D098854-sht-cover01.dgn 1/4/2011 11:46:45 PM HAS

04-29-11 LETTING ITEM 070

F.A.P. RTE.	SECTION		OU	TOTAL SHEETS	SHEET NO.
778	3B-1 & 3B-2		POPE	50	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 98854		

INDEX OF SHEETS

MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE
ON THE FOLLOWING SHEETS _____

0' 100' 200' 300' — 1"=100'
0 10' 20' 30' — 1"=10'

0' 50' 100' — 1"=50'

0' 40' 80' — 1"=40'

0' 30' 60' 90' — 1"=30'

0' 20' 40' 60' 80' 100' — 1"=20'

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

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

DISTRICT 9 NO. (618) 549-2171
PROJECT ENGINEER: DAVID PICHE
PROJECT MANAGER:
PRECINCT: GOLCONDA NO. 2
CONTRACT NO. 98854

RICHARD D. PAYNE 37421 LICENSED PROFESSIONAL ENGINEER STATE OF ILLINOIS

Richard D. Payne DATE: 12/30/10
ILLINOIS PROFESSIONAL LICENSE NO. 37421
(EXPIRATION DATE: 11-30-11)

ESCA CONSULTANTS, INC.

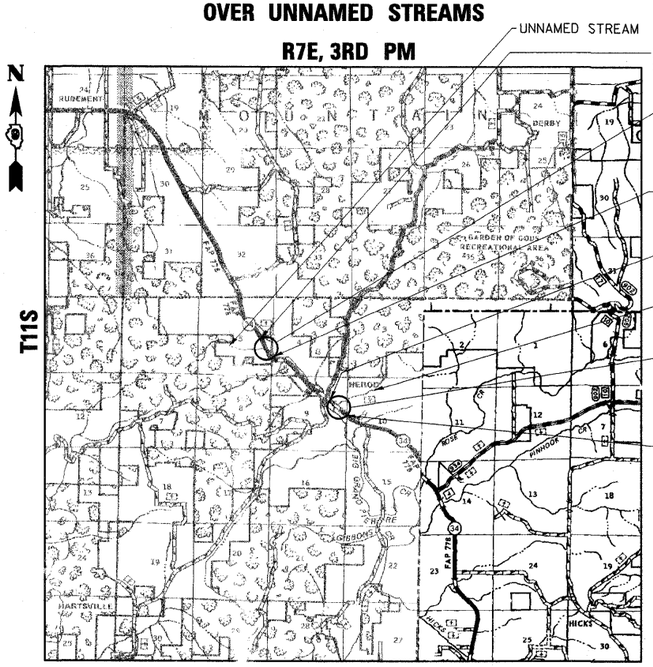
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAP ROUTE 778 (IL 34)
SECTIONS 3B-1 & 3B-2
PROJECT F-BRF-0778(007)
POPE COUNTY
C - 99 - 064 - 08

BOX CULVERT REPLACEMENTS OVER UNNAMED STREAMS

R7E, 3RD PM



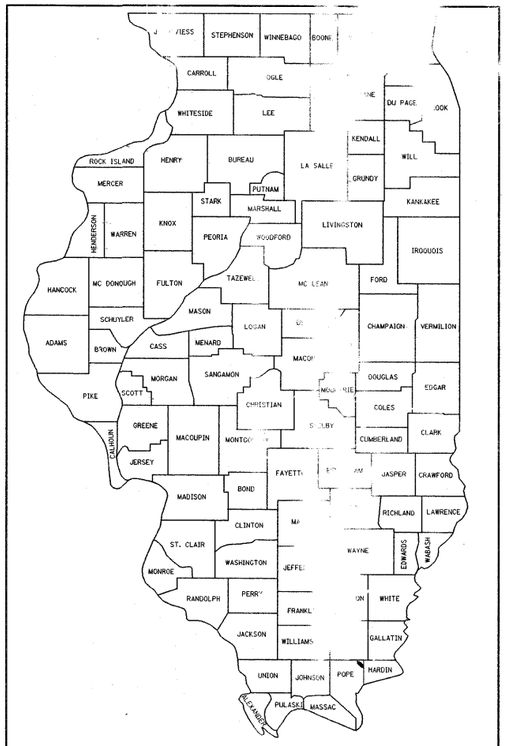
LOCATION MAP

SCALE
0 1 2 3 4 5 6 MILES
0 5000 10000 15000 20000 25000 30000 FEET

	3B-1	3B-2
GROSS LENGTH =	290 FT. = 0.055 MI.	492 FT. = 0.093 MI.
NET LENGTH =	290 FT. = 0.055 MI.	492 FT. = 0.093 MI.

DESIGN DESIGNATION N.A.

D-99-010-04



LOCATION OF SECTION INDICATED THUS: ▬▬

FUNCTIONAL CLASSIFICATION:	**MINOR ARTERIAL (NON-URBAN)**
DESIGN SPEED:	**55 mph**
POSTED SPEED:	**55 mph**
ADT:	**224 (2010)**
PV:	**83.7%**
TRUCKS:	**16.3%**
TOWNSHIP:	**COUNTY UNIT ROAD DISTRICT**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Jan 7 20 11
M Chanin
DEPUTY DIRECTOR OF HIGHWAYS REGION ENGINEER
March 25 20 11
Scott E. Stitt P.E. for
acting ENGINEER OF DESIGN AND ENVIRONMENT
March 25 20 11
Christine M. Reed for
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
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420601-05	24' (7.2 m) PCC PAVEMENT
420701-02	PAVEMENT FABRIC
515001-03	NAME PLATE FOR BRIDGES
630001-09	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-06	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
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS $\geq$ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-11	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS $\geq$ 45 MPH
701901-01	TRAFFIC CONTROL DEVICES
704001-06	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

1. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
2. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
3. 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".
4. ALL SAWCUTTING OF EXISTING PAVEMENT SHALL BE CONSIDERED INCLUDED IN THE PAY ITEMS INVOLVED. THE MINIMUM SAW DEPTH IN THE PAVEMENT SHALL BE 1½" UNLESS OTHERWISE NOTED.
5. 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.
6. 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.
7. 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.
8. 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	0.09 GAL/SQ YD
INTERMEDIATE LIFTS (FOG COAT)	0.04 GAL/SQ YD
ON AGGREGATE SURFACE	0.32 GAL/SQ YD

9. 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.
10. 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.
11. 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.
12. 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.
13. ALL OBSTRUCTIONS WHICH ARE WITHIN 30' OF THE CENTERLINE OF THE ROADWAY AND ARE NOT SHIELDED BY THE PROPOSED GUARDRAIL, SHALL BE REMOVED FROM STATION 632+00 TO 639+00 AND STATION 700+00 TO 708+00. TYPICAL OBSTRUCTIONS ARE HEADWALLS, FOUNDATIONS, ETC. WHICH PROJECT 4 IN. OR MORE ABOVE THE GROUNDLINE; AND TREES WHICH WILL MATURE TO A DIAMENTER OF 4 IN. OR GREATER.
14. 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.
15. EXISTING TRAFFIC BARRIER TERMINALS TO BE REMOVED SHALL BE PAID FOR AS GUARDRAIL REMOVAL.
16. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
17. ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.
18. 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.
19. 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.
20. VERTICAL PANELS SHOWN ON STANDARD 701321 WILL NOT BE REQUIRED ON THE STAGE II NEW BRIDGE RAIL. THE BARRIER WALL REFLECTORS SHALL BE INSTALLED PRIOR TO OPENING TO TRAFFIC.
21. 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.

COMMITMENTS

1. NONE AS OF DECEMBER 30, 2010. REFER TO COMMITMENT FILE FOR ANY COMMITMENTS AFTER THIS DATE.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREPARED BY: Joe Blankenship
DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY: James Price Emry
DISTRICT LAND ACQUISITION ENGINEER

EXAMINED BY: Carrie Nelson
DISTRICT PROGRAM DEVELOPMENT ENGINEER

EXAMINED BY:
DISTRICT OPERATIONS ENGINEER

EXAMINED BY:
DISTRICT CONSTRUCTION ENGINEER

EXAMINED BY: Bruce W Stubles
DISTRICT MATERIALS ENGINEER

EXAMINED BY:
DISTRICT PROJECT IMPLEMENTATION ENGINEER

EXAMINED BY:
ASSISTANT REGIONAL ENGINEER

APPROVED BY:
DEPUTY DIRECTOR OF HIGHWAYS, REGIONAL ENGINEER

Jan 7 20 11
DATE

FILE NAME = D998854-sht-gennote51.dgn	USER NAME = HAS	DESIGNED - MTD	REVISED -	
		DRAWN - DWH/HAS	REVISED -	
	PLOT SCALE = 0.0833 ' / IN.	CHECKED - RDP	REVISED -	
	PLOT DATE = 12/27/2010 11:08:12 PM	DATE - 12/10	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND STANDARDS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1 & 3B-2	POPE	50	2
		CONTRACT NO. 98854		
	FED. ROAD DIST. NO.	ILLINOIS	PROJECT	

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	UNIT	80% FEDERAL 20% STATE TOTAL	HBP(BRF) L1CE CONSTRUCTION TYPE CODE 0011 SN 076-2007	STP(F) L24E CONSTRUCTION TYPE CODE 0040 SN 076-2006
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	134	134	
	20200100	EARTH EXCAVATION	CU YD	660	290	370
	20400800	FURNISHED EXCAVATION	CU YD	100		100
	20700220	POROUS GRANULAR EMBANKMENT	CU YD	473	190	283
*	25000210	SEEDING, CLASS 2A	ACRE	0.5	0.2	0.3
*	25000350	SEEDING, CLASS 7	ACRE	0.5	0.2	0.3
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	18	27
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	18	27
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	18	27
*	25000700	AGRICULTURAL GROUND LIMESTONE	TON	1	0.4	0.6
*	25100115	MULCH, METHOD 2	ACRE	1	0.4	0.6
*	25100630	EROSION CONTROL BLANKET	SQ YD	100	100	
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	40	60
	28000305	TEMPORARY DITCH CHECKS	FOOT	24	24	
	28000400	PERIMETER EROSION BARRIER	FOOT	1400	555	845
	28100109	STONE RIPRAP, CLASS A5	SQ YD	246	114	132
	28200200	FILTER FABRIC	SQ YD	246	114	132
	35650500	BASE COURSE WIDENING 10"	SQ YD	500	237	263
	40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	5	2.5	2.5
	40800010	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	3		3
	40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	4		4
	42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	300	140	160
	42001200	PAVEMENT FABRIC	SQ YD	300	140	160
	44000100	PAVEMENT REMOVAL	SQ YD	270	89	181
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	180		180
	48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	480	159	321
	50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1
	50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1	1	
	50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	3		3
	50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	158	74	84
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	37240	16340	20900
	50800515	BAR SPLICERS	EACH	249	110	139
	50900200	STEEL RAILING, TYPE 2399	FOOT	97	44	53
	51500100	NAME PLATES	EACH	2	1	1
	54003000	CONCRETE BOX CULVERTS	CU YD	206.0	84.7	121.3
*	63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	400	125	275

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	UNIT	80% FEDERAL 20% STATE TOTAL	HBP(BRF) L1CE CONSTRUCTION TYPE CODE 0011 SN 076-2007	STP(F) L24E CONSTRUCTION TYPE CODE 0040 SN 076-2006
*	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	6	3	3
*	X6310088	TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)	EACH	1	1	
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	6	2	4
	63200310	GUARDRAIL REMOVAL	FOOT	860	255	605
	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	16	8	8
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	2.5	2.5
	67100100	MOBILIZATION	L SUM	1	0.5	0.5
	70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	2	1	1
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.5	0.5
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	12	6	6
	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1	1
	70106700	TEMPORARY RUMBLE STRIPS	EACH	12	6	6
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2	1	1
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	256	128	128
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2560	1405	1155
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	939	511	428
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	600	300	300
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	475	175	300
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2560	1405	1155
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2	1	1
*	78100300	REPLACEMENT REFLECTOR	EACH	14	7	7
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	12	5	7
*	78200520	BARRIER WALL MARKERS, TYPE B	EACH	4	2	2
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	6	2	4
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	580	327	253
	86200300	UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	2	1	1
	X0325766	TEMPORARY SOIL RETENTION SYSTEM, (LOCATION 1)	SQ FT	280		280
	X0325767	TEMPORARY SOIL RETENTION SYSTEM, (LOCATION 2)	SQ FT	167	167	
	X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	14	7	7
	Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	2	2
*	Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1	
	Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	2	2
	Z0054505	ROCK FILL - REPLACEMENT	TON	323	151	172
*	X6310188	TRAFFIC BARRIER TERMINAL, TYPE 6A (MODIFIED)	EACH	1		1

* SPECIALTY ITEM

FILE NAME = D998854-sht-soq51.dgn	USER NAME = HAS	DESIGNED - MTD	REVISED -
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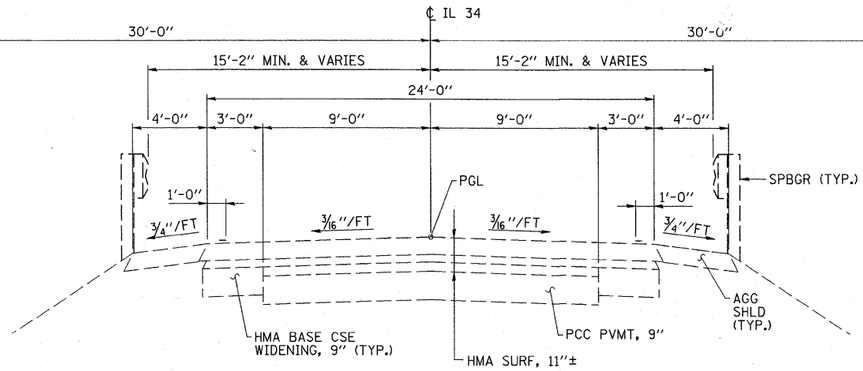
	PLOT DATE = 12/29/2010 9:26:12 AM	DATE - 12/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

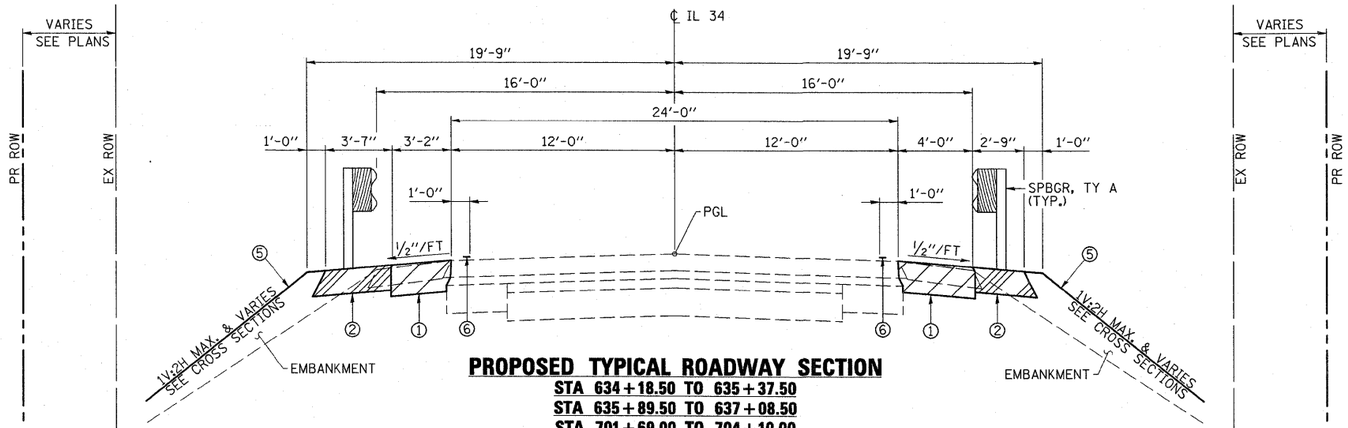
SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1 & 3B-2	PIKE	50	3
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	CONTRACT NO. 98854	



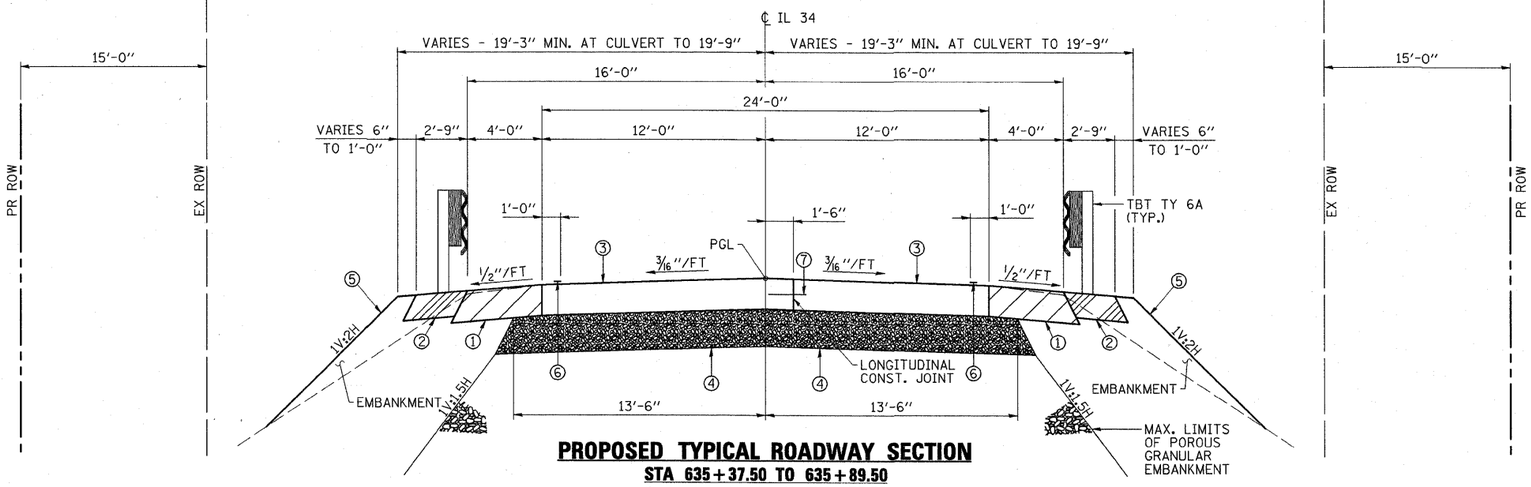
EXISTING TYPICAL ROADWAY SECTION

STA 632+00.00 TO 639+00.00
STA 700+00.00 TO 708+00.00



PROPOSED TYPICAL ROADWAY SECTION

STA 634+18.50 TO 635+37.50
STA 635+89.50 TO 637+08.50
STA 701+69.00 TO 704+10.00
STA 704+70.00 TO 706+61.00



PROPOSED TYPICAL ROADWAY SECTION

STA 635+37.50 TO 635+89.50
STA 704+10.00 TO 704+70.00

(SEE STRUCTURE PLANS FOR SECTION OVER CULVERTS)

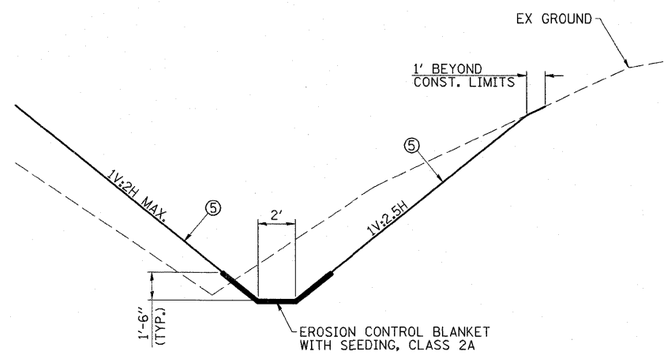
HMA MIXTURES REQUIREMENTS

LOCATION(S):	INCIDENTAL HMA SURFACING	BASE COURSE WIDENING	HMA SHOULDERS
MIXTURE USE(S):	HMA SURFACE CSE, MIX C, N90	HMA BINDER CSE, N90, IL-19.0	HMA SHOULDERS
AC/PG:	PG64-22	PG64-22	PG58-22
RAP % (MAX): ***	10	10	50
DESIGN AIR VOIDS:	4.0%, 90 GYRATION DESIGN	4.0%, 90 GYRATION DESIGN	2.0%, 30 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5 OR IL-12.5	IL-19.0	HMA SHOULDERS
FRICTION AGGREGATE:	C SURFACE	NONE	NONE

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

LEGEND

① BASE COURSE WIDENING, 10" - FOR STAGE LANES, SEE PLANS FOR LIMITS
② HMA SHOULDERS, 8"
③ PCC PAVEMENT, 10"
④ 12" OF CA 6 OR CA 10 - THICKNESS VARIES OVER CULVERTS. QUANTITY INCLUDED IN POROUS GRANULAR EMBANKMENT.
⑤ SEEDING, CLASS 2A WITH MULCH, METHOD 2
⑥ PAINT PAVEMENT MARKING, LINE 4"
⑦ TIE BAR - SEE STANDARD 420001



TYPICAL DITCH SECTION

(SEE CROSS SECTIONS FOR LOCATIONS AND ELEVATIONS)

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		DRAWN - HAS	REVISED -
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	PLOT DATE = 12/27/2010 9:51:32 AM	DATE - 12/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1 & 3B-2	POPE	50	4
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTHWORK SCHEDULE

LOCATION	SUITABLE EARTH EXCAVATION	SUITABLE EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	SUITABLE INCIDENTAL EXCAVATION MATERIAL	SUITABLE INCIDENTAL EXC. MATERIAL ADJUSTED FOR SHRINKAGE	EMBANKMENT (NOT A PAY ITEM)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
NW QUADRANT CUTS & FILLS	27	20			31	-11
NE QUADRANT CUTS & FILLS	11	8			27	-19
SW QUADRANT CUTS & FILLS	16	12			22	-10
SE QUADRANT CUTS & FILLS	13	10			9	+1
EXCAVATION FOR PGE & CAPPING	130	97			22	+75
EXCAVATION FOR RIPRAP	93•	0				0
EXCAVATION FOR CULVERT			50	37		+37
TOTALS	290	147	50	37	111	+73

NOTES:
1. EXCAVATION USED AS EMBANKMENT = (SUITABLE EARTH EXCAVATION + SUITABLE INCIDENTAL EXCAVATION)•0.75
• NOT SUITABLE AS EMBANKMENT

EROSION CONTROL SCHEDULE

LOCATION	TEMPORARY EROSION CONTROL SEEDING (2 APPLICATIONS)	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER
	POUND	EACH	FOOT
NW QUADRANT CUTS & FILLS	16	2	115
NE QUADRANT CUTS & FILLS	9		155
SW QUADRANT CUTS & FILLS	8		150
SE QUADRANT CUTS & FILLS	7		135
TOTALS	40	2	555

SEEDING SCHEDULE

LOCATION	SEEDING, CLASS 2A	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2	EROSION CONTROL BLANKET
	ACRE	ACRE	POUND	POUND	POUND	TON	ACRE	SQ YD
NW QUADRANT CUTS & FILLS	0.080	0.080	7.2	7.2	7.2	0.16	0.16	100
NE QUADRANT CUTS & FILLS	0.045	0.045	4.0	4.0	4.0	0.09	0.09	
SW QUADRANT CUTS & FILLS	0.040	0.040	3.6	3.6	3.6	0.08	0.08	
SE QUADRANT CUTS & FILLS	0.035	0.035	3.2	3.2	3.2	0.07	0.07	
TOTALS	0.200	0.200	18.0	18.0	18.0	0.40	0.40	100

TREE REMOVAL SCHEDULE

LOCATION	TREE REMOVAL (6 TO 15 UNITS DIAMETER)
	UNIT
STA 634+65.0, 32.0' RT	15
STA 634+65.0, 33.5' RT	15
STA 634+80.0, 31.0' RT	11
STA 634+93.5, 37.3' RT	7
STA 634+96.5, 38.3' RT	12
STA 634+98.5, 38.7' RT	12
STA 635+03.0, 35.8' RT	11
STA 635+05.0, 35.0' RT	14
STA 635+15.0, 34.5' RT	13
STA 635+15.0, 34.5' RT	15
STA 635+15.0, 35.0' RT	9
TOTAL	134

REMOVAL SCHEDULE

LOCATION	PAVEMENT REMOVAL
	SQ YD
STA 635+37.50 TO 635+52.25	44.5
STA 635+74.75 TO 635+89.50	44.5
TOTAL	89.0

F & E ROW MARKERS SCHEDULE

LOCATION	F&E ROW MARKERS
	EACH
STA 634+00.00, 30' RT	1
STA 634+00.00, 45' RT	1
STA 635+40.07, 30' LT	1
STA 635+48.07, 45' LT	1
STA 636+00.00, 30' RT	1
STA 636+00.00, 45' RT	1
STA 636+50.00, 30' LT	1
STA 636+50.00, 45' LT	1
TOTAL	8

PAVEMENT MARKING SCHEDULE

LOCATION	DESCRIPTION	SHORT-TERM PAVEMENT MARKING (1)	PAINT PAVEMENT MARKING - LINE 4"	TEMP PAVEMENT MARKING - LINE 4"
		FOOT	FOOT	FOOT
STA 632+53.5 TO 632+85.0, CL	DOUBLE YELLOW NO-PASS		65	65
STA 632+85.0 TO 638+73.5, CL	SINGLE YELLOW NO-PASS		590	590
STA 632+85.0 TO 638+73.5, CL	YELLOW SKIP-DASH	128	150	150
STA 634+08.5 TO 637+08.5, LT	WHITE EDGE		300	300
STA 634+18.5 TO 637+18.5, RT	WHITE EDGE		300	300
	TOTALS	128	1405	1405

(1) INCLUDES 1 ADDITIONAL APPLICATION

RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE

LOCATION	RRPM	REPLACEMENT REFLECTOR	RRPM, REFLECTOR REMOVAL
	EACH	EACH	EACH
STA 632+66		1	1
STA 633+44		1	1
STA 634+25		1	1
STA 635+08		1	1
STA 635+88	1		
STA 636+68		1	1
STA 637+50		1	1
STA 638+30		1	1
TOTALS	1	7	7

BASE COURSE SCHEDULE

LOCATION	BASE COURSE WIDENING, 10"
	SQ YD
STA 634+18.50 TO 635+52.25, LT	42.5
STA 635+74.75 TO 637+08.50, LT	42.5
STA 635+37.50 TO 637+89.50, LT	23.1
STA 634+18.50 TO 637+08.50, RT	128.9
TOTAL	237.0

GUARDRAIL REMOVAL SCHEDULE

LOCATION	FOOT
STRUCTURE NO. 076-2007 - NW	95
STRUCTURE NO. 076-2007 - NE	60
STRUCTURE NO. 076-2007 - SW	60
STRUCTURE NO. 076-2007 - SE	40
TOTAL	255

WORK ZONE AND PAVEMENT MARKING REMOVAL SCHEDULE

LOCATION	PAVEMENT MARKING DESCRIPTION	WORK ZONE PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL
		SQ FT	SQ FT
STA 632+53.5 TO 632+85.0, CL	DOUBLE NO-PASS		21.0
STA 632+85.0 TO 634+75.0, CL	SINGLE NO-PASS		63.3
STA 632+85.0 TO 634+75.0, CL	SKIP-DASH		16.7
STA 635+37.5 TO 636+85.5, LT	EDGE		49.3
STA 636+25.0 TO 638+73.5, CL	SKIP-DASH		20.0
STA 636+25.0 TO 638+73.5, CL	SINGLE NO-PASS		82.7
STA 634+27.5 TO 635+37.5, RT	EDGE		37.0
STA 635+89.5 TO 636+99.5, RT	EDGE		37.0
VARIOUS	SHORT-TERM	42.7	
VARIOUS	TEMPORARY	468.3	
TOTALS		511.0	327.0

PCC PAVEMENT SCHEDULE

LOCATION	PCC PAVEMENT 10"	PAVEMENT FABRIC
	SQ YD	SQ YD
STA 635+37.50 TO 635+89.50	140	140
TOTALS	140	140

ENTRANCE SCHEDULE

LOCATION	AGGREGATE SURFACE COURSE, TYPE A
	TON
STA 636+23, PE LT	2.5
TOTAL	2.5

HMA SHOULDERS SCHEDULE

LOCATION	HMA SHOULDERS, 8"
	SQ YD
STRUCTURE NO. 076-2007 - NW	31
STRUCTURE NO. 076-2007 - NE	58
STRUCTURE NO. 076-2007 - SW	45
STRUCTURE NO. 076-2007 - SE	25
TOTAL	159

GUARDRAIL SCHEDULE

LOCATION	SPBGR, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL			GUARDRAIL MARKERS, TYPE A	BARRIER WALL MARKERS, TYPE B	TERMINAL MARKER, DIRECT APPLIED	STEEL RAILING, TYPE 2399
		TYPE 6A	TYPE 6A (SPECIAL)	TYPE 1 (SPECIAL) TANGENT				
	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH
STRUCTURE NO. 076-2007 - NW	50.0	1			1			
STRUCTURE NO. 076-2007 - NE	37.5	1		1	2		1	
STRUCTURE NO. 076-2007 - SW	37.5	1		1	1		1	
STRUCTURE NO. 076-2007 - SE			1		1			
STRUCTURE NO. 076-2007 - HEADWALLS						2		44
TOTALS	125.0	3	1	2	5	2	2	44

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		DRAWN - DWH/HAS	REVISED -	
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	PLOT DATE = 12/29/2010 7:43:45 AM	DATE - 12/10	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES
STRUCTURE NO. 076-2007

SCALE: | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	5
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

EARTHWORK SCHEDULE

LOCATION	SUITABLE EARTH EXCAVATION	SUITABLE EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	SUITABLE INCIDENTAL EXCAVATION MATERIAL	SUITABLE INCIDENTAL EXC. MATERIAL ADJUSTED FOR SHRINKAGE	EMBANKMENT (NOT A PAY ITEM)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
NW QUADRANT CUTS & FILLS	17	13			234	-221
NE QUADRANT CUTS & FILLS	13	10			9	+1
SW QUADRANT CUTS & FILLS	16	12			57	-45
SE QUADRANT CUTS & FILLS	26	19			17	+2
EXCAVATION FOR PGE & CAPPING	200	150			32	+118
EXCAVATION FOR RIPRAP	98▪	0				0
EXCAVATION FOR CULVERT			65	49		+49
TOTALS	370	204	65	49	349	-96

NOTES:
1. EXCAVATION USED AS EMBANKMENT = (SUITABLE EARTH EXCAVATION + SUITABLE INCIDENTAL EXCAVATION)*0.75
▪ NOT SUITABLE AS EMBANKMENT

EROSION CONTROL SCHEDULE

LOCATION	TEMPORARY EROSION CONTROL SEEDING (2 APPLICATIONS)	PERIMETER EROSION BARRIER
	POUND	FOOT
NW QUADRANT CUTS & FILLS	28	330
NE QUADRANT CUTS & FILLS	7	135
SW QUADRANT CUTS & FILLS	14	155
SE QUADRANT CUTS & FILLS	11	225
TOTALS	60	845

SEEDING SCHEDULE

LOCATION	SEEDING, CLASS 2A	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2
	ACRE	ACRE	POUND	POUND	POUND	TON	ACRE
NW QUADRANT CUTS & FILLS	0.140	0.140	12.6	12.6	12.6	0.28	0.28
NE QUADRANT CUTS & FILLS	0.035	0.035	3.2	3.2	3.2	0.07	0.07
SW QUADRANT CUTS & FILLS	0.070	0.070	6.3	6.3	6.3	0.14	0.14
SE QUADRANT CUTS & FILLS	0.055	0.055	4.9	4.9	4.9	0.11	0.11
TOTALS	0.300	0.300	27.0	27.0	27.0	0.60	0.60

REMOVAL SCHEDULE

LOCATION	PAVEMENT REMOVAL	DRIVEWAY PAVEMENT REMOVAL
	SQ YD	SQ YD
STA 703+15.00, PE LT		180
STA 704+10.00 TO 704+17.50	23	
STA 704+17.50 TO 704+62.50	135	
STA 704+62.50 TO 704+70.00	23	
TOTALS	181	180

F & E ROW MARKERS SCHEDULE

LOCATION	F&E ROW MARKERS
	EACH
STA 701+50.00, 30' RT	1
STA 701+50.00, 45' RT	1
STA 703+50.00, 30' LT	1
STA 703+50.00, 45' LT	1
STA 706+00.00, 30' RT	1
STA 706+00.00, 45' RT	1
STA 706+00.00, 30' LT	1
STA 706+00.00, 45' LT	1
TOTAL	8

PAVEMENT MARKING SCHEDULE

LOCATION	DESCRIPTION	SHORT-TERM PAVEMENT MARKING ①	PAINT PAVEMENT MARKING - LINE 4"	TEMP PAVEMENT MARKING - LINE 4"
		FOOT	FOOT	FOOT
STA 701+30.0 TO 707+80.0, CL	YELLOW SKIP-DASH	128	160	160
STA 701+55.0 TO 705+85.0, RT	WHITE EDGE		430	430
STA 702+80.0 TO 706+74.0, LT	WHITE EDGE		394	394
STA 706+09.5 TO 707+80.0, CL	SINGLE YELLOW NO-PASS		171	171
TOTALS		128	1155	1155

① INCLUDES 1 ADDITIONAL APPLICATION

RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE

LOCATION	RRPM	REPLACEMENT REFLECTOR	RRPM, REFLECTOR REMOVAL
	EACH	EACH	EACH
STA 702+06		1	1
STA 702+84		1	1
STA 703+64		1	1
STA 704+42	1		
STA 705+20		1	1
STA 706+00		1	1
STA 706+79		1	1
STA 707+59		1	1
TOTALS	1	7	7

BASE COURSE SCHEDULE

LOCATION	BASE COURSE WIDENING, 10"
	SQ YD
STA 702+80.00 TO 704+17.50, LT	48.9
STA 704+17.50 TO 704+62.50, LT	15.0
STA 704+62.50 TO 705+85.00, LT	43.5
STA 704+10.00 TO 704+70.00, LT	26.7
STA 702+95.00 TO 705+85.00, RT	128.9
TOTAL	263.0

GUARDRAIL REMOVAL SCHEDULE

LOCATION	FOOT
STRUCTURE NO. 076-2006 - NW	320
STRUCTURE NO. 076-2006 - NE	50
STRUCTURE NO. 076-2006 - SW	50
STRUCTURE NO. 076-2006 - SE	185
TOTAL	605

ENTRANCE SCHEDULE

LOCATION	AGGREGATE SURFACE COURSE, TYPE A	BITUMINOUS MATERIALS (PRIME COAT)	INCIDENTAL HMA SURFACING
	TON	GALLON	TON
STA 703+15, PE LT	2.5	3	4
TOTALS	2.5	3	4

GUARDRAIL SCHEDULE

LOCATION	SPBGR, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL			GUARDRAIL MARKERS, TYPE A	BARRIER WALL MARKERS, TYPE B	TERMINAL MARKER, DIRECT APPLIED	STEEL RAILING, TYPE 2399
		TYPE 6A	TYPE 6A (MODIFIED)	TYPE 1 (SPECIAL) TANGENT				
	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH
STRUCTURE NO. 076-2006 - NW	162.5	1		1	3		1	
STRUCTURE NO. 076-2006 - NE			1	1	1		1	
STRUCTURE NO. 076-2006 - SW		1		1	1		1	
STRUCTURE NO. 076-2006 - SE	112.5	1		1	2		1	
STRUCTURE NO. 076-2006 - HEADWALLS						2		53
TOTALS	275.0	3	1	4	7	2	4	53

WORK ZONE AND PAVEMENT MARKING REMOVAL SCHEDULE

LOCATION	PAVEMENT MARKING DESCRIPTION	WORK ZONE PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL
		SQ FT	SQ FT
STA 701+30.0 TO 703+50.0, CL	SKIP-DASH		20.0
STA 703+14.0 TO 705+66.0, LT	EDGE		84.0
STA 705+30.0 TO 707+80.0, CL	SKIP-DASH		20.0
STA 706+09.5 TO 707+80.0, CL	SINGLE NO-PASS		57.0
STA 703+04.0 TO 704+10.0, RT	EDGE		36.0
STA 704+70.0 TO 705+76.0, RT	EDGE		36.0
VARIOUS	SHORT-TERM	42.7	
VARIOUS	TEMPORARY	385.3	
	TOTALS	428.0	253.0

PCC PAVEMENT SCHEDULE

LOCATION	PCC PAVEMENT 10"	PAVEMENT FABRIC
	SQ YD	SQ YD
STA 704+10.00 TO 704+70.00	160	160
TOTALS	160	160

HMA SHOULDERS SCHEDULE

LOCATION	HMA SHOULDERS, 8"
	SQ YD
STRUCTURE NO. 076-2006 - NW	146
STRUCTURE NO. 076-2006 - NE	32
STRUCTURE NO. 076-2006 - SW	30
STRUCTURE NO. 076-2006 - SE	113
TOTAL	321

FILE NAME = D998854-sht-schedule01.dgn	USER NAME = HAS	DESIGNED - MTD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
		DRAWN - DWH/HAS	REVISED -	
	PLOT SCALE = 0.0833 ' / IN.	CHECKED - RDP	REVISED -	
	PLOT DATE = 12/27/2010 9:52:02 AM	DATE - 12/10	REVISED -	

SCHEDULES OF QUANTITIES
STRUCTURE NO. 076-2006

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	6
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

- BASE CSE WIDENING, 10"
- AGG SURF CSE, TYPE A
- HMA SHOULDER 8"
- PCC PAVEMENT 10"

SEC. 5, T11S, R7E, 3RD P.M.

SCALE IN FEET: 20 0 20 40

TOP OF BANK
UNNAMED STREAM
CONSTRUCTION LIMITS
EX ROW
PR ROW
+20.00
+18.50
TBT TY 1 SPL (TANGENT)
60' GUARDRAIL REMOVAL
TBT TY 6A SPL
40' GUARDRAIL REMOVAL
#23 PE (AGG)
6"
37.5' SPBGR TY A
TBT TY 6A
FULL DEPTH SAWCUT
635+00
STA 635+37.50
STA 635+89.50
℄ IL 34
636
633
634
637
638
30'-0"
12'
6'-9"
2'-10"
+08.50
50' SPBGR TY A
95' GUARDRAIL REMOVAL
+77 PE (HMA)
+07.00
+58.60 CONNECT TO EX GUARDRAIL
LIMITS OF WETLAND, DO NOT DISTURB
℄ EX SN 076-2005
STA 635+63.50
DOUBLE BARREL BOX CULVERT TO BE REMOVED AND REPLACED WITH PR SN 076-2007

CENTERLINE TIE

TOP CENTER OF CABLE BOX — GREEN CAP IN P.P.
53.10'
95.20'
38.25'
℄ IL 34
PK NAIL
GREEN CAP IN 10" DIA. TREE

POT 625+85.58

BENCHMARK: BM 200 EL 464.18
CHISELED SQUARE ON TOP OF SOUTH END OF WEST HEADWALL AT STA 635+87, 16' RT, STRUCTURE NO. 076-2005

SEC. 5, T11S, R7E, 3RD P.M.

CENTERLINE TIE

GREEN CAP IN 6" DIA. TREE
℄ IL 34
40.05'
PK NAIL
43.35'
103.10'
GREEN CAP IN CORNER FENCE POST
GREEN CAP IN P.P.

PC 640+41.82

490 485 480 475 470 465 460 455 450

℄ STRUCTURE STA 635+63.50
-0.52%
EX. & PR. PGL. IL 34
MATCH EX. 464.66
MATCH EX. 464.39
D.H.W. EL. 461.70
EX STRUCTURE TO BE REMOVED
PR STRUCTURE NO. 076-2007
DOUBLE BOX CULVERT
10'-0" S x 6'-0" R

465.93 465.73 465.58 465.31 465.06 464.86 464.59 **464.60** 464.34 464.08 463.81 463.49 463.18 462.91

632+50 633+00 633+50 634+00 634+50 635+00 635+50 636+00 636+50 637+00 637+50 638+00 638+50

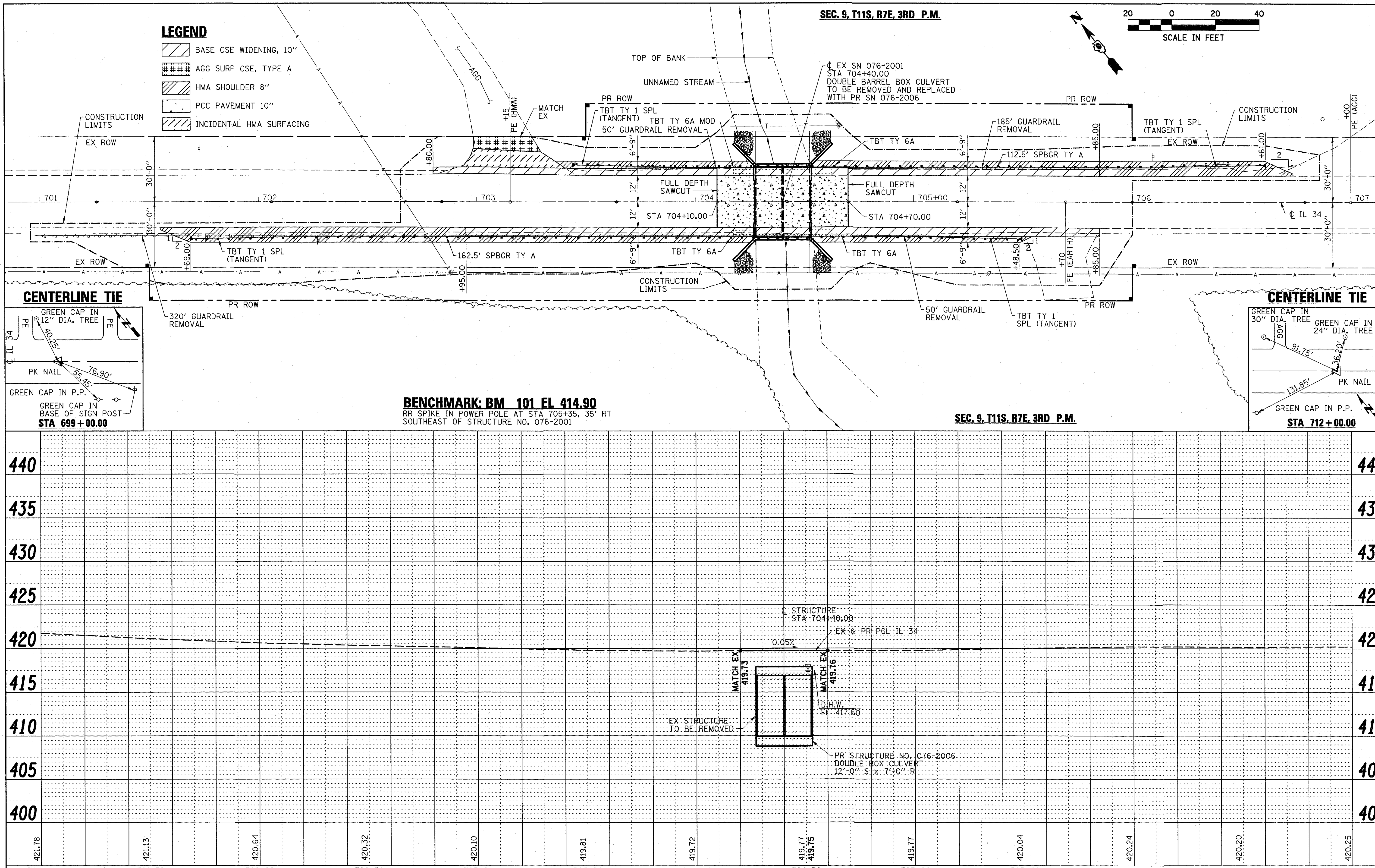
FILE NAME = D998854-sht-ppf51.dgn	USER NAME = HAS	DESIGNED - MTD	REVISED -
		DRAWN - JPC/HAS	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - RDP	REVISED -
SCALES: (HORIZ) 1"=20' (VERT) 1"=5'	PLOT DATE = 1/4/2011 1:04:52 PM	DATE - 12/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 34 PLAN AND PROFILE
STRUCTURE NO. 076-2007
SCALE: 1" = 20'-0" | SHEET NO. 1 OF 2 SHEETS | STA. 632+50 TO STA. 638+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	7
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STRUCTURE NOTATIONS CHKD



SEC. 9, T11S, R7E, 3RD P.M.
20 0 20 40
SCALE IN FEET
LEGEND
BASE CSE WIDENING, 10"
AGG SURF CSE, TYPE A
HMA SHOULDER 8"
PCC PAVEMENT 10"
INCIDENTAL HMA SURFACING
TOP OF BANK
UNNAMED STREAM
℄ EX SN 076-2001
STA 704+40.00
DOUBLE BARREL BOX CULVERT
TO BE REMOVED AND REPLACED
WITH PR SN 076-2006
PR ROW
CONSTRUCTION LIMITS
EX ROW
MATCH EX
+15 PE (HMA)
TBT TY 1 SPL (TANGENT)
TBT TY 6A MOD
50' GUARDRAIL REMOVAL
TBT TY 6A
185' GUARDRAIL REMOVAL
112.5' SPBGR TY A
FULL DEPTH SAWCUT
STA 704+10.00
STA 704+70.00
℄ IL 34
+00 PE (AGG)
162.5' SPBGR TY A
320' GUARDRAIL REMOVAL
50' GUARDRAIL REMOVAL
TBT TY 1 SPL (TANGENT)
+70 FE (EARTH)
CENTERLINE TIE
GREEN CAP IN 12" DIA. TREE
PK NAIL
GREEN CAP IN P.P.
GREEN CAP IN BASE OF SIGN POST
STA 699+00.00
BENCHMARK: BM 101 EL 414.90
RR SPIKE IN POWER POLE AT STA 705+35, 35' RT
SOUTHEAST OF STRUCTURE NO. 076-2001
CENTERLINE TIE
GREEN CAP IN 30" DIA. TREE
GREEN CAP IN 24" DIA. TREE
PK NAIL
GREEN CAP IN P.P.
STA 712+00.00
℄ STRUCTURE STA 704+40.00
EX & PR PGL IL 34
0.05%
MATCH EX 419.73
MATCH EX 419.76
D.H.W. EL 417.50
EX STRUCTURE TO BE REMOVED
PR STRUCTURE NO. 076-2006
DOUBLE BOX CULVERT
12'-0" S x 7'-0" R
440 435 430 425 420 415 410 405 400
421.78 421.13 420.64 420.32 420.10 419.81 419.72 419.77 419.75 419.77 420.04 420.24 420.20 420.25
701+00 701+50 702+00 702+50 703+00 703+50 704+00 704+50 705+00 705+50 706+00 706+50 707+00

FILE NAME = D998854-sht-ppf01.dgn	USER NAME = HAS	DESIGNED - MTD	REVISED -
		DRAWN - JPC/HAS	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - RDP	REVISED -
SCALES: (HORIZ) 1"=20' (VERT) 1"=5'	PLOT DATE = 1/4/2011	DATE - 12/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 34 PLAN AND PROFILE
STRUCTURE NO. 076-2006

SCALE: 1" = 20'-0" | SHEET NO. 2 OF 2 SHEETS | STA. 701+00 TO STA. 707+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	8

CONTRACT NO. 98854

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

SCHEDULE OF QUANTITIES

TEMPORARY CONCRETE BARRIER

STATION	TO	STATION	FEET
634+13.5		637+13.5	300
		TOTAL -	300

TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH

TEMPORARY RUMBLE STRIPS - 6 EACH

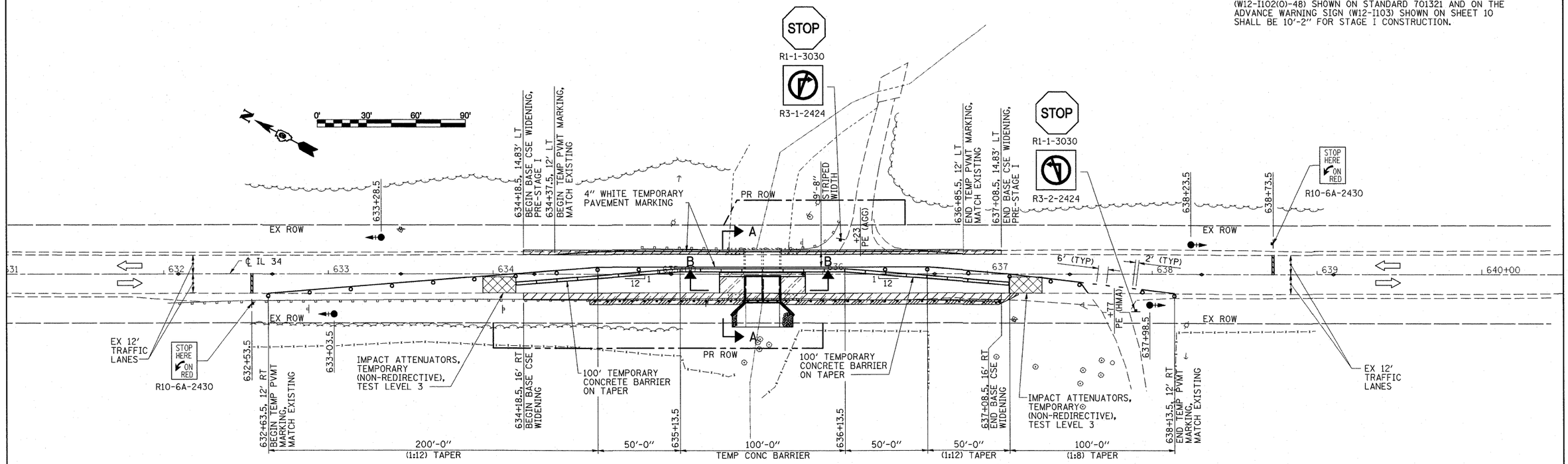
IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH

LEGEND

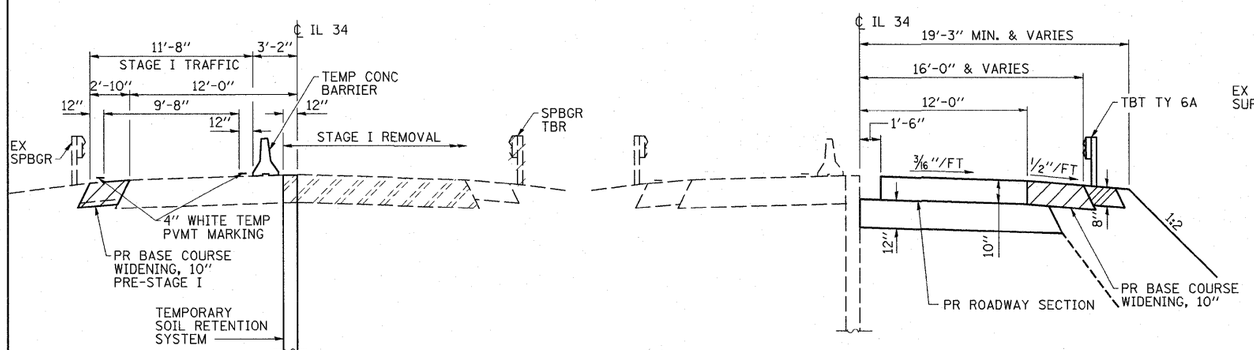
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- BASE COURSE WIDENING, 10"
- PAVEMENT REMOVAL
- HMA SHOULDER, 8"

GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
5. ADDITIONAL SIGNAGE FOR ENTRANCES AND ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
6. 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 10 SHALL BE 10'-2" FOR STAGE I CONSTRUCTION.

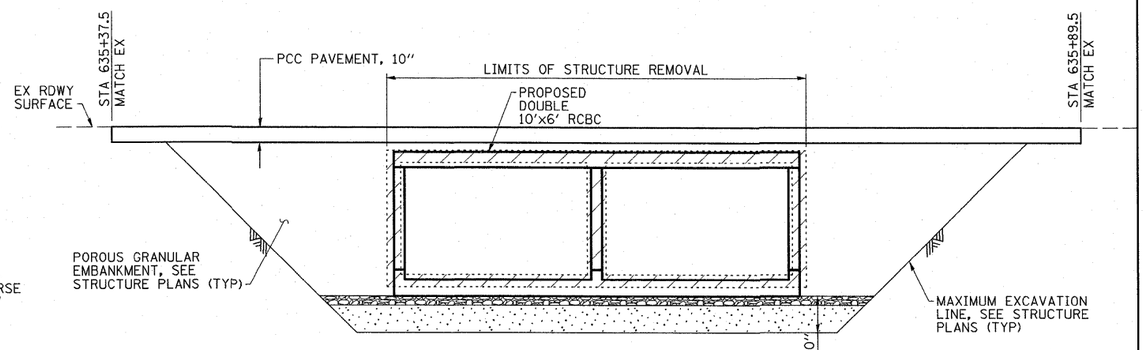


STAGE I PLAN



SECTION A–A REMOVAL

SECTION A–A CONSTRUCTION



NOTE: POROUS GRANULAR EMBANKMENT SHALL BE CA 7 OR CA 11 WITH THE TOP 12" CONSISTING OF CA 6 OR CA 10.

SECTION B–B

FILE NAME = D998854-sht-staging51.dgn	USER NAME = HAS	DESIGNED - DAJ	REVISED -
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	PLOT DATE = 1/4/2011 7:53:43 AM	DATE - 12/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION PLAN AND DETAILS
STRUCTURE NO. 076-2007

SCALE: 1"=30'-0" | SHEET NO. 1 OF 4 SHEETS | STA. 631+00 | TO STA. 640+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	9
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

RELOCATE
TEMPORARY CONCRETE BARRIER

STATION	TO	STATION	FEET
634+13.5		635+88.5	175
		TOTAL -	175

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

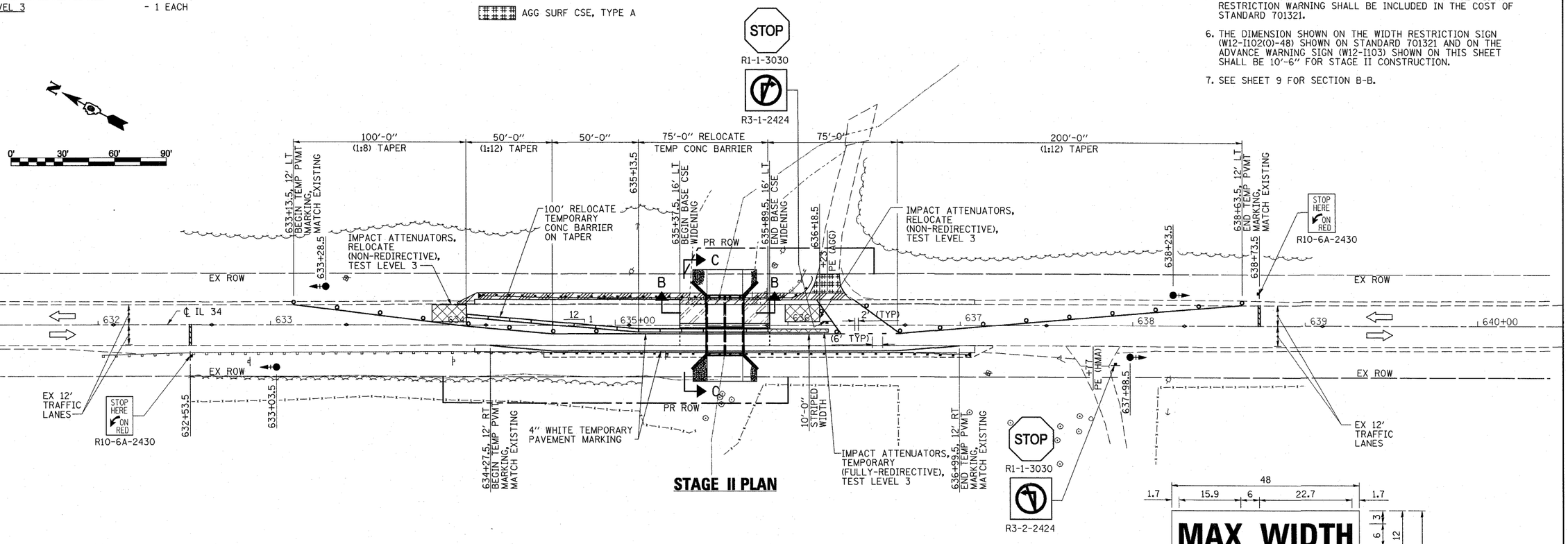
IMPACT ATTENUATORS, TEMPORARY
(FULLY-REDIRECTIVE, NARROW),
TEST LEVEL 3 - 1 EACH

LEGEND

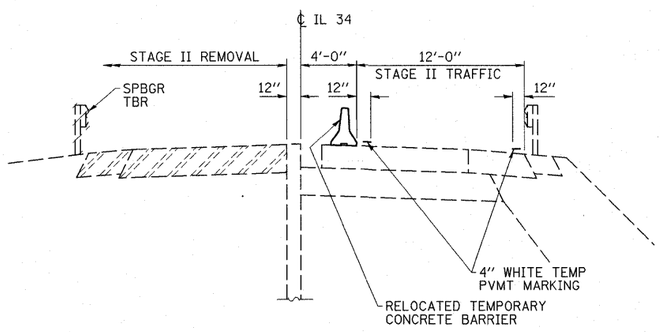
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- BASE COURSE WIDENING, 10"
- PAVEMENT REMOVAL
- HMA SHOULDER, 8"
- AGG SURF CSE, TYPE A

GENERAL NOTES

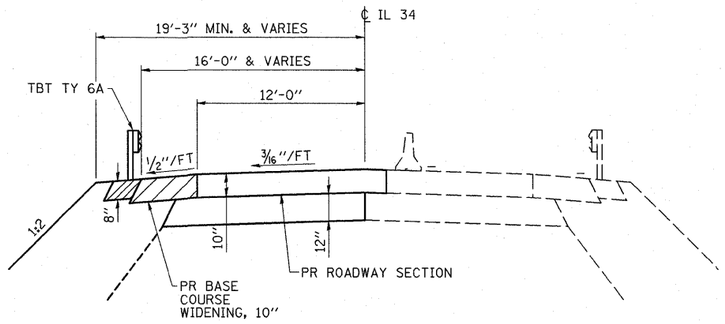
1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
5. ADDITIONAL SIGNAGE FOR ENTRANCES AND ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
6. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I102(O)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103) SHOWN ON THIS SHEET SHALL BE 10'-6" FOR STAGE II CONSTRUCTION.
7. SEE SHEET 9 FOR SECTION B-B.



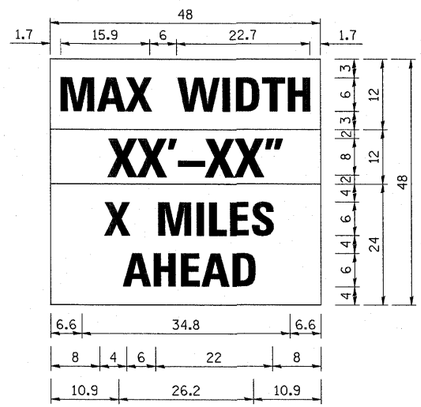
STAGE II PLAN



SECTION C–C REMOVAL



SECTION C–C CONSTRUCTION



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

W12–I103

W12-I103 (Width is 8D);
No border, Black on White;
"MAX WIDTH" D;
No border, Black on Orange;
"XX'-XX"" D;
No border, Black on White;
"X MILES" D; "AHEAD" D

FILE NAME = D998854-sht-staging52.dgn	USER NAME = HAS	DESIGNED - DAJ	REVISED -
		DRAWN - DWH/HAS	REVISED -
	PLOT SCALE = 0.0833 ' / IN.	CHECKED - MTD	REVISED -
	PLOT DATE = 12/29/2010 7:49:37 AM	DATE - 12/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION PLAN AND DETAILS
STRUCTURE NO. 076–2007

SCALE: 1"=30'-0" | SHEET NO. 2 OF 4 SHEETS | STA. 631+00 | TO STA. 640+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	10
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

TEMPORARY CONCRETE BARRIER

STATION	TO	STATION	FEET
702+90		705+90	300
		TOTAL -	300

TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH

TEMPORARY RUMBLE STRIPS - 6 EACH

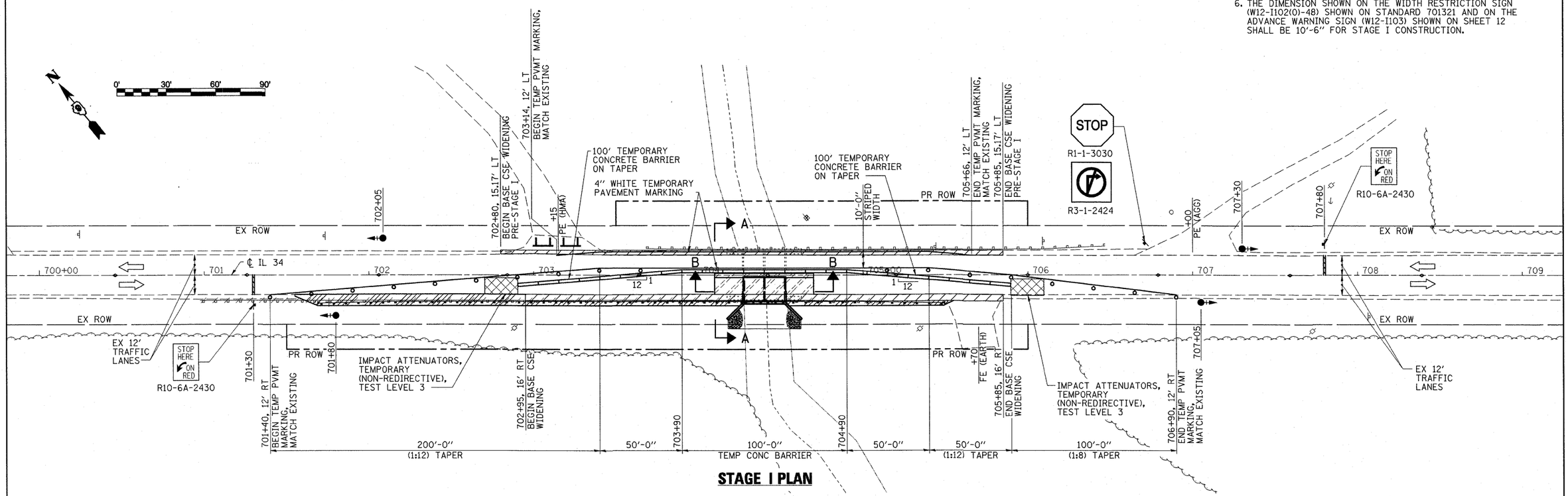
IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH

LEGEND

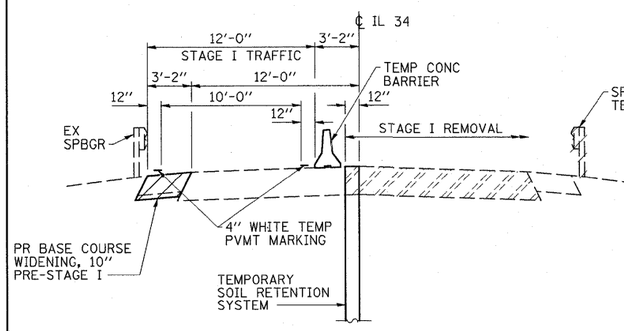
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- BASE COURSE WIDENING, 10"
- PAVEMENT REMOVAL
- HMA SHOULDER, 8"
- TYPE III BARRICADES CLOSING A ROAD TO ALL TRAFFIC AS SHOWN ON STANDARD 701901

GENERAL NOTES

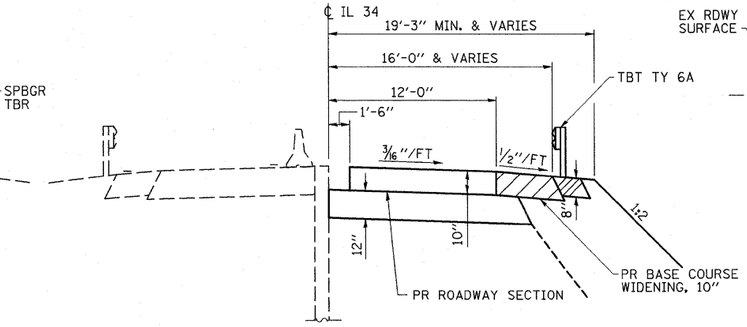
1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
5. ADDITIONAL SIGNAGE FOR ENTRANCES AND ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
6. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I102(O)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103) SHOWN ON SHEET 12 SHALL BE 10'-6" FOR STAGE I CONSTRUCTION.



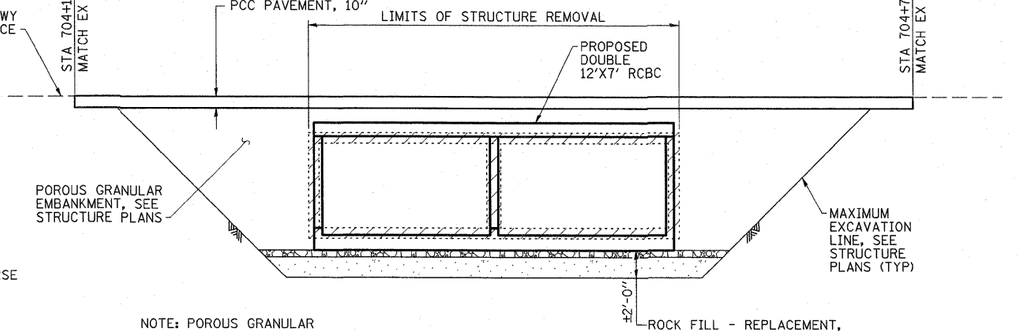
STAGE I PLAN



SECTION A–A REMOVAL



SECTION A–A CONSTRUCTION



NOTE: POROUS GRANULAR EMBANKMENT SHALL BE CA 7 OR CA 11 WITH THE TOP 12" CONSISTING OF CA 6 OR CA 10.

SECTION B–B

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION PLAN AND DETAILS
STRUCTURE NO. 076–2006

SCALE: 1"=30'-0" | SHEET NO. 3 OF 4 SHEETS | STA. 700+00 TO STA. 709+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	11
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

RELOCATE
TEMPORARY CONCRETE BARRIER

STATION	TO	STATION	FEET
702+90		705+90	300
		TOTAL -	300

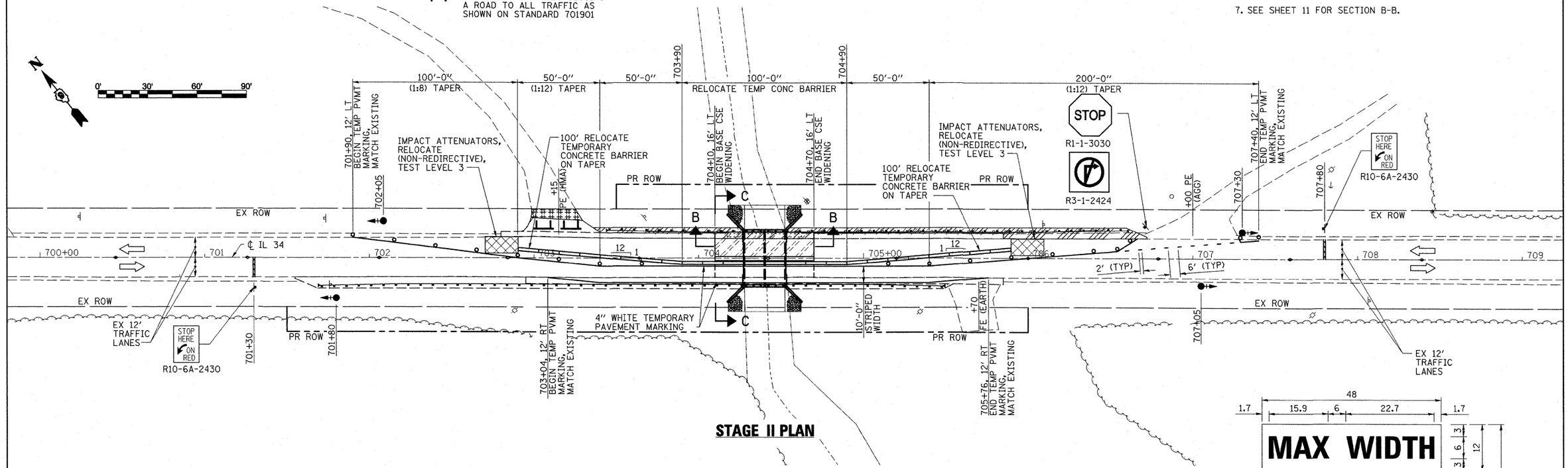
IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH

LEGEND

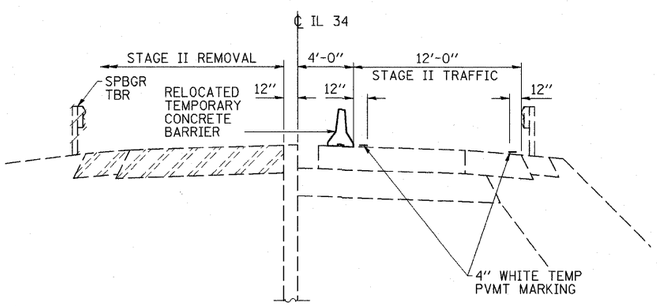
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- BASE COURSE WIDENING, 10"
- PAVEMENT REMOVAL
- HMA SHOULDER, 8"
- INCIDENTAL HMA SURFACING
- AGG SURF CSE, TYPE A
- TYPE III BARRICADES CLOSING A ROAD TO ALL TRAFFIC AS SHOWN ON STANDARD 701901

GENERAL NOTES

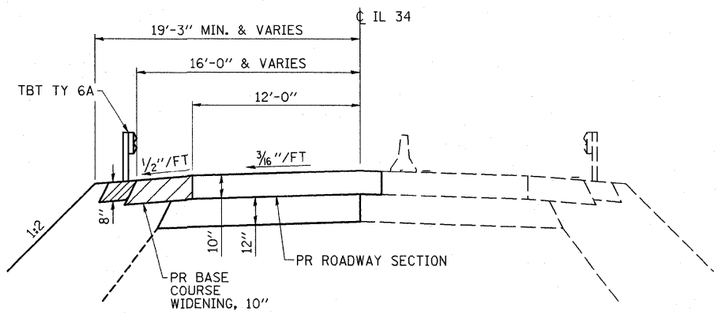
1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
5. ADDITIONAL SIGNAGE FOR ENTRANCES AND ADVANCE WIDTH RESTRICTION WARNING SHALL BE INCLUDED IN THE COST OF STANDARD 701321.
6. THE DIMENSION SHOWN ON THE WIDTH RESTRICTION SIGN (W12-I102(0)-48) SHOWN ON STANDARD 701321 AND ON THE ADVANCE WARNING SIGN (W12-I103) SHOWN ON THIS SHEET SHALL BE 10'-6" FOR STAGE II CONSTRUCTION.
7. SEE SHEET 11 FOR SECTION B-B.



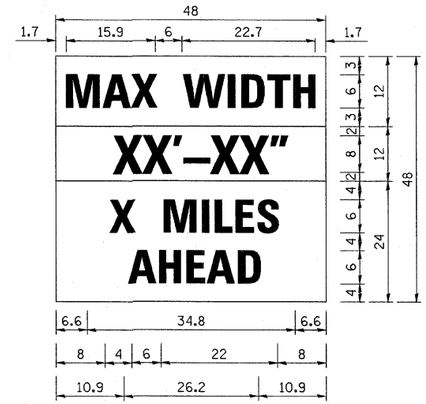
STAGE II PLAN



SECTION C–C REMOVAL



SECTION C–C CONSTRUCTION



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

W12–I103

W12-I103 (Width is 8D);
No border, Black 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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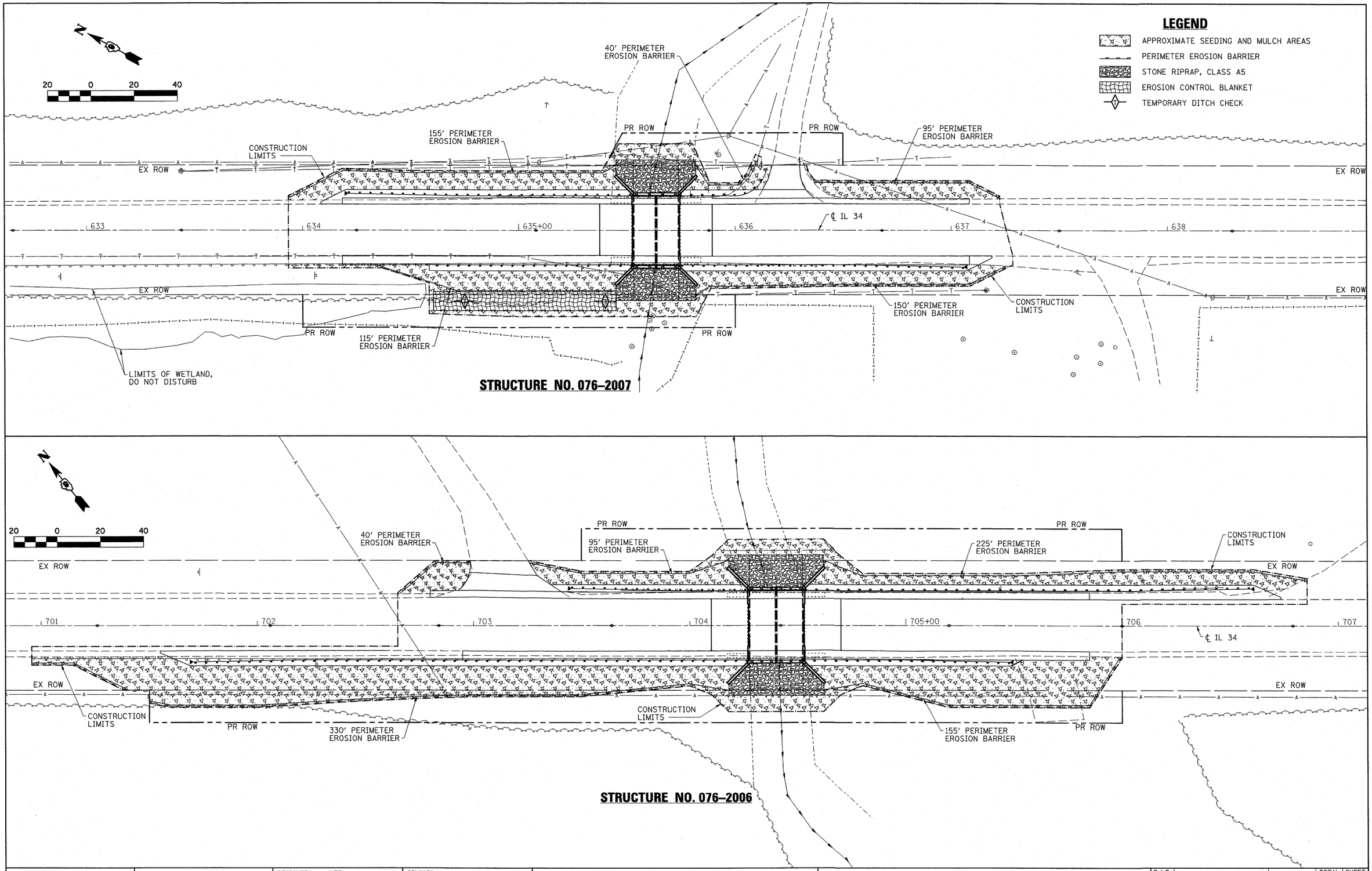
STAGE CONSTRUCTION PLAN AND DETAILS
STRUCTURE NO. 076–2006

SCALE: 1"=30'-0" | SHEET NO. 4 OF 4 SHEETS | STA. 700+00 | TO STA. 709+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	12
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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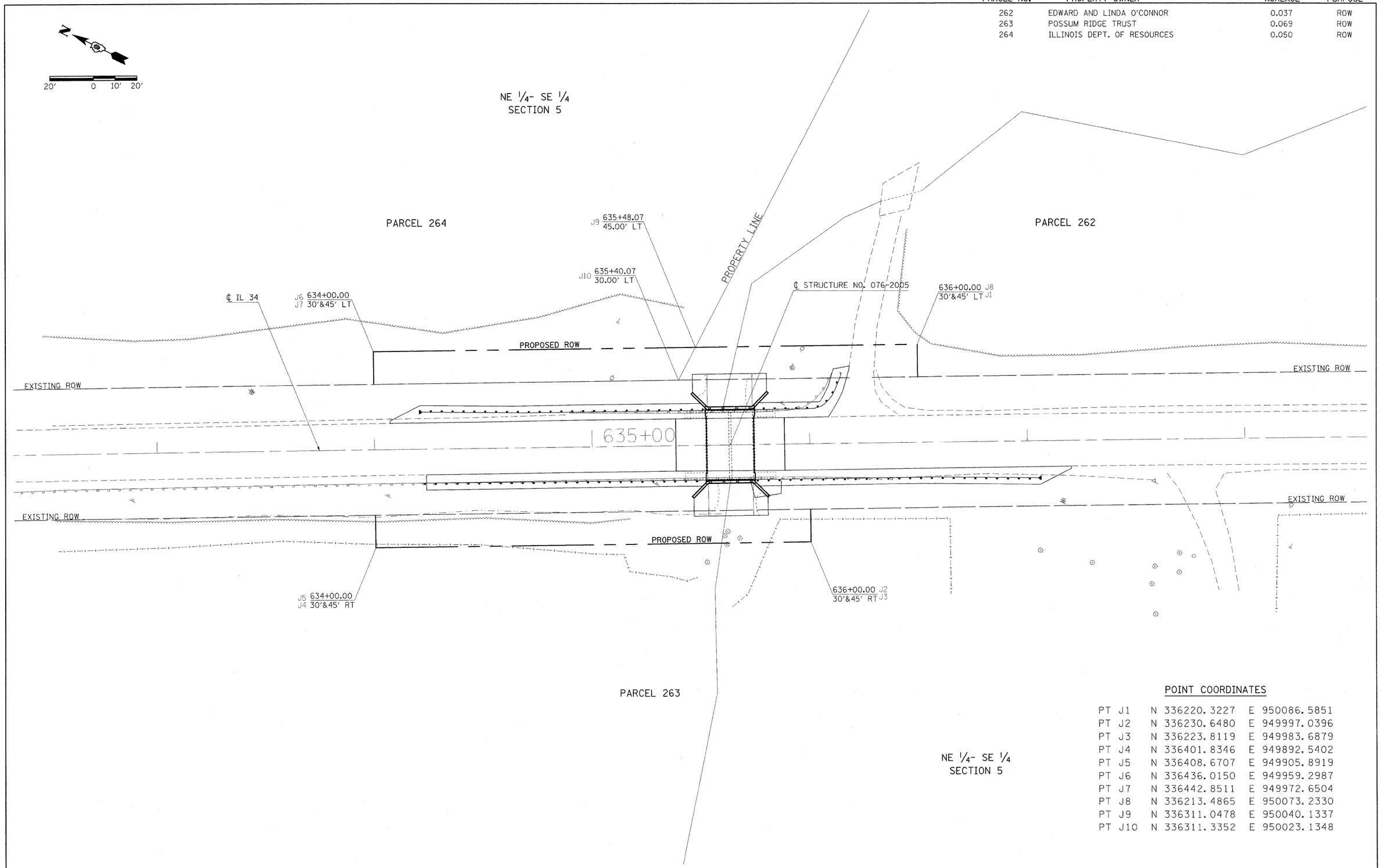
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL AND DRAINAGE PLANS

SCALE: 1"=20'-0" | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1 & 3B-2	POPE	50	13
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PARCEL NO.	PROPERTY OWNER	ACREAGE	PURPOSE
262	EDWARD AND LINDA O'CONNOR	0.037	ROW
263	POSSUM RIDGE TRUST	0.069	ROW
264	ILLINOIS DEPT. OF RESOURCES	0.050	ROW



POINT COORDINATES

PT J1	N 336220.3227	E 950086.5851
PT J2	N 336230.6480	E 949997.0396
PT J3	N 336223.8119	E 949983.6879
PT J4	N 336401.8346	E 949892.5402
PT J5	N 336408.6707	E 949905.8919
PT J6	N 336436.0150	E 949959.2987
PT J7	N 336442.8511	E 949972.6504
PT J8	N 336213.4865	E 950073.2330
PT J9	N 336311.0478	E 950040.1337
PT J10	N 336311.3352	E 950023.1348

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	PLOT DATE = 1/26/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS

	PROJECT	JOB NO. R99-009-10
SCALE: 1"=20'	SHEET NO. OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	14
		CONTRACT NO. 98854		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

254	DENNIS AND ANN FERREL		0.241	ROW

N

20′ 0 10′ 20′

SE ¼- SE ¼
SECTION 9

PARCEL 254

J10 703+50.00
J9 30′&45′ LT

℄ STRUCTURE NO. 076-2001

706+00.00 J8
30′&45′ LT J11

PROPOSED ROW

EXISTING ROW

EXISTING ROW

705+00

EXISTING ROW

EXISTING ROW

PROPOSED ROW

J7 701+50.00
J6 30′&45′ RT

706+00.00 J4
30′&45′ RT J5

PARCEL 254

SE ¼- SE ¼
SECTION 9

POINT COORDINATES

PT J4	N 331917.4063	E 955234.5900
PT J5	N 331905.9322	E 955224.9285
PT J6	N 332195.7766	E 954880.7045
PT J7	N 332207.2507	E 954890.3659
PT J8	N 331963.3028	E 955273.2359
PT J9	N 332135.8017	E 955091.6618
PT J10	N 332124.3275	E 955082.0003
PT J11	N 331974.7770	E 955282.8974

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	PLOT DATE = 1/26/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLANS

	PROJECT	JOB NO. R99-010-10
SCALE: 1″=20′	SHEET NO. OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	15
		CONTRACT NO. 98854		
FED. ROAD DIST. NO. 2	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

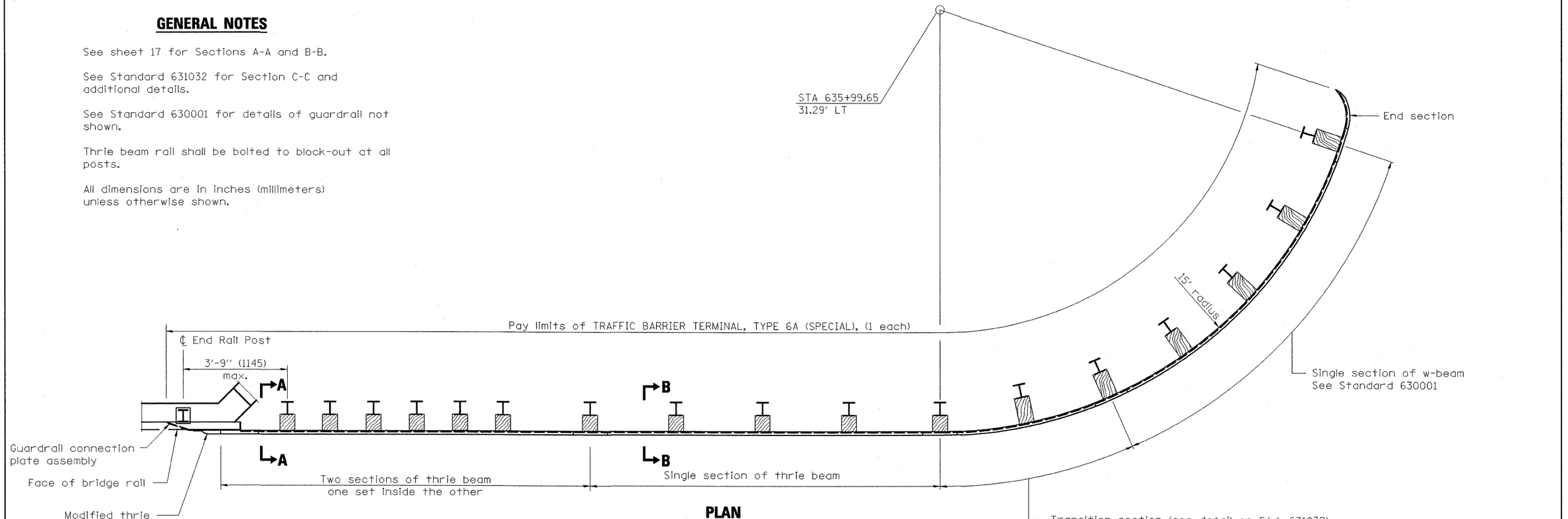
See sheet 17 for Sections A-A and B-B.

See Standard 631032 for Section C-C and additional details.

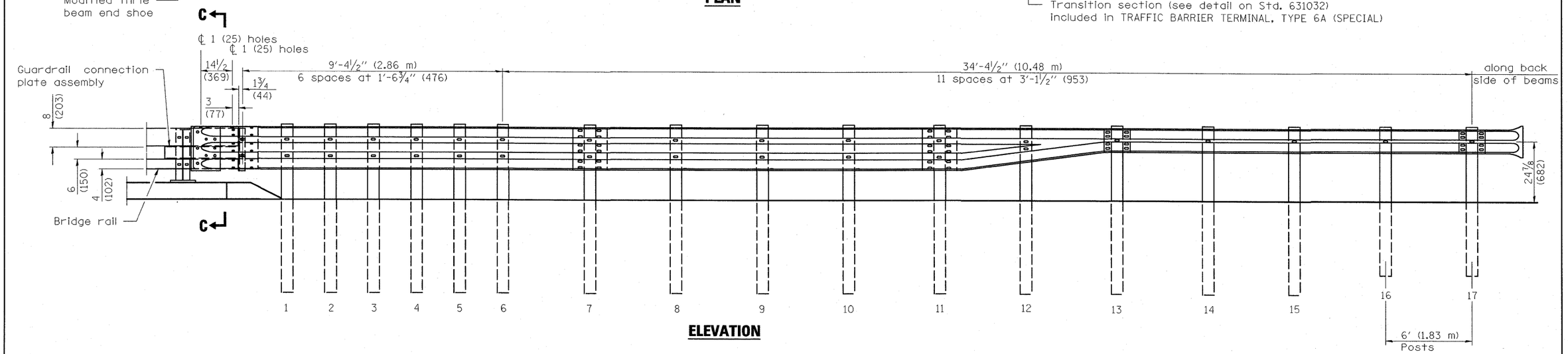
See Standard 630001 for details of guardrail not shown.

Thrie beam rail shall be bolted to block-out at all posts.

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



PLAN



ELEVATION

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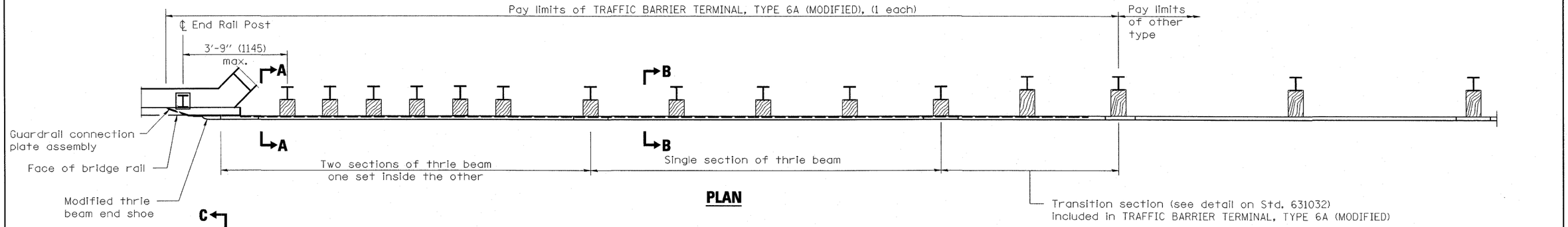
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

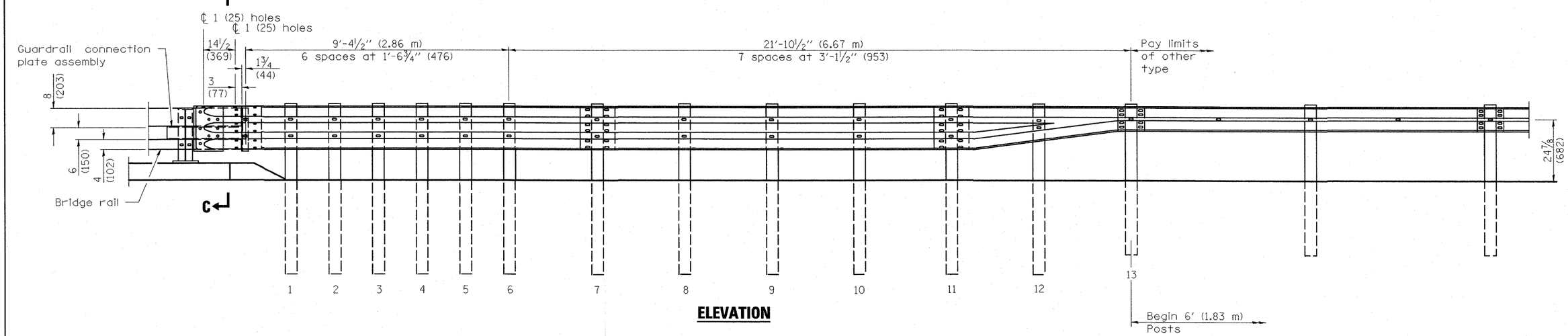
TRAFFIC BARRIER TERMINAL, TYPE 6A (SPECIAL)
STRUCTURE NO. 076-2007

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

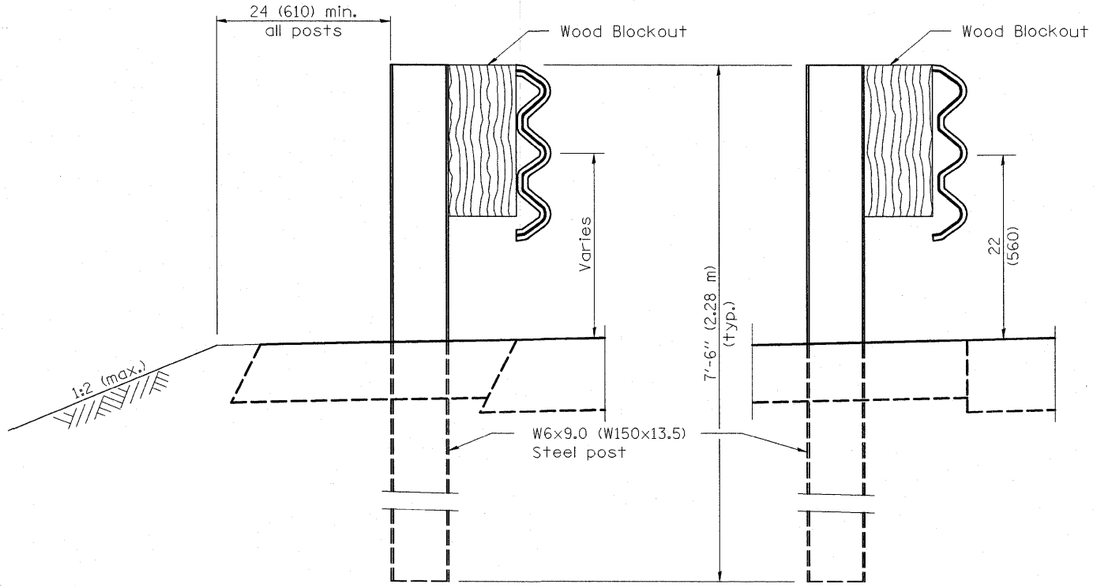
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	16
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN



ELEVATION



SECTION A–A **SECTION B–B**

GENERAL NOTES

See Standard 631032 for Section C-C and additional details.

See Standard 630001 for details of guardrail not shown.

Thrie beam rail shall be bolted to block-out at all posts.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

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

FILE NAME = D998854-sht-details52.dgn	USER NAME = HAS	DESIGNED - MTD	REVISED -
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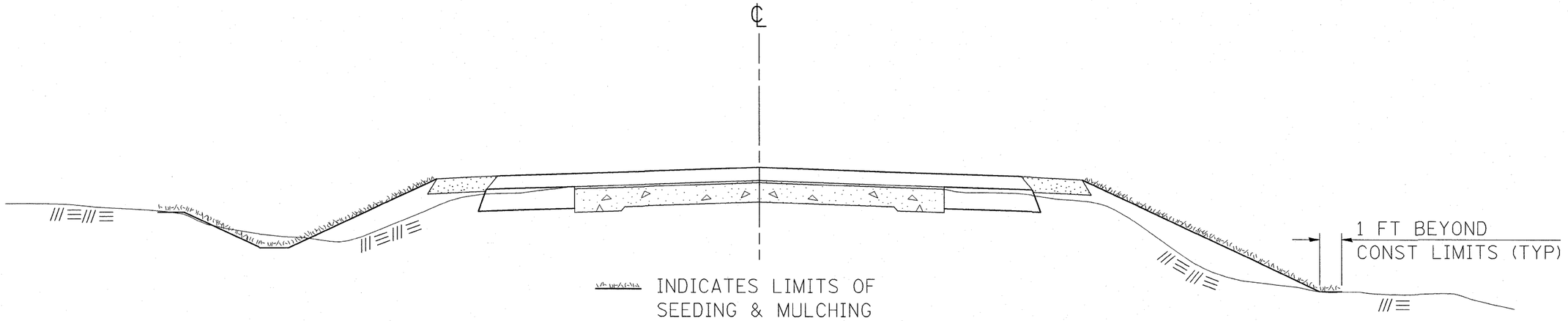
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC BARRIER TERMINAL, TYPE 6A (MODIFIED)
STRUCTURE NO. 076–2006

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	17
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	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.

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

FILE NAME = D998854-sht-details54.dgn	USER NAME = HAS	DESIGNED - MTD	REVISED -
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	PLOT DATE = 12/27/2010 10:12:12 AM	DATE - 12/10	REVISED -

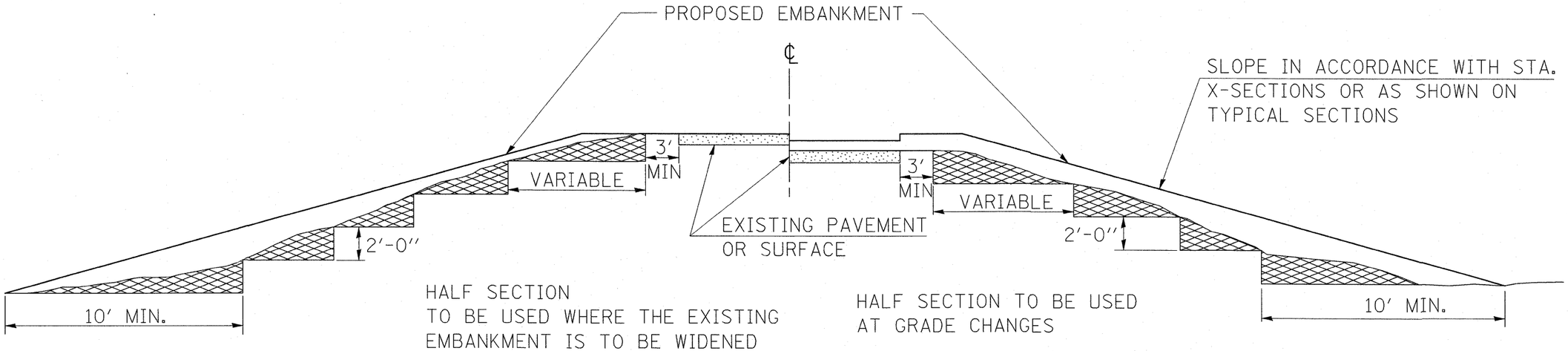
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEEDING AND MULCHING DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1 & 3B-2	POPE	50	18
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	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

FILE NAME = D998854-sht-details55.dgn	USER NAME = HAS	DESIGNED - MTD	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

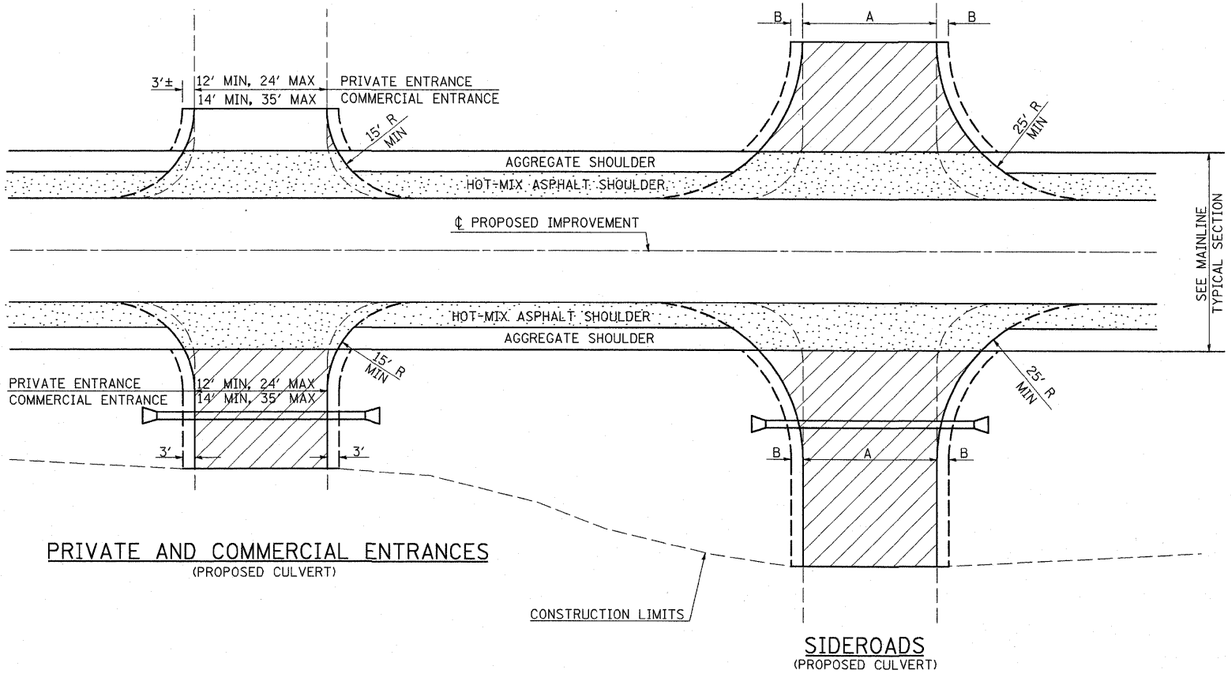
STEP CONSTRUCTION ON EXISTING FILL DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1 & 3B-2	POPE	50	19
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

RURAL SIDE APPROACH DETAILS

PRIVATE AND COMMERCIAL ENTRANCES



PRIVATE AND COMMERCIAL ENTRANCES
(PROPOSED CULVERT)

SIDEROADS

SIDEROADS
(PROPOSED CULVERT)

SIDEROAD DIMENSIONS (MIN.)

ADT	A (FT)	B (FT)
0 TO 250	18'	2'
250 TO 400	20'	2'
GREATER THAN 400	22'	4'

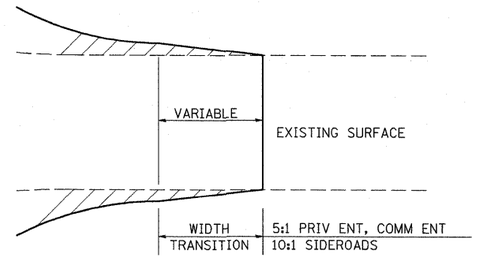
FIELD ENTRANCE TREATMENT

CONSTRUCT MAINLINE HOT-MIX ASPHALT AND AGGREGATE SHOULDERS THROUGH FIELD ENTRANCES.

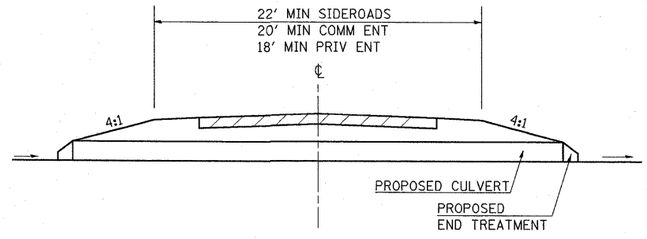
IF A PIPE IS REQUIRED, PROVIDE A 22' WIDE EARTH EMBANKMENT WITH 15' RADII AT THE INTERSECTION.

WIDTH TRANSITION DETAIL TO EXISTING

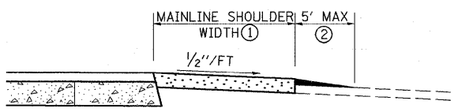
(IF APPLICABLE)

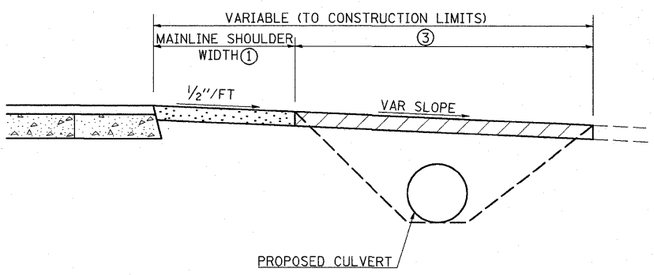


DETAIL FOR CALCULATING CULVERT LENGTH

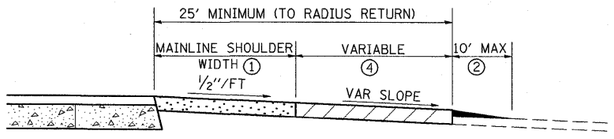


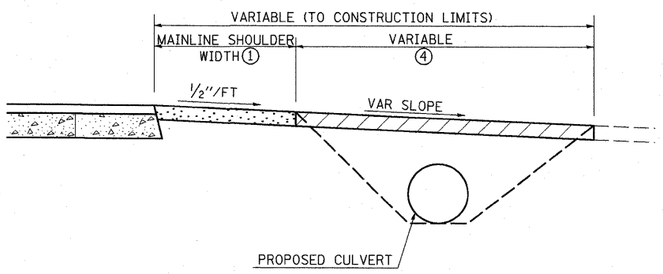
PRIVATE AND COMMERCIAL ENTRANCES





SIDEROADS





LEGEND

① CONSTRUCT HOT-MIX ASPHALT SHOULDER "FULL SHOULDER WIDTH" THROUGH ENTRANCE/INTERSECTION UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

② IF REQUIRED, AGGREGATE TAPER FOR EXISTING GRAVEL SURFACE; HOT-MIX ASPHALT TAPER FOR EXISTING HIGHER TYPE SURFACES.

③ 6" AGGREGATE SURFACE COURSE FOR EXISTING GRAVEL SURFACE; 2" HOT-MIX ASPHALT RESURFACING ON 4" AGGREGATE BASE COURSE FOR EXISTING HOT-MIX ASPHALT SURFACE; PCC DRIVEWAY PAVEMENT (6" - PE; 7" - CE) FOR EXISTING CONCRETE SURFACE.

④ 3" MINIMUM HOT-MIX ASPHALT RESURFACING ON 8" MINIMUM AGGREGATE BASE COURSE FOR EXISTING GRAVEL SURFACE OR OIL & CHIP SURFACE; MATCH EXISTING FOR EXISTING HIGHER TYPE SURFACES.

GENERAL NOTES

1. ENTRANCE LOCATIONS ARE TO COMPLY WITH IDOT'S POLICY "ACCESS TO STATE HIGHWAYS".
2. IN GENERAL, RELOCATED PRIVATE ENTRANCES ARE TO HAVE A 16' WIDE SURFACE WITH 3' WIDE SHOULDERS (22' WIDE EMBANKMENT).
3. SEE PLANS FOR PROPOSED PROFILE GRADES AT ENTRANCES/SIDEROADS. THE DESIRABLE MAXIMUM PROFILE GRADE FOR ENTRANCES ARE 12% FOR PE; 10% FOR CE.
4. ENTRANCE PIPE CULVERTS ARE TO BE A MINIMUM 15" DIAMETER AND NORMALLY REPLACED IN KIND; SIDEROAD PIPE CULVERTS ARE GENERALLY TO BE CONCRETE (18" MINIMUM DIAMETER).
5. THE INTERSECTION RADII OF SIDEROADS CONSTRUCTED TO FULL POLICY STANDARDS SHOULD COMPLY WITH THAT NOTED IN THE BUREAU OF LOCAL ROADS ADMINISTRATIVE POLICIES MANUAL (5-8-13).

STD. 9-83

REVISIONS

DRAWN	3-15-91
REVISED	10-02-91
REVISED	5-15-92
REVISED	1-20-00
REVISED	01-11-07
RESIZED	5-7-08

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	PLOT DATE = 12/27/2010 10:12:45 AM	DATE - 12/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RURAL SIDE APPROACH DETAILS

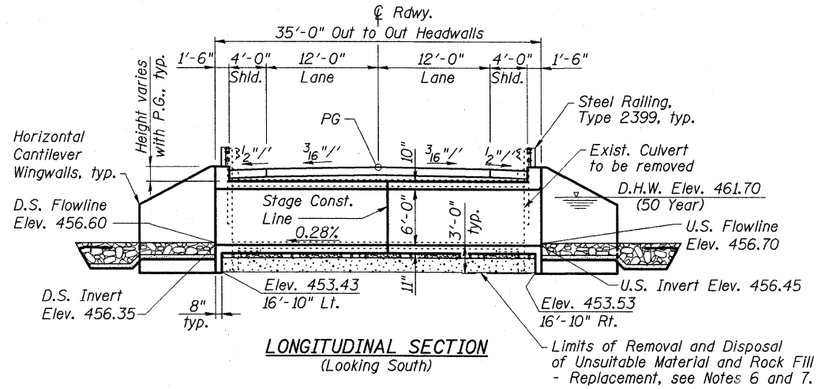
SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1 & 3B-2	POPE	50	20
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

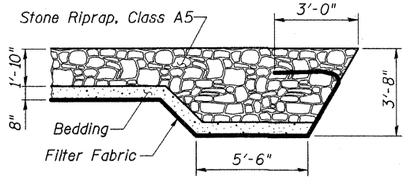
BENCHMARK: BM 200-Chiseled square on top of south end of west headwall of existing SN 076-2005, Elev. 464.18

EXISTING STRUCTURE:
SN 076-2005 was originally built in 1923 as Route 34, Section 3A. It is a double barrel 10'S by 6'R reinforced concrete box culvert with L-Type wing walls and side mounted steel railing. In 2008 a new concrete slab was poured on top of the existing culvert. The barrel length is 31'-4" o. to o. headwalls. The length along centerline roadway is 22'-6". There is no skew. Traffic shall be maintained utilizing stage construction.

No salvage.



LONGITUDINAL SECTION
(Looking South)



SECTION A-A

STATION 635+63.50
BUILT 20__ BY
STATE OF ILLINOIS
F.A. RT. 778 SEC. 3B-2
LOADING HS20-44
STR. NO. 076-2007

NAME PLATE
(See Hwy. Std. 515001)

STRUCTURE INDEX OF SHEETS

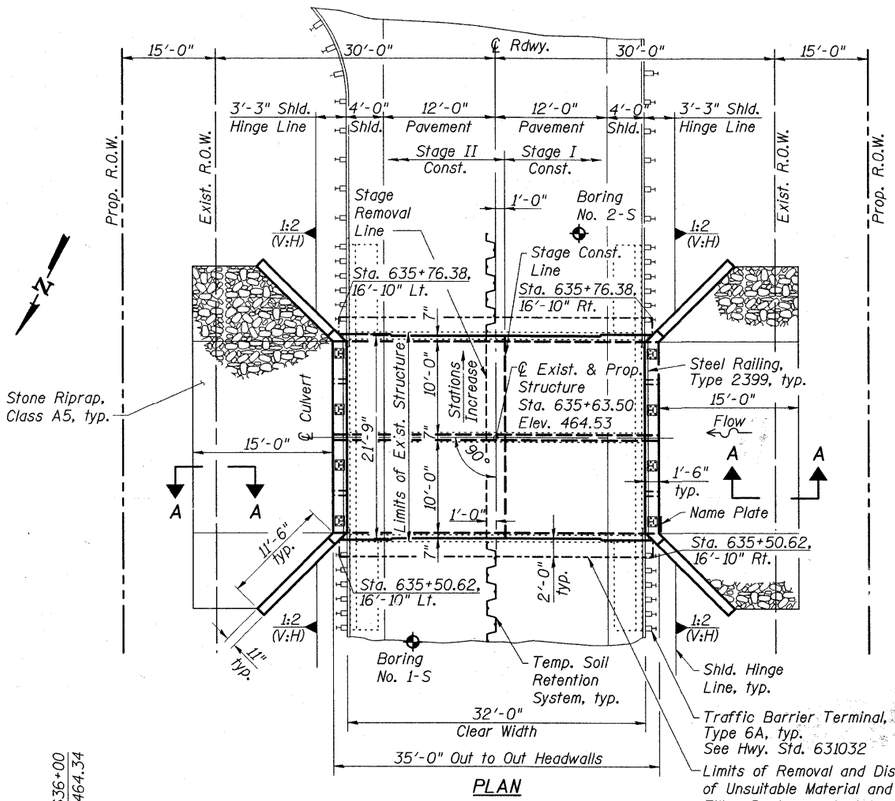
GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 615 Gr 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
4. For backfilling and embankment, see Standard Specifications. Backfill culvert excavation with Porous Granular Embankment, except the outer 3' at each end of the culvert shall be backfilled with impervious material, see sheet 2 of 7 for limits of PGE.
5. Precast alternate is not allowed.
6. 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.
7. The Rock Fill shall be capped with 6 in. of CA 7 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of the capping material shall be included in the pay item for Rock Fill - Replacement.
8. 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.

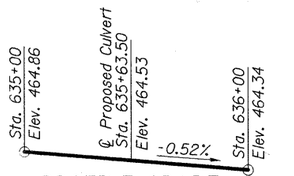
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Porous Granular Embankment	Cu. Yd.	190
Stone Riprap, Class A5	Sq. Yd.	114
Filter Fabric	Sq. Yd.	114
Removal of Existing Structures No. 2	Each	1
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	74
Reinforcement Bars, Epoxy Coated	Pound	16,340
Bar Splicers	Each	110
Steel Railing, Type 2399	Foot	44
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	84.7
Temporary Soil Retention System, (Location 2)	Sq. Ft.	167
Rock Fill - Replacement	Ton	151

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



PLAN



PROFILE GRADE
(Along ℄ Roadway)

DESIGN SCOUR ELEVATION TABLE

	Downstream	Upstream
Design Scour Elevation (Ft.)	453.35	453.45

WATERWAY INFORMATION

Drainage Area = 0.73 Sq. Mi.
Exist. Low Grade Elev. = 463.36 Ft. @ Sta. 637+70
Prop. Low Grade Elev. = 463.36 Ft. @ Sta. 637+70

Flood	Freq. Yr.	Q C.F.S.	Opening-Sq. Ft. Exist.	Opening-Sq. Ft. Prop.	Nat. H.W.E.	Head-Ft. Exist.	Head-Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	538	83.6	88.4	461.1	1.1	0.4	462.2	461.5
Design	50	822	95.6	100.4	461.7	1.5	0.6	463.2	462.3
Base	100	937	99.6	104.4	461.9	1.6	1.0	463.5	462.9
Exist. Overtopping	100	937	99.6	-	461.9	1.6	-	463.5	
Prop. Overtopping	300	1115	-	106.4	462.0	-	1.4	-	463.4

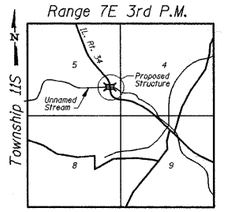
10 year velocity = 8.0 fps (Exist.); 6.1 fps (Prop.)

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.)



LOCATION SKETCH

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
MICHAEL T. DOOLEY
No. 5661
LICENSED STRUCTURAL ENGINEER
EXPIRES 11-30-2012
SIGNATURE
12-30-2010
DATE

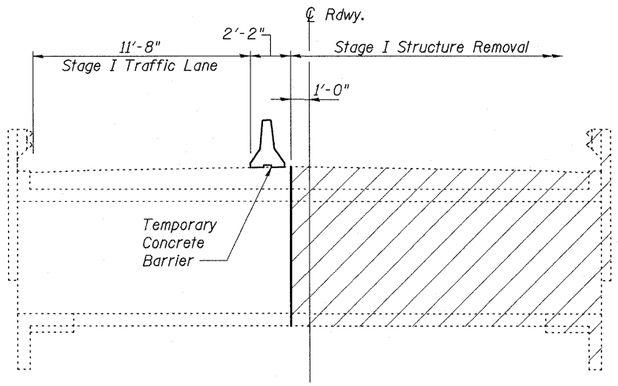
GENERAL PLAN
IL 34 OVER UNNAMED STREAM
FAP ROUTE 778 SECTION 3B-2
POPE COUNTY
STATION 635+63.50
STRUCTURE NO. 076-2007

FILE NAME = 0762007-98854-01-GenPln.dgn	USER NAME = HAS	DESIGNED - MTD 06/10	REVISED -	
		CHECKED - MJW 09/10	REVISED -	
	PLOT SCALE = 01 '1' / IN.	DRAWN - DWH 07/10	REVISED -	
	PLOT DATE = 12/27/2010 10:09:11 PM	CHECKED - MTD 12/10	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 7 SHEETS

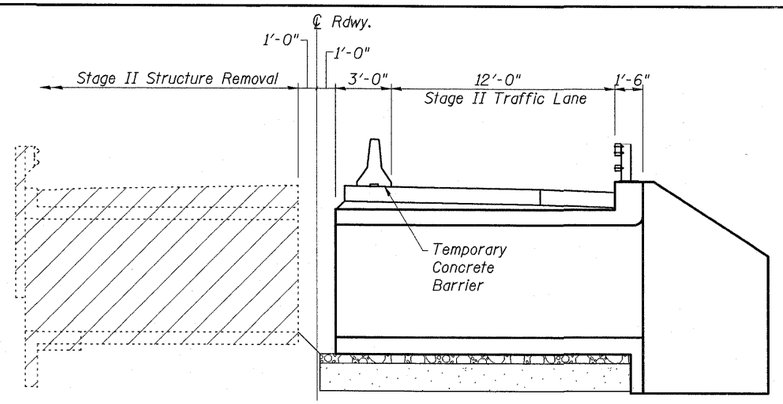
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	21
		CONTRACT NO. 98854		
	ILLINOIS	FED. AID PROJECT AID		



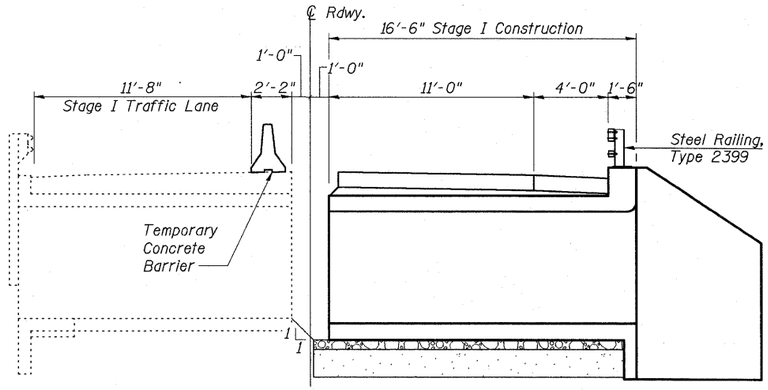
STAGE I REMOVAL

STAGE CONSTRUCTION NOTES

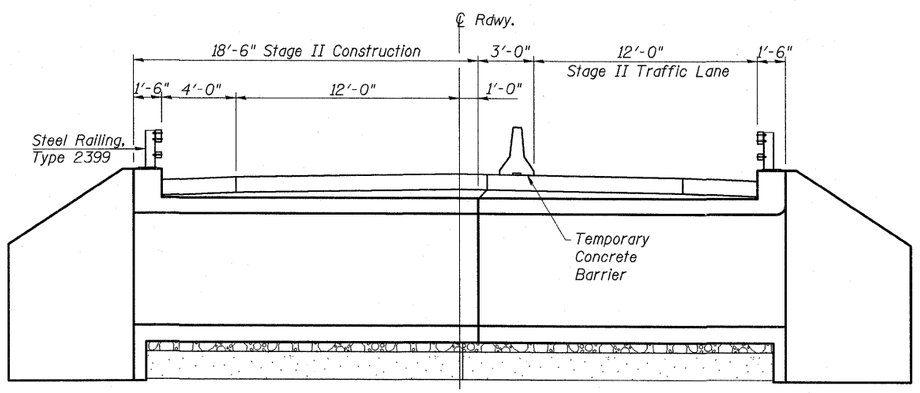
1. All staging sections are looking in the direction of increasing stations.
2. Hatched areas indicate removal.
3. Removal of existing side mounted steel railing is included with Removal of Existing Structures No. 2.



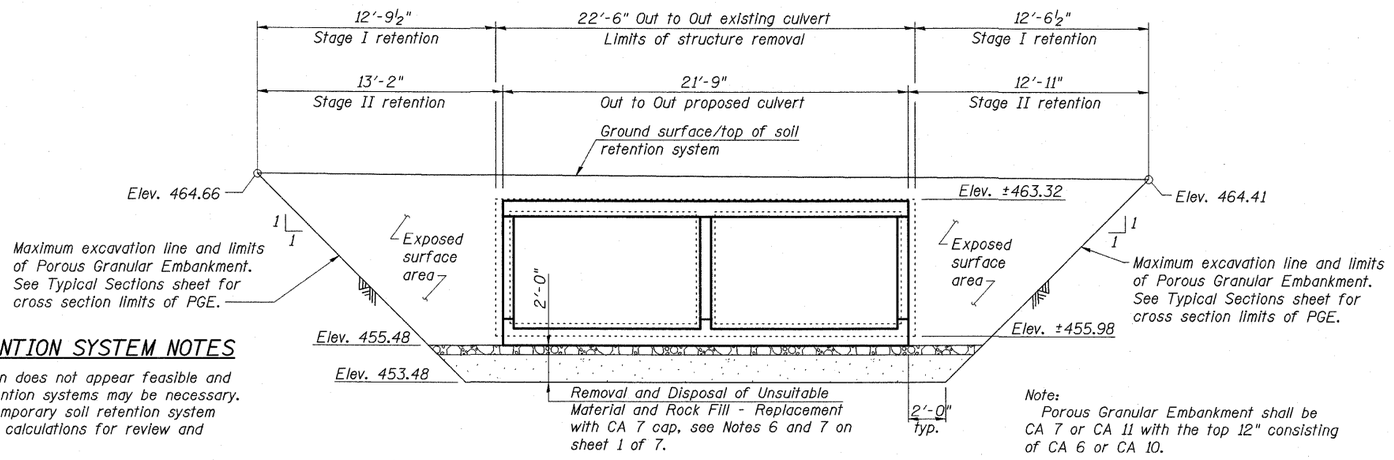
STAGE II REMOVAL



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION



Note:
Porous Granular Embankment shall be CA 7 or CA 11 with the top 12" consisting of CA 6 or CA 10.

SECTION THRU BARRELS SHOWING TEMPORARY SOIL RETENTION SYSTEM LIMITS

TEMPORARY SOIL RETENTION SYSTEM NOTES

1. 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.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations.

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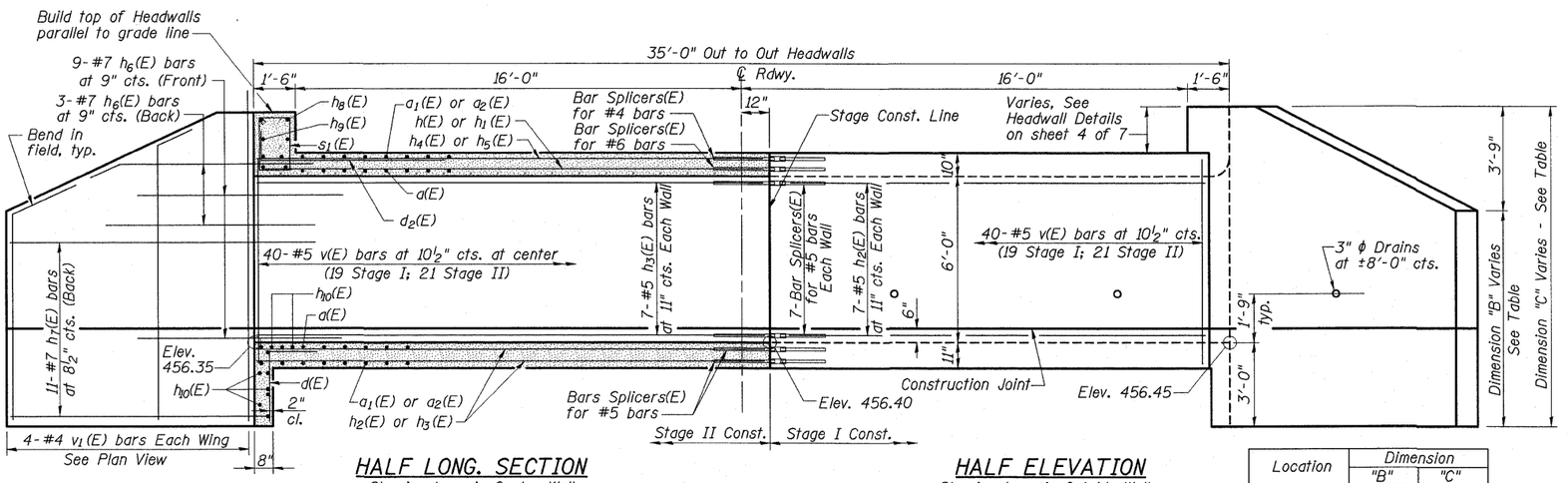
	PLOT SCALE = 0:1 '' / IN.	DRAWN - DWH 07/10	REVISED -	
	PLOT DATE = 12/27/2010 10:14:08 AM	CHECKED - MTD 12/10	REVISED -	

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 076-2007
SHEET NO. 2 OF 7 SHEETS

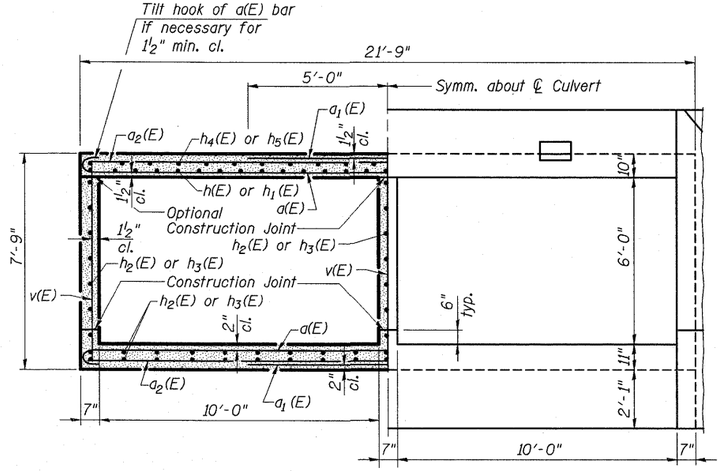
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	22
		CONTRACT NO. 98854		
	ILLINOIS FED. AID PROJECT AID			



HALF LONG. SECTION
Showing bars in Center Wall

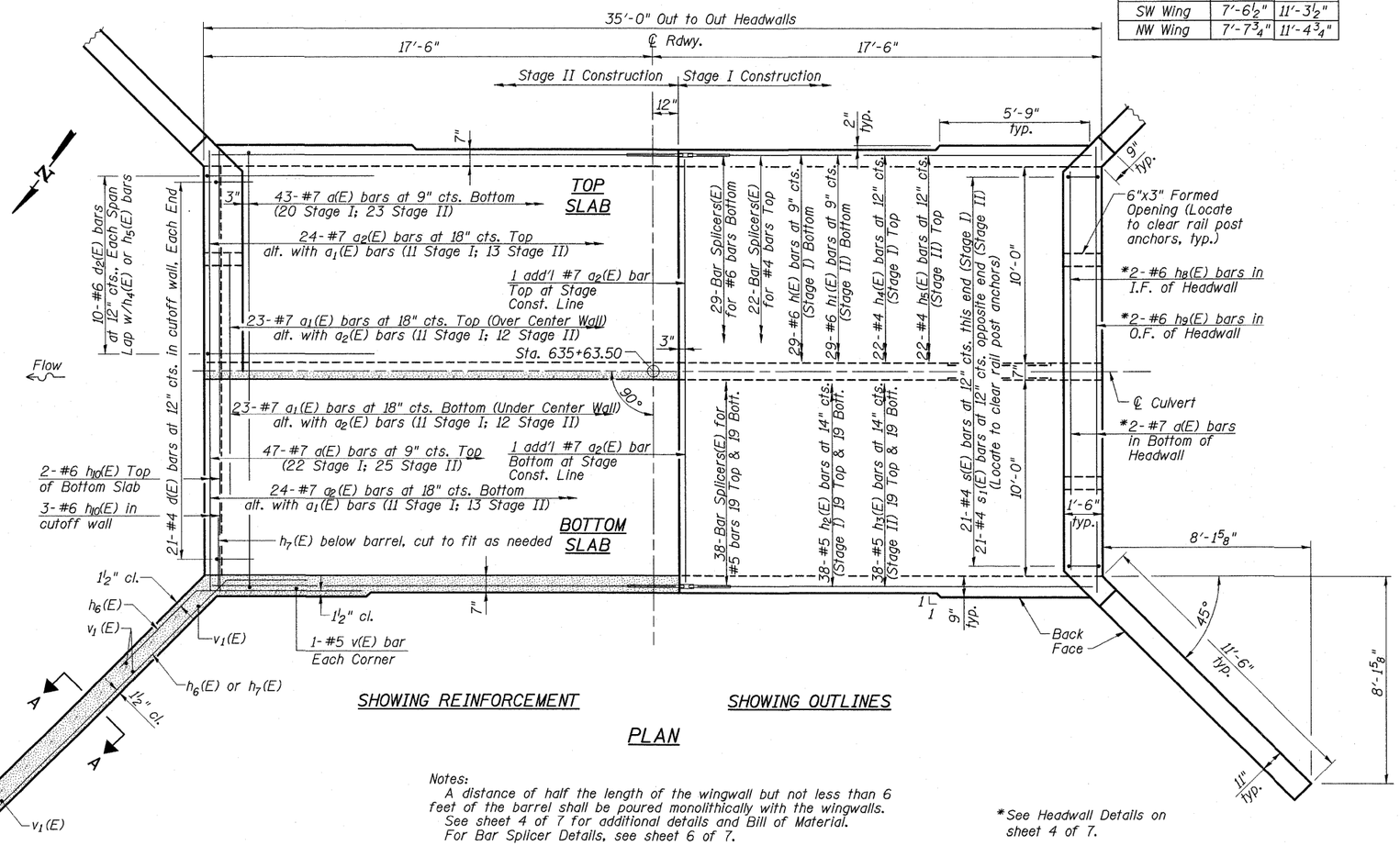
HALF ELEVATION
Showing bars in Outside Wall

Location	Dimension	
	"B"	"C"
SE Wing	7'-7 5/8"	11'-4 5/8"
NE Wing	7'-8 7/8"	11'-5 7/8"
SW Wing	7'-6 1/2"	11'-3 1/2"
NW Wing	7'-7 3/4"	11'-4 3/4"



HALF SECTION THRU BARREL

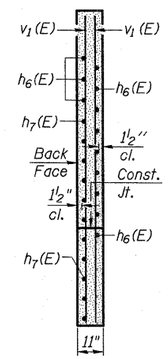
HALF END ELEVATION



SHOWING REINFORCEMENT

SHOWING OUTLINES

PLAN



SECTION A-A

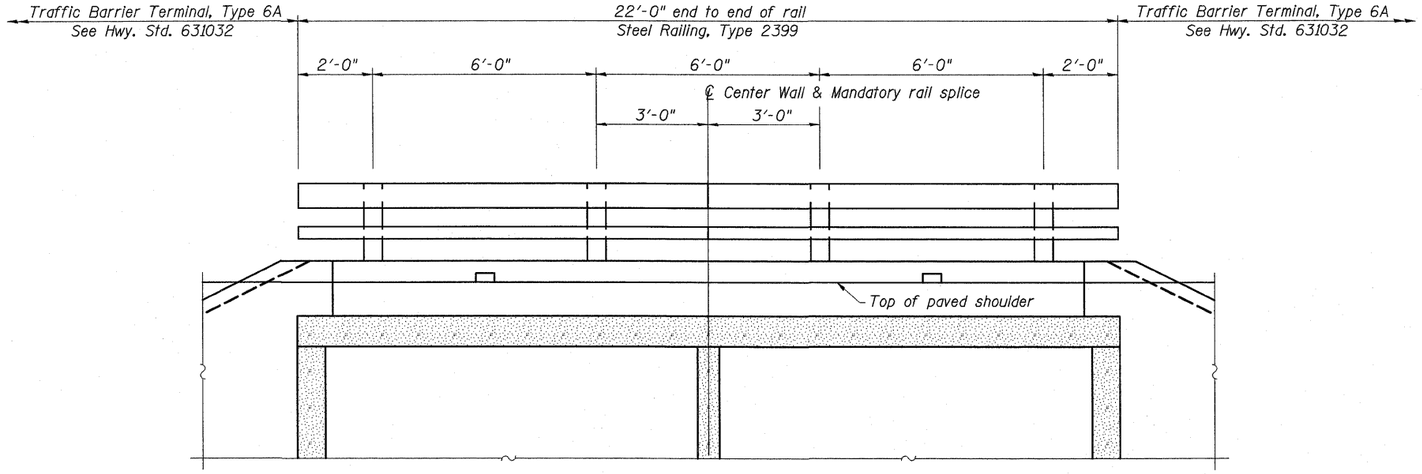
Notes:
A distance of half the length of the wingwall but not less than 6 feet of the barrel shall be poured monolithically with the wingwalls.
See sheet 4 of 7 for additional details and Bill of Material.
For Bar Splicer Details, see sheet 6 of 7.

*See Headwall Details on sheet 4 of 7.

(Sheet 1 of 2)

FILE NAME = 0762007-98854-03-BoxClvDtl.dgn	USER NAME = HAS	DESIGNED - MTD 06/10	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		CHECKED - MJW 09/10	REVISED -	**BOX CULVERT DETAILS STRUCTURE NO. 076-2007**
	PLOT SCALE = 0:1 ':' / IN.	DRAWN - DWH 07/10	REVISED -	SHEET NO. 3 OF 7 SHEETS
	PLOT DATE = 12/27/2010 10:14:27 AM	CHECKED - MTD 12/10	REVISED -	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	23
		CONTRACT NO. 98854		
		ILLINOIS FED. AID PROJECT AID		

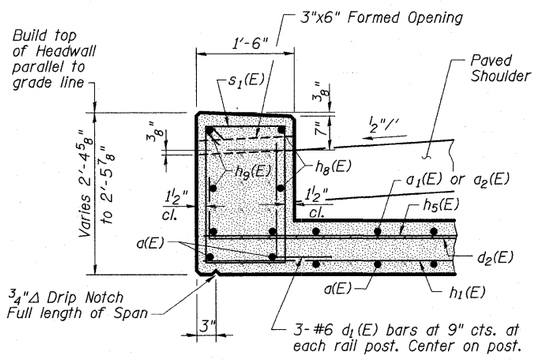


INSIDE ELEVATION OF RAILING

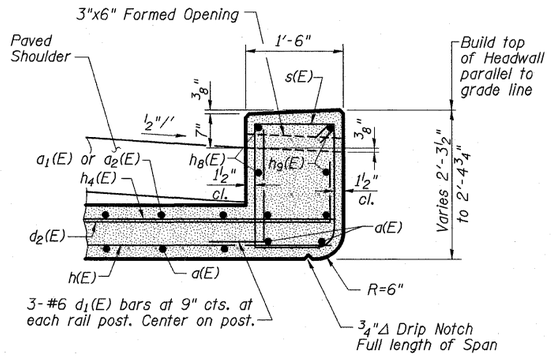
Note:
See sheet 5 of 7 for railing details.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	94	#7	23'-1"	
a_1(E)	46	#7	10'-0"	
a_2(E)	50	#7	21'-5"	
d(E)	42	#4	4'-5"	
d_1(E)	24	#6	2'-11"	
d_2(E)	40	#6	7'-6"	
h(E)	29	#6	16'-0"	
h_1(E)	29	#6	18'-2"	
h_2(E)	59	#5	16'-2"	
h_3(E)	59	#5	18'-2"	
h_4(E)	22	#4	16'-2"	
h_5(E)	22	#4	18'-2"	
h_6(E)	48	#7	8'-0"	
h_7(E)	44	#7	14'-10"	
h_8(E)	4	#6	20'-2"	
h_9(E)	4	#6	22'-4"	
h_{10}(E)	10	#6	21'-9"	
s(E)	21	#4	7'-1"	
s_1(E)	21	#4	7'-5"	
v(E)	124	#5	7'-5"	
v_1(E)	16	#4	11'-0"	
Concrete Box Culverts			Cu. Yd.	84.7
Reinforcement Bars, Epoxy Coated			Pound	16,340

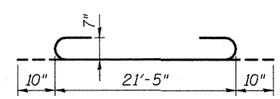


AT DOWNSTREAM END

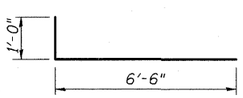


AT UPSTREAM END

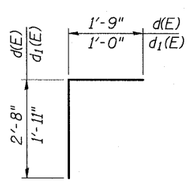
HEADWALL DETAILS



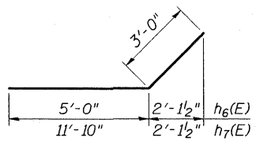
BAR a(E)



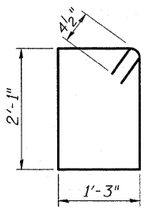
BAR d_2(E)



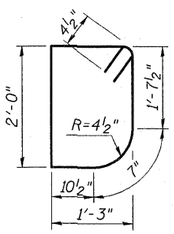
BARS d(E) & d_1(E)



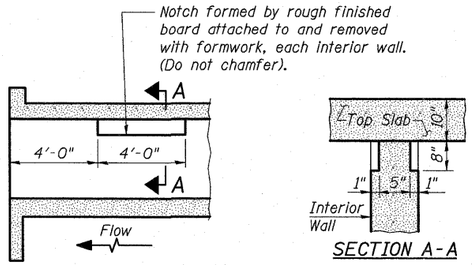
BARS h_6(E) & h_7(E)



BAR s_1(E)



BAR s(E)



LONGITUDINAL SECTION

SECTION A-A

PHOEBE NESTING SITE DETAILS

(Downstream End Only)

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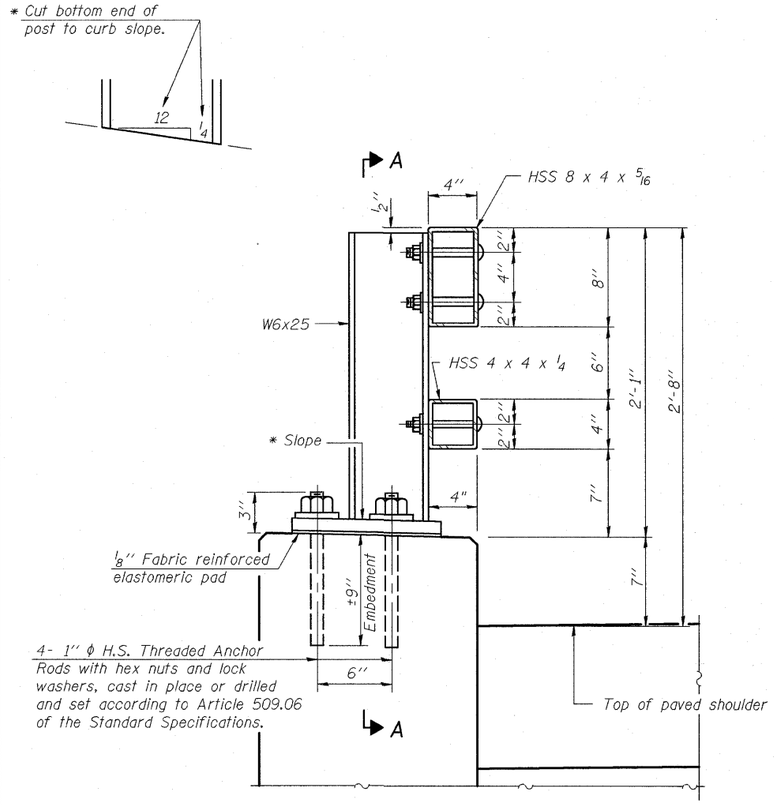
	PLOT SCALE = 0:1 '=' / IN.	DRAWN - DWH 07/10	REVISED -	
	PLOT DATE = 12/27/2010 10:14:41 AM	CHECKED - MTD 12/10	REVISED -	

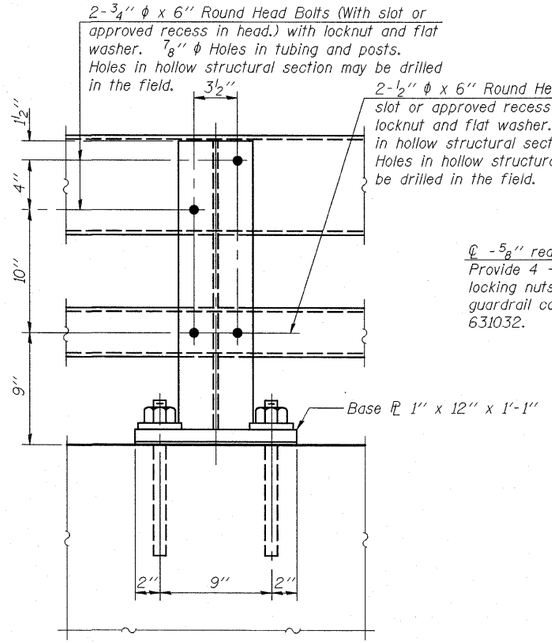
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS
STRUCTURE NO. 076-2007
SHEET NO. 4 OF 7 SHEETS

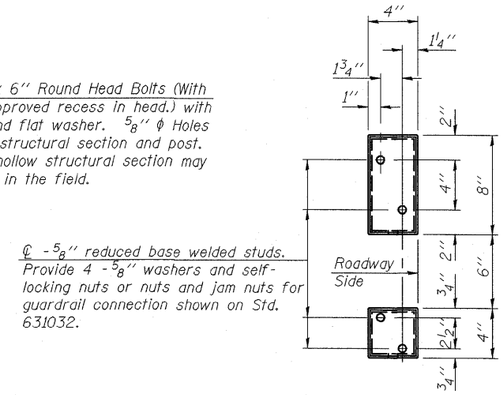
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	24
		CONTRACT NO. 98854		
	ILLINOIS	FED. AID PROJECT AID		



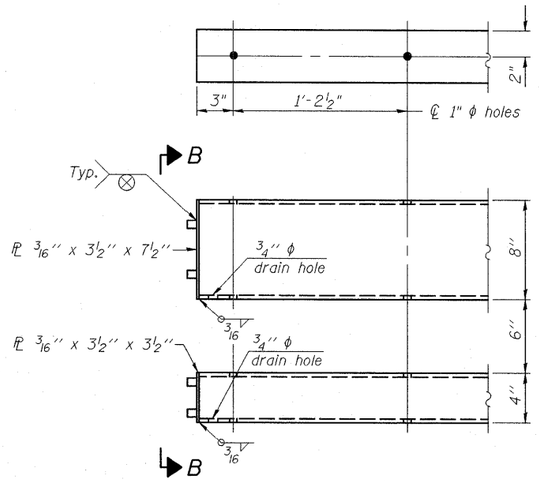
SECTION AT RAIL POST



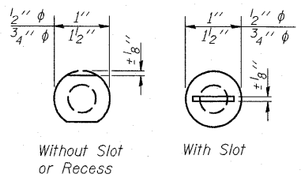
SECTION A-A



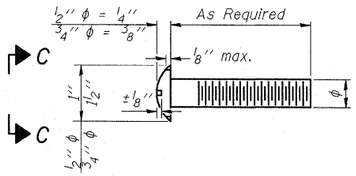
VIEW B-B



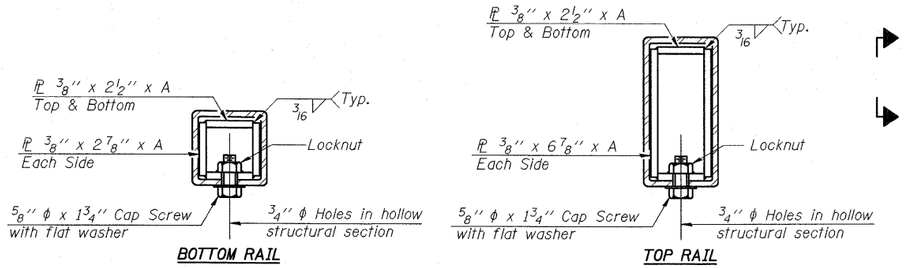
END OF RAIL DETAILS



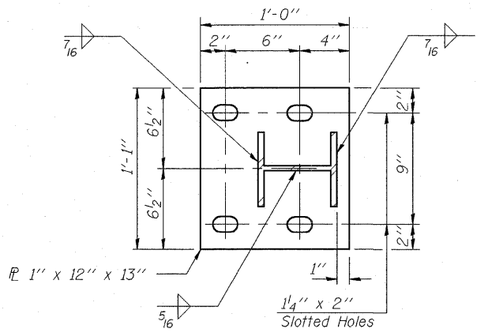
VIEW C-C



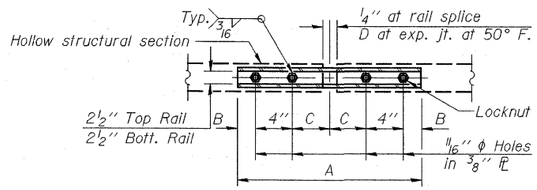
DETAIL OF 1/2'' ϕ & 3/4'' ϕ ROUND HEAD BOLTS



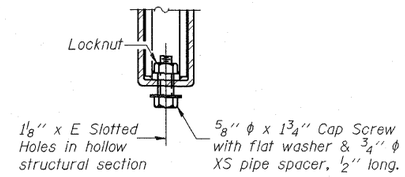
SECTIONS AT RAIL SPLICE



BASE PLATE DETAIL



PLAN-BOTT. SPLICE PL TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

(6'-3'' Maximum Post Spacing)

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	44

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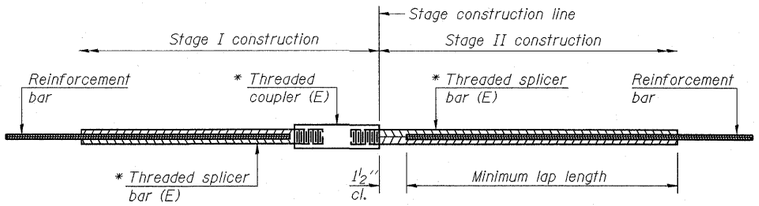
		CHECKED - MJW 09/10	REVISED -	
	PLOT SCALE = 01 '/ IN.	DRAWN - DWH 07/10	REVISED -	
	PLOT DATE = 12/27/2010 10:14:58 AM	CHECKED - MTD 12/10	REVISED -	

STEEL RAILING, TYPE 2399
STRUCTURE NO. 076-2007
SHEET NO. 5 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	25
		CONTRACT NO. 98854		
		ILLINOIS FED. AID PROJECT AID		



STANDARD BAR SPLICER ASSEMBLY

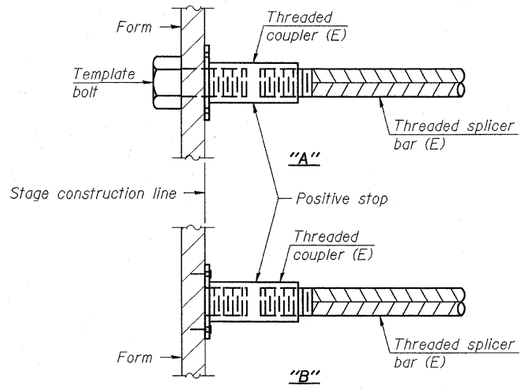
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

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

Threaded splicer bar length = min. lap length + 1½" + thread length

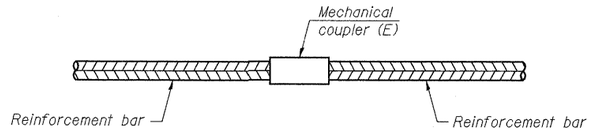
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Bottom slab, T & B	#5	38	3
Top slab, bottom	#6	29	3
Top slab, top	#4	22	3
Walls	#5	21	4



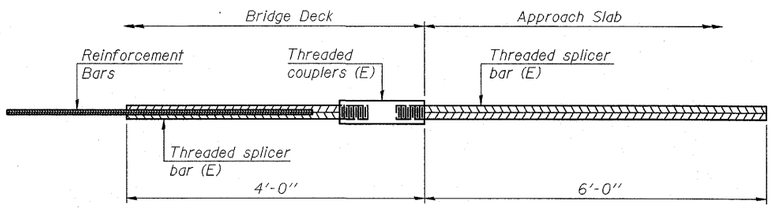
INSTALLATION AND SETTING METHODS

"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.



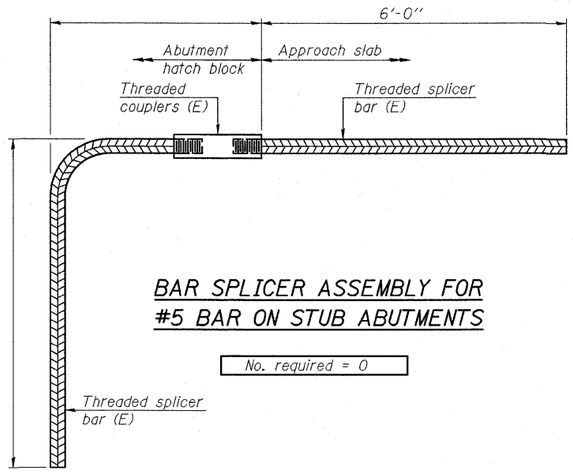
STANDARD MECHANICAL SPLICER

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 special provision for Mechanical Splicers.

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

BSD-1 7-1-10

FILE NAME = 0762007-98854-06-Bar-Dtl.dgn	USER NAME = HAS	DESIGNED - MTD 06/10	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 076-2007
		CHECKED - MJW 09/10	REVISED -		
	PLOT SCALE = 0:1 '' / IN.	DRAWN - DWH 07/10	REVISED -		SHEET NO. 6 OF 7 SHEETS
	PLOT DATE = 12/27/2010 10:15:11 AM	CHECKED - MTD 12/10	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	26
		CONTRACT NO. 98854		
	ILLINOIS FED. AID PROJECT AID			

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation Boring Log
Sheet 1 of 1

ILL Over Stream
Route: ILL 34 Structure Number: 076-2001 Date: 09/10/2003
Section 3B Bored By: Bryan Keller
County: Pope Location: 2.1 MI S. Saline Co. Checked By: Rob Graeff

Boring No 1-S
Station 704+01
Offset 11' RT CL
Ground Surface 419.9 Ft

Surf Wat Elev: 410.9
Ground Water Elevation
when Drilling 407.9
At Completion
At: Hrs:

DEPTH	BLOW	Qu tsf	W%	DESCRIPTION
				Bituminous Pavement
418.4				
	1			Soft to medium, very moist, brown,
	1	0.5B	19	Clay Loam A-6
	2			
415.4				
5.0	WH			Soft, very moist, brown, Silty
	1	0.4B	18	Clay Loam A-6 with some Gravel
	1			
	WH			
	WH	0.4B	21	
	WH			
410.4				
10.0	2			Medium, moist, brown, Sandy
	10		13	Gravel
	10			38% Sand; 9% Silt
				5% Clay; 46% Gravel
407.9				
	1			Very dense, wet, brown to grey,
	23			Sandy Gravel
	63			
405.4				
15.0	100/6"			Hard, dry, grey, Clay Shale 404.9
				Cored from 15.0 ft to 20.0 ft
				Hard, dry, grey, Sandstone with
				Clay Shale Seams and layers
				50% Recovery
				0% RQD
399.9				
20.0				Cored from 20.0 ft to 25.0 ft.
				Hard, dry, grey Limestone with
				Clay Shale seams
				47% Recovery
				43% RQD
394.9				
25.0				

DEPTH	Cored from 25.0 ft to 30.0 ft
	Hard dry, grey, Limestone with
	Clay Shale Seams and Layers
	88% Recovery
	0% RQD
389.9	
30.0	Cored from 30.0 ft to 35.0 ft
	Hard, dry, grey, Clay Shale
	100% Recovery
	45% RQD
384.9	
35.0	Cored from 35.0 ft to 40.0 ft
	Hard, dry, grey, Clay Shale
	100% Recovery
	33% RQD
379.9	
40.0	Bottom of hole = 40.0 ft.
	Free water observed at 12.0 ft.
	Elevation referenced to crown of finished roadway at CL of Structure; Elevation = 420.0 ft.
45.0	To convert "N" values to "N60" values multiply by 1.25.
50.0	

N-Std Pentr 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

Bridge Foundation Boring Log
Sheet 1 of 1

ILL Over Stream
Route: ILL 34 Structure Number: 076-2001 Date: 09/11/2003
Section 3B Bored By: Bryan Keller
County: Pope Location: 2.1 MI S. Saline Co. Checked By: Rob Graeff

Boring No 2-S
Station 704+80
Offset 11' LT CL
Ground Surface 419.7 Ft

Surf Wat Elev: 410.9
Ground Water Elevation
when Drilling 410.2
At Completion
At: Hrs:

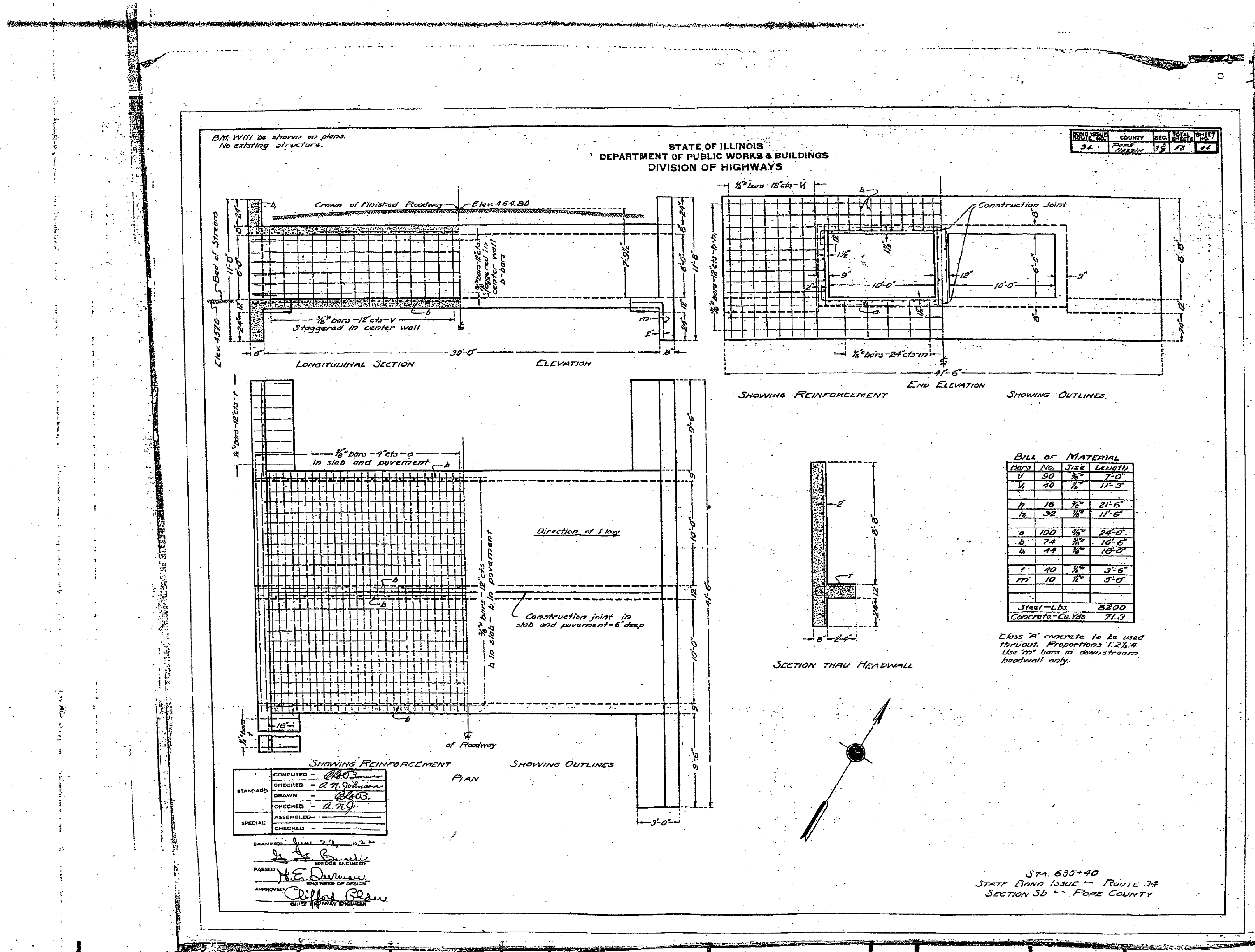
DEPTH	BLOW	Qu tsf	W%	DESCRIPTION
				Bituminous Pavement
418.2				
	1			Soft, very moist, brown, Silty
	1	0.3B	19	Clay Loam A-6
	1			
5.0	WH			
	WH	0.4B	25	
	1			
	WH			
	WH	0.4B	19	
	WH			
410.2				
10.0	1			Medium, wet, brown, Sandy
	6		15	Gravel
	5			37% Sand; 13% Silt
				8% Clay; 42% Gravel
407.7				
407.2	100/1"			Hard, dry, brown, Sandstone
				Cored from 12.5 ft to 17.5 ft
				Hard, dry, brown to grey,
				Sandstone with Clay Shale
				Seams
15.0				100% Recovery
				45% RQD
402.2				
				Cored from 17.5 ft to 22.5 ft
				Hard, dry, grey, Sandstone
				100% Recovery
				27% RQD
20.0				
397.2				
				Cored from 22.5 ft to 27.5 ft
				Hard dry, grey, Limestone with
				Clay Shale seams and layers
				97% Recovery
				71% RQD
25.0				

DEPTH	
392.2	
	Cored from 27.5 ft to 32.0 ft.
	Hard, dry, grey, Clay Shale
	97% Recovery
	87% RQD
30.0	
387.2	
	Bottom of hole = 32.5 ft.
	Free water observed at 9.5 ft.
35.0	Elevation referenced to Crown of finished roadway at CL of Structure; Elev = 420.0 ft
	To convert "N" valuesto "N60" values multiply by 1.25.
40.0	
45.0	
50.0	

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

FILE NAME = 0762007-98854-07-Soil.dgn	USER NAME = HAS	DESIGNED - MTD 06/10	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**BORING LOGS STRUCTURE NO. 076-2007**
		CHECKED - MJW 09/10	REVISED -		SHEET NO. 7 OF 7 SHEETS
	PLOT SCALE = 0:1 '1' / IN.	DRAWN - DWH 07/10	REVISED -		
	PLOT DATE = 12/27/2010 10:15:28 AM	CHECKED - MTD 12/10	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	27
		CONTRACT NO. 98854		
		ILLINOIS FED. AID PROJECT AID		



BILL OF MATERIAL

Bars	No.	Size	Length
V	90	3/8"	7'-0"
V_1	40	1/2"	11'-3"
h	16	3/8"	21'-6"
h_1	32	3/8"	11'-6"
a	190	3/8"	24'-0"
b	74	3/8"	16'-6"
b_1	44	3/8"	18'-0"
t	40	1/2"	3'-6"
m	10	1/2"	5'-0"
Steel—Lbs.			8200
Concrete—Cu. Yds.			71.3

Class "A" concrete to be used thruout. Proportions 1:2½:4. Use "m" bars in downstream headwall only.

FILE NAME = D998854-sht-rem02.dgn	USER NAME = HAS	DESIGNED - MTD	REVISED -
		DRAWN - HAS	REVISED -
	PLOT SCALE = 0.0833 '/ IN.	CHECKED - RDP	REVISED -
	PLOT DATE = 12/27/2010 10:24:31 AM	DATE - 12/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS - FOR INFORMATION ONLY
STRUCTURE NO. 076-2005

SCALE: | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	28

CONTRACT NO. 98854

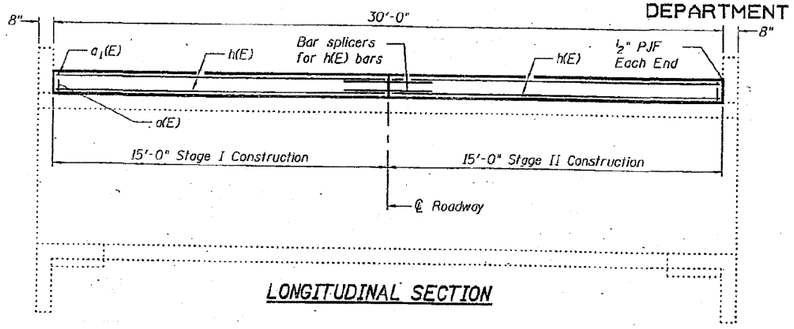
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT AID

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

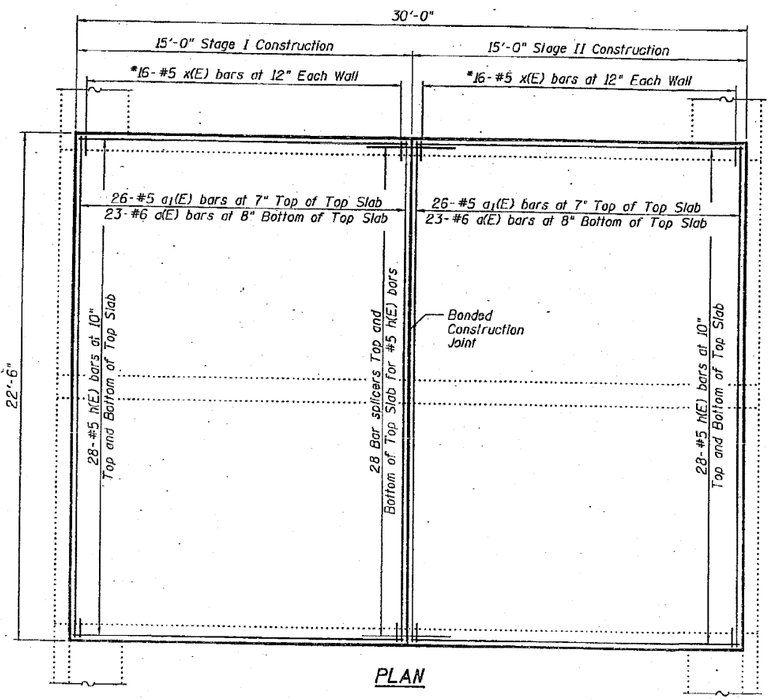
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 1
2 SHEETS

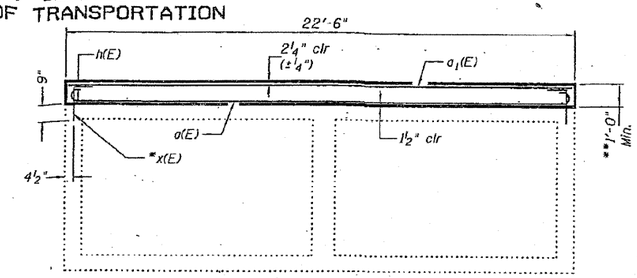
Contract Number: ---



LONGITUDINAL SECTION



PLAN



END ELEVATION

**Remove the existing wearing surface and pavement to the top of the existing slab and replace as shown. Slope to match existing roadway. Cost of all removal is included with Hot-Mix Asphalt Surface Removal.

*Epoxy grout x(E) bars in 9" min. holes according to Article 584 of the Standard Specifications.

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

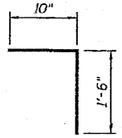
Reinforcement bars designated (E) shall be epoxy coated.

The deck surface shall have its final finish tined according to Article 420.09(a)(1) of the Standard Specifications. Cost included with Concrete Superstructures.

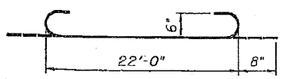
FOR INFORMATION ONLY

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	46	#6	23'-4"	
a_1(E)	56	#5	22'-2"	
h(E)	112	#5	14'-8"	
x(E)	64	#5	2'-4"	
Bar Splicers			Each	56
HMA Surface Removal			Sq. Yd.	75
Concrete Superstructure			Cu. Yd.	25
Reinforcement Bars, Epoxy Coated			Lbs.	4,680



BAR x(E)



a(E) BAR

DESIGN STRESSES

FIELD UNITS

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

DESIGNED	V.H.V.
CHECKED	-
DRAWN	Drew Christopher
CHECKED	V.H.V.

EXAMINED
PASSED
ENGINEER OF STRUCTURAL SERVICES
ENGINEER OF BRIDGES AND STRUCTURES

PRE-FINAL
DATE: 12/05/2007

Expires: November 30, 2008

SLAB DETAILS
SBI 34
POPE COUNTY
SN 076-2005

SLT-99-001-07

...\projects\mac00034\0762005.dgn 12/5/2007 3:24:38 PM

NAME =	USER NAME = HAS	DESIGNED - MTD	REVISED -
3854-sht-rem03.dgn		DRAWN - HAS	REVISED -
	PLOT SCALE = 0.0833 ' / IN.	CHECKED - RDP	REVISED -
	PLOT DATE = 12/27/2010 10:24:49 AM	DATE - 12/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS – FOR INFORMATION ONLY
STRUCTURE NO. 076-2005

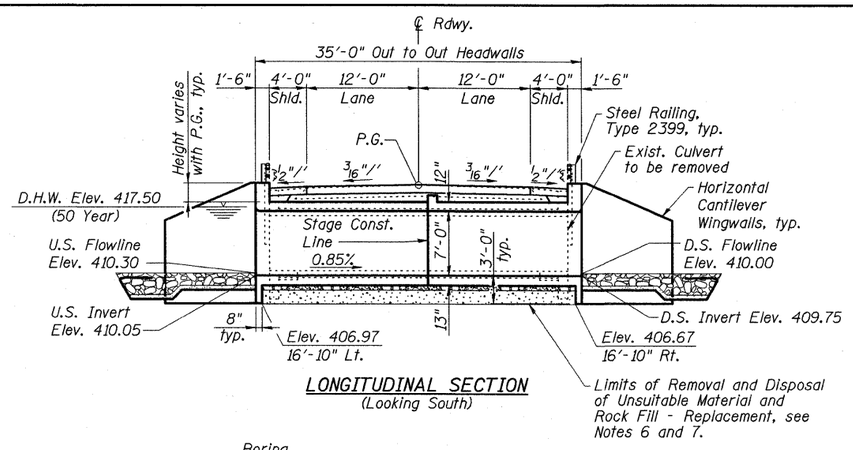
SCALE: | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	29
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT AID		

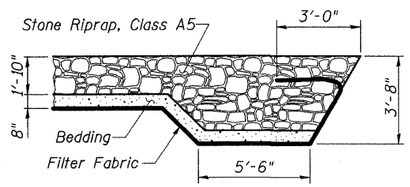
BENCHMARK: BM 101-RR
spike in power pole Sta.
705+35, 35' Rt. southeast
of Structure No. 076-2001.
Elev. 414.90

EXISTING STRUCTURE:
SN 076 2001 was originally built in 1923 as Route 34, Section 3B. It is a double barrel 12'S by 6'R reinforced concrete box culvert with L-Type wing walls and side mounted steel railing. The barrel length is 32'-0" o. to o. headwalls. The length along centerline roadway is 26'-6" There is no skew. Traffic shall be maintained utilizing stage construction.

No salvage.



LONGITUDINAL SECTION
(Looking South)



SECTION A-A

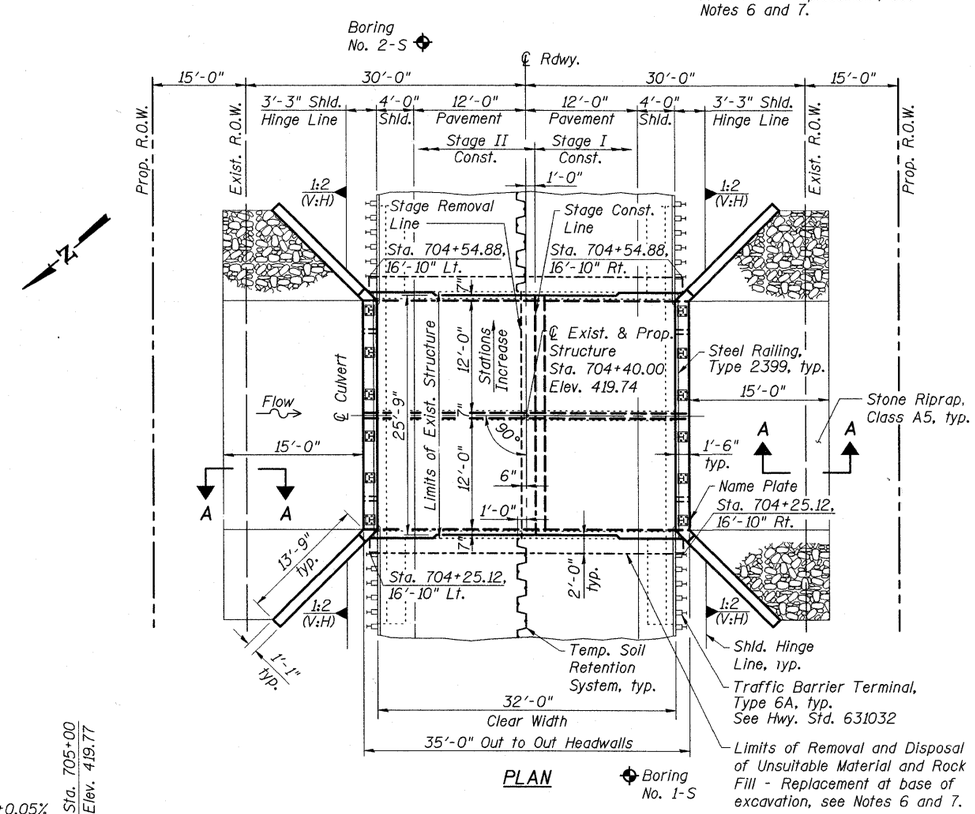
STATION 704+40
BUILT 20__ BY
STATE OF ILLINOIS
F.A. RT. 778 SEC. 3B-1
LOADING HS20-44
STR. NO. 076-2006

NAME PLATE
(See Hwy. Std. 515001)

STRUCTURE INDEX OF SHEETS

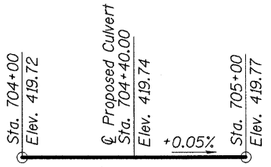
GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
4. For backfilling and embankment, see Standard Specifications. Backfill culvert excavation with Porous Granular Embankment, except the outer 3' at each end of the culvert shall be backfilled with impervious material. See sheet 2 of 7 for limits of PGE.
5. Precast alternate is not allowed.
6. 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.
7. The Rock Fill shall be capped with 6 in. of CA 7 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of the capping material shall be included in the pay item for Rock Fill - Replacement.
8. The elevation of Top of Rock varies between the soil borings taken at the site. If rock is encountered within the plan limits of the bottom slab of the box culvert it shall be excavated to 6" below the bottom of the slab and replaced with the capping material for Rock Fill - Replacement. Rock encountered within the plan limits of the cut-off walls and wingwalls shall be excavated according to Article 502.05 of the Standard Specifications.
9. The plan quantity of Rock Excavation for Structures is based on an assumed Top of Rock elevation of 407.7. The final quantity, if any, will be measured for payment according to Article 502.12(b)(2) of the Standard Specifications.
10. 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.



PLAN

Boring No. 1-S



PROFILE GRADE
(Along ℄ Roadway)

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
ENGINEER OF BRIDGES AND STRUCTURES

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Porous Granular Embankment	Cu. Yd.	283
Stone Riprap, Class A5	Sq. Yd.	132
Filter Fabric	Sq. Yd.	132
Removal of Existing Structures No. 1	Each	1
Rock Excavation for Structures	Cu. Yd.	3
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	84
Reinforcement Bars, Epoxy Coated	Pound	20,900
Bar Splicers	Each	139
Steel Railing, Type 2399	Foot	53
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	121.3
Temporary Soil Retention System, (Location 1)	Sq. Ft.	280
Rock Fill - Replacement	Ton	172

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

DESIGN SCOUR ELEVATION TABLE

	Downstream	Upstream
Design Scour Elevation (Ft.)	406.75	407.05

WATERWAY INFORMATION

Drainage Area = 0.73 Sq. Mi.
Exist. Low Grade Elev. = 419.72 Ft. @ Sta. 704+00
Prop. Low Grade Elev. = 419.72 Ft. @ Sta. 704+00

Flood	Freq. Yr.	Q C.F.S.	Opening-Sq. Ft. Exist.	Opening-Sq. Ft. Prop.	Nat. H.W.E.	Head-Ft. Exist.	Head-Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	825	132.7	141.6	416.2	0.9	0.7	417.1	416.9
Design	50	1330	144.0	168.0	417.5	1.9	1.2	419.4	418.7
Exist. Overtopping	70	1440	144.0	-	417.6	2.3	-	419.9	-
Base	100	1550	144.0	168.0	417.9	2.3	1.7	420.2	419.6
Prop. Overtopping	110	1620	-	168.0	418.0	-	1.9	-	419.9

10 year velocity = 6.2 fps (Exist.); 5.8 fps (Prop.)

DESIGN SPECIFICATIONS

2002 AASHTO

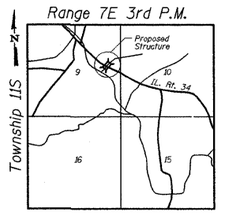
LOADING HS20-44

Allow 50 psf for future wearing surface.

DESIGN STRESSES

FIELD UNITS

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



LOCATION SKETCH

STATE OF ILLINOIS
MICHAEL T. DOOLEY
No. 5661
LICENSED STRUCTURAL ENGINEER

EXPIRES 11-30-2012

Michael T. Dooley
SIGNATURE

12-30-2010
DATE

GENERAL PLAN
IL 34 OVER UNNAMED STREAM
FAP ROUTE 778 - SECTION 3B-1
POPE COUNTY
STATION 704+40.00
STRUCTURE NO. 076-2006

FILE NAME = 0762006-98854-01-GenPln.dgn	USER NAME = HAS	DESIGNED - MTD 06/10	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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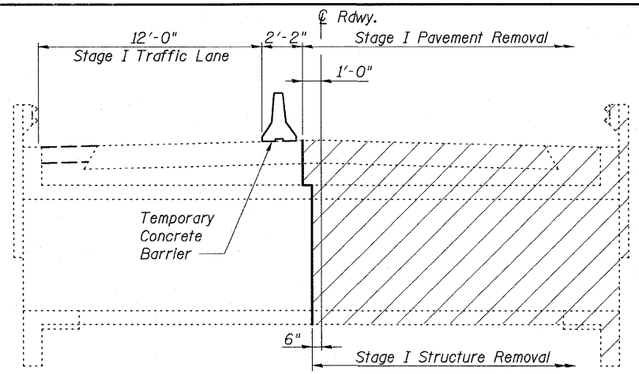
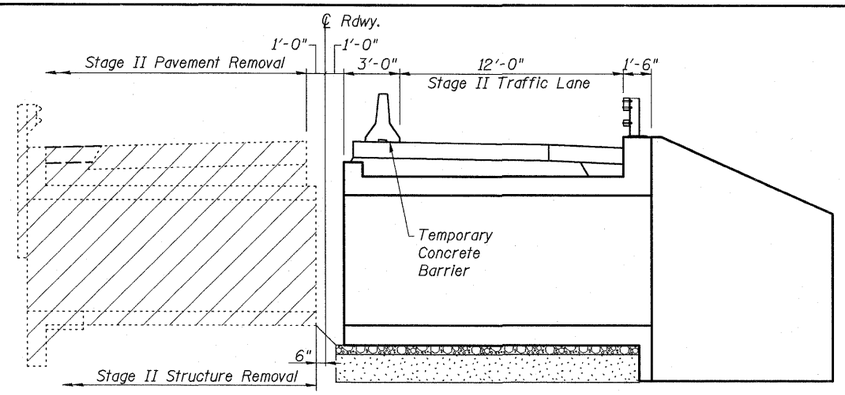
		CONTRACT NO. 98854		
	ILLINOIS FED. AID PROJECT AID			



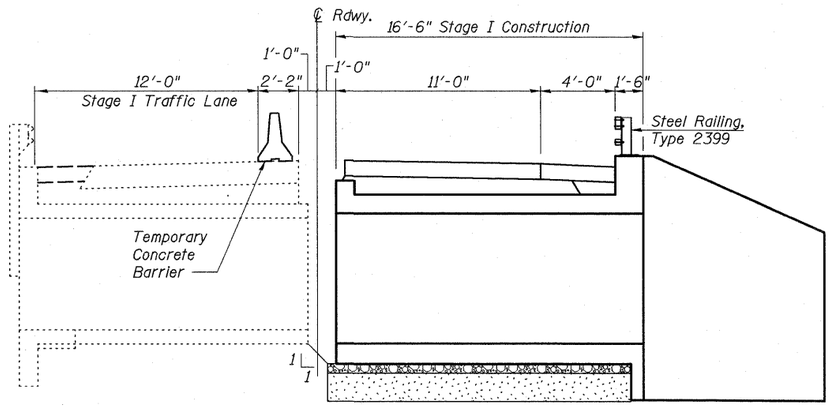
STAGE I REMOVAL

STAGE CONSTRUCTION NOTES

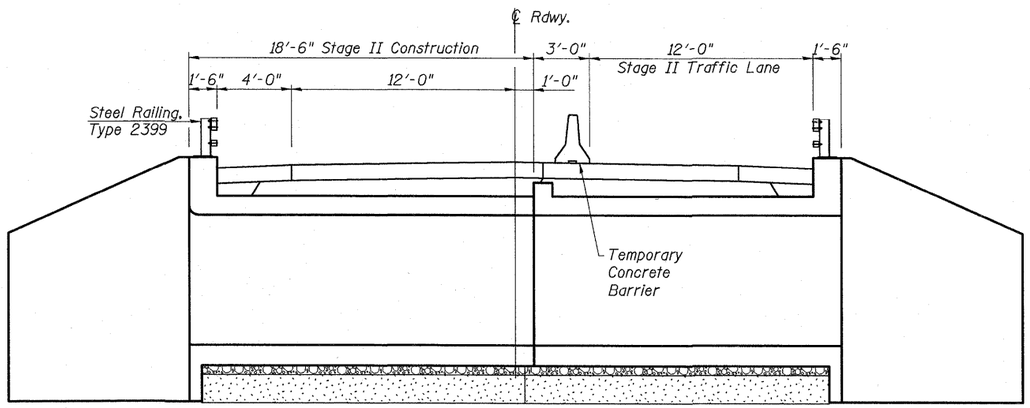
1. All staging sections are looking in the direction of increasing stations.
2. Hatched areas indicate removal.
3. Removal of existing side mounted steel railing is included with Removal of Existing Structures No. 1.



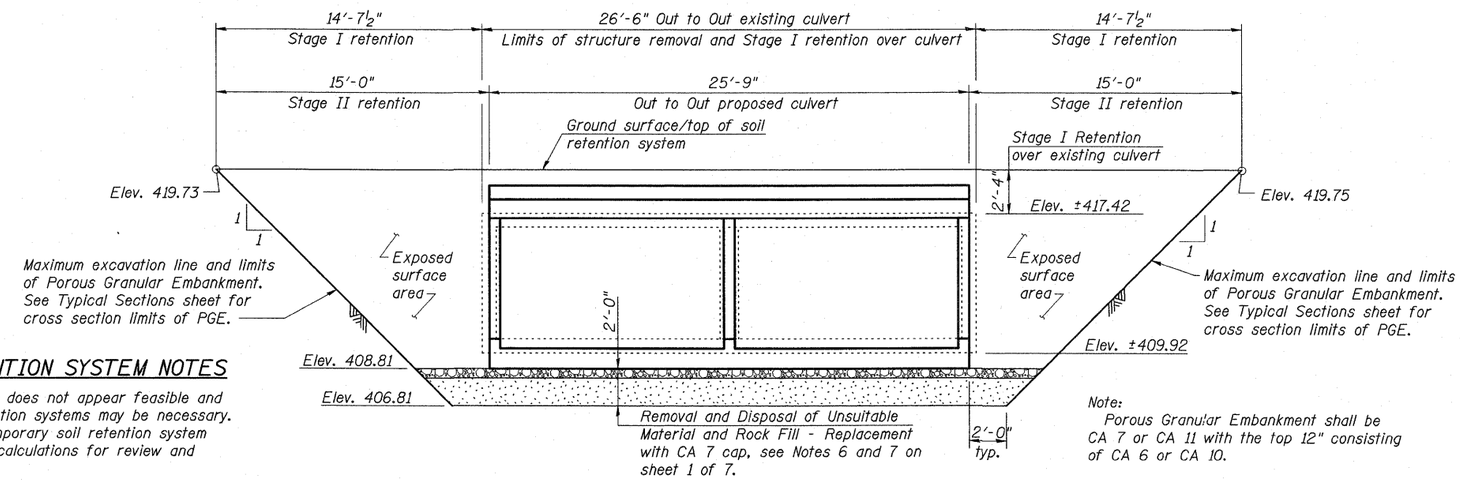
STAGE II REMOVAL



STAGE I CONSTRUCTION



STAGE II CONSTRUCTION



TEMPORARY SOIL RETENTION SYSTEM NOTES

1. 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.
2. Plan dimensions and details relative to existing plans are subject to nominal construction variations.

Note:
Porous Granular Embankment shall be CA 7 or CA 11 with the top 12" consisting of CA 6 or CA 10.

SECTION THRU BARRELS SHOWING TEMPORARY SOIL RETENTION SYSTEM LIMITS

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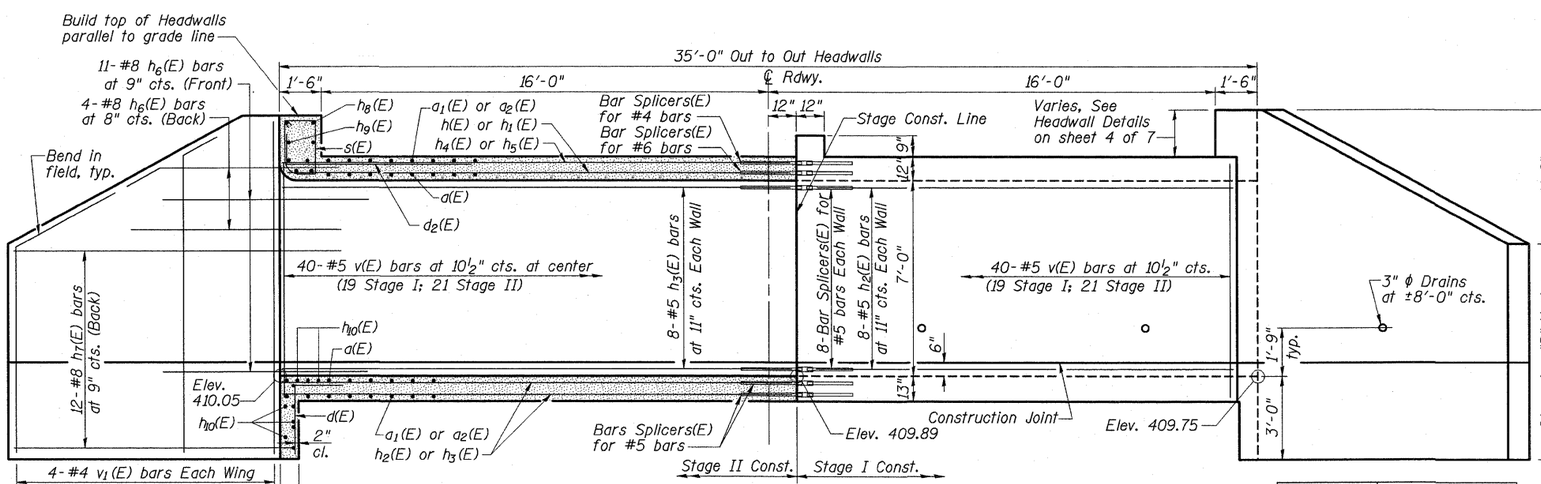
	PLOT SCALE = 0:1 '' / IN.	DRAWN - DWH 06/10	REVISED -	
	PLOT DATE = 12/27/2010 10:26:43 AM	CHECKED - MTD 12/10	REVISED -	

GENERAL PLAN
STRUCTURE NO. 076-2006
SHEET NO. 2 OF 7 SHEETS

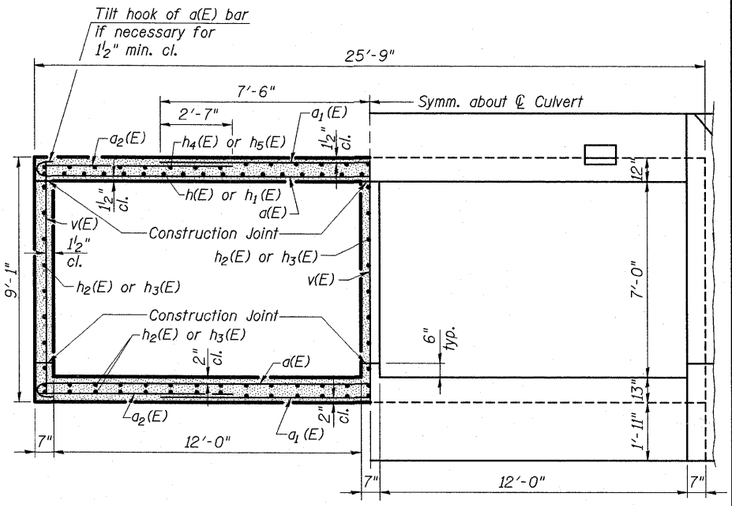
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	31
		CONTRACT NO. 98854		
	ILLINOIS FED. AID PROJECT AID			



HALF LONG. SECTION
Showing bars in Center Wall

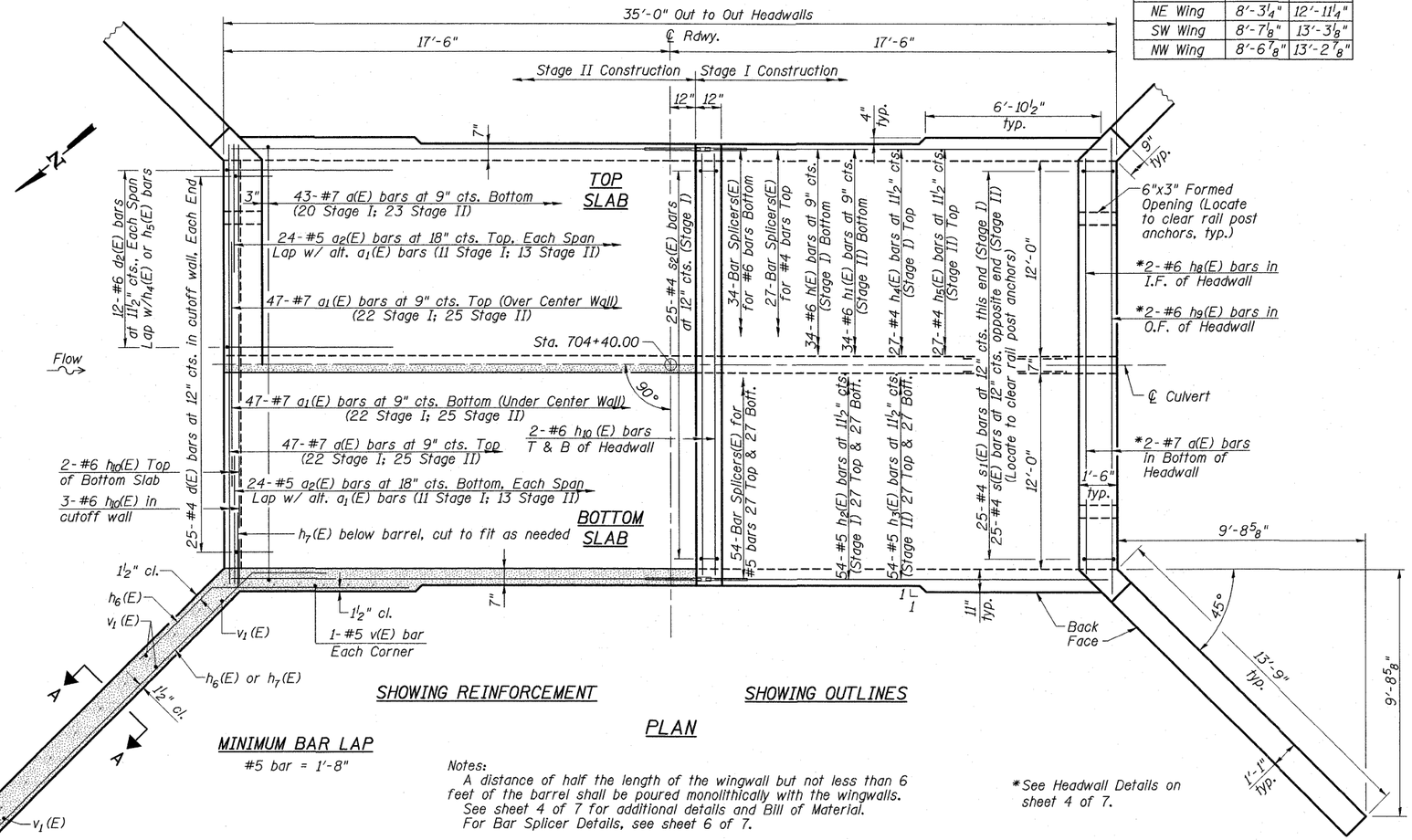
HALF ELEVATION
Showing bars in Outside Wall

Location	Dimension	
	"B"	"C"
SE Wing	8'-3½"	12'-11½"
NE Wing	8'-3¼"	12'-11¼"
SW Wing	8'-7⅛"	13'-3⅛"
NW Wing	8'-6⅞"	13'-2⅞"



HALF SECTION THRU BARREL

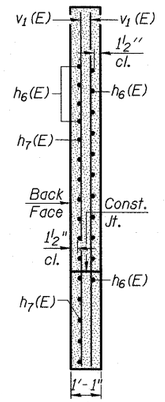
HALF END ELEVATION



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 7 for additional details and Bill of Material.
For Bar Splicer Details, see sheet 6 of 7.

*See Headwall Details on sheet 4 of 7.

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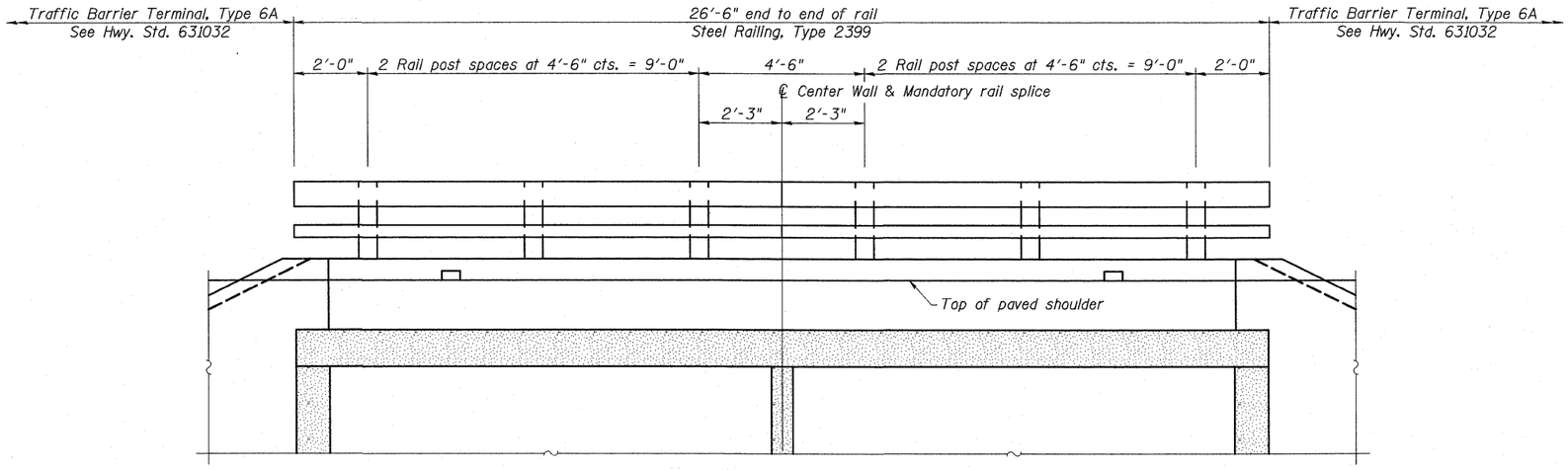
	PLOT DATE = 12/27/2010 10:27:02 AM	CHECKED - MTD 12/10	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BOX CULVERT DETAILS
STRUCTURE NO. 076-2006
SHEET NO. 3 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	32
		CONTRACT NO. 98854		
		ILLINOIS FED. AID PROJECT AID		

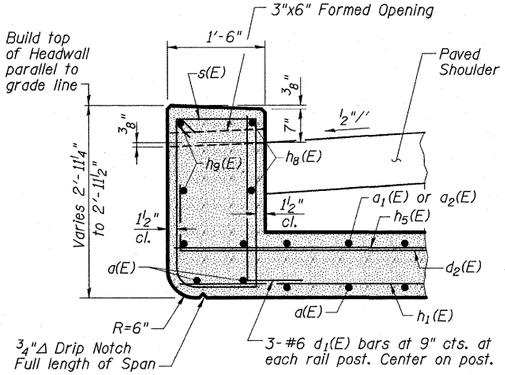


INSIDE ELEVATION OF RAILING

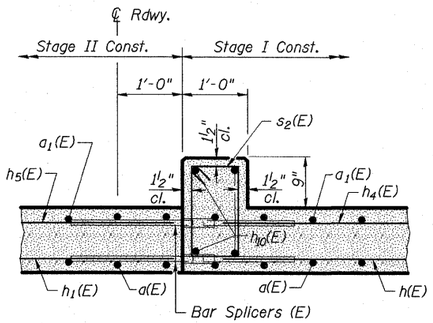
Note:
See sheet 5 of 7 for railing details.

BILL OF MATERIAL

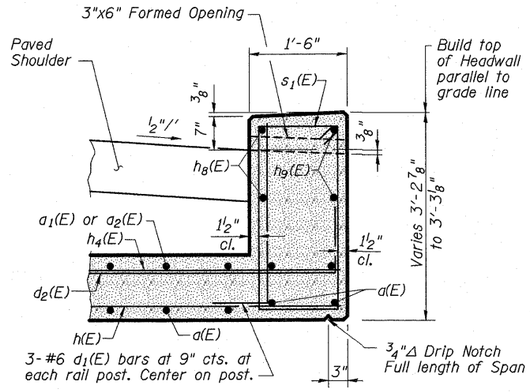
Bar	No.	Size	Length	Shape
a(E)	94	#7	27'-1"	
a_1(E)	94	#7	15'-0"	
a_2(E)	96	#5	8'-0"	
d(E)	50	#4	4'-5"	
d_1(E)	36	#6	3'-7"	
d_2(E)	48	#6	7'-6"	
h(E)	34	#6	16'-2"	
h_1(E)	34	#6	18'-0"	
h_2(E)	78	#5	16'-2"	
h_3(E)	78	#5	18'-2"	
h_4(E)	27	#4	16'-2"	
h_5(E)	27	#4	18'-2"	
h_6(E)	60	#8	8'-0"	
h_7(E)	48	#8	17'-3"	
h_8(E)	4	#6	24'-7"	
h_9(E)	4	#6	26'-7"	
h_{10}(E)	14	#6	25'-5"	
s(E)	25	#4	8'-2"	
s_1(E)	25	#4	8'-11"	
s_2(E)	25	#4	5'-1"	
v(E)	124	#5	8'-9"	
v_1(E)	16	#4	12'-8"	
Concrete Box Culverts			Cu. Yd.	121.3
Reinforcement Bars, Epoxy Coated			Pound	20,900



AT UPSTREAM END

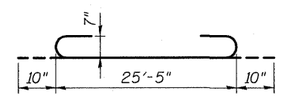


AT STAGE CONSTRUCTION JOINT

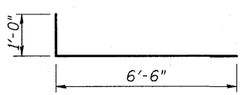


AT DOWNSTREAM END

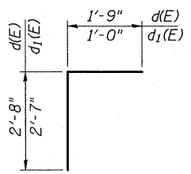
HEADWALL DETAILS



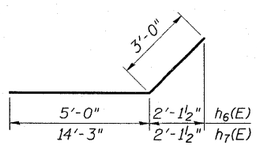
BAR d(E)



BAR d_2(E)



BARS d(E) & d_1(E)



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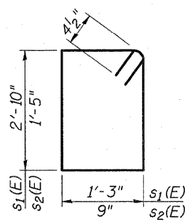
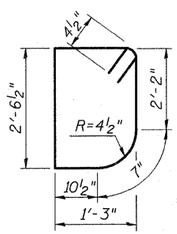
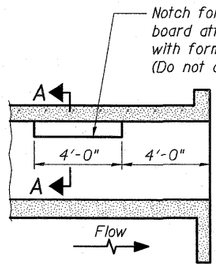


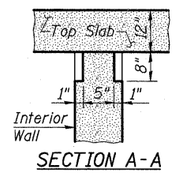
BARS s_1(E) & s_2(E)



BAR s(E)



LONGITUDINAL SECTION



SECTION A-A

PHOEBE NESTING SITE DETAILS

(Downstream End Only)

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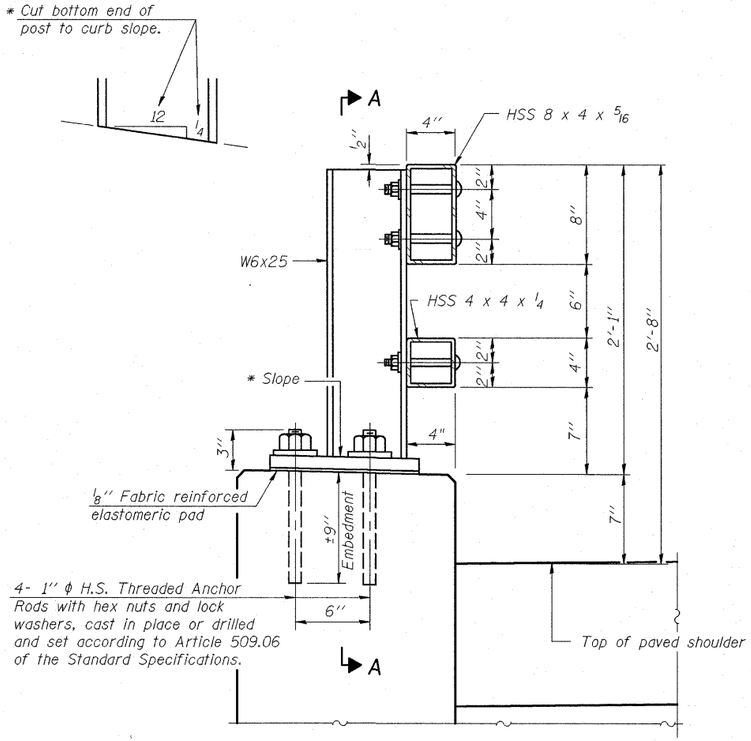
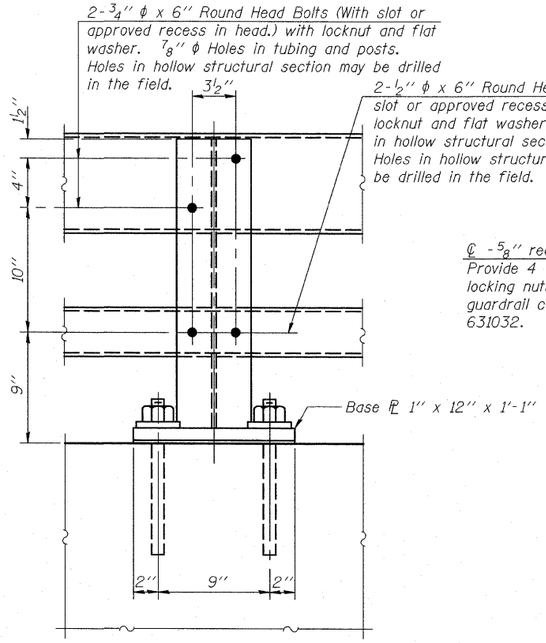
		CHECKED - MJW 09/10	REVISED -		
	PLOT SCALE = 0:1 ':' / IN.	DRAWN - DWH 06/10	REVISED -		SHEET NO. 4 OF 7 SHEETS
	PLOT DATE = 12/27/2010 10:27:19 AM	CHECKED - MTD 12/10	REVISED -		

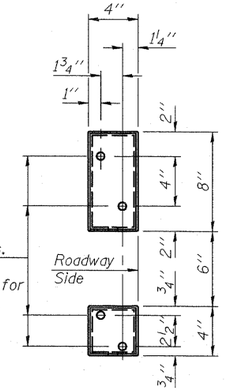
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	33
		CONTRACT NO. 98854		
		ILLINOIS FED. AID PROJECT AID		



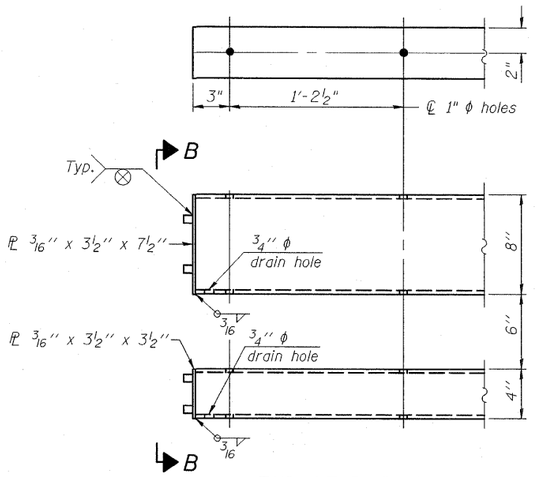
SECTION AT RAIL POST



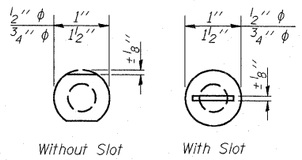
SECTION A-B



VIEW B-B



END OF RAIL DETAILS



VIEW C-C

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.

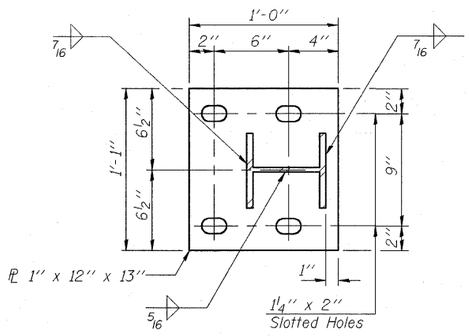
Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

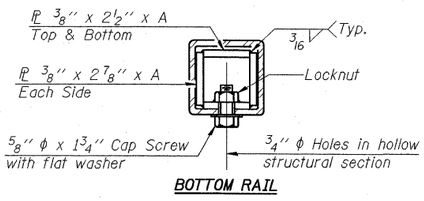
SPLICE DIMENSIONS

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"	—

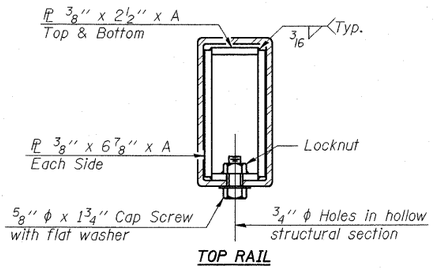
T = Total movement at expansion joint as shown on the design plans.



BASE PLATE DETAIL

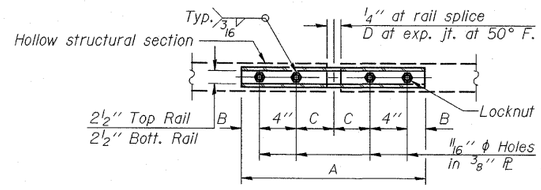


BOTTOM RAIL

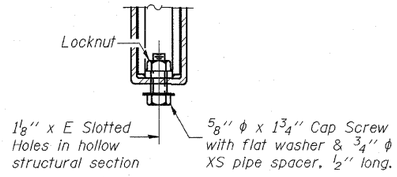


TOP RAIL

SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE PL TYPICAL



RAIL SPLICE CONNECTION AT EXPANSION JT.

(6'-3" Maximum Post Spacing)

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	53

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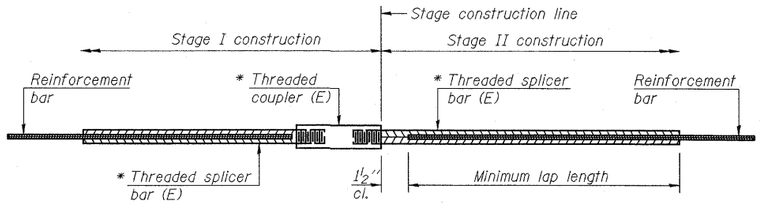
	PLOT SCALE = 01 '' / IN.	DRAWN - DWH 06/10	REVISED -	
	PLOT DATE = 12/27/2010 10:27:31 AM	CHECKED - MTD 12/10	REVISED -	

STEEL RAILING, TYPE 2399
STRUCTURE NO. 076-2006
SHEET NO. 5 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	34
		CONTRACT NO. 98854		
		ILLINOIS FED. AID PROJECT AID		



STANDARD BAR SPLICER ASSEMBLY

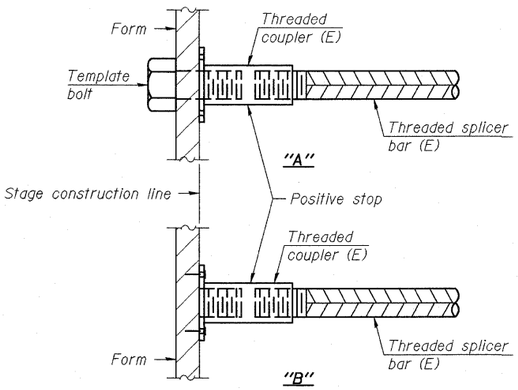
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

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

Threaded splicer bar length = min. lap length + 1½" + thread length

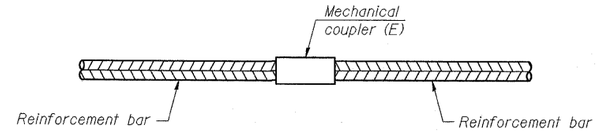
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Bottom slab, T & B	#5	54	3
Top slab, bottom	#6	34	3
Top slab, top	#4	27	3
Walls	#5	24	4



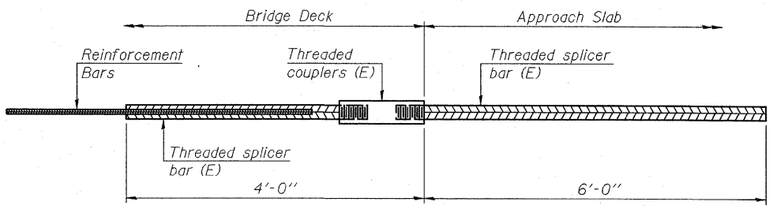
INSTALLATION AND SETTING METHODS

"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.



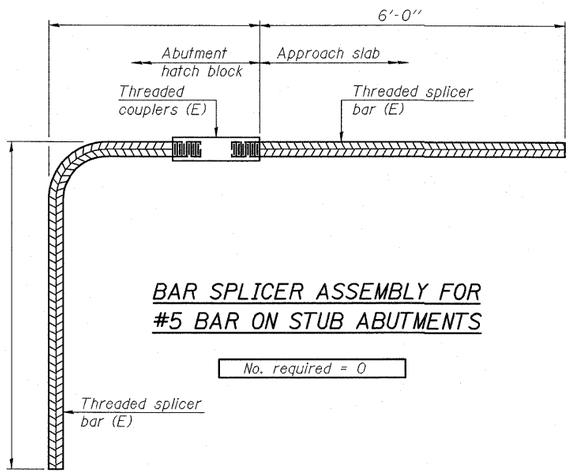
STANDARD MECHANICAL SPLICER

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 special provision for Mechanical Splicers.

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

BSD-1

7-1-10

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	PLOT DATE = 12/27/2010 10:27:45 AM	CHECKED - MTD 12/10	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	35
		CONTRACT NO. 98854		
	ILLINOIS FED. AID PROJECT AID			

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation Boring Log
Sheet 1 of 1

ILL Over Stream
Route: ILL 34 Structure Number: 076-2001 Date: 09/10/2003
Section 3B Bored By: Bryan Keller
County: Pope Location: 2.1 MI S. Saline Co. Checked By: Rob Graeff

Boring No 1-S
Station 704+01
Offset 11' RT CL
Ground Surface 419.9 Ft

Surf Wat Elev: 410.9
Ground Water Elevation when Drilling 407.9
At Completion
At: Hrs:

DEPTH	BLOW	Qu tsf	W%	DEPTH	BLOW	Qu tsf	W%
Bituminous Pavement				Cored from 25.0 ft to 30.0 ft			
418.4				Hard dry, grey, Limestone with			
	1			Clay Shale Seams and Layers			
Soft to medium, very moist, brown,	1	0.5B	19	88% Recovery			
Clay Loam A-6	2			0% RQD			
415.4							
Soft, very moist, brown, Silty 5.0	WH			389.9			30.0
Clay Loam A-6 with some Gravel	1	0.4B	18	Cored from 30.0 ft to 35.0 ft			
	1			Hard, dry, grey, Clay Shale			
				100% Recovery			
	WH			45% RQD			
	WH	0.4B	21				
	WH						
410.4							
Medium, moist, brown, Sandy 10.0	2			384.9			35.0
Gravel	10		13	Cored from 35.0 ft to 40.0 ft			
38% Sand; 9% Silt	10			Hard, dry, grey, Clay Shale			
5% Clay; 48% Gravel				100% Recovery			
407.9				33% RQD			
Very dense, wet, brown to grey,	1						
Sandy Gravel	23						
	63						
405.4							
Hard, dry, grey, Clay Shale 404.9	15.0	100/6"		379.9			40.0
Cored from 15.0 ft to 20.0 ft				Bottom of hole = 40.0 ft.			
Hard, dry, grey, Sandstone with							
Clay Shale Seams and layers				Free water observed at 12.0 ft.			
50% Recovery							
0% RQD				Elevation referenced to crown			
				of finished roadway at CL of			
				Structure; Elevation = 420.0 ft.			
399.9	20.0			To convert "N" values to "N60"			45.0
Cored from 20.0 ft to 25.0 ft.				values multiply by 1.25.			
Hard, dry, grey Limestone with							
Clay Shale seams							
47% Recovery							
43% RQD							
394.9	25.0						50.0

N-Std Pentr 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

Bridge Foundation Boring Log
Sheet 1 of 1

ILL Over Stream
Route: ILL 34 Structure Number: 076-2001 Date: 09/11/2003
Section 3B Bored By: Bryan Keller
County: Pope Location: 2.1 MI S. Saline Co. Checked By: Rob Graeff

Boring No 2-S
Station 704+80
Offset 11' LT CL
Ground Surface 419.7 Ft

Surf Wat Elev: 410.9
Ground Water Elevation when Drilling 410.2
At Completion
At: Hrs:

DEPTH	BLOW	Qu tsf	W%	DEPTH	BLOW	Qu tsf	W%
Bituminous Pavement							
418.2							
	1			392.2			
Soft, very moist, brown, Silty	1	0.3B	19	Cored from 27.5 ft to 32.0 ft.			
Clay Loam A-6	1			Hard, dry, grey, Clay Shale			
				97% Recovery			
5.0	WH			87% RQD			
	WH	0.4B	25				30.0
	1						
	WH			387.2			
	WH	0.4B	19	Bottom of hole = 32.5 ft.			
	WH						
				Free water observed at 9.5 ft.			
410.2							
Medium, wet, brown, Sandy 10.0	1			Elevation referenced to Crown			35.0
Gravel	6		15	of finished roadway at CL of			
37% Sand; 13% Silt	5			Structure; Elev = 420.0 ft			
8% Clay; 42% Gravel							
407.7				To convert "N" valuesto "N60"			
Hard, dry, brown, Sandstone 407.2	100/1"			values multiply by 1.25.			
Cored from 12.5 ft to 17.5 ft							
Hard, dry, brown to grey,							
Sandstone with Clay Shale							
Seams							
100% Recovery 15.0							40.0
45% RQD							
402.2							
Cored from 17.5 ft to 22.5 ft							
Hard, dry, grey, Sandstone							
100% Recovery							
27% RQD							
20.0							45.0
397.2							
Cored from 22.5 ft to 27.5 ft							
Hard dry, grey, Limestone with							
Clay Shale seams and layers							
97% Recovery							
71% RQD 25.0							50.0

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

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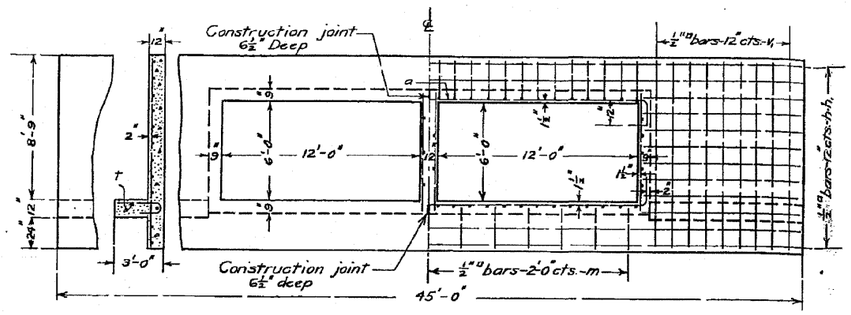
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	36
		CONTRACT NO. 98854		
	ILLINOIS FED. AID PROJECT AID			

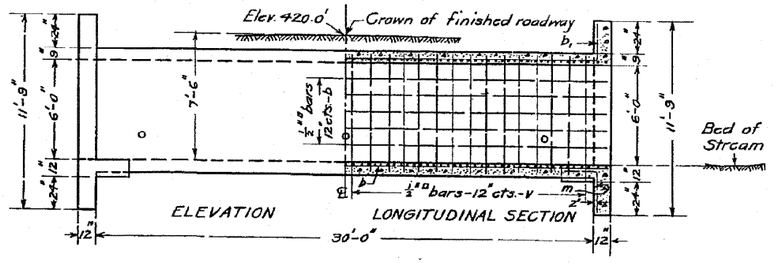
B.M. See Road Plans.
No Existing Structure

BOND ISSUE ROUTE NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
34	POPE HARDIN	3B 3B	58	50

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



END ELEVATION
SHOWING OUTLINES SHOWING REINFORCEMENT

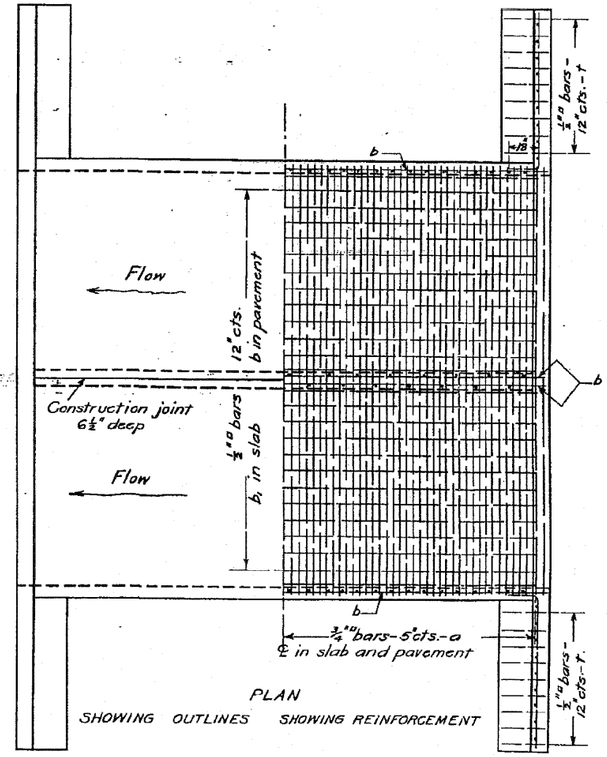


Note:-
Use "m" bars in downstream headwall only.
V and b bars in center wall are staggered. Distance center to center of bars 24" on each side.

BILL OF MATERIAL

Bars	No.	Size	Length
V	90	½"ø	7'-0"
V,	36	½"ø	11'-6"
h	16	½"ø	23'-6"
h,	32	½"ø	11'-6"
a	154	¾"ø	28'-0"
b	82	½"ø	17'-0"
b,	52	½"ø	18'-0"
t	36	½"ø	3'-6"
m	13	½"ø	4'-9"
Steel - Lbs.			11,910
Concrete - Cu. Yds.			91.9

Class A concrete to be used throughout.
Proportions 1:2½:4.



STANDARD	COMPUTED -	B. A. Mackenzie
	CHECKED	R.E. Erickson
	DRAWN -	B.A.M.
	CHECKED -	R.E.E.
SPECIAL	ASSEMBLED -	
	CHECKED -	

EXAMINED June 27 1972
BRIDGE ENGINEER
PASSED H. E. Dunnam
ENGINEER OF DESIGN
APPROVED Clifford Older
CHIEF HIGHWAY ENGINEER

STA. 704+40
STATE BOND ISSUE ROUTE 34
SECTION 3b POPE CO.

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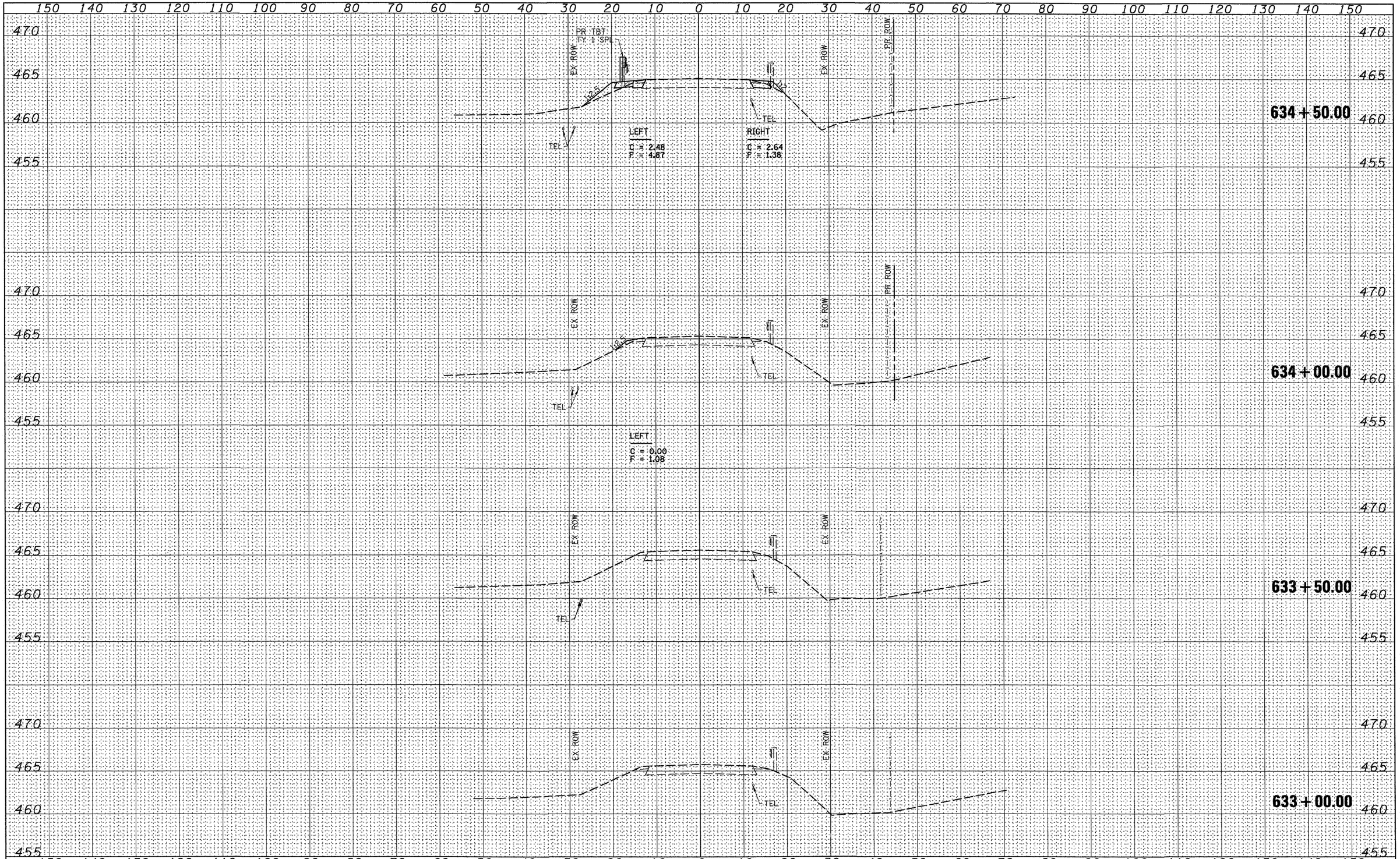
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS – FOR INFORMATION ONLY
STRUCTURE NO. 076-2001
SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	37
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT AID		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 34 CROSS SECTIONS
STRUCTURE NO. 076-2007

SCALE: AS SHOWN | SHEET NO. 1 OF 13 SHEETS | STA. 633+00.00 TO STA. 634+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	38
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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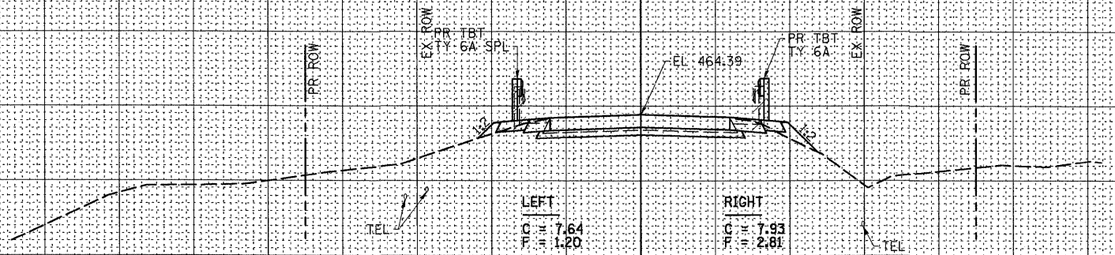
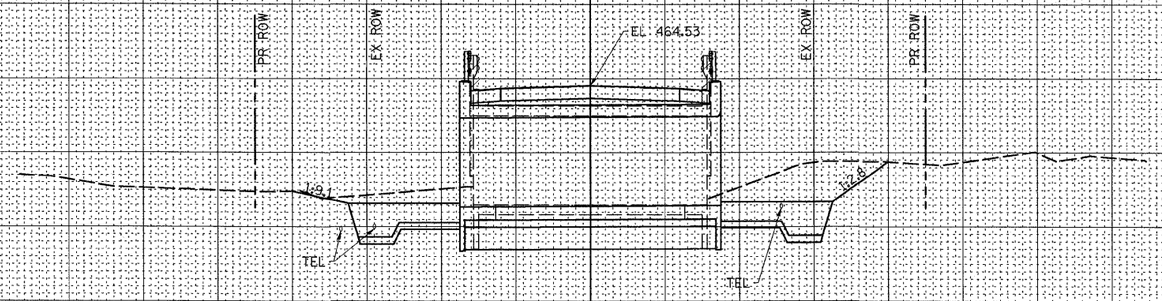
470 465 460 455

635 + 89.50



635 + 63.50



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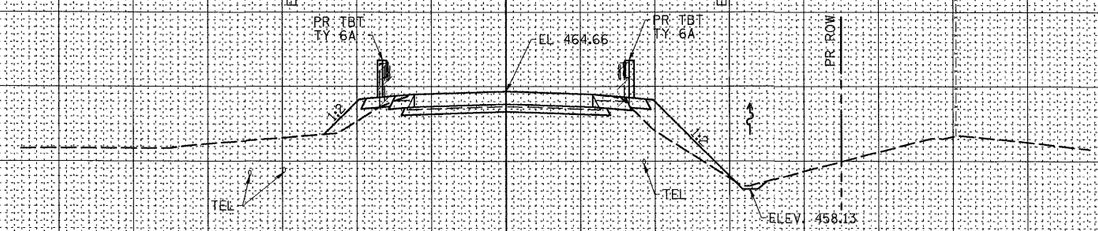

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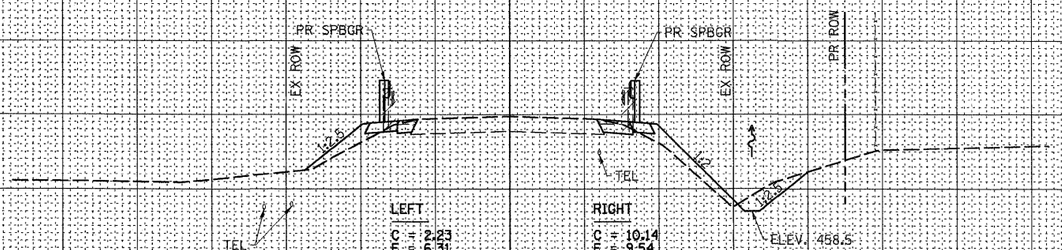

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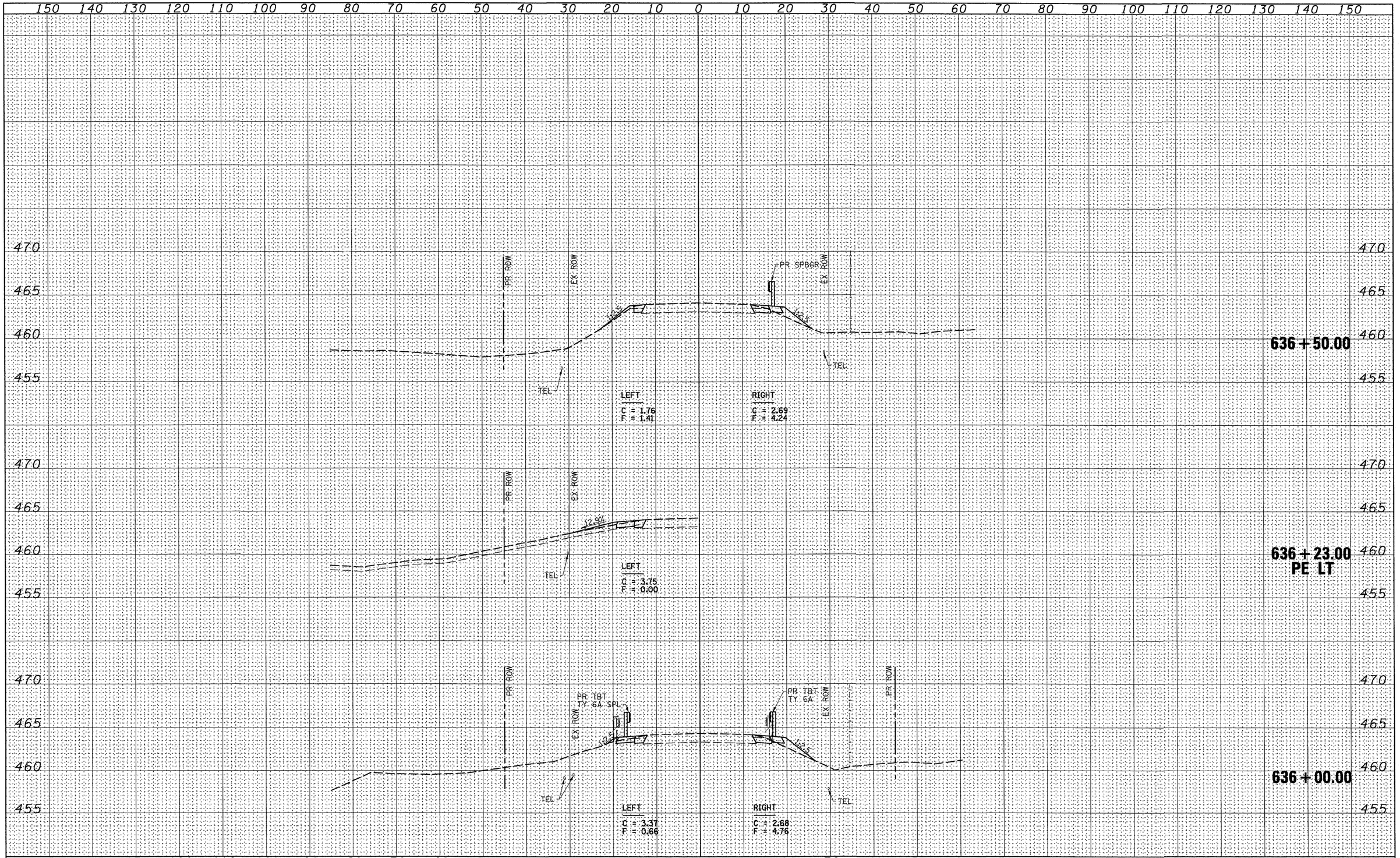
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 34 CROSS SECTIONS
STRUCTURE NO. 076-2007

SCALE: AS SHOWN | SHEET NO. 2 OF 13 SHEETS | STA. 635+00.00 TO STA. 635+89.50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	39
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 34 CROSS SECTIONS
STRUCTURE NO. 076-2007

SCALE: AS SHOWN | SHEET NO. 3 OF 13 SHEETS | STA. 636+00.00 TO STA. 636+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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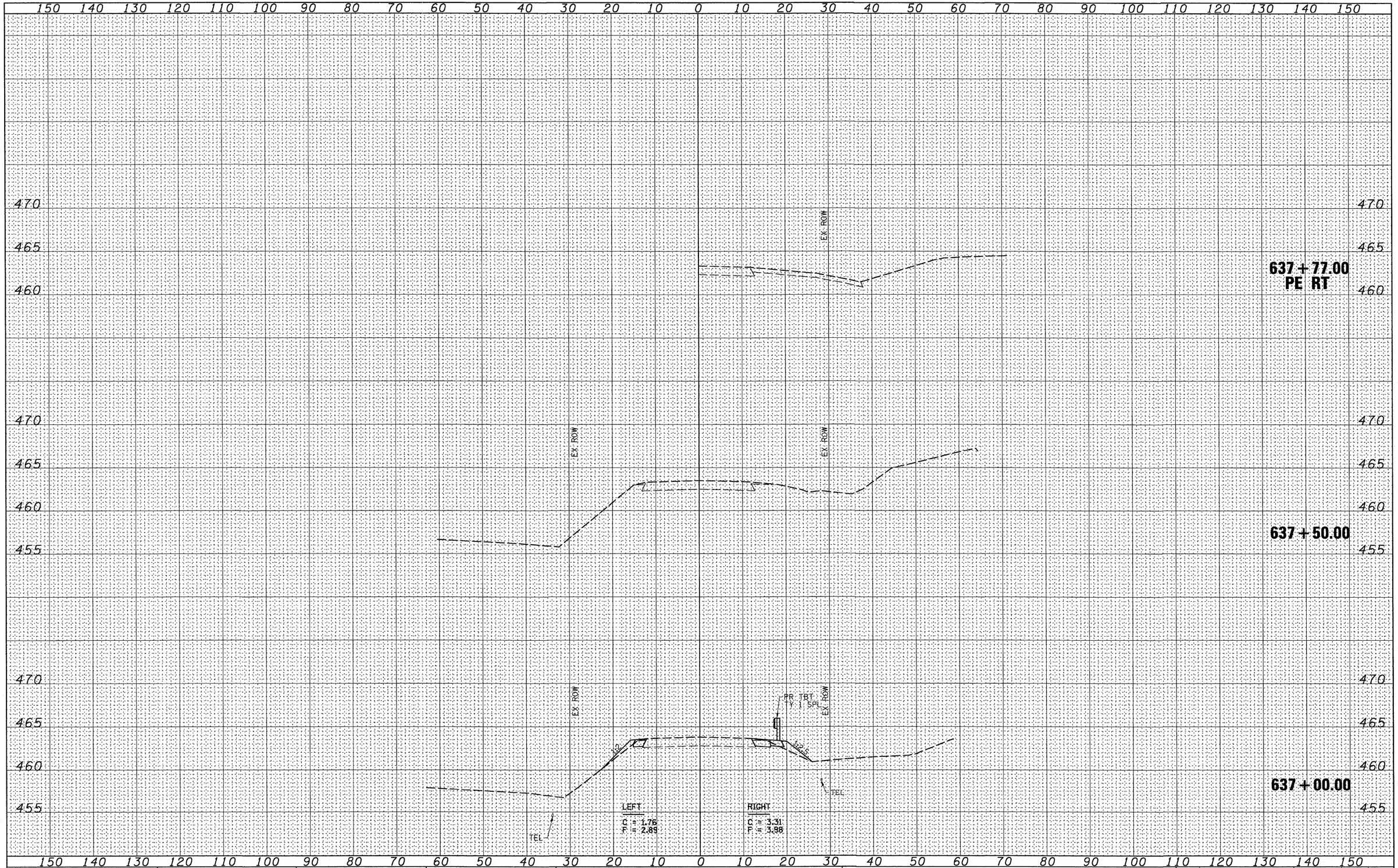
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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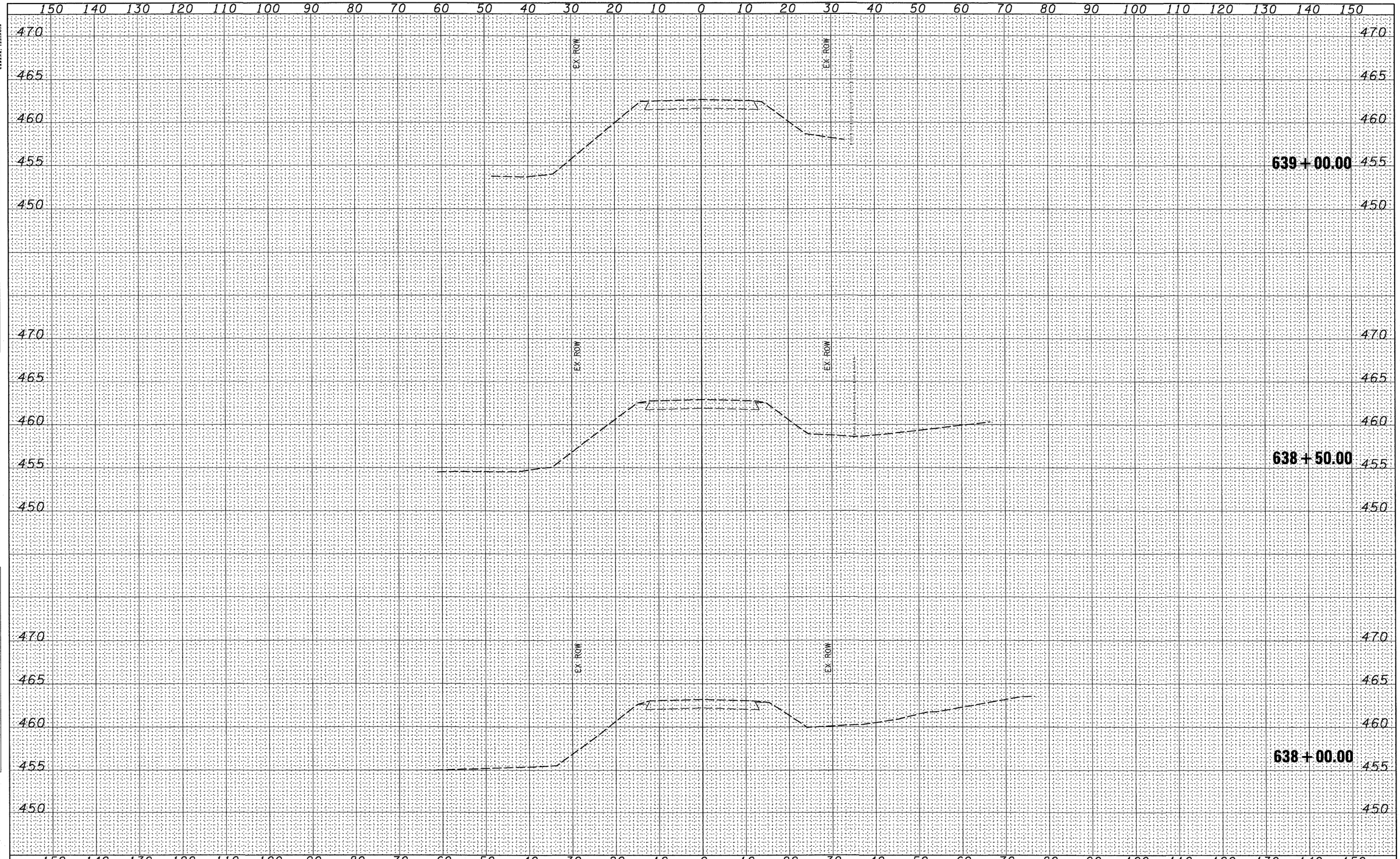
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 34 CROSS SECTIONS
STRUCTURE NO. 076-2007

SCALE: AS SHOWN | SHEET NO. 4 OF 13 SHEETS | STA. 637+00.00 TO STA. 637+77.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	41
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FILE NAME = D998854-sht-xssht5l.dgn	USER NAME = HAS	DESIGNED - MTD	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**IL RTE 34 CROSS SECTIONS STRUCTURE NO. 076-2007**
		DRAWN - JPC/HAS	REVISED -		
	PLOT SCALE = 10.0000 ' / IN.	CHECKED - RDP	REVISED -		
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	PLOT DATE = 12/27/2010 10:30:41 AM	DATE - 12/10	REVISED -		SCALE: AS SHOWN | SHEET NO. 5 OF 13 SHEETS | STA. 638+00.00 TO STA. 639+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-2	POPE	50	42
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	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

EX. ROW

EX. ROW

EX. ROW

EX. ROW

430
425
420

699 + 58.00
PE LT

699 + 00.00

698 + 80.00
PE LT

FILE NAME = D998854-sht-xssht01.dgn	USER NAME = HAS	DESIGNED - MTD	REVISED -
		DRAWN - JPC/HAS	REVISED -
	PLOT SCALE = 10.0000 ' / IN.	CHECKED - RDP	REVISED -
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	PLOT DATE = 12/27/2010 10:32:51 AM	DATE - 12/10	REVISED -

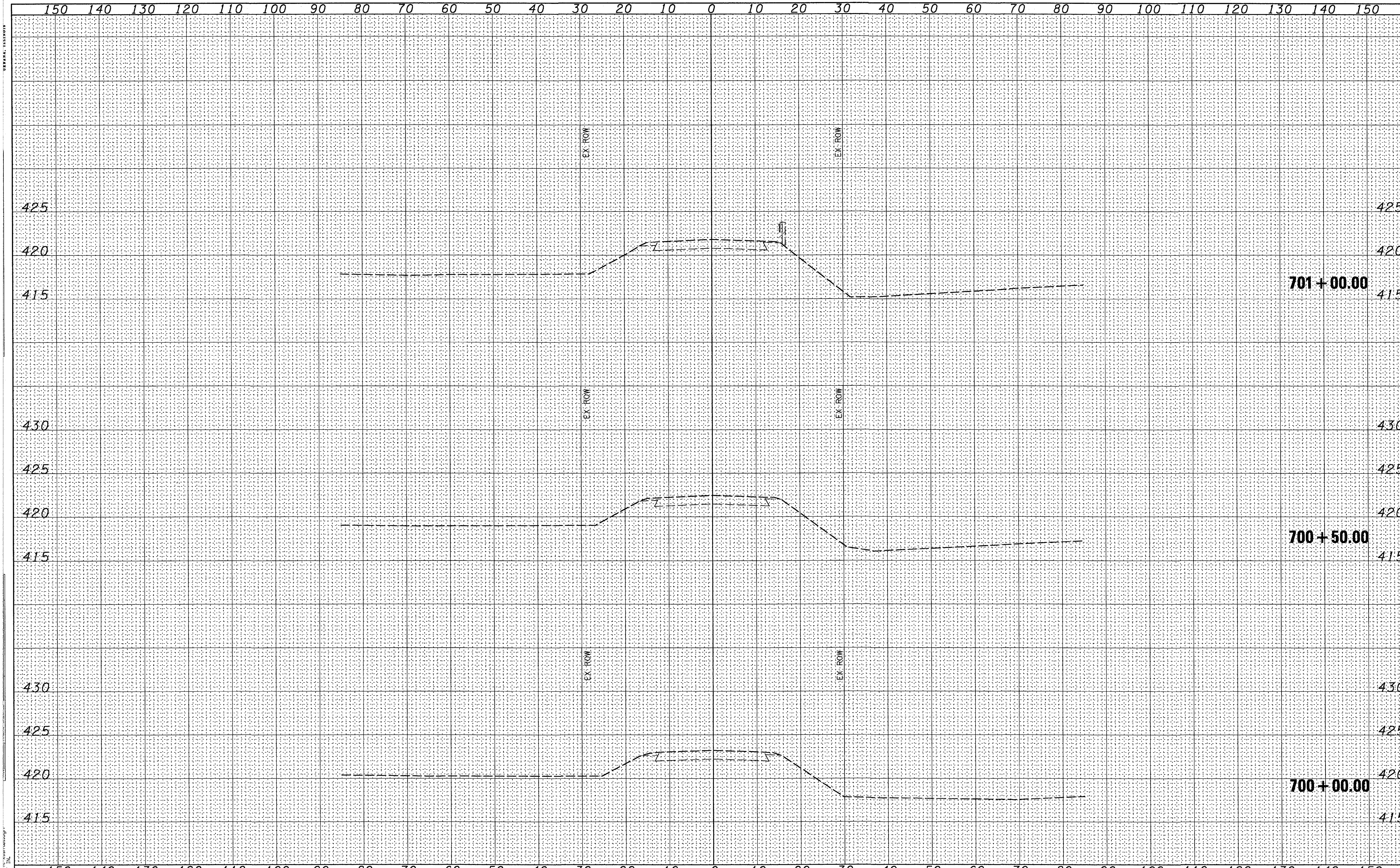
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 34 CROSS SECTIONS
STRUCTURE NO. 076-2006

SCALE: AS SHOWN | SHEET NO. 6 OF 13 SHEETS | STA. 698+80.00 TO STA. 699+58.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	43
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCALE = 10.0000 ' / IN.



FILE NAME = D998854-sht-xssht01.dgn	USER NAME = HAS	DESIGNED - MTD	REVISED -
		DRAWN - JPC/HAS	REVISED -
	PLOT SCALE = 10.0000 ' / IN.	CHECKED - RDP	REVISED -
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	PLOT DATE = 12/27/2010 10:33:02 AM	DATE - 12/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

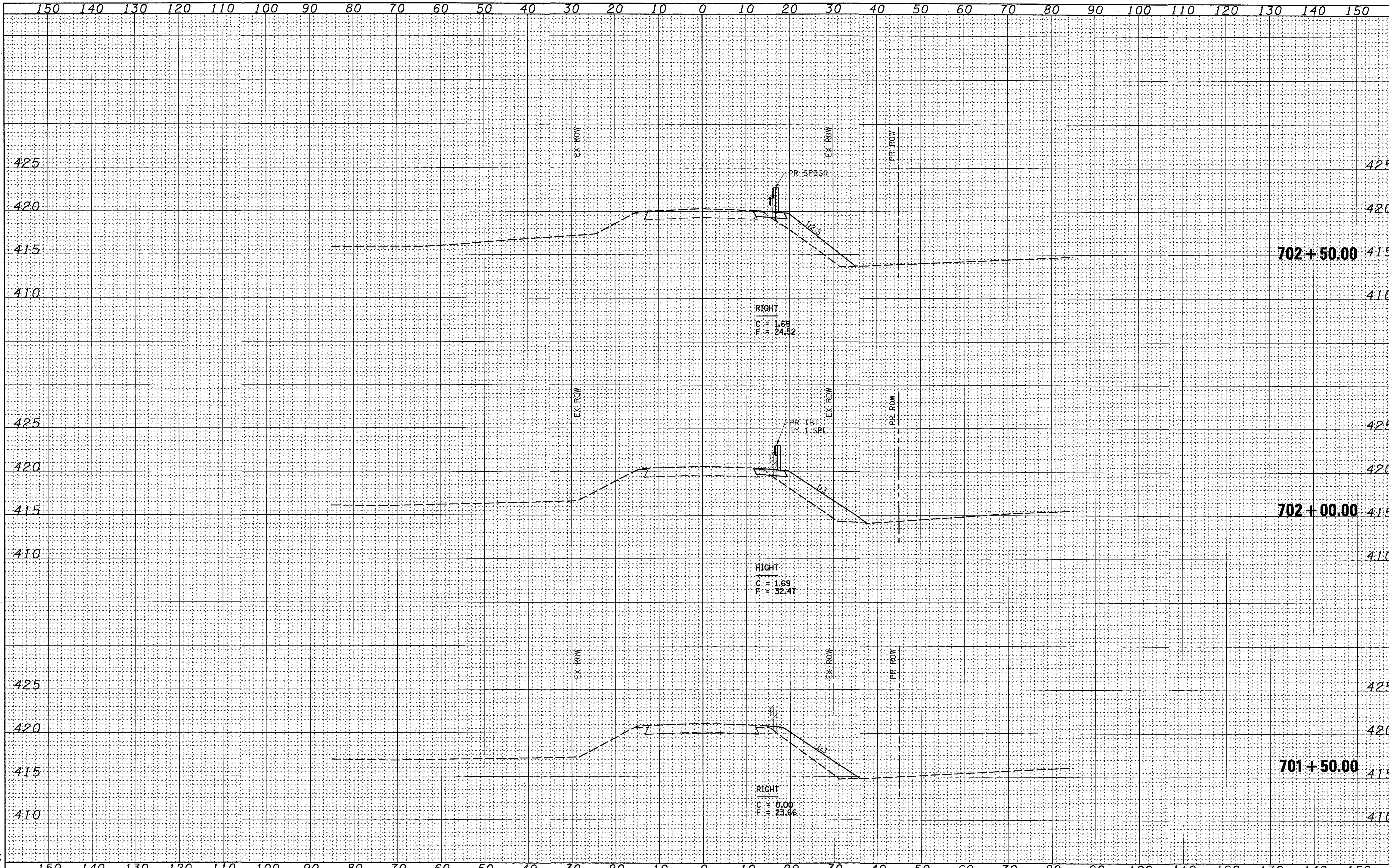
IL RTE 34 CROSS SECTIONS
STRUCTURE NO. 076-2006

SCALE: AS SHOWN | SHEET NO. 7 OF 13 SHEETS | STA. 700+00.00 TO STA. 701+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	44

CONTRACT NO. 98854

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



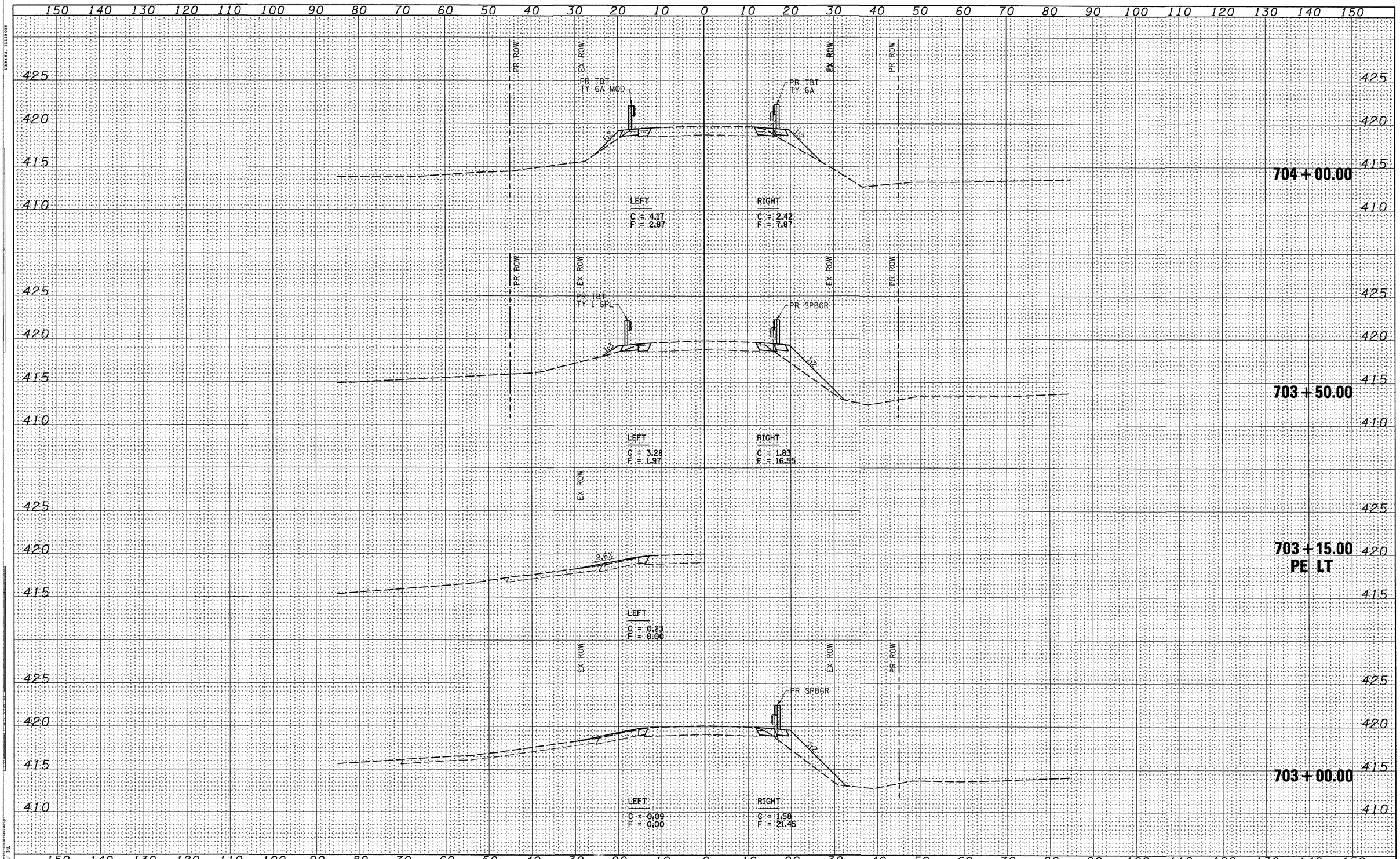
FILE NAME = D998854-sht-xssht01.dgn	USER NAME = HAS	DESIGNED - MTD	REVISED -
		DRAWN - JPC/HAS	REVISED -
	PLOT SCALE = 10.0000 ' / IN.	CHECKED - RDP	REVISED -
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	PLOT DATE = 12/27/2010 10:33:14 AM	DATE - 12/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 34 CROSS SECTIONS
STRUCTURE NO. 076-2006

SCALE: AS SHOWN | SHEET NO. 8 OF 13 SHEETS | STA. 701+50.00 TO STA. 702+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	45
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FILE NAME = D998854-sht-xssht01.dgn	USER NAME = HAS	DESIGNED - MTD	REVISED -
		DRAWN - JPC/HAS	REVISED -
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	PLOT SCALE = 10.0000 ' / IN.	CHECKED - RDP	REVISED -
	PLOT DATE = 12/27/2010 11:19:02 AM	DATE - 12/10	REVISED -

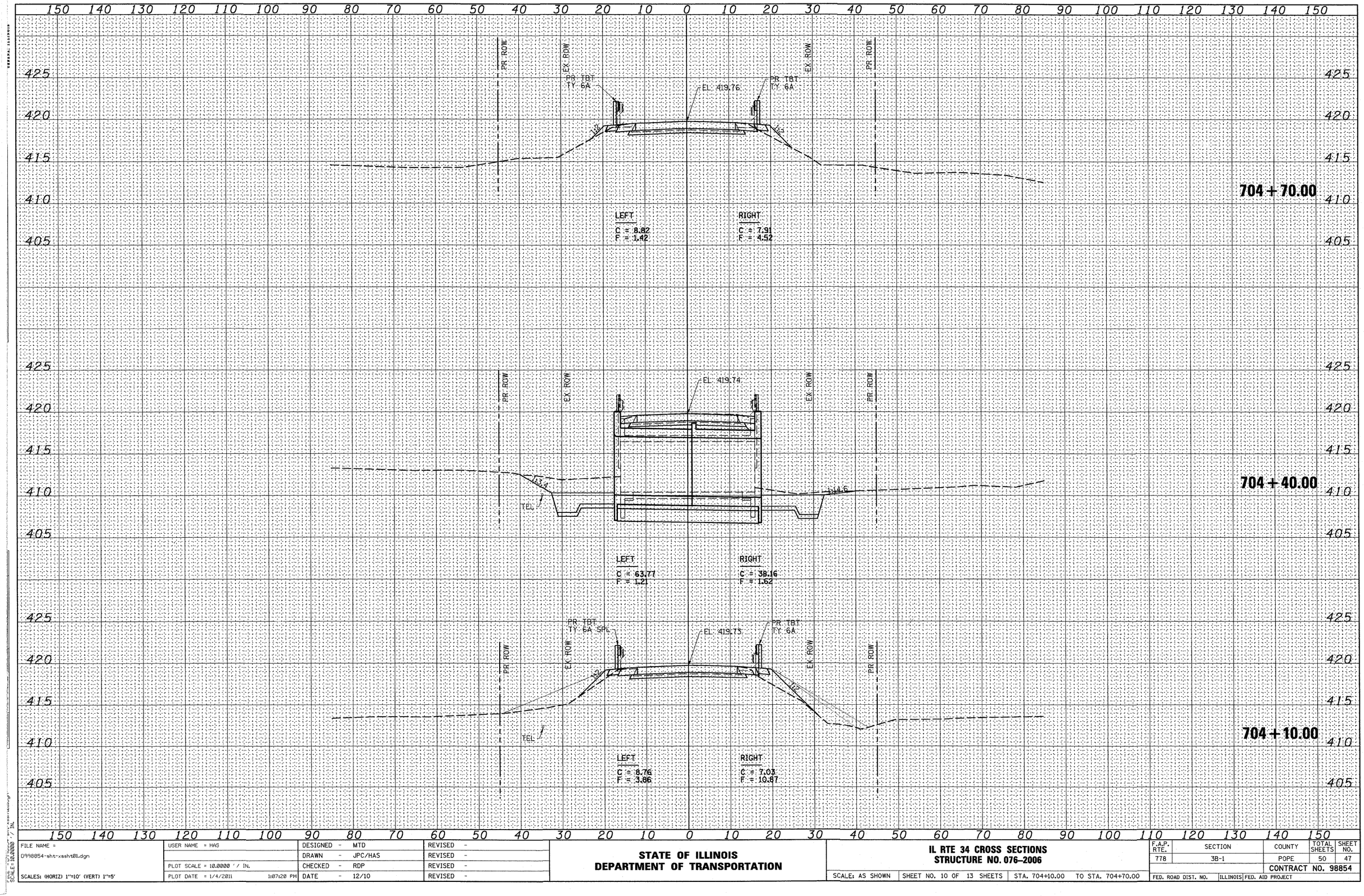
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 34 CROSS SECTIONS
STRUCTURE NO. 076-2006

SCALE: AS SHOWN | SHEET NO. 9 OF 13 SHEETS | STA. 703+00.00 TO STA. 704+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	46
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCALE = 10.0000 / IN.



FILE NAME = D998054-sht-xssht01.dgn	USER NAME = HAS	DESIGNED - MTD	REVISED -
		DRAWN - JPC/HAS	REVISED -
	PLOT SCALE = 10.0000 ' / IN.	CHECKED - RDP	REVISED -
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	PLOT DATE = 1/4/2011 1:07:20 PM	DATE - 12/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 34 CROSS SECTIONS
STRUCTURE NO. 076-2006

SCALE: AS SHOWN | SHEET NO. 10 OF 13 SHEETS | STA. 704+10.00 TO STA. 704+70.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	47
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FILE = D0998054-sht-xssht01.dgn
SCALE = 10.0000 ' / IN.

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

425 420 415 410

PR. ROW
EX. ROW
PR. SPBGR
1:3
LEFT
C = 2.60
F = 3.00

706 + 00.00

425 420 415 410

PR. ROW
EX. ROW
1:4.6
RIGHT
C = 2.93
F = 5.09

705 + 70.00
FE RT

425 420 415 410

PR. ROW
EX. ROW
PR. SPBGR
1:3
LEFT
C = 2.70
F = 1.74
1:3
RIGHT
C = 2.96
F = 23.64

705 + 50.00

425 420 415 410

PR. ROW
EX. ROW
PR. SPBGR
PR. TBT
TY. 1 SPL
1:2.5
LEFT
C = 3.71
F = 1.58
1:2.5
RIGHT
C = 3.90
F = 11.51

705 + 00.00

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

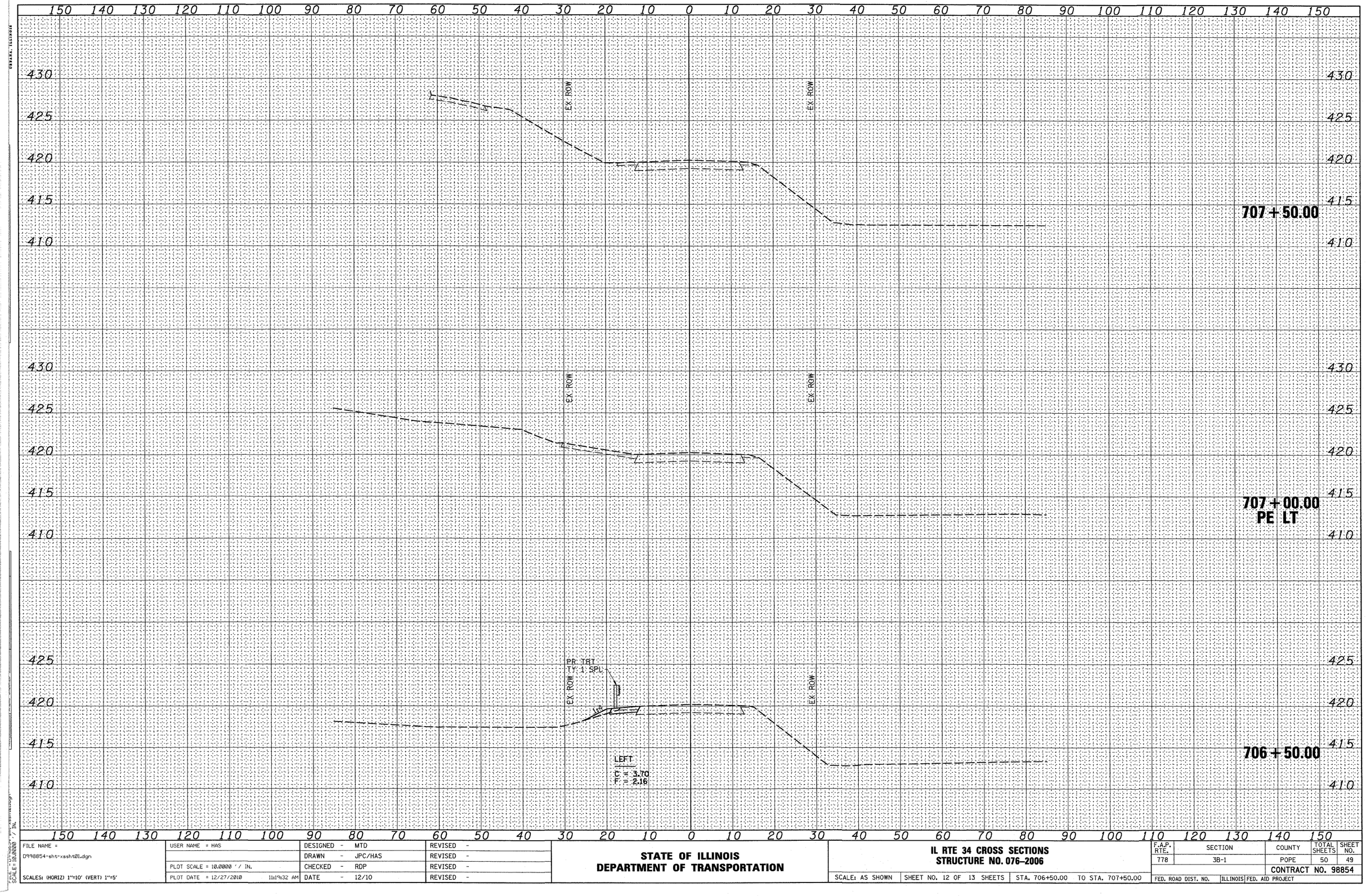
FILE NAME = D998854-sht-xssht01.dgn	USER NAME = HAS	DESIGNED - MTD	REVISED -
		DRAWN - JPC/HAS	REVISED -
	PLOT SCALE = 10.0000 ' / IN.	CHECKED - RDP	REVISED -
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	PLOT DATE = 12/27/2010 11:19:22 AM	DATE - 12/10	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 34 CROSS SECTIONS
STRUCTURE NO. 076-2006

SCALE: AS SHOWN | SHEET NO. 11 OF 13 SHEETS | STA. 705+00.00 TO STA. 706+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	48
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FILE NAME = D998854-sht-xssht01.dgn	USER NAME = HAS	DESIGNED - MTD	REVISED -
		DRAWN - JPC/HAS	REVISED -
	PLOT SCALE = 10.0000 ' / IN.	CHECKED - RDP	REVISED -
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	PLOT DATE = 12/27/2010 11:19:32 AM	DATE - 12/10	REVISED -

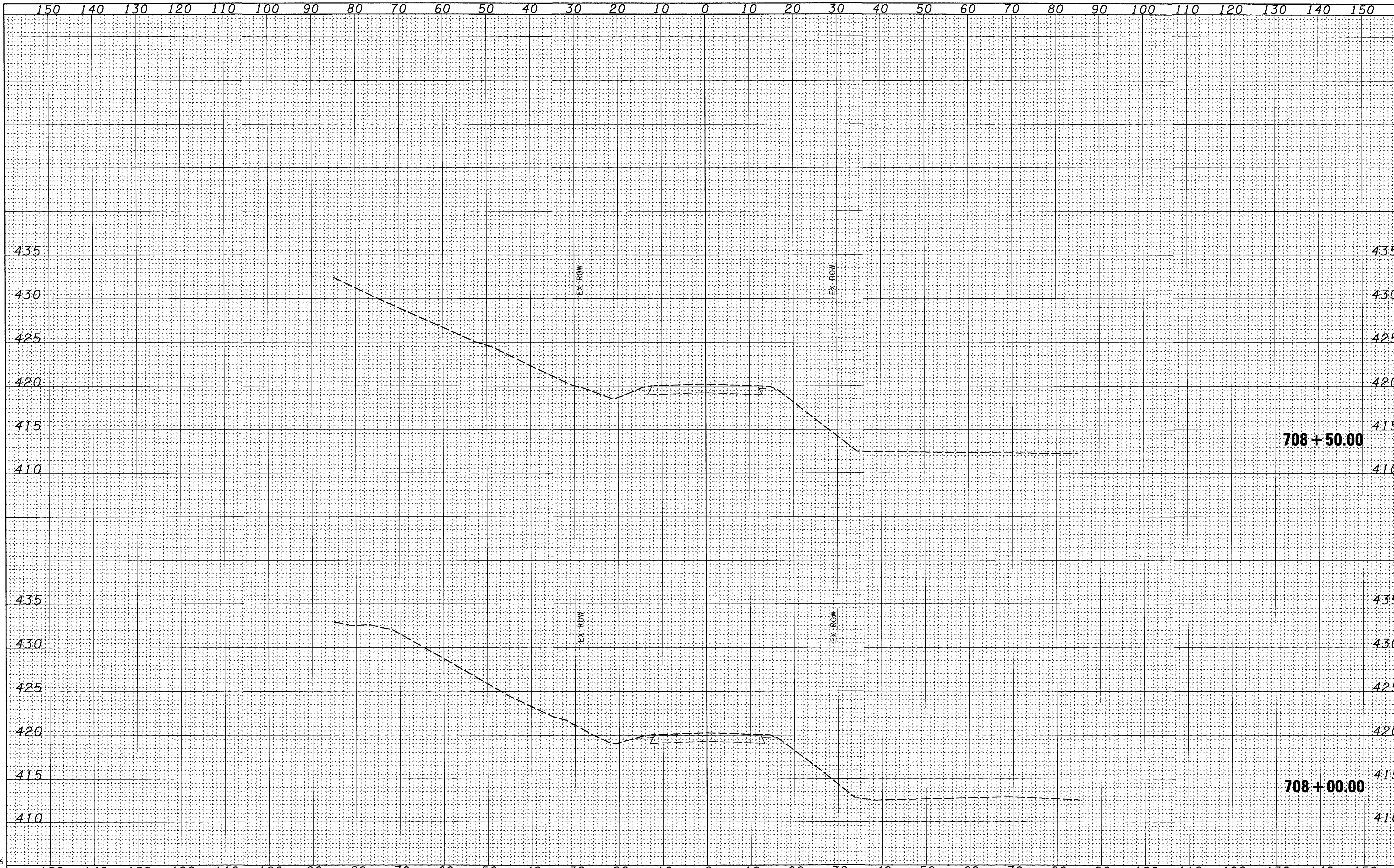
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE 34 CROSS SECTIONS
STRUCTURE NO. 076-2006

SCALE: AS SHOWN | SHEET NO. 12 OF 13 SHEETS | STA. 706+50.00 TO STA. 707+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	49
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FILE = D998854-sht-xssht01.dgn
SCALE = 10.0000 / IN.



FILE NAME = D998854-sht-xssht01.dgn	USER NAME = HAS	DESIGNED - MTD	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**IL RTE 34 CROSS SECTIONS** **STRUCTURE NO. 076-2006**
		DRAWN - JPC/HAS	REVISED -		
	PLOT SCALE = 10.0000 ' / IN.	CHECKED - RDP	REVISED -		
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	PLOT DATE = 12/27/2010 11:19:40 AM	DATE - 12/10	REVISED -		SCALE: AS SHOWN · SHEET NO. 13 OF 13 SHEETS · STA. 708+00.00 TO STA. 708+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
778	3B-1	POPE	50	50
		CONTRACT NO. 98854		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		