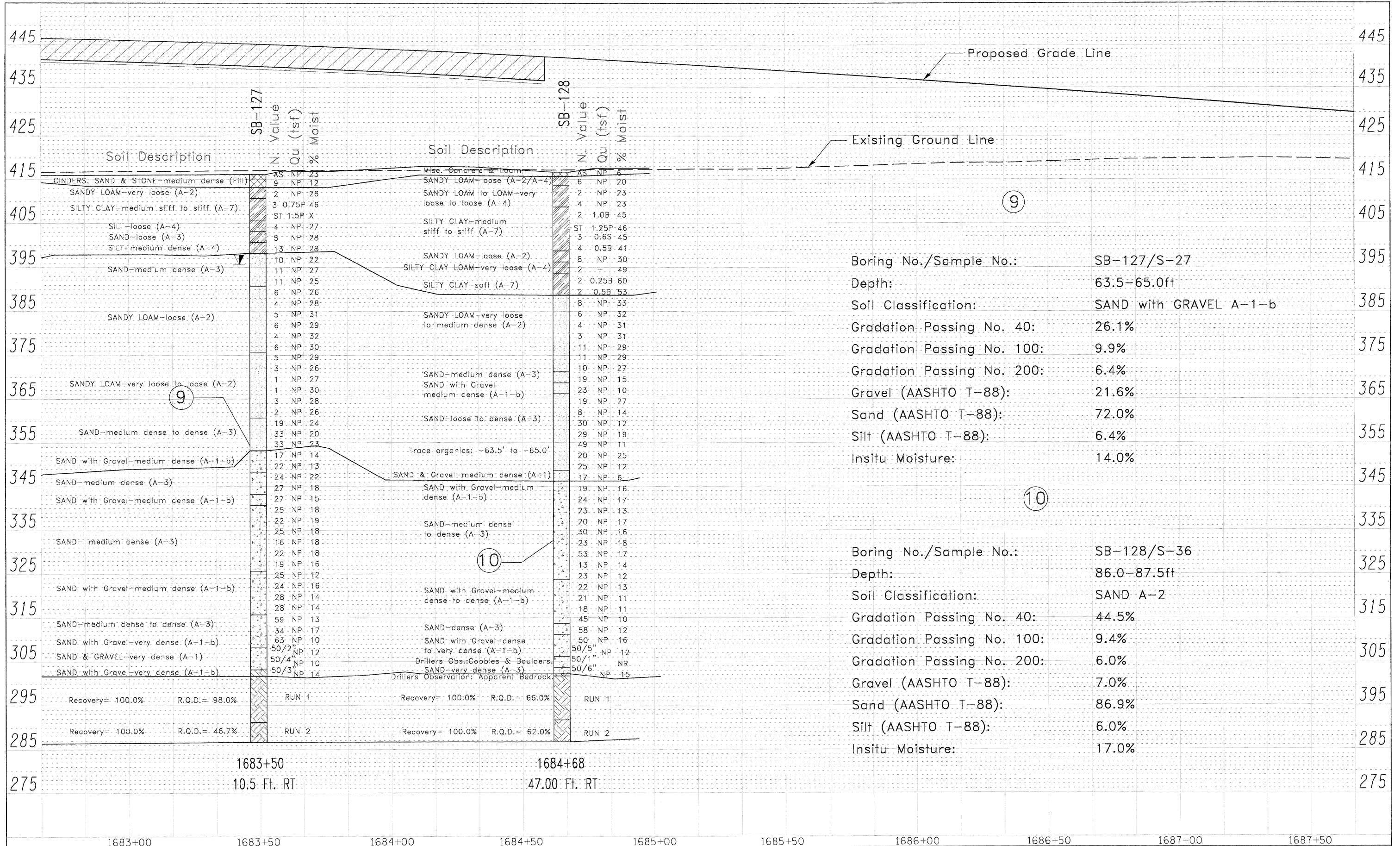


DATE	
BY	
REVISION	
APPROVED	
ALIGNMENT CHECKED	
CADD FILE NAME	
NO.	
PLAN	
NOTE BOOK	

DATE	
BY	
REVISION	
APPROVED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NO.	
PROFILE	
NOTE BOOK	

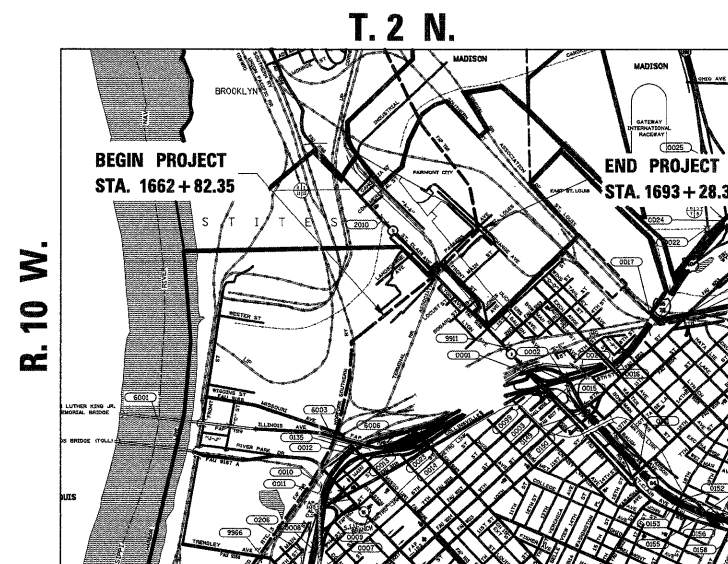


SHEET INDEX		
SHEET NO.	STATION TO STATION	DESCRIPTION
3	1660+00 TO 1680+00	
4	1680+00 TO 1693+28	
5	21+00 TO 34+00	EXCHANGE AVE.
6		TOTAL HOLDING SHEET

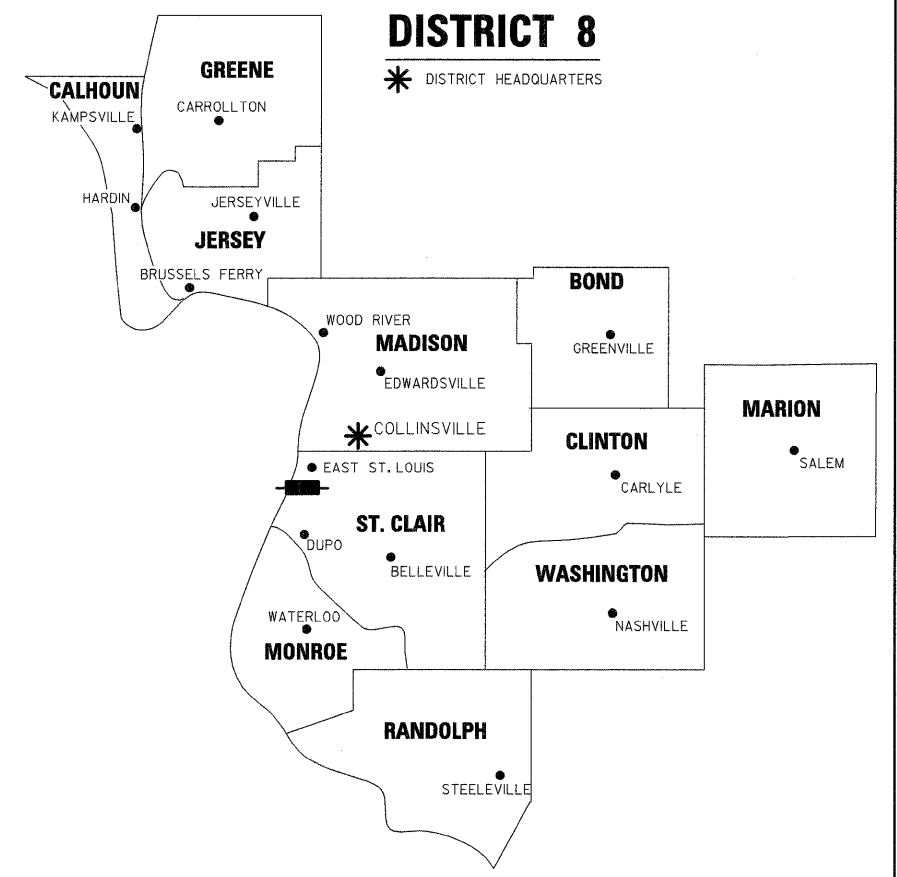
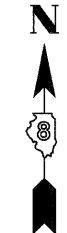
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLAT OF HIGHWAYS

FA ROUTE 998
SECTION 82-2-1K
ST. CLAIR COUNTY
JOB NO. R-98-026-08

SPACE RESERVED FOR RECORDING OFFICER

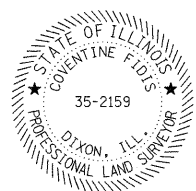


PROJECT LENGTH = 3,046 LIN. FT. = 0.5769 MILES



LOCATION OF SECTION INDICATED THUS:

PREPARED BY:



COVENTINE FIDIS, PLS NO. 35-2159
LICENSE EXPIRATION DATE: 11/30/2010

SHEET 1 OF

ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINSVILLE, ILLINOIS 62234-6198				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			345	102
CONTRACT NO.				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

109169/97258

PART OF U.S. SURVEY 626 & 627 & SEC. 12, T2N, R10W, OF THE 3RD PM, ST. CLAIR COUNTY, ILLINOIS

SEE COORDINATE LIST AND BASIS OF COORDINATES AND BEARINGS STATEMENT ON SHEET 2

PI STA. = 27+75.38
 Δ = 86°15'05" (RT)
 D = 9°32'57"
 R = 600.00'
 T = 561.98'
 L = 903.22'
 E = 222.08'
 P.C. STA = 22+13.40
 P.T. STA = 31+16.63

BEARINGS SHOWN HEREON ARE BASED ON THE MISSISSIPPI RIVER CROSSING (MRC) COORDINATE SYSTEM WHICH IS A MODIFIED UNIVERSAL TRANSVERSE MERCATOR (UTM) SYSTEM, ZONE 15 NORTH.



SPACE RESERVED FOR RECORDING OFFICER

- Ⓐ L = 81.17'
R = 50.00'
CH = 72.55'
CB = N 5°22'54" E
- Ⓑ 30.00' S 45°10'22" W
- Ⓒ 102.92' S 80°41'57" E
- Ⓓ L = 14.10'
R = 750.00'
CH = 14.10'
CB = S 26°48'18" E
- Ⓔ 138.97' S 49°40'18" W
- Ⓕ 90.00' N 44°40'36" W
- Ⓖ 74.79' N 39°57'16" E
- Ⓗ 116.37' S 80°41'57" E
- Ⓙ L = 71.84'
R = 705.00'
CH = 71.81'
CB = N 7°05'33" W
- Ⓚ L = 183.27'
R = 705.00'
CH = 182.75'
CB = N 33°40'45" W

STATE OF ILLINOIS)
) SS
 COUNTY OF)

I, COVENTINE FIDIS, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED

COVENTINE FIDIS, PLS NO. 35-2159
 LICENSE EXPIRATION DATE: 11/30/2010



PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION		REMAINDER ACRES	EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			ACRES	SQ. FT.		PE = PERMANENT ACRES	TE = TEMPORARY SQ. FT.		
8826130	METRO EAST SANITARY DISTRICT TITLE REPORT NO. SC-6223, SC-6225.1	25.1321	19.5320	850,814	5.6001	TE-A 0.3717 TE-B 0.2554 TE-C 0.0034	TE-A 16,193 TE-B 11,126	GRADING & SHAPING ENTRANCE CONSTRUCTION	01-12.0-100-013 01-12.0-100-021
8826131	WIGGINS FERRY COMPANY, AND ILLINOIS CORP. TITLE REPORT NO. SC-6222, SC-6341	42.7174	3.4673	151,036	39.2501	PE-A 0.0972 PE-B 0.0805 TE 0.0034	PE-A 4,236 PE-B 3,507 TE 150	DRAINAGE CONSTRUCTION & MAINTENANCE ENTRANCE CONSTRUCTION	SEE NOTE A
8826132	JACK OATS, INC., AN MISSOURI CORP. TITLE REPORT NO. SC-6221, SC-6225	14.4302	1.3577	59,143	13.0725	N/A	N/A		01-12.0-201-017 01-12.0-201-022 01-12.0-100-019 01-01.0-300-006

NOTE A
 01-12.0-100-004
 01-12.0-100-005
 01-12.0-100-006
 01-12.0-100-018
 01-12.0-100-019
 01-01.0-300-006

AMERICAN
 SURVEYING & ENGINEERING, P.C.
 841 N. Galena Ave. Dixon, IL 61021
 815-288-6231
 ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-003192 109169/97258

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAP ROUTE 998
 SECTION 82-2-1K
 ST. CLAIR COUNTY
 JOB NO. R-98-026-08
 STATION 1660+00 TO STATION 1680+00

SCALE: 1" = 100'

SHEET 3 OF 3

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
 1102 EASTPORT PLAZA DRIVE
 COLLINGSVILLE, ILLINOIS 62234-6198

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			345	104

COMPLETION DATE OF FIELD WORK PERFORMED

LAND SURVEY:	ROW STAKING:

CONTRACT NO.

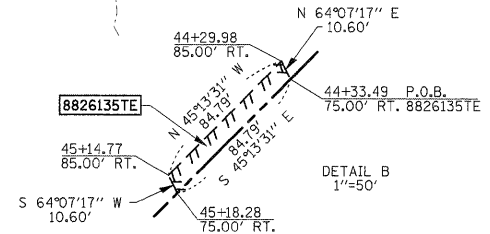
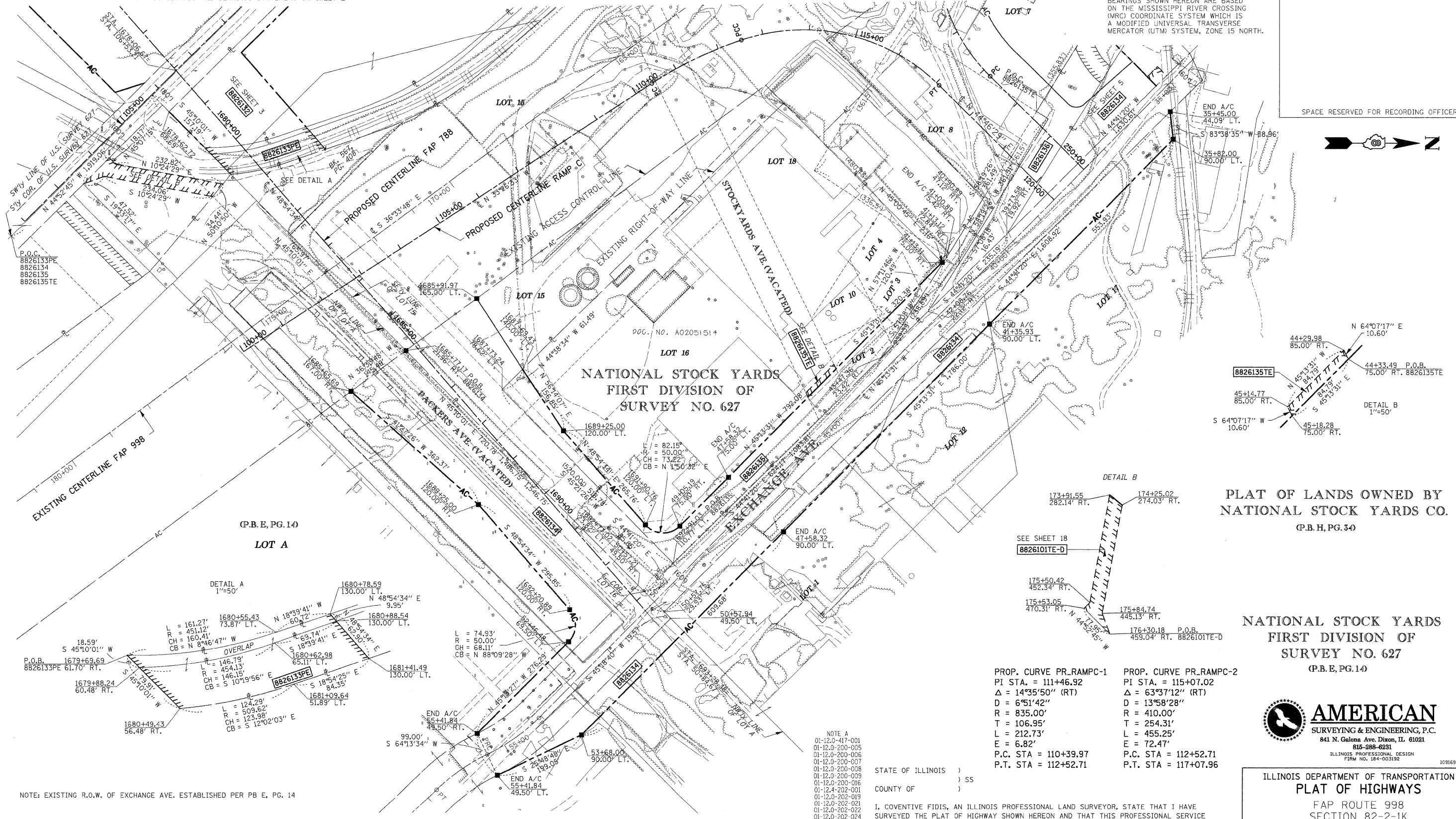
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT

PART OF U.S. SURVEY 627, T2N, R10W, OF THE 3RD PM, ST. CLAIR COUNTY, ILLINOIS

SEE COORDINATE LIST AND BASIS OF COORDINATES AND BEARINGS STATEMENT ON SHEET 2

BEARINGS SHOWN HEREON ARE BASED ON THE MISSISSIPPI RIVER CROSSING (MRC) COORDINATE SYSTEM WHICH IS A MODIFIED UNIVERSAL TRANSVERSE MERCATOR (UTM) SYSTEM, ZONE 15 NORTH.

SPACE RESERVED FOR RECORDING OFFICER



PLAT OF LANDS OWNED BY NATIONAL STOCK YARDS CO. (P.B.H, PG. 50)

NATIONAL STOCK YARDS FIRST DIVISION OF SURVEY NO. 627 (P.B.E, PG. 14)

PROP. CURVE PR_RAMPC-1
 PI STA. = 111+46.92
 Δ = 14°35'50" (RT)
 D = 6°51'42"
 R = 835.00'
 T = 106.95'
 L = 212.73'
 E = 6.82'
 P.C. STA = 110+39.97
 P.T. STA = 112+52.71

PROP. CURVE PR_RAMPC-2
 PI STA. = 115+07.02
 Δ = 63°37'12" (RT)
 D = 13°58'28"
 R = 410.00'
 T = 254.31'
 L = 455.25'
 E = 72.47'
 P.C. STA = 112+52.71
 P.T. STA = 117+07.96

STATE OF ILLINOIS)
 COUNTY OF) SS

I, COVENTINE FIDIS, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED

COVENTINE FIDIS, PLS NO. 35-2159
 LICENSE EXPIRATION DATE: 11/30/2010



NOTE: EXISTING R.O.W. OF EXCHANGE AVE. ESTABLISHED PER PB E, PG. 14

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION				EASEMENTS				PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY		
			GROSS ACRES	PREVIOUSLY DEDICATED ACRES	DEDICATED BY OCCUPATION ACRES	NET ACRES	REMAINDER ACRES	PE = PERMANENT ACRES	TE = TEMPORARY ACRES	EASEMENT PURPOSE				
8826133	ST. LOUIS NATIONAL STOCKYARDS COMPANY TITLE REPORT NO. SC-6224	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	PE 0.2883 TE 12.557	BRIDGE CONSTRUCTION & MAINTENANCE	01-12.0-201-026	
8826134	ST. LOUIS NATIONAL STOCKYARDS COMPANY TITLE REPORT NO. SC-6353, 6160, 6315, 6316	198.9095	8.3531	363,861	2,2311	97,187	1,1006	47,944	5,0214	218,730	190,5564	TE 0.0193 TE 839	ENTRANCE CONSTRUCTION	NOTE A
8826135	250 PACKERS AVENUE, L.L.C., A MISSOURI L.L.C. TITLE REPORT NO. SC-5457	10.2300	1.1821	51,493	N/A	N/A	N/A	N/A	N/A	N/A	N/A	TE 0.0195 TE 848	ENTRANCE CONSTRUCTION	01-12.0-201-027
8826136	NORFOLK SOUTHERN RAILWAY COMPANY TITLE REPORT NO. SC-6339	N/A	0.9540	41,578	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		01-12.0-511-005

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAP ROUTE 998
 SECTION 82-2-1K
 ST. CLAIR COUNTY
 JOB NO. R-98-026-08
 STATION 1680+00 TO STATION 1693+28

SCALE: 1" = 100'

SHEET 4 OF 4

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
 1102 EASTPORT PLAZA DRIVE
 COLLINSVILLE, ILLINOIS 62234-6198

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			345	105

COMPLETION DATE OF FIELD WORK PERFORMED

LAND SURVEY:	ROW STAKING:
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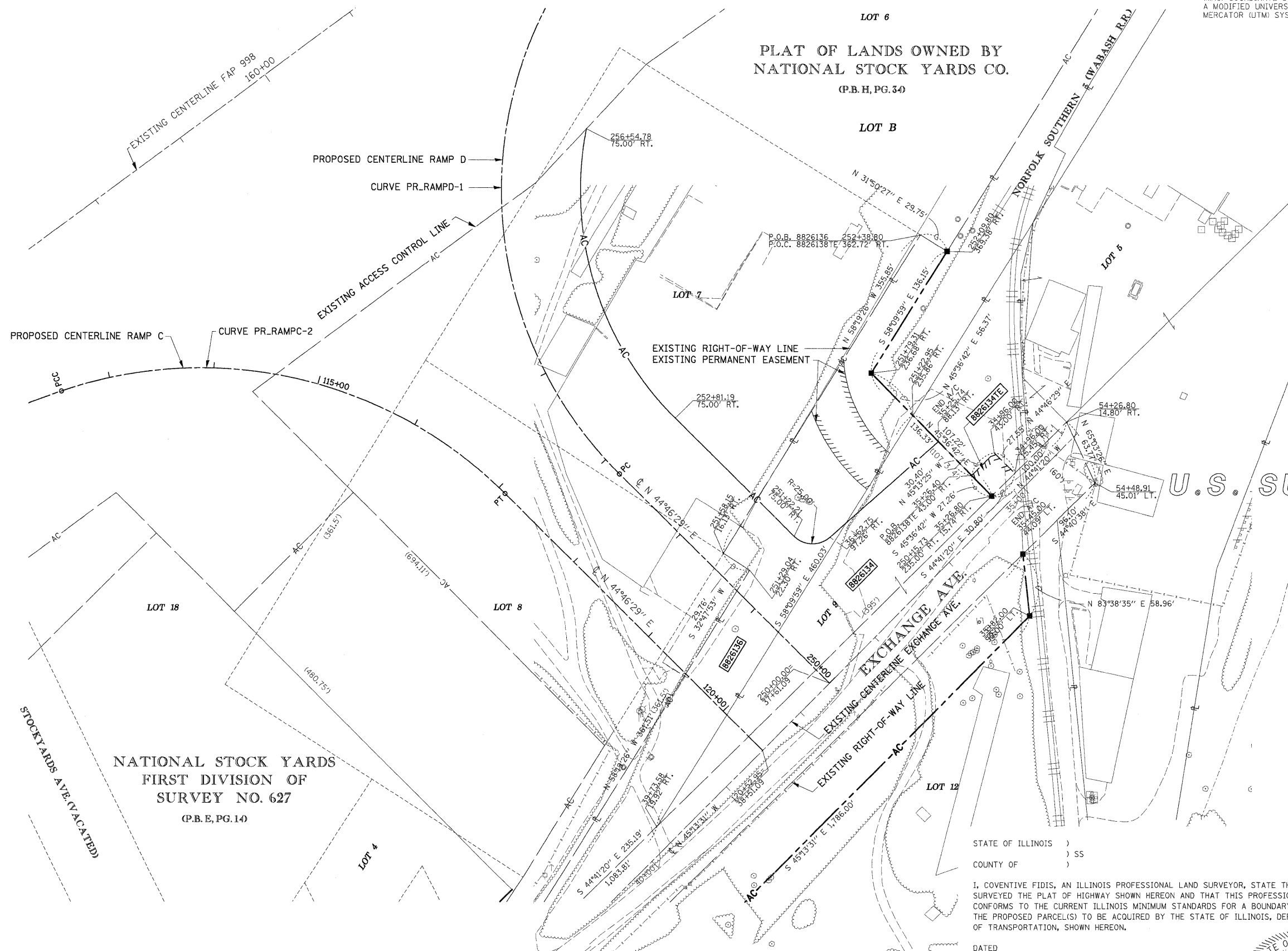
CONTRACT NO.

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

SEE COORDINATE LIST AND BASIS OF COORDINATES AND BEARINGS STATEMENT ON SHEET 2

BEARINGS SHOWN HEREON ARE BASED ON THE MISSISSIPPI RIVER CROSSING (MRC) COORDINATE SYSTEM WHICH IS A MODIFIED UNIVERSAL TRANSVERSE MERCATOR (UTM) SYSTEM, ZONE 15 NORTH.

SPACE RESERVED FOR RECORDING OFFICER



PROP. CURVE PR_RAMPC-2
 PI STA. = 115+07.02
 Δ = 63°37'12" (RT)
 D = 13°58'28"
 R = 410.00'
 T = 254.31'
 L = 455.25'
 E = 72.47'
 P.C. STA = 112+52.71
 P.T. STA = 117+07.96

PROP. CURVE PR_RAMPD-1
 PI STA. = 257+14.62
 Δ = 97°30'58" (RT)
 D = 15°04'40"
 R = 380.00'
 T = 433.43'
 L = 646.75'
 E = 196.42'
 P.C. STA. = 252+81.19
 P.T. STA. = 259+27.94

U.S. SURVEY 627

NATIONAL STOCK YARDS
 FIRST DIVISION OF
 SURVEY NO. 627
 (P.B.E, PG. 14)

NATIONAL STOCK YARDS
 FIRST DIVISION OF
 SURVEY NO. 627
 (P.B.E, PG. 14)

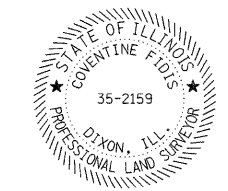
AMERICAN
 SURVEYING & ENGINEERING, P.C.
 841 N. Galena Ave. Dixon, IL 61021
 815-288-6251
 ILLINOIS PROFESSIONAL DESIGN
 FIRM NO. 184-003192 109169/97258

STATE OF ILLINOIS)
) SS
 COUNTY OF)

I, COVENTINE FIDIS, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED

COVENTINE FIDIS, PLS NO. 35-2159
 LICENSE EXPIRATION DATE: 11/30/2010



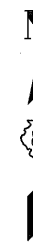
ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAP ROUTE 998
 SECTION 82-2-1K
 ST. CLAIR COUNTY
 JOB NO. R-98-026-08
 STATION 21+00 TO STATION 30+00
 SCALE: 1" = 50'
 SHEET 5 OF 5

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
 1102 EASTPORT PLAZA DRIVE
 COLLINSVILLE, ILLINOIS 62234-6198

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			345	106

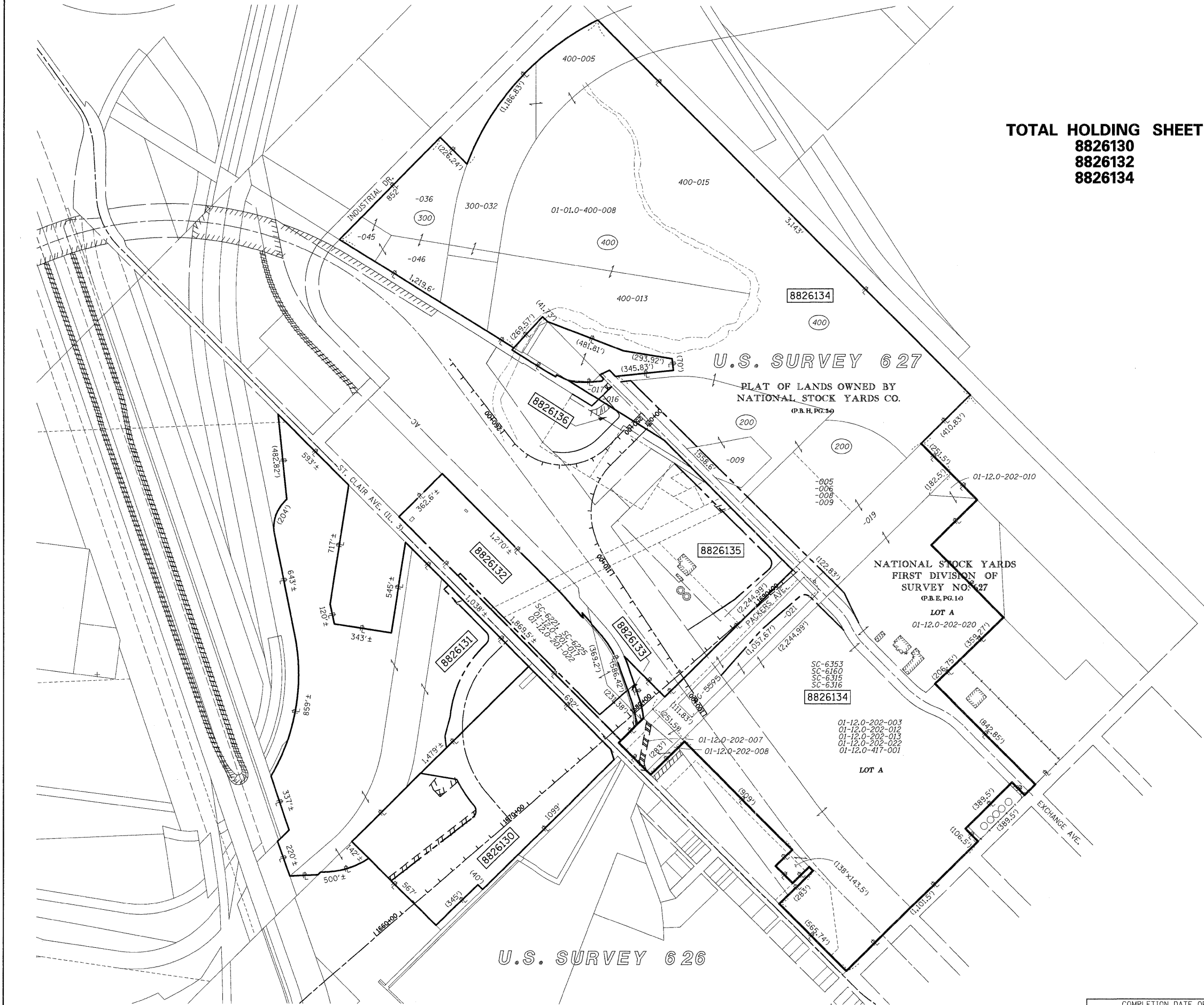
COMPLETION DATE OF FIELD WORK PERFORMED		CONTRACT NO.
LAND SURVEY:	ROW STAKING:	

FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT



SPACE RESERVED FOR RECORDING OFFICER

TOTAL HOLDING SHEET
8826130
8826132
8826134



STATE OF ILLINOIS)
) SS
 COUNTY OF)

I, COVENTINE FIDIS, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED _____



COVENTINE FIDIS, PLS NO. 35-2159
 LICENSE EXPIRATION DATE: 11/30/2010

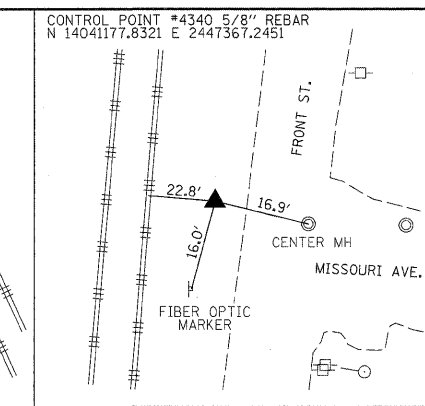
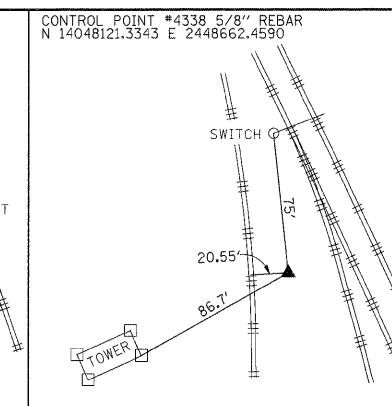
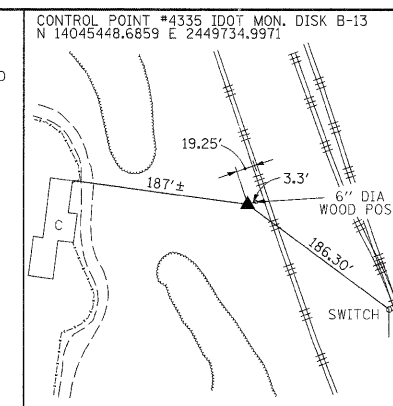
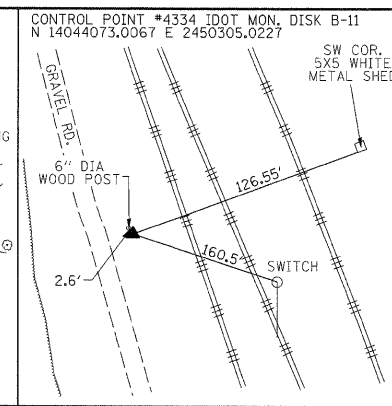
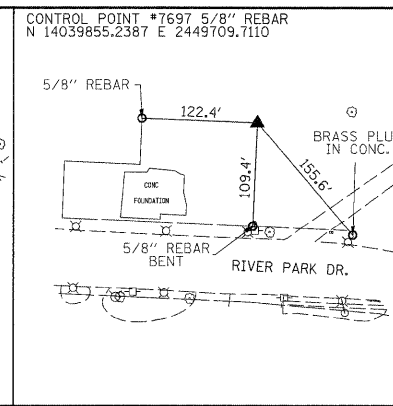
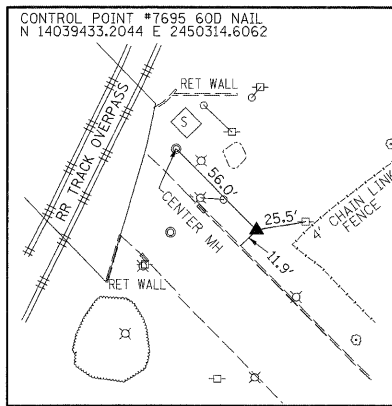
ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAP ROUTE 998
 SECTION 82-2-1K
 ST. CLAIR COUNTY
 JOB NO. R-98-026-08
 STATION 1660+00 TO STATION 1693+00

300' 0 300' 600'
 SCALE: 1" = 300'

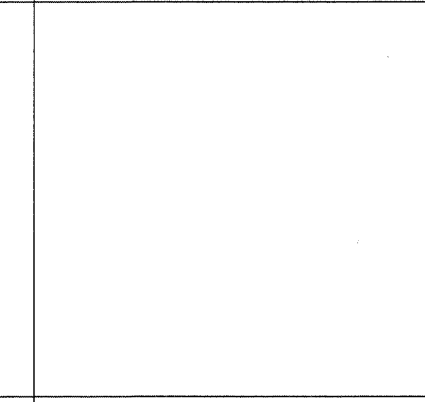
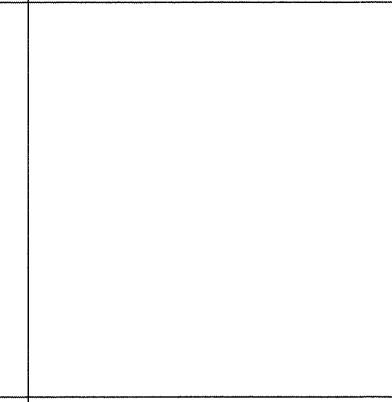
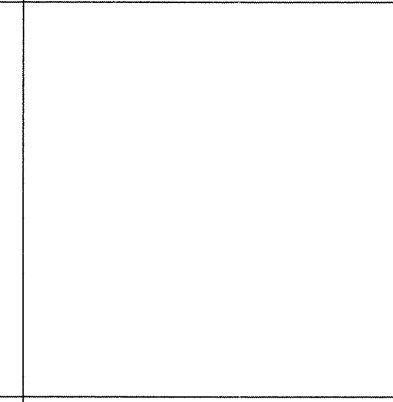
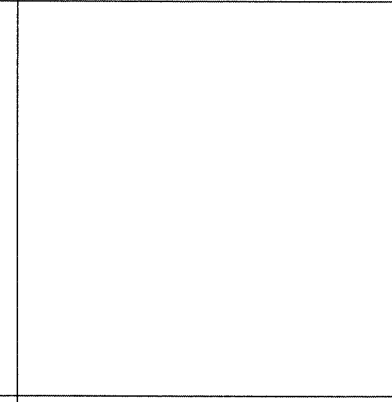
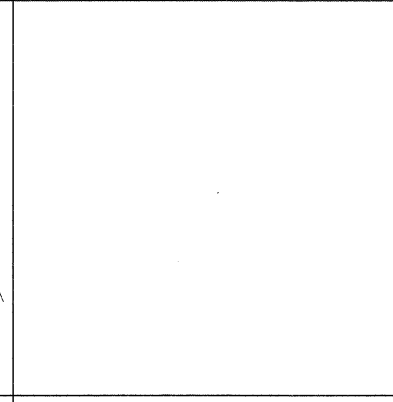
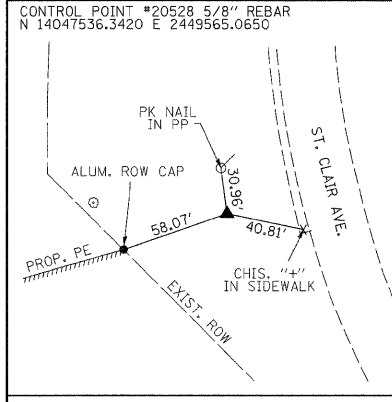
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
 1102 EASTPORT PLAZA DRIVE
 COLLINGSVILLE, ILLINOIS 62234-6198

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			345	107

COMPLETION DATE OF FIELD WORK PERFORMED _____
 LAND SURVEY: _____ ROW STAKING: _____ CONTRACT NO. _____
 FED. ROAD DIST. NO. [] ILLINOIS FED. AID PROJECT []



SPACE RESERVED FOR RECORDING OFFICER



109169/97258

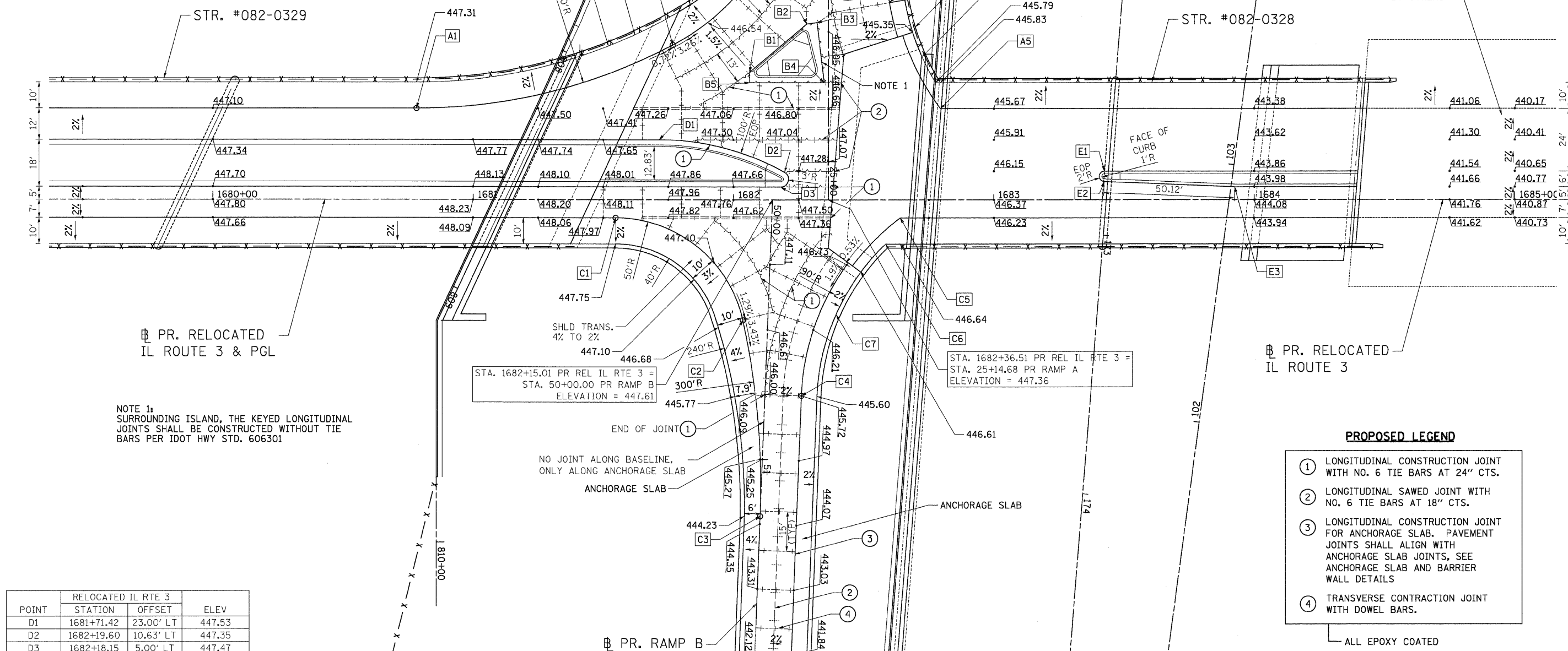
ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINSVILLE, ILLINOIS 62234-6198				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			345	107A
CONTRACT NO.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

MATCH LINE STA. 23+30

SEE SHEET 109

POINT	RELOCATED IL RTE 3		RAMP A		ELEV
	STATION	OFFSET	STATION	OFFSET	
A1	1680+78.26	35.00' LT	24+79.68	158.25' RT	447.52
A2	1681+76.69	59.50' LT	24+55.18	59.81' RT	446.78
A3	1682+24.51	139.00' LT	23+75.68	12.00' RT	443.60
A4	1682+58.51	92.00' LT	24+22.68	22.00' LT	444.89
A5	1682+79.51	35.00' LT	24+79.68	43.00' LT	446.03
B1	1682+06.19	49.00' LT	24+65.68	30.32' RT	446.91
B2	1682+28.12	67.65' LT	24+47.04	8.39' RT	445.82
B3	1682+32.09	68.12' LT	24+46.56	4.41' RT	445.88
B4	1682+34.83	45.00' LT	24+69.68	1.67' RT	446.48
B5	1682+06.19	45.00' LT	24+69.68	30.32' RT	446.80

POINT	RELOCATED IL RTE 3		RAMP B		ELEV
	STATION	OFFSET	STATION	OFFSET	
C1	1681+54.75	7.00' RT	50+09.33	59.94' RT	447.95
C2	1682+03.60	46.34' RT	50+46.75	9.60' RT	447.08
C3	1682+10.27	121.94' RT	51+22.03	0.00' LT	444.47
C4	1682+26.09	75.43' RT	50+74.94	14.00' LT	445.73
C5	1682+64.02	7.00' RT	50+05.09	49.25' LT	446.84
C6	1682+58.42	17.00' RT	50+15.30	44.04' LT	446.72
C7	1682+39.43	44.08' RT	50+43.10	26.11' LT	446.23



PR. RELOCATED IL ROUTE 3 & PGL

NOTE 1:
SURROUNDING ISLAND, THE KEYED LONGITUDINAL JOINTS SHALL BE CONSTRUCTED WITHOUT TIE BARS PER IDOT HWY STD. 606301

STA. 1682+15.01 PR REL IL RTE 3 = STA. 50+00.00 PR RAMP B ELEVATION = 447.61

STA. 1682+36.51 PR REL IL RTE 3 = STA. 25+14.68 PR RAMP A ELEVATION = 447.36

- PROPOSED LEGEND**
- ① LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6 TIE BARS AT 24" CTS.
 - ② LONGITUDINAL SAWED JOINT WITH NO. 6 TIE BARS AT 18" CTS.
 - ③ LONGITUDINAL CONSTRUCTION JOINT FOR ANCHORAGE SLAB. PAVEMENT JOINTS SHALL ALIGN WITH ANCHORAGE SLAB JOINTS, SEE ANCHORAGE SLAB AND BARRIER WALL DETAILS
 - ④ TRANSVERSE CONTRACTION JOINT WITH DOWEL BARS.

ALL EPOXY COATED

POINT	RELOCATED IL RTE 3		ELEV
	STATION	OFFSET	
D1	1681+71.42	23.00' LT	447.53
D2	1682+19.60	10.63' LT	447.35
D3	1682+18.15	5.00' LT	447.47
E1	1683+42.51	11.00' LT	445.29
E2	1683+42.43	7.00' LT	445.37
E3	1683+92.51	5.00' LT	444.18

MATCH LINE STA. 51+80
SEE SHEET 110

FILE NAME = USER NAME = #USER* DESIGNED - JB REVISED - DRAWN - AG REVISED - CHECKED - ACL REVISED - DATE - 05/13/11 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
RELOCATED ILLINOIS ROUTE 3

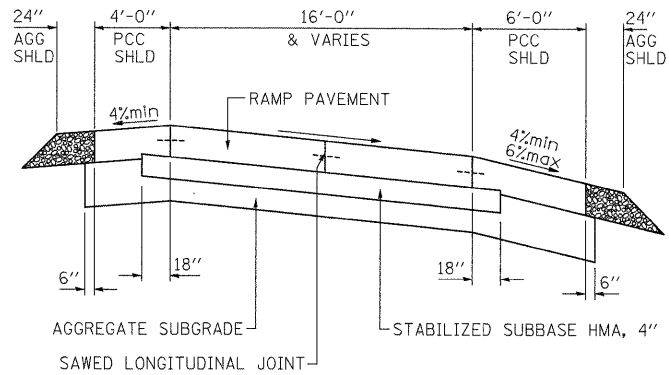
PROPOSED RELOCATED ILLINOIS ROUTE 3
INTERSECTION DETAIL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	108
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. T6D05	

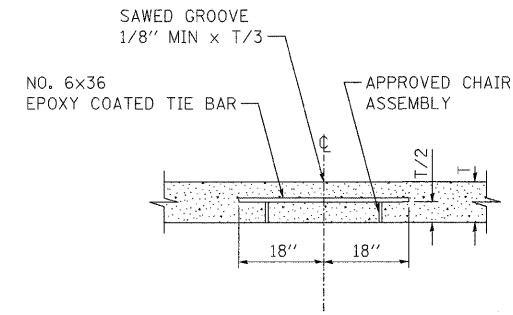
SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.



TENG & ASSOCIATES, INC.
ENGINEERS, ARCHITECTS, PLANNERS
CHICAGO, ILLINOIS



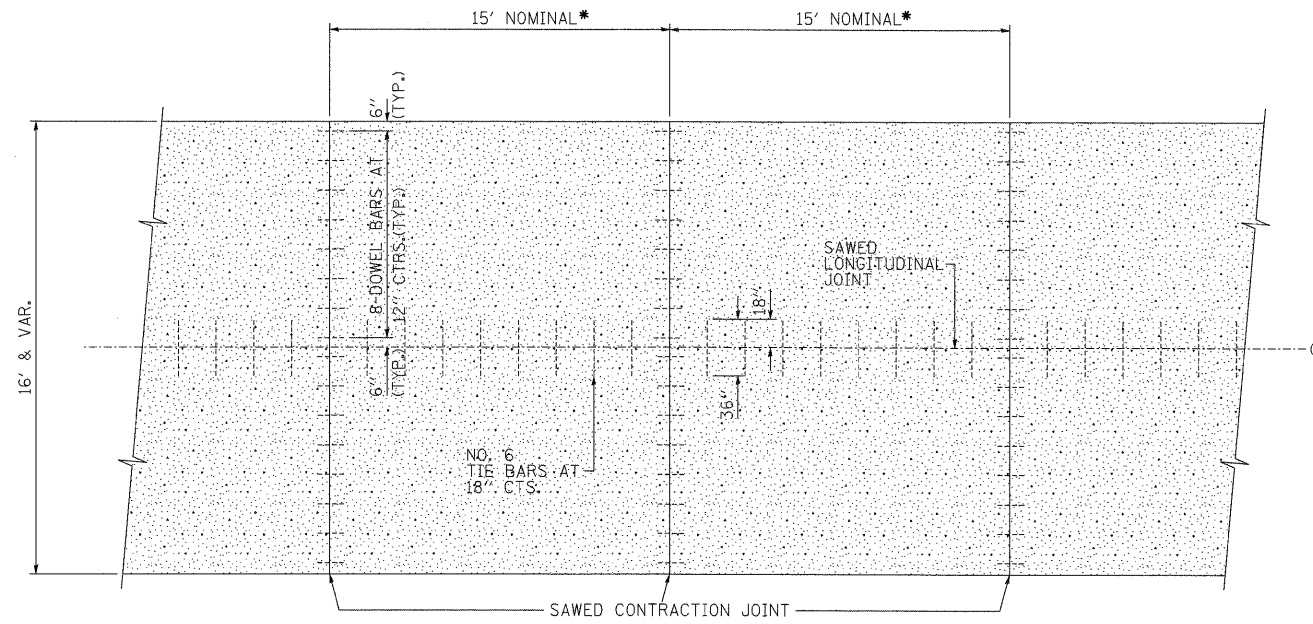
SECTION



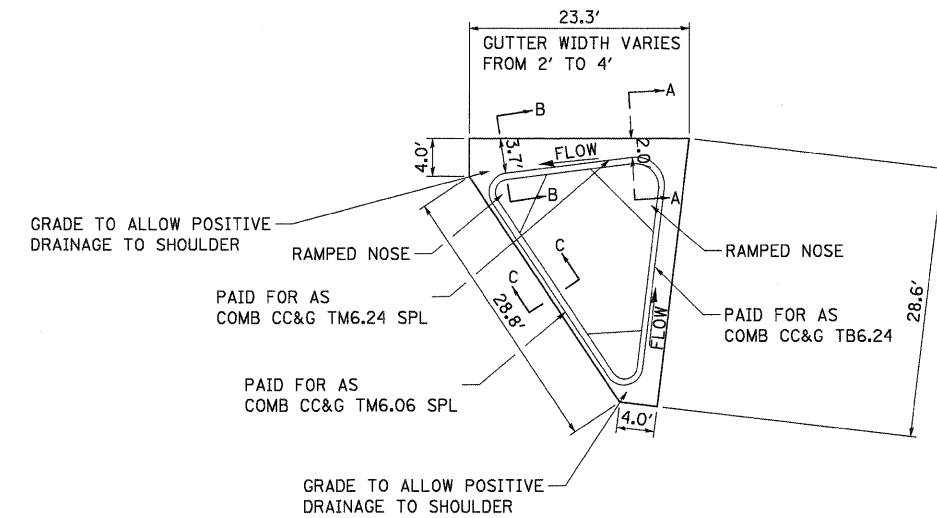
SAWED LONGITUDINAL JOINT

- NOTES:
1. CENTERLINE JOINT REMAINS IN THE CENTER WHEN RAMP TRANSITIONS TO TWO (2) LANES AT 12' EACH.
 2. ALL BARS TO BE EPOXY COATED.

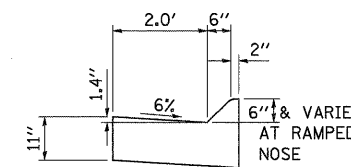
* THE 15' DIMENSION SHALL BE ADJUSTED TO 12' MIN. TO 18' MAX. WHEN PLACED ADJACENT TO EXISTING PCC PAVEMENT STRUCTURE SO THAT JOINTS ARE IN PROLONGATION.



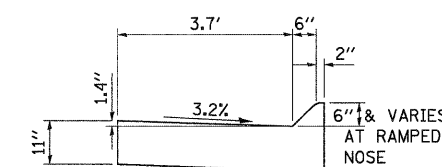
PLAN



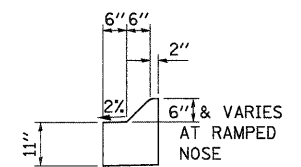
RAMP A CORNER ISLAND



SECTION A-A



SECTION B-B

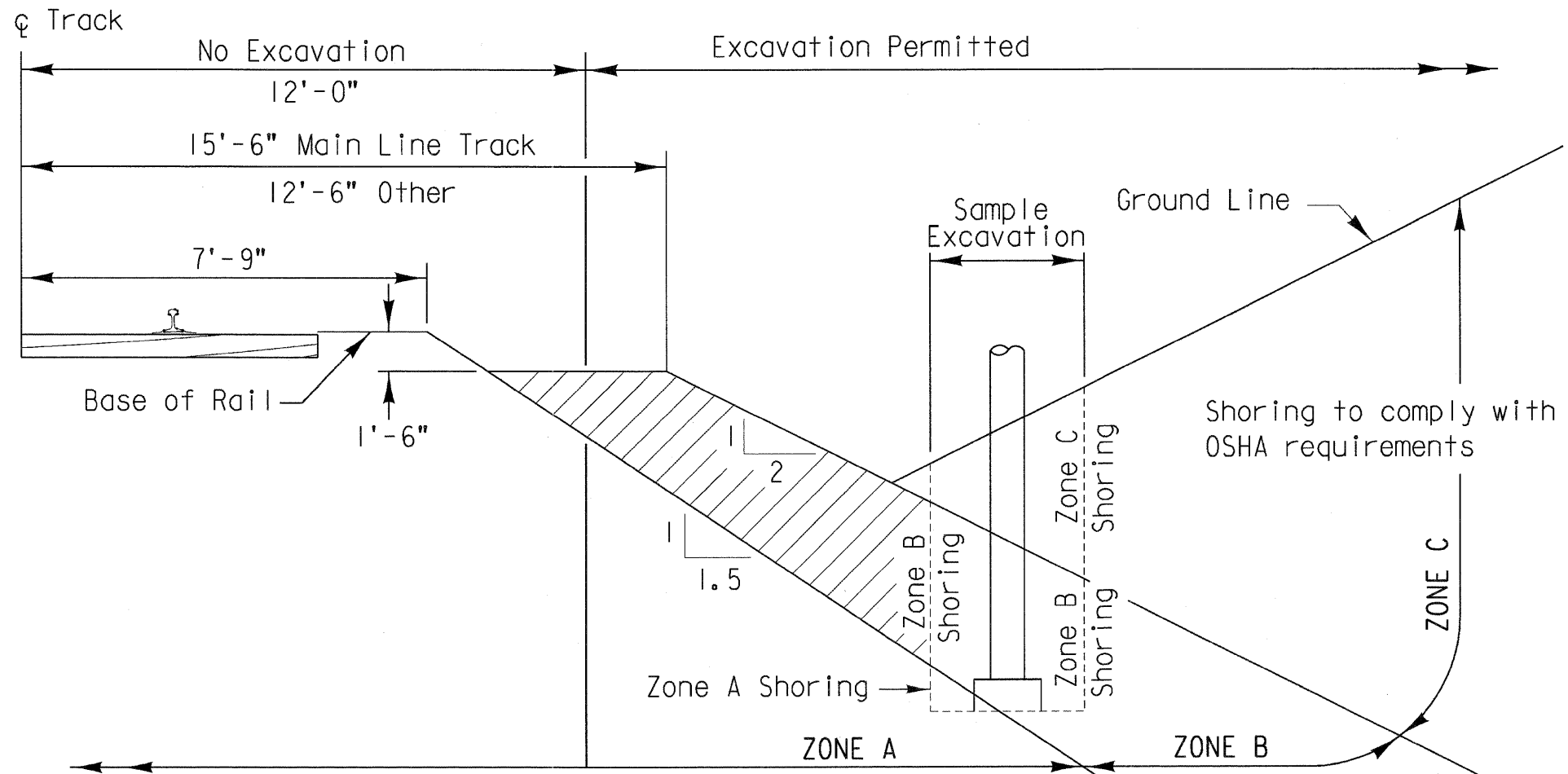


SECTION C-C

COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24 (SPECIAL) & COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06 (SPECIAL)

.\BDCDNN-99-R01\IFL.DGN, .\BDCDNN-10-BORDERL.DGN, .\BDCDNN-10-MOTIFL.DGN, .\BDCDNN-10-ROADL.DGN, .\BDCDNN-10-SHT-PVTDDETAIL.DGN
 BONDHOLD \\FS-0044\AKM\VALTLD-TRANS_07_2202_2006-001\CVL\CAD\19 ALL CONTRACTS\CONNS SHEETS CONTRACT 18\BDCDNN-10-SHT-PVTDDETAIL.DGN

FILE NAME = #FILEL#	USER NAME = #USER#	DESIGNED - JB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION RELOCATED ILLINOIS ROUTE 3	DETAIL FOR CENTERLINE SAW CUT 16' & VARIABLE JOINTED PCC PAVEMENT FOR RAMPS COMBINATION CONCRETE CURB AND GUTTER DETAILS	F.A.P. RTE. 998	SECTION 82-2-1HVB-1	COUNTY ST. CLAIR	TOTAL SHEETS 345	SHEET NO. 111		
TENG	TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	DRAWN - JFS	REVISED -			SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	CONTRACT NO. 76D05			
		CHECKED - JB	REVISED -									
		DATE - 05/13/11	REVISED -									



Shoring must be designed for Railroad live load surcharge in addition to OSHA Standard loads for excavation in Zone A.
APPLICABLE RAILROAD LIVE LOAD: COOPER E80

Only vertical shoring will be permitted for excavation in this Zone, (no sloping cuts)
 Shoring to comply with OSHA requirements

GENERAL NOTES:

All dimensions are measured perpendicular to ϕ of track.
 Prior to commencing any work, the contractor shall submit for approval by the Railroad detailed plans indicating the nature and extent of the track protection shoring proposed. The contractor shall install the temporary shoring system per the approved plans. Design of the temporary shoring system to comply with **GUIDELINES FOR TEMPORARY SHORING.**

For excavations which encroach into zone A or B, shoring plans shall be accompanied by design calculations. Plans and calculations must be signed and stamped by a Professional Engineer registered in the state where the work will be performed.

GENERAL EXCAVATION ZONES

SCALE: (NOT TO SCALE)

REVISIONS		
DATE	LTR.	DESCRIPTION
5 / 03	1	FORMERLY UPRR C.E. 106613
/		
/		
/		
/		
/		

DESIGN BY: PGP DRAWN BY: JFS CHECKED BY: AA
 APPROVED:
K.H. Tennison
 BNSF - ASSISTANT DIRECTOR STRUCTURES DESIGN
Steve J. Mann 9-1-04
 UPRR - MGR SPECIAL PROJECTS STRUCTURES DESIGN

BRIDGE STANDARDS
GENERAL SHORING REQUIREMENTS
 FILE OWNER: UPRR DATE: 5-6-03
 PLAN NO.: 710000 SHEET: 1 OF 1
 PLOTTED: \$\$\$DATE\$\$\$ \$TIME

FOR INFORMATION ONLY

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 USER NAME = #USER#
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 DRAWN - JFS
 CHECKED - ACL
 PLOT DATE = #DATE#
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 DRAWN - JFS
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 DATE - 05/13/11
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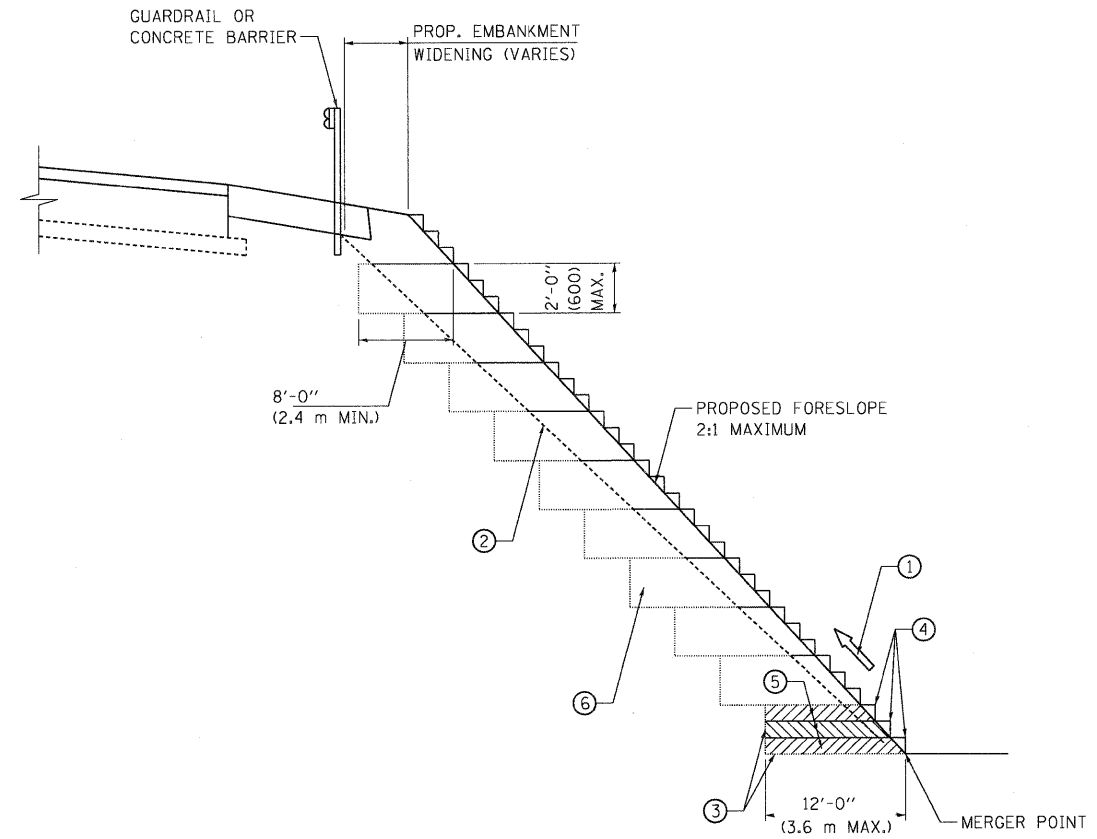
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 RELOCATED ILLINOIS ROUTE 3

GENERAL SHORING REQUIREMENTS
ADJACENT TO RAILROAD
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	112
CONTRACT NO. 76D05				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

\FS-0044\ANVALL.D - FRANG_07\2202\2008-08\CIVIL\ACD\99 ALL CONTRACTS\CONNSHEETS CONTRACT 10\DRCONN-10-SHT-PYDE\FULLDGN
 5-11-2011 11:03:53
 NEWMAN.D





**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

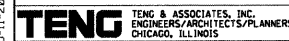
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 BELMANN
 \S:\S\0044\AM\VAULT_ID_TRAN\07A\222A\20866\001\CIVIL\CAD\99 ALL CONTRACT\CONNS\SHEETS CONTRACT 18\UBCONN-10-SHT-PV\DETAIL\2.DGN
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		DRAWN - JFS	REVISED -
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	PLOT DATE = #DATE#	DATE - 05/13/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 RELOCATED ILLINOIS ROUTE 3

BENCHING DETAIL FOR EMBANKMENT WIDENING			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76D05				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		













GENERAL NOTES

1. NEW WIRE SPLICES, FUSES, FUSEHOLDER AND SURGE PROTECTORS SHALL BE PROVIDED AND INSTALLED FOR ALL LUMINAIRES BEING INSTALLED. THIS WORK SHALL BE INCLUDED IN THE COST OF THE LUMINAIRE.
2. ALL LIGHTING UNITS SHALL BE LABELED ACCORDING TO THE STANDARD SPECIFICATIONS, ARTICLE 1069.06. LIGHTING UNIT NUMBERS, WATTAGE, AND VOLTAGE SHALL BE AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.
3. ALL MEASUREMENTS FOR ATTACHMENTS ARE APPROXIMATE. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND FABRICATE TO FIT.
4. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
5. THE EQUIPMENT GROUNDING CONDUCTOR (GREEN GROUND) MUST BE CONTINUOUS THROUGHOUT EACH CIRCUIT.
6. EACH CABLE SHALL BE UNIQUELY MARKED FOR IDENTIFICATION IN ORDER TO DISTINGUISH BETWEEN CIRCUITS AND INDIVIDUAL CABLES WITHIN A CIRCUIT. MARKERS SHALL BE VISIBLE AT ALL POINTS OF ENTRY, SUCH AS JUNCTION BOXES, PULL BOXES, HANDHOLES, ETC.
- ~~7. COOPERATION BETWEEN THE CONTRACTORS SHALL BE AS PER ARTICLES 1069.08 OF THE STANDARD SPECIFICATIONS.~~
7. EXCEPT FOR WIRES AND/OR CABLES ON STRUCTURE, OR CROSSING OR BENEATH PAVED AREAS, WIRES AND CABLES BETWEEN POLES OR BOXES SHALL BE DIRECT BURIED.


GROUND MOUNTED POLE NOTES

1. AFTER NEW CABLE IS INSTALLED, FOUNDATIONS SHALL BE FILLED WITH FINE AGGREGATE ACCORDING TO ARTICLE 836.03. A STAINLESS STEEL SCREEN SHALL BE INSTALLED TO SEAL THE OPENING BELOW THE POLE BASE FROM RODENT ENTRY. THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "LIGHT POLE FOUNDATION".

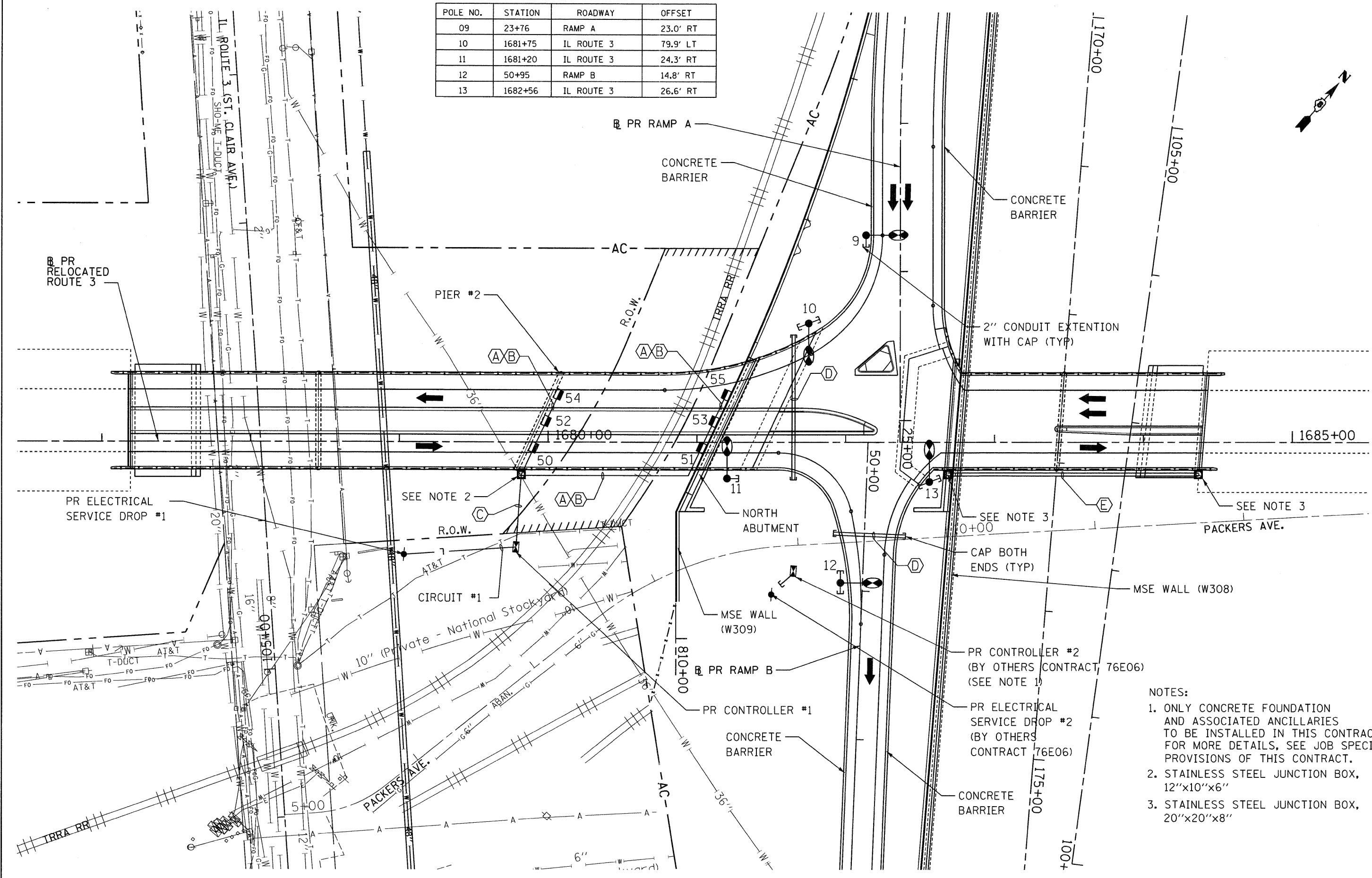
LEGEND

-  PROPOSED ELECTRIC SERVICE INSTALLATION
-  PROPOSED LIGHTING CONTROLLER
-  PROPOSED CONDUIT ATTACHED TO STRUCTURE, 1" DIA., GALV STEEL
-  PROPOSED ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 3-1/C NO.8
-  PROPOSED ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE USE), 3-1/C NO.8
-  PROPOSED CONDUIT IN TRENCH, 2 1/2" DIA., PVC
-  PROPOSED CONDUIT EMBEDDED IN STRUCTURE, 2 - 2" DIA., PVC
-  PROPOSED JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE OF TYPE/SIZE SPECIFIED
-  UNDERPASS LUMINAIRE, 100 WATT, HIGH PRESSURE SODIUM VAPOR, 240 VOLT
-  LIGHT POLE, ALUMINUM POLE BASE MOUNTED, 45 FT. M.H., 15 FT. MAST ARM, LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 250 WATT AND 15" BOLT CIRCLE (INSTALL CONCRETE FOUNDATION ONLY IN THIS CONTRACT)

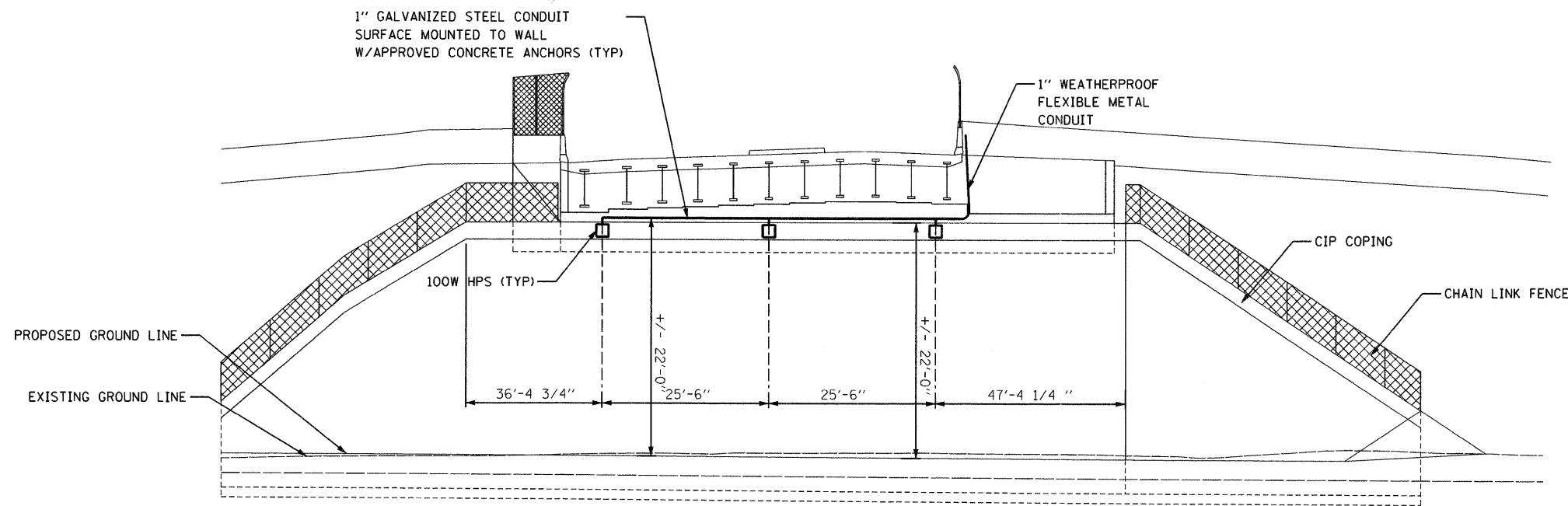
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 *****user*****

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ABNA ENGINEERING INC. PROFESSIONAL ENGINEERS EAST ST. LOUIS, ILLINOIS 				SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.		CONTRACT NO. 76D05 ILLINOIS FED. AID PROJECT				

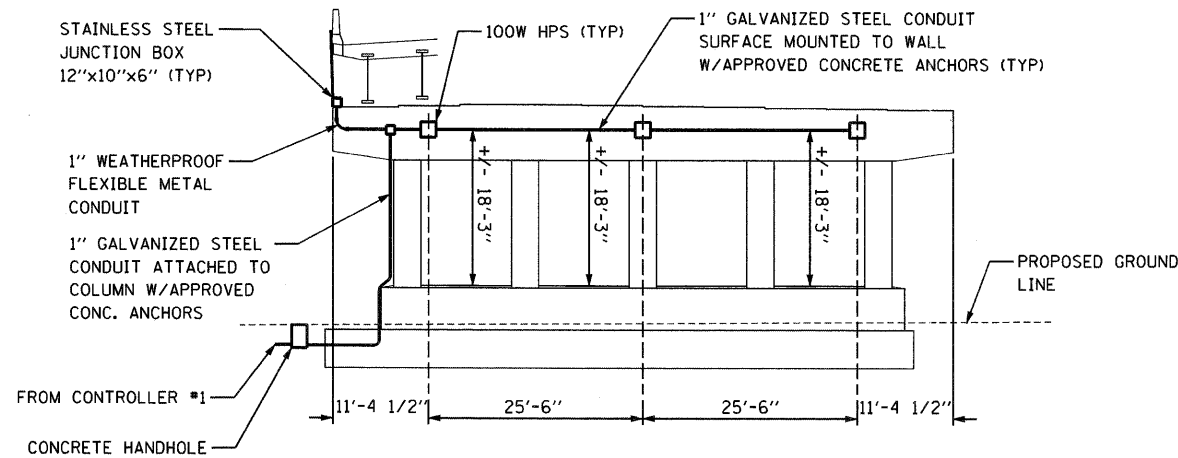
POLE NO.	STATION	ROADWAY	OFFSET
09	23+76	RAMP A	23.0' RT
10	1681+75	IL ROUTE 3	79.9' LT
11	1681+20	IL ROUTE 3	24.3' RT
12	50+95	RAMP B	14.8' RT
13	1682+56	IL ROUTE 3	26.6' RT



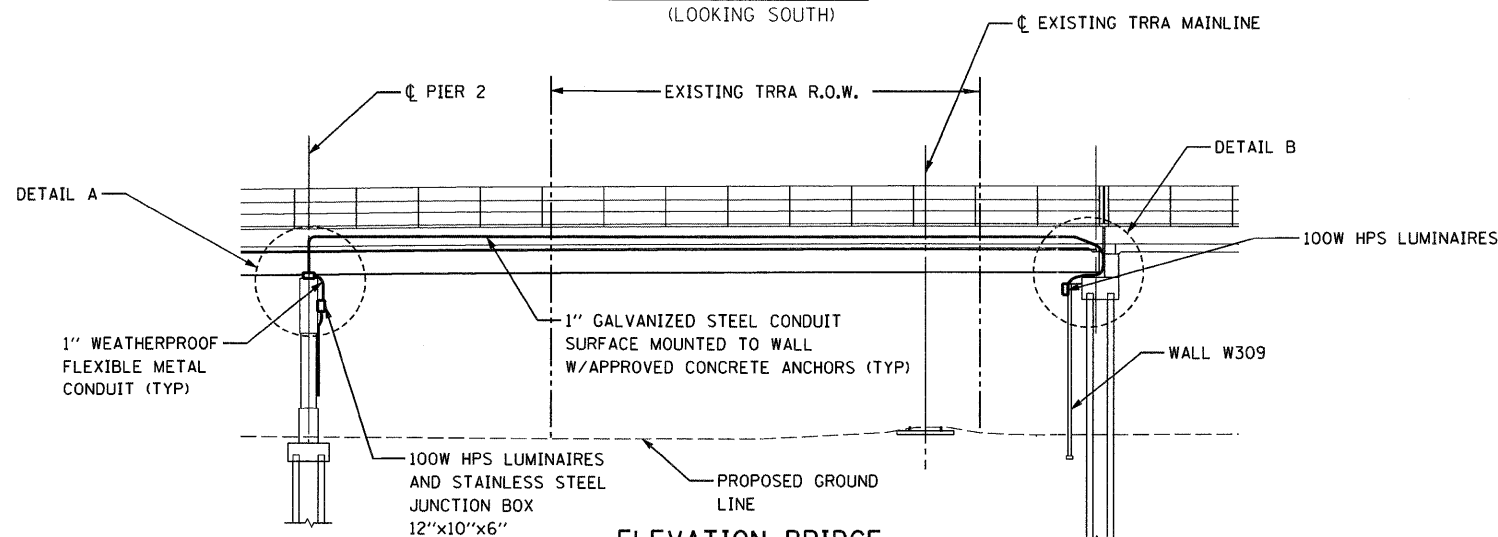
- NOTES:
1. ONLY CONCRETE FOUNDATION AND ASSOCIATED ANCILLARIES TO BE INSTALLED IN THIS CONTRACT. FOR MORE DETAILS, SEE JOB SPECIAL PROVISIONS OF THIS CONTRACT.
 2. STAINLESS STEEL JUNCTION BOX, 12"x10"x6"
 3. STAINLESS STEEL JUNCTION BOX, 20"x20"x8"



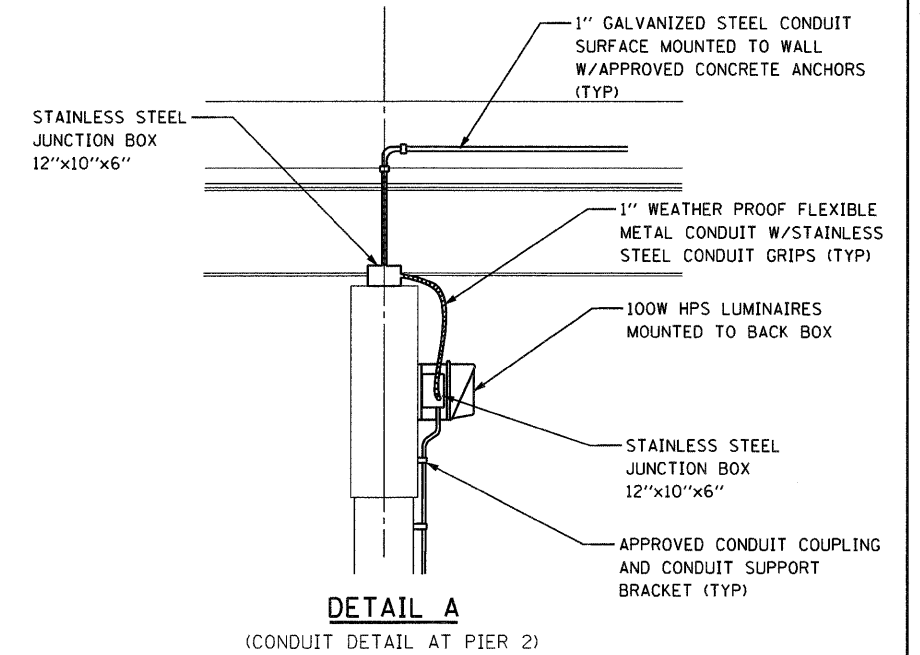
ELEVATION MSE WALL
(LOOKING NORTH)



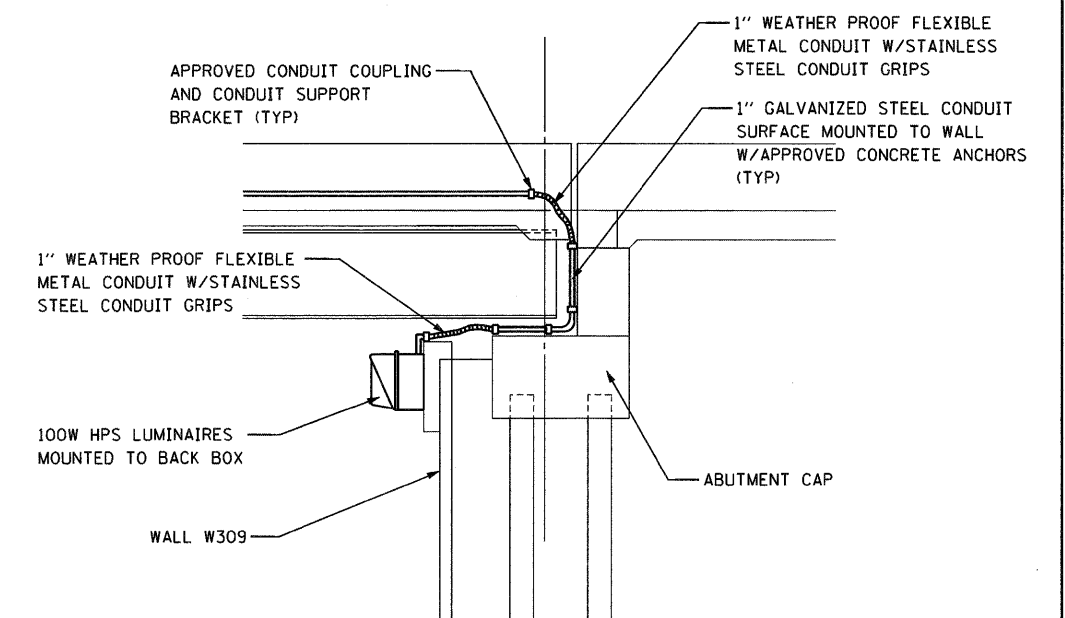
ELEVATION PIER 2
(LOOKING SOUTH)



ELEVATION BRIDGE
(LOOKING WEST)

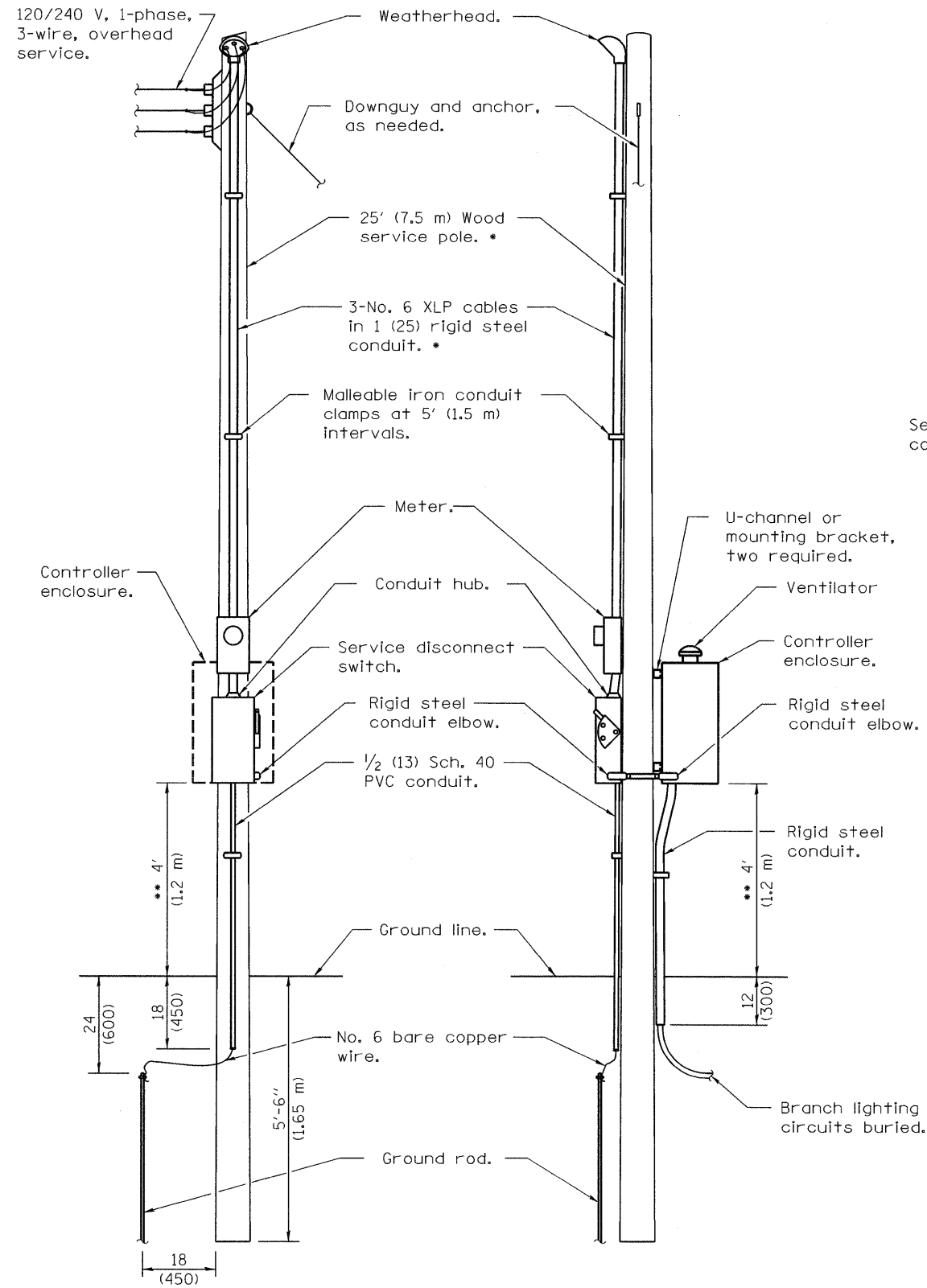


DETAIL A
(CONDUIT DETAIL AT PIER 2)

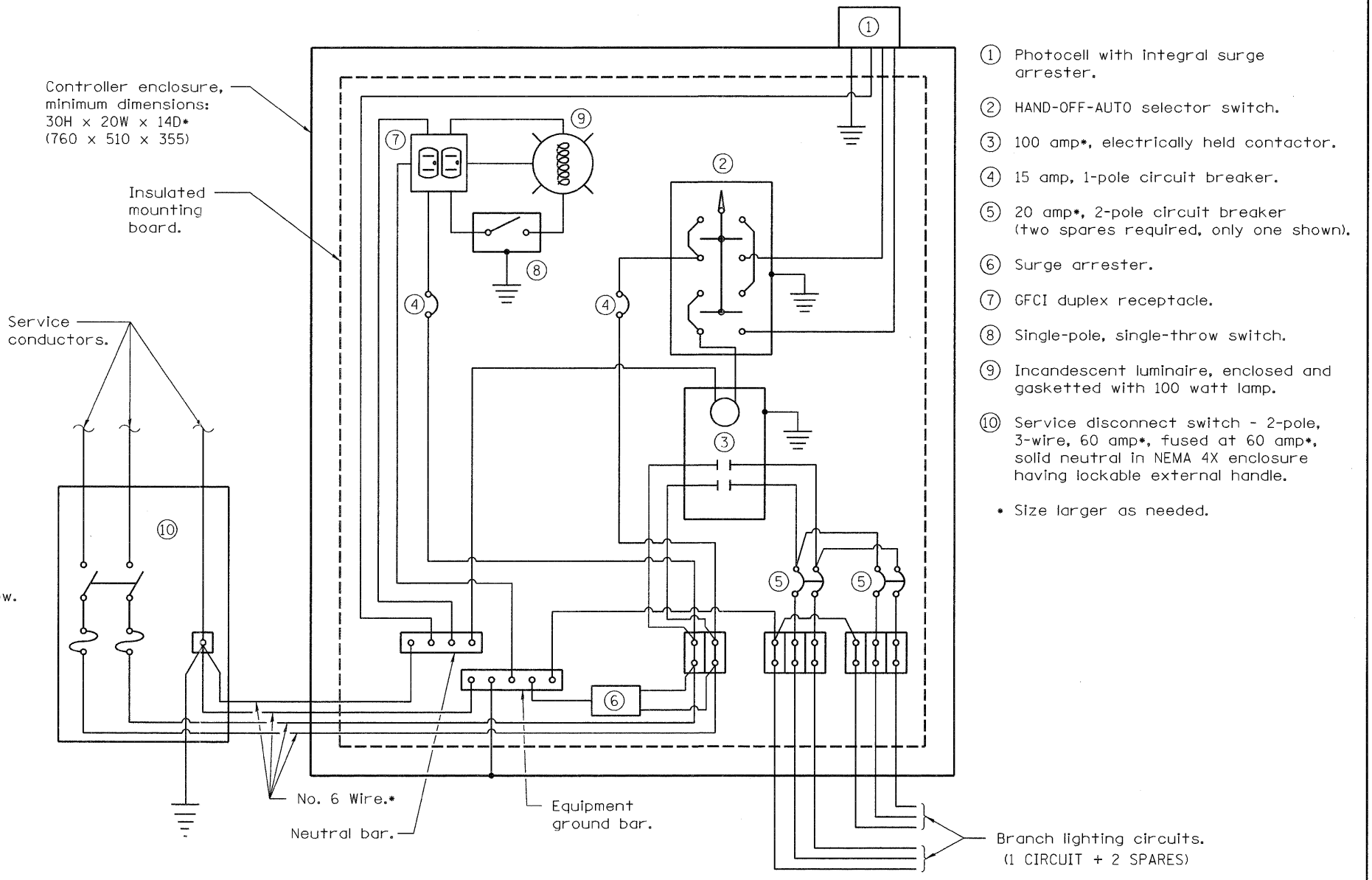


DETAIL B
(CONDUIT DETAIL AT MSE WALL)

FILE NAME =	USER NAME = #USER#	DESIGNED - FSM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION RELOCATED ILLINOIS ROUTE 3	LIGHTING DETAILS		F.A.P. RTE. 998	SECTION 82-2-IHVB-1	COUNTY ST. CLAIR	TOTAL SHEETS 345	SHEET NO. 117	
#FILEL#		DRAWN - MNR	REVISED -		SCALE: 1" = 10'	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 76D05		
ABNA ENGINEERING INC. PROFESSIONAL ENGINEERS EAST ST. LOUIS, ILLINOIS	ABNA engineering	CHECKED - AAB	REVISED -									
		DATE - 5/13/11	REVISED -									



FRONT SIDE
120/240 V ELECTRIC SERVICE INSTALLATION #1
 * Size larger as needed.
 ** Or as directed by Utility Company.



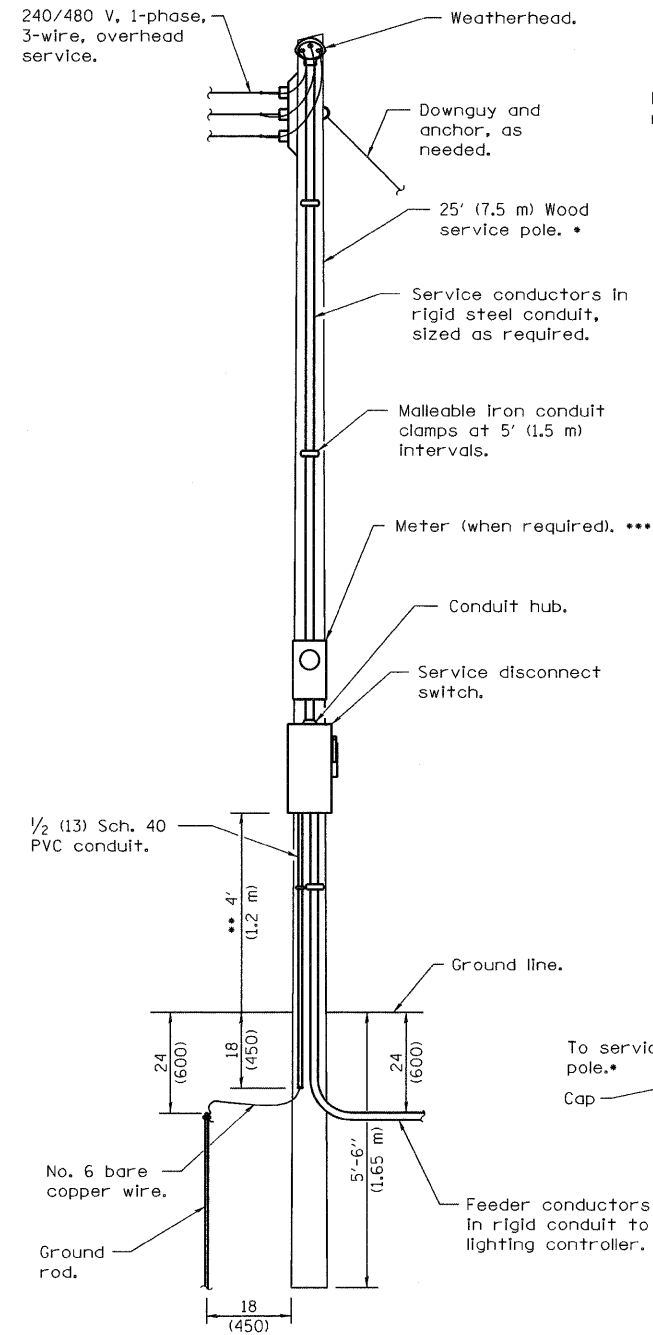
CONTROL SCHEMATIC

CONTROLLER #1

- ① Photocell with integral surge arrester.
 - ② HAND-OFF-AUTO selector switch.
 - ③ 100 amp*, electrically held contactor.
 - ④ 15 amp, 1-pole circuit breaker.
 - ⑤ 20 amp*, 2-pole circuit breaker (two spares required, only one shown).
 - ⑥ Surge arrester.
 - ⑦ GFCI duplex receptacle.
 - ⑧ Single-pole, single-throw switch.
 - ⑨ Incandescent luminaire, enclosed and gasketed with 100 watt lamp.
 - ⑩ Service disconnect switch - 2-pole, 3-wire, 60 amp*, fused at 60 amp*, solid neutral in NEMA 4X enclosure having lockable external handle.
- * Size larger as needed.

 FILE NAME =
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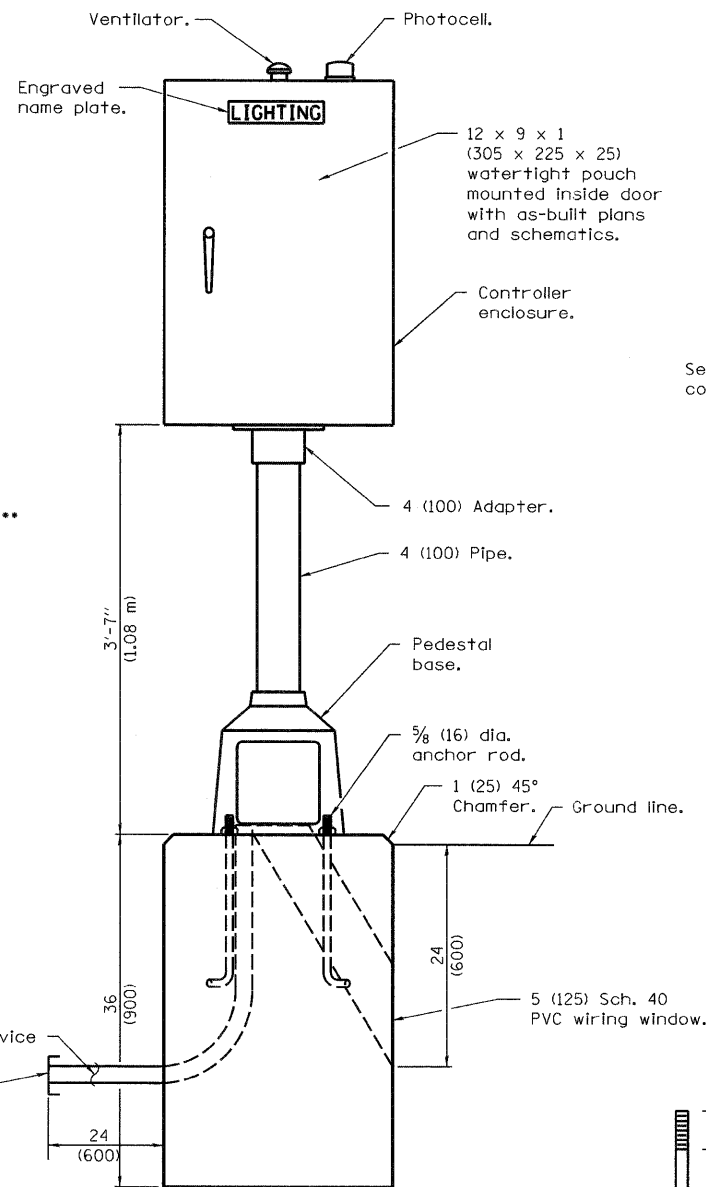
ABNA ENGINEERING INC. PROFESSIONAL ENGINEERS EAST ST. LOUIS, ILLINOIS	USER NAME = #USER#	DESIGNED - FSM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION RELOCATED ILLINOIS ROUTE 3	CONTROL INSTALLATION		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	DRAWN - MNR	REVISED -				998	82-2-IHVB-1	ST. CLAIR	345	119
	PLOT DATE = #DATE#	CHECKED - AAB	REVISED -		SCALE:		SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 76D05	
		DATE - 5/13/11	REVISED -						FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT



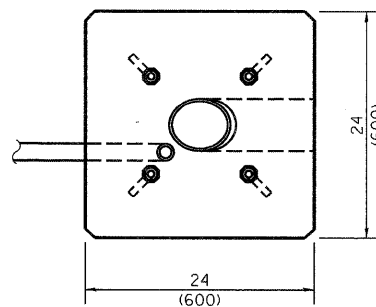
240/480 V ELECTRIC SERVICE INSTALLATION #2

- Size larger as needed.
- ** Or as directed by Utility Company.
- *** When cold sequencing is required, provide a meter disconnect switch as directed by Utility Company.

NIC



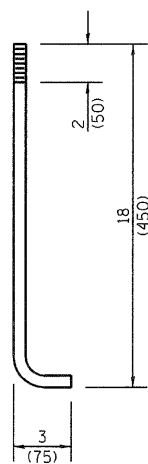
LIGHTING CONTROLLER



FOUNDATION (PLAN)

(Work pad not shown.)

• Controller #2 foundation shall have the power supply conduit installed and capped 2' from foundation for future use.



ANCHOR ROD DETAIL



CONTROL SCHEMATIC

- ① Photocell with integral surge arrester.
- ② HAND-OFF-AUTO selector switch.
- ③ 100 amp*, electrically held contactor.
- ④ 15 amp, 1-pole circuit breaker.
- ⑤ 20 amp*, 2-pole circuit breaker (one additional and two spares required but not shown).
- ⑥ Surge arrester.
- ⑦ GFCI duplex receptacle.
- ⑧ Single-pole, single-throw switch.
- ⑨ Incandescent luminaire, enclosed and gasketed with 100 watt lamp.
- ⑩ Service disconnect switch - 2-pole, 3-wire, 60 amp*, fused at 60 amp*, solid neutral in NEMA 4X enclosure having lockable external handle.
- ⑪ Transformer - 1KVA*, 480V primary, 120/240V secondary, single-phase, 60Hz.
- ⑫ 15 amp, 2-pole circuit breaker.
- ⑬ 60 amp*, 2-pole circuit breaker.

• Size larger as needed.

All dimensions are in inches (millimeters) unless otherwise shown.

CONTROLLER #2

(Install concrete foundation only in this contract)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
RELOCATED ILLINOIS ROUTE 3

CONTROL INSTALLATION

FILE NAME =
#FILE#

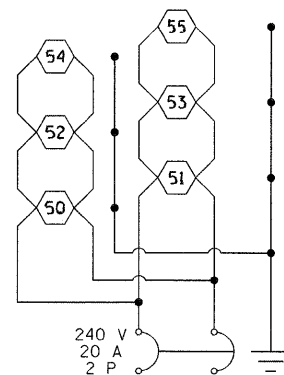


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DRAWN - MNR
CHECKED - AAB
PLOT SCALE = #SCALE#
PLOT DATE = #DATE#

REVISED -
REVISED -
REVISED -
DATE - 5/13/11
REVISED -

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	120
CONTRACT NO. 76D05				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



CIRCUIT 1

CONTROLLER #1 WIRING DIAGRAM

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE
I-70 IL RELOCATED RTE 3 INTERCHANGE TRRA UNDERPASS LUMINAIRES

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width (Main Rail Line)	8 FT
	Number of Lanes	1
	Median Width	N/A
	IES Surface Classification (Calculated Ref)	R3
LIGHT POLE DATA:	0-Zero Value	0.07
	Mounting Height	23.67 FT
	Pole Set-Back from Edge of Pavement	N/A
	Aiming Angle	N/A
LUMINAIRE DATA:	Arm Length	N/A
	Lamp Type	HPS
	Lamp Lumens	9500
	IES Vertical Distribution	S
	IES Control Distribution	NC
LAYOUT DATA:	IES Lateral Distribution	4 (IV)
	Total Light Loss Factor	0.7
LAYOUT DATA:	Spacing	25.5 FT
	Configuration	2R_OPP
	Luminaire Overhang Over Edge of Pavement Lane	N/A

NOTE: Variations from the above specified IES distribution pattern may be requested and accepted of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, (E _{Ave})	1.0 FC
	Uniformity Ratio, (E _{Ave} /E _{Min})	3.0
LUMINANCE: (Target Values but not Specified)	Average Luminance: (L _{Ave})	0.6
	Uniformity Ratios: (L _{Ave} /L _{Min})	3.5
	(L _{Max} /L _{Min})	6.0
LUMINANCE:	Maximum Veiling Luminance Ratio: (L _v /L _{Ave})	0.3

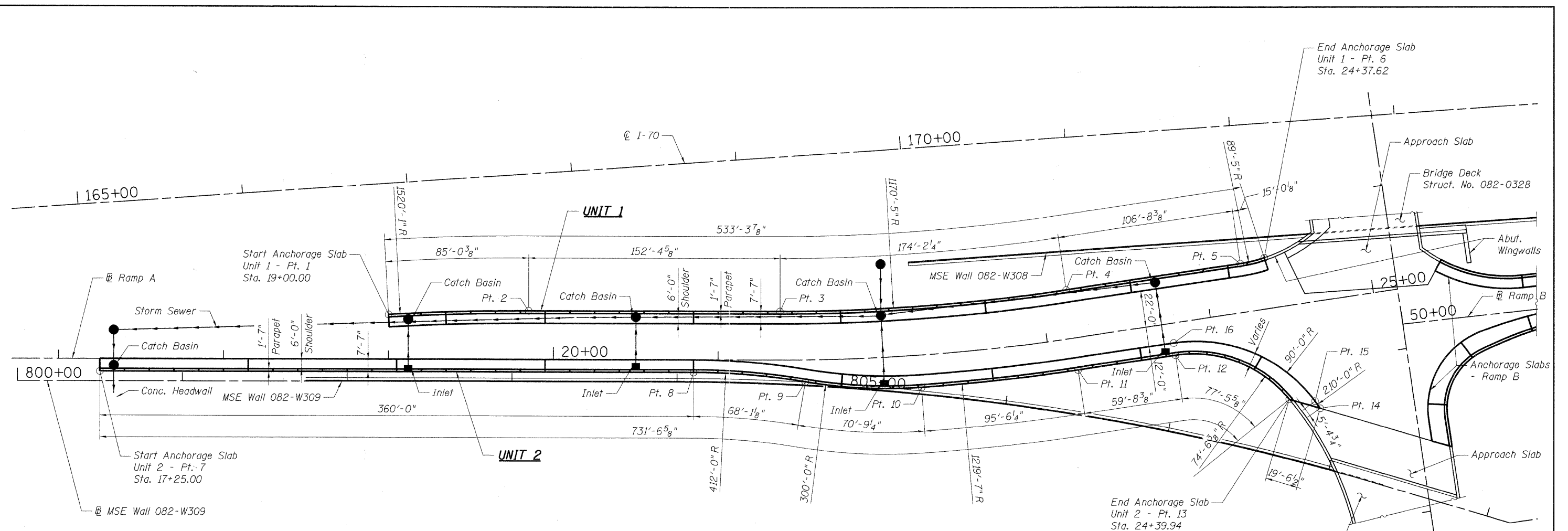
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
RELOCATED ILLINOIS ROUTE 3

CONTROLLER WIRING DIAGRAM / LUMINAIRE PERFORMANCE TABLE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	121
CONTRACT NO. 76D05				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FILE NAME =	USER NAME = #USER#	DESIGNED - FSM	REVISED -
*FILEL#		DRAWN - MNR	REVISED -
ABNA ENGINEERING INC. PROFESSIONAL ENGINEERS EAST ST. LOUIS, ILLINOIS		CHECKED - AAB	REVISED -
		DATE - 5/13/11	REVISED -

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



ANCHORAGE SLAB PLAN - RAMP A

Work Points

Pt.	Station (Ramp A)	Offset (')	Unit
1	19+00.00	27.21 LT.	1
2	19+85.00	29.58 LT.	1
3	21+37.39	29.58 LT.	1
4	23+15.98	29.58 LT.	1
5	24+22.68	29.58 LT.	1
6	24+37.62	30.84 LT.	1
7	17+25.00	7.58 RT.	2
8	20+85.00	7.58 RT.	2
9	21+52.62	13.30 RT.	2
10	22+22.00	19.58 RT.	2
11	23+15.98	19.58 RT.	2
12	23+75.68	19.58 RT.	2
13	24+39.94	56.35 RT.	2
14	24+57.65	64.61 RT.	2
15	24+55.18	59.81 RT.	2
16	23+75.68	12.00 RT.	2

INDEX OF SHEETS

122	ANCHORAGE SLAB - RAMP A, GENERAL PLAN
123	ANCHORAGE SLAB - RAMP B, GENERAL PLAN
124	PLAN & ELEVATION - UNIT 1, 1 OF 2
125	PLAN & ELEVATION - UNIT 1, 2 OF 2
126	PLAN & ELEVATION - UNIT 2, 1 OF 3
127	PLAN & ELEVATION - UNIT 2, 2 OF 3
128	PLAN & ELEVATION - UNIT 2, 3 OF 3
129	PLAN & ELEVATION - UNIT 3, 1 OF 3
130	PLAN & ELEVATION - UNIT 3, 2 OF 3
131	PLAN & ELEVATION - UNIT 3, 3 OF 3
132	PLAN & ELEVATION - UNIT 4, 1 OF 2
133	PLAN & ELEVATION - UNIT 4, 2 OF 2
134	ANCHORAGE SLAB DETAILS, 1 OF 2
135	ANCHORAGE SLAB DETAILS, 2 OF 2

DESIGN SPECIFICATIONS
2010 AASHTO LRFD Bridge Design Specifications
with 2010 Interims

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

LOADING HL-93



Byron T. Danley
BYRON T. DANLEY

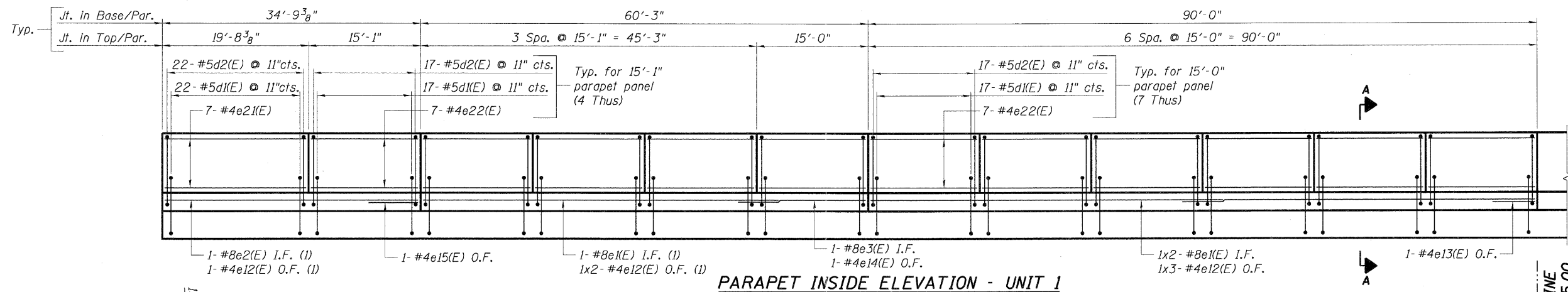
EXPIRES: 11/30/12
DATE: 5/5/11
FOR SHEETS: 122 through 135

General Notes:

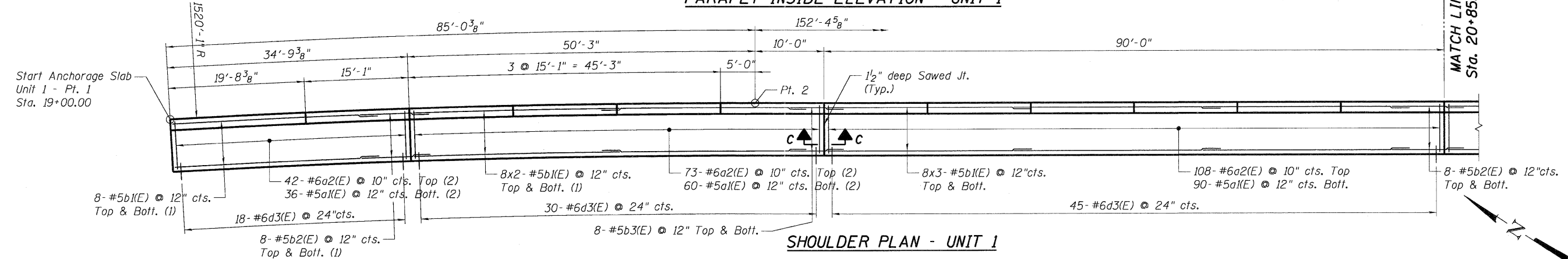
- Dimensions measured along outside face of parapet.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60. See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- For locations of Catch Basins & Inlets, see Drainage Plans.

FILE NAME = \\BONDHULL01\5-25-2011_1434402... \NF5-00414\ANAVALL\T-D-TRANS\072202\20868-001\STRUCT\CAD\01 DESIGN\WORKSHEETS\AS\ASHEET\08DINN-10-SHT-PLAN\LDON

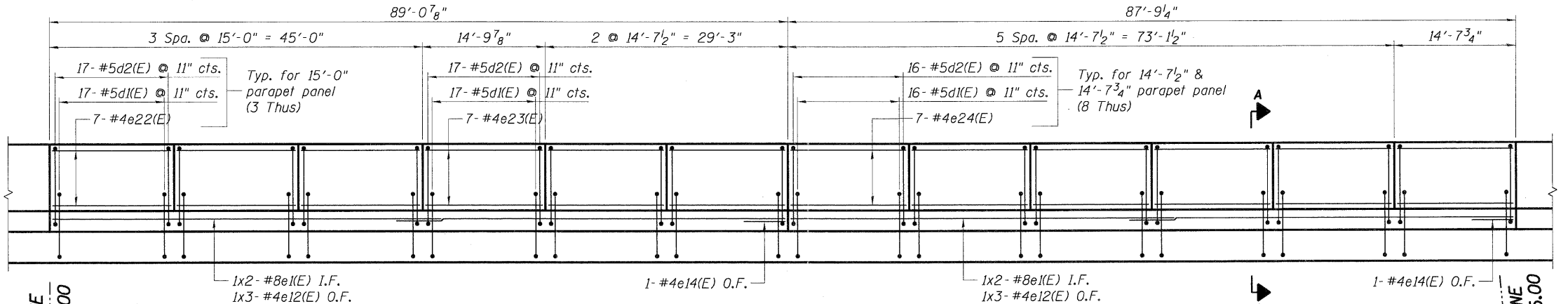
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#FILEL#	PLOT SCALE = #SCALE#	DRAWN - HBJ	REVISED -			SCALE:	SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	CONTRACT NO. 76D05			
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = #DATE#	CHECKED - JRH	REVISED -									
		DATE - 05/13/11	REVISED -									



PARAPET INSIDE ELEVATION - UNIT 1



SHOULDER PLAN - UNIT 1



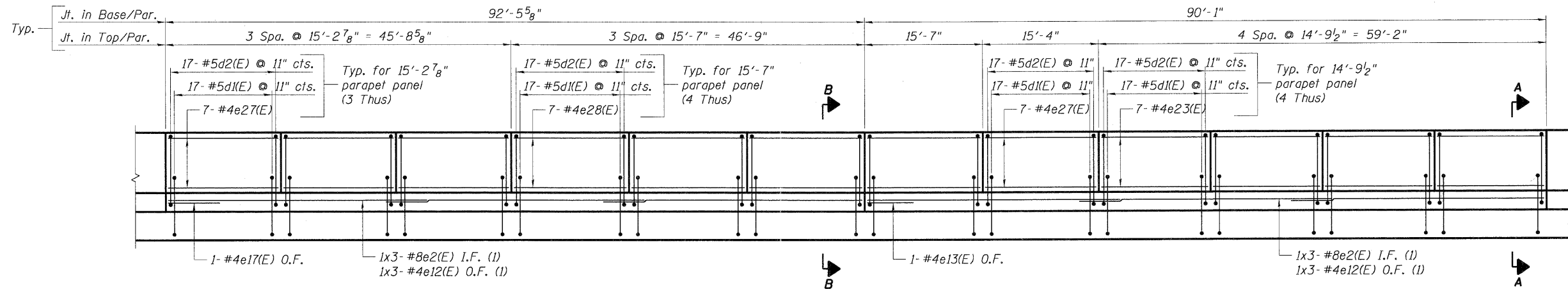
SHOULDER PLAN - UNIT 1

Note:
For Notes, see Sht. 125.

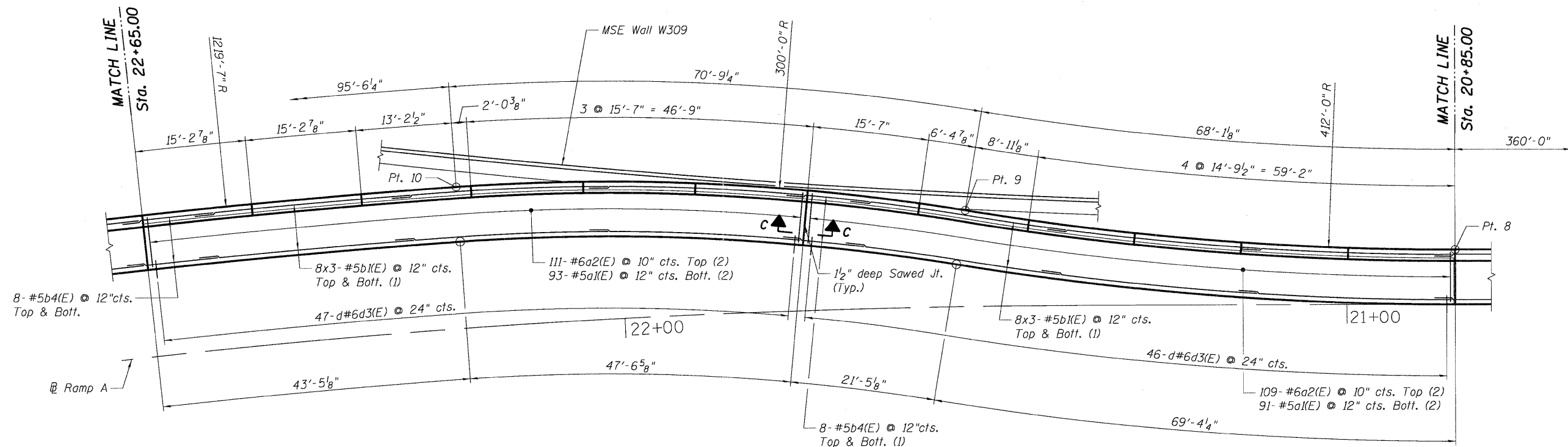
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FILE NAME = USER NAME = JLR				DESIGNED - JLR DRAWN - HBJ CHECKED - JRH DATE - 05/13/11				STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION RELOCATED ILLINOIS ROUTE 3				PLAN & ELEVATION - UNIT 1 1 OF 2				F.A.P. RTE. 998 SECTION 82-2-1HVB-1 COUNTY ST. CLAIR TOTAL SHEETS 345 SHEET NO. 124 CONTRACT NO. 76D05	
PLOT SCALE = PLOT DATE =														FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			





PARAPET INSIDE ELEVATION - UNIT 2

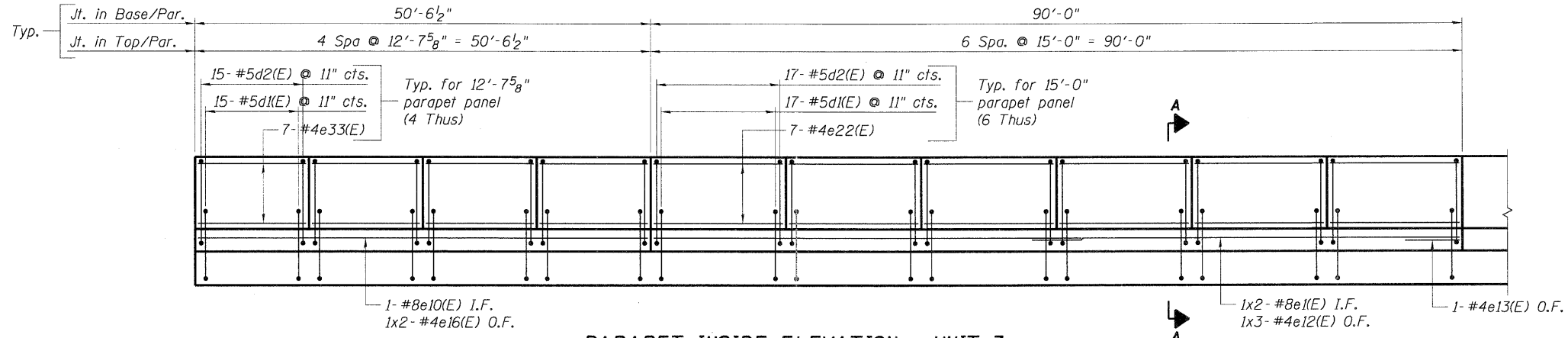


SHOULDER PLAN - UNIT 2

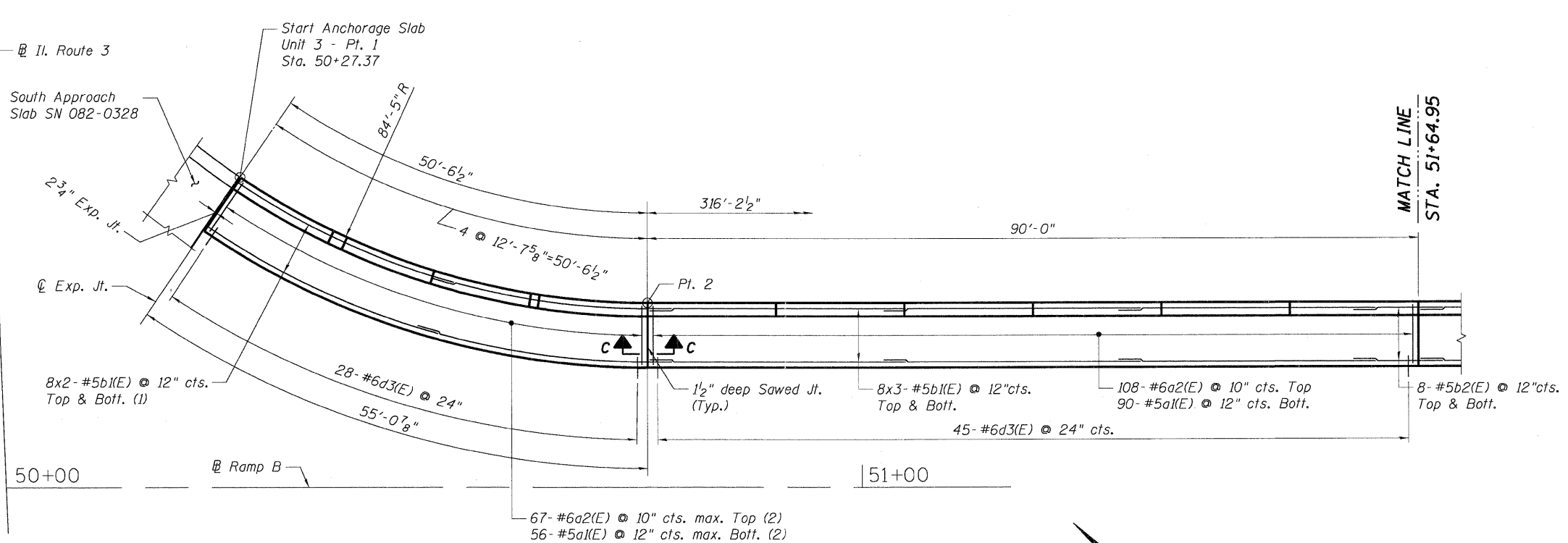
Note:
For Notes, see Sht. 125.

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 TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS
 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION RELOCATED ILLINOIS ROUTE 3
 PLAN & ELEVATION - UNIT 2 2 OF 3
 SCALE: SHEET NO. OF SHEETS STA. TO STA.
 F.A.P. RTE. 998 SECTION 82-2-IHVB-1 COUNTY ST. CLAIR TOTAL SHEETS 345 SHEET NO. 127 CONTRACT NO. 76D05
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

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	PILOT DATE = #DATE#	CHECKED - JRH	REVISED -							ILLINOIS FED. AID PROJECT		
		DATE - 05/13/11	REVISED -									



PARAPET INSIDE ELEVATION - UNIT 3



SHOULDER PLAN - UNIT 3

Notes:
For Notes, see Sht. 125.

D:\PROJECTS\88-115\88-115-1\DESIGN\UNIT 3\UNIT 3 - PLAN.dwg, V:\PROJECTS\88-115\88-115-1\DESIGN\UNIT 3\UNIT 3 - PLAN.dwg, V:\PROJECTS\88-115\88-115-1\DESIGN\UNIT 3\UNIT 3 - PLAN.dwg, V:\PROJECTS\88-115\88-115-1\DESIGN\UNIT 3\UNIT 3 - PLAN.dwg

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DRAWN - HBJ

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DATE - 05/13/11

REVISER -

REVISER -

REVISER -

REVISER -

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PLOT DATE = #DATE#

DESIGNED - JLR

DRAWN - HBJ

CHECKED - JRH

DATE - 05/13/11

REVISER -

REVISER -

REVISER -

REVISER -

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PLOT DATE = #DATE#

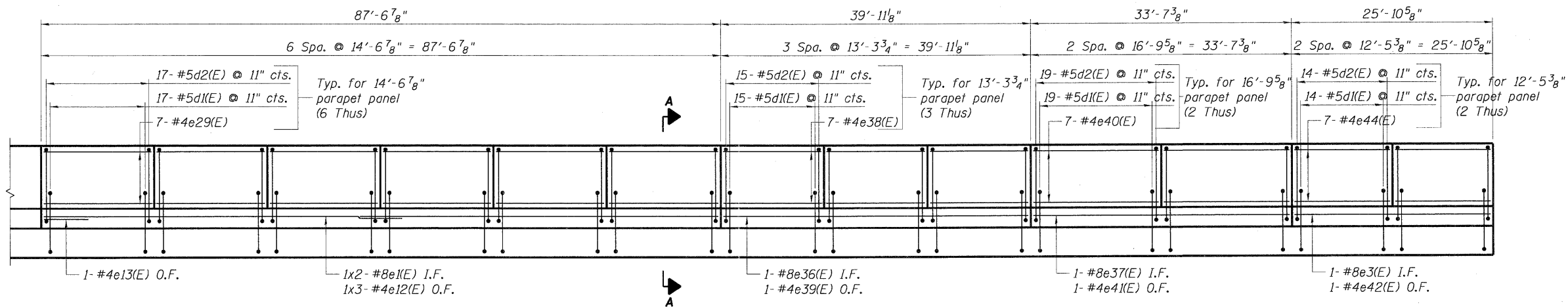
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
RELOCATED ILLINOIS ROUTE 3

PLAN & ELEVATION - UNIT 3
1 OF 3

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	129
CONTRACT NO. 76D05				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

TENG TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS



PARAPET INSIDE ELEVATION - UNIT 4

REINFORCEMENT TABLE

Mark	Reinforcement	Note
L	9x3-#5b1(E) @ 12" cts. Top & Bott.	(1)
M	2-#5b1(E) @ 12" cts. Top & Bott.	(1) Flare
N	3-#5b1(E) @ 12" cts. Top & Bott.	(1) Flare
O	12-#5b1(E) @ 12" cts. Top & Bott.	(1)
P	12-#5b10(E) @ 12" cts. Top & Bott.	(1) (3)
Q	7-#6a18(E) @ 10" cts. Top 6-#5a17(E) @ 12" cts. Bott.	
R	4-#5b1(E) @ 12" cts. Top & Bott.	(1) Flare

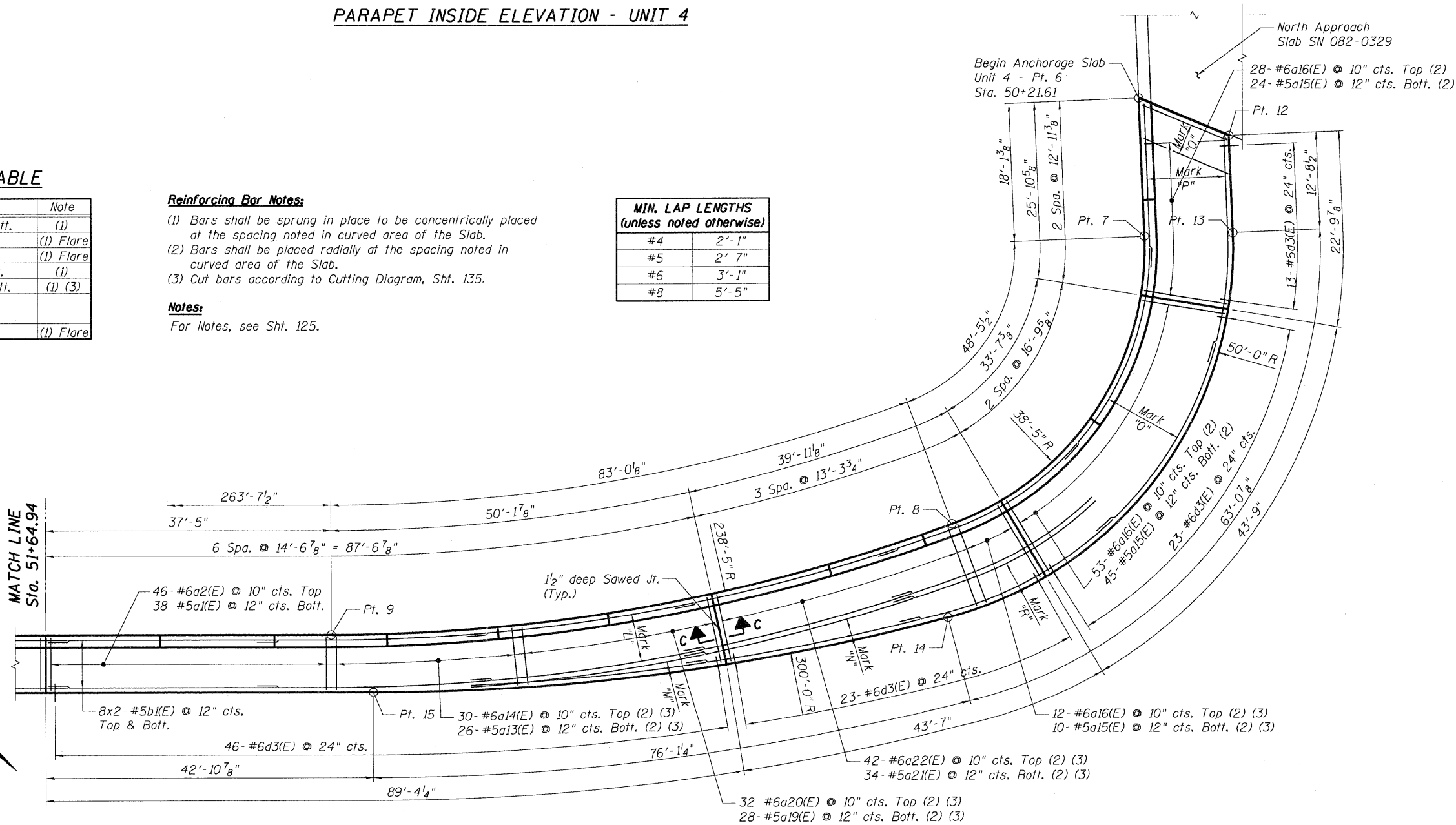
Reinforcing Bar Notes:

- (1) Bars shall be sprung in place to be concentrically placed at the spacing noted in curved area of the Slab.
- (2) Bars shall be placed radially at the spacing noted in curved area of the Slab.
- (3) Cut bars according to Cutting Diagram, Sht. 135.

Notes:

For Notes, see Sht. 125.

MIN. LAP LENGTHS (unless noted otherwise)	
#4	2'-1"
#5	2'-7"
#6	3'-1"
#8	5'-5"



SHOULDER PLAN - UNIT 4

...:\DRC\CONV-10-DESIGN-10-10-2011\DESIGN\UNIT 4-10-10-2011\DRAWINGS\0822.DWG
 FILE NAME = 0822.DWG
 USER NAME = USER*
 DESIGNED - TCG
 DRAWN - TCG
 CHECKED - JLR
 DATE - 05/13/11
 REVISIONS -
 REVISIONS -
 REVISIONS -
 REVISIONS -

BENCHMARK:
 Monument No. 8: Aluminum disk set in the south end of a headwall to a box culvert under Illinois Route 3, 0.7 miles south of Canal Street, 0.1 miles south of Industrial Drive and north of single railroad track. El. 401.95

EXISTING STRUCTURE:
 None

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications, 5th Edition

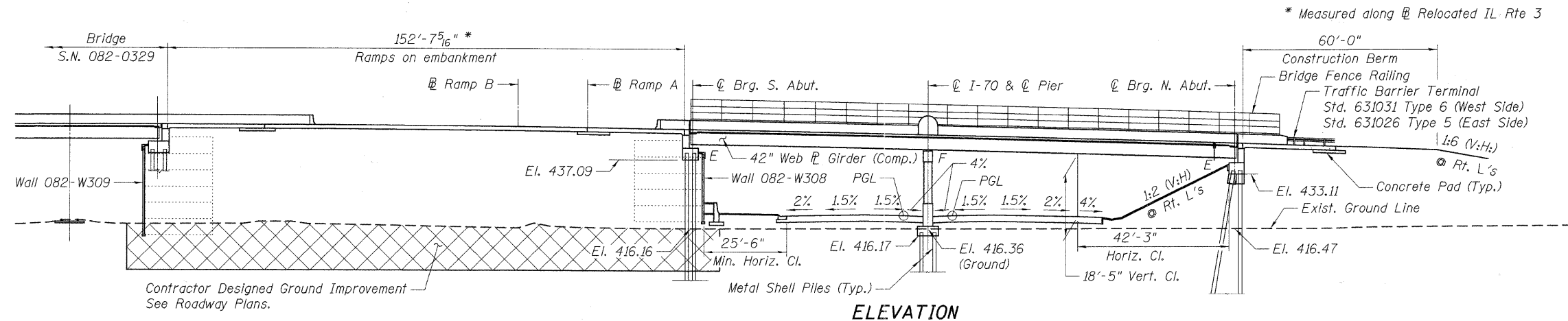
DESIGN STRESSES

FIELD UNITS

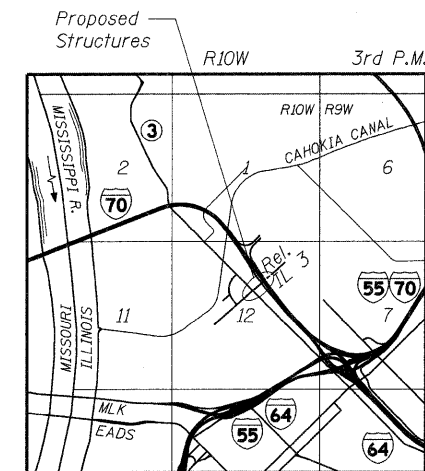
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50, Primary Members)
 $f_y = 36,000$ psi (M270 Grade 36, Secondary Members)

LOADING HL-93

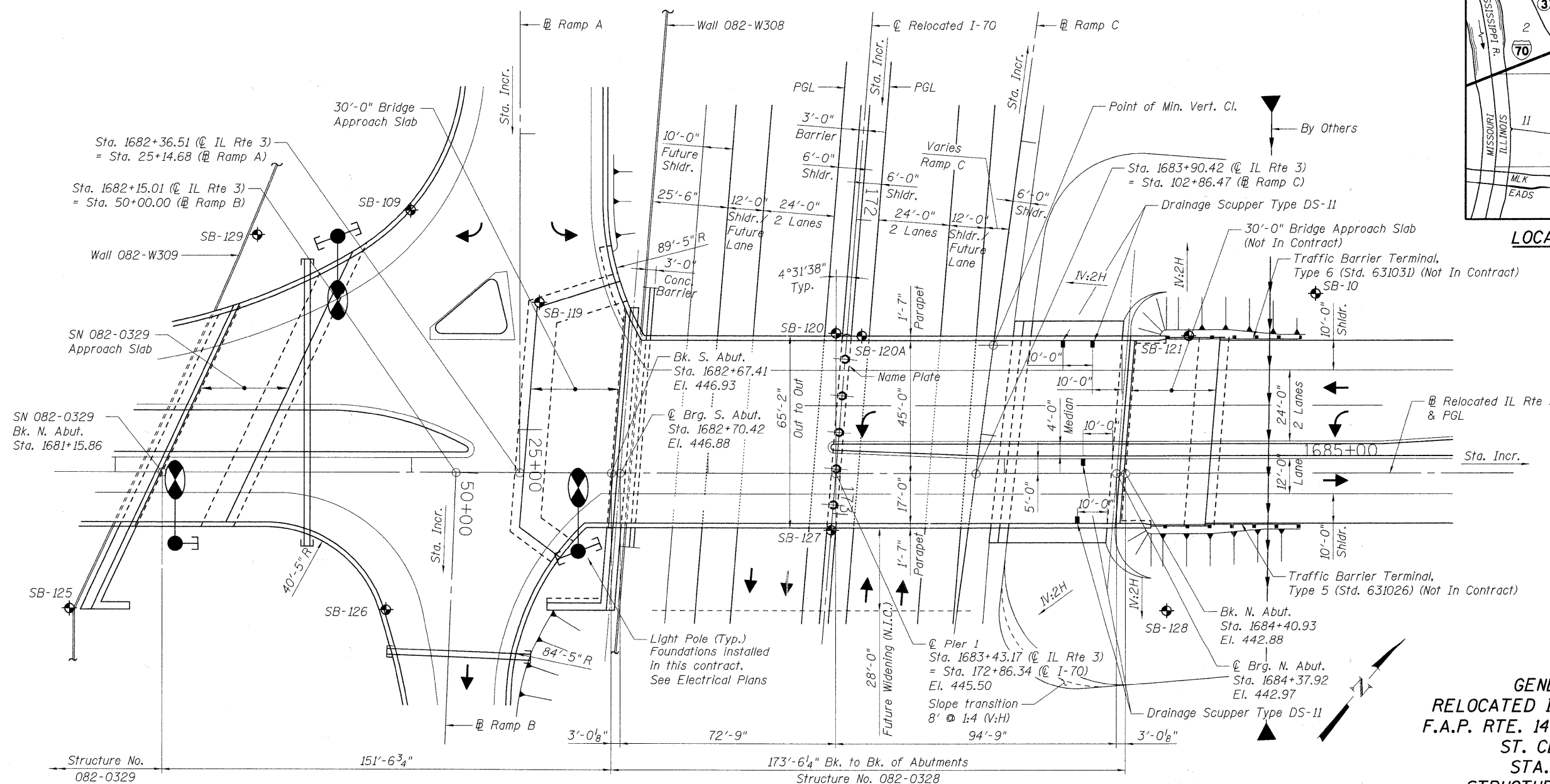
Allow 50#/sq. ft. for future wearing surface.



ELEVATION

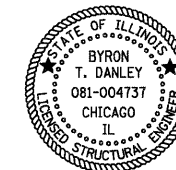


LOCATION SKETCH



PLAN

GENERAL PLAN
 RELOCATED IL RTE 3 OVER I-70
 F.A.P. RTE. 14 SEC. 82-2-1HVB-1
 ST. CLAIR COUNTY
 STA. 1683+43.17
 STRUCTURE NO. 082-0328

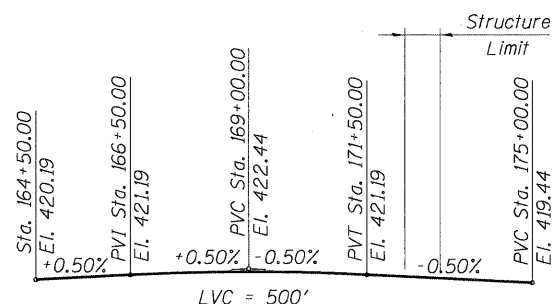


BYRON T. DANLEY

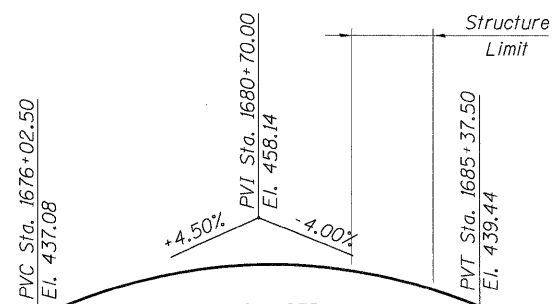
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DATE: 6/27/11

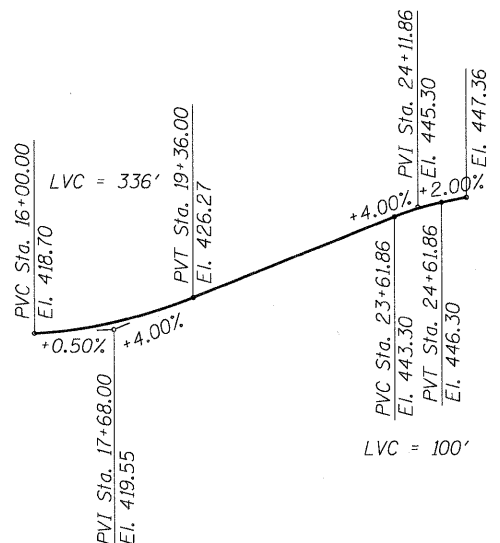
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#FILE#	PLOT SCALE = #SCALE#	DRAWN - JLR	REVISED -		998	82-2-1HVB-1	ST. CLAIR	345	136		
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = #DATE#	CHECKED - JRH	REVISED -		SCALE: SHEET NO. SA-1 OF SA-57 STA. 1683+43.17 TO STA.		SN 082-0328		CONTRACT NO. 76D05		
		DATE - 05/13/11	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT						



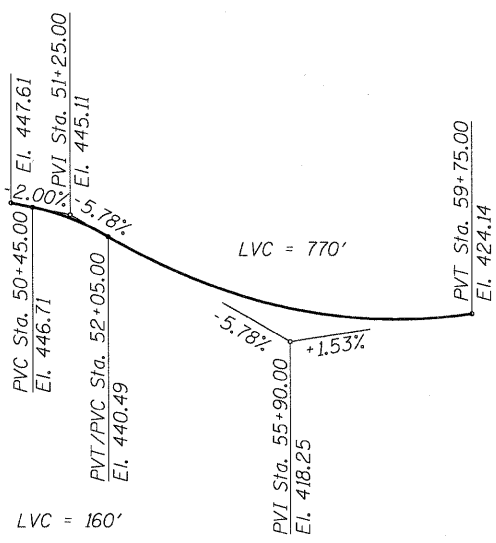
**PROFILE GRADE F.A.P. RTE 998
(RELOCATED I-70)**



PROFILE GRADE ~~IL-3~~ RELOCATED IL-3



PROFILE GRADE ~~IL-3~~ RAMP A



PROFILE GRADE ~~IL-3~~ RAMP B

CURVE RAMPA-1

P.I. = Sta. 22+26.85
Δ = 8°31'38" (LT)
D = 4°46'29"
R = 1,200.00'
L = 178.60'
T = 89.46'
E = 3.33'
P.C. = Sta. 21+37.39
P.T. = Sta. 23+15.98

CURVE RAMPB-1

P.I. = Sta. 54+64.50
Δ = 1°24'03" (LT)
D = 0°57'18"
R = 6,000.00'
L = 146.70'
T = 73.35'
E = 0.45'
P.C. = Sta. 53+91.15
P.T. = Sta. 55+37.85

CURVE RAMPB-2

P.I. = Sta. 64+42.05
Δ = 5°06'17" (LT)
D = 1°15'51"
R = 4,532.00'
L = 403.77'
T = 202.02'
E = 4.50'
P.C. = Sta. 62+40.04
P.T. = Sta. 66+43.82

SEISMIC DATA*

Soil Site Class = D

Return Period, Tr [yrs]	1000
Design Spectral Accel. at 1.0 sec, SD1 [g]	0.20
Design Spectral Accel. at 0.2 sec, SDS [g]	0.39
Importance Category	Essential
Seismic Performance Zone	2

* Seismic Data based on site-specific analysis.

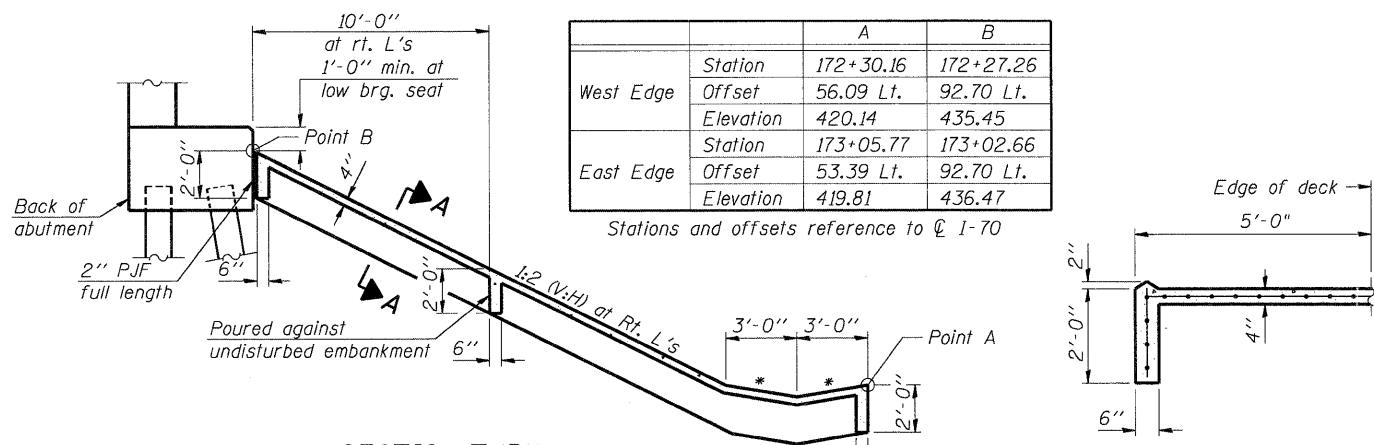
STATION 1683+43.17
BUILT 2011 BY
STATE OF ILLINOIS
F.A.P. RTE. 14 SEC. 82-2-IHVB-1
LOADING HL-93
STRUCTURE NO. 082-0328

NAME PLATE

See Std. 515001

	A	B
West Edge	Station	172+30.16
	Offset	56.09 Lt.
	Elevation	420.14
East Edge	Station	173+05.77
	Offset	53.39 Lt.
	Elevation	419.81

Stations and offsets reference to CL I-70



**SECTION THRU
NORTH SLOPEWALL**

SECTION A-A

INDEX OF SHEETS

- SA-1 General Plan
- SA-2 General Data
- SA-3 Foundation Layout
- SA-4 Top of Slab Elevations, 1 of 3
- SA-5 Top of Slab Elevations, 2 of 3
- SA-6 Top of Slab Elevations, 3 of 3
- SA-7 Top of Approach Slab Elevations
- SA-8 Deck Plan
- SA-9 Deck Cross Sections, 1 of 2
- SA-10 Deck Cross Sections, 2 of 2
- SA-11 Median Details
- SA-12 Parapet Elevations
- SA-13 Parapet Details
- SA-14 Deck Details & Bar List
- SA-15 South Approach Slab Plan
- SA-16 Bridge Approach Slab Details
- SA-17 Expansion Joint Details
- SA-18 Framing Plan
- SA-19 Girder Elevation
- SA-20 Steel Details
- SA-21 Bearing Details
- SA-22 South Abutment, Plan & Pile Layout
- SA-23 South Abutment, Elevation & Sections
- SA-24 South Abutment, East Wingwall & Details
- SA-25 South Abutment, West Wingwall & Details
- SA-26 Pier 1, Plan & Elevation
- SA-27 Pier 1, Sections & Details
- SA-28 North Abutment, Plan & Pile Layout
- SA-29 North Abutment, Elevation & Section
- SA-30 North Abutment, East Wingwall & Details
- SA-31 North Abutment, West Wingwall & Details
- SA-32 Bar Splicer Details
- SA-33 Drainage Scupper, DS-11
- SA-34 Bridge Fence Railing Details, 1 of 2
- SA-35 Bridge Fence Railing Details, 2 of 2
- SA-36 Metal Shell Pile Details
- SA-37 Soil Boring Logs, 1 of 21
- SA-38 Soil Boring Logs, 2 of 21
- SA-39 Soil Boring Logs, 3 of 21
- SA-40 Soil Boring Logs, 4 of 21
- SA-41 Soil Boring Logs, 5 of 21
- SA-42 Soil Boring Logs, 6 of 21
- SA-43 Soil Boring Logs, 7 of 21
- SA-44 Soil Boring Logs, 8 of 21
- SA-45 Soil Boring Logs, 9 of 21
- SA-46 Soil Boring Logs, 10 of 21
- SA-47 Soil Boring Logs, 11 of 21
- SA-48 Soil Boring Logs, 12 of 21
- SA-49 Soil Boring Logs, 13 of 21
- SA-50 Soil Boring Logs, 14 of 21
- SA-51 Soil Boring Logs, 15 of 21
- SA-52 Soil Boring Logs, 16 of 21
- SA-53 Soil Boring Logs, 17 of 21
- SA-54 Soil Boring Logs, 18 of 21
- SA-55 Soil Boring Logs, 19 of 21
- SA-56 Soil Boring Logs, 20 of 21
- SA-57 Soil Boring Logs, 21 of 21

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu Yd		442	442
Concrete Structures	Cu Yd	35.5	464.9	500.4
Concrete Superstructure	Cu Yd	464.8		464.8
Bridge Deck Grooving	Sq Yd	1,343		1,343
Protective Coat	Sq Yd	1,537		1,537
Furnishing and Erecting Structural Steel	L Sum	0.20		0.20
Stud Shear Connectors	Each	5,736		5,736
Reinforcement Bars, Epoxy Coated	Pound	128,540	56,720	185,260
Bar Splicers	Each		138	138
Bridge Fence Railing	Foot	397		397
Slope Wall 4"	Sq Yd		363	363
Furnishing Metal Shell Piles 14"x0.250"	Foot		4,155	4,155
Driving Piles	Foot		4,155	4,155
Test Pile Metal Shells	Each		3	3
Name Plates	Each		1	1
Preformed Joint Strip Seal	Foot		132	132
Elastomeric Bearing Assembly, Type I	Each		17	17
Anchor Bolts, 1"	Each		32	32
Anchor Bolts, 1 1/2"	Each		16	16
Concrete Sealer	Sq Ft		3,552	3,552
Geocomposite Wall Drain	Sq Yd		53	53
Porous Granular Embankment, Special	Cu Yd		122	122
Drainage Scupper, DS-11	Each	4		4
Pipe Underdrains for Structures 4"	Foot		106	106

GENERAL NOTES

1. Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts $\frac{7}{8}$ in. ϕ , holes $\frac{15}{16}$ in. ϕ , unless otherwise noted.
2. Calculated weight of Structural Steel = 284,210 lbs.
Grade 50 = 261,880 lbs.
Grade 36 = 22,330 lbs.
3. No field welding is permitted except as specified in the contract documents.
4. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
7. Concrete Sealer shall be applied to the designated areas of the abutments and pier.
8. The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be gray, Munsell No. 5B 7/1. See Special Provision for "Cleaning and Painting New Metal Structures".
9. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
10. Slope wall shall be reinforced with welded wire fabric, 6 in x 6 in - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.
11. Slipforming of the parapets is not allowed.
12. Light pole foundations and buried conduit shown on Sht. SA-1 to be installed in this contract. Light poles to be installed by others. See electrical plans.

GENERAL DATA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-IHVB-1	ST. CLAIR	345	137
SN 082-0328		CONTRACT NO. 76D05		
SCALE:	SHEET NO. SA-2 OF SA-57	STA. 1683+43.17 TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 3 OVER I-70

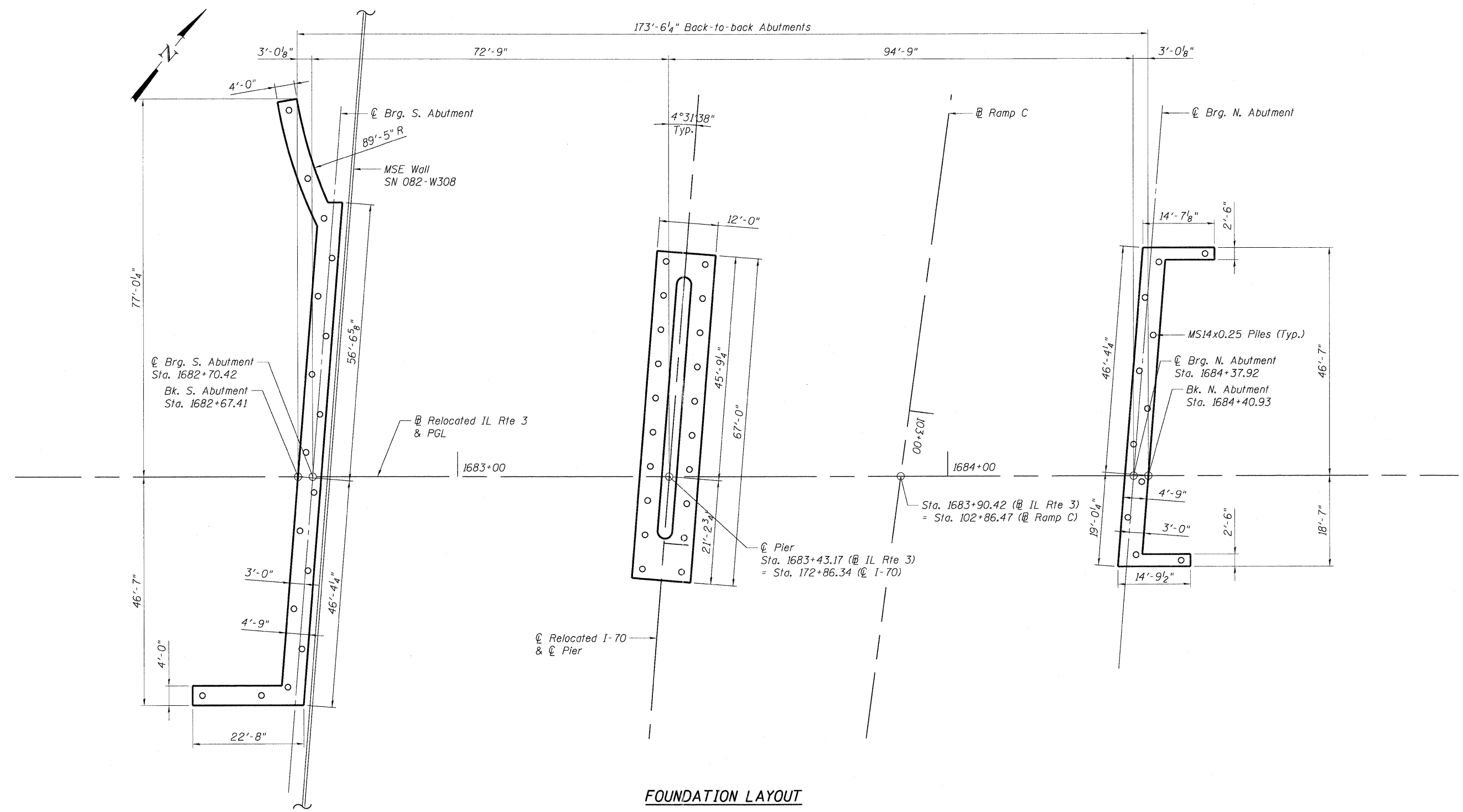
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DRAWN - TCG	REVISED -
CHECKED - JLR	REVISED -
DATE - 05/13/11	REVISED -

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PLOT DATE = #DATE#

FILE NAME =
#FILE#

TENG TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

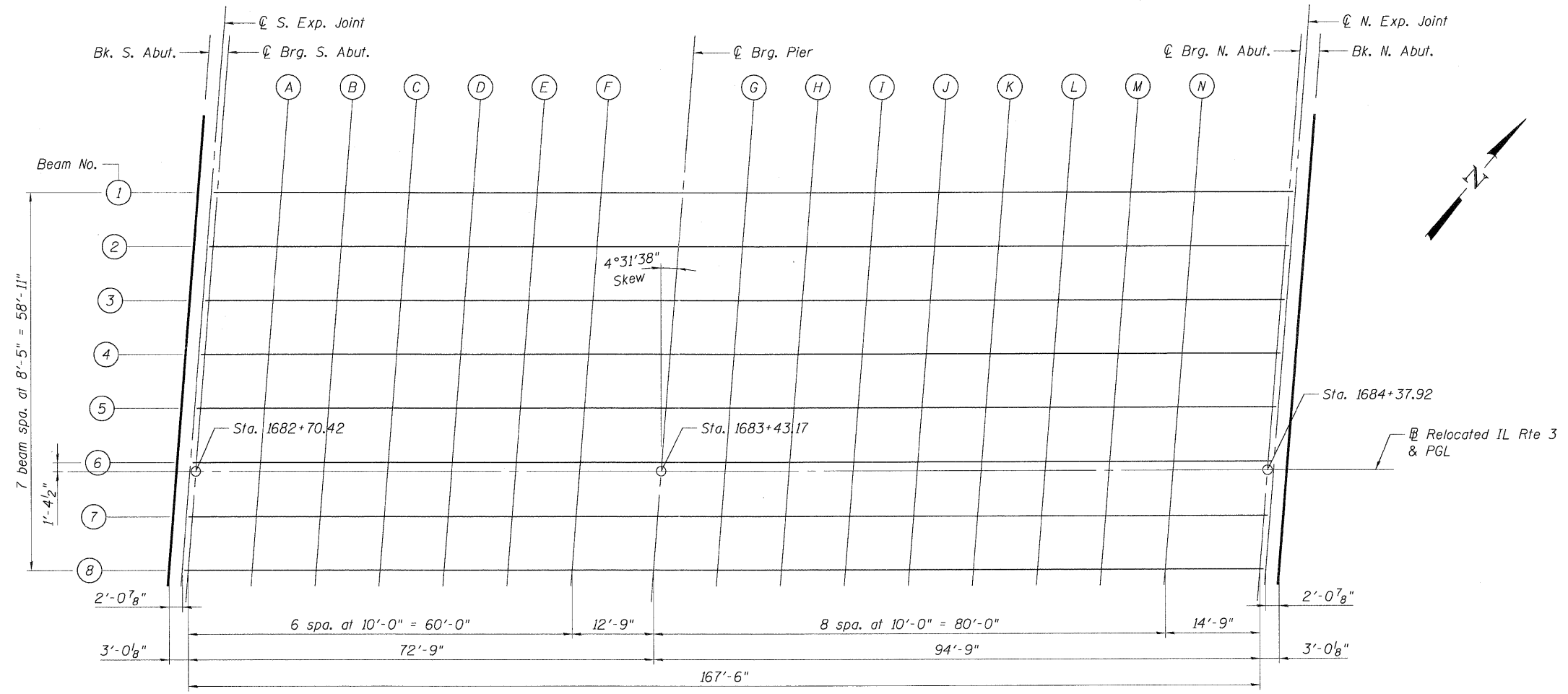
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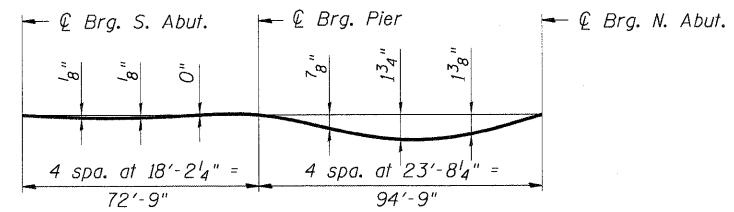
FOUNDATION LAYOUT

NOTE:
See substructure plans for spacing and location of piles.

TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	USER NAME = #USER#	DESIGNED - TCG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER I-70	FOUNDATION LAYOUT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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DATE - 05/13/11	REVISED -											

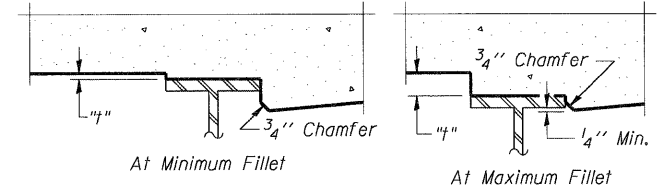


PLAN



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on the following sheets.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on the following sheets, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

\0820328 CONN-18-001-FP.DGN - 0820328 CONN-18-001-TL.DGN - 0820328 CONN-18-001-AL.DGN - 0820328 CONN-18-001-SL.DGN
 \0820328 CONN-18-001-FP.DGN - 0820328 CONN-18-001-TL.DGN - 0820328 CONN-18-001-AL.DGN - 0820328 CONN-18-001-SL.DGN
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FILE NAME = *FILE*	USER NAME = *USER*	DESIGNED - TCG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER I-70	TOP OF SLAB ELEVATIONS 1 OF 3		F.A.P. RTE. 998	SECTION 82-2-1HVB-1	COUNTY ST. CLAIR	TOTAL SHEETS 345	SHEET NO. 139
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TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = *DATE*	DATE - 05/13/11	REVISED -								

GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1682+70.85	-43.46	445.92	445.92
Exp. Jt.	1682+72.93	-43.46	445.89	445.89
Brg. S. Abut.	1682+73.86	-43.46	445.87	445.87
A	1682+83.86	-43.46	445.79	445.80
B	1682+93.86	-43.46	445.62	445.63
C	1683+03.86	-43.46	445.43	445.45
D	1683+13.86	-43.46	445.24	445.25
E	1683+23.86	-43.46	445.04	445.04
F	1683+33.86	-43.46	444.83	444.82
Brg. Pier	1683+46.61	-43.46	444.55	444.55
G	1683+56.61	-43.46	444.32	444.34
H	1683+66.61	-43.46	444.08	444.14
I	1683+76.61	-43.46	443.83	443.92
J	1683+86.61	-43.46	443.57	443.69
K	1683+96.61	-43.46	443.30	443.44
L	1684+06.61	-43.46	443.03	443.16
M	1684+16.61	-43.46	442.74	442.85
N	1684+26.61	-43.46	442.45	442.52
Brg. N. Abut.	1684+41.36	-43.46	442.00	442.00
Exp. Jt.	1684+42.29	-43.46	441.97	441.97
Bk. N. Abut.	1684+44.37	-43.46	441.90	441.90

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1682+70.19	-35.04	446.18	446.18
Exp. Jt.	1682+72.27	-35.04	446.15	446.15
Brg. S. Abut.	1682+73.20	-35.04	446.13	446.13
A	1682+83.20	-35.04	445.97	445.98
B	1682+93.20	-35.04	445.80	445.81
C	1683+03.20	-35.04	445.61	445.63
D	1683+13.20	-35.04	445.42	445.43
E	1683+23.20	-35.04	445.22	445.22
F	1683+33.20	-35.04	445.01	445.01
Brg. Pier	1683+45.95	-35.04	444.73	444.73
G	1683+55.95	-35.04	444.50	444.53
H	1683+65.95	-35.04	444.26	444.32
I	1683+75.95	-35.04	444.01	444.11
J	1683+85.95	-35.04	443.76	443.88
K	1683+95.95	-35.04	443.49	443.63
L	1684+05.95	-35.04	443.21	443.35
M	1684+15.95	-35.04	442.93	443.05
N	1684+25.95	-35.04	442.64	442.71
Brg. N. Abut.	1684+40.70	-35.04	442.19	442.19
Exp. Jt.	1684+41.63	-35.04	442.16	442.16
Bk. N. Abut.	1684+43.71	-35.04	442.09	442.09

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1682+69.52	-26.63	446.36	446.36
Exp. Jt.	1682+71.60	-26.63	446.33	446.33
Brg. S. Abut.	1682+72.53	-26.63	446.31	446.31
A	1682+82.53	-26.63	446.15	446.16
B	1682+92.53	-26.63	445.98	445.99
C	1683+02.53	-26.63	445.80	445.81
D	1683+12.53	-26.63	445.60	445.61
E	1683+22.53	-26.63	445.40	445.40
F	1683+32.53	-26.63	445.20	445.19
Brg. Pier	1683+45.28	-26.63	444.92	444.92
G	1683+55.28	-26.63	444.69	444.71
H	1683+65.28	-26.63	444.45	444.51
I	1683+75.28	-26.63	444.20	444.30
J	1683+85.28	-26.63	443.94	444.07
K	1683+95.28	-26.63	443.68	443.82
L	1684+05.28	-26.63	443.40	443.54
M	1684+15.28	-26.63	443.12	443.23
N	1684+25.28	-26.63	442.82	442.90
Brg. N. Abut.	1684+40.03	-26.63	442.37	442.37
Exp. Jt.	1684+40.96	-26.63	442.35	442.35
Bk. N. Abut.	1684+43.04	-26.63	442.28	442.28

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1682+68.86	-18.21	446.54	446.54
Exp. Jt.	1682+70.94	-18.21	446.51	446.51
Brg. S. Abut.	1682+71.87	-18.21	446.49	446.49
A	1682+81.87	-18.21	446.33	446.34
B	1682+91.87	-18.21	446.16	446.17
C	1683+01.87	-18.21	445.98	445.99
D	1683+11.87	-18.21	445.79	445.79
E	1683+21.87	-18.21	445.59	445.58
F	1683+31.87	-18.21	445.38	445.37
Brg. Pier	1683+44.62	-18.21	445.10	445.10
G	1683+54.62	-18.21	444.87	444.90
H	1683+64.62	-18.21	444.63	444.69
I	1683+74.62	-18.21	444.38	444.48
J	1683+84.62	-18.21	444.13	444.25
K	1683+94.62	-18.21	443.86	444.00
L	1684+04.62	-18.21	443.59	443.73
M	1684+14.62	-18.21	443.30	443.42
N	1684+24.62	-18.21	443.01	443.09
Brg. N. Abut.	1684+39.37	-18.21	442.56	442.56
Exp. Jt.	1684+40.30	-18.21	442.53	442.53
Bk. N. Abut.	1684+42.38	-18.21	442.47	442.47

GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1682+68.19	-9.79	446.72	446.72
Exp. Jt.	1682+70.27	-9.79	446.69	446.69
Brg. S. Abut.	1682+71.20	-9.79	446.67	446.67
A	1682+81.20	-9.79	446.51	446.52
B	1682+91.20	-9.79	446.34	446.35
C	1683+01.20	-9.79	446.16	446.17
D	1683+11.20	-9.79	445.97	445.97
E	1683+21.20	-9.79	445.77	445.77
F	1683+31.20	-9.79	445.56	445.55
Brg. Pier	1683+43.95	-9.79	445.28	445.28
G	1683+53.95	-9.79	445.05	445.08
H	1683+63.95	-9.79	444.82	444.88
I	1683+73.95	-9.79	444.57	444.67
J	1683+83.95	-9.79	444.31	444.44
K	1683+93.95	-9.79	444.05	444.19
L	1684+03.95	-9.79	443.78	443.91
M	1684+13.95	-9.79	443.49	443.61
N	1684+23.95	-9.79	443.20	443.28
Brg. N. Abut.	1684+38.70	-9.79	442.75	442.75
Exp. Jt.	1684+39.63	-9.79	442.72	442.72
Bk. N. Abut.	1684+41.71	-9.79	442.66	442.66

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1682+67.52	-1.38	446.90	446.90
Exp. Jt.	1682+69.60	-1.38	446.86	446.86
Brg. S. Abut.	1682+70.53	-1.38	446.85	446.85
A	1682+80.53	-1.38	446.69	446.70
B	1682+90.53	-1.38	446.52	446.53
C	1683+00.53	-1.38	446.34	446.35
D	1683+10.53	-1.38	446.15	446.16
E	1683+20.53	-1.38	445.95	445.95
F	1683+30.53	-1.38	445.74	445.74
Brg. Pier	1683+43.28	-1.38	445.47	445.47
G	1683+53.28	-1.38	445.24	445.26
H	1683+63.28	-1.38	445.00	445.06
I	1683+73.28	-1.38	444.75	444.85
J	1683+83.28	-1.38	444.50	444.63
K	1683+93.28	-1.38	444.24	444.38
L	1684+03.28	-1.38	443.96	444.10
M	1684+13.28	-1.38	443.68	443.80
N	1684+23.28	-1.38	443.39	443.47
Brg. N. Abut.	1684+38.03	-1.38	442.94	442.94
Exp. Jt.	1684+38.96	-1.38	442.91	442.91
Bk. N. Abut.	1684+41.04	-1.38	442.85	442.85

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 TOP OF SLAB ELEVATIONS 2 OF 3
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 F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 998 82-2-1HVB-1 ST. CLAIR 345 140
 SN 082-0328 CONTRACT NO. 76D05
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1682+67.41	0.00	446.93	446.93
C Exp. Jt.	1682+69.49	0.00	446.89	446.89
C Brg. S. Abut.	1682+70.42	0.00	446.88	446.88
A	1682+80.42	0.00	446.72	446.73
B	1682+90.42	0.00	446.55	446.56
C	1683+00.42	0.00	446.37	446.38
D	1683+10.42	0.00	446.18	446.19
E	1683+20.42	0.00	445.98	445.98
F	1683+30.42	0.00	445.77	445.77
C Brg. Pier	1683+43.17	0.00	445.50	445.50
G	1683+53.17	0.00	445.27	445.29
H	1683+63.17	0.00	445.03	445.09
I	1683+73.17	0.00	444.79	444.88
J	1683+83.17	0.00	444.53	444.66
K	1683+93.17	0.00	444.27	444.41
L	1684+03.17	0.00	443.99	444.13
M	1684+13.17	0.00	443.71	443.83
N	1684+23.17	0.00	443.42	443.50
C Brg. N. Abut.	1684+37.92	0.00	442.97	442.97
C Exp. Jt.	1684+38.85	0.00	442.94	442.94
Bk. N. Abut.	1684+40.93	0.00	442.88	442.88

GIRDER 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1682+66.86	7.04	446.79	446.79
C Exp. Jt.	1682+68.94	7.04	446.76	446.76
C Brg. S. Abut.	1682+69.87	7.04	446.75	446.75
A	1682+79.87	7.04	446.59	446.60
B	1682+89.87	7.04	446.42	446.43
C	1682+99.87	7.04	446.24	446.25
D	1683+09.87	7.04	446.05	446.06
E	1683+19.87	7.04	445.85	445.85
F	1683+29.87	7.04	445.64	445.64
C Brg. Pier	1683+42.62	7.04	445.37	445.37
G	1683+52.62	7.04	445.14	445.17
H	1683+62.62	7.04	444.90	444.96
I	1683+72.62	7.04	444.66	444.76
J	1683+82.62	7.04	444.40	444.53
K	1683+92.62	7.04	444.14	444.28
L	1684+02.62	7.04	443.87	444.01
M	1684+12.62	7.04	443.59	443.70
N	1684+22.62	7.04	443.29	443.37
C Brg. N. Abut.	1684+37.37	7.04	442.85	442.85
C Exp. Jt.	1684+38.30	7.04	442.82	442.82
Bk. N. Abut.	1684+40.38	7.04	442.76	442.76

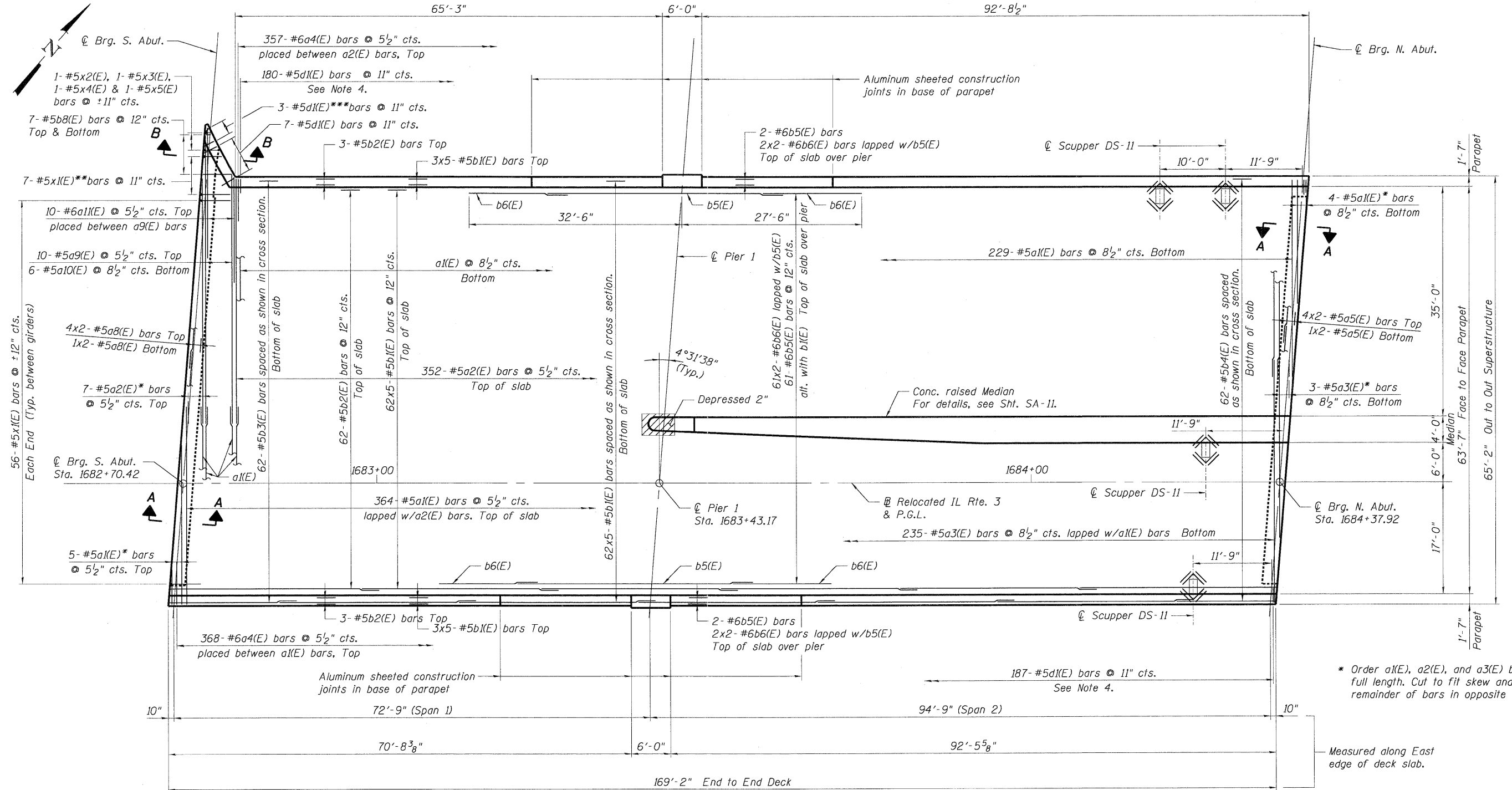
GIRDER 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1682+66.19	15.46	446.64	446.64
C Exp. Jt.	1682+68.27	15.46	446.60	446.60
C Brg. S. Abut.	1682+69.20	15.46	446.59	446.59
A	1682+79.20	15.46	446.43	446.44
B	1682+89.20	15.46	446.26	446.27
C	1682+99.20	15.46	446.08	446.09
D	1683+09.20	15.46	445.89	445.90
E	1683+19.20	15.46	445.70	445.69
F	1683+29.20	15.46	445.49	445.48
C Brg. Pier	1683+41.95	15.46	445.21	445.21
G	1683+51.95	15.46	444.99	445.01
H	1683+61.95	15.46	444.75	444.81
I	1683+71.95	15.46	444.51	444.60
J	1683+81.95	15.46	444.25	444.37
K	1683+91.95	15.46	443.99	444.12
L	1684+01.95	15.46	443.72	443.85
M	1684+11.95	15.46	443.44	443.55
N	1684+21.95	15.46	443.15	443.22
C Brg. N. Abut.	1684+36.70	15.46	442.70	442.70
C Exp. Jt.	1684+37.63	15.46	442.67	442.67
Bk. N. Abut.	1684+39.71	15.46	442.61	442.61

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	SN 082-0328										CONTRACT NO. 76D05		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT	

** Cut bars to fit skew if required.
 *** Bend bars to fit skew.



DECK PLAN

Notes:

- 1. See Sheet SA-14 for Bar List and Bill of Material.
- 2. Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
- 3. Minimum Lap for Deck Reinforcement:
 #5 Bars = 2'-7"
 #6 Bars = 3'-1"
- 4. Space bars to miss Parapet Joints.
- 5. For sections A-A & B-B, see Sheet SA-10.

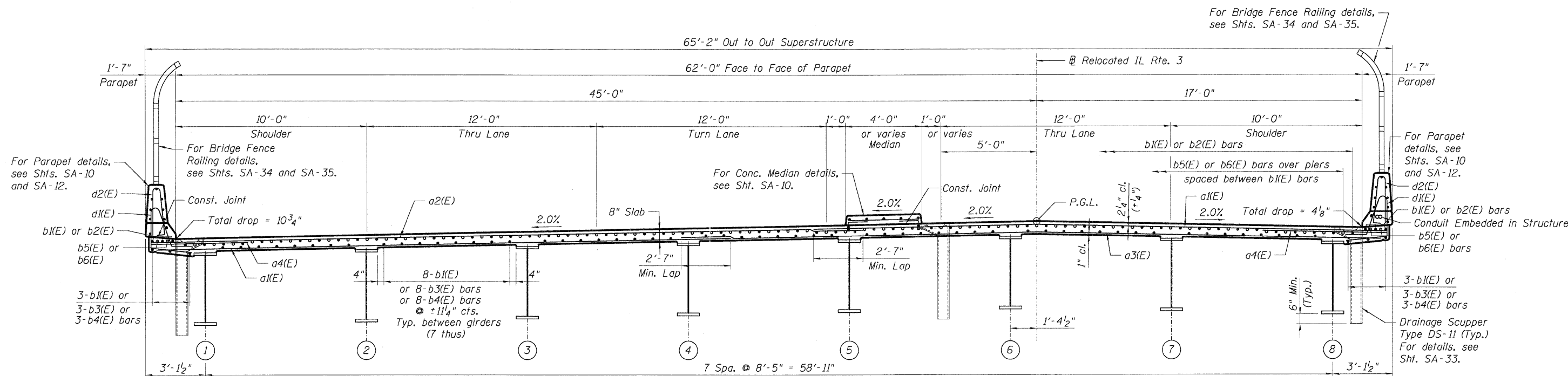
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IL 3 OVER I-70

DECK PLAN			
SCALE:	SHEET NO. SA-8	OF SA-57	STA. 1683+43.17 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HV-1	ST. CLAIR	345	143
SN 082-0328			CONTRACT NO. 76D05	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



CROSS SECTION

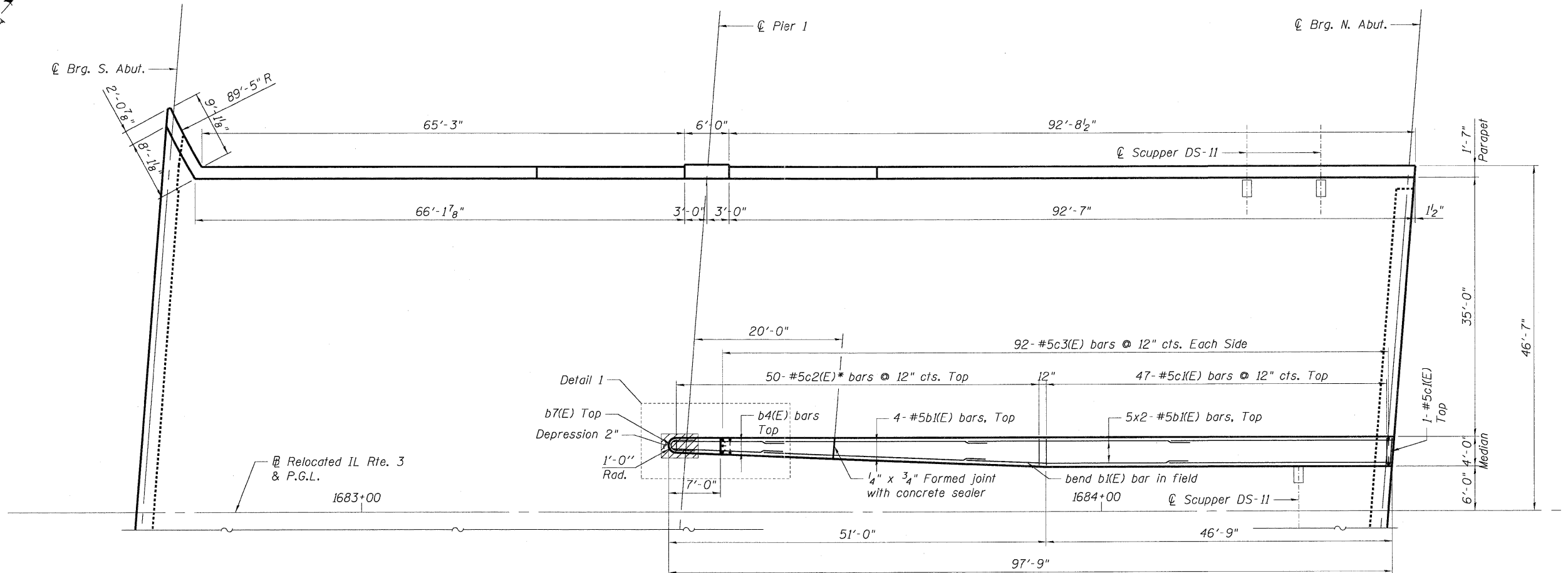
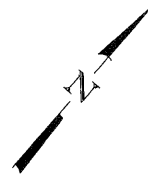
Notes:

1. For scupper spacing, see Sheet SA-8.
2. For Deck details and Bar List, see Sheets SA-10 & SA-14.

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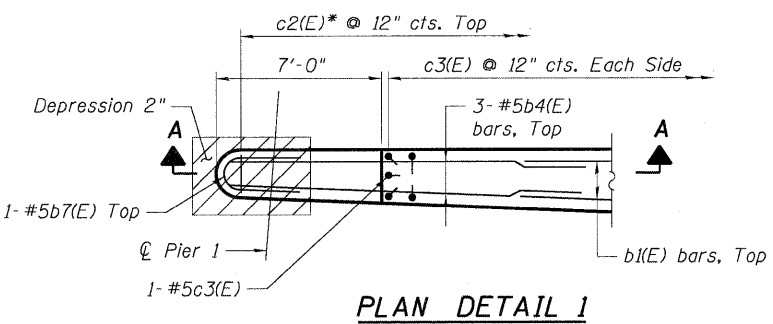
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		DATE - 05/13/11	REVISED -								



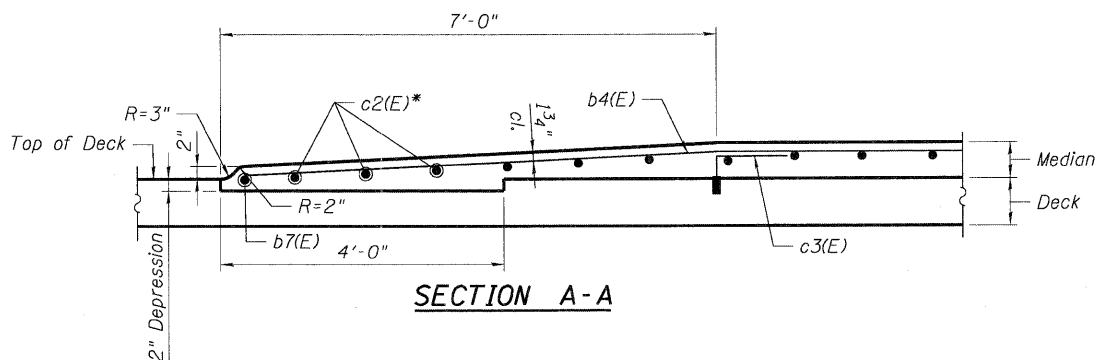


MEDIAN PLAN

* Cut bars according to cutting diagram and use remainder of bars in this set.




PLAN DETAIL 1

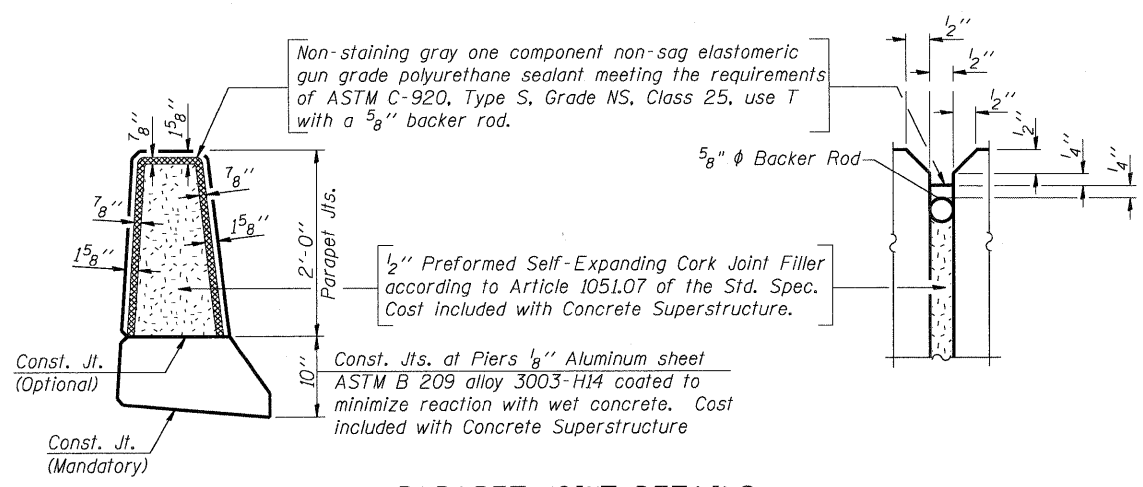
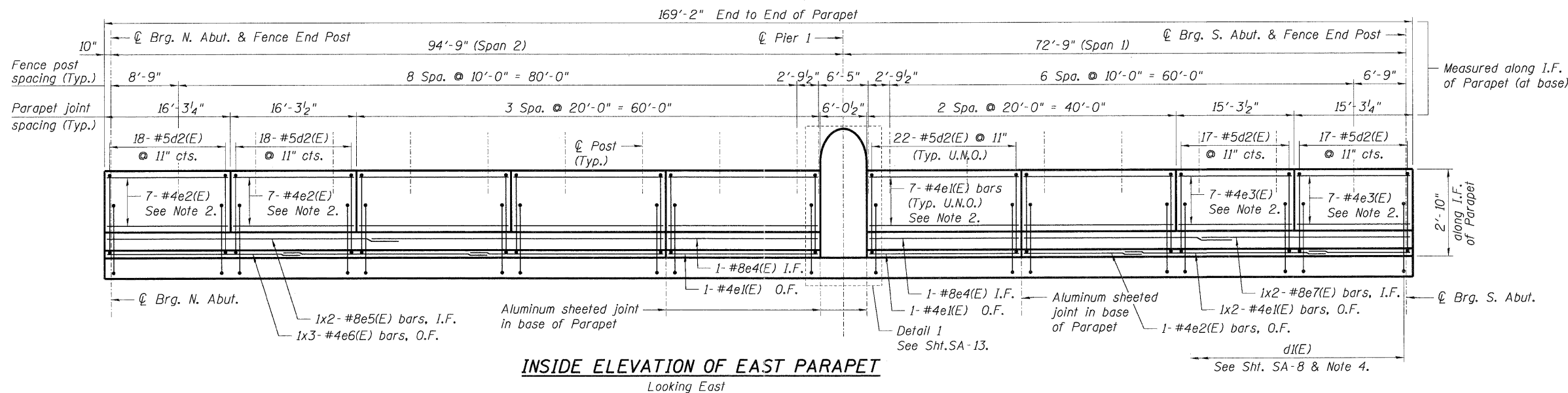
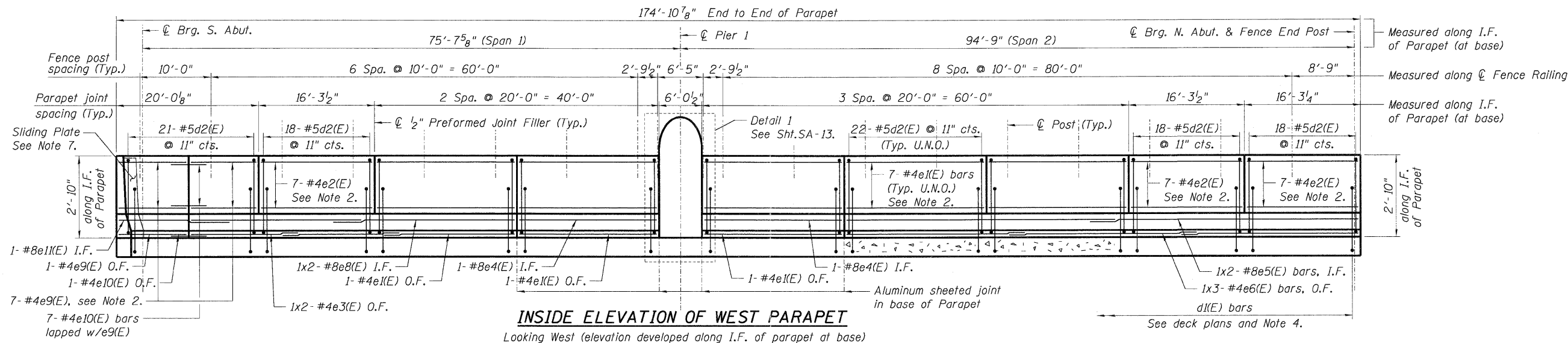


SECTION A-A

Notes:

1. See Sheet SA-14 for Bar List and Bill of Material.
2. Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
3. Minimum Lap for Median Reinforcement:
#5 Bars = 2'-7"

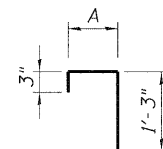
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		DATE - 05/13/11	REVISED -	SCALE:		SHEET NO. SA-11 OF SA-57	STA. 1683+43.17 TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



- Notes:**
- See Sheet SA-14 for Bar list and Sheet SA-10 for Parapet details.
 - Reinforcement shall be spaced as shown in details on Sht. SA-10.
 - I.F. denotes inside face
O.F. denotes outside face
E.F. denotes each face
 - Space bars to miss Parapet Joints.
 - Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 - Minimum Lap for Parapet Reinforcement:
#4 Bars = 2'-1"
#8 Bars = 5'-5"
 - For Sliding Plate details at joint, see Sheet SA-17.

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 DESIGNED: JLR
 CHECKED: JRH
 DATE: 05/13/11

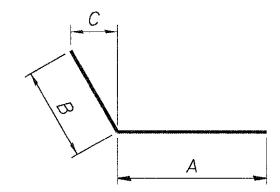
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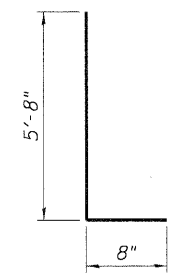
BARS d5(E) & d6(E)

TABLE

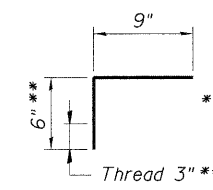
Bar	A	B	C
d5(E)	1'-0"	-	-
d6(E)	1'-0 1/2"	-	-
e10(E)	3'-0"	3'-0"	1'-6"
e11(E)	8'-4"	6'-0"	2'-10 1/8"



BARS e10(E) & e11(E)

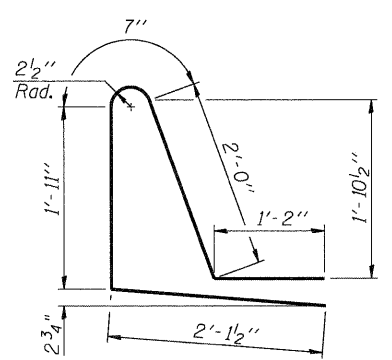


BAR d4(E)

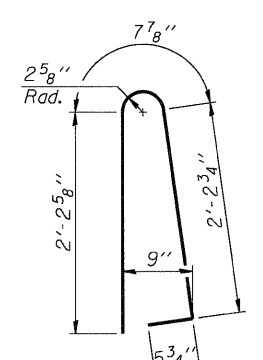


BAR c3(E)

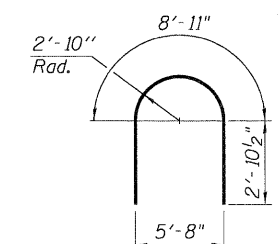
** Coordinate with selected type of Galvanized expansion anchor or Ferrule Loop Slab Insert.
Thread 3" **



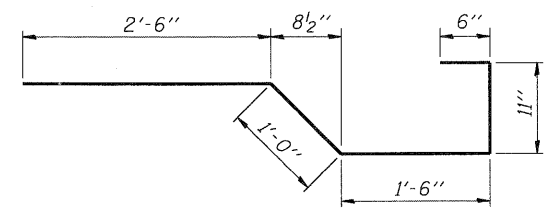
BAR d1(E)



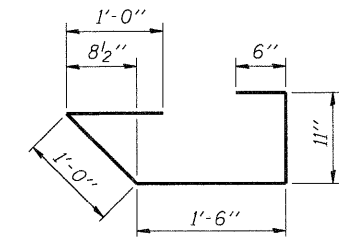
BAR d2(E)



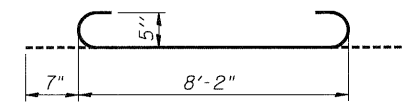
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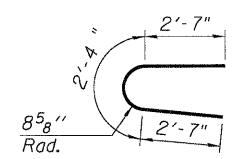
BAR x1(E)



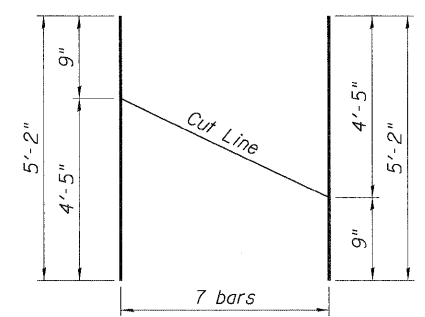
BAR x2(E)



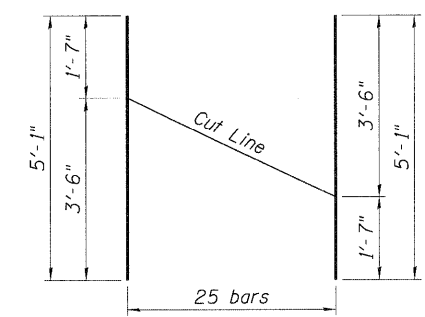
BAR d6(E)



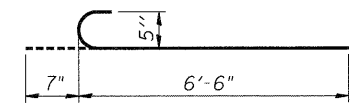
BAR b7(E)



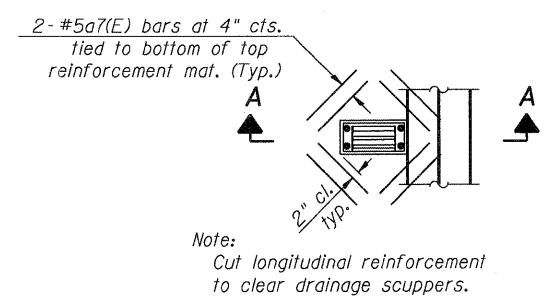
BAR b8(E)



BAR c2(E)

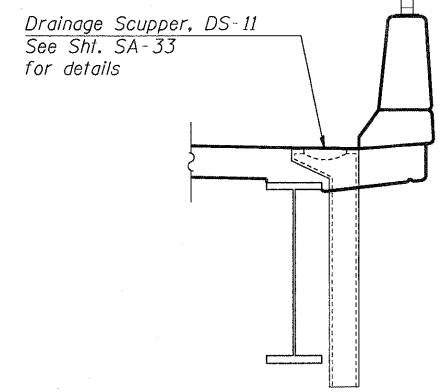


BAR d12(E)

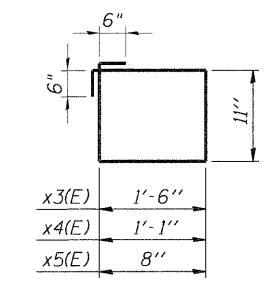


Note: Cut longitudinal reinforcement to clear drainage scuppers.

PLAN



SECTION A-A



BARS x3(E), x4(E) & x5(E)

BAR LIST				
Bar	No.	Size	Length	Shape
a1(E)	602	#5	30'-0"	—
a2(E)	359	#5	37'-3"	—
a3(E)	238	#5	36'-7"	—
a4(E)	725	#6	6'-6"	—
a5(E)	10	#5	33'-9"	—
a6(E)	42	#5	9'-4"	—
a7(E)	32	#5	1'-6"	—
a8(E)	10	#5	37'-9"	—
a9(E)	10	#5	44'-10"	—
a10(E)	6	#5	38'-4"	—
a11(E)	10	#6	20'-0"	—
a12(E)	6	#5	7'-1"	—
b1(E)	664	#5	30'-0"	—
b2(E)	68	#5	32'-0"	—
b3(E)	62	#5	20'-0"	—
b4(E)	65	#5	15'-0"	—
b5(E)	65	#6	36'-0"	—
b6(E)	130	#6	15'-3"	—
b7(E)	1	#5	7'-6"	—
b8(E)*	7	#5	5'-2"	—
c1(E)	48	#5	3'-7"	—
c2(E)*	25	#5	5'-1"	—
c3(E)	185	#5	1'-3"	—
x1(E)	119	#5	6'-5"	—
x2(E)	1	#5	4'-11"	—
x3(E)	1	#5	5'-10"	—
x4(E)	1	#5	5'-0"	—
x5(E)	1	#5	4'-2"	—
d1(E)	377	#5	7'-10"	—
d2(E)	379	#5	5'-7"	—
d3(E)	6	#5	14'-8"	—
d4(E)	20	#5	6'-4"	—
d5(E)	10	#4	2'-6"	—
d6(E)	32	#4	2'-7"	—
e1(E)	77	#4	19'-8"	—
e2(E)	36	#4	16'-0"	—
e3(E)	16	#4	15'-0"	—
e4(E)	4	#8	19'-8"	—
e5(E)	4	#8	39'-0"	—
e6(E)	6	#4	25'-6"	—
e7(E)	2	#8	28'-0"	—
e8(E)	2	#8	25'-8"	—
e9(E)	15	#4	8'-5"	—
e10(E)	8	#4	6'-0"	—
e11(E)	1	#8	14'-4"	—
e12(E)	30	#4	5'-8"	—
e13(E)	2	#8	5'-8"	—

* Cut bars according to Cutting diagram.

BILL OF MATERIAL

Item	Unit	Total
Concrete Superstructure	Cu. Yd.	347.8
Reinforcement Bars, Epoxy Coated	Pound	92,920
Bridge Deck Grooving	Sq. Yd.	1,069
Protective Coat	Sq. Yd.	1,311

FILE NAME: 10820328 CONN-1P-001-SULDON...
 USER NAME: #USER#
 DESIGNED: JLR
 DRAWN: FD
 CHECKED: JRH
 DATE: 05/13/11
 REVISED: -
 REVISED: -
 REVISED: -
 REVISED: -
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 PLOT DATE: #DATE#
TENG TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

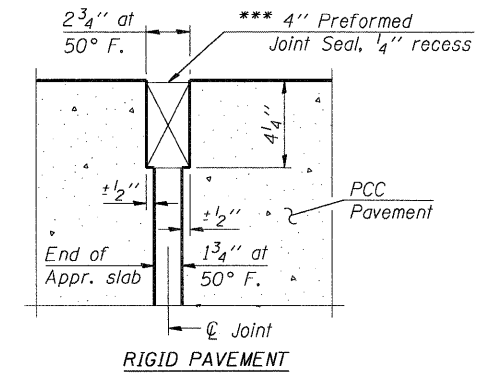
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 IL 3 OVER 1-70

DECK DETAILS & BAR LIST

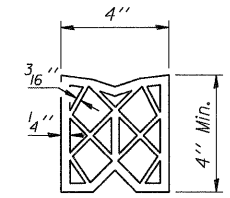
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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SN 082-0328		CONTRACT NO. 76D05		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

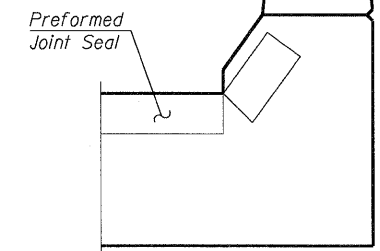
*** Cost included with Concrete Superstructure.



DETAIL A

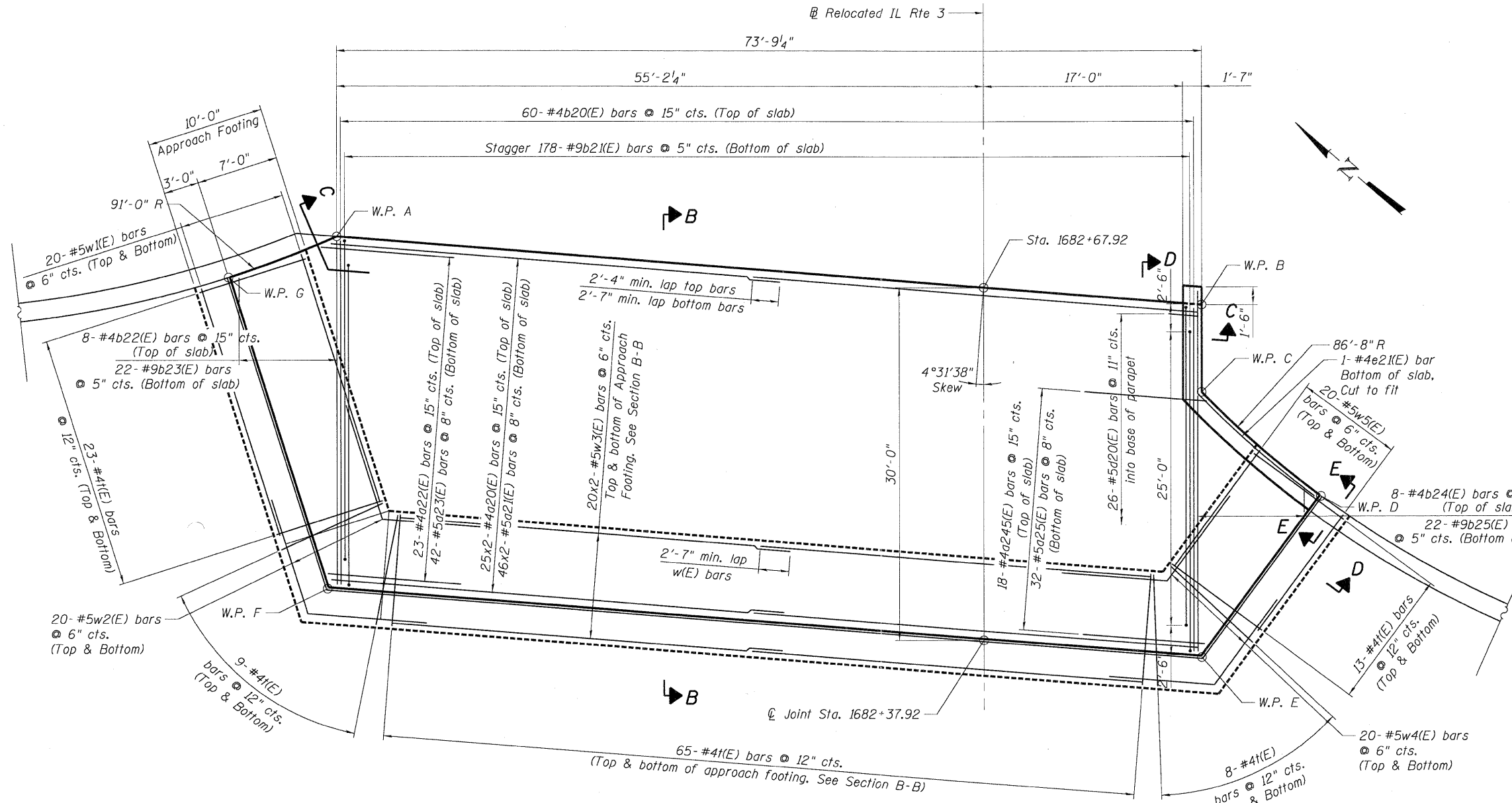


PREFORMED JOINT SEAL



VIEW E-E

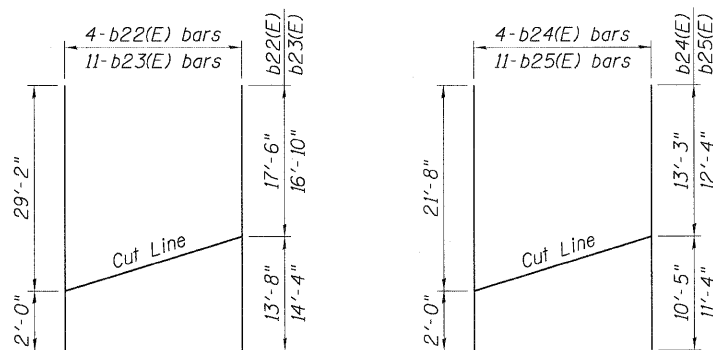
Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.



PLAN

Work Points

Work Point	Station	Offset
A	1682+72.29	55.18 Lt.
B	1682+66.44	18.58 Rt.
C	1682+59.06	18.58 Rt.
D	1682+50.18	28.76 Rt.
E	1682+36.44	18.58 Rt.
F	1682+42.35	56.00 Lt.
G	1682+68.79	64.41 Lt.



CUTTING DIAGRAMS

NOTES:

- See sheet SA-16 for Sections B-B & C-C and View D-D.
- a20(E) thru a23(E) bar spacings measured along Roadway.
- Tilt b21(E) bars as required to maintain clearance.
- Bars indicated thus 25x2-#5 etc. indicated 25 lines of bars with 2 lengths per line.
- See cutting diagrams for b22(E) thru b25(E) bars.

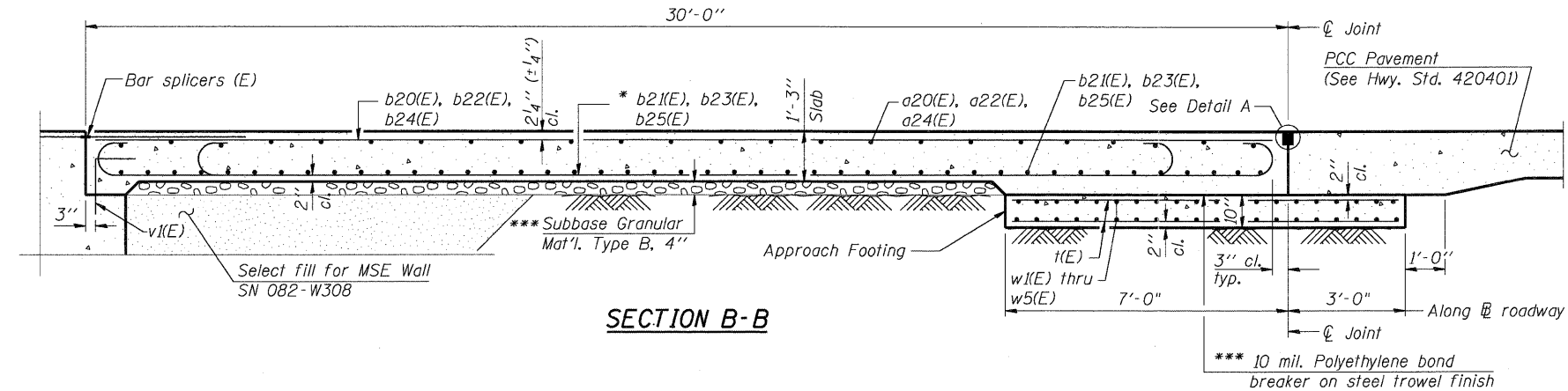
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 REVISIONS -
 REVISED -
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 REVISED -
 REVISED -
 PLOT SCALE = #SCALE*
 PLOT DATE = #DATE*
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER 1-70		SOUTH APPROACH SLAB PLAN		F.A.P. RTE. 998	SECTION 82-2-1HVB-1	COUNTY ST. CLAIR	TOTAL SHEETS 345	SHEET NO. 150
SCALE:		SHEET NO. SA-15 OF SA-57		STA. 1683+43.17 TO STA.		CONTRACT NO. 76D05		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

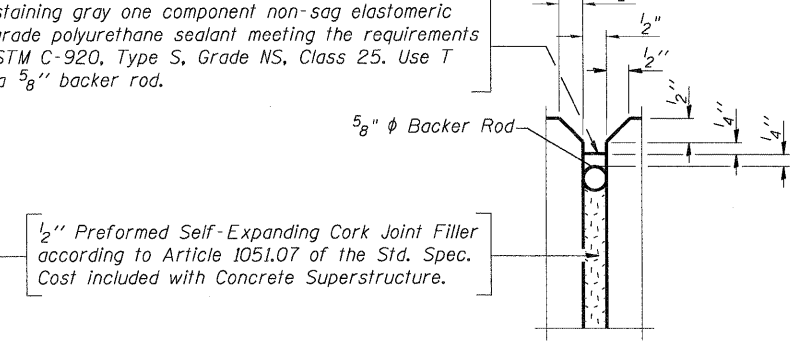
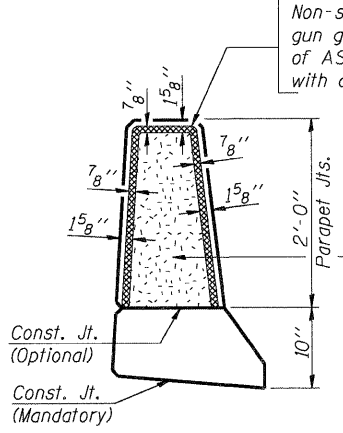
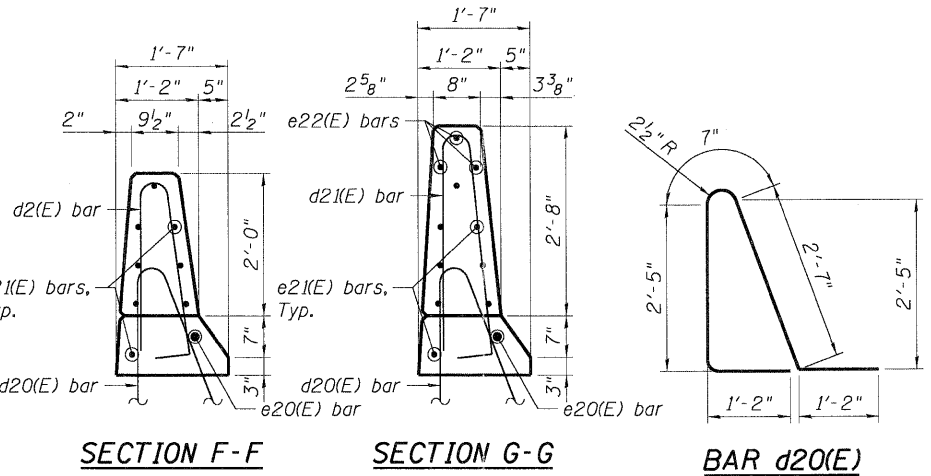
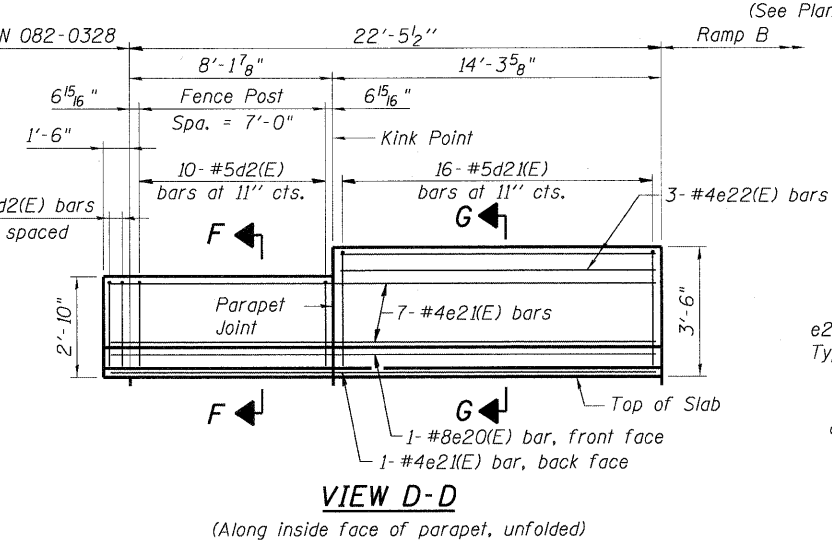
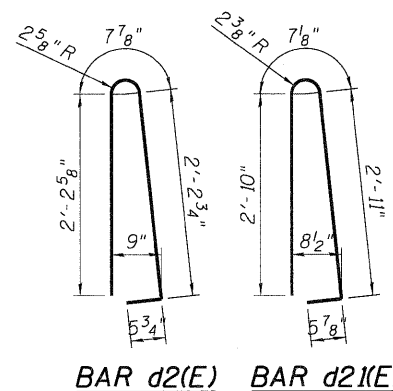
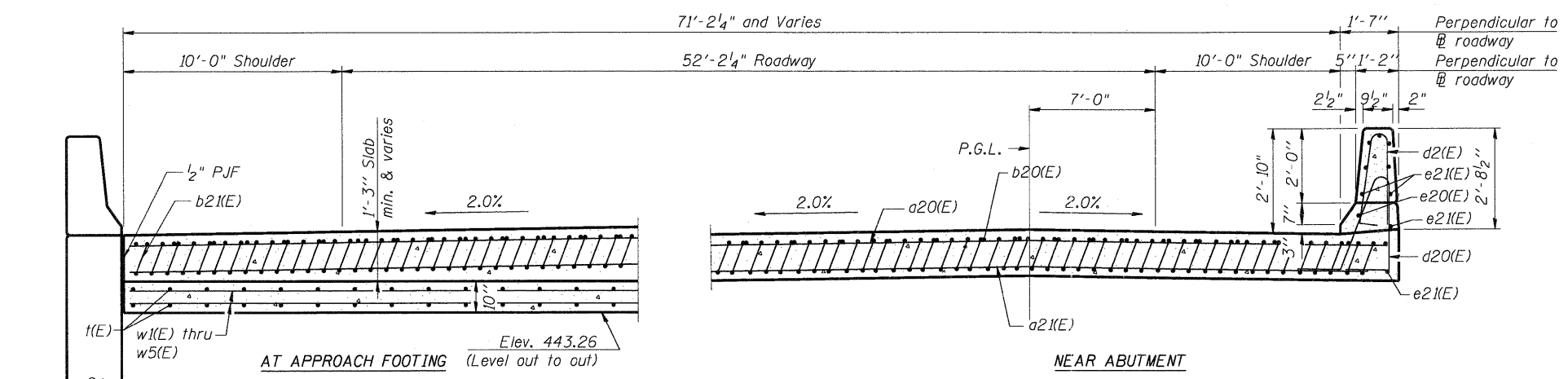
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a20(E)	50	#4	38'-0"	
a21(E)	92	#5	38'-2"	
a22(E)	23	#4	11'-9"	
a23(E)	42	#5	12'-0"	
a24(E)	18	#4	12'-9"	
a25(E)	32	#5	13'-0"	
b20(E)	60	#4	29'-8"	
b21(E)	178	#9	29'-9"	
b22(E)*	4	#4	31'-2"	
b23(E)*	11	#9	31'-2"	
b24(E)*	4	#4	23'-8"	
b25(E)*	11	#9	23'-8"	
d2(E)	12	#5	5'-7"	
d20(E)	26	#5	7'-11"	
d21(E)	16	#5	6'-10"	
e20(E)	1	#8	21'-11"	
e21(E)	8	#4	21'-11"	
e22(E)	3	#4	13'-11"	
t(E)	236	#4	9'-8"	
w1(E)	40	#5	23'-0"	
w2(E)	40	#5	18'-0"	
w3(E)	80	#5	35'-0"	
w4(E)	40	#5	16'-6"	
w5(E)	40	#5	13'-4"	
Protective Coat		Sq. Yd.	226	
Bridge Deck Grooving		Sq. Yd.	274	
Concrete Superstructure		Cu. Yd.	117.0	
Concrete Structures		Cu. Yd.	35.5	
Reinforcement Bars, Epoxy Coated		Pound	35,620	

*Cut bars according to cutting diagrams.

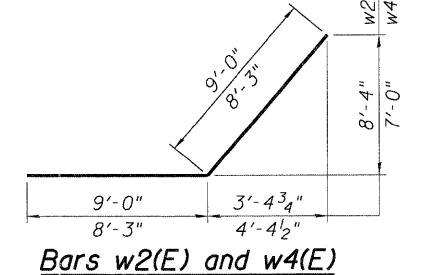
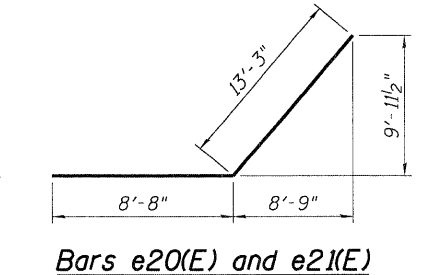
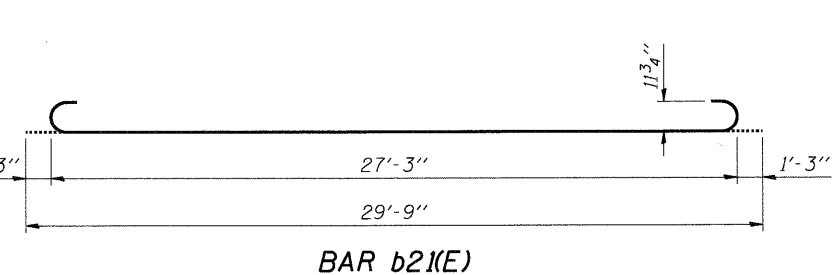


* Tilt #9b21(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.

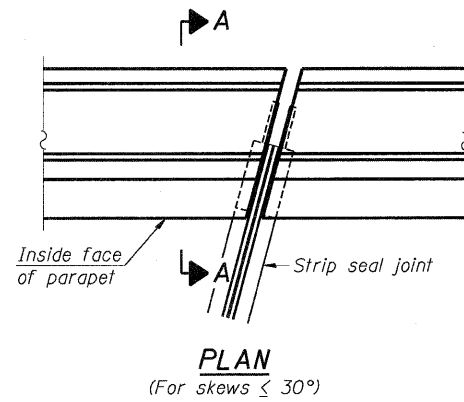


PARAPET JOINT DETAILS

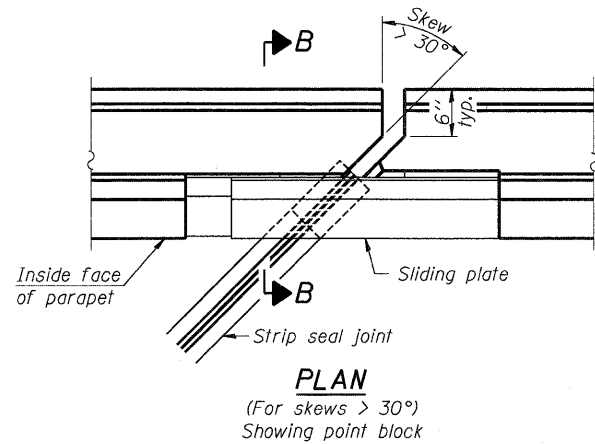
- NOTES:**
- See sheet SA-15 for Detail A and View E-E.
 - Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 - Approach footing concrete shall be paid for as Concrete Structures.
 - Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 - For v1(E) bar details, see sheet SA-23.
 - The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 - For bar splicer details, see sheet SA-32.
 - Cost of excavation for approach footing included with Concrete Structures.
 - Cost of P.J.F. included with Concrete Superstructure.
 - For bridge fence details, see Sht. SA-34.



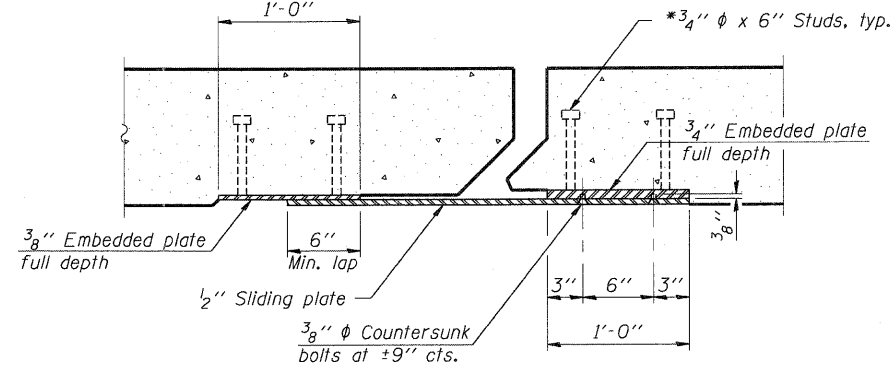
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 REVISION
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS



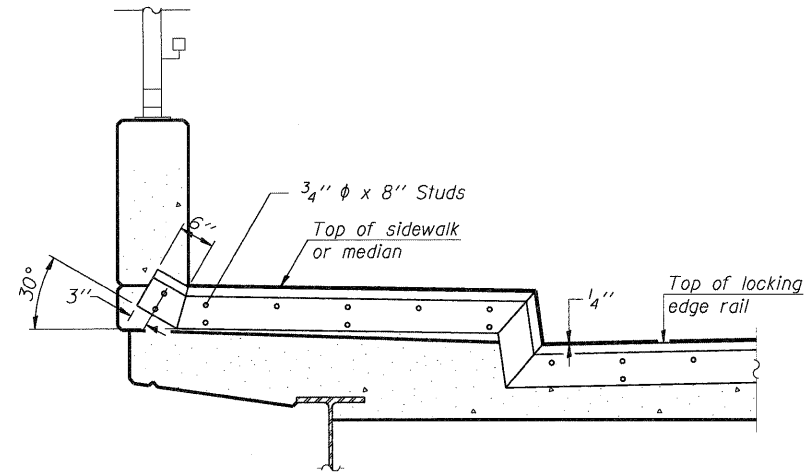
PLAN
(For skews $\le 30^\circ$)



PLAN
(For skews $> 30^\circ$)
Showing point block

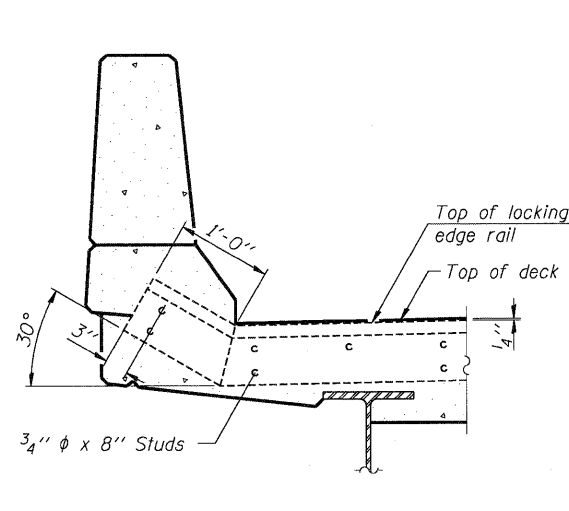


SECTION C-C

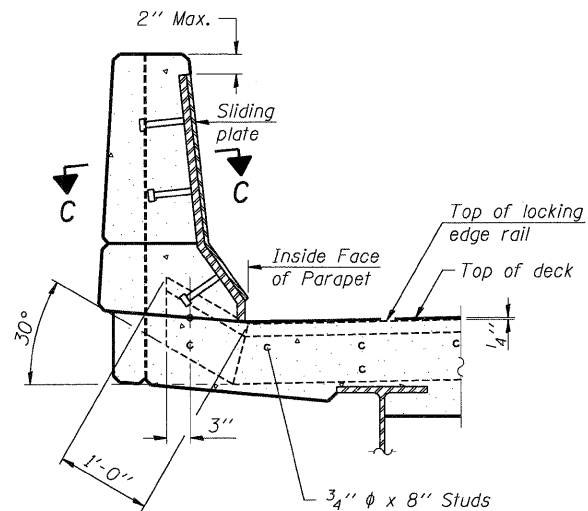


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

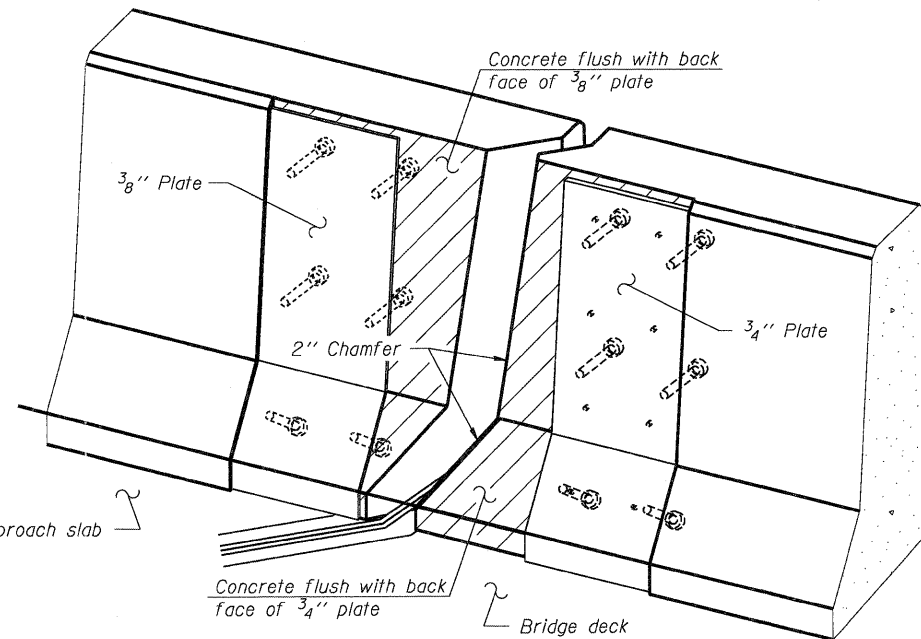
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



SECTION A-A



SECTION B-B



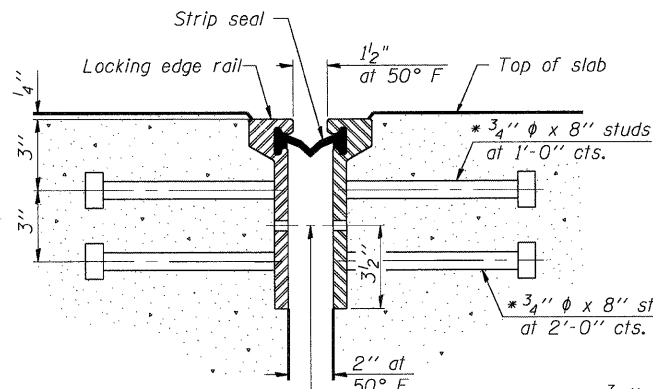
TRIMETRIC VIEW
(Showing back plates only)

Notes:
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

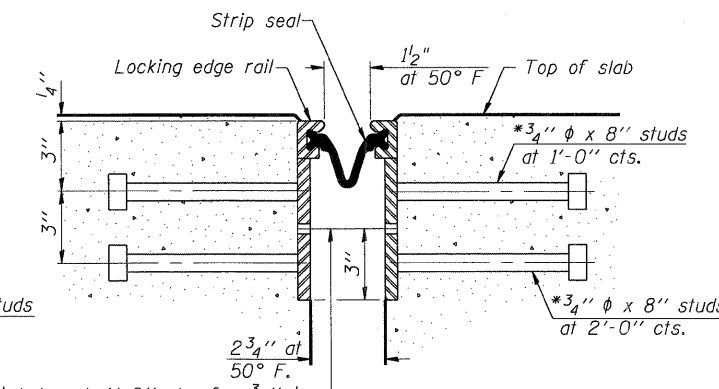
The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.
The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments at stage lines shall be 3/16", sealed with a suitable sealant. Parapet plates and anchorage studs for skews $> 30^\circ$ included in the cost of Preformed Joint Strip Seal.



SECTION THRU ROLLED RAIL JOINT



SECTION THRU WELDED RAIL JOINT

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

ROLLED EXTRUDED RAIL

WELDED RAIL

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	132

LOCKING EDGE RAILS

8020316 CONN-95-001-EDUCN TEL: 312-261-1530
 15-8044-VAN VAL I.D. TRANS. 07/22/02/20866-001/STRUCT/CAOV01 DESIGN/0820328 SHEET/0820328 CONN-10-001-SHT-EDUCN
 15-8044-VAN VAL I.D. TRANS. 07/22/02/20866-001/STRUCT/CAOV01 DESIGN/0820328 SHEET/0820328 CONN-10-001-SHT-EDUCN

EJ-SSJ

7-1-10

FILE NAME =
#FILE#
TENG TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

USER NAME = #USER#
DESIGNED - TCG
DRAWN - TCG
CHECKED - JLR
DATE - 05/13/11

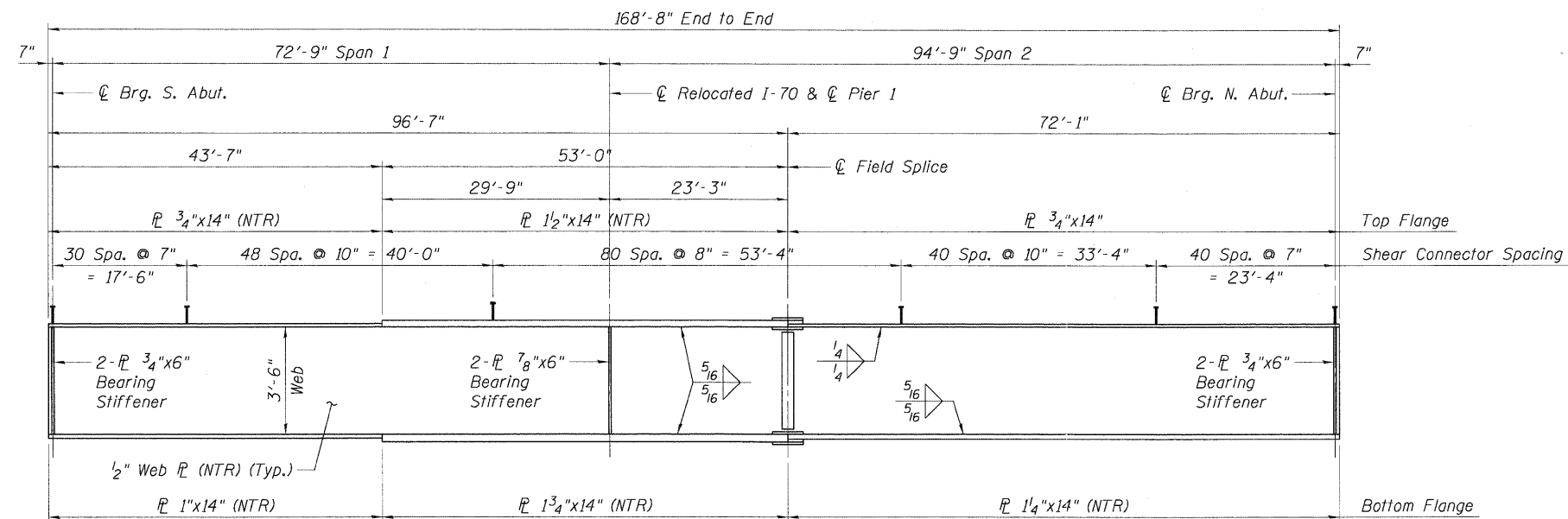
REVISIONS
REVISED -
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 3 OVER 1-70

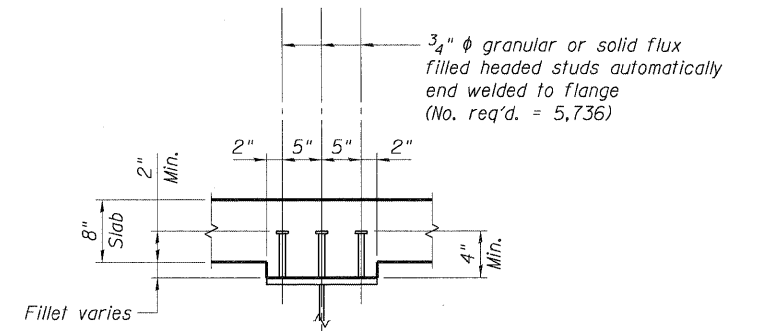
EXPANSION JOINT DETAILS

SCALE: SHEET NO. SA-17 OF SA-57 STA. 1683+43.17 TO STA.

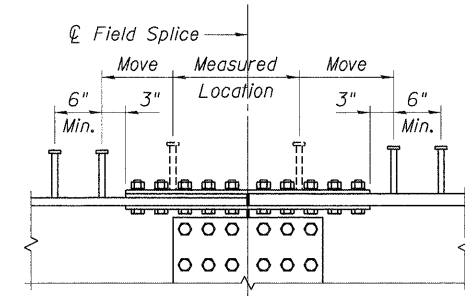
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-3HVB-1	ST. CLAIR	345	152
SN 082-0328		CONTRACT NO. 76D05		
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



GIRDER ELEVATION

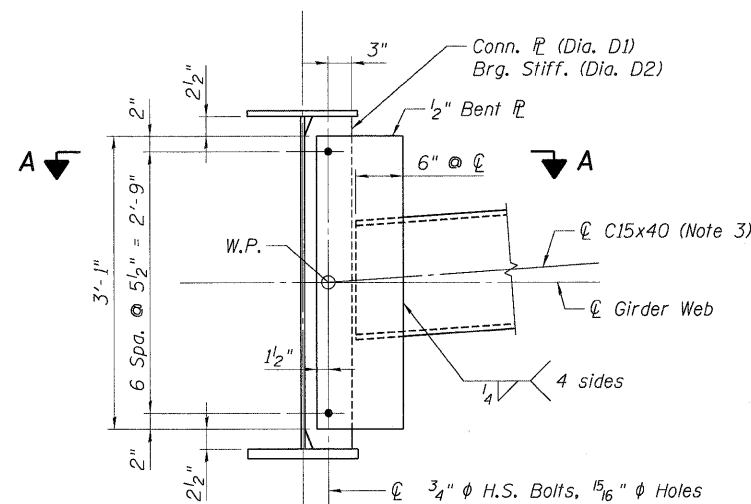


SHEAR CONNECTOR DETAIL



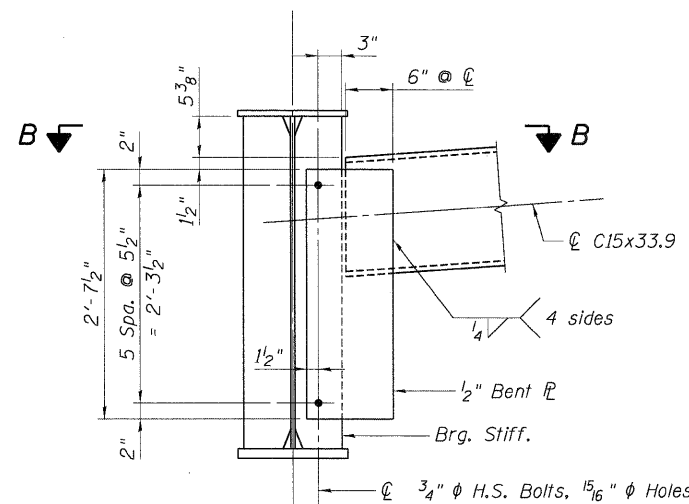
SHEAR CONNECTOR DETAIL AT SPLICES

DO NOT place shear connectors on splice plates.
Move row of studs to 3" beyond nearest edge of splice plate from measured location.



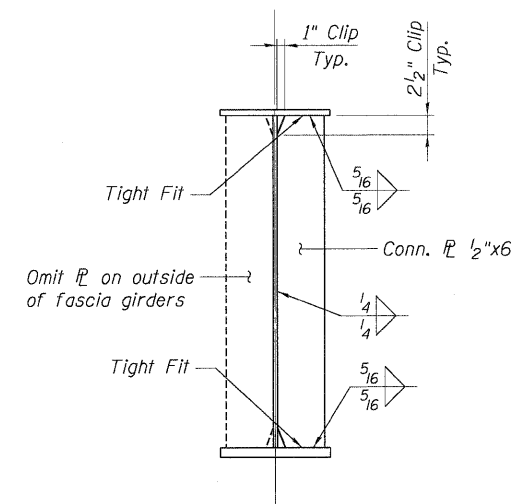
DIAPHRAGM D1 AND D2

(35 D1, 7 D2 Required)

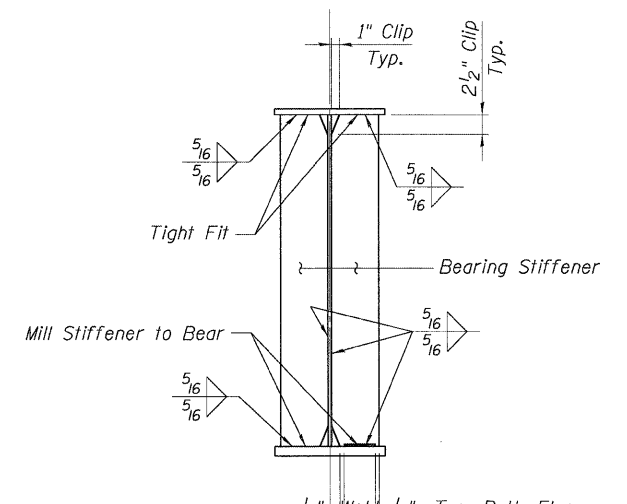


DIAPHRAGM D3

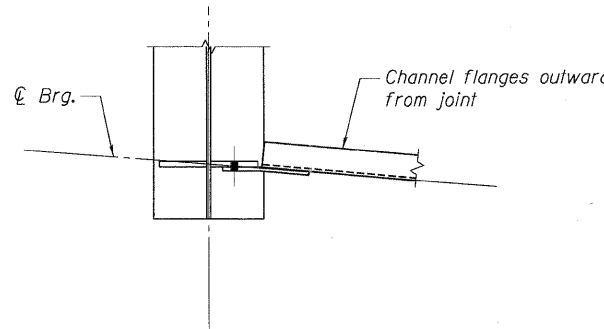
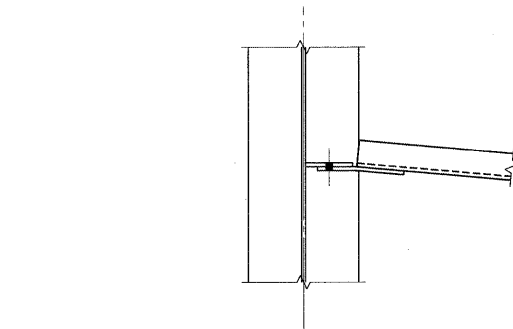
(14 Required)



DIAPHRAGM CONNECTION PLATE DETAIL



BEARING STIFFENER DETAIL



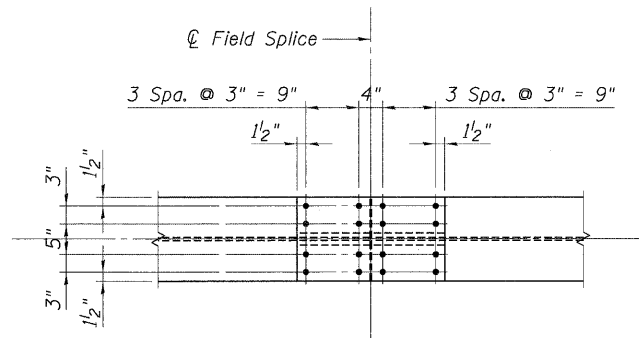
NOTES:

- All structural steel shall be AASHTO M 270 Grade 50 except diaphragms, fill plates, and shim plates shall be Grade 36.
- Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
- Alternate channels C15x50 are permitted for Diaphragms D1 and D2 to facilitate material acquisition. Calculated weight of structural steel is based on C15x40 sections. The alternate, if utilized, shall be provided at no extra cost to the Department.
- Two hardened washers required for each set of oversized holes.

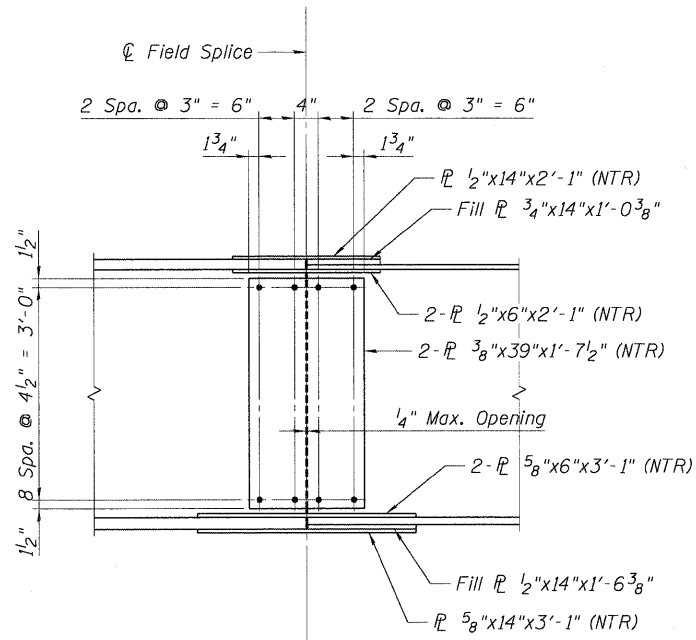
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PLOT DATE = #DATE#		DATE - 05/13/11	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET NO. SA-19 OF SA-57	STA. 1683+43.17 TO STA.						

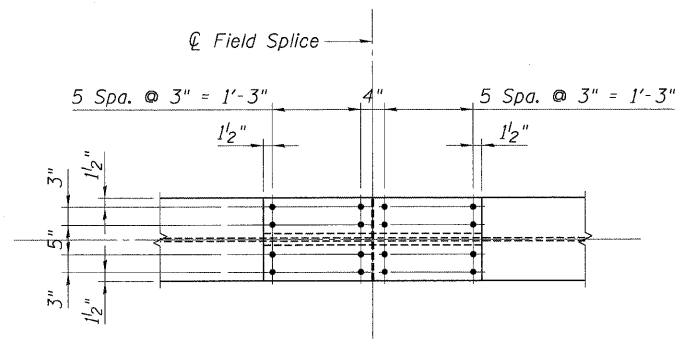




TOP FLANGE



FIELD SPLICE ELEVATION



BOTTOM FLANGE

EXTERIOR GIRDER MOMENT TABLE

		0.4 Span 1	Pier 1	0.6 Span 2
<i>I_s</i>	(in ⁴)	14,229	24,661	15,587
<i>I_c (n)</i>	(in ⁴)	36,787		41,726
<i>I_c (3n)</i>	(in ⁴)	27,233		30,378
<i>I_c (cr)</i>	(in ⁴)		29,665	
<i>S_s</i>	(in ³)	700	1,144	816
<i>S_c (n)</i>	(in ³)	969		1,122
<i>S_c (3n)</i>	(in ³)	891		1,033
<i>S_c (cr)</i>	(in ³)		1,225	
DC1	(k/ft)	0.979	1.050	0.990
M DC1	(k-ft)	209	1,069	653
DC2	(k/ft)	0.126	0.126	0.164
M DC2	(k-ft)	19	152	116
DW	(k/ft)	0.388	0.388	0.388
M DW	(k-ft)	90	391	262
M LL+IM	(k-ft)	1,023	1,420	1,395
Mu (Strength I)	(k-ft)	2,210	4,598	3,796
φf Mn	(k-ft)	4,931		5,534
f _s DC1	(ksi)	3.6	11.2	9.6
f _s DC2	(ksi)	0.3	1.5	1.3
f _s DW	(ksi)	1.2	3.8	3.0
f _s LL+IM	(ksi)	12.7	13.9	14.9
f _s (Service II)	(ksi)	21.5	34.6	33.4
0.95 Rh Fyf	(ksi)	47.5	47.5	47.5
f _s Total (Strength I)	(ksi)	28.8	46.0	44.4
φf F _n	(ksi)		50.0	
Vf	(k)	58.9	56.6	56.9

INTERIOR GIRDER REACTION TABLE

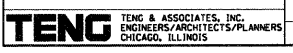
		S. Abut.	Pier 1	N. Abut.
R DC1	(k)	23.8	119.1	39.3
R DC2	(k)	2.5	15.4	6.2
R DW	(k)	8.8	42.0	14.3
R LL+IM	(k)	86.8	159.6	93.6
R Total	(k)	121.9	336.1	153.3

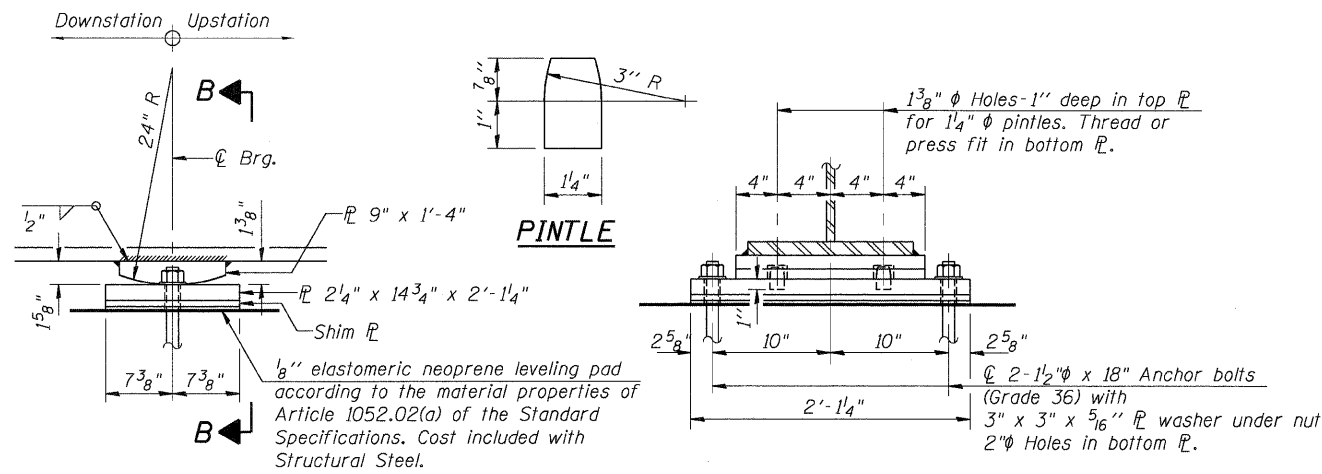
- I_s, S_s*: Noncomposite moment of inertia and section modulus of the steel section used for computing *f_s* (Strength I and Service II) due to noncomposite dead loads
- I_c (n), S_c (n)*: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, *n*, used for computing *f_s* (Strength I and Service II) in uncracked sections due to short-term composite live loads
- I_c (3n), S_c (3n)*: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, 3*n*, used for computing *f_s* (Strength I and Service II) in uncracked sections due to long-term composite (superimposed) dead loads
- I_c (cr), S_c (cr)*: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement used for computing *f_s* (Strength I and Service II) in cracked sections due to both short-term composite live loads and long-term composite dead loads
- DC1: Unfactored noncomposite dead load
- M DC1: Unfactored moment due to noncomposite dead load
- DC2: Unfactored long-term composite (superimposed excluding future wearing surface) dead load
- M DC2: Unfactored moment due to long-term composite (superimposed excluding future wearing surface) dead load
- DW: Unfactored long-term composite (superimposed future wearing surface only) dead load
- M DW: Unfactored moment due to long-term composite (superimposed future wearing surface only) dead load
- M LL+IM: Unfactored moment due to live load plus dynamic load allowance (impact)
- Mu (Strength I): Factored design moment
1.25 [(M DC1) + (M DC2)] + 1.5 (M DW) + 1.75 (M LL+IM)
- φf Mn: Compact composite positive moment capacity computed according to Article 6.10.7.1
- f_s DC1: Unfactored stress at outside face of controlling steel flange due to vertical noncomposite dead loads as calculated below
(M DC1) / *S_s*
- f_s DC2: Unfactored stress at outside face of controlling steel flange due to vertical composite dead loads as calculated below
(M DC2) / [*S_c (3n)*] or (M DC2) / [*S_c (cr)*] as applicable
- f_s DW: Unfactored stress at outside face of controlling steel flange due to vertical composite future wearing surface loads as calculated below
(M DW) / [*S_c (3n)*] or (M DW) / [*S_c (cr)*] as applicable
- f_s LL+IM: Unfactored stress at outside face of controlling steel flange due to vertical composite live plus impact loads as calculated below
(M LL+IM) / [*S_c (n)*] or (M LL+IM) / [*S_c (cr)*] as applicable
- f_s (Service II): Sum of stresses as computed below
(f_s DC1) + (f_s DC2) + (f_s DW) + 1.3 (f_s LL+IM)
- 0.95 Rh Fyf: Composite stress capacity for Service II loading according to Article 6.10.4.2
- f_s Total (Strength I): Sum of stresses as computed below
1.25 [(f_s DC1) + (f_s DC2)] + 1.5 (f_s DW) + 1.75 (f_s LL+IM)
- φf F_n: Composite factored flexural resistance of controlling flange for Strength I loading according to Article 6.10.7.2 or 6.10.8
- Vf: Maximum vertical fatigue shear force range under Fatigue I load combination computed according to Article 6.10.10

NOTES:

1. All structural steel shall be AASHTO M 270 Grade 50 except diaphragms, fill plates, and shim plates shall be Grade 36.
2. Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

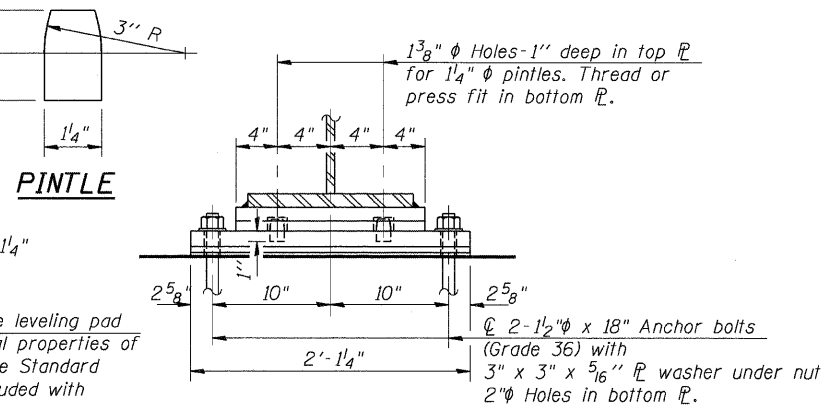
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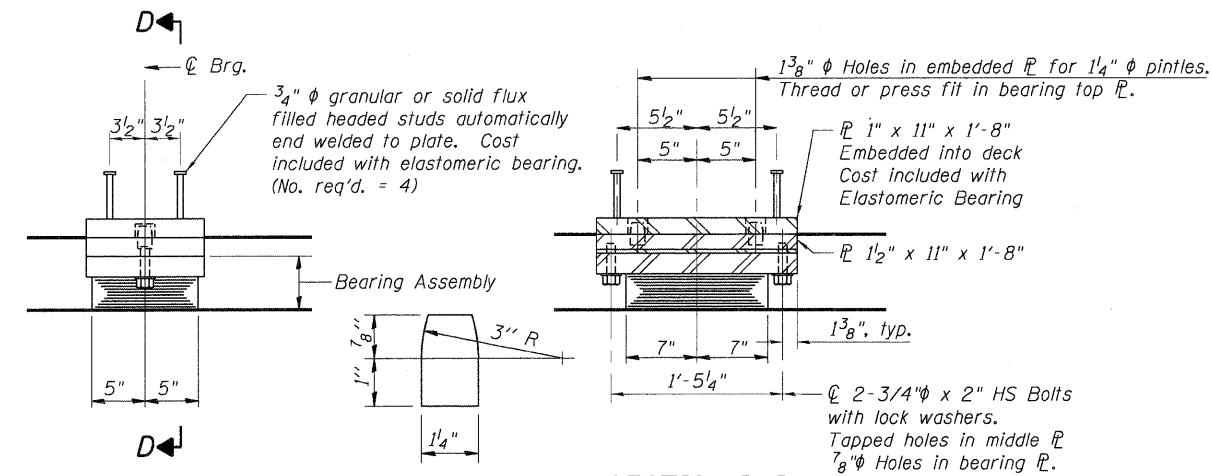


ELEVATION AT PIER

FIXED BEARING AT PIER



SECTION B-B



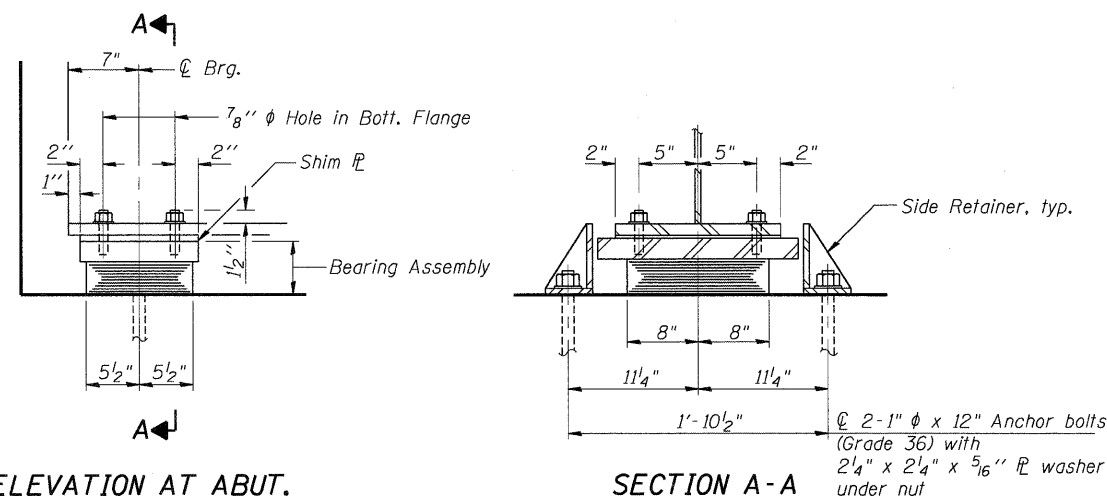
ELEVATION AT ABUT.

TYPE I ELASTOMERIC EXP. BRG. AT SLAB SOUTHWEST CORNER

PINTLE

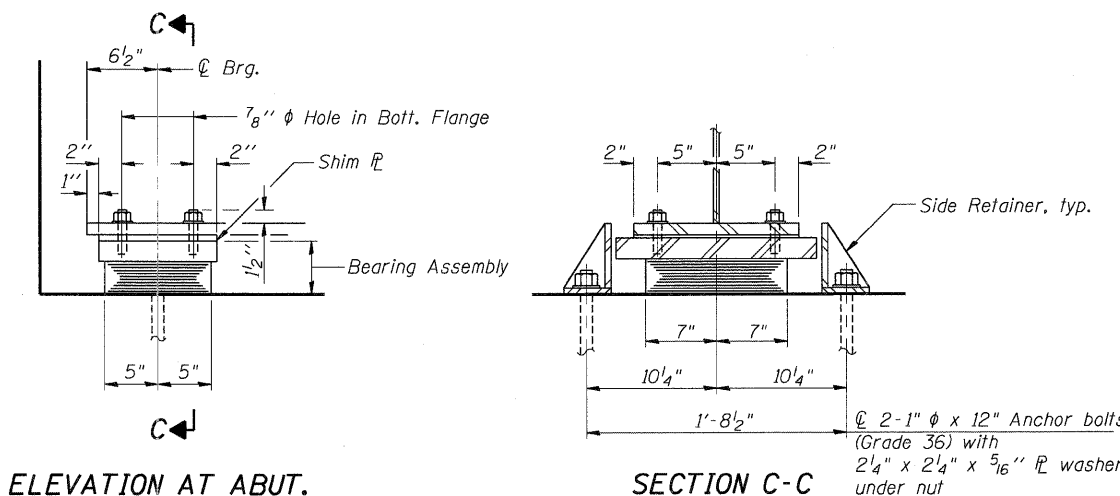
SECTION D-D

(No Side Retainers)



ELEVATION AT ABUT.

SECTION A-A



ELEVATION AT ABUT.

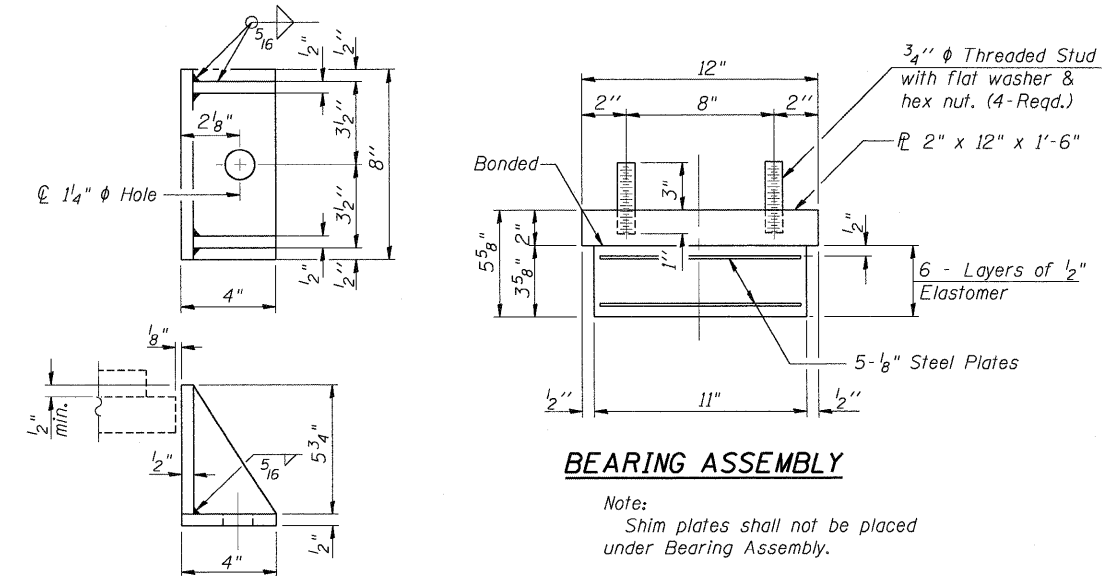
SECTION C-C

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	17
Anchor Bolts, 1"	Each	32
Anchor Bolts, 1 1/2"	Each	16

NOTES:

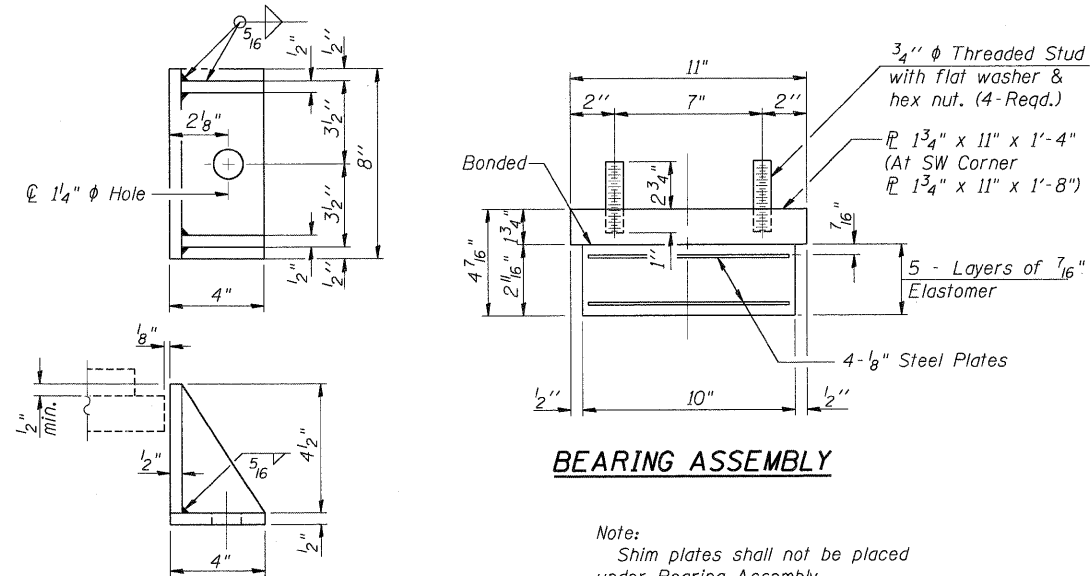
- Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
- Anchor bolts for fixed bearings may be either cast in place or installed in holes after members are in place.
- Anchor bolts for side retainers may be either cast in place or installed in holes drilled before or after members are in place.
- Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
- Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.
- The structural steel plates of the elastomeric bearing assemblies shall conform to the requirements of AASHTO M 270 Grade 36.
- The structural steel plates of the fixed bearing assemblies shall conform to the requirements of AASHTO M 270 Grade 50.
- Two 1/8 inch adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
- The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

NORTH ABUTMENT TYPE I ELASTOMERIC EXP. BRG.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

SOUTH ABUTMENT TYPE I ELASTOMERIC EXP. BRG.

10828316 CONN-99-001-BD.DGN REVISIONS \S\F5-8044\ANVP\U.I.D-TRANS.071222\20868-001\STRUCT\CAD\01_DESIGN\0828316.SHEET\0828316-CONN-10-001-SIT-BR.DGN
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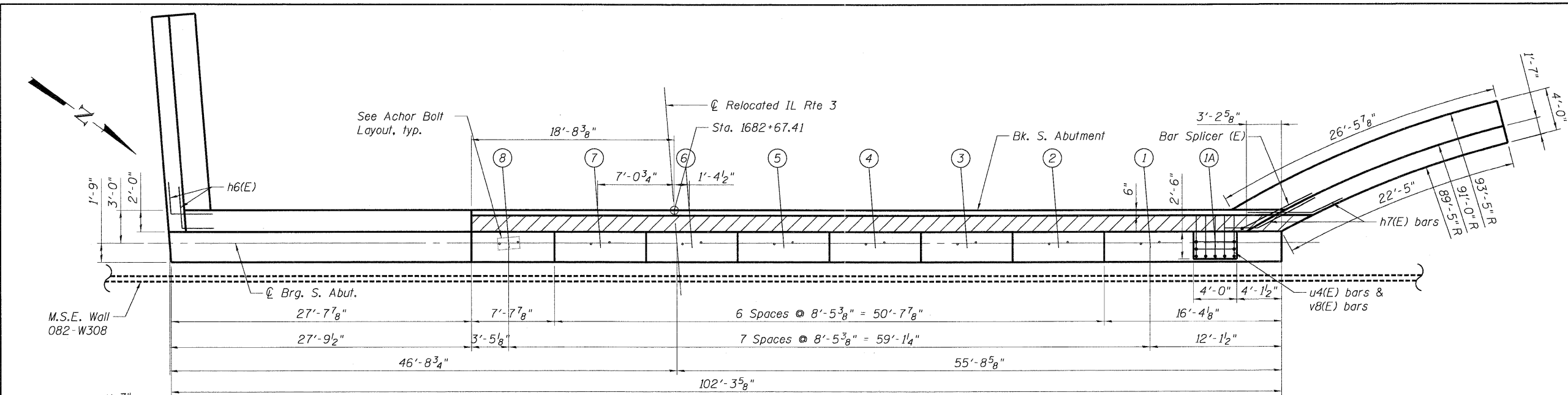
BEARING SEAT ELEVATIONS

Girder	Elevations
1A	443.86
1	441.09
2	441.35
3	441.53
4	441.71
5	441.88
6	442.06
7	441.96
8	441.80

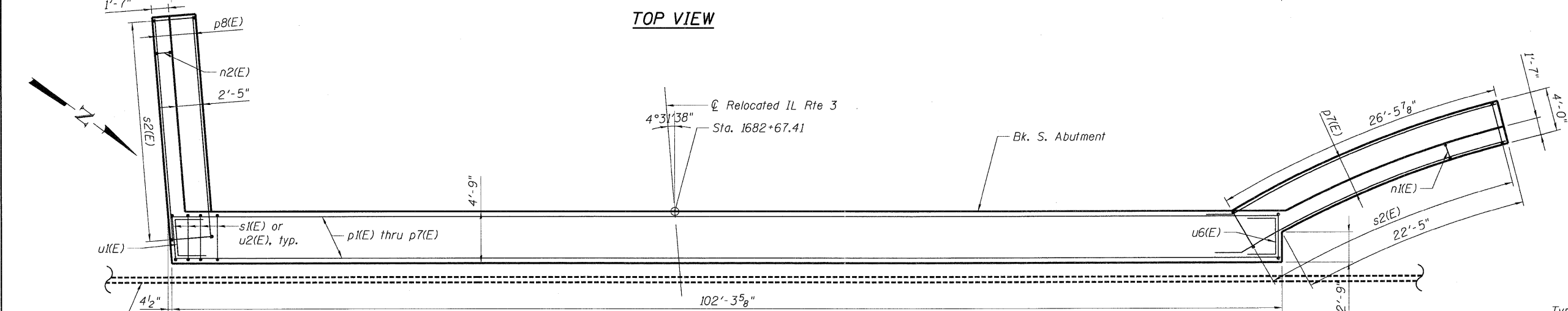
PILE DATA

Type: MS14X0.25 Metal Sheet Piles
 Nominal Required Bearing: 413 kips/pile
 Factored Resistance Available: 227 kips/pile
 Est. Length: 98 ft
 No. Production Piles: 16
 No. Test Piles: 1

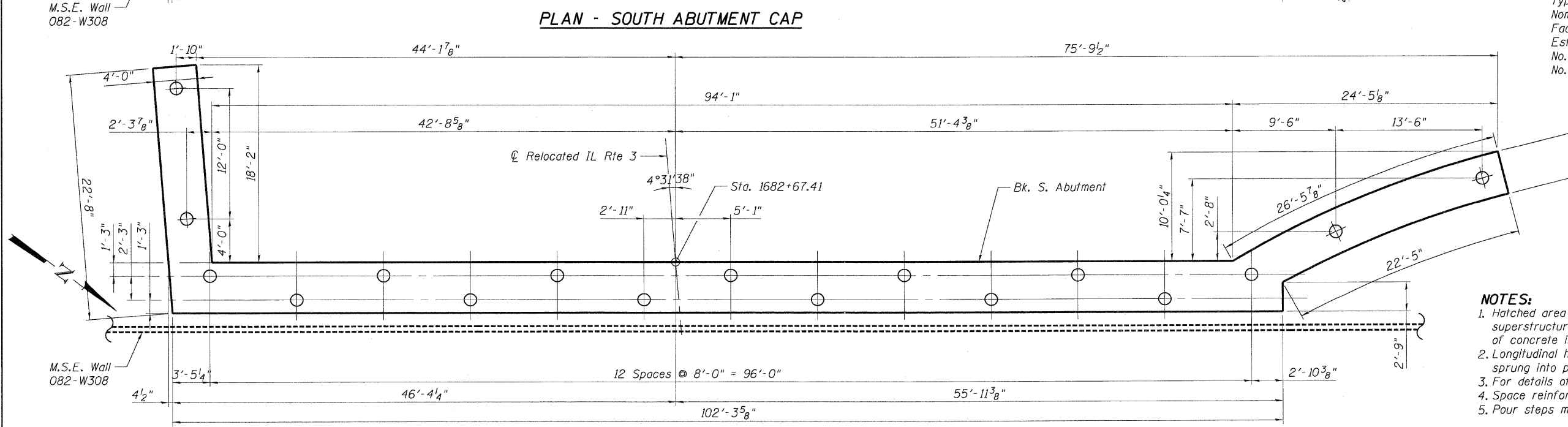
- NOTES:**
- Hatched area of abutment backwall to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.
 - Longitudinal h7(E), h8(E), h9(E), and p8(E) shall be sprung into place to be concentric at the spacing noted.
 - For details of piles, see Sht. SA-36
 - Space reinforcement in cap to miss anchor bolts.
 - Pour steps monolithically with cap.



TOP VIEW



PLAN - SOUTH ABUTMENT CAP



PILE LAYOUT - SOUTH ABUTMENT

SOUTH ABUTMENT BAR LIST

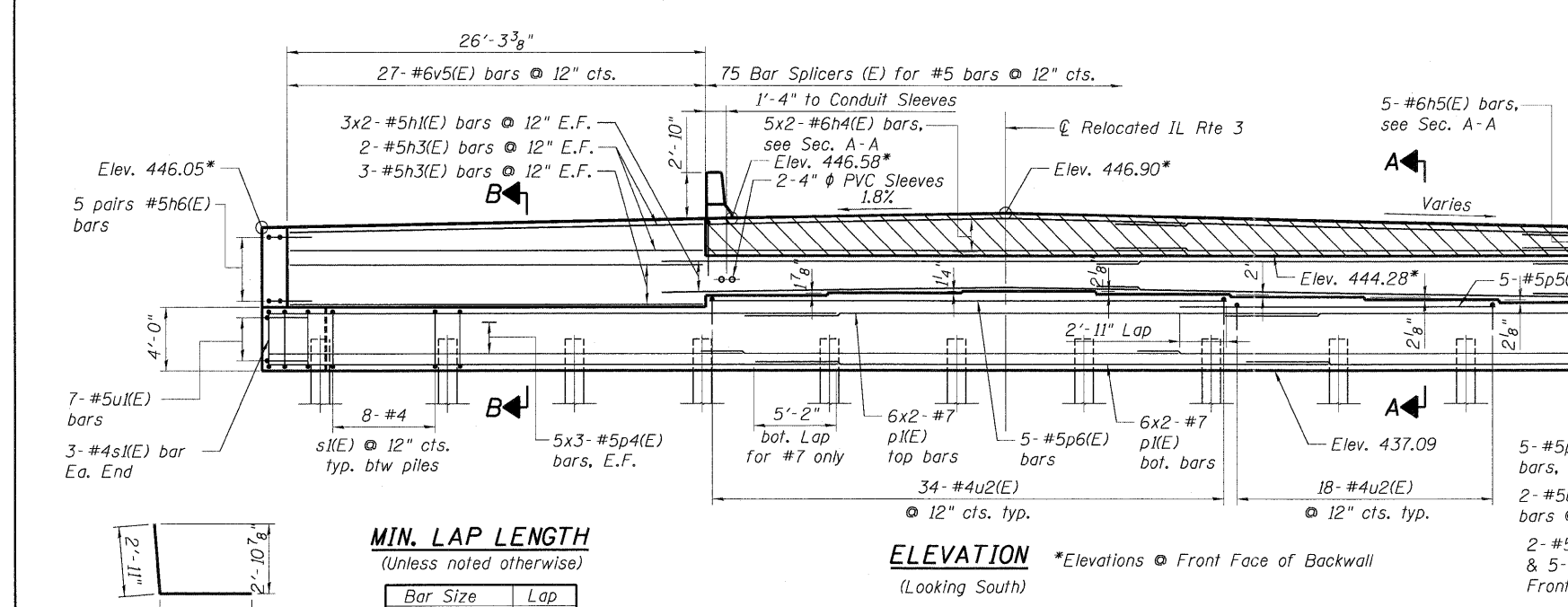
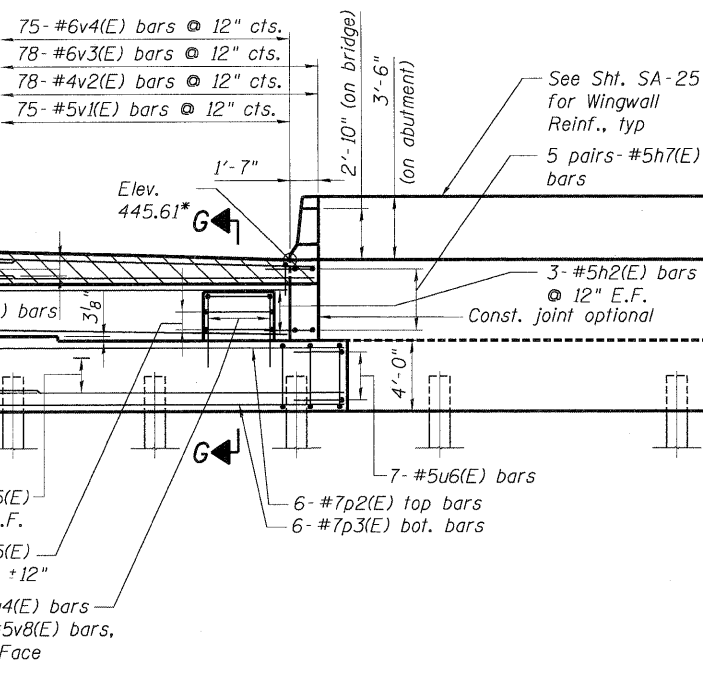
Bar	No.	Size	Length	Shape
h1(E)	12	#5	30'-0"	—
h2(E)	6	#5	22'-9"	—
h3(E)	10	#5	25'-11"	—
h4(E)	10	#6	30'-0"	—
h5(E)	5	#6	26'-0"	—
h6(E)	10	#5	6'-9"	—
h7(E)	10	#5	9'-0"	—
h8(E)	10	#5	25'-4"	—
h9(E)	10	#5	22'-1"	—
h10(E)	12	#5	19'-8"	—
n1(E)	62	#6	12'-2"	—
n2(E)	49	#6	14'-2"	—
p1(E)	24	#7	36'-0"	—
p2(E)	6	#7	41'-8"	—
p3(E)	6	#7	40'-4"	—
p4(E)	30	#5	30'-0"	—
p5(E)	15	#5	19'-10"	—
p6(E)	5	#5	32'-8"	—
p7(E)	16	#7	28'-11"	—
p8(E)	16	#7	20'-6"	—
s1(E)	102	#4	16'-11"	□
s2(E)	47	#4	15'-5"	□
u1(E)	7	#5	9'-6"	—
u2(E)	52	#5	8'-10"	—
u3(E)	25	#5	6'-6"	—
u4(E)	2	#5	12'-3"	—
u5(E)	2	#5	11'-5"	—
u6(E)	7	#5	9'-6"	—
v1(E)	75	#5	4'-9"	┌
v2(E)	78	#4	4'-3"	┌
v3(E)	78	#6	7'-6"	┌
v4(E)	75	#6	5'-10"	┌
v5(E)	27	#6	16'-1"	┌
v6(E)	62	#6	7'-5"	┌
v7(E)	31	#5	7'-2"	┌
v8(E)	5	#5	8'-0"	┌

For details of Bar Splicers, see sheet SA-32
For details of piles, see sheet SA-36.

SOUTH ABUTMENT BILL OF MATERIALS

Item	Unit	Total
Concrete Structures	Cu. Yd.	155.9
Reinforcement Bars, Epoxy Coated	Pound	16,540
Furnishing Metal Shell Piles 14"x0.250"	Foot	1,568
Driving Piles	Foot	1,568
Test Pile Metal Shells	Each	1
Concrete Sealer	Sq. Ft.	871

- NOTES:**
- Bars indicated thus 5x3-#5 etc. indicates 5 lines with 3 lengths per line.
 - E.F. indicates each face.
 - Drive piles, install CMP pile sleeves, fill annular space around piles with sand, construct MSE Wall. Cost of CMP pile sleeves, sand, and P/J are included with Metal Shell Piles.

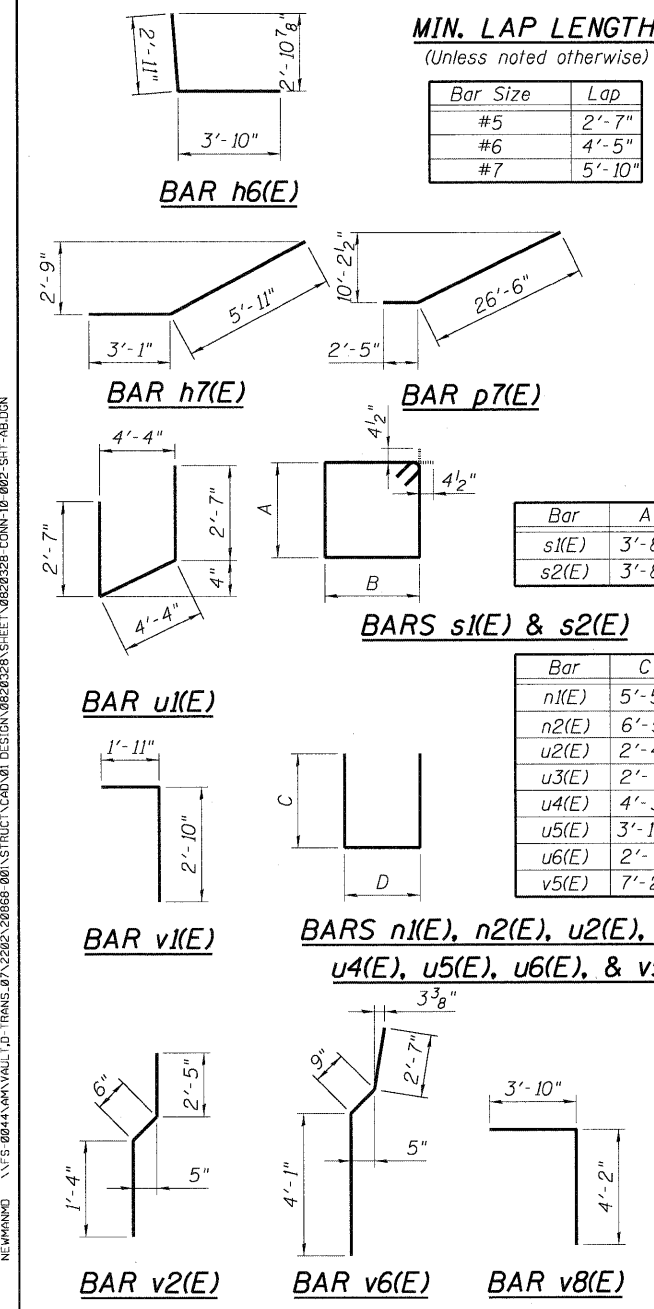


MIN. LAP LENGTH (Unless noted otherwise)

Bar Size	Lap
#5	2'-7"
#6	4'-5"
#7	5'-10"

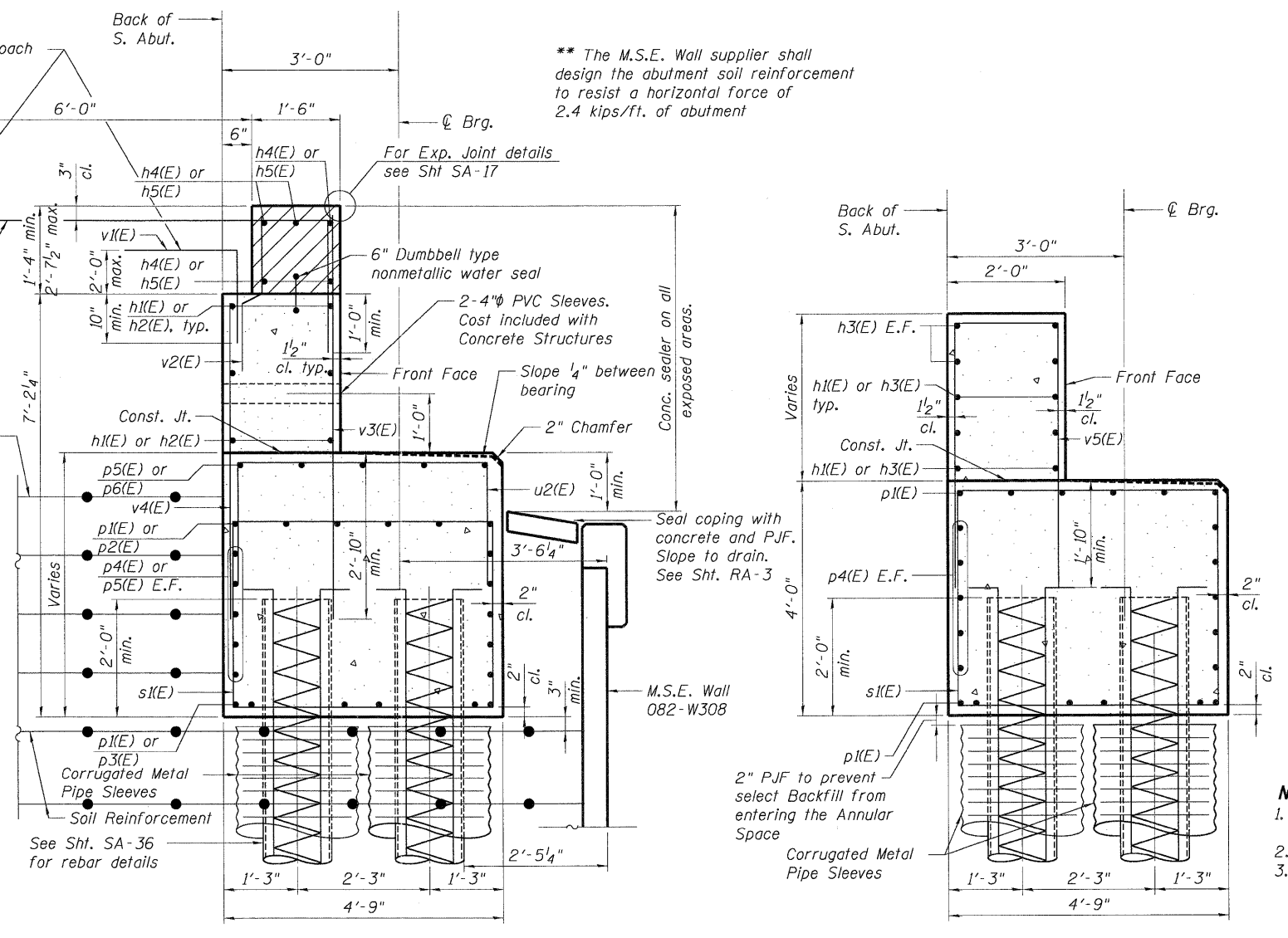
ELEVATION (Looking South)

*Elevations @ Front Face of Backwall



Bar	A	B
s1(E)	3'-8"	4'-5"
s2(E)	3'-8"	3'-8"

Bar	C	D
n1(E)	5'-5"	1'-4"
n2(E)	6'-5"	1'-4"
u2(E)	2'-4"	4'-2"
u3(E)	2'-7"	1'-4"
u4(E)	4'-3"	3'-9"
u5(E)	3'-10"	3'-9"
u6(E)	2'-7"	4'-4"
v5(E)	7'-2"	1'-9"



SECTION A-A

SECTION B-B

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 3 OVER I-70

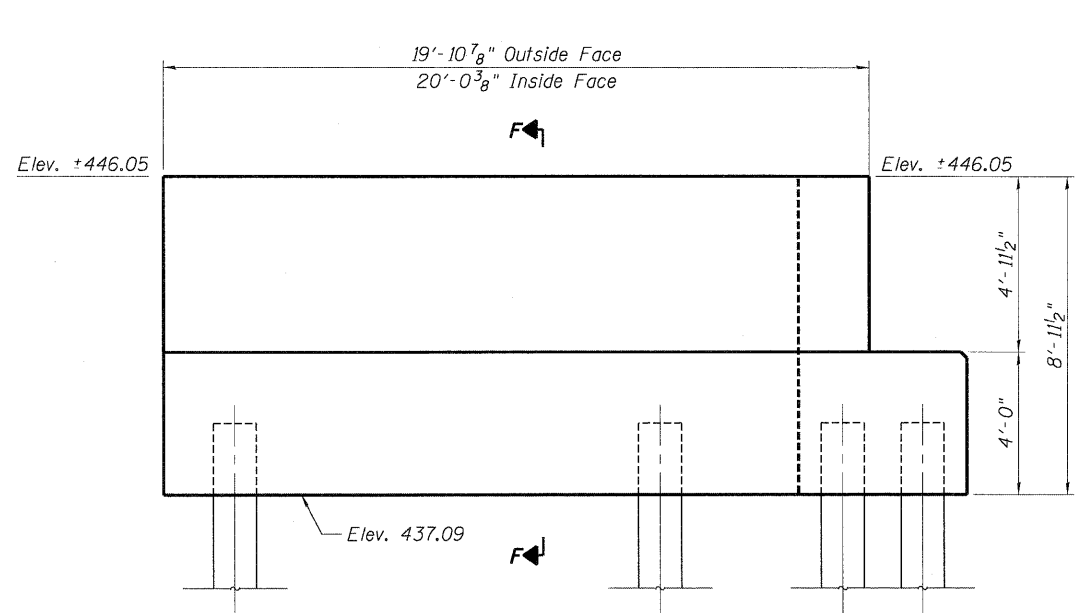
SOUTH ABUTMENT
ELEVATION & SECTIONS

FILE NAME =	USER NAME = *USER*	DESIGNED - MDJ	REVISED -
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TENG	PLOT DATE = *DATE#	CHECKED - JLR	REVISED -
		DATE - 05/13/11	REVISED -

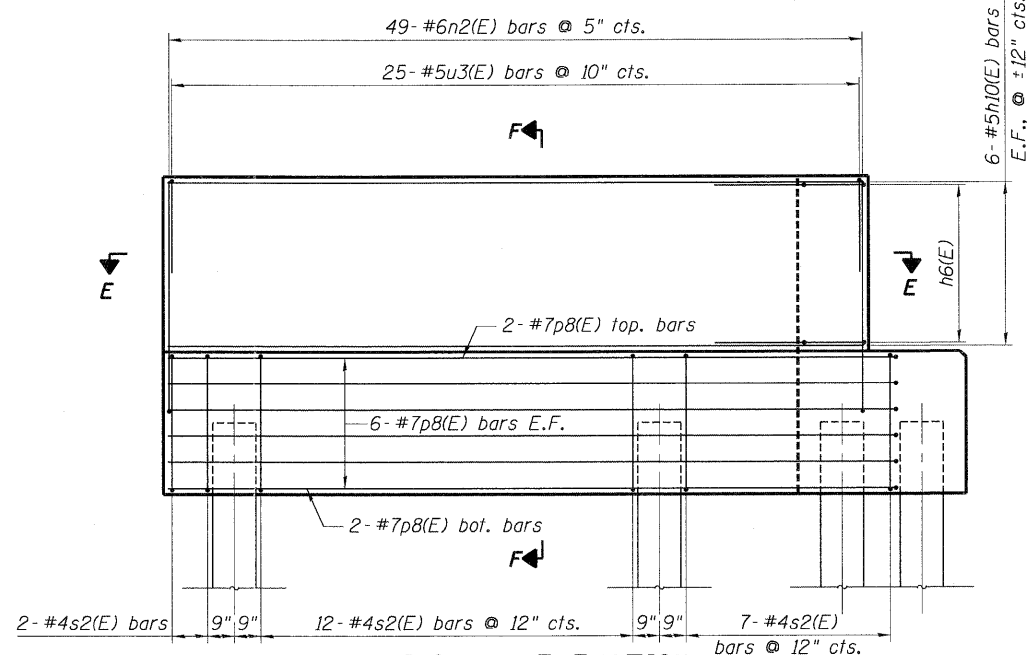
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

SCALE:	SHEET NO. SA-23 OF SA-57	STA. 1683+43.17 TO STA.
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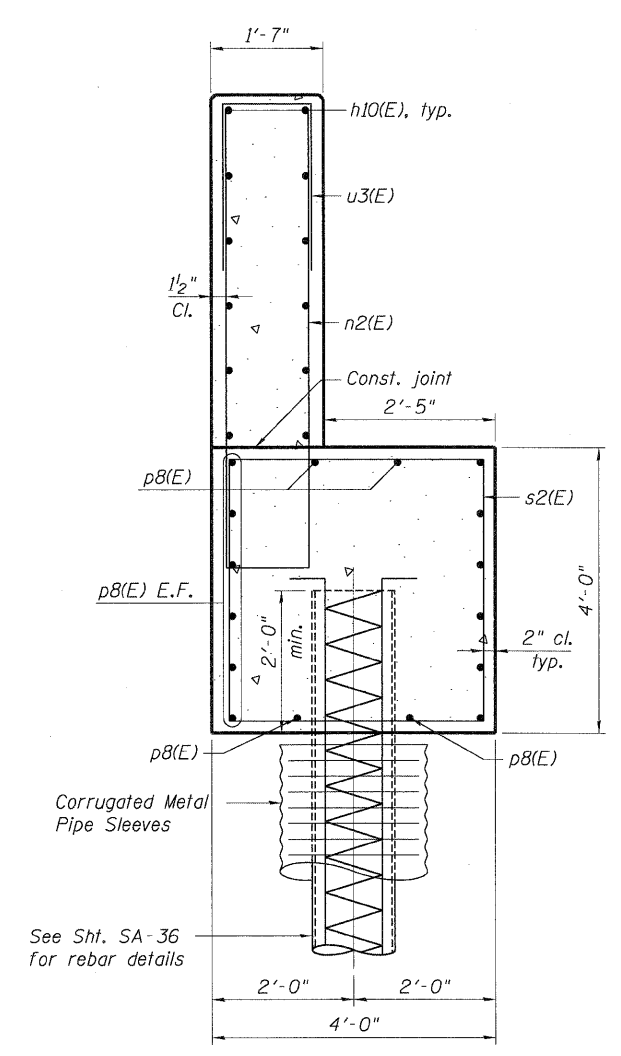
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HWB-1	ST. CLAIR	345	158
	SN 082-0328		CONTRACT NO. 76D05	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



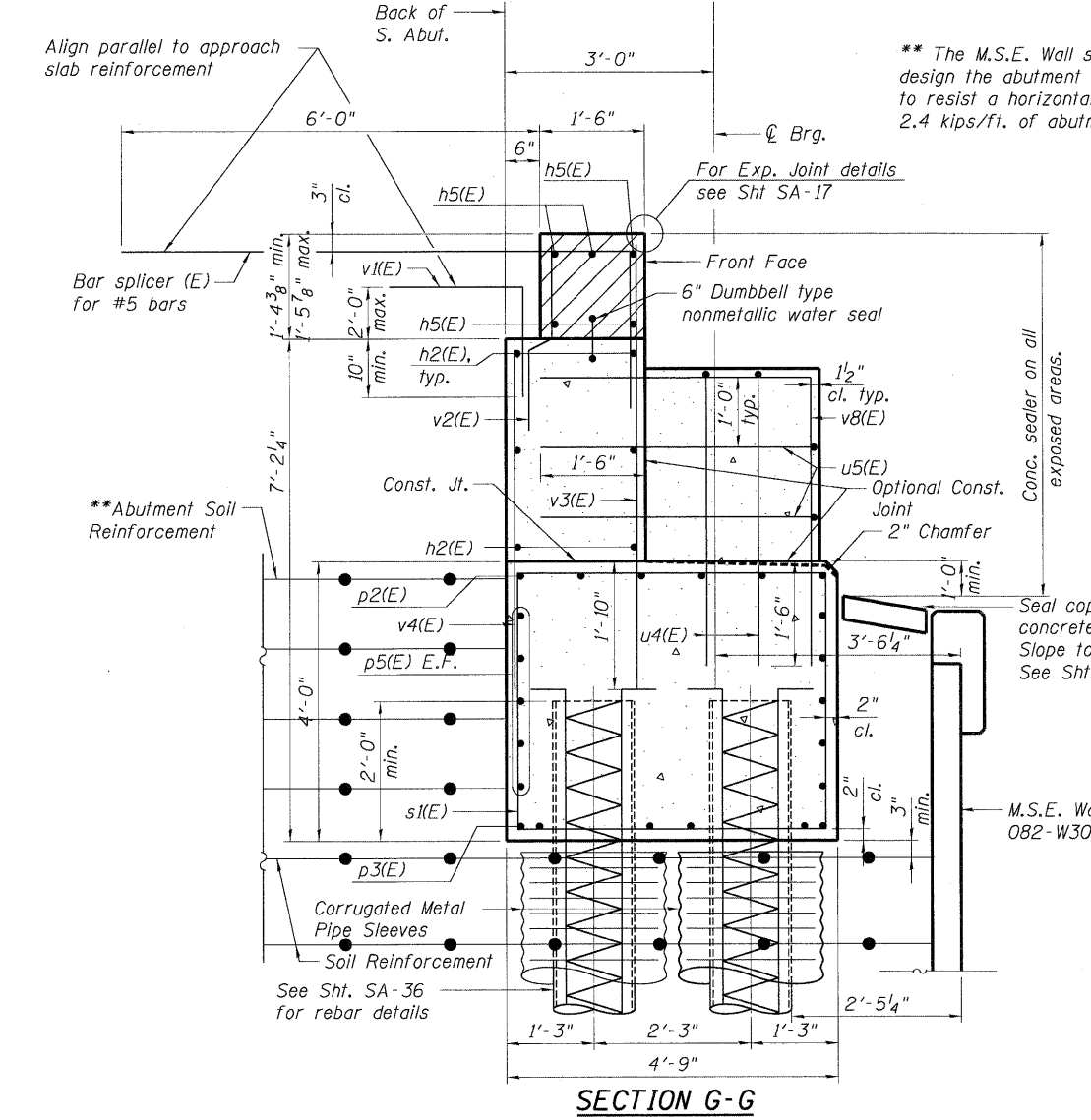
WINGWALL ELEVATION
(Looking West - Showing Dimensions)



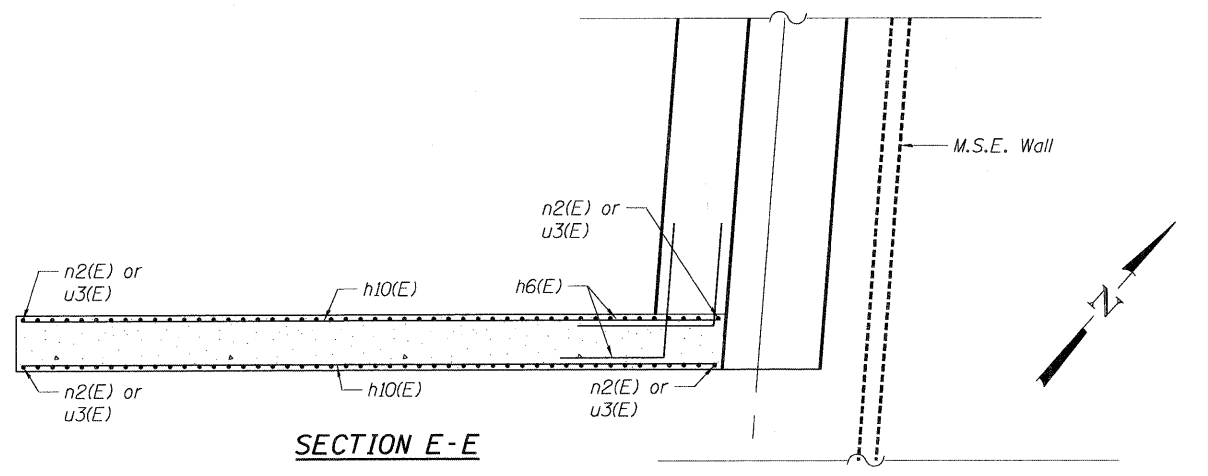
WINGWALL ELEVATION
(Looking West - Showing Reinforcement)



SECTION F-F



SECTION G-G



SECTION E-E

** The M.S.E. Wall supplier shall design the abutment soil reinforcement to resist a horizontal force of 2.4 kips/ft. of abutment

Conc. sealer on all exposed areas.

Seal coping with concrete and P.J.F. Slope to drain. See Sht. RA-3

FILE NAME = USER NAME = #USER# DESIGNED - REVISIONS - DRAWN - MKD REVISIONS - CHECKED - JLR REVISIONS - DATE - 05/13/11 REVISIONS -

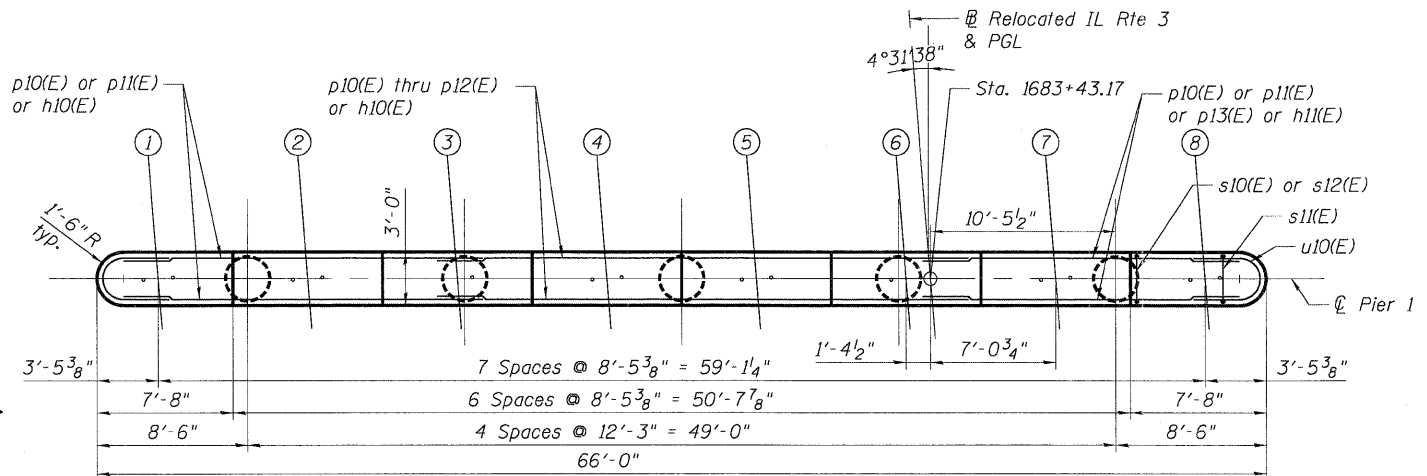


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 3 OVER 1-70

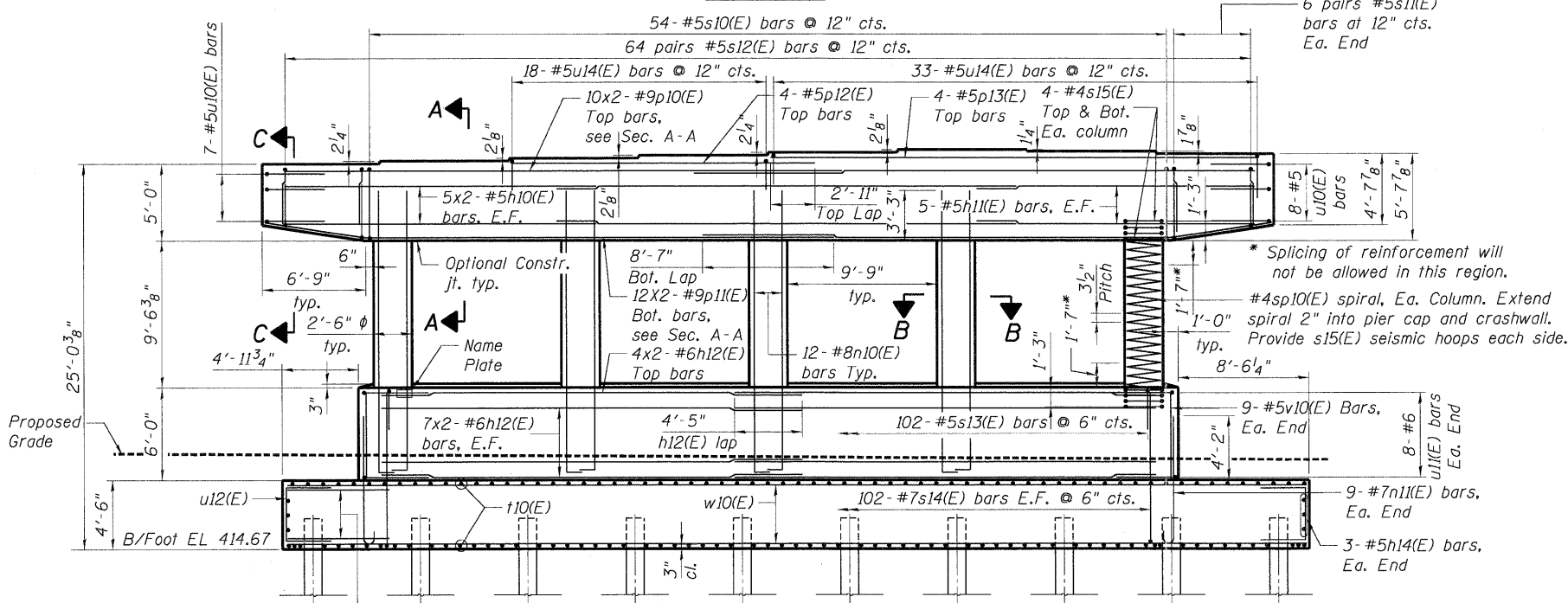
SOUTH ABUTMENT
EAST WINGWALL & DETAILS

SCALE: SHEET NO. SA-24 OF SA-57 STA. 1683+43.17 TO STA.

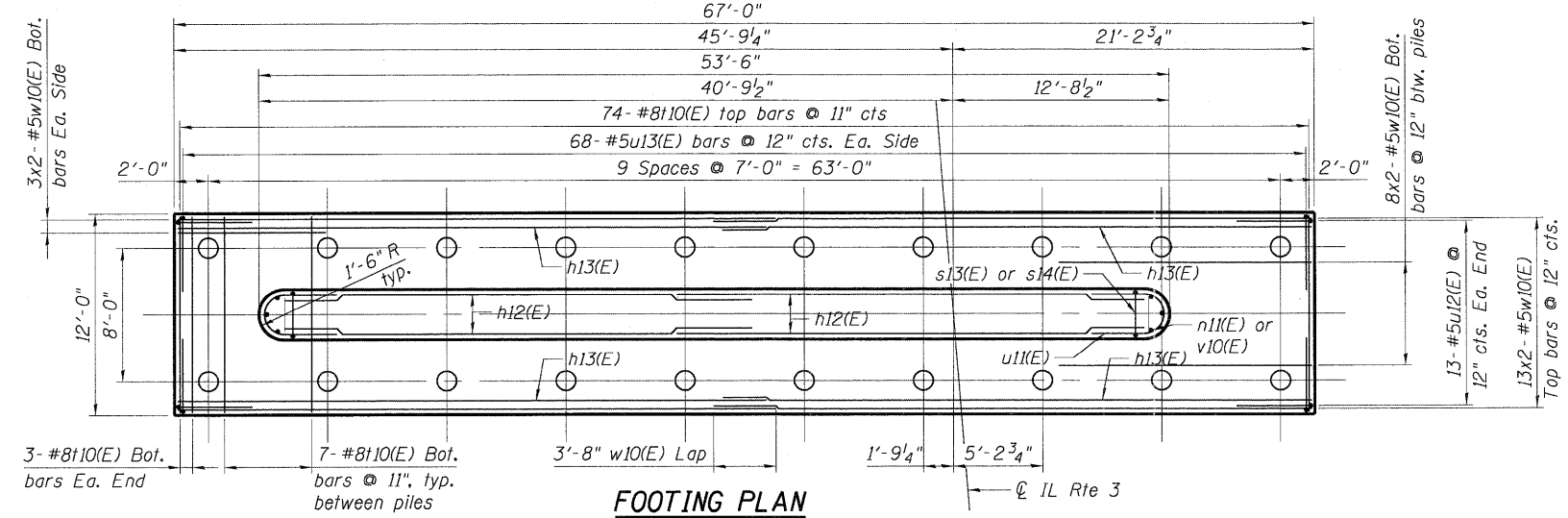
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	159
SN 082-0328			CONTRACT NO. 76D05	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



CAP PLAN



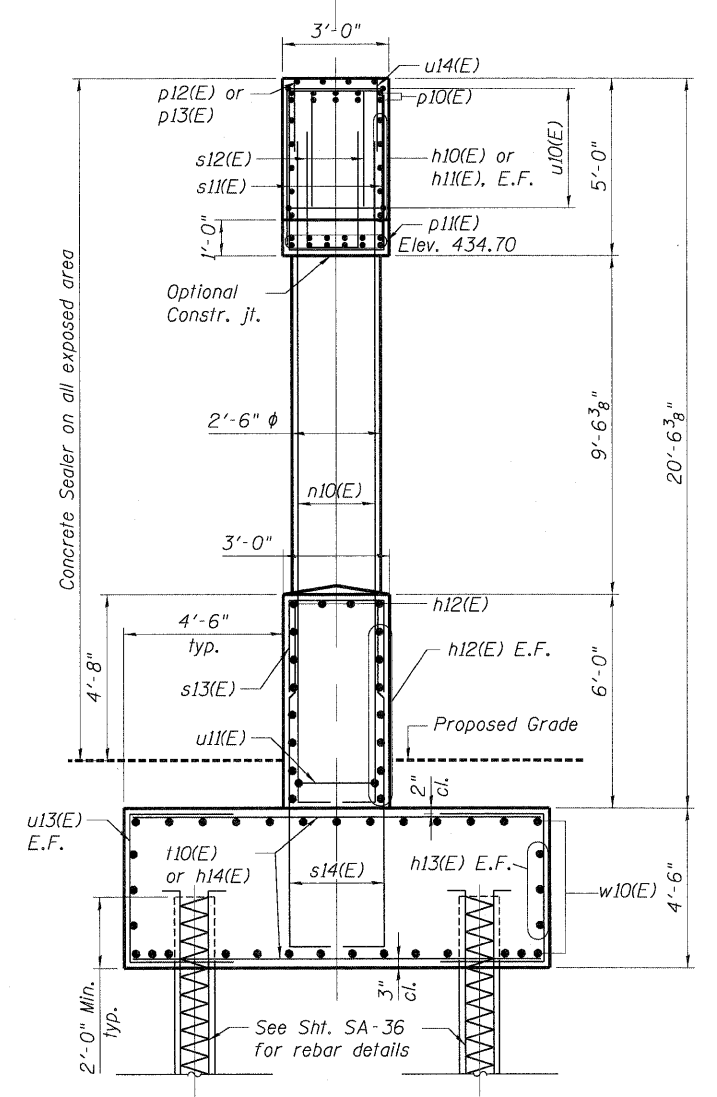
ELEVATION
(Looking North)



FOOTING PLAN

BEARING SEAT ELEVATIONS

Girder	Elevations
1	439.70
2	439.89
3	440.07
4	440.25
5	440.44
6	440.62
7	440.52
8	440.36



END VIEW

MIN. LAP LENGTH
(Unless noted otherwise)

Bar Size	Lap
#5	2'-7"
#6	3'-1"
#9	9'-8"

PILE DATA

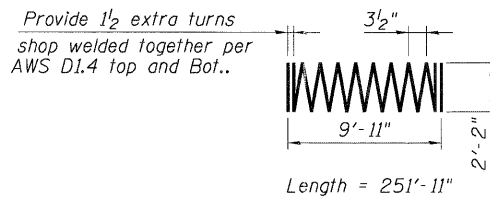
Type: MS14X0.25 Metal Shell Piles
 Nominal Required Bearing: 413 kips/pile
 Factored Resistance Available: 227 kips/pile
 Est. Length: 83 ft
 No. Production Piles: 19
 No. Test Piles: 1

NOTES:

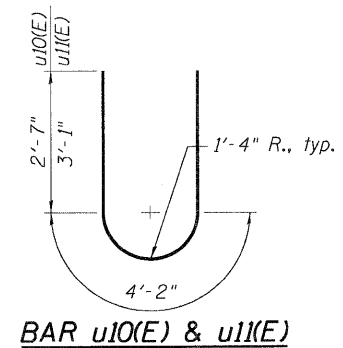
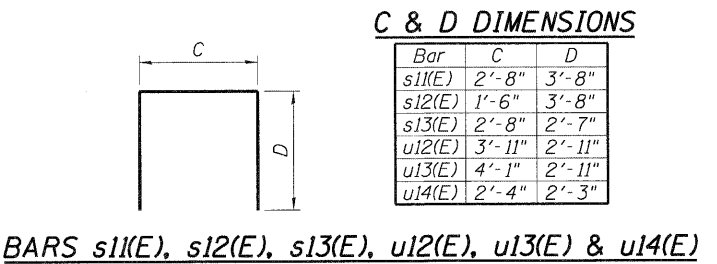
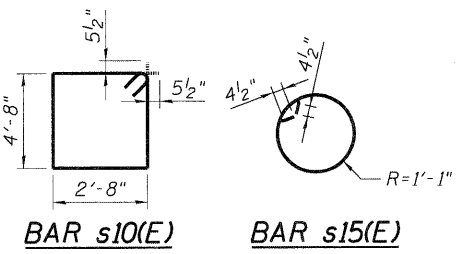
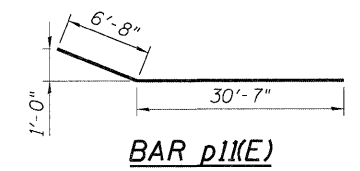
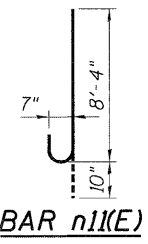
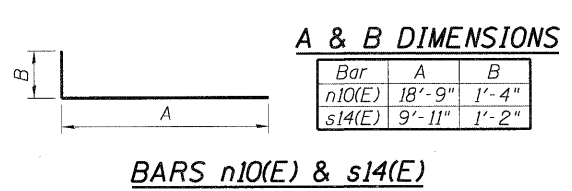
- Space reinforcement in cap to miss anchor bolts.
- Four steps monolithically with cap.
- For details of piles, see sheet SA-36.
- E.F. indicates each face.
- Bars indicated thus 5x3-#5 etc. indicates 5 lines of bars with 3 lengths per line.
- Space u12(E) & u13(E) bars to miss piles.
- When splicing of spiral reinforcement is necessary, the spirals shall be provided with 1/2 extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4, or shall both terminate with a 135° standard hook.

10/22/2010 10:01 AM C:\WORK\1001\PROJECTS\1001\PIER.DWG...
 5/11/2011 9:53:36 AM
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

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Length = 251'-11"
BAR sp10(E)
 (For information only - length calculated as continuous bar ignoring splices)



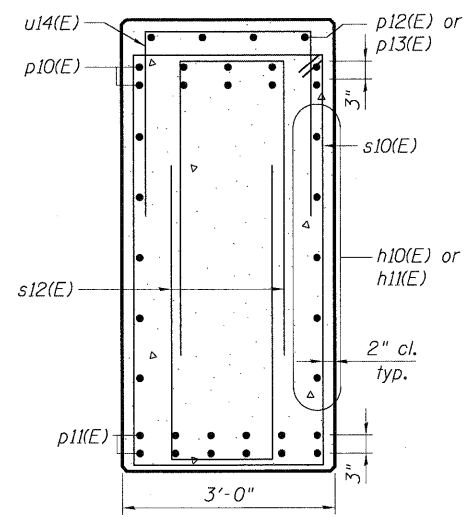
**PIER 1
 BAR LIST**

Bar	No.	Size	Length	Shape
h10(E)	20	#5	30'-0"	—
h11(E)	10	#5	8'-2"	—
h12(E)	36	#6	27'-6"	—
h13(E)	12	#5	34'-8"	—
h14(E)	6	#5	11'-8"	—
n10(E)	60	#8	20'-1"	⌋
n11(E)	18	#7	9'-2"	⌋
p10(E)	20	#9	36'-4"	—
p11(E)	24	#9	37'-3"	—
p12(E)	4	#5	19'-10"	—
p13(E)	4	#5	31'-4"	—
s10(E)	54	#5	15'-7"	□
s11(E)	24	#5	10'-0"	□
s12(E)	128	#5	8'-10"	□
s13(E)	102	#5	7'-10"	□
s14(E)	204	#7	11'-1"	⌋
s15(E)	40	#4	8'-4"	○
** sp10(E)	5	#4	9'-11"	~
t10(E)	143	#8	11'-8"	—
u10(E)	15	#5	9'-4"	⌋
u11(E)	16	#6	10'-4"	⌋
u12(E)	26	#5	9'-9"	□
u13(E)	136	#5	9'-11"	□
u14(E)	51	#5	6'-10"	□
v10(E)	18	#5	5'-10"	—
w10(E)	54	#5	35'-2"	—

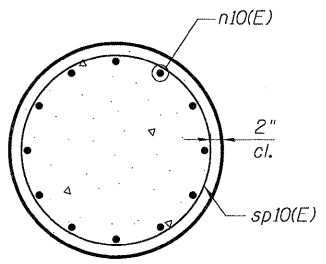
** Length is the height of the spiral

**PIER 1
 BILL OF MATERIAL**

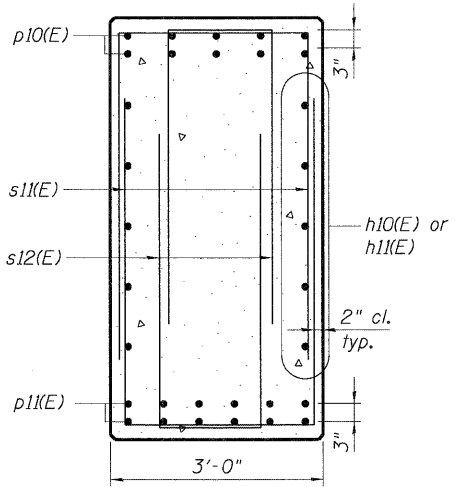
Item	Unit	Total
Concrete Structures	Cu. Yd.	218.7
Reinforcement Bars, Epoxy Coated	Pound	29,780
Furnishing Metal Shell Piles 14"x0.250"	Foot	1,577
Driving Piles	Foot	1,577
Test Pile Metal Shells	Each	1
Structure Excavation	Cu. Yd.	263
Concrete Sealer	Sq. Ft.	2,080
Name Plate	Each	1



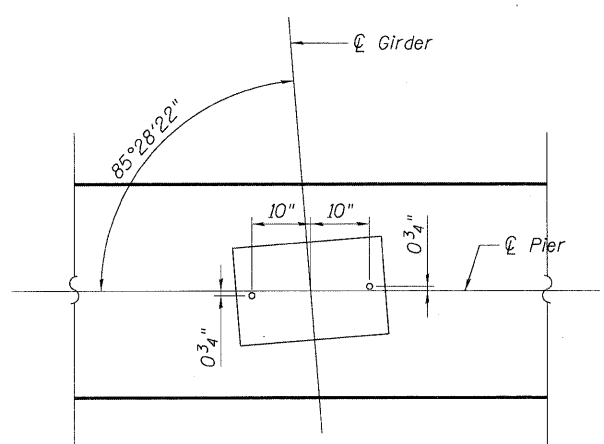
SECTION A-A



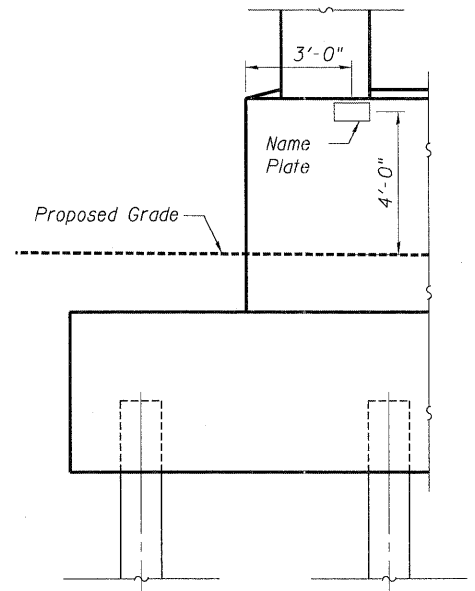
SECTION B-B



SECTION C-C



ANCHOR BOLT DETAIL
 See Sht. SA-21 for Anchor Bolt size and spacing



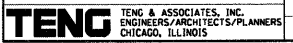
NAME PLATE DETAIL

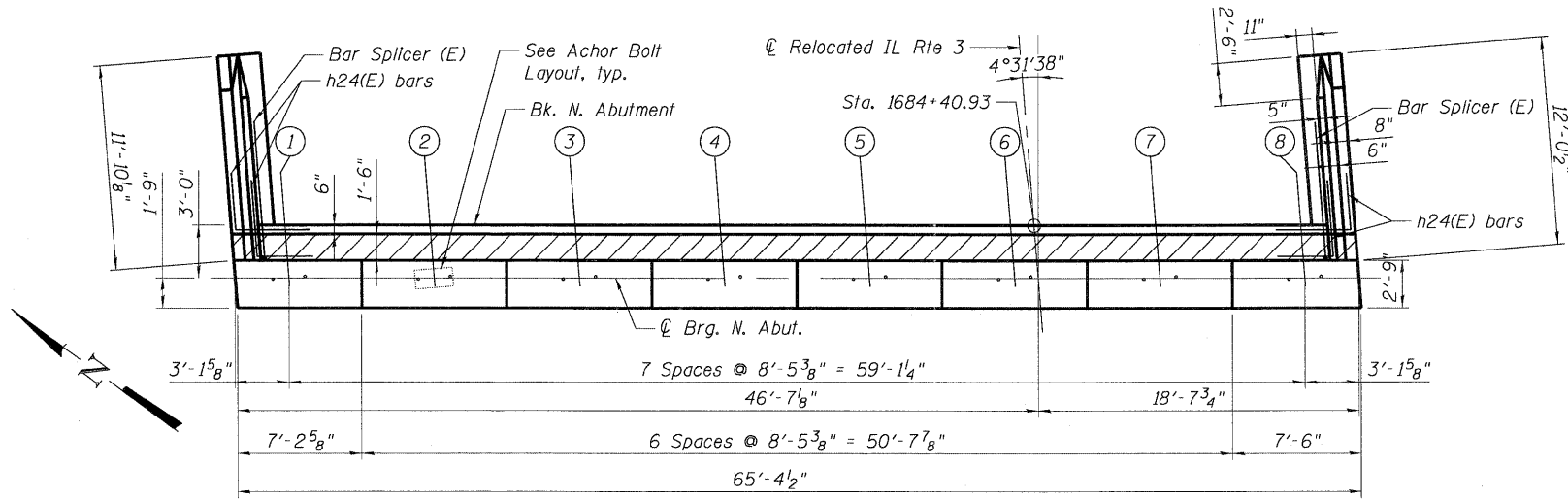
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#FILE#		DRAWN - MDJ	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 IL 3 OVER I-70**

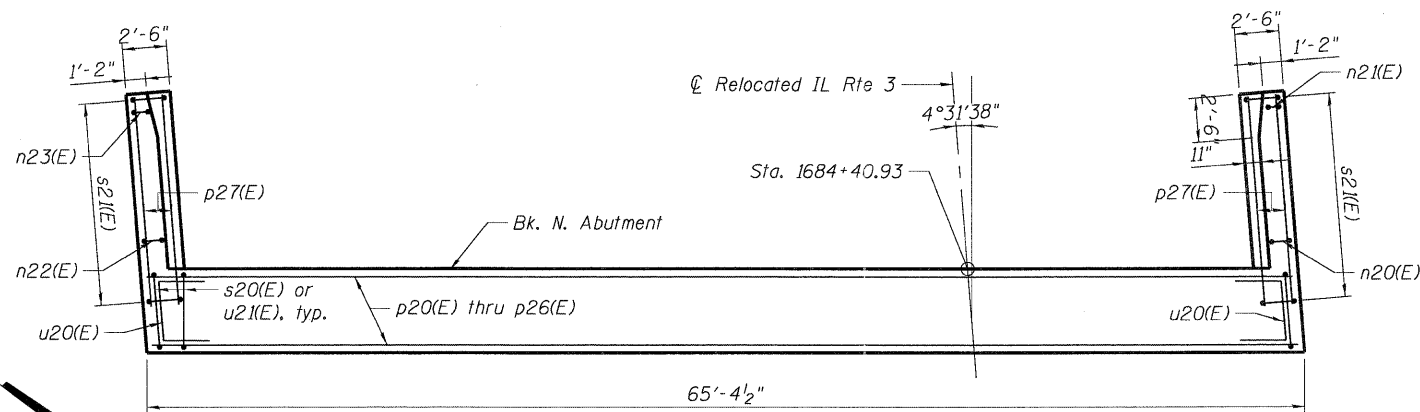
PIER 1 SECTIONS & DETAILS		
SCALE:	SHEET NO. SA-27 OF SA-57	STA. 1683+43.17 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	162
SN 082-0328			CONTRACT NO. 76D05	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

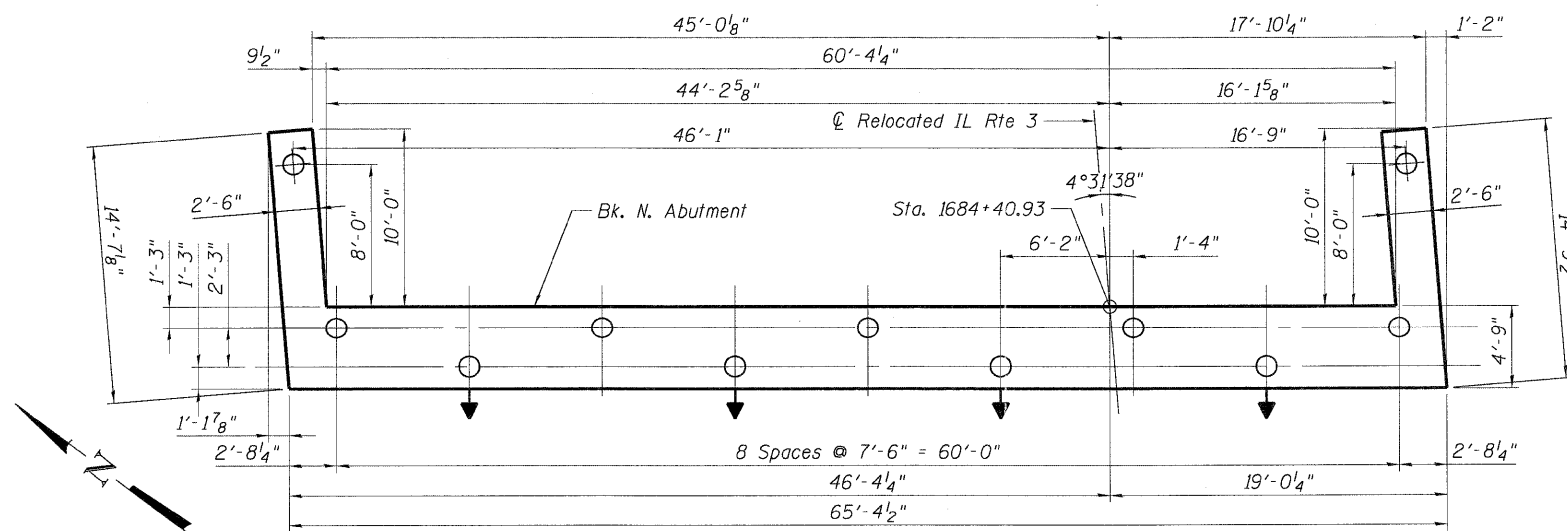




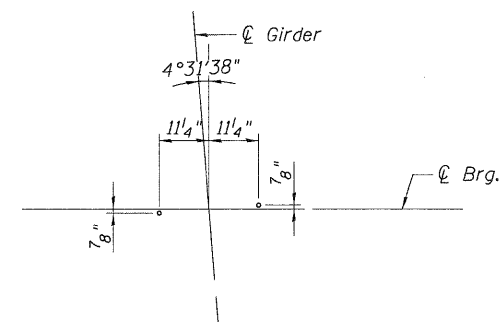
TOP VIEW



PLAN - NORTH ABUTMENT CAP



PILE LAYOUT - NORTH ABUTMENT



ANCHOR BOLT DETAIL
See Sht. SA-21 for Anchor Bolt size and spacing

BEARING SEAT ELEVATIONS

Girder	Elevations
1	437.11
2	437.30
3	437.49
4	437.68
5	437.87
6	438.05
7	437.96
8	437.81

PILE DATA

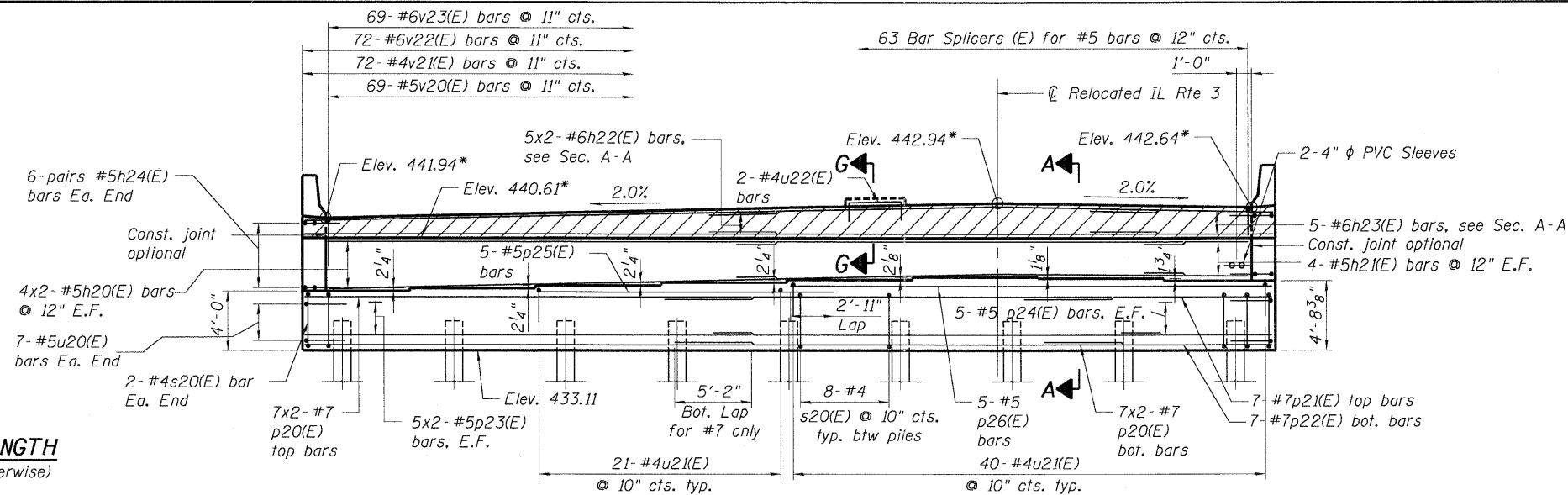
Type: MS14X0.25 Metal Shell Piles
 Nominal Required Bearing: 413 kips/pile
 Factored Resistance Available: 227 kips/pile
 Est. Length: 101 ft
 No. Production Piles: 10
 No. Test Piles: 1

NOTES:

- Hatched area of abutment backwall to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.
- For Anchor Bolt and Bearing details, see Sht. SA-21.
- ➔ Indicates battered pile.
- For details of piles, see Sht. SA-36.
- Space reinforcement in cap to miss anchor bolts.
- Pour steps monolithically with cap.

982828.DWG - 10-22-11 - 10:54:43 AM - 982828.DWG - 10-22-11 - 10:54:43 AM - 982828.DWG - 10-22-11 - 10:54:43 AM
 FILENAME: 982828.DWG USER: JLR DESIGNED: MDJ CHECKED: JLR DATE: 05/13/11
 TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS
 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER I-70
 NORTH ABUTMENT PLAN & PILE LAYOUT
 SCALE: SHEET NO. SA-28 OF SA-57 STA. 1683+43.17 TO STA.

FILE NAME: 982828.DWG #FILE#	USER NAME: JLR	DESIGNED: MDJ DRAWN: MDJ CHECKED: JLR DATE: 05/13/11	REVISED: REVISED: REVISED: REVISED:	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER I-70	NORTH ABUTMENT PLAN & PILE LAYOUT		F.A.P. RTE. 998	SECTION 82-2-1HVB-1	COUNTY ST. CLAIR	TOTAL SHEETS 345	SHEET NO. 163
PLOT SCALE: #SCALE#		PLOT DATE: #DATE#			SCALE:	SHEET NO. SA-28 OF SA-57	STA. 1683+43.17 TO STA.	SN 082-0328		CONTRACT NO. 76D05	
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS								FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

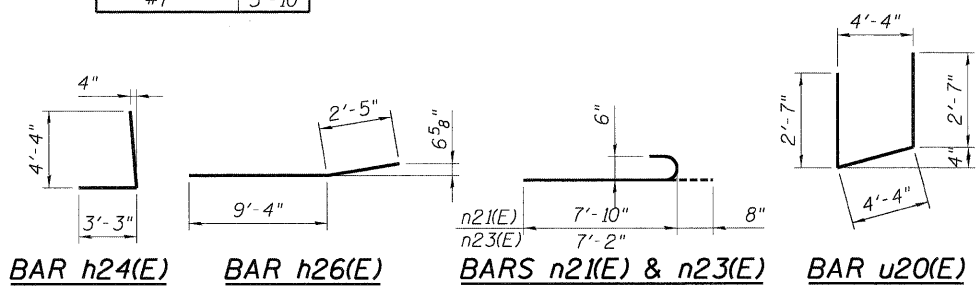


MIN. LAP LENGTH
(Unless noted otherwise)

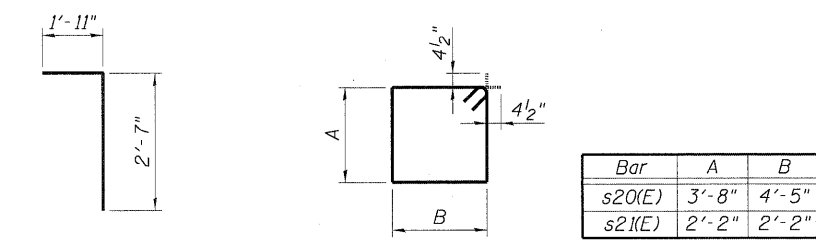
Bar Size	Lap
#5	2'-7"
#6	4'-5"
#7	5'-10"

ELEVATION
(Looking North)

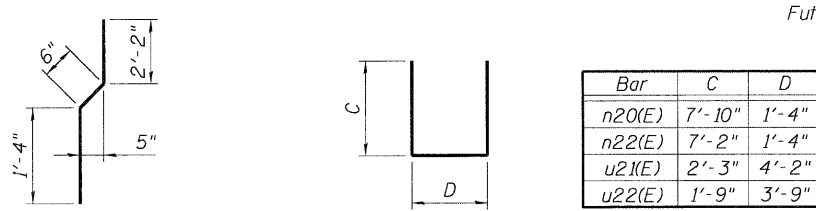
*Elevations @ Front Face of Backwall



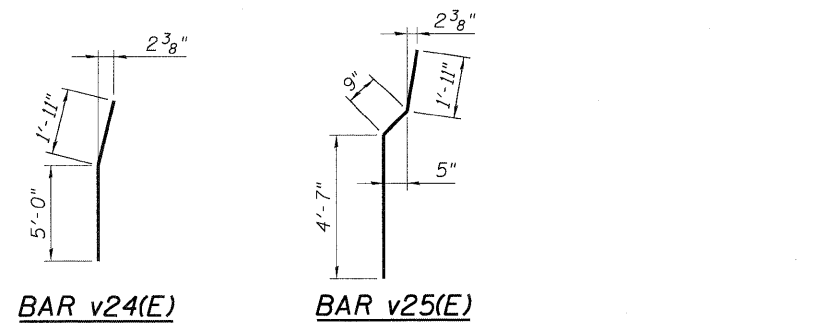
BAR h24(E) **BAR h26(E)** **BARS n21(E) & n23(E)** **BAR u20(E)**



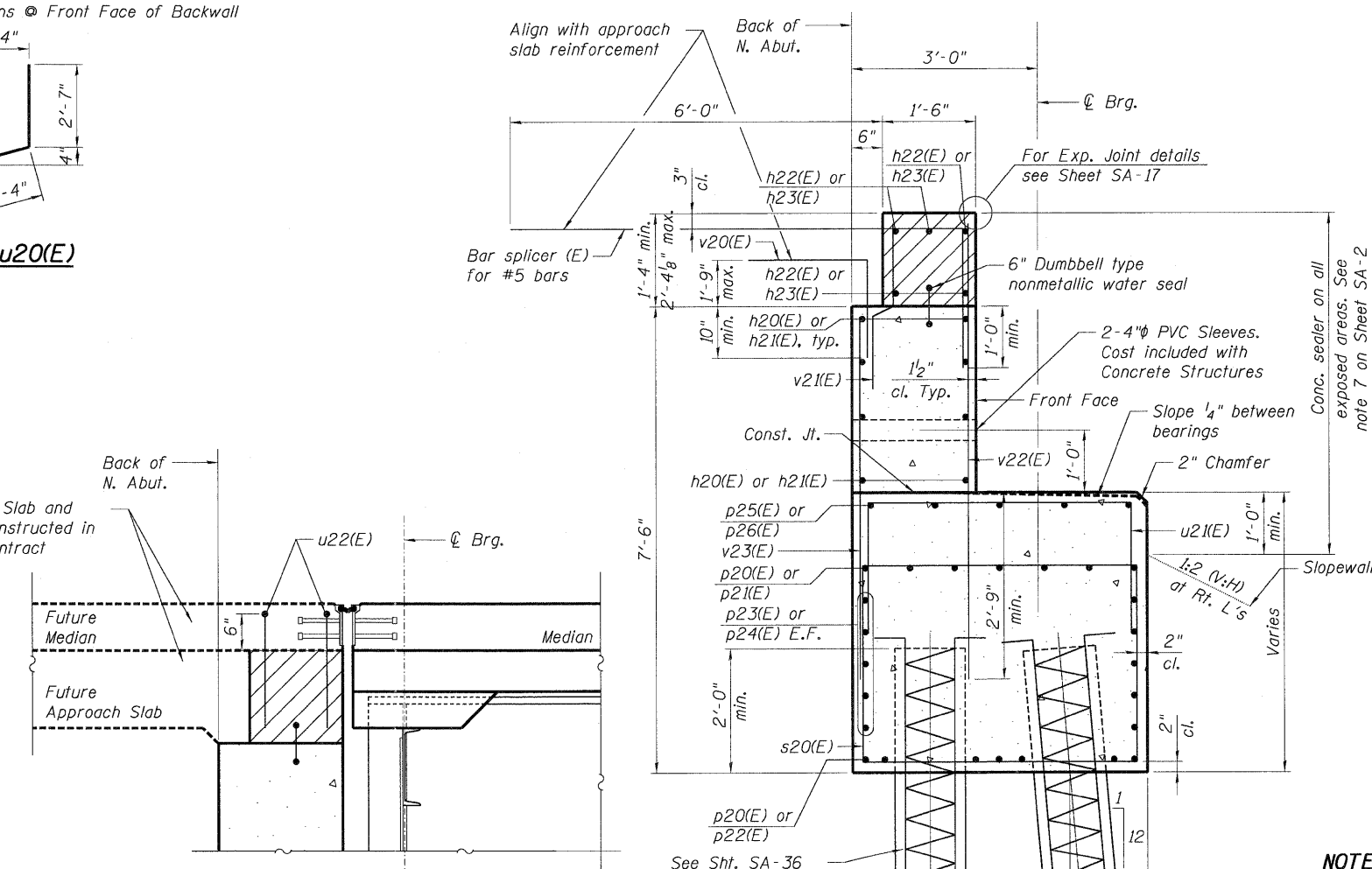
BAR v20(E) **BARS s20(E) & s21(E)**



BAR v21(E) **BARS n20(E), n22(E), u21(E), & u22(E)**



BAR v24(E) **BAR v25(E)**



SECTION G-G

SECTION A-A

NORTH ABUTMENT BAR LIST

Bar	No.	Size	Length	Shape
h20(E)	16	#5	30'-0"	—
h21(E)	8	#5	7'-0"	—
h22(E)	10	#6	30'-0"	—
h23(E)	5	#6	13'-10"	—
h24(E)	24	#5	7'-7"	└
h25(E)	28	#5	11'-8"	—
h26(E)	20	#5	11'-9"	—
n20(E)	14	#6	17'-0"	└
n21(E)	8	#6	8'-6"	└
n22(E)	14	#6	15'-8"	└
n23(E)	8	#6	7'-10"	└
p20(E)	28	#7	30'-0"	—
p21(E)	7	#7	16'-9"	—
p22(E)	7	#7	15'-5"	—
p23(E)	20	#5	30'-0"	—
p24(E)	10	#5	10'-3"	—
p25(E)	5	#5	19'-10"	—
p26(E)	5	#5	32'-6"	—
p27(E)	24	#6	11'-10"	—
s20(E)	68	#4	16'-11"	└
s21(E)	24	#4	9'-5"	└
u20(E)	14	#5	9'-6"	└
u21(E)	61	#4	8'-8"	└
u22(E)	2	#4	7'-3"	└
v20(E)	69	#5	4'-6"	└
v21(E)	72	#4	4'-0"	└
v22(E)	72	#6	7'-6"	└
v23(E)	69	#6	6'-1"	└
v24(E)	8	#6	6'-11"	└
v25(E)	28	#6	7'-3"	└
v26(E)	36	#5	6'-7"	└

For details of Bar Splicers, see sheet SA-32
For details of piles, see sheet SA-36

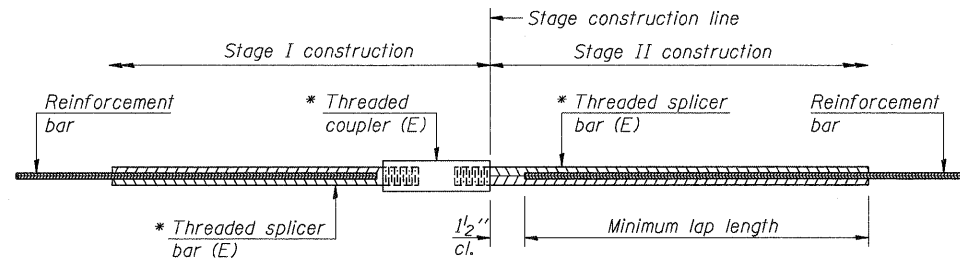
NORTH ABUTMENT BILL OF MATERIALS

Item	Unit	Total
Concrete Structures	Cu. Yd.	90.3
Reinforcement Bars, Epoxy Coated	Pound	10,400
Furnishing Metal Shell Piles 14"x0.250"	Foot	1,010
Driving Piles	Foot	1,010
Test Pile Metal Shells	Each	1
Structure Excavation	Cu. Yd.	179
Concrete Sealer	Sq. Ft.	601

- NOTES:**
1. Bars indicated thus 5x3-#5 etc. indicates 5 lines with 3 lengths per line.
 2. E.F. indicates each face.
 3. The exposed end of v20(E) bars are to be protected. The unused half of the abutment bar splicers to be incorporated into the approach slab are to be stored by the Contractor at a location as directed by the Engineer.

FILE NAME = ... USER NAME = #USER# ... DESIGNED - MDJ ... REVISIONS ... DATE - 05/13/11 ... STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION ... NORTH ABUTMENT ELEVATION & SECTION ... SHEET NO. 164 ... CONTRACT NO. 76005

TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	USER NAME = #USER# PLOT SCALE = #SCALE# PLOT DATE = #DATE#	DESIGNED - MDJ DRAWN - MDJ CHECKED - JLR DATE - 05/13/11	REVISIONS REVISIONS REVISIONS REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER I-70	NORTH ABUTMENT ELEVATION & SECTION	F.A.P. RTE. 998 SECTION 82-2-1HVB-1 COUNTY ST. CLAIR TOTAL SHEETS 345 SHEET NO. 164	STA. 1683+43.17 TO STA. SHEET NO. SA-29 OF SA-57 CONTRACT NO. 76005
	SCALE:		SHEET NO. SA-29 OF SA-57		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



STANDARD BAR SPLICER ASSEMBLY

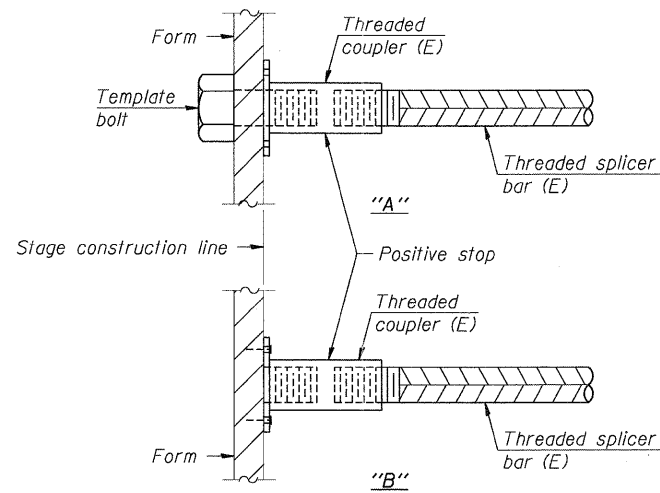
Bar size to be spliced	Minimum Lap Lengths				
	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Top bar lap, Class B

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

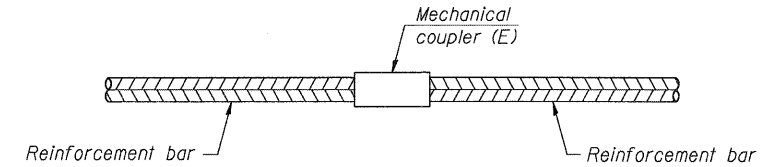
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



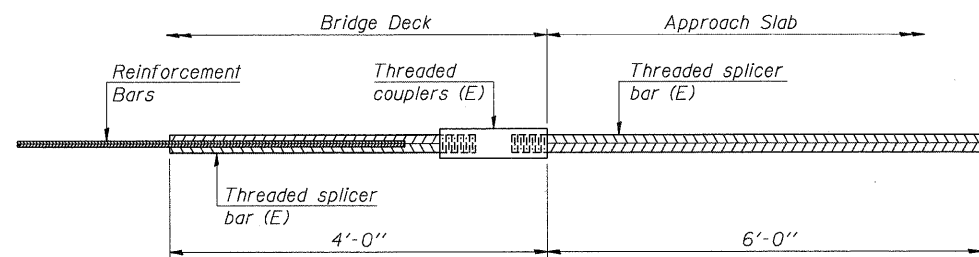
INSTALLATION AND SETTING METHODS

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



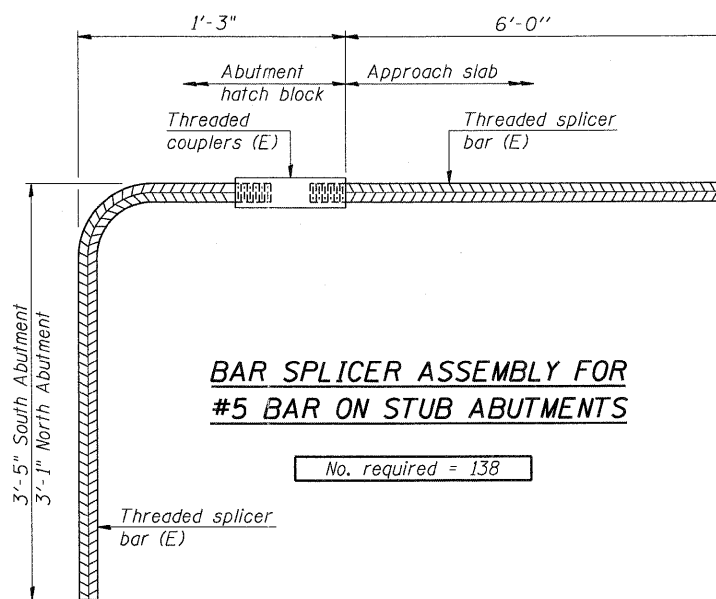
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 138

NOTES:

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

5:11:2011 9:53:59 5:11:2011 9:53:59 \S:\STRUCT\CAD\01\DESIGN\0820328\SHEET\0820328_CONN_1P_001_SIT-MS.DGN
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BSD-1

7-1-10

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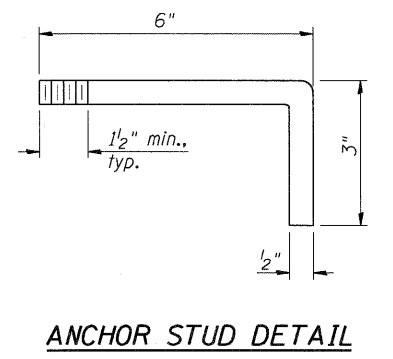
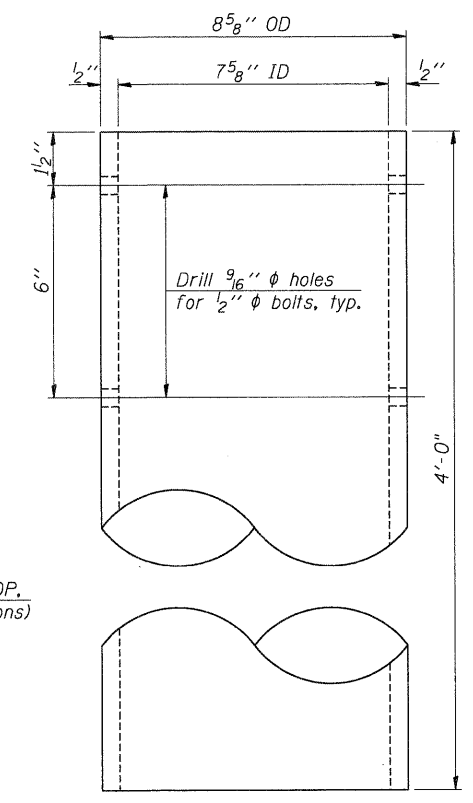
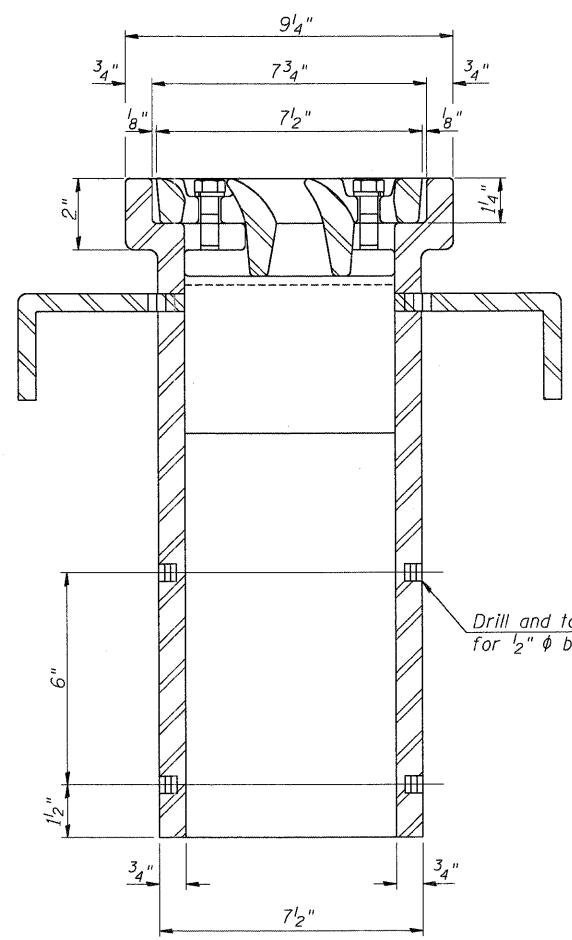
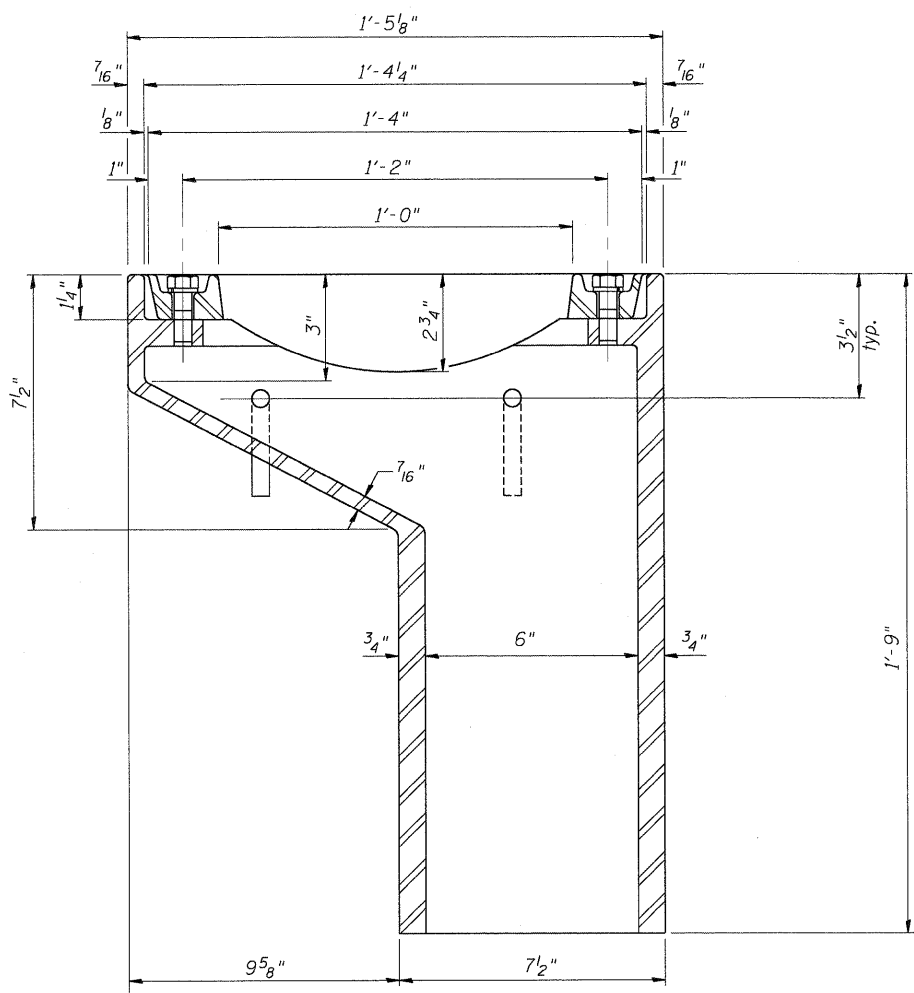
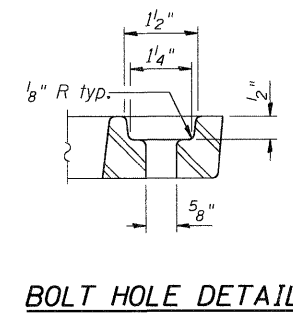
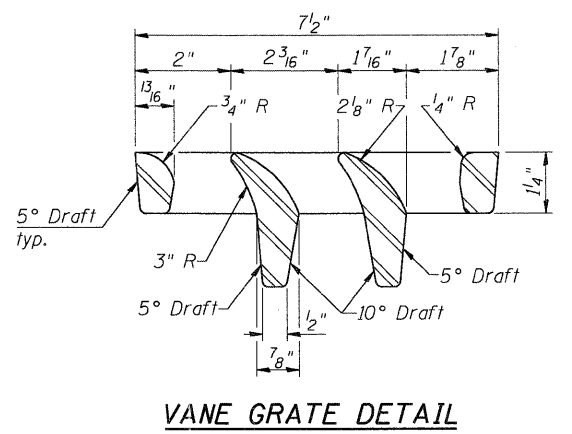
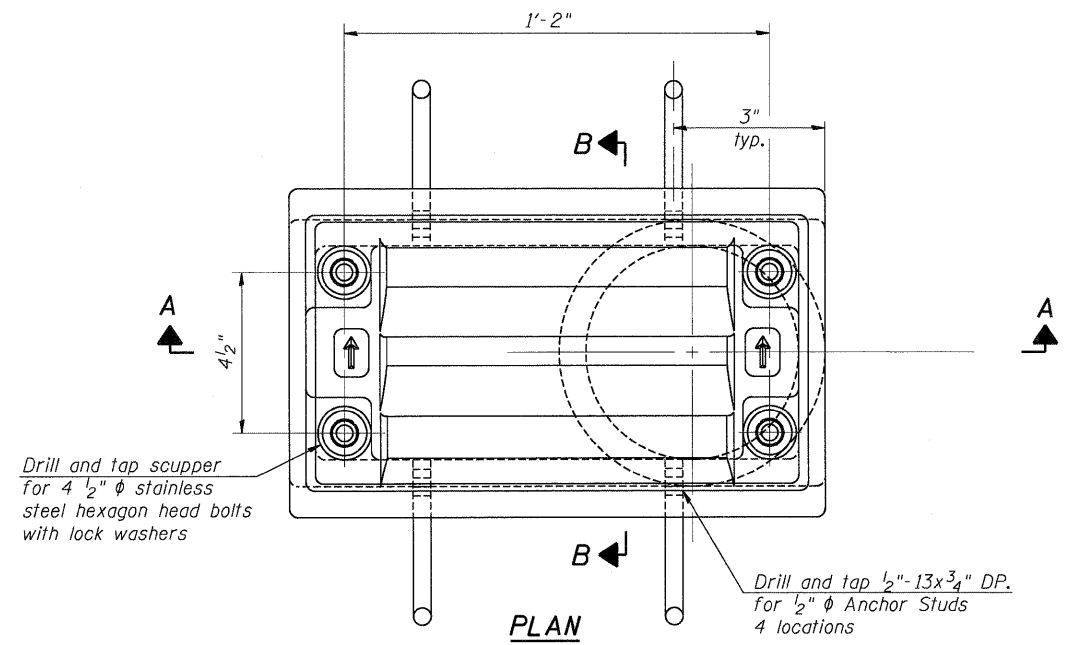
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 3 OVER I-70

BAR SPLICER DETAILS

SCALE: SHEET NO. SA-32 OF SA-57 STA. 1683+43.17 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	167
SN 082-0328		CONTRACT NO. 76D05		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
 Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
 Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.
 As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.
 Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	4

\PFS\0044\ANVAULT.I.D\TRANS.07\2202\200668-08\STRUCT\CAD\01\DESIGN\0820328\0820328-COMM-1P-004-SHT-MS.DGN
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 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

DS-11

7-1-10

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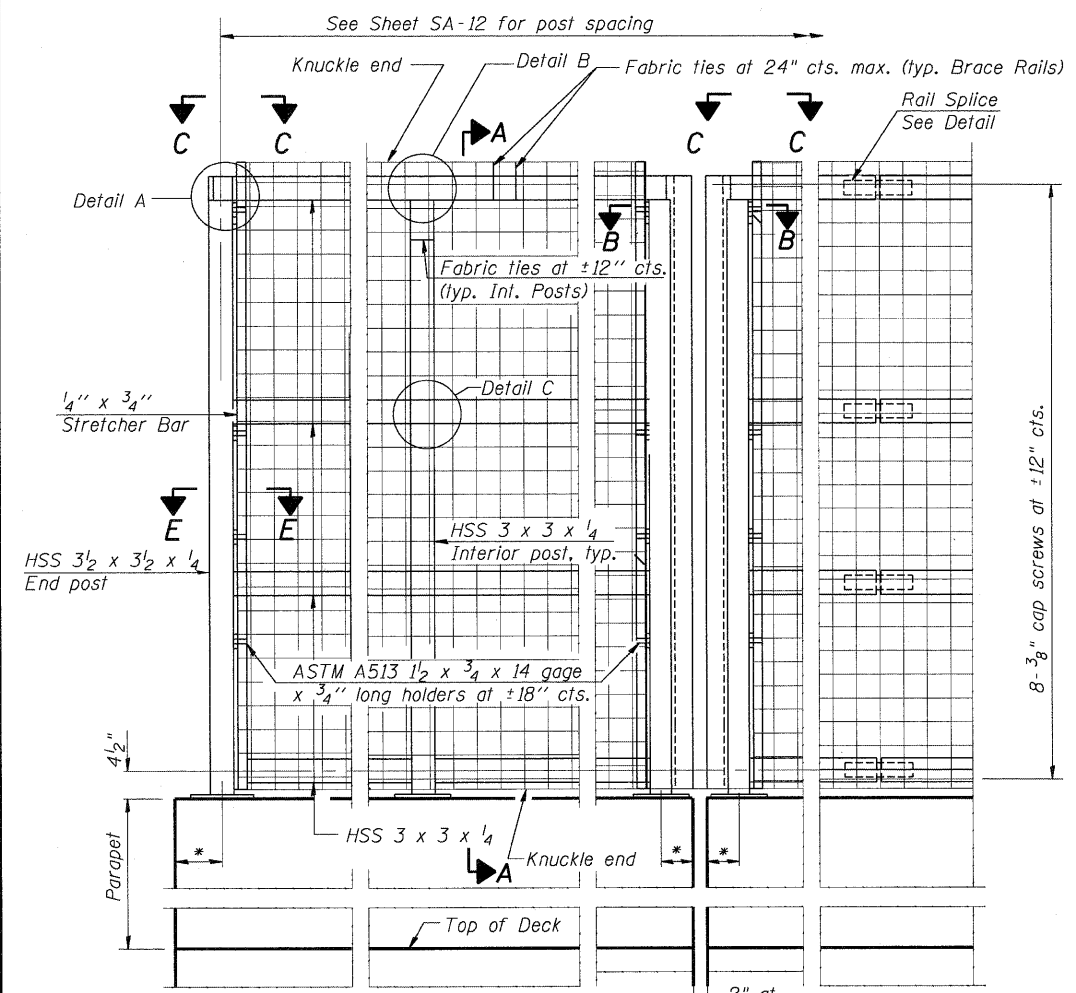
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 IL 3 OVER I-70

DRAINAGE SCUPPER, DS-11

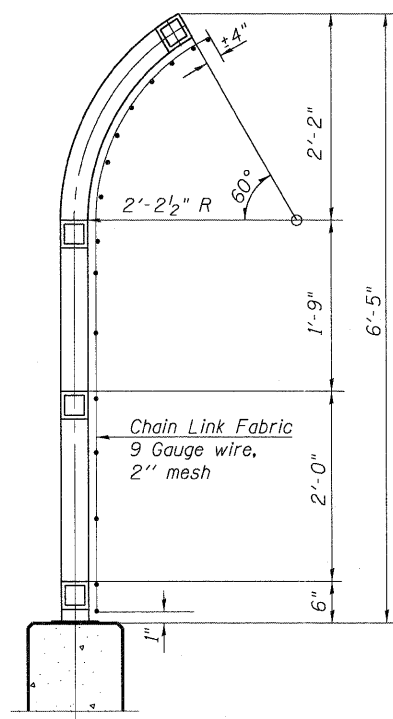
SCALE: SHEET NO. SA-33 OF SA-57 STA. 1683+43.17 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	168
SN 082-0328		CONTRACT NO. 76D05		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

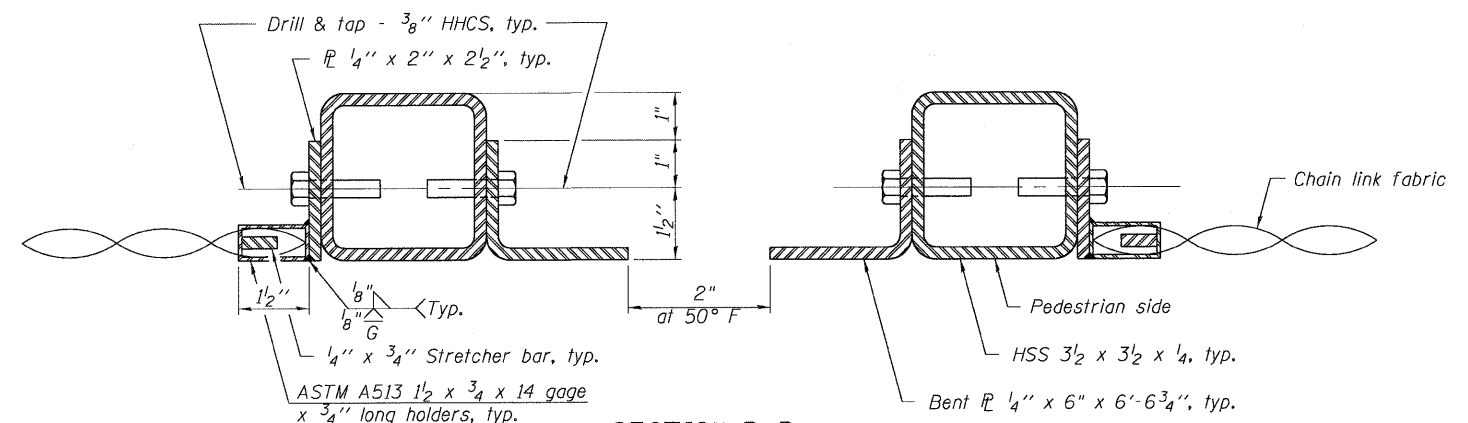
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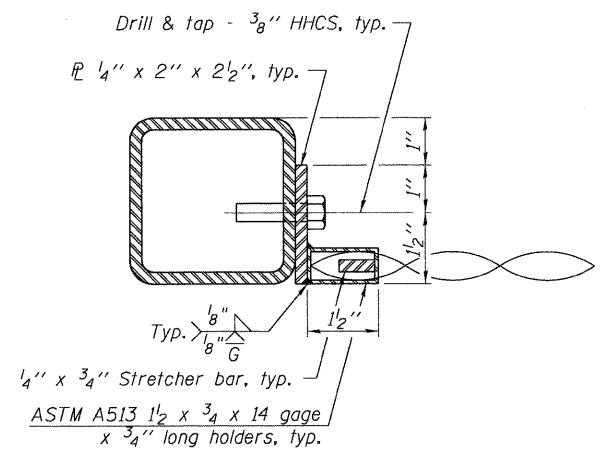
ELEVATION
(Inside Face)



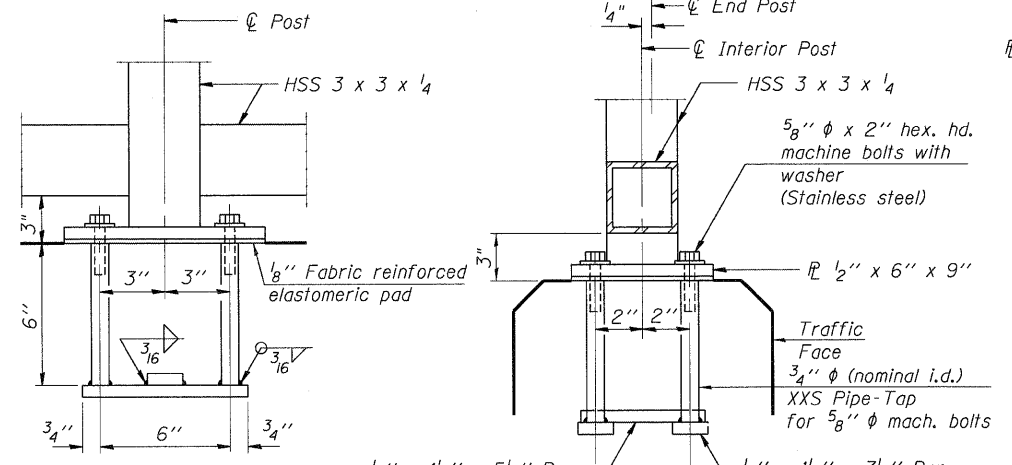
SECTION A-A



SECTION B-B
(At Expansion Joint)

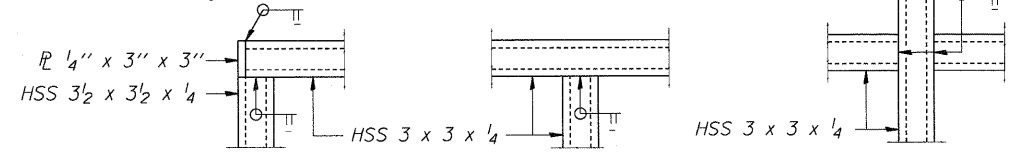


SECTION E-E

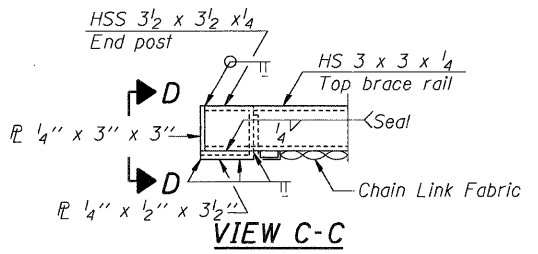


ANCHOR BOLT DETAILS

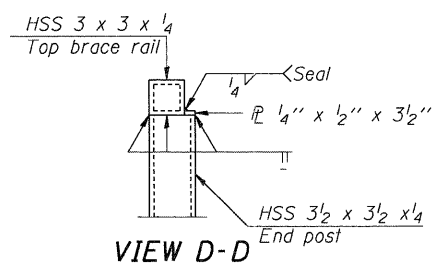
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



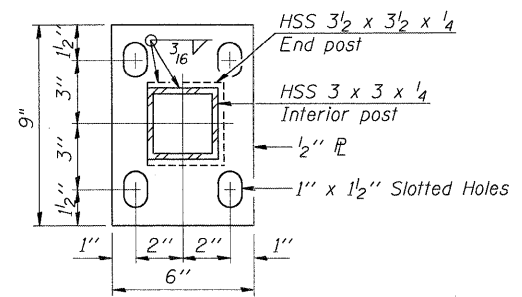
DETAIL A DETAIL B DETAIL C



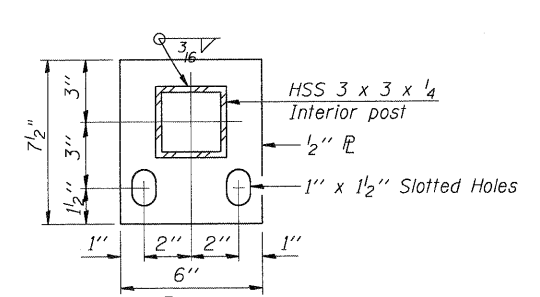
VIEW C-C



VIEW D-D



BASE P



BASE P AT PIER

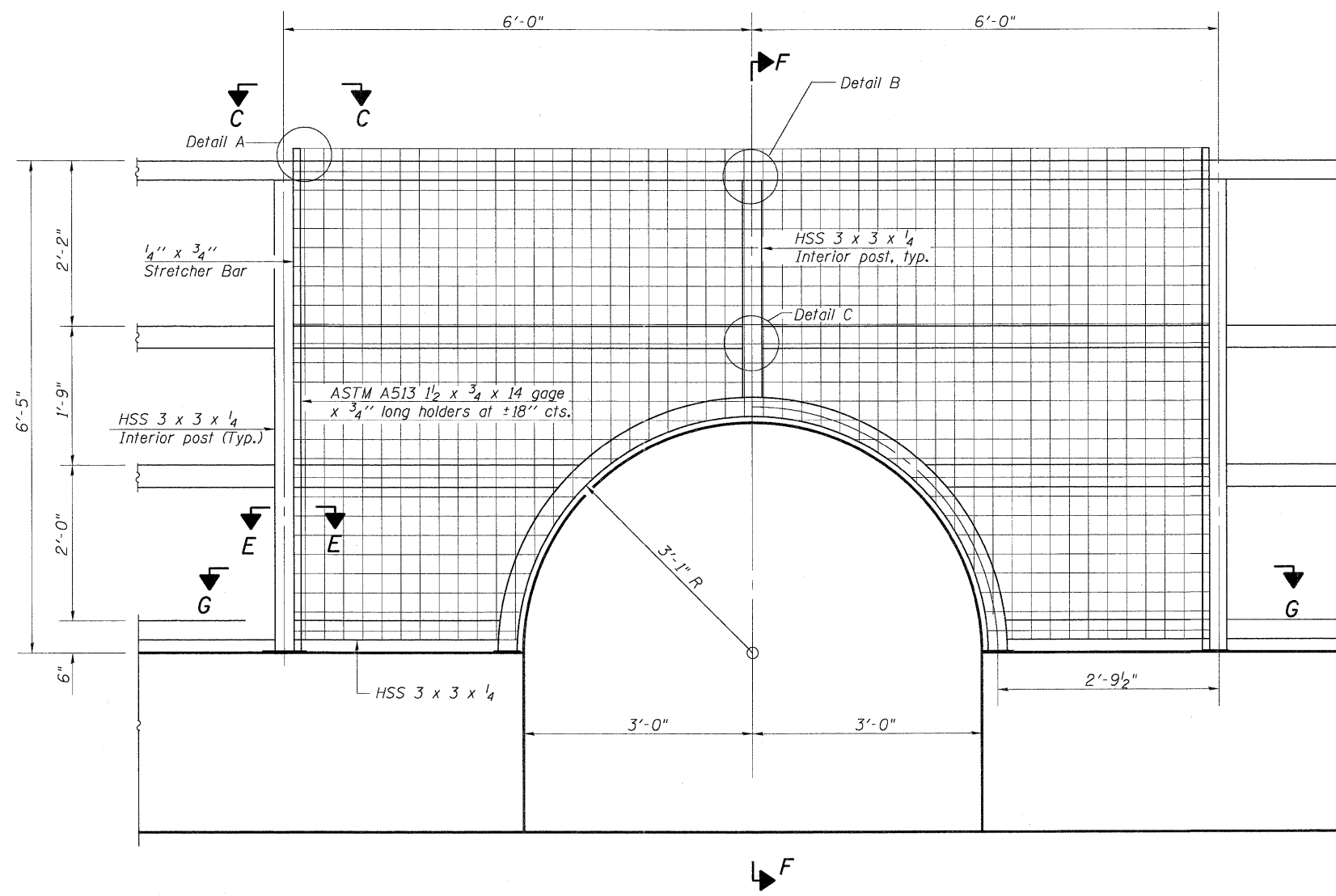
NOTE:

All post, railing, splices, anchor devices and plates shall be painted using the DuPont Imron 2.1 HG High Gloss Polyurethane (Includes Mix Quality "VF") or approved equal. The color of the final finish coat shall be Black.

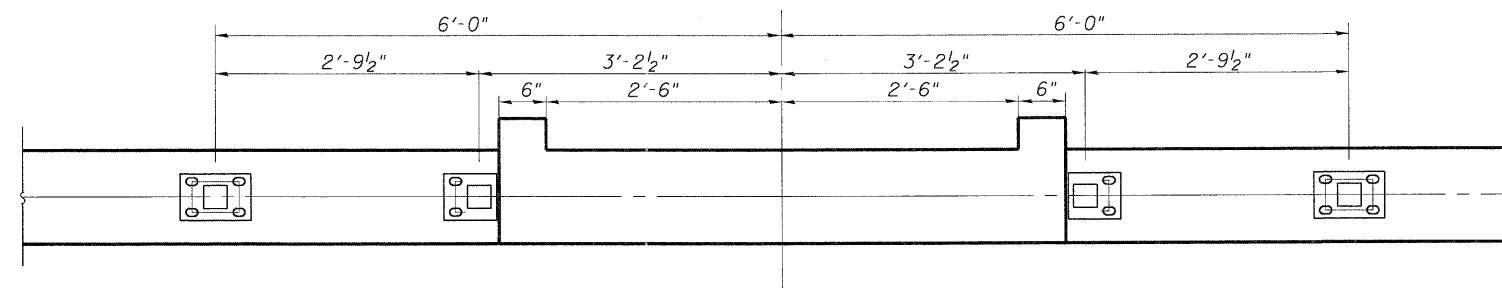
BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing	Foot	397

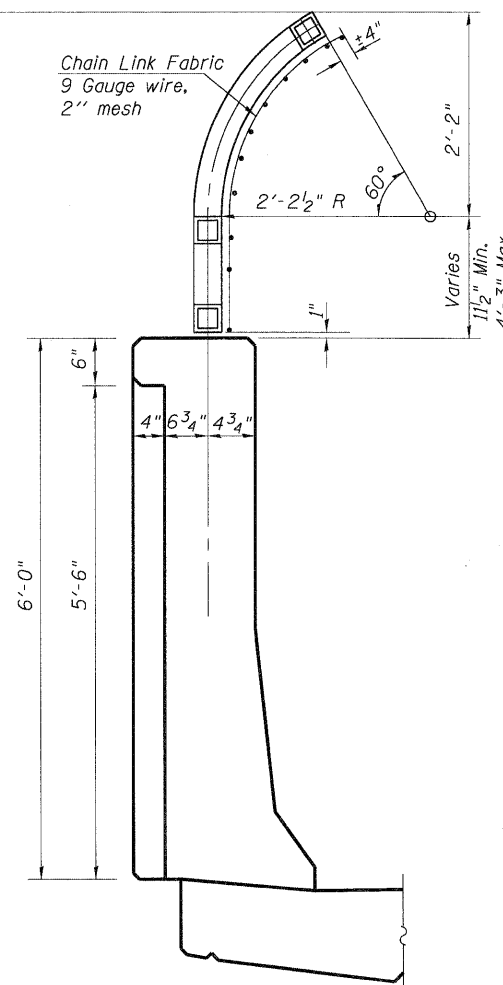
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ELEVATION AT PIER



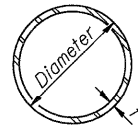
SECTION G-G



SECTION F-F

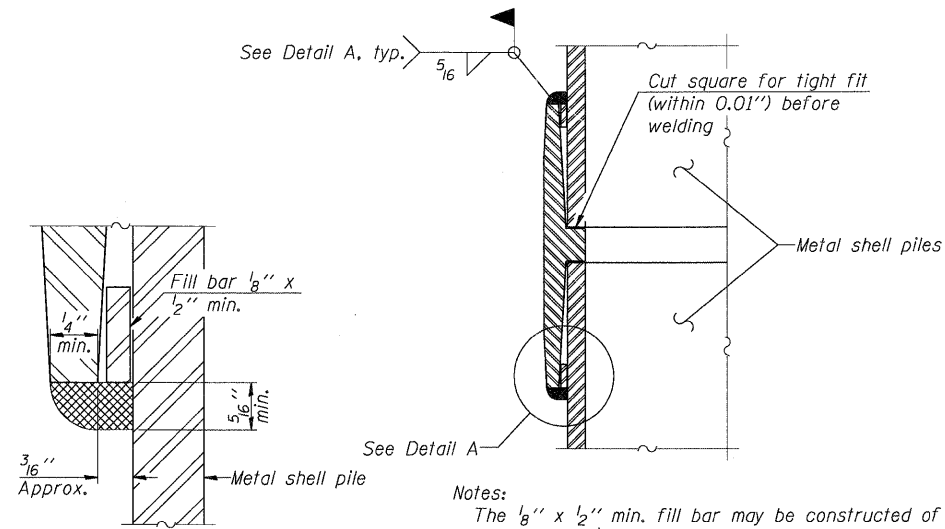
NOTE:
For fence and railing details and sections see Sheet SA-34.

FILE NAME #	USER NAME # USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			BRIDGE FENCE RAILING DETAILS 2 OF 2				
#FILE#		DRAWN - TCG	REVISED -	IL 3 OVER I-70 SCALE: SHEET NO. SA-35 OF SA-57 STA. 1683+43.17 TO STA.			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - JLR	REVISED -				998	82-2-1HVB-1	ST. CLAIR	345	170
PLOT SCALE # SCALE*		DATE - 05/13/11	REVISED -				SN 082-0328 CONTRACT NO. 76D05 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



METAL SHELL PILE TABLE

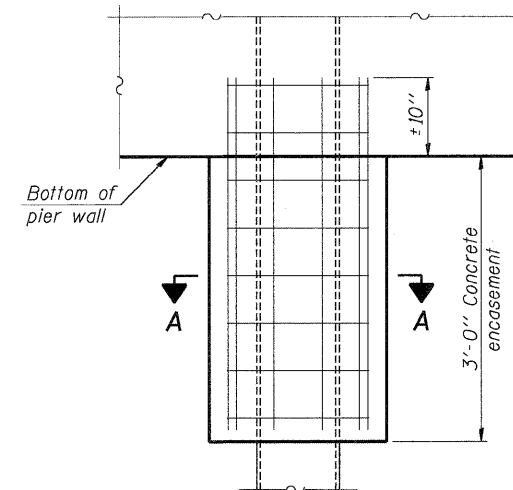
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



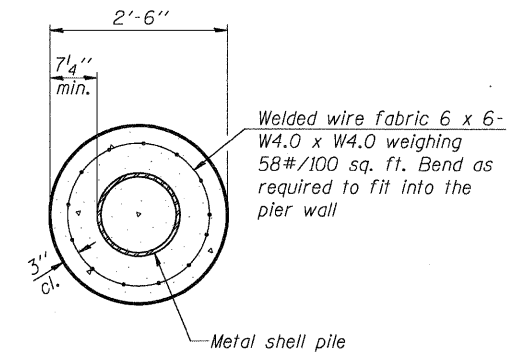
DETAIL A

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.

WELDED COMMERCIAL SPLICE



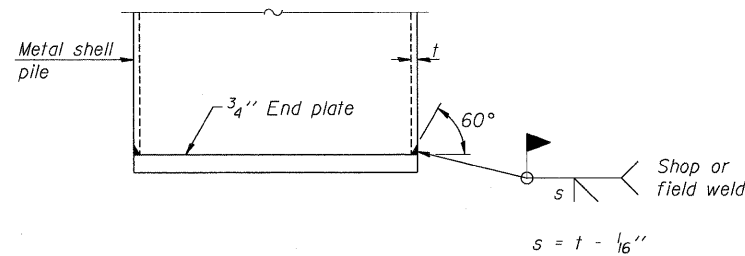
ELEVATION



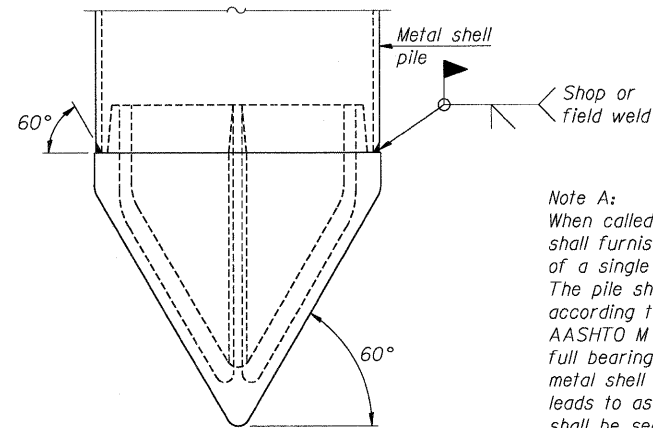
SECTION A-A

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

CONCRETE ENCASEMENT



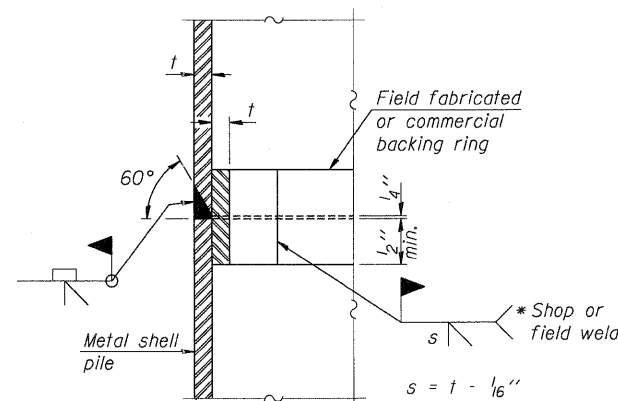
END PLATE ATTACHMENT



METAL SHELL PILE SHOE ATTACHMENT

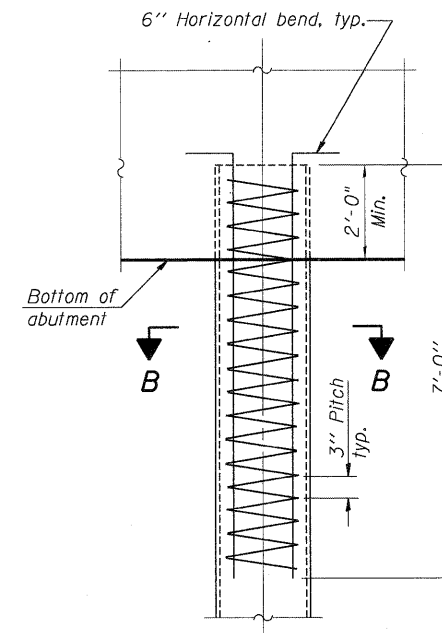
(See Note A)

Note A:
 When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.

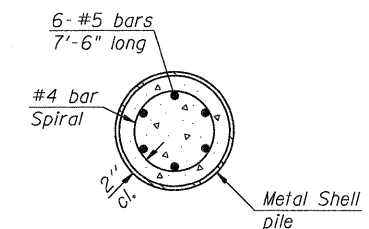


COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

METAL SHELL REINFORCEMENT AT ALL SUBSTRUCTURES

Note:
 The metal shell piles shall be according to ASTM A 252 Grade 3.

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FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER I-70	METAL SHELL PILE DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = #DATE#	DATE - 05/13/11	REVISED -		SCALE:	SHEET NO. SA-36 OF SA-57	STA. 1683+43.17 TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			



SB-109

SB-109

SB-109

SOIL BORING LOG		PAGE 1 of 4
		DATE 5/11-12/2009
		LOGGED BY DR
		GSI JOB No. 08201
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08		
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3		
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic		
STRUCT. NO. 082-W309	Surface Water Elev. n/a	DEPTH (ft) (inches) (pcf) (%)
Station: --	Stream Bed Elev. n/a	
BORING NO. SB-109	Groundwater Elevation:	
Station: 24+26	First Encounter n/a	
Offset: 37.5' Right	Upon Completion n/a	
Ground Surface Elev. 415.9	After 24 Hrs. n/a	
CINDERS-block-loose (Fill)	SANDY LOAM-brown-very loose to loose (A-2/A-3)	2 2 1 NP 31
412.9	392.9	
SILTY CLAY-brown-stiff (A-6) Wet		4 4 4 NP 24
410.4		
SILTY LOAM-brown-loose (A-4)	SAND-brown-loose to dense (A-3)	10 10 NP 25
405.4		
SILTY CLAY-brown-very soft (A-7) Wet		16 20 18 NP 23
402.9		
SILTY LOAM-brown-very loose to loose (A-4)		9 10 9 NP 25
397.9		
SANDY LOAM-brown-very loose to loose (A-2/A-3)		5 4 4 NP 25
20 2 NP 27		

SOIL BORING LOG		PAGE 2 of 4
		DATE 5/11-12/2009
		LOGGED BY DR
		GSI JOB No. 08201
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08		
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3		
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic		
STRUCT. NO. 082-W309	Surface Water Elev. n/a	DEPTH (ft) (inches) (pcf) (%)
Station: --	Stream Bed Elev. n/a	
BORING NO. SB-109	Groundwater Elevation:	
Station: 24+26	First Encounter n/a	
Offset: 37.5' Right	Upon Completion n/a	
Ground Surface Elev. 415.9	After 24 Hrs. n/a	
SAND-brown-loose to dense (A-3)		375.4
SANDY LOAM-gray-loose (A-2)	SANDY LOAM-gray-medium dense (A-2)	6 8 9 NP 27
372.9	350.4	
SAND-brown-medium dense (A-3)		7 8 10 NP 24
365.4		
SANDY LOAM-gray-medium dense (A-2)	SAND-gray-loose to medium dense (A-3)	7 4 3 NP 24
	337.9	
SAND & GRAVEL-brown & gray-medium dense (A-1)		13 9 8 NP 9

SOIL BORING LOG		PAGE 3 of 4
		DATE 5/11-12/2009
		LOGGED BY DR
		GSI JOB No. 08201
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08		
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3		
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic		
STRUCT. NO. 082-W309	Surface Water Elev. n/a	DEPTH (ft) (inches) (pcf) (%)
Station: --	Stream Bed Elev. n/a	
BORING NO. SB-109	Groundwater Elevation:	
Station: 24+26	First Encounter n/a	
Offset: 37.5' Right	Upon Completion n/a	
Ground Surface Elev. 415.9	After 24 Hrs. n/a	
SAND & GRAVEL-brown & gray-medium dense (A-1)	SAND-brown & gray-very dense (A-3)	14 10 7 NP 16
332.9	312.9	
SAND-brown & gray-medium dense to dense (A-3)	SAND & GRAVEL-brown & gray-very dense (A-1)	14 15 12 NP 13
	50/5"	
	50/5"	
307.9		
SAND with GRAVEL-brown & gray-very dense (A-1-b)	SANDY LOAM-brown-very dense (A-2)	12 12 13 NP 17
	50/5"	
	50/5"	
302.9		
SANDY LOAM-brown-very dense (A-2)		13 15 20 NP 14
300.9-115		
	RUN 1 (-115.0' to -125.0') Mississippi System, Valmeyeran Series Limestone	RUN 1
317.9		
SAND with GRAVEL-brown & gray-dense (A-1-b)		13 15 20 NP 15

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test. The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206). The Unit Dry Weight (pcf) is noted in italics above moist (%). NR-No Recovery.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test. The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206). The Unit Dry Weight (pcf) is noted in italics above moist (%). NR-No Recovery.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test. The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206). The Unit Dry Weight (pcf) is noted in italics above moist (%). NR-No Recovery.

	FILE NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER I-70	SOIL BORING LOGS 1 OF 21			F.A.P. RTE. 998	SECTION 82-2-1HVB-1	COUNTY ST. CLAIR	TOTAL SHEETS 345	SHEET NO. 172
	USER NAME = SUSER*	DRAWN - TCG	REVISED -		SCALE:	SHEET NO. SA-37 OF SA-57	STA. 1683+43.17 TO STA.	SN 082-0328	CONTRACT NO. 76D05			
	DESIGNED BY -	CHECKED - JLR	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT					

\p1000000 CONN-99-001-MS.DGN... \p1000000 CONN-99-001-MS.DGN... \p1000000 CONN-99-001-MS.DGN... \p1000000 CONN-99-001-MS.DGN... \p1000000 CONN-99-001-MS.DGN...

SB-109

SB-109 Run-1

SB-109 Run-2

SOIL BORING LOG					PAGE 4 of 4						
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08					DATE 5/11-12/2009						
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3					LOGGED BY DR						
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic					GSI JOB No. 08201						
STRUCT. NO. 082-W309					Surface Water Elev. n/a						
Station: --					Stream Bed Elev. n/a						
BORING NO. SB-109					Groundwater Elevation:						
Station: 24+26					First Encounter n/a						
Offset: 37.5' Right					Upon Completion n/a						
Ground Surface Elev. 415.9					After 24 Hrs. n/a						
DEPTH	BLOWS	UCS	MOIST	DEPTH	BLOWS	UCS	MOIST	DEPTH	BLOWS	UCS	MOIST
(ft)	(/6")	(tsf)	(%)	(ft)	(/6")	(tsf)	(%)	(ft)	(/6")	(tsf)	(%)
115.0				115.0				115.0			
Light gray & fine grained with horizontal bedding. Horizontal fractures @ -115.7', -116.4', -116.9', -117.2', -117.4' & -117.8'. 1/2" clay parting @ -118.2'. Horizontal fractures @ -119.3', -119.6', -120.0', -120.1', -120.2', -120.4', -120.7', -120.9', -121.4', -121.7', -122.0', -122.1', -122.2', -122.3', -122.4', -122.6', -123.3', -123.9', -124.2' & -125.0'. Recovery=100.0% R.Q.D.=64.8% 290.9											
RUN 1											
RUN 2 (-125.0' to -130.0') Mississippi System, Valmeyeran Series Limestone											
Light gray & fine grained with horizontal bedding. Some chert replacement. Numerous horizontal fractures throughout. Recovery=100.0% R.Q.D.=35.0% 285.9-130											
RN 2											
End Of Boring @ -130.0' Hollow Stem Augers To -12.0' Rotary Drilling To Completion CME Automatic Hammer 12' Of 5" Casing Used 3" Casing Used											

ROCK CORE LOG								PAGE 1 of 2			
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08								DATE 5/11-12/2009			
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3								LOGGED BY DR			
COUNTY St. Clair CORING METHOD Rotary Wash								GSI JOB No. 08201			
STRUCT. NO. 082-W309								CORING BARREL TYPE & SIZE NX Double Swivel-10 ft			
Station: --								Core Diameter 2.0 in			
BORING NO. SB-109								Top of Rock Elev. 300.9			
Station: 24+26								Begin Core Elev. 300.9			
Offset: 37.5' Right								Ground Surface Elev. 415.9			
DEPTH	CORE RUN	RECOVERY	R.Q.	CORRECTION	STRENGTH	DEPTH	CORE RUN	RECOVERY	R.Q.	CORRECTION	STRENGTH
(ft)	(#)	(%)	(%)	(min)/ft	(tsf)	(ft)	(#)	(%)	(%)	(min)/ft	(tsf)
300.9	1	100.0	64.8	n/a	1115.0	300.9	1	100.0	64.8	n/a	1115.0
RUN 1 (-115.0' to -125.0') Mississippi System, Valmeyeran Series Limestone											
Light gray & fine grained with horizontal bedding. Horizontal fractures @ -115.7', -116.4', -116.9', -117.2', -117.4' & -117.8'. 1/2" clay parting @ -118.2'. Horizontal fractures @ -119.3', -119.6', -120.0', -120.1', -120.2', -120.4', -120.7', -120.9', -121.4', -121.7', -122.0', -122.1', -122.2', -122.3', -122.4', -122.6', -123.3', -123.9', -124.2' & -125.0'. Recovery=100.0% R.Q.D.=64.8%											
-119											
-125											

Color pictures of the cores Yes Cores will be stored for examination for XX
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

ROCK CORE LOG								PAGE 2 of 2			
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08								DATE 5/11-12/2009			
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3								LOGGED BY DR			
COUNTY St. Clair CORING METHOD Rotary Wash								GSI JOB No. 08201			
STRUCT. NO. 082-W309								CORING BARREL TYPE & SIZE NX Double Swivel-10 ft			
Station: --								Core Diameter 2.0 in			
BORING NO. SB-109								Top of Rock Elev. 300.9			
Station: 24+26								Begin Core Elev. 300.9			
Offset: 37.5' Right								Ground Surface Elev. 415.9			
DEPTH	CORE RUN	RECOVERY	R.Q.	CORRECTION	STRENGTH	DEPTH	CORE RUN	RECOVERY	R.Q.	CORRECTION	STRENGTH
(ft)	(#)	(%)	(%)	(min)/ft	(tsf)	(ft)	(#)	(%)	(%)	(min)/ft	(tsf)
290.0	2	100.0	35.0	n/c	1293.0	290.0	2	100.0	35.0	n/c	1293.0
RUN 2 (-125.0' to -130.0') Mississippi System, Valmeyeran Series Limestone											
Light gray & fine grained with horizontal bedding. Some chert replacement. Numerous horizontal fractures throughout.											
-130											
-135											

Color pictures of the cores Yes Cores will be stored for examination for XX
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

15999999 CONN-99-001-HS-UDN...08200318 CONN-05-001-80-000X
 NEWARK, IL 62424
 15999999 CONN-99-001-HS-UDN...08200318 CONN-05-001-80-000X
 NEWARK, IL 62424
 15999999 CONN-99-001-HS-UDN...08200318 SHEET 08200328 CONN-10-005-SH-HS-UDN

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
#FILE#		DRAWN - TCG	REVISED -
		CHECKED - JLR	REVISED -
		DATE - 05/13/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
IL 3 OVER I-70

SOIL BORING LOGS			F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2 OF 21			998	82-2-1HVB-1	ST. CLAIR	345	173
SCALE:			SHEET NO. SA-38 OF SA-57		STA. 1683+43.17 TO STA.		
FED. ROAD DIST. NO.			ILLINOIS		CONTRACT NO. T6D05		

FED. ROAD DIST. NO.			ILLINOIS		CONTRACT NO. T6D05		
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SB-119

SOIL BORING LOG										PAGE 1 of 4	
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08										DATE 5/8-12/2009	
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3										LOGGED BY DR	
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic										GSI JOB No. 08201	
STRUCT. NO. 082-0328										Surface Water Elev. <i>n/a</i>	
Station: ---										Stream Bed Elev. <i>n/a</i>	
BORING NO. SB-119										Groundwater Elevation:	
Station: 1682+57										First Encounter <i>n/a</i>	
Offset: 46.0' Left										Upon Completion <i>n/a</i> ▽	
Ground Surface Elev. 416.0										After 24 Hrs. <i>n/a</i> ▽	
DEPTH (ft)	BLU (ft)	UCS (tsf)	MOIST (%)	DEPT (ft)	BLU (ft)	UCS (tsf)	MOIST (%)	DEPT (ft)	BLU (ft)	UCS (tsf)	MOIST (%)
CINDERS & SAND-black-loose (Fill)											
4				2							
5				3							
5	NP	20		3	NP	28					
SAND-brown-loose to dense (A-3)											
1				3							
2				5							
1	NP	12		4	NP	24					
SAND-brown-very loose to loose (A-3)											
1				6							
1	NP	8		6	NP	23					
2				21							
2	NP	12		23	NP	21					
SILTY LOAM-brown-very loose (A-4)											
1				13							
0				15							
1	NP	27		10	NP	21					
SAND-brown-very loose to loose (A-3)											
1				3							
4				2							
4	0.89	38		4	NP	30					
SAND-brown-loose to dense (A-3)											
3				3							
2				3							
3	NP	27		6	NP	29					

SB-119

SOIL BORING LOG										PAGE 2 of 4	
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08										DATE 5/8-12/2009	
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3										LOGGED BY DR	
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic										GSI JOB No. 08201	
STRUCT. NO. 082-0328										Surface Water Elev. <i>n/a</i>	
Station: ---										Stream Bed Elev. <i>n/a</i>	
BORING NO. SB-119										Groundwater Elevation:	
Station: 1682+57										First Encounter <i>n/a</i>	
Offset: 46.0' Left										Upon Completion <i>n/a</i> ▽	
Ground Surface Elev. 416.0										After 24 Hrs. <i>n/a</i> ▽	
DEPTH (ft)	BLU (ft)	UCS (tsf)	MOIST (%)	DEPT (ft)	BLU (ft)	UCS (tsf)	MOIST (%)	DEPT (ft)	BLU (ft)	UCS (tsf)	MOIST (%)
SANDY LOAM to SAND-brown-loose to medium dense (A-2/A-3)											
4				4							
5				5							
5	NP	25		6	NP	26					
SANDY LOAM to SAND-brown-loose to medium dense (A-2/A-3)											
3				4							
4				4							
3	NP	29		5	NP	29					
SAND-brown-very loose to loose (A-3)											
3				3							
5				2							
6	NP	30		5	NP	34					
SAND-brown-medium dense (A-3)											
6				5							
7				6							
7	NP	25		9	NP	24					
SAND-brown-medium dense (A-3)											
5				8							
7				7							
6	NP	26		10	NP	21					
SAND with Gravel-brown & gray-medium dense (A-1-b)											
4				8							
3				11							
4	NP	28		13	NP	15					
SANDY LOAM to SAND-brown-loose to medium dense (A-2/A-3)											
4				4							
4				4							
4	NP	28		7							
SAND-brown-medium dense (A-3)											
4				7							
4				10							
6	NP	28		8	NP	20					

SB-119

SOIL BORING LOG										PAGE 3 of 4	
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08										DATE 5/8-12/2009	
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3										LOGGED BY DR	
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic										GSI JOB No. 08201	
STRUCT. NO. 082-0328										Surface Water Elev. <i>n/a</i>	
Station: ---										Stream Bed Elev. <i>n/a</i>	
BORING NO. SB-119										Groundwater Elevation:	
Station: 1682+57										First Encounter <i>n/a</i>	
Offset: 46.0' Left										Upon Completion <i>n/a</i> ▽	
Ground Surface Elev. 416.0										After 24 Hrs. <i>n/a</i> ▽	
DEPTH (ft)	BLU (ft)	UCS (tsf)	MOIST (%)	DEPT (ft)	BLU (ft)	UCS (tsf)	MOIST (%)	DEPT (ft)	BLU (ft)	UCS (tsf)	MOIST (%)
SAND-brown-medium dense (A-3) 335.5											
9				15							
7				23							
6	NP	15		26	NP	13					
SAND with Gravel-brown & gray-medium dense to dense (A-1-b)											
7				11							
11				9							
10	NP	16		14	NP	9					
Trace organics from -83.5' to -85.0'											
16				310.5							
10											
7	NP	12									
Drillers Observation: Cobbles & Boulders from -105.5' to -108.5'											
5				307.5							
8				50/5"							
8	NP	12		110	NP	13					
SAND-brown & gray-very dense (A-3)											
8				42							
8				50/5"							
8	NP	13									
SAND-brown-medium dense (A-3)											
8				303.0							
8											
8	NP	16		302.0							
Drillers Observation: Apparent bedrock											
9											
9	NP	16		115							
RUN 1 (-114.0' to -124.0') Mississippi System, Volmeyeran Series Limestone											
6											
7											
9	NP	16									
Light gray & fine grained with horizontal bedding. Highly fractured to -115.8'. Horizontal fractures @ -116.2', -116.6', -117.1', -117.6', -118.2', -118.6' & -118.8'. Vertical fracture from -119.2' to -120.0'. Horizontal fractures @ -120.1', -121.5', -122.1', -122.3', -123.2' & -123.4'.											
7											
7											
11	NP	15		120							

5-11-2011 9:54:22 REVISIONS: 08/15/2011 CADYBI DESIGN/0820328 SHEET 0820328 CONN. 18 082-SHT-MS-DDN
 5-11-2011 9:54:22 REVISIONS: 08/15/2011 CADYBI DESIGN/0820328 SHEET 0820328 CONN. 18 082-SHT-MS-DDN

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER I-70	SOIL BORING LOGS 3 OF 21			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - TCG	REVISED -		998	82-2-1HVB-1	ST. CLAIR	345	174			
PLOT SCALE = #SCALE#		CHECKED - JLR	REVISED -		SN 082-0328				CONTRACT NO. 76D05			
PLOT DATE = #DATE#		DATE - 05/13/11	REVISED -		SCALE:	SHEET NO. SA-39 OF SA-57	STA. 1683+43.17 TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



SB-119

SB-119 Run-1

SOIL BORING LOG						PAGE 4 of 4					
ROUTE 170/IL3						DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08					
SECTION 82-2-1HVB-1						LOCATION I-70 & Illinois Route 3					
COUNTY St. Clair						DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic					
STRUCT. NO. 082-0328						DATE 5/8-12/2009					
Station: --						LOGGED BY DR					
BORING NO. SB-119						GSJ JOB No. 08201					
Station: 1682+57						Surface Water Elev. <i>n/a</i>					
Offset: 46.0' Left						Stream Bed Elev. <i>n/a</i>					
Ground Surface Elev. 416.0						Groundwater Elevation:					
						First Encounter <i>n/a</i>					
						Upon Completion <i>n/a</i>					
						After 24 Hrs. <i>n/a</i>					
Recovery=100.0%						DEPT H (ft)					
R.O.D.=70.2%						BOWS Qu (in)					
292.0						UCS (tsf)					
End Of Boring @ -124.0'						MOIST (%)					
Hollow Stem Augers To -10.0'						STRENGTH (tsf)					
Rotary Drilling To Completion						CORRECTION (%)					
CME Automatic Hammer						RECOVERY (%)					
10' Of 4" Casing Used						CORRECTION (ft)					
3" Casing Used						CORRECTION (ft)					

ROCK CORE LOG							PAGE 1 of 1						
ROUTE 170/IL3							DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08						
SECTION 82-2-1HVB-1							LOCATION I-70 & Illinois Route 3						
COUNTY St. Clair							CORING METHOD Rotary Wash						
STRUCT. NO. 082-0328							DATE 5/8-12/2009						
Station: --							LOGGED BY DR						
BORING NO. SB-119							GSJ JOB No. 08201						
Station: 1682+57							Coring Barrel Type & Size NX Double Swivel-10 ft						
Offset: 46.0' Left							Core Diameter 2.0 in						
Ground Surface Elev. 416.0							Top of Rock Elev. 303.0						
							Begin Core Elev. 302.0						
Run 1 (-114.0' to -124.0')							DEPTH (ft)						
Mississippi System, Valmeyeran Series Limestone							CORRECTION (%)						
Light gray & fine grained with horizontal bedding. Highly fractured to -115.8'. Horizontal fractures @ -116.2', -116.6', -117.1', -117.6', -118.2', -118.6' & -118.8'. Vertical fracture from -119.2' to -120.0'. Horizontal fractures @ -120.1', -121.5', -122.1', -122.3', -123.2' & -123.4'.							CORRECTION (%)						
							CORRECTION (%)						
							CORRECTION (%)						
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							CORRECTION (%)						
							CORRECTION (%)						
							CORRECTION (%)						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B- Bulge, S- Shear, P- Penetrometer) ST- Shelby Tube Sample VS- Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO 1206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
 NR-No Recovery

Color pictures of the cores Yes Cores will be stored for examination for XX
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

N:\projects\CON-99 001 MS.DEN.\082015 CON-99 001 BLD.DEN.
 NEWPOND \YFS 004\A\K\VAL\10 TRNS.07\2282\20868 001\STRUCT\CAD\01 DESIGN\082015 SHEET\082015 CON-10 000-SJT-MS.DEN
 D:\1\2011_2012\

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
#FILE#		DRAWN - TCG	REVISED -
		CHECKED - JLR	REVISED -
		DATE - 05/13/11	REVISED -

PLOT SCALE = #SCALE#	PLT DATE = #DATE#

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 IL 3 OVER I-70

SOIL BORING LOGS
 4 OF 21

SCALE: SHEET NO. SA-40 OF SA-57 STA. 1683+43.17 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-2-1HVB-1	ST. CLAIR	345	175
	SN 082-0328		CONTRACT NO. 76D05	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



SB-120

SB-120

SB-120

PAGE 1 of 4

SOIL BORING LOG

DATE 4/27-29/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 082-0328
Station: --

BORING NO. SB-120
Station: 1683+47
Offset: 46.5' Left
Ground Surface Elev. 415.8

DEPT H	BLOW W S	UCS Qu	MOIST S	SOIL DESCRIPTION				DEPT H	BLOW W S	UCS Qu	MOIST S			
				(ft)	(/6")	(tsf)	(%)							
				CRUSHED STONE (Fill)				AS	NP	5				
				CINDERS & SAND-black-medium dense (Fill)										
				SILTY LOAM to LOAM-brown-very loose (A-4)										
				SAND-brown-medium dense to dense (A-3)										
				SAND-brown-very loose to loose (A-3)										
				SANDY LOAM-brown-loose (A-2)										
				SAND-brown-medium dense to dense (A-3)										
				SANDY LOAM-brown-loose (A-2)										
				SAND-brown-medium dense to dense (A-3)										

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After 24 Hrs. 393.8

PAGE 2 of 4

SOIL BORING LOG

DATE 4/27-29/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 082-0328
Station: --

BORING NO. SB-120
Station: 1683+47
Offset: 46.5' Left
Ground Surface Elev. 415.8

DEPT H	BLOW W S	UCS Qu	MOIST S	SOIL DESCRIPTION				DEPT H	BLOW W S	UCS Qu	MOIST S			
				(ft)	(/6")	(tsf)	(%)							
				SANDY LOAM-gray-very loose to medium dense (A-2)										
				SANDY LOAM-brown-loose to medium dense (A-2)										
				SAND-gray-very loose (A-3)										
				ORGANIC LOAM-black (A-8)										
				SAND & GRAVEL-brown & gray-loose (A-1)										
				SANDY LOAM-gray-very loose to medium dense (A-2)										
				SAND-gray-medium dense to dense (A-3)										

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After 24 Hrs. 393.8

PAGE 3 of 4

SOIL BORING LOG

DATE 4/27-29/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 082-0328
Station: --

BORING NO. SB-120
Station: 1683+47
Offset: 46.5' Left
Ground Surface Elev. 415.8

DEPT H	BLOW W S	UCS Qu	MOIST S	SOIL DESCRIPTION				DEPT H	BLOW W S	UCS Qu	MOIST S			
				(ft)	(/6")	(tsf)	(%)							
				SAND-medium dense to dense (A-3)										
				SAND-brown & gray-medium dense to dense (A-3)										
				SAND with Gravel-brown & gray-medium dense (A-1-b)										
				SAND with Gravel-brown & gray-medium dense (A-1-b)										
				GRAVEL-brown & gray-medium dense (A-1-a)										
				SAND & GRAVEL-brown & gray-very dense (A-1)										
				SAND-brown & gray-medium dense to dense (A-3)										
				SILTY SAND & GRAVEL-brown & gray-very dense (A-2)										
				SAND & GRAVEL-brown & gray-very dense (A-1)										
				Drillers Observation: Apparent Bedrock										
				RUN 1 (-115.5' to -125.5') Mississippian System, Valmeyeran Series Limestone										
				Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Horizontal fractures @ -115.9', -116.0', -116.5', -117.1', -117.2' & -117.8'. 1/4" clay parting @ -118.2'. Horizontal fracture @ -118.6'.										

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After 24 Hrs. 393.8

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B=Bulge, S=Shear, P=Penetrometer) S1=Shelby Tube Sample VS=Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO 1206) The Unit Dry Weight (pcf) is noted in *italics* above moist (%)
NR=No Recovery

C:\projects\082-0328\CAD\01 DESIGN\082-0328\ASHEET\082-0328-CONN-10-000-SHT-HEL.DGN
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS
 FILE NAME =
 USER NAME = *USER*
 DESIGNED =
 REVISIONS:
 1. TCC
 2. JLR
 DATE = 05/13/11
 SCALE:
 SHEET NO. SA-41 OF SA-57
 STA. 1683+43.17 TO STA.
 F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 998 82-2-1HVB-1 ST. CLAIR 345 176
 SN 082-0328 CONTRACT NO. 76D05
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

TENG	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER I-70	SOIL BORING LOGS 5 OF 21	F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 998 82-2-1HVB-1 ST. CLAIR 345 176 SN 082-0328 CONTRACT NO. 76D05 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
USER NAME = *USER* DESIGNED = REVISIONS: 1. TCC 2. JLR DATE = 05/13/11 SCALE: SHEET NO. SA-41 OF SA-57 STA. 1683+43.17 TO STA.			

SB-120

SB-120 Run-1

SB-120 Run-2

SOIL BORING LOG

PAGE 4 of 4
DATE 4/27-29/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 082-0328
Station: --
BORING NO. SB-120
Station: 1683+47
Offset: 46.5' Left
Ground Surface Elev. 415.8

DEPT H (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST (%)	Surface Water Elev. n/a	DEPT H (ft)	BLOW S (/6")	UCS Qu	MOIST (%)
				Stream Bed Elev. n/a				
				Groundwater Elevation:				
				First Encounter n/a				
				Upon Completion n/a				
				After 24 Hrs. 393.8				

2" clay parting @ -119.2'. Horizontal fractures @ -119.5', -119.7', -120.2' & -120.5'. 1.0" clay parting @ -120.7'. Horizontal fractures @ -121.9', -122.4', -122.6', -123.1', -124.3' & -124.9'.
Recovery=100.0%
R.Q.D.=83.8%

290.3

RUN 1

RUN 2 (-125.5' to -130.5')
Mississippian System, Valmeyeran Series Limestone
Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Becoming darker gray between -126.1' & -126.8' with numerous horizontal fractures throughout.
Recovery=100.0% R.Q.D.=45.0% **285.3**

RUN 2

End Of Boring @ -130.5'
Hollow Stem Augers To -10.0'
Rotary Drilling To Completion
CME Automatic Hammer
10' Of 4" Casing Used

ROCK CORE LOG

PAGE 1 of 2
DATE 4/27-29/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3
COUNTY St. Clair CORING METHOD Rotary Wash

STRUCT. NO. 082-0328
Station: --
BORING NO. SB-120
Station: 1683+47
Offset: 46.5' Left
Ground Surface Elev. 415.8

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 301.3
Begin Core Elev. 300.3

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	RECOVERED (ft)	CORRECTION (min)	STRENGTH (tsf)
300.3	1	100.0	83.8	n/a	155.8

RUN 1 (-115.5' to -125.5')
Mississippian System, Valmeyeran Series Limestone
Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Horizontal fractures @ -115.9', -116.0', -116.5', -117.1', -117.2' & -117.8'. 1/4" clay parting @ -118.2'. Horizontal fracture @ -118.6'. 1/2" clay parting @ -119.2'. Horizontal fractures @ -119.5', -119.7', -120.2' & -120.5'. 1.0" clay parting @ -120.7'. Horizontal fractures @ -121.9', -122.4', -122.6', -123.1', -124.3' & -124.9'.

ROCK CORE LOG

PAGE 2 of 2
DATE 4/27-29/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3
COUNTY St. Clair CORING METHOD Rotary Wash

STRUCT. NO. 082-0328
Station: --
BORING NO. SB-120
Station: 1683+47
Offset: 46.5' Left
Ground Surface Elev. 415.8

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 301.3
Begin Core Elev. 300.3

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	RECOVERED (ft)	CORRECTION (min)	STRENGTH (tsf)
290.3	2	100.0	45.0	n/a	155.8

RUN 2 (-125.5' to -130.5')
Mississippian System, Valmeyeran Series Limestone
Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Becoming darker gray between -126.1' & -126.8' with numerous horizontal fractures throughout.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, F-Penetrometer) ST-Shalby Tube Sample, VS-Vane Shear Test. The SPT (ft value) is the sum of the last two blow values in each sampling zone (ASTM D2058) The Unit Dry Weight (pcf) is noted in Italic above moist (%). NR-No Recovery.

Color pictures of the cores Yes Cores will be stored for examination for XX The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

Color pictures of the cores Yes Cores will be stored for examination for XX The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

V:\projects\CON-99-001\MSCON_V082010.CON\99_001_00.DCD
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 5-11-2011 10:55:31

SB-120A

SB-120A

SB-120A

SOIL BORING LOG												PAGE 1 of 4	
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08												DATE 9/24/2009	
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3												LOGGED BY DR	
COUNTY St. Clair DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic												GSI JOB No. 08201	
STRUCT. NO. ---		Blind Drill To -114.5'		Surface Water Elev. n/a		D B U M		Blind Drill To -114.5'		Surface Water Elev. n/a		D B U M	
Station: ---				Stream Bed Elev. n/a		P T W S Qu				Stream Bed Elev. n/a		P T W S Qu	
BORING NO. SB-120A				Groundwater Elevation:		H S Qu				Groundwater Elevation:		H S Qu	
Station: 1683+52				First Encounter n/a		T H S Qu				First Encounter n/a		T H S Qu	
Offset: 46.6' Left				Upon Completion n/a		H S Qu				Upon Completion n/a		H S Qu	
Ground Surface Elev. 416.1				After 24 Hrs. n/a		H S Qu				After 24 Hrs. n/a		H S Qu	

SOIL BORING LOG												PAGE 2 of 4	
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08												DATE 9/24/2009	
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3												LOGGED BY DR	
COUNTY St. Clair DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic												GSI JOB No. 08201	
STRUCT. NO. ---		Blind Drill To -114.5'		Surface Water Elev. n/a		D B U M		Blind Drill To -114.5'		Surface Water Elev. n/a		D B U M	
Station: ---				Stream Bed Elev. n/a		P T W S Qu				Stream Bed Elev. n/a		P T W S Qu	
BORING NO. SB-120A				Groundwater Elevation:		H S Qu				Groundwater Elevation:		H S Qu	
Station: 1683+52				First Encounter n/a		T H S Qu				First Encounter n/a		T H S Qu	
Offset: 46.6' Left				Upon Completion n/a		H S Qu				Upon Completion n/a		H S Qu	
Ground Surface Elev. 416.1				After 24 Hrs. n/a		H S Qu				After 24 Hrs. n/a		H S Qu	

SOIL BORING LOG												PAGE 3 of 4	
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08												DATE 9/24/2009	
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3												LOGGED BY DR	
COUNTY St. Clair DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic												GSI JOB No. 08201	
STRUCT. NO. ---		Blind Drill To -114.5'		Surface Water Elev. n/a		D B U M		Blind Drill To -114.5'		Surface Water Elev. n/a		D B U M	
Station: ---				Stream Bed Elev. n/a		P T W S Qu				Stream Bed Elev. n/a		P T W S Qu	
BORING NO. SB-120A				Groundwater Elevation:		H S Qu				Groundwater Elevation:		H S Qu	
Station: 1683+52				First Encounter n/a		T H S Qu				First Encounter n/a		T H S Qu	
Offset: 46.6' Left				Upon Completion n/a		H S Qu				Upon Completion n/a		H S Qu	
Ground Surface Elev. 416.1				After 24 Hrs. n/a		H S Qu				After 24 Hrs. n/a		H S Qu	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%) NR-No Recovery

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%) NR-No Recovery

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%) NR-No Recovery

11/22/11 10:24:34
 I:\999999\CADD\11022010\CADD\081\STRUCT\CA081.DESIGN\0820328\SHEET\0820328-CONN-10-011-SBT-MSC.DGN
 NEWPENN 11/22/11 10:24:34
 T:\999999\CADD\11022010\CADD\081\STRUCT\CA081.DESIGN\0820328\SHEET\0820328-CONN-10-011-SBT-MSC.DGN

TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	FILE NAME = #FILE#	USER NAME = #USER# DESIGNED - DRAWN - TCG CHECKED - JLR DATE - 05/13/11	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER I-70	SOIL BORING LOGS 7 OF 21			SCALE: SHEET NO. SA-43 OF SA-57 STA. 1683+43.17 TO STA.	F.A.P. RTE. 998	SECTION 82-2-1HVB-1	COUNTY ST. CLAIR	TOTAL SHEETS 345	SHEET NO. 178
	SN 082-0328								CONTRACT NO. 76D05				
	FEDERAL ROAD DIST. NO. ILLINOIS FED. AID PROJECT												

SB-120A

SB-120A Run-1&2

SB-120A Run-3&4

PAGE 4 of 4

SOIL BORING LOG

DATE 9/24/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3
COUNTY St. Clair DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. --
Station: --
BORING NO. SB-120A
Station: 1683+52
Offset: 46.6' Left
Ground Surface Elev. 416.1

DEPTH (ft) (/6") (tsf) (%)		Surface Water Elev. n/a Stream Bed Elev. n/a Groundwater Elevation:	DEPTH (ft) (/6") (tsf) (%)	
		First Encounter n/a Upon Completion n/a After 24 Hrs. n/a		

Mississippian System, Valmeyeran Series Limestone
Light gray & fine grained with horizontal bedding. Horizontal fracture with 1/4" clay parting @ -119.5'. Horizontal fracture @ -119.7'. Horizontal fracture with 3/4" clay parting @ -120.6'. Horizontal fractures @ -122.0', -122.9', -123.1' & -124.3'. Recovery=100.0% R.Q.D.=88.0% 291.6

RUN 2

Mississippian System, Valmeyeran Series Limestone
Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Slightly porous & fossiliferous with some weathering. Horizontal fractures @ -141.0' & -141.3'. Highly fractured from -141.6' to -142.7'. Horizontal fractures @ -143.5' & -144.2'. Recovery=100.0% R.Q.D.=74.0% 271.6

RUN 6

RUN 3 (-124.5' to -129.5')
Mississippian System, Valmeyeran Series Limestone
Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Horizontal fractures @ -124.8', -128.1', -128.4' & -129.0'. Recovery=97.0% R.Q.D.=84.0% 286.6

RUN 3

RUN 7 (-144.5' to -149.5')
Mississippian System, Valmeyeran Series Limestone
Weathered & gray with horizontal bedding. Slightly porous & fossiliferous with some chert replacement. Fine grained with some chert replacement. Horizontal fractures @ -145.0', -145.1', -145.7', -146.4', -147.2', -148.0' & -148.3'. Large chert nodule from -148.3' to -148.7'. Recovery=89.5% R.Q.D.=77.0% 266.6

RUN 7

RUN 4 (-129.5' to -134.5')
Mississippian System, Valmeyeran Series Limestone
Light gray to gray with horizontal bedding becoming darker gray @ -133.2'. Fine grained with some chert replacement. Numerous horizontal fractures throughout. 1/2" clay parting @ -133.2'. Recovery=100.0% R.Q.D.=70.0% 281.6

RUN 4

RUN 5 (-134.5' to -139.5')
Mississippian System, Valmeyeran Series Limestone
Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Slightly porous & fossiliferous. Horizontal fractures @ -135.4', -136.1', -136.6', -137.6', -138.2', -138.9' & -139.2'. Recovery=100.0% R.Q.D.=95.0% 276.6

RUN 5

RUN 6 (-139.5' to -144.5')

RUN 6

PAGE 1 of 4

ROCK CORE LOG

DATE 9/24/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3
COUNTY St. Clair CORING METHOD Rotary Wash

STRUCT. NO. --
Station: --
BORING NO. SB-120A
Station: 1683+52
Offset: 46.6' Left
Ground Surface Elev. 416.1

STRUCT. NO. --
Station: --
BORING NO. SB-120A
Station: 1683+52
Offset: 46.6' Left
Ground Surface Elev. 416.1

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORRECTION (min/ft)	STRENGTH (tsf)
301.6	1	100.0	75.0	n/a	1406.9 -118.4
296.6	2	100.0	88.0	n/a	1012.0 -118.7
124.5					

RUN 1 (-114.5' to -119.5')
Mississippian System, Valmeyeran Series Limestone
Light gray with horizontal bedding. Fine grained with horizontal fractures @ -114.6', -114.7', -115.0', -115.3', -115.7', -116.1', -116.3', -116.9', -117.6', -118.3', -118.9' & -119.3'.

RUN 2 (-119.5' to -124.5')
Mississippian System, Valmeyeran Series Limestone
Light gray & fine grained with horizontal bedding. Horizontal fracture with 1/4" clay parting @ -119.5'. Horizontal fracture @ -119.7'. Horizontal fracture with 3/4" clay parting @ -120.6'. Horizontal fractures @ -122.0', -122.9', -123.1' & -124.3'.

PAGE 2 of 4

ROCK CORE LOG

DATE 9/24/2009
LOGGED BY DR
GSI JOB No. 08201

ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3
COUNTY St. Clair CORING METHOD Rotary Wash

STRUCT. NO. --
Station: --
BORING NO. SB-120A
Station: 1683+52
Offset: 46.6' Left
Ground Surface Elev. 416.1

STRUCT. NO. --
Station: --
BORING NO. SB-120A
Station: 1683+52
Offset: 46.6' Left
Ground Surface Elev. 416.1

DEPTH (ft)	CORE RUN (#)	RECOVERY (%)	R.Q.D. (%)	CORRECTION (min/ft)	STRENGTH (tsf)
291.6	3	97.0	84.0	n/a	1042.6 -124.9
286.6	4	100.0	70.0	n/a	1097.9 -129.5
134.5					

RUN 3 (-124.5' to -129.5')
Mississippian System, Valmeyeran Series Limestone
Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Horizontal fractures @ -124.8', -128.1', -128.4' & -129.0'.

RUN 4 (-129.5' to -134.5')
Mississippian System, Valmeyeran Series Limestone
Light gray to gray with horizontal bedding becoming darker gray @ -133.2'. Fine grained with some chert replacement. Numerous horizontal fractures throughout. 1/2" clay parting @ -133.2'.

The Unclassified Compressive Strength (UCS) Failure Mode is indicated by (B)=Fulge, (S)=Shear, (P)=Penetration) ST=Shelby Tube Sample VS=Vane Shear Test
The SPI (N value) is the sum of the last two blow values in each sampling zone (ASTM D 1586) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR=No Recovery

Color pictures of the cores Yes Cores will be stored for examination for XX
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

Color pictures of the cores Yes Cores will be stored for examination for XX
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

\V:\980328\CORR\98-001-MSJDN...980328\CORR_05_01_01.B01.DGN
 \V:\980328\CORR\98-001-MSJDN...980328\CORR_05_01_01.B01.DGN
 \V:\980328\CORR\98-001-MSJDN...980328\CORR_05_01_01.B01.DGN

SB-125

SB-125

SB-125

SOIL BORING LOG										PAGE 1 of 4	
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08										DATE 5/5/2009	
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3										LOGGED BY DR	
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic										GSI JOB No. 08201	
STRUCT. NO. 082-0329										Surface Water Elev. <i>n/a</i>	
Station: ---										Stream Bed Elev. <i>n/a</i>	
BORING NO. SB-125										Groundwater Elevation:	
Station: 1680+85										First Encounter <i>n/a</i>	
Offset: 46.5' Right										Upon Completion <i>n/a</i> <input checked="" type="checkbox"/>	
Ground Surface Elev. 417.2										After 24 Hrs. 395.2 <input checked="" type="checkbox"/>	
DEPTH	BLOW	UCS	MOIST	Surface Water Elev.		DEPTH	BLOW	UCS	MOIST	Stream Bed Elev.	
(ft)	(/6")	(tsf)	(%)	<i>n/a</i>		(ft)	(/6")	(tsf)	(%)	<i>n/a</i>	
CONCRETE 416.2											
CINDERS-block-loose (Fill)											
SAND-brown-medium dense to dense (A-3) 411.7											
SANDY LOAM-brown-loose to medium dense (A-2) 406.7											
SAND-brown-medium dense (A-3) 404.2											
SANDY LOAM-brown-loose (A-2) 401.7											
SAND-brown-medium dense to dense (A-3) 379.2											
SANDY LOAM-brown-medium dense (A-2)											

SOIL BORING LOG										PAGE 2 of 4	
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08										DATE 5/5/2009	
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3										LOGGED BY DR	
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic										GSI JOB No. 08201	
STRUCT. NO. 082-0329										Surface Water Elev. <i>n/a</i>	
Station: ---										Stream Bed Elev. <i>n/a</i>	
BORING NO. SB-125										Groundwater Elevation:	
Station: 1680+85										First Encounter <i>n/a</i>	
Offset: 46.5' Right										Upon Completion <i>n/a</i> <input checked="" type="checkbox"/>	
Ground Surface Elev. 417.2										After 24 Hrs. 395.2 <input checked="" type="checkbox"/>	
DEPTH	BLOW	UCS	MOIST	Surface Water Elev.		DEPTH	BLOW	UCS	MOIST	Stream Bed Elev.	
(ft)	(/6")	(tsf)	(%)	<i>n/a</i>		(ft)	(/6")	(tsf)	(%)	<i>n/a</i>	
SANDY LOAM-brown-medium dense (A-2)											
SAND-gray-medium dense (A-3)											
SAND with Gravel-brown & gray-medium dense (A-1-b) 349.2											
SAND with Gravel-gray-medium dense (A-1-b) 346.7											
SAND-gray-dense (A-3) 361.7											
SAND-gray-medium dense (A-3) 341.7											
SAND with Gravel-brown & gray-medium dense (A-1-b)											

SOIL BORING LOG										PAGE 3 of 4	
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08										DATE 5/5/2009	
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3										LOGGED BY DR	
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic										GSI JOB No. 08201	
STRUCT. NO. 082-0329										Surface Water Elev. <i>n/a</i>	
Station: ---										Stream Bed Elev. <i>n/a</i>	
BORING NO. SB-125										Groundwater Elevation:	
Station: 1680+85										First Encounter <i>n/a</i>	
Offset: 46.5' Right										Upon Completion <i>n/a</i> <input checked="" type="checkbox"/>	
Ground Surface Elev. 417.2										After 24 Hrs. 395.2 <input checked="" type="checkbox"/>	
DEPTH	BLOW	UCS	MOIST	Surface Water Elev.		DEPTH	BLOW	UCS	MOIST	Stream Bed Elev.	
(ft)	(/6")	(tsf)	(%)	<i>n/a</i>		(ft)	(/6")	(tsf)	(%)	<i>n/a</i>	
SAND with Gravel (A-1-b) 336.7											
SAND-brown & gray-medium dense (A-3)											
SAND-brown & gray-medium dense to very dense (A-3) 331.7											
SAND with Gravel-brown & gray-medium dense (A-1-b) 329.2											
SAND-brown & gray-medium dense to very dense (A-3)											
SAND-brown & gray-medium dense to very dense (A-3) 302.2-115											
Drillers Observation: Apparent Bedrock. 301.7											
RUN 1 (-115.5' to -120.5') Cobbles from -115.5' to -115.8', Mississippian System, Valmeyeran Series Limestone											
Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -116.4', -116.7', -117.2', -117.7', -118.1', -119.6' & -119.7'. 1/2" clay parting @ -120.5'.											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

11-2211, 9-2450
 FILE NAME =
 USER NAME = #USER#
 DESIGNED -
 DRAWN - TCG
 CHECKED - JLR
 DATE - 05/13/11
 REVISED -
 REVISED -
 REVISED -
 REVISED -
 PLOT SCALE = #SCALE#
 PLOT DATE = #DATE#
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 IL 3 OVER I-70
 SOIL BORING LOGS
 12 OF 21
 SCALE:
 SHEET NO. SA-48 OF SA-57
 STA. 1683+43.17 TO STA.
 F.A.P. RTE. 998
 SECTION 82-2-1HVB-1
 COUNTY ST. CLAIR
 TOTAL SHEETS 345
 SHEET NO. 183
 SN 082-0328
 CONTRACT NO. 76D05
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

TENGL & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - DRAWN - TCG CHECKED - JLR DATE - 05/13/11	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER I-70	SOIL BORING LOGS 12 OF 21	SCALE: SHEET NO. SA-48 OF SA-57 STA. 1683+43.17 TO STA.	F.A.P. RTE. 998 SECTION 82-2-1HVB-1 COUNTY ST. CLAIR TOTAL SHEETS 345 SHEET NO. 183
	PLOT SCALE = #SCALE# PLOT DATE = #DATE#	CONTRACT NO. 76D05 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

SB-125

SOIL BORING LOG									
PAGE 4 of 4					DATE 5/5/2009				
LOGGED BY DR					GSI JOB No. 08201				
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08					SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3				
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic					STRUCT. NO. 082-0329				
BORING NO. SB-125					Station: 1680+85				
Offset: 46.5' Right					Ground Surface Elev. 417.2				
DEPT H	BLOW S	UCS	MOIST	Surface Water Elev. n/a	DEPT H	BLOW S	UCS	MOIST	
(ft)	(#/6")	(tsf)	(%)	Stream Bed Elev. n/a	(ft)	(#/6")	(tsf)	(%)	
Groundwater Elevation:					First Encounter n/a				
Upon Completion n/a					After 24 Hrs. 395.2				
Recovery=100.0% R.Q.D.=90.0% 296.7 RUN 1									
RUN 2 (-120.5' to -123.5') MISSISSIPPIAN SYSTEM, VALMEYERAN SERIES LIMESTONE									
Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -121.3', -121.8' & -122.5'. Recovery=95.0% R.Q.D.=81.7% 293.7									
RUN 3 (-123.5' to -127.5') MISSISSIPPIAN SYSTEM, VALMEYERAN SERIES LIMESTONE									
Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -124.8', -125.5', -125.6', -125.7', -125.9', -126.0', -126.1', -126.8' & -126.9'. Recovery=97.5% R.Q.D.=62.5% 289.7									
RUN 4 (-120.5' to -123.5') MISSISSIPPIAN SYSTEM, VALMEYERAN SERIES LIMESTONE									
Light gray to gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout. Recovery=100.0% R.Q.D.=25.0% 286.7									
End Of Boring @ -130.5'									
Hollow Stem Augers To -10.0'									
Rotary Drilling To Completion									
CME Automatic Hammer									
10' Of 4" Casing Used									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B= Bulge, S= Shear, P= Penetrometer) ST= Shelby Tube Sample VS= Vane Shear Test The SP* (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%) NR= No Recovery

SB-125 Run-1&2

ROCK CORE LOG									
PAGE 1 of 2					DATE 5/5/2009				
LOGGED BY DR					GSI JOB No. 08201				
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08					SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3				
COUNTY St. Clair CORING METHOD Rotary Wash					STRUCT. NO. 082-0329				
BORING NO. SB-125					Station: 1680+85				
Offset: 46.5' Right					Ground Surface Elev. 417.2				
DEPT H	CORE RUN	RECOVERY	R. Q. D.	CORE LENGTH	DEPT H	CORE RUN	RECOVERY	R. Q. D.	CORE LENGTH
(ft)	(#)	(%)	(%)	(ft)	(ft)	(#)	(%)	(%)	(ft)
CORING BARREL TYPE & SIZE NX Double Swivel-10 ft									
Core Diameter 2.0 in									
Top of Rock Elev. 301.4									
Begin Core Elev. 301.7									
RUN 1 (-115.5' to -120.5') 301.7									
(-115.5' to -115.8') Cobbles 301.4									
(-115.8' to -120.5') Mississippian System, Valmeyeran Series Limestone									
Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -116.4', -116.7', -117.2', -117.7', -118.1', -119.6' & -119.7'. 1/2" clay parting @ -120.5'.									
RUN 2 (-120.5' to -123.5') 296.7									
Mississippian System, Valmeyeran Series Limestone									
Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -121.3', -121.8' & -122.5'.									

Color pictures of the cores Yes Cores will be stored for examination for XX The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

SB-125 Run-3&4

ROCK CORE LOG									
PAGE 2 of 2					DATE 5/5/2009				
LOGGED BY DR					GSI JOB No. 08201				
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08					SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3				
COUNTY St. Clair CORING METHOD Rotary Wash					STRUCT. NO. 082-0329				
BORING NO. SB-125					Station: 1680+85				
Offset: 46.5' Right					Ground Surface Elev. 417.2				
DEPT H	CORE RUN	RECOVERY	R. Q. D.	CORE LENGTH	DEPT H	CORE RUN	RECOVERY	R. Q. D.	CORE LENGTH
(ft)	(#)	(%)	(%)	(ft)	(ft)	(#)	(%)	(%)	(ft)
CORING BARREL TYPE & SIZE NX Double Swivel-10 ft									
Core Diameter 2.0 in									
Top of Rock Elev. 301.4									
Begin Core Elev. 301.7									
RUN 3 (-123.5' to -127.5') 293.7									
Mississippian System, Valmeyeran Series Limestone									
Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -124.8', -125.5', -125.6', -125.7', -125.9', -126.0', -126.1', -126.8' & -126.9'.									
RUN 4 (-127.5' to -130.5') 289.7									
Mississippian System, Valmeyeran Series Limestone									
Light gray to gray & fine grained with horizontal bedding. Numerous horizontal fractures throughout.									

Color pictures of the cores Yes Cores will be stored for examination for XX The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

V:\999999 CONN-99-001-MS.DGN, V:\0220318 CONN-99-001-MS.DGN, V:\11-2011-134563 NEWPWRNO V:\5-0644\DATA\PLT\11-TRANS-07\2202-20856-001\STRUCT\CAD\01 DESIGN\0220318\SHEET\0220328-CONN-10-017-SIT-MS.DGN

TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	FILE NAME =	USER NAME = #USERS#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER I-70	SOIL BORING LOGS 13 OF 21	F.A.P. RTE. 998	SECTION 82-2-1HVB-1	COUNTY ST. CLAIR	TOTAL SHEETS 345	SHEET NO. 184
	PLOT SCALE = #SCALE#	PLOT DATE = #DATE#	CHECKED - JLR	REVISED -			SCALE:	SHEET NO. SA-49 OF SA-57	STA. 1683+43.17 TO STA.	CONTRACT NO. 76D05 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

SB-126

SOIL BORING LOG				PAGE <u>1</u> of <u>4</u>			
				DATE <u>4/29-30/2009</u>			
				LOGGED BY <u>DR</u>			
				GSI JOB No. <u>08201</u>			
ROUTE <u>I70/I13</u> DESCRIPTION <u>I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08</u>				SECTION <u>82-2-1HVB-1</u> LOCATION <u>I-70 & Illinois Route 3</u>			
COUNTY <u>St. Clair</u> DRILLING METHOD <u>3.25" Hollow Stem Auger</u> HAMMER TYPE <u>CME Automatic</u>							
STRUCT. NO. <u>082-W309</u> Station: <u>---</u>		DEPT T H S		BLU O W Qu		MOC I S T	
BORING NO. <u>SB-126</u> Station: <u>1681+98</u> Offset: <u>39.5' Right</u> Ground Surface Elev. <u>416.7</u>		(ft) (/6") (tsf) (%)		Surface Water Elev. <u>n/a</u> Stream Bed Elev. <u>n/a</u> Groundwater Elevation: First Encounter <u>n/a</u> Upon Completion <u>n/a</u> After 24 Hrs. <u>395.7</u>		(ft) (/6") (tsf) (%)	
9.0" TOPSOIL-black <u>415.9</u>		AS - 33		SILTY LOAM-dark brown-very loose (A-4) <u>413.7</u>		NP 21	
SANDY LOAM-brown-very loose (A-2) <u>411.2</u>		NP 30		SAND-brown-medium dense (A-3) <u>399.2</u>		NP 25	
SILTY CLAY-brown-stiff (A-7) Wet <u>408.7</u>		NP 39		SANDY LOAM-brown-very loose (A-2) <u>391.2</u>		NP 38	
SILT-brown & gray-loose (A-4) <u>401.2</u>		NP 29		SANDY LOAM-brown & gray-very loose to loose (A-2) <u>398.7</u>		NP 32	
SAND-brown-medium dense (A-3) <u>398.7</u>		NP 22		SAND & GRAVEL-brown & gray-medium dense (A-1) <u>341.2</u>		NP 16	
SILTY CLAY LOAM-brown-medium dense (A-4) Wet <u>401.2</u>		NP 34		SAND-brown & gray-dense (A-3) <u>346.2</u>		NP 17	
		NP 33		SAND-brown & gray-dense (A-3) <u>351.2</u>		NP 18	
		NP 33		WOOD (A-B) <u>348.7</u>		NP 525	
		NP 29		SAND-brown & gray-dense (A-3) <u>346.2</u>		NP 16	
		NP 29		SAND & GRAVEL-brown & gray-medium dense (A-1) <u>341.2</u>		NP 8	
		NP 34		SAND-brown & gray-dense (A-3) <u>356.2</u>		NP 17	
		NP 33		SAND-brown-medium dense (A-3) <u>353.7</u>		NP 24	
		NP 33		SAND-gray-medium dense (A-3) <u>351.2</u>		NP 18	
		NP 33		SANDY LOAM-brown & gray-very loose to loose (A-2) <u>346.2</u>		NP 16	
		NP 33		SANDY LOAM-brown & gray-very loose to loose (A-2) <u>348.7</u>		NP 16	
		NP 33		SAND-brown & gray-dense (A-3) <u>346.2</u>		NP 16	
		NP 33		SAND & GRAVEL-brown & gray-medium dense (A-1) <u>341.2</u>		NP 15	
		NP 33		SAND-brown & gray-dense (A-3) <u>356.2</u>		NP 17	
		NP 33		SAND-brown-medium dense (A-3) <u>353.7</u>		NP 24	
		NP 33		SAND-gray-medium dense (A-3) <u>351.2</u>		NP 18	
		NP 33		SANDY LOAM-brown & gray-very loose to loose (A-2) <u>346.2</u>		NP 16	
		NP 33		SANDY LOAM-brown & gray-very loose to loose (A-2) <u>348.7</u>		NP 16	
		NP 33		SAND-brown & gray-dense (A-3) <u>346.2</u>		NP 16	
		NP 33		SAND & GRAVEL-brown & gray-medium dense (A-1) <u>341.2</u>		NP 15	
		NP 33		SAND-brown & gray-dense (A-3) <u>356.2</u>		NP 17	
		NP 33		SAND-brown-medium dense (A-3) <u>353.7</u>		NP 24	
		NP 33		SAND-gray-medium dense (A-3) <u>351.2</u>		NP 18	
		NP 33		SANDY LOAM-brown & gray-very loose to loose (A-2) <u>346.2</u>		NP 16	
		NP 33		SANDY LOAM-brown & gray-very loose to loose (A-2) <u>348.7</u>		NP 16	
		NP 33		SAND-brown & gray-dense (A-3) <u>346.2</u>		NP 16	
		NP 33		SAND & GRAVEL-brown & gray-medium dense (A-1) <u>341.2</u>		NP 15	
		NP 33		SAND-brown & gray-dense (A-3) <u>356.2</u>		NP 17	
		NP 33		SAND-brown-medium dense (A-3) <u>353.7</u>		NP 24	
		NP 33		SAND-gray-medium dense (A-3) <u>351.2</u>		NP 18	
		NP 33		SANDY LOAM-brown & gray-very loose to loose (A-2) <u>346.2</u>		NP 16	
		NP 33		SANDY LOAM-brown & gray-very loose to loose (A-2) <u>348.7</u>		NP 16	
		NP 33		SAND-brown & gray-dense (A-3) <u>346.2</u>		NP 16	
		NP 33		SAND & GRAVEL-brown & gray-medium dense (A-1) <u>341.2</u>		NP 15	
		NP 33		SAND-brown & gray-dense (A-3) <u>356.2</u>		NP 17	
		NP 33		SAND-brown-medium dense (A-3) <u>353.7</u>		NP 24	
		NP 33		SAND-gray-medium dense (A-3) <u>351.2</u>		NP 18	
		NP 33		SANDY LOAM-brown & gray-very loose to loose (A-2) <u>346.2</u>		NP 16	
		NP 33		SANDY LOAM-brown & gray-very loose to loose (A-2) <u>348.7</u>		NP 16	
		NP 33		SAND-brown & gray-dense (A-3) <u>346.2</u>		NP 16	
		NP 33		SAND & GRAVEL-brown & gray-medium dense (A-1) <u>341.2</u>		NP 15	
		NP 33		SAND-brown & gray-dense (A-3) <u>356.2</u>		NP 17	
		NP 33		SAND-brown-medium dense (A-3) <u>353.7</u>		NP 24	
		NP 33		SAND-gray-medium dense (A-3) <u>351.2</u>		NP 18	
		NP 33		SANDY LOAM-brown & gray-very loose to loose (A-2) <u>346.2</u>		NP 16	
		NP 33		SANDY LOAM-brown & gray-very loose to loose (A-2) <u>348.7</u>		NP 16	
		NP 33		SAND-brown & gray-dense (A-3) <u>346.2</u>		NP 16	
		NP 33		SAND & GRAVEL-brown & gray-medium dense (A-1) <u>341.2</u>		NP 15	
		NP 33		SAND-brown & gray-dense (A-3) <u>356.2</u>		NP 17	
		NP 33		SAND-brown-medium dense (A-3) <u>353.7</u>		NP 24	
		NP 33		SAND-gray-medium dense (A-3) <u>351.2</u>		NP 18	
		NP 33		SANDY LOAM-brown & gray-very loose to loose (A-2) <u>346.2</u>		NP 16	
		NP 33		SANDY LOAM-brown & gray-very loose to loose (A-2) <u>348.7</u>		NP 16	
		NP 33		SAND-brown & gray-dense (A-3) <u>346.2</u>		NP 16	
		NP 33		SAND & GRAVEL-brown & gray-medium dense (A-1) <u>341.2</u>		NP 15	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in *italics* above moist (%)
NR-No Recovery

SB-126

SOIL BORING LOG				PAGE <u>2</u> of <u>4</u>			
				DATE <u>4/29-30/2009</u>			
				LOGGED BY <u>DR</u>			
				GSI JOB No. <u>08201</u>			
ROUTE <u>I70/I13</u> DESCRIPTION <u>I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08</u>				SECTION <u>82-2-1HVB-1</u> LOCATION <u>I-70 & Illinois Route 3</u>			
COUNTY <u>St. Clair</u> DRILLING METHOD <u>3.25" Hollow Stem Auger</u> HAMMER TYPE <u>CME Automatic</u>							
STRUCT. NO. <u>082-W309</u> Station: <u>---</u>		DEPT T H S		BLU O W Qu		MOC I S T	
BORING NO. <u>SB-126</u> Station: <u>1681+98</u> Offset: <u>39.5' Right</u> Ground Surface Elev. <u>416.7</u>		(ft) (/6") (tsf) (%)		Surface Water Elev. <u>n/a</u> Stream Bed Elev. <u>n/a</u> Groundwater Elevation: First Encounter <u>n/a</u> Upon Completion <u>n/a</u> After 24 Hrs. <u>395.7</u>		(ft) (/6") (tsf) (%)	
SANDY LOAM-very loose to loose (A-2) <u>356.2</u>				SAND-brown-medium dense (A-3) <u>353.7</u>			
SAND-brown-medium dense (A-3) <u>353.7</u>				SAND-gray-medium dense (A-3) <u>351.2</u>			
WOOD (A-B) <u>348.7</u>				SAND-brown & gray-dense (A-3) <u>346.2</u>			
SAND-brown & gray-dense (A-3) <u>346.2</u>				SAND & GRAVEL-brown & gray-medium dense (A-1) <u>341.2</u>			
SAND & GRAVEL-brown & gray-medium dense (A-1) <u>341.2</u>				SAND-brown & gray-dense (A-3) <u>356.2</u>			
SAND-brown & gray-dense (A-3) <u>356.2</u>				SAND-brown-medium dense (A-3) <u>353.7</u>			
SAND-brown-medium dense (A-3) <u>353.7</u>				SAND-gray-medium dense (A-3) <u>351.2</u>			
WOOD (A-B) <u>348.7</u>				SAND-brown & gray-dense (A-3) <u>346.2</u>			
SAND-brown & gray-dense (A-3) <u>346.2</u>				SAND & GRAVEL-brown & gray-medium dense (A-1) <u>341.2</u>			
SAND & GRAVEL-brown & gray-medium dense (A-1) <u>341.2</u>				SAND-brown & gray-dense (A-3) <u>356.2</u>			
SAND-brown & gray-dense (A-3) <u>356.2</u>				SAND-brown-medium dense (A-3) <u>353.7</u>			
SAND-brown-medium dense (A-3) <u>353.7</u>				SAND-gray-medium dense (A-3) <u>351.2</u>			
WOOD (A-B) <u>348.7</u>				SAND-brown & gray-dense (A-3) <u>346.2</u>			
SAND-brown & gray-dense (A-3) <u>346.2</u>				SAND & GRAVEL-brown & gray-medium dense (A-1) <u>341.2</u>			
SAND & GRAVEL-brown & gray-medium dense (A-1) <u>341.2</u>				SAND-brown & gray-dense (A-3) <u>356.2</u>			
SAND-brown & gray-dense (A-3) <u>356.2</u>				SAND-brown-medium dense (A-3) <u>353.7</u>			
SAND-brown-medium dense (A-3) <u>353.7</u>				SAND-gray-medium dense (A-3) <u>351.2</u>			
WOOD (A-B) <u>348.7</u>				SAND-brown & gray-dense (A-3) <u>346.2</u>			
SAND-brown & gray-dense (A-3) <u>346.2</u>				SAND & GRAVEL-brown & gray-medium dense (A-1) <u>341.2</u>			
SAND & GRAVEL-brown & gray-medium dense (A-1) <u>341.2</u>				SAND-brown & gray-dense (A-3) <u>356.2</u>			
SAND-brown & gray-dense (A-3) <u>356.2</u>				SAND-brown-medium dense (A-3) <u>353.7</u>			
SAND-brown-medium dense (A-3) <u>353.7</u>				SAND-gray-medium dense (A-3) <u>351.2</u>			
WOOD (A-B) <u>348.7</u>				SAND-brown & gray-dense (A-3) <u>346.2</u>			
SAND-brown & gray-dense (A-3) <u>346.2</u>				SAND & GRAVEL-brown & gray-medium dense (A-1) <u>341.2</u>			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in *italics* above moist (%)
NR-No Recovery

SB-126

SOIL BORING LOG				PAGE <u>3</u> of <u>4</u>			
				DATE <u>4/29-30/2009</u>			
				LOGGED BY <u>DR</u>			
				GSI JOB No. <u>08201</u>			
ROUTE <u>I70/I13</u> DESCRIPTION <u>I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08</u>				SECTION <u>82-2-1HVB-1</u> LOCATION <u>I-70 & Illinois Route 3</u>			
COUNTY <u>St. Clair</u> DRILLING METHOD <u>3.25" Hollow Stem Auger</u> HAMMER TYPE <u>CME Automatic</u>							
STRUCT. NO. <u>082-W309</u> Station: <u>---</u>		DEPT T H S		BLU O W Qu		MOC I S T	
BORING NO. <u>SB-126</u> Station: <u>1681+98</u> Offset: <u>39.5' Right</u> Ground Surface Elev. <u>416.7</u>		(ft) (/6") (tsf) (%)		Surface Water Elev. <u>n/a</u> Stream Bed Elev. <u>n/a</u> Groundwater Elevation: First Encounter <u>n/a</u> Upon Completion <u>n/a</u> After 24 Hrs. <u>395.7</u>		(ft) (/6") (tsf) (%)	
SAND-brown & gray-dense (A-3) <u>336.2</u>				SAND with Gravel (A-1-b) <u>316.2</u>			
SAND with Gravel-brown & gray-medium dense (A-1-b) <u>333.7</u>				SAND-brown & gray-dense to very dense (A-3) <u>308.7</u>			
SAND-brown & gray-medium dense (A-3) <u>331.2</u>				Trace organics from -86.0' to -87.5'. <u>308.7</u>			
Trace organics from -86.0' to -87.5'. <u>308.7</u>				SAND with Gravel-brown & gray-medium dense (A-1-b) <u>301.2</u>			
SAND with Gravel-brown & gray-medium dense (A-1-b) <u>301.2</u>				SAND with Gravel-brown & gray-very dense (A-1-b) <u>301.2</u>			
SAND with Gravel-brown & gray-very dense (A-1-b) <u>301.2</u>				SAND & GRAVEL-brown & gray-medium dense (A-1) <u>301.2</u>			
SAND & GRAVEL-brown & gray-medium dense (A-1) <u>301.2</u>				SAND-brown & gray-dense (A-3) <u>301.2</u>			
SAND-brown & gray-dense (A-3) <u>301.2</u>				RUN 1 (-115.5' to -125.5') Mississippi System, Valmeyerian Series Limestone Light gray to gray & fine grained with horizontal bedding. Weathered to -115.4'. Horizontal fractures @ -115.9', -116.3', -116.4', -116.9', -117.4', -117.8', -118.1', -118.4', -118.8', -119.1', -119.4', -119.6', -120.1' & -120.5'. 1/2" clay parting @ -120.6'. <u>301.2</u>		RUN 1	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in *italics* above moist (%)
NR-No Recovery

DATE: 04/29/09 11:55 AM
USER: DR
PROJECT: I-70/IL 3 INTERCHANGE (I-70/IL 3 INTERCHANGE)
JOB NO: 08201
SHEET: 14 OF 21
STATION: 1681+98
BORING NO: SB-126
GSI JOB NO: 08201
DRILLING METHOD: 3.25" Hollow Stem Auger
HAMMER TYPE: CME Automatic
LOGGED BY: DR
DATE: 4/29-30/2009

TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	FILE NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER I-70	SOIL BORING LOGS 14 OF 21			F.A.P. RTE. 998 SECTION 82-2-1HVB-1 COUNTY ST. CLAIR TOTAL SHEETS 345 SHEET NO. 185
	#FILE#	DRAWN - TCG	REVISED -		SCALE: SHEET NO. SA-50 OF SA-57 STA. 1683+43.17 TO STA.			
	PLOT SCALE = \$SCALE#	CHECKED - JLR	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
	PLOT DATE = \$DATE#	DATE - 05/13/11	REVISED -		CONTRACT NO. 76D05			

SB-126

SB-126 Run-1

SB-126 Run-2&3

PAGE 4 of 4
DATE 4/29-30/2009
LOGGED BY DR
CSI JOB No. 08201

SOIL BORING LOG

ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 082-W309
Stcn: --
BORING NO. **SB-126**
Station: 1681+98
Offset: 39.5' Right
Ground Surface Elev. 416.7

DEPTH (ft)	BLOW COUNT (blows/ft)	UNSATURATED QUANTITY (%)	MOISTURE (%)	DEPT (ft)	BLOW COUNT (blows/ft)	UNSATURATED QUANTITY (%)	MOISTURE (%)
Surface Water Elev. n/a							
Stream Bed Elev. n/a							
Groundwater Elevation:							
First Encounter n/a							
Upon Completion n/a							
After 24 Hrs. 395.7							
Horizontal fractures @ -121.1', -122.2', -122.7', -123.3', -123.8' & -124.4'							
Recovery=100.0% R.Q.D.=79.5%							
RUN 1							
RUN 2 (-125.5' to -128.0') Valmeyeran Series Limestone Light gray to gray with horizontal bedding. Fine grained with some varving & chert replacement. Recovery=100.0% R.Q.D.=56.0% 288.7							
RUN 2							
RUN 3 (-128.0' to -131.0') Valmeyeran Series Limestone Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Recovery=100.0% R.Q.D.=38.3% 285.7							
RUN 3							
End Of Boring @ -131.0' Hollow Stem Augers To -10.0' Rotary Drilling To Completion CME Automatic Hammer 10' Of 4" Casing Used							

PAGE 1 of 2
DATE 4/29-30/2009
LOGGED BY DR
CSI JOB No. 08201

ROCK CORE LOG

ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3
COUNTY St. Clair CORING METHOD Rotary Wash

STRUCT. NO. 082-W309
Stcn: --
BORING NO. **SB-126**
Station: 1681+98
Offset: 39.5' Right
Ground Surface Elev. 416.7

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 301.2
Begin Core Elev. 301.2

DEPTH (ft)	CORRECTION (%)	RECOVERY (%)	R.Q.D. (%)	CORRECTION (min/ft)	STRENGTH (tsf)
301.2	1	100.0	79.5	n/a	8999 -117.0
RUN 1 (-115.5' to -125.5') Mississippian System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Weathered to -116.4'. Horizontal fractures @ -115.9', -116.3', -116.4', -116.9', -117.4', -117.8', -118.1', -118.4', -118.8', -119.1', -119.4', -119.6', -120.1' & -120.5'. 1/2" clay parting @ -120.6'. Horizontal fractures @ -121.1', -122.2', -122.7', -123.3', -123.8' & -124.4'.					
Color pictures of the cores Yes Cores will be stored for examination for XX The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)					

PAGE 2 of 2
DATE 4/29-30/2009
LOGGED BY DR
CSI JOB No. 08201

ROCK CORE LOG

ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3
COUNTY St. Clair CORING METHOD Rotary Wash

STRUCT. NO. 082-W309
Stcn: --
BORING NO. **SB-126**
Station: 1681+98
Offset: 39.5' Right
Ground Surface Elev. 416.7

CORING BARREL TYPE & SIZE NX Double Swivel-10 ft
Core Diameter 2.0 in
Top of Rock Elev. 301.2
Begin Core Elev. 301.2

DEPTH (ft)	CORRECTION (%)	RECOVERY (%)	R.Q.D. (%)	CORRECTION (min/ft)	STRENGTH (tsf)
291.2	2	100.0	56.0	n/a	11009 -125.3
RUN 2 (-125.5' to -128.0') Mississippian System, Valmeyeran Series Limestone Light gray to gray with horizontal bedding. Fine grained with some varving & chert replacement. Horizontal fractures @ -125.5', -126.5', -127.0', -127.3', -127.6' & -127.8'.					
288.7	3	100.0	38.3	n/a	n/a
RUN 3 (-128.0' to -131.0') Mississippian System, Valmeyeran Series Limestone Light gray to gray with horizontal bedding. Fine grained with some chert replacement. Horizontal fractures @ -128.3', -128.5', -128.9', -129.0', -129.4', -129.7', -130.0', -130.4' & -130.7'.					
Color pictures of the cores Yes Cores will be stored for examination for XX The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)					

5-11-2011 9:55:20
 \\P0999-COM-99-001-MS-DCL-0820316-COM-99-001-FILED
 NEWARK MD \NTS 8024\AMVA\JLD_TRAN\87\2202\20858-001\STRUCT\CAD\DESIGN\0820328\SHEET\0820328-COM-10-019-SHT-MS.DGN



SB-128

SB-128 Run-1

SB-128 Run-2

SOIL BORING LOG				PAGE 4 of 4			
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08				DATE 5/5-7/2009			
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3				LOGGED BY MR			
COUNTY St. Clair DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic				GSI JOB No. 08201			
STRUCT. NO. 082-0328				Surface Water Elev. n/a			
Station: --				Stream Bed Elev. n/a			
BORING NO. SB-128				Groundwater Elevation:			
Station: 1684+68				First Encounter n/a			
Offset: 47.0' Right				Upon Completion n/a			
Ground Surface Elev. 416.6				After 24 Hrs. n/a			
DEPTH (ft)	BLW (ft)	UCS (tsf)	MOIST (%)	DEPTH (ft)	BLW (ft)	UCS (tsf)	MOIST (%)
fractures from -123.3' to -125.0'							
Recovery=100.0% R.Q.D.=66.0%							
RUN 1							
291.6-125							
RUN 1 (-125.0' to -130.0') Mississippi System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -125.3' & -125.6'. 1/4" clay parting @ -125.8'. Vertical fracture with intersecting horizontal fractures from -126.1' to -126.8'. Horizontal fractures @ -127.3', -127.7', -128.5', -128.9', -129.4' & -129.5'. Recovery=100.0% R.Q.D.=62.0% 286.6-130							
RUN 2							
End Of Boring @ -130.0' Hollow Stem Augers To -8.5' Rotary Drilling To Completion CME Automatic Hammer 8.5' Of 4" Casing Used 3" Casing Used							

ROCK CORE LOG				PAGE 1 of 2			
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08				DATE 5/5-7/2009			
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3				LOGGED BY MR			
COUNTY St. Clair CORING METHOD Rotary Wash				GSI JOB No. 08201			
STRUCT. NO. 082-0328				CORING BARREL TYPE & SIZE NX Double Swivel-10 ft			
Station: --				Core Diameter 2.0 in			
BORING NO. SB-128				Top of Rock Elev. 302.1			
Station: 1684+68				Begin Core Elev. 301.6			
Offset: 47.0' Right				Ground Surface Elev. 416.6			
DEPTH (ft)	CORRECTION (%)	RECOVERY (%)	R.Q.D. (%)	CORRECTION (min/ft)	STRENGTH (tsf)	DEPTH (ft)	CORRECTION (%)
301.6	100.0	66.0	n/a	87.4	-116.5		
RUN 1 (-115.0' to -125.0') Mississippi System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -115.2', -115.6', -115.7', -115.8', -116.0', -116.3', -116.5', -118.8', -119.3', -120.0', -120.3', -120.5', -120.7', -121.3', -121.7', -122.2' & -122.9'. Highly fractured with intersecting horizontal & vertical fractures from -123.3' to -125.0'.							

ROCK CORE LOG				PAGE 2 of 2			
ROUTE 170/IL3 DESCRIPTION I-70/Relocated IL 3 Interchange IDOT Job No. D-98-059-08				DATE 5/5-7/2009			
SECTION 82-2-1HVB-1 LOCATION I-70 & Illinois Route 3				LOGGED BY MR			
COUNTY St. Clair CORING METHOD Rotary Wash				GSI JOB No. 08201			
STRUCT. NO. 082-0328				CORING BARREL TYPE & SIZE NX Double Swivel-10 ft			
Station: --				Core Diameter 2.0 in			
BORING NO. SB-128				Top of Rock Elev. 302.1			
Station: 1684+68				Begin Core Elev. 301.6			
Offset: 47.0' Right				Ground Surface Elev. 416.6			
DEPTH (ft)	CORRECTION (%)	RECOVERY (%)	R.Q.D. (%)	CORRECTION (min/ft)	STRENGTH (tsf)	DEPTH (ft)	CORRECTION (%)
291.6	100.0	62.0	n/a	120.0	-127.3		
RUN 1 (-125.0' to -130.0') Mississippi System, Valmeyeran Series Limestone Light gray to gray & fine grained with horizontal bedding. Horizontal fractures @ -125.3' & -125.6'. 1/4" clay parting @ -125.8'. Vertical fracture with intersecting horizontal fractures from -126.1' to -126.8'. Horizontal fractures @ -127.3', -127.7', -128.5', -128.9', -129.4' & -129.5'.							

The Uncorrected Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

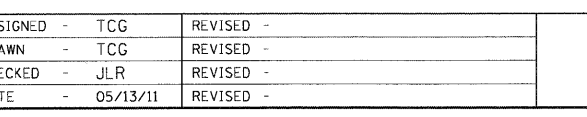
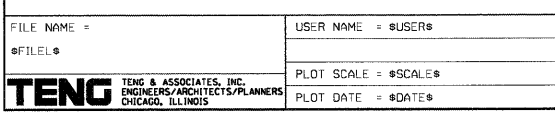
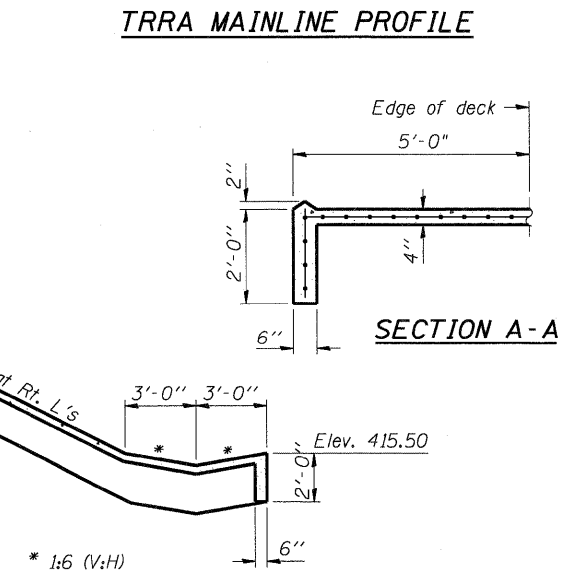
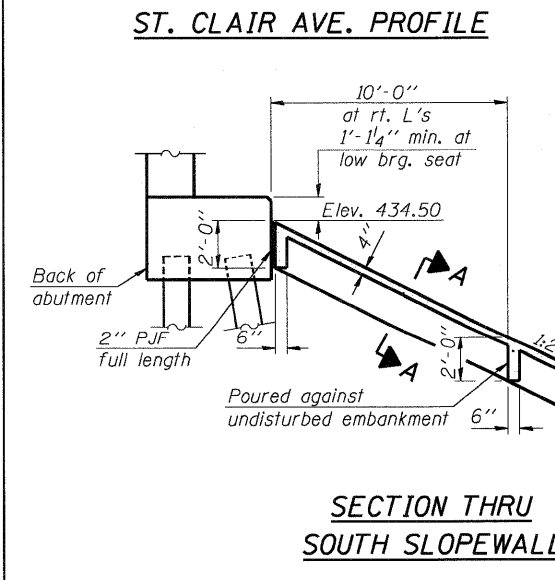
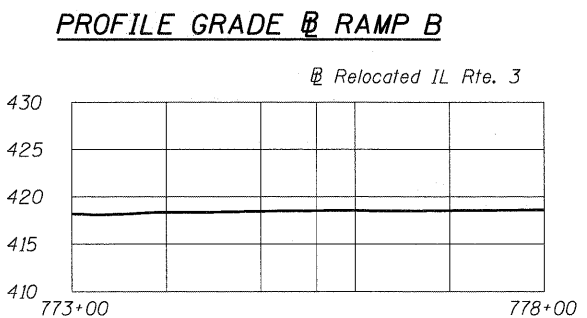
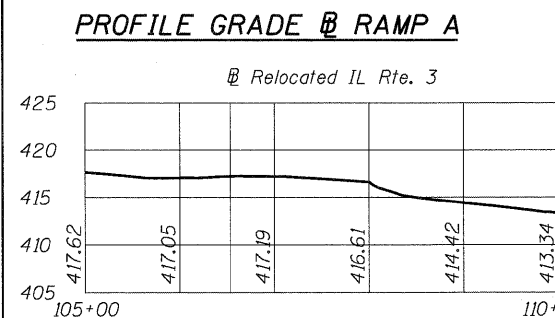
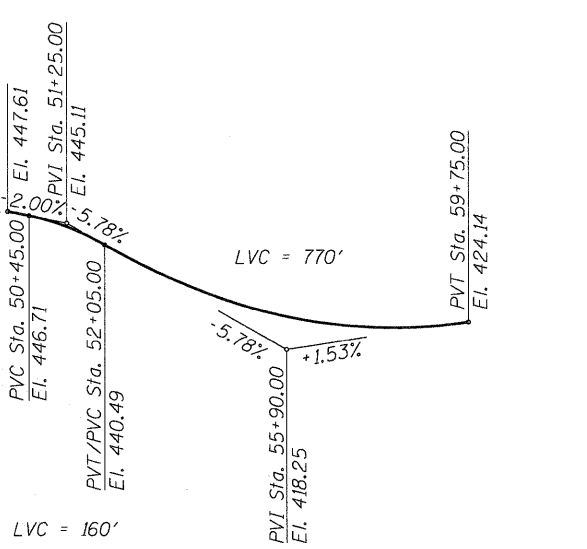
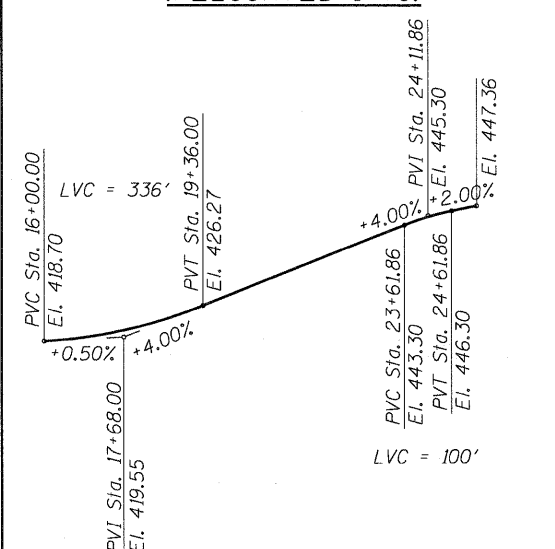
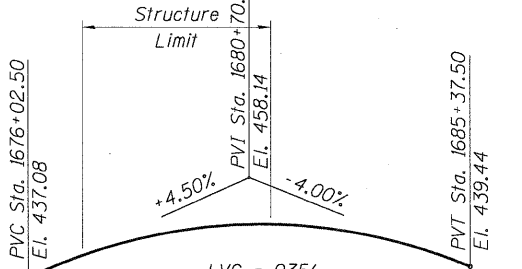
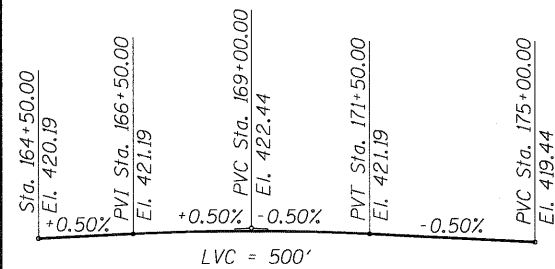
Color pictures of the cores Yes Cores will be stored for examination for XX
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

Color pictures of the cores Yes Cores will be stored for examination for XX
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

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 NEWPANNING \N\9804\WORK\VALU\ID-THANS 07-2202-2008B-000\STRUCT\CAD\01 DESIGN\0820328\VIEW\0820328.CONN-10-023-SHT-MS.DGN

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER I-70	SOIL BORING LOGS 19 OF 21			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - TCG	REVISED -		998	82-2-1HVB-1	ST. CLAIR	345	190			
	PLOT SCALE = \$SCALE\$	CHECKED - JLR	REVISED -		SN 082-0328			CONTRACT NO. 76D05				
	PLOT DATE = \$DATE\$	DATE - 05/13/11	REVISED -		SCALE:	SHEET NO. SA-55 OF SA-57	STA. 1683+43.17 TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			





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- SB-2 General Data
- SB-3 Foundation Layout
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- SB-5 Top of Slab Elevations, 2 of 5
- SB-6 Top of Slab Elevations, 3 of 5
- SB-7 Top of Slab Elevations, 4 of 5
- SB-8 Top of Slab Elevations, 5 of 5
- SB-9 Top of Approach Slab Elevations
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- SB-11 Deck Plan, 2 of 3
- SB-12 Deck Plan, 3 of 3
- SB-13 Deck Cross Sections
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- SB-17 Parapet Elevations, 2 of 2
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- SB-19 Deck Bar List
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- SB-22 Expansion Joint Details
- SB-23 Framing Plan
- SB-24 Girder Elevations
- SB-25 Girder Tables, 1 of 2
- SB-26 Girder Tables, 2 of 2
- SB-27 Steel Details, 1 of 2
- SB-28 Steel Details, 2 of 2
- SB-29 Bearing Details
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- SB-32 South Abutment, East Wingwall & Details
- SB-33 South Abutment, West Wingwall & Details
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- SB-36 Pier 2, Plan & Elevation
- SB-37 Pier 2, Sections & Details
- SB-38 North Abutment, Plan & Pile Layout
- SB-39 North Abutment, Elevation & Sections
- SB-40 North Abutment, East Wingwall & Details
- SB-41 North Abutment, West Wingwall & Details
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DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications, 5th Edition

DESIGN STRESSES

FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (M270 Grade 50, Primary Members)
 $f_y = 36,000$ psi (M270 Grade 36, Secondary Members)

LOADING HL-93

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

STATION 1679+16.65
 BUILT 2011 BY
 STATE OF ILLINOIS
 F.A.P. RTE. 14 SEC. 82-2-1HVB-1
 LOADING HL-93
 STRUCTURE NO. 082-0329

NAME PLATE

See Std. 515001

SEISMIC DATA*

Soil Site Class = D

Return Period, Tr [Yrs]	1000
Design Spectral Accel. at 1.0 sec, SD1 [g]	0.20
Design Spectral Accel. at 0.2 sec, SDS [g]	0.39
Importance Category	Essential
Seismic Performance Zone	2

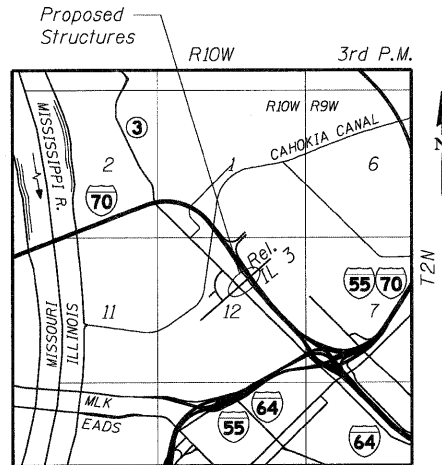
* Seismic Data based on site-specific analysis.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	Cu Yd		644	644
Concrete Structures	Cu Yd	29.6	769.8	799.4
Concrete Superstructure	Cu Yd	1,026.3		1,026.3
Bridge Deck Grooving	Sq Yd	1,977		1,977
Protective Coat	Sq Yd	3,455		3,455
Furnishing and Erecting Structural Steel	L Sum	0.80		0.80
Stud Shear Connectors	Each	16,713		16,713
Reinforcement Bars, Epoxy Coated	Pound	248,150	106,020	354,170
Bar Splicers	Each		145	145
Bridge Fence Railing	Foot	905		905
Slope Wall 4"	Sq Yd		422	422
Furnishing Metal Shell Piles 14"x0.250"	Foot		6,136	6,136
Driving Piles	Foot		6,136	6,136
Test Pile Metal Shells	Each		4	4
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot		141	141
Elastomeric Bearing Assembly, Type II	Each		21	21
Anchor Bolts, 1"	Each		42	42
Anchor Bolts, 1 1/2"	Each		80	80
Concrete Sealer	Sq Ft		1,694	1,694
Geocomposite Wall Drain	Sq Yd		53	53
Porous Granular Embankment, Special	Cu Yd		116	116
Drainage Scuppers, DS-11	Each	7		7
Pipe Underdrains for Structures 4"	Foot		107	107

GENERAL NOTES

1. Fasteners shall be AASHTO M164 Type I, mechanically galvanized bolts. Bolts ¹/₈ in. ϕ , holes ¹⁵/₁₆ in. ϕ , unless otherwise noted.
2. Calculated weight of Structural Steel = 1,159,370 lbs.
Grade 50 = 1,125,270 lbs.
Grade 36 = 34,100 lbs.
3. No field welding is permitted except as specified in the contract documents.
4. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ¹/₈ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
7. Concrete Sealer shall be applied to the designated areas of the abutments.
8. The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be gray, Munsell No. 5B 7/1. See Special Provision for "Cleaning and Painting New Metal Structures".
9. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
10. Slope wall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x W4.0, weighing 58 lbs per 100 sq ft.
11. Slipforming of the parapets shall not be allowed.
12. Light pole foundations and buried conduit shown on Sht. SB-1 to be installed in this contract. Light poles to be installed by others. See electrical plans.



LOCATION SKETCH

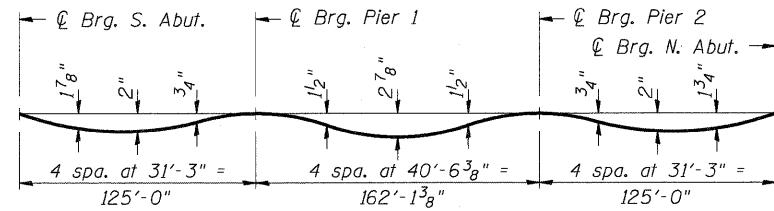
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#FILE#	PLOT SCALE = #SCALE#	DRAWN - TCG	REVISED -		SCALE:	SHEET NO. SB-2 OF SB-63	STA. 1679+16.65 TO STA.	SN 082-0329		CONTRACT NO. 76D05		
	PLOT DATE = #DATE#	CHECKED - JLR	REVISED -									
		DATE - 05/13/11	REVISED -									



0820329 CON-10-002-IL.DGN, 0820318 CON-09-001-00.DGN, NEWPWIN.DWG, 11-5-2011, 10:52:52
 \\S-0804\user\jll\j.d\TRANS_071_2202_20886-001\STRUCT\CD\01_DESIGN\0820329\SHEET\0820329-CON-10-001-SHT-SN.DGN

GIRDER 1

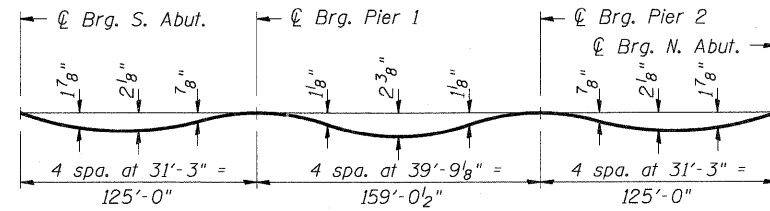
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1677+17.25	-43.63	440.78	440.78
☉ Exp. Jt.	1677+19.34	-43.63	440.85	440.85
☉ Brg. S. Abut.	1677+20.50	-43.63	440.89	440.89
A	1677+30.50	-43.63	441.23	441.29
B	1677+40.50	-43.63	441.56	441.67
C	1677+50.50	-43.63	441.88	442.03
D	1677+60.50	-43.63	442.19	442.37
E	1677+70.50	-43.63	442.50	442.68
F	1677+80.50	-43.63	442.79	442.96
G	1677+90.50	-43.63	443.07	443.22
H	1678+00.50	-43.63	443.35	443.46
I	1678+10.50	-43.63	443.61	443.69
J	1678+20.50	-43.63	443.87	443.91
K	1678+30.50	-43.63	444.12	444.14
☉ Brg. Pier 1	1678+45.50	-43.63	444.47	444.47
L	1678+55.50	-43.63	444.70	444.71
M	1678+65.50	-43.63	444.91	444.95
N	1678+75.50	-43.63	445.12	445.20
O	1678+85.50	-43.63	445.32	445.44
P	1678+95.50	-43.63	445.50	445.67
Q	1679+05.50	-43.63	445.68	445.88
R	1679+15.50	-43.63	445.85	446.08
S	1679+25.50	-43.63	446.02	446.25
T	1679+35.50	-43.63	446.17	446.39
U	1679+45.50	-43.63	446.31	446.52
V	1679+55.50	-43.63	446.44	446.62
W	1679+65.50	-43.63	446.57	446.70
X	1679+75.50	-43.63	446.68	446.77
Y	1679+85.50	-43.63	446.79	446.84
Z	1679+95.50	-43.63	446.89	446.91
AA	1680+07.61	-43.63	446.99	446.99
☉ Brg. Pier 2	1680+17.61	-43.63	447.07	447.08
AB	1680+27.61	-43.63	447.14	447.17
AC	1680+37.61	-43.63	447.20	447.26
AD	1680+47.61	-43.63	447.25	447.34
AE	1680+57.61	-43.63	447.29	447.42
AF	1680+67.61	-43.63	447.32	447.48
AG	1680+77.61	-43.63	447.35	447.52
AH	1680+87.61	-43.63	447.36	447.53
AI	1680+97.61	-43.63	447.36	447.52
AJ	1681+07.61	-43.63	447.35	447.48
AK	1681+17.61	-43.63	447.34	447.42
AL	1681+32.61	-43.63	447.29	447.29
☉ Brg. N. Abut.	1681+33.89	-43.63	447.29	447.29
☉ Exp. Jt.	1681+36.20	-43.63	447.28	447.28
Bk. N. Abut.				



DEAD LOAD DEFLECTION DIAGRAM - GIRDER 1
(Includes weight of concrete only.)

GIRDER 2

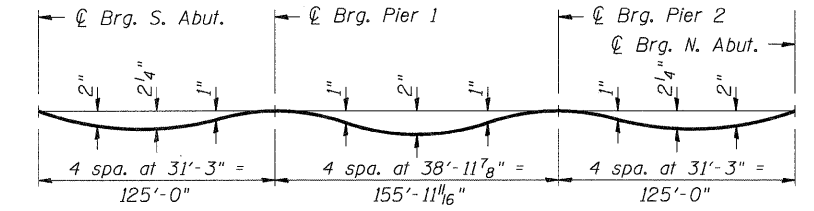
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1677+17.25	-37.04	440.91	440.91
☉ Exp. Jt.	1677+19.34	-37.04	440.99	440.99
☉ Brg. S. Abut.	1677+20.50	-37.04	441.03	441.03
A	1677+30.50	-37.04	441.36	441.43
B	1677+40.50	-37.04	441.69	441.81
C	1677+50.50	-37.04	442.01	442.17
D	1677+60.50	-37.04	442.33	442.51
E	1677+70.50	-37.04	442.63	442.82
F	1677+80.50	-37.04	442.92	443.10
G	1677+90.50	-37.04	443.20	443.36
H	1678+00.50	-37.04	443.48	443.60
I	1678+10.50	-37.04	443.74	443.83
J	1678+20.50	-37.04	444.00	444.05
K	1678+30.50	-37.04	444.25	444.27
☉ Brg. Pier 1	1678+45.50	-37.04	444.60	444.60
L	1678+55.50	-37.04	444.83	444.84
M	1678+65.50	-37.04	445.04	445.08
N	1678+75.50	-37.04	445.25	445.31
O	1678+85.50	-37.04	445.45	445.55
P	1678+95.50	-37.04	445.64	445.77
Q	1679+05.50	-37.04	445.82	445.98
R	1679+15.50	-37.04	445.99	446.17
S	1679+25.50	-37.04	446.15	446.34
T	1679+35.50	-37.04	446.30	446.48
U	1679+45.50	-37.04	446.44	446.60
V	1679+55.50	-37.04	446.58	446.71
W	1679+65.50	-37.04	446.70	446.80
X	1679+75.50	-37.04	446.82	446.88
Y	1679+85.50	-37.04	446.92	446.95
Z	1679+95.50	-37.04	447.02	447.03
AA	1680+04.54	-37.04	447.10	447.10
☉ Brg. Pier 2	1680+14.54	-37.04	447.18	447.19
AB	1680+24.54	-37.04	447.25	447.29
AC	1680+34.54	-37.04	447.31	447.38
AD	1680+44.54	-37.04	447.37	447.47
AE	1680+54.54	-37.04	447.41	447.56
AF	1680+64.54	-37.04	447.45	447.62
AG	1680+74.54	-37.04	447.47	447.66
AH	1680+84.54	-37.04	447.49	447.68
AI	1680+94.54	-37.04	447.49	447.67
AJ	1681+04.54	-37.04	447.49	447.63
AK	1681+14.54	-37.04	447.48	447.57
AL	1681+29.54	-37.04	447.44	447.44
☉ Brg. N. Abut.	1681+30.82	-37.04	447.44	447.44
☉ Exp. Jt.	1681+33.13	-37.04	447.43	447.43
Bk. N. Abut.				



DEAD LOAD DEFLECTION DIAGRAM - GIRDER 2
(Includes weight of concrete only.)

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1677+17.25	-30.46	441.05	441.05
☉ Exp. Jt.	1677+19.34	-30.46	441.12	441.12
☉ Brg. S. Abut.	1677+20.50	-30.46	441.16	441.16
A	1677+30.50	-30.46	441.50	441.56
B	1677+40.50	-30.46	441.83	441.94
C	1677+50.50	-30.46	442.15	442.31
D	1677+60.50	-30.46	442.46	442.65
E	1677+70.50	-30.46	442.76	442.96
F	1677+80.50	-30.46	443.05	443.24
G	1677+90.50	-30.46	443.34	443.50
H	1678+00.50	-30.46	443.61	443.75
I	1678+10.50	-30.46	443.88	443.97
J	1678+20.50	-30.46	444.13	444.19
K	1678+30.50	-30.46	444.38	444.41
☉ Brg. Pier 1	1678+45.50	-30.46	444.73	444.73
L	1678+55.50	-30.46	444.96	444.97
M	1678+65.50	-30.46	445.18	445.20
N	1678+75.50	-30.46	445.38	445.43
O	1678+85.50	-30.46	445.58	445.66
P	1678+95.50	-30.46	445.77	445.88
Q	1679+05.50	-30.46	445.95	446.09
R	1679+15.50	-30.46	446.12	446.27
S	1679+25.50	-30.46	446.28	446.44
T	1679+35.50	-30.46	446.43	446.58
U	1679+45.50	-30.46	446.57	446.70
V	1679+55.50	-30.46	446.71	446.81
W	1679+65.50	-30.46	446.83	446.90
X	1679+75.50	-30.46	446.95	446.99
Y	1679+85.50	-30.46	447.05	447.07
Z	1679+95.50	-30.46	447.15	447.16
AA	1680+01.47	-30.46	447.21	447.21
☉ Brg. Pier 2	1680+11.47	-30.46	447.29	447.30
AB	1680+21.47	-30.46	447.36	447.41
AC	1680+31.47	-30.46	447.43	447.51
AD	1680+41.47	-30.46	447.48	447.60
AE	1680+51.47	-30.46	447.53	447.68
AF	1680+61.47	-30.46	447.57	447.75
AG	1680+71.47	-30.46	447.60	447.79
AH	1680+81.47	-30.46	447.62	447.81
AI	1680+91.47	-30.46	447.63	447.81
AJ	1681+01.47	-30.46	447.63	447.77
AK	1681+11.47	-30.46	447.62	447.71
AL	1681+26.47	-30.46	447.59	447.59
☉ Brg. N. Abut.	1681+27.75	-30.46	447.59	447.59
☉ Exp. Jt.	1681+30.06	-30.46	447.58	447.58
Bk. N. Abut.				



DEAD LOAD DEFLECTION DIAGRAM - GIRDER 3
(Includes weight of concrete only.)

NOTE:

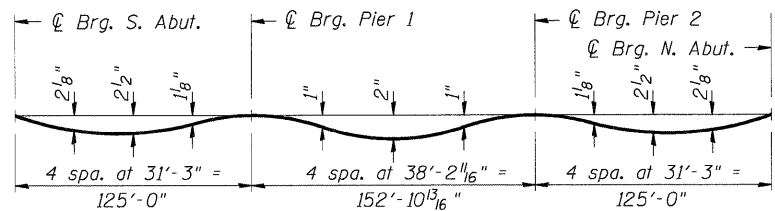
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown above.

5:11:2011 9:55:42 \S:\5\804\AKA\VALU_ID-TRANS_07\2202\08068_08\1\5\TRUCK\CAD\01_DESIGN\802329\SHEET\082329.DGN 18_082-SHT-SP.DGN

FILE NAME =	USER NAME = #USERS	DESIGNED - TCG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER TRRA & ST. CLAIR AVENUE	TOP OF SLAB ELEVATIONS 2 OF 5	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#	PLOT SCALE = #SCALE#	DRAWN - TCG	REVISED -			998	82-2-IHV-1	ST. CLAIR	345	197	
TENG TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS	PLOT DATE = #DATE#	CHECKED - JLR	REVISED -			SN 082-0329 CONTRACT NO. 76D05					
		DATE - 05/13/11	REVISED -			SCALE:	SHEET NO. SB-5 OF SB-63	STA. 1679+16.65 TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

GIRDER 4

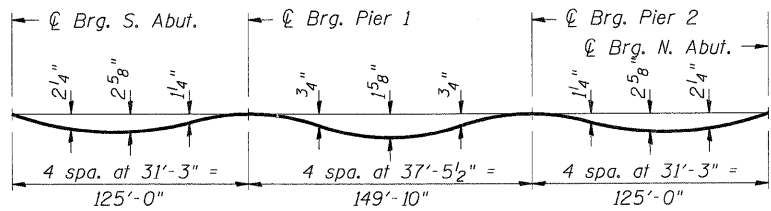
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1677+17.25	-23.88	441.18	441.18
⊕ Exp. Jt.	1677+19.34	-23.88	441.25	441.25
⊕ Brg. S. Abut.	1677+20.50	-23.88	441.29	441.29
A	1677+30.50	-23.88	441.63	441.70
B	1677+40.50	-23.88	441.96	442.08
C	1677+50.50	-23.88	442.28	442.45
D	1677+60.50	-23.88	442.59	442.80
E	1677+70.50	-23.88	442.89	443.11
F	1677+80.50	-23.88	443.18	443.40
G	1677+90.50	-23.88	443.47	443.66
H	1678+00.50	-23.88	443.74	443.89
I	1678+10.50	-23.88	444.01	444.12
J	1678+20.50	-23.88	444.26	444.33
K	1678+30.50	-23.88	444.51	444.54
⊕ Brg. Pier 1	1678+45.50	-23.88	444.87	444.87
L	1678+55.50	-23.88	445.09	445.10
M	1678+65.50	-23.88	445.31	445.33
N	1678+75.50	-23.88	445.51	445.57
O	1678+85.50	-23.88	445.71	445.80
P	1678+95.50	-23.88	445.90	446.02
Q	1679+05.50	-23.88	446.08	446.23
R	1679+15.50	-23.88	446.25	446.41
S	1679+25.50	-23.88	446.41	446.58
T	1679+35.50	-23.88	446.56	446.72
U	1679+45.50	-23.88	446.71	446.83
V	1679+55.50	-23.88	446.84	446.94
W	1679+65.50	-23.88	446.96	447.03
X	1679+75.50	-23.88	447.08	447.11
Y	1679+85.50	-23.88	447.19	447.20
Z	1679+95.50	-23.88	447.28	447.29
AA	1679+98.40	-23.88	447.31	447.31
⊕ Brg. Pier 2	1680+08.40	-23.88	447.40	447.41
AB	1680+18.40	-23.88	447.47	447.52
AC	1680+28.40	-23.88	447.54	447.63
AD	1680+38.40	-23.88	447.60	447.73
AE	1680+48.40	-23.88	447.65	447.82
AF	1680+58.40	-23.88	447.69	447.89
AG	1680+68.40	-23.88	447.72	447.94
AH	1680+78.40	-23.88	447.74	447.96
AI	1680+88.40	-23.88	447.75	447.95
AJ	1680+98.40	-23.88	447.76	447.92
AK	1681+08.40	-23.88	447.75	447.85
AL	1681+23.40	-23.88	447.73	447.73
⊕ Brg. N. Abut.	1681+24.68	-23.88	447.73	447.73
⊕ Exp. Jt.	1681+26.99	-23.88	447.72	447.72
Bk. N. Abut.				



DEAD LOAD DEFLECTION DIAGRAM - GIRDER 4
(Includes weight of concrete only.)

GIRDER 5

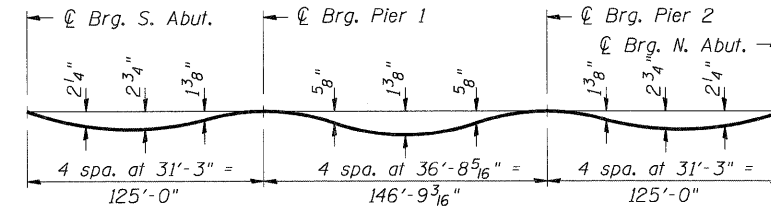
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1677+17.25	-17.29	441.31	441.31
⊕ Exp. Jt.	1677+19.34	-17.29	441.38	441.38
⊕ Brg. S. Abut.	1677+20.50	-17.29	441.42	441.42
A	1677+30.50	-17.29	441.76	441.83
B	1677+40.50	-17.29	442.09	442.22
C	1677+50.50	-17.29	442.41	442.59
D	1677+60.50	-17.29	442.72	442.93
E	1677+70.50	-17.29	443.02	443.25
F	1677+80.50	-17.29	443.32	443.54
G	1677+90.50	-17.29	443.60	443.80
H	1678+00.50	-17.29	443.87	444.04
I	1678+10.50	-17.29	444.14	444.26
J	1678+20.50	-17.29	444.40	444.47
K	1678+30.50	-17.29	444.64	444.68
⊕ Brg. Pier 1	1678+45.50	-17.29	445.00	445.00
L	1678+55.50	-17.29	445.22	445.23
M	1678+65.50	-17.29	445.44	445.46
N	1678+75.50	-17.29	445.65	445.69
O	1678+85.50	-17.29	445.84	445.92
P	1678+95.50	-17.29	446.03	446.13
Q	1679+05.50	-17.29	446.21	446.34
R	1679+15.50	-17.29	446.38	446.52
S	1679+25.50	-17.29	446.54	446.68
T	1679+35.50	-17.29	446.69	446.82
U	1679+45.50	-17.29	446.84	446.94
V	1679+55.50	-17.29	446.97	447.04
W	1679+65.50	-17.29	447.10	447.14
X	1679+75.50	-17.29	447.21	447.23
Y	1679+85.50	-17.29	447.32	447.32
Z				
AA	1679+95.33	-17.29	447.41	447.41
⊕ Brg. Pier 2	1680+05.33	-17.29	447.50	447.52
AB	1680+15.33	-17.29	447.58	447.64
AC	1680+25.33	-17.29	447.65	447.75
AD	1680+35.33	-17.29	447.71	447.85
AE	1680+45.33	-17.29	447.77	447.95
AF	1680+55.33	-17.29	447.81	448.02
AG	1680+65.33	-17.29	447.84	448.07
AH	1680+75.33	-17.29	447.87	448.09
AI	1680+85.33	-17.29	447.88	448.08
AJ	1680+95.33	-17.29	447.89	448.05
AK	1681+05.33	-17.29	447.89	447.99
AL	1681+20.33	-17.29	447.87	447.87
⊕ Brg. N. Abut.	1681+21.61	-17.29	447.86	447.86
⊕ Exp. Jt.	1681+23.92	-17.29	447.86	447.86
Bk. N. Abut.				



DEAD LOAD DEFLECTION DIAGRAM - GIRDER 5
(Includes weight of concrete only.)

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1677+17.25	-10.71	441.44	441.44
⊕ Exp. Jt.	1677+19.34	-10.71	441.51	441.51
⊕ Brg. S. Abut.	1677+20.50	-10.71	441.55	441.55
A	1677+30.50	-10.71	441.89	441.96
B	1677+40.50	-10.71	442.22	442.36
C	1677+50.50	-10.71	442.54	442.73
D	1677+60.50	-10.71	442.85	443.07
E	1677+70.50	-10.71	443.15	443.39
F	1677+80.50	-10.71	443.45	443.68
G	1677+90.50	-10.71	443.73	443.94
H	1678+00.50	-10.71	444.01	444.18
I	1678+10.50	-10.71	444.27	444.40
J	1678+20.50	-10.71	444.53	444.61
K	1678+30.50	-10.71	444.78	444.82
⊕ Brg. Pier 1	1678+45.50	-10.71	445.13	445.13
L	1678+55.50	-10.71	445.35	445.36
M	1678+65.50	-10.71	445.57	445.58
N	1678+75.50	-10.71	445.78	445.81
O	1678+85.50	-10.71	445.97	446.03
P	1678+95.50	-10.71	446.16	446.24
Q	1679+05.50	-10.71	446.34	446.44
R	1679+15.50	-10.71	446.51	446.62
S	1679+25.50	-10.71	446.67	446.78
T	1679+35.50	-10.71	446.83	446.92
U	1679+45.50	-10.71	446.97	447.04
V	1679+55.50	-10.71	447.10	447.15
W	1679+65.50	-10.71	447.23	447.25
X	1679+75.50	-10.71	447.34	447.35
Y	1679+85.50	-10.71	447.45	447.45
Z				
AA	1679+92.26	-10.71	447.52	447.52
⊕ Brg. Pier 2	1680+02.26	-10.71	447.61	447.63
AB	1680+12.26	-10.71	447.69	447.75
AC	1680+22.26	-10.71	447.76	447.87
AD	1680+32.26	-10.71	447.83	447.98
AE	1680+42.26	-10.71	447.88	448.08
AF	1680+52.26	-10.71	447.93	448.15
AG	1680+62.26	-10.71	447.96	448.20
AH	1680+72.26	-10.71	447.99	448.22
AI	1680+82.26	-10.71	448.01	448.22
AJ	1680+92.26	-10.71	448.02	448.19
AK	1681+02.26	-10.71	448.02	448.13
AL	1681+17.26	-10.71	448.00	448.00
⊕ Brg. N. Abut.	1681+18.54	-10.71	448.00	448.00
⊕ Exp. Jt.	1681+20.85	-10.71	448.00	448.00
Bk. N. Abut.				



DEAD LOAD DEFLECTION DIAGRAM - GIRDER 6
(Includes weight of concrete only.)

NOTE:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown above.

FILE NAME = USER NAME = #USER# DESIGNED - TCG REVISED - DRAWN - TCG REVISED - CHECKED - JLR REVISED - DATE - 05/13/11 REVISED -
 TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS
 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER TRRA & ST. CLAIR AVENUE
 TOP OF SLAB ELEVATIONS 3 OF 5
 SCALE: SHEET NO. SB-6 OF SB-63 STA. 1679+16.65 TO STA.
 F.A.P. RTE. 998 SECTION 82-2-1HVB-1 COUNTY ST. CLAIR TOTAL SHEETS 345 SHEET NO. 198
 SN 082-0329 CONTRACT NO. 76D05
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

GIRDER 7

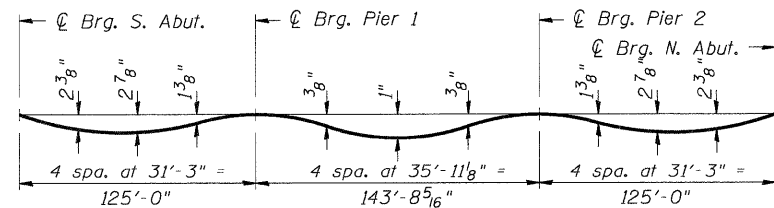
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1677+17.25	-4.13	441.57	441.57
⊕ Exp. Jt.	1677+19.34	-4.13	441.64	441.64
⊕ Brg. S. Abut.	1677+20.50	-4.13	441.68	441.68
A	1677+30.50	-4.13	442.02	442.10
B	1677+40.50	-4.13	442.35	442.49
C	1677+50.50	-4.13	442.67	442.87
D	1677+60.50	-4.13	442.98	443.21
E	1677+70.50	-4.13	443.29	443.53
F	1677+80.50	-4.13	443.58	443.82
G	1677+90.50	-4.13	443.86	444.08
H	1678+00.50	-4.13	444.14	444.32
I	1678+10.50	-4.13	444.40	444.54
J	1678+20.50	-4.13	444.66	444.75
K	1678+30.50	-4.13	444.91	444.95
⊕ Brg. Pier 1	1678+45.50	-4.13	445.26	445.26
L	1678+55.50	-4.13	445.49	445.48
M	1678+65.50	-4.13	445.70	445.71
N	1678+75.50	-4.13	445.91	445.93
O	1678+85.50	-4.13	446.11	446.15
P	1678+95.50	-4.13	446.29	446.36
Q	1679+05.50	-4.13	446.47	446.55
R	1679+15.50	-4.13	446.64	446.73
S	1679+25.50	-4.13	446.81	446.89
T	1679+35.50	-4.13	446.96	447.03
U	1679+45.50	-4.13	447.10	447.15
V	1679+55.50	-4.13	447.23	447.26
W	1679+65.50	-4.13	447.36	447.37
X	1679+75.50	-4.13	447.47	447.47
Y	1679+85.50	-4.13	447.58	447.58
Z				
AA	1679+89.19	-4.13	447.62	447.62
⊕ Brg. Pier 2	1679+99.19	-4.13	447.71	447.74
AB	1680+09.19	-4.13	447.80	447.86
AC	1680+19.19	-4.13	447.87	447.98
AD	1680+29.19	-4.13	447.94	448.10
AE	1680+39.19	-4.13	448.00	448.20
AF	1680+49.19	-4.13	448.05	448.28
AG	1680+59.19	-4.13	448.09	448.33
AH	1680+69.19	-4.13	448.12	448.36
AI	1680+79.19	-4.13	448.14	448.35
AJ	1680+89.19	-4.13	448.15	448.32
AK	1680+99.19	-4.13	448.15	448.26
AL	1681+14.19	-4.13	448.14	448.14
⊕ Brg. N. Abut.	1681+15.47	-4.13	448.14	448.14
⊕ Exp. Jt.	1681+17.78	-4.13	448.14	448.14
Bk. N. Abut.				

PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1677+17.25	0.00	441.65	441.65
⊕ Exp. Jt.	1677+19.34	0.00	441.73	441.73
⊕ Brg. S. Abut.	1677+20.50	0.00	441.77	441.77
A	1677+30.50	0.00	442.10	442.18
B	1677+40.50	0.00	442.43	442.58
C	1677+50.50	0.00	442.75	442.95
D	1677+60.50	0.00	443.07	443.30
E	1677+70.50	0.00	443.37	443.62
F	1677+80.50	0.00	443.66	443.91
G	1677+90.50	0.00	443.94	444.17
H	1678+00.50	0.00	444.22	444.41
I	1678+10.50	0.00	444.49	444.63
J	1678+20.50	0.00	444.74	444.83
K	1678+30.50	0.00	444.99	445.04
⊕ Brg. Pier 1	1678+45.50	0.00	445.34	445.34
L	1678+55.50	0.00	445.57	445.56
M	1678+65.50	0.00	445.78	445.78
N	1678+75.50	0.00	445.99	446.00
O	1678+85.50	0.00	446.19	446.22
P	1678+95.50	0.00	446.38	446.43
Q	1679+05.50	0.00	446.56	446.62
R	1679+15.50	0.00	446.73	446.80
S	1679+25.50	0.00	446.89	446.95
T	1679+35.50	0.00	447.04	447.09
U	1679+45.50	0.00	447.18	447.22
V	1679+55.50	0.00	447.32	447.33
W	1679+65.50	0.00	447.44	447.44
X	1679+75.50	0.00	447.56	447.55
Y				
Z				
AA	1679+87.27	0.00	447.68	447.68
⊕ Brg. Pier 2	1679+97.27	0.00	447.78	447.81
AB	1680+07.27	0.00	447.86	447.93
AC	1680+17.27	0.00	447.94	448.06
AD	1680+27.27	0.00	448.01	448.17
AE	1680+37.27	0.00	448.07	448.28
AF	1680+47.27	0.00	448.12	448.36
AG	1680+57.27	0.00	448.16	448.41
AH	1680+67.27	0.00	448.19	448.44
AI	1680+77.27	0.00	448.22	448.44
AJ	1680+87.27	0.00	448.23	448.41
AK	1680+97.27	0.00	448.24	448.35
AL	1681+12.27	0.00	448.23	448.23
⊕ Brg. N. Abut.	1681+13.55	0.00	448.22	448.22
⊕ Exp. Jt.	1681+15.86	0.00	448.22	448.22
Bk. N. Abut.				

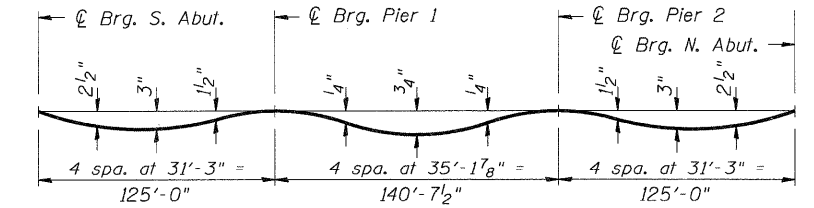
GIRDER 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1677+17.25	2.46	441.61	441.61
⊕ Exp. Jt.	1677+19.34	2.46	441.68	441.68
⊕ Brg. S. Abut.	1677+20.50	2.46	441.72	441.72
A	1677+30.50	2.46	442.06	442.13
B	1677+40.50	2.46	442.39	442.53
C	1677+50.50	2.46	442.71	442.90
D	1677+60.50	2.46	443.02	443.25
E	1677+70.50	2.46	443.32	443.57
F	1677+80.50	2.46	443.61	443.86
G	1677+90.50	2.46	443.90	444.12
H	1678+00.50	2.46	444.17	444.36
I	1678+10.50	2.46	444.44	444.58
J	1678+20.50	2.46	444.69	444.79
K	1678+30.50	2.46	444.94	444.99
⊕ Brg. Pier 1	1678+45.50	2.46	445.29	445.29
L	1678+55.50	2.46	445.52	445.51
M	1678+65.50	2.46	445.74	445.73
N	1678+75.50	2.46	445.94	445.95
O	1678+85.50	2.46	446.14	446.17
P	1678+95.50	2.46	446.33	446.37
Q	1679+05.50	2.46	446.51	446.56
R	1679+15.50	2.46	446.68	446.74
S	1679+25.50	2.46	446.84	446.89
T	1679+35.50	2.46	446.99	447.03
U	1679+45.50	2.46	447.13	447.16
V	1679+55.50	2.46	447.27	447.28
W	1679+65.50	2.46	447.39	447.39
X	1679+75.50	2.46	447.51	447.50
Y				
Z				
AA	1679+86.12	2.46	447.62	447.62
⊕ Brg. Pier 2	1679+96.12	2.46	447.72	447.75
AB	1680+06.12	2.46	447.81	447.88
AC	1680+16.12	2.46	447.88	448.00
AD	1680+26.12	2.46	447.95	448.12
AE	1680+36.12	2.46	448.01	448.23
AF	1680+46.12	2.46	448.07	448.31
AG	1680+56.12	2.46	448.11	448.36
AH	1680+66.12	2.46	448.14	448.39
AI	1680+76.12	2.46	448.17	448.39
AJ	1680+86.12	2.46	448.18	448.36
AK	1680+96.12	2.46	448.19	448.30
AL	1681+11.12	2.46	448.18	448.18
⊕ Brg. N. Abut.	1681+12.40	2.46	448.18	448.18
⊕ Exp. Jt.	1681+14.71	2.46	448.17	448.17
Bk. N. Abut.				



DEAD LOAD DEFLECTION DIAGRAM - GIRDER 7

(Includes weight of concrete only.)



DEAD LOAD DEFLECTION DIAGRAM - GIRDER 8

(Includes weight of concrete only.)

NOTE:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown above.

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 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

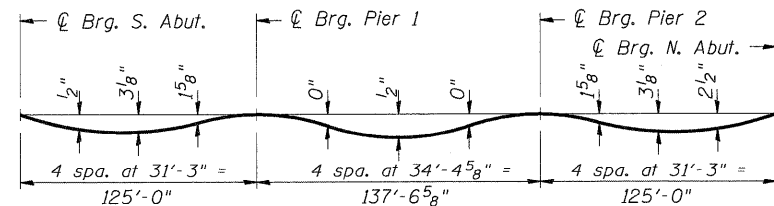
FILE NAME =	USER NAME = *USER*	DESIGNED - TCG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER TRRA & ST. CLAIR AVENUE	TOP OF SLAB ELEVATIONS 4 OF 5		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#	PLOT SCALE = *SCALE*	DRAWN - TCG	REVISED -		998	82-2-1HBV-1	ST. CLAIR	345	199		
TENG	PLOT DATE = *DATE*	CHECKED - JLR	REVISED -		SN 082-0329		CONTRACT NO. 76D05				
		DATE - 05/13/11	REVISED -		SCALE:	SHEET NO. SB-7 OF SB-63	STA. 1679+16.65 TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

GIRDER 9

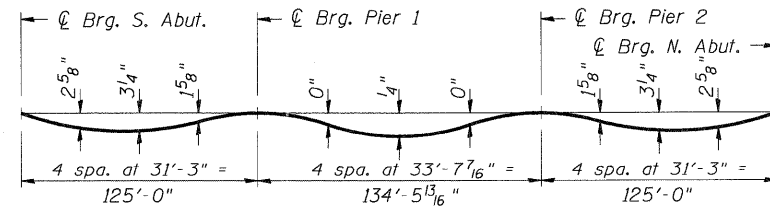
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1677+17.25	9.04	441.47	441.47
┆ Exp. Jt.	1677+19.34	9.04	441.55	441.55
┆ Brg. S. Abut.	1677+20.50	9.04	441.59	441.59
A	1677+30.50	9.04	441.92	442.00
B	1677+40.50	9.04	442.25	442.40
C	1677+50.50	9.04	442.57	442.78
D	1677+60.50	9.04	442.89	443.13
E	1677+70.50	9.04	443.19	443.45
F	1677+80.50	9.04	443.48	443.74
G	1677+90.50	9.04	443.76	444.00
H	1678+00.50	9.04	444.04	444.24
I	1678+10.50	9.04	444.30	444.45
J	1678+20.50	9.04	444.56	444.66
K	1678+30.50	9.04	444.81	444.86
┆ Brg. Pier 1	1678+45.50	9.04	445.16	445.16
L	1678+55.50	9.04	445.39	445.38
M	1678+65.50	9.04	445.60	445.59
N	1678+75.50	9.04	445.81	445.81
O	1678+85.50	9.04	446.01	446.02
P	1678+95.50	9.04	446.20	446.22
Q	1679+05.50	9.04	446.38	446.41
R	1679+15.50	9.04	446.55	446.58
S	1679+25.50	9.04	446.71	446.74
T	1679+35.50	9.04	446.86	446.88
U	1679+45.50	9.04	447.00	447.01
V	1679+55.50	9.04	447.14	447.13
W	1679+65.50	9.04	447.26	447.25
X	1679+75.50	9.04	447.38	447.37
Y				
Z				
AA	1679+83.05	9.04	447.46	447.46
┆ Brg. Pier 2	1679+93.05	9.04	447.56	447.59
AB	1680+03.05	9.04	447.65	447.72
AC	1680+13.05	9.04	447.73	447.85
AD	1680+23.05	9.04	447.80	447.98
AE	1680+33.05	9.04	447.87	448.08
AF	1680+43.05	9.04	447.92	448.17
AG	1680+53.05	9.04	447.96	448.23
AH	1680+63.05	9.04	448.00	448.25
AI	1680+73.05	9.04	448.03	448.25
AJ	1680+83.05	9.04	448.05	448.23
AK	1680+93.05	9.04	448.05	448.17
AL	1681+08.05	9.04	448.05	448.05
┆ Brg. N. Abut.	1681+09.33	9.04	448.05	448.05
┆ Exp. Jt.	1681+11.64	9.04	448.05	448.05
Bk. N. Abut.				

GIRDER 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	1677+17.25	15.63	441.34	441.34
┆ Exp. Jt.	1677+19.34	15.63	441.41	441.41
┆ Brg. S. Abut.	1677+20.50	15.63	441.45	441.45
A	1677+30.50	15.63	441.79	441.87
B	1677+40.50	15.63	442.12	442.28
C	1677+50.50	15.63	442.44	442.66
D	1677+60.50	15.63	442.75	443.01
E	1677+70.50	15.63	443.06	443.33
F	1677+80.50	15.63	443.35	443.62
G	1677+90.50	15.63	443.63	443.88
H	1678+00.50	15.63	443.91	444.12
I	1678+10.50	15.63	444.17	444.33
J	1678+20.50	15.63	444.43	444.54
K	1678+30.50	15.63	444.68	444.73
┆ Brg. Pier 1	1678+45.50	15.63	445.03	445.03
L	1678+55.50	15.63	445.26	445.24
M	1678+65.50	15.63	445.47	445.46
N	1678+75.50	15.63	445.68	445.67
O	1678+85.50	15.63	445.88	445.87
P	1678+95.50	15.63	446.06	446.07
Q	1679+05.50	15.63	446.24	446.26
R	1679+15.50	15.63	446.41	446.43
S	1679+25.50	15.63	446.58	446.59
T	1679+35.50	15.63	446.73	446.73
U	1679+45.50	15.63	446.87	446.86
V	1679+55.50	15.63	447.00	446.99
W	1679+65.50	15.63	447.13	447.11
X	1679+75.50	15.63	447.24	447.24
Y				
Z				
AA	1679+79.98	15.63	447.29	447.29
┆ Brg. Pier 2	1679+89.98	15.63	447.40	447.43
AB	1679+99.98	15.63	447.49	447.57
AC	1680+09.98	15.63	447.57	447.71
AD	1680+19.98	15.63	447.65	447.83
AE	1680+29.98	15.63	447.72	447.95
AF	1680+39.98	15.63	447.77	448.03
AG	1680+49.98	15.63	447.82	448.09
AH	1680+59.98	15.63	447.86	448.13
AI	1680+69.98	15.63	447.89	448.13
AJ	1680+79.98	15.63	447.91	448.10
AK	1680+89.98	15.63	447.92	448.04
AL	1681+04.98	15.63	447.92	447.92
┆ Brg. N. Abut.	1681+06.26	15.63	447.92	447.92
┆ Exp. Jt.	1681+08.57	15.63	447.92	447.92
Bk. N. Abut.				



DEAD LOAD DEFLECTION DIAGRAM - GIRDER 9
(Includes weight of concrete only.)



DEAD LOAD DEFLECTION DIAGRAM - GIRDER 10
(Includes weight of concrete only.)

NOTE:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown above.

\S:\0844\04\VALU\I.D. TRANS. 07\222\20866\081\STRUCT\CAD\01 DESIGN\082021\SHEET\082021-CONH-10-005-SHT-SP.DGN
 5-11-2011 10:55:43
 TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS
 FILE NAME = USER NAME = #USER# DESIGNED - TCG REVISED - DRAWN - TCG REVISED - CHECKED - JLR REVISED - DATE - 05/13/11 REVISED -

	FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED - TCG DRAWN - TCG CHECKED - JLR DATE - 05/13/11	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 3 OVER TRRA & ST. CLAIR AVENUE	TOP OF SLAB ELEVATIONS 5 OF 5	F.A.P. RTE. 998	SECTION 82-2-1HVB-1	COUNTY ST. CLAIR	TOTAL SHEETS 345	SHEET NO. 200
	SCALE:		SHEET NO. SB-8 OF SB-63				STA. 1679+16.65 TO STA.		SN 082-0329		CONTRACT NO. T6D05