

06-15-12 LETTING ITEM 059

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
PLANS FOR PROPOSED  
HIGHWAY BRIDGE PROGRAM  
MASON COUNTY

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
572	10-00016-02-BR	MASON	22	1
FED. ROAD DIST. NO. 7	ILLINOIS	CONTRACT NO. 93568		

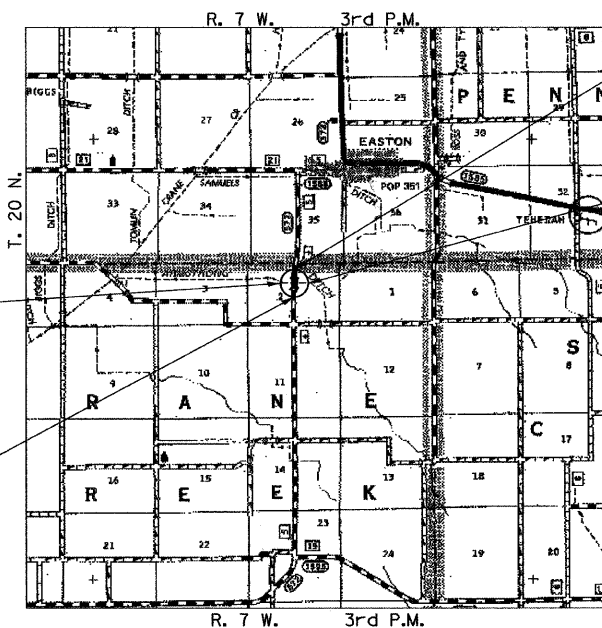
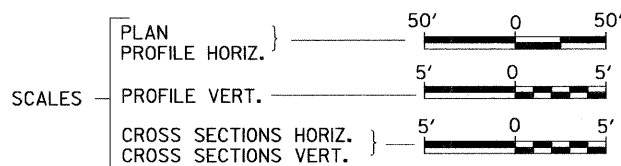
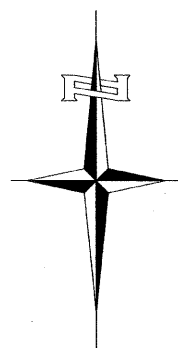
SECTION 10-00016-02-BR  
F.A.S. 572 (CH 5) OVER DUFF ARMSTRONG DITCH  
PROJECT NO. BRS-0572(305)  
JOB NUMBER C-96-206-12

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	GENERAL NOTES, DETAILS, TYPICAL SECTIONS
3.	SUMMARY OF QUANTITIES, SCHEDULES OF QUANTITIES
4.	TRAFFIC CONTROL PLAN
5.	STORM WATER POLLUTION PREVENTION PLAN
6.	PLAN AND PROFILE
7.-13.	STRUCTURE PLANS
14.-22.	CROSS SECTIONS

REQUIRED HIGHWAY STANDARDS

- 000001-06
- 280001-06
- 515001-03
- 630301-05
- 635006-03
- 701901-02
- BLR 21-9
- BLR 26-3
- BLR 27-1



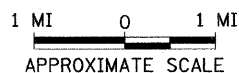
PROPOSED STRUCTURE SN 063-3029  
SINGLE SPAN 27" PPC DK BM STRUCTURE  
ON SPILL THRU PILE BENT ABUTMENTS  
61'-0" BK TO BK, AND 30'-0" O TO O DECK,  
NO SKEW

SECTION 10-00016-02-BR  
BEGINS  
STATION 26+75.00

SECTION 10-00016-02-BR  
ENDS  
STATION 34+00.00

EXISTING STRUCTURE 063-3028  
SINGLE SPAN REINFORCED CONCRETE DECK  
ON STEEL GIRDERS SUPERSTRUCTURE ON  
CONCRETE CLOSED ABUTMENTS  
24'-0" BK. TO BK., AND 31'-0" O. TO O.,  
NO SKEW (TO BE REMOVED)

LOCATION MAP



NET LENGTH OF PROJECT = 725.00 FEET = 0.137 MILES  
DESIGN CLASSIFICATION: MAJOR-COLLECTOR (NON-URBAN)  
DESIGN ADT = 335 (2011)  
DESIGN SPEED = 40 MPH



UTILITY COMPANIES

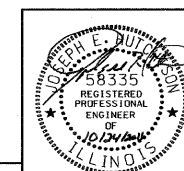
FRONTIER COMMUNICATIONS  
MT. PULASKI, ILLINOIS

MENARD ELECTRIC COOPERATIVE  
PETERSBURG, ILLINOIS

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

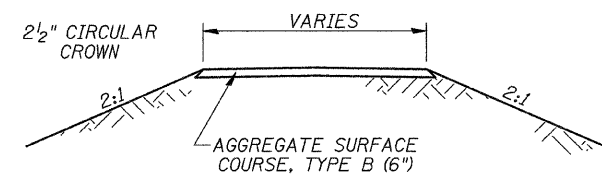
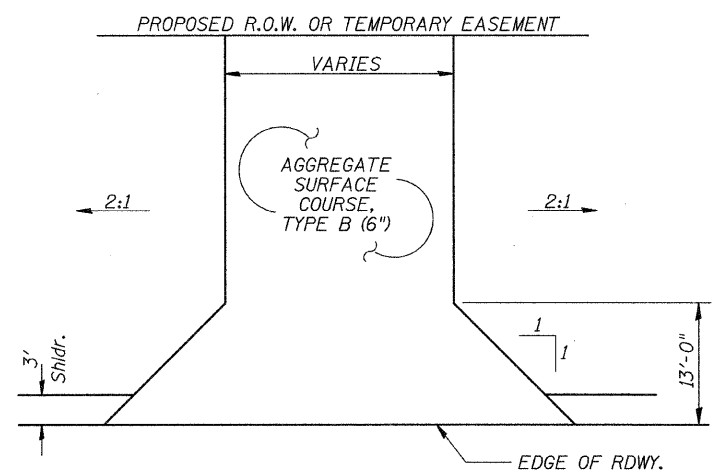
CONTRACT NO. 93568

Hutchison Engineering, Inc.  
JACKSONVILLE ILLINOIS



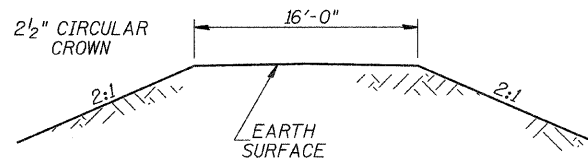
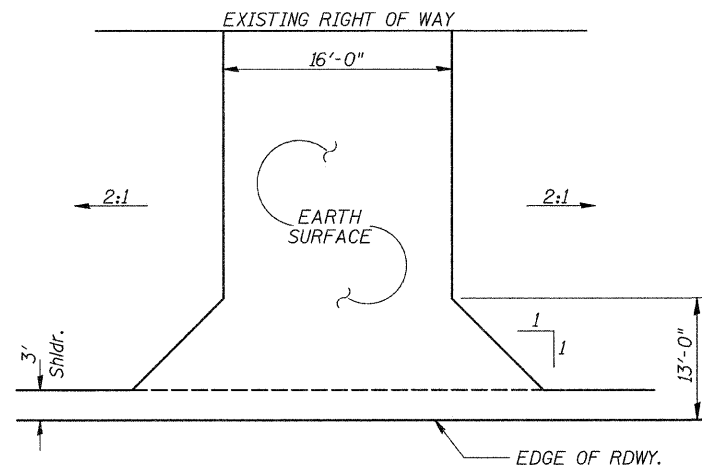
10/24/2012  
SIGNATURE  
ENGINEERS SEAL

APPROVED	10-27	2011
	<i>Will R. Pugh</i>	MASON COUNTY ENGINEER
PASSED	March 13	2012
	<i>Jessie Foster</i>	DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS
PASSED	March 13	2012
	<i>Ron Lehambeau</i>	DISTRICT SIX ENGINEER OF CONSTRUCTION
Released For Bid Based on Limited Review	March 13	2012
	<i>Roger Druebel</i>	DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER
		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



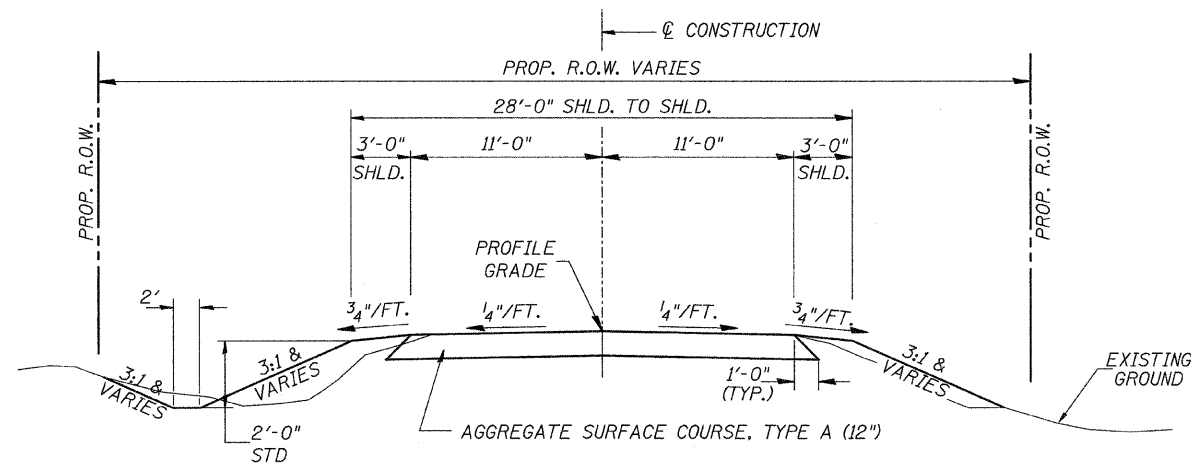
**FIELD/PRIVATE ENTRANCES**

STA 29+50 LT - PE (14' WIDE)  
 STA 30+75 RT - FE (16' WIDE)  
 STA 31+18 LT - FE (16' WIDE)



**FIELD ENTRANCE**

STA 33+50 RT

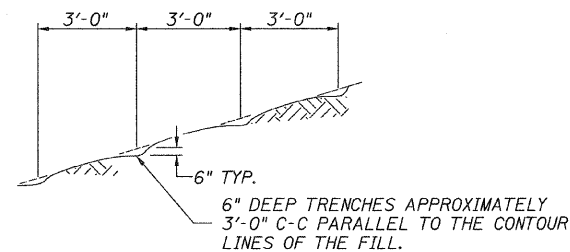


CONSTRUCT GUARDRAIL  
 SHOULDER WIDENING IN  
 ACCORDANCE WITH STD 630301

**PROPOSED TYPICAL SECTION**

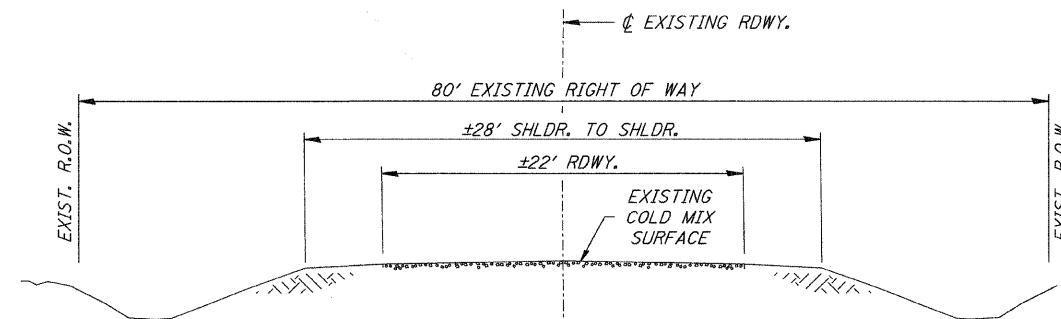
STA. 26+75.00 TO STA. 29+69.50  
 STA. 30+30.50 TO STA. 34+00.00  
 EXCEPT TRANSITIONS

BRIDGE OMISSION  
 STA. 29+69.50 TO STA. 30+30.50



NOTE: ALL SLOPES 3:1 OR STEEPER AND GREATER THAN 5' IN HEIGHT SHALL BE CONTOUR PLOWED AS SHOWN IN DETAIL, COST SHALL BE INCLUDED WITH SEEDING, CLASS 2 (SPECIAL).

**DETAIL OF CONTOUR PLOWING**



**EXISTING TYPICAL SECTION**

**GENERAL NOTES**

PLAN QUANTITIES FOR TREE REMOVAL HAVE BEEN BASED ON ALL TREES WITHIN THE PROPOSED RIGHT OF WAY. THIS QUANTITY MAY BE REVISED DURING CONSTRUCTION, AT THE DIRECTION OF THE ENGINEER, BY DELETING FROM THE TREE REMOVAL QUANTITIES, SUCH TREES THAT DO NOT INTERFERE WITH THE PROPOSED CONSTRUCTION.

THE REMOVAL OF EXISTING COLD MIX SURFACE AND GRAVEL OR CRUSHED STONE BASE COURSE WHICH MAY BE NECESSARY FOR THE CONSTRUCTION OF THE NEW BRIDGE SHALL BE REMOVED AS EARTH EXCAVATION AND NO COMPENSATION WILL BE ALLOWED FOR ADDITIONAL LABOR OR EQUIPMENT REQUIRED.

ALL WASTE OR UNDESIRABLE MATERIAL AS IDENTIFIED BY THE ENGINEER SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY AT THE CONTRACTOR'S EXPENSE.

ALL EXISTING PRIVATELY OWNED UTILITIES REQUIRING ADJUSTMENT WILL BE MADE BY THE UTILITY COMPANY INVOLVED. WHERE NO PROVISIONS HAVE BEEN MADE FOR ADJUSTMENTS ON THE PLANS, NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCES CAUSED BY THE SAID UTILITY ADJUSTMENTS.

THE PROFILE GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND IN THE STATION CROSS SECTIONS ARE TO THE TOP OF THE FINISHED SURFACE.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST KNOWLEDGE OF THE COUNTY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL INDEMNIFY THE COUNTY, ITS OFFICERS AND EMPLOYEES AGAINST ALL CLAIMS DUE TO DAMAGE TO CORPORATE OR PRIVATE PROPERTY RESULTING FROM HIS CONSTRUCTION OPERATIONS AS DESCRIBED IN ARTICLES 107.20 AND 107.26 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR MAY BE REQUIRED TO CONDUCT SOME OF HIS GRADING AND TRENCHING OPERATIONS AROUND TRANSMISSION POLES AND UNDER TRANSMISSION LINES. THE ADDED COST OF SO DOING SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

ALL ELEVATIONS SHOWN REFER TO AN U.S.G.S. MEAN SEA LEVEL DATUM.

FILE NAME = V:\Bridge\2964 - Mason\2964t001.dgn	USER NAME = othomas	DESIGNED -	REVISED -	<b>MASON COUNTY COUNTY HIGHWAY 5 OVER DUFF ARMSTRONG DITCH</b>	<b>GENERAL NOTES, DETAILS, TYPICAL SECTIONS</b>	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
PLOT SCALE = 1,000 ft / IN.	CHECKED -	REVISED -	572			10-00016-02-BR	MASON	22	2			
PLOT DATE = 10/21/2011	DATE -	REVISED -	SCALE: NONE			SHEET NO. 1 OF 1 SHEETS		STA. 26+75.00 TO STA. 34+00.00		CONTRACT NO. 93568		
						FED. ROAD DIST. NO. 7   ILLINOIS		FED. AID PROJECT BRS-05723051				

**SUMMARY OF QUANTITIES**

CODE NO.	ITEM	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	126
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	94
20200100	EARTH EXCAVATION	CU YD	660
20300100	CHANNEL EXCAVATION	CU YD	175
20400800	FURNISHED EXCAVATION	CU YD	2,180
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	500
28000305	TEMPORARY DITCH CHECKS	FOOT	48
28000400	PERIMETER EROSION BARRIER	FOOT	985
28000500	INLET AND PIPE PROTECTION	EACH	4
28100209	STONE RIPRAP, CLASS A5	TON	400
28200200	FILTER FABRIC	SQ YD	330
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	1,069
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	100
① 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	181
50200100	STRUCTURE EXCAVATION	CU YD	10
50300225	CONCRETE STRUCTURES	CU YD	25.4
50300280	CONCRETE ENCASEMENT	CU YD	2.6
① 50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1,775
50800105	REINFORCEMENT BARS	POUND	2,850
△ 50900205	STEEL RAILING, TYPE S1	FOOT	122
51200957	FURNISHING METAL SHELL PILES 12"x0.250"	FOOT	340
51202305	DRIVING PILES	FOOT	340
51203200	TEST PILE METAL SHELLS	EACH	2
51500100	NAME PLATES	EACH	1
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	56
542D1060	PIPE CULVERTS, CLASS D, TYPE 2 15"	FOOT	74
① 59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	18.0
△ 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2
△ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
67100100	MOBILIZATION	L SUM	1
△ 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
① X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.0
① X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1

① SEE SPECIAL PROVISIONS  
△ SPECIALTY ITEMS

CONSTRUCTION CODE TYPE: 0011  
BRIDGE CODE TYPE: X080

**AGGREGATE SURFACE COURSE, TYPE A**

STATION TO STATION	THICKNESS	WIDTH	LENGTH	TON
26+75.00 - 27+25.00	1.00'	22.98' AVG.	50.00'	80
27+25.00 - 29+69.50	1.00'	23.00'	244.50'	394
30+30.50 - 33+50.00	1.00'	23.00'	319.50'	514
33+50.00 - 34+00.00	1.00'	23.26' AVG.	50.00'	81
<b>TOTAL</b>				<b>1,069</b>

**AGGREGATE SURFACE COURSE, TYPE B**

STATION TO STATION	THICKNESS	WIDTH	LENGTH	TON
ENTR. - 29+50.00 LT	0.50'	14' & VAR.	65.50'	40
ENTR. - 30+75.00 RT	0.50'	16' & VAR.	39.50'	29
ENTR. - 31+18.00 LT	0.50'	16' & VAR.	43.45'	31
<b>TOTAL</b>				<b>100</b>

**TREE REMOVAL**

STATION	OFFSET	SIDE	6 TO 15 UNITS	OVER 15 UNITS
29+46	48'	RIGHT		20
29+54	44'	RIGHT	13	
29+59	46'	RIGHT	10	
29+79	42'	RIGHT	8	
29+83	37'	RIGHT	6	
29+83	42'	RIGHT		17
29+83	42'	RIGHT		17
29+83	42'	RIGHT	13	
30+15	40'	RIGHT	7	
30+22	52'	RIGHT	8	
30+22	52'	RIGHT	13	
30+47	40'	RIGHT	8	
30+47	41'	RIGHT	14	
30+49	36'	RIGHT		18
30+50	38'	RIGHT	13	
30+51	41'	RIGHT	13	
30+52	45'	RIGHT		22
<b>TOTAL</b>				<b>126</b>
				<b>94</b>

**EARTHWORK SUMMARY**

STATION TO STATION	EARTH EXCAVATION	CHANNEL EXCAVATION	STRUCTURE EXCAVATION	FILL	WASTE (SHORTAGE)	
	CU YD	CU YD	CU YD	CU YD	CU YD	
RDWY 26+75.00 - 29+69.50	104			1,163	(1,085)	
RDWY 30+30.50 - 34+00.00	554			1,508	(1,093)	
CHANNEL		175				
STRUCTURE			10			
<b>TOTAL</b>		<b>658</b>	<b>175</b>	<b>10</b>	<b>2,671</b>	<b>(2,178)</b>
<b>USE</b>		<b>660</b>	<b>175</b>	<b>10</b>	<b>-</b>	<b>(2,180)</b>

(● 25% SHRINKAGE)

**TEMPORARY DITCH CHECKS**

STATION	SIDE	FOOT
29+80	LEFT	12
29+81	RIGHT	12
30+16	LEFT	12
30+18	RIGHT	12
<b>TOTAL</b>		<b>48</b>

**PERIMETER EROSION BARRIER**

STATION TO STATION	SIDE	FOOT
26+75 - 29+70	LEFT	355
26+75 - 29+25	RIGHT	250
30+55 - 30+95	RIGHT	40
31+02 - 31+34	LEFT	35
32+50 - 34+00	LEFT	150
32+50 - 34+00	RIGHT	155
<b>TOTAL</b>		<b>985</b>

**INLET AND PIPE PROTECTION**

STATION	SIDE	EACH
29+36	LEFT	1
30+95	RIGHT	1
31+34	LEFT	1
33+62	RIGHT	1
<b>TOTAL</b>		<b>4</b>

**PIPE CULVERT REMOVAL**

STATION	SIZE	SIDE	FOOT
29+66	12"	LEFT	37
30+44	12"	RIGHT	60
30+46	12"	LEFT	60
33+50	15"	RIGHT	24
<b>TOTAL</b>			<b>181</b>

**PIPE CULVERTS, CLASS D, TYPE 1 15"**

STATION	SIDE	FOOT
31+18	LEFT	32
33+50	RIGHT	24
<b>TOTAL</b>		<b>56</b>

**PIPE CULVERTS, CLASS D, TYPE 2 15"**

STATION	SIDE	FOOT
29+50	LEFT	34
30+75	RIGHT	40
<b>TOTAL</b>		<b>74</b>

**TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT**

SIDE	STATION TO STATION	EACH
RIGHT	29+05.75 - 29+55.75	1
LEFT	30+44.25 - 30+94.25	1
<b>TOTAL</b>		<b>2</b>

**TRAFFIC BARRIER TERMINAL, TYPE 5A**

SIDE	STATION TO STATION	EACH
RIGHT	29+55.75 - 29+69.50	1
LEFT	30+30.50 - 30+44.25	1
<b>TOTAL</b>		<b>2</b>

R 7 W, 3rd PM



- 1

ROAD CLOSED  
1 1/4 MILES AHEAD  
LOCAL TRAFFIC ONLY

ROAD CLOSED  
1 1/4 MILES AHEAD  
LOCAL TRAFFIC ONLY

R11-3
- 2

ROAD CLOSED  
1/2 MILE AHEAD  
LOCAL TRAFFIC ONLY

ROAD CLOSED  
1/2 MILE AHEAD  
LOCAL TRAFFIC ONLY

R11-3
- 3

ROAD  
CLOSED  
AHEAD

ROAD CLOSED  
AHEAD

W20-3
- 4

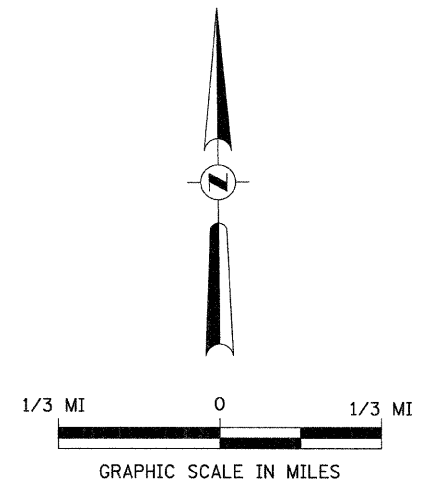
ROAD  
CLOSED  
500 FT

ROAD CLOSED  
500 FT

W20-3
- 5

TYPE III BARRICADES

SEE STANDARD BLR 21  
AND SPECIAL PROVISIONS

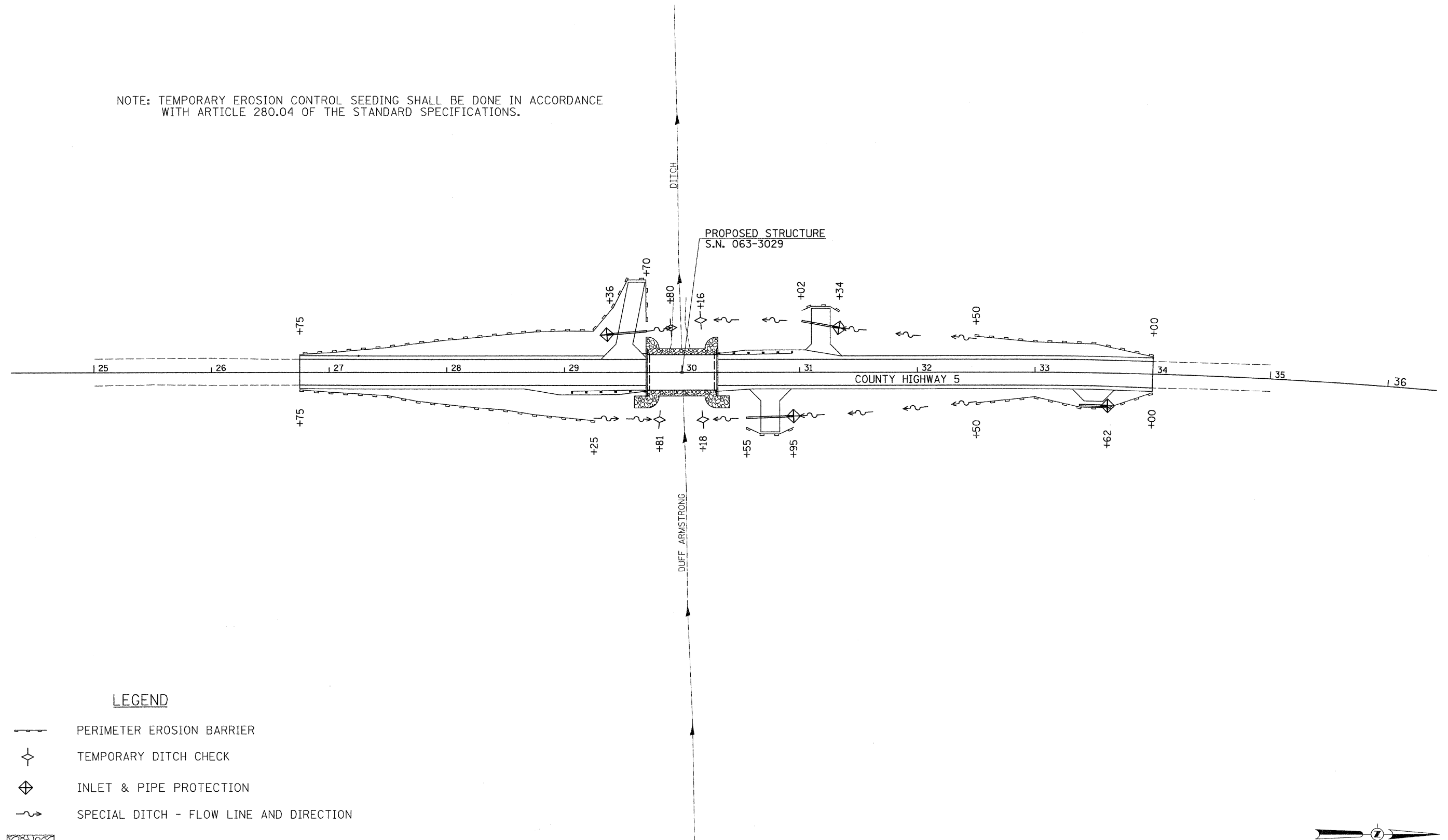


R 7 W, 3rd PM

FILE NAME = V:\Bridg\2964 - Mason\2964\001.dgn	USER NAME = othomas	DESIGNED -	REVISED -	<b>MASON COUNTY COUNTY HIGHWAY 5 OVER DUFF ARMSTRONG DITCH</b>	<b>TRAFFIC CONTROL PLAN</b>	F.A.S. RTE. 572	SECTION 10-00016-02-BR	COUNTY MASON	TOTAL SHEETS 22	SHEET NO. 4
	PLOT SCALE = 1.0000' / IN.	CHECKED -	REVISED -	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	CONTRACT NO. 93568		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BR5-0572(305)		
	PLOT DATE = 10/21/2011	DATE -	REVISED -	STA. 26+75.00 TO STA. 34+00.00						






T 20 N, R 7 W, 3rd PM  
SECTION 2

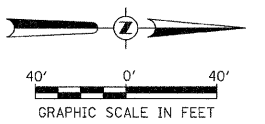
NOTE: TEMPORARY EROSION CONTROL SEEDING SHALL BE DONE IN ACCORDANCE WITH ARTICLE 280.04 OF THE STANDARD SPECIFICATIONS.



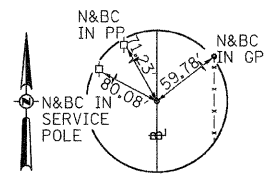
T 20 N, R 7 W, 3rd PM  
SECTION 2

**LEGEND**

-  PERIMETER EROSION BARRIER
-  TEMPORARY DITCH CHECK
-  INLET & PIPE PROTECTION
-  SPECIAL DITCH - FLOW LINE AND DIRECTION
-  PROPOSED RIPRAP PLACEMENT



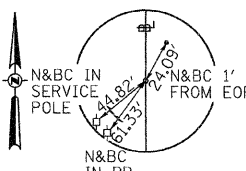
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		DRAWN -	REVISED -		SCALE: 1" = 40'	SHEET NO. 1 OF 1 SHEETS	STA. 26+75.00 TO STA. 34+00.00	572	10-00016-02-BR	MASON	22	5	
		CHECKED -	REVISED -						CONTRACT NO. <b>9 5 6 8</b>				
		DATE -	REVISED -						FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-0572(305)				



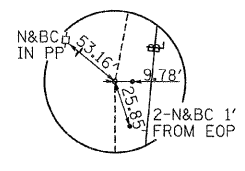
POT STA 23+80.00  
MAG-NAIL

DAVID MONTGOMERY

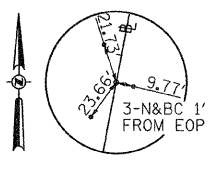
T 20 N, R 7 W, 3rd PM  
SECTION 2



PC STA 32+80.22  
MAG-NAIL



PI STA 36+93.44  
5/8" 1-ROD



PT STA 41+04.07  
MAG-NAIL

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
PLAN	
NO.	

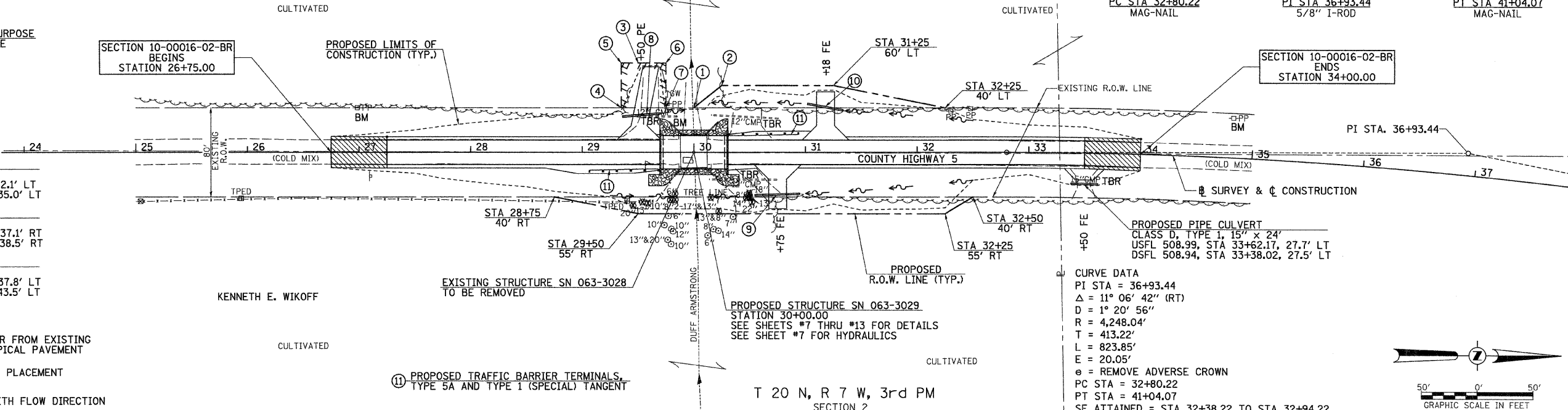
- ③ TEMPORARY EASEMENT FOR PURPOSE OF RECONSTRUCTING ENTRANCE
- ④ STA 29+35  
40' LT
- ⑤ STA 29+35  
80' LT
- ⑥ STA 29+75  
80' LT
- ⑦ STA 29+75  
40' LT
- ⑧ PROPOSED PIPE CULVERT  
CLASS D, TYPE 2, 15" x 34"  
USFL 510.56, STA 29+36.11, 32.1' LT  
DSFL 510.39, STA 29+69.99, 35.0' LT
- ⑨ PROPOSED PIPE CULVERT  
CLASS D, TYPE 2, 15" x 40"  
USFL 509.49, STA 30+94.80, 37.1' RT  
DSFL 509.29, STA 30+54.82, 38.5' RT
- ⑩ PROPOSED PIPE CULVERT  
CLASS D, TYPE 1, 15" x 32"  
USFL 508.76, STA 31+33.49, 37.8' LT  
DSFL 508.60, STA 31+01.99, 43.5' LT

- LEGEND**
- TRANSITION TO OR FROM EXISTING TO PROPOSED TYPICAL PAVEMENT
  - PROPOSED RIPRAP PLACEMENT
  - SPECIAL DITCH WITH FLOW DIRECTION

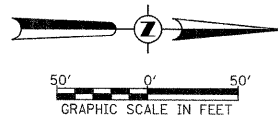
SECTION 10-00016-02-BR  
BEGINS  
STATION 26+75.00

PROPOSED LIMITS OF  
CONSTRUCTION (TYP.)

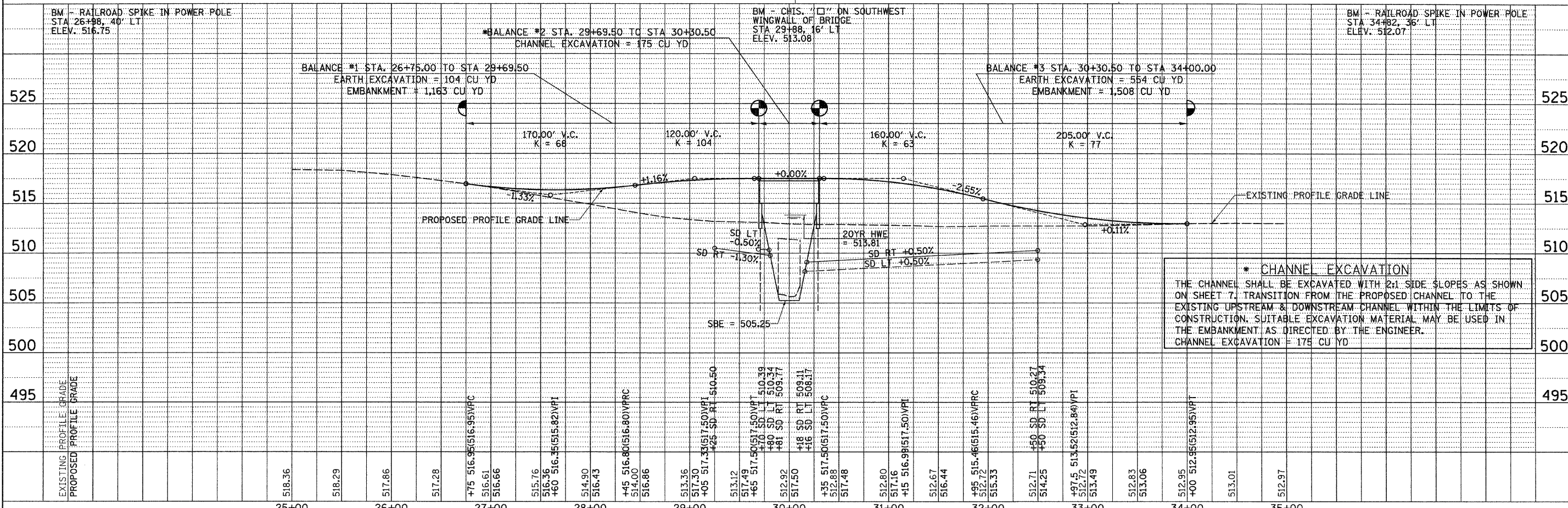
SECTION 10-00016-02-BR  
ENDS  
STATION 34+00.00



**CURVE DATA**  
PI STA = 36+93.44  
Δ = 11° 06' 42" (RT)  
D = 1° 20' 56"  
R = 4,248.04'  
T = 413.22'  
L = 823.85'  
E = 20.05'  
e = REMOVE ADVERSE CROWN  
PC STA = 32+80.22  
PT STA = 41+04.07  
SE ATTAINED = STA 32+38.22 TO STA 32+94.22



DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
PROFILE	
NO.	



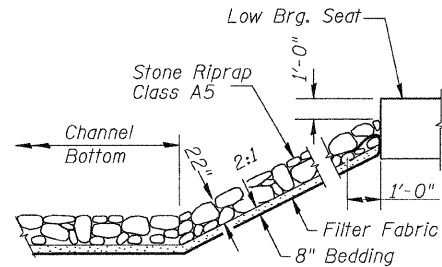
FILE NAME = V:\Bridges\2964 - Mason\2964p001.dgn	USER NAME = jwhite	DESIGNED -	REVISED -	<b>MASON COUNTY COUNTY HIGHWAY 5 OVER DUFF ARMSTRONG DITCH</b>	<b>PLAN AND PROFILE</b>		F.A.S. RTE. 572	SECTION 10-00016-02-BR	COUNTY MASON	TOTAL SHEETS 22	SHEET NO. 6	
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED -		SCALE: 1"=50'	SHEET NO. 1 OF 1 SHEETS	STA. 26+75.00 TO STA. 34+00.00	FED. ROAD DIST. NO. 7 (ILLINOIS)		FED. AID PROJECT BRS-0572(305)		
	PLOT DATE = 10/24/2011	DATE -	REVISED -									
CONTRACT NO. 93568												

B.M.: RR Spike in Power Pole  
Sta. 26+98, 40' Lt.  
Elev. 516.75

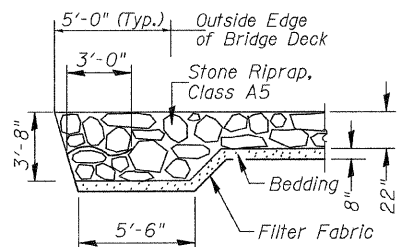
RR Spike in Power Pole  
Sta. 34+82, 36' Lt.  
Elev. 512.07

Existing Structure:  
Single span concrete deck on steel girders superstructure on concrete closed abutments. The structure is 24'-0" back to back of abutments, 31'-0" out to out of deck and is not skewed. Str. No. 063-3028

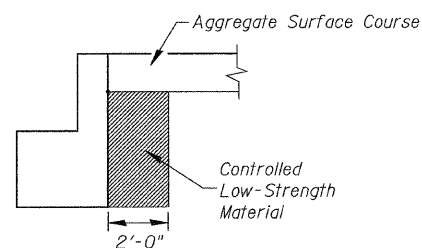
Salvage: None  
Road to be closed to traffic during construction.



STONE RIPRAP DETAIL



SECTION A-A



SECTION B-B

DESIGN SCOUR TABLE

Location	N. Abut.	S. Abut.
Design Scour Elevation	512.47	512.47

WATERWAY INFORMATION

Drainage Area = 4.70 Sq. Mi. Low Grade Elev. = 512.95 @ Sta. 33+91.73

Flood Yr.	Freq.	Q C.F.S.	Opening Exist.	Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	20	1,181	122	318	513.81	1.08	0.01	514.89	513.82
Base	100	1,790	122	360	514.59	1.55	0.02	516.14	514.61

OVER-THE-ROAD AREA

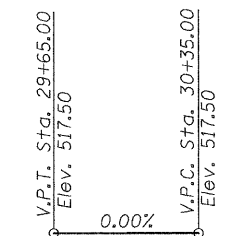
Freq. Yr.	Existing	Proposed
20	572	156
100	1,088	348

DESIGNED	S.T.M.
CHECKED	J.E.H.
DRAWN	S.T.M.
CHECKED	J.E.H.

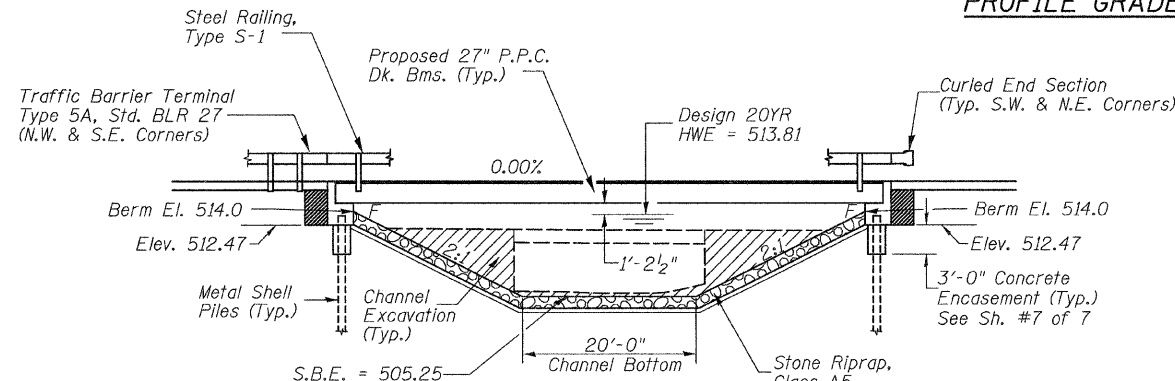
**DUFF ARMSTRONG DITCH  
BUILT 20L BY  
MASON COUNTY  
SEC. 10-00016-02-BR  
C.H. 5 STATION 30+00.00  
F.A. PROJ. BRS-0572(305)  
STR. NO. 063-3029 LOADING HL-93**

**NAME PLATE**

Locate Name Plate at S.E. Wingwall  
Corner of Bridge (See Std. 515001)

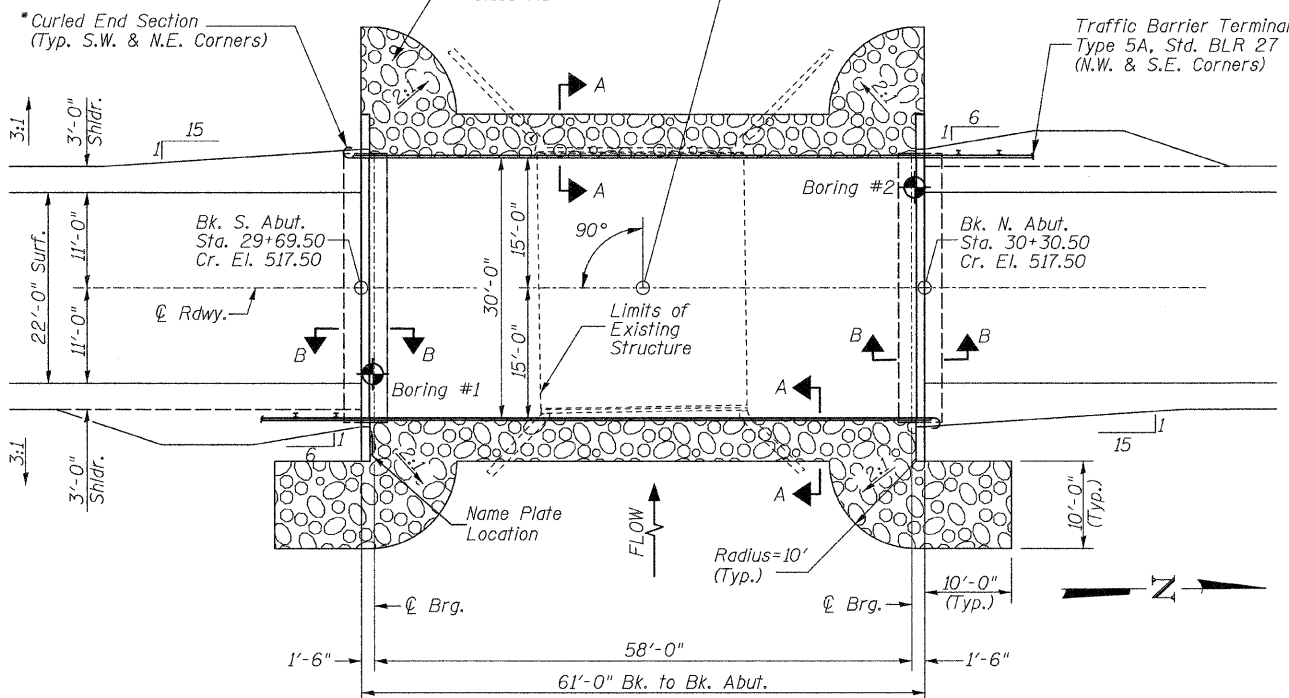


PROFILE GRADE



ELEVATION

\*Terminal Marker-Direct Applied to be placed on Curled End Sections in accordance with Std. 635006



PLAN

**DESIGN SPECIFICATIONS**

2007 AASHTO (LRFD) & Interims

**DESIGN STRESSES**

(FIELD UNITS)  $f'_c = 3,500$  p.s.i.  $f_y = 60,000$  p.s.i. (Rein.)

(PRECAST PRESTRESSED UNITS)  $f'_c = 6,000$  p.s.i.  $f'_{ci} = 5,000$  p.s.i.  $f'_s = 270,000$  p.s.i. ( $\frac{1}{2}$ " Strands)  $f'_{si} = 201,960$  p.s.i. ( $\frac{1}{2}$ " Strands)

**LOADING HL-93**

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

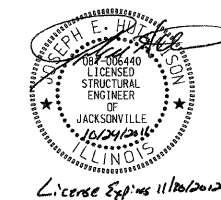
**GENERAL NOTES**

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at the substructures specified or approved by the Engineer before ordering the remainder of the piles.  
For Soil Boring Logs, See Special Provisions.  
A Corrosion Inhibitor shall be used in the concrete for Precast Prestressed Concrete Deck Beams according to Article 1020.05(b)(12) of the Standard Specifications.  
Reinforcement Bars shall conform to the requirements of ASTM A706 Grade 60. Reinforcement Bars designated (E) shall be epoxy coated.  
Layout of the slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.  
Excavation behind existing closed abutment walls shall be done before removing existing superstructure.  
The existing structural steel coating may contain lead. The contractor should take appropriate precautions to deal with the presence of lead on this project.  
The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.

**TOTAL BILL OF MATERIAL**

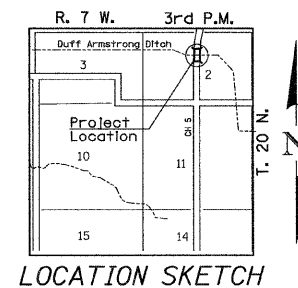
ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	CU YD	---	175	175
Stone Riprap, Class A5	TON	---	400	400
Filter Fabric	SQ YD	---	330	330
① Removal of Existing Structures	EACH	---	---	1
Structure Excavation	CU YD	---	10	10
Concrete Structures	CU YD	---	25.4	25.4
① Precast Prestressed Concrete Deck Beams (27" Depth)	SQ FT	1,775	---	1,775
Reinforcement Bars	POUND	---	2,850	2,850
Steel Railing, Type S1	FOOT	122	---	122
Furnishing Metal Shell Piles 12"x0.250"	FOOT	---	340	340
Driving Piles	FOOT	---	340	340
Test Pile Metal Shells	EACH	---	2	2
Concrete Encasement	CU YD	---	2.6	2.6
Name Plates	EACH	---	1	1
① Controlled Low-Strength Material	CU YD	---	18.0	18.0

① See Special Provisions



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 Standard Specification for Highway Bridges.  
This design complies with all requirements of the current AASHTO Guide Specifications for Seismic Design of highway bridges.

*[Signature]* 10/24/2011  
Illinois Structural No. 6440  
Expires 11/30/2012



LOCATION SKETCH

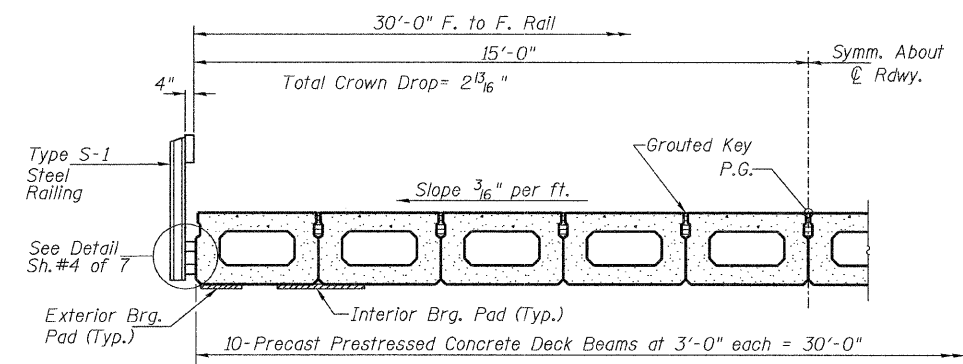
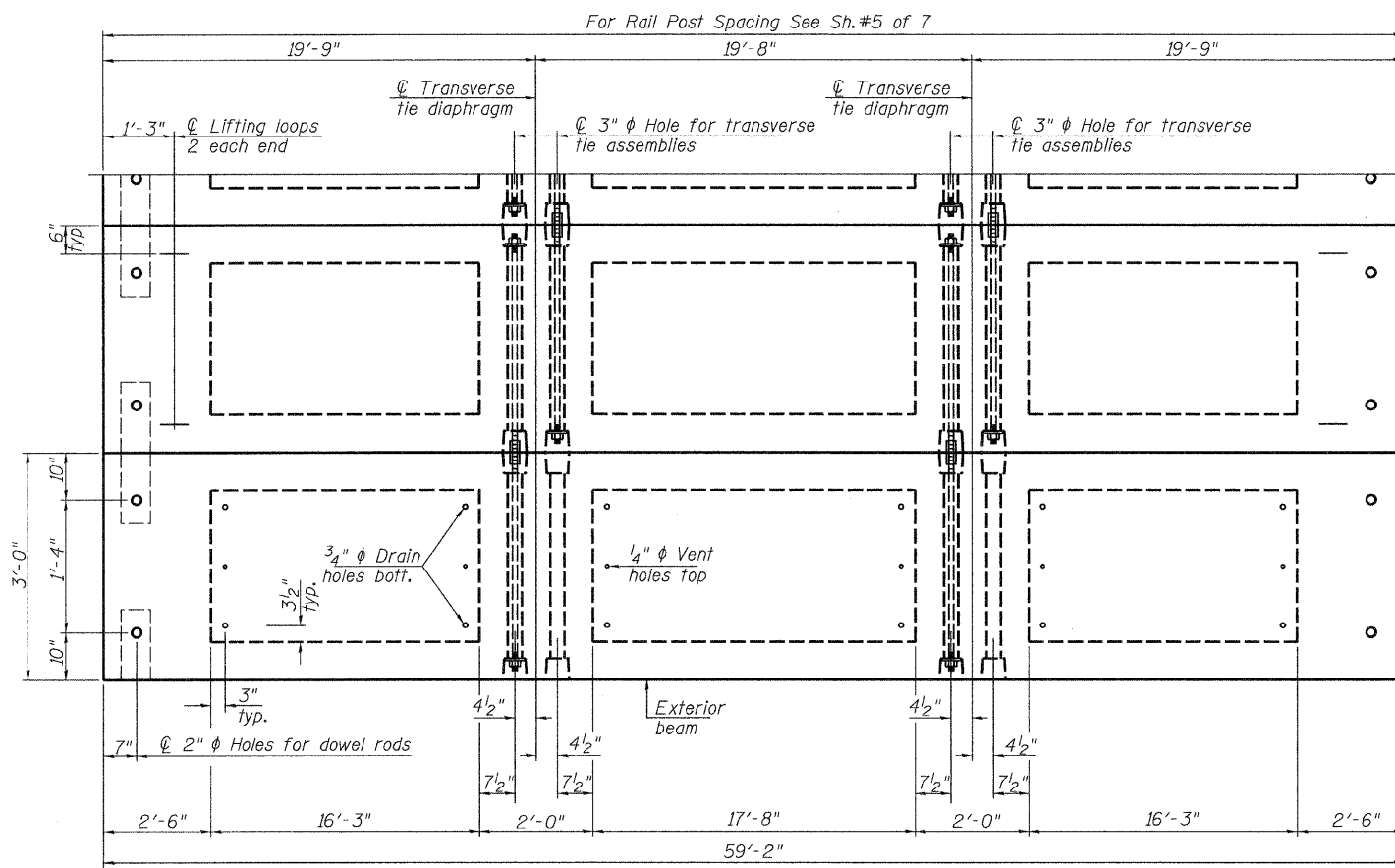
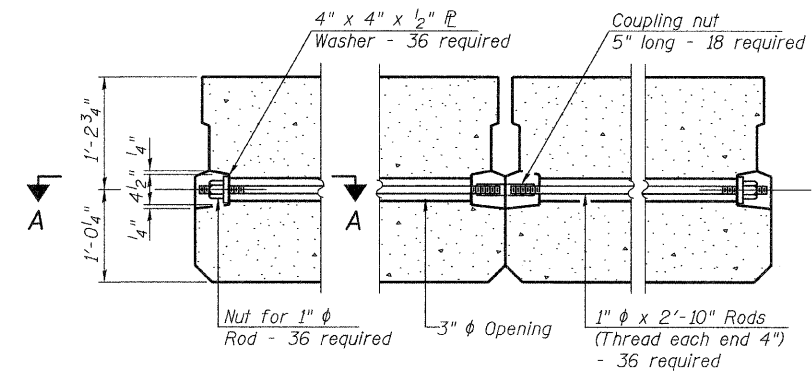
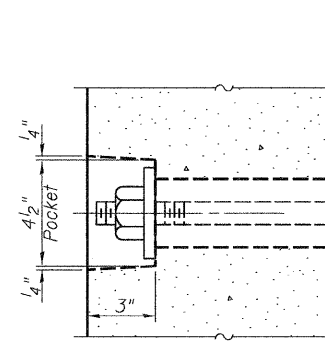
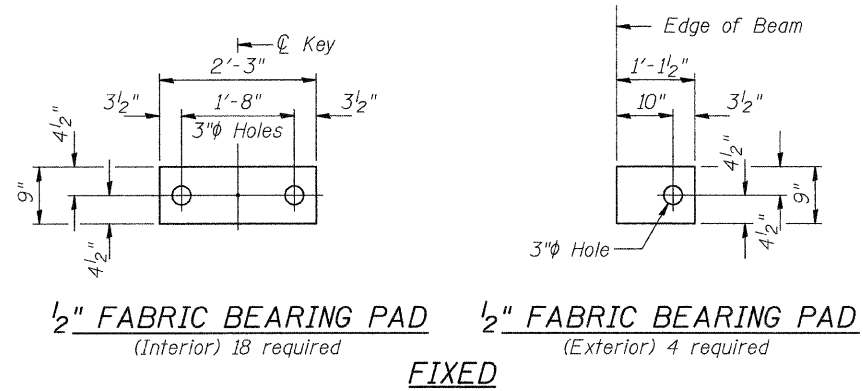
**GENERAL PLAN & ELEVATION**

MASON COUNTY

SECTION 10-00016-02-BR

C.H. 5 OVER DUFF ARMSTRONG DITCH

SHEET NO. 1	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7 SHEETS	CH 5	10-00016-02-BR	MASON	22	7
		S.N. 063-3029	CONTRACT NO. 93568		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT BRS-0572(305)		



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"  $\phi$  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.

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"  $\phi$  lifting pin shall be used to engage the lifting loops during handling.

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

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

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

**BILL OF MATERIAL**

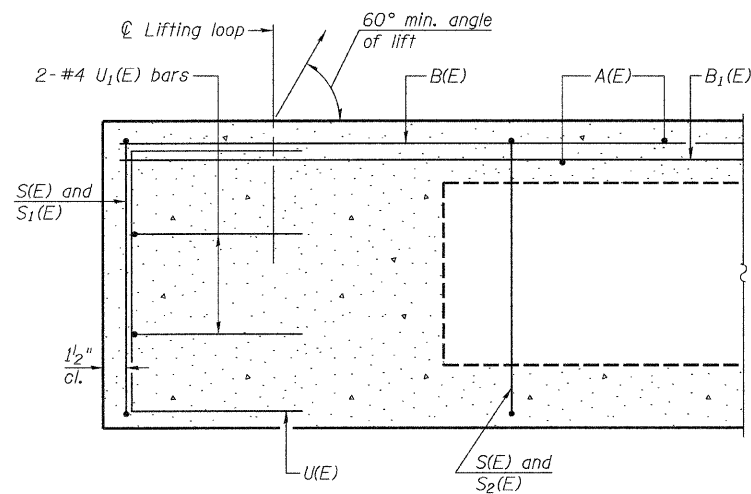
ITEM	UNIT	QUANTITY
① Precast Prestressed Concrete Deck Beams (27" Depth)	SQ FT	1,775
① See Special Provisions		

**SUPERSTRUCTURE  
MASON COUNTY**

**SECTION 10-00016-02-BR  
C.H. 5 OVER DUFF ARMSTRONG DITCH**

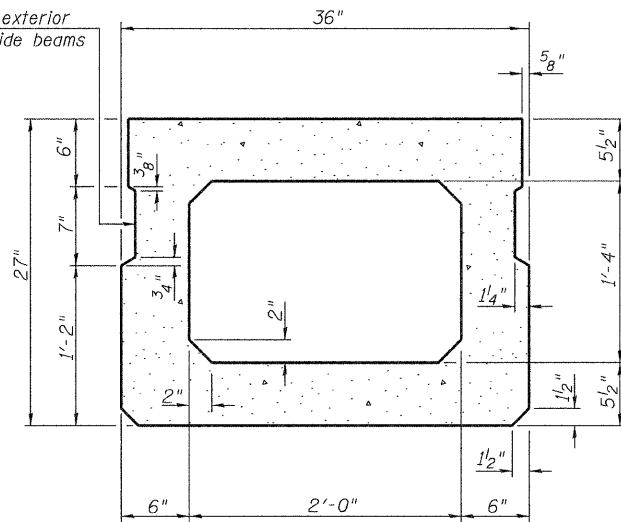
SHEET NO. 2 7 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 5	10-00016-02-BR	MASON	22	8
S.N. 063-3029			CONTRACT NO. 93568		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0572(305)		





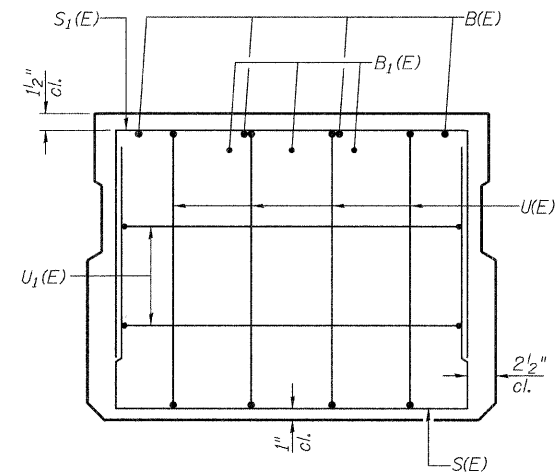
**SECTION C-C**

\*\*Omit key on exterior face of outside beams

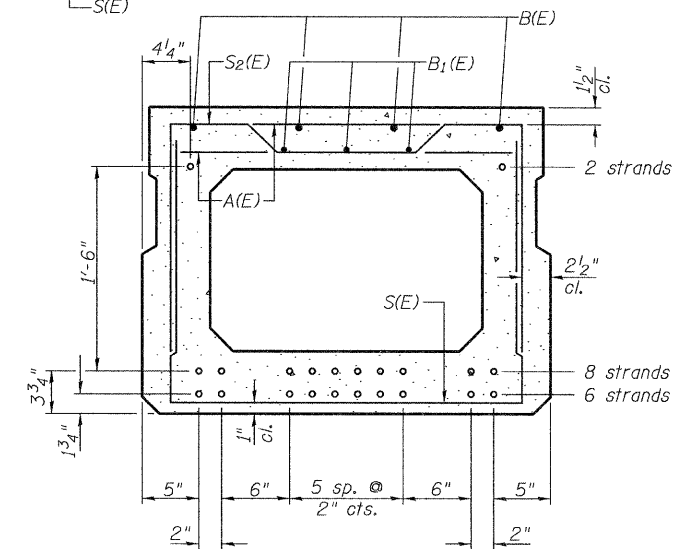


**SECTION A-A (Showing Dimensions)**

\*\*Rail post anchor devices (Sheet 4 of 7) to be cast into exterior face of outside beams.

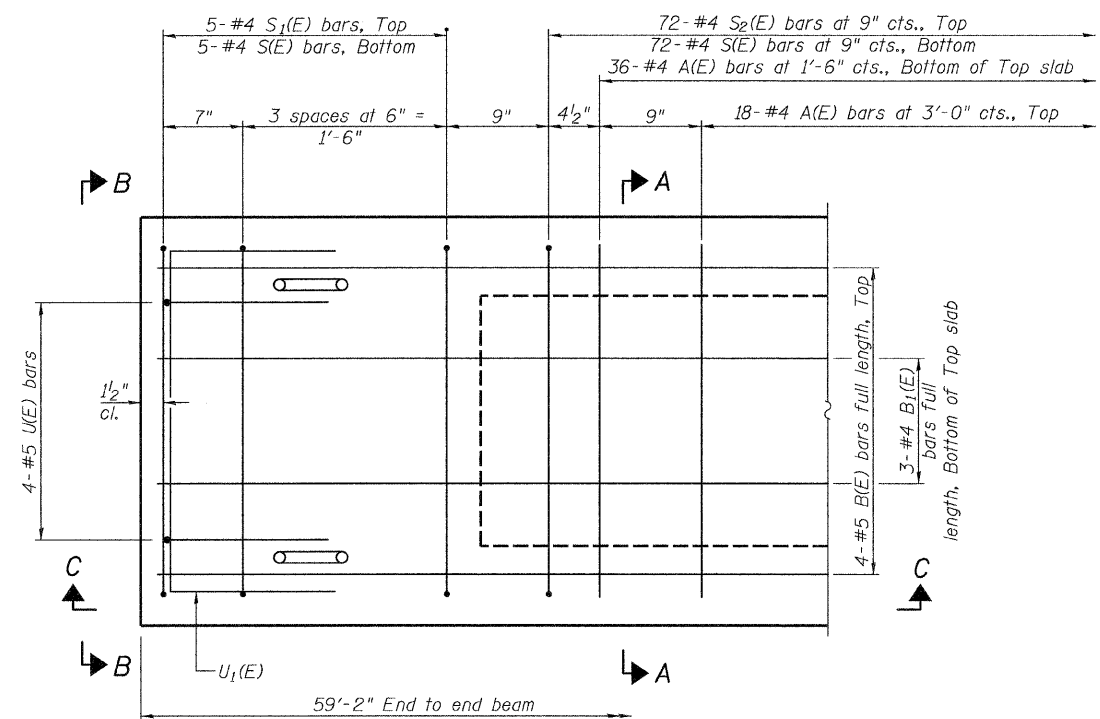


**VIEW B-B**



**SECTION A-A**

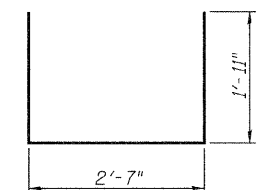
16-1/2" Strands Each Strand Stressed to 30,900 Lbs.  
6-Strands 1 3/4" up, 8-Strands 3 3/4" up, 2-Strands 1'-9 3/4" up  
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.



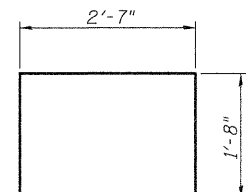
**PLAN VIEW**

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.

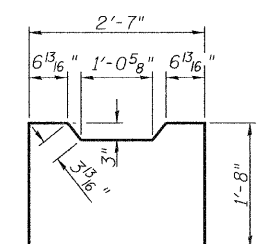
**MINIMUM BAR LAP**  
#4 bar = 2'-0"  
#5 bar = 2'-6"



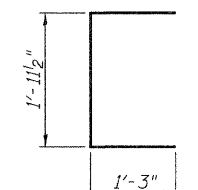
**BAR S(E)**



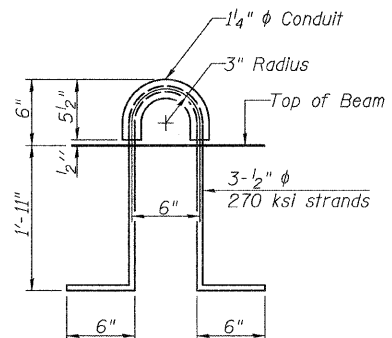
**BAR S1(E)**



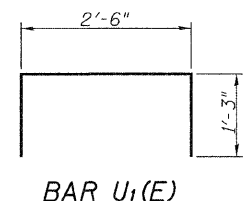
**BAR S2(E)**



**BAR U(E)**



**LIFTING LOOP DETAIL**



**BAR U1(E)**

**BAR LIST-ONE BEAM ONLY**

(For information only)

Bar	No.	Size	Length	Shape
A(E)	54	#4	2'-7"	—
B(E)	4	#5	*58'-11"	—
B1(E)	3	#4	*58'-11"	—
S(E)	82	#4	6'-5"	U
S1(E)	10	#4	5'-11"	U
S2(E)	72	#4	6'-2"	U
U(E)	8	#5	4'-6"	U
U1(E)	4	#4	5'-0"	U

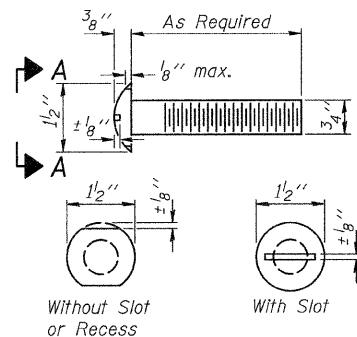
\* Total Length, Lap as necessary

Note: See sheet 2 of 7 for additional details and Bill of Material.

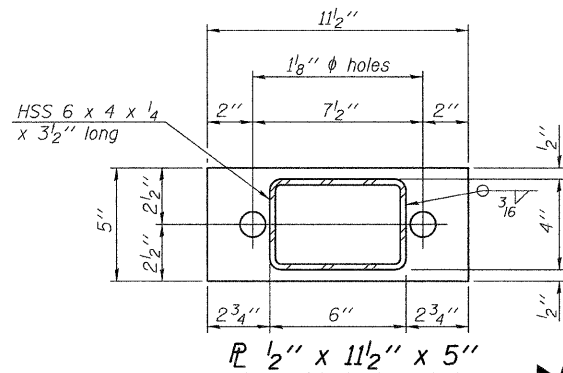
**SUPERSTRUCTURE DETAILS  
MASON COUNTY  
SECTION 10-00016-02-BR  
C.H. 5 OVER DUFF ARMSTRONG DITCH**

SHEET NO. 3 7 SHEETS	ROUTE NO. CH 5	SECTION 10-00016-02-BR	COUNTY MASON	TOTAL SHEETS 22	SHEET NO. 9
	S.N. 063-3029		CONTRACT NO. 93568		
	FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0572(305)		

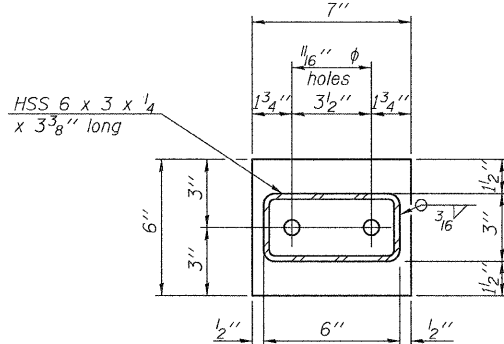
FOR RAIL POST SPACING SEE SH.#5 OF 7



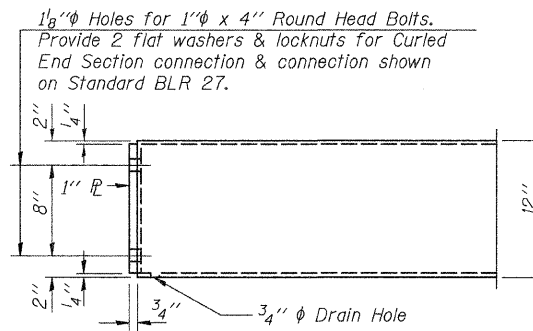
VIEW A-A  
ROUND HEAD BOLT



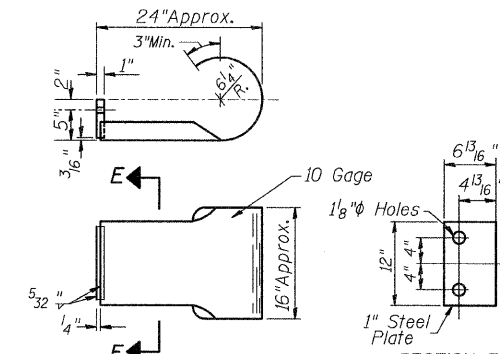
SECTION B-B  
P 1/2" x 11 1/2" x 5"



SECTION C-C  
P 1/2" x 7" x 6"



END OF RAIL DETAILS



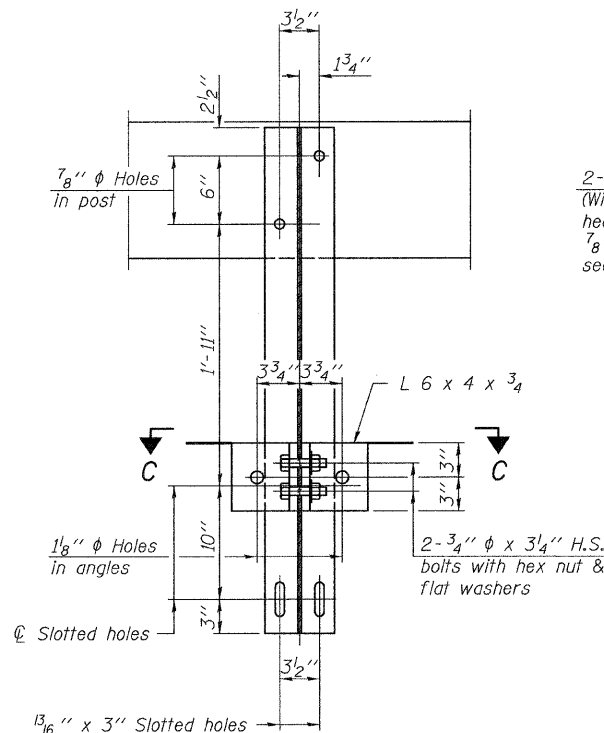
SECTION E-E  
CURLLED END SECTION

(2 Req'd) Cost Included with Steel Railing, Type S-1.  
Terminal Markers - Direct Applied shall be placed on  
end of each Curled End Section. (S.W. & N.E. Corners)

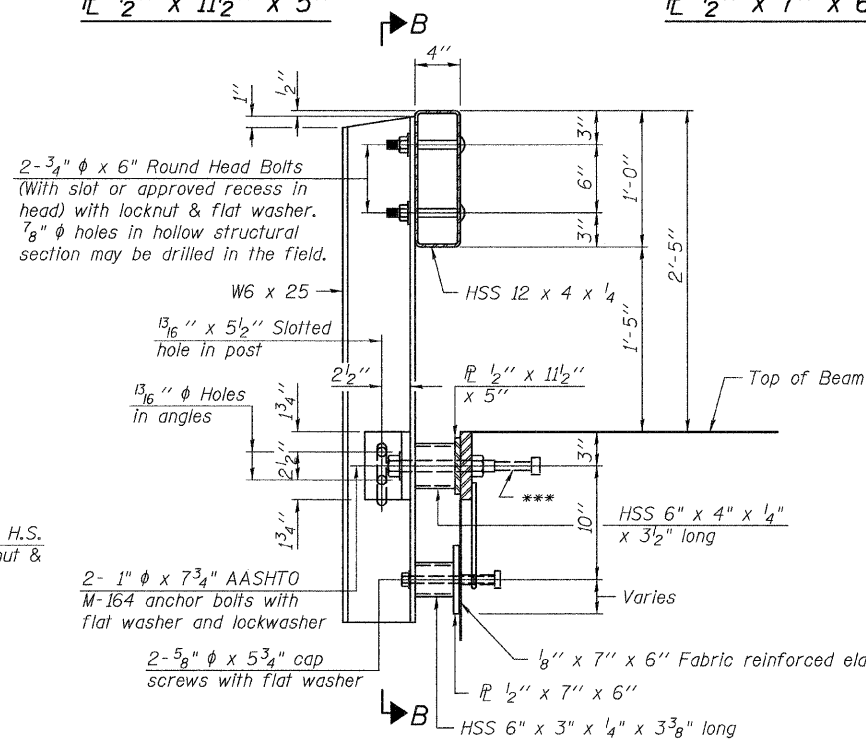
NOTES

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.

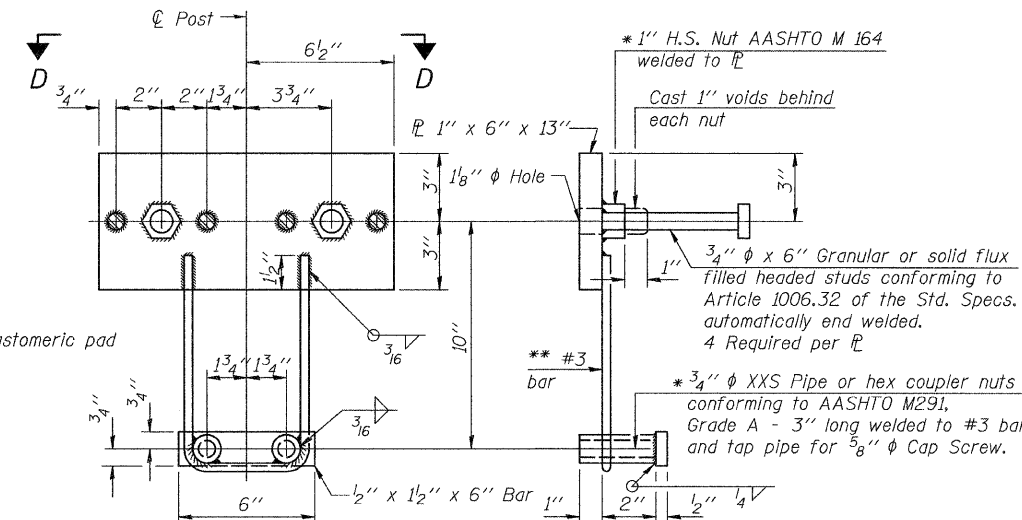
\*\*\* The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



SECTION B-B

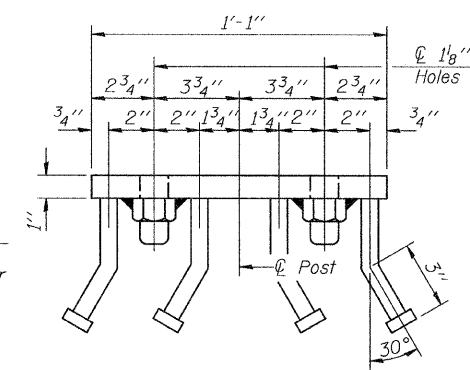


SECTION AT RAILING POST

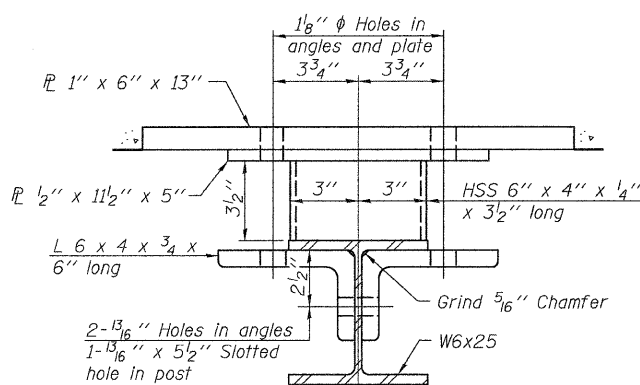


ANCHOR DEVICE

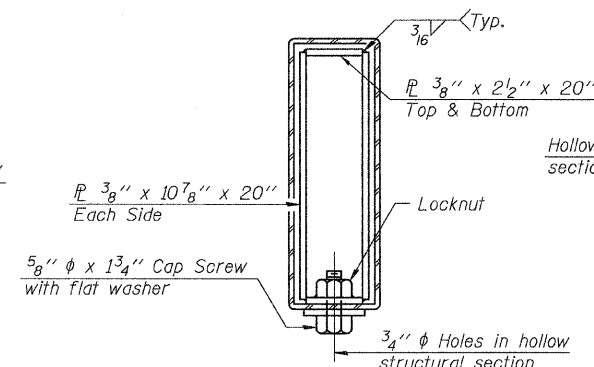
\* Threaded areas shall be plugged or blocked off during casting of beam.



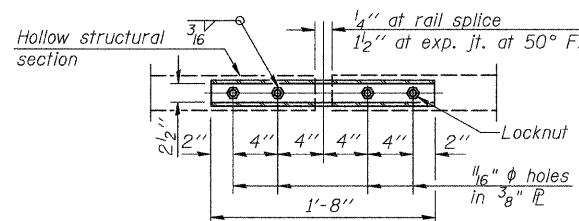
VIEW D-D



SECTION C-C



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE P  
TYPICAL

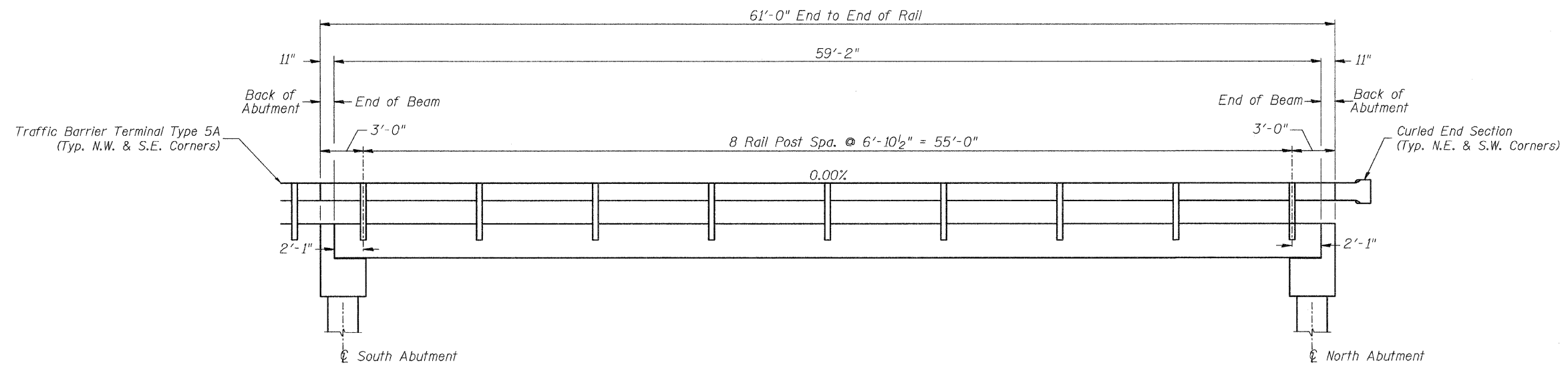
\*\* Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	FOOT	122

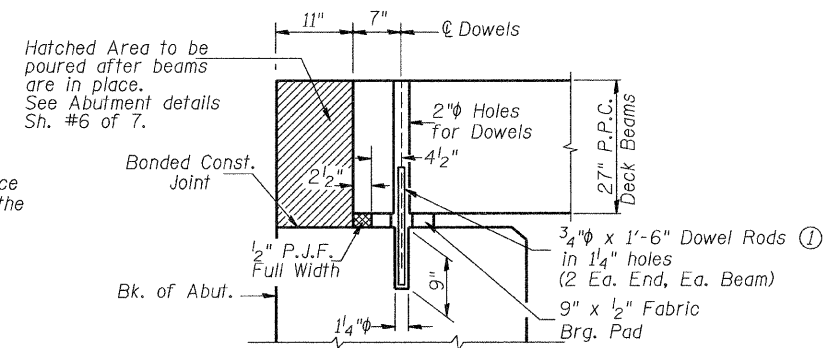
STEEL RAILING, TYPE S-1  
MASON COUNTY  
SECTION 10-00016-02-BR  
C.H. 5 OVER DUFF ARMSTRONG DITCH

SHEET NO. 4 7 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 5	10-00016-02-BR	MASON	22	10
S.N. 063-3029			CONTRACT NO. 93568		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0572(305)		



**RAIL POST SPACING**

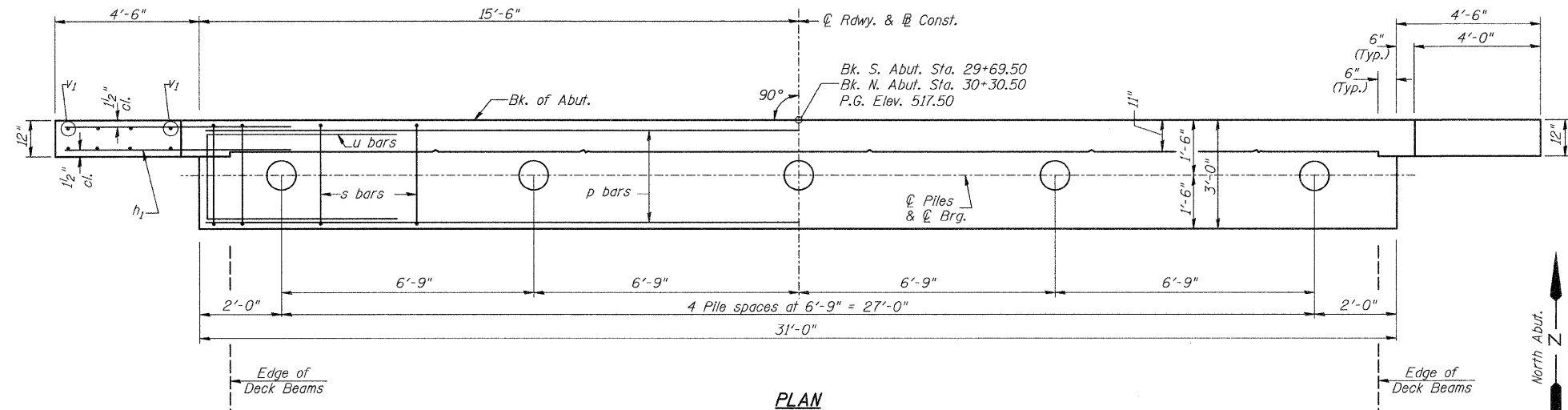
① Dowel Rods to be grouted after beams are in place and allowed to cure (Min. 24 hr.) prior to grouting the shear keys.



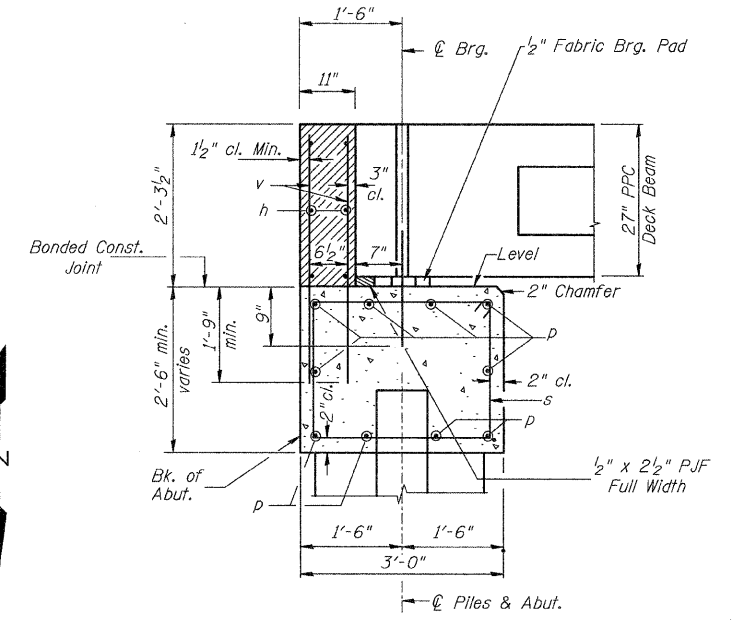
**SECTION THRU ABUTMENT**

**RAIL POST SPACING AND  
SUPERSTRUCTURE DETAILS  
MASON COUNTY  
SECTION 10-00016-02-BR  
C.H. 5 OVER DUFF ARMSTRONG DITCH**

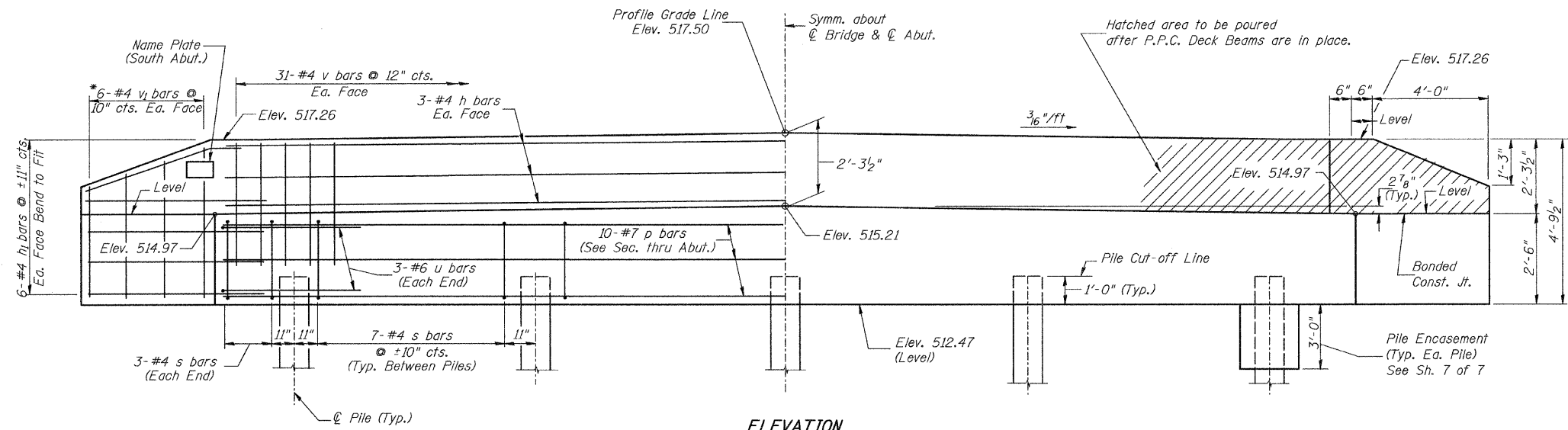
SHEET NO. 5  7 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 5	10-00016-02-BR	MASON	22	11
	S.N. 063-3029		CONTRACT NO. 93568		
	FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0572(305)		



PLAN



SECTION THRU ABUT.



ELEVATION  
(Front View of Abutment)

TWO ABUTMENTS  
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h	12	#4	30'-9"	—
h <sub>1</sub>	48	#4	6'-6"	—
p	20	#7	30'-9"	—
s	68	#4	10'-5"	□
u	12	#6	11'-7"	□
v	124	#4	4'-0"	—
v <sub>1</sub>	24	#4	7'-9"	—
Concrete Structures			CU YD	25.4
Reinforcement Bars			POUND	2,850
Structure Excavation			CU YD	10
Name Plates			EACH	1
Furnishing Metal Shell			FOOT	340
Piles 12"x0.250"			FOOT	340
Driving Piles			FOOT	340
Test Pile Metal Shells			EACH	2
Concrete Encasement			CU YD	2.6

Ⓞ See Special Provisions

DESIGN STRESSES

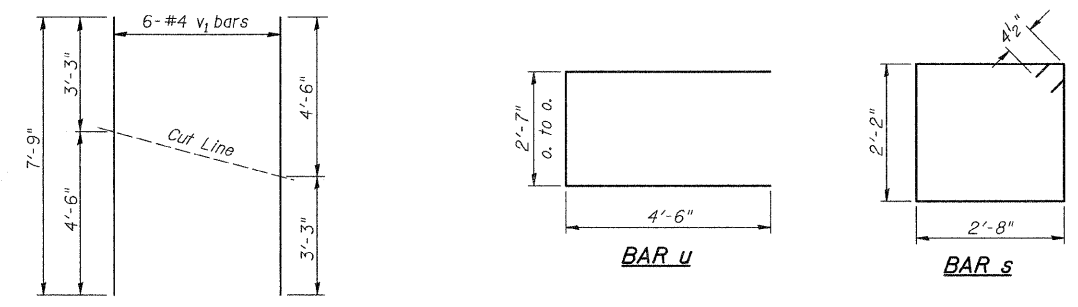
f'<sub>c</sub> = 3,500 p.s.i.  
f<sub>y</sub> = 60,000 p.s.i.

NOTES

- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
- Reinforcement bars shall conform to ASTM A706 Grade 60.

PILE DATA

Type & Size: Metal Shell 12"x0.250" walls  
Nominal Required Bearing: 245 kips  
Factored Resistance Available: 135 kips  
Est. Length: 39' North Abutment  
46' South Abutment  
No. Req'd.: 10 (Includes 1 Test Pile at Each Abut.)

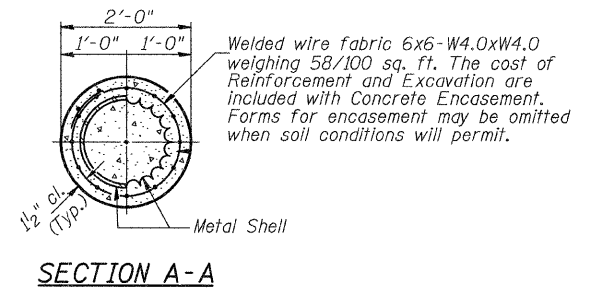
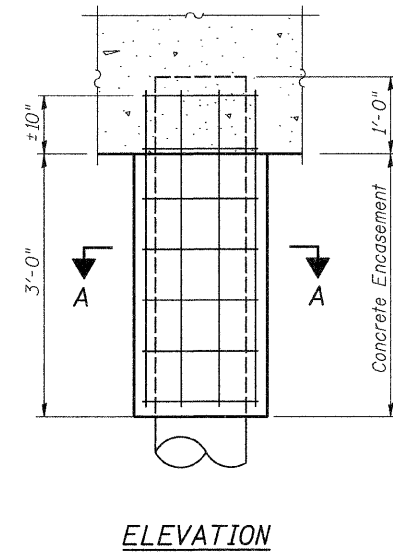
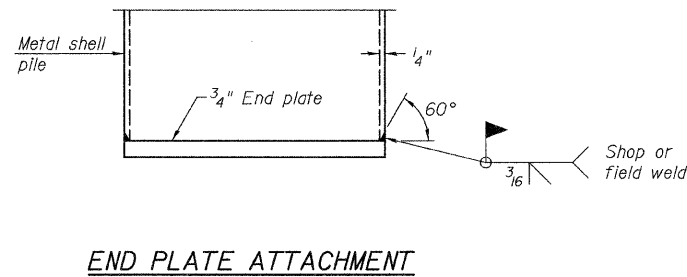
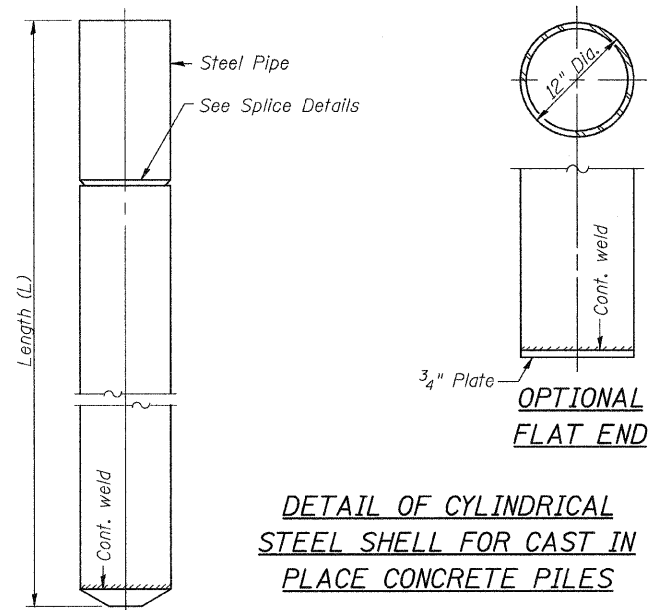


BAR CUTTING DIAGRAM  
\*Order v<sub>1</sub> bars full length. Cut as shown and use remainder of bars in opposite face.

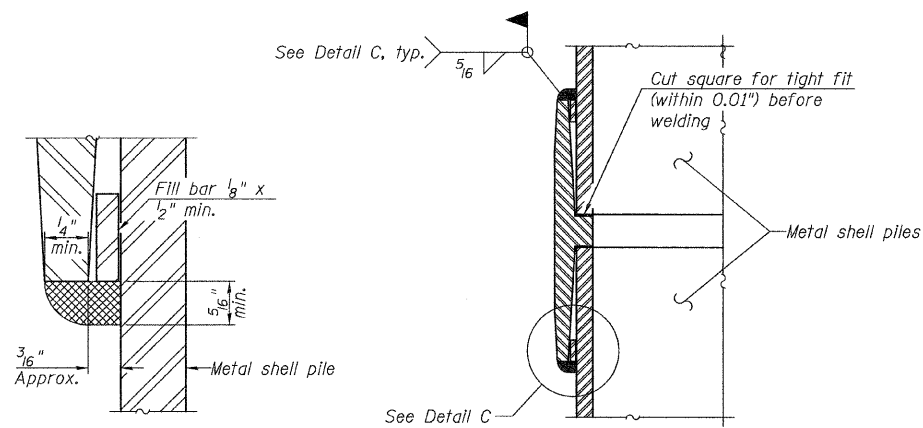
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	CH 5	10-00016-02-BR	MASON	22	12
	S.N. 063-3029		CONTRACT NO. 93568		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0572(305)			

ABUTMENTS  
MASON COUNTY  
SECTION 10-00016-02-BR  
C.H. 5 OVER DUFF ARMSTRONG DITCH

Notes: Driving and bearing ends of pipe shall be cut square. The thickness of the shell shall be 0.25 inches with a tolerance of 5%. The shell shall be according to Article 1006.05(a) of the Standard Specifications, and shall be ASTM A252 Grade 3.

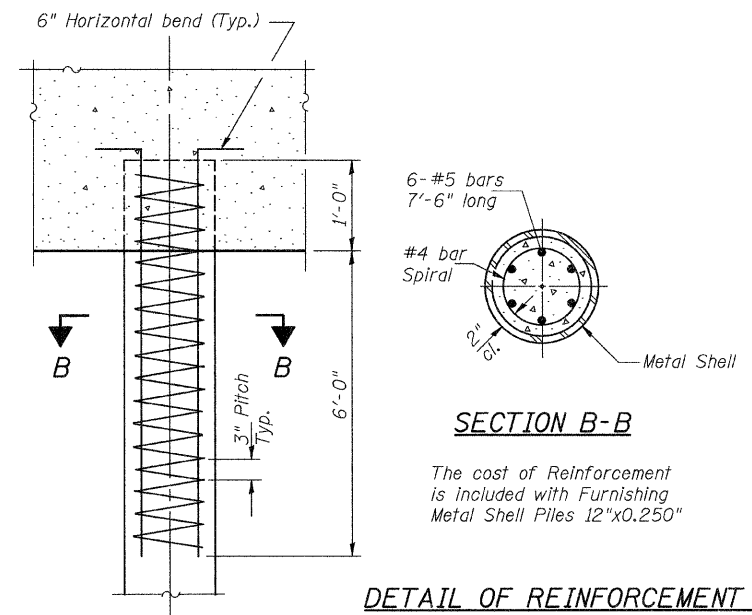
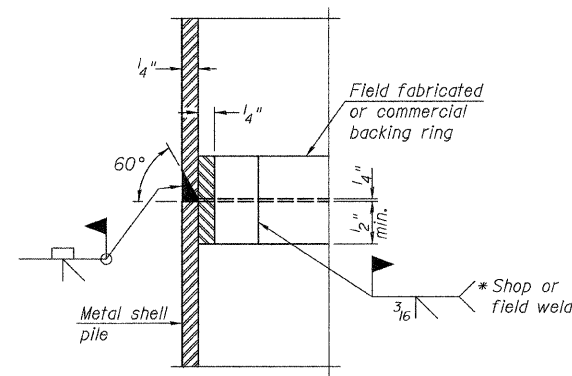


**DETAIL OF METAL SHELL PILE ENCASEMENT AT ABUTMENTS**



**WELDED COMMERCIAL SPLICE**

Notes:  
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.  
Pile segments shall be driven to solid contact with splicer before welding.

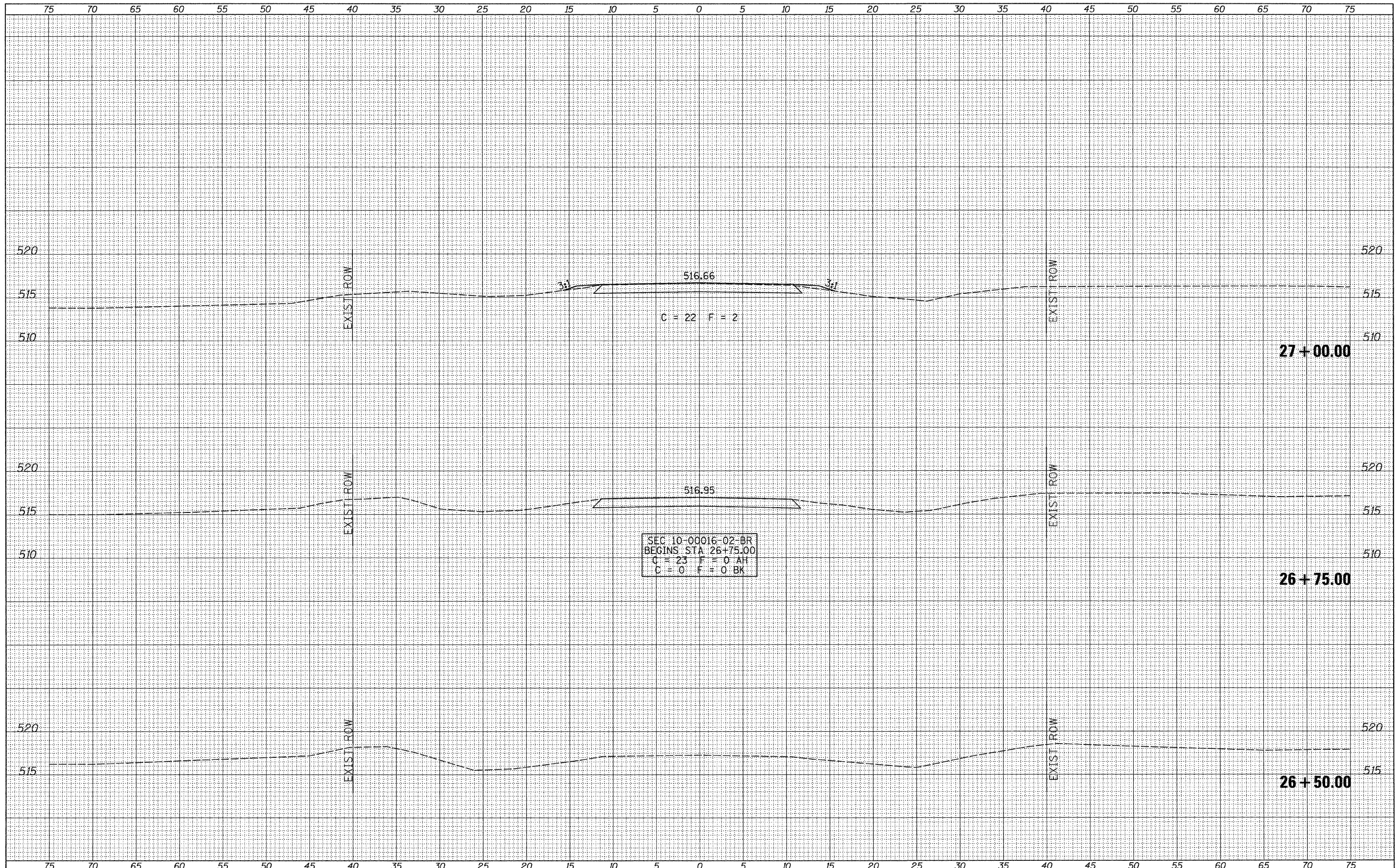


**METAL SHELL PILE DETAILS  
MASON COUNTY  
SECTION 10-00016-02-BR  
C.H. 5 OVER DUFF ARMSTRONG DITCH**

SHEET NO. 7 7 SHEETS	ROUTE NO. CH 5	SECTION 10-00016-02-BR	COUNTY MASON	TOTAL SHEETS 22	SHEET NO. 13
	S.N. 063-3029		CONTRACT NO. 93568		
	FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0572(305)		

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

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

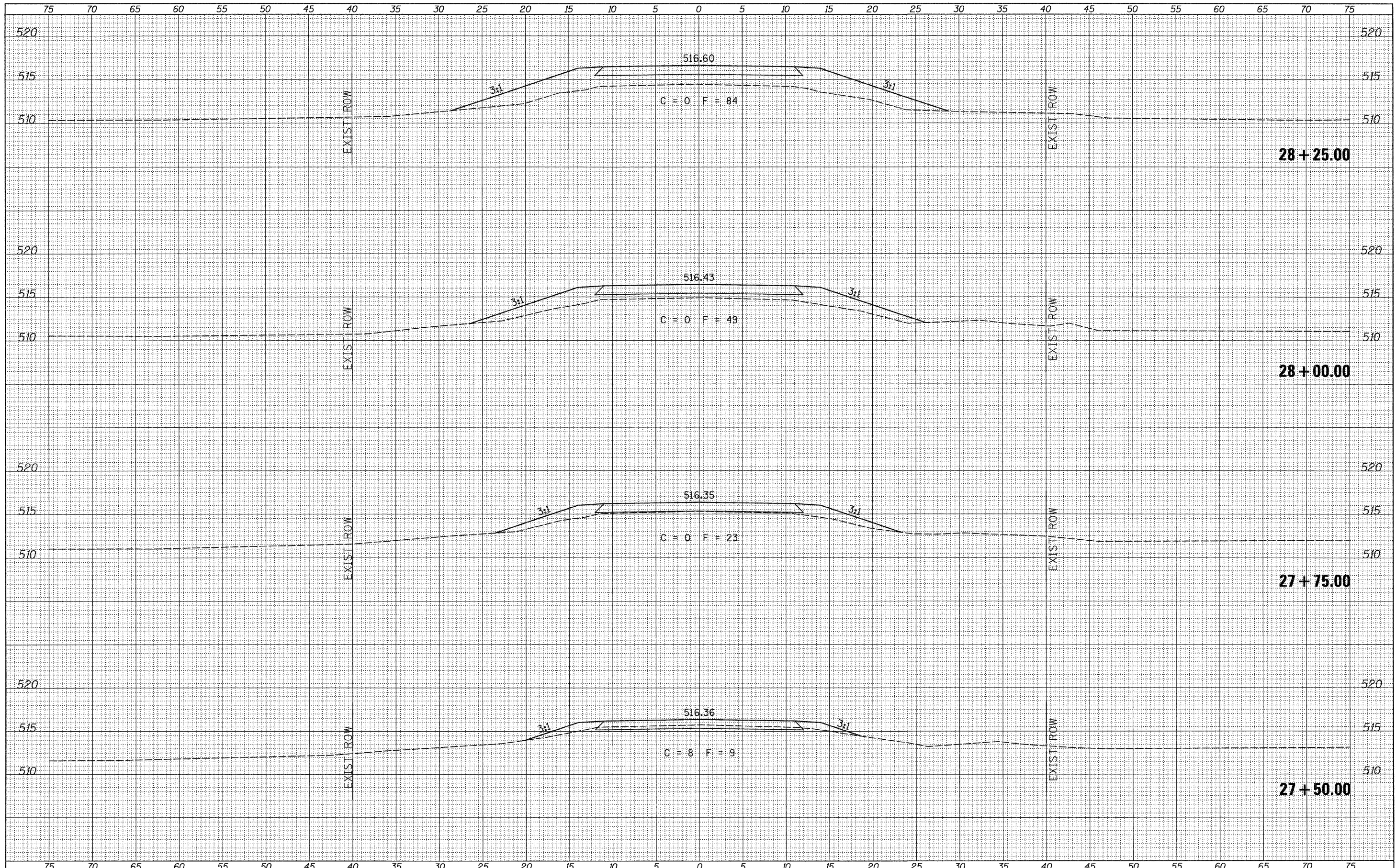


SEC 10-00016-02-BR  
 BEGINS STA 26+75.00  
 C = 23 F = 0 AH  
 C = 0 F = 0 BK

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PLOT SCALE = 5.0000' / IN.	CHECKED -	REVISED -	REVISED -		SCALE: 1"=5'	SHEET NO. 1 OF 9 SHEETS	STA. 26+50.00 TO STA. 27+00.00	CONTRACT NO. 93568		FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0572(057)	
PLOT DATE = 10/21/2011	DATE -	REVISED -	REVISED -										

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NOTE BOOK NO.	PLOTTED	BY
	TEMPLATE	
	AREAS AS	
	AREAS CHECKED	

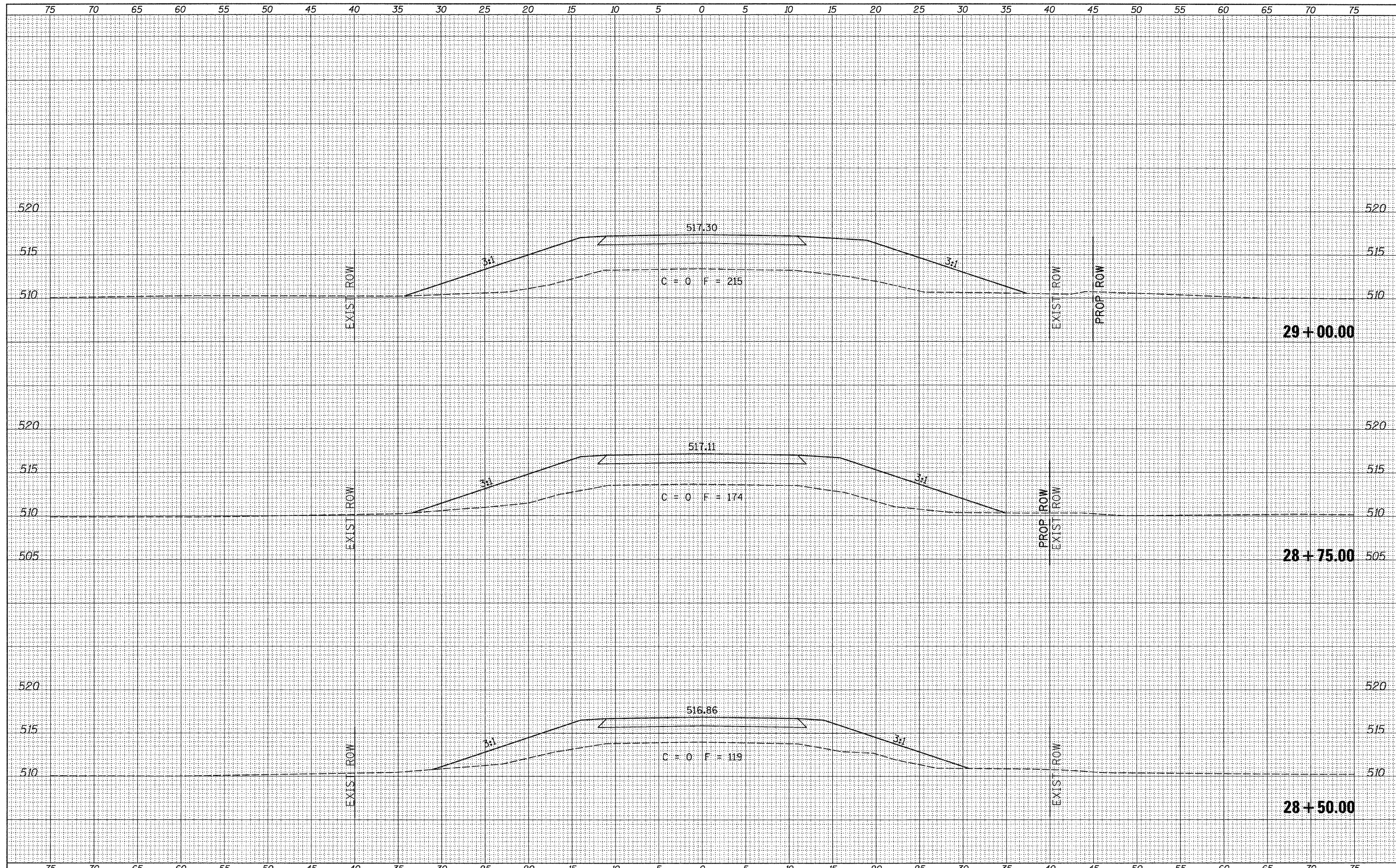
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NOTE BOOK NO.	PLOTTED	BY
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	PLOT SCALE = 5.0000' / IN.	DRAWN -	REVISED -		SCALE: 1"=5'	SHEET NO. 2 OF 9 SHEETS	STA. 27+50.00 TO STA. 28+25.00	CONTRACT NO. 93568		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-0572(305)	
	PLOT DATE = 10/21/2011	CHECKED -	REVISED -								
		DATE -	REVISED -								

DATE	
BY	
FINAL SURVEY	
NOTED	
TEMPLATE	
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DATE	
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TEMPLATE	
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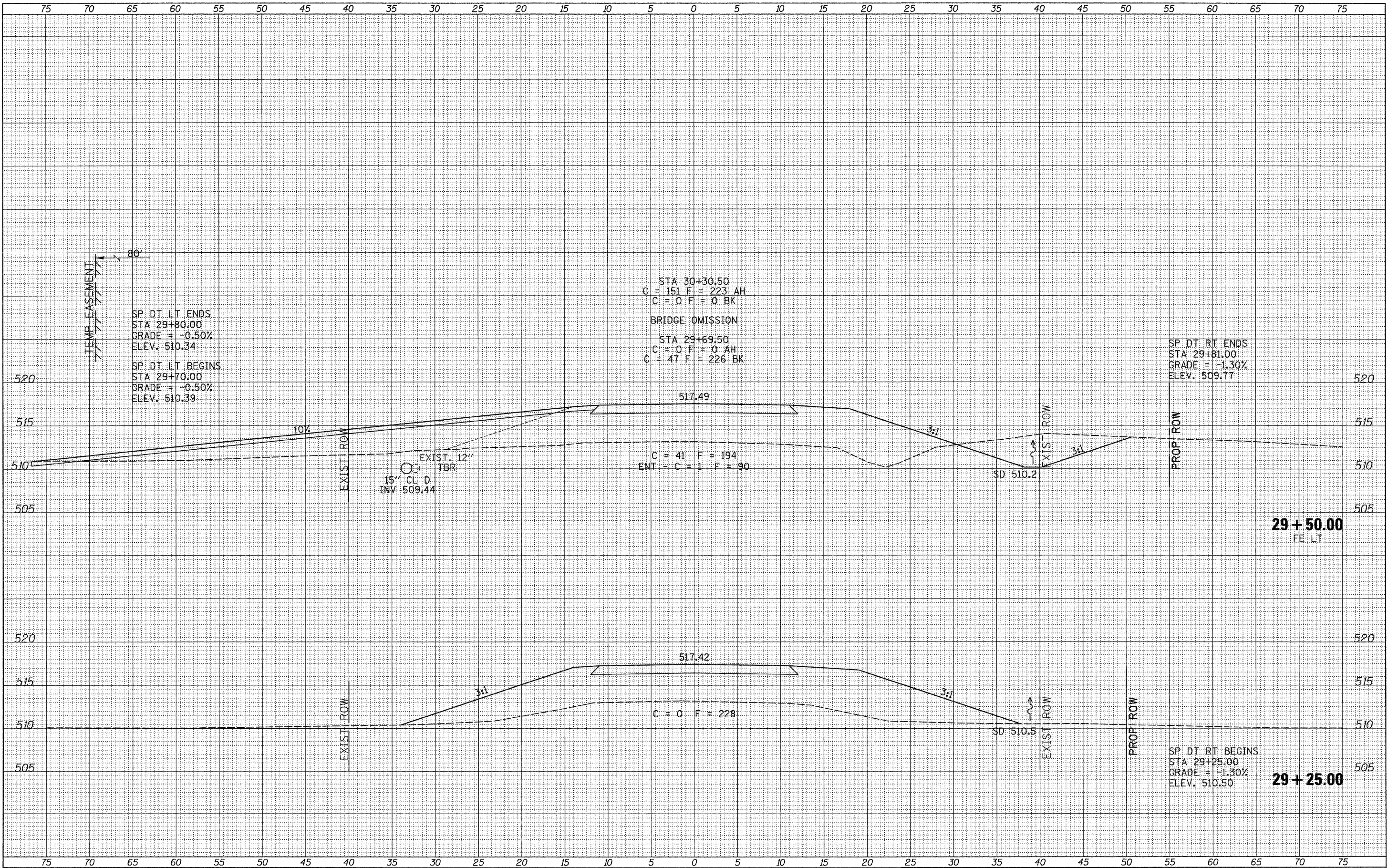


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		DRAWN -	REVISED -		572	10-00016-02-BR	MASON	22	16				
		CHECKED -	REVISED -		CONTRACT NO. 93568								
		DATE -	REVISED -		SCALE: 1"=5'	SHEET NO. 3 OF 9 SHEETS	STA. 28+50.00 TO STA. 29+00.00	FED. ROAD DIST. NO. 7 ILLINOIS	FED. AID PROJECT BRS-0572305				



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

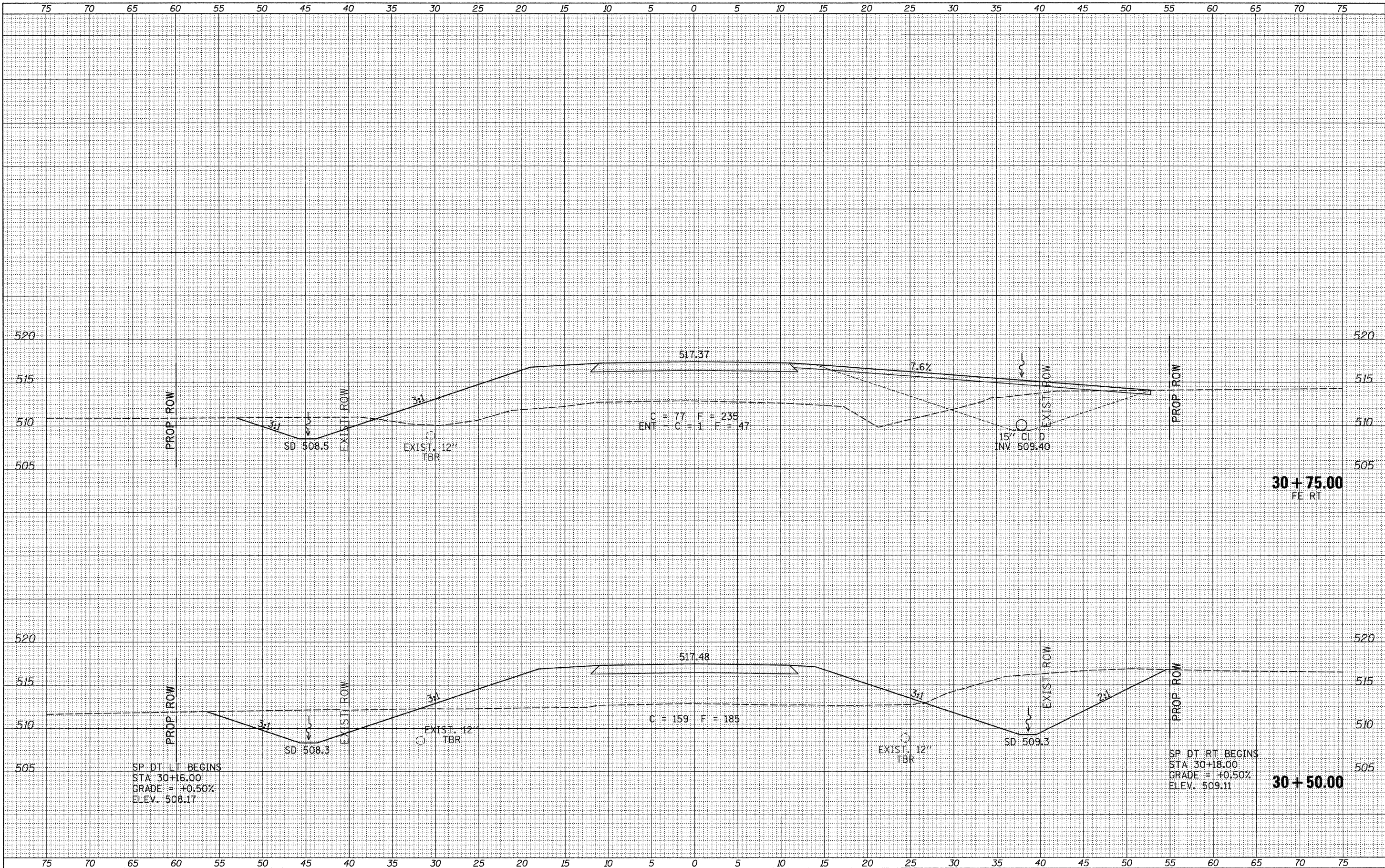
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BY	
ORIGINAL SURVEY	
NOTE BOOK	
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TEMP. EASEMENT	
AREAS CHECKED	



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PLOT SCALE = 5.0000' / IN.	CHECKED -	REVISED -	REVISED -		SCALE: 1"=5'	SHEET NO. 4 OF 9 SHEETS	STA. 29+25.00 TO STA. 29+50.00	CONTRACT NO. 93568		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-0572(305)			
PLOT DATE = 10/21/2011	DATE -	REVISED -	REVISED -										

FINAL SURVEY NO.	DATE
REVISIONS	BY
PLOTTED	
TEMPLATE	
AREAS CHECKED	

ORIGINAL SURVEY NO.	DATE
REVISIONS	BY
PLOTTED	
TEMPLATE	
AREAS CHECKED	



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CHECKED -	REVISED -
DATE -	REVISED -

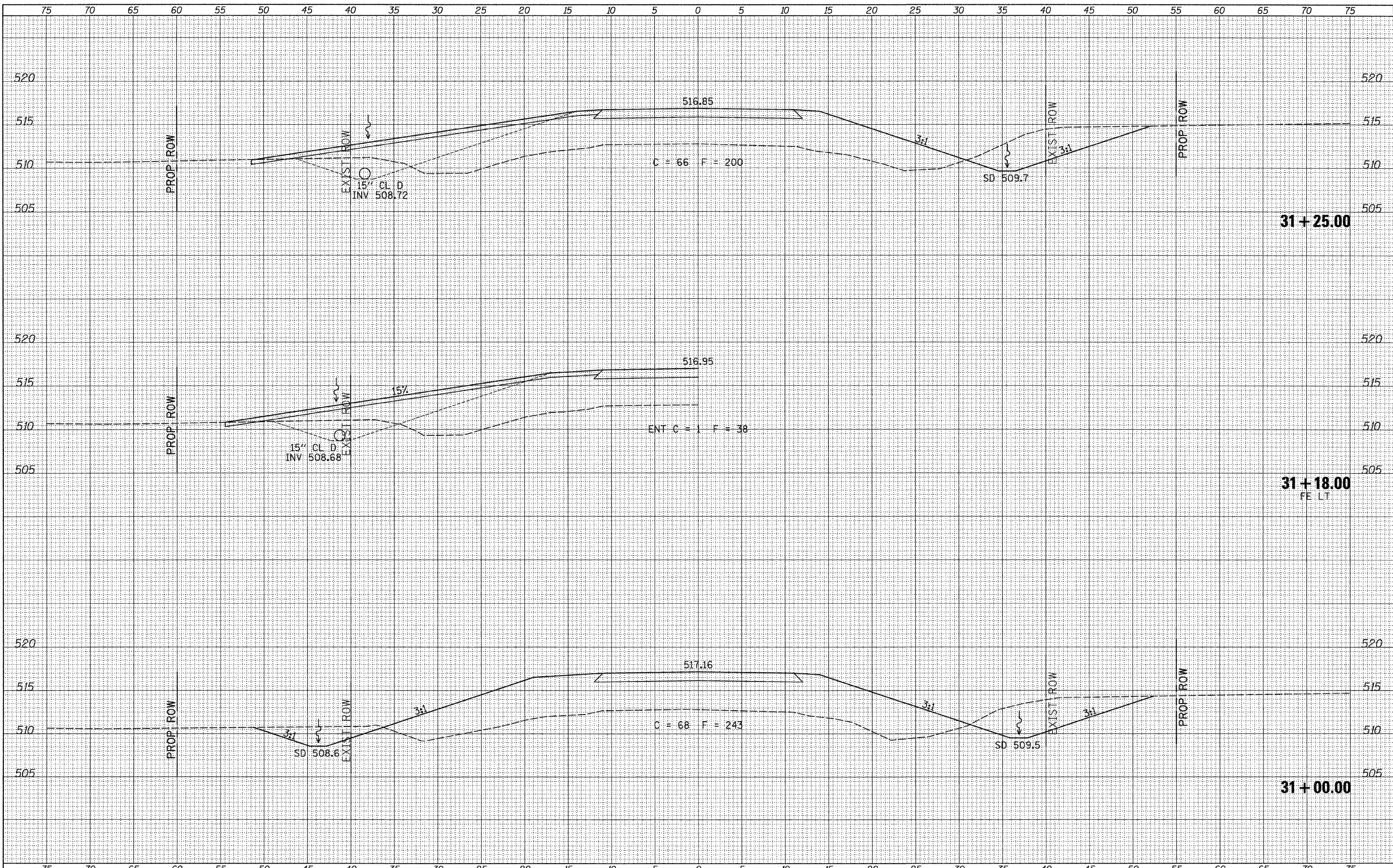
**MASON COUNTY  
 COUNTY HIGHWAY 5 OVER  
 DUFF ARMSTRONG DITCH**

**CROSS SECTIONS**  
 SCALE: 1"=5'  
 SHEET NO. 5 OF 9 SHEETS  
 STA. 30+50.00 TO STA. 30+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
572	10-00016-02-BR	MASON	22	18
CONTRACT NO. 93568				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-05723051				

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



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	DRAWN -	REVISED -
PLOT SCALE = 5.0000' / IN.	CHECKED -	REVISED -
PLOT DATE = 10/21/2011	DATE -	REVISED -

**MASON COUNTY  
 COUNTY HIGHWAY 5 OVER  
 DUFF ARMSTRONG DITCH**

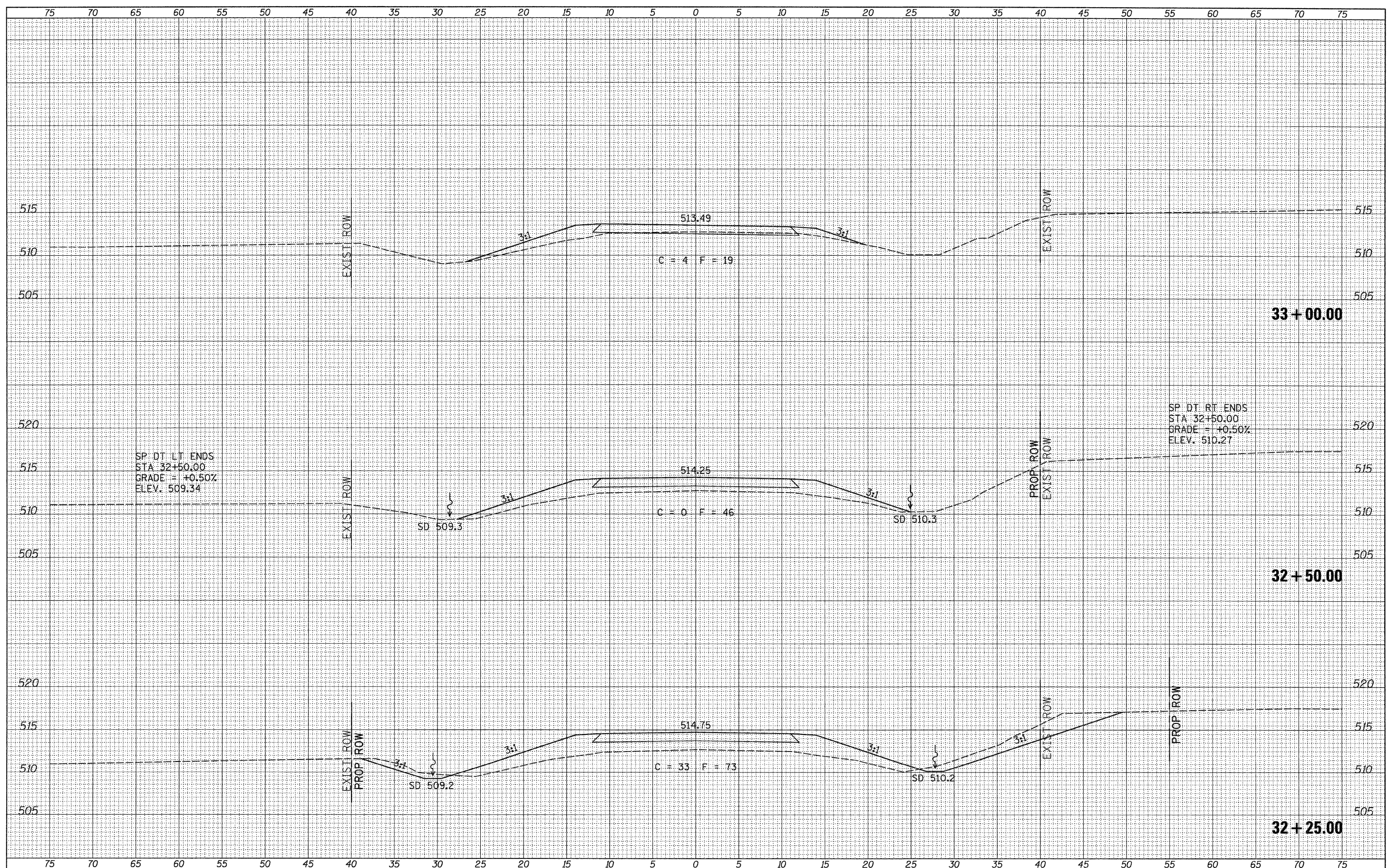
CROSS SECTIONS	
SCALE: 1"=5'	SHEET NO. 6 OF 9 SHEETS
STA. 31+00.00	TO STA. 31+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
572	10-00016-02-BR	MASON	22	19
CONTRACT NO. 93568				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BR5-0572(305)				



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

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	
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PLOT SCALE = 5.0000' / IN.	DRAWN -	REVISED -
PLOT DATE = 10/21/2011	CHECKED -	REVISED -
	DATE -	REVISED -

**MASON COUNTY  
 COUNTY HIGHWAY 5 OVER  
 DUFF ARMSTRONG DITCH**

**CROSS SECTIONS**

SCALE: 1"=5'      SHEET NO. 8 OF 9 SHEETS      STA. 32+25.00 TO STA. 33+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
572	10-00016-02-BR	MASON	22	21
CONTRACT NO. 93568				
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT BRS-0572(305)				

