

SHEET NO. DESCRIPTION

- ROADWAY PLANS**
1. COVER SHEET
 2. GENERAL NOTES AND STANDARDS
 - 3-7. SUMMARY OF QUANTITIES
 8. TYPICAL SECTIONS
 9. SCHEDULE OF QUANTITIES
 - 10-11. IL RTE 142 PLAN AND PROFILE
 - 12-14. STAGE CONSTRUCTION PLAN AND DETAILS
 15. EROSION AND SEDIMENT CONTROL PLANS
 16. RIGHT OF WAY PLAN
 17. CONCRETE COLLAR DETAIL
 18. BUTT JOINT DETAIL
 19. STEP CONSTRUCTION DETAIL
 20. SEEDING AND MULCHING DETAIL
 21. TEMPORARY DITCH CHECK DETAIL

- STRUCTURE PLANS**
SN 041-2021
22. GENERAL PLAN & ELEVATION
 23. STAGE CONSTRUCTION DETAILS
 - 24-25. BOX CULVERT DETAILS
 26. STEEL RAILING, TYPE 2399
 27. BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 28. TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
 - 29-30. BORING LOGS

- EXISTING STRUCTURE PLANS**
SN 041-2003
31. EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY

- CROSS SECTIONS**
- 32-36. IL RTE 142 CROSS SECTIONS

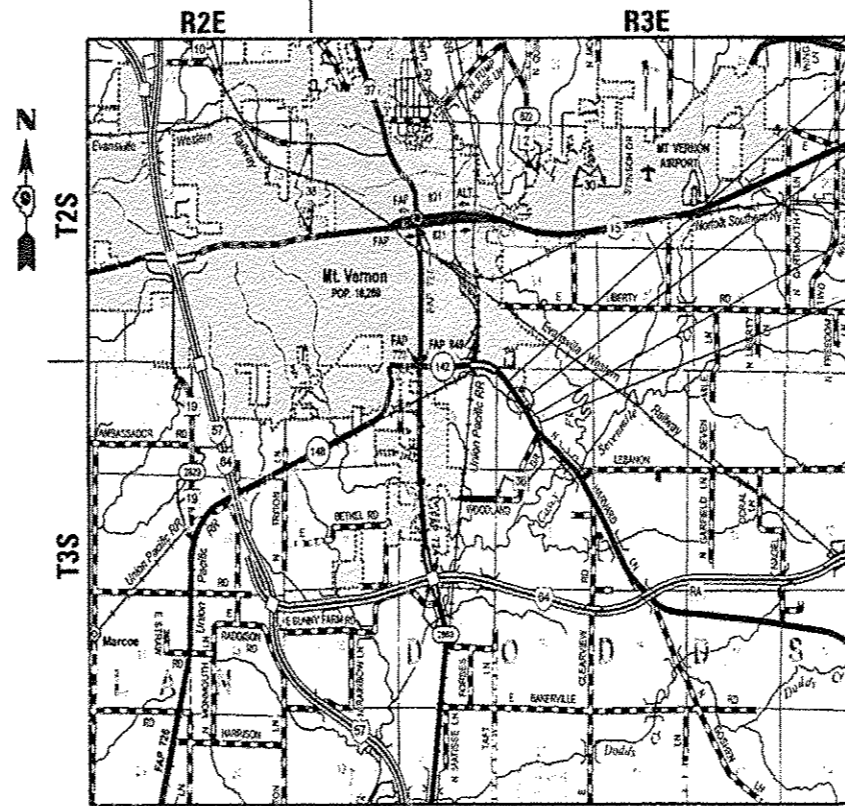
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 849 (IL 142)
SECTION 113B-1
PROJECT: ACF-0849(014)
JEFFERSON COUNTY

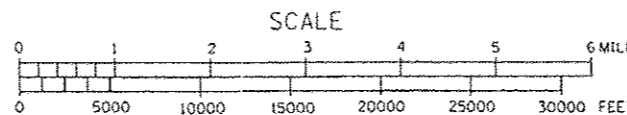
C-99-068-10

BOX CULVERT REPLACEMENT
OVER UNNAMED STREAM



LOCATION MAP

3RD P.M.



113B-1
GROSS LENGTH = 296.29 FT. = 0.056 MI
NET LENGTH = 296.29 FT. = 0.056 MI

- IMPROVEMENTS BEGIN STA 75+82.42
- EXISTING SN 041-2003 STATION 77+32.50 PROPOSED SN 041-2021 TRIPLE BOX CULVERT
- IMPROVEMENTS END STA 78+78.71
- UNNAMED STREAM

DESIGN DESIGNATION:
N.A.

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

DISTRICT 9 NO. (618) 549-2171
PROJECT ENGINEER: DAVID PICHE
PROJECT MANAGER

CONTRACT NO. 78210

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	36	1
		ILLINOIS	CONTRACT NO. 78210	

D-99-066-10



FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL (NON-URBAN)
DESIGN SPEED: 55 mph
POSTED SPEED: 55 mph
ADT: 7929 (2010)
PV: 91.5%
TRUCKS: 8.5%
TOWNSHIP: DODDS

MICHAEL C. VAIL
062-049256
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
Michael C. Vail
SIGNATURE
5/30/2014
DATE

LIC. EXP. DATE : 11-30-15
QUIGG ENGINEERING INC.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED June 24 20 14
Jeffrey L. Keum
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Oct 17 20 14
John D. Baranelli PE
ENGINEER OF DESIGN AND ENVIRONMENT

Oct 17 20 14
Omer Osman PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420601-05	24' (7.2 m) PCC PAVEMENT
420701-02	PAVEMENT FABRIC
482006-03	HMA SHOULDER ADJACENT TO RIGID PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
631032-08	TRAFFIC BARRIER TERMINAL, TYPE 6A
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
666001-01	RIGHT-OF-WAY MARKERS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-13	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-03	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-04	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

- THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- TRIM EDGES OF EXISTING HOT MIX ASPHALT SURFACE FLUSH WITH EXISTING PAVEMENT PRIOR TO CONSTRUCTING NEW BASE COURSE WIDENING. COST TO BE INCLUDED IN BASE COURSE WIDENING 10".
- 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.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- THE THICKNESS OF HMA MIXTURES 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 HMA MIXTURE IS PLACED.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- 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 (112 LBS/SO YD/IN)
ALL AGGREGATE	2.05 TONS/CU YD
BITUMINOUS MATERIALS:	
ON PAVEMENT	0.05 LB/SO FT
INTERMEDIATE LIFTS (FOG COAT)	0.025 LB/SO FT
ON AGGREGATE SURFACE	0.25 LB/SO FT
AGGREGATE (PRIME COAT)	0.0015 TONS/SO YD (3 LB/SO YD)
RIPRAP	1.50 TONS/SO YD
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- ALL DISTURBED AREAS WITHIN THE CONSTRUCTION LIMITS SHALL BE FERTILIZED AND SEEDED. SEEDING SHALL BE CLASS 2A ACCORDING TO THE APPLICABLE ARTICLES OF SECTION 250 OF THE STANDARD SPECIFICATIONS. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION, LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
- TREES SHALL BE PRESERVED THROUGHOUT THIS SECTION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER EXCEPT AS DESCRIBED IN NOTE 13. GENERALLY, TREES OUTSIDE THE CLEAR ZONE, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.
- ALL OBSTRUCTIONS WHICH ARE WITHIN 18' (CLEAR ZONE) OF THE EDGE OF THE ROADWAY AND ARE NOT SHIELDED BY THE PROPOSED GUARDRAIL, SHALL BE REMOVED FROM STATION 75+62 TO 79+00. TYPICAL OBSTRUCTIONS ARE HEADWALLS, FOUNDATIONS, ETC. WHICH PROJECT 4 IN. OR MORE ABOVE THE GROUNDLINE; AND TREES WHICH WILL MATURE TO A DIAMETER OF 4 IN. OR GREATER.
- THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION FOR THE INITIAL OPENING OF THE COMPLETED STRUCTURE TO TWO LANE TRAFFIC, AND ONE ADDITIONAL APPLICATION.
- EXISTING TRAFFIC BARRIER TERMINALS TO BE REMOVED SHALL BE PAID FOR AS GUARDRAIL REMOVAL.
- FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
- ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.
- EARTHWORK COMPACTION SHALL BE TO THE SATISFACTION OF THE ENGINEER.
- IF THE CONTRACTOR ELECTS TO USE P.C.C. BASE COURSE WIDENING, SUCH WIDENING SHALL BE PRIMED ACCORDING TO ARTICLE 406.02, EXCEPT THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WIDENING.
- ON ALL SUPERELEVATED CURVES, THE PROPOSED BASE COURSE WIDENING SHALL BE CONSTRUCTED WITH A SLOPE CONFORMING TO THE RATE OF SUPERELEVATION OF THE EXISTING PAVEMENT.
- 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.

- THE INCREASED PCC PAVEMENT THICKNESS OVER THE PROPOSED CULVERT WILL BE INCLUDED IN THE COST PER UNIT PRICE OF PORTLAND CEMENT CONCRETE PAVEMENT 10".
- CONTRACTION JOINTS SHALL BE PROVIDED AT THE LIMITS OF THE CONCRETE BOX CULVERT. THE JOINTS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE PAVEMENT 10".
- 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.
- IF SO DIRECTED BY THE ENGINEER, DITCHES ADJACENT TO EMBANKMENTS SHALL BE CONSTRUCTED PRIOR TO STARTING THE CONSTRUCTION OF THE EMBANKMENT FILL.
- THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SLOPES SHALL NOT EXCEED 8.0%. THE SHOULDER ON THE OUTSIDE OF SUPERELEVATED CURVES SHALL BE FLATTENED ACCORDINGLY.

COMMITMENTS

- NONE AS OF JUNE 27, 2014. REFER TO COMMITMENT FILE FOR ANY COMMITMENTS AFTER THIS DATE.

PREPARED BY:	<i>Joe Zblaniewicz</i> DISTRICT STUDIES & PLANS ENGINEER
EXAMINED BY:	<i>Hal...</i> DISTRICT LAND ACQUISITION ENGINEER
EXAMINED BY:	<i>Carrie Nelson</i> DISTRICT PROGRAM DEVELOPMENT ENGINEER
EXAMINED BY:	<i>Keith Miles</i> DISTRICT OPERATIONS ENGINEER
EXAMINED BY:	<i>K...</i> DISTRICT PROJECT IMPLEMENTATION ENGINEER
EXAMINED BY:	<i>Douglas J. Jellish</i> DISTRICT CONSTRUCTION ENGINEER
EXAMINED BY:	<i>...</i> DISTRICT MATERIALS ENGINEER

FILE NAME = D:\78210-111-gennote.dgn
 MODEL = 1001.dwg
 PLOT DRIVER = 1001.pps.eplafg

 QUIGG ENGINEERING INC	USER NAME = twalker FILE NAME = D:\78210-111-gennote.dgn PLOT SCALE = 48.0000 1/1 in. PLOT DATE = 5/29/2014	DESIGNED - MCV DRAWN - CMM CHECKED - MTM DATE - 4/25/2014	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES & STANDARDS	SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.	F.A.P. R.T.E. 849 SECTION 113B-1 COUNTY JEFFERSON TOTAL SHEETS 36 SHEET NO. 2	CONTRACT NO. 78210 [ILLINOIS] FED. AID PROJECT
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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY 0004 RURAL	BOX CULVERT 0011 S.N. 041-2021
20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25	
20200100	EARTH EXCAVATION	CU YD	1678	1678	
25000210	SEEDING, CLASS 2A	ACRE	0.5	0.5	
25000350	SEEDING, CLASS 7	ACRE	0.5	0.5	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	65	65	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1	1	
25100115	MULCH, METHOD 2	ACRE	0.5	0.5	
25100630	EROSION CONTROL BLANKET	50 YD	1279	1279	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	50 YD	420	420	
25100900	TURF REINFORCEMENT MAT	50 YD	66	66	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100	
28000305	TEMPORARY DITCH CHECKS	FOOT	20	20	

- SEE SPECIAL PROVISIONS
- △ DENOTES SPECIALTY ITEM

FILE NAME : D:\78210-111-500.dgn
 USER : twalker
 PLOT DRIVER : 1001.PDF.plt



QUIGG ENGINEERING INC

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PLOT DATE : 5/29/2014	DATE - 4/25/2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 1 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	36	3
			CONTRACT NO. 78210	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY 0004 RURAL	80% FEDERAL 20% STATE BOX CULVERT 0011 S.N. 041-2021
28000400	PERIMETER EROSION BARRIER	FOOT	768	768	
28000500	INLET AND PIPE PROTECTION	EACH	1	1	
28100101	STONE RIPRAP, CLASS A1	SO YD	200		200
28100109	STONE RIPRAP, CLASS A5	SO YD	178		178
28200200	FILTER FABRIC	SO YD	178		178
35650500	BASE COURSE WIDENING 10"	SO YD	285	285	
40600647	LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N90	TON	65	65	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	194	194	
40603345	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90	TON	123	123	
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SO YD	289	289	
42001200	PAVEMENT FABRIC	SO YD	289	289	
44000100	PAVEMENT REMOVAL	SO YD	235	235	
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SO YD	89	89	

- SEE SPECIAL PROVISIONS
- △ DENOTES SPECIALTY ITEM

FILE NAME * D:\78210-111-500.dgn
 MODEL * 041.dwg
 PLOT DRIVER * 1001.Plotter



USER NAME * walker	DESIGNED - MCV	REVISED -
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PLOT DATE * 5/29/2014	DATE - 4/25/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S.	SHEET NO. 2 OF 5 SHEETS	STA.	TO STA.	F.A.P. RATE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				849	113B-1	JEFFERSON	36	4
				CONTRACT NO. 78210				
ILLINOIS FED. AID PROJECT								

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY	80% FEDERAL 20% STATE BOX CULVERT
				0004 RURAL	0011 S.N. 041-2021
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SO YD	204	204	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1	
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	133		133
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	36660		36660
50800515	BAR SPLICERS	EACH	223		223
50900200	STEEL RAILING, TYPE 2399	FOOT	82		82
51500100	NAME PLATES	EACH	1		1
54003000	CONCRETE BOX CULVERTS	CU YD	226.8		226.8
• 542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	50	50	
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1	
• 54248510	CONCRETE COLLAR	CU YD	0.9	0.9	
△ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	75	75	
△ 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4	

- SEE SPECIAL PROVISIONS
- △ DENOTES SPECIALTY ITEM

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QUIGG ENGINEERING INC

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PLOT DATE = 5/29/2014	DATE - 4/25/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
84B	113B-1	JEFFERSON	36	5
CONTRACT NO. 78210				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE	80% FEDERAL 20% STATE
				ROADWAY 000+ RURAL	BOX CULVERT 0011 S.N. 041-2021
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	468	468	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	4	4	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9	
67100100	MOBILIZATION	L SUM	1	0.5	0.5
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	6	6	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6	6	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	224	224	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1304	1304	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	498	498	

- SEE SPECIAL PROVISIONS
- Δ DENOTES SPECIALTY ITEM

FILE NAME = D:\78210-ht-500.dgn
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 PLOT DRIVER = PLOT_PDF.plt



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PLOT SCALE = 40.0000' / 1" in.	CHECKED - MTM	REVISED -
PLOT DATE = 5/29/2014	DATE - 4/25/2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S.	SHEET NO. 4 OF 5 SHEETS	STA. TO STA.	F.A.P. RTE. 849	SECTION 1138-1	COUNTY JEFFERSON	TOTAL SHEETS 36	SHEET NO. 6
						ILLINOIS FED. AID PROJECT	
						CONTRACT NO. 78210	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FEDERAL 20% STATE ROADWAY 0004 RURAL	80% FEDERAL 20% STATE BOX CULVERT 0011 S.N. 041-2021
70400100	TEMPORARY CONCRETE BARRIER	FOOT	362.5	362.5	
• 70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	312.5	312.5	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
Δ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1304	1304	
Δ 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	12	12	
Δ 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	9	9	
Δ 78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8	
Δ 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300100	PAVEMENT MARKING REMOVAL	50 FT	257	257	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	9	9	
Δ 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1	1	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	519	519	
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	340		340
15 Δ Z0026407	TEMPORARY SHEET PILING	50 FT	1830		1830

- SEE SPECIAL PROVISIONS
- Δ DENOTES SPECIALTY ITEM

FILE NAME : 0978210-shs-500.dgn
 USER : walker
 PLOT DRIVER : 1001-plot.plt
 PLOT DATE : 5/29/2014



USER NAME : walker	DESIGNED - MCV	REVISED -
FILE NAME : 0978210-shs-500.dgn	DRAWN - CMM	REVISED -
PLOT SCALE : 10.0000' / 1"	CHECKED - MTM	REVISED -
PLOT DATE : 5/29/2014	DATE - 4/25/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: N.T.S.		SHEET NO. 5 OF 5 SHEETS	STA.	TO STA.
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SUMMARY OF QUANTITIES

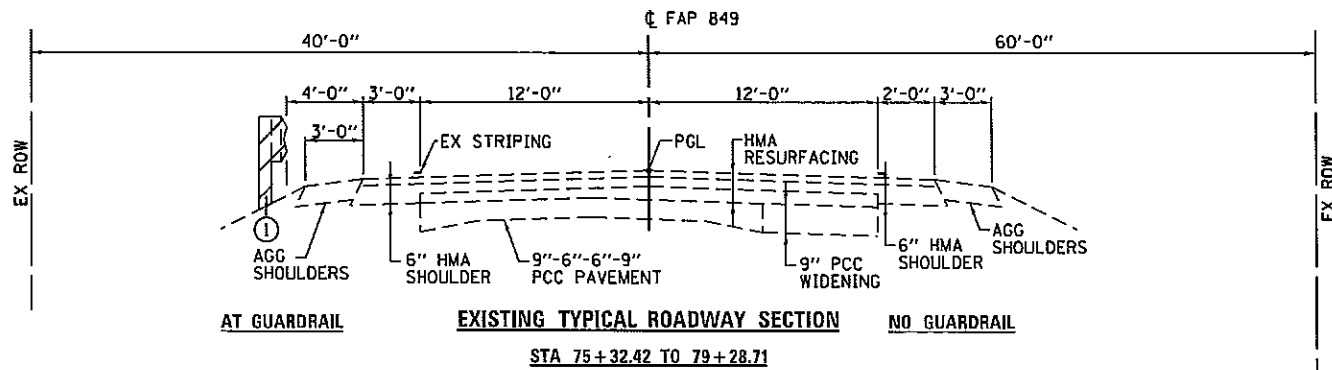
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	36	7
ILLINOIS FED. AID PROJECT				

CONTRACT NO. 78210

HMA MIXTURES REQUIREMENTS

LOCATION(S):	HMA SURFACE COURSE	HMA LEVELING BINDER COURSE	BASE COURSE WIDENING/ HMA SHOULDERS (LOWER LIFTS)	HMA SHOULDERS (TOP LIFT)
MIXTURE USE(S):	HMA SURFACE CSE, MIX D, N90	LEVELING BINDER (MM), IL-9.5FG, N90	HMA BINDER CSE, N90, IL-19.0FG	HMA SURFACE CSE, MIX C, N90
AC/PG GRADE:	PG64-22	PG64-22	PG64-22	PG64-22
ABR % (MAX):	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
RAP % (MAX):	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS (GRADATION MIXTURE)	4.0%, 90 GYRATION DESIGN	4.0%, 90 GYRATION DESIGN	4.0%, 90 GYRATION DESIGN	4.0%, 90 GYRATION DESIGN
MIXTURE COMPOSITION:	IL-9.5	IL-9.5 FINE GRADE	IL-19.0 FINE GRADE	IL-9.5
FRICITION AGGREGATE:	D SURFACE	NONE	NONE	NONE
QUALITY MANAGEMENT PROGRAM:	OCCA	OCCA	OCCA	OCCA

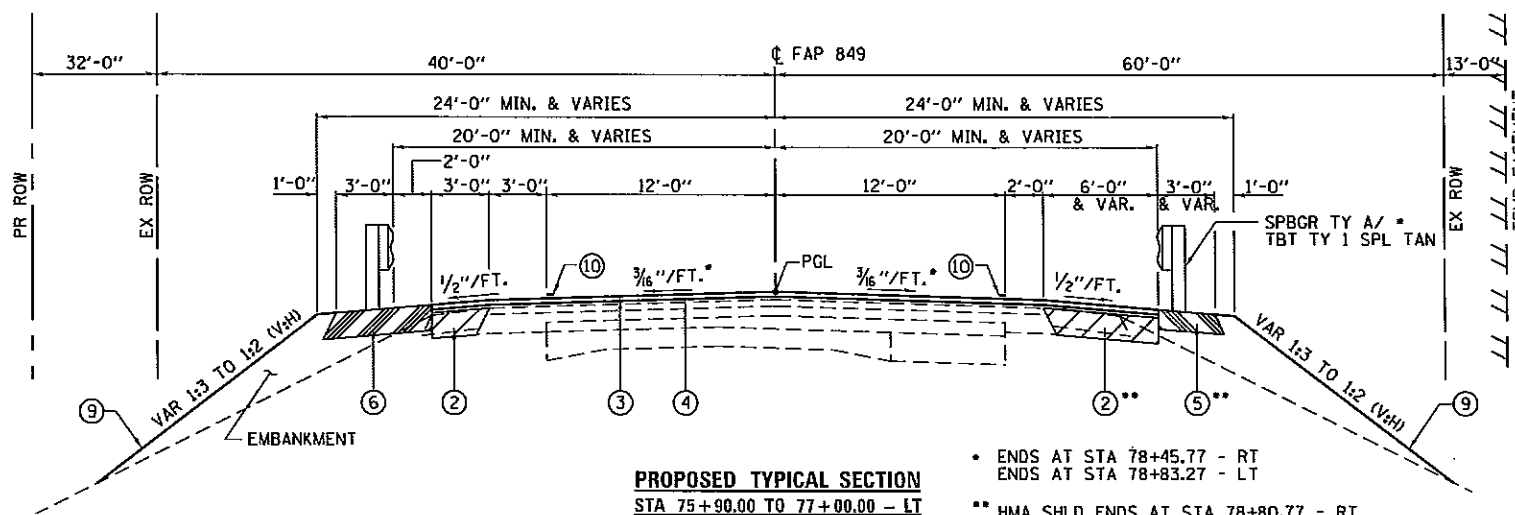
*** IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED AS DETERMINED BY THE ENGINEER.



EXISTING GUARDRAIL LOCATIONS

STA 76+57± TO STA 79+47± - LT
STA 76+36± TO STA 78+12± - RT

NOTE:
ATTAIN SUPER ELEVATION STA 77+65.00
TO STA 79+28.71-MATCH EXISTING SLOPES



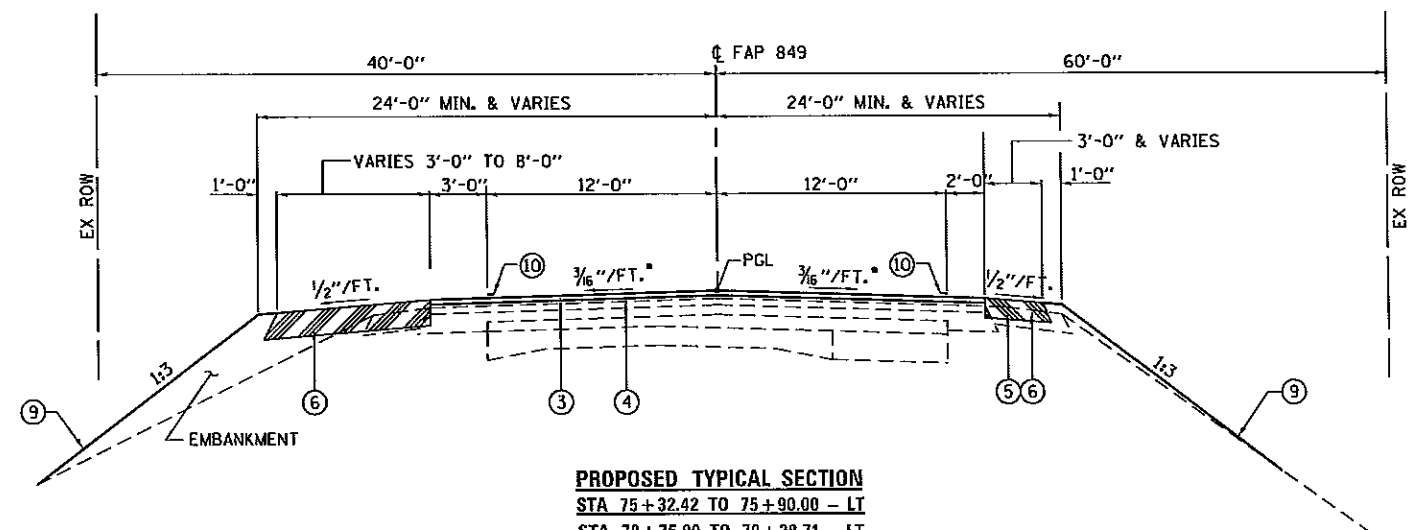
PROPOSED TYPICAL SECTION

STA 75+90.00 TO 77+00.00 - LT
STA 77+65.00 TO 78+75.00 - LT
STA 75+52.87 TO 77+00.00 - RT
STA 77+65.00 TO 79+10.00 - RT

• ENDS AT STA 78+45.77 - RT
ENDS AT STA 78+83.27 - LT
** HMA SHLD ENDS AT STA 78+80.77 - RT

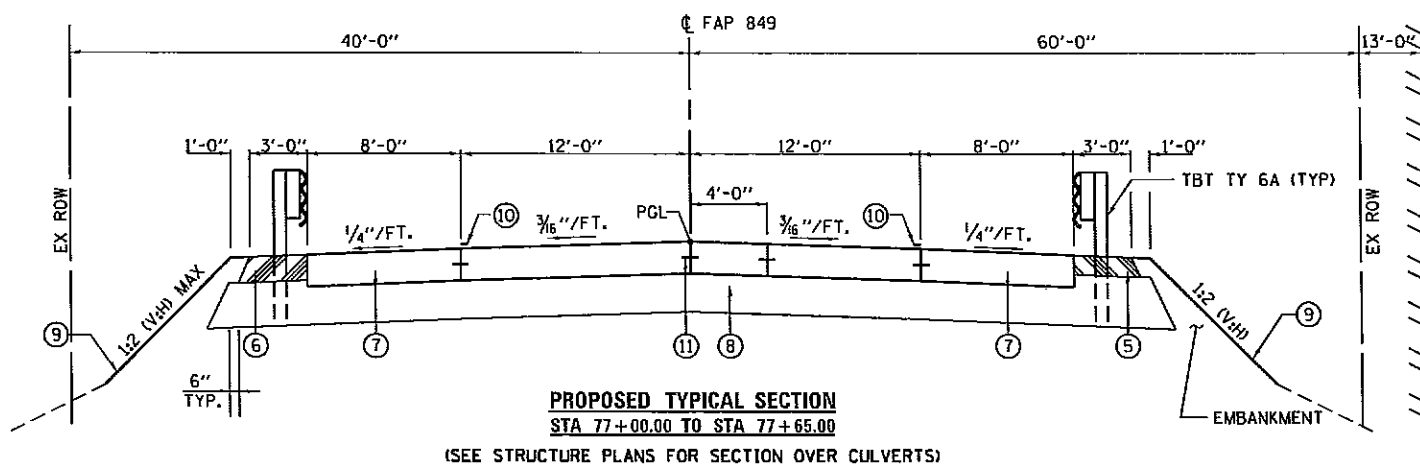
BASE COURSE WIDENING:
STA 75+90.00 TO STA 78+75.00 - LT
HMA SHOULDERS:
STA 75+90.00 TO STA 77+13.13 - LT
STA 77+51.87 TO STA 78+75.00 - LT

BASE COURSE WIDENING:
STA 75+52.87 TO STA 77+00.00 - RT
STA 77+65.00 TO STA 79+10.00 - RT
HMA SHOULDERS:
STA 75+52.87 TO STA 77+13.13 - RT
STA 77+51.87 TO STA 78+80.77 - RT



PROPOSED TYPICAL SECTION

STA 75+32.42 TO 75+90.00 - LT
STA 78+75.00 TO 79+28.71 - LT
STA 75+32.42 TO 75+52.87 - RT
STA 79+10.00 TO 79+28.71 - RT



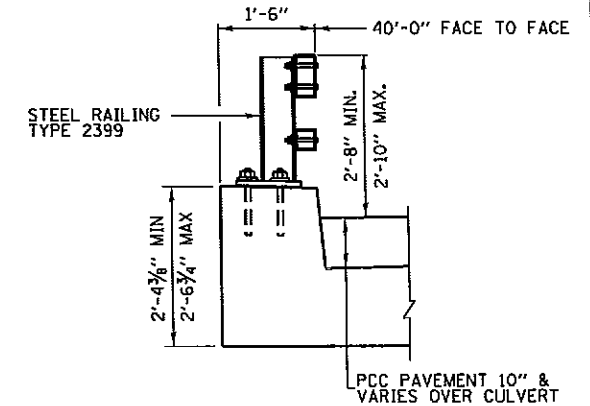
PROPOSED TYPICAL SECTION

STA 77+00.00 TO STA 77+65.00

(SEE STRUCTURE PLANS FOR SECTION OVER CULVERTS)

LEGEND

- ① GUARDRAIL REMOVAL
- ② BASE COURSE WIDENING 10" - FOR TRAFFIC STAGING. TO REMAIN IN PLACE AS PAVED SHOULDER AFTER CONSTRUCTION. SEE STAGING PLANS FOR LIMITS.
- ③ HMA SURFACE COURSE, MIX D, N90 (168 LBS/SQ YD), 1 1/2"
- ④ LEVELING BINDER (MACHINE METHOD), IL-9.5FG, N90 (112 LBS/SQ YD), 1"
- ⑤ HMA SHOULDERS, 6" - SEE PLAN SHEETS FOR LIMITS
- ⑥ HMA SHOULDERS, 8" - SEE PLAN SHEETS FOR LIMITS
- ⑦ PCC PAVEMENT 10" - THICKNESS VARIES OVER CULVERT
- ⑧ 12" OF CA6 OR CA10 - NONE OVER CULVERT. QUANTITY INCLUDED IN GRANULAR BACKFILL FOR STRUCTURES.
- ⑨ SEEDING, CLASS 2A WITH MULCH, METHOD 2
- ⑩ PAINT PAVEMENT MARKING - LINE 4"
- ⑪ LONGITUDINAL CONSTRUCTION JOINT TIE BAR - #6 AT 24" CTS GROUTED IN PLACE (SEE HIGHWAY STANDARD 420001)



SHOULDER DETAIL ACROSS CULVERT

STA 77+13.13 TO 77+51.87 LT & RT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	1138-1	JEFFERSON	36	8
			CONTRACT NO. 78210	
[ILLINOIS] FED. AID PROJECT				

EARTHWORK SCHEDULE				
LOCATION	SUITABLE EARTH EXCAVATION	SUITABLE EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT (NOT A PAY ITEM)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
NW & NE QUADRANT CUTS & FILLS	631	473	525	-52
SW & SE QUADRANT CUTS & FILLS	132	99	134	-35
EXCAVATION FOR GRAN. BACKFILL FOR STRUCTURE	340	255		+255
EXCAVATION FOR CULVERT	575	431		+431
TOTALS	1678	1258	659	+599

NOTES:

1. EXCAVATION USED AS EMBANKMENT = (SUITABLE EARTH EXCAVATION)*0.75

WORK ZONE AND PAVEMENT MARKING REMOVAL SCHEDULE			
LOCATION	PAVEMENT MARKING DESCRIPTION	WORK ZONE PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL
		SQ FT	SQ FT
STA 73+82.25 TO 80+66.75, CL	YELLOW SKIP-DASH	108	
STA 73+82.25 TO 76+26.25, CL	YELLOW SKIP-DASH		21
STA 78+38.75 TO 80+66.75, CL	YELLOW SKIP-DASH		19
STA 75+42.25 TO 79+22.75, RT	WHITE EDGE	195	
STA 75+66.25 TO 78+98.75, LT	WHITE EDGE	195	111
STA 75+42.25 TO 77+00.00, RT	WHITE EDGE		53
STA 77+65.00 TO 79+22.75, RT	WHITE EDGE		53
TOTALS		498	257

PAVEMENT MARKING SCHEDULE					
LOCATION	DESCRIPTION	SHORT-TERM PAVEMENT MARKING	PAINT PAVEMENT MARKING - LINE 4"	PAINT PAVEMENT MARKING - LINE 24"	TEMP PAVEMENT MARKING - LINE 4"
		FOOT	FOOT	FOOT	FOOT
STA 73+82.25 TO 80+66.75, CL	YELLOW SKIP-DASH	144	180		180
STA 74+22.25 TO 79+98.75, RT	WHITE	40**			
STA 75+66.25 TO 78+98.75, LT	WHITE	40**			
STA 74+50.00 TO 80+12.00, LT	WHITE EDGE		562		562
STA 74+50.00 TO 80+12.00, RT	WHITE EDGE		562		562
STA 81+64.00, RT	WHITE			12	
TOTALS		224	1304	12	1304

① INCLUDES 1 ADDITIONAL APPLICATION

** 4' WHITE STRIPES @ 45° ANGLE @ 100' CTS

F & E ROW MARKERS SCHEDULE	
LOCATION	F&E ROW MARKERS
	EACH
STA 74+85.00, 43' LT	1
STA 74+85.00, 75' LT	1
STA 77+95.00, 75' LT	1
STA 77+95.00, 43' LT	1
TOTALS	4

BASE COURSE SCHEDULE	
LOCATION	BASE COURSE WIDENING, 10"
	SQ YD
STA 75+90.00 TO 77+00.00, LT	37
STA 75+52.87 TO 77+00.00, RT	99
STA 77+65.00 TO 78+75.00, LT	37
STA 77+65.00 TO 79+10.00, RT	91
TOTAL	264

PIPE CULVERT SCHEDULE					
LOCATION	PIPE CUL. CL A, TY 1 18"	PRECAST REINF CONC FLARED END SEC 18"	CONCRETE COLLAR	PIPE CULVERT REMOVAL***	CONC HEADWALL REMOVAL
	FOOT	EACH	CU YD	FOOT	EACH
STA 78+02.34 TO 78+44.45, 35' RT	50	1			
STA 78+84.45, 31.3' RT			0.9		
STA 77+68.65 TO 78+44.45, 31' RT				76	1
TOTALS	50	1	0.9	76	1

*** INCLUDED IN COST OF PIPE CULV, CLASS A, TY 1 18" (SEE SPECIAL PROVISIONS)

EROSION CONTROL SCHEDULE				
LOCATION	TEMPORARY EROSION CONTROL SEEDING (2 APPS)	PERIMETER EROSION BARRIER	TEMPORARY DITCH CHECKS	INLET AND PIPE PROTECTION
	POUND	FOOT	FOOT	EACH
NW QUADRANT CUTS & FILLS	20	182	10	
NE QUADRANT CUTS & FILLS	40	199	10	
SW QUADRANT CUTS & FILLS	20	209		1
SE QUADRANT CUTS & FILLS	20	178		
TOTALS	100	768	20	1

SEEDING SCHEDULE										
LOCATION	SEEDING, CLASS 2A	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHOROUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURE GROUND LIMESTONE	MULCH, METHOD 2	EROSION CONTROL BLANKET	HEAVY DUTY EROS CONT BLANKET	TURF REINFORCE MAT
	ACRE	ACRE	POUND	POUND	POUND	TON	ACRE	SQ YD	SQ YD	SQ YD
NW QUADRANT CUTS & FILLS	0.1	0.1	9	9	9	0.2	0.1	552	158	
NE QUADRANT CUTS & FILLS	0.2	0.2	18	18	18	0.4	0.2	156	90	
SW QUADRANT CUTS & FILLS	0.1	0.1	9	9	9	0.2	0.1	412	104	66
SE QUADRANT CUTS & FILLS	0.1	0.1	9	9	9	0.2	0.1	159	68	
SEEDING, CLASS 7			20							
TOTALS	0.5	0.5	65	45	45	1.0	0.5	1279	420	66

RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE		
LOCATION	RRPM	RRPM REMOVAL
	EACH	EACH
STA 73+86.00	1	1
STA 74+66.00	1	1
STA 75+46.00	1	1
STA 76+26.00	1	1
STA 77+06.00	1	1
STA 77+86.00	1	1
STA 78+66.00	1	1
STA 79+46.00	1	1
STA 80+26.00	1	1
TOTALS	9	9

SHOULDER SCHEDULE		
LOCATION	HMA SHOULDERS, 6"	HMA SHOULDERS, 8"
	SQ YD	SQ YD
STA 75+32.42 TO 75+52.87, RT		10
STA 75+32.42 TO 77+13.13, LT		86
STA 75+52.87 TO 77+13.13, RT	50	
STA 77+51.87 TO 78+80.77, RT	39	
STA 78+80.77 TO 79+28.71, RT		6
STA 77+51.87 TO 79+28.71, LT		102
TOTAL	89	204

GUARDRAIL REMOVAL SCHEDULE	
LOCATION	FOOT
SN 041-2021 - (IL 142) RT	177
SN 041-2021 - (IL 142) LT	291
TOTALS	468


TREE REMOVAL SCHEDULE	
LOCATION	ACRE
STA 77+51.88 TO 77+91.24, 59' RT	0.125
STA 75+98.91 TO 77+00.00, 49' RT	0.125
TOTALS	0.25

PCC PAVEMENT SCHEDULE		
LOCATION	PCC PAVEMENT 10"	PAVEMENT FABRIC
	SQ YD	SQ YD
STA 77+00.00 TO 77+65.00	289	289
TOTALS	289	289

GUARDRAIL SCHEDULE						
LOCATION	SPBGR, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL TYPE 6A	TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	GUARDRAIL MARKERS, TYPE A	TERMINAL MARKER, DIRECT APPLIED	STEEL RAILING, TYPE 2399
	FOOT	EACH	EACH	EACH	EACH	FOOT
STRUCTURE NO. 041-2021 - NW	37.5	1	1	2	1	
STRUCTURE NO. 041-2021 - NE		1	1	2	1	
STRUCTURE NO. 041-2021 - SW		1	1	2	1	
STRUCTURE NO. 041-2021 - SE	37.5	1	1	2	1	
STRUCTURE NO. 041-2021 - HEADWALLS						82
TOTALS	75.0	4	4	8	4	82

REMOVAL SCHEDULE		
LOCATION	PAVEMENT REMOVAL	HMA SURF REM - BUTT JOINT
	SQ YD	SQ YD
STA 77+00 TO 77+65.00 (EX RDWY)	213	
STA 77+00.00 TO 77+65.00 (STG 1 WIDEN-LT)	22	
STA 75+32.42 TO 75+62.42		97
STA 78+98.71 TO 79+28.71		97
TOTALS	235	194

PAVING SCHEDULE				
LOCATION	LEVELING BINDER (MM), IL-9.5FG, N90	HMA SURFACE COURSE, MIX "D", N90	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)
	TON	TON	POUND	TON
STA 75+32.42 TO 77+00.00			200	1
STA 75+32.42 TO 75+90.00		16		
STA 75+51.95 TO 77+00.00	6	3		
STA 75+82.42 TO 77+00.00	22		64	0.6
STA 75+90.00 TO 77+00.00	3	40		
STA 77+65.00 TO 78+78.71	21	3	61	0.6
STA 77+65.00 TO 78+75.00	8	40		
STA 77+65.00 TO 78+75.57	5			
STA 77+65.00 TO 79+28.71			194	1
STA 78+75.00 TO 79+28.71		15		
STA 78+98.71 TO 79+28.71		9		
TOTALS	65	123	519	3

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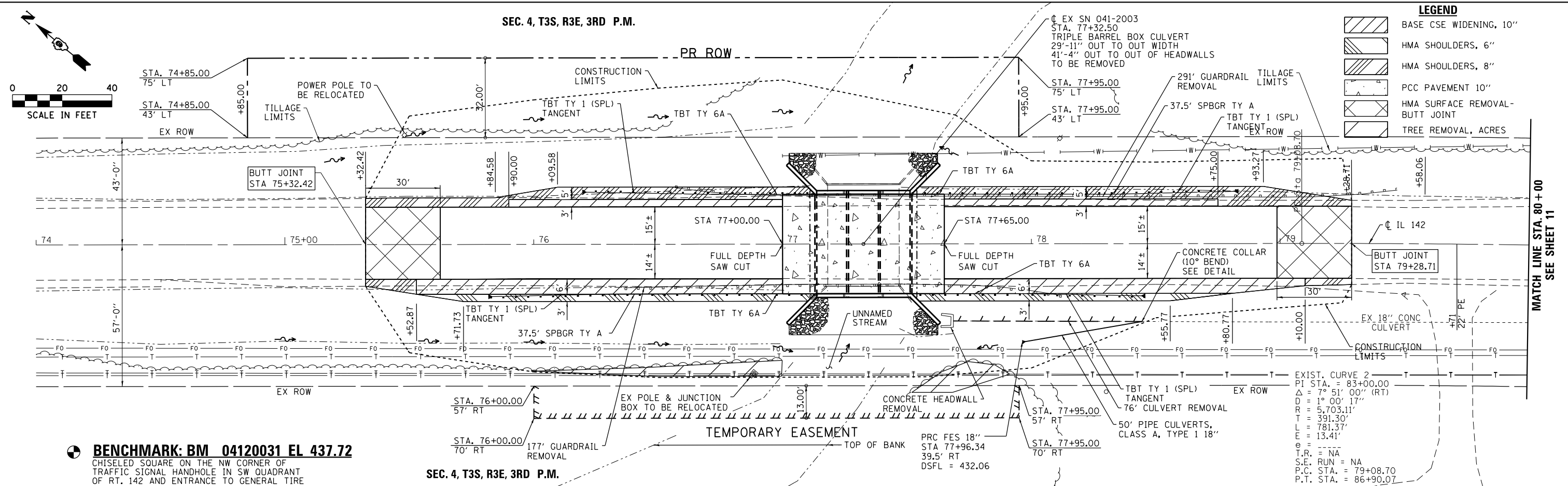
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

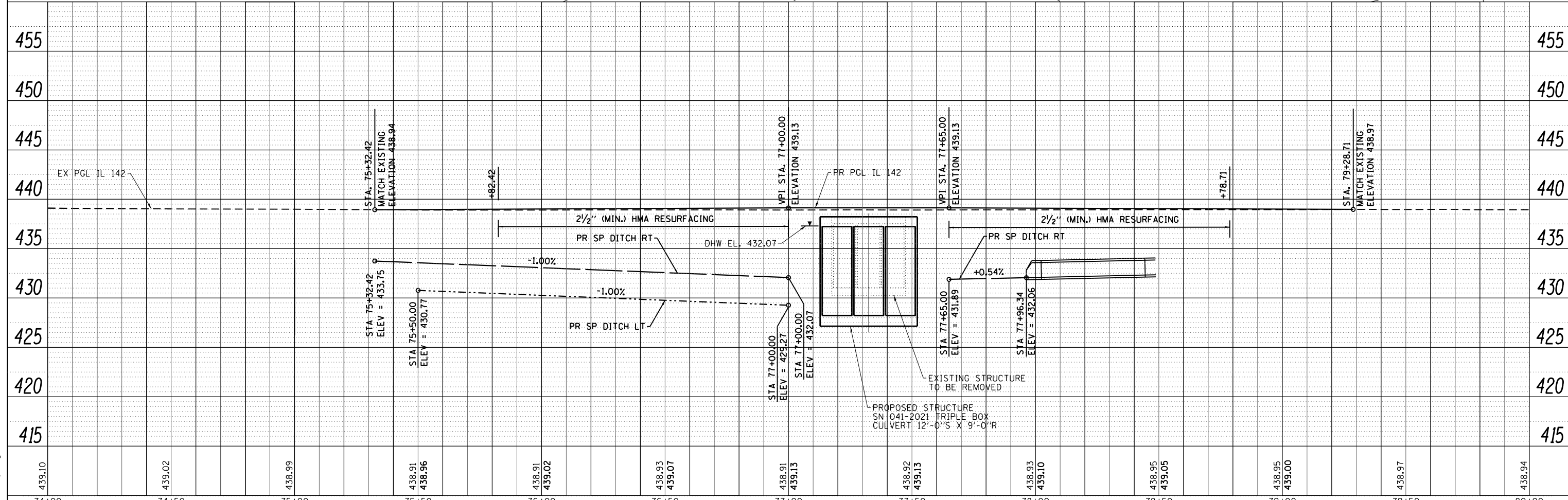
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CONTRACT NO. 78210			ILLINOIS FED. AID PROJECT	

SEC. 4, T3S, R3E, 3RD P.M.



BENCHMARK: BM 04120031 EL 437.72
 CHISELED SQUARE ON THE NW CORNER OF
 TRAFFIC SIGNAL HANDHOLE IN SW QUADRANT
 OF RT. 142 AND ENTRANCE TO GENERAL TIRE

SEC. 4, T3S, R3E, 3RD P.M.



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74+00	74+50	75+00	75+50	76+00	76+50	77+00	77+50	78+00	78+50	79+00	79+50	80+00



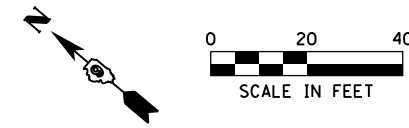
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

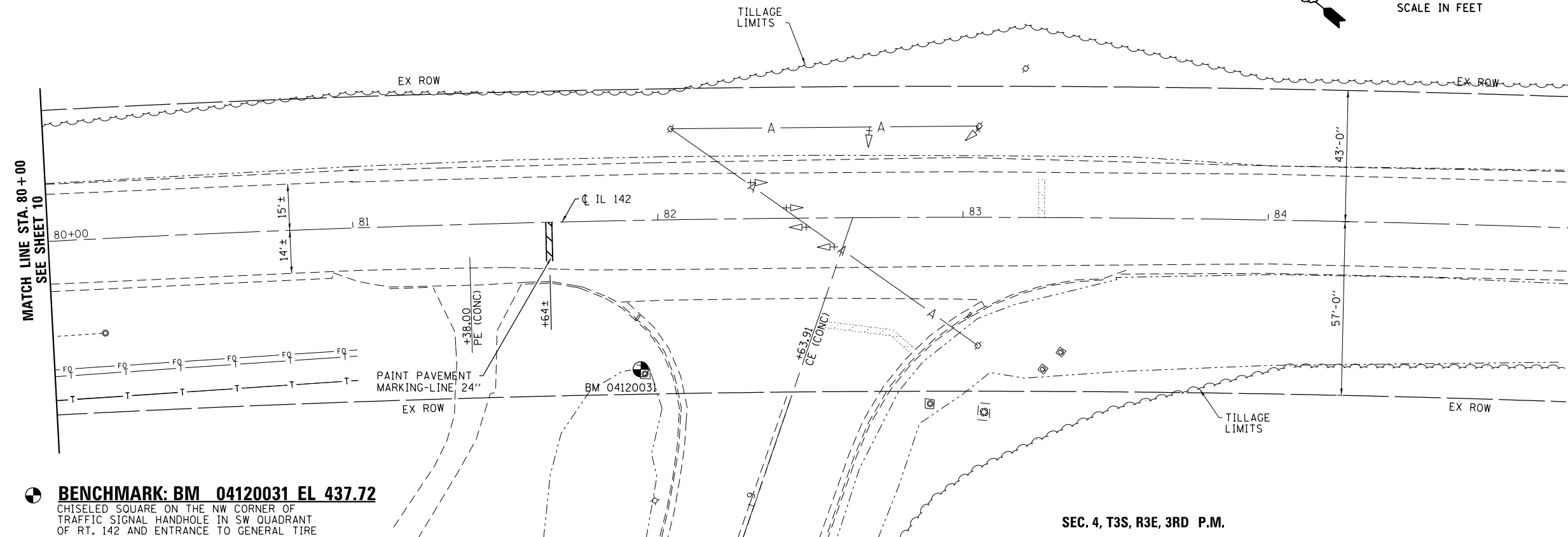
IL RTE 142 PLAN & PROFILE
SN 041-2021
 SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. 74+00 TO STA. 80+00

F.A.P. RTE. = 849	SECTION = 113B-1	COUNTY = JEFFERSON	TOTAL SHEETS = 36	SHEET NO. = 10
CONTRACT NO. 78210				
ILLINOIS FED. AID PROJECT				

SEC. 4, T3S, R3E, 3RD P.M.

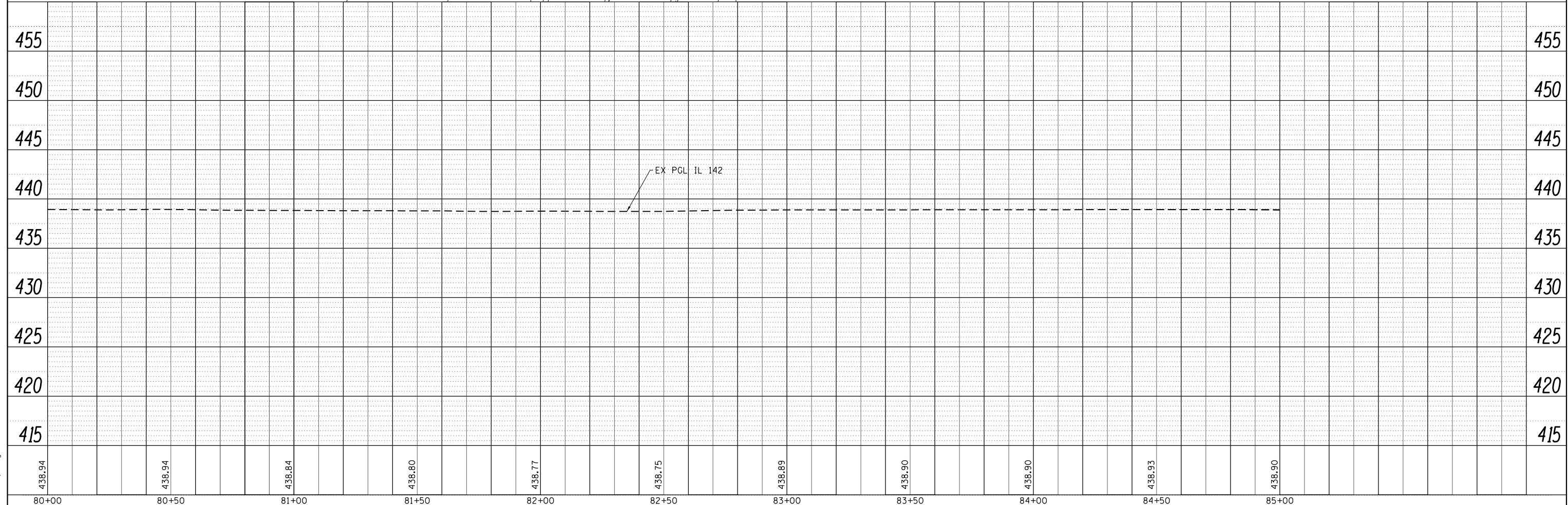


EXIST. CURVE 2
 PI STA. = 83+00.00
 $\Delta = 7^\circ 51' 00''$ (RT)
 $D = 1^\circ 00' 17''$
 $R = 5,703.11'$
 $T = 391.30'$
 $L = 781.37'$
 $E = 13.41'$
 $e = \text{---}$
 $T.R. = NA$
 $S.E. RUN = NA$
 $P.C. STA. = 79+08.70$
 $P.T. STA. = 86+90.07$



BENCHMARK: BM 04120031 EL 437.72
 CHISELED SQUARE ON THE NW CORNER OF
 TRAFFIC SIGNAL HANDHOLE IN SW QUADRANT
 OF RT. 142 AND ENTRANCE TO GENERAL TIRE

SEC. 4, T3S, R3E, 3RD P.M.



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	SCALE: 1"=20' SHEET NO. 2 OF 2 SHEETS STA. 80+00 TO STA. 85+00						

SCHEDULE OF QUANTITIES

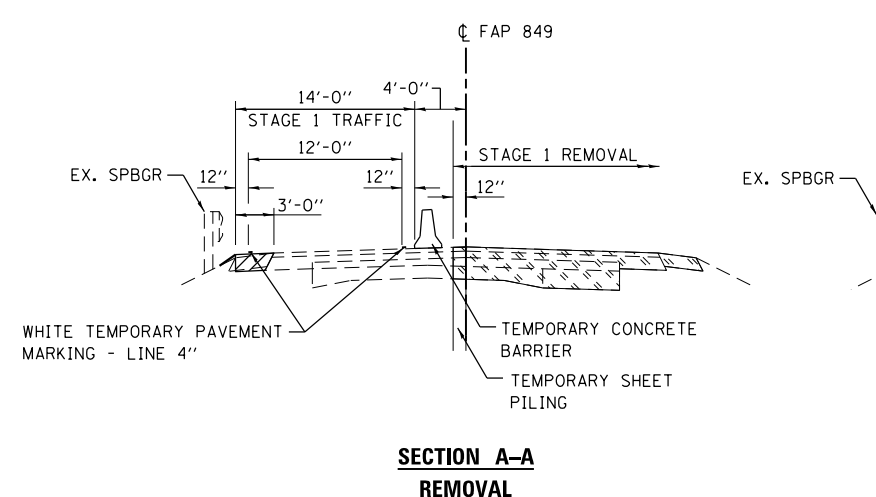
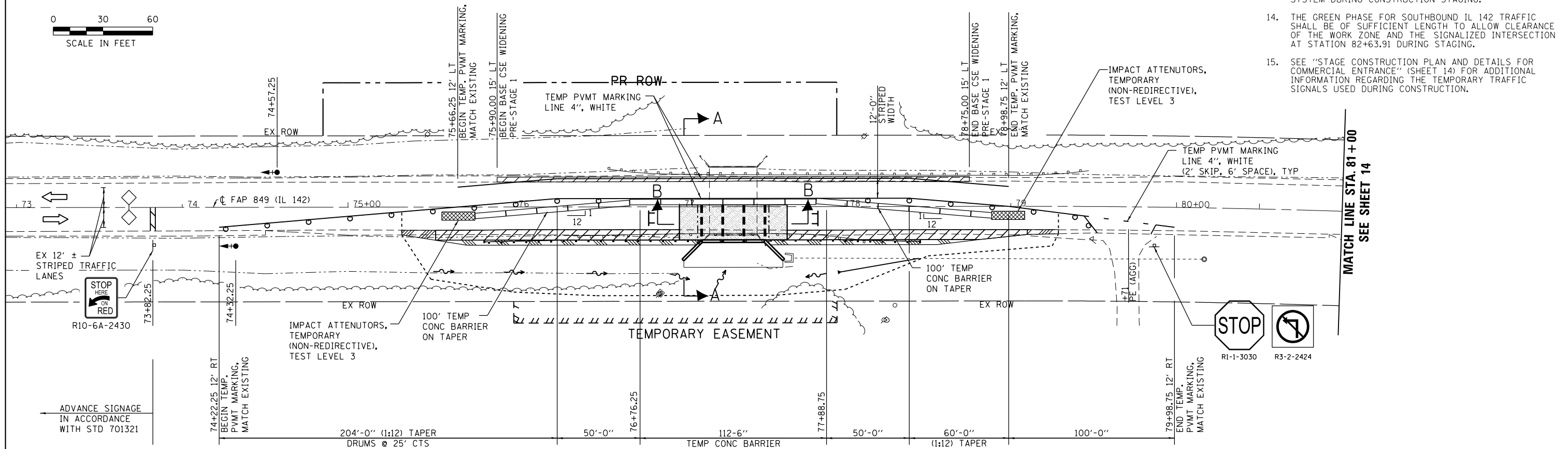
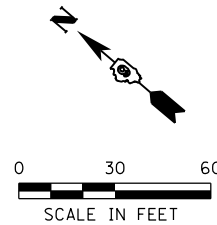
TEMPORARY CONCRETE BARRIER	
STATION TO STATION	FEET
75+76.25 TO 78+88.75	312.5'
TOTAL	312.5'
TEMPORARY BRIDGE TRAFFIC SIGNALS	- 1 EACH
IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	- 2 EACH

LEGEND

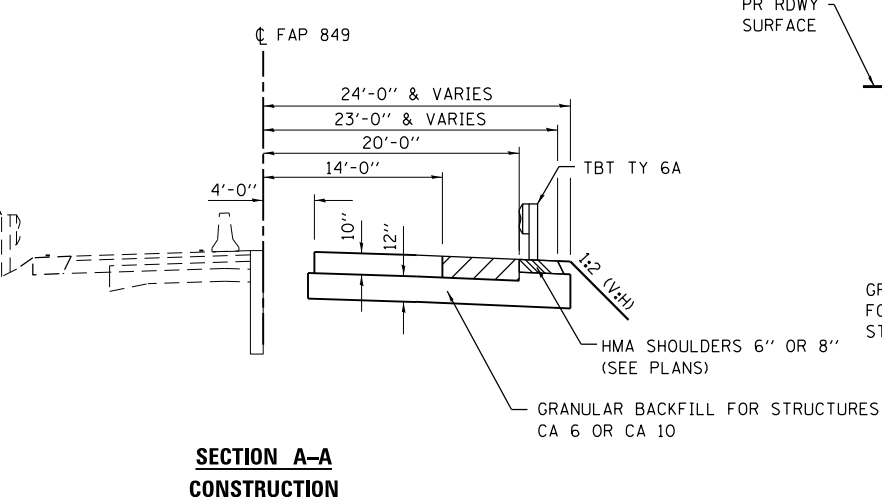
- ◊ DETECTOR LOOP
- ⊙ TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- ▨ PAVEMENT REMOVAL
- ▧ BASE COURSE WIDENING, 10"
- ▩ HMA SHOULDER, 6"
- HMA SHOULDER, 8"
- ⊥ TYPE III BARRICADE

GENERAL NOTES

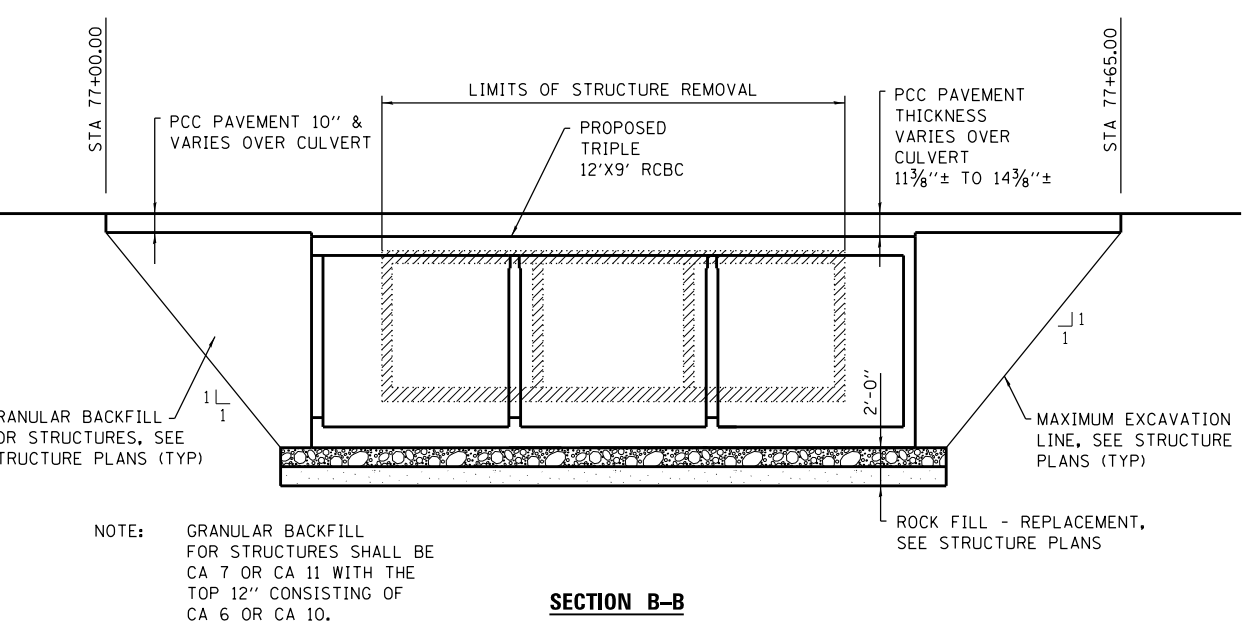
- TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
- SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
- COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
- ADDITIONAL SIGNAGE FOR ENTRANCES AND ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
- THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-1102(0)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-1103) SHOWN ON THE STAGE 2 PLAN SHEET FOR THIS STRUCTURE SHALL BE 12'-6" FOR STAGE 1 CONSTRUCTION.
- SEE STD 701321 FOR COMPLETION OF STAGE CONSTRUCTION SIGNING AND ADVANCE DETECTOR LOOP PLACEMENT NOT SHOWN.
- 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.
- THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHOULD 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 STAGE 2 NEW BRIDGE RAIL. THE BARRIER WALL REFLECTORS SHALL BE INSTALLED PRIOR TO OPENING TO TRAFFIC.
- ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC AND THE TEMPORARY TRAFFIC SIGNALS BE TURNED OFF OR COVERED.
- ALL TRAFFIC SIGNALS SHOWN ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
- TEMPORARY BRIDGE TRAFFIC SIGNALS SHALL BE A 3-PHASE SIGNAL WITH ACTUATION PROVIDED FOR THE PRIVATE ENTRANCE AT STATION 82+63.91.
- THE EXISTING TRAFFIC SIGNALS AT THE SIGNALIZED ENTRANCE AT STATION 82+63.91 SHALL BE UTILIZED AS PART OF THE TEMPORARY BRIDGE TRAFFIC SIGNAL SYSTEM DURING CONSTRUCTION STAGING.
- THE GREEN PHASE FOR SOUTHBOUND IL 142 TRAFFIC SHALL BE OF SUFFICIENT LENGTH TO ALLOW CLEARANCE OF THE WORK ZONE AND THE SIGNALIZED INTERSECTION AT STATION 82+63.91 DURING STAGING.
- SEE "STAGE CONSTRUCTION PLAN AND DETAILS FOR COMMERCIAL ENTRANCE" (SHEET 14) FOR ADDITIONAL INFORMATION REGARDING THE TEMPORARY TRAFFIC SIGNALS USED DURING CONSTRUCTION.



**SECTION A-A
REMOVAL**



**SECTION A-A
CONSTRUCTION**



SECTION B-B

NOTE: GRANULAR BACKFILL FOR STRUCTURES SHALL BE CA 7 OR CA 11 WITH THE TOP 12" CONSISTING OF CA 6 OR CA 10.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE 1 CONSTRUCTION PLAN AND DETAILS

SCALE: 1"=30' SHEET NO. 1 OF 1 SHEETS STA. 73+00 TO STA. 81+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	36	12
CONTRACT NO. 78210				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

RELOCATE TEMPORARY CONCRETE BARRIER			
STATION	TO	STATION	FEET
75+76.25		78+88.75	312.5'
			TOTAL - 312.5'
TEMPORARY CONCRETE BARRIER			
STATION	TO	STATION	FEET
75+51.25		75+76.25	25.0'
78+88.75		79+13.75	25.0'
			TOTAL - 50.0'

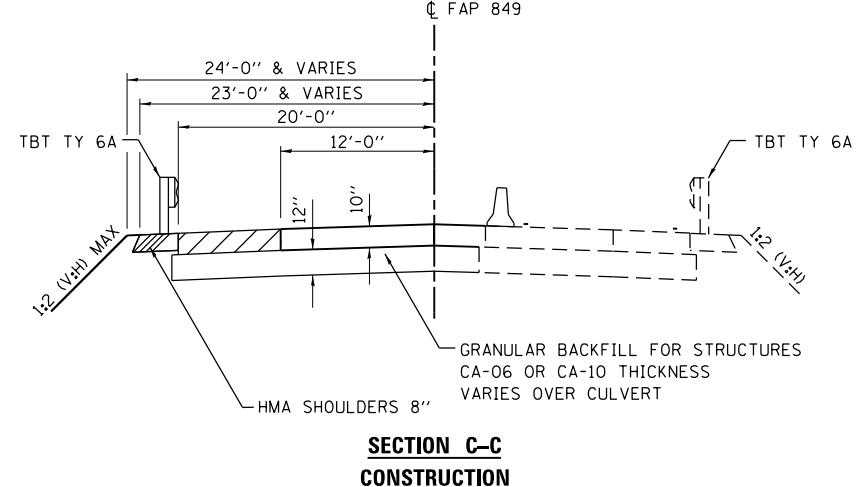
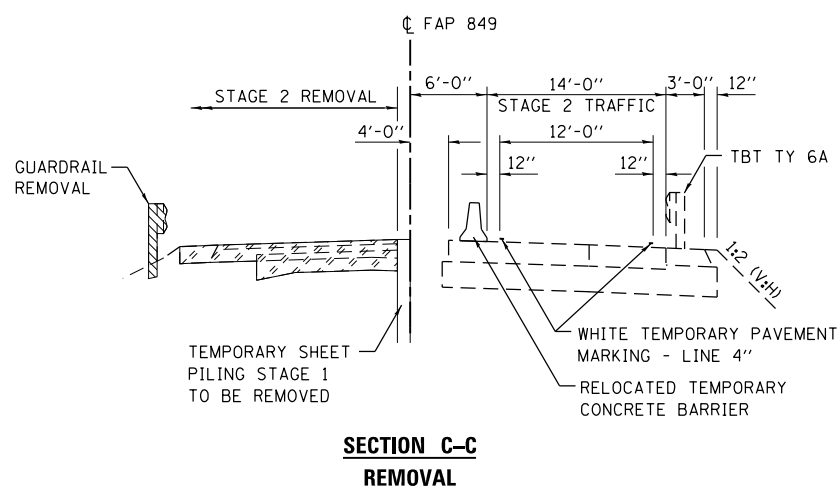
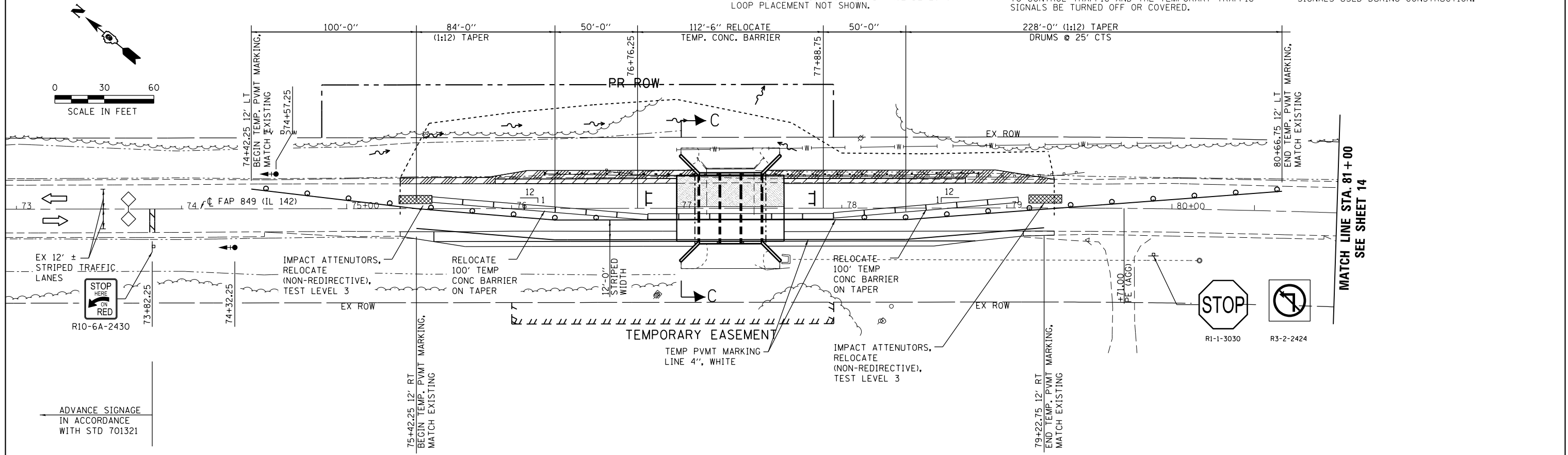
IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH

LEGEND

- DETECTOR LOOP
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- PAVEMENT REMOVAL
- BASE COURSE WIDENING, 10"
- HMA SHOULDER, 6"
- HMA SHOULDER, 8"
- TYPE III BARRICADE

GENERAL NOTES

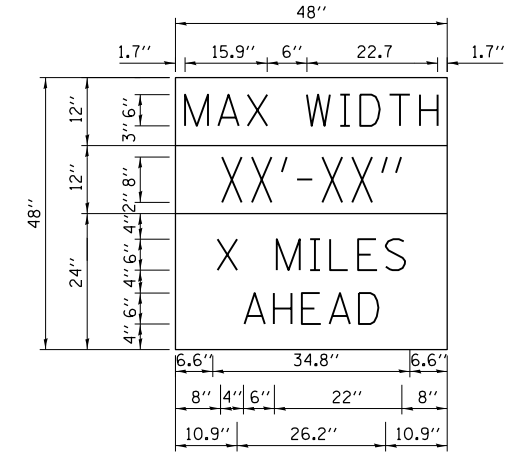
- TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
- SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
- COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
- ADDITIONAL SIGNAGE FOR ENTRANCES AND ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
- THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-1102(0)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-1103) SHOWN ON THIS SHEET SHALL BE 12'-6" FOR STAGE 2 CONSTRUCTION.
- SEE STD 701321 FOR COMPLETION OF STAGE CONSTRUCTION SIGNING AND ADVANCE DETECTOR LOOP PLACEMENT NOT SHOWN.
- 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.
- THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. 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 STAGE 2 NEW BRIDGE RAIL. THE BARRIER WALL REFLECTORS SHALL BE INSTALLED PRIOR TO OPENING TO TRAFFIC.
- ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC AND THE TEMPORARY TRAFFIC SIGNALS BE TURNED OFF OR COVERED.
- ALL TRAFFIC SIGNALS SHOWN ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
- TEMPORARY BRIDGE TRAFFIC SIGNALS SHALL BE A 3-PHASE SIGNAL WITH ACTUATION PROVIDED FOR THE PRIVATE ENTRANCE AT STATION 82+63.91.
- THE EXISTING TRAFFIC SIGNALS AT THE SIGNALIZED ENTRANCE AT STATION 82+63.91 SHALL BE UTILIZED AS PART OF THE TEMPORARY BRIDGE TRAFFIC SIGNAL SYSTEM DURING CONSTRUCTION STAGING.
- THE GREEN PHASE FOR SOUTHBOUND IL 142 TRAFFIC SHALL BE OF SUFFICIENT LENGTH TO ALLOW CLEARANCE OF THE WORK ZONE AND THE SIGNALIZED INTERSECTION AT STATION 82+63.91 DURING STAGING.
- SEE "STAGE CONSTRUCTION PLAN AND DETAILS FOR COMMERCIAL ENTRANCE" (SHEET 14) FOR ADDITIONAL INFORMATION REGARDING THE TEMPORARY TRAFFIC SIGNALS USED DURING CONSTRUCTION.



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

W12-1103

W12-1103 (WIDTH IS 8D); NO BORDER, BLOCK ON WHITE; "MAX WIDTH" D; NO BORDER, BLACK ON ORANGE; "XX'-XX'" D; NO BORDER, BLACK ON WHITE; "X MILES" D; "AHEAD" D



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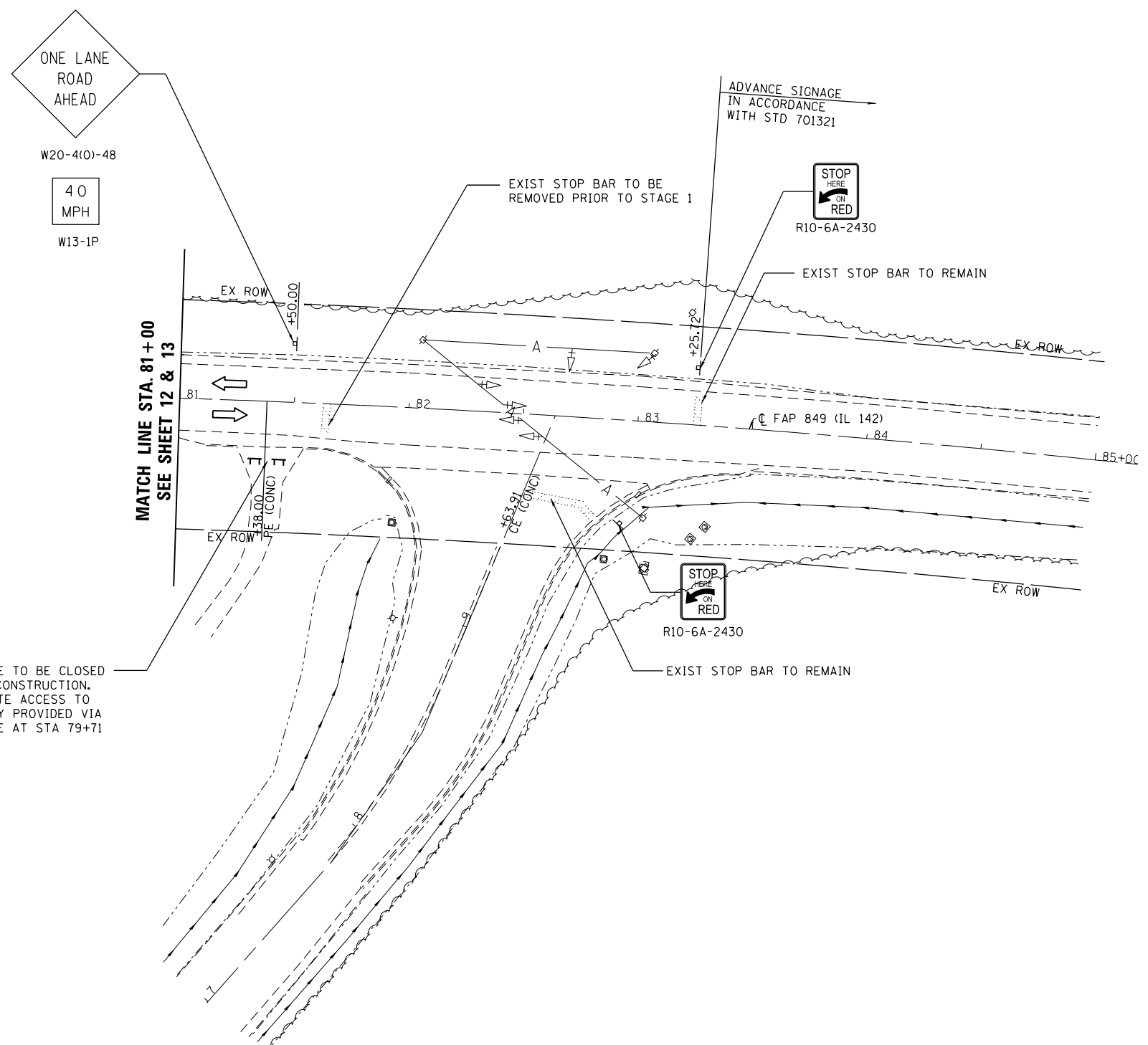
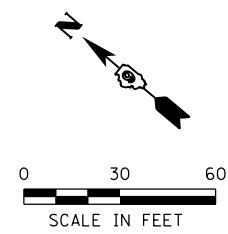
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 CONSTRUCTION PLAN AND DETAILS

SCALE: 1"=30' SHEET NO. 1 OF 1 SHEETS STA. 73+00 TO STA. 81+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	36	13
CONTRACT NO. 78210				
ILLINOIS FED. AID PROJECT				



- GENERAL NOTES**
 THE FOLLOWING NOTES APPLY WHEN THE TEMPORARY TRAFFIC SIGNALS ARE IN OPERATION DURING CONSTRUCTION:
1. BAG AND DISCONNECT THE SOUTHBOUND SIGNAL FACES AT CONTINENTAL TIRE LANE.
 2. DISCONNECT THE EXISTING SOUTHBOUND ADVANCE LOOP AND CONNECT THE TEMPORARY SOUTHBOUND ADVANCE LOOP. THE EXISTING NORTHBOUND ADVANCE LOOP WILL SERVE AS THE NORTHBOUND TEMPORARY LOOP.
 3. ADD TWO TEMPORARY LOOP HARNESSSES TO THE EXISTING CONTROL CABINET. ONE FOR THE TEMPORARY SOUTHBOUND STOP BAR LOOPS, AND THE OTHER FOR THE NORTHBOUND TEMPORARY STOP BAR LOOPS.
 4. ADD TWO TEMPORARY LOOP AMPLIFIERS AND REPLACE THE TWO ADVANCE LOOP AMPLIFIERS WITH TWO THAT HAVE A CALL EXTEND FEATURE IF NECESSARY.
 5. CONNECT THE TEMPORARY SOUTHBOUND SIGNAL FACES TO PHASE ONE.
 6. CONNECT THE EXISTING NORTHBOUND SIGNAL FACES TO PHASE THREE.

- LEGEND**
- ⊕ EXISTING TRAFFIC SIGNAL WITH BACKPLATE
 - ⌈ TYPE III BARRICADE

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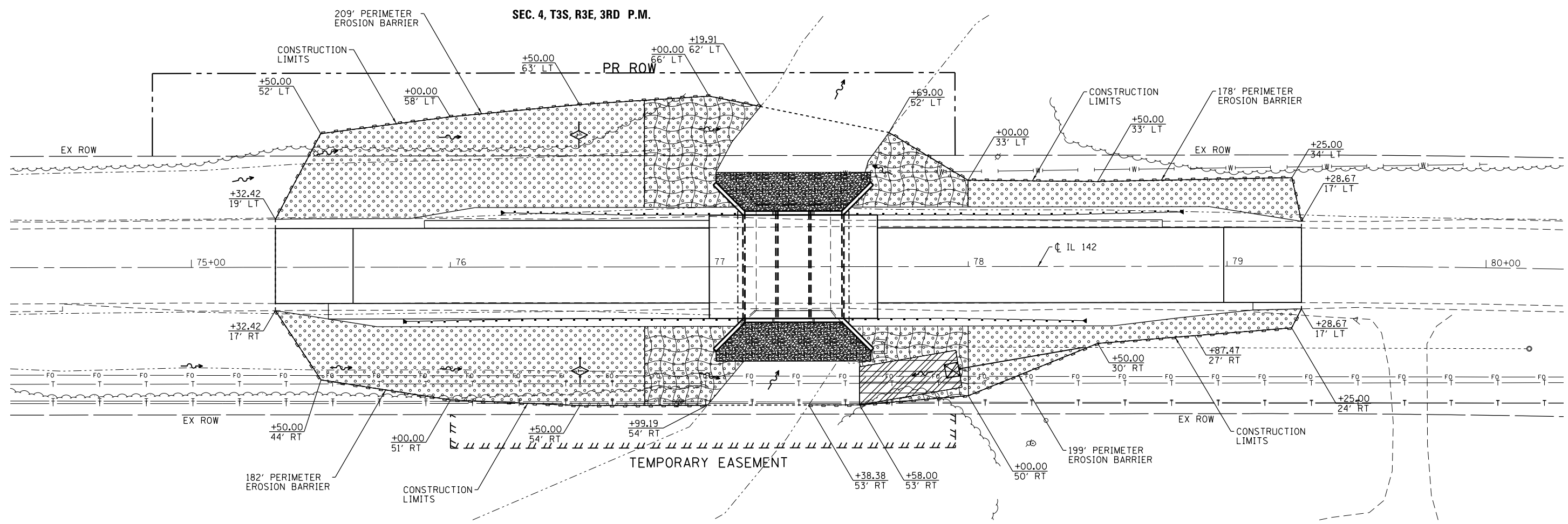
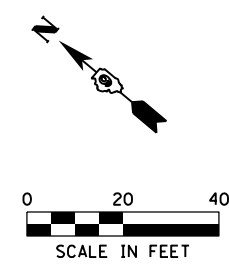
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION PLAN AND DETAILS
 FOR COMMERCIAL ENTRANCE**

SCALE: 1"=30' SHEET NO. 1 OF 1 SHEETS STA. 81+00 TO STA. 85+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	36	14
CONTRACT NO. 78210				
ILLINOIS FED. AID PROJECT				



SEC. 4, T3S, R3E, 3RD P.M.

SEC. 4, T3S, R3E, 3RD P.M.

LEGEND

	SEEDING CLASS, 2A AND EROSION CONTROL BLANKET
	SEEDING CLASS, 2A AND HEAVY DUTY EROSION CONTROL BLANKET
	TURF REINFORCEMENT MAT
	STONE RIPRAP, CLASS A5
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECK
	INLET AND PIPE PROTECTION

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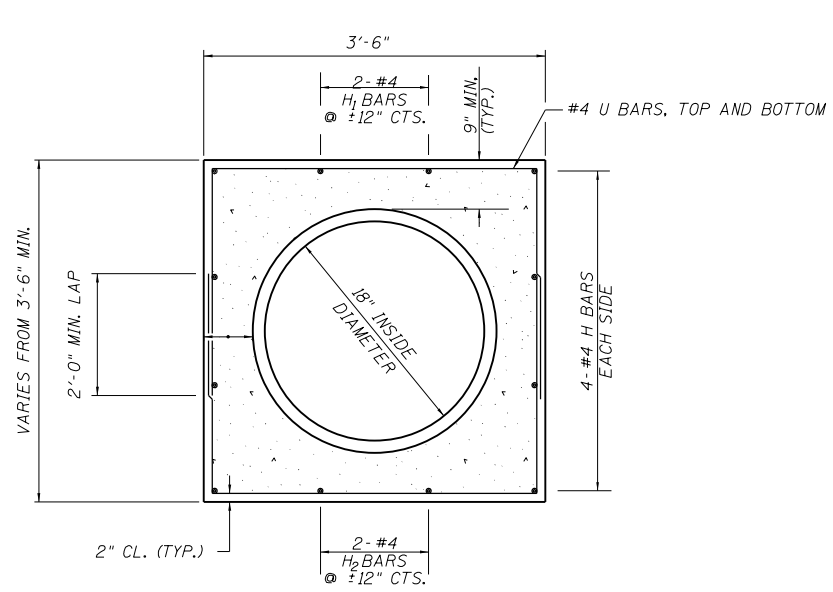
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

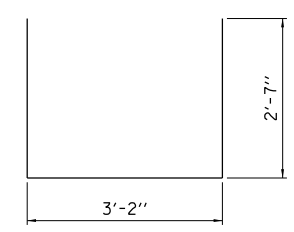
EROSION AND SEDIMENT CONTROL PLANS

SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. 74+00 TO STA. 80+50

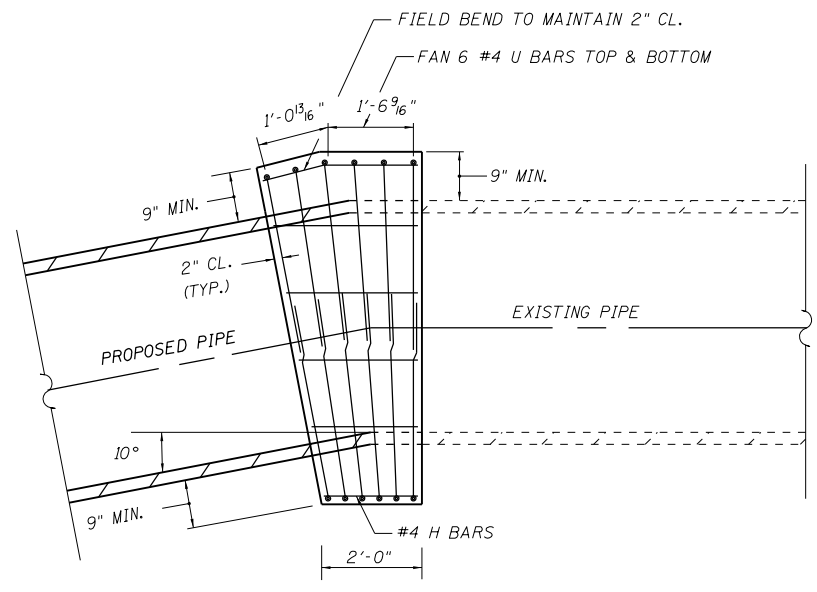
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849	113B-1	JEFFERSON	36	15
CONTRACT NO. 78210				
ILLINOIS FED. AID PROJECT				



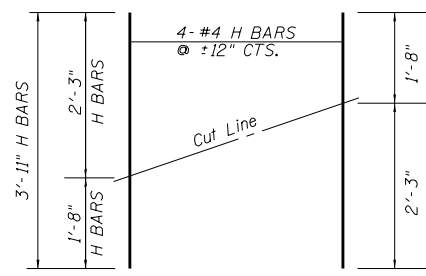
SECTION VIEW



U BAR



ELEVATION VIEW



FIELD CUTTING DIAGRAM

ORDER H BARS FULL LENGTH. CUT AS SHOWN AND USE REMAINDER OF BARS ON OPPOSITE SIDE.

BILL OF MATERIALS

Bar	No.	Size	Length	Shape
H	4	#4	3'-11"	—
H ₁	2	#4	2'-3"	—
H ₂	2	#4	1'-8"	—
U	12	#4	8'-4"	U
Concrete Collar		Cu Yd	0.9	
Reinforcement Bars		Pound	83*	

* FOR INFORMATION ONLY. INCLUDED IN COST OF CONCRETE COLLAR.

NOTES:

- COST FOR STRUCTURE EXCAVATION WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR CONCRETE COLLAR.
- THE CONCRETE COLLAR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE COLLAR, AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE CUTTING OF EXISTING AND NEW PIPE AS MAY BE REQUIRED.

CONCRETE COLLAR FOR PIPE CONNECTION DETAIL

N.T.S.

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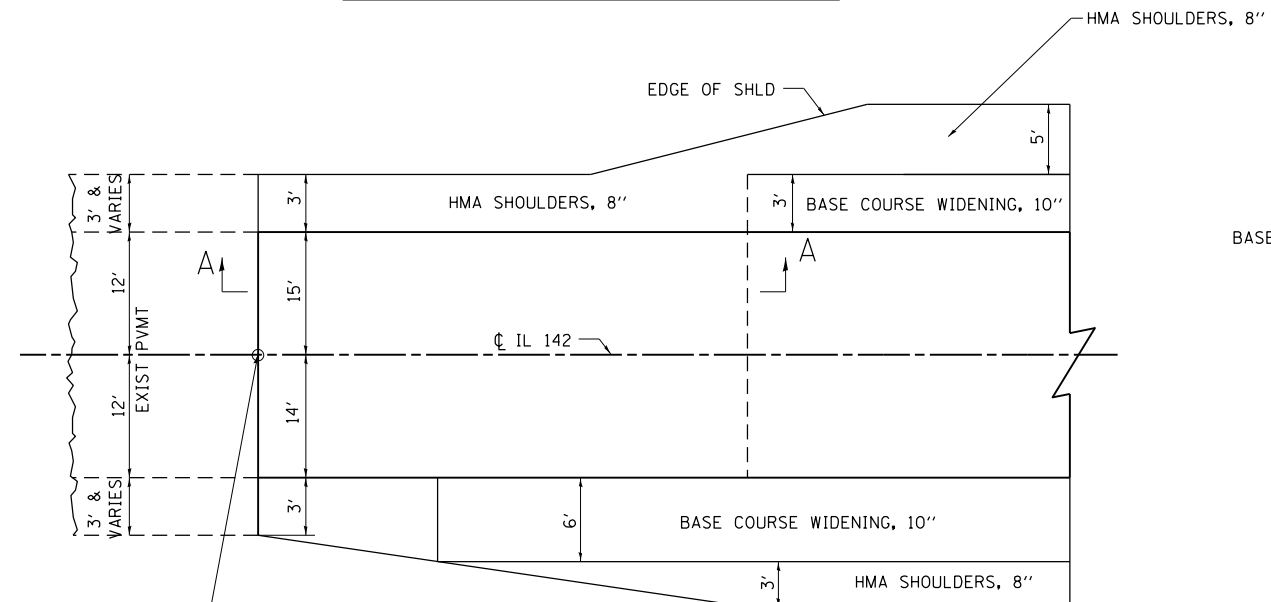
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CONCRETE COLLAR DETAIL

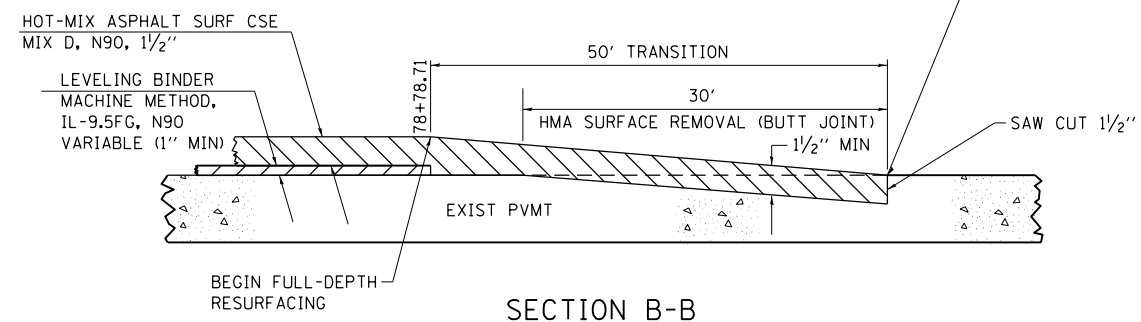
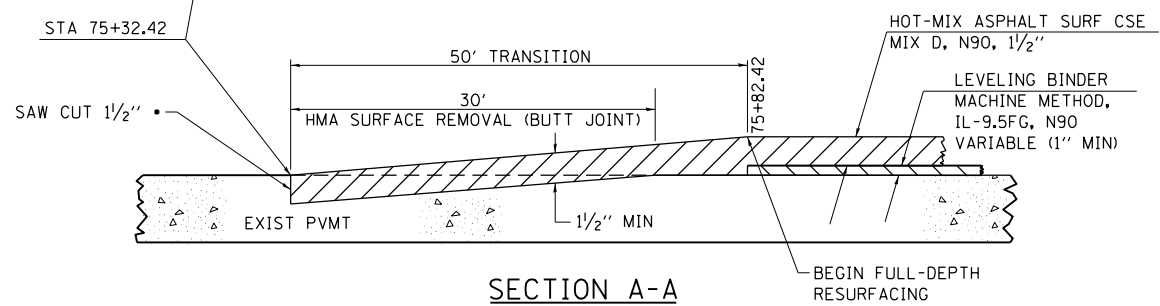
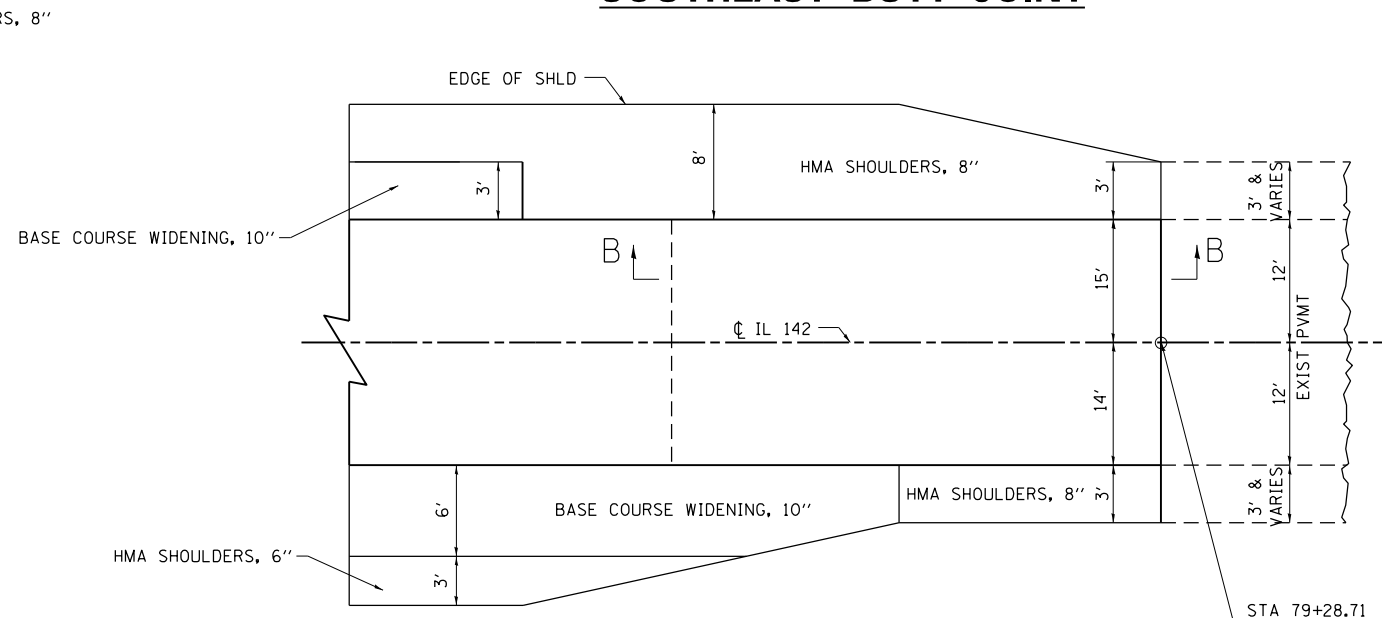
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	36	17
CONTRACT NO. 78210			ILLINOIS FED. AID PROJECT	

NORTHWEST BUTT JOINT



SOUTHEAST BUTT JOINT



- INCLUDED IN COST OF HMA SURFACE REMOVAL (BUTT JOINT)

REVISIONS	
DRAWN	10-17-90
REVISED	01-11-07
REVISED	3-25-08
REVISED	

STD. 9-86

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CHECKED -	REVISED -
DATE -	REVISED -

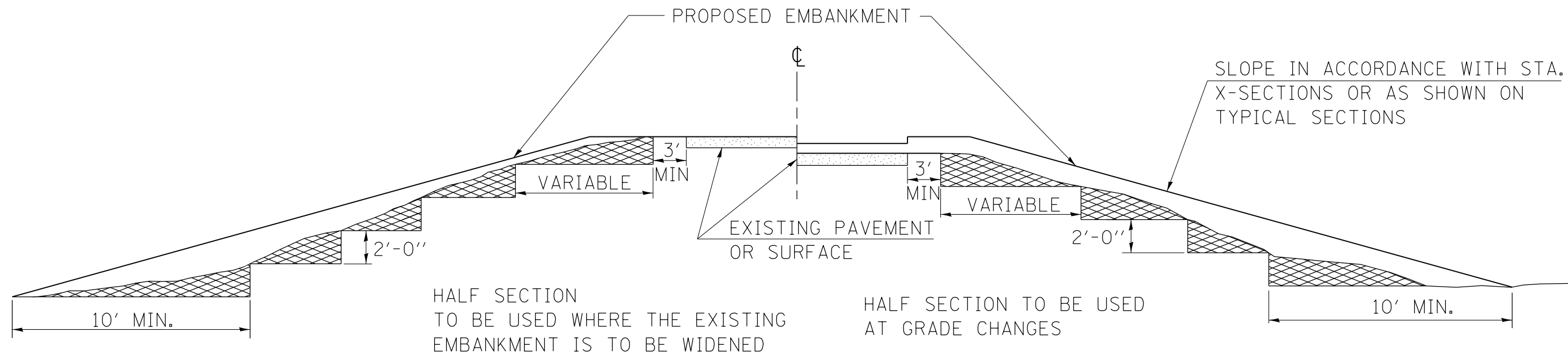
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BUTT JOINT DETAIL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	36	18
CONTRACT NO. 78210				
ILLINOIS FED. AID PROJECT				

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
RESIZED	5-7-08

STD. 9-16

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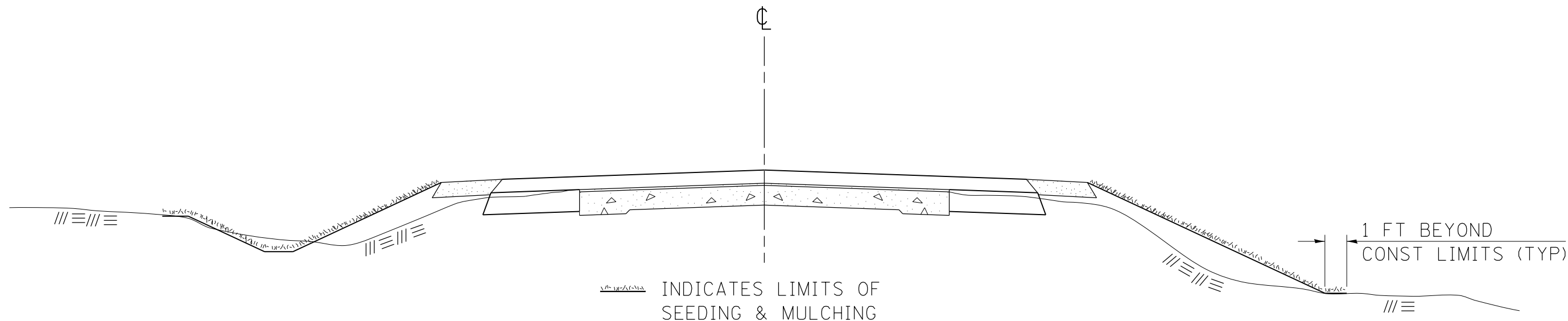
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STEP CONSTRUCTION DETAIL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	36	19
CONTRACT NO. 78210				
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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

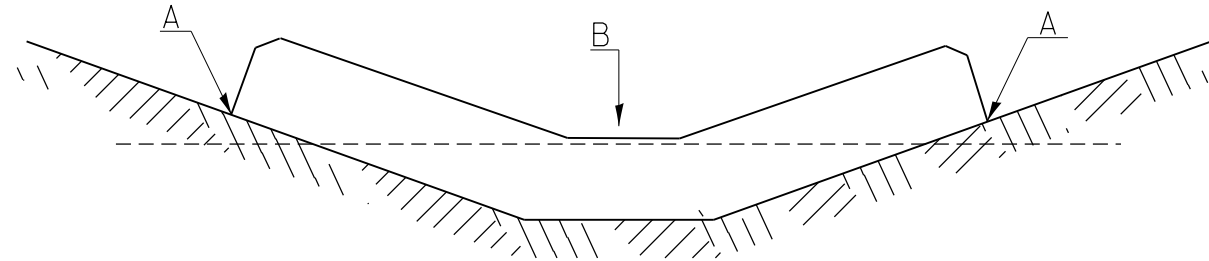
SEEDING AND MULCHING DETAIL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	36	20
CONTRACT NO. 78210				
ILLINOIS FED. AID PROJECT				

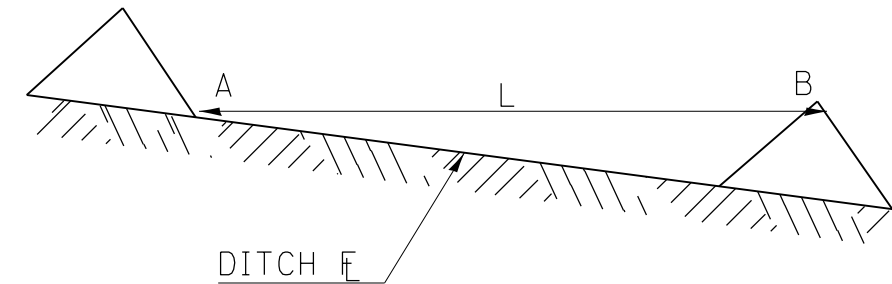
TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY DITCH CHECK IN DRAINAGE WAY



POINTS A SHOULD BE HIGHER THAN POINT B

SPACING BETWEEN TEMPORARY DITCH CHECKS



L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

B = THE LOW POINT IN CENTER OF CHECK

REVISIONS

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

STD. 9-108

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY DITCH CHECK DETAIL

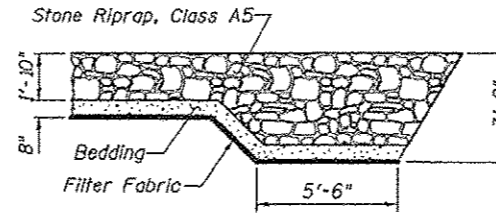
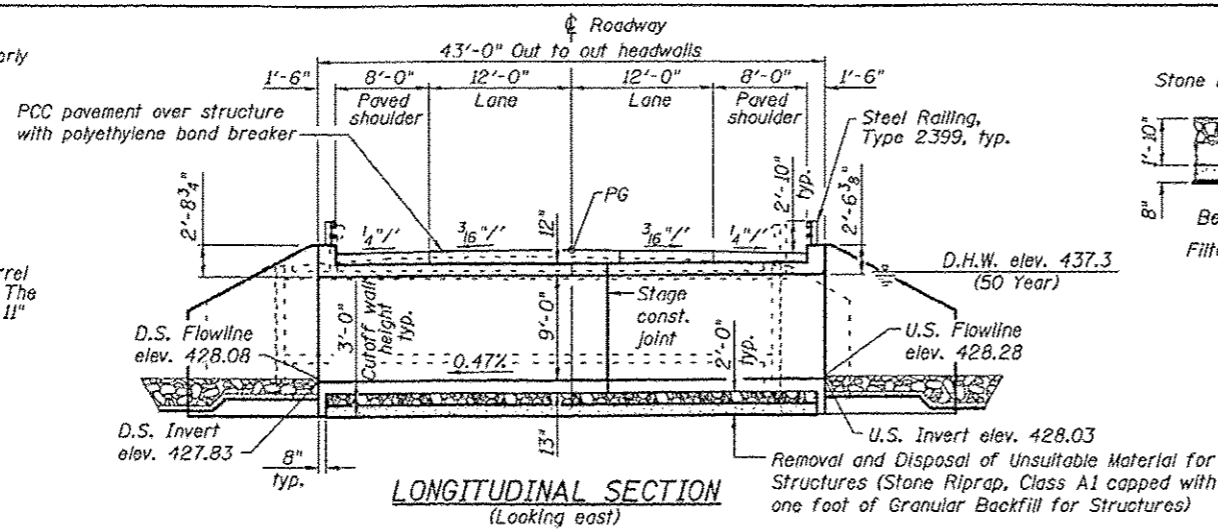
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	36	21
CONTRACT NO. 78210				
ILLINOIS FED. AID PROJECT				

BENCHMARK: BM 04120031-
Chiseled square on the NW corner
of traffic signal handhole in southwestern
quadrant of Rte. 142 and entrance to
General Trm. Elev. 437.72.

EXISTING STRUCTURE:
SN 041-2003 was originally built in
1939 as Route 142, Section 113B-1.
It is a triple barrel 9'-1" by 6'-6" R
cast-in-place reinforced concrete box
culvert with L-Type wingwalls and side
and top mounted steel railing. The barrel
length is 41'-4" out to out headwalls. The
length along centerline roadway is 29'-11".
There is no skew. Traffic shall be
maintained using stage construction.

No salvage.

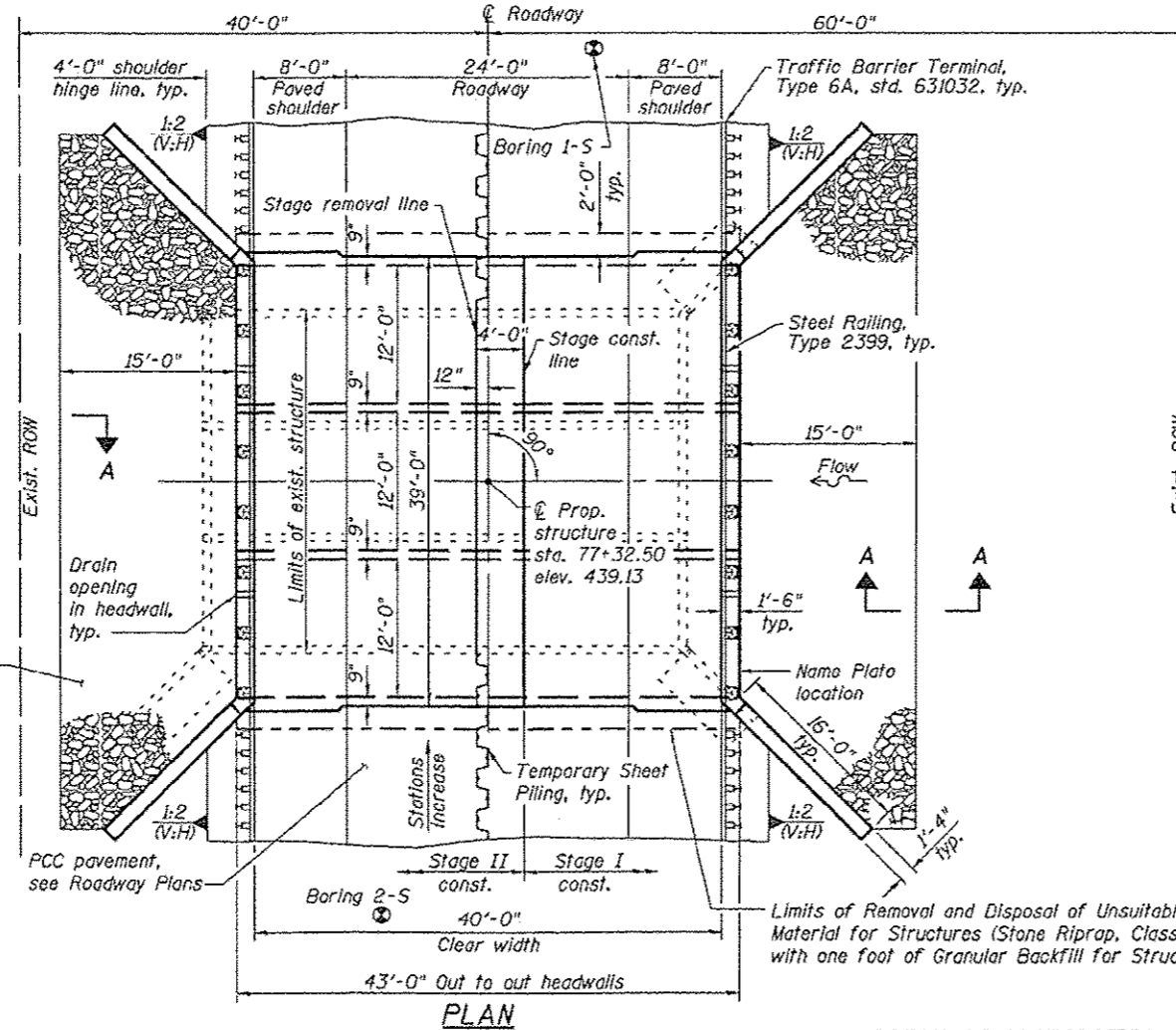


STRUCTURE INDEX OF SHEETS

General Plan & Elevation	Sheet No. 1 of 9
Stage Construction Details	Sheet No. 2 of 9
Box Culvert Details	Sheet No. 3 & 4 of 9
Steel Railing, Type 2399	Sheet No. 5 of 9
Bar Splicer Assembly and Mechanical Splicer Details	Sheet No. 6 of 9
Temporary Concrete Barrier For Stage Construction	Sheet No. 7 of 9
Boring Logs	Sheet No. 8 & 9 of 9

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. For backfilling and embankment, see Standard Specifications. Backfill culvert excavation with Granular Backfill for Structures, except the outer 3' at each end of the culvert shall be backfilled with Impervious material. See sheet 2 of 9 for limits of Granular Backfill for Structures.
4. Precast alternate is not allowed.
5. The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.
6. The barrel of the culvert shall be constructed on a 12" minimum depth of Stone Riprap, Class A1 capped with one foot of Granular Backfill for Structures.
7. Modify existing channel to match culvert at each end as directed by the Engineer, cost included in the pay item for Stone Riprap, Class A5.
8. Excavation for construction of the box culvert, including the excavation necessary to construct the granular backfill, is included in Earth Excavation, see roadway plans.



STATION 77+32.50
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 849 SEC. 113B-1
LOADING HS20-44
STRUCTURE NO. 041-2021

NAME PLATE
(See highway std. 515001)

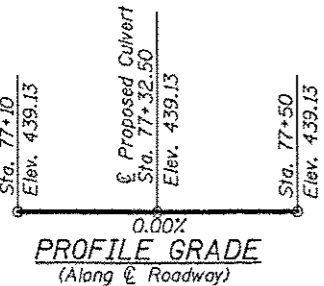


EXPIRES 11-30-2014
SIGNATURE
DATE 01-15-2013
APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Granular Backfill for Structures	Cu. Yd.	340
Stone Riprap, Class A1	Sq. Yd.	200
Stone Riprap, Class A5	Sq. Yd.	178
Filter Fabric	Sq. Yd.	178
Removal of Existing Structures	Each	1
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	133
Reinforcement Bars, Epoxy Coated	Pound	36,660
Bar Splicers	Each	223
Steel Railing, Type 2399	Foot	82
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	226.8
Temporary Sheet Piling	Sq. Ft.	1830

See Roadway Plans for quantities of Temporary Concrete Barrier, Earth Excavation, and Pavement Removal.



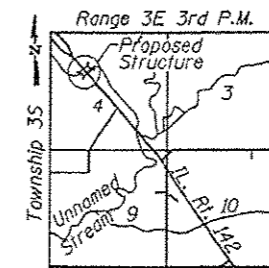
Drainage Area = 2.27 Sq. Mi.		Exist. Low Grade Elev. = 438.77 Ft. @ Sta. 82+00		Prop. Low Grade Elev. = 438.77 Ft. @ Sta. 82+00			
Flood	Freq. Yr.	Q C.F.S.	Opening-Sq. Ft.	Nat. H.W.E.	Head-Ft.	Headwater El.	
Design	10	1097	171	311	436.8	0.2	437.0
Design	50	1690	177	324	437.3	1.5	438.8
Base	100	1914	177	324	437.5	1.7	439.2
Overtopping	300	2275	-	324	437.7	-	438.8

DESIGN SPECIFICATIONS
2002 AASHTO

LOADING HS20-44
Allow 50 psf for future wearing surface.

DESIGN STRESSES

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



GENERAL PLAN & ELEVATION
IL 142 OVER UNNAMED STREAM
FAP ROUTE 849 - SECTION 113B-1

JEFFERSON COUNTY
STATION 77+32.50
STRUCTURE NO. 041-2021

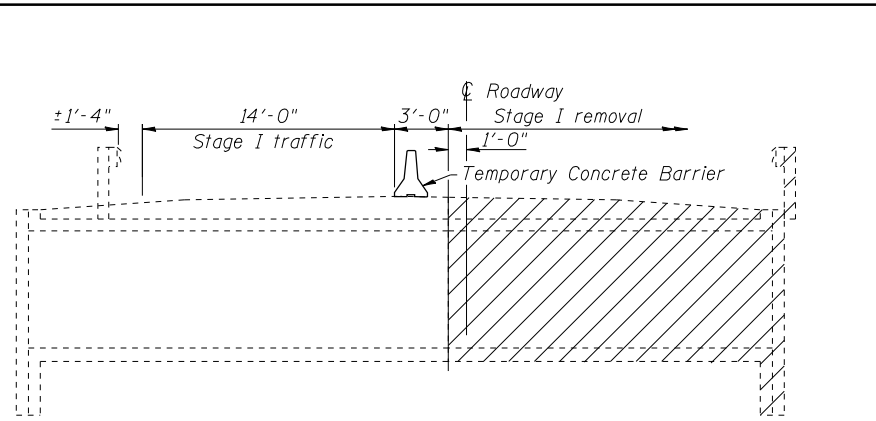
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	36	22

CONTRACT NO. 78210

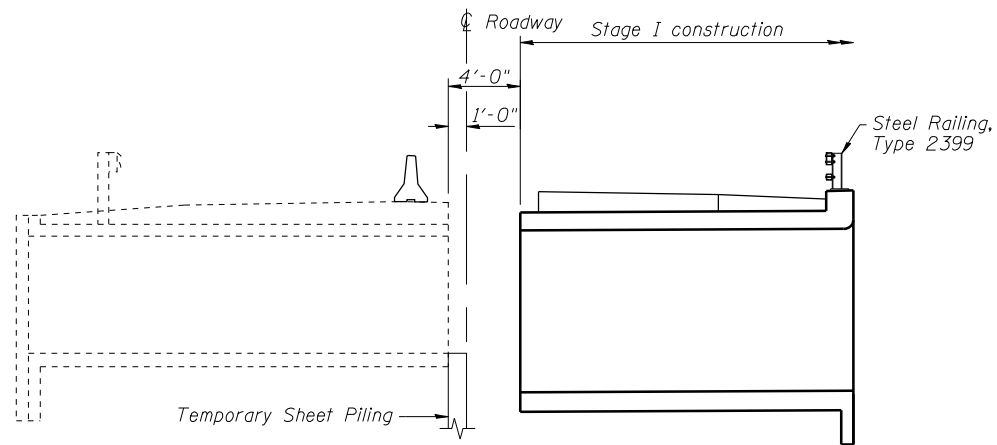
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



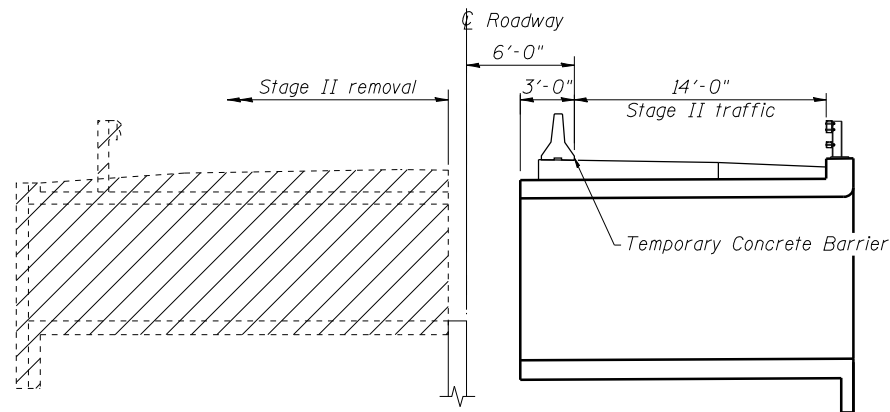
USER NAME	DESIGNED	REVISIONS
JTS	01/12	
JAF/RDP	02/12	
HAS	02/12	
RDP	06/14	



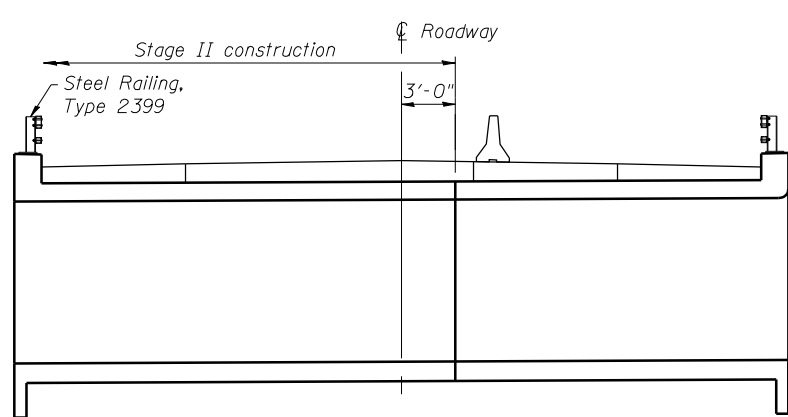
STAGE I REMOVAL



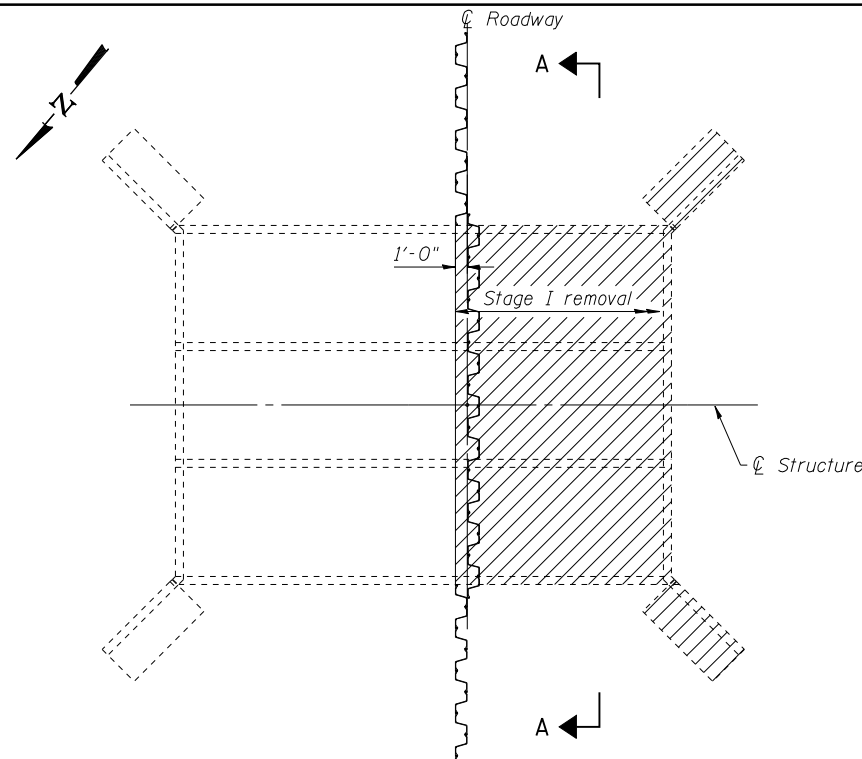
STAGE I CONSTRUCTION



STAGE II REMOVAL

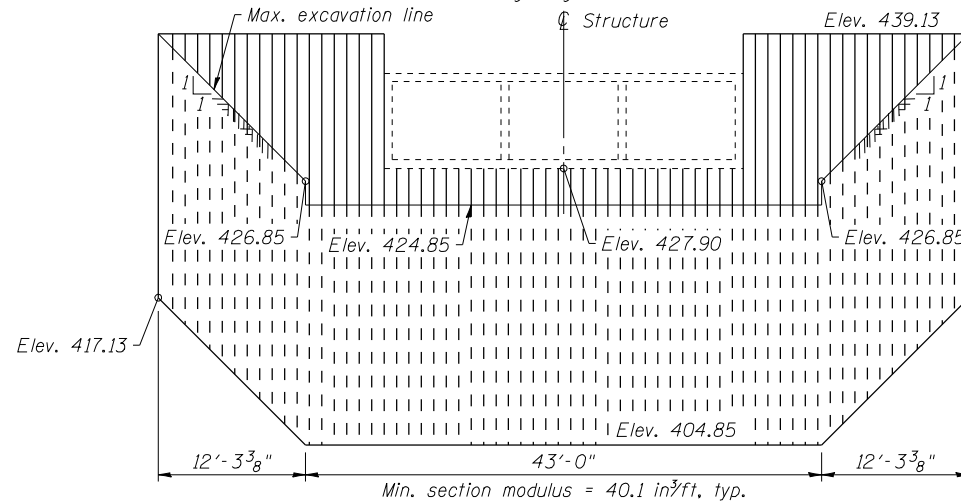


STAGE II CONSTRUCTION



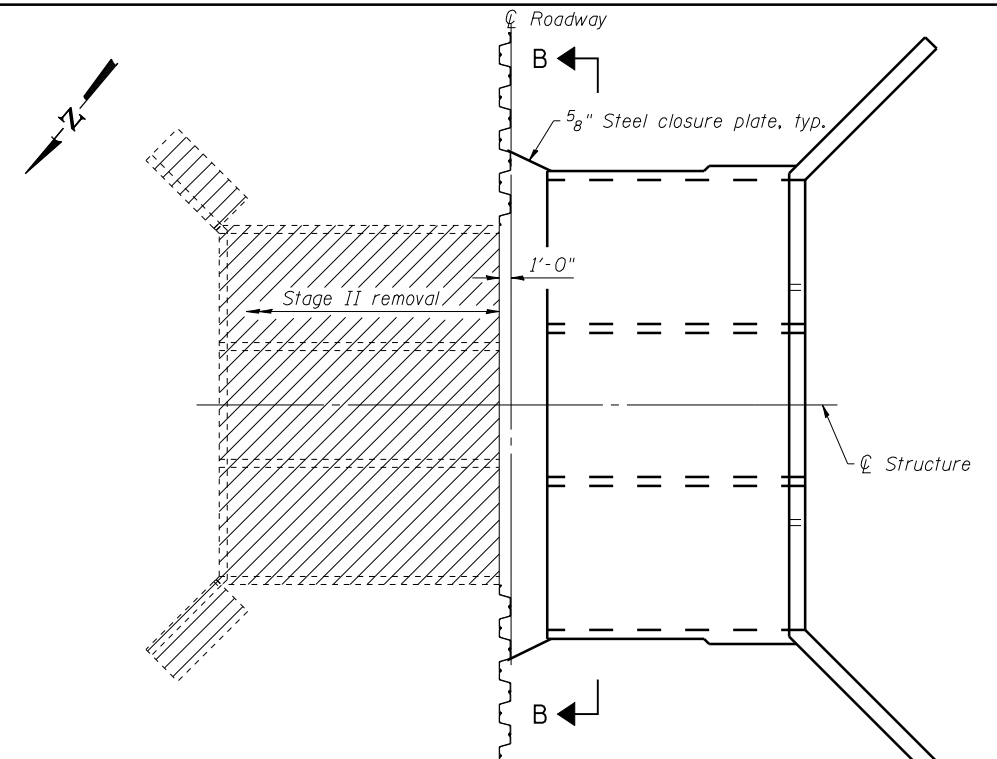
PLAN

(Showing stage I removal)



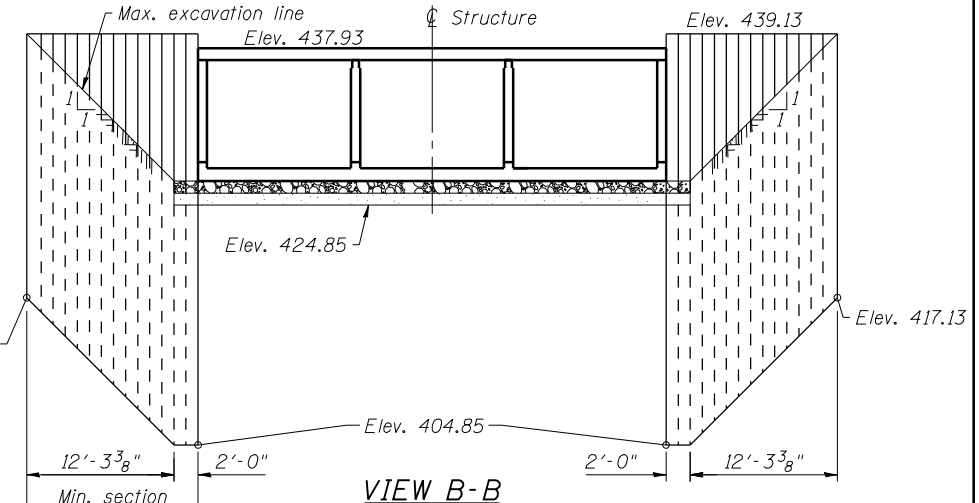
VIEW A-A

Showing Temporary Sheet Piling for Stage I Construction



PLAN

(Showing stage II removal)



VIEW B-B

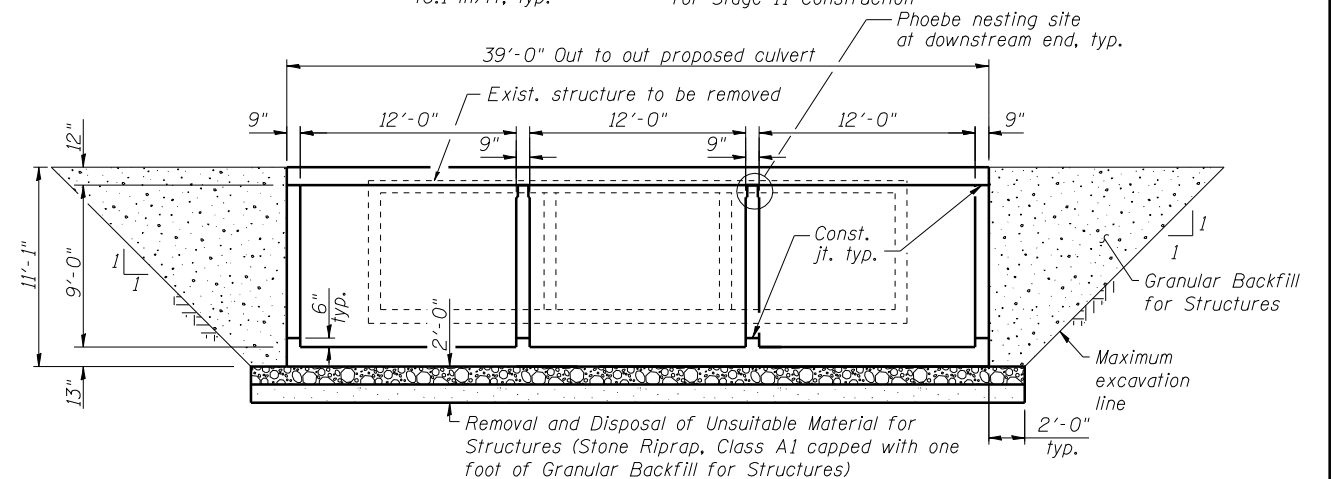
Showing Temporary Sheet Piling for Stage II Construction

STAGE CONSTRUCTION NOTES

1. All staging sections looking south.
2. Hatched areas indicate removal.
3. Removal of existing steel railing is included with Removal of Existing Structures.
4. See Roadway Plans for quantity of Temporary Concrete Barrier.

TEMPORARY SHEET PILING NOTES

1. If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.



SECTION THRU BARREL

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 FILE NAME: 02-2014-02-2014.dwg
 PLOT DATE: 7/29/2014 9:56:35 AM



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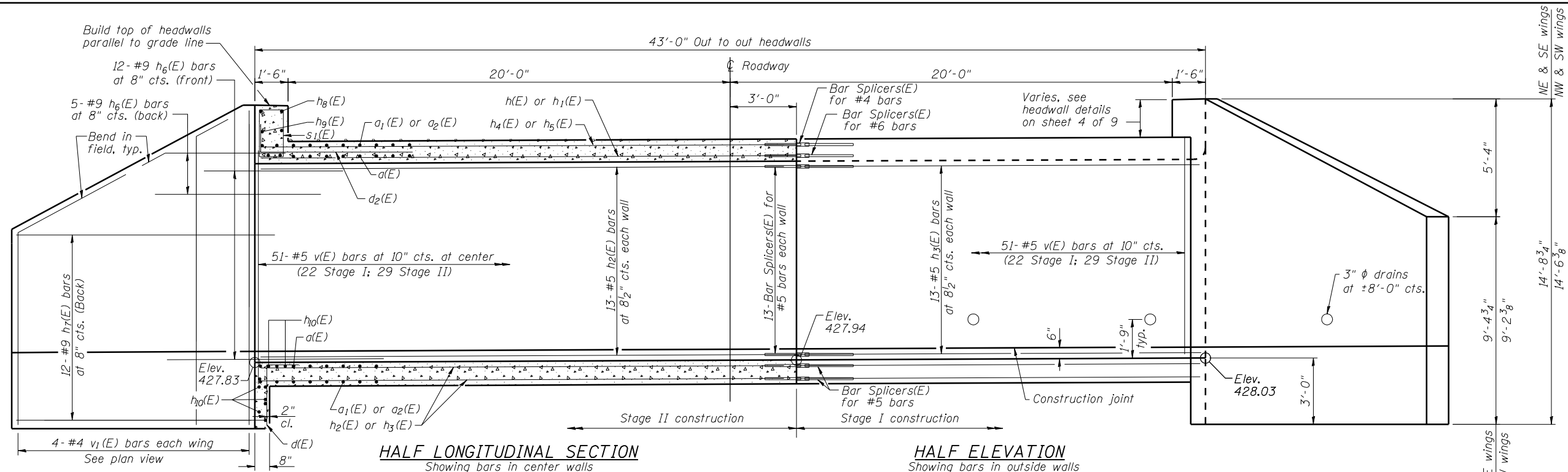
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 041-2021**

SHEET NO. 2 OF 9 SHEETS

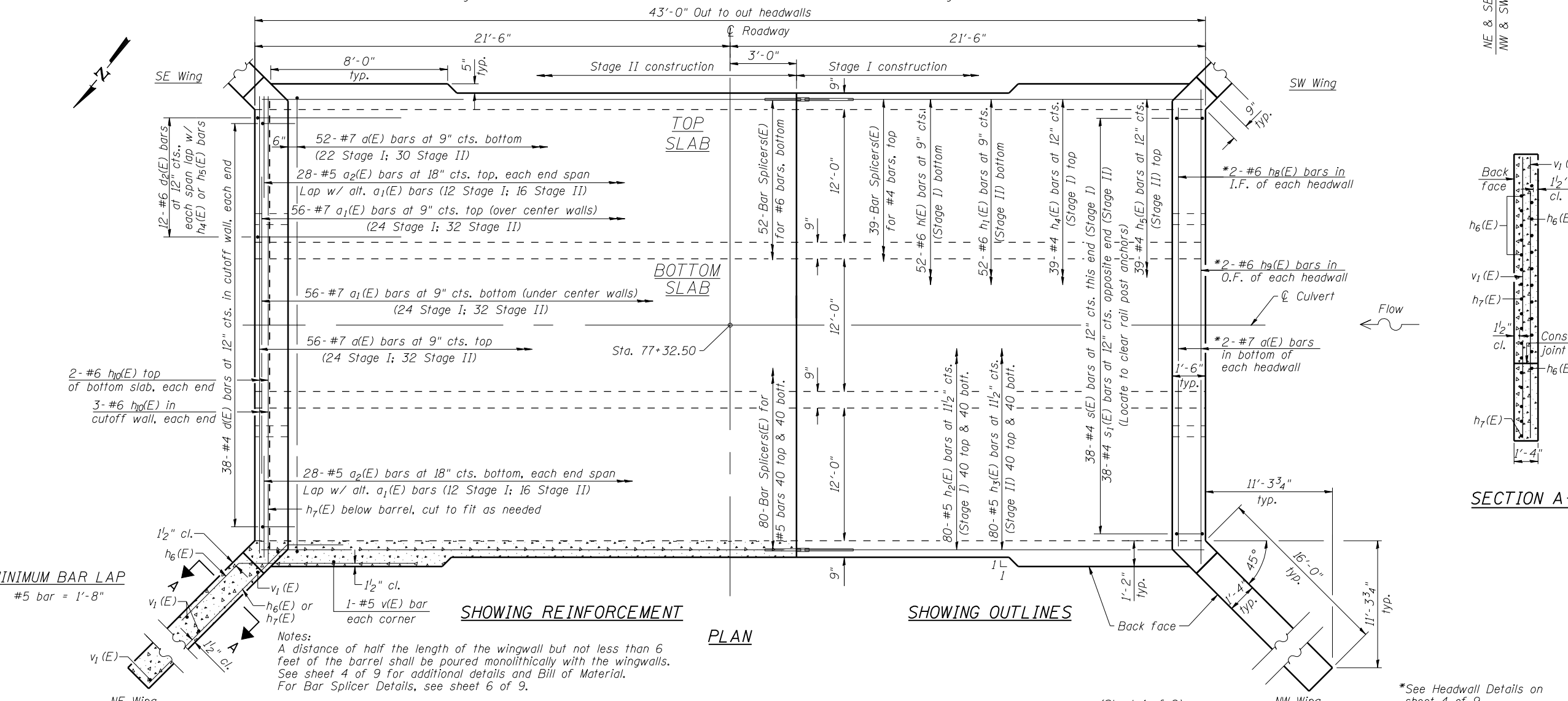
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	36	23
CONTRACT NO. 78210				

ILLINOIS FED. AID PROJECT



HALF LONGITUDINAL SECTION
Showing bars in center walls

HALF ELEVATION
Showing bars in outside walls



SHOWING REINFORCEMENT

SHOWING OUTLINES

PLAN

SECTION A-A

MINIMUM BAR LAP
#5 bar = 1'-8"

Notes:
A distance of half the length of the wingwall but not less than 6 feet of the barrel shall be poured monolithically with the wingwalls.
See sheet 4 of 9 for additional details and Bill of Material.
For Bar Splicer Details, see sheet 6 of 9.

(Sheet 1 of 2)

*See Headwall Details on sheet 4 of 9.



USER NAME = has	DESIGNED - JTS 01/12	REVISED -
ESCA PROJECT NO. 988.10	CHECKED - JAF/RDP 02/12	REVISED -
PLOT SCALE = 0.2" = 1' / IN.	DRAWN - HAS 02/12	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

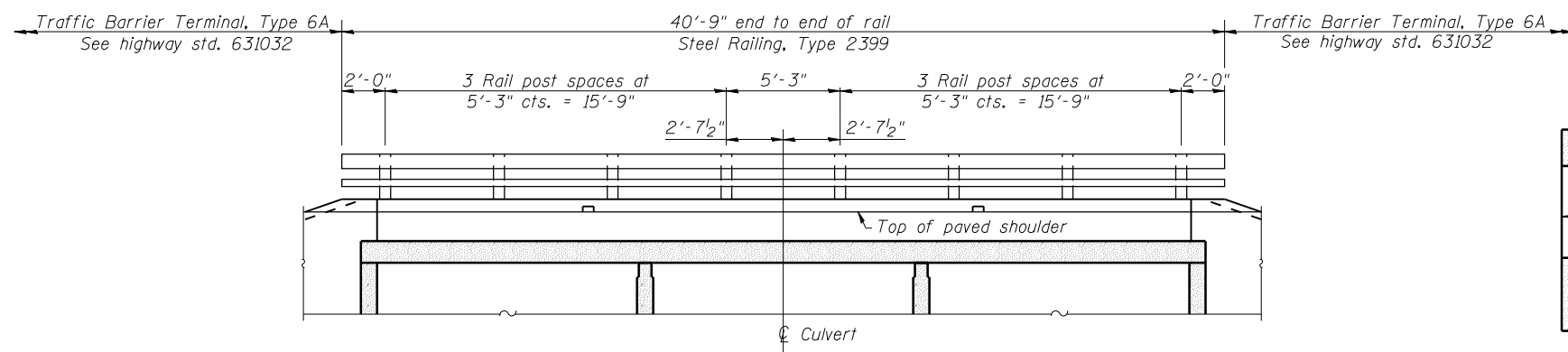
BOX CULVERT DETAILS
STRUCTURE NO. 041-2021

SHEET NO. 3 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	36	24
CONTRACT NO. 78210			ILLINOIS FED. AID PROJECT	

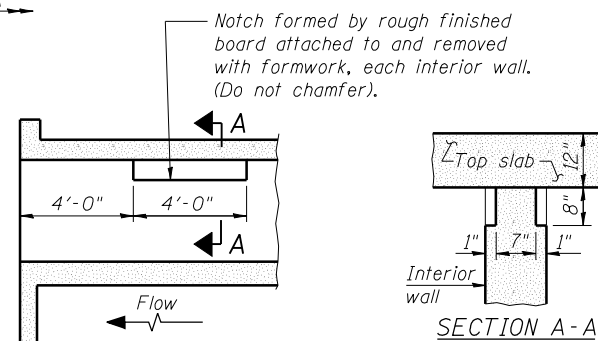
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	112	#7	40'-5"	
a1(E)	112	#7	26'-1"	
a2(E)	112	#5	9'-0"	
d(E)	76	#4	4'-5"	
d1(E)	48	#6	3'-4"	
d2(E)	72	#6	7'-6"	
h(E)	52	#6	18'-2"	
h1(E)	52	#6	24'-2"	
h2(E)	132	#5	18'-2"	
h3(E)	132	#5	24'-2"	
h4(E)	39	#4	18'-2"	
h5(E)	39	#4	24'-2"	
h6(E)	68	#9	8'-0"	
h7(E)	48	#9	19'-0"	
h8(E)	4	#6	37'-4"	
h9(E)	4	#6	39'-4"	
h10(E)	10	#6	38'-2"	
s(E)	38	#4	7'-7"	
s1(E)	38	#4	8'-1"	
v(E)	208	#5	10'-9"	
v1(E)	16	#4	14'-2"	
Concrete Box Culverts			Cu. Yd.	226.8
Reinforcement Bars, Epoxy Coated			Pound	36,660



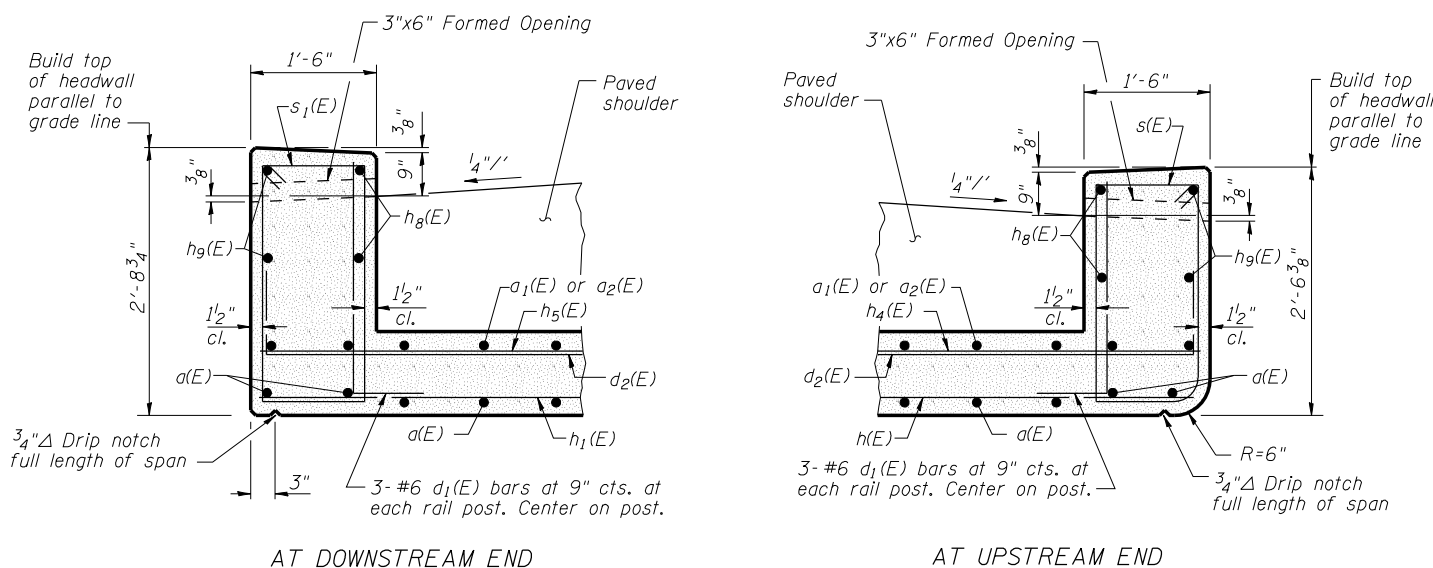
INSIDE ELEVATION OF RAILING

Note:
See sheet 5 of 9 for railing details.

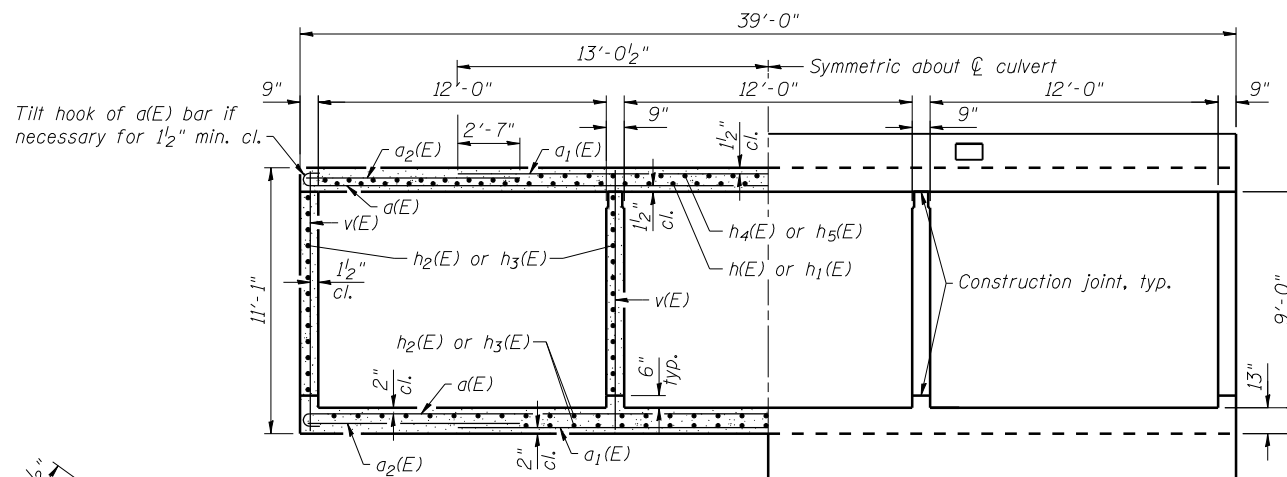


LONGITUDINAL SECTION

**PHOEBE NESTING
SITE DETAILS**
(Downstream end only)



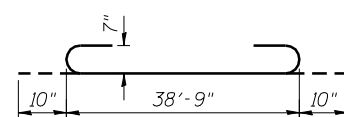
HEADWALL DETAILS



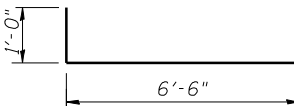
SECTION THRU BARREL

HALF SECTION THRU BARREL

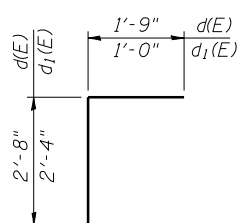
HALF END ELEVATION



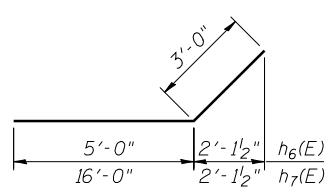
BAR a(E)



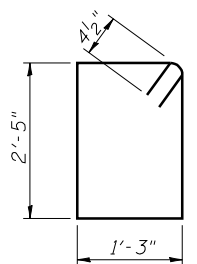
BAR d2(E)



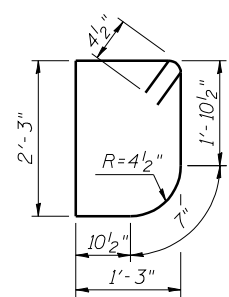
BARS d(E) & d1(E)



BARS h6(E) & h7(E)



BAR s1(E)



BAR s(E)

(Sheet 2 of 2)

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USER NAME = has	DESIGNED - JTS 01/12	REVISED -
ESCA PROJECT NO. 988.10	CHECKED - JAF/RDP 02/12	REVISED -
PLOT SCALE = 1/2" = 1' / IN.	DRAWN - HAS 02/12	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

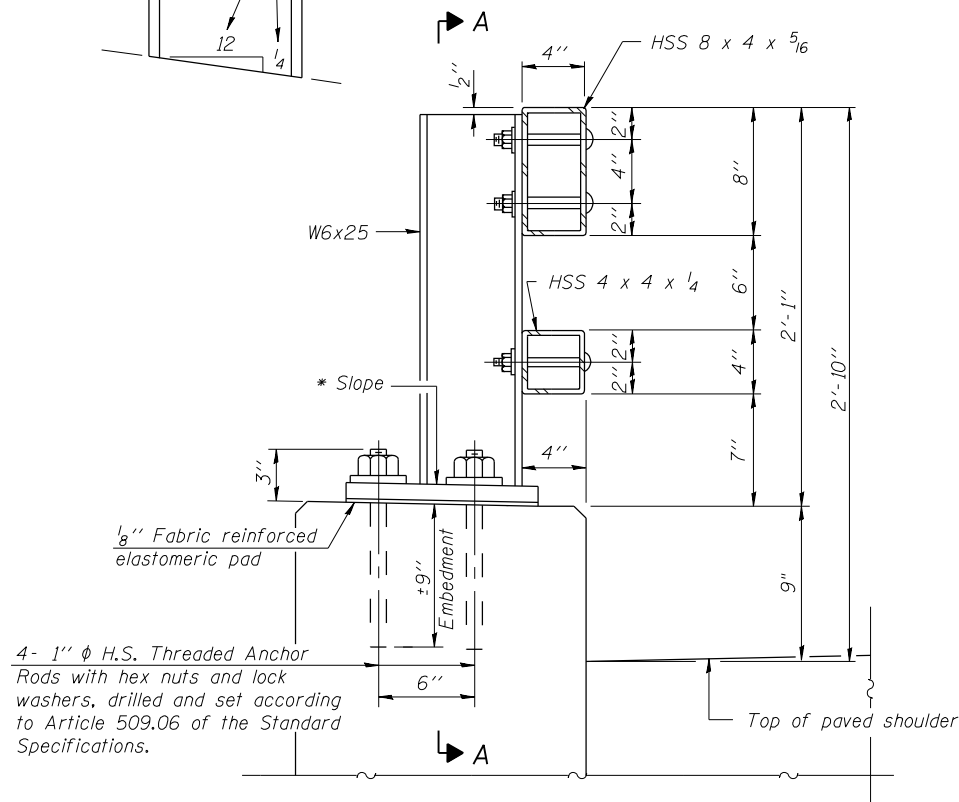
**BOX CULVERT DETAILS
STRUCTURE NO. 041-2021**

SHEET NO. 4 OF 9 SHEETS

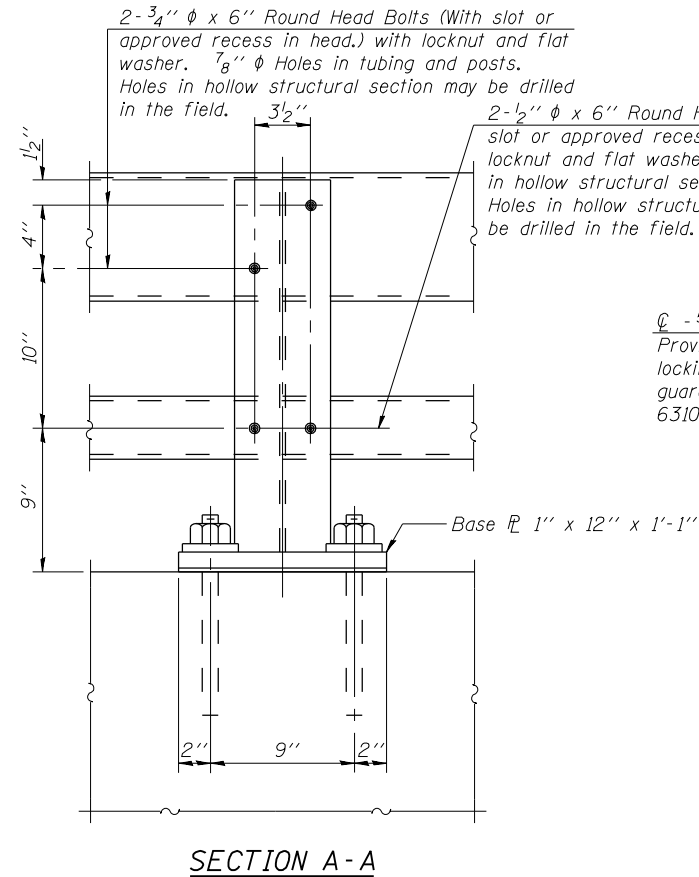
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	36	25
CONTRACT NO. 78210				

ILLINOIS FED. AID PROJECT AID

* Cut bottom end of post to curb slope.

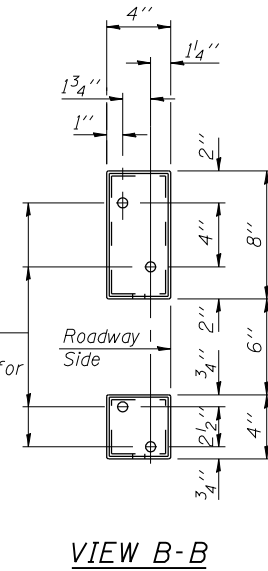


SECTION AT RAIL POST

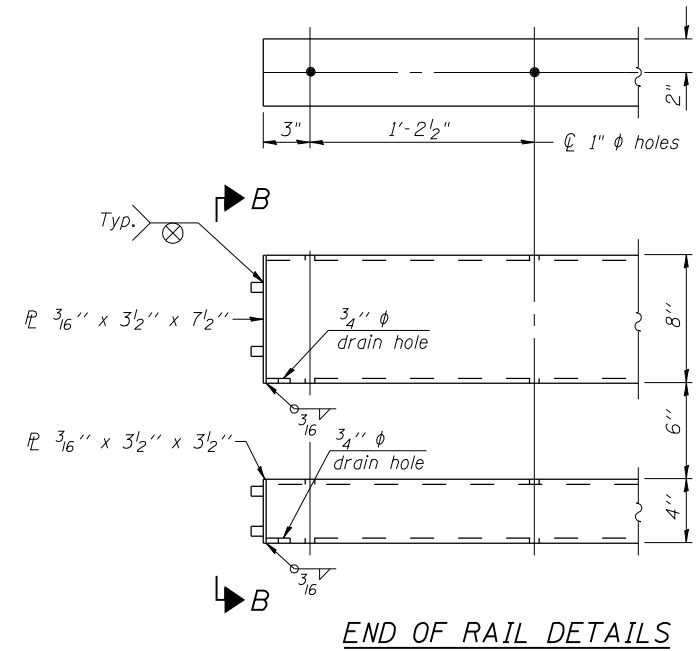


SECTION A-A

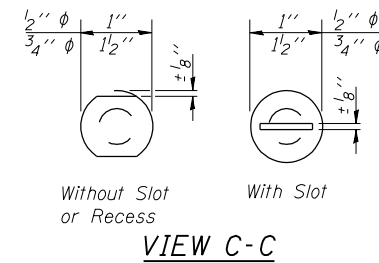
Provide 4 - 5/8" reduced base welded studs. Provide 4 - 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032.



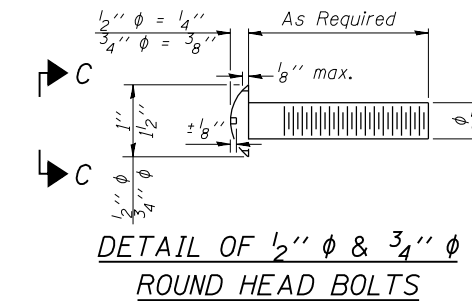
VIEW B-B



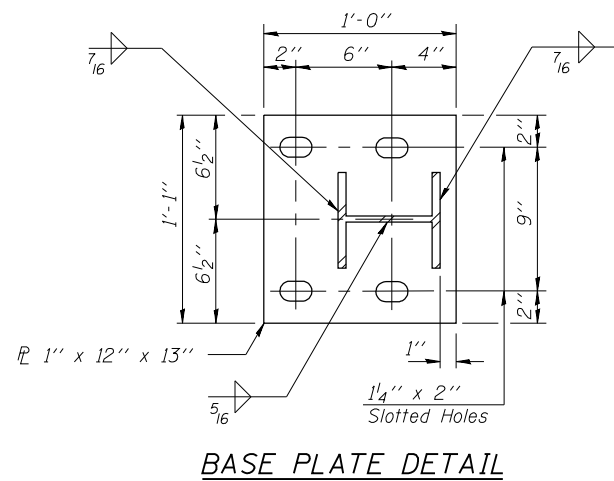
END OF RAIL DETAILS



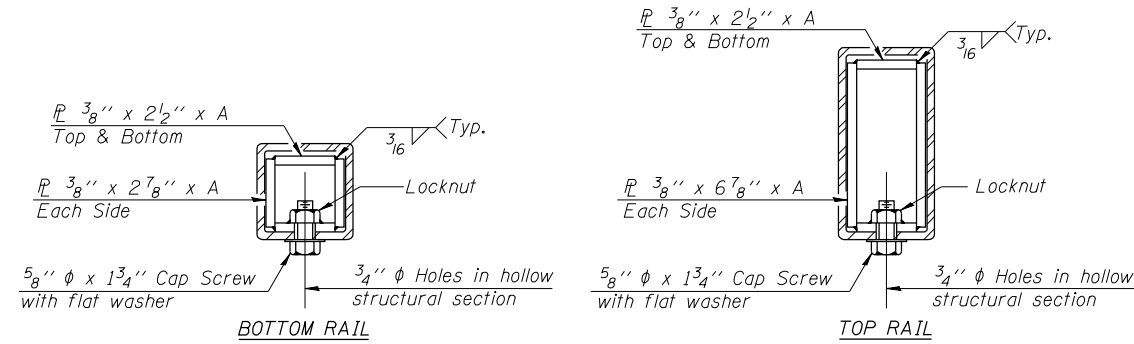
VIEW C-C



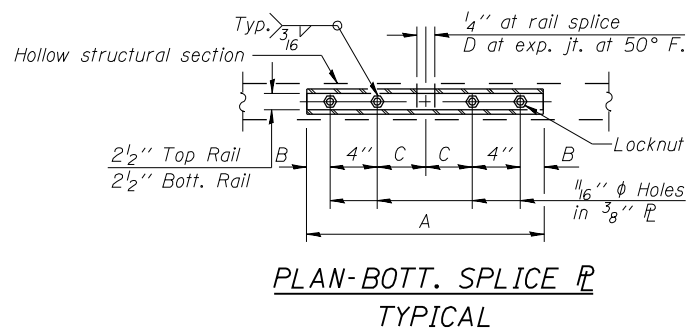
DETAIL OF 1/2" & 3/4" ROUND HEAD BOLTS



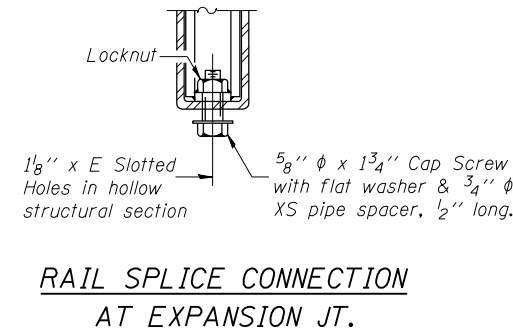
BASE PLATE DETAIL



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
 Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.
 Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	82



USER NAME = has
 ESCA PROJECT NO. 988.10
 PLOT SCALE = 1/8" = 1' / IN.
 PLOT DATE = 6/4/2014 8:11:44 AM

DESIGNED - JTS 01/12
 CHECKED - JAF/RDP 02/12
 DRAWN - DWH 02/12
 CHECKED - JTS 03/12

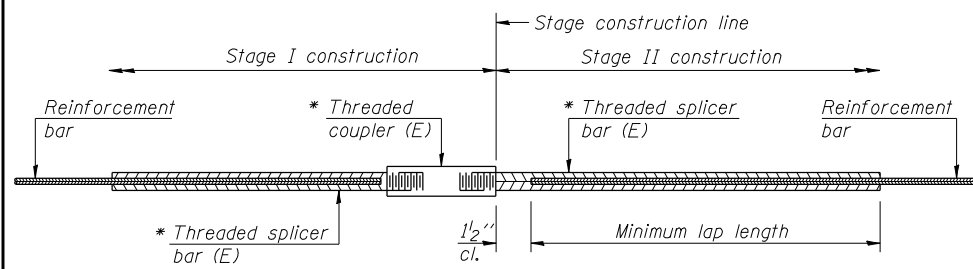
REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE 2399
 STRUCTURE NO. 041-2021

SHEET NO. 5 OF 9 SHEETS

F.A.P. SECTION COUNTY TOTAL SHEETS SHEET NO.
 RTE. 849 113B-1 JEFFERSON 36 26
 CONTRACT NO. 78210
 ILLINOIS FED. AID PROJECT



STANDARD BAR SPLICER ASSEMBLY

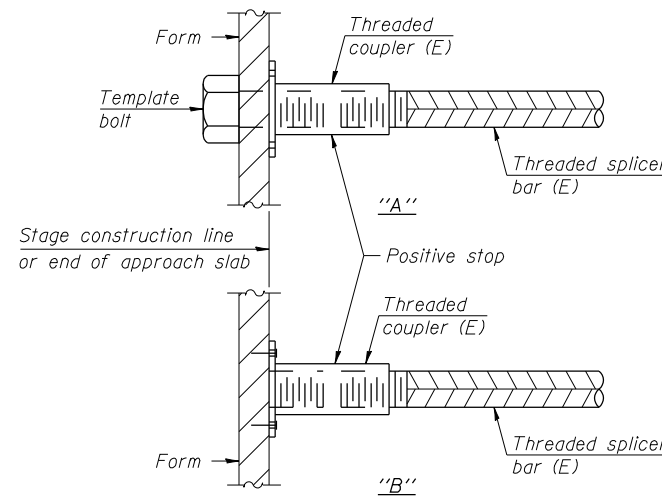
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

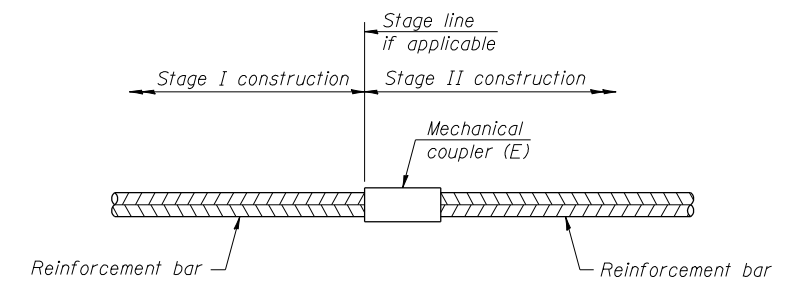
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Top Slab, Top	#4	39	4
Top Slab, Bottom	#6	52	3
Bottom Slab, Top	#5	40	4
Bottom Slab, Bottom	#5	40	3
Walls	#5	52	4



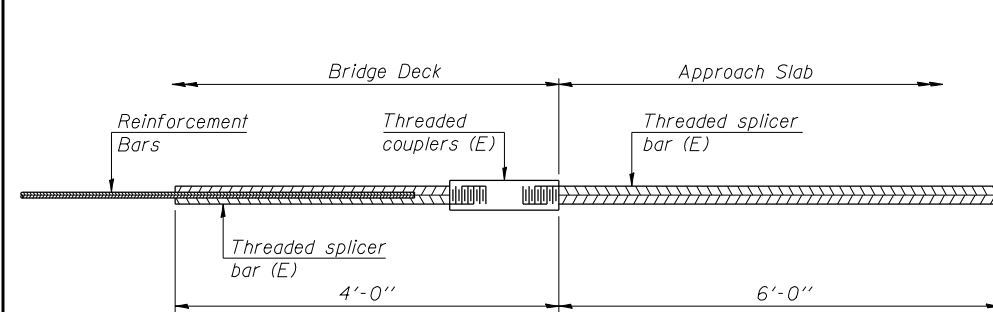
INSTALLATION AND SETTING METHODS

"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.



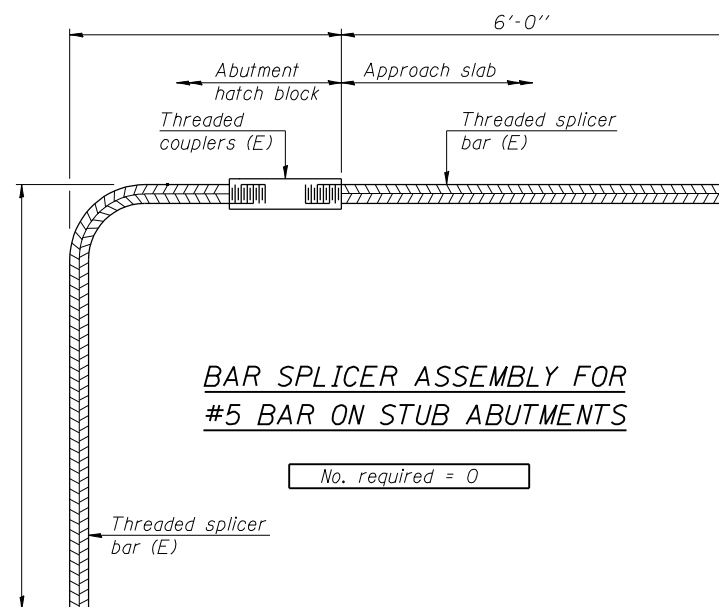
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
NA		



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

No. required = 0



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

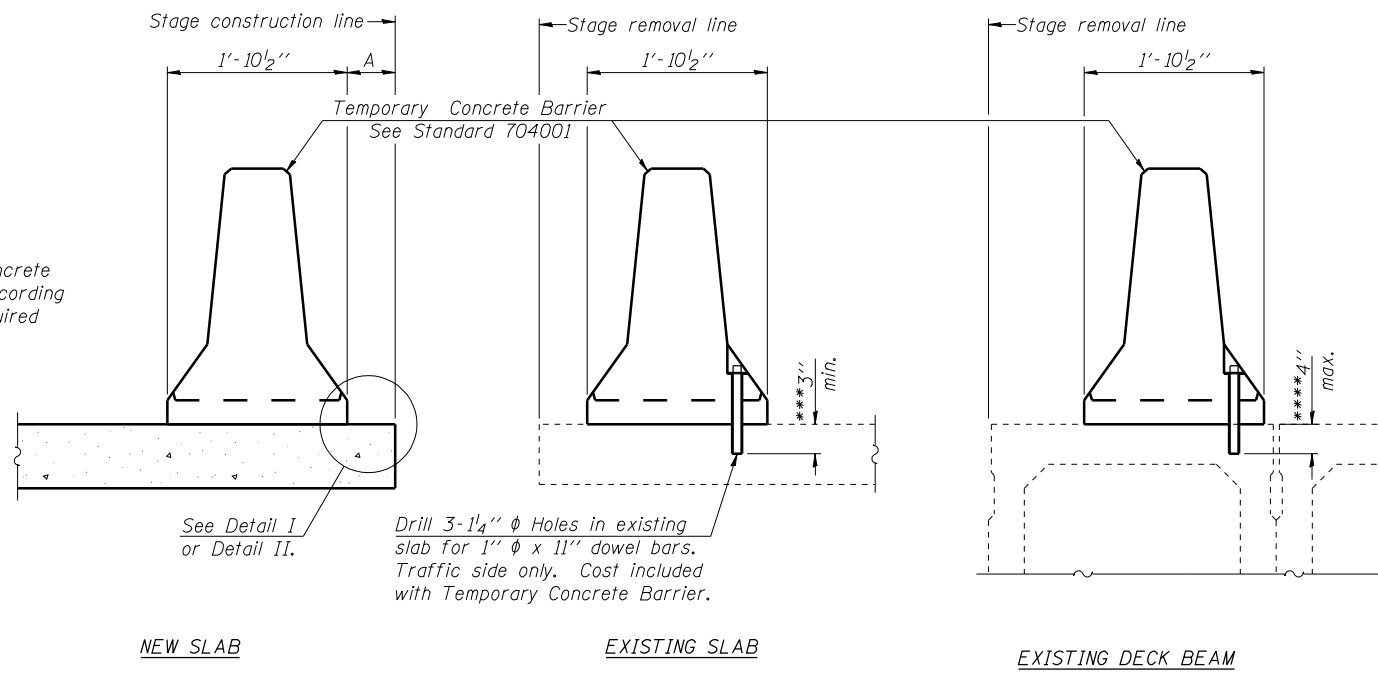
No. required = 0

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 1-27-12

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 DECK BEAM

NOTES

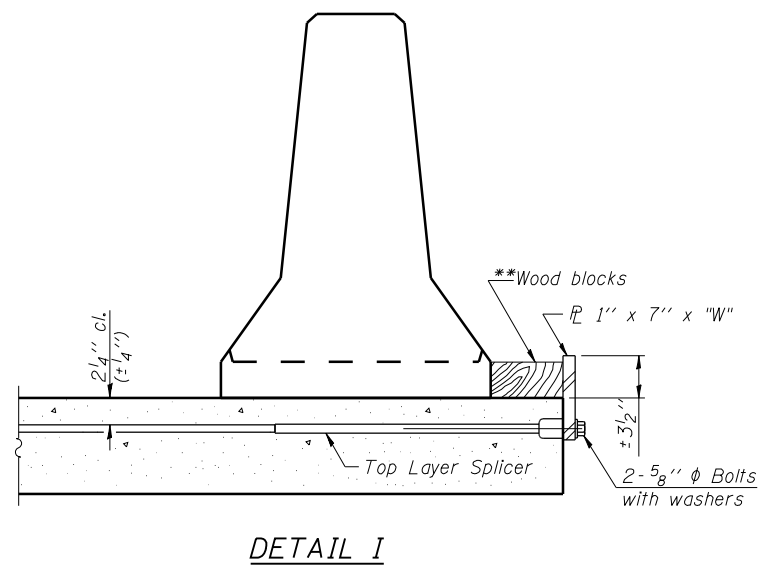
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel PL 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 C of each barrier panel.

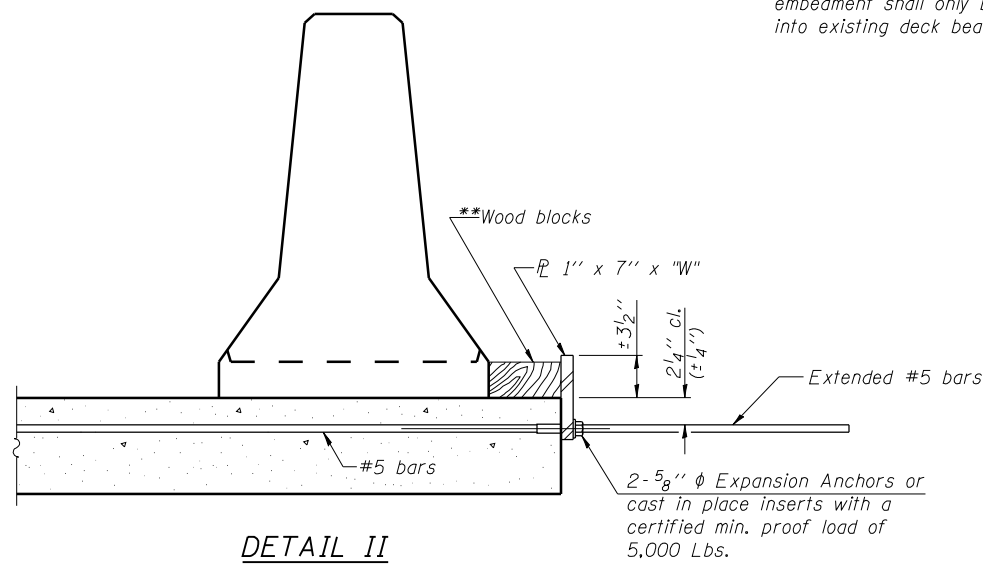
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** 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.

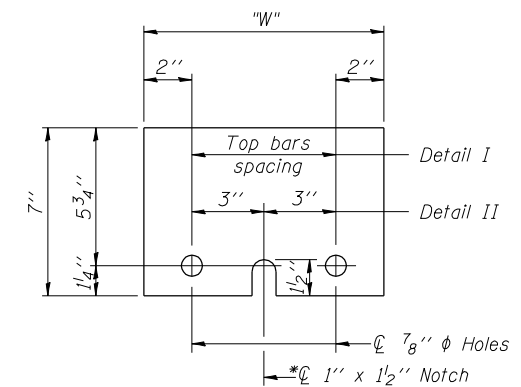
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 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"

PRINT DRIVER = L:\05-EB\B\A\1
SCALE NAME = PLOT
FILE NAME = C:\PLOT\2014\07-15\2014-07-15.dwg

R-27

7-1-10



USER NAME = has	DESIGNED - JTS 01/12	REVISED -
ESCA PROJECT NO. 988.10	CHECKED - JAF/RDP 02/12	REVISED -
PLOT SCALE = 0:2' = 1" / IN.	DRAWN - HAS 02/12	REVISED -
PLOT DATE = 6/4/2014 8:11:57 AM	CHECKED - JTS 03/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 041-2021**

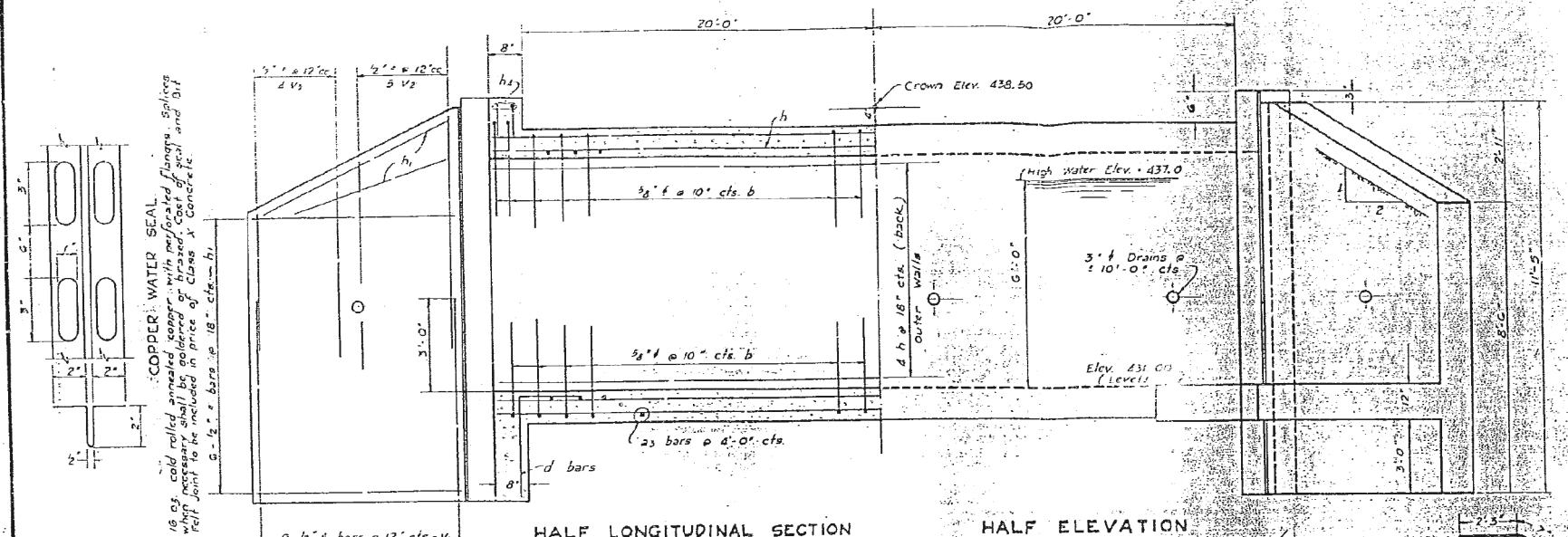
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	36	28
CONTRACT NO. 78210			ILLINOIS FED. AID PROJECT	

SHEET NO. 7 OF 9 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROAD DISTRICT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
142	113B-1	Jefferson	3	1

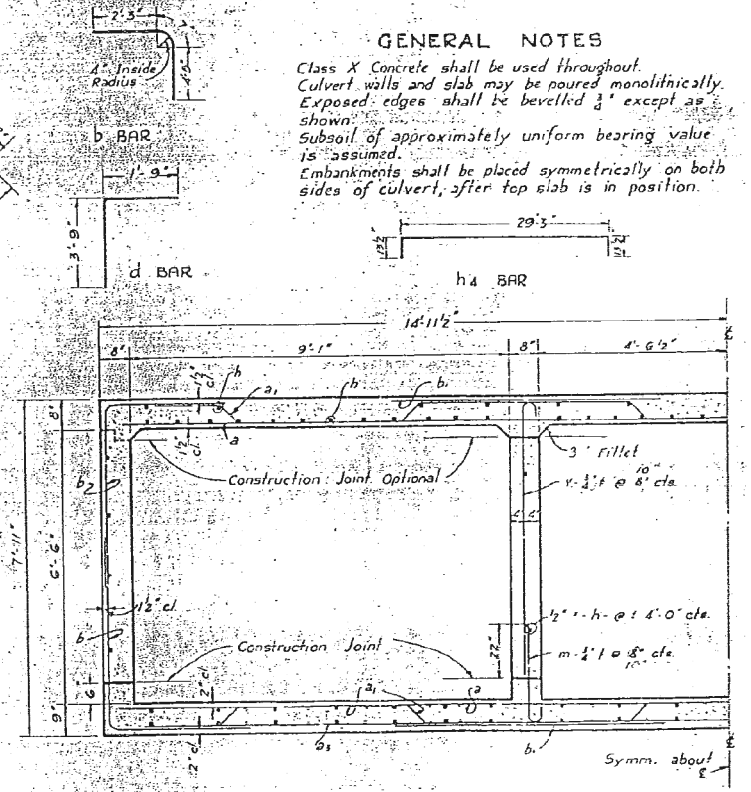
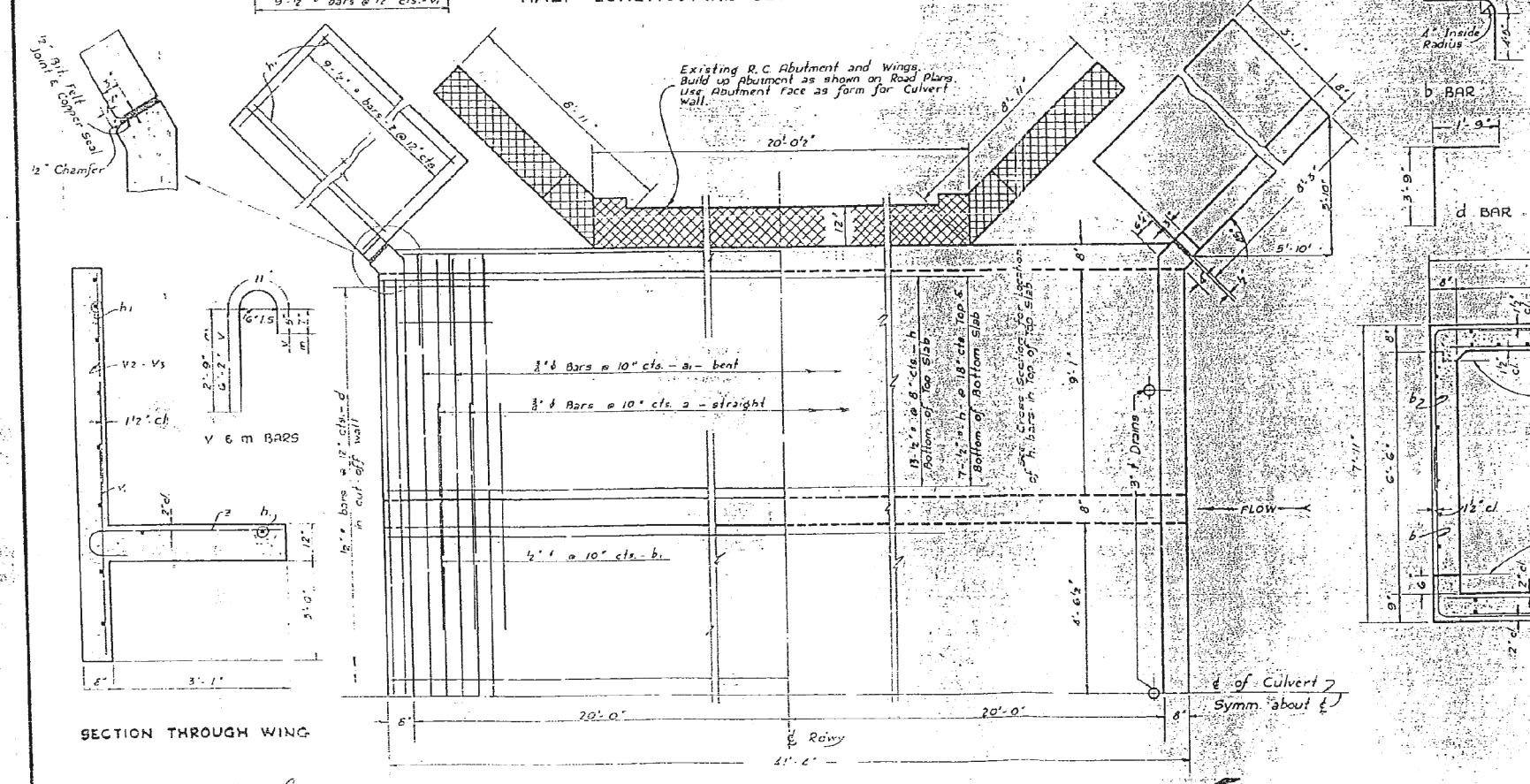
3. M - TOP OF LEARNING R/W MARKED - 10' BY STA 78.00
ELEV. 437.43
EXISTING STRUCTURE - R.C. TRUSS GIRDERS - 30' SPAN - 18' RDWY.
BUILT 1917 ON R.C. ABUTMENTS
CONTRACTOR FOR SEC. 113B-1 SHALL REMOVE SUPERSTRUCTURE
AND WINGS TO A POINT 6" BELOW SURFACE.



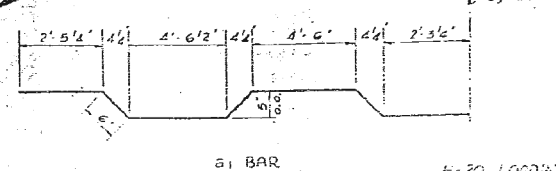
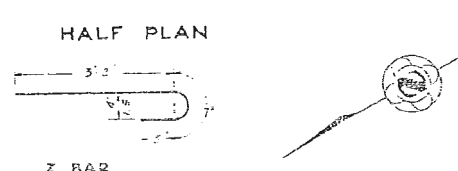
BAR	No.	SIZE	LENGTH	BAR	No.	SIZE	LENGTH
a	100	3/4"	29'-6"	v	100	3/4"	7'-6"
a ₁	100	"	30'-6"	v ₁	36	1/2"	6'-9"
a ₂	30	1/2"	6'-0"	v ₂	20	"	6'-0"
				v ₃	16	"	4'-6"
b	200	3/4"	7'-3"				
b ₁	200	1/2"	6'-0"	m	100	3/4"	4'-3"
d	58	1/2"	5'-6"	z	36	1/2"	4'-3"
h	210	1/2"	21'-3"				
h ₁	40	"	8'-0"				
h ₂	4	3/4"	31'-6"				

Class X Concrete	Cu. Yds.	109.1
Reinforcement Bars	Lbs.	18,240

GENERAL NOTES
Class X Concrete shall be used throughout.
Culvert walls and slab may be poured monolithically.
Exposed edges shall be bevelled 3" except as shown.
Subsoil of approximately uniform bearing value is assumed.
Embankments shall be placed symmetrically on both sides of culvert, after top slab is in position.



COMPUTED: *Alan Schilling*
CHECKED: *ROMU*
DRAWN: *ACB*
CHECKED: *ARM*
ASSEMBLED: *...*
ELECTRICAL: *...*
PASSED: *...*
APPROVED: *...*



S. B. 1 RTE. 142 - SEC. 113 B-1
JEFFERSON COUNTY
STA. 77 + 32.5

FILE NAME = D978210-sht-existingstructure.dgn
MODEL = Default
PLOT DRIVER = IODT_PDF.plt



USER NAME = twalker	DESIGNED -	REVISED -
FILE NAME = D978210-sht-existingstructure.dgn	DRAWN -	REVISED -
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PLOT DATE = 5/29/2014	DATE -	REVISED -

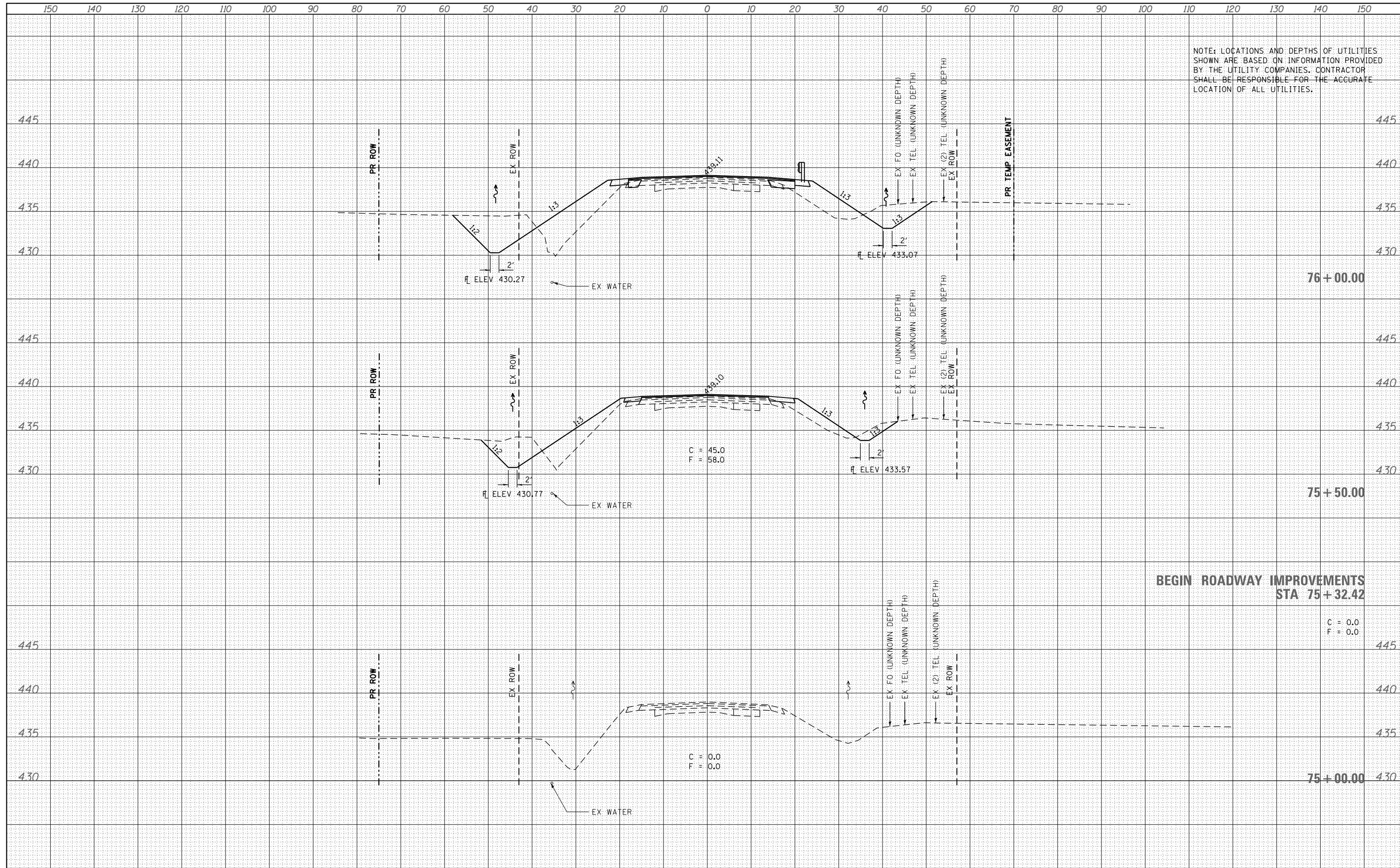
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS FOR INFORMATION ONLY	
SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	36	31
CONTRACT NO. 78210				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



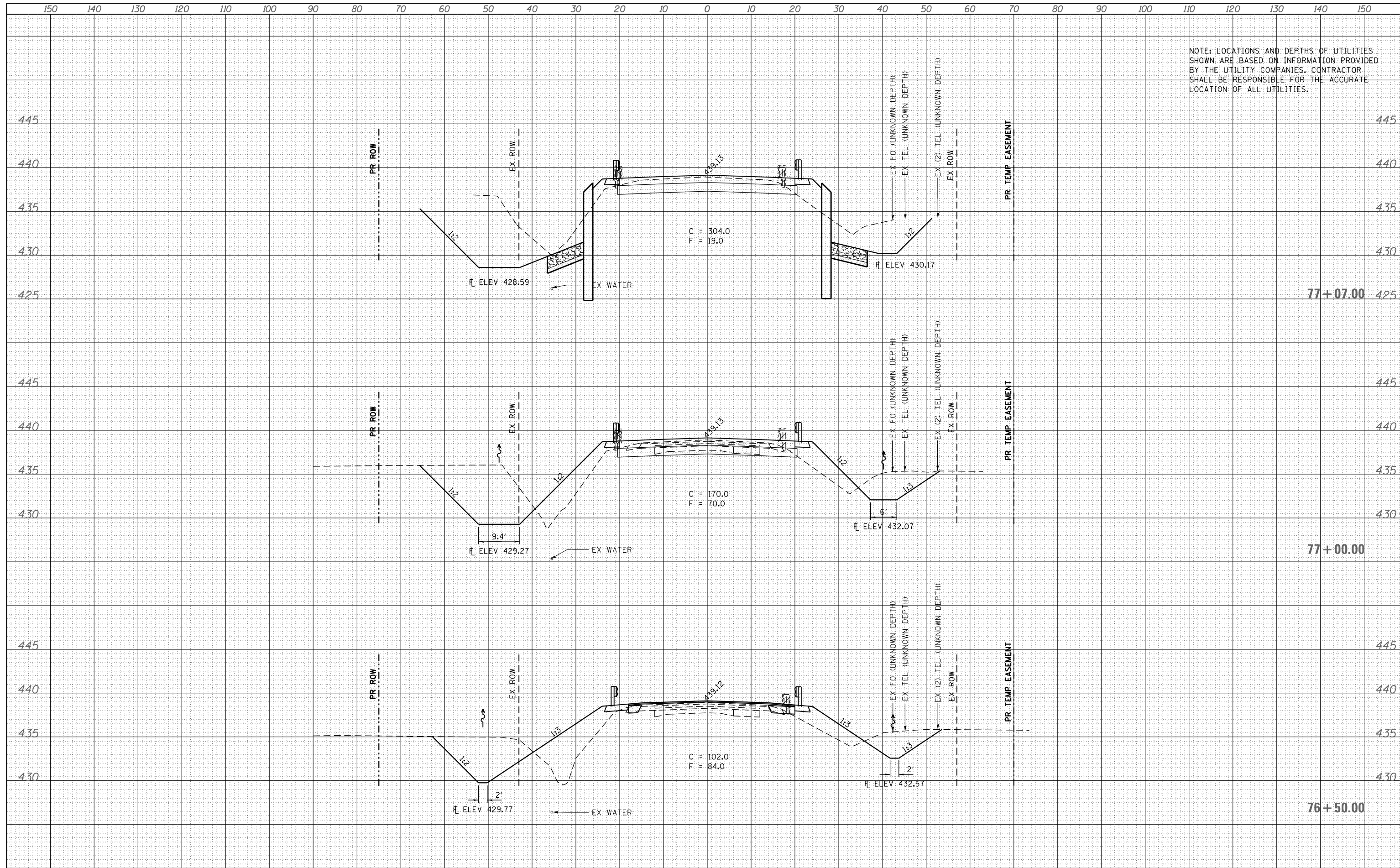
NOTE: LOCATIONS AND DEPTHS OF UTILITIES SHOWN ARE BASED ON INFORMATION PROVIDED BY THE UTILITY COMPANIES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE LOCATION OF ALL UTILITIES.

FILE NAME = D978210-sht-xxsht.dgn	USER NAME = twalker	DESIGNED - MCV	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 142 CROSS SECTIONS SCALE: 10H : 5V SHEET 1 OF 5 SHEETS STA. 75+00.00 TO STA. 76+00.00	F.A.P. RTE. 849	SECTION 113B-1	COUNTY	TOTAL SHEETS 36	SHEET NO. 32
MODELNAME\$	PLOT SCALE = 20.0000' / in.	CHECKED - MTM	REVISIED -		CONTRACT NO. 78210				
	PLOT DATE = 5/29/2014	DATE - 4/25/2014	REVISIED -		ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

NOTE: LOCATIONS AND DEPTHS OF UTILITIES SHOWN ARE BASED ON INFORMATION PROVIDED BY THE UTILITY COMPANIES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE LOCATION OF ALL UTILITIES.

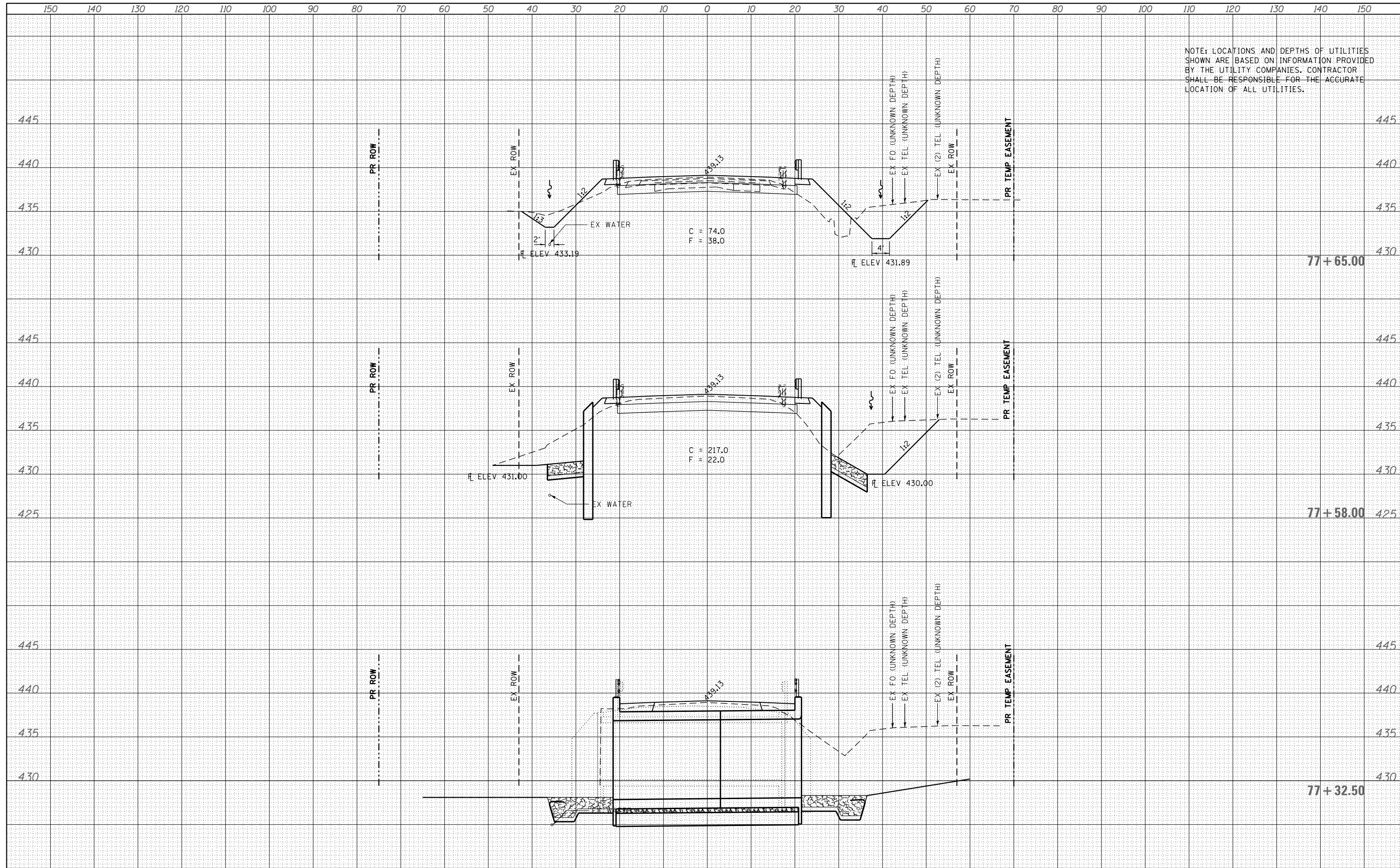


FILE NAME =	USER NAME = twalker	DESIGNED - MCV	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 142 CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D978210-sht-xxsht.dgn		DRAWN - CMM	REVISED -			849	113B-1	JEFFERSON	36	33
PLOT SCALE = 20.0000' / in.		CHECKED - MTM	REVISED -			CONTRACT NO. 78210				
DATE = 5/29/2014		DATE - 4/25/2014	REVISED -			ILLINOIS FED. AID PROJECT				
SCALE: 10H : 5V				SHEET 2 OF 5 SHEETS		STA. 76+50.00 TO STA. 77+07.00				

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

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

NOTE: LOCATIONS AND DEPTHS OF UTILITIES SHOWN ARE BASED ON INFORMATION PROVIDED BY THE UTILITY COMPANIES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE LOCATION OF ALL UTILITIES.



FILE NAME =	USER NAME = twalker	DESIGNED - MCV	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ILLINOIS ROUTE 142 CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CHECKED - MTM	REVISED -		CONTRACT NO. 78210							
MODELNAME		DATE - 4/25/2014	REVISED -		SCALE: 10H : 5V	SHEET 3	OF 5 SHEETS	STA. 77+32.50	TO STA. 77+65.00	ILLINOIS FED. AID PROJECT		

NOTE: LOCATIONS AND DEPTHS OF UTILITIES SHOWN ARE BASED ON INFORMATION PROVIDED BY THE UTILITY COMPANIES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE LOCATION OF ALL UTILITIES.

**END ROADWAY IMPROVEMENTS
STA 79+28.71**

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F = 0.0

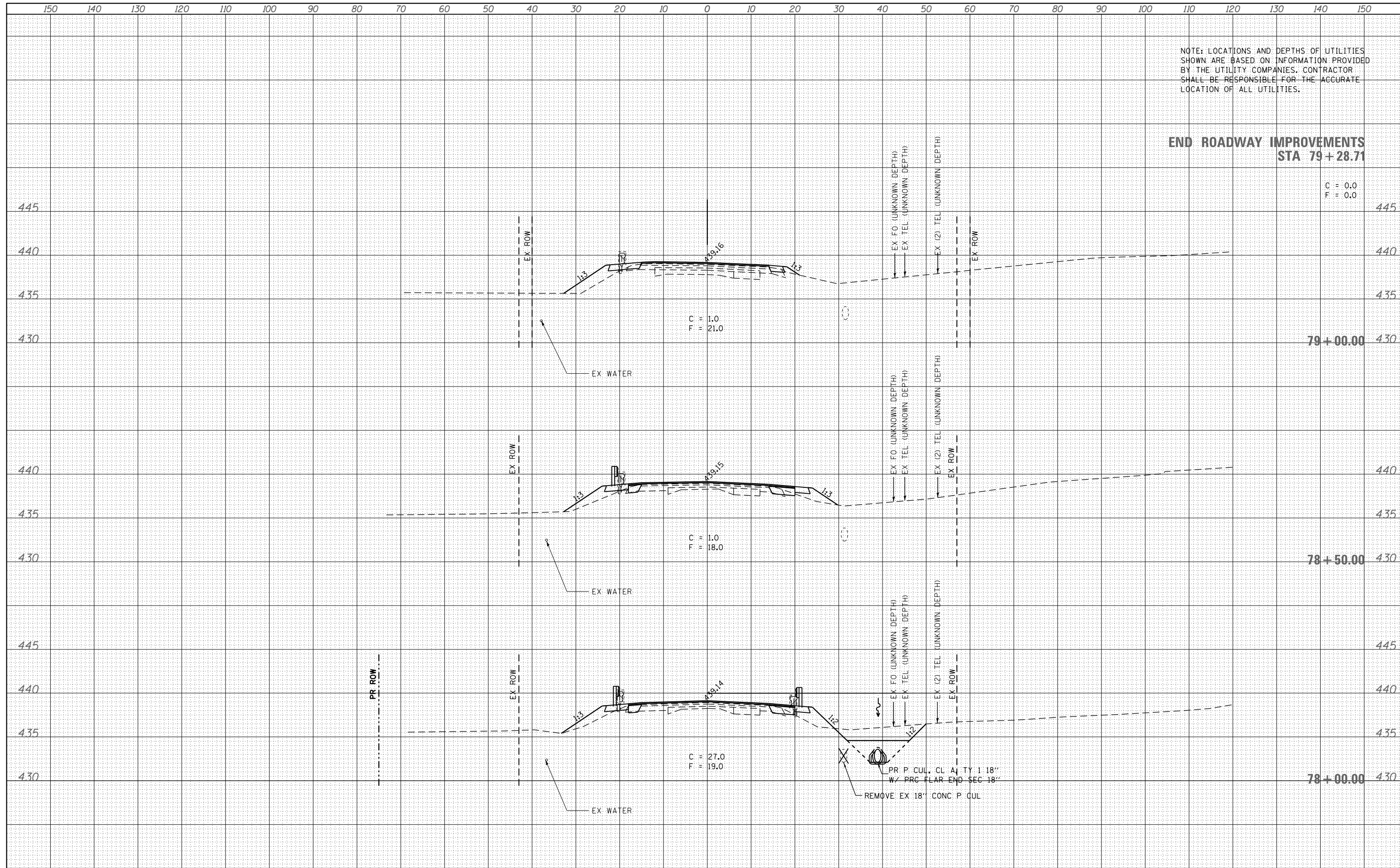
79+00.00

78+50.00

78+00.00

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 = D978210-sht-xxsht.dgn
MODELNAME

USER NAME = twalker
DESIGNED - MCV
DRAWN - CMM
CHECKED - MTM
DATE - 4/25/2014
PLOT SCALE = 20.0000' / in.
PLOT DATE = 5/29/2014

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ILLINOIS ROUTE 142 CROSS SECTIONS

SCALE: 10H : 5V SHEET 4 OF 5 SHEETS STA. 78+00.00 TO STA. 79+28.71

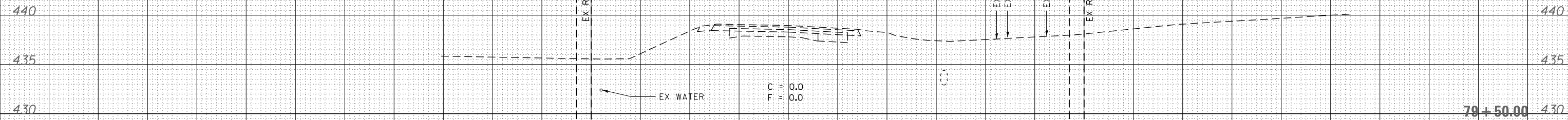
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
849	113B-1	JEFFERSON	36	35
CONTRACT NO. 78210				
ILLINOIS FED. AID PROJECT				

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

NOTE: LOCATIONS AND DEPTHS OF UTILITIES SHOWN ARE BASED ON INFORMATION PROVIDED BY THE UTILITY COMPANIES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE LOCATION OF ALL UTILITIES.

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

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



FILE NAME - D978210-sht-xssht.dgn	USER NAME = twalker	DESIGNED - MCV	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">ILLINOIS ROUTE 142 CROSS SECTIONS</p> <p>SCALE: 10H : 5V SHEET 5 OF 5 SHEETS STA. 79+50.00 TO STA. 79+50.00</p>	F.A.P. RTE. 849	SECTION 113B-1	COUNTY JEFFERSON	TOTAL SHEETS 36	SHEET NO. 36
DESIGNED - MCV	DRAWN - CMM	REVISIED -			CONTRACT NO. 78210				
PLOT SCALE = 20.0000' / in.	CHECKED - MTM	REVISIED -			ILLINOIS FED. AID PROJECT				
PLOT DATE = 5/29/2014	DATE - 4/25/2014	REVISIED -							