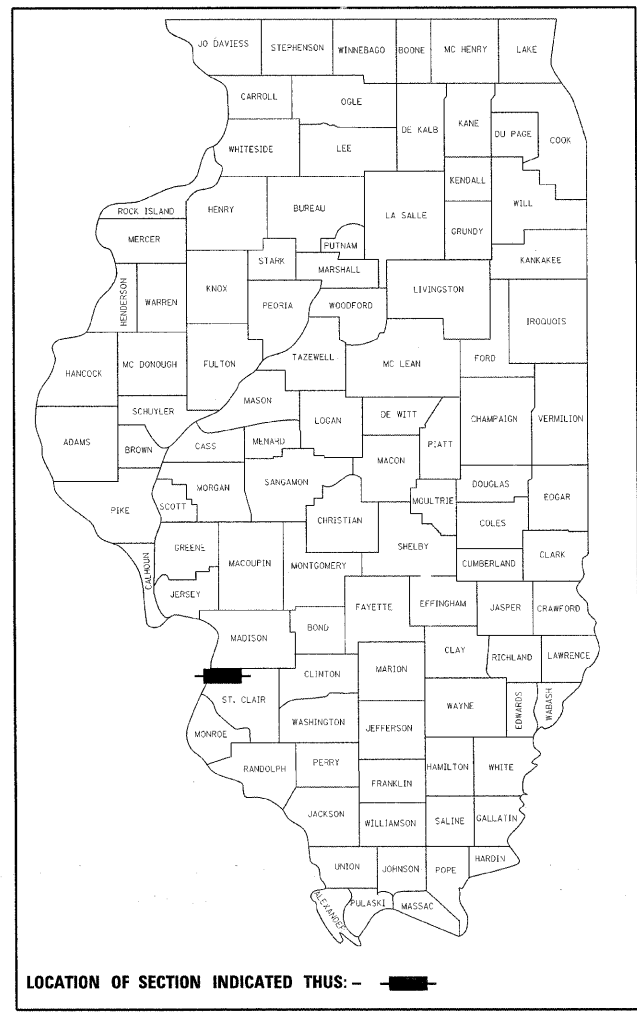


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
999	82-1B-2	ST. CLAIR	82-1	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 76D61		

* 333 total sheets

D-98-066-09



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 999
SECTION 82-1B-2
PROJECT: *PNRS-0999(004)*
ST. CLAIR COUNTY
C-98-041-10

ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
AT ST. LOUIS TO ILLINOIS ROUTE 3

LIST OF STRUCTURAL WORK
STRUCTURE NO. A6500 IL APPROACH STRUCTURE
(NEW I-70 MISSISSIPPI RIVER BRIDGE AT ST. LOUIS TO IL ROUTE 3) MISSOURI NAMING CONVENTION
STRUCTURE NO. 082-0379 EB STRUCTURE UNIT 1 & UNIT 2 ILLINOIS NAMING CONVENTION
STRUCTURE NO. 082-0382 WB STRUCTURE UNIT 1 & UNIT 2

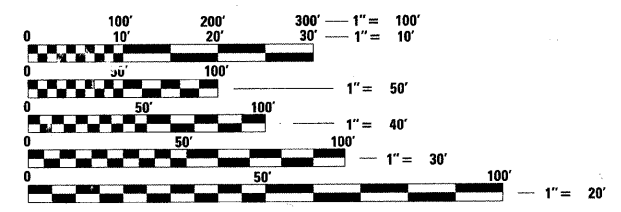
FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

INTERSTATE 70
ADT = 59,940 (2030)
DESIGN SPEED = 60 MPH
POSTED SPEED = 55 MPH

PROJECT ENGINEER : MICHAEL D. PRITCHETT (618) 346-3180
PROJECT MANAGER : JANE CHASTAIN MERCER (618) 346-3206

PROJECT LOCATED IN THE FOLLOWING ILLINOIS CITIES:
BROOKLYN, EAST ST. LOUIS, FAIRMONT CITY AND VENICE

PLANS 1" = 50'
PROFILES 1" = 5'
X-SECTIONS 1" = 10' H
1" = 5' V



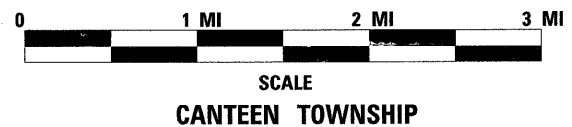
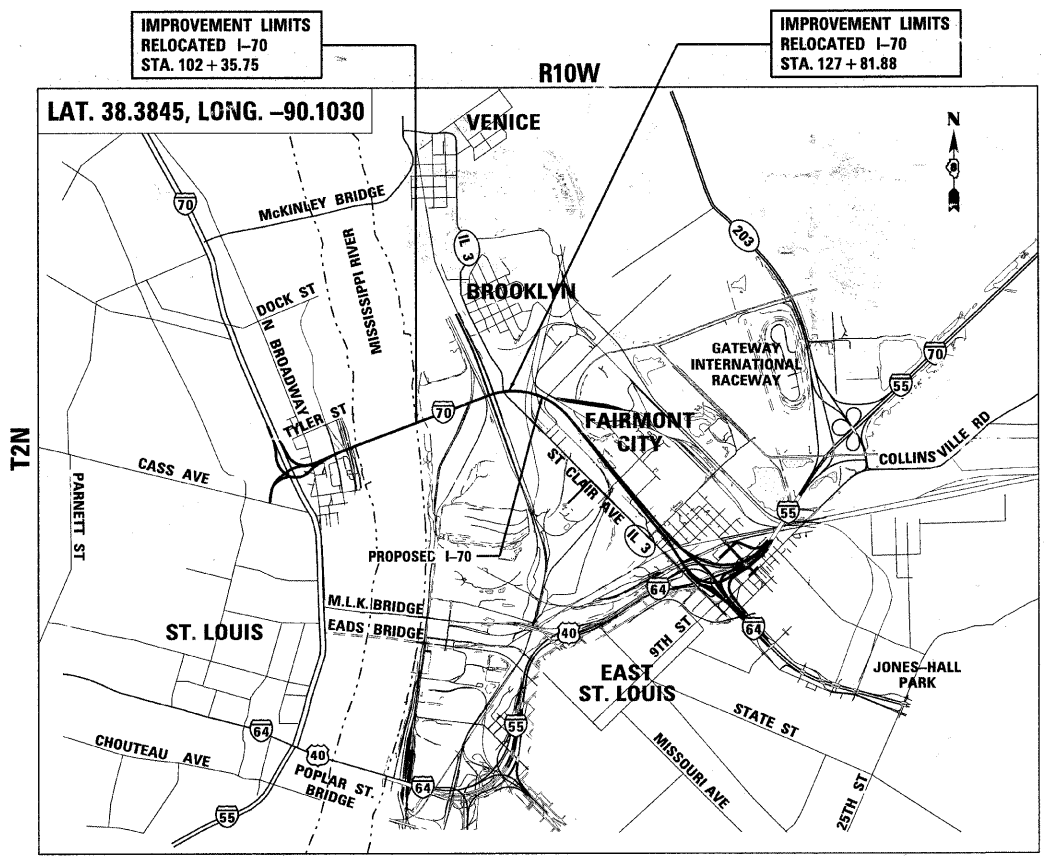
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

CONTRACT NO. 76D61

Matthew A. Miller
MATTHEW MILLER, P.E.
EXPIRES: 11-30-2011
DATE: 3-5-2010
FOR SHEETS: 13, 5-8,
12-42, 54-57 (Plans)
1-90 (Access Road Cross Sections)

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270



GROSS LENGTH OF PROJECT:
2,546.13'
NET LENGTH OF PROJECT:
2,546.13'

Richard Kerhlikar
RICHARD KERHLIKAR, P.E., S.E.
EXPIRES: 11-30-2010
DATE: 03-09-2010
FOR SHEETS: *ORANGE SHEETS 1-152*

Kevin Fuller
KEVIN FULLER, P.E.
EXPIRES: 11-30-2011
DATE: 3-9-2010
FOR SHEETS: 1-42,
54-67, 78-81 (PLANS)
1-100 (ACCESS ROAD CROSS
SECTIONS)

CMT
CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

**FINAL PLANS
MARCH 9, 2010**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED *March 9* 20 *10*
Mary C. James
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
March 19, 2010
Scott E. Stitt, P.E.
Acting ENGINEER OF DESIGN AND ENVIRONMENT
March 19, 2010
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR

USER NAME = John Keeven
 PLOT SCALE = 1.0000' / IN.
 PLOT DATE = 4/14/2010

DESIGNED - HNTB
CHECKED - CMT
DRAWN - CMT / HNTB
REVISED -
REVISED -
REVISED -
REVISED -

INDEX OF SHEETS & HIGHWAY STANDARDS
 ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

HNTB
 715 K IRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY NO. 001270

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631

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666001 -05	RIGHT OF WAY MARKERS
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701011 -02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
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701501 -05	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901 -01	TRAFFIC CONTROL DEVICES
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GENERAL NOTES

- ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE 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 & ELECTRIC
 - * AT&T ILLINOIS - COMMUNICATIONS
 - * ILLINOIS AMERICAN WATER COMPANY - WATER
 - * OWEST - COMMUNICATIONS
 - METRO EAST SANITARY DISTRICT - SANITARY SEWER
 - * 360 NETWORKS - COMMUNICATIONS
 - * MCI - COMMUNICATIONS
 - * SPRINT - COMMUNICATIONS
 - * MISSISSIPPI RIVER TRANSMISSION MRT - GAS
 - AmerenUE - TRANSMISSION
- MEMBERS OF J.U.L.I.E. (800-892-0123) AREA INDICATED BY AN *. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.
- THE "ONE CALL" SERVICES WILL NOT LOCATE BURIED RAILROAD SIGNAL AND COMMUNICATION LINES. THE CONTRACTOR SHALL CONTACT THE RAILROAD'S REPRESENTATIVE 2 DAYS IN ADVANCE OF THOSE PLACES WHERE EXCAVATION, PILE DRIVING, OR HEAVY LOADS MAY DAMAGE RAILROAD UNDERGROUND LINES ON RAILROAD PROPERTY. UPON REQUEST FROM THE CONTRACTOR OR AGENCY, RAILROAD SIGNAL FORCES WILL LOCATE AND PAINT MARK OR FLAG UNDERGROUND SIGNAL, COMMUNICATION, AND POWER LINES IN THE AREA TO BE DISTURBED FOR THE CONTRACTOR. THE CONTRACTOR SHALL AVOID EXCAVATION OR OTHER DISTURBANCE OF THESE LINES WHICH ARE CRITICAL TO THE SAFETY OF THE RAILROAD AND THE PUBLIC. IF DISTURBANCE OR EXCAVATION IS REQUIRED NEAR A BURIED RAILROAD SIGNAL, COMMUNICATION, OR POWER LINE, THE LINE SHALL BE POTHOLED MANUALLY WITH CAREFUL HAND EXCAVATION BY THE CONTRACTOR AND PROTECTED BY THE CONTRACTOR DURING THE COURSE OF THE DISTURBANCE UNDER THE SUPERVISION AND DIRECTION OF A RAILROAD SIGNAL REPRESENTATIVE.
- 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 SAND BAGS 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 WITHIN THE PROJECT LIMITS, WHETHER OR NOT THE UTILITIES ARE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING THE CONSTRUCTION SHALL BE REPLACED OR RELOCATED BY THE CONTRACTOR AT HIS/ HER OWN EXPENSE.
- CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED/REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE EAST ST. LOUIS, BROOKLYN, VENICE, AND THE FAIRMONT CITY FIRE AND POLICE DEPARTMENTS FOURTEEN (14) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION IN ORDER TO REVIEW AND COORDINATE THE CONSTRUCTION SCHEDULE. CONTACT INFORMATION:
 - EAST ST. LOUIS FIRE DEPARTMENT: (618) 482-6875.
 - EAST ST. LOUIS POLICE DEPARTMENT: CHIEF LENZIE STEWART (618) 482-6740 OR 482-6700.
 - FAIRMONT CITY: FIRE AND POLICE DEPARTMENT: SCOTT PENNY (618) 274-4504, EXT. 2.
 - BROOKLYN FIRE DEPARTMENT: (618) 482-2977
 - BROOKLYN POLICE DEPARTMENT: CHIEF DELBERT MARION (618) 874-8204
 - VENICE FIRE DEPARTMENT: CHIEF THOMAS BRENT (618) 877-4232
 - VENICE POLICE DEPARTMENT: CHIEF NORMAN T. ADAMS (618) 877-2114
- THE USE OF VIBRATORY ROLLERS SHALL BE PROHIBITED, UNLESS IT CAN BE DETERMINED THAT THE EXISTING AND PROPOSED UTILITIES WILL NOT BE AFFECTED. THE CONTRACTOR SHALL VERIFY WITH THE OWNER OF SAID UTILITIES. THE DEPTH OF THE UTILITIES AND WHETHER OR NOT THEY WILL BE ADVERSELY AFFECTED. IF IT IS DETERMINED THAT THE UTILITIES WILL BE UNAFFECTED, VIBRATORY ROLLERS MAY BE USED ON THIS PROJECT.
- THE REQUIRED EXCAVATION OF THE PROJECT WILL RESULT IN A SURPLUS OF EXCAVATED MATERIAL. THE CONTRACTOR SHALL DISPOSE OF THE SURPLUS MATERIAL AT AN OFFSITE LOCATION. THE DISPOSAL SITE APPROVAL SHALL BE DONE IN ACCORDANCE WITH ARTICLES 202.03 AND 107.22 OF THE ILLINOIS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THE COST FOR DISPOSING OF EXCESS EXCAVATED MATERIAL WILL NOT BE PAID FOR SEPERATELY BUT CONSIDERED INCIDENTAL TO EARTH EXCAVATION.
- RIGHT OF WAY MARKERS SHALL BE SET SO THE BACK OF THE POST IS TWELVE (12") INCHES INSIDE THE RIGHT OF WAY BOUNDARY. RIGHT OF WAY CORNERS ARE MARKED BY A 5/8" IRON ROD WITH IDOT ALUMINUM CAP AND SHALL NOT BE REMOVED OR DAMAGED WHEN SETTING THE RIGHT OF WAY MARKERS.
- CONTRACTOR SHALL BE ADVISED THAT MRT HAS AN EXISTING 16" HIGH PRESSURE NATURAL GAS PIPELINE UNDER PROPOSED ACCESS ROADS 1. CONTRACTOR SHALL CONTACT MRT DIRECTLY WHEN WORKING IN CLOSE PROXIMITY OF THE PIPELINE.
- THE CONTRACTOR SHALL PROVIDE PAD LOCKS FOR THE GATES ON ACCESS ROADS 1, 2, AND 3. KEYS FOR THE GATES ON ACCESS ROADS 1, 2, AND 3 WILL BE MADE AVAILABLE TO THE APPLICABLE RAILROADS AND IDOT.
- FOLLOWING IS A LIST OF ITEMS ASSOCIATED WITH THE ILLINOIS APPROACH BRIDGES WHICH ARE BY OTHERS AND INCLUDED IN OTHER CONTRACTS:
 - PAVEMENT MARKING ON THE BRIDGE DECK
 - THE DMS SIGN ON THE EASTBOUND ILLINOIS APPROACH BRIDGE
 - THE DMS SIGN ON THE WESTBOUND ILLINOIS APPROACH BRIDGE
 - THE LIGHT POLES IN UNIT 1 EASTBOUND AND UNIT 1 WESTBOUND ON THE ILLINOIS APPROACH BRIDGES
 - ELECTRICAL WIRING AND CONDUIT FOR SUPPLYING POWER TO THE UNIT 1 EASTBOUND AND UNIT 1 WESTBOUND LIGHT POLES
 - THE ELECTRIC METER, GROUND RODS, AND TRANSFORMER
 - REGULATORY SIGNS, MILE MARKERS, DELINEATORS, REFLECTORS, INFORMATIONAL SIGNS AND ALL OTHER RELATED SIGNING

GENERAL NOTES CONT.

- THE ANCHOR RODS, CONCRETE PEDESTAL, CONCRETE (MATERIAL), AND CONCRETE PEDESTAL REINFORCING BARS FOR BOTH DMS SIGNS ARE IN THIS CONTRACT FOR THE ILLINOIS APPROACH BRIDGES.
- STRAW BALES, HAY BALES, PERIMETER EROSION BARRIER, AND SILT FENCES WILL NOT BE PERMITTED FOR TEMPORARY OR PERMANENT DITCH CHECKS. DITCH CHECKS SHALL BE COMPOSED OF AGGREGATE.
- IF ANY SECTIONS OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATE BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE A COPY OF THE MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.
- WHERE TREE REMOVAL SHALL CONFLICT WITH THE EXISTING UNDERGROUND UTILITIES, THE CONTRACTOR SHALL CUT THE TREE OFF AT THE GROUND LEVEL AND GRIND OUT THE STUMP AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE TERM "SEC" REFERS TO SECTIONS IN THE SPECIAL PROVISIONS ONLY. NO SEPERATE REFERENCE IS MADE TO ANY PART OF THE MISSOURI STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION DATED JANUARY, 2004 AND REVISIONS IN EFFECT AT THE TIME OF THE LETTING.
- THE CONTRACTOR SHALL COORDINATE ANY MATERIAL OR EQUIPMENT DELIVERIES BY RIVER WITH THE U.S. COAST GUARD AND THE U.S. ARMY CORP OF ENGINEERS.
- 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 BORE. THE IDOA INFORMATION FOR ASH TREE REMOVAL CAN BE FOUND ON THE IDOA WEBSITE AT WWW.AGR.STATE.IL.US/EAB.
- THE CONTRACTOR SHOULD BE ADVISED THE RELOCATION OF AMEREN'S TRANSMISSION LINE AND THE INSTALLATION OF ILLINOIS AMERICAN WATER COMPANY'S FIRE HYDRANT HAVE NOT BEEN COMPLETED.
- THE SEED, MULCH, FERTILIZER AND AGRICULTURAL GROUND LIMESTONE QUANTITIES INCLUDED IN THE PLANS INCLUDE THE AREA WITHIN THE CONSTRUCTION LIMITS DESIGNATED ON THE PLANS. IF THE CONTRACTOR NEEDS ADDITIONAL SPACE BEYOND THE CONSTRUCTION LIMITS, ANY DISTURBED AREA WILL NEED TO BE SEEDED, MULCHED, FERTILIZED AND LIMED AT THE CONTRACTOR'S EXPENSE WITH THE SAME TYPE AND AMOUNTS OF MATERIALS UTILIZED WITHIN THE CONSTRUCTION LIMITS. IN ADDITION, AT THE CONTRACTOR'S EXPENSE THE CONTRACTOR SHALL MAKE ANY REQUIRED ADJUSTMENTS AND ADDITIONS TO THE EROSION CONTROL MEASURES AS A RESULT OF THE NEED FOR ADDITIONAL SPACE BEYOND THE CONSTRUCTION LIMITS DESIGNATED IN THE PLANS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR OBTAINING ANY NECESSARY AGREEMENTS WITH PROPERTY OWNERS IF THE ADDITIONAL SPACE NEEDED BY THE CONTRACTOR IS OUTSIDE THE TEMPORARY EASEMENT. ANY COSTS ASSOCIATED WITH OBTAINING AND RESTORING THE ADDITIONAL SPACE IS AT THE CONTRACTOR'S EXPENSE.

COMMITMENTS

- IF ANY WATER WELLS ARE ENCOUNTERED DURING CONSTRUCTION WHICH REQUIRE SEALING, THEY SHALL BE SEALED ACCORDING TO IEPA TO PREVENT GROUNDWATER POLLUTION FROM CONSTRUCTION AND FROM FUTURE ROADWAY MAINTENANCE. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS. THE FORM FOR SEALING WATER WELLS IS INCLUDED IN THE PROJECT SPECIAL PROVISIONS.
- TREE REMOVALS SHALL BE MITIGATED IN A FUTURE CONTRACT AS PART OF THE IDOT TREE REPLACEMENT PROGRAM UNDER DEPARTMENT POLICY D & E-1B.
- THE CONTRACTOR SHALL TAKE ALL MEASURES TO AVOID OR MINIMIZE IMPACTS TO THE WETLANDS. THERE HAVE BEEN 3.16 ACRES OF WETLAND IMPACTS FOR THIS PROJECT. 2.75 ACRES WERE MITIGATED AT A 4:1 RATIO FOR WETLAND SITE 3. 0.41 ACRES WERE MITIGATED AT A 2:1 RATIO FOR WETLAND SITE 5. THEREFORE, 11.82 ACRES HAVE BEEN MITIGATED AT THE FAIRMONT CITY WETLAND MITIGATION SITE. IF ADDITIONAL MITIGATION IS NEEDED FOR THIS PROJECT, THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND THE U.S. ARMY CORPS OF ENGINEERS SHALL NEED TO BE NOTIFIED BY THE CONTRACTOR. ANY COST ASSOCIATED WITH THE COST OF ADDITIONAL MITIGATION WILL BE AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL NOTIFY THE ST. CLAIR COUNTY TRANSIT DISTRICT (SCCTD) AT LEAST TWO WEEKS PRIOR TO ANY ROAD CLOSURES. THE CONTRACTOR SHALL PROVIDE DETAILED DETOUR INFORMATION TO THE SCCTD. THE SCCTD CONTACT INFORMATION IS:
 - WILLIAM GROGAN, EXECUTIVE DIRECTOR
 - ST. CLAIR COUNTY TRANSIT DISTRICT
 - 1004 SOUTH LINCOLN AVENUE
 - O'FALLON, IL 62269
 - (618) 628-8090
 - bgrogan@scctd.org

CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 1:0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

GENERAL NOTES & COMMITMENTS	ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
--	---

HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY NO. 001270

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631

SUMMARY OF QUANTITIES (ROADWAY)				
ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				X271-2A
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	54	54
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	87	87
20100500	TREE REMOVAL, ACRES	ACRE	2.8	2.8
20200100	EARTH EXCAVATION	CU YD	6133	6133
20600110	GRANULAR EMBANKMENT, SPECIAL	TON	797	797
20800150	TRENCH BACKFILL	CU YD	27	27
25000312	SEEDING, CLASS 4A	ACRE	20.2	20.2
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1818	1818
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	1818	1818
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	1818	1818
25000700	AGRICULTURAL GROUND LIMESTONE	TON	40.4	40.4
25100115	MULCH, METHOD 2	ACRE	40.4	40.4
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	2020	2020
28000315	AGGREGATE DITCH CHECKS	TON	58	58
28000400	PERIMETER EROSION BARRIER	FOOT	36906	36906
28100112	STONE RIPRAP, CLASS A6 (SPECIAL)	SQ YD	154	154
30201500	LIME	TON	50	50
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	11000	11000
40800050	INCIDENTAL HOT - MIX ASPHALT SURFACING	TON	22	22
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	32	32
50800105	REINFORCEMENT BARS	POUND	140	140
54248510	CONCRETE COLLAR	CU YD	0.4	0.4
542A1057	PIPE CULVERTS, CLASS A, TYPE 2 12"	FOOT	208	208
66400565	CHAIN LINK FENCE, 7' (SPECIAL)	FOOT	408	408
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	19	19
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	19,077	19,077
* 66900210	HAZARDOUS WASTE DISPOSAL	CU YD	537	537
* 66900450	SPECIAL WASTE PLANS AND REPORT	L SUM	1	1
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	9	9
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	48	48
67000600	ENGINEER'S FIELD LABORATORY	CAL MO	48	48
67100100	MOBILIZATION	L SUM	1	1
70101800	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	200	200
X0325445	RIGHT-OF-WAY AND PROPERTY CORNERS	EACH	5	5
X2010505	CLEARING, SPECIAL	L SUM	1	1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0015500	DEBRIS REMOVAL	L SUM	1	1
Z0022800	FENCE REMOVAL	FOOT	583	583

* DENOTES SPECIALTY ITEMS

© Y080

SUMMARY OF QUANTITIES (ROADWAY) (CONTINUED)				
ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				X271-2A
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
Z0064505	SECTION CORNER MARKERS	EACH	5	5
Z0076600	TRAINEES	HOUR	3,500	3,500
X0326890	ROCK BASE, 24"	SQ YD	26030	26030
X0326891	TEMPORARY ACCESS ROAD (SPECIAL)	SQ YD	4241	4241
X0326892	TEMPORARY ACCESS ROAD (SPECIAL), MAINTENANCE	FOOT	970000	970000
X0326893	FULL DEPTH RUBBER CROSSING	EACH	2	2
X0326894	TUBULAR GATES, 4.5' x 16' SINGLE	EACH	3	3
X0326895	FENCE CORNER POST	EACH	4	4
X0326896	IL ROUTE 3 WEEKEND CLOSURE, SPECIAL	L SUM	1	1
X0326897	TRANSMISSION TOWER PROTECTION	L SUM	1	1


SUMMARY OF QUANTITIES (BRIDGE)				
ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				X271-2A
MD000010	CLASS I EXCAVATION	CU YD	105	105
MD000240	TEMPORARY SHORING	L SUM	1	1
MD000020	DRILLED SHAFTS (6 FT. 6 IN. DIA.)	FOOT	4694	4694
MD000030	ROCK SOCKETS (6 FT. 0 IN. DIA.)	FOOT	828	828
MD000040	SUPPLEMENTARY TELEVISION CAMERA INSPECTION	EACH	20	20
MD000050	FOUNDATION INSPECTION HOLES	FOOT	1228	1228
MD000060	CONCRETE CORING	FOOT	556	556
MD000070	SONIC LOGGING TESTING	EACH	40	40
MD000080	CLASS B CONCRETE (SUBSTRUCTURE)	CU YD	4049.5	4049.5
MD000090	SLAB ON STEEL	SQ YD	24113	24113
MD000100	BARRIER CURB (TYPE D)	FOOT	10169	10169
MD000110	REINFORCING STEEL (BRIDGES)	POUND	3,359,440	3,359,440
MD000120	MECHANICAL SPLICE BAR	EACH	5200	5200
MD000250	STANDPIPE	L SUM	1	1
MD000130	REINFORCING STEEL (EPOXY COATED)	POUND	177290	177290
MD000140	PROTECTIVE COATING - CONCRETE BENTS AND PIERS (EPOXY)	L SUM	1	1
MD000150	TEMPORARY COATING - CONCRETE BENTS AND PIERS (WEATHERING STEEL)	L SUM	1	1
MD000160	FABRICATED LOW ALLOY STEEL (MISC)	POUND	595560	595560
MD000170	FABRICATED LOW ALLOY STEEL (PL GIRDER) A709 50W	POUND	9099470	9099470
MD000180	FABRICATED LOW ALLOY STEEL (PL GIRDER) A709 70W	POUND	2116700	2116700
MD000200	DRAINAGE SYSTEM (ON STRUCTURE)	L SUM	1	1
MD000210	POT BEARING	EACH	96	96
MD000220	MODULAR EXPANSION JOINT	FOOT	80	80

CONTRACT NO. 76D61


F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = Brian Eads	
PLOT SCALE = 1.0000' / IN.	
PLOT DATE = 3/9/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

SUMMARY OF QUANTITIES
 ILLINOIS APPROACH STRUCTURE
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 MISSOURI HIGHWAYS
 AND TRANSPORTATION COMMISSION



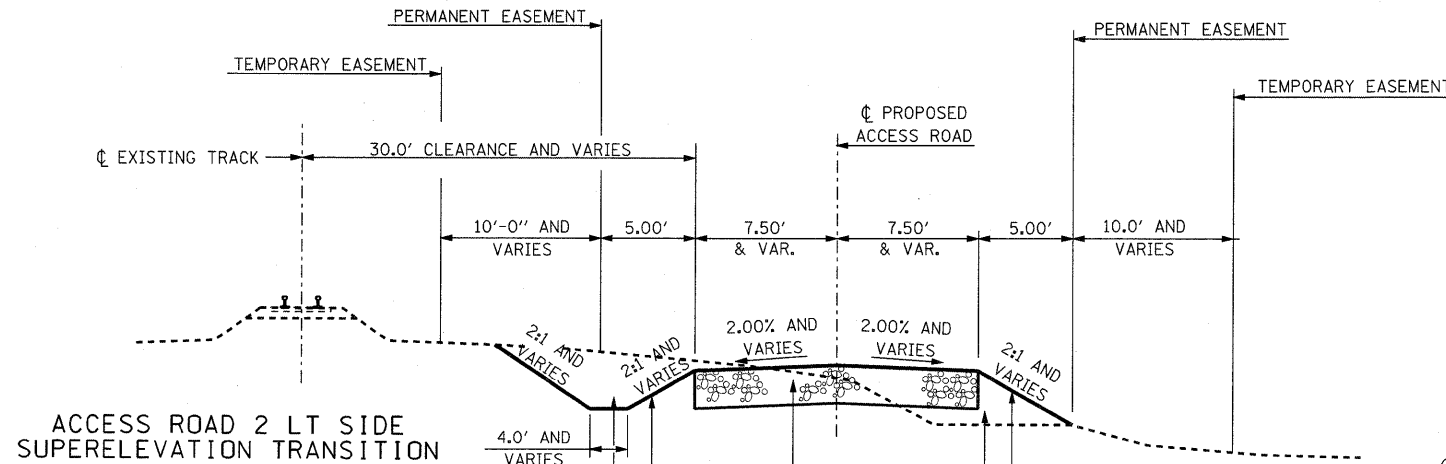
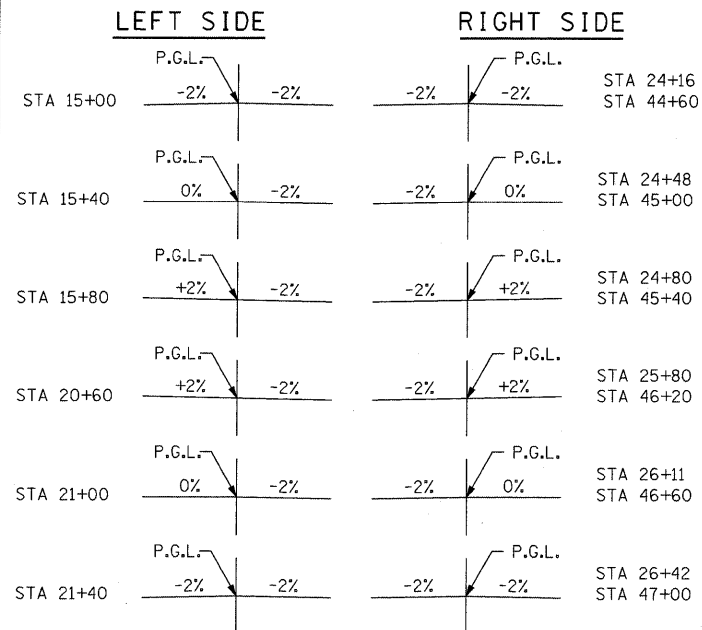
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270



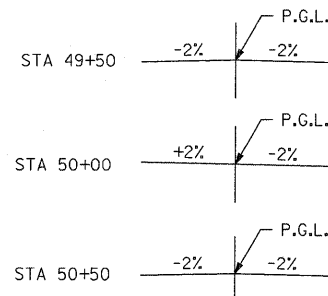
CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50.00' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

ACCESS ROAD 1 SUPERELEVATION TRANSITION



ACCESS ROAD 2 LT SIDE SUPERELEVATION TRANSITION



TYPICAL SECTION PROPOSED ACCESS ROADS

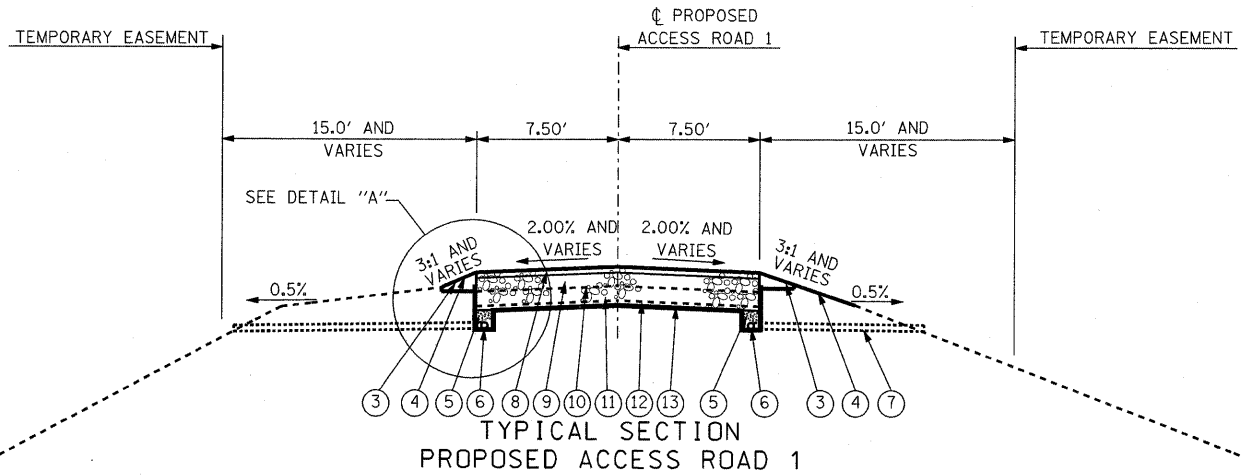
ACCESS ROAD 1 STA 10+44.97 TO STA 22+00.00
 ACCESS ROAD 1 STA 46+40.00 TO STA 71+15.20
 ACCESS ROAD 2 STA 10+79.59 TO STA 52+28.06
 ACCESS ROAD 3 STA 10+12.83 TO STA 79+99.06

NOTES:
 SEE PROPOSED ACCESS ROAD CROSS SECTIONS FOR ROADWAY CROSS SLOPES AND SIDE SLOPES.
 SEE ROCK BASE, 24" SPECIAL PROVISION FOR ADDITIONAL REQUIREMENTS.

- ① ROCK BASE, 24"
- ② EXCAVATION PAID AS EARTH EXCAVATION
- ③ EMBANKMENT INCLUDED IN EARTH EXCAVATION PAYMENT
- ④ SEEDING CLASS 4A
- * ⑤ CA-7 AGGREGATE
- * ⑥ PIPE UNDERDRAINS 4" PERFORATED PVC PIPE
- * ⑦ PIPE UNDERDRAIN OUTLET 4" PVC PIPE
- * ⑧ 2" CA-6
- * ⑨ 10" CA-7
- * ⑩ STANDARD DUTY GEOGRID
- * ⑪ 12" CA-5
- * ⑫ HEAVY DUTY GEOGRID
- * ⑬ 10 OUNCE NONWOVEN GEOTEXTILE ON A LAYER OF 60 MIL HEAVY DUTY, TEXTURED (BOTH SIDES) GEOMEMBRANE

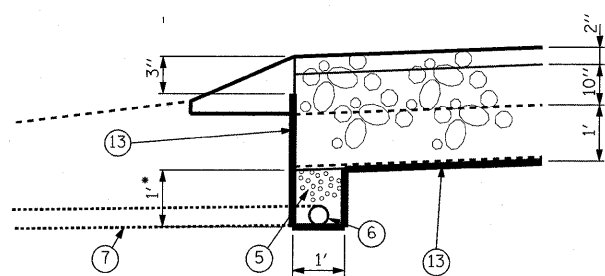
* INCLUDED IN TEMPORARY ACCESS ROAD (SPECIAL). SEE TEMPORARY ACCESS ROAD (SPECIAL) SPECIAL PROVISION FOR ADDITIONAL REQUIREMENTS.

NOTES:
 ACCESS ROAD 1 STA. 29+00 TO STA. 34+00: 9.50' WIDE LEFT, 5.50' WIDE RIGHT. TAPERED BETWEEN STA. 28+00 TO STA. 29+00 AND BETWEEN STA. 34+00 TO STA. 35+00.
 ACCESS ROAD 1 STA. 37+75 TO STA 39+25: 9' ADDITIONAL WIDENING TAPERED BETWEEN STA. 37+00 TO STA. 37+75 AND BETWEEN STA. 39+25 TO STA. 40+00.



TYPICAL SECTION PROPOSED ACCESS ROAD 1

ACCESS ROAD 1 STA 22+00.00 TO STA. 42+85.00
 ACCESS ROAD 1 STA 42+85.00 TO STA. 43+15.00 (BY OTHERS)
 ACCESS ROAD 1 STA 43+15.00 TO STA. 46+40.00
 PIPE UNDERDRAIN LIMITS STA 21+80.00 TO STA 45+50.00 LT AND RT
 PIPE UNDERDRAIN OUTLET 4" PVC PIPE LOCATIONS:
 STA 21+40.00 (CROSSINGS, 2 EACH) •
 STA 21+80.00 LT & RT
 STA 24+20.00 (CROSSINGS, 2 EACH) •
 STA 28+60.00 LT
 STA 31+00.00 LT
 STA 33+50.00 LT
 STA 36+00.00 LT
 STA 39+00.00 RT
 STA 39+25.00 LT
 STA 41+00.00 LT & RT
 STA 42+85.00 LT & RT
 STA 45+50.00 LT & RT



DETAIL "A"
 DETAIL TYPICAL BOTH SIDES OF ACCESS ROAD 1

* UNDERDRAIN DEPTH VARIES STA 22+00.00 TO STA 24+20.00 ACCESS ROAD 1. SEE CROSS SECTIONS FOR UNDERDRAIN ELEVATION

TYPICAL SECTION
 ACCESS ROAD & MISC. DETAILS
 ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

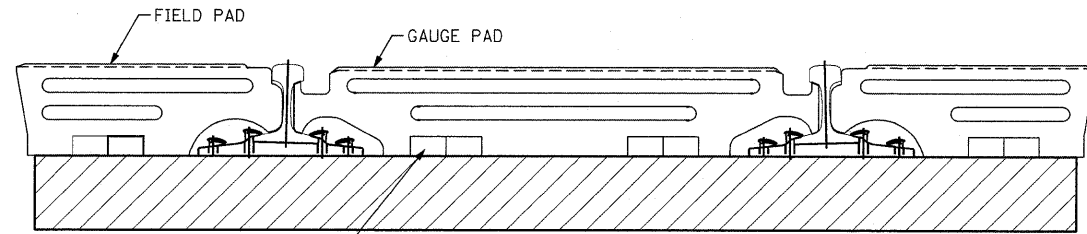
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY NO. 001270

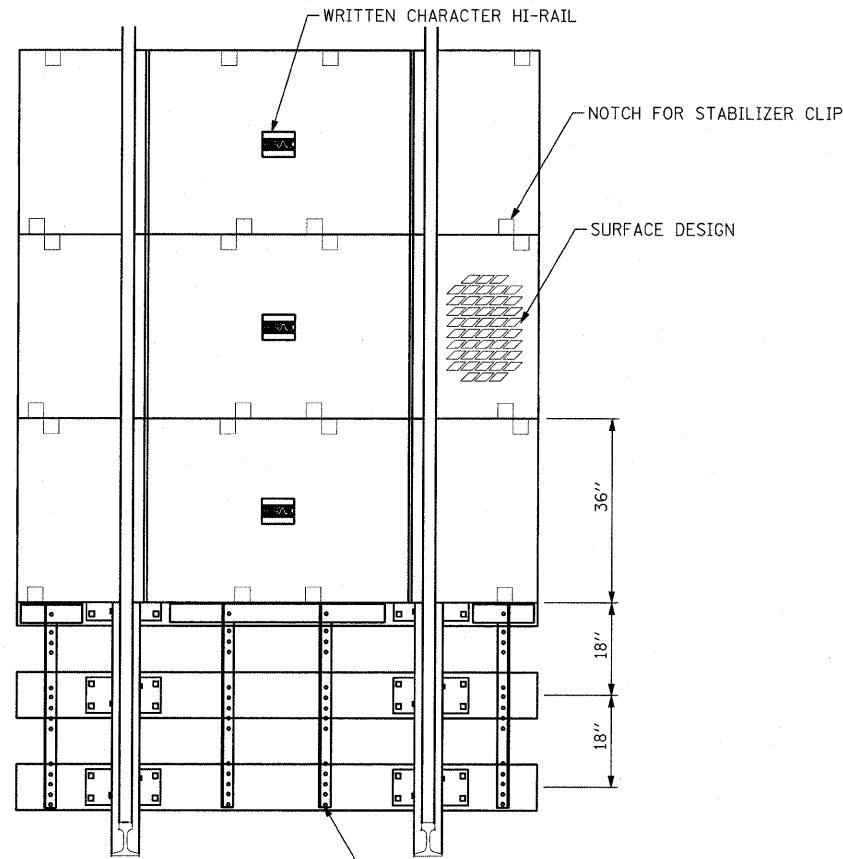
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631

SHEET 1 OF 3
TYPICAL SECTIONS
 ACCESS ROADS
 1, 2, AND 3

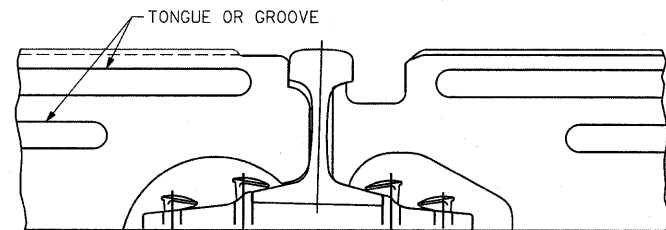
SYSTEM WOOD TIES NO FB.DGN



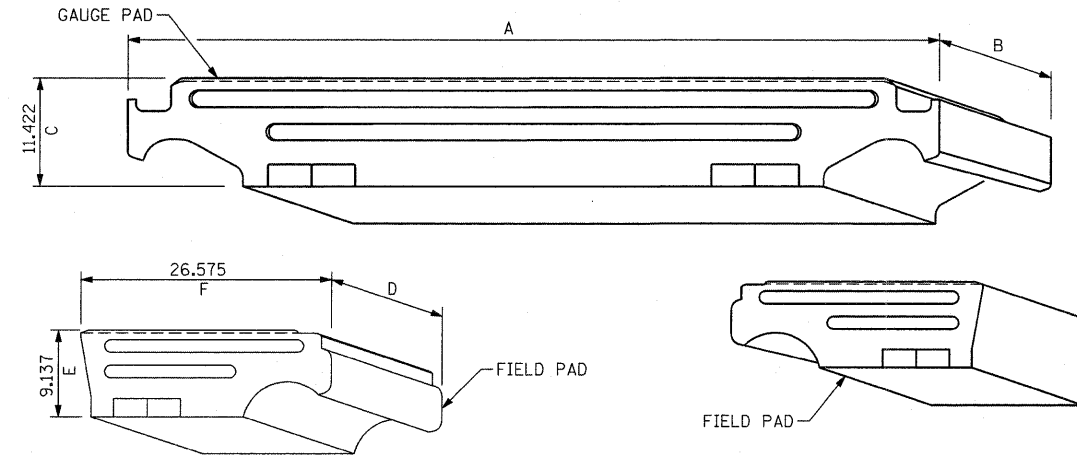
CROSS SECTIONAL VIEW



VIEW FROM THE TOP



SYSTEM WOOD TIES NO FB 2.DGN



Weight of Rail	Weight (lbs)			Dimensions (in.)								
	Tie Length			Gauge Pad	Tie Length			E	D	A	C	B
	8'6"	9'0"	10'		8'6"	9'0"	10'					
100	204			529	22 1/2			7	36	58 1/4	7	36
112-122	225	270	311	586	22 1/2	25 1/4	30	7 3/4	36	58 1/4	7 3/4	36
131-140	238	280	326	630	22 1/2	25 1/4	30	8 3/16	36	58 1/4	8 3/16	36

NOTES:

- TIES ARE TO BE SPACED 18" ON CENTER THROUGH THE CROSSING
- EACH 3 FT. SECTION CONSISTS OF 1 GAUGE PAD AND 2 FIELD PADS
- RAIL THROUGH CROSSING TO BE NEW 136#, 39 FT. MINIMUM LENGTH
- TIMBER CROSS TIES TO BE NEW 10'-0" WITH 4 ADDITIONAL TIES EACH SIDE OF RUBBER CROSSING
- ALL MATERIALS INCLUDING PLATES, SPIKES AND BOLTS ARE TO BE NEW
- MINIMUM CROSSING LENGTH SHALL BE 20'
- ALL APPROACHES SHALL BE CONSTRUCTED WITH ASPHALT
- MINIMUM ASPHALT APPROACH LENGTH SHALL BE 6' ON BOTH SIDES OF CROSSING. MINIMUM DEPTH OF ASPHALT ON APPROACHES SHALL BE 7"
- CROSSING AT STA. 12+28.00 ON ACCESS ROAD 2 SHALL BE CONSTRUCTED A MINIMUM OF 51' WIDE. THE LAYOUT OF THE CROSSING SHALL BE APPROVED BY TRRA. TRRA'S ENGINEER MAY STAGGER THE CROSSING PANELS TO FIT THE ACCESS ROAD CURVE.
- CROSSING AT STA. 51+86.00 ON ACCESS ROAD 2 SHALL BE CONSTRUCTED 30' WIDE AND CENTERED ON THE PROPOSED ACCESS ROAD
- HIRAIL CORPORATION FULL DEPTH RUBBER SYSTEM IS REQUIRED. SEE THE FULL DEPTH RUBBER SYSTEM CROSSING SPECIAL PROVISION

CROSSING LOCATIONS

ACCESS ROAD 2 STA 12+28.00
ACCESS ROAD 2 STA 51+86.00

HiRAIL
HiRAIL Corporation

Full Depth Rubber
System Drawing, Wood Ties
Drwg: No FB

HiRAIL
HiRAIL Corporation

Full Depth Rubber
System Drawing, Wood Ties
Drwg: No FB 2

SHEET 2 OF 3

TYPICAL SECTIONS

FULL DEPTH RUBBER
CROSSING DETAILS

CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 10,000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

TYPICAL SECTION
FULL DEPTH RUBBER
CROSSING DETAILS
ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CMT
CRANFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

SHEET 6 OF 81

CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keaven	
PLOT SCALE = 1:0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

TYPICAL SECTION ACCESS ROAD 3 CROSSING DETAILS	ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
	STA. 47 + 36.90 ACCESS ROAD 3

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
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CRANFORD, MURPHY & TILLY, INC.
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SPRINGFIELD, IL 62702
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ENGINEERING CORPORATION - 000631

SHEET 7 OF 81

RUBBER FLANGE WAY NOTES

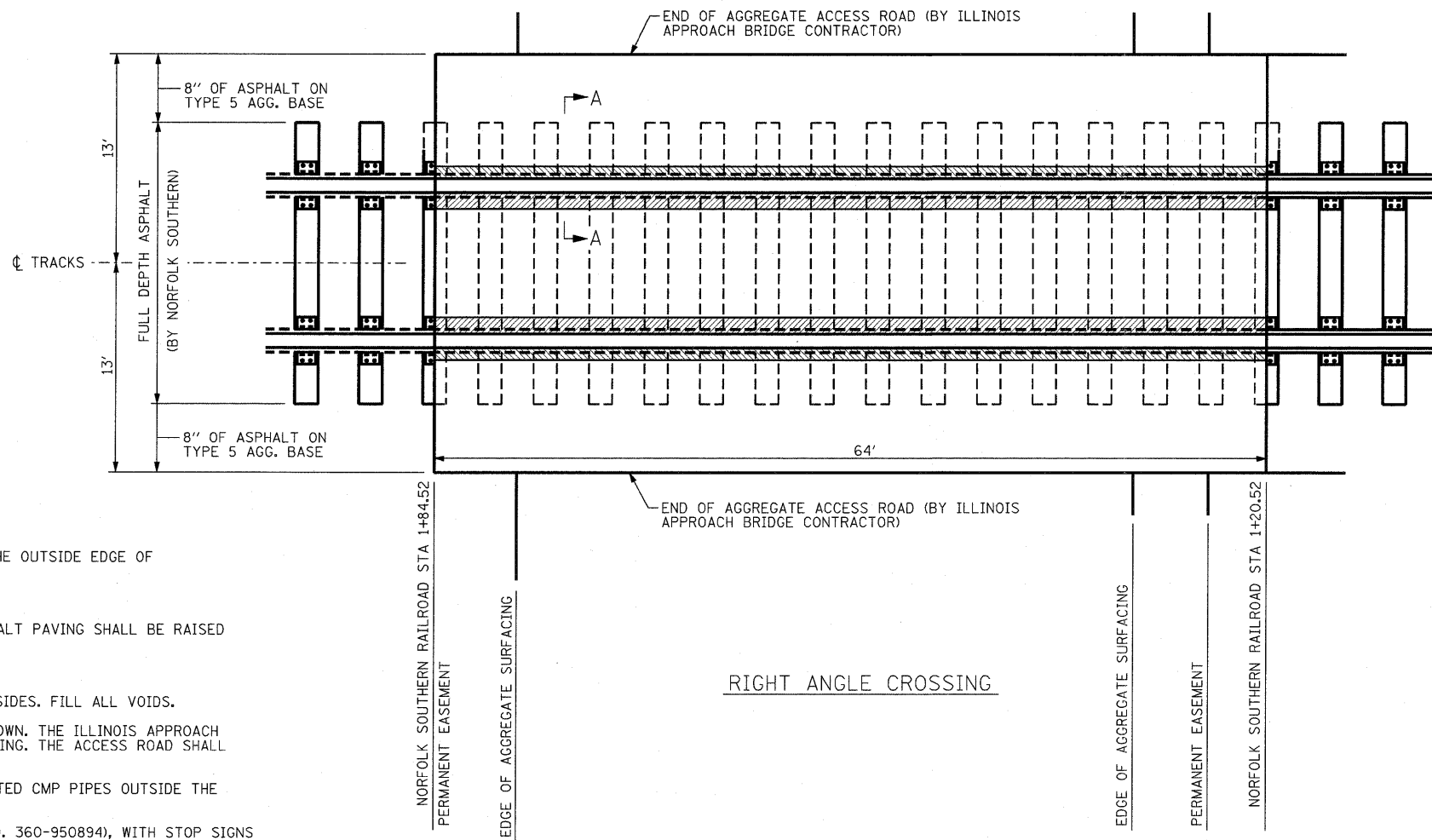
- CLEAN BASE, WEB AND UNDER THE HEAD OF THE RAIL
- FASTEN LENGTHS TOGETHER WITH END CLIPS AND LAY RUBBER AGAINST THE RAIL
- INSTALL CLIPS UNDER BOTH RAILS BETWEEN EVERY TIE IN THE CROSSING
- RUBBER FLANGE WAY FOR 100 LB. RAIL 270 995291
- RUBBER FLANGEWAY FOR 110RE THROUGH 115RE RAIL 270 991789
- RUBBER FLANGEWAY FOR 132RE THROUGH 141AB RAIL 270 008791
- (INCLUDES ALL HARDWARE AND IS FURNISHED IN 8 FT. TRACK SECTIONS.)

TIE PLATE NOTES

- WORN PATCHES MUST BE REPLACED WHEN CROSSING IS RENEWED.
- STANDARD TIE PLATES TO BE USED FOR 6" BASE RAIL ARE 7 3/4" x 14 3/4".

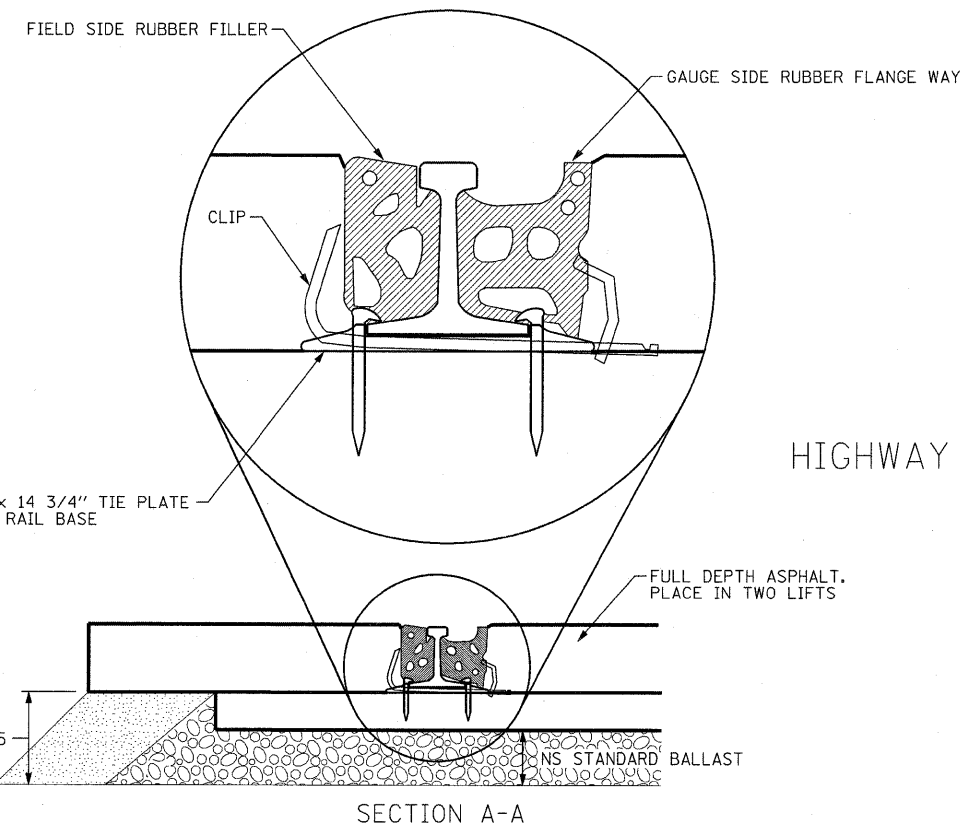
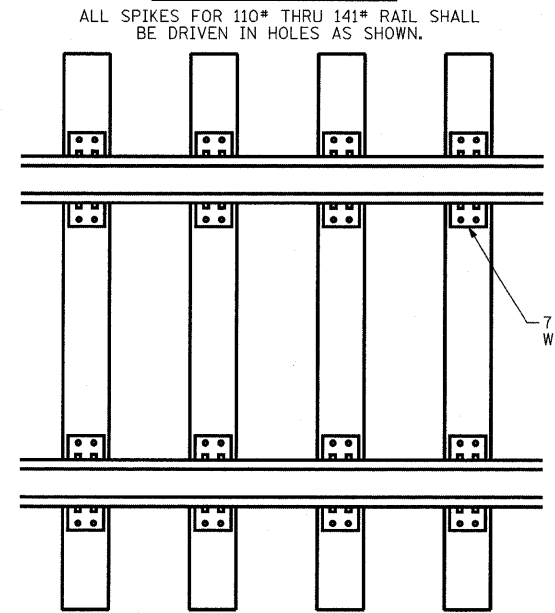
GENERAL NOTES

- WHERE HIGHWAY OR STREET HAVE SEPERATE SIDEWALKS, THE ENTIRE WIDTH OF CROSSING TO THE OUTSIDE EDGE OF SIDEWALK, WILL BE PAVED, WHERE PRACTICAL.
- WHEN NECESSARY PROVIDE DRAINAGE BETWEEN TRACKS.
- TO ALLOW FOR COMPACTION OF PAVING UNDER VEHICULAR TRAFFIC, THE SURFACE OF THE ASPHALT PAVING SHALL BE RAISED 3/8" ABOVE THE TOP OF THE RUBBER FLANGE WAYS FOR THE WIDTH OF THE ROADWAY.
- IN FULL DEPTH CROSSINGS, LAY ASPHALT IN TWO LIFTS.
- JAM STONE OR ASPHALT UNDER RUBBER FLANGE WAY BETWEEN TIES - BOTH FIELD AND GAUGE SIDES. FILL ALL VOIDS.
- NORFOLK SOUTHERN CREWS WILL INSTALL RAILROAD CROSSING AND ASPHALT TO THE LIMITS SHOWN. THE ILLINOIS APPROACH BRIDGE CONTRACTOR SHALL CONSTRUCT THE AGGREGATE ACCESS ROADS TO THE ASPHALT CROSSING. THE ACCESS ROAD SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE CROSSING AND ACCESS ROAD.
- NORFOLK SOUTHERN RAILROAD TRACK FORCES WILL INSTALL 2-4" DIAMETER, 64' LONG PERFORATED CMP PIPES OUTSIDE THE BALLAST TOE ON EITHER SIDE AND PARALLEL TO THE CROSSING AS AN UNDERDRAIN.
- NORFOLK SOUTHERN RAILROAD TRACK FORCES WILL INSTALL A PRIVATE CROSSING (NS STOCK NO. 360-950894), WITH STOP SIGNS (NS STOCK NO. 360-958452) ON T-POSTS (NS STOCK NO. 135-486109) PLACED ON EITHER SIDE OF THE CROSSING.



RIGHT ANGLE CROSSING

SPIKING PATTERN

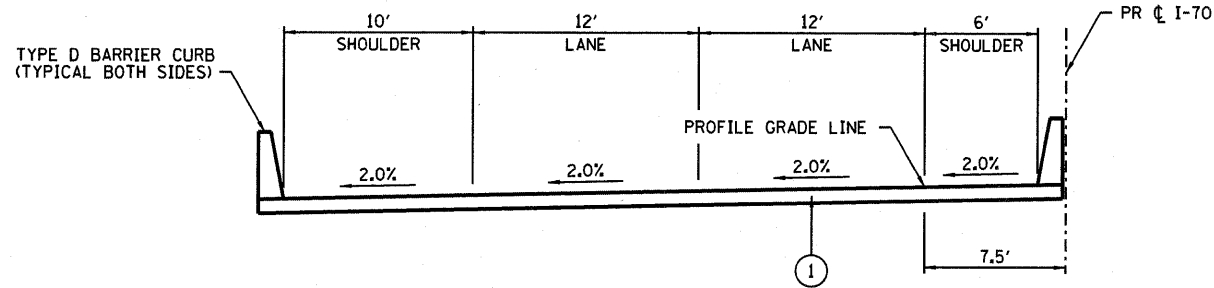


CROSSING LOCATION
ACCESS ROAD 3 STA 47+36.90
NORFOLK SOUTHERN RAILWAY COMPANY
HIGHWAY GRADE CROSSING (BY NORFOLK SOUTHERN RAILROAD)
ASPHALT PAVING
WITH RUBBER FLANGE WAY

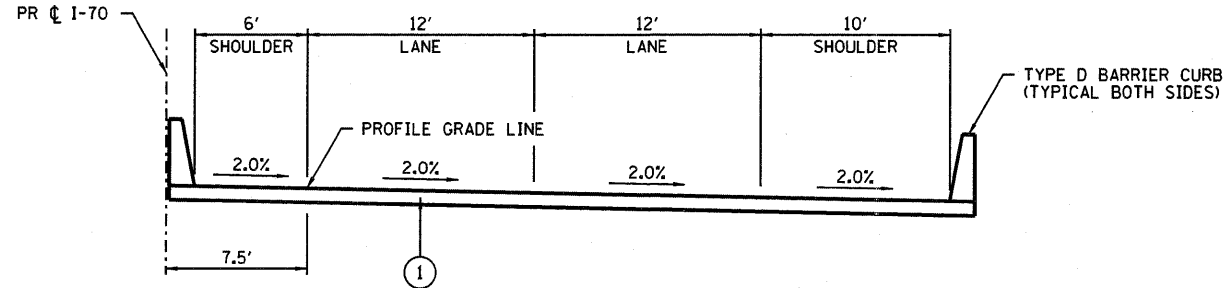
SHEET 3 OF 3
TYPICAL SECTIONS
ACCESS ROAD 3
CROSSING DETAILS

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR

USER NAME = John Keeven
PLOT SCALE = 50.00' / IN.
PLOT DATE = 4/14/2010
DESIGNED - HNTB
CHECKED - CMT
DRAWN - CMT / HNTB
REVISED -
REVISED -
REVISED -
REVISED -



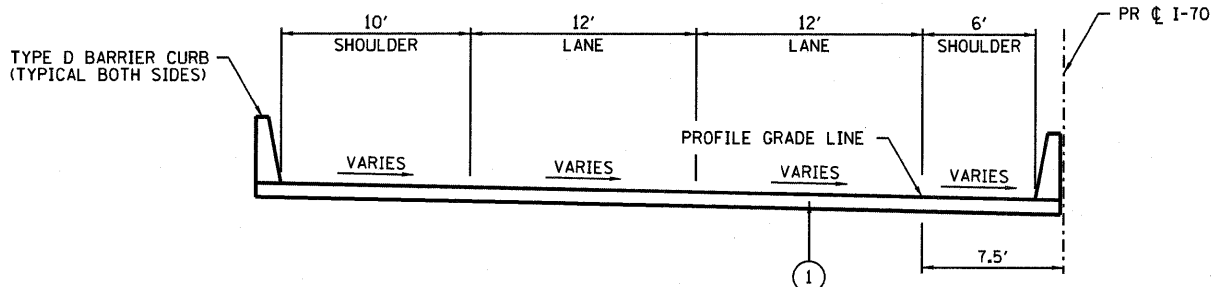
TYPICAL SECTION NO. 1
I-70 WBL: STA 102+35.75 TO STA 120+00.00



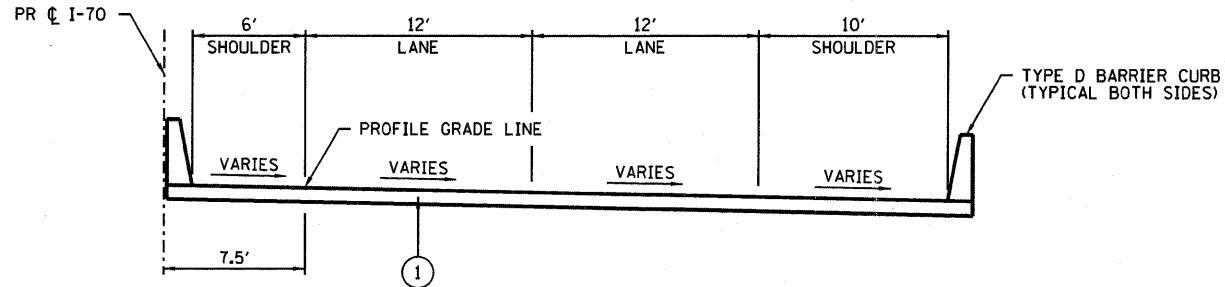
TYPICAL SECTION NO. 2
I-70 EBL: STA 102+35.75 TO STA 122+42.00

PROPOSED LEGEND

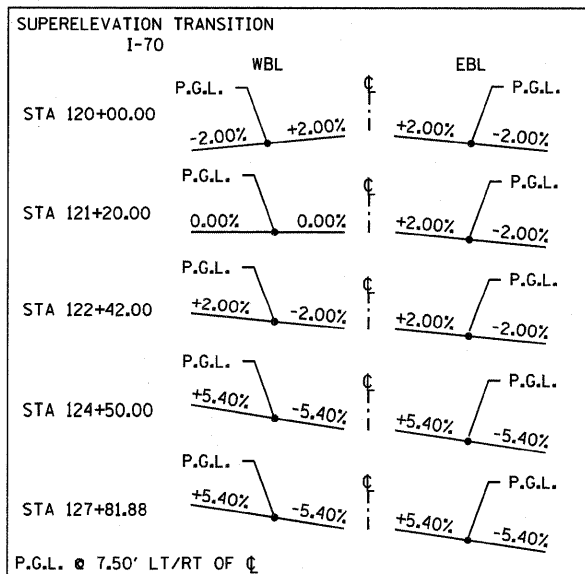
① BRIDGE STRUCTURE (SEE BRIDGE PLANS)



TYPICAL SECTION NO. 3
I-70 WBL: STA 120+00.00 TO STA 127+81.88



TYPICAL SECTION NO. 4
I-70 EBL: STA 122+42.00 TO STA 127+81.88



TYPICAL SECTION I-70
ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
STA. 102 + 35.75 TO STA. 127 + 81.88

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY NO. 001270

CMT
CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

SHEET 1 OF 1
TYPICAL SECTION
INTERSTATE 70

EARTHWORK SCHEDULE								
LOCATION	EARTH EXCAVATION	NON-SPECIAL WASTE DISPOSAL ***	HAZARDOUS WASTE DISPOSAL ***	EMBANKMENT	GRANULAR EMBANKMENT, SPECIAL	LIME	* EXCAVATION TO BE USED AS EMBANKMENT (ADJUSTED FOR SHRINKAGE) 25%	** EARTHWORK BALANCE EXCESS (+) SHORTAGE (-)
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(TON)	(TON)	(CU YD)	(CU YD)
ACCESS ROAD 1:								
STA. 10+09.43 TO STA. 22+00.00	0	2,188	0	268	797		0	- 268
STA. 22+00.00 TO STA. 42+85.00	0	2,661	0	772	0		0	- 772
STA. 43+15.00 TO STA. 46+40.00	0	496	0	57	0		0	- 57
STA. 46+40.00 TO STA. 71+00.00	5,563	789	0	527	0		4,172	+ 3,645
STA. 24+20.00 TO STA. 46+40.00						50		
ACCESS ROAD 2:								
STA. 10+90.00 TO STA. 52+30.00	570	5,058	537	153	0		428	+ 275
ACCESS ROAD 3:								
STA. 10+27.63 TO STA. 82+00.00	0	7,177	0	305	0		0	- 305
PIER 18, 19, 20, 21, 22, 23	0	708	0	0	0		0	0
TOTALS	6,133	19,077	537	2,082	797	50	4,600	+ 2,518

ASSUMED SHRINKAGE FACTOR OF 25%
 * EARTH EXCAVATION TO BE USED AS EMBANKMENT - EARTH EXCAVATION X 0.75
 ** EARTHWORK BALANCE = [EMBANKMENT - (EARTH EXCAVATION X 0.75)]
 *** SEE REMOVAL AND DISPOSAL OF REGULATED SUBSTANCES SPECIAL PROVISION FOR ADDITIONAL INFORMATION

SEEDING SCHEDULE						
LOCATION	SEEDING, CLASS 4A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2
	(ACRE)	(POUND)	(POUND)	(POUND)	(TON)	(ACRE)
ACCESS ROAD 1	3.93	354	354	354	7.9	3.93
ACCESS ROAD 2	2.53	227	227	227	5.1	2.53
ACCESS ROAD 3	4.86	437	437	437	9.7	4.86
RELOCATED I-70	8.89	800	800	800	17.8	8.89
TOTALS	20.2	1818	1818	1818	40.4	20.2


TEMPORARY EROSION CONTROL SCHEDULE				
LOCATION	PERIMETER EROSION BARRIER	AGGREGATE DITCH CHECKS	TEMPORARY EROSION CONTROL SEEDING	MULCH, METHOD 2
	(FOOT)	(TON)	(POUND)	(ACRE)
STA. 10+44.97 TO STA. 71+15.20 - ACCESS RD. 1	10553	33.6		
STA. 10+79.59 TO STA. 52+28.06 - ACCESS RD. 2	7786	24		
STA. 10+12.83 TO STA. 79+99.06 - ACCESS RD. 3	13737			
STA. 108+24.00 TO STA. 127+24.00 - I-70	4830			
ACCESS ROAD 1			393	3.93
ACCESS ROAD 2			253	2.53
ACCESS ROAD 3			486	4.86
RELOCATED I-70			889	8.89
TOTALS	36906	58	2020	20.2

PAVEMENT SCHEDULE		
LOCATION	ROCK BASE, 24"	INCIDENTAL HOT-MIX ASPHALT SURFACING
	(SQ YD)	(TON)
STA. 10+24.78 TO STA. 22+00.00 - ACCESS RD. 1	1973	
STA. 24+54.70 TO STA. 25+40.00 LT. AND RT. - ACCESS RD. 1	157	
STA. 44+93.81 RT. TO STA. 46+62.20 RT. - ACCESS RD. 1	150	
STA. 46+40.00 TO STA. 71+15.20 - ACCESS RD. 1	4125	
STA. 10+79.59 TO STA. 52+28.06 - ACCESS RD. 2	7329	
STA. 10+12.83 TO STA. 79+99.06 - ACCESS RD. 3	12296	
STA. 10+18 - ACCESS RD. 3		21.4
TOTALS	26030	22


F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keever	
PLOT SCALE = 1.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

SCHEDULE OF QUANTITIES
 ILLINOIS APPROACH STRUCTURE
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
 SHEET 1 OF 3

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 MISSOURI HIGHWAYS
 AND TRANSPORTATION COMMISSION



715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270



CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR

USER NAME = John Keeven
 PLOT SCALE = 1.0000' / IN.
 PLOT DATE = 4/14/2010

DESIGNED - HNTB
 CHECKED - CMT
 DRAWN - CMT / HNTB

REVISED -
 REVISED -
 REVISED -
 REVISED -

SCHEDULE OF QUANTITIES

ILLINOIS APPROACH STRUCTURE
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

SHEET 2 OF 3

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS
 AND TRANSPORTATION COMMISSION

HNTB
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REMOVAL AND ADJUSTMENT SCHEDULE					
LOCATION	TREE REMOVAL, (6 TO 15 UNITS DIAMETER) (UNIT)	TREE REMOVAL, (OVER 15 UNITS DIAMETER) (UNIT)	TREE REMOVAL, ACRES (ACRE)	DRIVEWAY PAVEMENT REMOVAL (SQ YD)	FENCE REMOVAL (FOOT)
STA. 12+48, LT. TO STA. 12+32, RT - ACCESS RD 1					28
STA. 13+78, LT TO STA. 14+42, LT. - ACCESS RD. 1					96
STA. 13+99, RT TO STA. 14+48, RT - ACCESS RD 1					60
STA. 15+16, RT TO STA. 18+98, RT - ACCESS RD 1					399
STA. 10+18.00 - ACCESS RD. 3				32.0	
STA. 57+80, 13' RT - ACCESS RD. 1		22			
STA. 57+85, 11' RT - ACCESS RD. 1		41			
STA. 58+60, 5' LT - ACCESS RD. 1	8				
STA. 58+60, 6' LT - ACCESS RD. 1	6				
STA. 58+60, 10' LT - ACCESS RD. 1	12				
STA. 58+75, 2' LT - ACCESS RD. 1		24			
STA. 59+75, 1' LT - ACCESS RD. 1	9				
STA. 59+85, 12' LT - ACCESS RD. 1	11				
STA. 59+87, 12' LT - ACCESS RD. 1	8				
ACCESS ROADS 1, 2, 3 AND RELOCATED I-70			2.8		
TOTALS	54	87	2.8	32	583

RIPRAP SCHEDULE	
LOCATION	STONE RIPRAP, CLASS A6 (SPECIAL) (SQ YD)
ROUTE I-70	
STA. 106+92.75 RT.	12.8
STA. 107+31.25 LT.	12.8
STA. 109+69.75 RT.	12.8
STA. 110+31.25 LT.	12.8
STA. 111+49.75 RT.	12.8
STA. 112+26.75 LT.	12.8
STA. 113+69.75 RT.	12.8
STA. 114+16.75 LT.	12.8
STA. 125+74.00 RT.	12.8
STA. 125+74.00 LT.	12.8
STA. 127+81.88 RT.	12.8
STA. 127+81.88 LT.	12.8
TOTAL	154

CHAIN LINK FENCE, 7' (SPECIAL)		
LOCATION	CHAIN LINK FENCE, 7' (SPECIAL) (FOOT)	FENCE CORNER POST (EACH)
ACCESS ROAD 1		
STA 13+98.07, RT		1
STA 15+16.29, RT		1
STA 15+16.29 RT TO STA 15+19.10 RT	8	
STA 15+19.10 RT TO STA 18+97.82 RT	400	
STA 15+19.10, RT		1
STA 18+97.82, RT		1
TOTALS	408	4

TEMPORARY CONCRETE BARRIER	
LOCATION	TEMPORARY CONCRETE BARRIER (FOOT)
ACCESS ROAD 3	
STA 24+00.00, LT	100
STA 24+05.00, RT	50
ACCESS ROAD 2	
STA 12+28.00, LT	25
STA 12+28.00, RT	25
TOTAL	200

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SCHEDULE OF QUANTITIES
 ILLINOIS APPROACH STRUCTURE
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
 SHEET 3 OF 3

STATE OF ILLINOIS
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RIGHT-OF-WAY AND PROPERTY CORNERS			
LOCATION	RIGHT-OF-WAY AND PROPERTY CORNERS (EACH)	SECTION CORNER MARKERS (EACH)	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS (EACH)
RELOCATED I-70			
STA 96+63.02, 100' RT			1
STA 96+87.21, 100' LT			1
STA 115+03.43, 100' RT (STA 47+07.70, 12.50' LT ACC RD 2)			1
STA 115+05.28, 100' LT (STA 57+93.05, 12.50' RT ACC RD 1)			1
STA 115+37.86, 100' RT (STA 47+29.09, 12.50' RT ACC RD 2)			1
STA 115+39.71, 100' LT (STA 57+67.01, 12.50' LT ACC RD 1)			1
STA 121+39.13, 100' LT			1
STA 121+64.14, 100' RT			1
STA 122+57.33, 100' RT			1
STA 122+82.35, 100' RT			1
STA 123+40.13, 100' LT			1
STA 123+40.13, 100' RT			1
STA 124+29.76, 100' RT			1
STA 124+56.12, 100' RT			1
STA 125+50.99, 100' LT			1
STA 126+74.14, 100' RT			1
STA 127+11.61, 100' LT			1
STA 127+75.16, 87.28' RT			1
STA 127+84.04, 133.29' RT			1
ACCESS ROADS: 1, 2, 7	5	5	
TOTALS	5	5	19

TUBULAR GATES, 4.5' x 16' SINGLE	
LOCATION	TUBULAR GATES 4.5' x 16' SINGLE (EACH)
ACCESS ROAD 1 STA 10+40, CL	1
ACCESS ROAD 2 STA 13+10, CL	1
ACCESS ROAD 3 STA 24+00, CL	1
TOTAL	3

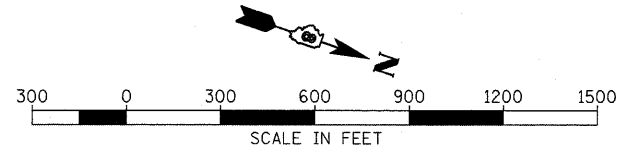
FULL DEPTH RUBBER CROSSING	
LOCATION	FULL DEPTH RUBBER CROSSING (EACH)
ACCESS ROAD 2 STA. 12+28.00, CL (51' Minimum)	1
STA. 51+86.00, CL (30' Centered on Access Road)	1
TOTAL	2

TEMPORARY ACCESS ROAD (SPECIAL)									
LOCATION	• 2" CA-6 (SO YD)	• 10" CA-7 (SO YD)	• 12" CA-5 (SO YD)	• 10 OUNCE NONWOVEN GEOTEXTILE (SO YD)	• 60 MIL HEAVY DUTY, TEXTURED (BOTH SIDES) GEOMEMBRANE (SO YD)	HEAVY DUTY • GEOGRID (SO YD)	STANDARD DUTY • GEOGRID (SO YD)	• PIPE UNDERDRAINS 4" PERFORATED PVC PIPE (FOOT)	• PIPE UNDERDRAIN OUTLET 4" PVC PIPE (FOOT)
ACCESS ROAD 1									
STA 22+00.00 TO 42+85.00	3700	3700	3700	5632	5632	3700	3700		70
STA 43+15.00 TO 46+40.00	541	541	541	813	813	541	541		56
STA 21+40.00									
STA 24+20.00									
STA 21+80.00 TO STA 42+85.00, 7' LT AND RT								4211	10
STA 43+15.00 TO STA 45+50.00, 7' LT AND RT								470	10
STA 21+80.00 LT									10
STA 21+80.00 RT									10
STA 28+60.00 LT									10
STA 31+00.00 LT									10
STA 33+50.00 LT									12
STA 36+00.00 LT									15
STA 39+00.00 RT									11
STA 39+25.00 LT									21
STA 41+00.00 LT									14
STA 41+00.00 RT									24
STA 42+85.00 LT									21
STA 42+85.00 RT									17
STA 45+50.00 LT									14
STA 45+50.00 RT									
TOTALS	4241	4241	4241	6445	6445	4241	4241	4681	325

* INCLUDED IN TEMPORARY ACCESS ROAD (SPECIAL). SEE TEMPORARY ACCESS ROAD (SPECIAL) SPECIAL PROVISION FOR ADDITIONAL REQUIREMENTS.

PIPE CULVERTS				
LOCATION	PIPE CULVERTS, CLASS A, TYPE 2 12" (FOOT)	CONCRETE COLLAR (CU YD)	REINFORCEMENT BARS (POUND)	TRENCH BACKFILL (CU YD)
ACCESS ROAD 1				
STA 13+06.50, 36.44' RT TO STA 13+83.78, 33.14' LT	104	0.22	70	13.7
STA 13+11.93, 42.02' RT TO STA 13+89.05, 26.80' LT	104	0.22	70	13.7
TOTALS	208	0.4	140	27

TEMPORARY ACCESS ROAD (SPECIAL), MAINTENANCE		
LOCATION	TEMPORARY ACCESS ROAD (SPECIAL), MAINTENANCE (FOOT)	AGGREGATE SURFACE COURSE, TYPE A (TON)
ACCESS ROAD 1		
STA 22+00.00 TO 46+40.00	970000	11000
TOTALS	970000	11000



ACCESS ROAD 7 P.I. COORDINATES

CURVE ACC7-06 N 14,051,638.89 E 2,447,230.72
 CURVE ACC7-07 N 14,051,824.20 E 2,447,053.30

ACCESS ROAD 7 CURVE DATA

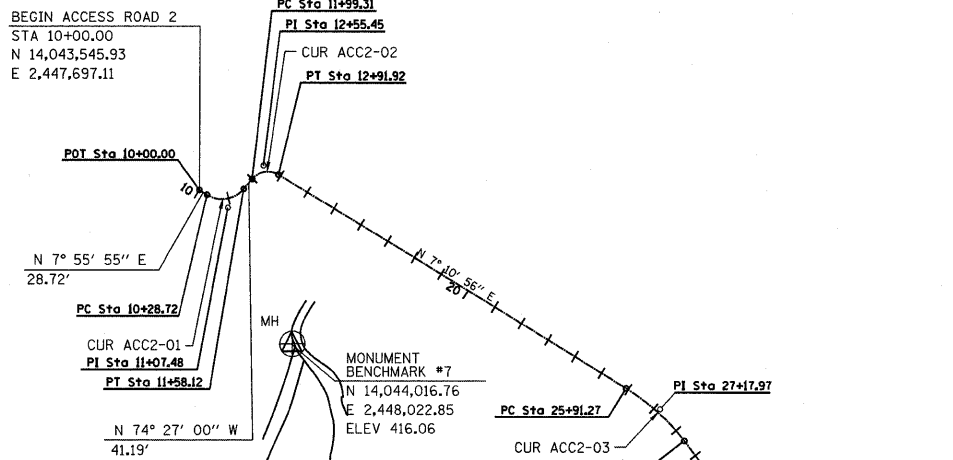
PROP. CURVE ACC7-06 PI STA. = 58+68.95 Δ = 11° 00' 09" (LT) D = 3° 57' 00" R = 1,450.52' T = 139.70' L = 278.54' E = 6.71' e = N.C. T.R. = N/A S.E. RUN = N/A P.C. STA. = 57+29.24 P.T. STA. = 60+07.79	PROP. CURVE ACC7-07 PI STA. = 61+24.64 Δ = 11° 23' 29" (RT) D = 4° 53' 26" R = 1,171.58' T = 116.85' L = 232.93' E = 5.81' e = N.C. T.R. = N/A S.E. RUN = N/A P.C. STA. = 60+07.79 P.T. STA. = 62+40.72
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ACCESS ROAD 1 P.I. COORDINATES

CUR ACC1-01 N 14,051,075.22 E 2,447,095.28	CUR ACC1-05 N 14,048,164.99 E 2,448,604.17
CUR ACC1-02 N 14,050,158.61 E 2,447,676.19	CUR ACC1-06 N 14,047,551.95 E 2,448,620.29
CUR ACC1-03 N 14,048,633.10 E 2,448,372.93	CUR ACC1-07 N 14,047,262.27 E 2,448,596.05
CUR ACC1-04 N 14,048,303.97 E 2,448,494.54	CUR ACC1-08 N 14,047,085.98 E 2,448,505.14

ACCESS ROAD 1 CURVE DATA

PROP. CURVE ACC1-01 PI STA. = 15+17.51 Δ = 55° 05' 29" (LT) D = 10° 25' 03" R = 550.00' T = 286.87' L = 528.84' E = 70.32' e = N.C. T.R. = N/A S.E. RUN = N/A P.C. STA. = 12+30.64 P.T. STA. = 17+59.48	PROP. CURVE ACC1-03 PI STA. = 42+34.67 Δ = 4° 16' 08" (RT) D = 1° 54' 35" R = 3,000.00' T = 111.81' L = 223.52' E = 2.08' e = N.C. T.R. = N/A S.E. RUN = N/A P.C. STA. = 41+22.85 P.T. STA. = 43+46.37	PROP. CURVE ACC1-05 PI STA. = 47+61.52 Δ = 36° 45' 32" (RT) D = 23° 37' 38" R = 242.50' T = 80.57' L = 155.58' E = 13.04' e = N.C. T.R. = N/A S.E. RUN = N/A P.C. STA. = 46+80.95 P.T. STA. = 48+36.53	PROP. CURVE ACC1-07 PI STA. = 56+59.63 Δ = 22° 29' 50" (RT) D = 7° 16' 19" R = 787.90' T = 156.70' L = 309.37' E = 15.43' e = N.C. T.R. = N/A S.E. RUN = N/A P.C. STA. = 55+02.93 P.T. STA. = 58+12.30
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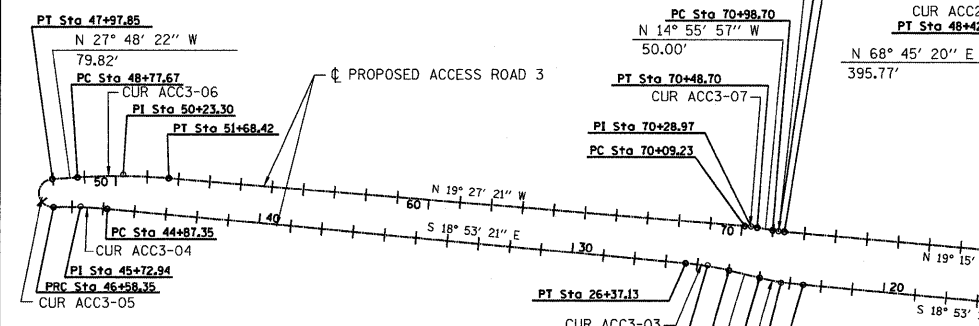


ACCESS ROAD 3 P.I. COORDINATES

CURVE ACC3-01 N 14,047,487.62 E 2,449,397.98
 CURVE ACC3-02 N 14,046,422.81 E 2,449,762.28
 CURVE ACC3-03 N 14,046,186.76 E 2,449,807.56

ACCESS ROAD 3 CURVE DATA

PROP. CURVE ACC3-01 PI STA. = 12+35.09 Δ = 105° 26' 34" (LT) D = 134° 48' 49" R = 42.50' T = 55.83' L = 78.21' E = 27.67' e = N.C. T.R. = N/A S.E. RUN = N/A P.C. STA. = 11+79.26 P.T. STA. = 12+57.47	PROP. CURVE ACC3-02 PI STA. = 23+27.04 Δ = 8° 01' 39" (RT) D = 5° 43' 46" R = 1,000.00' T = 70.17' L = 140.15' E = 2.46' e = N.C. T.R. = N/A S.E. RUN = N/A P.C. STA. = 22+56.88 P.T. STA. = 23+96.98	PROP. CURVE ACC3-03 PI STA. = 25+67.17 Δ = 8° 01' 47" (LT) D = 5° 43' 46" R = 1,000.00' T = 70.19' L = 140.15' E = 2.46' e = N.C. T.R. = N/A S.E. RUN = N/A P.C. STA. = 24+96.98 P.T. STA. = 26+37.13
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ACCESS ROAD 3 CURVE DATA

PROP. CURVE ACC3-04 PI STA. = 45+72.94 Δ = 6° 31' 54" (LT) D = 3° 49' 11" R = 1,500.00' T = 85.59' L = 171.00' E = 2.44' e = N.C. T.R. = N/A S.E. RUN = N/A P.C. STA. = 44+87.35 P.T. STA. = 46+58.35	PROP. CURVE ACC3-05 PI STA. = 68+19.92 Δ = 127° 19' 26" D = 127° 19' 26" R = 45.00' T = 2,161.57' L = 139.50' E = 2,117.04' e = N.C. T.R. = N/A S.E. RUN = N/A P.C. STA. = 46+58.35 P.T. STA. = 47+97.85	PROP. CURVE ACC3-06 PI STA. = 50+23.30 Δ = 8° 21' 02" (RT) D = 2° 52' 19" R = 1,995.00' T = 145.64' L = 290.76' E = 5.31' e = N.C. T.R. = N/A S.E. RUN = N/A P.C. STA. = 48+77.67 P.T. STA. = 51+68.42
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ACCESS ROAD 3 P.I. COORDINATES

CURVE ACC3-04 N 14,044,288.79 E 2,450,456.98
 CURVE ACC3-05 N 14,042,259.20 E 2,451,421.61
 CURVE ACC3-06 N 14,044,370.59 E 2,450,308.10
 CURVE ACC3-07 N 14,046,262.22 E 2,449,639.89
 CURVE ACC3-08 N 14,046,347.86 E 2,449,617.05

ACCESS ROAD 2 P.I. COORDINATES

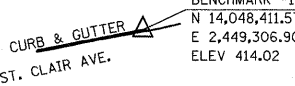
CUR ACC2-01 N 14,043,652.38 E 2,447,711.95	CUR ACC2-04 N 14,046,310.44 E 2,448,341.33
CUR ACC2-02 N 14,043,699.58 E 2,447,542.30	CUR ACC2-05 N 14,047,028.16 E 2,448,634.23
CUR ACC2-03 N 14,045,170.14 E 2,447,727.61	

ACCESS ROAD 2 CURVE DATA

PROP. CURVE ACC2-01 PI STA. = 11+07.48 Δ = 82° 22' 55" (LT) D = 63° 39' 43" R = 90.00' T = 78.76' L = 129.41' E = 29.60' e = N.C. T.R. = N/A S.E. RUN = N/A P.C. STA. = 10+28.72 P.T. STA. = 11+58.12	PROP. CURVE ACC2-02 PI STA. = 12+55.45 Δ = 81° 37' 56" (RT) D = 88° 08' 50" R = 65.00' T = 56.14' L = 92.61' E = 20.89' e = N.C. T.R. = N/A S.E. RUN = N/A P.C. STA. = 11+99.31 P.T. STA. = 12+91.92	PROP. CURVE ACC2-03 PI STA. = 27+17.97 Δ = 21° 06' 27" (RT) D = 8° 25' 33" R = 680.00' T = 126.69' L = 250.51' E = 11.70' e = N.C. T.R. = N/A S.E. RUN = N/A P.C. STA. = 25+91.27 P.T. STA. = 28+41.78	PROP. CURVE PRACCO2-4 PI STA. = 40+10.06 Δ = 6° 05' 22" (LT) D = 1° 54' 35" R = 3,000.00' T = 159.58' L = 318.85' E = 4.24' e = N.C. T.R. = N/A S.E. RUN = N/A P.C. STA. = 38+50.48 P.T. STA. = 41+69.33	PROP. CURVE ACC2-05 PI STA. = 47+84.94 Δ = 46° 33' 20" (RT) D = 38° 11' 50" R = 150.00' T = 64.53' L = 121.88' E = 13.29' e = N.C. T.R. = N/A S.E. RUN = N/A P.C. STA. = 47+20.41 P.T. STA. = 48+42.29
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B.M. #10 SET IN CONCRETE MEDIAN ON THE EAST SIDE OF ILLINOIS ROUTE 3 (ST. CLAIR AVE) BETWEEN TWO RAILROAD BRIDGES, APPROXIMATELY 0.1 MILES SOUTH OF 1ST STREET (IN FRONT OF 301 S. CLAIR AVE WAREHOUSE & STORE FIXTURE CO.)

B.M. #11 SET IN THE BACK OF A 4.5 FOOT CONCRETE WALK (END OF WALK), LOCATED ON THE WEST SIDE OF ILLINOIS ROUTE 3 APPROXIMATELY 0.3 MILES SOUTH OF CANAL STREET.



NOTE:
ACCESS ROAD 4, 5, AND 6 BY OTHERS

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999	82-1B-2
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ALIGNMENT SHEET
 ACCESS ROADS
 ILLINOIS APPROACH STRUCTURE
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

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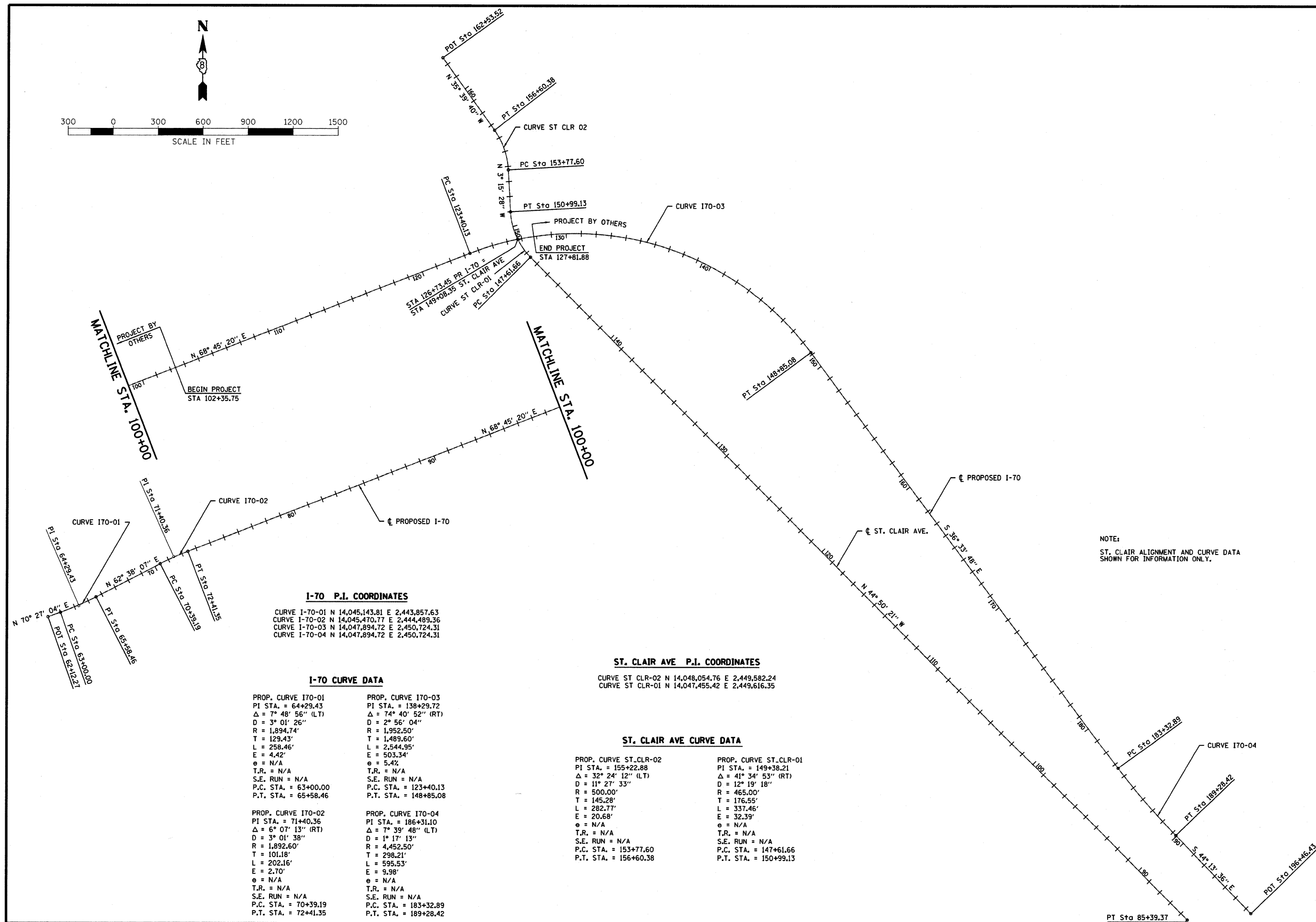
REVISED -

ALIGNMENT SHEET
RELOCATED INTERSTATE 70
ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

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I-70 P.I. COORDINATES

CURVE I-70-01	N 14,045,143.81	E 2,443,857.63
CURVE I-70-02	N 14,045,470.77	E 2,444,489.36
CURVE I-70-03	N 14,047,894.72	E 2,450,724.31
CURVE I-70-04	N 14,047,894.72	E 2,450,724.31

I-70 CURVE DATA

PROP. CURVE I70-01	PROP. CURVE I70-03
PI STA. = 64+29.43	PI STA. = 138+29.72
Δ = 7° 48' 56" (LT)	Δ = 74° 40' 52" (RT)
D = 3° 01' 26"	D = 2° 56' 04"
R = 1,894.74'	R = 1,952.50'
T = 129.43'	T = 1,489.60'
L = 258.46'	L = 2,544.95'
E = 4.42'	E = 503.34'
θ = N/A	θ = 5.42'
T.R. = N/A	T.R. = N/A
S.E. RUN = N/A	S.E. RUN = N/A
P.C. STA. = 63+00.00	P.C. STA. = 123+40.13
P.T. STA. = 65+58.46	P.T. STA. = 148+85.08

PROP. CURVE I70-02	PROP. CURVE I70-04
PI STA. = 71+40.36	PI STA. = 186+31.10
Δ = 6° 07' 13" (RT)	Δ = 7° 39' 48" (LT)
D = 3° 01' 38"	D = 1° 17' 13"
R = 1,892.60'	R = 4,452.50'
T = 101.18'	T = 298.21'
L = 202.16'	L = 595.53'
E = 2.70'	E = 9.98'
θ = N/A	θ = N/A
T.R. = N/A	T.R. = N/A
S.E. RUN = N/A	S.E. RUN = N/A
P.C. STA. = 70+39.19	P.C. STA. = 183+32.89
P.T. STA. = 72+41.35	P.T. STA. = 189+28.42

ST. CLAIR AVE P.I. COORDINATES

CURVE ST CLR-02	N 14,048,054.76	E 2,449,582.24
CURVE ST CLR-01	N 14,047,455.42	E 2,449,616.35

ST. CLAIR AVE CURVE DATA

PROP. CURVE ST CLR-02	PROP. CURVE ST CLR-01
PI STA. = 155+22.88	PI STA. = 149+38.21
Δ = 32° 24' 12" (LT)	Δ = 41° 34' 53" (RT)
D = 11° 27' 33"	D = 12° 19' 18"
R = 500.00'	R = 465.00'
T = 145.28'	T = 176.55'
L = 282.77'	L = 337.46'
E = 20.68'	E = 32.39'
θ = N/A	θ = N/A
T.R. = N/A	T.R. = N/A
S.E. RUN = N/A	S.E. RUN = N/A
P.C. STA. = 153+77.60	P.C. STA. = 147+61.66
P.T. STA. = 156+60.38	P.T. STA. = 150+99.13

NOTE:
ST. CLAIR ALIGNMENT AND CURVE DATA
SHOWN FOR INFORMATION ONLY.

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 1:2000' / IN.	
PLOT DATE = 4/14/2010	

DESIGNED - HNTB
CHECKED - CMT
DRAWN - CMT / HNTB
REVISED -
REVISED -
REVISED -
REVISED -

REFERENCE POINTS	ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
---	--

HNTB
715 K IRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CMT
CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

BENCHMARK MONUMENT #3

DESCRIPTION:
SET AT THE END OF A CONCRETE WALK AT THE NORTHWEST CORNER OF MULLANPHY STREET AND 1ST STREET; AND THE SOUTHEAST CORNER OF THE PROPERTY OF STATE CORRECTIONAL FACILITY

NORTHING = 14044432.0298
EASTING = 2444615.4314
ELEV = 444.67

BENCHMARK MONUMENT #7

DESCRIPTION:
SET IN THE SOUTHWEST CORNER OF CONCRETE TO A 6'X6' 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 OF FRONT STREET AND RIVERPARK

NORTHING = 14044016.7556
EASTING = 2448022.8515
ELEV = 416.06

BENCHMARK MONUMENT #8

DESCRIPTION:
SET IN 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.

NORTHING = 14045393.2950
EASTING = 2451580.4763
ELEV = 401.95

BENCHMARK MONUMENT #10

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

NORTHING = 14042385.4974
EASTING = 2454724.8844
ELEV = 420.78

BENCHMARK MONUMENT #11

DESCRIPTION:
SET IN THE BACK OF A 4.5' CONCRETE WALK (END OF WALK), LOCATED ON THE WEST SIDE OF ILLINOIS ROUTE 3 APPROXIMATELY 0.3 MILES SOUTH OF CANAL STREET. (BROOKLYN)

NORTHING = 14048411.5720
EASTING = 2449306.9042
ELEV = 414.02

BENCHMARK MONUMENT #12

DESCRIPTION:
SET IN THE SOUTHWEST CORNER OF A LARGE CONCRETE WATER VAULT AT THE NORTHEAST CORNER OF CORNELL AND CANAL /EAGLE PARK ROAD, 0.3+ MILES FROM THE INTERSECTION OF CANAL AND ILLINOIS ROUTE 3.

NORTHING = 14050279.7954
EASTING = 2450624.9022
ELEV = 411.30

COORDINATE SYSTEM

THE MISSISSIPPI RIVER BRIDGE (MRB) PROJECT 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.

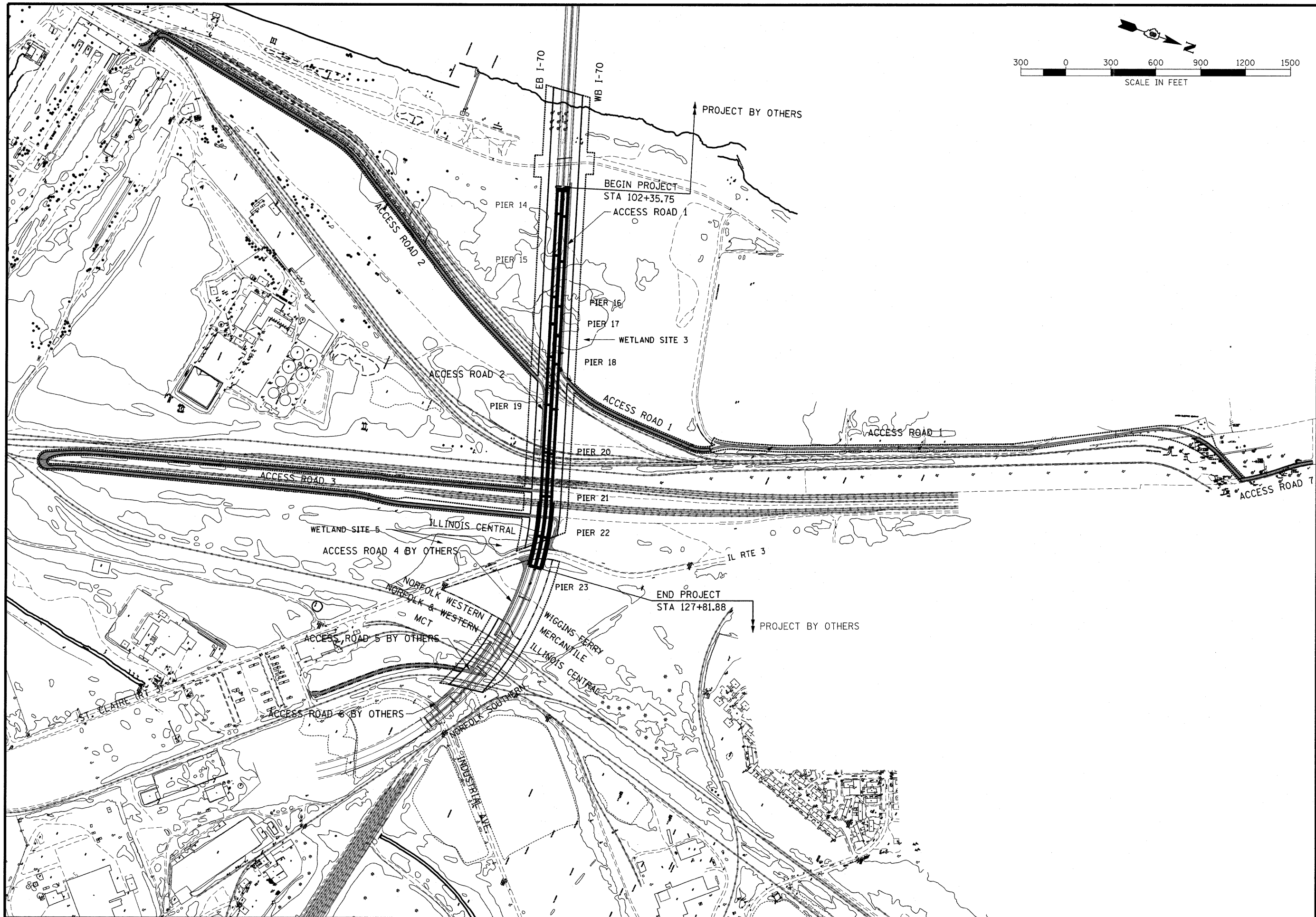
AVERAGE GRID FACTOR = 1.000339495
PROJECTION FACTOR = 1/GRID = 0.999660620

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



CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR

USER NAME = John Keever
 PLOT SCALE = 300.0000' / IN
 PLOT DATE = 4/14/2010

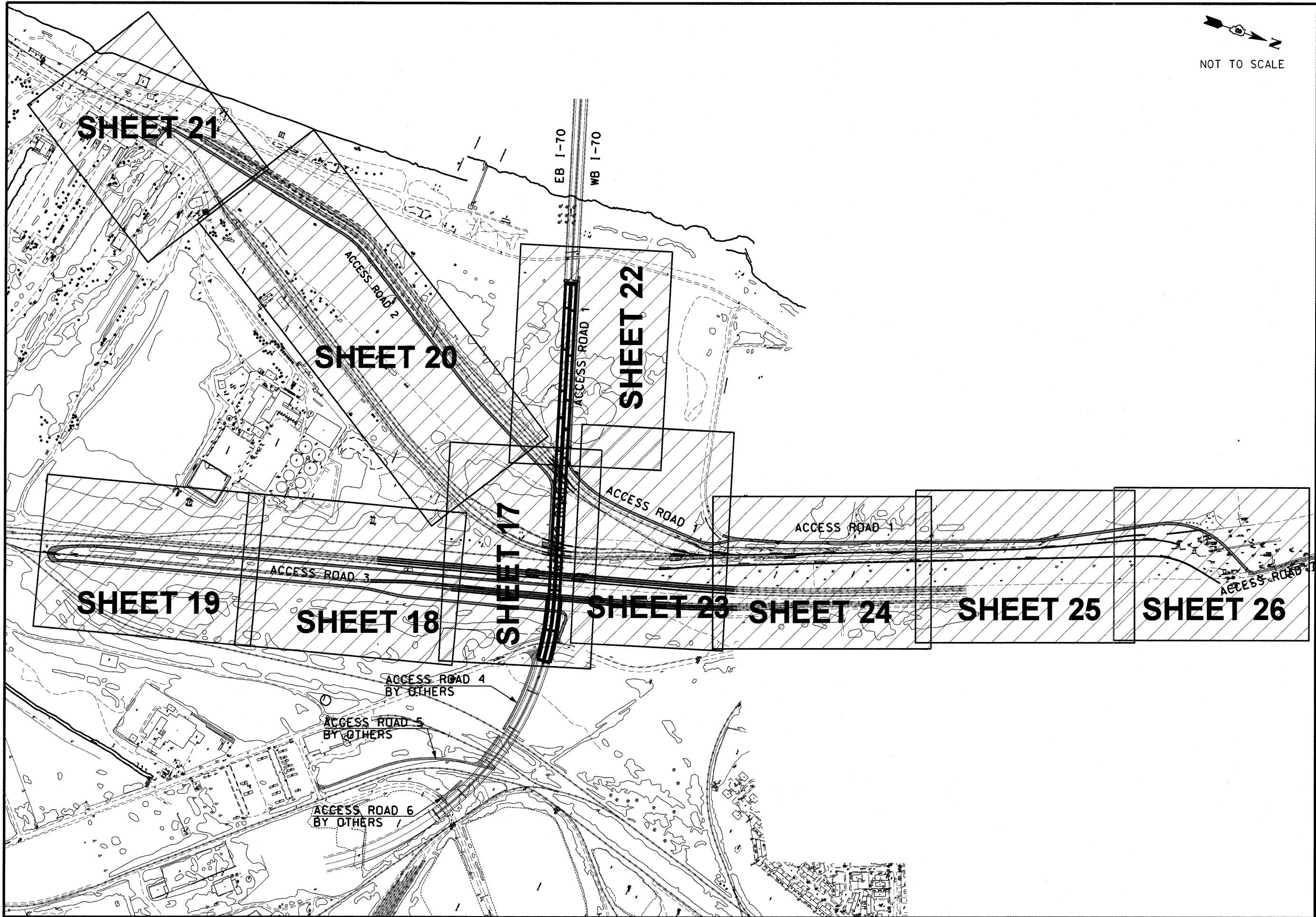
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

ROADWAY PLAN OVERVIEW
 ILLINOIS APPROACH STRUCTURE
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY
 NO. 001270

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631



NOT TO SCALE

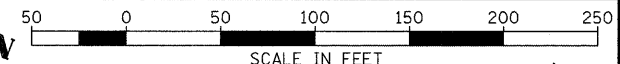
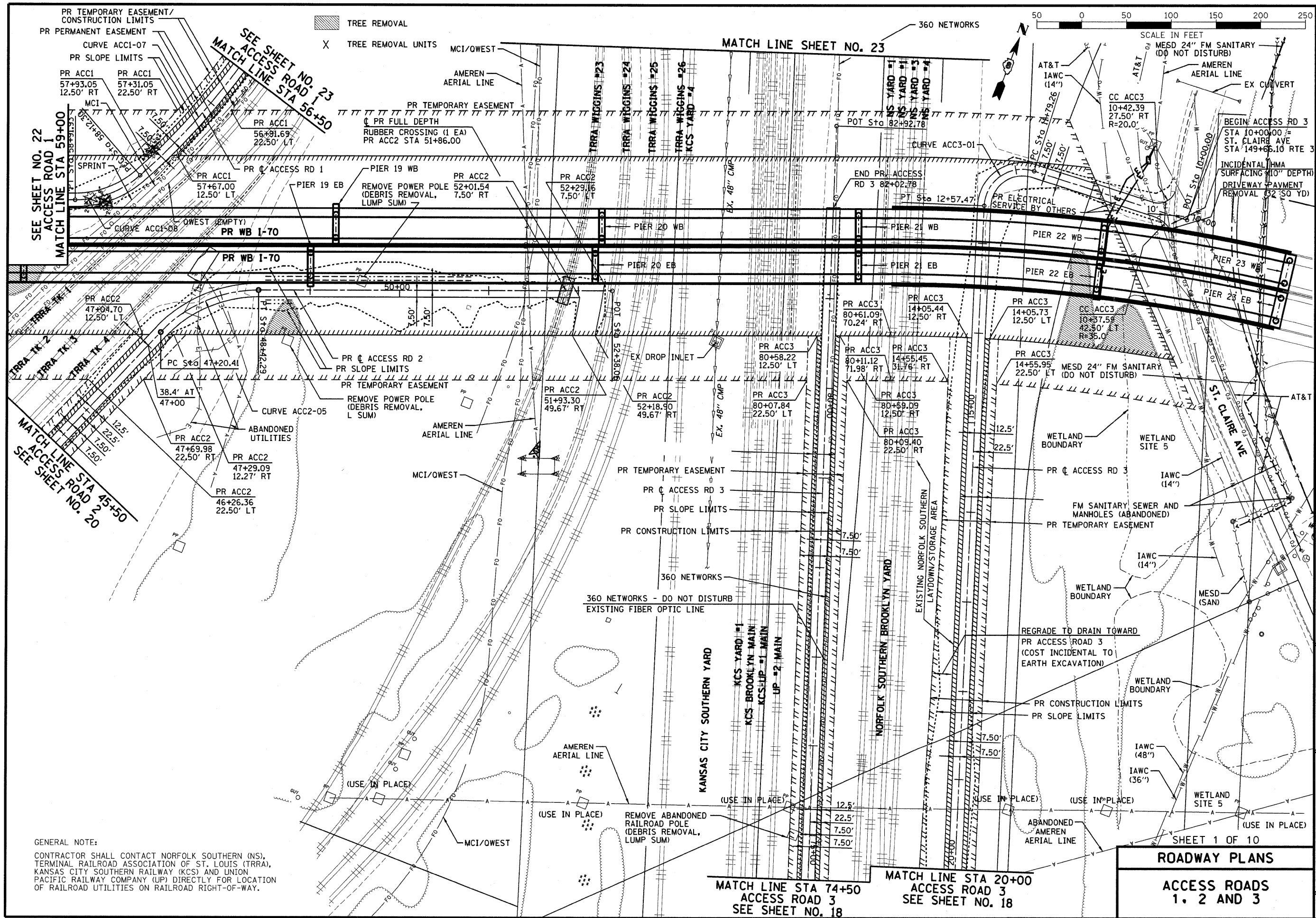
CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 300.0000' / IN	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

SHEET INDEX	ACCESS ROADS
	ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS	MISSOURI HIGHWAYS
DEPARTMENT OF TRANSPORTATION	AND TRANSPORTATION COMMISSION

HNTB
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 ENGINEERING CORPORATION - 000631



CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keaven	
PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

**PROPOSED PLAN
ACCESS ROADS**

ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STA. 54+00 TO STA. 59+00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

HNTB

715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CMT

CRANFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

SHEET 17 OF 81

SEE SHEET NO. 22
ACCESS ROAD 1
MATCH LINE STA 59+00

SEE SHEET NO. 23
ACCESS ROAD 1
MATCH LINE STA 56+50

MATCH LINE SHEET NO. 23

MATCH LINE STA 45+50
ACCESS ROAD 2
SEE SHEET NO. 20

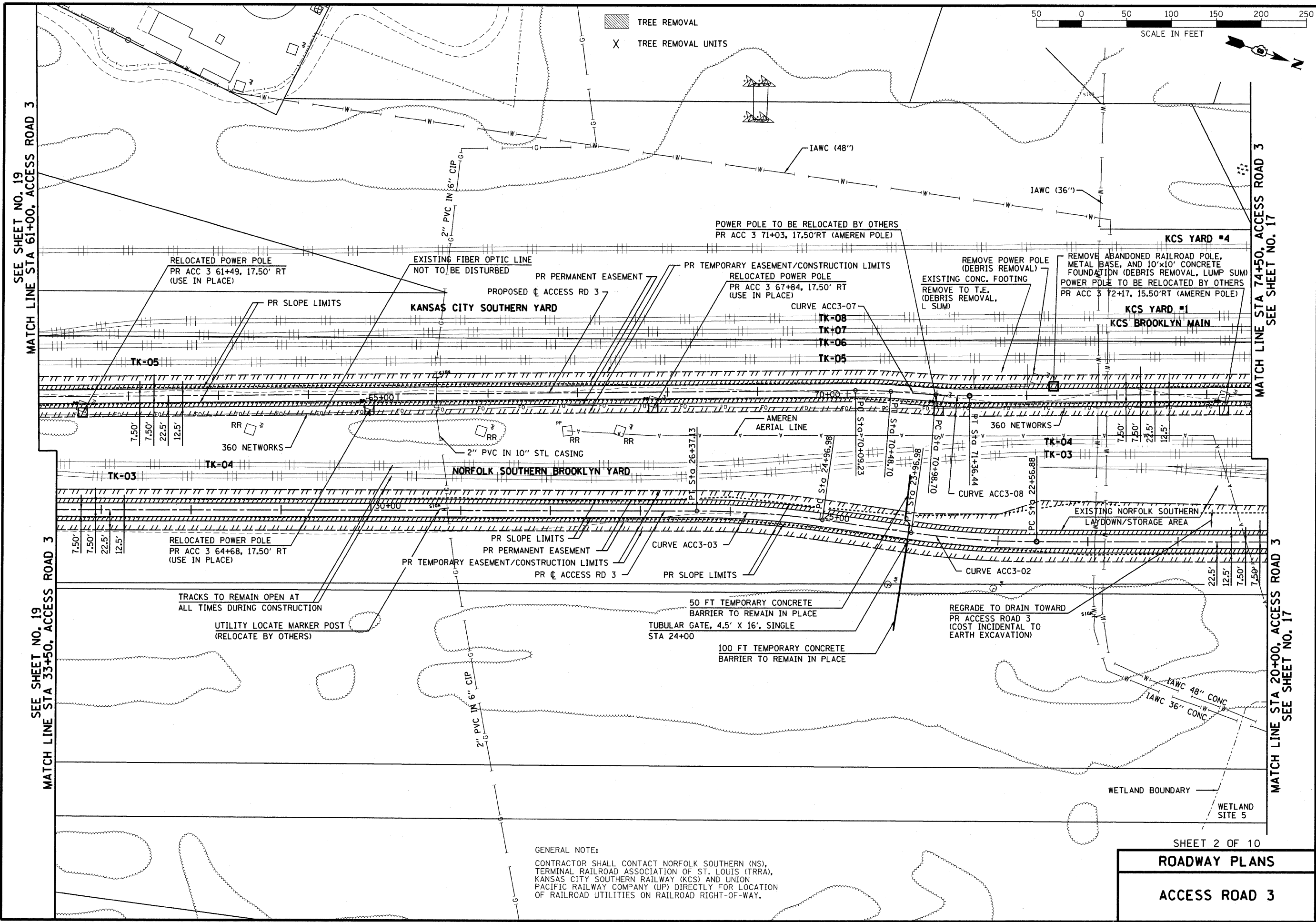
MATCH LINE STA 74+50
ACCESS ROAD 3
SEE SHEET NO. 18

MATCH LINE STA 20+00
ACCESS ROAD 3
SEE SHEET NO. 18

ROADWAY PLANS

ACCESS ROADS
1, 2 AND 3

GENERAL NOTE:
CONTRACTOR SHALL CONTACT NORFOLK SOUTHERN (NS),
TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS (TRRA),
KANSAS CITY SOUTHERN RAILWAY (KCS) AND UNION
PACIFIC RAILWAY COMPANY (UP) DIRECTLY FOR LOCATION
OF RAILROAD UTILITIES ON RAILROAD RIGHT-OF-WAY.



CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keaven	
PLOT SCALE = 50,000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

PROPOSED PLAN
ACCESS ROAD

ILLINOIS APPROACH STRUCTURE
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STA. 61 + 00 TO STA. 74 + 50

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

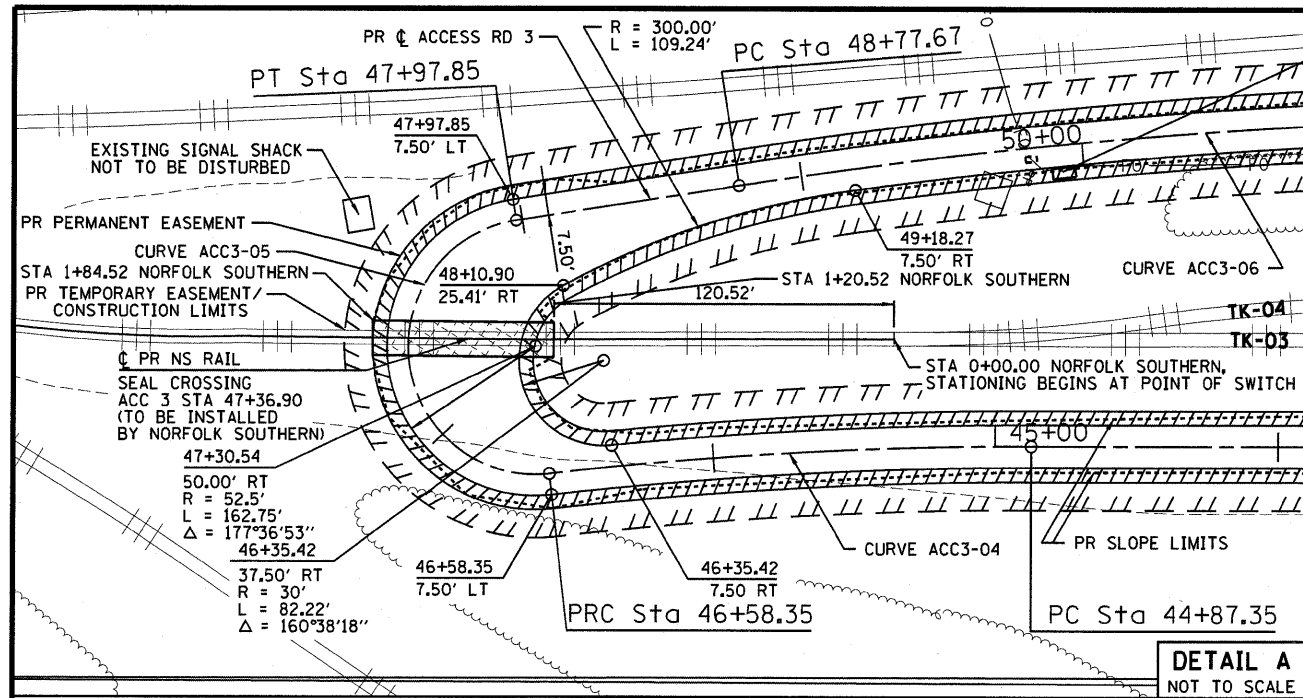
MISSOURI HIGHWAYS
 AND TRANSPORTATION COMMISSION

HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY
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CMT
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 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631

SHEET 2 OF 10
ROADWAY PLANS
ACCESS ROAD 3

GENERAL NOTE:
 CONTRACTOR SHALL CONTACT NORFOLK SOUTHERN (NS),
 TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS (TRRA),
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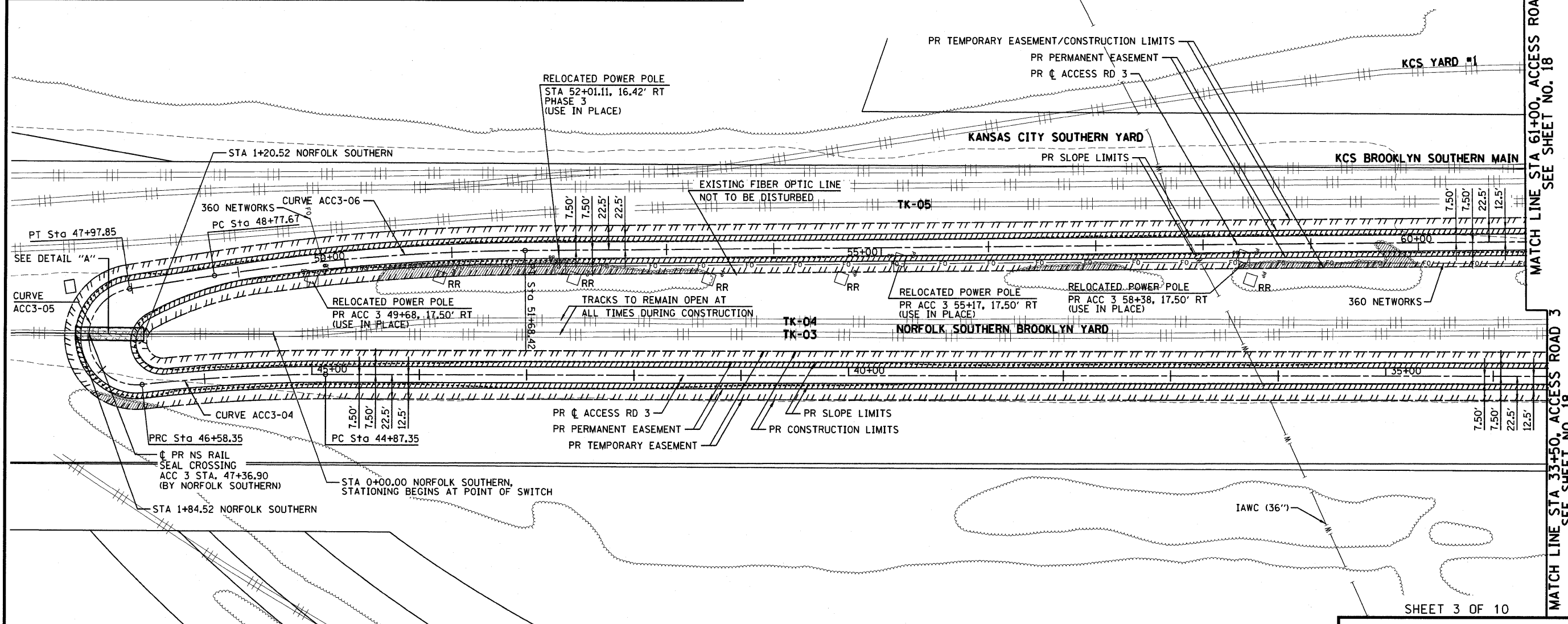
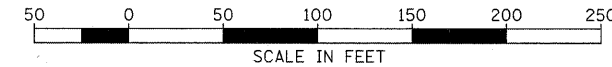


EX. 360 NETWORKS HAND HOLE TO BE RELOCATED BY OTHERS

GENERAL NOTE:

CONTRACTOR SHALL CONTACT NORFOLK SOUTHERN (NS), TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS (TRRA), KANSAS CITY SOUTHERN RAILWAY (KCS) AND UNION PACIFIC RAILWAY COMPANY (UP) DIRECTLY FOR LOCATION OF RAILROAD UTILITIES ON RAILROAD RIGHT-OF-WAY.

TREE REMOVAL
 TREE REMOVAL UNITS



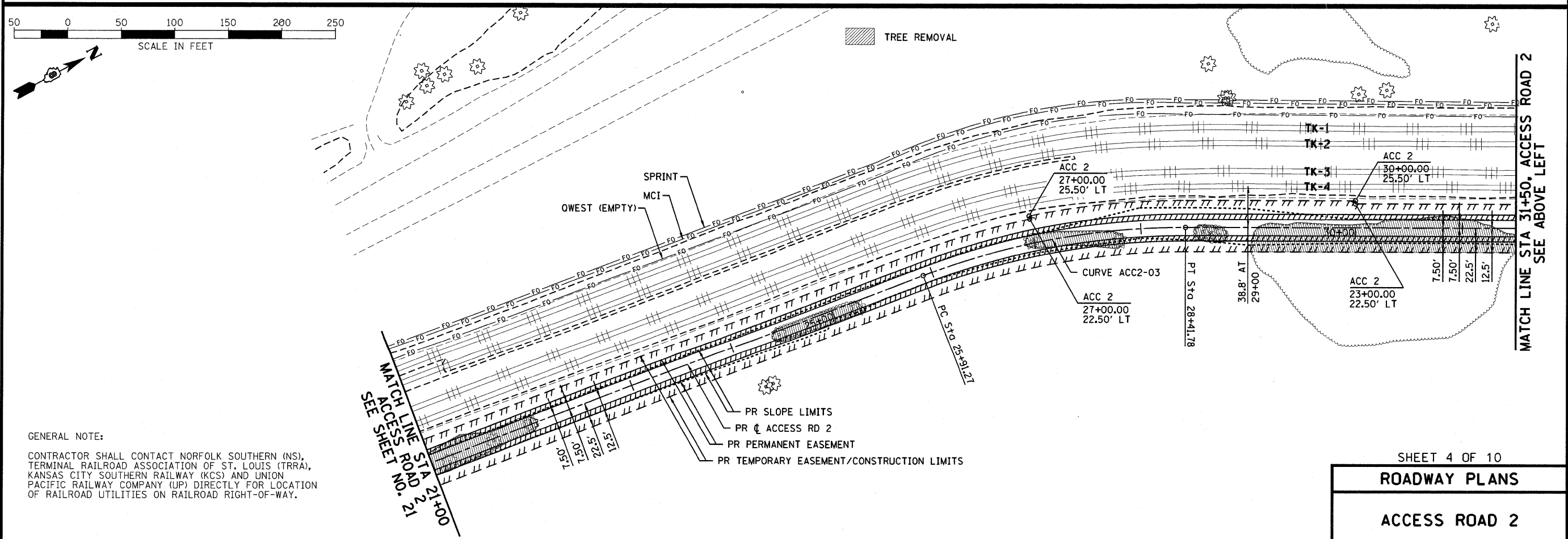
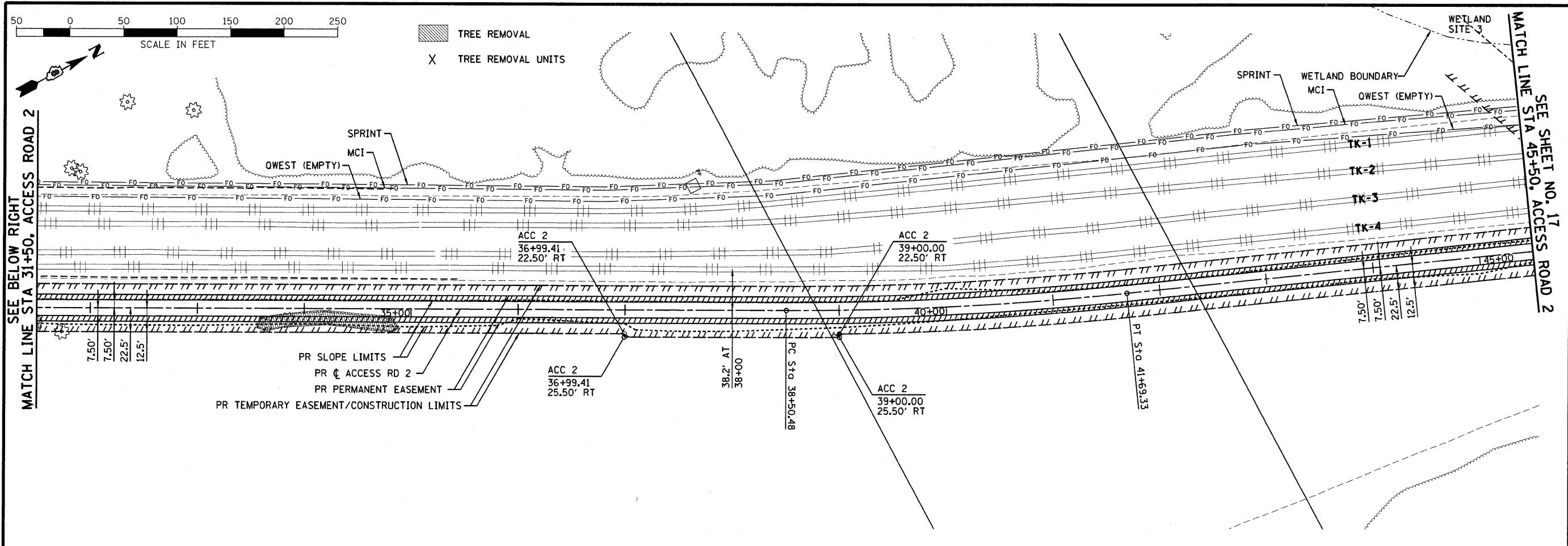
MATCH LINE STA 61+00, ACCESS ROAD 3 SEE SHEET NO. 18

MATCH LINE STA 33+50, ACCESS ROAD 3 SEE SHEET NO. 18

SHEET 3 OF 10
ROADWAY PLANS

ACCESS ROAD 3

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keaven	
PLOT SCALE = 50,000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	
REVISED -	
PROPOSED PLAN ACCESS ROADS	ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
	STA. 33 + 50 TO STA. 61 + 00
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
	HNTB 715 KIRK DRIVE KANSAS CITY, MO 64105 TELEPHONE (816) 472-1201 CERTIFICATE OF AUTHORITY NO. 001270
CMT CRAWFORD, MURPHY & TILLY, INC. 2750 WEST WASHINGTON STREET SPRINGFIELD, IL 62702 TELEPHONE (217) 787-8050 ENGINEERING CORPORATION - 000631	
SHEET 19 OF 81	



GENERAL NOTE:
 CONTRACTOR SHALL CONTACT NORFOLK SOUTHERN (NS),
 TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS (TRRA),
 KANSAS CITY SOUTHERN RAILWAY (KCS) AND UNION
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CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
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DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

**PROPOSED PLAN
ACCESS ROADS**

ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STA. 21 + 00 TO STA. 45 + 50

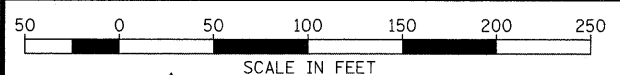
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY
 NO. 001270

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631

SHEET 4 OF 10
ROADWAY PLANS
ACCESS ROAD 2



• THE LENGTH AND PLACEMENT OF BARRIER SHALL BE AS DIRECTED BY THE ENGINEER AND TRRA'S ENGINEER

TREE REMOVAL
 TREE REMOVAL UNITS

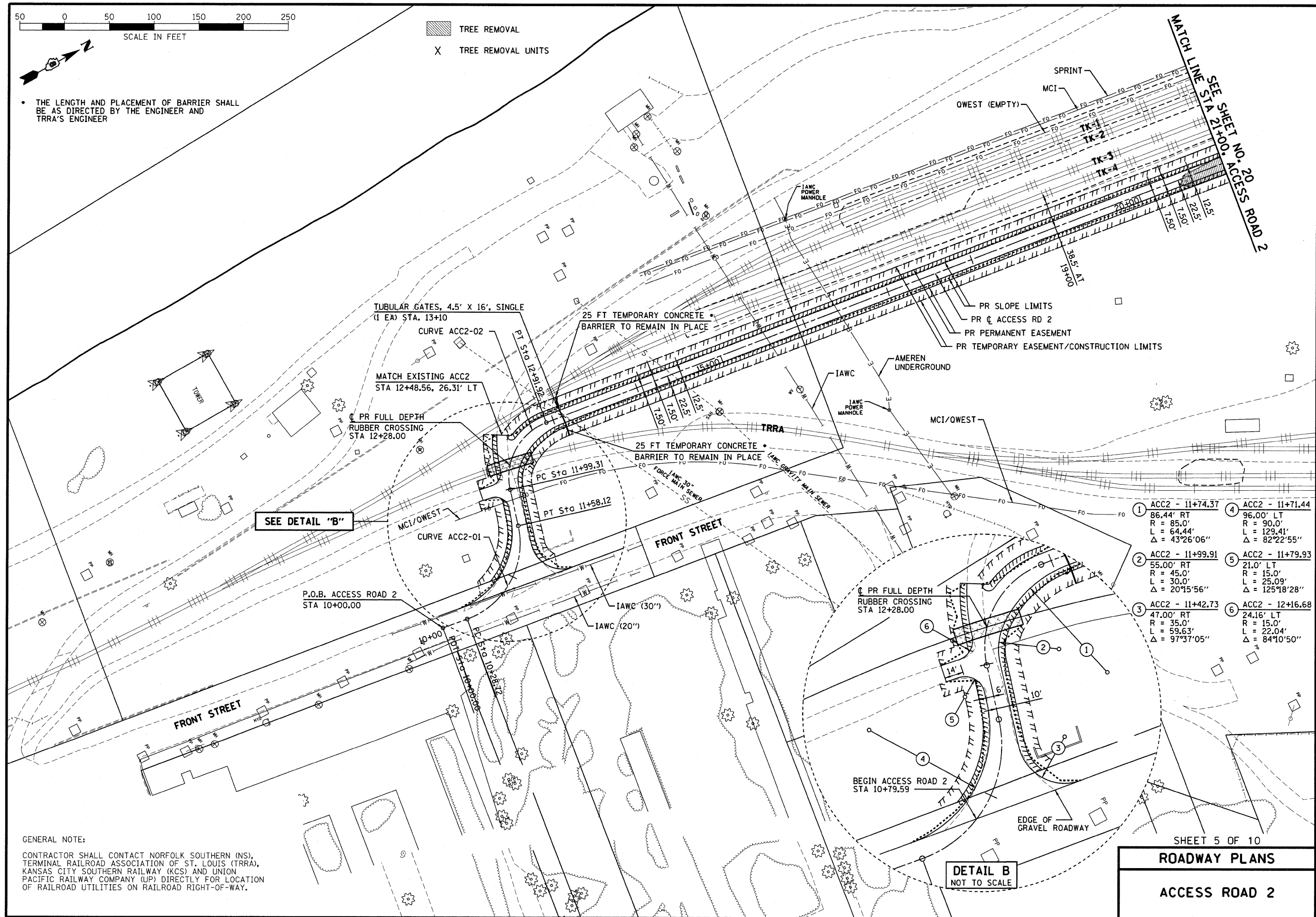
CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keever	
PLOT SCALE = 50,0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED	- HNTB
CHECKED	- CMT
DRAWN	- CMT / HNTB
REVISED	-
REVISED	-
REVISED	-
REVISED	-

PROPOSED PLAN ACCESS ROADS
 ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
 STA. 21 + 00 TO FRONT STREET

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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 SPRINGFIELD, IL 62702
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 ENGINEERING CORPORATION - 000631

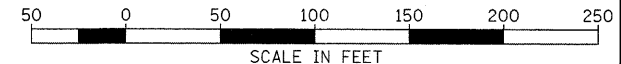
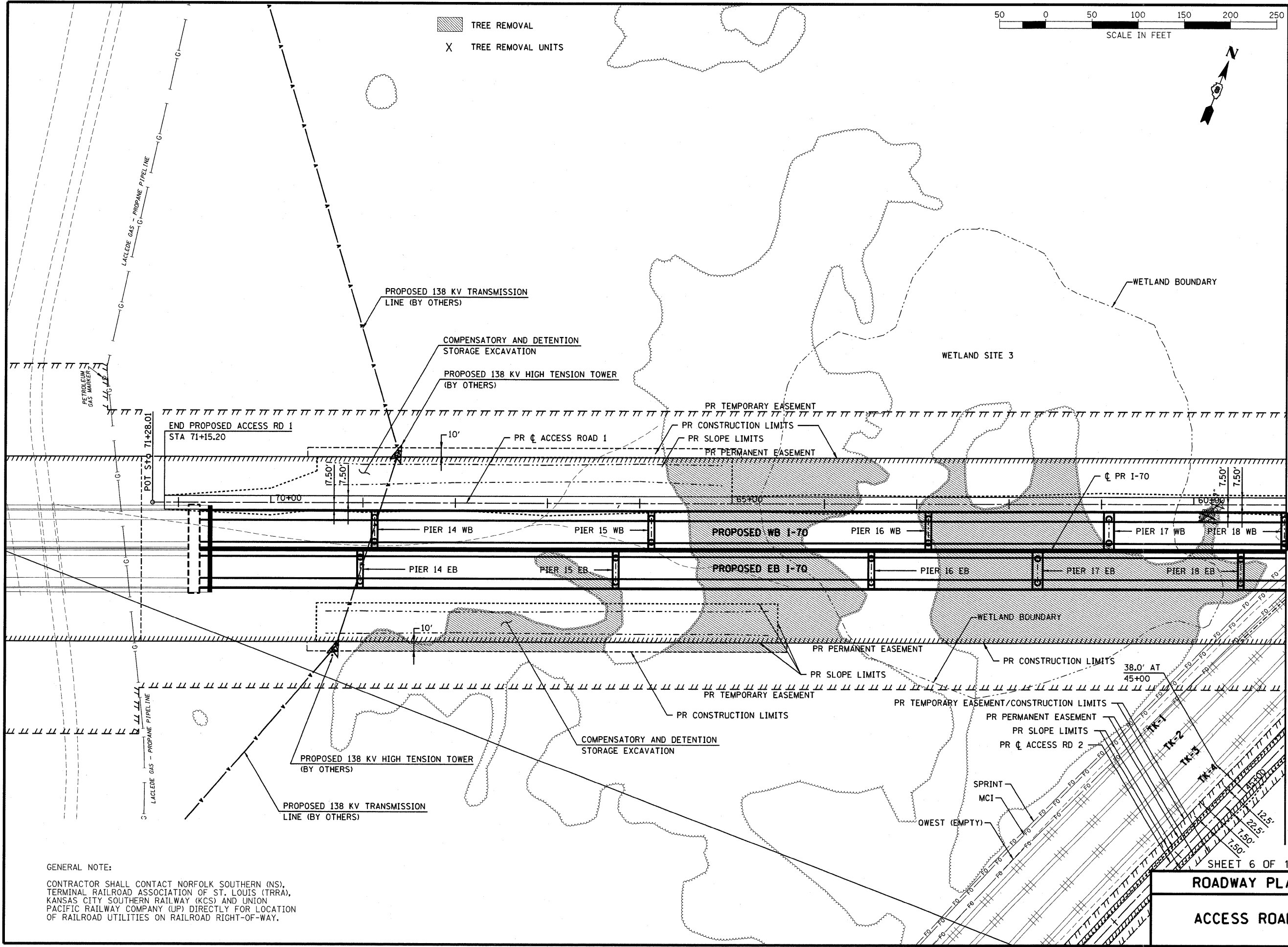


1	ACC2 - 11+74.37	4	ACC2 - 11+71.44
	86.44' RT		96.00' LT
	R = 85.0'		R = 90.0'
	L = 64.44'		L = 129.41'
	Δ = 43°26'06"		Δ = 82°22'55"
2	ACC2 - 11+99.91	5	ACC2 - 11+79.93
	55.00' RT		21.0' LT
	R = 45.0'		R = 15.0'
	L = 30.0'		L = 25.09'
	Δ = 20°15'56"		Δ = 125°18'28"
3	ACC2 - 11+42.73	6	ACC2 - 12+16.68
	47.00' RT		24.16' LT
	R = 35.0'		R = 15.0'
	L = 59.63'		L = 22.04'
	Δ = 97°37'05"		Δ = 84°10'50"

GENERAL NOTE:
 CONTRACTOR SHALL CONTACT NORFOLK SOUTHERN (NS), TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS (TRRA), KANSAS CITY SOUTHERN RAILWAY (KCS) AND UNION PACIFIC RAILWAY COMPANY (UP) DIRECTLY FOR LOCATION OF RAILROAD UTILITIES ON RAILROAD RIGHT-OF-WAY.

DETAIL B
 NOT TO SCALE

SHEET 5 OF 10
ROADWAY PLANS
ACCESS ROAD 2



CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

**PROPOSED PLAN
ACCESS ROADS**

ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STA. 59 +00 TO STA. 71 +00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

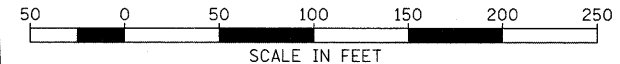
MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
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CMT
CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
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GENERAL NOTE:
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SHEET 6 OF 10
ROADWAY PLANS
ACCESS ROAD 1



CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50.0000' / IN.	
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DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

**PROPOSED PLAN
ACCESS ROADS**

ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STA. 47 + 00 TO STA. 56 + 50

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION**

HNTB

715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

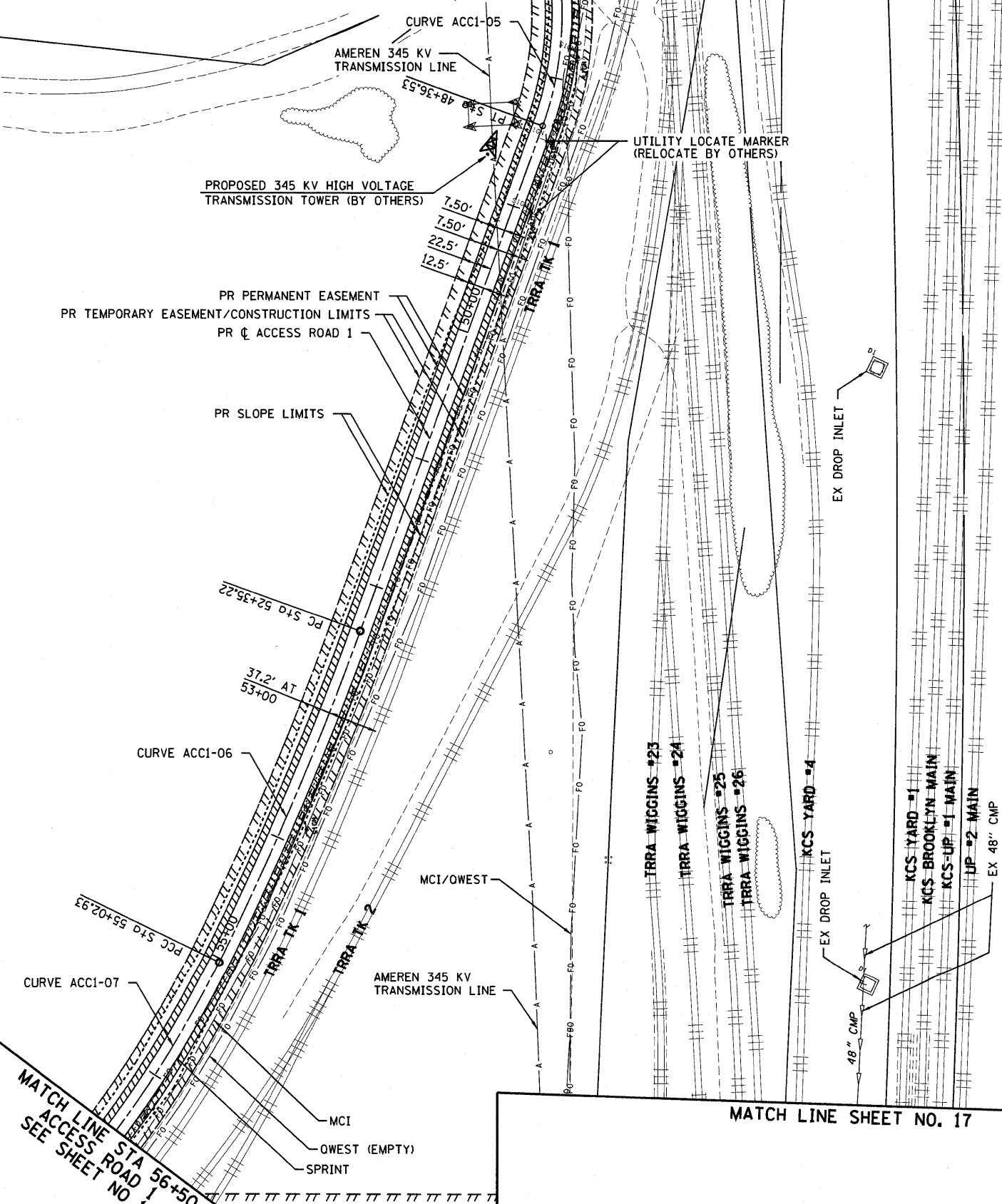
CMT

CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

GENERAL NOTE:
CONTRACTOR SHALL CONTACT NORFOLK SOUTHERN (NS),
TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS (TRRA),
KANSAS CITY SOUTHERN RAILWAY (KCS) AND UNION
PACIFIC RAILWAY COMPANY (UP) DIRECTLY FOR LOCATION
OF RAILROAD UTILITIES ON RAILROAD RIGHT-OF-WAY.

▨ TREE REMOVAL
X TREE REMOVAL UNITS

SEE SHEET NO. 24
ACCESS ROAD 1
MATCH LINE STA 47+00

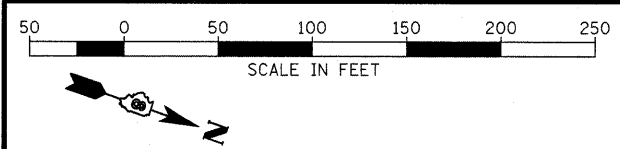


MATCH LINE STA 56+50
ACCESS ROAD 1
SEE SHEET NO 17

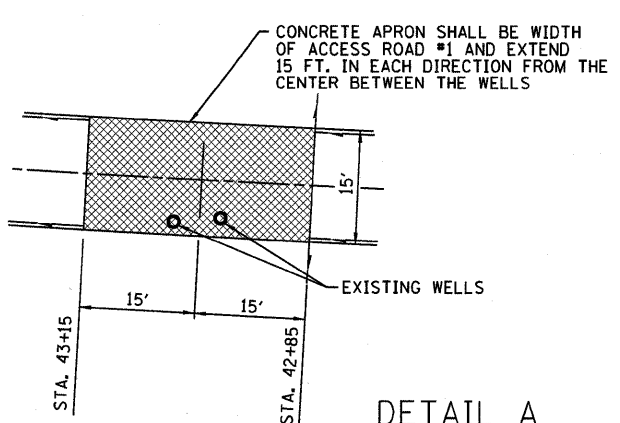
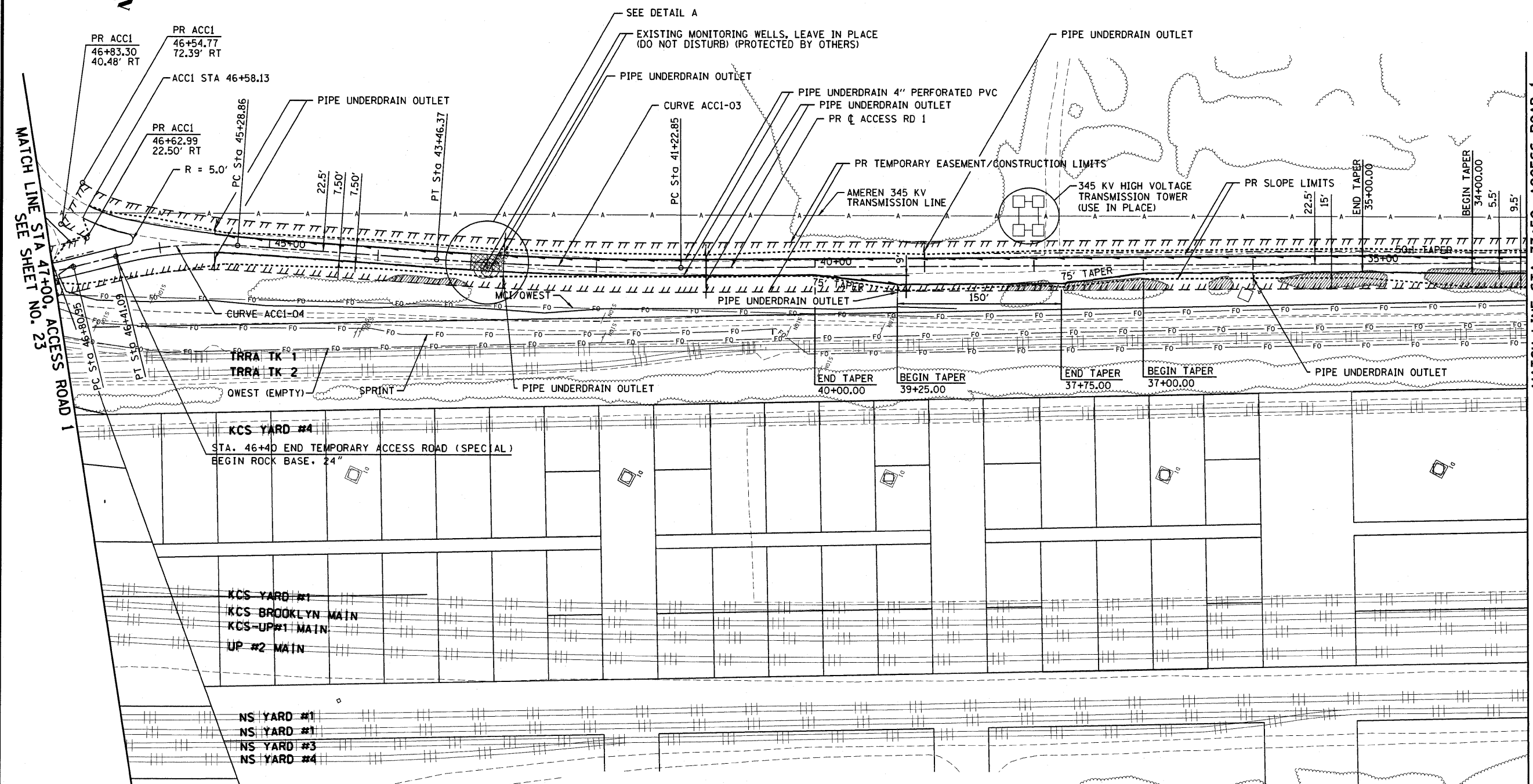
MATCH LINE SHEET NO. 17

SHEET 7 OF 10
ROADWAY PLANS

ACCESS ROAD 1



TREE REMOVAL
 TREE REMOVAL UNITS



NOTE:
 THE CONTRACTOR SHALL CONNECT TO THE UNDERDRAIN AND GEOMEMBRANE PROVIDED BY AMEREN'S CONTRACTOR. CARE SHALL BE TAKEN WHEN EXCAVATING ON BOTH ENDS OF THE CONCRETE APRON TO AVOID DAMAGING THE MATERIAL LEFT BY AMEREN'S CONTRACTOR FOR THESE CONNECTIONS. NO SEPARATE PAYMENT WILL BE MADE FOR MAKING THE CONNECTIONS. THE COST OF MAKING THESE CONNECTIONS SHALL BE INCLUDED IN THE PRICE OF THE TEMPORARY ACCESS ROAD (SPECIAL).

NOTE:
 CONCRETE APRON BY AMEREN OR AMEREN'S CONTRACTOR IS INTENDED TO BE IN PLACE PRIOR TO CONSTRUCTION ACTIVITIES ON ACCESS ROAD #1 IN THIS AREA.

GENERAL NOTE:
 CONTRACTOR SHALL CONTACT NORFOLK SOUTHERN (NS), TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS (TRRA), KANSAS CITY SOUTHERN RAILWAY (KCS) AND UNION PACIFIC RAILWAY COMPANY (UP) DIRECTLY FOR LOCATION OF RAILROAD UTILITIES ON RAILROAD RIGHT-OF-WAY.

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50,0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

PROPOSED PLAN
ACCESS ROADS
 ILLINOIS APPROACH STRUCTURE
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
 STA. 33 + 50 TO STA. 47 + 00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 MISSOURI HIGHWAYS
 AND TRANSPORTATION COMMISSION

HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY
 NO. 001270

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631

SHEET 8 OF 10
ROADWAY PLANS
ACCESS ROAD 1

50 0 50 100 150 200 250

SCALE IN FEET



TREE REMOVAL

X TREE REMOVAL UNITS

CONTRACT NO. 76D61

F.A. ROUTE SECTION

999 82-1B-2

FED. AID PROJECT ILLINOIS

COUNTY ST. CLAIR

USER NAME = John Keeven

PLOT SCALE = 50.0000' / IN.

PLOT DATE = 4/14/2010

DESIGNED - HNTB

CHECKED - CMT

DRAWN - CMT / HNTB

REVISED -

REVISED -

REVISED -

REVISED -

PROPOSED PLAN

ACCESS ROADS

ILLINOIS APPROACH STRUCTURE

FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STA. 20 + 00 TO STA. 33 + 50

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS

AND TRANSPORTATION COMMISSION

715 KIRK DRIVE

KANSAS CITY, MO 64105

TELEPHONE (816) 472-1201

CERTIFICATE OF AUTHORITY

NO. 001270

CMT

CRAWFORD, MURPHY & TILLY, INC.

2750 WEST WASHINGTON STREET

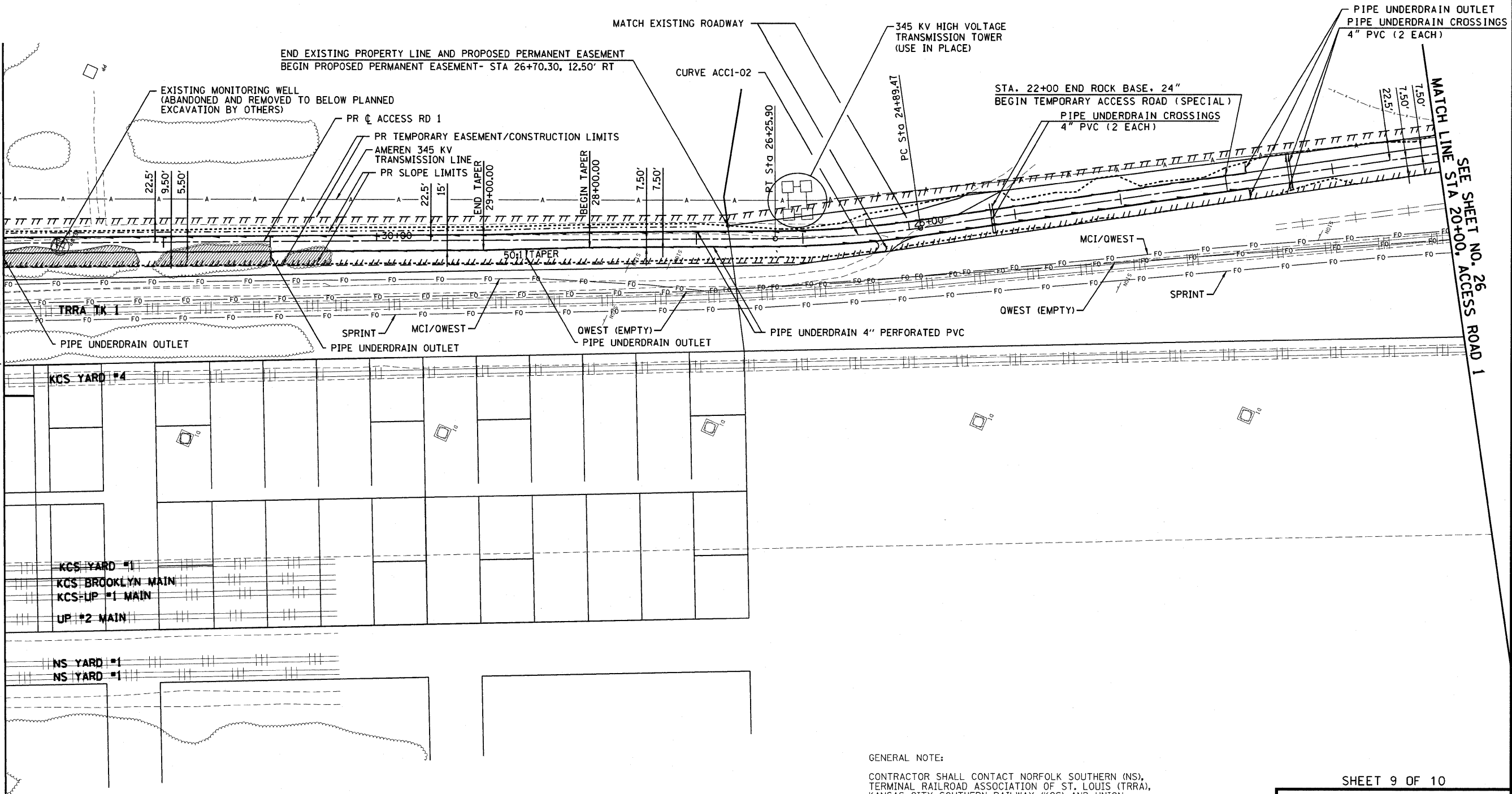
SPRINGFIELD, IL 62702

TELEPHONE (217) 787-8050

ENGINEERING CORPORATION - 000631

SEE SHEET NO. 24
MATCH LINE STA 33+50, ACCESS ROAD 1

SEE SHEET NO. 26
MATCH LINE STA 20+00, ACCESS ROAD 1



GENERAL NOTE:

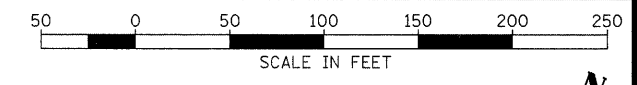
CONTRACTOR SHALL CONTACT NORFOLK SOUTHERN (NS), TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS (TRRA), KANSAS CITY SOUTHERN RAILWAY (KCS) AND UNION PACIFIC RAILWAY COMPANY (UP) DIRECTLY FOR LOCATION OF RAILROAD UTILITIES ON RAILROAD RIGHT-OF-WAY.

SHEET 9 OF 10

ROADWAY PLANS

ACCESS ROAD 1

SHEET 25 OF 81



GENERAL NOTE:
 CONTRACTOR SHALL CONTACT NORFOLK SOUTHERN (NS),
 TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS (TRRA),
 KANSAS CITY SOUTHERN RAILWAY (KCS) AND UNION
 PACIFIC RAILWAY COMPANY (UP) DIRECTLY FOR LOCATION
 OF RAILROAD UTILITIES ON RAILROAD RIGHT-OF-WAY.

TREE REMOVAL
 TREE REMOVAL UNITS

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50,0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

PROPOSED PLAN INTERSTATE 70	ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE	STA 95+00 TO STA 108+00

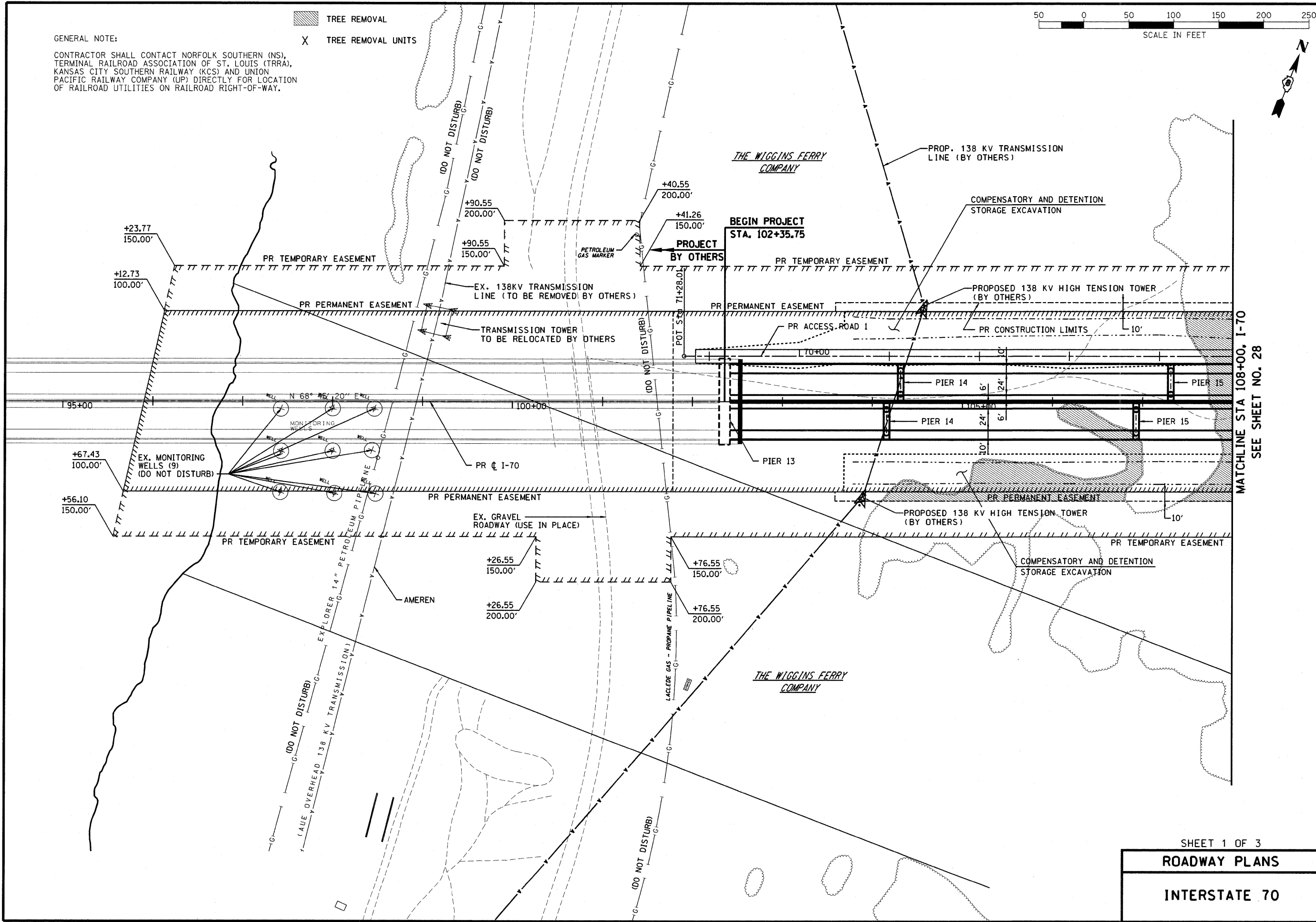
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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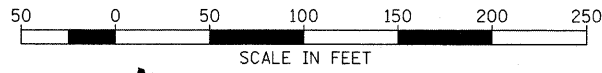
HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY
 NO. 001270

CMT
 CRANFORD, MURPHY & TILLY, INC.
 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631

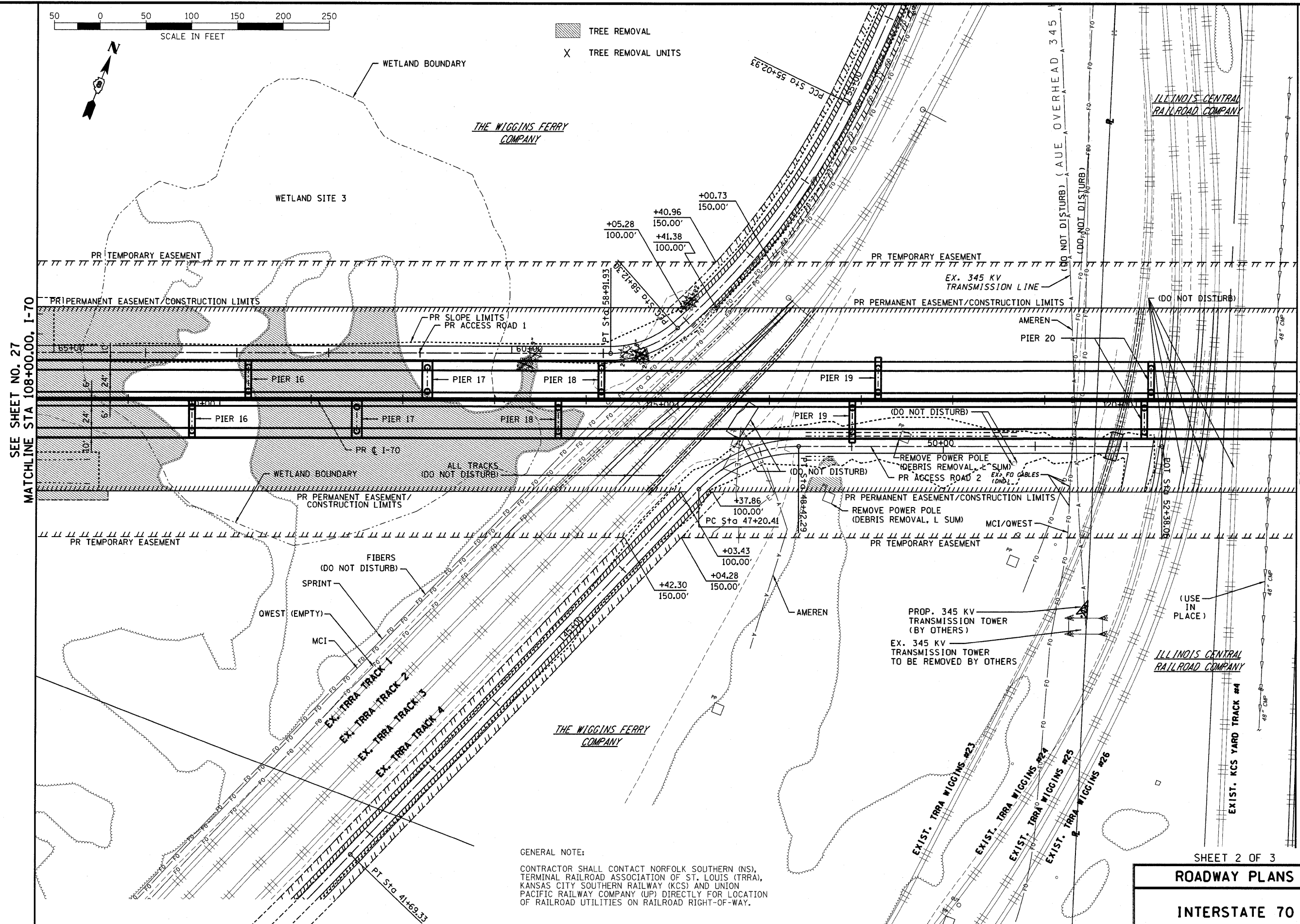
SHEET 1 OF 3
 ROADWAY PLANS
 INTERSTATE 70

SHEET 27 OF 81





TREE REMOVAL
 TREE REMOVAL UNITS



SEE SHEET NO. 27
MATCHLINE STA 108+00.00, I-70

MATCHLINE STA 121+75.00, I-70
SEE SHEET NO. 29

GENERAL NOTE:
 CONTRACTOR SHALL CONTACT NORFOLK SOUTHERN (NS),
 TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS (TRRA),
 KANSAS CITY SOUTHERN RAILWAY (KCS) AND UNION
 PACIFIC RAILWAY COMPANY (UP) DIRECTLY FOR LOCATION
 OF RAILROAD UTILITIES ON RAILROAD RIGHT-OF-WAY.

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keaven	
PLOT SCALE = 50,000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

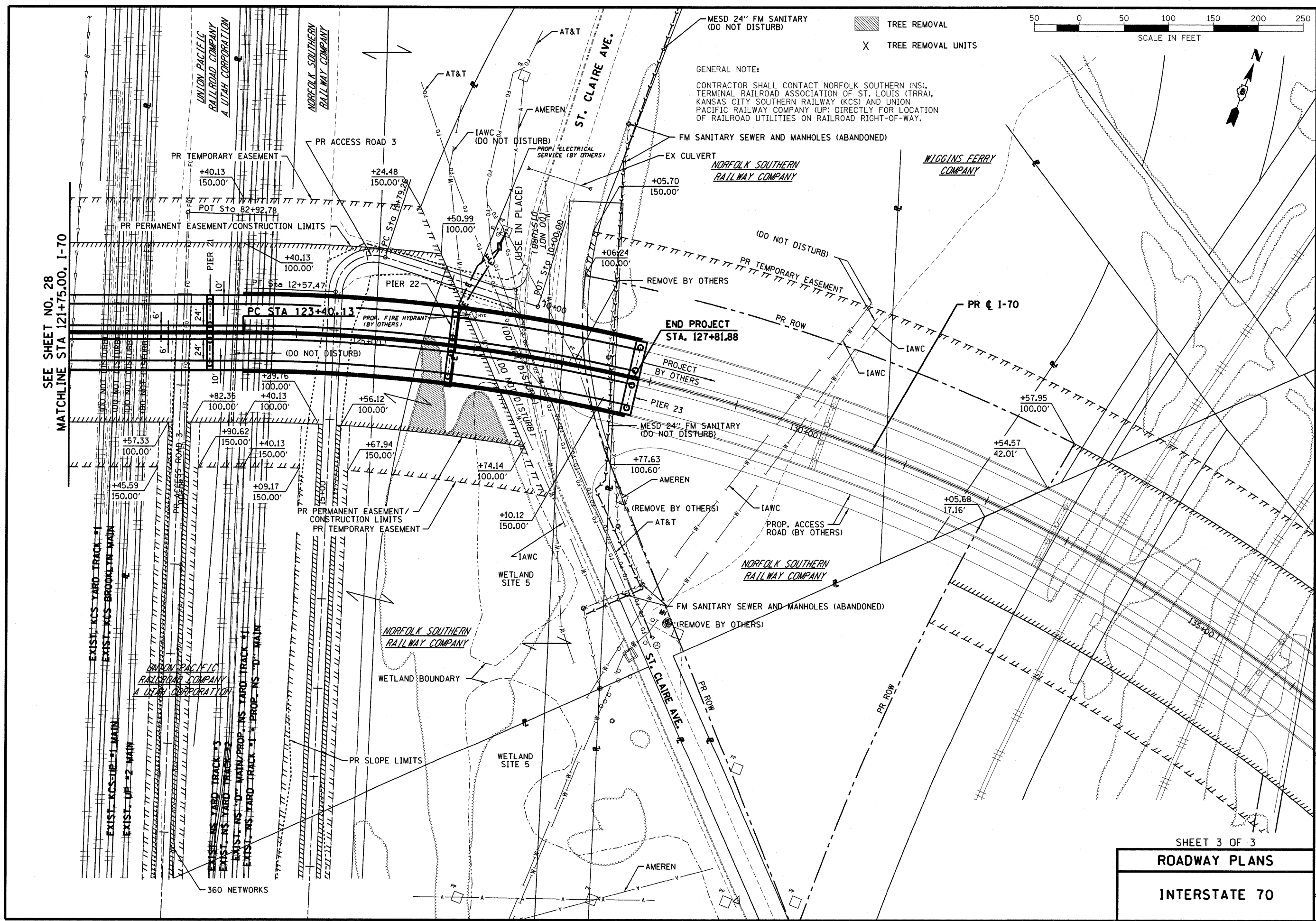
PROPOSED PLAN	INTERSTATE 70
ILLINOIS APPROACH STRUCTURE	FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
STA. 108 + 00 TO STA. 121 + 75	

STATE OF ILLINOIS	MISSOURI HIGHWAYS
DEPARTMENT OF TRANSPORTATION	AND TRANSPORTATION COMMISSION

HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY
 NO. 001270

CMT
 CRANFORD, MURPHY & TILLY, INC.
 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631

SHEET 2 OF 3
ROADWAY PLANS
INTERSTATE 70



CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keaven	
PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

GENERAL NOTE:
 CONTRACTOR SHALL CONTACT NORFOLK SOUTHERN (NS),
 TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS (TRRA),
 KANSAS CITY SOUTHERN RAILWAY (KCS) AND UNION
 PACIFIC RAILWAY COMPANY (UP) DIRECTLY FOR LOCATION
 OF RAILROAD UTILITIES ON RAILROAD RIGHT-OF-WAY.

SEE SHEET NO. 28
 MATCHLINE STA 121+75.00, I-70

PROPOSED PLAN	INTERSTATE 70
ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE	
STA 121 + 75 TO STA 127 + 81.88	

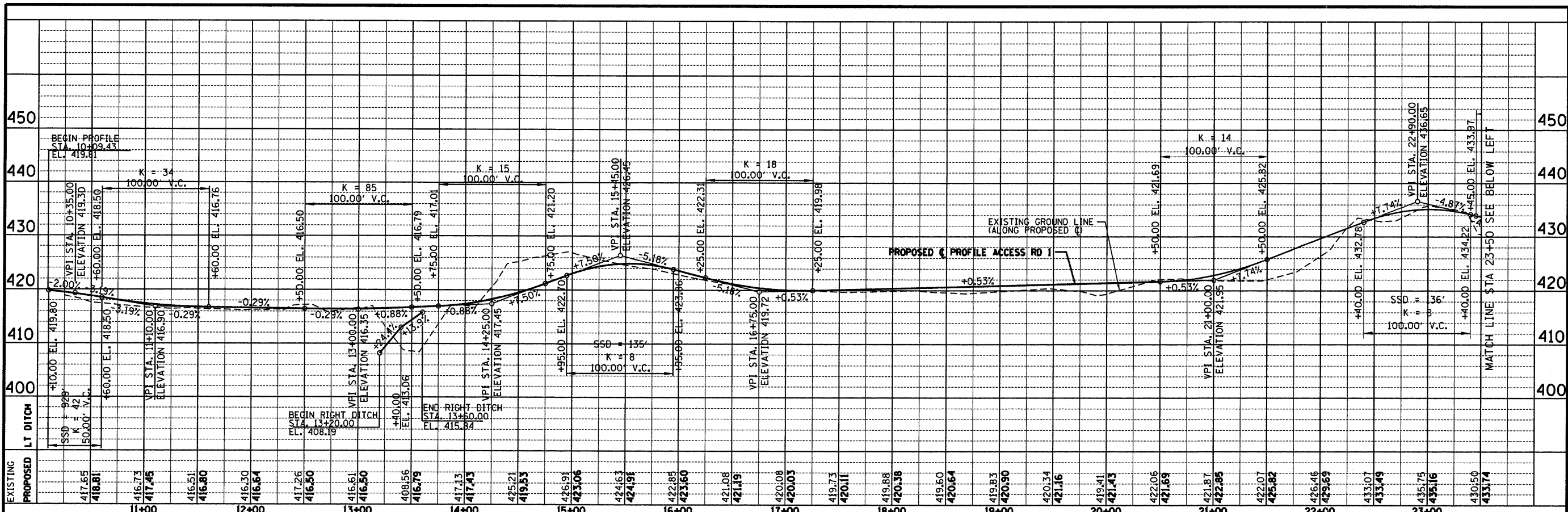
STATE OF ILLINOIS	DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION	

HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY
 NO. 001270

CMT
 CRANFORD, MURPHY & TILLY, INC.
 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631

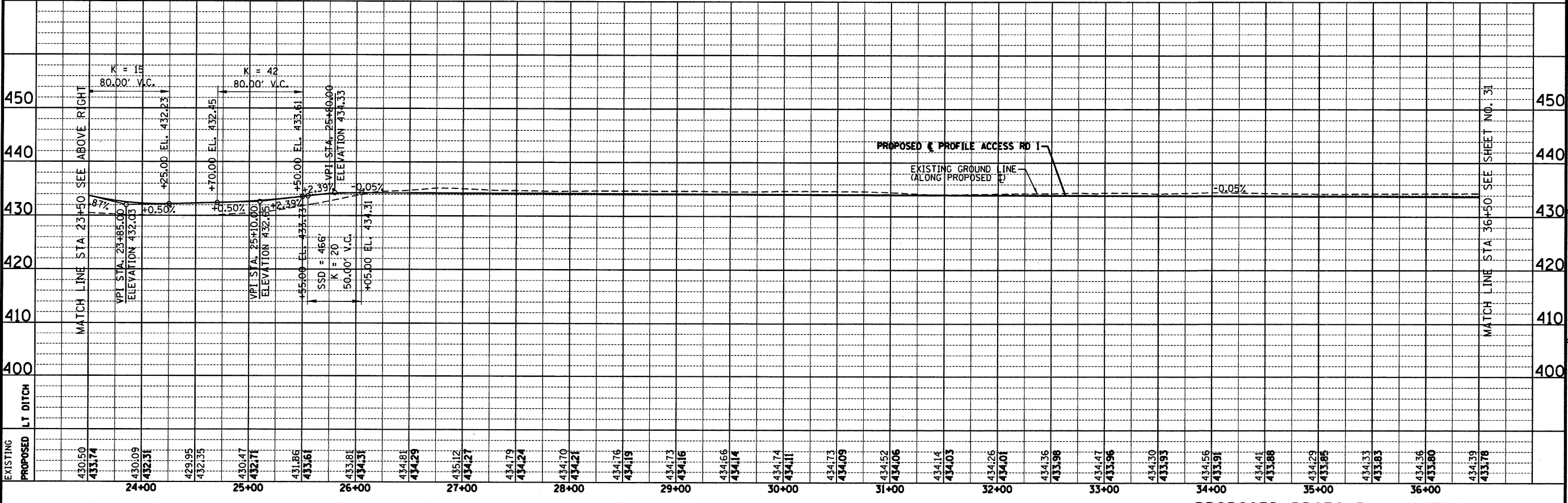
SHEET 3 OF 3
 ROADWAY PLANS
 INTERSTATE 70

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EXISTING	PROPOSED
417.65	418.81
416.73	417.45
416.51	416.80
416.30	416.64
417.26	416.50
416.61	416.50
408.56	416.79
417.13	417.43
419.21	419.53
426.91	423.06
424.63	424.91
422.85	423.60
421.08	421.39
420.08	420.03
419.73	420.11
419.88	420.38
419.60	420.64
419.83	420.90
420.34	421.16
419.41	421.43
422.06	421.69
421.87	422.85
422.07	425.82
426.46	429.69
433.07	433.49
435.75	435.16
430.50	433.74

PROPOSED PROFILE - ACCESS ROAD 1



EXISTING	PROPOSED
430.50	433.74
430.09	432.31
429.95	432.35
430.47	432.71
431.86	433.61
433.81	434.31
434.29	434.29
435.12	434.27
434.79	434.24
434.70	434.21
434.76	434.19
434.73	434.16
434.66	434.14
434.74	434.11
434.73	434.09
434.52	434.06
434.14	434.03
434.26	434.01
434.36	433.98
434.47	433.96
434.30	433.93
434.56	433.91
434.41	433.88
434.29	433.85
434.33	433.83
434.36	433.80
434.39	433.78

PROPOSED PROFILE - ACCESS ROAD 1

CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

**ROADWAY PROFILES
ACCESS ROADS**

ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

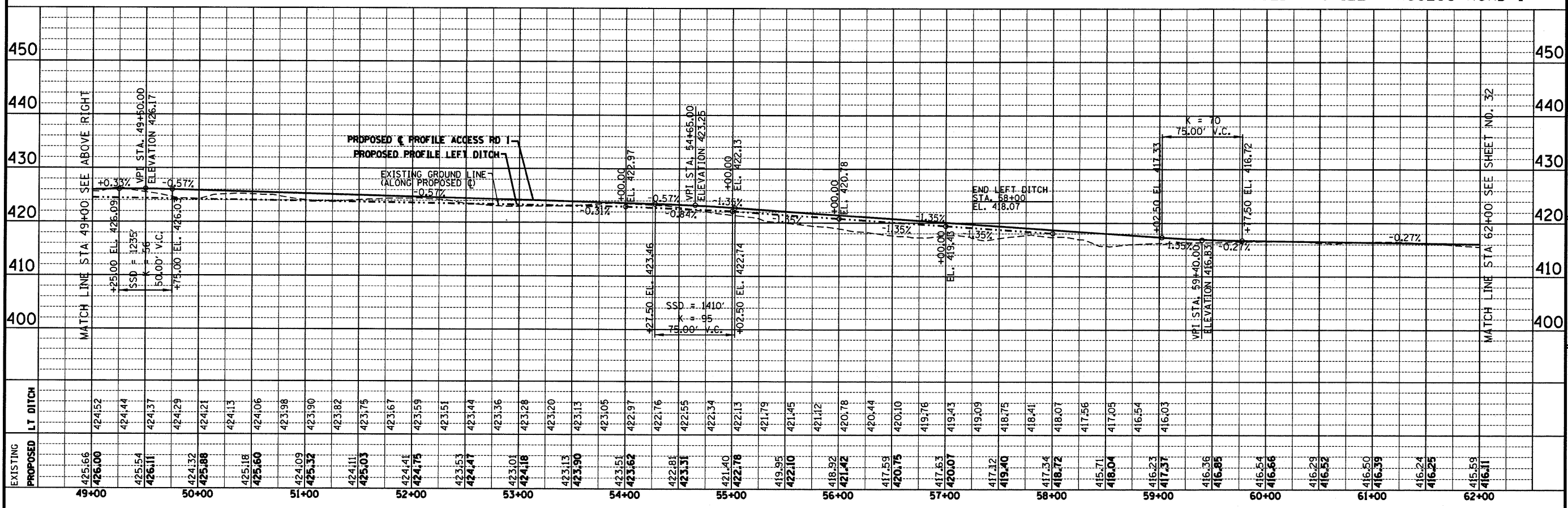
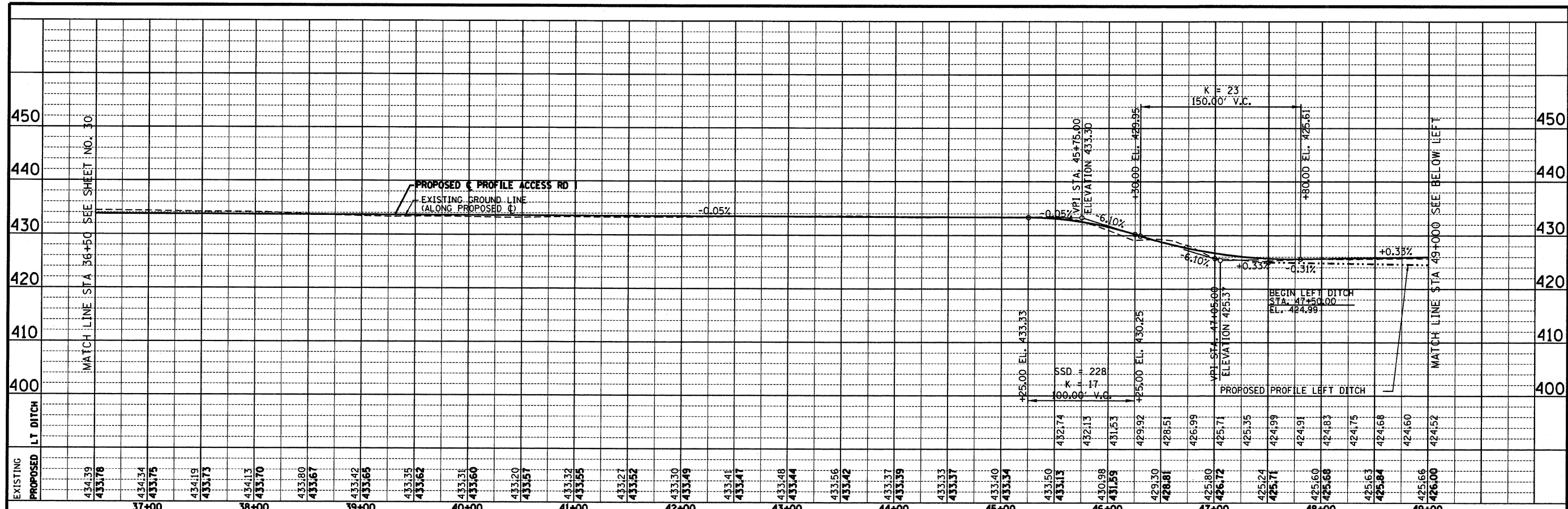
STA 10 + 09.43 TO STA 36 + 50

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CMT
CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631



CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

**ROADWAY PROFILES
ACCESS ROADS**

ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STA 36+50 TO STA 62+00

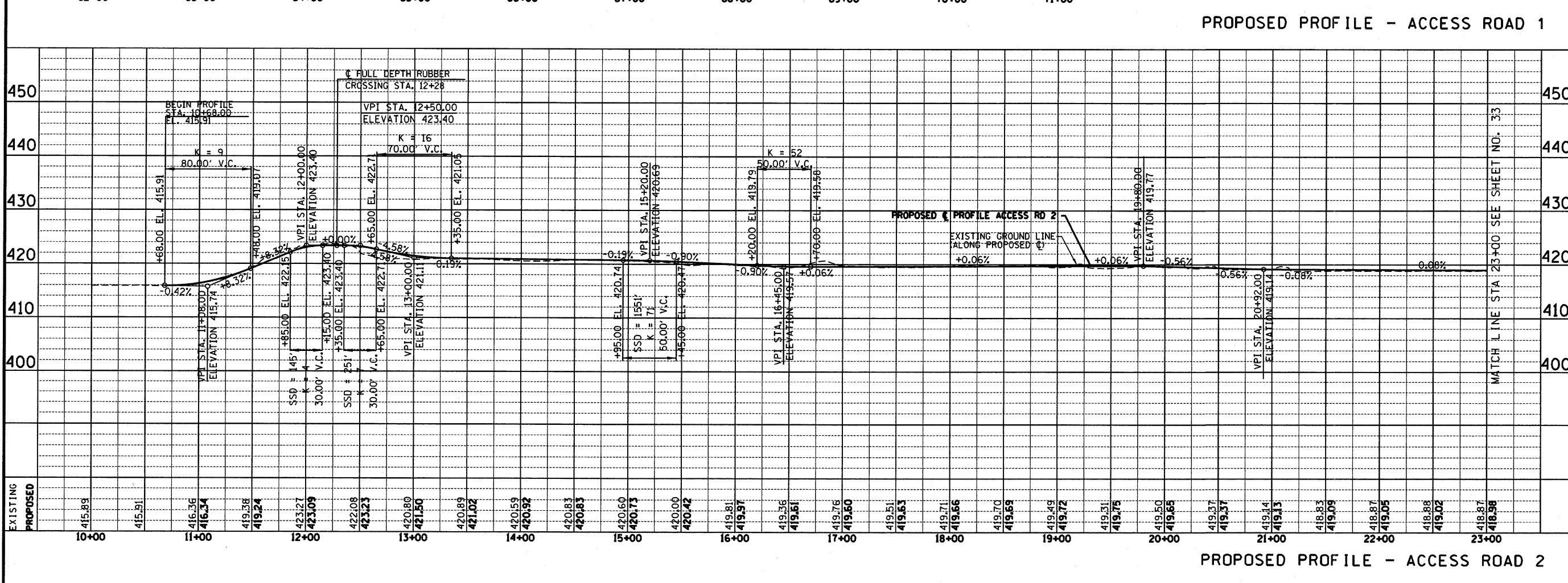
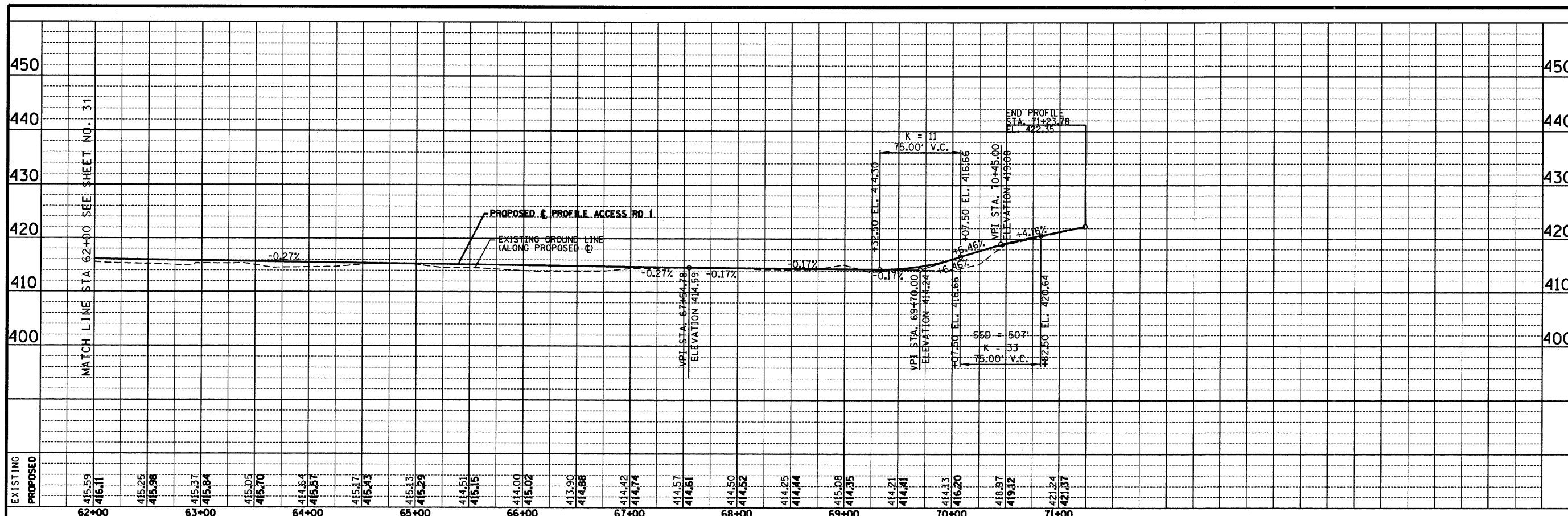
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

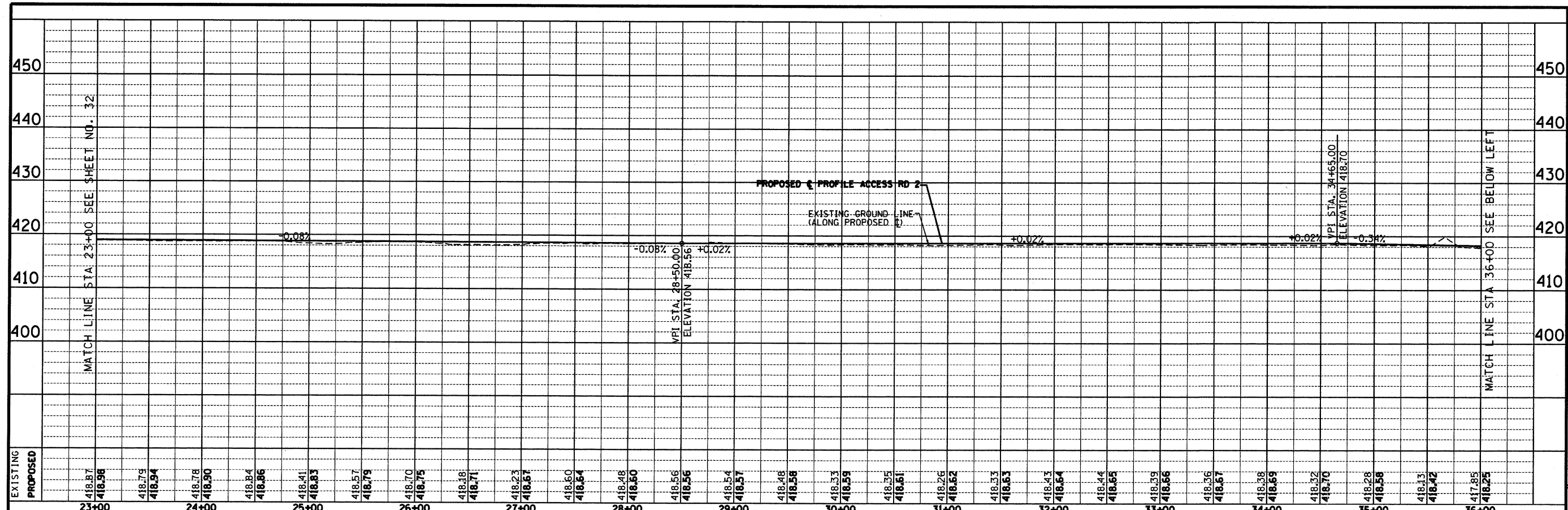
HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CMT
CRANFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

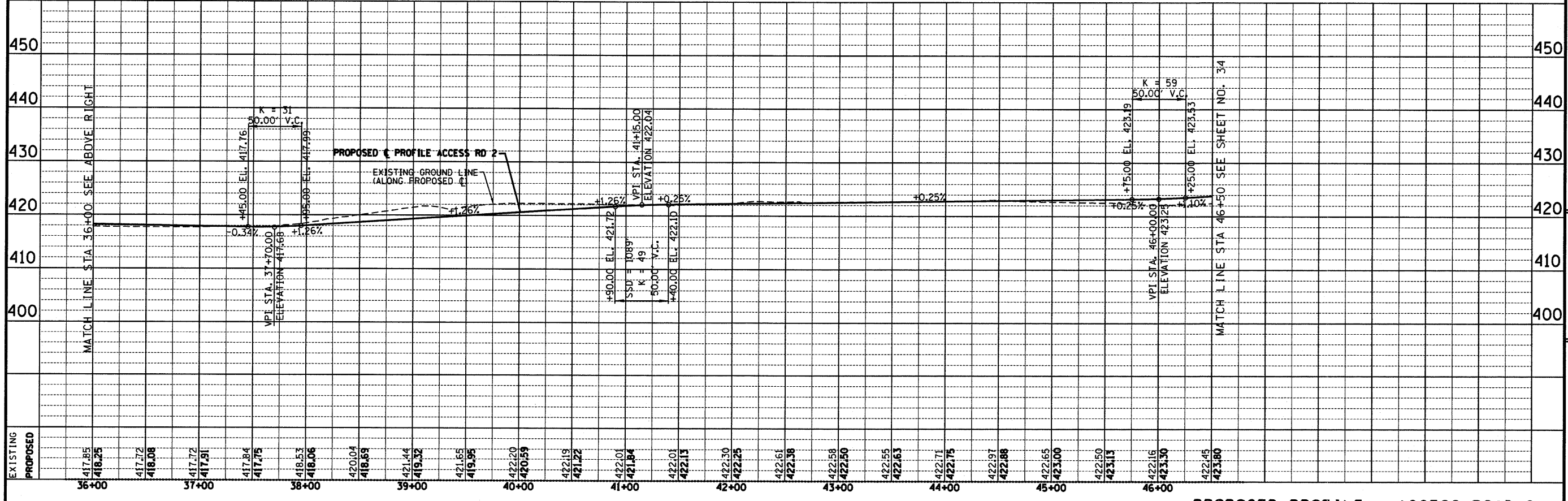
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CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT ILLINOIS	
COUNTY	ST. CLAIR
USER NAME = John Keaven	
PLOT SCALE = 50,000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	
ROADWAY PROFILES	
ACCESS ROADS	
ILLINOIS APPROACH STRUCTURE	
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE	
STA 62+00 TO STA 71+23.78	
STA 10+68 TO STA 23+00	
STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	
MISSOURI HIGHWAYS	
AND TRANSPORTATION COMMISSION	
HNTB	
715 KIRK DRIVE KANSAS CITY, MO 64105 TELEPHONE (816) 472-1201 CERTIFICATE OF AUTHORITY NO. 001270	
CMT	
CRANFORD, MURPHY & TILLY, INC. 2750 WEST WASHINGTON STREET SPRINGFIELD, IL 62702 TELEPHONE (217) 787-8050 ENGINEERING CORPORATION - 000631	
SHEET 32 OF 81	



PROPOSED PROFILE - ACCESS ROAD 2



PROPOSED PROFILE - ACCESS ROAD 2

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

**ROADWAY PROFILES
ACCESS ROADS**

ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

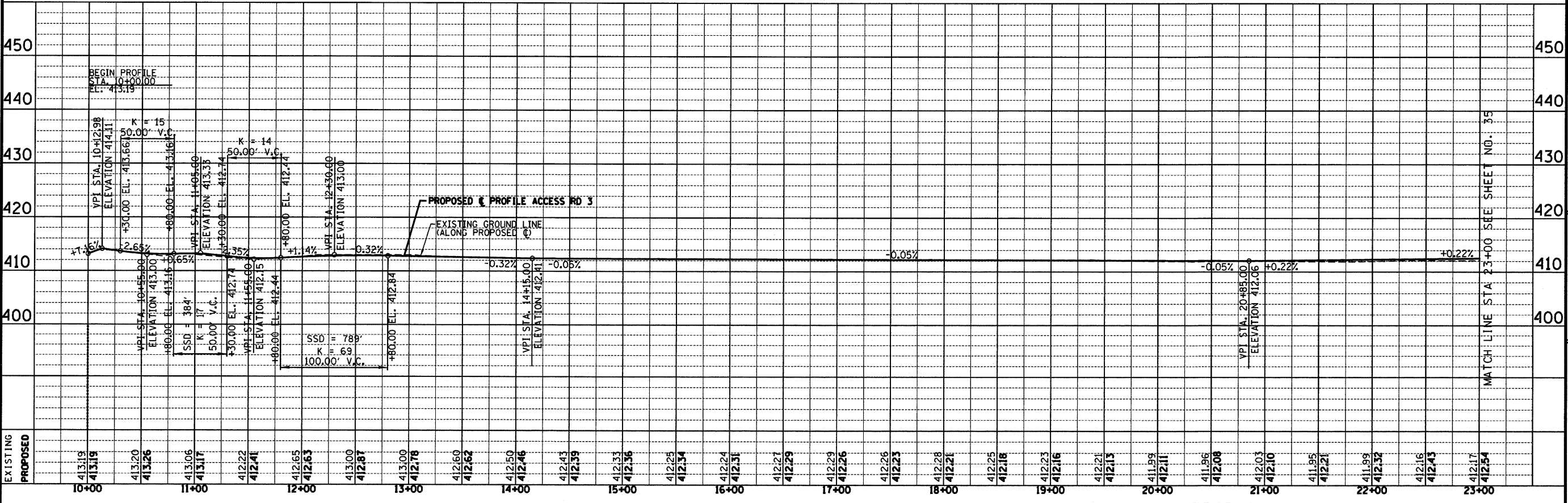
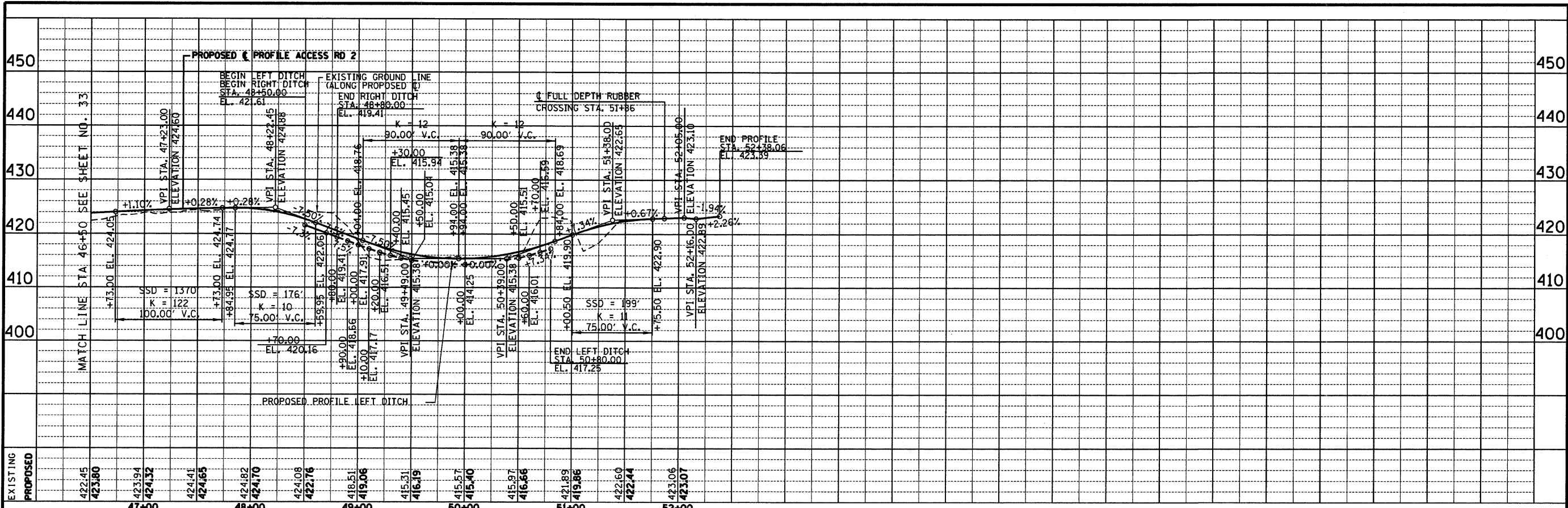
STA 23+00 TO STA 46+50

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CMT
CRANFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631



CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Kveen	
PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

**ROADWAY PROFILES
ACCESS ROADS**

ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

**STA 46+50 TO STA 52+38.06
STA 10+00 TO STA 23+00**

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

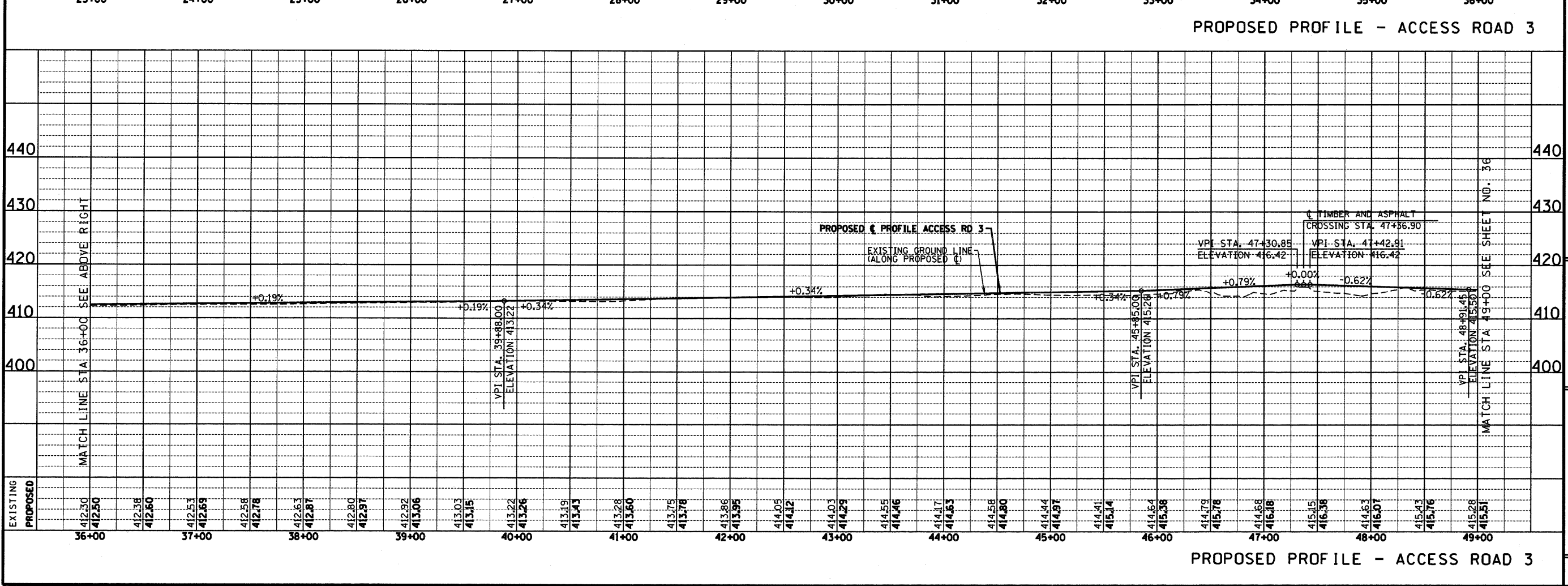
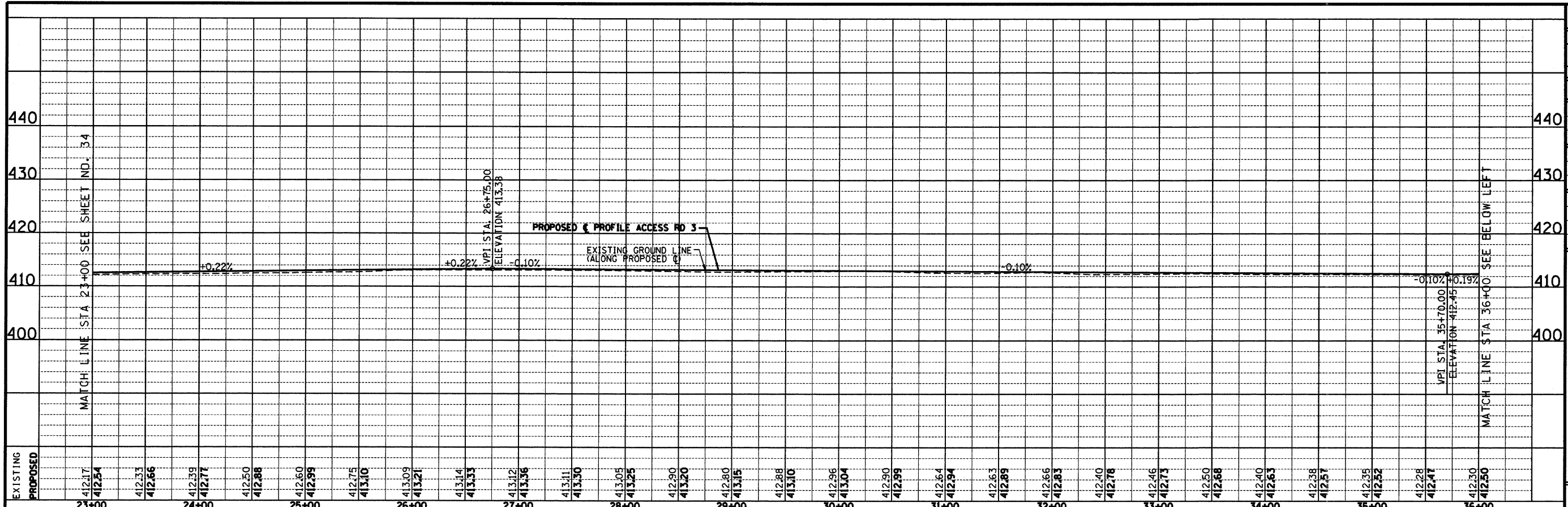
**MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION**

HNTB

715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CMT

CRANFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631



CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keever	
PLOT SCALE = 50.00' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

ROADWAY PROFILES
ACCESS ROADS

ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STA 23+00 TO STA 49+00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CMT
CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

SHEET 35 OF 81

CONTRACT NO. 76D61

F.A. ROUTE 999 SECTION 82-1B-2

FED. AID PROJECT ILLINOIS COUNTY ST. CLAIR

USER NAME = John Keeven PLOT SCALE = 50,0000' / IN. PLOT DATE = 4/14/2010

DESIGNED - HNTB CHECKED - CMT DRAWN - CMT / HNTB

REVISED - REVISED - REVISED - REVISED -

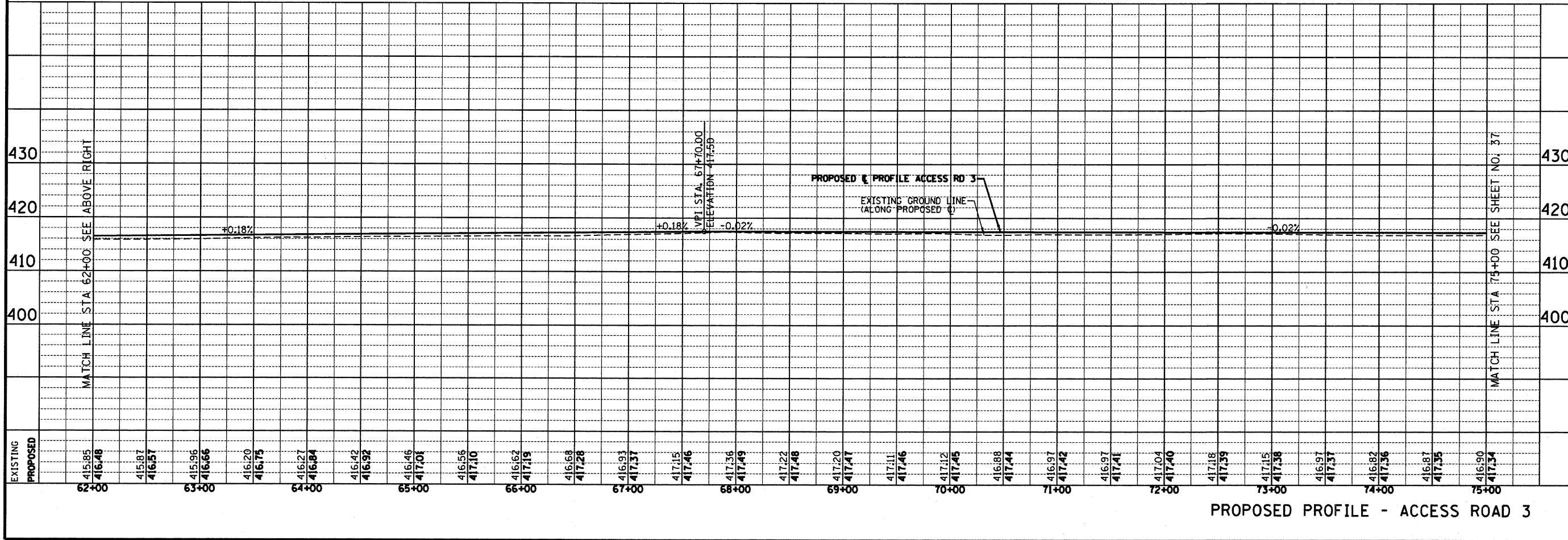
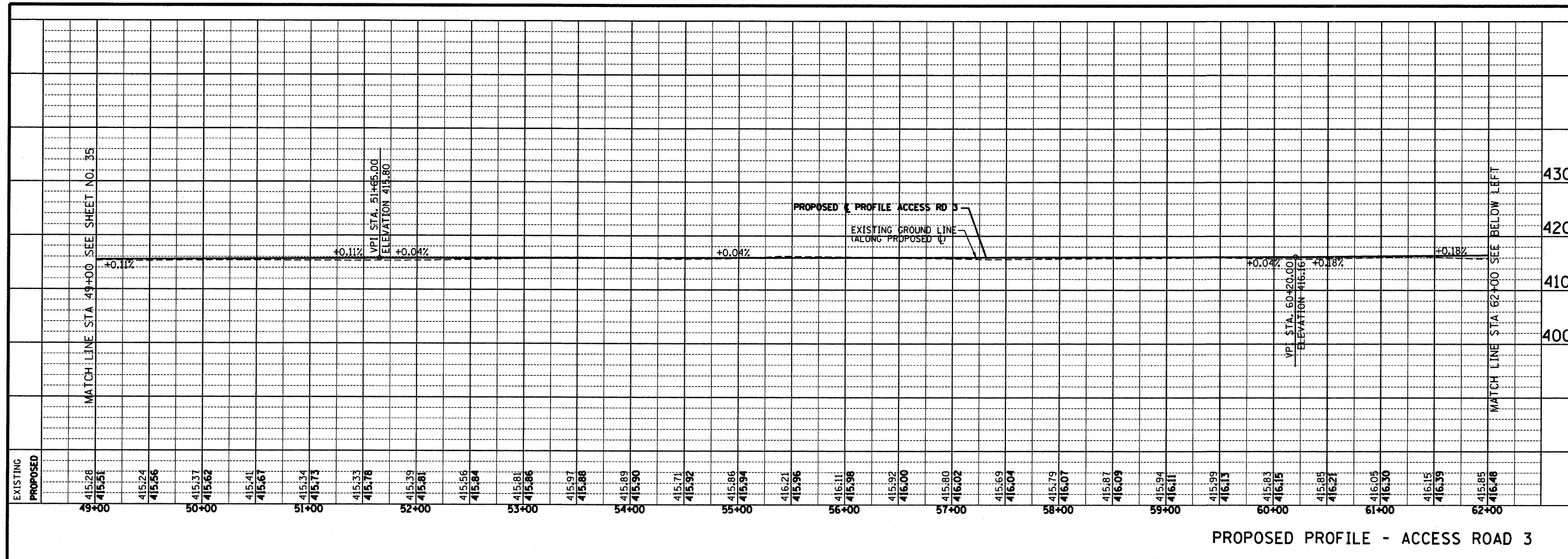
ROADWAY PROFILES ACCESS ROADS ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE STA 49+00 TO STA 75+00

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

HNTB 715 KIRK DRIVE KANSAS CITY, MO 64105 TELEPHONE (816) 472-1201 CERTIFICATE OF AUTHORITY NO. 001270

CMT CRAWFORD, MURPHY & TILLY, INC. 2750 WEST WASHINGTON STREET SPRINGFIELD, IL 62702 TELEPHONE (217) 787-8050 ENGINEERING CORPORATION - 000631

SHEET 36 OF 81



CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50,0000' / IN.	
PLOT DATE = 4/14/2010	

DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	

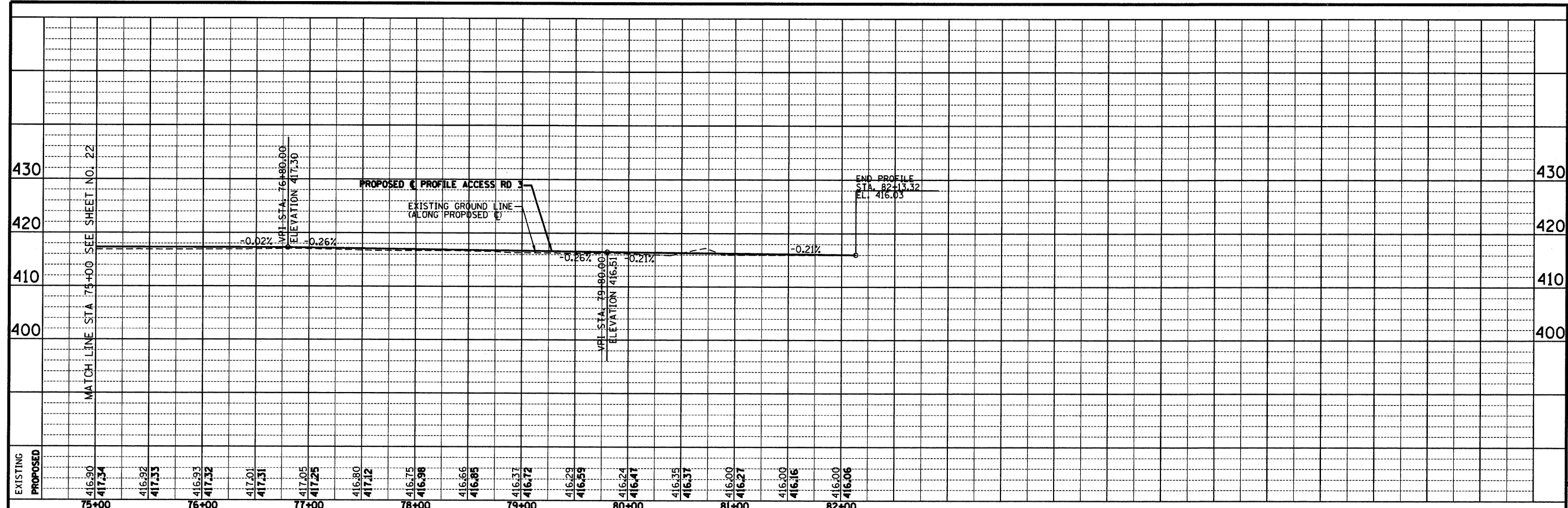
ROADWAY PROFILES ACCESS ROADS	ILLINOIS APPROACH STRUCTURE
	FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
	STA 75+00 TO STA 82+13.32

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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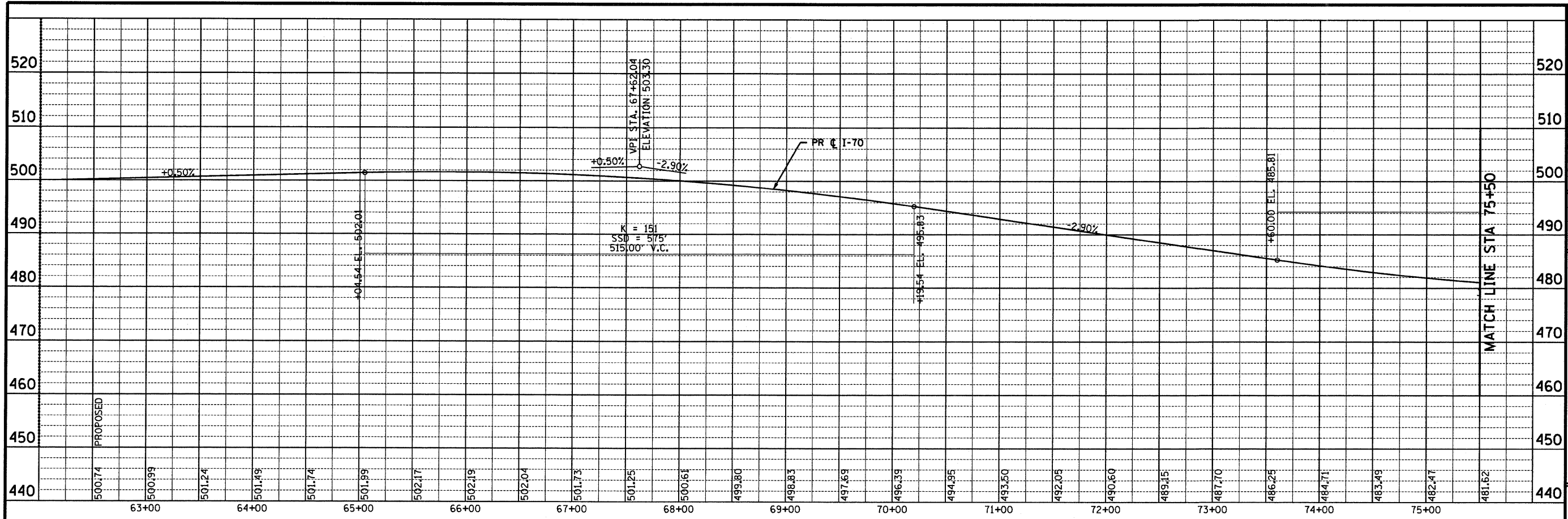
HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CMT
CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

SHEET 37 OF 81

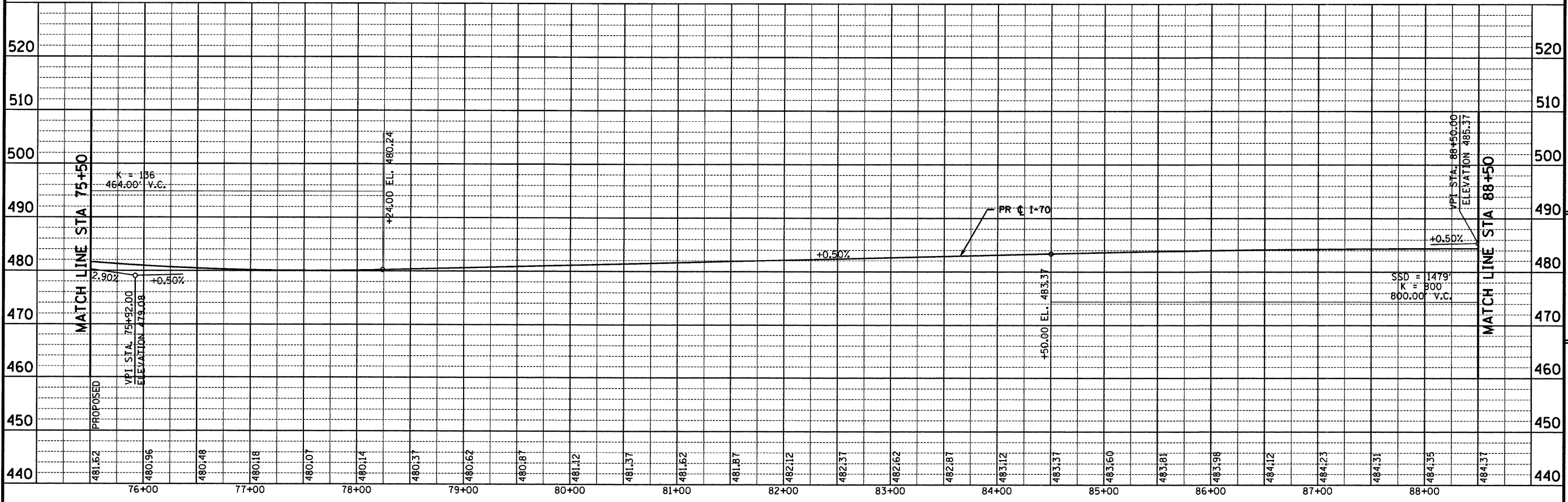


PROPOSED PROFILE - ACCESS ROAD 3



"THIS SHEET IS FOR INFORMATION ONLY"

PROPOSED PROFILE I-70



PROPOSED PROFILE I-70

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50,0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

ROADWAY PROFILES
INTERSTATE 70

ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STA 62+50 TO STA 88+50

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

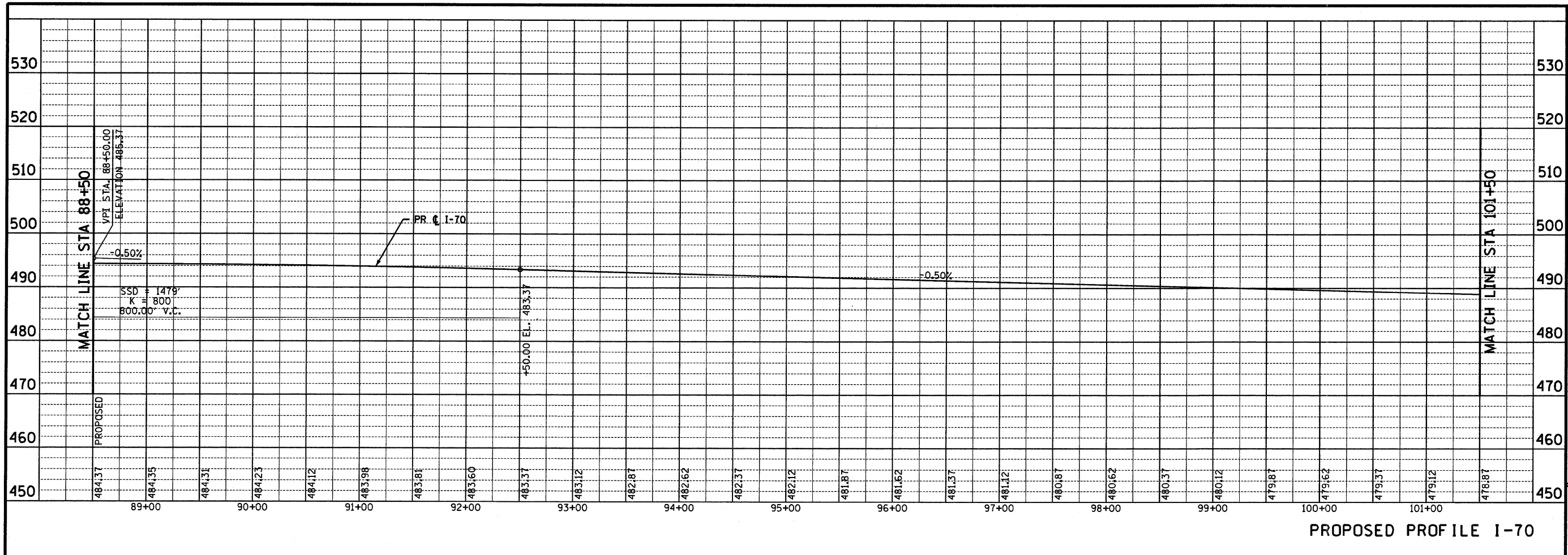
MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

HNTB

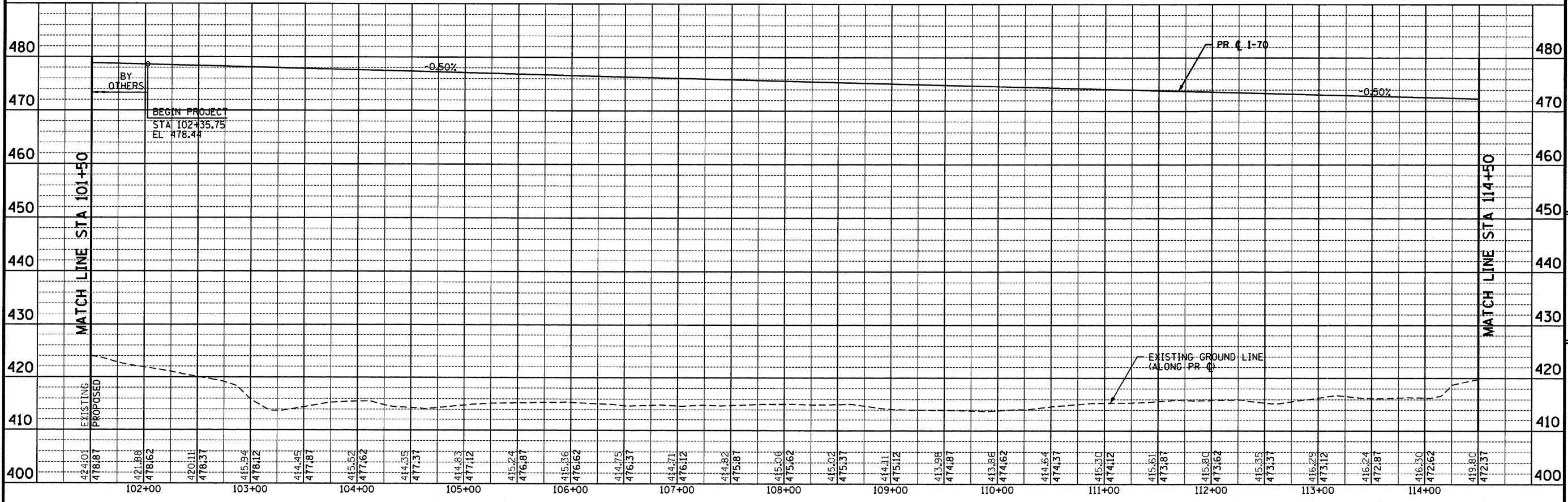
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CMT

CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631



PROPOSED PROFILE I-70



PROPOSED PROFILE I-70

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50,0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

ROADWAY PROFILES
INTERSTATE 70

ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

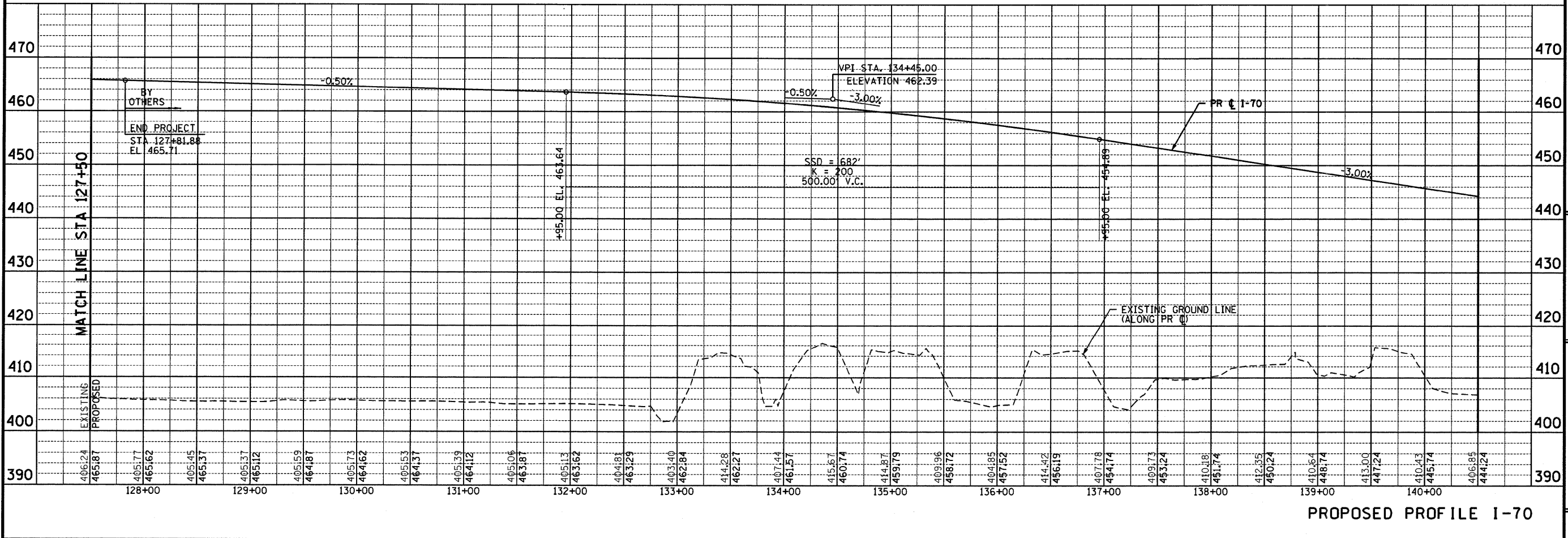
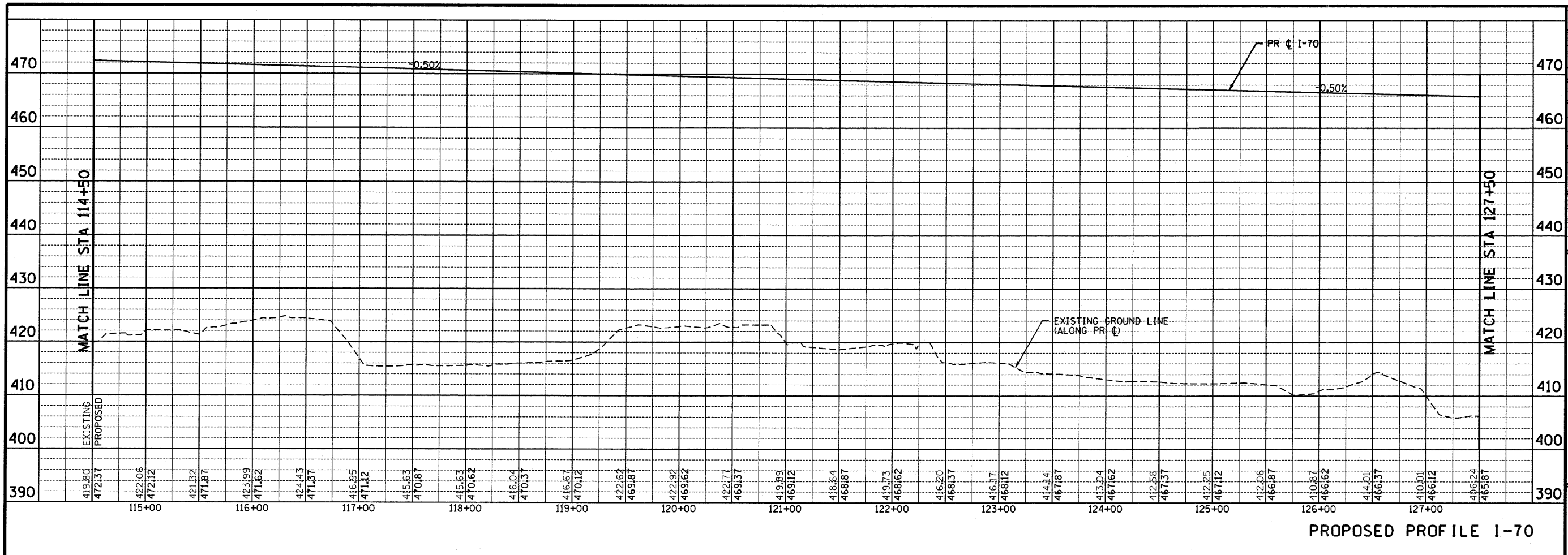
STA 88+50 TO STA 114+50

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
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CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

ROADWAY PROFILES
INTERSTATE 70

ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STA 114+50 TO STA 140+50

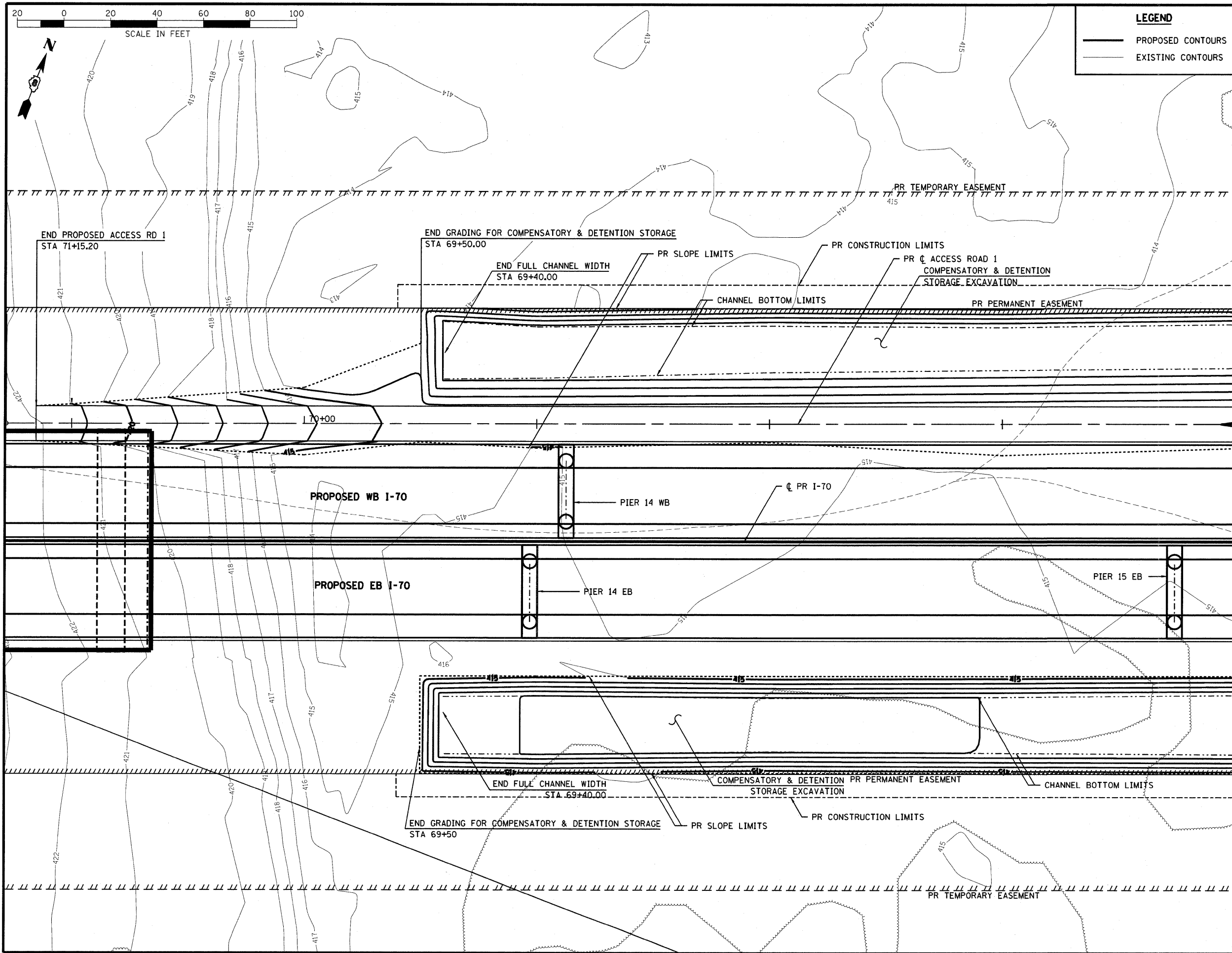
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CMT
CRANFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

SHEET 40 OF 81



MATCH LINE STA 66+00
SEE SHEET NO. 42

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 20,0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

GRADING PLAN
ACCESS ROAD DETENTION
 ILLINOIS APPROACH STRUCTURE
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
 STA. 66+00 TO STA. 71+15.20

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 MISSOURI HIGHWAYS
 AND TRANSPORTATION COMMISSION

HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY
 NO. 001270

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631

CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR

USER NAME = John Keaven
 PLOT SCALE = 20.0000' / IN.
 PLOT DATE = 4/14/2010

DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

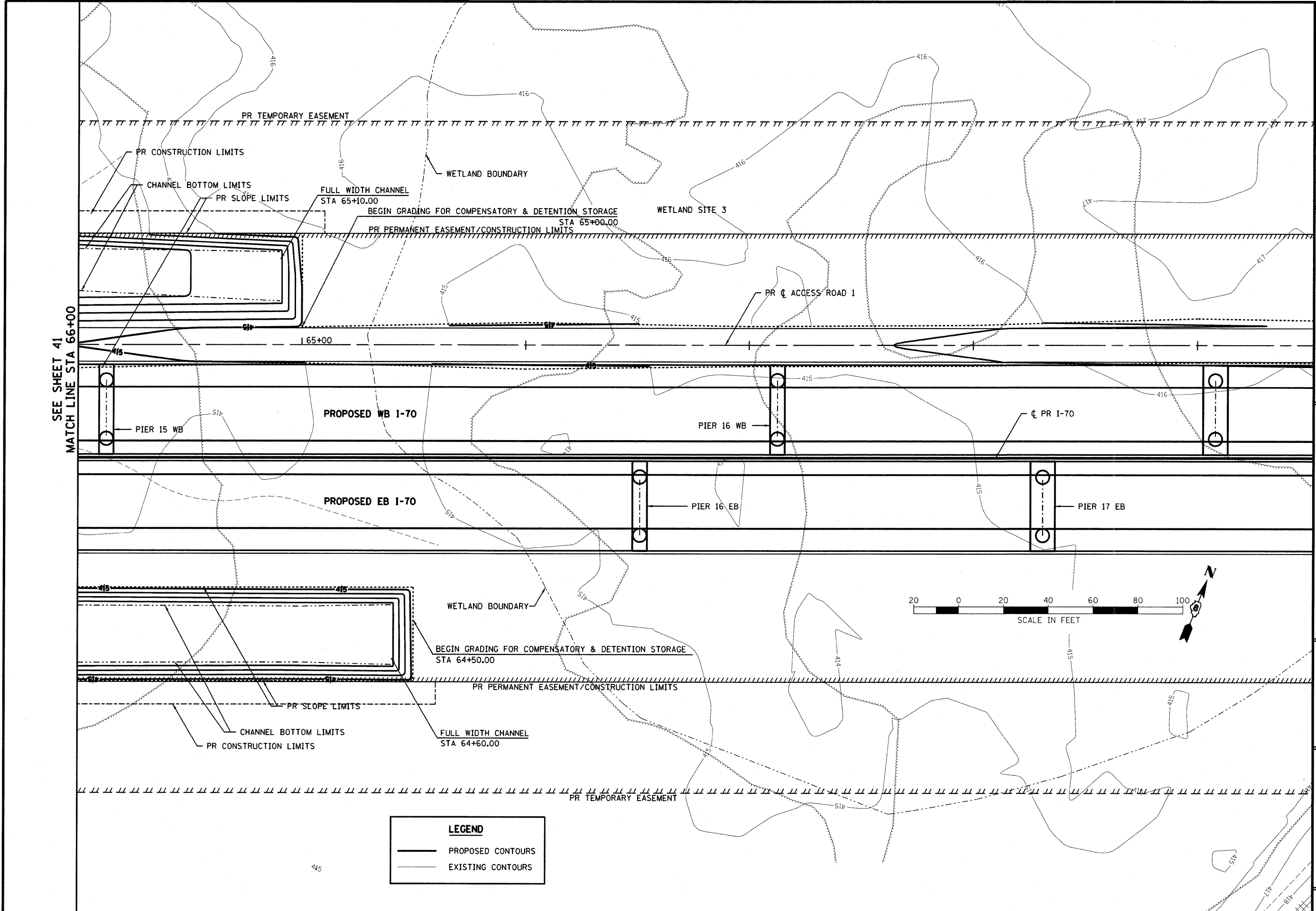
GRADING PLAN
ACCESS ROAD DETENTION
 ILLINOIS APPROACH STRUCTURE
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
 STA. 60+50 TO STA. 66+00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 MISSOURI HIGHWAYS
 AND TRANSPORTATION COMMISSION

HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY
 NO. 001270

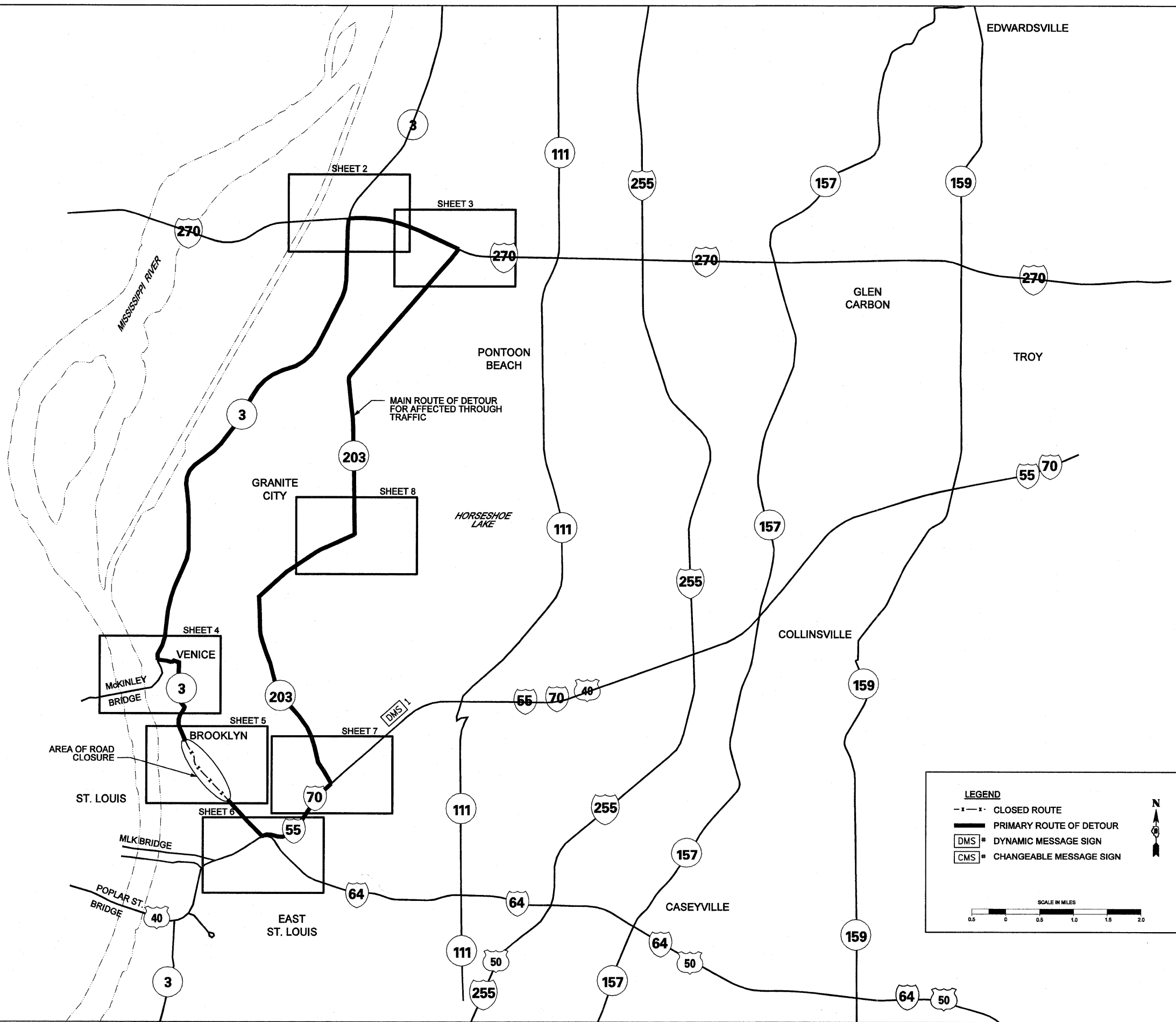
CMT
 CRAWFORD, MURPHY & TILLY, INC.
 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631

SHEET 42 OF 81



SEE SHEET 41
MATCH LINE STA 66+00

LEGEND	
	PROPOSED CONTOURS
	EXISTING CONTOURS



FILE NAME = DB0verall-00-sht-staging01-IL3.dgn

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 PLOT SCALE = 7920.7765' / IN.
 PLOT DATE = 2/18/2010

DESIGNED - DS
 DRAWN - AS
 CHECKED -
 DATE - 03/15/09

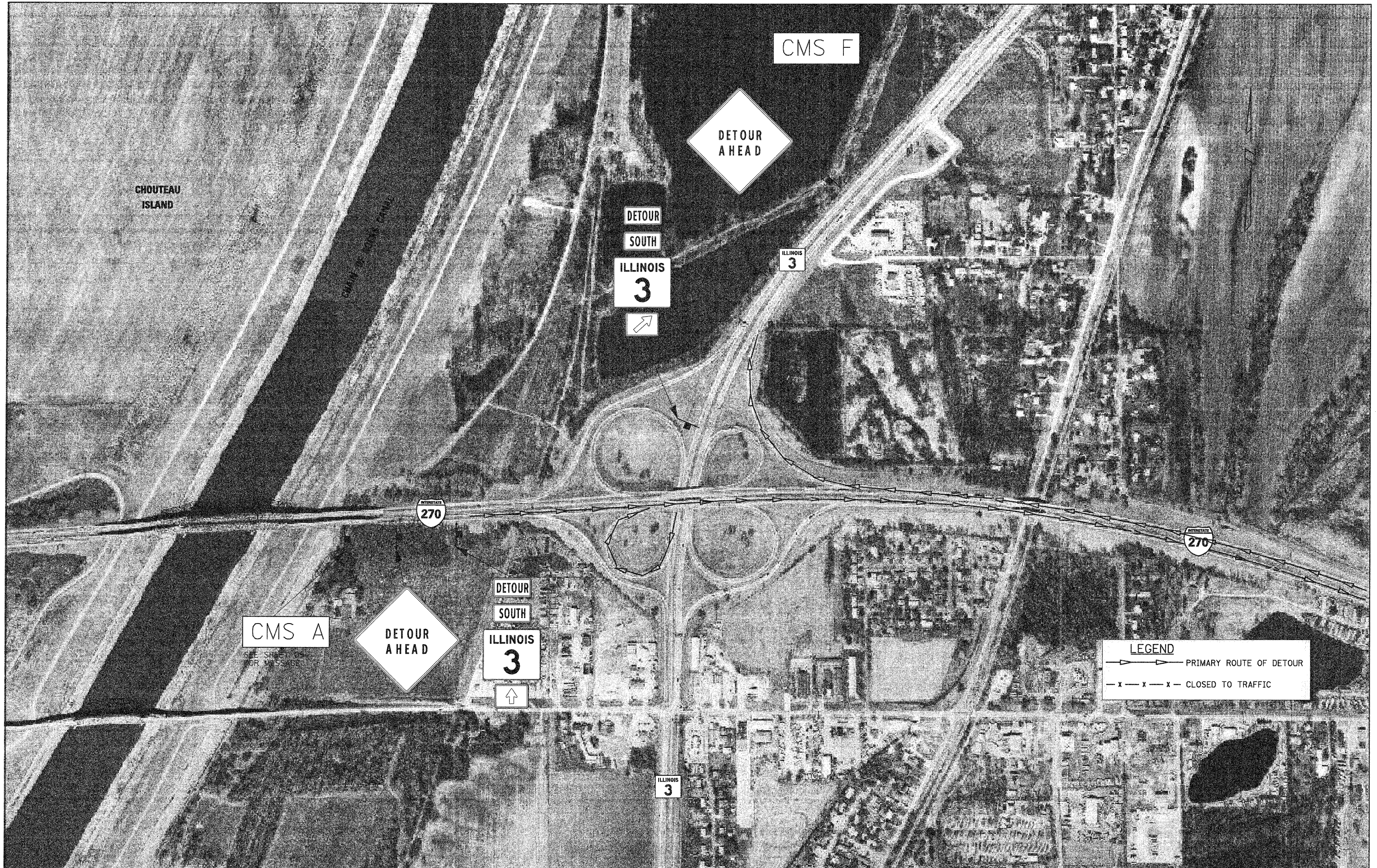
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 REVISED -
 REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 3 WEEKEND CLOSURE
 DETOUR OVERVIEW**

SCALE: 1" = 1 MILE SHEET NO. 1 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70		ST. CLAIR	81	43
			CONTRACT NO. 76D61	
ILLINOIS FED. AID PROJECT				



CMS A

SEE SHEET 04 FOR MESSAGE

CMS F

CHOUTEAU ISLAND

DETOUR AHEAD

DETOUR SOUTH ILLINOIS 3

ILLINOIS 3

INTERSTATE 270

INTERSTATE 270

DETOUR SOUTH ILLINOIS 3

ILLINOIS 3

LEGEND
 —▶— PRIMARY ROUTE OF DETOUR
 -x-x-x- CLOSED TO TRAFFIC

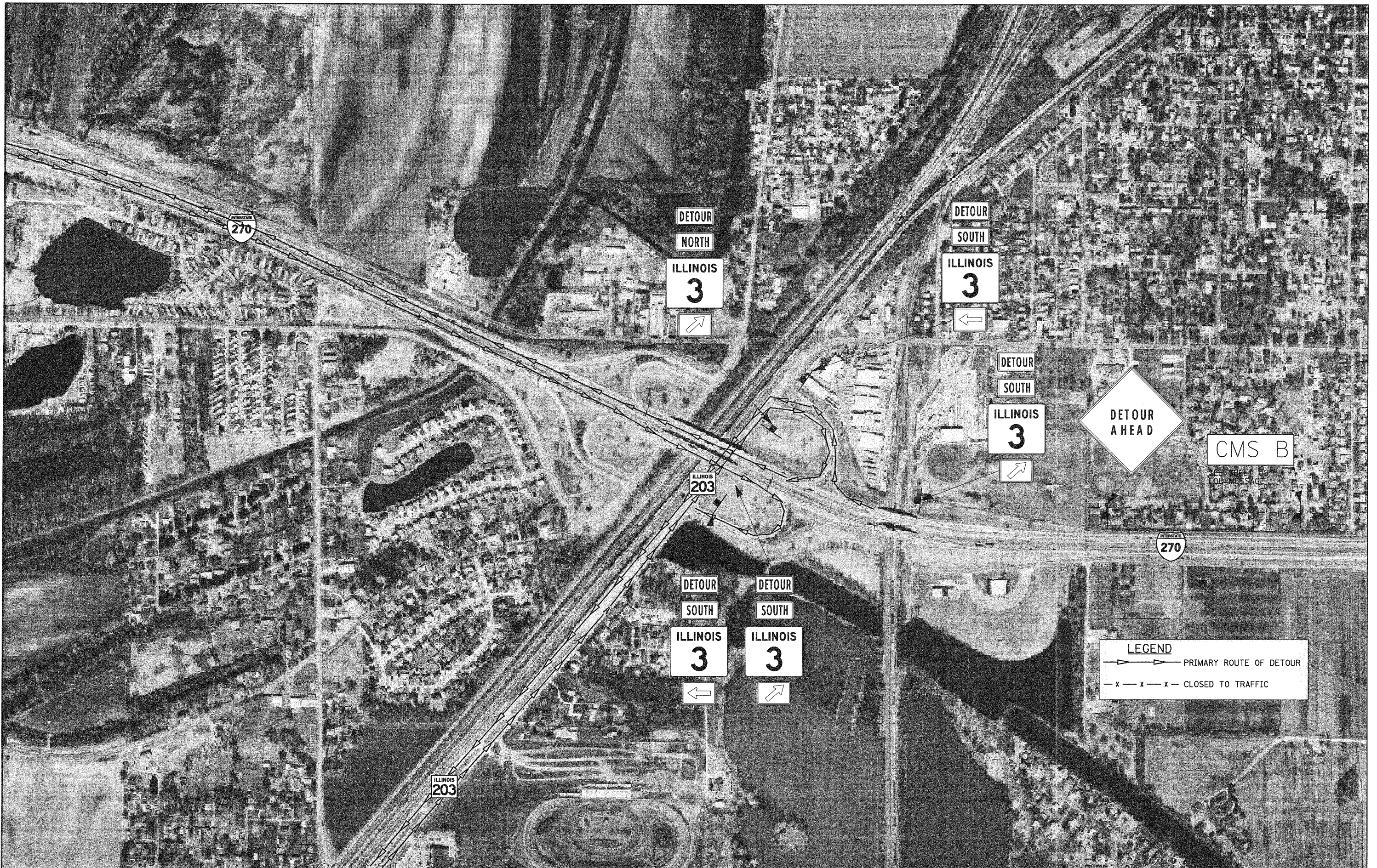
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		DRAWN - AS	REVISED -
		CHECKED -	REVISED -
		DATE - 03/15/09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 3 WEEKEND CLOSURE
INTERSTATE 270 AND IL ROUTE 3**

SCALE: 1" = 300' SHEET NO. 2 OF 11 SHEETS STA. TO STA.

F.A.I. RTE. 70	SECTION	COUNTY ST. CLAIR	TOTAL SHEETS 81	SHEET NO. 44
			CONTRACT NO. 76D61	
ILLINOIS FED. AID PROJECT				



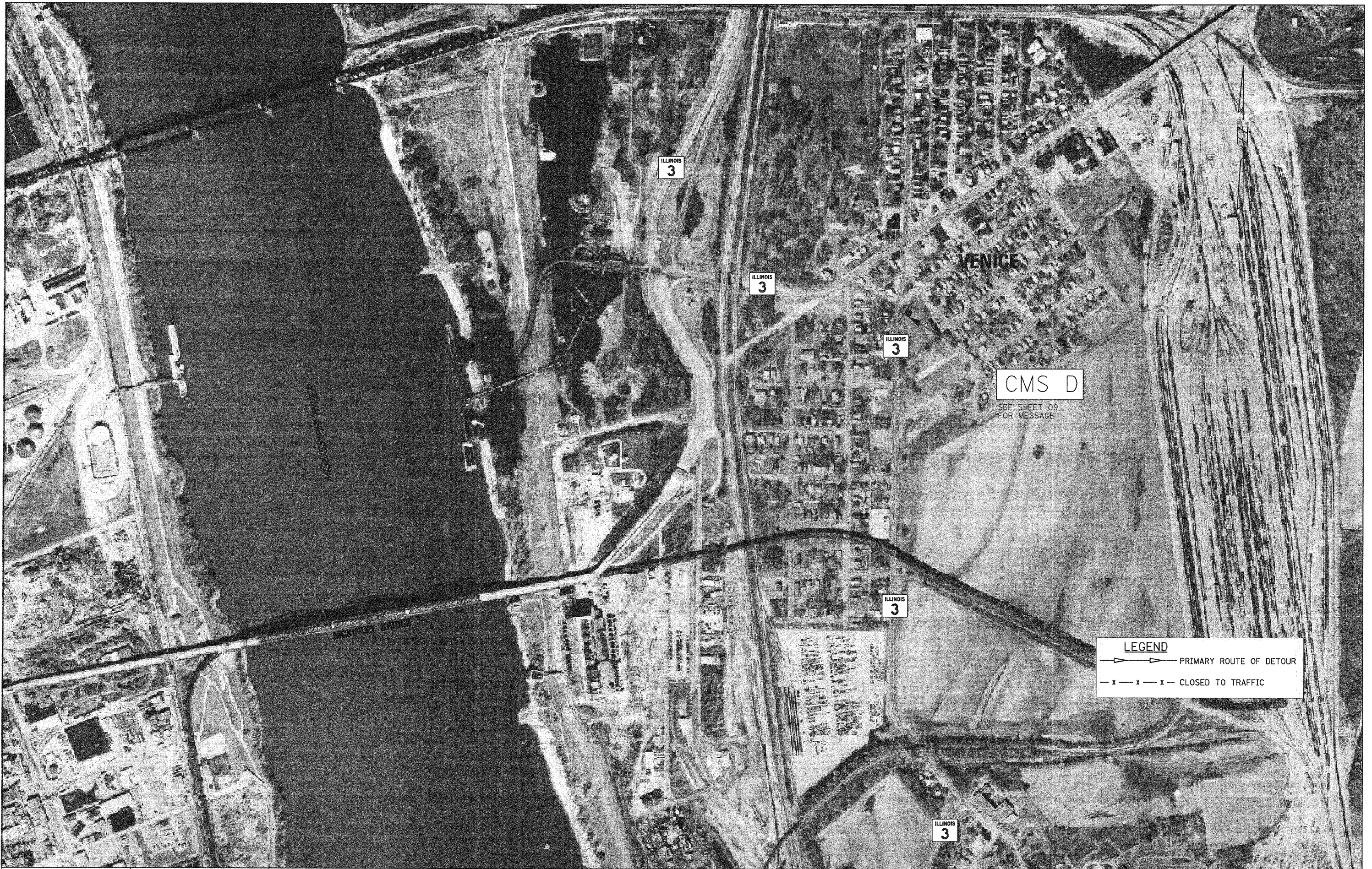
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CHECKED -
PLOT DATE = 2/18/2010
DATE - 03/15/09
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 3 WEEKEND CLOSURE
INTERSTATE 270 AND IL ROUTE 203**
SCALE: 1" = 300' SHEET NO. 3 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70		ST. CLAIR	81	45
CONTRACT NO. 76D61			ILLINOIS FED. AID PROJECT	



FILE NAME =
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USER NAME = asantiag
DESIGNED - DS
DRAWN - AS
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CHECKED -
PLOT DATE = 2/18/2010
DATE - 03/15/09
REVISED -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 3 WEEKEND CLOSURE
IL ROUTE 3 AND MCKINLEY BRIDGE**

SCALE: 1" = 300' SHEET NO. 4 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70		ST. CLAIR	81	46
			CONTRACT NO. 76D61	
ILLINOIS FED. AID PROJECT				



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 PLOT DATE = 2/18/2010

DESIGNED - DS
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 DATE - 03/15/09

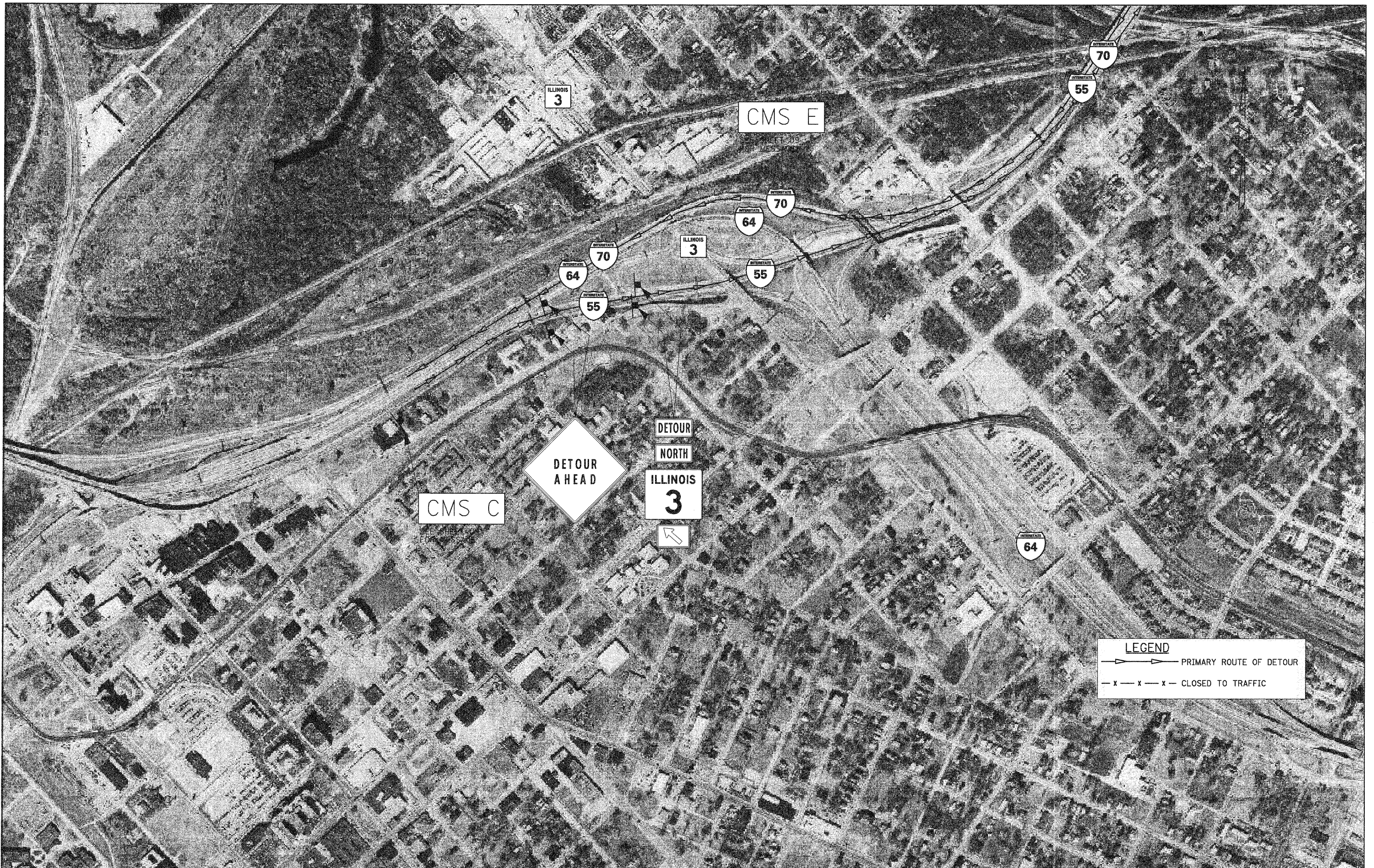
REVISED -
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 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 3 WEEKEND CLOSURE
 IL ROUTE 3 AT CLOSURE**

SCALE: 1" = 300' SHEET NO. 5 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70		ST. CLAIR	81	47
			CONTRACT NO. 76D61	
ILLINOIS FED. AID PROJECT				



DETOUR
AHEAD

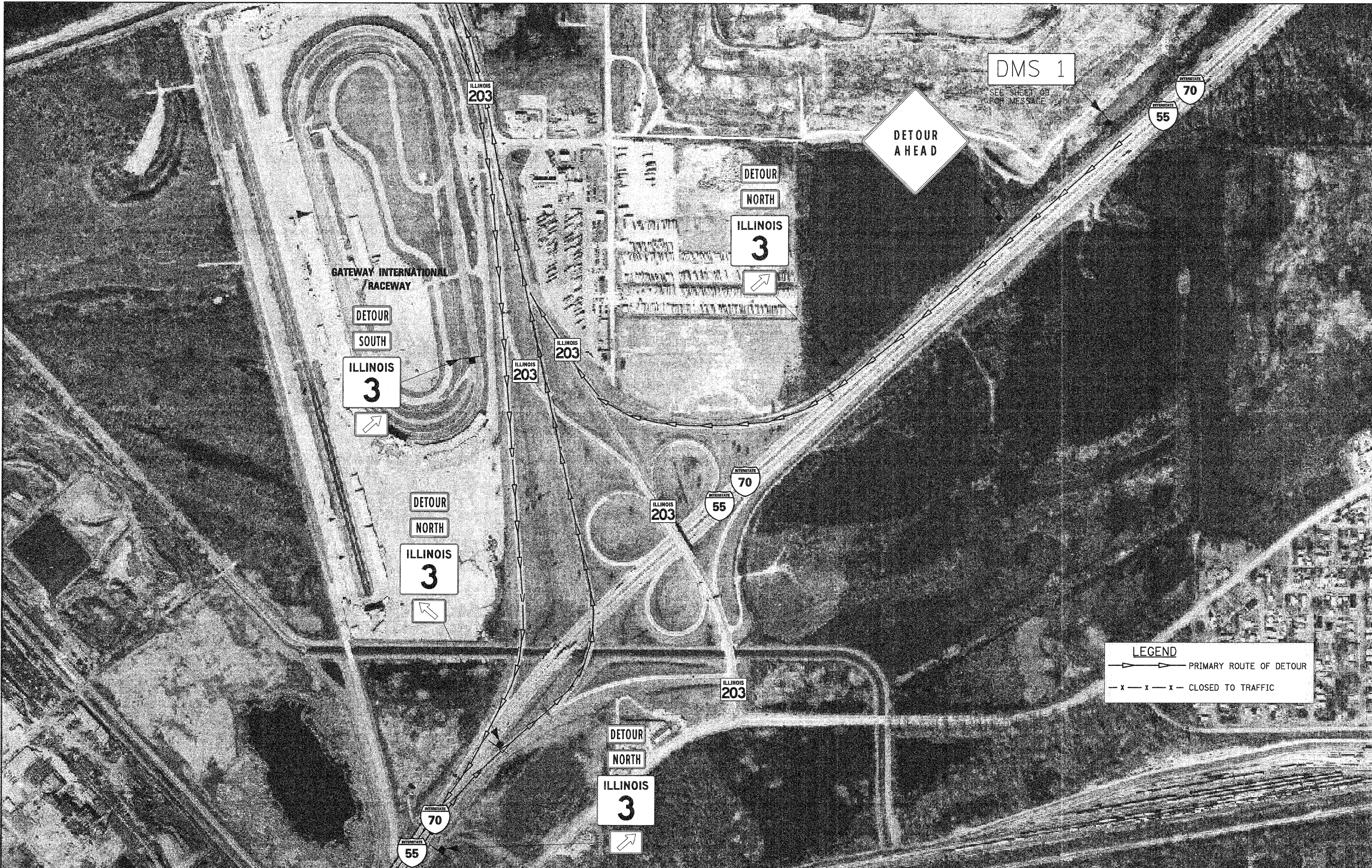
DETOUR
NORTH
ILLINOIS
3

CMS C

CMS E

LEGEND
 ———▶———▶ PRIMARY ROUTE OF DETOUR
 - x - x - x - CLOSED TO TRAFFIC

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	PLOT SCALE = 600.0588' / IN.	CHECKED -	REVISED -		SCALE: 1" = 300'			SHEET NO. 6 OF 11 SHEETS		TO STA.	CONTRACT NO. 76D61	
PLOT DATE = 2/18/2010	DATE - 03/15/09	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							



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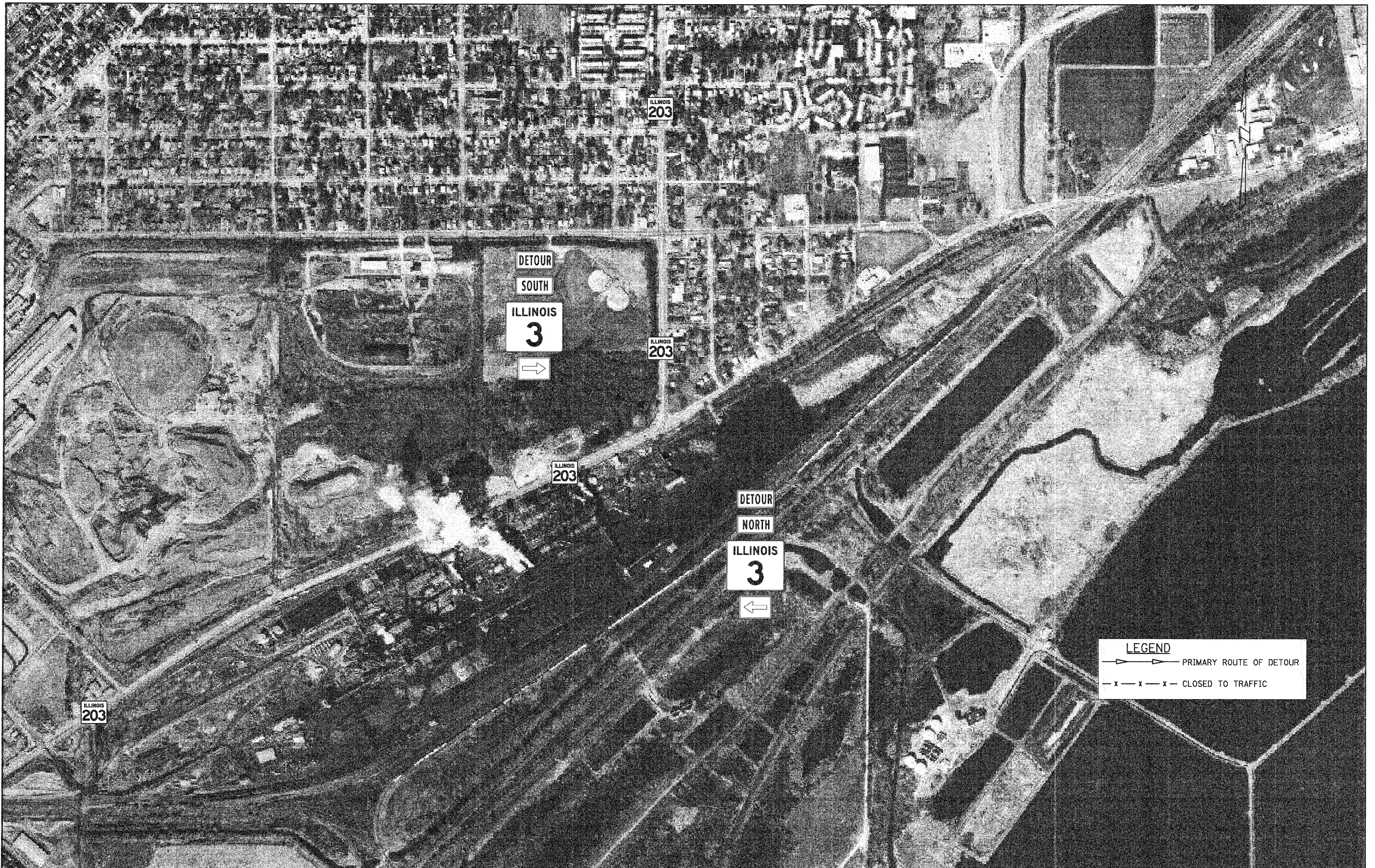
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 DRAWN - AS
 CHECKED -
 DATE - 03/15/09

REVISED -
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 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 3 WEEKEND CLOSURE
 INTERSTATE 55 AND IL ROUTE 203**
 SCALE: 1" = 300' SHEET NO. 7 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70		ST. CLAIR	81	49
				CONTRACT NO. 76D61
ILLINOIS FED. AID PROJECT				



LEGEND

—▶▶— PRIMARY ROUTE OF DETOUR

—x—x—x— CLOSED TO TRAFFIC

FILE NAME =
D80verall-20-sht-staging88-IL3.dgn

USER NAME = asantiag

PLOT SCALE = 600.0588' / IN.

PLOT DATE = 2/18/2010

DESIGNED _____

DRAWN _____

CHECKED - _____

DATE - 03/15/09

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 3 WEEKEND CLOSURE
INTERSTATE 55 AND IL ROUTE 203**

SCALE: 1" = 300' SHEET NO. 8 OF 11 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70		ST. CLAIR	81	50
				CONTRACT NO. 76D61
ILLINOIS FED. AID PROJECT				

CHANGEABLE MESSAGE SIGN MESSAGES

CMS A (I-270 EB @ IL 3)

MESSAGE 1

IL 3 SB
CLOSED

MESSAGE 2

9 MILES
SOUTH OF
I-270

MESSAGE 3

DETOUR
USE
EXIT 4

CMS F (IL ROUTE 3 SB AT I-270)

MESSAGE 1

IL 3 SB
CLOSED
9 MILES

MESSAGE 2

AHEAD
FOLLOW
DETOUR

CMS B (I-270 WB @ IL 203)

MESSAGE 1

IL 3 SB
CLOSED

MESSAGE 2

9 MILES
SOUTH OF
I-270

MESSAGE 3

DETOUR
USE
EXIT 4

CMS C (I-55/64/70 NB @ I-64)

MESSAGE 1

IL 3 NB
CLOSED
I MI N

MESSAGE 2

DETOUR
USE
EXIT 4

CMS D (IL ROUTE 3 NEAR MCKINLEY BRIDGE)

MESSAGE 1

IL
ROUTE 3
SOUTH

MESSAGE 2

CLOSED
1.5 MILES
AHEAD

CMS E (IL ROUTE 3 NEAR STOCK YARD)

MESSAGE 1

IL
ROUTE 3
NORTH

MESSAGE 2

CLOSED
1 MILE
AHEAD

DYNAMIC MESSAGE SIGN MESSAGES

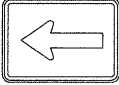
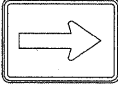


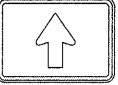




DMS #1 (I-55/70 SB NEAR IL 203)

MESSAGE 1




IL RT 3 NORTH
CLOSED. USE IL
203 AS DETOUR

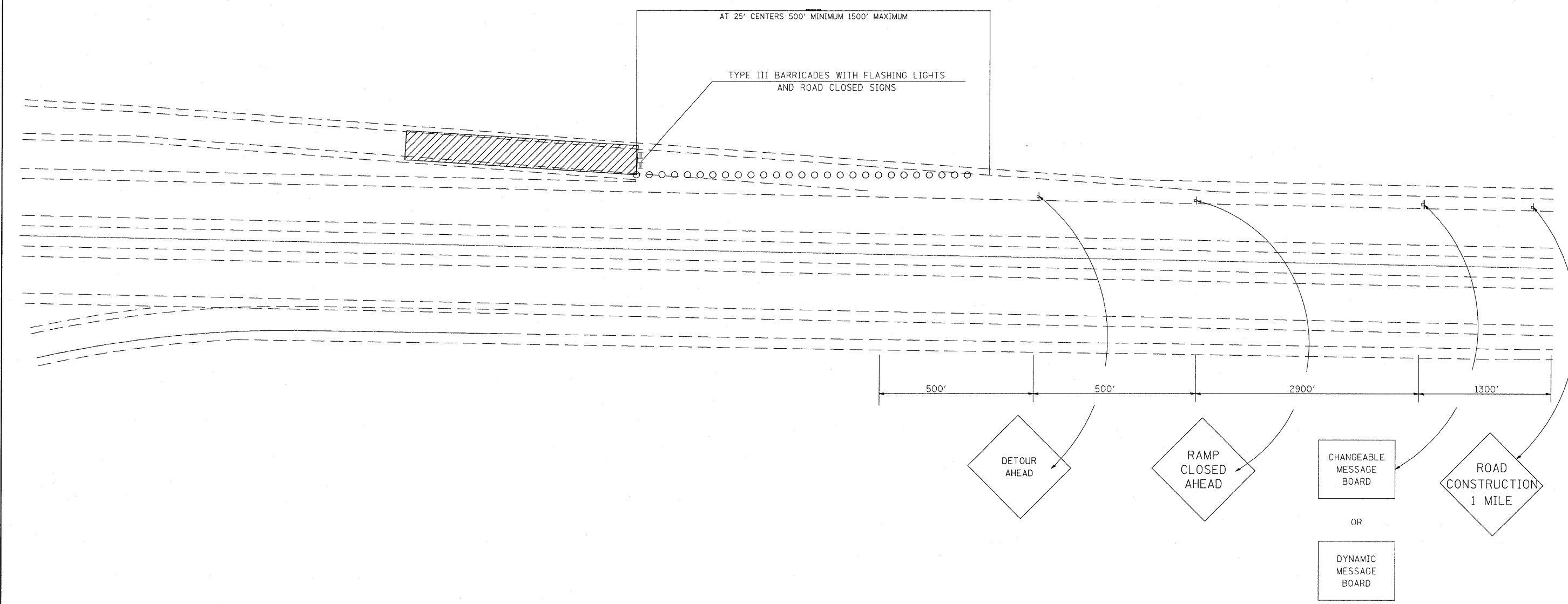
NOTE:
DYNAMIC MESSAGE SIGNS ARE PART OF THE
EXISTING ITS SYSTEM OWNED AND MAINTAINED
BY THE DEPARTMENT. CONTRACTOR IS
RESPONSIBLE FOR COORDINATING THIS MESSAGE
WITH THE DEPARTMENT'S TRAFFIC MANAGEMENT
CENTER.

DETOUR SIGN SCHEDULE
ALL SIGNS SHALL BE PROVIDED BY CONTRACTOR

									
SHEET #	ARROW LT	ARROW RT	ARROW DIAGONAL RT	ARROW DIAGONAL LT	ARROW UP	DETOUR	SOUTH	NORTH	IL 3
2	-	-	1	-	1	2	2	-	2
3	2	-	3	-	-	5	4	1	5
4	-	-	-	-	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-
6	-	-	-	2	-	2	-	2	2
7	-	-	3	1	-	4	1	3	4
8	1	1	-	-	-	2	1	1	2
TOTAL	3	1	7	3	1	15	8	7	15

DETOUR SIGN SCHEDULE
ALL SIGNS SHALL BE PROVIDED BY CONTRACTOR

			
SHEET #	DETOUR AHEAD	CMS	ROAD CLOSED
2	2	2	-
3	1	1	-
4	-	1	-
5	-	-	4
6	2	2	-
7	1	-	-
8	-	-	-
TOTAL	6	6	4



FILE NAME =	USER NAME = esantiog	DESIGNED -	REVISED -
DB0verall-00-shr-staging11-IL3.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 3 WEEKEND CLOSURE
TRAFFIC CONTROL AND PROTECTION (SPECIAL)**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			81	53
CONTRACT NO. 76D61				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SCALE: SHEET NO. 11 OF 11 SHEETS STA. TO STA.



STORM WATER POLLUTION PREVENTION PLAN

ROUTE FA 999 MARKED RTE. I-70
 SECTION 82-1B-2 PROJECT NO. D-98-066-09
 COUNTY ST. CLAIR CONTRACT NO. 76D61

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

MARY C. LAMIE Mary C. Jamie
 PRINT NAME SIGNATURE
DISTRICT ENGINEER 3-9-10
 TITLE DATE
IDOT
 AGENCY

I. SITE DESCRIPTION:

- A. THE FOLLOWING IS A DESCRIPTION OF THE PROJECT LOCATION:
 THE PROJECT CONSISTS OF THE CONSTRUCTION OF FOUR (4) MAINTENANCE ACCESS ROADS AS PART OF THE PROPOSED MISSISSIPPI RIVER CROSSING PROJECT WHICH COVERS SEVERAL MILES OF ROADWAY AND BRIDGE IMPROVEMENTS THAT ARE NECESSARY TO CONNECT EXISTING INTERSTATE HIGHWAYS TO THE NEW MISSISSIPPI RIVER BRIDGE. ALSO INCLUDED IS THE CONSTRUCTION OF THE ILLINOIS APPROACH BRIDGE. THE RUNOFF COEFFICIENT FOR THE SITE IS 0.3.
- B. THE FOLLOWING IS A DESCRIPTION OF THE CONSTRUCTION ACTIVITY WHICH IS THE SUBJECT OF THIS PLAN:
 CONSTRUCTION WILL INCLUDE THE REMOVAL AND REPLACEMENT OF CURB, TOPSOIL, CHAIN LINK FENCE, CLEARING AND GRUBBING, PLACEMENT OF RAILROAD CROSSINGS, 24" THICK GRAVEL FOR ACCESS ROAD SURFACES, LANDSCAPING, AND ALL INCIDENTALS AND COLLATERAL WORK NECESSARY TO COMPLETE THE PROJECT AS SHOWN ON THE PLANS.
- C. THE FOLLOWING IS A DESCRIPTION OF THE INTENDED SEQUENCE OF MAJOR ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE, SUCH AS GRUBBING, EXCAVATION AND GRADING:
 MAJOR CONSTRUCTION ACTIVITIES INCLUDE DRILLED SHAFT CONSTRUCTION, BRIDGE FOOTING CONSTRUCTION, EARTH EXCAVATION AND EMBANKMENT, CONSTRUCTION OF GRAVEL ROADWAY, TOPSOIL, AND SEEDING.
- D. THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 36 ACRES.
 THE TOTAL AREA OF THE SITE THAT IS ESTIMATED WILL BE DISTURBED BY EXCAVATION, GRADING OR OTHER ACTIVITIES IS 16.5 ACRES.
- E. THE FOLLOWING IS A WEIGHTED AVERAGE OF THE RUNOFF COEFFICIENT FOR THIS PROJECT AFTER CONSTRUCTION ACTIVITIES ARE COMPLETED:
 THE ESTIMATED RUNOFF COEFFICIENTS OF THE VARIOUS AREAS OF THE SITE AFTER CONSTRUCTION ACTIVITIES ARE CONTAINED IN THE PROJECT DRAINAGE STUDY, WHICH IS HEREBY INCORPORATED BY REFERENCE IN THIS PLAN. SINCE IMPERVIOUS MATERIALS WILL NOT BE USED IN THE CONSTRUCTION OF THE ACCESS ROADS, THE PROPOSED RUNOFF COEFFICIENT IS EXPECTED TO BE THAT OF THE EXISTING.
- F. THE FOLLOWING IS A DESCRIPTION OF THE SOIL TYPES FOUND AT THE PROJECT SITE FOLLOWED BY INFORMATION REGARDING THEIR EROSIVITY:
 SOIL SURVEY INDICATES THAT THE AREA IS COMPRISED OF THE FOLLOWING SOIL TYPES:
 1. URBAN LAND (533)
 2. SHAFFTON CLAY LOAM (B183A) - THIS SOIL IS POORLY DRAINED AND EXPERIENCES OCCASIONAL FLOODING.
 3. FULTS SILTY CLAY (8591A) - THIS SOIL IS POORLY DRAINED AND EXPERIENCES OCCASIONAL FLOODING WITH FREQUENT PONDING.
- G. THE FOLLOWING IS A DESCRIPTION OF POTENTIALLY EROSIIVE AREAS ASSOCIATED WITH THIS PROJECT:
 ALL OF THE PROPOSED IMPROVEMENTS ARE LOCATED WITHIN THE FLOODPLAIN VALLEY OF THE MISSISSIPPI RIVER, IN AN AREA KNOWN AS THE AMERICAN BOTTOMS. THE PROJECT AREA IS PROTECTED FROM THE MISSISSIPPI RIVER FLOODING BY AN URBAN LEVEE SYSTEM ON THE ILLINOIS SIDE WHICH IS LOCATED PRIMARILY NEAR THE BANK OF THE RIVER AND EXTENDING UPSTREAM AND DOWNSTREAM OF THE PROJECT VICINITY. THESE LEVEE SYSTEM PROTECT THE CITY OF EAST ST. LOUIS AND ADJACENT COMMUNITIES OF MADISON, BROOKLYN, AND VENICE.
 SEVERAL RAILROAD FACILITIES ARE LOCATED ADJACENT TO THE PROJECT LIMITS. ENTRY IS NOT PERMITTED UNDER ANY CIRCUMSTANCES IN THESE AREAS. THIS INCLUDES ALL CONSTRUCTION TRAFFIC, FOOT AND MOTORIZED. PERIMETER FENCING AND NO-INTRUSION SIGNAGE WILL BE ERCTED, THESE PROTECTION DEVICES ARE LISTED IN THE EROSION CONTROL PLAN.
 THE 100-YEAR GROUND WATER ELEVATION HAS BEEN IDENTIFIED AS A SPECIFIC CONSTRAINT AND MUST BE MAINTAINED TO PROTECT THE EXISTING COMMUNITIES. ADDITIONAL EXCAVATION IS BEING PROVIDED, WHERE APPROPRIATE, AS COMPENSATORY STORAGE TO OFFSET FILL PLACED BELOW THIS ELEVATION.

H. THE FOLLOWING IS A DESCRIPTION OF SOIL DISTURBING ACTIVITIES, THEIR LOCATIONS, AND THEIR EROSIIVE FACTORS (E.G. STEEPNESS OF SLOPES, LENGTH OF SLOPES, ETC):
 IN GENERAL THE EXISTING SITE IS VERY FLAT WITH VERY LITTLE DEFINED DRAINAGE. EXISTING CONCRETE, TREES, AND SHRUBS WILL BE CLEARED FROM THE SITE PER CONTRACT PLANS.

I. SEE THE EROSION CONTROL PLANS AND/OR DRAINAGE PLANS FOR THIS CONTRACT FOR INFORMATION REGARDING DRAINAGE PATTERNS, APPROXIMATE SLOPES ANTICIPATED BEFORE AND AFTER MAJOR GRADING ACTIVITIES, LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AND CONTROLS TO PREVENT OFF SITE SEDIMENT TRACKING (TO BE ADDED AFTER CONTRACTOR IDENTIFIES LOCATIONS), AREAS OF SOIL DISTURBANCE, THE LOCATION OF MAJOR STRUCTURAL AND NON-STRUCTURAL CONTROLS IDENTIFIED IN THE PLAN, THE LOCATION OF AREAS WHERE STABILIZATION PRACTICES ARE EXPECTED TO OCCUR, SURFACE WATERS (INCLUDING WETLANDS) AND LOCATIONS WHERE STORM WATER IS DISCHARGED TO SURFACE WATER INCLUDING WETLANDS.

J. THE FOLLOWING IS A LIST OF RECEIVING WATER(S) AND THE ULTIMATE RECEIVING WATER(S), AND AREAL EXTENT OF WETLAND ACREAGE AT THE SITE. THE LOCATION OF THE RECEIVING WATERS CAN BE FOUND ON THE EROSION AND SEDIMENT CONTROL PLANS:
 THE CAHOKIA CANAL IS THE PRIMARY TRIBUTARY THAT FLOWS THROUGH THE PROJECT VICINITY. THE CANAL CONVEYS RUNOFF FROM THE UPLAND AREAS THAT LIE TO THE EAST OF THE MISSISSIPPI FLOODPLAIN AND ALSO FROM PORTIONS OF THE BOTTOMS. SEVERAL TRIBUTARY STREAMS/CANALS OF THE CAHOKIA CANAL INTERCEPT THE UPLAND RUNOFF, INCLUDING CANTEN CREEK SCHOOLHOUSE BRANCH AND JUDY'S BRANCH. THE EXISTING DRAINAGE WITHIN THIS AREA IS COMPRISED OF DITCHES, DEPRESSIONS, WETLANDS, AND THE CAHOKIA CANAL. RAINFALL WITHIN THE VARIOUS DRAINAGE BASINS TENDS TO POOL INTO THE DEPRESSIONS FROM SURFACE RUNOFF AND SHALLOW CONCENTRATED FLOW IN THE DITCHES. FOR MOST AREAS, THERE IS NO KNOWN DRAINAGE OUTLET TO SOME OF THESE "POOLING" AREAS. TWO CONDITIONS PREVAIL AS TO HOW THE DRAINAGE IS HANDLED AT THAT POINT. IF THE CAHOKIA CANAL IS BELOW FLOOD STAGE, THE DEPRESSIONS WILL DISCHARGE INTO THE CANAL. IF THE CANAL IS AT OR ABOVE FLOOD STAGE, THE CANAL WILL DISCHARGE A PORTION OF IT'S FLOW INTO THE DEPRESSIONS UNTIL AN EQUALIZATION ELEVATION IS REACHED.

K. THE FOLLOWING POLLUTANTS OF CONCERN WILL BE ASSOCIATED WITH THIS CONSTRUCTION PROJECT: (CHECK ALL THAT APPLY)

- SOIL SEDIMENT
- CONCRETE
- CONCRETE TRUCK WASTE
- CONCRETE CURING COMPOUNDS
- SOLID WASTE DEBRIS
- PAINTS
- SOLVENTS
- FERTILIZERS / PESTICIDES
- PETROLEUM (GAS, DIESEL, OIL, KEROSENE, HYDRAULIC OIL/FLUIDS)
- ANTIFREEZE / COOLANTS
- WASTE WATER FROM CLEANING CONSTRUCTION EQUIPMENT
- OTHER (SPECIFY):.....
- OTHER (SPECIFY):.....
- OTHER (SPECIFY):.....
- OTHER (SPECIFY):.....
- OTHER (SPECIFY):.....

II. CONTROLS

THIS SECTION OF THE PLAN ADDRESSES THE CONTROLS THAT WILL BE IMPLEMENTED FOR EACH OF THE MAJOR CONSTRUCTION ACTIVITIES DESCRIBED IN I.C. ABOVE AND FOR ALL USE AREAS, BORROW SITES, AND WASTE SITES. FOR EACH MEASURE DISCUSSED, THE CONTRACTOR WILL BE RESPONSIBLE FOR ITS IMPLEMENTATION AS INDICATED. THE CONTRACTOR SHALL PROVIDE TO THE RESIDENT ENGINEER A PLAN FOR THE IMPLEMENTATION OF THE MEASURES INDICATED. THE CONTRACTOR, AND SUBCONTRACTORS, WILL NOTIFY THE RESIDENT ENGINEER OF ANY PROPOSED CHANGES, MAINTENANCE, OR MODIFICATIONS TO KEEP CONSTRUCTION ACTIVITIES COMPLIANT WITH THE PERMIT. EACH SUCH CONTRACTOR HAS SIGNED THE REQUIRED CERTIFICATION ON FORMS WHICH ARE ATTACHED TO, AND ARE A PART OF THIS PLAN:

A. EROSION AND SEDIMENT CONTROL

1. STABILIZATION PRACTICES: PROVIDED BELOW IS A DESCRIPTION OF INTERIM AND PERMANENT STABILIZATION PRACTICES, INCLUDING SITE SPECIFIC SCHEDULING OF THE IMPLEMENTATION OF THE PRACTICES. SITE PLANS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, GEOTEXTILES, SODDING, VEGETATIVE BUFFER STRIPS, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION, AND OTHER APPROPRIATE MEASURES. EXCEPT AS PROVIDED BELOW IN II(A)(1)(G) AND II(A)(3), STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASES ON ALL DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION WILL NOT OCCUR FOR A PERIOD OF 14 OR MORE CALENDAR DAYS.

o. WHERE THE INITIATION OF STABILIZATION MEASURES BY THE 7TH DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASES IS PRECLUDED BY SNOW COVER, STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE THEREAFTER.

CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR

USER NAME = Josh Jolliff
 PLOT SCALE = 1.0000' / IN.
 PLOT DATE = 3/8/2010

DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

STORM WATER POLLUTION PREVENTION PLAN
ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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 ENGINEERING CORPORATION - 000631

STORM WATER POLLUTION PREVENTION PLAN

ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

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THE FOLLOWING STABILIZATION PRACTICES WILL BE USED FOR THIS PROJECT:
(CHECK ALL THAT APPLY)

- | | |
|---|---|
| <input type="checkbox"/> PRESERVATION OF MATURE VEGETATION | <input type="checkbox"/> EROSION CONTROL BLANKET / MULCHING |
| <input type="checkbox"/> VEGETATED BUFFER STRIPS | <input type="checkbox"/> SODDING |
| <input type="checkbox"/> PROTECTION OF TREES | <input type="checkbox"/> GEOTEXTILES |
| <input checked="" type="checkbox"/> TEMPORARY EROSION CONTROL SEEDING | <input type="checkbox"/> OTHER (SPECIFY)..... |
| <input type="checkbox"/> TEMPORARY TURF (SEEDING, CLASS 7) | <input type="checkbox"/> OTHER (SPECIFY)..... |
| <input type="checkbox"/> TEMPORARY MULCHING | <input type="checkbox"/> OTHER (SPECIFY)..... |
| <input checked="" type="checkbox"/> PERMANENT SEEDING | <input type="checkbox"/> OTHER (SPECIFY)..... |

DESCRIBE HOW THE STABILIZATION PRACTICES LISTED ABOVE WILL BE UTILIZED:

1. TEMPORARY EROSION CONTROL SEEDING - THIS ITEM WILL BE APPLIED TO ALL BARE AREAS EVERY SEVEN DAYS TO MINIMIZE THE AMOUNT OF EXPOSED SURFACE AREAS. EARTH STOCKPILES SHALL BE TEMPORARILY SEEDDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN 14 DAYS. WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION. BARE AND SPARSELY VEGETATED GROUND IN HIGHLY ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN 7 DAYS.

2. PERMANENT SEEDING - ALL AREAS DISTURBED BY CONSTRUCTION WILL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING THE FINISHED GRADING. EROSION CONTROL BLANKETS WILL BE INSTALLED OVER FILL SLOPES WHICH HAVE BEEN BROUGHT TO FINAL GRADE AND HAVE BEEN SEEDDED TO PROTECT THE SLOPES FROM RILL AND GULLY EROSION AND ALLOW SEED TO GERMINATE PROPERLY. MULCH, METHOD 2 WILL BE USED ON RELATIVELY FLAT AREAS.

3. STONE RIPRAP - STONE RIPRAP WILL BE USED AS PROTECTION AT THE DISCHARGE END OF MOST STORM SEWER AND CULVERT END SECTIONS TO PREVENT SCOURING AT THE END OF PIPES AND TO PREVENT DOWNSTREAM EROSION.

2. STRUCTURAL PRACTICES: PROVIDED BELOW IS A DESCRIPTION OF STRUCTURAL PRACTICES THAT WILL BE IMPLEMENTED, TO THE DEGREE ATTAINABLE, TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SUCH PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: PERIMETER EROSION BARRIER, EARTH DIKES, DRAINAGE SWALES, SEDIMENT TRAPS, DITCH CHECKS, SUBSURFACE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STORM DRAIN INLET PROTECTION, ROCK OUTLET PROTECTION, REINFORCED SOIL RETAINING SYSTEMS, GABIONS, AND TEMPORARY OR PERMANENT SEDIMENT BASINS. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.

THE FOLLOWING STRUCTURAL PRACTICES WILL BE USED FOR THIS PROJECT:

- | | |
|---|--|
| <input checked="" type="checkbox"/> PERIMETER EROSION BARRIER | <input checked="" type="checkbox"/> ROCK OUTLET PROTECTION |
| <input checked="" type="checkbox"/> TEMPORARY DITCH CHECK | <input checked="" type="checkbox"/> RIPRAP |
| <input type="checkbox"/> STORM DRAIN INLET PROTECTION | <input type="checkbox"/> GABIONS |
| <input type="checkbox"/> SEDIMENT TRAP | <input type="checkbox"/> SLOPE MATTRESS |
| <input type="checkbox"/> TEMPORARY PIPE SLOPE DRAIN | <input type="checkbox"/> RETAINING WALLS |
| <input type="checkbox"/> TEMPORARY SEDIMENT BASIN | <input type="checkbox"/> SLOPE WALLS |
| <input type="checkbox"/> TEMPORARY STREAM CROSSING | <input type="checkbox"/> CONCRETE REVETMENT MATS |
| <input checked="" type="checkbox"/> STABILIZED CONSTRUCTION EXITS | <input type="checkbox"/> LEVEL SPREADERS |
| <input type="checkbox"/> TURF REINFORCEMENT MATS | <input type="checkbox"/> OTHER (SPECIFY)..... |
| <input type="checkbox"/> PERMANENT CHECK DAMS | <input type="checkbox"/> OTHER (SPECIFY)..... |
| <input type="checkbox"/> PERMANENT SEDIMENT BASIN | <input type="checkbox"/> OTHER (SPECIFY)..... |
| <input type="checkbox"/> AGGREGATE DITCH | <input type="checkbox"/> OTHER (SPECIFY)..... |
| <input type="checkbox"/> PAVED DITCH | <input type="checkbox"/> OTHER (SPECIFY)..... |

DESCRIBE HOW THE STRUCTURAL PRACTICES LISTED ABOVE WILL BE UTILIZED:

1. PERIMETER EROSION BARRIER - SILT FENCES WILL BE PLACED ALONG THE CONSTRUCTION LIMITS IN AN EFFORT TO CONTAIN SILT AND RUNOFF FROM LEAVING THE SITE. THE SILT FENCES ARE TO BE PLACED AT THE BEGINNING OF CONSTRUCTION AND REMOVE AT THE TERMINATION OF CONSTRUCTION ACTIVITIES.

2. STONE RIPRAP AND ROCK OUTLET PROTECTION - STONE RIPRAP WILL BE PROVIDED AT BRIDGE STORM AND CULVERT OUTLETS AS A MEASURE FOR EROSION AND SEDIMENT CONTROL WHERE NEEDED DURING AND AFTER CONSTRUCTION.

3. PROTECTIVE SHIELD - A PROTECTIVE SHIELD WILL BE UTILIZED TO PROTECT THE ADJACENT GROUND FROM FALLING MATERIALS FROM THE BRIDGE DECK AND SUPERSTRUCTURE CONSTRUCTION.

AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, AND PERIMETER EROSION BARRIER SHALL BE INSTALLED AS CALLED OUT IN THIS PLAN AND DIRECTED BY THE ENGINEER.

ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.

3. STORM WATER MANAGEMENT: PROVIDED BELOW IS A DESCRIPTION OF MEASURES THAT WILL BE INSTALLED DURING THE CONSTRUCTION PROCESS TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES THAT WILL OCCUR AFTER CONSTRUCTION OPERATIONS HAVE BEEN COMPLETED. THE INSTALLATION OF THESE DEVICES MAY BE SUBJECT TO SECTION 404 OF THE CLEAN WATER ACT.

a. SUCH PRACTICES MAY INCLUDE BUT ARE NOT LIMITED TO: STORM WATER DETENTION STRUCTURES (INCLUDING WET PONDS), STORM WATER RETENTION STRUCTURES, FLOW ATTENUATION BY USE OF OPEN VEGETATED SWALES AND NATURAL DEPRESSIONS, INFILTRATION OF RUNOFF ON SITE, AND SEQUENTIAL SYSTEMS (WHICH COMBINE SEVERAL PRACTICES).

THE PRACTICES SELECTED FOR IMPLEMENTATION WERE DETERMINED ON THE BASIS OF THE TECHNICAL GUIDANCE IN SECTION 59-8 (EROSION AND SEDIMENT CONTROL) IN CHAPTER 59 (LANDSCAPE DESIGN AND EROSION CONTROL) OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION BUREAU OF DESIGN AND ENVIRONMENT MANUAL. IF PRACTICES OTHER THAN THOSE DISCUSSED IN SECTION 59-8 ARE SELECTED FOR IMPLEMENTATION OR IF PRACTICES ARE APPLIED TO SITUATIONS DIFFERENT FROM THOSE COVERED IN SECTION 59-8, THE TECHNICAL BASIS FOR SUCH DECISIONS WILL BE EXPLAINED BELOW.

b. VELOCITY DISSIPATION DEVICES WILL BE PLACED AT DISCHARGE LOCATIONS AND ALONG THE LENGTH OF ANY OUTFALL CHANNEL AS NECESSARY TO PROVIDE A NON-EROSIVE VELOCITY FLOW FROM THE STRUCTURE TO A WATER COURSE SO THAT THE NATURAL PHYSICAL AND BIOLOGICAL CHARACTERISTICS AND FUNCTIONS ARE MAINTAINED AND PROTECTED (E.G. MAINTENANCE OF HYDROLOGIC CONDITIONS SUCH AS THE HYDROPERIOD AND HYDRODYNAMICS PRESENT PRIOR TO THE INITIATION OF CONSTRUCTION ACTIVITIES).

DESCRIPTION OF STORM WATER MANAGEMENT CONTROLS:

A. STONE RIPRAP CHECK BASINS ARE BEING UTILIZED FOR THIS PROJECT TO CONTROL EROSION UNDERNEATH BRIDGE DECKS ADJACENT TO PROJECT LIMITS. THESE BASINS WILL BE INSTALLED EARLY IN THE PROJECT, PROVIDING CONSTRUCTION CREWS WITH STABILIZED WORK PADS, AND WILL BE LEFT IN PLACE, GIVING BRIDGE INSPECTORS AND HIGHWAY MAINTAINERS SUITABLE, AND NON-DAMAGING MEANS TO PERFORM NECESSARY MAINTENANCE.

B. DUE TO THE FACT THAT THE PROJECT DOES NOT DRAIN TO A DEFINED CONVEYANCE CHANNEL, BUT INSTEAD WILL DRAIN TO ONE OF THE MANY LOW LYING AREAS WHERE WATER PONDS, VOLUMES OF DETENTION WILL NOT BE PROVIDED BY MEANS OF A RESTRICTOR. INSTEAD, THE REQUIRED VOLUME(S) WILL BE PROVIDED THAT ARE EQUAL TO THE VOLUME OF ADDITIONAL RUNOFF THAT IS GENERATED AS A RESULT OF THE INCREASE IN IMPERVIOUS AREA.

C. UNITED STATES ARMY CORPS OF ENGINEERS - SAINT LOUIS DIVISION (USACE-SLD) DEVELOPED 100-YEAR PONDING ELEVATIONS FOR THE AMERICAN BOTTOMS AREA THAT ILLINOIS FOR THE VICINITY OF THE PROJECT. THESE ELEVATIONS WERE ESTABLISHED AS PART OF THE FLOOD INSURANCE STUDIES FOR THE NEARBY COMMUNITIES. COMPENSATORY STORAGE WILL BE PROVIDED WITHIN THE PROJECT LIMITS BASED ON THE CALCULATED DISPLACED STORAGE BELOW THE 100-YEAR FLOOD ELEVATION.

D. THE ILLINOIS STATE WATER SURVEY (ISWS) PERFORMED GROUNDWATER MODELING TO ESTABLISH ELEVATION/DURATION CURVES FOR GROUNDWATER TABLE NEAR THE PROJECT ALIGNMENT. COMPENSATION WILL BE MADE FOR FILL PLACED BELOW THE ESTABLISHED 100-YEAR GROUNDWATER ELEVATION.

4. OTHER CONTROLS:

a. VEHICLE ENTRANCES AND EXITS - STABILIZED CONSTRUCTION ENTRANCES AND EXITS MUST BE CONSTRUCTED TO PREVENT TRACKING OF SEDIMENTS ONTO ROADWAYS.

THE CONTRACTOR WILL PROVIDE THE RESIDENT ENGINEER WITH A WRITTEN PLAN IDENTIFYING THE LOCATION OF STABILIZED ENTRANCES AND EXITS AND THE PROCEDURES (SHE WILL USE TO CONSTRUCT AND MAINTAIN THEM.

b. MATERIAL DELIVERY, STORAGE, AND USE - THE FOLLOWING BMPs SHALL BE IMPLEMENTED TO HELP PREVENT DISCHARGES OF CONSTRUCTION MATERIALS DURING DELIVERY, STORAGE, AND USE:

- ALL PRODUCTS DELIVERED TO THE PROJECT SITE MUST BE PROPERLY LABELED.

- WATER TIGHT SHIPPING CONTAINERS AND/OR SEMI TRAILERS SHALL BE USED TO STORE HAND TOOLS, SMALL PARTS, AND MOST CONSTRUCTION MATERIALS THAT CAN BE CARRIED BY HAND, SUCH AS PAINT CANS, SOLVENTS, AND GREASE.

- A STORAGE/CONTAINMENT FACILITY SHOULD BE CHOSEN FOR LARGER ITEMS SUCH AS DRUMS AND ITEMS SHIPPED OR STORED ON PALLETS. SUCH MATERIAL IS TO BE COVERED BY A TIN ROOF OR LARGE SHEETS OF PLASTIC TO PREVENT PRECIPITATION FROM COMING IN CONTACT WITH THE PRODUCTS BEING STORED.

- LARGE ITEMS SUCH AS LIGHT STANDS, FRAMING MATERIALS AND LUMBER SHALL BE STORED IN THE OPEN IN A GENERAL STORAGE AREA. SUCH MATERIAL SHALL BE ELEVATED WITH WOOD BLOCKS TO MINIMIZE CONTACT WITH STORM WATER RUNOFF.

- SPILL CLEAN-UP MATERIALS, MATERIAL SAFETY DATA SHEETS, AN INVENTORY OF MATERIALS, AND EMERGENCY CONTACT NUMBERS SHALL BE MAINTAINED AND STORED IN ONE DESIGNATED AREA AND EACH CONTRACTOR IS TO INFORM HIS/HER EMPLOYEES AND THE RESIDENT ENGINEER OF THIS LOCATION.

c. STOCKPILE MANAGEMENT - BMPs SHALL BE IMPLEMENTED TO REDUCE OR ELIMINATE POLLUTION OF STORM WATER FROM STOCKPILES OF SOIL AND PAVING MATERIALS SUCH AS BUT NOT LIMITED TO PORTLAND CEMENT CONCRETE RUBBLE, ASPHALT CONCRETE, ASPHALT CONCRETE RUBBLE, AGGREGATE BASE, AGGREGATE SUB BASE, AND PRE-MIXED AGGREGATE. THE FOLLOWING BMPs MAY BE CONSIDERED:

- PERIMETER EROSION BARRIER
- TEMPORARY SEEDING
- TEMPORARY MULCH
- PLASTIC COVERS
- SOIL BINDERS
- STORM DRAIN INLET PROTECTION

THE CONTRACTOR WILL PROVIDE THE RESIDENT ENGINEER WITH A WRITTEN PLAN OF THE PROCEDURES (SHE WILL USE ON THE PROJECT AND HOW THEY WILL BE MAINTAINED).

d. WASTE DISPOSAL. NO MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.

e. THE PROVISIONS OF THIS PLAN SHALL ENSURE AND DEMONSTRATE COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.

f. THE CONTRACTOR SHALL PROVIDE A WRITTEN AND GRAPHIC PLAN TO THE RESIDENT ENGINEER IDENTIFYING WHERE EACH OF THE ABOVE AREAS WILL BE LOCATED AND HOW THEY ARE TO BE MANAGED.

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR

USER NAME = John Keeven
 PLOT SCALE = 1,0000' / IN.
 PLOT DATE = 4/14/2010

DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

STORM WATER POLLUTION PREVENTION PLAN
 ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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5. APPROVED STATE OR LOCAL LAWS

THE MANAGEMENT PRACTICES, CONTROLS AND PROVISIONS CONTAINED IN THIS PLAN WILL BE IN ACCORDANCE WITH IDOT SPECIFICATIONS, WHICH ARE AT LEAST AS PROTECTIVE AS THE REQUIREMENTS CONTAINED IN THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY'S ILLINOIS URBAN MANUAL, 1995. PROCEDURES AND REQUIREMENTS SPECIFIED IN APPLICABLE SEDIMENT AND EROSION SITE PLANS OR STORM WATER MANAGEMENT PLANS APPROVED BY LOCAL OFFICIALS SHALL BE DESCRIBED OR INCORPORATED BY REFERENCE IN THE SPACE PROVIDED BELOW. REQUIREMENTS SPECIFIED IN SEDIMENT AND EROSION SITE PLANS, SITE PERMITS, STORM WATER MANAGEMENT SITE PLANS OR SITE PERMITS APPROVED BY LOCAL OFFICIALS THAT ARE APPLICABLE TO PROTECTING SURFACE WATER RESOURCES ARE, UPON SUBMITTAL OF AN NOI, TO BE AUTHORIZED TO DISCHARGE UNDER PERMIT ILR10 INCORPORATED BY REFERENCE AND ARE ENFORCEABLE UNDER THIS PERMIT EVEN IF THEY ARE NOT SPECIFICALLY INCLUDED IN THE PLAN.

DESCRIPTION OF PROCEDURES AND REQUIREMENTS SPECIFIED IN APPLICABLE SEDIMENT AND EROSION SITE PLANS OR STORM WATER MANAGEMENT PLANS APPROVED BY LOCAL OFFICIALS:
 ALL MANAGEMENT PRACTICES, CONTROLS, AND OTHER PROVISIONS PROVIDED IN THIS PLAN ARE IN ACCORDANCE WITH "IDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND THE ILLINOIS URBAN MANUAL".

III. MAINTENANCE:

THE FOLLOWING IS A DESCRIPTION OF PROCEDURES THAT WILL BE USED TO MAINTAIN, IN GOOD AND EFFECTIVE OPERATING CONDITIONS, THE VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN. THE RESIDENT ENGINEER WILL PROVIDE MAINTENANCE GUIDES TO THE CONTRACTOR FOR THE PRACTICES ASSOCIATED WITH THIS PROJECT.

CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF IN COMPLIANCE WITH ENVIRONMENTAL LAW AND EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE. THE CONSTRUCTION FIELD ENGINEER ON A WEEKLY BASIS SHALL INSPECT THE PROJECT TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER CONTROL IS NECESSARY. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION SYSTEMS SHALL BE DISPOSED ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER.

ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL (0.5 OR GREATER IN A 24 HOUR PERIOD). THE FOLLOWING ITEMS WILL BE CHECKED:

1. SEEDING - ALL ERODIBLE BARE EARTH AREAS WILL BE TEMPORARILY SEEDED AND INSPECTED ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODIBLE SURFACE WITHIN THE CONTRACT LIMITS.
2. PERIMETER EROSION BARRIER - SEDIMENT WILL BE REMOVED IF THE INTEGRITY OF THE FENCING IS IN JEOPARDY AND ANY FENCING KNOCKED DOWN WILL BE REPAIRED IMMEDIATELY.

ALL MAINTENANCE OF THE EROSION CONTROL SYSTEMS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL LOCATIONS WHERE VEHICLES ENTER AND EXIT THE CONSTRUCTION SITE AND ALL OTHER AREAS SUBJECT TO EROSION SHOULD ALSO BE INSPECTED PERIODICALLY. INSPECTION OF THESE AREAS SHALL BE MADE AT LEAST ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS OF THE END OF TEACH 0.5 INCH OR GREATER RAINFALL, OR AN EQUIVALENT SNOWFALL.

IV. INSPECTIONS

QUALIFIED PERSONNEL SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE WHICH HAVE NOT YET BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES AND EQUIPMENT ENTER AND EXIT THE SITE. SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL.

A. DISTURBED AREAS, USE AREAS (STORAGE OF MATERIALS, STOCKPILES, MACHINE MAINTENANCE FUELING, ETC.), BORROW SITES, AND WASTE SITES SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS OR POINTS THAT ARE ACCESSIBLE, SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF SITE SEDIMENT TRACKING.

B. BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN SECTION I ABOVE AND POLLUTION PREVENTION MEASURES IDENTIFIED IN SECTION II ABOVE SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. ANY CHANGES TO THIS PLAN RESULTING FROM THE REQUIRED INSPECTIONS SHALL BE IMPLEMENTED WITHIN 1/2 HOUR TO 1 WEEK BASED ON THE URGENCY OF THE SITUATION. THE RESIDENT ENGINEER WILL NOTIFY THE CONTRACTOR OF THE TIME REQUIRED TO IMPLEMENT SUCH ACTIONS THROUGH THE WEEKLY INSPECTION REPORT.

C. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THIS STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH SECTION IV(B) SHALL BE MADE AND RETAINED AS PART OF THE PLAN FOR AT LEAST THREE (3) YEARS AFTER THE DATE OF THE INSPECTION. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PART VI. G OF THE GENERAL PERMIT.

D. IF ANY VIOLATION OF THE PROVISIONS OF THIS PLAN IS IDENTIFIED DURING THE CONDUCT OF THE CONSTRUCTION WORK COVERED BY THIS PLAN, THE RESIDENT ENGINEER SHALL NOTIFY THE APPROPRIATE I.E.P.A. FIELD OPERATIONS SECTION OFFICE BY EMAIL OF: epa.swnoncomp@illinois.gov, TELEPHONE OR FAX WITHIN 24 HOURS OF THE INCIDENT. THE RESIDENT ENGINEER SHALL THEN COMPLETE AND SUBMIT AN "INCIDENCE OF NON-COMPLIANCE" (ION) REPORT FOR THE IDENTIFIED VIOLATION WITHIN 5 DAYS OF THE INCIDENT. THE RESIDENT ENGINEER SHALL USE FORMS PROVIDED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND SHALL INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT WHICH MAY HAVE RESULTED FROM THE NONCOMPLIANCE. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY A RESPONSIBLE AUTHORITY IN ACCORDANCE WITH PART VI. G OF THE GENERAL PERMIT.

THE INCIDENCE OF NONCOMPLIANCE SHALL BE MAILED TO THE FOLLOWING ADDRESS:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
 DIVISION OF WATER POLLUTION CONTROL
 ATTN: COMPLIANCE ASSURANCE SECTION
 1021 NORTH GRAND EAST
 POST OFFICE BOX 19276
 SPRINGFIELD, ILLINOIS 62794-9276

V. NON-STORM WATER DISCHARGES:

EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER THAT IS COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY ADDRESSED IN THIS PLAN MUST BE DESCRIBED BELOW. APPROPRIATE POLLUTION PREVENTION MEASURES, AS DESCRIBED BELOW, WILL BE IMPLEMENTED FOR THE NON-STORM WATER COMPONENT(S) OF THE DISCHARGE.

A. SPILL PREVENTION AND CONTROL - BMPs SHALL BE IMPLEMENTED TO CONTAIN AND CLEAN-UP SPILLS AND PREVENT MATERIAL DISCHARGES TO THE STORM DRAIN SYSTEM. THE CONTRACTOR SHALL PRODUCE A WRITTEN PLAN STATING HOW HIS/HER COMPANY WILL PREVENT, REPORT, AND CLEAN UP SPILLS AND PROVIDE A COPY TO ALL OF HIS/HER EMPLOYEES AND THE RESIDENT ENGINEER. THE CONTRACTOR SHALL NOTIFY ALL OF HIS/HER EMPLOYEES ON THE PROPER PROTOCOL FOR REPORTING SPILLS. THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER OF ANY SPILLS IMMEDIATELY.

B. CONCRETE RESIDUALS AND WASHOUT WASTES - THE FOLLOWING BMPs SHALL BE IMPLEMENTED TO CONTROL RESIDUAL CONCRETE, CONCRETE SEDIMENTS, AND RINSE WATER:

1. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED FOR RINSING OUT CONCRETE TRUCKS. SIGNS SHALL BE INSTALLED DIRECTING CONCRETE TRUCK DRIVERS WHERE DESIGNATED WASHOUT FACILITIES ARE LOCATED.
2. THE CONTRACTOR SHALL HAVE THE LOCATION OF TEMPORARY CONCRETE WASHOUT FACILITIES APPROVED BY THE RESIDENT ENGINEER.
3. ALL TEMPORARY CONCRETE WASHOUT FACILITIES ARE TO BE INSPECTED BY THE CONTRACTOR AFTER EACH USE AND ALL SPILLS MUST BE REPORTED TO THE RESIDENT ENGINEER AND CLEANED UP IMMEDIATELY.
4. CONCRETE WASTE SOLIDS/LIQUIDS SHALL BE DISPOSED OF PROPERLY.

C. LITTER MANAGEMENT - A PROPER NUMBER OF DUMPSTERS SHALL BE PROVIDED ON SITE TO HANDLE DEBRIS AND LITTER ASSOCIATED WITH THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING HIS/HER EMPLOYEES PLACE ALL LITTER INCLUDING MARKING PAINT CANS, SODA CANS, FOOD WRAPPERS, WOOD LATHE, MARKING RIBBON, CONSTRUCTION STRING, AND ALL OTHER CONSTRUCTION RELATED LITTER IN THE PROPER DUMPSTERS.

D. VEHICLE AND EQUIPMENT CLEANING - VEHICLES AND EQUIPMENT ARE TO BE CLEANED IN DESIGNATED AREAS ONLY, PREFERABLY OFF SITE.

E. VEHICLE AND EQUIPMENT FUELING - A VARIETY OF BMPs CAN BE IMPLEMENTED DURING FUELING OF VEHICLES AND EQUIPMENT TO PREVENT POLLUTION. THE CONTRACTOR SHALL INFORM THE RESIDENT ENGINEER AS TO WHICH BMPs WILL BE USED ON THE PROJECT. THE CONTRACTOR SHALL INFORM THE RESIDENT ENGINEER HOW (SHE WILL BE INFORMING HIS/HER EMPLOYEES OF THESE BMPs (I.E. SIGNS, TRAINING, ETC.). BELOW ARE A FEW EXAMPLES OF THESE BMPs:

1. CONTAINMENT
2. SPILL PREVENTION AND CONTROL
3. USE OF DRIP PANS AND ABSORBENTS
4. AUTOMATIC SHUT-OFF NOZZLES
5. TOPPING OFF RESTRICTIONS
6. LEAK INSPECTION AND REPAIR

F. VEHICLE AND EQUIPMENT MAINTENANCE - ON SITE MAINTENANCE MUST BE PERFORMED IN ACCORDANCE WITH ALL ENVIRONMENTAL LAWS SUCH AS PROPER STORAGE AND NO DUMPING OF OLD ENGINE OIL OR OTHER FLUIDS ON SITE.

VI. FAILURE TO COMPLY:

FAILURE TO COMPLY WITH ANY PROVISIONS OF THIS STORM WATER POLLUTION PREVENTION PLAN WILL RESULT IN THE IMPLEMENTATION OF AN EROSION AND SEDIMENT CONTROL DEFICIENCY DEDUCTION AGAINST THE CONTRACTOR AND/OR PENALTIES UNDER THE NPDES PERMIT WHICH COULD BE PASSED ONTO THE CONTRACTOR.



Contractor Certification Statement

The Resident Engineer is to make copies of this form and every contractor and sub-contractor will be required to complete their own separate form.

Route FA 999 Marked Rt. I-70
 Section 82-1B-2 Project No. D-98-066-09
 County St. Clair Contract No. 76D61

This certification statement is part of the Storm Water Pollution Prevention Plan for the project described below, in accordance with General NPDES Permit No. ILR10 issued by the Illinois Environmental Protection Agency.

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR 10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

In addition, I have read and understand all of the information and requirements stated in the Storm Water Pollution Prevention Plan for the above mentioned project; I have provided all documentation required to be in compliance with the ILR10 and Storm Water Pollution Prevention Plan and will provide timely updates to these documents as necessary.

- Contractor
- Sub-Contractor

_____	_____
Print Name	Signature
_____	_____
Title	Date
_____	_____
Name of Firm	Telephone
_____	_____
Street Address	City/State/ZIP

LEGEND

- AGGREGATE DITCH CHECKS (HEIGHT OF 1.5')
- PERIMETER EROSION BARRIER- SILT FILTER FENCE OR OTHER AS APPROVED BY THE ENGINEER

CONTRACT NO. 76D61

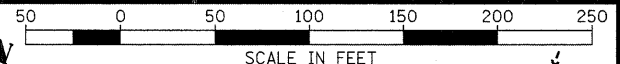
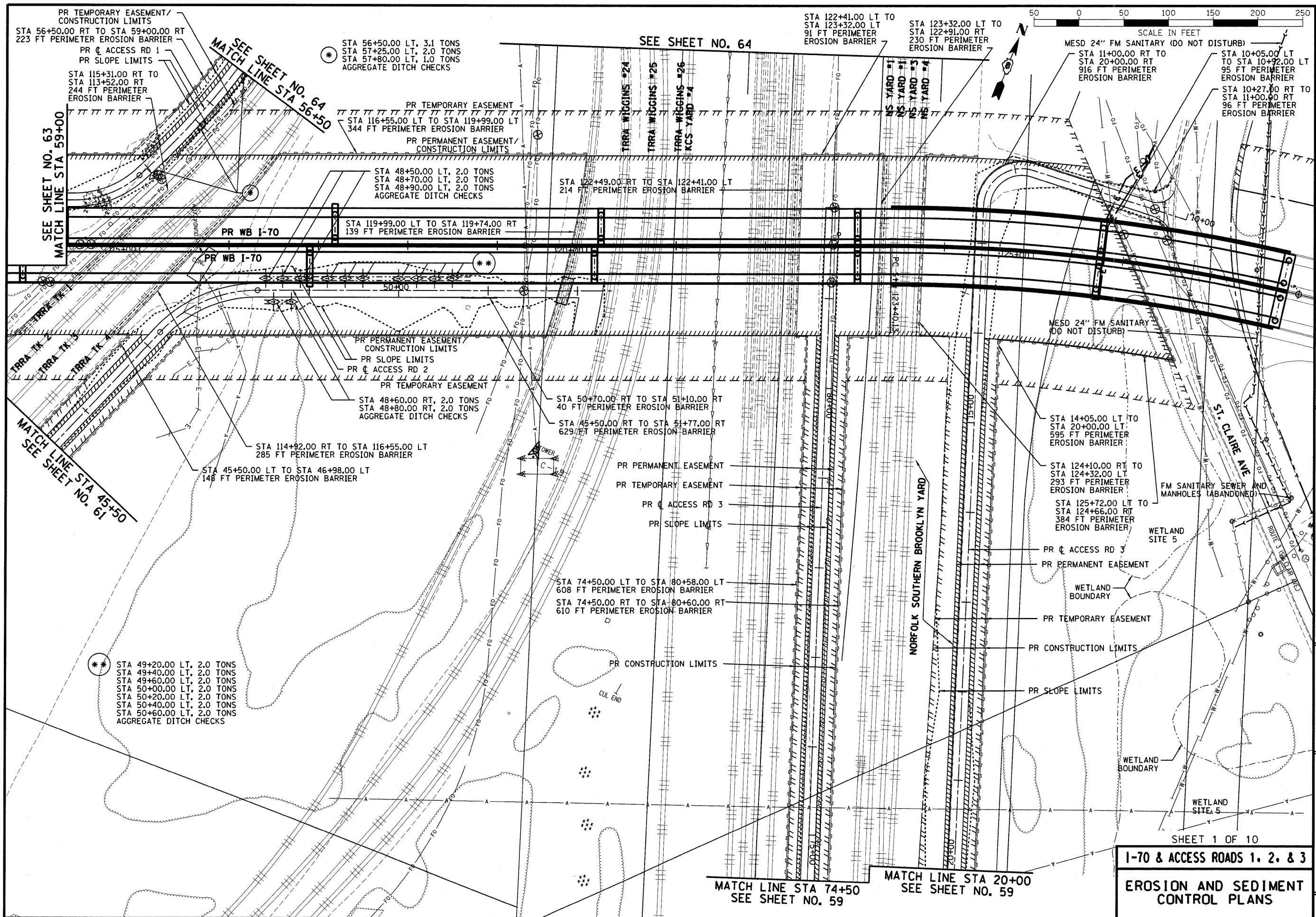
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

STORM WATER POLLUTION PREVENTION PLAN
ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY NO. 001270

CMT
 CRANFORD, MURPHY & TILLY, INC.
 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631



CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
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PLOT SCALE = 50,000' / IN.	
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CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

EROSION AND SEDIMENT CONTROL PLANS

ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STA. 54+00 TO STA. 59+00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

HNTB

715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY NO. 001270

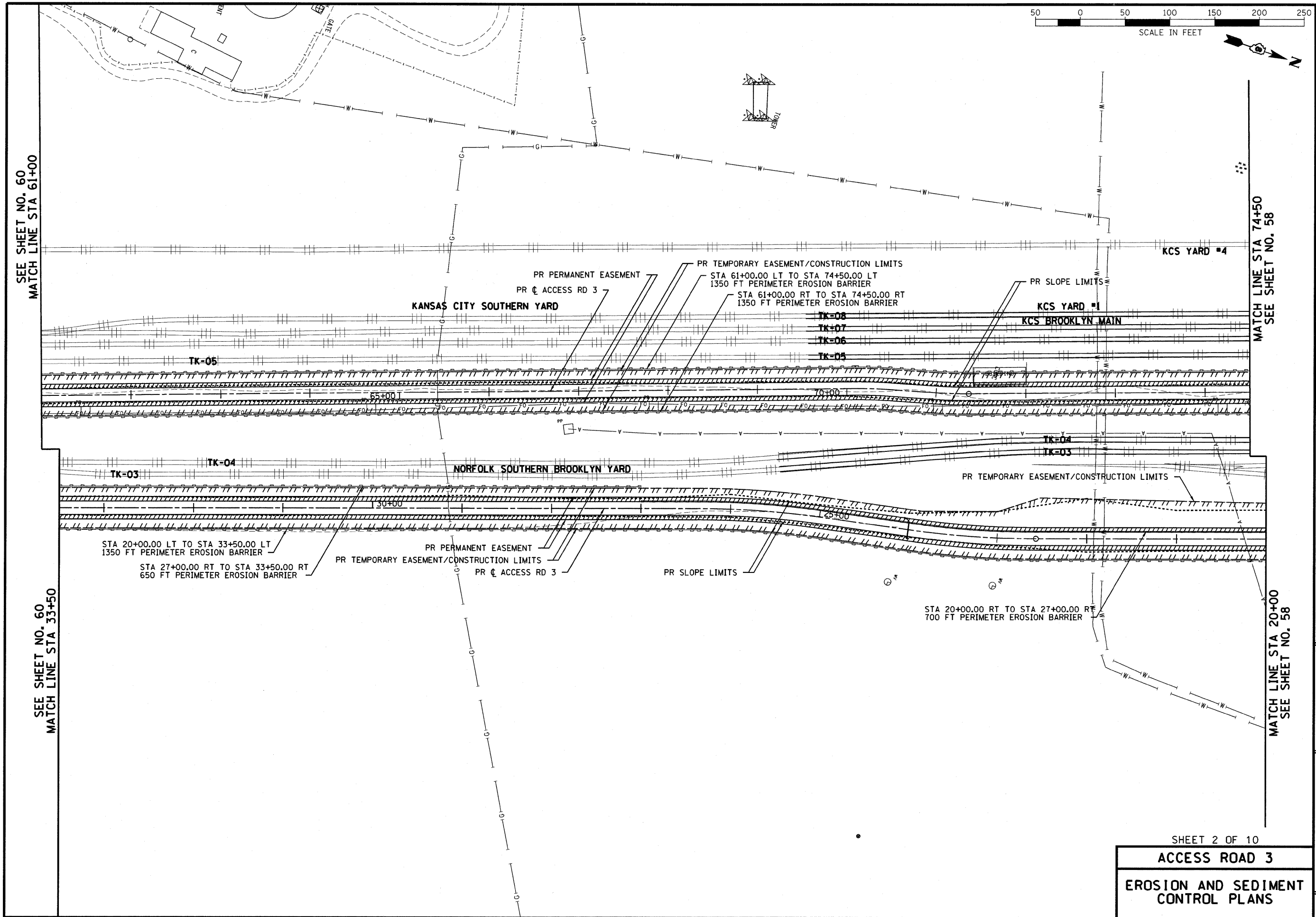
CMT

CRANFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

SHEET 1 OF 10

1-70 & ACCESS ROADS 1, 2, & 3

EROSION AND SEDIMENT CONTROL PLANS



CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

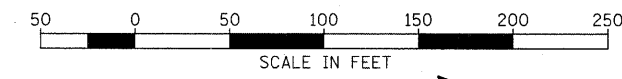
EROSION AND SEDIMENT CONTROL PLANS	ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
	STA. 61 + 00 TO STA. 74 + 50

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY NO. 001270

CMT
 CRANFORD, MURPHY & TILLY, INC.
 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631

SHEET 2 OF 10
ACCESS ROAD 3
EROSION AND SEDIMENT CONTROL PLANS



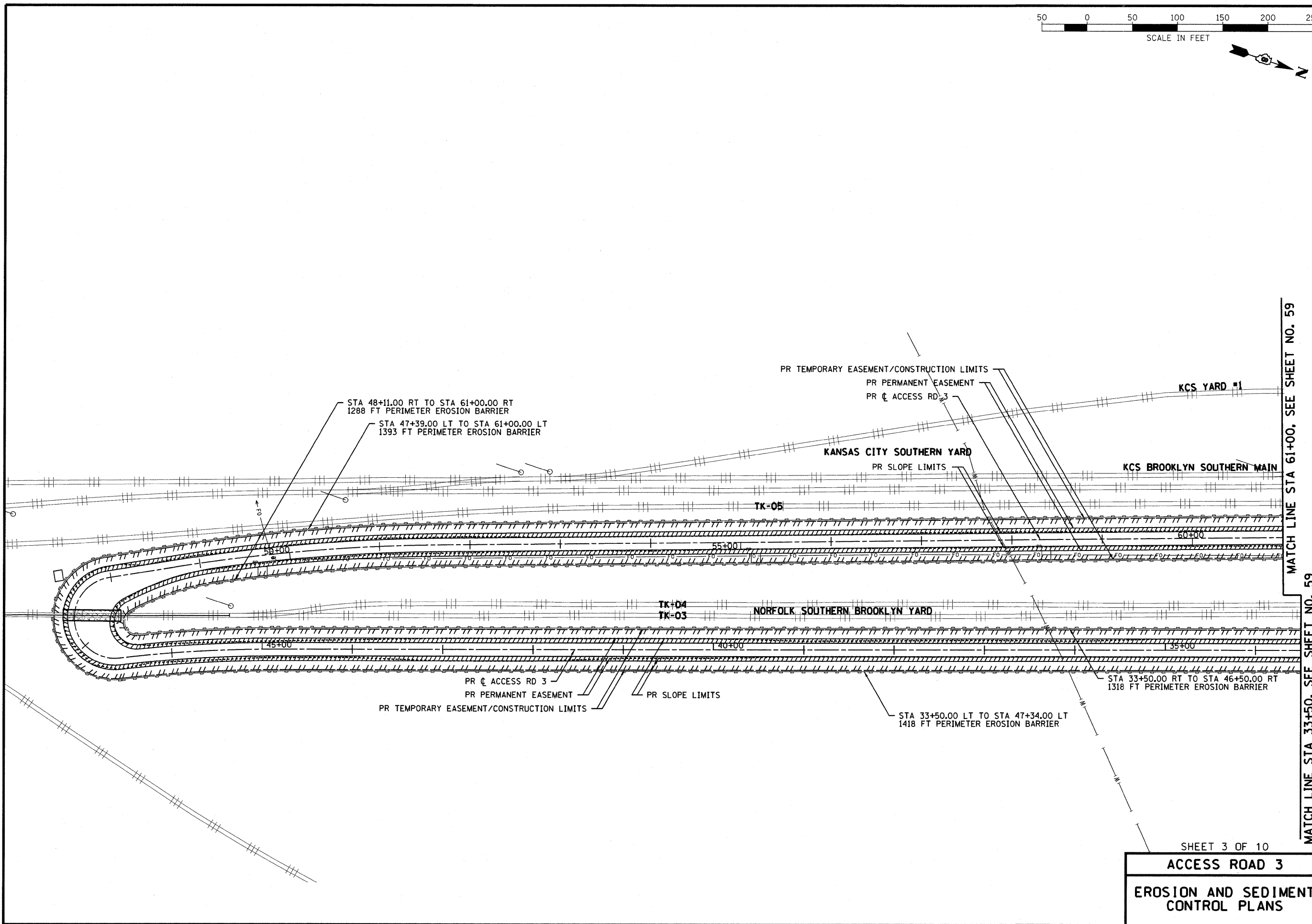
CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

EROSION AND SEDIMENT CONTROL PLANS	ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
	STA. 33+50 TO STA. 61+00

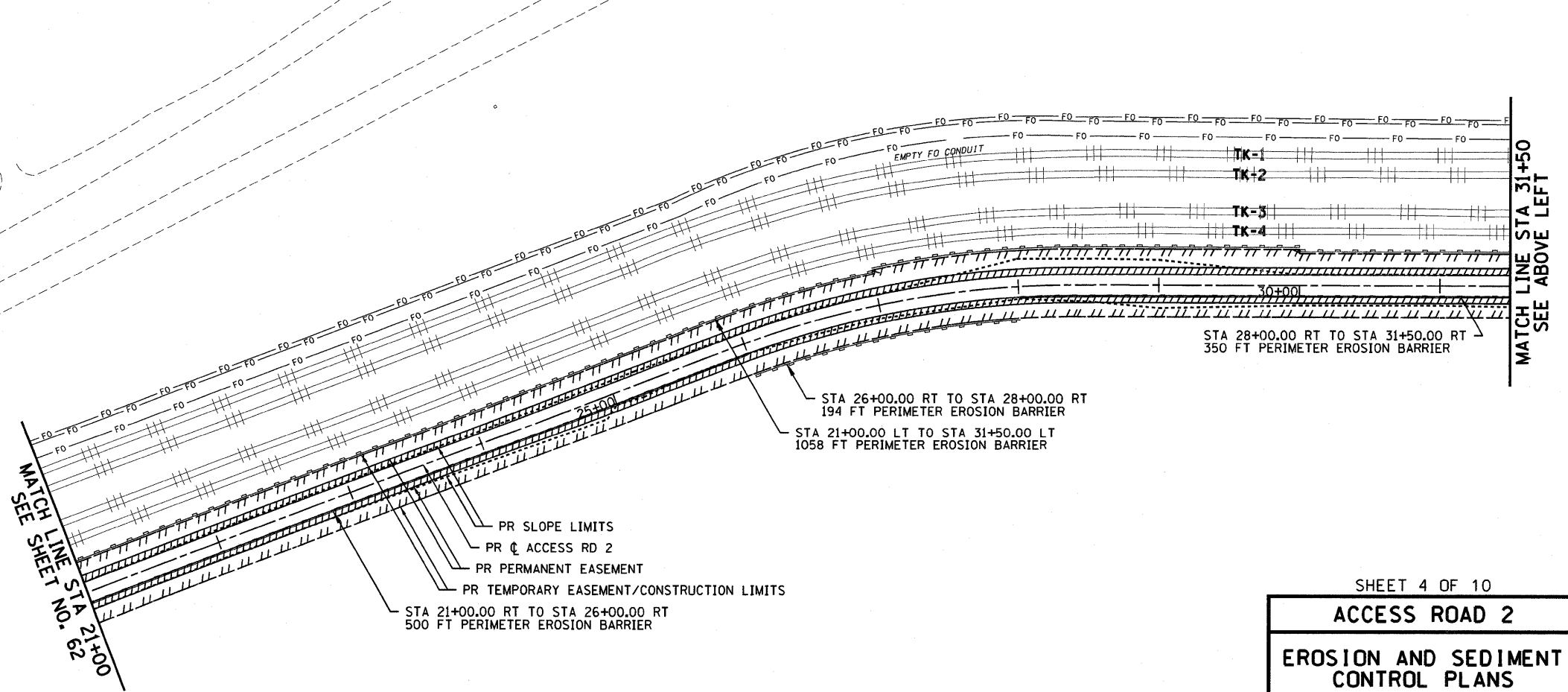
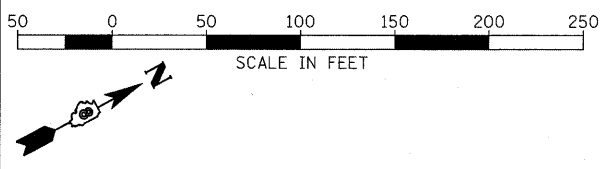
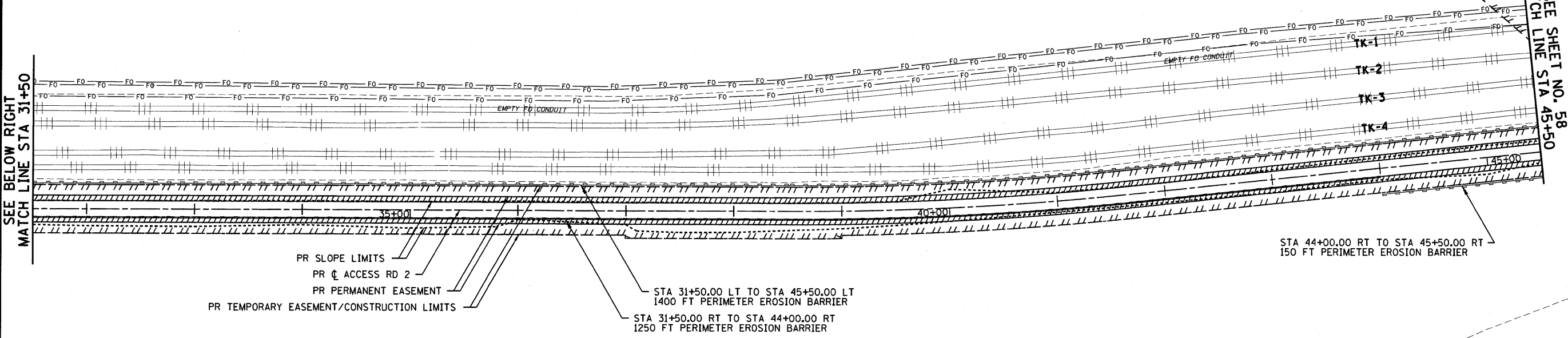
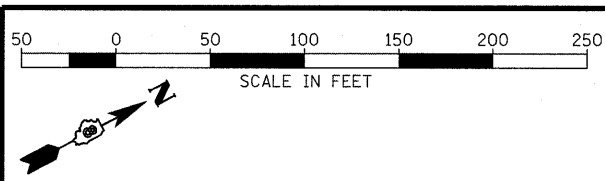
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CMT
CRANFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631



SHEET 3 OF 10
ACCESS ROAD 3
EROSION AND SEDIMENT CONTROL PLANS



CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50,0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

EROSION AND SEDIMENT CONTROL PLANS

ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STA. 21 + 00 TO STA. 45 + 50

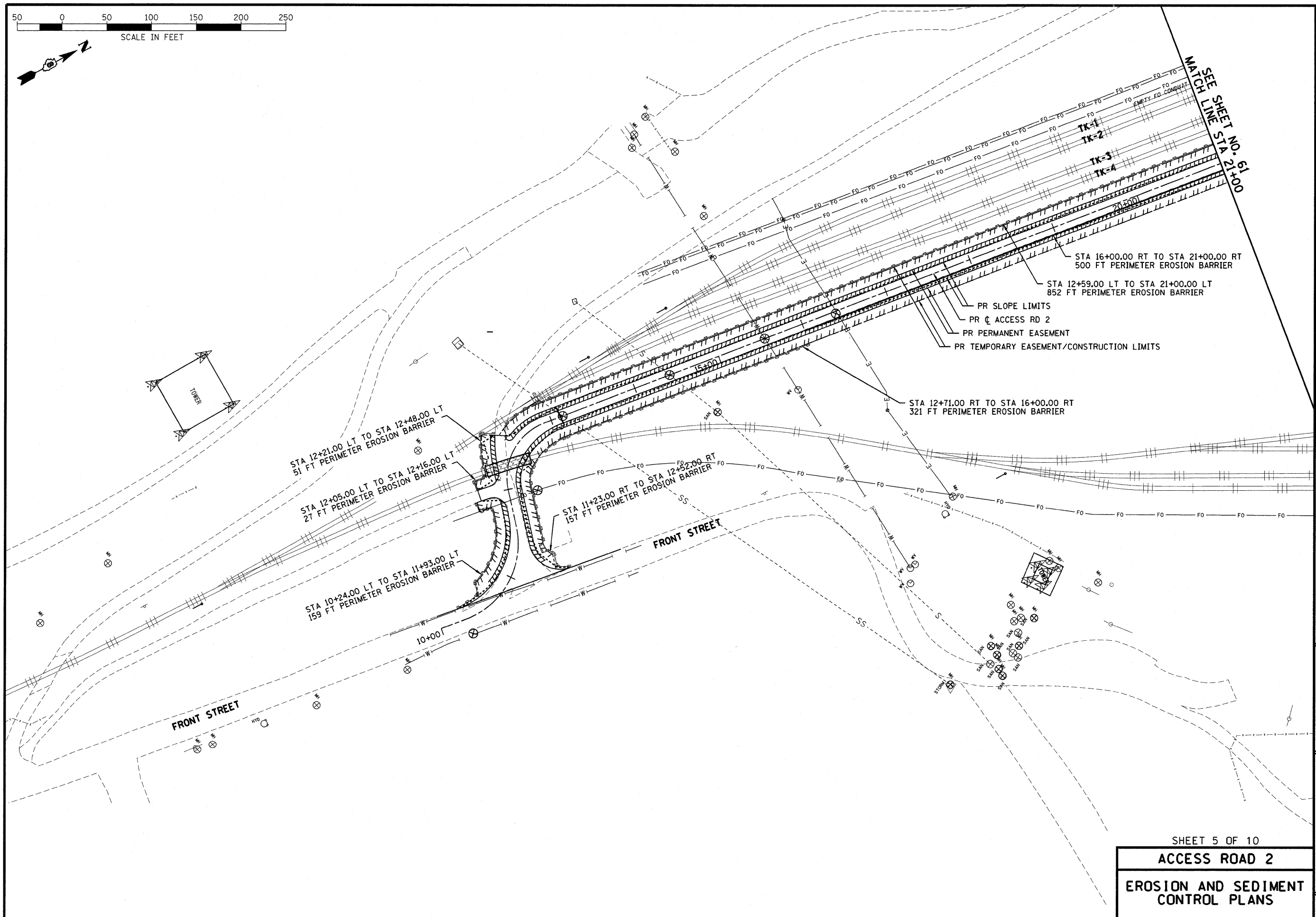
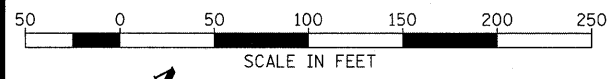
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY NO. 001270

CMT
CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

SHEET 4 OF 10
ACCESS ROAD 2
EROSION AND SEDIMENT CONTROL PLANS



CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

EROSION AND SEDIMENT CONTROL PLANS
 ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
 STA. 21 + 00 TO FRONT STREET

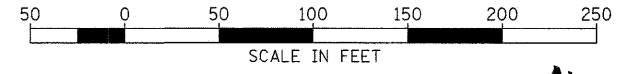
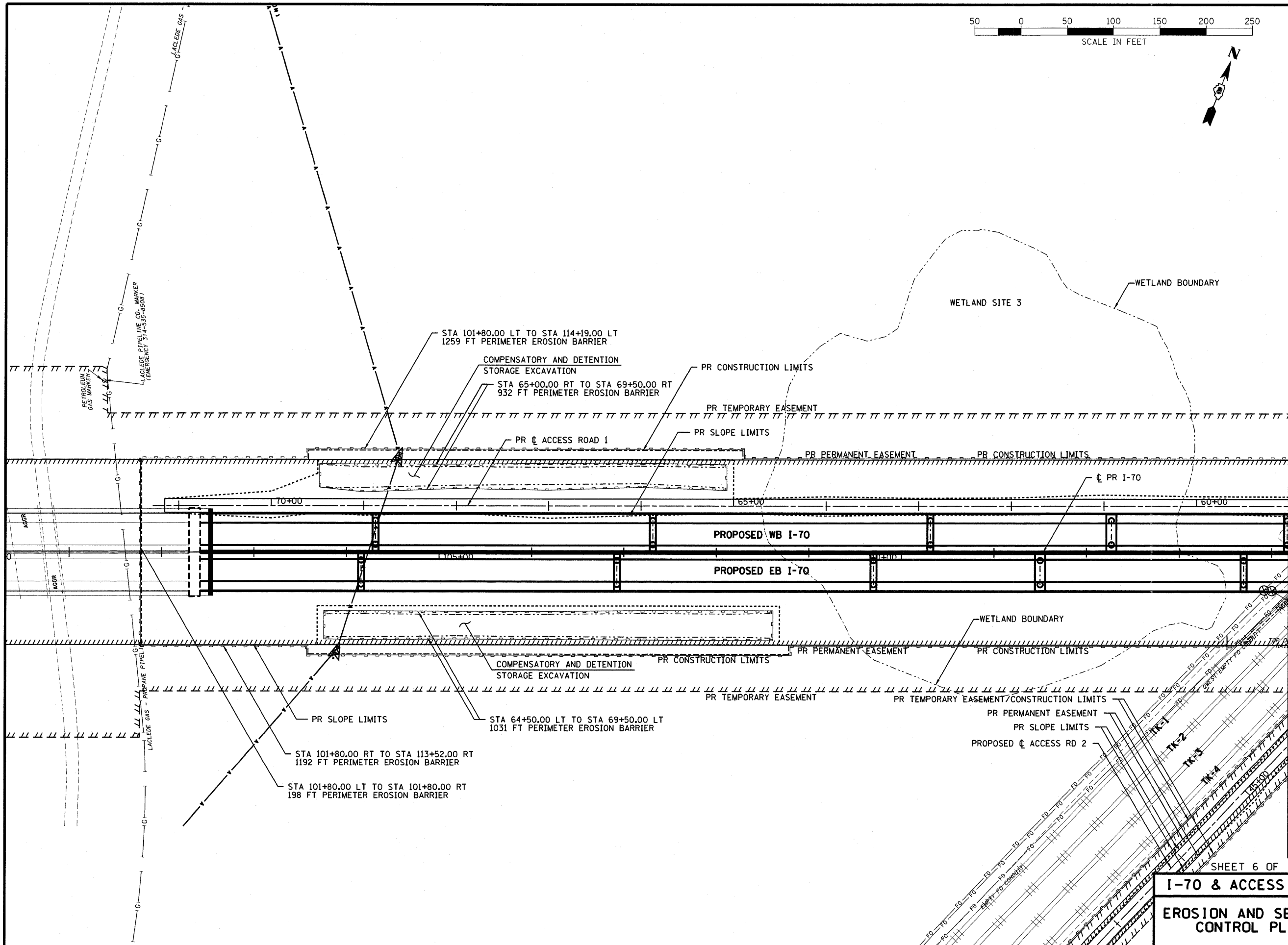
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY NO. 001270

CMT
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 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631

SHEET 5 OF 10
ACCESS ROAD 2
EROSION AND SEDIMENT CONTROL PLANS

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MATCHLINE STA 59+00
SEE SHEET NO. 58

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50,0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
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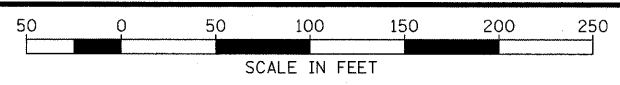
EROSION AND SEDIMENT CONTROL PLANS
 ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
 STA. 59 + 00 TO STA. 71 + 00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 MISSOURI HIGHWAYS
 AND TRANSPORTATION COMMISSION

HNTB
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 KANSAS CITY, MO 64105
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 CERTIFICATE OF AUTHORITY NO. 001270

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 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
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**I-70 & ACCESS ROAD 1
EROSION AND SEDIMENT CONTROL PLANS**



SEE SHEET NO. 65
MATCH LINE STA 47+00

STA 47+00.00 LT TO STA 47+50.00 LT
50 FT PERIMETER EROSION BARRIER

PR PERMANENT EASEMENT
PR TEMPORARY EASEMENT/CONSTRUCTION LIMITS
PR ACCESS ROAD 1

STA 47+50.00 LT, 1.0 TONS
STA 49+00.00 LT, 1.0 TONS
STA 50+50.00 LT, 1.0 TONS
STA 52+00.00 LT, 1.0 TONS
AGGREGATE DITCH CHECKS

PR SLOPE LIMITS
STA 47+00.00 RT TO STA 56+50.00 RT
950 FT PERIMETER EROSION BARRIER

STA 53+50.00 LT, 1.0 TONS
STA 55+00.00 LT, 1.8 TONS
STA 55+75.00 LT, 3.3 TONS
STA 56+50.00 LT, 3.1 TONS
AGGREGATE DITCH CHECKS

MATCH LINE STA 56+50
SEE SHEET NO. 58

MATCH LINE SHEET NO. 58

SHEET 7 OF 10

ACCESS ROAD 1

EROSION AND SEDIMENT
CONTROL PLANS

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
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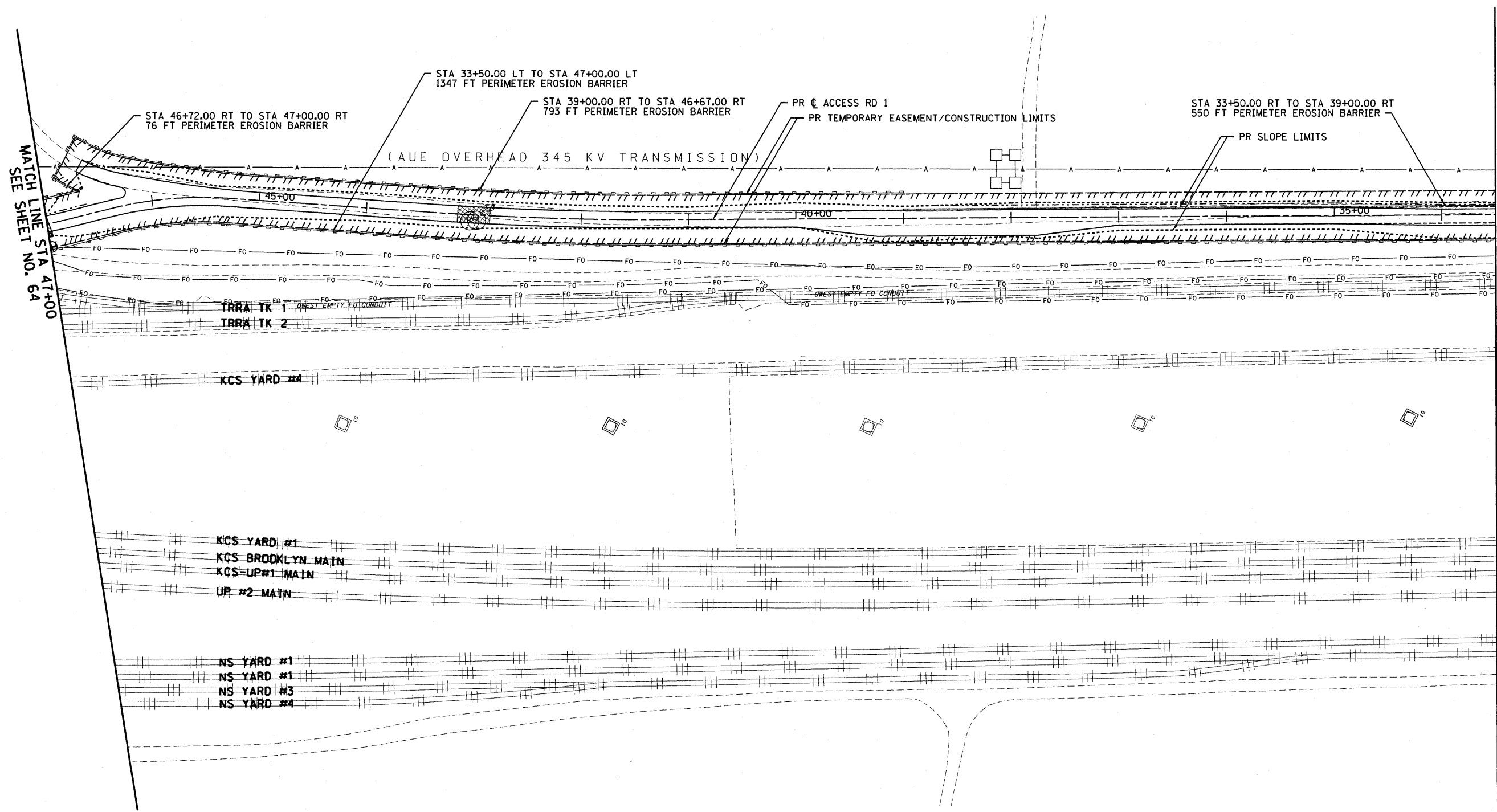
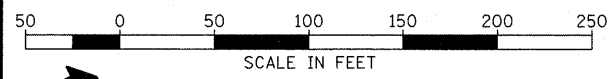
**EROSION AND SEDIMENT
CONTROL PLANS**
ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
STA. 47 + 00 TO STA. 56 + 50

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CMT
CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

SHEET 64 OF 81



MATCH LINE STA 47+00
SEE SHEET NO. 64

MATCH LINE STA 33+50
SEE SHEET NO. 66

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keaven	
PLOT SCALE = 50,0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

EROSION AND SEDIMENT CONTROL PLANS
ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
STA. 33+50 TO STA. 47+00

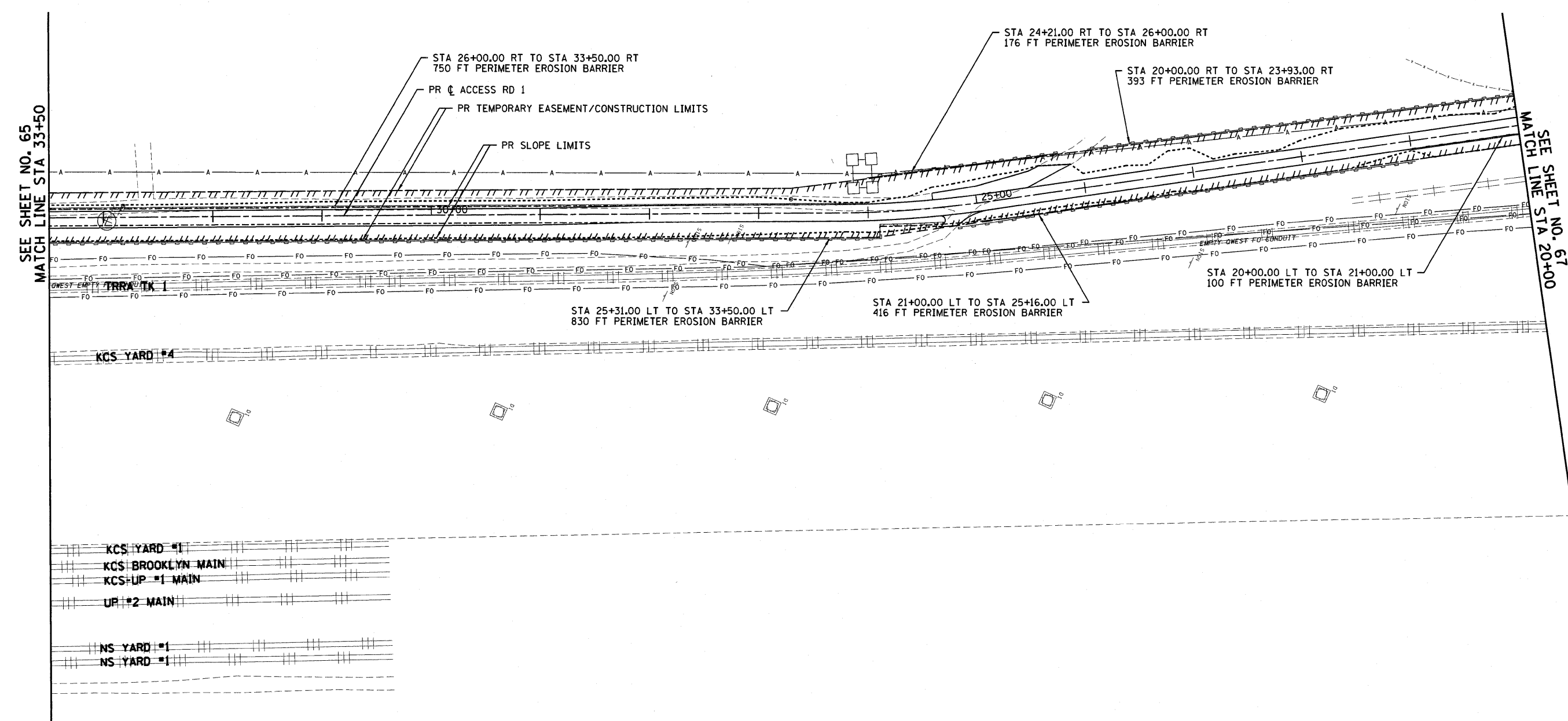
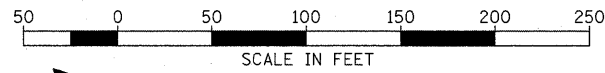
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY NO. 001270

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2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

SHEET 8 OF 10
ACCESS ROAD 1
EROSION AND SEDIMENT CONTROL PLANS

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SEE SHEET NO. 65
MATCH LINE STA 33+50

SEE SHEET NO. 67
MATCH LINE STA 20+00

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

EROSION AND SEDIMENT CONTROL PLANS
ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
STA. 20 + 00 TO STA. 33 + 50

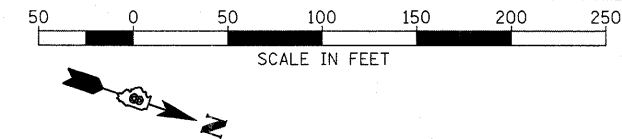
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

HNTB
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KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY NO. 001270

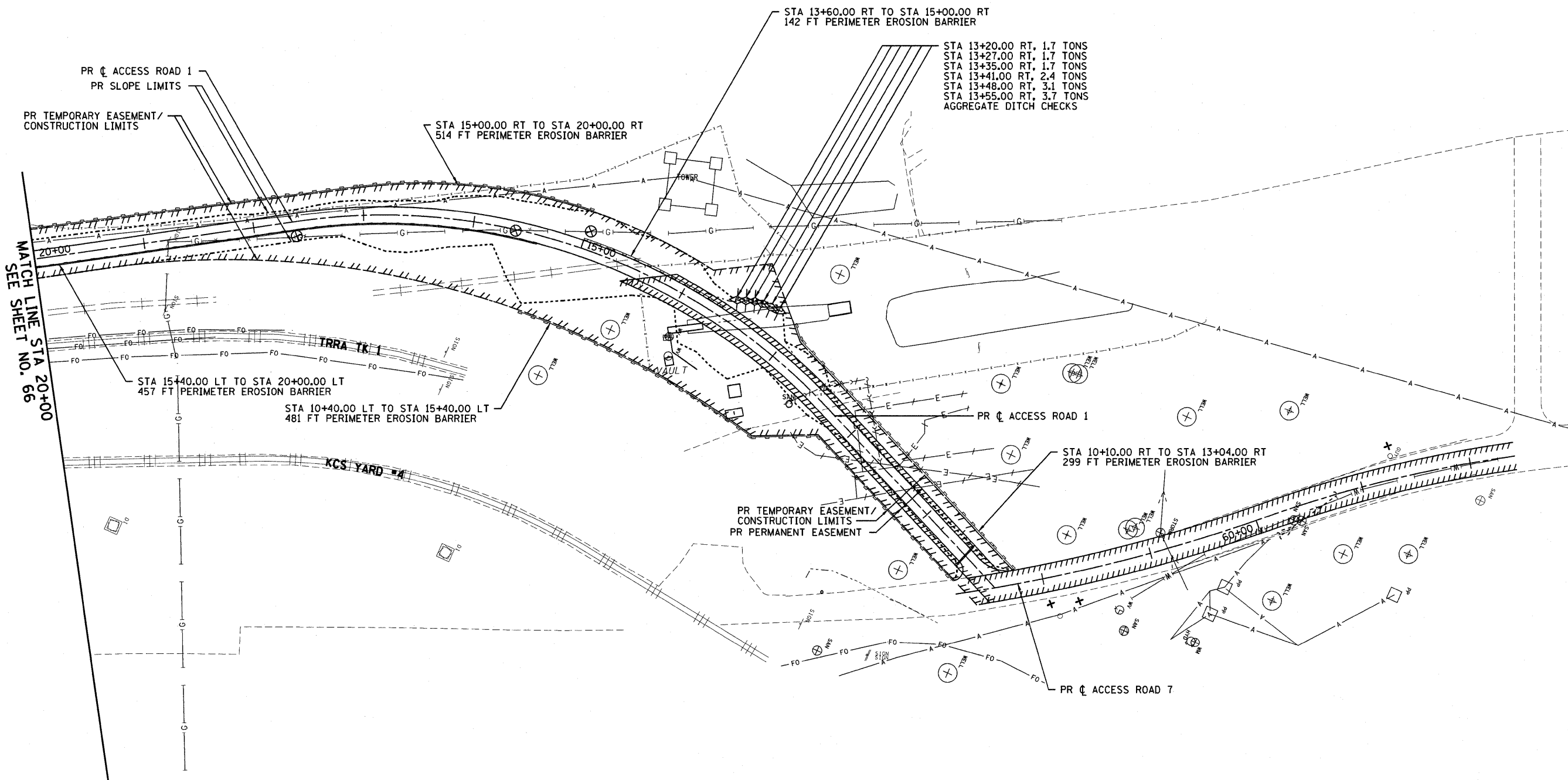
CMT
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2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

SHEET 9 OF 10
ACCESS ROAD 1
EROSION AND SEDIMENT CONTROL PLANS

s:\Ito+\090660\draw_idot\CADD_Sheets\D8066-sh1-eros.dgn



CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 50.0000' / IN.	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	



EROSION AND SEDIMENT CONTROL PLANS
ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
STA. 10 + 09.43 TO STA. 20 + 00
STA. 57 + 29.24 TO STA. 62 + 40.72

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**
**MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION**

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

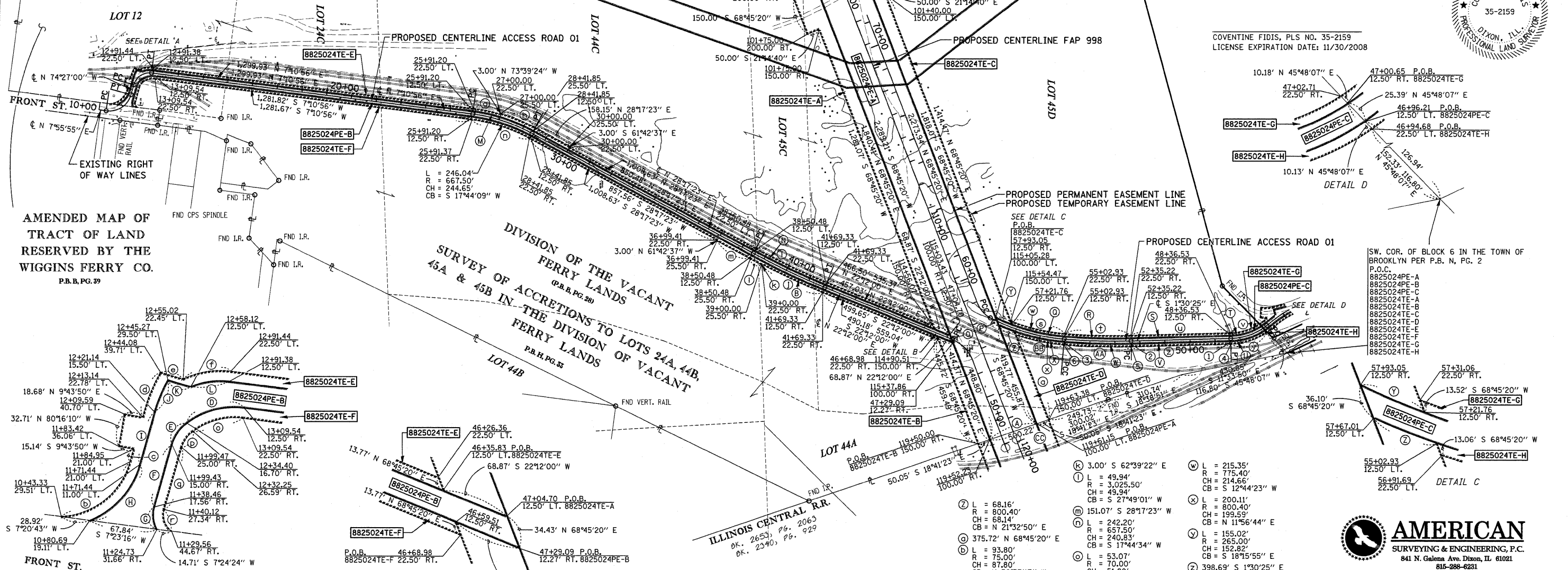
CMT
CRAWFORD, MURPHY & TILLY, INC.
2150 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

SHEET 10 OF 10
ACCESS ROADS 1 & 7
EROSION AND SEDIMENT CONTROL PLANS

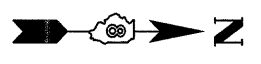
PART OF SECTION 2 & 11, T2N, R10W, OF THE 4TH PM, ST. CLAIR COUNTY, ILLINOIS

PROP. CURVE PRACCO2-1	PROP. CURVE PRACCO2-2	PROP. CURVE PRACCO2-3	PROP. CURVE PRACCO2-4	PROP. CURVE PRACCO2-5
PI STA. = 11+07.48 Δ = 82°22'55" (LT) T = 78.76' L = 129.41' R = 90.00' C = 118.54' C.B. = N 33°15'32" W P.C. STA. = 10+28.72 P.T. STA. = 11+58.12	PI STA. = 12+55.45 Δ = 81°37'56" (RT) T = 56.14' L = 92.61' R = 65.00' C = 84.97' C.B. = N 33°38'02" W P.C. STA. = 11+99.31 P.T. STA. = 12+91.92	PI STA. = 27+17.97 Δ = 21°06'27" (RT) T = 126.69' L = 250.51' R = 680.00' C = 249.10' C.B. = N 17°44'09" E P.C. STA. = 25+91.27 P.T. STA. = 28+41.78	PI STA. = 40+10.06 Δ = 6°05'22" (LT) T = 159.58' L = 318.85' R = 3,000.00' C = 318.70' C.B. = N 25°14'42" E P.C. STA. = 38+50.48 P.T. STA. = 41+69.33	PI STA. = 47+84.94 Δ = 46°33'20" (RT) T = 64.53' L = 121.88' R = 150.00' C = 118.56' C.B. = N 45°28'40" E P.C. STA. = 47+20.41 P.T. STA. = 48+42.29

PROP. CURVE 1111-4	PROP. CURVE 1111-5	PROP. CURVE 1111-6	PROP. CURVE 1111-7	PROP. CURVE 1111-8	PROP. CURVE 1111-9
PI STA. = 42+23.54 Δ = 4°41'38" (RT) T = 122.65' L = 245.15' R = 2,992.50' C = 92.61' C.B. = 65.00' P.C. STA. = 41+00.89 P.T. STA. = 43+46.04	PI STA. = 45+85.44 Δ = 17°59'15" (LT) T = 56.58' L = 112.23' R = 357.50' C = 92.61' C.B. = 65.00' P.C. STA. = 45+28.86 P.T. STA. = 46+41.09	PI STA. = 47+61.53 Δ = 36°45'32" (RT) T = 80.57' L = 155.58' R = 242.50' C = 92.61' C.B. = 65.00' P.C. STA. = 46+80.95 P.T. STA. = 48+36.53	PI STA. = 53+69.21 Δ = 6°17'25" (RT) T = 133.99' L = 267.71' R = 2,438.52' C = 92.61' C.B. = 65.00' P.C. STA. = 52+35.22 P.T. STA. = 55+02.93	PI STA. = 56+59.64 Δ = 22°29'50" (RT) T = 156.70' L = 309.37' R = 787.90' C = 92.61' C.B. = 65.00' P.C. STA. = 55+02.93 P.T. STA. = 58+12.30	PI STA. = 58+53.95 Δ = 41°28'30" (RT) T = 41.65' L = 79.63' R = 110.00' C = 92.61' C.B. = 65.00' P.C. STA. = 58+12.30 P.T. STA. = 58+91.93



MISSISSIPPI RIVER



STATE OF ILLINOIS)
COUNTY OF LEE) SS
SPACE RESERVED FOR RECORDING OFFICER

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.

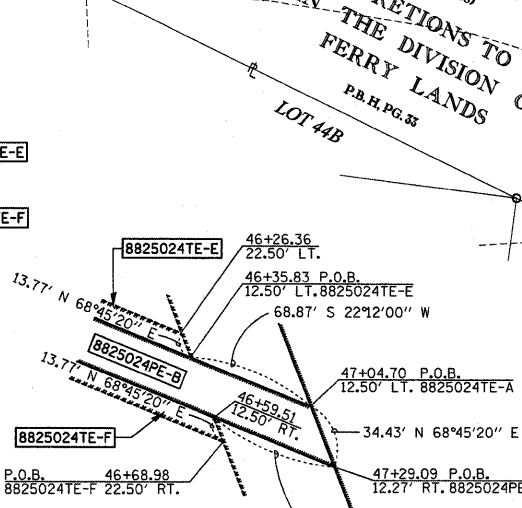
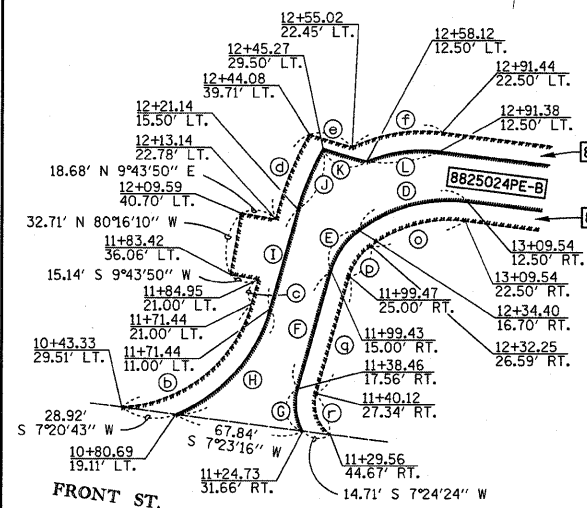
DATED _____
COVENTINE FIDIS, PLS NO. 35-2159
LICENSE EXPIRATION DATE: 11/30/2008



AMENDED MAP OF TRACT OF LAND RESERVED BY THE WIGGINS FERRY CO. P.B.B. PG. 39

DIVISION OF THE VACANT FERRY LANDS (P.B.B. PG. 20)
SURVEY OF ACCRETIONS TO LOTS 24A, 44B, 45A & 45B IN THE DIVISION OF VACANT FERRY LANDS (P.B.B. PG. 33)

SW. COR. OF BLOCK 6 IN THE TOWN OF BROOKLYN PER P.B. N, PG. 2
P.O.B. 8825024PE-A
8825024PE-B
8825024PE-C
8825024TE-A
8825024TE-B
8825024TE-C
8825024TE-D
8825024TE-E
8825024TE-F
8825024TE-G
8825024TE-H



PART OF SECTION 2 & 11, T2N, R10W, OF THE 3RD PM, ST. CLAIR COUNTY, ILLINOIS



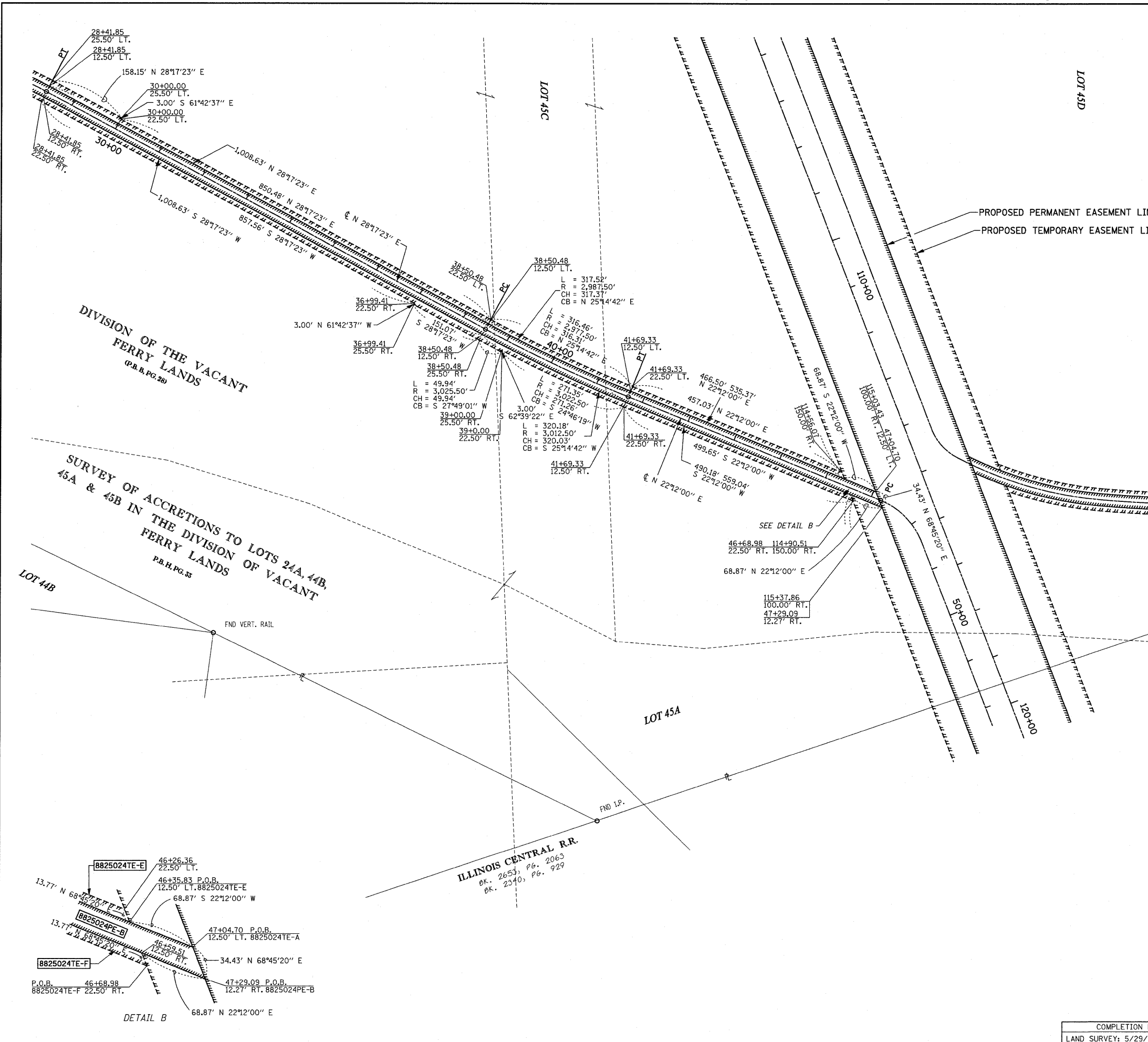
STATE OF ILLINOIS)
 COUNTY OF LEE) SS

SPACE RESERVED FOR RECORDING OFFICER

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: 11/30/2008



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAP ROUTE 799 (IL 3)
 SECTION 82-2-1B
 ST. CLAIR COUNTY
 JOB NO. R-98-025-08
 STATION 95+56 TO STATION 120+00

SCALE: 1" = 200'

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799		ST. CLAIR	81	69

COMPLETION DATE OF FIELD WORK PERFORMED
 LAND SURVEY: 5/29/09 ROW STAKING:

CONTRACT NO. 78D61
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

MISSISSIPPI RIVER



STATE OF ILLINOIS)
) SS
 COUNTY OF LEE)

SPACE RESERVED FOR RECORDING OFFICER

AMENDED MAP OF
 TRACT OF LAND
 RESERVED BY THE
 WIGGINS FERRY CO.
 P.B.B. PG. 39

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: 11/30/2008

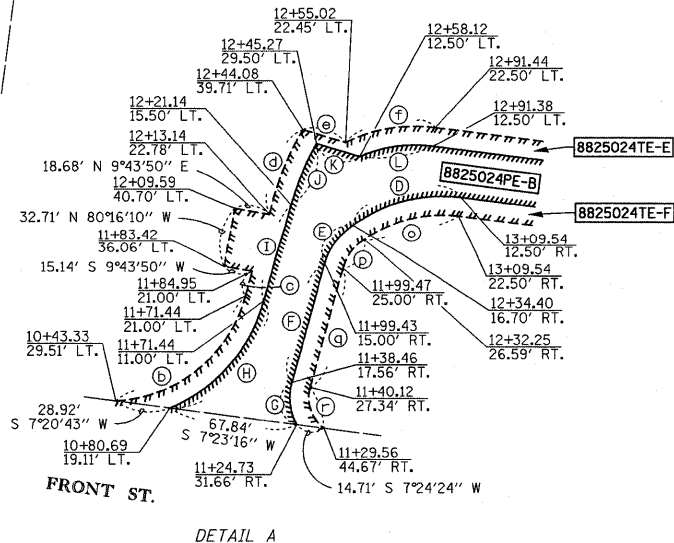
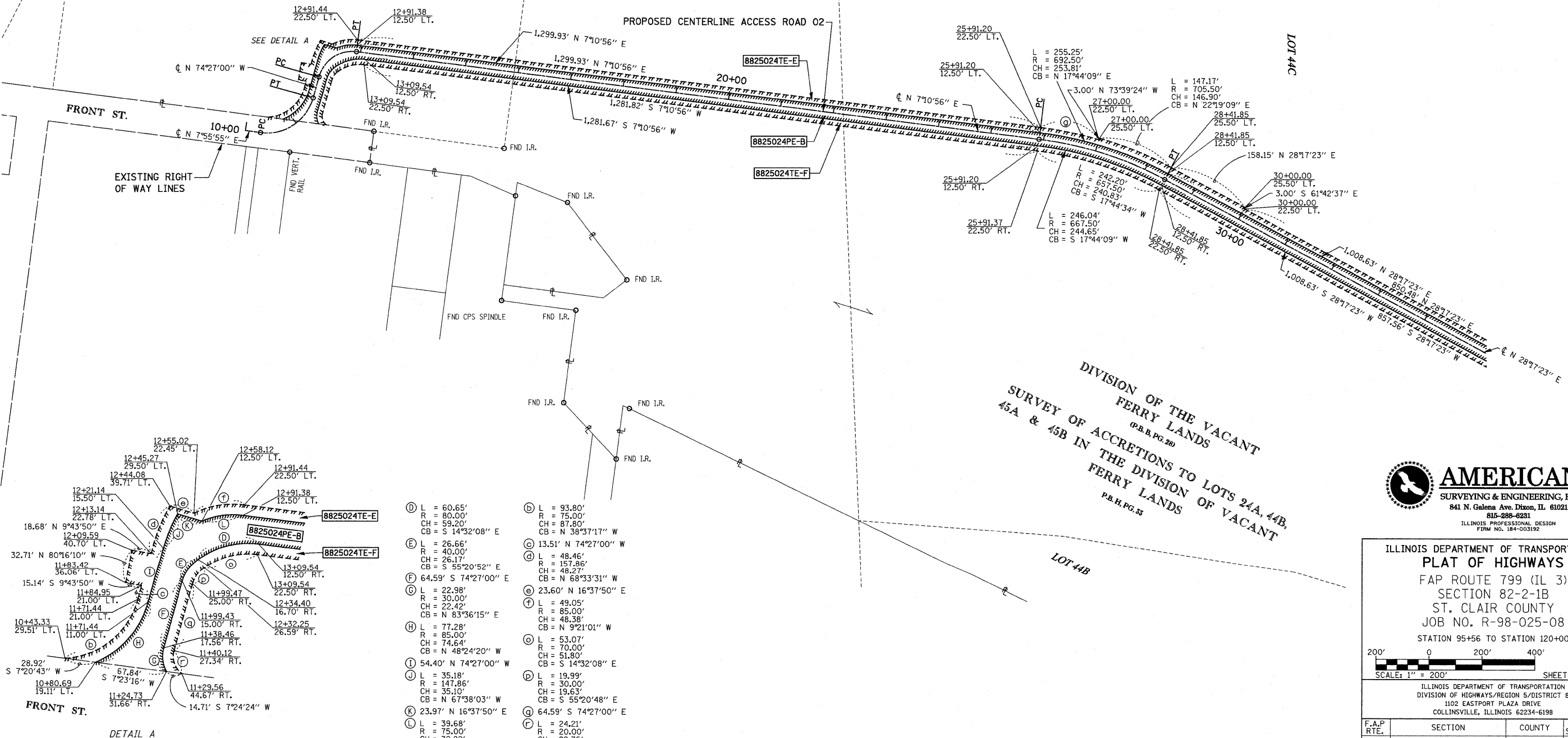


LOT 12

LOT 24C

LOT 44C

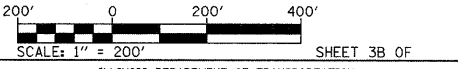
DIVISION OF THE VACANT
 FERRY LANDS
 (P.B.B. PG. 20)
 SURVEY OF ACCRETIONS TO LOTS 24A, 44B,
 45A & 45B IN THE DIVISION OF VACANT
 FERRY LANDS
 P.B.B. PG. 35



- Ⓐ L = 60.65'
R = 80.00'
CH = 59.20'
CB = S 14°32'08" E
- Ⓑ L = 26.66'
R = 40.00'
CH = 26.17'
CB = S 55°20'52" E
- Ⓒ L = 64.59' S 74°27'00" W
- Ⓓ L = 22.98'
R = 30.00'
CH = 22.42'
CB = N 83°36'15" E
- Ⓔ L = 77.28'
R = 85.00'
CH = 74.64'
CB = N 48°24'20" W
- Ⓕ L = 54.40' N 74°27'00" W
- Ⓖ L = 35.18'
R = 147.86'
CH = 35.10'
CB = N 67°38'03" W
- Ⓗ L = 23.97' N 16°37'50" E
- Ⓙ L = 39.68'
R = 75.00'
CH = 39.22'
CB = N 7°58'24" W
- Ⓚ L = 93.80'
R = 75.00'
CH = 87.80'
CB = N 38°57'17" W
- Ⓛ L = 13.51' N 74°27'00" W
- Ⓜ L = 48.46'
R = 157.86'
CH = 48.27'
CB = N 68°33'31" W
- Ⓨ L = 23.60' N 16°37'50" E
- Ⓩ L = 49.05'
R = 85.00'
CH = 48.38'
CB = N 9°21'01" W
- ⓐ L = 53.07'
R = 70.00'
CH = 51.80'
CB = S 14°32'08" E
- ⓑ L = 19.99'
R = 30.00'
CH = 19.63'
CB = S 55°20'48" E
- ⓓ L = 24.21'
R = 20.00'
CH = 22.76'
CB = N 70°52'34" E



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
 FAP ROUTE 799 (IL 3)
 SECTION 82-2-1B
 ST. CLAIR COUNTY
 JOB NO. R-98-025-08
 STATION 95+56 TO STATION 120+00



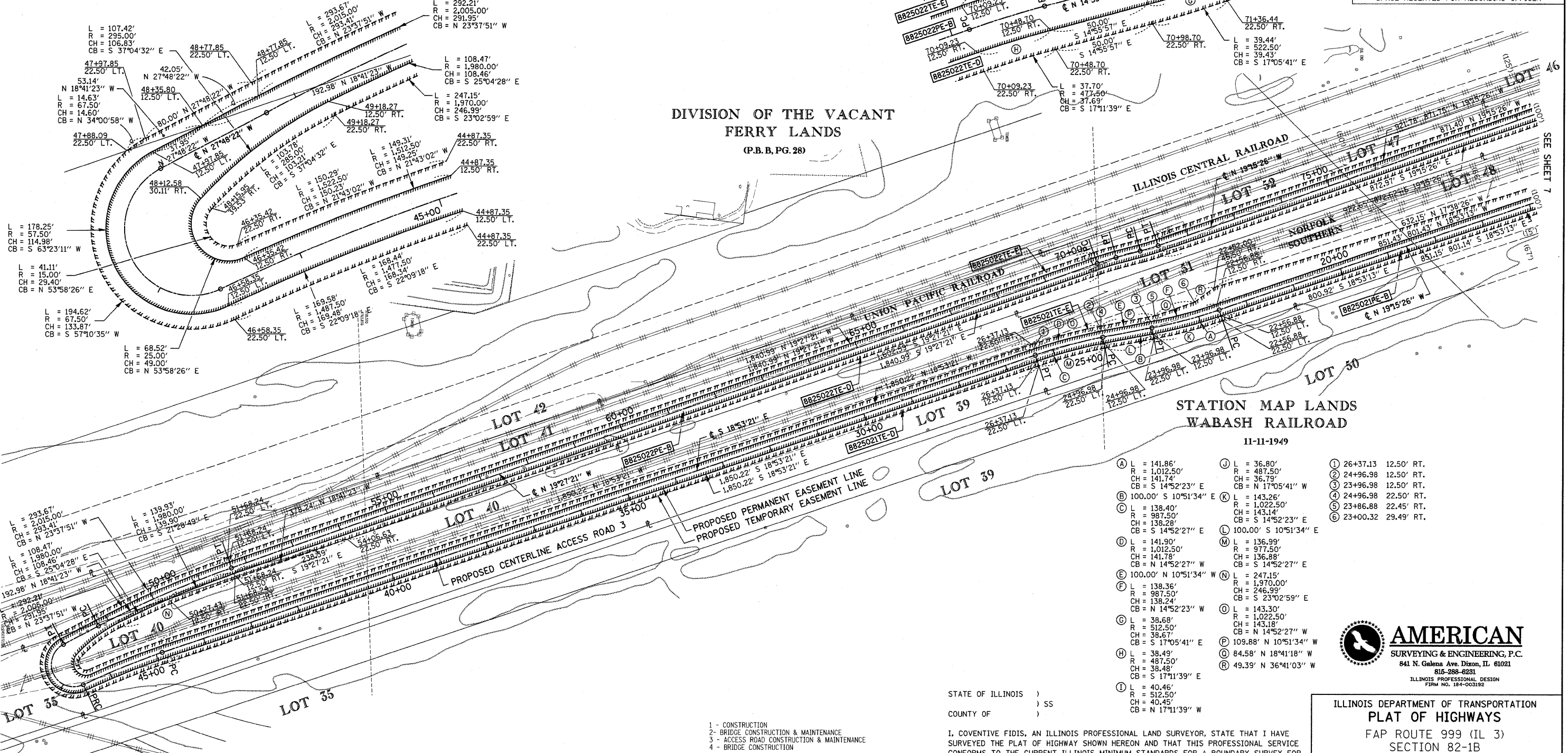
ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
 1102 EASTPORT PLAZA DRIVE
 COLLINGSVILLE, ILLINOIS 62234-6198

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
799		ST. CLAIR	81	70

COMPLETION DATE OF FIELD WORK PERFORMED		CONTRACT NO.	
LAND SURVEY: 5/29/09	ROW STAKING:	78D61	

PART OF U.S. SURVEY 627, T2N, R10W, OF THE 4TH PM, ST. CLAIR COUNTY, ILLINOIS

ACCESS ROAD 3 PROP. CURVE ACC-03-2	ACCESS ROAD 3 PROP. CURVE ACC-03-3	ACCESS ROAD 3 PROP. CURVE ACC-03-11	ACCESS ROAD 3 PROP. CURVE ACC-03-13	ACCESS ROAD 3 PROP. CURVE ACC-03-12	ACCESS ROAD 3 PROP. CURVE ACC-03-6	ACCESS ROAD 3 PROP. CURVE ACC-03-7
PI STA. = 23+27.04 Δ = 8° 01' 39" (RT) T = 70.17' L = 140.11' R = 1,000.00' C = 139.99' C.B. = S 14°52'23" E P.C. STA = 22+56.88 P.T. STA = 23+96.98	PI STA. = 25+67.17 Δ = 8° 01' 47" (LT) T = 70.19' L = 140.15' R = 1,000.00' C = 140.03' C.B. = S 14°52'27" E P.C. STA = 24+96.98 P.T. STA = 26+37.13	PI STA. = 45+72.94 Δ = 6° 31' 54" (LT) T = 85.59' L = 171.00' R = 1,500.00' C = 170.91' C.B. = S 22°09'18" E P.C. STA = 44+87.35 P.T. STA = 46+58.35	PI STA. = 68+19.92 Δ = 177° 36' 53" (RT) T = 2,161.57' L = 139.50' R = 45.00' C = 89.98' C.B. = S 63°23'11" W P.C. STA = 46+58.35 P.T. STA = 47+97.85	PI STA. = 50+23.30 Δ = 8° 21' 02" (RT) T = 145.64' L = 290.76' R = 1,995.00' C = 290.50' C.B. = N 23°37'51" W P.C. STA = 48+77.67 P.T. STA = 51+68.42	PI STA. = 70+28.97 Δ = 4° 31' 24" (RT) T = 19.75' L = 39.47' R = 500.00' C = 39.46' C.B. = N 17°11'39" W P.C. STA = 70+09.23 P.T. STA = 70+48.70	PI STA. = 71+17.58 Δ = 4° 19' 29" (LT) T = 18.88' L = 37.74' R = 500.00' C = 37.73' C.B. = N 17°05'41" W P.C. STA = 70+98.70 P.T. STA = 71+36.44



DIVISION OF THE VACANT FERRY LANDS
(P.B.B, PG. 28)

STATION MAP LANDS
WABASH RAILROAD

11-11-1949

A L = 141.86' R = 1,012.50' CH = 141.74' CB = S 14°52'23" E	J L = 36.80' R = 487.50' CH = 36.79' CB = N 17°05'41" W	① 26+37.13 12.50' RT.
B L = 100.00' S 10°51'34" E	K L = 143.26' R = 1,022.50' CH = 143.14' CB = S 14°52'23" E	② 24+96.98 12.50' RT.
C L = 138.40' R = 987.50' CH = 138.28' CB = S 14°52'27" E	L L = 100.00' S 10°51'34" E	③ 23+96.98 12.50' RT.
D L = 141.90' R = 1,012.50' CH = 141.78' CB = N 14°52'27" W	M L = 136.99' R = 977.50' CH = 136.88' CB = S 14°52'27" E	④ 24+96.98 22.50' RT.
E 100.00' N 10°51'34" W	N L = 247.15' R = 1,970.00' CH = 246.99' CB = S 23°02'59" E	⑤ 23+86.88 22.45' RT.
F L = 138.36' R = 987.50' CH = 138.24' CB = N 14°52'23" W	O L = 143.30' R = 1,022.50' CH = 143.18' CB = N 14°52'27" W	⑥ 23+00.32 29.49' RT.
G L = 38.68' R = 512.50' CH = 38.67' CB = S 17°05'41" E	P L = 109.88' N 10°51'34" W	
H L = 38.49' R = 487.50' CH = 38.48' CB = S 17°11'39" E	Q L = 84.58' N 18°41'18" W	
I L = 40.46' R = 512.50' CH = 40.45' CB = N 17°11'39" W	R L = 49.39' N 36°41'03" W	

- 1 - CONSTRUCTION
- 2 - BRIDGE CONSTRUCTION & MAINTENANCE
- 3 - ACCESS ROAD CONSTRUCTION & MAINTENANCE
- 4 - BRIDGE CONSTRUCTION

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION		REMAINDER ACRES	EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			ACRES	SQ. FT.		PE = PERMANENT TE = TEMPORARY	EASEMENT PURPOSE		
8825021	NORFOLK SOUTHERN RAILWAY COMPANY TITLE REPORT NO. SC-5551, SC-5580, SC-5557, SC-5564	N/A	N/A	N/A	N/A	PE-A 1.3175 PE-B 2.0784 TE-A 0.2555 TE-B 0.2527 TE-C 0.1236 TE-D 0.7809 TE-E 1.1130	2 3 4 4 4 1	01-02.0-400-008 01-02.0-511-002 01-12.0-511-002 01-01.0-511-001 01-01.0-300-025 01-01.0-300-026	
8825022	UNION PACIFIC RAILROAD COMPANY, A UTAH CORPORATION TITLE REPORT NO. SC-6001, SC-6022	N/A	N/A	N/A	N/A	PE-A 0.4596 PE-B 1.8008 TE-A 0.1149 TE-B 0.0402 TE-C 0.0460 TE-D 0.6570 TE-E 0.7356	2 3 4 4 4 1	01-02.0-506-003 01-02.0-506-004 01-01.0-506-007 01-12.0-506-003 01-12.0-506-004	

STATE OF ILLINOIS)
COUNTY OF) SS

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

DATED _____

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



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 999 (IL 3)
SECTION 82-1B
ST. CLAIR COUNTY
JOB NO. R-98-026-08
STATION 18+00 TO STATION 75+00

100' 0 100' 200'
SCALE: 1" = 100' SHEET 4 OF

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
999		ST. CLAIR	81	71

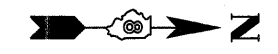
ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINGSVILLE, ILLINOIS 62234-6198

COMPLETION DATE OF FIELD WORK PERFORMED
LAND SURVEY: 5/29/09 ROW STAKING:

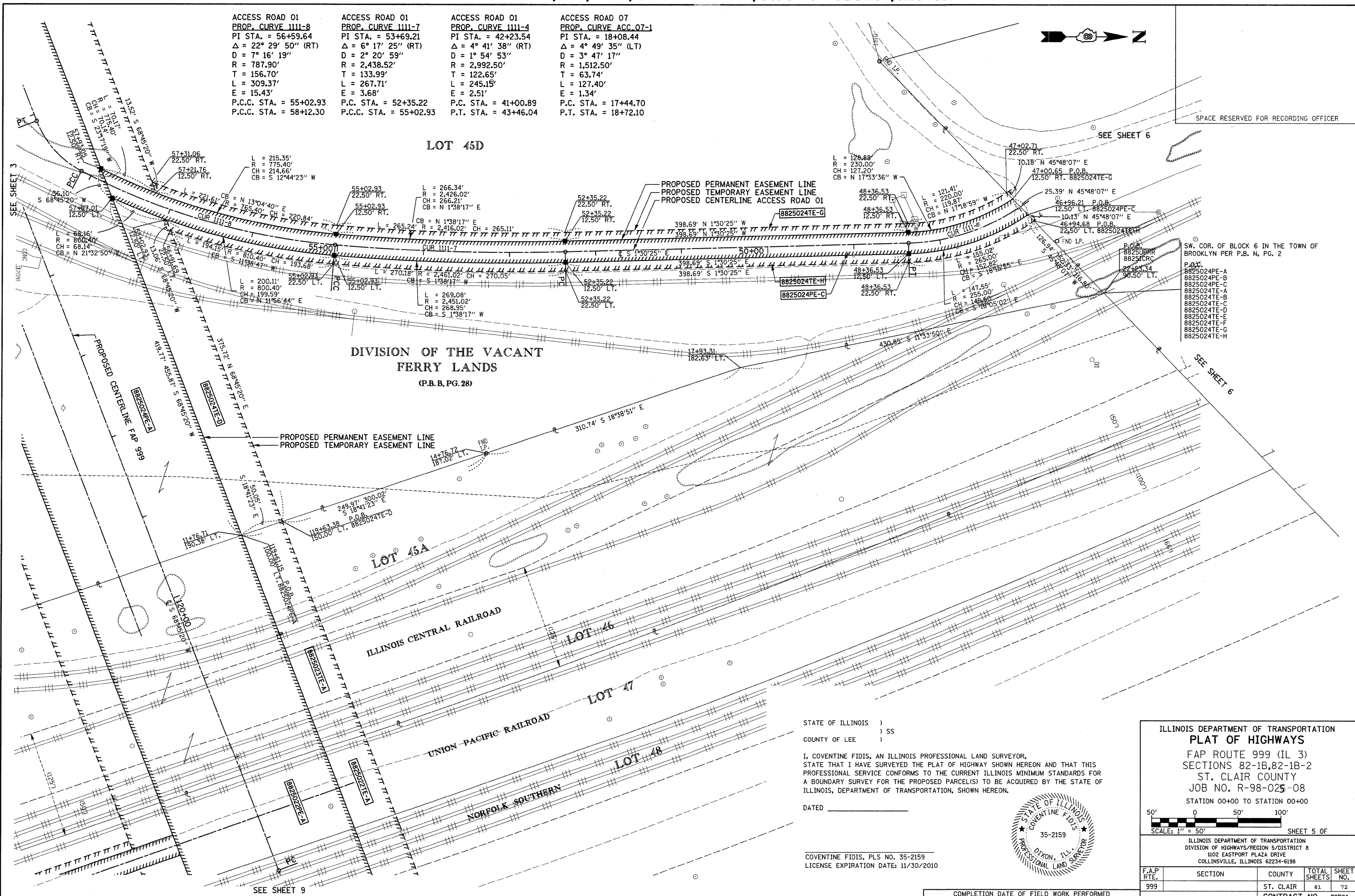
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 76D61

PART OF SECTION 2, T2N, R10W, OF THE 3RD PM, ST. CLAIR COUNTY, ILLINOIS

ACCESS ROAD 01 PROP. CURVE 1111-8 PI STA. = 56+59.64 Δ = 22° 29' 50" (RT) D = 7° 16' 19" R = 787.90' T = 156.70' L = 309.37' E = 15.43' P.C.C. STA. = 55+02.93 P.C. STA. = 58+12.30	ACCESS ROAD 01 PROP. CURVE 1111-7 PI STA. = 53+69.21 Δ = 6° 17' 25" (RT) D = 2° 20' 59" R = 2,438.52' T = 133.99' L = 267.71' E = 3.68' P.C. STA. = 52+35.22 P.C. STA. = 55+02.93	ACCESS ROAD 01 PROP. CURVE 1111-4 PI STA. = 42+23.54 Δ = 4° 41' 38" (RT) D = 1° 54' 53" R = 2,992.50' T = 122.65' L = 245.15' E = 2.51' P.C. STA. = 41+00.89 P.T. STA. = 43+46.04	ACCESS ROAD 07 PROP. CURVE ACC. 07-1 PI STA. = 18+08.44 Δ = 4° 49' 35" (LT) D = 3° 47' 17" R = 1,512.50' T = 63.74' L = 127.40' E = 1.34' P.C. STA. = 17+44.70 P.T. STA. = 18+72.10
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SPACE RESERVED FOR RECORDING OFFICER



SW. COR. OF BLOCK 6 IN THE TOWN OF BROOKLYN PER P.B. N, PG. 2

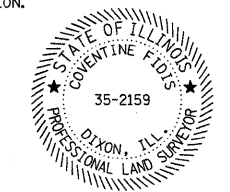
P.O.B.
8825024PE-A
8825024PE-B
8825024PE-C
8825024PE-D
8825024PE-E
8825024PE-F
8825024PE-G
8825024PE-H

STATE OF ILLINOIS)
) SS
COUNTY OF LEE)

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

DATED _____

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



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 999 (IL 3)
SECTIONS 82-1B, 82-1B-2
ST. CLAIR COUNTY
JOB NO. R-98-025-08
STATION 00+00 TO STATION 00+00

SCALE: 1" = 50'

SHEET 5 OF 7

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

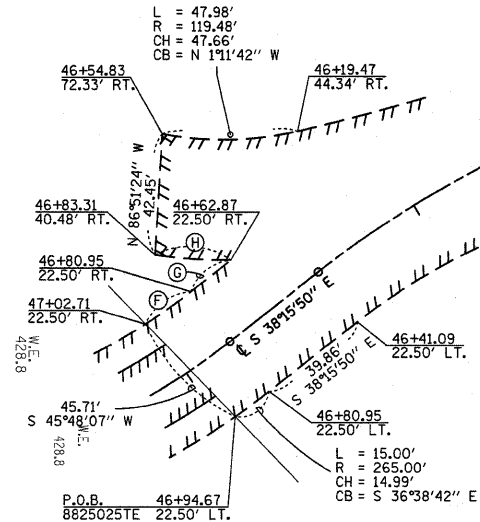
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
999		ST. CLAIR	81	72

CONTRACT NO. 76D61

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY:	ROW STAKING:

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

PART OF SECTION 2, T2N, R10W, OF THE 3RD PM, ST. CLAIR COUNTY, ILLINOIS



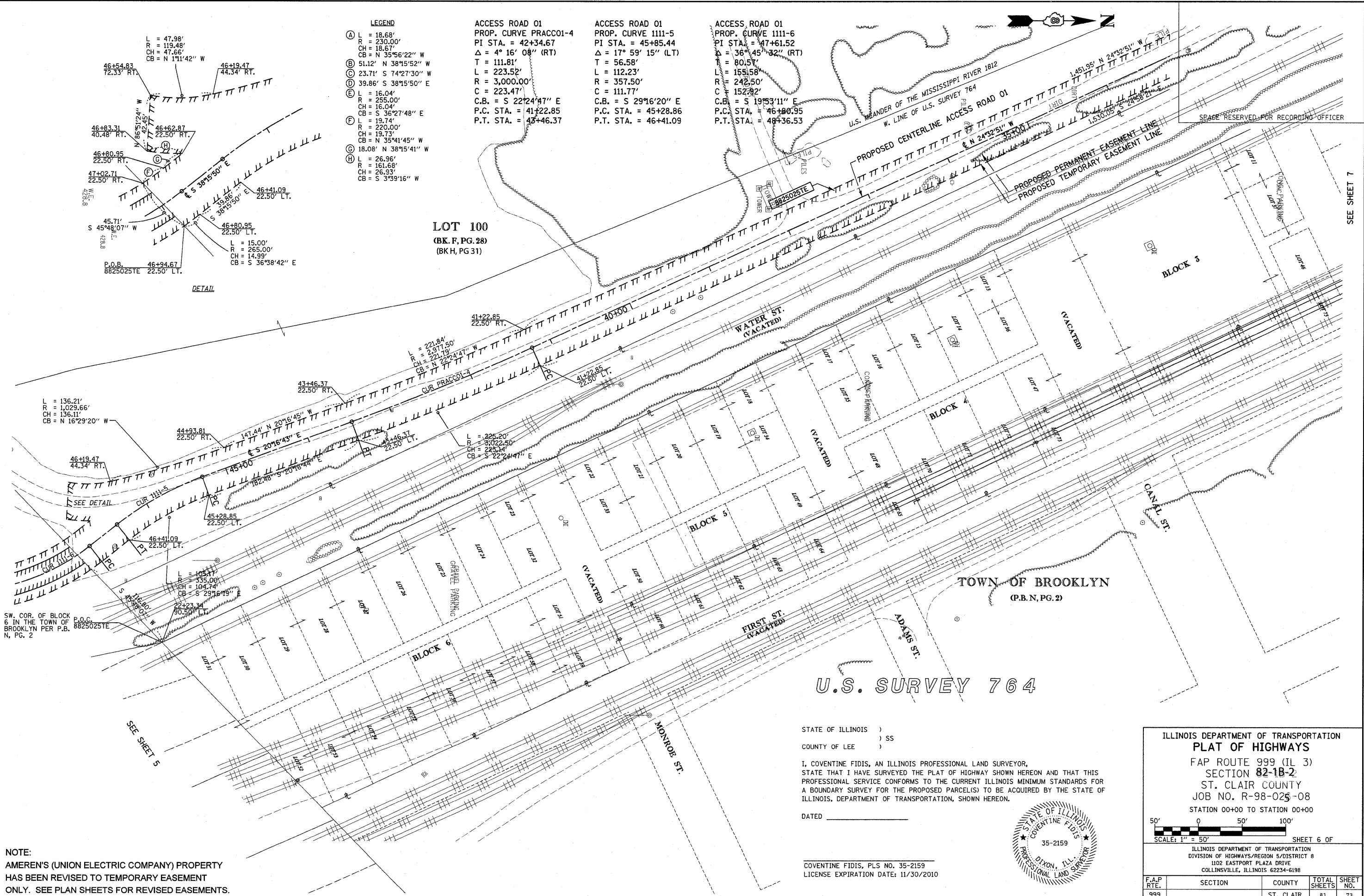
- LEGEND**
- (A) L = 18.68'
R = 230.00'
CH = 18.67'
CB = N 35°56'22" W
 - (B) 51.12' N 38°15'52" W
 - (C) 23.71' S 74°27'30" W
 - (D) 39.86' S 38°15'50" E
 - (E) L = 16.04'
R = 255.00'
CH = 16.04'
CB = S 36°27'48" E
 - (F) L = 19.74'
R = 220.00'
CH = 19.73'
CB = N 35°41'45" W
 - (G) 18.08' N 38°15'41" W
 - (H) L = 26.96'
R = 161.68'
CH = 26.93'
CB = S 3°39'16" W

ACCESS ROAD 01
PROP. CURVE PRACC01-4
PI STA. = 42+34.67
 $\Delta = 4^\circ 16' 08''$ (RT)
T = 111.81'
L = 223.52'
R = 3,000.00'
C = 223.47'
C.B. = S 22°24'47" E
P.C. STA. = 41+22.85
P.T. STA. = 43+46.37

ACCESS ROAD 01
PROP. CURVE 1111-5
PI STA. = 45+85.44
 $\Delta = 17^\circ 59' 15''$ (LT)
T = 56.58'
L = 112.23'
R = 357.50'
C = 111.77'
C.B. = S 29°16'20" E
P.C. STA. = 45+28.86
P.T. STA. = 46+41.09

ACCESS ROAD 01
PROP. CURVE 1111-6
PI STA. = 47+61.52
 $\Delta = 36^\circ 45' 32''$ (RT)
T = 80.57'
L = 155.58'
R = 242.50'
C = 152.92'
C.B. = S 19°53'11" E
P.C. STA. = 46+80.95
P.T. STA. = 48+36.53

LOT 100
(BK. F, PG. 28)
(BK. H, PG. 31)



L = 136.21'
R = 1,029.66'
CH = 136.11'
CB = N 16°29'20" W

SW. COR. OF BLOCK 6 IN THE TOWN OF BROOKLYN PER P.B. 8825025TE N, PG. 2

NOTE:
AMEREN'S (UNION ELECTRIC COMPANY) PROPERTY HAS BEEN REVISED TO TEMPORARY EASEMENT ONLY. SEE PLAN SHEETS FOR REVISED EASEMENTS.

STATE OF ILLINOIS)
COUNTY OF LEE)

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

DATED _____

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



U.S. SURVEY 764

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 999 (IL 3)
SECTION **82-1B-2**
ST. CLAIR COUNTY
JOB NO. R-98-025-08
STATION 00+00 TO STATION 00+00

SCALE: 1" = 50'

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
999		ST. CLAIR	81	73
COMPLETION DATE OF FIELD WORK PERFORMED			CONTRACT NO.	
LAND SURVEY: 5/29/09		ROW STAKING:		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SEE SHEET 7

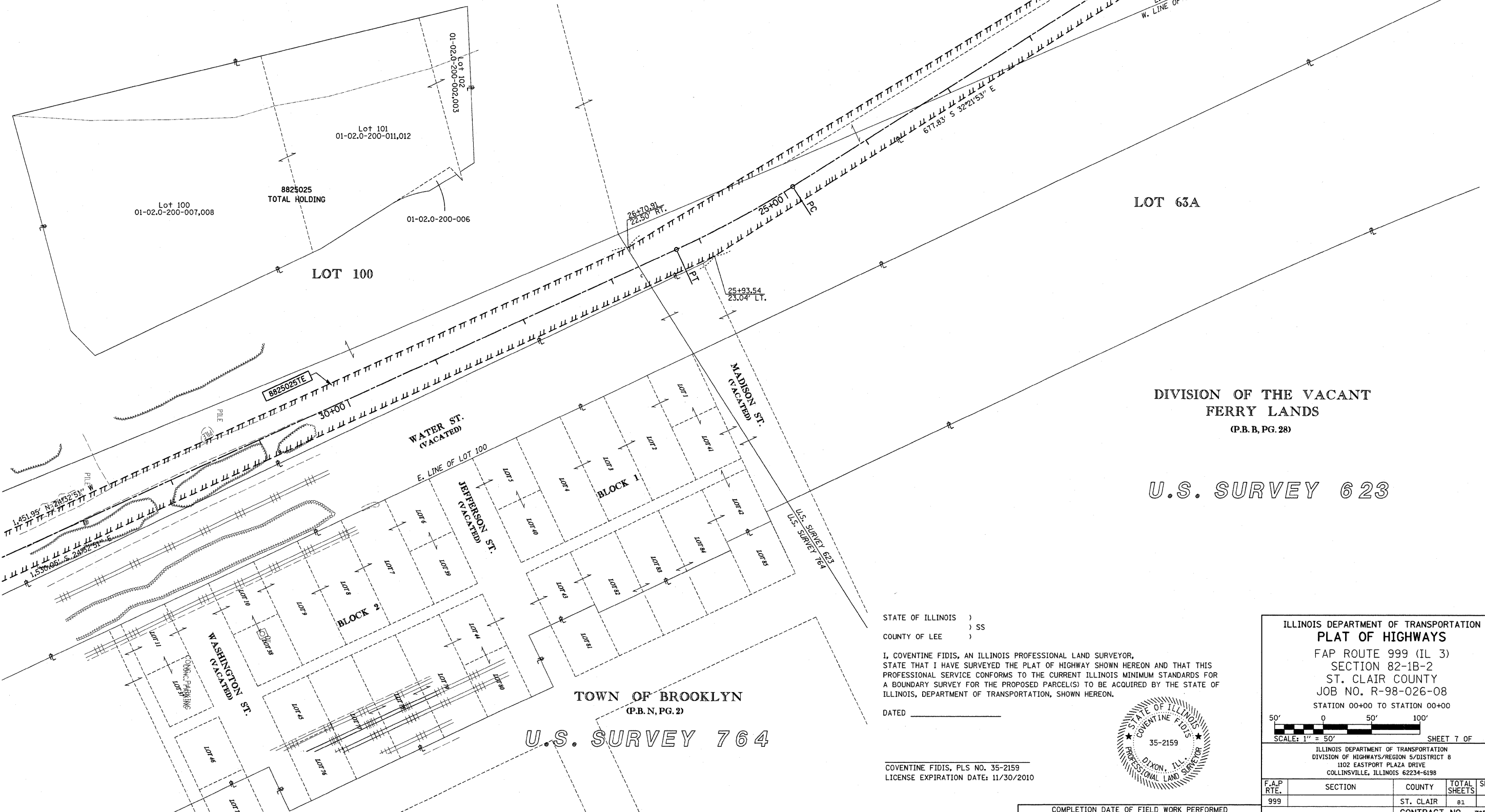
PART OF U.S. SURVEY 623 & 764, SECTION 2, T2N, R10W, OF THE 3RD PM, ST. CLAIR COUNTY, ILLINOIS

10-08-09

- 1 - CONSTRUCTION
- 2 - BRIDGE CONSTRUCTION & MAINTENANCE
- 3 - ACCESS ROAD CONSTRUCTION & MAINTENANCE
- 4 - BRIDGE CONSTRUCTION

PARCEL NO.	OWNER	TOTAL HOLDING			REMAINDER	EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		ACRES	ACRES	SQ. FT.		PE = PERMANENT ACRES	TE = TEMPORARY SQ. FT.		
8825023	KANSAS CITY SOUTHERN RAILWAY COMPANY, 1/2 INT. UNION PACIFIC RAILROAD, 1/2 INT. TITLE REPORT NO. SC-5548, SC-6000, SC-6003, SC-6004 SC-6005, SC-6006, SC-6082, SC-6081, SC-6015	N/A	N/A	N/A	N/A	PE 1.2179 TE-A 0.3045 TE-B 0.3045	PE 53,053 TE-A 13,263 TE-B 13,263	3 2 2	01-02.0-514-001 01-02.0-514-007 01-02.0-514-002 01-02.0-514-008 01-02.0-514-003 01-02.0-514-010 01-02.0-514-004 01-02.0-200-013 01-02.0-514-005 01-02.0-514-006
8825025	UNION ELECTRIC COMPANY TITLE REPORT NO. SC-6017, SC-6016	96.8100	N/A	N/A	N/A	TE 3.7716	TE 164,291	BRIDGE CONSTRUCTION AND TEMPORARY ACCESS ROAD	01-02.0-200-006 01-02.0-200-007 01-02.0-200-012

NOTE:
AMEREN'S (UNION ELECTRIC COMPANY) PROPERTY
HAS BEEN REVISED TO TEMPORARY EASEMENT
ONLY. SEE PLAN SHEETS FOR REVISED EASEMENTS.



LOT 63A

DIVISION OF THE VACANT
FERRY LANDS
(P.B. B, PG. 28)

U.S. SURVEY 623

TOWN OF BROOKLYN
(P.B. N, PG. 2)

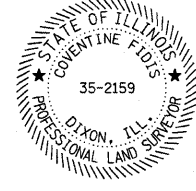
U.S. SURVEY 764

STATE OF ILLINOIS)
) SS
COUNTY OF LEE)

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

DATED _____

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



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 999 (IL 3)
SECTION 82-1B-2
ST. CLAIR COUNTY
JOB NO. R-98-026-08
STATION 00+00 TO STATION 00+00

SCALE: 1" = 50'

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

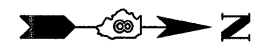
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
999		ST. CLAIR	81	74
CONTRACT NO.			76D61	
COMPLETION DATE OF FIELD WORK PERFORMED		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT		
LAND SURVEY:		ROW STAKING:		

PART OF U.S. SURVEY 623, SECTION 2, T2N, R10W, OF THE 3RD PM, ST. CLAIR COUNTY, PART OF SECTION 35, T3N, R10W, MADISON COUNTY ILLINOIS

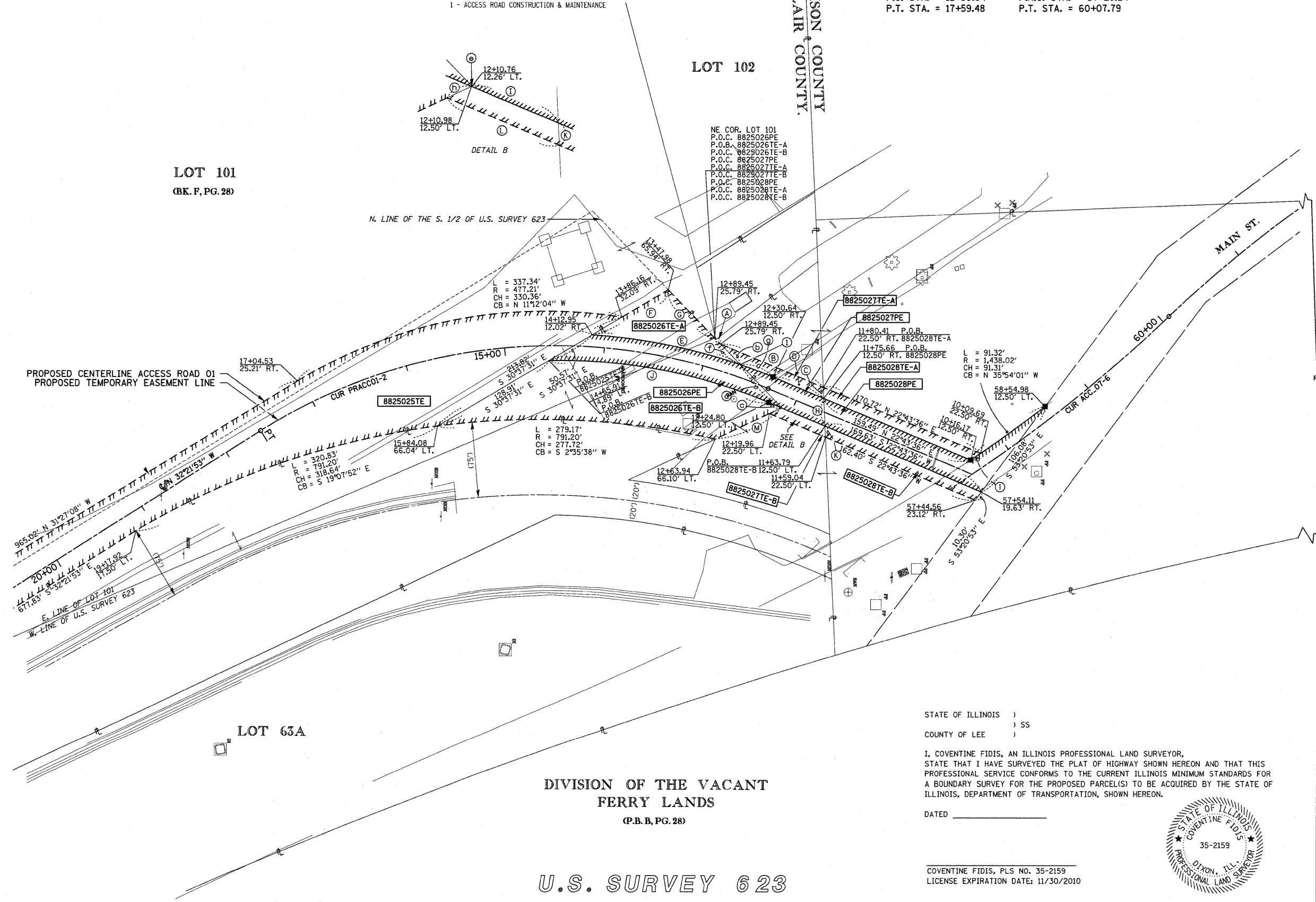
PARCEL NO.	OWNER	TOTAL HOLDING		FEE SIMPLE ACQUISITION		REMAINDER	EASEMENTS		PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
		ACRES	SQ. FT.	ACRES	SQ. FT.		PE = PERMANENT	EASEMENT PURPOSE		
8825026	THE KANSAS CITY SOUTHERN RAILWAY COMPANY TITLE REPORT SC-6015.0	0.5454	N/A	N/A	0.5454	PE 0.1151 TE-A 0.0902 TE-B 0.3401	SO. FT. 5,013 TE-A 3,930 TE-B 14,815	1	01-02.0-200-013	
8825027	THE KANSAS CITY SOUTHERN RAILROAD TITLE REPORT SC-6013.0	0.5079	N/A	N/A	0.5079	PE 0.0396 TE-A 0.0239 TE-B 0.0124	SO. FT. 1,725 TE-A 1,041 TE-B 541	1	01-02.0-200-010	
8825028	THE KANSAS CITY SOUTHERN RAILWAY COMPANY (formerly CMW Acquisition Corp., an Illinois Corp.) TITLE REPORT MA-4201.0	7.0357	N/A	N/A	7.0357	PE 0.1268 TE-A 0.0379 TE-B 0.0381	SO. FT. 5,522 TE-A 1,651 TE-B 1,660	1	21-2-19-35-00-000-902 (19-35-00)	

ACCESS ROAD 01
PROP. CURVE PRACC01-2
PI STA. = 15+17.51
 $\Delta = 55^\circ 05' 29''$ (LT)
T = 286.87'
L = 528.84'
R = 550.00'
C = 508.70'
C.B. = S 4°49'08" E
P.C. STA. = 12+30.64
P.T. STA. = 17+59.48

ACCESS ROAD 07
PROP. CURVE ACC_07-6
PI STA. = 58+68.95
 $\Delta = 11^\circ 00' 09''$ (LT)
T = 159.70'
L = 450.52'
R = 460.52'
C = 278.12'
C.B. = S 5°15'46" W
P.R.C. STA. = 57+29.24
P.T. STA. = 60+07.79



SPACE RESERVED FOR RECORDING OFFICER



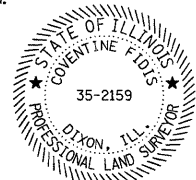
LEGEND

① 12+64.98 12.33' RT. P.O.B. 8825026PE	ⓐ 8.23' N 45°52'16" E	ⓑ 28.67' S 45°52'16" W
Ⓐ 8.23' N 45°52'16" E	Ⓒ 13.82' S 22°43'36" W	Ⓓ 59.77' N 45°52'16" E
Ⓑ 11.07' S 87°19'36" W	Ⓔ 0.32' S 25°20'32" E	Ⓕ 36.90' N 45°52'16" E
Ⓒ 13.82' S 22°43'36" W	Ⓖ L = 151.23'	Ⓖ L = 35.12'
Ⓓ 59.77' N 45°52'16" E	Ⓗ R = 572.00'	Ⓗ R = 572.00'
Ⓔ 0.32' S 25°20'32" E	Ⓙ CH = 150.79'	Ⓙ CH = 150.79'
Ⓕ 36.90' N 45°52'16" E	Ⓚ CB = N 11°19'30" E	Ⓚ CB = N 11°19'30" E
Ⓖ L = 151.23'	Ⓛ 87.94' N 30°37'31" W	Ⓛ CB = N 20°39'28" E
Ⓗ R = 572.00'	Ⓜ 27.68' N 45°52'16" E	Ⓜ CB = N 20°39'28" E
Ⓙ CH = 150.79'	Ⓨ 47.19' S 22°43'36" W	Ⓨ L = 11.92'
Ⓚ CB = N 11°19'30" E	Ⓩ L = 11.92'	Ⓩ R = 1,438.02'
Ⓛ 87.94' N 30°37'31" W	ⓐ L = 11.92'	ⓐ CH = 11.92'
Ⓜ 27.68' N 45°52'16" E	ⓑ R = 537.00'	ⓑ CH = 11.92'
Ⓨ 47.19' S 22°43'36" W	Ⓒ CH = 223.84'	Ⓒ CB = S 10°41'49" W
Ⓩ L = 11.92'	Ⓓ CB = S 10°41'49" W	Ⓓ R = 125.00'
ⓐ L = 11.92'	Ⓚ L = 11.92'	Ⓚ R = 125.00'
ⓑ R = 537.00'	Ⓛ 11.07' N 87°19'36" E	Ⓛ CH = 11.96'
Ⓒ CH = 223.84'	Ⓜ L = 60.92' S 22°43'36" W	Ⓜ CB = S 33°59'34" E
Ⓓ CB = S 10°41'49" W	Ⓨ 73.24' S 25°20'32" E	Ⓨ CB = S 33°59'34" E
Ⓚ L = 11.92'	Ⓩ 30.04' N 87°19'36" E	Ⓩ CB = N 87°19'36" E
Ⓛ 11.07' N 87°19'36" E		
Ⓜ L = 60.92' S 22°43'36" W		
Ⓨ 73.24' S 25°20'32" E		
Ⓩ 30.04' N 87°19'36" E		

STATE OF ILLINOIS)
COUNTY OF LEE)

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

DATED _____

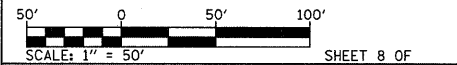


COVENTINE FIDIS, PLS NO. 35-2159
LICENSE EXPIRATION DATE: 11/30/2010

DIVISION OF THE VACANT FERRY LANDS
(P.B.B. PG. 28)

U.S. SURVEY 623

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 999 (IL 3)
SECTION 82-1B-2
ST. CLAIR & MADISON COUNTY
JOB NO. R-98-026-08
STATION 00+00 TO STATION 00+00



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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
999		ST. CLAIR	81	75
CONTRACT NO. 78D61				

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY:	ROW STAKING:

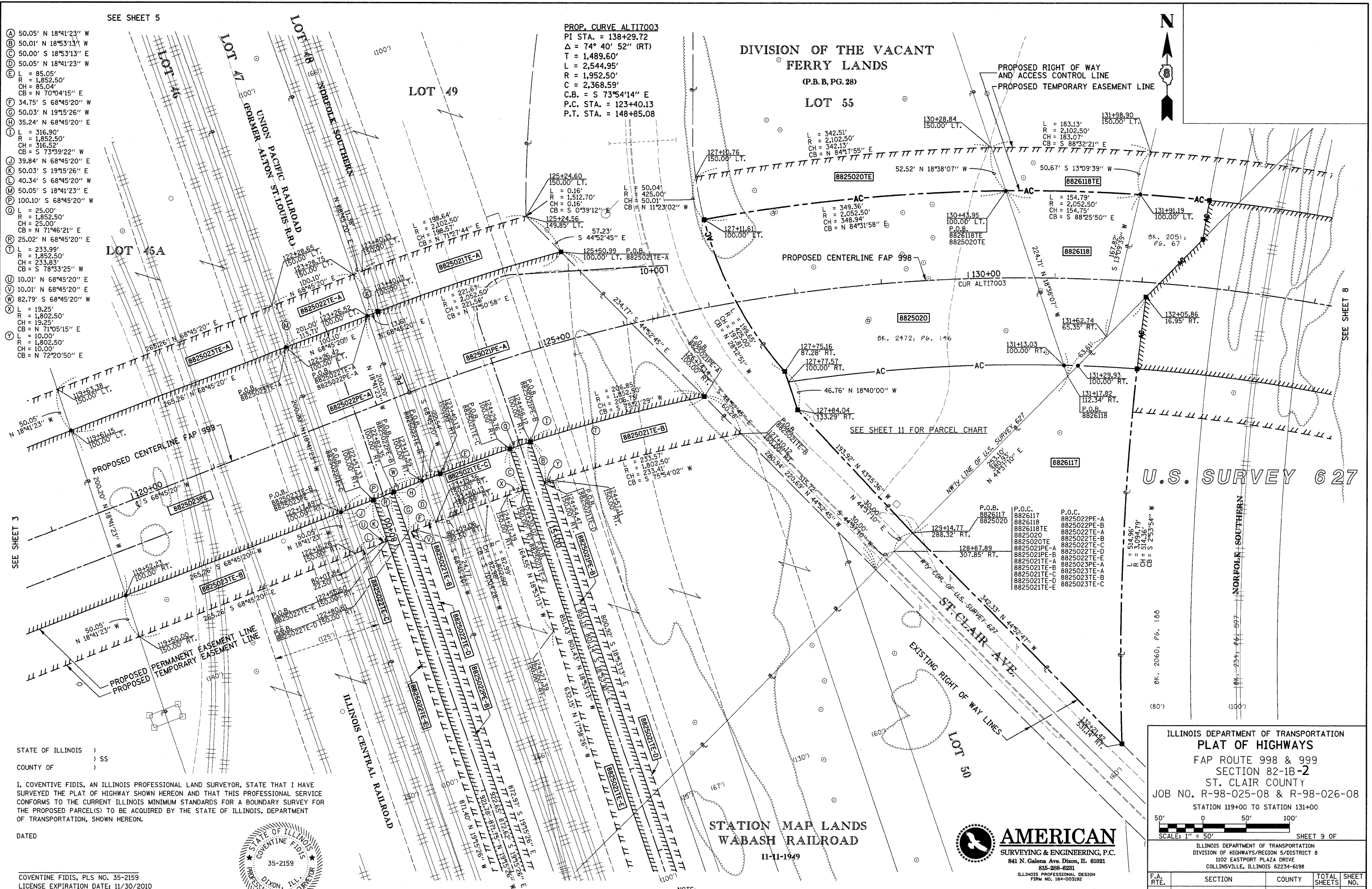
PART OF U.S. SURVEY 627 & SECTIONS 1 & 2, T2N, R10W, OF THE 3RD PM, ST. CLAIR COUNTY, ILLINOIS

- (A) 50.05' N 18°41'23" W
- (B) 50.01' N 18°53'13" W
- (C) 50.00' S 18°53'13" E
- (D) 50.05' N 18°41'23" W
- (E) L = 85.05'
R = 1,852.50'
CH = 85.04'
CB = N 70°04'15" E
- (F) 34.75' S 68°45'20" W
- (G) 50.03' N 19°15'26" W
- (H) 35.24' N 68°45'20" E
- (I) L = 316.90'
R = 1,852.50'
CH = 316.52'
CB = S 73°39'22" W
- (J) 39.84' N 68°45'20" E
- (K) 50.03' S 19°15'26" E
- (L) 40.34' S 68°45'20" W
- (M) 50.05' S 18°41'23" E
- (N) 100.10' S 68°45'20" W
- (O) L = 25.00'
R = 1,852.50'
CH = 25.00'
CB = N 71°46'21" E
- (P) 25.02' N 68°45'20" E
- (Q) L = 233.99'
R = 1,852.50'
CH = 233.83'
CB = S 78°33'25" W
- (R) 10.01' N 68°45'20" E
- (S) 10.01' N 68°45'20" E
- (T) 82.79' S 68°45'20" W
- (U) L = 19.25'
R = 1,802.50'
CH = 19.25'
CB = N 71°05'15" E
- (V) L = 10.00'
R = 1,802.50'
CH = 10.00'
CB = N 72°20'50" E

SEE SHEET 5

PROP. CURVE ALTI7003
PI STA. = 138+29.72
Δ = 74° 40' 52" (RT)
T = 1,489.60'
L = 2,544.95'
R = 1,952.50'
C = 2,368.59'
C.B. = S 73°54'14" E
P.C. STA. = 123+40.13
P.T. STA. = 148+85.08

DIVISION OF THE VACANT
FERRY LANDS
(P.B. B, PG. 28)
LOT 55



STATE OF ILLINOIS)
COUNTY OF) SS

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



DATED _____
COVENTINE FIDIS, PLS NO. 35-2159
LICENSE EXPIRATION DATE: 11/30/2010

STATION MAP LANDS
WABASH RAILROAD
11-11-1949

NOTE:
EXISTING R.O.W. OF ST. CLAIR AVE. ESTABLISHED PER PB H, PG. 34



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 998 & 999
SECTION 82-1B-2
ST. CLAIR COUNTY
JOB NO. R-98-025-08 & R-98-026-08
STATION 119+00 TO STATION 131+00
SCALE: 1" = 50'
SHEET 9 OF 96

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			81	76

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

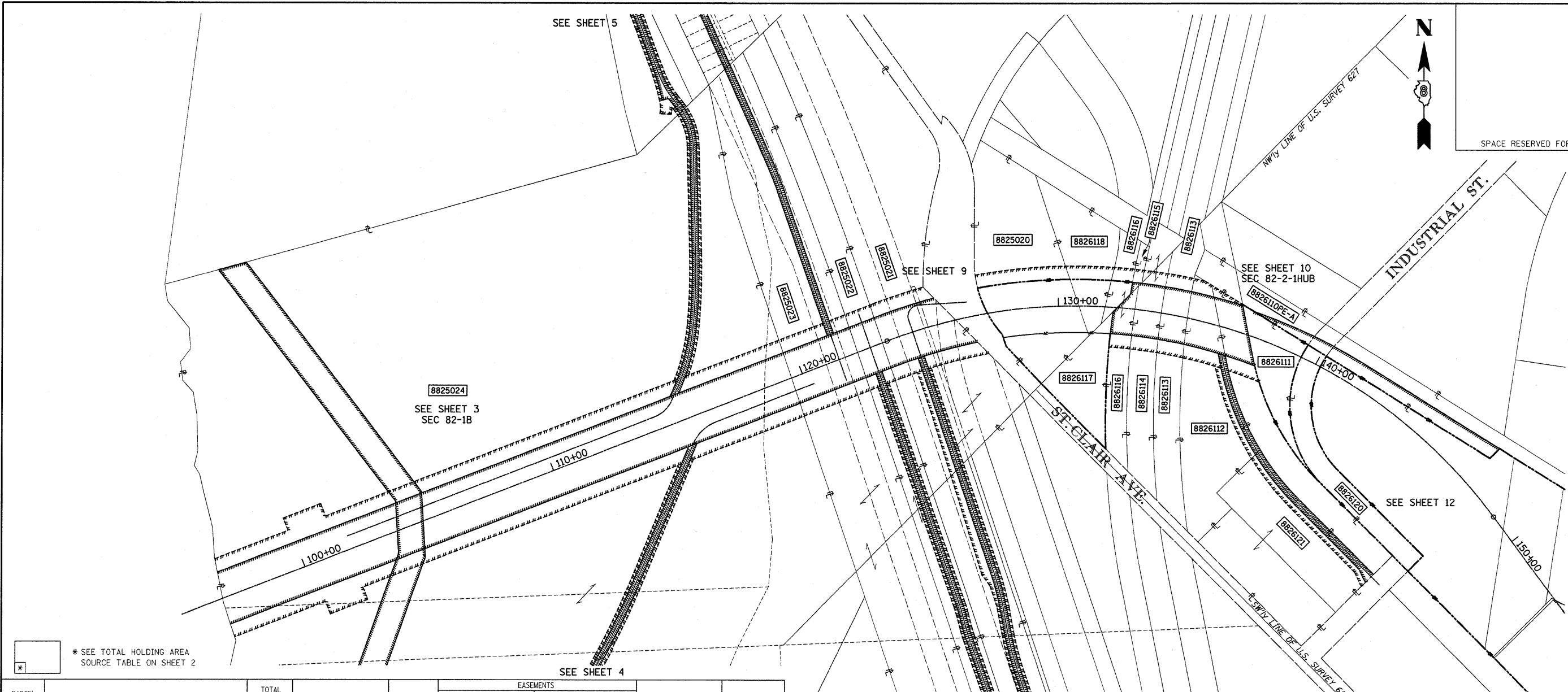
CONTRACT NO. 76D61
ILLINOIS FED. AID PROJECT

PART OF U.S. SURVEY 627 & SECTION 1, 2, & 12 T2N, R10W, OF THE 3RD PM, ST. CLAIR COUNTY, ILLINOIS

10-22-09



SPACE RESERVED FOR RECORDING OFFICER



* SEE TOTAL HOLDING AREA SOURCE TABLE ON SHEET 2

PARCEL NO.	OWNER	TOTAL HOLDING ACRES	FEE SIMPLE ACQUISITION		REMAINDER ACRES	EASEMENTS		EASEMENT PURPOSE	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			ACRES	SQ. FT.		ACRES	ACRES			
8826110	NORFOLK SOUTHERN RAILWAY COMPANY TITLE REPORT NO. SC-5580.0, SC-5460.0	N/A	N/A	N/A	N/A	PE-A 1.0298 PE-B 0.0882	PE-A 44,860 PE-B 3,844	1 2	BRIDGE CONSTRUCTION	01-01.0-511-002 01-01.0-511-001 01-01.0-511-005
8826111	ST. LOUIS NATIONAL STOCKYARDS, A CORPORATION TITLE REPORT NO. SC-5577, SC-6106.0	4.1118	1.3456	58,613	2.7662	PE 0.5243 TE-A 0.1370 TE-B 0.0950	PE 22,838 TE-A 5,968 TE-B 2,396	1 2	BRIDGE CONSTRUCTION	01-01.0-300-049 01-01.0-300-008
8826112	NORFOLK SOUTHERN CORPORATION TITLE REPORT NO. SC-5561.0	3.8018	N/A	N/A	N/A	PE-A 0.5701 PE-B 0.2248 TE-A 0.1609 TE-B 0.0848 TE-C 0.1656	PE-A 24,834 PE-B 9,794 TE-A 7,010 TE-B 3,694 TE-C 7,212	1 2 3	BRIDGE CONSTRUCTION ACCESS ROAD	01-01.0-501-013
8826113	MADISON COUNTY METRO-EAST TRANSIT DISTRICT TITLE REPORT NO. SC-5560.0	N/A	N/A	N/A	N/A	PE 0.4599 TE-A 0.1154 TE-B 0.1148	PE 20,034 TE-A 5,026 TE-B 5,001	1 2	BRIDGE CONSTRUCTION	01-01.0-301-001
8826114	NORFOLK SOUTHERN CORPORATION TITLE REPORT NO. SC-5559.0	N/A	N/A	N/A	N/A	PE 0.4582 TE-A 0.1149 TE-B 0.1030	PE 19,960 TE-A 5,095 TE-B 4,486	1 2	BRIDGE CONSTRUCTION	01-01.0-501-010 01-01.0-501-011
8826115	ILLINOIS CENTRAL RAILROAD COMPANY TITLE REPORT NO. SC-5547.0	N/A	N/A	N/A	N/A	PE 0.0172 TE 0.0401	PE 749 TE 1,746	1 2	BRIDGE CONSTRUCTION	01-01.0-506-005
8826116	MERCANTILE TRUST COMPANY NATIONAL ASSOCIATION, TRUSTEE UNDER TRUST NO. 5670 TITLE REPORT NO. SC-5554.0, SC-5556	N/A	0.2000	8,711	N/A	PE 0.2484 TE-A 0.0920 TE-B 0.0904	PE 10,818 TE-A 4,008 TE-B 3,937	1 2	BRIDGE CONSTRUCTION	01-01.0-300-017 01-01.0-300-011
8826117	ST. LOUIS NATIONAL STOCKYARDS COMPANY (FORMERLY NATIONAL STOCKYARDS COMPANY) TITLE REPORT NO. SC-5555.0	1.4124	1.4124	61,526	0.000	N/A	N/A			01-01.0-300-004
8826118	WIGGINS FERRY COMPANY TITLE REPORT NO. SC-5553.0	1.9299	0.4420	19,253	1.4879	TE 0.1939	TE 8,448	2	BRIDGE CONSTRUCTION	01-01.0-300-018
8826121	PACKERS BY-PRODUCTS, INC., AN ILLINOIS CORPORATION TITLE REPORT NO. SC-6141	5.2289	N/A	N/A	N/A	TE 0.2923 PE 0.3748	TE 12,735 PE 16,328	4 3	ACCESS ROAD ACCESS ROAD	01-01.0-300-009
8826123	ILLINOIS CENTRAL RAILROAD COMPANY TITLE REPORT NO. SC-5548	N/A	N/A	N/A	N/A	PE-A 1.2176 PE-B 0.6159 TE-A 0.0718 TE-B 0.2040 TE-C 0.3045	PE-A 53,053 PE-B 26,833 TE-A 3,128 TE-B 8,885 TE-C 13,268	1 2 3	BRIDGE CONSTRUCTION ACCESS ROAD BRIDGE CONSTRUCTION BRIDGE CONSTRUCTION	01-02.0-514-008 01-02.0-514-010
8825020	NORFOLK SOUTHERN RAILWAY COMPANY FORMERLY NORFOLK AND WESTERN RAILWAY WHICH ACQUIRED TITLE AS WABASH RAILROAD COMPANY, AN OHIO COMPANY TITLE REPORT NO. SC-5552.0	5.4247	2.3249	101,272	3.0998	TE 0.3978	TE 17,330	2	BRIDGE CONSTRUCTION	01-01.0-300-019

- 1 Bridge Construction and Maintenance.
- 2 Bridge Construction
- 3 Access Road Construction and Maintenance
- 4 Access Road construction

SEE SHEET 4

STATE OF ILLINOIS)
) SS
COUNTY OF)

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

DATED



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



ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP ROUTE 998 & 999 (IL 3)
SECTION 82-1B, 82-2-1HUB
ST. CLAIR COUNTY
JOB NO. R-98-025-08 & R-98-026-08
STATION 90+00 TO STATION 150+00

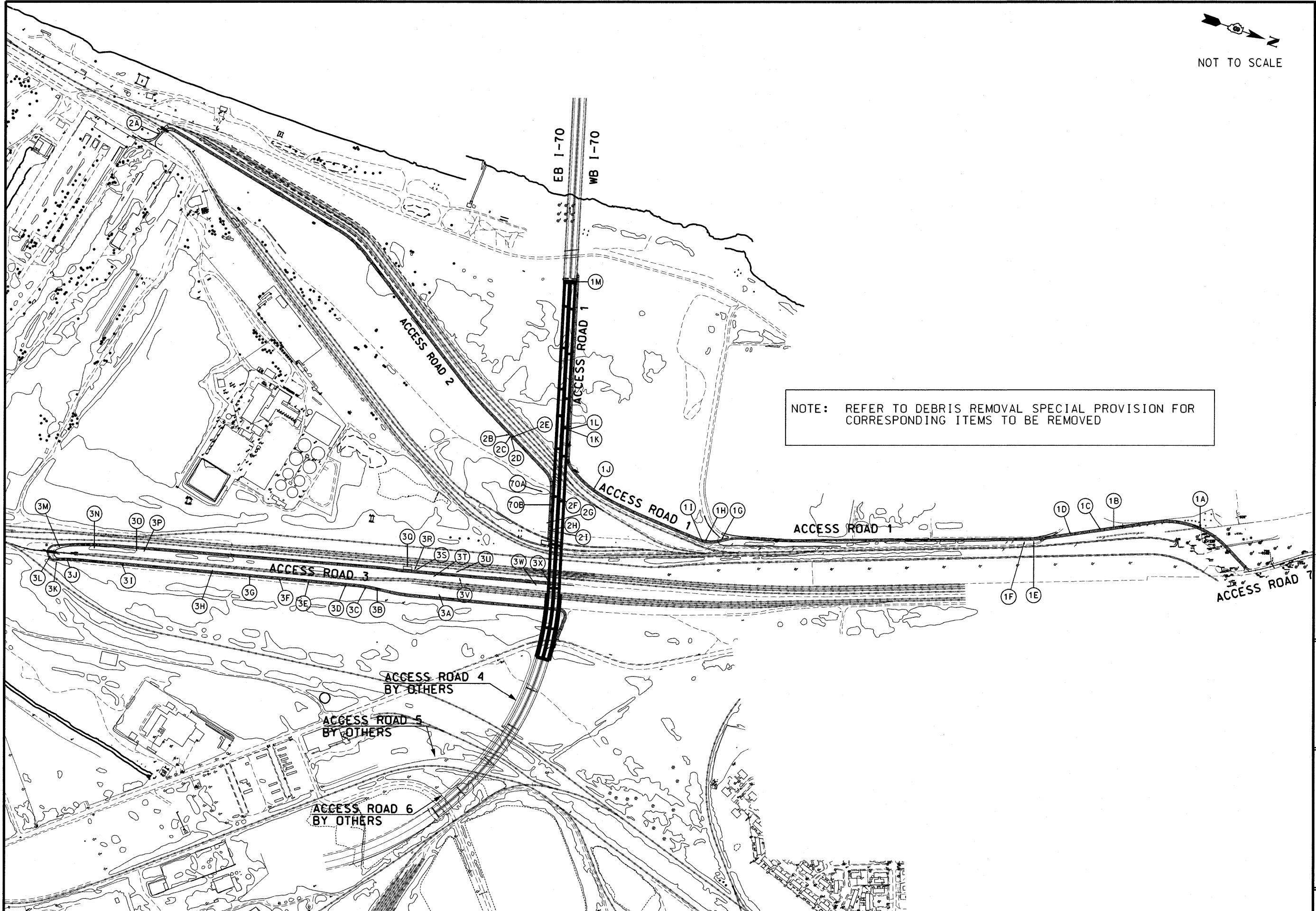
SCALE: 1" = 200'

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		ST. CLAIR	81	77
CONTRACT NO. 78D61				

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

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY: 5/19/09	ROW STAKING:



NOT TO SCALE

NOTE: REFER TO DEBRIS REMOVAL SPECIAL PROVISION FOR CORRESPONDING ITEMS TO BE REMOVED

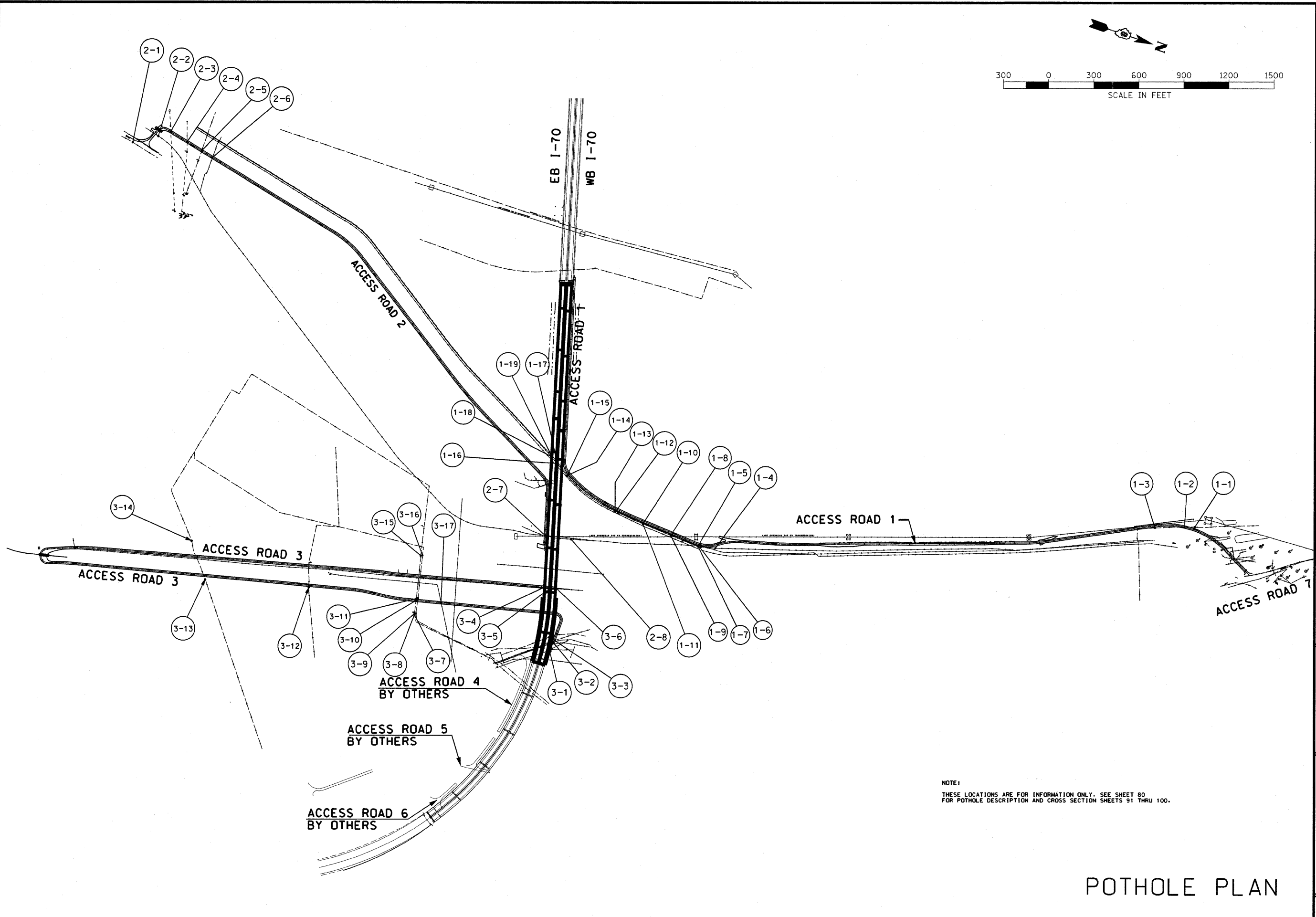
CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 300.0000' / IN	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
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REVISED -	
REVISED -	

DEBRIS INVENTORY LOCATIONS
ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CMT
CRAWFORD, MURPHY & TILLY, INC.
2150 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631



NOTE:
 THESE LOCATIONS ARE FOR INFORMATION ONLY. SEE SHEET 80
 FOR POTHOLE DESCRIPTION AND CROSS SECTION SHEETS 91 THRU 100.

POTHOLE PLAN

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = John Keeven	
PLOT SCALE = 300.0000' / IN	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
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REVISED -	

UTILITY POTHOLE LOCATIONS
ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
---	--

HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY
 NO. 001270

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631

POTHOLE DESCRIPTIONS

POTHOLE NO.	ROADWAY	STATION	LOCATION	DESCRIPTION	GROUND ELEVATION	UTILITY ELEVATION
1-1	ACCESS ROAD 1	14+96.51	19.94' RT	MRT 16" GAS LINE	424.68	418.62
1-2	ACCESS ROAD 1	15+61.12	0.84' LT	MRT 16" GAS LINE	423.66	415.63
1-3	ACCESS ROAD 1	17+62.64	13.17' LT	MRT 16" GAS LINE	421.52	415.77
1-4	ACCESS ROAD 1	46+98.99	21.93' LT	FIBER OPTIC CABLE QWEST	425.35	421.12
1-5	ACCESS ROAD 1	48+05.85	6.36' LT	FIBER OPTIC CABLE QWEST	425.84	421.32
1-6	ACCESS ROAD 1	48+05.41	9.97' LT	FIBER OPTIC CABLE SPRINT	425.95	422.55
1-7	ACCESS ROAD 1	48+06.48	16.10' LT	FIBER OPTIC CABLE MCI	425.94	421.94
1-8	ACCESS ROAD 1	50+00.65	12.75' LT	FIBER OPTIC CABLE SPRINT	425.39	421.33
1-9	ACCESS ROAD 1	50+00.22	18.03' LT	FIBER OPTIC CABLE MCI	425.28	421.01
1-10	ACCESS ROAD 1	52+00.78	12.88' LT	FIBER OPTIC CABLE SPRINT	425.01	421.12
1-11	ACCESS ROAD 1	52+00.79	19.25' LT	FIBER OPTIC CABLE MCI	425.01	421.78
1-12	ACCESS ROAD 1	54+00.07	13.02' LT	FIBER OPTIC CABLE SPRINT	424.03	420.28
1-13	ACCESS ROAD 1	54+03.25	19.86' LT	FIBER OPTIC CABLE MCI	424.28	420.40
1-14	ACCESS ROAD 1	57+97.01	13.52' LT	FIBER OPTIC CABLE SPRINT	419.53	415.93
1-15	ACCESS ROAD 1	57+97.06	19.98' LT	FIBER OPTIC CABLE MCI	420.27	417.02
1-16	ACCESS ROAD 1	58+78.80	50.73' LT	2" PVC CONDUIT FIBER OPTIC CABLE MCI	419.52	415.91
1-17	ACCESS ROAD 1	58+87.29	50.04' LT	1" FIBER OPTIC CABLE SPRINT	418.85	415.37
1-18	ACCESS ROAD 1	59+18.44	91.57' LT	2" PVC CONDUIT FIBER OPTIC CABLE MCI	418.84	415.32
1-19	ACCESS ROAD 1	59+26.88	90.92' LT	1" FIBER OPTIC CABLE SPRINT	418.17	415.05
2-1	ACCESS ROAD 2	10+31.32	17.52' RT	WATER LINE	416.45	411.22
2-2	ACCESS ROAD 2	11+92.03	31.93' RT	FIBER OPTIC CABLE MCI/QWEST	422.92	417.45
2-3	ACCESS ROAD 2	13+13.79	CL	POTHOLED TO 14', VERIFIED BY IAWC - NO UTILITIES OBSERVED		
2-4	ACCESS ROAD 2	14+41.61	CL	POTHOLED TO 14', VERIFIED BY IAWC - NO UTILITIES OBSERVED		
2-5	ACCESS ROAD 2	15+55.05	CL	WATER INTAKE LINES, 2-36" OR LARGER LINES		
2-6	ACCESS ROAD 2	16+39.09	2.51' RT	IAWC POWER/COMM ELECTRIC LINE	420.01	413.76
2-7	ACCESS ROAD 2	51+40.04	0.07' RT	12' DEEP FOR QWEST/MCI CONDUIT TONED AT A DEPTH OF 14'±		
2-8	ACCESS ROAD 2	51+55.17	173.52' LT	4" FIBER OPTIC CABLE MCI	422.02	419.29
3-1	ACCESS ROAD 3	10+13.25	28.50' LT	4" PVC CONDUIT FIBER OPTIC CABLE AT&T	414.26	407.98
3-2	ACCESS ROAD 3	10+36.92	0.58' RT	4" PVC CONDUIT FIBER OPTIC CABLE AT&T	413.49	408.64
3-3	ACCESS ROAD 3	10+61.51	37.15' LT	14" WATER PIPE ILLINOIS AMERICAN WATER	412.29	405.65
3-4	ACCESS ROAD 3	81+17.82	1.82' RT	FIBER OPTIC CABLE 360 NETWORKS	416.00	412.66
3-5	ACCESS ROAD 3	81+60.30	2.40' RT	FIBER OPTIC CABLE 360 NETWORKS	415.98	412.14
3-6	ACCESS ROAD 3	82+01.85	2.16' RT	FIBER OPTIC CABLE 360 NETWORKS	415.92	412.39
3-7	ACCESS ROAD 3	21+92.77	98.64' LT	36" WATER PIPE ILLINOIS AMERICAN WATER	410.78	404.87
3-8	ACCESS ROAD 3	21+93.14	92.96' LT	36" WATER PIPE ILLINOIS AMERICAN WATER	410.95	405.86
3-9	ACCESS ROAD 3	21+92.50	87.63' LT	36" WATER PIPE ILLINOIS AMERICAN WATER	411.33	406.73
3-10	ACCESS ROAD 3	21+91.89	0.54' LT	36" WATER PIPE ILLINOIS AMERICAN WATER	412.24	405.94
3-11	ACCESS ROAD 3	21+80.57	16.38' RT	48" WATER PIPE ILLINOIS AMERICAN WATER	412.23	402.50
3-12	ACCESS ROAD 3	29+13.46	13.43' LT	GAS PIPE	412.88	402.86
3-13	ACCESS ROAD 3	36+06.22	25.01' LT	36" WATER PIPE ILLINOIS AMERICAN WATER	412.29	400.83
3-14	ACCESS ROAD 3	57+51.41	100.87' LT	36" WATER PIPE ILLINOIS AMERICAN WATER	417.42	409.28
3-15	ACCESS ROAD 3	72+78.86	137.63' LT	36" WATER PIPE ILLINOIS AMERICAN WATER	417.71	409.59
3-16	ACCESS ROAD 3	72+90.42	139.43' LT	48" WATER PIPE ILLINOIS AMERICAN WATER	417.89	410.43
3-17	ACCESS ROAD 3	20+23.85	0.95' LT	UNKNOWN UTILITY	412.35	409.46

NOTE:

THESE DESCRIPTIONS ARE FOR INFORMATION ONLY. SEE SHEET 79 FOR POTHOLE LOCATIONS AND CROSS SECTION SHEETS 91 THRU 100.

CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR

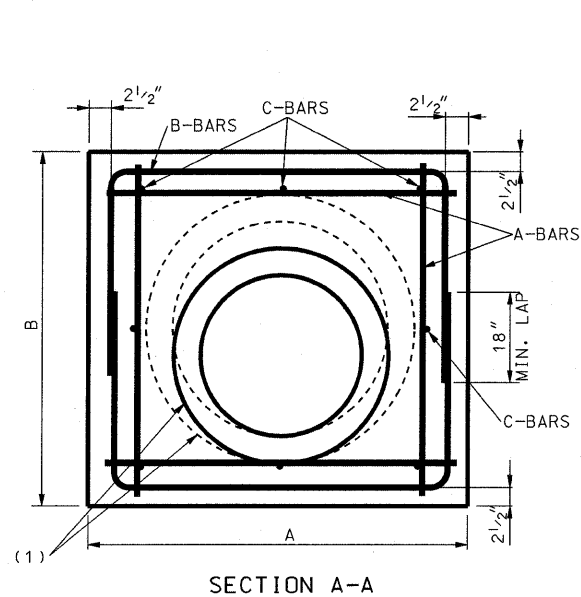
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PLOT SCALE = 300,000' / IN
PLOT DATE = 4/14/2010
DESIGNED - HNTB
CHECKED - CMT
DRAWN - CMT / HNTB
REVISED -
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REVISED -

UTILITY POTHOLE DESCRIPTIONS
 ILLINOIS APPROACH STRUCTURE
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 MISSOURI HIGHWAYS
 AND TRANSPORTATION COMMISSION

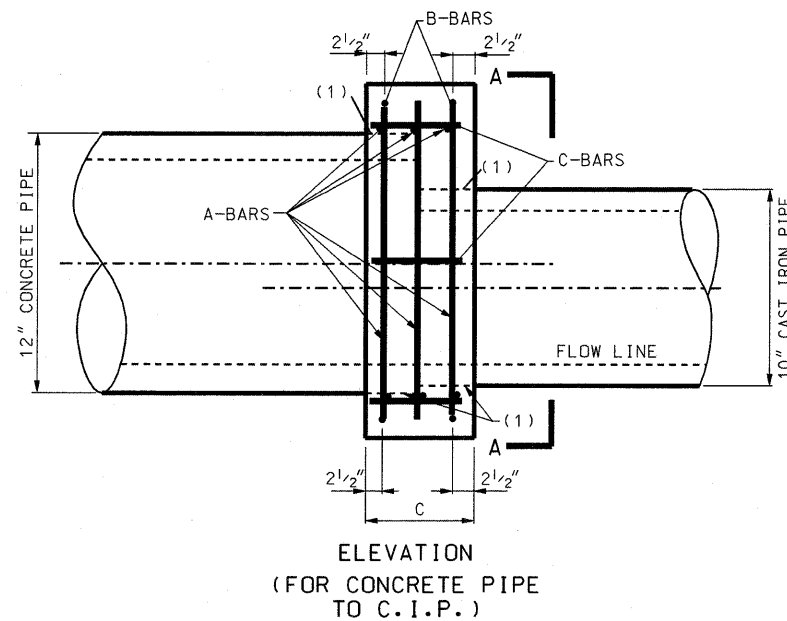
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 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY
 NO. 001270

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 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631



SECTION A-A

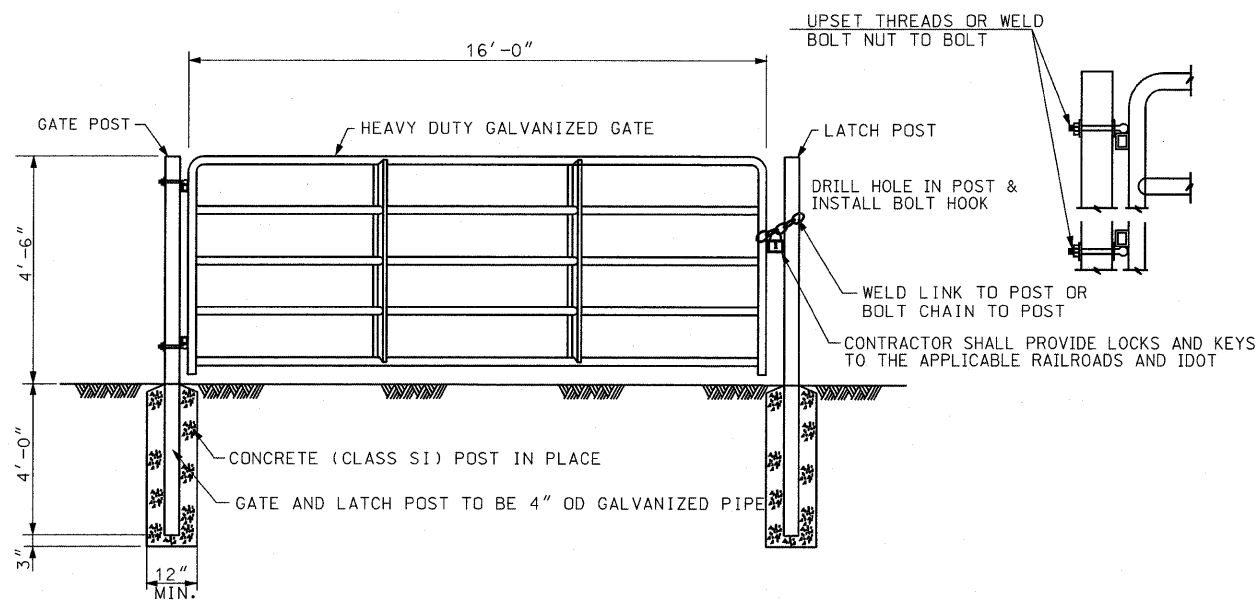
CONCRETE COLLAR



ELEVATION
(FOR CONCRETE PIPE
TO C.I.P.)

TABLE OF DIMENSIONS								
SIZE OF PIPE		DIMENSIONS		LENGTH OF BARS			QUANTITIES	
LARGE (IN.)	SMALL (IN.)	A & B (FT.-IN.)	C (FT.-IN.)	A(#5) 12 REQUIRED (FT.-IN.)	B(#6) 4 REQUIRED (FT.-IN.)	C(#4) 8 REQUIRED (FT.-IN.)	CONCRETE (CU. YD.)	STEEL (LBS.)
12	10	2-8	1-0	2-5	5-10	0-9	0.22	70

(1) ONE LAYER COMMERCIALY AVAILABLE
55-POUND ROLL ROOFING. (COST
INCIDENTAL TO CONCRETE COLLAR)

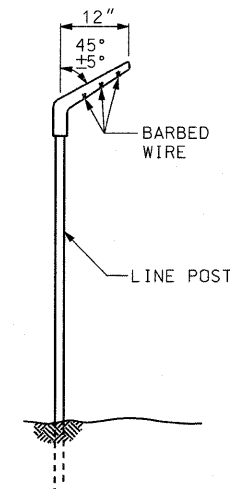


TUBULAR GATE, 4.5' X 16', SINGLE

ACCESS ROAD 1 STA 10+50
ACCESS ROAD 2 STA 13+10
ACCESS ROAD 3 STA 24+00

NOTES:
ADJUST GATE LOCATION SHOWN TO ACCOMMODATE
THE PROPOSED ACCESS ROAD WIDTH OF 15'-0"
OR AS DIRECTED BY THE ENGINEER.

SEE TUBULAR GATE, 4.5' X 16' SINGLE SPECIAL
PROVISION FOR ADDITIONAL REQUIREMENTS.



**BARBED WIRE EXTENSION BRACKET
FOR CHAIN LINK FENCE, 7' (SPECIAL)**

ACCESS ROAD 1 STA. 15+16.29 RT. TO STA. 15+19.10 RT.
ACCESS ROAD 1 STA. 15+19.10 RT. TO STA. 18+97.82 RT.

NOTE:
SEE CHAIN LINK FENCE, 7' (SPECIAL) SPECIAL
PROVISION FOR ADDITIONAL REQUIREMENTS.

CONTRACT NO. 76D61

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR

USER NAME = John Keever
PLOT SCALE = 50.00' / IN.
PLOT DATE = 4/14/2010
DESIGNED - HNTB
CHECKED - CMT
DRAWN - CMT / HNTB
REVISED -
REVISED -
REVISED -
REVISED -

TYPICAL SECTION
ACCESS ROAD & MISC. DETAILS
ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

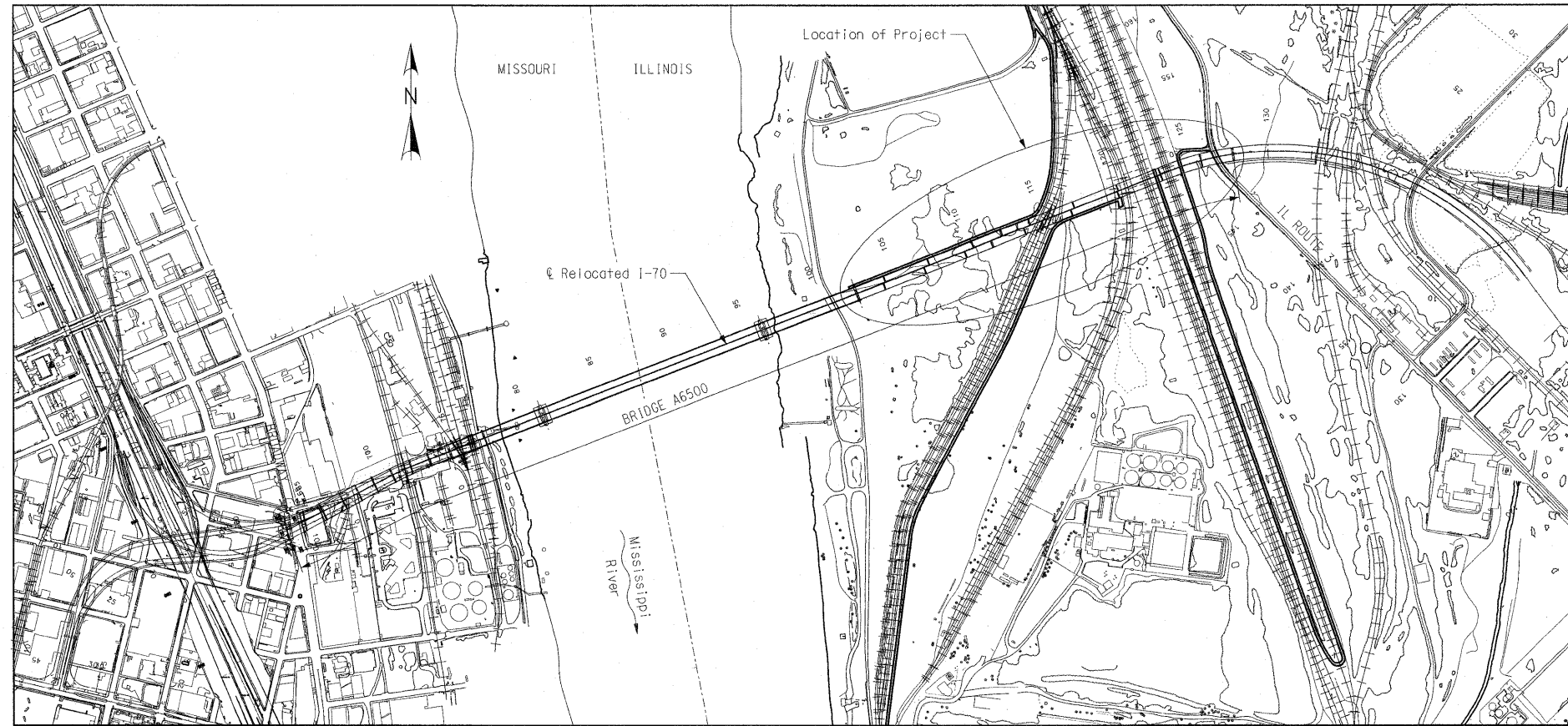
HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CMT
CRANFORD, MURPHY & TILLY, INC.
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ENGINEERING CORPORATION - 000631

SHEET 1 OF 1
MISCELLANEOUS DETAILS
ACCESS ROADS
1, 2 AND 3

SHEET 81 OF 81

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jjoilliff	
PLOT SCALE = #SCALE#	
PLOT DATE = 3/8/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	



APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson (TOD)
ENGINEER OF BRIDGES AND STRUCTURES

Richard J. ...
LICENSED STRUCTURAL ENGINEER
NO. 004575
CHICAGO, ILLINOIS
STATE OF ILLINOIS
SEALS 11.30.2010
SEAL APPLIES TO BRIDGE SHEETS 1-152

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**I-70 MISSISSIPPI RIVER BRIDGE
ILLINOIS APPROACH**

Detailed JUL 2009
Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 152

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

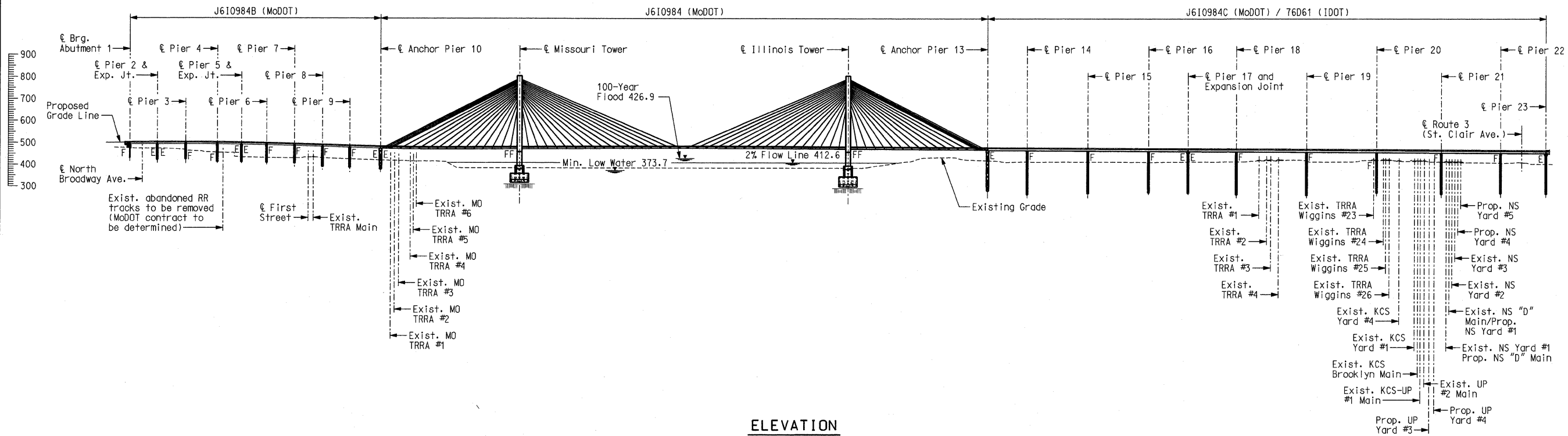
ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
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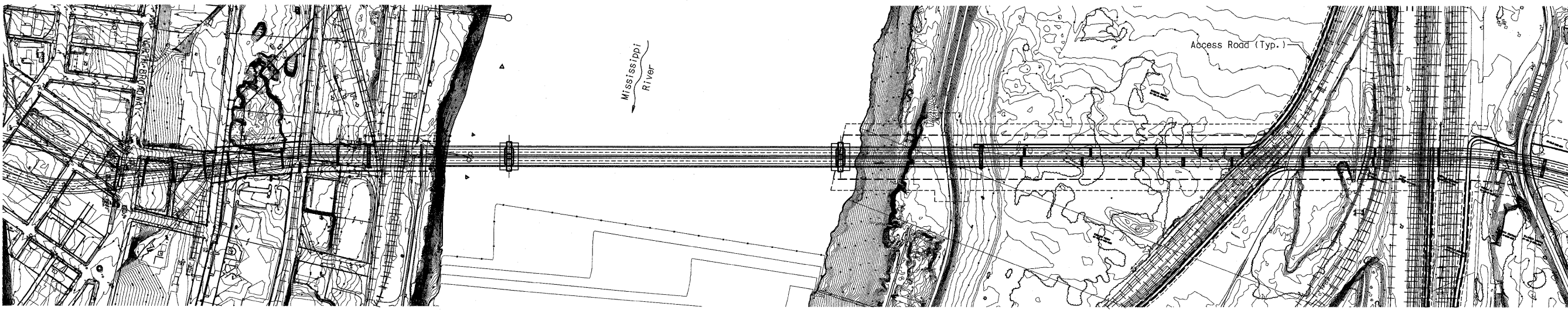
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ENGINEERING CORPORATION - 000631

F.A. ROUTE	SECTION
999	82-1B-2
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COUNTY	ST. CLAIR

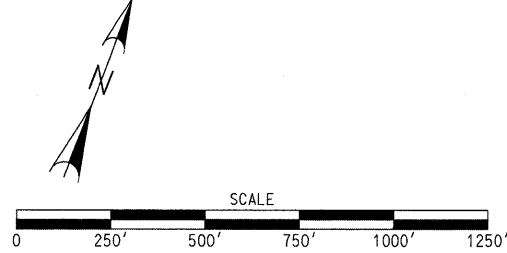
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PLOT DATE = 4/14/2010
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CHECKED - CMT
DRAWN - CMT / HNTB
REVISED -
REVISED -
REVISED -
REVISED -



ELEVATION



PLAN



Detailed JUL 2009
Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 2 of 152

OVERALL MISSISSIPPI RIVER BRIDGE LAYOUT

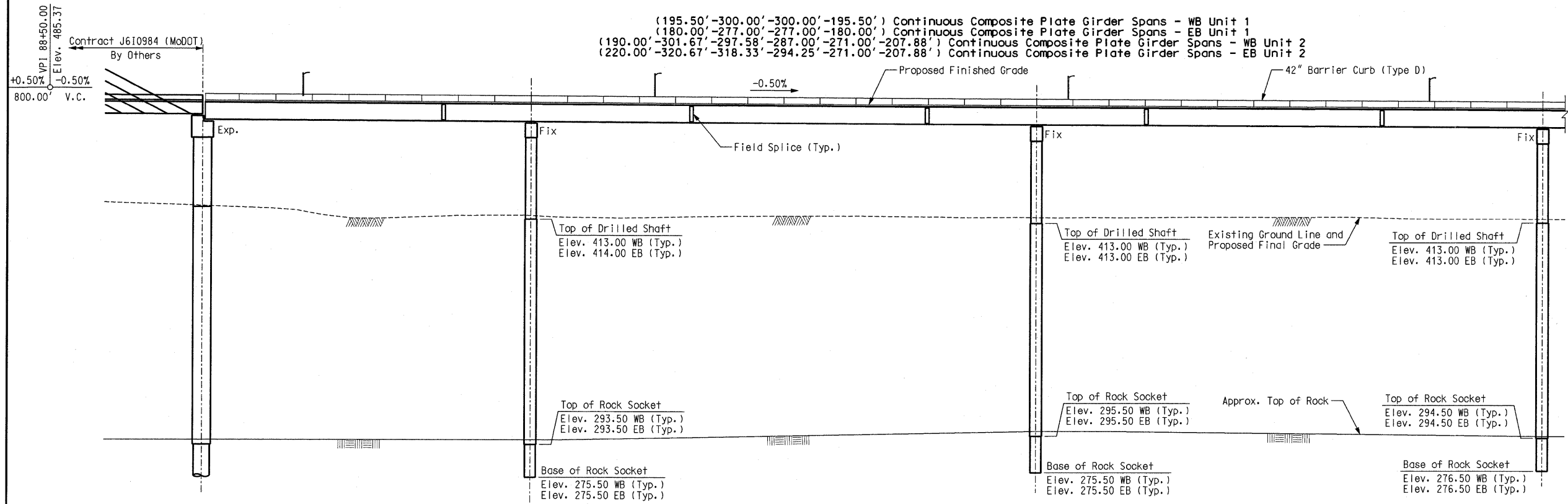
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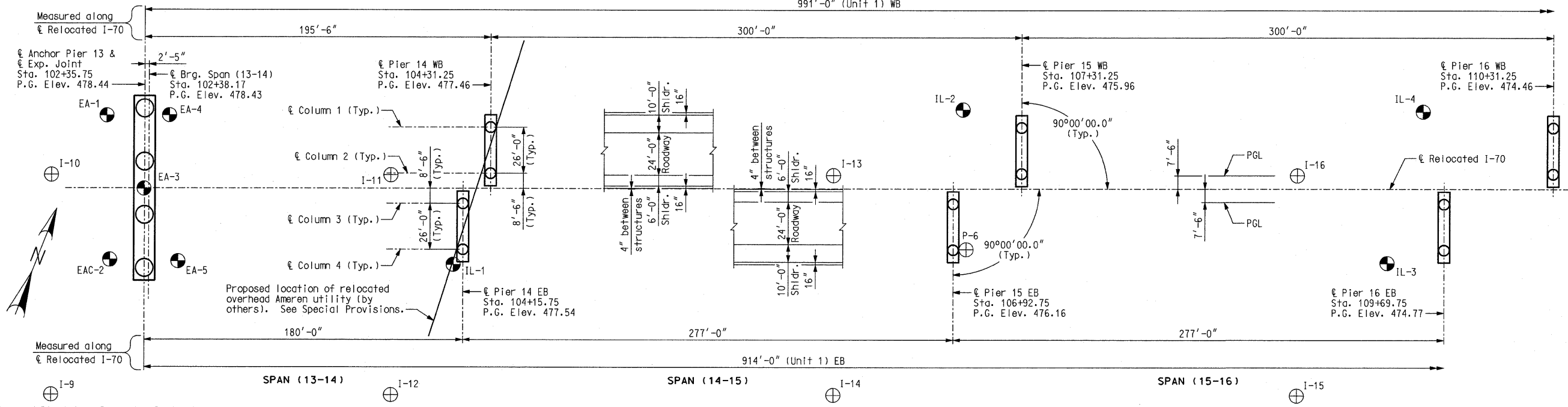
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NO. 001270

CMT
CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jcolliff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	



PART GENERAL ELEVATION
(Eastbound Spans Shown)



PART PLAN

Notice and Disclaimer Regarding Boring Log Data
The locations of all subsurface borings for this structure are shown on the bridge plan sheets for this structure. Boring data for the locations shown are located on Sheet Nos. 9 thru 15. The boring data for all locations indicated, as well as any other boring logs or other factual records of subsurface data and investigations performed by the department for the design of the project, will be provided in the bridge electronic deliverable file or will be available from the Project Contact upon written request as outlined in the Project Special Provisions. No greater significance or weight should be given to the boring data depicted on the plan sheets than is subsurface data available from the district or elsewhere.
These borings represent the findings from the drill hole at the location and time shown. Any extensions, interpolations or extensions beyond the diameter of the drilling instrument are not warranted and should only be used by others, for any reason, at their own risk. Any claims for either Type I or II changed site condition by a bidder or contractor or those claiming under them will be judged by the Engineer based on his/her engineering judgement as to the range of possible reasonable expectations that those borings produced.

Notes:
 ● Indicates location of borings drilled in 2008 - 2009.
 ⊕ Indicates approximate location of borings drilled prior to 2008.
 All dimensions are horizontal.

B.M. #7, Set in the southwest corner of concrete to a 6'x6' sq. 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 of Front Street and River Park, St. Louis, MO. Elev. = 416.06
 B.M. #10, Set in concrete median on the east side of Illinois Route 3 (St. Clair Ave.) between two railroad bridges. Approximately 0.1 mile south of 1st Street (in front of 301 St. Clair Ave. Warehouse & Store Fixture Co.) Elev. = 420.78
 B.M. #11, Set in the back of a 4.5' concrete walk (end of walk), located on the west side of Illinois Route 3 approximately 0.3 miles south of Canal Street. Elev. = 414.02

GENERAL PLAN AND ELEVATION - SPANS (13-14), (14-15), AND (15-16)

Detailed JUL 2009
Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions. Sheet No. 3 of 152

ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY NO. 001270

CMT
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 ENGINEERING CORPORATION - 000631

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jjo11ff	
PLOT SCALE = *SCALE*	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

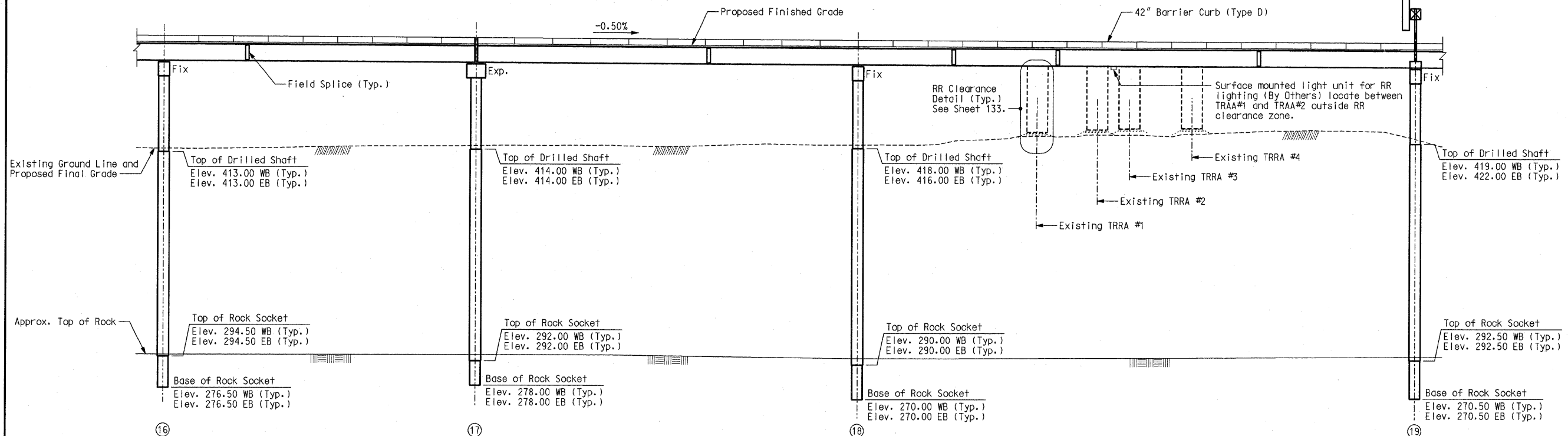
ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

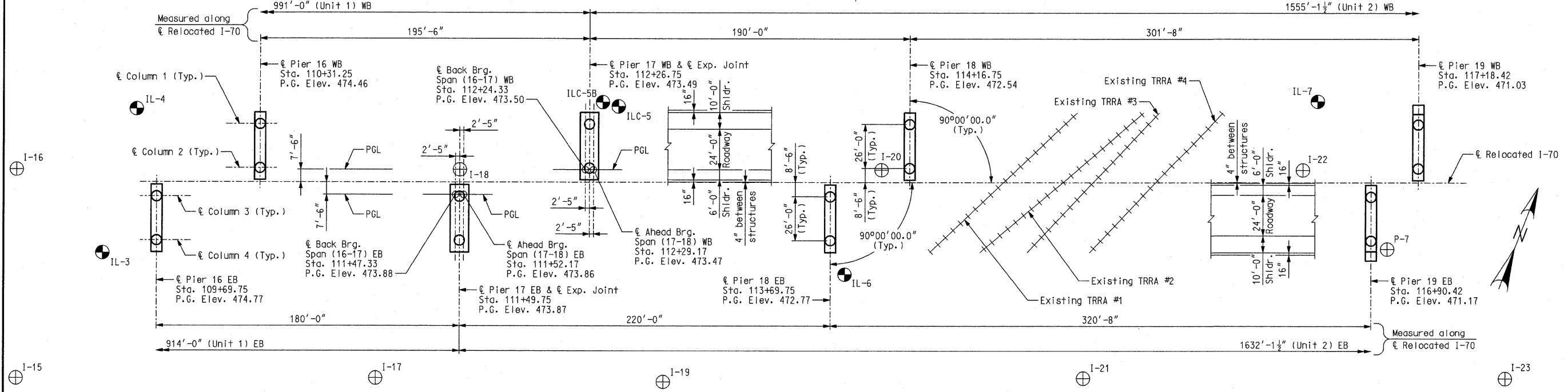
HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY NO. 001270

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CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
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ENGINEERING CORPORATION - 000631

(195.50'-300.00'-300.00'-195.50') Continuous Composite Plate Girder Spans - WB Unit 1
 (180.00'-277.00'-277.00'-180.00') Continuous Composite Plate Girder Spans - EB Unit 1
 (190.00'-301.67'-297.58'-287.00'-271.00'-207.88') Continuous Composite Plate Girder Spans - WB Unit 2
 (220.00'-320.67'-318.33'-294.25'-271.00'-207.88') Continuous Composite Plate Girder Spans - EB Unit 2



PART GENERAL ELEVATION
(Eastbound Spans Shown)



PART PLAN

SPAN (16-17)
Notes:
 ⊕ Indicates location of borings drilled in 2008 - 2009.
 ⊕ Indicates approximate location of borings drilled prior to 2008.
 All dimensions are horizontal.
 Boring data for the borings drilled in 2008 - 2009 is shown on Sheet Nos. 9 thru 15.
 See sheet no. 108 for light poile blister layout.

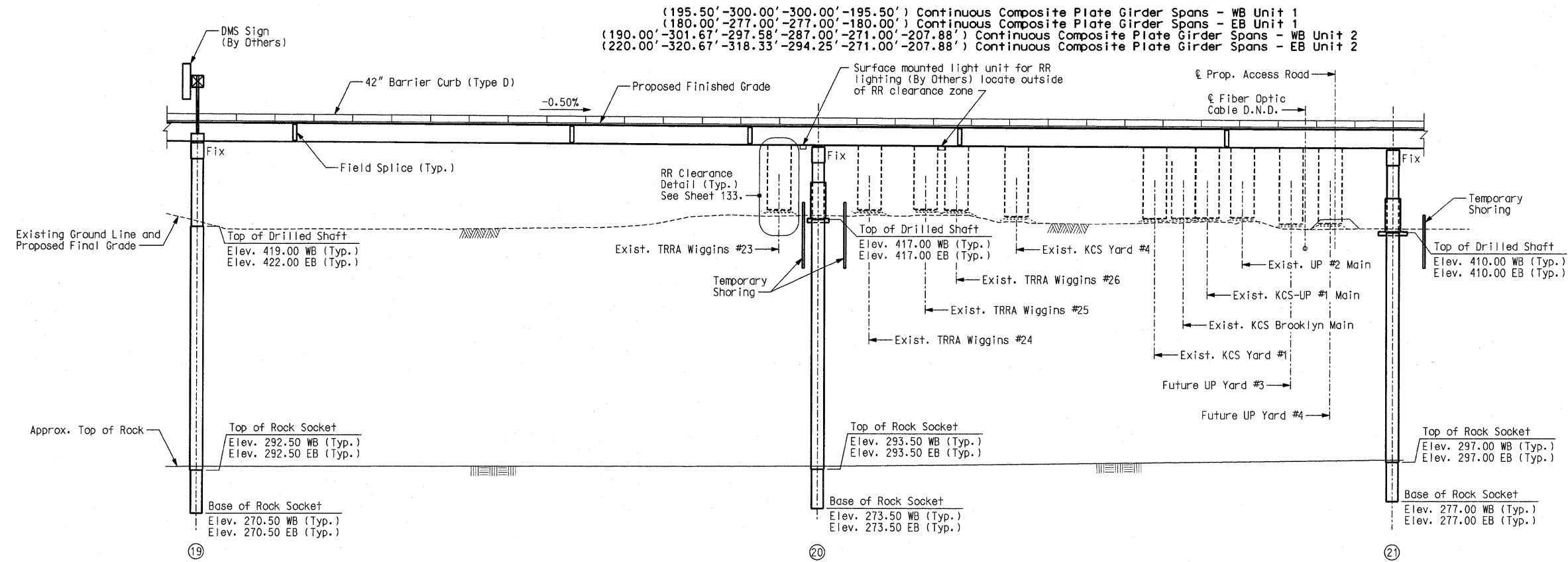
GENERAL PLAN AND ELEVATION - SPANS (16-17), (17-18), AND (18-19)

Detailed JUL 2009
Checked JUL 2009

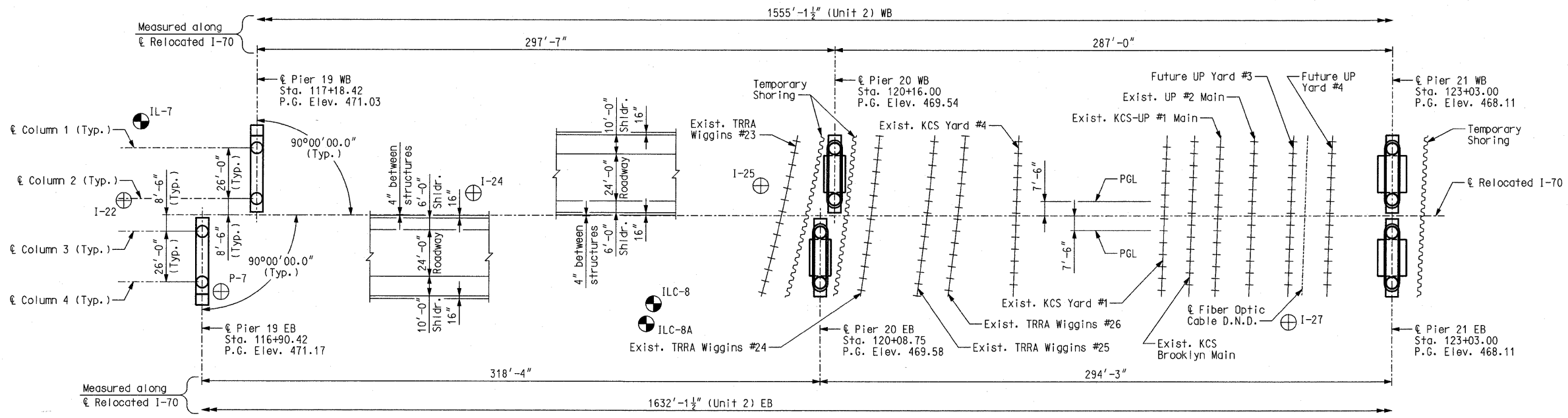
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 152

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jlliff	
PLOT SCALE = *SCALE*	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	



PART GENERAL ELEVATION
(Eastbound Spans Shown)



PART PLAN

Notes:
 ⊕ Indicates location of borings drilled in 2008 - 2009.
 ⊕ Indicates approximate location of borings drilled prior to 2008.
 All dimensions are horizontal.
 Boring data for the borings drilled in 2008 - 2009 is shown on Sheet Nos. 9 thru 15.
 See sheet no. 108 for light pole blister layout.

GENERAL PLAN AND ELEVATION - SPANS (19-20) AND (20-21)

Detailed JUL 2009
 Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

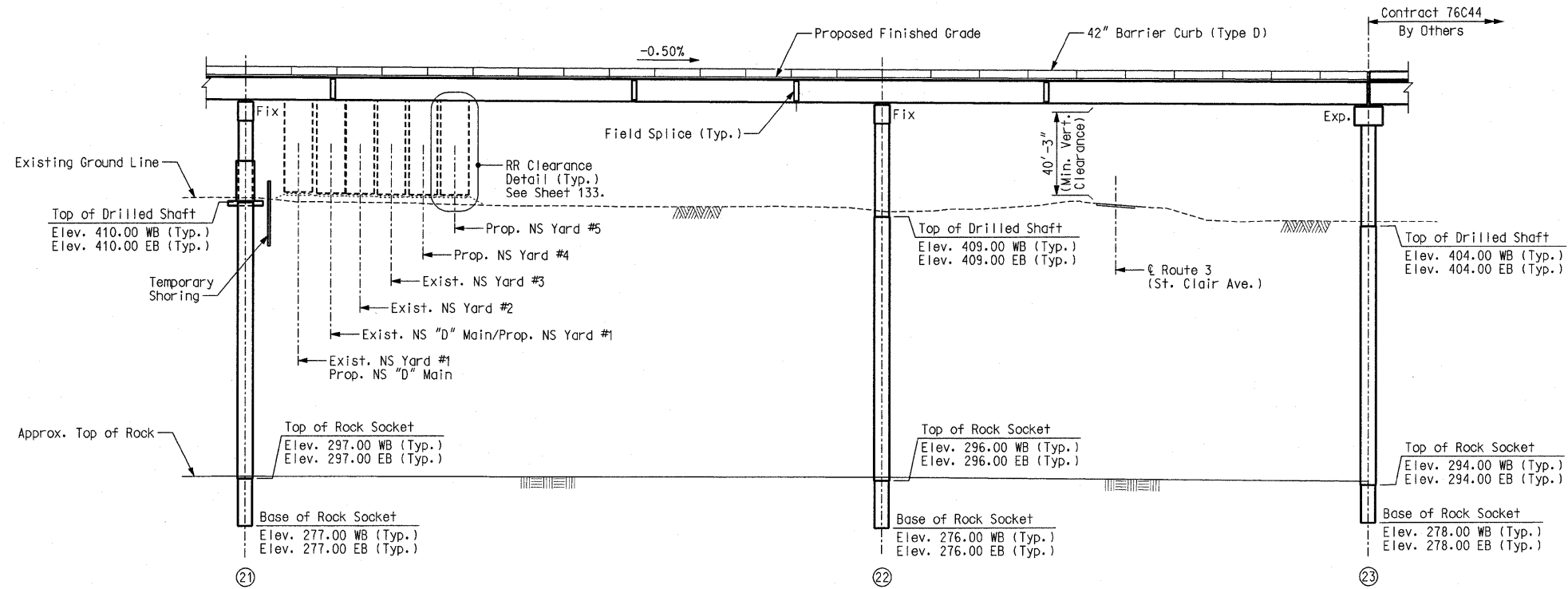
Sheet No. 5 of 152

ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

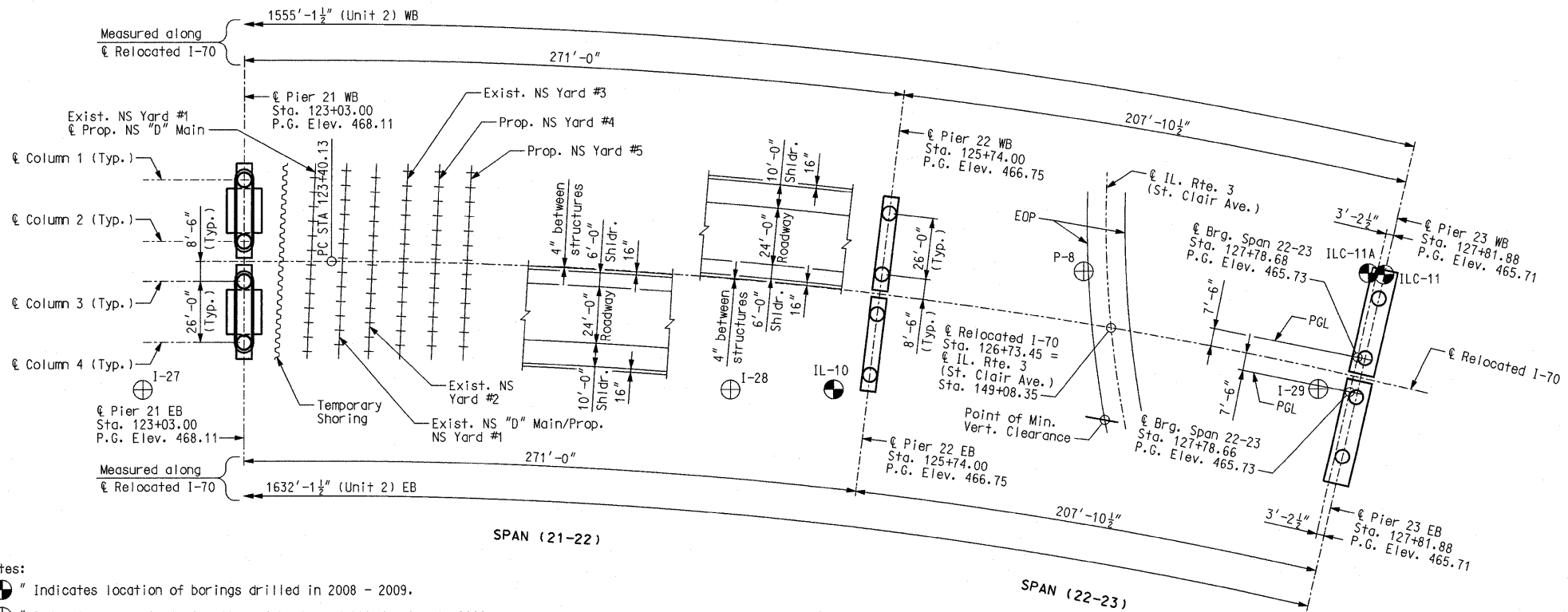
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 CERTIFICATE OF AUTHORITY NO. 001270

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 CRAWFORD, MURPHY & TILLY, INC.
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 SPRINGFIELD, IL 62702
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 ENGINEERING CORPORATION - 000631

(195.50'-300.00'-300.00'-195.50') Continuous Composite Plate Girder Spans - WB Unit 1
 (180.00'-277.00'-277.00'-180.00') Continuous Composite Plate Girder Spans - EB Unit 1
 (190.00'-301.67'-297.58'-287.00'-271.00'-207.88') Continuous Composite Plate Girder Spans - WB Unit 2
 (220.00'-320.67'-318.33'-294.25'-271.00'-207.88') Continuous Composite Plate Girder Spans - EB Unit 2



PART GENERAL ELEVATION
 (Eastbound Spans Shown)



Notes:
 "⊕" Indicates location of borings drilled in 2008 - 2009.
 "⊕" Indicates approximate location of borings drilled prior to 2008.
 All dimensions are horizontal.
 Boring data for the borings drilled in 2008 - 2009 is shown on Sheet Nos. 9 thru 15.

PART PLAN

GENERAL PLAN AND ELEVATION - SPANS (21-22) AND (22-23)

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jjoliff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2012	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	

ILLINOIS APPROACH STRUCTURE
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 MISSOURI HIGHWAYS
 AND TRANSPORTATION COMMISSION

HNTB
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 NO. 001270

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 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631

GENERAL NOTES:

Design Specifications:
 2007 - AASHTO LRFD 4th Edition and 2008 Interims
 Load and Resistance Factor Design
 2009 - AASHTO 1st Edition Guide Specifications for LRFD Seismic Design
 Seismic Design Category = Seismic Performance Zone 2 or 3
 Seismic Peak Horizontal Ground Acceleration:
 Design earthquake = 0.17 G
 Maximum credible earthquake = 0.23 G

Design Loading:
 HL-93 (LRFD Superstructure, LRFD Substructure)
 35#/Sq. Ft. Future Wearing Surface
 Earth 120#/Cu. Ft., Equivalent Fluid Pressure 45#/Cu. Ft.
 Superstructure: Continuous composite

Design Unit Stresses:
 Class B Concrete (Substructure) f'c = 3,000 psi
 Class B-2 Concrete (Drilled Shafts & Rock Sockets) f'c = 5,500 psi
 Class B-1 Concrete (Barrier Curbs) f'c = 4,000 psi
 Class B-2 Concrete (Superstructure, except Barrier Curbs) f'c = 4,000 psi
 Reinforcing Steel (Grade 60) fy = 60,000 psi
 Structural Steel (ASTM A709 Grade 50W) fy = 50,000 psi
 Structural Steel (ASTM A709 Grade HPS70W) fy = 70,000 psi
 Steel casing for drilled shafts (ASTM A252 Grade 2) fy = 35,000 psi

Fabricated Structural Steel:
 All fabricated structural steel shall be ASTM A709 Grade 50W unless noted otherwise.

Fabricated Steel Connections:
 Field connections shall be made with 1" diameter high strength bolts and 1 1/16" diameter holes, except as noted.

Joint Filler:
 All joint filler shall be in accordance with Sec 1057 for preformed sponge rubber expansion and partition joint filler, except as noted.

Reinforcing Steel:
 Minimum clearance to reinforcing steel shall be 1-1/2", unless otherwise shown.
 For bar supports for concrete reinforcement, see Sheet No. 118.

Structural Steel Protective Coating:
 System H in accordance with Sec 1081.
 Portions of the structural steel embedded in or in contact with concrete, including but not limited to the top flange of girders, shall be coated with not less than 2.0 mils of the prime coat for System H.

Prime Coat:
 The prime coat shall be applied in the fabrication shop. The cost of the prime coat will be considered completely covered by the contract unit price for the Fabricated Structural Steel. The surfaces of all structural steel located under expansion joints shall be coated with complete System H within a distance of 1 1/2 times the girder depth, but not less than 10 feet, from the centerline of all deck joints. Within this limit, items to be coated shall include all surfaces of beam, girders, diaphragms, stiffeners, bearings and miscellaneous structural steel items.

Field Coat:
 The color of the field coat shall be Brown (Federal Standard #30045). The cost of the intermediate and finish field coats will be considered completely covered by the contract unit price for the Fabricated Structural Steel. At the option of the contractor, the intermediate and finish field coats may be applied in the shop. The contractor shall exercise extreme care during all phases of loading, hauling, handling, erection and pouring of the slab to minimize damage and shall be fully responsible for all repairs and cleaning of the coating systems as required by the engineer.

Concrete Protective Coatings:
 Temporary coating for concrete bents and piers (weathering steel) shall be applied on all concrete surfaces above the ground line on all intermediate bents in accordance with Sec 711.
 Protective coating for concrete piers (Epoxy) shall be applied as shown on the bridge plans and in accordance with Sec 711.

Miscellaneous:
 A minimum vertical clearance of 16'-6" over existing IL Rte. 3 and a minimum lateral clearance of 15'-0" centered on existing lanes shall be maintained during construction.
 A minimum vertical clearance of 22'-0" from top of rails and a minimum lateral clearance of 13'-0" from the centerline of track to nearest temporary construction falsework shall be maintained at all times during construction. See Special Provisions for flagging requirements and railroad insurance.
 High strength bolts, nuts, and washers will be sampled for quality assurance as specified in Sec 106 and Field Section (FS-712) from the MoDOT Materials Manual.

Abbreviations:
 E.F. denotes Each Face
 N.F. denotes Near Face
 F.F. denotes Far Face

The contractor shall submit, for the engineer's approval, a detailed erection plan and procedure, including but not limited to, the sequence of girder erection and bolt tightening, and provisions for the stability of girders and blocking of the bearings during erection and until the concrete deck has reached its design strength. The detailed erection plan and procedure shall be sealed by a licensed structural engineer in the state of Illinois. The engineer's review of such plan and procedure does not relieve the contractor of any responsibility.

The contractor's attention is directed to the requirements for stability of steel girders from erection through strength development of the concrete deck. The girders on this bridge shall be stabilized by use of falsework, temporary bracing, compression flange stiffening trusses, by use of one or more holding cranes until a sufficient number of girders have been erected, are in place and cross frames installed or other proven methods as detailed by the contractor's engineer. The methods used by the contractor shall address all temporary girder conditions including but not limited to wind, simple and cantilever span conditions, temporary support points and reactions, and expected deflections for temporary conditions. The above requirements shall be documented in the stability calculations and erection drawings submitted for review.

The details in the plans were developed assuming the girder cross frames are fully installed and that the contractor adheres to the pouring sequences shown in the plans. The contractor's erection procedure or changes to the pouring sequences could cause deflections, camber, and screed elevations to differ from those calculated in the plans. The differences could affect "fit up" of the steel or incorrect final deck elevations.

If the contractor elects to change the pouring sequences, the effects shall be fully evaluated by the contractor's engineer allowing sufficient time for engineer's review and prior to fabrication. The engineer's review of such changes will be at the contractor's expense and does not relieve the contractor of any responsibility.

ESTIMATED QUANTITIES (BRIDGE)				
Item		Substr.	Superstr.	Total
Class 1 Excavation	cu. yard	105	---	105
Temporary Shoring	lump sum	1	---	1
Drilled Shafts (6 ft. 6 in. Dia.)	linear foot	4,694.0	---	4,694.0
Rock Sockets (6 ft. 0 in. Dia.)	linear foot	828.0	---	828.0
Supplementary Television Camera Inspection	each	20	---	20
Foundation Inspection Holes	linear foot	1,228.0	---	1,228.0
Concrete Coring	linear foot	556.0	---	556.0
Sonic Logging Testing	each	40	---	40
Class B Concrete (Substructure)	cu. yard	4,049.5	---	4,049.5
Slab On Steel	sq. yard	---	24,113	24,113
Barrier Curb (Type D)	linear foot	---	10,169	10,169
Reinforcing Steel (Bridges)	pound	3,359,440	---	3,359,440
Mechanical Bar Splice	each	5,200	---	5,200
Standpipe	lump sum	---	1	1
Reinforcing Steel (Epoxy Coated)	pound	177,290	---	177,290
Protective Coating - Concrete Bents and Piers (Epoxy)	lump sum	1	---	1
Temporary Coating - Concrete Bents and Piers (Weathering Steel)	lump sum	1	---	1
Fabricated Structural Low Alloy Steel (Misc)	pound	---	595,560	595,560
Fabricated Structural Low Alloy Steel (Plate Girder) A709, Grade 50W	pound	---	9,099,470	9,099,470
Fabricated Structural Low Alloy Steel (Plate Girder) A709 Grade HPS70W	pound	---	2,116,700	2,116,700
Drainage System (On Structure)	lump sum	---	1	1
POT Bearing	each	---	96	96
Modular Expansion Joint	linear foot	---	80	80
Non-Special Waste Disposal	cu. yard	708	---	708

Notes:
 * Slip-forming of the barrier curbs is not allowed.
 ** Non-Special Waste Disposal is included in the "SUMMARY OF QUANTITIES (ROADWAY)" table in the Roadway drawings.
 The cost of any required excavation down to the top of the drilled shafts will be considered completely covered by the contract unit price for Drilled Shafts (6 ft. 6 in. Dia.), unless noted otherwise.
 Contractor shall dispose of excavated material and drilling fluids removed from drilled shafts in accordance with Sec 701.4.7.2. Additionally, the contractor shall be responsible for securing a suitable off-site location to dispose of these materials. Payment for removal and disposal of said materials shall be completely covered by the contract unit price for Drilled Shafts (6ft. 6in. Dia.) and Rock Sockets (6ft. 0in. Dia.). Approval of said off-site disposal locations shall be done in accordance with Article 107.22 of the Illinois Standard Specification for Road and Bridge Construction.
 Concrete coring shall be performed on 10% of the drilled shafts in accordance with Sec 701.
 The contractor shall use a mechanical bar splice for #18-V, #14-V and #11-V-Bars at the specified locations. The total bar lengths for bars indicated in the bill of reinforcing steel are determined based on the end of bars being located at the end of the adjacent bar. No additional payment will be made for any additional bar lengths required for the mechanical bar splice. Mechanical bar splice shall be in accordance with the Special Provision for Mechanical Bar Splice. Substitution of lap splices at any location indicating mechanical bar splices is not allowed.
 All erosion control measures and maintenance plans shall be subject to review and approval of the affected Railroads in addition to IDOT requirements.

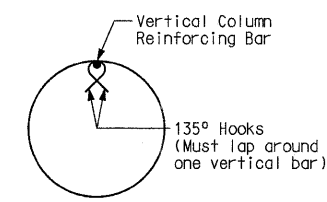
Note:
 On all bridge drawings (Sheets 1 thru 152) "Sec" refers to the sections in the Special Provisions unless specified otherwise.

ESTIMATED QUANTITIES FOR SLAB ON STEEL			
Item			Total
Class B-2 Concrete	cu. yard		4,562.0
Reinforcing Steel (Epoxy Coated)	pound		1,431,059

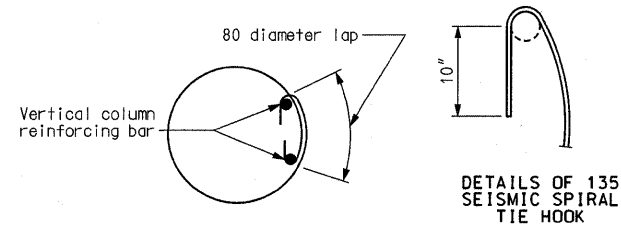
Notes:
 The table of Estimated Quantities for Slab on Steel represents the quantities used by the State in preparing the cost estimate for concrete slabs. The area of the concrete slab will be measured to the nearest square yard with the horizontal dimensions as shown on the plan of slab. Payment for prestressed panels, stay-in-place forms, conventional forms, all concrete, and coated and uncoated reinforcing steel will be considered completely covered by the contract unit price for the slab. Variations may be encountered in the estimated quantities but the variations cannot be used for an adjustment in the contract unit price.

Method of forming the slabs shall be as shown on the plans and in accordance with Sec 703. All hardware for forming the slab to be left in place as a permanent part of the structure shall be coated in accordance with ASTM A123 or ASTM B633 with a thickness class SC 4 and a finish type I, II, or III.

The prestressed panel quantities are not included in the table of Estimated Quantities for Slab on Steel.



DETAIL OF SEISMIC STIRRUP BAR



ANCHOR SPLICES IN SPIRAL AROUND VERTICAL BAR (USE FOR INTERMEDIATE SPLICES OF SPIRALS)

Pier No.		14 (WB)	14 (EB)	15 (WB)	15 (EB)	16 (WB)	16 (EB)	17 (WB)	17 (EB)	18 (WB)	18 (EB)	19 (WB)	19 (EB)	20 (WB)	20 (EB)	21 (WB)	21 (EB)	22 (WB)	22 (EB)	23 (WB)	23 (EB)
Rock Sockets	Foundation Material	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock	Rock
	Number	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	Design Side Friction	kips/sq. foot	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70	11.70
	Design End Bearing	kips/sq. foot	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

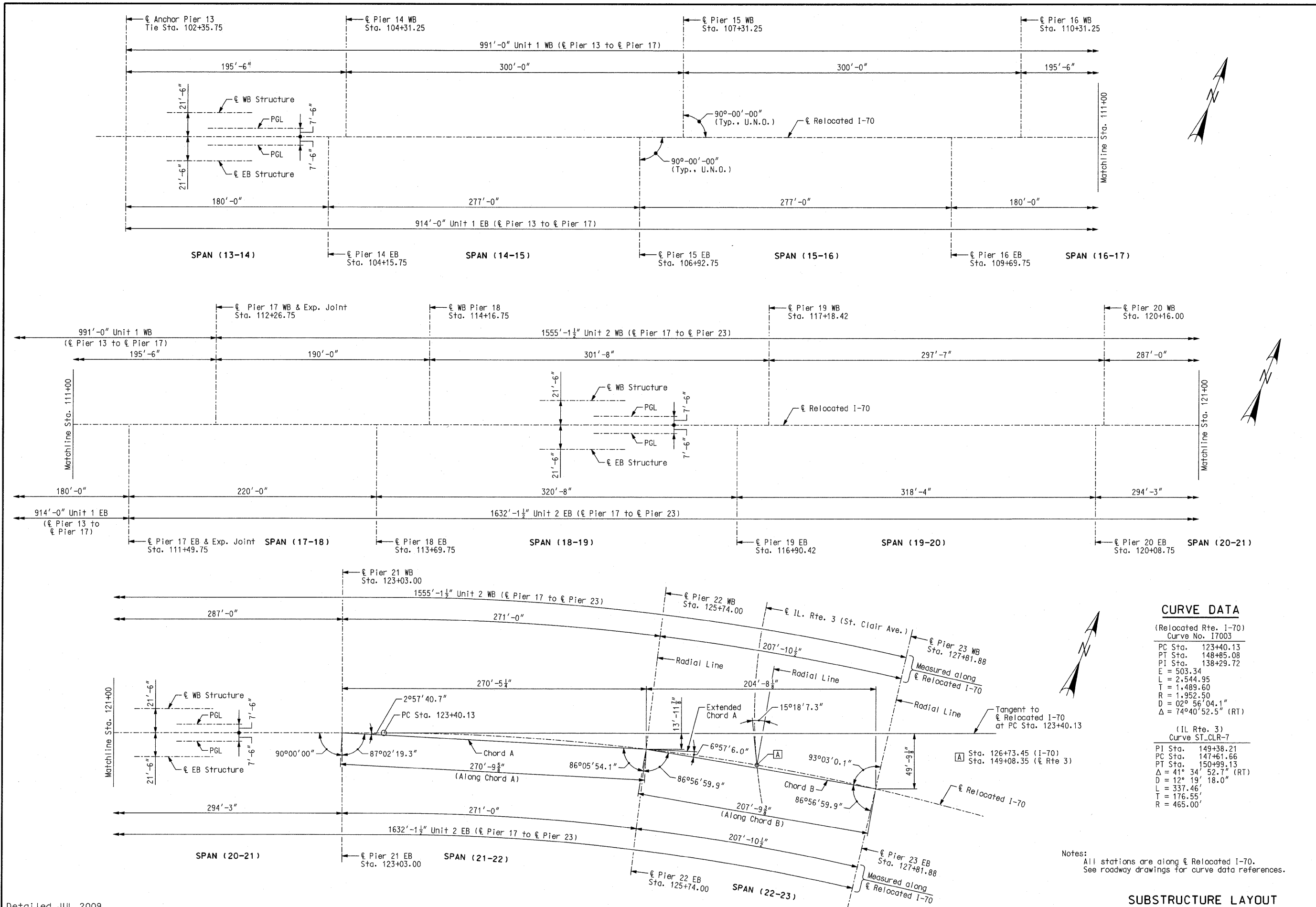
CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jcolliff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 MISSOURI HIGHWAYS
 AND TRANSPORTATION COMMISSION

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CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = Jjolliff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
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REVISED -	
REVISED -	
REVISED -	
REVISED -	

ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS
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SPRINGFIELD, IL 62102
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ENGINEERING CORPORATION - 000631

Detailed JUL 2009
Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 8 of 152

SUBSTRUCTURE LAYOUT

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jjolliff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
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DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

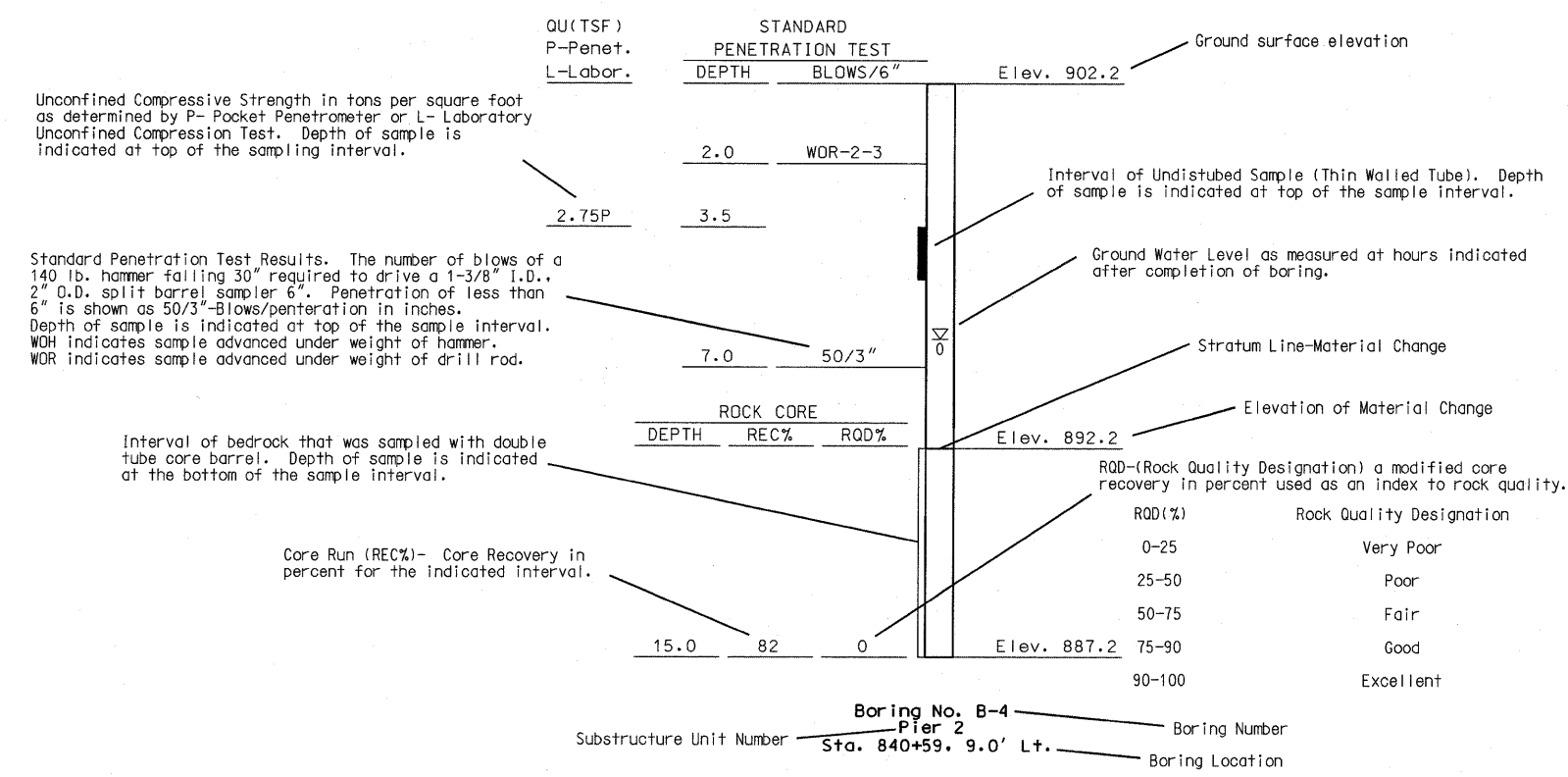
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ENGINEERING CORPORATION - 000631

QU(TSF) P-Penet. L-Labor.	STANDARD PENETRATION TEST		Elev. 421.8	
	DEPTH	BLOWS/6"		
	3.5	10-15-15	Brown, Medium Dense to Loose, Fine SAND, Dry to Wet. (SP). Trace Fine Gravel	
	8.5	4-6-8		
	13.5	4-6-6		
	18.5	2-2-3		
	23.5	5-5-6		
	28.5	3-3-6		
	33.5	3-8-8		Elev. 389.8
	38.5	5-5-5		Gray, Medium Dense to Loose, Fine Silty SAND, Wet. (SM)
0.25P	43.5	1-1-2		Elev. 378.3
0.5P	48			Gray, Soft, CLAY, Moist. (CH) Elev. 373.8
0.5P	53		Gray, Soft, Sandy CLAY, Moist. (CL) Elev. 368.8	
	58.5	9-10-11	Gray, Soft, CLAY, Moist. (CH) Elev. 363.3	
	63.5	15-18-17	Gray, Medium Dense to Dense, Medium to Fine SAND, Wet. (SP)	
	68.5	9-9-7		
	73.5	11-15-14	Elev. 348.3	
	78.5	18-18-16	Gray, Medium Dense, Coarse to Fine SAND, Wet. (SP), Trace Gravel Elev. 343.3	
	83.5	15-16-20	Gray, Dense to Very Dense, Medium to Very Fine SAND, Wet. (SP) - gravel layer from 96.0 to 97.0 ft.	
	88.5	13-16-21	Elev. 318.3	
	93.5	15-13-24	Gray, Very Dense to Dense, Coarse to Fine SAND, Wet. (SW), Some to Trace Gravel Elev. 308.3	
	98.5	20-29-33	Gray, Very Dense, Medium to Fine SAND, Wet. (SP), Trace Coarse SAND - gravel layer from 117.0 to 118.0 ft. Elev. 303.3	
	103.5	10-27-23	Gray, Dense, Coarse to Fine SAND, Wet. (SW), Little Fine Gravel Elev. 299.3	
	108.5	16-20-22	LIMESTONE Boulders and Cobbles Elev. 298.6	
	113.5	30-37-42	LIMESTONE, gray to dark gray, hard, finely to very finely crystalline, thin to very thick bedded, slightly weathered - dark gray, medium to thick bedded below 124.5 ft. - gray below 129.5 ft. - very finely crystalline, thick bedded from 137.0 to 138.3 ft. - finely crystalline below 138.5 ft. - dark gray from 139.7 to 140.1 and 141.5 to 142.6 ft. - very thick bedded below 148.5 ft. - gray to dark gray from 163.5 to 165.0, 165.8 to 166.4 and below 168.5 ft. - dark gray from 170.2 to 170.3 ft. - gray, medium to thin bedded below 188.5 ft. - dolomite from 124.5 to 126.0 and 126.7 to 126.9 ft. - dark gray, dolomitic from 160.1 to 161.1 ft. - calcite deposit from 162.6 to 163.1 and 186.3 to 186.8 ft. - 1.0" gray, soft, shale seam at 128.3 ft. - 0.12" gray, soft, shale seam at 173.7 ft. - dark gray, soft shale seam from 178.1 to 178.3 ft. - 0.12" dark gray, soft, shale seam at 181.0 ft. - 2.0" gray, soft, shale seam at 188.8 ft. - multiple cemented horizontal fractures from 133.5 to 134.0 ft. - cemented horizontal fractures at 135.1, 135.8, 138.6, 139.5, 140.2, 143.0, 144.2, 145.5, 170.0, 170.4, 171.9, 172.4, 172.9 and 173.3 ft. - cemented vertical joint from 126.7 to 126.9 ft. - multiple fractures from 131.0 to 132.0 ft. - fractured from 175.8 to 175.9 ft. - vertical joint from 139.9 to 140.4 ft. - 45 degree fracture at 183.0 ft. - multiple cemented 45 degree and horizontal fractures from 183.5 to 185.0 ft. - cherty from 131.4 to 133.4, 133.5 to 135.9, 142.0 to 143.0 and 157.3 to 157.5 ft. - 2.0" chert seam at 166.7 ft. - chert nodules at 168.7 ft. Elev. 228.3	
	118.5	24-20-25		
	124.5	100		46
331.3L	129.5	100		95
690.1L	133.5	100		63
	138.5	100		100
598.1L	143.5	100		100
609.8L	148.5	100		95
	153.5	100		100
742.1L	158.5	100		100
461.7L	163.5	100		100
762.8L	168.5	100		100
	173.5	100		83
706.7L	178.5	100		83
	183.5	100		95
418.5L	188.5	100	90	
	193.5	100	73	

Boring Number EA-1
Anchor Pier 13
Sta. 102+14.48, 41.04' Lt.
BORING DATA (1 OF 7)

TYPICAL BORING



GENERAL NOTES:

The borings shown in these plans were drilled by Geotechnology, Inc., under the direction of HNTB Corporation, between September 29, 2008 and January 12, 2009. For boring locations in plan, see Sheet Nos. 3 through 6.

The ground water levels shown were recorded during time of drilling. Porosity of soil strata, weather conditions, seasonal changes, site topography, etc., may cause changes in the water levels reported.

The boring information shown on this drawing is abbreviated. The boring data for all locations indicated, as well as any other boring logs or other factual records of subsurface data and investigations performed by the department for the design of the project, will be provided in the bridge electronic deliverable file or will be available from the Project Contact upon written request as outlined in the Project Special Provisions. No greater significance or weight should be given to the boring data depicted on the plan sheets than is subsurface data available from the district or elsewhere.

For notice and disclaimer regarding boring log data, see Sheet No. 3.

QU (TSF) P-Penet. L-Labor.	STANDARD PENETRATION TEST		Elev. 421.9
	DEPTH	BLOWS/6"	
1.5P	3.5	8-16-17	Brown, Dense, Medium SAND, Moist, (SW)
	8		
1.5P	13		Elev. 408.9
	18.5	3-3-3	Brown, Dense to Loose, Fine SAND, Moist, (SP)
	23.5	2-3-5	
	28.5	7-5-9	Elev. 393.4
	33.5	2-6-2	Brown, Medium Dense, Medium to Coarse SAND, Wet, (SW) Elev. 388.4
	38.5	9-10-11	Brown, Loose to Medium Dense, Fine SAND, Wet, (SP) - gray lean clay seam at 34.5 ft.
	43.5	17-16-16	Elev. 378.9
	48.5	15-16-20	Gray, Dense, Fine SAND, Wet, (SP) Elev. 373.4
	53.5	12-13-14	Gray, Dense to Medium Dense, Medium to Coarse SAND, Wet, (SW), Few Gravel
	58.5	11-14-14	
	63.5	10-11-13	Elev. 358.4
	68.5	15-19-33	Gray, Medium to Very Dense, Medium SAND, Wet, (SP) - fine sand below 69.5 ft.
	73.5	14-16-16	Elev. 348.4
	78.5	18-22-28	Gray, Dense to Very Dense, Medium to Coarse SAND, Wet, (SW), Trace Gravel
	83.5	21-23-25	
	88.5	10-11-14	Elev. 333.4
	93.5	20-37-33	Black to Gray, Medium to Very Dense, Fine to Medium SAND, Wet, (SP)
	98.5	19-50/4"	Elev. 323.4
	103.5	47-22-21	Gray, Very Dense, Medium to Coarse SAND, Wet, (SW), Few Gravel Elev. 318.4
	108.5	20-24-22	Gray, Dense, Coarse SAND, Wet, (SP), Few Gravel Elev. 313.4
	113.5	22-27-30	Gray, Dense to Very Dense, Coarse SAND, (SW), Some Gravel
	118.5	37-40-50	
	123.5	50/1"	
ROCK CORE			Elev. 298.4
	DEPTH	REC%	ROD%
325.4L	129	97	83
389.3L	134	98	90
228.1L	139	98	95
	144	100	100
578.3L	149	100	97
	154	97	97
1047.7L	159	100	97
	164	100	95
160.8L	169	100	98
396.9L	174	100	90
	179	100	87
926.1L	184	100	87
	189	100	93
	194	100	62

Boring No. EAC-2
Anchor Pier 13
Sta. 102+16.29, 40.33' Rt.

QU (TSF) P-Penet. L-Labor.	STANDARD PENETRATION TEST		Elev. 420.7
	DEPTH	BLOWS/6"	
	3.5	7-11-12	Brown, Medium Dense, Medium to Fine SAND, Moist, (SP)
	8.5	4-8-9	
	13.5	4-4-4	Elev. 408.7
	18.5	3-4-4	Light Brown to Brown, Loose, Fine SAND, Moist to Wet, (SP), Trace Organics
	23.5	3-2-4	
	28.5	6-6-6	Elev. 393.7
	33.5	4-5-6	Brown to Gray, Medium Dense, Fine SAND, Wet, (SP) - 0.5" Layer of Organic Material at 35.0'
0.25P	38.5	2-2-2	Elev. 382.2
0.5P	43		Gray, Very Soft, Fat CLAY, Moist, (CH) Elev. 377.7
1.0P	48		Gray, Soft, Lean Sandy CLAY, Moist, (CL) Elev. 372.7
	53.5	18-30-26	Gray, Firm, Fat Sandy CLAY, Moist, (CH) Elev. 367.2
	58.5	8-13-15	Gray, Very Dense, Fine Silty SAND, Wet, (SM) Elev. 362.2
	63.5	6-18-31	Gray, Medium Dense to Dense, Fine to Medium SAND, Wet, (SW), Trace to Some Gravel Elev. 353.7
	68.5	16-15-14	Gray, Medium Dense, Medium Silty SAND, Wet, (SM), Trace Gravel Elev. 348.7
	73.5	14-14-17	Gray, Dense, Fine to Medium SAND, Wet, (SW), Trace Gravel
	78.5	16-16-20	
	88.5	16-22-18	Elev. 333.7 Gray, Dense, Fine Silty SAND, Wet, (SM) Elev. 325.7
	98.5	14-25-41	Gravel- Cobbles - rough drilling Elev. 322.7
	108.5	24-19-15	Gray, Very Dense, Medium SAND, Wet, (SP) - cobble at 100.0 ft. Elev. 317.7
	118.5	31-28-23	Gravel- Cobbles - rough drilling Elev. 316.7
	126	100	53
	131	100	87
	136	98	98
	141	100	95
	146	100	100
	151	100	98
	156	100	100
	161	100	100
	166	100	98
	171	100	100
	176	100	80
	181	100	88
	186	100	77
	191	100	87
	194	100	75

Boring No. EA-3
Anchor Pier 13
Sta. 102+35.52, 0.17' Rt.

QU (TSF) P-Penet. L-Labor.	STANDARD PENETRATION TEST		Elev. 420.1
	DEPTH	BLOWS/6"	
	3.5	5-7-7	Brown, Medium Dense, Medium to Fine SAND, Moist, (SP)
	8.5	4-7-7	
	13.5	5-8-8	Brown, Medium Dense, Medium to Fine SAND, Moist, (SP)
	18.5	3-5-9	
	23.5	4-6-9	Elev. 388.1
	28.5	4-5-7	Dark Gray to Gray, Loose to Medium Dense, Fine Silty SAND, Wet, (SM), Trace Wood
	33.5	4-4-6	
	38.5	4-7-6	Elev. 376.1
0.5P	43.5	5-3-3	Gray, Soft, Fat CLAY, Moist, (CH) Elev. 372.1
1.0P	48		Dark Gray, Stiff, Fine Sandy SILT, (ML) Elev. 367.1
	53		Gray, Medium Dense, Fine SAND, Wet, (SP) Elev. 361.6
	58.5	7-8-7	Gray, Medium Dense, Medium to Fine SAND, Wet, (SW), Trace Fine Gravel Elev. 356.6
	63.5	16-20-22	Gray, Dense to Medium Dense, Medium to Fine SAND, Wet, (SP)
	68.5	18-19-21	
	73.5	9-12-15	Elev. 341.6
	78.5	7-12-15	Gray, Medium Dense, Medium to Fine SAND, (SW) Elev. 336.6
	83.5	10-16-13	Dark Gray, Medium to Very Dense, Fine SAND, Wet, (SP), Trace Organics, Clay - rough drilling from 94.5 to 95.0 and 98.0 to 98.5 ft., gravel, cobbles and boulders
	93.5	16-38-50/0"	
	103.5	16-17-17	Elev. 316.6
	113.5	21-34-42	Gray, Dense, Coarse to Fine SAND, Wet, (SW), Little Fine Gravel Elev. 306.6
	124.5	100	39
	129.5	100	100
	134.5	100	98
	139.5	100	95
	144.5	100	100
	149.5	100	68
	154.5	100	98
	159.5	100	100
	164.5	100	85
	169.5	100	100
	174.5	100	97
	179.5	100	97
	184.5	100	92
	189.5	100	88
	194.5	95	80

Boring No. EA-4
Anchor Pier 13
Sta. 102+49.80, 41.16' Lt.

Detailed JUL 2009
Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Note: For Typical Boring and General Notes, see Sheet No. 9.
Sheet No. 10 of 152

BORING DATA (2 OF 7)

CONTRACT NO. 76D61

F.A. ROUTE 999 SECTION 82-1B-2

FED. AID PROJECT ILLINOIS

COUNTY ST. CLAIR

USER NAME = jlliff

PLOT SCALE = #SCALE#

PLOT DATE = 4/14/2010

DESIGNED - HNTB

CHECKED - CMT

DRAWN - CMT / HNTB

REVISD -

REVISD -

REVISD -

REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

ILLINOIS APPROACH STRUCTURE
FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY
NO. 001270

CMT
CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

QU(TSF) P-Penet. L-Labor.	STANDARD PENETRATION TEST	Elev. 420.6
DEPTH	BLOWS/6"	
3.5	5-10-10	
8.5	3-5-7	
13.5	2-3-3	
18.5	1-2-2	
23.5	2-3-3	
28.5	5-5-5	
33.5	2-2-3	Elev. 388.6
38.5	7-10-16	Dark Gray, Loose, Sandy SILT, Wet, (ML) Elev. 383.6
43.5	10-15-18	
48.5	15-20-15	
53.5	6-7-9	Brown and Gray, Medium Dense to Dense, Fine SAND, Wet, (SP), Medium to Fine below 49.5ft., Fine to Coarse below 59.5 ft.
58.5	6-8-14	
63.5	9-12-21	
68.5	20-31-31	Elev. 353.6
73.5	11-16-23	
78.5	10-11-12	
83.5	25-21-27	Gray, Very Dense to Medium Dense, Fine to Medium SAND, Wet, (SP) - some gravel layers encountered from 72.0 to 82.0 ft. - coarse to medium SAND at 79.0 ft. - cherty gravel layer at 84.0 ft - rough drilling from 96.0 to 97.5, 103.0 to 104.0 and 106.0 to 108.5 ft.
88.5	15-19-19	
98.5	22-27-25	
108.5	38-20-14	Elev. 312.1
118.5	23-34-30	Gray to Brown, Dense to Very Dense, Coarse to Fine SAND, Wet, (SW), Little Fine Gravel, Trace Limestone Fragments
ROCK CORE		
DEPTH	REC%	RQD%
125.5	72	33
130.5	100	93
135.5	100	80
140.5	100	93
145.5	100	87
150.5	100	95
155.5	100	95
160.5	100	100
165.5	100	97
170.5	100	97
175.5	100	100
180.5	100	95
185.5	100	92
190.5	100	95
195.5	100	60

Brown, Medium Dense to Very Loose, Medium
to Fine Grained SAND, Moist, (SP)

Elev. 388.6
Dark Gray, Loose, Sandy SILT, Wet, (ML)
Elev. 383.6

Elev. 353.6

Gray, Very Dense to Medium Dense, Fine to Medium
SAND, Wet, (SP)
- some gravel layers encountered from 72.0
to 82.0 ft.
- coarse to medium SAND at 79.0 ft.
- cherty gravel layer at 84.0 ft
- rough drilling from 96.0 to 97.5, 103.0 to
104.0 and 106.0 to 108.5 ft.

Elev. 312.1

Gray to Brown, Dense to Very Dense, Coarse
to Fine SAND, Wet, (SW), Little Fine Gravel,
Trace Limestone Fragments

Elev. 297.6

DOLOMITE, dark gray, hard, finely crystalline,
thin bedded, slightly weathered
Elev. 292.9

LIMESTONE, dark gray to gray, hard, finely
to medium crystalline, thin to thick bedded,
slightly weathered to fresh
- fresh and thick bedded below 130.5 ft.
- thin bedded below 140.5 ft.
- thick bedded below 145.5 ft.
- medium to thick bedded and slightly weathered
below 155.5 ft.
- gray, finely to medium crystalline, and medium
to thick bedded below 175.5 ft.
- dark gray, dolomite, pitted to slightly pitted
from 163.2 to 164.4 and 167.8 to 169.5 ft.
- gray, soft, shale seams at 132.4, 134.3, and
135.0 ft.
- trace gray shale at 164.6 and 179.0 ft.
- 1.0" gray, soft, shale seams at 174.3 and
174.6 ft.
- dark blue shale seam from 181.5 to 181.6 ft.
- blue shale seams at 189.9 and 190.3 ft.
- cemented horizontal joints from 182.3 to
183.0 ft.
- 45 degree fracture at 171.0 ft.
- cemented vertical fracture from 179.0 to 179.8,
185.5 to 187.0 and 187.3 to 187.8 ft.
- chert nodules at 132.3 and 134.3 ft.
- 1.0" chert seam at 170.4 ft.
- chert lense at 172.9 ft.
- trace chert at 190.8 ft.
- 0.5" chert seams from 192.9 to 193.8 ft.

Elev. 225.1

Boring No. EA-5
Anchor Pier 13
Sta. 102+54.85, 41.23' Rt.

QU(TSF) P-Penet. L-Labor.	STANDARD PENETRATION TEST	Elev. 415.7
DEPTH	BLOWS/6"	
3.5	4-4-6	
8.5	3-3-4	
13.5	2-3-2	
18.5	1-2-2	
23.5	WOH-1-2	
28.5	3-3-2	
33.5	4-1-1	Elev. 381.9
38.5	6-3-2	Gray, Soft, Fat CLAY, Moist, (CH) Elev. 378.7
43.5	10-15-11	Dark Gray, Loose, Fine, Silty SAND, Wet, (SM) Elev. 372.2
48.5	11-9-10	Dark Gray, Medium Dense, Fine to Coarse SAND, Wet, (SW), Trace Gravel
53.5	11-10-9	Elev. 362.2
58.5	7-8-8	Dark Gray, Medium Dense, Fine, Silty SAND, Wet, (SM) Elev. 357.2
63.5	6-9-10	Dark Gray, Medium Dense, Fine SAND, Wet, (SP) Elev. 352.2
68.5	11-18-24	Gray, Medium Dense to Dense, Coarse SAND, Wet, (SW), Trace Gravel Elev. 346.9
73.5	14-16-22	Gray, Dense, Fine to Medium SAND, Wet, (SP), Trace Gravel Elev. 338.7
78.5	15-22-23	Gray, Dense, Fine, Silty SAND, Wet, (SM) - possible boulder at 81.0 ft. Elev. 333.7
83.5	35-42-45	
88.5	50/3"	
93.5	38-32-32	Gray to Dark Gray, Very Dense, Fine SAND, Wet, (SP), Some Gravel and Cobbles
98.5	14-14-21	Elev. 317.2
103.5	12-29-26	
108.5	31-30-32	Gray, Dense to Very Dense, Coarse SAND, Wet, (SW), Trace Gravel
113.5	18-20-24	Elev. 295.7
ROCK CORE		
DEPTH	REC%	RQD%
125	100	88
130	100	100
135	100	80
140	100	98
145	100	90
150	100	85
155	98	95
160	100	100
165	100	85
170	100	97

Brown, Loose, Medium to Fine SAND, Dry, (SW)

Elev. 407.2

Brown to Dark Gray, Loose to Very
Loose, Fine SAND, Dry to Wet, (SP)

Elev. 381.9
Gray, Soft, Fat CLAY, Moist, (CH)
Elev. 378.7

Dark Gray, Loose, Fine, Silty SAND, Wet, (SM)
Elev. 372.2

Dark Gray, Medium Dense, Fine to
Coarse SAND, Wet, (SW), Trace Gravel

Elev. 362.2

Dark Gray, Medium Dense, Fine, Silty SAND, Wet, (SM)
Elev. 357.2

Dark Gray, Medium Dense, Fine SAND, Wet, (SP)
Elev. 352.2

Gray, Medium Dense to Dense, Coarse
SAND, Wet, (SW), Trace Gravel
Elev. 346.9

Gray, Dense, Fine to Medium SAND, Wet,
(SP), Trace Gravel
Elev. 338.7

Gray, Dense, Fine, Silty SAND, Wet, (SM)
- possible boulder at 81.0 ft.
Elev. 333.7

Gray to Dark Gray, Very Dense, Fine
SAND, Wet, (SP), Some Gravel and Cobbles

Elev. 317.2

Gray, Dense to Very Dense, Coarse
SAND, Wet, (SW), Trace Gravel

Elev. 295.7

DOLOMITE, gray, hard, finely crystalline,
thin bedded, slightly weathered
- cemented fracture at 123.1 ft.
- medium hard, clay seam from 123.8 to 123.9 ft.
Elev. 291.8

LIMESTONE, gray, hard, finely crystalline,
thin to thick bedded, fresh
- medium bedded below 150.0 ft.
- thick bedded below 160.0 ft.
- dolomite from 135.8 to 139.0, 140.0 to 141.0,
159.1 to 160.3 and 163.7 to 165.0 ft.
- 1.0" hard, clay seam at 160.5 ft.
- cemented horizontal fractures from 126.2
to 129.4, at 132.2, 132.9, 133.6, from 145.0
to 147.7, at 155.3, 160.4, 160.7, and 163.3 ft.
- cemented fractures from 141.7 to 144.7 ft.
- horizontal fractures at 150.8 and 154.9 ft.
- cemented vertical fracture from 145.0
to 145.6 ft.
- chert lenses from 131.9 to 135.0, at 141.2,
165.9, 166.8, and 168.8 ft.
- 1.0" chert seam at 154.5 ft.

Elev. 245.7

Boring Number IL-1
Pier 14
Sta. 104+10.30, 42.99' Rt.

QU(TSF) P-Penet. L-Labor.	STANDARD PENETRATION TEST	Elev. 413.7
DEPTH	BLOWS/6"	
3.5	4-4-6	
8.5	2-2-2	
13.5	2-2-2	
18.5	3-2-4	
23.5	3-5-5	
28.5	6-6-5	
33.5	4-5-6	
38.5	4-3-3	Elev. 375.2
43		Gray, Soft to Firm, CLAY, Moist, (CH), With Sand
48.5	2-3-3	Elev. 365.2
53.5	3-3-3	Gray, Soft, Sandy, Clayey SILT, Moist, (ML)
58.5	14-23-26	Elev. 355.2
63.5	7-7-18	
68.5	17-28-18	
73.5	14-18-17	Gray, Dense to Medium Dense, Fine to Very Fine SAND, Wet, (SP) - rough drilling from 86.0 to 88.5 ft.
78.5	17-17-18	
83.5	9-14-14	
88.5	11-47-35	Elev. 325.2
93.5	9-10-15	
98.5	11-17-19	
103.5	20-20-18	Gray, Very Dense to Medium Dense, Fine to Coarse SAND, Wet, (SW), With Cobbles, Gravel - rough drilling from 106.0 to 108.0, 111.0 to 112.0, 113.0 to 113.5 and 114.0 to 116.0 ft.
108.5	24-36-39	
113.5	50-50/3"	Elev. 297.7
ROCK CORE		
DEPTH	REC%	RQD%
120	100	69
125	100	65
130	100	92
135	100	95
140	100	92
145	100	98
150	100	95
155	100	100
160	100	100
165	100	93

Brown to Gray, Loose to Medium Dense,
Fine SAND, Dry to Wet, (SP),
Trace Fine Gravel

Elev. 375.2

Gray, Soft to Firm, CLAY, Moist, (CH),
With Sand

Elev. 365.2

Gray, Soft, Sandy, Clayey SILT, Moist, (ML)

Elev. 355.2

Gray, Dense to Medium Dense, Fine to
Very Fine SAND, Wet, (SP)
- rough drilling from 86.0 to 88.5 ft.

Elev. 325.2

Gray, Very Dense to Medium Dense, Fine to
Coarse SAND, Wet, (SW), With Cobbles, Gravel
- rough drilling from 106.0 to 108.0, 111.0
to 112.0, 113.0 to 113.5 and 114.0 to 116.0 ft.

Elev. 297.7

DOLOMITE, gray to dark gray, hard, finely
crystalline, thin to medium bedded,
slightly weathered, slightly pitted
- dark gray, medium bedded below 125.0 ft.
- 0.12" gray, soft, shale seam at 118.1 ft.
- vertical fracture from 118.9 to 119.5 ft.
- multiple fractures from 123.1 to 123.3 ft.
- 1.0" void at 126.5 ft.
Elev. 287.0

LIMESTONE, gray to dark gray, hard, finely
crystalline, medium to very thick bedded,
slightly weathered
- thick bedded below 140.0 ft.
- dark gray to gray below 155.0 ft.
- thick to very thick bedded below 160.0 ft.
- calcite deposits at 136.1, 136.6 and 140.9 ft.
- dolomite from 138.2 to 140.8 ft.
- dolomite, pitted from 142.6 to 143.9 ft.
- gray, very soft, shale and clay seam from
163.1 to 163.5 ft.
- fractured from 131.2 to 131.4 ft.
- vertical fracture from 138.2 to 138.4 ft.
- chert nodules at 132.2 and 132.9 ft.
- 0.12" chert seam at 134.3 ft.
- cherty from 134.7 to 134.9, 135.0 to 138.2,
154.0 to 154.8, 159.3 to 159.6, 161.4 to 161.9 ft.
- 0.25" chert seam at 157.3 ft.
Elev. 248.7

Boring Number IL-2
Pier 15
Sta. 106+98.17, 44.54' Lt.

Note: For Typical Boring and General Notes, see Sheet No. 9.

Detailed JUL 2009
Checked JUL 2009

Boring No. EA-5
Anchor Pier 13
Sta. 102+54.85, 41.23' Rt.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 11 of 152

BORING DATA (3 OF 7)

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jjo11:ff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	
ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE	
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
HNTB 715 KIRK DRIVE KANSAS CITY, MO 64105 TELEPHONE (816) 472-1201 CERTIFICATE OF AUTHORITY NO. 001270	
CMT CRAWFORD, MURPHY & TILLY, INC. 2750 WEST WASHINGTON STREET SPRINGFIELD, IL 62702 TELEPHONE (217) 787-8050 ENGINEERING CORPORATION - 000631	

QU(TSF) STANDARD PENETRATION TEST
 P-Penet. DEPTH BLOWS/6"
 L-Labor. Elev. 415.3

3.5	3-3-3		
8.5	3-5-6		
0.25P	13.5	WOH-WOH-2	
1.0P	18.5	1-2-3	
	23		
1.25P	28.5	1-2-6	
	33.5	13-15-13	
	38.5	18-11-9	
	43.5	20-22-17	
	48.5	9-5-12	
	53.5	9-13-12	
	58.5	11-8-11	
	63.5	16-13-17	
	68.5	9-11-10	
	73.5	17-24-18	
	78.5	12-22-35	
	83.5	18-31-45	
	88.5	15-19-23	
	93.5	17-18-21	
	98.5	17-33-29	
	103.5	20-27-30	
	108.5	22-38-34	
ROCK CORE			
DEPTH	REC%	ROD%	
122	100	75	
236.4L	127	100	73
727.4L	132	100	91
	137	100	97
436.8L	142	95	90
600.5L	147	100	95
	152	100	100
	157	100	80
	162	100	100
	167	100	95
	172	100	93

Boring No. IL-3
 Pier 16
 Sta. 109+37.64, 41.96' Rt.

QU(TSF) STANDARD PENETRATION TEST
 P-Penet. DEPTH BLOWS/6"
 L-Labor. Elev. 414.5

3.5	4-4-4		
8.5	3-4-5		
0.5P	13.5	WOH-WOH-2	
0.5P	18		
0.5P	23.5	2-2-3	
	28.5	1-3-13	
	33.5	7-13-13	
	38.5	8-8-5	
	43.5	7-11-14	
	48.5	11-11-7	
	53.5	11-15-20	
	58.5	12-13-23	
	63.5	16-29-21	
	68.5	14-17-20	
	73.5	16-15-14	
	78.5	15-17-18	
	83.5	39-25-20	
	88.5	15-21-29	
	93.5	9-11-21	
	98.5	20-24-48	
	103.5	13-17-19	
	108.5	18-26-35	
	113.5	24-36-48	
	118.5	50/0"	
ROCK CORE			
DEPTH	REC%	ROD%	
120	100	100	
244.7L	125	100	77
603.4L	130	100	68
	135	100	75
544.8L	140	100	93
222.0L	145	93	85
	150	100	92
493.3L	155	100	85
	160	100	93
241.2L	165	100	100
	170	97	78

Boring No. IL-4
 Pier 16
 Sta. 109+57.80, 43.47' Lt.

QU(TSF) STANDARD PENETRATION TEST
 P-Penet. DEPTH BLOWS/6"
 L-Labor. Elev. 416.2

3.5	2-2-4		
8.5	3-4-5		
0.0P	13.5	WOR-WOH-WOH	
0.5P	18		
	23		
	28.5	8-8-13	
	33.5	8-12-9	
	38.5	9-13-8	
	43.5	5-5-7	
	48.5	10-8-5	
	53.5	7-9-9	
	58.5	5-4-4	
	63.5	9-16-17	
	68.5	16-25-50	
	73.5	11-12-17	
	78.5	8-13-12	
	83.5	8-11-12	
	88.5	10-11-15	
	93.5	11-15-21	
	98.5	21-26-25	
	103.5	30-50-50	
	108.5	15-17-19	
	113.5	35-33-50	
ROCK CORE			
DEPTH	REC%	ROD%	
123	100	0	
125	92	46	
532.8L	130	100	95
209.5L	135	100	77
	140	100	97
	145	100	100
1092.8L	150	100	87
329.9L	155	100	85
768.7L	160	100	100
	165	100	60
	170	100	100

Boring No. ILC-5
 Pier 17
 Sta. 112+44.08, 45.01' Lt.

Note: For Typical Boring and General Notes, see Sheet No. 9.

CONTRACT NO. 76D61

F.A. ROUTE SECTION
 999 82-1B-2

FED. AID PROJECT ILLINOIS
 COUNTY ST. CLAIR

USER NAME = jja11fff
 PLOT SCALE = #SCALE#
 PLOT DATE = 4/14/2010

DESIGNED - HNTB
 CHECKED - CMT
 DRAWN - CMT / HNTB
 REVISED -
 REVISED -
 REVISED -
 REVISED -

ILLINOIS APPROACH STRUCTURE
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 MISSOURI HIGHWAYS
 AND TRANSPORTATION COMMISSION

HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY
 NO. 001270

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631

Detailed JUL 2009
 Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 12 of 152

BORING DATA (4 OF 7)

QU(TSF) STANDARD PENETRATION TEST
 P-Penet. DEPTH BLOWS/6"
 L-Labor. Elev. 416.7

Cuttings: Brown to Dark Gray, Fine to Coarse SAND, (SW)
 (Note: The stratigraphy described on this boring log is based on the drill cuttings observed at the ground surface and the action of the drilling tools and is only approximate)
 Elev. 411.7

Brown, Loose, Fine to Medium SAND, (SP)
 Elev. 397.7

- smooth drilling

- very rough drilling from 92.5 to 94.5 ft.
 - slightly rough drilling from 99.0 to 101.0 ft.

- very rough drilling from 114.0 to 121.3 ft.

ROCK CORE		
DEPTH	REC%	RQD%
125.3	83	42
130.3	100	100
135.3	100	93
140.3	100	100
145.3	100	100
150.3	100	90

Boring No. ILC-5B
 Pier 17
 Sta. 112+34.70, 47.50' Lt.

QU(TSF) STANDARD PENETRATION TEST
 P-Penet. DEPTH BLOWS/6"
 L-Labor. Elev. 417.2

Topsoil (3.0")
 Elev. 417.0

Dark Gray, Loose, Cinders, Moist, (FILL),
 Some Lean Clay, Few Crushed Limestone
 Elev. 414.2

Brown to Gray, Medium Dense to Loose,
 Medium to Fine SAND, Moist, (SP)
 Elev. 403.4

Gray, Firm, Fat CLAY, Moist, (CH)
 Elev. 401.2

Gray, Stiff, Sandy Lean CLAY, Moist, (CL)
 Elev. 398.7

Gray, Medium Dense to Loose,
 Fine SAND, Wet, (SP)
 Elev. 375.2

Gray, Dense to Very Dense, Medium,
 Occasionally Coarse SAND, Wet, (SP),
 Few to Little Fine Gravel
 Trace Limestone Pieces at Depth

ROCK CORE

DEPTH	REC%	RQD%
124.5	100	0
129.5	93	62
134.5	100	95
139.5	95	75
144.5	0	0
149.5	77	57
152.7	100	95
154.5	100	67
159	100	100
164	100	88
169	100	93
174	100	100

Gray, Hard, SHALE, Moist, Trace Fine Gravel
 Elev. 293.2

LIMESTONE, gray, moderately hard, finely
 to medium crystalline, medium to thick
 bedded, weathered to slightly weathered
 - 4" void at 126.7 ft.
 - medium crystalline below 129.5 ft.
 - vuggy from 134.5 to 139.1 ft.
 - slightly weathered, dense below 145.8 ft.
 - finely crystalline below 149.5 ft.
 - thick bedded below 154.5 ft.
 - thick bedded, medium crystalline below
 169.0 ft.
 - calcite deposit from 157.2 to 158.0 ft.
 - shaley below 173.2 ft.
 - 0.12" gray, soft, shale seam at 127.9
 and 128.9 ft.
 - 1.0" gray, soft, shale seam at 129.4 ft.
 - cherty below 173.2 ft.
 - chert nodules at 151.3, 151.4, 151.5, 151.8,
 152.0, 153.1, 153.5, 153.8, 154.0, 154.4,
 154.7, 154.8, 155.7, 156.2, 156.5 and 162.1 ft.

Elev. 243.2

Boring No. IL-6
 Pier 18
 Sta. 113+78.36, 54.65' Rt.

QU(TSF) STANDARD PENETRATION TEST
 P-Penet. DEPTH BLOWS/6"
 L-Labor. Elev. 424.7

Brown, Soft, Lean CLAY, Moist, (FILL),
 Little Gravel and Cinders
 Elev. 417.7

Brown, Loose, Coarse SAND, Moist
 to Wet, (SP), Trace Fine Gravel
 Elev. 406.7

Gray, Loose, Fine SAND, Wet, (SP),
 Few Silt, Trace Gravel
 Elev. 402.7

Gray, Firm, Fat CLAY, Moist, (CH)
 Elev. 398.7

Gray, Loose to Medium Dense, Fine SAND,
 Wet, (SP), Trace Silt
 Elev. 366.7

Gray to Brown, Medium to Very Dense,
 Fine to Medium SAND, Wet, (SP), Trace to
 Little Fine Gravel, Trace Wood Pieces,
 Trace Limestone Pieces
 Elev. 306.7

Brown, Medium to Very Dense, Coarse
 SAND, Wet, (SP), Little to Some Medium
 Gravel, Trace Limestone Pieces
 Elev. 300.7

Brown GRAVEL and SAND With Limestone Layers
 Elev. 296.2

LIMESTONE, gray to brown, moderately hard,
 medium to very finely crystalline, thin to thick
 bedded, slightly weathered
 - slightly weathered, medium bedded below 133.2 ft.
 - finely crystalline, medium to thick bedded below
 138.1 ft.
 - very finely crystalline below 143.2 ft.
 - finely crystalline below 148.3 ft.
 - fine to medium crystalline, thick bedded below
 158.3 ft.
 - gray to brown below 168.3 ft.
 - finely crystalline, medium to thick bedded
 below 173.4 ft.
 - multiple vertical fractures from 129.4 to 130.9 ft
 - 1.0" brown, medium hard, shale seam at 129.0 ft.
 - 1.25" gray, soft, clay seam at 131.4 ft.
 - 0.25" gray, soft, shale seam at 139.4 ft.
 - 0.5" gray, soft, clay seam at 139.9 ft.
 - shaley from 141.5 to 143.2 ft.
 - 0.5" gray, soft, shale seam at 154.8 ft.
 - 3.5" gray, soft, shale seam at 156.6 ft.
 - cherty from 158.3 to 165.0 ft.
 - chert nodules at 163.5, 163.7, 163.8, 163.9,
 164.8, 165.0, 169.3, 169.5, 171.1, and 171.2
 - 2.5" chert seam at 164.3 ft.
 Elev. 246.1

ROCK CORE

DEPTH	REC%	RQD%
133.2	100	57
138.1	100	83
143.2	100	93
148.3	100	79
153.3	100	90
158.3	96	90
163.5	100	95
168.3	100	98
173.4	100	94
178.6	100	63

Boring No. IL-7
 Pier 19
 Sta. 116+58.68, 48.13' Lt.

CONTRACT NO. 76D61

F.A. ROUTE SECTION
 999 82-1B-2

FED. AID PROJECT ILLINOIS
 COUNTY ST. CLAIR

USER NAME = JJJLiff
 PLOT SCALE = #SCALE#
 PLOT DATE = 4/14/2010
 DESIGNED - HNTB
 CHECKED - CMT
 DRAWN - CMT / HNTB

REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -
 ILLINOIS APPROACH STRUCTURE
 FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 MISSOURI HIGHWAYS
 AND TRANSPORTATION COMMISSION

HNTB
 715 KIRK DRIVE
 KANSAS CITY, MO 64105
 TELEPHONE (816) 472-1201
 CERTIFICATE OF AUTHORITY
 NO. 001270

CMT
 CRAWFORD, MURPHY & TILLY, INC.
 2750 WEST WASHINGTON STREET
 SPRINGFIELD, IL 62702
 TELEPHONE (217) 787-8050
 ENGINEERING CORPORATION - 000631

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jjo11fff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	

ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY NO. 001270

CMT
CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

QU(TSF)	STANDARD			
P-Penet.	PENETRATION TEST			
L-Labor.	DEPTH	BLOWS/6"		Elev.
	3	2-3-5		Elev. 412.1
	8	1-2-4		Elev. 410.1
1.25P	13	2-5-6		Elev. 403.8
	18	1-3-4		Elev. 402.9
	23	4-6-6		Elev. 395.1
	28	6-8-11		Elev. 390.1
	33	10-11-13		Elev. 374.1
	38	6-6-6		Elev. 374.1
	43	14-19-21		Elev. 369.1
	48	10-12-14		Elev. 345.1
	53	10-11-9		Elev. 338.5
	58	5-10-11		Elev. 333.9
	63	13-17-12		Elev. 338.5
	68	17-33-24		Elev. 333.9
	73	8-5-5		Elev. 314.1
	78	10-10-11		Elev. 298.1
	83	28-20-17		Elev. 297.4
	88	18-19-19		Elev. 297.4
	93	13-19-21		Elev. 297.4
	98	42-50/2"		Elev. 297.4
	103	15-42-33		Elev. 297.4
	108	25-37-21		Elev. 297.4
	113	38-65		Elev. 297.4
	114.5	100	0	Elev. 297.4
	119	100	89	Elev. 297.4
	124	100	92	Elev. 297.4
612.8L	129	100	88	Elev. 297.4
579.7L	134	100	95	Elev. 297.4
555.6L	139	100	100	Elev. 297.4
252.1L	144	100	90	Elev. 297.4
283.3L	149	100	97	Elev. 297.4
	154	100	92	Elev. 297.4
630.5L	159	100	83	Elev. 297.4
	164	100	100	Elev. 297.4

**Boring Number IL-10
Pier 22**
Sta. 125+58.98, 42.42' Rt.

Note: For Typical Boring and General Notes, see Sheet No. 9.

QU(TSF)	STANDARD			
P-Penet.	PENETRATION TEST			
L-Labor.	DEPTH	BLOWS/6"		Elev.
				Elev. 421.2
				Elev. 414.7
				Elev. 413.7
				Elev. 404.7
				Elev. 399.7
				Elev. 396.2
				Elev. 386.2
				Elev. 386.2
				Elev. 379.7
				Elev. 374.7
				Elev. 359.7
				Elev. 354.7
				Elev. 349.7
				Elev. 344.7
				Elev. 329.7
				Elev. 316.7
				Elev. 295.2
				Elev. 294.9
				Elev. 264.7

**Boring Number ILC-8A
Pier 20**
Sta. 119+19.20, 55.60' Rt.

QU(TSF)	STANDARD			
P-Penet.	PENETRATION TEST			
L-Labor.	DEPTH	BLOWS/6"		Elev.
				Elev. 421.2
				Elev. 414.7
				Elev. 404.7
0.5P				Elev. 399.7
0.5P				Elev. 394.7
				Elev. 389.7
				Elev. 386.4
				Elev. 384.7
				Elev. 379.7
				Elev. 374.7
				Elev. 359.7
				Elev. 354.7
				Elev. 349.7
				Elev. 344.7
				Elev. 329.7
				Elev. 316.7
				Elev. 295.2
				Elev. 294.9
				Elev. 264.7

**Boring Number ILC-8
Pier 20**
Sta. 119+22.87, 45.27' Rt.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 14 of 152

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR

USER NAME = Jjolliff
PLOT SCALE = *SCALE*
PLOT DATE = 4/14/2010
DESIGNED - HNTB
CHECKED - CMT
DRAWN - CMT / HNTB
REVISED -
REVISED -
REVISED -
REVISED -

ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY NO. 001270

CMT
CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

QU(TSF) P-Penet. L-Labor.	STANDARD PENETRATION TEST			Elev. 405.3
	DEPTH	BLOWS/6"		
1.0P	3.5	2-3-2	Dark Gray, Silt, Moist (FILL), Little Roots, Grass, Gravel Elev. 404.8	
1.0P	5.5			
0.75P	8.5	1-2-3	Dark Gray, Lean Clay, Moist (FILL), Little Roots Elev. 401.8	
	10.5			
	13.5	3-5-4	Gray to Brown to Dark Gray, Firm, Lean CLAY, Moist, (CL) Elev. 393.8	
0.25P	18.5	2-2-6		
	23.5	6-12-13	Dark Gray, Loose, Fine SAND, Wet, (SP) Elev. 386.8	
	28.5	9-13-12		
	33.5	5-7-9	Dark Gray, Loose, SILT, Wet, (ML), Little Fine Sand Elev. 381.8	
	38.5	10-4-3		
	43.5	10-14-16	Dark Gray, Medium Dense, Fine SAND, Wet, (SP) Few to Trace Fine Gravel	
	48.5	12-15-15		
	53.5	11-13-15	Elev. 349.3	
	58.5	14-25-24		
	63.5	11-16-19	Dark Gray, Dense to Medium Dense, Fine to Medium SAND, Wet, (SP), Trace to Little Fine Gravel	
	68.5	9-12-16		
	73.5	16-14-19	Elev. 326.8	
	78.5	1-1-6		
	83.5	19-24-24	Dark Gray, Loose to Very Dense, Fine to Coarse SAND, Wet, (SW), Little Fine to Coarse Gravel	
	88.5	19-30-35		
	93.5	35-50-64	Elev. 306.8	
	98.5	28-29-23		
	103.5	50/5"	Dark Gray, Very Dense, Fine to Coarse GRAVEL, Wet, (GW), Little Fine to Coarse Sand, Trace Limestone Pieces	
	108.5	42-66-50/0"		
	ROCK CORE		Elev. 295.3	
	DEPTH	REC% ROD%		
900.5L	115	100	83	
	120	100	92	
398.7L	125	100	97	
	130	100	95	
387.3L	135	100	100	
	140	100	90	
229.0L	145	100	88	
	150	100	93	
455.8L	155	100	98	
	160	100	93	

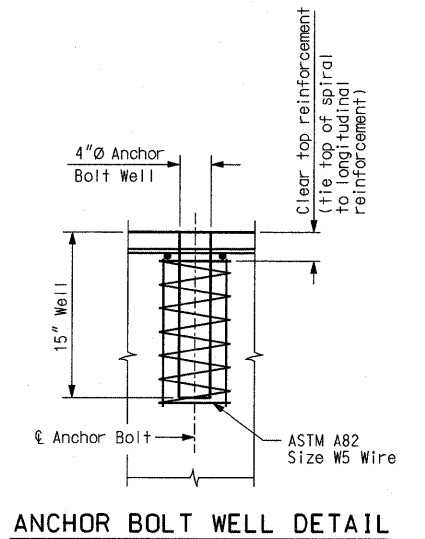
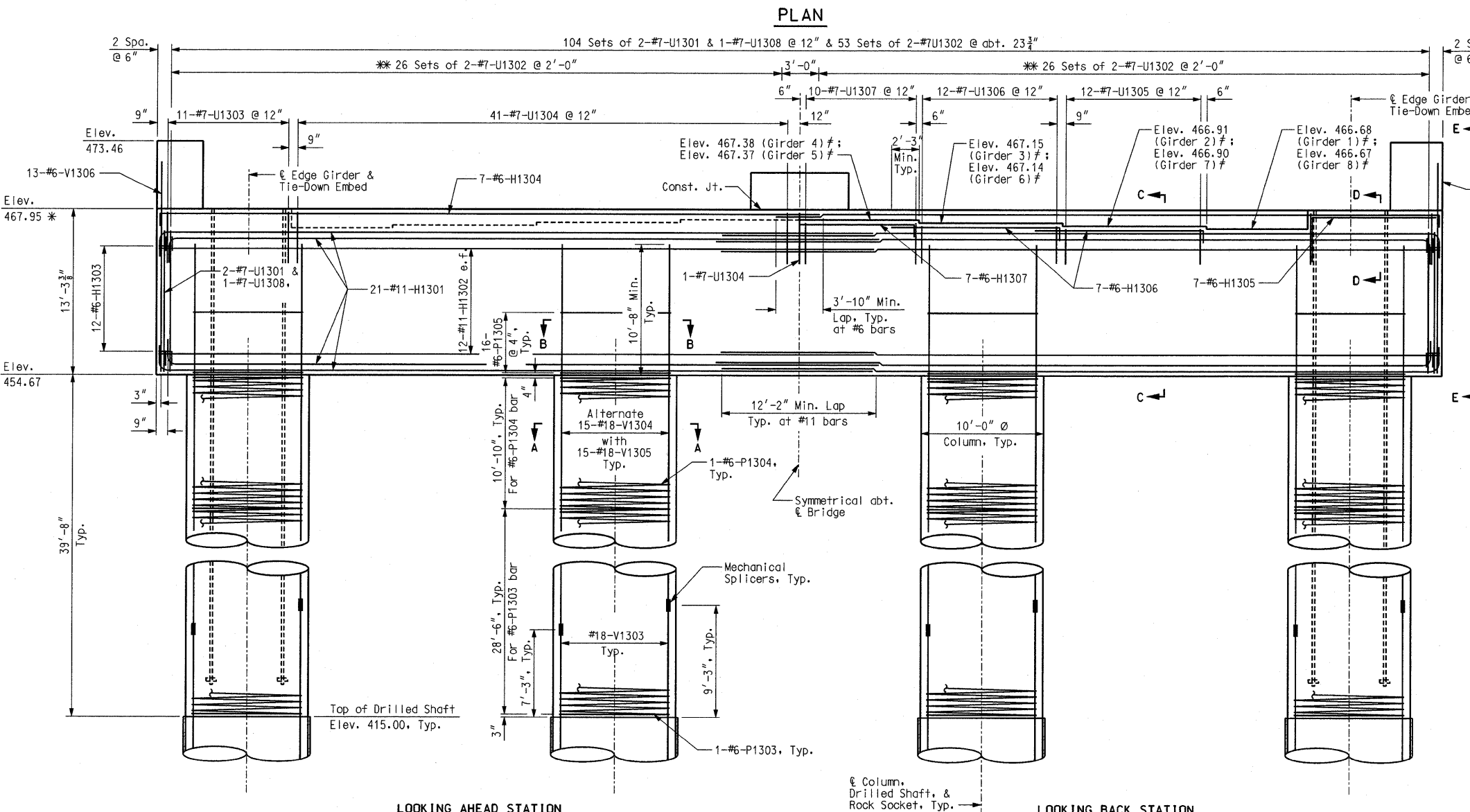
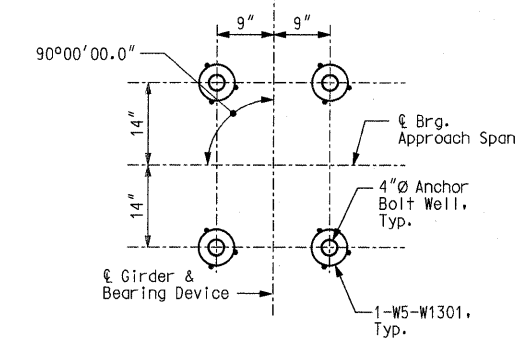
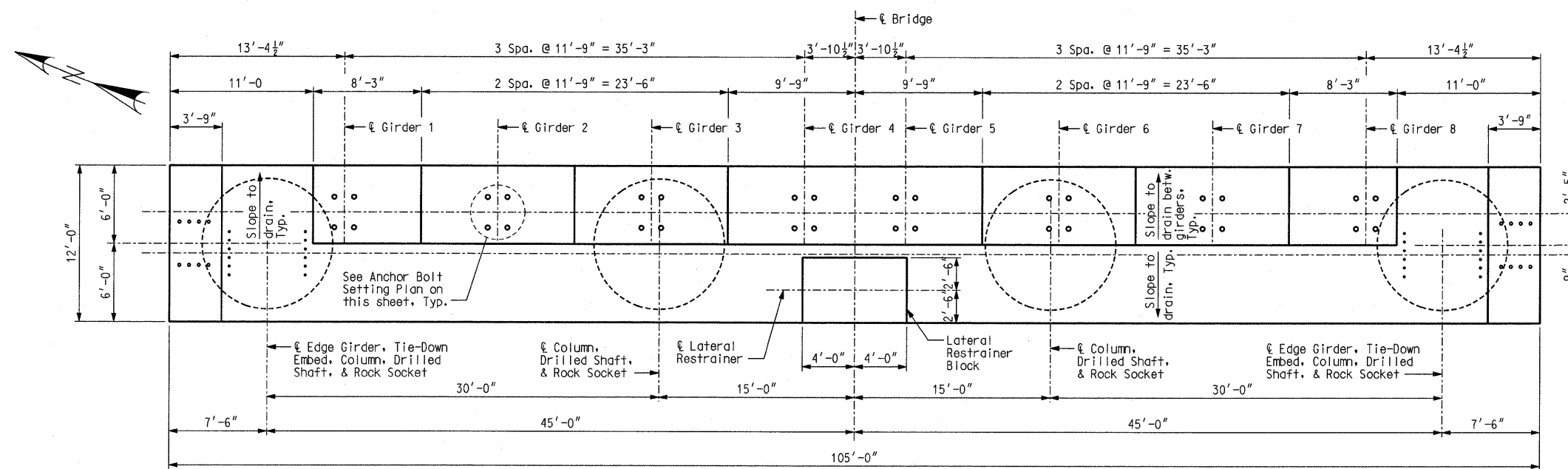
Boring Number ILC-11
Pier 23
Sta. 127+81.70, 44.86' Lt.

QU(TSF) P-Penet. L-Labor.	STANDARD PENETRATION TEST			Elev. 405.6
	DEPTH	BLOWS/6"		
				(Note: The stratigraphy described on this boring log is based on the drill cuttings observed at the ground surface and the action of the drilling tools and is only approximate.)
				Grayish-brown SAND, some clay and silt layers
				- rough drilling occurring intermittently from 82.0 to 100.0 ft.
				- very rough drilling from 100.0 to 110.0 ft., probable boulders.
	ROCK CORE		Elev. 295.6	
	DEPTH	REC% ROD%		
	115	100	82	LIMESTONE, gray, hard, finely crystalline, medium to thick bedded, slightly weathered - thick bedded below 116.8 ft. - medium bedded below 133.2 ft. - pitted from 127.1 to 128.5 ft. - highly fractured from 116.0 to 116.8 and 130.0 to 131.5 ft. - 0.12" gray, soft, shale seam at 118.3, 118.4, 127.4, 128.5, 128.7, 131.9, 132.3 and 135.9 ft. - 1.0" gray, soft, shale seam at 121.7 ft. - 1.2" gray, soft, shale seam at 124.1 ft. - 2.0" chert seam at 110.5 ft. - 1.0" chert seam at 111.0 ft. - 4.0" chert seam at 111.5 ft. - 0.5" chert seam at 114.5 ft.
	120	100	70	
	125	100	77	
	130	100	80	
	135	100	83	
	140	100	73	
				Elev. 268.0
				DOLOMITE, gray, hard, finely crystalline, medium bedded, slightly weathered - highly fractured from 138.2 to 140.0 ft. - 1.0" gray, soft, shale seam at 138.6 ft. - 0.12" gray, soft, shale seam at 138.8 ft.
				Elev. 265.6

Boring Number ILC-11A
Pier 23
Sta. 127+75.10', 44.00' Lt.

Note: For Typical Boring and General Notes, see Sheet No. 9.

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT ILLINOIS	
COUNTY	ST. CLAIR
USER NAME = jcolliff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	



Notes:

- All reinforcing bars in the top of the capbeam shall be spaced to clear anchor bolt wells for bearings by at least 1/2".
- Seal top and both faces of capbeam with Protective Coating.
- * Elevation taken at @ Pier.
- # Elevation taken at @ Brg. Approach Span.
- ** Space to clear column reinforcing and anchor bolt wells.

Detailed JUL 2009
Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 16 of 152

PIER 13 (FOR INFORMATION ONLY)

ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
MISSOURI HIGHWAYS
AND TRANSPORTATION COMMISSION

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY NO. 001270

CMT
CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jjo11iff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
DESIGNED - HNTB	
CHECKED - CMT	
DRAWN - CMT / HNTB	
REVISED -	
REVISED -	
REVISED -	
REVISED -	

ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE

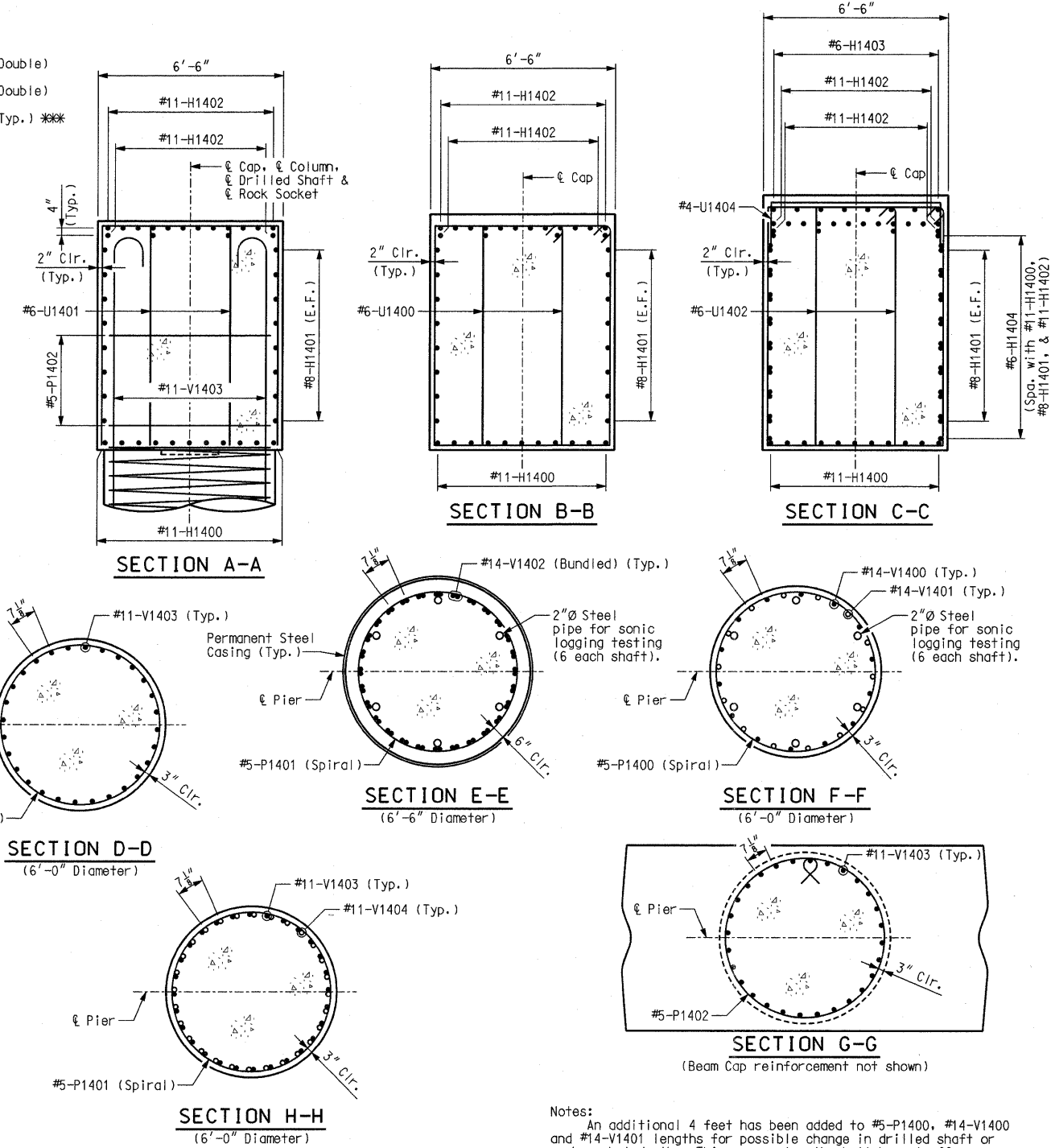
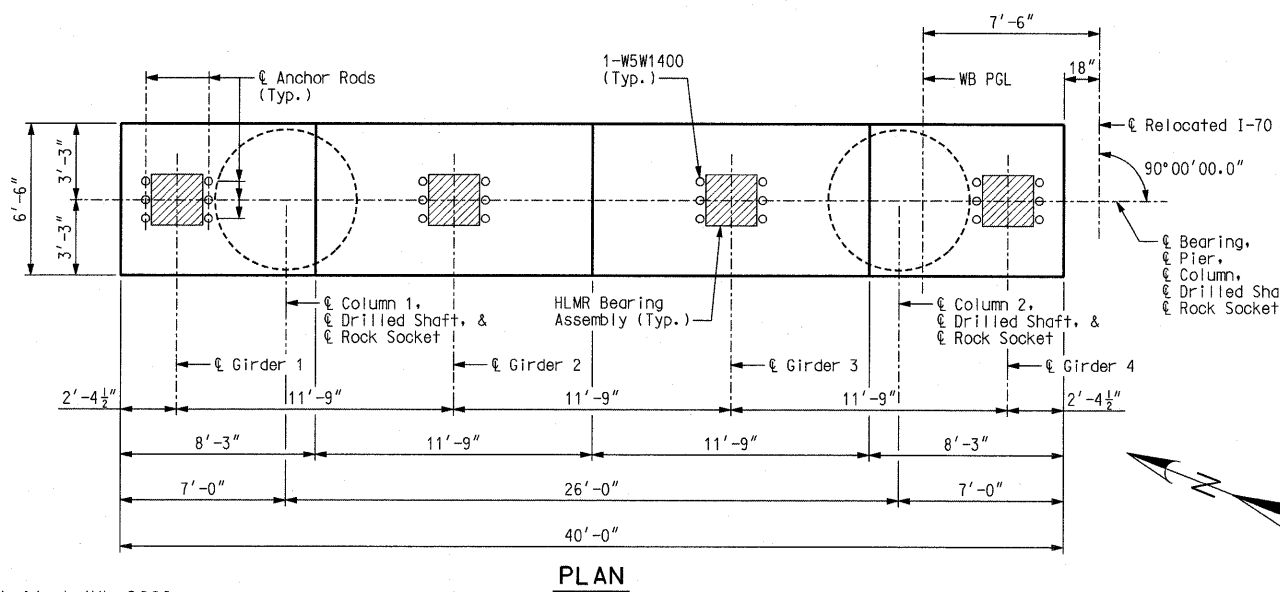
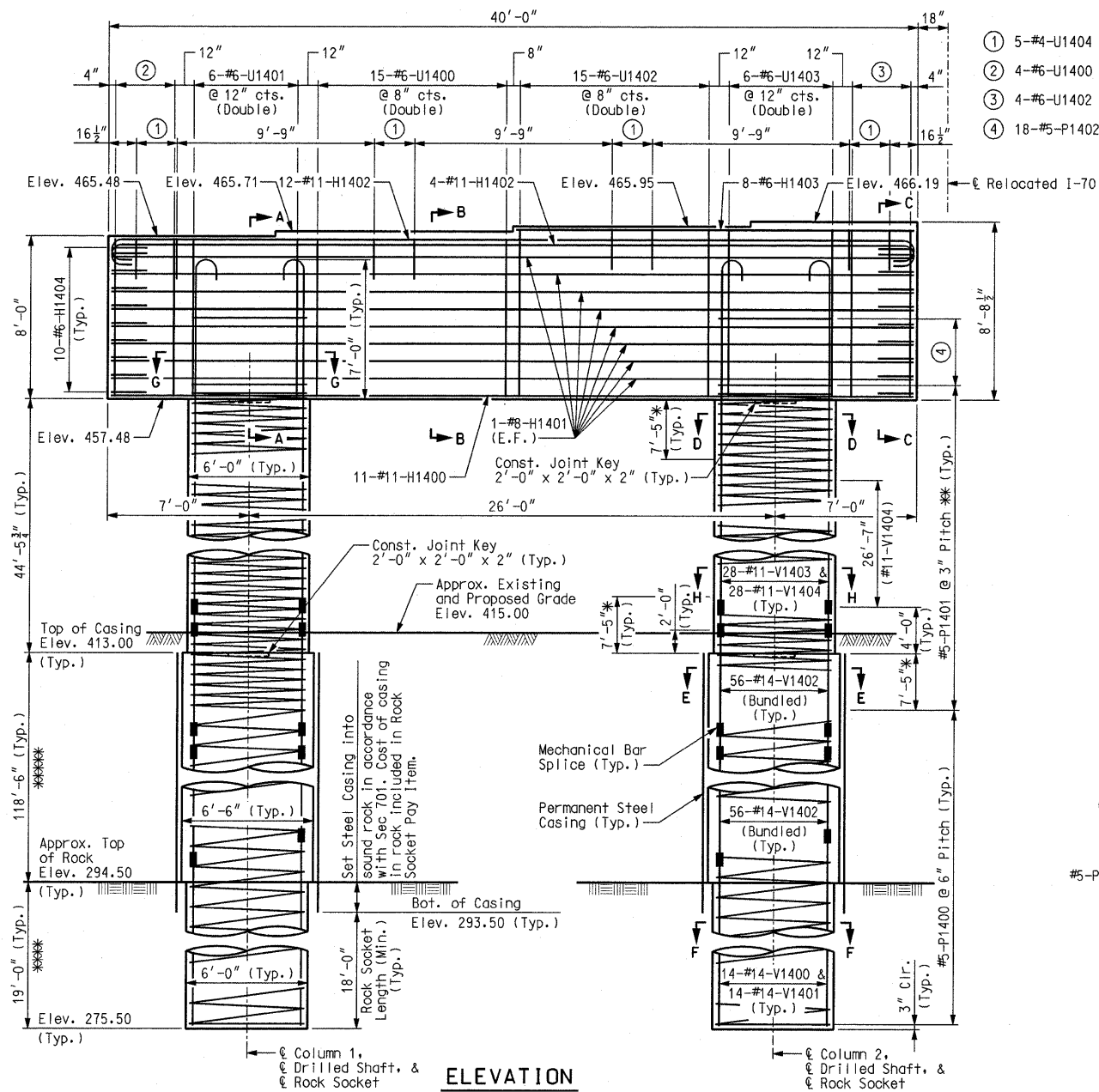
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

HNTB
715 KIRK DRIVE
KANSAS CITY, MO 64105
TELEPHONE (816) 472-1201
CERTIFICATE OF AUTHORITY NO. 001270

CMT
CRAWFORD, MURPHY & TILLY, INC.
2750 WEST WASHINGTON STREET
SPRINGFIELD, IL 62702
TELEPHONE (217) 787-8050
ENGINEERING CORPORATION - 000631

- ① 5-#4-U1404 @ 6" cts.
- ② 4-#6-U1400 @ 12" cts. (Double)
- ③ 4-#6-U1402 @ 12" cts. (Double)
- ④ 18-#5-P1402 @ 3" cts. (Typ.) ***



SUBSTRUCTURE QUANTITY TABLE FOR PIER 14 WB

Item	Quantity
Drilled Shafts (6 ft. 6 in. Dia.)	237.0
Rock Sockets (6 ft. 0 in. Dia.)	38.0
Supplementary Television Camera Inspection	1
Foundation Inspection Holes	58.0
Sonic Logging Testing	2
Class B Concrete (Substructure)	173.6
Reinforcing Steel (Bridges)	161,940
Mechanical Bar Splice	280

Note: These quantities are included in the estimated quantities table on Sheet No. 7.
Sheet No. 17 of 152

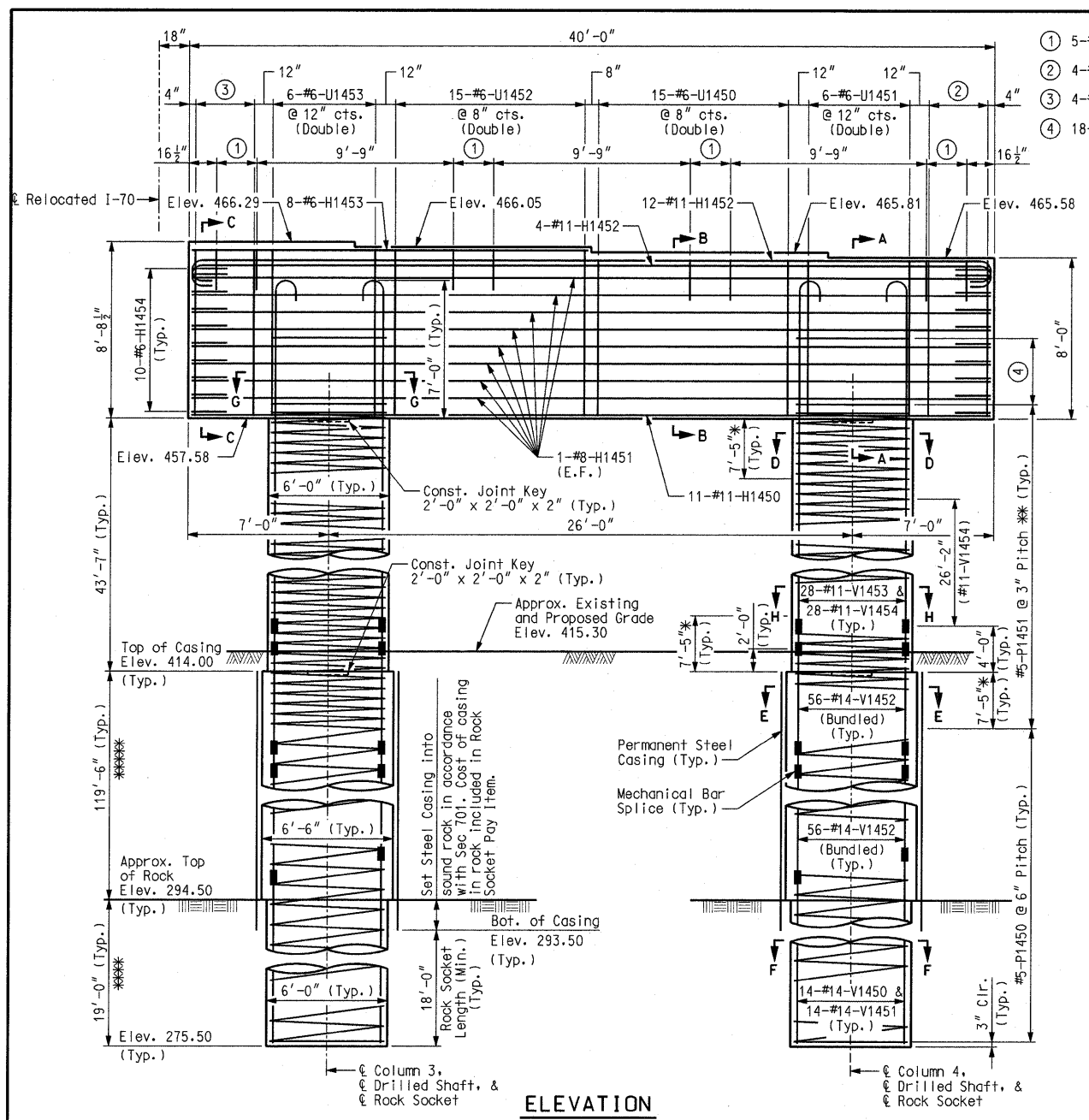
Notes:
An additional 4 feet has been added to #5-P1400, #14-V1400 and #14-V1401 lengths for possible change in drilled shaft or rock socket depth. This excess length shall be cut off or included in the reinforcement lap if not required.
Sonic logging testing shall be performed on all drilled shafts and rock sockets.
All reinforcing bars in the tops of substructure beams or caps shall be spaced to clear anchor rod wells for bearings by at least 1/2".
The hooks of V-Bars embedded in the beam cap shall be oriented inward. Bending the hook outward, away from the column core, is not allowed.
The thickness of steel casing shall meet all the requirements of Sec 701 with minimum thickness being 3/8 inch. Thicker casing may be required for installation.
For details of HLMR Bearing Assembly, see Sheet No. 43. For Anchor Rod Well Details and Anchor Rod Setting Plan, see Sheet No. 44.
For details of seismic stirrup bars, see Sheet No. 7.
Lapping of spiral reinforcement in this region not permitted.
*** Continue spiral bars to the bottom of the beam cap stirrup reinforcing bar.
*** Splice locations shall be staggered.
Anchorage of spiral reinforcement shall be provided by 1-1/2 extra turns of spiral bar at each end of spiral unit.
**** Pay Items Rock Socket (6 ft. 0 in. Dia.).
***** Pay Items Drilled Shaft (6 ft. 6 in. Dia.).

PIER 14 WB

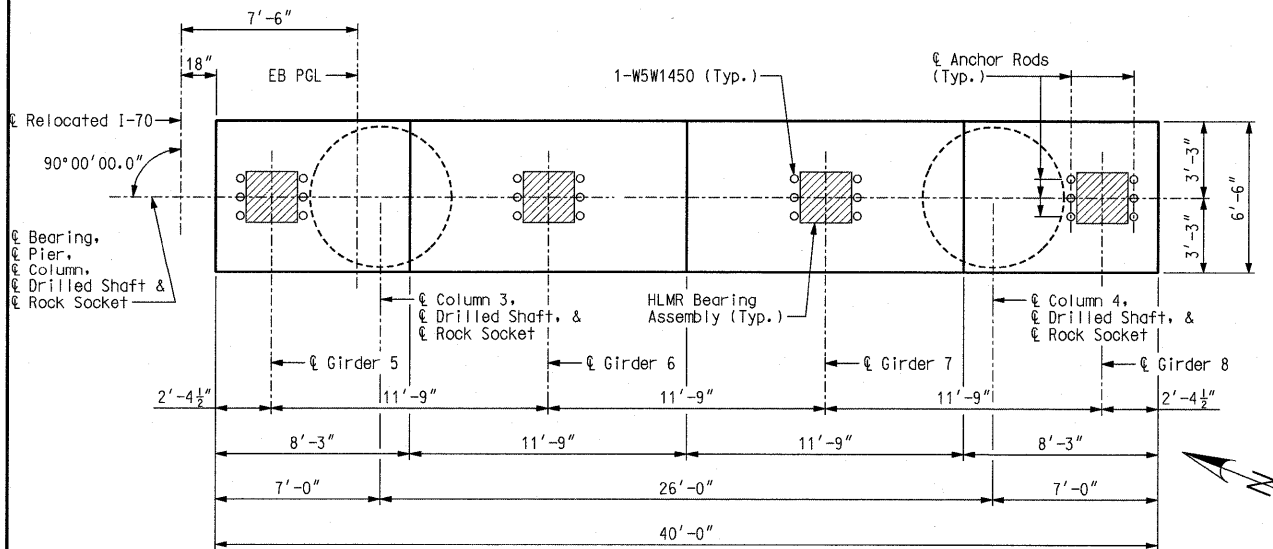
Detailed JUL 2009
Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.

- ① 5-#4-U1454 @ 6" cts.
- ② 4-#6-U1450 @ 12" cts. (Double)
- ③ 4-#6-U1452 @ 12" cts. (Double)
- ④ 18-#5-P1452 @ 3" cts. (Typ.) ***

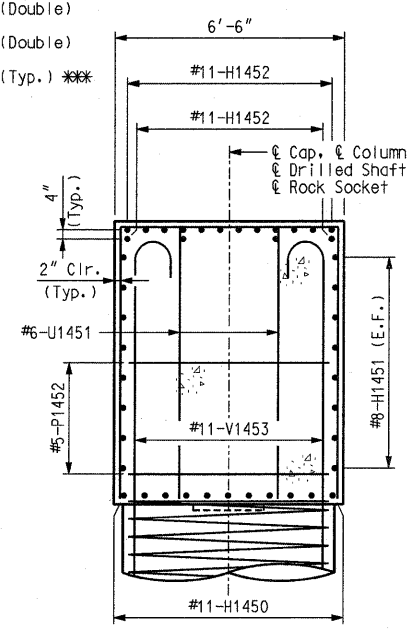


ELEVATION

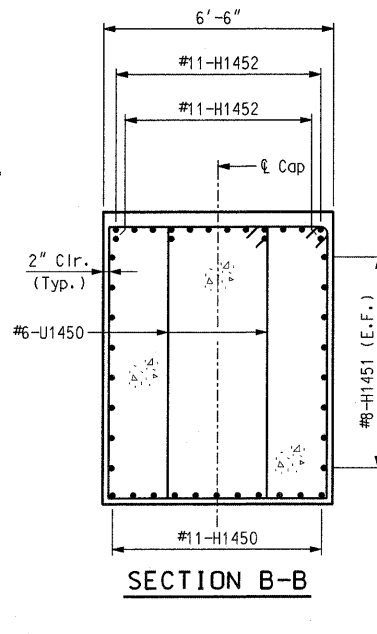


PLAN

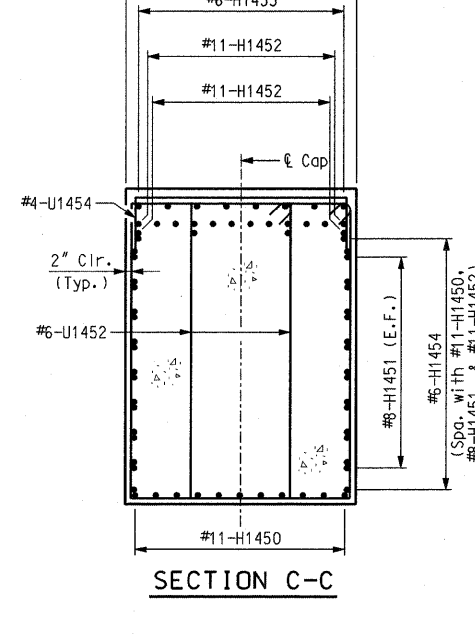
Note: This drawing is not to scale. Follow dimensions.



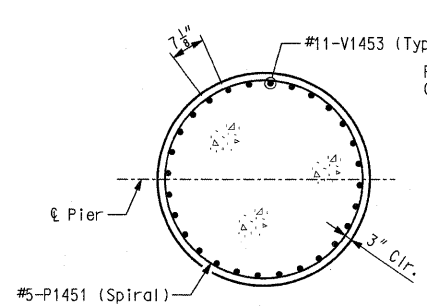
SECTION A-A



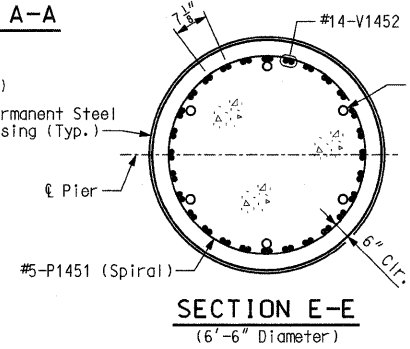
SECTION B-B



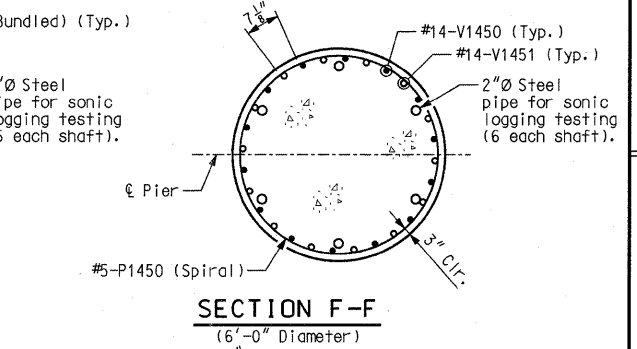
SECTION C-C



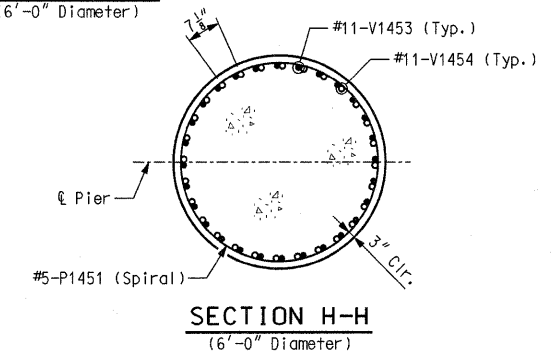
SECTION D-D
(6'-0" Diameter)



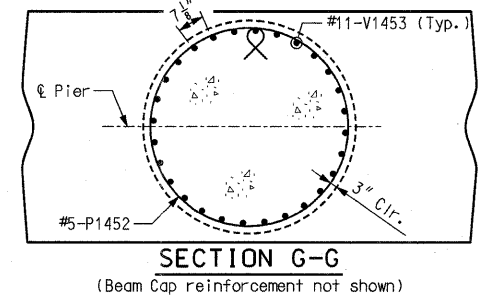
SECTION E-E
(6'-6" Diameter)



SECTION F-F
(6'-0" Diameter)



SECTION H-H
(6'-0" Diameter)



SECTION G-G
(Beam Cap reinforcement not shown)

SUBSTRUCTURE QUANTITY TABLE FOR PIER 14 EB		
Item	Quantity	
Drilled Shafts (6 ft. 6 in. Dia.)	linear foot	239.0
Rock Sockets (6 ft. 0 in. Dia.)	linear foot	38.0
Supplementary Television Camera Inspection	each	1
Foundation Inspection Holes	linear foot	58.0
Sonic Logging Testing	each	2
Class B Concrete (Substructure)	cu. yard	171.8
Reinforcing Steel (Bridges)	pound	161,910
Mechanical Bar Splice	each	280

Note: These quantities are included in the estimated quantities table on Sheet No. 7.
Sheet No. 18 of 152

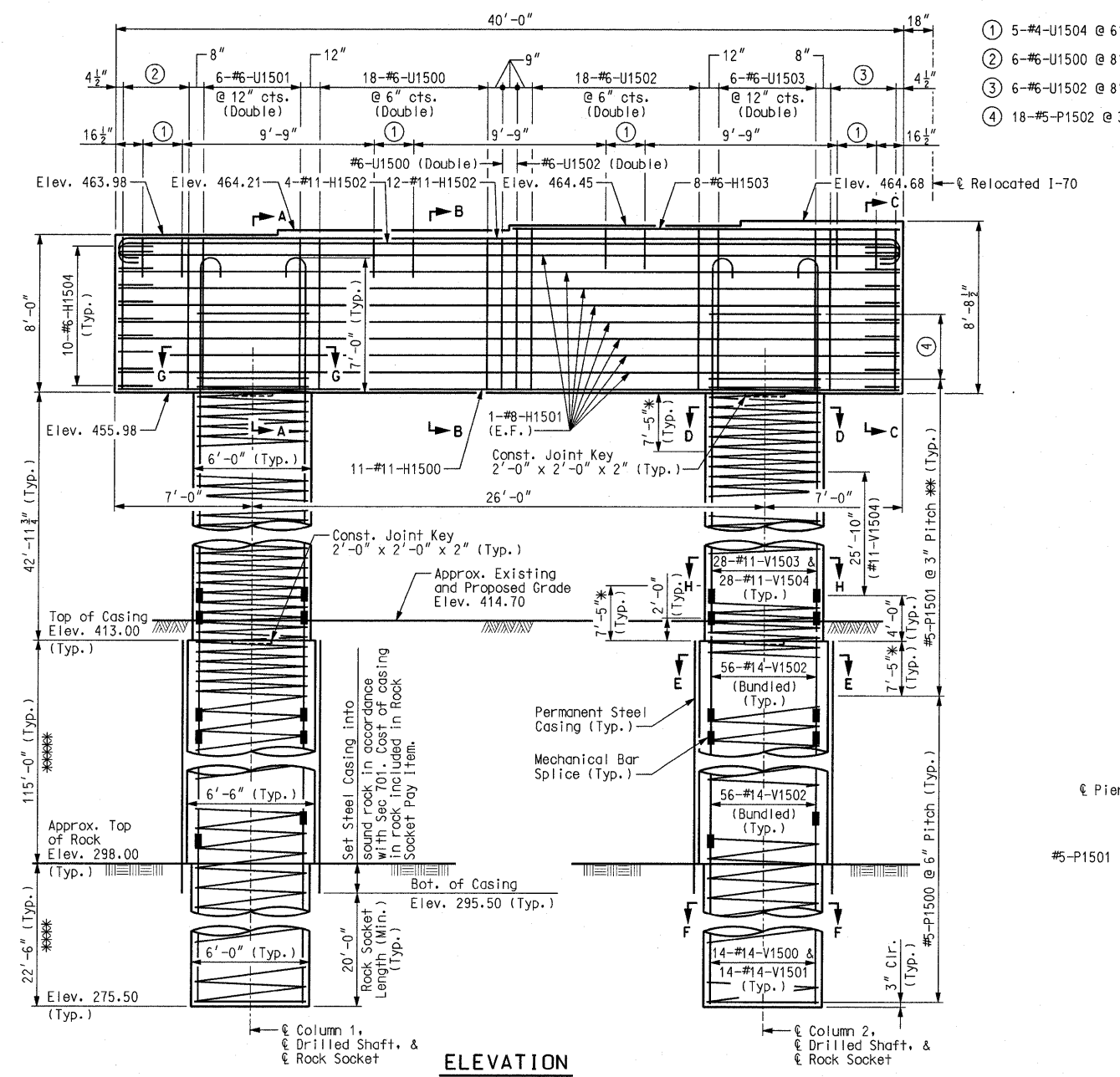
Notes:
 An additional 4 feet has been added to #5-P1450, #14-V1450 and #14-V1451 lengths for possible change in drilled shaft or rock socket depth. This excess length shall be cut off or included in the reinforcement lap if not required.
 Sonic logging testing shall be performed on all drilled shafts and rock sockets.
 All reinforcing bars in the tops of substructure beams or caps shall be spaced to clear anchor rod wells for bearings by at least 1/2".
 The hooks of V-Bars embedded in the beam cap shall be oriented inward. Bending the hook outward, away from the column core, is not allowed.
 The thickness of steel casing shall meet all the requirements of Sec 701 with minimum thickness being 3/8 inch. Thicker casing may be required for installation.
 For details of HLMR Bearing Assembly, see Sheet No. 43.
 For Anchor Rod Well Details and Anchor Rod Setting Plan, see Sheet No. 45.
 For details of seismic stirrup bars, see Sheet No. 7.
 * Lapping of spiral reinforcement in this region not permitted.
 ** Continue spiral bars to the bottom of the beam cap stirrup reinforcing bar.
 *** Splice locations shall be staggered.
 Anchorage of spiral reinforcement shall be provided by 1-1/2 extra turns of spiral bar at each end of spiral unit.
 **** Pay Items Rock Socket (6 ft. 0 in. Dia.).
 ***** Pay Items Drilled Shaft (6 ft. 6 in. Dia.).

PIER 14 EB

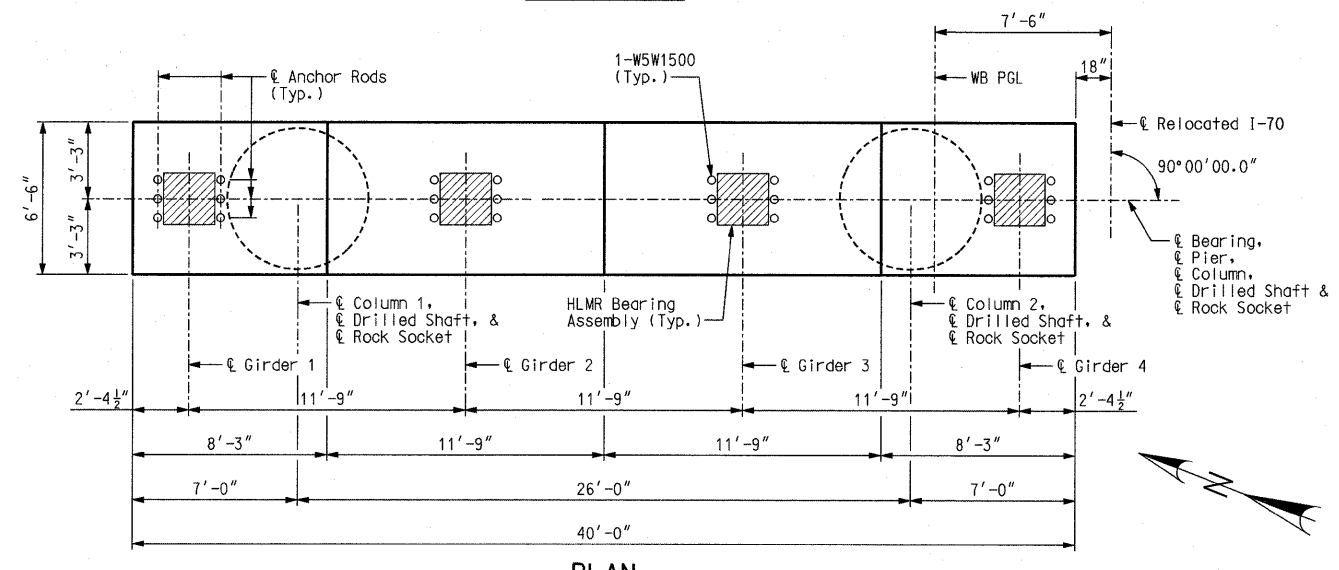
Detailed JUL 2009
Checked JUL 2009

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jcolliff	
PLOT SCALE = *SCALE*	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	
ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE	
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 HNTB 715 KIRK DRIVE KANSAS CITY, MO 64105 TELEPHONE (816) 472-1201 CERTIFICATE OF AUTHORITY NO. 001270	
 CMT CRAWFORD, MURPHY & TILLY, INC. 2750 WEST WASHINGTON STREET SPRINGFIELD, IL 62702 TELEPHONE (217) 787-8050 ENGINEERING CORPORATION - 000631	

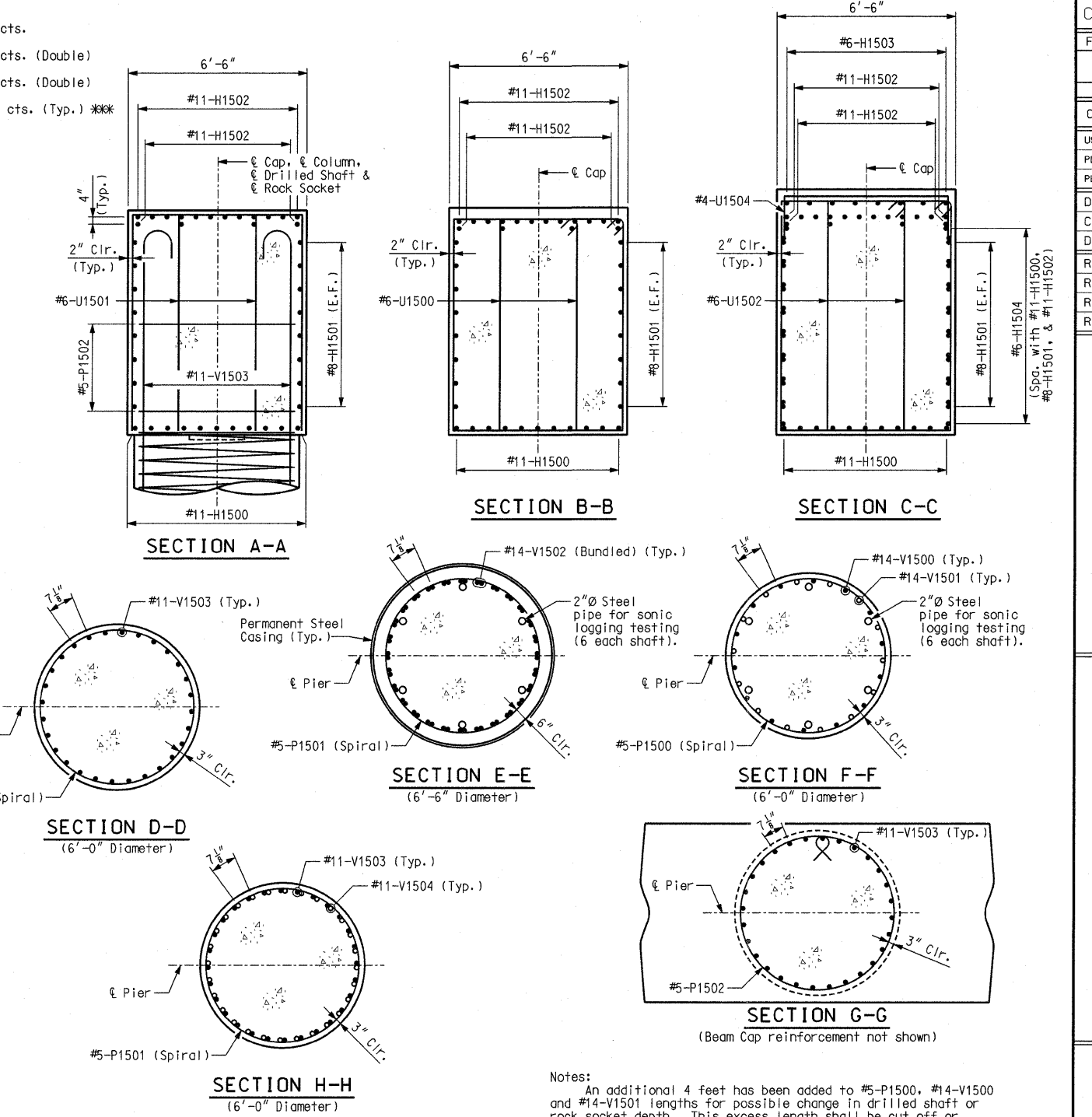
- ① 5-#4-U1504 @ 6" cts.
- ② 6-#6-U1500 @ 8" cts. (Double)
- ③ 6-#6-U1502 @ 8" cts. (Double)
- ④ 18-#5-P1502 @ 3" cts. (Typ.) ***



ELEVATION



PLAN



SUBSTRUCTURE QUANTITY TABLE FOR PIER 15 WB		
Item	Quantity	
Drilled Shafts (6 ft. 6 in. Dia.)	230.0	linear foot
Rock Sockets (6 ft. 0 in. Dia.)	45.0	linear foot
Supplementary Television Camera Inspection	1	each
Foundation Inspection Holes	65.0	linear foot
Sonic Logging Testing	2	each
Class B Concrete (Substructure)	170.4	cu. yard
Reinforcing Steel (Bridges)	161,940	pound
Mechanical Bar Splice	280	each

Note: These quantities are included in the estimated quantities table on Sheet No. 7.
 Sheet No. 19 of 152

Notes:
 An additional 4 feet has been added to #5-P1500, #14-V1500 and #14-V1501 lengths for possible change in drilled shaft or rock socket depth. This excess length shall be cut off or included in the reinforcement lap if not required.
 Sonic logging testing shall be performed on all drilled shafts and rock sockets.
 All reinforcing bars in the tops of substructure beams or caps shall be spaced to clear anchor rod wells for bearings by at least 1/2".
 The hooks of V-Bars embedded in the beam cap shall be oriented inward. Bending the hook outward, away from the column core, is not allowed.
 The thickness of steel casing shall meet all the requirements of Sec 701 with minimum thickness being 3/8 inch. Thicker casing may be required for installation.
 For details of HLMR Bearing Assembly, see Sheet No. 43.
 For Anchor Rod Well Details and Anchor Rod Setting Plan, see Sheet No. 44.
 For details of seismic stirrup bars, see Sheet No. 7.
 Anchorage of spiral reinforcement shall be provided by 1-1/2 extra turns of spiral bar at each end of spiral unit.
 *** Pay Items Rock Socket (6 ft. 0 in. Dia.).
 **** Pay Items Drilled Shaft (6 ft. 6 in. Dia.).

PIER 15 WB

CONTRACT NO. 76D61	
F.A. ROUTE	SECTION
999	82-1B-2
FED. AID PROJECT	ILLINOIS
COUNTY	ST. CLAIR
USER NAME = jcolliff	
PLOT SCALE = #SCALE#	
PLOT DATE = 4/14/2010	
DESIGNED -	HNTB
CHECKED -	CMT
DRAWN -	CMT / HNTB
REVISED -	
REVISED -	
REVISED -	
REVISED -	
ILLINOIS APPROACH STRUCTURE FOR NEW I-70 MISSISSIPPI RIVER BRIDGE	
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
 715 KIRK DRIVE KANSAS CITY, MO 64105 TELEPHONE (816) 472-1201 CERTIFICATE OF AUTHORITY NO. 001270	
 CRAWFORD, MURPHY & TILLY, INC. 2750 WEST WASHINGTON STREET SPRINGFIELD, IL 62702 TELEPHONE (217) 787-8050 ENGINEERING CORPORATION - 000631	

Detailed JUL 2009
 Checked JUL 2009

Note: This drawing is not to scale. Follow dimensions.