 #6	11'-11"	△
v(E)	66 #5	5'-3"	—
v1(E)	28 #5	3'-7"	—
v2(E)	8 #5	4'-2"	—
v3(E)	4 #5	5'-6"	—
Structure Excavation	Cu. Yd.	48	
Concrete Structures	Cu. Yd.	16.7	
Reinforcement Bars, Epoxy Coated	Pound	1960	
Furnishing Steel Piles, HP 12x53	Foot	90	
Driving Piles	Foot	90	
Test Pile	Each	1	



**PLAN**

**PILE DATA**  
 Type: HP 12X53  
 Nominal Required Bearing: 260 kips  
 Factored Resistance Available: 142 kips  
 Est. Length: 18 Ft.  
 No. Production Piles: 6 (includes 1 test pile)  
 No. Test Piles: 1 (each abutment)

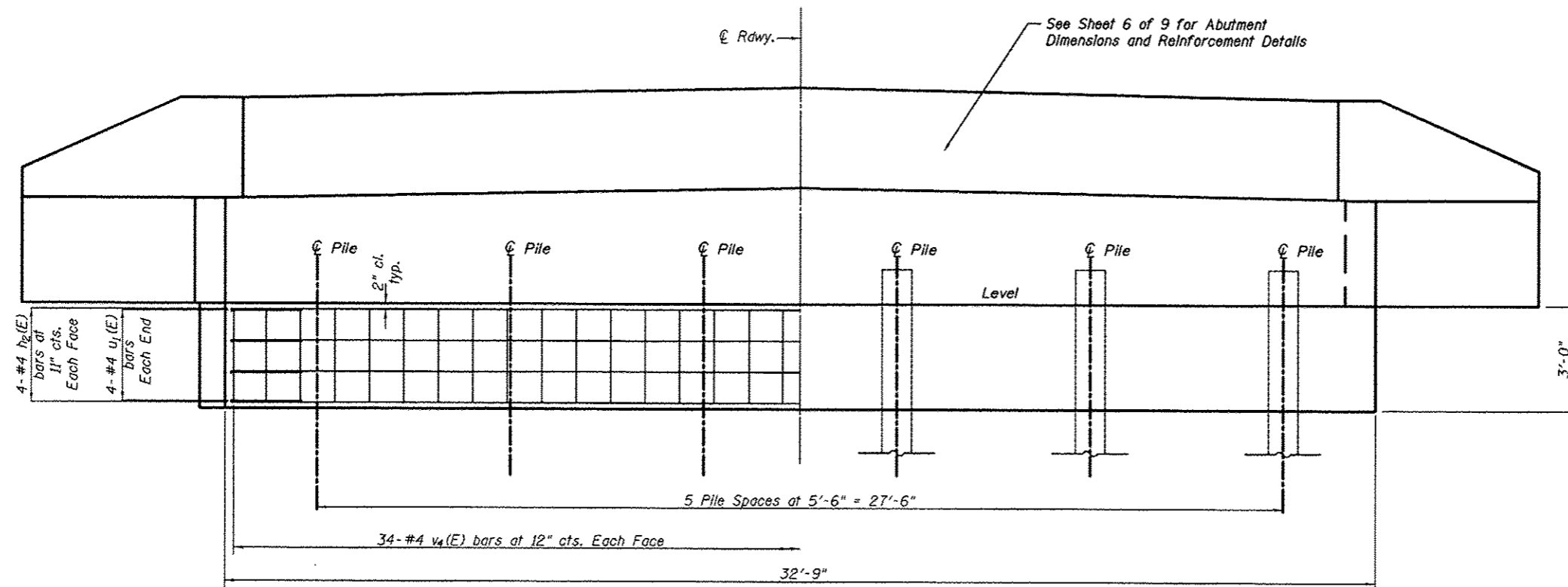


**BARS s(E) & s1(E)**

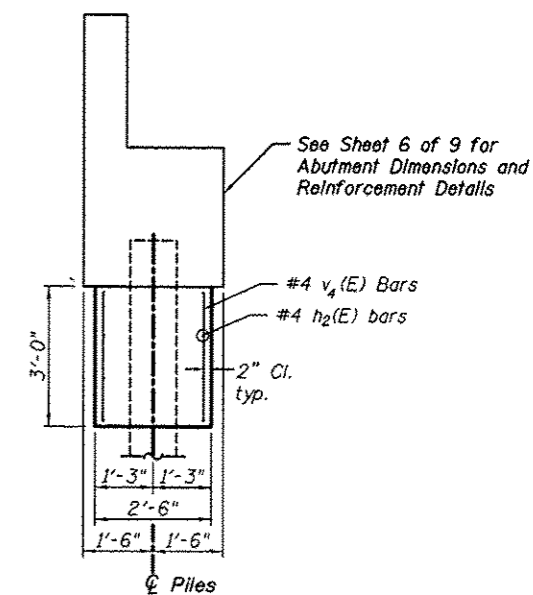
**BAR u(E)**

Notes:  
 For details of piles, see sheet 8 of 9.  
 For details of Concrete Encasement, see sheet 7 of 9.  
 Cast backwall after beams and concrete wearing surface, if applicable, have been erected.

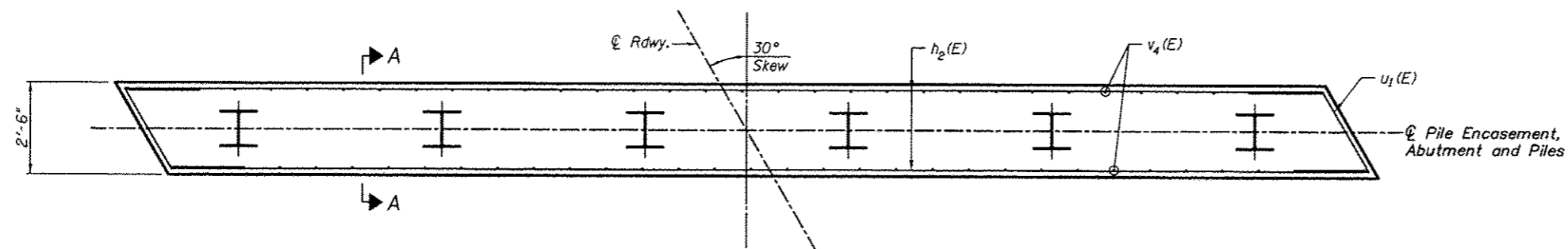
AD-2742-L 7-1-10



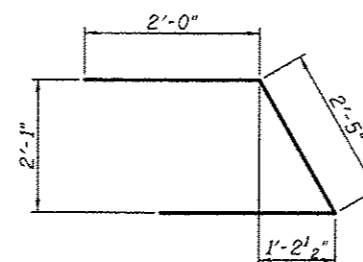
ELEVATION



SECTION A-A  
(Dimensions are at Right Angles)



ENCASEMENT DETAIL



BAR u1(E)

BILL OF MATERIAL  
ONE ABUTMENT

Bar	No.	Size	Length	Shape	
h <sub>2</sub> (E)	8	#4	32'-5"	—	
u <sub>1</sub> (E)	8	#4	6'-5"	▤	
v <sub>4</sub> (E)	68	#4	2'-8"	—	
Reinforcement Bars, Epoxy Coated				Pound	330
Concrete Encasement				Cu. Yd.	9.1

Notes:  
For details of abutment, see sheet 6 of 9.  
Reinforcement in the pile encasement is included in the Cost of Concrete Encasement.



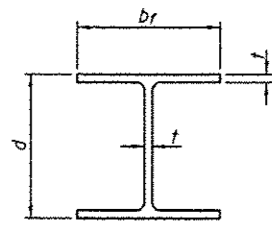
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PLOT SCALE *	CHECKED - CSB	REVISED -
PLOT DATE *	DRAWN - TCD	REVISED -
	CHECKED - CSB	REVISED -

HANCOCK COUNTY HIGHWAY DEPARTMENT  
101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321  
(217)357-3155

PILE ENCASEMENT  
STRUCTURE NO. 034-4241

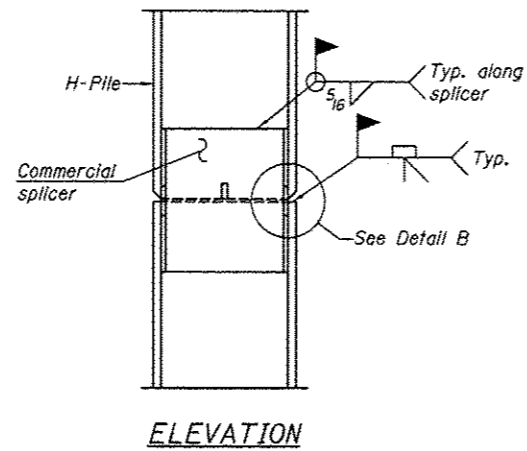
SHEET NO. 7 OF 9 SHEETS

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-08115-00-BR	HANCOCK	32	19
SN 034-4241		CONTRACT NO. 93693		
ILLINOIS		FED. AID PROJECT BR05-0067(163)		

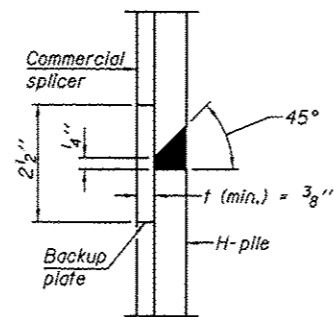


**STEEL PILE TABLE**

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

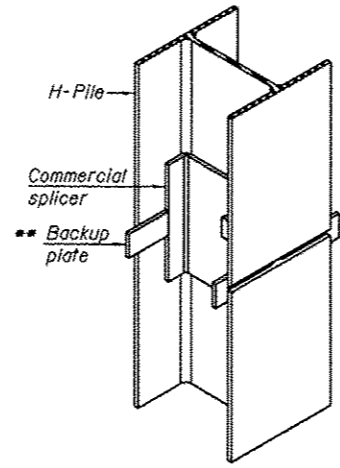


**ELEVATION**

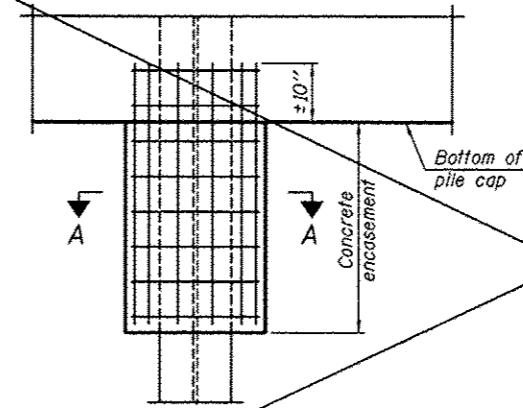


**DETAIL "B"**

**WELDED COMMERCIAL SPLICE**



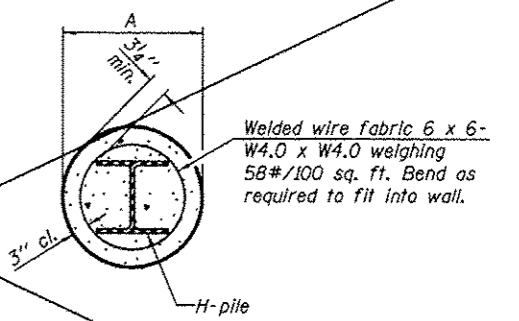
**ISOMETRIC VIEW**



**ELEVATION**

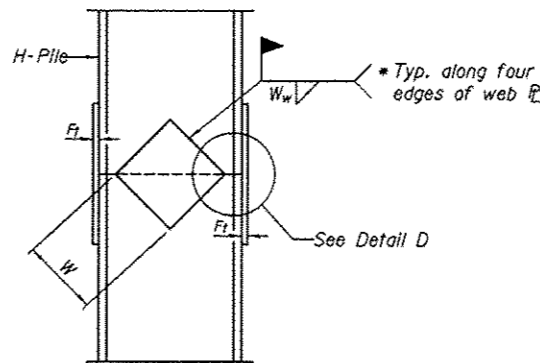
**PILE ENCASEMENT**

(See sheet 7 of 9 for Solid Pile Encasement)

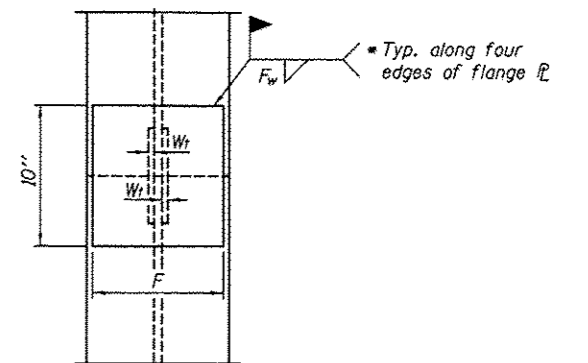


**SECTION A-A**

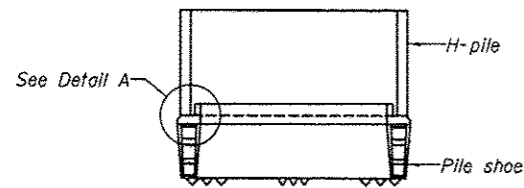
Note: Forms for encasement may be omitted when soil conditions permit.



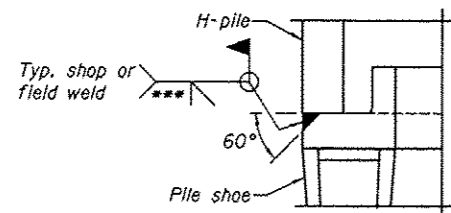
**ELEVATION**



**END VIEW**

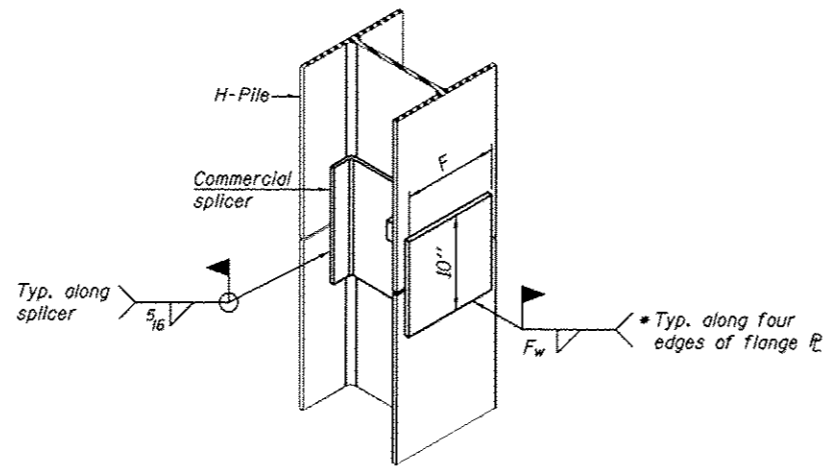


**ELEVATION**

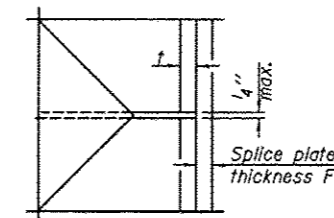


**DETAIL A**

**H-PILE SHOE ATTACHMENT**



**ISOMETRIC 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 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

**WELDED COMMERCIAL SPLICE ALTERNATE**

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

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

F-HP

1-27-12

	USER NAME *	DESIGNED - TCD	REVISED -	<b>HANCOCK COUNTY HIGHWAY DEPARTMENT</b> 101 S. FIRST ST. (PO BOX 379) GARTHAGE, IL 62321 (217)357-3155	<b>HP PILE DETAILS</b> <b>STRUCTURE NO. 034-4241</b> SHEET NO. 8 OF 9 SHEETS	TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE *	CHECKED - CSB	REVISED -			366	12-08115-00-BR	HANCOCK	32	20
PLOT DATE *	CHECKED - CSB	REVISED -				SN 034-4241	CONTRACT NO. 93693			
						ILLINOIS	FED. AID PROJECT BROS-00671631			

**BORING LOG NO. 1** Page 1 of 1

PROJECT: Bridge Replacement #034-4241 CLIENT: Hancock County Engineer

SITE: T.R. 366 (2900 E at Rock Creek) Fountain Green, Illinois

DEPTH (FL)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	SAMPLE NUMBER	LABORATORY TORVANE/HP (pcf)	UNCONFINED COMPRESSIVE STRENGTH (psf)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)
0.5									
0.5 - 6.0									
12				2-2-3 N=5	1			15	
14				2-2-2 N=4	2			17	
14				1-2-2 N=4	3			21	
8				5-10-50 N=60	4			16 5	
6				6-21-24 N=45	5			13	
2				50/3"	6			13	
0				50/0"	7				

Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic

Advancement Method: Continuous Flight Auger	See Exhibit A-1 for description of field procedures See Appendix B for description of laboratory procedures and additional data (if any).	Notes:
Abandonment Method: Auger Cuttings	See Appendix C for explanation of symbols and abbreviations.	
<b>WATER LEVEL OBSERVATIONS</b>	<b>Terracon</b> 870 40th Avenue Bettendorf, Iowa	Boring Started: 7/14/2014 Drill Rig: RP Project No.: 07145043
14' while drilling 12' 1/4 hr after drilling		Boring Completed: 7/14/2014 Driller: RP Exhibit: A-3

**BORING LOG NO. 2** Page 1 of 1

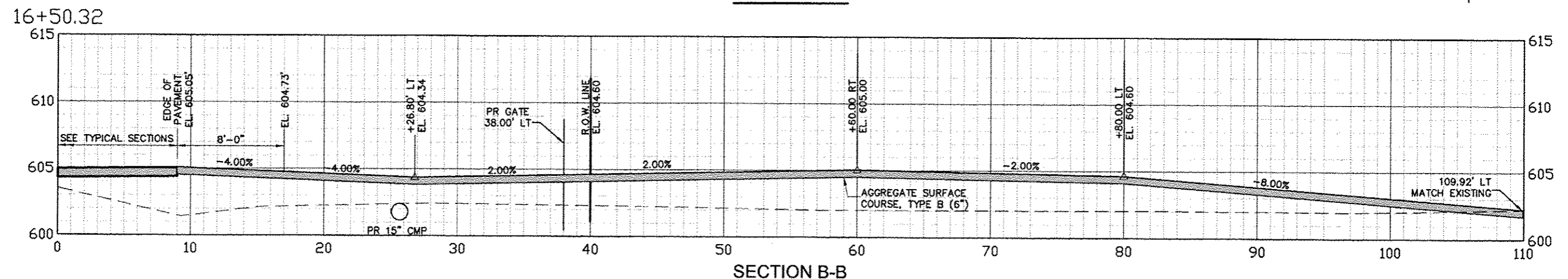
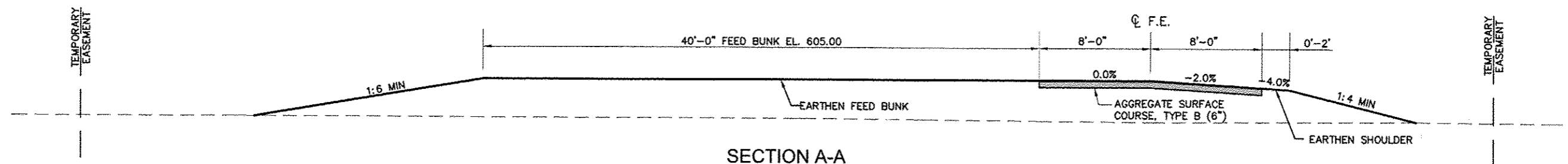
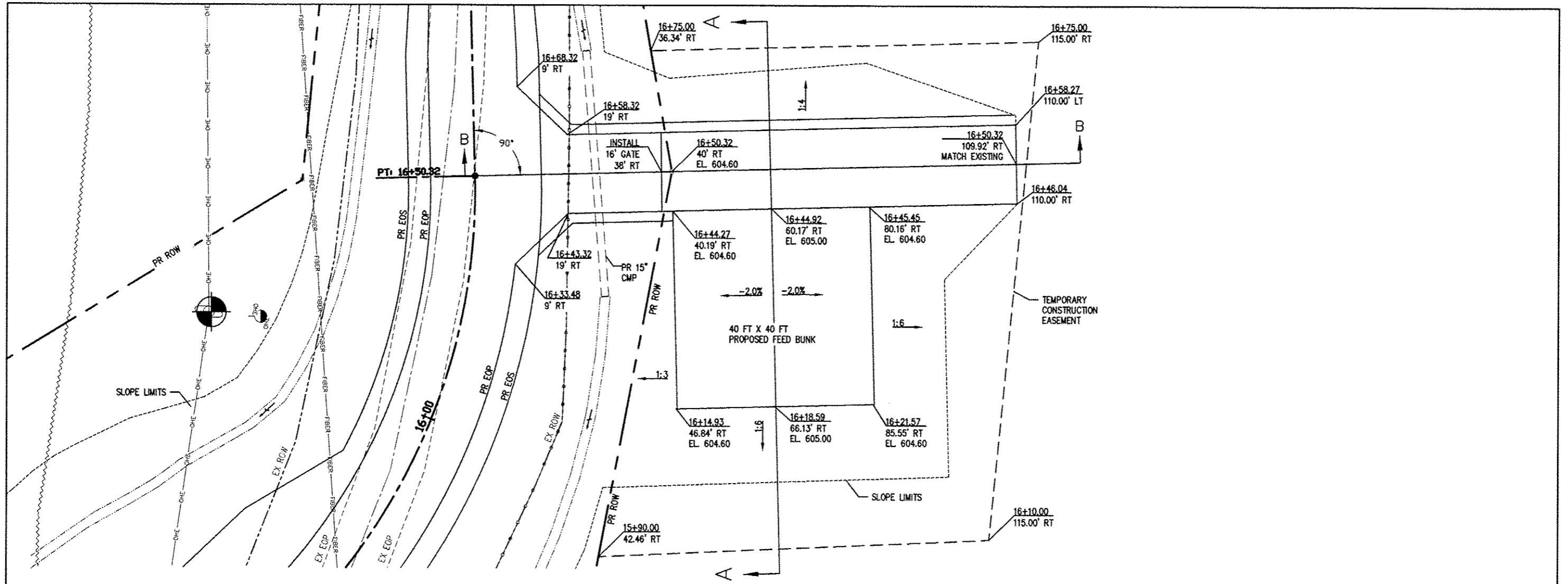
PROJECT: Bridge Replacement #034-4241 CLIENT: Hancock County Engineer

SITE: T.R. 366 (2900 E at Rock Creek) Fountain Green, Illinois

DEPTH (FL)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	RECOVERY (in.)	FIELD TEST RESULTS	SAMPLE NUMBER	LABORATORY TORVANE/HP (pcf)	UNCONFINED COMPRESSIVE STRENGTH (psf)	WATER CONTENT (%)	DRY UNIT WEIGHT (pcf)
0.5									
0.5 - 2.0									
3				2-2-3 N=5	1			19	
10				2-2-3 N=5	2			13	
12				2-3-3 N=6	3			14	
4				5-10-15 N=25	4			13	
14				6-21-24 N=45	5			14	
3				50/3"	6			14	
0				50/0"	7				

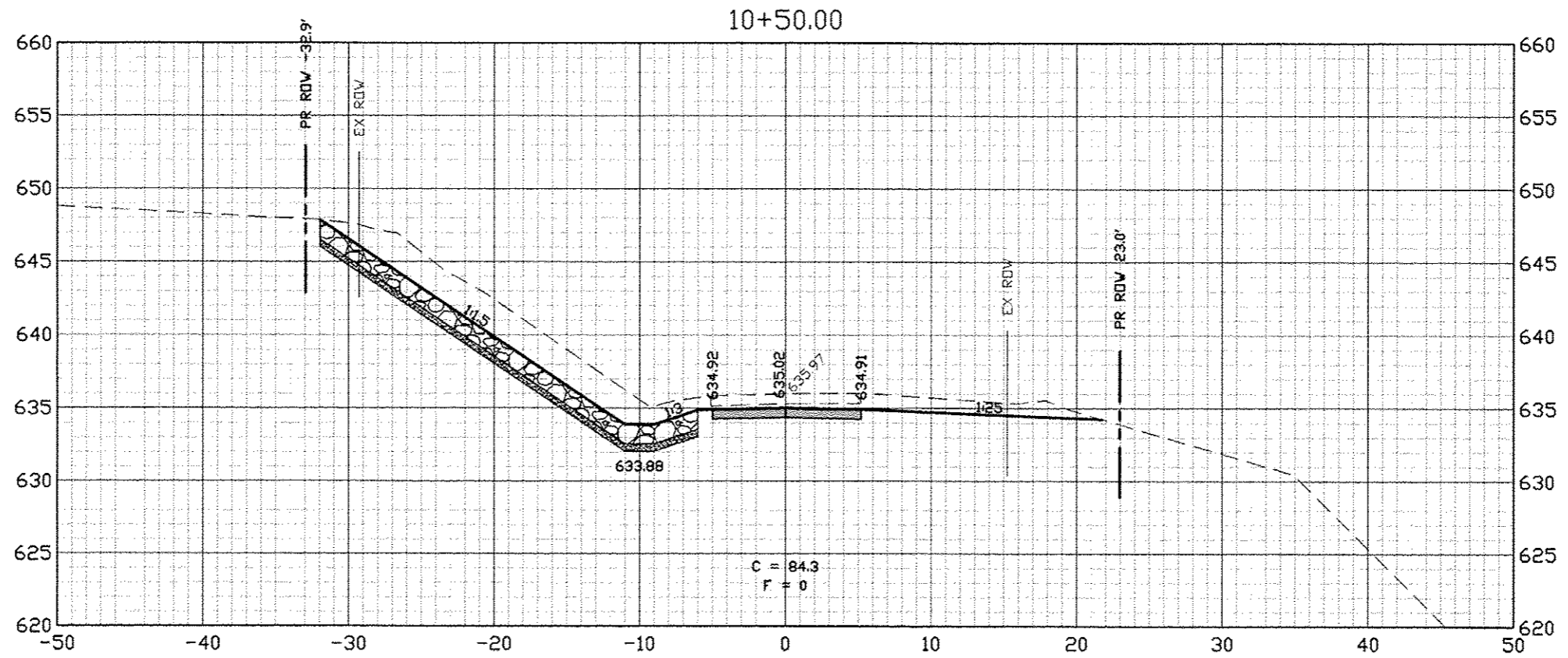
Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic

Advancement Method: Continuous Flight Auger	See Exhibit A-1 for description of field procedures See Appendix B for description of laboratory procedures and additional data (if any).	Notes:
Abandonment Method: Auger Cuttings	See Appendix C for explanation of symbols and abbreviations.	
<b>WATER LEVEL OBSERVATIONS</b>	<b>Terracon</b> 870 40th Avenue Bettendorf, Iowa	Boring Started: 7/14/2014 Drill Rig: RP Project No.: 07145043
9' while drilling 7' 1/4 hr after drilling		Boring Completed: 7/14/2014 Driller: RP Exhibit: A-4

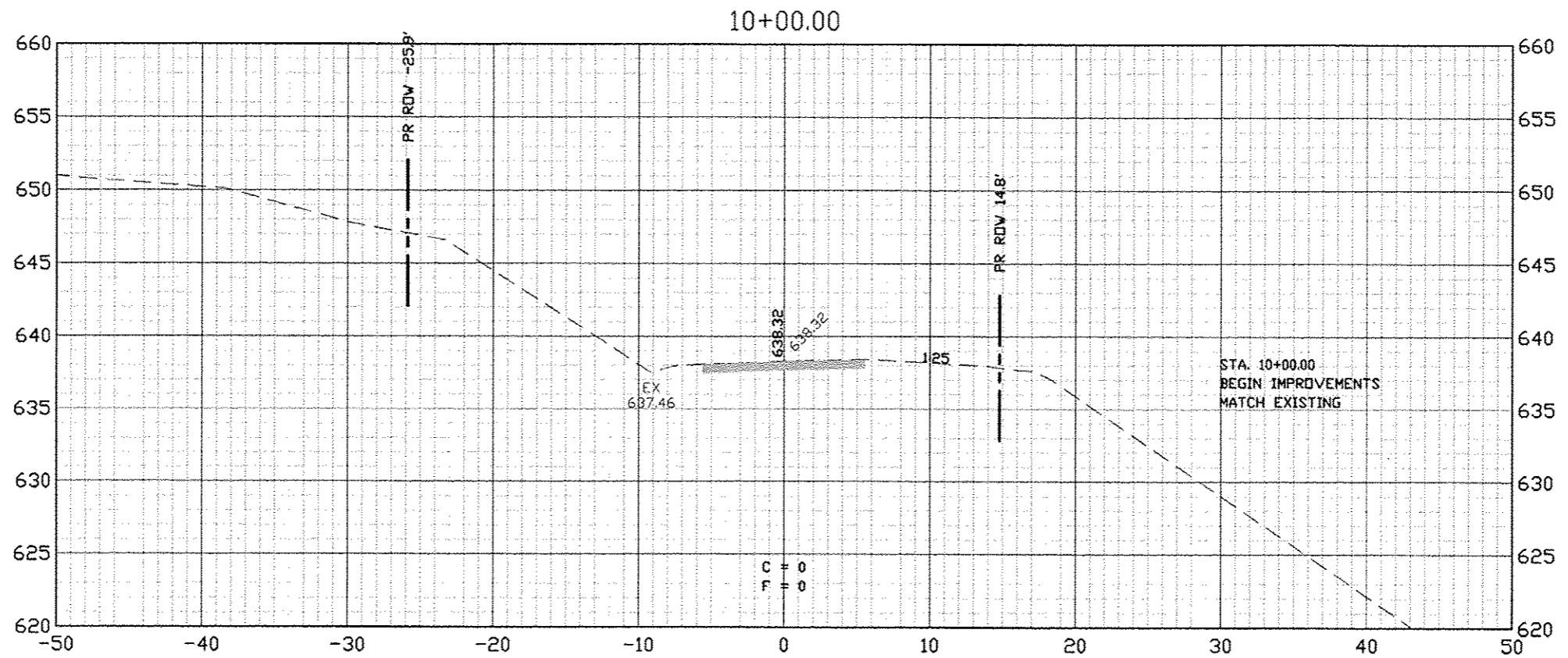


<b>PSBA</b> <small>PLANNING DESIGN AND CONSTRUCTION</small> <small>ARCHITECTS ENGINEERS PLANNERS SURVEYORS</small>	USER NAME *	DESIGNED -	REVISD -	<b>HANCOCK COUNTY HIGHWAY DEPARTMENT</b> 101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321 (217)357-3155	<b>FE STA. 16+50.32 &amp; BUNK DETAIL</b> <b>TR 366 (2900E)</b>		T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE *	CHECKED -	REVISD -		366	12-08115-00-BR	HANCOCK	32	22		
	PLOT DATE *	DRAWN -	REVISD -		SHEET NO. 1 OF 1 SHEETS		CONTRACT NO. 93693		ILLINOIS FED. AID PROJECT		

DATE	
BY	
SURVEYED	
PLOTTED	
REPLACED	
AREAS CHECKED	
FINN	
SURVEY	
NOTE BOOK	
NO.	



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



USER NAME *	DESIGNED - ---	REVISED - ---
	CHECKED - ---	REVISED - ---
PLOT SCALE *	DRAWN - ---	REVISED - ---
	CHECKED - ---	REVISED - ---
PLOT DATE *		

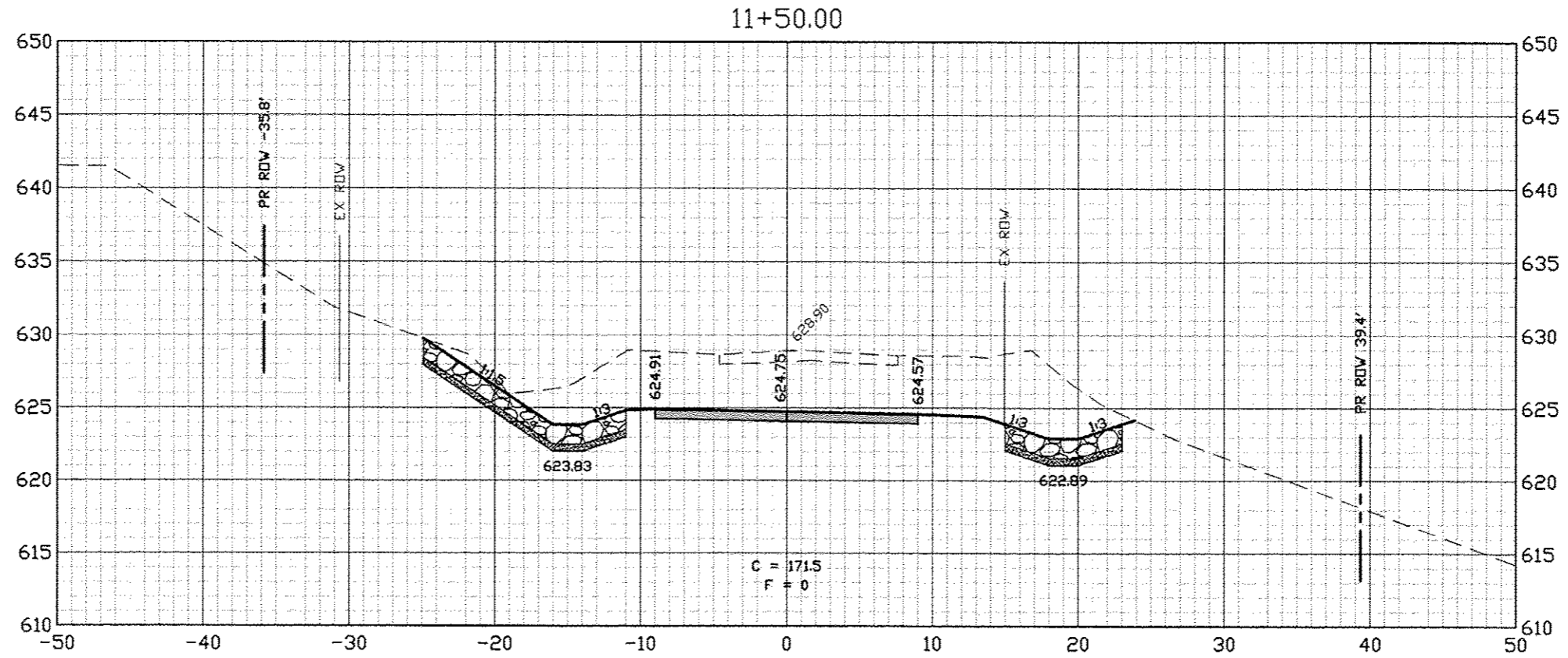
**HANCOCK COUNTY HIGHWAY DEPARTMENT**  
 101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321  
 (217)357-3155

**CROSS SECTIONS**  
**TR 366 (2900E)**

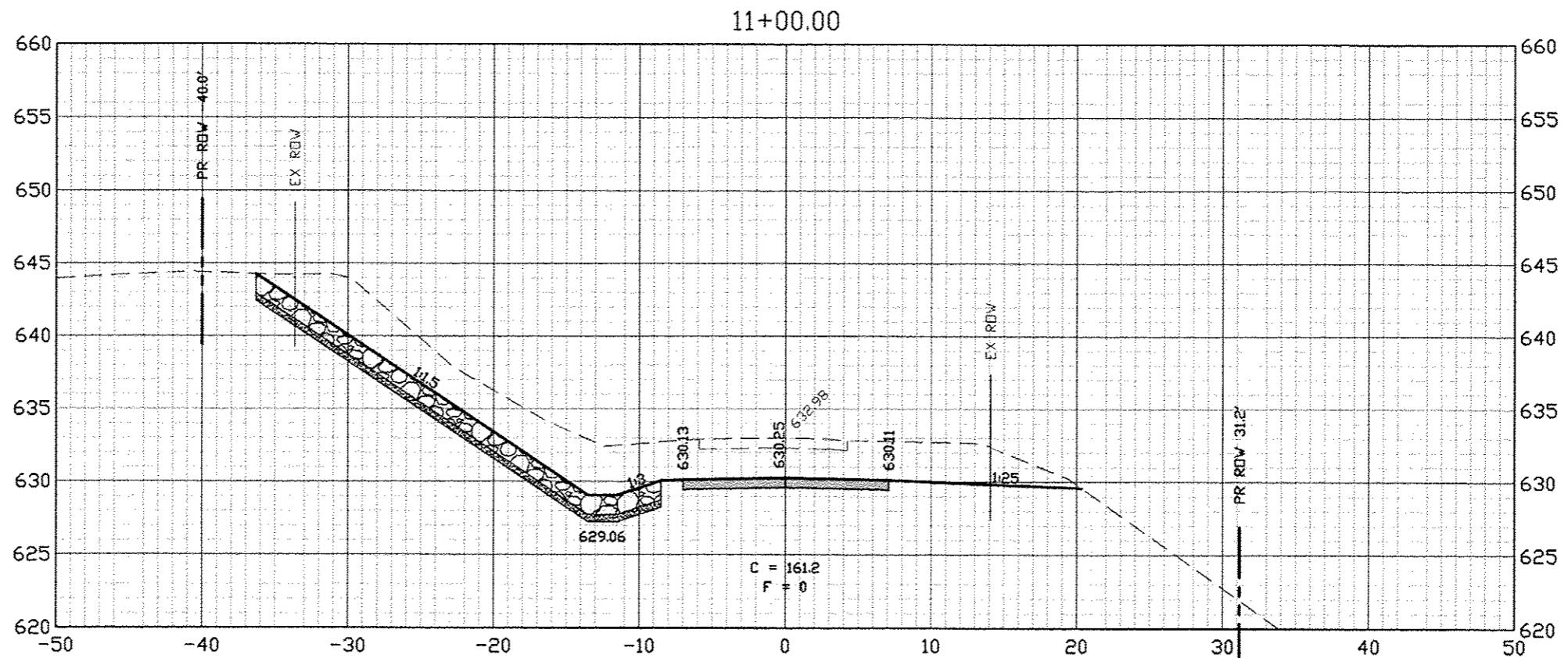
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366	12-08115+00-BR	HANCOCK	32	23
CONTRACT NO. 93693				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	



USER NAME *	DESIGNED - ---	REVISED - ---
PLDT SCALE *	CHECKED - ---	REVISED - ---
PLDT DATE *	DRAWN - ---	REVISED - ---
	CHECKED - ---	REVISED - ---

**HANCOCK COUNTY HIGHWAY DEPARTMENT**  
 101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321  
 (217)357-3155

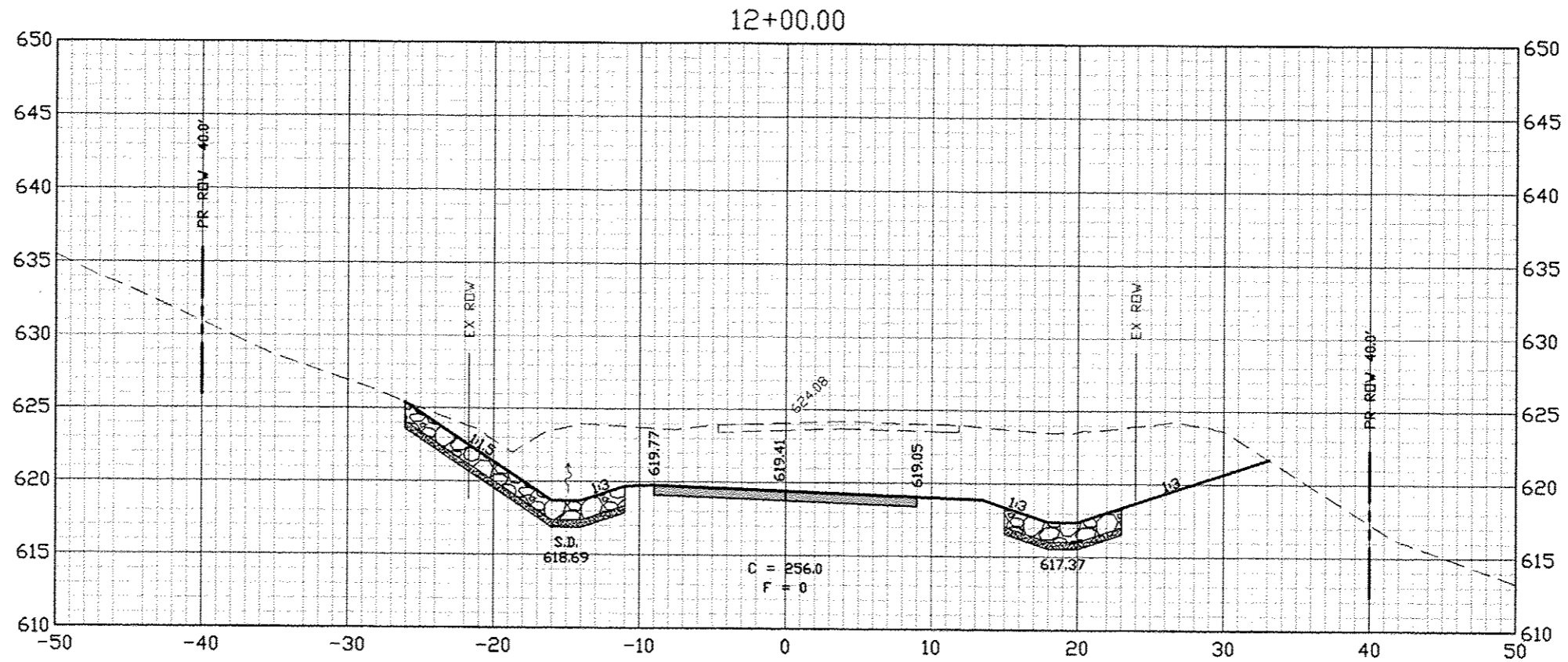
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**TR 366 (2900E)**

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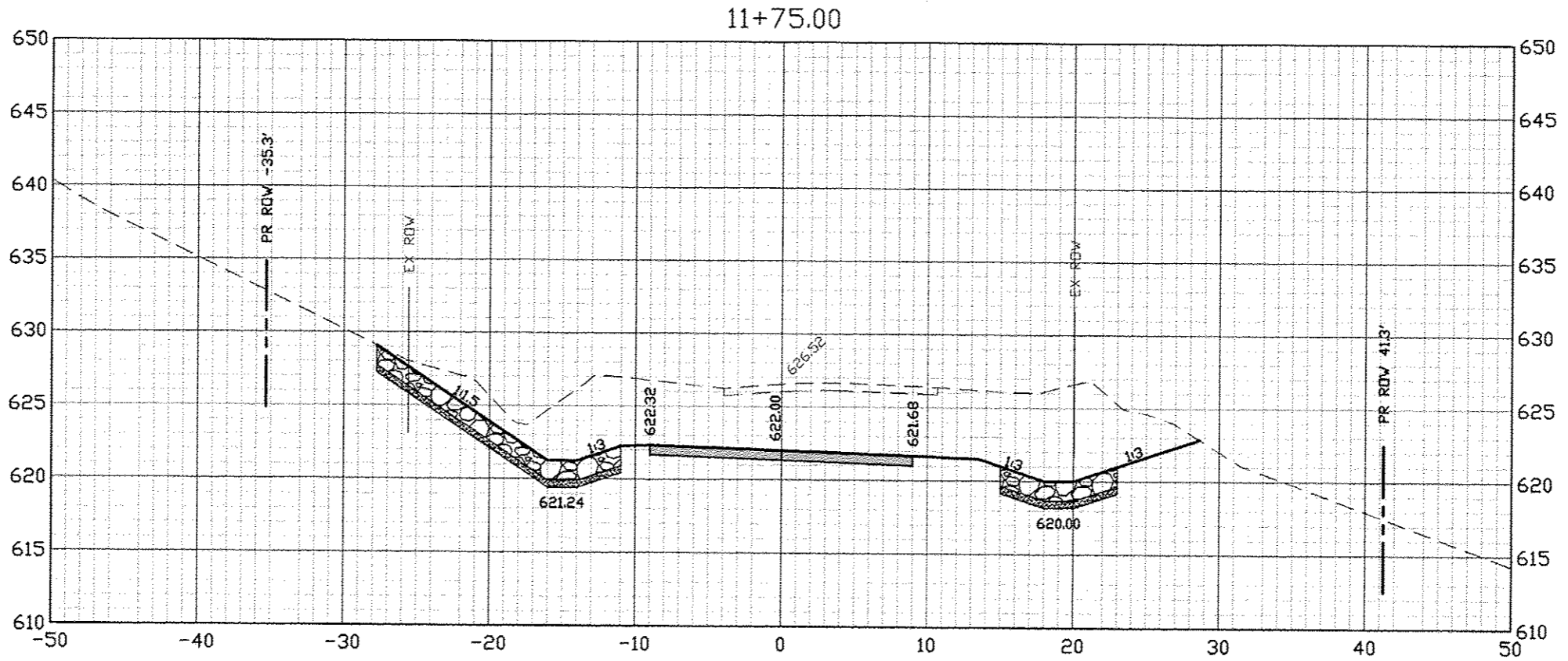
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366	12-08115-00-BR	HANCOCK	32	24
CONTRACT NO. 93693			ILLINOIS FED. AID PROJECT	



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



USER NAME *	DESIGNED - ---	REVISED - ---
PLOT SCALE *	CHECKED - ---	REVISED - ---
PLOT DATE *	DRAWN - ---	REVISED - ---
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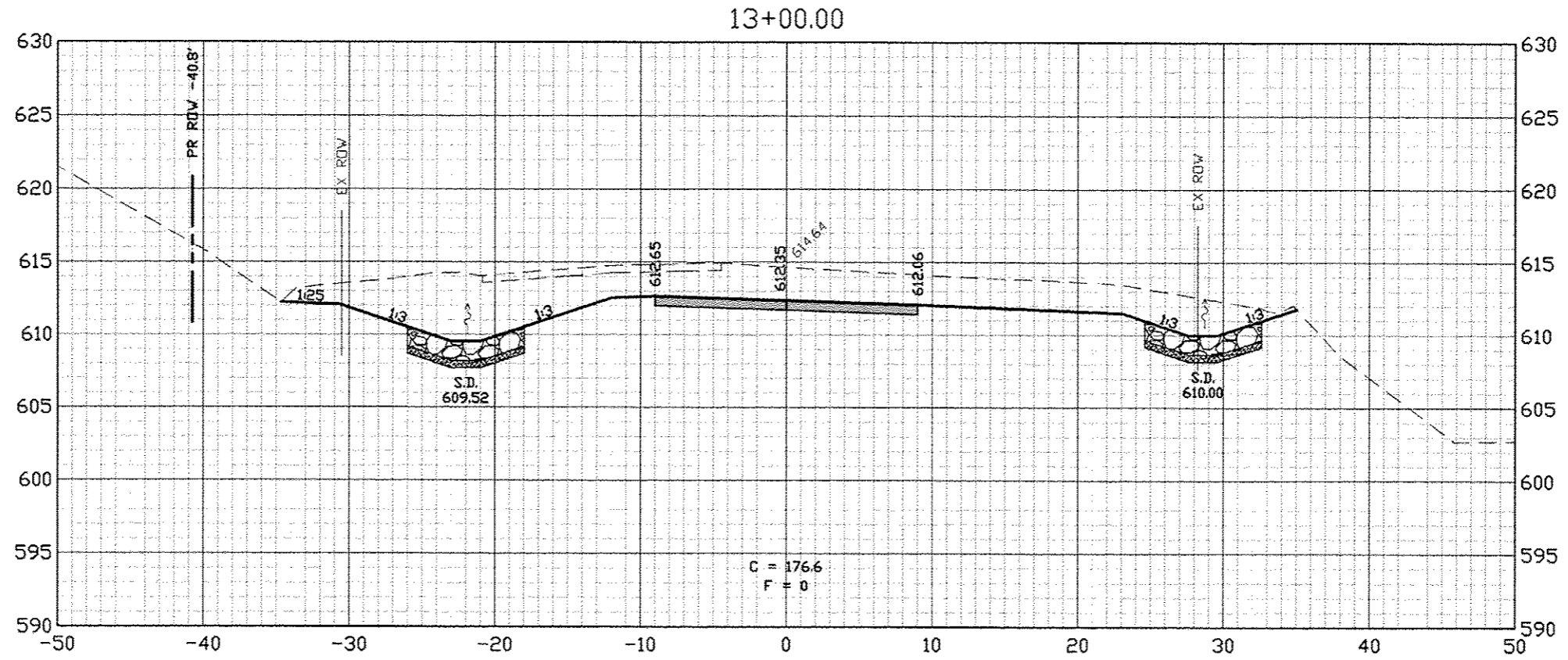
**HANCOCK COUNTY HIGHWAY DEPARTMENT**  
 101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321  
 (217)357-3155

**CROSS SECTIONS**  
**TR 366 (2900E)**

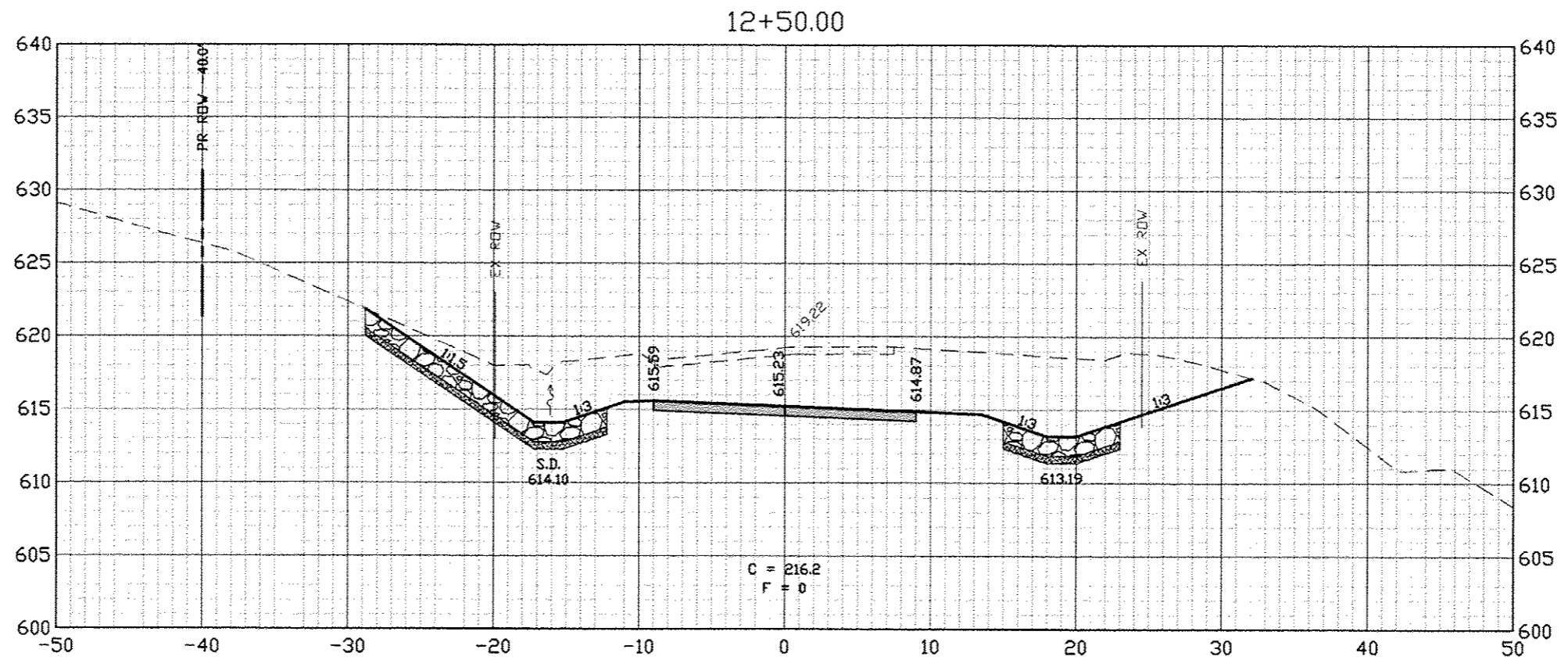
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366	12-08115-00-BR	HANCOCK	32	25
CONTRACT NO. 93693			ILLINOIS FED. AID PROJECT	

DATE	
BY	
SURVEYED	
PLOTTED	
REVISIONS	
NOTE BOOK	
NO.	



DATE	
BY	
SURVEYED	
PLOTTED	
REVISIONS	
NOTE BOOK	
NO.	



**PSBA**  
 PROFESSIONAL SURVEYING & ENGINEERING ASSOCIATES, INC.  
 ARCHITECT, ENGINEER, PLANNER, SURVEYOR

USER NAME *	DESIGNED - ---	REVISED - ---
PLOT SCALE *	CHECKED - ---	REVISED - ---
PLOT DATE *	DRAWN - ---	REVISED - ---
	CHECKED - ---	REVISED - ---

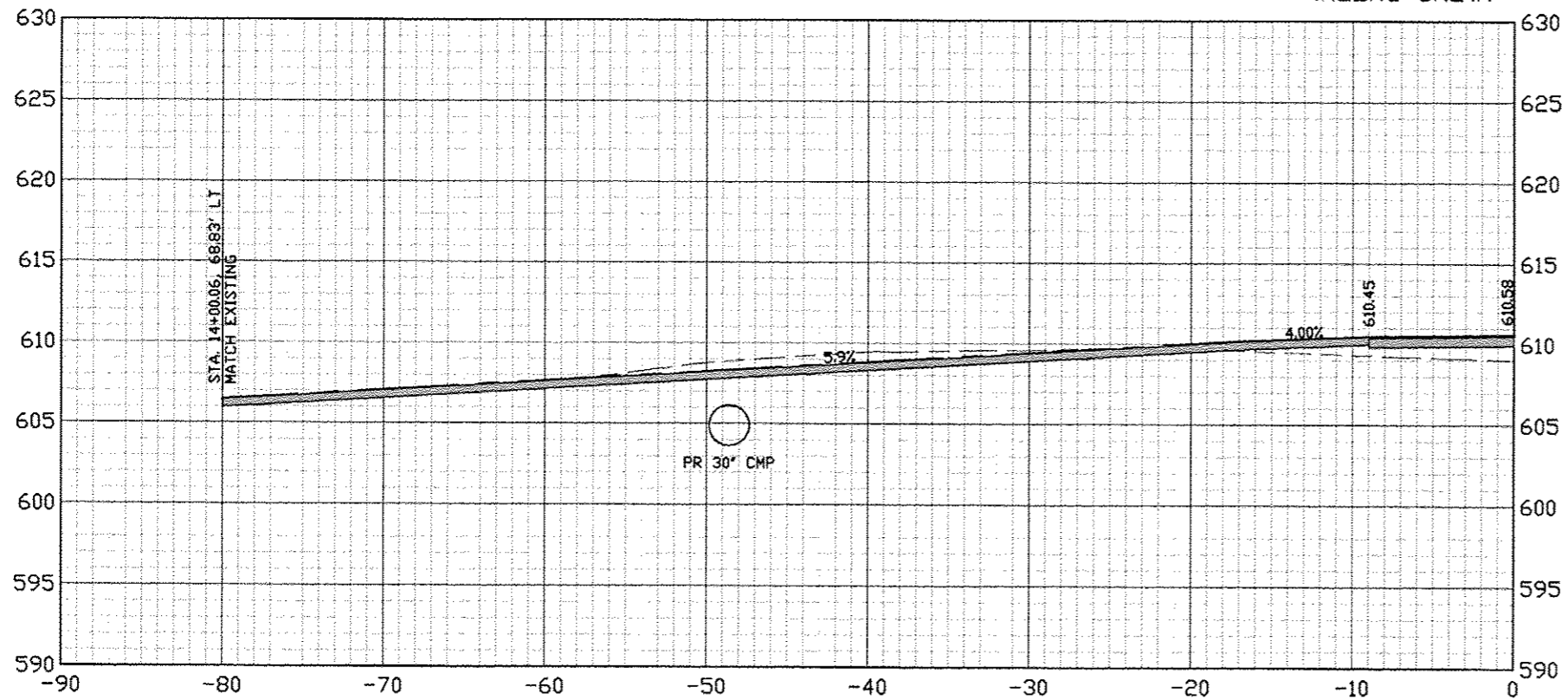
**HANCOCK COUNTY HIGHWAY DEPARTMENT**  
 101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321  
 (217)357-3155

**CROSS SECTIONS**  
**TR 366 (2900E)**

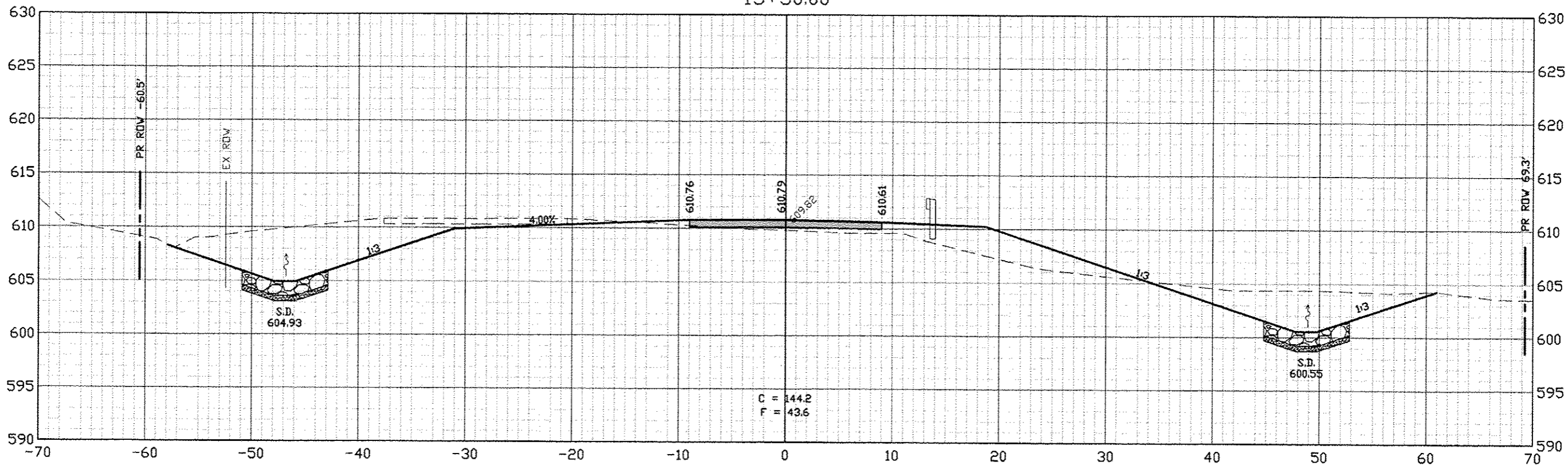
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T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-0815-00-BR	HANCOCK	32	26
CONTRACT NO. 93693				
ILLINOIS FED. AID PROJECT				

(FIELD ENTRANCE 13+65 LT  
(ALONG SKEW))



13+50.00



DATE	
BY	
FINN	
SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL	
SURVEY	
NOTE BOOK	
NO.	



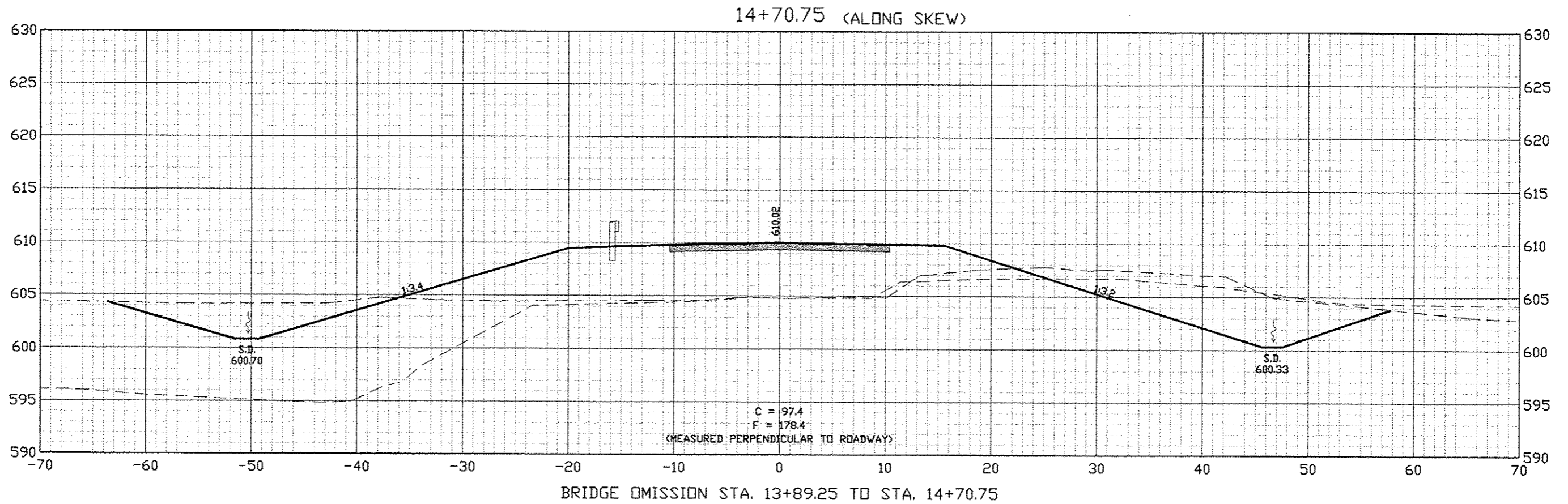
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PLOT SCALE *	CHECKED - ---	REVISED - ---
PLOT DATE *	DRAWN - ---	REVISED - ---
	CHECKED - ---	REVISED - ---

**HANCOCK COUNTY HIGHWAY DEPARTMENT**  
101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321  
(217)357-3155

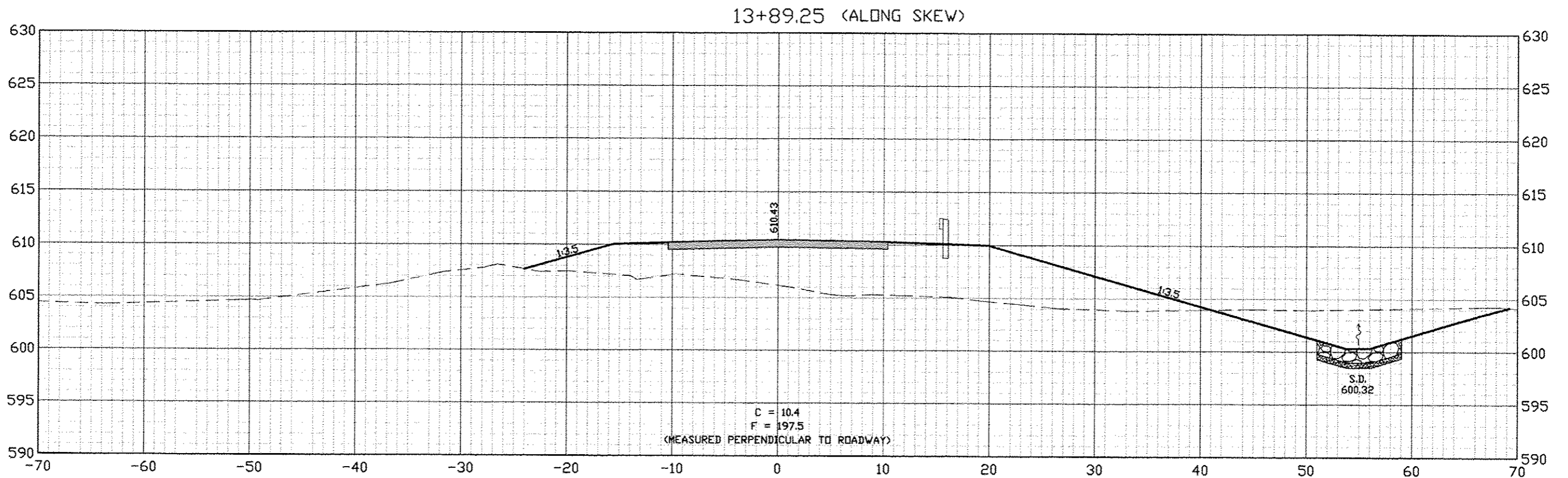
**CROSS SECTIONS**  
**TR 366 (2900E)**  
SCALE: NOTED | SHEET NO. 5 OF 10 SHEETS | STA. 13+60.00 TO STA. 13+65.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-08115-00-BR	HANCOCK	32	27
CONTRACT NO. 93693			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINISHED SURVEY	
REVISIONS	
NOTED	
PLANNED	
DESIGNED	
CHECKED	
DRAWN	
DATE	



DATE	
BY	
ORIGINAL SURVEY	
REVISIONS	
NOTED	
PLANNED	
DESIGNED	
CHECKED	
DRAWN	
DATE	



USER NAME *	DESIGNED - ---	REVISED - ---
PLOT SCALE *	CHECKED - ---	REVISED - ---
PLOT DATE *	DRAWN - ---	REVISED - ---
	CHECKED - ---	REVISED - ---

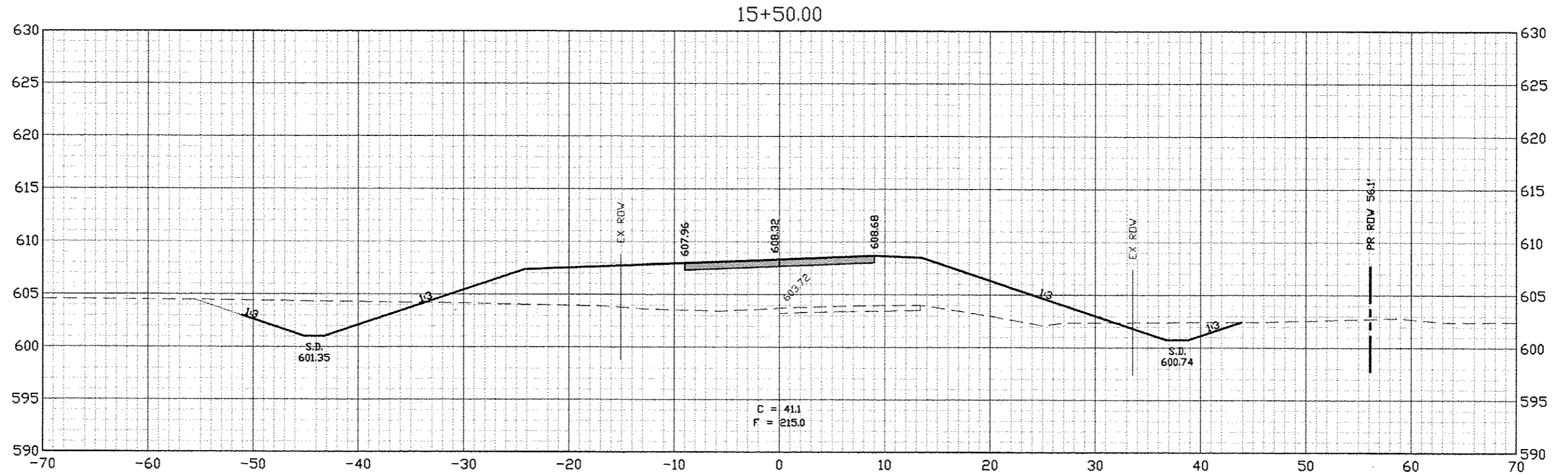
**HANCOCK COUNTY HIGHWAY DEPARTMENT**  
101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321  
(217)357-3155

**CROSS SECTIONS**  
**TR 366 (2900E)**

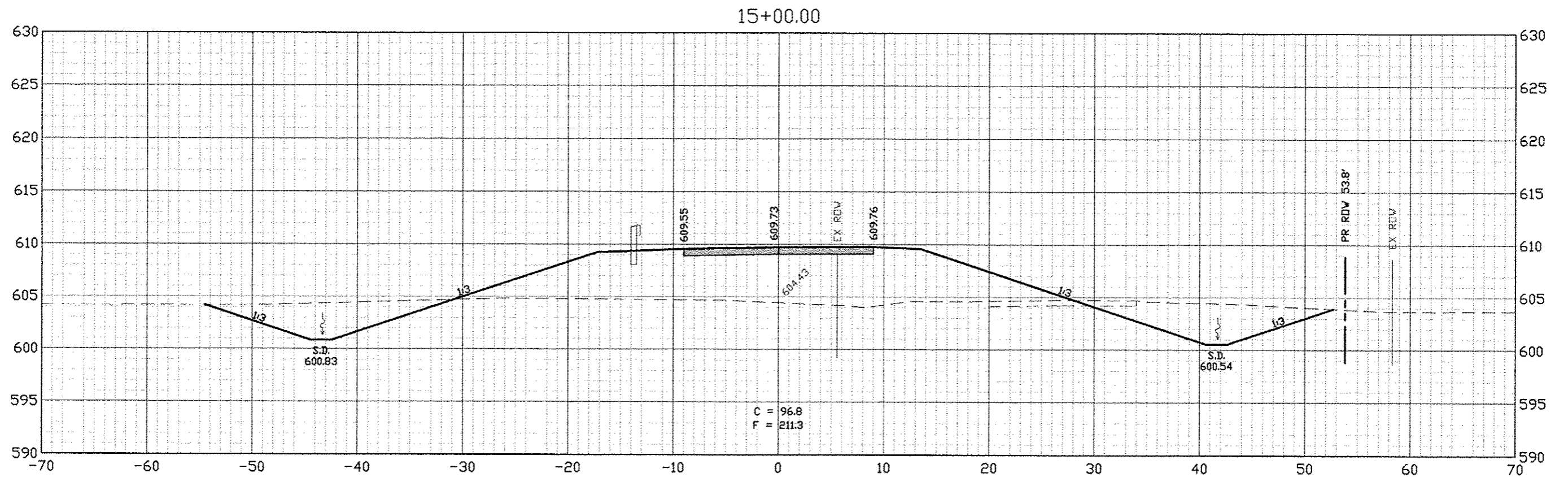
SCALE: NOTED    SHEET NO. 6 OF 10 SHEETS    STA. 13+89.25 TO STA. 14+70.75

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-08115-00-BR	HANCOCK	32	28
CONTRACT NO. 93693			ILLINOIS FED. AID PROJECT	

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



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



USER NAME *	DESIGNED - ---	REVISED - ---
PLOT SCALE *	CHECKED - ---	REVISED - ---
PLOT DATE *	DRAWN - ---	REVISED - ---
	CHECKED - ---	REVISED - ---

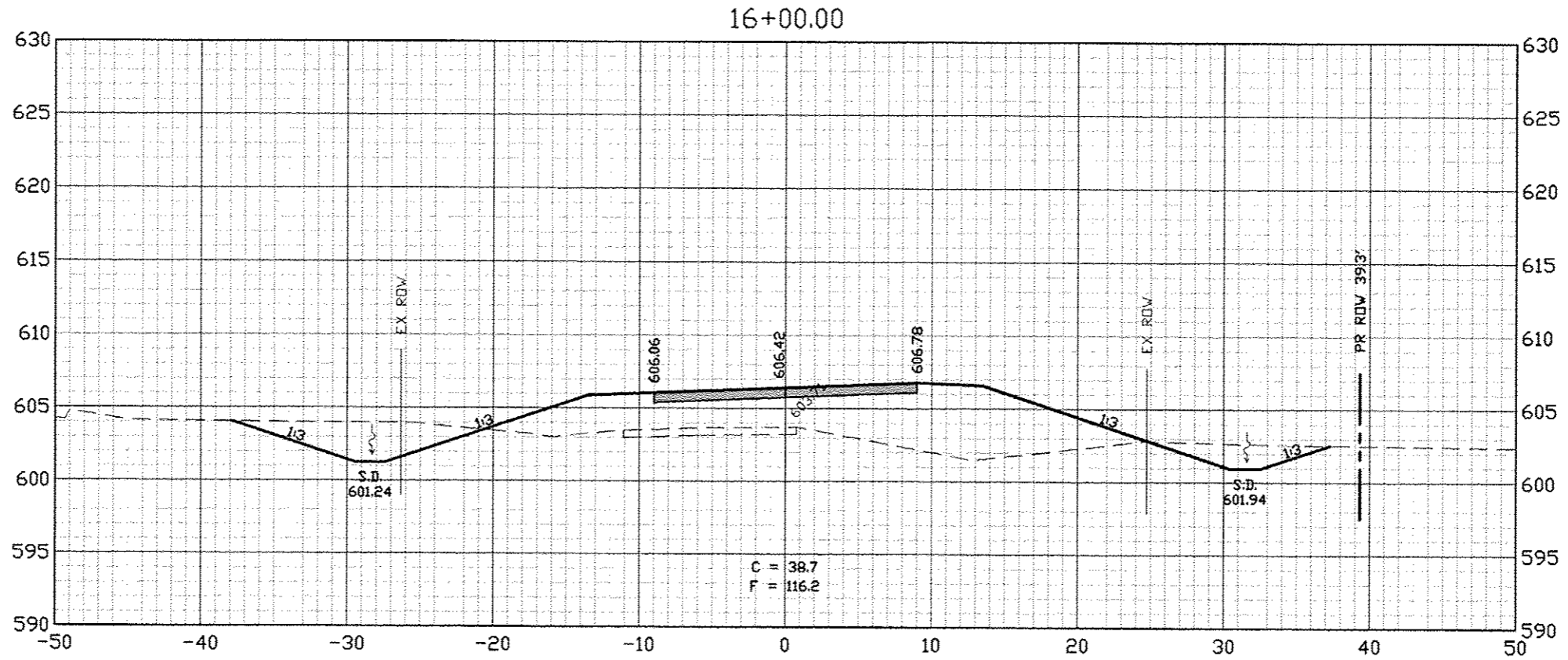
**HANCOCK COUNTY HIGHWAY DEPARTMENT**  
 101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321  
 (217)357-3155

**CROSS SECTIONS**  
**TR 366 (2900E)**

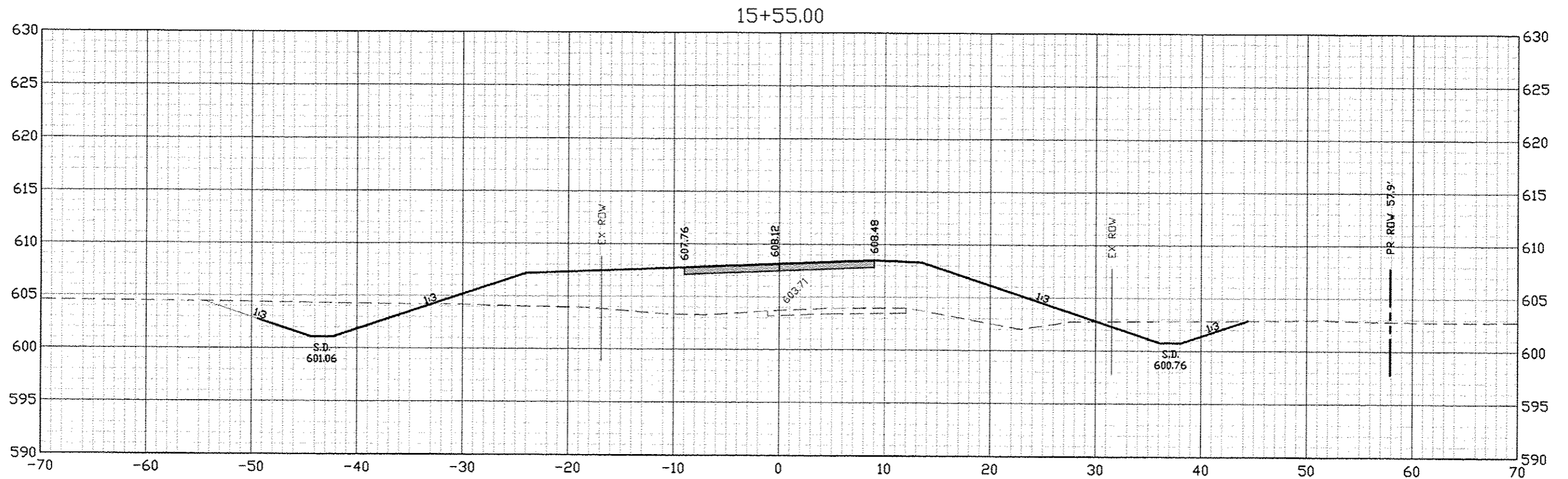
SCALE: NOTED    SHEET NO. 7 OF 10 SHEETS    STA. 15+00.00 TO STA. 15+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-08115-00-BR	HANCOCK	32	29
			CONTRACT NO. 93693	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
DESIGNED	
CHECKED	
PLOTTED	
REVISIONS	
NO.	
FINISHED SURVEY	
NOTE BOOK	
NO.	



DATE	
BY	
DESIGNED	
CHECKED	
PLOTTED	
REVISIONS	
NO.	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



USER NAME *	DESIGNED - ---	REVISED - ---
PLOT SCALE *	CHECKED - ---	REVISED - ---
PLOT DATE *	DRAWN - ---	REVISED - ---
	CHECKED - ---	REVISED - ---

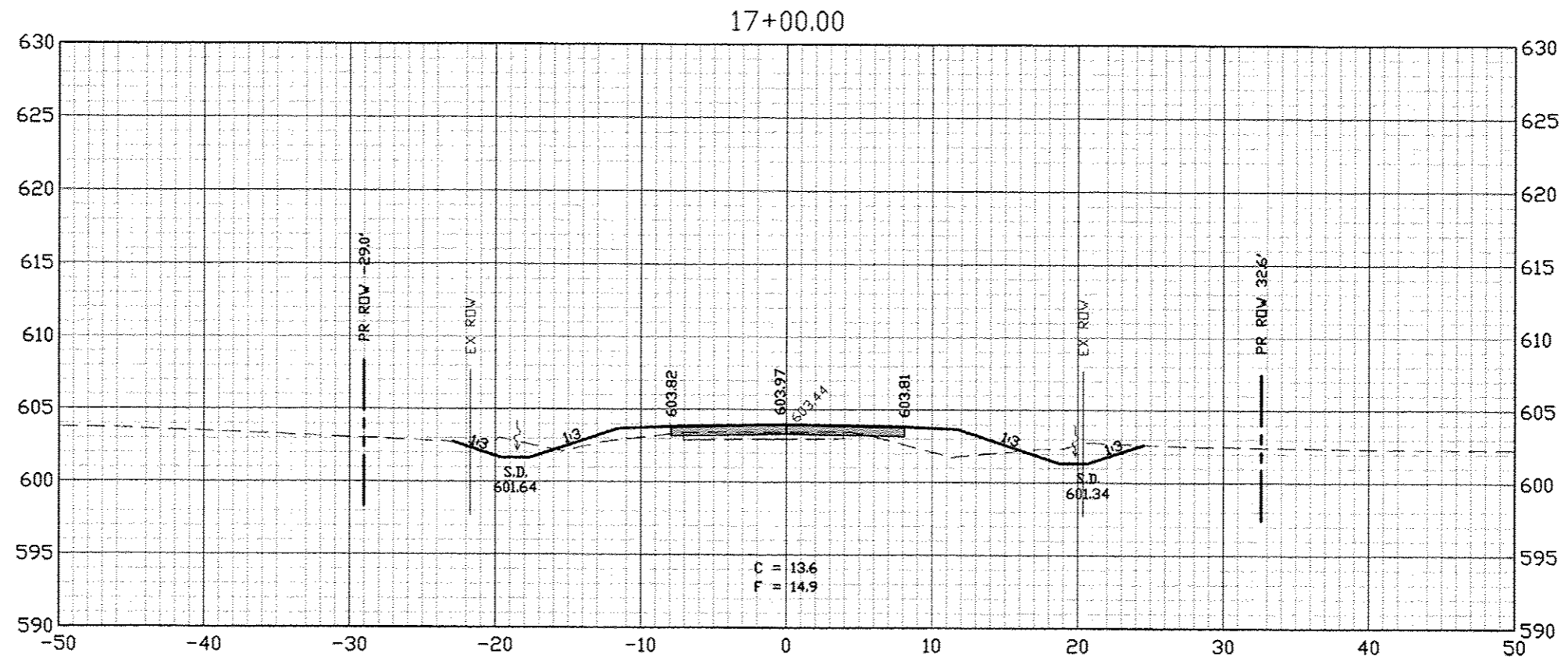
**HANCOCK COUNTY HIGHWAY DEPARTMENT**  
 101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321  
 (217)357-3155

**CROSS SECTIONS**  
**TR 366 (2900E)**  
 SCALE: NOTED SHEET NO. 8 OF 10 SHEETS STA. 15+55.00 TO STA. 16+00.00

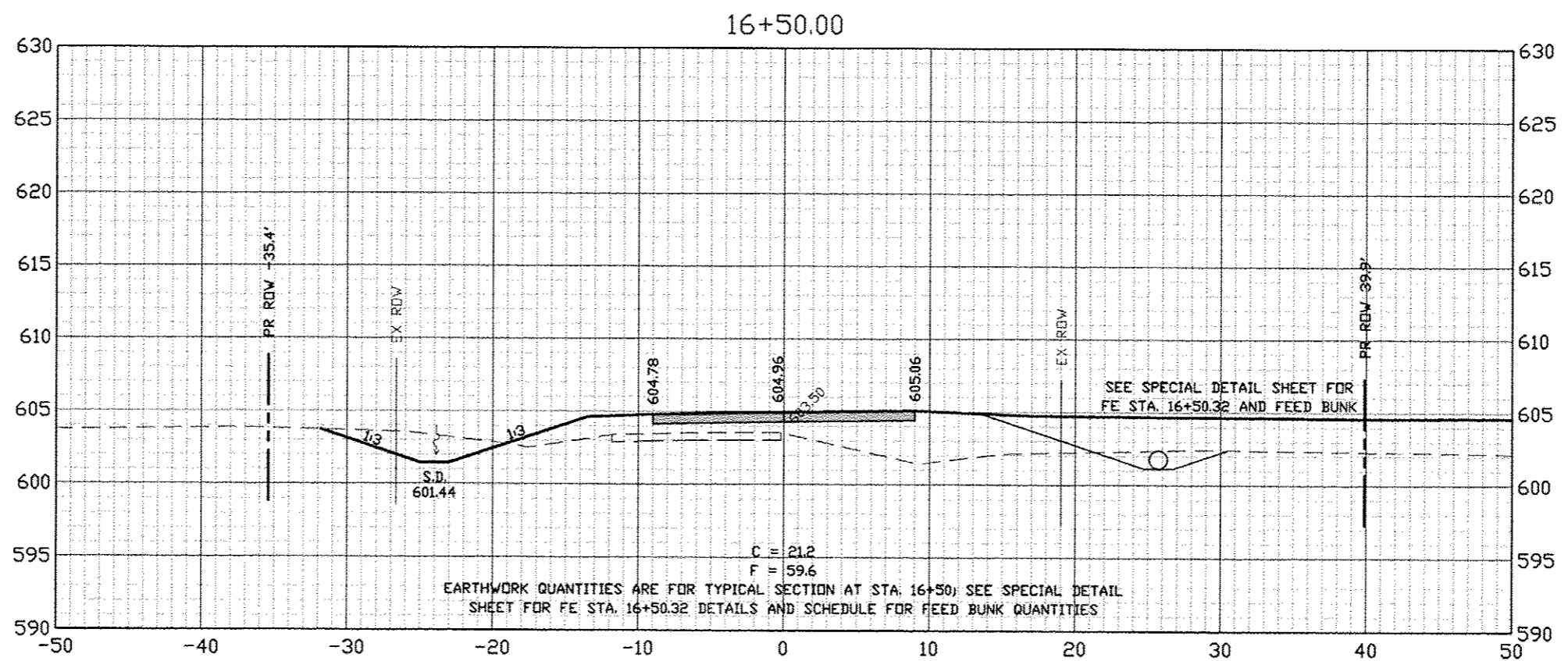
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-08115-00-BR	HANCOCK	32	30
CONTRACT NO. 93693				

ILLINOIS FED. AID PROJECT

DATE	BY
SURVEYED	
PROFITED	
NOTE BOOK	
AREAS CHECKED	
NO.	



DATE	BY
SURVEYED	
PROFITED	
NOTE BOOK	
AREAS CHECKED	
NO.	



USER NAME *	DESIGNED - ---	REVISED - ---
PLOT SCALE *	CHECKED - ---	REVISED - ---
PLOT DATE *	DRAWN - ---	REVISED - ---
	CHECKED - ---	REVISED - ---

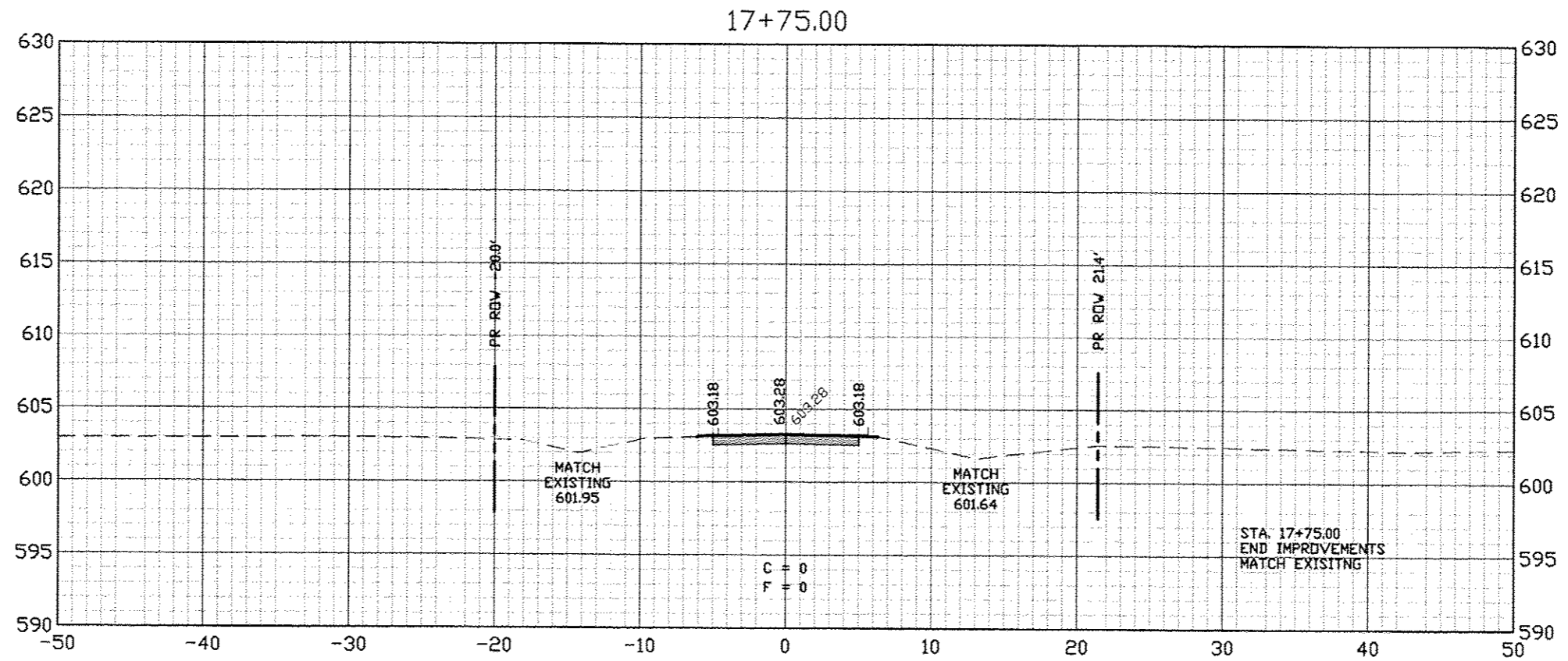
**HANCOCK COUNTY HIGHWAY DEPARTMENT**  
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**CROSS SECTIONS**  
**TR 366 (2900E)**

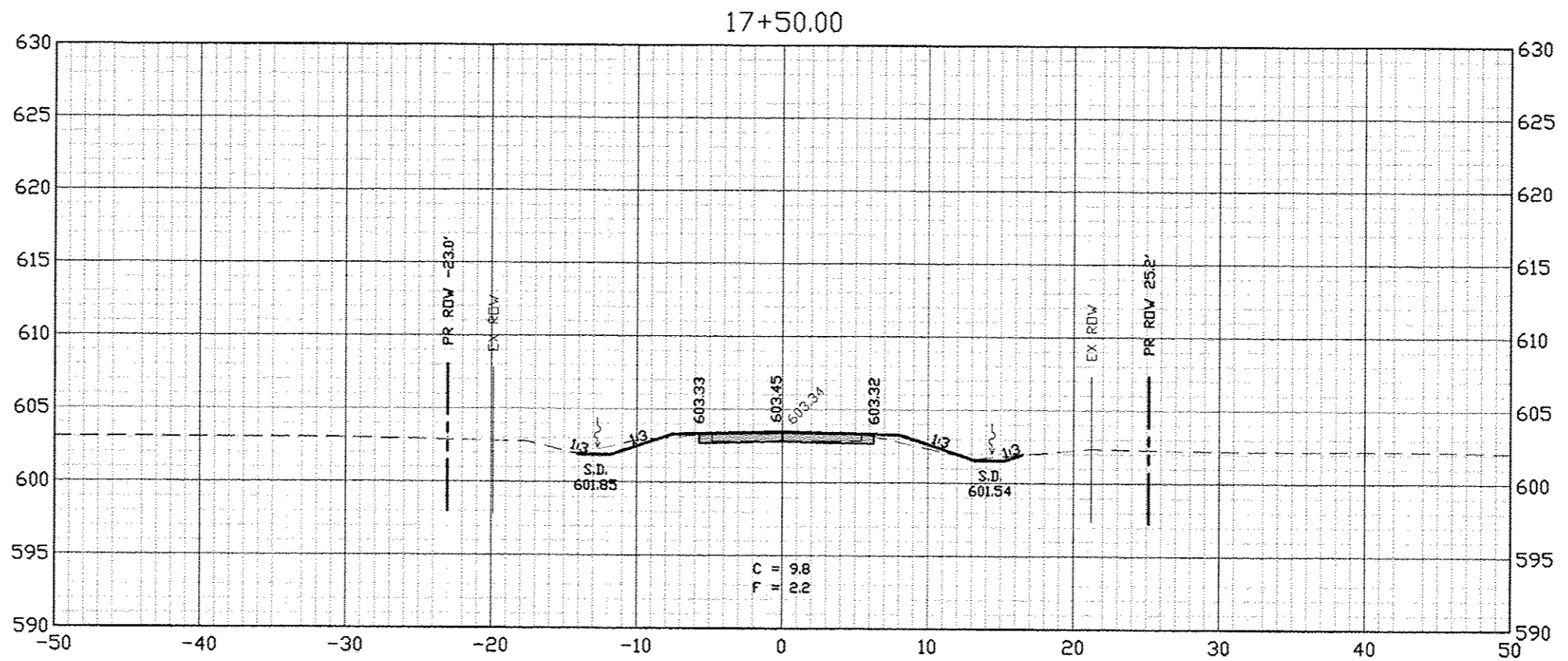
SCALE: NOTED SHEET NO. 9 OF 10 SHEETS STA. 16+50.00 TO STA. 17+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-0815-00-BR	HANCOCK	32	31
CONTRACT NO. 93693				
ILLINOIS FED. AID PROJECT				

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



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



USER NAME *	DESIGNED - ---	REVISED - ---
PLOT SCALE *	CHECKED - ---	REVISED - ---
PLOT DATE *	DRAWN - ---	REVISED - ---
	CHECKED - ---	REVISED - ---

**HANCOCK COUNTY HIGHWAY DEPARTMENT**  
 101 S. FIRST ST. (PO BOX 379) CARTHAGE, IL 62321  
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**CROSS SECTIONS**  
**TR 366 (2900E)**

SCALE: NOTED SHEET NO. 10 OF 10 SHEETS STA. 17+50.00 TO STA. 17+75.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
366	12-08115-00-BR	HANCOCK	32	32
CONTRACT NO. 93693				

ILLINOIS FED. AID PROJECT