

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

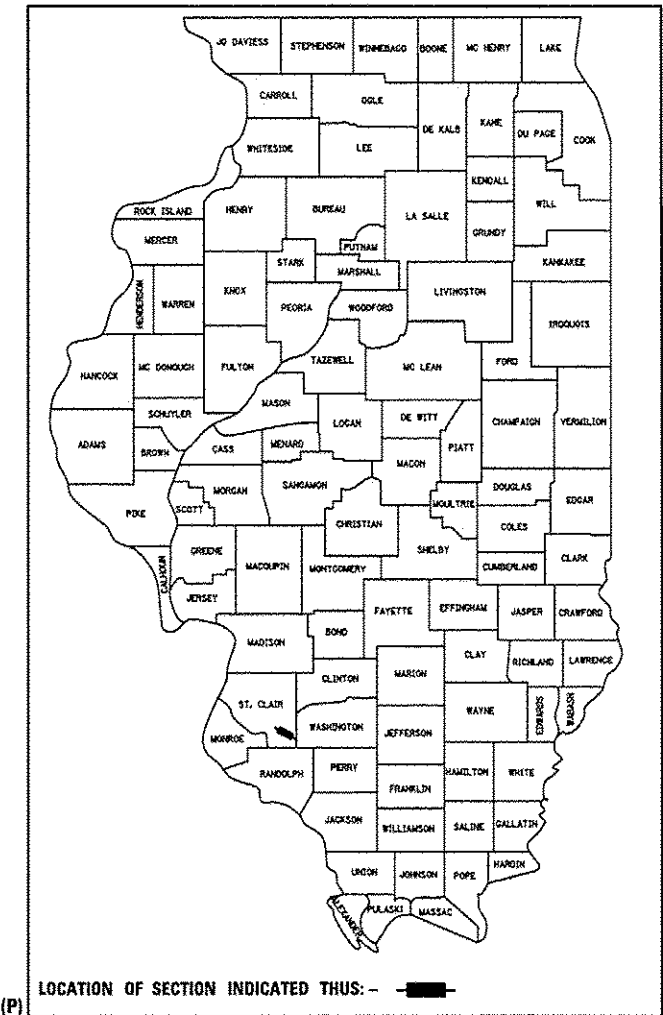
FAP ROUTE 103 (IL 13)
SECTION 23BR-1
PROJECT ACF-0103(074)
STRUCTURE REPLACEMENT
ST. CLAIR COUNTY

C-98-114-10

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	23BR-1	ST. CLAIR	38	1
		ILLINOIS	CONTRACT NO. 76E21	

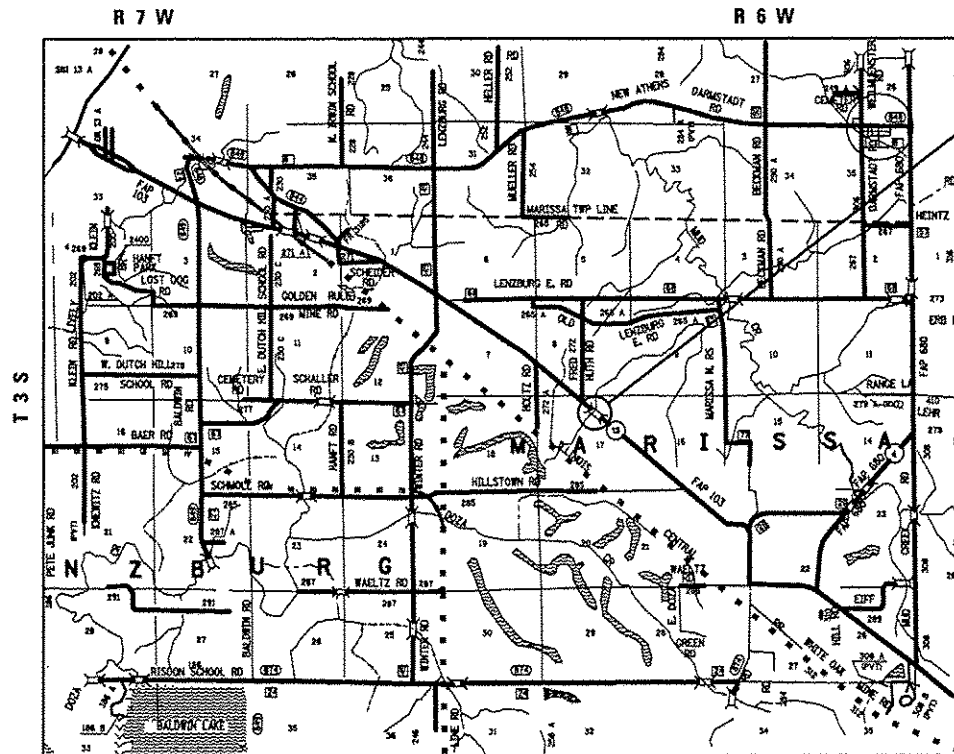
*38+1 = 39

D-98-090-10

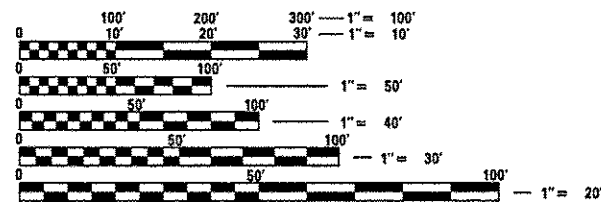
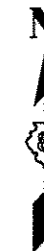


LOCATION OF SECTION INDICATED THUS: —■—

FOR INDEX OF SHEETS, SEE SHEET NO. 2



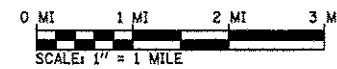
PROJECT LOCATION
STATION 674+45
SINGLE SPAN CHANNEL BEAM
BRIDGE TO BE REPLACED W/A
DOUBLE 10'X7' CONCRETE BOX
CULVERT
SN 082-0283 (E), SN 082-2046 (P)
60'-0" OUT TO OUT HEADWALLS
LATITUDE = 38.27642
LONGITUDE = 89.78458



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

LOCATION MAP



GROSS LENGTH = 20 FT. = 0.004 MILE
NET LENGTH = 20 FT. = 0.004 MILE

ADT: (2014) 3900 (ESTIMATED) (2034) 4750 (ESTIMATED) SU=6.4% MU=3.6%
DIRECTIONAL DISTRIBUTION: EB=50% WB=50%

PROJECT ENGINEER: PATTI LeBEAU (618) 346-3179
PROJECT MANAGER: BILLIE OWEN (618) 346-3209

CONTRACT NO. 76E21

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED August 15, 2013

John D. Baranzoni, P.E.
DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER
October 4, 2013
acting ENGINEER OF DESIGN AND ENVIRONMENT

Omer Osman, P.E.
October 4, 2013
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
 - *AMEREN ILLINOIS *VILLAGE OF LENZBURG *CLEARWAVE COMMUNICATIONS *EGYPTIAN TELEPHONE COOP ASSN
 - *FRONTIER NORTH, INC. *ZAYO FIBER SOLUTIONS *KASKASKIA WATER DISTRICT *NEW WAVE COMMUNICATIONS

MEMBERS OF J.U.L.I.E. (800) 892-0123 OR 811 ARE INDICATED BY AN *. NON- J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
2. THE THICKNESS OF HOT- MIX ASPHALT SURFACE MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
4. ANY EXCAVATION OR DROP- OFF OF MORE THAN 3" AT THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES AND APPROPRIATE LIGHTING.
5. THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
6. IF THE CONTRACTOR, FOR HIS CONSTRUCTION ACTIVITY, REMOVES TREES WITHIN THE RIGHT-OF-WAY LIMITS WHICH ARE NOT DESIGNATED ON THE PLANS FOR REMOVAL, I.E. IN ORDER TO GAIN ACCESS TO THE PROJECT SITE; IT WILL BE HIS RESPONSIBILITY TO REPLACE THE TREES AT A 1:1 RATIO. THE TREES WILL BE REPLACED WITH A 1 GALLON NATIVE ILLINOIS TREE SPECIES AND SHALL BE APPROVED BY THE ENGINEER. THE TREE REMOVAL AND TREE REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
7. ALL EXISTING AND PROPOSED RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY, THE PLAN OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.
8. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING AND/OR I.T.S. UTILITIES WITHIN THE PROJECT LIMITS. IF HIGHWAY LIGHTING AND/OR I.T.S. EXISTS WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 803.04 OF THE STANDARD SPECIFICATIONS. IF "LOCATING UNDERGROUND CABLE" IS NOT INCLUDED AS PART OF THE PLANS, THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
9. OVERNIGHT DROP- OFFS WILL NOT BE PERMITTED NEXT TO AN OPEN LANE OF TRAFFIC.
10. THE CONTRACTOR SHALL PROVIDE POSITIVE AND ADEQUATE DRAINAGE AT ALL LOCATIONS AT ALL TIMES. THIS MAY INCLUDE, BUT IS NOT LIMITED TO, REPLACEMENT OR RECONSTRUCTION OF EXISTING DRAINAGE STRUCTURES THAT HAVE BEEN DAMAGED OR REMOVED, RE GRADING, PLUGGING ABANDONED PIPES, OR OTHER ACTIVITIES REQUIRED BY THE ENGINEER.
11. ACCESS SHALL BE MAINTAINED TO ALL PROPERTIES UNLESS OTHERWISE NOTED IN THE PLANS.
12. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB- CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORK FORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION- RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSE WORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL- TRAINED AND READY TO BECOME PRODUCTIVE ENTRY- LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORK FORCE AND TRAINEE GOALS
13. ALL ELEVATIONS REFER TO THE USGS MEAN SEA LEVEL DATUM.
14. ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDED AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE
15. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT EACH END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS, AND WILL BE CONSIDERED INCLUDED IN THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE IN COLOR (48" X 48").
16. A QUANTITY OF 492 SQUARE YARDS OF STONE RIPRAP, CLASS A4 AND FILTER FABRIC HAS BEEN INCLUDED IN THE PLANS. THIS QUANTITY CONSISTS OF 356 SQUARE YARDS TO BE USED FOR THE STRUCTURE CONSTRUCTION AND 136 SQUARE YARDS FOR THE ROADWAY CONSTRUCTION.
17. THIS CONTRACT CONTAINS A TOTAL OF 120 LINEAR FEET OF STEEL BRIDGE RAIL REMOVAL WHICH IS INCLUDED IN STRUCTURE REMOVAL.
18. THE FOLLOWING APPLICATION RATES WERE USED TO CALCULATE QUANTITIES FOR THIS PROJECT:
 - NITROGEN/PHOSPHOROUS/POTASSIUM FERTILIZER NUTRIENTS - 90 LBS PER ACRE
 - MULCH, METHOD 1 - 5 APPLICATIONS
 - TEMPORARY EROSION CONTROL SEEDING - 12 APPLICATIONS

INDEX OF SHEETS

1	COVER SHEET
2	GEN. NOTES, STDS., INDEX OF SHEETS
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10	PLAN AND PROFILE
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HIGHWAY STANDARDS

000001-06	701321-13
001001-02	701326-04
001006	701901-02
515001-03	704001-07
635001-01	720011-01
666001-01	780001-03
701201-04	

COMMITMENTS

NONE

PERTINENT INFORMATION

1. THE EXISTING WEIR WALL SHALL NOT BE DISTURBED.

MIXTURE REQUIREMENT CHART

MIXTURE USE	FD SURFACE	FD BINDER	BASE COURSE
AC/PG	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0 FG	IL 19.0 FG
FRICITION AGG	MIXTURE "D"	MIXTURE "B"	MIXTURE "B"

FILE NAME :	USER NAME : *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, LIST OF IDOT HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -			103	238R-1	ST. CLAIR	38	2	
	PLOT SCALE : *SCALE*	CHECKED -	REVISED -			CONTRACT NO. 76E21					
	PLOT DATE : *DATE*	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.				

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0040	
				20% STATE	80% FEDERAL
20200100	EARTH EXCAVATION	CU YD	230	230	
20400800	FURNISHED EXCAVATION	CU YD	50	50	
20700110	POROUS GRANULAR EMBANKMENT	TON	90	90	
* 25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	18	18	
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	18	18	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	18	18	
* 25100105	MULCH, METHOD 1	ACRE	1.25	1.25	
* 25100115	MULCH, METHOD 2	ACRE	0.25	0.25	
* 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	240	240	
28100107	STONE RIPRAP, CLASS A4	SQ YD	492	492	
28200200	FILTER FABRIC	SQ YD	492	492	
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	40	40	
35501324	HOT-MIX ASPHALT BASE COURSE, 10"	SQ YD	532	532	

* SPECIALTY ITEM

FILE NAME *	USER NAME * #USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN -	REVISED -					103	23BR-1	ST. CLAIR	38	3
		CHECKED -	REVISED -		SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.			CONTRACT NO. 76E21				
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0040					
				20% STATE	80% FEDERAL				
40701921	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12"	SQ YD	123	123					
44000100	PAVEMENT REMOVAL	SQ YD	74	74					
44004250	PAVED SHOULDER REMOVAL	SQ YD	188	188					
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1					
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	25810	25810					
50800515	BAR SPLICERS	EACH	97	97					
51500100	NAME PLATES	EACH	1	1					
54003000	CONCRETE BOX CULVERTS	CU YD	129.3	129.3					
63200310	GUARDRAIL REMOVAL	FOOT	502	502					
63500105	DELINEATORS	EACH	4	4					
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8	8					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8					
67100100	MOBILIZATION	L SUM	1	1					
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1					

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0040					
				20% STATE	80% FEDERAL				
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1					
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	21	21					
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1					
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6					
70300100	SHORT TERM PAVEMENT MARKING	FOOT	150	150					
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2253	2253					
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	801	801					
70400100	TEMPORARY CONCRETE BARRIER	FOOT	400	400					
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	375	375					
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2					
70600350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2					
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	2253	2253					
78300100	PAVEMENT MARKING REMOVAL	SQ FT	751	751					
X4404260	PAVED SHOULDER REMOVAL (SPECIAL)	SQ YD	54	54					

*SPECIALTY ITEM

EARTHWORK SCHEDULE					
STA	to STA	UNADJUSTED EXCAVATION (CU YD)	EXCAVATION ADJUSTED FOR 25% SHINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
672+50.00	to 673+00.00	5.6	4.2	0.6	3.6
673+00.00	to 673+50.00	12.2	9.2	3.3	5.9
673+50.00	to 674+00.00	41.3	31.0	18.9	12.1
674+00.00	to 674+27.00	41.9	31.4	58.7	-27.3
674+27.00	to 674+45.00	15.5	11.6	33.3	-21.7
674+45.00	to 674+63.00	25.2	18.9	30.5	-11.6
674+63.00	to 675+00.00	58.8	44.1	65.9	-21.8
675+00.00	to 675+50.00	14.5	10.9	5.9	5.0
675+50.00	to 676+00.00	10.0	7.5	3.3	4.2
676+00.00	to 676+50.00	5.1	3.8	1.8	2.0
TOTAL =		230.1	172.6	222.2	-49.6
ROUNDED TOTAL =		230.0	175	225	-50

SEEDING SCHEDULE																
STATION		SEEDING CLASS 2A ACRE		MULCH METHOD 2 ACRE		NITROGEN FERTILIZER NUTRIENT LBS		PHOSPHOROUS FERTILIZER NUTRIENT LBS		POTASSIUM FERTILIZER NUTRIENT LBS		TEMPORARY EROSION CONTROL SEEDING LBS		MULCH METHOD 1 ACRE		
		LT	RT	LT	RT	LT	RT	LT	RT	LT	RT	LT	RT	LT	RT	
672+50.0	TO 673+00.0	0.01	0.01	0.01	0.01	0.9	0.9	0.9	0.9	0.9	0.9	12.0	12.0	0.05	0.05	
673+00.0	TO 673+50.0	0.01	0.01	0.01	0.01	0.9	0.9	0.9	0.9	0.9	0.9	12.0	12.0	0.05	0.05	
673+50.0	TO 674+00.0	0.01	0.01	0.01	0.01	0.9	0.9	0.9	0.9	0.9	0.9	12.0	12.0	0.05	0.05	
674+00.0	TO 674+27.0	0.01	0.01	0.01	0.01	0.9	0.9	0.9	0.9	0.9	0.9	12.0	12.0	0.05	0.05	
674+27.0	TO 674+45.0	0.01	0.01	0.01	0.01	0.9	0.9	0.9	0.9	0.9	0.9	12.0	12.0	0.05	0.05	
674+45.0	TO 674+63.0	0.01	0.01	0.01	0.01	0.9	0.9	0.9	0.9	0.9	0.9	12.0	12.0	0.05	0.05	
674+63.0	TO 675+00.0	0.01	0.01	0.01	0.01	0.9	0.9	0.9	0.9	0.9	0.9	12.0	12.0	0.05	0.05	
675+00.0	TO 675+50.0	0.01	0.01	0.01	0.01	0.9	0.9	0.9	0.9	0.9	0.9	12.0	12.0	0.05	0.05	
675+50.0	TO 676+00.0	0.01	0.01	0.01	0.01	0.9	0.9	0.9	0.9	0.9	0.9	12.0	12.0	0.05	0.05	
676+00.0	TO 676+50.0	0.01	0.01	0.01	0.01	0.9	0.9	0.9	0.9	0.9	0.9	12.0	12.0	0.05	0.05	
SUB-TOTAL		0.20		0.20		18.0		18.0		18.0		240.0		0.50		
ROUNDED TOTAL		0.25		0.25		18		18		18		240		1		

NOTE:
 TEMPORARY EROSION CONTROL SEEDING IS CALCULATED USING 12 APPLICATIONS
 MULCH METHOD 1 IS CALCULATED USING 5 APPLICATIONS FOR EROSION CONTROL SEEDING

PAVEMENT MARKING SCHEDULE													
STATIONING			THERMOPLASTIC PAVEMENT MARKING LINE - 4"			TEMPORARY PAVEMENT MARKING LINE - 4"			PAYMENT MARKING REMOVAL SQ FT	WORK ZONE PAVEMENT MARKING REMOVAL SQ FT	SHORT TERM PAVEMENT MARKING		REMARKS
			YELLOW SKIP DASH FOOT	SOLID WHITE FOOT	SOLID YELLOW FOOT	YELLOW SKIP DASH FOOT	SOLID WHITE FOOT	SOLID YELLOW FOOT			YELLOW CENTERLINE FOOT	YELLOW SHLDR. DIAGONALS FOOT	
671+34	TO	676+00	117	932	466	117	932	466	505	547	47	80	NO PASS ZONE
676+00	TO	678+20	57	454	227	57	454	227	246	254	23	0	NO PASS ZONE
SUBTOTAL			174	1386	693	174	1386	693	751	801	70	80	
ROUNDED TOTAL				2253			2253		751	801	150		

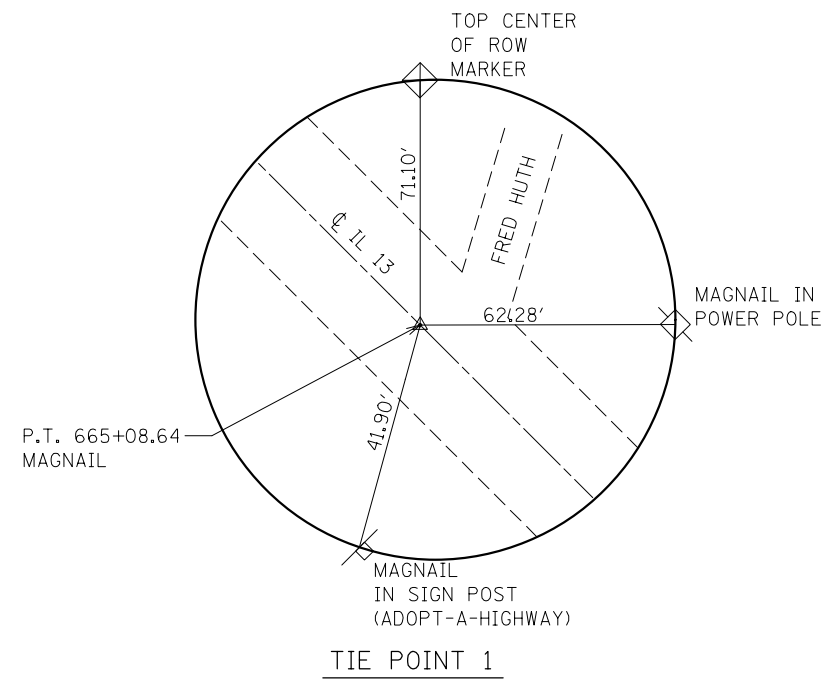
STATIONING			POROUS GRANULAR EMBANKMENT (TON)	SUBBASE GRANULAR MAT'L TYPE 9 (TON)
674+20	TO	674+35		19.7
674+35	TO	674+55	90.0	
674+55	TO	674+70		19.7
TOTAL			90.0	39.4
ROUNDED TOTAL			90.0	40.0

FURNISHING AND ERECTING RIGHT OF WAY MARKERS			
STATION	OFFSET	DIRECTION	QUANTITY
673+65.00	47.54	RT	1
674+15.00	62.00	RT	1
674+75.00	62.00	RT	1
675+25.00	47.64	RT	1
673+40.00	48.48	LT	1
673+90.00	62.00	LT	1
674+95.00	62.00	LT	1
675+45.00	48.35	LT	1
TOTAL			8

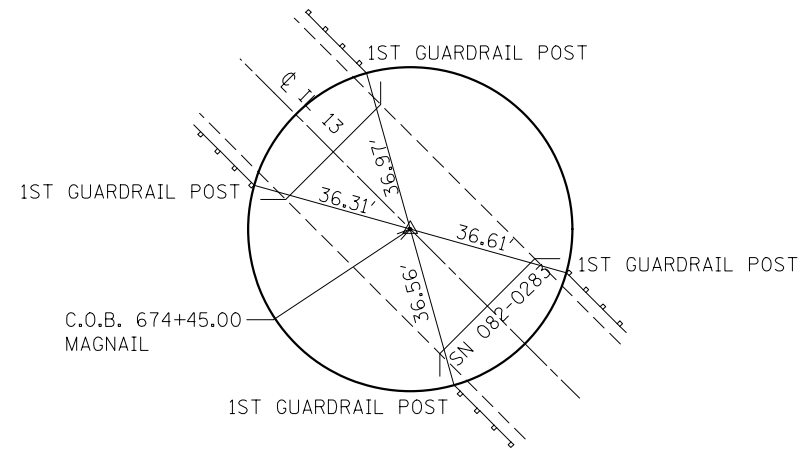
NOTE: THE RIGHT OF WAY MARKERS SHALL BE INSTALLED SO THAT THE BACK OF THE POST IS TWELVE INCHES (12") INSIDE THE RIGHT OF WAY BOUNDARY. THE RIGHT OF WAY MARKER SHALL BE A WITNESS TO THE RIGHT OF WAY CORNER, WHICH IS THE PROPERTY PIN, THE RIGHT OF WAY CORNER OR PROPERTY PIN IS A 5/8" IRON ROD WITH IDOT ALUMINUM CAP THAT SHALL NOT BE REMOVED, DAMAGED, OR DISTURBED WHEN SETTING THE RIGHT OF WAY MARKERS AT THE TWELVE INCH (12") OFFSET.

DELINEATORS			
STATION	OFFSET	DIRECTION	QUANTITY
674+31.25	27.00'	RT	1
674+59.25	27.00'	RT	1
674+31.25	27.00'	LT	1
674+59.25	27.00'	LT	1
TOTAL			4

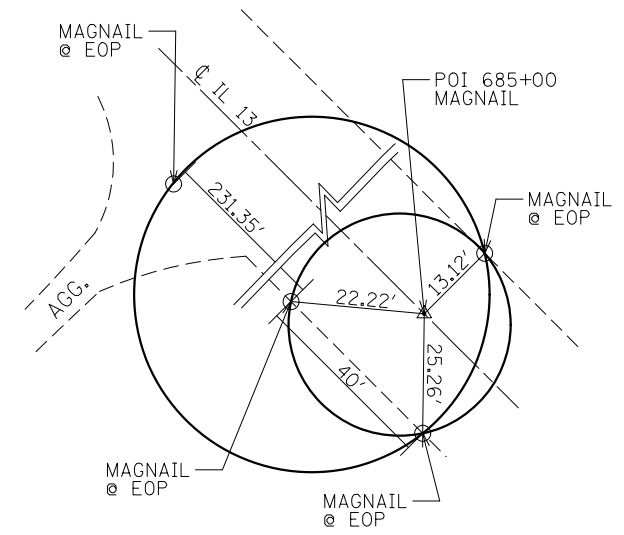
NOTE: THE DELINEATOR LOCATION SHOWN IN THE SCHEDULES AND ON THE PLANS ARE AN APPROXIMATE LOCATION. THE FINAL LOCATION SHALL BE AS DIRECTED BY THE ENGINEER.



TIE POINT 1



TIE POINT 2

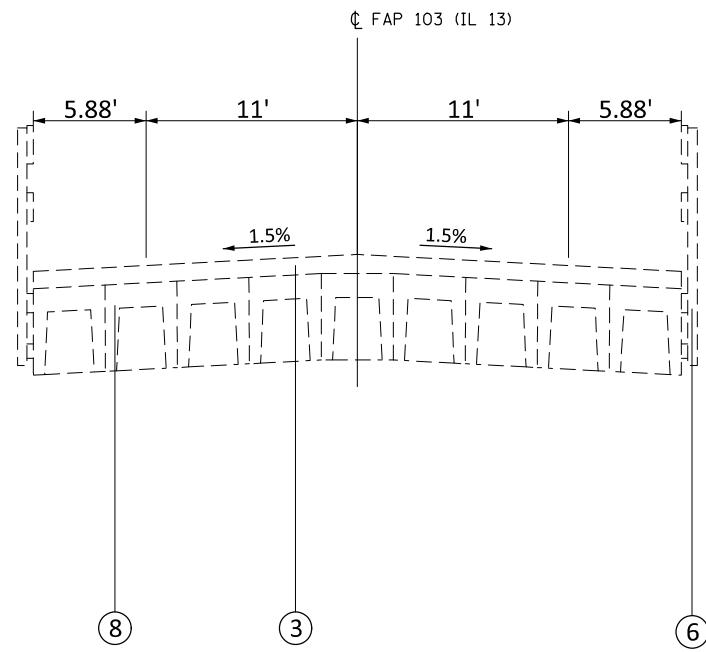


TIE POINT 3

BENCHMARKS

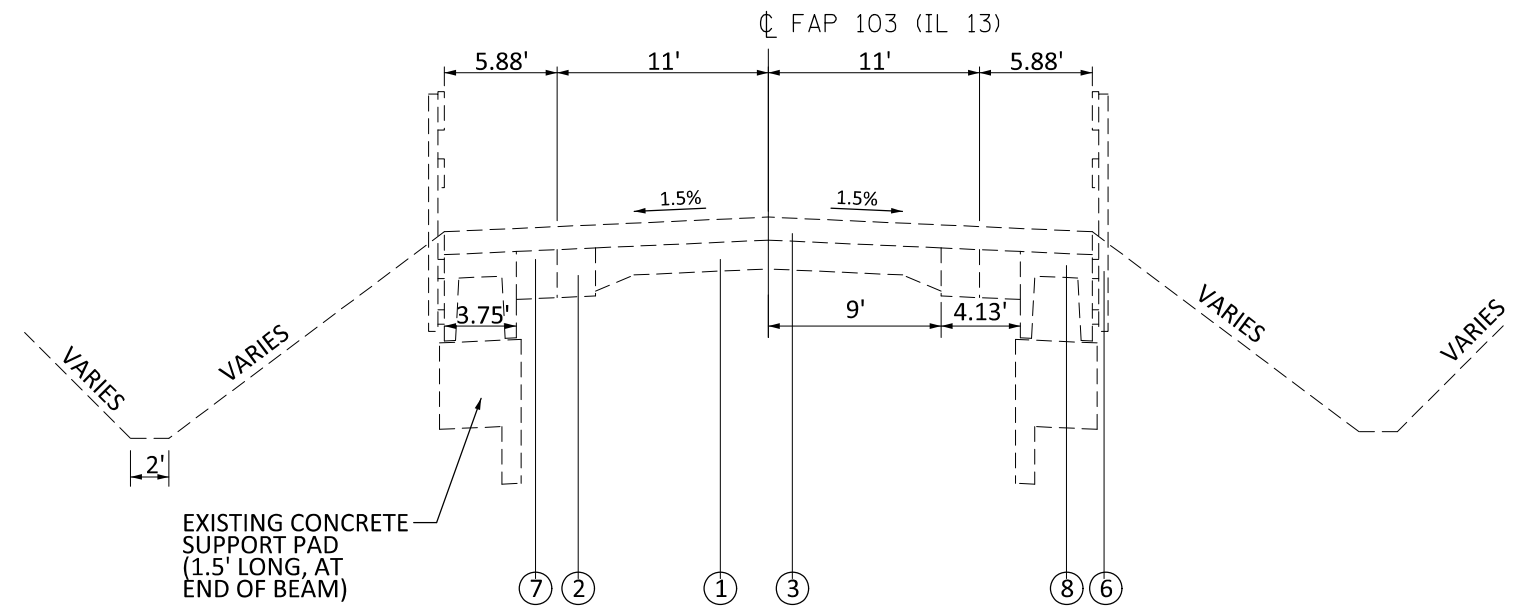
- BM# 13-16 SET CUT "□" ON SW CORNER OF WESTERNMOST OF "2" 3'X4 BOX CULVERTS @ SW SIDE OF IL 13, +/- 0.3 MI NW PF FRED HUTH RD.
ELEV. 446.666
- BM# 13-17 SET RR SPIKE IN POWER POLE AT NW CORNER OF IL 13 AND FRED HUTH RD
ELEV. 456.018
- BM# 13-18 SET CUT "□" ON NE SIDE OF POLE FOUNDATION FOR HIGH VOLTAGE TRANSMISSION LINE AT SW SIDE OF IL 13, +/- 0.2 MI N OF GREEN DIAMOND RD (APPROX 1 MI N OF MARISSA).
ELEV. 452.924

FILE NAME =	USER NAME = \$USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TIE POINTS AND BENCHMARKS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\$FILEL\$		DRAWN -	REVISED -					103	23BR-1	ST. CLAIR	38	7
	PLOT SCALE = \$SCALE*	CHECKED -	REVISED -		CONTRACT NO. 76E21							
	PLOT DATE = \$DATE*	DATE -	REVISED -		SCALE: n0 sCALEN	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			



EXISTING SECTION AT STRUCTURE

STA. 674+35 TO STA. 674+55

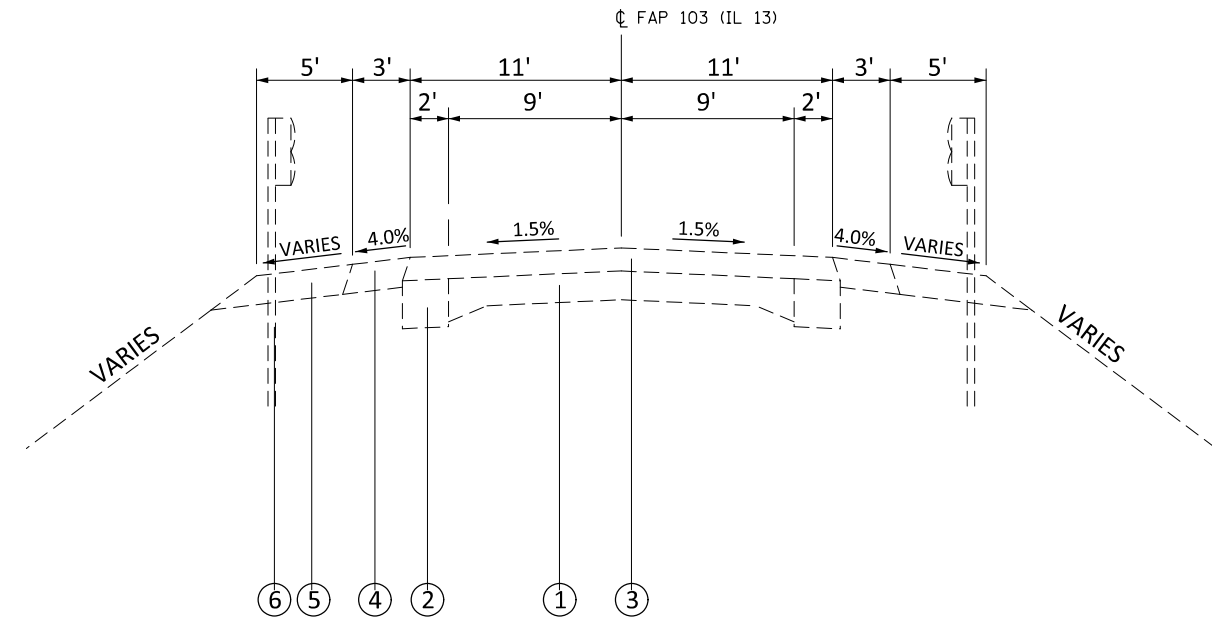


EXISTING TYPICAL SECTION (AT BRIDGE APPROACH)

STA. 674+15 TO STA. 674+35
STA. 674+55 TO STA. 674+75

LEGEND

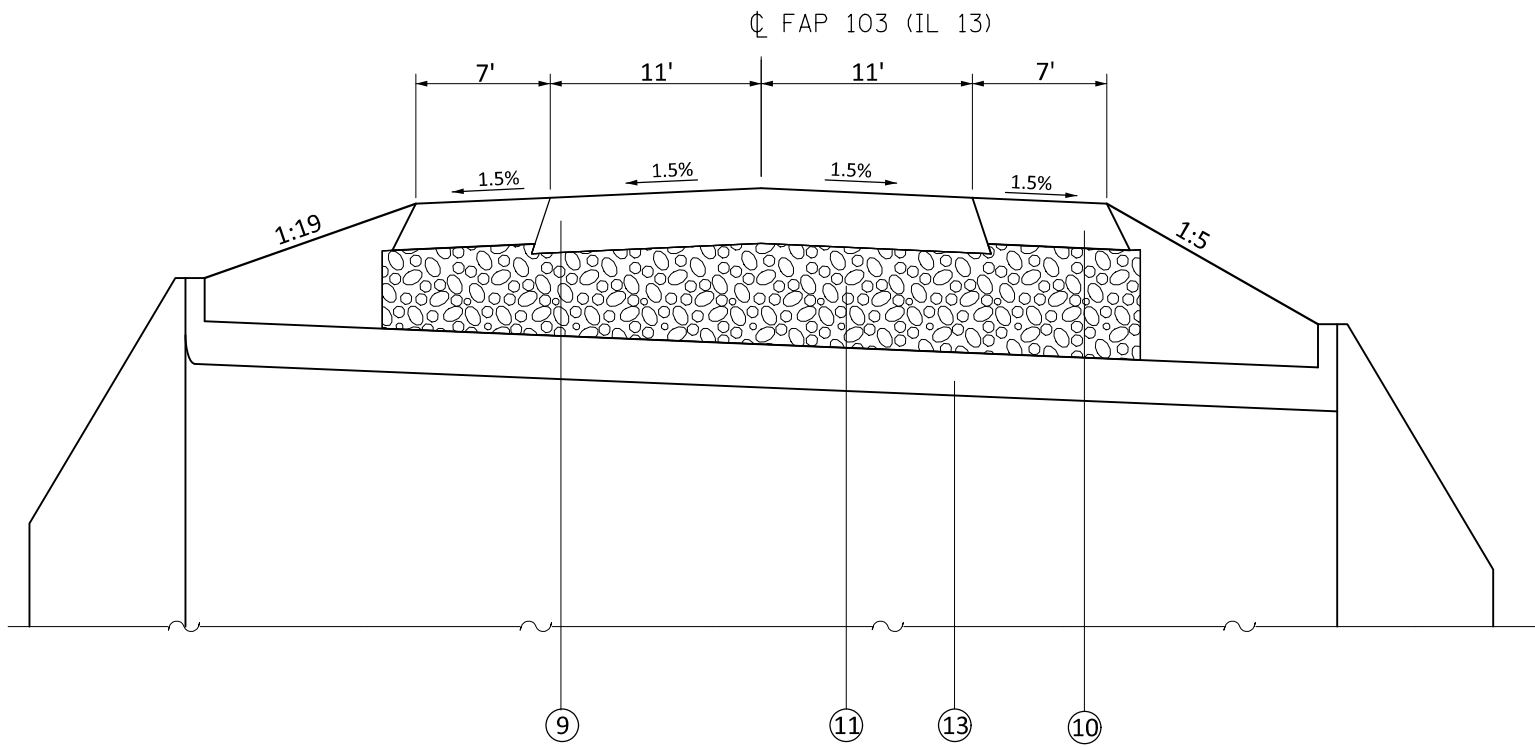
- ① EXISTING PCC PAVEMENT - 9-6-9
- ② EXISTING PCC BASE COURSE WIDENING - 10"
- ③ EXISTING HMA RESURFACING - +4"
- ④ EXISTING HMA SHOULDER - 6"
- ⑤ EXISTING AGGREGATE SHOULDER - 6"
- ⑥ EXISTING GUARDRAIL/BRIDGE RAIL
- ⑦ EXISTING PCC PAVEMENT - 10"
- ⑧ EXISTING PRC CHANNEL BEAM
- ⑨ PROPOSED HMA PAVEMENT (FULL-DEPTH), 12"
- ⑩ PROPOSED HMA BASE COURSE - 10"
- ⑪ PROPOSED POROUS GRANULAR EMBANKMENT - VARIES
- ⑫ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B - 6"
- ⑬ PROPOSED BOX CULVERT



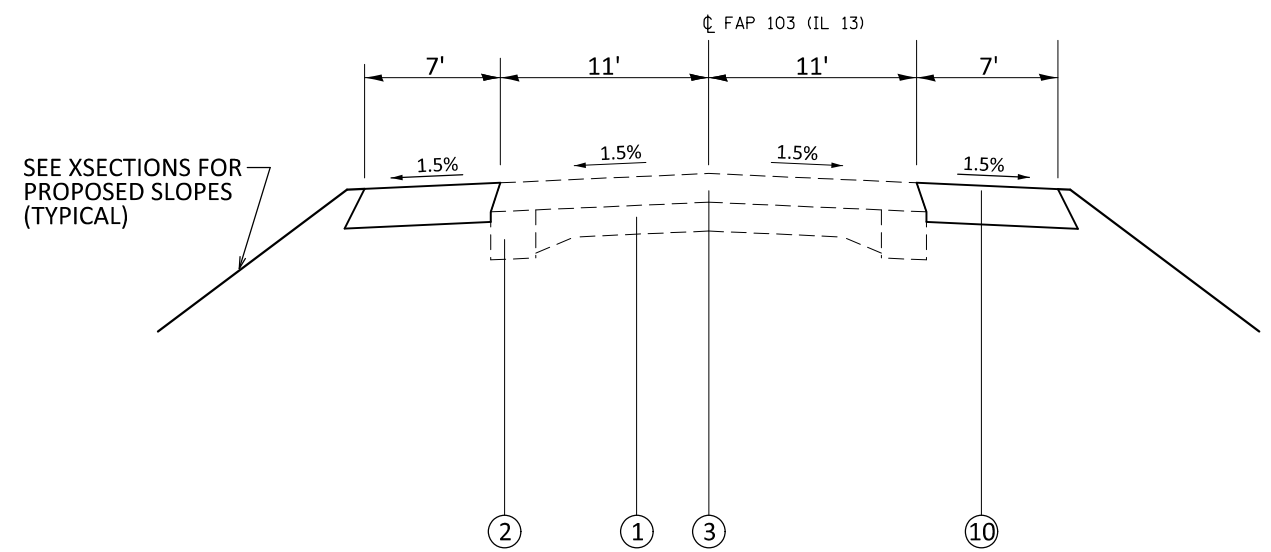
EXISTING TYPICAL SECTION

STA. 672+76 TO STA. 674+15
STA. 674+75 TO STA. 676+17

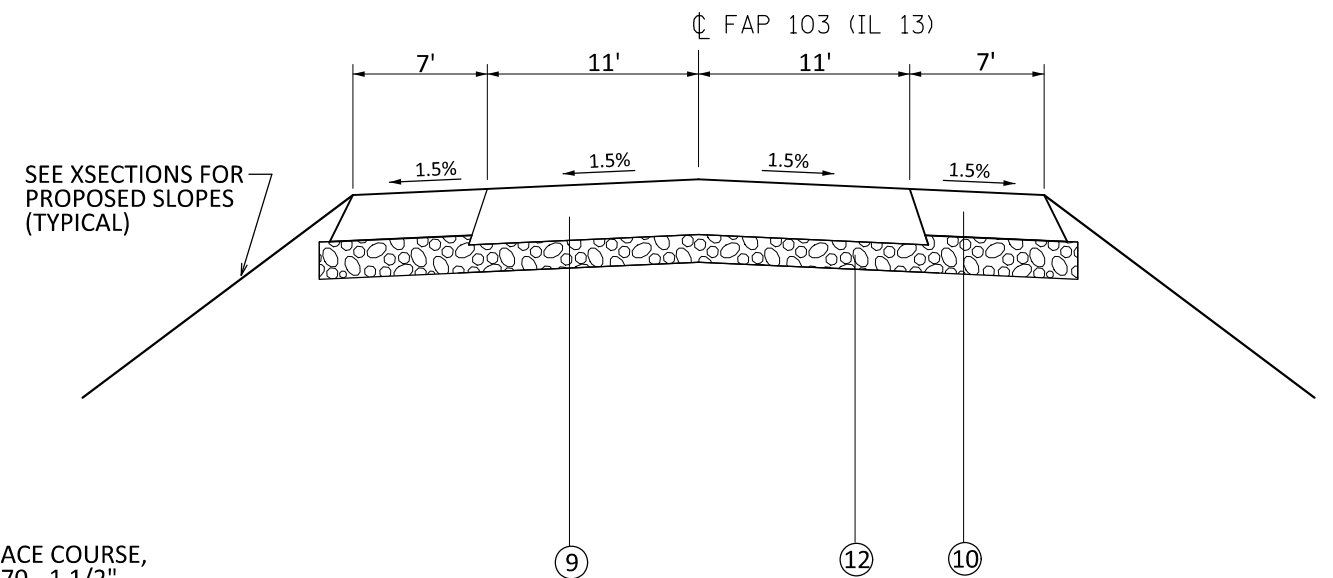
FILE NAME =	USER NAME = \$USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL		DRAWN -	REVISED -		103	23BR-1	ST. CLAIR	38	8			
	PLOT SCALE = \$SCALE*	CHECKED -	REVISED -		SCALE: NONE			SHEET NO. 1 OF 2 SHEETS			STA. TO STA.	
	PLOT DATE = \$DATE*	DATE -	REVISED -		CONTRACT NO. 76E21							
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT												



PROPOSED SECTION AT STRUCTURE
 STA. 674+34.125 TO STA. 674+55.875



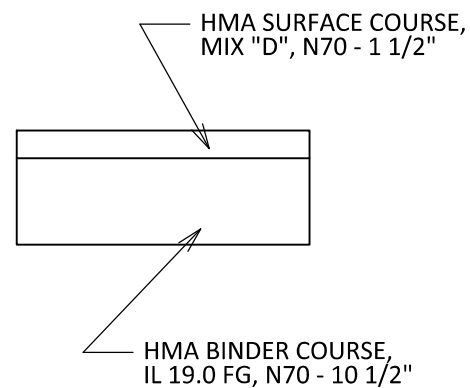
PROPOSED TYPICAL SECTION
 STA. 672+76 TO STA. 674+20
 STA. 674+70 TO STA. 676+17



PROPOSED TYPICAL SECTION
 STA. 674+20.000 TO STA. 674+34.125
 STA. 674+55.875 TO STA. 674+70.000

LEGEND

- ① EXISTING PCC PAVEMENT - 9-6-9
- ② EXISTING PCC BASE COURSE WIDENING - 10"
- ③ EXISTING HMA RESURFACING - +4"
- ④ EXISTING HMA SHOULDER - 6"
- ⑤ EXISTING AGGREGATE SHOULDER - 6"
- ⑥ EXISTING GUARDRAIL/BRIDGE RAIL
- ⑦ EXISTING PCC PAVEMENT - 10"
- ⑧ EXISTING PRC CHANNEL BEAM
- ⑨ PROPOSED HMA PAVEMENT (FULL-DEPTH), 12"
- ⑩ PROPOSED HMA BASE COURSE - 10"
- ⑪ PROPOSED POROUS GRANULAR EMBANKMENT - VARIES
- ⑫ PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B - 6"
- ⑬ PROPOSED BOX CULVERT



HMA PAVEMENT (FULL-DEPTH), 12" DETAIL

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE = *SCALE*	DRAWN -	REVISED -		SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	103	23BR-1	ST. CLAIR	38	9
	PLOT DATE = *DATE*	CHECKED -	REVISED -										
		DATE -	REVISED -										
							CONTRACT NO. 76E21		ILLINOIS FED. AID PROJECT				

SUGGESTED SEQUENCE OF CONSTRUCTION:

PRE-STAGE CONSTRUCTION

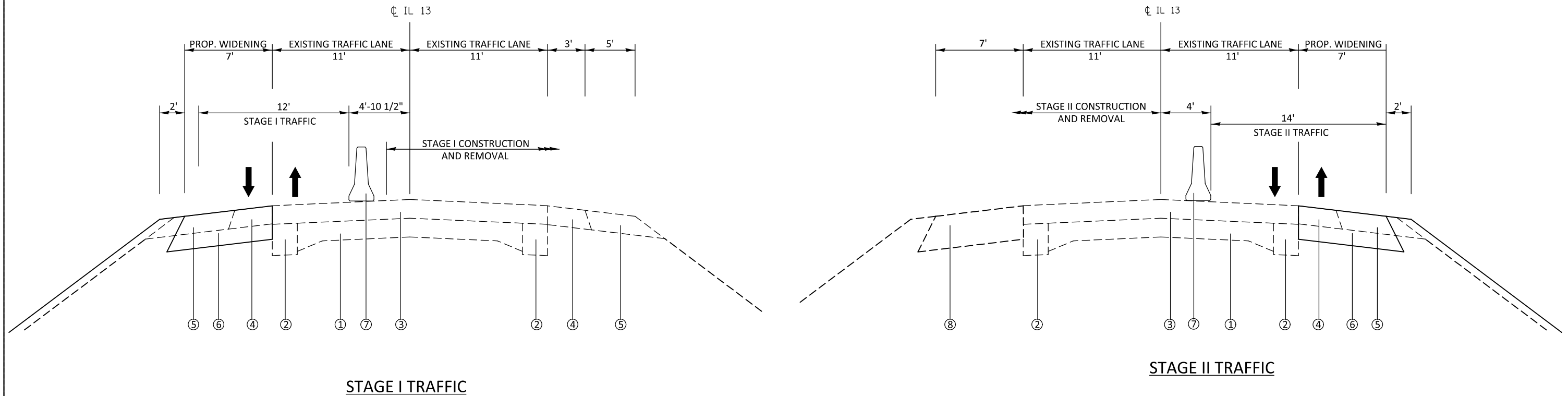
1. PRE-STAGE CONSTRUCTION SHALL CONSIST OF CONSTRUCTING THE 7' WIDENING ON THE NORTH SIDE OF THE PAVEMENT. THE PROPOSED WIDENING SHALL INCLUDE PLACING EARTH EXCAVATION AGAINST WIDENING TO DRAIN. THE WIDENING SHALL CONSIST OF HOT-MIX ASPHALT BASE COURSE - 10".
2. TRAFFIC CONTROL FOR THIS WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701326.

STAGE I CONSTRUCTION

1. STAGE I CONSTRUCTION SHALL CONSIST OF REMOVING THE EXISTING PAVED SHOULDER ON THE SOUTH, COMPLETE REMOVAL OF THE EXISTING BRIDGE SHOULDER ON THE SOUTH, CONSTRUCTING THE 7' WIDENING ON THE SOUTH SIDE OF THE PAVEMENT, PAVEMENT REMOVAL AND REPLACEMENT TO THE LIMITS SHOWN, PROPOSED STRUCTURE REMOVAL AND CONSTRUCTION, GUARDRAIL REMOVAL, AND PLACING RIPRAP.
2. THE PROPOSED WIDENING SHALL INCLUDE PLACING EARTH EXCAVATION AGAINST WIDENING TO DRAIN. THE WIDENING SHALL CONSIST OF HOT-MIX ASPHALT BASE COURSE - 10".
3. TRAFFIC CONTROL FOR THIS WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.

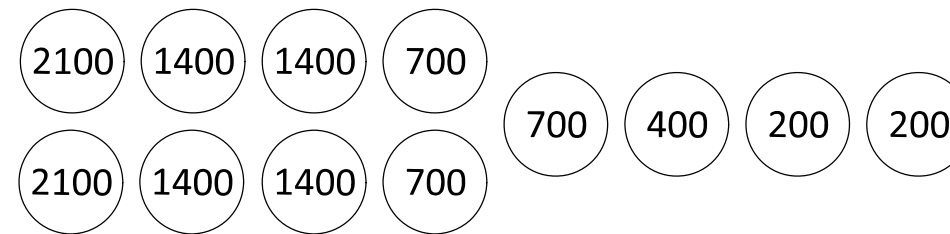
STAGE II CONSTRUCTION

1. STAGE 2 CONSTRUCTION SHALL CONSIST OF COMPLETE REMOVAL OF THE EXISTING BRIDGE SHOULDER ON THE NORTH, PAVEMENT REMOVAL AND REPLACEMENT NECESSARY TO COMPLETE THE STRUCTURE CONSTRUCTION, THE REMAINING STRUCTURE REMOVAL AND CONSTRUCTION, GUARDRAIL REMOVAL AND REPLACEMENT, AND PLACING RIPRAP.
2. TRAFFIC CONTROL FOR THIS WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701321.



LEGEND

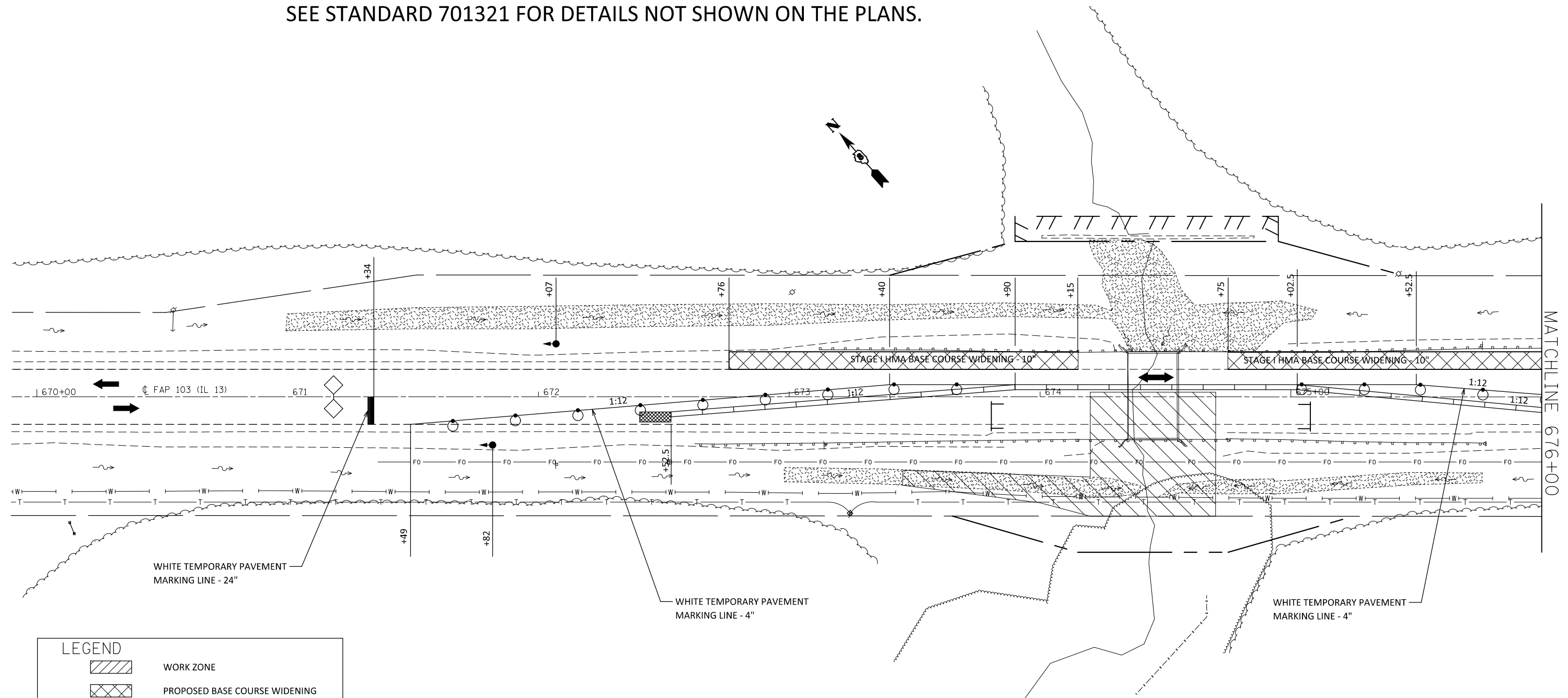
- ① EXISTING P.C.C PAVEMENT - 9" x 6" x 9"
- ② EXISTING H.M.A. WIDENING - 10"
- ③ EXISTING HMA RESURFACING - 5"
- ④ EXISTING HMA SHOULDER - 6"
- ⑤ EXISTING AGGREGATE SHOULDER - 6"
- ⑥ PROPOSED HMA BASE COURSE WIDENING - 10"
- ⑦ TEMPORARY CONCRETE BARRIER
- ⑧ STAGE I BASE COURSE WIDENING



SAND MODULE IMPACT ATTENUATOR

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUGGESTED SEQUENCE OF CONSTRUCTION			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL		DRAWN -	REVISED -		SCALE: NONE SHEET NO. 1 OF 5 SHEETS STA. TO STA.			103	23BR-1	ST. CLAIR	38	11
		CHECKED -	REVISED -					CONTRACT NO. 76E21				
		DATE -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SEE STANDARD 701321 FOR DETAILS NOT SHOWN ON THE PLANS.



MATCHLINE 676+00

LEGEND	
	WORK ZONE
	PROPOSED BASE COURSE WIDENING
	TEMPORARY CONCRETE BARRIER
	SIGNALIZED TWO-WAY TRAFFIC LANE
	IMPACT ATTENUATOR
	DRUM WITH STEADY BURNING LIGHT
	INDUCTION LOOP DETECTOR
	TEMPORARY BRIDGE TRAFFIC SIGNALS
	TYPE 3 BARRICADE

NOTES:

1. THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER SHALL BE PAINTED WITH TEMPORARY PAVEMENT MARKING "YELLOW". THE COST FOR THIS SHALL BE CONSIDERED AS INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER.
2. THE CONTRACTOR WILL BE ALLOWED THE OPTION OF USING SAND MODULE IMPACT ATTENUATORS FOR THIS PROJECT. IF THE CONTRACTOR CHOOSES THIS OPTION THE CONFIGURATION SHOWN WILL BE USED.
3. THIS PROJECT WILL REQUIRE TEMPORARY RUMBLE STRIP.

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -
FILEL		DRAWN -	REVISED -
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -
	PLOT DATE = *DATE*	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

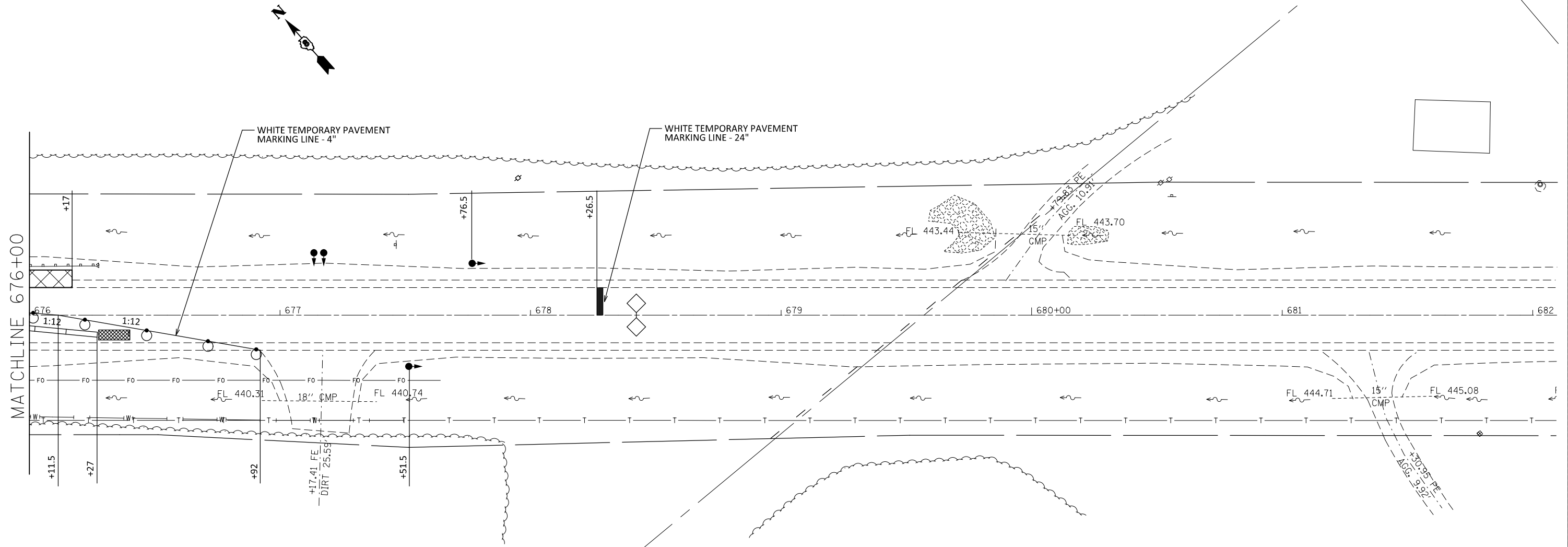
STAGE I CONSTRUCTION

SCALE: 20:1 SHEET NO. 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	23BR-1	ST. CLAIR	38	12
CONTRACT NO. 76E21				

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

SEE STANDARD 701321 FOR DETAILS NOT SHOWN ON THE PLANS.



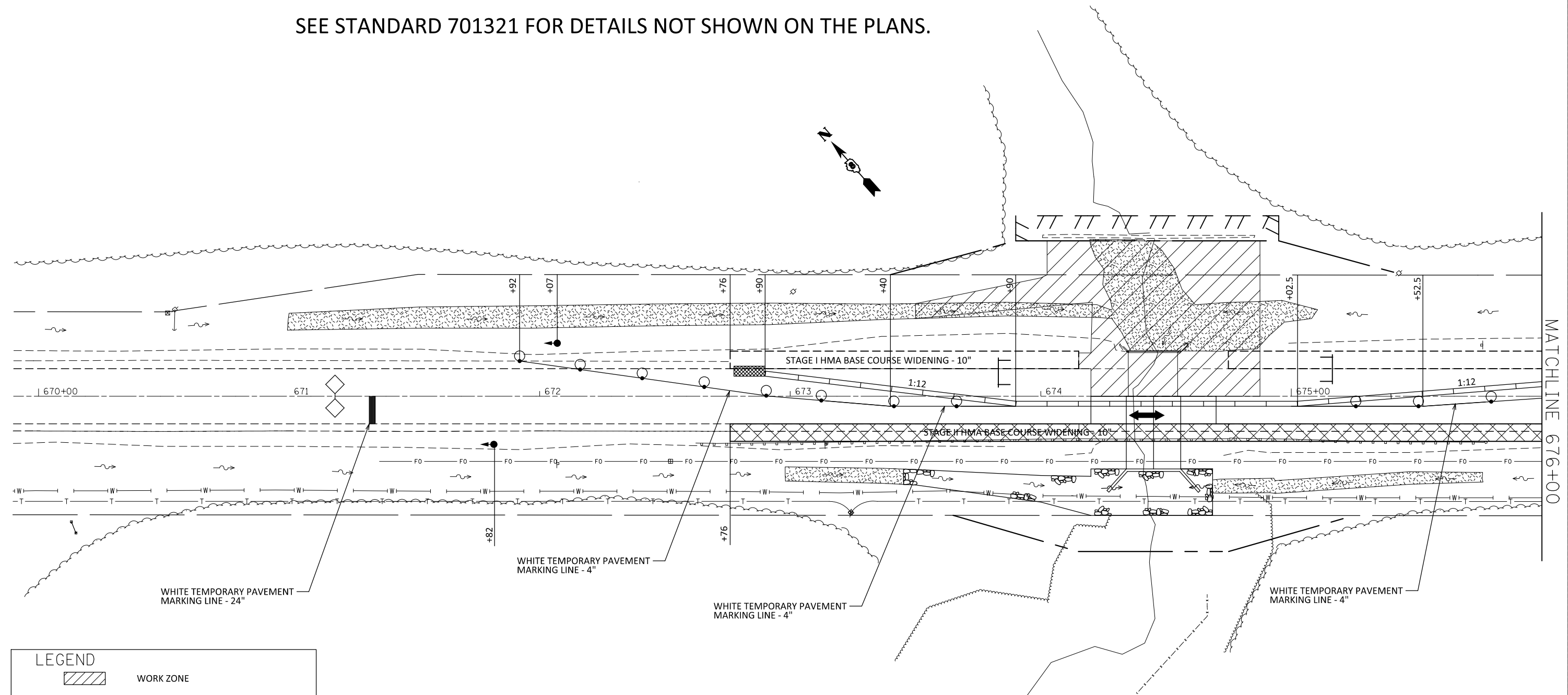
LEGEND	
	WORK ZONE
	PROPOSED BASE COURSE WIDENING
	TEMPORARY CONCRETE BARRIER
	SIGNALIZED TWO-WAY TRAFFIC LANE
	IMPACT ATTENUATOR
	DRUM WITH STEADY BURNING LIGHT
	INDUCTION LOOP DETECTOR
	TEMPORARY BRIDGE TRAFFIC SIGNALS
	TYPE 3 BARRICADE

NOTES:

1. THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER SHALL BE PAINTED WITH TEMPORARY PAVEMENT MARKING "YELLOW". THE COST FOR THIS SHALL BE CONSIDERED AS INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER.
2. THE CONTRACTOR WILL BE ALLOWED THE OPTION OF USING SAND MODULE IMPACT ATTENUATORS FOR THIS PROJECT. IF THE CONTRACTOR CHOOSES THIS OPTION THE CONFIGURATION SHOWN WILL BE USED.
3. THIS PROJECT WILL REQUIRE TEMPORARY RUMBLE STRIP.

FILE NAME = #FILE#	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE I CONSTRUCTION			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE = #SCALE#	DRAWN -	REVISED -		SCALE: 20:1	SHEET NO. 3	OF 5 SHEETS	STA.	TO STA.	103	23BR-1	ST. CLAIR	38	13
	PLOT DATE = #DATE#	CHECKED -	REVISED -							CONTRACT NO. 76E21				
		DATE -	REVISED -							FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEE STANDARD 701321 FOR DETAILS NOT SHOWN ON THE PLANS.



MATCHLINE 676+00

LEGEND	
	WORK ZONE
	PROPOSED BASE COURSE WIDENING
	TEMPORARY CONCRETE BARRIER
	SIGNALIZED TWO-WAY TRAFFIC LANE
	IMPACT ATTENUATOR
	DRUM WITH STEADY BURNING LIGHT
	INDUCTION LOOP DETECTOR
	TEMPORARY BRIDGE TRAFFIC SIGNALS
	TYPE 3 BARRICADE

- NOTES:
1. THE BOTTOM 6" OF THE TEMPORARY CONCRETE BARRIER SHALL BE PAINTED WITH TEMPORARY PAVEMENT MARKING "YELLOW". THE COST FOR THIS SHALL BE CONSIDERED AS INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER.
 2. THE CONTRACTOR WILL BE ALLOWED THE OPTION OF USING SAND MODULE IMPACT ATTENUATORS FOR THIS PROJECT. IF THE CONTRACTOR CHOOSES THIS OPTION THE CONFIGURATION SHOWN WILL BE USED.
 3. THIS PROJECT WILL REQUIRE TEMPORARY RUMBLE STRIP.

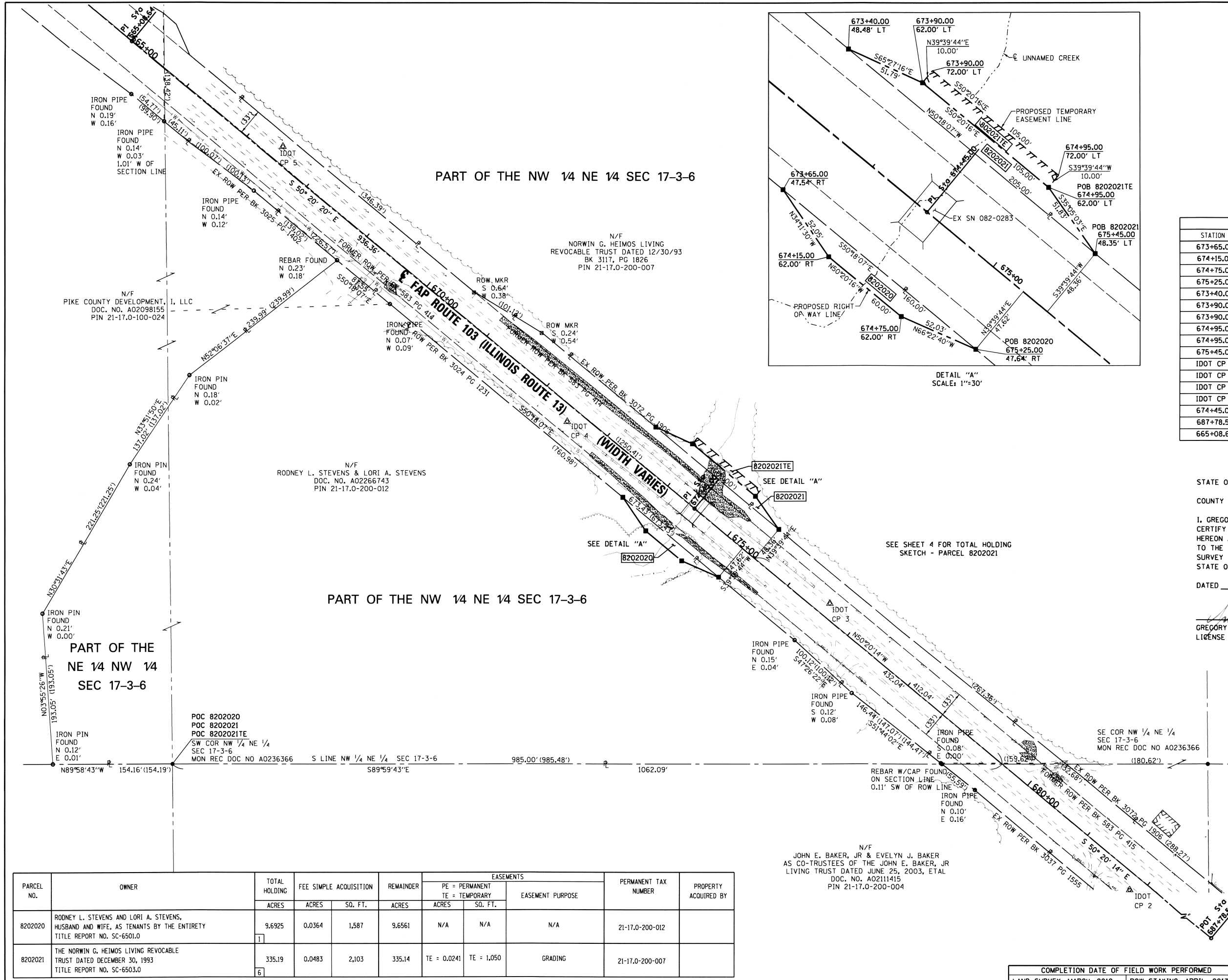
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*FILEL\$		DRAWN -	REVISED -		SCALE: 20:1	SHEET NO. 4 OF 5 SHEETS	STA.	TO STA.	103	23BR-1	ST. CLAIR	38	14
		CHECKED -	REVISED -					CONTRACT NO. 76E21					
		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								



SPACE RESERVED FOR RECORDING OFFICER

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

COORDINATE TABLE			
STATION	OFFSET	NORTHING	EASTING
673+65.00	47.54' RT	586376.4487	406362.8509
674+15.00	62.00' RT	586333.3923	406392.1030
674+75.00	62.00' RT	586295.0968	406438.2923
675+25.00	47.64' RT	586274.2501	406485.9584
673+40.00	48.48' LT	586466.3221	406404.8898
673+90.00	62.00' LT	586444.8067	406452.0015
673+90.00	72.00' LT	586452.5049	406458.3841
674+95.00	72.00' LT	586385.4877	406539.2154
674+95.00	62.00' LT	586377.7895	406532.8328
675+45.00	48.35' LT	586335.3800	406562.6212
IDOT CP 2	681+86.20/19.15' RT	585874.1555	407013.1435
IDOT CP 3	676+56.30/17.31' RT	586240.4682	406628.5220
IDOT CP 4	672+48.66/18.30' RT	586473.2137	406291.9557
IDOT CP 5	667+43.79/20.40' LT	586825.2190	405928.0286
674+45.00	PI	586361.9871	406454.7811
687+78.54	POT	585510.8287	407481.3594
665+08.64	PI	586959.6158	405733.9365



STATE OF ILLINOIS)
) SS
 COUNTY OF MADISON)

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

DATED 4/10/2013

GREGORY S. McVICAR, PLS NO. 3512
 LICENSE EXPIRATION DATE: 11/30/2014



SHERRILL ASSOCIATES, INC.
 Engineers - Surveyors - Planners
 Professional Design Firm Number 184-001238
 316 North Main Street, Edwardsville, IL 62025 | 2727 Telegraph Road, St. Louis, MO 63125

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PLAT OF HIGHWAYS
 FAP ROUTE 103 (IL 13)
 SECTION 23BR-1
 ST CLAIR COUNTY
 JOB NO. R-98-002-12

STATION 665+08.64 TO STATION 687+78.54

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	23BR-1	ST. CLAIR	38	17

CONTRACT NO. 76E21

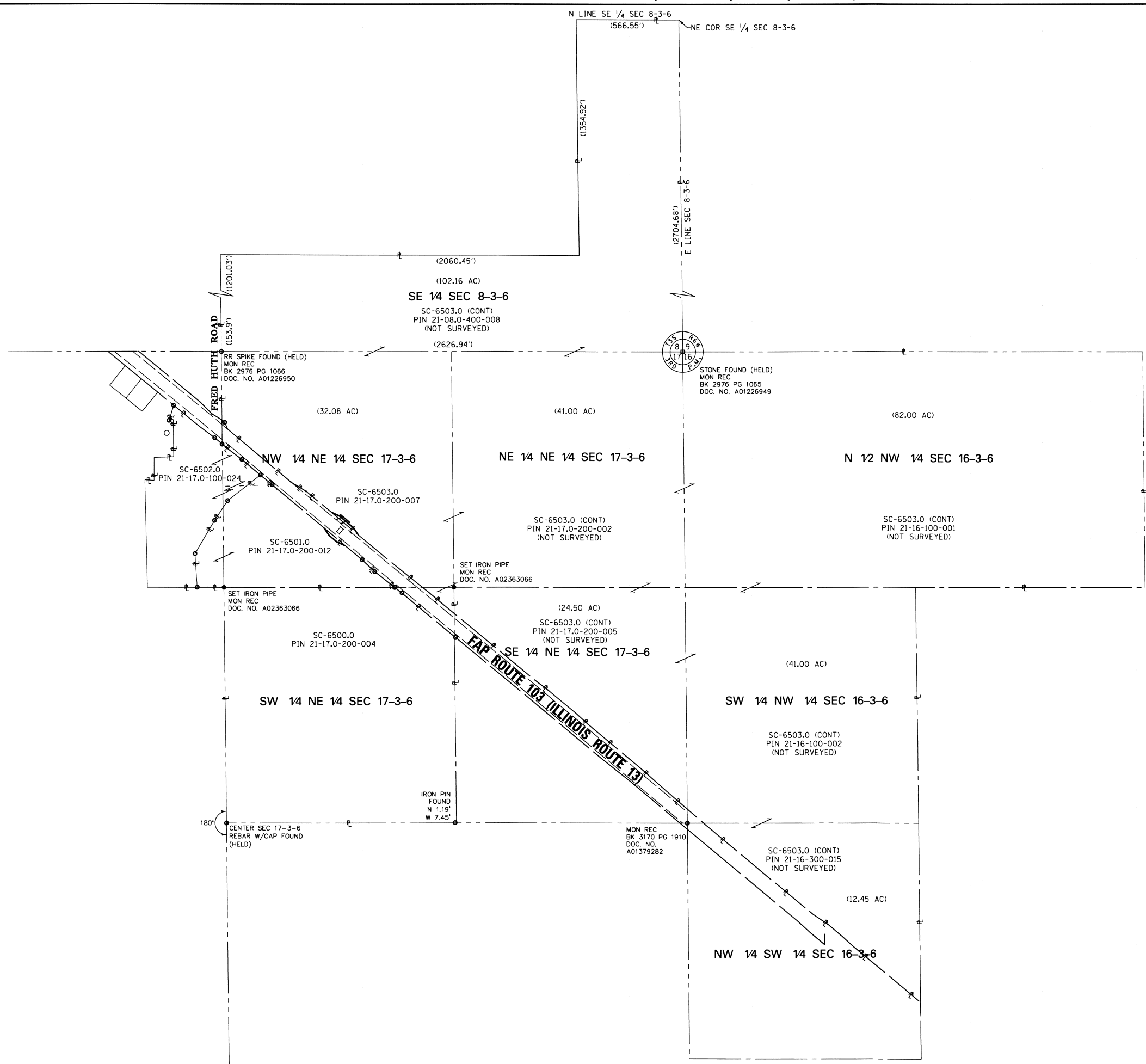
PARCEL NO.	OWNER	TOTAL HOLDING ACRES	EASEMENTS			PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			FEE SIMPLE ACQUISITION ACRES	REMAINDER ACRES	EASEMENT PURPOSE		
8202020	RODNEY L. STEVENS AND LORI A. STEVENS, HUSBAND AND WIFE, AS TENANTS BY THE ENTIRETY TITLE REPORT NO. SC-6501.0	9.6925	0.0364	1,587	9.6561	21-17.0-200-012	
8202021	THE NORWIN G. HEIMOS LIVING REVOCABLE TRUST DATED DECEMBER 30, 1993 TITLE REPORT NO. SC-6503.0	335.19	0.0483	2,103	335.14	21-17.0-200-007	

PART OF SECTIONS 8, 16 & 17, T 3 S, R 6 W, OF THE 3RD PM



SPACE RESERVED FOR RECORDING OFFICER

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2



STATE OF ILLINOIS)
) SS
 COUNTY OF MADISON)

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

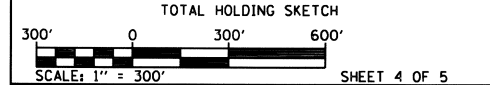
DATED 4/10/2013

G. S. McVicar
 GREGORY S. McVICAR, PLS NO. 3512
 LICENSE EXPIRATION DATE: 11/30/2012



SA SHERRILL ASSOCIATES, INC.
 Engineers - Surveyors - Planners
 Professional Design Firm Number 184-001238
 316 North Main Street, Edwardsville, IL 62025 | 2727 Telegraph Road, St. Louis, MO 63125

ILLINOIS DEPARTMENT OF TRANSPORTATION
 PLAT OF HIGHWAYS
 FAP ROUTE 103 (IL 13)
 SECTION 23BR-1
 ST. CLAIR COUNTY
 JOB NO. R-98-002-12



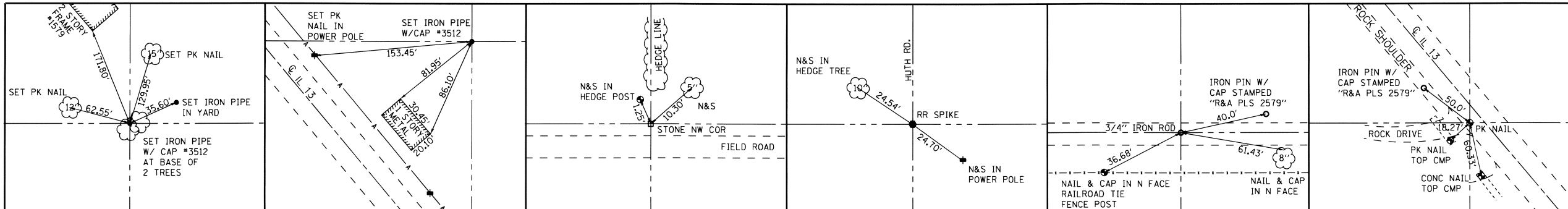
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
 1102 EASTPORT PLAZA DRIVE
 COLLINGSVILLE, ILLINOIS 62234-6198

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	23BR-1	ST. CLAIR	38	18

CONTRACT NO. 76E21
 FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY: MARCH, 2012	ROW STAKING: APRIL, 2013

CONTROL AND SECTION CORNER TIE SHEET



SW COR NW 1/4 NE 1/4 SEC 17, T. 3 S., R. 6 W.
04/09/2013 MONUMENT RECORD DOC. NO. A02363066
N=586035.2450, E=405786.8563

SE COR NW 1/4 NE 1/4 SEC 17, T. 3 S., R. 6 W.
04/09/2013 MONUMENT RECORD DOC. NO. A02363066
N=586035.1370, E=407112.0388

NE COR SEC 17, T. 3 S., R. 6 W.
05/09/1994 MONUMENT RECORD DOC. NO. A01226949
(BK 2976 PG 1065) N=587387.5135, E=408421.2927

N 1/4 COR SEC 17, T. 3 S., R. 6 W.
05/09/1994 MONUMENT RECORD DOC. NO. A01226950
(BK 2976 PG 1066) N=587387.8877, E=405770.2381

S 1/4 COR SEC 17, T. 3 S., R. 6 W.
06/23/1997 MONUMENT RECORD DOC. NO. A01379282
(BK 3170 PG 1910) N=581976.9076, E=405836.7159

E 1/4 COR SEC 17, T. 3 S., R. 6 W.
06/23/1997 MONUMENT RECORD DOC. NO. A01379282
(BK 3170 PG 1910) N=584682.5446, E=408453.1500

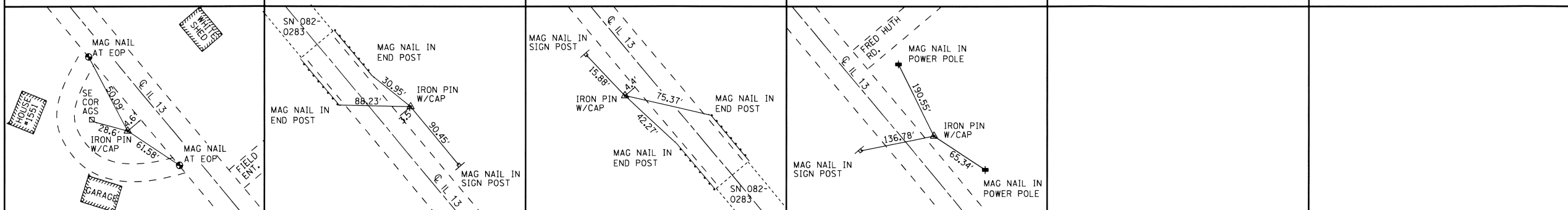
STATE OF ILLINOIS)
) SS
COUNTY OF MADISON)

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

DATED 4/10/13

Gregory S. McVicar
GREGORY S. McVICAR, PLS NO. 3512
LICENSE EXPIRATION DATE: 11/30/2014

SPACE RESERVED FOR RECORDING OFFICER



IDOT CONTROL POINT NO. 2
N=585874.1555, E=407013.1435

IDOT CONTROL POINT NO. 3
N=586240.4682, E=406628.5220

IDOT CONTROL POINT NO. 4
N=586473.2137, E=406291.9557

IDOT CONTROL POINT NO. 5
N=586825.2190, E=405928.0286



SA SHERRILL ASSOCIATES, INC.
Engineers - Surveyors - Planners
Professional Design Firm Number 184-001238
316 North Main Street, Edwardsville, IL 62025
2727 Lemay Ferry Road, St. Louis, MO 63125

COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: MARCH, 2012 | ROW STAKING: APRIL, 2013

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 103 (IL 13)
SECTION 23BR-1
ST. CLAIR COUNTY
JOB NO. R-98-002-12
CONTROL AND SECTION CORNER TIE SHEET

NOT TO SCALE SHEET 5 OF 5

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	23BR-1	ST. CLAIR	38	19
				CONTRACT NO. 76E21

B.M. #13-17: Set RR spike in p. pole at NE corner of IL13 & Fred Huth Rd., Elev. 456.02.

EXISTING STRUCTURE: SN 082-0283, built in 1924 as SBI Rte. 13 Section 23 at Sta. 674+45. In 1970 the superstructure was replaced and widened as SBI Rte. 13 Section 23BR-2. In 1995 the roadway was resurfaced and steel bridge railing replaced. Existing structure is a single span using precast concrete channel beams with HMA overlay, 20'-0" back-back abutments, 33'-9" out-to width, reinforced concrete closed abutments on spread footings.

Existing structure shall be removed and replaced using staged construction to maintain one lane of traffic.

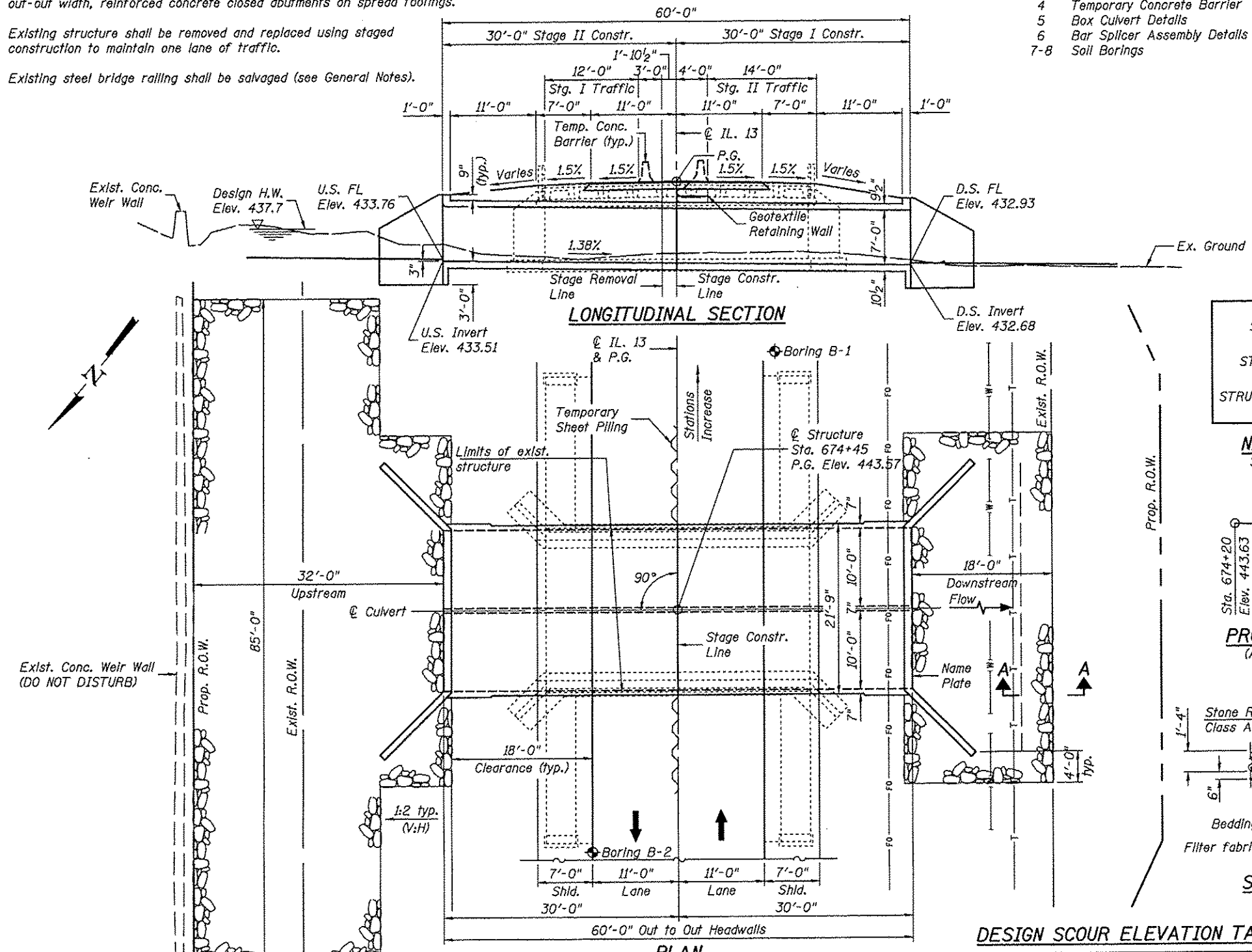
Existing steel bridge railing shall be salvaged (see General Notes).

INDEX OF SHEETS

- 1 Gen Plan, Gen Notes, Bill of Mat'l
- 2 Stage Construction / Temp Sheet Piling
- 3 Temporary Geotextile Retaining Wall
- 4 Temporary Concrete Barrier
- 5 Box Culvert Details
- 6 Bar Splicer Assembly Details
- 7-8 Soil Borings

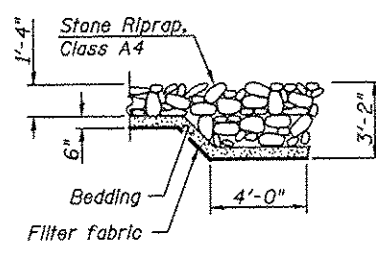
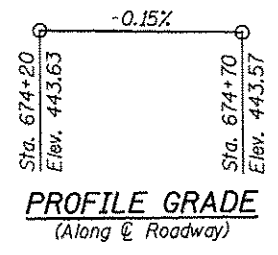
GENERAL NOTES

Precast culvert alternate is not allowed.
 Reinforcement bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 Broken Concrete from the removal of the existing structure may be used for all or part of the Stone Riprap. Materials and placement shall be according to the applicable provisions of Article 1005.01 and Section 281 of the Standard Specifications.
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
 Structure excavation for the box culvert will not be measured or paid for separately, and the cost shall be included in other related items according to Article 502.13 of the Standard Specifications.
 The Contractor shall salvage the existing steel bridge railing and deliver to the following location:
 IDOT Maintenance Yard
 12540 Sportsman Road
 Highland IL 62249
 Contact: Todd Reilson 618-654-5110
 This work shall be included in the cost of "Removal of Existing Structures".



STATION 674+45
 BUILT 20__ BY
 STATE OF ILLINOIS
 LOADING HL-93
 STRUCTURE NO. 082-2046

NAME PLATE
 See Std. 515001



APPROVED
 For Structural Adequacy Only
David C. Depp
 Engineer of Bridges & Structures

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A4	Sq Yd	356
Filter Fabric	Sq Yd	356
Removal Of Existing Structures	Each	1
Reinforcement Bars, Epoxy Coated	Pound	25610
Bar Splicers	Each	97
Name Plates	Each	1
Concrete Box Culverts	Cu Yd	129.3
Temporary Sheet Piling	Sq Ft	374
Geotextile Retaining Wall	Sq Ft	47

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	430.51	429.68

LOADING HL-93

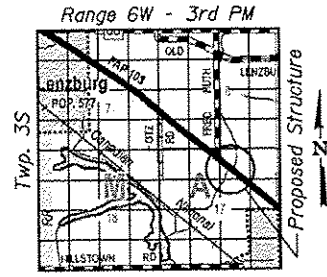
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications

DESIGN STRESSES

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



LOCATION SKETCH

GENERAL PLAN & ELEVATION
ILLINOIS 13 OVER UNNAMED CREEK
F.A.P. RTE. 103 SEC. 23BR-1
ST. CLAIR COUNTY
STATION 674+45
STRUCTURE NO. 082-2046

FILE: J:\0822046-16E21-00-gplan.dgn



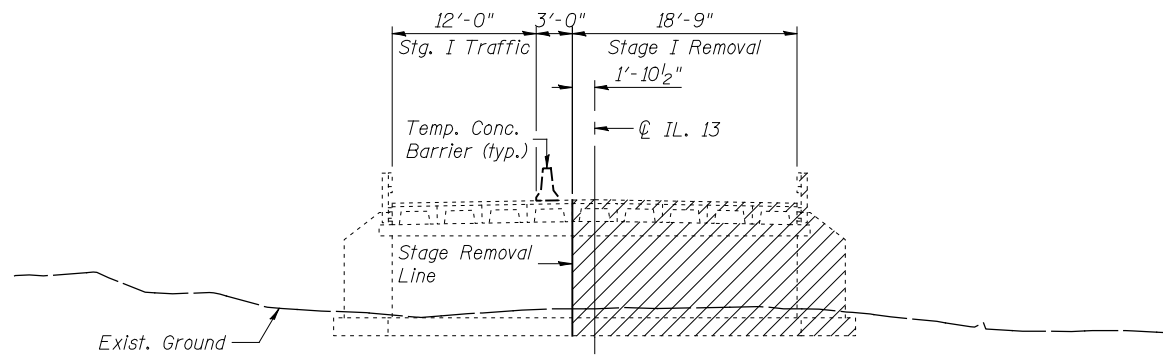
Signed: *David C. Depp*
 Date: 6-28-2013
 Lic. Expires: 11-30-2014

WATERWAY INFORMATION
 Existing Low Grade Elevation: 443.5 @ Sta. 674+45

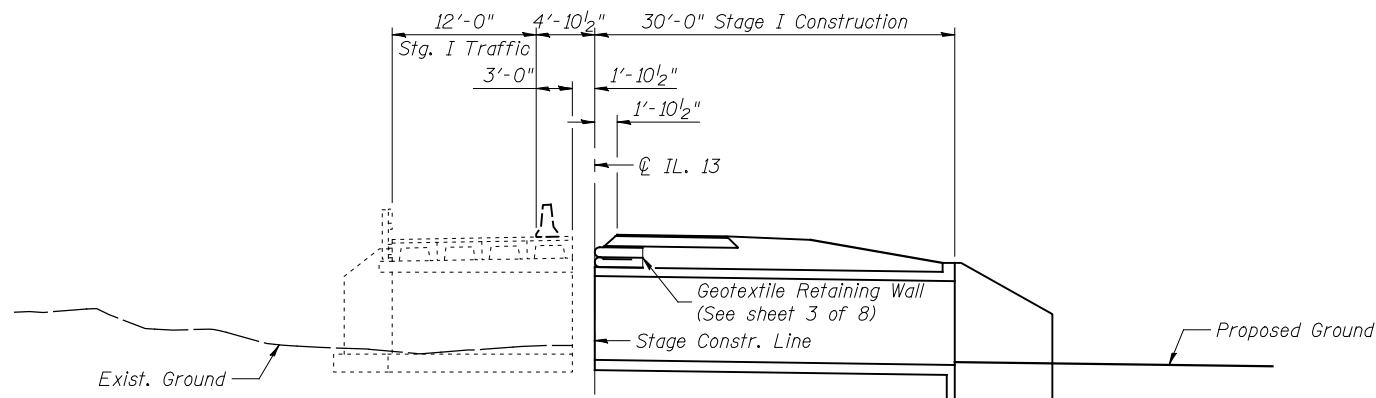
Drainage Area = 0.32 sq. mi. Prop. Low Grade Elevation: 443.6 @ Sta. 674+45

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
10	290	46	58	436.7	0.9	0.0	437.6	436.7	
Design	50	498	65	79	437.7	1.1	0.3	438.8	438.0
Base	100	596	71	86	438.1	1.3	0.4	439.4	438.5
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	843	85	102	438.8	1.9	1.0	440.7	439.8

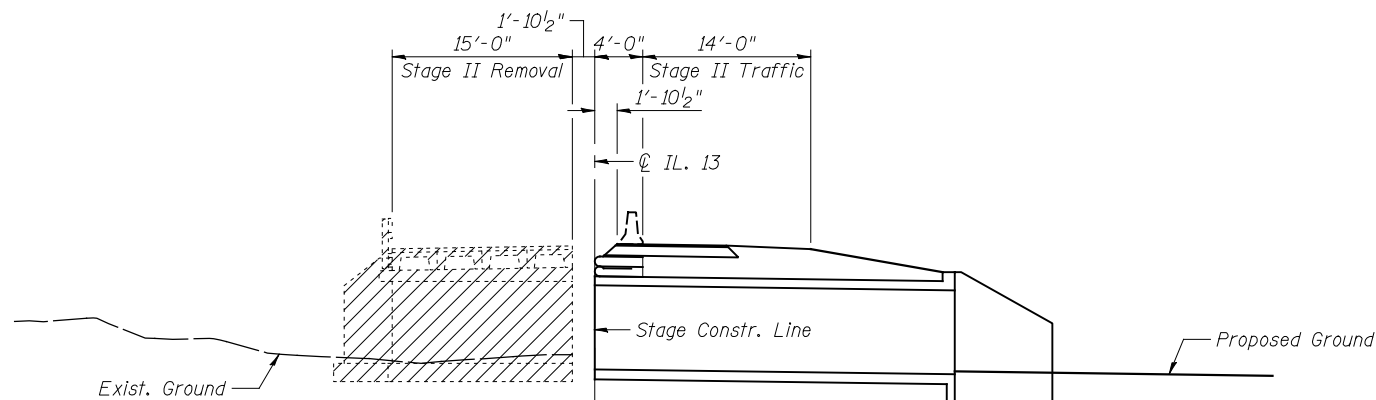
FILE NAME * ...0822046-16E21-00-gplan.dgn	USER NAME * DCD	DESIGNED - DCD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE NO. 082-2046	F.A.P. RTE. 103	SECTION 23BR-1	COUNTY ST. CLAIR	TOTAL SHEETS 38	SHEET NO. 20
JOHNSON, DEPP & QUINN CONSULTING ENGINEERS Springfield, Illinois	PLOT SCALE *	CHECKED - PGM	REVISED -			STA. 674+45	CONTRACT NO. 76E21			
PLOT DATE * 06/28/2013 16:56:21	DRAWN - P. Ray	CHECKED - DCD	REVISED -			ILLINOIS FED. AID PROJECT				
						SHEET NO. 1 OF 8 SHEETS				



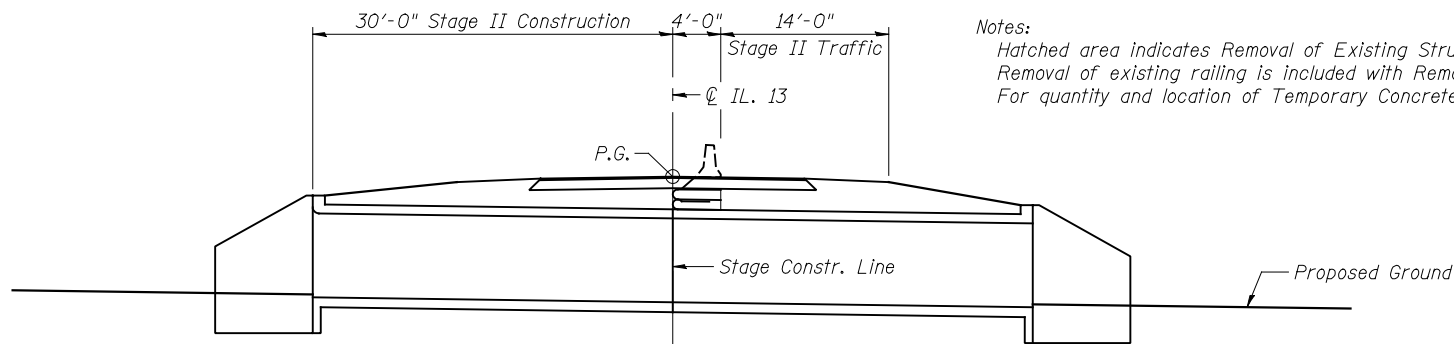
STAGE I REMOVAL
(Looking South)



STAGE I CONSTRUCTION

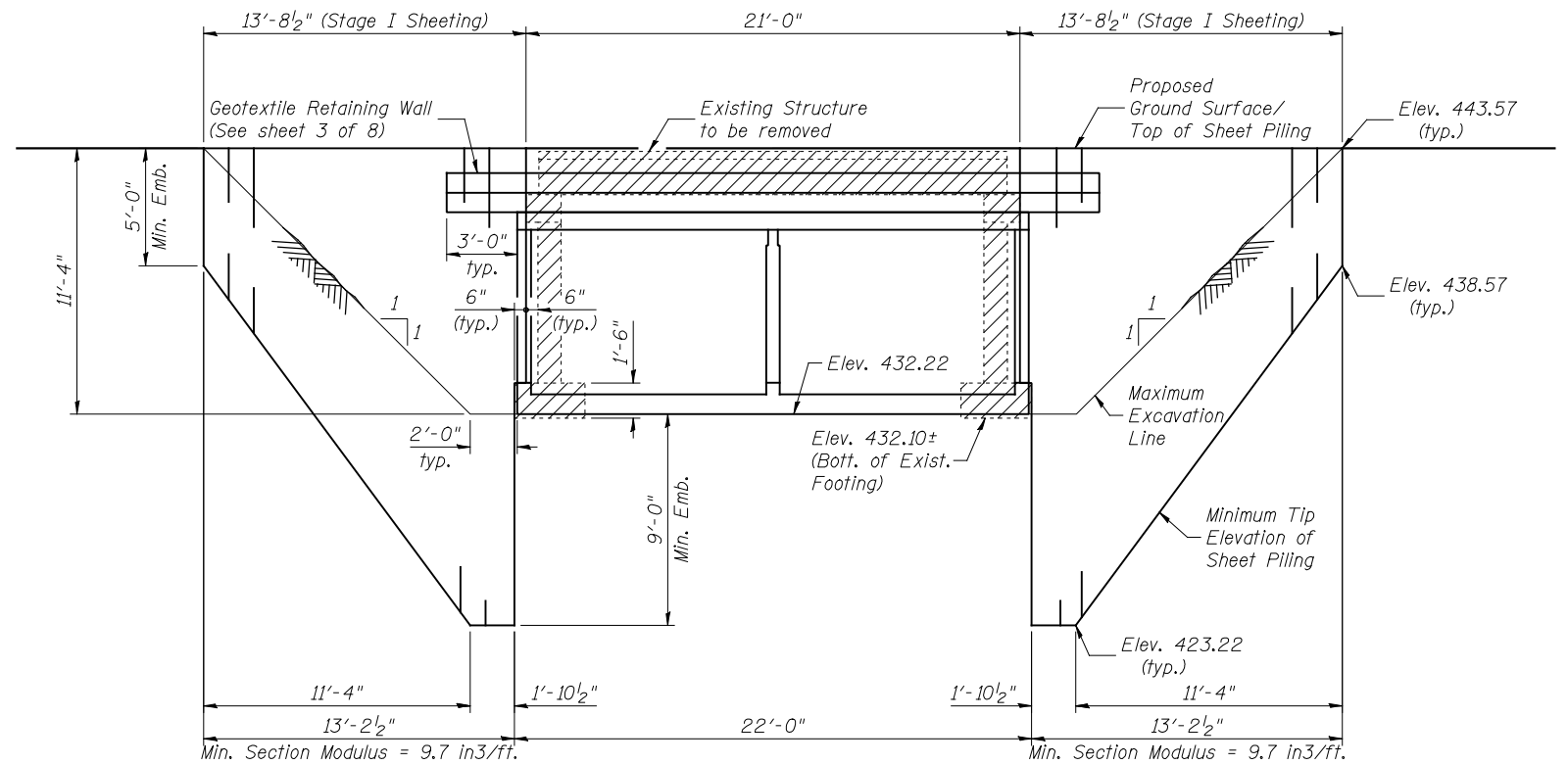


STAGE II REMOVAL



STAGE II CONSTRUCTION

Notes:
Hatched area indicates Removal of Existing Structures.
Removal of existing railing is included with Removal of Existing Structures.
For quantity and location of Temporary Concrete Barrier, see Roadway Plans.



TEMPORARY SHEET PILING DETAILS
(Looking Downstream)

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

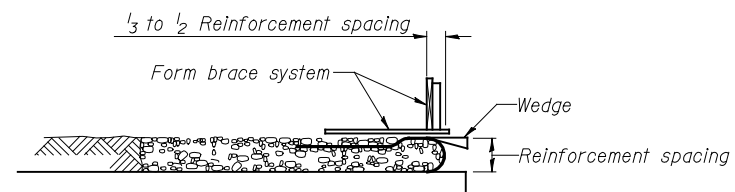
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 SAVE DATE: 6/19/2013

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... \0822046-76E21-002-stageconstr.dgn		CHECKED - PGM	REVISED -
	PLOT SCALE =	DRAWN - P. Ray	REVISED -
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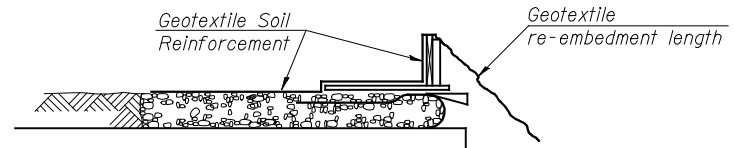
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION & TEMPORARY SHEET PILING
STRUCTURE NO. 082-2046
SHEET NO. 2 OF 8 SHEETS

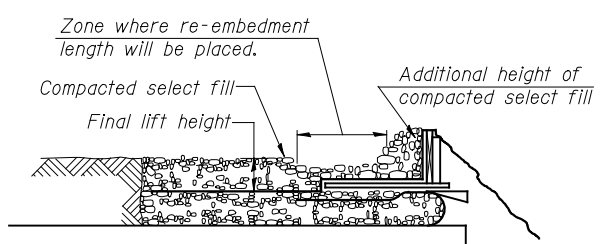
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	23BR-1	ST. CLAIR	38	21
STA. 674+45		CONTRACT NO. 76E21		
ILLINOIS FED. AID PROJECT				



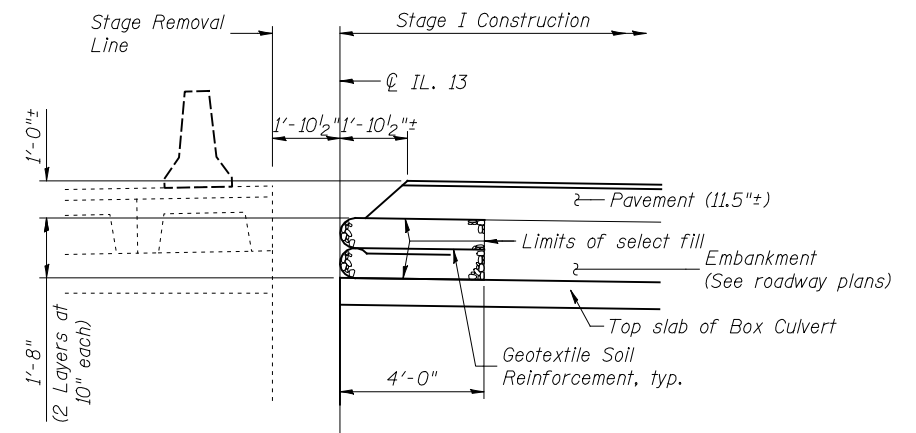
1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of $\frac{1}{3}$ to $\frac{1}{2}$ the geotextile reinforcement spacing.



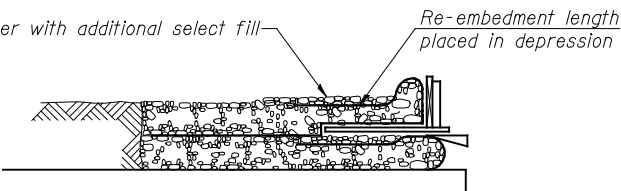
2. Position fabric so that the required geotextile re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.



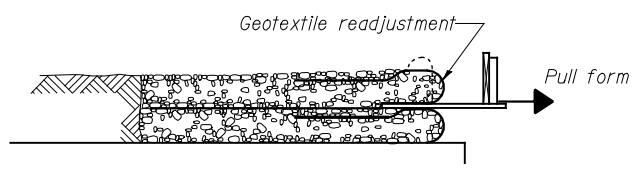
3. Compact select fill material in lifts to final lift height, create ($\pm 3''$) depression in zone where re-embedment length will be located and place additional height of compacted select fill against form brace.



GEOTEXTILE RETAINING WALL DETAIL



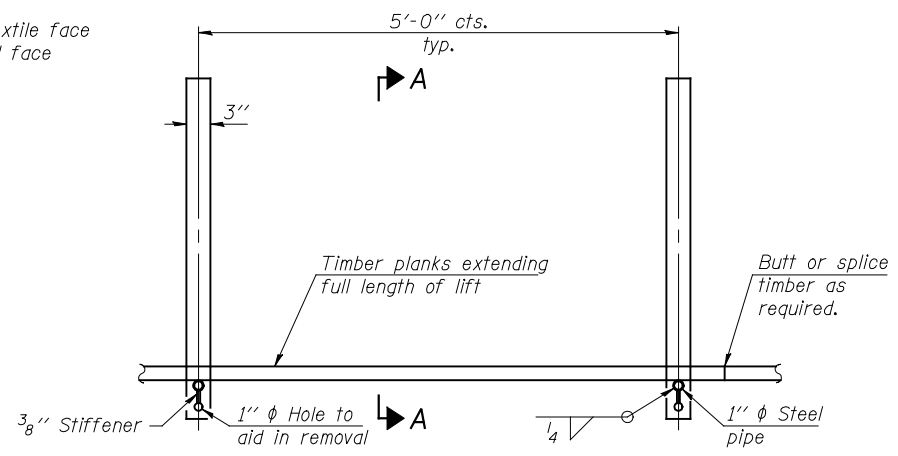
4. Fold geotextile re-embedment length back over form brace into zone where depression was made in select fill and place additional select fill ($\pm 3''$) to embed geotextile and bring to final lift height.



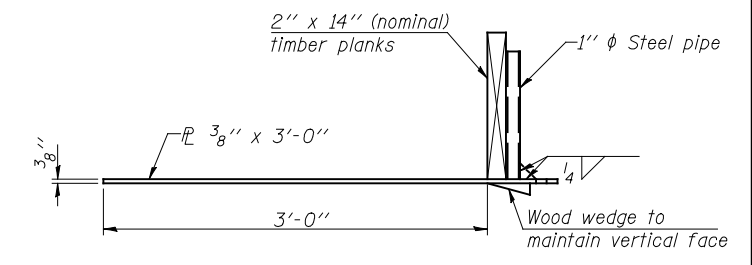
5. Pull form brace outward allowing geotextile face to slightly readjust to form tight round face level with plan reinforcement spacing.

GEOTEXTILE WALL CONSTRUCTION SEQUENCE

Note:
The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of 6 lb./in. as determined by the procedure described in the Special Provision. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.



PLAN



SECTION A-A

GEOTEXTILE FORM BRACE DETAIL

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

FILE: J:\INDO\10219 IL 13 MorrissocPh2\1-RCBC\0822046-76E21-003-retainwall.dgn SAVE DATE: 6/19/2013

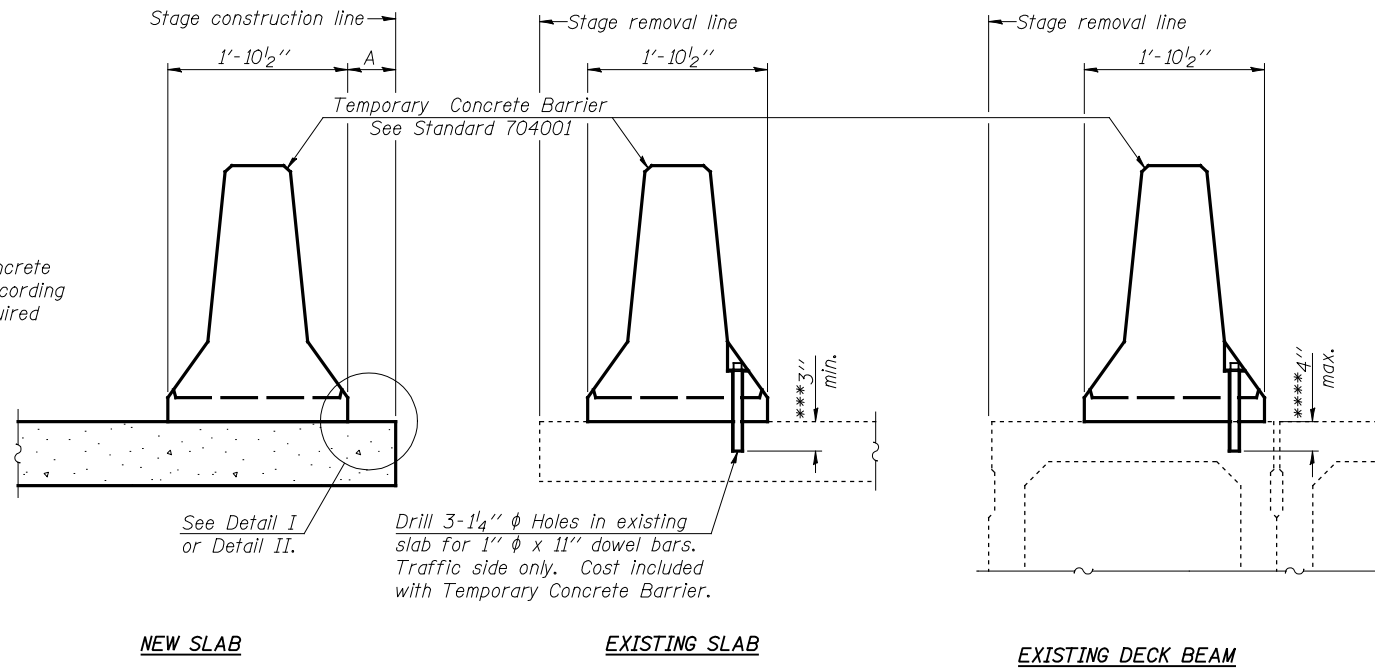
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	PLOT DATE = 06/28/2013 16:47:31	CHECKED - DCD	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GEOTEXTILE RETAINING WALL
STRUCTURE NO. 082-2046**
SHEET NO. 3 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	23BR-1	ST. CLAIR	38	22
STA. 674+45		CONTRACT NO. 76E21		
ILLINOIS FED. AID PROJECT				

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



SECTIONS THRU SLAB OR DECK BEAM

NOTES

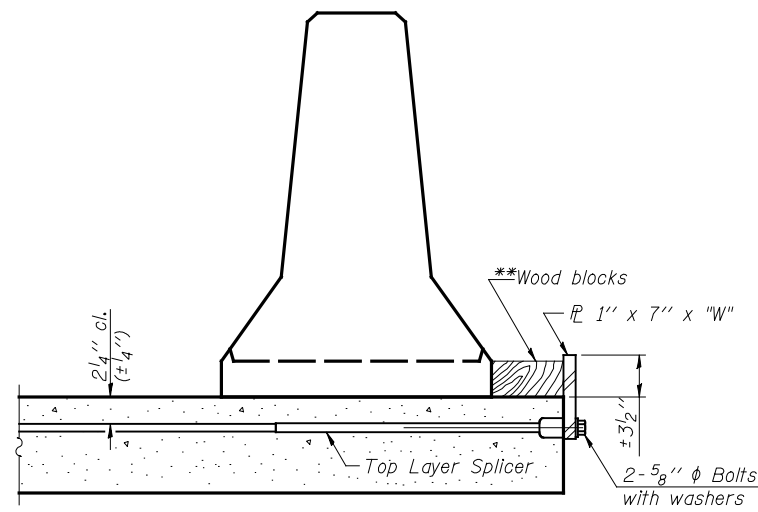
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.

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

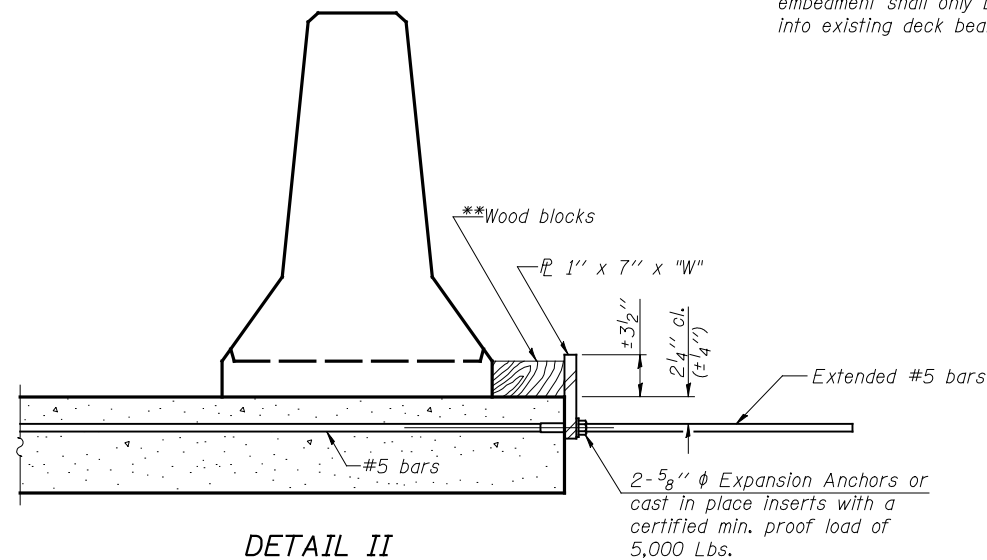
Cost of anchorage is included with Temporary Concrete Barrier.
The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

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

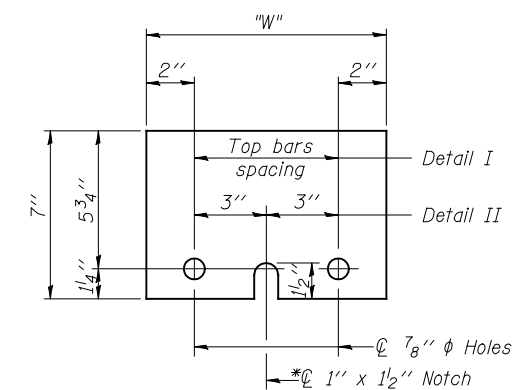
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1" x 7" x "W"

* Required only with Detail II

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

"W" = Top bars spacing + 4"

FILE: J:\INDO\10219 IL_0822046-76E21-004-tempbarrier.dgn

R-27 7-1-10

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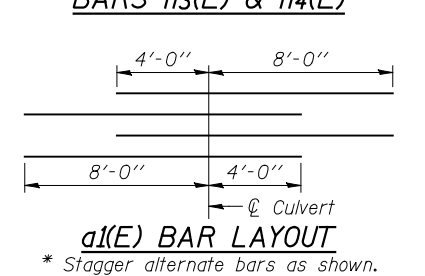
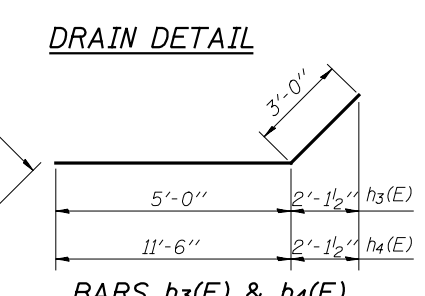
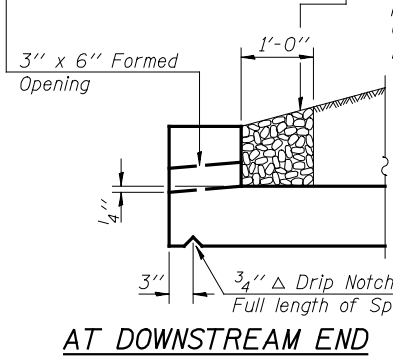
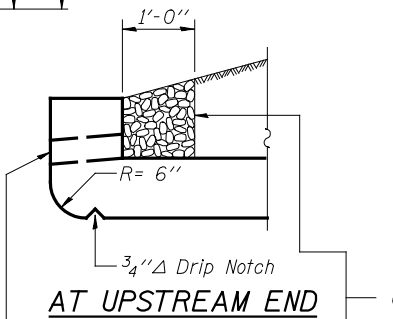
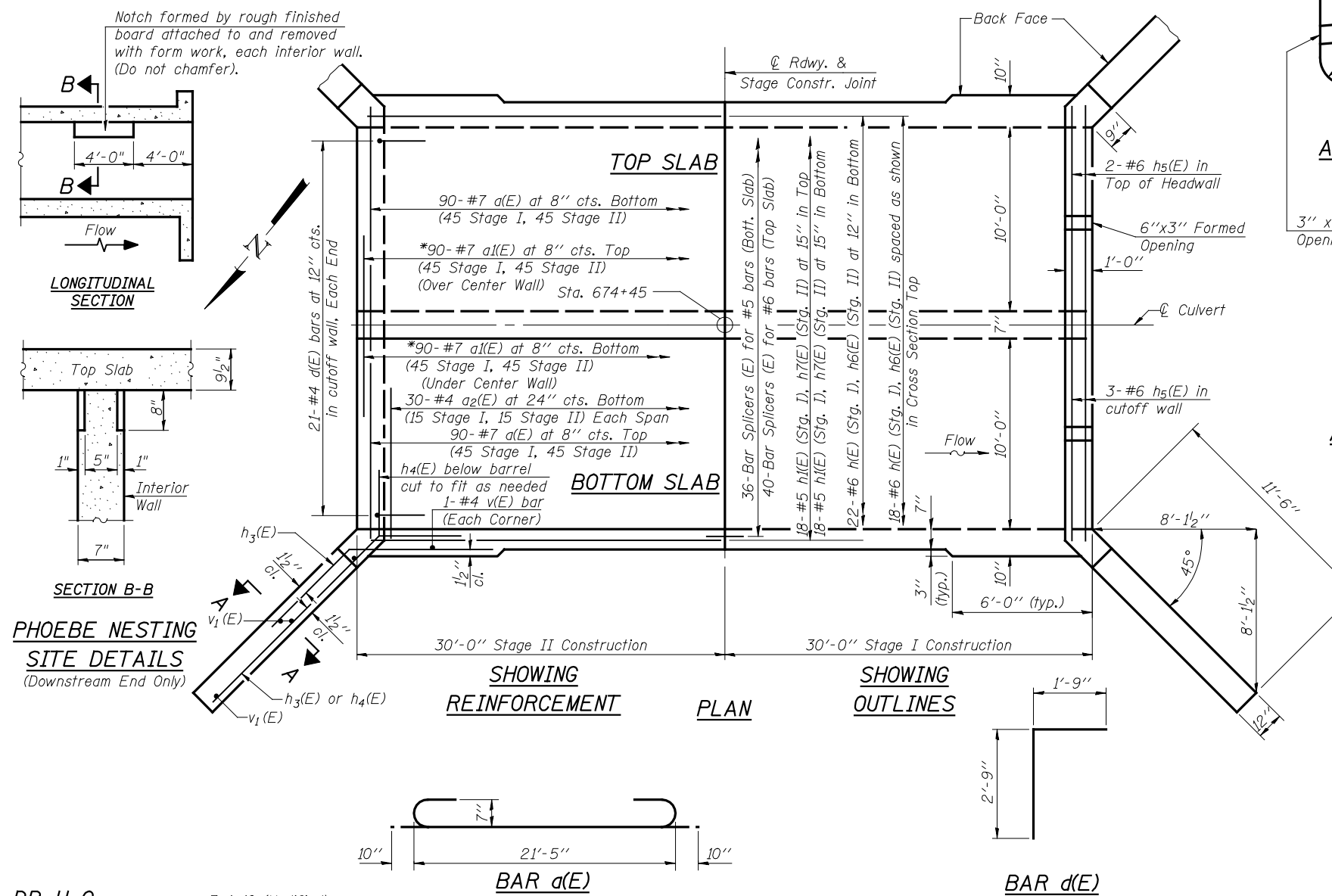
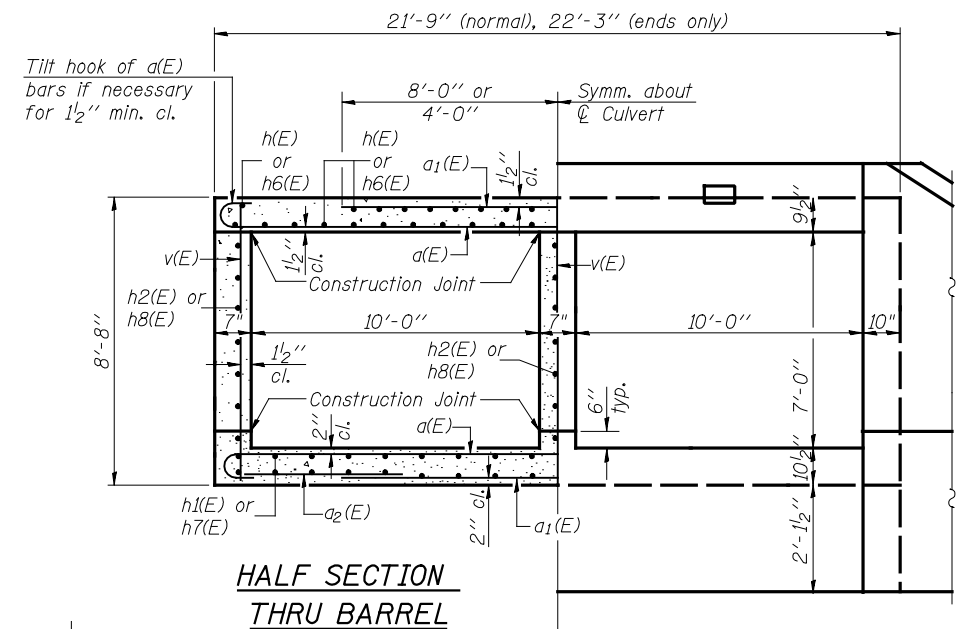
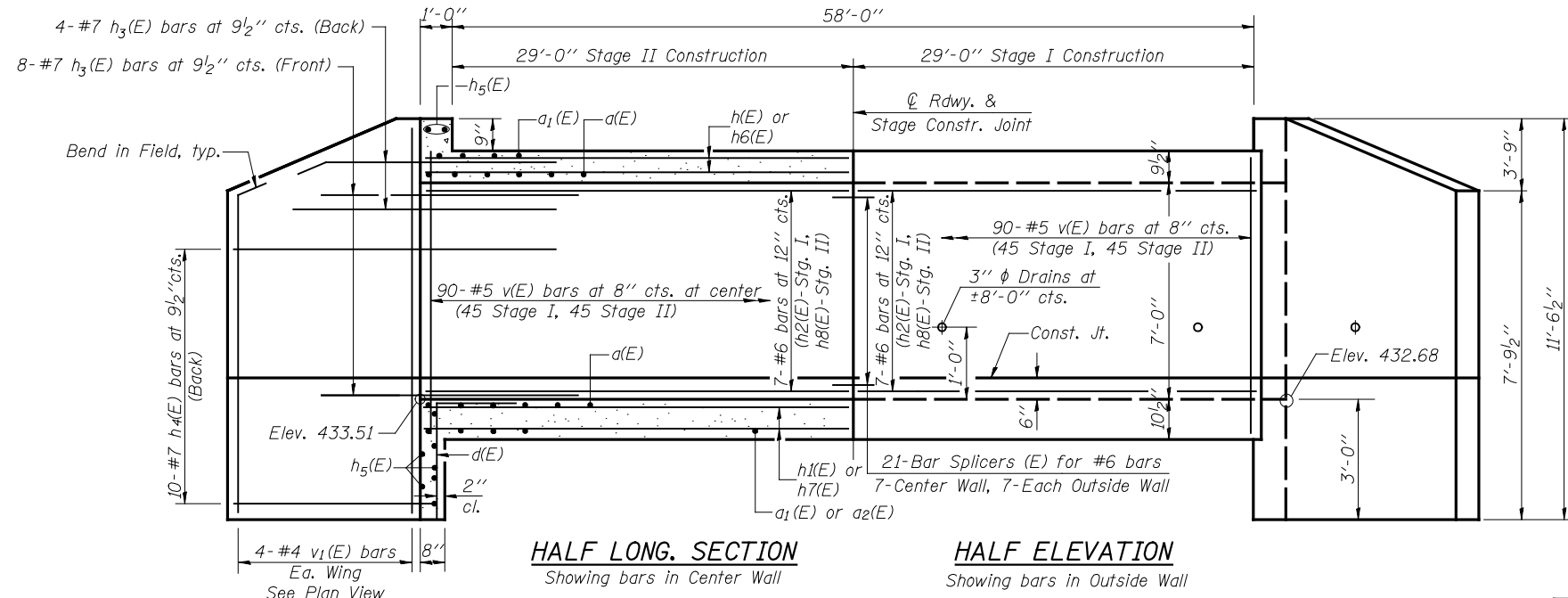
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 082-2046**

SHEET NO. 4 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	23BR-1	ST. CLAIR	38	23
STA. 674+45		CONTRACT NO. 76E21		
ILLINOIS FED. AID PROJECT				



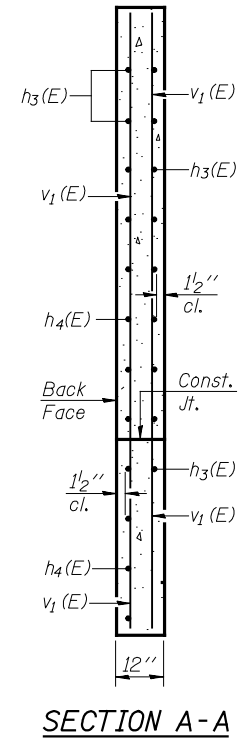


MINIMUM BAR LAP
a2(E) #4 bar = 2'-1"

Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	180	#7	23'-1"	
a1(E)	180	#7	12'-0"	
a2(E)	60	#4	8'-8"	
d(E)	42	#4	4'-6"	
h(E)	40	#6	29'-8"	
h1(E)	36	#5	29'-8"	
h2(E)	21	#6	29'-8"	
h3(E)	48	#7	8'-0"	
h4(E)	40	#7	14'-6"	
h5(E)	10	#6	21'-2"	
h6(E)	40	#6	29'-8"	
h7(E)	36	#5	29'-8"	
h8(E)	21	#6	29'-8"	
v(E)	274	#5	8'-3"	
v1(E)	16	#4	11'-2"	
Concrete Box Culverts			Cu. Yd.	129.3
Reinforcement Bars, Epoxy Coated			Pound	25810



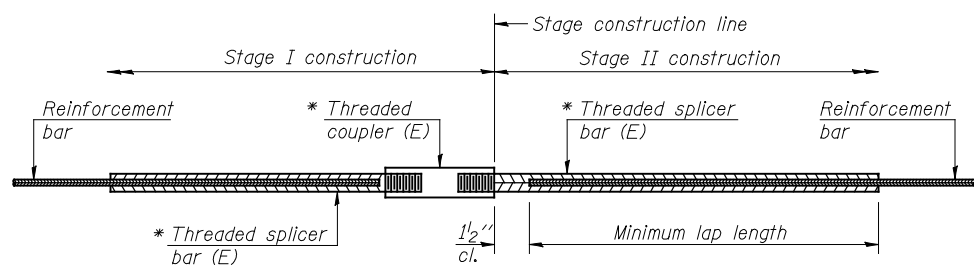
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 DB-H-0 7-1-10 (Modified)
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 CHECKED - DCD
 DESIGNED - DCD
 CHECKED - PGM
 REVISIONS:
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BOX CULVERT DETAILS
STRUCTURE NO. 082-2046**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	23BR-1	ST. CLAIR	38	24
STA. 674+45		CONTRACT NO. 76E21		
ILLINOIS FED. AID PROJECT				

SHEET NO. 5 OF 8 SHEETS



STANDARD BAR SPLICER ASSEMBLY

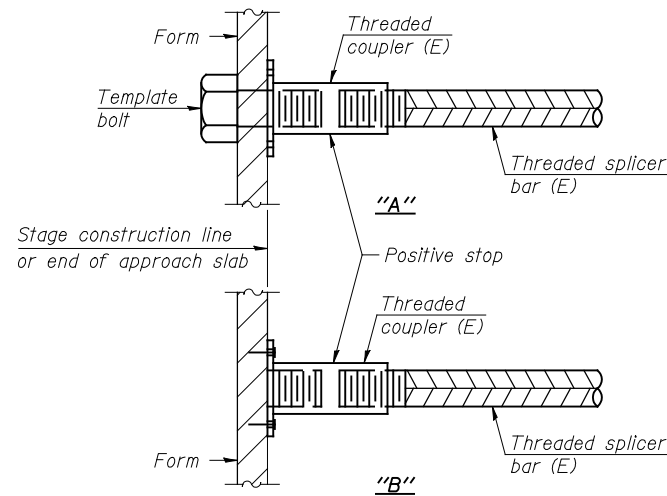
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

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

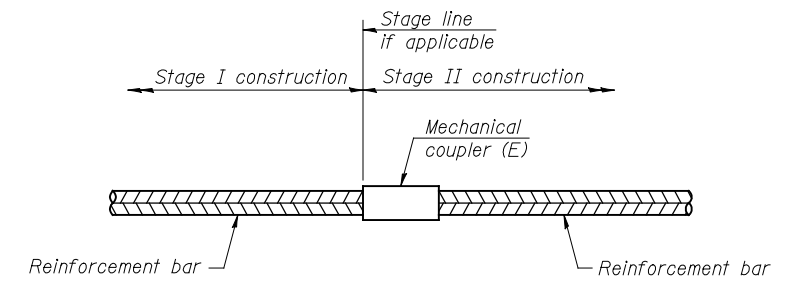
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Top Slab	#6	40	3
Bot. Slab	#5	36	3
Walls	#6	21	3



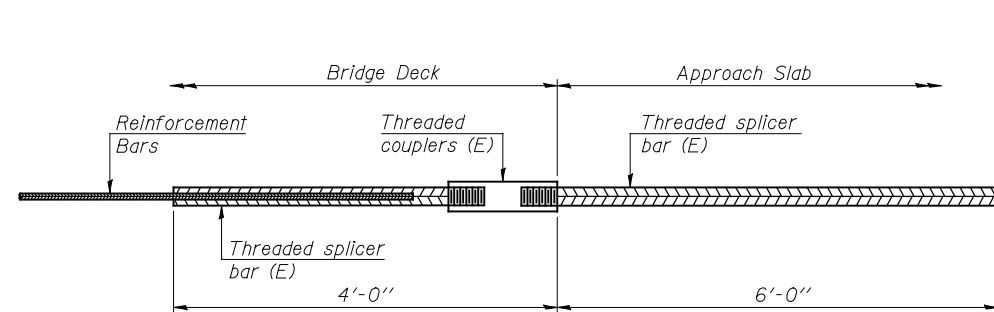
INSTALLATION AND SETTING METHODS

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



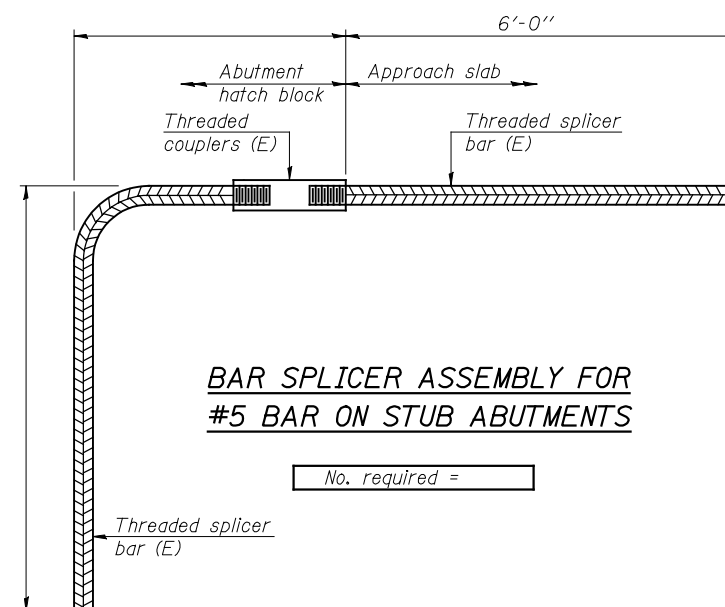
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

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

FILE: J:\D0100219 IL 13 Mar15sc-Pr2\1-RCBC\0822046-76E21-006-Bar-Splicer.dgn
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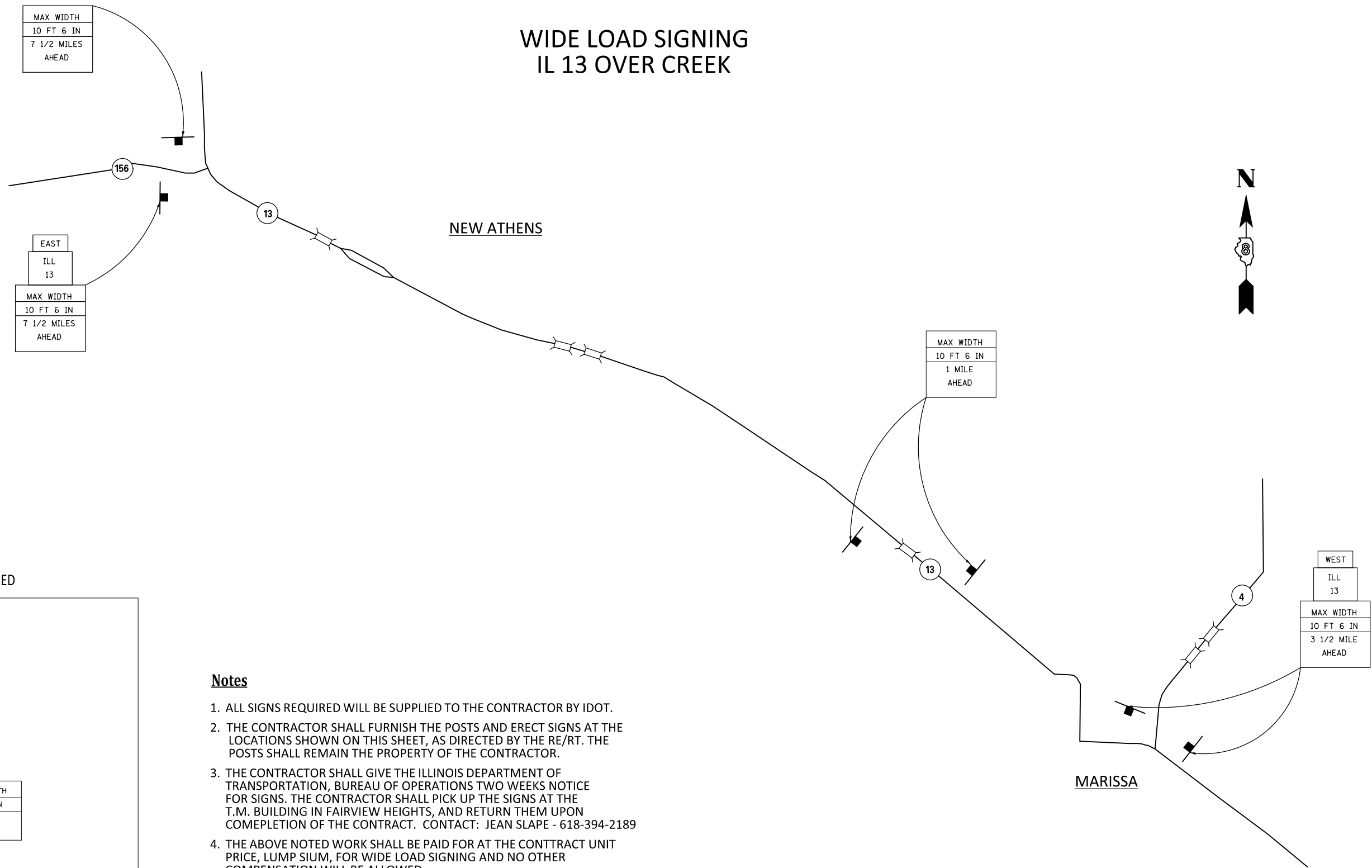
BSD-1

1-27-12

FILE NAME =	USER NAME = DCD	DESIGNED - DCD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 082-2046	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
... \0822046-76E21-006-Bar-Splicer.dgn		CHECKED -	REVISED -			103	23BR-1	ST. CLAIR	38	25
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PLOT DATE = 06/28/2013 16:47:41		CHECKED - DCD	REVISED -			SHEET NO. 6 OF 8 SHEETS				

ILLINOIS FED. AID PROJECT

WIDE LOAD SIGNING IL 13 OVER CREEK



SIGNS REQUIRED

- (1) - EAST
- (2) - WEST
- (3) - ILL
13
- (2) - MAX WIDTH
10 FT 6 IN
1 MILE
AHEAD
- (2) - MAX WIDTH
10 FT 6 IN
3 1/2 MILES
AHEAD
- (2) - MAX WIDTH
10 FT 6 IN
7 1/2 MILES
AHEAD

Notes

1. ALL SIGNS REQUIRED WILL BE SUPPLIED TO THE CONTRACTOR BY IDOT.
2. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE RE/RT. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL GIVE THE ILLINOIS DEPARTMENT OF TRANSPORTATION, BUREAU OF OPERATIONS TWO WEEKS NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE T.M. BUILDING IN FAIRVIEW HEIGHTS, AND RETURN THEM UPON COMEPLTION OF THE CONTRACT. CONTACT: JEAN SLAPE - 618-394-2189
4. THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTTACT UNIT PRICE, LUMP SIUM, FOR WIDE LOAD SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED.
5. SIGN SPACING WILL BE 400' OR TO FIT FIELD CONDITIONS.
6. THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 6'.

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIDE LOAD SIGNING DETAIL	F.A.P. RTE. 103	SECTION 23BR-1	COUNTY ST. CLAIR	TOTAL SHEETS 38	SHEET NO. 28
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	PLOT DATE = *DATE*	DATE -	REVISED -							



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 2/22/12

ROUTE FAP 103 DESCRIPTION IL 13 over Unnamed Creek LOGGED BY AMI (TSI)

SECTION 23BR-1 LOCATION NE 1/4, SEC. 17, TWP. 3s, RNG. 6W, 3 PM

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic SPT

STRUCT. NO. 082-0283 (E) / 082-2046 (P)
Station 674+45
BORING NO. B-2 Upstream
Station 674+10
Offset 11.00ft LT
Ground Surface Elev. 443.4 ft

SOIL DESCRIPTION	DEPTH (ft)	BLOWS (/6")	UNCONSOLIDATED SOIL TEST (tsf)	MOISTURE (%)	UCS FAILURE MODE
Asphalt and Concrete Pavement	441.9				
Dark Brown (Soft, Moist) SILT with Trace Fine Gravel and Sand (Fill)	1	0.41	25		
	1	B			
	1	0.24	29		
	2	B			
Dark Gray to Brown (Very Soft, Moist) Silty CLAY with Trace Fine Sand and Decayed Organics (Fill)	1	0.21	30		
	1	B			
Gray to Brown (Stiff, Moist) CLAY Trace Decayed Organics and Gravel (Alluvium)	2	2.24	22		
	3	B			
	5	B			
	1				
	2	2.45	20		
	5	S			
	2				
	3	1.29	22		
	3	B			
	1				
	3	3.21	20		
	6	B			
Trace Fine Sand, Very Stiff	4				
	5	3.35	20		
	7	B			
	-20				

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 T206)
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 2/22/12

ROUTE FAP 103 DESCRIPTION IL 13 over Unnamed Creek LOGGED BY AMI (TSI)

SECTION 23BR-1 LOCATION NE 1/4, SEC. 17, TWP. 3s, RNG. 6W, 3 PM

COUNTY St. Clair DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic SPT

STRUCT. NO. 082-0283 (E) / 082-2046 (P)
Station 674+45
BORING NO. B-2 Upstream
Station 674+10
Offset 11.00ft LT
Ground Surface Elev. 443.4 ft

SOIL DESCRIPTION	DEPTH (ft)	BLOWS (/6")	UNCONSOLIDATED SOIL TEST (tsf)	MOISTURE (%)	UCS FAILURE MODE
Dark Gray (Very Dense, Dry) Weathered SHALE (continued)					
Trace Gravel, Friable	48				
	50/0"	NC	8		
Auger Refusal - END OF BORING					

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 T206)
BBS, from 137 (Rev. 8-99)

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SAVE DATE: 6/19/2013

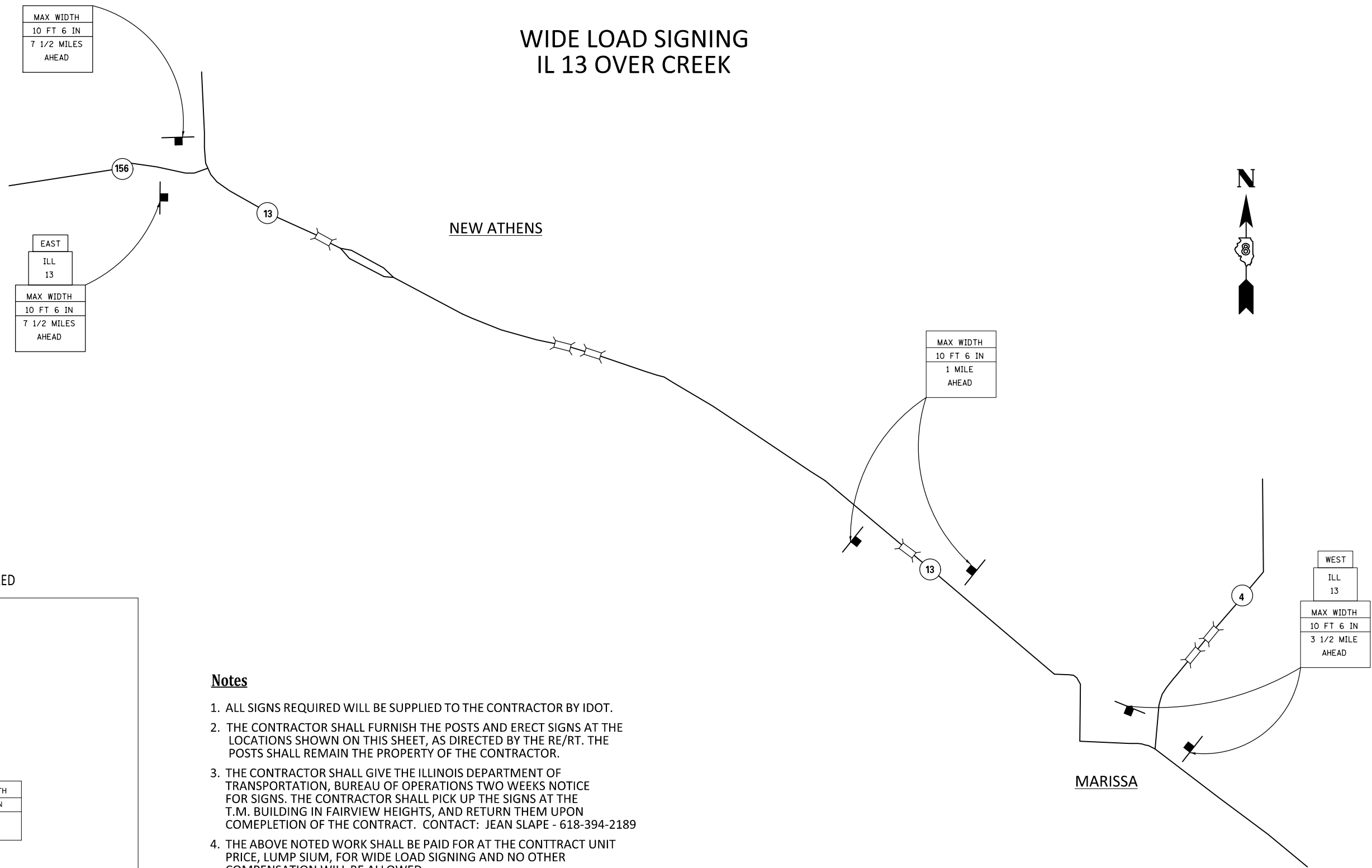
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... \0822046-76E21-008-BorIngs.dgn		CHECKED -	REVISED -
PLOT SCALE =		DRAWN - P. Ray	REVISED -
PLOT DATE = 06/28/2013 16:47:49		CHECKED - DCD	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
STRUCTURE NO. 082-2046
SHEET NO. 8 OF 8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
103	23BR-1	ST. CLAIR	38	27
STA. 674+45		CONTRACT NO. 76E21		
ILLINOIS FED. AID PROJECT				

WIDE LOAD SIGNING IL 13 OVER CREEK



SIGNS REQUIRED

(1) - EAST

(2) - WEST

(3) - ILL
13

(2) - MAX WIDTH
10 FT 6 IN
1 MILE
AHEAD

(2) - MAX WIDTH
10 FT 6 IN
3 1/2 MILES
AHEAD

(2) - MAX WIDTH
10 FT 6 IN
7 1/2 MILES
AHEAD

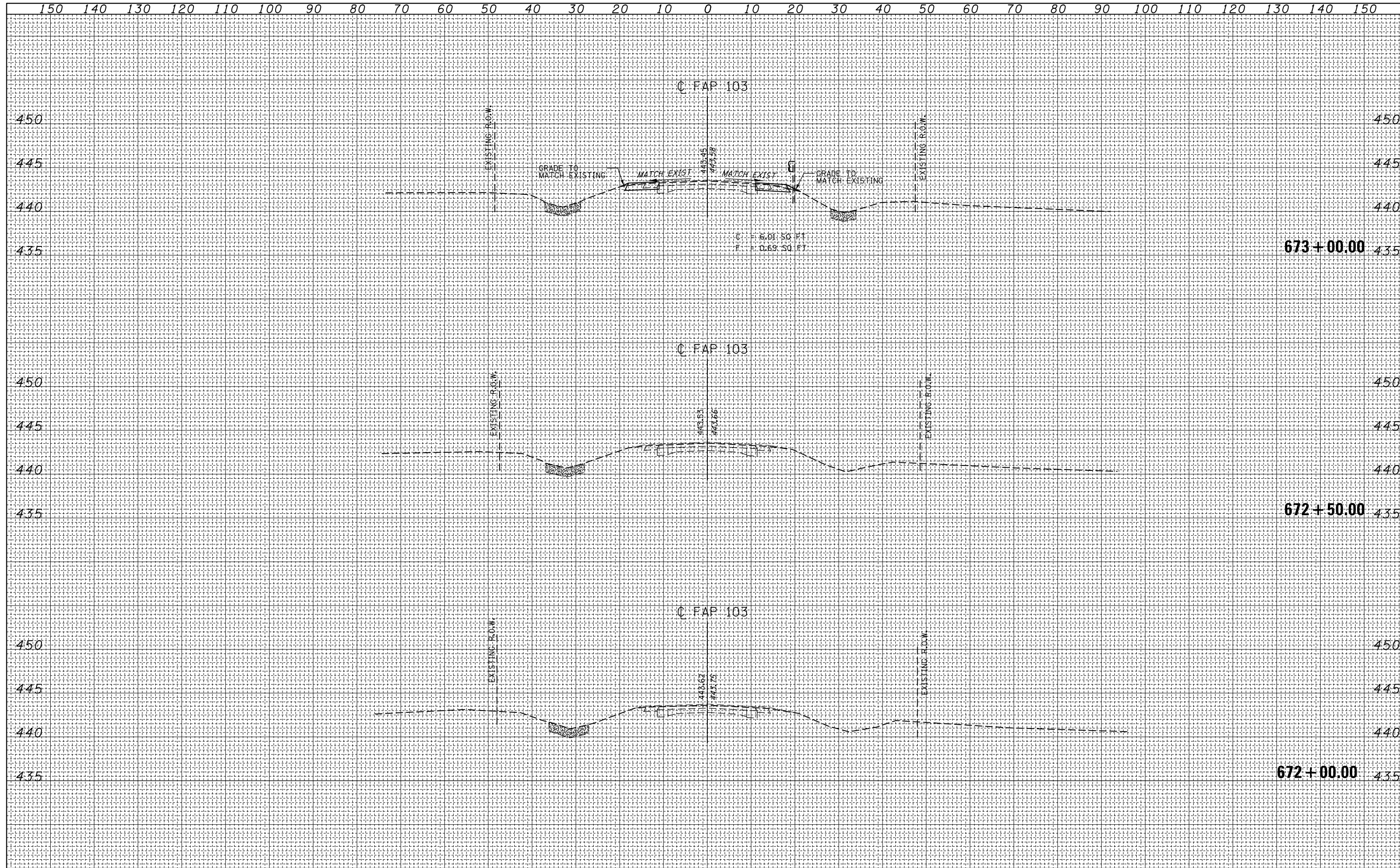
Notes

1. ALL SIGNS REQUIRED WILL BE SUPPLIED TO THE CONTRACTOR BY IDOT.
2. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AS DIRECTED BY THE RE/RT. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
3. THE CONTRACTOR SHALL GIVE THE ILLINOIS DEPARTMENT OF TRANSPORTATION, BUREAU OF OPERATIONS TWO WEEKS NOTICE FOR SIGNS. THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE T.M. BUILDING IN FAIRVIEW HEIGHTS, AND RETURN THEM UPON COMEPLTION OF THE CONTRACT. CONTACT: JEAN SLAPE - 618-394-2189
4. THE ABOVE NOTED WORK SHALL BE PAID FOR AT THE CONTTACT UNIT PRICE, LUMP SIUM, FOR WIDE LOAD SIGNING AND NO OTHER COMPENSATION WILL BE ALLOWED.
5. SIGN SPACING WILL BE 400' OR TO FIT FIELD CONDITIONS.
6. THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 6'.

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WIDE LOAD SIGNING DETAIL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = *SCALE*	DRAWN -	REVISED -			103	23BR-1	ST. CLAIR	38	28
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		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

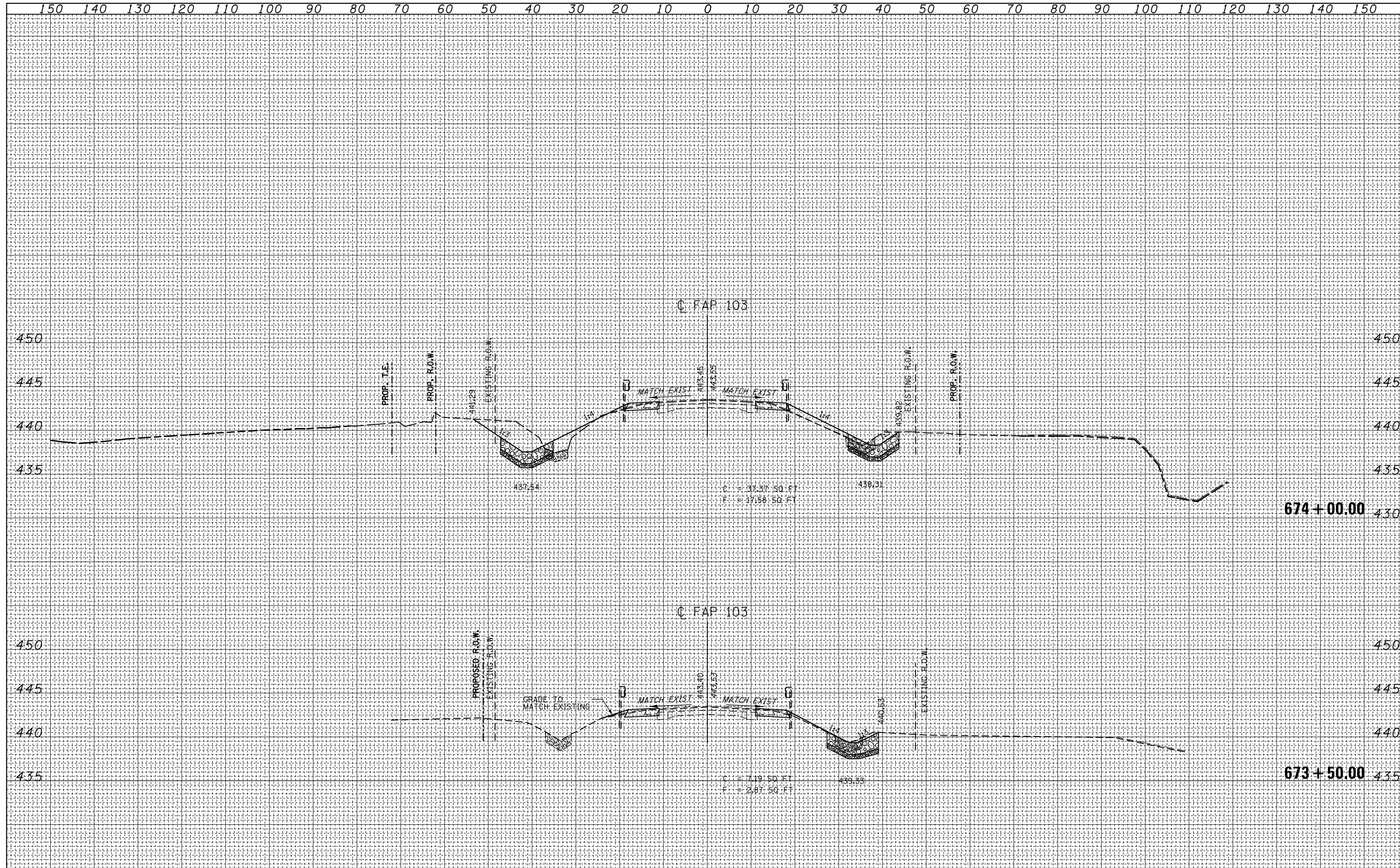
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BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

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



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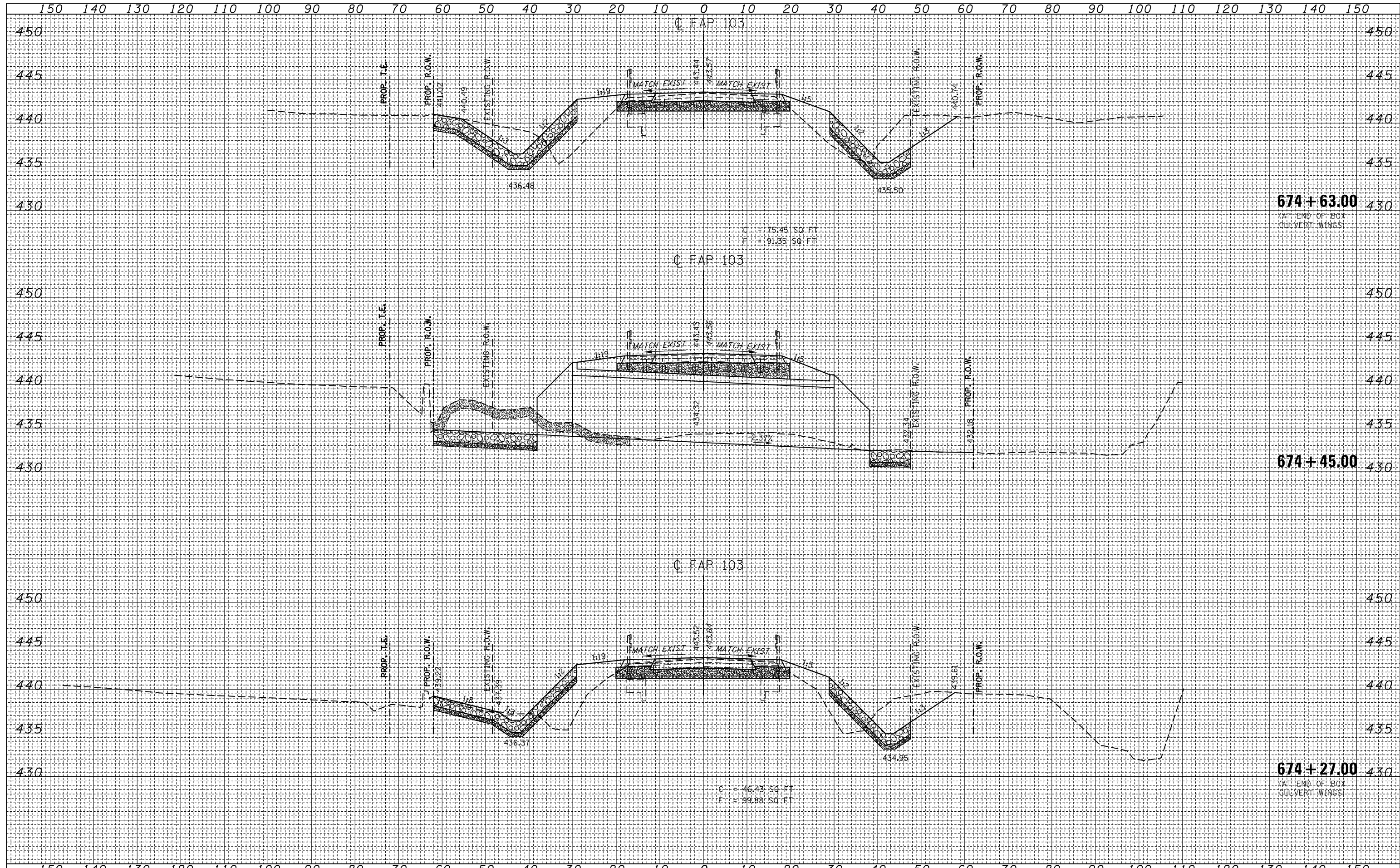
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SURVEYED	
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TEMPLATE	
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AREAS CHECKED	
NO.	



FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 13 CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL		DRAWN -	REVISED -					103	23BR-I	ST. CLAIR	38	30
		CHECKED -	REVISED -					CONTRACT NO. 76E21				
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO.	OF	SHEETS	STA. 673+50.00	TO STA. 674+00.00			

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

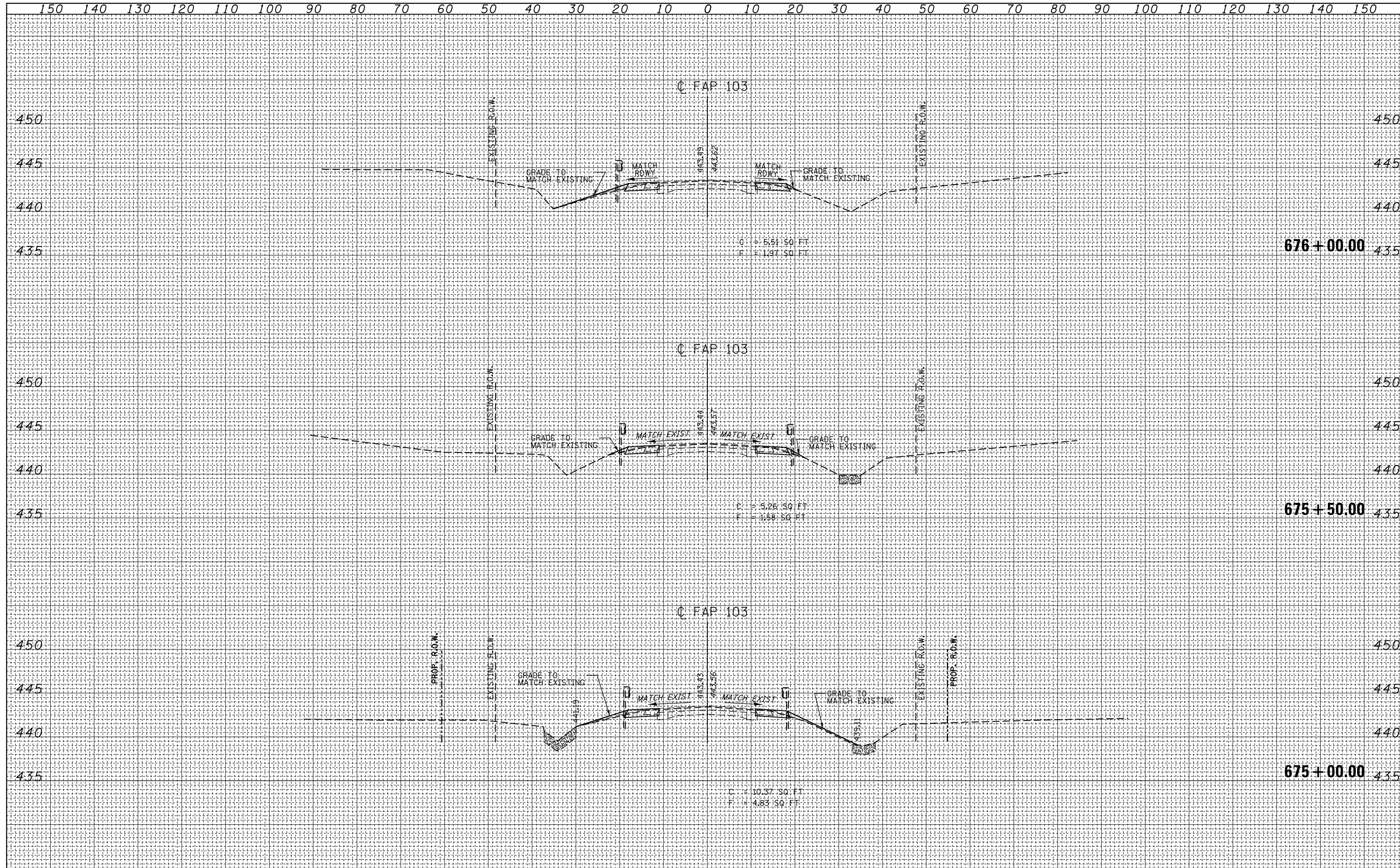
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BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 13 CROSS SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL		DRAWN -	REVISED -					103	23BR-I	ST. CLAIR	38	31
		CHECKED -	REVISED -					CONTRACT NO. 76E21				
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				
					SCALE:	SHEET NO.	OF	SHEETS	STA. 674+27.00	TO STA. 674+63.00		

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

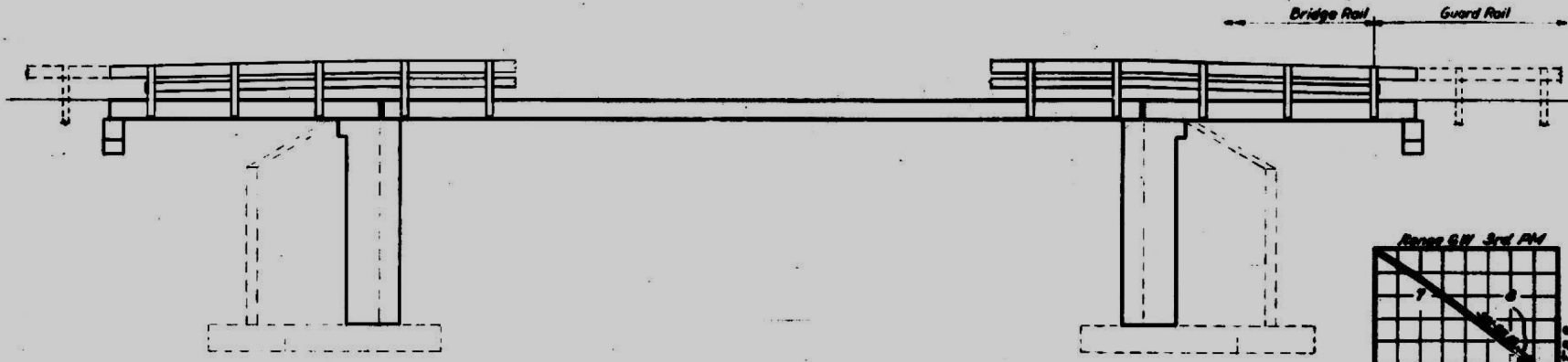
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BY	
SURVEYED	
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TEMPLATE	
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NOTE BOOK	
NO.	



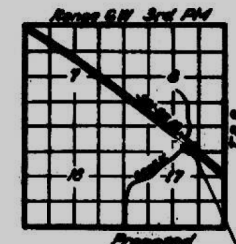
Built as SBI RT.13, Section 29, Sta. 674+95, Year 1924
 Existing Structure - RC Slab on Closed Abutments
 Superstructure 20'-0" long, 32'-2" Wide
 Replace R.C. Slab using Stage Construction to maintain one lane traffic at all times.
 No temporary Bridge required.

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

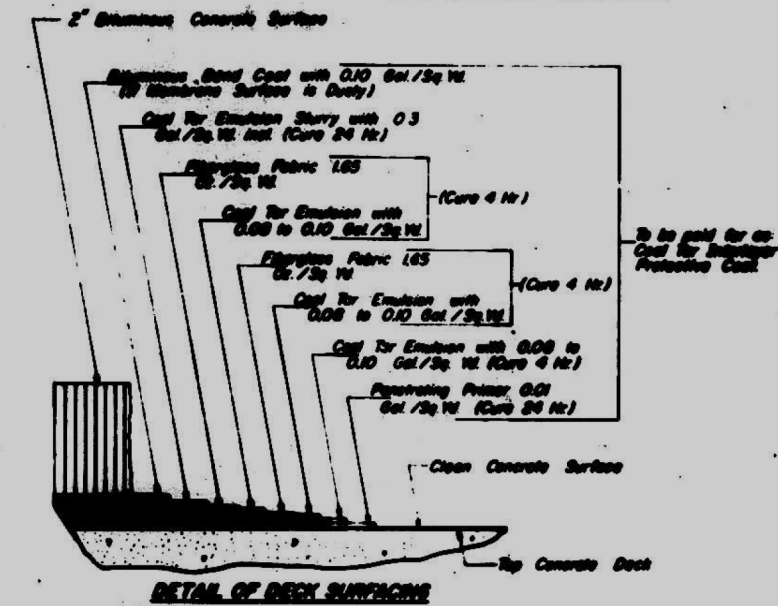
DATE	BY	CHKD	APP	SHEET NO.
10/15	J.P.	J.P.		5
				OF 5 SHEETS



ELEVATION



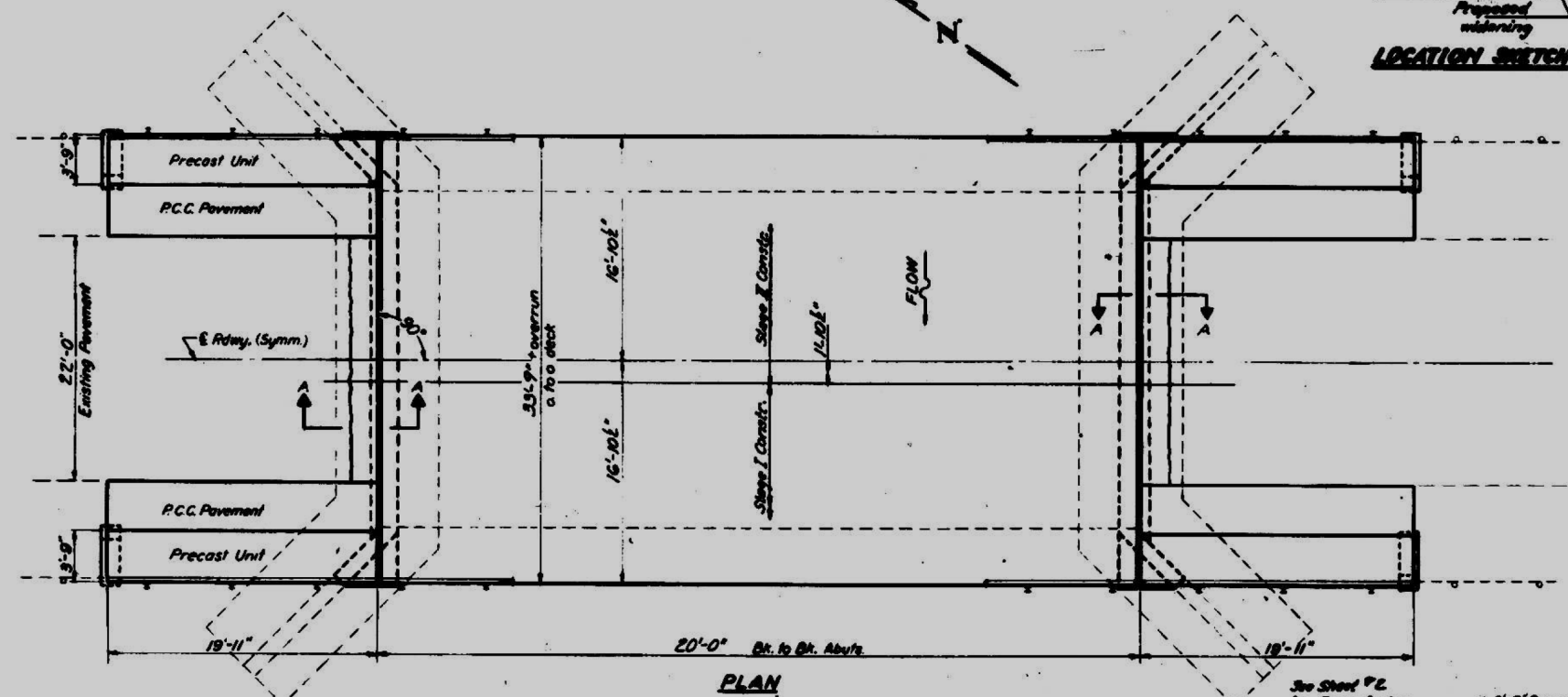
LOCATION SKETCH



DETAIL OF DECK SURFACING

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
 It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.
 Limits of Cool Tar Interlayer Protective Coat shall be flush to back of abutments.
 Expansion bolts shall consist of self drilling expansion shields and 1/4" hooked bolts. Hooked bolts shall extend a minimum of 12" into new concrete unless otherwise shown.
 Shoulder transition to wingwall shall be shaped with broken concrete. Cost incidental.
 Any excavation shall be incidental to Bridge Contract.



PLAN

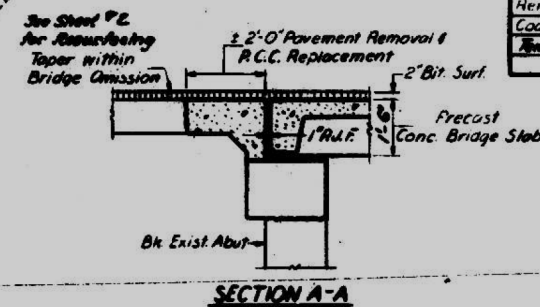
TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Portland Cement Concrete Pavement (10')	Sq Yds	17		17
Pavement Fabric	Sq Yds	17		17
Concrete Removal	Cu Yds	3.0		3.0
Expansion Bolts (1/4")	Each	52	48	96
Class X Concrete	Cu Yds	5.5		5.5
Precast Concrete Bridge Slab	Sq Ft	968		968
Pavement Removal & PCC Replacement Type 110	Sq Yds	10		10
Steel Mesh, Type W	Lbs. Ft	100		100
Reinforcement Bars	Lbs.	300		300
Removal of Existing Superstructures	L. Sum.	615		615
Cool Tar Interlayer Protective Coat	Sq Yds	25		25
Temporary Guard Rail	Lbs. Ft	20		20

DESIGNED: Simon (Signature)
 CHECKED: James (Signature)
 DRAWN: J.P.
 CHECKED: JP

DESIGN STRESSES
 FIELD UNITS: $f_c = 1400$ psi (super), $f_c = 1000$ psi (sub), $f_s = 20,000$ psi (tensile), $v_c = 75$ psi (flooring), $n = 10$
 PRECAST UNIT: $f_c = 4,500$ psi, $f_c = 1,800$ psi, $f_s = 20,000$ psi, $n = 8$

LIVE LOAD RATING = HS 20-44



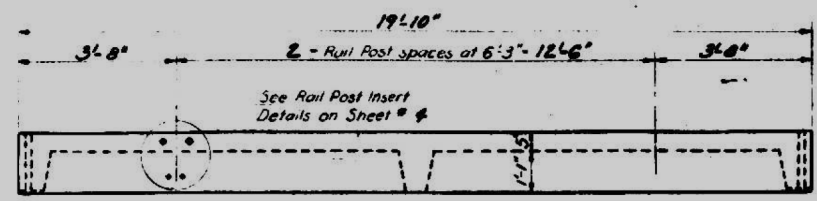
SECTION A-A

GENERAL PLAN & ELEVATION
 SHEET NO. 2
 ST. CLAIR COUNTY
 ILLINOIS

NOT TO SCALE - FOR INFORMATIONAL PURPOSES ONLY

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

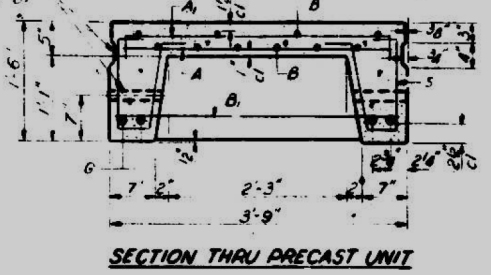
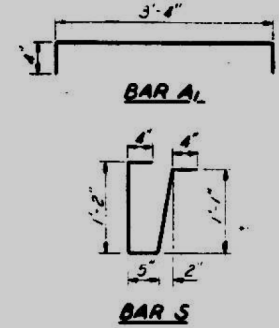
DATE	DESIGN	PROJECT	TOTAL SHEETS	SHEET NO.
11-15-68	SR-3	ST. CLAIR	11	5
5 SHEETS				



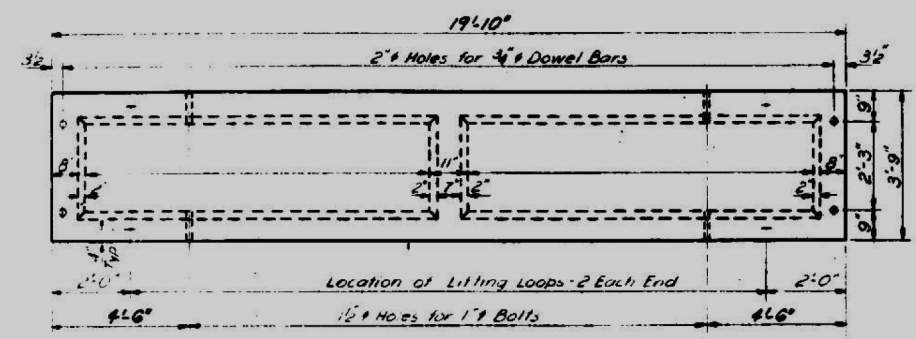
ELEVATION

BAR LIST - ONE UNIT
Reinforcement to be cast into slab

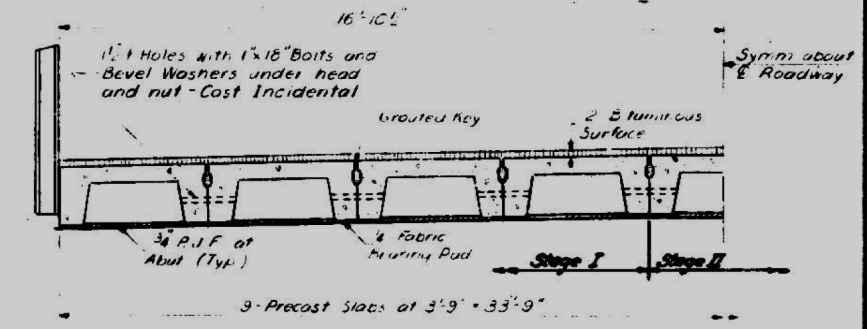
Bar	No	Size	Length	Shape
A	52	#4	3'-3"	—
A	27	#4	4'-0"	—
B	10	#4	18'-6"	—
B	6	#4	3'-6"	—
G	4	#10	18'-6"	—
S	#2	#3	3'-4"	U



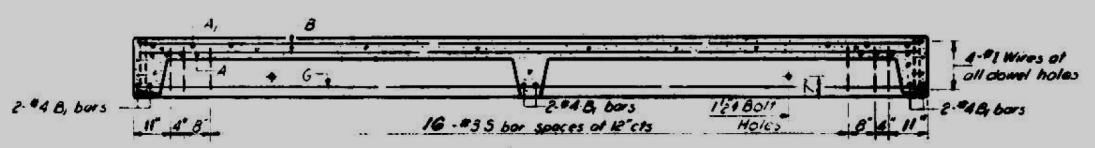
SECTION THRU PRECAST UNIT



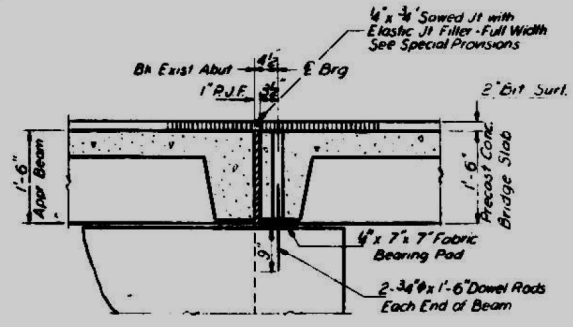
PLAN OF ONE UNIT



HALF CROSS SECTION
Looking North



LONGITUDINAL SECTION



SECTION THRU ABUT.
AT OUTSIDE BEAM

NOTES
Unless otherwise approved by the Engineer, lifting loops shall be 6" x 19 class wire rope with fiber core and shall have a minimum ultimate strength of 18,700 lbs. Loops shall be burned off after slab has been erected. Holes shall be drilled and anchor dowels grouted in place. Cast of reinforcement and accessories cast into the slab unit bearing pads, furnishing, drilling for, placing and grouting anchor dowels is included in Unit bid price for "Precast Concrete Bridge Slab".



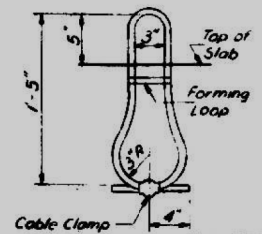
SLAB REINFORCEMENT

BILL OF MATERIAL

Item	Unit	Quantity
Precast Concrete Bridge Slab	Sq Ft	669
Removal of Existing Superstructure	L. Sum	0.59

DESIGNED: *James P. Jones*
CHECKED: *James P. Jones*
DRAWN: *R. P. Summer*
CHECKED: *JP*

EXAMINED: *[Signature]*
APPROVED: *[Signature]*



LIFTING LOOP DETAIL

STRESSES
f'c = 4,500 psi
f'c = 1,800 psi
f's = 20,000 psi
n = 8
LOADING HS-20

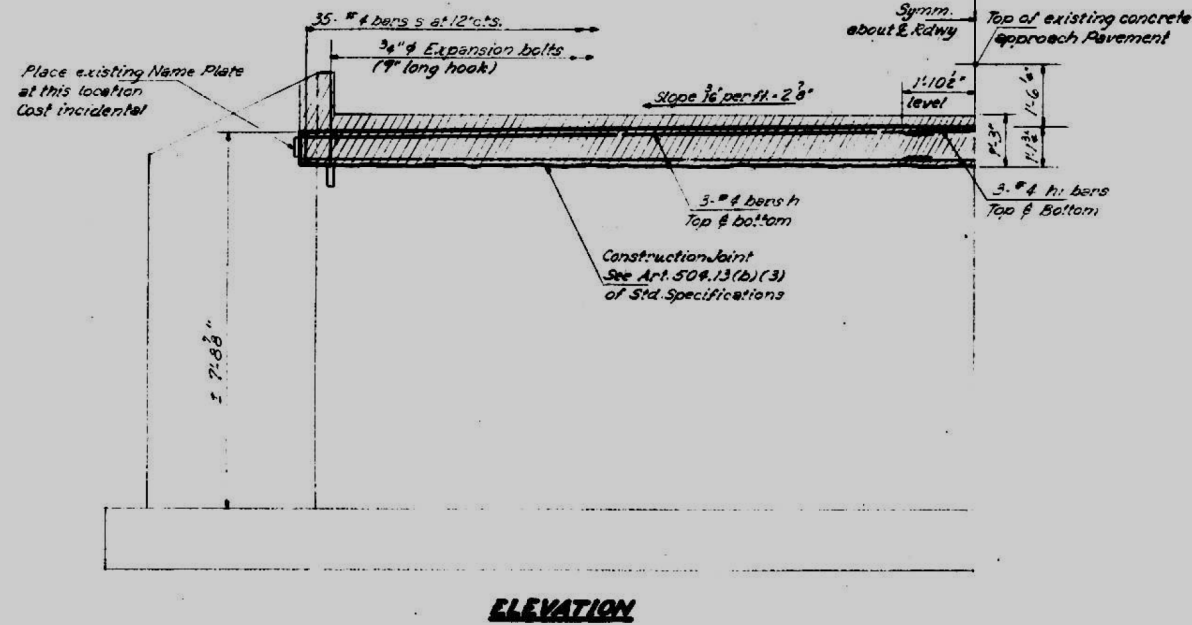
SUPERSTRUCTURE
SALTSVILLE, MISSOURI
ST. CLAIR COUNTY
SALTSVILLE

SR-3 15 Precast Units @ 20'lg

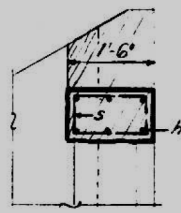
NOT TO SCALE - FOR INFORMATIONAL PURPOSES ONLY

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

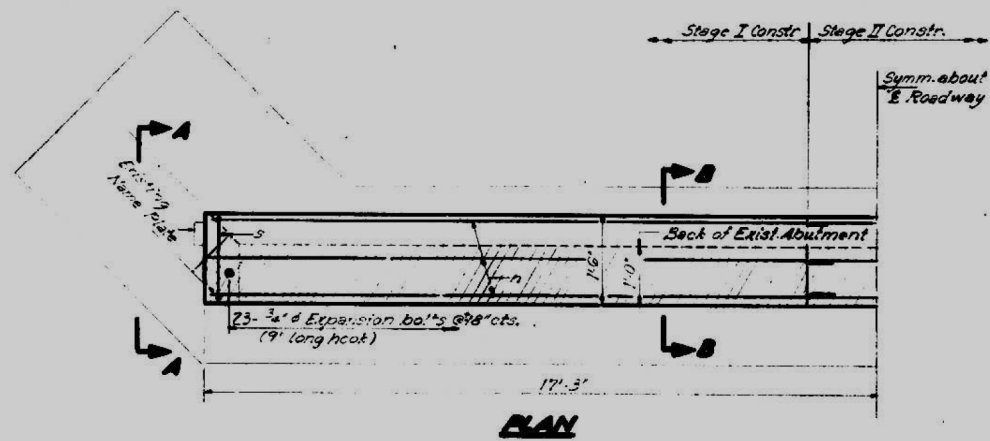
DATE	DESIGN	CHECK	SCALE	SHEET NO.
11-13	23BR-1	St. Clair	13	13
				5 SHEETS



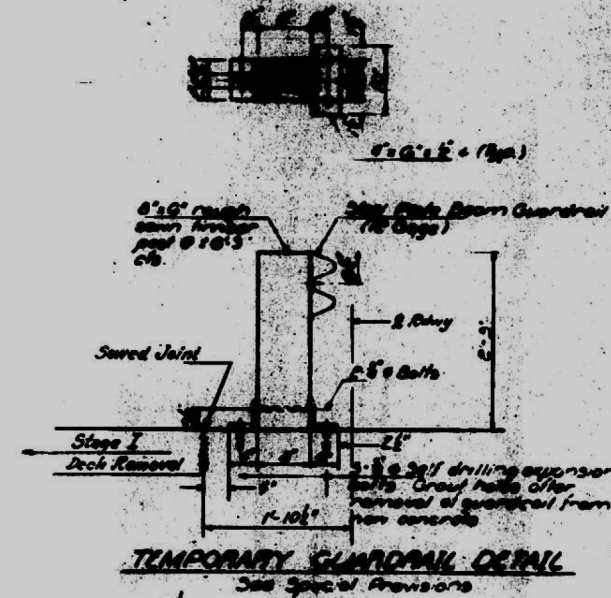
ELEVATION



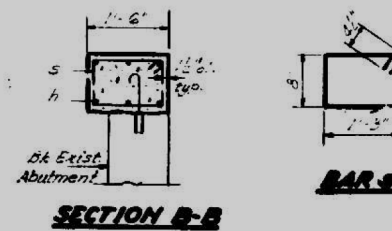
VIEW A-A



PLAN



TEMPORARY GUARDRAIL DETAIL
See Special Provisions



SECTION B-B

Notes:
Hatched area indicates Concrete to be removed. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction.
Expansion bolts shall be anchored in sound concrete.
All edges shall have standard 3/4 inch chamfers except as noted.

TWO ABUTMENTS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	12	#4	16'3"	
h1	12	#4	19'0"	
s	70	#4	4'7"	□
Class A Concrete Cu. Yds. 3.9				
Reinforcement Bars Lbs. 500				
Concrete Remove Cu. Yds. 3.0				
Expansion Bolts 1/2 Each #6				

ABUTMENTS
S.B. & R.H. SEC. 23 BR 2
ST. CLAIR COUNTY
STA. 679+65

DESIGNED: *Sam V. Tambi*
CHECKED: *James P. Lee*
DRAWN: *ustarik*
CHECKED: *JP*
EXAMINED: *[Signature]*
APPROVED: *[Signature]*
DATE: *DEC 4 1960*

NOT TO SCALE - FOR INFORMATIONAL PURPOSES ONLY

FILE NAME =	USER NAME = #USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS - NOT TO SCALE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -			103	23BR-1	ST. CLAIR	38	38	
		CHECKED -	REVISED -			CONTRACT NO. 76E21					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					