

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES AND COMMITMENTS
- 3-7 SUMMARY OF QUANTITIES
- 8-9 TYPICAL SECTIONS
- 10-11 SCHEDULES OF QUANTITIES
- 12 ALIGNMENT, TIES, AND BENCHMARKS
- 13 PLAN AND PROFILE SHEET
- 14-16 STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
- 17 EROSION AND SEDIMENT CONTROL DETAILS
- 18 RIGHT-OF-WAY SHEET
- 19 REMOVALS SHEET
- 20-28 STRUCTURE PLANS
- 29-34 EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
- 35-37 DETAILS
- 38-44 CROSS SECTIONS

LIST OF STANDARDS

000001-06	666001-01
001001-02	701001-02
001006	701006-05
280001-07	701011-04
420001-08	701201-04
420601-05	701301-04
420701-02	701311-03
515001-03	701321-14
630001-10	701326-04
630201-06	701901-04
630301-06	704001-07
635006-03	780001-05
635011-02	781001-03

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

PROJECT ENGINEER: DAVID PICHE, (618) 549-2171

CONTRACT NO. 78214

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

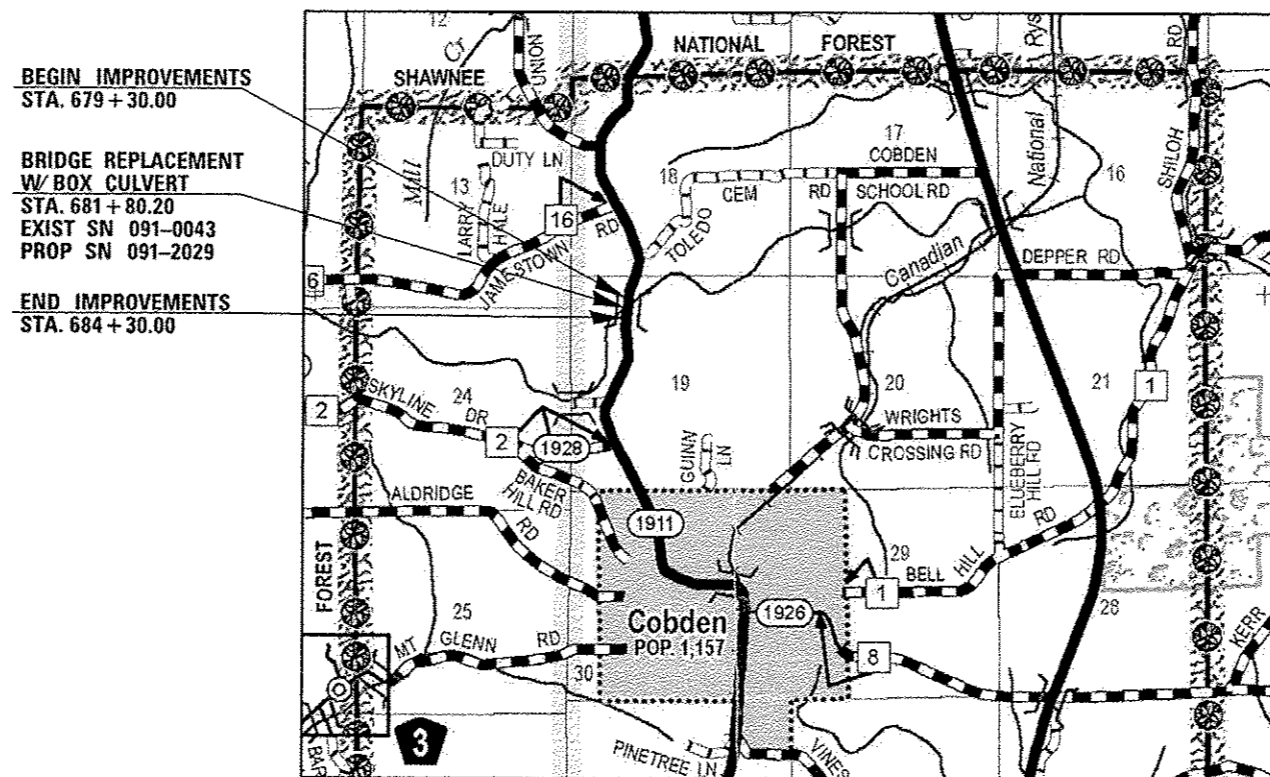
FAS ROUTE 1911 (OLD US 51)

SECTION 11B-2

PROJECT *ACRS-1911(108)*

STRUCTURE REPLACEMENT OVER DRURY CREEK
UNION COUNTY

C-99-073-10



BEGIN IMPROVEMENTS
STA. 679 + 30.00

BRIDGE REPLACEMENT
W/ BOX CULVERT
STA. 681 + 80.20
EXIST SN 091-0043
PROP SN 091-2029

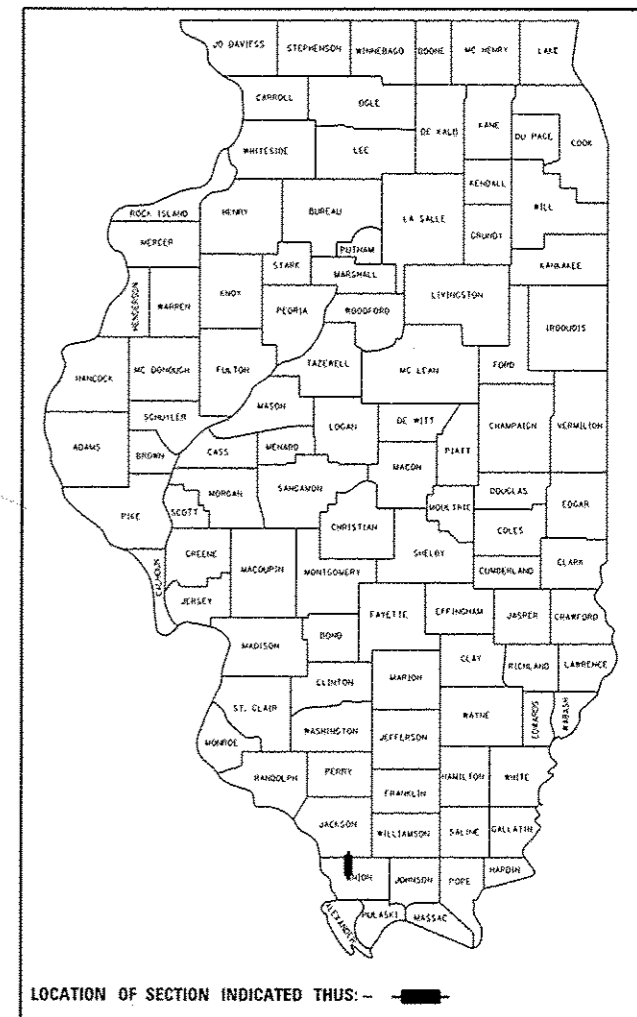
END IMPROVEMENTS
STA. 684 + 30.00



LOCATION MAP
NOT TO SCALE

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	1
		ILLINOIS	CONTRACT NO. 78214	

D-99-070-10



LOCATION OF SECTION INDICATED THUS: —■—

FUNCTIONAL CLASSIFICATION -
MAJOR COLLECTOR (NON-URBAN)
POSTED & DESIGN SPEED = 55 MPH
2009 ADT = 1030
2029 ADT = 1530
TOWNSHIP: COUNTY UNIT ROAD DISTRICT



SIGNATURE *Shelley L. Dintelma*

DATE SIGNED: 1/16/15

LICENSE EXPIRES: 11/30/2015

EFK • Moen, LLC
Civil Engineering Design

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Jan 30 20 15

Jeffrey A. Kern
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Mar 20 20 15
John D. Baranzelli PE, Inc.
ENGINEER OF DESIGN AND ENVIRONMENT

Mar 20 20 15
Omer Osman PE, Inc.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GROSS LENGTH = 500.00 FT. = 0.095 MILE
NET LENGTH = 500.00 FT. = 0.095 MILE

GENERAL NOTES

1. THE THICKNESS OF HOT MIX ASPHALT SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT MIX ASPHALT IS PLACED.
2. IF SO DIRECTED BY THE ENGINEER, DITCHES ADJACENT TO EMBANKMENTS SHALL BE CONSTRUCTED PRIOR TO STARTING THE CONSTRUCTION OF THE EMBANKMENT FILL.
3. FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT MIX ASPHALT	2.016 TONS/CU YD
ALL AGGREGATE	2.05 TONS/CU YD
BITUMINOUS MATERIALS:	
ON PAVEMENT	0.05 LB/SQ FT
INTERMEDIATE LIFTS (FOG COATS)	0.025 LB/SQ FT
ON AGGREGATE SURFACE	0.25 LB/SQ FT
RIPRAP	1.50 TONS/CU YD

4. AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.
5. AFTER A LIFT OF BITUMINOUS CONCRETE HAS BEEN PLACED ON A LANE, THAT LANE SHALL REMAIN CLOSED TO TRAFFIC UNTIL THE NEW MAT HAS COOLED TO 150°F.
6. BITUMINOUS RESURFACING SHALL BE PLACED IN A SEQUENCE THAT WILL MINIMIZE THE TIME THE CENTERLINE EDGE IS EXPOSED TO TRAFFIC. WHEN AT THE END OF A DAY'S OPERATION THE EXPOSED CENTERLINE EDGE IS GREATER THAN 600 METERS (2,000 FT.), THE CONTRACTOR SHALL BE REQUIRED TO PAVE IN THE ADJACENT LANE ON THE FOLLOWING WORK DAY. PRIOR TO WINTER SHUTDOWN, RESURFACING ON ADJACENT LANES IS TO BE BROUGHT UP TO THE SAME ELEVATION.
- 7.
8. ATTAINMENT OF PROPER CROWN OR SUPERELEVATION SHALL BE FULLY ACCOMPLISHED WITH THE HOT MIX ASPHALT SURFACE REMOVAL OR HOT MIX ASPHALT BINDER COURSE OR LEVELING BINDER, WHEN SPECIFIED.
9. THE REMOVAL OF BROKEN CONCRETE IN EXISTING DITCHES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
10. THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER ACCORDING TO ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. AFTER THE CONSTRUCTION IS COMPLETED, THE STANDARD SPECIFICATIONS, AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL RE-ERECT THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.
11. PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.
12. TREES SHALL BE PRESERVED THROUGHOUT THIS SECTION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. GENERALLY, TREES OUTSIDE THE CLEAR ZONE, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.
13. THE LIMITS OF ROCK AND EARTH SLOPES SHOWN IN THE CROSS SECTIONS ARE APPROXIMATE. THE ACTUAL SLOPE USED SHALL BE DETERMINED BY THE MATERIAL CLASSIFICATION AS DEFINED IN ARTICLE 202.04, AND AS DIRECTED BY THE ENGINEER.
14. THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
15. THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED BETWEEN THE STOP BARS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
16. ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC. THE TEMPORARY TRAFFIC SIGNALS SHALL BE SET TO FLASH ALL RED.
17. STONE RIP RAP USED IN DITCHES SHALL BE PLACED IMMEDIATELY UPON COMPLETION OF EARTHWORK AND GRADING IN ORDER TO PREVENT EROSION.
18. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ANY DEBRIS OR DIRT CAUSED BY CONSTRUCTION ACTIVITY THAT COVERS THE NEW RIP RAP AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
19. EXISTING UNDERGROUND AND ABOVE-GRADE FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED ON THESE CONTRACT DOCUMENTS BASED UPON THE INFORMATION AND SURVEYS AVAILABLE AT THE TIME OF DRAWING PREPARATION. THE LOCATION OF THESE FEATURES MUST, THEREFORE, BE CONSIDERED APPROXIMATE ONLY. IN ADDITION, THERE MAY BE OTHER FACILITIES, STRUCTURES, AND UTILITIES WHICH DID NOT EXIST OR THE EXISTENCE OF WHICH WAS NOT KNOWN AT THE TIME OF DRAWING PREPARATION. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR(S) TO HAVE ALL EXISTING FACILITIES, STRUCTURES, AND UTILITIES LOCATED IN THE FIELD PRIOR TO ANY EXCAVATION OR CONSTRUCTION ACTIVITY; AND TO PROTECT ALL SUCH EXISTING FEATURES DURING CONSTRUCTION.

COMMITMENTS

DUE TO THE PRESENCE OF THE INDIANA BAT AND NORTHERN LONG-EARED BAT, CLEARING OF TREES SHALL BE PROHIBITED FROM APRIL 1 THROUGH SEPTEMBER 30.

20. GRADING SHALL BE DONE BY HAND AROUND LIGHT POLE, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
21. SEEDING SHALL BE DONE ON ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS AS DIRECTED BY THE ENGINEER. SEEDING SHALL BE PAID FOR ONLY WITHIN THE PROPOSED CONSTRUCTION LIMITS RIGHT-OF-WAY OR EASEMENT LIMITS. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED, AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
22. IF ASH TREES ARE REMOVED ON THE PROJECT, THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH MEASURES SPECIFIED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE (IDOA) TO PREVENT THE SPREAD OF THE EMERALD ASH BORER. THE IDOA INFORMATION FOR ASH TREE REMOVAL CAN BE FOUND ON THE IDOA WEBSITE AT WWW.AGR.STATE.IL.US/EAB.
23. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL EXISTING FIELD DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
24. WHEN TRAFFIC IS SHIFTED CLOSER TO THE EXISTING GUARDRAIL OR BARRIER, THE GUARDRAIL OR BARRIER SHOULD BE REFLECTORIZED AT A 25' SPACING.

MIXTURES REQUIREMENTS

LOCATION (S):	HOT-MIX ASPHALT SURFACE COURSE	HOT-MIX ASPHALT LEVELING BINDER	SHOULDERS HOT-MIX ASPHALT AND BASE COURSE WIDENING
MIXTURE USE (S):	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70	HOT-MIX ASPHALT LEVELING BINDER COURSE, N70, IL-9.5mm FINE GRADED	HOT-MIX ASPHALT BINDER, N70, IL-19.0mm
AC/PG:	PG64-22	PG64-22	PG64-22
ABR % (MAX):	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS:	4.0%, TO GYRATION DESIGN	4.0%, TO GYRATION DESIGN	4.0%, TO GYRATION DESIGN
MIXTURE COMPOSITION (GRADATION MIXTURE):	IL-9.5mm	IL-9.5mm FINE GRADED	IL-19.0mm
FRICTION AGGREGATE:	C SURFACE	NONE	NONE
QUALITY MANAGEMENT PROGRAM:	QCOA	QCOA	QCOA

EFK•Moen, LLC
Civil Engineering Design

Prepared By: *Joe Blum*
DISTRICT STUDIES & PLANS ENGINEER

Examined By: *[Signature]*
DISTRICT LAND ACQUISITION ENGINEER

Examined By: *Carmie Nicks*
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: *[Signature]*
DISTRICT OPERATIONS ENGINEER

Examined By: *[Signature]*
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: _____
DISTRICT CONSTRUCTION ENGINEER

Examined By: _____
DISTRICT MATERIALS ENGINEER

FILE NAME =	USER NAME = jd	DESIGNED - JRD	REVISED -
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	PLOT DATE = 1/16/2015	DATE - 1/15/15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	2
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY	80% FEDERAL 20% STATE BRIDGE
				0004 RURAL	0011 RURAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	348	348	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	88	88	
20200100	EARTH EXCAVATION	CU YD	550	550	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	1613	238	1375
25000200	SEEDING, CLASS 2	ACRE	0.75	0.75	
25000350	SEEDING, CLASS 7	ACRE	0.75	0.75	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	68	68	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	68	68	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	68	68	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1.5	1.5	
25100115	MULCH, METHOD 2	ACRE	0.75	0.75	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SO YD	3743	3743	
28000305	TEMPORARY DITCH CHECKS	FOOT	97	97	
28000400	PERIMETER EROSION BARRIER	FOOT	335	335	

14
* SPECIALTY ITEM

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Civil Engineering Design

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Y:\10057.14 Grury Creek\DDM\Design\Final\Plotsheets\003-007-0978214-sht-S00.dgn		DRAWN -	REVISED -		SCALE: N.A.	SHEET NO. 1 OF 5 SHEETS	1911	11B-2	UNION	44	3		
PLOT SCALE = 40.0000 1" = in.		CHECKED -	REVISED -						CONTRACT NO. 78214				
PLOT DATE = 1/21/2015		DATE -	REVISED -						ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY	BRIDGE
				0004	0011
				RURAL	RURAL
28100109	STONE RIPRAP, CLASS A5	SQ YD	507	507	
28200200	FILTER FABRIC	SQ YD	507	507	
35650500	BASE COURSE WIDENING 10"	SQ YD	155	155	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1013	1013	
40600637	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N70	TON	72	72	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	162	162	
40600990	TEMPORARY RAMP	SQ YD	80	80	
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	106	106	
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	342	342	
42001200	PAVEMENT FABRIC	SQ YD	342	342	
44000100	PAVEMENT REMOVAL	SQ YD	163	163	
44004250	PAVED SHOULDER REMOVAL	SQ YD	26	26	
48203006	HOT-MIX ASPHALT SHOULDERS, 2 1/4"	SQ YD	130	130	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	155	155	

14
* SPECIALTY ITEM

EFK Moen, LLC
Civil Engineering Design

FILE NAME : Y:\10057.14 Drury Creek\DDH\Design\Final	USER NAME : jd	DESIGNED - BJC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.S. RTE. 1911	SECTION 118-2	COUNTY UNION	TOTAL SHEETS 44	SHEET NO. 4
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Plot Date * 1/16/2015	DATE - 1/15/15	REVISED -	ILLINOIS FED. AID PROJECT							

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY	80% FEDERAL 20% STATE BRIDGE
				0004	0011
				RURAL	RURAL
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	181	181	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	18	18	
50200100	STRUCTURE EXCAVATION	CU YD	2116		2116
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	84260		84260
50800515	BAR SPLICERS	EACH	164		164
51500100	NAME PLATES	EACH	1		1
54003000	CONCRETE BOX CULVERTS	CU YD	296.8		296.8
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	450	450	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	626	626	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	16	16	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5	
67100100	MOBILIZATION	L SUM	1	1	

14 * SPECIALTY ITEM

EFK Moen, LLC
Civil Engineering Design

FILE NAME :	USER NAME :	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 1/16/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
				SCALE: N/A.	SHEET NO. 3 OF 5 SHEETS								

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY 0004 RURAL	BRIDGE 0011 RURAL
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	4	4	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2	2	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	152	152	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2899	2899	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1016	1016	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	375	375	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	350	350	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	

14 *SPECIALTY ITEM

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Civil Engineering Design

FILE NAME : T:\10057.14 Drury Creek\DDH\Design\Final	USER NAME : jd	DESIGNED - BJG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10057.14 Drury Creek\DDH\Design\Final	Plotsheets\003-007-097B214-shr-500.dgn	DRAWN - BJG	REVISED -				1911	11B-2	UNION	44	6
PLOT SCALE * 40,0000' / in.	CHECKED - SLD	REVISOR -	REVISOR -		SCALE: N.A.		SHEET NO. 4 OF 5 SHEETS		CONTRACT NO. 78214		
PLOT DATE * 1/15/2015	DATE - 1/15/15	REVISOR -	REVISOR -		ILLINOIS FED. AID PROJECT						

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY	80% FEDERAL 20% STATE BRIDGE
				0004 RURAL	0011 RURAL
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2899	2899	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	11	11	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
	78300100	PAVEMENT MARKING REMOVAL	SO FT	965	965
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	11	11
* 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1	1	
	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	128	128
	Z0005216	HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL	SO YD	236	236
	Z0028462	GEOTEXTILE RETAINING WALL	SO FT	309	309
* Z0054517	ROCK FILL - FOUNDATION	TON	428		428
	Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SO FT	727	727
φ Z0076600	TRAINEES	HOURL	500	500	
φ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURL	500	500	

12 • SPECIALTY ITEM φ 0042

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Civil Engineering Design

FILE NAME : \\10057.14 Orury Creek\DCM\Design\Final\Plotehsets\003-007-0978214-sht-500.dgn	USER NAME : j_d	DESIGNED - BJC	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE : 40.0000 ' / in.	CHECKED - SLD	REVISD -	REVISD -		SCALE: N.A.	SHEET NO. 5 OF 5 SHEETS	1911	11B-2	UNION	44	7		
PLOT DATE : 1/15/2015	DATE - 1/15/15	REVISD -	REVISD -						CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT													

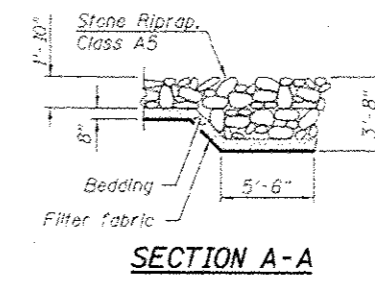
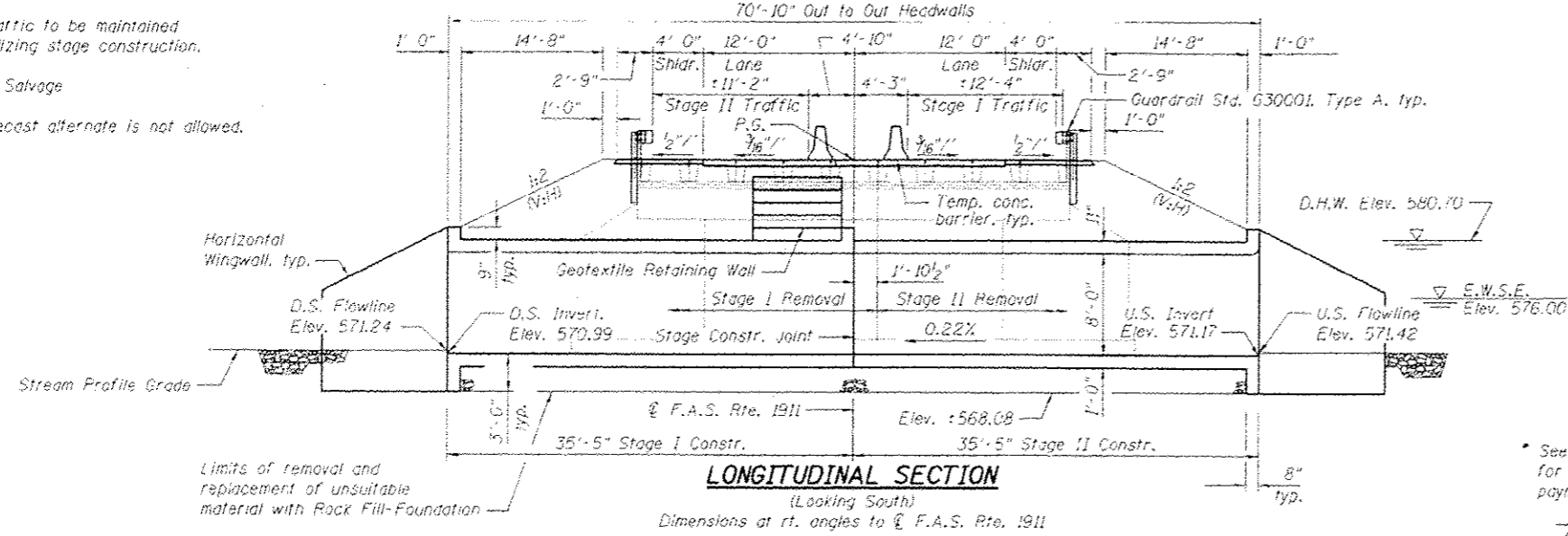
Benck Mark: BM 910043 - Chiseled square on southeast corner of SN 091-0043, Elev. 587.92

Existing Structure: SN 091-0043 was originally built in 1922 as SBI 2 (Section 11A) and widened during a superstructure replacement in 1980 as FAS 1911 (Section 11A-BR). The existing structure is a 33 foot (back-to-back abutments) single span precast concrete channel beam bridge. The substructure consists of the original closed abutments founded on spread footings with widened abutment caps. The deck measures 33'-3" between rails and the overall out-to-out width of the bridge is 34'-9". The existing structure is to be removed and replaced.

Traffic to be maintained utilizing stage construction.

No Salvage

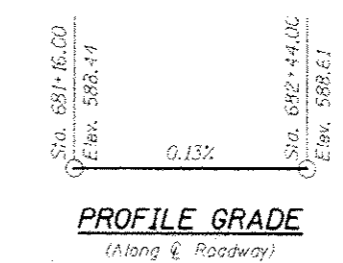
Precast alternate is not allowed.



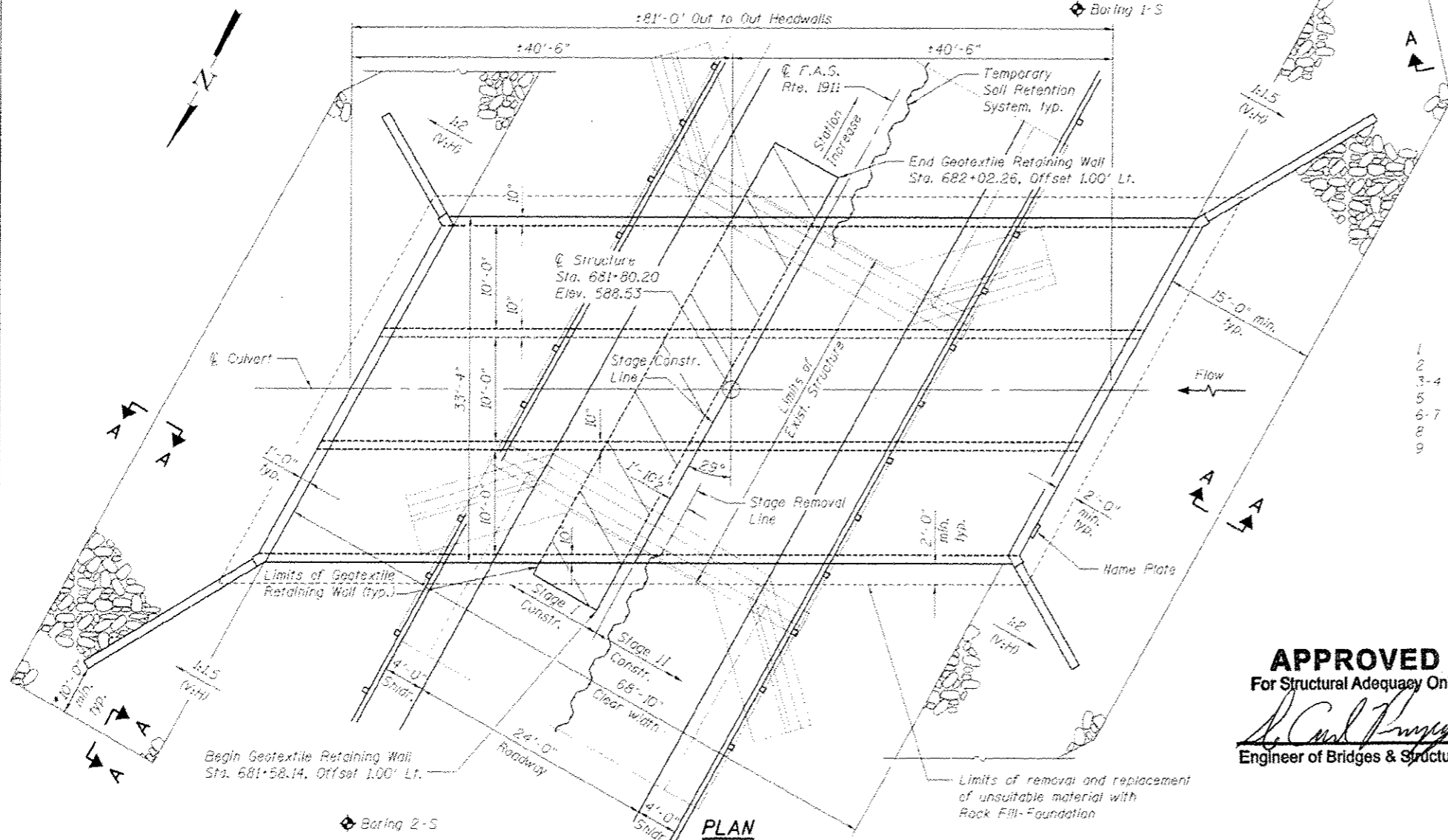
LOADING HL-93
 Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
 2012 AASHTO LRFD
 Bridge Design Specifications,
 6th Edition

DESIGN STRESSES
FIELD UNITS
 $f'_c = 5,500$ psi
 $f_y = 60,000$ psi (Reinforcement)



NAME PLATE
 See Sta. 515001



WATERWAY INFORMATION

Drainage Area = 1.51 Sq. Mi. Low Grade Elev. 587.70 @ Sta. 678+49.20

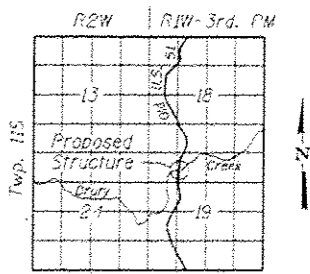
Flood	Freq. Yr.	Q C.F.S.	Opening Sc. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	10	1040	107.79	227.40	578.75	0.67	0.14	579.42	578.89
Base	50	1780	158.96	240.00	580.70	0.90	0.25	581.60	580.95
Max. Calc.	100	2120	178.90	240.00	581.46	1.26	0.54	582.72	582.00
Overtopping	500	3030	220.10	240.00	583.03	2.63	1.75	585.66	584.78

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Elevation (ft.)	
	Upstream	Downstream
	560.17	567.99

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Structure Data
- 3-4 Stage Construction Details
- 5 Temporary Concrete Barrier For Stage Construction
- 6-7 Culvert Details
- 8 Bar Splicer Assembly and Mechanical Splicer Details
- 9 Boring Logs



APPROVED
 For Structural Adequacy Only
[Signature]
 Engineer of Bridges & Structures

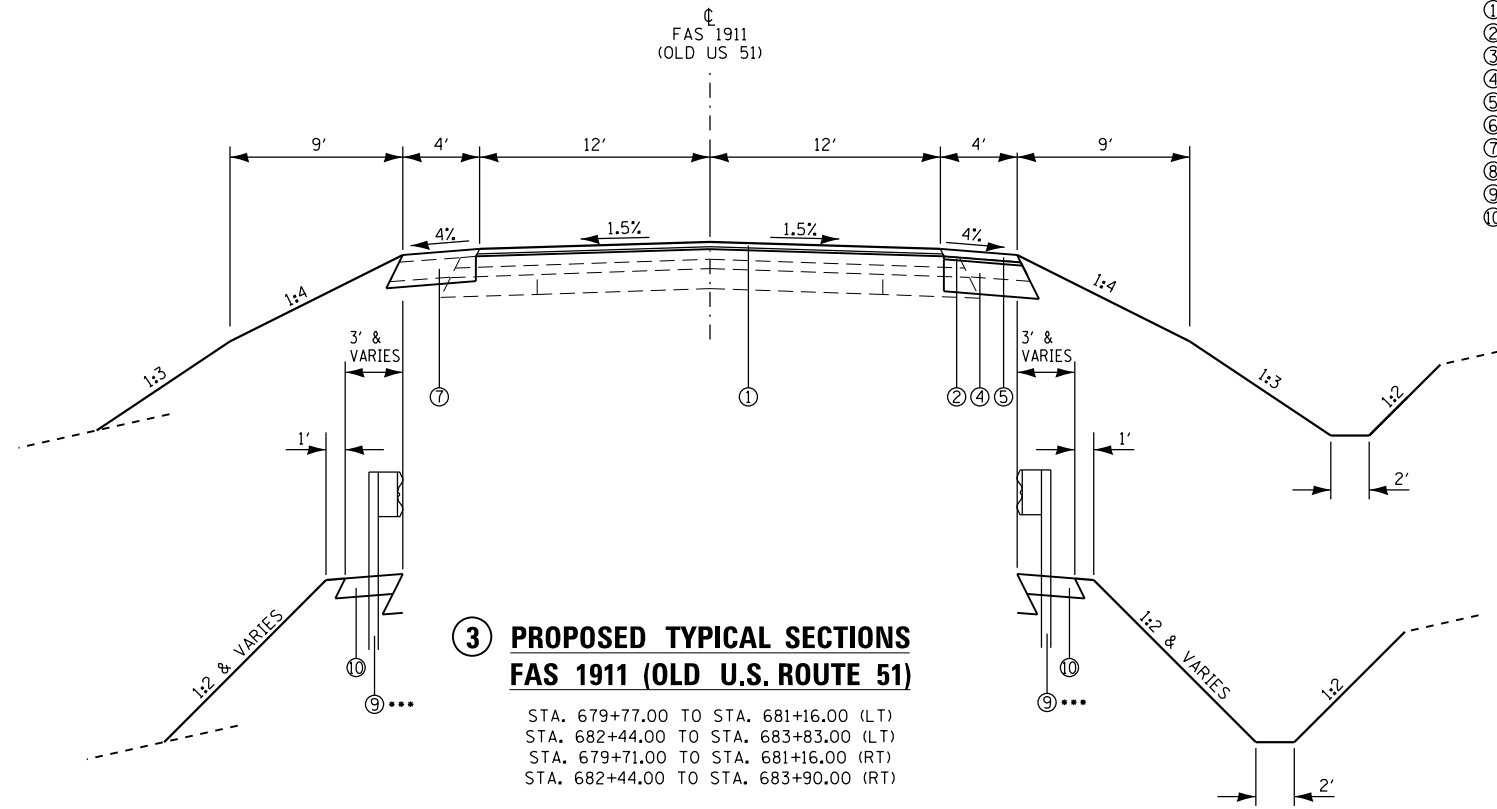
[Signature]
 01/16/2015
 JERILYN M. HASSARD
 EDWARDSVILLE, ILLINOIS
 ILLINOIS LICENSED STRUCTURAL
 ENGINEER NO. 081-006521
 EXPIRES 11/30/2016

GENERAL PLAN AND ELEVATION
OLD U.S. ROUTE 51
OVER DRURY CREEK
F.A.S. RTE. 1911 - SEC. 11B-2
UNION COUNTY
STATION 681+80.20
STRUCTURE NO. 091-2029

*** GUARDRAIL & TRAFFIC BARRIER TERMINALS
 STA. 680+54.92 TO STA. 683+79.90 (LT)
 STA. 679+70.33 TO STA. 682+95.33 (RT)

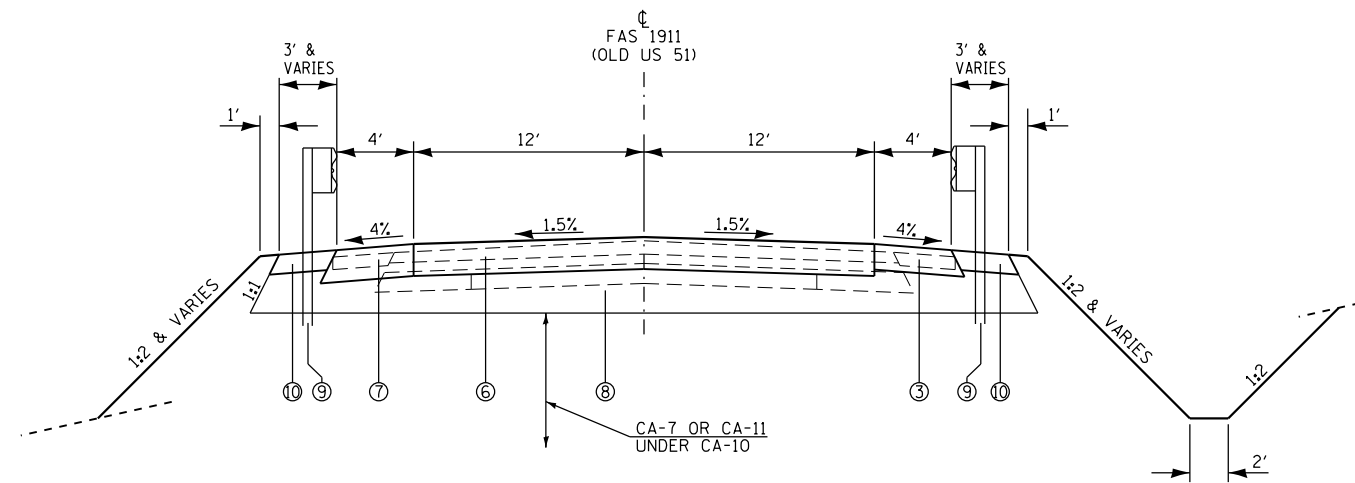
PROPOSED

- ① HOT MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1-1/2"
- ② LEVELING BINDER (MACHINE METHOD), N70, IL-9.5mm FINE GRADE, 3/4" MIN
- ③ HOT MIX ASPHALT SHOULDER, 8"
- ④ BASE COURSE WIDENING, 10"
- ⑤ HOT MIX ASPHALT SHOULDER, 2-1/4"
- ⑥ PORTLAND CEMENT CONCRETE PAVEMENT 10"
- ⑦ HOT MIX ASPHALT SHOULDER, 10"
- ⑧ POROUS GRANULAR EMBANKMENT, CA-10, 1'-0" MIN.
- ⑨ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ⑩ HOT MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL



**3 PROPOSED TYPICAL SECTIONS
 FAS 1911 (OLD U.S. ROUTE 51)**

STA. 679+77.00 TO STA. 681+16.00 (LT)
 STA. 682+44.00 TO STA. 683+83.00 (LT)
 STA. 679+71.00 TO STA. 681+16.00 (RT)
 STA. 682+44.00 TO STA. 683+90.00 (RT)



**4 PROPOSED TYPICAL SECTIONS
 FAS 1911 (OLD U.S. ROUTE 51)**

STA. 681+16.00 TO STA. 682+44.00

FILE NAME =	USER NAME = jd	DESIGNED - JRD	REVISED -
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		CHECKED - SLD	REVISED -
MODELNAME	PLOT DATE = 1/16/2015	DATE - 1/15/15	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS	
SCALE: N.T.S.	SHEET 2 OF 2 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	9
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				

SEEDING SCHEDULE			SEEDING CL 2 (ACRE)	SEEDING CL 7 (ACRE)	NITROGEN FERTILIZER NUTRIENT (POUND)	PHOSPHORUS FERTILIZER NUTRIENT (POUND)	POTASSIUM FERTILIZER NUTRIENT (POUND)	MULCH METHOD 2 (ACRE)	AGRICULTURAL GROUND LIMESTONE (TON)
LOCATION	STATION	STATION							
LEFT SIDE	678+80.00	684+80.00	0.25	0.25	23	23	23	0.25	0.5
RIGHT SIDE	678+80.00	684+80.00	0.5	0.5	45	45	45	0.5	1
TOTALS			0.75	0.75	68	68	68	0.75	1.5

EARTHWORK		FOR INFORMATION ONLY							
STATION	STATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR 25% SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) SHORTAGE (-) (CU YD)	RIPRAP EXCAVATION MATERIAL (CU YD)	RIPRAP EXCAVATION ADJUSTED FOR 25% SHRINKAGE (CU YD)	STRUCTURE EXCAVATION (CU YD)	STRUCTURE EXCAVATION ADJUSTED FOR 25% SHRINKAGE (CU YD)
678+80.00	684+80.00	550	415	1,220	-805				
681+36.24	682+24.16				1,585			2116	1585
681+10.40 (LT)	682+50.00 (LT)				140	185	140		
681+50.00 (RT)	682+50.00 (RT)				100	130	100		
TOTALS		550	415		1,020				

- NOTES:
1. RIPRAP EXCAVATION IS NOT A PAY ITEM AND IT IS INCLUDED IN THE COST OF STONE RIPRAP CLASS A5
2. THE EARTHWORK SCHEDULE HAS ASSUMED THE RIPRAP EXCAVATION MAY BE USED AS EMBANKMENT

EROSION CONTROL					PERIMETER EROSION BARRIER (FOOT)	HEAVY DUTY EROSION CONTROL BLANKET (SQ YD)	FILTER FABRIC (SQ YD)	STONE RIPRAP CLASS A5 (SQ YD)
LOCATION	STATION	OFFSET	STATION	OFFSET				
LEFT SIDE	678+75.00	19.5'	681+24.90	44.36'	264			
RIGHT SIDE	678+75.00	23'	679+05.00	23'	30			
RIGHT SIDE	684+45.00	26'	684+85.00	20'	41			
LEFT SIDE	678+80.00		684+50.00			1,665		
RIGHT SIDE	678+80.00		684+50.00			2,059		
LEFT SIDE	681+10.40		682+50.00				274	
RIGHT SIDE	681+50.00		682+50.00				233	
TOTALS					335	3,724	507	507

DITCH CHECKS			TEMPORARY DITCH CHECKS (FOOT)
LOCATION	STATION	OFFSET	
RIGHT SIDE	679+50.00	42.30'	7.4
	680+00.00	45.00'	7.4
	680+50.00	45.70'	6.5
	681+00.00	46.50'	6.5
	681+50.00	38.70'	6.5
	682+50.00	37.50'	6.5
	683+00.00	47.50'	6.5
	683+50.00	43.60'	7.4
LEFT SIDE	684+00.00	42.70'	7.4
	682+50.00	39.70'	6.5
	683+00.00	37.50'	6.5
	683+50.00	34.40'	7.4
	684+00.00	30.80'	7.4
	684+50.00	22.70'	6.5
TOTALS			97

GUARDRAIL SCHEDULE					GUARDRAIL REMOVAL (FOOT)	HMA STABILIZATION 6" AT GUARDRAIL (SQ YD)	TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT (EACH)	STEEL BEAM GUARDRAIL TYPE A, 6' POSTS (FOOT)	GUARDRAIL MARKER TYPE A (EACH)	TERMINAL MARKER DIRECT APPLIED (EACH)
LOCATION	STATION	OFFSET	STATION	OFFSET						
LEFT SIDE	680+53.69	18.02	681+44.51	17.39	91					
	682+15.96	17.01	684+31.59	18.26	216					
RIGHT SIDE	679+29.06	18.04	681+44.43	17.11	216					
	682+15.81	17.25	683+18.93	18.01	103					
LEFT SIDE	680+43.80		683+90.96			118				
RIGHT SIDE	679+59.34		683+06.37			118				
LEFT SIDE	680+54.92		681+04.91				1			
	683+29.91		683+79.90				1			
RIGHT SIDE	679+70.33		680+20.32				1			
	682+45.32		682+95.31				1			
LEFT SIDE	681+04.91		683+29.91				225	4		
RIGHT SIDE	680+20.32		682+45.32				225	4		
LEFT SIDE	680+54.92								1	
	683+79.90								1	
RIGHT SIDE	679+70.33								1	
	682+95.31								1	
TOTALS					626	236	4	450	8	4

ENGINEER'S FIELD OFFICE		
LOCATION	COUNTY	FIELD OFFICE TYPE A (CAL MO)
OLD US 51	678+80.00 TO 684+80.00	5
TOTAL		5

PAVEMENT			PORTLAND CEMENT CONCRETE PAVEMENT 10" (SQ YD)	POROUS GRANULAR EMBANKMENT (CU YD)	PAVEMENT FABRIC (SQ YD)	BITUMINOUS MATERIALS (PRIME COAT) (POUND)	HMA SHOULDERS 10" (SQ YD)	BASE COURSE WIDENING 10" (SQ YD)	HMA SHOULDERS 8" (SQ YD)	HMA SHOULDERS 2.25" (SQ YD)	LEVELING BINDER MACHINE METHOD IL-9.5FG, N70 (TON)	HMA SURFACE COURSE MIX "C", N70 (TON)
LOCATION	STATION	STATION										
OLD US 51	681+16.00	682+44.00	342	238	342							
OLD US 51	679+30.00	681+16.00				223					36	
OLD US 51	682+44.00	684+30.00				223					36	
OLD US 51	678+80.00	681+16.00				285						53
OLD US 51	682+44.00	684+80.00				282						53
LEFT SIDE	679+77.00	683+83.00					181					
RIGHT SIDE	679+71.00	681+43.76						77				
RIGHT SIDE	682+16.49	683+90.00						78				
LEFT SIDE	678+80.00	679+77.00							42			
LEFT SIDE	683+83.00	684+80.00							39			
RIGHT SIDE	678+80.00	679+71.00							37			
RIGHT SIDE	683+90.00	684+80.00							37			
RIGHT SIDE	679+71.00	681+16.00								65		
RIGHT SIDE	682+44.00	683+90.00								65		
TOTALS			342	238	342	1013	181	155	155	130	72	106

RIGHT OF WAY MARKERS		FURNISHING AND ERECTING RIGHT OF WAY MARKERS (EACH)
LOCATION		
SEE RIGHT-OF-WAY SHEET FOR LOCATIONS		16
TOTAL		16

TEMPORARY PAVEMENT AND REMOVALS			TEMPORARY RAMP (SQ YD)	HMA SURFACE REMOVAL BUTT JOINT (SQ YD)	PAVEMENT REMOVAL (SQ YD)	PAVED SHOULDER REMOVAL (SQ YD)	HMA SURFACE REMOVAL VARB-DEPTH (SQ YD)
LOCATION							
OLD US 51	678+80.00	678+87.50	21				
OLD US 51	681+08.50	681+16.00	20				
OLD US 51	682+44.00	682+51.50	20				
OLD US 51	684+72.50	684+80.00	19				
OLD US 51	680+24.32	681+43.78					
OLD US 51	682+16.48	683+43.11					
OLD US 51	678+80.00	679+10.00		84			
OLD US 51	684+30.00	684+80.00		78			
OLD US 51	681+16.00	681+43.85			81		
OLD US 51	682+16.52	682+44.00			81		
RIGHT SIDE	681+16.00	681+43.76				13	
RIGHT SIDE	682+16.49	682+44.00				13	
OLD US 51	679+30.00	680+00.00					128
TOTALS			80	162	163	26	128

TEMPORARY PAVEMENT MARKING SCHEDULE					
STATION	STATION	SHORT TERM PMK (FOOT)	TEMPORARY PMK LINE 4" (FOOT)	WORK ZONE PAV MARKING REMOVAL (SQ FT)	REMARKS
677+99.50	685+65.74	76		25	SHORT TERM CENTER LINE
677+99.50	685+65.74	76		25	SHORT TERM CENTER LINE
678+59.50	685+23.48		664	221	SGL WHT EOP LEFT SIDE
677+99.50	685+65.74		1532	511	DBL YLLW CENTER LINE
678+04.52	685+07.50		703	234	SGL WHT EOP RIGHT SIDE
TOTALS		152	2,899	1,016	

DRAINAGE STRUCTURE SCHEDULE						PIPE CULVERT REMOVAL (FOOT)
ROUTE	STATION	OFFSET	STATION	OFFSET	NOTE	
OLD US 51	682+26.46	38.57' RT.	682+44.19	36.71' RT.	EXIST. 12" CMP	18
TOTAL						18

PAINT PAVEMENT MARKING SCHEDULE						
STATION	STATION	PAVEMENT MARKING REMOVAL (SQ FT)	PAINT PAVEMENT MARKING LINE 4" (FOOT)	RAISED REFLECTIVE PAV MARKER REMOVAL (EACH)	RAISED REFLECTIVE PAVEMENT MARKER (EACH)	REMARKS
678+59.50	685+23.48	221	664			SGL WHT EOP LEFT SIDE
677+99.50	685+65.74	510	1532	11	11	DBL YLLW CENTER LINE
678+04.52	685+07.50	234	703			SGL WHT EOP RIGHT SIDE
TOTALS		965	2,899	11	11	

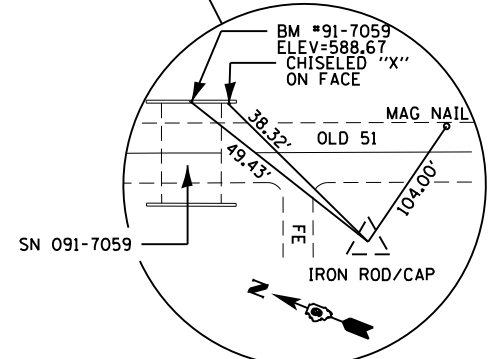
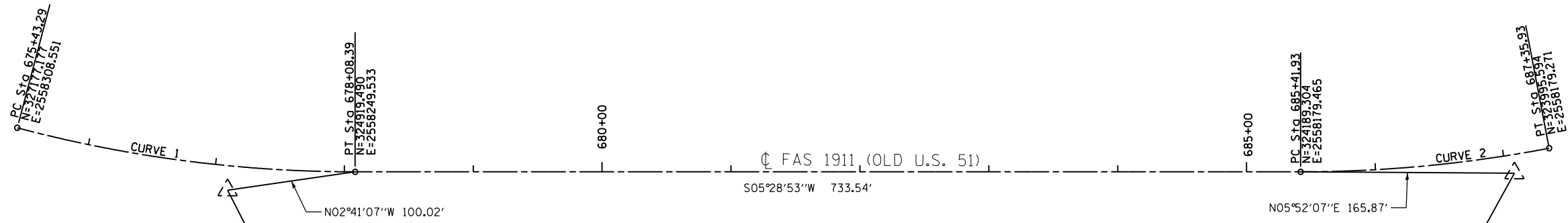
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PLOT DATE = 1/21/2015	DATE - 1/21/15	REVISIED -	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES
SCALE: N.A. SHEET NO. 2 OF 2 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	11
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				

EFK Moen, LLC
Civil Engineering Design

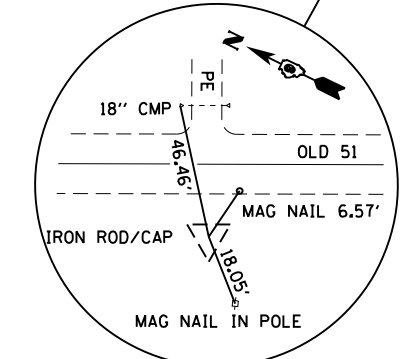


CONTROL POINT #91432
 STA 677+11.03 18.92' RT.
 N=325019.400
 E=2558244.847
 Z=587.10

CURVE 1
 PI STA. = 676+76.59
 $\Delta = 14^\circ 50' 14''$ (LT)
 D = 5° 35' 49"
 R = 1,023.71'
 T = 133.30'
 L = 265.10'
 E = 8.64'
 P.C. STA = 675+43.29
 P.T. STA = 678+08.39

BENCHMARKS:

1. BM 910043 - CHISLED SQUARE ON SOUTHEAST CORNER OF SN 091-0043, ELEV = 587.92
2. RESET-NGS MONUMENT SET VERTICALLY IN THE W. FACE OF THE S.W. CORNER OF THE FIRST NATIONAL BANK OF COBDEN LOCATED NEXT TO FUZZY'S BAR & GRILL "88" ELEV. = 616.26



CONTROL POINT #91431
 STA 687+06.20 14.44' RT.
 N=324024.299
 E=2558162.505
 Z=588.53

CURVE 2
 PI STA. = 686+39.22
 $\Delta = 10^\circ 50' 50''$ (LT)
 D = 5° 35' 29"
 R = 1,024.71'
 T = 97.29'
 L = 194.00'
 E = 4.61'
 P.C. STA = 685+41.93
 P.T. STA = 687+35.93

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES AND BENCHMARKS

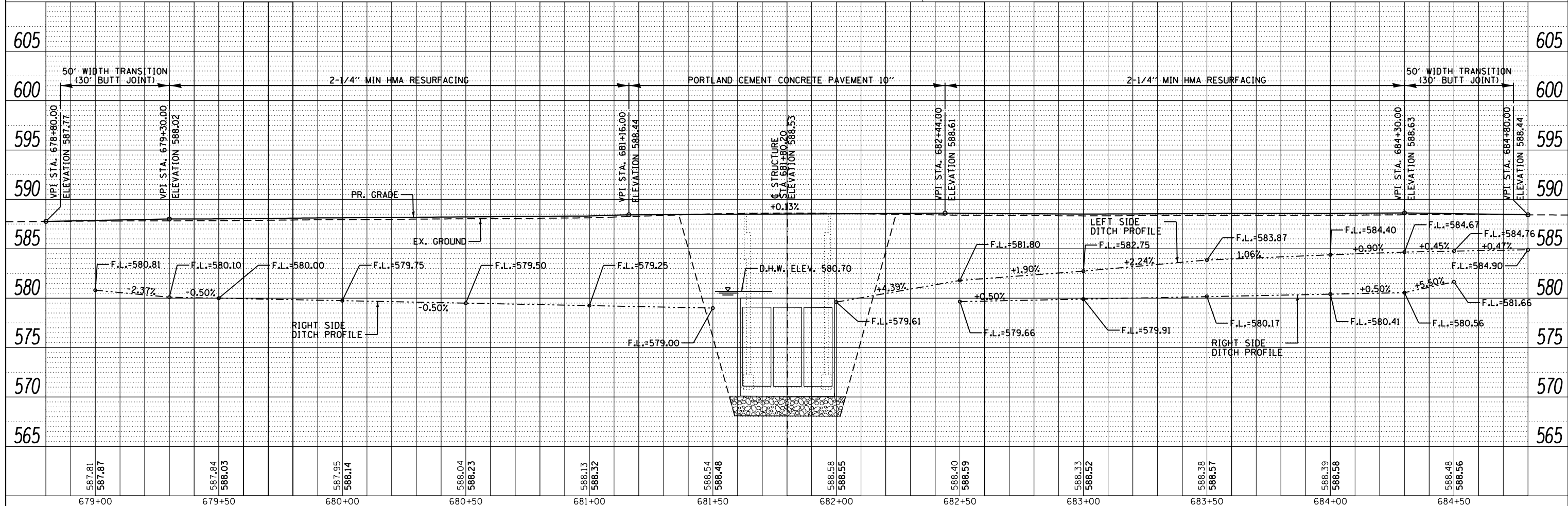
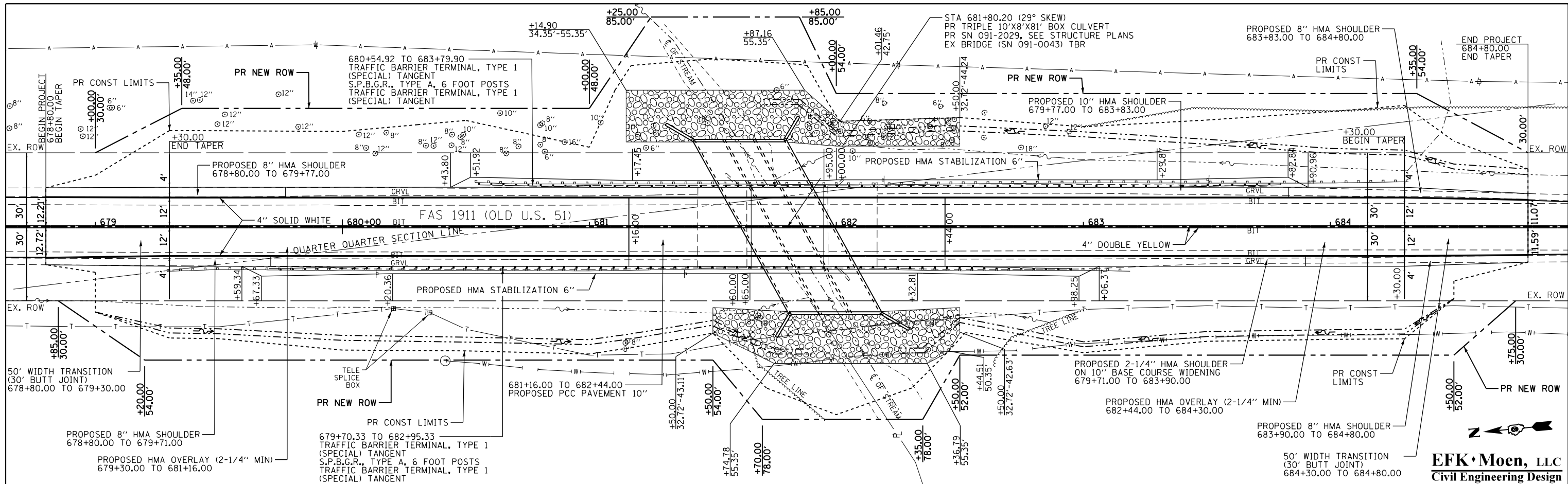
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	12
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				

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PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS OK'D		
	NOTE BOOK NO.		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS OK'D		
	NOTE BOOK NO.		
	FILE NAME		



FILE NAME =	USER NAME = j_d	DESIGNED - BJB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 678+80 TO STA. 684+80	SECTION 1911 COUNTY UNION TOTAL SHEETS 44 SHEET NO. 13 CONTRACT NO. 78214	ILLINOIS FED. AID PROJECT
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	PLOT DATE = 1/16/2015	DATE - 1/15/15	REVISED -				

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Civil Engineering Design

SCHEDULE OF QUANTITIES

TEMPORARY CONCRETE BARRIER = 25 LF
(STA. 679+92.77 - STA. 680+05.22)
(STA. 683+54.78 - STA. 683+67.23)

RELOCATE TEMPORARY CONCRETE BARRIER = 350 LF
(STA. 680+05.22 - STA. 683+54.78)

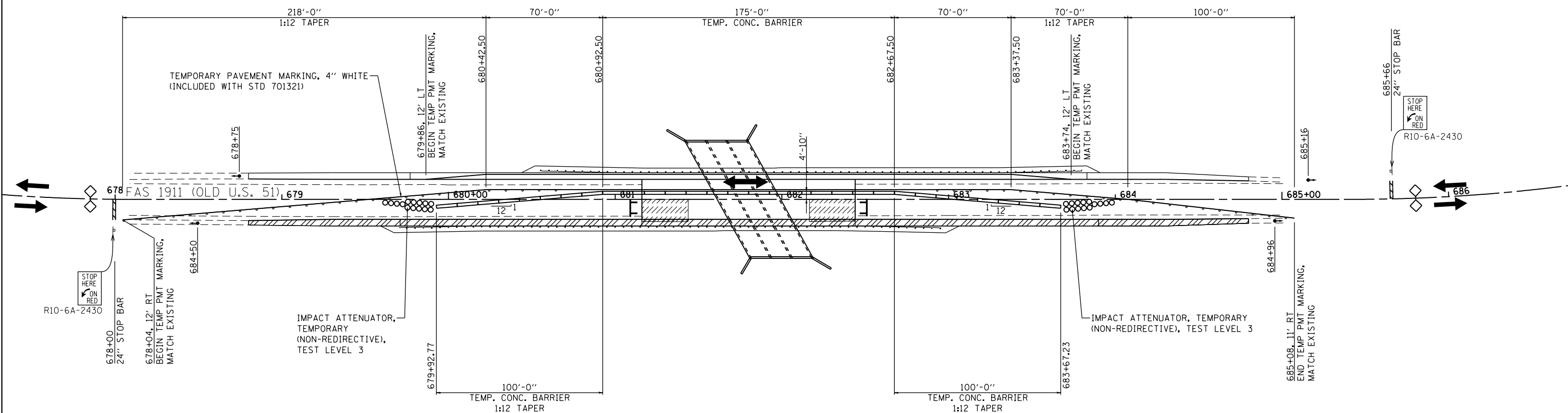
IMPACT ATTENUATORS, RELOCATE
(NON-REDIRECTIVE), TEST LEVEL 3 = 2 EACH

LEGEND

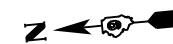
- TEMPORARY CONCRETE BARRIER W/ MONODIRECTIONAL PRISMATIC REFLECTOR
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE NARROW), TEST LEVEL 3
- DRUMS WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- SIGN
- TYPE III BARRICADE
- TEMPORARY TRAFFIC SIGNAL
- DETECTOR LOOPS
- BASE COURSE WIDENING, 10"
- PAVEMENT REMOVAL
- HMA SHOULDER (2 1/4", 8", 10")

GENERAL NOTES

- TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO TRAFFIC CONTROL AND PROTECTION, STANDARD 701321. SEE STANDARD 701321 FOR THE COMPLETION OF THE STAGE CONSTRUCTION TRAFFIC CONTROL THAT IS NOT SHOWN THAT INCLUDES, BUT IS NOT LIMITED TO, ADVANCE SIGNING, ADVANCE LOOP PLACEMENT, DRUMS WITH STEADY BURNING LIGHTS, DOUBLE VERTICAL PANELS AND BARRIER WALL/GUARDRAIL MARKERS.
- SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
- COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
- CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
- ADVANCE WIDTH RESTRICTIONS WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
- THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-1102(O)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-1103) SHOWN ON SHEET 16 SHALL BE 9'-8" FOR STAGE 2 CONSTRUCTION.
- THE ADVANCED DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
- THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED BETWEEN THE STOP BARS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
- VERTICAL PANELS SHOWN ON STANDARD 701321 WILL NOT BE REQUIRED ON THE NEW GUARDRAIL.
- ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC AND THE TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED OFF OR COVERED.
- THE STAGE 2 CONSTRUCTION SHALL INCLUDE THE REMOVAL OF THE EXISTING RT. SIDE PAVEMENT FROM STA. 681+16 TO 682+44 AND THE WEST SIDE OF EXISTING BRIDGE. CONSTRUCT WEST END OF PROPOSED TRIPLE BOX CULVERT AS DETAILED ON THE ATTACHED STRUCTURAL PLANS. PLACE THE PROPOSED RT. SIDE PAVEMENT FROM STA. 681+16 TO STA. 682+44. PLACE PROPOSED RT. SIDE HOT-MIX ASPHALT SHOULDER STA. 678+80 TO STA. 684+80. ERECT PROPOSED RT. SIDE GUARDRAIL.



STAGE 2 PLAN



EFK Moen, LLC
Civil Engineering Design

FILE NAME = Y:\10057.14 Drury Creek\Design\Final	USER NAME = jd	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION PLAN AND DETAILS STRUCTURE NO. 091-2029			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	Plotsheets\015-0978214-sht-staging2.dgn	DRAWN - JRD	REVISED -					1911	11B-2	UNION	44	15
	PLOT SCALE = 60.0000' / in.	CHECKED - SLD	REVISED -		SCALE: 1" = 30'	SHEET NO. 2 OF 3 SHEETS	STA. 677+32 TO STA. 686+77	CONTRACT NO. 78214				
	PLOT DATE = 1/21/2015	DATE - 1/21/15	REVISED -		ILLINOIS FED. AID PROJECT							

SCHEDULE OF QUANTITIES

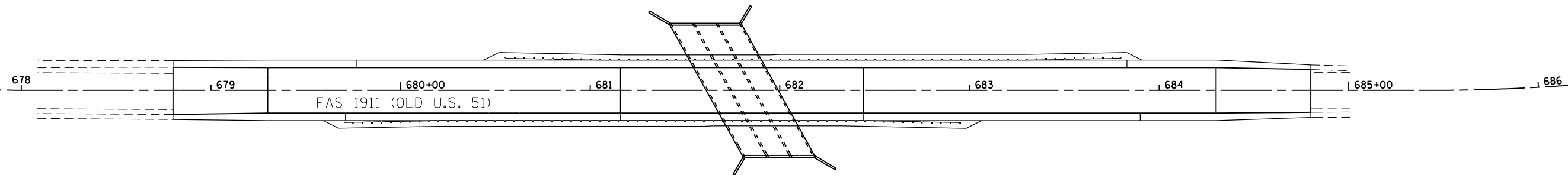
NONE

LEGEND

- TEMPORARY CONCRETE BARRIER W/ MONODIRECTIONAL PRISMATIC REFLECTOR
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE NARROW), TEST LEVEL 3
- DRUMS WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- SIGN
- TYPE III BARRICADE
- TEMPORARY TRAFFIC SIGNAL
- DETECTOR LOOPS
- BASE COURSE WIDENING, 10"
- PAVEMENT REMOVAL
- HMA SHOULDER (2 1/4", 8", 10")

GENERAL NOTES

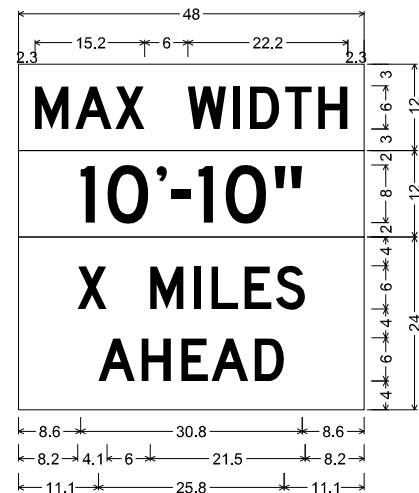
1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO TRAFFIC CONTROL STANDARD 701201 AND 701311.
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. THE STAGE 3 CONSTRUCTION SHALL INCLUDE PLACING HOT-MIX ASPHALT PAVEMENT STA. 678+80 TO STA. 681+16 AND STA. 682+44 TO 684+80 AND COMPLETING ALL REMAINING ROADSIDE IMPROVEMENTS WITHIN THE PROJECT LIMITS.



STAGE 3 PLAN

W12-I103 (STAGE 1)

NOTE: THIS SIGN SHALL BE LOCATED AS DIRECTED BY THE ENGINEER. ONE SIGN SHALL BE PROVIDED FOR EACH APPROACH TO THE SITE.

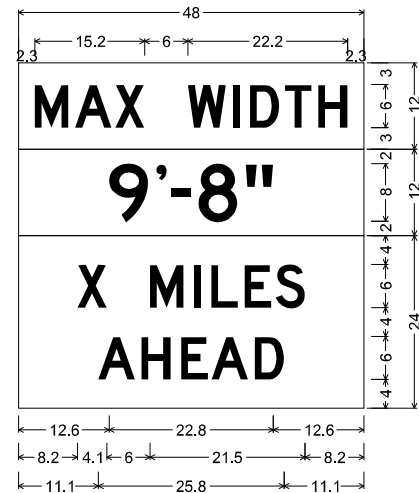


No border, White on None;
[MAX WIDTH] Black D 2K;
No border, White on Orange;
[10'-10"] Black D 2K;
No border, White on None;
[X MILES] Black D 2K;
[AHEAD] Black D 2K;
Table of widths and spaces.

M	A	X	2.3	4.7	0.9	5.1	0.4	4.1									
W	I	D	T	H	6.0	5.4	0.9	0.9	1.5	4.0	0.8	3.7	0.9	4.1	2.3		
I	O	"	8.6	2.0	1.8	5.6	1.2	1.4	0.6	2.8	1.0	2.0	1.8	5.6	1.2	3.8	8.6
X	8.2	4.1															
M	I	L	E	S	6.0	4.7	1.4	1.0	1.4	3.7	0.9	3.7	0.6	4.1	8.2		
A	H	E	A	D	11.1	5.1	0.9	4.1	1.4	3.7	0.5	5.1	0.9	4.1	11.1		

W12-I103 (STAGE 2)

NOTE: THIS SIGN SHALL BE LOCATED AS DIRECTED BY THE ENGINEER. ONE SIGN SHALL BE PROVIDED FOR EACH APPROACH TO THE SITE.



No border, White on None;
[MAX WIDTH] Black D 2K;
No border, White on Orange;
[9'-8"] Black D 2K;
No border, White on None;
[X MILES] Black D 2K;
[AHEAD] Black D 2K;
Table of widths and spaces.

M	A	X	2.3	4.7	0.9	5.1	0.4	4.1							
W	I	D	T	H	6.0	5.4	0.9	0.9	1.5	4.0	0.8	3.7	0.9	4.1	2.3
I	O	"	12.6	5.4	1.2	1.4	0.6	2.8	1.0	5.4	1.2	3.8	12.6		
X	8.2	4.1													
M	I	L	E	S	6.0	4.7	1.4	1.0	1.4	3.7	0.9	3.7	0.6	4.1	8.2
A	H	E	A	D	11.1	5.1	0.9	4.1	1.4	3.7	0.5	5.1	0.9	4.1	11.1

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PLOT DATE = 1/21/2015		DATE - 1/21/15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**




**STAGE CONSTRUCTION PLAN AND DETAILS
STRUCTURE NO. 091-2029**

SCALE: 1" = 30' SHEET NO. 3 OF 3 SHEETS STA. 677+32 TO STA. 686+77



F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	16
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				

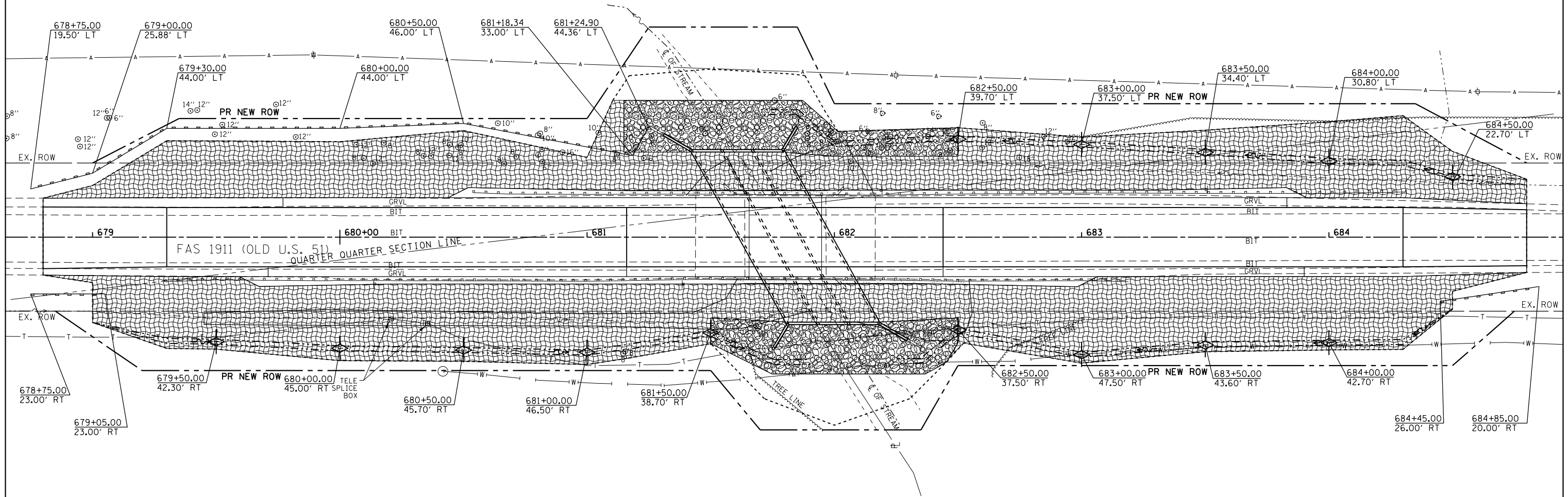
LEGEND

TEMPORARY EROSION CONTROL

-  INLET AND PIPE PROTECTION
-  PERIMETER EROSION BARRIER
-  DITCH CHECK

PERMANENT EROSION CONTROL

-  EROSION CONTROL BLANKET
-  RIPRAP & FILTER FABRIC



EFK·Moen, LLC
Civil Engineering Design

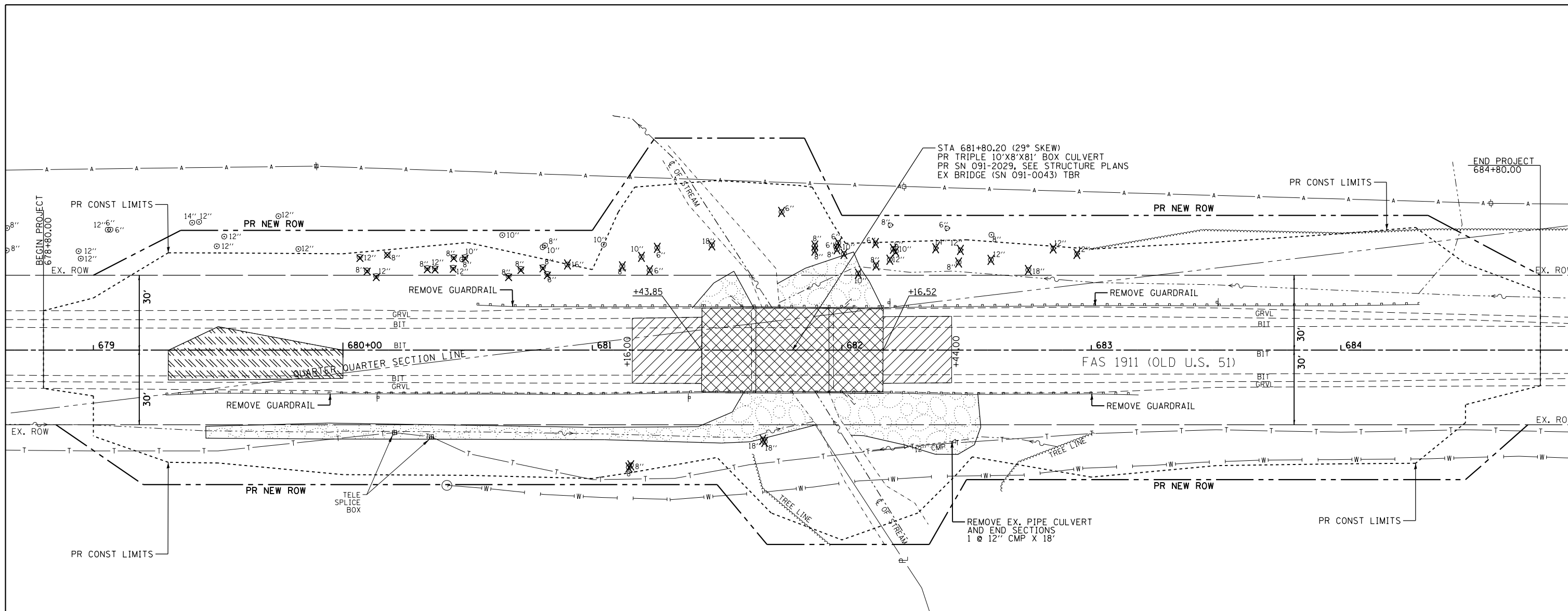
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PLOT DATE = 1/16/2015			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 678+80 TO STA. 684+80

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	17
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				



PROFILE	SUBMITTED	DATE
NOTE BOOK	GRADES CHECKED	
NO.	BY	
	STRUCTURE NOTATIONS	CHRD

PAVEMENT REMOVAL LEGEND

- PAVEMENT REMOVAL
STA. 681+16.00 TO STA. 681+43.85
STA. 682+16.52 TO STA. 682+44.00
 - REMOVAL OF EXISTING STRUCTURE
STA. 681+43.85 TO STA. 682+16.52
 - HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
STA. 679+30.00 TO STA. 680+00.00
- PAVED SHOULDER REMOVAL (PRESTAGE BASE WIDENING)
STA. 681+16.00 TO STA. 681+43.76 (RT)
STA. 682+16.49 TO STA. 682+44.00 (RT)

X TREE REMOVAL

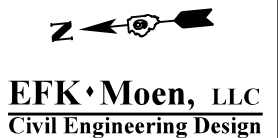
SIZE	STATION	OFFSET	SIDE	SIZE	STATION	OFFSET	SIDE	SIZE	STATION	OFFSET	SIDE	SIZE	STATION	OFFSET	SIDE
12"	680+06.68	37.37'	LT.	8"	680+71.33	32.53'	LT.	8"	681+89.18	41.87	LT.	14"	682+37.62	40.83'	LT.
8"	680+09.64	31.93'	LT.	8"	680+80.17	33.24'	LT.	6"	681+97.68	41.54'	LT.	8"	682+46.80	35.12'	LT.
12"	680+13.37	29.68'	LT.	6"	680+81.98	30.48'	LT.	8"	681+98.05	40.42'	LT.	12"	682+47.53	40.13'	LT.
8"	680+17.83	38.11'	LT.	16"	680+90.04	34.30'	LT.	6"	681+98.54	42.96'	LT.	12"	682+59.76	36.16'	LT.
8"	680+33.84	32.86'	LT.	8"	681+12.01	33.56'	LT.	10"	682+00.85	38.55'	LT.	18"	682+74.75	32.12'	LT.
12"	680+36.94	32.77'	LT.	10"	681+19.69	37.35'	LT.	10"	682+06.59	30.67'	LT.	12"	682+84.72	40.75'	LT.
12"	680+44.22	33.02'	LT.	6"	681+22.96	31.97'	LT.	6"	682+13.50	42.88'	LT.	12"	682+94.21	38.55'	LT.
8"	680+44.44	37.32'	LT.	6"	681+26.00	40.97'	LT.	8"	682+13.69	33.96'	LT.	8"	681+14.63	47.07'	RT.
8"	680+47.83	36.30'	LT.	18"	681+47.89	42.01'	LT.	12"	682+19.25	36.21'	LT.	8"	681+15.41	46.23'	RT.
10"	680+49.00	37.27'	LT.	6"	681+75.85	55.38'	LT.	6"	682+20.63	40.59'	LT.	18"	681+68.35	35.90'	RT.
8"	680+66.42	29.72'	LT.	8"	681+89.16	39.88'	LT.	10"	682+21.60	39.55'	LT.	18"	681+69.07	36.88'	RT.

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		CHECKED - SLD	REVISED -
		DATE - 1/15/15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVALS		
SCALE: 1" = 20'	SHEET NO. 1 OF 1 SHEETS	STA. 678+80 TO STA. 684+80

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	19
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				



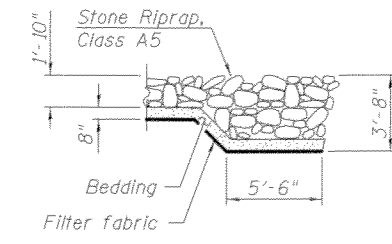
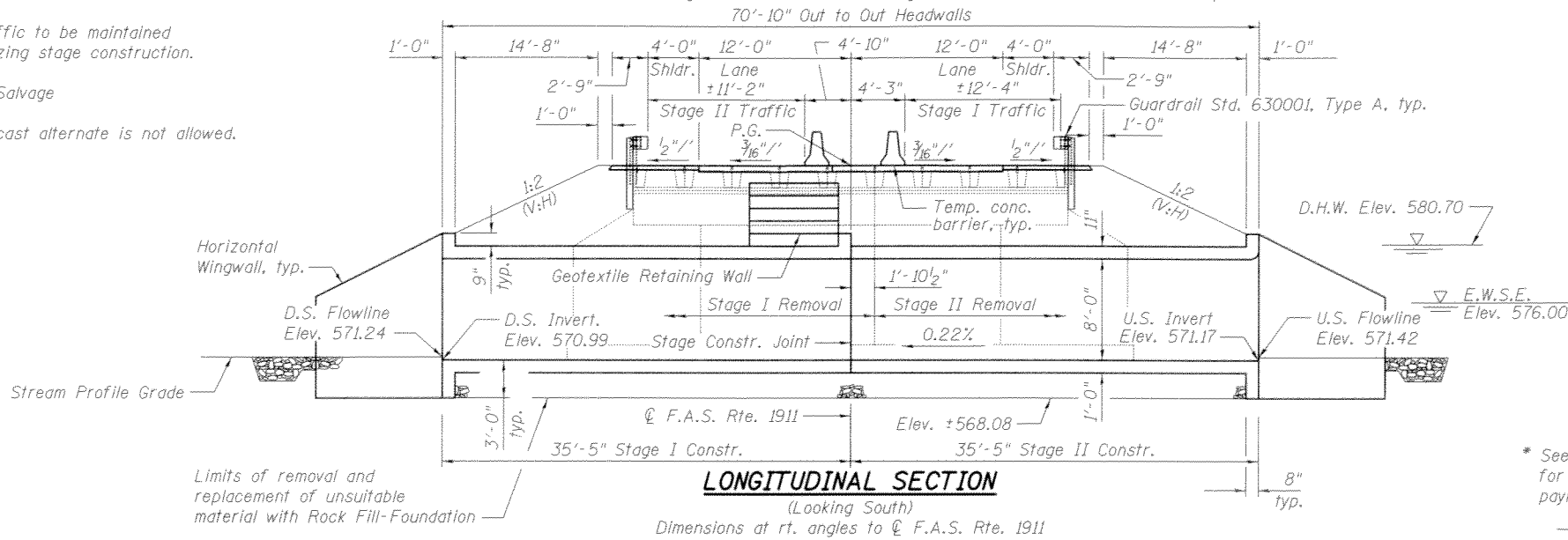
Bench Mark: BM 910043 - Chiseled square on southeast corner of SN 091-0043, Elev. 587.92

Existing Structure: SN 091-0043 was originally built in 1922 as SBI 2 (Section 11A) and widened during a superstructure replacement in 1980 as FAS 1911 (Section 11A-BR). The existing structure is a 33 foot (back-to-back abutments) single span precast concrete channel beam bridge. The substructure consists of the original closed abutments founded on spread footings with widened abutment caps. The deck measures 33'-3" between rails and the overall out-to-out width of the bridge is 34'-9". The existing structure is to be removed and replaced.

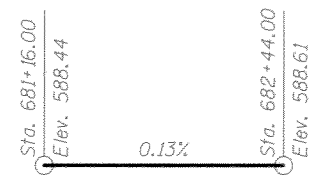
Traffic to be maintained utilizing stage construction.

No Salvage

Precast alternate is not allowed.



SECTION A-A



PROFILE GRADE
(Along Center Roadway)

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2012 AASHTO LRFD
Bridge Design Specifications,
6th Edition

DESIGN STRESSES

FIELD UNITS

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

STATION 681+80.20
BUILT 2011 BY
STATE OF ILLINOIS
F.A.S. RTE. 1911 SEC. 11B-2
LOADING HL-93
STRUCTURE NO. 091-2029

NAME PLATE

See Sta. 515001

WATERWAY INFORMATION

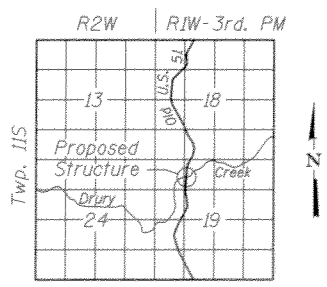
Drainage Area = 1.51 Sq. Mi.		Low Grade Elev. 587.70 @ Sta. 678+49.20			
Flood Yr.	Q C.F.S.	Opening Sq. Ft. Exist. Prop.	Nat. H.W.E. Exist. Prop.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.
10	1040	107.79 227.40	578.75 0.67 0.14	579.42	578.89
Design	50	1780 158.96 240.00	580.70 0.90 0.25	581.60	580.95
Base	100	2120 178.90 240.00	581.46 1.26 0.54	582.72	582.00
Overtopping	-	-	-	-	-
Max. Calc.	500	3030 220.10 240.00	583.03 2.63 1.75	585.66	584.78

DESIGN SCOUR ELEVATION TABLE

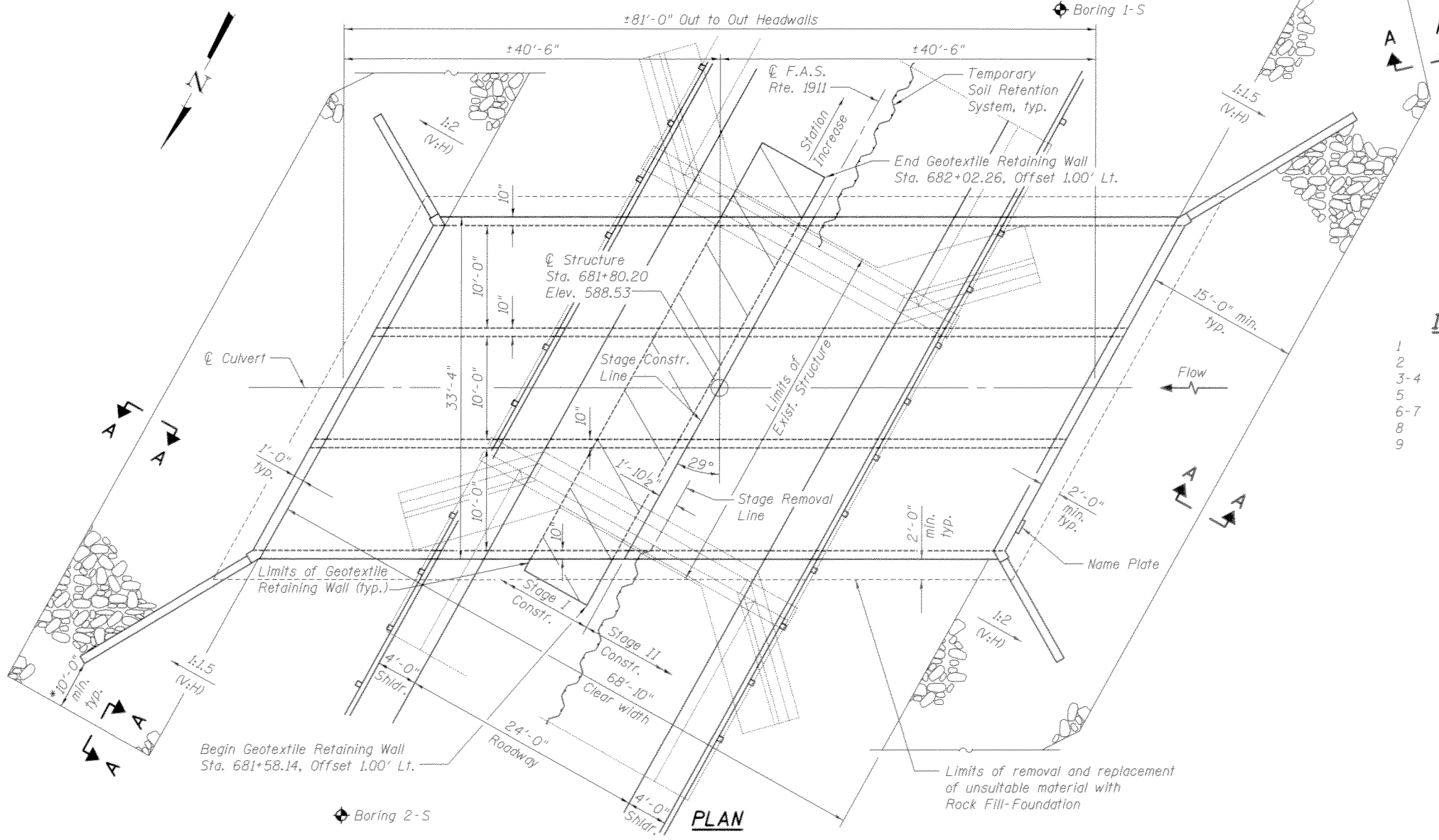
Design Scour Elevation (ft.)	Upstream	Downstream
	568.17	567.99

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Structure Data
- 3-4 Stage Construction Details
- 5 Temporary Concrete Barrier For Stage Construction
- 6-7 Culvert Details
- 8 Bar Splicer Assembly and Mechanical Splicer Details
- 9 Boring Logs



LOCATION SKETCH



PLAN

Jerilyn M. Hassard
01/16/2015
JERILYN M. HASSARD
EDWARDSVILLE, ILLINOIS
ILLINOIS LICENSED STRUCTURAL
ENGINEER NO. 081-006521
EXPIRES 11/30/2016

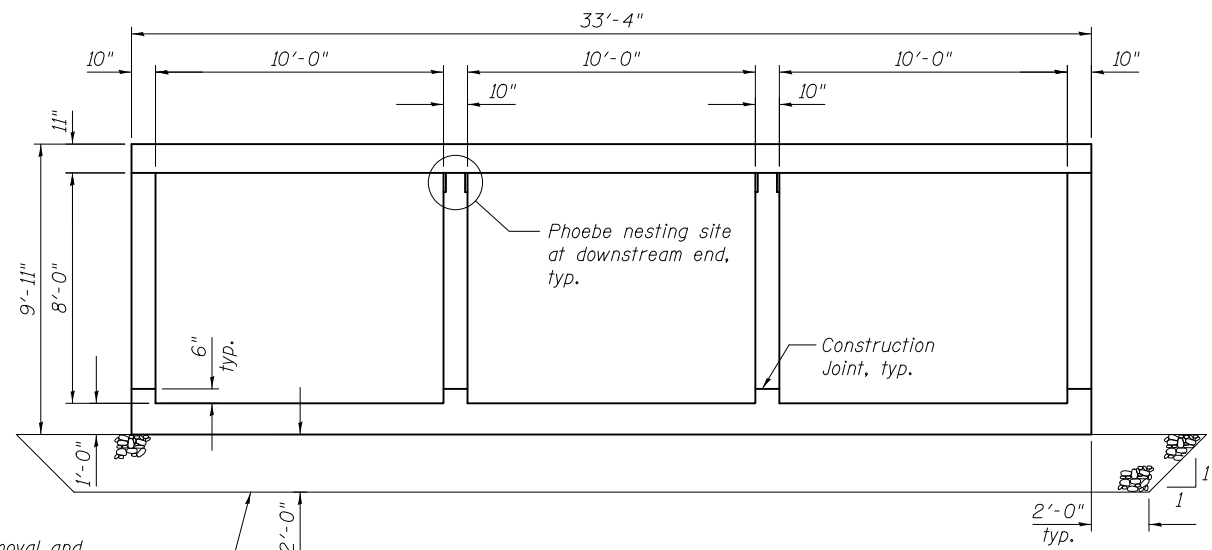
GENERAL PLAN AND ELEVATION
OLD U.S. ROUTE 51
OVER DRURY CREEK
F.A.S. RTE. 1911 - SEC. 11B-2
UNION COUNTY
STATION 681+80.20
STRUCTURE NO. 091-2029

GENERAL NOTES

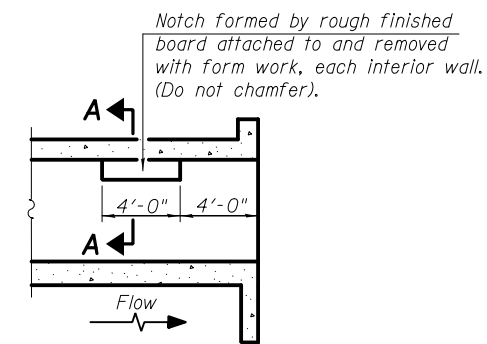
Reinforcement bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
 Removal and replacement of weak soils with Rock Fill-Foundation will be required beneath the culvert. The Engineer will determine the required depth following excavation to plan grade.

TOTAL BILL OF MATERIAL

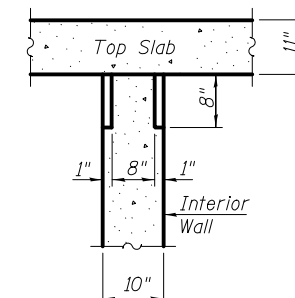
ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	1,375
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	2,116
Reinforcement Bars, Epoxy Coated	Pound	84,260
Bar Splicers	Each	164
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	296.8
Geotextile Retaining Wall	Sq. Ft.	309
Rock Fill-Foundation	Ton	428
Temporary Soil Retention System	Sq. Ft.	727



SECTION THRU BARREL



LONGITUDINAL SECTION



SECTION A-A

PHOEBE NESTING SITE DETAILS
(Downstream End Only)



USER NAME =	DESIGNED - JTH	REVISED -
	CHECKED - CDB	REVISED -
PLOT SCALE =	DRAWN - AEC	REVISED -
PLOT DATE = 01/16/15	CHECKED - JMH	REVISED -

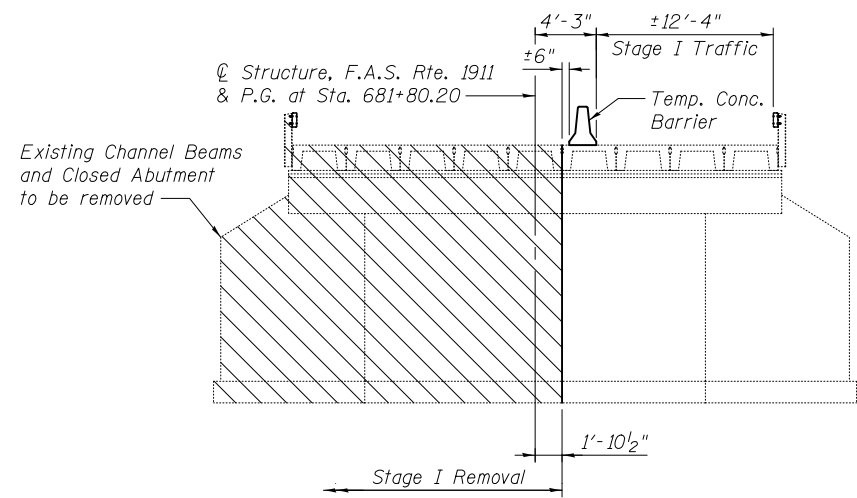
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL STRUCTURE DATA
STRUCTURE NO. 091-2029**

SHEET NO. 2 OF 9 SHEETS

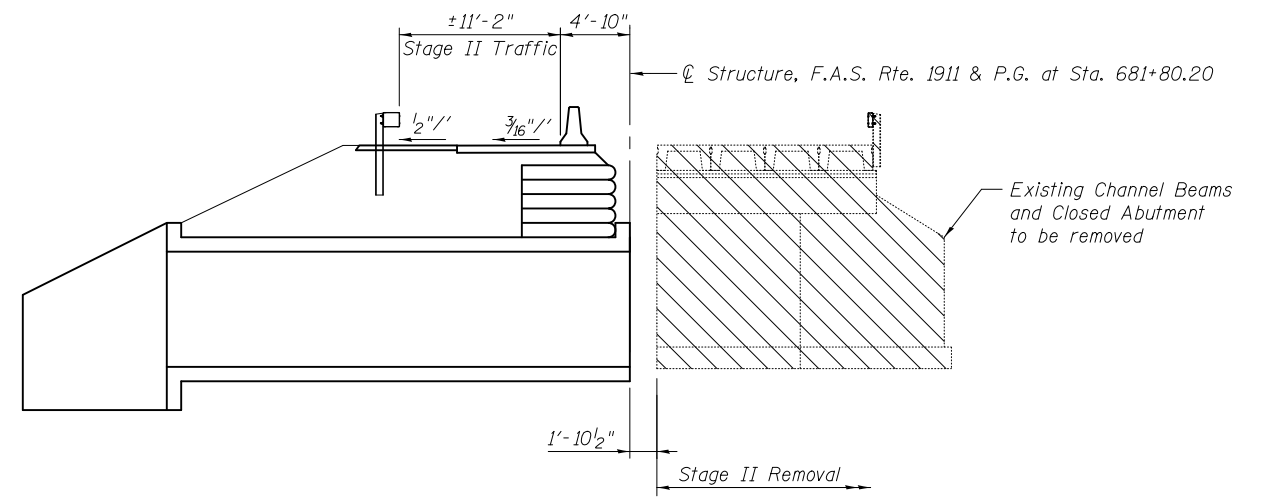
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	21
			CONTRACT NO. 78214	

ILLINOIS FED. AID PROJECT



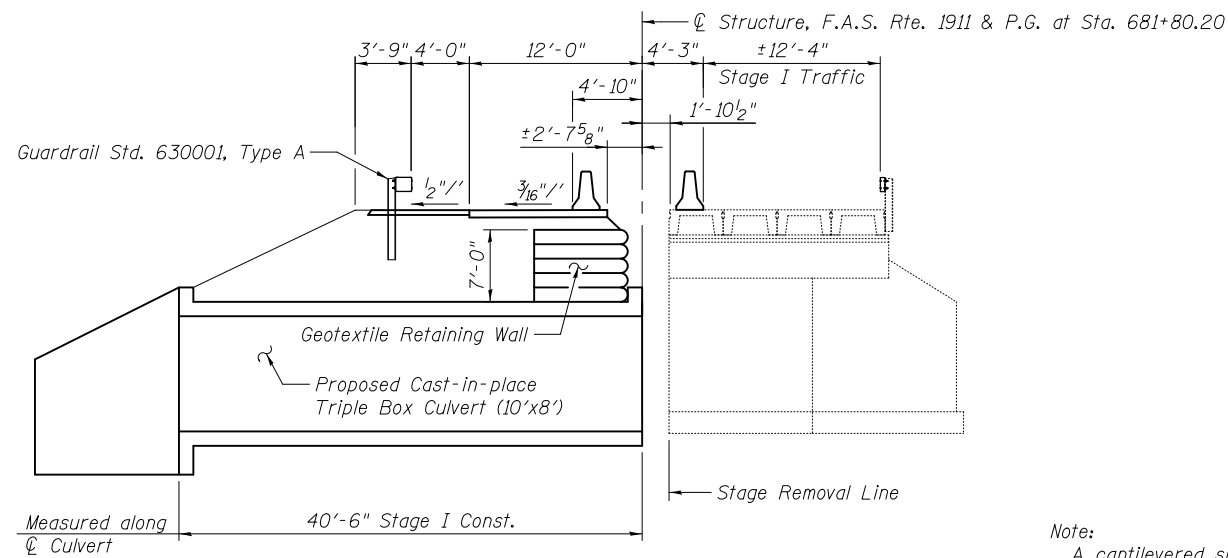
STAGE I REMOVAL

(Looking upstation)
Dimensions at rt. angles to ϕ F.A.S. Rte. 1911



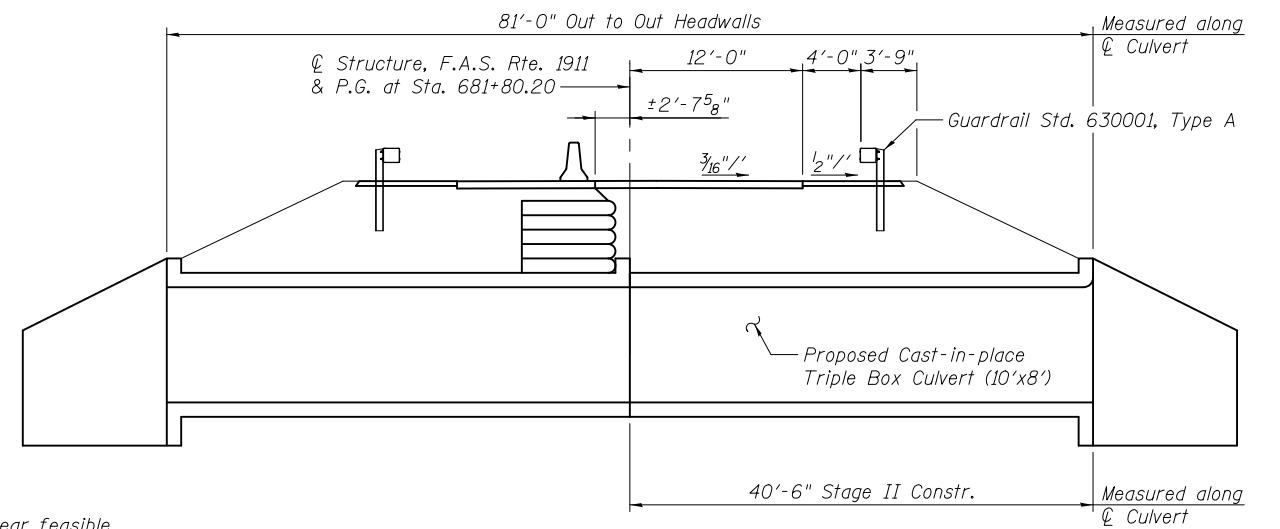
STAGE II REMOVAL

(Looking upstation)
Dimensions at rt. angles to ϕ F.A.S. Rte. 1911



STAGE I CONSTRUCTION

(Looking upstation)
Dimensions at rt. angles to ϕ F.A.S. Rte. 1911
unless noted otherwise

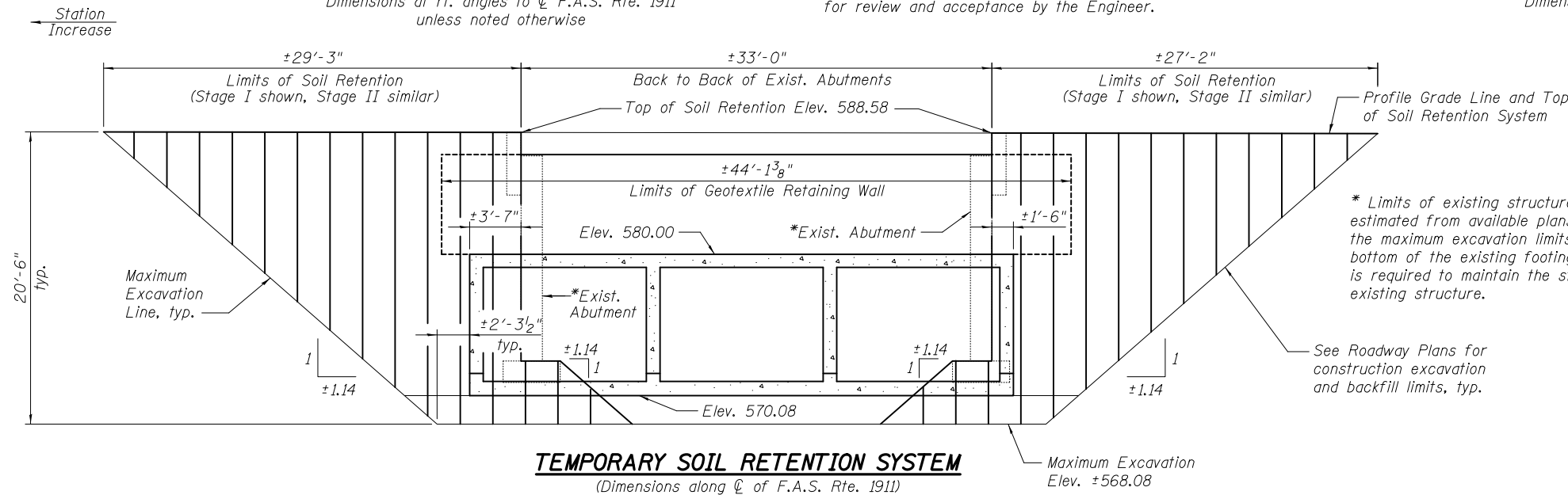


STAGE II CONSTRUCTION

(Looking upstation)
Dimensions at rt. angles to ϕ F.A.S. Rte. 1911
unless noted otherwise

Note:
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

Notes:
For details of Temporary Concrete Barrier see Sheet No. 5 of 9.
For details of Geotextile Retaining Wall see Sheet 4 of 9.
For quantity of Temporary Concrete Barrier see Roadway Plans.
Hatched areas indicate areas of removal to be paid for as Removal of Existing Structures. The existing structure, including footings, shall be removed at least 1'-0" below the proposed ground line and as required for construction of the culvert.



TEMPORARY SOIL RETENTION SYSTEM
(Dimensions along ϕ of F.A.S. Rte. 1911)

* Limits of existing structure have been estimated from available plans. As shown, the maximum excavation limits are below the bottom of the existing footings. Soil retention is required to maintain the stability of the existing structure.

See Roadway Plans for construction excavation and backfill limits, typ.

BILL OF MATERIAL

Item	Unit	Total
Geotextile Retaining Wall	Sq. Ft.	309
Temporary Soil Retention System	Sq. Ft.	727



USER NAME =	DESIGNED - JTH	REVISED -
PLOT SCALE =	CHECKED - CDB	REVISED -
PLOT DATE = 01/16/15	DRAWN - PRC	REVISED -
	CHECKED - JMH	REVISED -

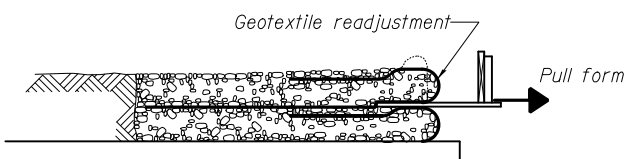
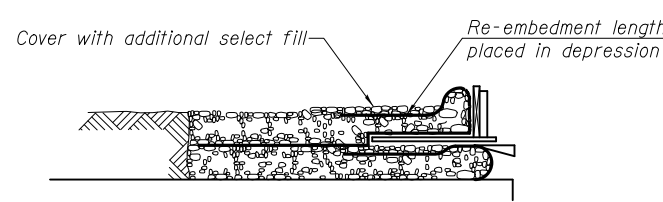
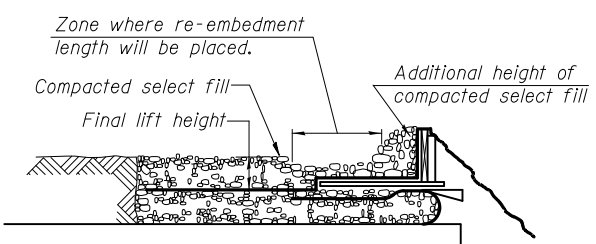
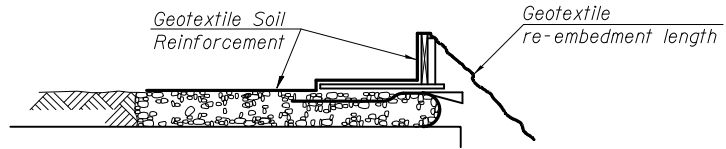
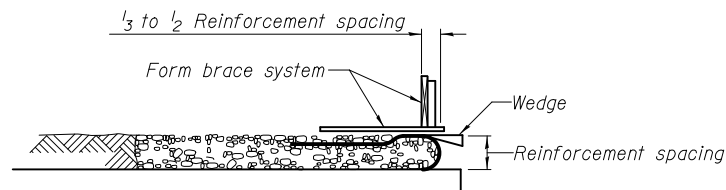
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS - 1
STRUCTURE NO. 091-2029

SHEET NO. 3 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	22
CONTRACT NO. 78214				

ILLINOIS FED. AID PROJECT



1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of $\frac{1}{3}$ to $\frac{1}{2}$ the geotextile reinforcement spacing.

2. Position fabric so that the required geotextile re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.

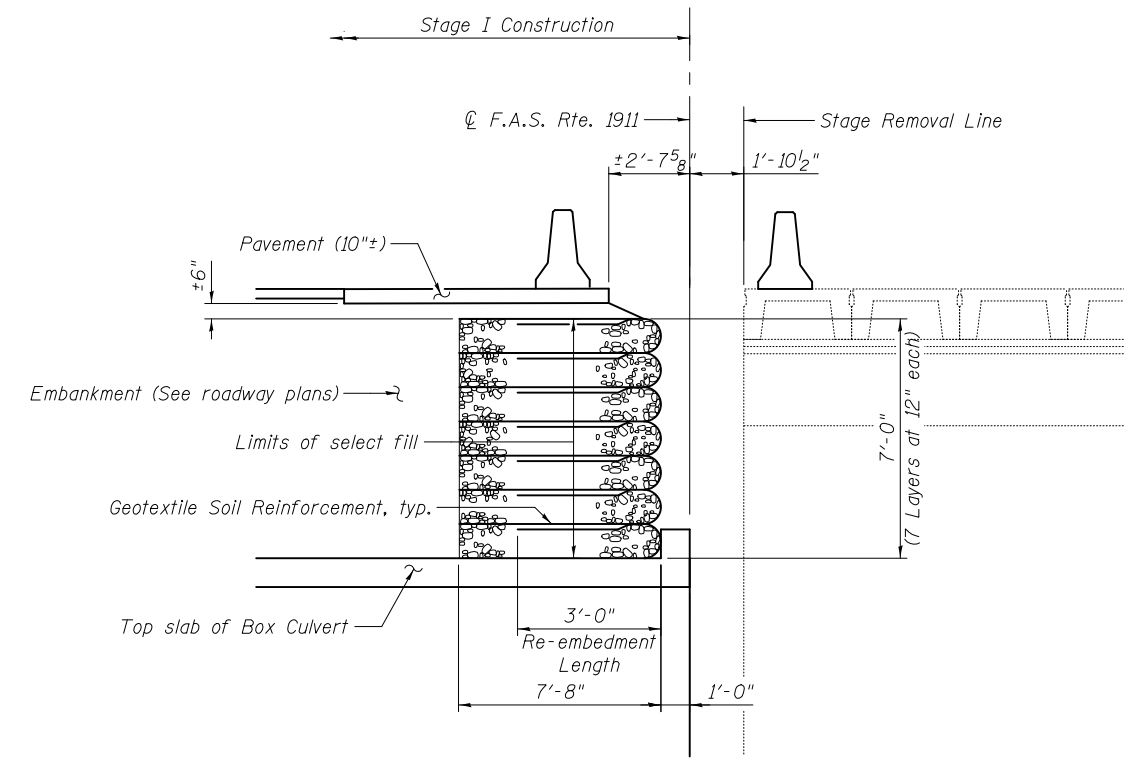
3. Compact select fill material in lifts to final lift height, create ($\pm 3'$) depression in zone where re-embedment length will be located and place additional height of compacted select fill against form brace.

4. Fold geotextile re-embedment length back over form brace into zone where depression was made in select fill and place additional select fill ($\pm 3'$) to embed geotextile and bring to final lift height.

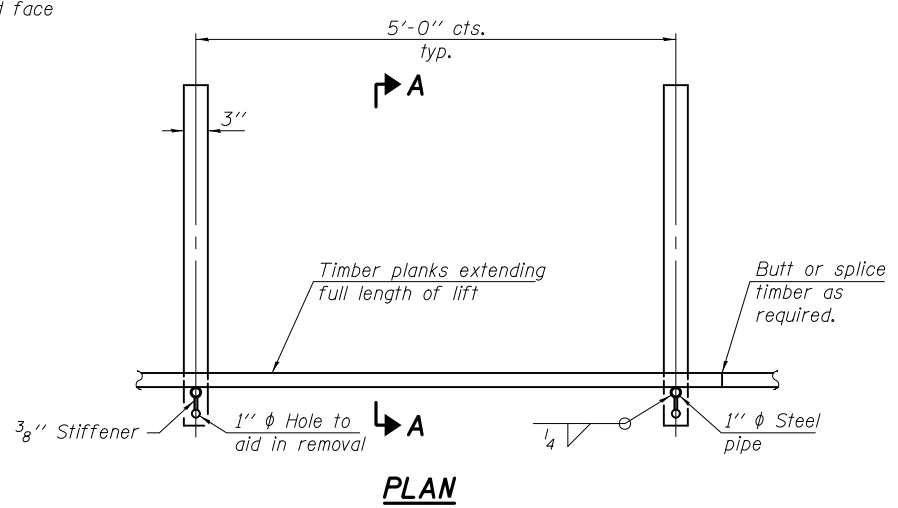
5. Pull form brace outward allowing geotextile face to slightly readjust to form tight round face level with plan reinforcement spacing.

TEMPORARY GEOTEXTILE WALL CONSTRUCTION SEQUENCE

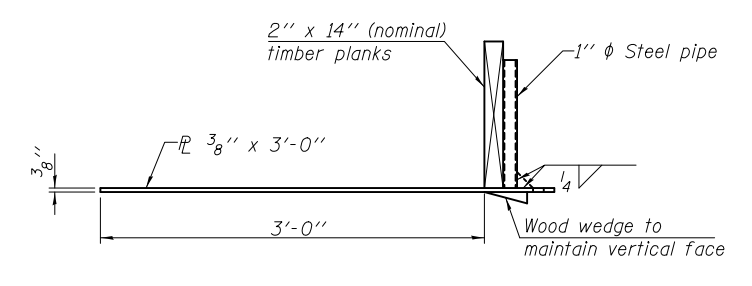
Note:
The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of 35 lb./in. as determined by the procedure described in the Special Provision. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.



GEOTEXTILE RETAINING WALL DETAIL



PLAN



SECTION A-A

TEMPORARY GEOTEXTILE FORM BRACE DETAIL

Note:
This is a suggested detail, the Contractor is responsible for the design of the form brace system to be used.



USER NAME =	DESIGNED - JTH	REVISED -
	CHECKED - CDB	REVISED -
PLOT SCALE =	DRAWN - PRC	REVISED -
PLOT DATE = 01/16/15	CHECKED - JMH	REVISED -

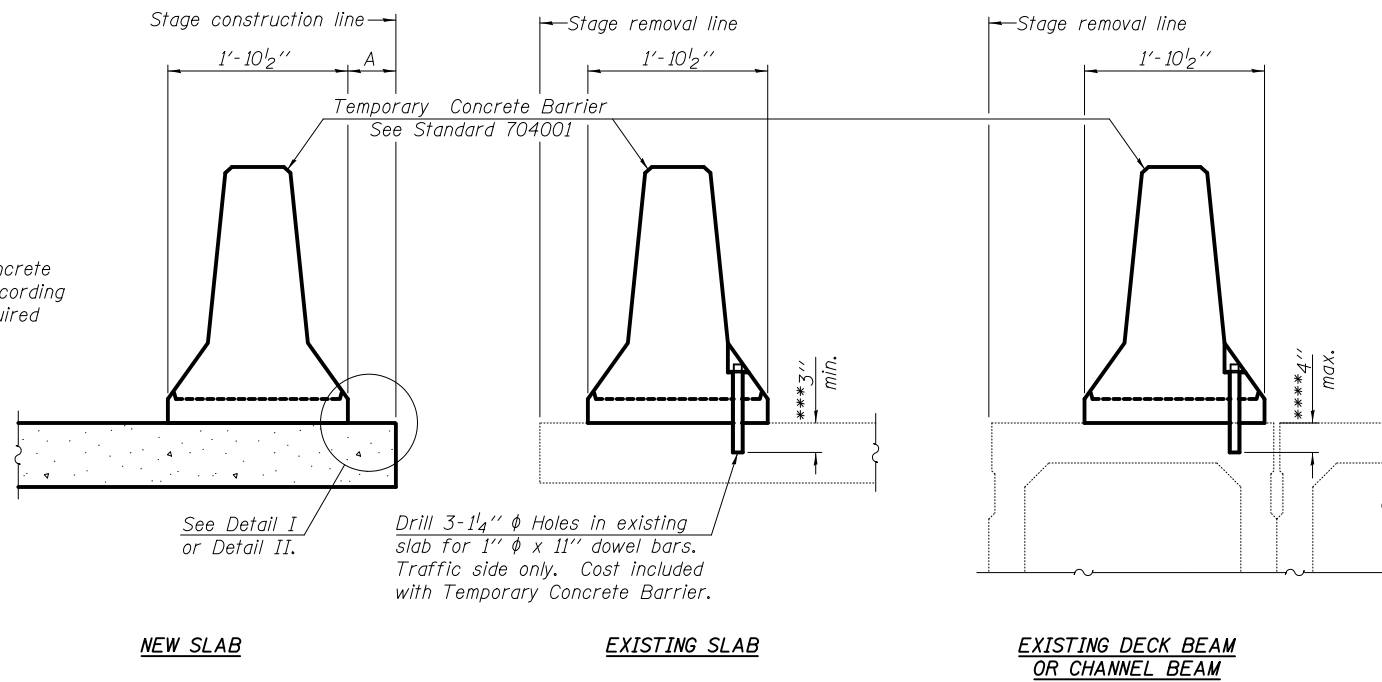
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS - 2
STRUCTURE NO. 091-2029

SHEET NO. 4 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	23
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR BEAM

NOTES

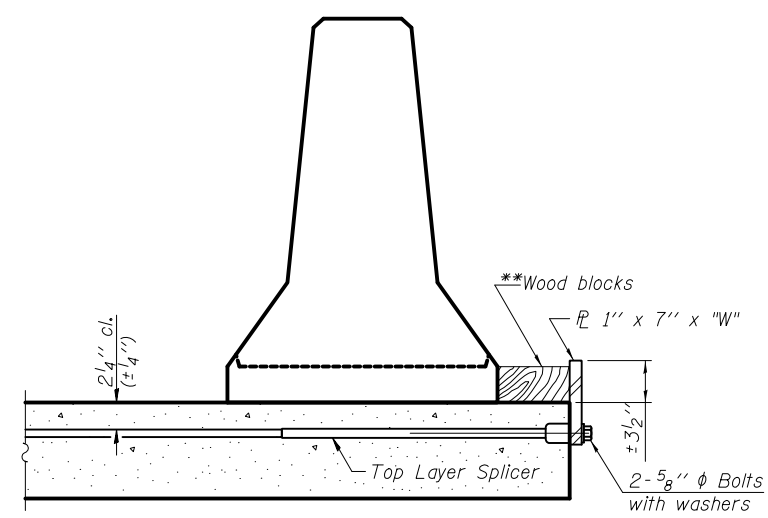
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{P} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel \bar{P} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.

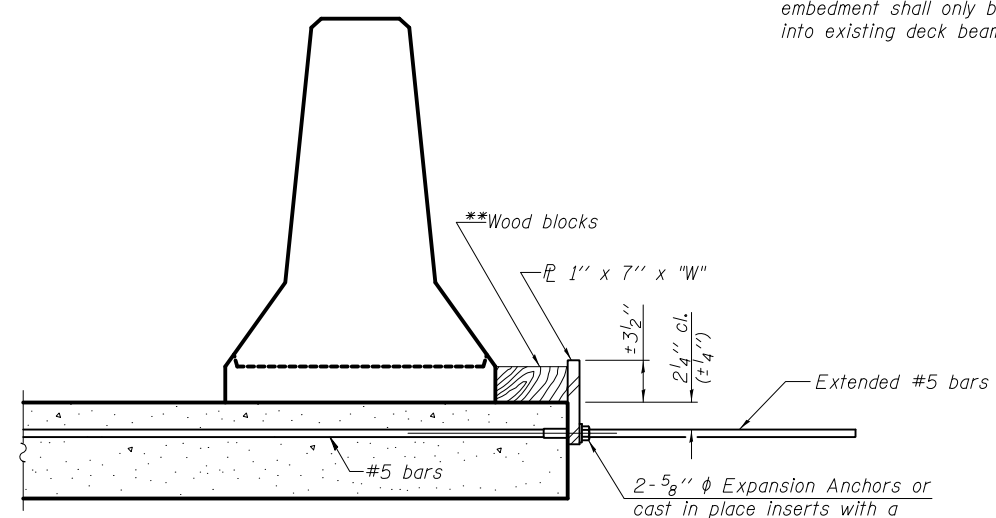
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

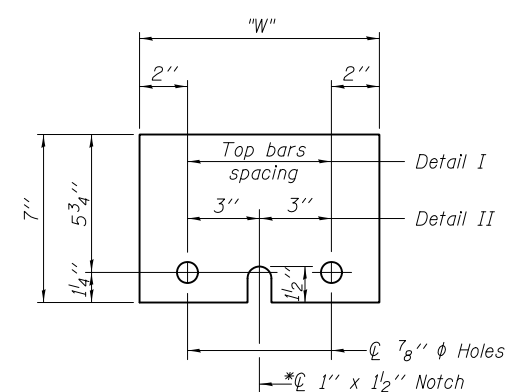
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{P} 1" x 7" x "W"

* Required only with Detail II

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

R-27

7-1-10



USER NAME =	DESIGNED - JTH	REVISED -
	CHECKED - CDB	REVISED -
PLOT SCALE =	DRAWN - AEC	REVISED -
PLOT DATE = 01/16/15	CHECKED - JMH	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

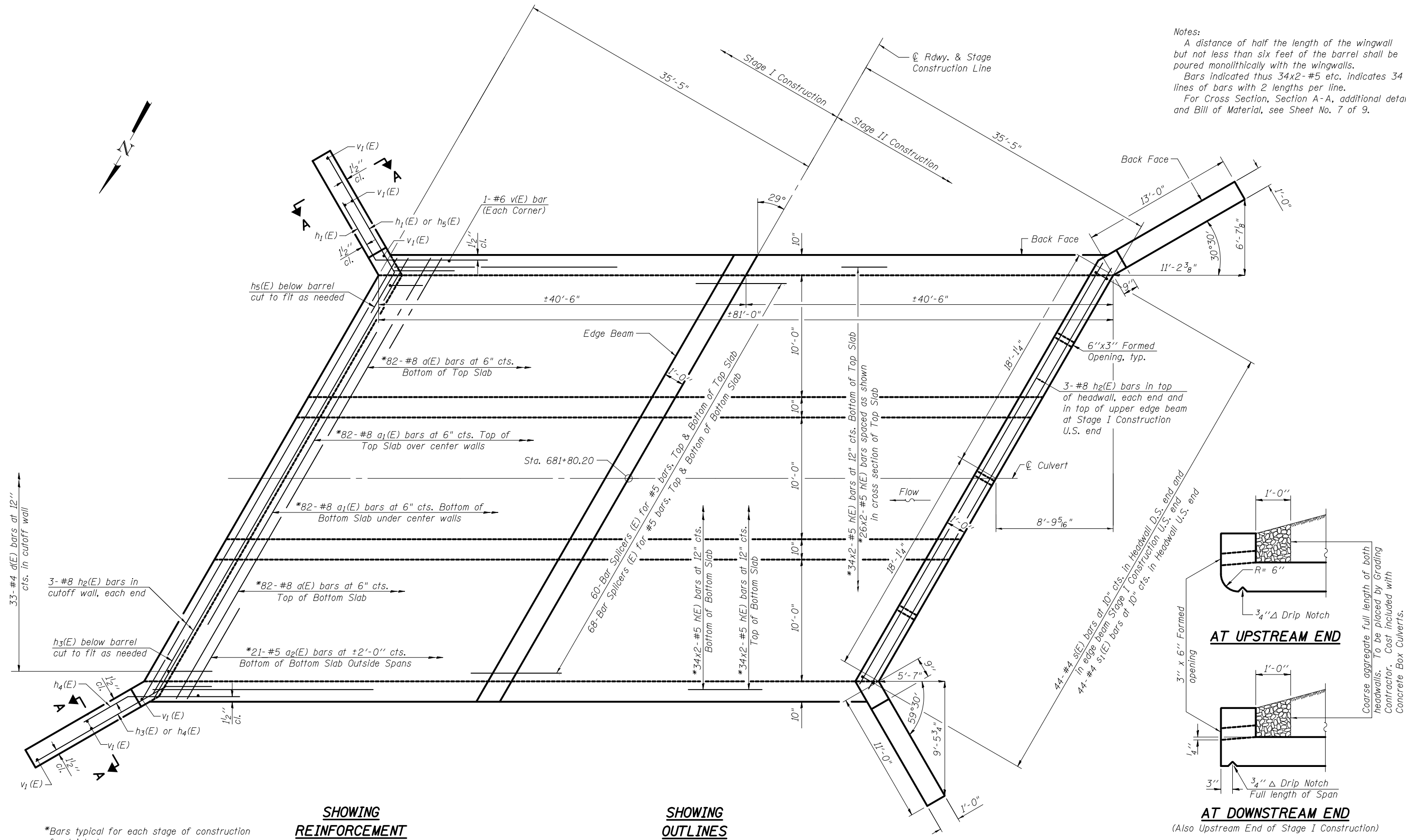
**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 091-2029**

SHEET NO. 5 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	24
CONTRACT NO. 78214				

ILLINOIS FED. AID PROJECT

Notes:
 A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
 Bars indicated thus 34x2-#5 etc. indicates 34 lines of bars with 2 lengths per line.
 For Cross Section, Section A-A, additional details and Bill of Material, see Sheet No. 7 of 9.



SHOWING REINFORCEMENT

SHOWING OUTLINES

PLAN

AT UPSTREAM END
AT DOWNSTREAM END
 (Also Upstream End of Stage I Construction)

DRAIN DETAIL

*Bars typical for each stage of construction for triple box.



USER NAME =	DESIGNED - JTH	REVISED -
	CHECKED - CDB	REVISED -
PLOT SCALE =	DRAWN - PRC	REVISED -
PLOT DATE = 01/16/15	CHECKED - JTH	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CULVERT DETAILS - 1
 STRUCTURE NO. 091-2029**

SHEET NO. 6 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	25
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				

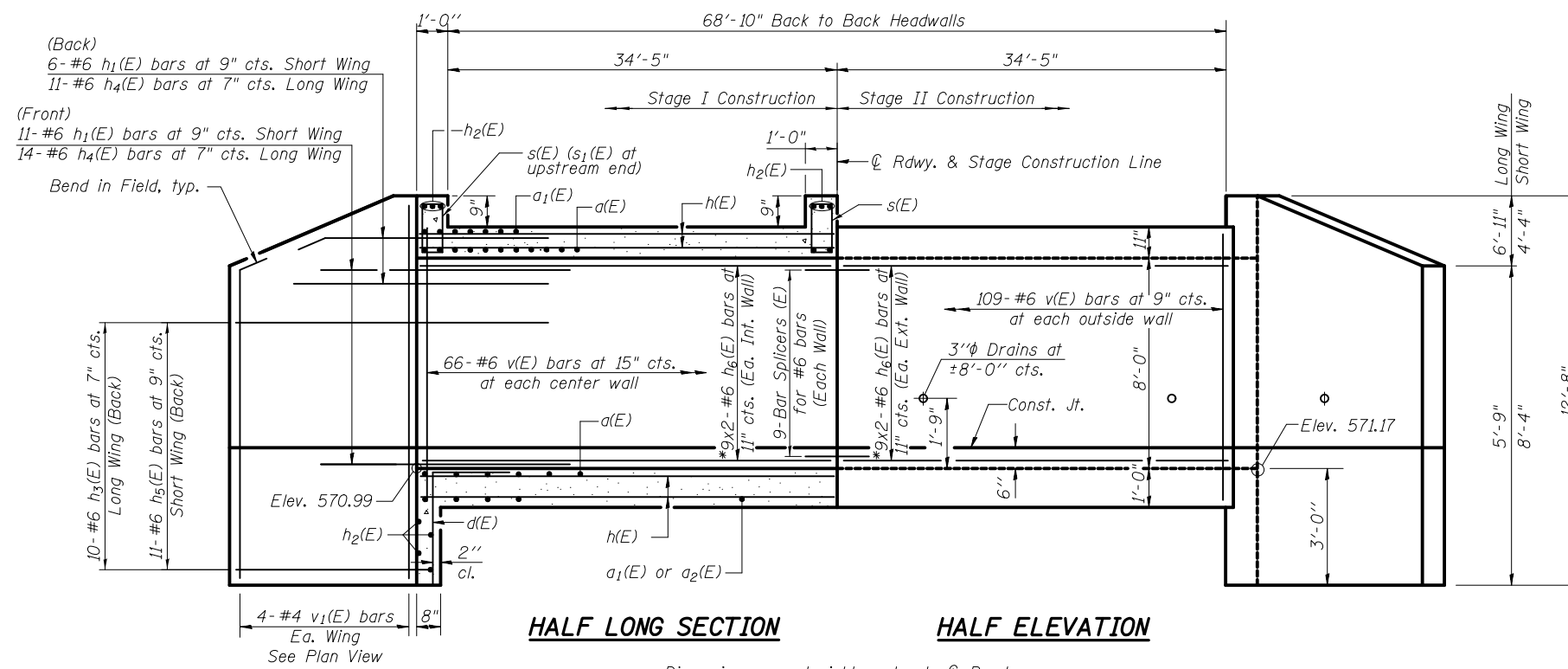
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	328	#8	39'-5"	
a ₁ (E)	328	#8	26'-8"	
a ₂ (E)	84	#5	8'-8"	
d(E)	66	#4	4'-6"	
h(E)	512	#5	21'-8"	
h ₁ (E)	34	#6	8'-0"	
h ₂ (E)	15	#8	36'-5"	
h ₃ (E)	20	#6	16'-10"	
h ₄ (E)	50	#6	8'-0"	
h ₅ (E)	22	#6	14'-1"	
h ₆ (E)	144	#6	21'-11"	
v(E)	354	#6	9'-7"	
v ₁ (E)	16	#4	12'-4"	
s(E)	88	#4	5'-1"	
s ₁ (E)	44	#4	4'-11"	
Reinforcement Bars, Epoxy Coated			Pound	84,260
Concrete Box Culverts			Cu. Yd.	296.8

Notes:
 Bars indicated thus 9x2-#6 etc. indicates 9 lines of bars with 2 lengths per line.
 For Culvert Plan view and location of Section A-A, see Sheet No. 6 of 9.
 For Bar Splicer Assembly Details, see Sheet No. 8 of 9.

MIN. BAR LAP

#5 bars - 2'-7"
 #6 bars - 3'-6"

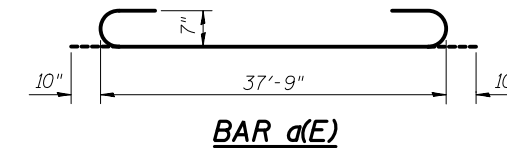


HALF LONG SECTION

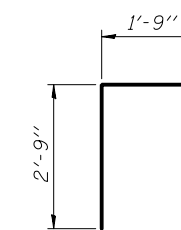
HALF ELEVATION

Dimensions are at right angles to \varnothing Roadway

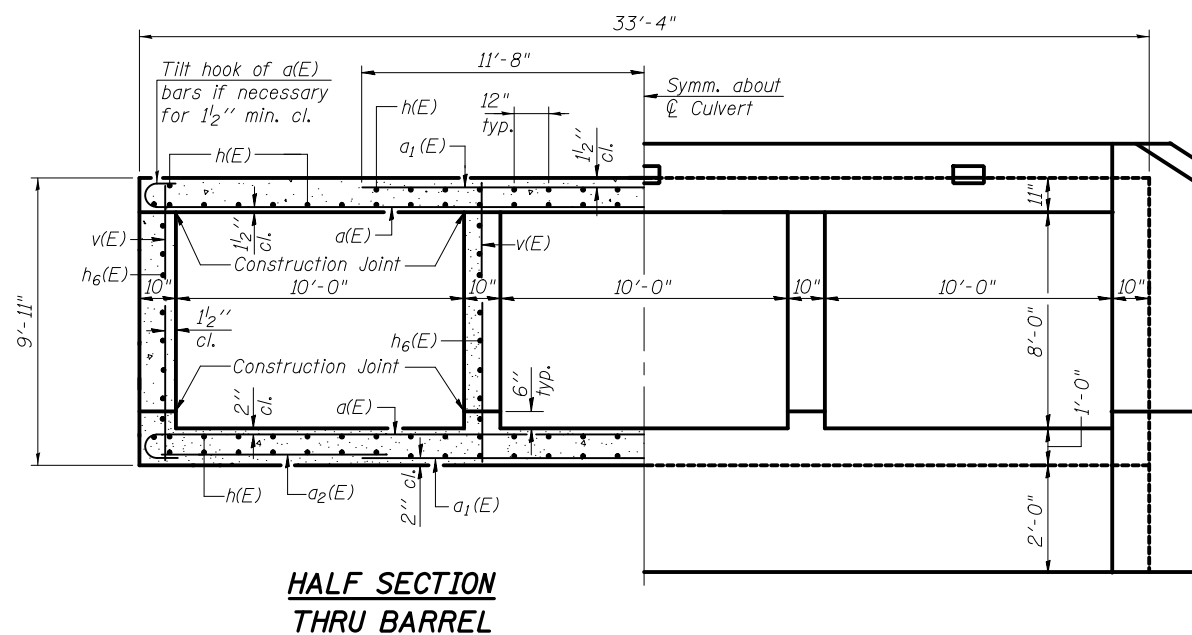
* Bars typical for each stage construction triple box



BAR d(E)

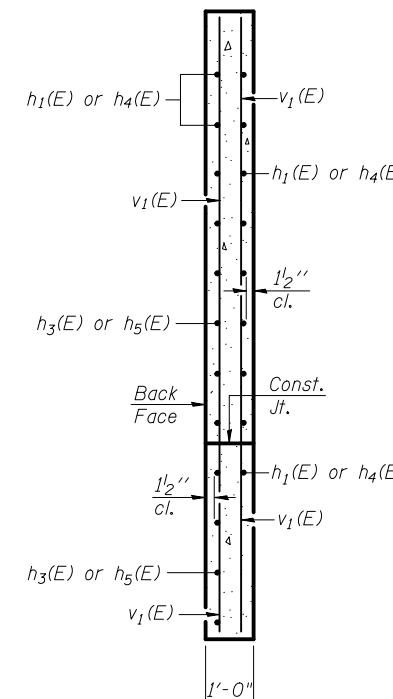


BAR d(E)

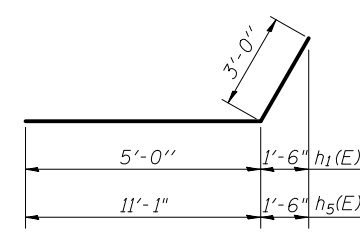


HALF SECTION THRU BARREL

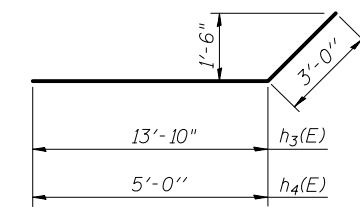
HALF END ELEVATION



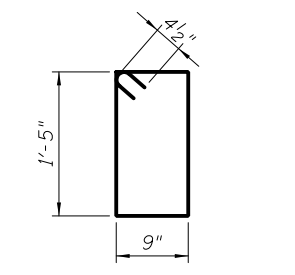
SECTION A-A



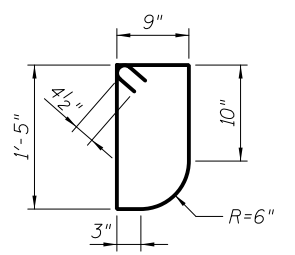
BARS h₁(E) & h₅(E)



BARS h₃(E) & h₄(E)



BARS s(E)



BARS s₁(E)



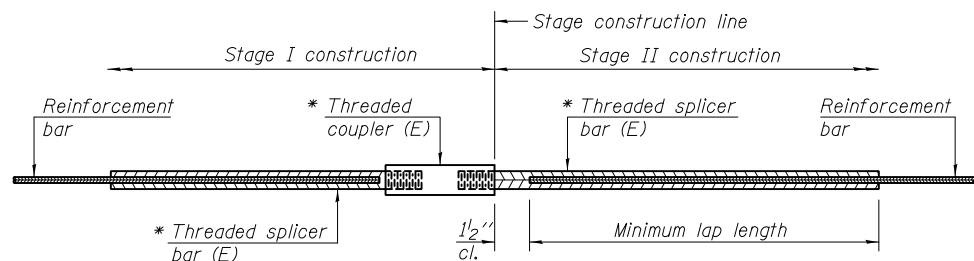
USER NAME =	DESIGNED - JTH	REVISED -
PLOT SCALE =	CHECKED - CDB	REVISED -
PLOT DATE = 01/16/15	DRAWN - PRC	REVISED -
	CHECKED - JTH	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS - 2
 STRUCTURE NO. 091-2029

SHEET NO. 7 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	26
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY

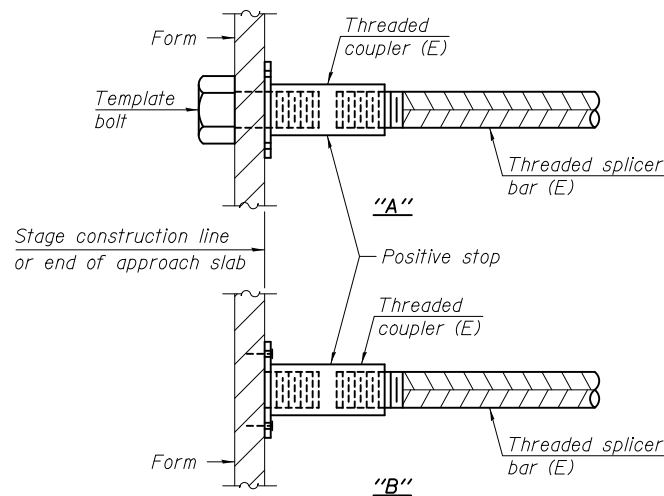
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

- 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, Class C
- Table 6: Epoxy bar, Top bar top, Class C

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

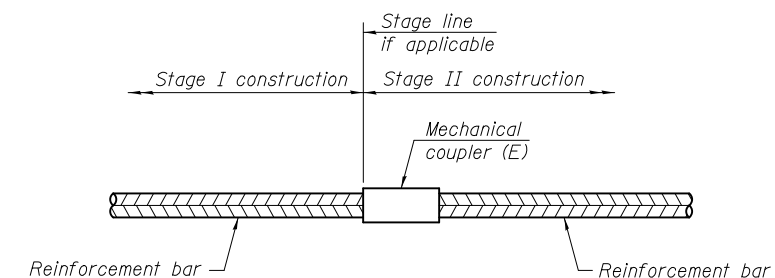
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Top Slab	5	60	3
Culvert Walls	6	36	4
Bottom Slab	5	68	3



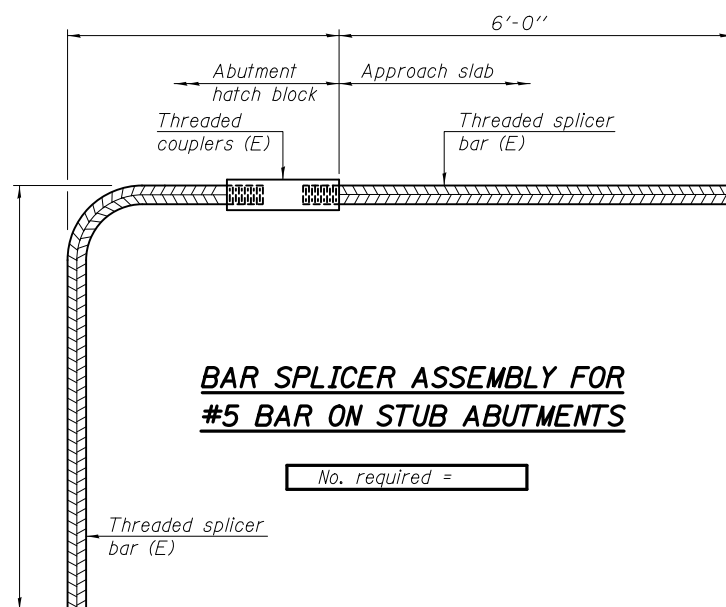
INSTALLATION AND SETTING METHODS

"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 STUB ABUTMENTS

No. required =

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 approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

8-31-12



USER NAME =	DESIGNED - JTH	REVISED -
	CHECKED - CDB	REVISED -
PLOT SCALE =	DRAWN - AEC	REVISED -
PLOT DATE = 01/16/15	CHECKED - JMH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 091-2029

SHEET NO. 8 OF 9 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	27
CONTRACT NO. 78214				

ILLINOIS FED. AID PROJECT

ILLINOIS DEPARTMENT OF TRANSPORTATION
 District Nine Materials
 FAS 1911 (Old US Hwy 51) Over Drury Creek
 Route: FAS 1911 Structure Number: 091-0043 Date: 6/2/2011
 Section 11A-BR Location: 0.8 mile North of Cobden Bored By: R Moberly
 County: Union Checked By: R Graeff

Bridge Foundation
 Boring Log
 Sheet 1 of 1

Boring No 1-S Station 682+32 Offset 11' Rt CL Ground Surface 588.3 Ft	D E P T H	B L O W S	Qu tsf	W%	Surf Wat Elev: 573.5 Ground Water Elevation when Drilling _____ At Completion _____ At: Hrs: _____	D E P T H	B L O W S	Qu tsf	W%
16" Asphalt					Cored 22.0 to 27.0 feet				
588.8					100% Recovery, 83% RQD				
Medium, moist to very moist, brown mottled grey, Silty Clay Loam A-6		Augered			561.3				
		1			Hard, dry, grey, Clay Shale				
		2	0.7S	24	Cored 27.0 to 32.0 feet				
		1			50% Recovery; 12% RQD				
		5.0	1		30.0				
		1	0.6B	27	556.3				
581.3		1			Hard, dry, grey, Clay Shale				
Soft, very moist, grey, Silty Clay Loam A-4		WH			Cored 32.0 to 37.0 feet				
		1	0.4B	27	100% Recovery; 7% RQD				
		WH			35.0				
		10.0	WH		551.3				
576.3		1	0.3B	30	Bottom of hole = 37.0 Feet				
Stiff, moist, grey, Silt Loam to Silty Clay Loam A-4		2			No free water observed				
		6	1.2S	21	Elevation referenced to BM at SE corner of bridge; Elev. = 587.9 Ft.				
		7			Borehole advanced with hollow stem auger (8" O.D., 3.25" I.D.)				
573.8		15.0	WH		To convert "N" values to "N60" multiply by 1.25				
Very soft, very moist, grey, Silt Loam A-4		WH			40.0				
		1	0.1B	26	571.3				
Medium to stiff, moist, brown mottled grey, Silty Clay A-6		1			568.8				
		2	1.0B	25	Medium, very moist, grey and brown, Clay A7-6 with broken Sandstone gravel				
		1			20.0				
		4	0.8E	20	566.3				
568.8		7			Hard, dry, grey, Clay Shale				
566.3					100/0.5"				
565.8					Hard, dry, grey, Clay Shale				
					Cored 22.0 to 27.0 feet				
		25.0			50.0				

N-Std Penr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

ILLINOIS DEPARTMENT OF TRANSPORTATION
 District Nine Materials
 FAS 1911 (Old US Hwy 51) Over Drury Creek
 Route: FAS 1911 Structure Number: 091-0043 Date: 6/3/2011
 Section 11A-BR Location: 0.8 mile North of Cobden Bored By: R Moberly
 County: Union Checked By: R Graeff

Bridge Foundation
 Boring Log
 Sheet 1 of 1

Boring No 2-S Station 681+26 Offset 12' Lt CL Ground Surface 588.2 Ft	D E P T H	B L O W S	Qu tsf	W%	Surf Wat Elev: 573.5 Ground Water Elevation when Drilling 571.2 At Completion _____ At: Hrs: _____	D E P T H	B L O W S	Qu tsf	W%
8.5" Asphalt over 10" concrete					Cored				
588.7					Hard, dry, grey, Clay Shale				
Medium, moist to very moist, brown, Silty Clay A-6		Augered			Cored 24.0 to 29.0 feet				
		1			93% Recovery; 45% RQD				
		1	0.8B	21	559.2				
		1			Hard, dry, grey, Clay Shale				
		5.0	1		30.0				
583.7		1	0.7S	23	Cored 29.0 to 34.0 feet				
Medium, very moist, brown mottled grey, Silty Clay Loam A-6		1			80% Recovery; 33% RQD				
		1			554.2				
581.2		1			Hard, dry, grey, Clay Shale				
Soft, very moist, brown mottled grey, Silt Loam to Silty Clay Loam A-4		1	0.4B	24	Cored 34.0 to 39.0 feet				
		1			80% Recovery; 9% RQD				
		10.0	WH		35.0				
576.2		WH	0.3B	28	Hard, dry, grey, Clay Shale				
		WH			Cored 34.0 to 39.0 feet				
		3			80% Recovery; 9% RQD				
		8	1.4S	21	549.2				
		10			Bottom of hole = 39.0 Feet				
573.7		15.0	WH		Free water observed at 17.0 Feet				
Very soft, wet, grey, Silt Loam A-4		1	0.1B	29	Elevation referenced to BM at SE corner of bridge; Elev. = 587.9 Ft				
		WH			Borehole advanced with hollow stem auger (8" O.D., 3.25" I.D.)				
		1			To convert "N" values to "N60" multiply by 1.25				
		WH			45.0				
571.2		WH	0.0B	25	Very soft, wet, grey, Silt Loam A-4 with sand layers				
		WH			Stiff, moist to very moist, brown mottled grey, Silty Clay Loam A-6				
		1	1.1B	22	20.0				
		2			568.7				
568.7					Soft, very moist, brown mottled grey, Silty Clay Loam A-6				
		WH			WH				
		WH	0.4B	28	566.2				
566.2		WH			Hard, dry, grey, Clay Shale				
					100/0.5"				
					564.2				
564.2					Hard, dry, grey, Clay Shale				
					25.0				
		25.0			50.0				

N-Std Penr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)



USER NAME =	DESIGNED - JTH	REVISED -
	CHECKED - CDB	REVISED -
PLOT SCALE =	DRAWN - AEC	REVISED -
PLOT DATE = 01/16/15	CHECKED - JMH	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS
 STRUCTURE NO. 091-2029

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	28
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				

Note:

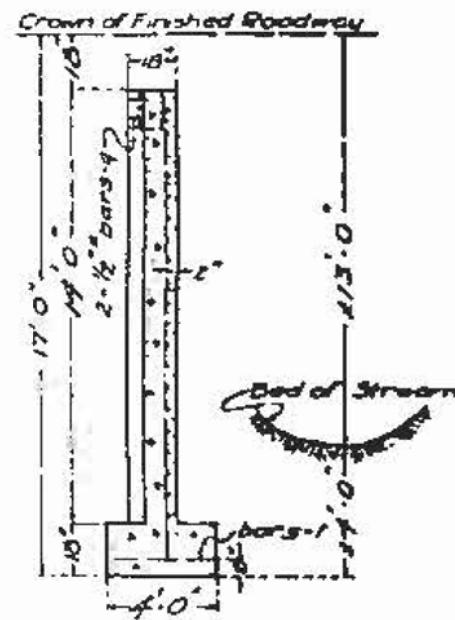
For B.M. see road plans
 h_1, h_2 and h_3 bars to be
 placed 2" from stream
 side of wings and support-
 ed by bars "K" and "K₁".

For paper joint - fixed end,
 1/2" bituminous felt joint -
 separation end.

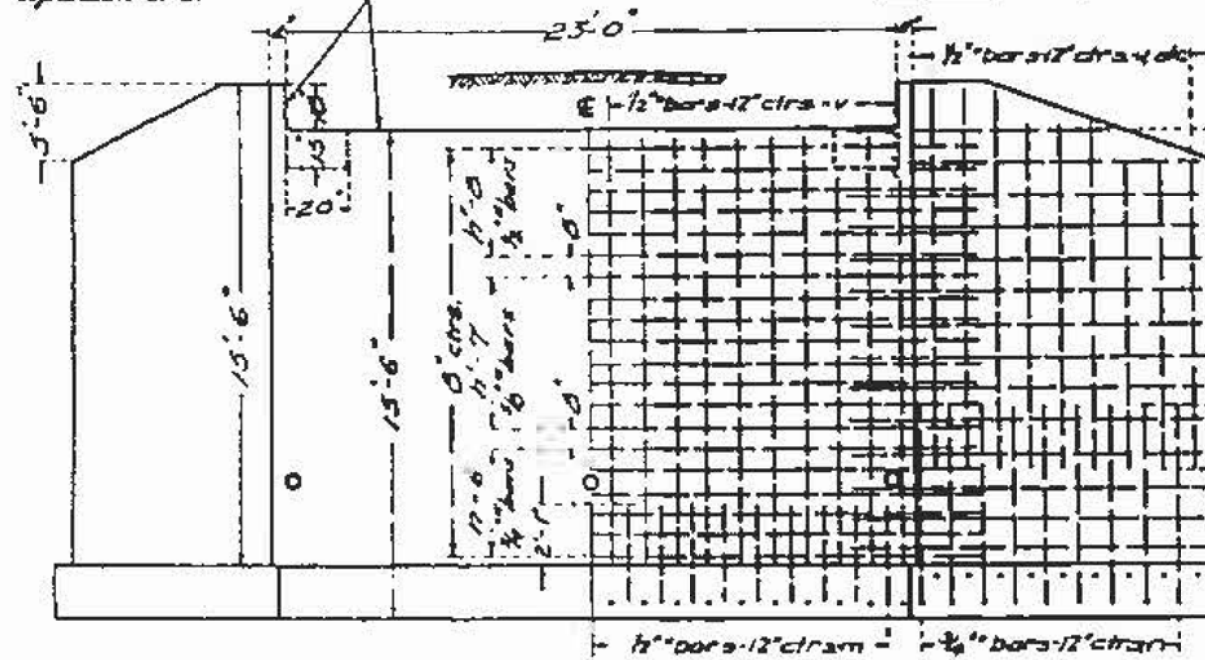
STATE OF ILLINOIS
 STATE HIGHWAY DEPARTMENT
 R. C. ABUTMENTS FOR GIRDER BRIDGE
 HEIGHT OVER ALL 17 FT.

Sheet No. 2
 of 2 sheets

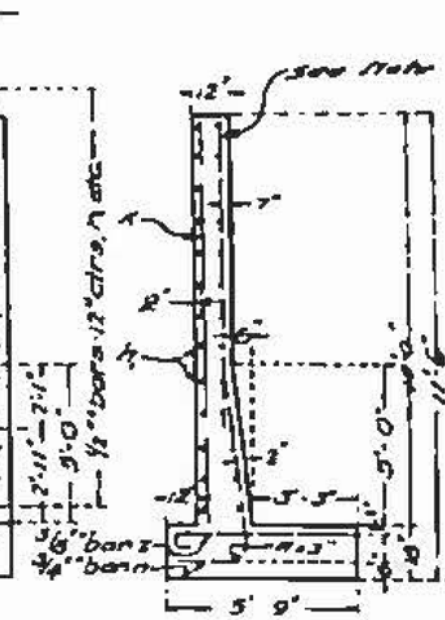
FED. ROAD DIST. NO.	STATE	FED-AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	ILL	1A	20	38	39



SECTION OF ABUTMENT



FRONT ELEVATION
 SHOWING OUTLINES SHOWING REINFORCEMENT



END OF WING

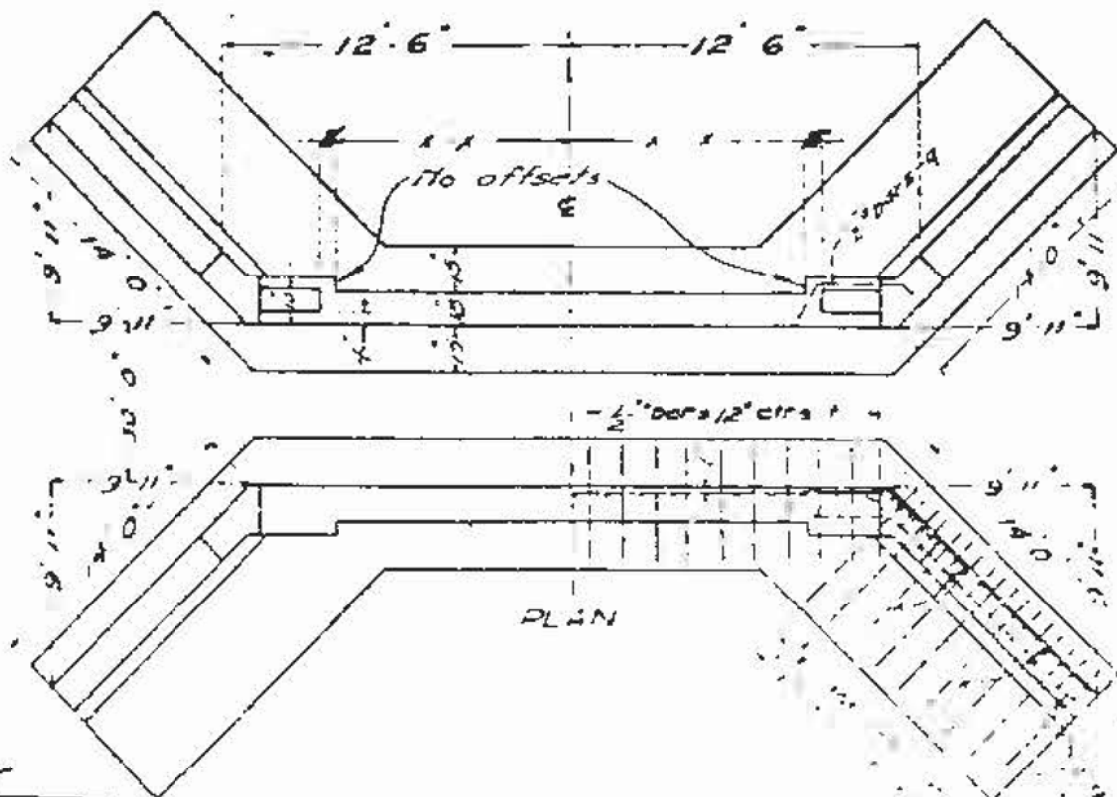
HORIZONTAL STEEL - MAIN WALL

Bars	Length of Bridge Seat.									
	18'0"	20'	21'0"	22'0"	23'0"	24'0"	25'0"	26'0"	27'0"	28'0"
No	7	6	5	6	8	8	9	10		
h Size	7/8"	1"	1 1/8"	1 1/4"	1 1/2"	1 3/4"	1 7/8"	2"		
Cls	7 1/2"	8 1/2"	10"	9"	8"	7 1/2"	7"	6 1/2"		
No	7	7	5	6	7	6	6	6		
h Size	7/8"	7/8"	1"	1 1/8"	1 1/4"	1 1/2"	1 3/4"	1 7/8"		
Cls	7 1/2"	8 1/2"	10"	9"	8"	7 1/2"	7"	6 1/2"		
No	8	11	7	7	8	8	9	10		
h Size	7/8"	1 1/8"	1 1/4"	1 1/2"	1 3/4"	1 7/8"	2"	2 1/8"		
Cls	7 1/2"	8 1/2"	10"	9"	8"	7 1/2"	7"	6 1/2"		
h Size	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"		
Cls	12"	12"	15"	18"	18"	18"	18"	18"		

Class A concrete to be used
 throughout. Proportions 1:2:3



DESIGNED - JTH
 CHECKED - CDB
 DRAWN - AEC
 CHECKED - JMH



PLAN

BILL OF MATERIAL

Bars	No	Size	Length
1	43	1 1/2"	13' 8"
2	0	1 1/2"	12' 0"
3	12	1 1/2"	10' 8"
4	16	1 1/2"	9' 0"
5	16	1 1/2"	7' 8"
6	12	3/4"	29' 0"
7	14	3/4"	28' 0"
8	16	3/4"	27' 8"
9	4	3/4"	12' 0"
10	4	3/4"	14' 0"
11	70	3/4"	16' 0"
12	0	3/4"	13' 0"
13	0	3/4"	8' 8"
14	33	3/4"	10'
15	32	3/4"	5' 0"
16	49	3/4"	5' 9"
17	52	3/4"	5' 4"
18	7	3/4"	2' 8"
19	4	3/4"	4' 9"
20	4	3/4"	4' 9"
21	4	3/4"	4' 9"
22	4	3/4"	4' 9"
23	4	3/4"	4' 9"
24	4	3/4"	4' 9"
25	4	3/4"	4' 9"
26	4	3/4"	4' 9"
27	4	3/4"	4' 9"
28	4	3/4"	4' 9"
29	4	3/4"	4' 9"
30	4	3/4"	4' 9"
31	4	3/4"	4' 9"
32	4	3/4"	4' 9"
33	4	3/4"	4' 9"
34	4	3/4"	4' 9"
35	4	3/4"	4' 9"
36	4	3/4"	4' 9"
37	4	3/4"	4' 9"
38	4	3/4"	4' 9"
39	4	3/4"	4' 9"
40	4	3/4"	4' 9"
41	4	3/4"	4' 9"
42	4	3/4"	4' 9"
43	4	3/4"	4' 9"
44	4	3/4"	4' 9"
45	4	3/4"	4' 9"
46	4	3/4"	4' 9"
47	4	3/4"	4' 9"
48	4	3/4"	4' 9"
49	4	3/4"	4' 9"
50	4	3/4"	4' 9"
51	4	3/4"	4' 9"
52	4	3/4"	4' 9"
53	4	3/4"	4' 9"
54	4	3/4"	4' 9"
55	4	3/4"	4' 9"
56	4	3/4"	4' 9"
57	4	3/4"	4' 9"
58	4	3/4"	4' 9"
59	4	3/4"	4' 9"
60	4	3/4"	4' 9"
61	4	3/4"	4' 9"
62	4	3/4"	4' 9"
63	4	3/4"	4' 9"
64	4	3/4"	4' 9"
65	4	3/4"	4' 9"
66	4	3/4"	4' 9"
67	4	3/4"	4' 9"
68	4	3/4"	4' 9"
69	4	3/4"	4' 9"
70	4	3/4"	4' 9"
71	4	3/4"	4' 9"
72	4	3/4"	4' 9"
73	4	3/4"	4' 9"
74	4	3/4"	4' 9"
75	4	3/4"	4' 9"
76	4	3/4"	4' 9"
77	4	3/4"	4' 9"
78	4	3/4"	4' 9"
79	4	3/4"	4' 9"
80	4	3/4"	4' 9"
81	4	3/4"	4' 9"
82	4	3/4"	4' 9"
83	4	3/4"	4' 9"
84	4	3/4"	4' 9"
85	4	3/4"	4' 9"
86	4	3/4"	4' 9"
87	4	3/4"	4' 9"
88	4	3/4"	4' 9"
89	4	3/4"	4' 9"
90	4	3/4"	4' 9"
91	4	3/4"	4' 9"
92	4	3/4"	4' 9"
93	4	3/4"	4' 9"
94	4	3/4"	4' 9"
95	4	3/4"	4' 9"
96	4	3/4"	4' 9"
97	4	3/4"	4' 9"
98	4	3/4"	4' 9"
99	4	3/4"	4' 9"
100	4	3/4"	4' 9"

STATION 681+80

SECTION-II
 UNION COUNTY
 FED. AID PROJ. NO. 1A

FOR INFORMATION ONLY



USER NAME =	DESIGNED - JTH	REVISED -
PLOT SCALE =	CHECKED - CDB	REVISED -
PLOT DATE = 01/16/15	DRAWN - AEC	REVISED -
	CHECKED - JMH	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

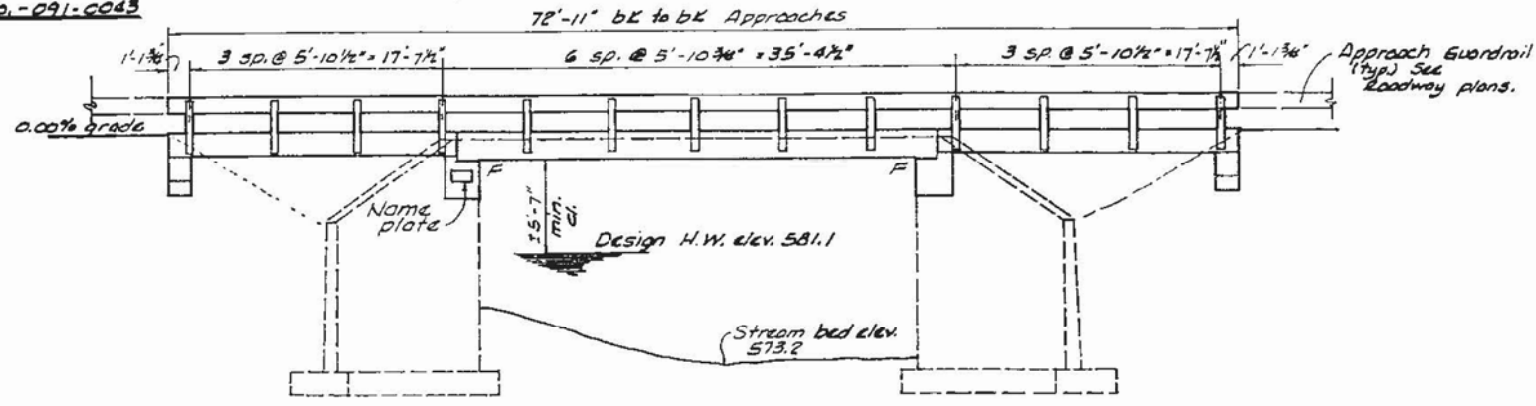
EXISTING STRUCTURE PLANS
 STRUCTURE NO. 091-0043

SCALE: NTS SHEET NO. 1 OF 6 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	29
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				

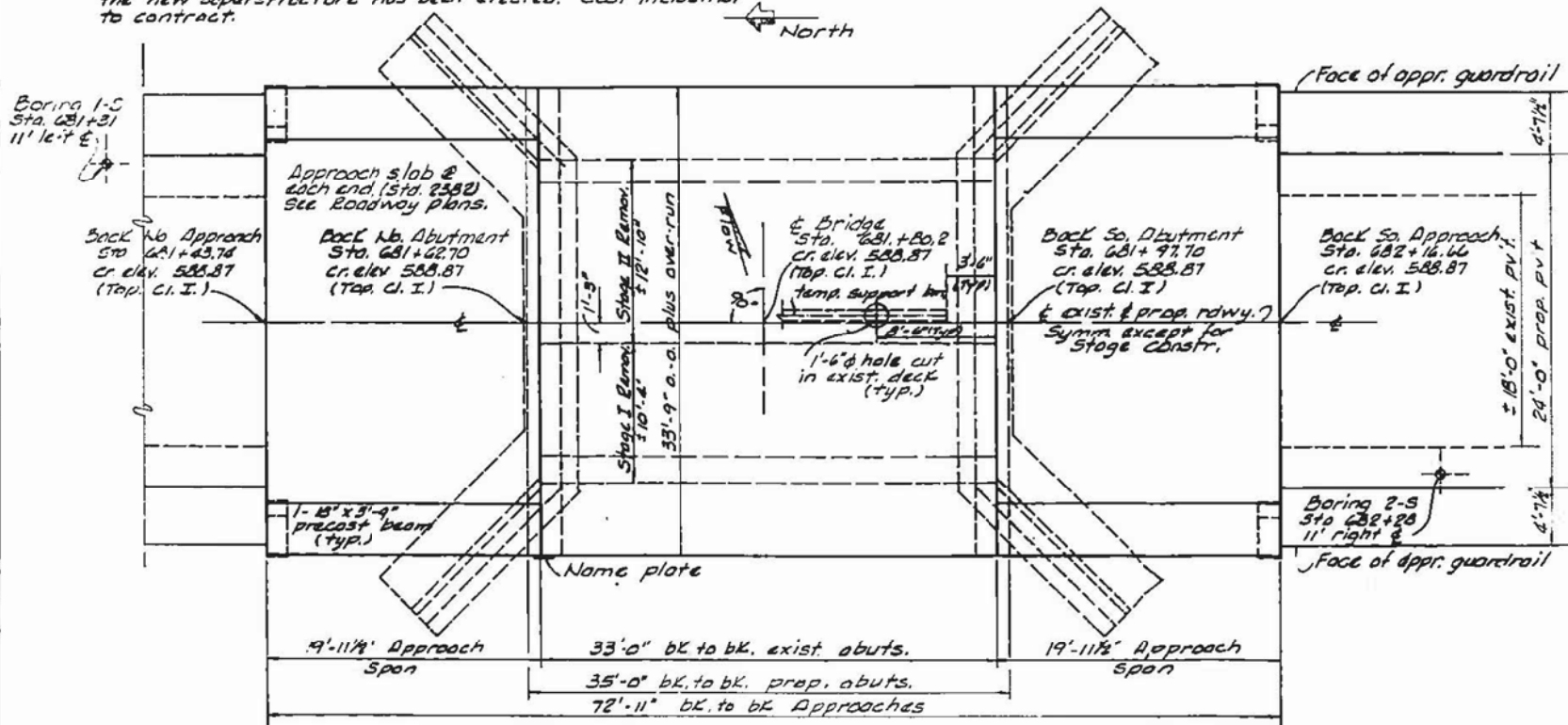
Route	Section	County	Sta. No.
191	11A-BE	Union	17 12
Station	681+80.2		
Sheet	2 of 6		

B.M. "D" cut north end of West headwall of exist. culvert 16' right sta. 676+64, elev. 588.88.
 Existing bridge: One span B.C. thru girder 33' long on closed B.C. abutments. 20' roadway. Built 1921 Super. and portions of substructure to be removed. No salvage.
 Str. No. - 091-0043



ELEVATION

NOTE:
 To prevent damage to the abutments from unrestrained earth pressure, adequate struts shall be placed at the abutments before the existing superstructure is removed and shall remain in place until the new superstructure has been erected. Cost incidental to contract.



PLAN

WATERWAY INFORMATION

Drainage area (1.59 sq. mi.)	1018 Acres
Design discharge (30 yr. flood)	1470 c.f.s.
Existing opening (below 30 yr. H.W.)	213 sq. ft.
Required opening (below 30 yr. H.W.)	213 sq. ft.
Proposed opening (below 30 yr. H.W.)	213 sq. ft.
Created head for design discharge	0.2 ft.
100 yr. discharge	2190 c.f.s.
Created head for 100 yr. discharge	0.6 ft.
100 yr. frequency H.W. elev. 581.9	

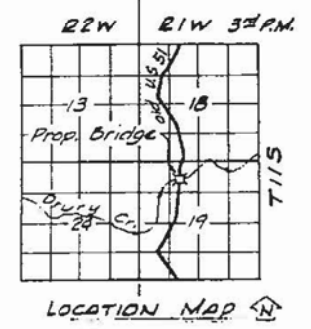
DESIGN STRESSES

FIELD UNITS	PRECAST UNITS
f _c = 3500 psi	f _c = 4500 psi
f _y = 60,000 psi	f _s = 18,000 psi
	f _s = 20,000 psi
	n = 8

Design specs: DASHTO 1977 with 1978 and 1979 interims. 25 lbs/sq. ft. allowance made for future resurfacing.
 Loading HS 20-44

STATION 681+80.2
 REBUILT 19... BY
 STATE OF ILLINOIS
 P&S #11 SEC. 11A-BE
 FA PROJECT BR-S-111(103)
 LOADING HS-20
 STRUCTURE NO. A

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
 [Signature]
 CHIEF ENGINEER
 DIVISION OF BRIDGE & TRAFFIC STRUCTURES



NAME PLATE
 Sta. 213
 1 required
 * Structure No. to be supplied by District.



GENERAL PLAN & ELEVATION

PROJECT BR-S-1911 (103)
 RTE 1911 (Old U.S. 51)
 SECTION 11A-BE over
 Drury Creek
 COUNTY Union
 STATION 681+80.2

TOTAL BILL OF MATERIAL

Item	Unit	Appr. Sp.	Super	Sub	Total
Precast Conc. Bridge Slab	Sq. ft.	299	1111	-	1410
Temporary Support System	L. Sum	-	-	-	1
Temporary Bridge Roll	lin. ft.	-	-	-	70
Waterproof Membrane System	Sq. yd.	-	131	-	131
CLASS X CONCRETE	cu. yd.	1.6	-	17.3	18.9
Steel Railing - Type 5	lin. ft.	-	146	-	146
Reinforcement Bars	lb.	-	-	1490	1490
Removal of EXIST. SUPERSTRUCTURE	ea.	-	1	-	1
Concrete Removal	cu. yd.	-	-	7.6	7.6
Bit. Conc. Surf. Csg. Mix. D, C.I.	Tons	-	10	-	10
Expansion Bolts 3/4 inch	ea.	-	-	34	34
Name Plate	ea.	-	-	-	1



USER NAME =	DESIGNED - JTH	REVISED -
	CHECKED - CDB	REVISED -
PLOT SCALE =	DRAWN - AEC	REVISED -
PLOT DATE = 01/16/15	CHECKED - JMH	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

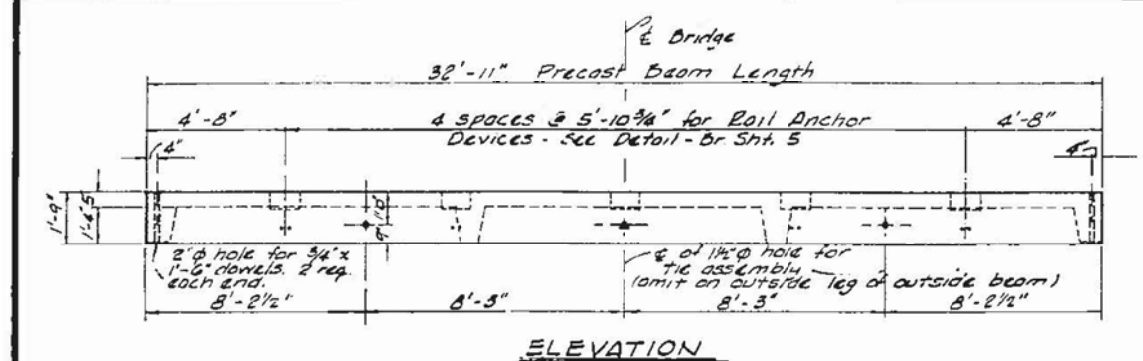
EXISTING STRUCTURE PLANS
 STRUCTURE NO. 091-0043

SCALE: NTS SHEET NO. 2 OF 6 SHEETS

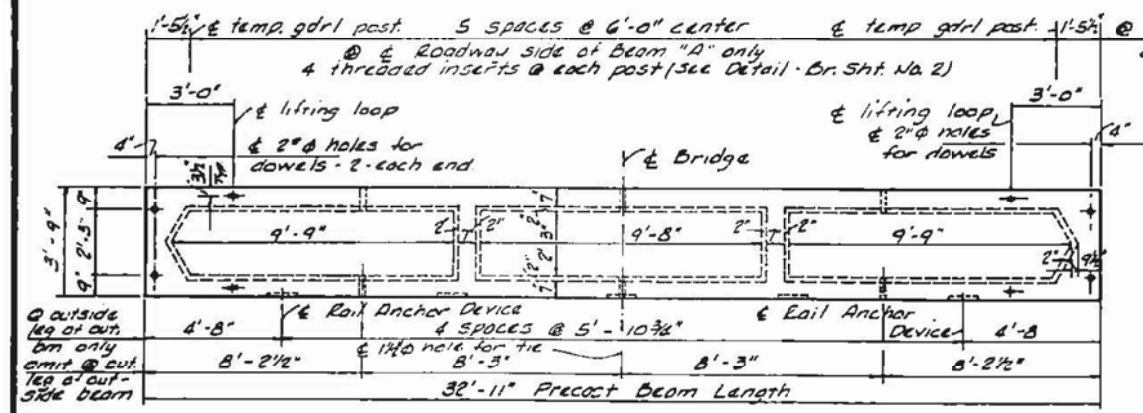
FOR INFORMATION ONLY

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	30
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				

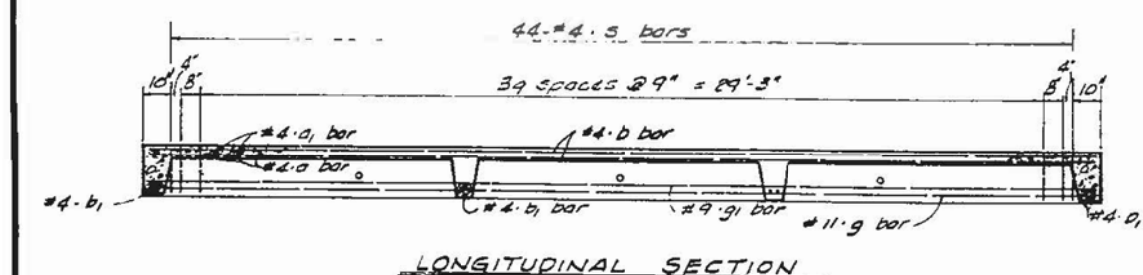
Route	Section	County	Sheet No.
FAS 191	11A-BE	Union	17 of 18
Station	681+80.2		
FEMA Map # 118001 (P&H)			
Bridge Sheet 5 of 6 sheets			



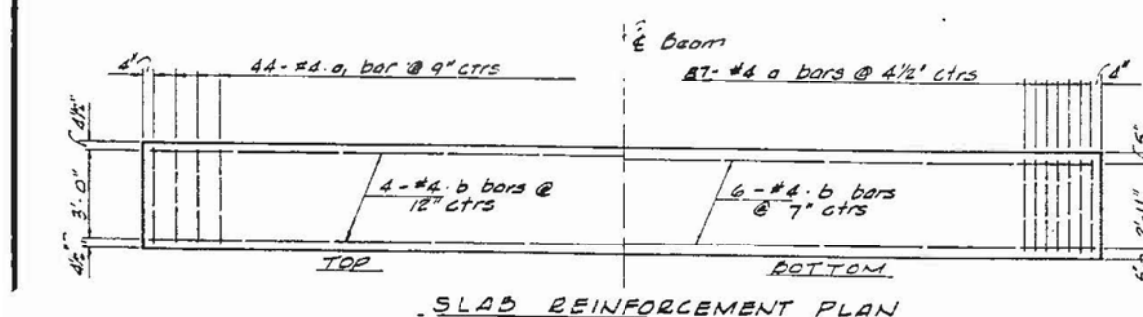
ELEVATION



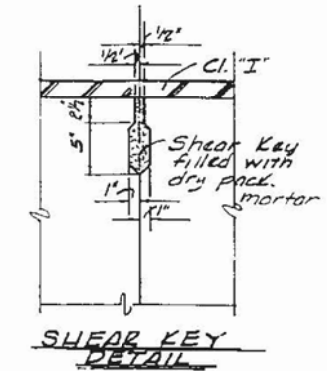
PLAN



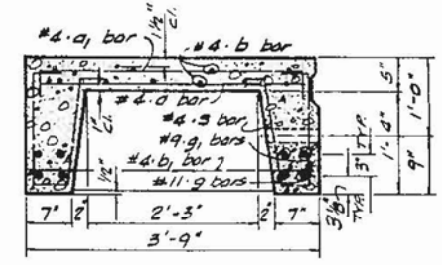
LONGITUDINAL SECTION



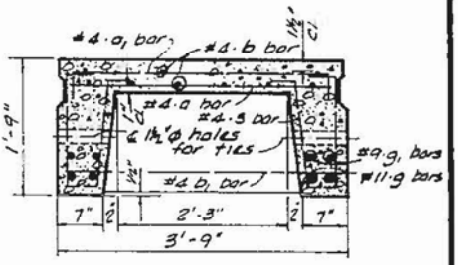
SLAB REINFORCEMENT PLAN



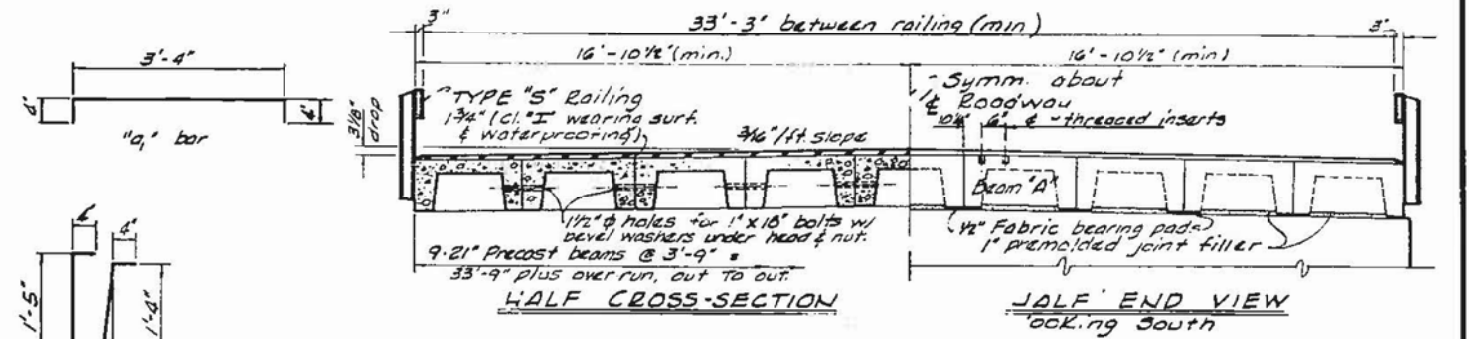
SHEAR KEY DETAIL



SECTION THRU EXTERIOR BEAM

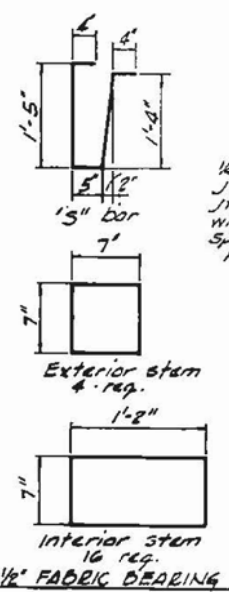


SECTION THRU INTERIOR BEAM

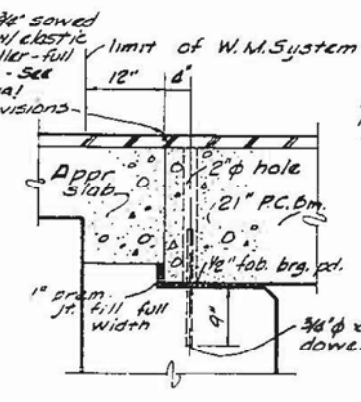


HALF CROSS-SECTION

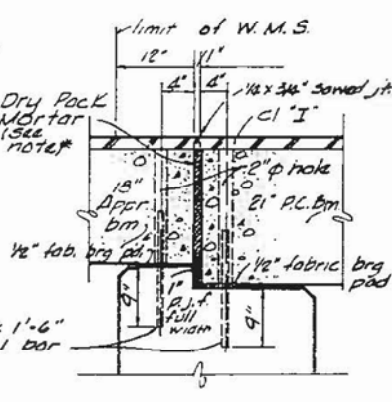
HALF END VIEW looking South



EXTERIOR STEM 4' req. 1'-2" 7" INTERIOR STEM 1/4" FABRIC BEARING PAD



SECTION @ ROADWAY



SECTION @ APPROACH PRECAST BEAM

Bar No.	Size	Length	Shape
a	#4	3'-3"	—
a1	#4	4'-0"	—
b	#4	32'-6"	—
b1	#4	3'-6"	—
g	#11	32'-6"	—
g1	#9	32'-6"	—
s	#4	3'-10"	U

Item	Unit	Quant.
PREC. CONC. Bridge Slab	Sq. Ft.	1111
Waterproofing Mem. Sys.	Sq. Ft.	131
Bit. Conc. Surf. Mix 'D' CI 'I'	ton	10
Removal of Exist Superstructure	ea	1

SUPERSTRUCTURE DETAILS

RTE FAS 191 (Old U.S. 51)
SECTION 11A-BE over
DEUCEY CREEK
COUNTY Union
STATION 681+80.2

NOTE: For Precast beam notes and lifting loop details, see Bridge Sheet No. 4.



USER NAME =	DESIGNED - JTH	REVISED -
PLOT SCALE =	CHECKED - CDB	REVISED -
PLOT DATE = 01/16/15	DRAWN - AEC	REVISED -
	CHECKED - JMH	REVISED -

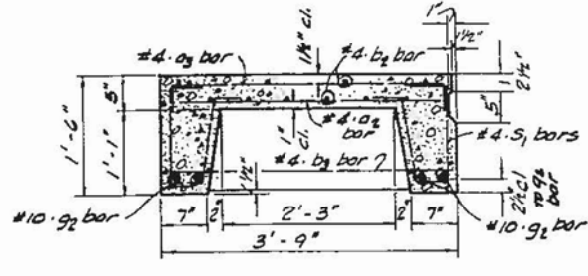
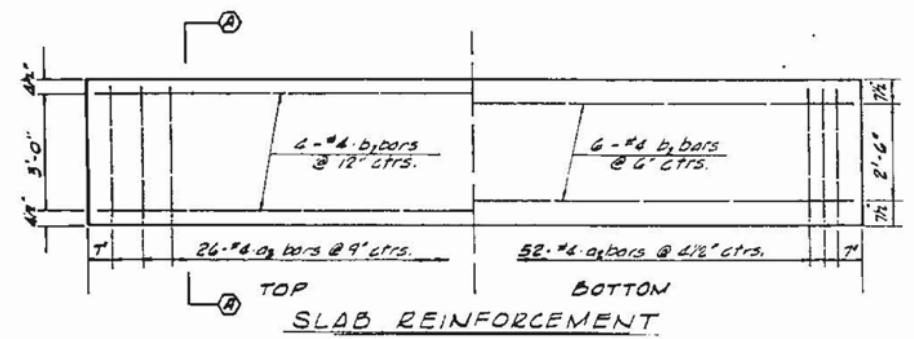
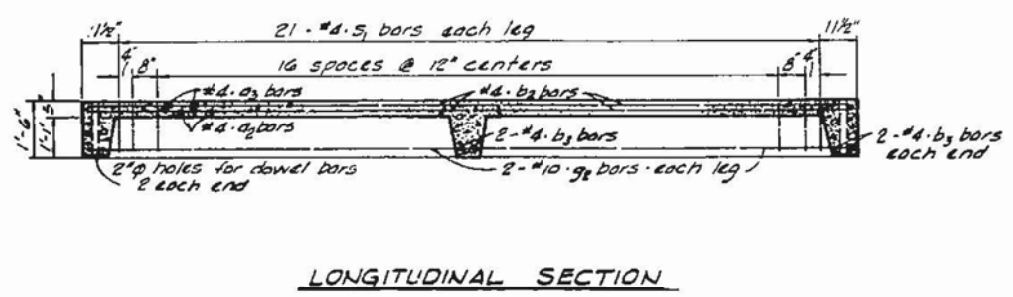
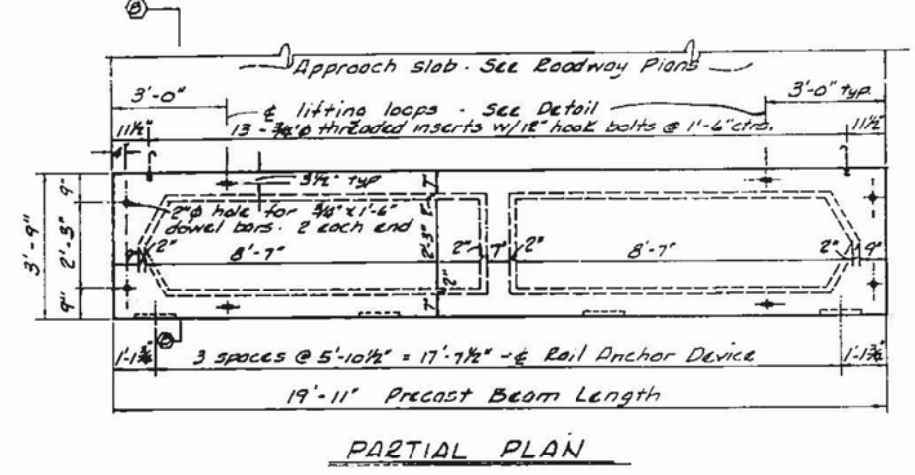
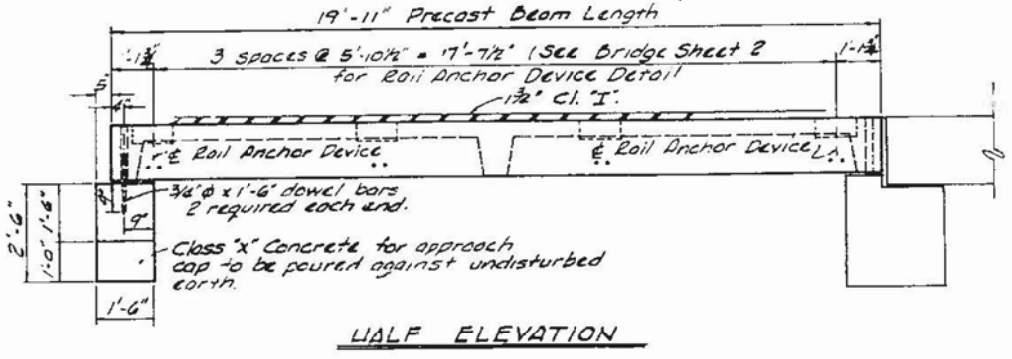
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
STRUCTURE NO. 091-0043

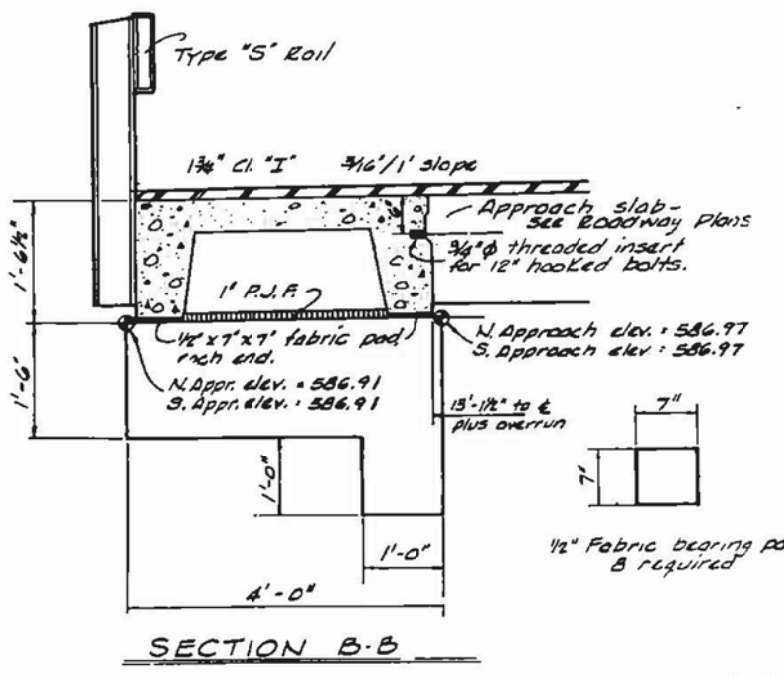
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FOR INFORMATION ONLY

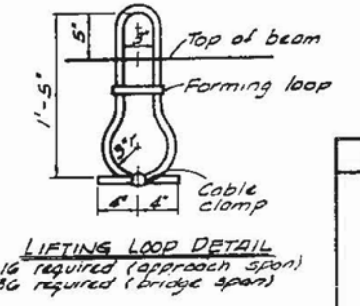
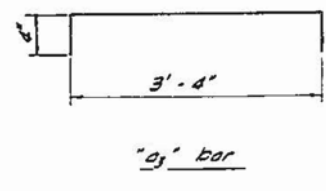
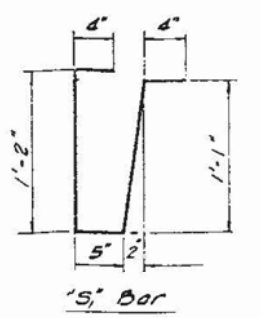
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	31
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				



SECTION A-A



SECTION B-B



LIFTING LOOP DETAIL
 16 required (approach spans)
 36 required (bridge spans)

- GENERAL NOTES - Superstructure & Approach Spans
- Lifting loops for precast units shall be 1/2" dia, 6x25 class wire rope with fiber core, and shall have a min. ultimate tensile strength of 21,000 lbs. Loops shall be burned off after each beam has been erected.
 - The cost for reinforcement and accessories cast into the precast units, the bearing pads, the P.J.F., the furnishing, the drilling for, placing & grouting anchor dowels shall be included in the contract unit price for "PRECAST CONCRETE BRIDGE SLAB".
 - The 12" hooked bolts shall be included in the contract unit price for "PRECAST CONCRETE BRIDGE SLAB".
 - Longitudinal shear keys and 1" transverse joint at approach span precast beams shall be packed with a very dry mix of 2:1 sand and P.C. mortar.
 - After beams have been erected, holes for the dowel anchor shall be drilled into the substructure and the anchor dowels grouted in place.

BAR LIST - ONE PRECAST BEAM

Bar	NO.	SIZE	Length	SHAPE
a2	52	#4	3'-3"	—
a3	26	#4	4'-0"	—
b2	10	#4	19'-6"	—
b3	6	#4	3'-6"	—
g2	4	#10	19'-6"	—
s	42	#4	3'-4"	U

BILL OF MATERIALS - APPROACH SPANS

Item	unit	Quantity
Precast Concrete Bridge Slab	Sq. ft.	299
Class "X" Concrete	cu. yd.	1.6

APPROACH SPAN DETAILS

RTE FAS 1911 (Old U.S. 51)
 SECTION 11A-B2 over
 DREWY CREEK
 COUNTY Union
 STATION 681+80.2

MOSS, JOHNSON, SANDOVAL & ASSOC. LTD.



USER NAME =	DESIGNED - JTH	REVISED -
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PLOT DATE = 01/16/15	DRAWN - AEC	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

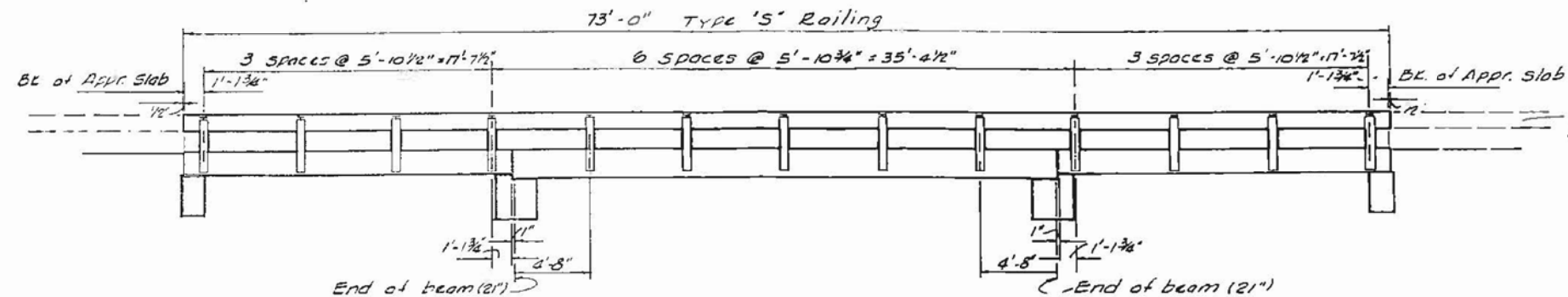
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 STRUCTURE NO. 091-0043

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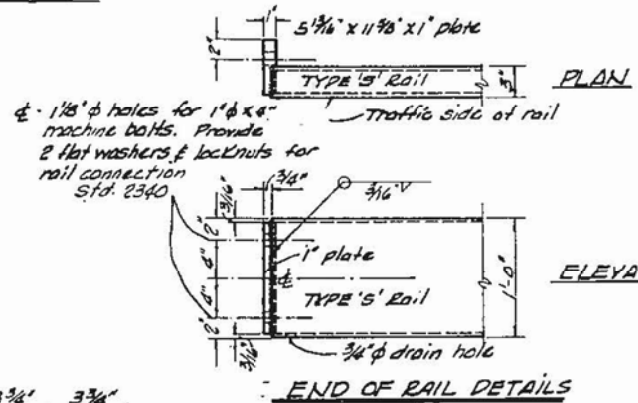
FOR INFORMATION ONLY

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	32
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				

Route	Section	County	Sta.	Sheet
FAS 1911	11A-02	Union	17	16
Station	681+80.2			
Project No.	11185-1-1001			
Bridge Sheet 5 of 6 sheets				



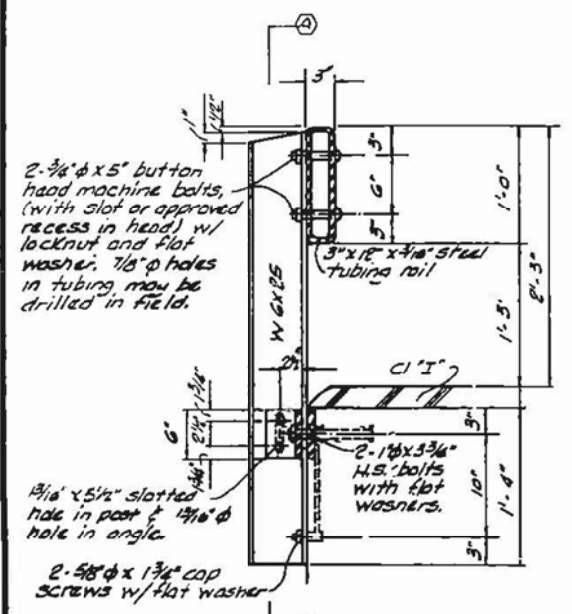
ELEVATION



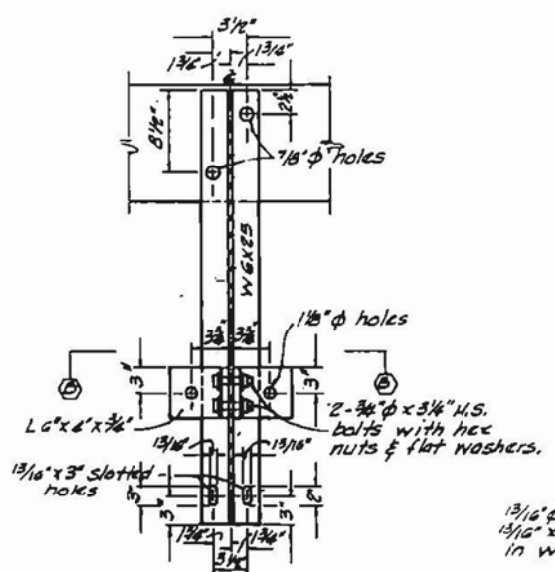
END OF RAIL DETAILS

RAILING NOTES:

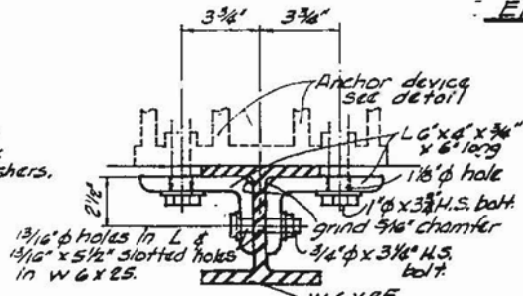
1. Hollow structural steel shall conform to the requirements of ASTM designation A-500 6r, B, or A-501 Structural Steel Tubing. All other steel shapes and plates shall conform to the requirements of AASHTO M-183, except posts & splices shall conform to AASHTO M-223, Grade 50.
2. Bolts, nuts, and cap screws shall conform to the requirements of ASTM A-307, except for high-strength bolts, nuts and washers noted, which shall conform to AASHTO M-164.
3. All bolts, nuts, cap screws, washers and lock washer shall be galvanized in accordance with AASHTO M-232.
4. All posts, railing, rail splices, anchor devices & angles shall be galvanized after shop fabrication in accordance with AASHTO M-111 and ASTM A-385. Galvanized railing shall not be painted.
5. Railing shall be in accordance with Sec. 508 of the Std. Specs, except as noted, and shall be paid for at the contract unit price per linear foot of "STEEL RAILING, TYPE 'S'".
6. All field drilled holes shall be coated with an approved zinc rich paint before erection.
7. The 3/4" high strength bolts used to connect the 6"x4"x3/8" angles to the posts shall be tightened in accordance with Art. 507, or (g)(3) of the Std. Specs. The 1" high strength bolts connecting the angles to the concrete shall be tightened to a snug fit, and given an additional 1/8 turn. The 5/8" cap screws in bottom of posts shall be tightened to a snug fit only.



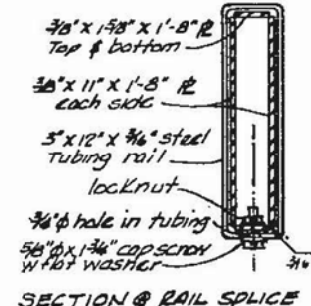
SECTION @ RAIL POST



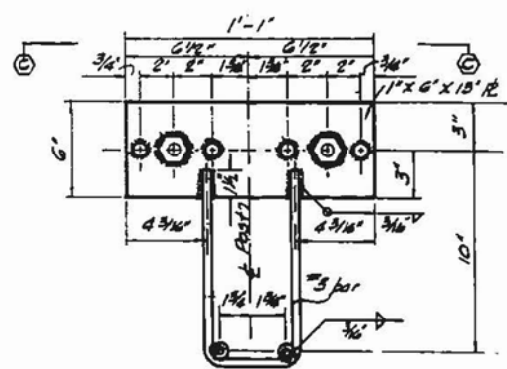
SECTION A-A



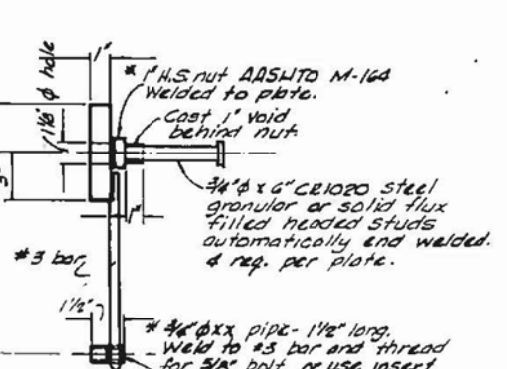
SECTION B-B



SECTION @ RAIL SPLICE

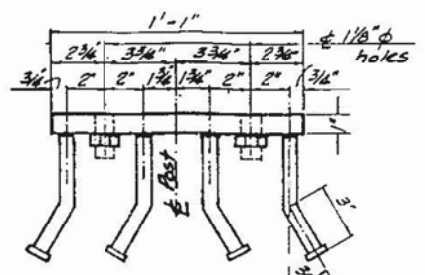


REAR VIEW

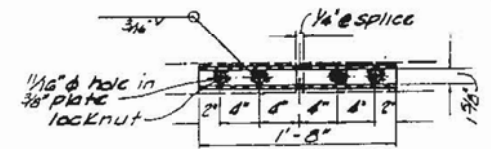


SIDE VIEW

ANCHOR DEVICE DETAIL
* threaded areas shall be plugged or blocked during casting of beam



SECTION C-C



PLAN - BOTTOM SPLICE PLATE

8. The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Sec. 714.02, Type 'B' or place 1/8" fabric bearing pad between post and concrete.

BILL OF MATERIAL		
Item	Unit	Quantity
Steel Railing - Type 'S'	lin. ft	146'0"

RAILING DETAILS			
RTE FAS 1911 (OK U.S. 51)			
SECTION 11A-02 over			
DZUR, CREEK			
COUNTY Union			
STATION 681+80.2			



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PLOT SCALE =	CHECKED - CDB	REVISED -
PLOT DATE = 01/16/15	DRAWN - AEC	REVISED -
	CHECKED - JMH	REVISED -

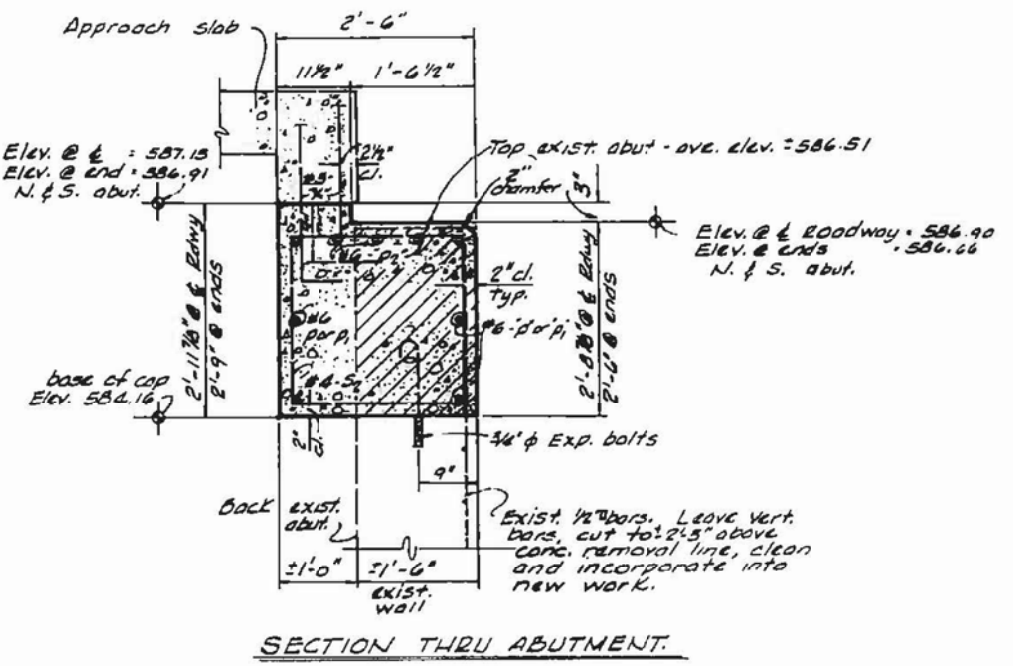
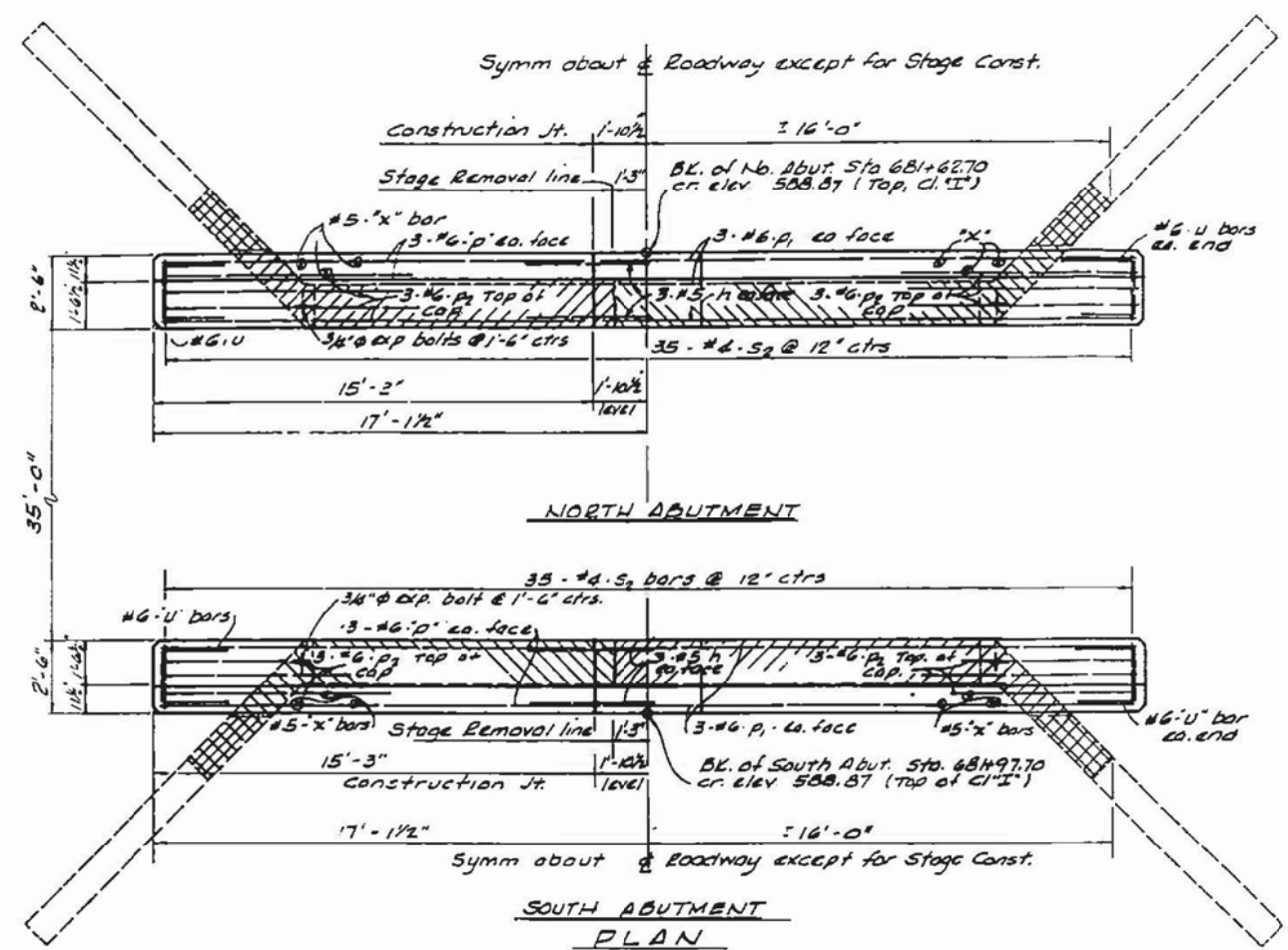
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS
STRUCTURE NO. 091-0043

SCALE: NTS SHEET NO. 5 OF 6 SHEETS

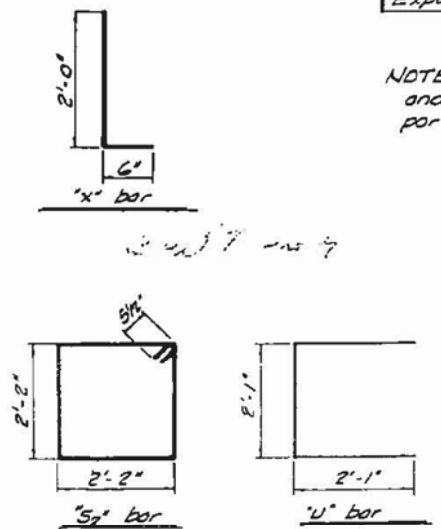
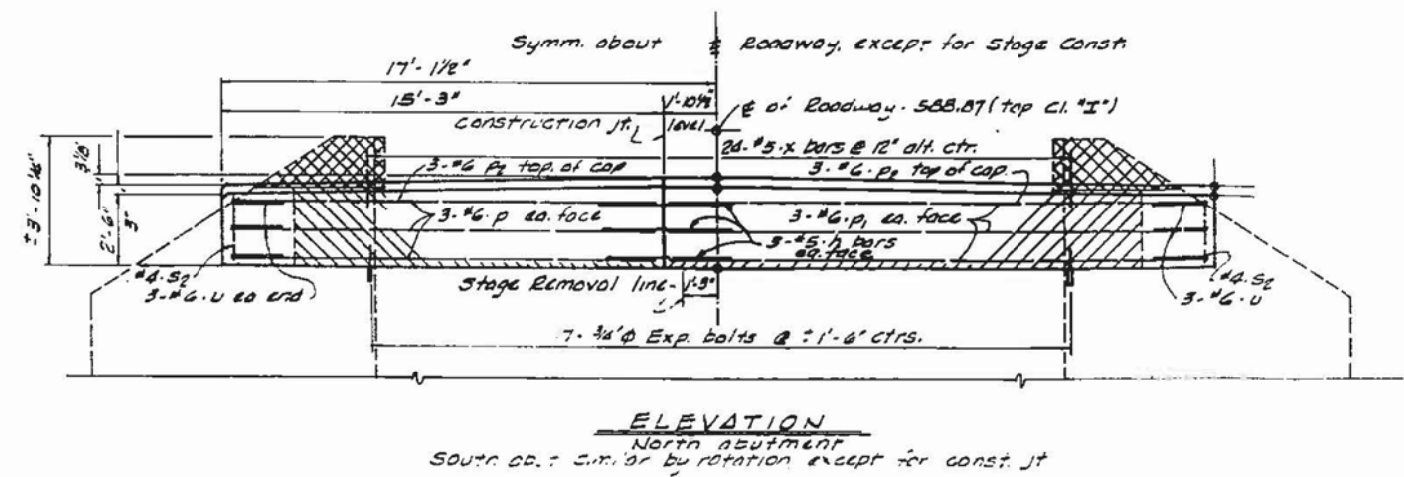
FOR INFORMATION ONLY

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	33
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				



BILL OF MATERIAL - TWO ABUTMENTS

Bar	No.	SIZE	Length	Shape	
h	12	#5	4'-0"	J	
p	12	#6	15'-0"	—	
p1	12	#6	18'-9"	—	
p2	12	#6	8'-0"	—	
S2	70	#4	9'-7"	—	
u	12	#6	6'-5"	—	
x	48	#3	2'-6"	L	
Class "X" Concrete				cu. yds.	17.3
Reinforcement bars				lbs	1490
Concrete Removal				cu. yds.	7.6
Expansion bolts - 3/4" φ				ea.	54



NOTE: Remove hatched portions of abutments and wings to elev. 584.17. Remove cross-hatched portions of wings to elev. 586.8.

Stage I const. Stage II const.

"h" bar

"h" bars shall conform to the requirements of AASHTO M-31 or M-53, Grade 40. These bars to be lapped with "p" bars during Stage I const.; straightened and lapped with "p" bars during Stage II construction.

SUBSTRUCTURE DETAILS

RTE FAS 1911 (O&V U.S. 91)
SECTION 11A-BR over
DEWY CREEK
COUNTY Union
STATION 681+80.8

MOSS, JOHNSON, SANDOVAL & ASSOC. LTD.



USER NAME =	DESIGNED - JTH	REVISED -
PLOT SCALE =	CHECKED - CDB	REVISED -
PLOT DATE = 01/16/15	DRAWN - AEC	REVISED -
	CHECKED - JMH	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

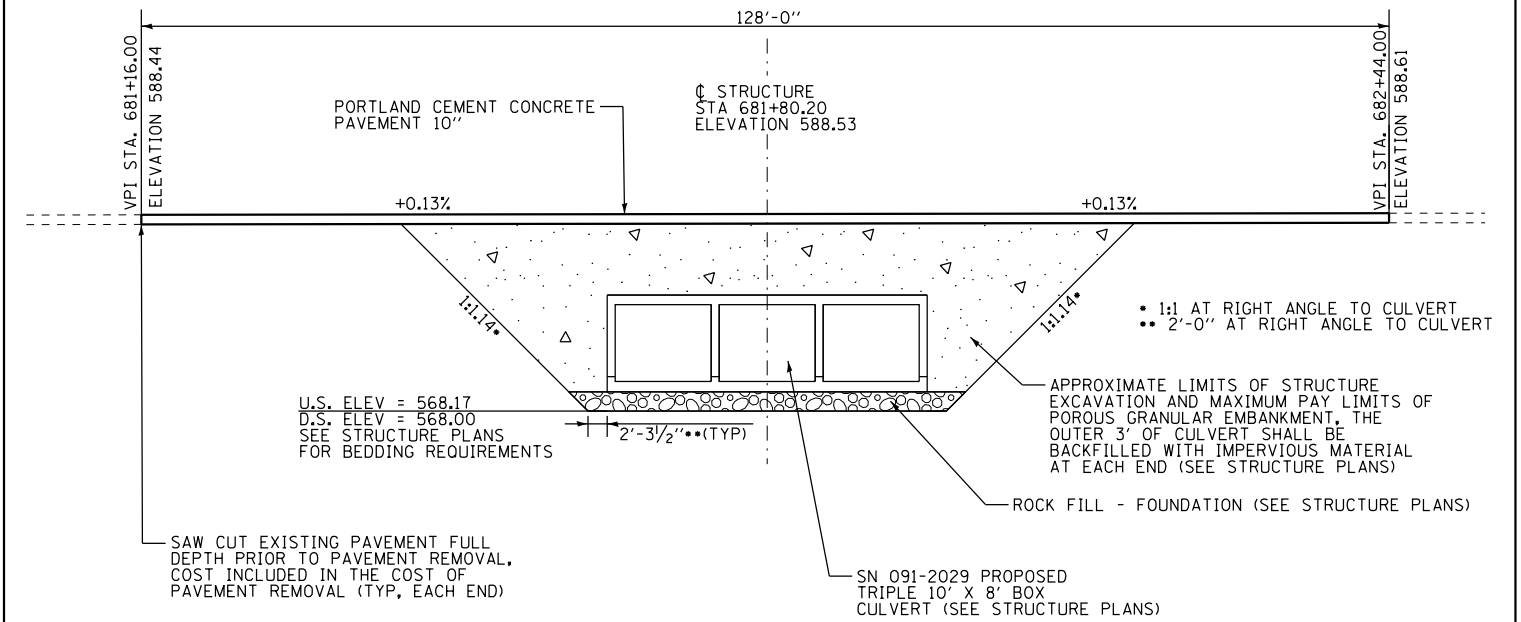
EXISTING STRUCTURE PLANS
STRUCTURE NO. 091-0043

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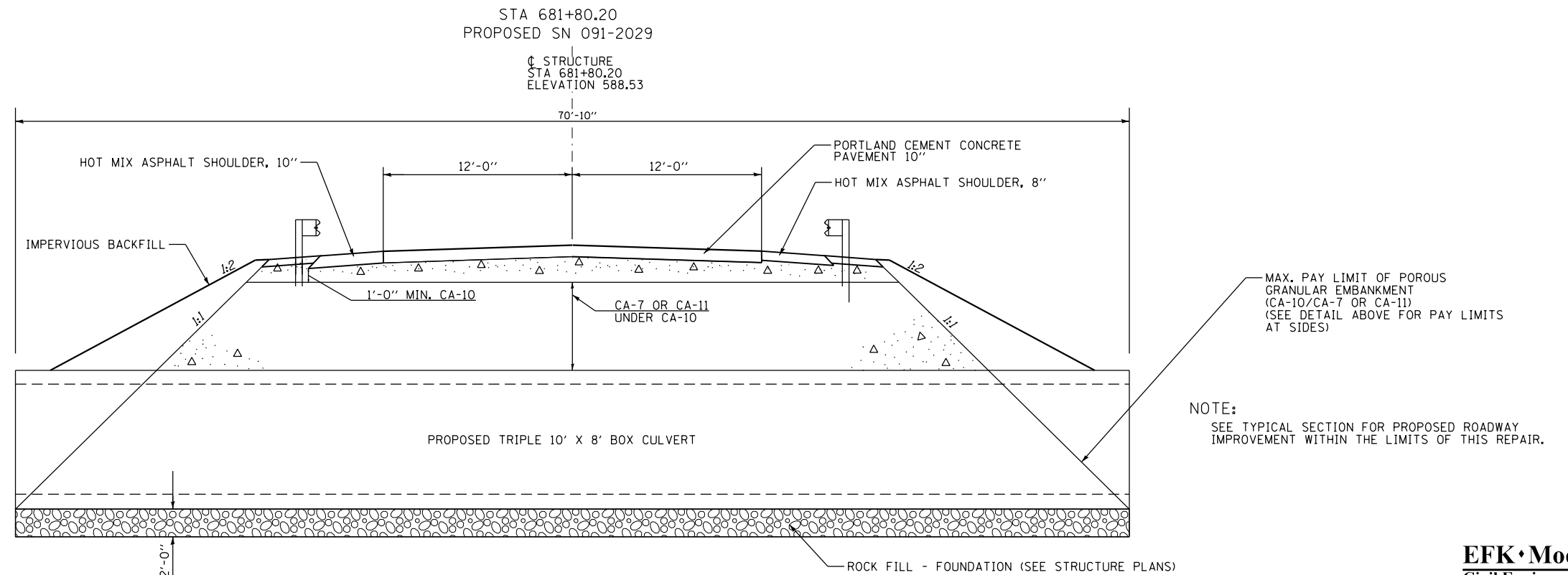
FOR INFORMATION ONLY

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	34
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				

**POROUS GRANULAR EMBANKMENT SECTION AT
STRUCTURE REPLACEMENT STA 681 + 80.20**



POROUS GRANULAR EMBANKMENT TYPICAL



EFK Moen, LLC
Civil Engineering Design

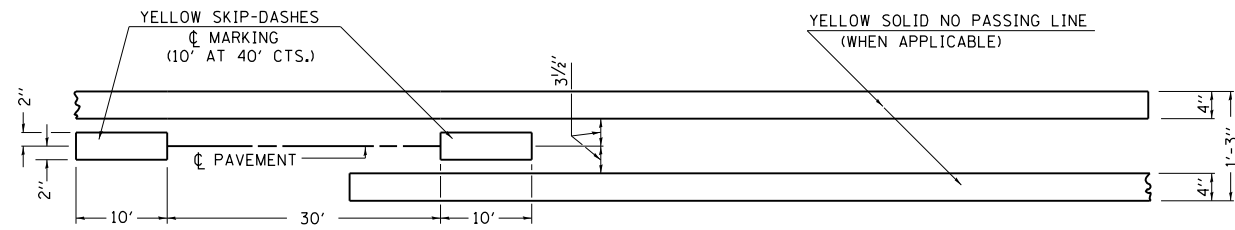
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETAILS			
SCALE: N.A.	SHEET 1	OF 3	SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	35
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING DETAILS



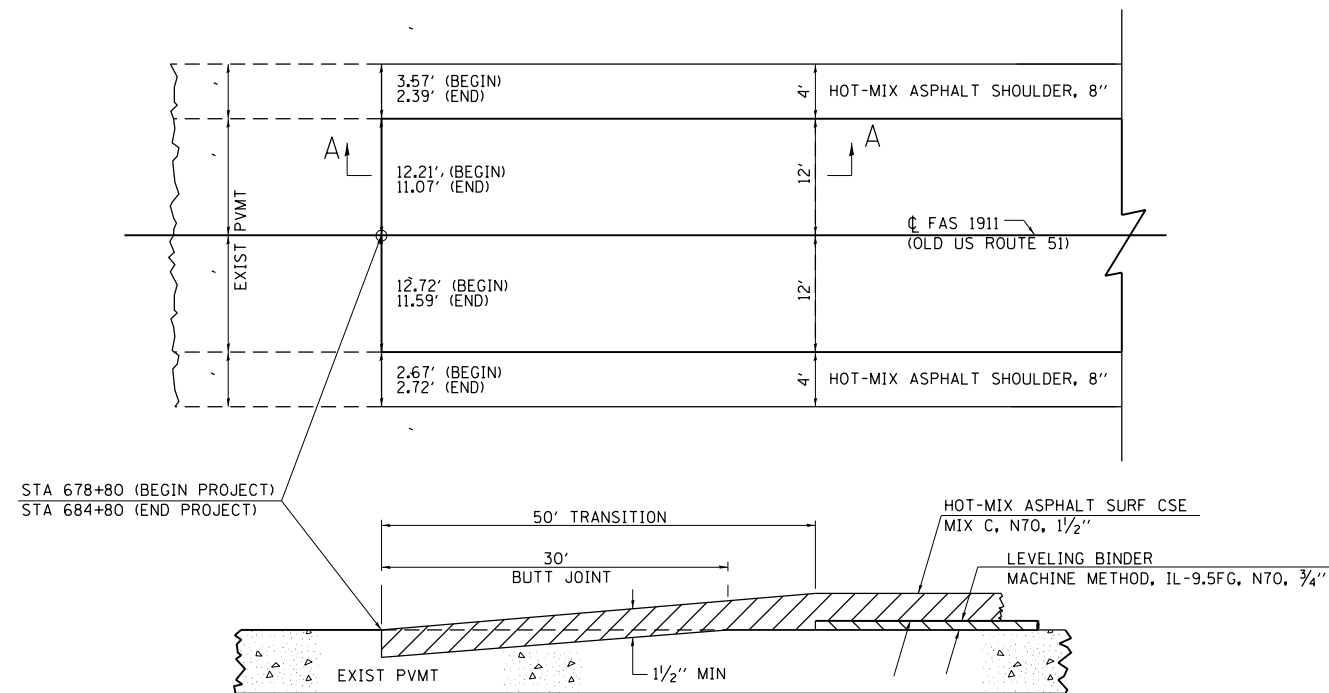
TYPICAL SPACING

PAINT PAVEMENT MARKING-LINE 4"			
STA. - STA.	SOLID EDGE-LINE WHITE	SKIP-DASH CENTERLINE YELLOW	SOLID NO PASSING LINE YELLOW
	FOOT		
678+59.50 - 685+23.48 (LT)	664'		
677+99.50 - 685+65.74 (CL)			1532'
678+04.52 - 685+07.50 (RT)	703'		

REVISIONS
 REDRAWN 2-15-89
 REVISED 8-19-94
 REVISED 3-26-08
 REVISED

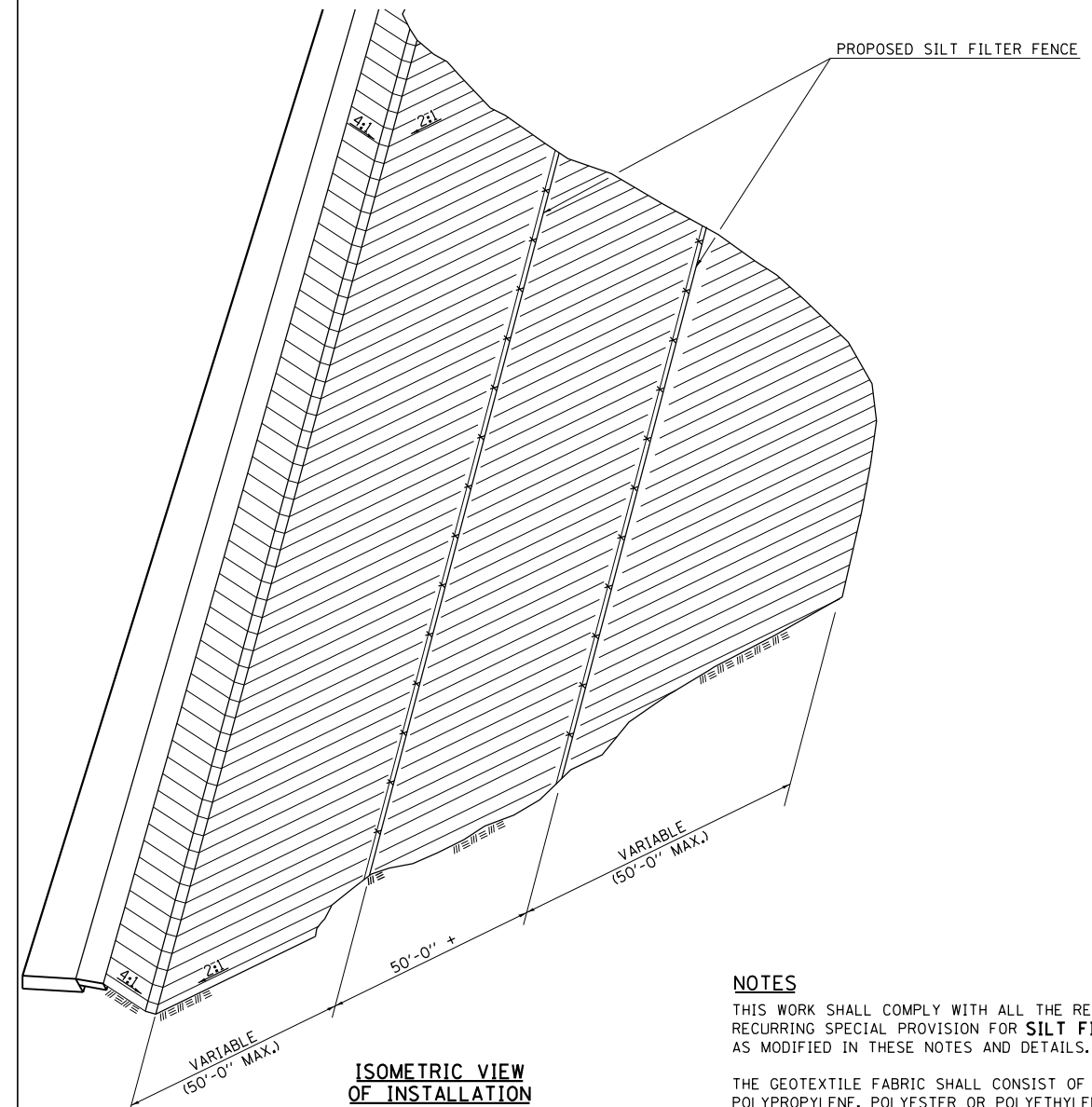
STD. 9-31

BUTT JOINT

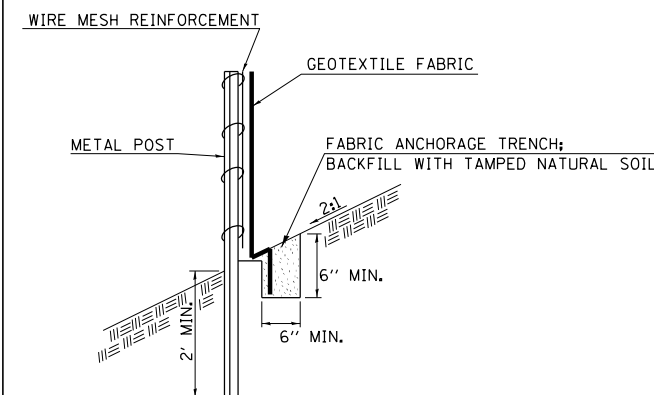


SECTION A-A

DETAIL OF SILT FILTER FENCE



ISOMETRIC VIEW OF INSTALLATION



ELEVATION VIEW

NOTES

THIS WORK SHALL COMPLY WITH ALL THE REQUIREMENTS OF THE RECURRING SPECIAL PROVISION FOR **SILT FILTER FENCE**, EXCEPT AS MODIFIED IN THESE NOTES AND DETAILS.

THE GEOTEXTILE FABRIC SHALL CONSIST OF WOVEN FILAMENTS OF POLYPROPYLENE, POLYESTER OR POLYETHYLENE. NEEDLE PUNCHED, HEAT-BONDED OR RESIN BONDED FABRIC WILL NOT BE PERMITTED.

THE WIRE MESH REINFORCEMENT SHALL BE A MINIMUM OF 36" IN HEIGHT, HAVE A MINIMUM WIRE SIZE OF .14 GAGE AND A MAXIMUM WIRE SPACING OF SIX INCHES. WOVEN WIRE FENCING MAY BE USED PROVIDED IT MEETS THESE REQUIREMENTS.

THE WIRE MESH REINFORCEMENT SHALL BE ATTACHED TO THE STEEL POST WITH TIE WIRES. THE GEOTEXTILE FABRIC SHALL BE ATTACHED TO THE WIRE MESH REINFORCEMENT WITH HOG RINGS. THE STEEL POSTS SHALL BE A MINIMUM OF 6' LONG AND SHALL BE PLACED ON 10' CENTERS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR **PERIMETER EROSION BARRIER**, AS MEASURED IN PLACE. THE UNIT PRICE SHALL INCLUDE THE COST OF ALL MATERIAL, EQUIPMENT AND LABOR TO CONSTRUCT THE FENCE AS DESCRIBED.

FILE NAME =	USER NAME = jd	DESIGNED -	REVISED -
Y:\10057.14 Drury Creek\Design\Final\Plotsheets\036-037-D978214- sht-details2.dgn		DRAWN - JRD	REVISED -
		CHECKED - SLD	REVISED -
#MODELNAME#	PLOT DATE = 1/16/2015	DATE - 1/15/15	REVISED -

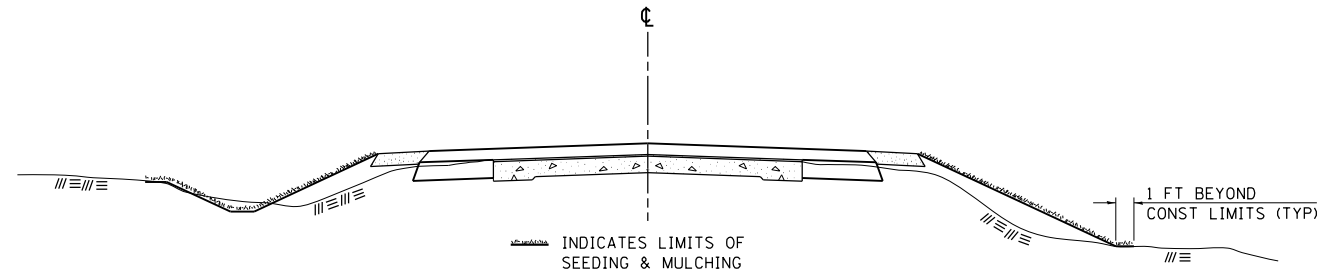
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DETAILS

SCALE: N.A. SHEET 2 OF 3 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	36
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDED AREAS.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

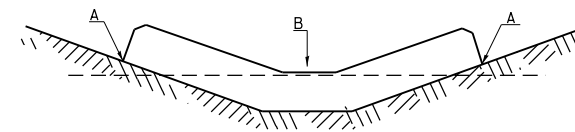
SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08

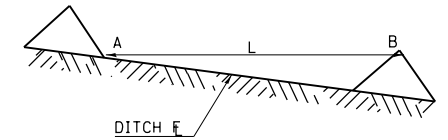
STD. 9-12

TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY DITCH CHECK IN DRAINAGE WAY



SPACING BETWEEN TEMPORARY DITCH CHECKS

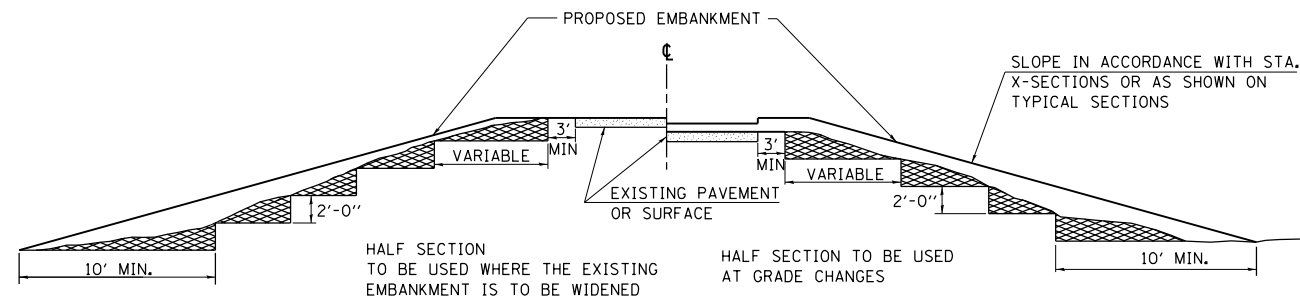


REVISIONS

DRAWN	9-01-99
REVISED	10-3-01
REVISED	5-8-08
REVISED	05-04-10

STD. 9-108

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



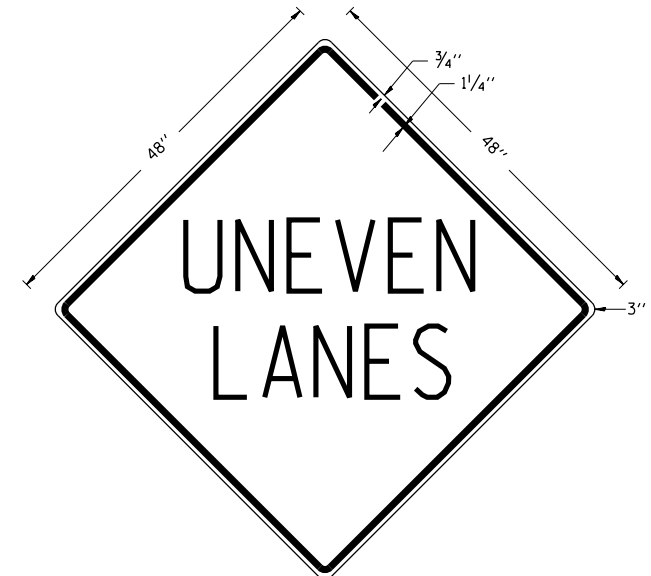
MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
CHECKED	6-3-99
REVISED	5-7-08

STD. 9-16

UNEVEN LANES SIGN

W8-11 (48" x 48")



COLORS:
LEGEND AND BORDER - BLACK NON-REFLECTORIZED
BACKGROUND - ORANGE REFLECTORIZED

NOTE: PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED OR BEFORE RESURFACING OPERATIONS BEGIN, THE CONTRACTOR SHALL HAVE ERECTED "UNEVEN PAVEMENT" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "UNEVEN PAVEMENT" SIGNS UNTIL THE RESURFACING OPERATIONS ARE COMPLETED.

IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

REVISIONS

DRAWN	2-15-89
REVISED	4-6-93
REVISED	7-23-04
REVISED	5-8-08

STD. 9-41

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		CHECKED - SLD	REVISED -
		DATE - 1/15/15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

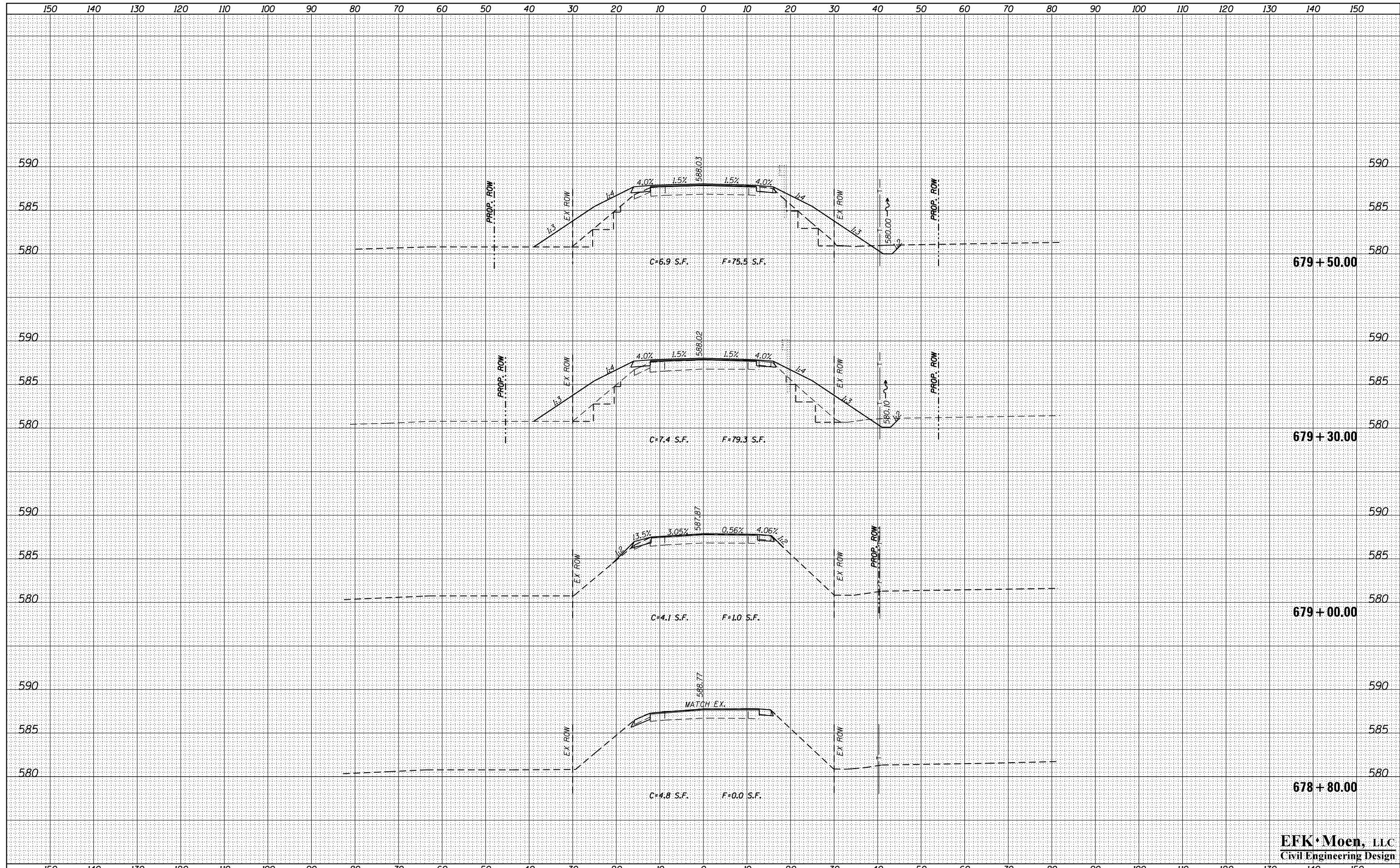
DETAILS

SCALE: N.A. SHEET 3 OF 3 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	37
CONTRACT NO. 78214				
ILLINOIS FED. AID PROJECT				

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

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

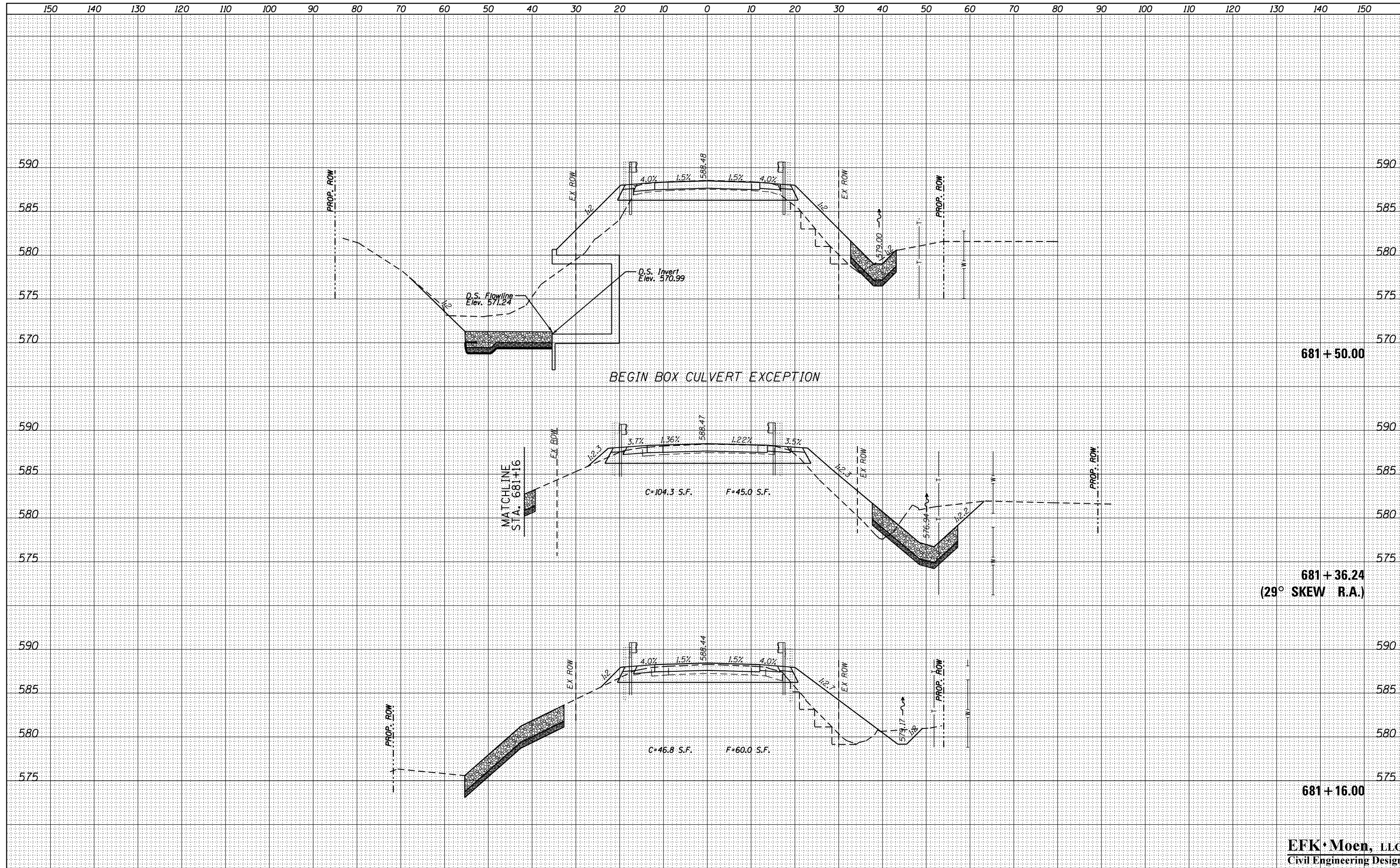


FILE NAME =	USER NAME = jd	DESIGNED - BJB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS SCALE: 10'H : 5'V SHEET 1 OF 7 SHEETS STA. 678+80.00 TO STA. 679+50.00	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Y:\10057.14 Drury Creek\Design\Final\Plotsheets\038-044-0978214-sht-xssht.dgn	PLOT SCALE = 20.0000' / in.	DRAWN - DWB	REVISED -			1911	11B-2	UNION	44	38	
MODELNAME	PLOT DATE = 1/16/2015	CHECKED - SLD	REVISED -			CONTRACT NO. 78214					
		DATE - 1/15/15	REVISED -			ILLINOIS FED. AID PROJECT					

EFK Moen, LLC
Civil Engineering Design

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
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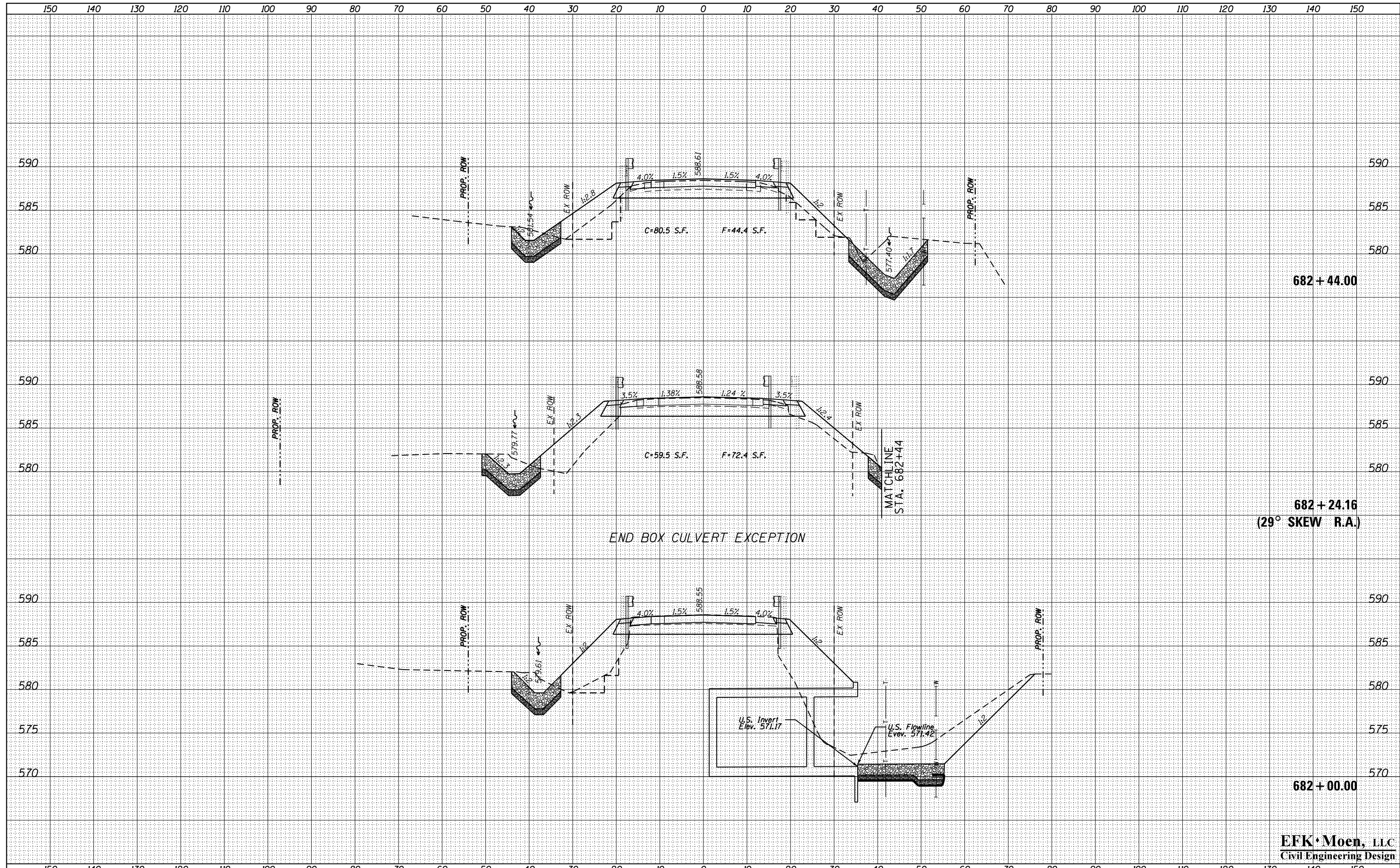


FILE NAME =	USER NAME = jd	DESIGNED - BJB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 20.0000' / in.		CHECKED - SLD	REVISED -		CONTRACT NO. 78214							
MODELNAME		DATE - 1/15/15	REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE: 10'H : 5'V			SHEET 3 OF 7 SHEETS			STA. 681+16.00 TO STA. 681+50.00		

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DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
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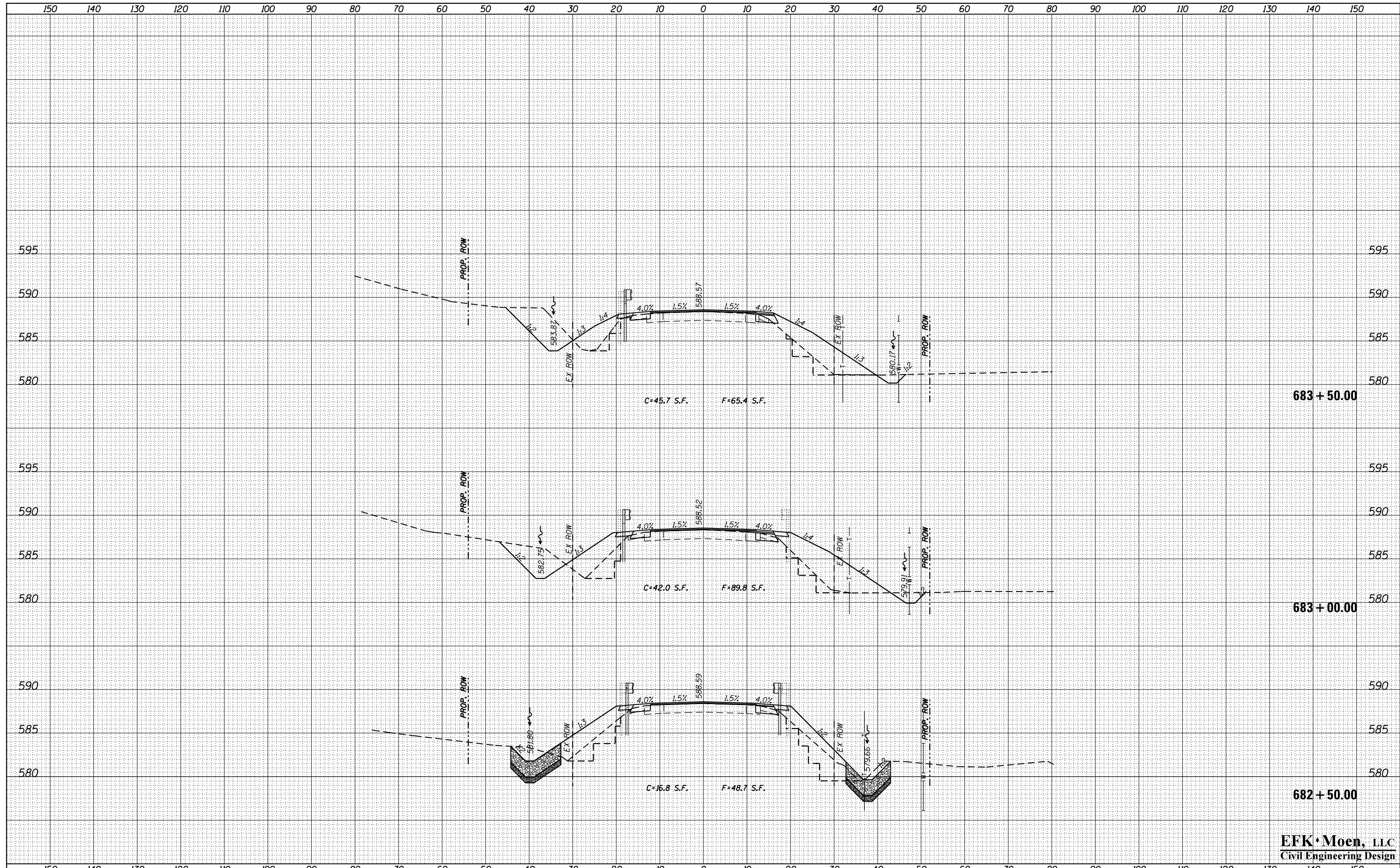


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MODELNAME	PLOT DATE = 1/16/2015	CHECKED - SLD	REVISIED -			CONTRACT NO. 78214					
		DATE - 1/15/15	REVISIED -			ILLINOIS FED. AID PROJECT					

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

DATE	BY
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED
	AREAS CHECKED



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		CHECKED - SLD	REVISED -
		DATE - 1/15/15	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

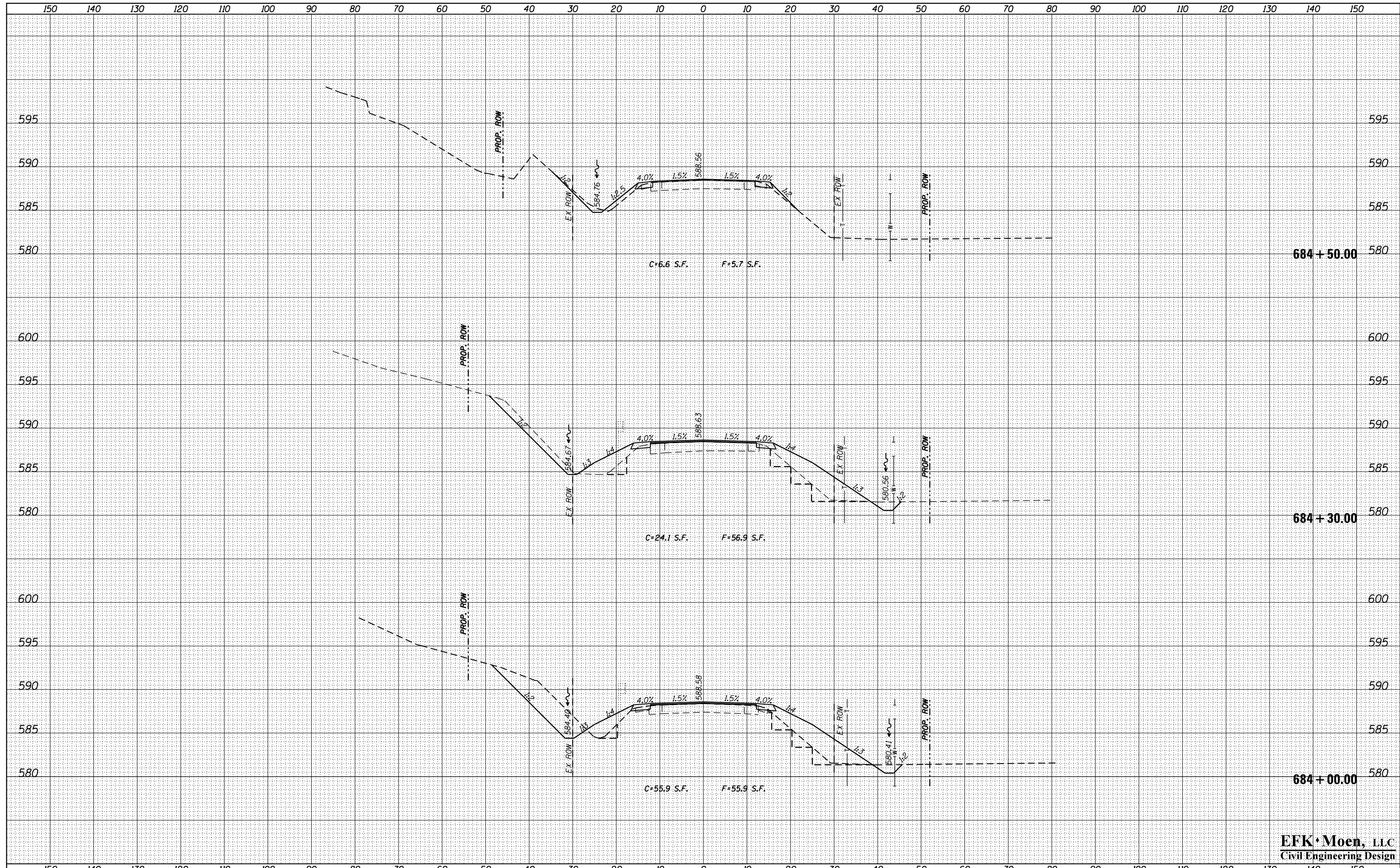
SCALE: 10'H : 5'V SHEET 5 OF 7 SHEETS STA. 682+50.00 TO STA. 683+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1911	11B-2	UNION	44	42
			CONTRACT NO. 78214	
ILLINOIS FED. AID PROJECT				

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DATE	
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SURVEYED	
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TEMPLATE	
NOTE BOOK	
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TEMPLATE	
NOTE BOOK	
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FILE NAME = Y:\10057.14 Drury Creek\DCN\Design\Final\Plotsheets\038-044-0978214-sht-xssht.dgn	USER NAME = jd	DESIGNED - BJB	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
MODELNAME	PLOT SCALE = 20.0000' / in.	CHECKED - SLD	REVISIED -		SCALE: 10'H = 5'V	SHEET 6	OF 7 SHEETS	STA. 684+00.00	TO STA. 684+50.00	1911	11B-2	UNION	44	43
	PLOT DATE = 1/16/2015	DATE - 1/15/15	REVISIED -											

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