

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-2HB	ST. CLAIR	72	1
D-98-058-08			*72-2+7=77	

**FOR INDEX OF DRAWINGS AND HIGHWAY STANDARDS  
SEE SHEET NO. 2**

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS**

**PROPOSED  
HIGHWAY PLANS**

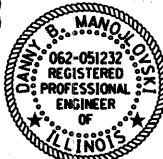
**F.A.P. ROUTE 998 (REL. I-70)  
SECTION 82-1-2HB  
RELOCATED I-70 OVER 1ST STREET  
ST. CLAIR COUNTY  
C-98-024-10**

**DESIGN DESIGNATIONS:**

EB I-70 32,980 (30) INTERSTATE 48.96(PCC-20)  
WB I-70 29,962 (30) INTERSTATE 48.96(PCC-20)  
1ST STREET 187 (30) LOCAL ROAD TF(PCC-20)

EB & WB I-70:  
DESIGN SPEED = 70 MPH  
POSTED SPEED = 50 MPH

1ST STREET:  
DESIGN SPEED = 30 MPH  
POSTED SPEED = 30 MPH



*Danny B. Manojlovski* 3/18/11  
DANNY B. MANOJLOVSKI DATE  
LICENSE EXPIRES 11/30/2011  
SHEET RANGE 1-26A & 61-72



*Oranit Pimsarn* 3/18/11  
ORANIT PIMSARN DATE  
LICENSE EXPIRES 11/30/2011  
SHEET RANGE 1-26A & 61-72

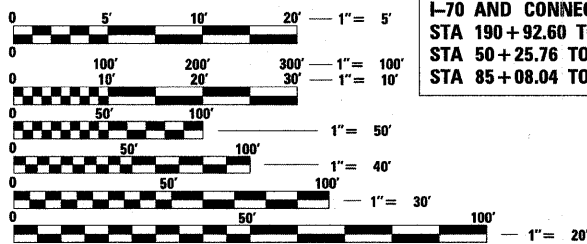


*William D. Stermer* 3/18/11  
WILLIAM D. STERMER DATE  
LICENSE EXPIRES 11/30/2011  
SHEET RANGE 30A-30C



*Deborah A. Zroka* 3-18-11  
DEBORAH A. ZROKA DATE  
LICENSE EXPIRES 11/30/2012  
SHEET RANGE 31-60

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



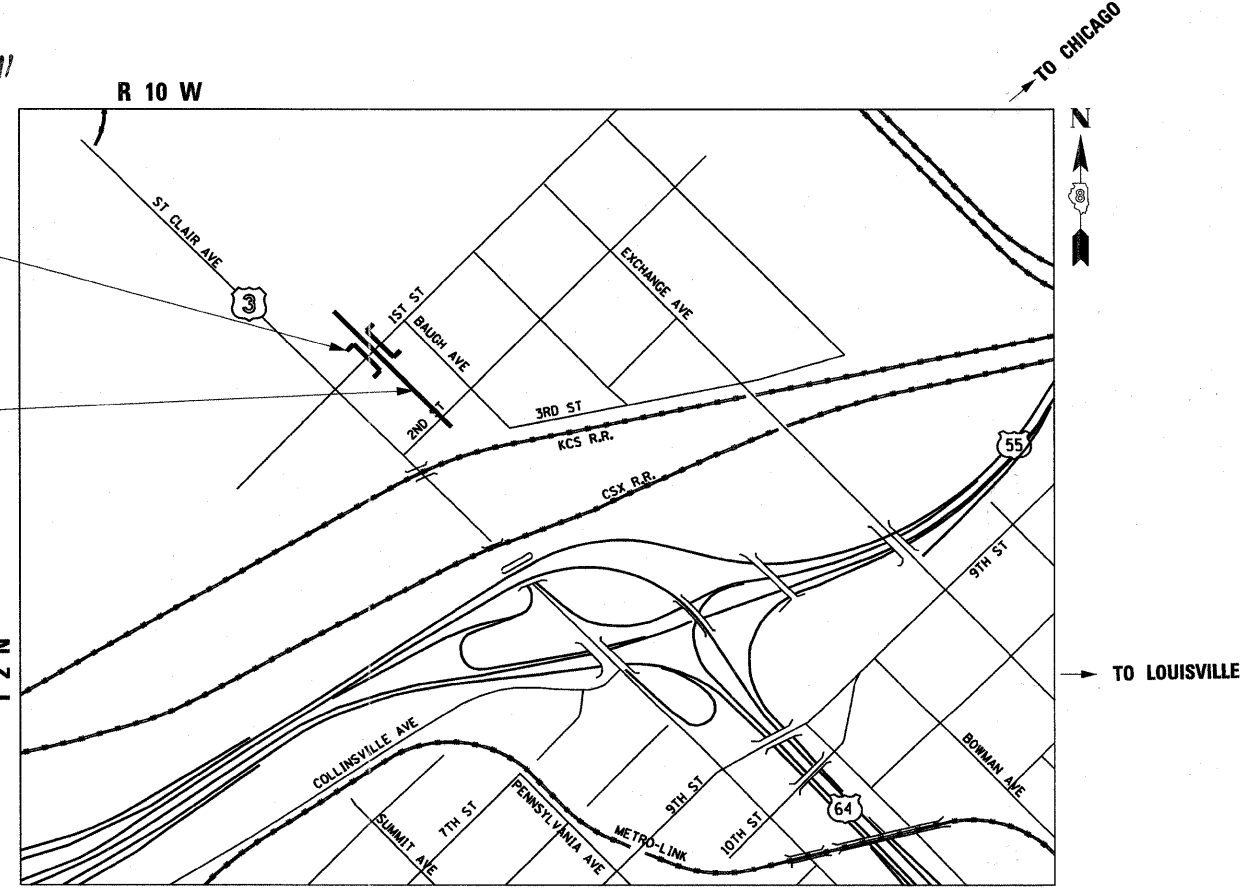
**I-70 AND CONNECTOR RAMPS GRADING LIMITS**  
STA 190+92.60 TO STA 196+35.37  
STA 50+25.76 TO STA 52+94.94 (RAMP 70E55N) AND  
STA 85+08.04 TO STA 87+70.02 (RAMP 55S70W)

**I-70 BRIDGE OVER 1ST STREET**  
STRUCTURE NO. 082-0312 AND  
STRUCTURE NO. 082-0313  
STA 192+29.00 TO STA 193+87.33

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

**PROJECT ENGINEER MIKE PRITCHETT  
SQUAD LEADER CHAD SANDERS  
CONTRACT NO. 76C50**



TOWNSHIP: CANTEEN  
GROSS/NET LENGTH = 1,073.93' (0.203 MILES)



SCALE IN MILES

NPDES PERMIT INFORMATION	
NPDES Disturbed	
Area =	6.90 Acres
Approximate Location of Roadway is :	
Longitude	90° 08' 59.21" W
Latitude	38° 38' 14.47" N



LOCATION OF SECTION INDICATED THIS: - [black rectangle]

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED *March 29 2011*  
*Mary C Jamel*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

*May 13 2011*  
*Scott E. Stitt P.E.*  
acting ENGINEER OF DESIGN AND ENVIRONMENT

*May 13 2011*  
*Christine M. Zroka*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**



**INDEX OF SHEETS**

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**HIGHWAY STANDARDS**

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND D PATCHES
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602401-03	MANHOLE TYPE A
602701-02	MANHOLE STEPS
604001-03	FRAMES AND LIDS TYPE 1
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
666001-01	RIGHT OF WAY MARKERS
701001-02	OFF-RD MOVING OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-03	OFF-RD MOVING OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701501-06	URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN

**GENERAL NOTES**

1. ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDED AS DIRECTED BY THE ENGINEER. ALL AREAS DISTURBED BY CONTRACTOR OUTSIDE THE PROPOSED LIMITS SHALL BE SEEDED AT THE CONTRACTORS' EXPENSE.
2. THE CONTRACTOR SHALL BE AWARE THAT THE PROJECT SITE MAY CONTAIN ARCHEOLOGICAL EXCAVATED HOLES. THE CONTRACTOR SHALL FILL THE HOLES WITH EMBANKMENT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE ACCORDING TO THE FURNISHED EXCAVATION PAY ITEM IN THE PLANS.
3. THE IDOT HIGHWAY STANDARDS LATEST REVISION NUMBERS SHALL APPLY TO THIS PROJECT.
4. CONFLICTS MAY OCCUR BETWEEN THE ROADWAY PLANS AND RIGHT-OF-WAY PLANS. THE RIGHT-OF-WAY PLANS SHALL TAKE PRECEDENCE IN CONFLICTS IN RIGHT-OF-WAY OR EASEMENTS. THE ROADWAY PLANS SHALL TAKE PRECEDENCE IN ITEMS FOR CONSTRUCTION.
5. EXCEPT WHERE DESIGNATED OTHERWISE, THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM OFFICE RECORD INFORMATION FURNISHED BY THE UTILITY OWNERS AND THE SUE SURVEYS. ALL UNDERGROUND UTILITIES MUST BE CONSIDERED APPROXIMATE.
6. THE PROPOSED EMBANKMENT SHALL BE BENCHED INTO THE EXISTING SLOPES TO THE SATISFACTION OF THE ENGINEER. SEE ROADWAY DETAILS FOR BENCHING DETAIL.
7. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
8. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON PUBLIC PROPERTY WITHOUT WRITTEN PERMISSION FROM IDOT.
9. DUE TO THE CLOSE PROXIMITY OF 1ST STREET TO THE CONSTRUCTION LOCATION, THE CONTRACTOR SHALL ENSURE THE 1ST STREET PAVEMENT WILL NOT BE DAMAGED BY THE CONSTRUCTION. IF DAMAGES OCCUR TO THE 1ST STREET PAVEMENT, THE CONTRACTOR SHALL REPAIR THE AFFECTED AREAS AT THE SATISFACTORY OF THE ENGINEER AND AT THE CONTRACTOR'S EXPENSE.
10. THE RIGHT OF WAY MARKER 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 MARKER AT THE TWELVE INCHES (12") OFFSET.
11. ALL MANHOLE LIDS OR INLET GRATES THAT ARE REMOVED DURING THIS CONTRACT SHALL REMAIN PROPERTY OF THE ILLINOIS DEPT. OF TRANSPORTATION AND SHALL BE REMOVED WITHOUT DAMAGE AND TRANSPORTED TO THE FOLLOWING ADDRESS: BOWMAN AVE. PUMP STATION, 728 EXCHANGE AVE., EAST ST. LOUIS, ILLINOIS - IF THERE ARE ANY QUESTIONS PLEASE CONTACT PETE SAWYER AT 618-346-3275.

FILE NAME = DBTRI-76C50-shr:gennote-02.dgn	USER NAME = searsb	DESIGNED OP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES / COMMITMENTS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 2.0000' / 1" =	DRAWN PHP/OP	REVISED -				998	82-1-2HB	ST. CLAIR	72	3
PLOT DATE = #DATE#	CHECKED DBM	REVISED -	CONTRACT NO. 76C50								
	DATE 03-18-11	REVISED -	SCALE: NONE		SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

**RAILROAD COORDINATION**

SPECIAL ATTENTION IS CALLED TO ARTICLE 107.12. THE NAMES AND TELEPHONE NUMBERS OF THE RAILROADS WITHIN THE PROJECT AREA ARE AS FOLLOWS:

HONNUR SRIKANTH (SRI) P.E.  
DIRECTOR OF TRACK & BRIDGE CONSTRUCTION  
KANSAS CITY SOUTHERN RAILWAY COMPANY (KCS) - (816) 983-1138

RICK PUTERBAUGH  
ROADMASTER (MAINTENANCE OF WAY)  
KANSAS CITY SOUTHERN RAILWAY COMPANY (KCS) - (573) 581-7566

AFTER COMPLETION OF CONSTRUCTION, RAILROAD DRAINAGE DITCHES SHALL BE CLEANED OF ALL DEBRIS TO THE SATISFACTION OF THE ENGINEER.

**UTILITY COORDINATION**

ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING BY CALLING J.U.L.I.E. AND BY NOTIFYING NON-J.U.L.I.E. MEMBERS INDIVIDUALLY. FIELD MARKING OF FACILITIES MAY ALSO BE OBTAINED BY PROVIDING A MINIMUM OF 96-HOURS NOTICE TO THE RESIDENT ENGINEER SO THAT UTILITY COMPANIES CAN BE NOTIFIED. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

- AMEREN UE
- AMERITECH
- CHARTER COMMUNICATIONS
- EXPLORER PIPELINE
- ILLINOIS POWER COMPANY
- ILLINOIS AMERICAN WATER
- MARATHON ASHLAND PIPELINE COMPANY
- MCI
- MCLEOD USA
- NORAM TRADING AND TRANSPORTATION COMPANY
- QWEST
- SPRINT
- WORLDCOM
- 360 NETWORKS

CITY OF EAST ST LOUIS - (618) 482-6737  
METRO EAST SANITARY DISTRICT - (618) 452-9400  
ST LOUIS NATIONAL STOCKYARDS COMPANY - (405) 235-8675

(MEMBERS OF J.U.L.I.E. (800)-892-0123 OR 811 ARE INDICATED BY \*. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.)

**COORDINATE SYSTEM AND DATUM**

THIS PROJECT IS BASED ON THE MISSISSIPPI RIVER CROSSING (MRC) COORDINATE SYSTEM. THE MISSISSIPPI RIVER CROSSING (MRC) COORDINATE SYSTEM IS BASED ON A MODIFIED UNIVERSAL TRANSVERSE MERCATOR (UTM) SYSTEM. THE MRC COORDINATE SYSTEM HAS BEEN CONVERTED FROM UTM ZONE 15 NORTH BY AN AVERAGE PROJECTION FACTOR AND ALSO CONVERTED FROM METERS TO U.S. SURVEY FEET.

AVERAGE GRID FACTOR = 1.000339495  
PROJECTION FACTOR = 1/grid = 0.999660620

THE BASE POINT FROM WHICH ALL UTM COORDINATES WERE SCALED WAS PRIMARY CONTROL MONUMENT NUMBER 10, LISTED IN APPENDIX A OF THE MRC SURVEY SUMMARY, AVAILABLE FROM THE ENGINEER. EACH VECTOR FROM MONUMENT NUMBER 10 TO ALL OTHER MONUMENTS WAS MULTIPLIED BY THE PROJECTION FACTOR TO CALCULATE A SURFACE VECTOR AND THEN THIS SURFACE VECTOR WAS USED TO CALCULATE THE SURFACE COORDINATES.

THE VERTICAL CONTROL DATUM IS NAVD 1988.

**TRAFFIC CONTROL**

1. ALL EXCAVATION ADJACENT TO THE EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES AND APPROPRIATE LIGHTS.
2. ALL TRAFFIC CONTROL SIGNS, EXCEPT THOSE REFERRING TO DAILY LANE CLOSURES, SHALL BE POST MOUNTED.
3. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT AND ON THE INTERSECTING SIDE ROADS, AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE, 48".
4. FLAGMEN SHALL BE PRESENT DURING ALL CLOSURE HOURS, INCLUDING LUNCH HOUR, AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
5. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF SIXTEEN SANDBAGS PER BARRICADE.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL WOOD SIGN POST SUPPORTS IN ACCORDANCE WITH SECTION 730 OF THE STANDARD SPECIFICATIONS. HOWEVER, INSTALLATION BY METHOD "A" (ART. 730.04(g)) SHALL BE THE ONLY METHOD PERMITTED.
7. A MINIMUM NOTICE OF 72 HOURS TO THE CITY POLICE, AMBULANCE, AND EMERGENCY CREWS IS NEEDED PRIOR TO ROAD CLOSURES.

VILLAGE OF FAIRMONT CITY:  
POLICE DEPARTMENT (618) 274-2504  
FIRE DEPARTMENT (618) 274-2504

8. THE CONTRACTOR MAY NOT ALTER THE SEQUENCE OF CONSTRUCTION WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
9. TEMPORARY ACCESS TO ALL ENTRANCES (COMMERCIAL AND PRIVATE) SHALL BE MAINTAINED DURING CONSTRUCTION.
10. PRIOR TO THE START OF CONSTRUCTION, ALL REQUIRED TRAFFIC CONTROL DEVICES SHALL BE IN PLACE.
11. 1ST STREET SHALL NOT BE CLOSED AT ANY TIME UNTIL EXISTING EXCHANGE AVENUE EXTENSION IS COMPLETED.
12. 1ST STREET SHALL ONLY BE CLOSED ON SUNDAYS FOR FIFTEEN MINUTE DURATIONS FOR BEAM ERECTION.
13. MESSAGE BOARDS SHALL BE INSTALLED ON ST. CLAIR AVENUE BOTH NORTHBOUND AND SOUTHBOUND TO WARN MOTORISTS OF THE INTERMITTENT FIFTEEN MINUTE ROAD CLOSURE OF 1ST STREET. THE MESSAGE BOARDS SHALL BE IN PLACE AND OPERATIONAL 2 WEEKS PRIOR TO THE CLOSURE NOTING SUNDAY OR SUNDAYS OF THE INTERMITTENT CLOSURE.

**EROSION CONTROL**

1. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL MEET WITH THE RESIDENT ENGINEER OR SUPERVISOR TO DISCUSS ABOUT EROSION CONTROL ITEM INSTALLATION.
2. ALL EROSION CONTROL ITEMS SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
3. EROSION CONTROL BLANKET SHALL BE PLACED WITH THE FINAL SEEDING WHERE THE SLOPE IS FLATTER THAN 3:1.
4. HEAVY DUTY EROSION CONTROL BLANKET SHALL BE PLACED WITH THE FINAL SEEDING WHERE THE SLOPE IS 3:1 OR STEEPER.

**COMMITMENTS**

1. IDOT IS COMMITTED TO PROVIDING 1ST STREET BUSINESS OWNERS INFORMATION REGARDING ALTERNATIVE ACCESS ROUTES DURING THE RECONSTRUCTION OF THE TRI-LEVEL INTERCHANGE. IDOT HAS DESIGNED A CONTRACT FOR THE PATCHING OF 1ST STREET AND THE RECONSTRUCTION OF EXCHANGE AVENUE.

FILE NAME = DBTRI-76C50-sh-t-genote-03.dgn	USER NAME = searsb	DESIGNED OP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES / COMMITMENTS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 2,0000' / 1".	DRAWN PHF/OP	REVISED -				998	82-1-2HB	ST. CLAIR	72	4
	PLOT DATE = #DATE#	CHECKED DBM	REVISED -		SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 76C50
		DATE 03-18-11	REVISED -								



## SUMMARY OF QUANTITIES

SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE	
					ROADWAY	I-70 BRIDGE STR NO 082-0312 & 082-0313
					URBAN	
					0001	0008
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	76	76	
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	121	121	
	20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25	
	20200100	EARTH EXCAVATION	CU YD	2,580	2,580	
	20400800	FURNISHED EXCAVATION	CU YD	128,660	128,660	
	20800150	TRENCH BACKFILL	CU YD	1,041	1,041	
	25000210	SEEDING, CLASS 2A	ACRE	7.00	7.00	
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	617	617	
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	617	617	
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	617	617	
	25100115	MULCH, METHOD 2	ACRE	7.00	7.00	
	25100630	EROSION CONTROL BLANKET	SQ YD	14,284	14,284	
	25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	18,401	18,401	
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,368	1,368	
	28000305	TEMPORARY DITCH CHECKS	FOOT	67	67	
	28000400	PERIMETER EROSION BARRIER	FOOT	2,870	2,870	
	28100107	STONE RIPRAP, CLASS A4	SQ YD	453	453	
	28200200	FILTER FABRIC	SQ YD	453	453	
	31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	292	292	
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	255	255	
	44000100	PAVEMENT REMOVAL	SQ YD	1,526	1,526	
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	41	41	
	44000300	CURB REMOVAL	FOOT	72	72	
	44000600	SIDEWALK REMOVAL	SQ FT	1,729	1,729	
	44201347	CLASS C PATCHES, TYPE IV, 9 INCH	SQ YD	46	46	
	50102400	CONCRETE REMOVAL	CU YD	60	60	
	50300225	CONCRETE STRUCTURES	CU YD	170.7		170.7
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	1,040.8		1,040.8
	50300260	BRIDGE DECK GROOVING	SQ YD	2,607		2,607

• DENOTES SPECIALTY ITEM

FILE NAME = DBTRI-76C50-ah-500-01.dgn	USER NAME = pms@no	DESIGNED OP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 2.0000' / in.	DRAWN PHP/OP	REVISED -			998	82-1-2HB	ST. CLAIR	72	5
	PLOT DATE = #DATE#	CHECKED DBM	REVISED -		SCALE: NONE	SHEET NO. 1 OF 3 SHEETS		STA.	TO STA.	
		DATE 03-18-11	REVISED -			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
										CONTRACT NO. 76C50

## SUMMARY OF QUANTITIES

SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE	
					ROADWAY	I-70 BRIDGE STR NO 082-0312 & 082-0313
					0001	0008
	50300300	PROTECTIVE COAT	SQ YD	2,997		2,997
	50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1
	50500505	STUD SHEAR CONNECTORS	EACH	6,426		6,426
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	249,580		249,580
	50800515	BAR SPLICERS	EACH	212		212
	51100100	SLOPE WALL 4 INCH	SQ YD	1,090		1,090
	51200958	FURNISHING METAL SHELL PILES 14" X 0.250"	FOOT	3,804		3,804
	51202305	DRIVING PILES	FOOT	3,804		3,804
	51203200	TEST PILE METAL SHELLS	EACH	4		4
	51500100	NAME PLATES	EACH	2		2
	52000030	PREFORMED JOINT SEAL 2½"	FOOT	158		158
	52100520	ANCHOR BOLTS, 1"	EACH	56		56
	542A4651	PIPE CULVERTS, CLASS A, TYPE 7 36"	FOOT	280	280	
	54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	2	2	
	54213687	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42"	EACH	1	1	
	550A0180	STORM SEWERS, CLASS A, TYPE 1 42"	FOOT	96	96	
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	288		288
	60600605	CONCRETE CURB, TYPE B	FOOT	72.0	72.0	
	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	4	4	
	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	1,779	1,779	
	66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1	
	66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4	
	67100100	MOBILIZATION	L SUM	1	1	
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	2	2	
	72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	2	2	
	81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	1,860	1,860	
	81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	1,195		1,195
	81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	600	600	
	X0326385	COMBINED SEWER REMOVAL 21"	FOOT	647	647	

• DENOTES SPECIALTY ITEM

FILE NAME = DBTRI-76C50-shr-500-02.dgn	USER NAME = pmserno	DESIGNED OP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE. 998	SECTION 82-1-2HB	COUNTY ST. CLAIR	TOTAL SHEETS 72	SHEET NO. 6
	PLOT SCALE = 2,0000' / in.	DRAWN PHP/OP	REVISED -		SCALE: NONE					
	PLOT DATE = #DATE#	CHECKED DBM	REVISED -		SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 76C50
		DATE 03-18-11	REVISED -							

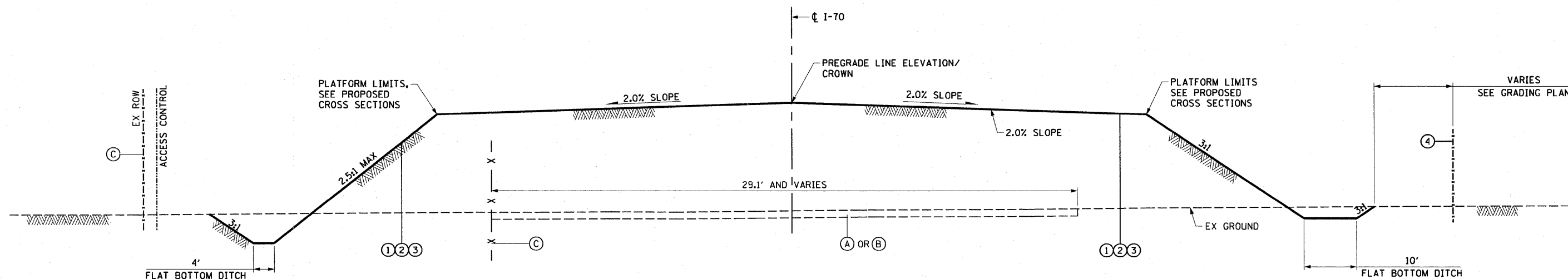
## SUMMARY OF QUANTITIES

SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE	
					ROADWAY	I-70 BRIDGE STR NO 082-0312 & 082-0313
					0001	0008
	X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	680		680
	X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	29,290	29,290	
	X6022820	MANHOLES, SANITARY, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2	
	X6026054	SANITARY MANHOLES TO BE REMOVED	EACH	1	1	
	X6640200	TEMPORARY CHAIN LINK FENCE	FOOT	543	543	
	X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1	
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	296		296
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
	Z0068400	STEEL CASINGS 42"	FOOT	363	363	
	X0327310	COMBINED SEWERS, CLASS A, TYPE 2, 21"	FOOT	44	44	
	X0327311	COMBINED SEWERS, CLASS A, TYPE 7, 24"	FOOT	427	427	
	X0327269	COMBINED SEWER REMOVAL 18"	FOOT	205	205	
	X0327267	SLOPE INCLINOMETER	EACH	5	5	
	Z0076602	TRAINEES, SPECIAL	HOUR	3,500	3,500	
	Z0042000	PORE PRESSURE MEASUREMENT DEVICES	EACH	10	10	

■ 0042

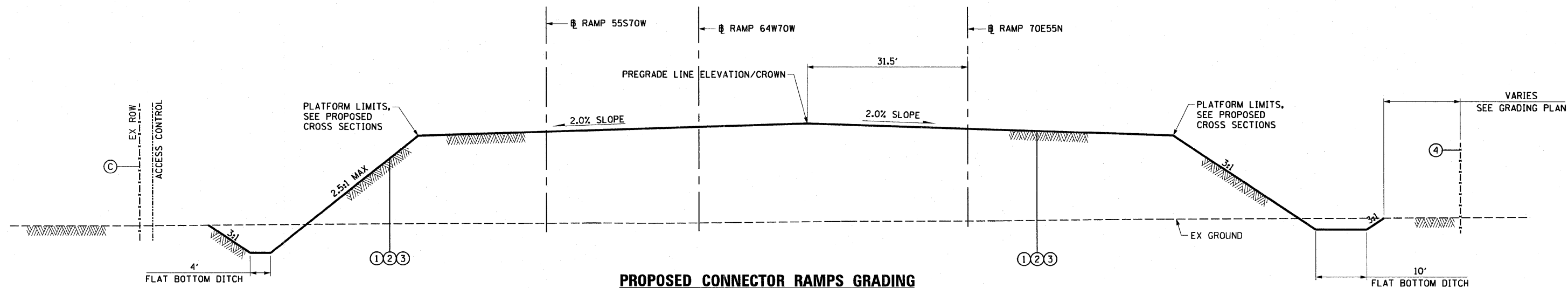
• DENOTES SPECIALTY ITEM

FILE NAME = DBTRI-76C50-shr-S00-03.dgn	USER NAME = pmsarnic	DESIGNED OP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>	F.A.P. RTE. 998	SECTION 82-1-2HB	COUNTY ST. CLAIR	TOTAL SHEETS 72	SHEET NO. 7
PLOT SCALE = 1.0000' / 1" =	CHECKED DBM	DATE 03-18-11	REVISED -	SCALE: NONE	SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 76C50		
PLOT DATE = 3/14/2011	DATE			FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT			



**PROPOSED INTERSTATE 70 GRADING**

STA 190+92.60 TO STA 196+35.37  
 BRIDGE LIMITS STA 192+29.00 TO STA 193+87.33 (SEE STRUCTURAL SHEETS)  
 3:1 GRADING STA 190+92.60 TO STA 191+49.00 (SEE PROFILE SHEETS)



**PROPOSED CONNECTOR RAMPS GRADING**

STA 50+25.76 TO STA 51+97.75 (RAMP 70E55N)

**EXISTING LEGEND:**

- (A) BITUMINOUS PAVEMENT
- (B) BRICK PAVEMENT
- (C) FENCE

**PROPOSED LEGEND:**

- (1) FURNISHED EXCAVATION
- (2) SEEDING CLASS 2A WITH EROSION CONTROL BLANKET OR HEAVY DUTY EROSION CONTROL BLANKET
- (3) TEMPORARY EROSION ITEMS (SEE EROSION CONTROL SHEET)
- (4) TEMPORARY CHAIN LINK FENCE

FILE NAME = DBTRI-76C50-shr-typical-01.dgn

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 PLOT DATE = \$DATE\$

DESIGNED OP  
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 CHECKED DBM  
 DATE 03-18-11

REVISED -  
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 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS  
 SCALE: H=10 V=5 SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-2HB	ST. CLAIR	72	8
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 76C50				



**REMOVAL SCHEDULE**

SHEET	STATION	TO	STATION	TREE REMOVAL (6 TO 15	TREE REMOVAL (OVER 15	TREE REMOVAL, ACRES	PAVEMENT REMOVAL	DRIVEWAY PAVEMENT	SIDEWALK REMOVAL	CURB REMOVAL	CONCRETE REMOVAL	REMOVE SING PANEL
				UNITS DIAMETER)	UNITS DIAMETER)	ACRE	SQ YD	REMOVAL	SQ FT	FOOT	CU YD	ASSEMBLY - TYPE B
PLAN-1	190+92.60	TO	195+75.00	-	-	-	-	-	-	36	-	-
PLAN-2	195+75.00	TO	84+97.91	76	121	0.06	1,085	41	967	-	-	-
PLAN-3	7+00.00	TO	END	-	-	0.19	441	-	762	36	60	2
<b>TOTALS</b>				<b>76</b>	<b>121</b>	<b>0.25</b>	<b>1,526</b>	<b>41</b>	<b>1,729</b>	<b>72</b>	<b>60</b>	<b>2</b>

**NOTES**

1. ASSUME 12" THICKNESS FOR CONCRETE REMOVAL.

**FENCE SCHEDULE**

SHEET	STATION	TO	STATION	TEMPORARY CHAIN LINK
				FENCE
PLAN-1	190+92.60	TO	195+75.00	-
PLAN-2	195+75.00	TO	84+97.91	-
PLAN-3	7+00.00	TO	END	543
<b>TOTALS</b>				<b>543</b>

**PATCHING SCHEDULE**

SHEET	STATION	TO	STATION	CLASS C PATCHES, TYPE
				IV, 9 INCH
PLAN-1	190+92.60	TO	195+75.00	-
PLAN-2	195+75.00	TO	84+97.91	-
PLAN-3	7+00.00	TO	END	46
<b>TOTALS</b>				<b>46</b>

**PAVEMENT SCHEDULE**

SHEET	STATION	TO	STATION	SUB-BASE GRANULAR	CONCRETE CURB, TYPE B
				MATERIAL, TYPE B 4"	FOOT
PLAN-1	190+92.60	TO	195+75.00	292	36.0
PLAN-2	195+75.00	TO	84+97.91	-	-
PLAN-3	7+00.00	TO	END	-	36.0
<b>TOTALS</b>				<b>292</b>	<b>72.0</b>

**EARTHWORK SCHEDULE**

ALIGNMENT	STATION	TO	STATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (NOT A PAY ITEM)	EMBANKMENT (NOT A PAY ITEM)	FURNISHED EXCAVATION	
				CU YD	CU YD	CU YD	CU YD	
I-70	190+92.60	TO	191+00.00	1	1	48	47	
	191+00.00	TO	191+49.00	200	150	3,278	3,128	
	191+49.00	TO	192+00.00	277	208	6,657	6,449	
	192+00.00	TO	192+29.00	67	51	3,965	3,914	
	192+29.00	TO	192+60.97	31	24	2,141	2,117	
	BRIDGE OMISSION							
	193+49.36	TO	193+87.33	20	15	3,173	3,158	
	193+87.33	TO	194+00.00	14	11	2,224	2,213	
	194+00.00	TO	194+15.00	55	42	2,781	2,739	
	194+15.00	TO	194+50.00	224	168	6,595	6,427	
	194+50.00	TO	194+75.00	160	120	4,840	4,720	
	194+75.00	TO	195+00.00	152	114	5,028	4,914	
	195+00.00	TO	195+50.00	270	203	10,528	10,325	
	195+50.00	TO	196+00.00	228	171	11,132	10,961	
196+00.00	TO	196+35.36	135	102	8,267	8,165		
70E55N	50+25.76	TO	50+50.00	84	63	5,861	5,798	
	50+50.00	TO	51+00.00	172	129	12,865	12,736	
	51+00.00	TO	51+50.00	164	123	13,685	13,562	
	51+50.00	TO	51+65.34	46	35	4,317	4,282	
	51+65.34	TO	52+00.00	103	78	9,098	9,020	
	52+00.00	TO	52+38.37	60	45	8,456	8,411	
	52+38.37	TO	52+94.94	20	15	5,658	5,643	
OTHER	EXTRA EARTHWORK QUANTITY ADDED FOR CONSTRUCTION ENTRANCES (24 CU YD PER ENTRANCE x 4 ENTRANCES)			96	72	0	-72	

TOTALS	2,579	128,657
ROUNDED TOTALS	2,580	128,660

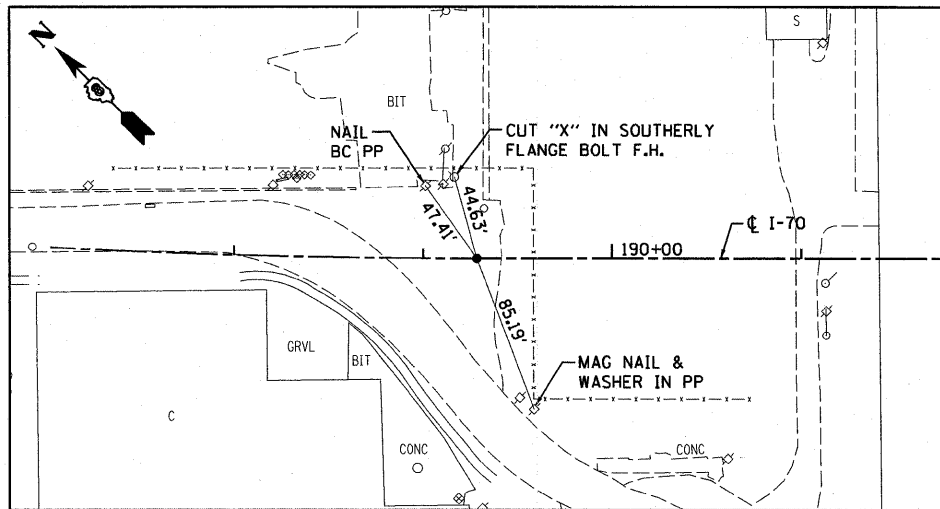
**NOTES:**

1. THE SHRINKAGE FACTOR USED TO CALCULATE EARTHWORK QUANTITIES IS 25%.
2. THE EARTH EXCAVATION AND FURNISHED EXCAVATION TOTALS ARE ROUNDED TO THE NEAREST 5 CU YD.

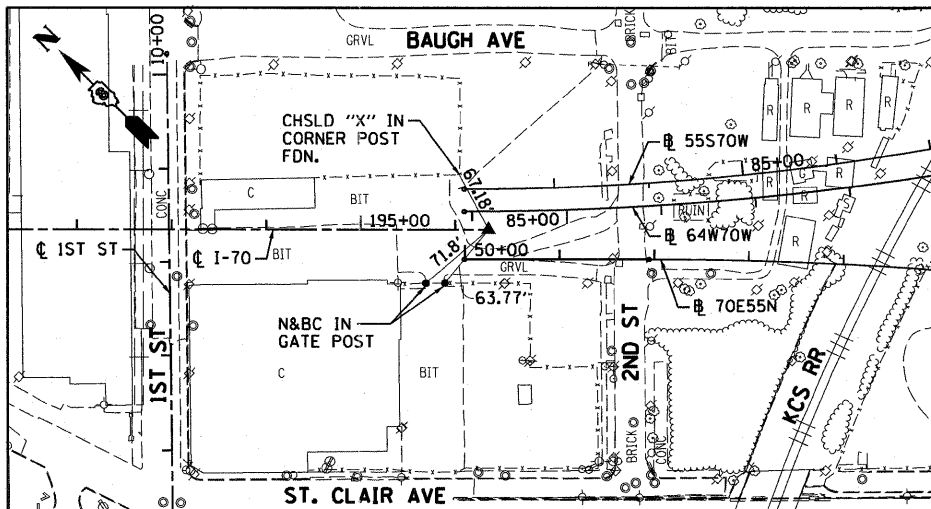




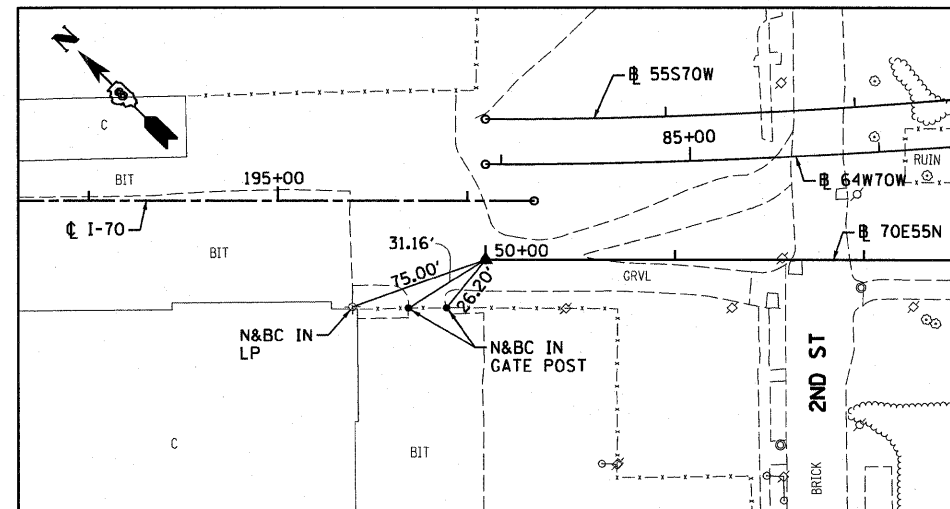
I-70  
PT STA 189+28.42  
COTTON SPINALE INSIDE CHSLD "X" IN BIT



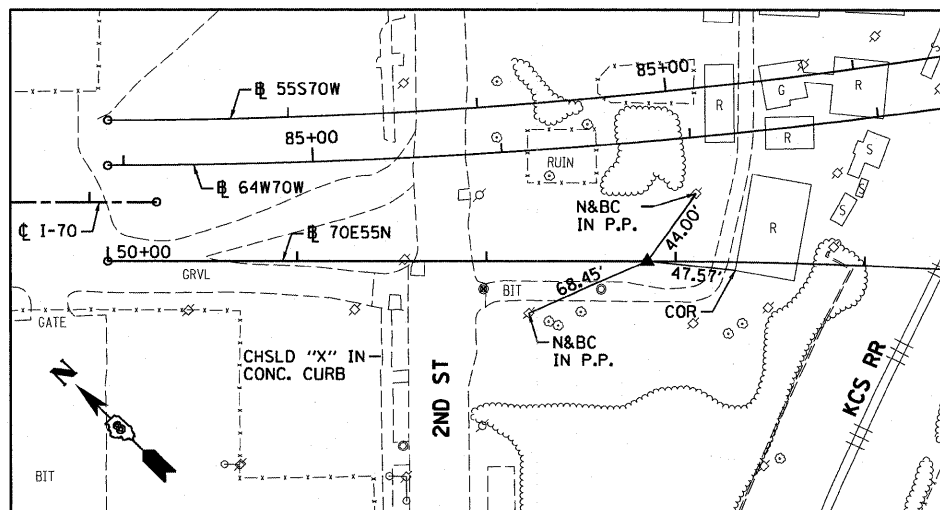
I-70  
POT STA 196+35.37  
SET 5/8" REBAR W/REDCAP FLUSH W/GR



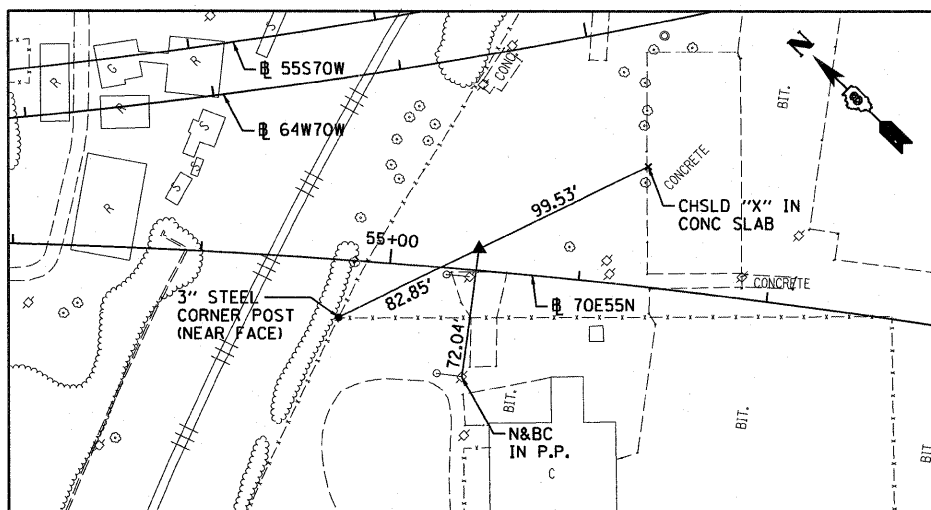
70E55N  
POT STA 50+00.00  
SET MAG NAIL IN BIT



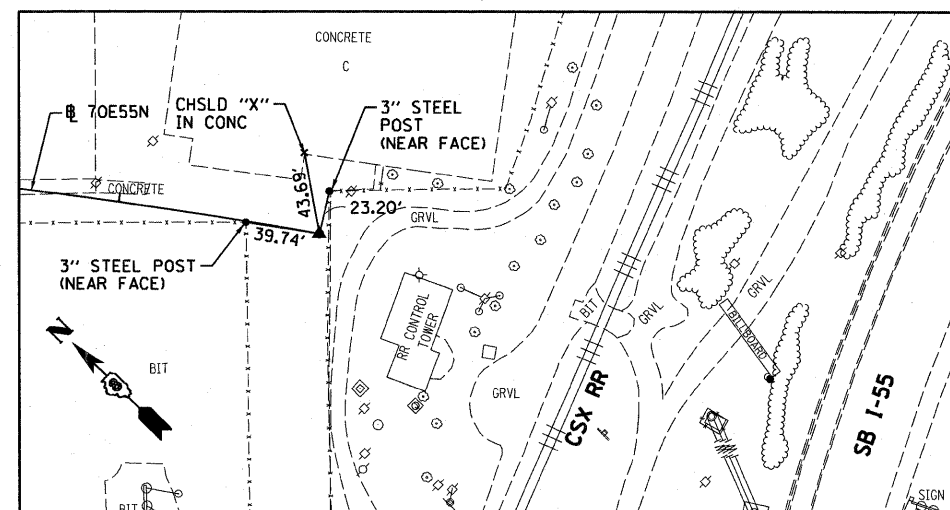
70E55N  
PC STA 52+85.08  
5/8" I. PIN W/YELLOW CAP



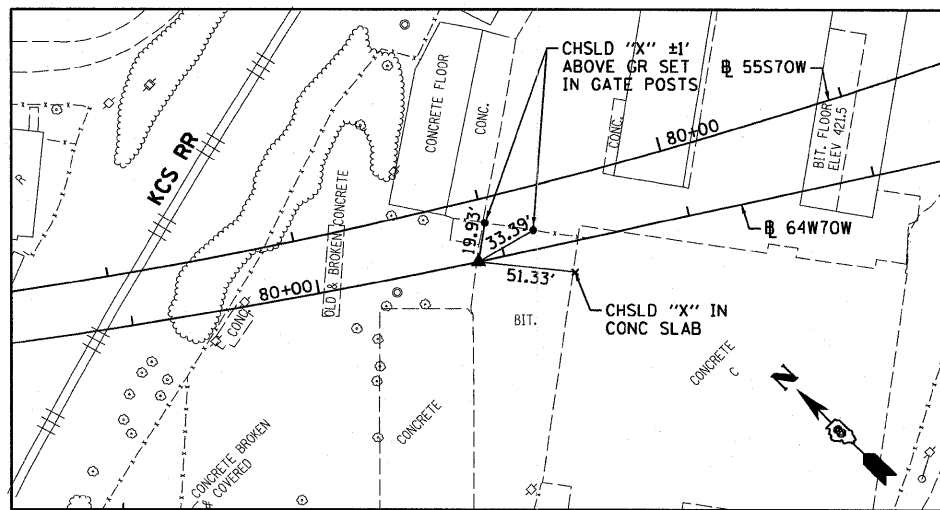
70E55N  
PI STA 55+46.88  
5/8" I. PIN W/YELLOW CAP



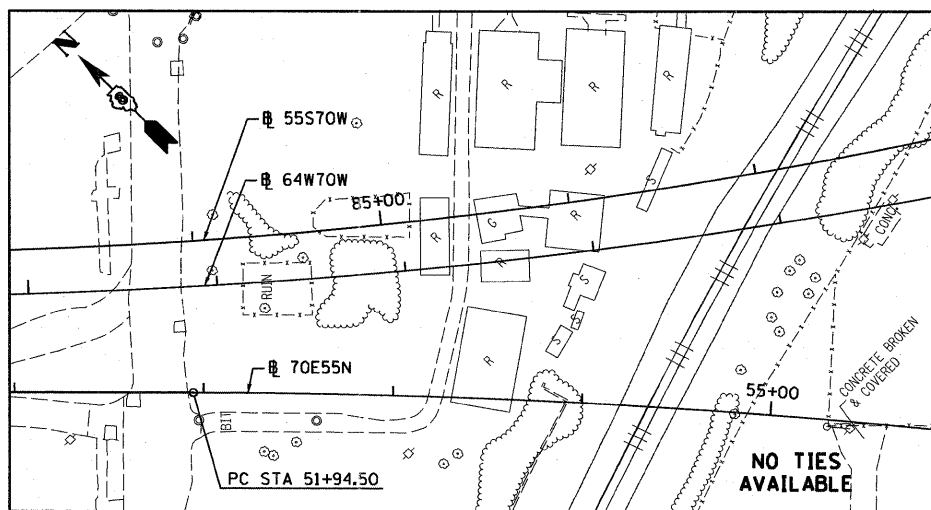
70E55N  
PT STA 58+07.32  
SET MAG NAIL IN BIT LOT



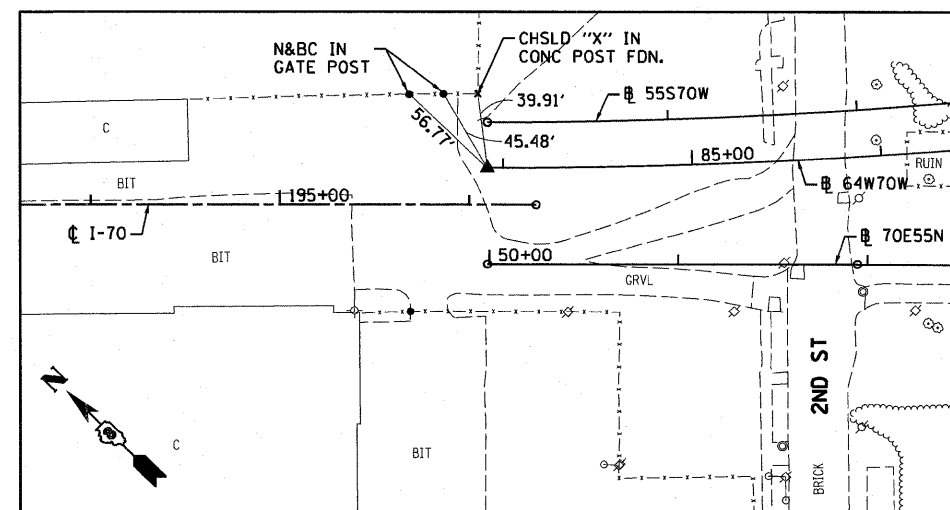
64W70W  
PC STA 79+13.90  
SET 5/8" REBAR W/RED CAP FLUSH W/GR



64W70W  
PI STA 82+62.48



64W70W  
PT STA 86+08.31  
SET 5/8" REBAR W/RED CAP FLUSH W/GR



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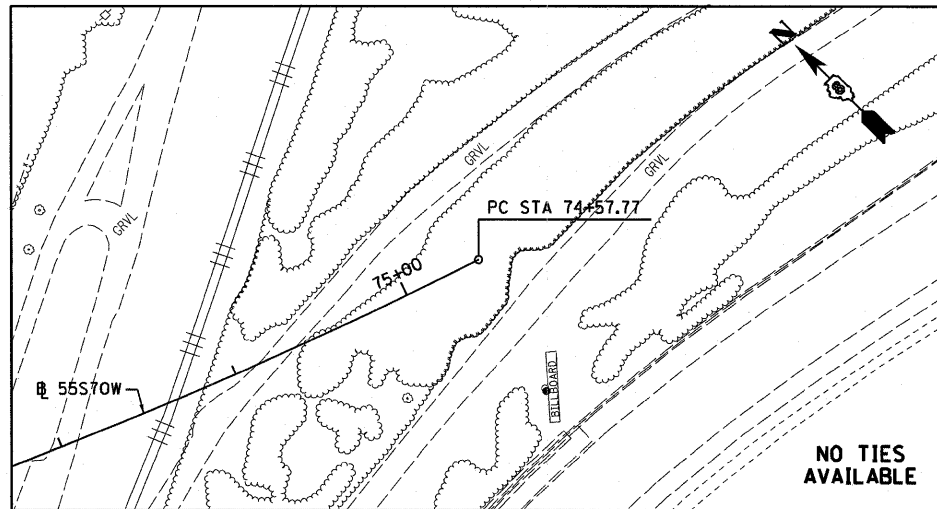
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS

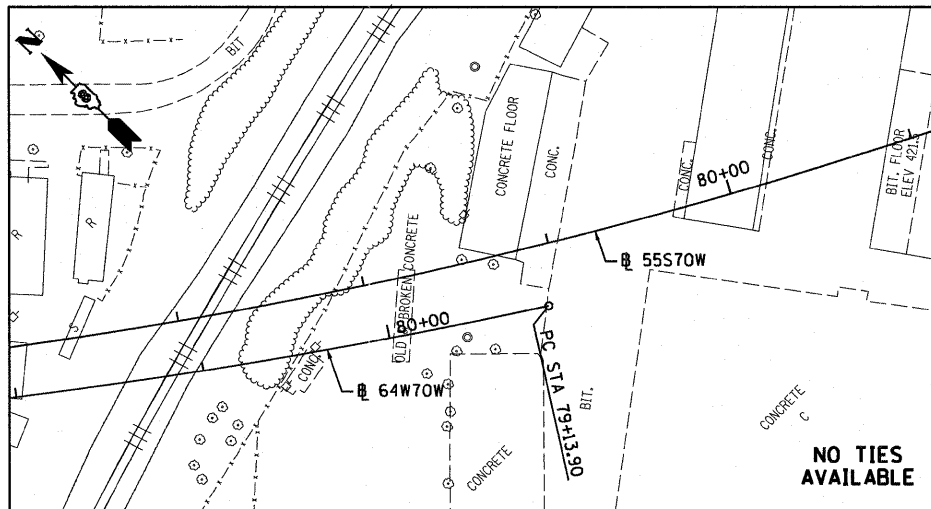
SCALE: NONE SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 998	SECTION 82-1-2HB	COUNTY ST. CLAIR	TOTAL SHEETS 72	SHEET NO. 12
CONTRACT NO. 76C50				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

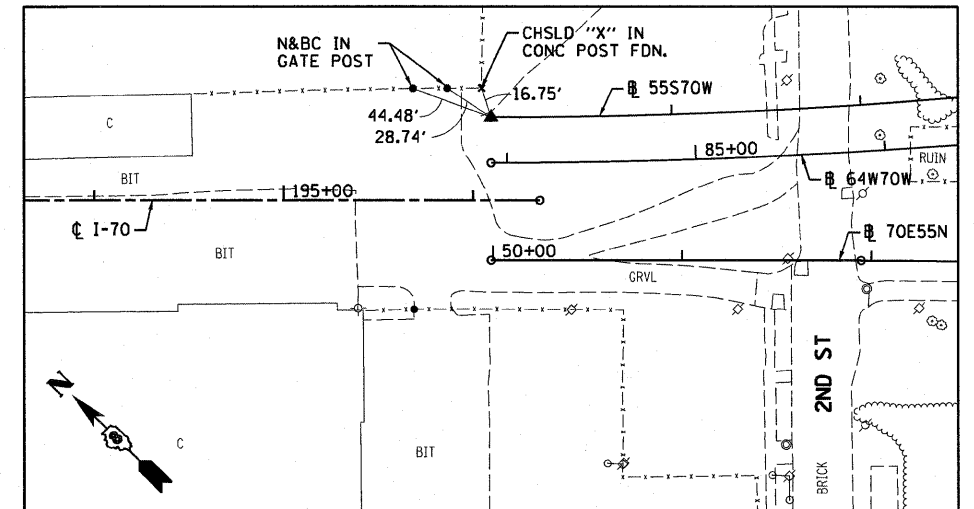
55S70W  
PC STA 74+57.77  
SET 5/8" I PIN W/RED CAP



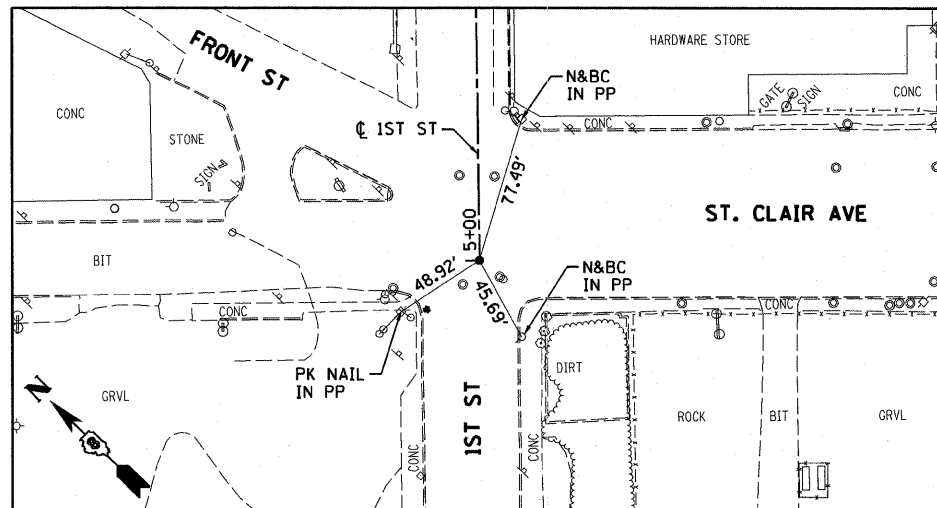
55S70W  
PI STA 81+39.12



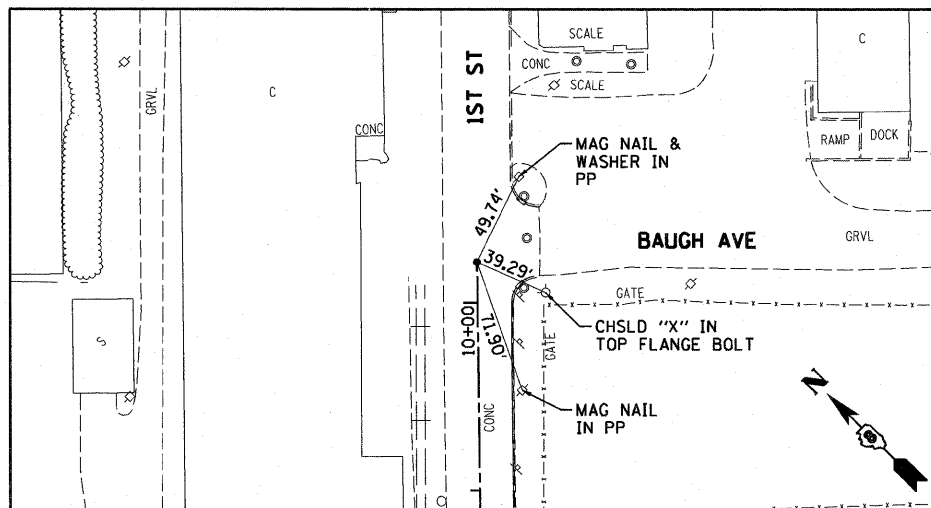
55S70W  
PT STA 87+95.40  
SET 5/8" REBAR W/RED LIN ENG. CAP FLUSH W/GR



1ST STREET  
POT STA 5+00  
MAG NAIL INSIDE CHSLD "X"



1ST STREET  
POT STA 10+21.57  
5/8" I.P. IN CONC PAVT



BENCHMARKS

BENCHMARK	DESCRIPTION	ELEVATION	STATION	OFFSET
0017-01	RR SPIKE IN PP W/LIGHT NW QUAD. ST. CLAIR & 1ST STREET	422.11	ST. CLAIR 86+61	30.0' LT
BM26	CHISELLED 'X' SOUTHERLY CAP BOLT FIRE HYDRANT AT NORTH QUADRANT 2ND ST. & ST. CLAIR AVE	423.65	I-70 EB/I-55 NB 51+42	210' RT
BM27	CHISELLED 'X' SOUTHERLY CAP BOLT FIRE HYDRANT AT NORTH QUADRANT 2ND STREET AND BAUGH AVE.	419.77	I-55 SB/I-70 WB 86+27	190' RT

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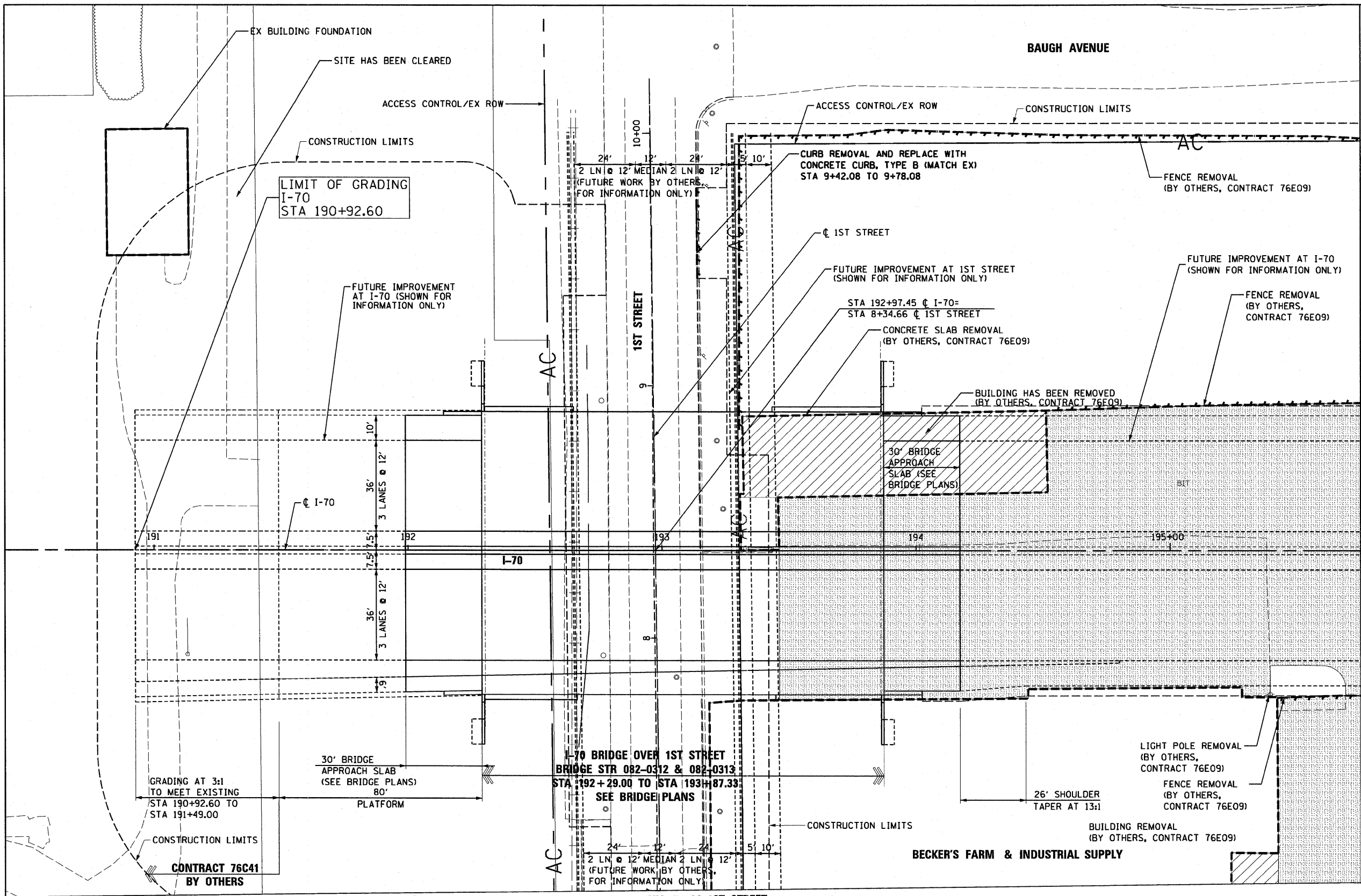
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS

SCALE: NONE SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-2HB	ST. CLAIR	72	13

CONTRACT NO. 76C50  
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT



MATCH LINE STA 195+75  
SEE SHEET 15

**REMOVAL LEGEND:**

	PAVEMENT REMOVAL - BITUMINOUS (BY OTHERS, CONTRACT 76E09)
	SIDEWALK REMOVAL
	MEDIAN REMOVAL
	PAVEMENT REMOVAL - BRICK
	DRIVEWAY/ ENTRANCE REMOVAL
	CONCRETE REMOVAL
	LINEAR REMOVAL
	TREE REMOVAL, ACRES
	TREE REMOVAL (UNITS)



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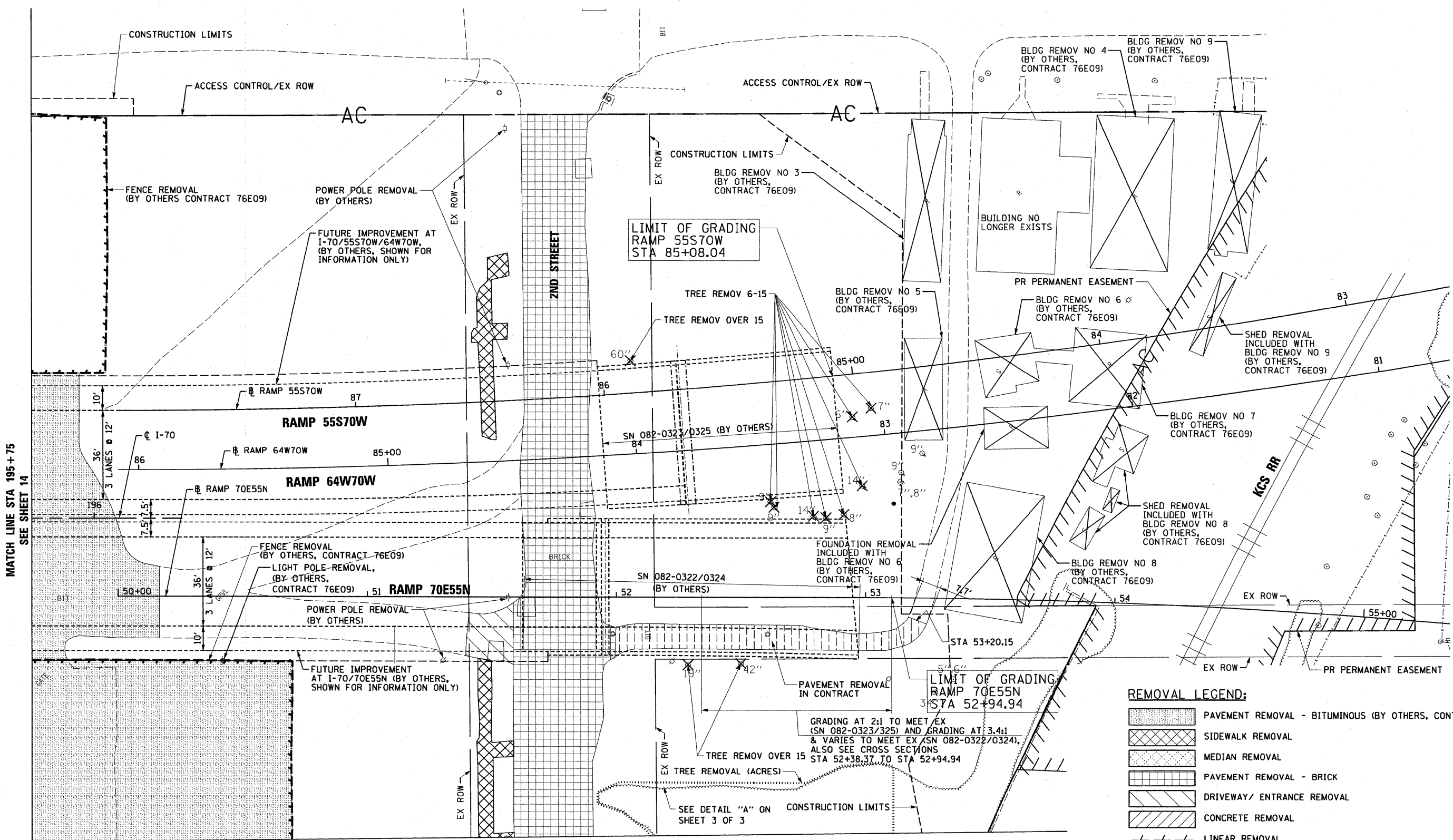
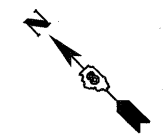
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED ROADWAY & REMOVAL PLAN  
 I-70**

SCALE: 1"=20' SHEET NO. 1 OF 3 SHEETS STA. 190+92.60 TO STA. 195+75.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-2HB	ST. CLAIR	72	14
CONTRACT NO. 76C50				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**REMOVAL LEGEND:**

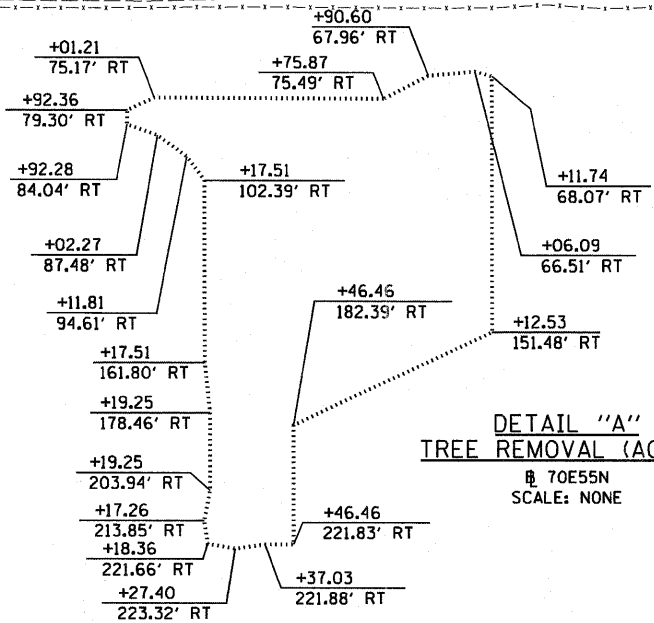
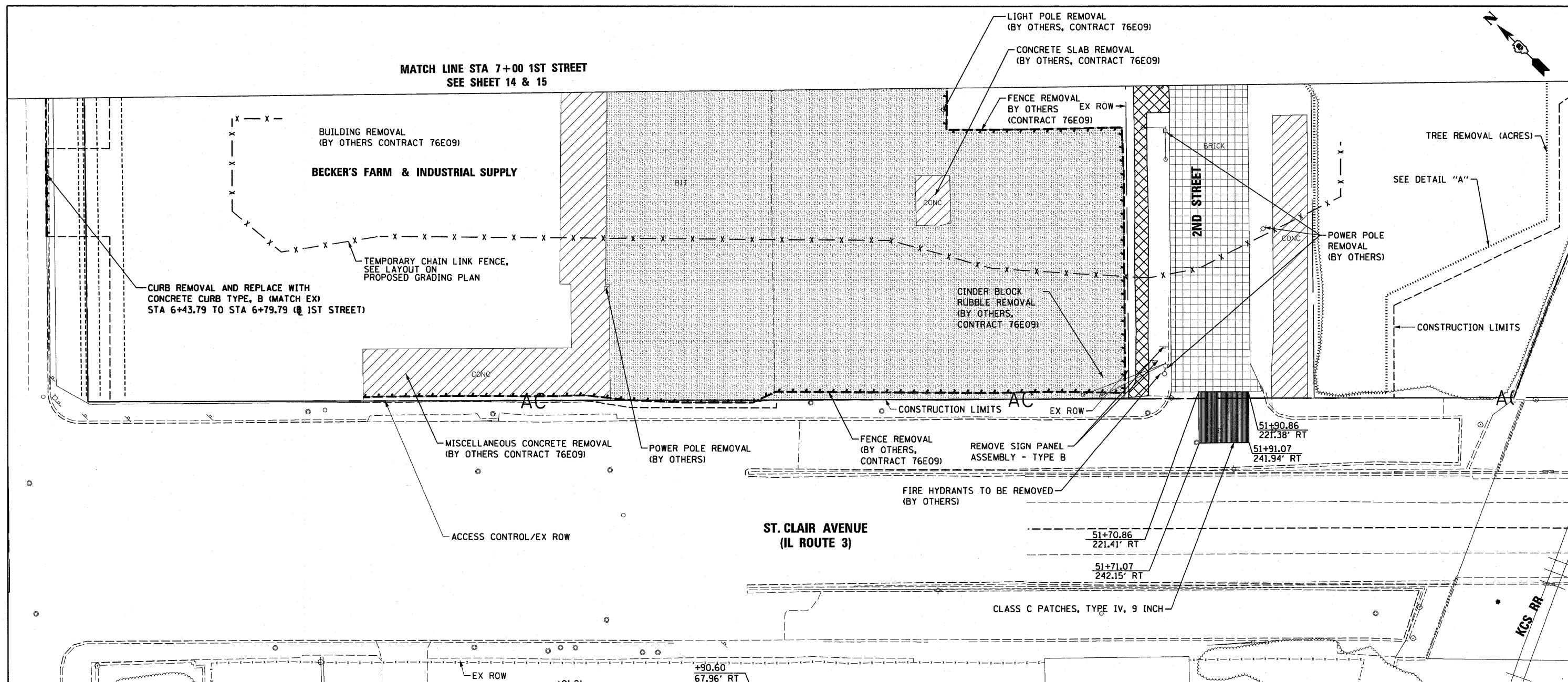
- PAVEMENT REMOVAL - BITUMINOUS (BY OTHERS, CONTRACT 76E09)
- SIDEWALK REMOVAL
- MEDIAN REMOVAL
- PAVEMENT REMOVAL - BRICK
- DRIVEWAY/ ENTRANCE REMOVAL
- CONCRETE REMOVAL
- LINEAR REMOVAL
- TREE REMOVAL, ACRES
- TREE REMOVAL (UNITS)



MATCH LINE STA 195+75  
SEE SHEET 14

MATCH LINE STA 7+00 1ST STREET  
SEE SHEET 16

FILE NAME = DBTRI-76C50-shr-plan-02.dgn	USER NAME = searsb	DESIGNED OP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED ROADWAY &amp; REMOVAL PLAN I-70</b>	F.A.P. RTE. 998	SECTION 82-1-2HB	COUNTY ST. CLAIR	TOTAL SHEETS 72	SHEET NO. 15		
PLOT SCALE = 40.0000' / 1" =	DRAWN PHP/OP	REVISIONS				SCALE: 1"=20'	SHEET NO. 2 OF 3 SHEETS	STA. 195+75.00 TO STA. 85+08.04	CONTRACT NO. 76C50			
PLOT DATE = \$DATE\$	CHECKED DBM	DATE 03-18-11				ILLINOIS FED. AID PROJECT						



**REMOVAL LEGEND:**

[Pattern]	PAVEMENT REMOVAL (SPECIAL) - BITUMINOUS
[Pattern]	SIDEWALK REMOVAL
[Pattern]	MEDIAN REMOVAL
[Pattern]	PAVEMENT REMOVAL - BRICK
[Pattern]	DRIVEWAY/ ENTRANCE REMOVAL
[Pattern]	CONCRETE REMOVAL
[Pattern]	LINEAR REMOVAL
[Pattern]	TREE REMOVAL, ACRES
[Symbol]	TREE REMOVAL (UNITS)



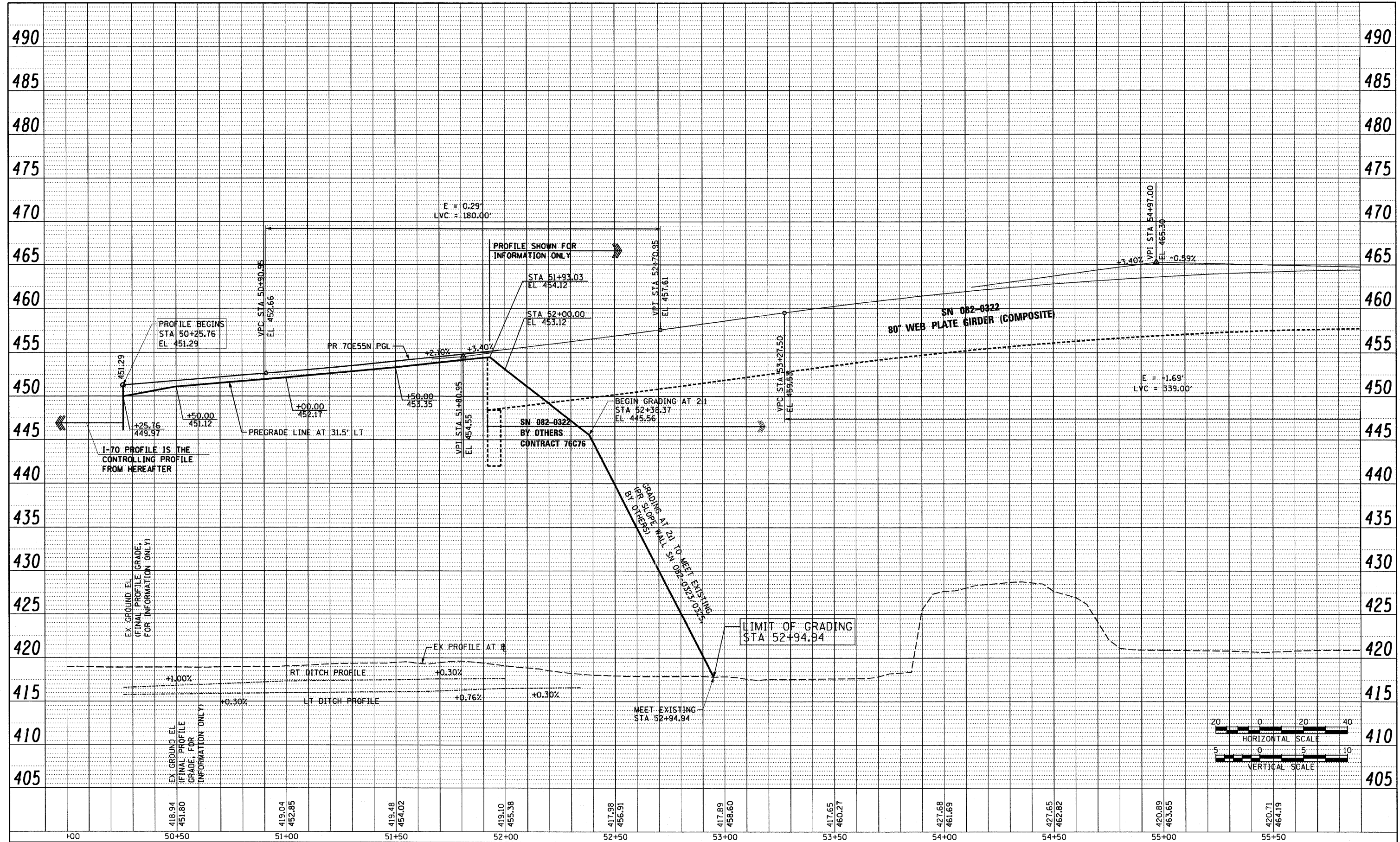
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	PLOT DATE = #DATE#	CHECKED DBM	REVISED -									
		DATE 03-18-11	REVISED -									





PLAN	SUBMITTED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	CONTRACT NO.		
	ADD. FILE NAME		

PROFILE	SUBMITTED	BY	DATE
	GRADES CHECKED		
	STRUCTURE NOTATIONS OK'D		
	NO.		

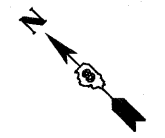


**PROPOSED 70E55N**

FILE NAME = DBTRI-76C50-shr-profile-02.dgn	USER NAME = searsb	DESIGNED OP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PROPOSED ROADWAY PROFILE RAMP I-70 EB TO I-55 NB (RAMP 70E55N)</b>	F.A.P. RTE. 998	SECTION 82-1-2NB	COUNTY ST. CLAIR	TOTAL SHEETS 72	SHEET NO. 18	
PLOT SCALE = 48.0000' / in.	CHECKED DBM	REVISED -	SCALE: H: 20 V: 5			SHEET NO. 1 OF 1 SHEETS	STA. 50+25.76 TO STA. 52+94.94	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 76C50	
PLOT DATE = \$DATE\$	DATE 03-18-11	REVISED -									







**STAGING NARRATIVE**

**SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL:**

- SCHEDULE REQUIREMENTS WILL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
- MAINTAIN TRAFFIC ON 1ST STREET AT ALL TIMES. INTERMITTENT FIFTEEN MINUTE CLOSURE WILL BE ALLOWED ON 1ST STREET ON SUNDAYS ONLY. THE CONTRACTOR SHALL NOTIFY THE ENGINEER 2 WEEKS IN ADVANCE OF ANY PLANNED CLOSURES.
- 2ND STREET BETWEEN BAUGH AVENUE TO ST. CLAIR AVENUE WILL BE CLOSED PERMANENTLY. PROPER SIGNAGE AND ADVANCE WARNING SIGNS SHALL BE IN PLACE PRIOR TO CLOSURE.
- 1ST STREET SHALL NOT BE CLOSED UNTIL EXISTING EXCHANGE AVENUE EXTENSION (CONTRACT 76C40) IS COMPLETED.

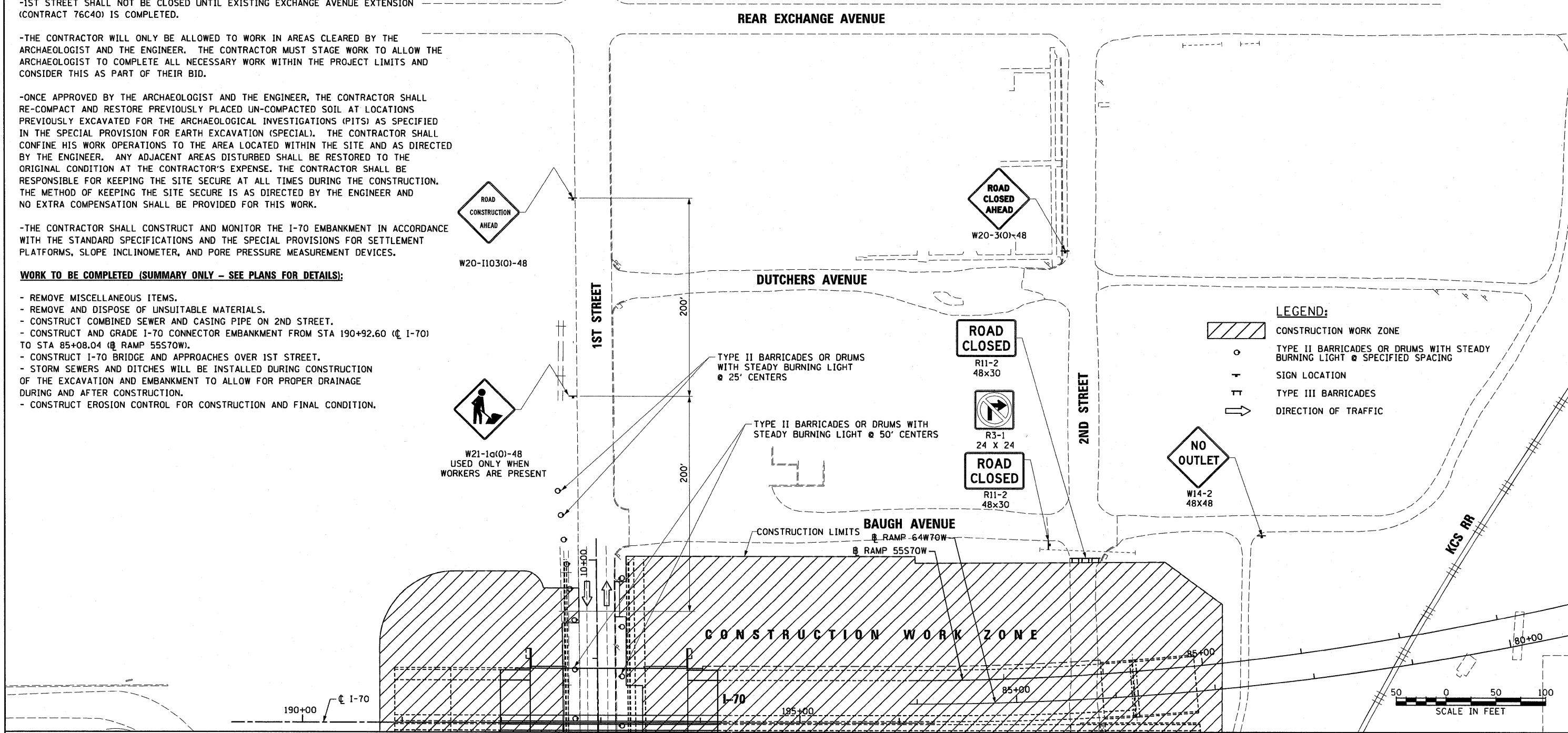
-THE CONTRACTOR WILL ONLY BE ALLOWED TO WORK IN AREAS CLEARED BY THE ARCHAEOLOGIST AND THE ENGINEER. THE CONTRACTOR MUST STAGE WORK TO ALLOW THE ARCHAEOLOGIST TO COMPLETE ALL NECESSARY WORK WITHIN THE PROJECT LIMITS AND CONSIDER THIS AS PART OF THEIR BID.

-ONCE APPROVED BY THE ARCHAEOLOGIST AND THE ENGINEER, THE CONTRACTOR SHALL RE-COMPACT AND RESTORE PREVIOUSLY PLACED UN-COMPACTED SOIL AT LOCATIONS PREVIOUSLY EXCAVATED FOR THE ARCHAEOLOGICAL INVESTIGATIONS (PITS) AS SPECIFIED IN THE SPECIAL PROVISION FOR EARTH EXCAVATION (SPECIAL). THE CONTRACTOR SHALL CONFINE HIS WORK OPERATIONS TO THE AREA LOCATED WITHIN THE SITE AND AS DIRECTED BY THE ENGINEER. ANY ADJACENT AREAS DISTURBED SHALL BE RESTORED TO THE ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE SITE SECURE AT ALL TIMES DURING THE CONSTRUCTION. THE METHOD OF KEEPING THE SITE SECURE IS AS DIRECTED BY THE ENGINEER AND NO EXTRA COMPENSATION SHALL BE PROVIDED FOR THIS WORK.

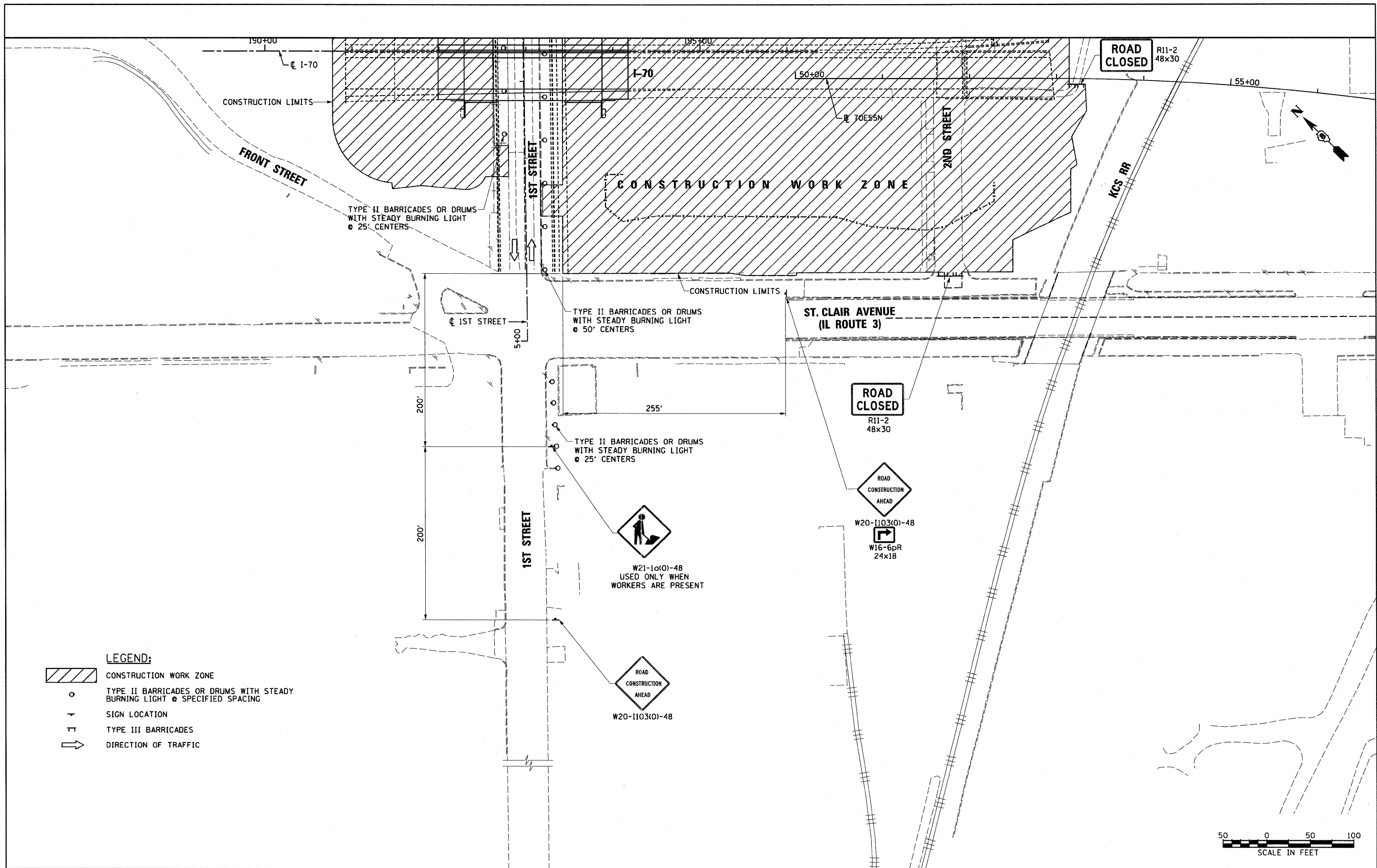
-THE CONTRACTOR SHALL CONSTRUCT AND MONITOR THE I-70 EMBANKMENT IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS FOR SETTLEMENT PLATFORMS, SLOPE INCLINOMETER, AND PORE PRESSURE MEASUREMENT DEVICES.

**WORK TO BE COMPLETED (SUMMARY ONLY - SEE PLANS FOR DETAILS):**

- REMOVE MISCELLANEOUS ITEMS.
- REMOVE AND DISPOSE OF UNSUITABLE MATERIALS.
- CONSTRUCT COMBINED SEWER AND CASING PIPE ON 2ND STREET.
- CONSTRUCT AND GRADE I-70 CONNECTOR EMBANKMENT FROM STA 190+92.60 (C I-70) TO STA 85+08.04 (RAMP 55S70W).
- CONSTRUCT I-70 BRIDGE AND APPROACHES OVER 1ST STREET.
- STORM SEWERS AND DITCHES WILL BE INSTALLED DURING CONSTRUCTION OF THE EXCAVATION AND EMBANKMENT TO ALLOW FOR PROPER DRAINAGE DURING AND AFTER CONSTRUCTION.
- CONSTRUCT EROSION CONTROL FOR CONSTRUCTION AND FINAL CONDITION.



FILE NAME = DBTRI-76C50-shvt-staging-01.dgn	USER NAME = pmsarno	DESIGNED OP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL</b>	F.A.P. RTE. 998	SECTION 82-1-2HB	COUNTY ST. CLAIR	TOTAL SHEETS 72	SHEET NO. 20		
PLOT SCALE = 100.0000' / 1" = 100'	DRAWN PHP/OP	CHECKED DBM	REVISED -			SCALE: 1"=50'	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 76C50		
PLOT DATE = #DATE#	DATE 03-18-11		REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						



**LEGEND:**

- CONSTRUCTION WORK ZONE
- TYPE II BARRICADES OR DRUMS WITH STEADY BURNING LIGHT @ SPECIFIED SPACING
- SIGN LOCATION
- TYPE III BARRICADES
- DIRECTION OF TRAFFIC

FILE NAME = D8TRI-76C50-sht-staging-02.dgn	USER NAME = searsb	DESIGNED OP	REVISED -
		DRAWN PHP/OP	REVISED -
		CHECKED DBM	REVISED -
		DATE 03-18-11	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED STAGES OF CONSTRUCTION AND  
TRAFFIC CONTROL**

SCALE: 1"=50'    SHEET NO. 2 OF 2 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-2HB	ST. CLAIR	72	21
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 76C50		



**EROSION CONTROL SCHEDULE**

STATION TO	STATION	MULCH, METHOD 2	TEMPORARY EROSION	TEMPORARY DITCH	PERIMETER EROSION
		(NOTE 1)	CONTROL SEEDING	CHECKS	BARRIER
ACRE	POUND	FOOT	FOOT		
190+92.60 TO	84+97.91	7.00	1,368	67	2,870
<b>TOTALS</b>		<b>7.00</b>	<b>1,368</b>	<b>67</b>	<b>2,870</b>

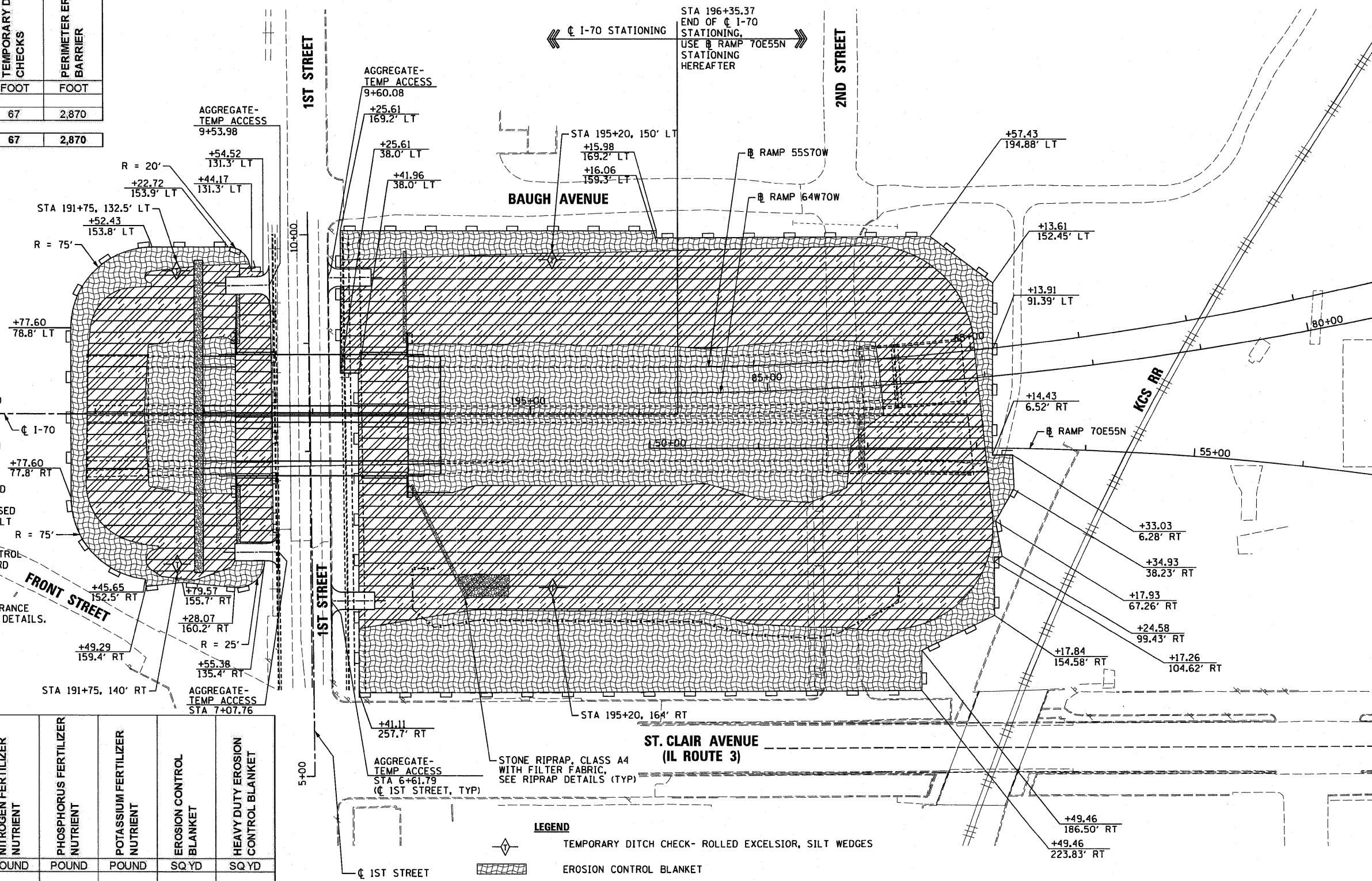
NOTE:  
1. MULCH, METHOD 2 TOTAL IS ROUNDED TO THE NEAREST 0.25 ACRE

- NOTES:**
- THE CONTRACTOR SHALL INSTALL THE HEAVY DUTY EROSION CONTROL BLANKET WHERE THE GRADING SLOPES ARE AT 3:1 OR STEEPER, OTHERWISE USE EROSION CONTROL BLANKET.
  - STRAW BALES, HAY BALES, PERIMETER EROSION BARRIER AND SILT FENCE WILL NOT BE PERMITTED FOR TEMPORARY OR PERMANENT DITCH CHECKS. DITCH CHECKS SHALL BE COMPOSED OF AGGREGATE (IF SPECIFIED), ENVIROBERM, TRIANGULAR SILT DIKES, GEORIDGE AND ROLLED EXCELSIOR.
  - MULCH METHOD 2 AS APPLIED TO TEMPORARY EROSION CONTROL SEEDING, SHALL CONFORM TO SECTION 251 OF THE STANDARD SPECIFICATIONS. MULCH METHOD 2 WILL BE PAID FOR SEPARATELY.
  - SEE ROADWAY DETAILS FOR STABILIZED CONSTRUCTION ENTRANCE DETAILS (AGGREGATE FOR TEMPORARY ACCESS) AND RIPRAP DETAILS.
  - SEE ROADWAY DETAIL SHEET FOR AGGREGATE FOR TEMPORARY ACCESS QUANTITY.

**SEEDING SCHEDULE**

SHEET	STATION TO	STATION	SEEDING CLASS 2A	NITROGEN FERTILIZER	PHOSPHORUS FERTILIZER	POTASSIUM FERTILIZER	EROSION CONTROL	HEAVY DUTY EROSION
			(NOTE 1)	NUTRIENT	NUTRIENT	NUTRIENT	BLANKET	CONTROL BLANKET
ACRE	POUND	POUND	POUND	SQ YD	SQ YD			
PLAN-1	190+92.60 TO	195+75.00	2.81	254	254	254	5,473	7,807
PLAN-2	195+75.00 TO	84+97.91	2.35	212	212	212	4,469	6,885
PLAN-3	7+00.00 TO	END	1.67	151	151	151	4,342	3,709
<b>TOTALS</b>			<b>7.00</b>	<b>617</b>	<b>617</b>	<b>617</b>	<b>14,284</b>	<b>18,401</b>

NOTE:  
1. SEEDING CLASS 2A TOTAL IS ROUNDED TO THE NEAREST 0.25 ACRE



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

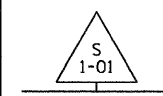
EROSION CONTROL PLAN AND SCHEDULE

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

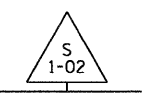
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-2HB	ST. CLAIR	72	24
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FILE NAME	USER NAME	DESIGNED	OP	REVISED	
DBTRI-76C50-sht-eros-03.dgn	pmsarno	PHP/OP		REVISED	
		DBM		REVISED	
		DATE	03-18-11	REVISED	

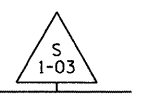




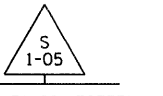
STA 194+75 (7OCL)  
O/S 131.15' LT  
PRECAST REINFORCED CONCRETE  
FLARED END SECTIONS 36"  
SW. INV (30''): 415.30



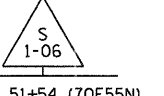
STA 194+75 (7OCL)  
O/S 148.54' RT  
PRECAST REINFORCED CONCRETE  
FLARED END SECTIONS 36"  
NE. INV (30''): 415.00



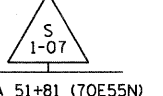
STA 194+31.30 (7OCL)  
O/S 165.00' RT  
PRECAST REINFORCED CONCRETE  
FLARED END SECTIONS 42"  
E. INV (42''): 414.88



STA 51+98 (7OE55N)  
O/S 190' LT  
MANHOLES, SANITARY, 5'-DIAM.  
TYPE 1 FRAME, CL  
RIM 418.02  
NW. INV (21''): 410.36  
NE. INV (18''): 410.36 (EX.)

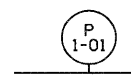
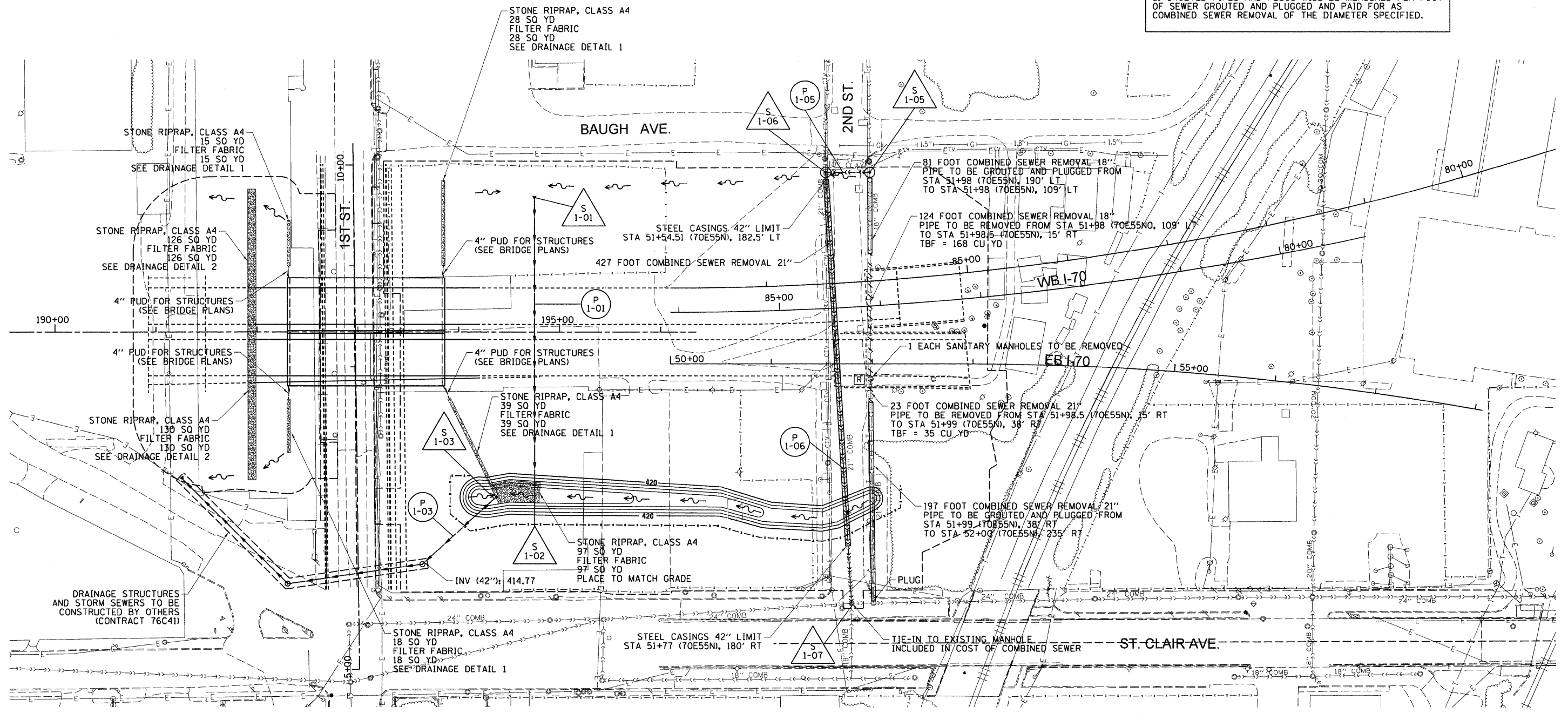


STA 51+54 (7OE55N)  
O/S 189.5' LT  
MANHOLES, SANITARY, 5'-DIAM.  
TYPE 1 FRAME, CL  
RIM 418.09  
SE. INV (21''): 410.34  
SW. INV (24''): 410.34  
NE. INV (21''): 410.90 (EX.)

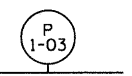


STA 51+81 (7OE55N)  
O/S 237' RT  
EXISTING SANITARY MANHOLE  
RIM 420.96  
NE. INV (24''): 410.00  
NW. INV (24''): 410.08 (EX.)  
SE. INV (24''): 410.00 (EX.)  
SW. INV (18''): 410.05 (EX.)

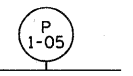
- NOTES:**
1. MANHOLE STRUCTURE OFFSETS ARE TAKEN FROM THE ROADWAY CENTERLINE TO THE CENTER OF THE STRUCTURE. FLARED END SECTION OFFSETS ARE TO THE END OF PIPE.
  2. SEE DRAINAGE DETAILS 1 AND 2 FOR RIPRAP DETAILS.
  3. TRENCH BACKFILL FOR THE PROPOSED COMBINED SEWERS AND EXISTING COMBINED SEWERS TO BE REMOVED SHALL BE PROVIDED FOR THE ALLOWED TRENCH LIMITS TO THE TOP OF THE EXISTING GROUND.
  4. TRENCH BACKFILL FOR PIPE P 1-01 SHALL BE PROVIDED FOR THE ALLOWED TRENCH LIMITS TO A GROUND ELEVATION OF 421.00.
  5. GROUDED PIPES AND PLUGS WILL BE MEASURED PER FOOT OF SEWER GROUDED AND PLUGGED AND PAID FOR AS COMBINED SEWER REMOVAL OF THE DIAMETER SPECIFIED.



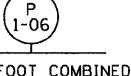
280 FOOT PIPE CULVERTS,  
CLASS A, TYPE 7 36" @ 0.10%  
TBF = 81 CU YD (SEE NOTE 4)



96 FOOT STORM SEWERS,  
CLASS A, TYPE 1 42" @ 0.11%  
TBF = 0 CU YD



44 FOOT COMBINED SEWERS,  
CLASS A, TYPE 2 21" @ 0.05%  
TBF = 55 CU YD (SEE NOTE 3)



427 FOOT COMBINED SEWERS,  
CLASS A, TYPE 7 24" @ 0.02%  
363 FOOT STEEL CASINGS 42"  
TBF = 702 CU YD (SEE NOTE 3)  
SEE DRAINAGE DETAIL 3

FILE NAME = DBtr1_Dor_Sht_Drn_01.dgn	USER NAME = kukukak	DESIGNED KLK	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DRAINAGE AND UTILITY PLAN</b>	F.A.P. RTE. 998	SECTION 82-1-2HB	COUNTY ST. CLAIR	TOTAL SHEETS 72	SHEET NO. 25	
PLOT SCALE = 100.000' / 1"	CHECKED DBM/EEY	REVISOR -	SCALE: 1"=50'			SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 76C50	
PLOT DATE = 4/6/2011	DATE 04-06-11	REVISOR -									



**SUGGESTED LOCATIONS FOR EMBANKMENT  
CONSTRUCTION AND MONITORING**

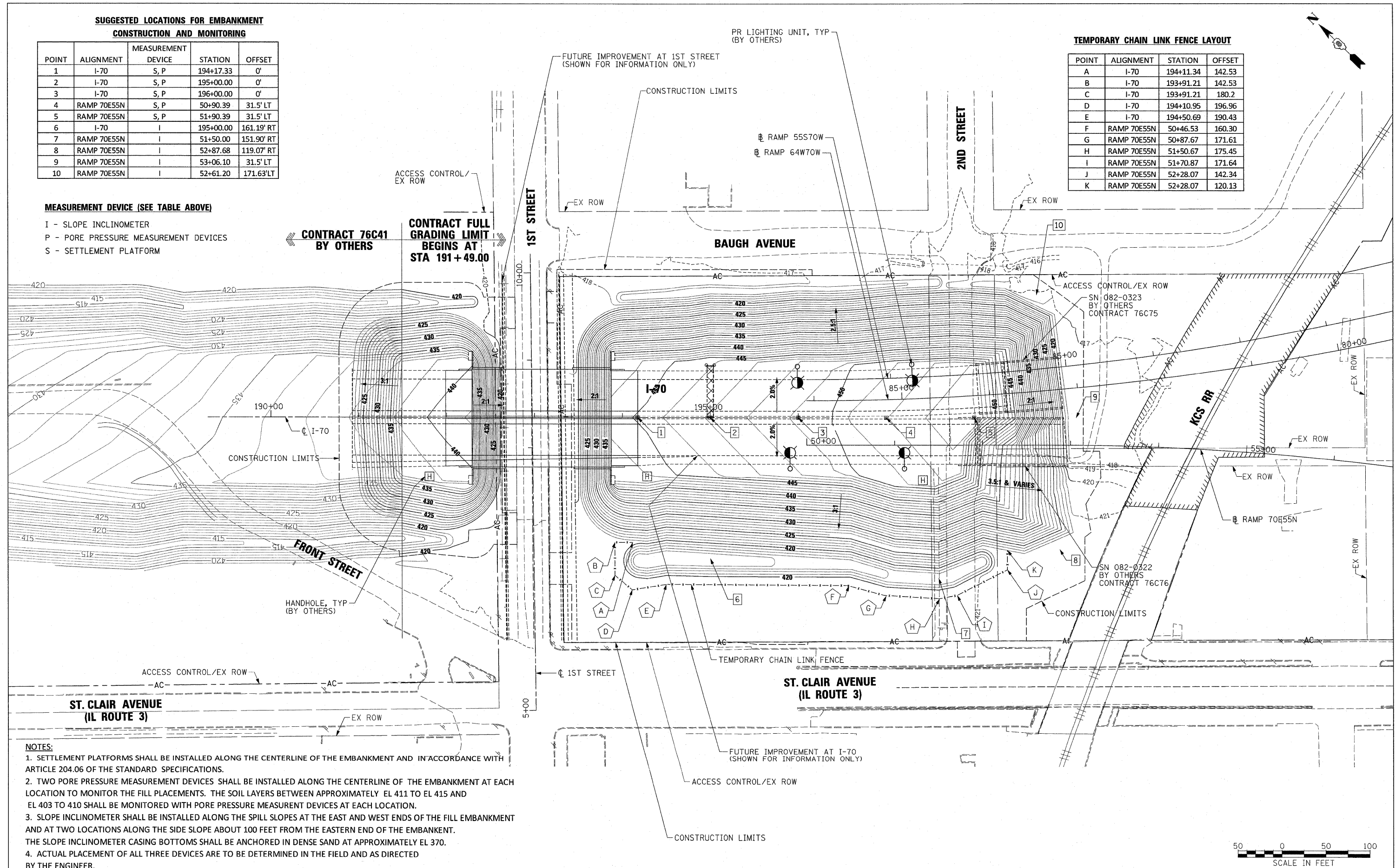
POINT	ALIGNMENT	MEASUREMENT DEVICE	STATION	OFFSET
1	I-70	S, P	194+17.33	0'
2	I-70	S, P	195+00.00	0'
3	I-70	S, P	196+00.00	0'
4	RAMP 70E55N	S, P	50+90.39	31.5' LT
5	RAMP 70E55N	S, P	51+90.39	31.5' LT
6	I-70	I	195+00.00	161.19' RT
7	RAMP 70E55N	I	51+50.00	151.90' RT
8	RAMP 70E55N	I	52+87.68	119.07' RT
9	RAMP 70E55N	I	53+06.10	31.5' LT
10	RAMP 70E55N	I	52+61.20	171.63' LT

**MEASUREMENT DEVICE (SEE TABLE ABOVE)**

- I - SLOPE INCLINOMETER
- P - PORE PRESSURE MEASUREMENT DEVICES
- S - SETTLEMENT PLATFORM

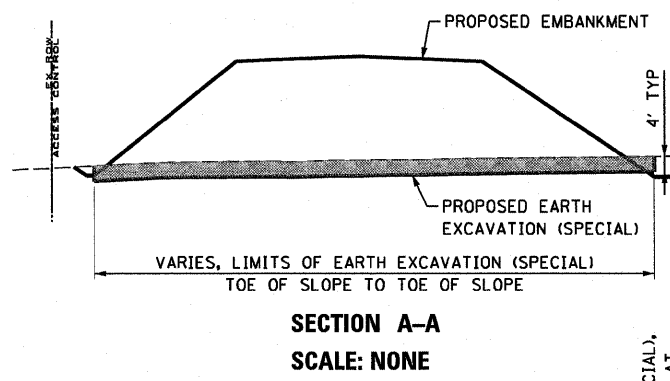
**TEMPORARY CHAIN LINK FENCE LAYOUT**

POINT	ALIGNMENT	STATION	OFFSET
A	I-70	194+11.34	142.53
B	I-70	193+91.21	142.53
C	I-70	193+91.21	180.2
D	I-70	194+10.95	196.96
E	I-70	194+50.69	190.43
F	RAMP 70E55N	50+46.53	160.30
G	RAMP 70E55N	50+87.67	171.61
H	RAMP 70E55N	51+50.67	175.45
I	RAMP 70E55N	51+70.87	171.64
J	RAMP 70E55N	52+28.07	142.34
K	RAMP 70E55N	52+28.07	120.13



- NOTES:**
1. SETTLEMENT PLATFORMS SHALL BE INSTALLED ALONG THE CENTERLINE OF THE EMBANKMENT AND IN ACCORDANCE WITH ARTICLE 204.06 OF THE STANDARD SPECIFICATIONS.
  2. TWO PORE PRESSURE MEASUREMENT DEVICES SHALL BE INSTALLED ALONG THE CENTERLINE OF THE EMBANKMENT AT EACH LOCATION TO MONITOR THE FILL PLACEMENTS. THE SOIL LAYERS BETWEEN APPROXIMATELY EL 411 TO EL 415 AND EL 403 TO 410 SHALL BE MONITORED WITH PORE PRESSURE MEASUREMENT DEVICES AT EACH LOCATION.
  3. SLOPE INCLINOMETER SHALL BE INSTALLED ALONG THE SPILL SLOPES AT THE EAST AND WEST ENDS OF THE FILL EMBANKMENT AND AT TWO LOCATIONS ALONG THE SIDE SLOPE ABOUT 100 FEET FROM THE EASTERN END OF THE EMBANKMENT. THE SLOPE INCLINOMETER CASING BOTTOMS SHALL BE ANCHORED IN DENSE SAND AT APPROXIMATELY EL 370.
  4. ACTUAL PLACEMENT OF ALL THREE DEVICES ARE TO BE DETERMINED IN THE FIELD AND AS DIRECTED BY THE ENGINEER.

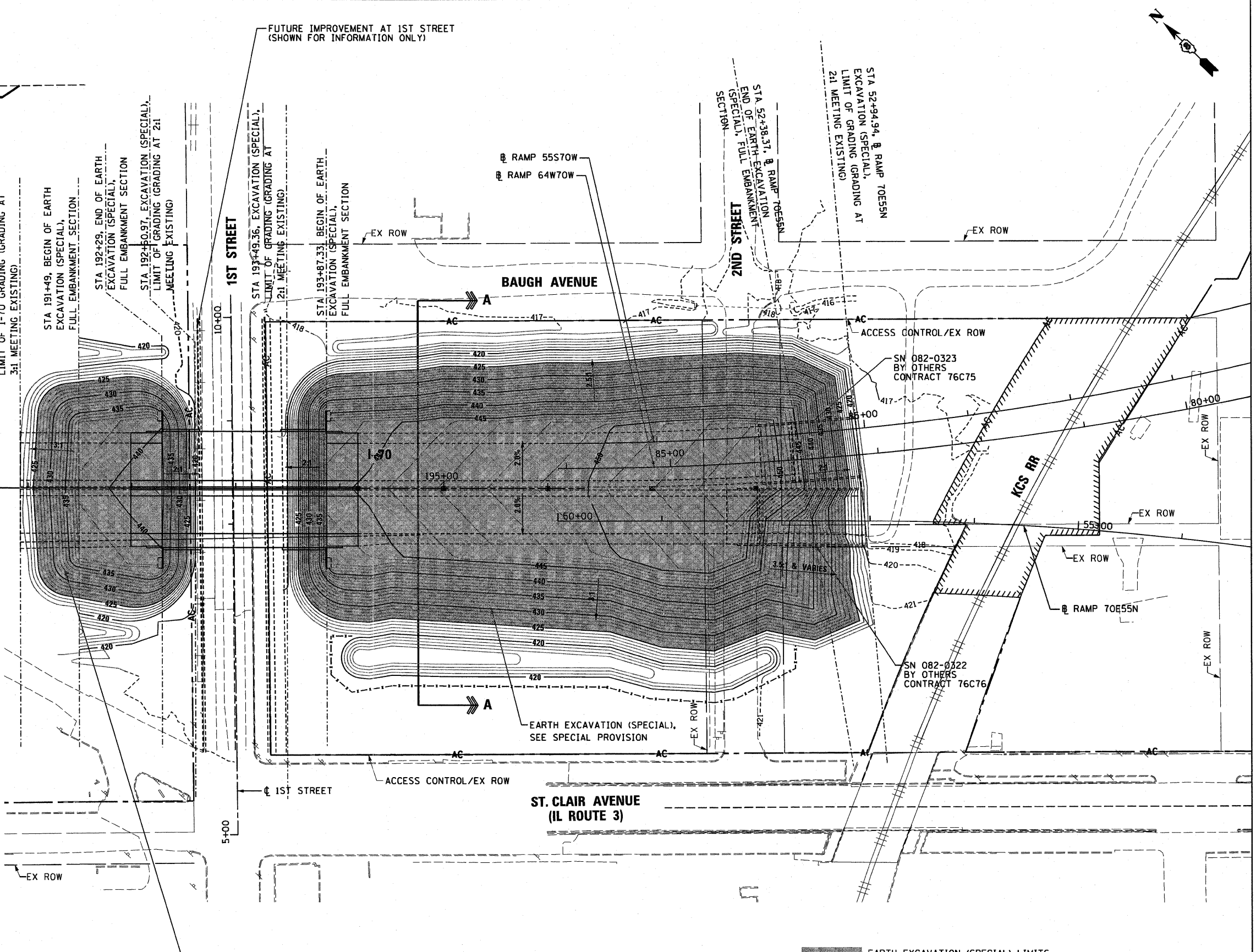




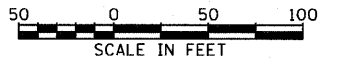
**EARTHWORK SCHEDULE**

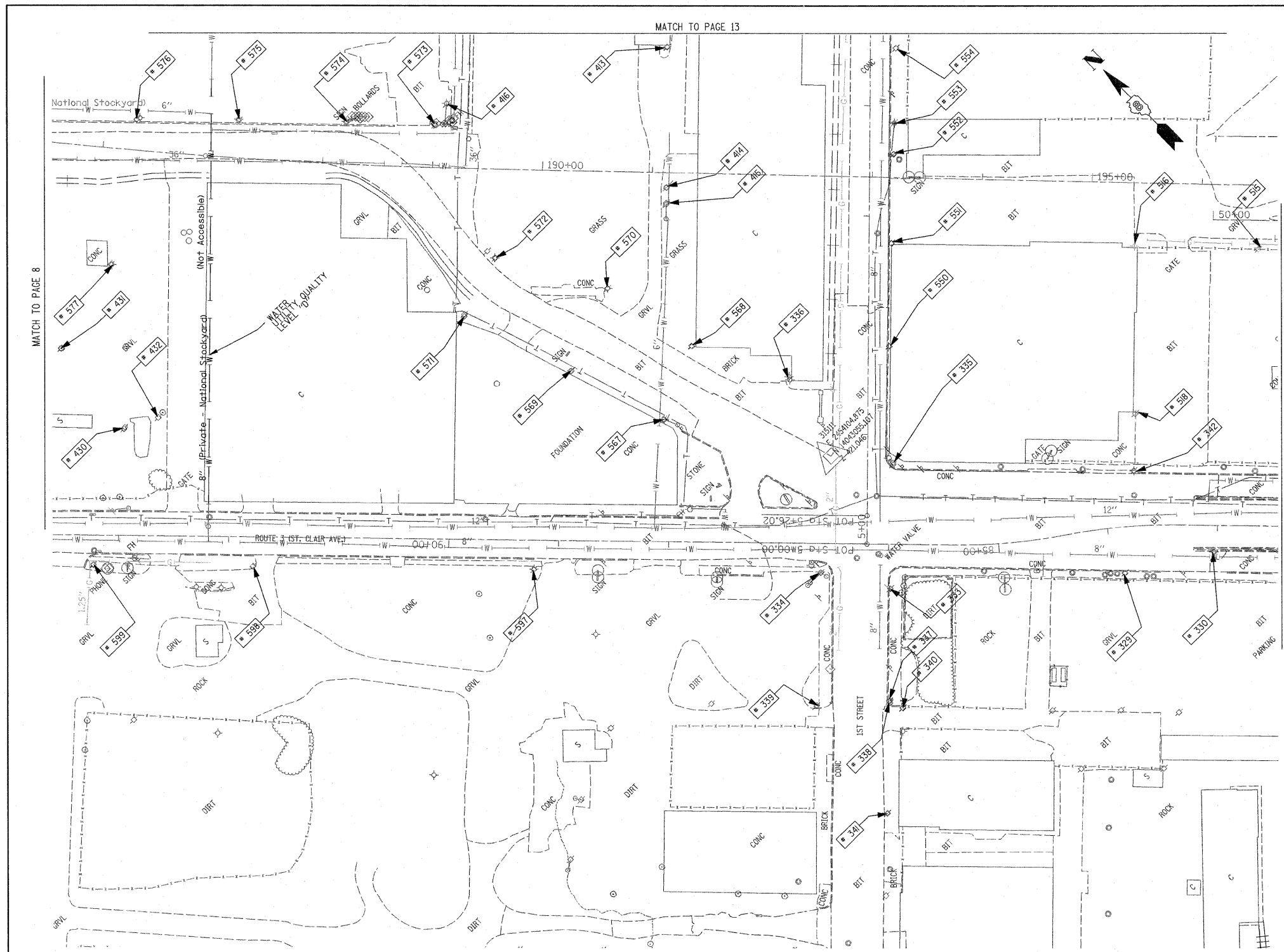
ALIGNMENT	STATION	TO	STATION	EARTH EXCAVATION (SPECIAL) CU YD	
I-70	190+92.60	TO	191+00.00	160	
	191+00.00	TO	191+50.00	1,801	
	191+50.00	TO	192+00.00	1,895	
	192+00.00	TO	192+29.00	1,057	
	192+29.00	TO	192+60.97	889	
	BRIDGE OMISSION				
	193+49.36	TO	193+87.33	1,093	
	193+87.33	TO	194+00.00	484	
	194+00.00	TO	194+15.00	634	
	194+15.00	TO	194+50.00	1,521	
194+50.00	TO	194+75.00	1,092		
194+75.00	TO	195+00.00	1,105		
195+00.00	TO	195+50.00	2,227		
195+50.00	TO	196+00.00	2,248		
196+00.00	TO	196+35.36	1,605		
70E55N	50+25.76	TO	50+50.00	1,105	
	50+50.00	TO	51+00.00	2,343	
	51+00.00	TO	51+50.00	2,430	
	51+50.00	TO	51+65.34	756	
	51+65.34	TO	52+00.00	1,650	
	52+00.00	TO	52+34.14	1,753	
	52+34.14	TO	53+06.36	1,442	
<b>TOTALS</b>				<b>29,290</b>	
<b>ROUNDED TOTALS</b>				<b>29,290</b>	

**NOTE:**  
THE EARTH EXCAVATION (SPECIAL) TOTALS IS ROUNDED TO THE NEAREST 5 CU YD.



**EARTH EXCAVATION (SPECIAL) LIMITS, ALSO SEE SPECIAL PROVISION**





TBE Pole Number	Approximate Location	Identification # on Pole	Utilities Attached to Poles	Utility Owners	Notes: Additional Items Attached to Poles
329	242' CL FIRST & ST. CLAIR	19032	ELECTRIC / FIBER	AMEREN ELECTRIC	E.W. LIGHT
330	323' CL FIRST & ST. CLAIR	723648	ELECTRIC	AMEREN ELECTRIC	SW LIGHT
333	SW CORNER FIRST & ST. CLAIR	NO TAG	TELEPHONE	AT&T	
334	NW CORNER FIRST & ST. CLAIR	19033	ELECTRIC/FIBER	AMEREN ELECTRIC	LIGHT & GUY S.
335	SE CORNER FIRST & ST. CLAIR	726190	ELECTRIC	AMEREN ELECTRIC	2 GUY E.
336	NE CORNER FIRST & ST. CLAIR	739142	NO UTILITIES		LIGHT NW
337	153' S. OF ST. CLAIR	NO TAG	NO UTILITIES		
338	155' S. OF ST. CLAIR	723675	TELEPHONE, ELECTRIC	AT&T, AMEREN ELECTRIC	
339	156' S. OF ST. CLAIR	814	TELEPHONE	AT&T	
340	158' S. OF ST. CLAIR	NO TAG	NO UTILITIES		
341	207' S. OF ST. CLAIR	723684	TELEPHONE, ELECTRIC	AT&T, AMEREN ELECTRIC	TRANSFORMER
342	225' E. OF FIRST ON N SIDE ST. CLAIR	723646	ELECTRIC	AMEREN ELECTRIC	LIGHT N.S.
413	W. OF POLE 412	NO TAG	ELECTRIC	AMEREN ELECTRIC	
414	SW OF POLE 413	NO TAG	ELECTRIC	AMEREN ELECTRIC	
415	SW OF POLE 414	NO TAG	ELECTRIC	AMEREN ELECTRIC	GUY - SW
416	N OF POLE 414	NO TAG	TELEPHONE	AT&T	GUY - W
430	SW OF POLE 577	NO TAG	ELECTRIC	AMEREN ELECTRIC	ELECTRIC SERVICE
431	N OF POLE 430	NO TAG	ELECTRIC	AMEREN ELECTRIC	LIGHT, METER
432	S OF POLE 430	747040	ELECTRIC	AMEREN ELECTRIC	LIGHT
515	NW OF POLE 366	723644	NO UTILITIES		LIGHT
516	W OF POLE 391 NW OF POLE 515	NO TAG	ELECTRIC	AMEREN ELECTRIC	LIGHT
518	NE OF POLE 342	21 2488	ELECTRIC	AMEREN ELECTRIC	LIGHT
550	170' N OF ST. CLAIR & 1ST ST. CL ON E/S	726191	ELECTRIC, TELEPHONE	AT&T, AMEREN ELECTRIC	
551	255' N OF ST. CLAIR & 1ST ST. CL ON E/S	726192	ELECTRIC, TELEPHONE	AT&T, AMEREN ELECTRIC	
552	345' N OF ST. CLAIR & 1ST ST. CL ON E/S	726193	ELECTRIC, TELEPHONE	AT&T, AMEREN ELECTRIC	TRANSFORMER
553	373' N OF ST. CLAIR & 1ST ST. CL ON E/S	NO TAG	TELEPHONE	AT&T	
554	442' N OF ST. CLAIR & 1ST ST. CL ON E/S	726194	ELECTRIC, TELEPHONE	AT&T, AMEREN ELECTRIC	
567	197' N OF FRONT ST & 1ST ST. CL ON W/S OF FRONT	739143	ELECTRIC	AMEREN ELECTRIC	LIGHT
568	206' N OF FRONT ST & 1ST ST. CL ON E/S OF FRONT	739141	ELECTRIC	AMEREN ELECTRIC	
569	289' N OF FRONT ST & 1ST ST. CL ON W/S OF FRONT	NO TAG	ELECTRIC	AMEREN ELECTRIC	
570	297' N OF FRONT ST & 1ST ST. CL ON E/S OF FRONT	739140	ELECTRIC	AMEREN ELECTRIC	
571	398' N OF FRONT ST & 1ST ST. CL ON W/S OF FRONT	NO TAG	ELECTRIC	AMEREN ELECTRIC	
572	408' N OF FRONT ST & 1ST ST. CL ON E/S OF FRONT	739139	ELECTRIC	AMEREN ELECTRIC	LIGHT
573	529' N OF FRONT ST & 1ST ST. CL ON W/S OF FRONT	739137	ELECTRIC, TELEPHONE	AT&T, AMEREN ELECTRIC	LIGHT & GUY - S.E.
574	581' N OF FRONT ST & 1ST ST. CL ON E/S OF FRONT	739136	ELECTRIC, TELEPHONE	AT&T, AMEREN ELECTRIC	
575	677' N OF FRONT ST & 1ST ST. CL ON E/S OF FRONT	739135	ELECTRIC, TELEPHONE	AT&T, AMEREN ELECTRIC	LIGHT
576	767' N OF FRONT ST & 1ST ST. CL ON E/S OF FRONT	739134	ELECTRIC, TELEPHONE	AT&T, AMEREN ELECTRIC	
577	799' N OF FRONT ST & 1ST ST. CL ON W/S OF FRONT	747038	ELECTRIC	AMEREN ELECTRIC	LIGHT
597	301' W OF 1ST ST CL ON S/S OF ST. CLAIR	19034	ELECTRIC, FIBER	AMEREN ELECTRIC	LIGHT
598	556' W OF 1ST ST CL ON S/S OF ST. CLAIR	19035	ELECTRIC, FIBER	AMEREN ELECTRIC	LIGHT
599	701' W OF 1ST ST CL ON S/S OF ST. CLAIR	723694	ELECTRIC, FIBER	AMEREN ELECTRIC	LIGHT

UNKNOWN	UNKNOWN
ABANDONED SANITARY	ABANDONED SANITARY
FORCE MAIN	FORCE MAIN
FORCE MAIN (CL "D")	FORCE MAIN (CL "D")
CABLE TV	CABLE TV
CTV	CTV
TELEPHONE	TELEPHONE
GAS	GAS
GAS (CL "D")	GAS (CL "D")
ELECTRIC	ELECTRIC
WATER	WATER
WATER (CL "D")	WATER (CL "D")
FIBER OPTIC	FIBER OPTIC
FIBER OPTIC (CL "D")	FIBER OPTIC (CL "D")
WELL DRAINAGE	WELL DRAINAGE
UTILITY POLE	UTILITY POLE
TBE TEST HOLE	TBE TEST HOLE

Utilities shown in color on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others. TBE's SUE field investigation was finished on 5/22/09. Changes to utilities after this date may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

- Utility Quality Level "A" : Test Hole
- Utility Quality Level "B" : Designating
- Utility Quality Level "C" : Research with Survey
- Utility Quality Level "D" : Records Research

**TBE GROUP, INC.**  
 CIVIL ENGINEERING • TRANSPORTATION • ENVIRONMENTAL  
 PLANNING • UTILITY ENGINEERING/LOCATING

Checked By: \_\_\_\_\_ Date: \_\_\_\_\_

TBE Job No. ILO5500601-602,603,604, 607,608,609  
 SUE Plan Page: 9 of 35

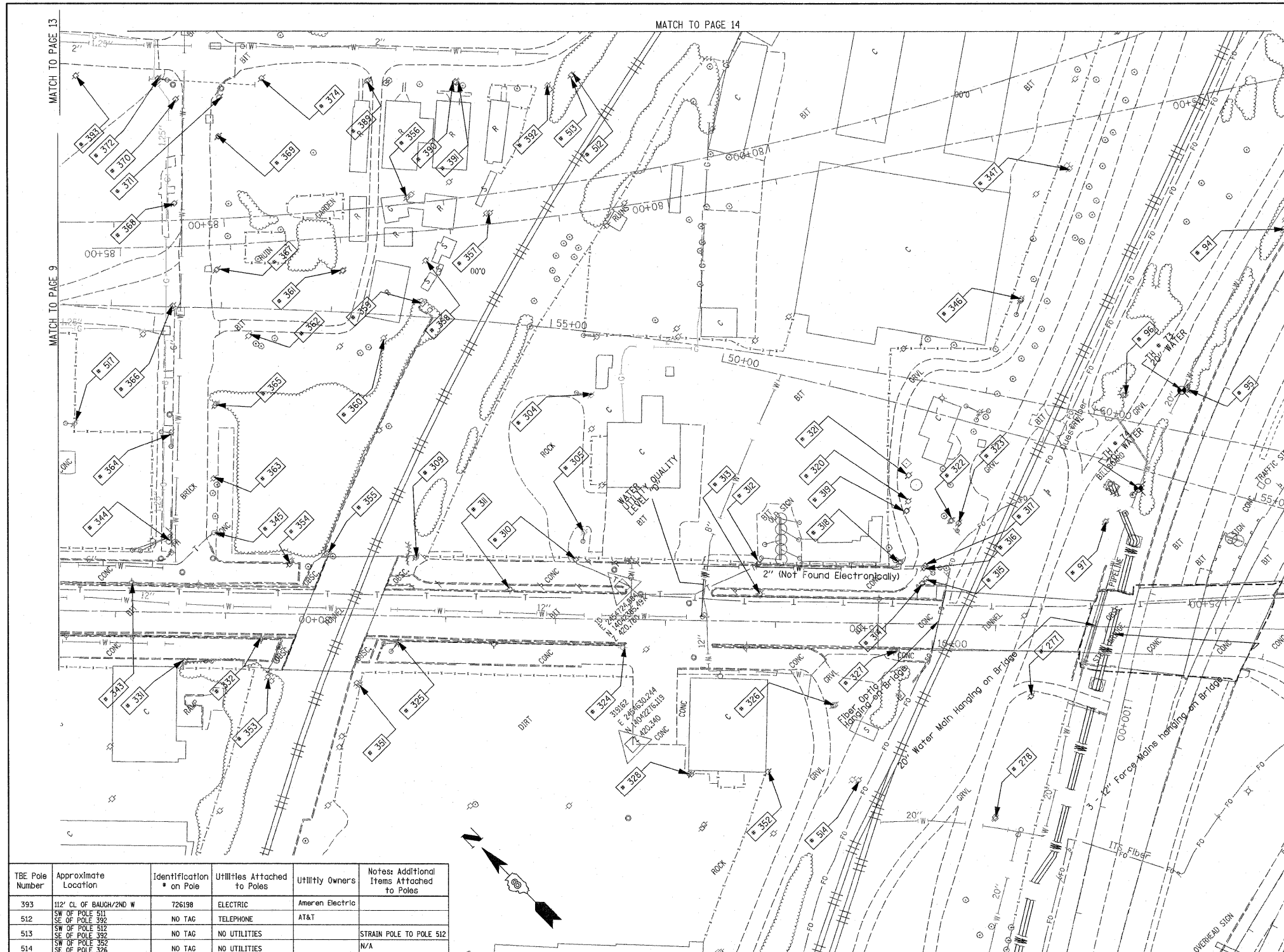
FILE NAME =	USER NAME =	DESIGNED EG, IP, LP	REVISED 7/28/09 - 8/26/09 ADDED TEST HOLES #60-108
#FILE#	PLOT SCALE = 1" = 50'	DRAWN KLC	REVISED
	PLOT DATE = #DATE#	CHECKED JB	REVISED
		DATE 9/15/09	REVISED

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**Mississippi River Bridge Project**

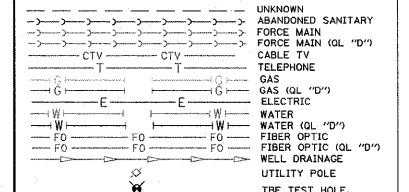
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		St. Clair	72	27
PTB NO. 147-038				
FED. ROAD DIST. NO. ILLINOIS Job No. D-98-061-08				





TBE Pole Number	Approximate Location	Identification # on Pole	Utilities Attached to Poles	Utility Owners	Notes: Additional Items Attached to Poles
94	742' N. OF 7TH ST. CL	NO TAG	NO UTILITIES		ABANDONED WOODEN POLE
95	921' N. OF 7TH ST. CL	NO TAG	NO UTILITIES		ABANDONED WOODEN POLE
96	957' N. OF 7TH ST. CL (NE OF POLE 95)	NO TAG	NO UTILITIES		ABANDONED WOODEN POLE
97	1069' N. OF 7TH ST. CL	NO TAG	ELECTRIC	AMEREN ELECTRIC	ELECTRIC TO BILLBOARD
277	W. OF POLE 97	NO TAG	ELECTRIC	AMEREN ELECTRIC	ELECTRIC SERVICE
278	180' S.W. COLLINSVILLE AVE. AT ST. CLAIR	NO TAG	ELECTRIC	AMEREN ELECTRIC	ELECTRIC - N.S.
304	NE CORNER OF 225 BUILDING ON ST. CLAIR ST.	726278	ELECTRIC	AMEREN ELECTRIC	TRANSFORMER, LIGHT, GUY TO S.
305	SW CORNER OF 225 BUILDING ON ST. CLAIR ST.	NO TAG	ELECTRIC, TELEPHONE	AT&T, AMEREN ELECTRIC	TRANSFORMER, LIGHT, GUY TO S.
309	N. OF POLE #310	NO TAG	ELECTRIC	AMEREN ELECTRIC	GUY TO E.
310	W. OF POLE #305	NO TAG	ELECTRIC, TELEPHONE	AT&T, AMEREN ELECTRIC	TELEPHONE DROP
311	N.W. OF POLE #310	726275	ELECTRIC	AMEREN ELECTRIC	LIGHT
312	S. OF POLE #310	726282	ELECTRIC, TELEPHONE	AT&T, AMEREN ELECTRIC	TELEPHONE DROP
313	W. OF POLE #312	E1637	ELECTRIC	AMEREN ELECTRIC	LIGHT
314	SE OF POLE #313	726284	ELECTRIC	AMEREN ELECTRIC	TRANSFORMER, METER
315	W. OF POLE #316 NEXT TO POLE #314	726285	ELECTRIC, TELEPHONE	AT&T, AMEREN ELECTRIC	METER
316	S. OF POLE #318 NEXT TO POLE #317	NO TAG	NO UTILITIES		
317	E. OF POLE #314	726283	TELEPHONE, ELECTRIC	AT&T, AMEREN ELECTRIC	TRANSFORMER, GUY TO S., TELEPHONE DROP
318	S. OF POLE #312	NO TAG	TELEPHONE	AT&T	
319	E. OF POLE #318	NO TAG	TELEPHONE	AT&T	
320	E. OF POLE #319	NO TAG	NO UTILITIES		
321	E. OF POLE #320	NO TAG	ELECTRIC, TELEPHONE	AT&T, AMEREN ELECTRIC	GUY TO E., METER
322	S. OF POLE # 319	NO TAG	NO UTILITIES		GUY TO E.
323	S. OF POLE # 322	NO TAG	NO UTILITIES		GUY TO E.
324	S.W. OF POLE # 310	726298	ELECTRIC	AMEREN ELECTRIC	LIGHT
325	N. OF POLE # 324	726294	ELECTRIC	AMEREN ELECTRIC	GUY TO W., LIGHT
326	S.W. OF POLE # 313	726287	TELEPHONE, ELECTRIC	AT&T, AMEREN ELECTRIC	
327	N.W. OF POLE #326	726286	ELECTRIC	AMEREN ELECTRIC	LIGHT
328	S.W. OF POLE # 324	726289	ELECTRIC	AMEREN ELECTRIC	LIGHT
331	490' CL FIRST & ST. CLAIR	19031	ELECTRIC, FIBER	AMEREN ELECTRIC	GUY S.
332	S. 560' FIRST & ST. CLAIR	723647	ELECTRIC	AMEREN ELECTRIC	GUY S., ELECTRIC N.
343	445' S. OF ST. CLAIR	723645	LIGHT		LIGHT N.
344	N.W. CORNER 2ND & ST. CLAIR	19030	ELECTRIC, FIBER	AMEREN ELECTRIC	GUY W., LIGHT
345	N.E. CORNER 2ND & ST. CLAIR	NO TAG	NO UTILITIES		GUY S.W.
346	E. OF POLE 323/322	NO TAG	ELECTRIC	AMEREN ELECTRIC	LIGHT
347	E. OF POLE 346	NO TAG	TELEPHONE	AT&T	LIGHT
351	W. OF POLE 325	NO TAG	ELECTRIC	AMEREN ELECTRIC	LIGHT
352	S. OF POLE 328	726288	ELECTRIC	AMEREN ELECTRIC	LIGHT
353	S.W. OF POLE 332	NO TAG	TELEPHONE	AT&T	
354	E. OF POLE 332	726273	ELECTRIC	AMEREN ELECTRIC	
355	S. OF POLE 354	NO TAG	TELEPHONE	AT&T	GUY CUT OFF
356	N. OF POLE 357	737166	ELECTRIC	AMEREN ELECTRIC	ELECTRIC SERVICE
357	S. OF POLE 356	NO TAG	TELEPHONE	AT&T	TELEPHONE CUT
358	W. OF POLE 357	737167	ELECTRIC	AMEREN ELECTRIC	ELECTRIC SERVICE CUT
359	W. OF POLE 358	NO TAG	TELEPHONE	AT&T	
360	N.E. OF POLE 359	737168	NO UTILITIES		GUY E.
361	E. OF POLE 360	NO TAG	NO UTILITIES		
362	W. OF POLE 361	737169	NO UTILITIES		
363	89' OF CL 2ND/N ST. CLAIR	NO TAG	TELEPHONE	AT&T	
364	127' OF CL 2ND/N ST. CLAIR	19029	TELEPHONE, ELECTRIC	AT&T, AMEREN ELECTRIC	LIGHT
365	152' OF CL OF 2ND/N ST. CLAIR	NO TAG	TELEPHONE	AT&T	
366	244' CL OF 2ND/N ST. CLAIR	19028	TELEPHONE, ELECTRIC	AT&T, AMEREN ELECTRIC	ALL UTILITIES
367	276' CL OF 2ND/N ST. CLAIR	NO TAG	TELEPHONE	AT&T	
368	338' CL OF 2ND/N ST. CLAIR	19027	ELECTRIC, TELEPHONE	AT&T, AMEREN ELECTRIC	TRANSFORMER
369	399' CL OF 2ND/N ST. CLAIR	NO TAG	TELEPHONE	AT&T	
370	434' CL OF 2ND/N ST. CLAIR	19026	TELEPHONE, ELECTRIC	AT&T, AMEREN ELECTRIC	LIGHT
371	434' CL OF 2ND/N ST. CLAIR	NO TAG	TELEPHONE	AT&T	
372	N.W. CORNER OF BAUGH/2ND	726199	ELECTRIC	AMEREN ELECTRIC	
374	S.W. CORNER OF BAUGH/2ND	737162	TELEPHONE	AT&T	
389	158' CL OF BAUGH/2ND E	737163	TELEPHONE	AT&T	
390	237' CL OF BAUGH/2ND E	NO TAG	TELEPHONE	AT&T	
391	238' CL OF BAUGH/2ND E	737164	TELEPHONE	AT&T	
392	327' CL OF BAUGH/2ND E	737165	TELEPHONE	AT&T	GUY E., LIGHT

TBE Pole Number	Approximate Location	Identification # on Pole	Utilities Attached to Poles	Utility Owners	Notes: Additional Items Attached to Poles
393	112' CL OF BAUGH/2ND W	726198	ELECTRIC	Ameren Electric	
512	SW OF POLE 511	NO TAG	TELEPHONE	AT&T	
513	SE OF POLE 512	NO TAG	NO UTILITIES		STRAIN POLE TO POLE 512
514	SW OF POLE 512	NO TAG	NO UTILITIES		N/A
517	W OF POLE 366	NO TAG	NO UTILITIES		LIGHT



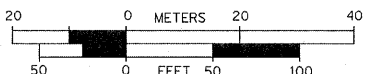
Utilities shown in color on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others. TBE's SUE field investigation was finished on 5/22/09. Changes to utilities after this date may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

- Utility Quality Level "A" : Test Hole
- Utility Quality Level "B" : Designating
- Utility Quality Level "C" : Research with Survey
- Utility Quality Level "D" : Records Research



**TBE GROUP, INC.**  
 CIVIL ENGINEERING • TRANSPORTATION • ENVIRONMENTAL  
 PLANNING • UTILITY ENGINEERING/LOCATING



Checked By: \_\_\_\_\_ Date: \_\_\_\_\_  
 TBE Job No. IL09500601.602.603.604. 607.608.609  
 SUE Plan Page: 10 of 35

FILE NAME =	USER NAME =	DESIGNED <i>EG, IP, LP</i>	REVISED 7/28/09 - 8/26/09 ADDED TEST HOLES #60-108
#FILE#	PLOT SCALE = 1" = 50'	DRAWN <i>KLC</i>	REVISED
	PLOT DATE = #DATE#	CHECKED <i>JB</i>	REVISED
		DATE 9/15/09	REVISED

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**Mississippi River Bridge Project**

SCALE:	SHEET NO.	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.
		St. Clair	72 28
FED. ROAD DIST. NO. ILLINOIS Job No. D-98-061-08			PTB NO. 147-038



PART OF THE SE 1/4 OF SECTION 12, T2N, R10W OF THE 3RD PM, ST. CLAIR COUNTY, ILLINOIS

PROP. CURVE 55S70W-4  
 PI STA. = 81+39.12  
 Δ = 26° 52' 21" (RT)  
 T = 681.35'  
 L = 1,337.63'  
 R = 2,852.00'  
 C = 1,325.40'  
 C.B. = N 57° 38' 38" W  
 P.C. STA. = 74+57.77  
 P.T. STA. = 87+95.40

PROP. CURVE 70E55N-1  
 PI STA. = 55+45.93  
 Δ = 10° 06' 07" (RT)  
 T = 351.42'  
 L = 701.02'  
 R = 3,976.00'  
 C = 700.12'  
 C.B. = S 39° 10' 32" E  
 P.C. STA. = 51+94.50  
 P.T. STA. = 58+95.53

"A"  
**DUTCHER'S SUBDIVISION**  
 (PLAT BOOK D PAGE 157)  
 Recorded Date OCTOBER 24, 1884

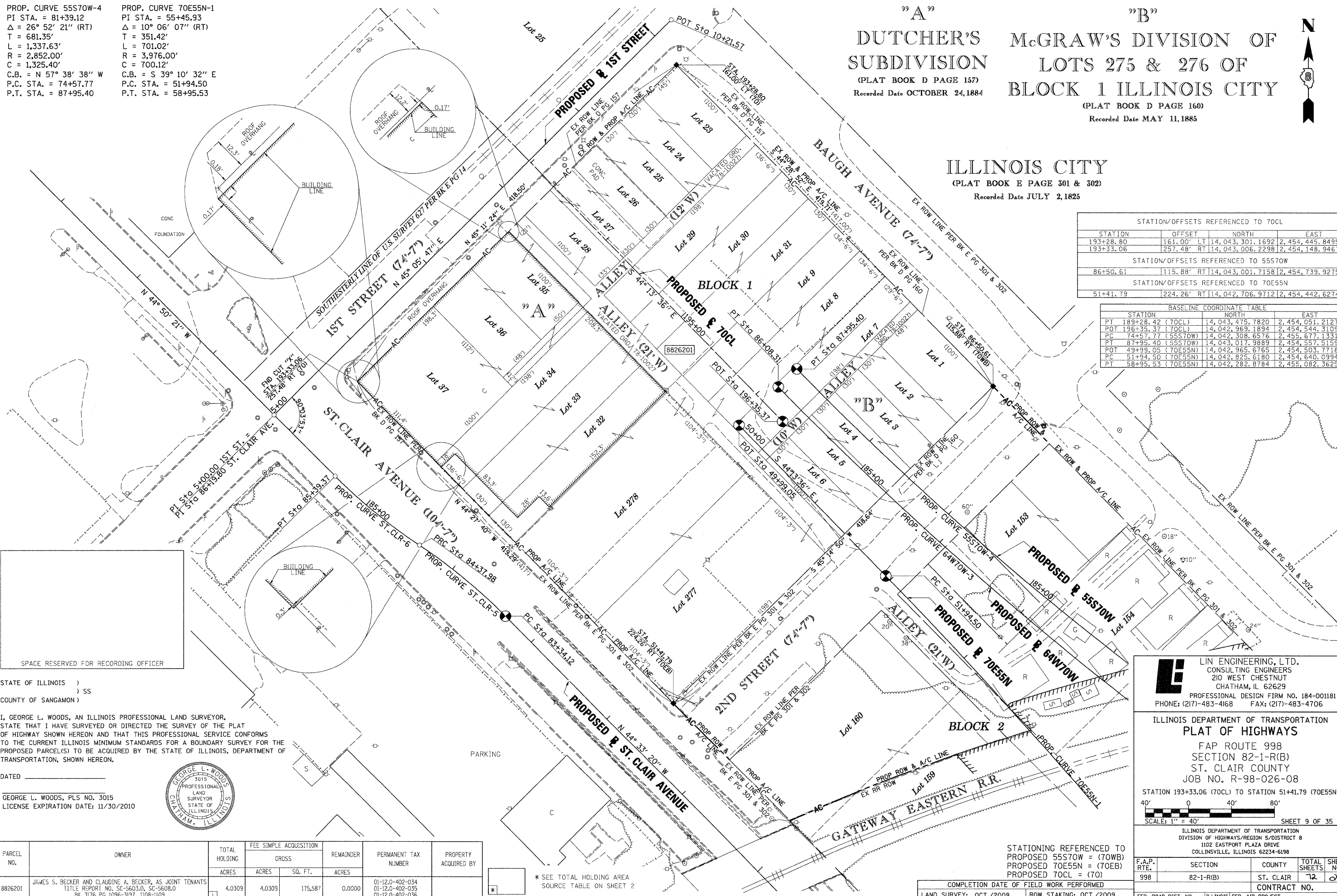
"B"  
**McGRAW'S DIVISION OF LOTS 275 & 276 OF BLOCK 1 ILLINOIS CITY**  
 (PLAT BOOK D PAGE 160)  
 Recorded Date MAY 11, 1885



**ILLINOIS CITY**  
 (PLAT BOOK E PAGE 301 & 302)  
 Recorded Date JULY 2, 1825

STATION/OFFSETS REFERENCED TO 70CL			
STATION	OFFSET	NORTH	EAST
193+28.80	161.00' LT	14,043,301.1692	2,454,445.8495
193+33.06	257.48' RT	14,043,006.2298	2,454,148.9467
STATION/OFFSETS REFERENCED TO 55S70W			
86+50.61	115.88' RT	14,043,001.7158	2,454,739.9275
STATION/OFFSETS REFERENCED TO 70E55N			
51+41.79	224.26' RT	14,042,706.9712	2,454,442.6274

BASELINE COORDINATE TABLE			
STATION		NORTH	EAST
PT 189+28.42 (70CL)		14,043,475.7820	2,454,051.2127
POT 196+35.37 (70CL)		14,042,969.1894	2,454,544.3109
PC 74+57.77 (55S70W)		14,042,308.6576	2,455,677.1331
PT 87+95.40 (55S70W)		14,043,017.9889	2,454,557.5159
POT 49+99.05 (70E55N)		14,042,965.6765	2,454,503.7718
PC 51+94.50 (70E55N)		14,042,825.6180	2,454,640.0994
PT 58+95.53 (70E55N)		14,042,282.8784	2,455,082.3625



SPACE RESERVED FOR RECORDING OFFICER

STATE OF ILLINOIS )  
 ) SS  
 COUNTY OF SANGAMON )

I, GEORGE L. WOODS, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED OR DIRECTED THE SURVEY OF 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 \_\_\_\_\_  
 GEORGE L. WOODS, PLS NO. 3015  
 LICENSE EXPIRATION DATE: 11/30/2010

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION		REMAINDER ACRES	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			GROSS ACRES	SQ. FT.			
8826201	JAMES S. BECKER AND CLAUDINE A. BECKER, AS JOINT TENANTS TITLE REPORT NO. SC-5603.0, SC-5608.0 BK 3176 PG 1096-3197, 1108-1109	4.0309	4.0309	175,587	0.0000	01-12.0-402-034 01-12.0-402-035 01-12.0-402-036	

\* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

STATIONING REFERENCED TO  
 PROPOSED 55S70W = (70WB)  
 PROPOSED 70E55N = (70EB)  
 PROPOSED 70CL = (70)

COMPLETION DATE OF FIELD WORK PERFORMED  
 LAND SURVEY: OCT./2009 ROW STAKING: OCT./2009

**Lin Engineering, Ltd.**  
 CONSULTING ENGINEERS  
 210 WEST CHESTNUT  
 CHATHAM, IL 62629  
 PROFESSIONAL DESIGN FIRM NO. 184-001181  
 PHONE: (217)-483-4168 FAX: (217)-483-4706

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
 FAP ROUTE 998  
 SECTION 82-1-R(B)  
 ST. CLAIR COUNTY  
 JOB NO. R-98-026-08

STATION 193+33.06 (70CL) TO STATION 51+41.79 (70E55N)  
 SCALE: 1" = 40' SHEET 9 OF 35

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-R(B)	ST. CLAIR	72	29

CONTRACT NO. \_\_\_\_\_  
 FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT

PLOT DATE = 10/19/2009  
 FILE NAME = #FILE#  
 PLOT SCALE = #SCALE#  
 USER NAME = #USER#

PART OF THE SE 14 OF SECTION 12, T2N, R10W OF THE 3RD PM, ST. CLAIR COUNTY, ILLINOIS

McGRAW'S DIVISION OF  
LOTS 275 & 276 OF  
BLOCK 1 ILLINOIS CITY

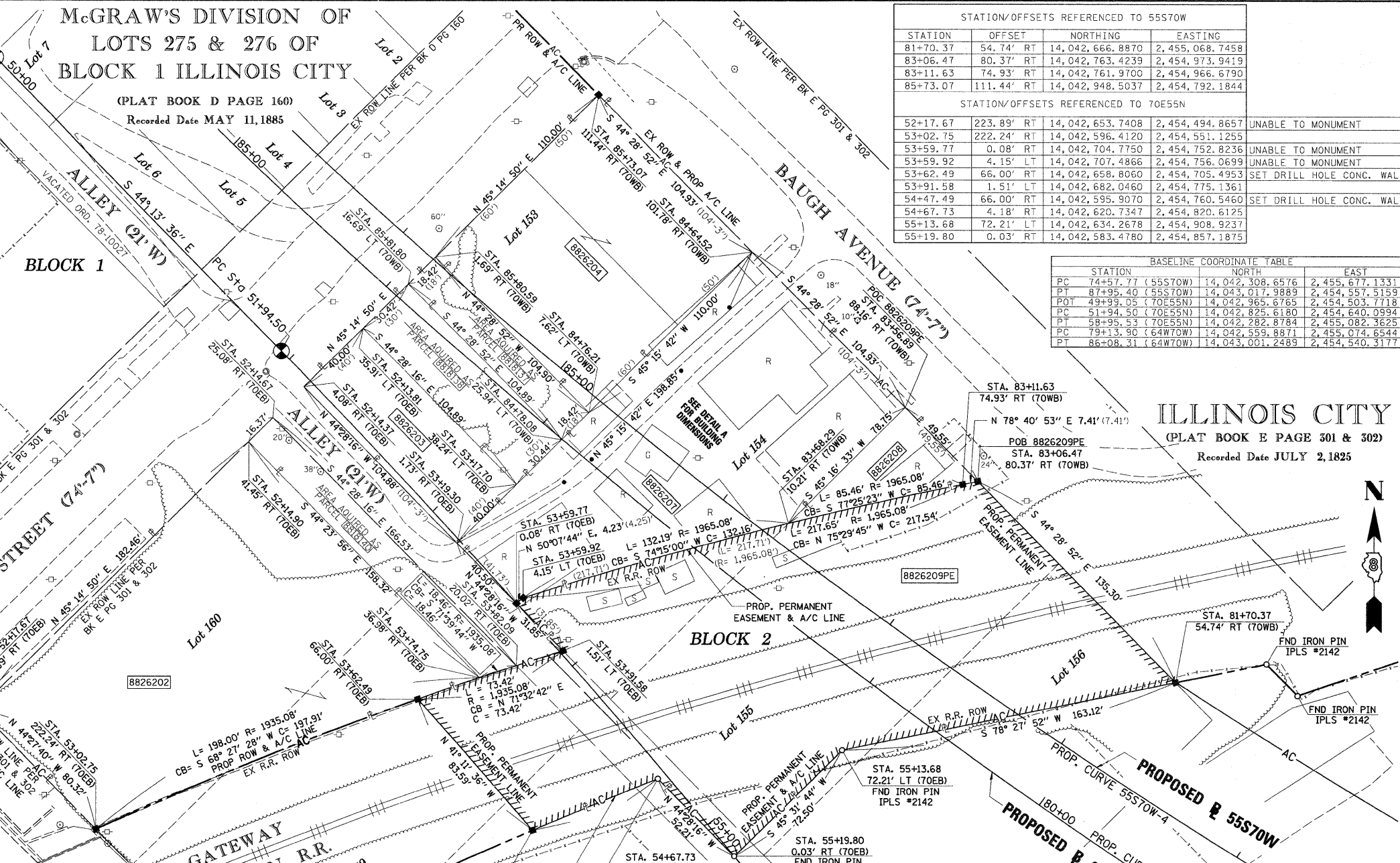
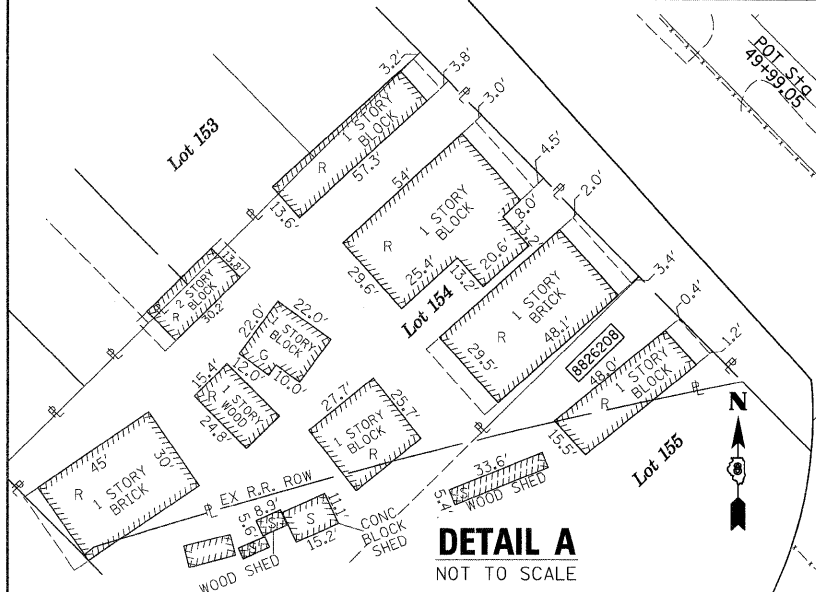
(PLAT BOOK D PAGE 160)  
Recorded Date MAY 11, 1885

STATION/OFFSETS REFERENCED TO 55S70W				
STATION	OFFSET	NORTHING	EASTING	
81+70.37	54.74' RT	14,042,666.8870	2,455,068.7458	
83+06.47	80.37' RT	14,042,763.4239	2,454,973.9419	
83+11.63	74.93' RT	14,042,761.9700	2,454,966.6790	
85+73.07	111.44' RT	14,042,948.5037	2,454,792.1844	

STATION/OFFSETS REFERENCED TO 70E55N				
STATION	OFFSET	NORTHING	EASTING	
52+17.67	223.89' RT	14,042,653.7408	2,454,494.8657	UNABLE TO MONUMENT
53+02.75	222.24' RT	14,042,596.4120	2,454,551.1255	
53+59.77	0.08' RT	14,042,704.7750	2,454,752.8236	UNABLE TO MONUMENT
53+59.92	4.15' LT	14,042,707.4866	2,454,756.0699	UNABLE TO MONUMENT
53+62.49	66.00' RT	14,042,658.8060	2,454,705.4953	SET DRILL HOLE CONC. WALL
53+91.58	1.51' LT	14,042,682.0460	2,454,775.1361	
54+47.49	66.00' RT	14,042,595.9070	2,454,760.5460	SET DRILL HOLE CONC. WALL
54+67.73	4.18' RT	14,042,620.7347	2,454,820.6125	
55+13.68	72.21' LT	14,042,634.2678	2,454,908.9237	
55+19.80	0.03' RT	14,042,583.4780	2,454,857.1875	

BASELINE COORDINATE TABLE				
STATION	NORTH	EAST		
PC 74+57.77 (55S70W)	14,042,308.6576	2,455,677.1331		
PT 87+95.40 (55S70W)	14,043,017.9889	2,454,557.5159		
POT 49+99.05 (70E55N)	14,042,965.6765	2,454,503.7718		
PC 51+94.50 (70E55N)	14,042,825.6180	2,454,640.0994		
PT 58+95.53 (70E55N)	14,042,282.8784	2,455,082.3625		
PC 79+13.90 (64W70W)	14,042,559.8871	2,455,074.6544		
PT 86+08.31 (64W70W)	14,043,001.2489	2,454,540.3177		

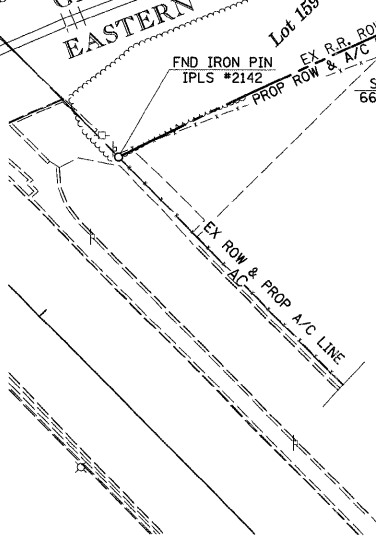


PROP. CURVE 55S70W-4  
PI STA. = 81+39.12  
Δ = 26° 52' 21" (RT)  
T = 681.35'  
L = 1,337.63'  
R = 2,852.00'  
C = 1,325.40'  
C.B. = N 57° 38' 38" W  
P.C. STA. = 74+57.77  
P.T. STA. = 87+95.40

PROP. CURVE 70E55N-1  
PI STA. = 55+45.93  
Δ = 10° 06' 07" (RT)  
T = 351.42'  
L = 701.02'  
R = 3,976.00'  
C = 700.12'  
C.B. = S 39° 10' 32" E  
P.C. STA. = 51+94.50  
P.T. STA. = 58+95.53

PARCEL NO.	OWNER	FEE SIMPLE ACQUISITION			REMAINDER	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		TOTAL HOLDING ACRES	GROSS ACRES	SQ. FT.			
8818137**	CHARLIE STOCK & GARY HUNTER TITLE REPORT NO. 199 SC-2607	0.0443	0.0443	1,932	0.0000	01-12-0-403-003	BK 3997 PG 1504-1507 A01827859
8818138**	ST. CLAIR COUNTY TRUSTEE TITLE REPORT NO. 199 SC-2611	0.0733	0.0733	3,191	0.0000	01-12-0-403-004	BK 4086 PG 1549-1551 A01868077
8818140**	MOUNT PISGAH MISSIONARY BAPTIST CHURCH INCORPORATED, A RELIGIOUS CORPORATION, TITLE REPORT NO. 199 SC-2612	0.5534	0.0614	2,676	0.4920	01-12-0-403-013	BK 4074 PG 2280-2282 A01862742
8826202	MOUNT PISGAH MISSIONARY BAPTIST CHURCH, A RELIGIOUS CORPORATION, TITLE REPORT NO. 199 SC-6151 BOOK 1911 PAGE 142	0.4920	0.4920	21,430	0.0000	01-12-0-403-013	
8826203	CHARLES STOCK AND GARY HUNTER, AS JOINT TENANTS TITLE REPORT NO. SC-5605.0 DOC. NO. A02108680	0.0963	0.0963	4,195	0.0000	01-12-0-403-005	
8826204	CHARLES STOCK AND GARY HUNTER, AS JOINT TENANTS TITLE REPORT NO. SC-5605.0 DOC. NO. A02108679	0.2649	0.2649	11,540	0.0000	01-12-0-403-001 01-12-0-403-002	
8826207	FREDERICK D. JONES TITLE REPORT NO. SC-5445.0 DOC. NO. A02015595	0.3853	0.3853	16,782	0.0000	01-12-0-403-006	
8826208	ST. CLAIR COUNTY AS TRUSTEE TITLE REPORT NO. SC-5621.0 BOOK 3907 PAGE 1591	0.0440	0.0440	1,918	0.0000	01-12-0-403-007	

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	REMAINDER ACRES	EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
				PE = PERMANENT ACRES	TE = TEMPORARY SQ. FT.		
8826209PE	GATEWAY EASTERN RAILWAY COMPANY TITLE REPORT NO. SC-6152.0 BOOK 2970 PAGES 375			PE=0.7681	PE=33,459	01-12-0-517-004	



STATE OF ILLINOIS )  
COUNTY OF SANGAMON ) SS

I, GEORGE L. WOODS, AN ILLINOIS PROFESSIONAL LAND SURVEYOR,  
STATE THAT I HAVE SURVEYED OR DIRECTED THE SURVEY OF 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 \_\_\_\_\_

GEORGE L. WOODS, PLS NO. 3015  
LICENSE EXPIRATION DATE: 11/30/2010



STATIONING REFERENCED TO  
PROPOSED 55S70W = (70WB)  
PROPOSED 70E55N = (70EB)

**Lin Engineering, Ltd.**  
CONSULTING ENGINEERS  
210 WEST CHESTNUT  
CHATHAM, IL 62629  
PROFESSIONAL DESIGN FIRM NO. 184-001181  
PHONE: (217)-483-4168 FAX: (217)-483-4706

ILLINOIS DEPARTMENT OF TRANSPORTATION  
PLAT OF HIGHWAYS  
FAP ROUTE 998  
SECTION 82-1-(RB)  
ST. CLAIR COUNTY  
JOB NO. R-98-026-08

STA. 81+70.37 TO STA. 85+73.07 (55S70W)  
SCALE: 1" = 30'  
SHEET 10 OF 35

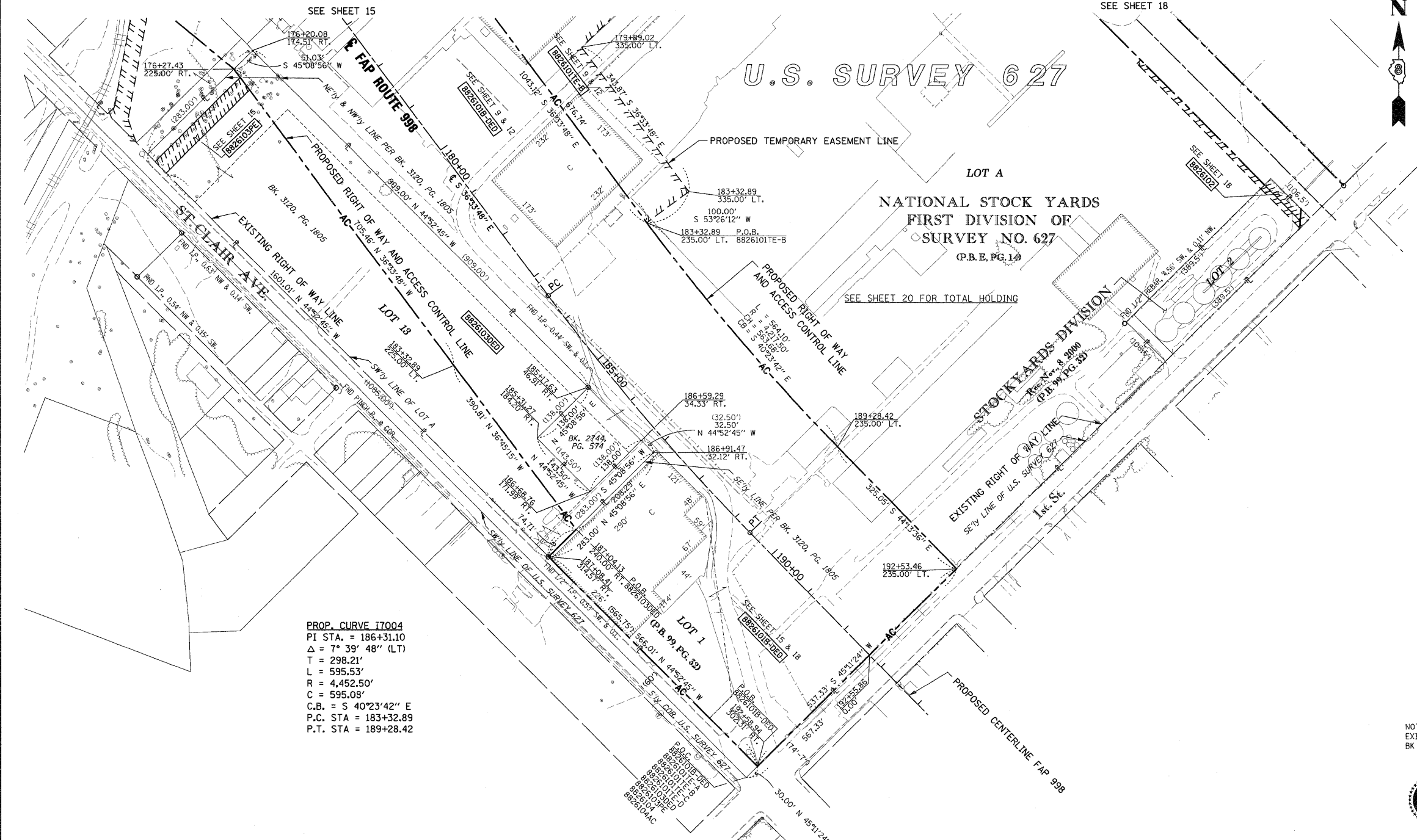
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-(RB)	ST. CLAIR	12	29A

CONTRACT NO. \_\_\_\_\_  
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT

PLAT DATE = 10/19/2009  
FILE NAME = #FILE#  
PLOT SCALE = #SCALE#  
USER NAME = #USER#

PART OF U.S. SURVEY 627, T2N, R10W, OF THE 3RD PM, ST. CLAIR COUNTY, ILLINOIS

SEE COORDINATE LIST AND BASIS OF COORDINATES AND BEARINGS STATEMENT ON SHEET 2



SPACE RESERVED FOR RECORDING OFFICER

BEARINGS SHOWN HEREON ARE BASED ON THE MISSISSIPPI RIVER CROSSING (MRC) COORDINATE SYSTEM WHICH IS A MODIFIED UNIVERSAL TRANSVERSE MERCATOR (UTM) SYSTEM, ZONE 15 NORTH.

**PROP. CURVE 17004**  
 PI STA. = 186+31.10  
 $\Delta = 7^\circ 39' 48''$  (LT)  
 T = 298.21'  
 L = 595.53'  
 R = 4,452.50'  
 C = 595.08'  
 C.B. = S 40°23'42" E  
 P.C. STA = 183+32.89  
 P.T. STA = 189+28.42

NOTE:  
 EXISTING R.O.W. OF ST. CLAIR AVE. ESTABLISHED PER BK OF DEEDS Y-5, PG. 97 & PB H, PG. 34

**AMERICAN**  
 SURVEYING & ENGINEERING, P.C.  
 841 N. Galena Ave. Dixon, IL 61021  
 815-288-0231  
 ILLINOIS PROFESSIONAL DESIGN  
 FIRM NO. 184-003192

STATE OF ILLINOIS )  
 COUNTY OF ) SS

I, COVENTINE FIDIS, 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 \_\_\_\_\_  
 COVENTINE FIDIS, PLS NO. 35-2159  
 LICENSE EXPIRATION DATE: 11/30/2010



\* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	AREA TO BE DEDICATED		REMAINDER ACRES	EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			ACRES	SQ. FT.		ACRES	SQ. FT.		
88261030ED	NATIONAL CITY LAND COMPANY, LLC A NEVADA LIMITED LIABILITY CO. TITLE REPORT NO. SC-5594	6.5944	2.7855	121,337	6.5944	PE 0.1562	PE 6,806	01-12.0-202-002	

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PLAT OF HIGHWAYS**  
 FAP ROUTE 998  
 SECTION 82-1K  
 ST. CLAIR COUNTY  
 JOB NO. R-98-026-08  
 STATION 178+00 TO STATION 193+00

SCALE: 1" = 100'







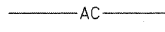
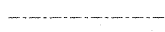
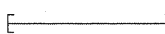
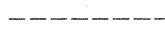



SHEET 16 OF

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



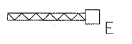
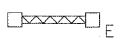








F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			12	30

COMPLETION DATE OF FIELD WORK PERFORMED \_\_\_\_\_  
 LAND SURVEY: \_\_\_\_\_ ROW STAKING: \_\_\_\_\_ CONTRACT NO. \_\_\_\_\_  
 FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT


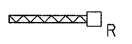
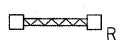


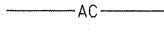


**ELECTRICAL SYMBOLS FOR PROPOSED WORK**

-  CONVENTIONAL LIGHTING UNIT:  
45'-0" MOUNTING HEIGHT  
15'-0" MAST ARM(S)  
250 WATT HPS M-C-III LUMINAIRE(S)  
GROUND MOUNTED ON A  
BREAKAWAY TRANSFORMER BASE
-  TEMPORARY LIGHTING UNIT:  
400 WATT HPS LUMINAIRE (TYPE M-C-III);  
15 FOOT MAST ARM; 60 FOOT, CLASS 4, WOOD POLE
-  TEMPORARY WOOD POLE; 50 FOOT LENGTH  
(10 FOOT BURIED, 40 FOOT INSTALLED HEIGHT)
-  RECORDER WELL
-  DEEP WELL
-  EXISTING DEEP WELL TO BE ADJUSTED
-  TEMPORARY AERIAL CABLE
-  RACEWAY OR DIRECT BURIAL CABLE  
UNDERGROUND WITHOUT ENCASEMENT
-  SCHEDULE 80 PVC CONDUIT SLEEVE  
TRENCHED OR PUSHED
-  RACEWAY ATTACHED TO STRUCTURE
-  RACEWAY EMBEDDED IN CONCRETE STRUCTURE
-  RACEWAY TURNED DOWN
-  RACEWAY TURNED UP

**ELECTRICAL SYMBOLS FOR EXISTING CONDITIONS**

-  EXISTING HIGH MAST LIGHTING UNIT TO REMAIN
-  EXISTING CONVENTIONAL LIGHTING UNIT TO REMAIN
-  EXISTING LIGHTED SIGN STRUCTURE TO REMAIN-  
CANTILEVER TYPE
-  EXISTING LIGHTED SIGN STRUCTURE TO REMAIN-  
TRUSS TYPE
-  EXISTING LIGHTING CONTROLLER TO REMAIN
-  EXISTING ELECTRIC SERVICE TO REMAIN
-  EXISTING JUNCTION BOX TO REMAIN
-  EXISTING HANDHOLE TO REMAIN
-  EXISTING RACEWAY OR DIRECT BURIED CABLE
-  EXISTING CONDUIT SLEEVE
-  EXISTING DEEP WELL TO REMAIN
-  EXISTING TEMPORARY WOOD POLE TO REMAIN

**ELECTRICAL SYMBOLS FOR REMOVAL WORK**

-  EXISTING CONVENTIONAL LIGHTING UNIT  
AND CONCRETE FOUNDATION TO BE REMOVED
-  EXISTING LIGHTED SIGN STRUCTURE TO BE REMOVED;  
CANTILEVER TYPE
-  EXISTING LIGHTED SIGN STRUCTURE TO BE REMOVED;  
TRUSS TYPE
-  EXISTING RECORDER WELL TO BE FILLED
-  EXISTING DEEP WELL TO BE FILLED
-  EXISTING AERIAL CABLE TO BE REMOVED
-  EXISTING RACEWAY OR DIRECT BURIED CABLE  
TO BE ABANDONED
-  EXISTING CONDUIT SLEEVE TO BE ABANDONED

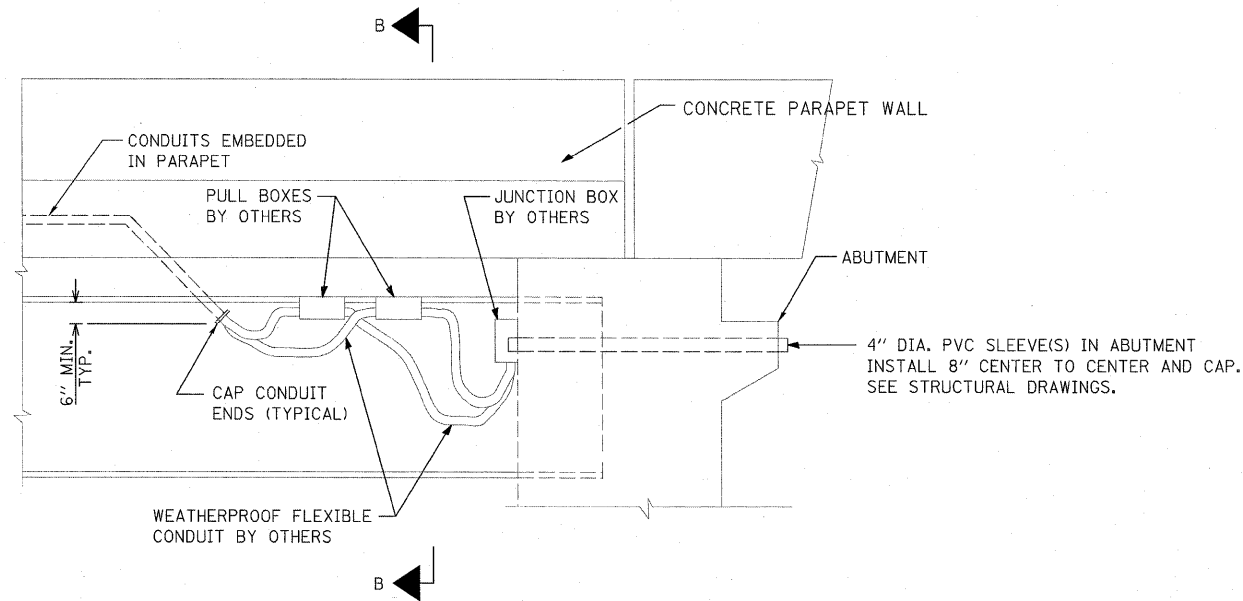
**ABBREVIATIONS**

A	AMPERES	NTS	NOT TO SCALE
AC	ALTERNATING CURRENT	PH	PHASE
A/C	AERIAL CABLE	PIN	PROJECT IDENTIFICATION NUMBER
ATS	ATTACHED TO STRUCTURE	PNL	PANEL
C	CONDUCTOR	PROP	PROPOSED
CKT	CIRCUIT	PVC	POLYVINYL CHLORIDE
CNC	COILABLE NON-METALLIC CONDUIT	PVCC	POLYVINYL CHLORIDE COATED
CONC	CONCRETE	R	EXISTING UNIT TO BE REMOVED
CL, CL	CENTERLINE	RGC	RIGID GALVANIZED STEEL CONDUIT
DIA	DIAMETER	ROW	RIGHT OF WAY
DWG	DRAWING	RL	EXISTING RELOCATED UNIT
E	EXISTING UNIT TO REMAIN	RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
EA	EACH	RT	RIGHT
EB	EASTBOUND	SB	SOUTHBOUND
ECA	ELECTRICAL CABLE ASSEMBLY	SCH 40	SCHEDULE 40
EOR	EDGE OF ROADWAY	SCH 80	SCHEDULE 80
FT	FOOT, FEET	SHT	SHEET
FDN	FOUNDATION	SS	STAINLESS STEEL
GND, GRD	GROUND	STA	STATION
HPS	HIGH PRESSURE SODIUM	STD	STANDARD
I	INTERSTATE	STRUCT	STRUCTURE
IDOT	ILLINOIS DEPARTMENT OF TRANSPORTATION	T	TEMPORARY
IN	INCHES	TEL	TELEPHONE
J, JB	JUNCTION BOX	TS	TRAFFIC SIGNAL
KVA	KILOVOLT-AMPERE	TYP	TYPICAL
KW	KILOWATT	UD	UNIT DUCT
LF	LINEAR FEET	UNO	UNLESS NOTED OTHERWISE
LT	LEFT	V	VOLT
MA	MAST ARM(S)	W	WATT, WIRE
NB	NORTHBOUND	WB	WESTBOUND
NIC	NOT IN CONTRACT	WM	WALL MOUNTED
NO	NUMBER	WP	WOOD POLE
		XFMR	TRANSFORMER

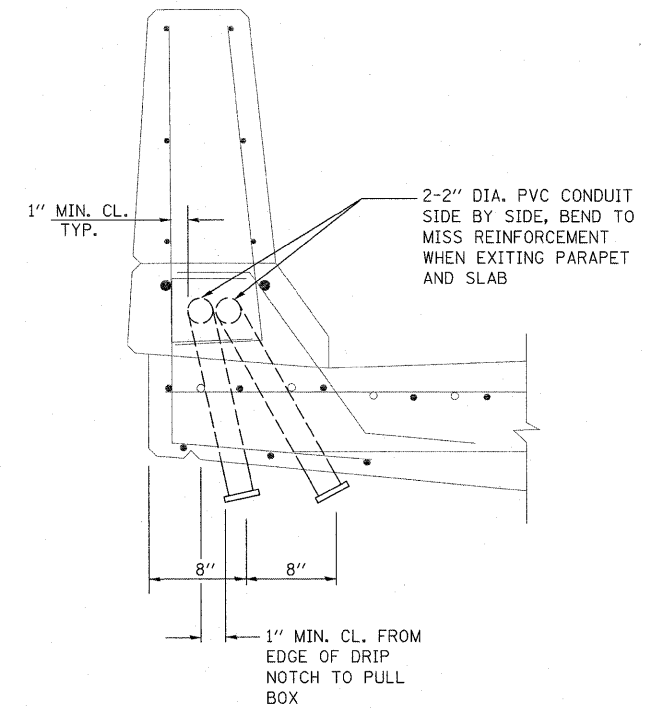
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	PLOT SCALE = 1:2000 / 1/4"	DRAWN TCL	REVISED -					998	82-1-2HB	ST. CLAIR	72	30A
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		DATE 03-18-11	REVISED -				FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				

**NOTES:**

1. SEE DRAWING ME-01 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
2. SEE DRAWING ME-03 FOR CONDUIT TERMINATION AND ROUTING PLAN AT ABUTMENTS.
3. SEE STRUCTURAL PLANS FOR INSTALLATION LOCATIONS OF ALL CONDUITS EMBEDDED IN CONCRETE STRUCTURES.



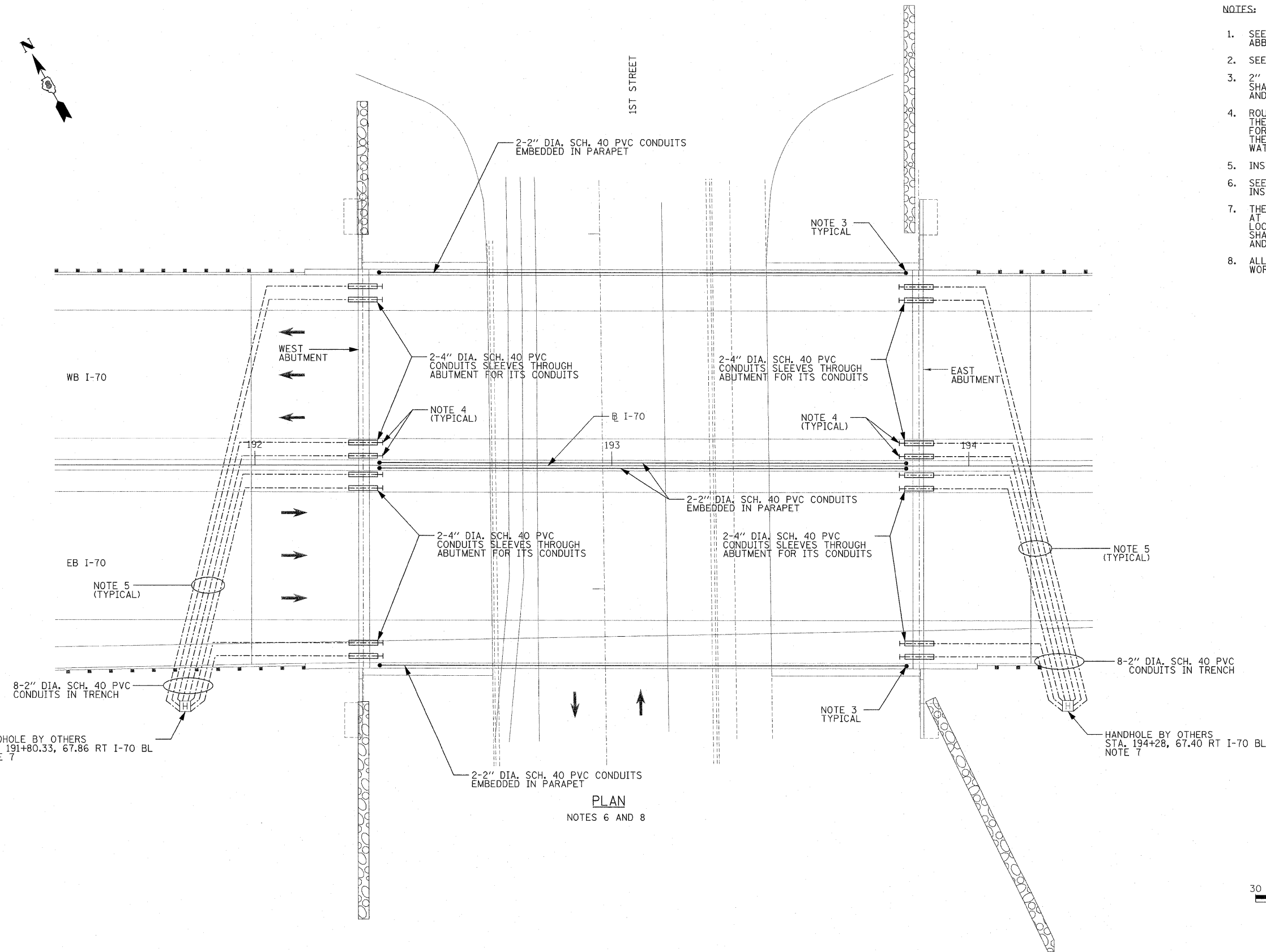
**CONDUIT TERMINATION DETAILS AT ABUTMENTS  
WITH CONDUIT SLEEVES**



**VIEW B-B**

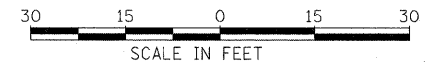
ME-02

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	PLOT SCALE = 1.0000' / 1"	CHECKED JPC	REVISED -					CONTRACT NO. 76C50				
	PLOT DATE = 3/1/2011	DATE 03-18-11	REVISED -					SCALE:	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT



- NOTES:**
1. SEE DRAWING ME-01 FOR ELECTRICAL SYMBOLS AND ABBREVIATIONS.
  2. SEE DRAWINGS ME-02 FOR CONDUIT INSTALLATION DETAILS.
  3. 2" DIA. PVC CONDUIT(S) EMBEDDED IN PARAPET FOR ITS SHALL BE STUBBED OUT THE BOTTOM OF THE DECK SLAB AND CAPPED.
  4. ROUTE CONDUITS IN TRENCH THROUGH THE SLEEVES IN THE ABUTMENT AND CAP ON THE BACK SIDE OF ABUTMENT FOR FUTURE USE. PROVIDE CONDUIT SEALANT BETWEEN THE SLEEVE AND CONDUIT TO PREVENT THE INGRESS OF WATER AND DEBRIS.
  5. INSTALL PARALLEL CONDUITS IN A COMMON TRENCH.
  6. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL CONDUIT INSTALLATION DETAILS.
  7. THE CONDUITS IN TRENCH SHALL BE TERMINATED AT THE PROPOSED HANDHOLE (PROVIDED BY OTHERS) LOCATION SHOWN ON THE PLANS. THE CONDUITS SHALL BE SPACED 4 INCHES APART CENTER TO CENTER AND CAPPED FOR FUTURE USE.
  8. ALL ELECTRICAL WORK SHALL BE COORDINATED WITH WORK IN CONTRACT 76C76.

**PLAN**  
NOTES 6 AND 8



ME-03

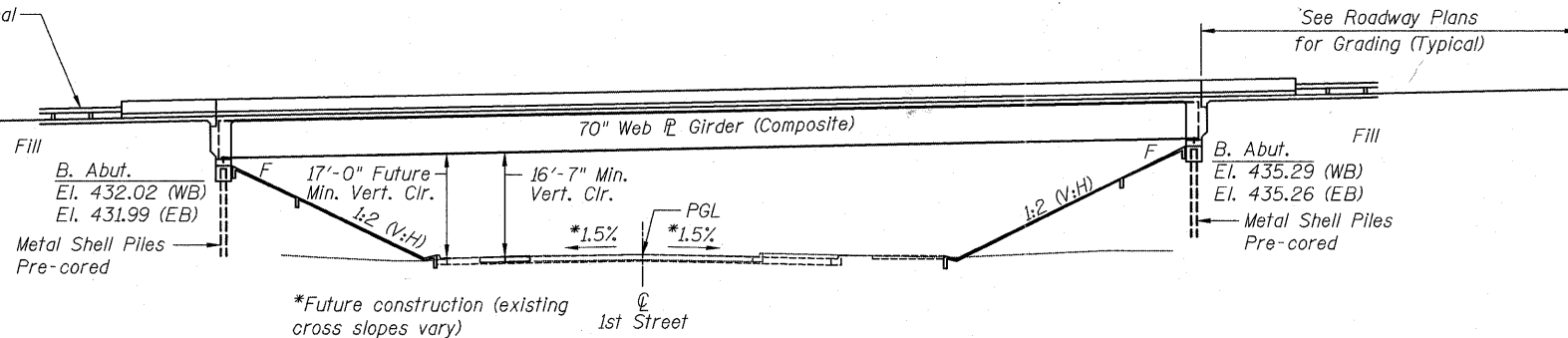
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	PLOT SCALE = 1:10000' / 1" =	DRAWN TCL	REVISED -				998	82-1-2HB	ST. CLAIR	72	30C
	PLOT DATE = 3/1/2011	CHECKED JPC	REVISED -				CONTRACT NO. 76C50				
	DATE 03-18-11	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



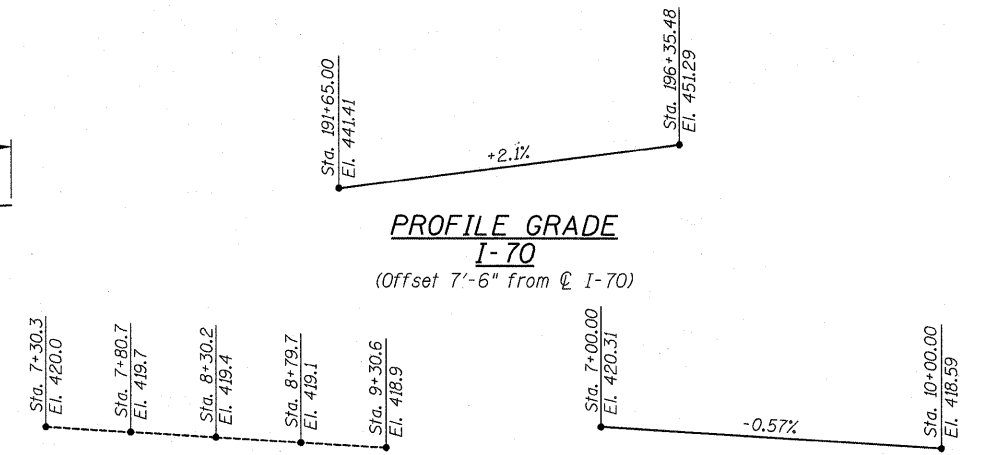
Benchmark: (0017-0): RR spike in P.P. with light NW quadrant St. Clair & 1st Street  
 Elev. 422.11 St. Clair Sta. 86+61 Offset 30.0' Lt.

No Existing Structure. Traffic will be maintained on 1st Street using stage construction.

Traffic Barrier Terminal  
 Type 6 Appr. Ends  
 Type 5 Exit Ends  
 (to be included in a  
 future contract)



**ELEVATION**



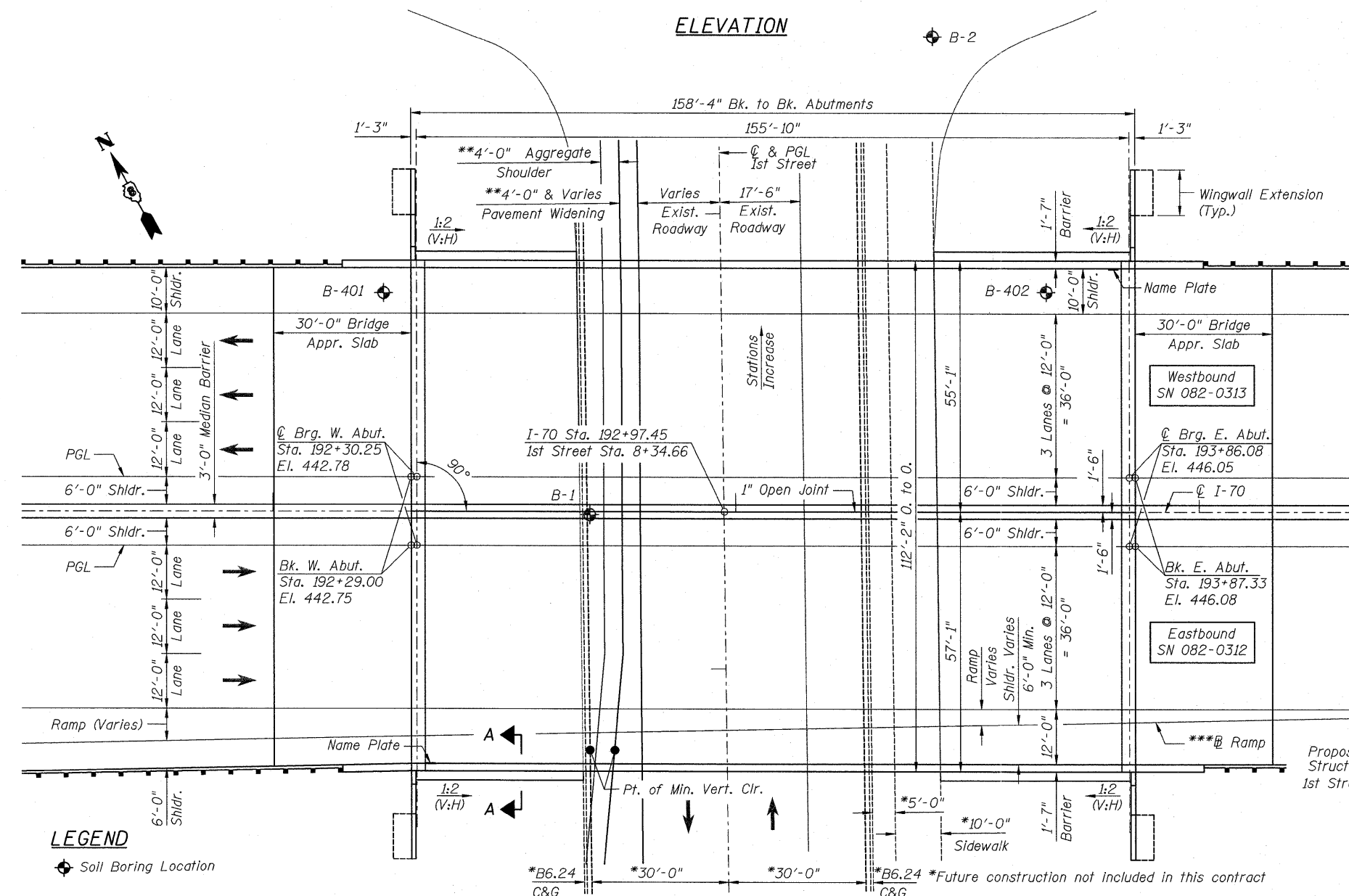
**LOADING HL-93**  
 Allow 50#/sq. ft. for future wearing surface

**DESIGN SPECIFICATIONS**  
 2007 AASHTO LRFD Bridge Design Specifications with 2008 Interims

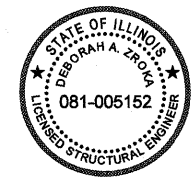
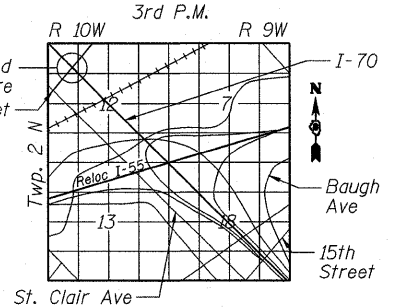
**DESIGN STRESSES**

**FIELD UNITS**  
 $f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)  
 $f_y = 50,000$  psi (M270 Grade 50)

**SEISMIC DATA**  
 Seismic Performance Zone (SPZ) = 2  
 Design Spectral Acceleration @ 1.0 sec (SD1) = .24g  
 Design Spectral Acceleration @ 2.0 sec (SDS) = .54g  
 Soil Site Class = D



**PLAN**



Signature: *Deborah A. Erwig* Mar. 18, 2011  
 Date

November 30, 2012  
 Expires

**APPROVED**  
 FOR STRUCTURAL ADEQUACY ONLY

*John C. Pappas*  
 ENGINEER OF BRIDGES AND STRUCTURES

**GENERAL PLAN & ELEVATION**  
**INTERSTATE 70 OVER 1ST STREET**  
**FAI-70**  
**SECTION 82-1-2HB**  
**ST. CLAIR COUNTY**  
**STA. 192+97.45**  
**STRUCTURE NO. 082-0312 (EB)**  
**STRUCTURE NO. 082-0313 (WB)**

**ZROKA** Engineering, P.C.  
 4216 North Hermitage  
 Chicago, IL 60613

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PLOT DATE = 3/8/2011	DATE - 3-18-11	CHECKED - LAS	REVISED -
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

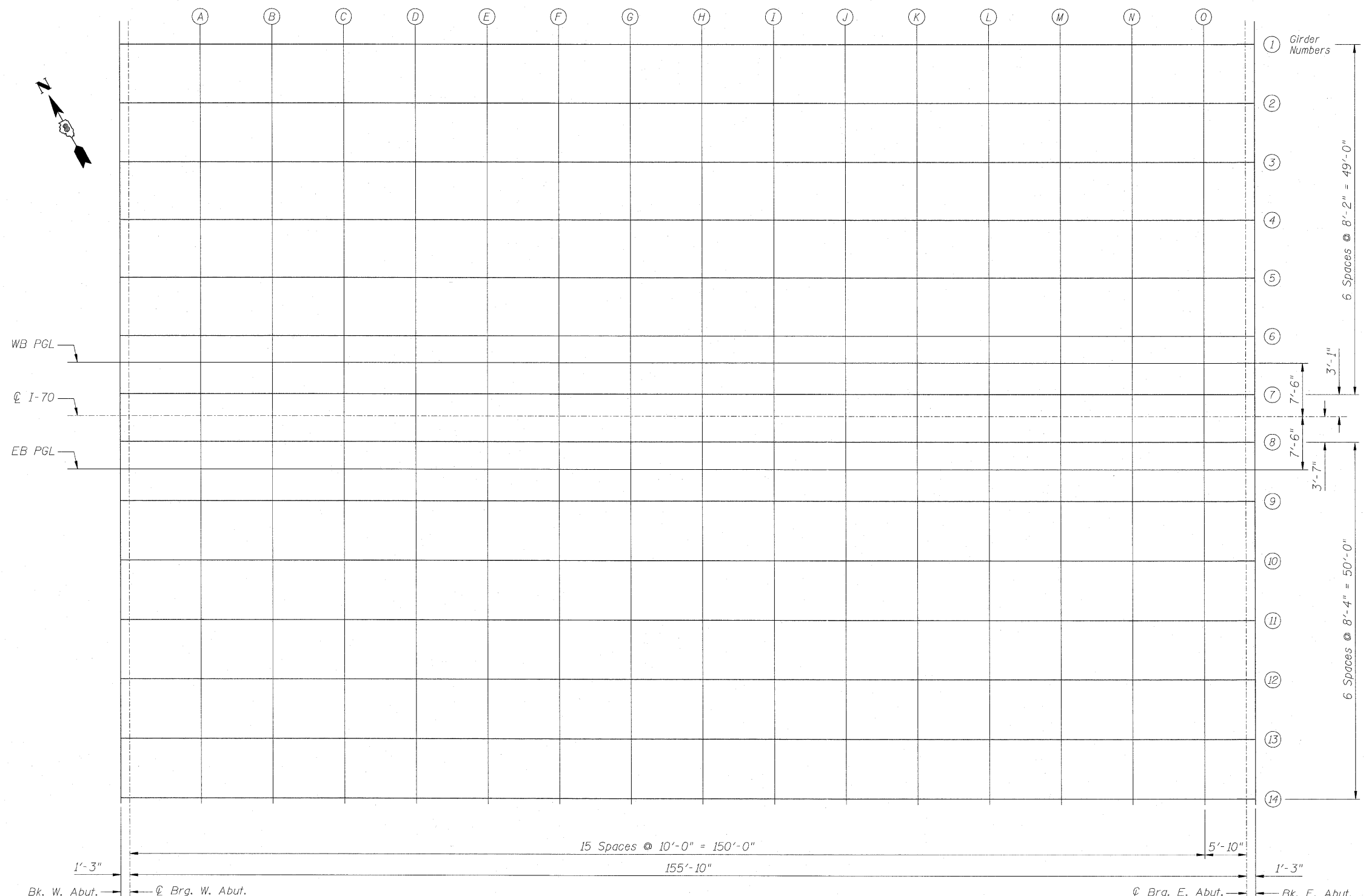
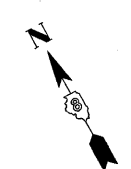
**GENERAL PLAN & ELEVATION**

SCALE: NONE SHEET NO. 1 OF 30 SHEETS STA. TO STA.

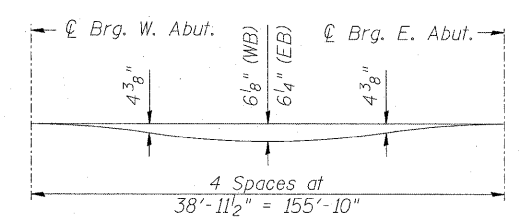
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-2HB	ST. CLAIR	72	31
SN 082-0312 & 082-0313		CONTRACT NO. 76C50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		





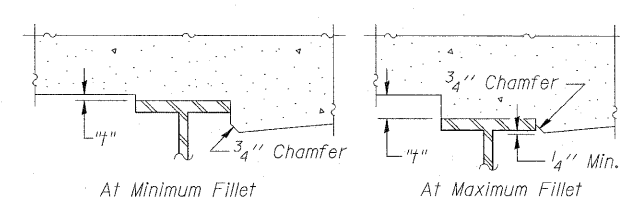


PLAN FOR TOP OF SLAB ELEVATIONS



DEAD LOAD DEFLECTION DIAGRAM  
(Includes weight of concrete only.)

Note:  
The above deflections are not to be used in the field if the Engineer is working from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection".



To determine "t": After all structural steel has been erected, elevations of the top flanges of the girders shall be taken at intervals shown on this sheet. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheets 4 and 5, minus slab thickness, equals the fillet heights "t" above top flange of girders.

FILLET HEIGHTS

TOP OF SLAB ELEVATIONS 1  
INTERSTATE 70 OVER 1ST STREET  
FAI-70  
SECTION 82-1-2HB  
ST. CLAIR COUNTY  
STA. 192+97.45  
STRUCTURE NO. 082-0312 (EB)  
STRUCTURE NO. 082-0313 (WB)

**ZROKA** engineering  
Zroka Engineering, P.C.  
4216 North Hermitage  
Chicago, IL 60613

FILE NAME =	USER NAME = SAW	DESIGNED - LAS	REVISED -
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	PLOT DATE = 2/25/2011	DATE - 3-18-11	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS 1  
SCALE: NONE SHEET NO. 3 OF 30 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-2HB	ST. CLAIR	72	33
SN 082-0312 & 082-0313		CONTRACT NO. 76C50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**GIRDER 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	192+29.00	-44.58	442.40	442.40
☉ Brg. W. Abut.	192+30.25	-44.58	442.43	442.43
A	192+40.25	-44.58	442.64	442.74
B	192+50.25	-44.58	442.85	443.05
C	192+60.25	-44.58	443.06	443.35
D	192+70.25	-44.58	443.27	443.64
E	192+80.25	-44.58	443.48	443.91
F	192+90.25	-44.58	443.69	444.16
G	193+00.25	-44.58	443.90	444.40
H	193+10.25	-44.58	444.11	444.61
I	193+20.25	-44.58	444.32	444.81
J	193+30.25	-44.58	444.53	444.98
K	193+40.25	-44.58	444.74	445.15
L	193+50.25	-44.58	444.95	445.29
M	193+60.25	-44.58	445.16	445.42
N	193+70.25	-44.58	445.37	445.53
O	193+80.25	-44.58	445.58	445.64
☉ Brg. E. Abut.	193+86.08	-44.58	445.70	445.70
Bk. E. Abut.	193+87.33	-44.58	445.73	445.73

**GIRDER 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	192+29.00	-36.42	442.57	442.57
☉ Brg. W. Abut.	192+30.25	-36.42	442.59	442.59
A	192+40.25	-36.42	442.80	442.90
B	192+50.25	-36.42	443.01	443.21
C	192+60.25	-36.42	443.22	443.51
D	192+70.25	-36.42	443.43	443.80
E	192+80.25	-36.42	443.64	444.07
F	192+90.25	-36.42	443.85	444.32
G	193+00.25	-36.42	444.06	444.56
H	193+10.25	-36.42	444.27	444.77
I	193+20.25	-36.42	444.48	444.97
J	193+30.25	-36.42	444.69	445.14
K	193+40.25	-36.42	444.90	445.31
L	193+50.25	-36.42	445.11	445.45
M	193+60.25	-36.42	445.32	445.58
N	193+70.25	-36.42	445.53	445.69
O	193+80.25	-36.42	445.74	445.80
☉ Brg. E. Abut.	193+86.08	-36.42	445.86	445.86
Bk. E. Abut.	193+87.33	-36.42	445.89	445.89

**GIRDER 3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	192+29.00	-28.25	442.69	442.69
☉ Brg. W. Abut.	192+30.25	-28.25	442.72	442.72
A	192+40.25	-28.25	442.93	443.03
B	192+50.25	-28.25	443.14	443.34
C	192+60.25	-28.25	443.35	443.64
D	192+70.25	-28.25	443.56	443.93
E	192+80.25	-28.25	443.77	444.20
F	192+90.25	-28.25	443.98	444.45
G	193+00.25	-28.25	444.19	444.69
H	193+10.25	-28.25	444.40	444.90
I	193+20.25	-28.25	444.61	445.10
J	193+30.25	-28.25	444.82	445.27
K	193+40.25	-28.25	445.03	445.44
L	193+50.25	-28.25	445.24	445.58
M	193+60.25	-28.25	445.45	445.71
N	193+70.25	-28.25	445.66	445.82
O	193+80.25	-28.25	445.87	445.93
☉ Brg. E. Abut.	193+86.08	-28.25	445.99	445.99
Bk. E. Abut.	193+87.33	-28.25	446.01	446.01

**GIRDER 4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	192+29.00	-20.08	442.81	442.81
☉ Brg. W. Abut.	192+30.25	-20.08	442.84	442.84
A	192+40.25	-20.08	443.05	443.15
B	192+50.25	-20.08	443.26	443.46
C	192+60.25	-20.08	443.47	443.76
D	192+70.25	-20.08	443.68	444.05
E	192+80.25	-20.08	443.89	444.32
F	192+90.25	-20.08	444.10	444.57
G	193+00.25	-20.08	444.31	444.81
H	193+10.25	-20.08	444.52	445.02
I	193+20.25	-20.08	444.73	445.22
J	193+30.25	-20.08	444.94	445.39
K	193+40.25	-20.08	445.15	445.56
L	193+50.25	-20.08	445.36	445.70
M	193+60.25	-20.08	445.57	445.83
N	193+70.25	-20.08	445.78	445.94
O	193+80.25	-20.08	445.99	446.05
☉ Brg. E. Abut.	193+86.08	-20.08	446.11	446.11
Bk. E. Abut.	193+87.33	-20.08	446.14	446.14

**GIRDER 5**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	192+29.00	-11.92	442.93	442.93
☉ Brg. W. Abut.	192+30.25	-11.92	442.96	442.96
A	192+40.25	-11.92	443.17	443.27
B	192+50.25	-11.92	443.38	443.58
C	192+60.25	-11.92	443.59	443.88
D	192+70.25	-11.92	443.80	444.17
E	192+80.25	-11.92	444.01	444.44
F	192+90.25	-11.92	444.22	444.69
G	193+00.25	-11.92	444.43	444.93
H	193+10.25	-11.92	444.64	445.14
I	193+20.25	-11.92	444.85	445.34
J	193+30.25	-11.92	445.06	445.51
K	193+40.25	-11.92	445.27	445.68
L	193+50.25	-11.92	445.48	445.82
M	193+60.25	-11.92	445.69	445.95
N	193+70.25	-11.92	445.90	446.06
O	193+80.25	-11.92	446.11	446.17
☉ Brg. E. Abut.	193+86.08	-11.92	446.23	446.23
Bk. E. Abut.	193+87.33	-11.92	446.26	446.26

**GIRDER 6**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	192+29.00	-3.75	442.81	442.81
☉ Brg. W. Abut.	192+30.25	-3.75	442.84	442.84
A	192+40.25	-3.75	443.05	443.15
B	192+50.25	-3.75	443.26	443.46
C	192+60.25	-3.75	443.47	443.76
D	192+70.25	-3.75	443.68	444.05
E	192+80.25	-3.75	443.89	444.32
F	192+90.25	-3.75	444.10	444.57
G	193+00.25	-3.75	444.31	444.81
H	193+10.25	-3.75	444.52	445.02
I	193+20.25	-3.75	444.73	445.22
J	193+30.25	-3.75	444.94	445.39
K	193+40.25	-3.75	445.15	445.56
L	193+50.25	-3.75	445.36	445.70
M	193+60.25	-3.75	445.57	445.83
N	193+70.25	-3.75	445.78	445.94
O	193+80.25	-3.75	445.99	446.05
☉ Brg. E. Abut.	193+86.08	-3.75	446.11	446.11
Bk. E. Abut.	193+87.33	-3.75	446.13	446.13

**WB PGL**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	192+29.00	0.00	442.75	442.75
☉ Brg. W. Abut.	192+30.25	0.00	442.78	442.78
A	192+40.25	0.00	442.99	443.09
B	192+50.25	0.00	443.20	443.40
C	192+60.25	0.00	443.41	443.70
D	192+70.25	0.00	443.62	443.99
E	192+80.25	0.00	443.83	444.26
F	192+90.25	0.00	444.04	444.51
G	193+00.25	0.00	444.25	444.75
H	193+10.25	0.00	444.46	444.96
I	193+20.25	0.00	444.67	445.16
J	193+30.25	0.00	444.88	445.33
K	193+40.25	0.00	445.09	445.50
L	193+50.25	0.00	445.30	445.64
M	193+60.25	0.00	445.51	445.77
N	193+70.25	0.00	445.72	445.88
O	193+80.25	0.00	445.93	445.99
☉ Brg. E. Abut.	193+86.08	0.00	446.05	446.05
Bk. E. Abut.	193+87.33	0.00	446.08	446.08

**GIRDER 7**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	192+29.00	4.42	442.58	442.58
☉ Brg. W. Abut.	192+30.25	4.42	442.60	442.60
A	192+40.25	4.42	442.81	442.91
B	192+50.25	4.42	443.02	443.22
C	192+60.25	4.42	443.23	443.52
D	192+70.25	4.42	443.44	443.81
E	192+80.25	4.42	443.65	444.08
F	192+90.25	4.42	443.86	444.33
G	193+00.25	4.42	444.07	444.57
H	193+10.25	4.42	444.28	444.78
I	193+20.25	4.42	444.49	444.98
J	193+30.25	4.42	444.70	445.15
K	193+40.25	4.42	444.91	445.32
L	193+50.25	4.42	445.12	445.46
M	193+60.25	4.42	445.33	445.59
N	193+70.25	4.42	445.54	445.70
O	193+80.25	4.42	445.75	445.81
☉ Brg. E. Abut.	193+86.08	4.42	445.88	445.88
Bk. E. Abut.	193+87.33	4.42	445.90	445.90

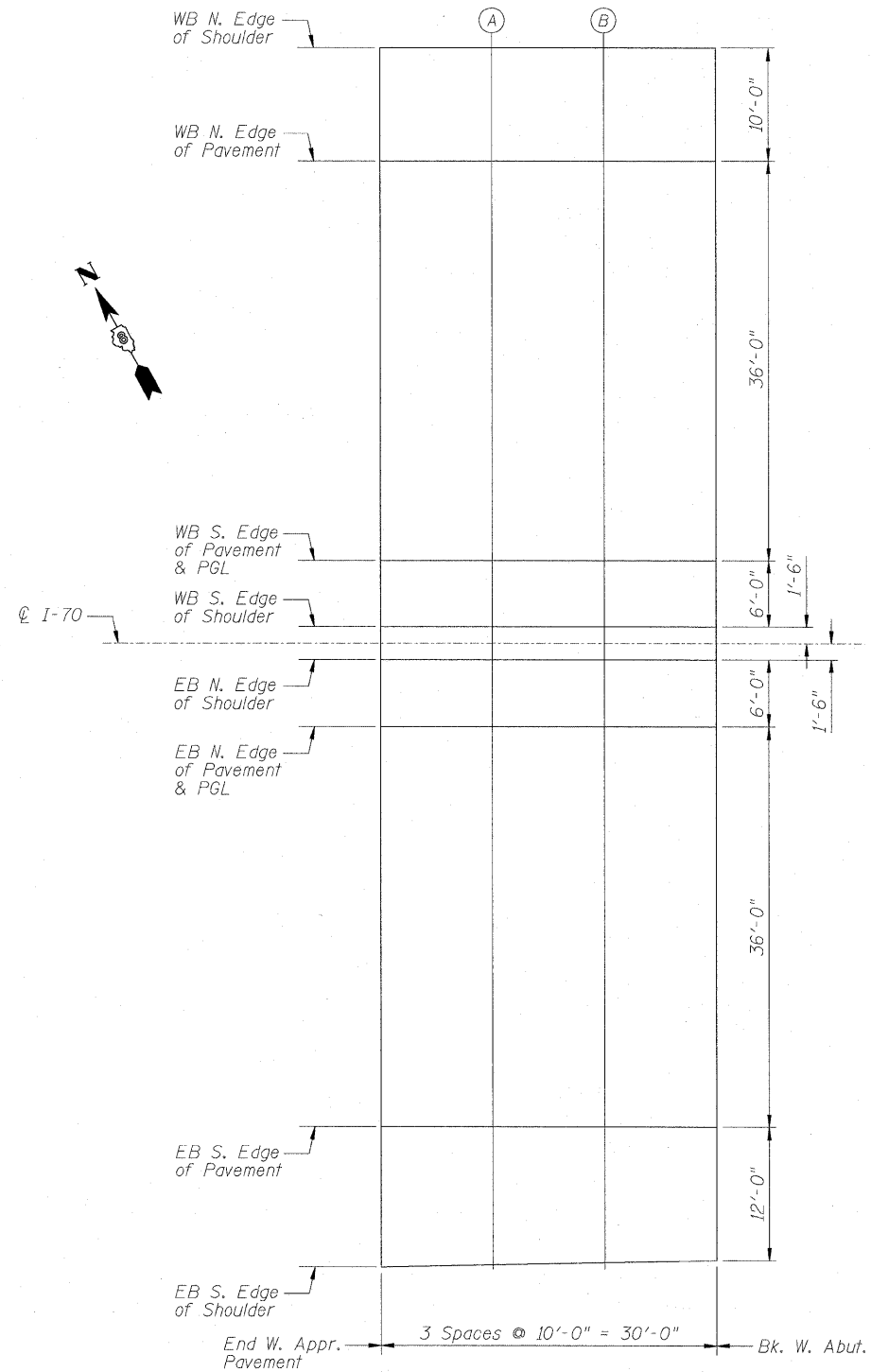
**TOP OF SLAB ELEVATIONS 2**  
**INTERSTATE 70 OVER 1ST STREET**  
**FAI-70**  
**SECTION 82-1-2HB**  
**ST. CLAIR COUNTY**  
**STA. 192+97.45**  
**STRUCTURE NO. 082-0312 (EB)**  
**STRUCTURE NO. 082-0313 (WB)**



FILE NAME =	USER NAME = SAW	DESIGNED - LAS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TOP OF SLAB ELEVATIONS 2</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...:\DBTR1-0820312-0820313-76C50-004-TSE2.dgn		DRAWN - SAW	REVISED -			998	82-1-2HB	ST. CLAIR	72	34
PLOT SCALE = 1.0000' / IN.		CHECKED - LAS	REVISED -			SN 082-0312 & 082-0313		CONTRACT NO. 76C50		
PLOT DATE = 2/25/2011		DATE - 3-18-11	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SCALE: NONE    SHEET NO. 4 OF 30 SHEETS    STA.    TO STA.





PLAN FOR TOP OF SLAB ELEVATIONS

WESTBOUND N. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmt.	191+99.00	-46.00	441.74
A	192+09.00	-46.00	441.95
B	192+19.00	-46.00	442.16
Bk. W. Abut.	192+29.00	-46.00	442.37

WESTBOUND N. EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmt.	191+99.00	-36.00	441.94
A	192+09.00	-36.00	442.15
B	192+19.00	-36.00	442.36
Bk. W. Abut.	192+29.00	-36.00	442.57

WESTBOUND S. EDGE OF PAVEMENT & PGL

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmt.	191+99.00	0.00	442.12
A	192+09.00	0.00	442.33
B	192+19.00	0.00	442.54
Bk. W. Abut.	192+29.00	0.00	442.75

WESTBOUND S. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmt.	191+99.00	6.00	441.88
A	192+09.00	6.00	442.09
B	192+19.00	6.00	442.30
Bk. W. Abut.	192+29.00	6.00	442.51

EASTBOUND N. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmt.	191+99.00	-6.00	441.88
A	192+09.00	-6.00	442.09
B	192+19.00	-6.00	442.30
Bk. W. Abut.	192+29.00	-6.00	442.51

EASTBOUND N. EDGE OF PAVEMENT & PGL

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmt.	191+99.00	0.00	442.12
A	192+09.00	0.00	442.33
B	192+19.00	0.00	442.54
Bk. W. Abut.	192+29.00	0.00	442.75

EASTBOUND S. EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmt.	191+99.00	36.00	441.94
A	192+09.00	36.00	442.15
B	192+19.00	36.00	442.36
Bk. W. Abut.	192+29.00	36.00	442.57

EASTBOUND S. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Pvmt.	191+99.00	48.63	441.70
A	192+09.00	48.42	441.91
B	192+19.00	48.21	442.12
Bk. W. Abut.	192+29.00	48.00	442.33

WEST APPROACH TOP OF SLAB ELEVATIONS  
 INTERSTATE 70 OVER 1ST STREET  
 FAI-70  
 SECTION 82-1-2HB  
 ST. CLAIR COUNTY  
 STA. 192+97.45  
 STRUCTURE NO. 082-0312 (EB)  
 STRUCTURE NO. 082-0313 (WB)

**ZROKA** engineering  
 Zroka Engineering, P.C.  
 4216 North Hermitage  
 Chicago, IL 60613

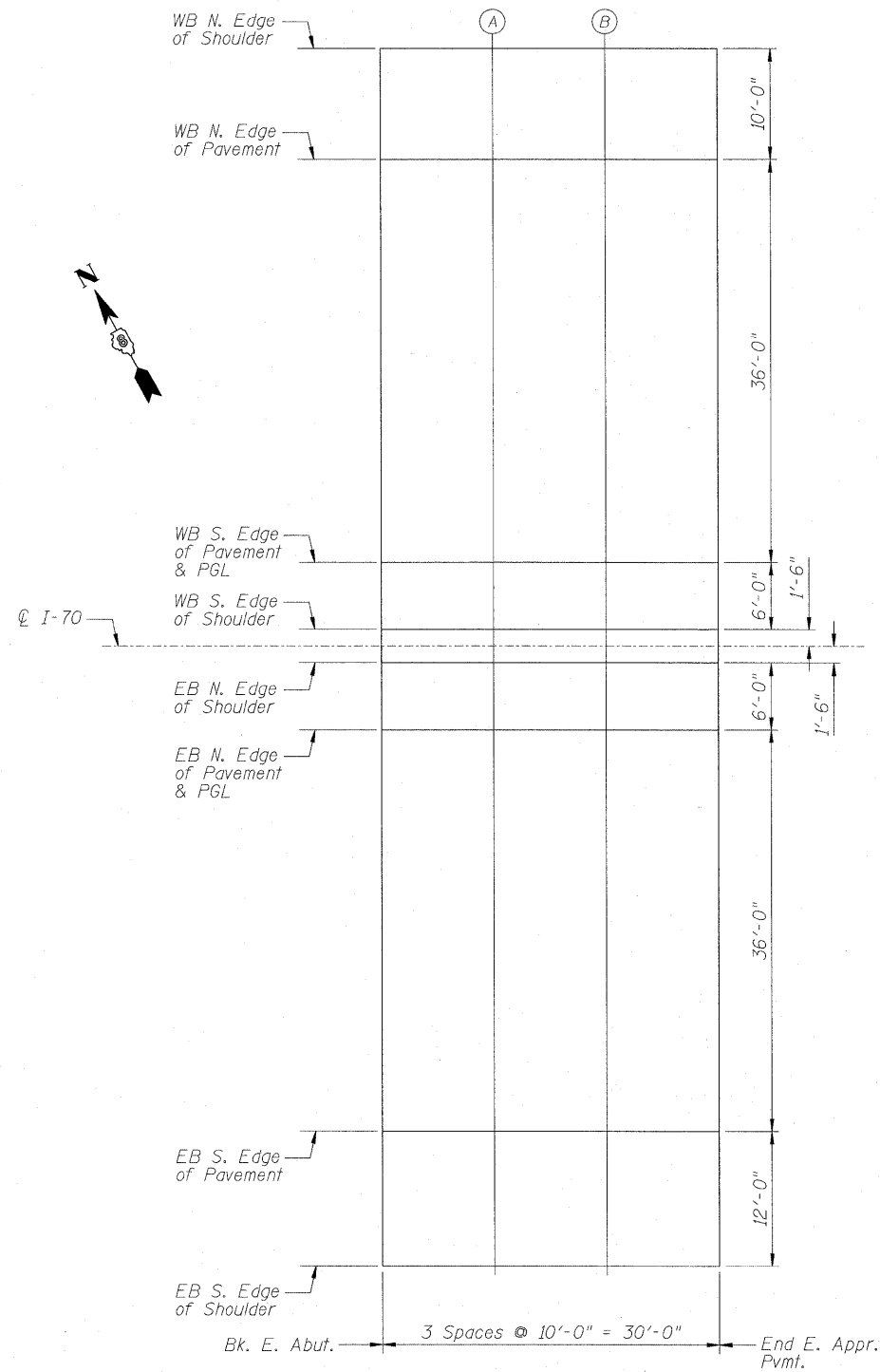
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	PLOT DATE = 2/25/2011	DATE - 3-18-11	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

WEST APPROACH TOP OF SLAB ELEVATIONS

SCALE: NONE SHEET NO. 6 OF 30 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-2HB	ST. CLAIR	72	36
SN 082-0312 & 082-0313		CONTRACT NO. 76C50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLAN FOR TOP OF SLAB ELEVATIONS

WESTBOUND N. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	193+87.33	-46.00	445.70
A	193+97.33	-46.00	445.91
B	194+07.33	-46.00	446.12
End E. Appr. Pvmf.	194+17.33	-46.00	446.33

WESTBOUND N. EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	193+87.33	-36.00	445.90
A	193+97.33	-36.00	446.11
B	194+07.33	-36.00	446.32
End E. Appr. Pvmf.	194+17.33	-36.00	446.53

WESTBOUND S. EDGE OF PAVEMENT & PGL

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	193+87.33	0.00	446.08
A	193+97.33	0.00	446.29
B	194+07.33	0.00	446.50
End E. Appr. Pvmf.	194+17.33	0.00	446.71

WESTBOUND S. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	193+87.33	6.00	445.84
A	193+97.33	6.00	446.05
B	194+07.33	6.00	446.26
End E. Appr. Pvmf.	194+17.33	6.00	446.47

EASTBOUND N. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	193+87.33	-6.00	445.84
A	193+97.33	-6.00	446.05
B	194+07.33	-6.00	446.26
End E. Appr. Pvmf.	194+17.33	-6.00	446.47

EASTBOUND N. EDGE OF PAVEMENT & PGL

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	193+87.33	0.00	446.08
A	193+97.33	0.00	446.29
B	194+07.33	0.00	446.50
End E. Appr. Pvmf.	194+17.33	0.00	446.71

EASTBOUND S. EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	193+87.33	36.00	445.90
A	193+97.33	36.00	446.11
B	194+07.33	36.00	446.32
End E. Appr. Pvmf.	194+17.33	36.00	446.53

EASTBOUND S. EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	193+87.33	48.00	445.66
A	193+97.33	48.00	445.87
B	194+07.33	48.00	446.08
End E. Appr. Pvmf.	194+17.33	48.00	446.29

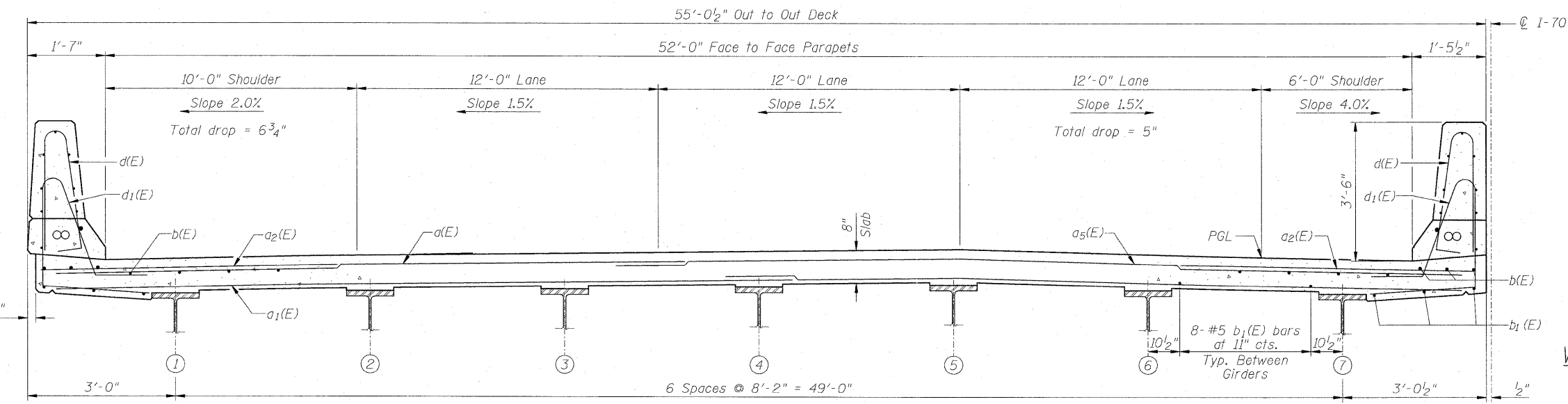
EAST APPROACH TOP OF SLAB ELEVATIONS  
 INTERSTATE 70 OVER 1ST STREET  
 FAI-70  
 SECTION 82-1-2HB  
 ST. CLAIR COUNTY  
 STA. 192+97.45  
 STRUCTURE NO. 082-0312 (EB)  
 STRUCTURE NO. 082-0313 (WB)

**ZROKA** engineering  
 Zroka Engineering, P.C.  
 4216 North Hermitage  
 Chicago, IL 60613

FILE NAME = ... \DBTRI-0820312-0820313-76C50-007-EastTSE.dgn	USER NAME = SAW	DESIGNED - LAS	REVISIONS -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EAST APPROACH TOP OF SLAB ELEVATIONS</b>	F.A.P. RTE. 998	SECTION 82-1-2HB	COUNTY ST. CLAIR	TOTAL SHEETS 72	SHEET NO. 37
PLOT SCALE = 1:8000' / IN.	DRAWN - SAW	CHECKED - LAS	REVISIONS -			SN 082-0312 & 082-0313	CONTRACT NO. 76C50			
PLOT DATE = 2/25/2011	DATE - 3-18-11	REVISIONS -	SCALE: NONE			SHEET NO. 7 OF 30 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



PLAN



MIN. BAR LAP  
#5 Bar = 2'-2"

CROSS SECTION  
(Looking East)

WESTBOUND  
SUPERSTRUCTURE  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	346	#5	24'-5"	—
a1(E)	424	#5	27'-5"	—
a2(E)	692	#6	6'-0"	—
a5(E)	346	#5	32'-5"	—
b(E)	406	#5	24'-5"	—
b1(E)	324	#5	28'-2"	—
d(E)	346	#5	6'-10"	⌋
d1(E)	346	#5	7'-10"	⌋
e(E)	112	#4	19'-5"	—
e1(E)	12	#8	29'-2"	—
e2(E)	12	#4	27'-5"	—
m(E)	8	#6	29'-9"	—
m1(E)	12	#6	29'-9"	—
m2(E)	28	#6	10'-5"	—
m3(E)	12	#6	8'-0"	—
m4(E)	4	#6	2'-9"	—
s(E)	108	#5	6'-11"	⌋
s1(E)	96	#4	16'-2"	⌋
v(E)	112	#5	3'-4"	⌋
Reinforcement Bars, Epoxy Coated		Pound	70,330	
Concrete Superstructure		Cu. Yds.	340.3	
Bridge Deck Grooving		Sq. Yd.	915	
Protective Coat		Sq. Yd.	1,067	

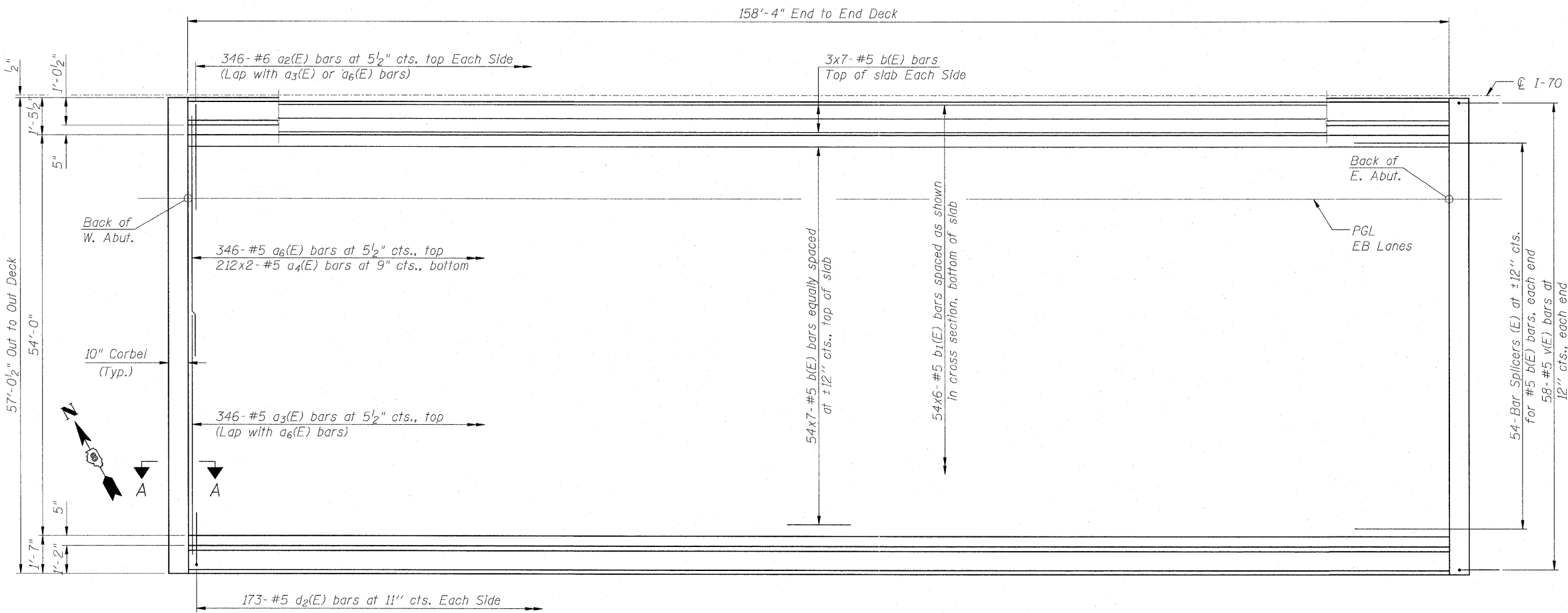
Notes:  
See Sheet 10 of 30 for superstructure details.  
Bars indicated thus 54x6-#5 etc. indicates 54 lines of bars with 6 lengths per line.  
See Sheet 10 of 30 for parapet reinforcement.  
See Sheet 11 of 30 for Section A-A.

WESTBOUND SUPERSTRUCTURE PLAN  
INTERSTATE 70 OVER 1ST STREET  
FAI-70  
SECTION 82-1-2HB  
ST. CLAIR COUNTY  
STA. 192+97.45  
STRUCTURE NO. 082-0312 (EB)  
STRUCTURE NO. 082-0313 (WB)

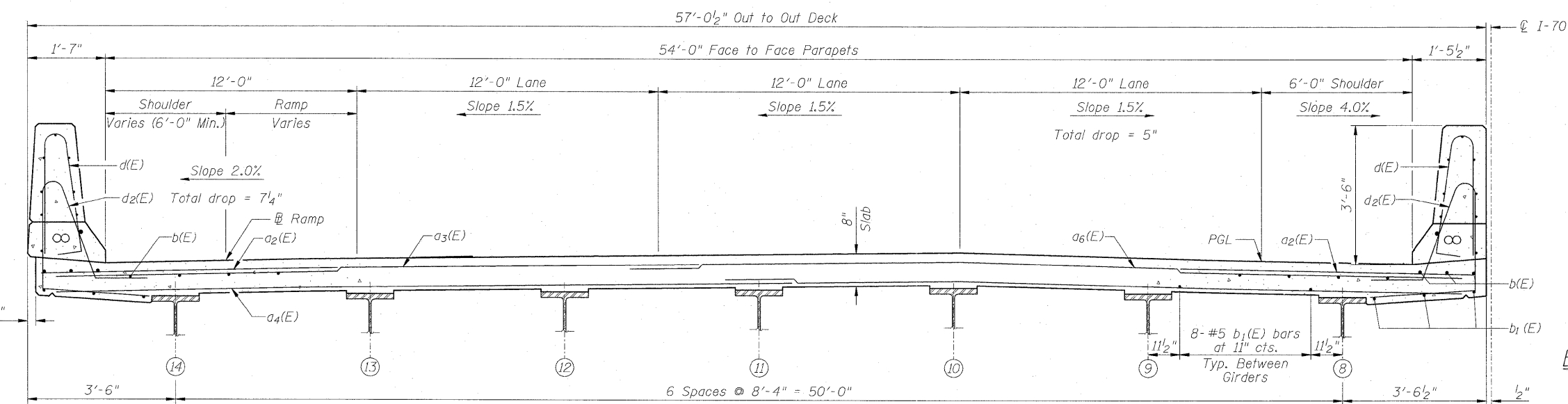
**ZROKA** Engineering, P.C.  
4216 North Hermitage  
Chicago, IL 60613

FILE NAME = ...08TRI-0820312-0820313-76C50-008-WBSuperstructurePlan.dgn	USER NAME = SAW	DESIGNED - LAS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>WESTBOUND SUPERSTRUCTURE PLAN</b>	F.A.P. RTE. 998	SECTION 82-1-2HB	COUNTY ST. CLAIR	TOTAL SHEETS 72	SHEET NO. 38
PLOT SCALE = 1:8000 1/4" IN.	DRAWN - SAW	CHECKED - LAS	REVISED -			SN 082-0312 & 082-0313	CONTRACT NO. 76C50			
PLOT DATE = 2/25/2011	DATE - 3-18-11	REVISED -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
SCALE: NONE		SHEET NO. 8 OF 30 SHEETS				STA. TO STA.				





PLAN



MIN. BAR LAP  
#5 Bar = 2'-2"

CROSS SECTION  
(Looking West)

EASTBOUND  
SUPERSTRUCTURE  
BILL OF MATERIAL

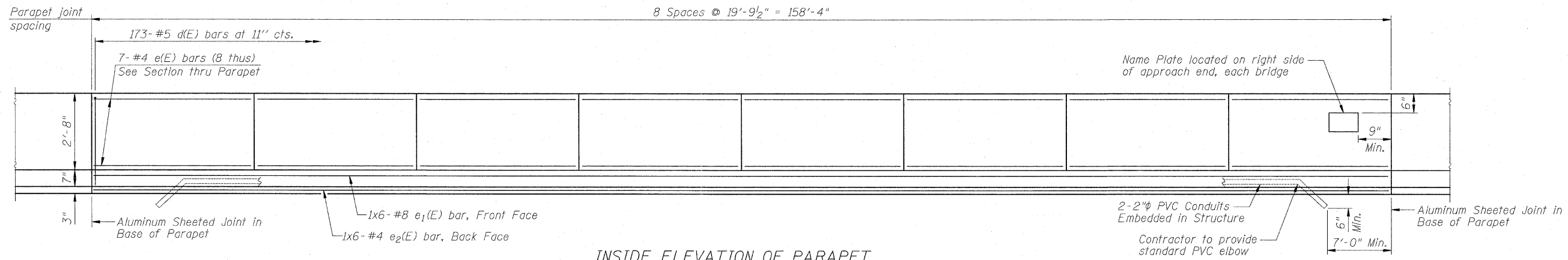
Bar	No.	Size	Length	Shape	
a <sub>2</sub> (E)	692	#6	6'-0"	—	
a <sub>3</sub> (E)	346	#5	25'-5"	—	
a <sub>4</sub> (E)	424	#5	28'-5"	—	
a <sub>6</sub> (E)	346	#5	33'-5"	—	
b <sub>1</sub> (E)	420	#5	24'-5"	—	
b <sub>1</sub> (E)	324	#5	28'-2"	—	
d(E)	346	#5	6'-10"	⌋	
d <sub>2</sub> (E)	346	#5	8'-4"	⌋	
e(E)	112	#4	19'-5"	—	
o <sub>1</sub> (E)	12	#8	29'-2"	—	
e <sub>2</sub> (E)	12	#4	27'-5"	—	
m(E)	8	#6	29'-9"	—	
m <sub>1</sub> (E)	12	#6	29'-9"	—	
m <sub>2</sub> (E)	28	#6	10'-5"	—	
m <sub>3</sub> (E)	12	#6	8'-0"	—	
m <sub>5</sub> (E)	4	#6	3'-3"	—	
s(E)	108	#5	6'-11"	⌋	
s <sub>1</sub> (E)	96	#4	16'-2"	⌋	
v(E)	116	#5	3'-4"	⌋	
Reinforcement Bars, Epoxy Coated				Pound	72,050
Concrete Superstructure				Cu. Yds.	349.5
Bridge Deck Grooving				Sq. Yd.	950
Protective Coat				Sq. Yd.	1,102

Notes:  
See Sheet 10 of 30 for superstructure details.  
Bars indicated thus 54x6-#5 etc. indicates 54 lines of bars with 6 lengths per line.  
See Sheet 10 of 30 for parapet reinforcement.  
See Sheet 11 of 30 for Section A-A.

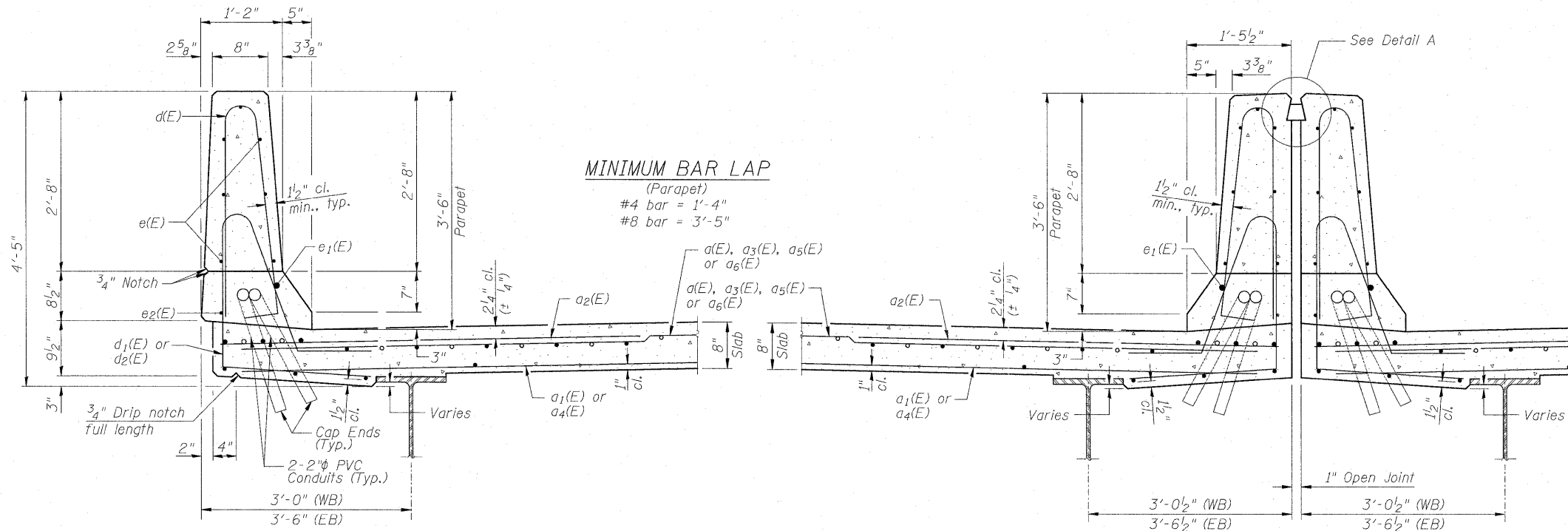
EASTBOUND SUPERSTRUCTURE PLAN  
INTERSTATE 70 OVER 1ST STREET  
FAI-70  
SECTION 82-1-2HB  
ST. CLAIR COUNTY  
STA. 192+97.45  
STRUCTURE NO. 082-0312 (EB)  
STRUCTURE NO. 082-0313 (WB)

**ZROKA** engineering  
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4216 North Hermitage  
Chicago, IL 60613

FILE NAME = ... \08TRI-0820312-0820313-76C58-009-EBSuperstructurePlan.dgn	USER NAME = SAW	DESIGNED - LAS	REvised -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EASTBOUND SUPERSTRUCTURE PLAN</b>	F.A.P. RTE. 998	SECTION 82-1-2HB	COUNTY ST. CLAIR	TOTAL SHEETS 72	SHEET NO. 39		
PLOT SCALE = 1.0000' / IN.	CHECKED - LAS	REvised - IN.	SCALE: NONE			SHEET NO. 9 OF 30 SHEETS	STA. TO STA.	SN 082-0312 & 082-0313	CONTRACT NO. 76C50	ILLINOIS FED. AID PROJECT		
PLOT DATE = 2/25/2011	DATE - 3-18-11	REvised -										

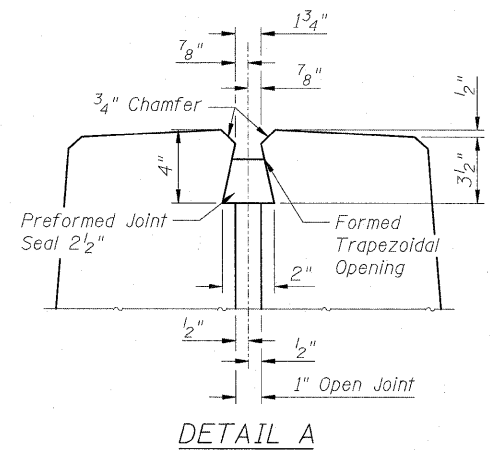


INSIDE ELEVATION OF PARAPET

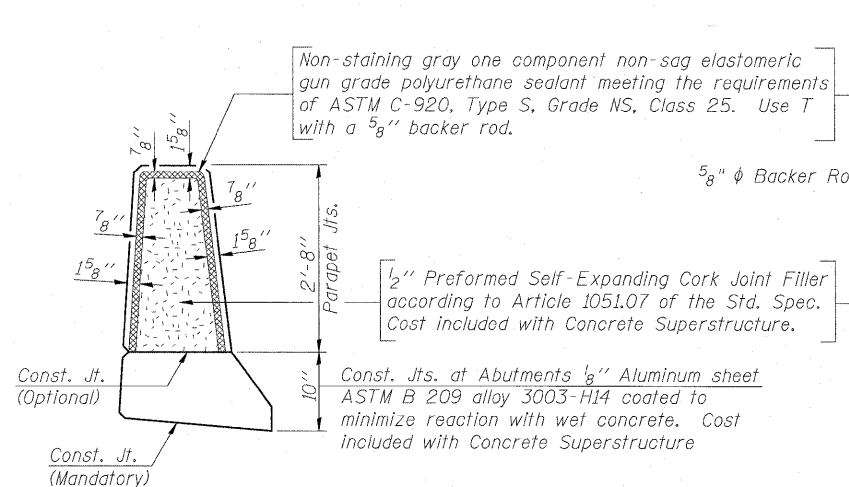


SECTION THRU EXTERIOR PARAPET

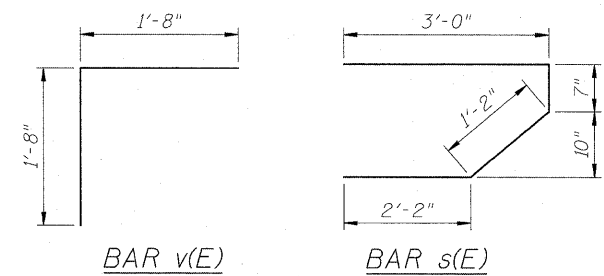
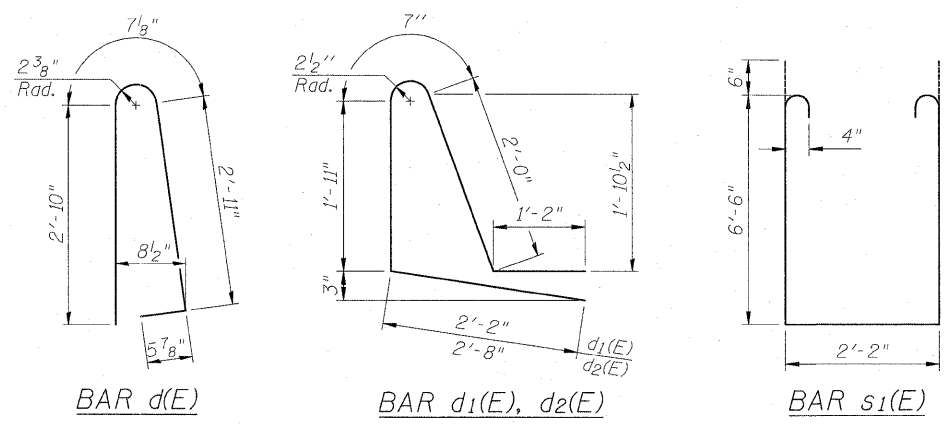
SECTION THRU MEDIAN PARAPET



DETAIL A



PARAPET JOINT DETAILS



SUPERSTRUCTURE DETAILS  
 INTERSTATE 70 OVER 1ST STREET  
 FAI-70  
 SECTION 82-1-2HB  
 ST. CLAIR COUNTY  
 STA. 192+97.45  
 STRUCTURE NO. 082-0312 (EB)  
 STRUCTURE NO. 082-0313 (WB)

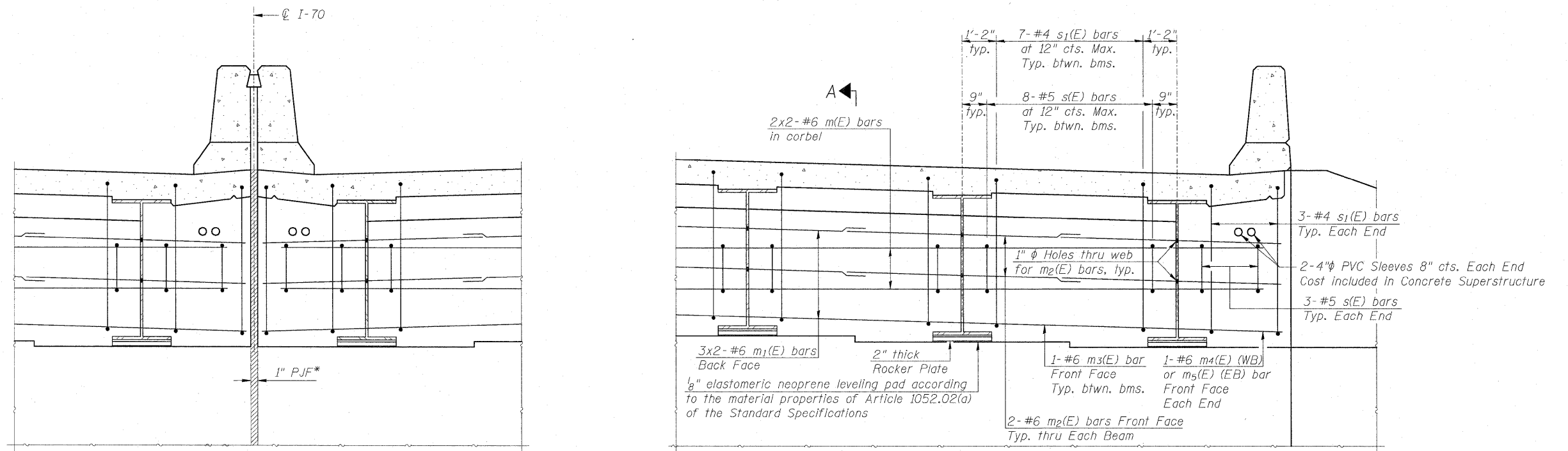
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 Chicago, IL 60613

FILE NAME = ... \DBTR1-0820312-0820313-76C50-010-SuperstructureDetails.dgn	USER NAME = SAW	DESIGNED - LAS	REVISED -
PLOT SCALE = 1:8000 / IN.	DRAWN - SAW	CHECKED - LAS	REVISED -
PLOT DATE = 2/25/2011	DATE - 3-18-11	REVISED -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS  
 SCALE: NONE SHEET NO. 10 OF 30 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-2HB	ST. CLAIR	72	40
SN 082-0312 & 082-0313		CONTRACT NO. 76C50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



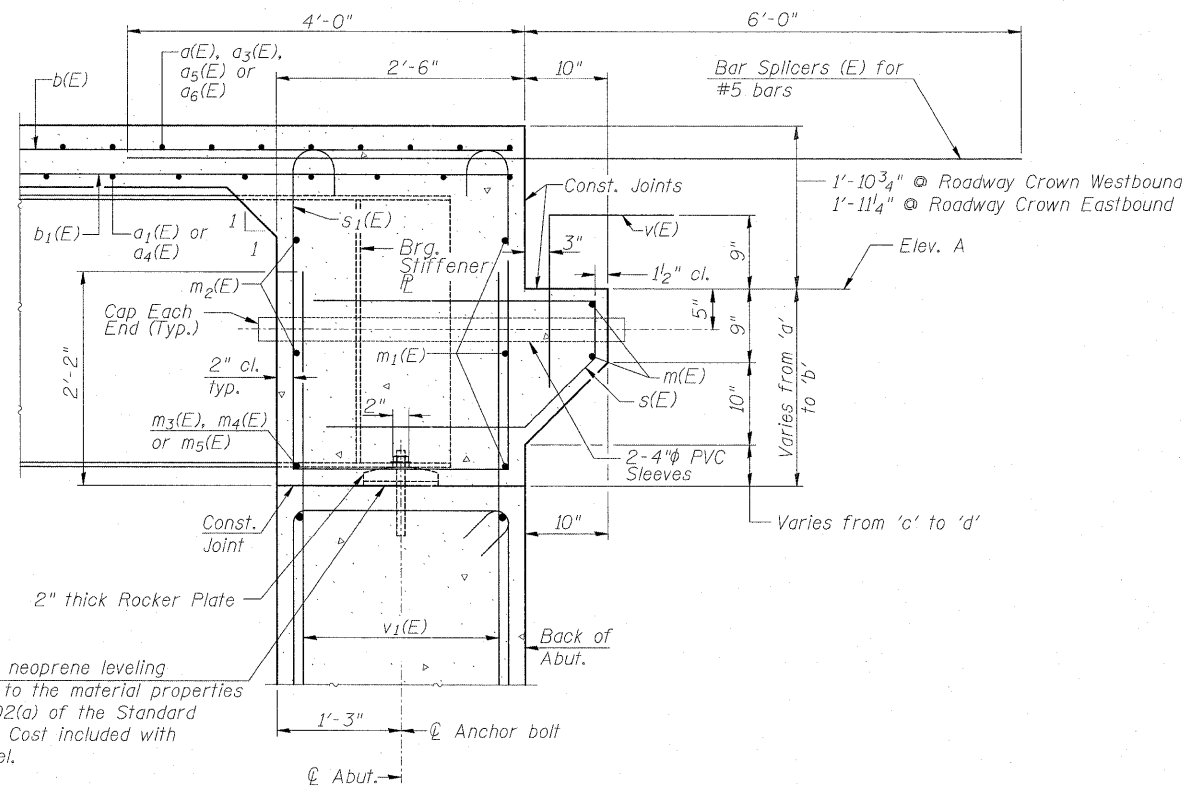
\*P.J.F. included in the cost of Concrete Structures

DIAPHRAGM ELEVATION AT ABUTMENT

Notes:

Reinforcement bars in diaphragm are billed with superstructure on Sheets 8 and 9 of 30.  
 Concrete in diaphragm is included with Concrete Superstructure on Sheets 8 and 9 of 30.  
 For details of bars s(E), s1(E) and v(E) see Sheet 10 of 30.  
 The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

MIN. BAR LAP  
 #6 bar = 2'-7"



SECTION A-A

TABLE OF WESTBOUND DIMENSIONS

	Elev. A	a	b	c	d
W. Abut.	441.03	4'-11 3/4"	5'-6 1/8"	3'-4 3/4"	3'-11 1/8"
E. Abut.	444.36	5'-0 1/2"	5'-6 7/8"	3'-5 1/2"	3'-11 7/8"

TABLE OF EASTBOUND DIMENSIONS

	Elev. A	a	b	c	d
W. Abut.	441.00	4'-11 1/2"	5'-6 1/8"	3'-4 1/2"	3'-11 1/8"
E. Abut.	444.32	5'-0 1/8"	5'-6 3/4"	3'-5 1/8"	3'-11 3/4"

ABUTMENT DIAPHRAGM DETAILS  
 INTERSTATE 70 OVER 1ST STREET  
 FAI-70  
 SECTION 82-1-2HB  
 ST. CLAIR COUNTY  
 STA. 192+97.45  
 STRUCTURE NO. 082-0312 (EB)  
 STRUCTURE NO. 082-0313 (WB)

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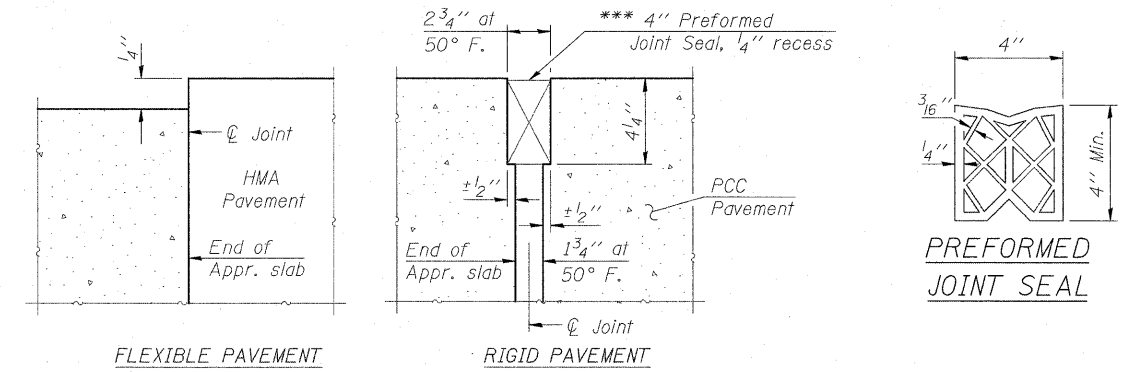
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PLOT SCALE = 1/8" = 1'-0"	CHECKED - LAS	REVISIONS -	SN 082-0312 & 082-0313			CONTRACT NO. 76C50				
PLOT DATE = 2/25/2011	DATE - 3-18-11	REVISIONS -	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				
SCALE: NONE	SHEET NO. 11 OF 30 SHEETS	STA. TO STA.								

Notes:

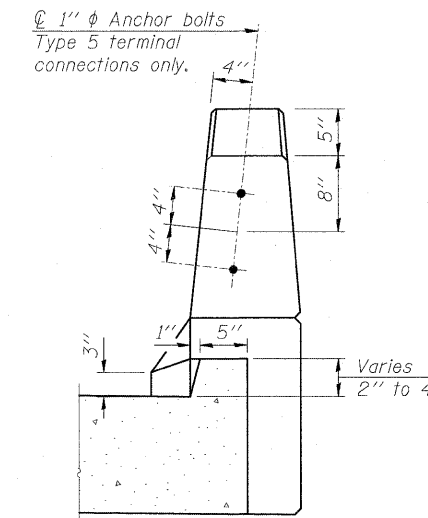
See Sheet 13 of 30 for Sections B-B, C-C, & D-D and Views E-E & G-G.

Bars indicated thus: 46x2-#5 etc. indicates 46 lines of bars with 2 lengths per line.

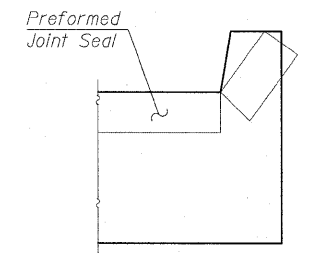
\*\*\* Cost Included with Concrete Superstructure.



DETAIL A

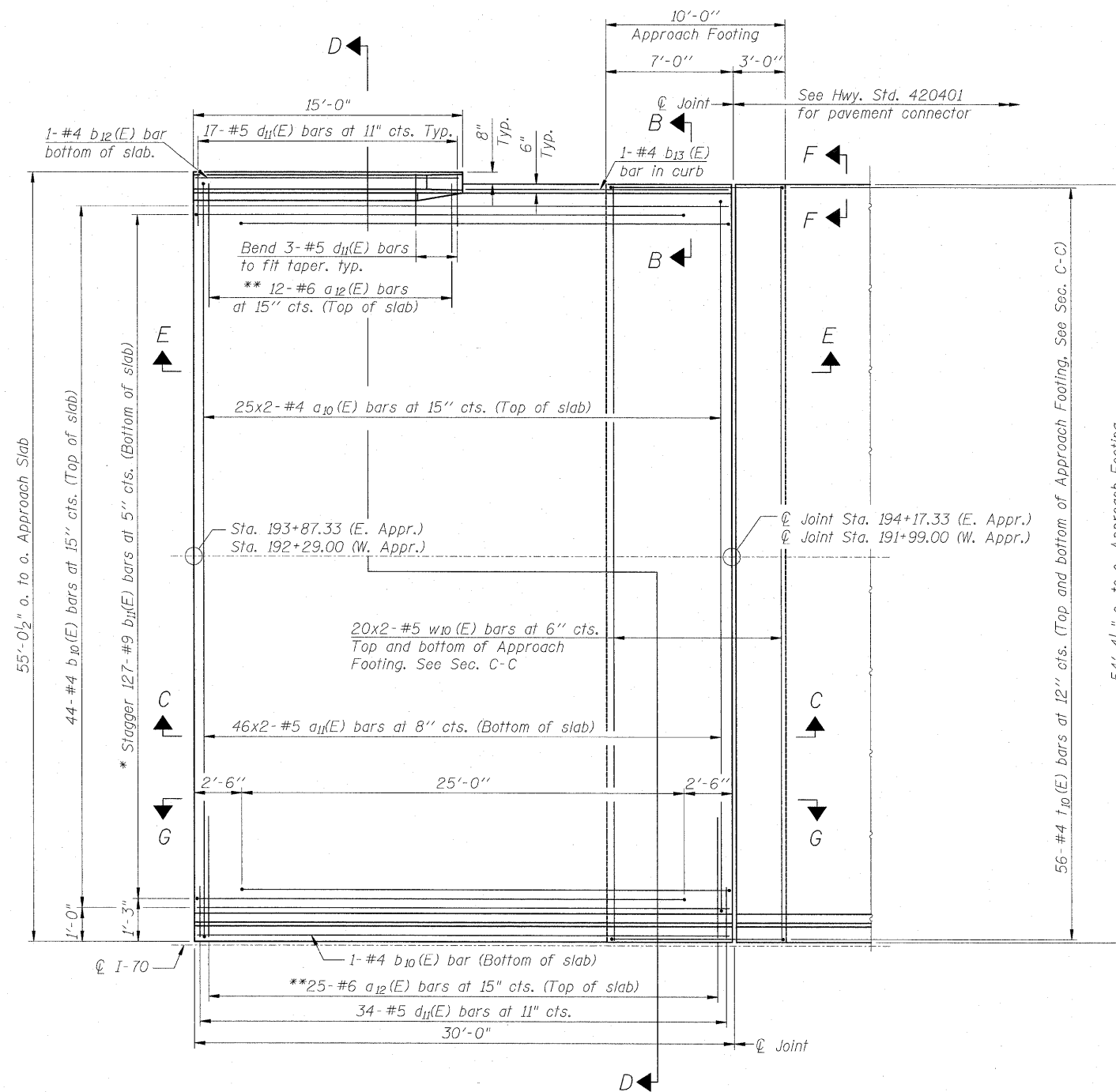


VIEW B-B  
(Exit ends only)



VIEW F-F

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.



EAST APPROACH SLAB PLAN  
(West Approach Slab Similar)

\* Tilt #9 b11(E) bars as required to maintain clearance.  
\*\* Alternate with a10(E) bars, typ. ea. parapet.

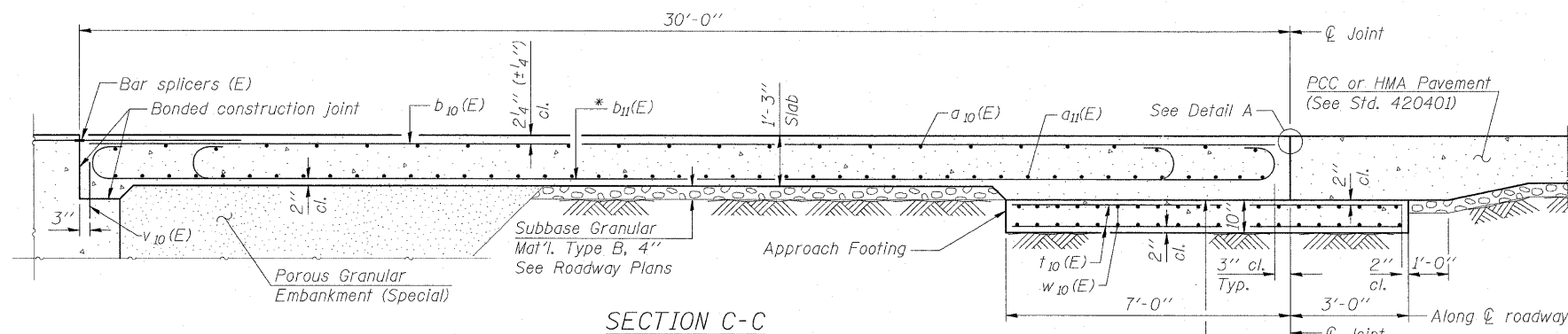
MIN. BAR LAPS

#4 bar = 1'-8"  
#5 bar = 2'-2"

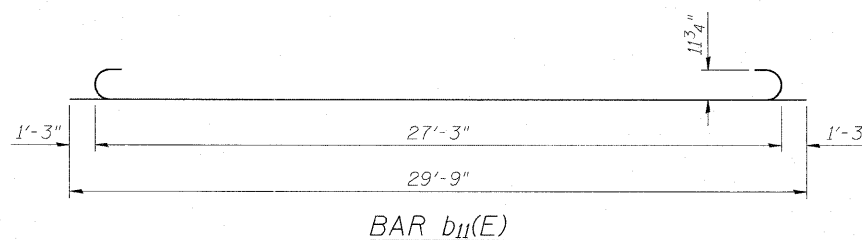
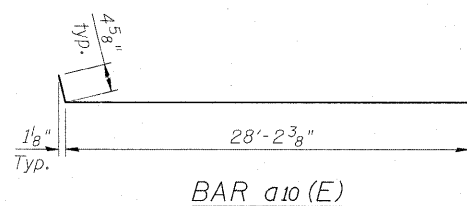
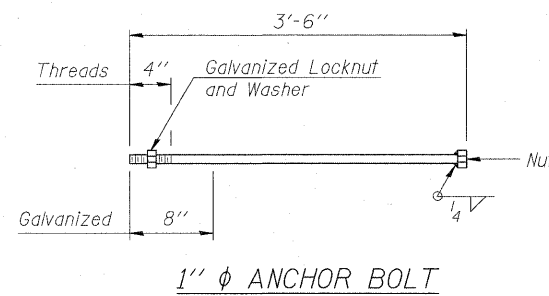
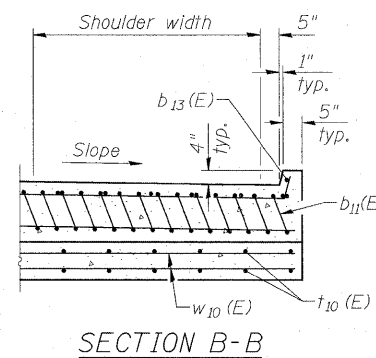
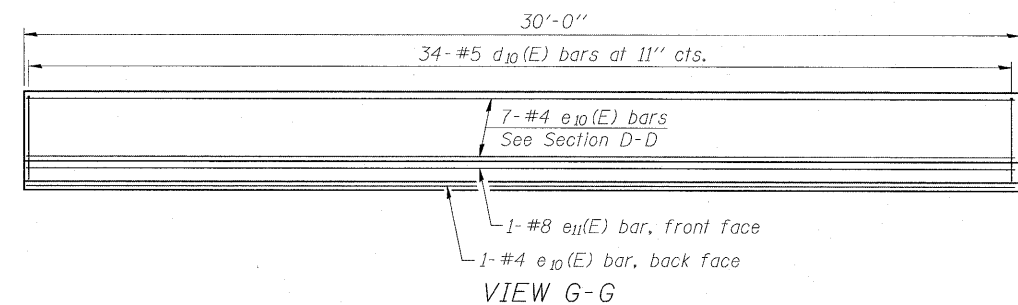
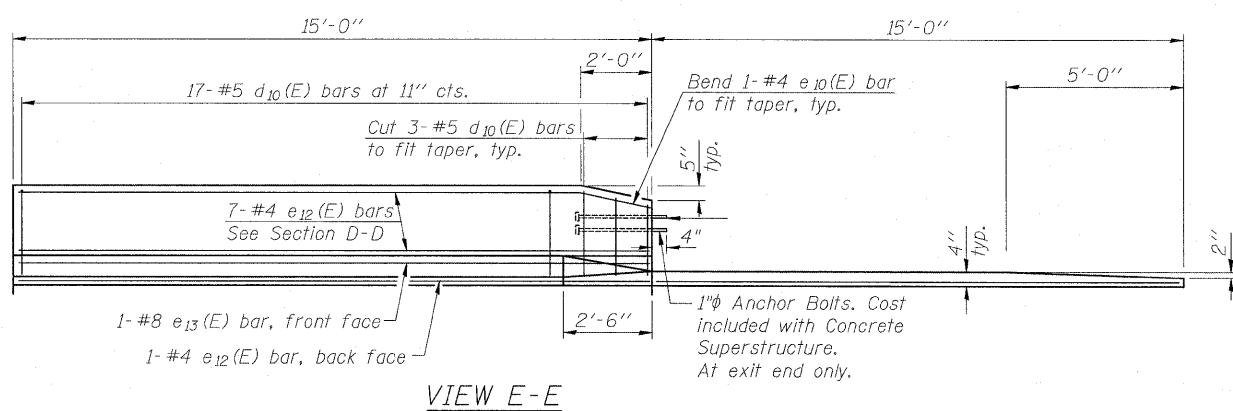
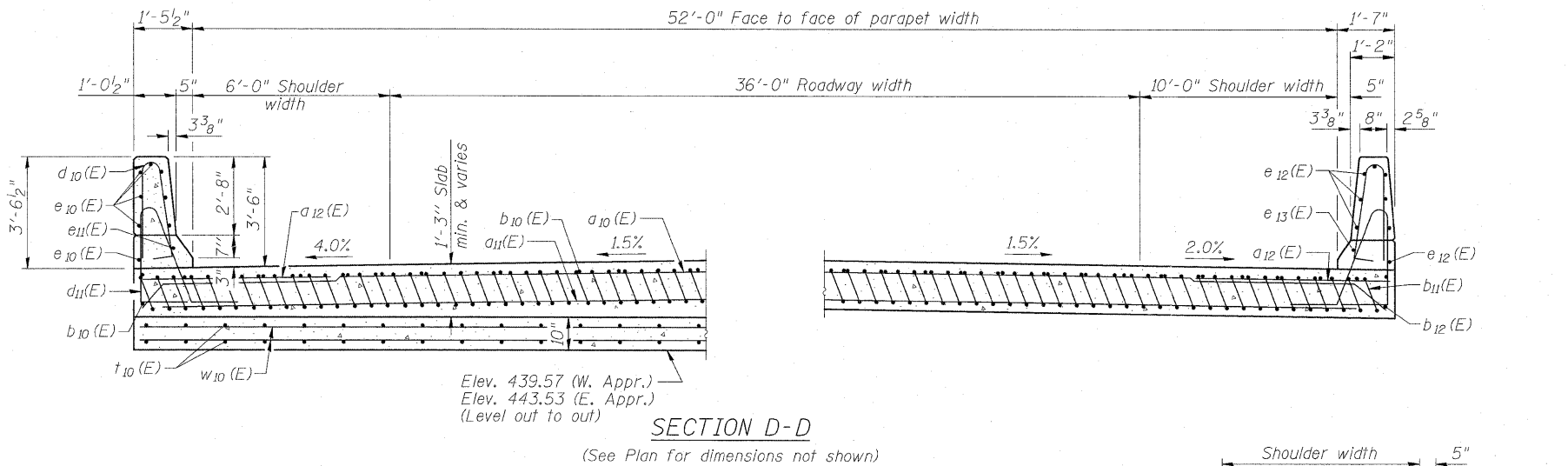


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PLOT SCALE = 1.0000' / IN.	CHECKED - LAS	REVIS	SCALE: NONE			SHEET NO. 12 OF 30 SHEETS	STA. TO STA.	SN 082-0312 & 082-0313 CONTRACT NO. 76C50			
PLOT DATE = 2/25/2011	DATE - 3-18-11	REVIS	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

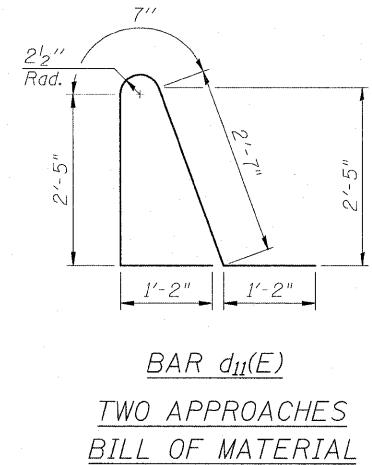
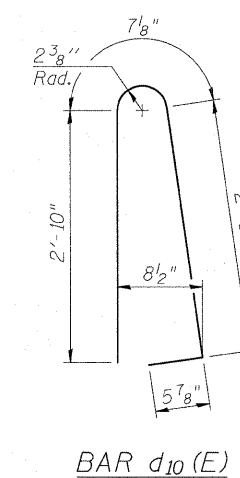
**WESTBOUND BRIDGE**  
**APPROACH SLAB DETAILS 1**  
**INTERSTATE 70 OVER 1ST STREET**  
**FAI-70**  
**SECTION 82-1-2HB**  
**ST. CLAIR COUNTY**  
**STA. 192+97.45**  
**STRUCTURE NO. 082-0312 (EB)**  
**STRUCTURE NO. 082-0313 (WB)**



\* Tilt #9  $b_{11}(E)$  bars as required to maintain clearance.  
 \*\*\* Cost included with Concrete Superstructure.



Notes:  
 See Sheet 12 of 30 for Detail A and View B-B.  
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.  
 Approach footing concrete shall be paid for as Concrete Structures.  
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.  
 For  $v(E)$  bar details, see Sheet 10 of 30.  
 The approach footing maximum applied service bearing pressure ( $Q_{max}$ ) = 2.0 ksf.  
 For bar splicer details, see Sheet 23 of 30.  
 Cost of excavation for approach footing included with Concrete Structures.  
 For Porous Granular Embankment (Special) and drainage treatment details, see Sheet 2 of 30.



BAR  $d_{11}(E)$   
 TWO APPROACHES  
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$a_{10}(E)$	100	#4	28'-7"	—
$a_{11}(E)$	184	#5	28'-5"	—
$a_{12}(E)$	74	#6	6'-0"	—
$b_{10}(E)$	90	#4	29'-8"	—
$b_{11}(E)$	254	#9	29'-9"	—
$b_{12}(E)$	2	#4	14'-8"	—
$b_{13}(E)$	2	#4	14'-8"	—
$d_{10}(E)$	102	#5	6'-10"	—
$d_{11}(E)$	102	#5	7'-11"	—
$e_{10}(E)$	16	#4	29'-8"	—
$e_{11}(E)$	2	#8	28'-8"	—
$e_{12}(E)$	16	#4	14'-8"	—
$e_{13}(E)$	2	#8	14'-8"	—
$t_{10}(E)$	224	#4	9'-8"	—
$w_{10}(E)$	160	#5	28'-1"	—
Concrete Superstructure		Cu. Yd.	172.4	
Concrete Structures		Cu. Yd.	33.6	
Reinforcement Bars, Epoxy Coated		Pound	43,970	
Bridge Deck Grooving		Sq. Yd.	364	
Protective Coat		Sq. Yd.	407	

WESTBOUND BRIDGE  
 APPROACH SLAB DETAILS 2  
 INTERSTATE 70 OVER 1ST STREET  
 FAI-70  
 SECTION 82-1-2HB  
 ST. CLAIR COUNTY  
 STA. 192+97.45  
 STRUCTURE NO. 082-0312 (EB)  
 STRUCTURE NO. 082-0313 (WB)

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 Chicago, IL 60613

FILE NAME = ... \08TRI-0820312-0820313-76C50-013-WBApp\eachSlab2.dgn	USER NAME = SAW	DESIGNED - LAS	REVISED -
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PLOT DATE = 2/25/2011			

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

WESTBOUND BRIDGE APPROACH SLAB DETAILS 2

SCALE: NONE SHEET NO. 13 OF 30 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-2HB	ST. CLAIR	72	43
SN 082-0312 & 082-0313		CONTRACT NO. 76C50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

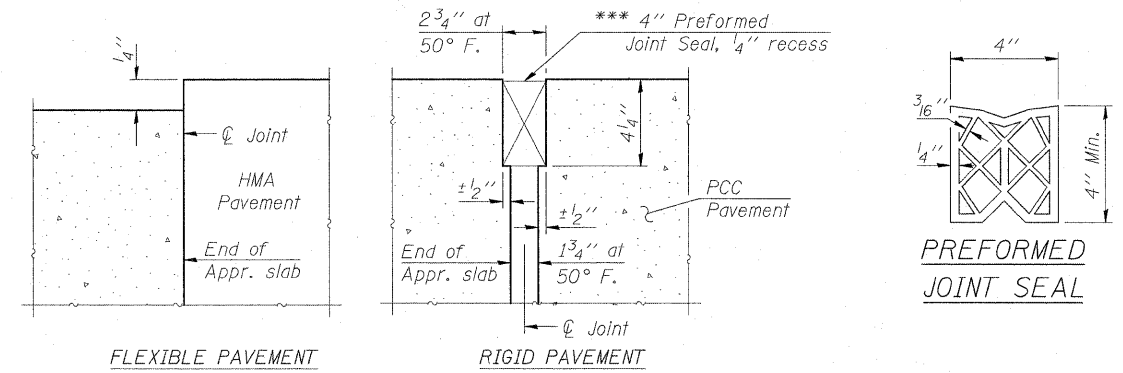


Notes:

See Sheet 15 of 30 for Sections B-B, C-C, & D-D and Views E-E & G-G.

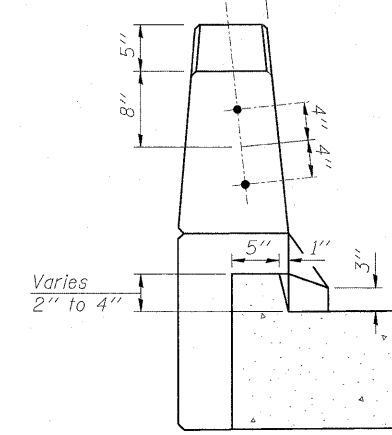
Bars indicated thus: 46x2-#5 etc. indicates 46 lines of bars with 2 lengths per line.

\*\*\* Cost included with Concrete Superstructure.

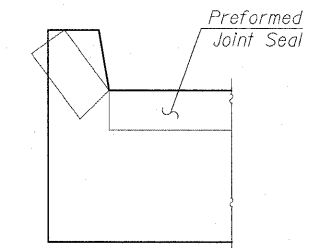


DETAIL A

1"  $\phi$  Anchor bolts  
Type 5 terminal connections only.

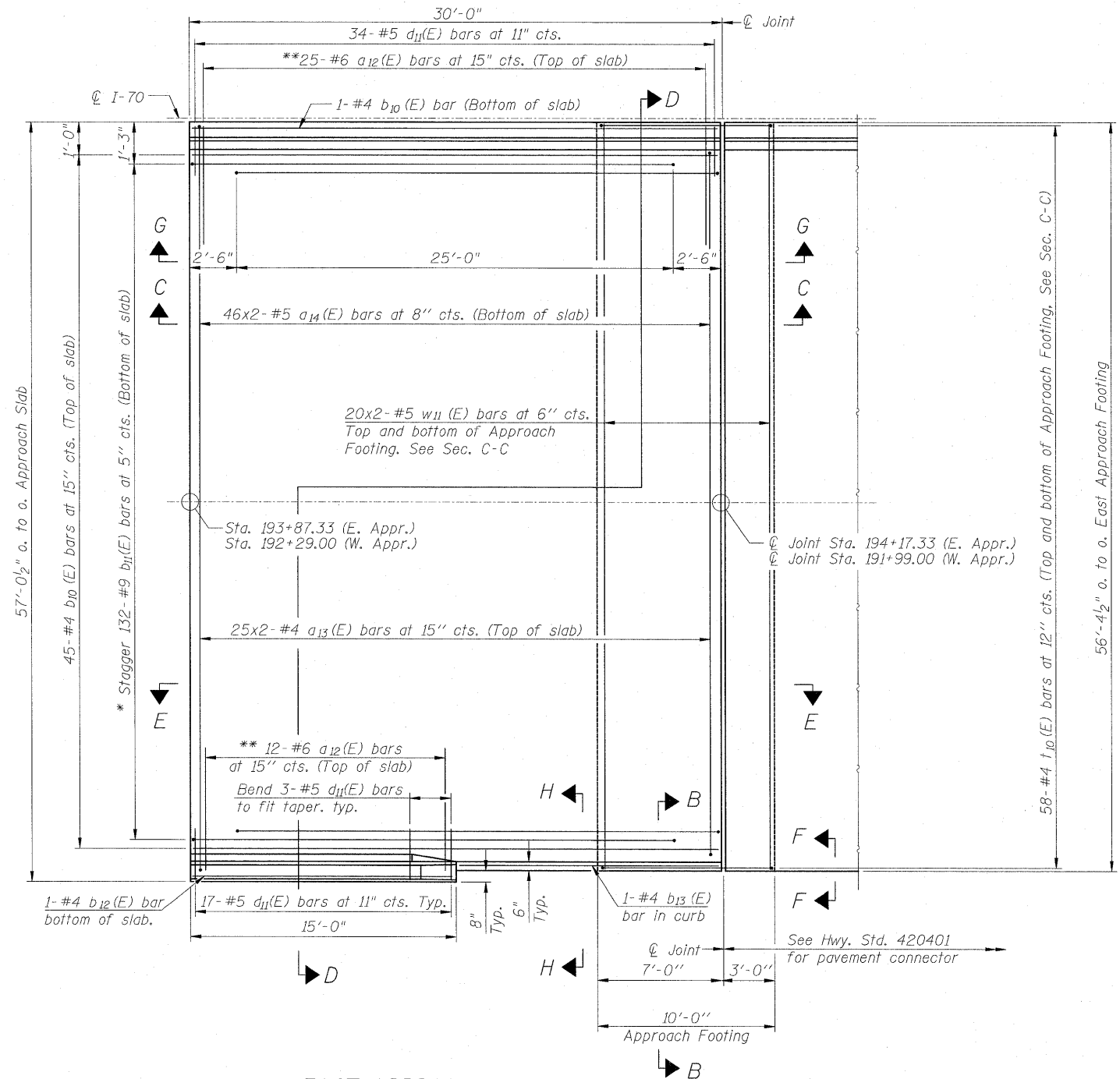


VIEW H-H  
(Exit ends only)



VIEW F-F

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.

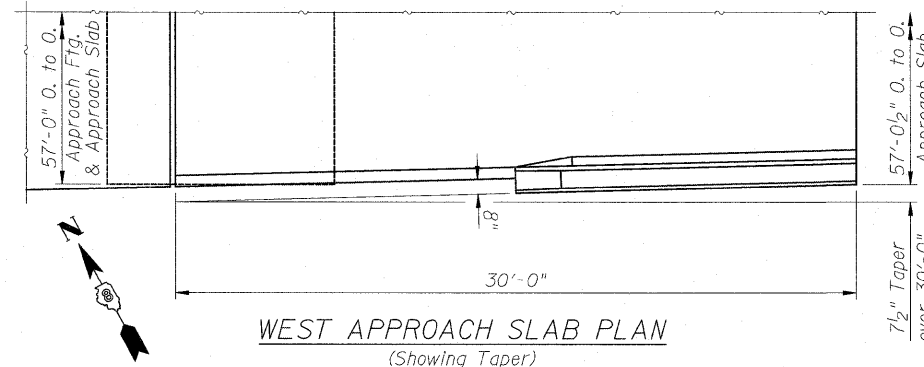


EAST APPROACH SLAB PLAN  
(West Approach Slab Similar)

\* Tilt #9 b11(E) bars as required to maintain clearance.  
\*\* Alternate with a10(E) bars, typ. ea. parapet.

MIN. BAR LAPS

#4 bar = 1'-8"  
#5 bar = 2'-2"



WEST APPROACH SLAB PLAN  
(Showing Taper)

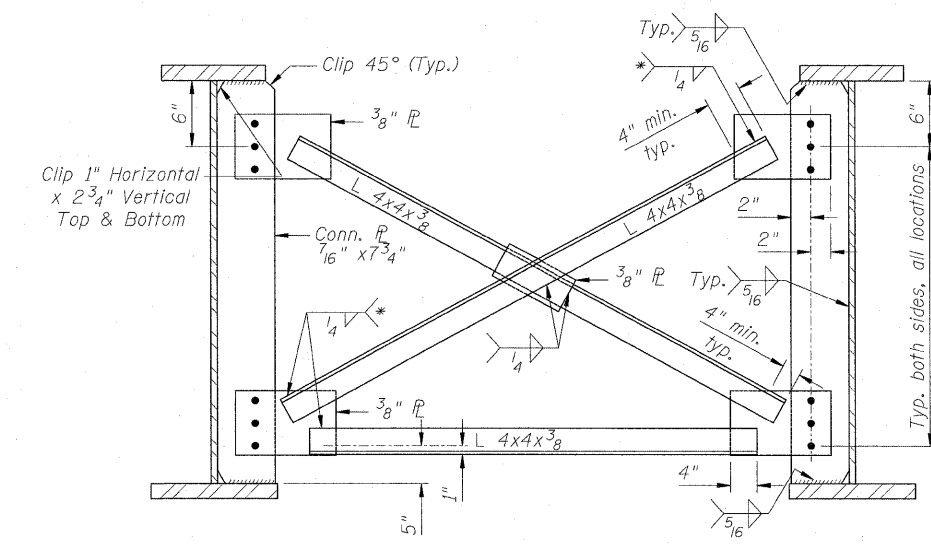
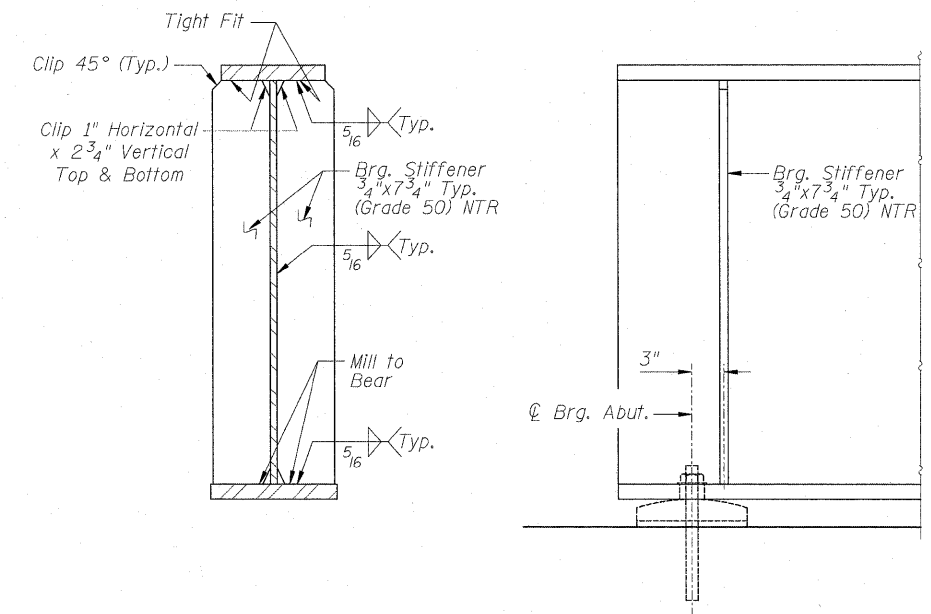
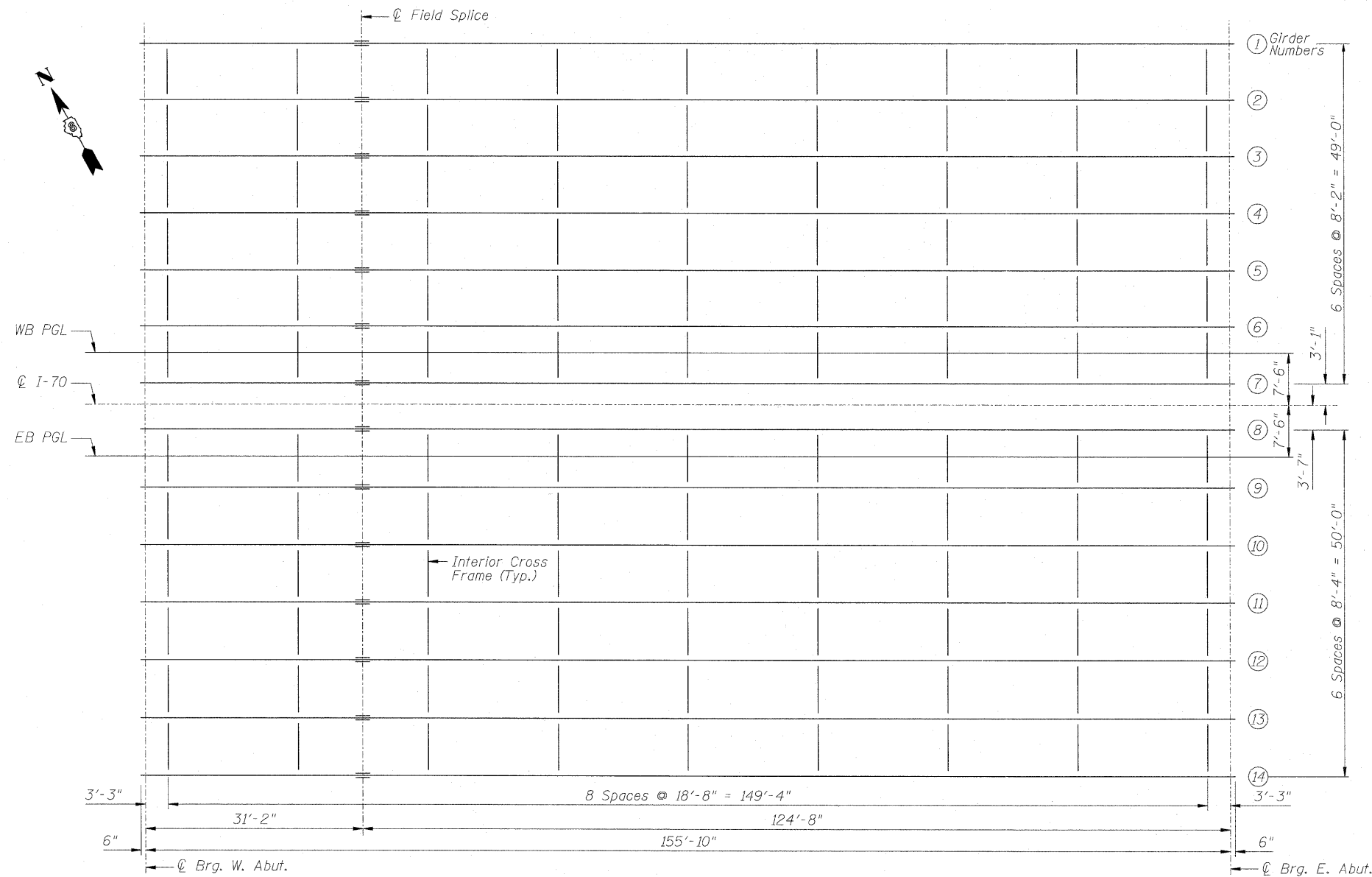
EASTBOUND BRIDGE  
APPROACH SLAB DETAILS 1  
INTERSTATE 70 OVER 1ST STREET  
FAI-70  
SECTION 82-1-2HB  
ST. CLAIR COUNTY  
STA. 192+97.45  
STRUCTURE NO. 082-0312 (EB)  
STRUCTURE NO. 082-0313 (WB)



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PLOT SCALE = 1/8" = 1'-0"	CHECKED - LAS	REVISED -	SCALE: NONE			SHEET NO. 14 OF 30 SHEETS	STA. TO STA.	SN 082-0312 & 082-0313	CONTRACT NO. 76C50	ILLINOIS FED. AID PROJECT		
PLOT DATE = 2/25/2011	DATE - 3-18-11	REVISED -										





\*Fillet weld angles along 3 sides on one face of gusset plate.  
 Bolts shall be 3/4" dia, with 15/16" dia. holes.  
 Two hardened washers required for each set of oversized holes.  
 Interior Cross Frame angles, plates and conn. plates shall be Grade 36.

FRAMING PLAN  
 INTERSTATE 70 OVER 1ST STREET  
 FAI-70  
 SECTION 82-1-2HB  
 ST. CLAIR COUNTY  
 STA. 192+97.45  
 STRUCTURE NO. 082-0312 (EB)  
 STRUCTURE NO. 082-0313 (WB)

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FILE NAME =	USER NAME = SAW	DESIGNED - LAS	REVISED -
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	PLOT DATE = 2/25/2011	DATE - 3-18-11	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

FRAMING PLAN  
 SCALE: NONE SHEET NO. 16 OF 30 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-2HB	ST. CLAIR	72	46
SN 082-0312 & 082-0313		CONTRACT NO. 76C50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

INTERIOR GIRDER MOMENT TABLE		
		0.5
$I_s$	(in <sup>4</sup> )	66,611
$I_c(n)$	(in <sup>4</sup> )	157,218
$I_c(3n)$	(in <sup>4</sup> )	112,051
$S_s$	(in <sup>3</sup> )	2,119
$S_c(n)$	(in <sup>3</sup> )	2,872
$S_c(3n)$	(in <sup>3</sup> )	2,597
DC1	(k/')	1,169
M <sub>DC1</sub>	(k)	3,549
DC2	(k/')	0.145
M <sub>DC2</sub>	(k)	442
DW	(k/')	0.385
M <sub>DW</sub>	(k)	1,171
M <sub>LL + IM</sub>	(k)	3,180
M <sub>u</sub> (Strength I)	(k)	12,310
$\phi_f M_n$ , $\phi_f M_{nc}$	(k)	13,701
$f_s$ DC1	(ksi)	20.1
$f_s$ DC2	(ksi)	2.1
$f_s$ DW	(ksi)	5.3
$f_s$ 1.3(LL + IM)	(ksi)	17.3
$f_s$ (Service II)	(ksi)	44.8
V <sub>f</sub>	(k)	31.6

\* Compact sections

INTERIOR GIRDER REACTION TABLE		
		Abut.
R <sub>DC1</sub>	(k)	90.1
R <sub>DC2</sub>	(k)	11.3
R <sub>DW</sub>	(k)	30.1
R <sub>LL + IM</sub>	(k)	112.3
R <sub>Total</sub>	(k)	243.8

**Notes:**

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (F<sub>y</sub>=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

$I_s$ ,  $S_s$ : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$  (Total-Strength I, and Service II) due to non-composite dead loads (in<sup>4</sup> and in<sup>3</sup>).

$I_c(n)$ ,  $S_c(n)$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s$  (Total-Strength I, and Service II) due to short-term composite live loads (in<sup>4</sup> and in<sup>3</sup>).

$I_c(3n)$ ,  $S_c(3n)$ : Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing  $f_s$  (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in<sup>4</sup> and in<sup>3</sup>).

DC1: Un-factored non-composite dead load (kips/ft.).

M<sub>DC1</sub>: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M<sub>DC2</sub>: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M<sub>DW</sub>: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M<sub>LL + IM</sub>: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

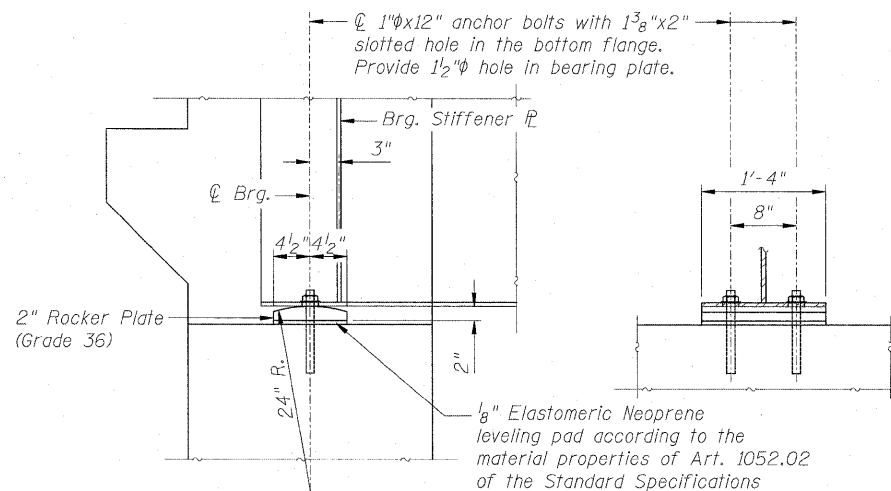
M<sub>u</sub> (Strength I): Factored design moment (kip-ft.).  
1.25 (M<sub>DC1</sub> + M<sub>DC2</sub>) + 1.5 M<sub>DW</sub> + 1.75 M<sub>LL + IM</sub>

$\phi_f M_n$ : Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).

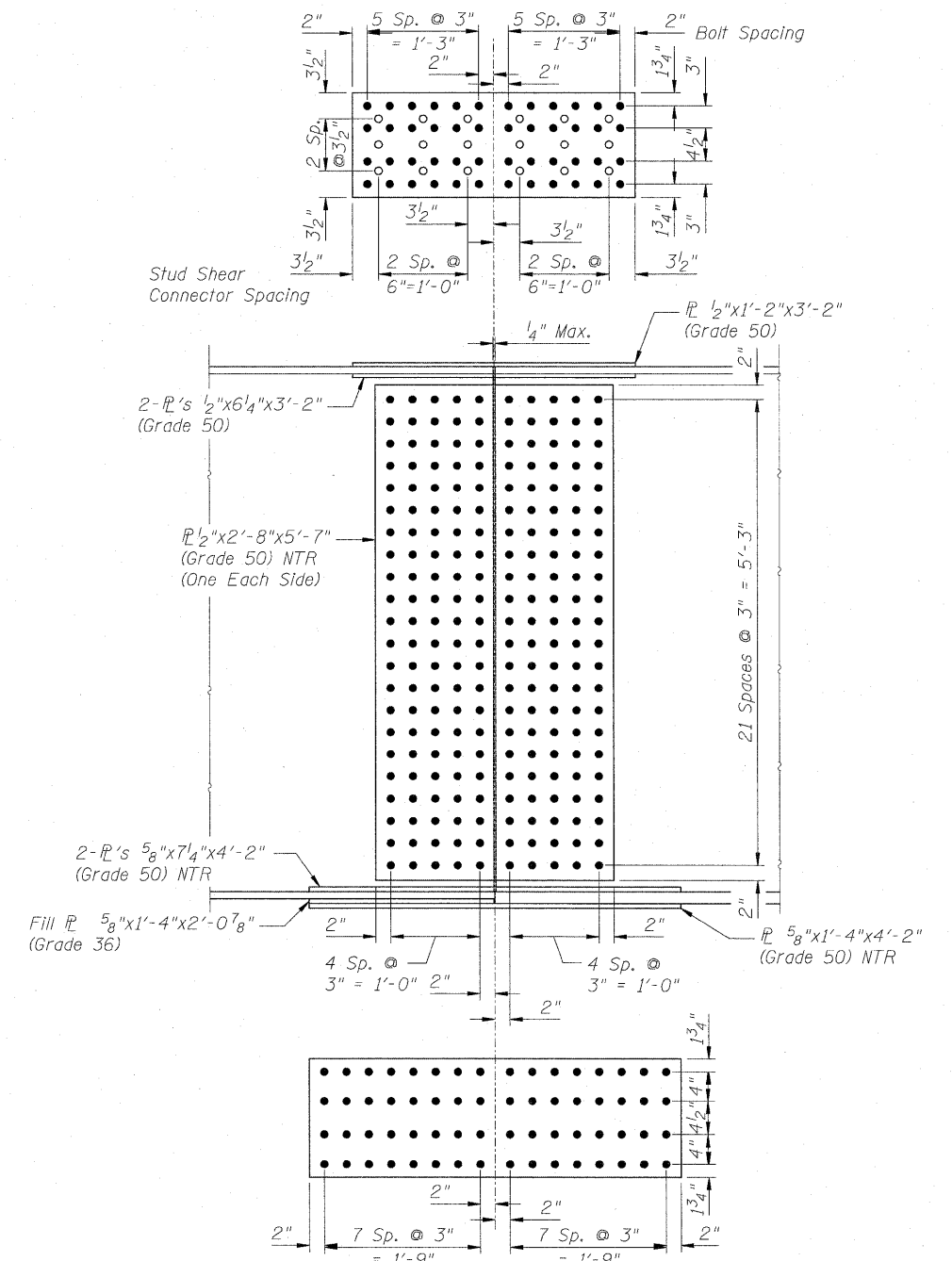
$\phi_f M_{nc}$ : Compact non-composite negative moment capacity computed according to Article A6.1.1 (kip-ft.).

$f_s$  (Service II): Sum of stresses as computed from the moments below (ksi).  
M<sub>DC1</sub> + M<sub>DC2</sub> + M<sub>DW</sub> + 1.3 M<sub>LL + IM</sub>

V<sub>f</sub>: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.



BEARING DETAILS



FIELD SPLICE DETAIL

Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 7/8" diameter, holes 1 5/16" diameter.

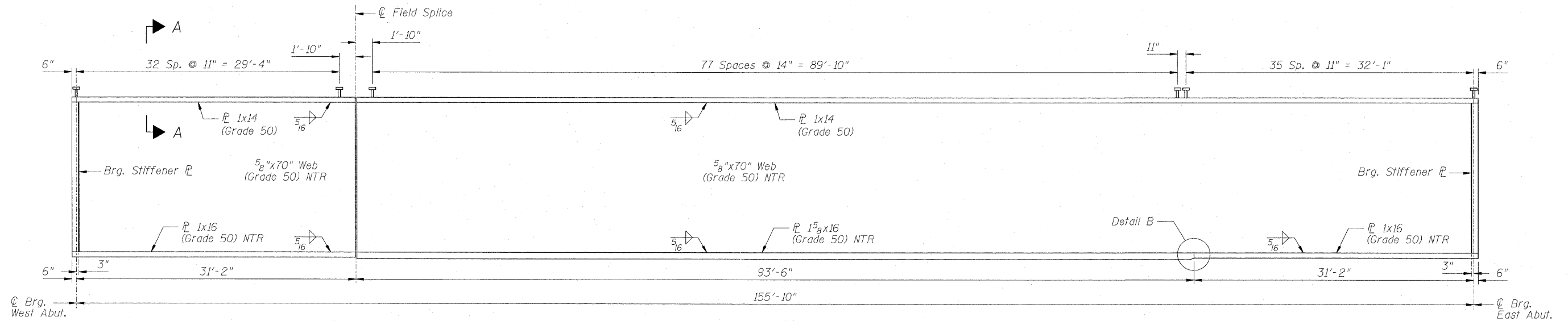
**BILL OF MATERIAL**

Item	Unit	Total
Stud Shear Connectors	Each	6,426
Anchor Bolts, 1"	Each	56

**STRUCTURAL STEEL DETAILS 1**  
**INTERSTATE 70 OVER 1ST STREET**  
**FAI-70**  
**SECTION 82-1-2HB**  
**ST. CLAIR COUNTY**  
**STA. 192+97.45**  
**STRUCTURE NO. 082-0312 (EB)**  
**STRUCTURE NO. 082-0313 (WB)**

**ZROKA** Engineering, P.C.  
 4216 North Hermitage  
 Chicago, IL 60613

FILE NAME = ... \DBTR1-0820312-0820313-76C50-017-Steel	USER NAME = SAW	DESIGNED - LAS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STRUCTURAL STEEL DETAILS 1</b>	F.A.P. RTE. 998	SECTION 82-1-2HB	COUNTY ST. CLAIR	TOTAL SHEETS 72	SHEET NO. 47	
PLOT SCALE = 1/8" = 1'-0"	PLOT DATE = 2/25/2011	DRAWN - SAW	REVISED -			SCALE: NONE	SHEET NO. 17 OF 30 SHEETS	STA.	TO STA.	SN 082-0312 & 082-0313	CONTRACT NO. 76C50
CHECKED - LAS	DATE - 3-18-11	REVISOR -	REVISOR -			ILLINOIS FED. AID PROJECT					



**GIRDER ELEVATION**

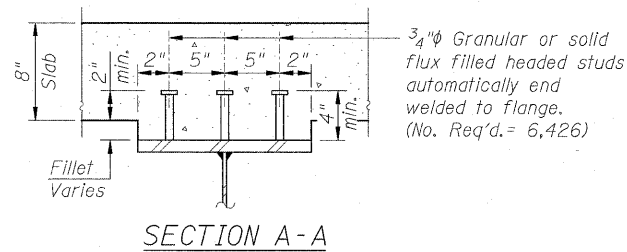
Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

For Stud Shear Connector spacing at splice, see Splice Detail on Sheet 17 of 30.

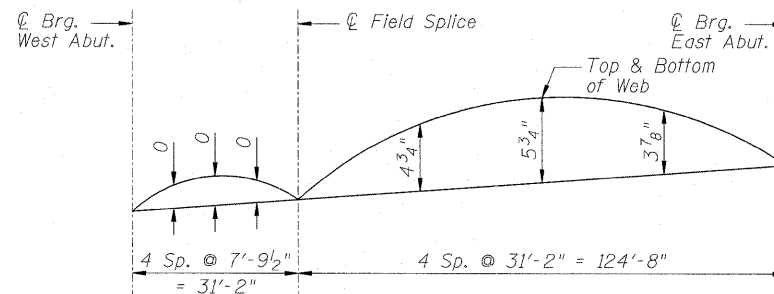
**TOP OF WEB ELEVATIONS**

(For Fabrication Only)

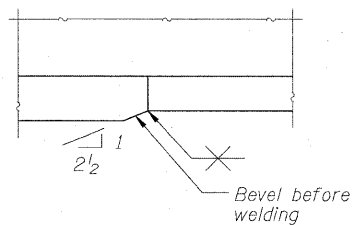
Girder	℄ Brg. W. Abut.	℄ Field Splice	℄ Brg. E. Abut.
1	441.616	442.198	444.889
2	441.779	442.361	445.052
3	441.904	442.486	445.176
4	442.026	442.608	445.299
5	442.146	442.728	445.419
6	442.024	442.606	445.296
7	441.791	442.373	445.064
8	441.811	442.393	445.084
9	442.034	442.616	445.306
10	442.137	442.718	445.409
11	442.011	442.593	445.284
12	441.887	442.468	445.159
13	441.753	442.334	445.025
14	441.586	442.168	444.859



**SECTION A-A**



**CAMBER DIAGRAM**



**DETAIL B**

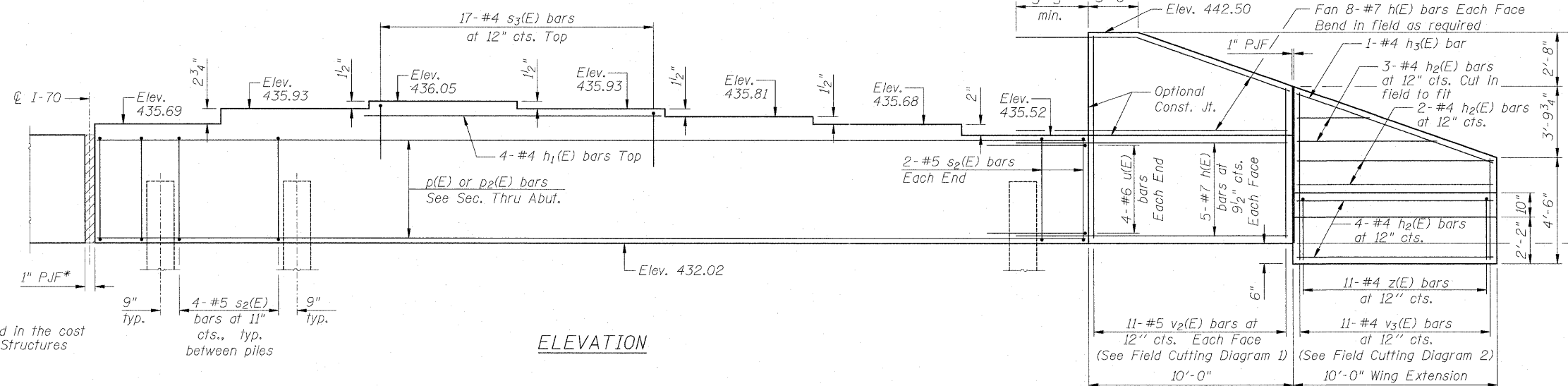
**STRUCTURAL STEEL DETAILS 2**  
**INTERSTATE 70 OVER 1ST STREET**  
**FAI-70**  
**SECTION 82-1-2HB**  
**ST. CLAIR COUNTY**  
**STA. 192+97.45**  
**STRUCTURE NO. 082-0312 (EB)**  
**STRUCTURE NO. 082-0313 (WB)**

**ZROKA** Engineering, P.C.  
 4216 North Hermitage  
 Chicago, IL 60613

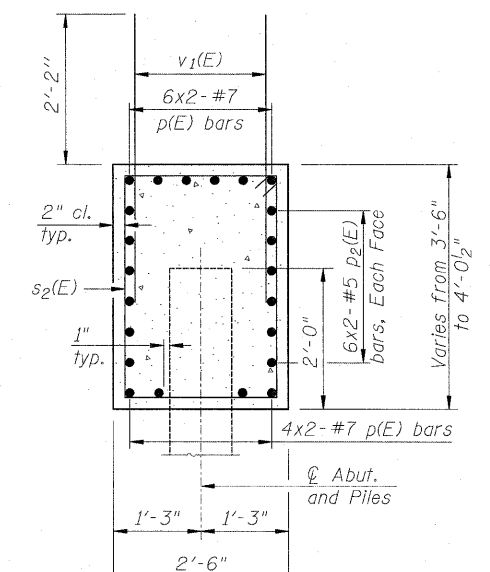
FILE NAME = ...DBTRI-0820312-0820313-76C50-018-SteelDetails2.dgn	USER NAME = SAW	DESIGNED - LAS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STRUCTURAL STEEL DETAILS 2</b>	F.A.P. RTE. 998	SECTION 82-1-2HB	COUNTY ST. CLAIR	TOTAL SHEETS 72	SHEET NO. 48
PLOT SCALE = 1/8000' / IN.	CHECKED - LAS	REVISED -	SN 082-0312 & 082-0313			CONTRACT NO. 76C50				
PLOT DATE = 2/25/2011	DATE - 3-18-11	REVISED -	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				
SCALE: NONE	SHEET NO. 18 OF 30 SHEETS	STA. TO STA.								



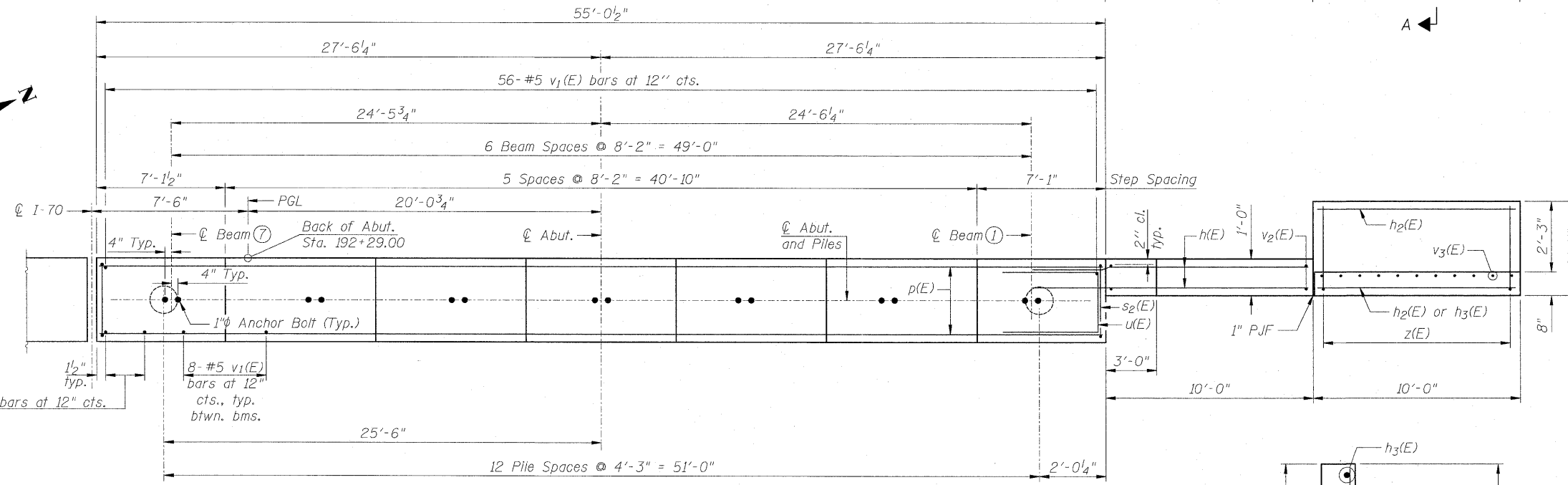
Notes:  
Pour steps monolithically with cap.



\*PJF included in the cost of Concrete Structures



SEC. THRU ABUT.



PLAN

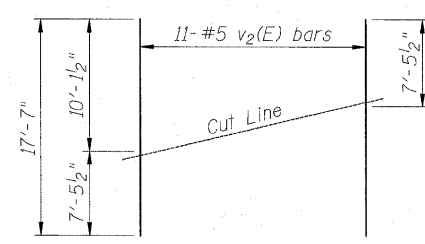
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	26	#7	13'-9"	
h1(E)	4	#4	16'-0"	
h2(E)	11	#4	9'-8"	
h3(E)	1	#4	10'-4"	
p(E)	20	#7	30'-3"	
p2(E)	24	#5	29'-2"	
s2(E)	52	#5	11'-5"	
s3(E)	17	#4	5'-8"	
u(E)	8	#6	6'-10"	
v1(E)	112	#5	4'-4"	
v2(E)	11	#5	17'-7"	
v3(E)	11	#4	8'-0"	
z(E)	11	#4	5'-4"	

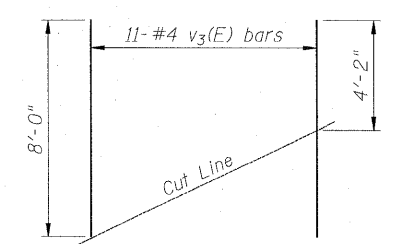
Concrete Structures	Cu. Yd.	25.1
Reinforcement Bars, Epoxy Coated	Pound	4,390
Furnishing Metal Shell Piles 14" x 0.250"	Foot	1,176
Driving Piles	Foot	1,176
Test Pile Metal Shells	Each	1

**PILE DATA**  
Type: Metal Shell - 14 in. dia. x 0.25 in. walls  
Nominal Required Bearing: 400 k  
Factored Resistance Available: 200 k  
Est. Length: 98 ft.  
No. Production Piles: 12  
No. Test Piles: 1  
Piles shall be driven through 18" diameter precored holes extending to elevation 403.0 according to Article 512.09(c) of the Standard Specifications.  
Cost included in driving piles.

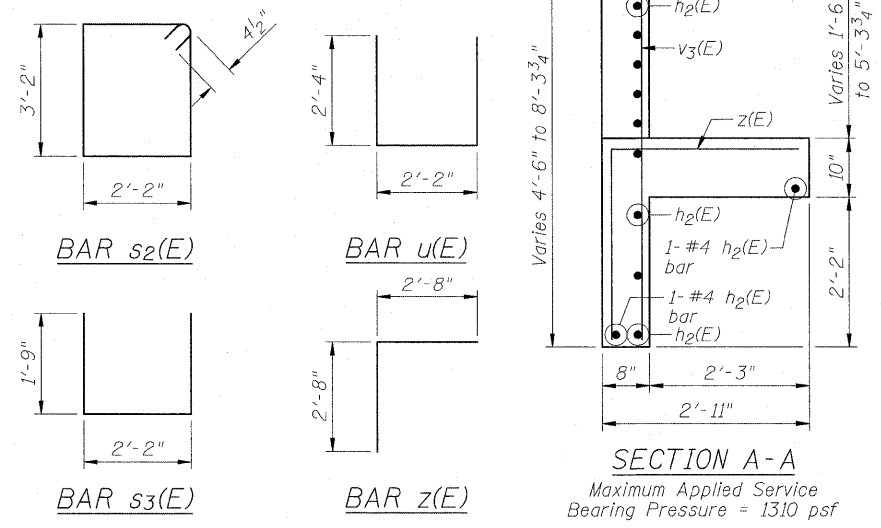
**MIN. BAR LAP**  
#5 Bar = 3'-8"  
#7 Bar = 5'-10"



FIELD CUTTING DIAGRAM 1  
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



FIELD CUTTING DIAGRAM 2  
Order v3(E) full length. Cut as shown and discard remainder.

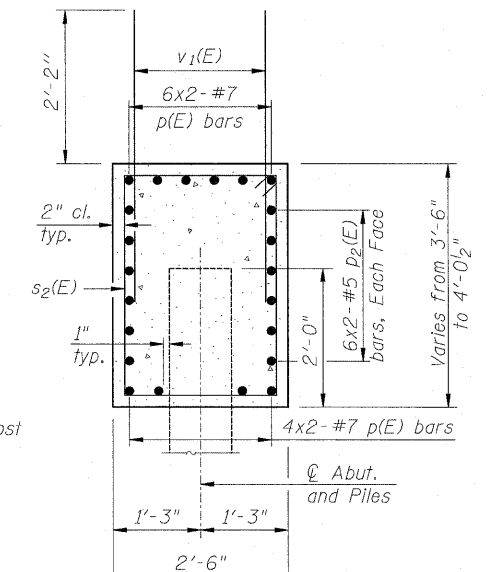
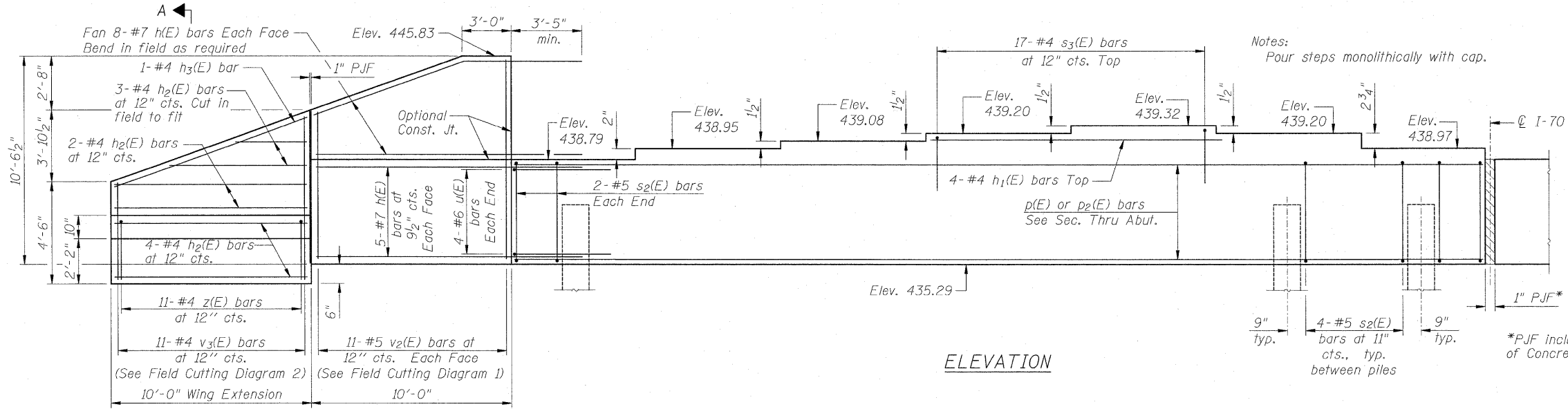


SECTION A-A  
Maximum Applied Service Bearing Pressure = 1310 psf

**WESTBOUND WEST ABUTMENT**  
**INTERSTATE 70 OVER 1ST STREET**  
FAI-70  
SECTION 82-1-2HB  
ST. CLAIR COUNTY  
STA. 192+97.45  
STRUCTURE NO. 082-0312 (EB)  
STRUCTURE NO. 082-0313 (WB)

**ZROKA** Engineering, P.C.  
4216 North Hermitage  
Chicago, IL 60613

FILE NAME = ...WBTRI-0820312-0820313-76C58-019-WBWestAbut.dgn	USER NAME = SAW	DESIGNED - LAS	REvised -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>WESTBOUND WEST ABUTMENT</b>	F.A.P. RTE. 998	SECTION 82-1-2HB	COUNTY ST. CLAIR	TOTAL SHEETS 72	SHEET NO. 49		
PLOT SCALE = 1.0000' / IN.	CHECKED - LAS	REvised -	SCALE: NONE			SHEET NO. 19 OF 30 SHEETS	STA. TO STA.	SN 082-0312 & 082-0313	CONTRACT NO. 76C50	ILLINOIS FED. AID PROJECT		
PLOT DATE = 2/25/2011	DATE - 3-18-11	REvised -										



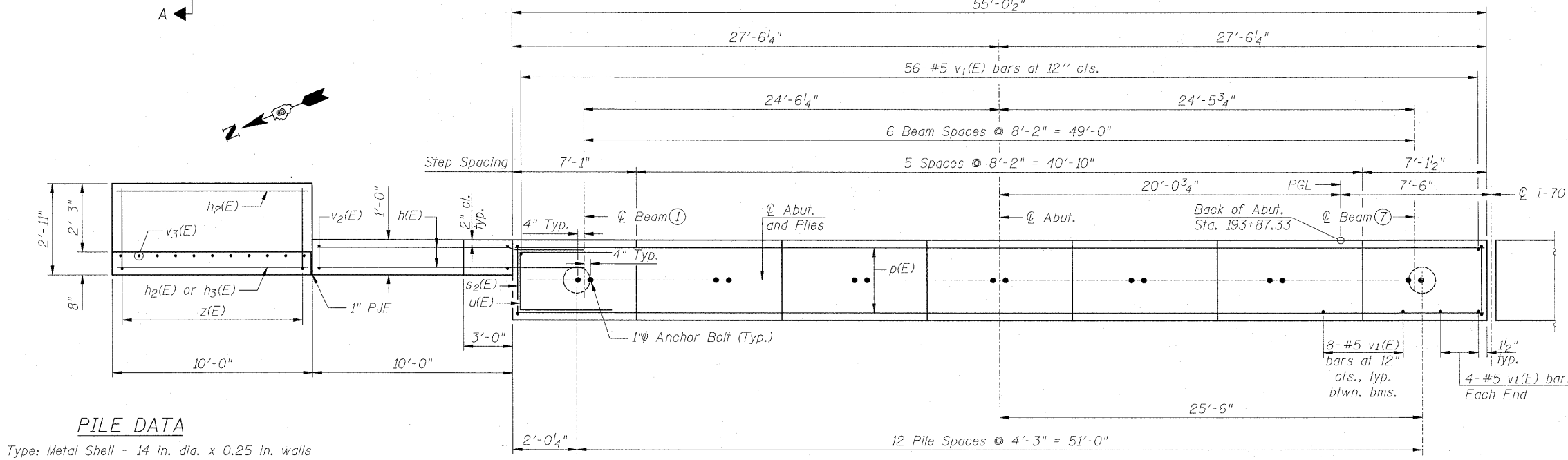
SEC. THRU ABUT.

BILL OF MATERIAL

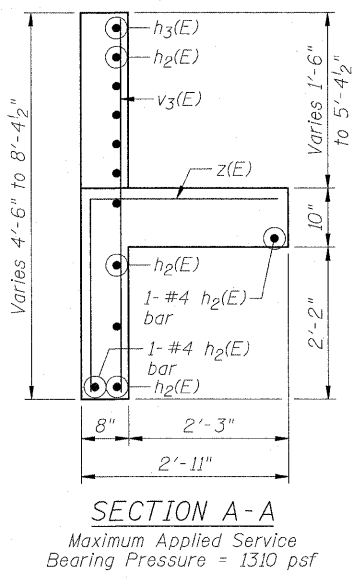
Bar	No.	Size	Length	Shape
h(E)	26	#7	13'-9"	
h <sub>1</sub> (E)	4	#4	16'-0"	
h <sub>2</sub> (E)	11	#4	9'-8"	
h <sub>3</sub> (E)	1	#4	10'-4"	
p(E)	20	#7	30'-3"	
p <sub>2</sub> (E)	24	#5	29'-2"	
s <sub>2</sub> (E)	52	#5	11'-5"	
s <sub>3</sub> (E)	17	#4	5'-8"	
u(E)	8	#6	6'-10"	
v <sub>1</sub> (E)	112	#5	4'-4"	
v <sub>2</sub> (E)	11	#5	17'-7"	
v <sub>3</sub> (E)	11	#4	8'-0"	
z(E)	11	#4	5'-4"	
Concrete Structures		Cu. Yd.	25.2	
Reinforcement Bars, Epoxy Coated		Pound	4,390	
Furnishing Metal Shell Piles 14" x 0.250"		Foot	984	
Driving Piles		Foot	984	
Test Pile Metal Shells		Each	1	

For details of Bar Splicers, see Sheet 23 of 30.  
 For details of piles, see Sheet 24 of 30.  
 Bars indicated thus: 6x2-#7 etc. indicates 6 lines of bars with 2 lengths per line.

WESTBOUND EAST ABUTMENT  
 INTERSTATE 70 OVER 1ST STREET  
 FAI-70  
 SECTION 82-1-2HB  
 ST. CLAIR COUNTY  
 STA. 192+97.45  
 STRUCTURE NO. 082-0312 (EB)  
 STRUCTURE NO. 082-0313 (WB)



PLAN



SECTION A-A

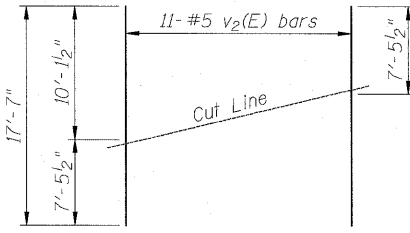
Maximum Applied Service Bearing Pressure = 1310 psf

PILE DATA

Type: Metal Shell - 14 in. dia. x 0.25 in. walls  
 Nominal Required Bearing: 400 k  
 Factored Resistance Available: 200 k  
 Est. Length: 82 ft.  
 No. Production Piles: 12  
 No. Test Piles: 1  
 Piles shall be driven through 18" diameter precored holes extending to elevation 403.0 according to Article 512.09(c) of the Standard Specifications.  
 Cost included in driving piles.

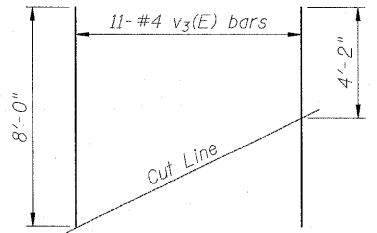
MIN. BAR LAP

#5 Bar = 3'-8"  
 #7 Bar = 5'-10"



FIELD CUTTING DIAGRAM 1

Order v<sub>2</sub>(E) full length. Cut as shown and use remainder of bars in opposite face.



FIELD CUTTING DIAGRAM 2

Order v<sub>3</sub>(E) full length. Cut as shown and discard remainder.

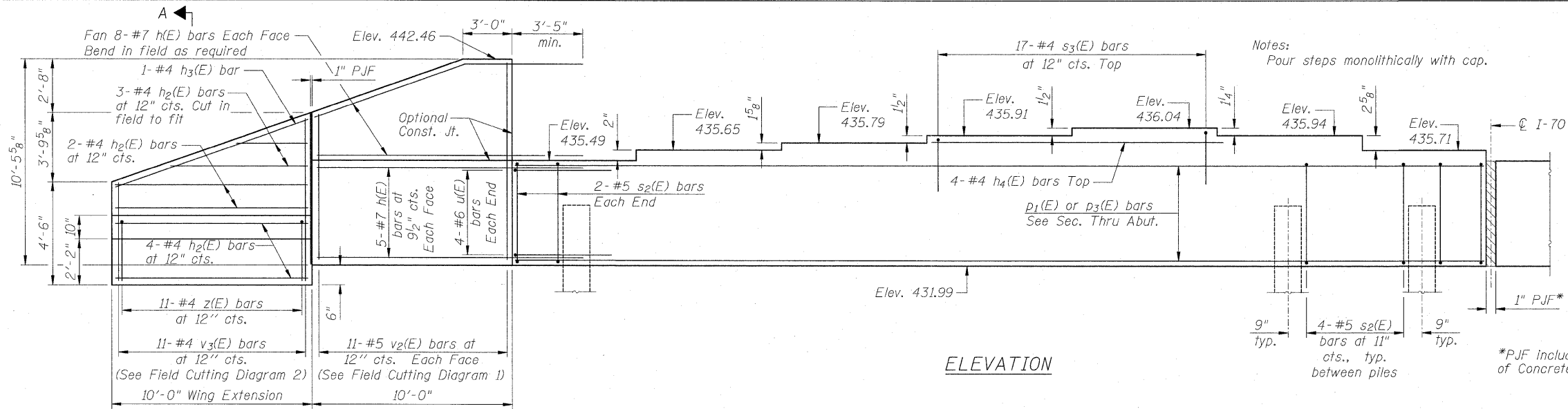


STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

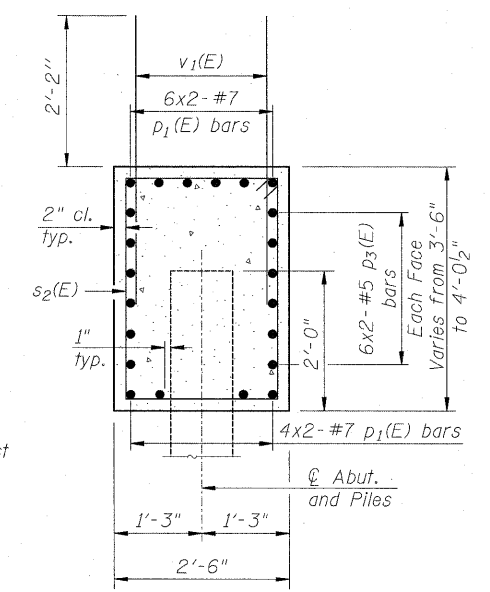
WESTBOUND EAST ABUTMENT

FILE NAME =	USER NAME = SAW	DESIGNED - LAS	REVISED -
...082-0312-082-0313-76C50-020-WBE	4216NorthHermitage.dgn	DRAWN - SAW	REVISED -
	PLOT SCALE = 1.0000 ' / IN.	CHECKED - LAS	REVISED -
	PLOT DATE = 2/25/2011	DATE - 3-18-11	REVISED -

SCALE: NONE	SHEET NO. 20 OF 30 SHEETS	STA. TO STA.	F.A.P. RTE. 998	SECTION 82-1-2HB	COUNTY ST. CLAIR	TOTAL SHEETS 72	SHEET NO. 50
			SN 082-0312 & 082-0313		CONTRACT NO. 76C50		
			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



ELEVATION



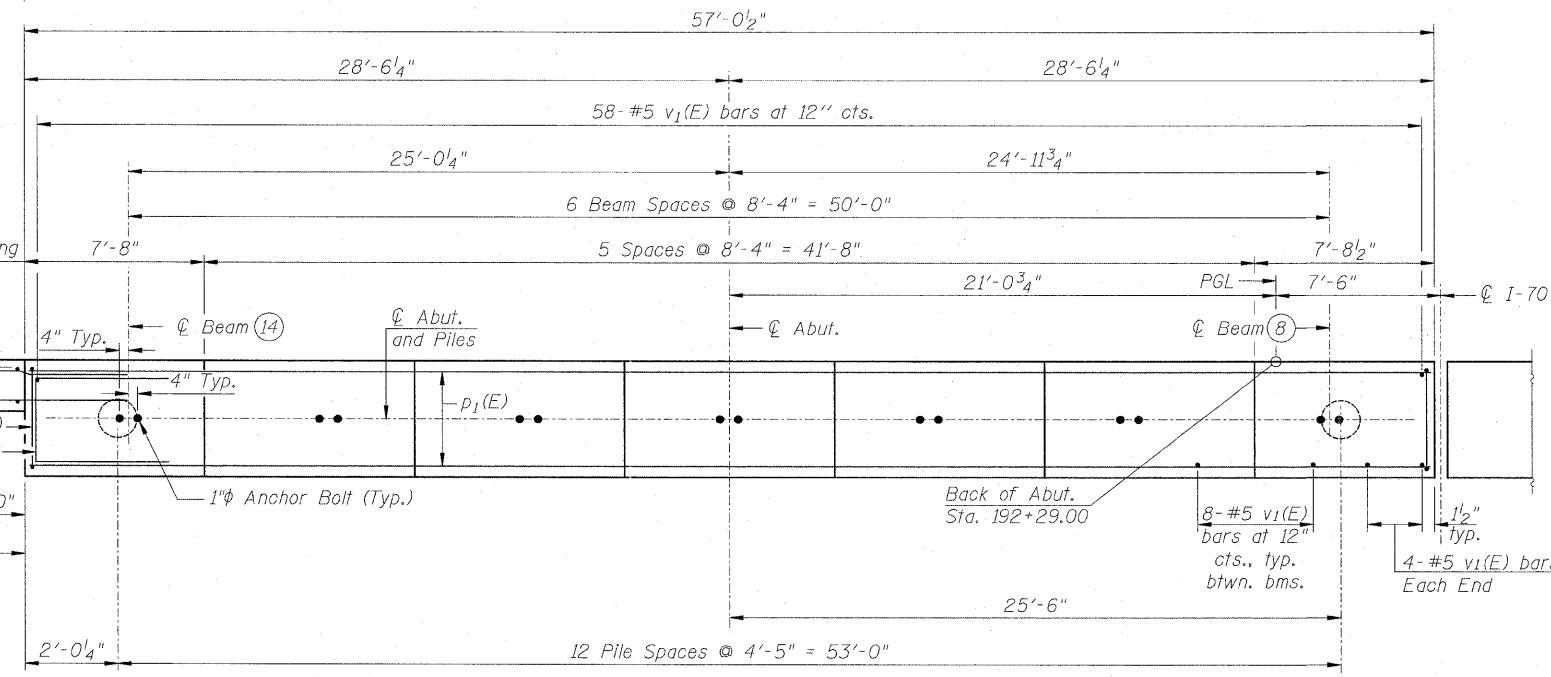
SEC. THRU ABUT.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	26	#7	13'-9"	—
h2(E)	11	#4	9'-8"	—
h3(E)	1	#4	10'-4"	—
h4(E)	4	#4	16'-4"	—
p1(E)	20	#7	31'-3"	—
p3(E)	24	#5	30'-2"	—
s2(E)	52	#5	11'-5"	□
s3(E)	17	#4	5'-8"	□
u(E)	8	#6	6'-10"	□
v1(E)	116	#5	4'-4"	—
v2(E)	11	#5	17'-7"	—
v3(E)	11	#4	8'-0"	—
z(E)	11	#4	5'-4"	┌
Concrete Structures		Cu. Yd.	25.9	
Reinforcement Bars, Epoxy Coated		Pound	4,480	
Furnishing Metal Shell Piles 14" x 0.250"		Foot	744	
Driving Piles		Foot	744	
Test Pile Metal Shells		Each	1	

For details of Bar Splicers, see Sheet 23 of 30.  
 For details of piles, see Sheet 24 of 30.  
 Bars indicated thus: 6x2-#7 etc. indicates 6 lines of bars with 2 lengths per line.

**EASTBOUND WEST ABUTMENT**  
**INTERSTATE 70 OVER 1ST STREET**  
**FAI-70**  
**SECTION 82-1-2HB**  
**ST. CLAIR COUNTY**  
**STA. 192+97.45**  
**STRUCTURE NO. 082-0312 (EB)**  
**STRUCTURE NO. 082-0313 (WB)**



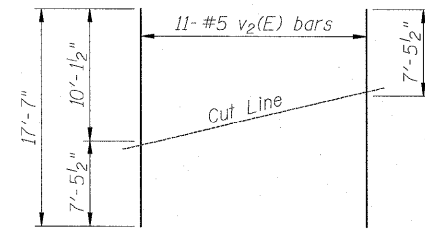
PLAN

PILE DATA

Type: Metal Shell - 14 in. dia. x 0.25 in. walls  
 Nominal Required Bearing: 400 k  
 Factored Resistance Available: 200 k  
 Est. Length: 62 ft.  
 No. Production Piles: 12  
 No. Test Piles: 1  
 Piles shall be driven through 18" diameter precored holes extending to elevation 407.0 according to Article 512.09(c) of the Standard Specifications.  
 Cost included in driving piles.

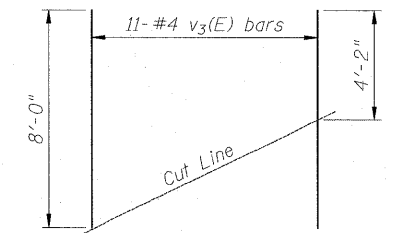
MIN. BAR LAP

#5 Bar = 3'-8"  
 #7 Bar = 5'-10"



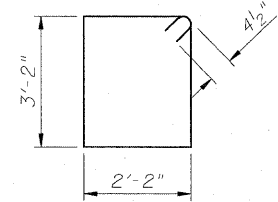
FIELD CUTTING DIAGRAM 1

Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.

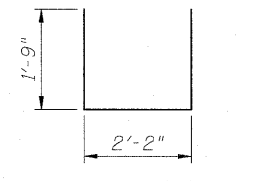


FIELD CUTTING DIAGRAM 2

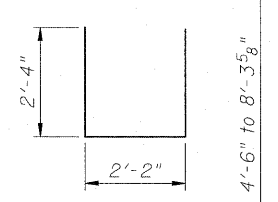
Order v3(E) full length. Cut as shown and discard remainder.



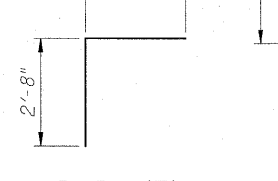
BAR s2(E)



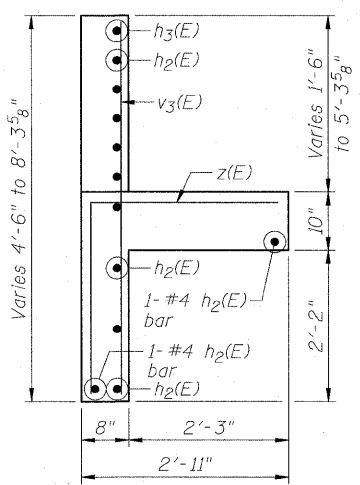
BAR s3(E)



BAR u(E)



BAR z(E)



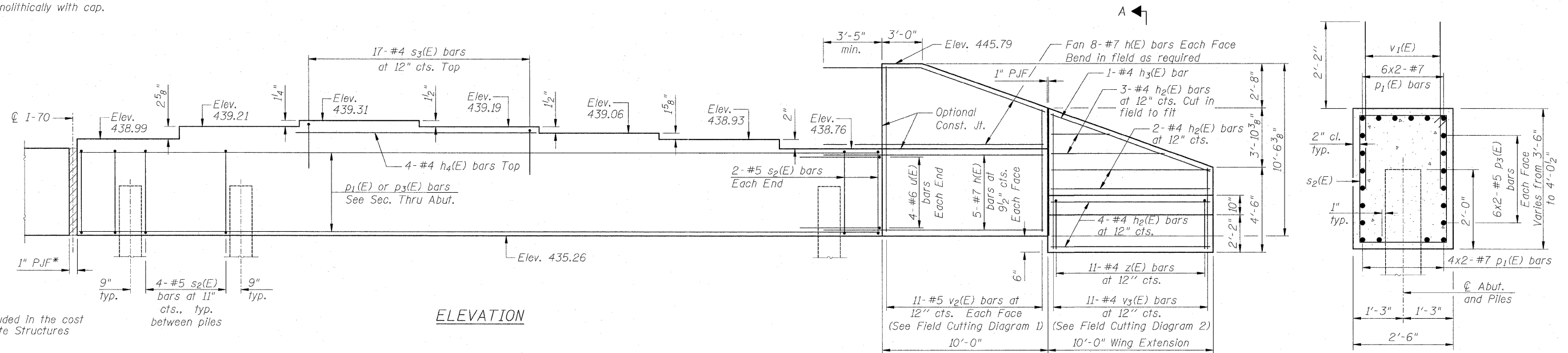
SECTION A-A

Maximum Applied Service Bearing Pressure = 1310 psf



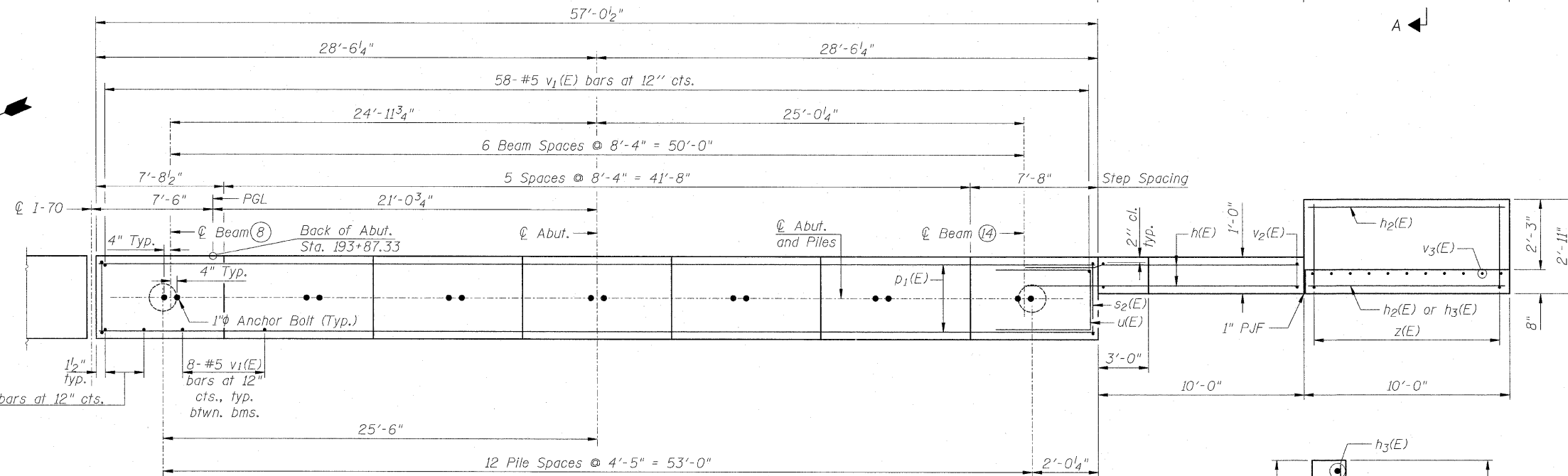
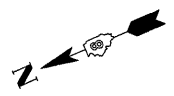
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PLOT SCALE = 1.0000' / IN.	DRAWN - SAW	CHECKED - LAS	REVISD -			SCALE: NONE	SHEET NO. 21 OF 30 SHEETS	STA. TO STA.	SN 082-0312 & 082-0313		CONTRACT NO. 76C50
PLOT DATE = 2/25/2011	DATE - 3-18-11	REVISD -	REVISD -					FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

Notes:  
Pour steps monolithically with cap.



\*PJF included in the cost of Concrete Structures

ELEVATION



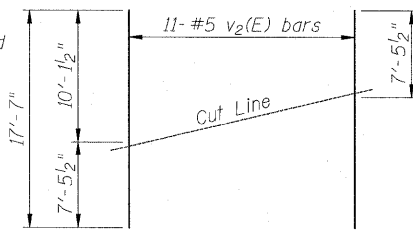
PLAN

PILE DATA

Type: Metal Shell - 14 in. dia. x 0.25 in. walls  
Nominal Required Bearing: 400 k  
Factored Resistance Available: 200 k  
Est. Length: 75 ft.  
No. Production Piles: 12  
No. Test Piles: 1  
Piles shall be driven through 18" diameter precored holes extending to elevation 407.0 according to Article 512.09(c) of the Standard Specifications.  
Cost included in driving piles.

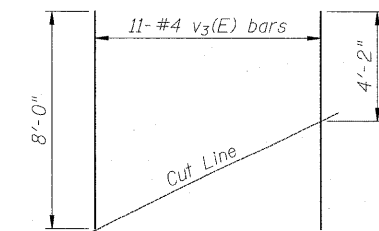
MIN. BAR LAP

#5 Bar = 3'-8"  
#7 Bar = 5'-10"



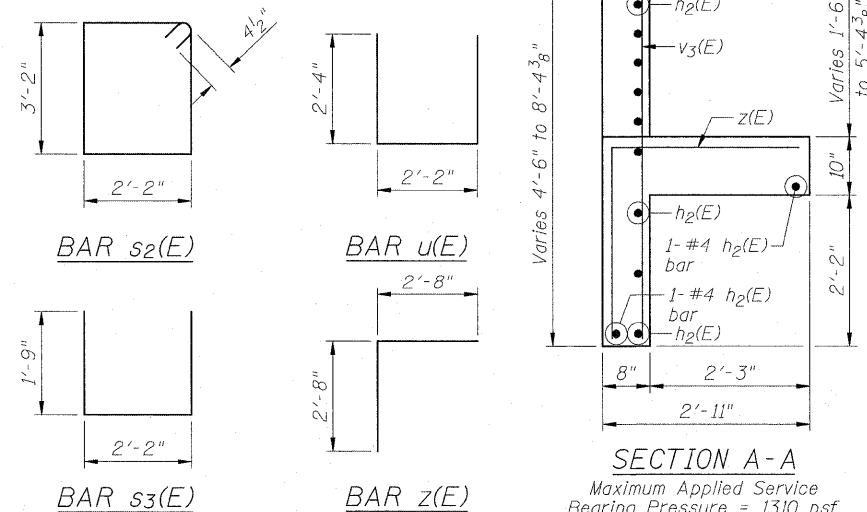
FIELD CUTTING DIAGRAM 1

Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



FIELD CUTTING DIAGRAM 2

Order v3(E) full length. Cut as shown and discard remainder.



SECTION A-A

Maximum Applied Service Bearing Pressure = 1310 psf

SEC. THRU ABUT.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	26	#7	13'-9"	
h2(E)	11	#4	9'-8"	
h3(E)	1	#4	10'-4"	
h4(E)	4	#4	16'-4"	
P1(E)	20	#7	31'-3"	
P3(E)	24	#5	30'-2"	
s2(E)	52	#5	11'-5"	
s3(E)	17	#4	5'-8"	
u(E)	8	#6	6'-10"	
v1(E)	116	#5	4'-4"	
v2(E)	11	#5	17'-7"	
v3(E)	11	#4	8'-0"	
z(E)	11	#4	5'-4"	
Concrete Structures		Cu. Yd.	25.9	
Reinforcement Bars, Epoxy Coated		Pound	4,480	
Furnishing Metal Shell Piles 14" x 0.250"		Foot	900	
Driving Piles		Foot	900	
Test Pile Metal Shells		Each	1	

For details of Bar Splicers, see Sheet 23 of 30.  
For details of piles, see Sheet 24 of 30.  
Bars indicated thus: 6x2-#7 etc. indicates 6 lines of bars with 2 lengths per line.

EASTBOUND EAST ABUTMENT  
INTERSTATE 70 OVER 1ST STREET  
FAI-70  
SECTION 82-1-2HB  
ST. CLAIR COUNTY  
STA. 192+97.45  
STRUCTURE NO. 082-0312 (EB)  
STRUCTURE NO. 082-0313 (WB)

**ZROKA** Engineering, P.C.  
4216 North Hermitage  
Chicago, IL 60613

FILE NAME = ...0820312-0820313-76C58-822-EBE	USER NAME = SAW	DESIGNED - LAS	REVISED -
PLOT SCALE = 1.0000' / IN.	DRAWN - SAW	CHECKED - LAS	REVISED - IN.
PLOT DATE = 2/25/2011	DATE = 3-18-11		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EASTBOUND EAST ABUTMENT

SCALE: NONE SHEET NO. 22 OF 30 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-2HB	ST. CLAIR	72	52
SN 082-0312 & 082-0313		CONTRACT NO. 76C50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**NOTES**

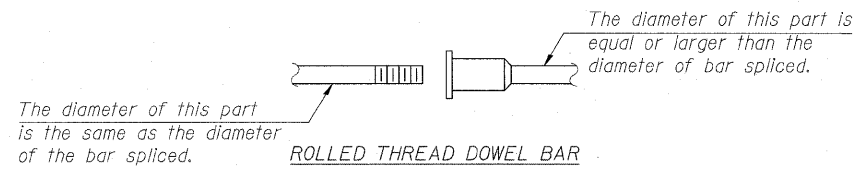
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.  
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.  
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) =  $1.25 \times f_y \times A_t$
- ② Minimum \*Pull-out Strength (Tension in kips) =  $0.66 \times f_y \times A_t$

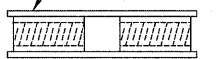
Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $A_t$  = Tensile stress area of lapped reinforcement bars.  
 \* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



\*\* ONE PIECE

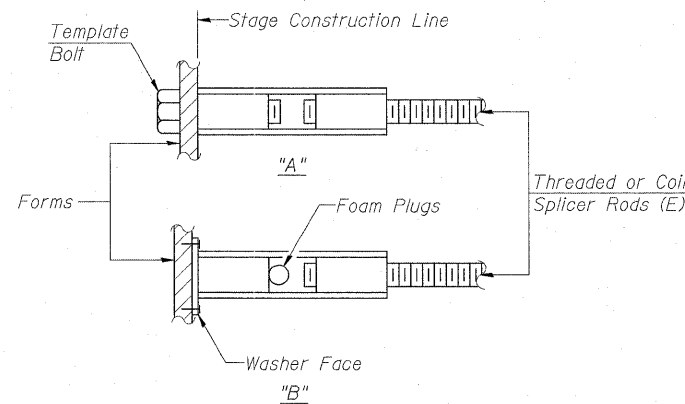
Wire Connector



WELDED SECTIONS

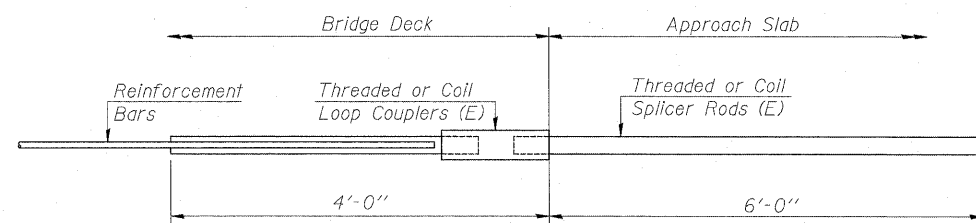
**BAR SPLICER ASSEMBLY ALTERNATIVES**

\*\*Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



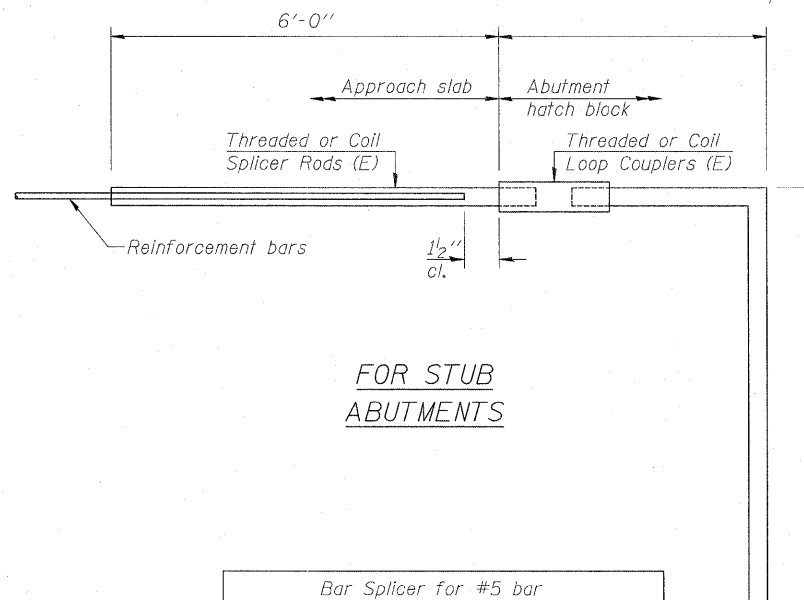
**INSTALLATION AND SETTING METHODS**

"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.



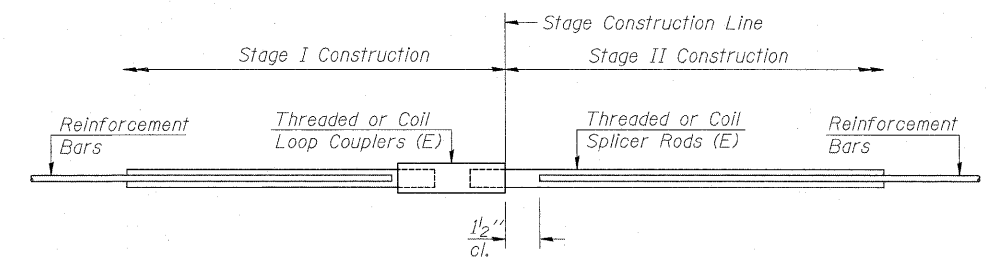
**FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 104 (WB), 108 (EB)



**FOR STUB ABUTMENTS**

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



**STANDARD**

Bar Size	No. Assemblies Required	Location

**BAR SPLICER ASSEMBLY DETAILS**  
**INTERSTATE 70 OVER 1ST STREET**  
**FAI-70**  
**SECTION 82-1-2HB**  
**ST. CLAIR COUNTY**  
**STA. 192+97.45**  
**STRUCTURE NO. 082-0312 (EB)**  
**STRUCTURE NO. 082-0313 (WB)**

**ZROKA** engineering  
 Zroka Engineering, P.C.  
 4216 North Hermitage  
 Chicago, IL 60613

BSD-1 10-1-08

FILE NAME = ... \DBTR1-0820312-0820313-76C50-023-Bar Splicers.dgn	USER NAME = SAW	DESIGNED - LAS	REVISED -
PLOT SCALE = 1,0000' / IN.	DRAWN - SAW	CHECKED - LAS	REVISED -
PLOT DATE = 2/25/2011	DATE - 3-18-11	REVISIONS	REVISED -

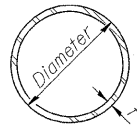
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY DETAILS**

SCALE: NONE SHEET NO. 23 OF 30 SHEETS STA. TO STA.

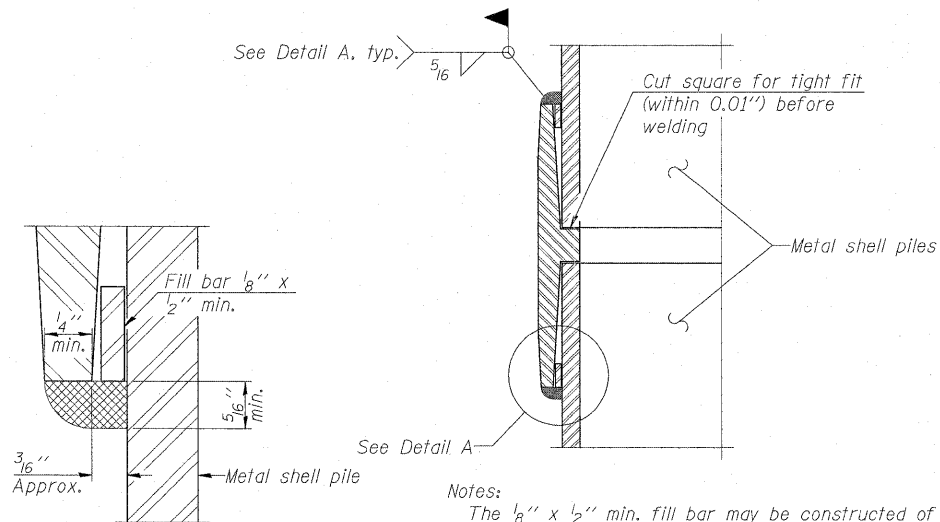
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-2HB	ST. CLAIR	72	53
SN 082-0312 & 082-0313		CONTRACT NO. 76C50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		





**METAL SHELL PILE TABLE**

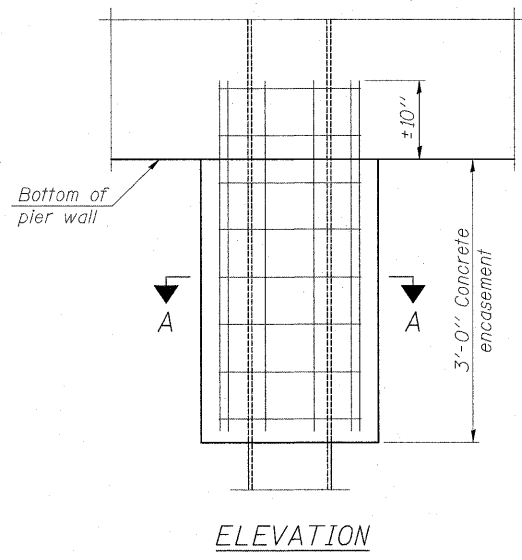
Designation and outside diameter	Wall thickness t	Weight per Foot (Lbs./ft.)	Inside volume (yd. <sup>3</sup> /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



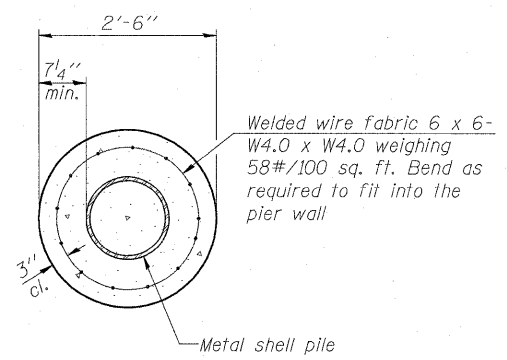
**DETAIL A**

Notes:  
 The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.  
 Pile segments shall be driven to solid contact with splicer before welding.

**WELDED COMMERCIAL SPLICE**



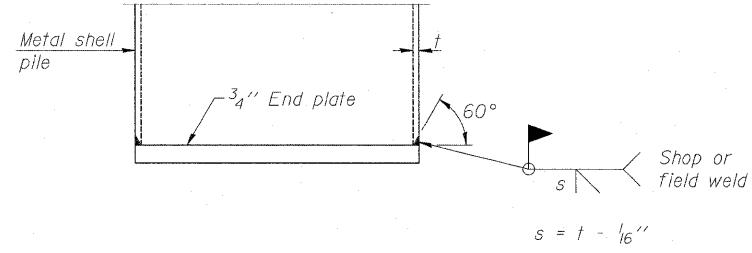
**ELEVATION**



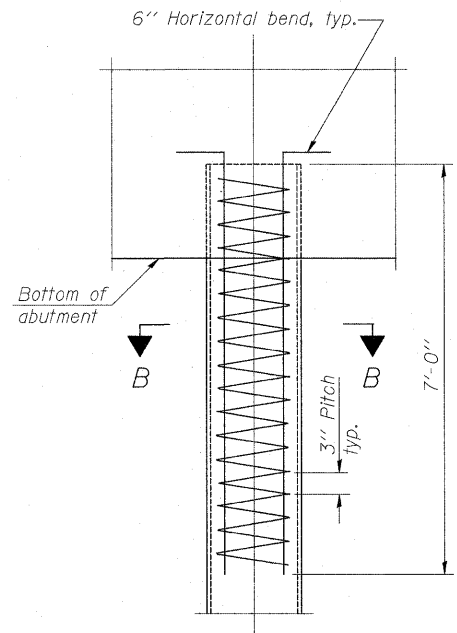
**SECTION A-A**

Note:  
 Forms for encasement may be omitted when soil conditions permit.

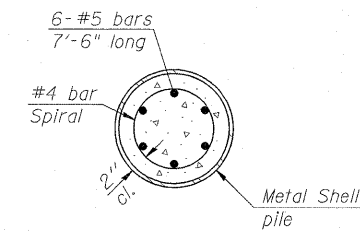
**CONCRETE ENCASMENT AT PIERS**



**END PLATE ATTACHMENT**

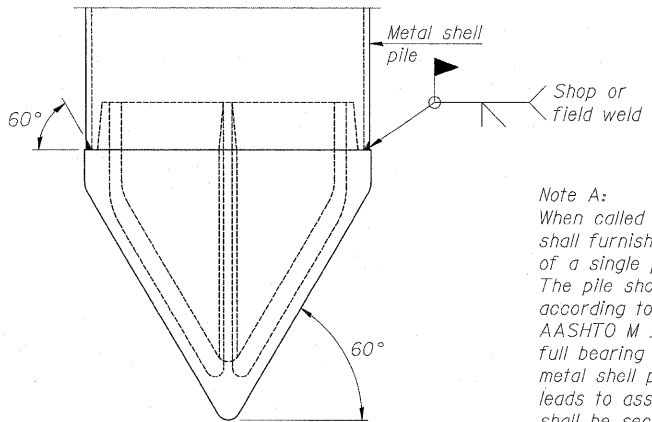


**ELEVATION**



**SECTION B-B**

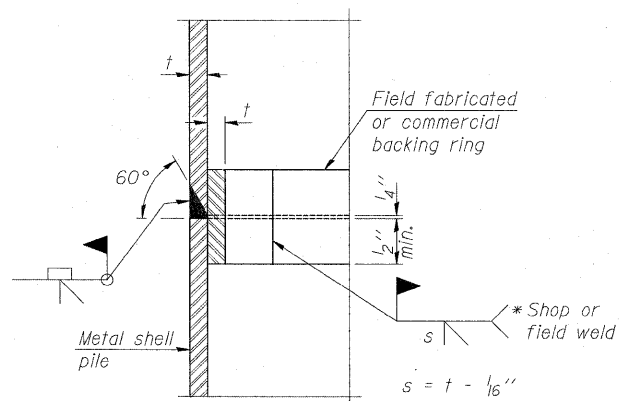
**METAL SHELL REINFORCEMENT AT ABUTMENTS**



**METAL SHELL PILE SHOE ATTACHMENT**

(See Note A)

Note A:  
 When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.



**COMPLETE PENETRATION WELD SPLICE**

\* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.

Note:  
 The metal shell piles shall be according to ASTM A 252 Grade 3.

**METAL SHELL PILE DETAILS**  
**INTERSTATE 70 OVER 1ST STREET**  
**FAI-70**  
**SECTION 82-1-2HB**  
**ST. CLAIR COUNTY**  
**STA. 192+97.45**  
**STRUCTURE NO. 082-0312 (EB)**  
**STRUCTURE NO. 082-0313 (WB)**

**ZROKA** Engineering, P.C.  
 4216 North Hermitage  
 Chicago, IL 60613

F-MS 11-1-09

FILE NAME = ...DSTR-0820312-0820313-76C50-024-MetalShellPiles.dgn	USER NAME = SAW	DESIGNED - LAS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>METAL SHELL PILE DETAILS</b>	F.A.P. RTE. 998	SECTION 82-1-2HB	COUNTY ST. CLAIR	TOTAL SHEETS 72	SHEET NO. 54
PLOT SCALE = 1.0000' / IN.	CHECKED - LAS	REVISIONS -	REVISIONS -			SN 082-0312 & 082-0313	CONTRACT NO. 76C50			
PLOT DATE = 2/25/2011	DATE - 3-18-11	REVISIONS -	REVISIONS -			FED. ROAD DIST. NO. ILLINOIS	FED. AID PROJECT			
SCALE: NONE		SHEET NO. 24 OF 30 SHEETS				STA. TO STA.				



SOIL BORING LOG

Page 1 of 4

Date 10/11/00

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY BEC

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W

COUNTY St. Clair DRILLING METHOD HSA and Mud Rotary DRILL RIG/ HAMMER EFFICIENCY Automatic Hammer

Table with columns for Depth (ft), Blows (6"), UCS (tsf), Moisture (%), and Soil Description. Includes data for various soil layers like Black clay, Fine grained sand, and Silty clay.

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)



SOIL BORING LOG

Page 2 of 4

Date 10/11/00

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY BEC

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W

COUNTY St. Clair DRILLING METHOD HSA and Mud Rotary DRILL RIG/ HAMMER EFFICIENCY Automatic Hammer

Table with columns for Depth (ft), Blows (6"), UCS (tsf), Moisture (%), and Soil Description. Includes data for various soil layers like Medium dense to dense brown, fine grained sand.

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)



SOIL BORING LOG

Page 3 of 4

Date 10/11/00

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY BEC

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W

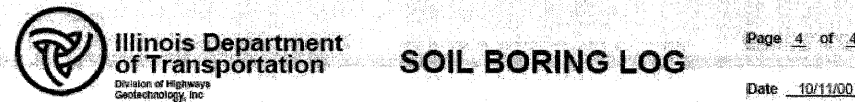
COUNTY St. Clair DRILLING METHOD HSA and Mud Rotary DRILL RIG/ HAMMER EFFICIENCY Automatic Hammer

Table with columns for Depth (ft), Blows (6"), UCS (tsf), Moisture (%), and Soil Description. Includes data for various soil layers like Loose to medium dense, brown, medium grained sand.

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)



BORING LOGS 1
INTERSTATE 70 OVER 1ST STREET
FAI-70
SECTION 82-1-2HB
ST. CLAIR COUNTY
STA. 192+97.45
STRUCTURE NO. 082-0312 (EB)
STRUCTURE NO. 082-0313 (WB)



**SOIL BORING LOG**

Page 4 of 4

Date 10/11/00

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY BEC  
 SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W  
 COUNTY St. Clair DRILLING METHOD HSA and Mud Rotary DRILL RIG/  
 HAMMER EFFICIENCY Automatic Hammer

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	After	Hrs.
082-0312	NA	B-1	192+68.01	1ft Right	419.6	Unknown	Unknown					
CRYSTALLINE LIMESTONE - See Rock Core Log (continued)												
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)  
 \* Rimac attempted, not measured due to sample disturbance BBS, from 137 (Rev. 8-99)  
 \*\* Not measured due to drilling methods used



**SOIL BORING LOG**

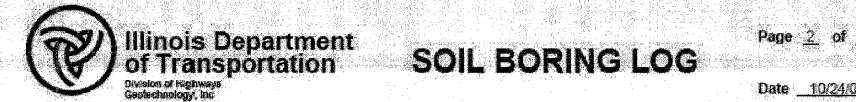
Page 1 of 4

Date 10/24/00

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY BEC  
 SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W  
 COUNTY St. Clair DRILLING METHOD HSA and Mud Rotary DRILL RIG/  
 HAMMER EFFICIENCY Automatic Hammer

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	After	Hrs.
082-0313	NA	B-2	193+43.13	104ft Left	418.3	Unknown	Unknown					
Soft, Black, CLAY with cinders, brick/concrete fragments and glass/ceramics (FILL)												
Medium dense, brown, FINE GRAINED SAND with laminations of black organic material @ 16'-18' and seams of silty loam and rounded quartz @ 21'-23' (continued)												
Stiff, brown, SILTY LOAM												
Soft, brown, SILTY CLAY with Fe staining												
Medium stiff, brown, SILTY LOAM												
Medium stiff, brown, SILTY CLAY												
Medium stiff to stiff, brown, SANDY LOAM Start mud rotary drilling @ 10'												
Stiff, brown, SILTY LOAM												
Medium dense, brown, FINE GRAINED SAND with laminations of black organic material @ 16'-18' and seams of silty loam and rounded quartz @ 21'-23' See Attached Gradation Test Results												
See Attached Gradation Test Results												

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)  
 \* Rimac attempted, not measured due to sample disturbance BBS, from 137 (Rev. 8-99)  
 \*\* Not measured due to drilling methods used



**SOIL BORING LOG**

Page 2 of 4

Date 10/24/00

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY BEC  
 SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W  
 COUNTY St. Clair DRILLING METHOD HSA and Mud Rotary DRILL RIG/  
 HAMMER EFFICIENCY Automatic Hammer

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	First Encounter	Upon Completion	After	Hrs.
082-0313	NA	B-2	193+43.13	104ft Left	418.3	Unknown	Unknown					
Loose to medium dense, brown, FINE GRAINED SAND with Fe staining and seams of gray, silty clay @ 26'-28', and laminations of black organic material @ 33'-35' and 43'-45' (continued)												
Medium dense to very dense, brown, FINE GRAINED SAND with laminations of black organic material @ 63'-65' and seams of highly plastic clay @ 63'-65' (continued)												
Medium dense to very dense, gray, FINE GRAINED SAND with silt @ 67'-72' and laminations of black organic material @ 79'-89'												

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)  
 \* Rimac attempted, not measured due to sample disturbance BBS, from 137 (Rev. 8-99)  
 \*\* Not measured due to drilling methods used



Zroka Engineering, P.C.  
 4216 North Hermitage  
 Chicago, IL 60613

BORING LOGS 2  
 INTERSTATE 70 OVER 1ST STREET  
 FAI-70  
 SECTION 82-1-2HB  
 ST. CLAIR COUNTY  
 STA. 192+97.45  
 STRUCTURE NO. 082-0312 (EB)  
 STRUCTURE NO. 082-0313 (WB)

FILE NAME =	USER NAME = SAU	DESIGNED - LAS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BORING LOGS 2</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
... \D9TRI-0820312-0820313-76C58-026-Borings\Logs2.dgn	DRAWN - SAW	REVISED -	998			82-1-2HB	ST. CLAIR	72	56	
PLOT SCALE = 1:2000' / IN.	CHECKED - LAS	REVISED -	SN 082-0312 & 082-0313			CONTRACT NO. 76C50				
PLOT DATE = 2/25/2011	DATE - 3-18-11	REVISED -	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Date 10/24/00

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY BEC
SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W
COUNTY St. Clair DRILLING METHOD HSA and Mud Rotary DRILL RIG/HAMMER EFFICIENCY Automatic Hammer

Table with columns for Depth (ft), Blows (16"), UCS (tsf), Moisture (%), and Soil Description. Includes data for Surface Water Elev., Stream Bed Elev., Groundwater Elev., and various soil layers like 'Dense to very dense, brown, MEDIUM to COARSE GRAINED SAND' and 'CRYSTALLINE LIMESTONE'.

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)
\* Rimac attempted, not measured due to sample disturbance BBS, from 137 (Rev. 8-99)
\*\* Not measured due to drilling methods used



SOIL BORING LOG

Date 10/24/00

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY BEC
SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W
COUNTY St. Clair DRILLING METHOD HSA and Mud Rotary DRILL RIG/HAMMER EFFICIENCY Automatic Hammer

Table with columns for Depth (ft), Blows (16"), UCS (tsf), Moisture (%), and Soil Description. Includes data for Surface Water Elev., Stream Bed Elev., Groundwater Elev., and soil layers like 'CRYSTALLINE LIMESTONE' and '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)
\* Rimac attempted, not measured due to sample disturbance BBS, from 137 (Rev. 8-99)
\*\* Not measured due to drilling methods used



SOIL BORING LOG

Date 2/17/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY R/W/LAH
SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W
COUNTY St. Clair DRILLING METHOD HSA with MR DRILL RIG/HAMMER EFFICIENCY CME 75 / 80%

Table with columns for Depth (ft), Blows (16"), UCS (tsf), Moisture (%), and Soil Description. Includes data for Surface Water Elev., Stream Bed Elev., Groundwater Elev., and soil layers like 'Black to gray, SILTY CLAY (FILL), with cinders' and 'Medium dense, brown, MEDIUM GRAINED SAND'.


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)
\* Rimac attempted, not measured due to sample disturbance BBS, from 137 (Rev. 8-99)
\*\* Not measured due to drilling methods used



BORING LOGS 3
INTERSTATE 70 OVER 1ST STREET
FAI-70
SECTION 82-1-2HB
ST. CLAIR COUNTY
STA. 192+97.45
STRUCTURE NO. 082-0312 (EB)
STRUCTURE NO. 082-0313 (WB)







**Illinois Department of Transportation**  
Division of Highways  
Geotechnology, Inc.

## SOIL BORING LOG

Page 1 of 4  
Date 2/13/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY RFW

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W


COUNTY St. Clair DRILLING METHOD HSA with MR DRILL RIG/  
HAMMER EFFICIENCY CME 75 / 90%

STRUCT. NO. 082-0312 D B U M  
P O C O  
T W S I  
H S Qu T

BORING NO. B-402 Surface Water Elev. Unknown ft  
Station 193+67.91 Stream Bed Elev. Unknown ft  
Offset 48ft Left Groundwater Elev.:  
First Encounter Not Measured ft  
Upon Completion Not Measured ft  
After Hrs. Not Measured ft

DEPTH (ft)	DIAMETER (in)	SOIL DESCRIPTION	DEPTH (ft)	DIAMETER (in)	SOIL DESCRIPTION
0		ASPHALT AND CRUSHED ROCK BASE (FILL) - 10 inches	0		
2	0.7	Medium stiff, brown, SILTY CLAY LOAM (FILL)	3		
5	B		5		
419.6		Stiff to soft, SILTY LOAM	5		
2			10		
3	1.6		13		
4	S		25		
2			7		
2			8		
2			13		
1			7		
1	0.2	Medium dense, brown, FINE GRAINED SAND, with silt	7		
1	B		8		
10			30		
2					
2	0.3	Medium dense to very dense, gray and brown, MEDIUM GRAINED SAND	2		
2	B		25		
422.6		Loose to medium dense, brown, FINE GRAINED SAND, with silt			
3			12		
4			21		
5			17		
15		Conducted grain size distribution	35		
8					
9					
11					
421.6		Medium dense, brown, MEDIUM GRAINED SAND			
6			8		
8			10		
10			13		
20		Conducted grain size distribution	40		

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)  
\* Rimac attempted, not measured due to sample disturbance  
\*\* Not measured due to drilling methods used  
BBS, from 137 (Rev. 8-99)



**Illinois Department of Transportation**  
Division of Highways  
Geotechnology, Inc.

## SOIL BORING LOG

Page 2 of 4  
Date 2/13/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY RFW

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W

COUNTY St. Clair DRILLING METHOD HSA with MR DRILL RIG/  
HAMMER EFFICIENCY CME 75 / 90%

STRUCT. NO. 082-0312 D B U M  
P O C O  
T W S I  
H S Qu T

BORING NO. B-402 Surface Water Elev. Unknown ft  
Station 193+67.91 Stream Bed Elev. Unknown ft  
Offset 48ft Left Groundwater Elev.:  
First Encounter Not Measured ft  
Upon Completion Not Measured ft  
After Hrs. Not Measured ft

DEPTH (ft)	DIAMETER (in)	SOIL DESCRIPTION	DEPTH (ft)	DIAMETER (in)	SOIL DESCRIPTION
0		Medium dense to very dense, gray and brown, MEDIUM GRAINED SAND (continued)	0		
357.6			357.6		
15		Dense to very dense, gray brown, FINE GRAINED SAND, trace silt	7		
20		Conducted grain size distribution	8		
25			23		
45					
5			30		
11			35		
17			40		
30					
11					
21					
31			75		
12					
13			8		
22			7		
30					

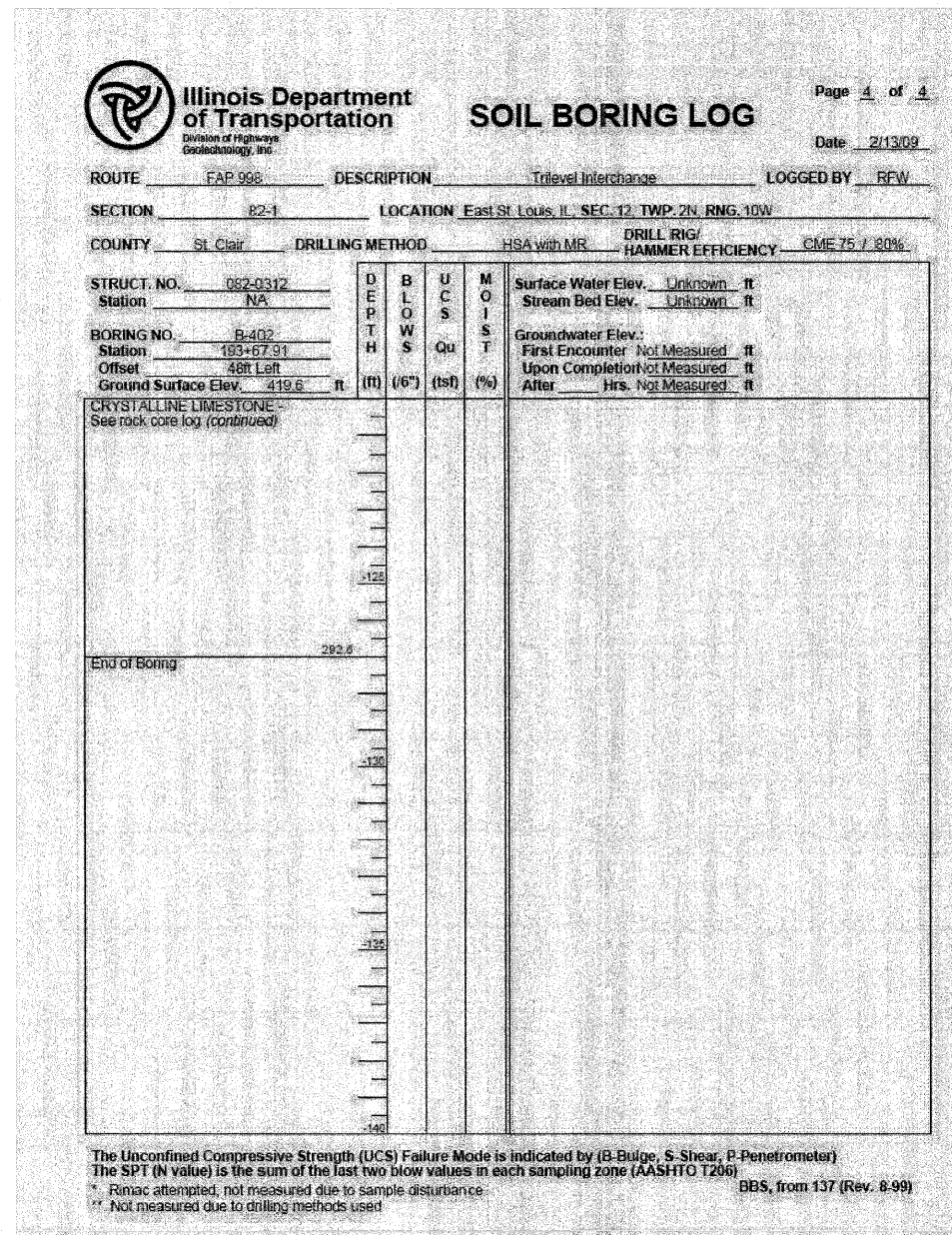
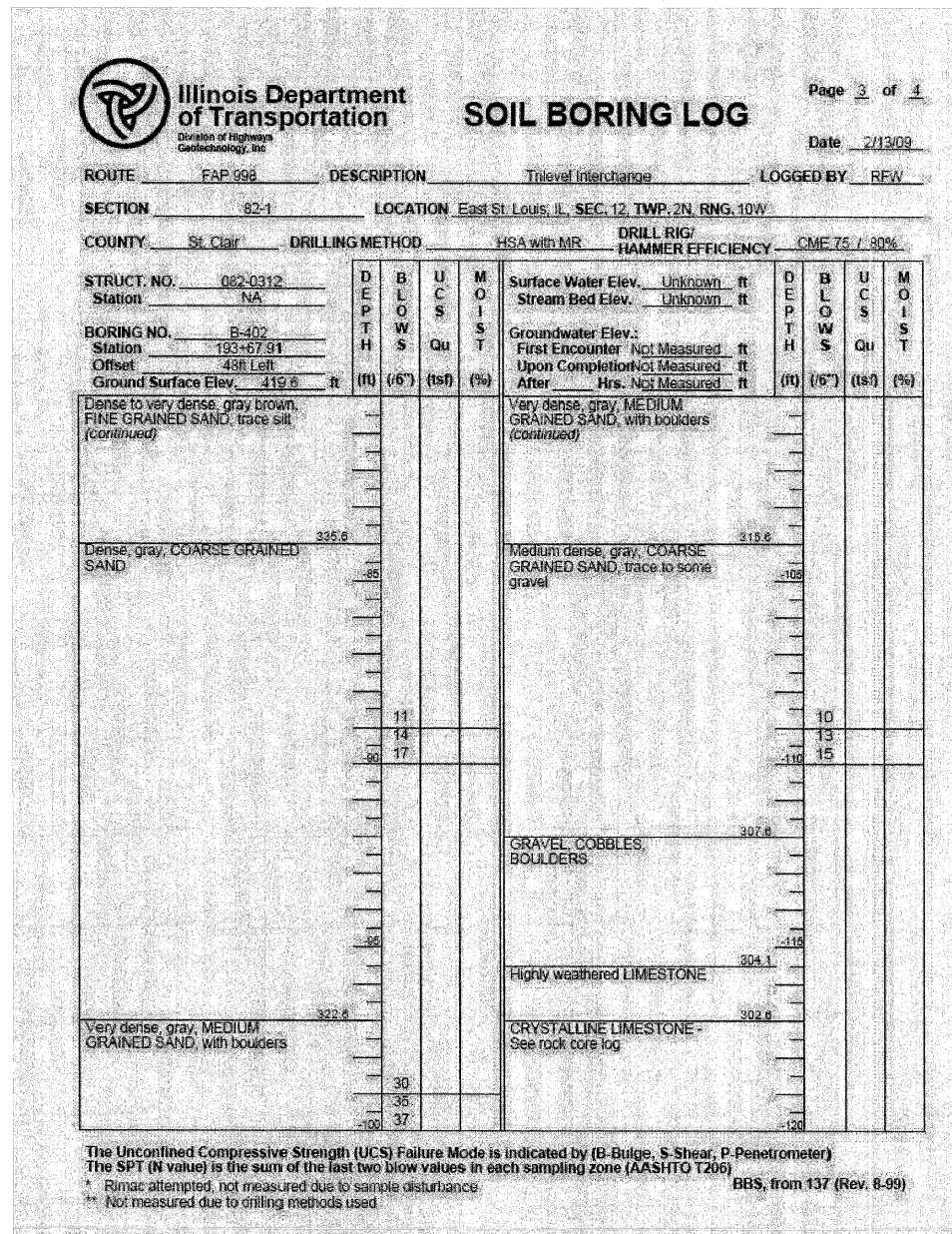
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
\* Rimac attempted, not measured due to sample disturbance  
\*\* Not measured due to drilling methods used  
BBS, from 137 (Rev. 8-99)

BORING LOGS 5  
INTERSTATE 70 OVER 1ST STREET  
FAI-70  
SECTION 82-1-2HB  
ST. CLAIR COUNTY  
STA. 192+97.45  
STRUCTURE NO. 082-0312 (EB)  
STRUCTURE NO. 082-0313 (WB)

**ZROKA** engineering  
Zroka Engineering, P.C.  
4216 North Hermitage  
Chicago, IL 60613

FILE NAME =	USER NAME = SAW	DESIGNED - LAS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>BORING LOGS 5</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...N08TRI-0820312-0820313-76C58-029-BoringLogs5.dgn		DRAWN - SAW	REVISED -			998	82-1-2HB	ST. CLAIR	72	59
PLOT SCALE = 1:2000' / IN.		CHECKED - LAS	REVISED -			SN 082-0312 & 082-0313		CONTRACT NO. 76C50		
PLOT DATE = 2/25/2011		DATE - 3-18-11	REVISED -			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
				SCALE: NONE	SHEET NO. 29 OF 30 SHEETS	STA.	TO STA.			

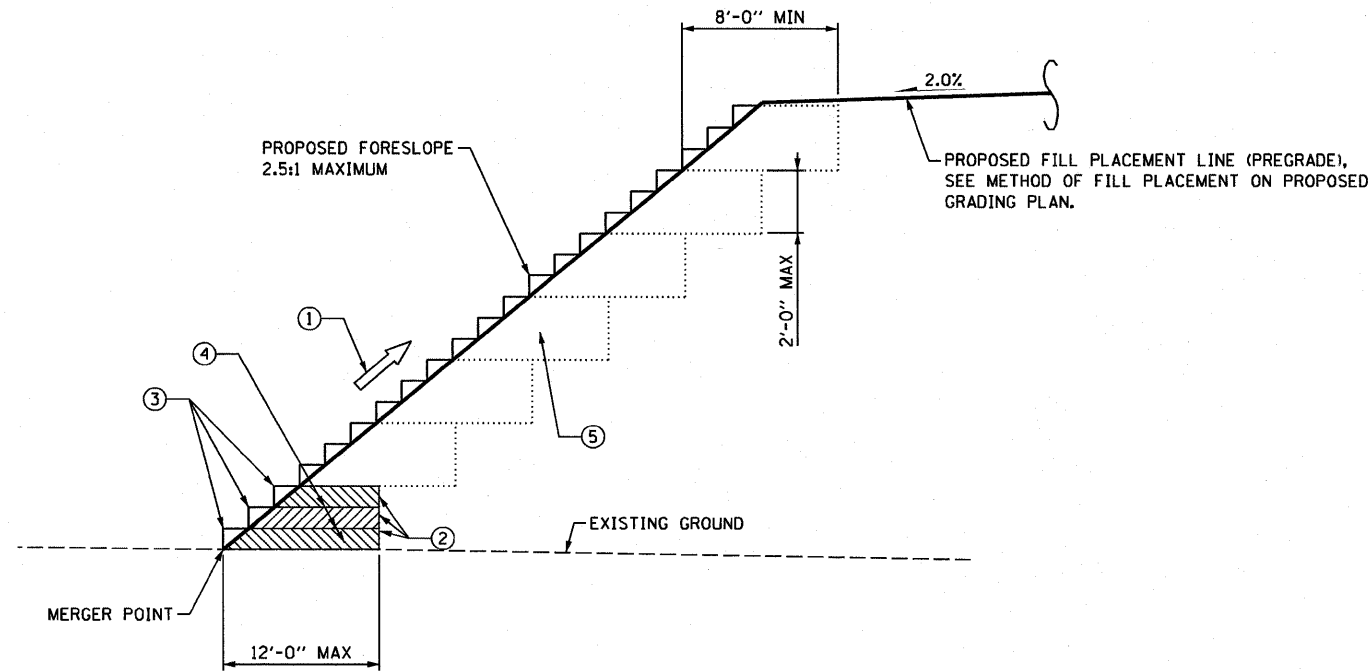




BORING LOGS 6  
INTERSTATE 70 OVER 1ST STREET  
FAI-70  
SECTION 82-1-2HB  
ST. CLAIR COUNTY  
STA. 192+97.45  
STRUCTURE NO. 082-0312 (EB)  
STRUCTURE NO. 082-0313 (WB)

**ZROKA** engineering  
Zroka Engineering, P.C.  
4216 North Hermitage  
Chicago, IL 60613

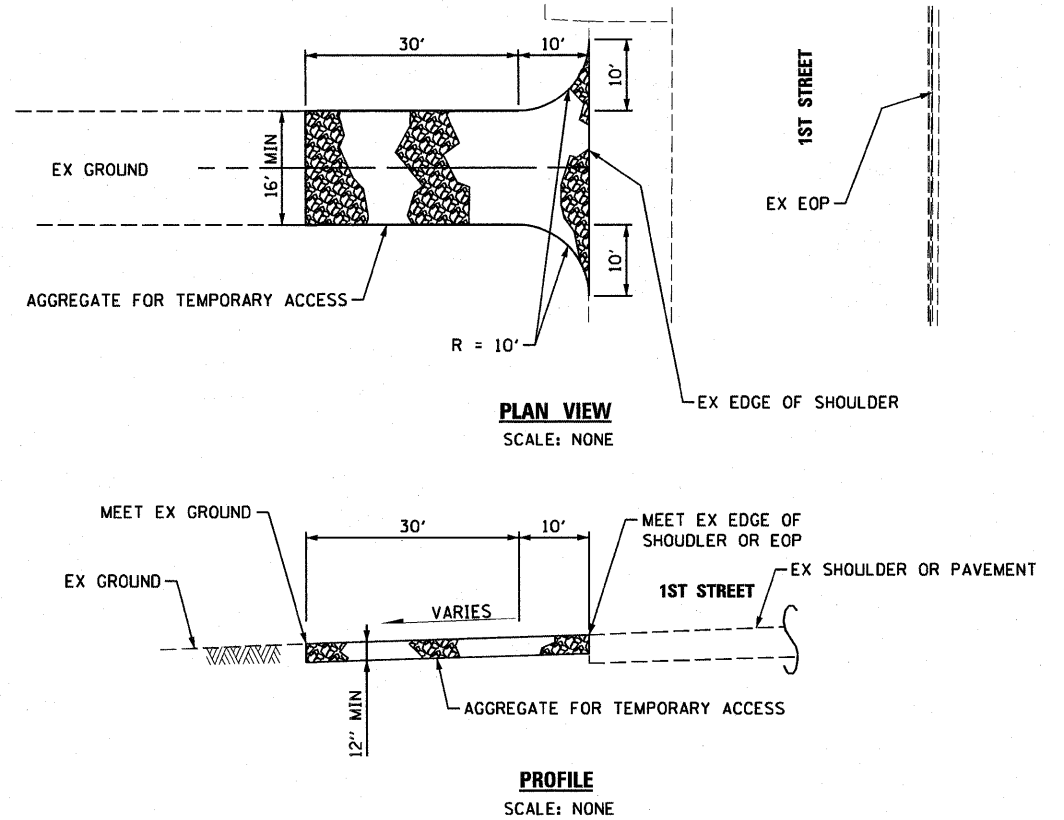
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PLOT SCALE = 1:8000 ' / IN.	CHECKED - LAS	REVISED -	SCALE: NONE			SHEET NO. 30 OF 30 SHEETS	STA. TO STA.	SN 082-0312 & 082-0313 CONTRACT NO. 76C50			
PLOT DATE = 2/25/2011	DATE - 3-18-11	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**TYPICAL BENCHING DETAIL FOR EMBANKMENT**  
SCALE: NONE

**NOTES:**

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② BENCH CUT FINAL SLOPE TYPICAL FOR EACH STEP.
- ③ TRIM TO FINAL SLOPE.
- ④ EQUAL 8-INCH LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑤ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑥ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5'.
- ⑦ EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.



**TYPICAL STABILIZED CONSTRUCTION ENTRANCE DETAIL**  
**(AGGREGATE FOR TEMPORARY ACCESS)**

**NOTES:**

1. STONE
  - A. AGGREGATE FOR TEMPORARY ACCESS
  - B. LENGTH - AS REQUIRED, BUT NOT MORE THAN 30 FEET.
  - C. THICKNESS - 12" MINIMUM
2. WIDTH - 16 FOOT MINIMUM FOR ONE WAY TRAFFIC; 24 FOOT MINIMUM FOR TWO WAY TRAFFIC; BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.
3. MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY SHALL BE REMOVED IMMEDIATELY. THIS WILL BE INCLUDED IN THE COST OF THE CONTRACT.
4. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER HEAVY USE AND EACH RAINFALL EVENT.

STATION	EARTH EXCAVATION	AGGREGATE FOR TEMPORARY ACCESS
	CU YD	TON
CL 1ST STREET		
6+61.79 RT	24	64
7+07.76 LT	24	63
9+53.98 LT	24	64
9+60.08 RT	24	64
TOTALS	96 *	255 **

\* TOTALS TO BE ADDED TO EARTHWORK SCHEDULE  
 \*\* ADDITIONAL ALLOWANCE OF 25% HAS BEEN ADDED TO THE AGGREGATE FOR TEMPORARY ACCESS QUANTITY

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 PLOT DATE = #DATE#

DESIGNED OP  
 DRAWN PHP/OP  
 CHECKED DBM  
 DATE 03-18-11

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

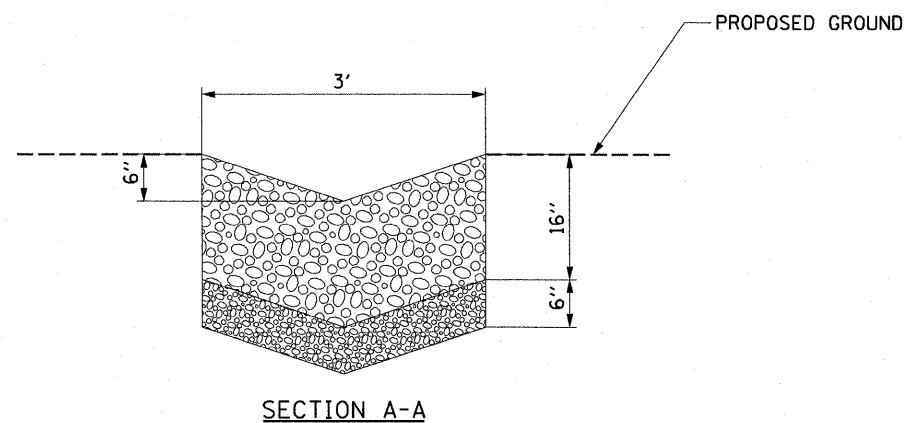
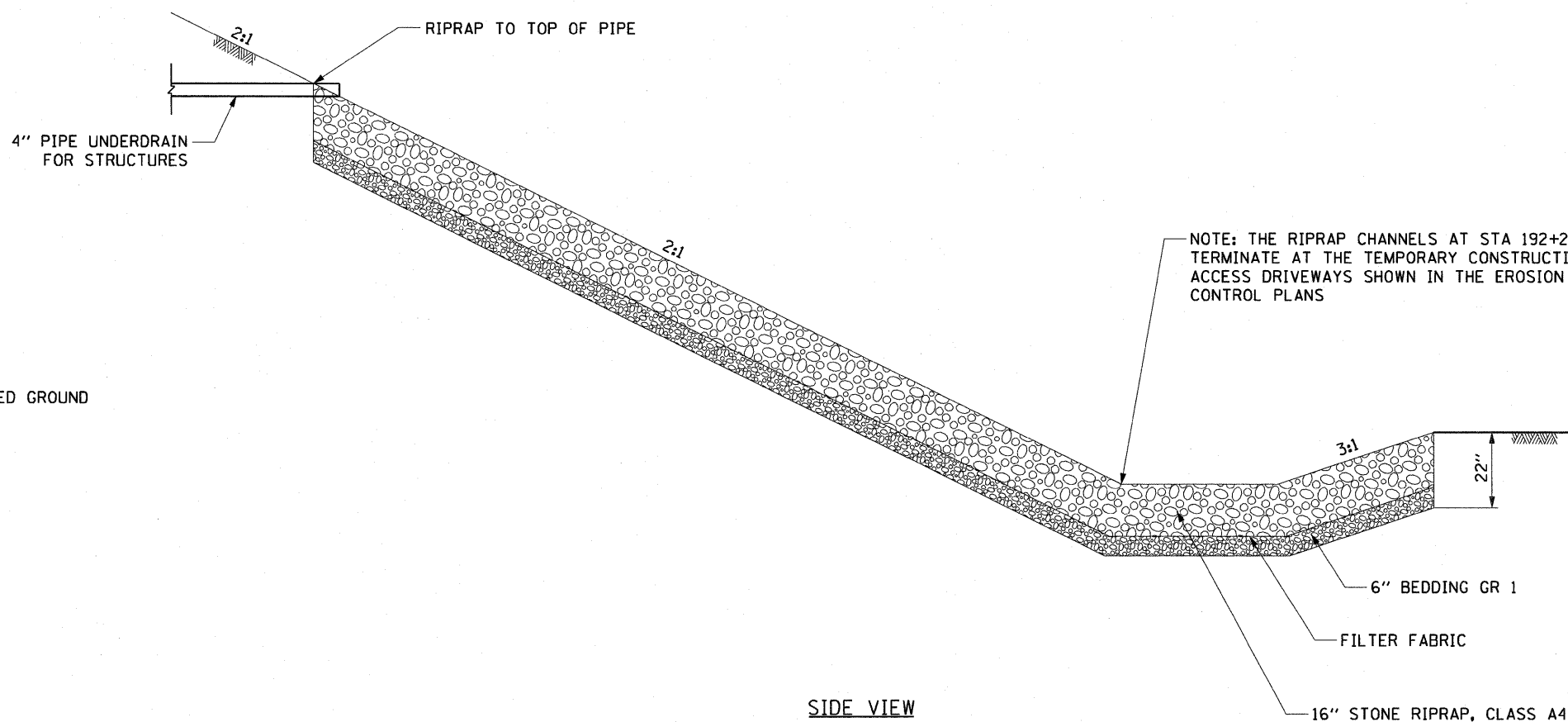
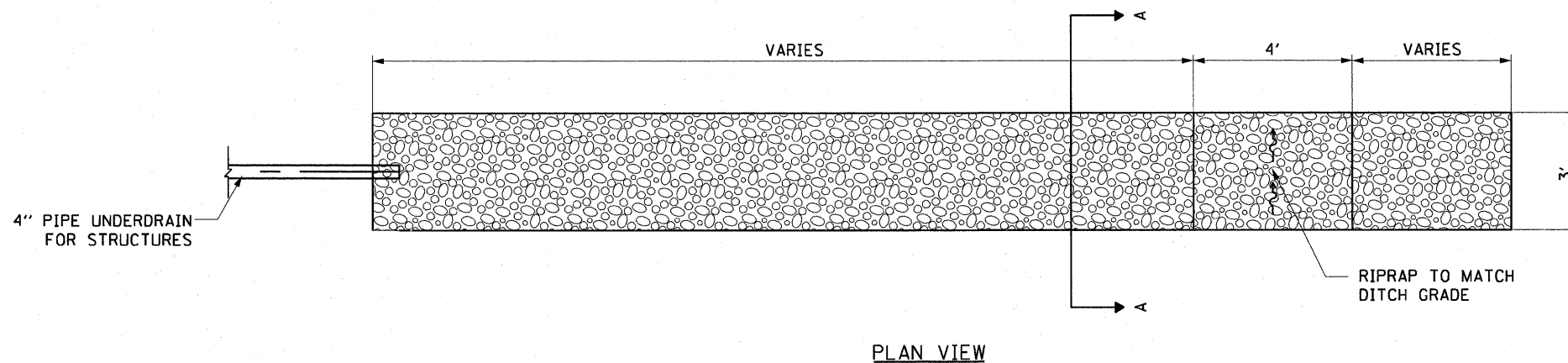
ROADWAY DETAILS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-2HB	ST. CLAIR	72	61
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

STATION	OFFSET	STRUCTURE TYPE	STONE RIPRAP, CLASS A4 SQ YD	FILTER FABRIC SQ YD
CL I-70				
192+29.00	65.71 LT	4" PUD	15	15
192+29.00	66.47 RT	4" PUD	18	18
193+87.33	65.03 LT	4" PUD	28	28
193+87.33	66.47 RT	4" PUD	35	35
TOTALS			96	96

NOTE: STATION AND OFFSET ARE PROVIDED FOR THE UPSTREAM CENTERLINE OF THE RIPRAP CHANNEL



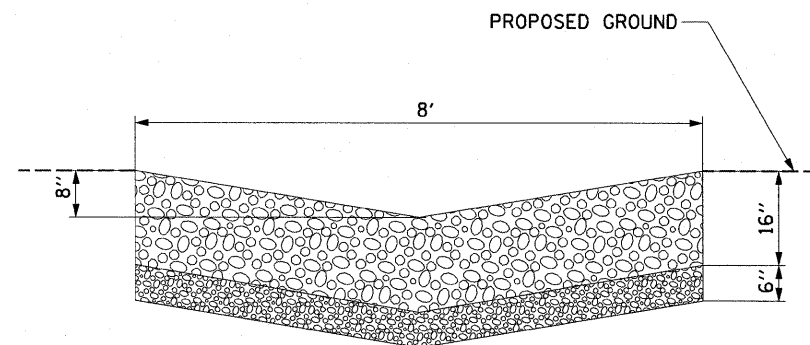
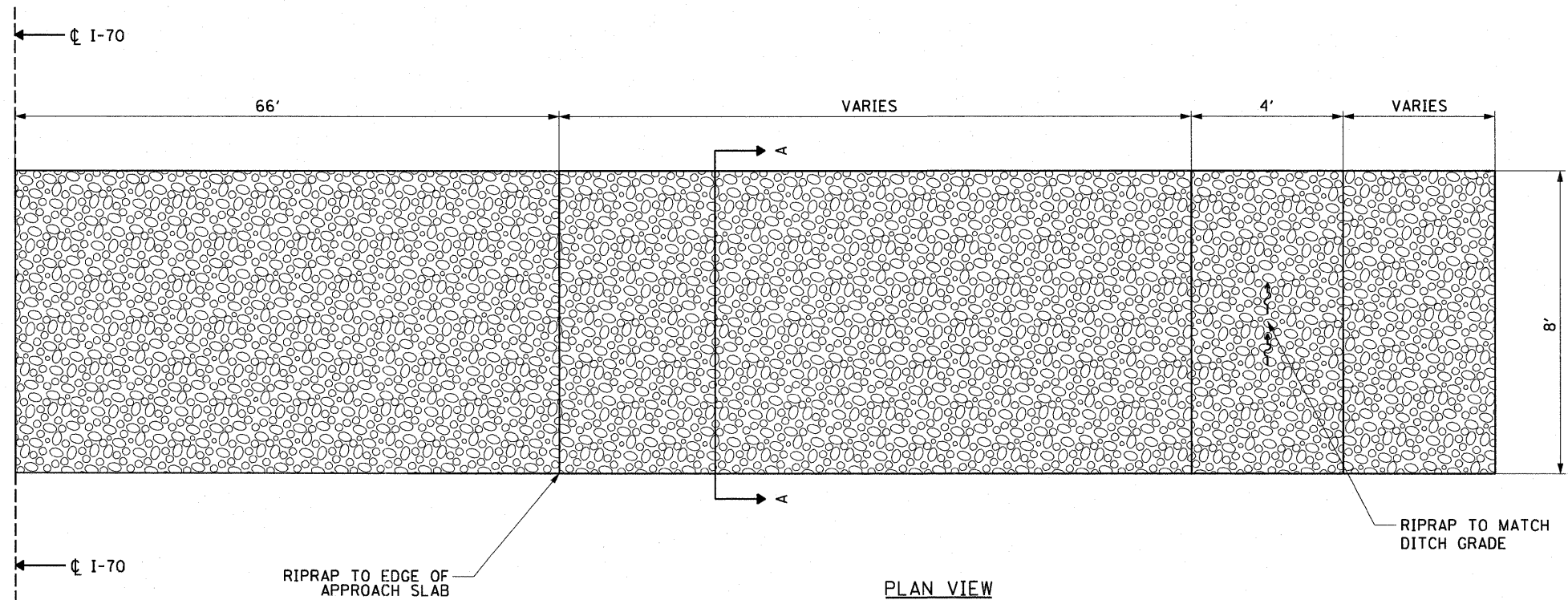
**PIPE UNDERDRAIN OUTLET  
STONE DUMPED RIPRAP PROTECTION DETAIL**  
FOR PIPE UNDERDRAINS PERPENDICULAR TO  
DITCH FLOW

CL I-70: WEST ABUTMENT STA 192+29.00  
EAST ABUTMENT STA 193+87.33

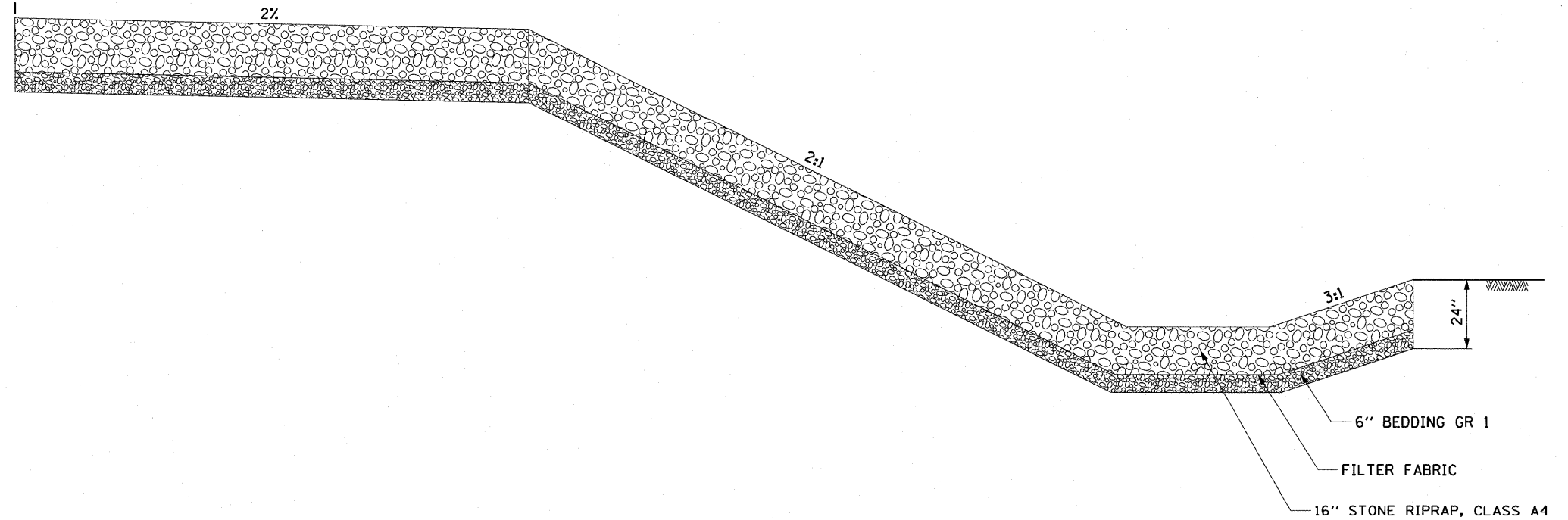
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PLOT SCALE = 2.0000' / in.	CHECKED DBM	REVISED -	SCALE: NONE			SHEET NO. 1 OF 3 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			
PLOT DATE = \$DATE\$	DATE 03-18-11	REVISED -									

STATION	OFFSET	STONE RIPRAP, CLASS A4	FILTER FABRIC
		SQ YD	SQ YD
☉ I-70			
191+95.00	0' LT	126	126
191+95.00	0' RT	130	130
TOTALS		256	256

NOTE: STATION AND OFFSET ARE PROVIDED FOR THE UPSTREAM CENTERLINE OF THE RIPRAP CHANNEL



SECTION A-A



SIDE VIEW

**BRIDGE DECK DRAINAGE  
STONE DUMPED RIPRAP PROTECTION DETAIL**

FOR I-70 BRIDGE OVER 1ST STREET

☉ I-70: STA 191+95.00

FILE NAME = DBT-r-76C50-sht-details.03.dgn

USER NAME = searsb

DESIGNED KLK

REVISED -

DRAWN KLK

REVISED -

CHECKED DBM

REVISED -

DATE 03-18-11

REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE DETAIL 2**

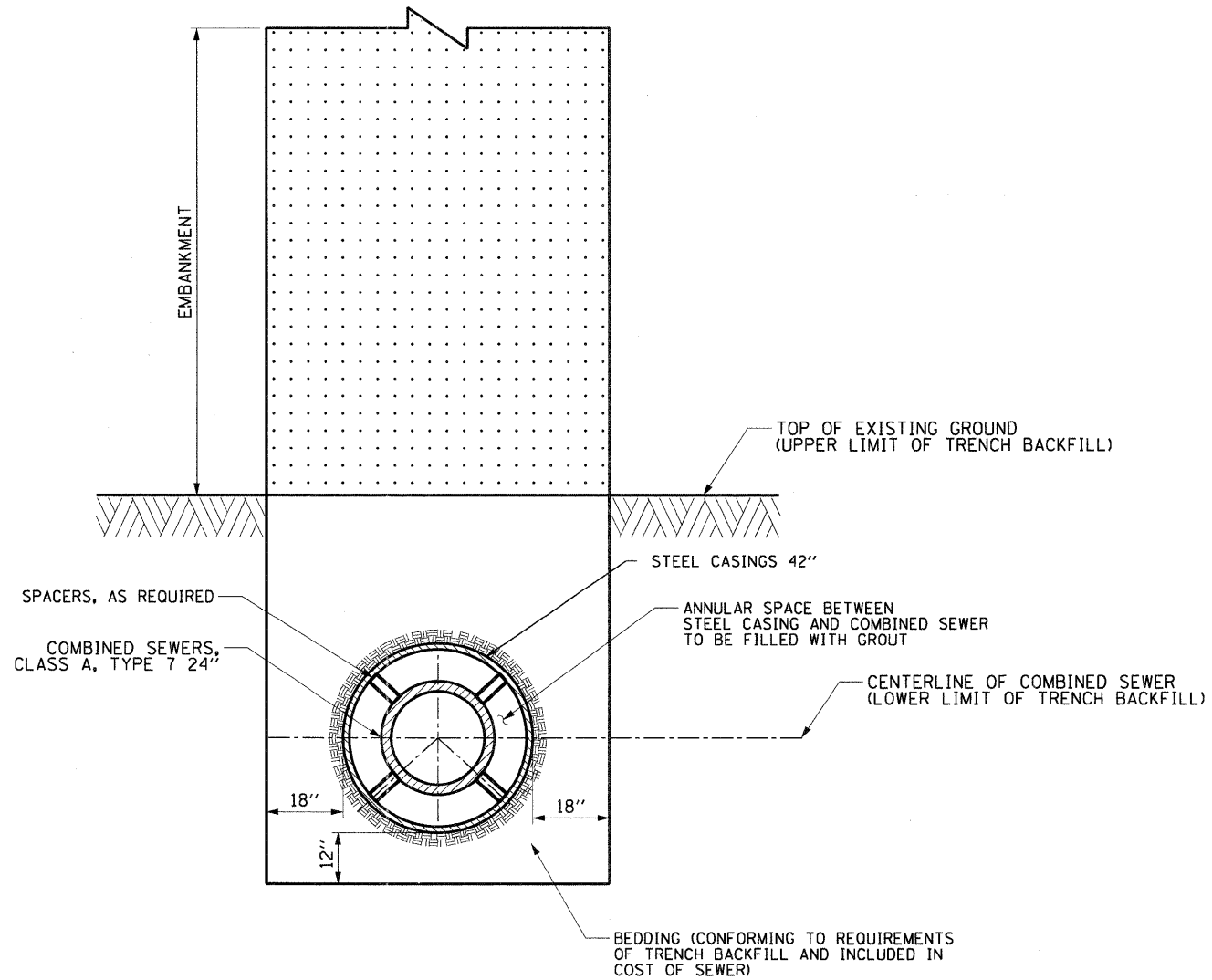
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-2HB	ST. CLAIR	72	63
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 76C50

P 1-06 DRAINAGE DETAIL  
COMBINED SEWERS, CLASS A, TYPE 3 24" WITH STEEL CASINGS 42"  
 FOR I-70 BRIDGE OVER 1ST STREET

☉ 70E55N: STA 51+54, O/S 189.5' LT - STA 51+81, O/S 237' RT

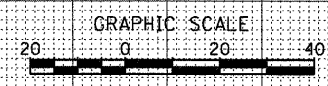
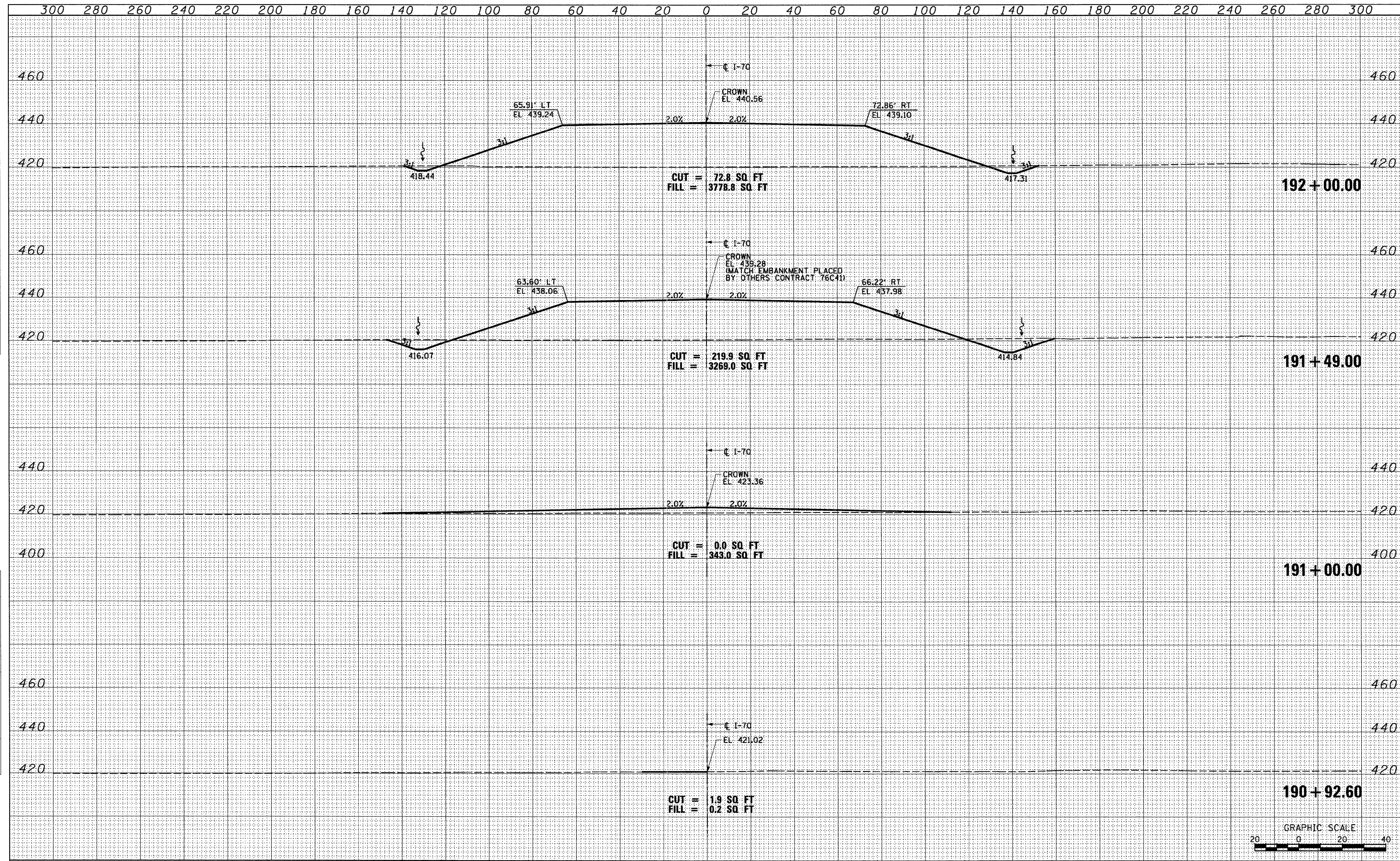


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	PLOT DATE = 4/6/2011	DATE 04-06-11	REVISED -			CONTRACT NO. 76C50					



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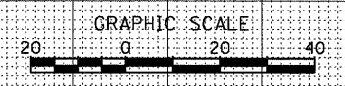
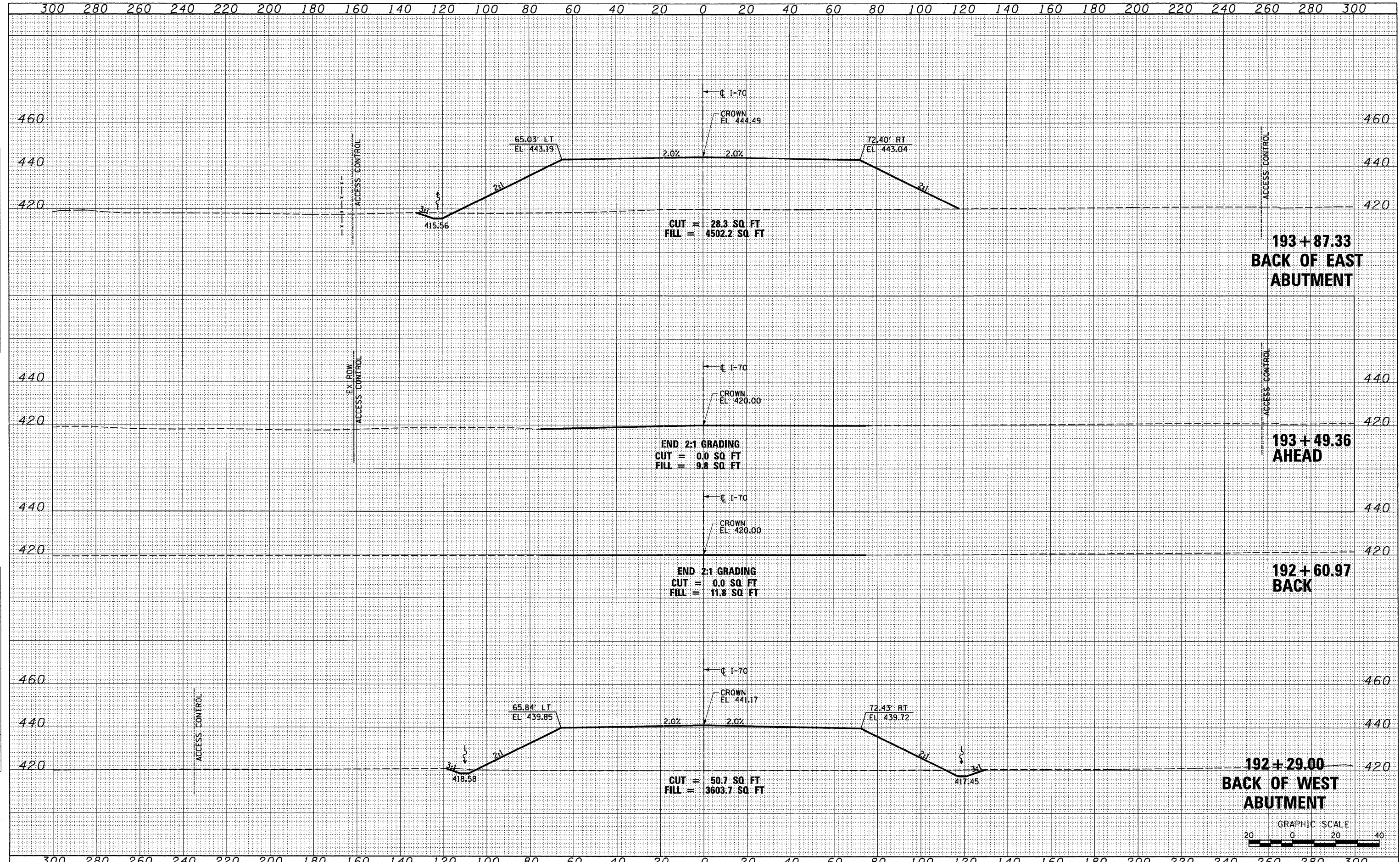


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	-76C50-sht.XS_170.dgn	DRAWN OP	REVISED -		SCALE: H: 20 V: 20	SHEET NO. 1 OF 5 SHEETS	998	82-1-2HB	ST. CLAIR	72	64
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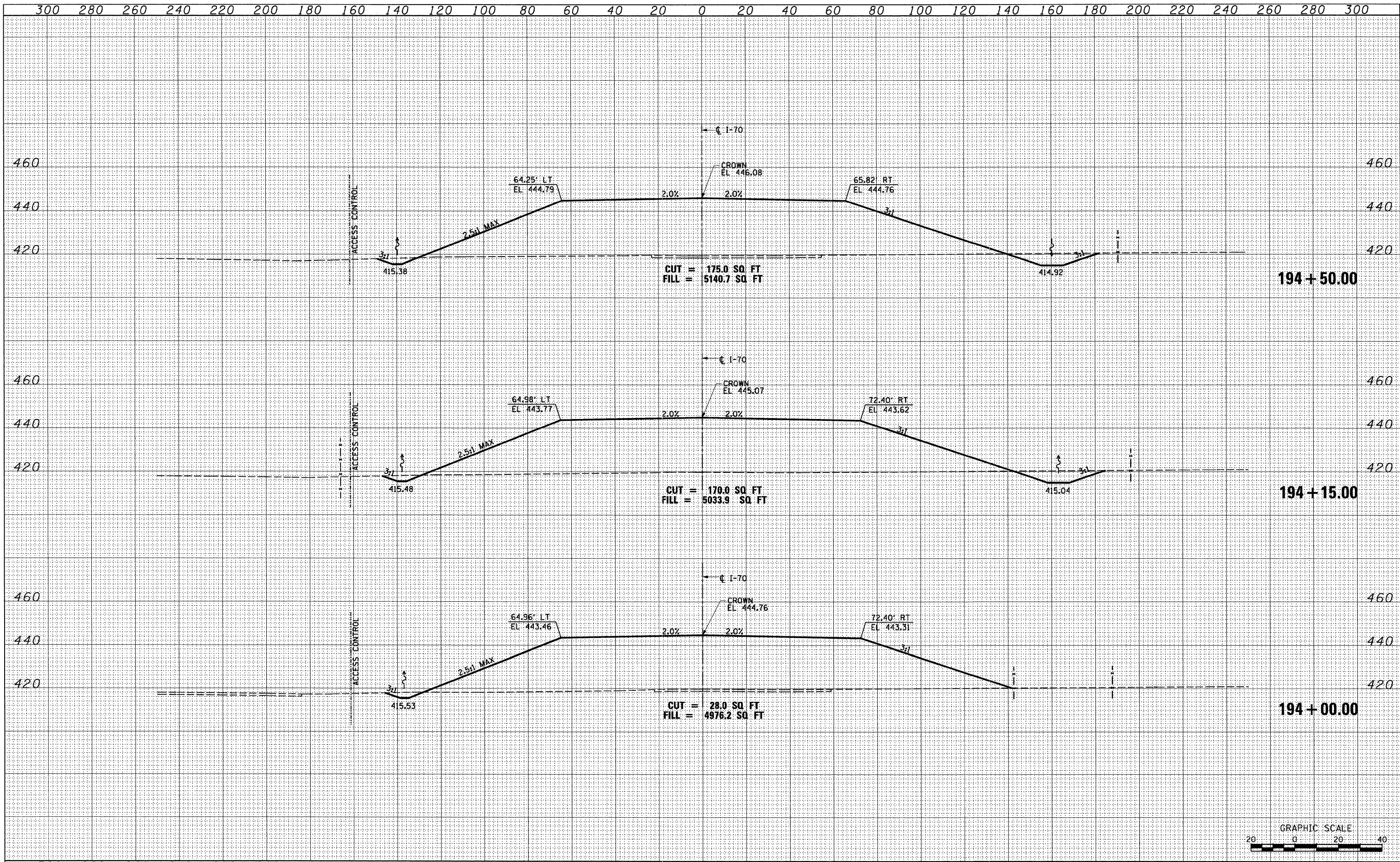


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SCALE: H: 20 V: 20 SHEET NO. 2 OF 5 SHEETS					STA. 192+00.00 TO STA. 193+87.33					



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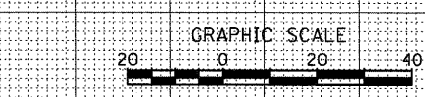
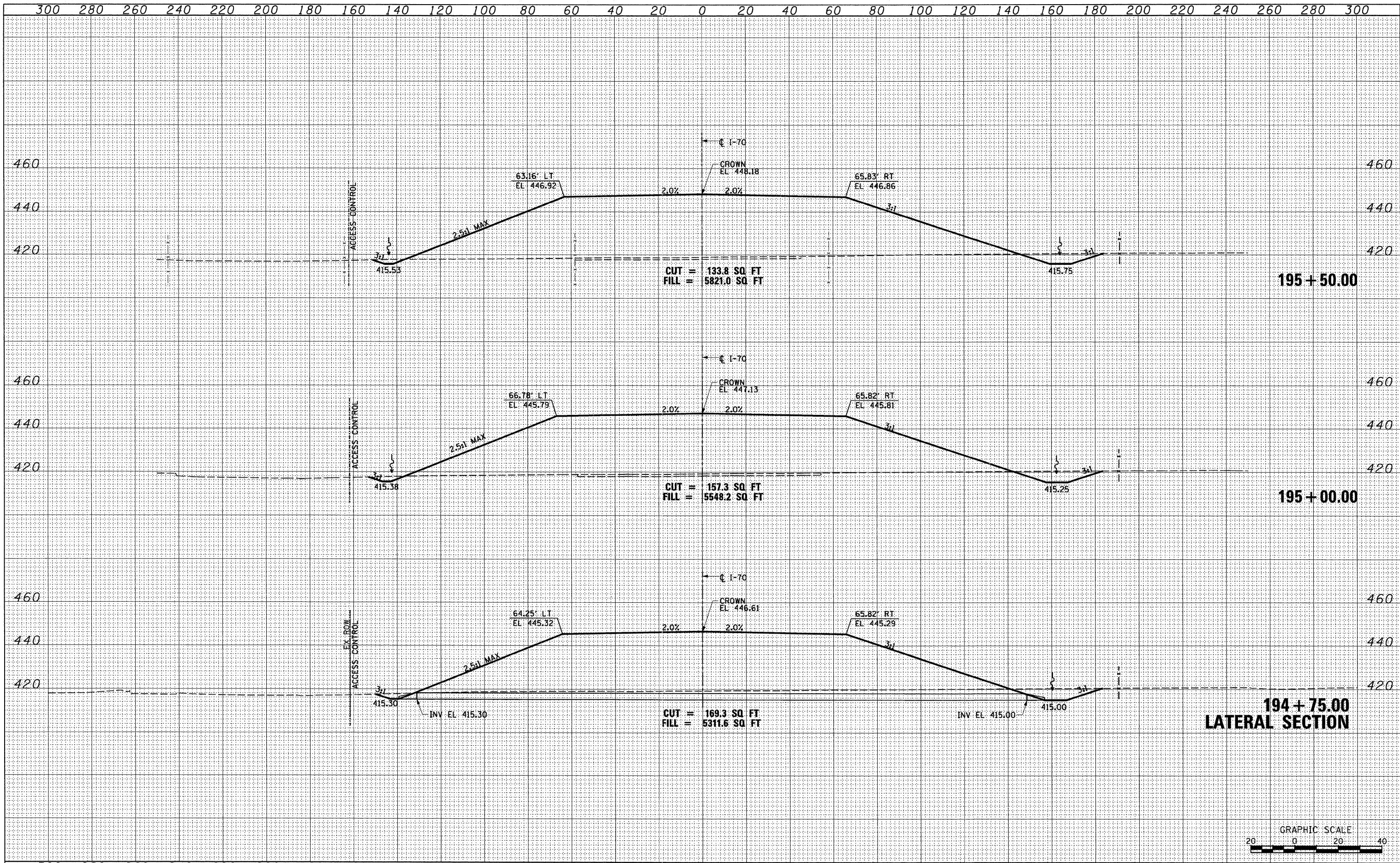
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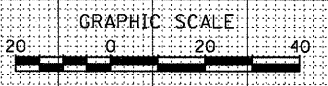
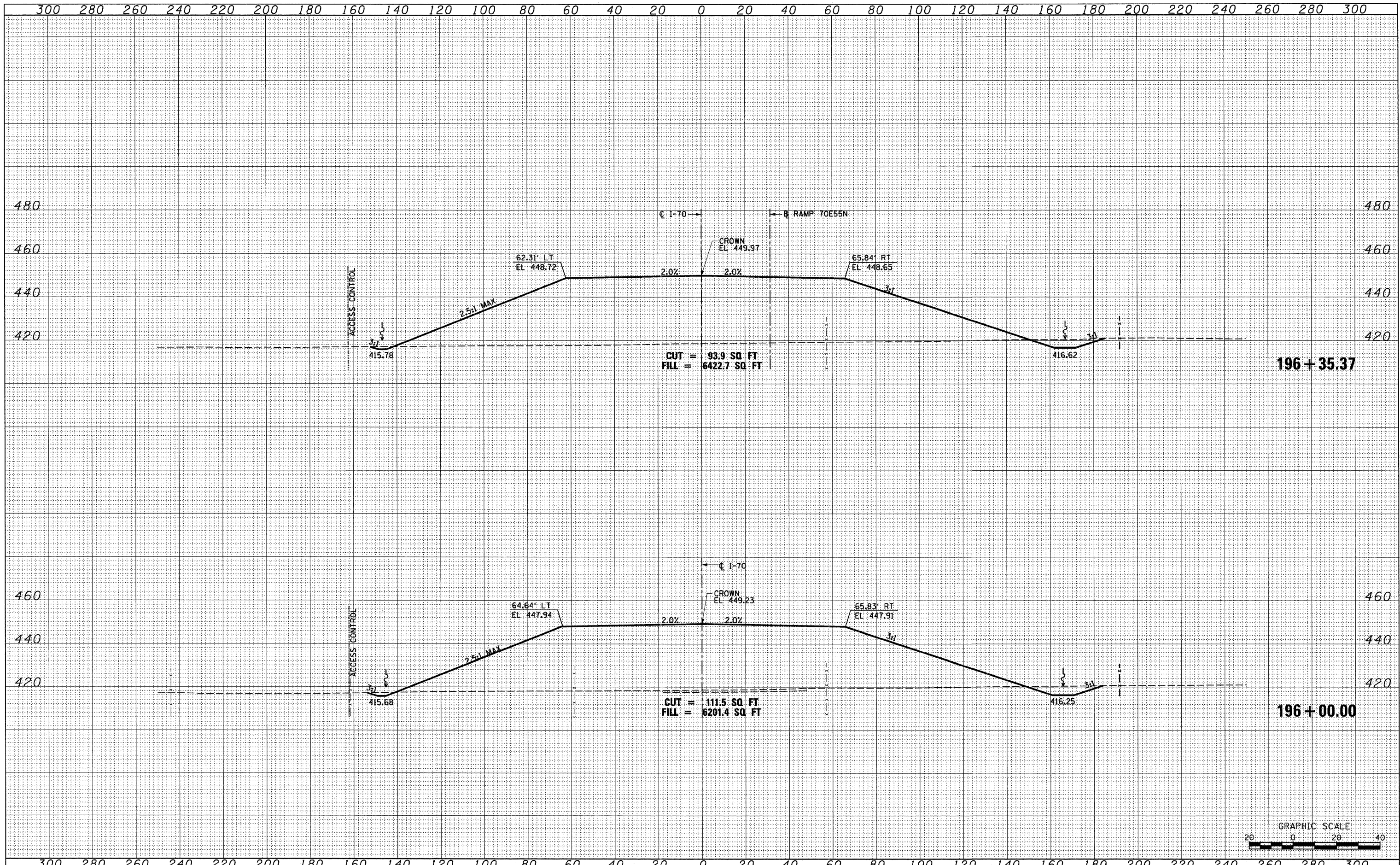
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SCALE: H: 20 V: 20 SHEET NO. 4 OF 5 SHEETS STA. 195+00.00 TO STA. 196+00.00



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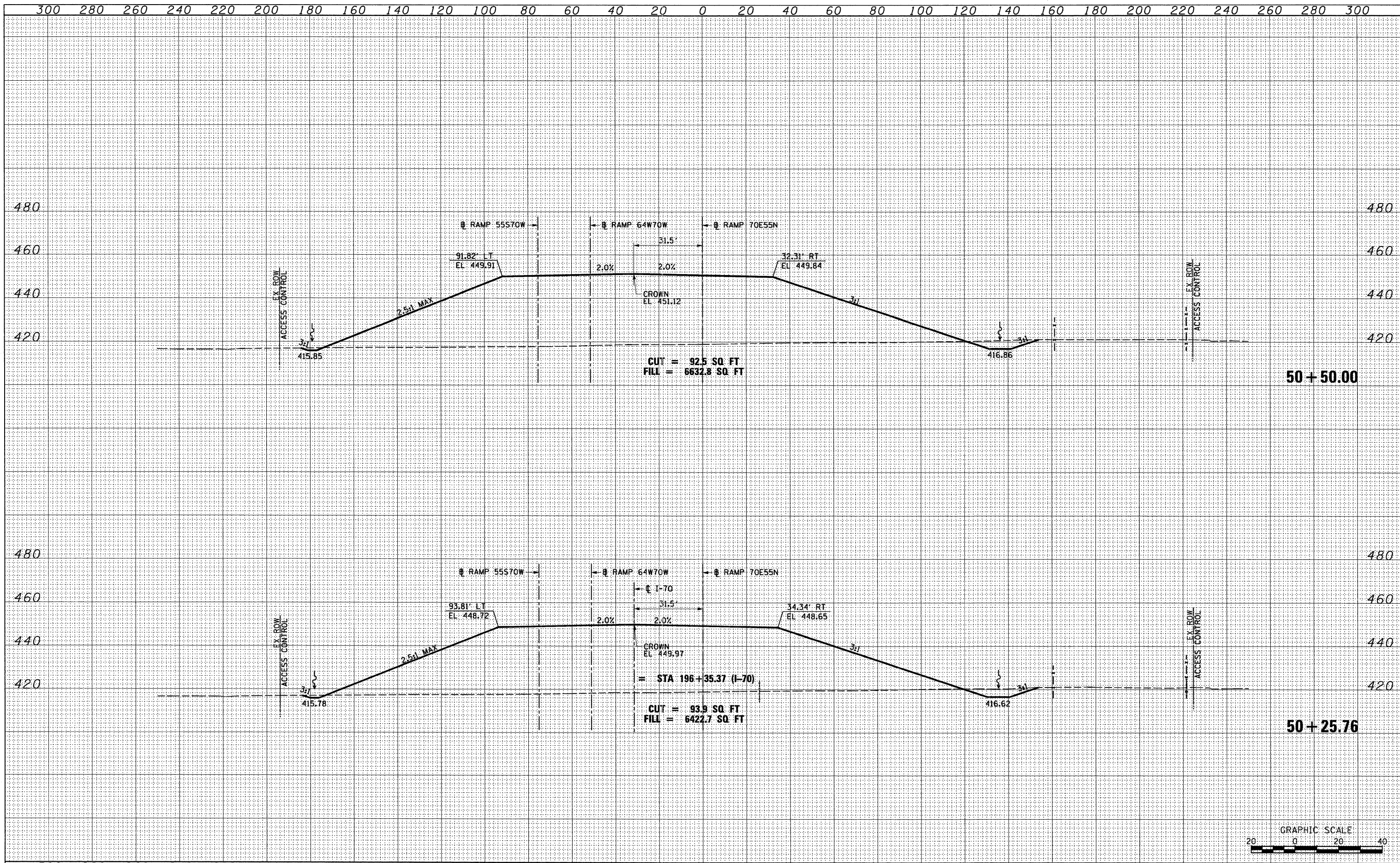
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		CHECKED DBM	REVISED -			CONTRACT NO. 76C50					
		DATE 2-12-10	REVISED -			FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					

SCALE: H: 20 V: 20 SHEET NO. 5 OF 5 SHEETS STA. 196+35.37 TO STA. 196+35.37



FINAL SURVEY	DATE
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ORIGINAL SURVEY	DATE
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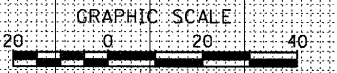
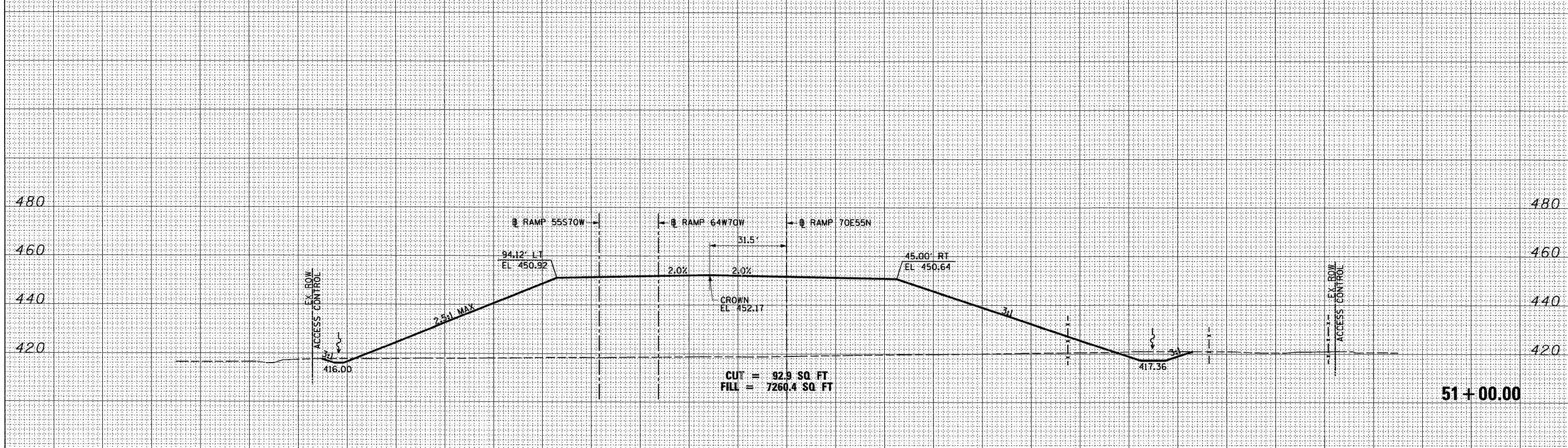
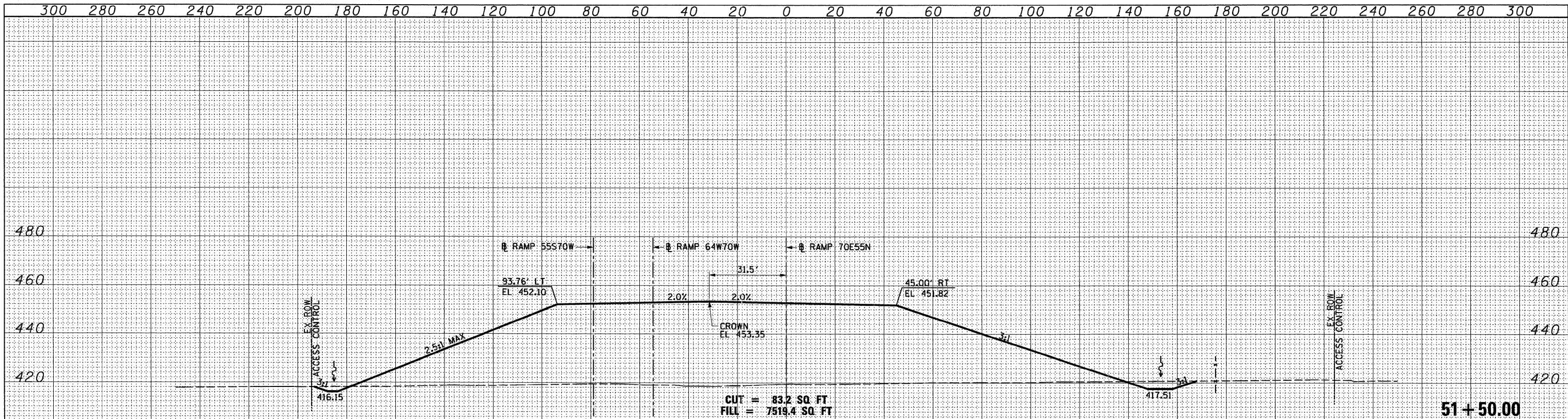
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		DATE 2-12-10	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SCALE: H: 20 V: 20 SHEET NO. 1 OF 4 SHEETS STA. 50+25.76 TO STA. 50+50.00



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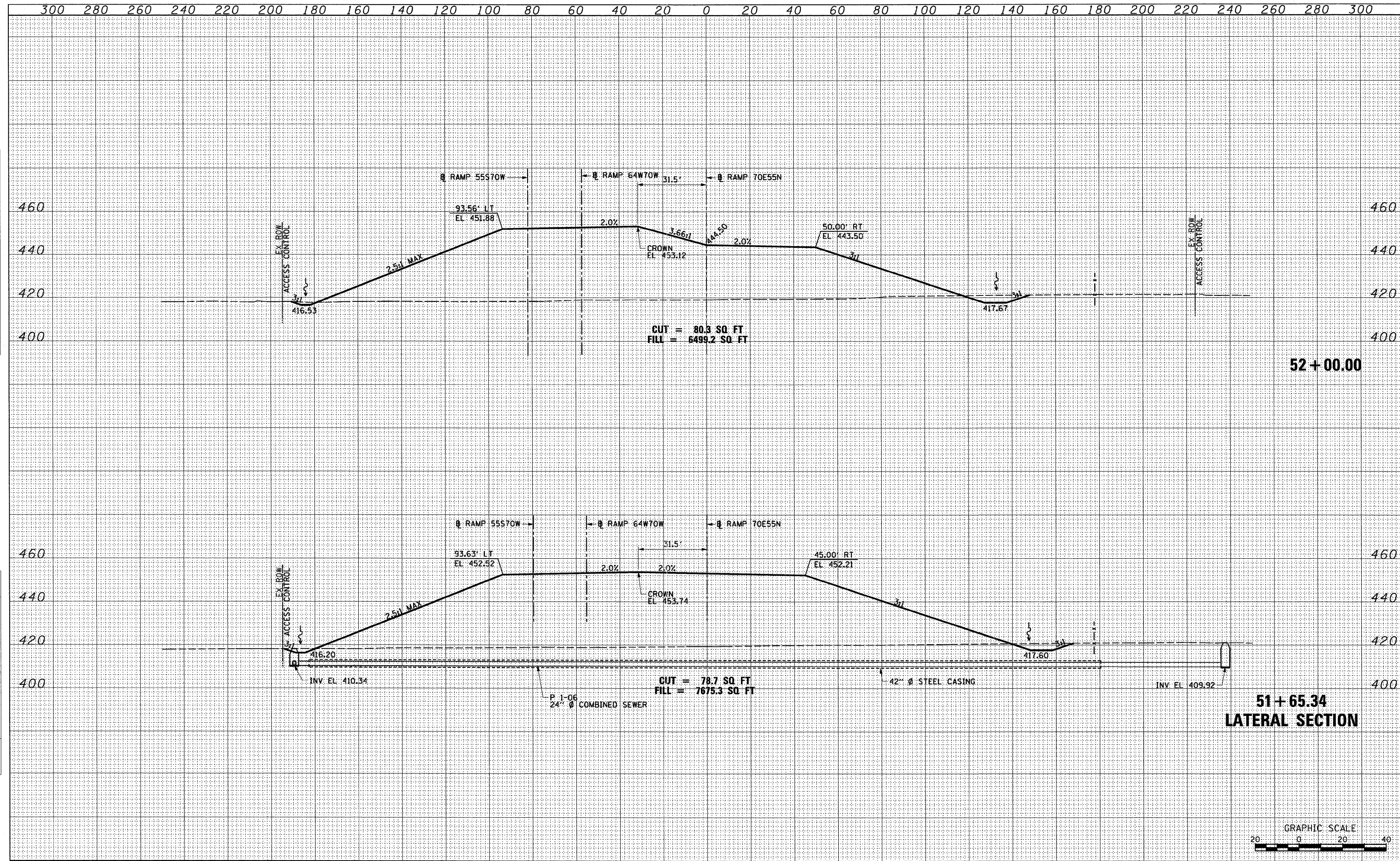


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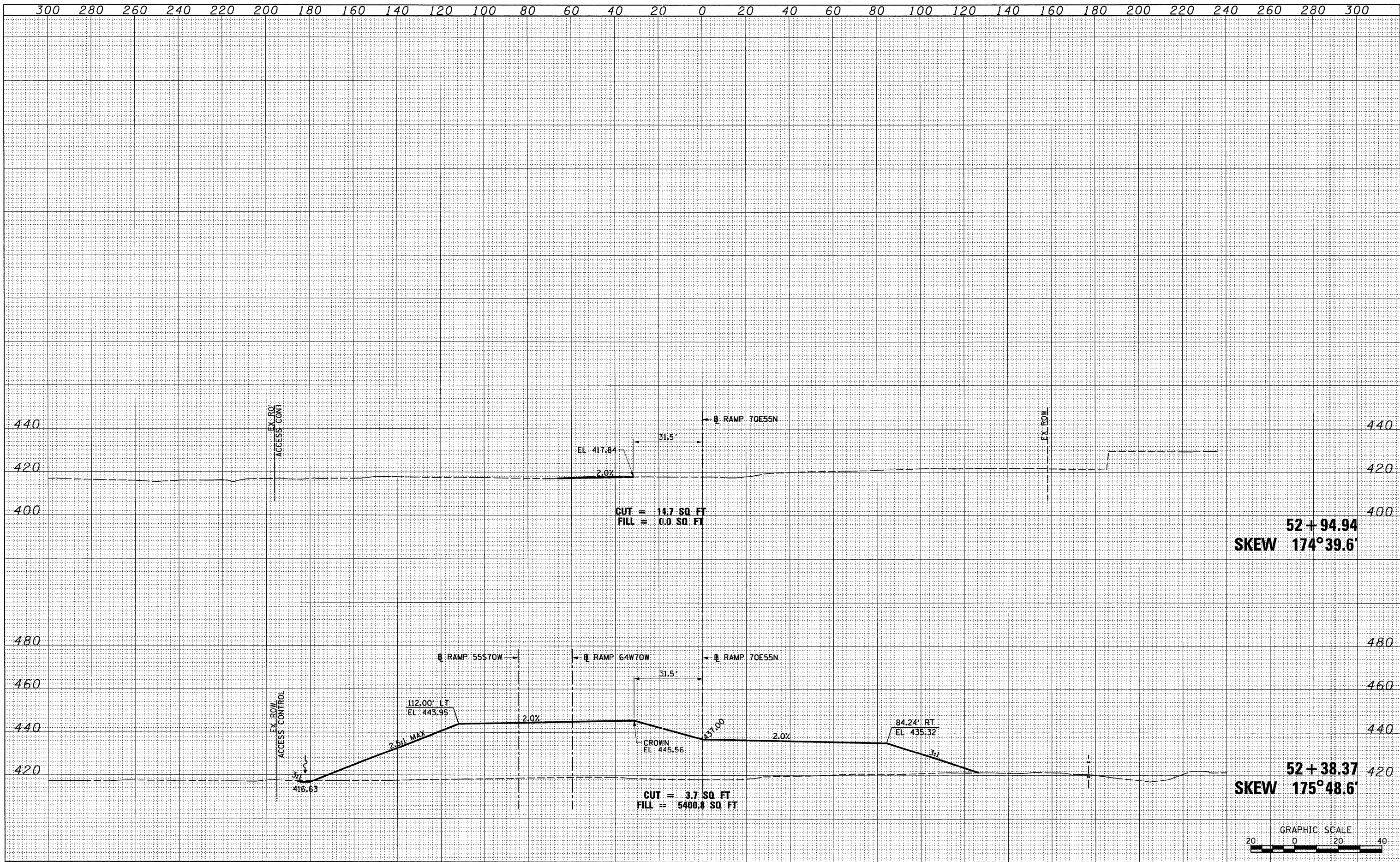


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	PLOT DATE = #DATE#	CHECKED DBM	REVISED -			CONTRACT NO. 76C50					
		DATE 2-12-10	REVISED -			FED. ROAD DIST. NO. ILLINDIS FED. AID PROJECT					
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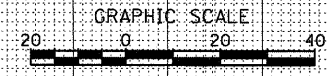
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NOTE BOOK NO.	TEMPLATE AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK NO.	TEMPLATE AREAS CHECKED	



**52+94.94**  
**SKEW 174°39.6'**

**52+38.37**  
**SKEW 175°48.6'**



FILE NAME = P:\P60046609\1000_Geopak\76C50\XS-Sheets\08TR-76C50-shr_XS_70E55N.dgn	USER NAME = pmsarno	DESIGNED OP	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS SECTIONS - PROPOSED I-70 EB TO I-55 NB</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 40.0000' / in.	CHECKED DBM	DRAWN OP	REVISED -			998	82-1-2HB	ST. CLAIR	72	72	
PLOT DATE = #DATE#	DATE 2-12-10	CHECKED DBM	REVISED -			CONTRACT NO. 76C50					
		DATE 2-12-10	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

SCALE: H: 20 V: 20 SHEET NO. 4 OF 4 SHEETS STA. 52+14.97 TO STA. 53+06.40