

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 840 (US 45 / 52)
SECTION 138 BR-3
PROJECT: ACF-0840(065)
STRUCTURE REPLACEMENT
IROQUOIS COUNTY

C-93-124-09

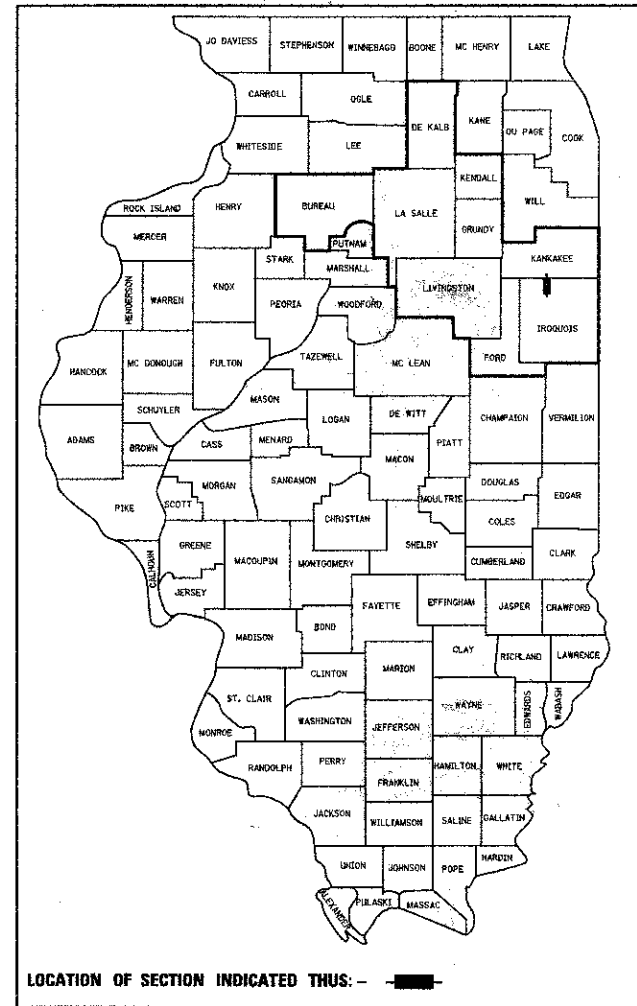
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	138 BR-3	IROQUOIS	28	1

* 28 + 1 = 29

INDEX OF SHEETS

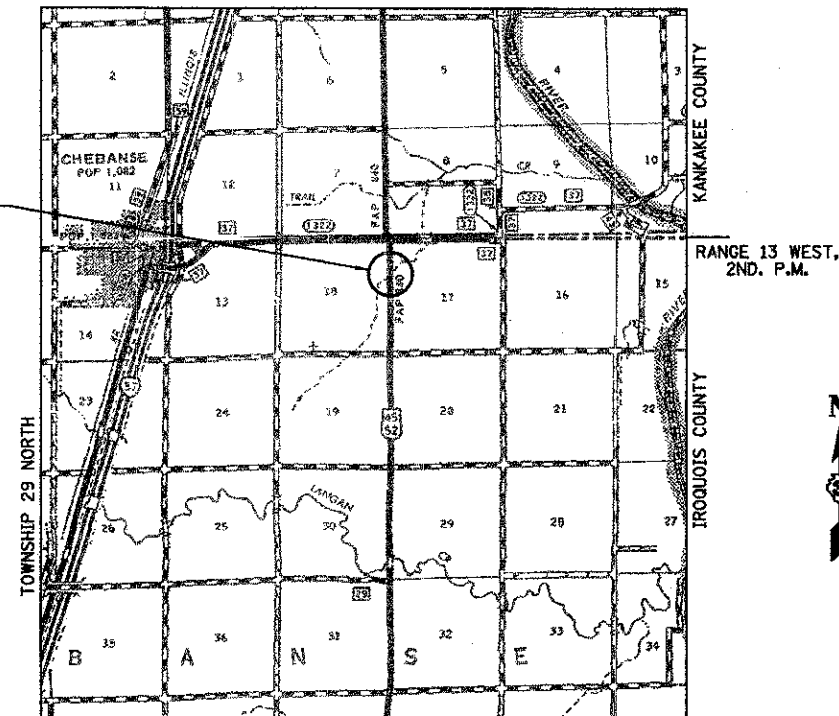
- 1 COVER SHEET
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D-93-056-09

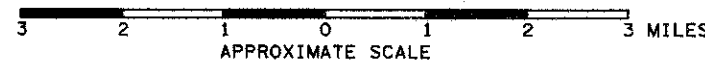


LOCATION OF SECTION INDICATED THUS: —■—

S.N. 038-2024 (PR.)/038-0169 (EX.)
STATION 412+24.00 STRUCTURE
REPLACEMENT OVER UNNAMED
DRAINAGE DITCH (IMPROVEMENT;
STA. 409+50.00 TO STA. 415+00.00)

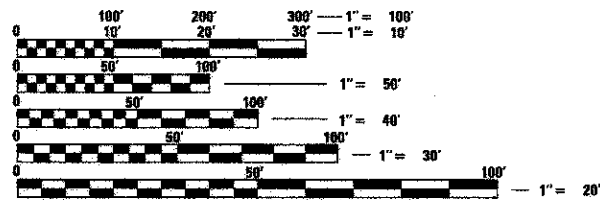


LOCATION MAP



GROSS LENGTH = 550 FT. = 0.104 MILE
NET LENGTH = 550 FT. = 0.104 MILE

FOR LIST OF STANDARDS, SEE SHEET NO. 2



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

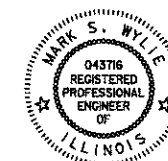
DISTRICT 3 NO. (815) 434-6131
PROJECT ENGINEER: JOE KANNEL, P.E.
UNIT CHIEF: MICHELE LINDEMANN, P.E.
CONTRACT NO. 66971

FUNCTIONAL CLASSIFICATION
RURAL MINOR ARTERIAL

2011 ADT = 4,200
P.V. = 83.8% S.U. = 6.5% M.U. = 9.7%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED August 17 20 12
Eric S. Theobaldson
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
October 5 20 12
John D. Baramy, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT
October 5 20 12
William R. Frazier
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER



Mark S. Wylie Date 7/29/11
MARK S. WYLIE
REGISTERED PROFESSIONAL ENGINEER
NO. 062-04376
EXPIRATION 11/30/11

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OF THE STATE OF ILLINOIS**

GENERAL NOTES

THE THICKNESS OF HMA 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 IS PLACED.

THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE HMA SURFACE.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

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.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF "FURNISHED EXCAVATION".

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

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.

ANY ITEMS ON TOP OF THE STRUCTURE TO BE REMOVED, I.E. PAVEMENT, BRIDGE RAIL, ETC. SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF REMOVAL OF EXISTING STRUCTURES.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
AGGREGATE (PRIME COAT)	0.002	TONS / SQ YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
AGGREGATE DITCH CHECKS	5	TONS AGGREGATE

BITUMINOUS MATERIALS (PRIME COAT) RATES		
SURFACE TYPE	ESTIMATED TRUCK APPLICATION RATE	RESIDUAL RATE
AGGREGATE BASES	0.375 GAL / SQ YD	N/A
MILLED HMA OR PCC PAVEMENT	0.08 GAL / SQ YD	0.04 GAL / SQ YD
EXISTING PAVEMENT	0.05 GAL / SQ YD	0.025 GAL / SQ YD
FOG COAT (BETWEEN ADDITIONAL HMA LIFTS)	0.05 GAL / SQ YD	0.025 GAL / SQ YD

ESTIMATED TRUCK APPLICATION RATE USED FOR CALCULATING PLAN QUANTITIES

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

COMMITMENTS

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-06	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
542401-01	METAL END SECTION FOR PIPE CULVERTS
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-09	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
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' (4.5m) AWAY
701006-03	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 2' (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 ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701901-02	TRAFFIC CONTROL DEVICES
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

REVIEWED BY: *Don Demml*
DISTRICT STUDIES & PLANS ENGINEER

DATE: August 17, 2012

EXAMINED BY: *Herbert J. King*
DISTRICT CONSTRUCTION ENGINEER

Wayne L. Phillips
DISTRICT MATERIALS ENGINEER

James A. Huschen
DISTRICT OPERATIONS ENGINEER

FILE NAME =	USER NAME = carportoraj	DESIGNED - JML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
ca:\pwork\pwork\carportoraj\dms3261\386972-snt-gannote.dgn	DRAWN - JJO/DJM	REVISIONS -	840			138 BR-3	IRROQUOIS	28	2
PLOT SCALE = 1/8" = 1'	CHECKED - MSW	REVISIONS -	CONTRACT NO. 66971						
PLOT DATE = 8/21/2012	DATE - 07-27-11	REVISIONS -	FED. ROAD DIS. NO. [ILLINOIS] FED. AID PROJECT						
				SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.		

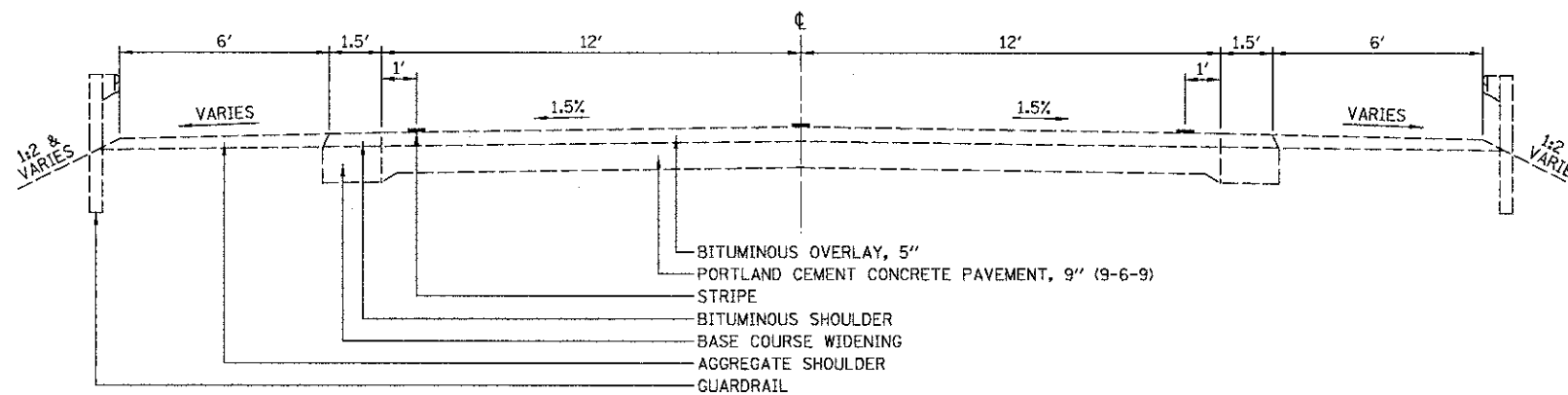
CODE NUMBER	ITEM	UNIT	TOTAL	ROADWAY 0004	STRUCTURE NO. 038-2024 (PR) 038-0169 (EX) 0040
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	30	30	
20200100	EARTH EXCAVATION	CU YD	395	395	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	61		61
20400800	FURNISHED EXCAVATION	CU YD	730	730	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	408	408	
25000300	SEEDING, CLASS 3	ACRE	0.8	0.8	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	72	72	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	72	72	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	72	72	
25100630	EROSION CONTROL BLANKET	SQ YD	3,058	3,058	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	720	720	
28000305	TEMPORARY DITCH CHECKS	FOOT	94	94	
28000400	PERIMETER EROSION BARRIER	FOOT	156	156	
28000500	INLET AND PIPE PROTECTION	EACH	2	2	
28100107	STONE RIPRAP, CLASS A4	SQ YD	314		314
28200200	FILTER FABRIC	SQ YD	314		314
31100910	SUB-BASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	209	209	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	47	47	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	682	682	
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	119	119	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	360	360	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	287	287	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	138	138	
44000100	PAVEMENT REMOVAL	SQ YD	162	162	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	149	149	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	482	482	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1

* SPECIALTY ITEM

CODE NUMBER	ITEM	UNIT	TOTAL	ROADWAY 0004	STRUCTURE NO. 038-2024 (PR) 038-0169 (EX) 0040
50105220	PIPE CULVERT REMOVAL	FOOT	64	64	
50800105	REINFORCEMENT BARS	POUND	10,390		10,390
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	700		700
51500100	NAME PLATES	EACH	1		1
54003000	CONCRETE BOX CULVERTS	CU YD	81.2		81.2
54011208	PRECAST CONCRETE BOX CULVERTS 12' x 8'	FOOT	84		84
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	168	168	
54213450	END SECTIONS 15"	EACH	4	4	
63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	375	375	
63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	75	75	
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	559	559	
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	8	8	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2	
67100100	MOBILIZATION	L SUM	1	1	
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1	
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2,200	2,200	
78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	280	280	
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8	8	
78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8	
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	8	8	
20054400	ROCK FILL	CU YD	57		57
X0322936	REMOVE EXISTING FLARED END SECTION	EACH	4	4	
X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	150	150	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	

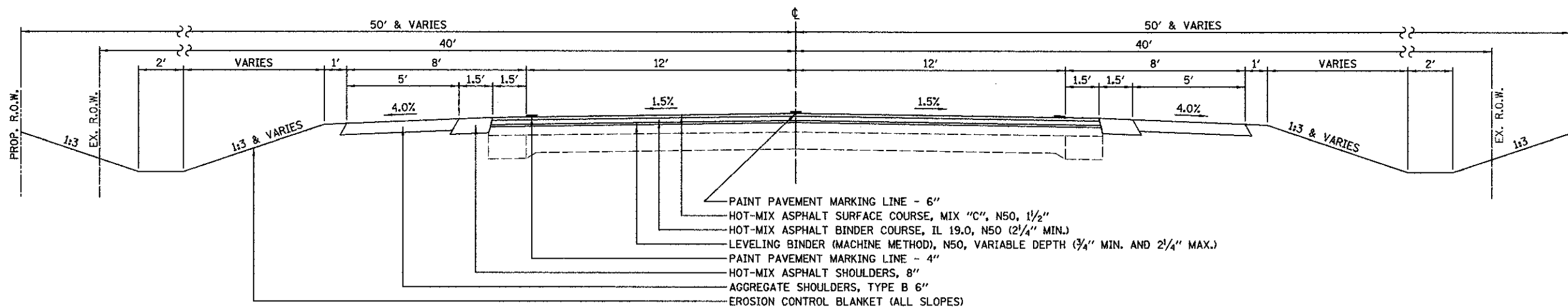
* SPECIALTY ITEM

FILE NAME =	USER NAME = #USER#	DESIGNED - JML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JJO/DJM	REVISED -		840	138 BR-3	IROQUOIS	28	3				
		CHECKED - MSW	REVISED -						CONTRACT NO. 66971				
		DATE - 07-27-11	REVISED -		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	



EXISTING TYPICAL CROSS SECTION

F.A.P. 840 (US 45/52)

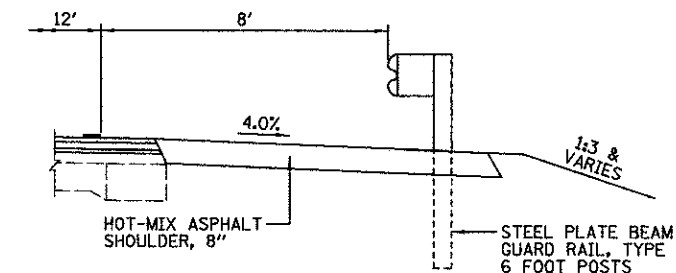


PROPOSED TYPICAL CROSS SECTION

F.A.P. 840 (US 45/52)

STA 409+50.00 TO STA 411+88.00
STA 412+60.00 TO STA 415+00.00

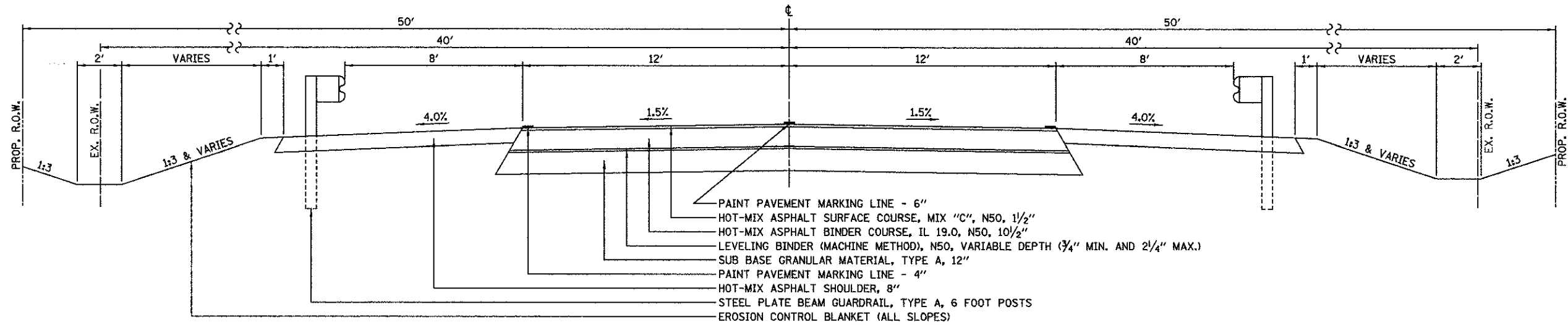
NOTE:
THE HOT-MIX ASPHALT BINDER COURSE, IL 19.0 SHALL BE USED AS LONG AS A MINIMUM OF 2 1/4" OF MATERIAL CAN BE PLACED. LEVELING BINDER SHOULD BE USED ONLY FOR A FINAL LIFT WHERE THERE IS A VARIABLE DEPTH AND THE LIFT IS PLACED LESS THAN 2 1/4".



DETAIL AT GUARDRAIL

STA 410+83.94 RT TO STA 412+08.94 RT
STA 411+39.44 LT TO STA 412+01.94 LT
STA 412+46.44 RT TO STA 413+08.94 RT
STA 412+39.44 LT TO STA 413+64.44 LT

FILE NAME *	USER NAME * #USER#	DESIGNED - JML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL#	PLOT SCALE = #SCALE#	DRAWN - JJO/DJM	REVISED -					840	138 BR-3	IROQUOIS	28	4
	PLOT DATE = #DATE#	CHECKED - MSW	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 66971		
		DATE - 07-27-11	REVISED -								ILLINOIS FED. AID PROJECT	



PROPOSED TYPICAL CROSS SECTION (2)

F.A.P. 840 (US 45/52)

STA 411+88.00 TO STA 412+60.00

	HMA BINDER	HMA LEVEL BINDER	HMA SURFACE	HMA SHOULDERS
PG GRADE	PG64-22	PG64-22	PG64-22	PG58-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	4.0% @ N50	2.0% @ N30
MIXTURE COMPOSITION	IL 19.0	IL 9.5	IL 9.5	IL 19.0
FRICTION AGGREGATE	-	-	MIXTURE C	-
DENSITY TEST METHOD	CORES	SATISFACTION OF ENGINEER	CORES	CORES*

- * MATERIAL SHALL BE COMPACTED TO 93.0-97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE, THE MINIMUM PERCENT COMPACTION SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.

FILE NAME =	USER NAME = #USER#	DESIGNED - JML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS				F.A.P. RTE. 840	SECTION 138 BR-3	COUNTY IROQUOIS	TOTAL SHEETS 28	SHEET NO. 5
#FILE#	PLOT SCALE = #SCALE#	DRAWN - JJO/DJM	REVISED -						CONTRACT NO. 66971				
	PLOT DATE = #DATE#	CHECKED - MSW	REVISED -										
		DATE - 07-27-11	REVISED -		SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

TREE REMOVAL (OVER 15 UNITS DIAMETER)	
LOCATION	UNIT
STA 414+23 37' RT	30
TOTAL	30

EARTHWORK				
LOCATION	EARTH EXCAVATION	TOTAL EXCAVATION ADJUSTED FOR 25% SHRINKAGE	EMBANKMENT	BALANCE WASTE (+) SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
STA 409+50 TO STA 415+00	395	300	1030	-730

POROUS GRANULAR EMBANKMENT	
LOCATION	CU YD
STA 411+98 TO STA 412+10	204
STA 412+38 TO STA 412+50	204
TOTAL	408

SEEDING/FERTILIZING						
LOCATION	SEEDING, CLASS 3	NITROGEN FERTILIZER NUTRIENT	PHOSPHOROUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING
	ACRE	POUND	POUND	POUND	SQ YD	POUND
	STA 409+00 LT TO STA 412+06 LT	0.2	18	18	18	832
STA 409+00 RT TO STA 412+14 RT	0.2	18	18	18	789	180
STA 412+34 LT TO STA 415+40 LT	0.2	18	18	18	739	180
STA 412+42 RT TO STA 415+40 RT	0.2	18	18	18	698	180
TOTAL	0.8	72	72	72	3,058	720

EROSION CONTROL			
LOCATION	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION
	FOOT	FOOT	EACH
STA 409+80 46' RT TO STA 409+98 50' RT		19	
STA 409+82 34' RT			1
STA 410+00 35' LT	9		
STA 410+20 50' RT TO STA 410+40 50' RT		20	
STA 411+00 43' LT AND 38' RT	17		
STA 411+70 50' LT TO 411+85 50' LT		15	
STA 411+85 50' LT AND 50' RT	17		
STA 412+55 50' LT AND 50' RT	17		
STA 412+94 40' LT AND 41' RT	17		
STA 413+85 50' LT TO STA 414+40 46' LT		56	
STA 414+00 39' RT	9		
STA 414+70 43' LT TO STA 415+15 36' LT		46	
STA 415+00 33' RT	8		
STA 415+05 30' LT			1
TOTAL	94	156	2

PAVING MATERIALS								
LOCATION	SUB-BASE GRAN MATL TY A 12"	AGG SURF CSE B	BIT MATLS PRIME COAT	LEVELING BINDER (MACHINE METHOD), N50	HMA BINDER CSE, IL-19.0, N50	HMA SURF CSE, MIX "C", N50	AGG SHOULDERS, TY B 6"	HMA SHOULDERS
	SQ YD	TON	GALLON	TON	TON	TON	SQ YD	TON
STA 409+50 TO STA 411+88			96	55	81	61		
STA 409+50 LT TO STA 410+55 LT							55	
STA 409+50 LT TO STA 411+88 LT			70					84
STA 409+50 RT TO STA 409+95 RT							24	
STA 409+50 RT TO STA 411+88 RT			93					111
STA 410+00 RT		26						
STA 411+88 TO STA 412+60	209		88	8	118	16		
STA 411+88 LT TO STA 412+60 LT			32					39
STA 411+88 RT TO STA 412+60 RT			32					39
STA 412+60 TO STA 415+00			96	56	88	61		
STA 412+60 LT TO STA 415+00 LT			105					125
STA 412+60 RT TO STA 415+00 RT			70					84
STA 413+93 RT TO STA 415+00 RT							56	
STA 414+55 LT		21						
STA 414+73 LT TO STA 415+00 LT							14	
TOTAL	209	47	682	119	287	138	149	482

REMOVAL OF PAVING MATERIALS		
LOCATION	HMA SURFACE REMOVAL - BUTT JOINT	PAVEMENT REMOVAL
	SQ YD	SQ YD
STA 409+50 TO STA 410+10	180	
STA 411+88 TO STA 412+15		81
STA 412+33 TO STA 412+60		81
STA 414+40 TO STA 415+00	180	
TOTAL	360	162

FILE NAME =	USER NAME = #USER#	DESIGNED - JML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN - JJO/DJM	REVISED -			840	138 BR-3	IROQUOIS	28	6	
		CHECKED - MSW	REVISED -			CONTRACT NO. 66971					
		DATE - 07-27-11	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
				SCALE:	SHEET NO. OF SHEETS	STA.	TO STA.				

PIPE CULVERTS				
LOCATION	PIPE CULVERT REMOVAL	REMOVE EISTING FLARED END SECTION	PIPE CULVERTS, CLASS D, TYPE 1 15"	END SECTIONS 15"
	FOOT	EACH	FOOT	EACH
STA 410+01.5 27.5' RT		1		
STA 410+25 27.5' RT		1		
STA 410+13 29' RT	27			
STA 410+13 34.5' RT			68	2
STA 413+29 29' LT		1		
STA 413+60 29' LT	37			
STA 413+62.5 29' LT		1		
STA 414+55 34' LT			100	2
TOTAL	64	4	168	4

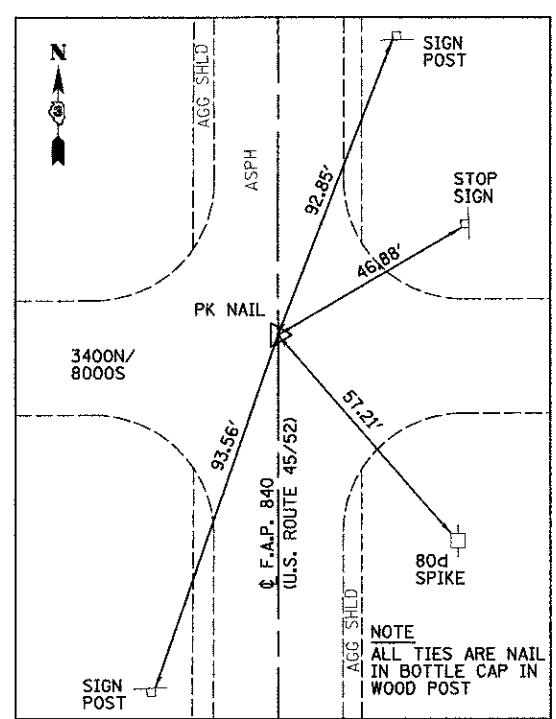
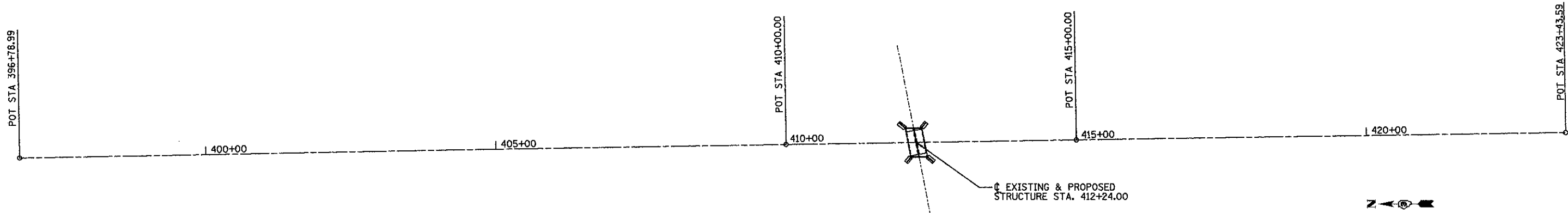
GUARDRAIL				
LOCATION	SPBGR, TYPE A, 6 FT POSTS	SPBGR, ATTACHED TO STRUCTURES	TRAF BAR TERM TY 1 SPL FLR	GUARDRAIL REMOVAL
	FOOT	FOOT	EACH	FOOT
STA 410+33.94 RT TO STA 410+83.94 RT			1	
STA 410+35 RT TO STA 412+15 RT				180
STA 410+83.94 RT TO STA 412+08.94 RT	125			
STA 410+84 LT TO STA 412+15 LT				131
STA 410+89.44 LT TO STA 411+39.44 LT			1	
STA 411+39.44 LT TO STA 412+01.94 LT	62.5			
STA 412+01.94 LT TO STA 412+39.44 LT		37.5		
STA 412+08.94 RT TO STA 412+46.44 RT		37.5		
STA 412+33 LT TO STA 413+50 LT				117
STA 412+33 RT TO STA 413+64 RT				131
STA 412+39.44 LT TO STA 413+64.44 LT	125			
STA 412+46.44 RT TO STA 413+08.94 RT	62.5			
STA 413+08.94 RT TO STA 413+58.94 RT			1	
STA 413+64.44 LT TO STA 414+14.44 LT			1	
TOTAL	375	75	4	559

PAVEMENT MARKING LINE		
LOCATION	PAINT PAVEMENT MARKING - LINE 4"	PAINT PAVEMENT MARKING - LINE 6"
	FOOT	FOOT
STA 409+50 TO STA 415+00		280
STA 409+50 LT TO STA 415+00 LT	1,100	
STA 409+50 RT TO STA 415+00 RT	1,100	
TOTAL	2,200	280

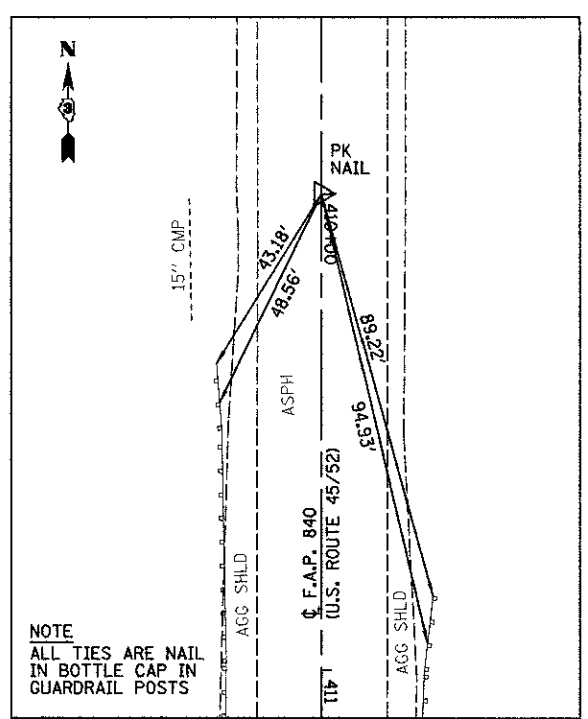
REFLECTORS/MARKERS				
LOCATION	RAISED REFLECTIVE PAVEMENT MARKER	GUARDRAIL MARKERS, TYPE A	TERMINAL MARKER - DIRECT APPLIED	RAISED RELFECTIVE PAVEMENT MARKER REMOVAL
	EACH	EACH	EACH	EACH
STA 409+50 TO STA 415+00	8			8
STA 410+33.94 RT			1	
STA 410+83.94 RT TO STA 413+08.94 RT		4		
STA 410+89.44 LT			1	
STA 411+39.44 LT TO STA 413+64.44 LT		4		
STA 413+58.94 RT			1	
STA 414+14.44 LT			1	
TOTAL	8	8	4	8

FURNISHING AND ERECTING RIGHT-OF-WAY MARKER	
LOCATION	EACH
STA 408+50 40' RT	1
STA 409+00 40' LT	1
STA 409+50 50' RT	1
STA 410+00 50' LT	1
STA 414+00 50' LT	1
STA 414+00 50' RT	1
STA 415+00 40' LT	1
STA 415+00 40' RT	1
TOTAL	8

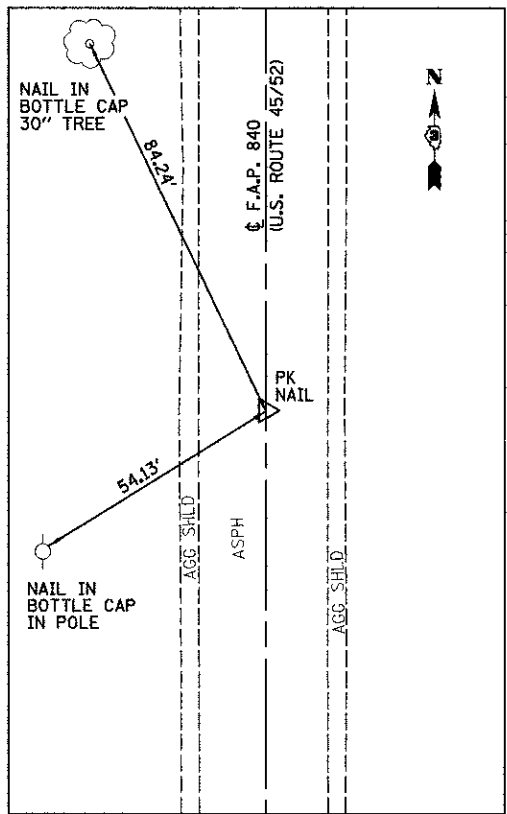
FILE NAME #	USER NAME # USER#	DESIGNED - JML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - JJO/DJM	REVISED -				840	138 BR-3	IROQUOIS	28	7
		CHECKED - MSW	REVISED -		SCALE#	SHEET NO. OF SHEETS	STA.	TO STA.	CONTRACT NO. 66971		
		DATE - 07-27-11	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			



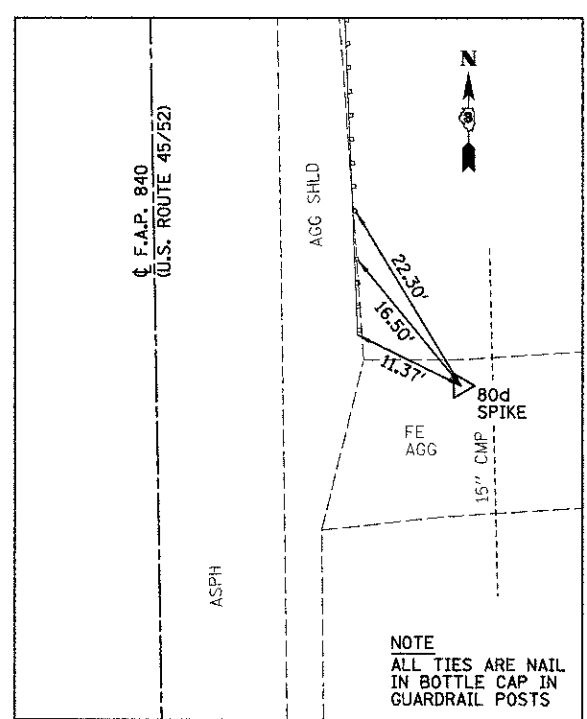
U.S. ROUTE 45/52
 STA 396+78.99 (P.O.T.)
 N = 1579970.022
 E = 1112809.749



U.S. ROUTE 45/52
 STA 410+00.00 (P.O.T.)
 N = 1578649.194
 E = 1112831.705



U.S. ROUTE 45/52
 STA 415+00.00 (P.O.T.)
 N = 1578149.263
 E = 1112840.016



U.S. ROUTE 45/52
 CONTROL POINT
 STA 413+50.83, 28.22' LT
 N = 1578298.890
 E = 1112849.730

BENCHMARK #1
 STA 412+12, 51' RT
 RAILROAD SPIKE
 IN POWER POLE
 ELEV = 633.83

BENCHMARK #2
 STA 412+33, 21' LT
 BRASS DISK SET IN
 TOP OF S.E. WINGWALL
 ELEV = 633.89

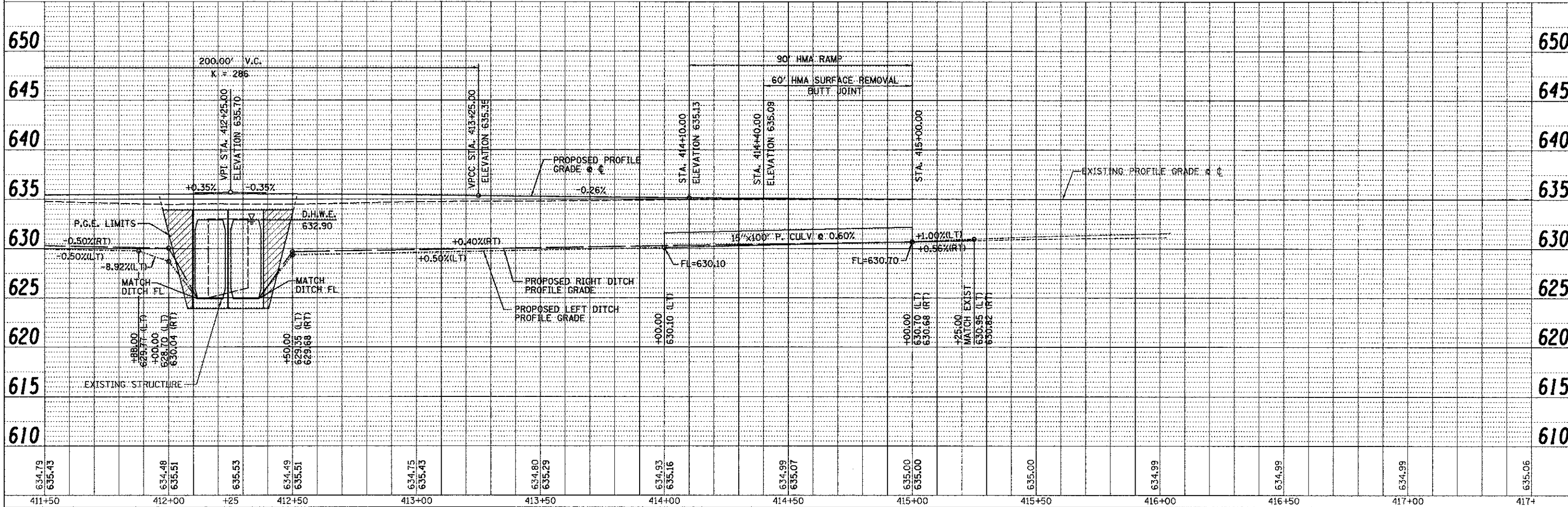
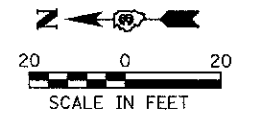
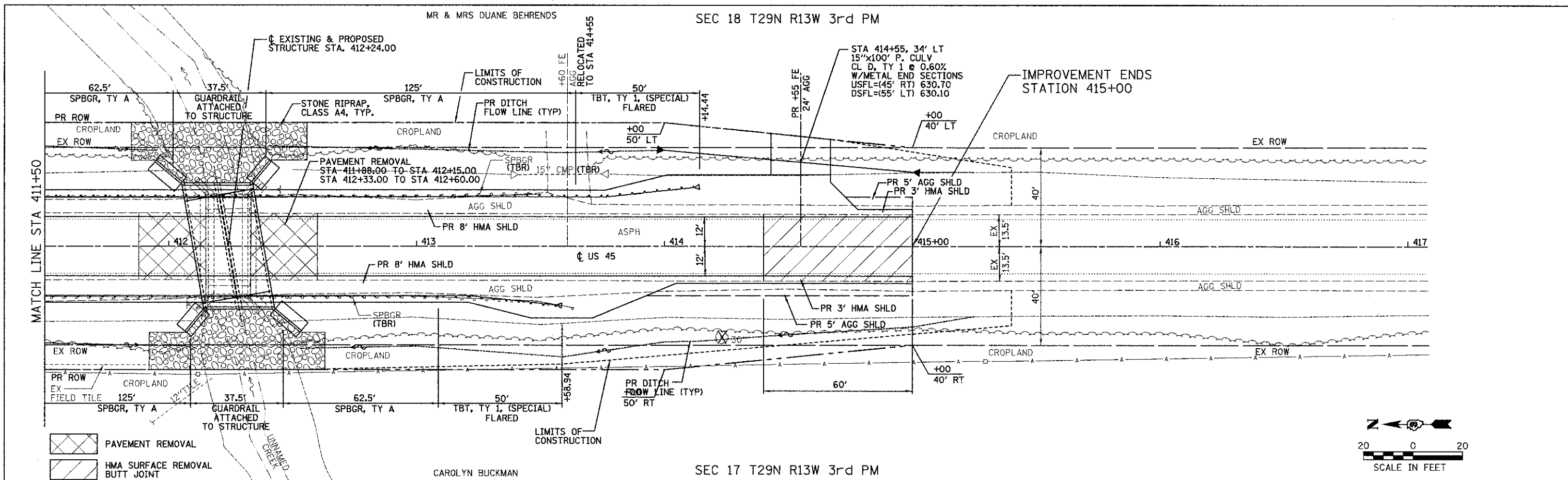
BENCHMARK #3
 STA 413+51, 28' LT
 80d SPIKE IN FIELD
 ENTRANCE
 ELEV = 633.60

BENCHMARK #4
 STA 421+70, 38' RT
 RAILROAD SPIKE
 IN POWER POLE
 ELEV = 637.71

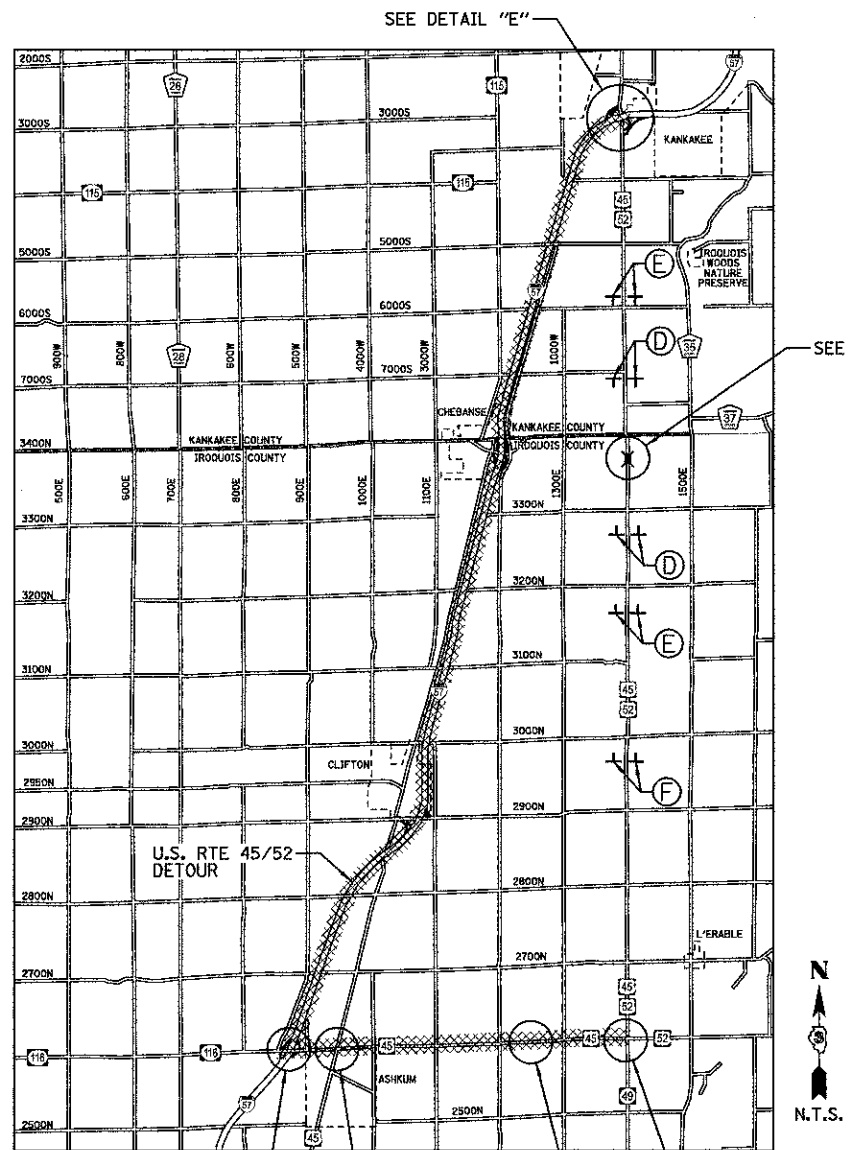
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#FILE#	PLOT SCALE = #SCALE#	DRAWN - JJO/DJM	REVISED -					840	138 BR-3	IROQUOIS	28	8
	PLOT DATE = #DATE#	CHECKED - MSW	REVISED -					CONTRACT NO. 66971				
		DATE - 07-27-11	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PLAN	
NO.	
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PLAN	
NO.	

DATE	
BY	
PROFILE	
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BY	
PROFILE	
NO.	

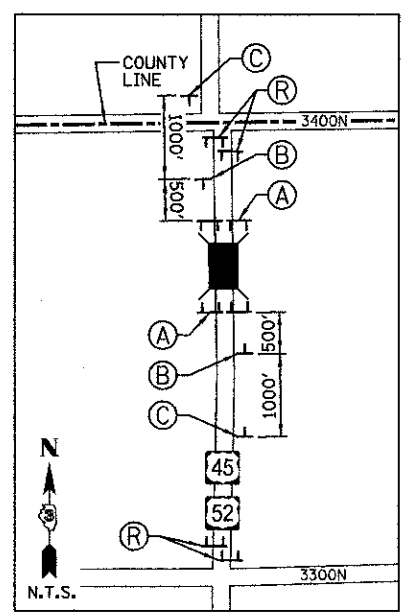


FILE NAME	USER NAME = #USER#	DESIGNED - JML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN AND PROFILE	F.A.P. RTE. 840	SECTION 138 BR-3	COUNTY IROQUOIS	TOTAL SHEETS 28	SHEET NO. 10		
#FILE#	PLOT SCALE = #SCALE#	DRAWN - JJO	REVISED -			SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT			
	PLOT DATE = #DATE#	CHECKED - JML	REVISED -						CONTRACT NO. 66971			
		DATE - 07-27-11	REVISED -									

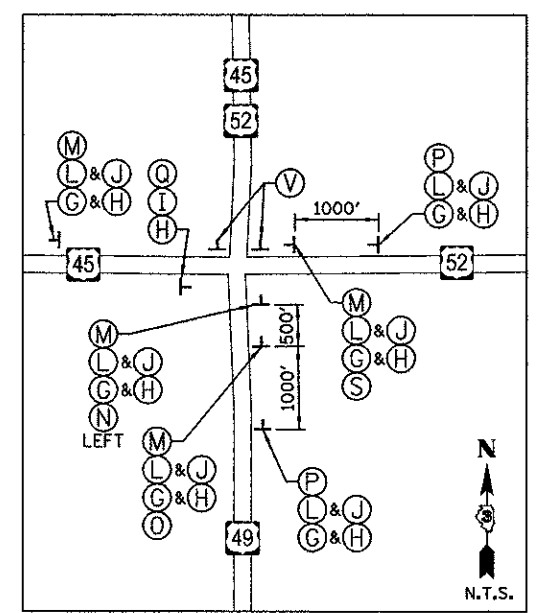


DETOUR MAP

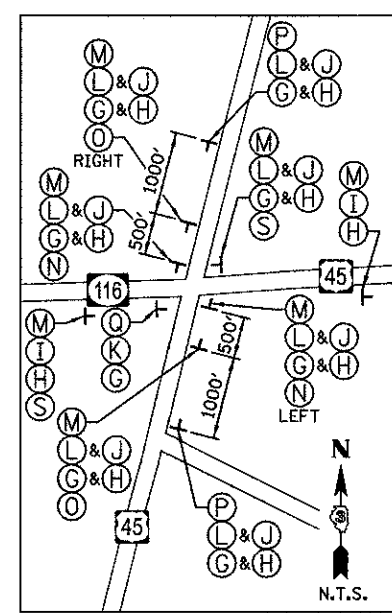
*TO BE PLACED WITH INTERSTATE IDENTIFICATION SIGNS, EXIT SIGNS AND US & ILLINOIS STATE ROUTE MARKERS.



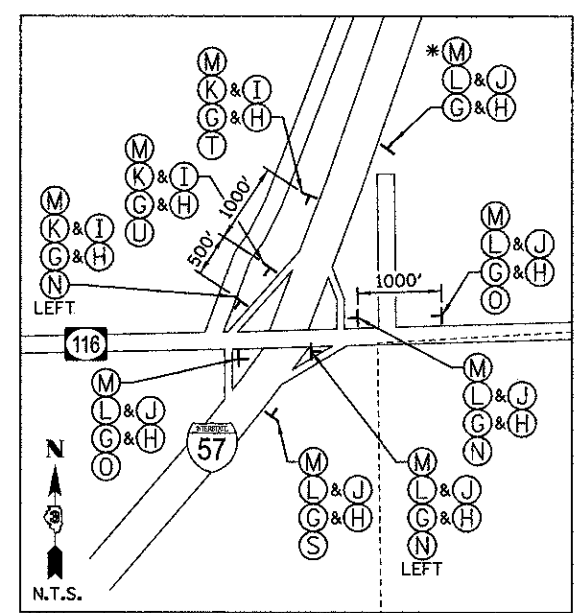
PROJECT LOCATION VICINITY (DETAIL "A")



U.S. RTE. 45/52 INTERSECTION (DETAIL "B")

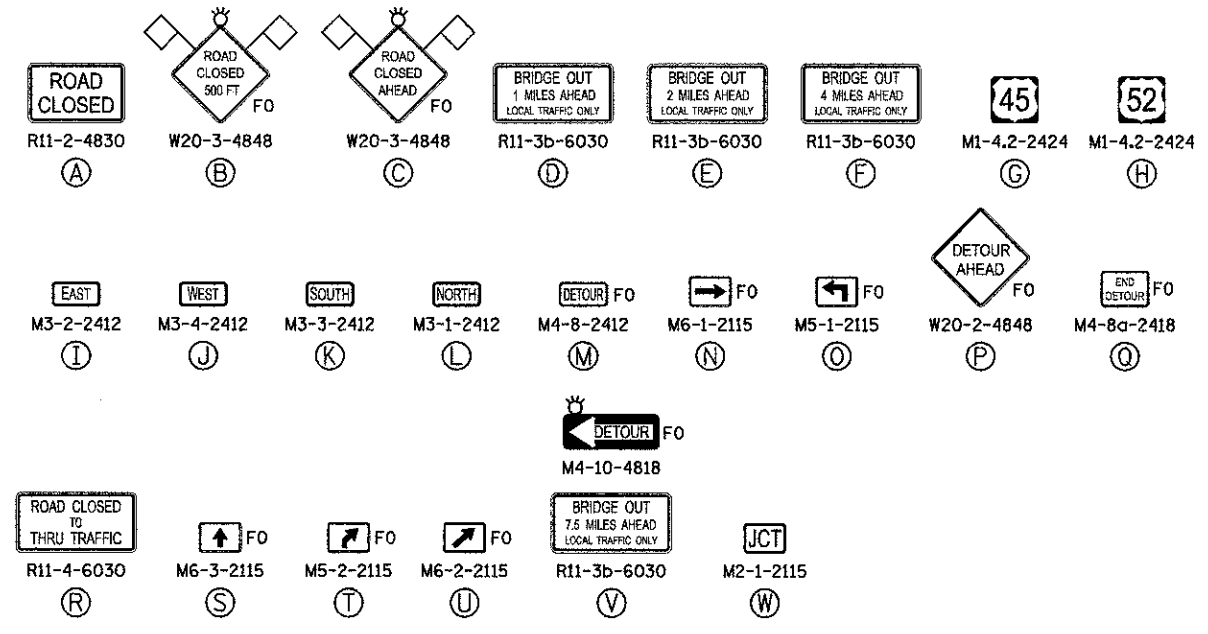


U.S. RTE. 45 INTERSECTION (DETAIL "C")



VILLAGE OF ASHKUM I-57 INTERCHANGE (DETAIL "D")

* PLACE SIGN ADJACENT TO THE "NORTH I-57" ROUTE MARKER (CLIFTON & CHEBANSE INTERCHANGES)

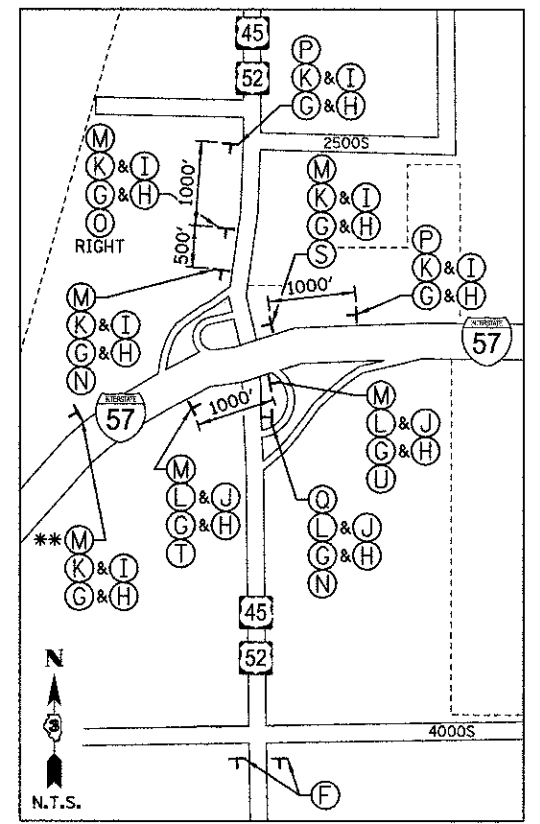


NOTES:

- 1.) ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED AND MAINTAINED BY THE CONTRACTOR.
- 2.) ALL SIGNS NOT ATTACHED TO BARRICADES SHALL BE POST MOUNTED, UNLESS OTHERWISE NOTED.
- 3.) LOCATIONS OF TRAFFIC CONTROL DEVICES MAY BE ADJUSTED BY THE ENGINEER.
- 4.) WORK SHALL BE DONE IN ACCORDANCE WITH BLR 21.
- 5.) TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES, THE HIGHWAY STANDARDS AND SPECIAL PROVISIONS.
- 6.) COVER ANY SIGNS DENOTING NORTH US ROUTE 45/52 WITHIN A MILE RADIUS OF THE INTERSECTION BETWEEN IL ROUTE 49 AND US ROUTE 45/52. COVER ANY SIGNS DENOTING SOUTH US ROUTE 45/52 WITHIN A MILE RADIUS OF THE INTERCHANGE BETWEEN INTERSTATE 57 AND US ROUTE 45/52.

LEGEND

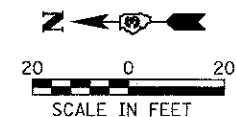
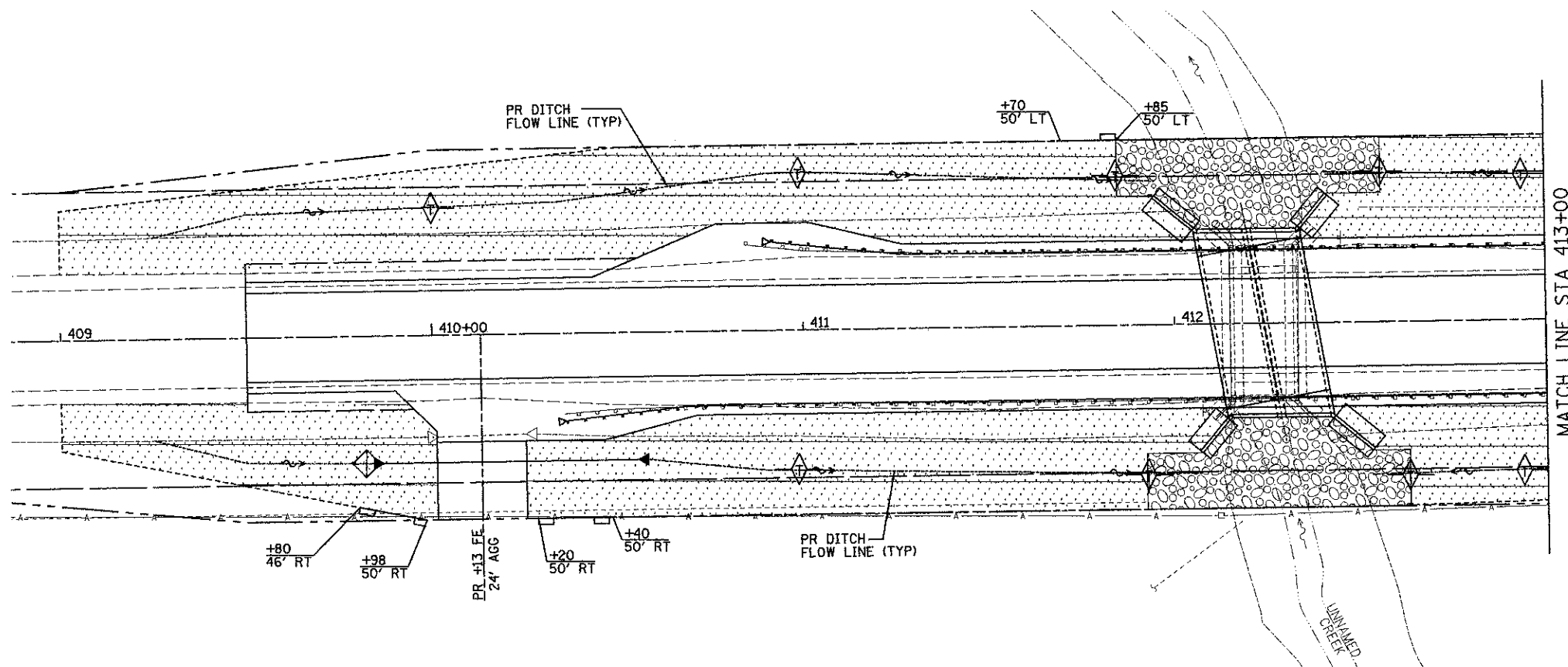
- TT TYPE III BARRICADES CONFORMING TO STD. 701901 "ROAD CLOSED TO ALL TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
- TT TYPE III BARRICADES CONFORMING TO STD. 701901 "ROAD CLOSED TO THRU TRAFFIC" WITH 2 FLASHING LIGHTS PER BARRICADE
- J SIGNS ON PERMANENT SUPPORTS
- FO FLASHING LIGHT ABOVE SIGN
- 18"x18" ORANGE FLAG
- DETOUR ROUTE
- FO FLORESCENT ORANGE



CITY OF KANKAKEE INTERCHANGE (DETAIL "E")

** PLACE SIGN ADJACENT TO THE "SOUTH I-57" ROUTE MARKER (CLIFTON & CHEBANSE INTERCHANGES)

FILE NAME =	USER NAME = #USER#	DESIGNED - JML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR PLAN			F.A.P. RTE. 840	SECTION 138 BR-3	COUNTY IROQUOIS	TOTAL SHEETS 28	SHEET NO. 11
#FILE#	PLOT SCALE = #SCALE#	DRAWN - JJD/DJM	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	CONTRACT NO. 66971		
	PLOT DATE = #DATE#	CHECKED - MSW	REVISED -							FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
		DATE - 07-27-11	REVISED -									

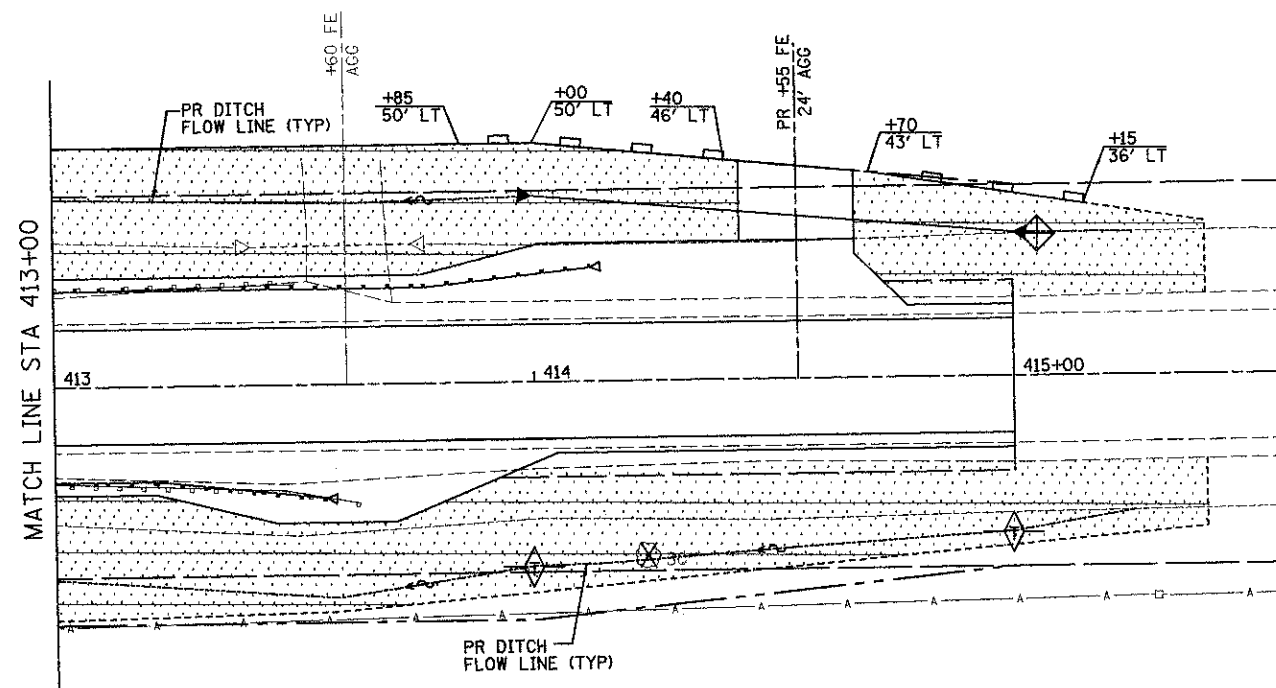


NOTES:

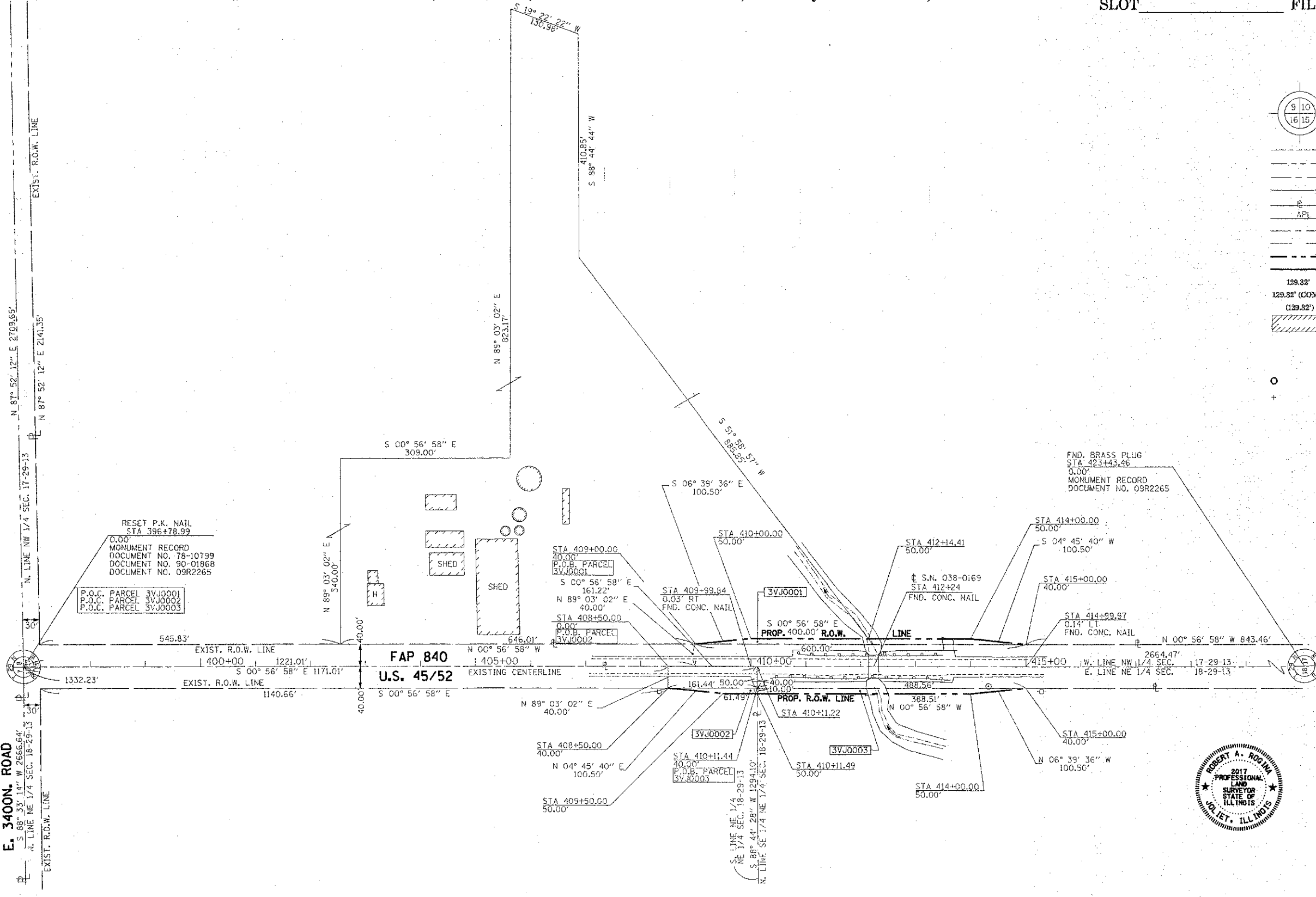
1. ALL SEDIMENT AND EROSION CONTROL SYSTEMS SHALL BE CONSTRUCTED WITHIN THE RIGHT-OF-WAY OR PROPOSED RIGHT-OF-WAY.
2. ALL SEDIMENT AND EROSION CONTROL SYSTEMS SHALL BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EACH 1/2 " OR GREATER RAIN EVENT.

LEGEND

- TEMPORARY DITCH CHECK @ 100' SPACING UNLESS OTHERWISE NOTED
- INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER
- TEMPORARY EROSION CONTROL SEEDING, EROSION CONTROL BLANKET & SEEDING, CLASS 3
- STONE RIPRAP, CLASS A4 & FILTER FABRIC
- LIMITS OF CONSTRUCTION
- TREE REMOVAL



FILE NAME =	USER NAME = #USERS	DESIGNED - JML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = #DATE*	CHECKED - MSW	REVISED -			CONTRACT NO. 66971					
		DATE - 07-27-11	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
				SCALE: SHEET NO. OF SHEETS STA. TO STA.							



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- EXISTING BUILDING

IRON PIPE OR ROD FOUND "MAG" NAIL SET
 CUT CROSS FOUND OR SET 5/8" REBAR SET

AFTER R.O.W. PLANS ARE APPROVED, ROGINA & ASSOCIATES, LTD. WILL STAKE PROPOSED R.O.W. POINTS AND SUBMIT A SEPERATE STAKING PLAN.

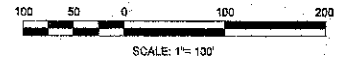
STATE OF ILLINOIS)
)
 COUNTY OF WILL)

THIS IS TO CERTIFY THAT I, ROBERT A. ROGINA, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 17 & 18, TOWNSHIP 29 NORTH, RANGE 13 WEST OF THE SECOND PRINCIPAL MERIDIAN, IROQUOIS COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT JOLIET, ILLINOIS THIS 12th DAY OF AUGUST, 2009 A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2017
 LICENSE EXPIRATION DATE: 11/30/2010

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



Bearings are referenced to the Illinois Coordinate System, NAD83, East Zone.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	TOTAL R.O.W. REQUIRED ACRES	AREA IN EXISTING R.O.W. ACRES	NET R.O.W. REQUIRED ACRES	REMAINDER AREA ACRES
3VJ0001	DUANE G. BEHRENS, et ux, TRUSTEES	129.250±	0.115	N/A	0.115	129.135±
3VJ0002	THOMAS D. REESE, TRUSTEE et al	40.00±	0.174	0.148	0.026	39.826±
3VJ0003	CAROLYN M. BUCKMAN, TRUSTEE	117.930±	0.101	N/A	0.101	117.829±

**ILLINOIS DEPARTMENT OF TRANSPORTATION
 PLAT OF HIGHWAYS**

PROJECT NO.:	ROUTE: F.A.P. 840 (U.S. 45/52)	JOB NO.:	R-93-004-09
CONTRACT NO.:	66971	SECTION:	138BR-3
SCALE:	1"=100'	STA 408+50 TO STA 415+00	COUNTY: IROQUOIS
			SHEET NO. 1 OF 1 SHEETS

SHEET 124 OF 28

PREPARED BY: **ROGINA & ASSOCIATES, LTD.**
 ENGINEERS SURVEYORS PLANNERS
 93 Caterpillar Drive Joliet, Illinois 61572-0777 FAX 815/729-0782

FILE NAME =	USER NAME = milton	DESIGNED -	REVISED - 04/27/09
		DRAWN - M. MILTON	REVISED -
		CHECKED - J. KELLA	REVISED -
		DATE - 03/02/09	REVISED -

Benchmarks:
 Railroad spike in power pole, NW quadrant of culvert, Station 412+12/51' RT., Elevation 633.83.

Existing Structure:
 S.N. 038-0169, built in 1928. The superstructure consists of a single-span reinforced concrete slab with steel railing attached and a bituminous wearing surface. The substructure consists of concrete closed abutments supported by untreated timber piles. The back to back of abutments dimension measures approximately 18'-0". Structure to be closed and traffic detoured during construction.

No Salvage.

WATERWAY INFORMATION

Drainage Area = 5.83 Sq. Mi.		Existing Low Grade Elev. 634.48 @ Sta. 412+00		Proposed Low Grade Elev. 634.48 @ Sta. 412+00					
Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	*Head - Ft.	Headwater El.			
			Exist. Prop.	Exist. Prop.	Exist. Prop.	Exist. Prop.			
Design	10	808	99	177	632.3	2.3	0.4	634.6	632.7
Base	50	1292	109	192	632.9	2.2	1.0	635.1	633.9
Overlapping (exist.)	100	1505	111	192	633.0	3.8	1.4	636.8	634.4
Overlapping (prop.)	10	808	99	177	632.3	2.3	0.4	634.6	632.7
Max. Calc.	250	1698	111	192	633.2	3.4	1.5	636.6	634.7
	500	2019	111	192	633.5	2.0	1.8	635.5	635.3

10 year velocity through Existing Structure = 8.2 fps
 10 year velocity through Proposed Structure = 4.6 fps

STATION 412+24
 BUILT 20... BY
 STATE OF ILLINOIS
 F.A.P. RT. 840 SEC. 138 BR-3
 LOADING HS20-44
 STR. NO. 038-2024

NAME PLATE
 See Standard 515001

LOADING HS20-44
 Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

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

PRECAST UNITS
 f'c = 5,000 psi (Precast)
 fy = 60,000 psi (Reinforcement)
 fy = 65,000 psi (Welded Wire Fabric)

DESIGN SPECIFICATIONS
 AASHTO 2002

TOTAL BILL OF MATERIAL - BOX CULVERT

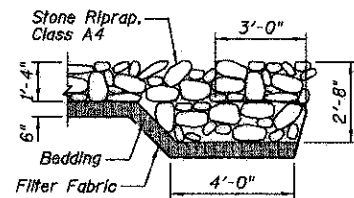
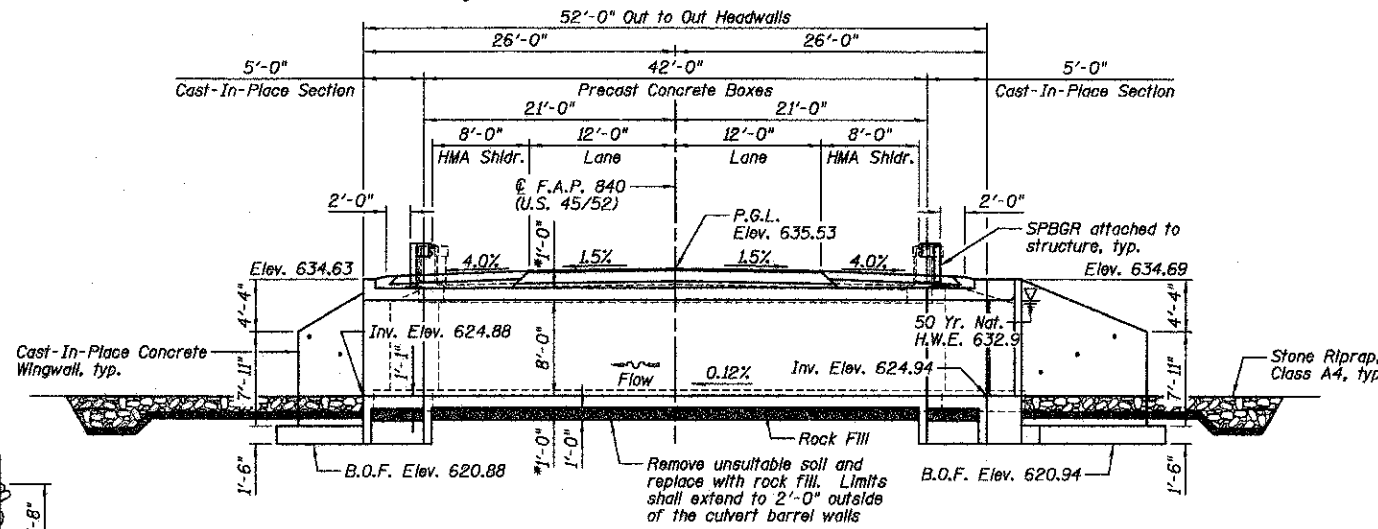
ITEM	UNIT	TOTAL
Removal And Disposal Of Unsuitable Material	Cu. Yd.	61
Stone Riprap, Class A4	Sq. Yd.	314
Filter Fabric	Sq. Yd.	314
Removal Of Existing Structures	Each	1
Reinforcement Bars	Pound	10,390
Reinforcement Bars, Epoxy Coated	Pound	700
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	81.2
Precast Concrete Box Culvert 12'x8' (M273)	Foot	84
Rock Fill	Cu. Yd.	57

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.) Cast-In-Place concrete exposed edges shall be beveled 3/4".
- 5.) It shall be the responsibility of the Contractor to divert the stream flow during construction in order to keep the construction area free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included with the cost of "Concrete Box Culverts".
- 6.) Structural seal does not include design of precast elements.
- 7.) The precast concrete culvert sections shall be designed and manufactured in accordance with AASHTO M273 (ASTM C 850).
- 8.) For backfilling and embankment, see Standard Specifications.
- 9.) End of precast section shall not have a bell or spigot.
- 10.) Contractor to confirm all precast culvert dimensions with supplier before starting construction. All applicable cast-in-place concrete dimensions shall match precast culvert dimensions.
- 11.) See Sheet B7 and B8 for soil borings.
- 12.) The last section of precast culvert shall have an integral toe wall and reinforcing bars extending from the precast culvert as shown on Sheet B2.
- 13.) The Contractor shall reshape the channel within the Right-Of-Way in order to facilitate drainage and the placement of riprap as directed by the Engineer. The cost of reshaping the channel shall be included in the cost of "Removal of Existing Structures".
- 14.) Alternate extended bars from precast section in slab so top and bottom mats of reinforcement do not lap at the same location.

INDEX TO SHEETS

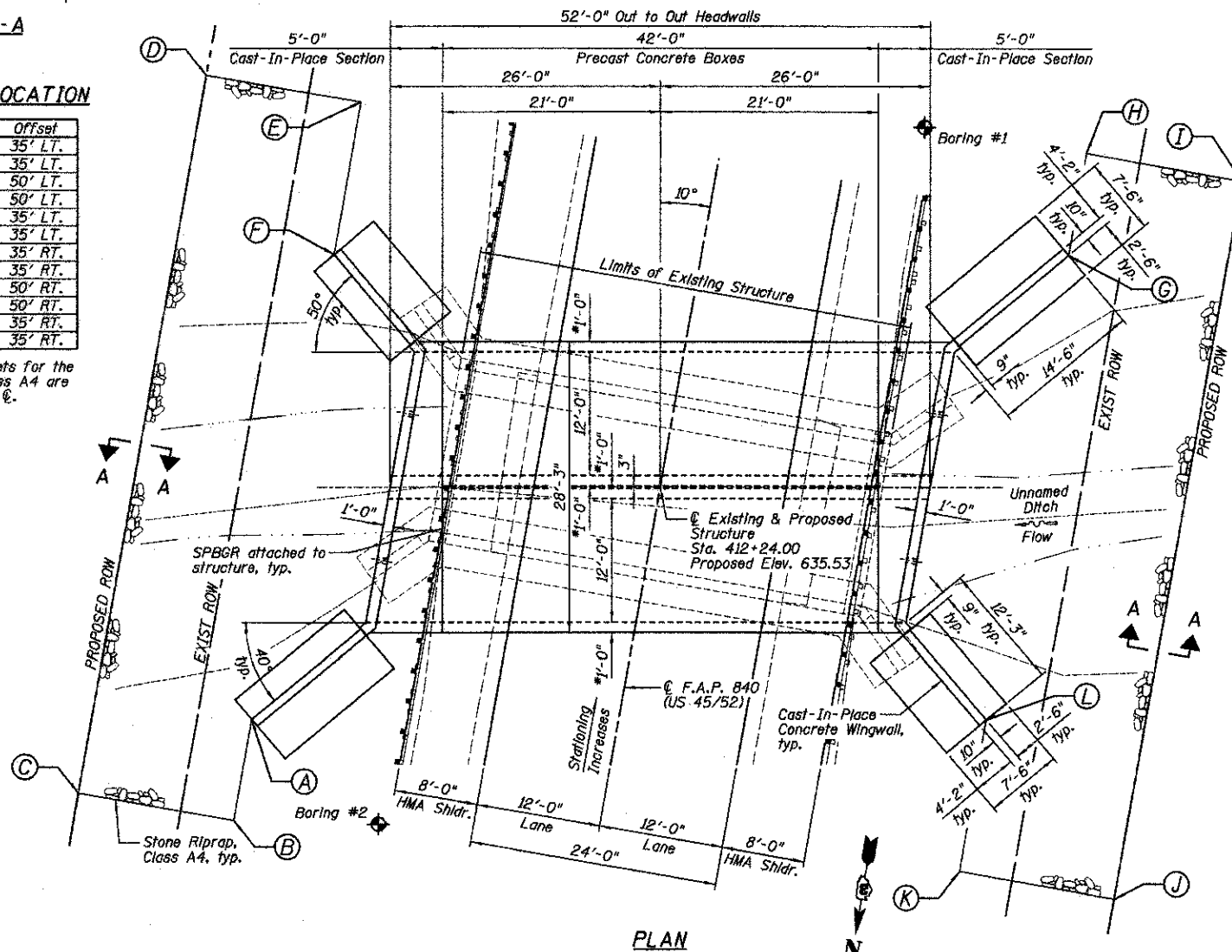
SHEET NO.	TITLE
B1	GENERAL PLAN AND ELEVATION
B2	DOUBLE BOX CULVERT LONGITUDINAL SECTION AND PRECAST CONCRETE
B3	CAST-IN-PLACE CONCRETE CULVERT ELEVATIONS, SECTION AND DETAILS
B4	CAST-IN-PLACE TOP SLAB PLAN AND SECTION
B5	CAST-IN-PLACE BOTTOM SLAB PLAN AND SECTION
B6	WINGWALLS
B7-B8	SOIL BORING LOGS
B9-B10	EXISTING PLANS



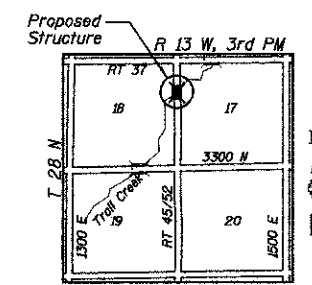
STONE RIPRAP LOCATION

Location	Station	Offset
A	411+95	35' LT.
B	411+85	35' LT.
C	411+85	50' LT.
D	412+56	50' LT.
E	412+56	35' LT.
F	412+41	35' LT.
G	412+53	35' RT.
H	412+63	35' RT.
I	412+63	50' RT.
J	411+92	50' RT.
K	411+92	35' RT.
L	412+07	35' RT.

Note: Stations and offsets for the Stone Riprap, Class A4 are from the roadway E.



Mark S. Wylie Date 7/25/11
 MARK S. WYLIE
 ILLINOIS STRUCTURAL ENGINEER
 NO. 081-005002
 Exp. Date 11/30/12



GENERAL PLAN AND ELEVATION
 US 45/52 OVER
 UNNAMED DITCH
 F.A.P. 840 - SECTION 138 BR-3
 IROQUOIS COUNTY
 STA. 412+24.00
 STRUCTURE NO. 038-2024

- NOTES:**
- 1.) *Confirm slab and wall thickness with Precaster.
 - 2.) B.O.F. denotes Bottom Of Footing.
 - 3.) P.G.L. denotes Profile Grade Line.

Farnsworth GROUP, INC.
 2706 McGraw Drive
 Bloomington, Illinois 61704
 309/863-8435, 309/863-1571 fax

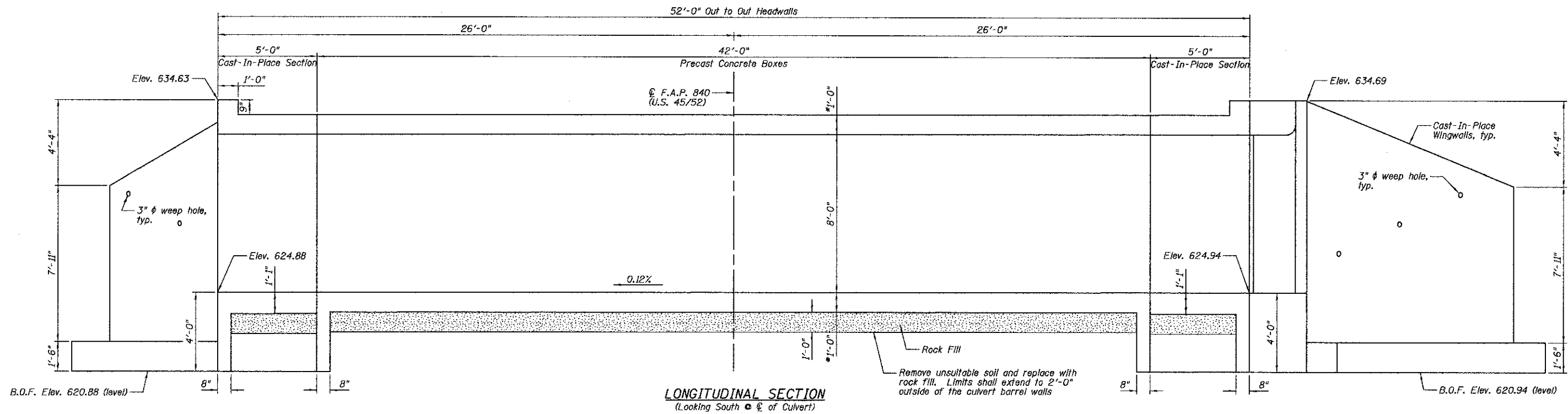
DESIGNED - DKS	REVISD
CHECKED - SDH	REVISD
DRAWN - DJM/JWK	REVISD
CHECKED - MSW	REVISD

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. B1 OF 10 SHEETS

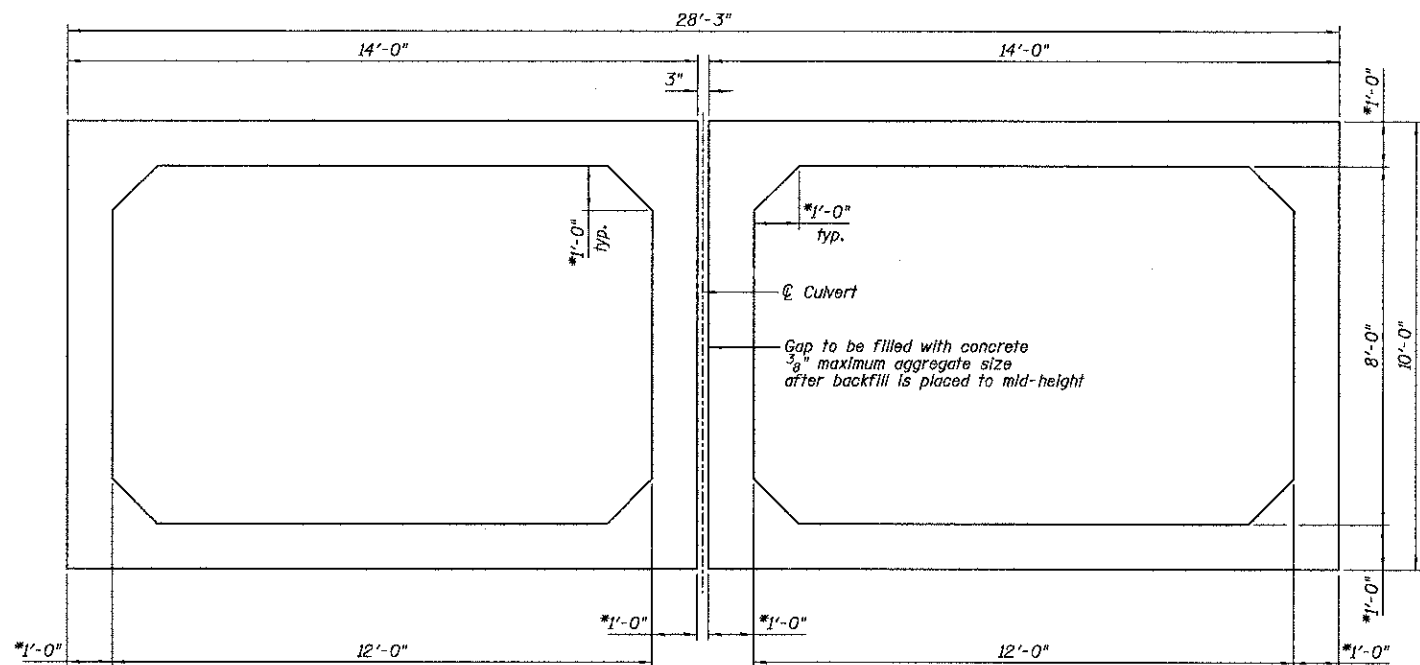
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	138 BR-3	IROQUOIS	28	13

CONTRACT NO. 66971
 ILLINOIS FED. AID PROJECT

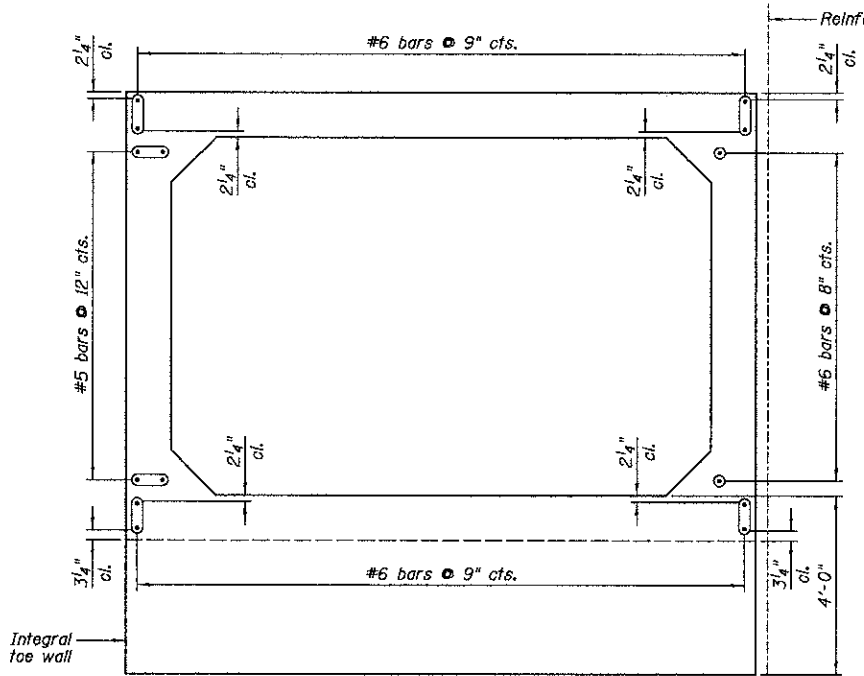


LONGITUDINAL SECTION
(Looking South @ C of Culvert)

Remove unsuitable soil and replace with rock fill. Limits shall extend to 2'-0" outside of the culvert barrel walls



SECTION THRU PRECAST CONCRETE BARREL



PRECAST CONCRETE CULVERT END ELEVATION

Sections are symmetrical about C of Culvert.

BILL OF MATERIAL

Item	Unit	Quantity
Precast Concrete Box Culvert 12'x8' (M273)	Foot	84

NOTES:

- 1.) Confirm slab and wall thickness with Precaster.
- 2.) For Cast-In-Place concrete portions, see Sheet B3-B5.
- 3.) B.O.F. denotes Bottom Of Footing.
- 4.) Cost of reinforcing bars extending from precast barrels included with the cost of Precast Concrete Box Culvert (M273).

Farnsworth GROUP, INC.
2709 McGraw Drive
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DATE - 07-27-11	

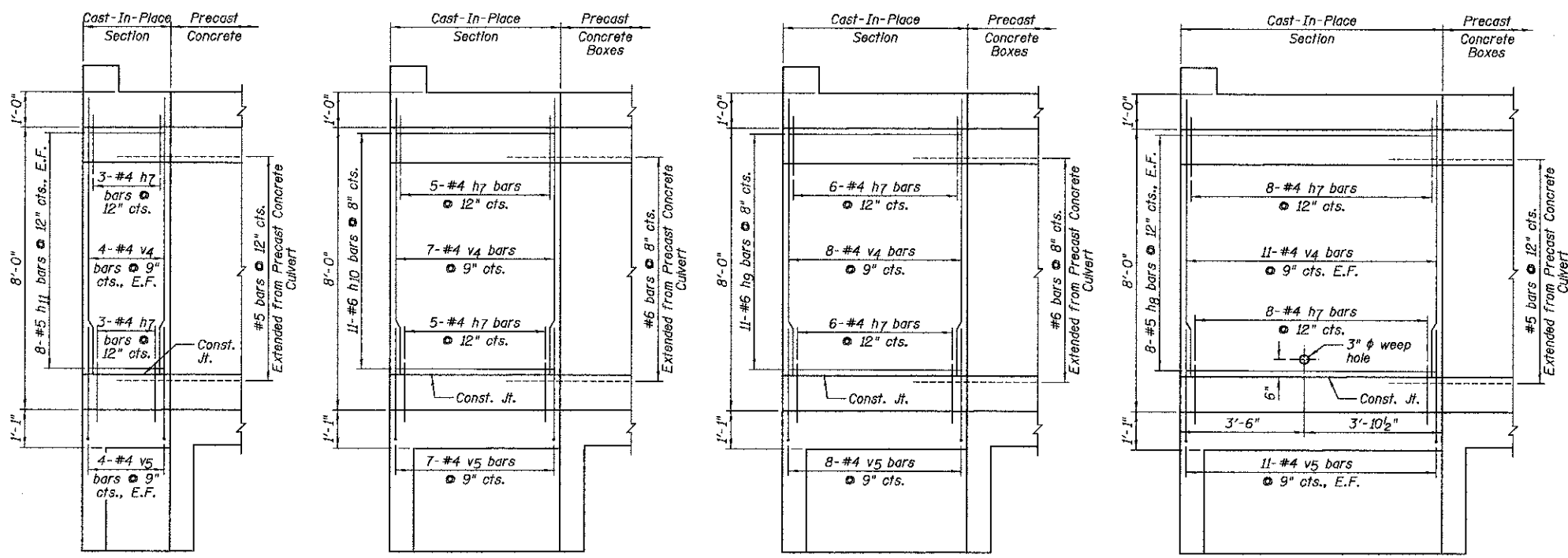
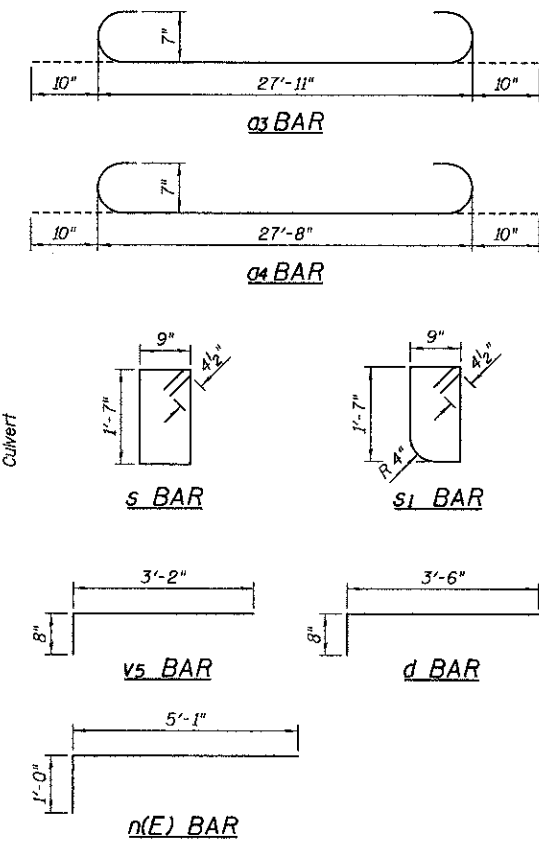
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DOUBLE BOX CULVERT LONGITUDINAL SECTION AND PRECAST CONCRETE
STRUCTURE NO. 038-2024
SHEET NO. B2 OF 10 SHEETS

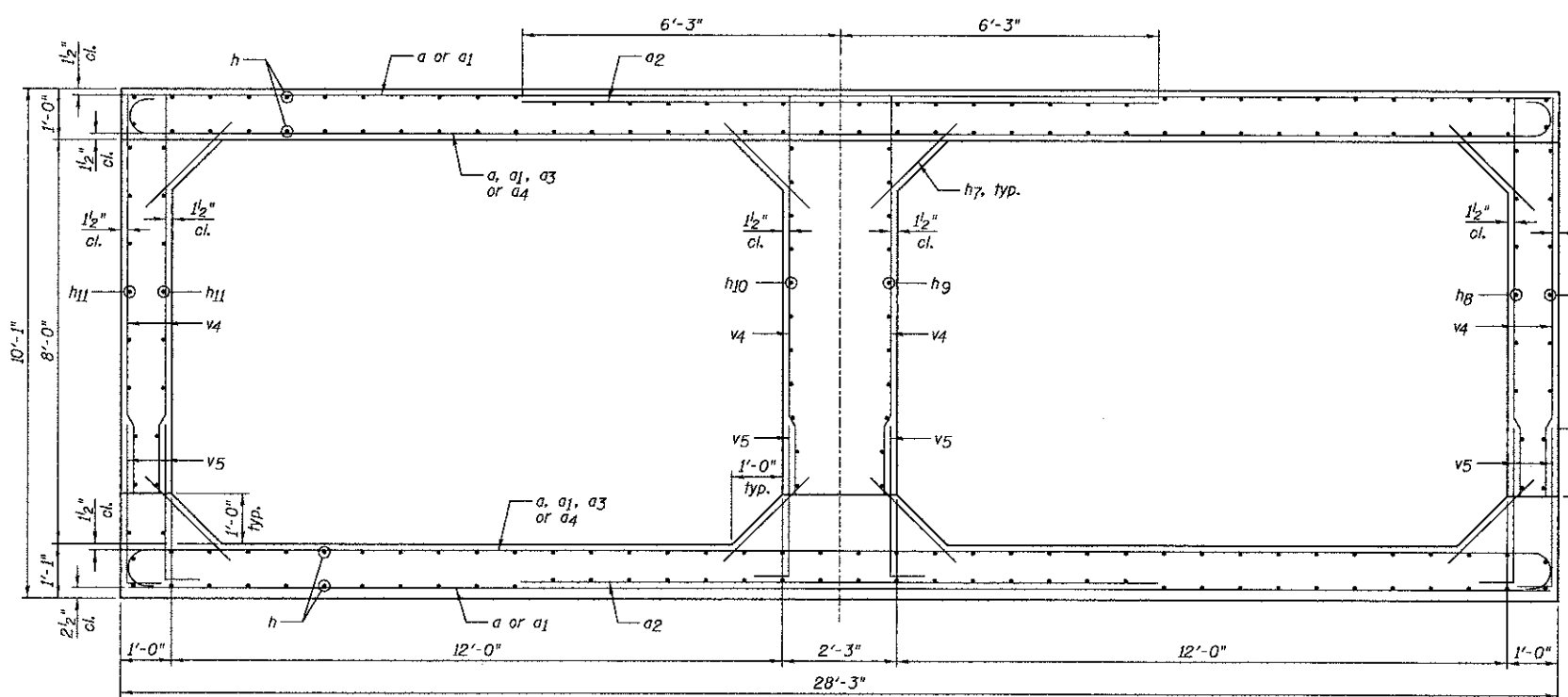
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	138 BR-3	IROQUOIS	28	14
				CONTRACT NO. 66971
ILLINOIS FED. AID PROJECT				

BILL OF MATERIAL

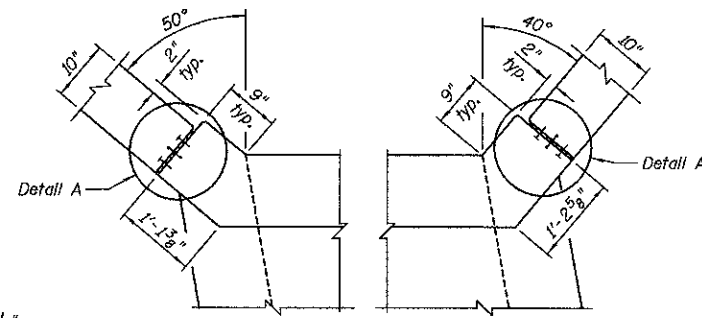
Bar	No.	Size	Length	Shape
a	16	#7	27'-11"	---
a1	16	#7	27'-8"	---
a2	12	#7	12'-6"	---
a3	8	#7	29'-7"	(---)
a4	6	#7	29'-4"	(---)
d	78	#4	4'-2"	---
h	152	#6	9'-4"	---
h1	8	#6	27'-6"	---
h2	8	#4	28'-4"	---
h3	8	#4	2'-2"	---
h4	8	#4	7'-2"	---
h5	38	#4	13'-4"	---
h6	38	#4	11'-2"	---
h7	88	#4	3'-6"	---
h8	32	#5	7'-0"	---
h9	22	#6	4'-10"	---
h10	22	#6	4'-5"	---
h11	32	#5	2'-2"	---
n(E)	78	#6	6'-0"	---
s	29	#4	5'-5"	---
s1	29	#4	5'-3"	---
t	156	#4	7'-2"	---
v	21	#5	19'-10"	---
v1	5	#4	19'-10"	---
v2	18	#5	19'-10"	---
v3	4	#4	19'-10"	---
v4	90	#4	7'-10"	---
v5	90	#4	3'-10"	---
w	32	#4	13'-4"	---
w1	32	#4	11'-1"	---
Item	Unit	Quantity		
Reinforcement Bars	Pound	10,390		
Reinforcement Bars, Epoxy Coated	Pound	700		
Name Plates	Each	1		
Concrete Box Culverts	Cu Yd	81.2		



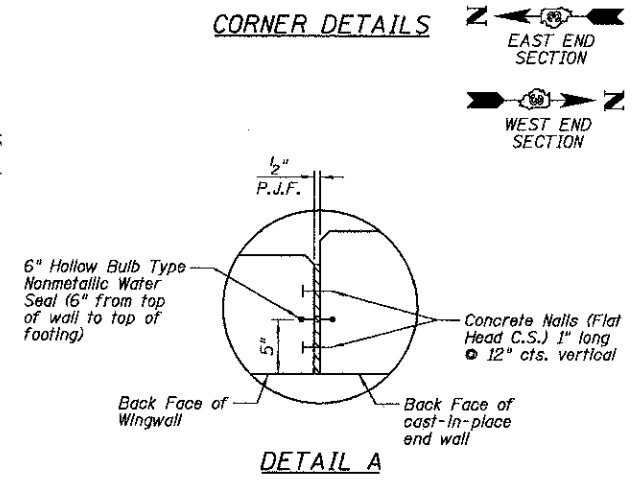
EXTERIOR WALL ELEVATION (SHORT) **INTERIOR WALL ELEVATION (SHORT)** **INTERIOR WALL ELEVATION (LONG)** **EXTERIOR WALL ELEVATION (LONG)**



SECTION THRU CAST-IN-PLACE CONCRETE BARRELS

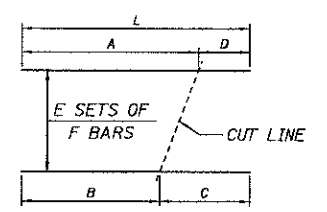


CORNER DETAILS



DETAIL A

BAR CUTTING DIAGRAM



BAR	A	B	C	D	E	F	L
a1	25'-2"	2'-6"	25'-2"	2'-6"	4	4	27'-8"
a4	21'-5"	6'-3"	21'-5"	6'-3"	3	2	27'-8"
h	7'-2"	2'-2"	7'-2"	2'-2"	4	38	9'-4"
v	7'-9"	12'-1"	7'-9"	12'-1"	1	21	19'-10"
v1	7'-9"	12'-1"	7'-9"	12'-1"	1	5	19'-10"
v2	7'-9"	12'-1"	7'-9"	12'-1"	1	18	19'-10"
v3	7'-9"	12'-1"	7'-9"	12'-1"	1	4	19'-10"

Note: "L" dimension does not take into account the hook length for the hooked bar a4.

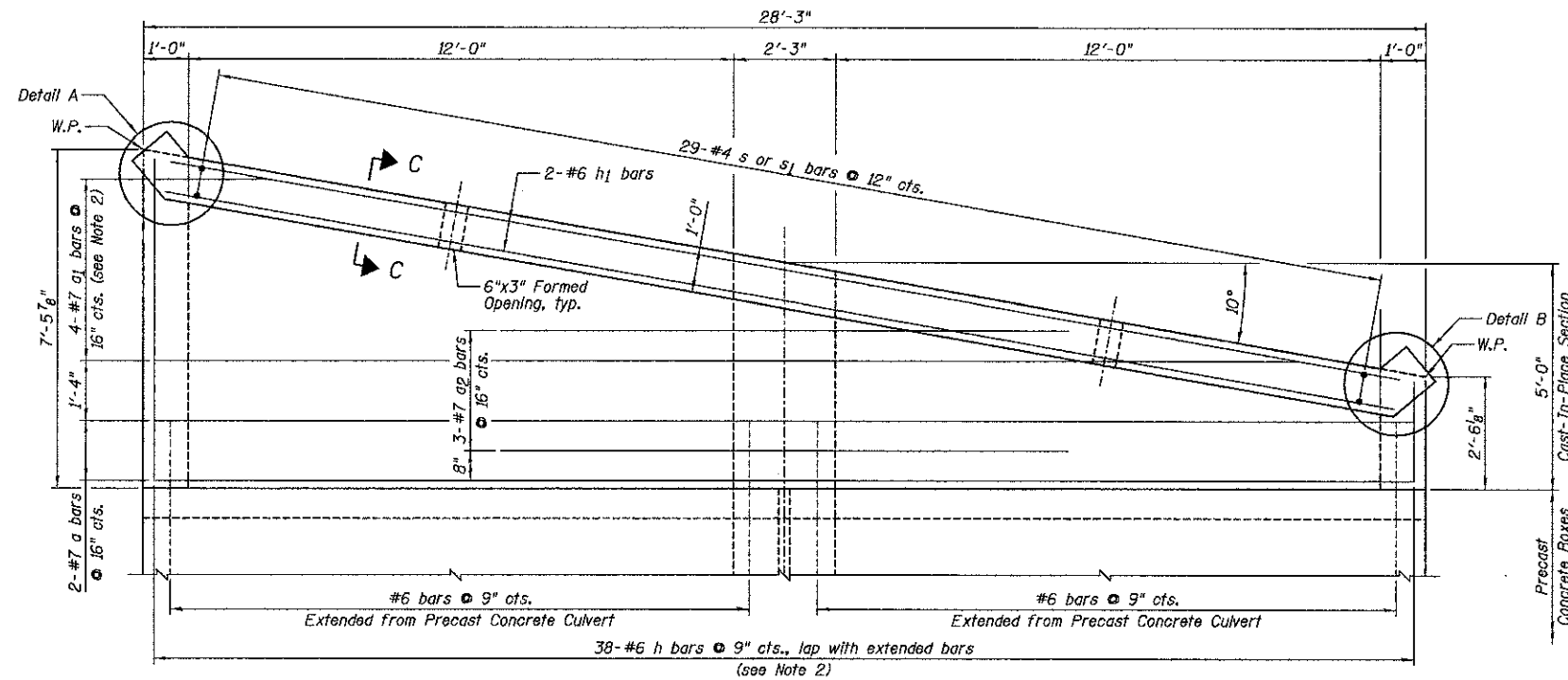
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Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

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DATE - 07-27-11	

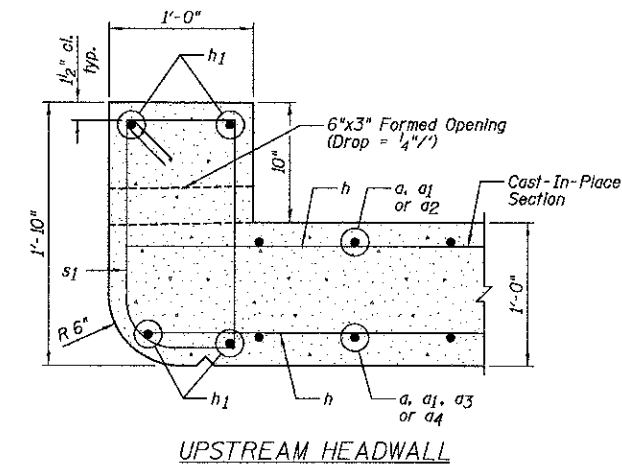
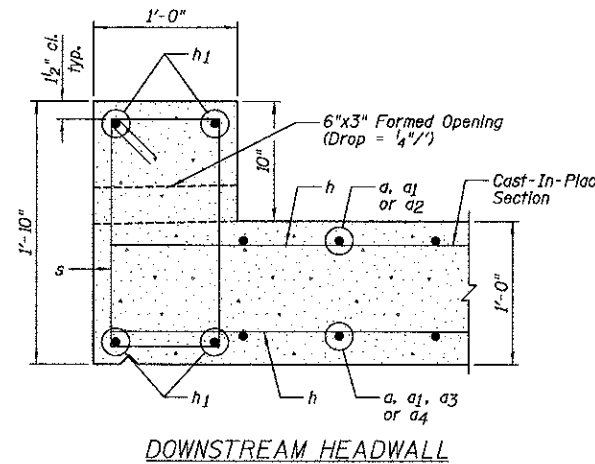
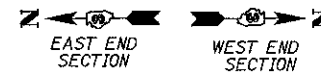
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE CONCRETE CULVERT ELEVATIONS, SECTION AND DETAILS
STRUCTURE NO. 038-2024
SHEET NO. B3 OF 10 SHEETS

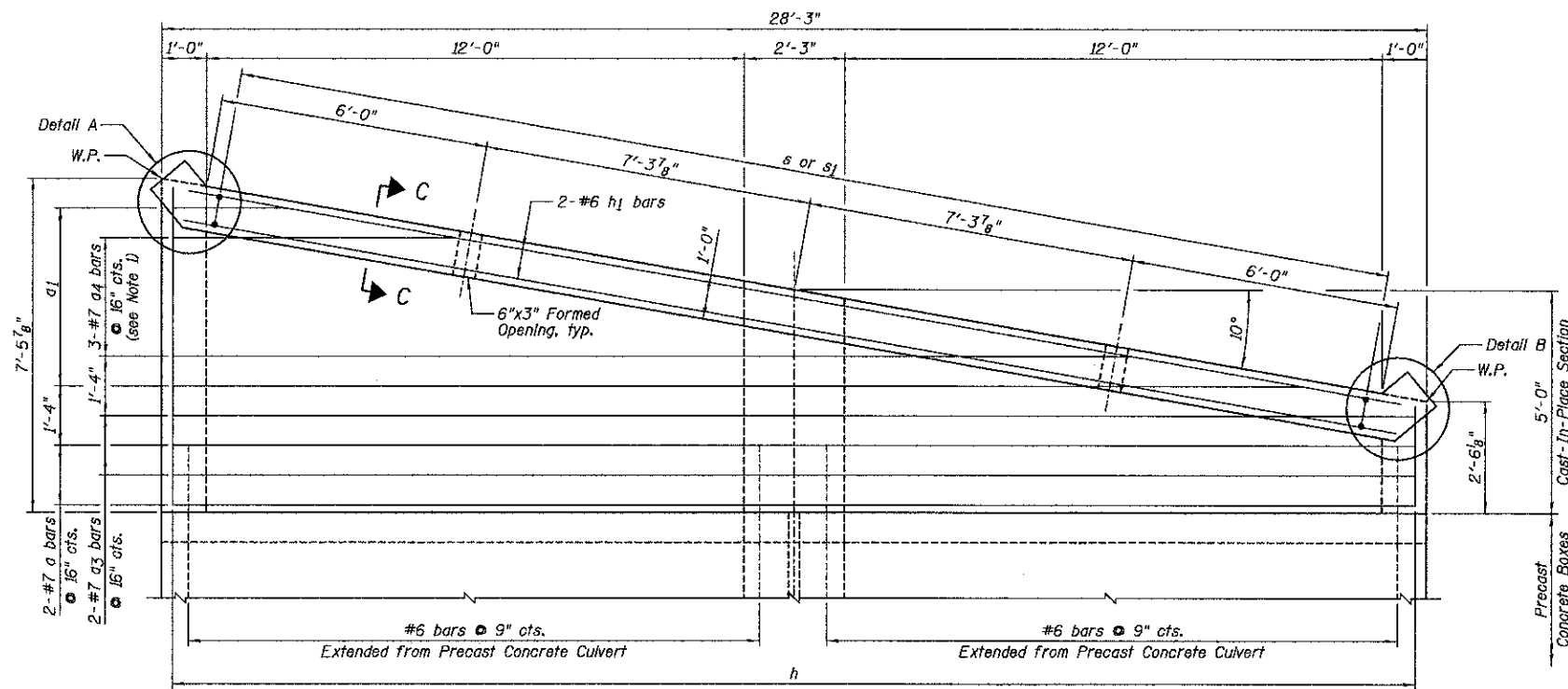
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	138 BR-3	IROQUOIS	28	15
CONTRACT NO. 66971			ILLINOIS FED. AID PROJECT	



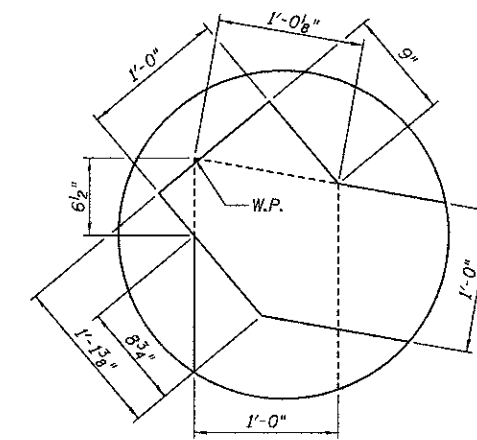
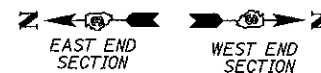
TOP MAT OF REINFORCEMENT PLAN



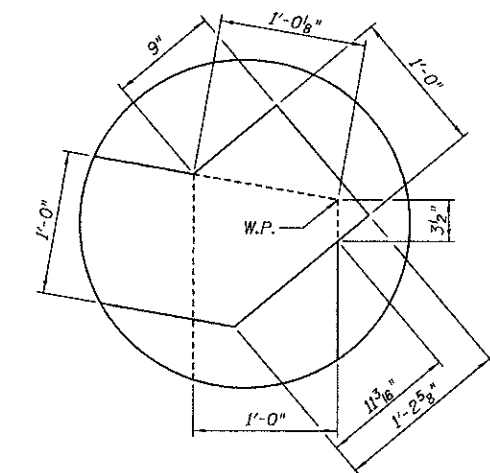
SECTION C-C



BOTTOM MAT OF REINFORCEMENT PLAN



DETAIL A



DETAIL B

NOTES:

- 1.) Order a4 bars full length, cut according to Bar Cutting Diagram on Sheet B3. Use remainder of bars in bottom slab, top mat.
- 2.) Order a1 and h bars full length, cut according to Bar Cutting Diagram on Sheet B3. Use remainder of bars in bottom mat.
- 3.) For Bill of Material, see Sheet B3.
- 4.) W.P. denotes Working Point.

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2706 McGraw Drive
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309/663-3435, 309/663-1574 fax

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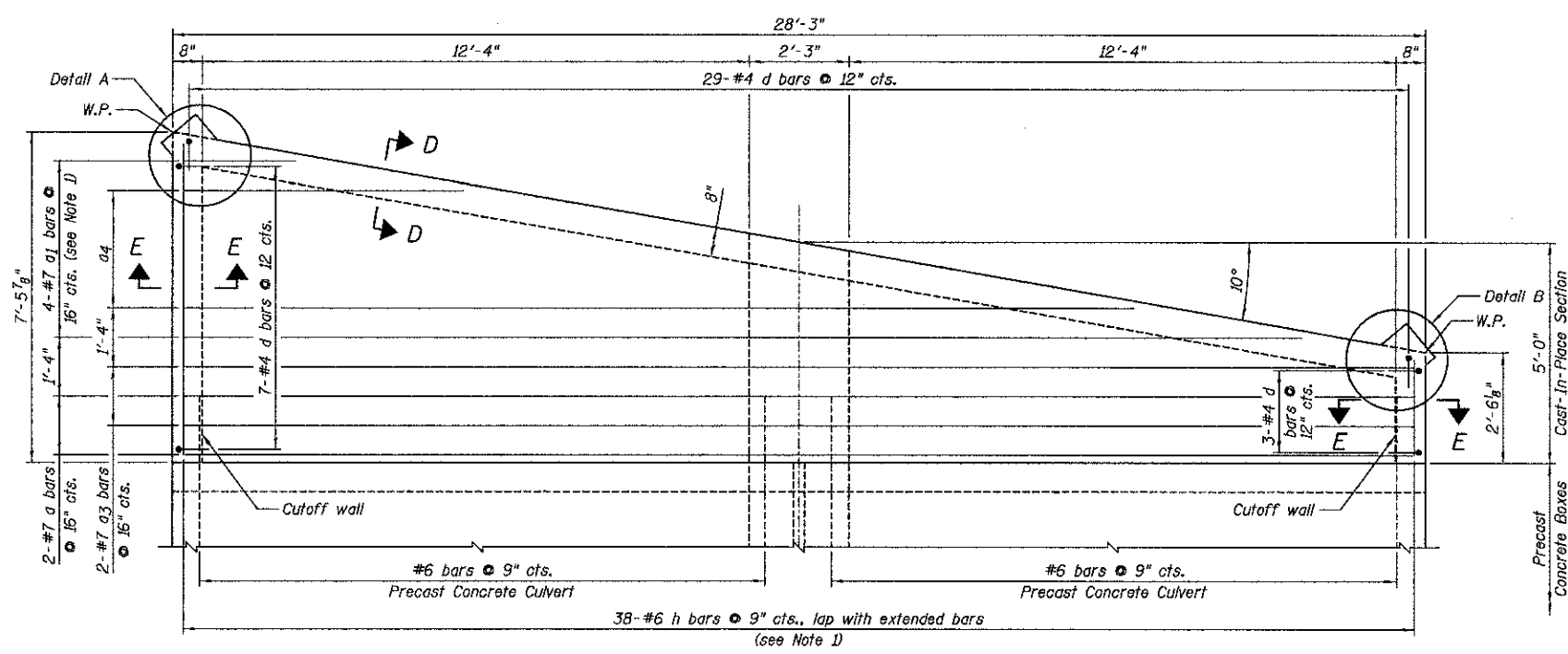
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE TOP SLAB PLAN AND SECTION
STRUCTURE NO. 038-2024

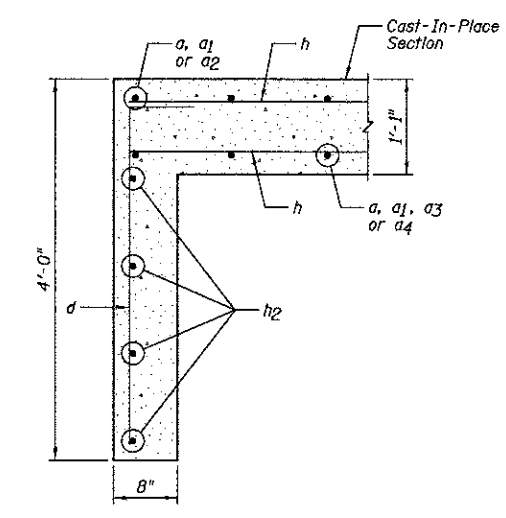
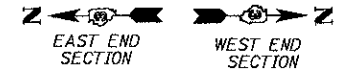
SHEET NO. B4 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	136 BR-3	IROQUOIS	28	16
				CONTRACT NO. 66971

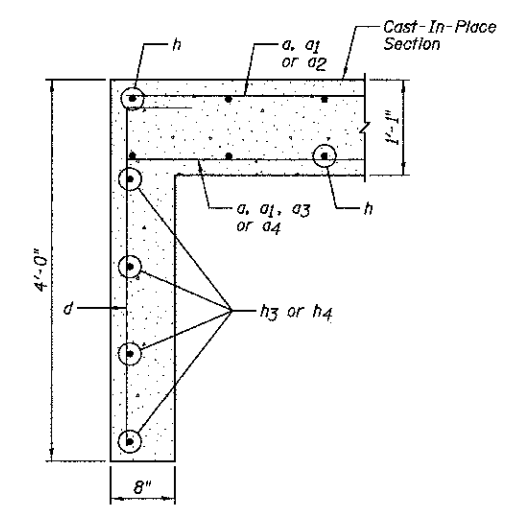
ILLINOIS FED. AID PROJECT



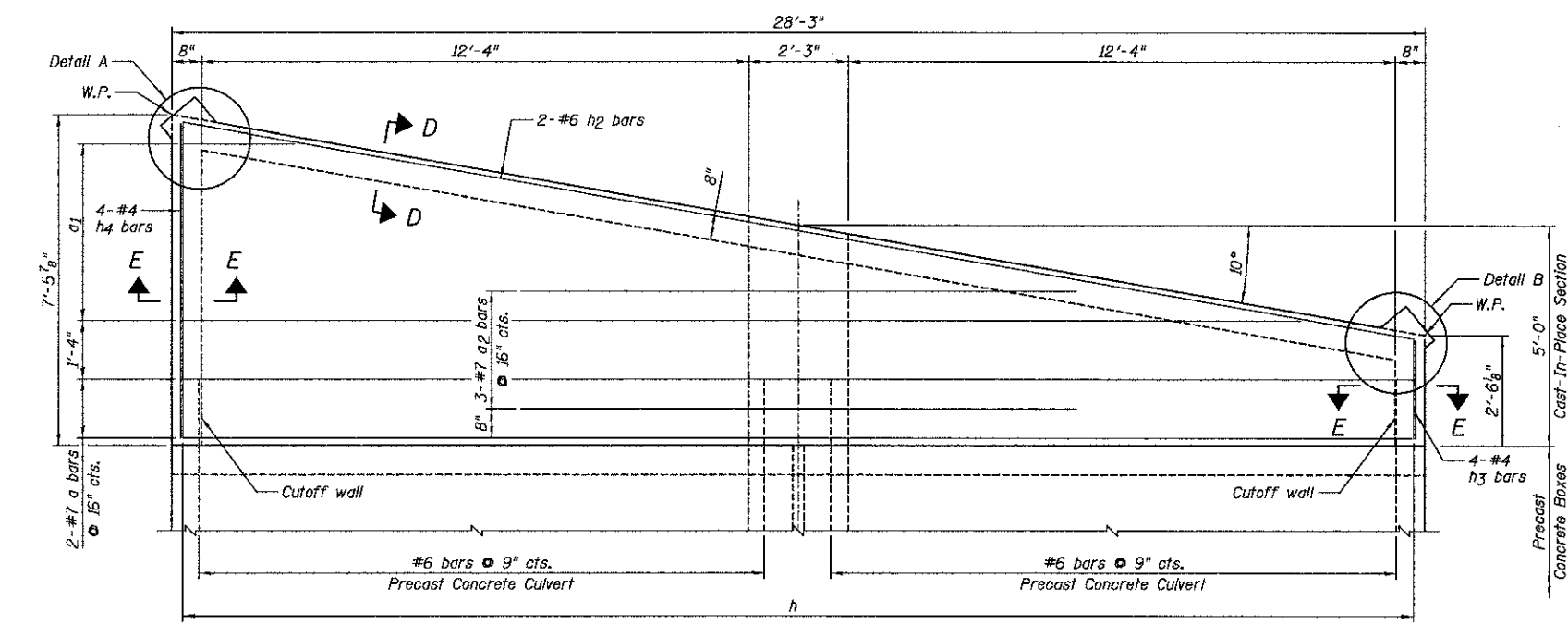
TOP MAT OF REINFORCEMENT PLAN



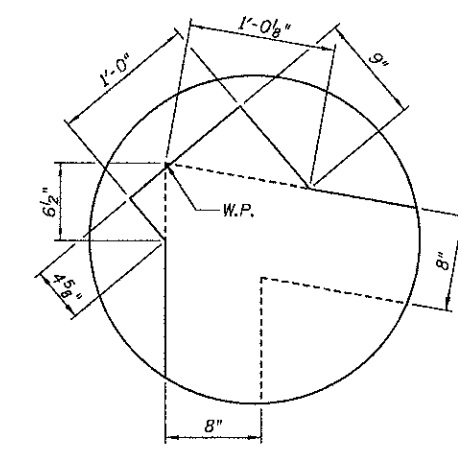
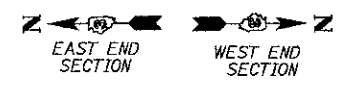
SECTION D-D



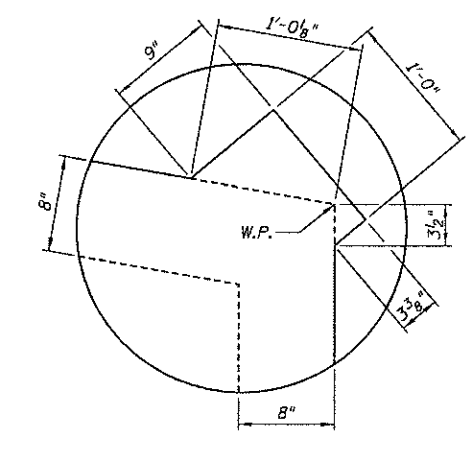
SECTION E-E



BOTTOM MAT OF REINFORCEMENT PLAN



DETAIL A



DETAIL B

NOTES:

- 1.) Order a1 and h bars full length, cut according to Bar Cutting Diagram on Sheet B3. Use remainder of bars in bottom mat.
- 2.) For Bill of Material, see Sheet B3.
- 3.) W.P. denotes Working Point.

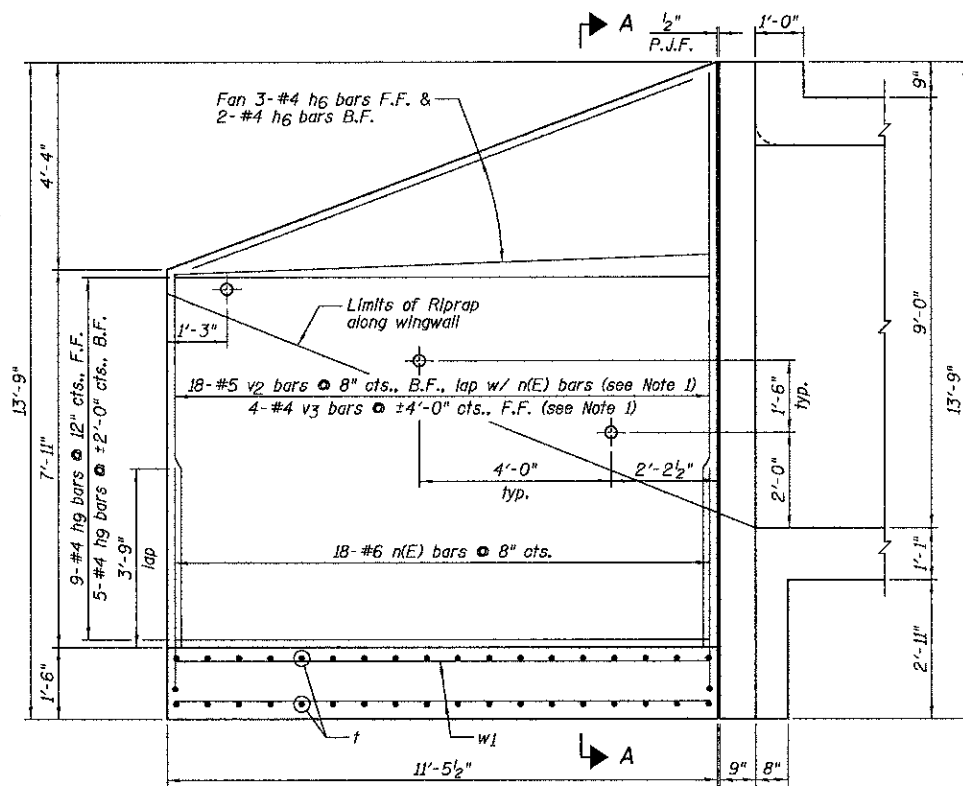
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GROUP, INC.
2709 McOraw Drive
Bloomington, Illinois 61704
309/853-8435, 309/863-1371 fax

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DATE - 07-27-11	

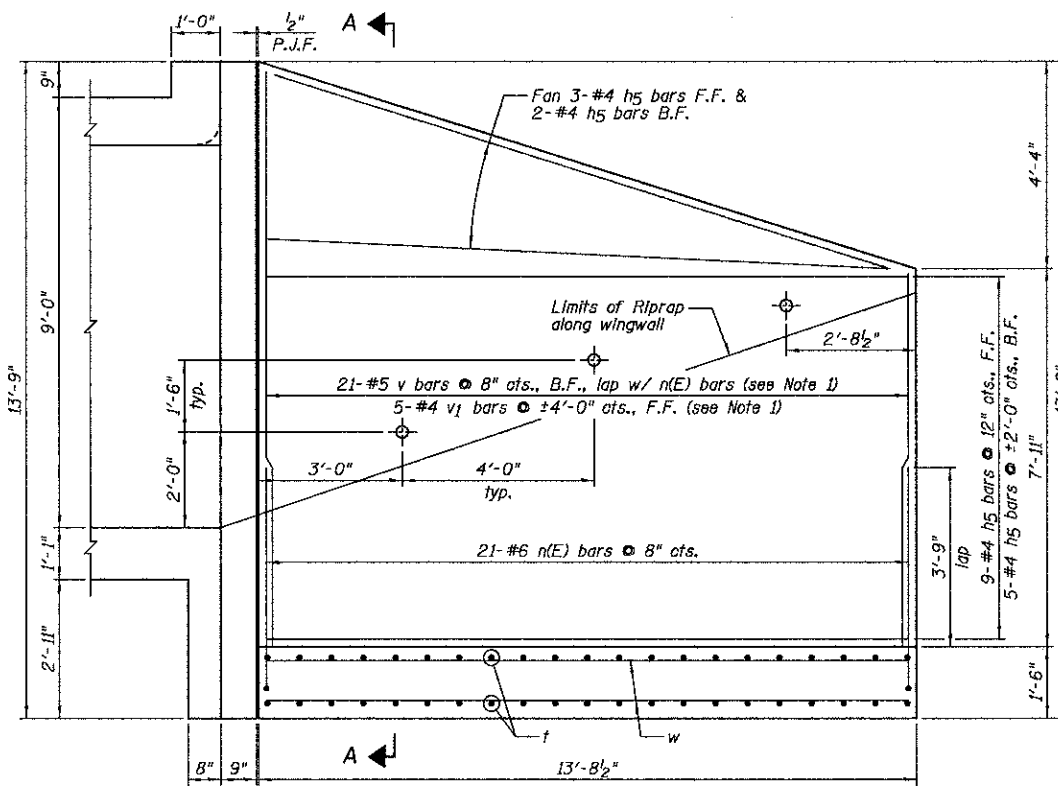
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE BOTTOM SLAB PLAN AND SECTION
STRUCTURE NO. 038-2024
SHEET NO. B5 OF 10 SHEETS

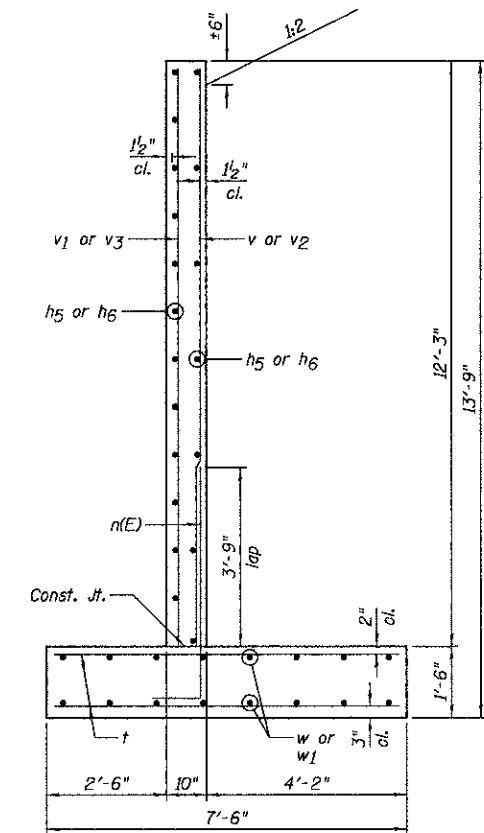
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	138 BR-3	IRROQUOIS	28	17
				CONTRACT NO. 66971
ILLINOIS FED. AID PROJECT				



NORTHWEST AND SOUTHEAST WINGWALL ELEVATION

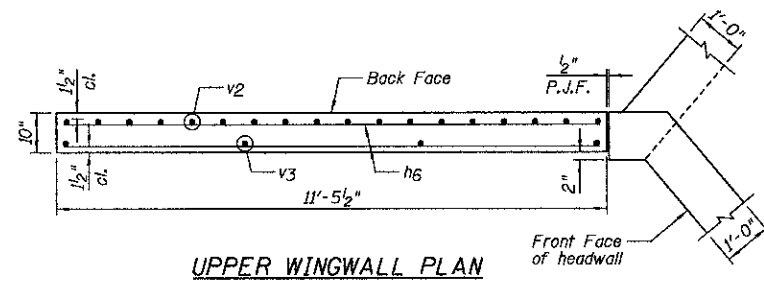


NORTHEAST AND SOUTHWEST WINGWALL ELEVATION

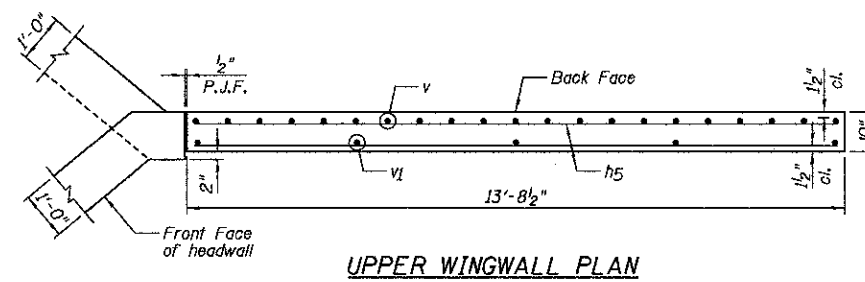


SECTION A-A

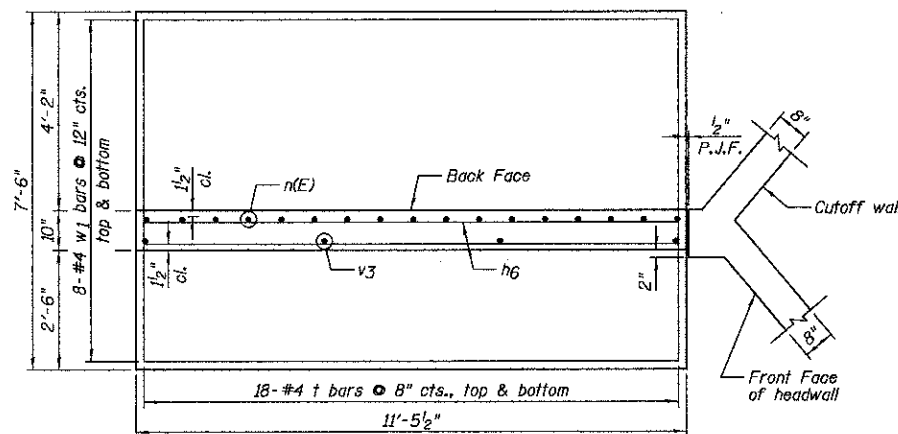
(Calc. max. Soil Pressure 2259 psf)



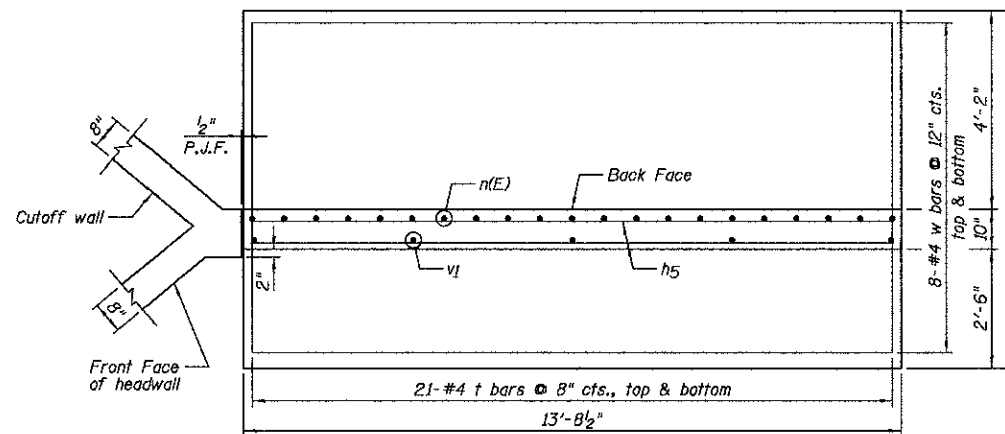
UPPER WINGWALL PLAN



UPPER WINGWALL PLAN



LOWER WINGWALL PLAN



LOWER WINGWALL PLAN

NOTES:

- 1.) Order v, v1, v2 and v3 bars full length, cut according to Bar Cutting Diagram on Sheet B3. Use remainder of bars in opposite wingwall.
- 2.) For Bill of Material, see Sheet B3.
- 3.) F.F. denotes Front Face, and B.F. denotes Back Face.
- 4.) For wingwall details with headwall see Sheet B3.



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 10/23/06

ROUTE SBI-48 (US45-52) DESCRIPTION US 45-52 over drainage ditch LOGGED BY Larry Myers
SECTION 138-B LOCATION NW 1/4, SEC. 17, TWP. 29N, RNG. 13W, 2nd PM
COUNTY Iroquois DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	Station	DEPTH	LOG	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	DEPTH	LOG	UCS	MOIST
038-0169	412+24	ft	(ft)	(#)	(%)	ft	ft	ft	(ft)	(#)	(%)
						625.75		14		>4.5	15.9
								14		P	
BORING NO. #1: SE Quad: S Abut	Station 412+63	Offset 19.00R ft				Groundwater Elev.: First Encounter 611.9 ft ∇ Upon Completion 612.4 ft ∇					
						629.37					
								3			
								6		>4.5	23.5
								9		P	
						627.37					
								3			
								14		>4.5	12.2
								24		P	
								7			
								14		>4.5	14.5
								17		P	
						622.37					
								15			
								7			
								10		8.0	17.8
								15		S	
						622.37					
								6			
								7		4.7	17.0
								10		S	
						619.87					
								3			
								5		3.5	19.2
								7		S	
								3			
								5		3.9	19.0
								8		S	
						614.87					
								4			
								7		5.4	16.6
								11		S	
						611.87 ∇					
								7			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T205)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 2

Date 10/23/06

ROUTE SBI-49 (US45-52) DESCRIPTION US 45-52 over drainage ditch LOGGED BY Larry Myers
SECTION 138-B LOCATION NW 1/4, SEC. 17, TWP. 29N, RNG. 13W, 2nd PM
COUNTY Iroquois DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	Station	DEPTH	LOG	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	DEPTH	LOG	UCS	MOIST
038-0169	412+24	ft	(ft)	(#)	(%)	ft	ft	ft	(ft)	(#)	(%)
						625.75		31		>4.5	16.5
								115		P	
BORING NO. #1: SE Quad: S Abut	Station 412+63	Offset 19.00R ft				Groundwater Elev.: First Encounter 611.9 ft ∇ Upon Completion 612.4 ft ∇					
						609.37					
								75			
								49			
								65		8.5	
								100/5			
								80			
								50			
						600.87					
								80		100/5	9.4
								30			
								100/4		5.8	11.5
								30			
								61		>4.5	14.0
								22		P	
								17			
								27		>4.5	13.4
								31		P	
						611.87 ∇					
								31			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T205)
BBS, from 137 (Rev. 8-99)



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DRAWN - DJM/JWK	REVISED
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DATE - 07-27-11	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

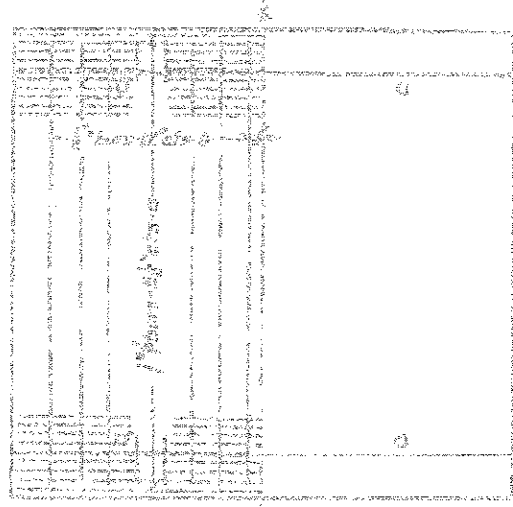
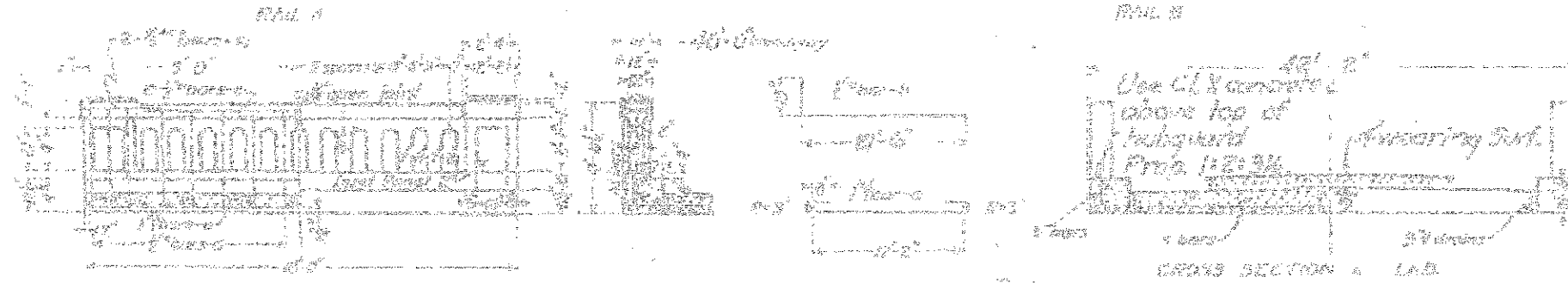
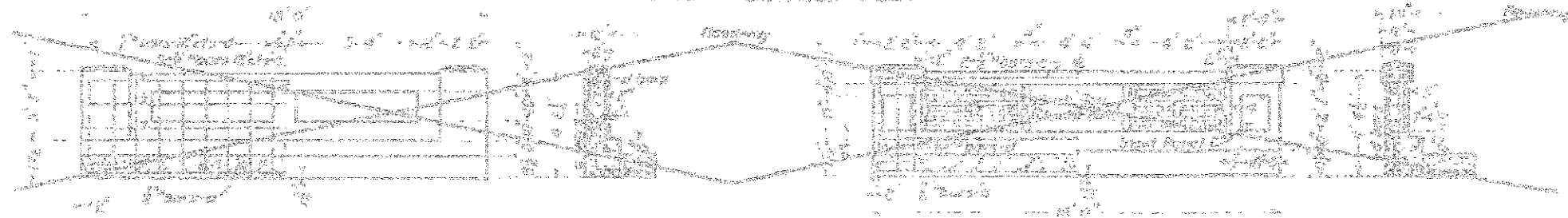
SOIL BORING LOGS
STRUCTURE NO. 038-2024

SHEET NO. 87 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	138 BR-3	IROQUOIS	28	19
CONTRACT NO. 66971			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS
REINFORCED CONCRETE SLAB
 SPAN - SIXTEEN FEET

PROJECT NO.	COUNTY	SECTION	SHEET NO.
49	IROQUOIS	138 BR-3	41



BILL OF MATERIAL

	WESTERLY	EASTERLY	WESTERLY	EASTERLY	WESTERLY	EASTERLY
RAIL A
RAIL B
RAIL C

DESIGNED BY: [Signature]
 CHECKED BY: [Signature]
 DRAWN BY: [Signature]
 DATE: 07-27-11

S.B.I. ROUTE 49 - SECTION 138-B
 IROQUOIS COUNTY
 STA. 412+24

FOR INFORMATIONAL
 USE ONLY

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 GROUP, INC.
 2708 McGraw Drive
 Bloomington, Illinois 61704
 309.663-4435, 309.663-1571 fax

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
 STRUCTURE NO. 038-2024
 SHEET NO. 09 OF 10 SHEETS

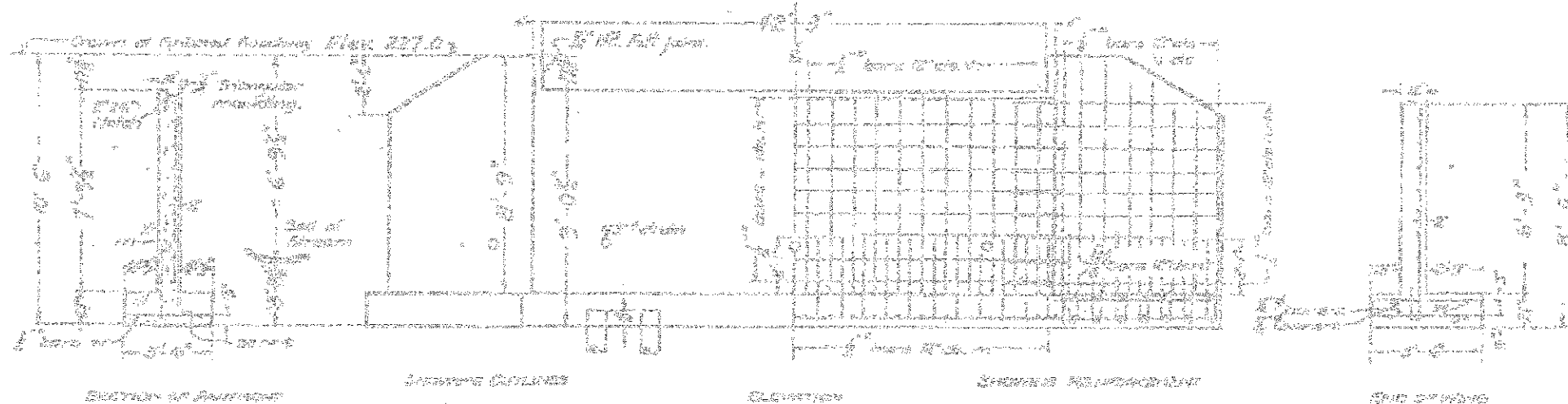
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	138 BR-3	IROQUOIS	20	21
CONTRACT NO. 66971				
ILLINOIS FED. AID PROJECT				

D.M. 1/4 W. to bridge right
 sta. 461.00
 Elevation: 225.60
 Existing Structure - I beam span left.
 Rdy. 12 ft. To be removed by bridge contractor.

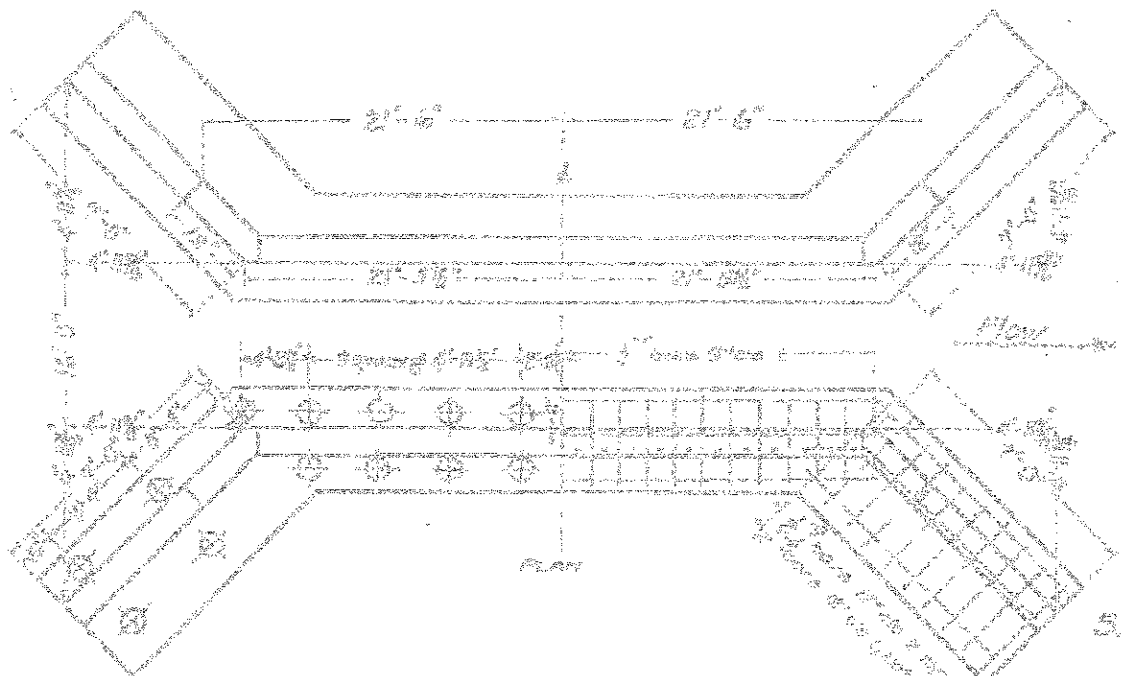
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

ROUTE NO.	COUNTY	SEC.	SHEETS	TOTAL
49	IROQUOIS	138B	47	45

REABUTMENTS FOR SLAB BRIDGE
 HEIGHT OVER ALL 10 FEET 6 INCHES



Class A concrete shall be used above top of footing. Reinforcement shall be all reinforcing steel shall be securely wired in place before concrete is poured.
 Class B concrete using S.A. aggregate shall be used for finishing. Proportion 1:2:3.5.
 10 Ton wire pile, 10" butt 8" tip sz required. Net Length 700 lin. ft.



CALL OF PILING

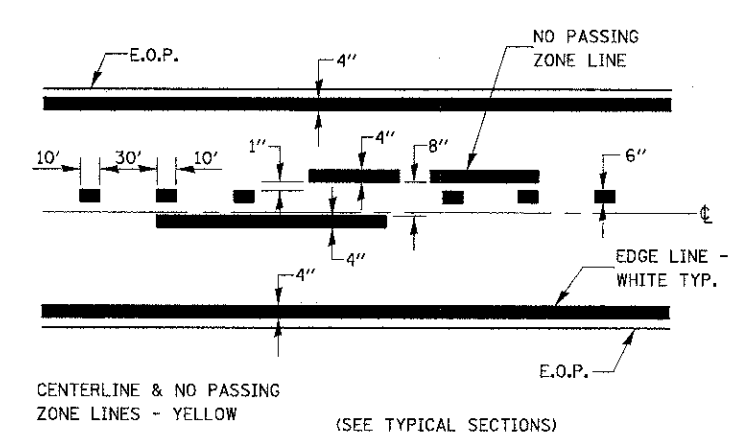
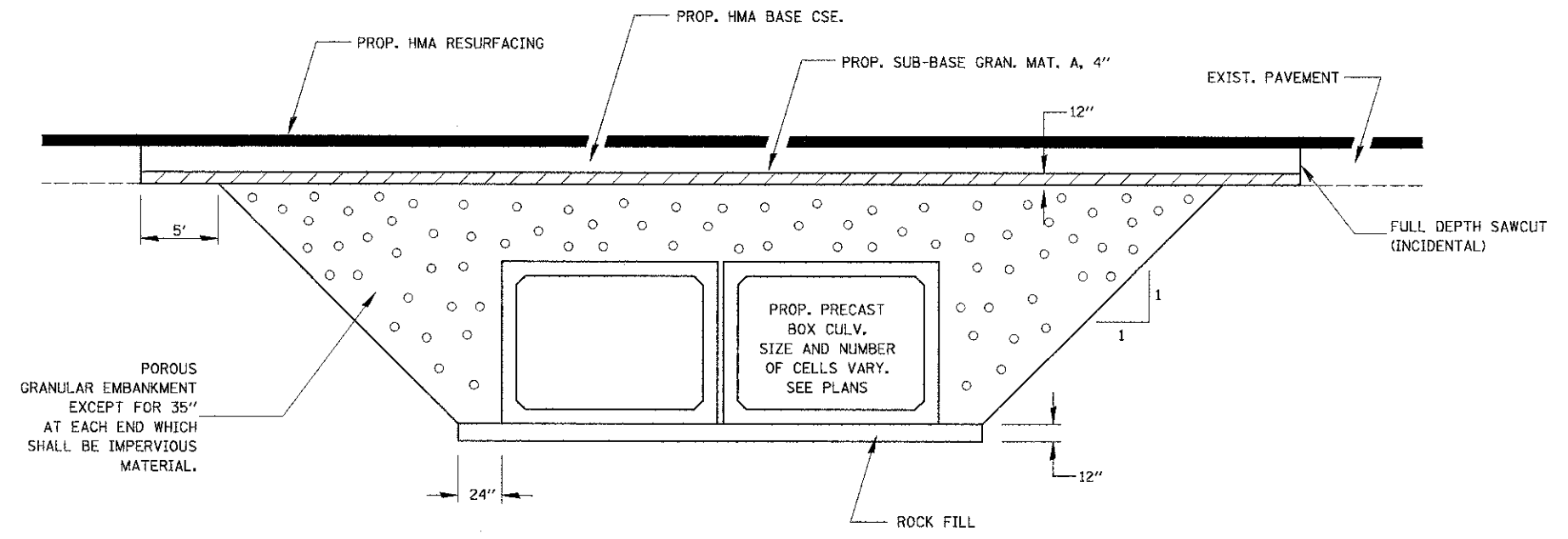
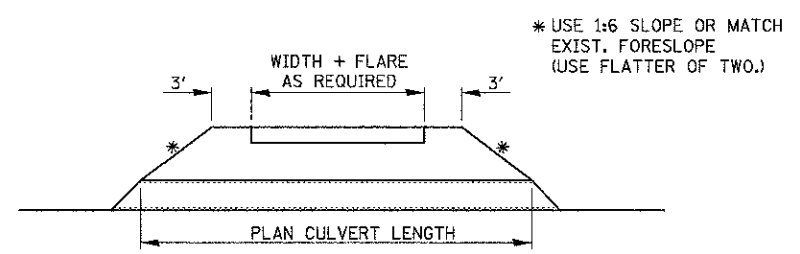
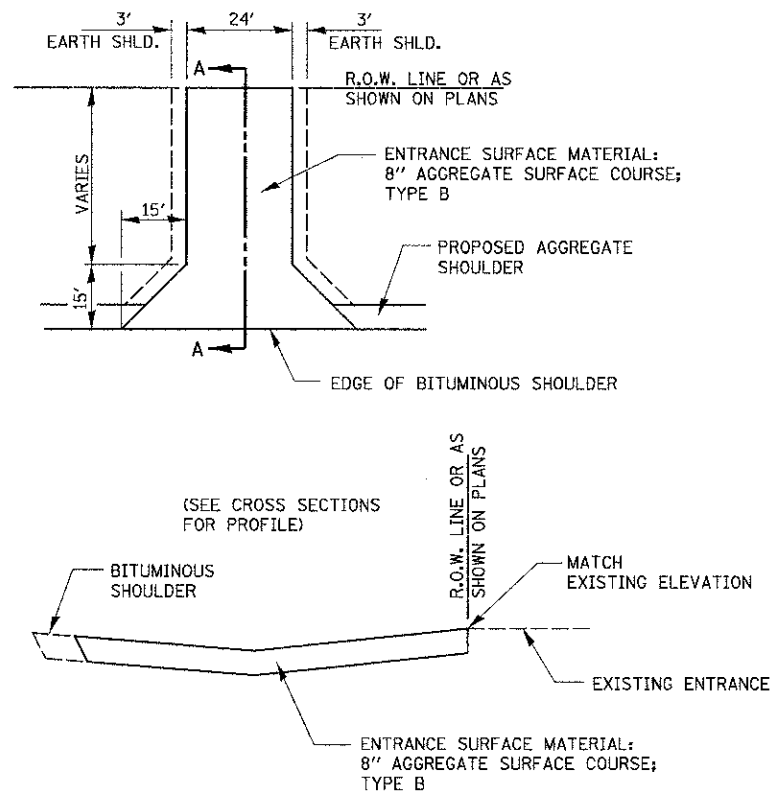
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97	10"	700
98	10"	700
99	10"	700
100	10"	700

DESIGNED	DKS
CHECKED	SDH
DRAWN	DJM/JWK
CHECKED	MSW

[Handwritten signatures and dates]

S.B.I. ROUTE 49 - SEC. 138-B
 IROQUOIS COUNTY
 STA. 412 + 24

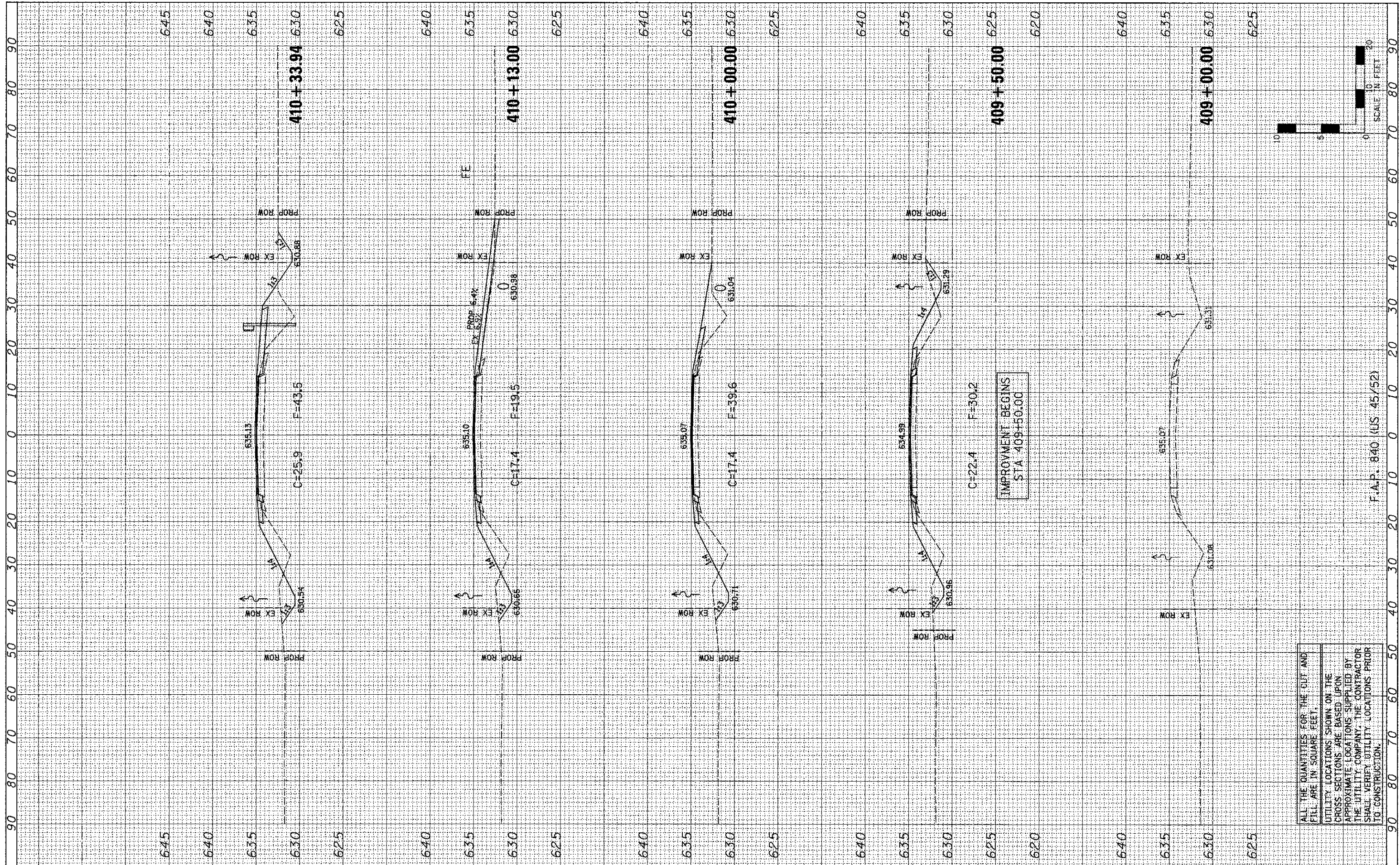
FOR INFORMATIONAL
 USE ONLY



FILE NAME =	USER NAME = #USER*	DESIGNED - JML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAILS				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILEL*		DRAWN - JJO/DJM	REVISED -		840	138 BR-3	IROQUOIS	28	24				
		CHECKED - MSW	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 66971				
		DATE - 07-27-11	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

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

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



ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.
 UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE LOCATIONS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS PRIOR TO CONSTRUCTION.

F.A.P. 840 (US 45/52)



FILE NAME =	USER NAME = #USER#
#FILE#	
	DESIGNED - JML
	DRAWN - JJO
	CHECKED - MSW
	DATE - 07-27-11
	REVISED -
	REVISED -
	REVISED -
	REVISED -

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

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DRAWN - JJO	REVISED -
CHECKED - MSW	REVISED -
DATE - 07-27-11	REVISED -

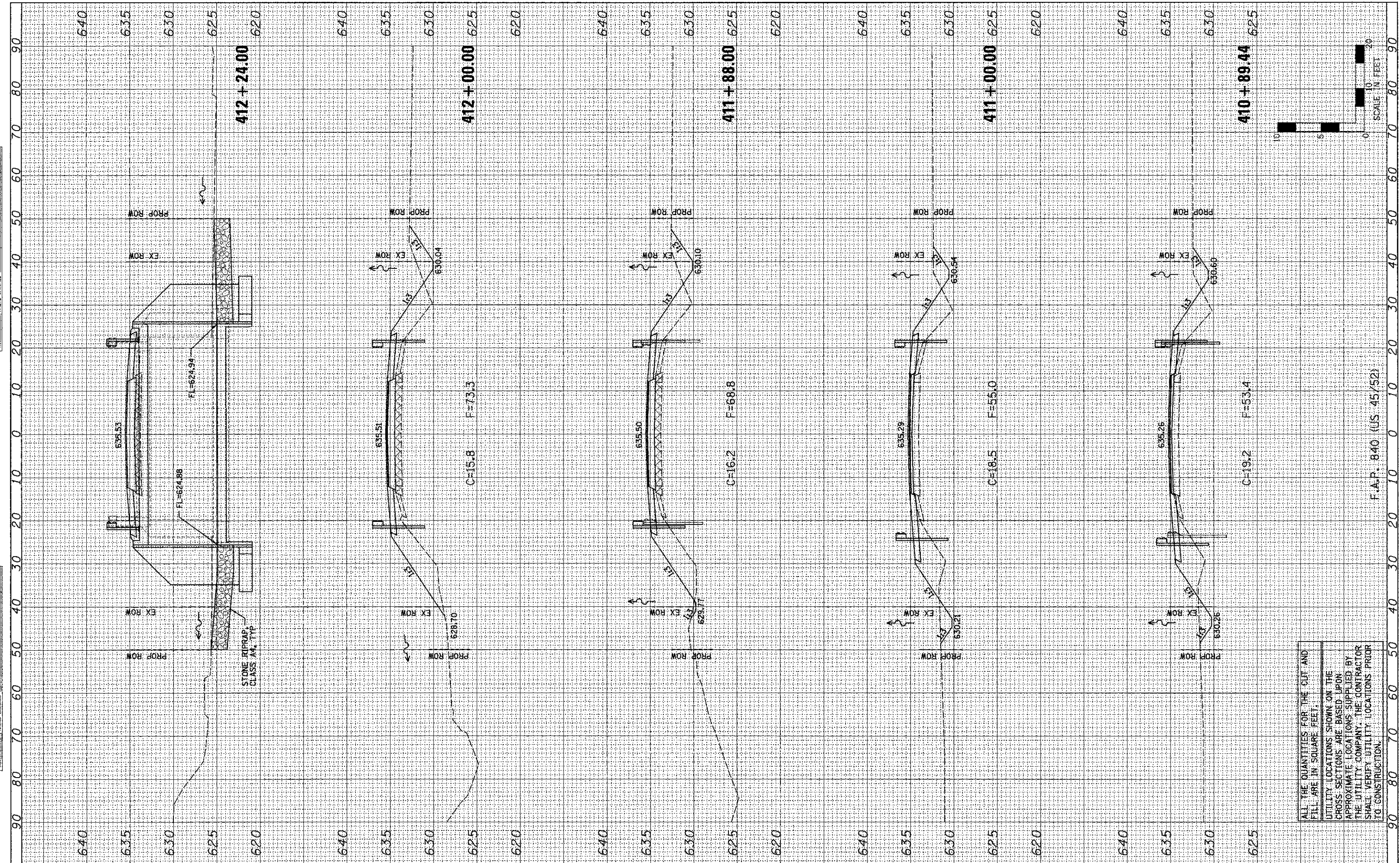
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1"=10'	SHEET NO. OF SHEETS	STA. 409+00.00 TO STA. 410+33.94
CROSS SECTIONS		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	138 BR-3	IROQUOIS	28	25
CONTRACT NO. 66971				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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



FILE NAME =
#FILEL\$

USER NAME = #USER#
DESIGNED - JML
DRAWN - JJO
CHECKED - MSW
DATE - 07-27-11

REVISIONS
REVISIONS
REVISIONS
REVISIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: 1"=10'
SHEET NO. OF SHEETS STA. 410+89.44 TO STA. 412+24.00

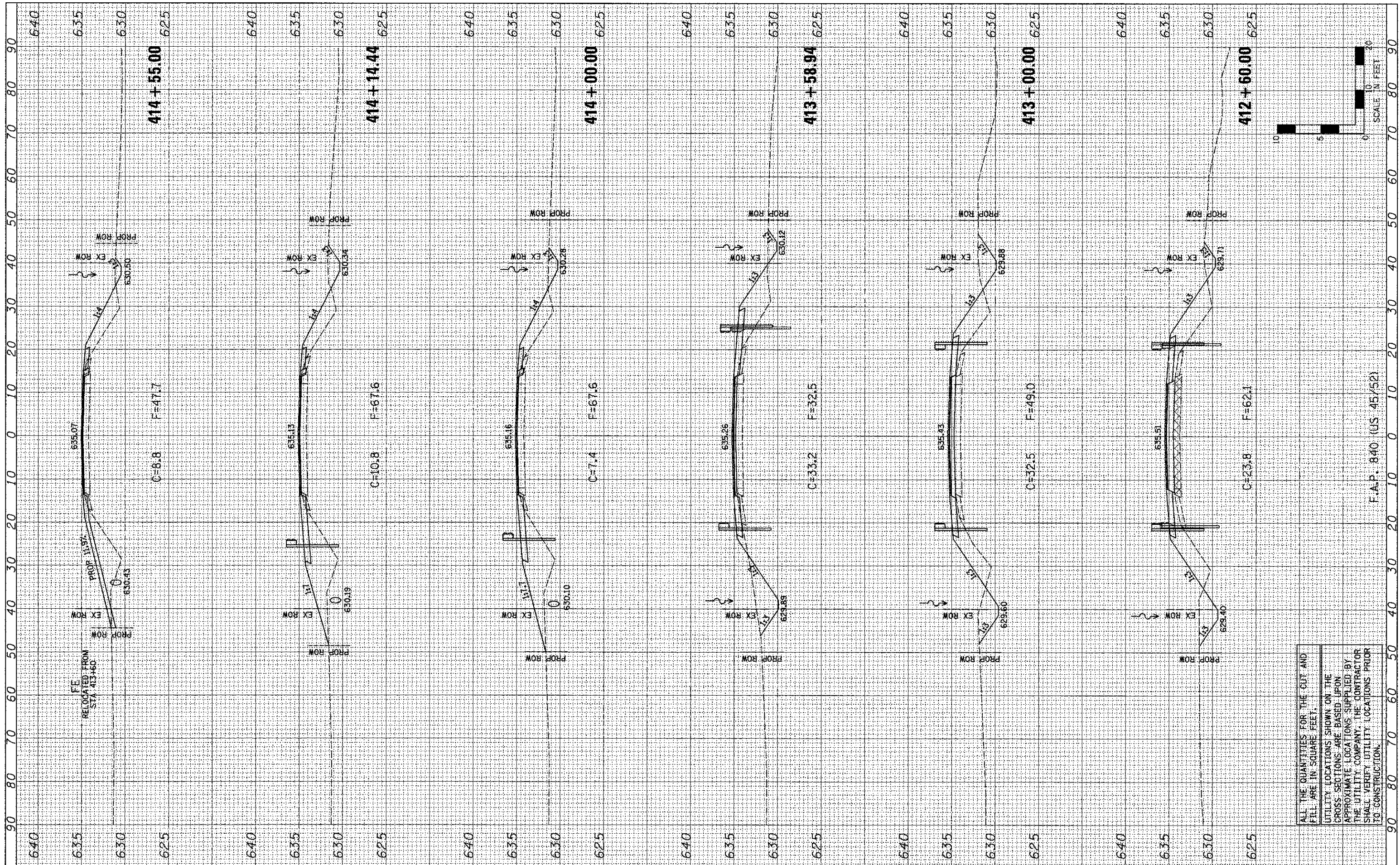
CROSS SECTIONS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
840	138 BR-3	TROQUOIS	28	26
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 66971				

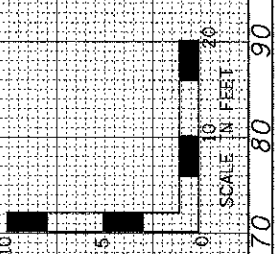
ALL THE QUANTITIES FOR THE CUT AND FILL ARE IN SQUARE FEET.
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FINAL SURVEY	BY	DATE
SURVEYED		
PLotted		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLotted		
NOTE BOOK		
NO.		



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FILE NAME =	USER NAME = #USER#
#FILE#	DESIGNED - JML
	DRAWN - JJO
	CHECKED - MSW
	DATE - 07-27-11
	REVISOR
	REVISION
	REVISION
	REVISION

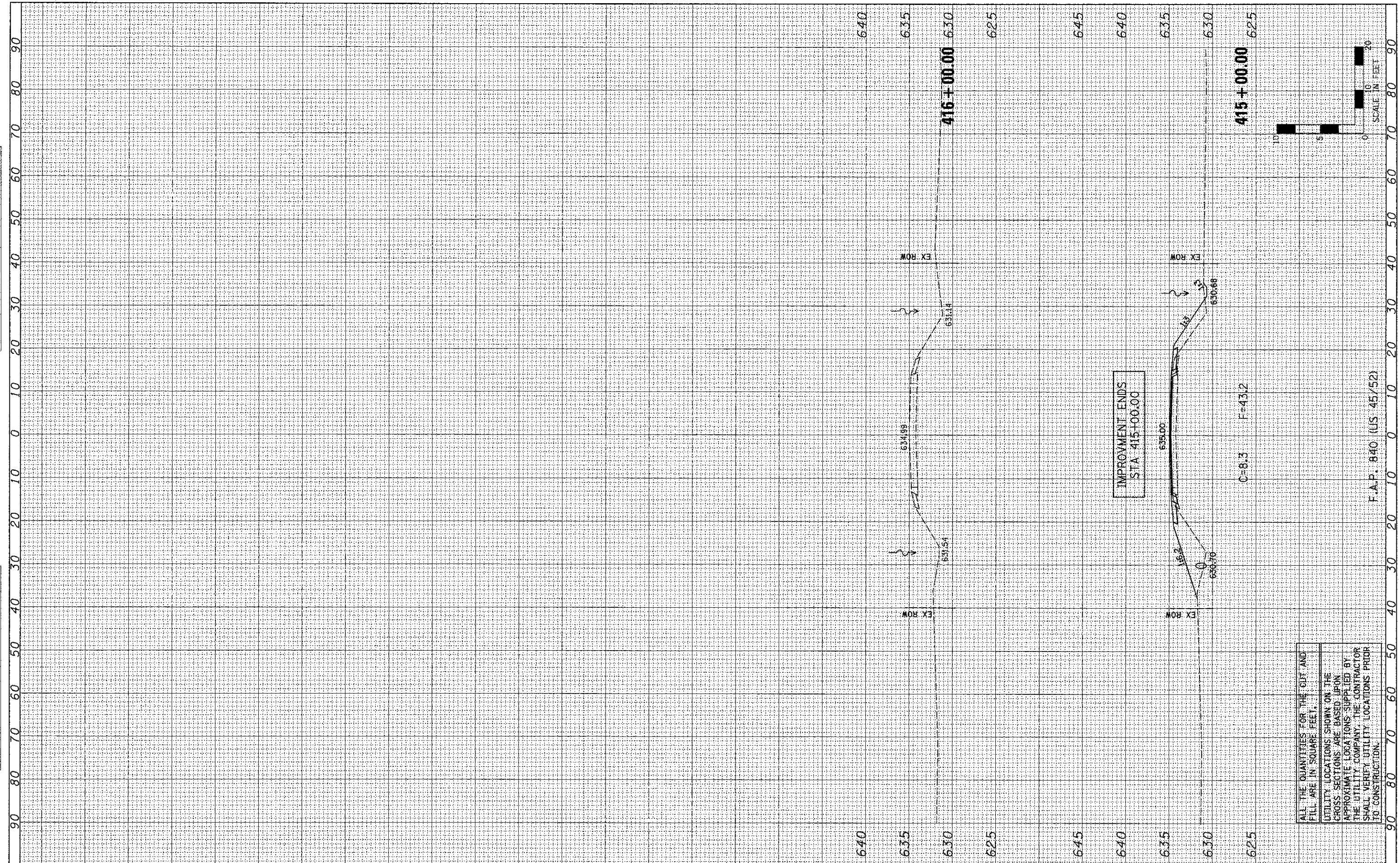
DESIGNED - JML	REVISOR
DRAWN - JJO	REVISION
CHECKED - MSW	REVISION
DATE - 07-27-11	REVISION

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS			
SCALE: 1"=10'	SHEET NO. OF SHEETS	STA. 412+60.00 TO STA. 414+55.00	F.A.P. RTE. 840
			SECTION 138 BR-3
			COUNTY IROQUOIS
			TOTAL SHEETS 28
			SHEET NO. 27
			CONTRACT NO. 66971
			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

FINAL SURVEY	BY	DATE
NOTE BOOK		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
AREAS CHECKED		



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FILE NAME =	USER NAME = #USER#	DESIGNED - JML	REVISED -
#FILE#		DRAWN - JJO	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - MSW	REVISED -
	PLOT DATE = #DATE#	DATE - 07-27-11	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS	
SCALE: 1"=10'	SHEET NO. OF SHEETS STA. 415+00.00 TO STA. 416+00.00

F.A.P. RTE. 840	SECTION 138 BR-3	COUNTY IROQUOIS	TOTAL SHEETS 28	SHEET NO. 28
CONTRACT NO. 66971				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				