

PROPOSED HIGHWAY PLANS

FAP ROUTE 788 (RELOCATED IL RTE 3)

SECTION 520-1-2B

PROJECT ACF-0788(005)

ST. CLAIR COUNTY

C-98-067-12

PROPOSED RELOCATED IL ROUTE 3 UNDER MARTIN LUTHER KING DRIVE BRIDGE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 76F69		

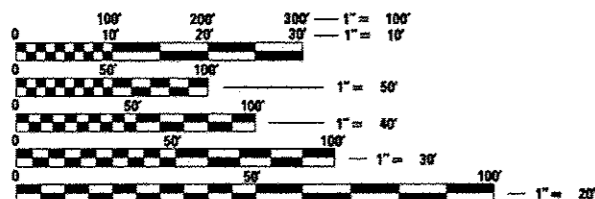
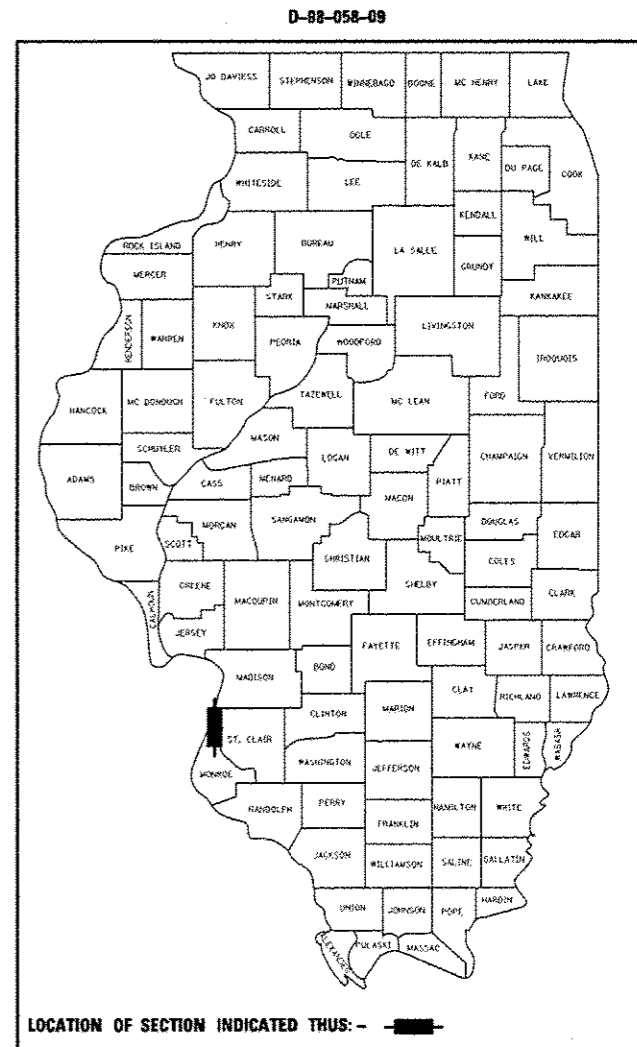
RELOCATED IL ROUTE 3 UNDER MARTIN LUTHER KING DRIVE BRIDGE
STR. NO. 082-0385 (NB) & STR. NO. 082-0386 (SB)

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HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-06 TEMPORARY EROSION CONTROL SYSTEMS
- 542101-02 REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS 15" - 36" IN DIA AT RT ANGLE WITH ROADWAY
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 542401-01 METAL END SECTION FOR PIPE CULVERTS
- 601101-01 CONCRETE HEADWALL FOR PIPE DRAIN
- 666001-01 RIGHT OF WAY MARKERS
- 701901-02 TRAFFIC CONTROL DEVICES



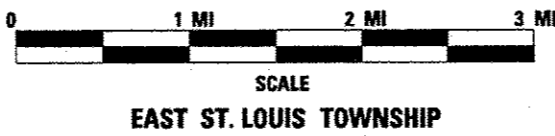
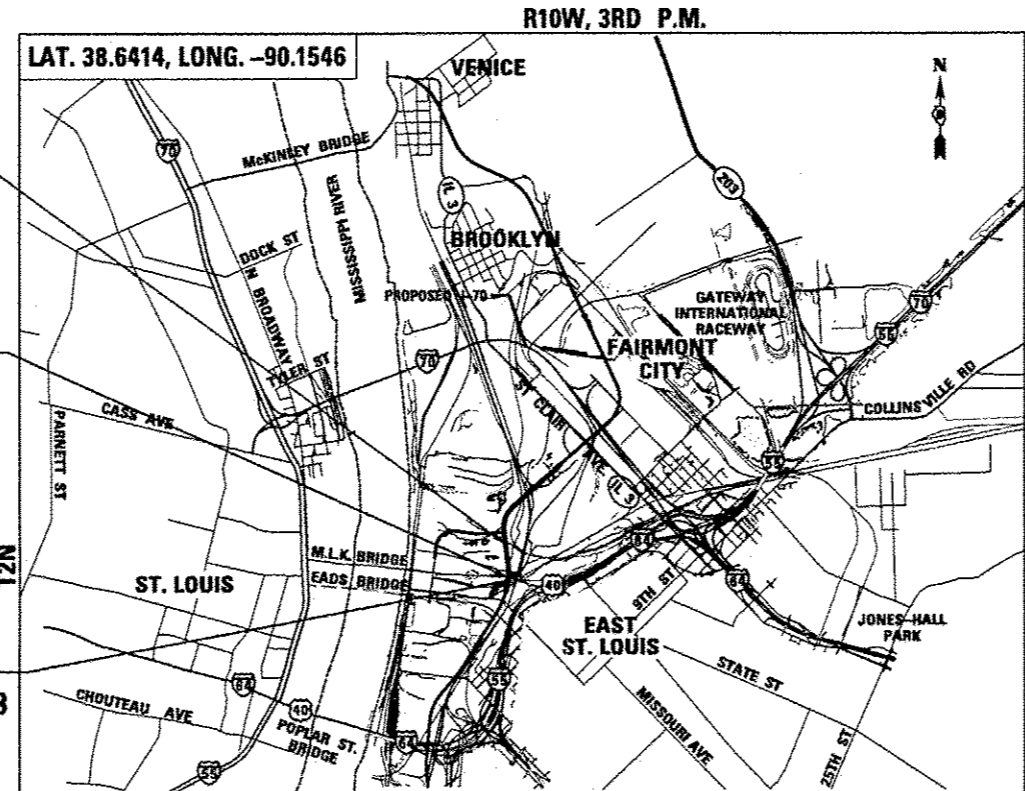
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

END IMPROVEMENT
RELOCATED IL ROUTE 3
STA 632 + 80.00

BRIDGE
SN 082-0385 (N.B.)
STA 622 + 89.09 TO
STA 623 + 52.46
SN 082-0386 (S.B.)
STA 622 + 96.99 TO
STA 623 + 61.63

BEGIN IMPROVEMENT
RELOCATED IL ROUTE 3
STA 621 + 85.00



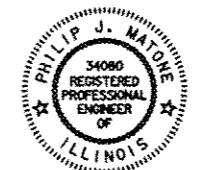
GROSS / NET LENGTH = 1,105.00' = 0.209 MI

PROJECT ENGINEER : TIMOTHY B. PADGETT (618) 346-3325
PROJECT MANAGER : DONALD R. HAYDEN (618) 346-3194

CONTRACT NO. 76F69



SIGNATURE: *Joseph M. Lowrance*
EXPIRES: 11/30/2012
DATE: 06-27-12
SHEETS: 32-79



SIGNATURE: *Philip J. Matone*
EXPIRES: 11/30/2013
DATE: 06-27-12
SHEETS: 1-18, 21-31 & 80-94

FUNCTIONAL CLASSIFICATION
URBAN EXPRESSWAY
ADT = 12,000 (2004), 16,000 (2024)
DESIGN SPEED = 50 MPH

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *June 27th* 2012

Joseph M. Lowrance
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

John D. Baranzelli PE/BC
ENGINEER OF DESIGN AND ENVIRONMENT

William B. Frey/BC
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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GENERAL NOTES

- ILLINOIS STATE LAW REQUIRES A 48 - HOUR NOTICE BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
 - AmerenCIPS - ELECTRIC
 - AmerenIP - GAS
 - AT&T ILLINOIS - COMMUNICATIONS
 - ILLINOIS AMERICAN WATER COMPANY - WATER
 - QWEST SOLUTIONS CENTER - COMMUNICATIONS
 - SHO-ME TECHNOLOGIES - COMMUNICATIONS
 - CHARTER COMMUNICATIONS
 - CLEARWAVE COMMUNICATIONS
 - CITY OF EAST ST. LOUIS
 - LEVEL 3 COMMUNICATIONS
 - SPRINT / NEXTEL
 - 360 NETWORKS INC.
 - EAST ST. LOUIS - SEWER
 - METRO EAST SANITARY DISTRICT (M.E.S.D.) - CAHOKIA CANAL

MEMBERS OF J.U.L.I.E. (800-892-0123, OR 811) ARE INDICATED BY AN *.
NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
- THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO THE SPECIAL PROVISIONS FOR POTENTIAL UTILITY CONFLICTS.
- THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO THE FACT THAT THERE ARE WATER MAINS MAINTAINED BY THE ILLINOIS AMERICAN WATER COMPANY (IAWC) AND/OR PRIVATE OWNERS WITHIN THE R.O.W. THE CONTRACTOR SHALL LOCATE THE WATER MAIN LOCATIONS IN CONJUNCTION WITH IAWC AND/OR PRIVATE OWNERS PRIOR TO COMMENCEMENT OF CONSTRUCTION IN THESE AREAS.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED - ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL OVERHEAD, SURFACE, AND UNDERGROUND UTILITIES INCLUDING DISTRICT 8 ITS EQUIPMENT WITHIN THE PROJECT LIMITS WHETHER OR NOT THE UTILITIES ARE SHOWN ON THE PLANS. ANY UTILITY OR DISTRICT 8 ITS EQUIPMENT THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR RELOCATED BY THE CONTRACTOR AT HIS/ HER OWN EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE CITY OF EAST ST. LOUIS FIRE AND POLICE DEPARTMENTS, AND MESD 14 WORKING DAYS PRIOR TO START OF CONSTRUCTION IN ORDER TO REVIEW AND COORDINATE THE CONSTRUCTION SCHEDULE.
EAST ST. LOUIS FIRE DEPT. CHIEF THOMAS GRIMMETT (618) 482-6875.
EAST ST. LOUIS POLICE DEPT. CHIEF LENZIE STEWART (618) 482-6740 OR 482-6700.
METRO EAST SANITARY DISTRICT (MESD): BOB SHIPLEY - (618) 452-9400
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE STATE ARCHAEOLOGICAL COORDINATOR - JOSEPH M. GALLOY, Ph.D., RPA (618) 251-3922 - 14 WORKING DAYS PRIOR TO START OF ANY PAVEMENT OR FOUNDATION REMOVAL.
- THE EXISTING TOPOGRAPHY SHOWN ON THE PLANS REFLECTS THE FINAL CONDITION AFTER THE COMPLETION OF CONTRACT 76E06, AND DOES NOT NECESSARILY REFLECT CURRENT FIELD CONDITIONS.
- 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.
- RIGHT OF WAY MARKERS SHALL BE INSTALLED SO THE BACK OF THE POST IS TWELVE (12") INCHES 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 3/8" IRON ROD WITH IDOT ALUMINUM CAP THAT SHALL NOT BE REMOVED, DAMAGED OR DISTURBED WHEN SETTING THE RIGHT OF WAY MARKERS AT THE TWELVE INCH (12") OFFSET.
- ABBREVIATIONS: T.E. = TEMPORARY EASEMENT, P.E. = PERMANENT EASEMENT, PRCFES = PRECAST REINFORCED CONCRETE FLARED END SECTION, TBF = TRENCH BACKFILL.
- REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL INCLUDE THE EXCAVATION OF INSITE MATERIAL WHICH WILL BE UNSUITABLE TO SUPPORT THE PROPOSED EMBANKMENT. THE LOCATIONS AND DEPTHS OF REMOVAL HAVE BEEN ESTIMATED FROM BORING LOGS BUT FINAL LOCATIONS AND DEPTHS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. GRANULAR EMBANKMENT SPECIAL IS INCLUDED TO REPLACE THE REMOVED UNSUITABLE MATERIAL.
- IF THE CONTRACTOR ENCOUNTERS PREVIOUSLY UNIDENTIFIED UTILITIES DURING EXCAVATION, THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY TO DETERMINE IF THE UTILITY IS ABANDONED. IF THE UTILITY IS ABANDONED, THE CONTRACTOR SHALL REMOVE THE PORTIONS OF THE UTILITY THAT CONFLICT WITH CONSTRUCTION OPERATIONS AND DISPOSE OF THE REMOVED UTILITY OUTSIDE OF THE STATE RIGHT OF WAY. THIS WORK SHALL BE PAID FOR PER ARTICLE 109.04. IF THE UTILITY IS NOT ABANDONED, THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY AND REQUEST THAT THE SERVICE BE TERMINATED OR RELOCATED TO THE SATISFACTION OF THE ENGINEER SO THAT THE PORTIONS OF THE UTILITY THAT CONFLICT WITH CONSTRUCTION OPERATIONS CAN BE REMOVED. THE DISPOSAL OF THE REMOVED UTILITY SHALL BE OUTSIDE OF THE STATE RIGHT OF WAY. THIS WORK SHALL BE PAID FOR PER ARTICLE 109.04.

GENERAL NOTES (CONTINUED)

- THE ILLINOIS DEPARTMENT OF TRANSPORTATION STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS.
- PLEASE CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING DRAINAGE THROUGH OUT THE CONSTRUCTION PROJECT. THE EMBANKMENT SURFACES SHALL BE SLOPED TO DRAIN OFF THE EMBANKMENT TO SIDE SLOPES OR MEDIAN DITCHES. MEDIAN DITCHES SHALL BE GRADED TO DRAIN ACROSS THE EMBANKMENT UNTIL SUCH TIME AS THE MEDIAN INLETS ARE INSTALLED AND FUNCTIONAL. DITCHES ALONG THE SIDES OF THE EMBANKMENT SHALL BE GRADED TO DRAIN THROUGH THE EMBANKMENT UNTIL SUCH TIME THAT PIPE CULVERTS ARE INSTALLED AND FUNCTIONAL. THIS WORK SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN EARTH EXCAVATION AND/OR FURNISHED EXCAVATION.
- THE WORK DESCRIBED ON THE EROSION AND SEDIMENT CONTROL SHEETS ARE AN INTEGRAL PART OF THE STORM WATER POLLUTION PREVENTION PLAN USED TO OBTAIN THE NPDES PERMIT FROM IEPA FOR THE CONSTRUCTION OF THIS PROJECT.
- ACCESS FOR WORK UNDER THE MLK BRIDGE IS TO BE GAINED BY USING EXISTING MISSOURI AVENUE.
- NO PILE DRIVING WILL BE ALLOWED UNTIL THE EMBANKMENT HAS SETTLED TO 90% CONSOLIDATION WHICH REQUIRES 45 DAYS OF SETTLEMENT AFTER THE EMBANKMENT IS PLACED TO ITS FULL HEIGHT.
- REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL INCLUDE THE EXCAVATION OF INSITE MATERIAL WHICH WILL BE UNSUITABLE TO SUPPORT THE PROPOSED EMBANKMENT. THE LOCATIONS AND DEPTHS OF REMOVAL HAVE BEEN ESTIMATED FROM BORING LOGS BUT FINAL LOCATIONS AND DEPTHS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. GRANULAR EMBANKMENT SPECIAL IS INCLUDED TO REPLACE THE REMOVED UNSUITABLE MATERIAL.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ARTICLE 280.03 OF THE STANDARD SPECIFICATIONS WHICH STATES THAT "NO MORE THAN A TOTAL OF 10 ACRES ARE DISTURBED AT A TIME". GROUND WHICH IS DISTURBED SHALL BE GRADED AND PROTECTED BY PERMANENT OR TEMPORARY EROSION CONTROL MEASURES TO ALLOW OTHER AREAS FOR WORK TO PROCEED WITHOUT EXCEEDING THE 10 ACRE LIMIT.
- THE WORK DESCRIBED ON THE EROSION CONTROL AND SEDIMENT CONTROL SHEETS ARE AN INTEGRAL PART OF THE STORM WATER POLLUTION PREVENTION PLAN USED TO OBTAIN THE NPDES PERMIT FROM IEPA FOR THE CONSTRUCTION OF THIS PROJECT.

ARCHAEOLOGICAL EXCAVATION PITS

- THE CONTRACTOR SHALL BE ADVISED THAT ARCHAEOLOGICAL EXPLORATORY EXCAVATION MAY BE ONGOING WITHIN THE RELOCATED IL ROUTE 3 INTERCHANGE RIGHT OF WAY DURING THIS CONTRACT.
- SOME VARIATIONS IN REMOVAL QUANTITIES AND FURNISHED EMBANKMENT QUANTITIES DUE TO ONGOING ADJACENT CONTRACT CONSTRUCTION AND/ OR ENVIRONMENTAL/ARCHAEOLOGICAL INVESTIGATION IS TO BE EXPECTED. ADJUSTMENTS FOR SUCH VARIATIONS SHALL BE MADE IN THE FIELD BY THE ENGINEER. ALL REMOVAL ITEMS THAT HAVE BEEN DISPLACED DUE TO ONGOING ADJACENT CONTRACT CONSTRUCTION AND/ OR ENVIRONMENTAL/ ARCHAEOLOGICAL INVESTIGATION, BUT REMAIN ON SITE, MUST BE REMOVED BY THE CONTRACTOR PER THE CONTRACT PLANS. QUANTITIES FOR REMOVAL ITEMS THAT NO LONGER REMAIN ON SITE SHALL BE SUBTRACTED FROM THE CONTRACT IN ACCORDANCE WITH ARTICLE 104.02.
- ARCHAEOLOGICAL EXCAVATION PITS WHICH HAVE BEEN PREVIOUSLY EXCAVATED AND BACKFILLED BY OTHERS MAY BE PRESENT WITHIN THE CONTRACT LIMITS. ANY SUCH ARCHAEOLOGICAL EXCAVATION PIT AREAS WHICH LIE UNDER FUTURE ROADWAY EMBANKMENT WILL BE IDENTIFIED BY THE ENGINEER FOR RE-EXCAVATION AND RE-COMPACTION PER THE SPECIAL PROVISION FOR "EARTH EXCAVATION (SPECIAL)." UNUSED QUANTITY OF EARTH EXCAVATION (SPECIAL) SHALL BE SUBTRACTED FROM THE CONTRACT IN ACCORDANCE WITH 104.02.

COMMITMENTS

- ANY WATER WELLS FOUND DURING CONSTRUCTION WILL BE SEALED ACCORDING TO IEPA TO PREVENT GROUNDWATER POLLUTION FROM CONSTRUCTION AND FROM FUTURE ROADWAY MAINTENANCE.
- THE TREE REMOVALS WILL BE MITIGATED IN A FUTURE CONTRACT AS PART OF THE IDOT TREE REPLACEMENT PROGRAM UNDER DEPARTMENT POLICY D & E-18.
- IF ASH TREES ARE REMOVED ON THE PROJECT, THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH MEASURES SPECIFIED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE (IDOA) TO PREVENT THE SPREAD OF THE EMERALD ASH BORER. THE IDOA INFORMATION FOR ASH TREE REMOVAL CAN BE FOUND ON THE IDOA WEBSITE AT: www.AGR.STATE.IL.US/EAB.
- NO TREE CLEARING TO OCCUR BETWEEN MAY 1 AND AUGUST 31 OF ANY YEAR TO PROVIDE PROTECTION FOR THE FEDERALLY ENDANGERED INDIANA BAT (MYOTIS SEDOLIS).



DESIGNED	JJO	REVISED	
DRAWN	JJO	REVISED	
CHECKED	PJM	REVISED	
DATE	06/26/12	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	S20-1-2B	ST. CLAIR	94	2
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				

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

80% FED.
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY 0001 URBAN	BRIDGE 0008 S. N. 082-0385	BRIDGE 0008 S. N. 082-0386	BRIDGE 0008 S. N. 082-6003 & 082-0287
20200100	EARTH EXCAVATION	CU YD	10397	10397			
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	530	530			
21000310	GRANULAR EMBANKMENT, SPECIAL	CU YD	530	530			
21301060	EXPLORATION TRENCH 60" DEPTH	FOOT	800	800			
* 25000210	SEEDING, CLASS 2A	ACRE	0.2	0.2			
* 25000305	SEEDING, CLASS 3A	ACRE	2.4	2.4			
* 25000314	SEEDING, CLASS 4B	ACRE	0.1	0.1			
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	243	243			
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	243	243			
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	243	243			
* 25000700	AGRICULTURAL GROUND LIMESTONE	TON	6	6			
* 25100115	MULCH, METHOD 2	ACRE	0.3	0.3			
* 25100630	EROSION CONTROL BLANKET	SQ YD	9560	9560			
* 25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	2340	2340			

* SPECIALTY ITEM

Farnsworth
GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/503-6435, 309/503-1071 fax

DESIGNED - JJO
DRAWN - JJO
CHECKED - PJM
DATE - 06/26/12

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE. 788	SECTION 520-1-2B	COUNTY ST. CLAIR	TOTAL SHEET SHEETS NO. 94 3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F69

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY 0001 URBAN	BRIDGE 0008 S. N. 082-0385	BRIDGE 0008 S. N. 082-0386	BRIDGE 0008 S. N. 082-6003 & 082-0287
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1200	1200			
28000305	TEMPORARY DITCH CHECKS	FOOT	144	144			
28000400	PERIMETER EROSION BARRIER	FOOT	230	230			
28000500	INLET AND PIPE PROTECTION	EACH	2	2			
28100707	STONE DUMPED RIPRAP, CLASS A4	SO YD	76	76			
28200200	FILTER FABRIC	SO YD	76	76			
28500100	FABRIC FORMED CONCRETE REVETMENT MAT	SO YD	328		328		
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	65	65			
50200100	STRUCTURE EXCAVATION	CU YD	414		205	209	
50300225	CONCRETE STRUCTURES	CU YD	131.2		64.8	66.4	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	605.8		299.9	305.9	
50300260	BRIDGE DECK GROOVING	SO YD	978		482	496	
50300300	PROTECTIVE COAT	SO YD	1426		706	720	
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		0.5	0.5	



DESIGNED - JJO	REVISED -
DRAWN - JJO	REVISED -
CHECKED - PJM	REVISED -
DATE - 06/26/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE. 788	SECTION 520-1-2B	COUNTY ST. CLAIR	TOTAL SHEETS 94	SHEET NO. 4
ILLINOIS FED. AID PROJECT				CONTRACT NO. T6F69

80% FED.
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY 0001 URBAN	BRIDGE 0008 S. N. 082-0385	BRIDGE 0008 S. N. 082-0386	BRIDGE 0008 S. N. 082-6003 & 082-0287
50500505	STUD SHEAR CONNECTORS	EACH	3906		1953	1953	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	138610		68790	69820	
50800515	BAR SPLICERS	EACH	174		86	88	
51200959	FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	2028		1032	996	
51202305	DRIVING PILES	FOOT	2028		1032	996	
51203200	TEST PILE METAL SHELLS	EACH	4		2	2	
51500100	NAME PLATES	EACH	2		1	1	
52100520	ANCHOR BOLTS, 1"	EACH	56		28	28	
542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	82	82			
5421D015	PIPE CULVERTS, CLASS D, TYPE 1 15" (TEMPORARY)	FOOT	40	40			
54213450	END SECTIONS 15"	EACH	2	2			
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2	2			
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	174		86	88	
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	12	12			

Farnsworth
GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309-663-8433, 309-663-1571 fax

DESIGNED - JJO	REVISED -
DRAWN - JJO	REVISED -
CHECKED - PJM	REVISED -
DATE - 06/26/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE. 788	SECTION 520-1-2B	COUNTY ST. CLAIR	TOTAL SHEETS 94	SHEET NO. 5
ILLINOIS FED. AID PROJECT				CONTRACT NO. 76F69

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY 0001	BRIDGE 0008	BRIDGE 0008	BRIDGE 0008
				URBAN	S. N. 082-0385	S. N. 082-0386	S. N. 082-6003 & 082-0287
60100915	PIPE DRAINS 6"	FOOT	112	112			
60107700	PIPE UNDERDRAINS 6"	FOOT	112	112			
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	7	7			
67100100	MOBILIZATION	L SUM	1	1			
Z0013796	SEDIMENT CONTROL, STABILIZED CONSTRUCTION ENTRANCE	SO YD	170	170			
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
Z0018800	DRAINAGE SYSTEM	L SUM	1				1
Z0028462	GEOTEXTILE RETAINING WALL	SO FT	2001		2001		
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	314		156	158	
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1			
Z0056100	SAND DRAINAGE BLANKET	CU YD	1500	1500			
+ Z0076600	TRAINEES	HOUR	1,500	1,500			
+ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1,500	1,500			
X0324045	SEDIMENT CONTROL, STABILIZED CONSTRUCTION ENTRANCE REMOVAL	EACH	1	1			
X0324775	SEDIMENT CONTROL, STABILIZED CONSTRUCTION ENTRANCE MAINTENANCE	SO YD	170	170			

URBAN

+0042



DESIGNED - JJQ	REVISIONS
DRAWN - JJQ	REVISIONS
CHECKED - PJM	REVISIONS
DATE - 06/26/12	REVISIONS

DESIGNED - JJQ	REVISIONS
DRAWN - JJQ	REVISIONS
CHECKED - PJM	REVISIONS
DATE - 06/26/12	REVISIONS

DESIGNED - JJQ	REVISIONS
DRAWN - JJQ	REVISIONS
CHECKED - PJM	REVISIONS
DATE - 06/26/12	REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE. 788	SECTION 520-1-28	COUNTY ST. CLAIR	TOTAL SHEETS 94	SHEET NO. 6
CONTRACT NO. 76F69			ILLINOIS FED. AID PROJECT	

80% FED.
20% STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	URBAN	ROADWAY	BRIDGE	BRIDGE	BRIDGE
				URBAN	0001	0008	0008	0008
					URBAN	S. N. 082-0385	S. N. 082-0386	S. N. 082-6003 & 082-0287
X0325833	WICK DRAINS	FOOT	23384	23384				
X2010507	CLEARING, SPECIAL	ACRE	4.1	4.1				
X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	100	100				
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	334			165	169	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1				



DESIGNED - JJO
DRAWN - JJO
CHECKED - PJM
DATE - 06/26/12

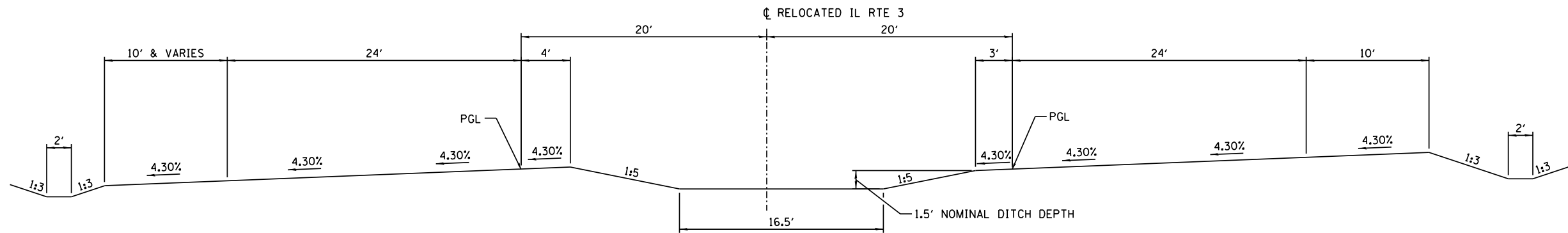
REVISED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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

F.A.P. RTE. 788	SECTION 520-1-28	COUNTY ST. CLAIR	TOTAL SHEETS 94	SHEET NO. 7
CONTRACT NO. 76F69			ILLINOIS FED. AID PROJECT	



RELOCATED IL RTE 3 - TYPICAL SECTION

STA 622+06.09 TO STA 624+56.72
(EXCEPT FOR STRUCTURES 082-0385 & 082-0386)

NOTE:
PROFILE GRADE FOR CLEARING & GRADING SURFACE IS SET AT THE
FINISHED PAVEMENT PROFILE GRADE LINE.



USER NAME = \$USER\$	DESIGNED - JJO	REVISED -
	DRAWN JJO	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - PJM	REVISED -
PLOT DATE = \$DATE\$	DATE - 06/26/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	8
				CONTRACT NO. 76F69
ILLINOIS FED. AID PROJECT				

EARTHWORK				
LOCATION	EARTH EXCAVATION	TOTAL EXCAVATION ADJUSTED FOR 25% SHRINKAGE	EMBANKMENT	BALANCE WASTE (+) SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD
STA 622+06.09 - STA 629+71.95	10,460	7,845	7,235	610

RELOCATED IL RTE 3 REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL				
STATION	WIDTH OF REMOVE & REPLACE	DEPTH	LENGTH	VOLUME
	FOOT	FOOT	FOOT	CU YARD
622+06.09	0	1		
622+43.26	88	1	37.17	60.6
622+50.00	94	1	6.74	22.7
623+00.00	0	1	50.00	87.0
623+50.00	0	1	50.00	0.0
624+00.00	97	1	50.00	89.8
624+07.32	166	1	7.32	35.7
624+50.00	111	1	42.68	218.9
624+56.72	0	1	6.72	13.8
TOTAL				530

RELOCATED IL RTE 3 GRANULAR EMBANKMENT, SPECIAL				
STATION	WIDTH OF REMOVE & REPLACE	DEPTH	LENGTH	VOLUME
	FOOT	FOOT	FOOT	CU YARD
622+06.09	0	1		
622+43.26	88	1	37.17	60.6
622+50.00	94	1	6.74	22.7
623+00.00	0	1	50.00	87.0
623+50.00	0	1	50.00	0.0
624+00.00	97	1	50.00	89.8
624+07.32	166	1	7.32	35.7
624+50.00	111	1	42.68	218.9
624+56.72	0	1	6.72	13.8
TOTAL				530

EROSION CONTROL BLANKET	
STATION TO STATION	SQ YD
622+06, LT & RT - 628+50, LT	9,060
SEEDING, CLASS 4B AREA	500
TOTAL	9,560

HEAVY DUTY EROSION CONTROL BLANKET	
STATION TO STATION	SQ YD
628+50, LT & RT - 631+55, LT & RT	2,340
TOTAL	2,340

TEMPORARY DITCH CHECKS	
STATION	FOOT
622+35, RT	18
622+88, CL	18
623+40, LT	18
624+00, CL	18
627+50, LT	18
629+50, LT	18
631+15, LT	18
632+50, LT	18
TOTAL	144

PERIMETER EROSION BARRIER	
STATION TO STATION	FOOT
622+06, LT & RT	230
TOTAL	230

INLET AND PIPE PROTECTION	
STATION	EACH
624+30, RT	1
625+09, LT	1
TOTAL	2

STONE DUMPED RIPRAP, CLASS A4 / FILTER FABRIC	
STATION	SQ YD
624+75, RT	76
TOTAL	76

AGGREGATE FOR TEMPORARY ACCESS	
STATION	TON
624+75, RT	22.5
625+38, LT	42.5
TOTAL	65

PIPE CULVERTS, CLASS A, TYPE 1 30"	
STATION	FOOT
624+75, RT	82
TOTAL	82

PIPE CULVERTS, CLASS D, TYPE 1 15" (TEMPORARY)	
STATION	FOOT
625+38, LT	40
TOTAL	40

END SECTIONS 15"	
STATION	EACH
625+38, LT	2
TOTAL	2

PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	
STATION	EACH
624+75, RT	2
TOTAL	2

CONCRETE HEADWALLS FOR PIPE DRAINS	
STATION	EACH
622+42.81, RT	1
622+63.12, LT	1
622+78.38, RT	1
622+79.51, 62.27' RT	1
622+93.66, LT	1
623+03.08, 62.17' LT	1
623+45.56, 62.22' RT	1
623+56.33, RT	1
623+71.73, LT	1
623+71.73, RT	1
623+73.37, 62.12' LT	1
624+07.77, LT	1
TOTAL	12

PIPE DRAINS, 6"	
STATION	FOOT
622+42.81, RT	14
622+63.12, LT	14
622+78.38, RT	14
622+93.66, LT	14
623+56.33, RT	14
623+71.73, LT	14
623+71.73, RT	14
624+07.77, LT	14
TOTAL	112

SAND DRAINAGE BLANKET	
STATION TO STATION	CU YD
622+42.81, RT - 623+19.00, LT	800
623+29.50, RT - 624+07.77, LT	700
TOTAL	1,500

WICK DRAINS	
STATION TO STATION	FOOT
622+42.81, RT - 623+19.00, LT	13,024
623+29.50, RT - 624+07.77, LT	10,360
TOTAL	23,384

FURNISHING AND ERECTION RIGHT OF WAY MARKERS		
STATION	OFFSET	EACH
621+79.53	177.61' RT	1
623+20.06	125.00' LT	1
623+40.51	86.32' RT	1
624+33.76	90.57' RT	1
625+01.43	95.56' RT	1
625+78.92	117.14' RT	1
625+86.22	124.85' RT	1
TOTAL		7

SEEDING TABLE								
LOCATION	SEEDING CLASS 2A	SEEDING CLASS 3A	SEEDING CLASS 4B	MULCH METHOD 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	TEMPORARY EROSION CONTROL SEEDING
	ACRE	ACRE	ACRE	ACRE	LB	LB	LB	LB
IL RTE 3								
STA 621+85 TO STA 628+50, LT/RT		1.7		1.7	153	153	153	510
STA 628+50 TO STA 632+80, LT		0.7		0.7	63	63	63	210
STA 622+43 TO STA 624+08, LT/RT				0.2	18	18	18	60
STA 632+10 TO STA 632+80, LT			0.1	0.1	9	9	9	30
STA 622+06 TO STA 632+80, LT/RT	0.2							360
TOTAL	0.2*	2.4*	0.1*	2.7*	243	243	243	1200*

* QUANTITY ROUNDED UP



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DESIGNED - JJO
DRAWN - JJO
PLOT SCALE = #SCALE*
PLOT DATE = #DATE*

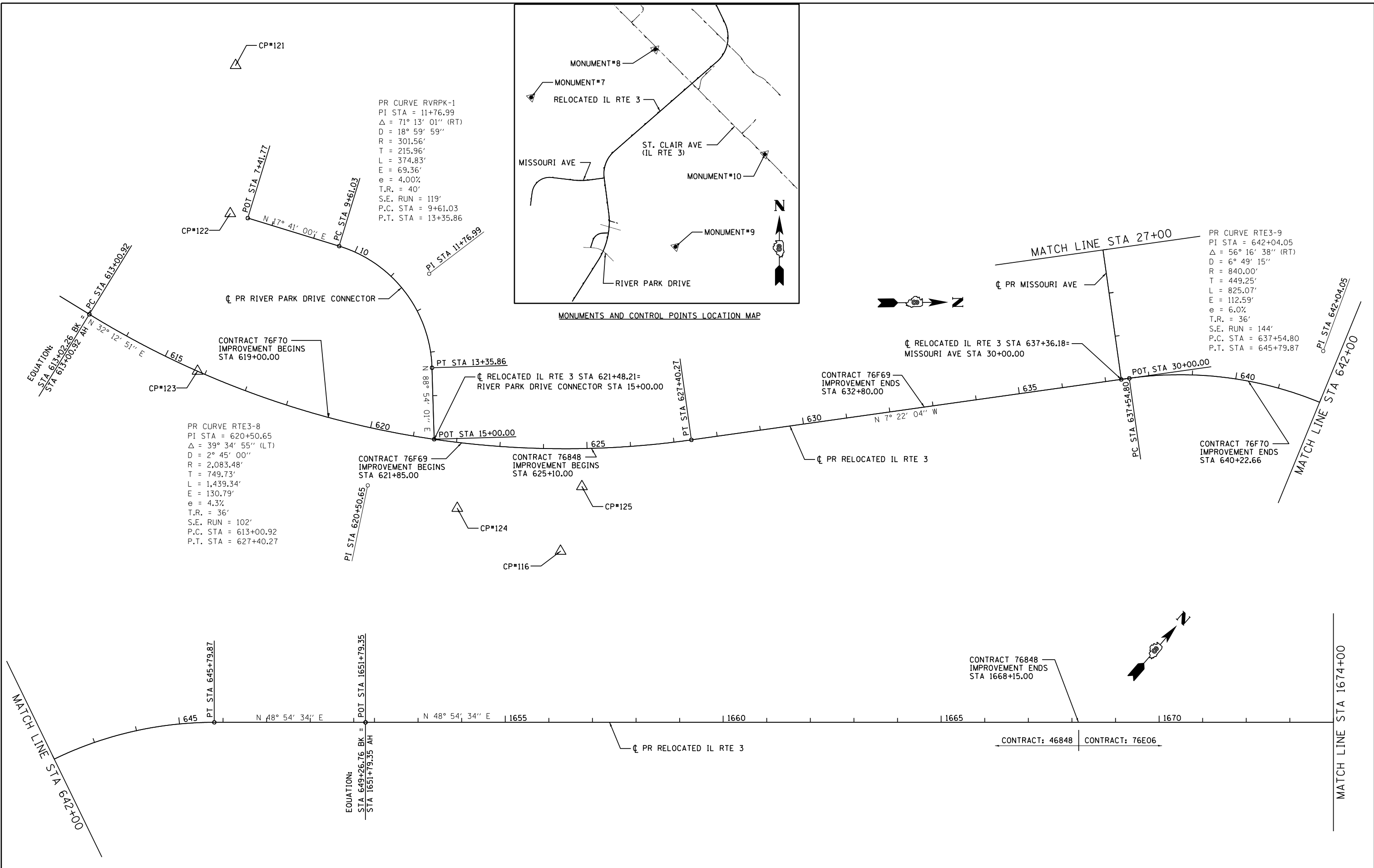
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REVISOR -
REVISOR -
DATE - 06/26/12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

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

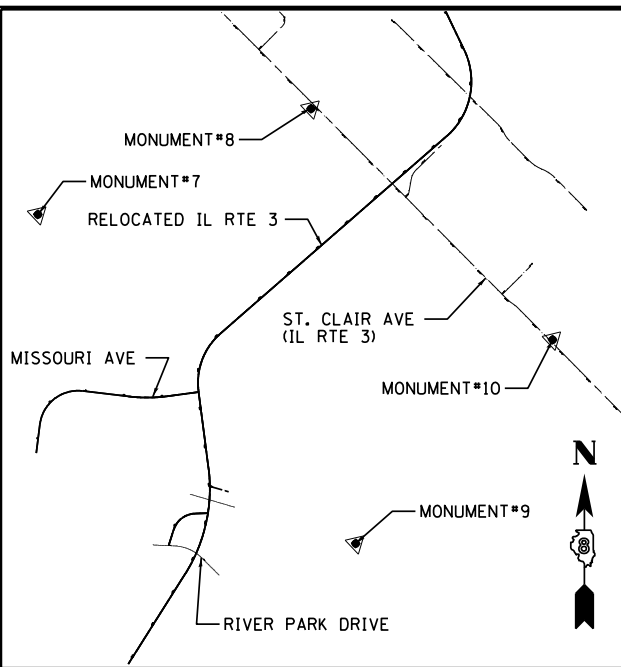
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	9
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				



PR CURVE RVRPK-1
 PI STA = 11+76.99
 $\Delta = 71^\circ 13' 01''$ (RT)
 $D = 18^\circ 59' 59''$
 $R = 301.56'$
 $T = 215.96'$
 $L = 374.83'$
 $E = 69.36'$
 $e = 4.00\%$
 $T.R. = 40'$
 $S.E. RUN = 119'$
 $P.C. STA = 9+61.03$
 $P.T. STA = 13+35.86$

PR CURVE RTE3-8
 PI STA = 620+50.65
 $\Delta = 39^\circ 34' 55''$ (LT)
 $D = 2^\circ 45' 00''$
 $R = 2,083.48'$
 $T = 749.73'$
 $L = 1,439.34'$
 $E = 130.79'$
 $e = 4.3\%$
 $T.R. = 36'$
 $S.E. RUN = 102'$
 $P.C. STA = 613+00.92$
 $P.T. STA = 627+40.27$

PR CURVE RTE3-9
 PI STA = 642+04.05
 $\Delta = 56^\circ 16' 38''$ (RT)
 $D = 6^\circ 49' 15''$
 $R = 840.00'$
 $T = 449.25'$
 $L = 825.07'$
 $E = 112.59'$
 $e = 6.0\%$
 $T.R. = 36'$
 $S.E. RUN = 144'$
 $P.C. STA = 637+54.80$
 $P.T. STA = 645+79.87$



MONUMENTS AND CONTROL POINTS LOCATION MAP

MATCH LINE STA 642+00

MATCH LINE STA 1674+00



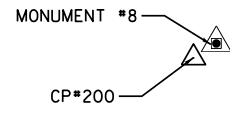
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PLOT SCALE = #SCALE#	DRAWN - JJO	REVISED -
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	DATE - 06/26/12	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

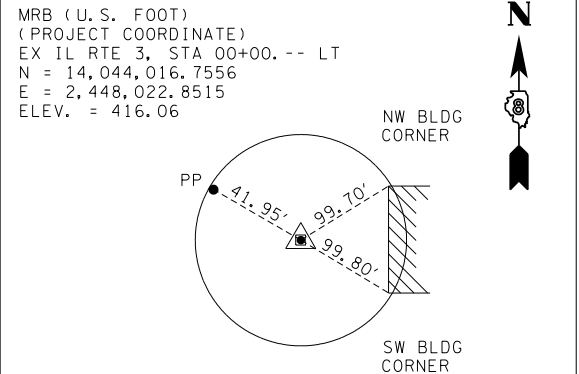
ALIGNMENTS, TIES, AND BENCHMARKS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	10
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				



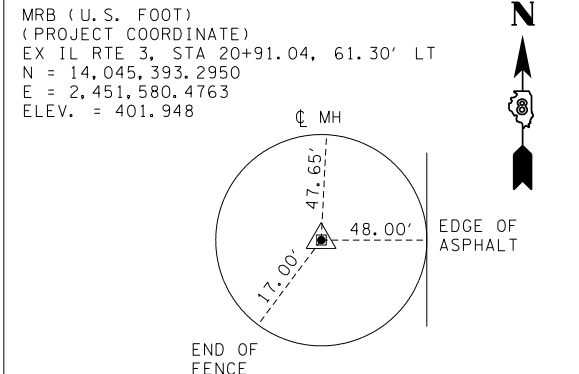
MONUMENT NO. 7



MRB (U.S. FOOT)
(PROJECT COORDINATE)
EX IL RTE 3, STA 00+00. -- LT
N = 14,044,016.7556
E = 2,448,022.8515
ELEV. = 416.06

DESCRIPTION:
SET IN THE SOUTHWEST CORNER OF CONCRETE TO A 6' X 6' S.O. MANHOLE STRUCTURE ON THE EAST SIDE OF FRONT STREET IN GRAVEL AT EDGE OF ASPHALT BETWEEN LOW SERVICE PUMPSTATION AND BISTATE WAREHOUSING, INC 650 N. FRONT STREET, 0.7 MILE NORTH OF THE INTERSECTION OFFRONT STREET AND RIVERPARK.

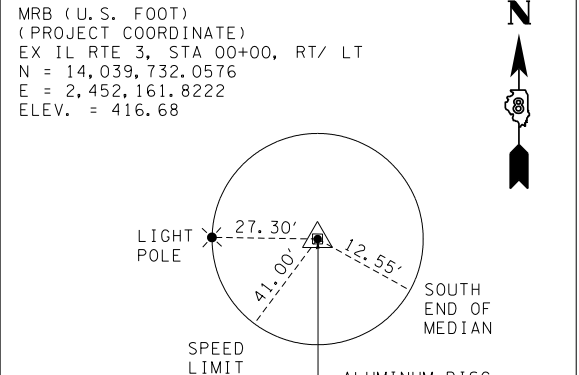
MONUMENT NO. 8



MRB (U.S. FOOT)
(PROJECT COORDINATE)
EX IL RTE 3, STA 20+91.04, 61.30' LT
N = 14,045,393.2950
E = 2,451,580.4763
ELEV. = 401.948

DESCRIPTION:
SET IN THE SOUTH END OF A HEADWALL TO A BOX CULVERT UNDER ILLINOIS ROUTE 3, 0.7 MILES SOUTH OF CANAL STREET, 0.1 MILES SOUTH OF INDUSTRIAL DRIVE AND NORTH OF SINGLE RAILROAD TRACK.

MONUMENT NO. 9

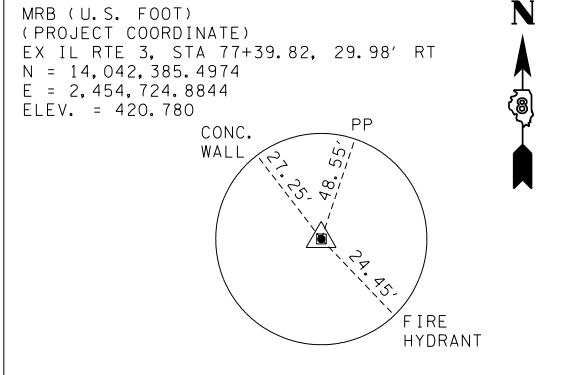


MRB (U.S. FOOT)
(PROJECT COORDINATE)
EX IL RTE 3, STA 00+00, RT/ LT
N = 14,039,732.0576
E = 2,452,161.8222
ELEV. = 416.68

NOTE:
CAP KNOCKED OFF STEM OF DISK REMAINS

DESCRIPTION:
SET IN CONCRETE MEDIAN IN THE CENTER LINE OF ST. LOUIS STREET, NORTH OF COLLINSVILLE ROAD, 40' ± NORTH WEST OF THE CENTER LINE OF COLLINSVILLE ROAD.

MONUMENT NO. 10



MRB (U.S. FOOT)
(PROJECT COORDINATE)
EX IL RTE 3, STA 77+39.82, 29.98' RT
N = 14,042,385.4974
E = 2,454,724.8844
ELEV. = 420.780

DESCRIPTION:
SET IN THE CONCRETE MEDIAN ON THE EAST SIDE OF ROUTE 3 (ST. CLAIRE AVE.) BETWEEN TWO RAILROAD BRIDGES, APPROXIMATELY 0.1 MILE SOUTH OF 1ST STREET (IN FRONT OF 301 ST. CLAIR AVE WAREHOUSE AND STORE FIXTURE CO.)

COORDINATE SYSTEM

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

HORIZONTAL DATUM

THE DATUM USED IS NAD-83
THE MRB PROJECT COORDINATES HAVE BEEN TRANSFORMED FROM UTM BY USING AN AVERAGE PROJECTION FACTOR IN THE PROJECT AREA.

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

THE BASE POINT THAT ALL UTM COORDINATES WERE SCALED FROM WAS THE CENTRALLY LOCATED MONUMENT NO. 10. EACH VECTOR FROM MONUMENT NO. 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 COORDINATE (MRB). (NOTE: 1 METER EQUALS 3.28083333 U.S. SURVEY FOOT).

UTM ZONE 15 NORTH (METERS) = PROJECTED GRID COORDINATES
MRB (FEET) = PROJECT SURFACE COORDINATES

VERTICAL DATUM

THE DATUM USED IS NAVD 1988

ALIGNMENT COORDINATES - RELOCATED IL RTE 3			
STATION	NORTHING	EASTING	
PC	613+00.92	14039337.3396	2449941.8130
PI	620+50.65	14039971.6573	2450341.4813
PT	627+40.27	14040715.1960	2450245.3362
PC	637+54.80	14041721.3548	2450115.2322
PI	642+04.05	14042166.8927	2450057.6208
PT	645+79.87	14042462.1608	2450396.2058
POT	1651+79.35	14042690.1546	2450657.6471
PC	1687+40.68	14045030.8377	2453341.7169
PI	1694+63.93	14045506.1999	2453886.8164
PT	1699+77.51	14046158.6071	2453574.6187

ALIGNMENT COORDINATES - RIVER PARK DRIVE CONNECTOR			
STATION	NORTHING	EASTING	
POT	7+41.77	14039703.2264	2449725.1400
PC	9+61.03	14039912.1259	2449791.7411
PI	11+76.99	14040117.8849	2449857.3409
PT	13+35.86	14040122.0301	2450073.2643
POT	15+00.00	14040125.1806	2450237.3755

ALIGNMENT COORDINATES - PR MISSOURI AVE			
STATION	NORTHING	EASTING	
POT	3+17.75	14040909.0744	2448002.0571
PC	6+94.56	14041282.9978	2448048.6307
PI	11+92.09	14041776.7073	2448110.1241
PT	14+77.48	14041717.6652	2448604.1328
PC	20+80.60	14041646.0911	2449202.9964
PI	23+29.42	14041616.5634	2449450.0563
PT	25+75.70	14041648.4718	2449696.8200
POT	30+00.00	14041702.8845	2450117.6205

ALIGNMENT COORDINATES - EX IL RTE 3			
STATION	NORTHING	EASTING	
PC	83+34.12	14042787.9481	2454286.5585
PI	83+86.24	14042825.0872	2454249.9910
PRC	84+37.98	14042853.8847	2454206.5526
PI	84+88.85	14042881.9915	2454164.1558
PT	85+39.37	14042918.0631	2454128.2863

PR CURVE RTE3-10
PI STA = 1694+63.93
Δ = 74° 28' 55" (LT)
D = 6° 01' 19"
R = 951.44'
T = 723.26'
L = 1,236.83'
E = 243.69'
e = BY OTHERS
T.R. = BY OTHERS
S.E. RUN = BY OTHERS
P.C. STA = 1687+40.68
P.T. STA = 1699+77.51

MATCH LINE STA 1674+00

EX IL RTE 3
STA 1678+06.67=
EX IL RTE 3 STA 106+53.21

PR RELOCATED IL RTE 3
ALIGNMENT FOR INFORMATION

MATCH LINE STA 103+00



USER NAME = *USER*	DESIGNED - JJO	REVISED -
PLOT SCALE = *SCALE*	DRAWN - JJO	REVISED -
PLOT DATE = *DATE*	CHECKED - PJM	REVISED -
	DATE - 06/26/12	REVISED -

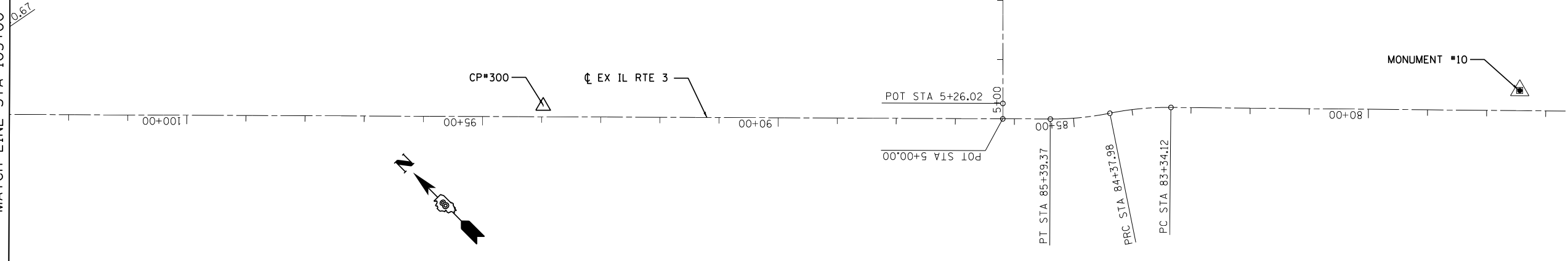
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENTS, TIES, AND BENCHMARKS

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

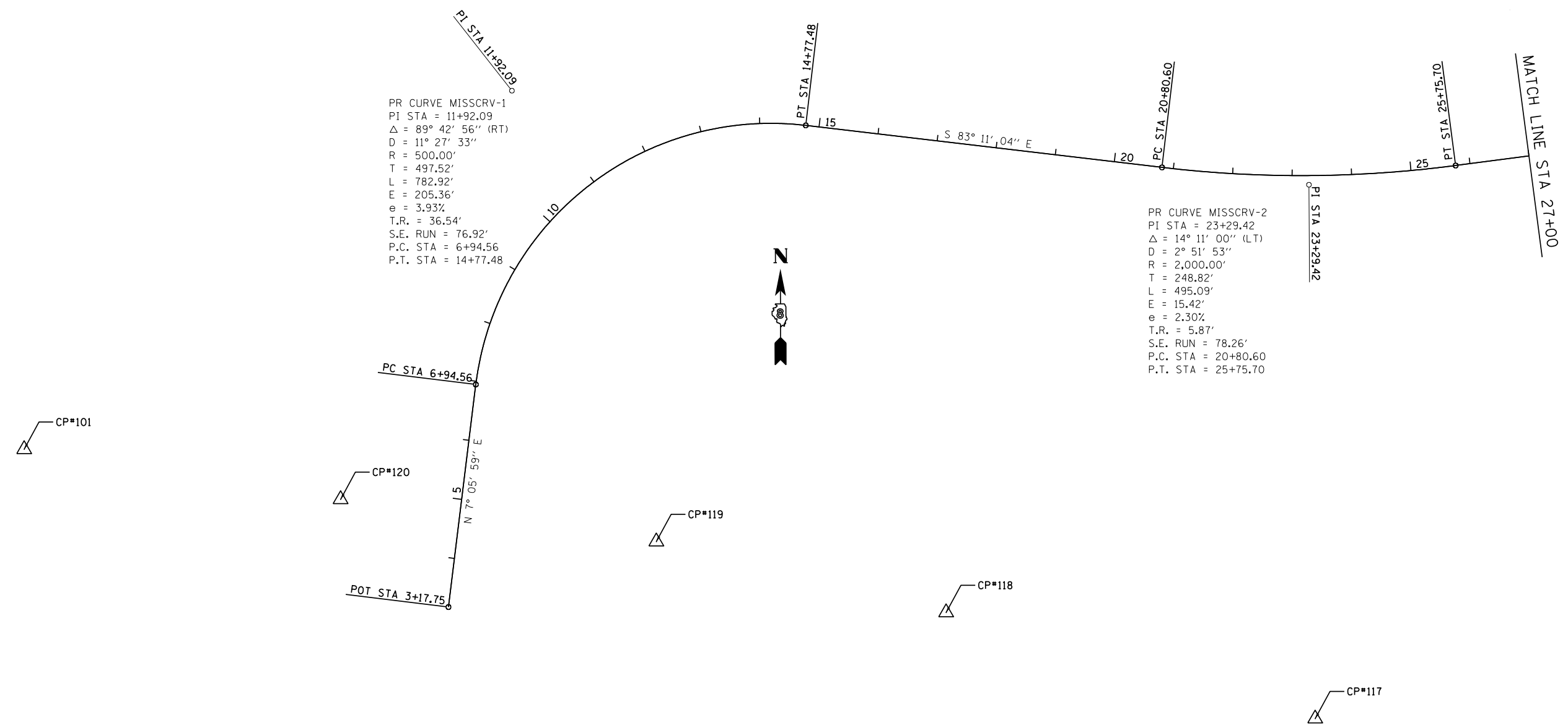
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	11
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				

MATCH LINE STA 103+00



PR CURVE MISSCRV-1
 PI STA = 11+92.09
 $\Delta = 89^\circ 42' 56''$ (RT)
 $D = 11^\circ 27' 33''$
 $R = 500.00'$
 $T = 497.52'$
 $L = 782.92'$
 $E = 205.36'$
 $e = 3.93\%$
 $T.R. = 36.54'$
 $S.E. RUN = 76.92'$
 $P.C. STA = 6+94.56$
 $P.T. STA = 14+77.48$

PR CURVE MISSCRV-2
 PI STA = 23+29.42
 $\Delta = 14^\circ 11' 00''$ (LT)
 $D = 2^\circ 51' 53''$
 $R = 2,000.00'$
 $T = 248.82'$
 $L = 495.09'$
 $E = 15.42'$
 $e = 2.30\%$
 $T.R. = 5.87'$
 $S.E. RUN = 78.26'$
 $P.C. STA = 20+80.60$
 $P.T. STA = 25+75.70$



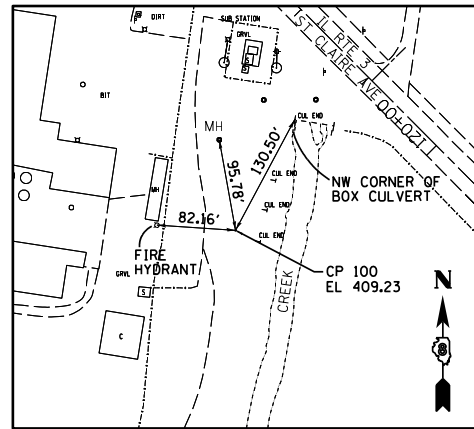
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DRAWN - JJ0	REVISIONS -	
PLOT SCALE = *SCALE*	CHECKED - PJM	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ALIGNMENTS, TIES, AND BENCHMARKS

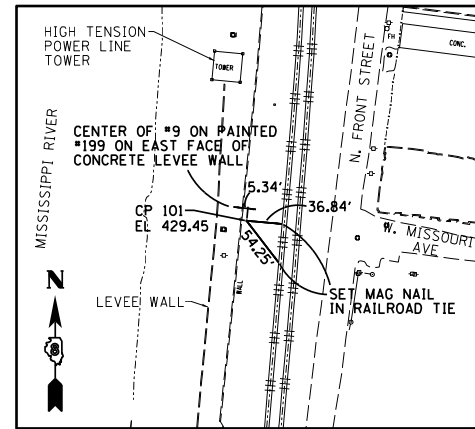
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	12
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				



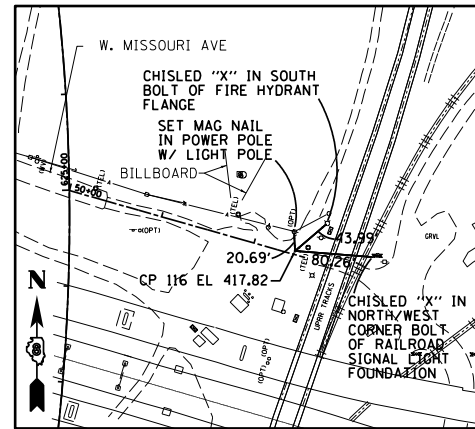
CONTROL POINT #100

FOUND IRON ROD WITH IDOT CAP
FLUSH WITH GROUND
N 14045283.692
E 2451478.950
EL 409.23



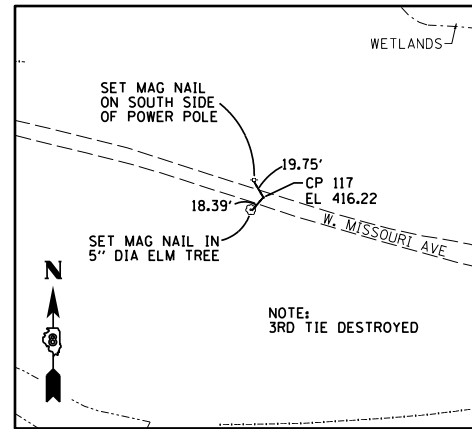
CONTROL POINT #101

FOUND IRON PIN WITH IDOT CAP
FLUSH WITH GROUND
N 14041174.100
E 2447288.901
EL 429.45



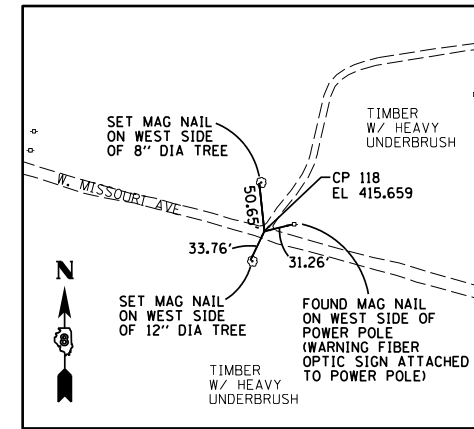
CONTROL POINT #116

FOUND IRON PIN WITH IDOT CAP
FLUSH WITH GROUND
N 14040412.250
E 2450497.479
EL 417.82



CONTROL POINT #117

FOUND IRON PIN WITH IDOT CAP
FLUSH WITH GROUND
N 14040721.310
E 2449459.781
EL 416.22



CONTROL POINT #118

FOUND IRON PIN WITH IDOT CAP
FLUSH WITH GROUND
N 14040899.709
E 2448839.233
EL 415.66

BENCHMARK #101

EL 419.30

FOUND CUT "X" ON THE SOUTH HEX BOLT ON A HYDRANT LOCATED ON THE NORTH SIDE OF MISSOURI AVENUE, ALONG THE WEST SIDE OF THE TRIPLE AMTRAK TRACKS, JUST NORTH OF THE MLK BRIDGE, 0.6 MILES EAST OF FRONT STREET

BENCHMARK #130

EL 426.66

SET CHISLED "X" ON THE NORTH HEX BOLT ON A FIRE HYDRANT LOCATED ON THE SOUTH SIDE OF RIVER PARK DRIVE, AT THE INTERSECTION OF RIVER PARK DRIVE AND DIVISION STREET

BENCHMARK #131

EL 426.59

SET CHISLED "X" ON THE SOUTH HEX BOLT ON A FIRE HYDRANT LOCATED ON THE INTERSECTION OF RIVER PARK DRIVE AND ENTRANCE RAMP OF EADS BRIDGE WEST BOUND

BENCHMARK #132

EL 422.17

SET CHISLED "X" ON THE SOUTH HEX BOLT ON A FIRE HYDRANT LOCATED #225' SOUTH OF THE INTERSECTION OF RIVER PARK DRIVE AND NORTH B STREET, ON THE EAST SIDE OF NORTH B STREET

BENCHMARK #133

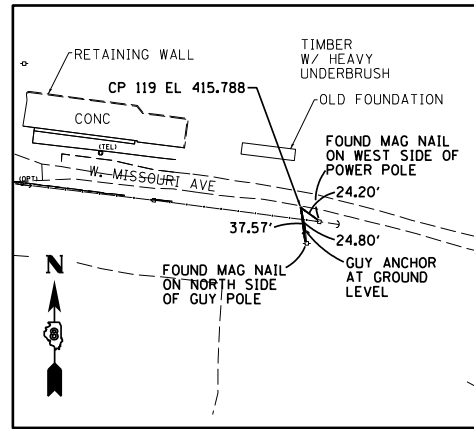
EL 418.37

SET RAILROAD SPIKE IN 2ND POWER POLE WEST OF THE INTERSECTION OF MISSOURI AVE AND NORTH B STREET ON THE SOUTH SIDE OF MISSOURI AVENUE. SET ON NORTH SIDE OF POWER POLE.

BENCHMARK #103

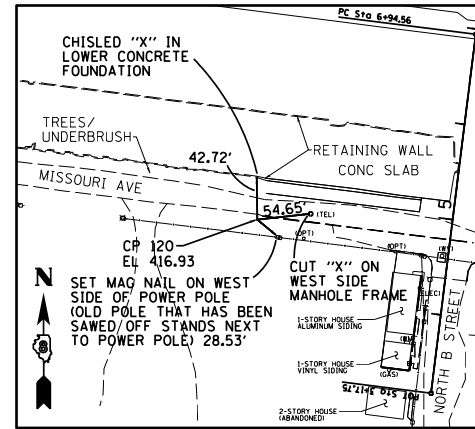
EL 419.23

FOUND CUT "X" ON WEST RIM OF A MANHOLE AT THE INTERSECTION OF FRONT STREET AND SPARSELY TRAVELED WEST END OF MISSOURI AVENUE.



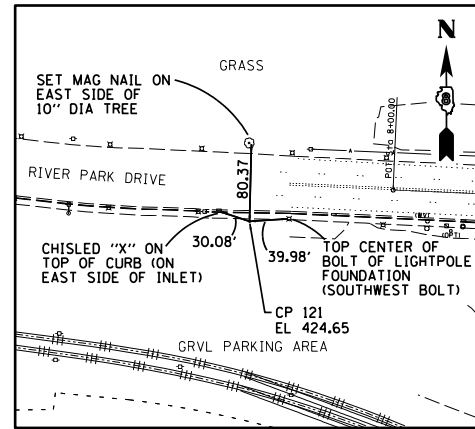
CONTROL POINT #119

FOUND IRON PIN WITH IDOT CAP
FLUSH WITH GROUND
N 14041018.908
E 2448351.921
EL 415.79



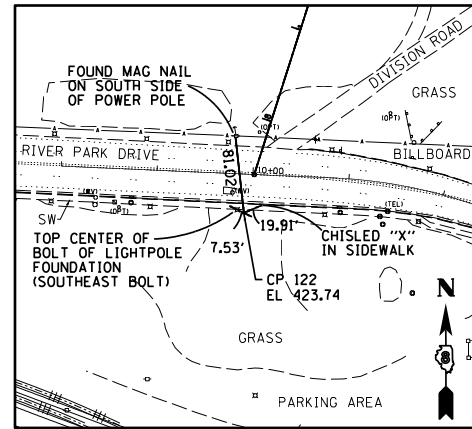
CONTROL POINT #120

SET 5/8" REBAR W/ CAP
FLUSH WITH GROUND
N 14041089.920
E 2447821.011
EL 416.93



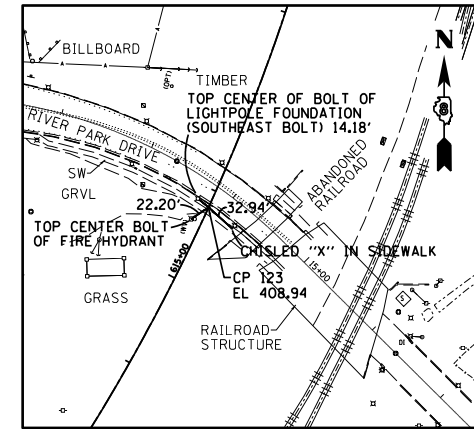
CONTROL POINT #121

SET 5/8" REBAR W/ CAP
FLUSH WITH GROUND
N 14039679.270
E 2449374.533
EL 424.65



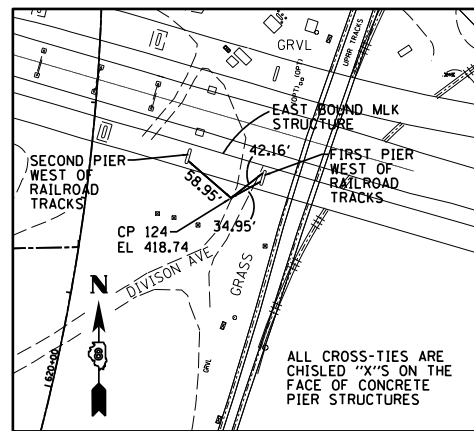
CONTROL POINT #122

SET 5/8" REBAR W/ CAP
FLUSH WITH GROUND
N 14039663.230
E 2449714.358
EL 423.74



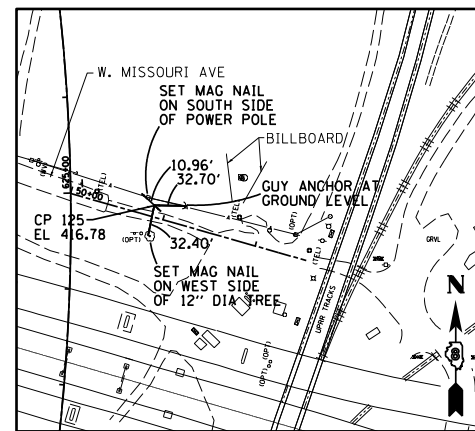
CONTROL POINT #123

SET 5/8" REBAR W/ CAP
FLUSH WITH GROUND
N 14039584.170
E 2450075.058
EL 408.94



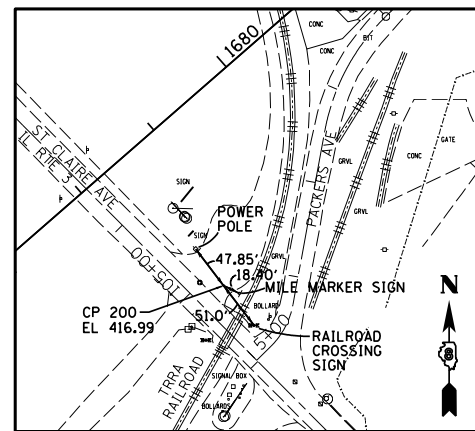
CONTROL POINT #124

SET 5/8" REBAR W/ CAP
FLUSH WITH GROUND
N 14040176.350
E 2450396.257
EL 418.74



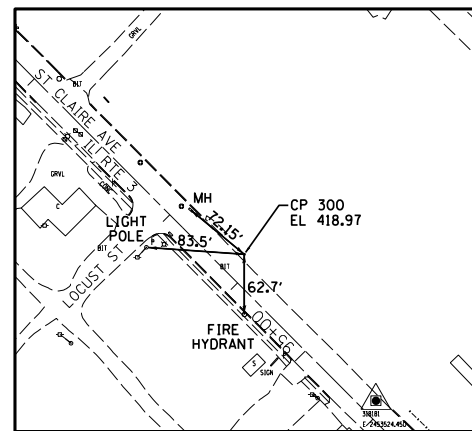
CONTROL POINT #125

SET 5/8" REBAR W/ CAP
FLUSH WITH GROUND
N 14040462.940
E 2450349.614
EL 416.78



CONTROL POINT #200

FOUND IRON ROD WITH IDOT CAP
FLUSH WITH GROUND
N 14044316.431
E 2452780.630
EL 416.99



CONTROL POINT #300

FOUND IRON ROD WITH IDOT CAP
FLUSH WITH GROUND
N 14043700.040
E 2453387.437
EL 418.97



USER NAME : *USER*
DESIGNED - JJO
DRAWN - JJO
CHECKED - PJM
PLOT DATE : *DATE*

REVISED -
REVISED -
REVISED -
REVISED -

DESIGNED - JJO
DRAWN - JJO
CHECKED - PJM
PLOT DATE : 06/26/12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

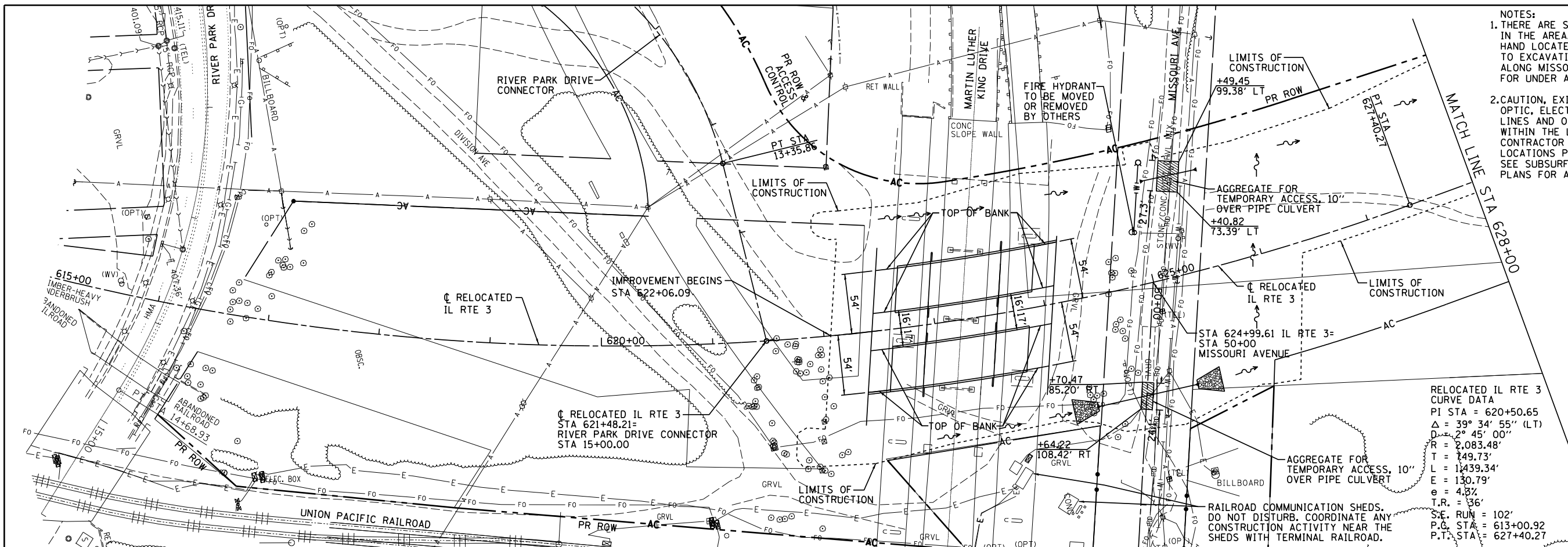
ALIGNMENTS, TIES, AND BENCHMARKS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	13
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				

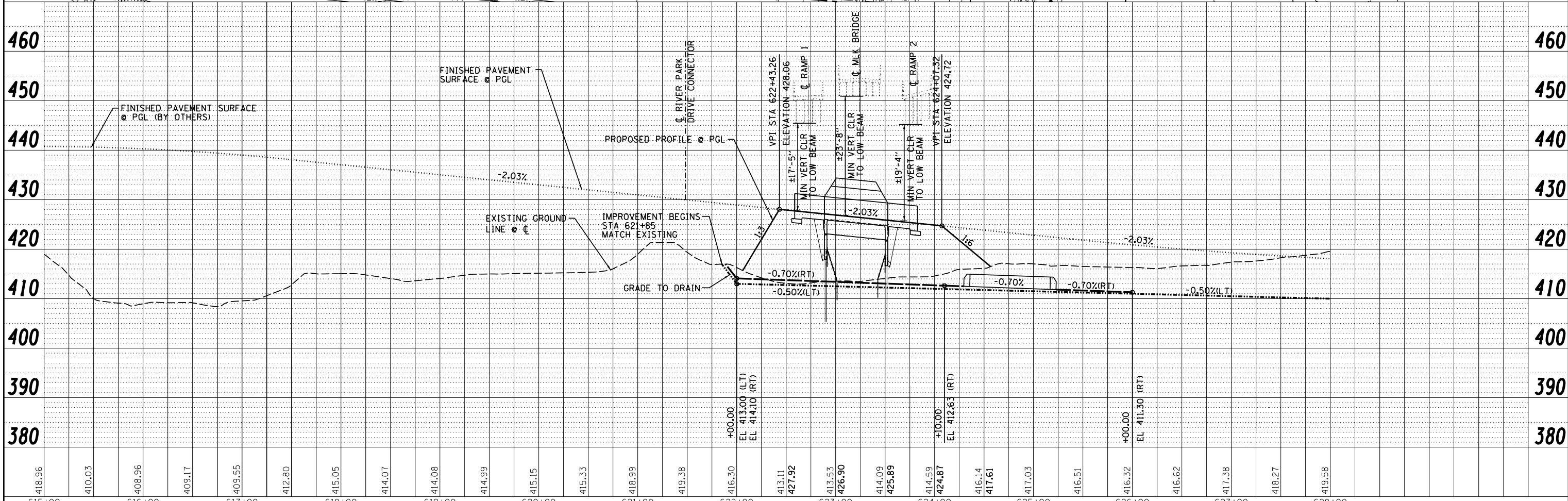
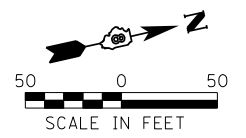
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	PLOTTED		
	CHECKED		
	AT		
	NO. 1		
	NO. 2		
	NO. 3		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	AT		
	NO. 1		
	NO. 2		
	NO. 3		



- NOTES:
1. THERE ARE SEVERAL FIBER OPTICS LINES IN THE AREA. THE CONTRACTOR SHALL HAND LOCATE AND EXPOSE THESE PRIOR TO EXCAVATING FOR THE PROJECT PARTICULARLY ALONG MISSOURI AVE. THIS WORK SHALL BE PAID FOR UNDER ARTICLE 10904.
 2. CAUTION, EXISTING UTILITIES, INCLUDING FIBER OPTIC, ELECTRICAL, TELEPHONE, WATER, AERIAL LINES AND OTHER FACILITIES, ARE LOCATED WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE UTILITY LOCATIONS PRIOR TO CONSTRUCTION. SEE SUBSURFACE UNDERGROUND ENGINEERING PLANS FOR ADDITIONAL INFORMATION.

RELOCATED IL RTE 3
CURVE DATA
 PI STA = 620+50.65
 $\Delta = 39^\circ 34' 55''$ (LT)
 $D = 2^\circ 45' 00''$
 $R = 2,083.48'$
 $T = 749.73'$
 $L = 1,439.34'$
 $E = 130.79'$
 $e = 4.3\%$
 $T.R. = 36'$
 $S.E. RUN = 102'$
 $P.C. STA = 613+00.92$
 $P.T. STA = 627+40.27$



615+00	616+00	617+00	618+00	619+00	620+00	621+00	622+00	623+00	624+00	625+00	626+00	627+00	628+00																		
418.96	410.03	408.96	409.17	409.55	412.80	415.05	414.07	414.08	414.99	415.15	415.33	418.99	419.38	416.30	413.11	427.92	413.53	426.90	414.09	425.89	414.59	424.87	416.14	417.61	417.03	416.51	416.32	416.62	417.38	418.27	419.58

Farnsworth GROUP INC.
 2708 McGraw Drive
 Bloomington, Illinois 61704
 309.663-8435, 309.663-1571 fax

USER NAME : *USER*	DESIGNED - JJO	REVISED -
	DRAWN - JJO	REVISED -
PLOT SCALE : *SCALE*	CHECKED - PJM	REVISED -
PLOT DATE : *DATE*	DATE - 06/26/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

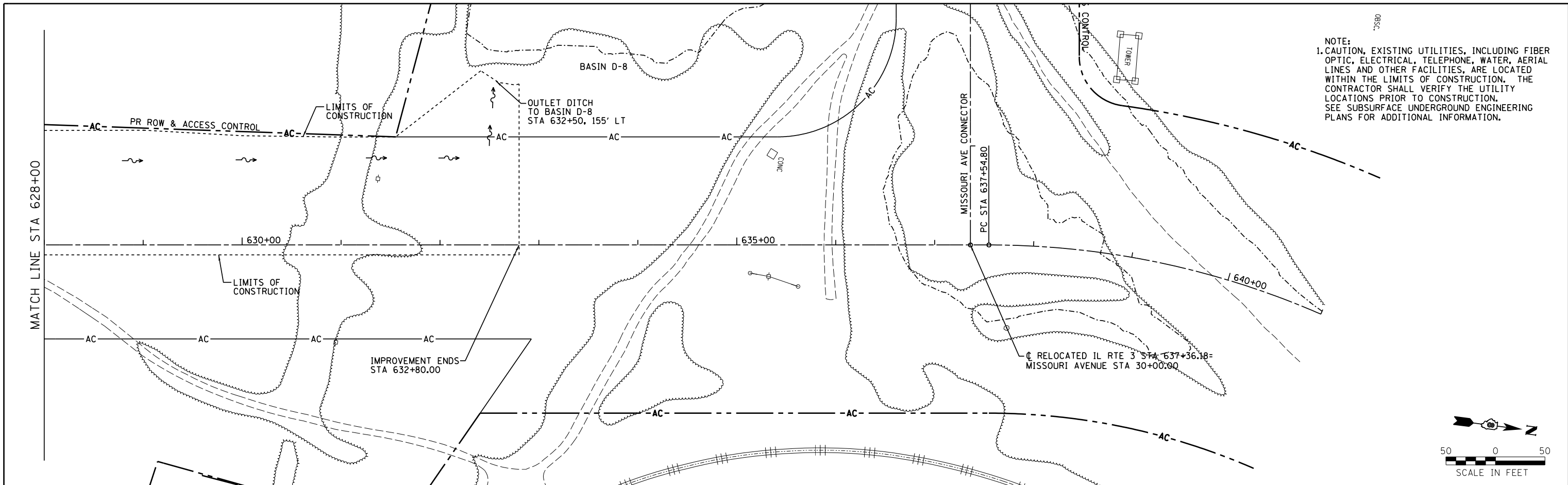
PLAN & PROFILE

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 615+00 TO STA. 628+00

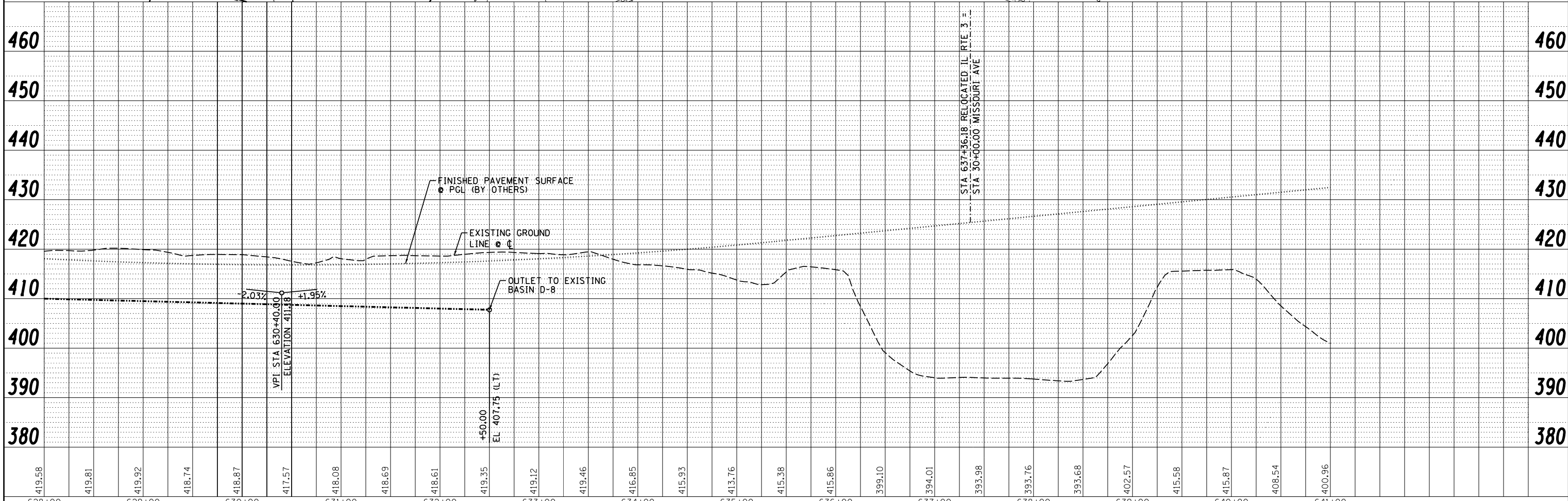
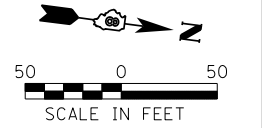
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	14
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	AT	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	AT	
	FILE NAME	
	NO.	



NOTE:
 1. CAUTION, EXISTING UTILITIES, INCLUDING FIBER OPTIC, ELECTRICAL, TELEPHONE, WATER, AERIAL LINES AND OTHER FACILITIES, ARE LOCATED WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE UTILITY LOCATIONS PRIOR TO CONSTRUCTION. SEE SUBSURFACE UNDERGROUND ENGINEERING PLANS FOR ADDITIONAL INFORMATION.



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PLOT DATE : *DATE*	DATE - 06/26/12	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN & PROFILE

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 628+00 TO STA. 641+00

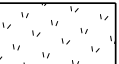
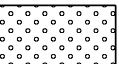
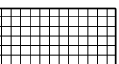
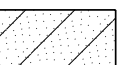


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				





EROSION AND SEDIMENT CONTROL

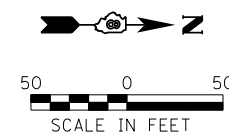
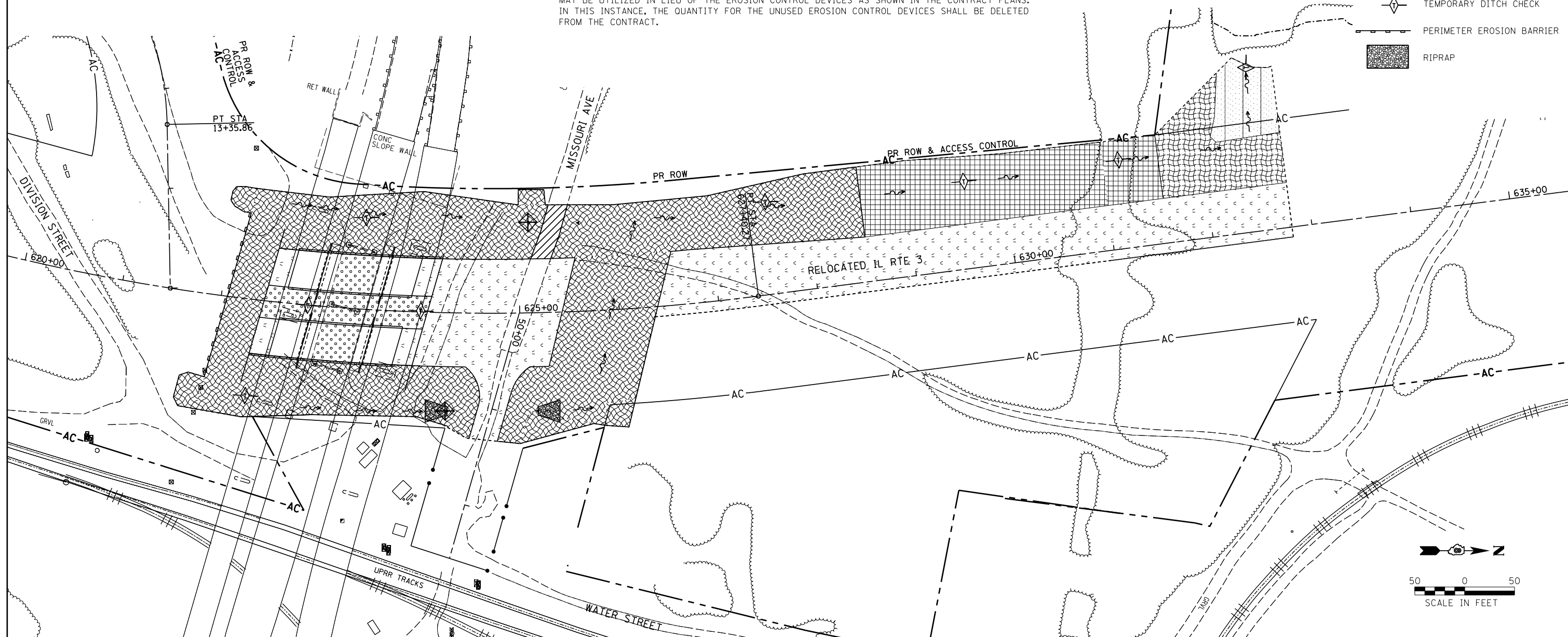
1. THE PURPOSE OF THE EROSION AND SEDIMENT CONTROL MEASURES INCLUDED FOR THIS PROJECT IS TO LIMIT THE SEDIMENT POLLUTION IMPACT, OF ANY STORM WATER DISCHARGES THAT ORIGINATE ON THIS SITE OR OFF-SITE FLOWS THAT FLOW OVER THE DISTURBED AREAS, ON DOWNSTREAM AREAS.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SEDIMENT TRANSPORTED OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
3. TO THE MAXIMUM EXTENT POSSIBLE, ALL FLOWS ORIGINATING OFF THE CONSTRUCTION SITE WILL BE DIVERTED AROUND DISTURBED AREAS OR WILL BE CONVEYED THROUGH THE SITE IN A MANNER THAT UNTREATED ON-SITE RUNOFF DOES NOT MIX WITH THE OFF-SITE RUNOFF.
4. ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITY.
5. A MAXIMUM OF 10 ACRES MAY BE IN SOME STAGE OF GRADING/DISTURBANCE AT A SINGLE TIME. ADDITIONAL AREAS (UP TO 10 ACRES) MAY BE CLEARED BUT WILL NOT BE STRIPPED OF VEGETATION UNTIL THE GRADED/DISTURBED AREAS HAVE BEEN PROTECTED FROM EROSION THROUGH INSTALLATION OF EITHER TEMPORARY OR PERMANENT MEASURES (PERMANENT MEASURES BY OTHERS). WHENEVER POSSIBLE, THE GRADING WILL BE COMPLETED TO THE DESIGN GRADE AND THE PERMANENT VEGETATION PLAN (BY OTHERS) IMPLEMENTED PRIOR TO STARTING GRADING ACTIVITIES ON THE NEXT SITE.

6. DISTURBED AREAS ARE TO BE PROTECTED FROM EROSION IN A TIMELY MANNER. UPON COMPLETION OF GRADING OR CONSTRUCTION, THE AREA WILL BE STABILIZED (USING PERMANENT MEASURES WHEN POSSIBLE - PERMANENT MEASURES BY OTHERS). TEMPORARY STABILIZATION THROUGH USE OF GROUND COVER, MULCHING, TEMPORARY SEEDING, OR OTHER APPROVED MEASURES WILL BE INSTALLED WHENEVER SITE DEVELOPMENT WORK, GRADING OR OTHER EARTH DISTURBING ACTIVITIES CEASE TO BE CONTINUOUS FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THE 7/14 DAY REQUIREMENT IS TAKEN TO MEAN THAT THE STABILIZATION OPERATION IS COMPLETE OR NEARING COMPLETION IN THE DEFINED TIME.
7. THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES AS RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS. THIS PERSON IS TO BE KNOWLEDGEABLE ABOUT INSTALLATION AND MAINTENANCE OF THE REQUIRED MEASURES. THIS EMPLOYEE IS TO HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTIONS CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN GIVEN BY THE ENGINEER. ALL MEASURES WILL BE INSPECTED BY THIS INDIVIDUAL AND THE ENGINEER ON A REGULAR BASIS (AT LEAST ONCE EVERY 7 DAYS) AND AFTER RAINFALL EVENTS GREATER THAN 1/2 INCH.
8. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AT THE CONTRACTOR'S EXPENSE.
9. THE RESIDENT ENGINEER SHALL HAVE FINAL DETERMINATION OF THE PLACEMENT AND LOCATION OF THE PERIMETER EROSION BARRIER.
10. SEE EROSION AND SEDIMENT CONTROL PLANS FOR PLACEMENT OF ALL EROSION AND SEDIMENT CONTROL PAY ITEMS.
11. AT THE DIRECTION OF THE ENGINEER, ANY SUITABLE EXISTING EROSION CONTROL DEVICES (SUCH AS PERIMETER EROSION BARRIER) THAT IS LEFT IN PLACE FROM A PREVIOUS (OR CONCURRENT) CONTRACT MAY BE UTILIZED IN LIEU OF THE EROSION CONTROL DEVICES AS SHOWN IN THE CONTRACT PLANS. IN THIS INSTANCE, THE QUANTITY FOR THE UNUSED EROSION CONTROL DEVICES SHALL BE DELETED FROM THE CONTRACT.

LEGEND

-  DURING CONSTRUCTION TEMPORARY EROSION CONTROL SEEDING SHALL BE PLACED .
-  DURING CONSTRUCTION TEMPORARY EROSION CONTROL SEEDING SHALL BE PLACED, IN ADDITION, AT CONCLUSION OF THE CONSTRUCTION - SEEDING, CLASS 2A & MULCH, METHOD 2
-  DURING CONSTRUCTION TEMPORARY EROSION CONTROL SEEDING SHALL BE PLACED, IN ADDITION, AT CONCLUSION OF THE CONSTRUCTION - SEEDING, CLASS 3A & HEAVY DUTY EROSION CONTROL BLANKET
-  DURING CONSTRUCTION TEMPORARY EROSION CONTROL SEEDING SHALL BE PLACED, IN ADDITION, AT CONCLUSION OF THE CONSTRUCTION - SEEDING, CLASS 4B
-  DURING CONSTRUCTION TEMPORARY EROSION CONTROL SEEDING SHALL BE PLACED, IN ADDITION, AT CONCLUSION OF THE CONSTRUCTION - SEEDING, CLASS 3A & EROSION CONTROL BLANKET
-  STABILIZED CONSTRUCTION ENTRANCE (20'x75' TYP)

-  INLET & PIPE PROTECTION
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER
-  RIPRAP



Farnsworth GROUP INC.
2700 McGraw Drive
Bloomington, Illinois 61704
309.663-8435, 309.663-1571 fax

USER NAME : *USER*	DESIGNED - JJ0	REVISED -
PLOT SCALE : *SCALE*	DRAWN - JJ0	REVISED -
PLOT DATE : *DATE*	CHECKED - PJM	REVISED -
	DATE - 06/26/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

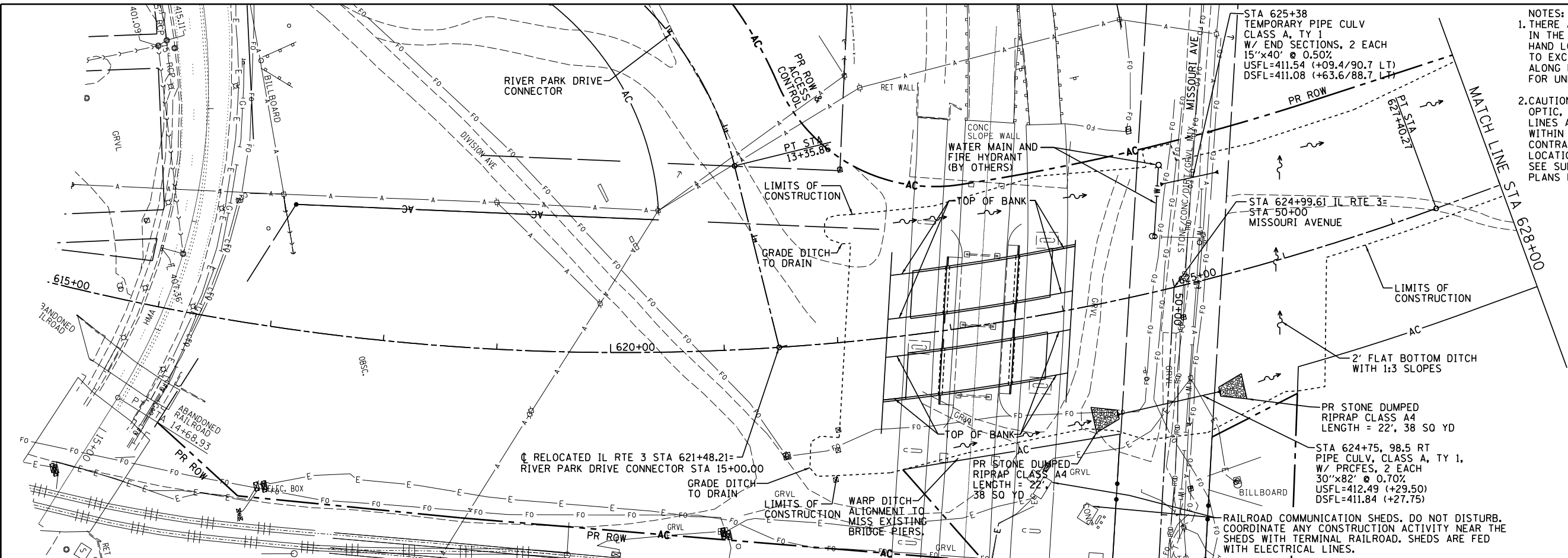
EROSION AND SEDIMENT CONTROL PLAN

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

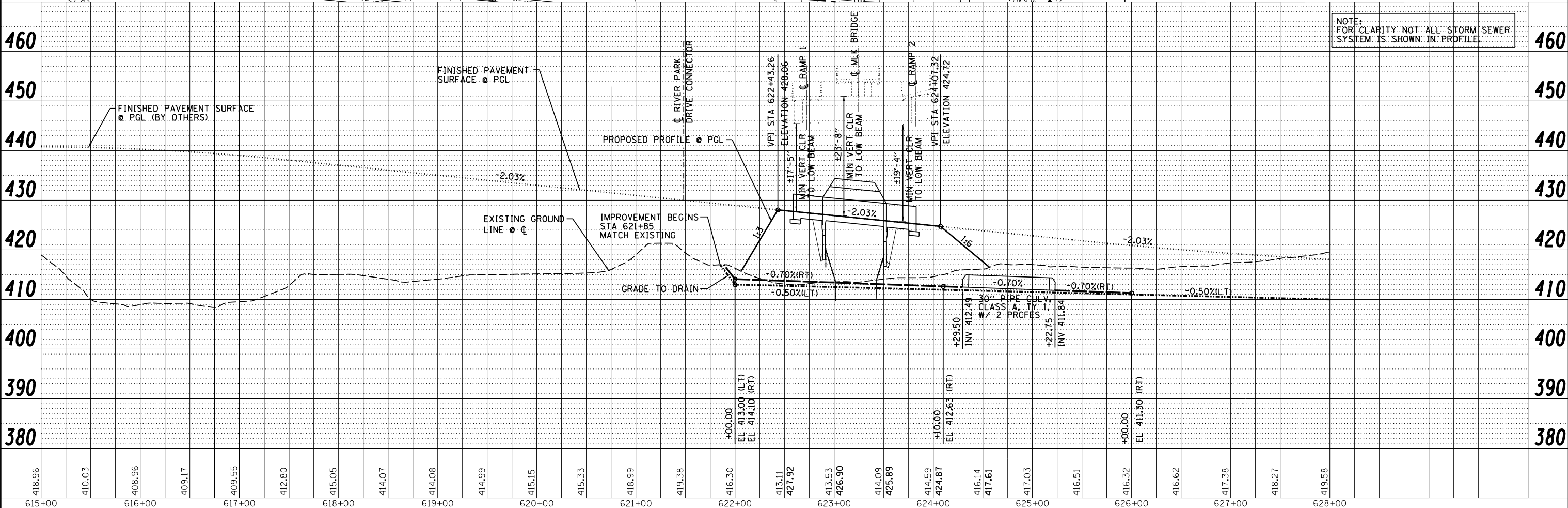
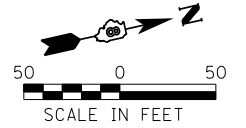
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	16
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	AT		
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	NO. 2		
	NO. 3		
	NO. 4		
	NO. 5		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	AT		
	NO. 1		
	NO. 2		
	NO. 3		
	NO. 4		
	NO. 5		



- NOTES:
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NOTE: FOR CLARITY NOT ALL STORM SEWER SYSTEM IS SHOWN IN PROFILE.



USER NAME	: *USER*	DESIGNED	- JJO	REVISED	-
		DRAWN	- JJO	REVISED	-
PLOT SCALE	: *SCALE*	CHECKED	- PJM	REVISED	-
PLOT DATE	: *DATE*	DATE	- 06/26/12	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN & PROFILE

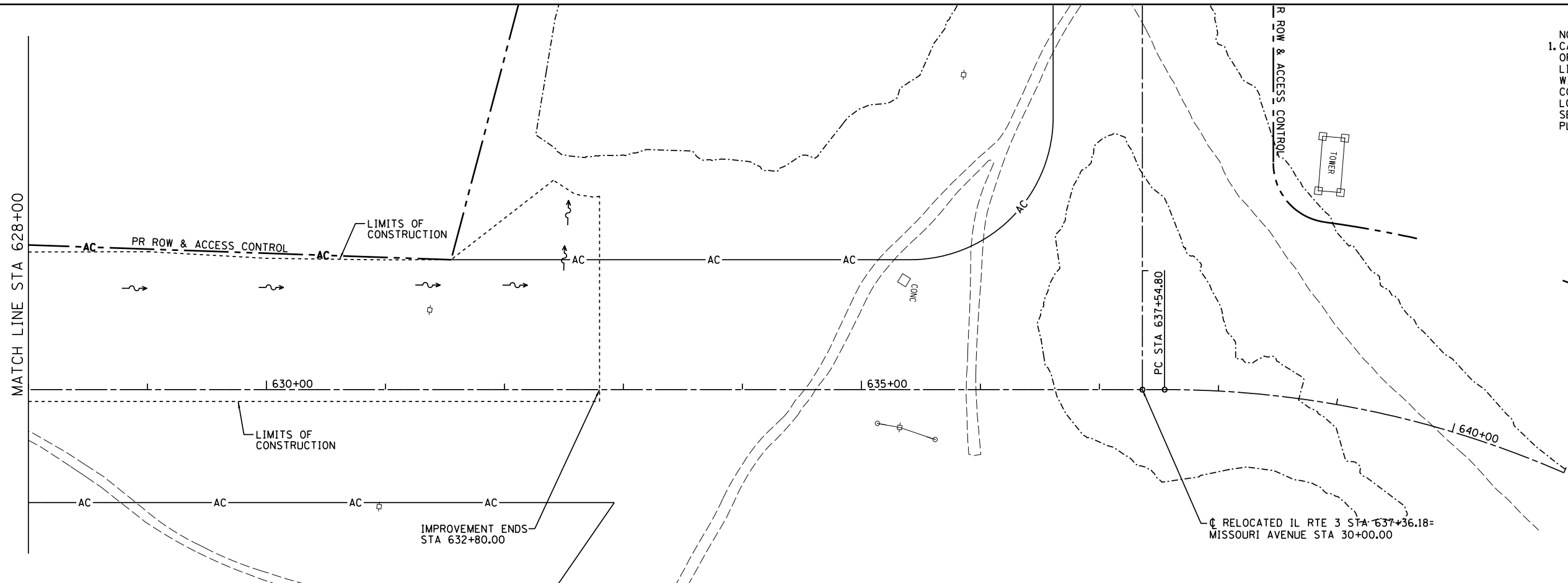
SCALE: 1"=50' SHEET NO. OF SHEETS STA. 615+00 TO STA. 628+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	17
CONTRACT NO. 76F69				

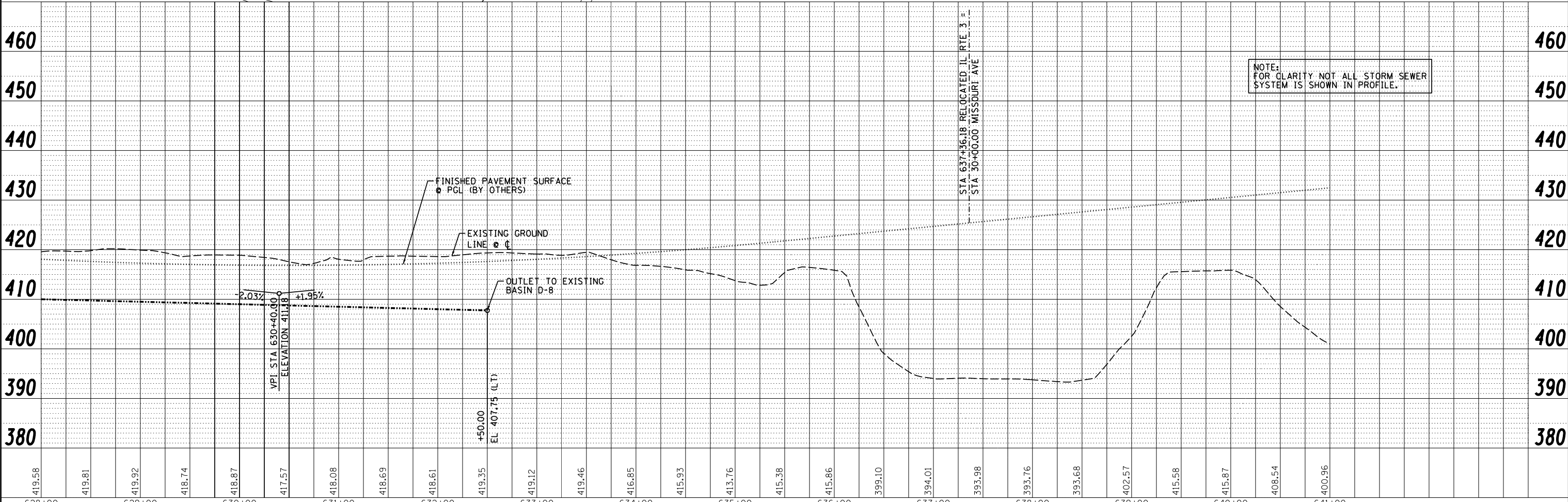
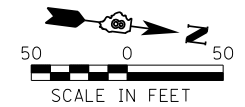
ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTE BOOK		
	CHECKED		
	AT		
	FILE NAME		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE		
	NOT THIS OFFICE		
	NO.		



NOTES:
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419.58	419.81	419.92	418.74	418.87	417.57	418.08	418.69	418.61	419.35	419.12	419.46	416.85	415.93	413.76	415.38	415.86	399.10	394.01	393.98	393.76	393.68	402.57	415.58	415.87	408.54	400.96	
628+00	629+00	630+00	631+00	632+00	633+00	634+00	635+00	636+00	637+00	638+00	639+00	640+00	641+00														

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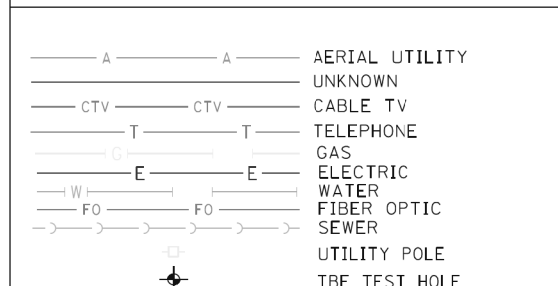
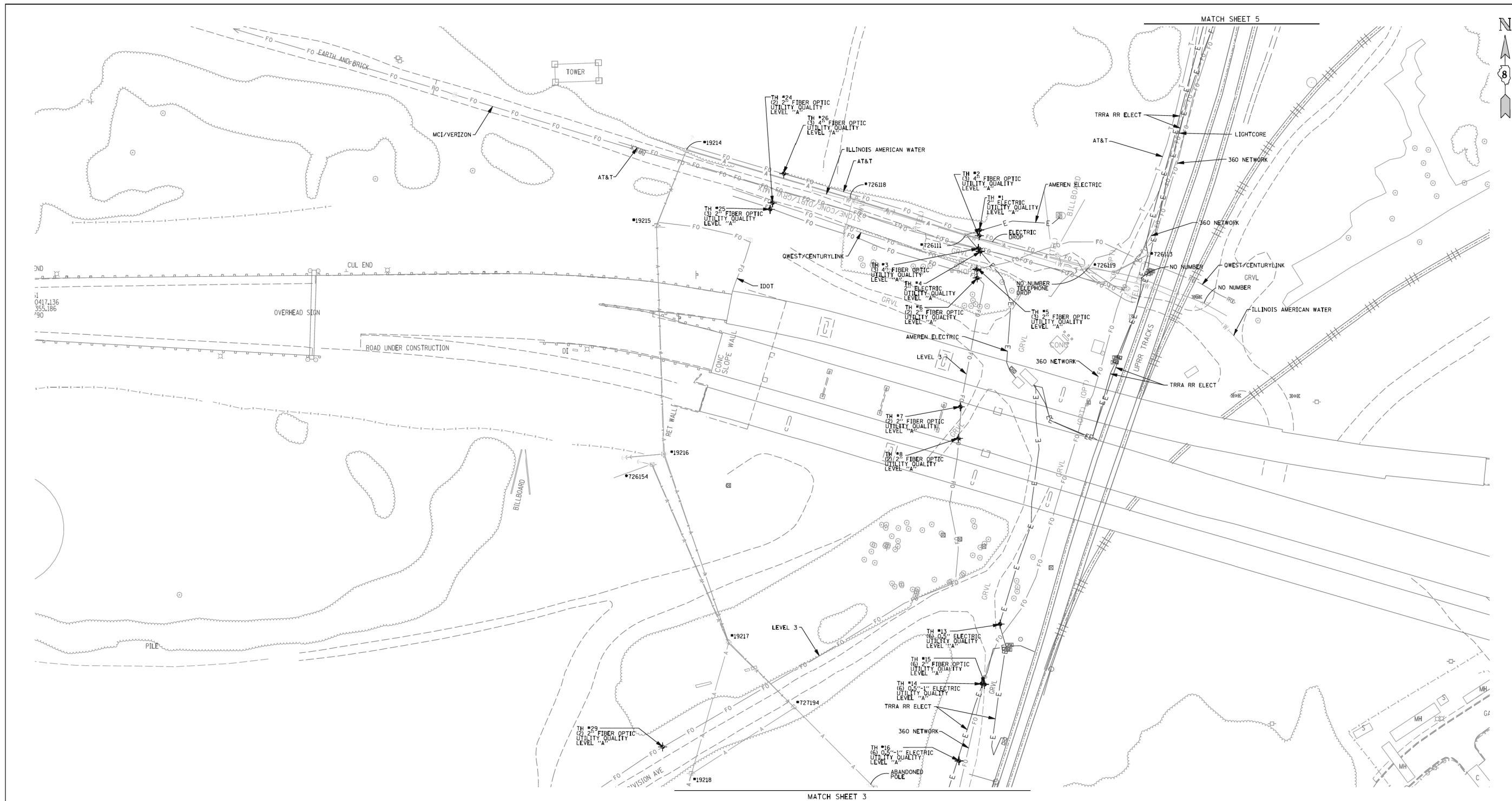
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	DRAWN - JJ0	REVISED -
PLOT SCALE - *SCALE*	CHECKED - PJM	REVISED -
PLOT DATE - *DATE*	DATE - 06/26/12	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRAINAGE PLAN & PROFILE

SCALE: 1"=50' SHEET NO. OF SHEETS STA. 628+00 TO STA. 641+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	18
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				



Utility Quality Level "A" : Visually Verified Test Hole
 Utility Quality Level "B" : Designating/Non Visually Verified Test Hole
 Utility Quality Level "C" : Research with Survey
 Utility Quality Level "D" : Records Research

DESIGNED <i>TF</i>	REVISED
DRAWN <i>KLC</i>	2/13/12 ADDED TEST HOLE # 1-32
CHECKED <i>KFS</i>	REVISED
DATE 1/23/12	REVISED

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's Quality Level "B" SUE field investigation was performed December 2011. Cardno TBE's Quality Level "A" SUE field investigation was performed January 27, 2012 through February 9, 2012. Changes to utilities after December 2011 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.

Cardno TBE
 CIVIL ENGINEERING • TRANSPORTATION • ENVIRONMENTAL
 • PLANNING • UTILITY ENGINEERING/LOCATING

TBE Job No. IL09500701, 619
 SUE Plan Page: 4 of 9

USER NAME = *USER*	DESIGNED - JJO	REVISED -
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PLOT DATE = *DATE*	CHECKED - PJM	REVISED -
	DATE - 06/26/12	REVISED -

DESIGNED - JJO	REVISED -
DRAWN - JJO	REVISED -
CHECKED - PJM	REVISED -
DATE - 06/26/12	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUBSURFACE UNDERGROUND ENGINEERING PLANS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	19
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				

Farnsworth GROUP, INC.
 2709 McGraw Drive
 Bloomington, Illinois 61704
 309/663-8435, 309/663-1571 fax

DESIGNED - JJO
 DRAWN - JJO
 CHECKED - PJM
 DATE - 06/26/12

REVISED -
 REVISED -
 REVISED -
 REVISED -

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

ILLINOIS FED. AID PROJECT

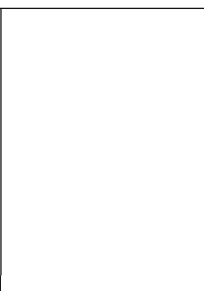


— A — A —	AERIAL UTILITY UNKNOWN
— CTV — CTV —	CABLE TV
— T — T —	TELEPHONE
— G — G —	GAS
— E — E —	ELECTRIC
— W — W —	WATER
— FO — FO —	FIBER OPTIC
— S — S —	SEWER
— U — U —	UTILITY POLE
⊕	TBE TEST HOLE

DESIGNED	TF	REVISED	
DRAWN	KLC	REVISED	
CHECKED	KFS	REVISED	
DATE	1/23/12	REVISED	

Utilities shown on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. Cardno TBE's Quality Level "B" SUE field investigation was performed December 2011. Changes to utilities after December 2011 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.



TBE Job No. IL09500701
SUE Plan Page 5 of 9

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		ST. Clair		

Contract No. D-98-0059-08

FED. ROAD DIST. NO. ILLINOIS IDOT Project No.

Utility Quality Level "A" : Visually Verified Test Hole
Utility Quality Level "B" : Designating/Non Visually Verified Test Hole
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	JJO	REVISED	-
DRAWN	JJO	REVISED	-
CHECKED	PJM	REVISED	-
DATE	06/26/12	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RELOCATED IL RT. 3 & RELOCATED I70 & MRB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	20

CONTRACT NO. 76F69

ILLINOIS FED. AID PROJECT

USER NAME	= \$USER*	DESIGNED	- JJO	REVISED	-
PLOT SCALE	= \$SCALE*	DRAWN	- JJO	REVISED	-
PLOT DATE	= \$DATE*	CHECKED	- PJM	REVISED	-
		DATE	- 06/26/12	REVISED	-

DESIGNED	JJO	REVISED	-
DRAWN	JJO	REVISED	-
CHECKED	PJM	REVISED	-
DATE	06/26/12	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUBSURFACE UNDERGROUND ENGINEERING PLANS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	20

CONTRACT NO. 76F69

ILLINOIS FED. AID PROJECT

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	20

CONTRACT NO. 76F69

ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	DATE
	PLOTTED	BY
	CHECKED	
	ALIGNED	
	MAX	
	CADD	
	FILE	
	NAME	
	NO.	

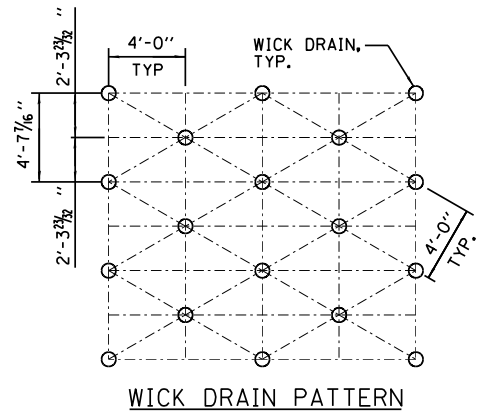
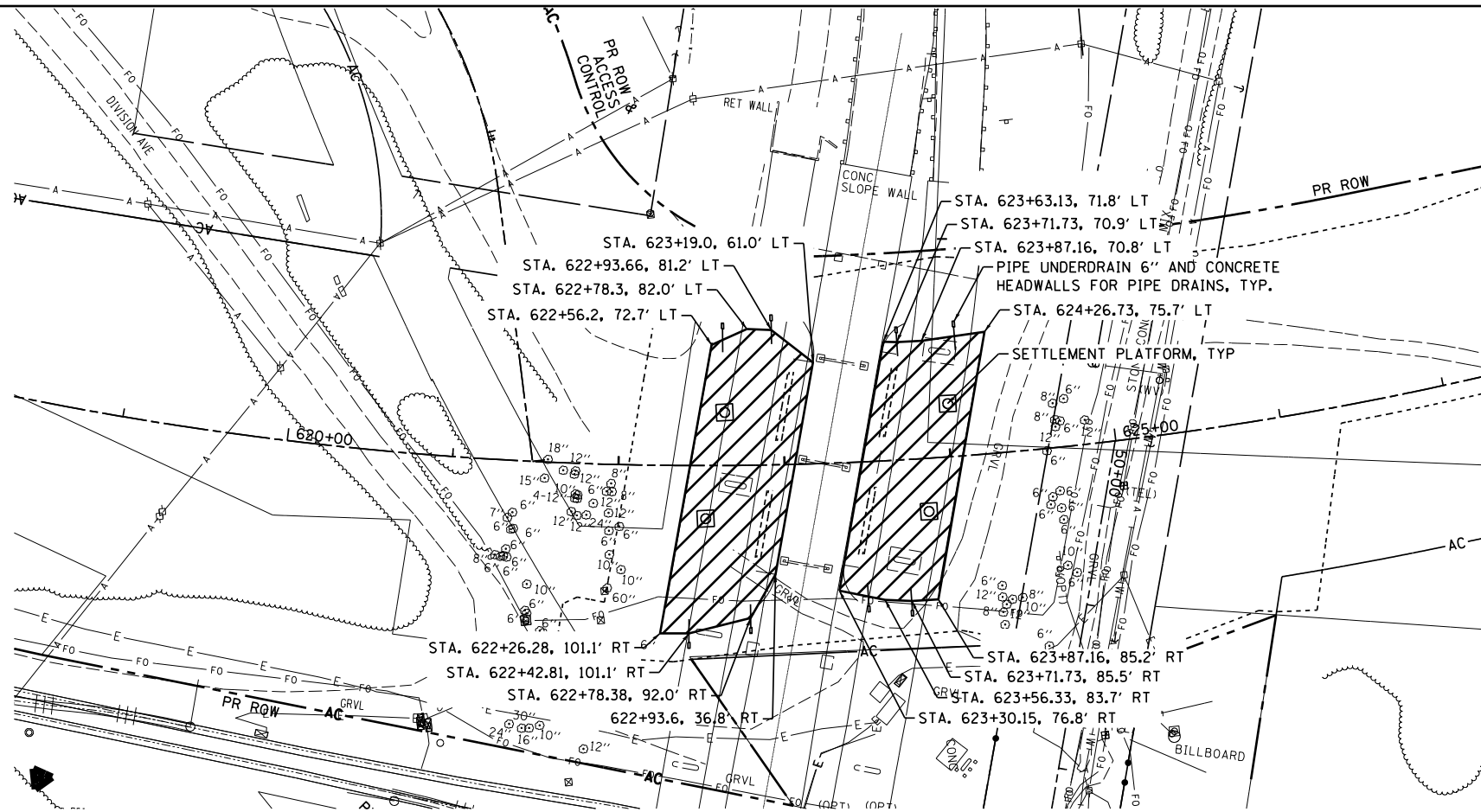


TABLE 1

STATION	DRAINAGE LAYER	
	BOTTOM	TOP
622+42.81	417.00	419.00
622+63.12	416.00	418.00
622+78.38	415.00	417.00
622+93.66	415.00	417.00
623+06.25	415.00	417.00
623+56.33	415.00	417.00
623+71.73	415.00	417.00
623+87.16	415.50	417.50
624+07.77	416.50	418.50

SETTLEMENT PLATFORM LOCATIONS

- STA. 622+64.09, 32' LT
- STA. 624+00.55, 32' LT
- STA. 622+52.43, 32' RT
- STA. 623+84.98, 32' RT

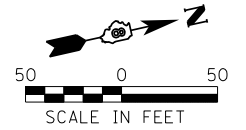


NOTES:

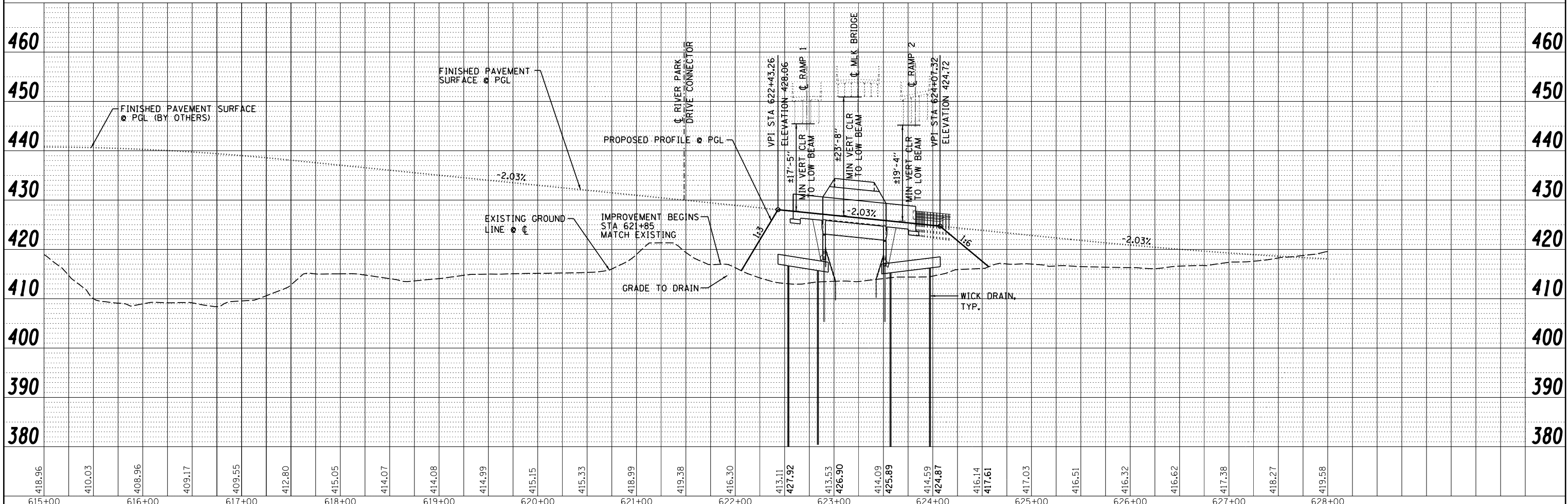
- 1.) THE 4-FOOT SPACING PATTERN FOR WICK DRAINS WILL REQUIRE 45 DAYS FOR 90% CONSOLIDATION.
- 2.) PLACE WICK DRAINS A MINIMUM 10 FEET INSIDE THE LIMITS OF THE SAND DRAINAGE BLANKET. INSTALL BOTTOM OF WICK DRAINS TO ELEV. 380.00
- 3.) PIPE DRAINS USED TO OUTLET THE SAND DRAINAGE BLANKET SHALL BE CAPPED AT THE UPSTREAM END AND SHALL HAVE A CONCRETE HEADWALL FOR PIPE DRAINS AT THE EMBANKMENT SIDESLOPE. THE ADDITIONAL COST OF THE CAP SHALL BE INCLUDED IN THE PIPE DRAIN ITEMS. THE HEADWALLS SHALL BE PAID FOR SEPARATELY.
- 4.) THE CONTRACTOR SHALL INSTALL SETTLEMENT PLATFORMS AT THE LOCATIONS AS SHOWN IN THE PLANS AND NOTED BELOW. FURNISHING, INSTALLING AND MAINTAINING THE SETTLEMENT PLATFORMS SHALL BE IN ACORDANCE WITH ARTICLE 204.06 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THE WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR FURNISHED EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 5.) CAUTION, EXISTING UTILITIES, INCLUDING FIBER OPTIC, ELECTRICAL, TELEPHONE, WATER, AERIAL LINES AND OTHER FACILITIES, ARE LOCATED WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE UTILITY LOCATIONS PRIOR TO CONSTRUCTION. SEE SUBSURFACE UNDERGROUND ENGINEERING PLANS FOR ADDITIONAL INFORMATION.

LEGEND

LIMITS OF SAND DRAINAGE BLANKET (SEE TABLE 1 FOR ELEVATIONS)



PROFILE	SURVEYED	DATE
	GRADES	BY
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	CHFD	
	NO.	



USER NAME : *USERS*
DESIGNED - JJO
DRAWN - JJO
CHECKED - PJM
DATE - 06/26/12

REVISD -
REVISD -
REVISD -
REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

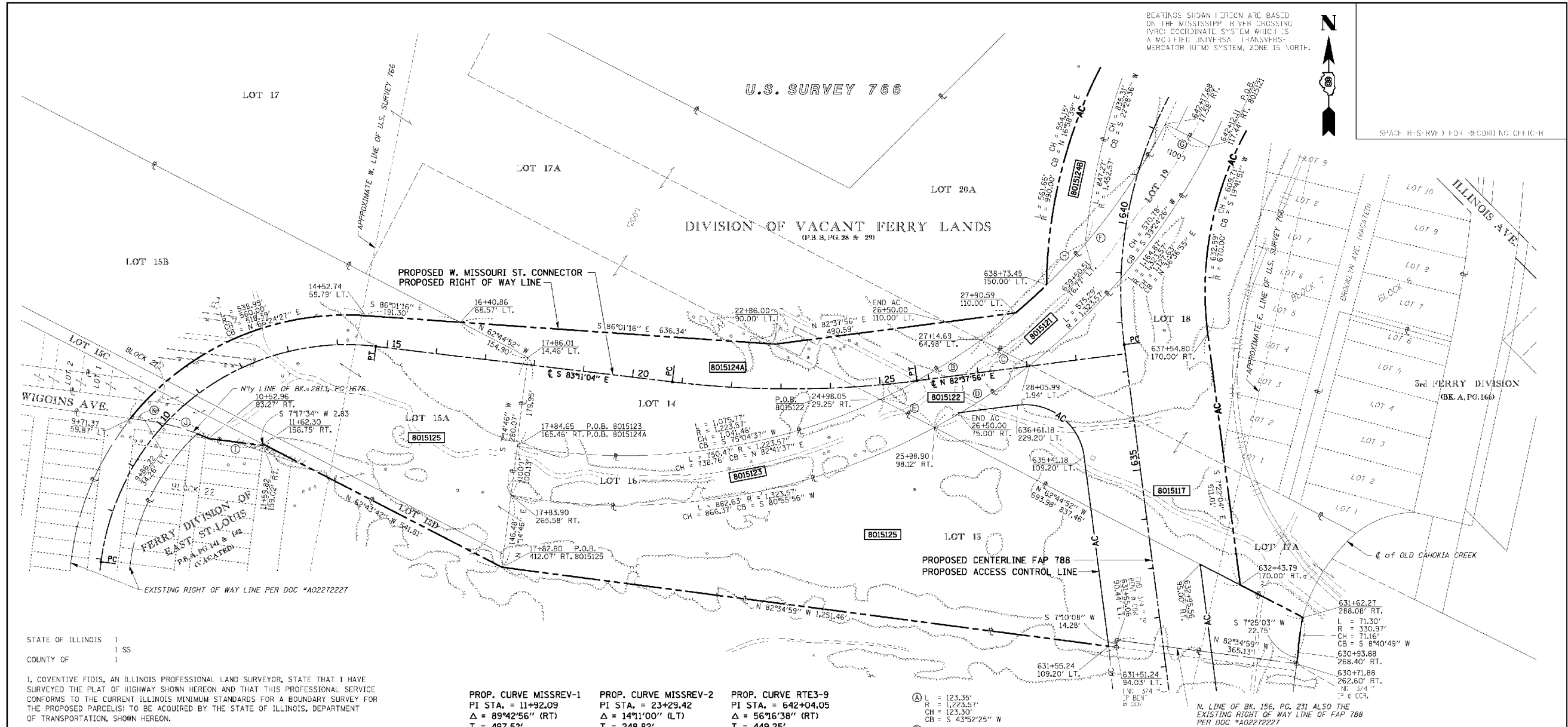
GROUND IMPROVEMENT PLAN & PROFILE

SCALE: SHEET NO. OF SHEETS STA. 615+00 TO STA. 628+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	21

CONTRACT NO. 76F69
ILLINOIS FED. AID PROJECT

PART OF U.S. SURVEY 766 & SEC. 11 & 12, T2N, R10W, OF THE 3RD PM, ST. CLAIR COUNTY, ILLINOIS



BEARINGS SHOWN IN DASHED ARC BASED ON THE MISSISSIPPI RIVER CROSSING (NAD 83) COORDINATE SYSTEM WHICH IS A MERCATOR (UTM) SYSTEM, ZONE 15 NORTH.



SPACE IS RESERVED FOR RECORDING CHANGES

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: 11/30/2012



- PROP. CURVE MISSREV-1
PI STA. = 11+92.09
Δ = 89°42'56" (RT)
T = 497.52'
L = 782.92'
R = 500.00'
C = 705.35'
C.B. = N 51°57'28" E
P.C. STA = 6+94.56
P.T. STA = 14+77.48
- PROP. CURVE MISSREV-2
PI STA. = 23+29.42
Δ = 14°11'00" (LT)
T = 248.82'
L = 825.07'
R = 2,000.00'
C = 493.83'
C.B. = N 89°43'26" E
P.C. STA = 20+80.60
P.T. STA = 25+75.70
- PROP. CURVE RTE3-9
PI STA. = 642+04.05
Δ = 56°16'38" (RT)
T = 449.25'
L = 825.07'
R = 840.00'
C = 792.30'
C.B. = N 20°46'15" E
P.C. STA = 637+54.80
P.T. STA = 645+79.87

- A L = 123.35'
R = 1,223.57'
CH = 123.30'
CB = S 43°52'25" W
- B L = 237.04'
R = 1,223.57'
CH = 236.67'
CB = N 59°34'22" E
- C L = 230.29'
R = 1,323.57'
CH = 230.00'
CB = S 56°50'37" W
- D L = 62°44'52" W 110.95'
- E L = 578.04'
R = 1,223.57'
CH = 572.68'
CB = N 40°29'21" E
- F L = 114.04'
R = 1,223.57'
CH = 114.00'
CB = S 43°16'22" W
- G L = 133.83'
R = 441.00'
CH = 133.32'
CB = N 74°03'49" W
- H L = 133.83'
R = 441.00'
CH = 133.32'
CB = N 74°03'49" W
- I L = 133.83'
R = 441.00'
CH = 133.32'
CB = N 74°03'49" W
- J L = 133.83'
R = 441.00'
CH = 133.32'
CB = N 74°03'49" W
- K L = 133.83'
R = 441.00'
CH = 133.32'
CB = N 74°03'49" W

PARCEL NO.	OWNER	C AL HOLDING			REMAINDER			AS PER A			PERMANENT AX VALUE	PROPRIETARY ACQUISITION
		AC-FS	AC-FS	SG	AC-FS	AC-FS	SD	PERMANENT	TEMPORARY	EASEMENT PURPOSE		
8015-17	KANSAS CITY SOUTH-RN RAILWAY CO. SC 6275	27,830.00	8,532.5	371,675	19,297.5	FE 1,8732	FE 01,555	ROAD CONSTRUCTION	SEE NOTE A			
8015-21	KANSAS CITY SOUTH-RN RAILWAY CO., 1/2 INTEREST & KANSAS CITY SOUTH-RN RAILWAY CO., 1/2 INTEREST SC 6268	1,323.37	1,323.37	57,659	0.0000	N/A	N/A	N/A		CI-110-5-4-004		
8015-22	KANSAS CITY SOUTH-RN RAILWAY CO., 1/2 INTEREST & KANSAS CITY SOUTH-RN RAILWAY CO., 1/2 INTEREST SC 6269	0.1560	0.1560	23,448	0.0000	N/A	N/A	N/A		CI-110-5-4-002		
8015-23	KANSAS CITY SOUTH-RN RAILWAY CO., 1/2 INTEREST & KANSAS CITY SOUTH-RN RAILWAY CO., 1/2 INTEREST SC 6251	1,875.1	1,875.1	8,681	0.0000	N/A	N/A	N/A		CI 110 5-4 004		
8015-24	CRIS CROSS CO., L.L.C. SC-6764	36,920.00	4-41,324	4-178,703	3,0256	N/A	N/A	N/A		CI 110 4-0 003		
8015-25	WIGGINS FERRY COMPANY SC-6710, SC-6711, SC-6424	N/A	13,938	601,246	N/A	N/A	N/A	N/A	SEE NOTE B			

NOTE A
01-12-0-513-032
01-12-0-515-003
01-12-0-516-004
01-12-0-517-005
01-12-0-518-006
01-12-0-519-007
01-12-0-520-008
01-12-0-521-009

NOTE B
01-12-0-404-004
01-12-0-405-005
01-12-0-406-006
01-12-0-407-007



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 788
SECTION 520-1-2HVB, 520-1-2HVB-1
ST. CLAIR COUNTY
JOB NO. R-98-015-00
STATION 631+00 TO STATION 642+00

SCALE: 1" = 100'

SHEET 5 OF 10

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.
788	520-1-2B	ST. CLAIR	94	24

CONTRACT NO. 76F69

ILLINOIS FED. AID PROJECT

FAP ROUTE 788 CONSTRUCTION SECTION 520-1-2HVB, 520-1-2HVB-1 ST. CLAIR COUNTY JOB # R-98-015-00 PART OF U.S. SURVEY 766 & SEC. 11 & 12, T. 2 N., R. 10 W. OF THE 3RD P.M.



USER NAME = *USER*	DESIGNED - JJO	REVISED -
PLOT SCALE = *SCALE*	DRAWN - JJO	REVISED -
PLOT DATE = *DATE*	CHECKED - PJM	REVISED -
	DATE - 06/26/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

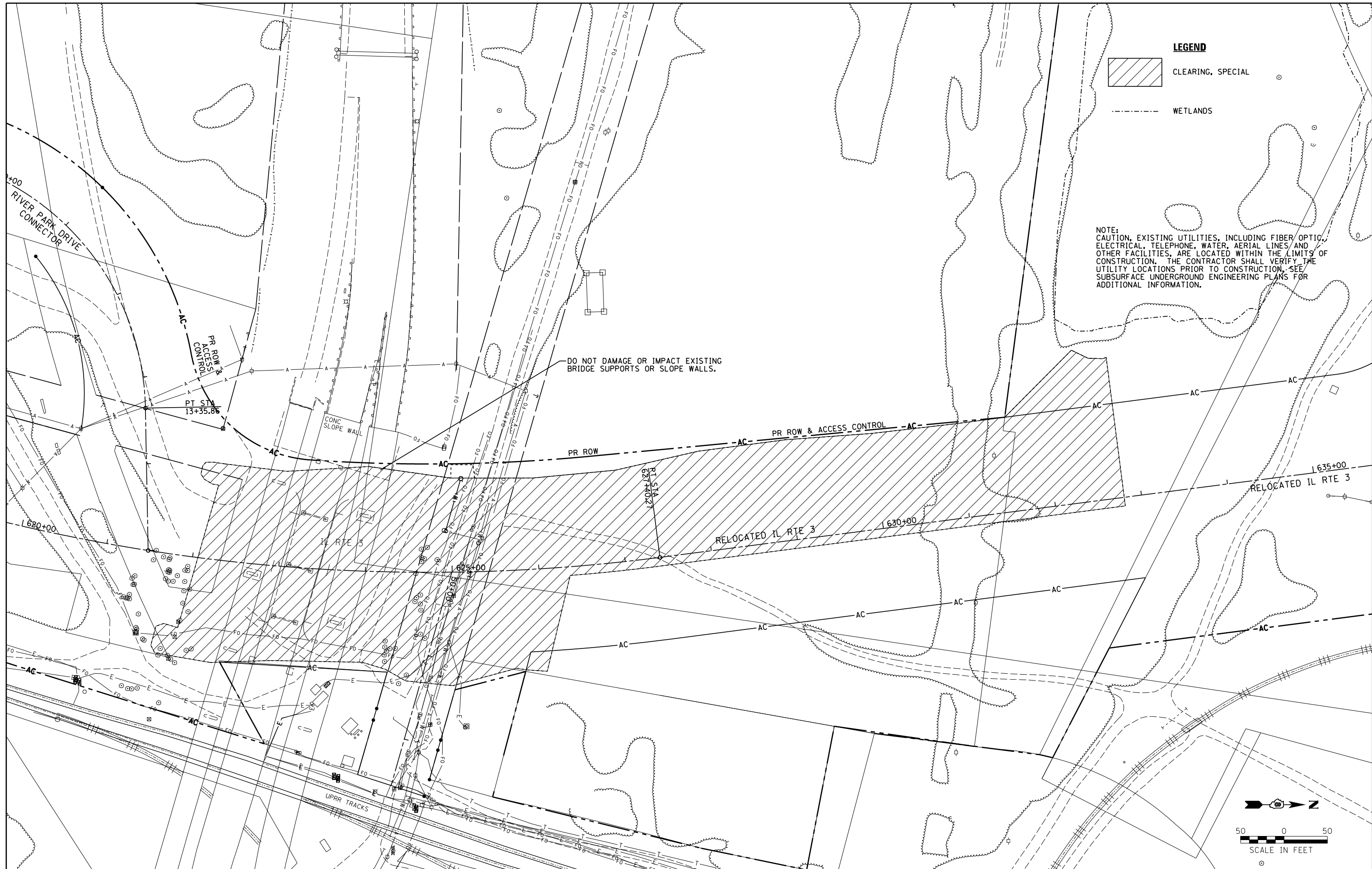
RIGHT OF WAY PLANS

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


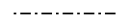
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	24

CONTRACT NO. 76F69

ILLINOIS FED. AID PROJECT

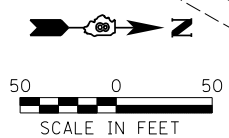


LEGEND

-  CLEARING, SPECIAL
-  WETLANDS

NOTE:
CAUTION, EXISTING UTILITIES, INCLUDING FIBER/OPTIC, ELECTRICAL, TELEPHONE, WATER, AERIAL LINES AND OTHER FACILITIES, ARE LOCATED WITHIN THE LIMITS OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE UTILITY LOCATIONS PRIOR TO CONSTRUCTION. SEE SUBSURFACE UNDERGROUND ENGINEERING PLANS FOR ADDITIONAL INFORMATION.

DO NOT DAMAGE OR IMPACT EXISTING BRIDGE SUPPORTS OR SLOPE WALLS.



Farnsworth GROUP INC.
2700 McGraw Drive
Bloomington, Illinois 61704
309-663-8435, 309-663-1571 fax

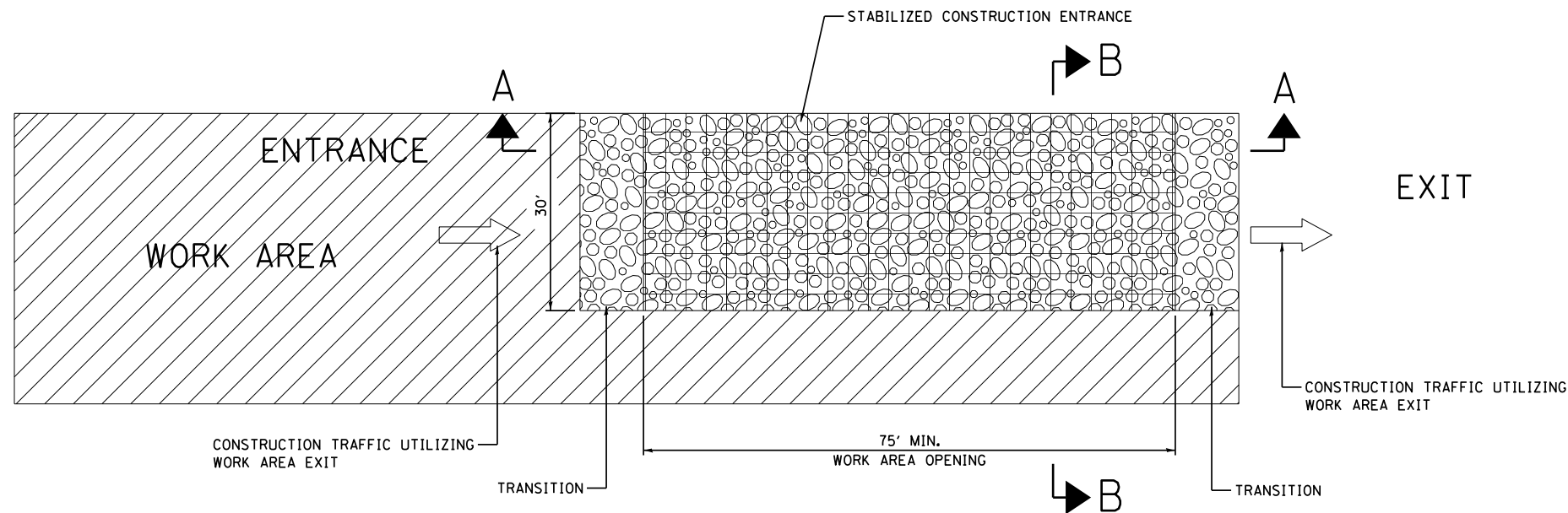
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PLOT SCALE : *SCALE*	DRAWN - JJ0	REVISED -
PLOT DATE : *DATE*	CHECKED - PJM	REVISED -
	DATE - 06/26/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

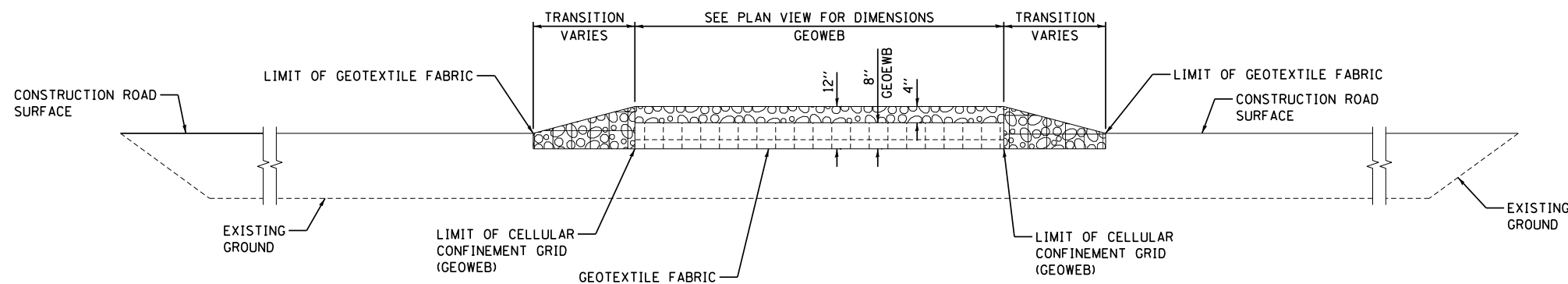
REMOVAL PLAN

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

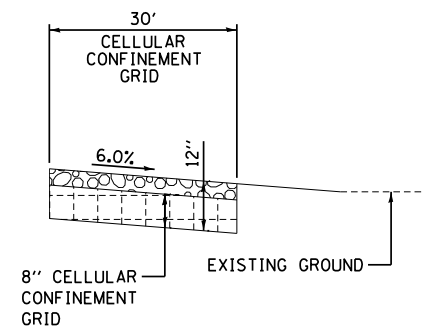
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	25
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				



ROADWAY PLAN
(NOT TO SCALE)







SECTION A-A
(NOT TO SCALE)



SECTION B-B
(NOT TO SCALE)

LEGEND:

-  DIRECTION OF TRAFFIC
-  WORK AREA
-  STABILIZED CONSTRUCTION ENTRANCE (CA 3 AND GEOWEB)
-  COARSE AGGREGATE, CA-3

NOTES:

1. EXISTING DITCH DRAINAGE TO BE MAINTAINED. THE COST OF PIPE CULVERTS USED TO MAINTAIN EXISTING DITCH DRAINAGE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR STABILIZED CONSTRUCTION ENTRANCE.
2. THE COST OF ANY COARSE AGGREGATE CA-3 USED FOR TRANSITION FROM THE CONSTRUCTION ROAD TO THE STABILIZED CONSTRUCTION ENTRANCE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR STABILIZED CONSTRUCTION ENTRANCE.
3. STABILIZED CONSTRUCTION ENTRANCE DIMENSIONS SHALL BE APPROVED BY THE ENGINEER.



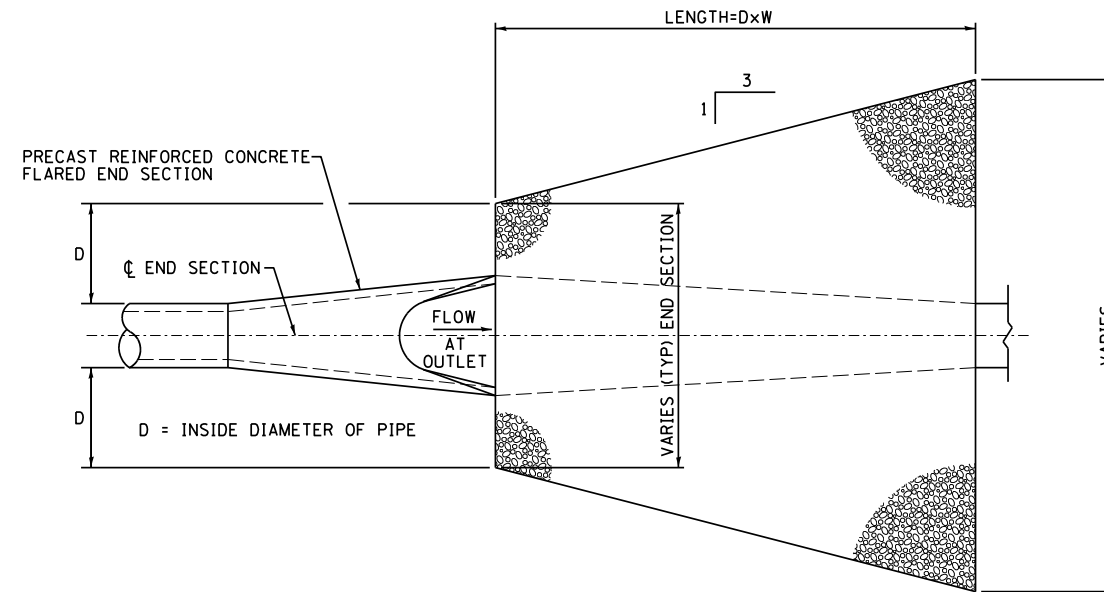
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	DRAWN - JJ0	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - PJM	REVISED -
PLOT DATE = \$DATE\$	DATE - 06/26/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

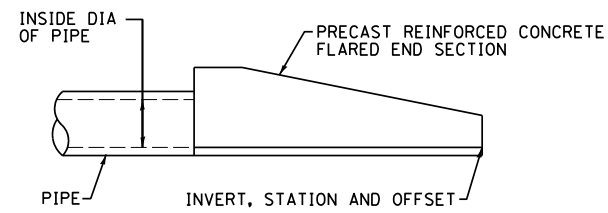
STABILIZED CONSTRUCTION ENTRANCE DETAIL

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	26
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				



PLAN
RIPRAP APRON

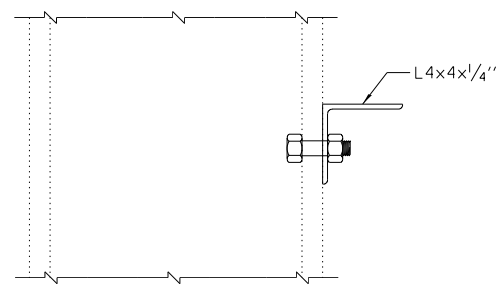


NOTE:
ALL PIPE STATIONS, OFFSETS, AND INVERTS ARE MEASURED FROM THE INVERT OF THE END SECTION.

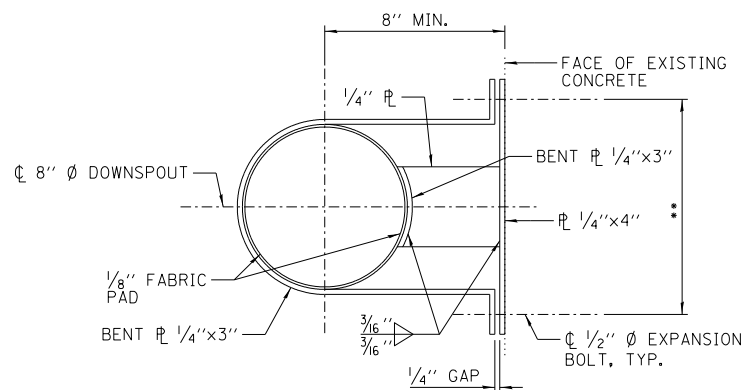
END SECTION CALL OUT DETAIL

USER NAME = \$USER\$	DESIGNED - JJ0	REVISED -
	DRAWN - JJ0	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - PJM	REVISED -
PLOT DATE = \$DATE\$	DATE - 06/26/12	REVISED -

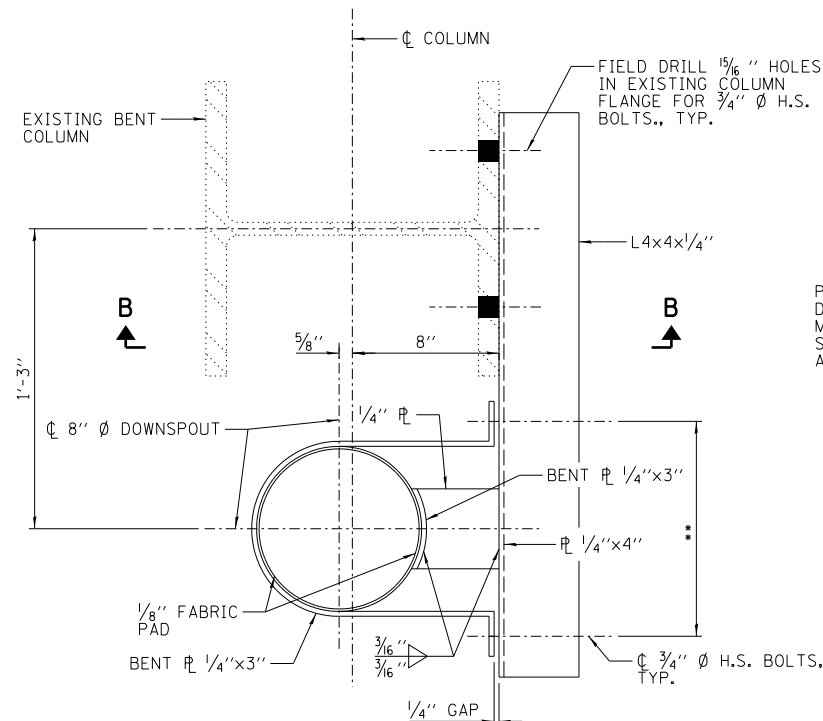
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	27
				CONTRACT NO. 76F69
ILLINOIS FED. AID PROJECT				



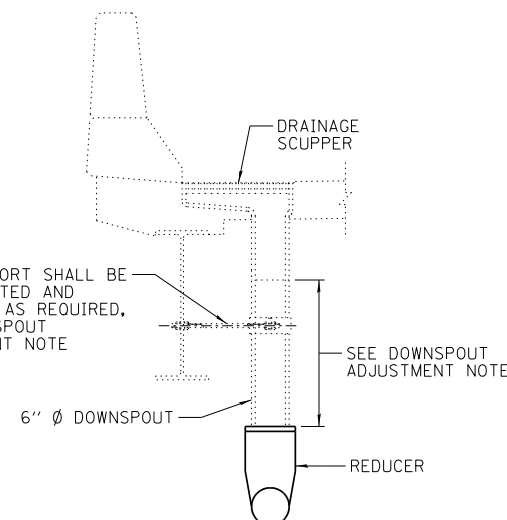
SECTION B-B



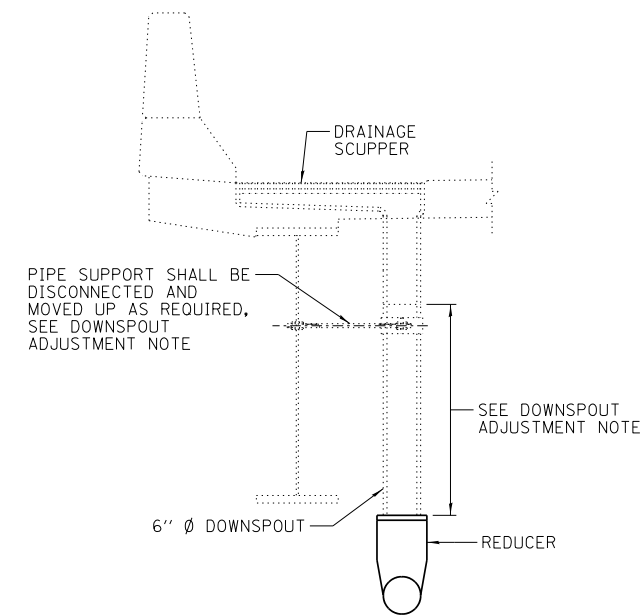
TYPE A PIPE SUPPORT
(S.N. 082-0287)



TYPE B PIPE SUPPORT
(S.N. 082-6003)



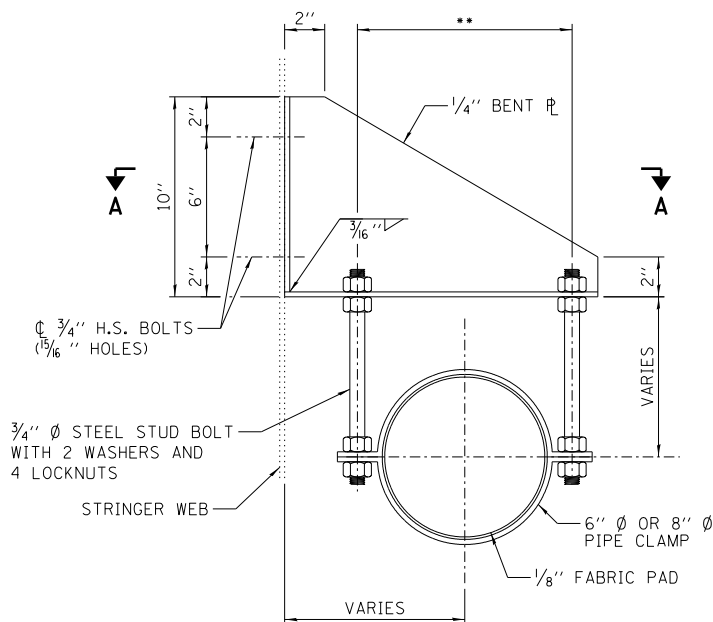
SECTION AT MLK BRIDGE DRAINAGE SCUPPER
(S.N. 082-6003)



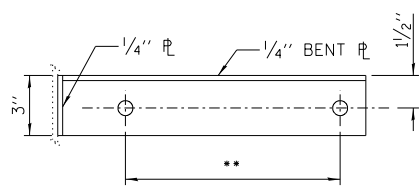
SECTION AT RAMP 1 BRIDGE DRAINAGE SCUPPER
(S.N. 082-0287)

DOWNSPOUT ADJUSTMENT NOTES:

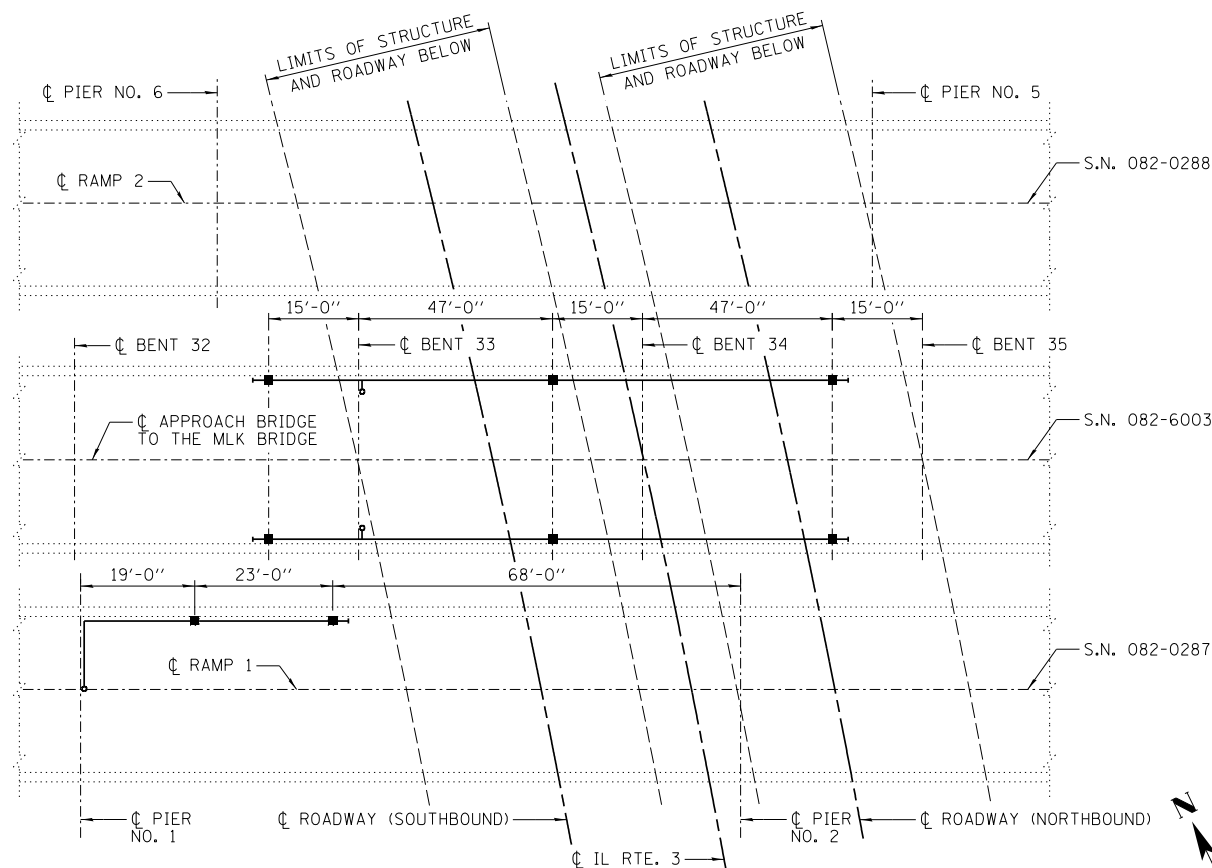
- 1.) CONTRACTOR SHALL CUT AND SHORTEN THE EXISTING 6" Ø DOWNSPOUTS AS REQUIRED FOR MINIMUM SLOPE REQUIREMENTS.
- 2.) EXISTING PIPE SUPPORTS SHALL BE MOVED IN ACCORDANCE WITH THE DOWNSPOUT SHORTENING.



TYPE C PIPE SUPPORT



SECTION A-A



PLAN

LEGEND

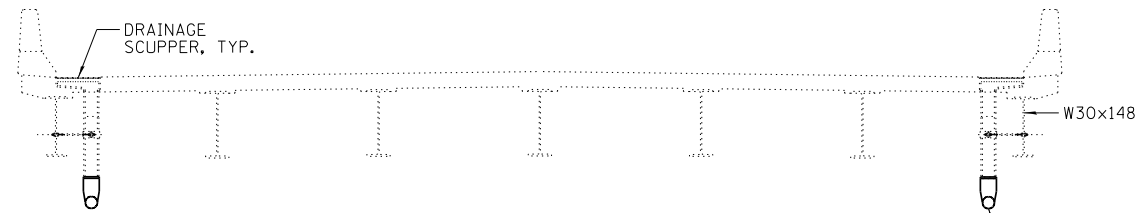
- EXISTING DRAINAGE SCUPPER LOCATION
- COLLECTOR PIPE

NOTES:

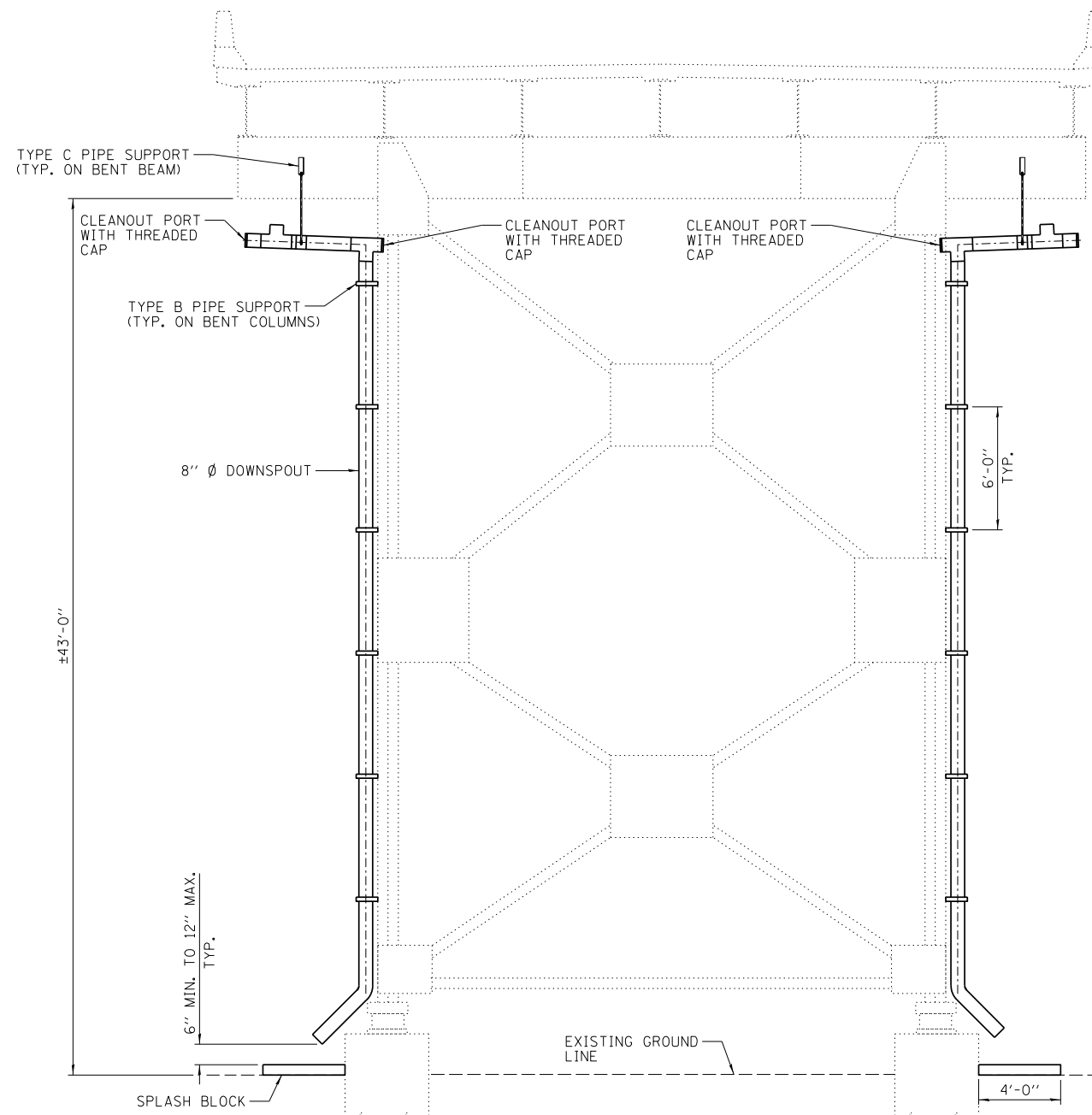
- 1.) ** DIMENSIONS AS REQUIRED BY PIPE CLAMP.
- 2.) SEE THE SPECIAL PROVISION "DRAINAGE SYSTEM" FOR ADDITIONAL INFORMATION.
- 3.) HORIZONTAL COLLECTOR PIPE RUNS SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT EXCEPT AS NOTED.
- 4.) FASTENERS SHALL BE AASHTO M164 TYPE 1, MECHANICALLY GALVANIZED BOLTS IN PAINTED AREAS. BOLTS 3/4" Ø, HOLES 15/16" Ø, UNLESS OTHERWISE NOTED.
- 5.) 3/4" Ø STUD BOLTS SHALL HAVE 6" OF THREADS AT EACH END.
- 6.) PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATIONS FOR A CHANGE IN SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- 7.) THE FIBERGLASS PIPE AND FITTINGS SHALL BE FIRE ENGINE RED IN COLOR.
- 8.) ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO CLASSIFICATION M-270 GRADE 36, UNLESS OTHERWISE NOTED.
- 9.) REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A706 GRADE 60.
- 10.) COST OF REMOVAL AND RE-INSTALLATION OF ALL MEMBERS NECESSARY TO COMPLETE THE WORK AS DETAILED ON THE PLANS AND AS SPECIFIED IN THE SPECIAL PROVISIONS SHALL BE INCLUDED WITH "DRAINAGE SYSTEM".
- 11.) EXISTING STRUCTURAL STEEL THAT WILL BE IN CONTACT WITH NEW STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED PRIOR TO ERECTION AS REQUIRED BY THE SPECIAL PROVISION "CLEANING AND PAINTING CONTACT SURFACE AREAS OF EXISTING STEEL STRUCTURES".
- 12.) THE MAXIMUM SPACING FOR SUPPORT BRACKETS FOR HORIZONTALLY SUPPORTED PIPE SHALL BE 8 FEET. SUPPORT BRACKET SPACING OF LESS THAN 8 FEET FOR HORIZONTALLY SUPPORTED PIPE SHALL BE REQUIRED WHEN THE MANUFACTURER OF THE PIPE REQUIRES A SMALLER SPACING.

DESIGNED - TCR	REVISED
CHECKED - JML	REVISED
DRAWN - JWK	REVISED
CHECKED - MSW	REVISED
DATE - 05/07/12	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	26
				CONTRACT NO. 76F69



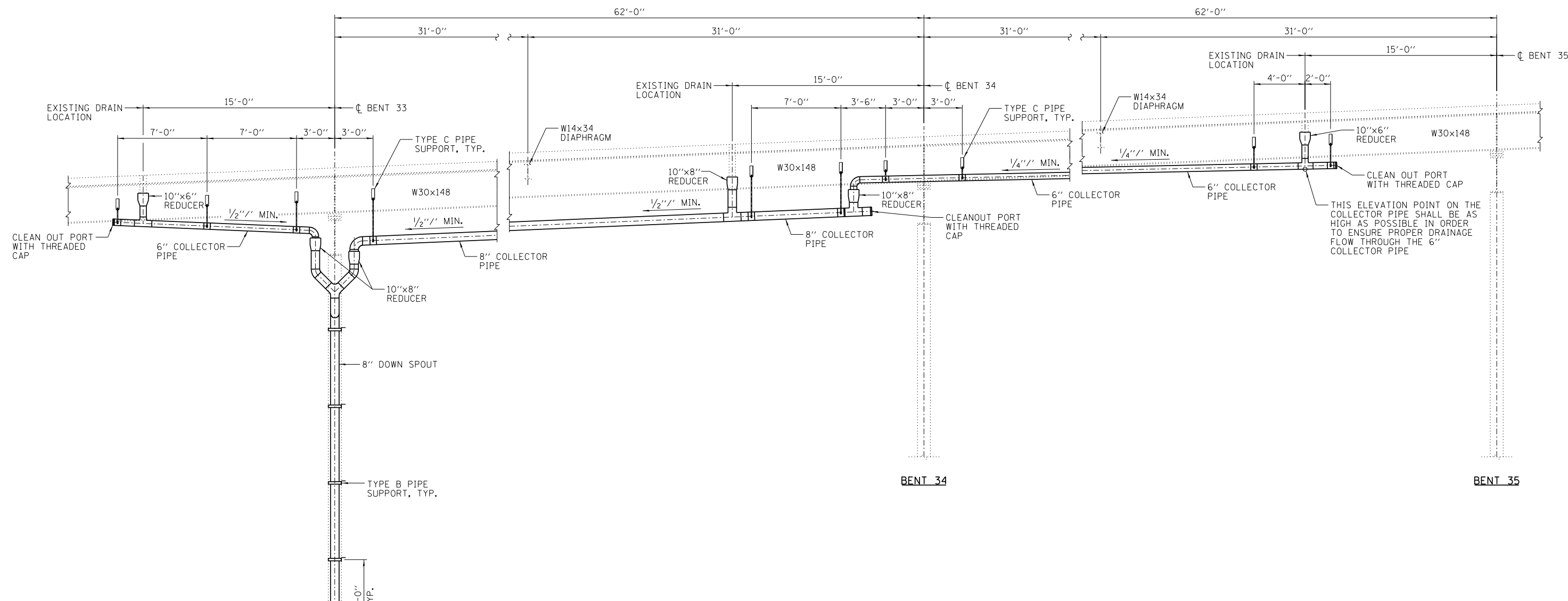
DECK CROSS SECTION
(S.N. 082-6003)



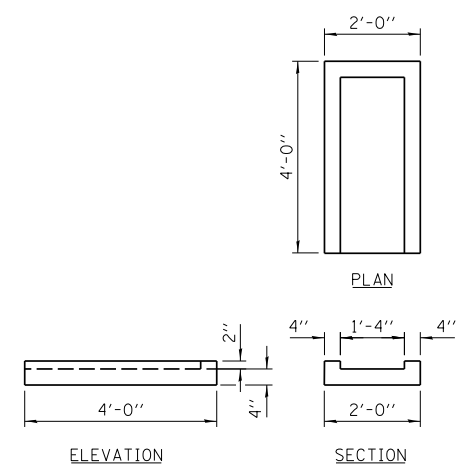
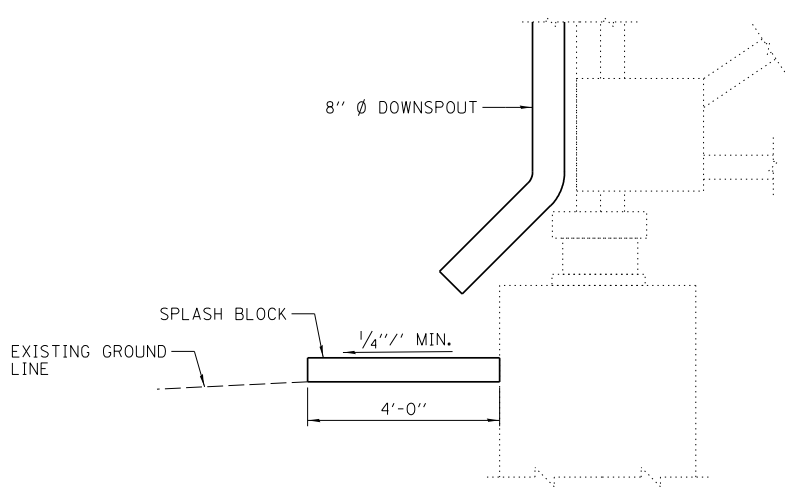
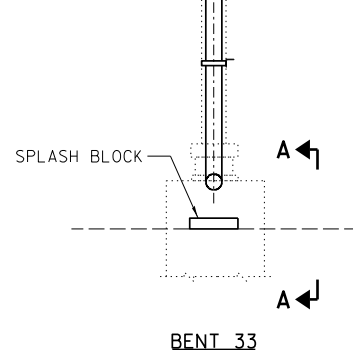
DRAINAGE SYSTEM ELEVATION AT BENT 33
(LOOKING WEST/S.N. 082-6003)

DESIGNED - TCR	REVISED
CHECKED - JML	REVISED
DRAWN - JWK	REVISED
CHECKED - MSW	REVISED
DATE - 05/07/12	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	29
				CONTRACT NO. 76F69
ILLINOIS FED. AID PROJECT				



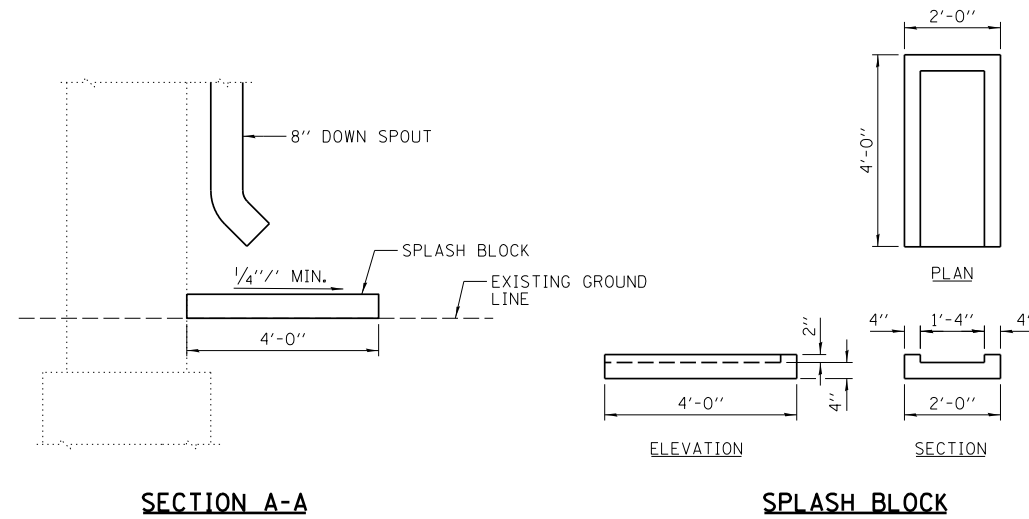
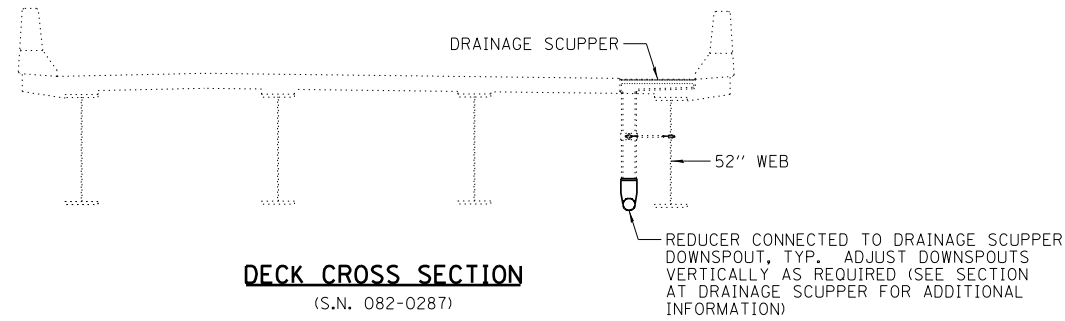
DRAINAGE SYSTEM ELEVATION
(LOOKING WEST/S.N. 082-6003)



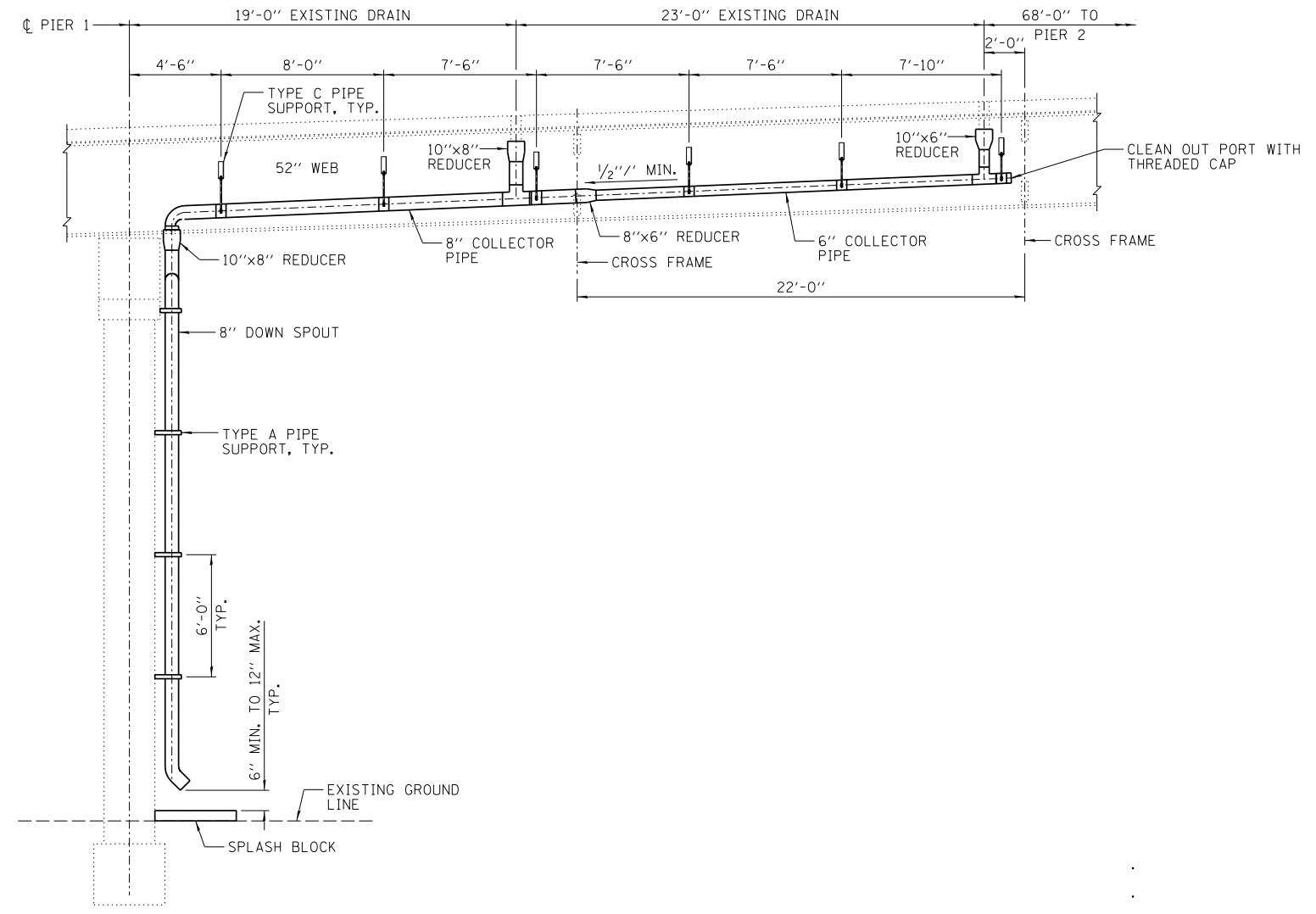
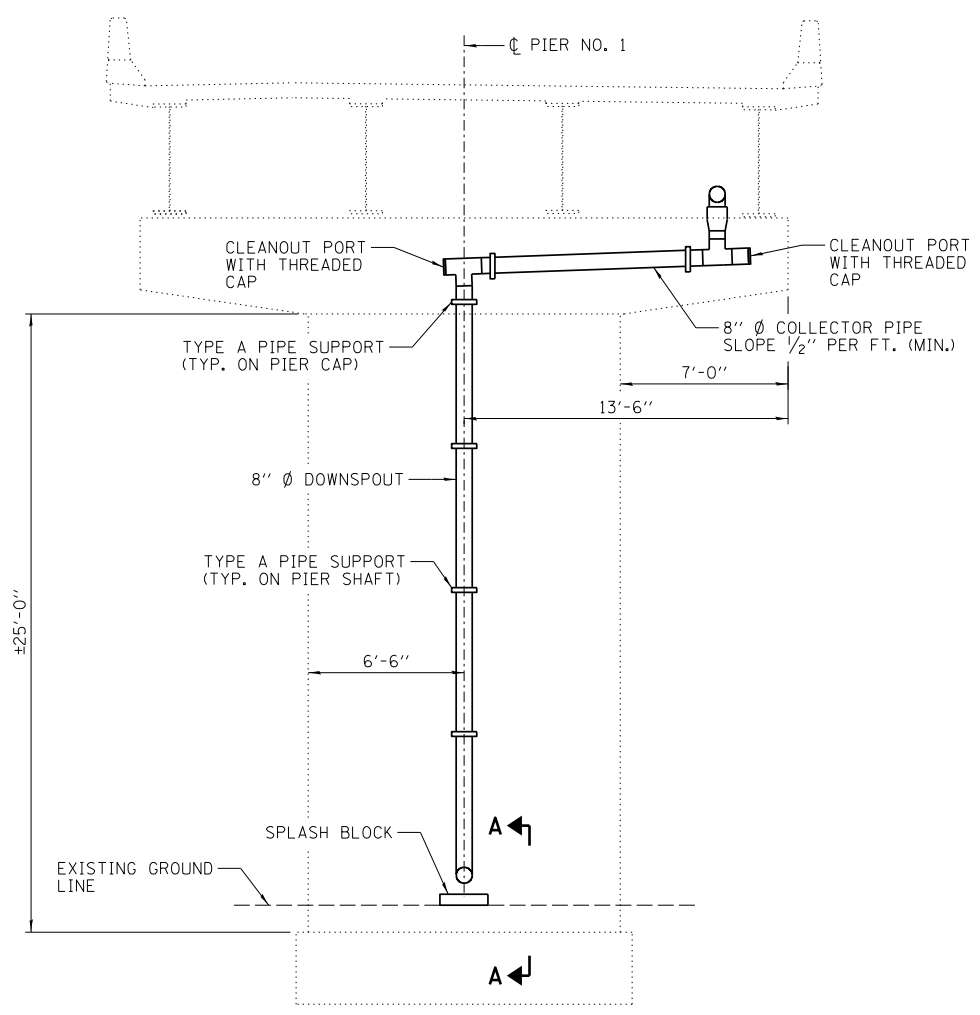
- NOTES:**
- 1.) SPLASH BLOCK SHALL BE A MIN. OF 4" THICK CLASS SI CONCRETE. COST INCIDENTAL TO DRAINAGE SYSTEM.
 - 2.) REINFORCEMENT BARS - #3 EPOXY COATED, SHALL BE PLACED AT THE CENTER OF THE 4" THICK SPLASH BLOCK. REINFORCEMENT BARS SHALL BE AT 8" CTS. IN BOTH DIRECTIONS.
 - 3.) SOIL UNDERNEATH SPLASH-BLOCKS SHALL BE COMPACTED PRIOR TO POURING THE SPLASH BLOCK.

DESIGNED - TCR	REVISED
CHECKED - JML	REVISED
DRAWN - JWK	REVISED
CHECKED - MSW	REVISED
DATE - 05/07/12	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. GLAIR	94	30
CONTRACT NO. 76F69				



- NOTES:**
- 1.) SPLASH BLOCK SHALL BE A MIN. OF 4" THICK CLASS SI CONCRETE. COST INCIDENTAL TO DRAINAGE SYSTEM.
 - 2.) REINFORCEMENT BARS - #3 EPOXY COATED, SHALL BE PLACED AT THE CENTER OF THE 4" THICK SPLASH BLOCK. REINFORCEMENT BARS SHALL BE AT 8" CTS. IN BOTH DIRECTIONS.
 - 3.) SOIL UNDERNEATH SPLASH BLOCKS SHALL BE COMPACTED PRIOR TO POURING THE SPLASH BLOCK.



- NOTES:**
- 1.) HORIZONTAL COLLECTOR PIPES SHALL HAVE A MINIMUM SLOPE OF 1/2" PER FOOT.
 - 2.) HORIZONTAL COLLECTOR PIPES SHALL BE ABOVE THE BOTTOM FLANGE.

Farnworth GROUP, INC.
2700 McGraw Drive
Bloomington, Illinois 61704
309.663-8435, 309.663-1571 fax

DESIGNED - TCR	REVISED
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DRAWN - JWK	REVISED
DATE - 05/07/12	REVISED
CHECKED - MSW	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE SYSTEM DETAILS
S.N. 082-6003 AND S.N. 082-0287**

SHEET NO. . OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	31
CONTRACT NO. 76F69			ILLINOIS FED. AID PROJECT	

Benchmarks: MRC Horizontal/Vertical Control Monument No. 8 (Elevation 401.95) Aluminum disc set in the South end of a headwall to a box culvert under Illinois Route 3, 0.7 miles South of Canal Street, 0.1 miles South of Industrial Ave. and North of railroad track.

Existing Structure: None.

Traffic Barrier Terminal or Concrete Barrier Wall, typ. (See Plan View for types & locations)

Temporary Geotextile Retaining Wall

CURVE DATA

(Relocated IL. Rte. 3)

$\Delta = 39^\circ 34' 55''$ (LT)
 $D = 2^\circ 45' 00''$
 $R = 2,083.48'$
 $T = 749.73'$
 $L = 1,439.34'$
 $E = 130.79'$
 $e = 4.32'$
 $T.R. = 36'$
 $S.E. RUN = 102'$
 $P.C. STA. = 613+00.92$
 $P.T. STA. = 627+40.27$
 $P.I. STA. = 620+50.65$

CURVE DATA

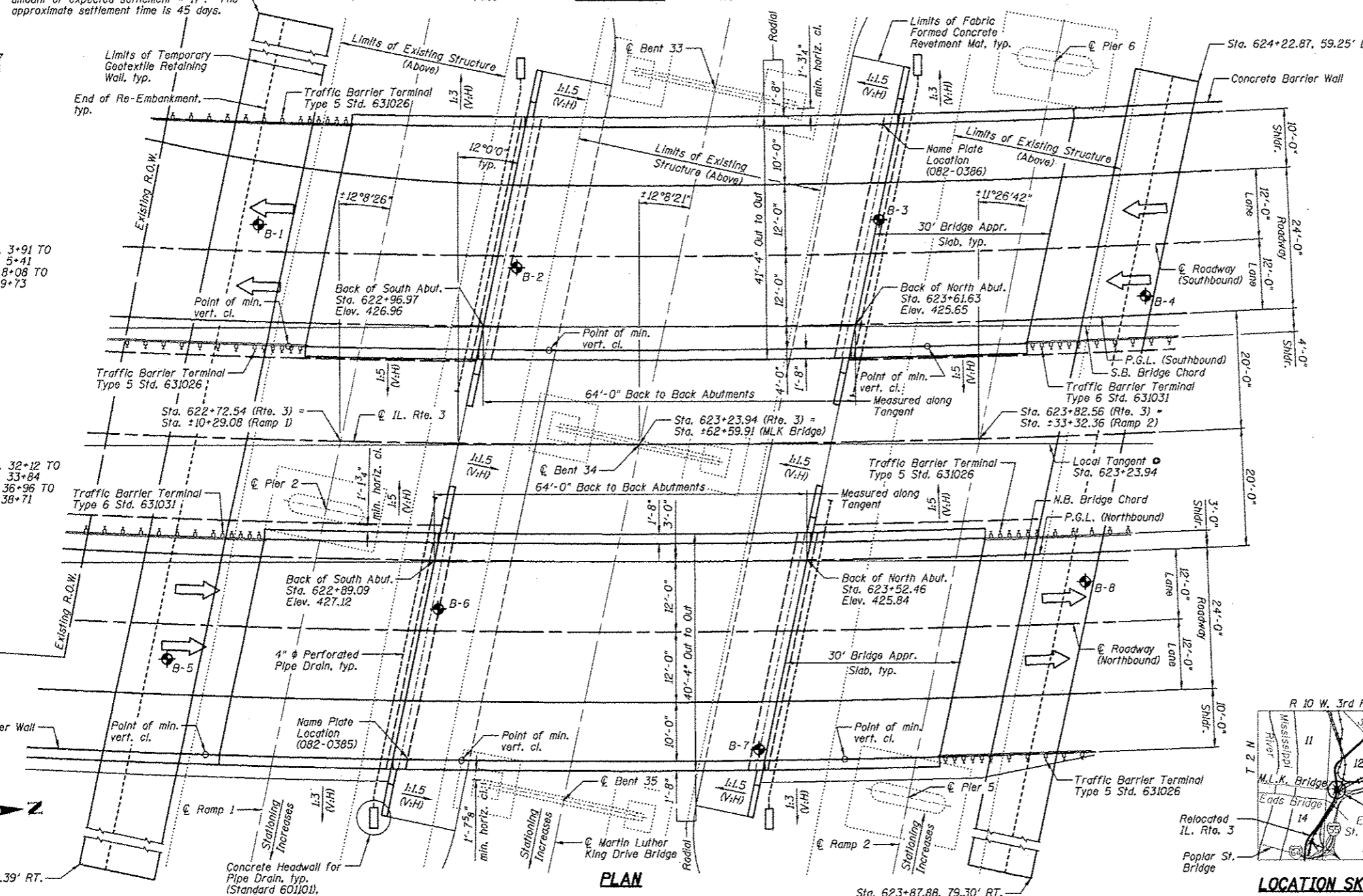
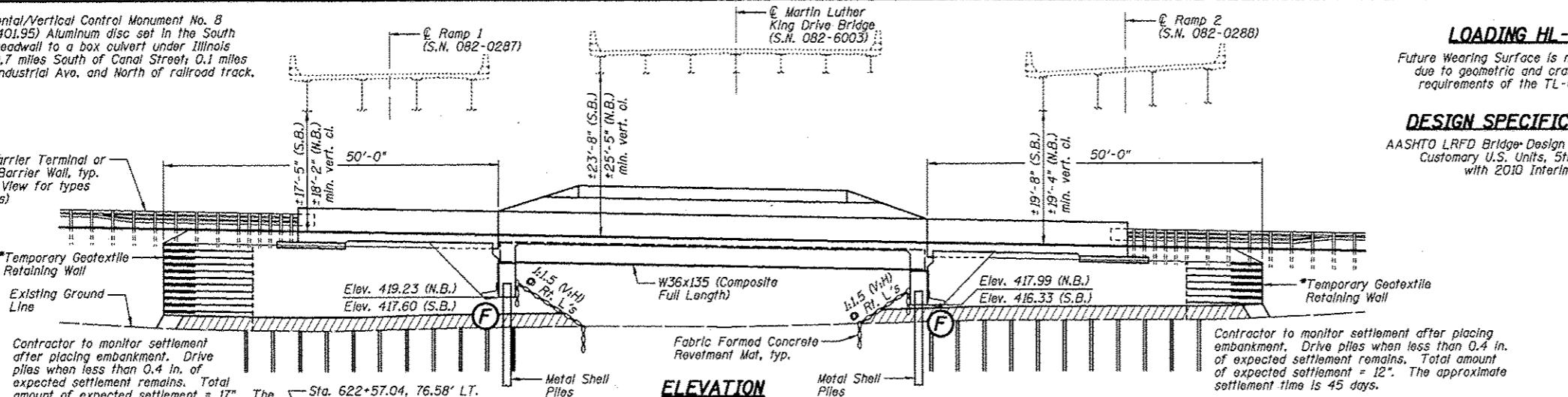
(Ramp 1)

$\Delta = 13^\circ 00' 25''$ (RT)
 $D = 3^\circ 30' 00''$
 $R = 1637.02'$
 $T = 185.61'$
 $L = 371.62'$
 $E = 10.60'$
 $P.C. STA. = 4+91.06$
 $P.T. STA. = 8+62.68$
 $P.I. STA. = 6+77.67$
 $S.E. = 0.0441''$
 $S.E. ATTAINED = STA. 3+91 TO STA. 5+41$
 $S.E. REMOVAL = STA. 8+08 TO STA. 9+73$

CURVE DATA

(Ramp 2)

$\Delta = 16^\circ 49' 30''$ (LT)
 $D = 4^\circ 00' 00''$
 $R = 1,432.39'$
 $T = 211.84'$
 $L = 420.63'$
 $E = 15.58'$
 $P.C. STA. = 33+33.86$
 $P.T. STA. = 37+54.49$
 $P.I. STA. = 35+45.70$
 $S.E. = 0.0487''$
 $S.E. ATTAINED = STA. 32+12 TO STA. 33+84$
 $S.E. REMOVAL = STA. 36+96 TO STA. 38+71$



LOADING HL-93

Future Wearing Surface is not permitted due to geometric and crash testing requirements of the TL-6 barrier

DESIGN SPECIFICATIONS

AASHTO LRFD Bridge Design Specifications, Customary U.S. Units, 5th Edition, with 2010 Interims

DESIGN STRESSES

FIELD UNITS:
 $f'_c = 3,500$ psi (Cast-In-Place)
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (Structural Steel - M270 Grade 50W)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 3
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.347g
 Design Spectral Acceleration at 0.2 sec. (SDs) = 0.766g
 Soil Site Class = E

INDEX OF SHEETS

SHEET NO.	TITLE
A1	GENERAL PLAN AND ELEVATION
A2-A3	GENERAL DATA
A4	TOP OF SLAB ELEVATION LOCATIONS
A5-A6	TOP OF SLAB ELEVATIONS
A7-A8	TOP OF APPROACH SLAB ELEVATIONS
A9-A10	SUPERSTRUCTURE DECK
A11	SUPERSTRUCTURE CROSS SECTIONS
A12-A15	RAIL DETAILS
A16-A19	DIAPHRAGM DETAILS
A20-A23	BRIDGE APPROACH SLAB DETAILS
A24-A26	STRUCTURAL STEEL
A27	FIXED BEARING DETAILS
A28-A31	ABUTMENTS, SOUTHBOUND
A32-A35	ABUTMENTS, NORTHBOUND
A36	TEMPORARY GEOTEXTILE RETAINING WALLS
A37	METAL SHELL PILE DETAILS
A38	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
A39-A48	SOIL BORING LOGS

NOTE:

*South Temporary Geotextile Retaining Wall to remain within the current Right-of-Way Line. North Temporary Geotextile Retaining Wall to allow Missouri Avenue to remain open during construction.

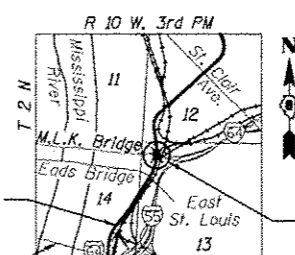


Joseph M. Lowrance Date 06-27-12
 JOSEPH M. LOWRANCE
 ILLINOIS STRUCTURAL ENGINEER
 NO. 081-006446
 Exp. Date 11/30/12

APPROVED
 For Structural Adequacy Only

Joseph M. Lowrance
 Engineer of Bridges & Structures

**GENERAL PLAN AND ELEVATION
 RELOCATED IL. ROUTE 3 UNDER
 MARTIN LUTHER KING DRIVE BRIDGE
 E.A.P. 788 - SECTION 520-1-2B
 ST. CLAIR COUNTY
 STATION 623+23.94
 STRUCTURE NO. 082-0385 NB
 STRUCTURE NO. 082-0386 SB**



Farnsworth GROUP, INC.
 2709 McDermott Drive
 Bloomington, Illinois 61704
 309-663-6406, 309-663-1571 fax

DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHEET NO. A1 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	32
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				

TOTAL BILL OF MATERIAL

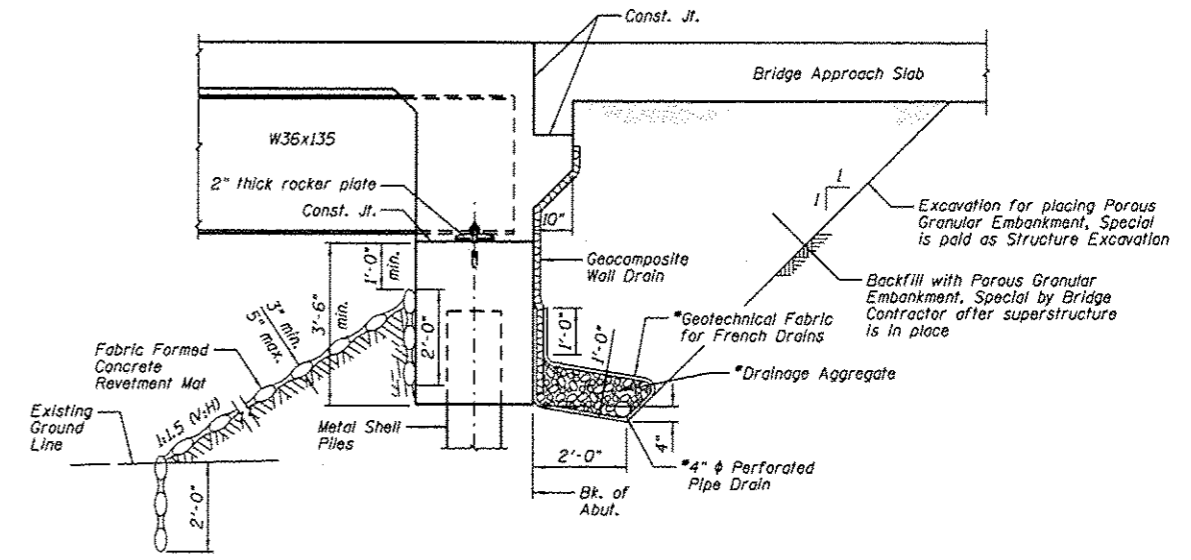
ITEM	UNIT	SUPER	SUB	TOTAL
Fabric Formed Concrete Revetment Mat	Sq. Yd.		328	328
Structure Excavation	Cu. Yd.		414	414
Concrete Structures	Cu. Yd.	51.6	79.6	131.2
Concrete Superstructure	Cu. Yd.	605.8		605.8
Bridge Deck Grooving	Sq. Yd.	978		978
Protective Coat	Sq. Yd.	1,426		1,426
Furnishing and Erecting Structural Steel	L Sum		1	1
Stud Shear Connectors	Each	3,906		3,906
Reinforcement Bars, Epoxy Coated	Pound	127,440	11,170	138,610
Bar Splicers	Each	174		174
Furnishing Metal Shell Piles 14" x 0.312"	Foot		2,028	2,028
Driving Piles	Foot		2,028	2,028
Test Pile Metal Shells	Each		4	4
Name Plates	Each	2		2
Anchor Bolts, 1"	Each	56		56
Geocomposite Wall Drain	Sq. Yd.		174	174
Geotextile Retaining Wall	Sq. Ft.		2,001	2,001
Pipe Underdrains for Structures 4"	Foot		314	314
Porous Granular Embankment, Special	Cu. Yd.		334	334

STATION 623+23.94
 BUILT 20... BY
 STATE OF ILLINOIS
 F.A.P. RT. 788 SEC. 520-1-2B
 LOADING HL-93
 STRUCTURE NO. 082-0385

NAME PLATE
 See Std. 515001

STATION 623+23.94
 BUILT 20... BY
 STATE OF ILLINOIS
 F.A.P. RT. 788 SEC. 520-1-2B
 LOADING HL-93
 STRUCTURE NO. 082-0386

NAME PLATE
 See Std. 515001

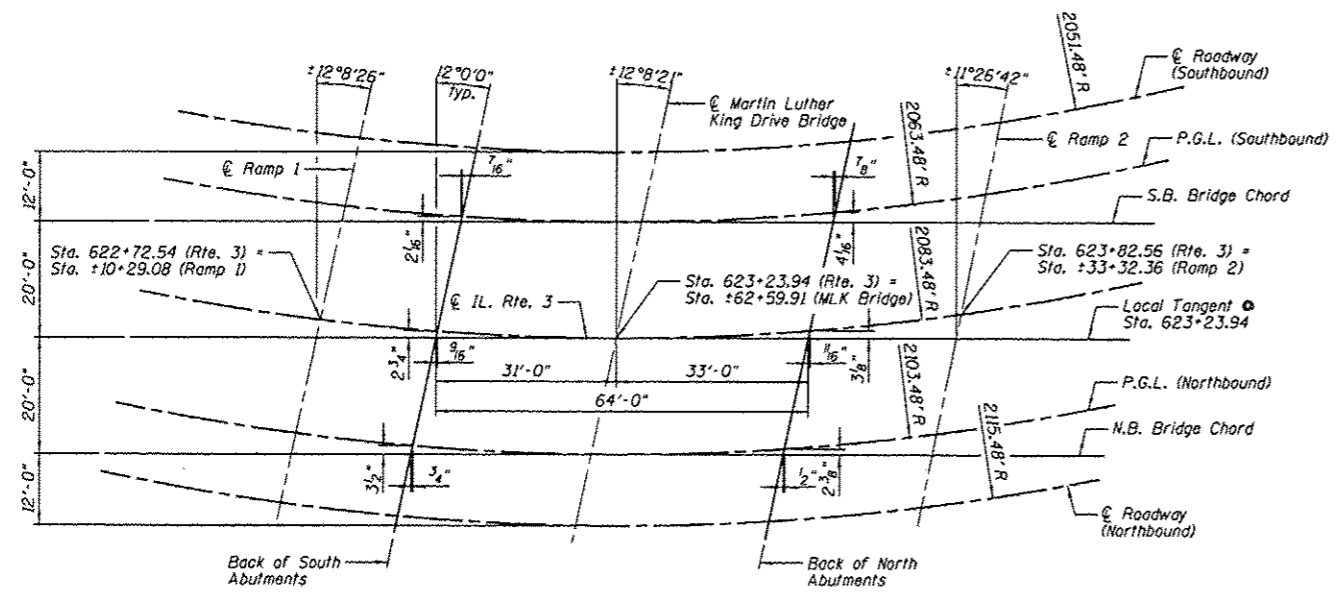


SECTION THRU NORTH ABUTMENTS
 (Similar for South Abutments)

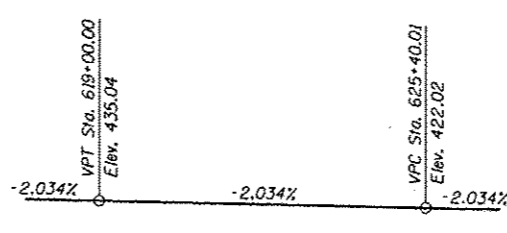
- NOTES:**
- 1.) Horizontal dimensions @ Rt. L's to Abutment.
 - 2.) Included in the cost of Pipe Underdrains for Structures 4".
 - 3.) All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes (1:3 V:H) embankment slopes only). The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601(01))

GENERAL NOTES:

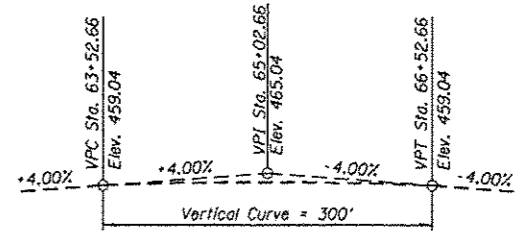
- 1.) Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts 7/8 in. ϕ , holes 1 1/16 in. ϕ , unless otherwise noted.
- 2.) Calculated weight of Structural Steel = 132,250 lbs.
- 3.) All structural steel shall be AASHTO M270 Grade 50W.
- 4.) No field welding is permitted except as specified in the contract documents.
- 5.) Reinforcement bars designated (E) shall be epoxy coated.
- 6.) Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 in. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
- 7.) The embankment configuration shown shall be placed and compacted prior to construction of the abutments.
- 8.) Slipforming of parapets is not allowed.
- 9.) Wick Drains shall be used to expedite the embankment settlement. See Roadway Plans for quantities, layout and locations.



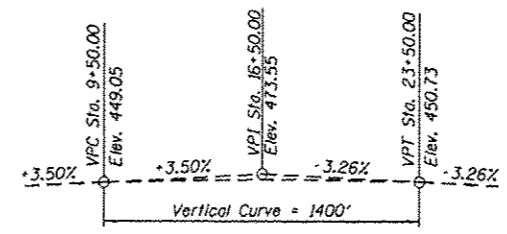
OFFSET SKETCH



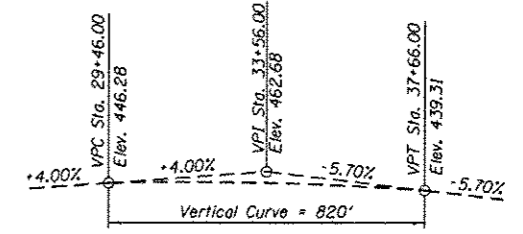
PROFILE GRADE
 (Along P.G.L.)



M.L.K. DRIVE BRIDGE PROFILE GRADE
 (Along P.G.L.)



RAMP 1 PROFILE GRADE
 (Along P.G.L.)



RAMP 2 PROFILE GRADE
 (Along P.G.L.)

Farnsworth
 GROUP, INC.
 2700 McGraw Drive
 Bloomington, Illinois 61704
 309/503-8433 309/503-1071 fax

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CHECKED - MSW	REVIS

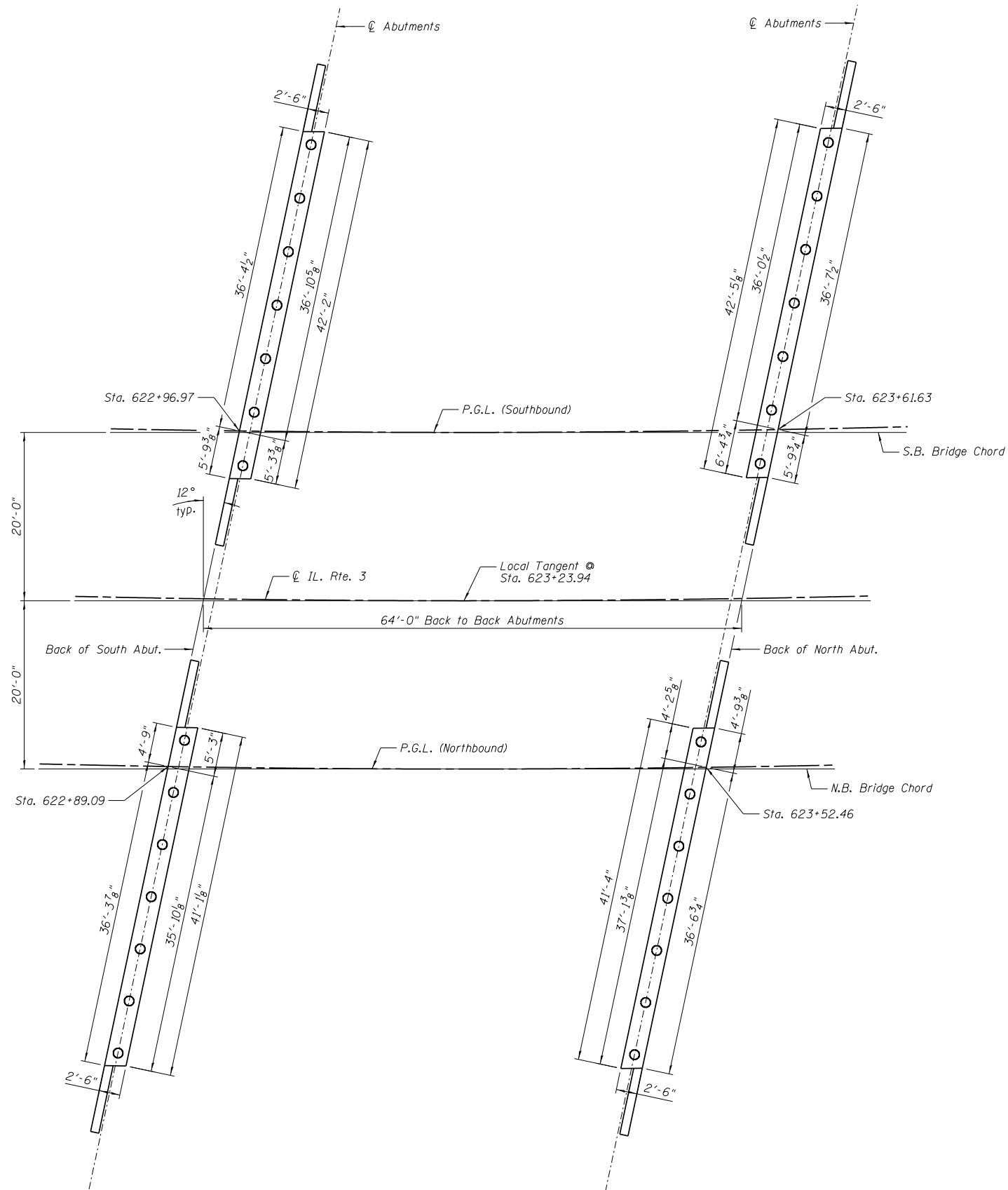
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 082-0385 NB & 082-0386 SB

F.A.P. RTE. 788	SECTION 520-1-2B	COUNTY ST. CLAIR	TOTAL SHEETS 94	SHEET NO. 33
CONTRACT NO. 76F69				ILLINOIS FED. AID PROJECT

SHEET NO. A2 OF 48 SHEETS



FOUNDATION LAYOUT

LEGEND

○ MS 14x0.312 Pile



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DATE - 06/26/12	

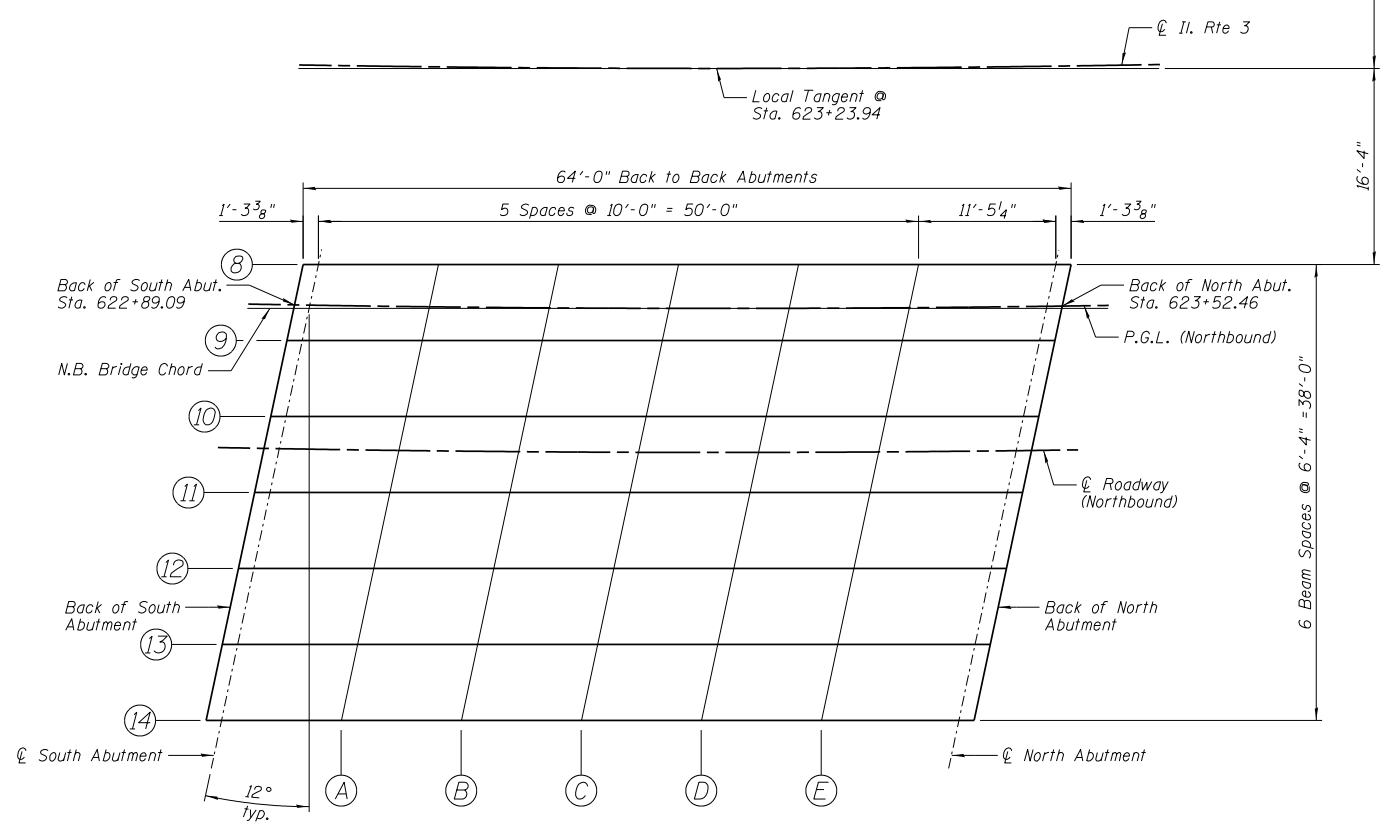
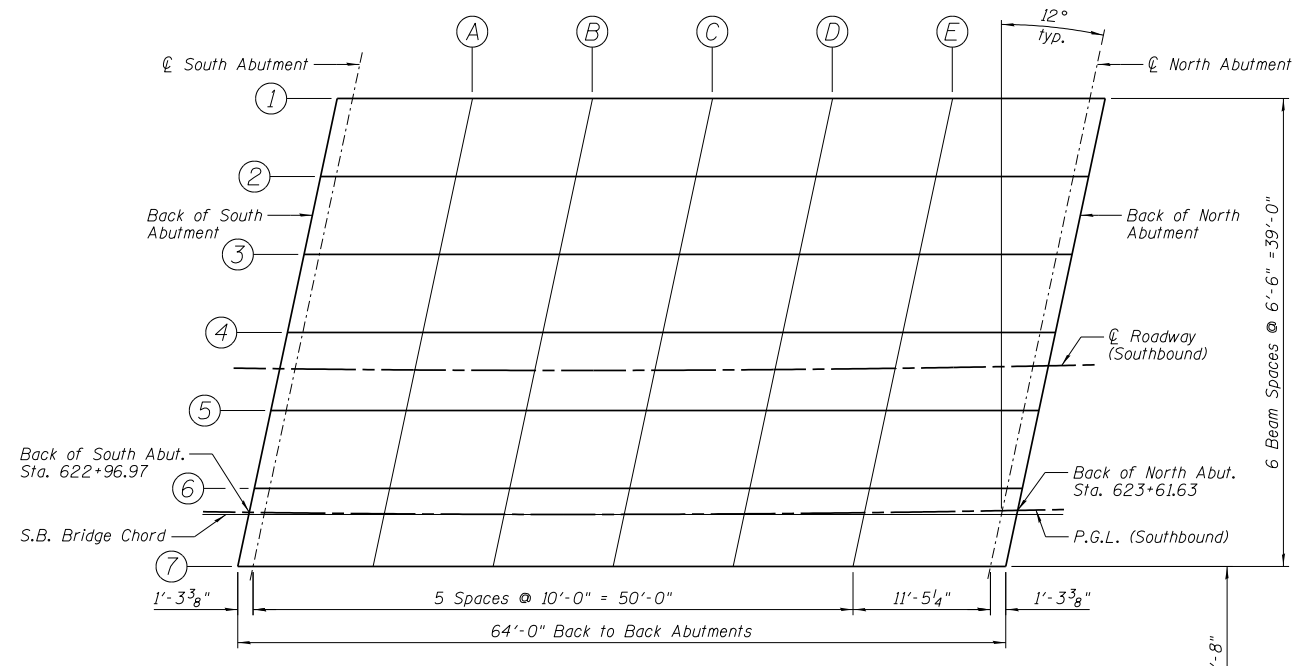
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 082-0385 NB & 082-0386 SB

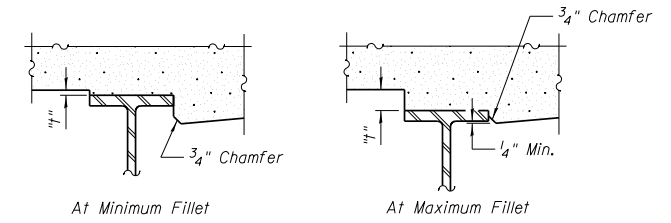
SHEET NO. A3 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	34
CONTRACT NO. 76F69				

ILLINOIS FED. AID PROJECT

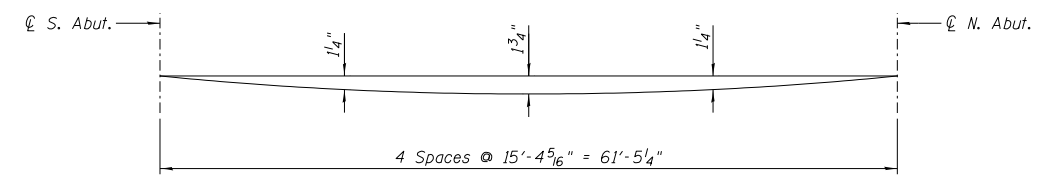


PLAN



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

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)
 Note:
 The above deflections are not for use in the field if the Engineer is working from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection".

Farnsworth GROUP, INC.
 2700 McGraw Drive
 Bloomington, Illinois 61704
 309-663-8435, 309-663-1571 fax

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DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED
DATE - 06/26/12	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATION LOCATIONS
 STRUCTURE NO. 082-0385 NB & 082-0386 SB**

SHEET NO. 44 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	35
CONTRACT NO. 76F69				

ILLINOIS FED. AID PROJECT

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of South Abut.	623+04.04	-34.57	425.33	425.33
☉ South Abut.	623+05.36	-34.59	425.31	425.31
A	623+15.63	-34.65	425.09	425.15
B	623+25.89	-34.67	424.89	424.99
C	623+36.16	-34.63	424.68	424.80
D	623+46.43	-34.55	424.47	424.58
E	623+56.70	-34.42	424.27	424.34
☉ North Abut.	623+68.45	-34.20	424.04	424.04
Bk. of North Abut.	623+69.76	-34.18	424.01	424.01

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of South Abut.	623+02.69	-28.06	425.64	425.64
☉ South Abut.	623+04.00	-28.07	425.61	425.61
A	623+14.24	-28.15	425.40	425.48
B	623+24.47	-28.17	425.19	425.32
C	623+34.71	-28.14	424.99	425.14
D	623+44.95	-28.06	424.78	424.91
E	623+55.18	-27.94	424.58	424.66
☉ North Abut.	623+66.89	-27.73	424.35	424.35
Bk. of North Abut.	623+68.20	-27.71	424.32	424.32

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of South Abut.	623+01.35	-21.55	425.95	425.95
☉ South Abut.	623+02.66	-21.56	425.92	425.92
A	623+12.86	-21.64	425.71	425.78
B	623+23.06	-21.67	425.50	425.63
C	623+33.27	-21.65	425.29	425.44
D	623+43.47	-21.58	425.09	425.22
E	623+53.67	-21.46	424.89	424.97
☉ North Abut.	623+65.35	-21.26	424.66	424.66
Bk. of North Abut.	623+66.65	-21.24	424.63	424.63

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of South Abut.	623+00.02	-15.03	426.26	426.26
☉ South Abut.	623+01.32	-15.05	426.23	426.23
A	623+11.49	-15.13	426.02	426.09
B	623+21.66	-15.17	425.81	425.94
C	623+31.83	-15.15	425.60	425.75
D	623+42.00	-15.09	425.40	425.53
E	623+52.17	-14.98	425.20	425.28
☉ North Abut.	623+63.81	-14.79	424.97	424.97
Bk. of North Abut.	623+65.11	-14.77	424.94	424.94

☉ ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of South Abut.	622+99.40	-12.00	426.40	426.40
☉ South Abut.	623+00.69	-12.00	426.37	426.37
A	623+10.83	-12.00	426.17	426.24
B	623+20.98	-12.00	425.96	426.09
C	623+31.14	-12.00	425.75	425.90
D	623+41.31	-12.00	425.55	425.68
E	623+51.49	-12.00	425.34	425.42
☉ North Abut.	623+63.15	-12.00	425.10	425.10
Bk. of North Abut.	623+64.45	-12.00	425.08	425.08

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of South Abut.	622+98.69	-8.52	426.56	426.56
☉ South Abut.	622+99.99	-8.53	426.54	426.54
A	623+10.13	-8.62	426.33	426.40
B	623+20.27	-8.66	426.12	426.25
C	623+30.41	-8.66	425.91	426.06
D	623+40.54	-8.60	425.71	425.84
E	623+50.68	-8.50	425.51	425.59
☉ North Abut.	623+62.28	-8.32	425.28	425.28
Bk. of North Abut.	623+63.58	-8.30	425.25	425.25

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of South Abut.	622+97.38	-2.00	426.87	426.87
☉ South Abut.	622+98.67	-2.02	426.84	426.84
A	623+08.77	-2.11	426.63	426.71
B	623+18.88	-2.16	426.43	426.55
C	623+28.99	-2.16	426.22	426.37
D	623+39.10	-2.11	426.02	426.15
E	623+49.20	-2.02	425.81	425.90
☉ North Abut.	623+60.77	-1.84	425.59	425.59
Bk. of North Abut.	623+62.06	-1.82	425.56	425.56

PROFILE GRADE LINE (P.G.L.)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of South Abut.	622+96.97	0.00	426.96	426.96
☉ South Abut.	622+98.26	0.00	426.94	426.94
A	623+08.34	0.00	426.73	426.81
B	623+18.42	0.00	426.53	426.66
C	623+28.52	0.00	426.32	426.47
D	623+38.63	0.00	426.12	426.25
E	623+48.74	0.00	425.91	426.00
☉ North Abut.	623+60.33	0.00	425.68	425.68
Bk. of North Abut.	623+61.63	0.00	425.65	425.65

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of South Abut.	622+96.07	4.52	427.18	427.18
☉ South Abut.	622+97.36	4.50	427.15	427.15
A	623+07.43	4.40	426.94	427.00
B	623+17.51	4.34	426.73	426.84
C	623+27.58	4.34	426.53	426.65
D	623+37.66	4.38	426.32	426.43
E	623+47.73	4.47	426.12	426.19
☉ North Abut.	623+59.26	4.63	425.90	425.90
Bk. of North Abut.	623+60.55	4.65	425.87	425.87



DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS, SOUTHBOUND ROADWAY
STRUCTURE NO. 082-0385 NB & 082-0386 SB

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	36
CONTRACT NO. 76F69			ILLINOIS FED. AID PROJECT	

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of South Abut.	622+89.74	-3:38	426.97	426.97
☉ South Abut.	622+91.01	-3:40	426.94	426.94
A	623+00.93	-3:54	426.73	426.79
B	623+10.85	-3:63	426.53	426.62
C	623+20.78	-3:66	426.32	426.44
D	623+30.70	-3:66	426.12	426.22
E	623+40.62	-3:60	425.92	425.99
☉ North Abut.	623+51.97	-3:48	425.70	425.70
Bk. of North Abut.	623+53.24	-3:46	425.67	425.67

PROFILE GRADE LINE (P.G.L.)

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of South Abut.	622+89.09	0.00	427.12	427.12
☉ South Abut.	622+90.35	0.00	427.10	427.10
A	623+00.23	0.00	426.90	426.97
B	623+10.11	0.00	426.70	426.82
C	623+20.01	0.00	426.50	426.64
D	623+29.92	0.00	426.29	426.42
E	623+39.83	0.00	426.09	426.17
☉ North Abut.	623+51.19	0.00	425.86	425.86
Bk. of North Abut.	623+52.46	0.00	425.84	425.84

BEAM 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of South Abut.	622+88.52	2.97	427.26	427.26
☉ South Abut.	622+89.78	2.95	427.24	427.24
A	622+99.67	2.81	427.03	427.10
B	623+09.56	2.72	426.83	426.95
C	623+19.45	2.67	426.62	426.77
D	623+29.37	2.67	426.42	426.55
E	623+39.24	2.72	426.22	426.30
☉ North Abut.	623+50.56	2.84	426.00	426.00
Bk. of North Abut.	623+51.82	2.86	425.97	425.97

BEAM 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of South Abut.	622+87.30	9.33	427.56	427.56
☉ South Abut.	622+88.56	9.31	427.54	427.54
A	622+98.42	9.16	427.33	427.40
B	623+08.28	9.06	427.12	427.25
C	623+18.14	9.01	426.92	427.07
D	623+28.00	9.00	426.72	426.85
E	623+37.87	9.05	426.52	426.60
☉ North Abut.	623+49.15	9.16	426.30	426.30
Bk. of North Abut.	623+50.41	9.17	426.27	426.27

☉ ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of South Abut.	622+86.78	12:00	427.69	427.69
☉ South Abut.	622+88.04	12:00	427.66	427.66
A	622+97.86	12:00	427.46	427.53
B	623+07.68	12:00	427.26	427.39
C	623+17.52	12:00	427.06	427.21
D	623+27.37	12:00	426.86	426.99
E	623+37.23	12:00	426.66	426.74
☉ North Abut.	623+48.52	12:00	426.43	426.43
Bk. of North Abut.	623+49.78	12:00	426.41	426.41

BEAM 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of South Abut.	622+86.08	15:68	427.86	427.86
☉ South Abut.	622+87.34	15:66	427.83	427.83
A	622+97.17	15:51	427.63	427.70
B	623+07.00	15:40	427.42	427.55
C	623+16.83	15:35	427.22	427.37
D	623+26.67	15:34	427.02	427.15
E	623+36.50	15:37	426.82	426.90
☉ North Abut.	623+47.75	15:47	426.60	426.60
Bk. of North Abut.	623+49.01	15:49	426.57	426.57

BEAM 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of South Abut.	622+84.87	22:04	428.16	428.16
☉ South Abut.	622+86.13	22:02	428.13	428.13
A	622+95.93	21:86	427.93	428.00
B	623+05.73	21:75	427.72	427.85
C	623+15.53	21:68	427.52	427.66
D	623+25.34	21:67	427.32	427.45
E	623+35.14	21:70	427.12	427.20
☉ North Abut.	623+46.36	21:79	426.90	426.90
Bk. of North Abut.	623+47.61	21:80	426.87	426.87

BEAM 13

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of South Abut.	622+83.68	28:40	428.46	428.46
☉ South Abut.	622+84.92	28:37	428.43	428.43
A	622+94.70	28:21	428.22	428.30
B	623+04.47	28:09	428.02	428.14
C	623+14.24	28:02	427.82	427.96
D	623+24.02	28:00	427.62	427.75
E	623+33.79	28:02	427.42	427.50
☉ North Abut.	623+44.98	28:11	427.20	427.20
Bk. of North Abut.	623+46.23	28:12	427.17	427.17

BEAM 14

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of South Abut.	622+82.48	34:76	428.75	428.75
☉ South Abut.	622+83.73	34:73	428.73	428.73
A	622+93.47	34:56	428.52	428.58
B	623+03.22	34:44	428.32	428.42
C	623+12.96	34:36	428.12	428.23
D	623+22.71	34:33	427.92	428.02
E	623+32.45	34:35	427.72	427.78
☉ North Abut.	623+43.61	34:43	427.50	427.50
Bk. of North Abut.	623+44.85	34:44	427.47	427.47



DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED

DATE - 06/26/12	REVISED
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS, NORTHBOUND ROADWAY
STRUCTURE NO. 082-0385 NB & 082-0386 SB**

SHEET NO. A6 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	37
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F69	

WEST FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr.	622+73.23	-34.00	425.99
A	622+83.45	-34.00	425.78
B	622+93.68	-34.00	425.57
N. End of South Appr.	623+03.92	-34.00	425.36

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr.	622+71.65	-25.72	426.37
A	622+81.67	-24.91	426.20
B	622+91.74	-24.35	426.02
N. End of South Appr.	623+01.87	-24.05	425.83

☉ ROADWAY

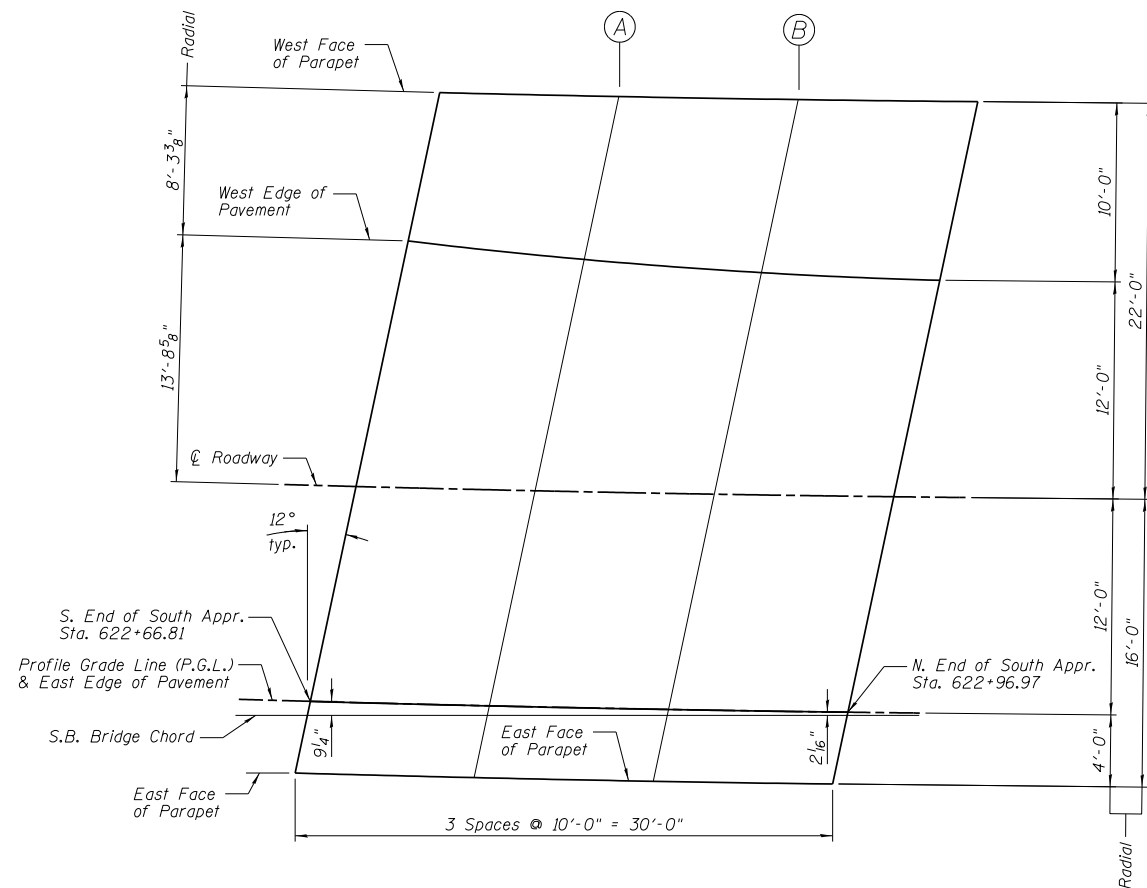
Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr.	622+69.05	-12.00	427.02
A	622+79.16	-12.00	426.81
B	622+89.27	-12.00	426.60
N. End of South Appr.	622+99.40	-12.00	426.40

PROFILE GRADE LINE (P.G.L.) & EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr.	622+66.81	0.00	427.58
A	622+76.85	0.00	427.37
B	622+86.91	0.00	427.17
N. End of South Appr.	622+96.97	0.00	426.96

EAST FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr.	622+66.06	4.00	427.77
A	622+76.09	4.00	427.56
B	622+86.13	4.00	427.36
N. End of South Appr.	622+96.17	4.00	427.15



SOUTH APPROACH SLAB PLAN

WEST FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr.	623+69.72	-34.00	424.02
A	623+80.04	-34.00	423.81
B	623+90.38	-34.00	423.60
N. End of North Appr.	624+00.72	-34.00	423.39

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr.	623+67.31	-24.00	424.50
A	623+77.58	-24.00	424.29
B	623+87.86	-24.00	424.08
N. End of North Appr.	623+98.16	-24.00	423.87

☉ ROADWAY

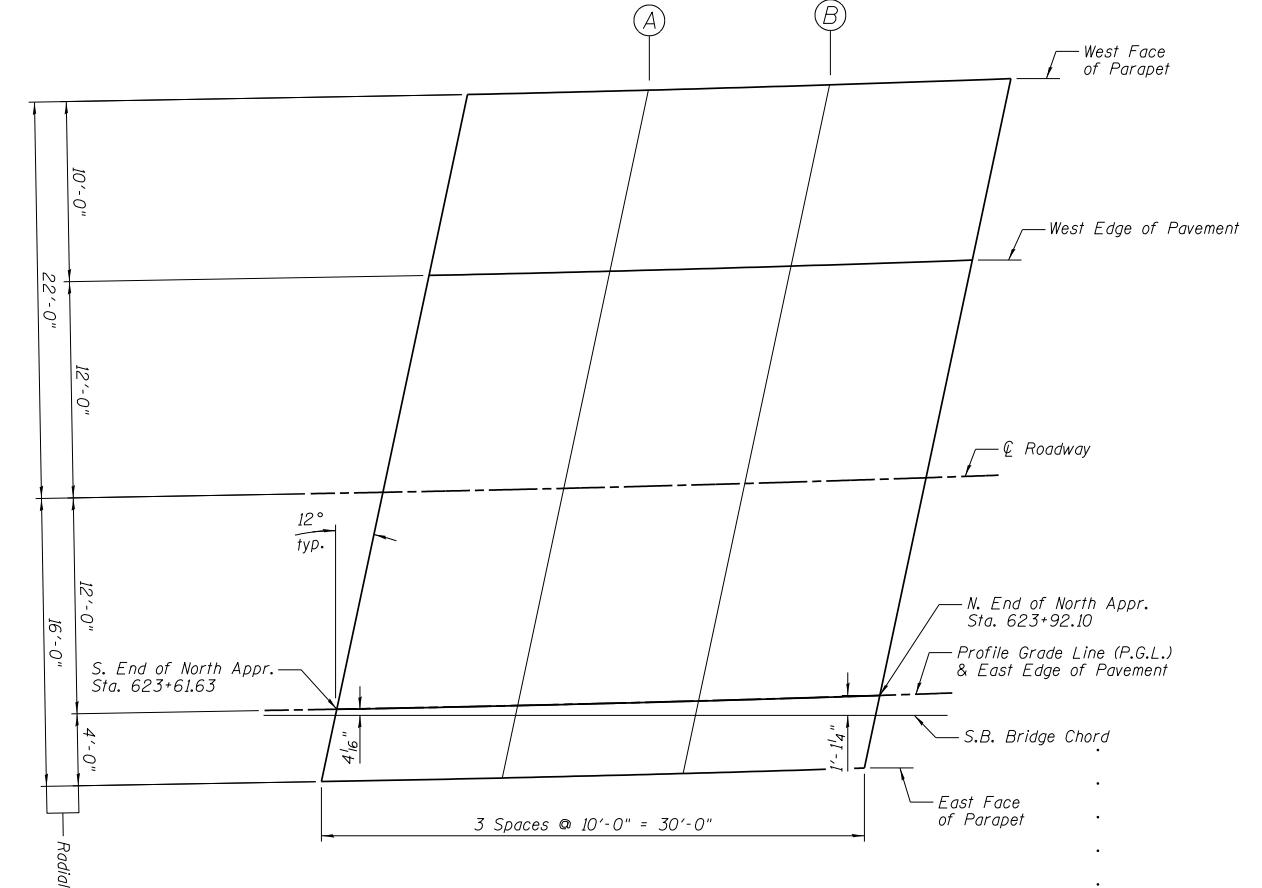
Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr.	623+64.45	-12.00	425.08
A	623+74.66	-12.00	424.87
B	623+84.88	-12.00	424.66
N. End of North Appr.	623+95.11	-12.00	424.45

PROFILE GRADE LINE (P.G.L.) & EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr.	623+61.63	0.00	425.65
A	623+71.78	0.00	425.44
B	623+81.93	0.00	425.24
N. End of North Appr.	623+92.10	0.00	425.03

EAST FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr.	623+60.70	4.00	425.84
A	623+70.82	4.00	425.63
B	623+80.96	4.00	425.43
N. End of North Appr.	623+91.10	4.00	425.22



NORTH APPROACH SLAB PLAN

WEST FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr.	•622+60.05	-3:00	427.59
A	•622+69.92	-3:00	427.39
B	•622+79.79	-3:00	427.18
N. End of South Appr.	•622+89.67	-3:00	426.98

PROFILE GRADE LINE (P.G.L.) & WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr.	•622+59.52	0:00	427.73
A	•622+69.37	0:00	427.53
B	•622+79.22	0:00	427.33
N. End of South Appr.	•622+89.09	0:00	427.12

☉ ROADWAY

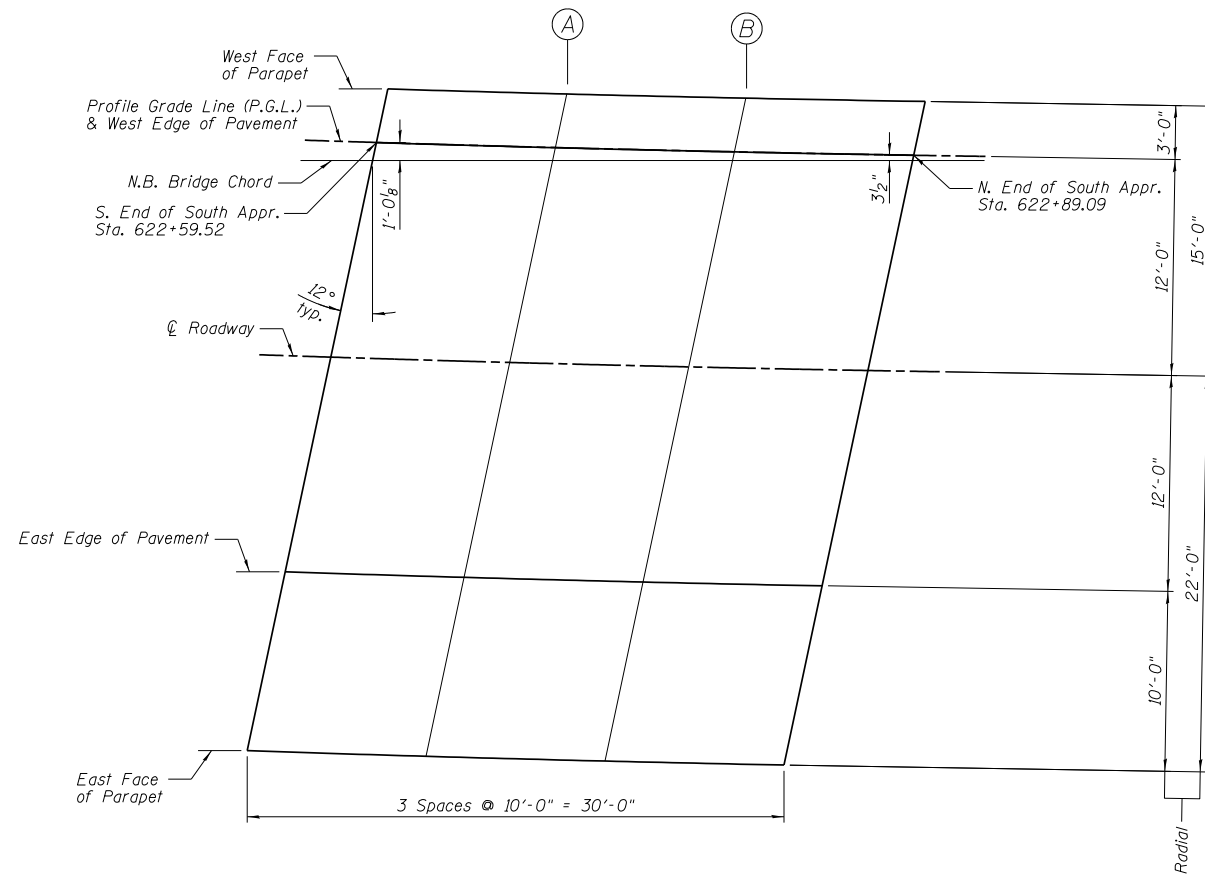
Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr.	•622+57.38	12:00	428.29
A	•622+67.17	12:00	428.09
B	•622+76.97	12:00	427.89
N. End of South Appr.	•622+86.78	12:00	427.69

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr.	•622+55.28	24:00	428.84
A	•622+65.01	24:00	428.65
B	•622+74.75	24:00	428.45
N. End of South Appr.	•622+84.50	24:00	428.25

EAST FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr.	•622+53.54	34:00	429.31
A	•622+63.22	34:00	429.11
B	•622+72.92	34:00	428.92
N. End of South Appr.	•622+82.62	34:00	428.72



SOUTH APPROACH SLAB PLAN

WEST FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr.	•623+53.14	-3:00	425.69
A	•623+63.09	-3:00	425.49
B	•623+73.06	-3:00	425.29
N. End of North Appr.	•623+83.04	-3:00	425.08

PROFILE GRADE LINE (P.G.L.) & WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr.	•623+52.46	0:00	425.84
A	•623+62.40	0:00	425.63
B	•623+72.35	0:00	425.43
N. End of North Appr.	•623+82.32	0:00	425.23

☉ ROADWAY

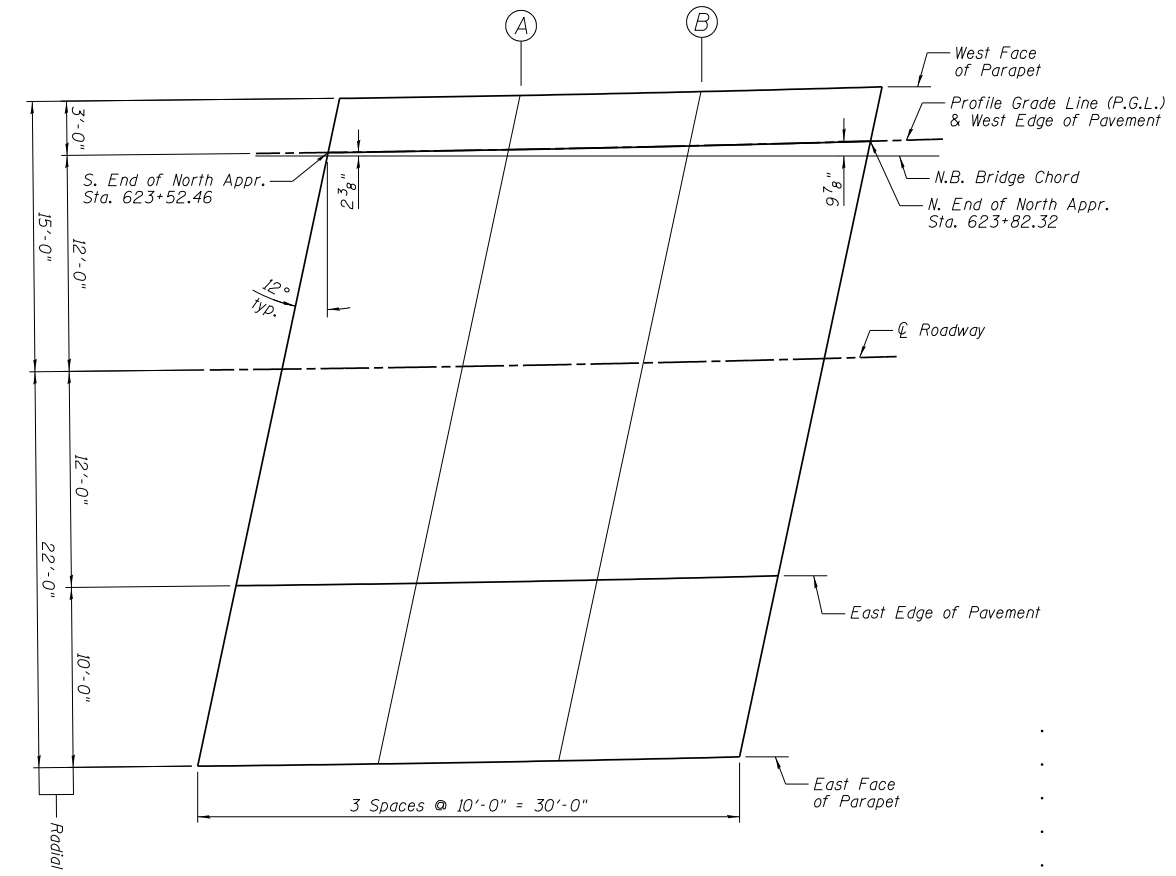
Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr.	•623+49.78	12:00	426.41
A	•623+59.66	12:00	426.20
B	•623+69.55	12:00	426.00
N. End of North Appr.	•623+79.46	12:00	425.80

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr.	•623+47.13	24:00	426.98
A	•623+56.95	24:00	426.78
B	•623+66.79	24:00	426.58
N. End of North Appr.	•623+76.63	24:00	426.38

EAST FACE OF PARAPET

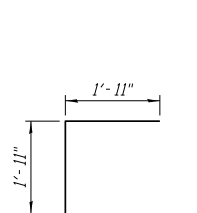
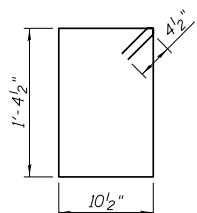
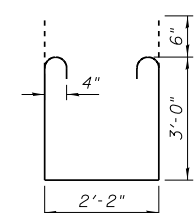
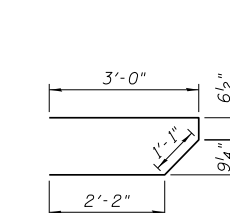
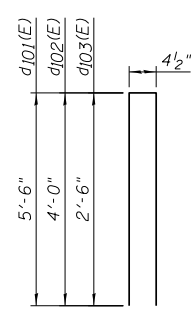
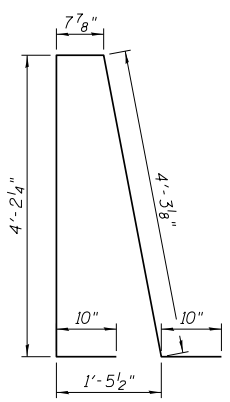
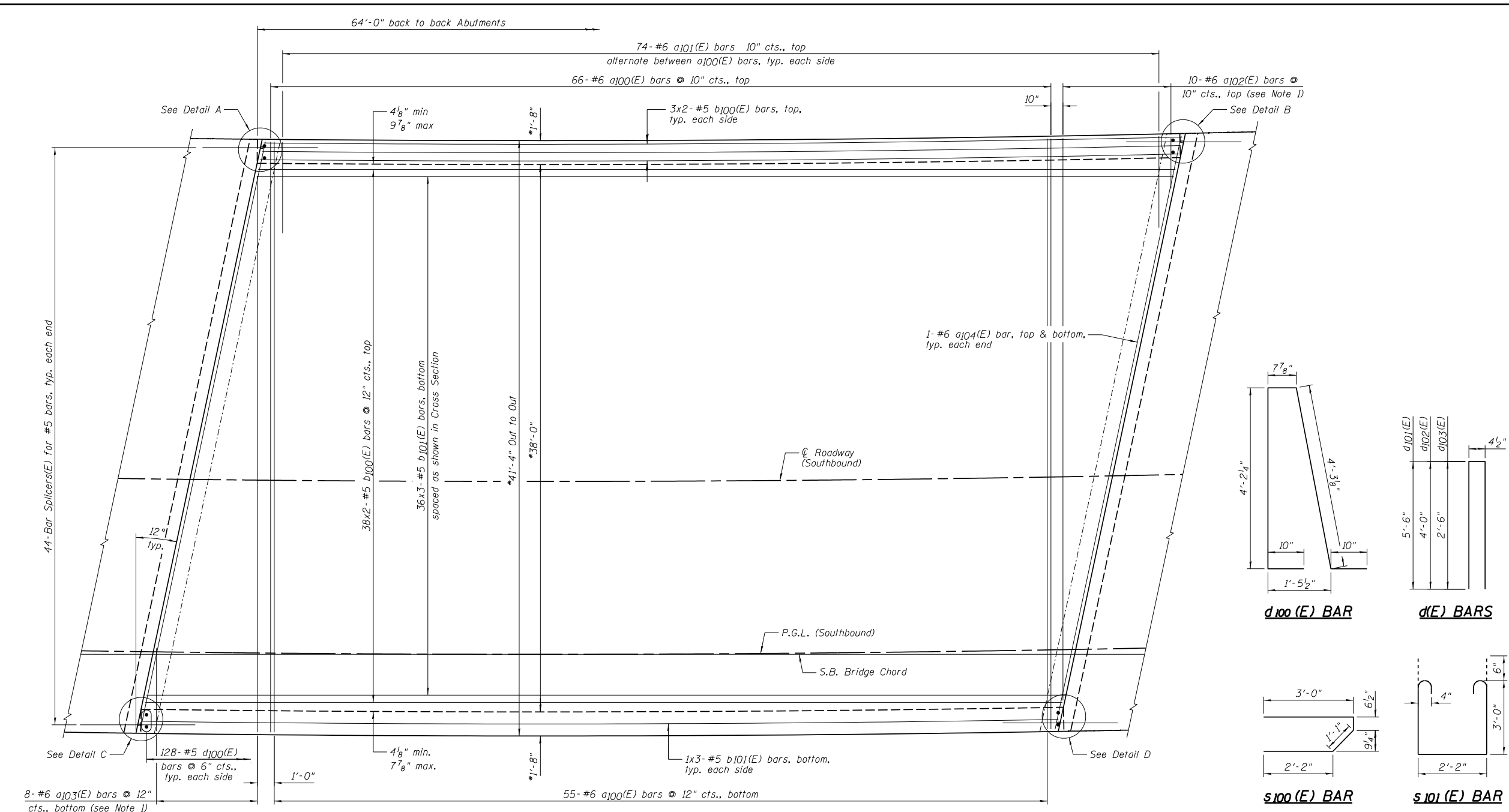
Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr.	•623+44.95	34:00	427.45
A	•623+54.72	34:00	427.25
B	•623+64.50	34:00	427.05
N. End of North Appr.	•623+74.30	34:00	426.85



NORTH APPROACH SLAB PLAN

**SUPERSTRUCTURE
BILL OF MATERIAL**

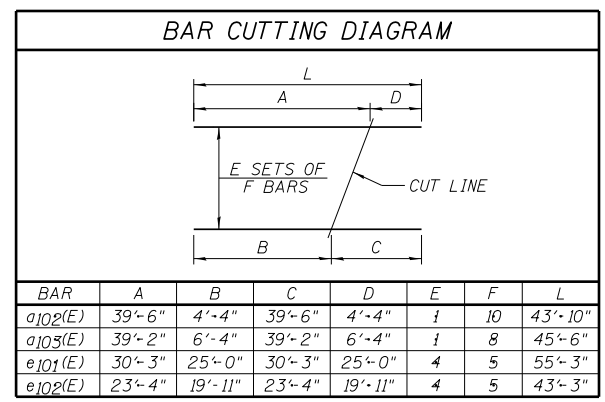
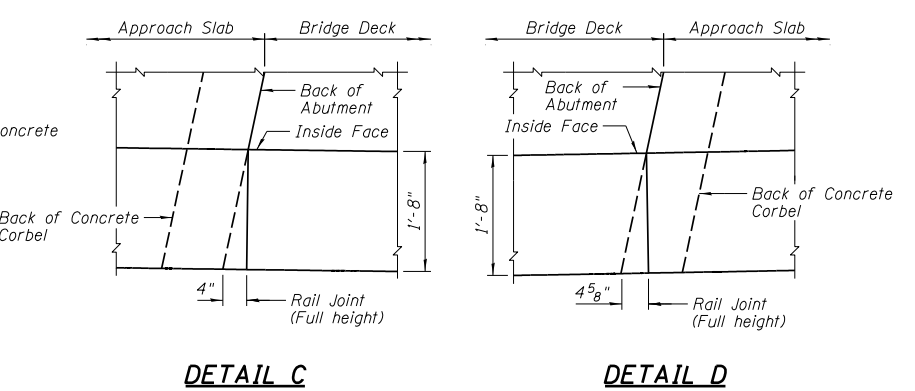
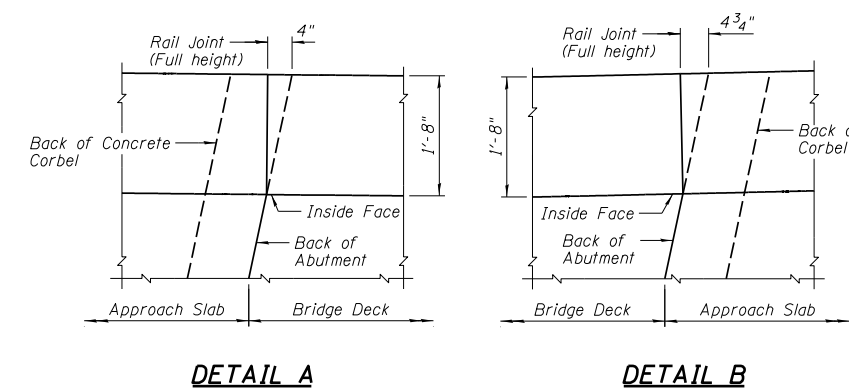
Bar	No.	Size	Length	Shape
a100(E)	121	#6	41'-0"	—
a101(E)	148	#6	6'-6"	—
a102(E)	10	#6	43'-10"	—
a103(E)	8	#6	45'-6"	—
a104(E)	4	#6	41'-11"	—
b100(E)	88	#5	33'-2"	—
b101(E)	114	#5	23'-0"	—
d100(E)	256	#5	10'-9"	⌒
d101(E)	196	#5	11'-5"	⌒
d102(E)	36	#5	8'-5"	⌒
d103(E)	16	#5	5'-5"	⌒
e100(E)	40	#6	31'-8"	—
e101(E)	20	#4	55'-3"	—
e102(E)	20	#8	43'-3"	—
e103(E)	8	#4	14'-8"	—
m100(E)	10	#6	41'-11"	—
m101(E)	20	#6	10'-0"	—
m102(E)	12	#6	6'-3"	—
m103(E)	8	#6	6'-0"	—
s100(E)	90	#5	6'-10"	⌒
s101(E)	76	#4	9'-2"	⌒
s104(E)	160	#3	5'-3"	⌒
v100(E)	86	#5	3'-10"	⌒
Item Unit Quantity				
Concrete Superstructure	Cu. Yd.	170.1		
Reinforcement Bars, Epoxy Coated	Pound	29,650		



PLAN

*Indicates dimension are measured radially.

BAR LAP
#5 - 2'-7"



NOTES:

- Order a102(E) and a103(E) bars full length. Cut according to Bar Cutting Diagram. Use remainder of bars on opposite end of deck.
- Bars indicated thus 1x3- #5 etc. indicates 1 lines of bars with 3 lengths per line.
- See Sheet A38 for Bar Splicer Details.
- See Sheets A12, A14 & A15 for Rail Details.



DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED

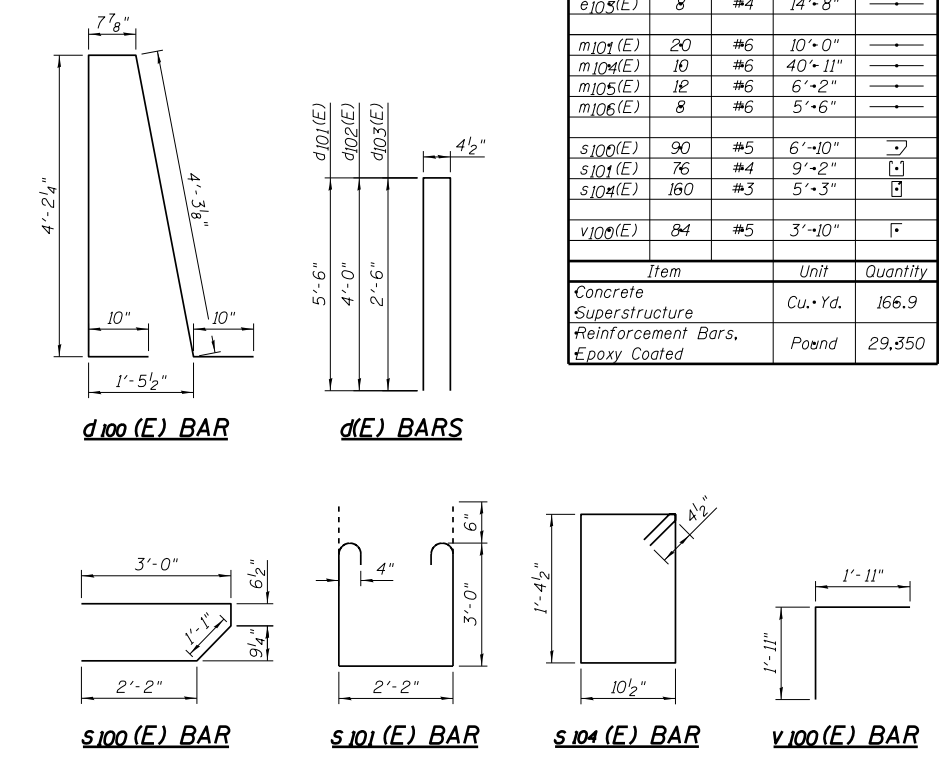
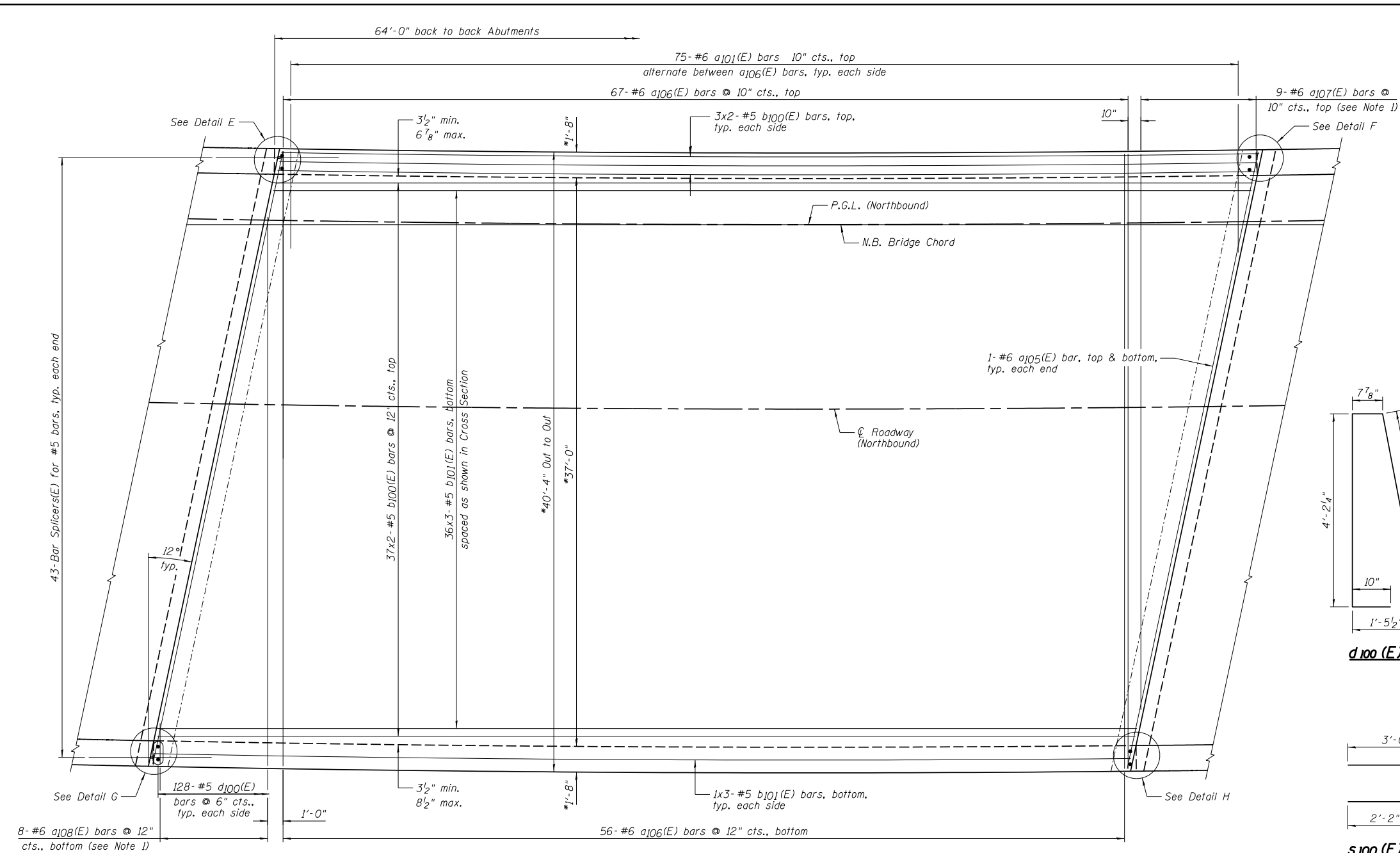
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DECK, SOUTHBOUND ROADWAY
STRUCTURE NO. 082-0385 NB & 082-0386 SB**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	40
CONTRACT NO. 76F69				

**SUPERSTRUCTURE
BILL OF MATERIAL**

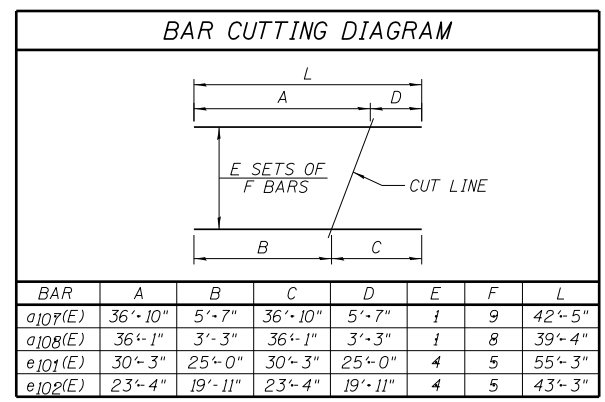
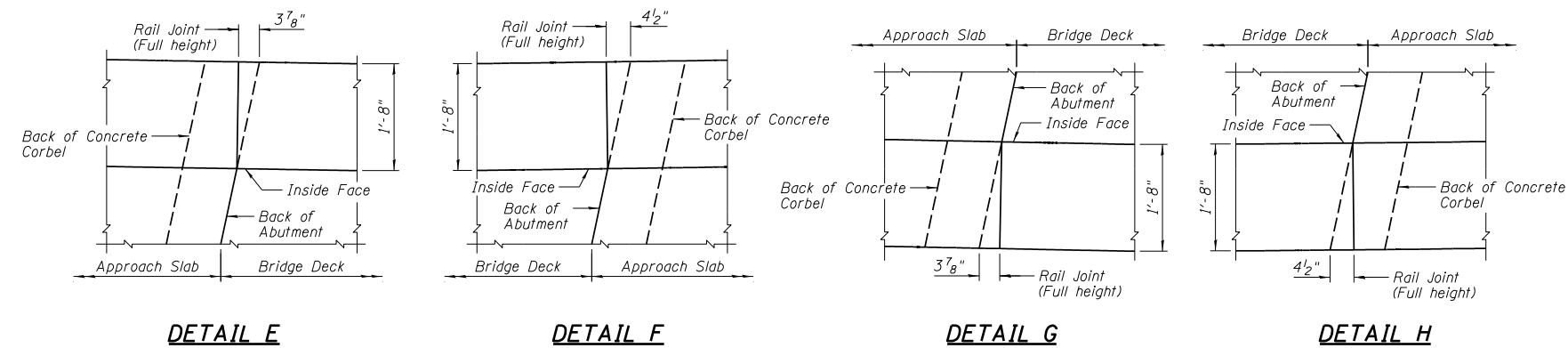
Bar	No.	Size	Length	Shape
a107(E)	150	#6	6'-6"	—
a105(E)	4	#6	40'-11"	—
a106(E)	123	#6	40'-0"	—
a107(E)	9	#6	42'-5"	—
a108(E)	8	#6	39'-4"	—
b100(E)	86	#5	33'-2"	—
b101(E)	114	#5	23'-0"	—
d100(E)	256	#5	10'-9"	R
d101(E)	196	#5	11'-5"	R
d102(E)	36	#5	8'-5"	R
d103(E)	16	#5	5'-5"	R
e100(E)	40	#6	31'-8"	—
e101(E)	20	#4	55'-3"	—
e102(E)	20	#8	43'-3"	—
e103(E)	8	#4	14'-8"	—
m101(E)	20	#6	10'-0"	—
m104(E)	10	#6	40'-11"	—
m105(E)	12	#6	6'-2"	—
m106(E)	8	#6	5'-6"	—
s100(E)	90	#5	6'-10"	—
s101(E)	76	#4	9'-2"	—
s104(E)	160	#3	5'-3"	—
v100(E)	84	#5	3'-10"	—
Item Unit Quantity				
Concrete			Cu. Yd.	166.9
Superstructure Reinforcement Bars, Epoxy Coated			Pound	29,350



PLAN

*Indicates dimension are measured radially.

BAR LAP
#5 - 2'-7"



NOTES:

- Order a107(E) and a108(E) bars full length. Cut according to Bar Cutting Diagram. Use remainder of bars on opposite end of deck.
- Bars indicated thus 1x3-#5 etc. indicates 1 lines of bars with 3 lengths per line.
- See Sheet A38 for Bar Splicer Details.
- See Sheets A13-A15 for Rail Details.



DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED

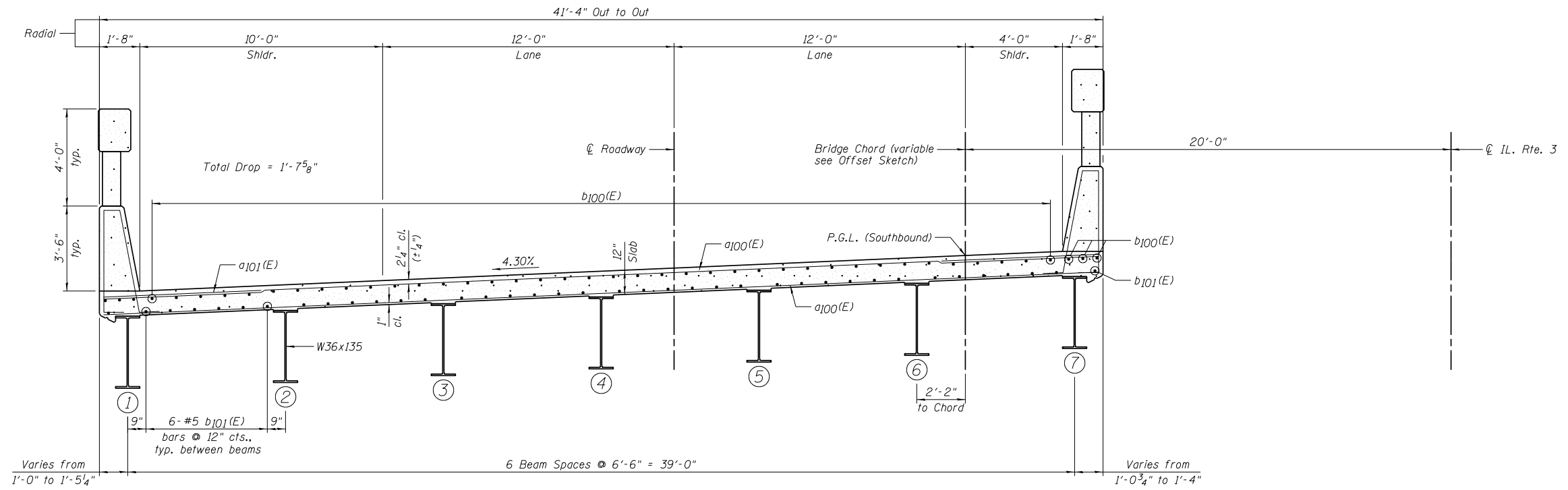
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DECK, NORTHBOUND ROADWAY
STRUCTURE NO. 082-0385 NB & 082-0386 SB**

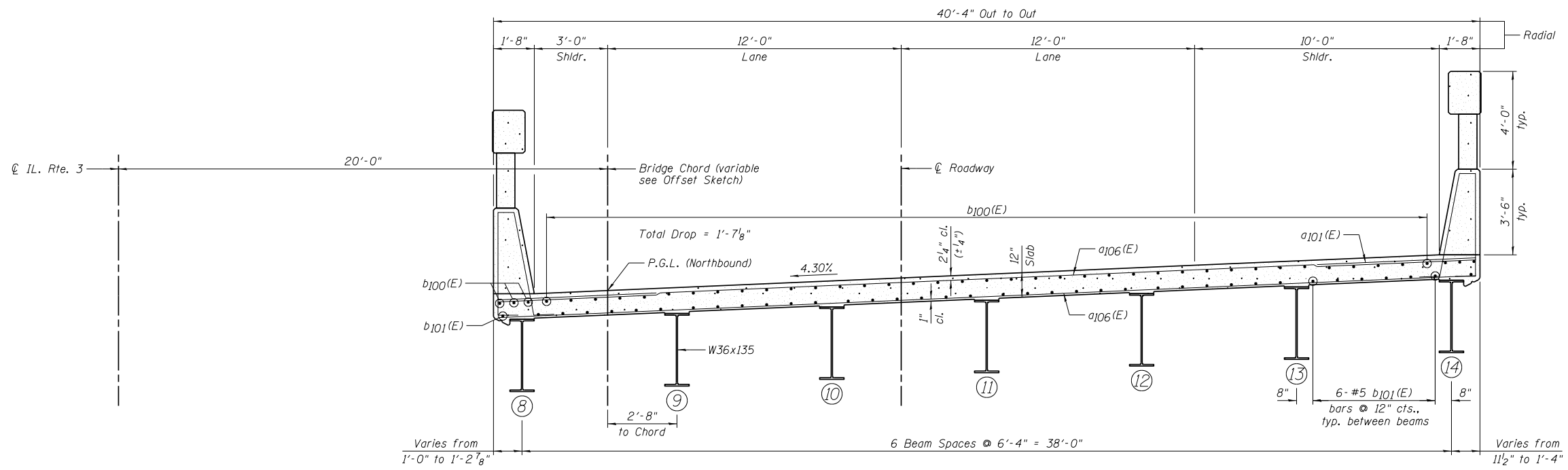
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	41
CONTRACT NO. 76F69				

SHEET NO. A10 OF 48 SHEETS

ILLINOIS FED. AID PROJECT



CROSS SECTION
(Looking upstation)



CROSS SECTION
(Looking upstation)

NOTES:

- 1.) See Sheet A9 or A10 for the applicable Bill of Material.
- 2.) See Sheets A12-A15 for Rail Details.
- 3.) Stud Shear Connectors are not shown for clarity.



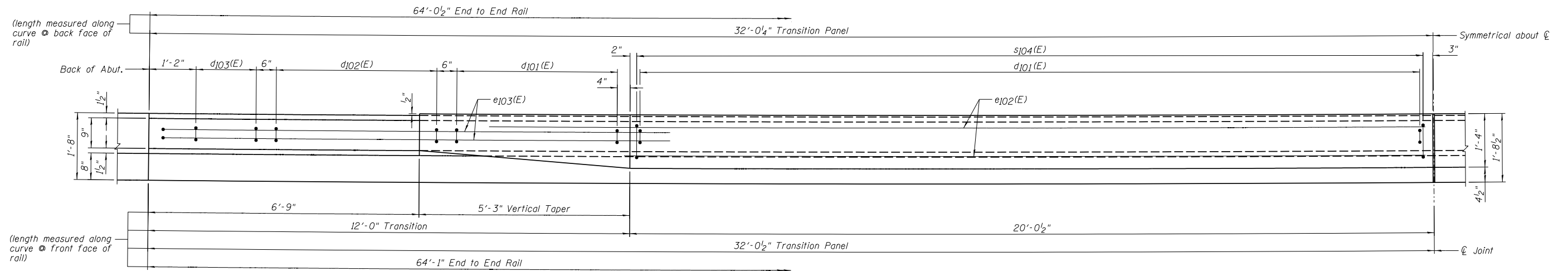
DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED
DATE - 06/26/12	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

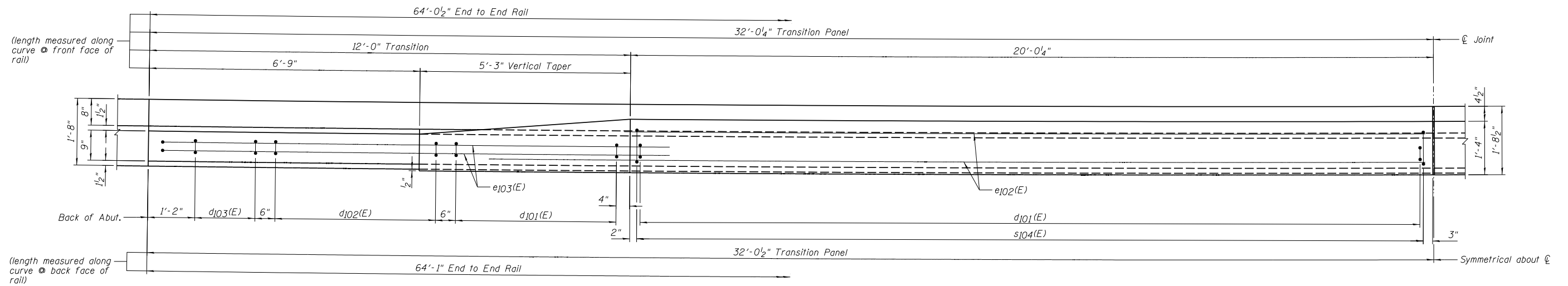
SUPERSTRUCTURE CROSS SECTIONS
STRUCTURE NO. 082-0385 NB & 082-0386 SB

SHEET NO. A11 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	42
CONTRACT NO. 76F69			ILLINOIS FED. AID PROJECT	



PARTIAL PLAN WEST RAIL



PARTIAL PLAN EAST RAIL



NOTES:

- 1.) See Sheet A14 for Elevations and Sheet A15 for Sections.
- 2.) See Sheet A9 for Superstructure Details and Bill of Material.



DESIGNED - TCR/JCZ	REVISED
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DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED
DATE - 06/26/12	

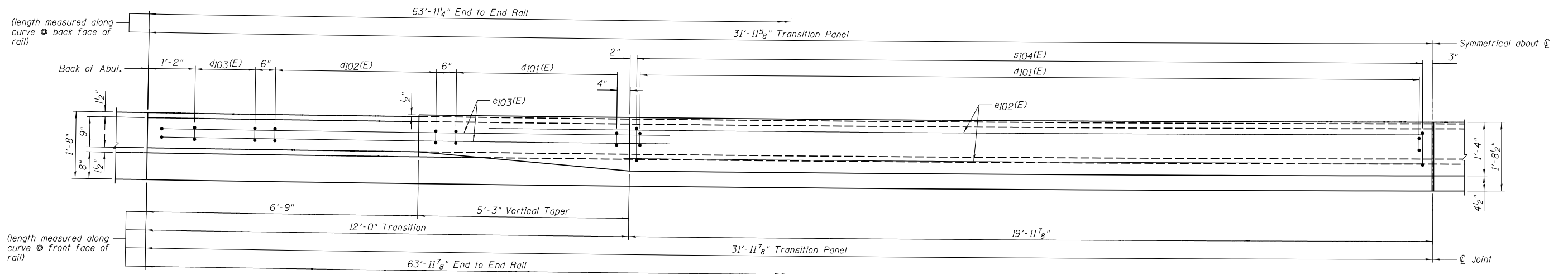
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAIL DETAILS, SOUTHBOUND ROADWAY
STRUCTURE NO. 082-0385 NB & 082-0386 SB**

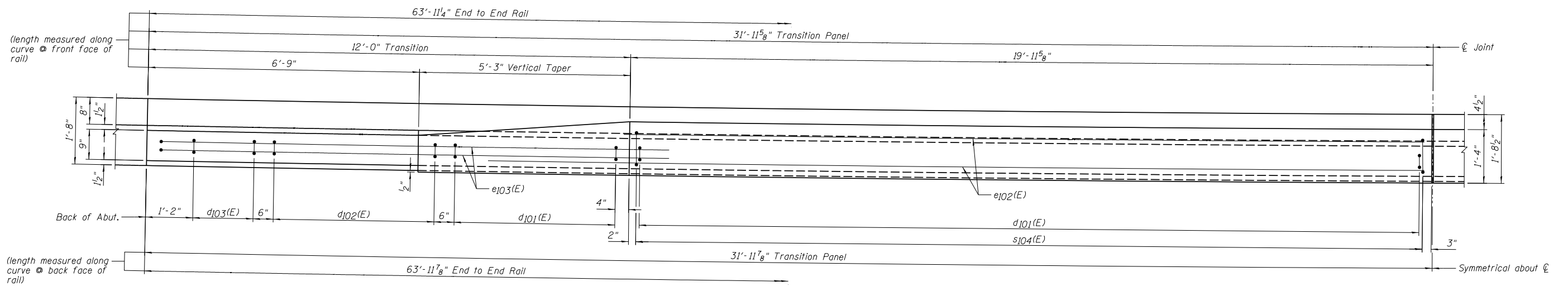
SHEET NO. A12 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	43
CONTRACT NO. 76F69				

ILLINOIS FED. AID PROJECT



PARTIAL PLAN WEST RAIL



PARTIAL PLAN EAST RAIL



NOTES:

- 1.) See Sheet A14 for Elevations and Sheet A15 for Sections.
- 2.) See Sheet A10 for Superstructure Details and Bill of Material.



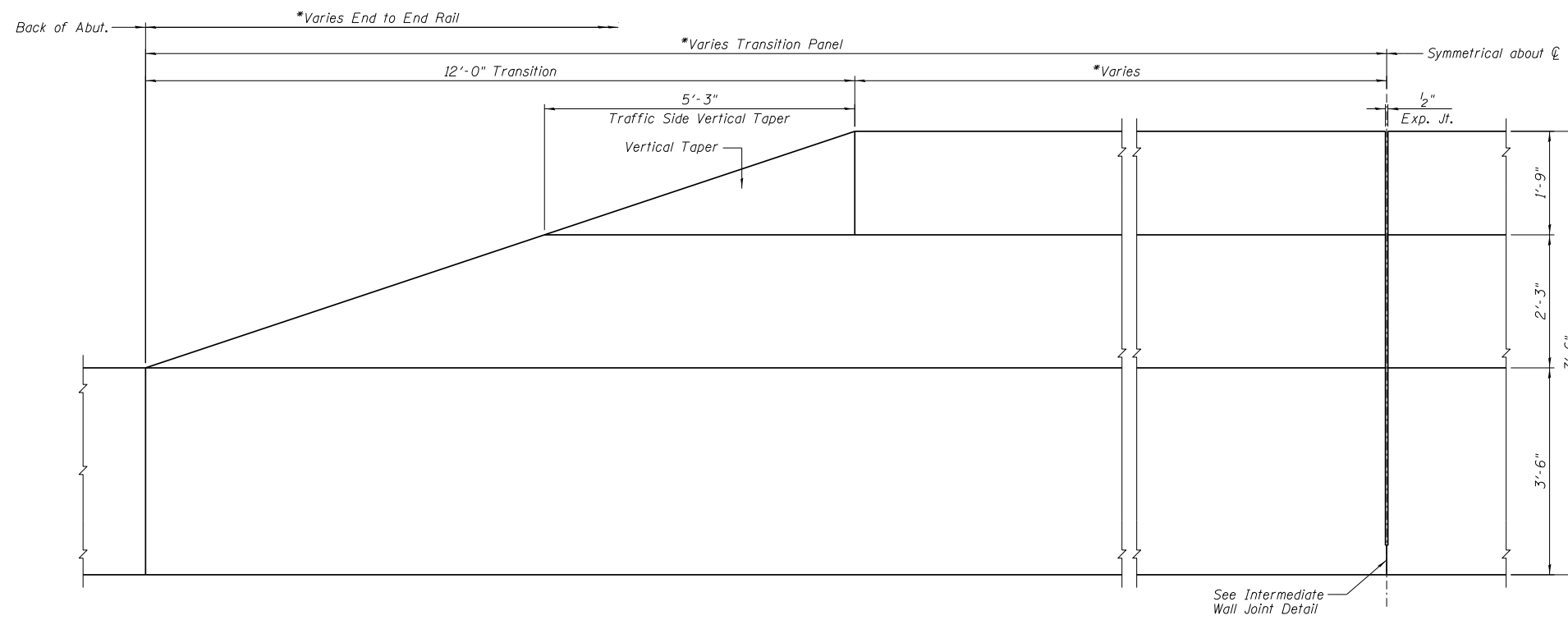
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CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED
DATE - 06/26/12	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

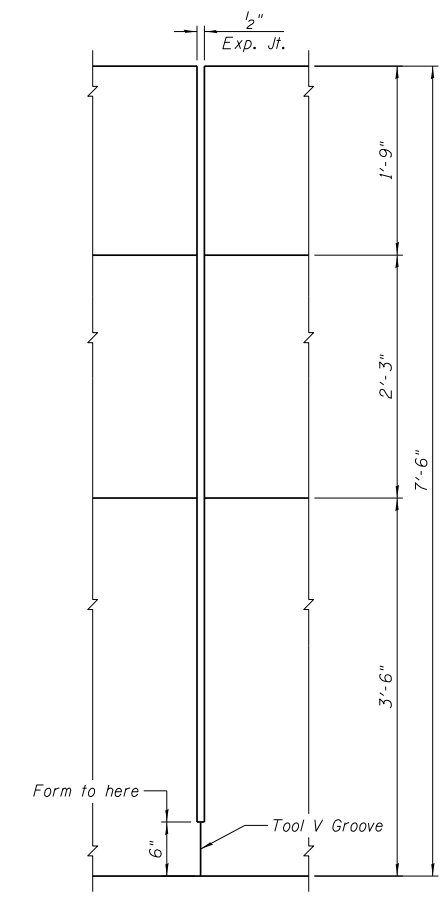
**RAIL DETAILS, NORTHBOUND ROADWAY
STRUCTURE NO. 082-0385 NB & 082-0386 SB**

SHEET NO. A13 OF 48 SHEETS

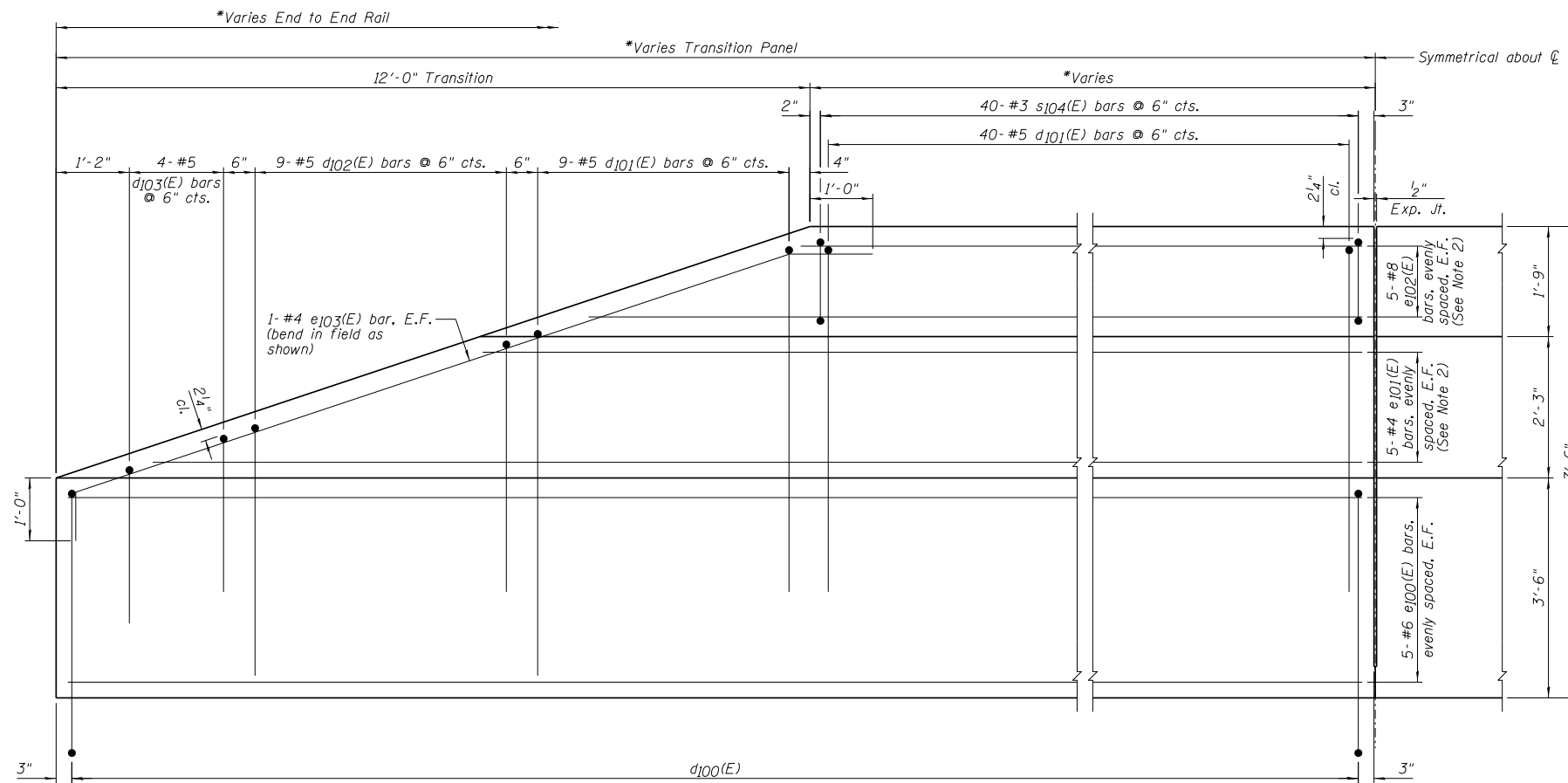
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	44
CONTRACT NO. 76F69			ILLINOIS FED. AID PROJECT	



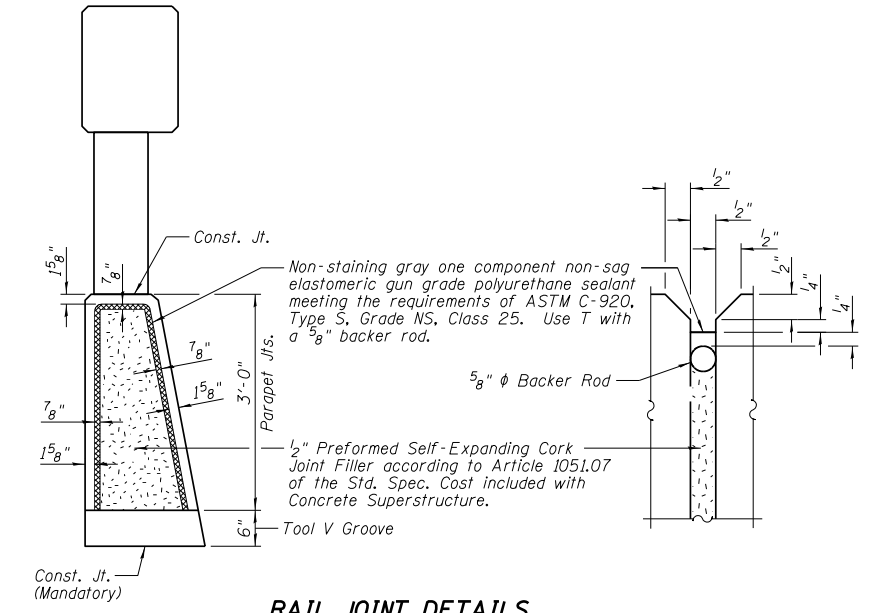
INSIDE ELEVATION OF RAIL



INTERMEDIATE WALL JOINT DETAIL



INSIDE ELEVATION SHOWING TYPICAL REINFORCEMENT



RAIL JOINT DETAILS

NOTES:

- 1.) *See Sheets A12 & A13 for dimensions.
- 2.) Order e101(E) & e102(E) bars full length. Cut according to Bar Cutting Diagram on Sheets A9 & A10. Use remainder of bars on opposite end of rail.
- 3.) See Sheets A9 & A10 for Superstructure Details and Bill of Material.



DESIGNED - TCR/JCZ	REVISION
CHECKED - JML	REVISION
DRAWN - DJM/JWK	REVISION
CHECKED - MSW	REVISION
DATE - 06/26/12	

DESIGNED - TCR/JCZ	REVISION
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DRAWN - DJM/JWK	REVISION
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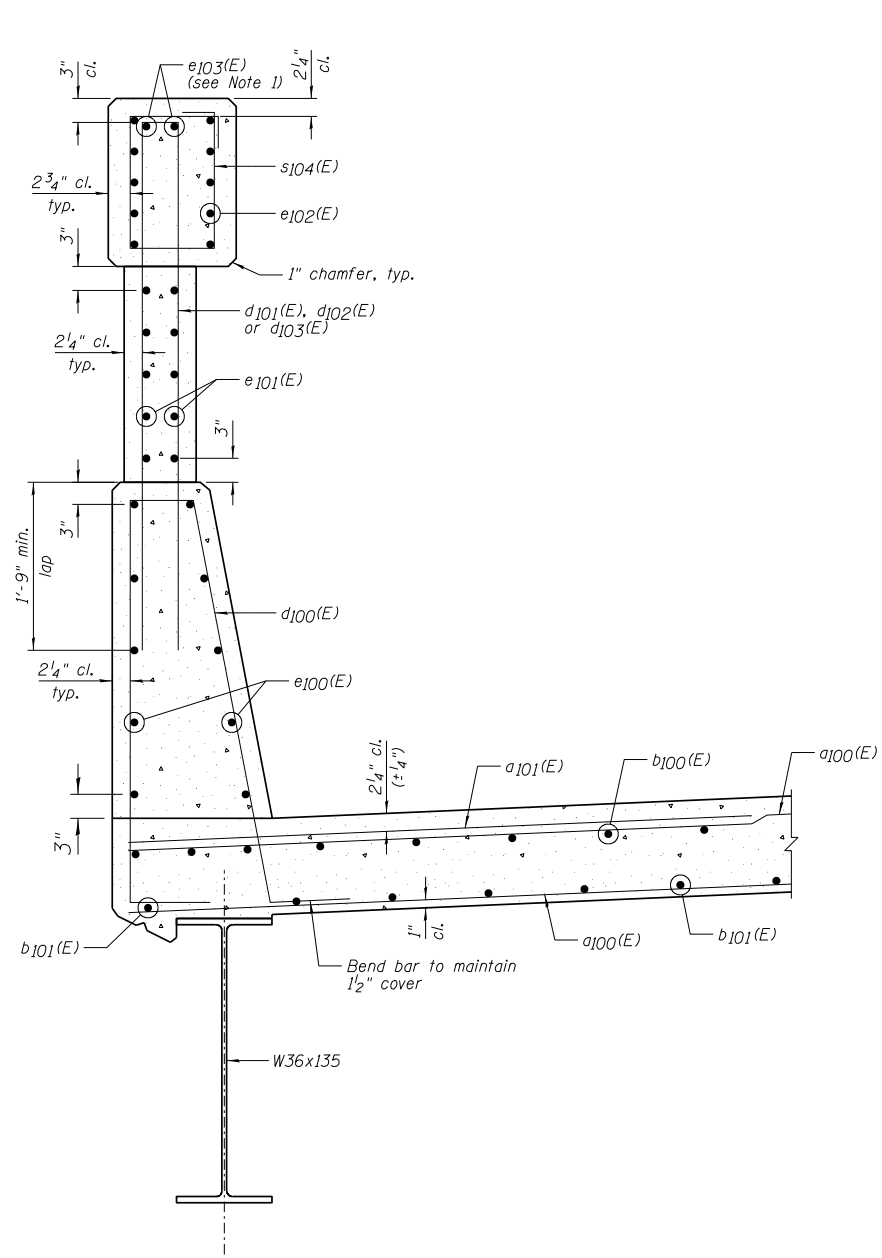
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RAIL DETAILS
STRUCTURE NO. 082-0385 NB & 082-0386 SB**

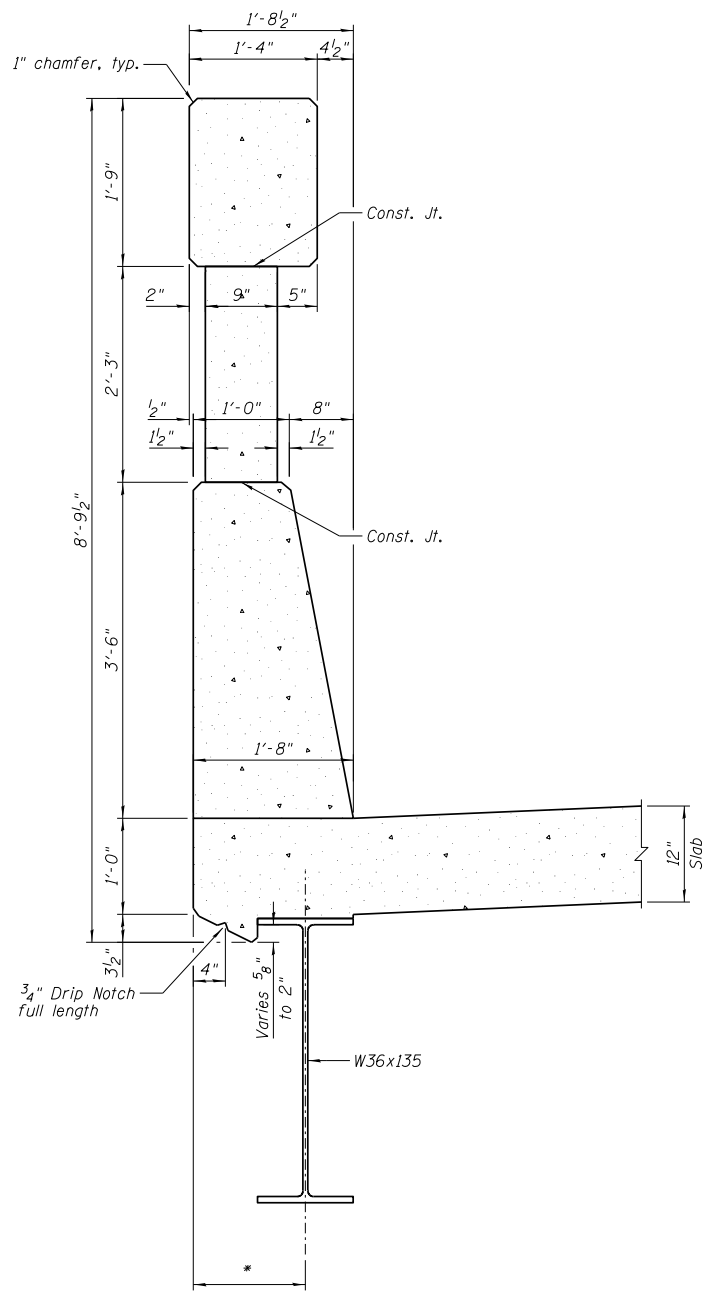
SHEET NO. A14 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	45
CONTRACT NO. 76F69				

ILLINOIS FED. AID PROJECT



SHOWING REINFORCEMENT



SHOWING DIMENSIONS

SECTION THRU RAIL

Southbound Bridge:
 *Varies from 1'-0" to 1'-5 1/4" (West Beam)
 or 1'-0 3/4" to 1'-4" (East Beam)
 Northbound Bridge:
 *Varies from 1'-0" to 1'-2 7/8" (West Beam)
 or 1 1/2" to 1'-4" (East Beam)

GENERAL NOTES:

- 1.) This rail has been evaluated and approved to be of equal strength to railings with like geometry, which have been crash tested to meet NCHRP Report 350 TL-6 Criteria.
- 2.) A Future Wearing Surface is not permitted with the use of this rail.
- 3.) Average weight of railing is 1,300 PLF.

NOTES:

- 1.) e103(E) bars required in 12'-0" Transition located in the Transition Panel. See "Inside Elevation Showing Typical Reinforcement".
- 2.) See Sheets A9 & A10 for Superstructure Details and Bill of Material.
- 3.) Slab overhang should not exceed 1'-0" beyond edge of beam top flange.



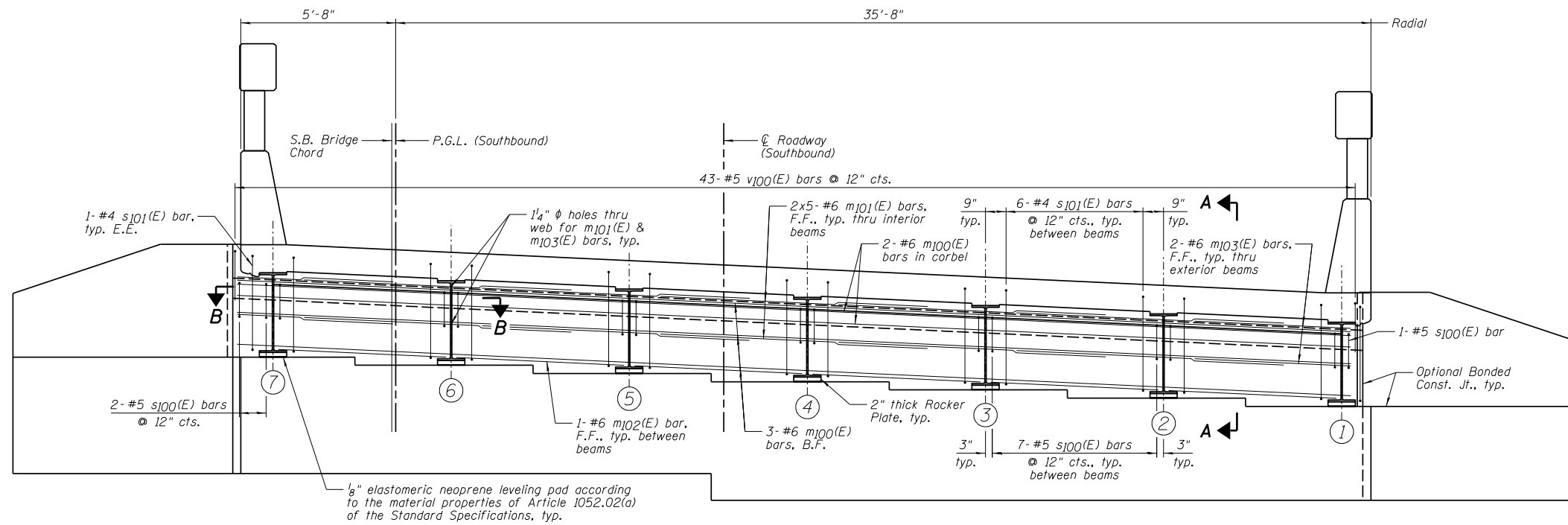
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CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED
DATE - 06/26/12	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

RAIL DETAILS
 STRUCTURE NO. 082-0385 NB & 082-0386 SB

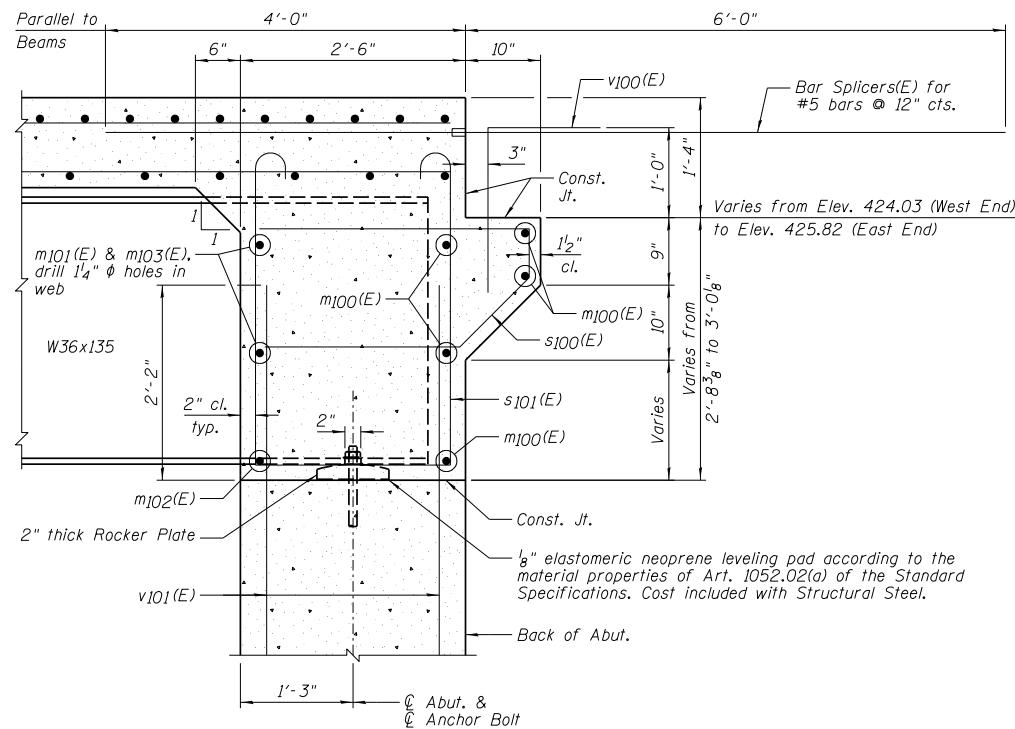
SHEET NO. A15 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	46
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				



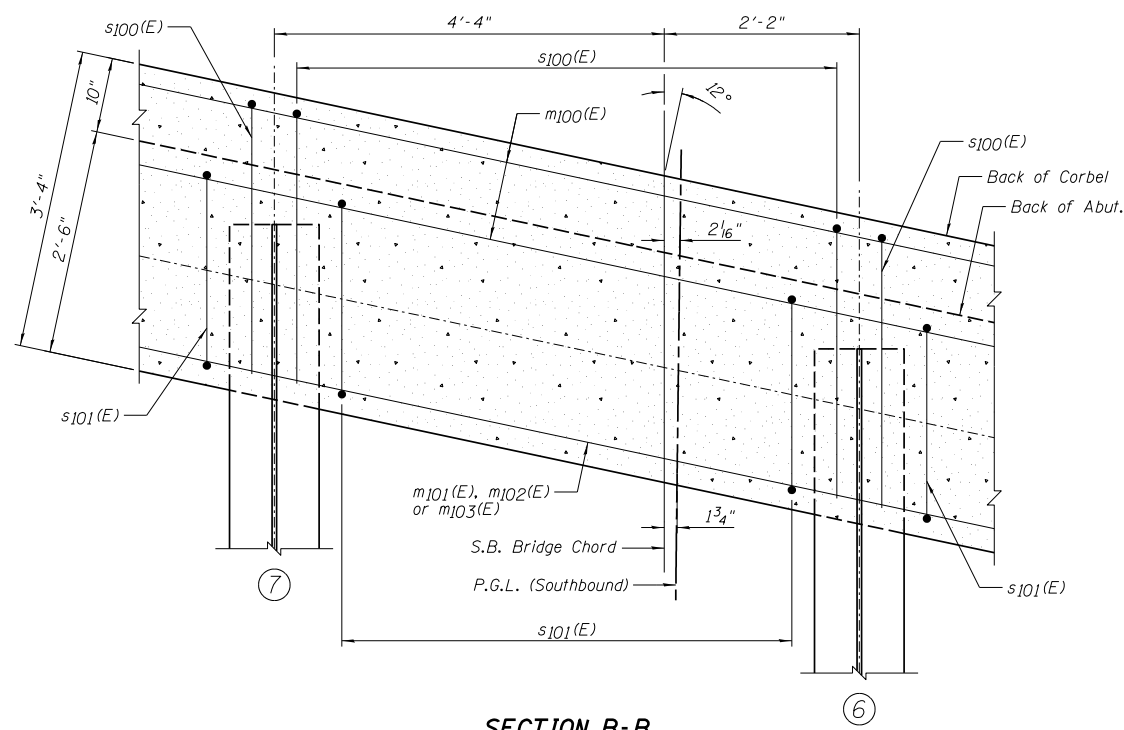
ELEVATION OF DIAPHRAGM AT SOUTH ABUTMENT
(Looking South)

BAR LAP
#6 - 3'-4"



SECTION A-A

Dimensions @ Rt. L's except as noted.



SECTION B-B

NOTES:

- 1.) See Sheet A9 for Superstructure Details and Bill of Material.
- 2.) See Sheet A27 for Fixed Bearing Details.
- 3.) F.F. denotes Front Face, B.F. denotes Back Face and E.E. denotes Each End.
- 4.) See Sheet A38 for Bar Splicer Details.
- 5.) Bars indicated thus 2x5-#6 indicates 2 lines of bars with 5 lengths per line.
- 6.) The s100(E) and s101(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.



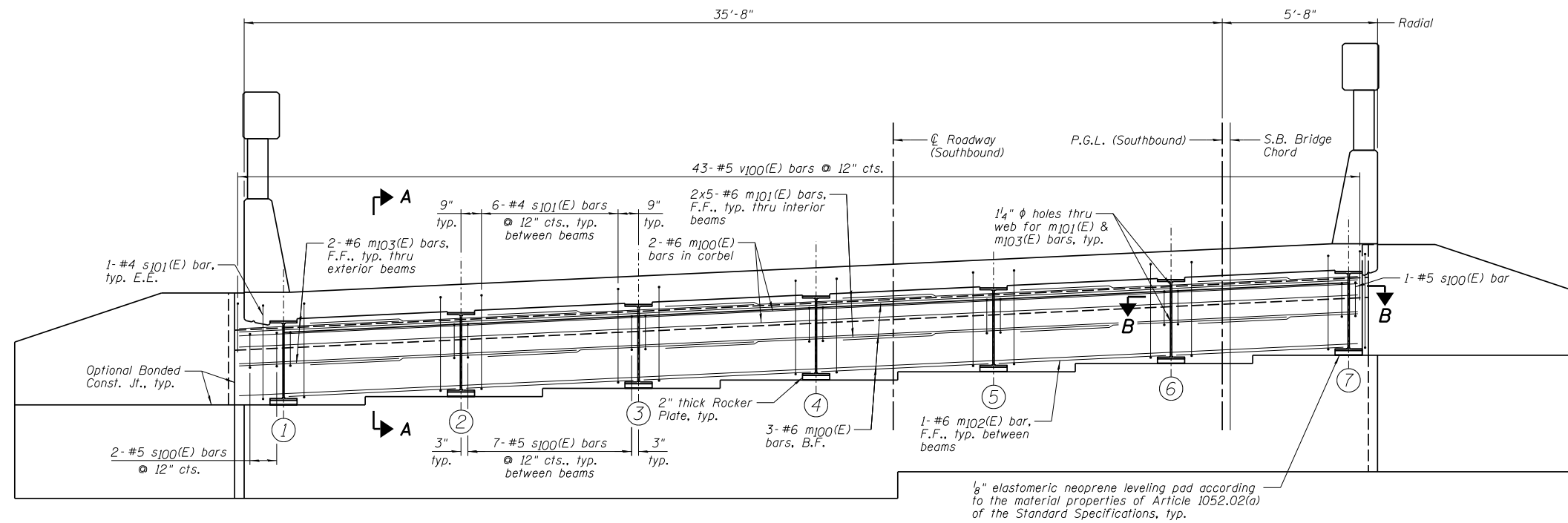
DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED
DATE - 06/26/12	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH DIAPHRAGM DETAILS, SOUTHBOUND ROADWAY
STRUCTURE NO. 082-0385 NB & 082-0386 SB

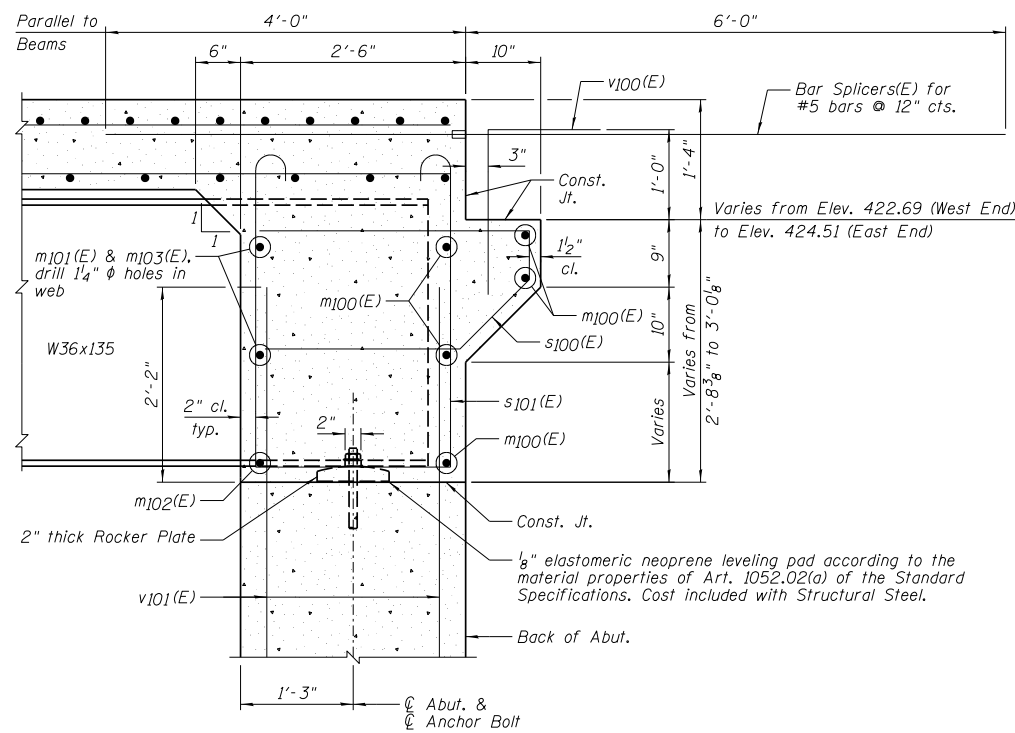
SHEET NO. A16 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	47
CONTRACT NO. 76F69			ILLINOIS FED. AID PROJECT	



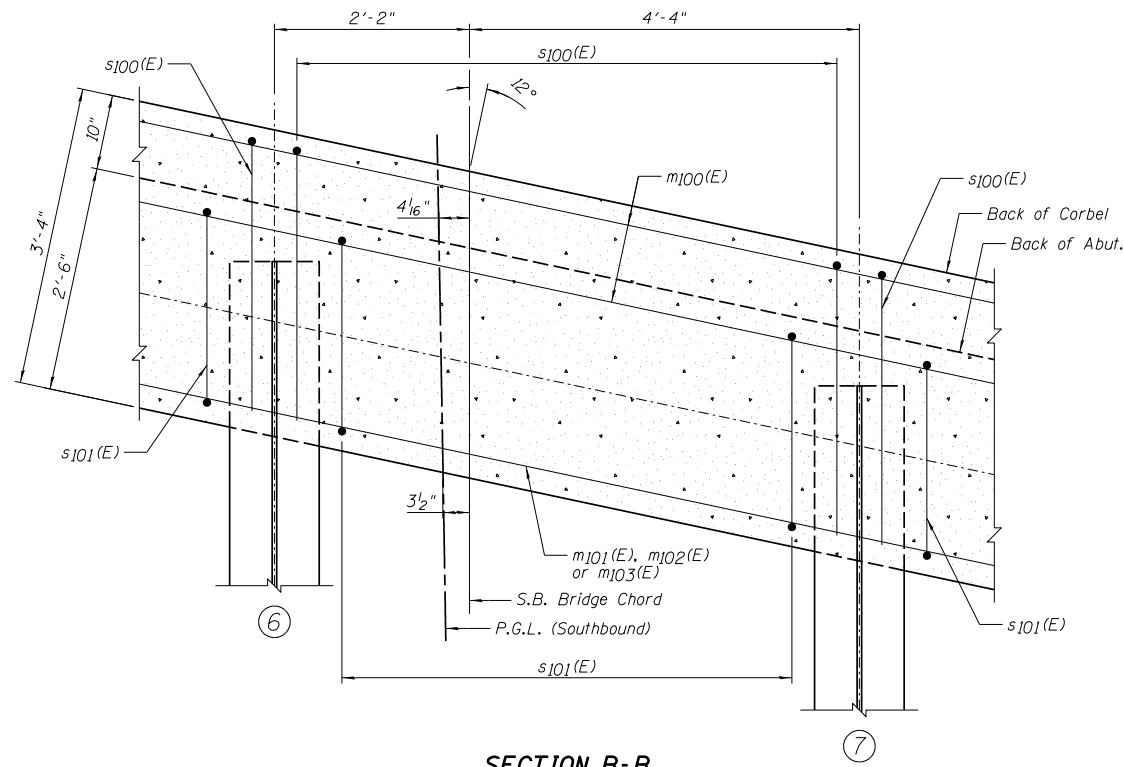
ELEVATION OF DIAPHRAGM AT NORTH ABUTMENT
(Looking North)

BAR LAP
#6 - 3'-4"



SECTION A-A

Dimensions @ Rt. L's except as noted.



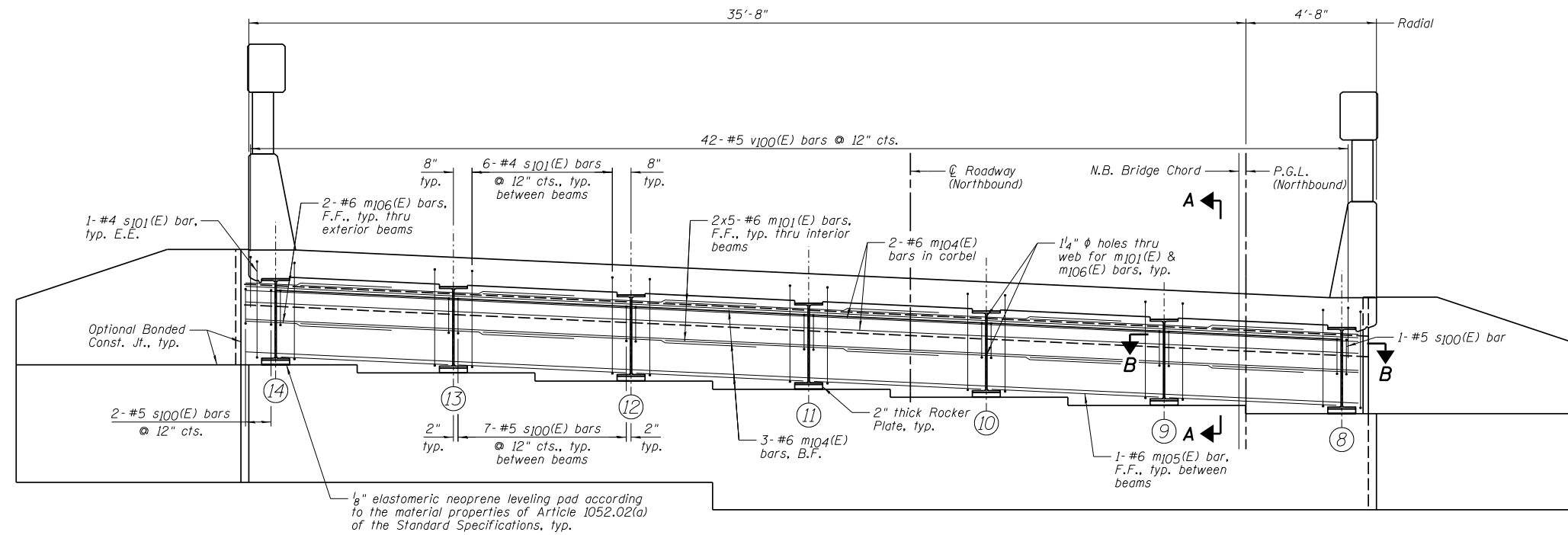
SECTION B-B

NOTES:

- 1.) See Sheet A9 for Superstructure Details and Bill of Material.
- 2.) See Sheet A27 for Fixed Bearing Details.
- 3.) F.F. denotes Front Face, B.F. denotes Back Face and E.E. denotes Each End.
- 4.) See Sheet A38 for Bar Splicer Details.
- 5.) Bars indicated thus 2x5-#6 indicates 2 lines of bars with 5 lengths per line.
- 6.) The s100(E) and s101(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

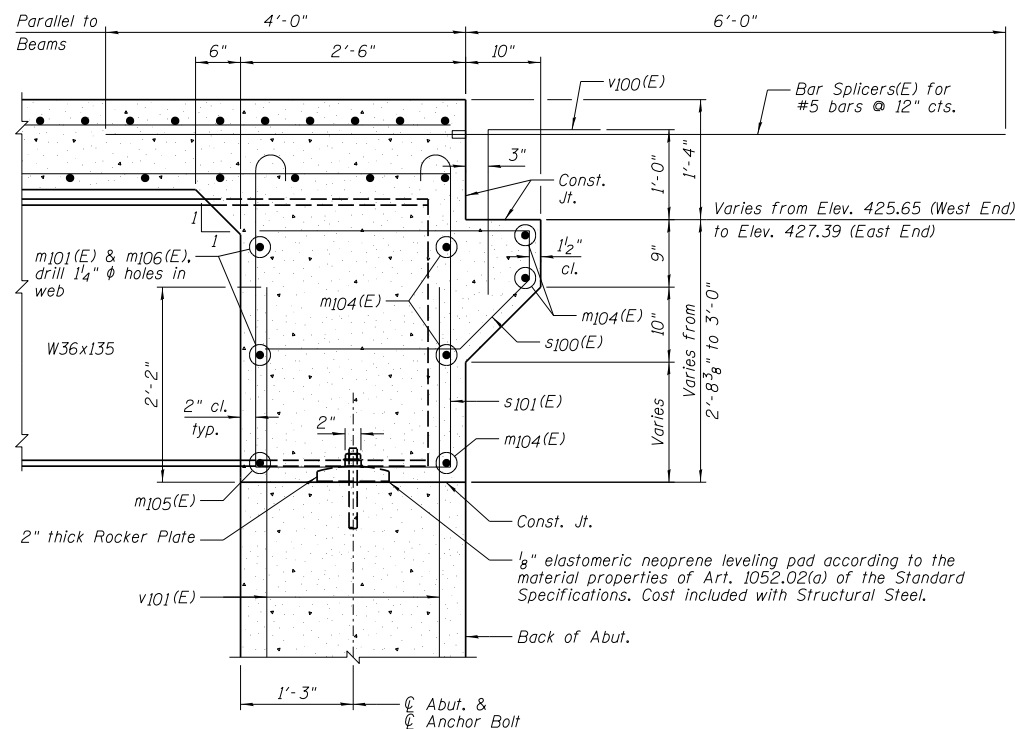
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CHECKED - JML	REVISION
DRAWN - DJM/JWK	REVISION
CHECKED - MSW	REVISION
DATE - 06/26/12	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	48
CONTRACT NO. 76F69			ILLINOIS FED. AID PROJECT	



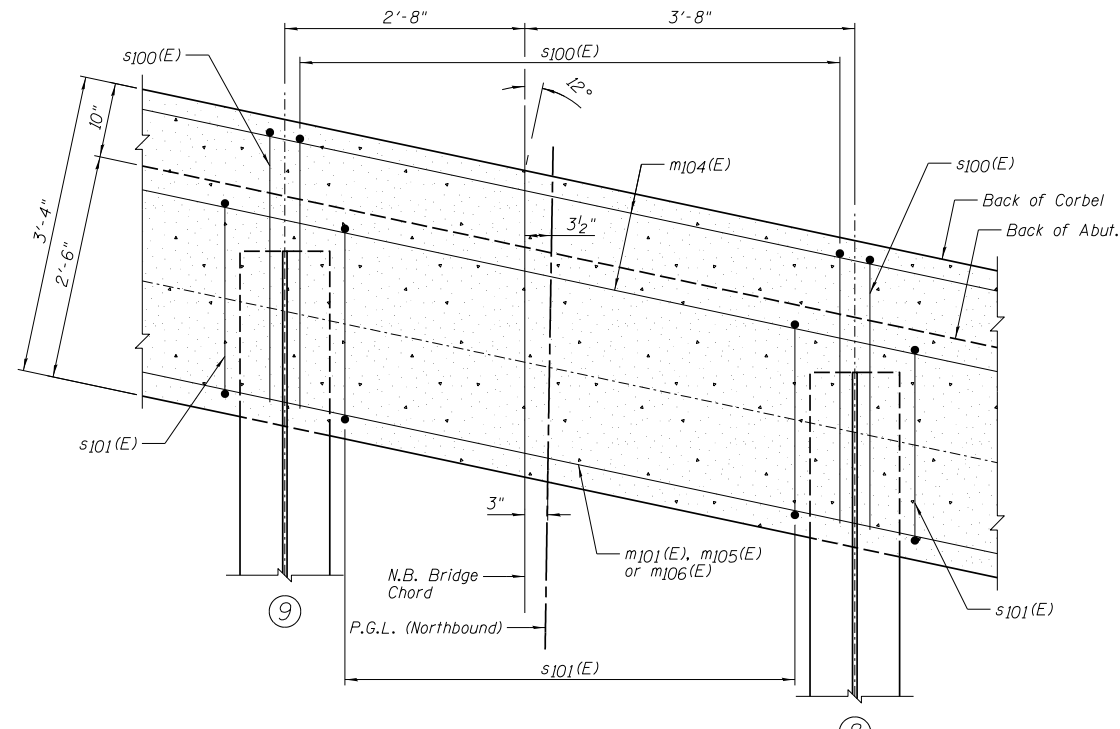
ELEVATION OF DIAPHRAGM AT SOUTH ABUTMENT
(Looking South)

BAR LAP
#6 - 3'-4"



SECTION A-A

Dimensions @ Rt. L's except as noted.



SECTION B-B

NOTES:

- 1.) See Sheet A10 for Superstructure Details and Bill of Material.
- 2.) See Sheet A27 for Fixed Bearing Details.
- 3.) F.F. denotes Front Face, B.F. denotes Back Face and E.E. denotes Each End.
- 4.) See Sheet A38 for Bar Splicer Details.
- 5.) Bars indicated thus 2x5-#6 indicates 2 lines of bars with 5 lengths per line.
- 6.) The s100(E) and s101(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.



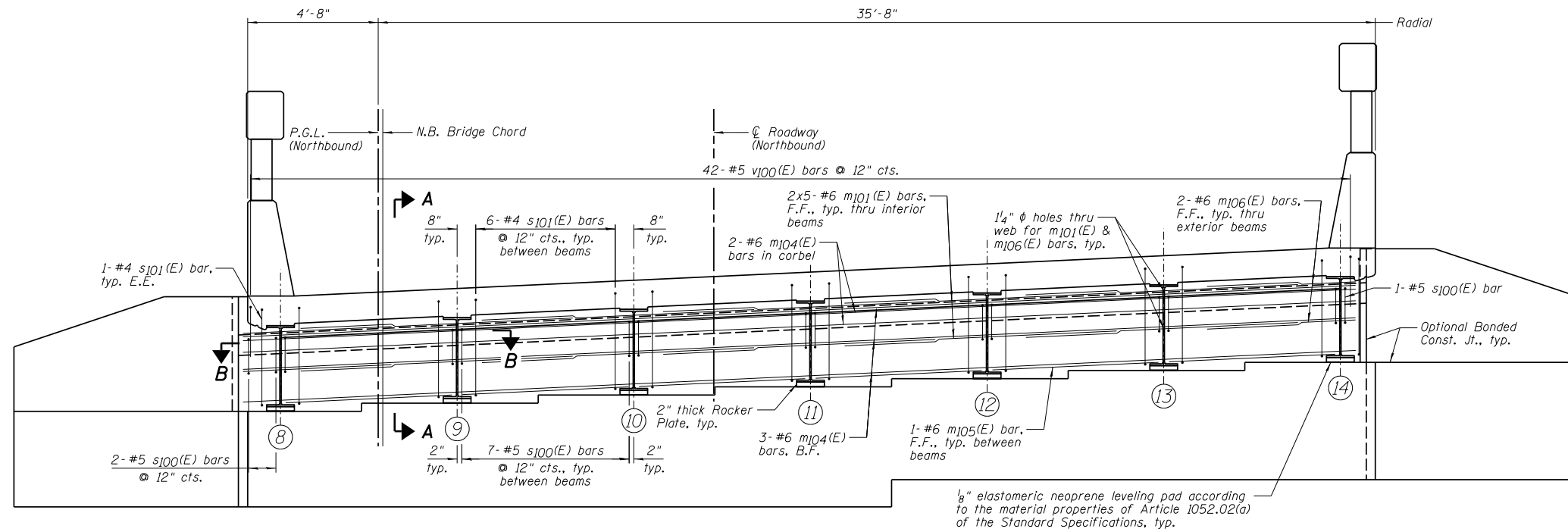
DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED
DATE - 06/26/12	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH DIAPHRAGM DETAILS, NORTHBOUND ROADWAY
STRUCTURE NO. 082-0385 NB & 082-0386 SB

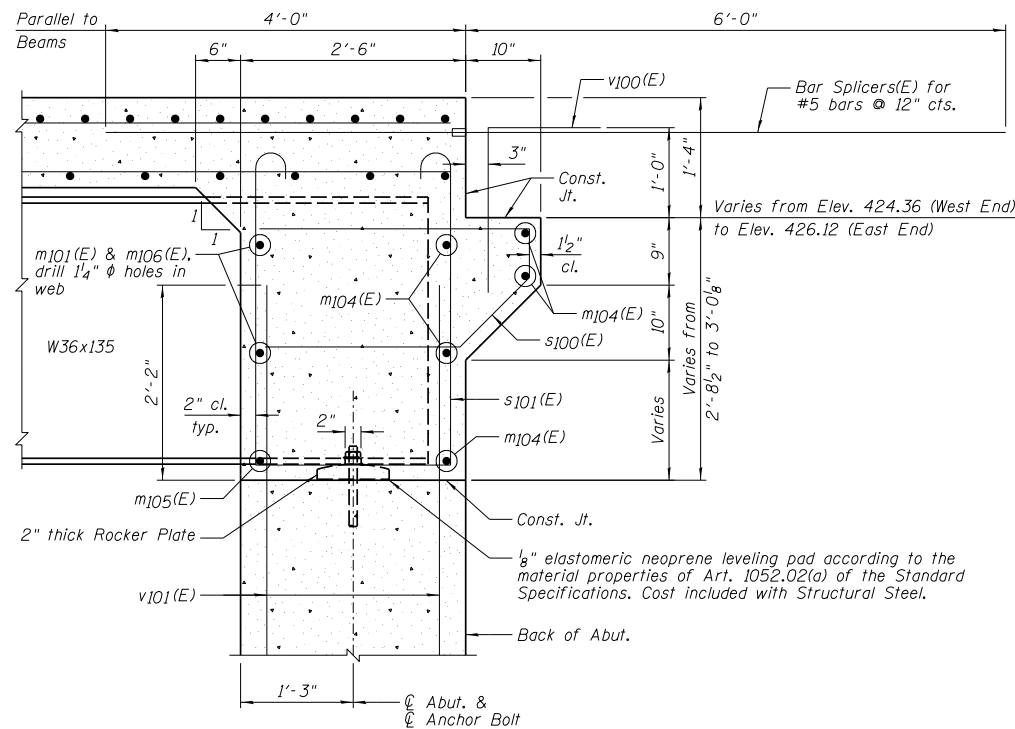
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	49
CONTRACT NO. 76F69			ILLINOIS FED. AID PROJECT	

SHEET NO. A18 OF 48 SHEETS



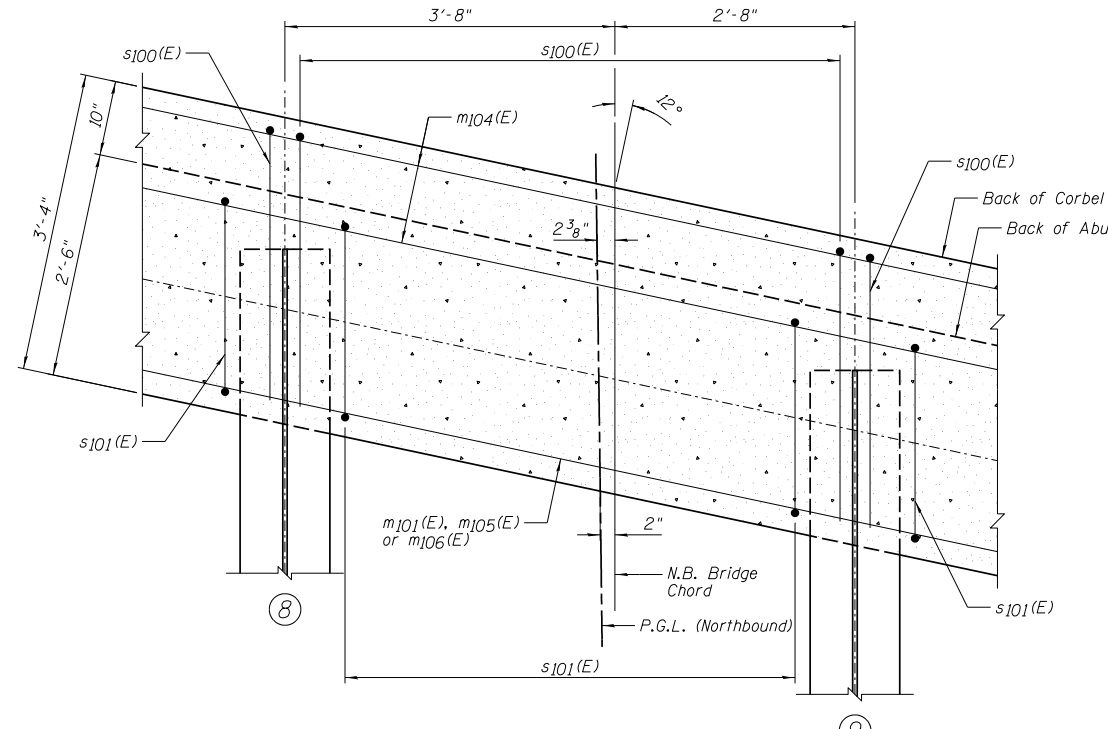
ELEVATION OF DIAPHRAGM AT NORTH ABUTMENT
(Looking North)

BAR LAP
#6 - 3'-4"



SECTION A-A

Dimensions @ Rt. L's except as noted.



SECTION B-B

NOTES:

- 1.) See Sheet A10 for Superstructure Details and Bill of Material.
- 2.) See Sheet A27 for Fixed Bearing Details.
- 3.) F.F. denotes Front Face, B.F. denotes Back Face and E.E. denotes Each End.
- 4.) See Sheet A38 for Bar Splicer Details.
- 5.) Bars indicated thus 2x5-#6 indicates 2 lines of bars with 5 lengths per line.
- 6.) The s100(E) and s101(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.



DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED
DATE - 06/26/12	

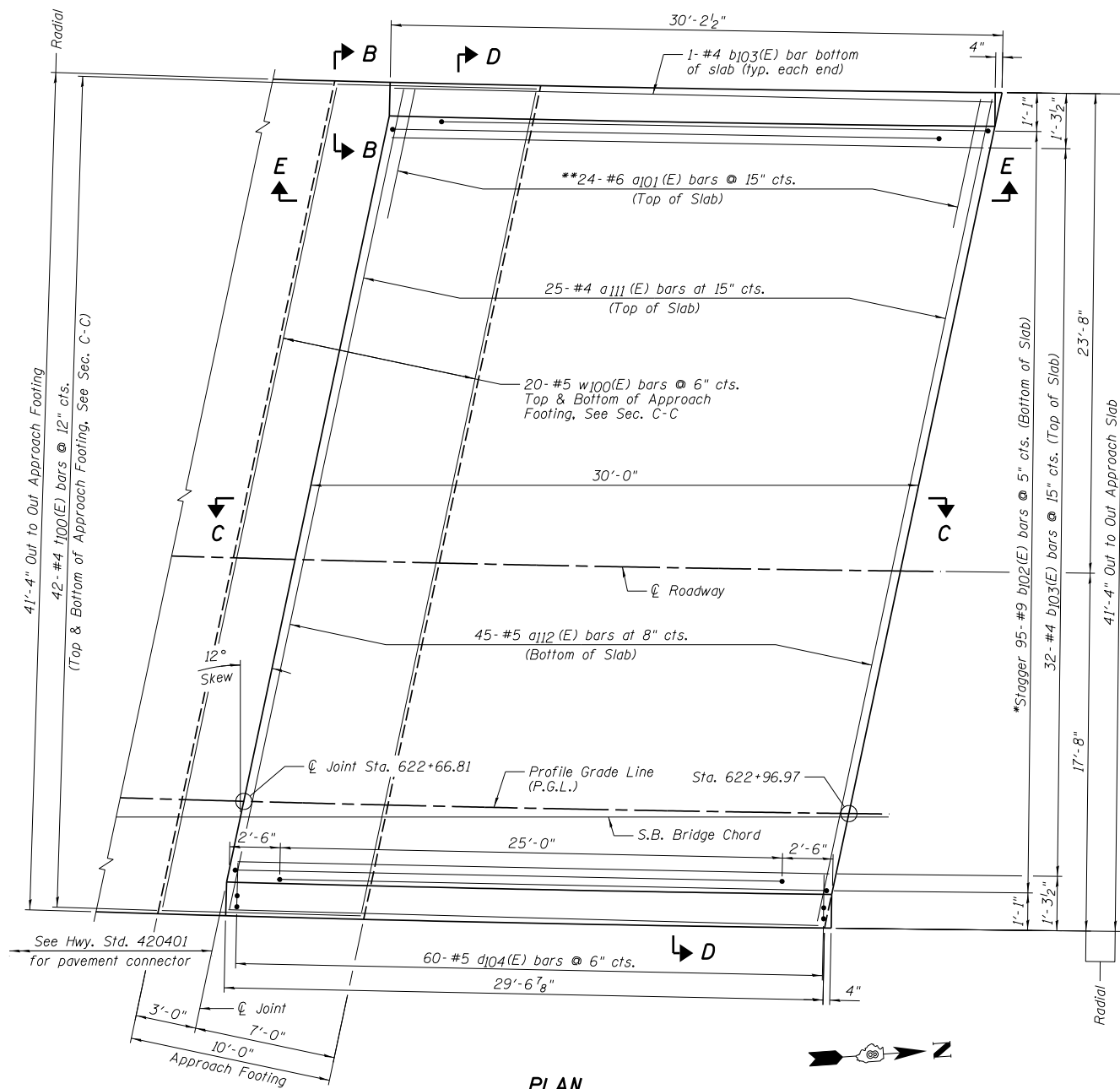
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH DIAPHRAGM DETAILS, NORTHBOUND ROADWAY
STRUCTURE NO. 082-0385 NB & 082-0386 SB

SHEET NO. A19 OF 48 SHEETS

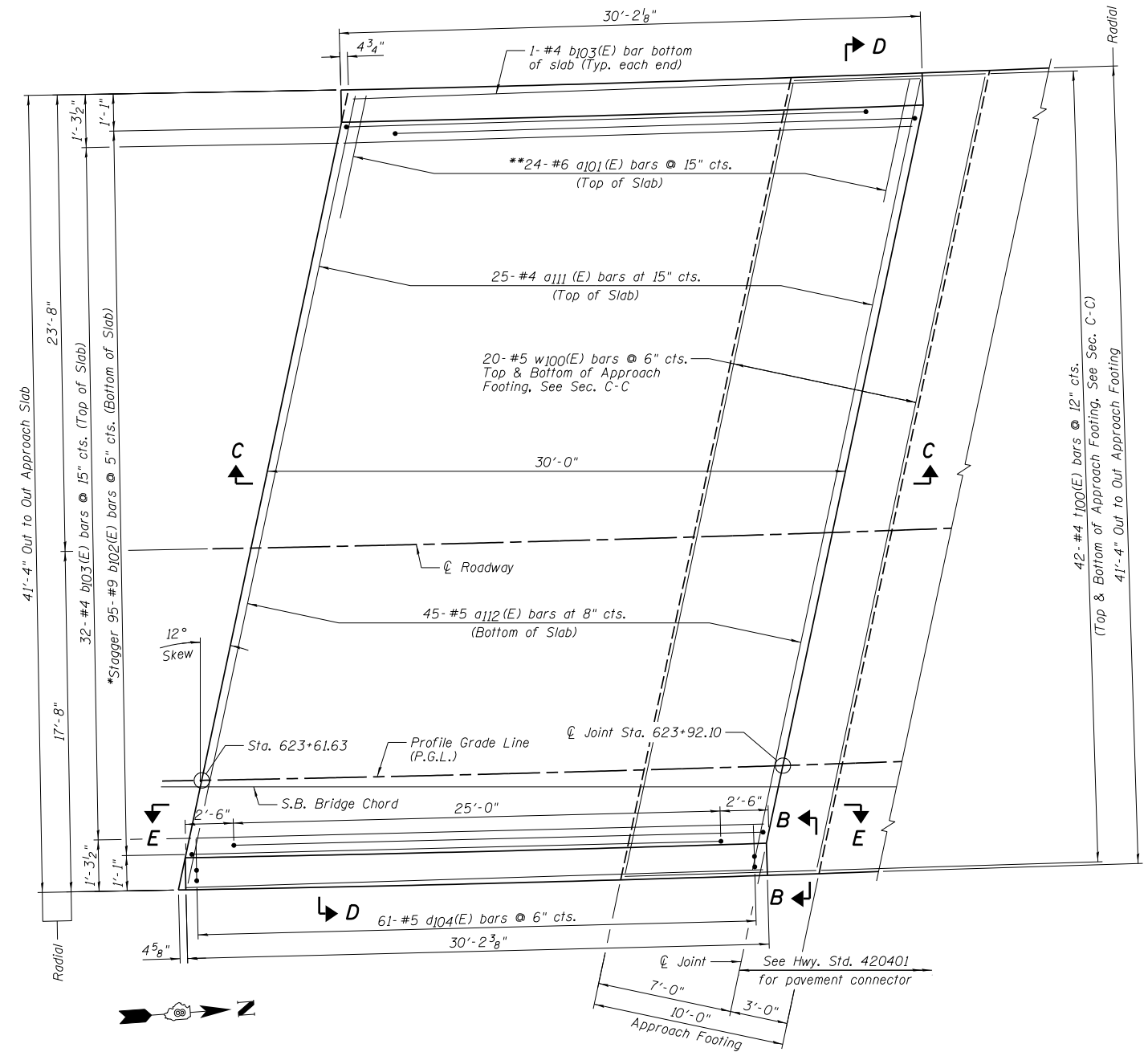
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	50
CONTRACT NO. 76F69				

ILLINOIS FED. AID PROJECT



PLAN

* Tilt #9 b102(E) bars as required to maintain clearance.
 ** Space between a111(E) bars, typ. each parapet.



PLAN

* Tilt #9 b102(E) bars as required to maintain clearance.
 ** Space between a111(E) bars, typ. each parapet.

NOTES:

- 1.) See Sheet A21 for Sections C-C & D-D and Views B-B & E-E.
- 2.) a111(E) and a112(E) bar spacings measured along \varnothing Rdwy.



DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED
DATE - 06/26/12	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS, SOUTHBOUND SB
 STRUCTURE NO. 082-0385 NB & 082-0386 SB**

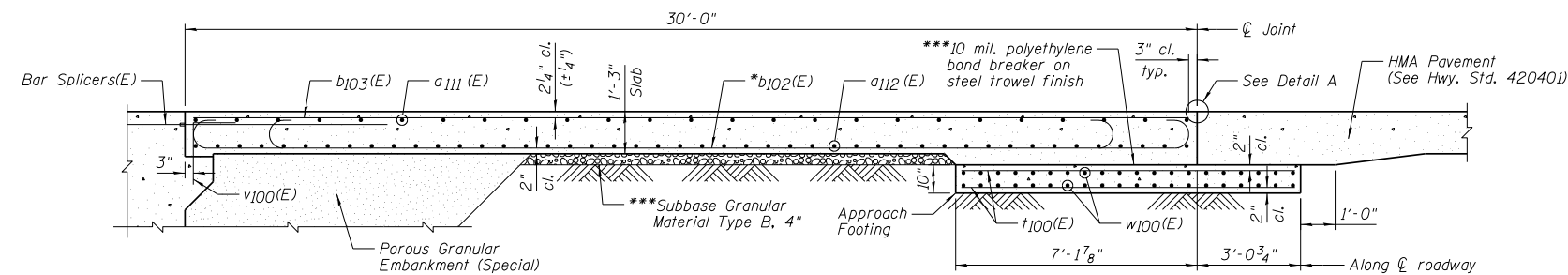
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	51
CONTRACT NO. 76F69				

SHEET NO. A20 OF 48 SHEETS

ILLINOIS FED. AID PROJECT

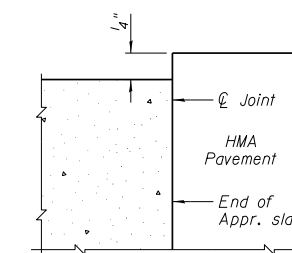
**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a101(E)	96	#6	6'-6"	—
a111(E)	50	#4	41'-8"	—
a112(E)	90	#5	41'-8"	—
b102(E)	190	#9	29'-9"	(—)
b103(E)	68	#4	29'-6"	—
d104(E)	121	#5	11'-2"	⌒
e104(E)	40	#6	29'-6"	—
t100(E)	168	#4	9'-10"	—
w100(E)	80	#5	41'-8"	—
Item		Unit	Quantity	
Concrete Structures		Cu. Yd.	26.1	
Concrete Superstructure		Cu. Yd.	135.8	
Reinforcement Bars, Epoxy Coated		Pound	34,560	



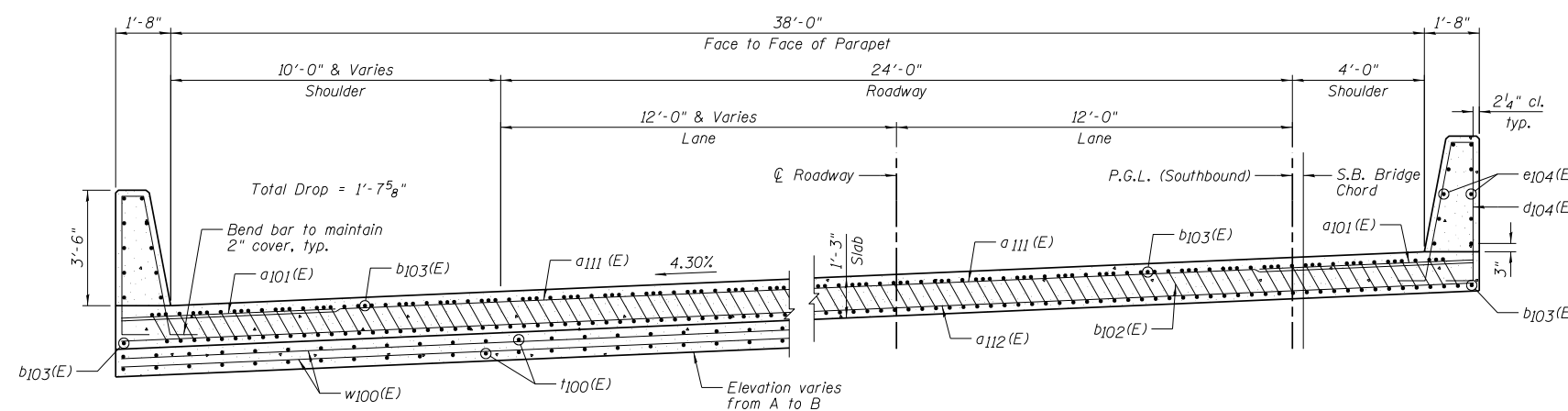
SECTION C-C

* Tilt #9 b102(E) bars as required to maintain clearance.
*** Cost included with Concrete Superstructure.



FLEXIBLE PAVEMENT

DETAIL A



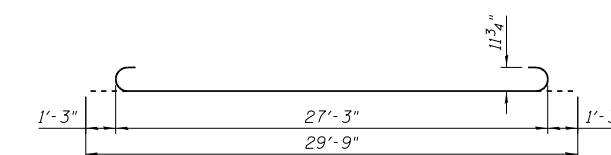
AT APPROACH FOOTING

NEAR ABUTMENT

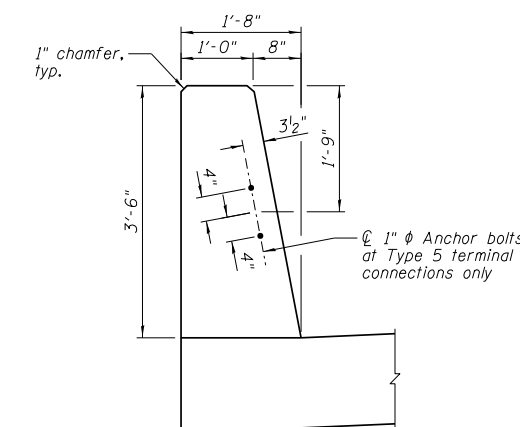
SECTION D-D

(See Plan Views for dimensions not shown)

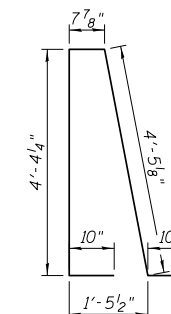
Location	Elevation	
	A (East End)	B (West End)
North Approach	423.14	421.31
South Approach	425.69	423.91



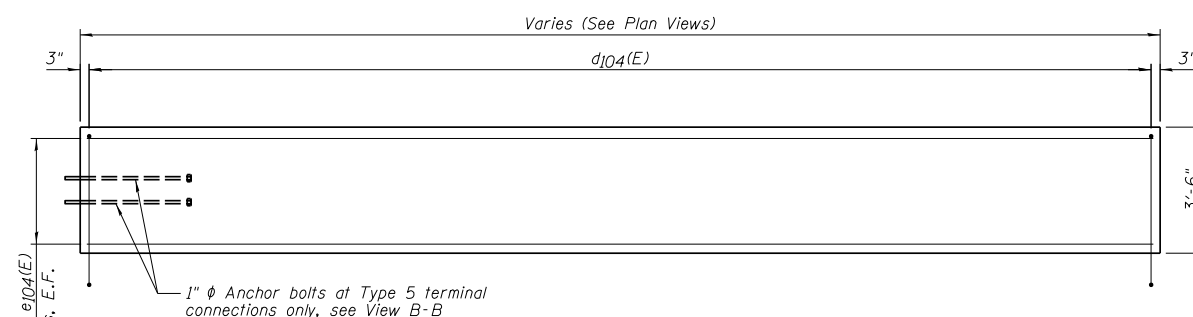
b102 (E) BAR



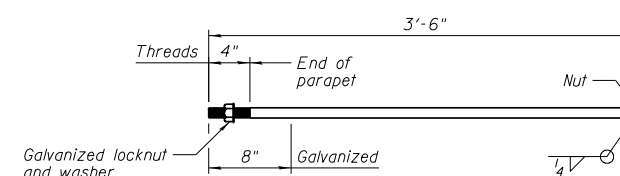
VIEW B-B



d104 (E) BAR



VIEW E-E

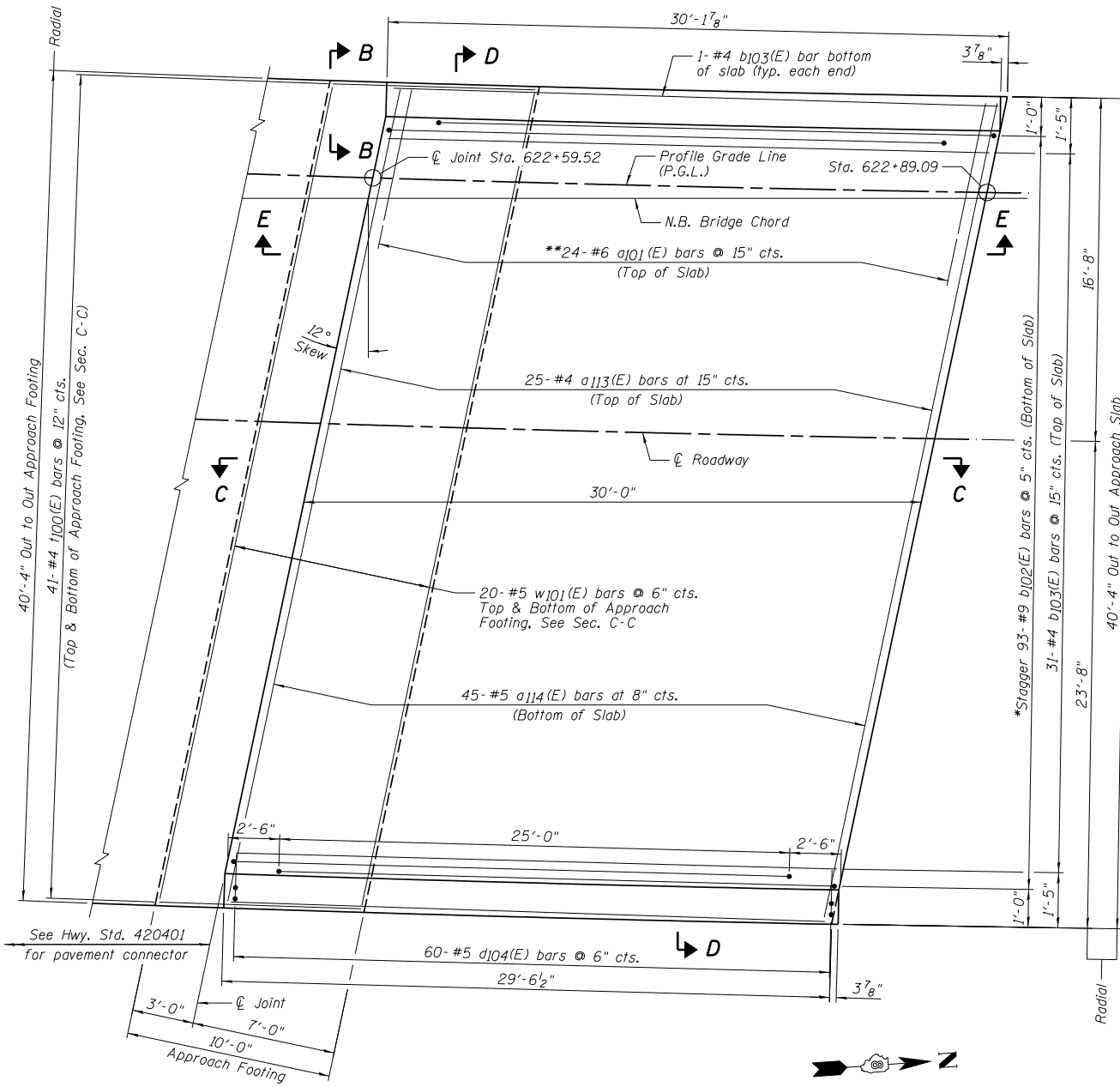


1" ANCHOR BOLT

(Cost included with Concrete Superstructure)

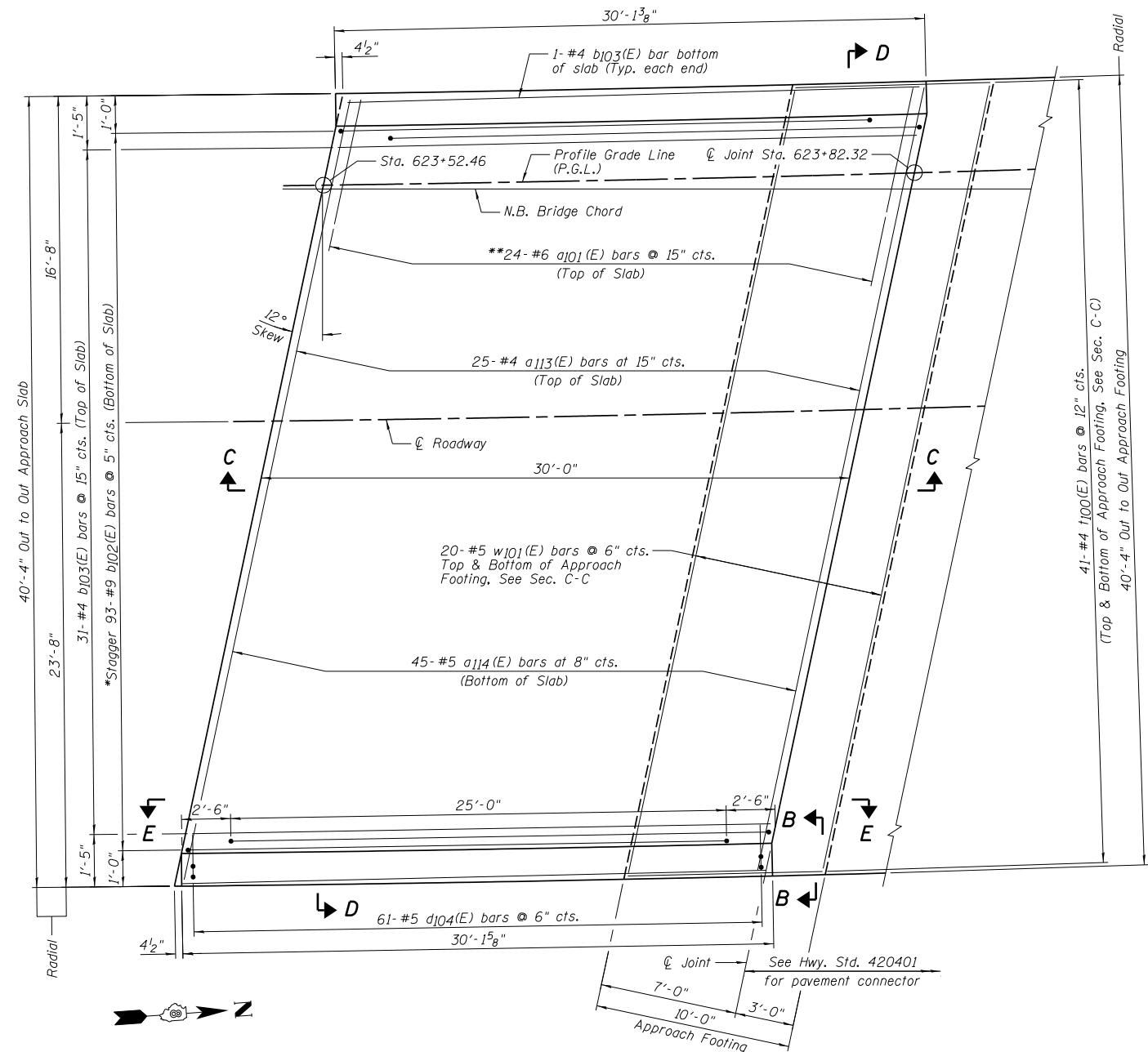
NOTES:

- 1.) Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
- 2.) Approach footing concrete shall be paid for as Concrete Structures.
- 3.) Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
- 4.) For v100(E) bar details, see Sheets A16 & A17.
- 5.) The approach footing maximum applied service bearing pressure (Omax) = 2.0 ksf.
- 6.) For bar splicer details, see Sheet A38.
- 7.) Cost of excavation for approach footing included with Concrete Structures.
- 8.) For Porous Granular Embankment (Special) and drainage treatment details, see Sheet A2.



PLAN

* Tilt #9 b102(E) bars as required to maintain clearance.
 ** Space between a113(E) bars, typ. each parapet.



PLAN

* Tilt #9 b102(E) bars as required to maintain clearance.
 ** Space between a113(E) bars, typ. each parapet.

NOTES:

- 1.) See Sheet A23 for Sections C-C & D-D and Views B-B & E-E.
- 2.) a113(E) and a114(E) bar spacings measured along ϕ Rdwy.



DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED
DATE - 06/26/12	

DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

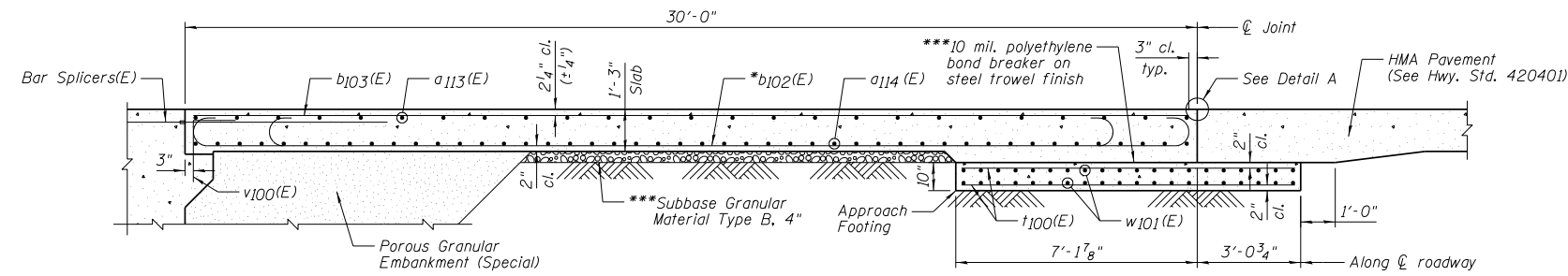
**BRIDGE APPROACH SLAB DETAILS, NORTHBOUND ROADWAY
 STRUCTURE NO. 082-0385 NB & 082-0386 SB**

SHEET NO. A22 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. GLAIR	94	53
CONTRACT NO. 76F69			ILLINOIS FED. AID PROJECT	

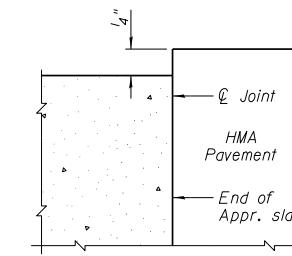
**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a101(E)	96	#6	6'-6"	—
a113(E)	50	#4	40'-8"	—
a114(E)	90	#5	40'-8"	—
b102(E)	186	#9	29'-9"	()
b103(E)	66	#4	29'-6"	—
d104(E)	121	#5	11'-2"	⌒
e104(E)	40	#6	29'-6"	—
t100(E)	164	#4	9'-10"	—
w101(E)	80	#5	40'-8"	—
Item		Unit	Quantity	
Concrete Structures		Cu. Yd.	25.5	
Concrete Superstructure		Cu. Yd.	133.0	
Reinforcement Bars, Epoxy Coated		Pound	33,880	



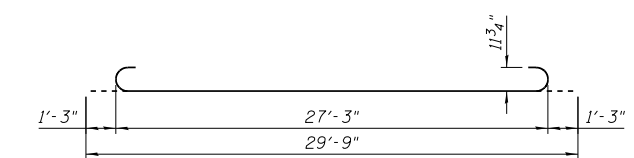
SECTION C-C

* Tilt #9 b102(E) bars as required to maintain clearance.
*** Cost included with Concrete Superstructure.

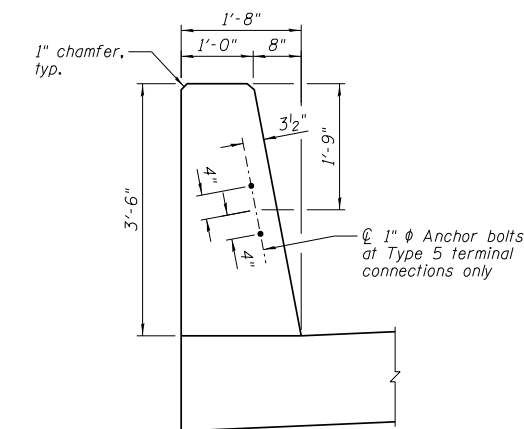


FLEXIBLE PAVEMENT

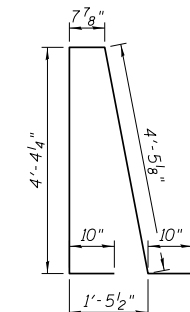
DETAIL A



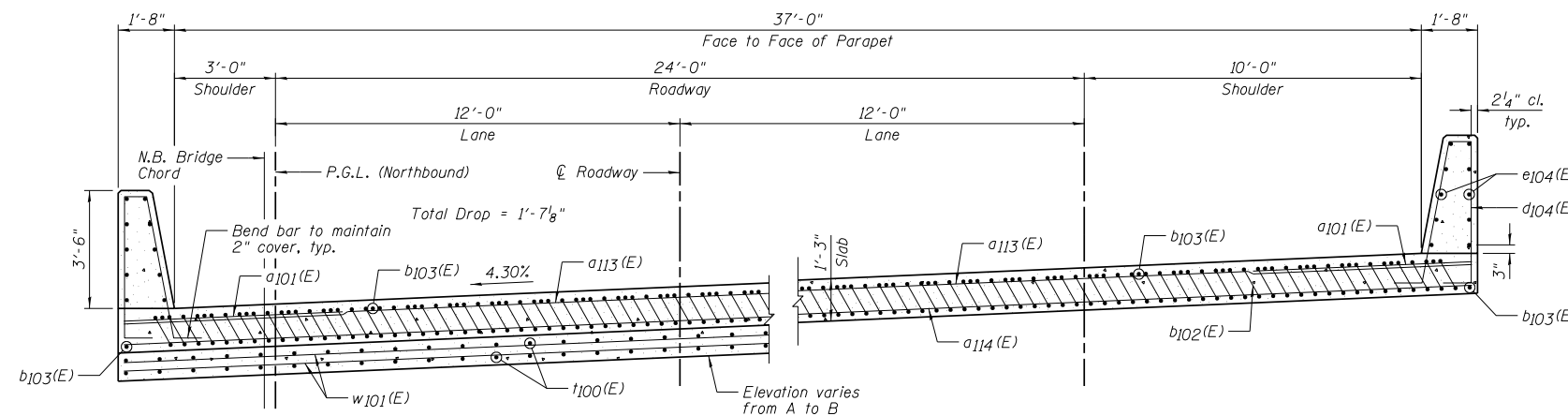
b102 (E) BAR



VIEW B-B



d104 (E) BAR



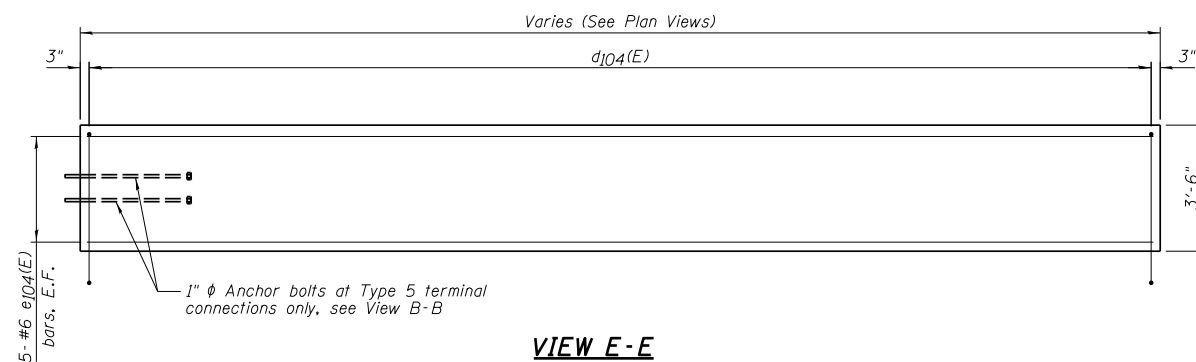
AT APPROACH FOOTING

NEAR ABUTMENT

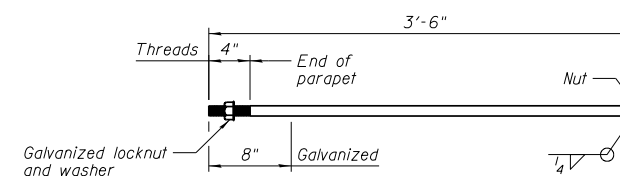
SECTION D-D

(See Plan Views for dimensions not shown)

Location	Elevation	
	A (East End)	B (West End)
North Approach	424.77	423.00
South Approach	427.23	425.51



VIEW E-E

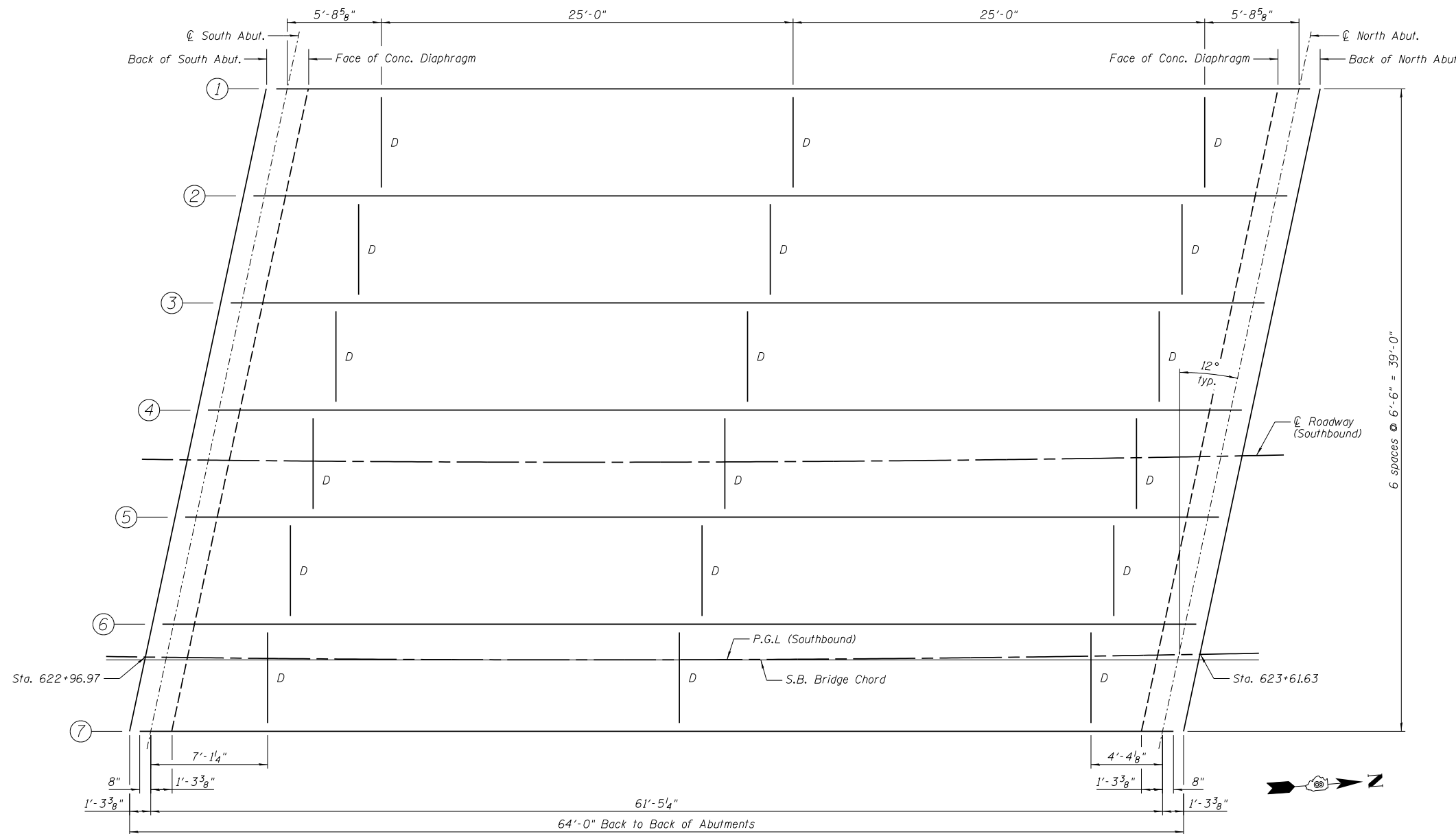


1" ANCHOR BOLT

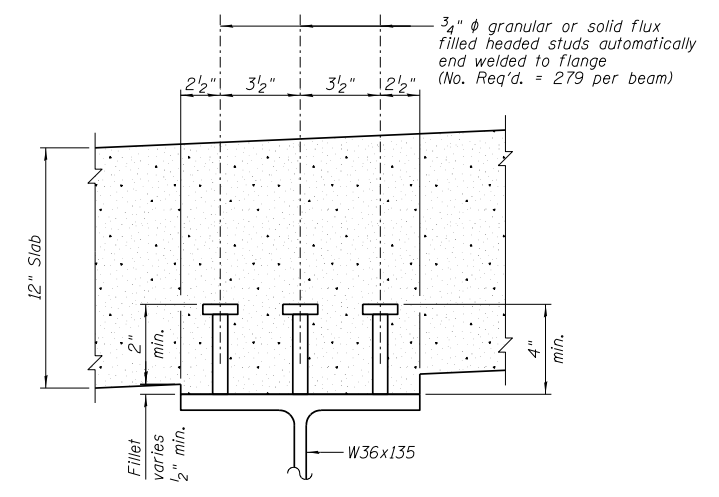
(Cost included with Concrete Superstructure)

NOTES:

- 1.) Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
- 2.) Approach footing concrete shall be paid for as Concrete Structures.
- 3.) Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
- 4.) For v100(E) bar details, see Sheets A18 & A19.
- 5.) The approach footing maximum applied service bearing pressure (0max) = 2.0 ksf.
- 6.) For bar splicer details, see Sheet A38.
- 7.) Cost of excavation for approach footing included with Concrete Structures.
- 8.) For Porous Granular Embankment (Special) and drainage treatment details, see Sheet A2.



PLAN

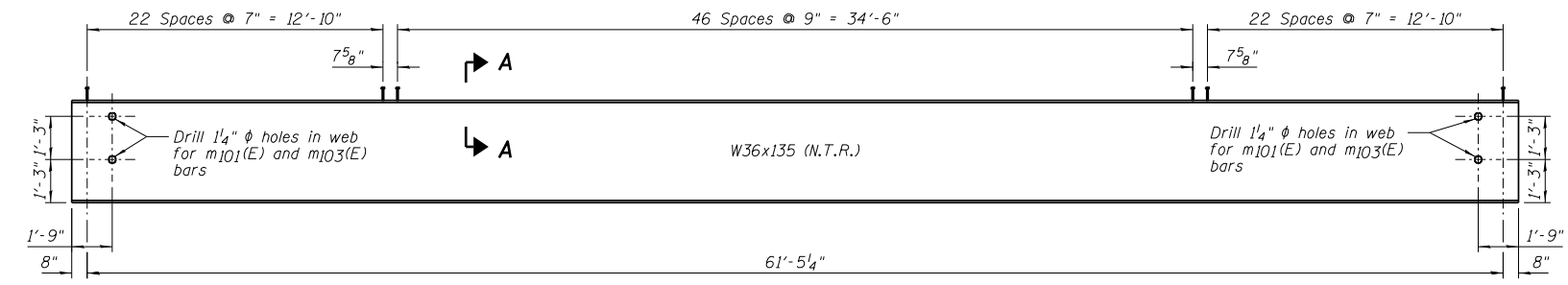


SECTION A-A

FABRICATED TOP OF BEAM ELEVATION TABLE

Location	Beam No. 1	Beam No. 2	Beam No. 3	Beam No. 4	Beam No. 5	Beam No. 6	Beam No. 7
℄ Brg. S. Abut.	424.24	424.55	424.86	425.17	425.47	425.78	426.09
℄ Brg. N. Abut.	422.98	423.29	423.60	423.91	424.21	424.52	424.83

For fabrication use only.



ELEVATION

NOTES:

- 1.) See Sheet A26 for Diaphragm Details.
- 2.) Load carrying components designated N.T.R. shall conform to the Impact Testing Requirements, Zone 2.
- 3.) All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.



DESIGNED - TCR/JCZ	REVISÉ
CHECKED - JML	REVISÉ
DRAWN - DJM/JWK	REVISÉ
CHECKED - MSW	REVISÉ
DATE - 06/26/12	

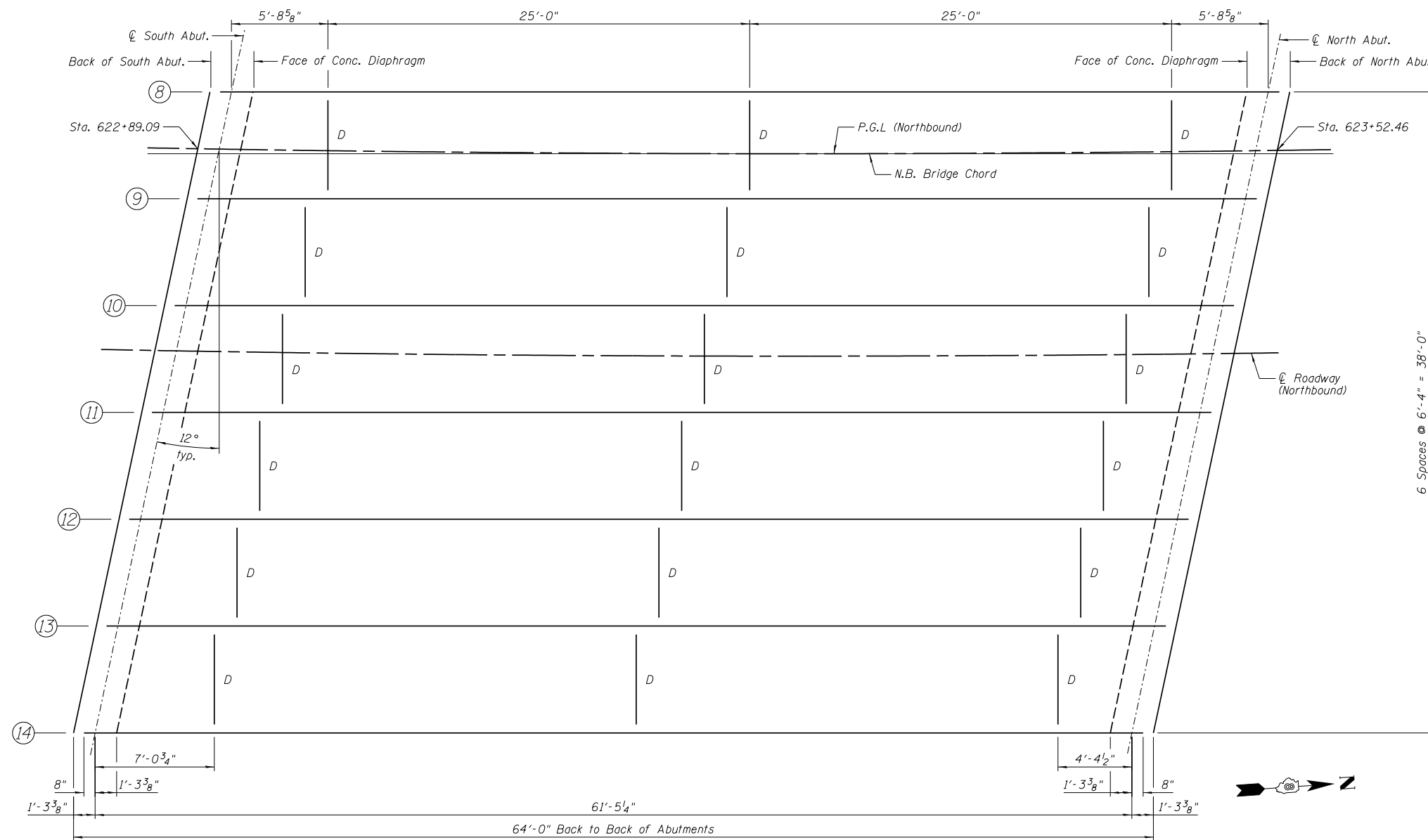
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL, SOUTHBOUND ROADWAY
STRUCTURE NO. 082-0385 NB & 082-0386 SB**

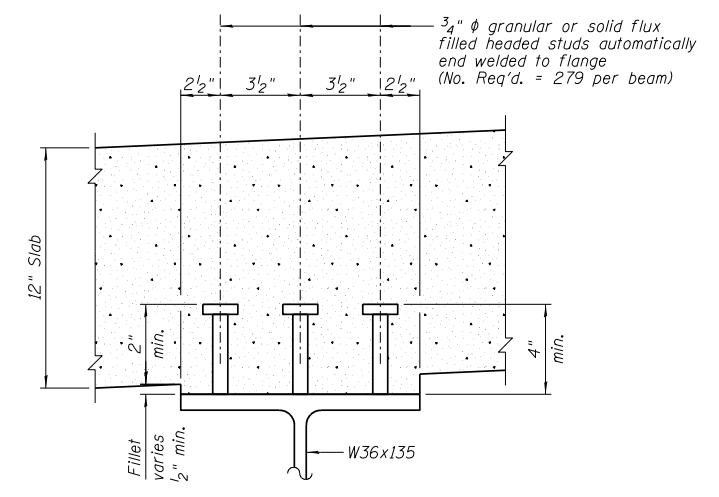
SHEET NO. A24 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	55
CONTRACT NO. 76F69				

ILLINOIS FED. AID PROJECT



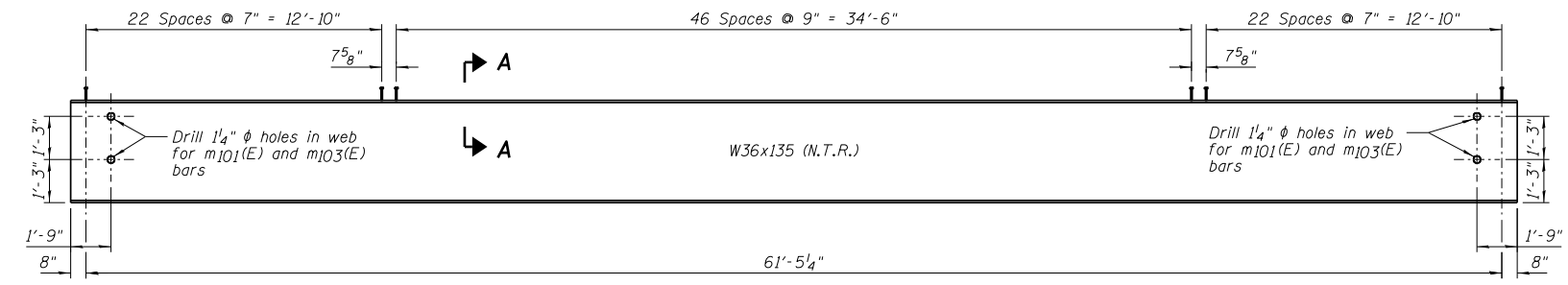
PLAN



SECTION A-A

FABRICATED TOP OF BEAM ELEVATION TABLE							
Location	Beam No. 8	Beam No. 9	Beam No. 10	Beam No. 11	Beam No. 12	Beam No. 13	Beam No. 14
☐ Brg. S. Abut.	425.88	426.17	426.47	426.77	427.07	427.37	427.66
☐ Brg. N. Abut.	424.63	424.93	425.23	425.53	425.83	426.13	426.43

For fabrication use only.



ELEVATION

NOTES:

- See Sheet A26 for Diaphragm Details.
- Load carrying components designated N.T.R. shall conform to the Impact Testing Requirements, Zone 2.
- All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.



DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED
DATE - 06/26/12	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL STEEL, NORTHBOUND ROADWAY
STRUCTURE NO. 082-0385 NB & 082-0386 SB**

SHEET NO. A25 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	56
CONTRACT NO. 76F69			ILLINOIS FED. AID PROJECT	

SN 082-0385

INTERIOR BEAM MOMENT TABLE		0.5 Sp. 1
I_s	(in ⁴)	7800
$I_c(n)$	(in ⁴)	25860
$I_c(3n)$	(in ⁴)	18982
$I_c(cr)$	(in ⁴)	-
S_s	(in ³)	439
$S_c(n)$	(in ³)	734
$S_c(3n)$	(in ³)	656
$S_c(cr)$	(in ³)	-
DC1	(k/')	1.111
MDC1	('k)	518
DC2	(k/')	0.372
MDC2	('k)	182
DW	(k/')	0:0
MDW	('k)	0:0
$M\psi + IM$	('k)	858
M_u (Strength I)	('k)	2377
$\phi_r M_n$	('k)	4003
f_s DC1	(ksi)	14.2
f_s DC2	(ksi)	3.3
f_s DW	(ksi)	0:0
f_s ($\psi + IM$)	(ksi)	14.0
f_s (Service II)	(ksi)	35.7
$0.95R_n F_y f$	(ksi)	47.5
f_s (Total)(Strength I)	(ksi)	46.4
$\phi_r F_n$	(ksi)	-
V_f	(k)	48.8

SN 082-0385

INTERIOR BEAM REACTION TABLE		Abut.
R_{DC1}	(k)	35.2
R_{DC2}	(k)	11.4
R_{DW}	(k)	0:0
$R\psi + IM$	(k)	86.1
R_{Total}	(k)	132.7

SN 082-0386

INTERIOR BEAM MOMENT TABLE		0.5 Sp. 1
I_s	(in ⁴)	7800
$I_c(n)$	(in ⁴)	26014
$I_c(3n)$	(in ⁴)	19144
$I_c(cr)$	(in ⁴)	-
S_s	(in ³)	439
$S_c(n)$	(in ³)	735
$S_c(3n)$	(in ³)	658
$S_c(cr)$	(in ³)	-
DC1	(k/')	1.136
MDC1	('k)	535
DC2	(k/')	0.372
MDC2	('k)	181
DW	(k/')	0:0
MDW	('k)	0:0
$M\psi + IM$	('k)	865
M_u (Strength I)	('k)	2409
$\phi_r M_n$	('k)	4034
f_s DC1	(ksi)	14.6
f_s DC2	(ksi)	3.3
f_s DW	(ksi)	0:0
f_s ($\psi + IM$)	(ksi)	14.1
f_s (Service II)	(ksi)	36.3
$0.95R_n F_y f$	(ksi)	47.5
f_s (Total)(Strength I)	(ksi)	47.1
$\phi_r F_n$	(ksi)	-
V_f	(k)	47.1

SN 082-0386

INTERIOR BEAM REACTION TABLE		Abut.
R_{DC1}	(k)	36.1
R_{DC2}	(k)	11.4
R_{DW}	(k)	0:0
$R\psi + IM$	(k)	83.3
R_{Total}	(k)	130.8

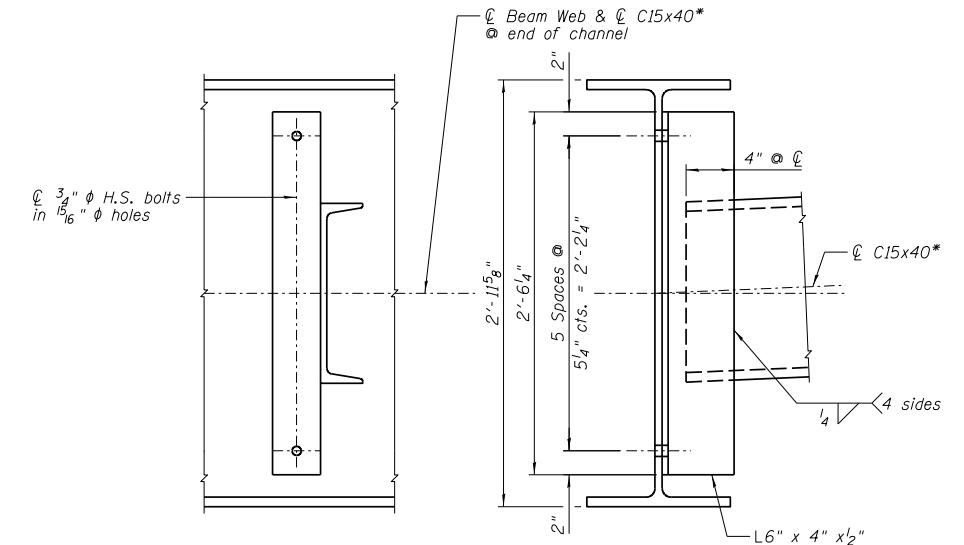
I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).

$I_c(n), S_c(n)$: 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) in uncracked sections, due to short-term composite live loads (in⁴ and in³).

$I_c(3n), S_c(3n)$: 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) in uncracked sections, due to long-term composite (superimposed) dead loads (in⁴ and in³).

$I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite dead loads (in⁴ and in³).

DC1: Un-factored non-composite dead load (kips/ft.).
MDC1: 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.).
MDC2: 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.).
MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 $M\psi + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
 M_u (Strength I): Factored design moment (kip-ft.).
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M\psi + IM$
 $\phi_r M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.) or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).
 f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
 M_{DC1} / S_{nc}
 f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 $M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.
 f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
 $M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.
 f_s ($\psi + IM$): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).
 $M\psi + IM / S_c(n)$ or $M\psi + IM / S_c(cr)$ as applicable.
 f_s (Service II): Sum of stresses as computed below (ksi).
 $f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3 f_s(\psi + IM)$
 $0.95R_n F_y f$: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
 f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
 $1.25 (f_{sDC1} + f_{sDC2}) + 1.5 f_{sDW} + 1.75 f_s(\psi + IM)$
 $\phi_r F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7.2 (ksi).
 V_f : Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

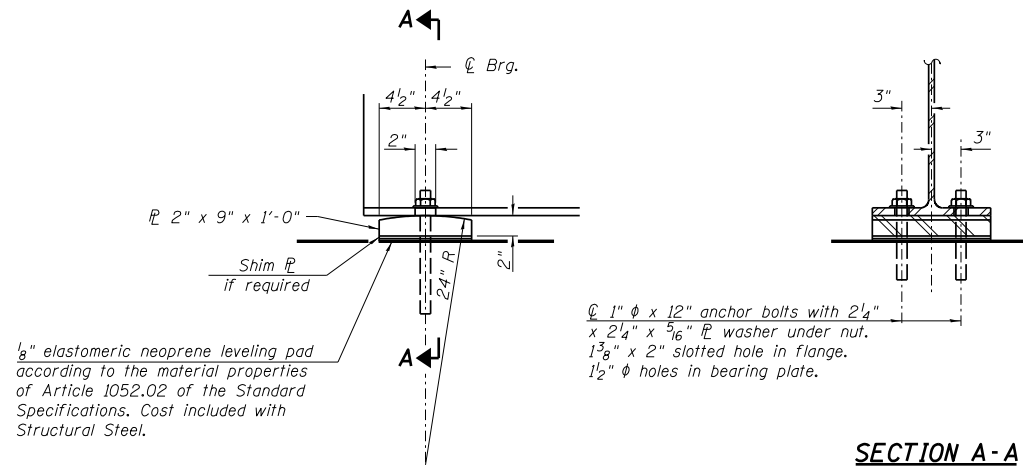


DIAPHRAGM D

(36 - Required for two bridges)

Note:
Two hardened washers required for each set of oversized holes.

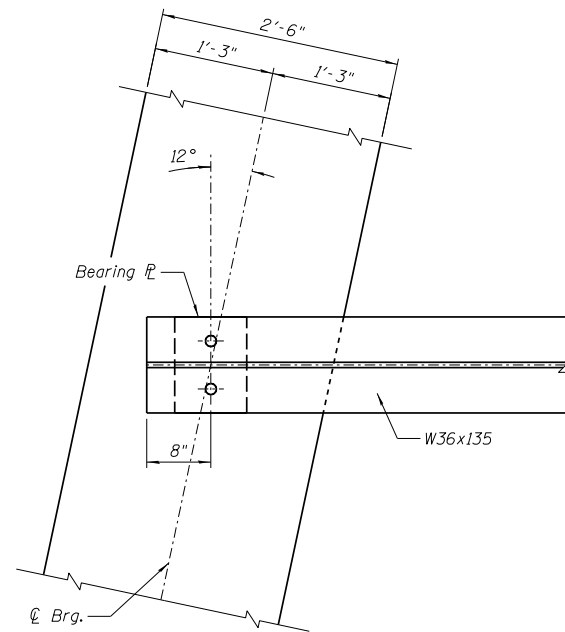
*Alternate channels, C15x50, are permitted to facilitate material acquisition. Calculated weight of structural steel is based on C15x40 section. The C15x50, if utilized, shall be provided at no extra cost to the department.



ELEVATION AT ABUTMENTS

FIXED BEARING

(At South Abutment, Southbound - 7 Required)
 (At North Abutment, Southbound - 7 Required)
 (At South Abutment, Northbound - 7 Required)
 (At North Abutment, Northbound - 7 Required)



BEARING PLAN AT ABUTMENTS

Notes:
 The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.
 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.

BILL OF MATERIAL

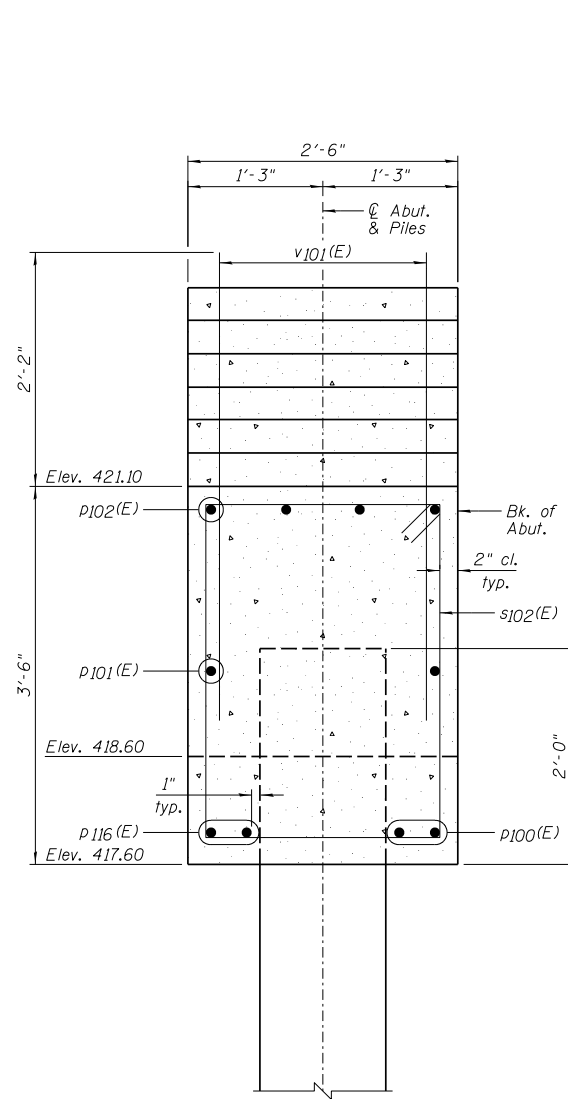
Item	Unit	Total
Anchor Bolts, 1"	Each	56

NOTES:

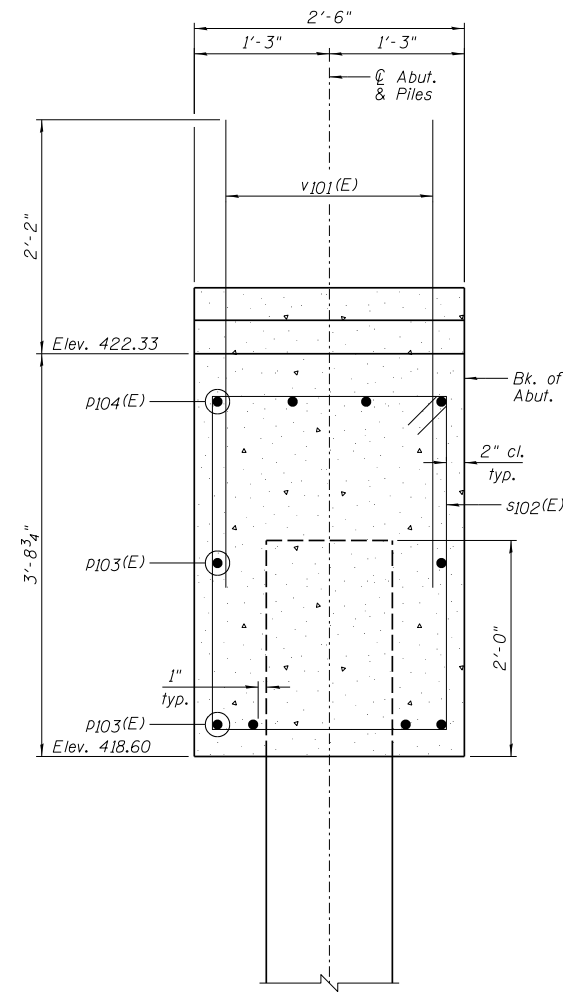
- The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50W.
- Two $\frac{1}{8}$ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED
DATE - 06/26/12	

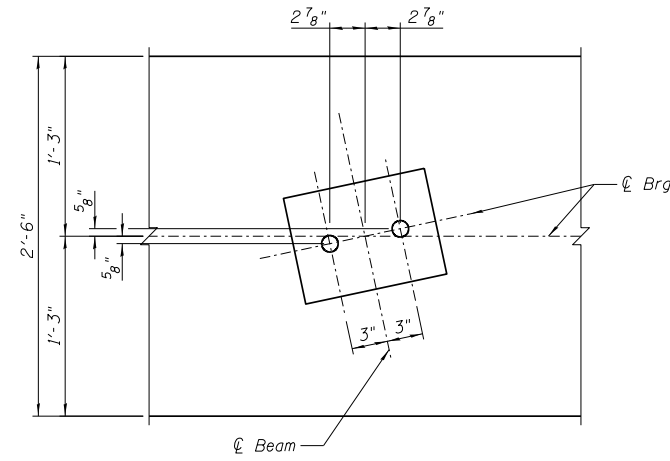
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	56
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F69	



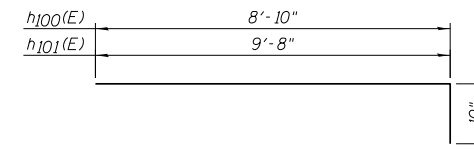
SECTION A-A



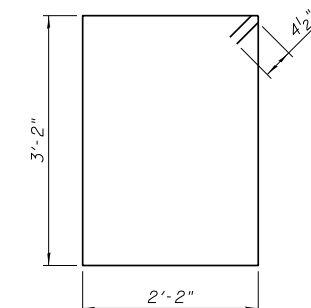
SECTION B-B



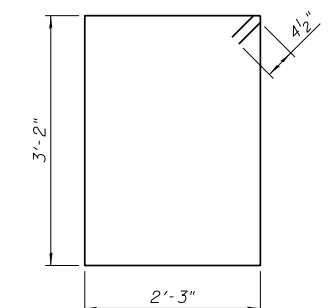
TYPICAL ANCHOR BOLT PLACEMENT DETAIL



h₁₀₀ (E) & h₁₀₁ (E) BAR



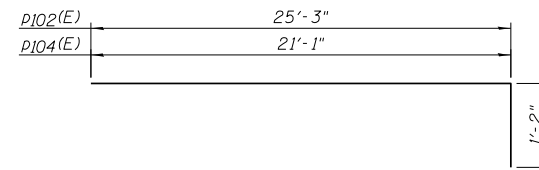
s₁₀₂ (E) BAR



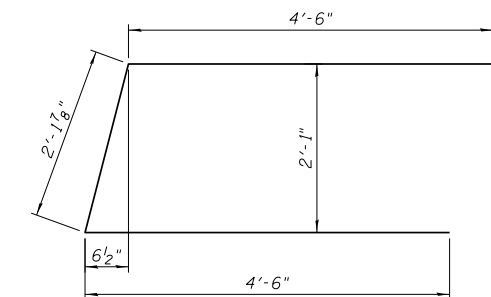
s₁₀₃ (E) BAR

BAR CUTTING DIAGRAM

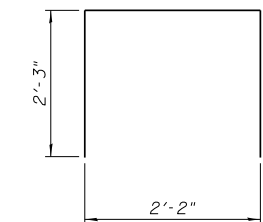
BAR	A	B	C	D	E	F	L
v104(E)	6'-3"	7'-11"	6'-3"	7'-11"	1	6	14'-2"
v105(E)	5'-6"	7'-2"	5'-6"	7'-2"	1	6	12'-8"



p₁₀₂ (E) & p₁₀₄ (E) BAR



u₁₀₀ (E) BAR



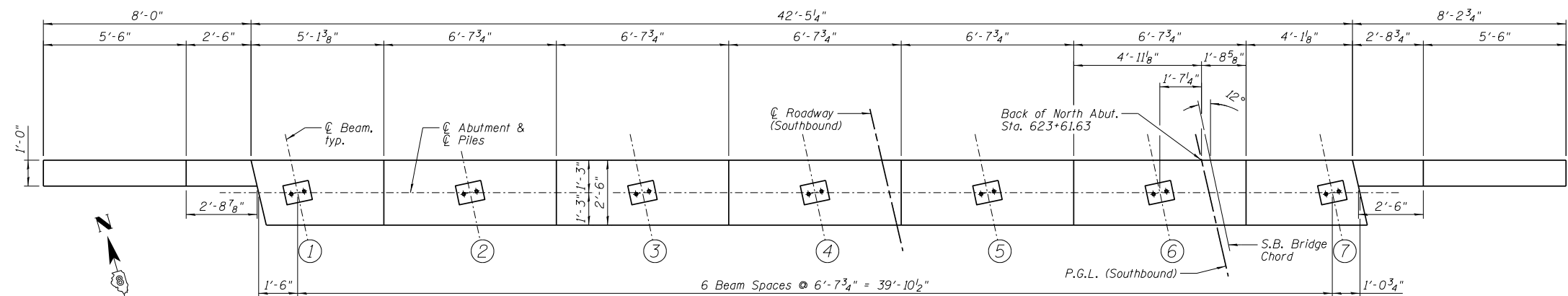
u₁₀₁ (E) BAR

NOTE:

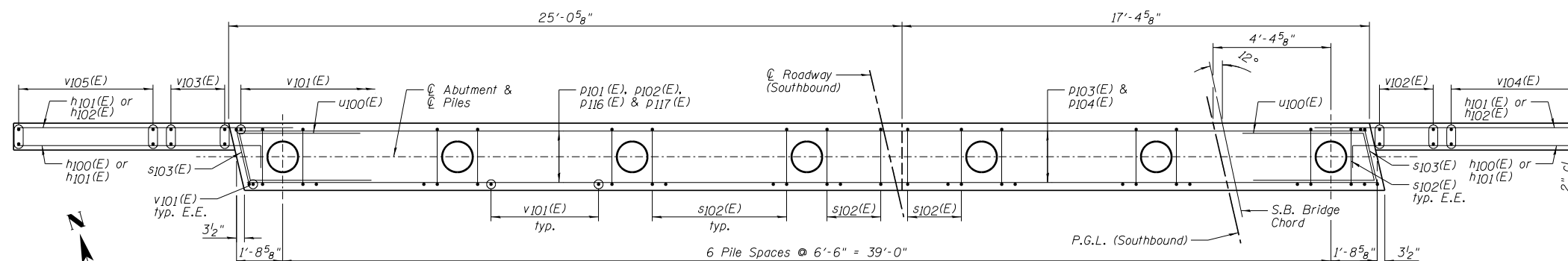
See Sheet A28 for locations of Section A-A and Section B-B.

**NORTH ABUTMENT
BILL OF MATERIAL**

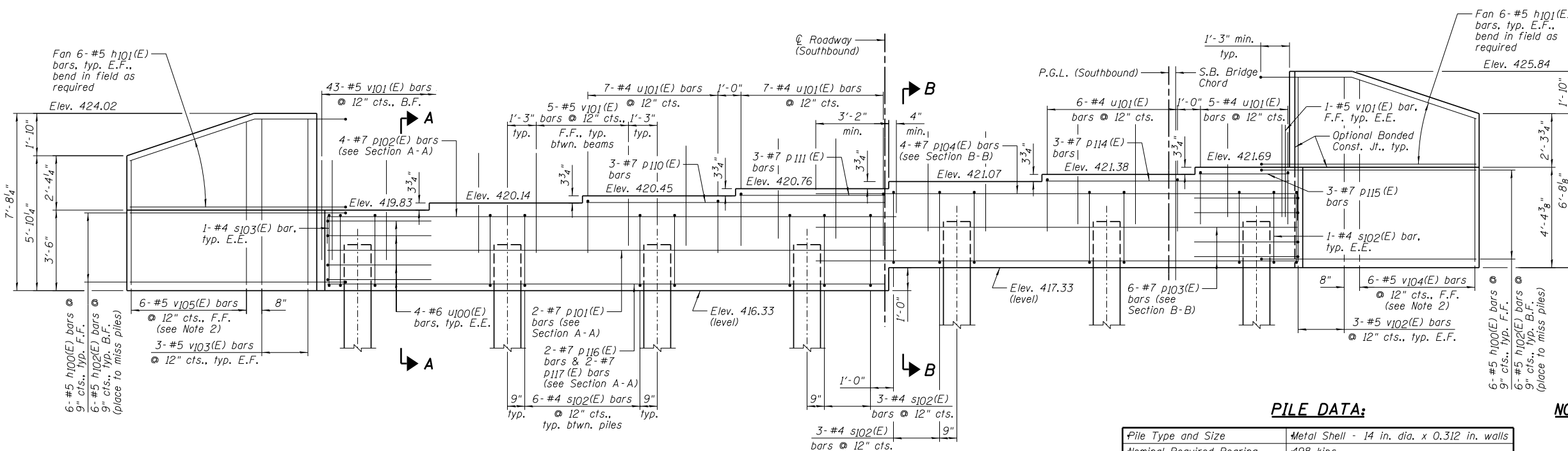
Bar	No.	Size	Length	Shape
h100(E)	1	#5	10'-2"	—
h101(E)	24	#5	10'-6"	—
h102(E)	1	#5	10'-4"	—
p101(E)	2	#7	25'-3"	—
p102(E)	4	#7	26'-5"	—
p103(E)	6	#7	21'-1"	—
p104(E)	4	#7	22'-3"	—
p110(E)	3	#7	12'-8"	—
p111(E)	3	#7	6'-2"	—
p114(E)	3	#7	10'-1"	—
p115(E)	3	#7	3'-7"	—
p116(E)	2	#7	24'-0"	—
p117(E)	2	#7	24'-3"	—
s102(E)	38	#4	11'-5"	□
s103(E)	2	#4	11'-7"	□
u100(E)	25	#6	11'-2"	—
u101(E)	8	#4	6'-8"	—
v101(E)	75	#5	4'-4"	—
v102(E)	6	#5	8'-1"	—
v103(E)	6	#5	7'-4"	—
v104(E)	6	#5	14'-2"	—
v105(E)	6	#5	12'-8"	—
Item	Unit	Quantity		
Structure Excavation	Cu. Yd.	104		
Concrete Structures	Cu. Yd.	20.2		
Reinforcement Bars, Epoxy Coated	Pound	2,800		
Furnishing Metal Shell Piles 14" x 0.312"	Foot	516		
Driving Piles	Foot	516		
Test Pile Metal Shells	Each	1		
Geocomposite Wall Drain	Sq. Yd.	44		
Pipe Underdrains for Structures 4"	Foot	79		
Porous Granular Embankment, Special	Cu. Yd.	84		



TOP VIEW ABUTMENT (SHOWING BEARING SEAT)



PLAN - PILE CAP



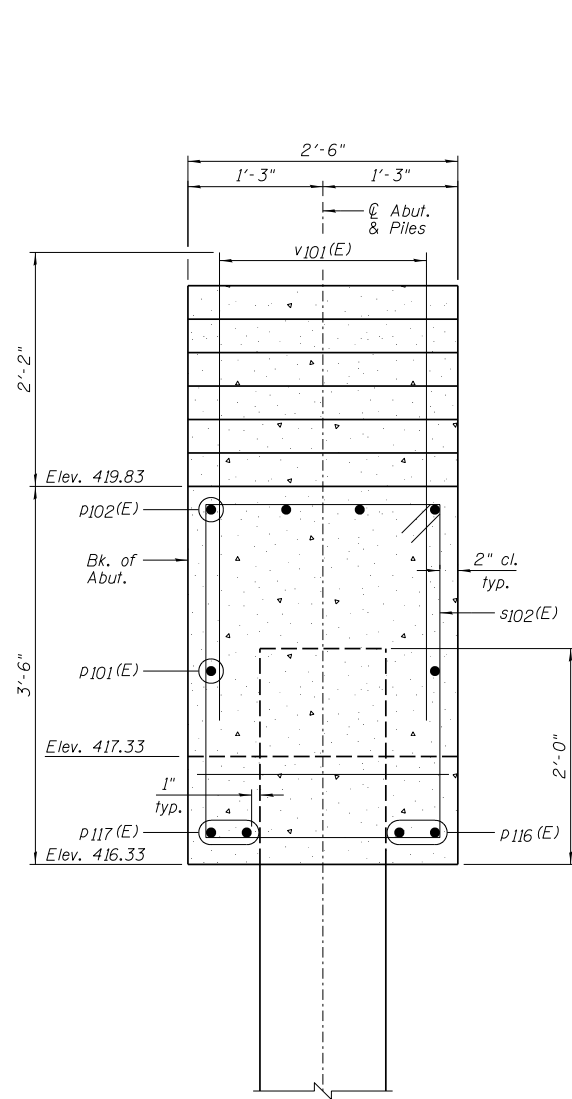
**ELEVATION
(Looking North)**

PILE DATA:

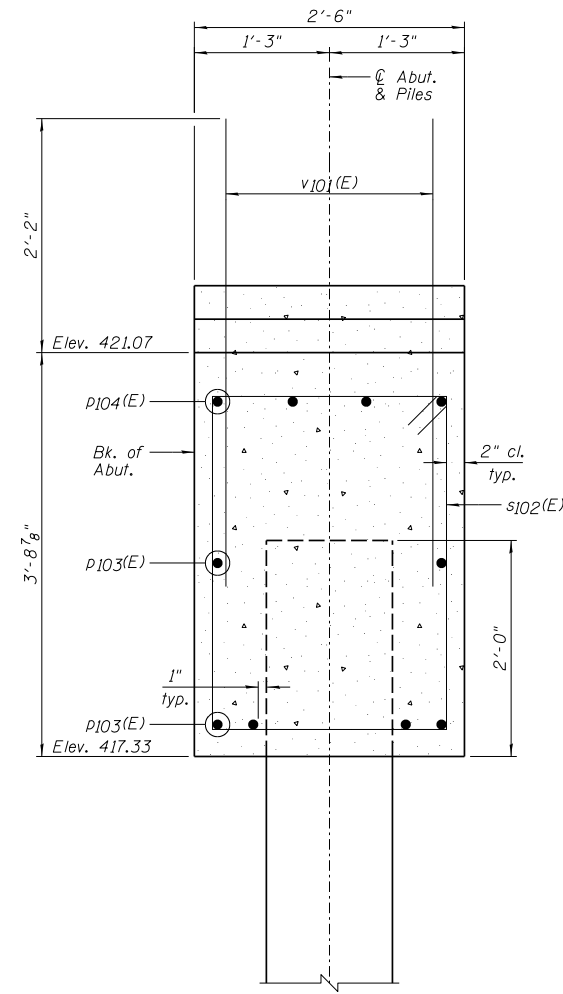
File Type and Size	Metal Shell - 14 in. dia. x 0.312 in. walls
Nominal Required Bearing	498 kips
Factored Resistance Available	274 kips
Estimated Pile Length	86 Feet
Number of Production Piles	6
Number of Test Piles	1

NOTES:

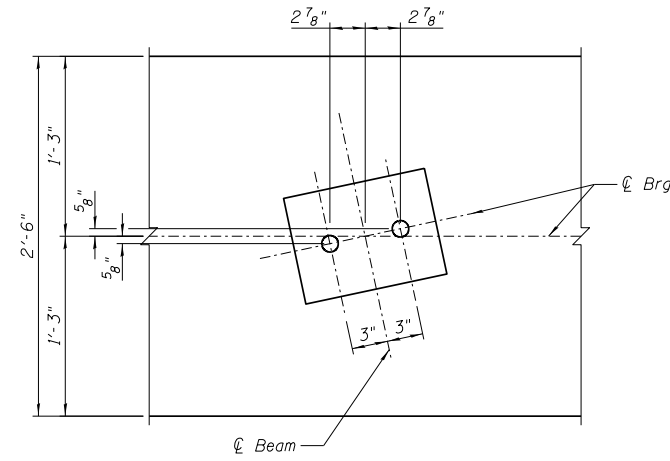
- 1.) Pour steps monolithically with cap.
- 2.) Order v104(E) and v105(E) bars full length. Cut according to Bar Cutting Diagram on Sheet A31. Use remainder of bars in opposite face of wingwall.
- 3.) Bend or cut h100(E) bars to miss piles.
- 4.) E.E. denotes Each End, F.F. denotes Front Face, B.F. denotes Back Face and E.F. denotes Each Face.
- 5.) See Sheet A31 for Section A-A, Section B-B and other details.



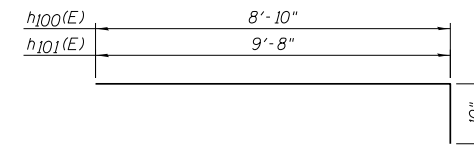
SECTION A-A



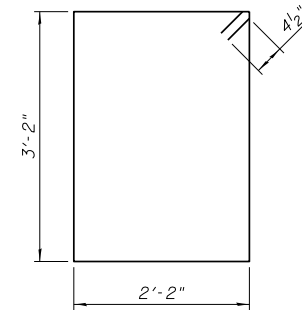
SECTION B-B



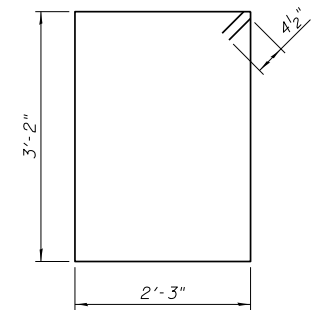
TYPICAL ANCHOR BOLT PLACEMENT DETAIL



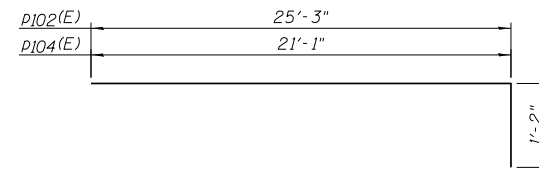
h₁₀₀ (E) & h₁₀₁ (E) BAR



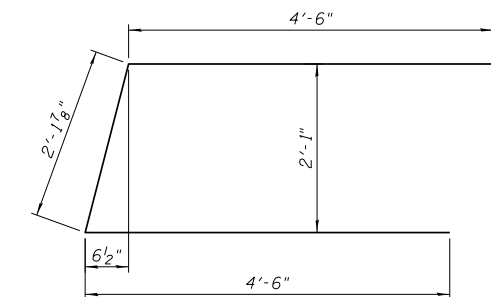
s₁₀₂ (E) BAR



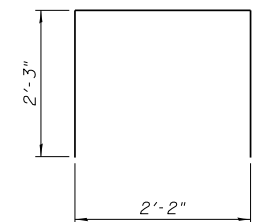
s₁₀₃ (E) BAR



p₁₀₂ (E) & p₁₀₄ (E) BAR



u₁₀₀ (E) BAR



u₁₀₁ (E) BAR

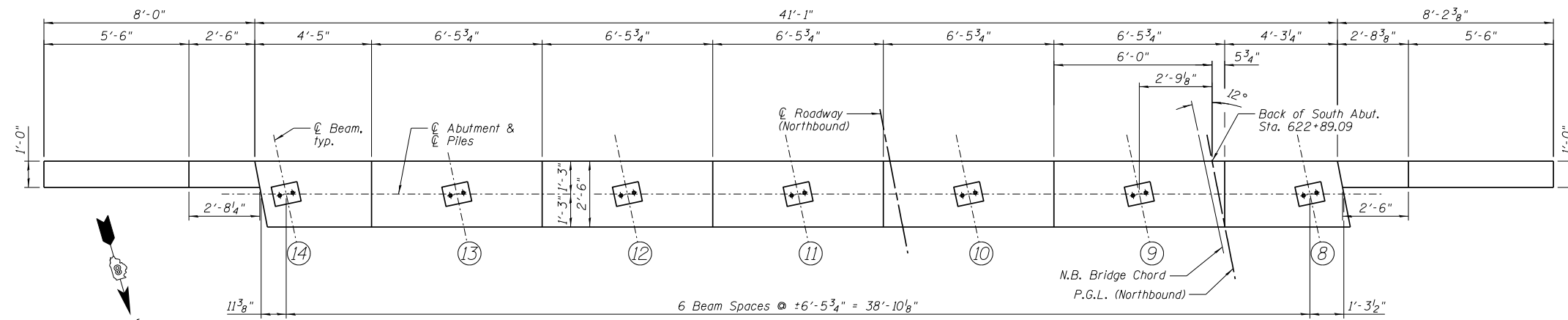
BAR CUTTING DIAGRAM							
BAR	A	B	C	D	E	F	L
v104(E)	6'-3"	7'-11"	6'-3"	7'-11"	1	6	14'-2"
v105(E)	5'-6"	7'-2"	5'-6"	7'-2"	1	6	12'-8"

NOTE:

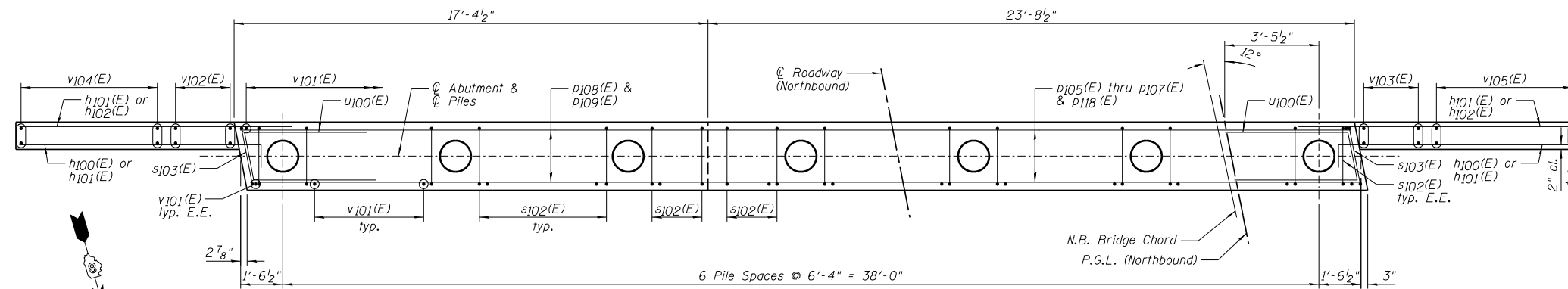
See Sheet A30 for locations of Section A-A and Section B-B.

**SOUTH ABUTMENT
BILL OF MATERIAL**

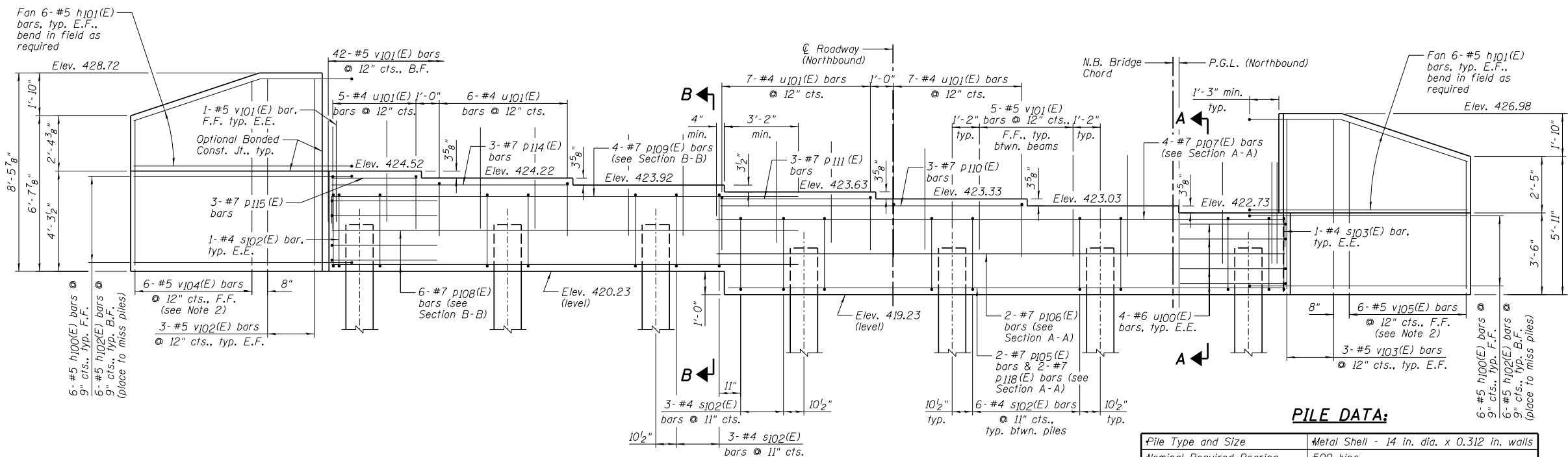
Bar	No.	Size	Length	Shape
h100(E)	1	#5	9'-8"	—
h101(E)	24	#5	10'-6"	—
h102(E)	1	#5	10'-4"	—
p105(E)	2	#7	23'-3"	—
p106(E)	2	#7	24'-6"	—
p107(E)	4	#7	25'-8"	—
p108(E)	6	#7	20'-9"	—
p109(E)	4	#7	21'-11"	—
p110(E)	3	#7	12'-8"	—
p111(E)	3	#7	6'-2"	—
p114(E)	3	#7	10'-1"	—
p115(E)	3	#7	3'-7"	—
p118(E)	2	#7	23'-6"	—
s102(E)	38	#4	11'-5"	□
s103(E)	2	#4	11'-7"	□
u100(E)	8	#6	11'-2"	—
u101(E)	25	#4	6'-8"	—
v101(E)	74	#5	4'-4"	—
v102(E)	6	#5	8'-1"	—
v103(E)	6	#5	7'-4"	—
v104(E)	6	#5	14'-2"	—
v105(E)	6	#5	12'-8"	—
Item	Unit	Quantity		
Structure Excavation	Cu. Yd.	103		
Concrete Structures	Cu. Yd.	19.6		
Reinforcement Bars, Epoxy Coated	Pound	2,780		
Furnishing Metal Shell Piles 14" x 0.312"	Foot	468		
Driving Piles	Foot	468		
Test Pile Metal Shells	Each	1		
Geocomposite Wall Drain Structures 4"	Sq. Yd.	43		
Pipe Underdrains for Structures 4"	Foot	78		
Porous Granular Embankment, Special	Cu. Yd.	83		



TOP VIEW ABUTMENT (SHOWING BEARING SEAT)



PLAN - PILE CAP



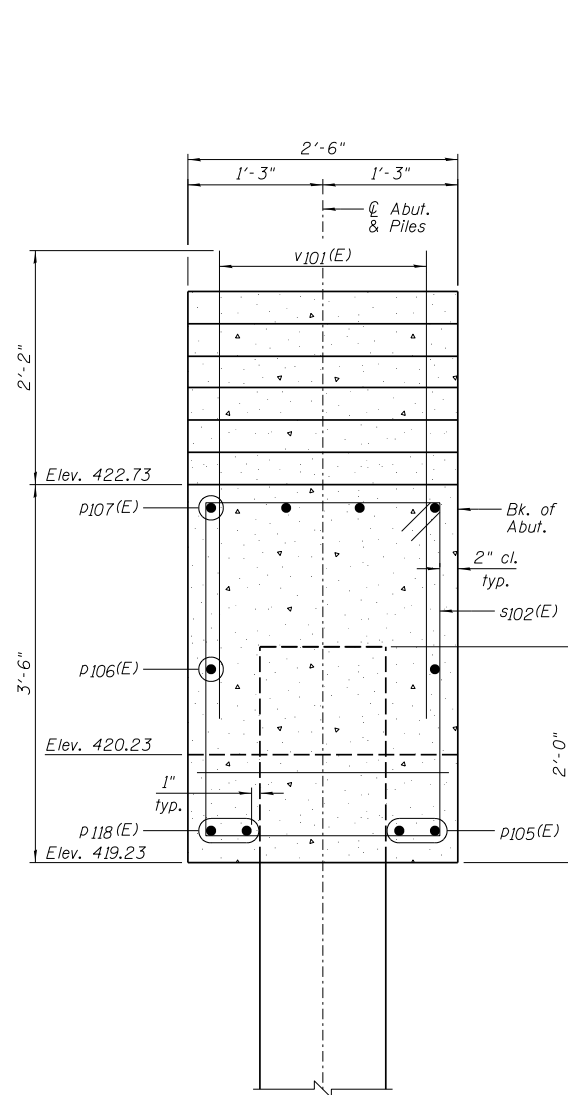
**ELEVATION
(Looking South)**

PILE DATA:

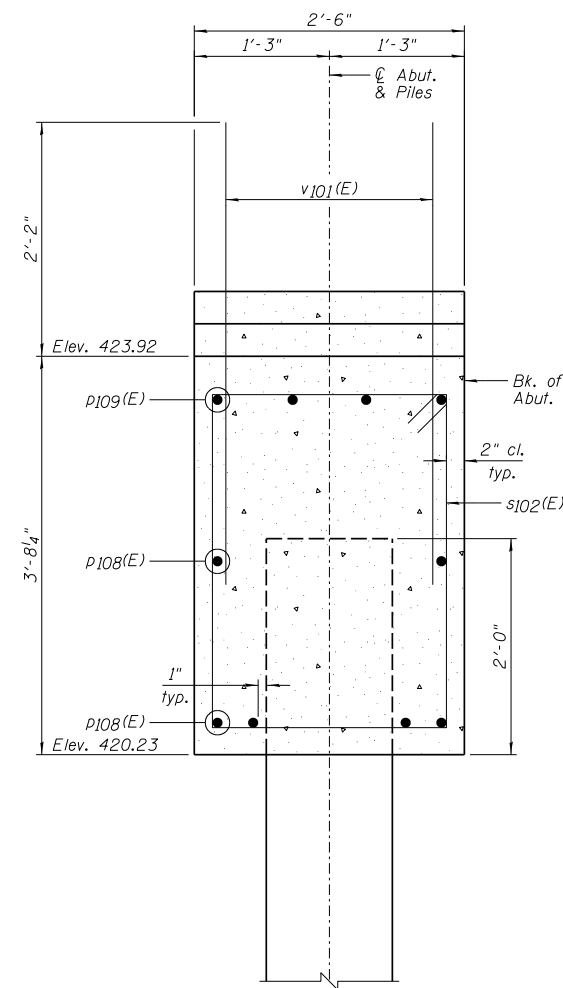
File Type and Size	Metal Shell - 14 in. dia. x 0.312 in. walls
Nominal Required Bearing	500 kips
Factored Resistance Available	275 kips
Estimated Pile Length	78 Feet
Number of Production Piles	6
Number of Test Piles	1

NOTES:

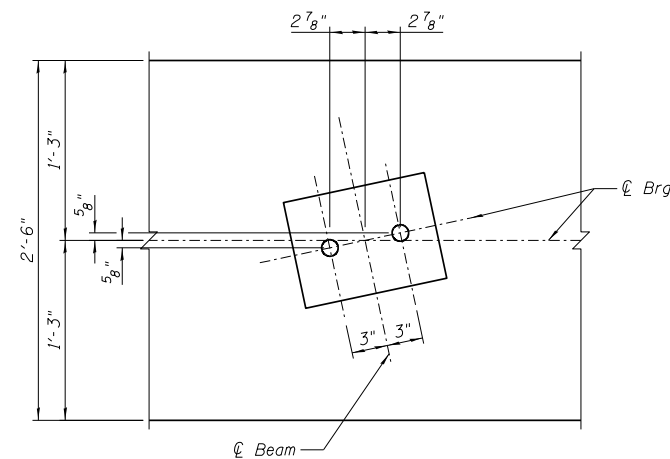
- 1.) Pour steps monolithically with cap.
- 2.) Order v104(E) and v105(E) bars full length. Cut according to Bar Cutting Diagram on Sheet A33. Use remainder of bars in opposite face of wingwall.
- 3.) Bend or cut h100(E) bars to miss piles.
- 4.) E.E. denotes Each End, F.F. denotes Front Face, B.F. denotes Back Face and E.F. denotes Each Face.
- 5.) See Sheet A33 for Section A-A, Section B-B and other details.



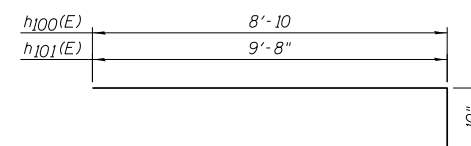
SECTION A-A



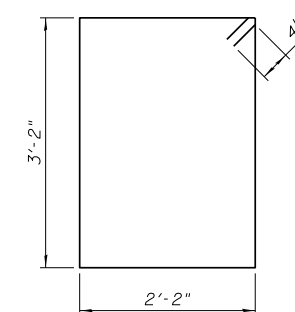
SECTION B-B



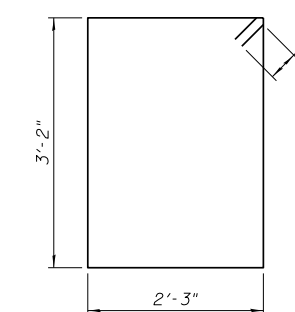
TYPICAL ANCHOR BOLT PLACEMENT DETAIL



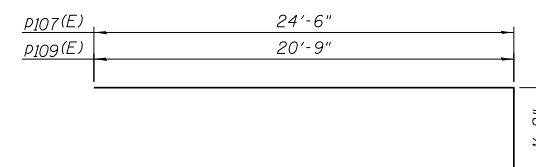
h₁₀₀ (E) & h₁₀₁ (E) BAR



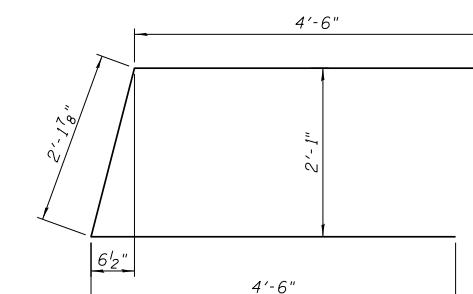
s₁₀₂ (E) BAR



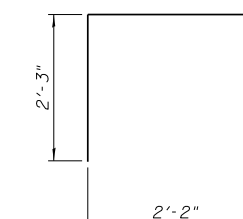
s₁₀₃ (E) BAR



p₁₀₇ (E) & p₁₀₉ (E) BAR



u₁₀₀ (E) BAR



u₁₀₁ (E) BAR

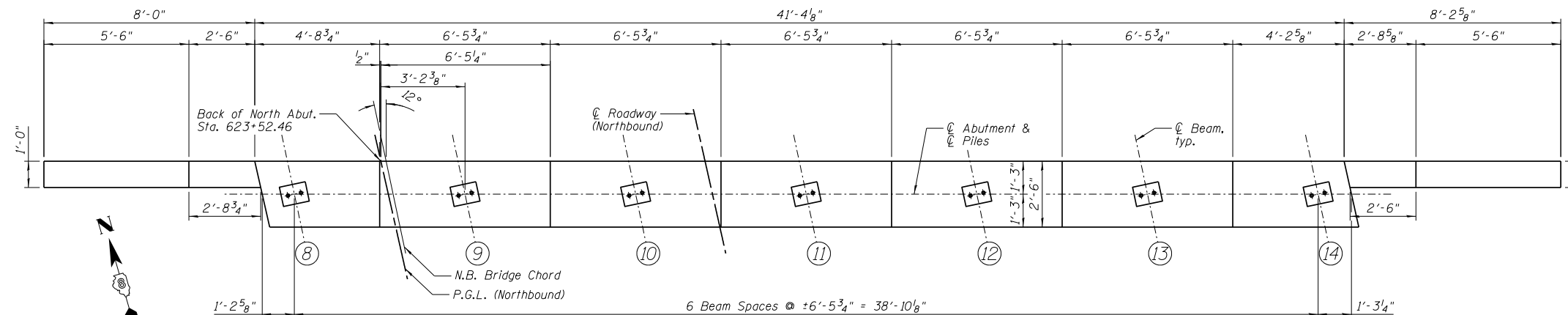
BAR CUTTING DIAGRAM							
	L		D				
	A						
	E SETS OF F BARS		CUT LINE				
	B		C				
BAR	A	B	C	D	E	F	L
v104(E)	6'-3"	7'-11"	6'-3"	7'-11"	1	6	14'-2"
v105(E)	5'-6"	7'-2"	5'-6"	7'-2"	1	6	12'-8"

NOTE:

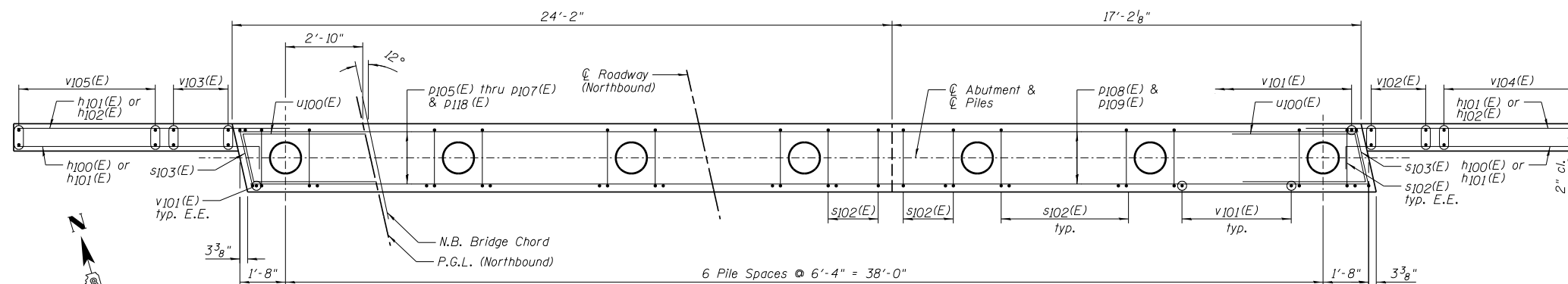
See Sheet A32 for locations of Section A-A and Section B-B.

**NORTH ABUTMENT
BILL OF MATERIAL**

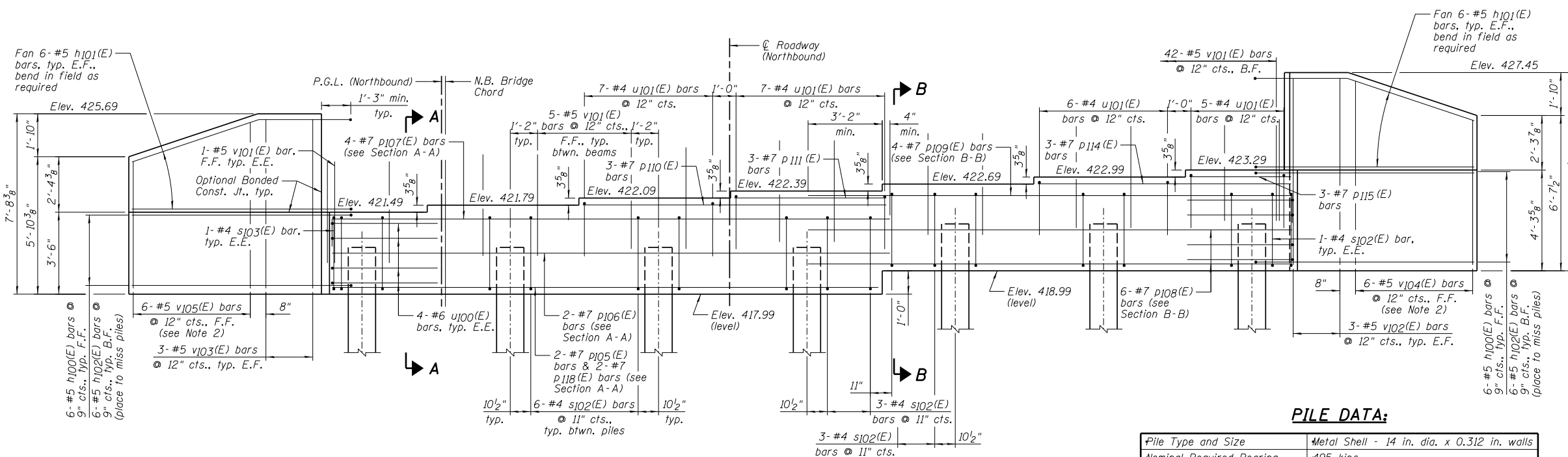
Bar	No.	Size	Length	Shape
h100(E)	1	#5	9'-8"	—
h101(E)	24	#5	10'-6"	—
h102(E)	1	#5	10'-4"	—
p105(E)	2	#7	23'-3"	—
p106(E)	2	#7	24'-6"	—
p107(E)	4	#7	25'-8"	—
p108(E)	6	#7	20'-9"	—
p109(E)	4	#7	21'-11"	—
p110(E)	3	#7	12'-8"	—
p111(E)	3	#7	6'-2"	—
p114(E)	3	#7	10'-1"	—
p115(E)	3	#7	3'-7"	—
p118(E)	2	#7	23'-6"	—
s102(E)	38	#4	11'-5"	—
s103(E)	2	#4	11'-7"	—
u100(E)	8	#6	11'-2"	—
u101(E)	25	#4	6'-8"	—
v101(E)	74	#5	4'-4"	—
v102(E)	6	#5	8'-1"	—
v103(E)	6	#5	7'-4"	—
v104(E)	6	#5	14'-2"	—
v105(E)	6	#5	12'-8"	—
Item	Unit	Quantity		
Structure Excavation	Cu. Yd.	192		
Concrete Structures	Cu. Yd.	19.7		
Reinforcement Bars, Epoxy Coated	Pound	2,780		
Furnishing Metal Shell Piles 14" x 0.312"	Foot	564		
Driving Piles	Foot	564		
Test Pile Metal Shells	Each	1		
Geocomposite Wall Drain	Sq. Yd.	43		
Pipe Underdrains for Structures 4"	Foot	78		
Porous Granular Embankment, Special	Cu. Yd.	82		



TOP VIEW ABUTMENT (SHOWING BEARING SEAT)



PLAN - PILE CAP



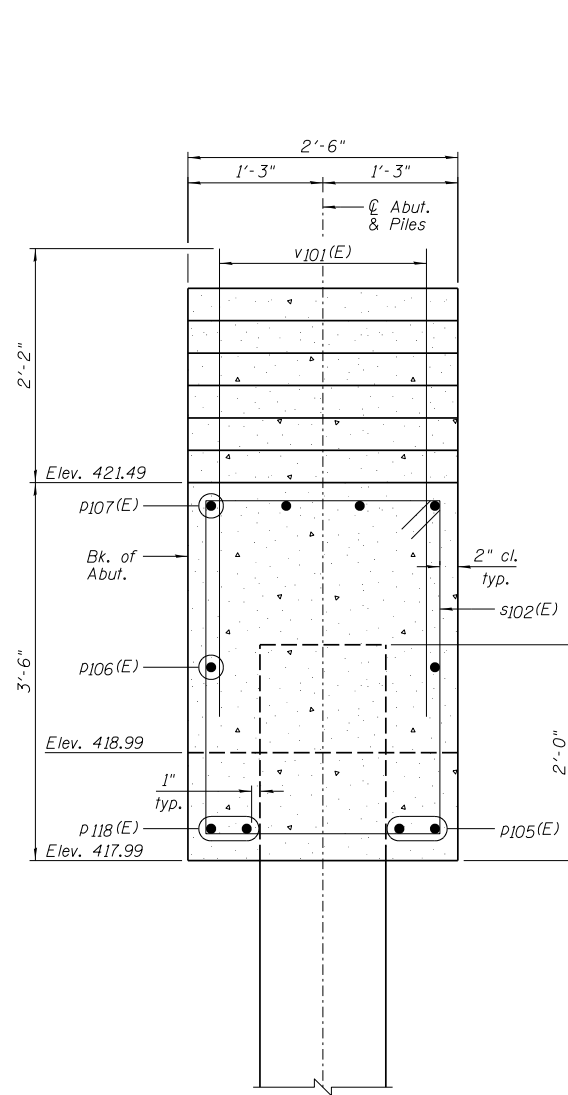
**ELEVATION
(Looking North)**

PILE DATA:

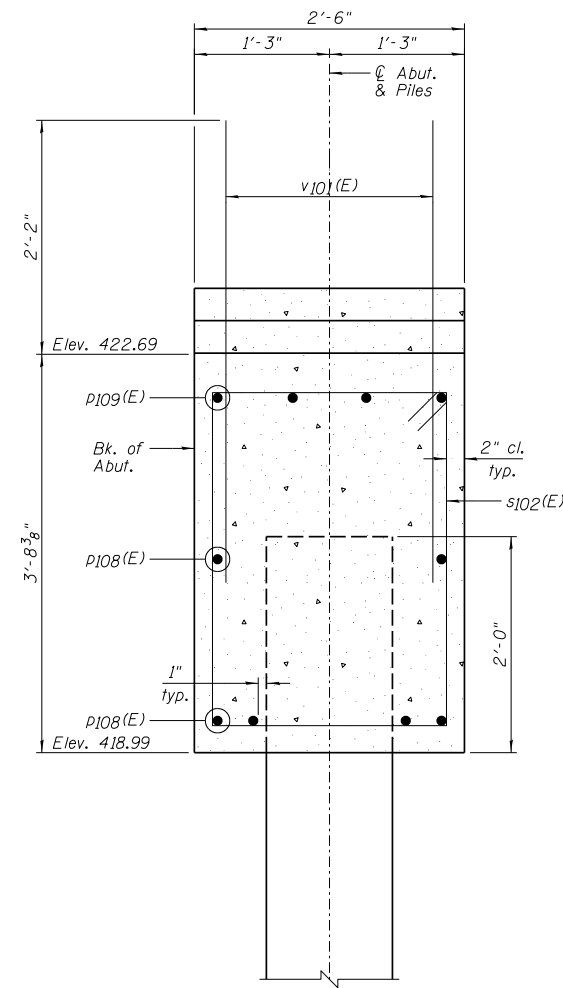
Pile Type and Size	Metal Shell - 14 in. dia. x 0.312 in. walls
Nominal Required Bearing	495 kips
Factored Resistance Available	272 kips
Estimated Pile Length	94 Feet
Number of Production Piles	6
Number of Test Piles	1

NOTES:

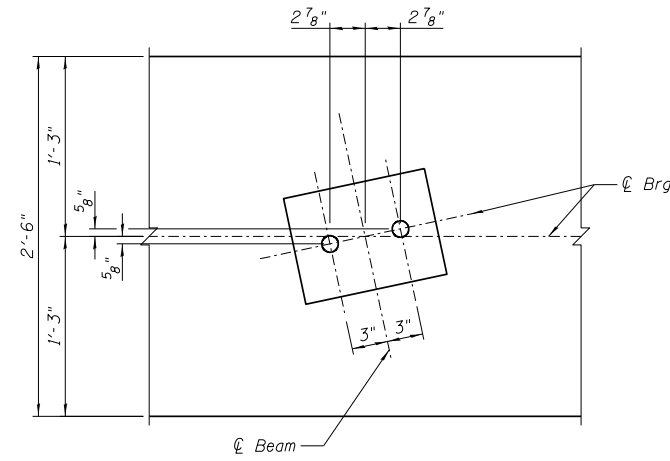
- 1.) Pour steps monolithically with cap.
- 2.) Order v104(E) and v105(E) bars full length. Cut according to Bar Cutting Diagram on Sheet A35. Use remainder of bars in opposite face of wingwall.
- 3.) Bend or cut h100(E) bars to miss piles.
- 4.) E.E. denotes Each End, F.F. denotes Front Face, B.F. denotes Back Face and E.F. denotes Each Face.
- 5.) See Sheet A35 for Section A-A, Section B-B and other details.



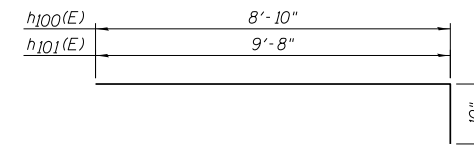
SECTION A-A



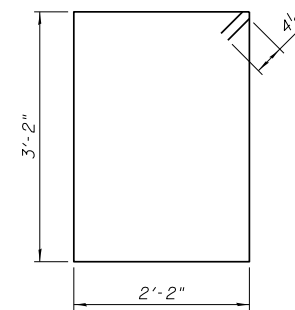
SECTION B-B



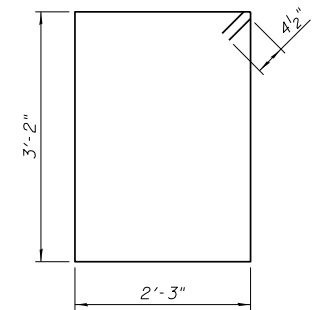
TYPICAL ANCHOR BOLT PLACEMENT DETAIL



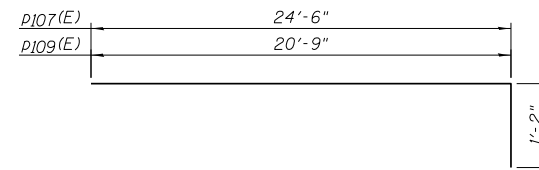
h₁₀₀ (E) & h₁₀₁ (E) BAR



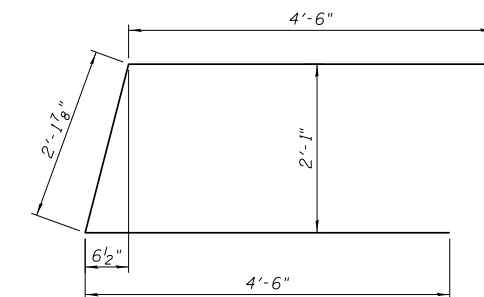
s₁₀₂ (E) BAR



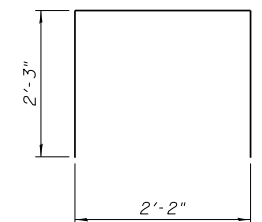
s₁₀₃ (E) BAR



p₁₀₇ (E) & p₁₀₉ (E) BAR



u₁₀₀ (E) BAR

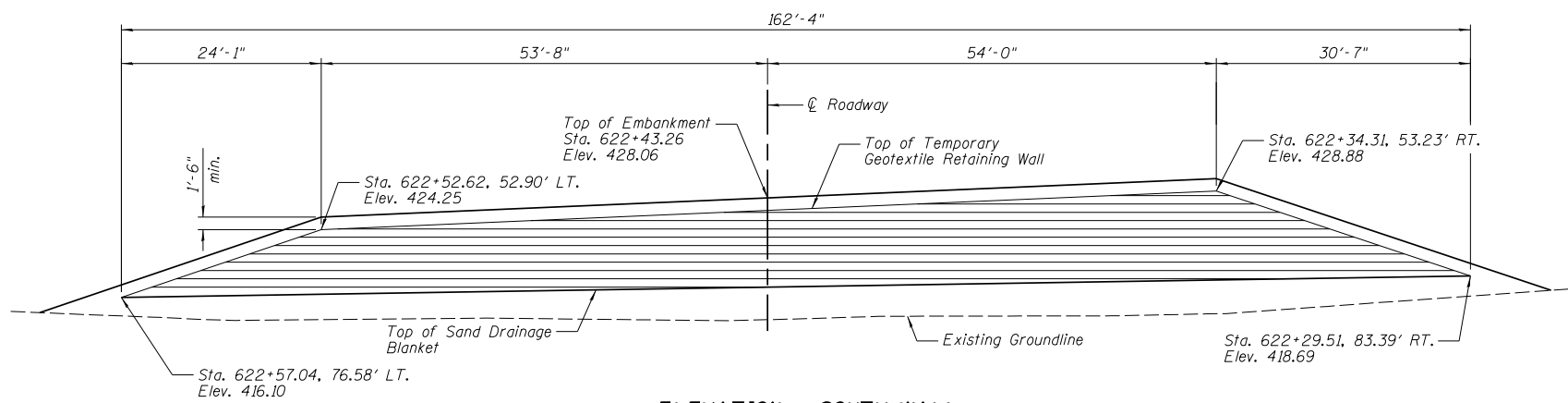


u₁₀₁ (E) BAR

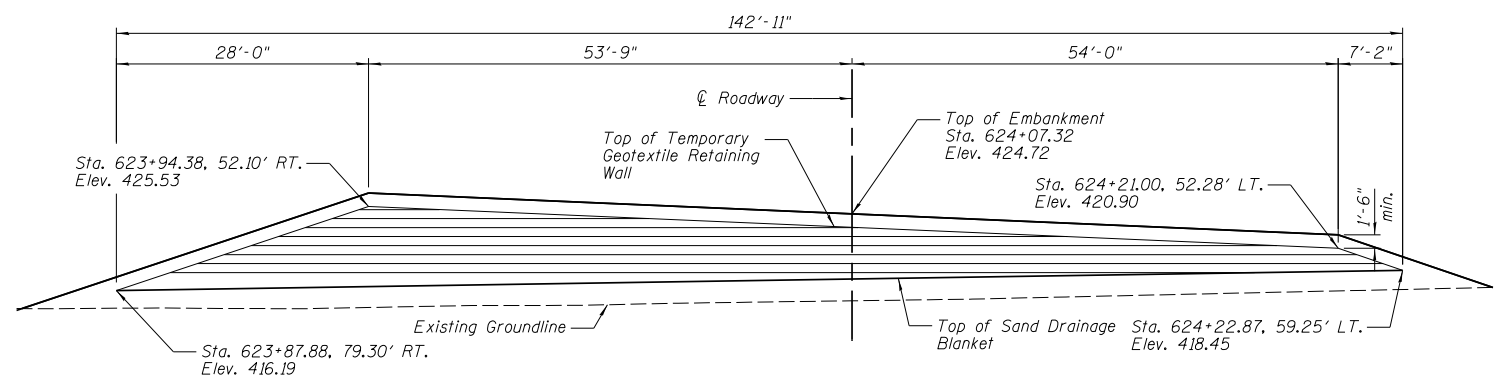
BAR CUTTING DIAGRAM							
	L		D				
	A						
	E SETS OF F BARS		CUT LINE				
	B		C				
BAR	A	B	C	D	E	F	L
v104(E)	6'-3"	7'-11"	6'-3"	7'-11"	1	6	14'-2"
v105(E)	5'-6"	7'-2"	5'-6"	7'-2"	1	6	12'-8"

NOTE:

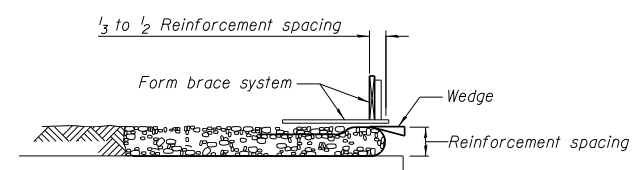
See Sheet A34 for locations of Section A-A and Section B-B.



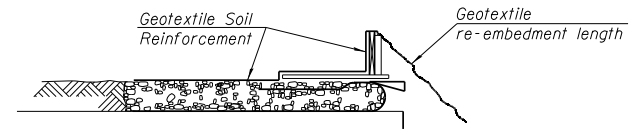
ELEVATION - SOUTH WALL
(Looking North)
(Horizontal dimensions measured along wall)
South Wall Area = 1,250 Sq. Ft.



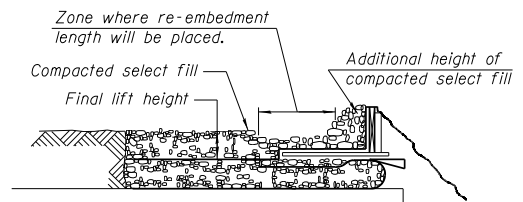
ELEVATION - NORTH WALL
(Looking South)
(Horizontal dimensions measured along wall)
North Wall Area = 751 Sq. Ft.



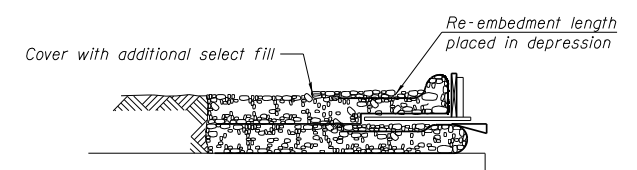
1. Place form brace system on completed reinforcement level; back from the finished fabric face a distance of $\frac{1}{3}$ to $\frac{1}{2}$ the geotextile reinforcement spacing.



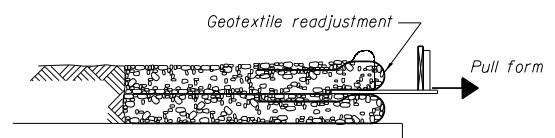
2. Position fabric so that the required geotextile re-embedment length extends over the top of the form brace and the design reinforcement width is placed with no slack against the previous level.



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

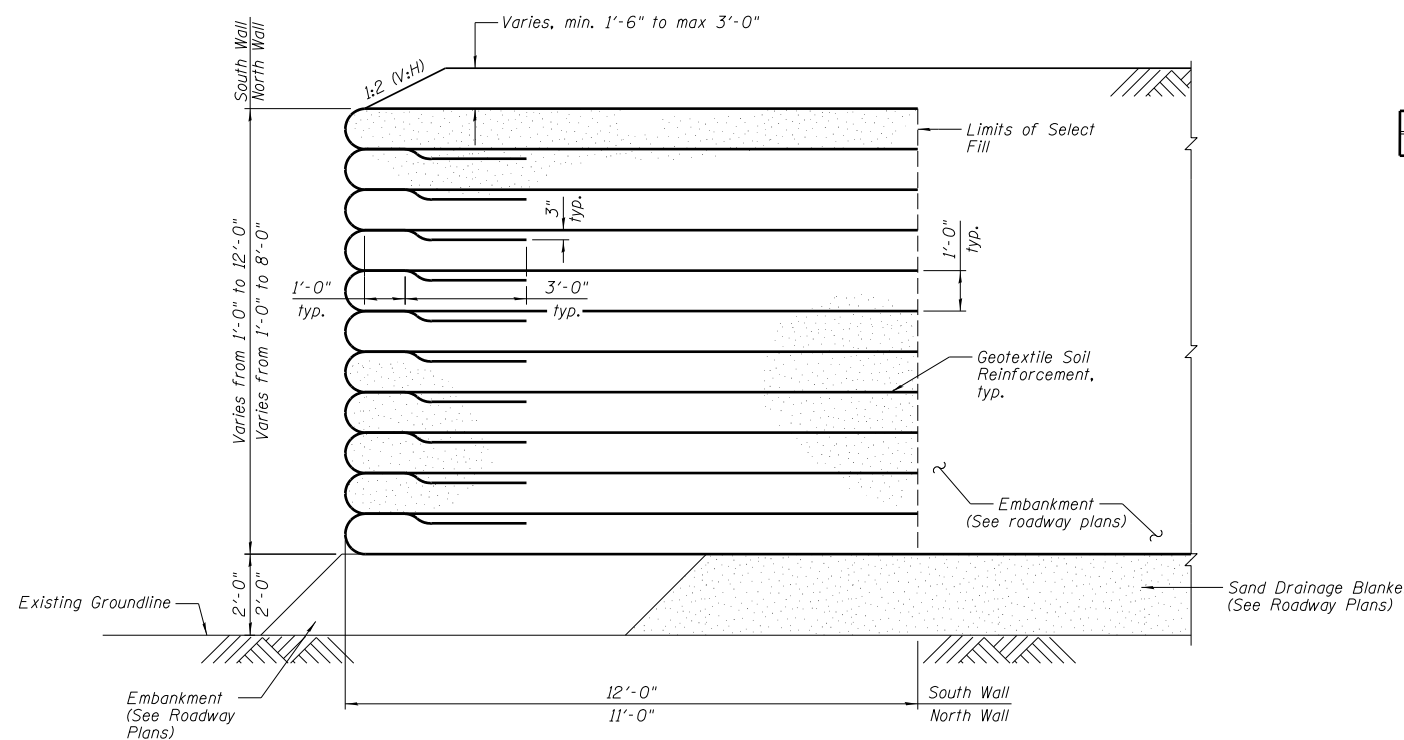


4. Fold geotextile re-embedment length back over form brace into zone where depression was made in select fill and place additional select fill (± 3 ") to embed geotextile and bring to final lift height.



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

TEMPORARY GEOTEXTILE WALL CONSTRUCTION SEQUENCE

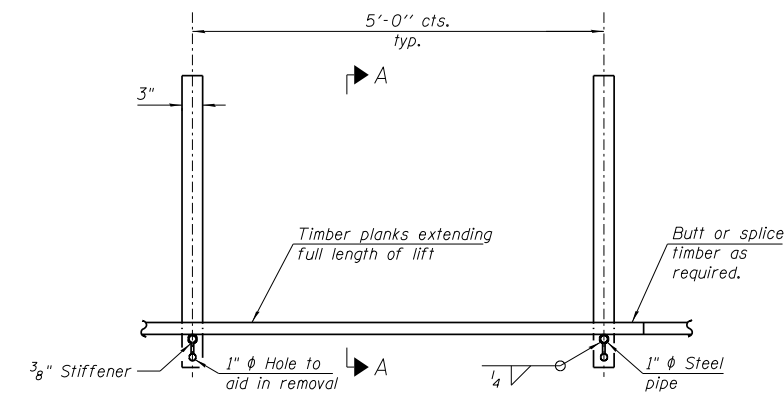


TYPICAL SECTION

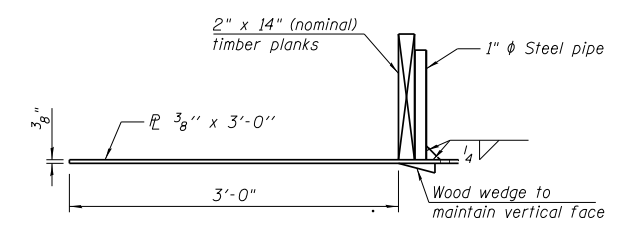
BILL OF MATERIAL

Item	Unit	Total
Geotextile Retaining Wall	Sq. Ft.	2,001

Note:
The geotextile soil reinforcement shall have a minimum allowable tensile strength (T min.) of 56 lb./in. (South Wall) and 49 lb./in. (North Wall) as determined by the procedure described in the Special Provision. The computations supporting the determination of (T min.) shall be submitted to the engineer for approval.



PLAN



SECTION A-A

TEMPORARY GEOTEXTILE FORM BRACE DETAIL

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



DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED
DATE - 06/26/12	

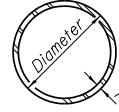
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY GEOTEXTILE RETAINING WALLS
STRUCTURE NO. 082-0385 NB & 082-0386 SB**

SHEET NO. A36 OF 48 SHEETS

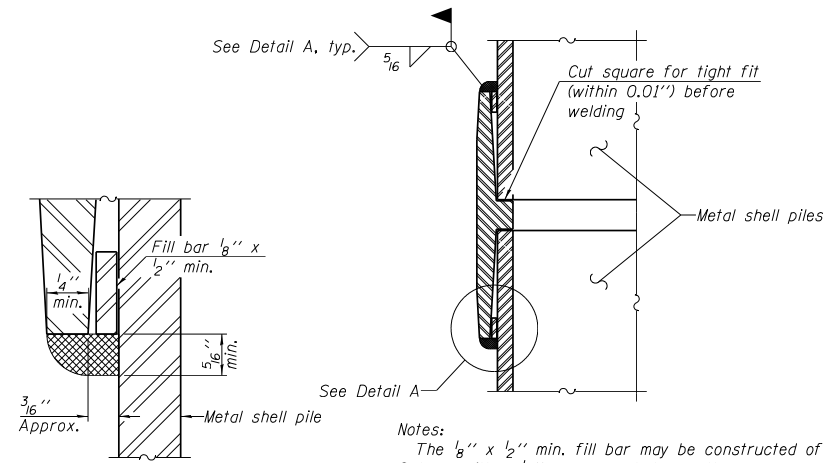
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	67
CONTRACT NO. 76F69				

ILLINOIS FED. AID PROJECT



METAL SHELL PILE TABLE

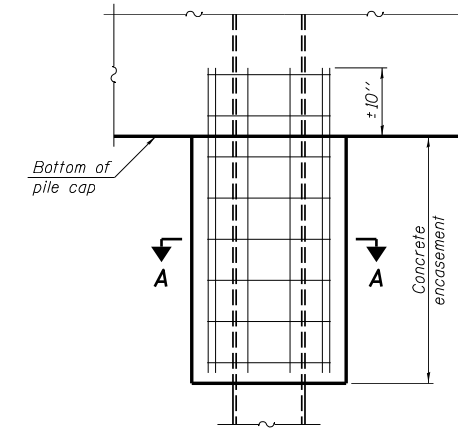
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



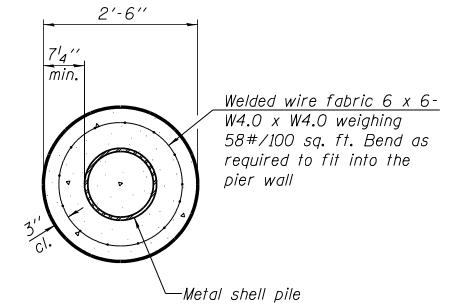
DETAIL A

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



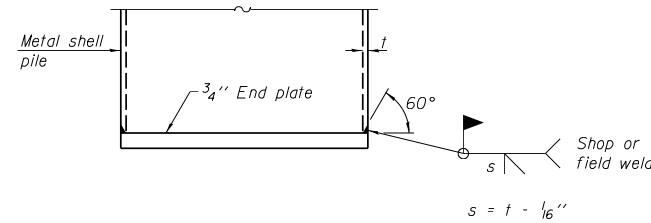
ELEVATION



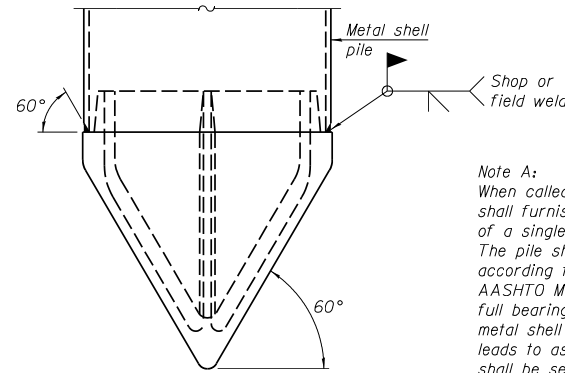
SECTION A-A

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

CONCRETE ENCASEMENT AT PIERS



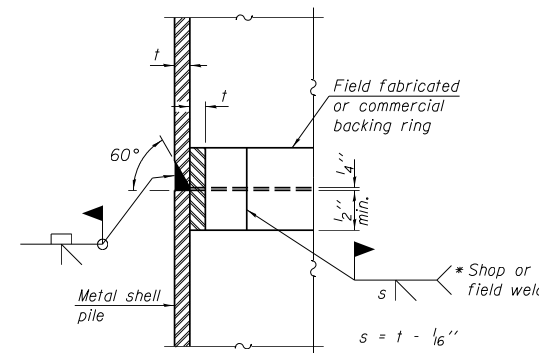
END PLATE ATTACHMENT



METAL SHELL PILE SHOE ATTACHMENT

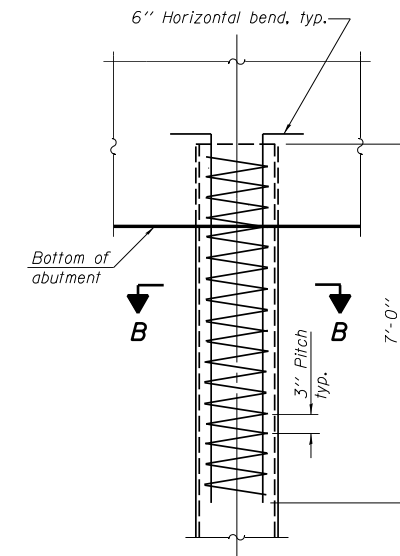
(See Note A)

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.

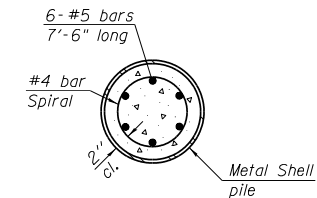


COMPLETE PENETRATION WELD SPLICE

* 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.



ELEVATION



SECTION B-B

METAL SHELL REINFORCEMENT AT ABUTMENTS

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

F-MS

1-27-12



DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED
DATE - 06/26/12	

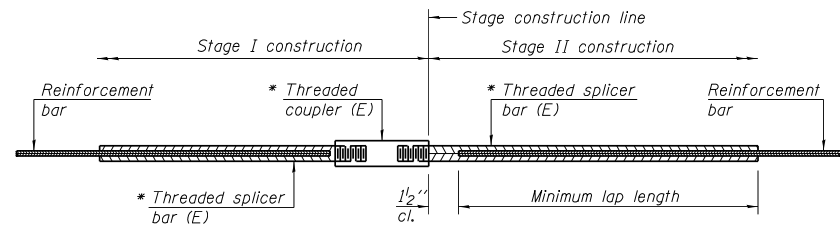
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**METAL SHELL PILE DETAILS
 STRUCTURE NO. 082-0385 NB & 082-0386 SB**

SHEET NO. A37 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	66
CONTRACT NO. 76F69				

ILLINOIS FED. AID PROJECT



STANDARD BAR SPLICER ASSEMBLY

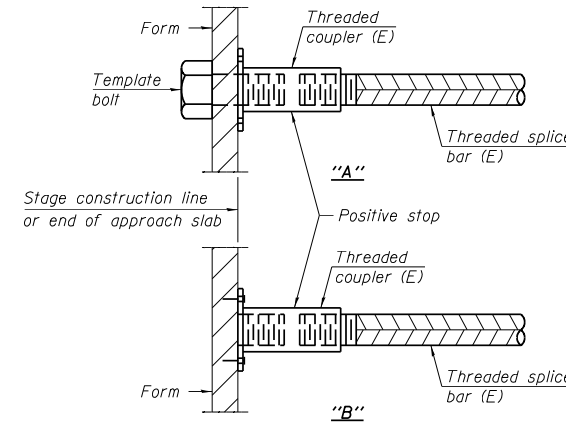
Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

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

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

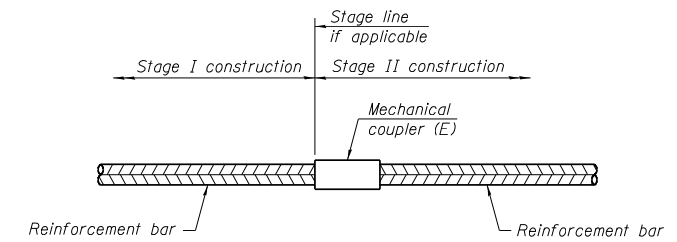
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



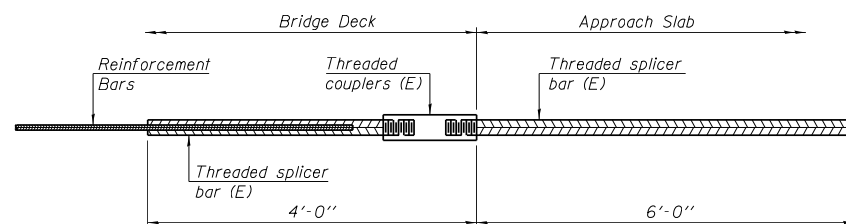
INSTALLATION AND SETTING METHODS

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



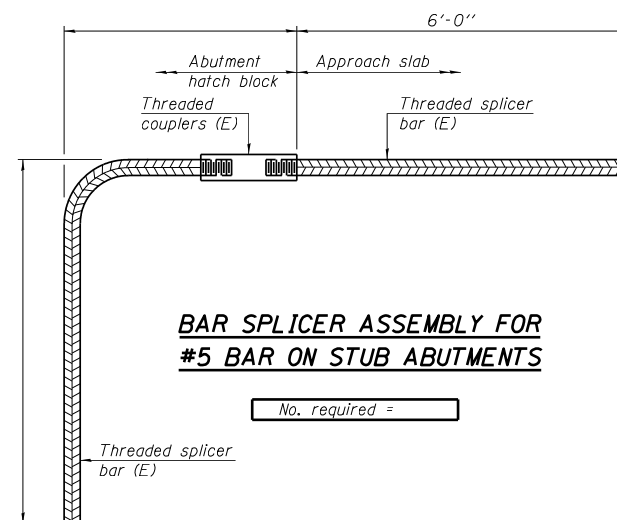
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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

No. required = 174



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

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

BSD-1

1-27-12

ILLINOIS DEPARTMENT OF TRANSPORTATION
Testing Service Corporation
STRUCTURE BORING LOG

Page 1 of 4
Date 12/9/11

ROUTE IL 3 DESCRIPTION Relocated IL 3 at MLK Bridge

SECT. 520-1-2B STRUCT. NO. 082-0386 DRILLED BY Bruno Williamson

COUNTY St. Clair LOCATION East St. Louis S. 12, TWP. 2N, RNG. 10W

Boring No.	D	B			Surface Water Elev.	D	B		
Station	E	L			Groundwater Elev.:	E	L		
Offset	P	O	Qu	W	when drilling	P	O	Qu	W
Surface Elev.	T	W	tsf	%	at Completion	T	W	tsf	%
	H	S			after	H	S		
412.20		3 7 12	P 0.75	23	388.70		1 1 2		30
408.70		1 1 2		11	386.70		1 2 1	P 0.5	56
406.20		3 1 1	P 0.5	39	381.20		4 5 9		
403.70		0 1 1	P 0.5	33	376.20		4 4 5		
398.70		0 1 1	P 0.25	35	371.20		6 10 16		
		0 0 1	P 0.25	45					
		0 2 1	P 0.25	43			4 7 13		

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

ILLINOIS DEPARTMENT OF TRANSPORTATION
Testing Service Corporation
STRUCTURE BORING LOG

Page 2 of 4
Date 12/9/11

STRUCTURE NO. 082-0386 ROUTE IL 3

SECTION 520-1-2B STRUCT. NO. 082-0386

COUNTY St. Clair COUNTY St. Clair

Boring No.	D	B			Surface Water Elev.	D	B		
Station	E	L			Groundwater Elev.:	E	L		
Offset	P	O	Qu	W	when drilling	P	O	Qu	W
Surface Elev.	T	W	tsf	%	at Completion	T	W	tsf	%
	H	S			after	H	S		
364.70					339.70				
		8 12 14					8 10 19		
		8 9 13			331.20		10 19 30		
		7 10 19					9 14 16		
		6 9 14					12 14 16		
		4 7 9			316.20		9 11 11		

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet



DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
DATE - 06/26/12	CHECKED - MSW
	REVISED

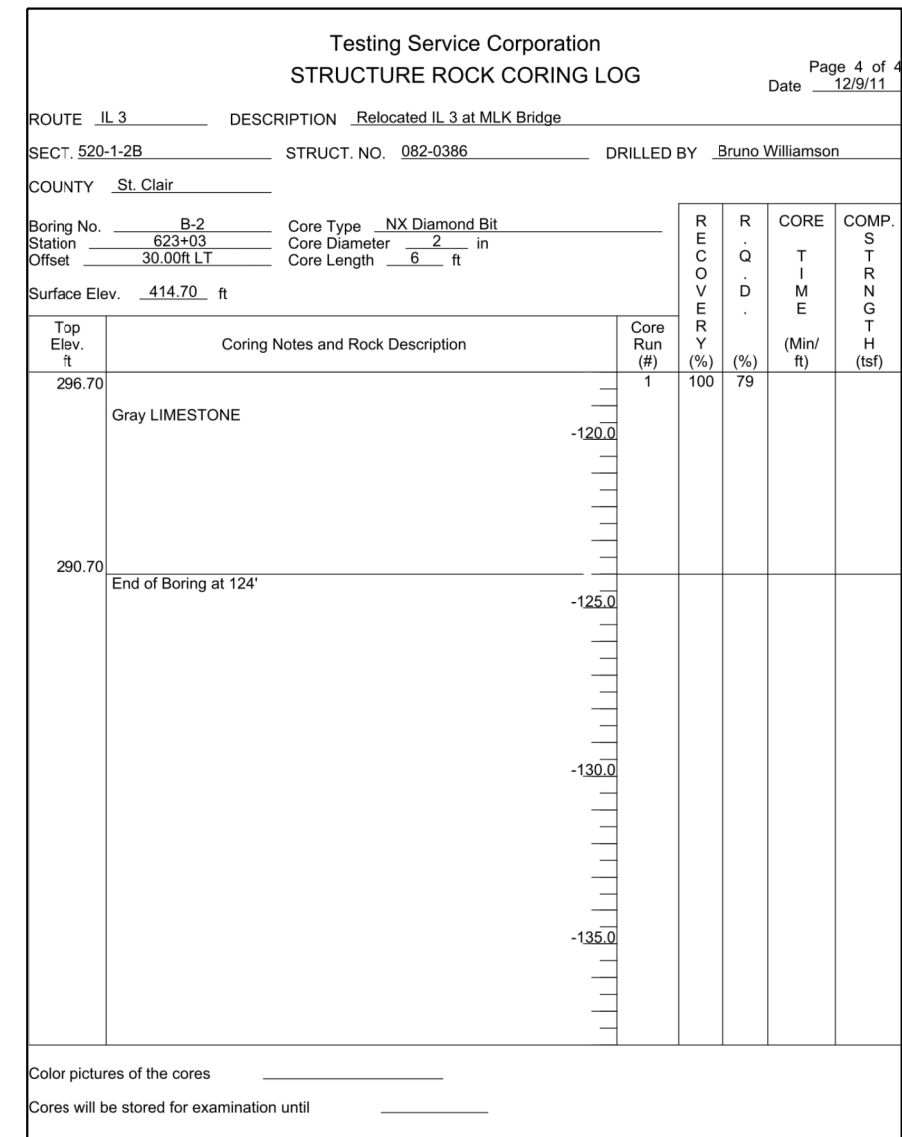
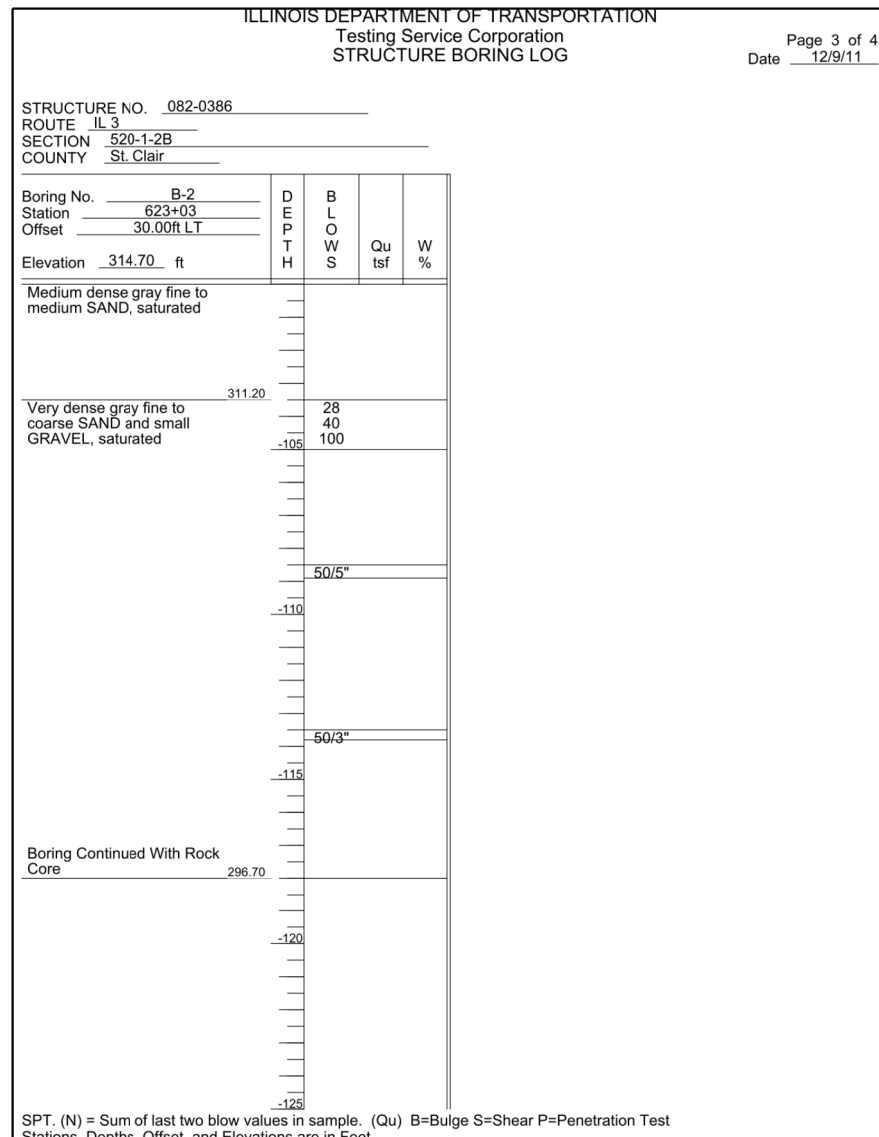
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS
STRUCTURE NO. 082-0385 NB & 082-0386 SB**

SHEET NO. A40 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	71
CONTRACT NO. 76F69				

ILLINOIS FED. AID PROJECT



ILLINOIS DEPARTMENT OF TRANSPORTATION
Testing Service Corporation
STRUCTURE BORING LOG

Page 1 of 1
Date 12/1/11

ROUTE IL 3 DESCRIPTION Relocated IL 3 at MLK Bridge
SECT. 520-1-2B STRUCT. NO. 082-0386 DRILLED BY Bruno Williamson
COUNTY St. Clair LOCATION East St. Louis S. 13, TWP. 2N, RNG. 10W

Boring No.	D	B			Surface Water Elev.	D	B		
Station	E	L			Groundwater Elev.:	E	L		
Offset	P	O	Qu	W	when drilling	P	O	Qu	W
Surface Elev.	T	W	tsf	%	at Completion	T	W	tsf	%
	H	S			after	H	S		
416.40 ft									
Medium stiff dark brown SILTY LOAM, with brick fragments, moist					390.40				
		1	P	24	Very soft gray SILTY CLAY, very moist		1	P	51
414.40		2		1.0			2		0.25
		3					2		
Stiff to medium stiff brown SILTY LOAM, moist to very moist					387.90				
		PUSH	P	27	Very loose gray SILT, very moist		PUSH		37
				1.25					
					385.90				
					Very soft gray SILTY CLAY, very moist				
		PUSH	B	32					
				0.79					
					382.40		2	P	55
406.40		2	P	33	Loose gray fine silty SAND, saturated		4		0.25
		2		0.75			2		
		3			End of Boring at 35'				
		0		31					
		1							
		2							
403.90									
Medium stiff brown SILTY LOAM, very moist									
		PUSH	P	31					
				0.75					
400.40									
Stiff brown SILTY CLAY, very moist									
		1	B	32					
		2		1.03					
		3							
397.90									
Soft brown SANDY LOAM, moist									
		PUSH	P	26					
				0.5					
395.40									
Very soft gray SILTY CLAY, very moist									
		1	P	51					
		1		0.25					
		1							
392.90									
Very soft gray SANDY LOAM, moist									
		PUSH	P	27					
				0.25					

SPT, (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet



DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
DATE - 06/26/12	CHECKED - MSW
	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 082-0385 NB & 082-0386 SB

SHEET NO. A43 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	74
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				

ILLINOIS DEPARTMENT OF TRANSPORTATION
Testing Service Corporation
STRUCTURE BORING LOG

Page 1 of 3
Date 11/29/11

ROUTE IL 3 DESCRIPTION Relocated IL 3 at MLK Bridge

SECT. 520-1-2B STRUCT. NO. 082-0385 DRILLED BY Bruno Williamson

COUNTY St. Clair LOCATION East St. Louis S. 12, TWP. 2N, RNG. 10W

Boring No.	D	B		Surface Water Elev.	D	B	
Station	E	L		Groundwater Elev.:	E	L	
Offset	P	O		when drilling	P	O	
Surface Elev.	T	W	Qu	at Completion	T	W	Qu
	H	S	tsf	after	H	S	tsf
			W	Hrs.			W
			%				%
Loose brown fine SAND, damp							
		2				0	P 36
		3				3	0.5
		5				6	
				386.10			
		3				8	
		5				11	
		5				12	
				407.60			
Medium stiff dark brown SANDY LOAM, trace brick and asphalt fragments, moist to very moist		2	P			8	
		1	1.0			11	
		2				13	
				402.60			
Very loose brown-gray SILT, very moist		1				5	
		3				8	
		1				12	
				392.60			
Very soft gray SILTY CLAY, very moist		0	P			10	
		1	0.25			10	
		1				13	
				392.60			
		0	P			8	
		2	0.25			10	
		2				12	
				413.60			

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

ILLINOIS DEPARTMENT OF TRANSPORTATION
Testing Service Corporation
STRUCTURE BORING LOG

Page 2 of 3
Date 11/29/11

STRUCTURE NO. 082-0385 STRUCTURE NO. 082-0385

ROUTE IL 3 ROUTE IL 3

SECTION 520-1-2B SECTION 520-1-2B

COUNTY St. Clair COUNTY St. Clair

Boring No.	D	B		Elevation	D	B	
Station	E	L			E	L	
Offset	P	O			P	O	
Surface Elev.	T	W	Qu		T	W	Qu
	H	S	tsf		H	S	tsf
			W				W
			%				%
Medium dense gray fine to medium SAND, saturated							
						5	
						9	
						18	
				348.60			
						8	
						11	
						18	
				338.60			
Medium dense gray medium to coarse SAND, trace small gravel, saturated						5	
						10	
						14	
				348.60			
						7	
						12	
				323.60			
Dense gray medium to coarse SAND, some rock fragments, saturated						10	
						12	
						18	
				338.60			
						4	
						8	
						10	
				338.60			

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

ILLINOIS DEPARTMENT OF TRANSPORTATION
Testing Service Corporation
STRUCTURE BORING LOG

Page 3 of 3
Date 11/29/11

STRUCTURE NO. 082-0385

ROUTE IL 3

SECTION 520-1-2B

COUNTY St. Clair

Boring No.	D	B		Elevation	D	B	
Station	E	L			E	L	
Offset	P	O			P	O	
Surface Elev.	T	W	Qu		T	W	Qu
	H	S	tsf		H	S	tsf
			W				W
			%				%
Dense to very dense gray medium to coarse SAND, some rock fragments, saturated							
						6	
						8	
						9	
				296.60			
						20	
						19	
						20	
				407.60			
Possible cobbles at 107'.							
						29	
						40	
						45	
				402.60			
				392.60			
End of Boring at 117.0' Auger Refusal							
						10	
						12	
						18	
				313.60			
				296.60			
				313.60			

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet



DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
CHECKED - MSW	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS
STRUCTURE NO. 082-0385 NB & 082-0386 SB**

SHEET NO. A45 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	76
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				

ILLINOIS DEPARTMENT OF TRANSPORTATION
Testing Service Corporation
STRUCTURE BORING LOG

Page 1 of 4
Date 12/7/11

ROUTE IL 3 DESCRIPTION Relocated IL 3 at MLK Bridge

SECT. 520-1-2B STRUCT. NO. 082-0385 DRILLED BY Bruno Williamson

COUNTY St. Clair LOCATION East St. Louis S. 12, TWP. 2N, RNG. 10W

Boring No.	D	B			Surface Water Elev.	D	B		
Station	E	L			Groundwater Elev.:	E	L		
Offset	P	O	Qu	W	when drilling	P	O	Qu	W
Surface Elev.	T	W	tsf	%	at Completion	T	W	tsf	%
	H	S			after	H	S		
414.40					400.9				
Stiff dark brown SANDY LOAM, moist					Very soft gray SILTY CLAY, very moist				
		9	P	17			0	P	47
		9	2.0				1	0.25	
		10					2		
409.90		6	P	17			5	P	56
		6	2.0				7	0.25	
		6					15		
408.40		4	P	14					
		6	2.0						
		7							
404.40		4		5	380.90		2		
		5			Medium dense gray fine to medium SAND, saturated		7		
		5					8		
404.40		3		28					
		1							
		2		29			9		
		1					9		
		1					8		
396.90		1		32					
		1							
		0	P	34	370.90		7		
		1	0.25		Medium dense gray fine SAND, saturated		9		
394.90		1					11		
		1							
393.40		0	P	42					
		0	0.25						
		1							
389.40		0	P	51			3		
		1	0.25				8		
		1					10		

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet

ILLINOIS DEPARTMENT OF TRANSPORTATION
Testing Service Corporation
STRUCTURE BORING LOG

Page 2 of 4
Date 12/7/11

STRUCTURE NO. 082-0385 ROUTE IL 3

SECTION 520-1-2B STRUCT. NO. 082-0385

COUNTY St. Clair LOCATION East St. Louis S. 12, TWP. 2N, RNG. 10W

Boring No.	D	B			Surface Water Elev.	D	B		
Station	E	L			Groundwater Elev.:	E	L		
Offset	P	O	Qu	W	when drilling	P	O	Qu	W
Surface Elev.	T	W	tsf	%	at Completion	T	W	tsf	%
	H	S			after	H	S		
364.40									
Medium dense gray fine SAND, saturated					339.40				
					Medium dense gray fine to medium SAND, saturated				
		4					6		
		6					8		
		8					11		
349.40		4		5	325.90		4		
		8			Medium dense gray fine to coarse SAND, saturated		7		
		8					10		
		16					10		
349.40		6		14					
		9							
		14							
349.40		8		22	320.90		22		
		12			Dense gray fine to coarse SAND, saturated		22		
		17					20		
					Possible cobbles below 93.5'				
		4							
		4					10		
		9					16		
							23		

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet



DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
DATE - 06/26/12	CHECKED - MSW
	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS
STRUCTURE NO. 082-0385 NB & 082-0386 SB**

SHEET NO. A46 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	77
CONTRACT NO. 76F69				

ILLINOIS FED. AID PROJECT

ILLINOIS DEPARTMENT OF TRANSPORTATION
Testing Service Corporation
STRUCTURE BORING LOG

Page 1 of 1
Date 12/1/11

ROUTE IL 3 DESCRIPTION Relocated IL 3 at MLK Bridge
SECT. 520-1-2B STRUCT. NO. 082-0385 DRILLED BY Bruno Williamson
COUNTY St. Clair LOCATION East St. Louis S. 13, TWP. 2N, RNG. 10W

Boring No.	D	B			Surface Water Elev.	D	B		
Station	E	L			Groundwater Elev.:	E	L		
Offset	P	O	Qu	W	when drilling	P	O	Qu	W
Surface Elev.	T	W	tsf	%	at Completion	T	W	tsf	%
	H	S			after	H	S		
					Hrs.				
Medium stiff to stiff dark brown SILTY LOAM, with brick fragments, moist to very moist									
		1	P	20			PUSH	P	44
		3		0.75					0.75
		3							
		3	P	35	386.70		0	B	47
		9		1.5			2		0.86
		4					6		
Stiff brown SILTY LOAM, very moist			PUSH	P	385.70				
				1.25					
		2	P	31					
		4		1.75					
		2							
Soft to medium stiff brown SILTY LOAM, very moist			PUSH	P					
				0.5					
		1	P	34					
		1		0.5					
		1							
			PUSH	B					
				0.72					
		2	P	33					
		2		0.75					
		3							
Very soft gray SILTY LOAM, moist			PUSH	P					
				0.25					
		0	B	48					
		1		0.57					
		2							

SPT, (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test
Stations, Depths, Offset, and Elevations are in Feet



DESIGNED - TCR/JCZ	REVISED
CHECKED - JML	REVISED
DRAWN - DJM/JWK	REVISED
DATE - 06/26/12	CHECKED - MSW
	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

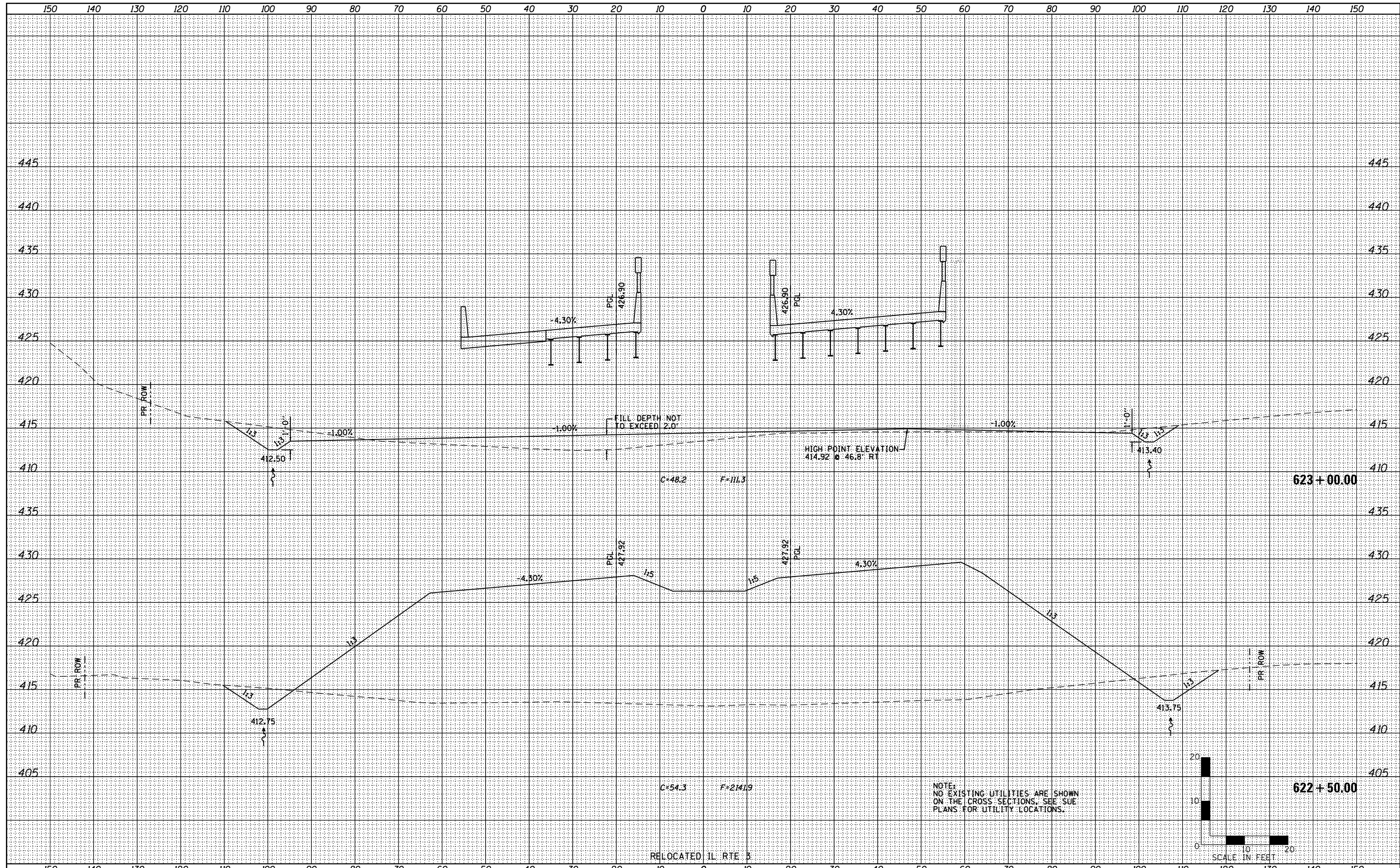
SOIL BORING LOGS
STRUCTURE NO. 082-0385 NB & 082-0386 SB

SHEET NO. A48 OF 48 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	79
CONTRACT NO. 76F69			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

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



NOTE:
NO EXISTING UTILITIES ARE SHOWN
ON THE CROSS SECTIONS. SEE SUE
PLANS FOR UTILITY LOCATIONS.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

Farnsworth
GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

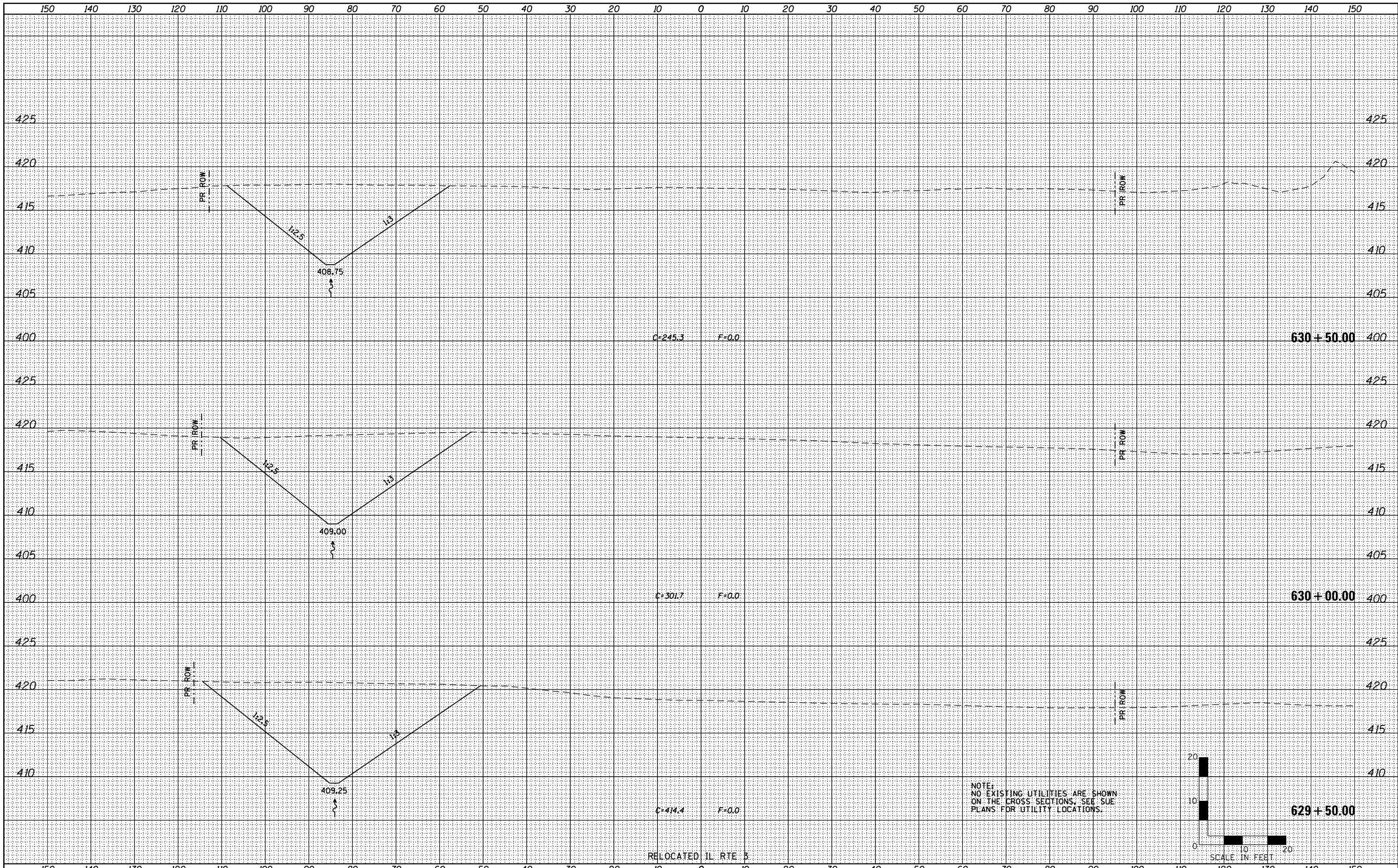
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	DRAWN - JJO	REVISD -
PLOT SCALE = 1/8" = 10' / in.	CHECKED - PJM	REVISD -
PLOT DATE = 7/29/2012	DATE - 06/26/12	REVISD -

SCALE:	SHEET NO.	OF	SHEETS	STA. 622+50.00	TO STA. 623+00.00
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	81
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				

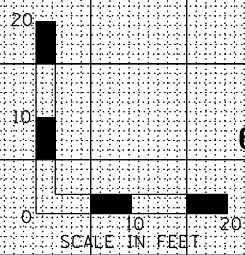
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED

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



RELOCATED IL RTE 3

NOTE:
NO EXISTING UTILITIES ARE SHOWN
ON THE CROSS SECTIONS. SEE SUE
PLANS FOR UTILITY LOCATIONS.



Farnsworth GROUP INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

USER NAME = jochaner	DESIGNED - JJ0	REVISED -
	DRAWN - JJ0	REVISED -
PLOT SCALE = 1/200.0000" / in.	CHECKED - PJM	REVISED -
PLOT DATE = 7/29/2012	DATE - 06/26/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

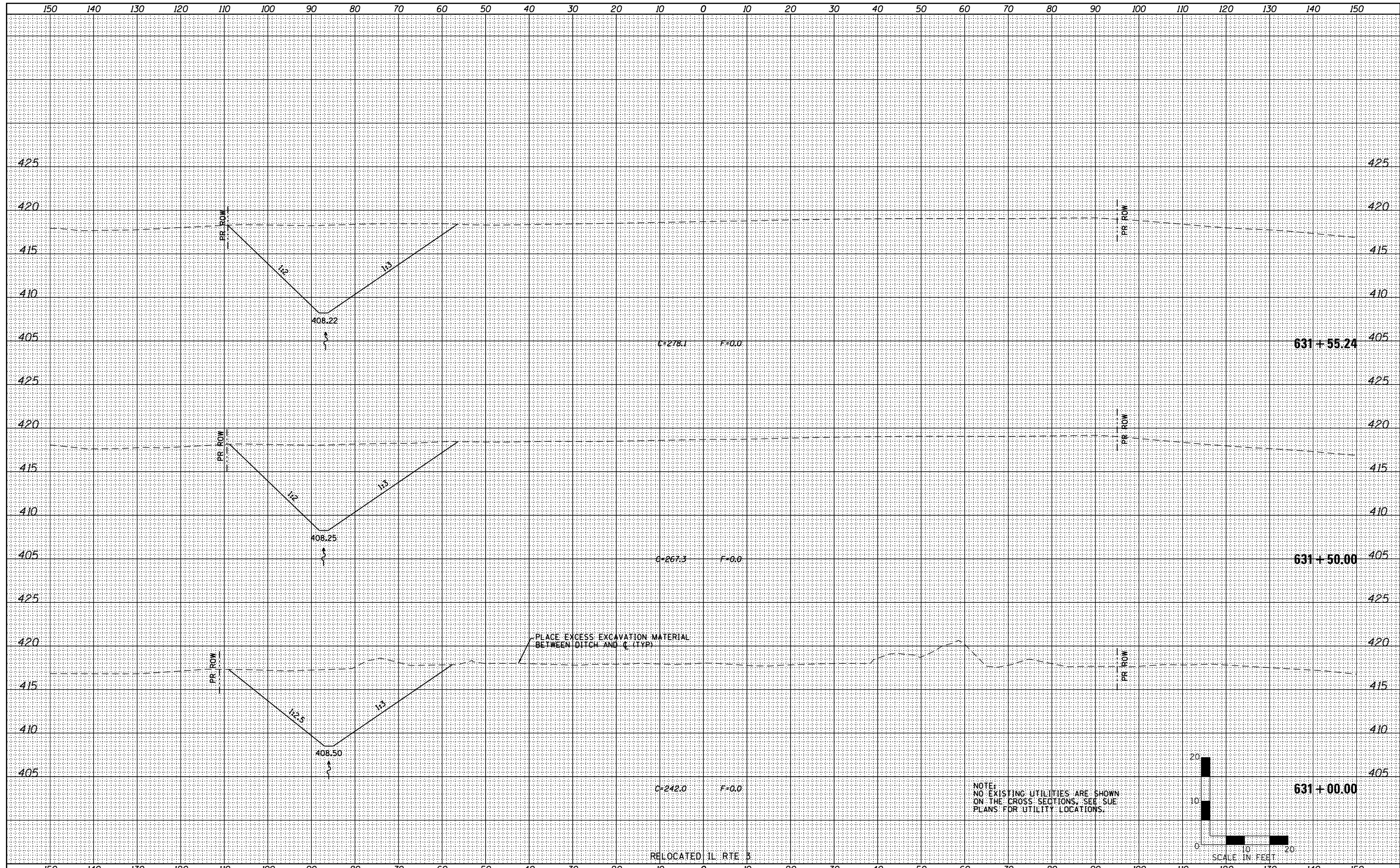
SCALE: SHEET NO. OF SHEETS STA. 629+50.00 TO STA. 630+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	88
CONTRACT NO. 76F69				

ILLINOIS FED. AID PROJECT

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

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



NOTE:
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ON THE CROSS SECTIONS. SEE SUE
PLANS FOR UTILITY LOCATIONS.

Farnsworth GROUP INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

USER NAME = jochaner	DESIGNED - JJ0	REVISED -
	DRAWN - JJ0	REVISED -
PLOT SCALE = 1/8" = 20.0000' / in.	CHECKED - PJM	REVISED -
PLOT DATE = 7/29/2012	DATE - 06/26/12	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

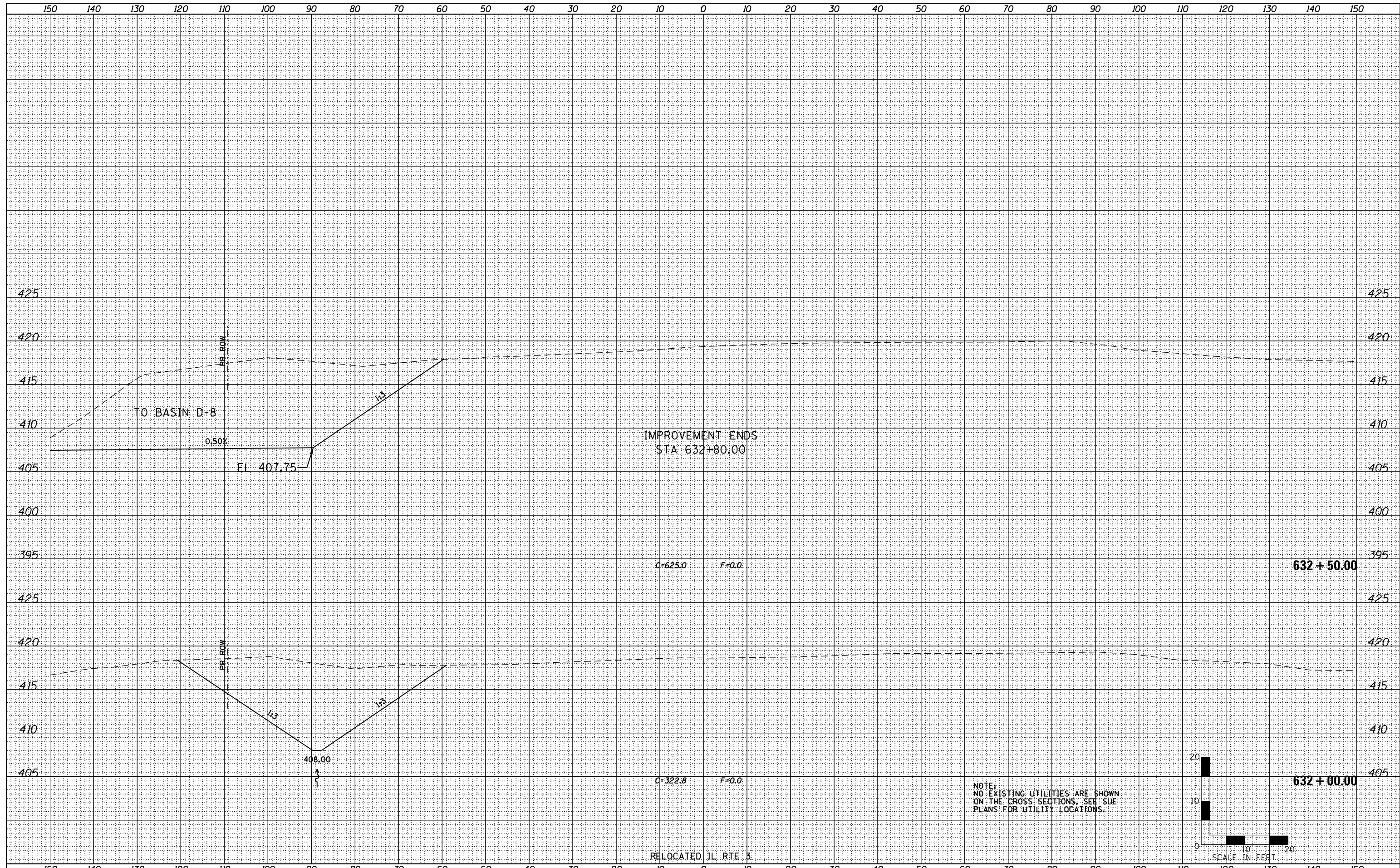
CROSS SECTIONS

SCALE:	SHEET NO.	OF SHEETS	STA. 631+00.00 TO STA. 631+55.24
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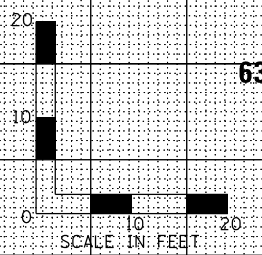
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	89
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				

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

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



NOTE:
NO EXISTING UTILITIES ARE SHOWN
ON THE CROSS SECTIONS. SEE SUE
PLANS FOR UTILITY LOCATIONS.



Farnsworth
GROUP, INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

USER NAME = jochaner	DESIGNED - JJO	REVISED -
	DRAWN - JJO	REVISED -
PLOT SCALE = 1/8" = 20.0000' / in.	CHECKED - PJM	REVISED -
PLOT DATE = 7/29/2012	DATE - 06/26/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

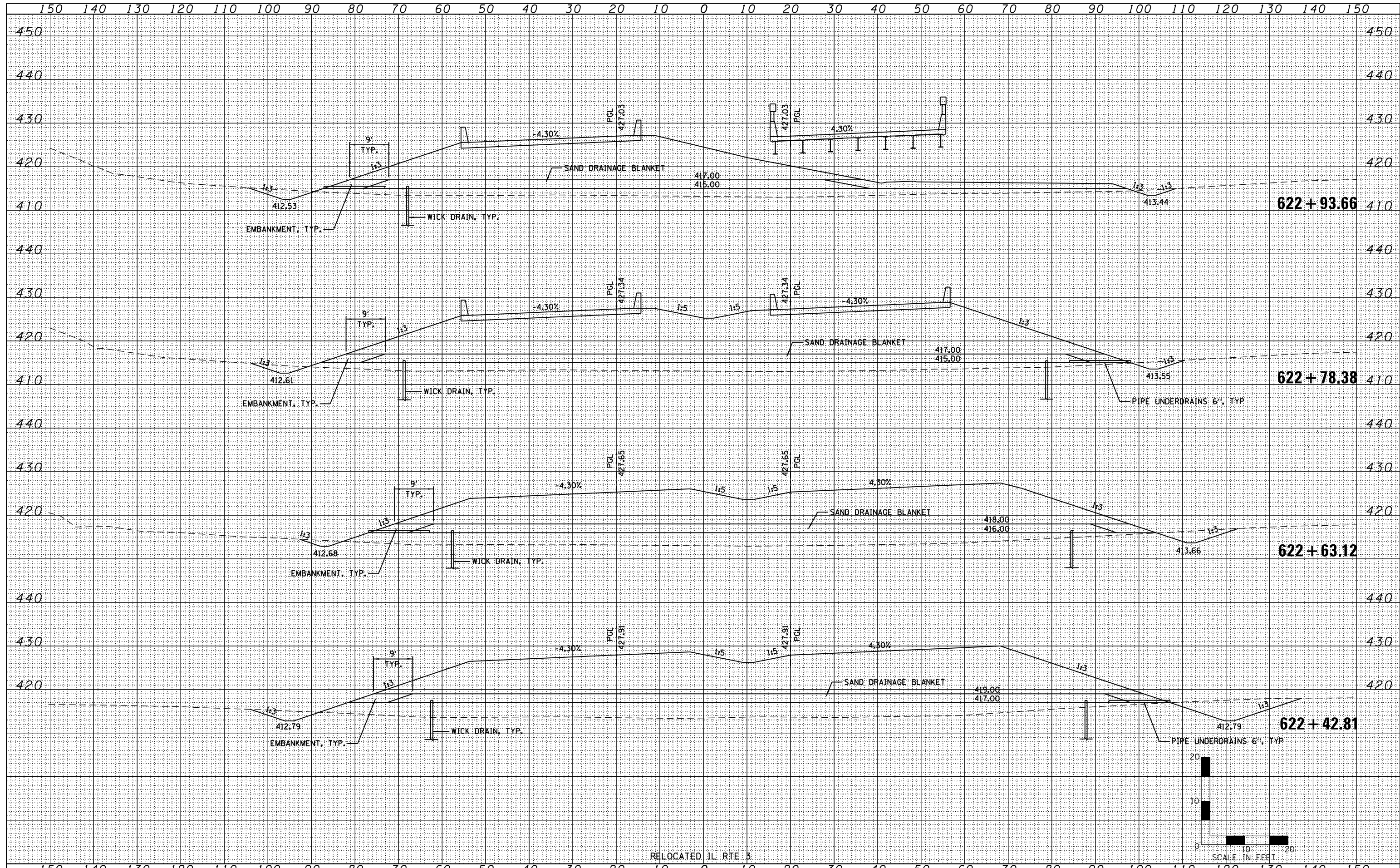
SCALE:	SHEET NO.	OF	SHEETS	STA. 632+00.00	TO STA. 632+50.00
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	90
CONTRACT NO. 76F69				

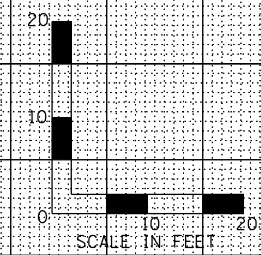
ILLINOIS FED. AID PROJECT

DATE	
BY	
FINAL SURVEY	
NO. _____	
TEMPLATES	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NO. _____	
TEMPLATES	
AREAS CHECKED	



RELOCATED IL RTE 3



Farnsworth GROUP INC.
 2709 McGraw Drive
 Bloomington, Illinois 61704
 309/663-8435, 309/663-1571 fax

USER NAME = jochaner	DESIGNED - JJO	REVISD -
	DRAWN - JJO	REVISD -
PLOT SCALE = 1/8" = 100.0000' / in.	CHECKED - PJM	REVISD -
PLOT DATE = 7/29/2012	DATE - 06/26/12	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

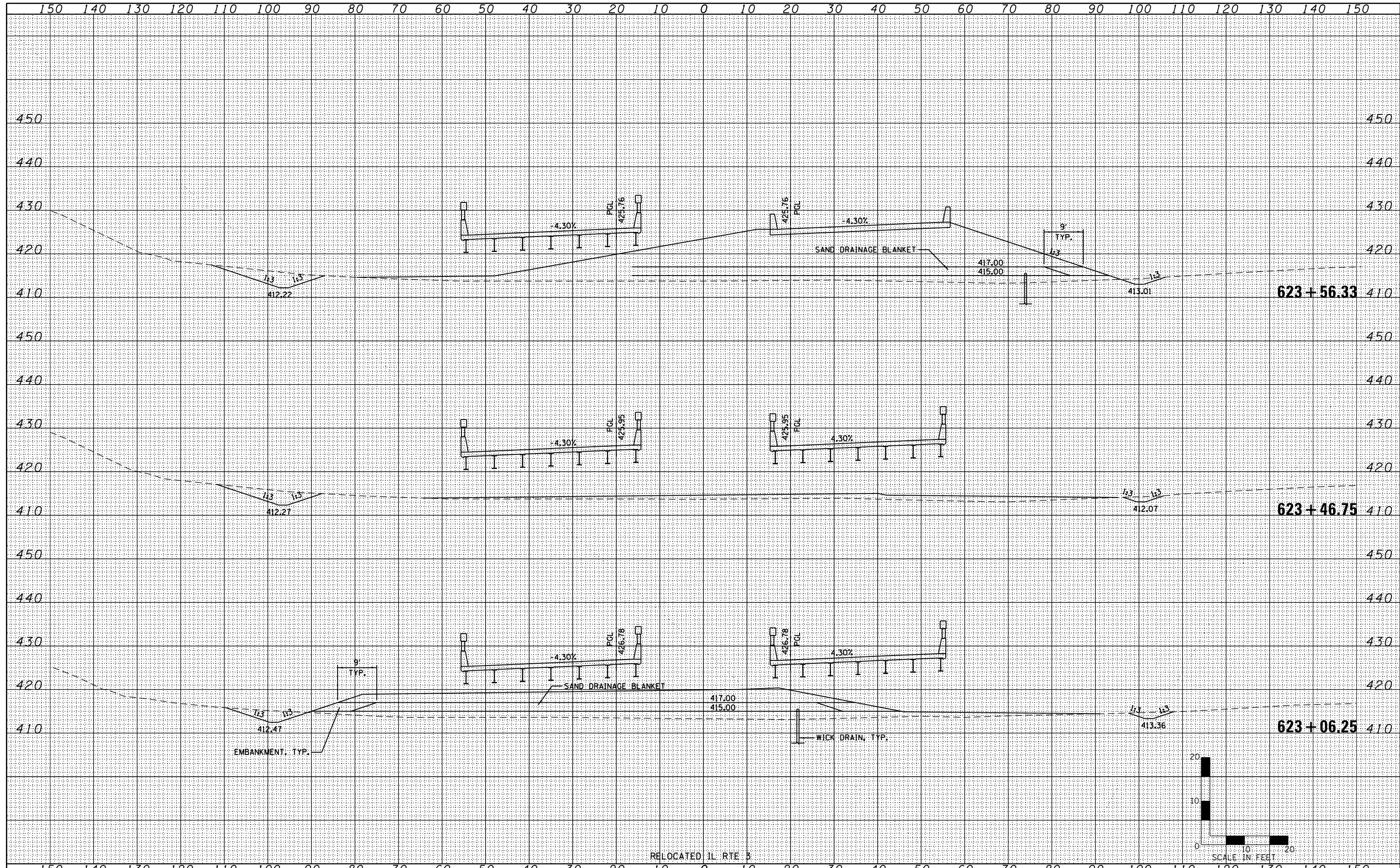
GROUND IMPROVEMENT CROSS SECTIONS

SCALE:	SHEET NO.	OF	SHEETS	STA. 622+42.81	TO STA. 622+93.66
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	92
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				

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

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



Farnsworth GROUP INC.
 2709 McGraw Drive
 Bloomington, Illinois 61704
 309/663-8435, 309/663-1571 fax

USER NAME = jochaner	DESIGNED - JJO	REVISED -
	DRAWN - JJO	REVISED -
PLOT SCALE = 1/2" = 20.0000' / in.	CHECKED - PJM	REVISED -
PLOT DATE = 7/29/2012	DATE - 06/26/12	REVISED -

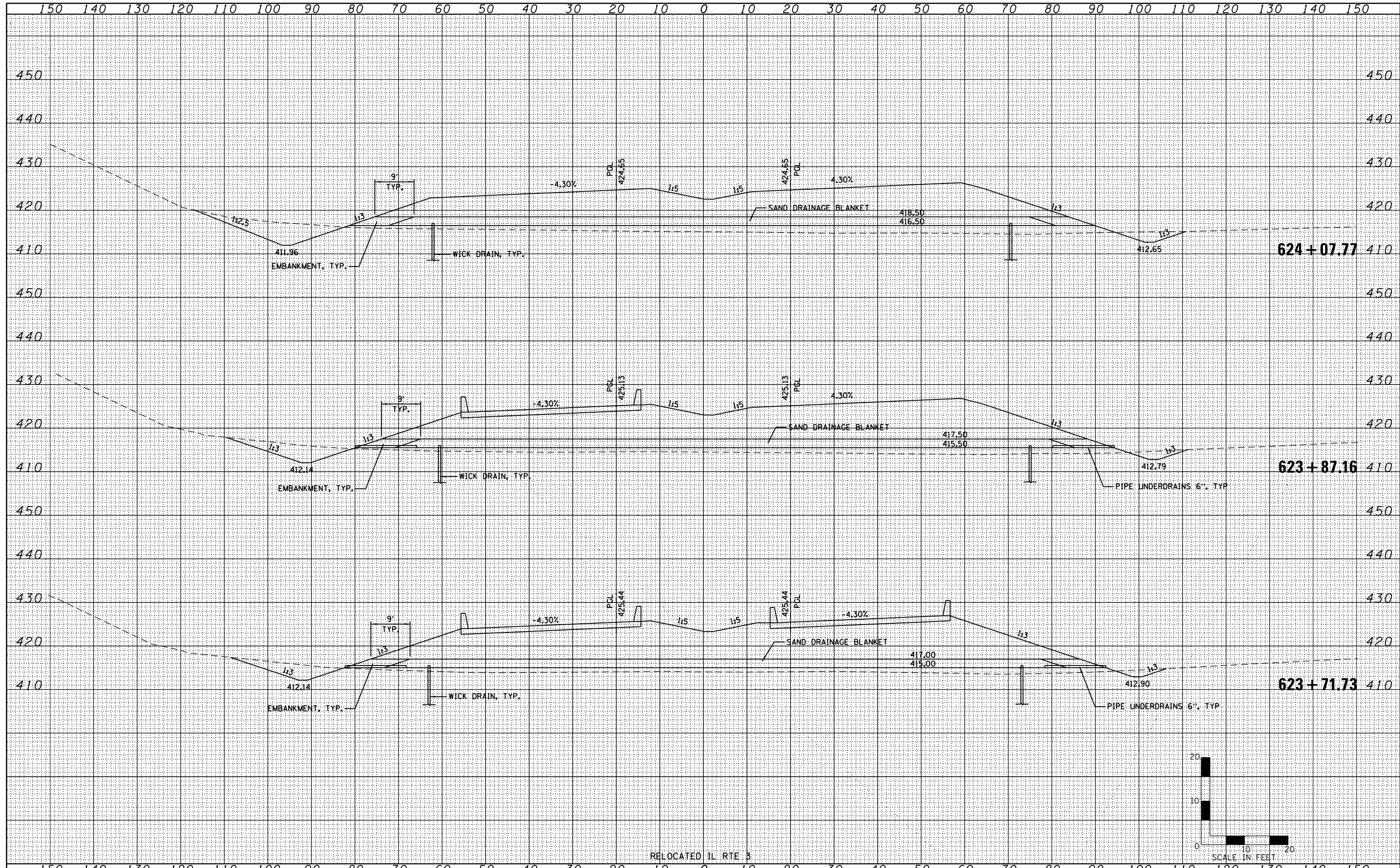
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GROUND IMPROVEMENT CROSS SECTIONS			
SCALE:	SHEET NO.	OF SHEETS	STA. 623+06.25 TO STA. 623+56.33

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	93
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				

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

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



RELOCATED IL RTE 5

Farnsworth
GROUP INC.
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1571 fax

USER NAME = jochaner	DESIGNED - JJO	REVISD -
	DRAWN - JJO	REVISD -
PLOT SCALE = 1/8" = 20.0000' / in.	CHECKED - PJM	REVISD -
PLOT DATE = 7/29/2012	DATE - 06/26/12	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GROUND IMPROVEMENT CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 623+71.73 TO STA. 624+07.77

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
788	520-1-2B	ST. CLAIR	94	94
CONTRACT NO. 76F69				
ILLINOIS FED. AID PROJECT				