

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	1
FED. ROAD DIST. NO. 3	ILLINOIS	CONTRACT NO. 87491		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

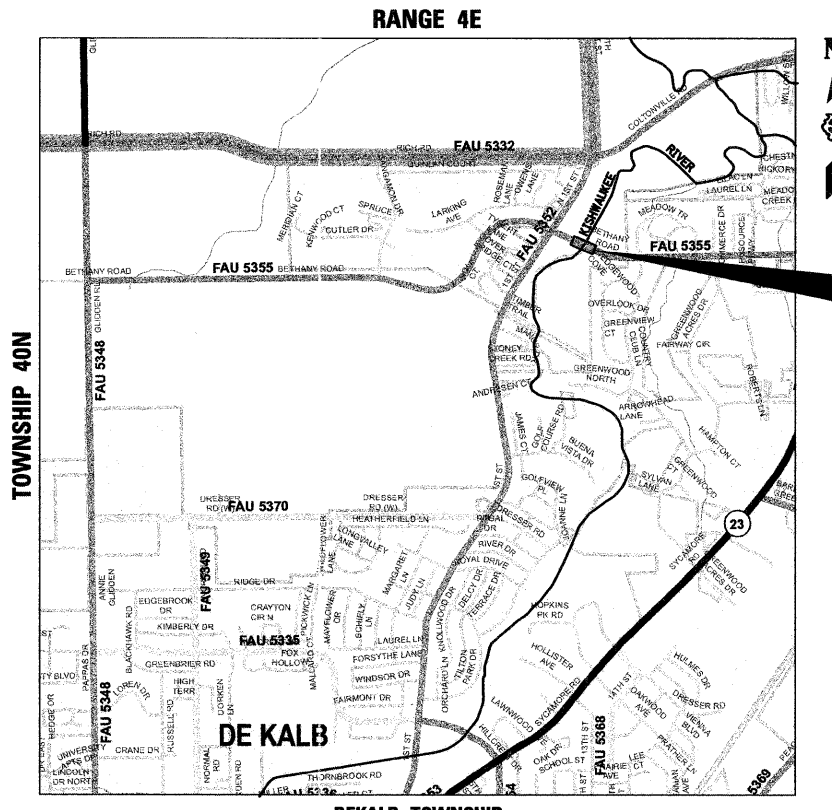
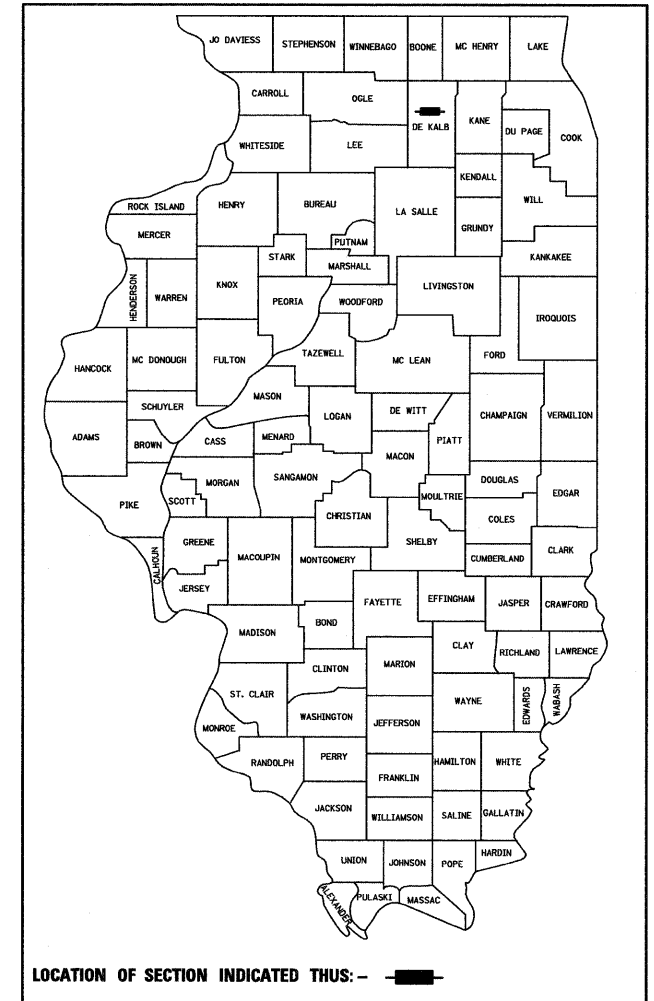
PROJECT LOCATED IN DEKALB TOWNSHIP

F.A.U. RTE 5355 (BETHANY ROAD)
OVER KISHWAUKEE RIVER
SECTION 04-00167-00-BR
PROJECT BRM-5017(046)
BRIDGE REMOVAL AND REPLACEMENT
JOB NO. C-93-116-11
DEKALB COUNTY

TRAFFIC DATA

2007 ADT = 12,600
2027 ADT = 19,100
DESIGN SPEED: 45 MPH

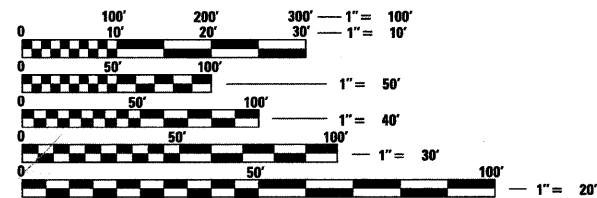
DESIGN DESIGNATION:
MINOR ARTERIAL



**PROJECT BEGINS
STA. 13 + 19.00**

INCLUDES THE REMOVAL AND REPLACEMENT OF THE STURCTURE CARRYING BETHANY ROAD OVER KISHWAUKEE RIVER STA. 17 + 83.53
EXISTING SN-019-4704
PROPOSED SN-019-6107

**PROJECT ENDS
STA. 21 + 80.00**



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

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

PROJECT NET AND GROSS LENGTH = 861.0 FT (0.163 MILE)
PROJECT LOCATED IN:
PART OF SECTION 1 IN TOWNSHIP 40N, RANGE 4E, OF THE THIRD PRINCIPAL MERIDIAN,
DEKALB COUNTY, ILLINOIS



July 7 2011
Douglas P. Breunlin
DOUGLAS P. BREUNLIN
ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-036608
EXPIRATION DATE 11-30-2011



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
APPROVED	July 7, 2011 <i>Joel C. Mauer</i> CITY OF DEKALB, CITY ENGINEER
PASSED	7-21-2011 <i>James R. Thompson</i> DISTRICT 3 IMPLEMENTATION ENGINEER
RELEASING FOR BID BASED ON LIMITED REVIEW	7-21-2011 <i>Eric S. Thurlakson</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER

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

CONTRACT NO. 87491

FIELD ENGINEER: KELLY VLASTNIK (815) 434-8575

INDEX OF SHEETS, STATE STANDARDS & DISTRICT STANDARDS

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STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
406201-01	MAILBOX TURNOUT
420401-08	BRIDGE APPROACH PAVEMENT CONNECTOR
442201-03	CLASS C AND D PATCHES
515001-03	NAME PLATE FOR BRIDGES
542101-02	REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 mm) THRU 36" (900 mm) DIA. AT RIGHT ANGLES WITH ROADWAY
601001-04	SUB-SURFACE DRAINS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
602001-02	CATCH BASIN TYPE A
602011-02	CATCH BASIN TYPE C
602301-03	INLET - TYPE A
602401-03	MANHOLE TYPE A
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS TYPE 1
604056-03	FRAME AND GRATE TYPE 11V
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606201-02	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
630001-09	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-09	TRAFFIC BARRIER TERMIAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701001-02	OFF-RD OPERATION 2L, 2W, MORE THAN 15' AWAY
701006-03	OFF-RD OPERATION 2L, 2W, 4.5 M 15' TO 24" FROM PAVEMENT EDGE
701011-02	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-11	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701901-01	TRAFFIC CONTROL DEVICES
704001-06	TEMPORARY CONCRETE BARRIER
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SUPPORT
780001-02	TYPICAL PAVEMENT MARKINGS

DISTRICT STANDARDS

STANDARD NO.	DESCRIPTION
406-8	HMA DETAIL AT BUTT JOINTS
440-2	REQUIRED COLD MILLED SURFACE TEXTURE
442-1	PAVEMENT PATCH FOR HMA SURFACED PAVEMENT
563-3	WATER AND SEWER SEPARATION REQUIREMENTS - HORIZONTAL SEPARATION
563-4	WATER AND SEWER SEPARATION REQUIREMENTS - HORIZONTAL SEPARATION
701-3	PRISMATIC BARRIER REFLECTOR
720-4	STOP LINE SIGN FOR TEMPORARY SIGNALS
780-1	URBAN PAVEMENT MARKING
781-1	URBAN PAVEMENT MARKING
782-4	BARRIER WALL MARKER

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 WILLS BURKE KELSEY ASSOCIATES LTD. <small>116 West Main Street, Suite 201 St. Charles, Illinois 60174</small>	USER NAME = nparr19	DESIGNED - DPB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS & DISTRICT STANDARDS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - SBP	REVISED -			5355	04-00167-00-BR	DEKALB	88	2
	PLOT DATE = 7/6/2011	DATE - 7/8/11	REVISED -			CONTRACT NO.87491		FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT		
					SCALE:		SHEET NO. 2 OF 88 SHEETS		STA. TO STA.	

GENERAL NOTES

ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE APPLICABLE REQUIREMENT SET FORTH IN "THE CONSTRUCTION SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2007 THEREINAFTER REFERRED TO AS STANDARD SPECIFICATIONS, THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM MANUAL TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" IN EFFECT ON THE DATE OF INVITATION FOR BIDS; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" LATEST EDITION; INTERIM SPECIAL PROVISIONS AS INCLUDED IN THE CONTRACT DOCUMENTS; AND THE DETAILS AND STANDARDS CONTAINED IN THESE PLANS.

BEFORE STARTING ANY EXCAVATIONS, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED)

THE LOCATIONS OF THE EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES, IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH, AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED AT NO ADDITIONAL COST IN ACCORDANCE WITH ARTICLE 105.07.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.

ALL WORK SHALL BE COMPLETED WITHIN THE LIMITS OF THE PROJECT SHOWN. NO EQUIPMENT, MATERIALS OR A YARD OR FIELD OFFICE SHALL BE SET UP OR STORED ON COUNTY OR PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION OF THE ENGINEER.

MAINTENANCE OF TRAFFIC-GENERAL: TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL RESPOND WITHIN 30 MINUTES OF THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.

TRAFFIC CONTROL DEVICES: ALL TRAFFIC CONTROL DEVICES USED FOR THE MAINTENANCE OF TRAFFIC AS DETAILED ON THE PLANS SHALL BE REFLECTORIZED PRIOR TO INSTALLATION AND CLEANED AS NECESSARY THROUGHOUT THE DURATION OF THE CONTRACT.

BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED- ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.

DURING CONSTRUCTION OPERATIONS ALL LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES AND TEMPORARY DITCHES THAT OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS. ALL DRAINAGE STRUCTURES SHALL BE CLEANED AS NECESSARY TO INSURE THAT THEY ARE FREE FROM ALL DIRT AND DEBRIS PRIOR TO THE FINAL INSPECTION OF THE PROJECT. THIS WORK WILL NOT BE MEASURED SEPERATELY FOR PAYMENT, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY FARM DRAIN, FIELD TILE SYSTEM OR OTHER UNDERGROUND TILE FACILITY ENCOUNTERED IN THE WORK SHALL BE LOCATED AND STAKED AND REPORTED TO THE RESIDENT ENGINEER. ANY DRAINAGE LINES WHICH ARE CUT OR DAMAGED BY GRADING, TRENCHING, EXCAVATION OR OTHER CONSTRUCTION ACTIVITIES SHALL BE REPAIRED SO AS TO MAINTAIN ITS ORIGINAL ALIGNMENT. IF THIS CANNOT BE ACCOMPLISHED, THE TILE SHALL BE REPAIRED AND CONNECTED TO THE PROPOSED STORM SEWER SYSTEM IN SUCH A MANNER AS TO RENDER THE LINES USABLE FOR THE PURPOSES INTENDED.

EARTHWORK SHALL BE PAID FOR ONLY ONCE, REGARDLESS OF STAGING. STOCK PILING OF MATERIALS FOR LATER USE AND REDISTRIBUTION SHALL BE DONE AT THE CONTRACTOR'S EXPENSE. STOCK PILING NECESSARY FOR RESPREADING IN SHOULDERS, CONSTRUCTING EMBANKMENTS, CUT OR BORROW AREAS SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE OF EARTH EXCAVATION.

GEOTECHNICAL FABRIC FOR GROUND STABILIZATION: ITEM NO. 2100100 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION WILL ONLY BE UTILIZED IN AREAS THAT HAVE BEEN IDENTIFIED AS SUBGRADE UNDERCUTS AREAS OR WHERE DETERMINED IN THE FIELD BY A GEOTECHNICAL ENGINEER. THE FABRIC WILL BE USED IN COMBINATION WITH PGE SUBGRADE. THE QUANTITY INCLUDED IN THE PLANS IS BASED ON THE SUBSURFACE INVESTIGATION PREPARED BY TESTING SERVICE CORPORATION RECOMMENDATIONS FOR UNDERCUT AREAS.

ALL EXCAVATION AND EMBANKMENT LOCATIONS REQUIRING SEEDING OR SODDING SHALL BE CONSTRUCTED TO 4 INCHES BELOW FINISHED GRADE LINE TO ALLOW TOPSOIL PLACEMENT.

PAVEMENT ELEVATIONS: THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES FOR THE PROPOSED PAVEMENT OR SURFACE COURSE, UNLESS OTHERWISE INDICATED.

THE HORIZONTAL DATUM IS NAD 83 AND THE VERTICAL DATUM IS NAVD 29.

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

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

SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

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

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

GRANULAR MATERIALS	2.05	TONS / CU YD
BIT MATERIALS (PRIME COAT) ON AGGREGATE BASES	0.375	GAL / SQ YD
FOR ADDITIONAL HMA LIFTS "FOG COAT"	0.08	GAL / SQ YD
AGGREGATE PRIME COAT	0.002	TONS / SQ YD
HMA RESURFACING	112	LBS / SQ YD / INCH
SHORT TERM PAVEMENT MARKING	10	FT / 100 FT OF APPLICATION
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION

THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.

REMOVAL OF EXCAVATED MATERIAL AND CLEAN CONSTRUCTION OR DEMOLITION DEBRIS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAWFUL REMOVAL OF ALL EXCAVATED SOIL, MATERIAL AND OTHER CLEAN CONSTRUCTION OR DEMOLITION DEBRIS IN COMPLIANCE WITH PUBLIC ACT 96-1416. ALL COSTS FOR REMOVAL, HAULING, DISPOSING AND DOCUMENTATION OF ASPHALT, CONCRETE, STONE, SOIL, ANY COMBINATION THEREOF OR ANY OTHER EXCAVATED MATERIAL SHALL BE INCLUDED IN THE COST OF EACH PAY ITEM AND WILL NOT BE PAID FOR SEPERATELY OR AS AN ADDITIONAL ITEM. ANY COSTS INCLUDING BUT NOT LIMITED TO HAULING, TIPPING FEE, CHARGES, DOCUMENTATION, TESTING, OR CERTIFICATIONS RELATED TO COMPLIANCE WITH PUBLIC ACT 96-1416 IS INCIDENTAL TO EACH PAY ITEM WHERE REMOVAL IS SPECIFIED. THE CONTRACTOR SHALL NOT RELY ON THE CITY OF DEKALB TO PROVIDE SOURCE SITE CERTIFICATION FOR REMOVAL OF ANY MATIERALS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: SHEET NO. 3 OF 88 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	3
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SPECIAL PROVISION	SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
						80% FEDERAL 20% STATE		100% LOCAL
						ROADWAY 0004 URBAN	BRIDGE 0011 URBAN	TRAINEES 0042 URBAN
		20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	140	140		
		20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	18	18		
		20101100	TREE TRUNK PROTECTION	EACH	9	9		
S		20200100	EARTH EXCAVATION	CU YD	570	570		
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1,725	1725		
		20300100	CHANNEL EXCAVATION	CU YD	1,060	1060		
		20400800	FURNISHED EXCAVATION	CU YD	800	800		
		20800150	TRENCH BACKFILL	CU YD	255	255		
		21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	3,700	3700		
		21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3,499	3499		
S		21400100	GRADING AND SHAPING DITCHES	FOOT	113	113		
	*	25000110	SEEDING, CLASS 1A	ACRE	0.75	0.75		
	*	25000312	SEEDING, CLASS 4A	ACRE	0.25	0.25		
	*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	90	90		
	*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	90	90		
	*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90	90		
	*	25100630	EROSION CONTROL BLANKET	SQ YD	3,599	3599		
	*	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	413	413		
S		28000305	TEMPORARY DITCH CHECKS	FOOT	230	230		
		28000400	PERIMETER EROSION BARRIER	FOOT	1,556	1556		
		28000500	INLET AND PIPE PROTECTION	EACH	16	16		
		28100107	STONE RIPRAP, CLASS A4	SQ YD	1,018		1018	
		28200200	FILTER FABRIC	SQ YD	1,018		1018	
		31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	66	66		
		35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	112	112		
		40300200	BITUMINOUS MATERIALS (PRIME COAT)	TON	5	5		
		40600300	AGGREGATE (PRIME COAT)	TON	6	6		
		40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	130	130		
		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	72	72		
		40600990	TEMPORARY RAMP	SQ YD	107	107		
		40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	797	797		
		40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	272	272		

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PLOT DATE = 7/6/2011	DATE - 7/8/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 4 OF 88 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	4
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SPECIAL PROVISION	SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
						80% FEDERAL 20% STATE			100% LOCAL
						ROADWAY 0004 URBAN	BRIDGE 0011 URBAN	TRAINEES 0042 URBAN	
		550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	69	69			
		550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	149	149			
S	*	56106600	ADJUSTING WATER MAIN 12"	FOOT	90	90			
		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	59		59		
		60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4		4		
		60238800	INLETS, TYPE A	EACH	3	3			
S		60404805	FRAMES AND GRATES, TYPE 11V	EACH	6	6			
		60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	5	5			
		60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	6	6			
		60500050	REMOVING CATCH BASINS	EACH	1	1			
S		60603800	GUTTER OUTLET (SPECIAL)	EACH	4	4			
		60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	412	412			
	*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4			
S	*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4			
	*	63200310	GUARDRAIL REMOVAL	FOOT	554	554			
		66500105	WOVEN WIRE FENCE, 4'	FOOT	118	118			
		67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8			
		67100100	MOBILIZATION	L SUM	1	1			
		70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1			
S		70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1			
		70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1			
		70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1			
		70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	14	14			
S	*	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1			
S		70106800	CHANGEABLE MESSAGE SIGN	CAL MO	12	12			
		70300100	SHORT TERM PAVEMENT MARKING	FOOT	469	469			
		70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	94	94			
		70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	6,507	6507			
		70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	318	318			
		70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	252	252			
		70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,547	1547			
		70400100	TEMPORARY CONCRETE BARRIER	FOOT	412.5	412.5			

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SUMMARY OF QUANTITIES

SPECIAL PROVISION	SPECIALTY ITEM	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
						80% FEDERAL 20% STATE		100% LOCAL
						ROADWAY 0004 URBAN	BRIDGE 0011 URBAN	TRAINEES 0042 URBAN
		70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	412.5	412.5		
	*	72000100	SIGN PANEL - TYPE 1	SQ FT	25	25		
	*	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	3	3		
	*	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	68	68		
	*	78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	78	78		
	*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	5,930	5930		
	*	78001140	PAINT PAVEMENT MARKING - LINE 8"	FOOT	360	360		
	*	78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	237	237		
	*	78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	29	29		
S	*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	4	4		
	*	78200520	BARRIER WALL MARKERS, TYPE B	EACH	6	6		
S	*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
		78300100	PAVEMENT MARKING REMOVAL	SQ FT	905	905		
	*	A2002474	TREE, BETULA NIGRA HERITAGE (HERITAGE RIVER BIRCH), 10' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	3	3		
	*	A2008618	TREE, ULMUS MORTON GLOSSY (TRIUMPH ELM), 3" CALIPER, BALLED AND BURLAPPED	EACH	1	1		
	*	D2001988	EVERGREEN, PICEA GLAUCA DENSATA (BLACK HILLS SPRUCE), 8' HEIGHT, BALLED AND BURLAPPED	EACH	1	1		
	*	D2002996	EVERGREEN, PINUS STROBUS (EASTERN WHITE PINE), 10' HEIGHT, BALLED AND BURLAPPED	EACH	1	1		
S		X0326806	WASHOUT BASIN	L SUM	1	1		
S		X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	108		108	
S		X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	100		
S		X4240430	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	SQ FT	1,285	1285		
S		X4400110	TEMPORARY PAVEMENT REMOVAL	SQ YD	148	148		
S		X4430200	REFLECTIVE CRACK CONTROL TREATMENT, SPECIAL	FOOT	546	546		
S		X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1		1	
S		X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1		1	
S		X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	1,002		1002	
S		X6650202	WOVEN WIRE FENCE REMOVAL	FOOT	117	117		
S		XX006345	TURBIDITY BARRIER	FOOT	265	265		
S		XX008432	GRADING AND SHAPING SHOULDERS	FOOT	635	635		
S		XX008566	AGGREGATE SUBGRADE	CU YD	1,305	1305		
S		Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	1,339	1339		
S		Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	48		48	

FILE NAME = I:\Projects\2010\1002054_Bethany\B-Acadd\Civil\Drawn\Shr\5004.dgn

SCHEDULE OF QUANTITIES

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

UNIT	LOCATION	O/S (LT)	O/S (RT)	REMARKS
8	16+11.80	54.30		8"
8	16+45.00	57.30		8"
24	17+07.20	62.00		4x6"
30	17+19.20	58.00		5x6"
18	17+25.10	66.60		3x6"
12	18+25.80		43.3	12"
8	18+37.10	47.20		8"
8	18+73.70	64.4		8"
12	18+84.30	49.7		12"
12	21+69.80		46.6	12"
140	TOTAL			

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

UNIT	LOCATION	O/S (LT)	O/S (RT)	REMARKS
18	15+90.60	53.60		18
18	TOTAL			

20800150 TRENCH BACKFILL

VOLUME (CU YD)	LOCATION	O/S	LENGTH (FT)	WIDTH (FT)	DEPTH (FT)	REMARKS	
30.0	15+00.00	15+50.00	LT	26.0	4.90	6.35	18" WM REQ.
5.2	16+00.00	16+00.00	LT	4.5	4.90	6.4	18" WM REQ.
57.7	16+00.00	16+00.00	LT/RT	53.0	4.90	6	18" RCP
16.0	16+00.00	16+00.00	RT	16.0	4.90	5.5	18" RCP
34.1	19+00.00	19+74.00	LT	74.0	2.83	4.4	12" RCP
5.4	19+74.00	19+74.00	LT	4.5	5.75	5.6	24" RCP
56.1	19+74.00	19+74.00	LT/RT	47.0	5.75	5.6	24" RCP
31.0	19+00.00	19+74.00	RT	74.0	2.83	4	12" RCP
19.4	19+74.00	19+74.00	RT	16.0	5.75	5.7	24" RCP
255.0	TOTAL						

42001430 BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)

AREA (SQ YD)	LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SQ FT)	REMARKS
34.5	17+10.20	17+16.20	6	51.8	HMA
34.4	18+79.87	18+85.87	6	51.6	
69	TOTAL				

50105220 PIPE CULVERT REMOVAL

FOOT	LOCATION	O/S	REMARKS
25.0	15+13.70	15+38.50	LT 12" CMP - DRIVEWAY
172.0	15+63.00	17+35.00	RT 15" CMP
155.0	18+45.00	20+00.00	RT 15" CMP
352.0	TOTAL		

54213459 END SECTIONS 24"

EACH	LOCATION	O/S	REMARKS
1.0	17+47.20	42.00	LT END SEC 1
1.0	18+19.90	42.00	LT END SEC 2
2.0	TOTAL		

550A0340 STORM SEWERS, CLASS A, TYPE 2 12"

FOOT	LOCATION	O/S	REMARKS
74.0	19+00.00	19+74.00	LT 12" RCP
74.0	19+00.00	19+74.00	RT 12" RCP
148.0	TOTAL		

550A0360 STORM SEWERS, CLASS A, TYPE 2 15"

FOOT	LOCATION	O/S	REMARKS
7.0	15+63.00	15+63.00	RT 15" RCP
7.0	TOTAL		

550A0380 STORM SEWERS, CLASS A, TYPE 2 18"

FOOT	LOCATION	O/S	REMARKS
53.0	16+00.00	16+00.00	LT/RT 18" RCP
16.0	16+00.00	16+00.00	RT 18" RCP
69.0	TOTAL		

FILE NAME = W:\Projects\2010\100054_Berthel\B-Accred\Civil\Draw\Sht\SCHEDULE1.dgn

SCHEDULE OF QUANTITIES

550A0410 STORM SEWERS, CLASS A, TYPE 2 24"

FOOT	LOCATION	O/S	REMARKS
10.0	19+74.00	19+74.00	LT 24" RCP
47.0	19+74.00	19+74.00	LT/RT 24" RCP
16.0	19+74.00	19+74.00	RT 24" RCP
76.0	19+74.00	20+50.00	RT 24" RCP
149.0	TOTAL		

60406000 FRAMES AND LIDS, TYPE 1, OPEN LID

EACH	LOCATION	O/S	REMARKS
1.0	15+00.00	42.00	LT STRUCT 3
1.0	15+50.00	42.00	LT STRUCT 2
1.0	15+63.10	40.00	RT STRUCT 7A
1.0	20+50.00	39.00	RT STRUCT 13
1.0	20+49.50	33.50	LT STRUCT 9
5.0	TOTAL		

56106600 ADJUSTING WATER MAIN 12"

FOOT	LOCATION	O/S	REMARKS
30.0	16+00.00	35.20	LT STORM SEWER CROSSING
60.0	13+19.00	21+80.00	LT/RT AS DIRECTED BY R.E.
90.0	TOTAL		

60406100 FRAMES AND LIDS, TYPE 1, CLOSED LID

EACH	LOCATION	O/S	REMARKS
1.0	16+00.00	42.00	LT STRUCT 1
1.0	16+00.00	40.00	RT STRUCT 6
1.0	15+63.10	32.80	RT STRUCT 7B
1.0	19+74.00	34.50	LT STRUCT 8
1.0	19+74.00	39.00	RT STRUCT 12
1.0	PROJECT		LT/RT FIELD LOCATED TILE -AS DIRECT BY R.E.
6.0	TOTAL		

60100060 CONCRETE HEADWALLS FOR PIPE DRAINS

EACH	LOCATION	O/S	REMARKS
1.0	17+13.20	42.10	LT PIPE UD FOR STRUCTURES
1.0	17+13.20	46.70	RT PIPE UD FOR STRUCTURES
1.0	18+53.90	40.10	LT PIPE UD FOR STRUCTURES
1.0	18+53.90	46.70	RT PIPE UD FOR STRUCTURES
4.0	TOTAL		

60500050 REMOVING CATCH BASINS

EACH	LOCATION	O/S	REMARKS
1.0	15+63.12	32.80	RT EXIST CB
1.0	TOTAL		

60238800 INLETS, TYPE A

EACH	LOCATION	O/S	REMARKS
1.0	19+00.00	27.20	LT STRUCT 14
1.0	19+00.00	23.60	RT STRUCT 15
1.0	PROJECT		LT/RT FIELD LOCATED TILE -AS DIRECT BY R.E.
3.0	TOTAL		

60603400 GUTTER OUTLET (SPECIAL)

EACH	LOCATION	O/S	REMARKS
1.0	15+86.60	32.80	LT TRANSITION TO SHOULDER
1.0	15+86.60	32.80	RT
1.0	19+95.10	32.80	LT
1.0	19+95.10	32.80	RT
4.0	TOTAL		

60404805 FRAMES AND GRATES, TYPE 11V

EACH	LOCATION	O/S	REMARKS
1.0	16+00.00	30.40	LT STRUCT 4
1.0	16+00.00	23.00	RT STRUCT 5
1.0	19+74.00	23.60	LT STRUCT 10
1.0	19+74.00	23.00	RT STRUCT 11
1.0	19+00.00	27.20	LT STRUCT 14
1.0	19+00.00	23.60	RT STRUCT 15
6.0	TOTAL		

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SCHEDULE OF QUANTITIES

63100085 TRAFFIC BARRIER TERMINAL, TYPE 6				
EACH	LOCATION		O/S	REMARKS
1	16+61.30	17+04.20	LT	NW CORNER DEPARTING
1	16+59.60	17+04.20	RT	SW CORNER APPROACH
1	18+62.90	19+08.00	LT	NE CORNER APPROACH
1	18+62.90	19+08.00	RT	SE CORNER DEPARTING
4	TOTAL			

70106800 CHANGEABLE MESSAGE SIGN		
CAL MO	LOCATION	REMARKS
3	EAST OF PROJECT	STAGE 1 - AS DIRECTED BY R. E.
3	WEST OF PROJECT	
3	EAST OF PROJECT	STAGE 2 - AS DIRECTED BY R. E.
3	WEST OF PROJECT	
12	TOTAL	

63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT				
EACH	LOCATION		O/S	REMARKS
1	16+11.30	16+61.30	LT	NW CORNER DEPARTING
1	16+09.60	16+59.60	RT	SW CORNER APPROACH
1	19+08.00	19+61.30	LT	NE CORNER APPROACH
1	19+08.00	19+62.90	RT	SE CORNER DEPARTING
4	TOTAL			

70300100 SHORT TERM PAVEMENT MARKING				
FOOT	LOCATION		O/S	REMARKS
212	12+19.00	22+80.00	CL	STAGE 3- DOUBLE 4" SKIP-DASH
14	12+19.00	13+62.70	LT	STAGE 3 - SINGLE 4" WHITE LANE
8	12+64.00	13+43.00	RT	STAGE 3 - SINGLE 4" WHITE LANE
234	SUB-TOTAL			
2	APPLICATIONS			
469	TOTAL			

63200310 GUARDRAIL REMOVAL				
FOOT	LOCATION		O/S	REMARKS
139	15+71.80	17+10.60	LT	NW CORNER DEPARTING
139	15+71.90	17+10.60	RT	SW CORNER APPROACH
138	18+56.50	19+94.80	LT	NE CORNER APPROACH
138	18+56.70	19+94.90	RT	SE CORNER DEPARTING
554	TOTAL			

X2130010 EXPLORATION TRENCH, SPECIAL			
FOOT	LOCATION		REMARKS
100	13+19.00	21+80.00	AS DIRECTED BY R.E.
100	TOTAL		

66500105 WOVEN WIRE FENCE, 4'				
FOOT	LOCATION		O/S	REMARKS
16	18+35.90	18+35.90	LT	
101	18+35.90	19+37.03	LT	
118	TOTAL			

Z0007124 STEEL RAILING (SPECIAL)				
(FOOT)	LOCATION		O/S	REMARKS
65.9	16+51.28	17+17.20	RT	WEST APPROACH
47.1	18+49.90	18+96.98	RT	EAST APPROACH
113.0	TOTAL ROADWAY			
132.7	17+17.20	18+49.90	RT	BRIDGE
132.7	TOTAL BRIDGE			

70103815 TRAFFIC CONTROL SURVEILLANCE				
CAL DAYS	LOCATION		O/S	REMARKS
14	13+19.00	21+80.00	LT/RT	STAGE 1 A AND STAGE 3
14	TOTAL			

Z0013302 SEGMENTAL CONCRETE BLOCK WALL				
SQ FT	LOCATION		O/S	REMARKS
52	16+87.00		LT	TREE WALL
52	17+20.00		LT	TREE WALL
104	TOTAL			

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WILLS BURKE KELSEY ASSOCIATES LTD.
 110 West Main Street, Suite 201
 St. Charles, Illinois 60114
 (630) 443-7755

USER NAME = #USER#	DESIGNED - DPB	REVISED -
PLOT SCALE =	DRAWN - NDP	REVISED -
PLOT DATE = 7/8/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES	
SCALE:	SHEET NO. 11 OF 88 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	11
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

Z0046304 PIPE UNDERDRAINS FOR STRUCTURES 4"

FOOT	LOCATION	O/S	REMARKS
42.0	17+13.00	LT	WEST BRIDGE APPROACH
47.0	15+50.00	RT	
40.0	16+00.00	LT	EAST BRIDGE APPROACH
47.0	19+74.00	RT	
176.0	TOTAL		

CATCH BASINS, TYPE A, 4' DIAMETER

EACH	LOCATION	O/S	REMARKS
1.0	15+00.00	42.00	LT STRUCT 3
1.0	15+50.00	42.00	LT STRUCT 2
1.0	15+63.10	40.00	RT STRUCT 7A
1.0	16+00.00	30.40	LT STRUCT 4
1.0	20+49.50	33.50	LT STRUCT 9
1.0	20+50.00	39.00	RT STRUCT 13
6.0	TOTAL		

Z0056612 STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH

FOOT	LOCATION	O/S	REMARKS
50.0	15+00.00	15+00.00	LT 18" WM REQ
50.0	15+50.00	16+00.00	LT 18" WM REQ
11.0	16+00.00	16+00.00	LT/RT 18" WM REQ
74.0	19+74.00	20+49.50	LT 18" WM REQ
185.0	TOTAL		

A2002474 TREE, BETULA NIGRA HERITAGE (HERITAGE RIVER BIRCH), 10' HEIGHT, CLUMP FORM, BALLED & BURLAPPED

UNIT	LOCATION	O/S	REMARKS
1	17+07.70	67.6'	LT ABBREVIATED AS 'BN'
1	17+17.50	63.9'	LT
1	17+26.80	68.6'	LT
3	TOTAL		

Z0056616 STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH

FOOT	LOCATION	O/S	REMARKS
147.0	16+00.00	17+47.20	LT 24" WM REQ
154.0	18+19.90	19+74.00	LT/RT 24" WM REQ
301.0	TOTAL		

A2008618 TREE, ULMUS MORTON GLOSSY (TRIUMPH ELM), 3" CALIPER, BALLED AND BURLAPPED

UNIT	LOCATION	O/S	REMARKS
1	15+81.60	53.4'	LT ABBREVIATED AS 'UM'
1	TOTAL		

MANHOLES, TYPE A, 4' DIAMETER

EACH	LOCATION	O/S	REMARKS
1.0	16+00.00	23.00	RT STRUCT 5
1.0	16+00.00	40.00	RT STRUCT 6
1.0	15+63.10	32.80	RT STRUCT 7B
3.0	TOTAL		

D2001988 EVERGREEN, PICEA GLAUCA DENSATA (BLACK HILLS SPRUCE), 8' HEIGHT, BALLED AND BURLAPPED

UNIT	LOCATION	O/S	REMARKS
1	16+44.90	65.8'	LT ABBREVIATED AS 'PG'
1	TOTAL		

MANHOLES, TYPE A, 5' DIAMETER

EACH	LOCATION	O/S	REMARKS
1.0	16+00.00	42.00	LT STRUCT 1
1.0	19+74.00	34.50	LT STRUCT 8
1.0	19+74.00	23.60	LT STRUCT 10
1.0	19+74.00	23.00	RT STRUCT 11
1.0	19+74.00	39.00	RT STRUCT 12
5.0	TOTAL		

D2002996 EVERGREEN, PINUS STROBUS (EASTERN WHITE PINE), 10' HEIGHT, BALLED AND BURLAPPED

UNIT	LOCATION	O/S	REMARKS
1	16+16.20	61.7'	LT ABBREVIATED AS 'PS'
1	TOTAL		

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SEEDING AND EROSION CONTROL SCHEDULE

LOCATION	OFF.	20101100	21101625	25000110	25000312	25000400	25000500	25000600	25100630	28000250	28000305	28000400	28000500	28100107	28200200
		TREE TRUNK PROTECTION	TOPSOIL FURNISH AND PLACE, 4"	SEEDING, CLASS 1A	SEEDING, CLASS 4A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	STONE RIPRAP, CLASS A4	FILTER FABRIC
		(EACH)	(SQ YD)	(SQ YD)	(SQ YD)	(LBS)	(LBS)	(LBS)	(SQ YD)	(LBS)	(FOOT)	(FOOT)	(EACH)	(SQ YD)	(SQ YD)
MAINLINE															
13+19.00 - 13+50.00			84.2	84.2		1.6	1.6	1.6	84.2	10.0	10	62	1		
13+50.00 - 14+00.00			62.5	62.5		1.2	1.2	1.2	62.5	7.4		58	1		
14+00.00 - 14+50.00			164.6	164.5		3.1	3.1	3.1	164.6	19.4		100			
14+50.00 - 15+00.00			242.1	242.0		4.6	4.6	4.6	242.1	28.6		100	1		
15+00.00 - 15+26.00			116.6	116.5		2.2	2.2	2.2	116.6	13.8	10	45	3		
15+26.00 - 15+50.00			106.8	106.7		2.0	2.0	2.0	106.8	12.6	10	46			
15+50.00 - 16+00.00			254.3	250.4		4.8	4.8	4.8	254.3	30.0	10	103			
16+00.00 - 16+50.00		1.0	200.2	111.5	3.8	88.6	3.8	3.8	200.2	23.6	10	101			
16+50.00 - 17+00.00			263.0	103.8	159.2	4.9	4.9	4.9	263.0	31.0		100			
17+00.00 - 17+16.20			93.5	49.0	44.5	1.8	1.8	1.8	93.5	11.1		22		12.6	12.6
BRIDGE												50		992.4	992.4
18+49.87 - 19+00.00		1.0	170.8	49.0	121.7	3.2	3.2	3.2	170.8	20.2		88		13.0	13.0
19+00.00 - 19+50.00		1.0	251.7	108.2	143.3	4.7	4.7	4.7	251.7	29.7	10	121	2		
19+50.00 - 20+00.00		1.0	203.8	124.9	78.8	3.8	3.8	3.8	203.8	24.0	10	100	2		
20+00.00 - 20+50.00		1.0	320.8	320.7		6.0	6.0	6.0	320.8	37.8		100	2		
20+50.00 - 21+00.00		2.0	367.9	367.8		6.9	6.9	6.9	367.9	43.4	40	100			
21+00.00 - 21+50.00			368.4	368.4		6.9	6.9	6.9	368.4	43.4	20	100			
21+50.00 - 22+00.00		1.0	227.8	227.8		4.3	4.3	4.3	227.8	26.9	20	60			
22+00.00 - 22+50.00		1.0													
22+50.00 - 23+00.00															
MAINTENANCE / REPL.															
13+19.00 - 23+00.00	LT/RT								100.0		80	100	4		
TOTAL		9	3,499.0	2,857.9	639.9	65.8	65.8	65.8	3,599.0	413.0	230	1,556	16	1,018.0	1,018.0
				0.75 AC	0.25 AC	90.0	90.0	90.0							

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TEMPORARY STRIPING AND MOT ITEMS SCHEDULE

LOCATION	REMARKS	70106500	70300210	70300220	70300250	70300280	70301000	70400100	70400200	Z0030250	Z0030350	Z0030850
		TEMPORARY BRIDGE TRAFFIC SIGNALS	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	TEMPORARY PAVEMENT MARKING - LINE 4" (SEE NOTE 1)	TEMPORARY PAVEMENT MARKING - LINE 8"	TEMPORARY PAVEMENT MARKING - LINE 24"	WORK ZONE PAVEMENT MARKING REMOVAL	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	TEMPORARY INFORMATION SIGNING
		(EACH)	(SQ FT)	(FOOT)	(FOOT)	(FOOT)	(SQ FT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(SQ FT)
STAGE 1	STAGE 1											
12+19.00 - 12+50.00			31.2	186.0	64.0		20.5					
12+50.00 - 13+00.00			31.2	300.0	134.0		42.9					
13+00.00 - 13+50.00			31.2	172.0	120.0	56.0	52.3					
13+50.00 - 14+00.00				132.0		58.0	21.8					
14+00.00 - 14+50.00				542.0			89.4					
14+50.00 - 15+00.00				200.0			33.0					
15+00.00 - 15+50.00				200.0		32.0	33.0					
15+50.00 - 16+00.00				200.0			33.0					
16+00.00 - 16+50.00				200.0			33.0					
16+50.00 - 17+00.00				200.0			33.0					
17+00.00 - 17+50.00				200.0			33.0					
17+50.00 - 18+00.00				200.0			33.0					
18+00.00 - 18+50.00				200.0			33.0					
18+50.00 - 19+00.00				200.0			33.0					
19+00.00 - 19+50.00				200.0			33.0					
19+50.00 - 20+00.00				200.0			33.0					
20+00.00 - 20+50.00				200.0			33.0					
20+50.00 - 21+00.00				200.0			33.0					
21+00.00 - 21+50.00				200.0			33.0					
21+50.00 - 22+00.00				222.0		22.0	0.0					
22+00.00 - 22+50.00				200.0			0.0					
22+50.00 - 23+00.00				200.0			0.0					
STAGE 2	STAGE 2											
12+19.00 - 12+50.00							30.7					
12+50.00 - 13+00.00							49.5					
13+00.00 - 13+50.00				32.0			97.6					
13+50.00 - 14+00.00				50.0			74.5					
14+00.00 - 14+50.00				124.0		28.0	40.9					
14+50.00 - 15+00.00				100.0		29.0	33.0					
15+00.00 - 15+50.00				100.0			65.0					
15+50.00 - 16+00.00				72.0			23.8					
16+00.00 - 16+50.00				100.0		16.0	33.0					
16+50.00 - 17+00.00				100.0			33.0					
17+00.00 - 17+50.00				100.0			33.0					
17+50.00 - 18+00.00				100.0			33.0					
18+00.00 - 18+50.00				100.0			33.0					
18+50.00 - 19+00.00				100.0			33.0					
19+00.00 - 19+50.00				100.0			33.0					
19+50.00 - 20+00.00				100.0			33.0					
20+00.00 - 20+50.00				100.0			33.0					
20+50.00 - 21+00.00				100.0			33.0					
21+00.00 - 21+50.00				100.0			33.0					
21+50.00 - 22+00.00				75.0			46.8					
22+00.00 - 22+50.00				50.0			16.5					
22+50.00 - 23+00.00				50.0		11.0	16.5					
TEMP BRIDGE SIGNALS	STAGE 1 AND 2	1.0										64.0
13+19.00 - 21+80.00												
TEMP CONCRETE BARRIER	TAPER SECTION - STAGE 1 & 2							87.5	87.5			
15+74.80 - 16+62.30								237.5	237.5			
16+62.30 - 18+99.80	TANGENT SECTION - STAGE 1 & 2							87.5	87.5			
18+99.80 - 19+87.30	TAPER SECTION - STAGE 1 & 2											
ATTENUATORS	STAGE 1 & 2 BEGINNING OF TAPER									1.0	1.0	
18+99.80										1.0	1.0	
19+87.00	STAGE 1 & 2 END OF TAPER											
TOTAL		1.0	94.0	6,507.0	318.0	252.0	1,547.0	412.5	412.5	2.0	2.0	64.0

NOTE 1: TEMPORARY STRIPING QUANTITY FOR STAGE 1 HAS BEEN DOUBLED TO ALLOW FOR APPLICATIONS THAT MAY BE REQUIRED OUTSIDE OF TEMPERATURE SPECIFICATION DUE TO THE CONSTRUCTION START REQUIRED BY THE CORPS OF ENGINEER'S NATIONWIDE PERMIT.

WILLS BURKE KELSEY ASSOCIATES LTD. <small>110 West Main Street, Suite 201 St. Charles, Illinois 60174 (830) 443-7755</small>	USER NAME = #USER#	DESIGNED - DPB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - SBP	REVISIED -		SCALE:	SHEET NO. 14 OF 88 SHEETS	STA.	TO STA.	5355	04-00167-00-BR	DEKALB	88	14
	PLOT DATE = 7/8/2011	DATE - 7/8/11	REVISED -						CONTRACT NO.87491				

FILE NAME = M:\P\Projects\1100854\1100854\Drawings\1100854\Sht\STRIPING\SCHEDULE6.dgn

STRIPING, SIGNAGE AND MARKERS SCHEDULE

LOCATION	REMARKS	72000100	72000100	72800100	78200410	78200520	78201000	78001100	78001110	78001140	78001150	78001180	78300100
		SIGN PANEL - TYPE 1	REMOVE SIGN PANEL ASSEMBLY- TYPE A	TELESCOPING SIGN SUPPORT	GUARDRAIL MARKERS, TYPE A	BARRIER WALL MARKERS, TYPE B	TERMINAL MARKER - DIRECT APPLIED	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	PAINT PAVEMENT MARKING - LINE 4"	PAINT PAVEMENT MARKING - LINE 8"	PAINT PAVEMENT MARKING - LINE 12"	PAINT PAVEMENT MARKING - LINE 24"	PAVEMENT MARKING REMOVAL
		(SQ FT)	(EACH)	(FOOT)	(EACH)	(EACH)	(EACH)	(SQ FT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(SQ FT)
MAINLINE													
12+19.00 - 12+50.00	PERMANENT								124.0	89.0			
12+50.00 - 13+00.00									200.0	100.0			
13+00.00 - 13+50.00									31.2	193.0			9.3
13+50.00 - 14+00.00									46.8	190.0		29.0	70.7
14+00.00 - 14+50.00										278.0	13.0	6.0	70.7
14+50.00 - 15+00.00										300.0	13.0	19.0	70.7
15+00.00 - 15+50.00										311.0	3.0	11.0	70.7
15+50.00 - 16+00.00										400.0		30.0	70.7
16+00.00 - 16+50.00						2.0		2.0		400.0		35.0	70.7
16+50.00 - 17+00.00										400.0		28.0	70.7
17+00.00 - 17+50.00										400.0		24.0	
17+50.00 - 18+00.00										300.0		12.0	
18+00.00 - 18+50.00										300.0		24.0	66.0
18+50.00 - 19+00.00										300.0		12.0	66.0
19+00.00 - 19+50.00						2.0				300.0		24.0	66.0
19+50.00 - 20+00.00								2.0		300.0		12.0	66.0
20+00.00 - 20+50.00										234.0			66.0
20+50.00 - 21+00.00										200.0			66.0
21+00.00 - 21+50.00										200.0			4.7
21+50.00 - 22+00.00										200.0			
22+00.00 - 22+50.00										200.0			
22+50.00 - 23+00.00										200.0			
SIGNAGE													
14+62.70 27.1 LT	R3-8 MOD	7.5		17.0									
14+64.60 33.0 RT	R3-8 MOD	7.5		17.0									
15+00.00 27.0 RT	R4-9	5.0		17.0									
20+50.00 22.0 LT	R4-9	5.0		17.0									
SIGN REMOVAL													
17+10.00 17.1 LT	OM-3L		1.0										
18+56.00 17.1 RT	OM-3L		1.0										
18+56.00 17.1 LT	OM-3L		1.0										
TOTAL		25.0	3.0	68.0	4.0	6.0	4.0	78.0	5,930.0	360.0	237.0	29.0	905.0

FILE NAME = \\N:\Projects\2010\000054_Berthouge\Road\G:\1\Drawings\SCHDULE7.dgn

WBK WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

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	DRAWN - NDP	REVISED -
PLOT SCALE =	CHECKED - SBP	REVISED -
PLOT DATE = 7/6/2011	DATE - 7/8/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO. 15 OF 88 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	15
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT CONTRACT NO. 87491				

EARTHWORK SCHEDULE

LOCATION	END AREAS				EARTH WORK					SUBGRADE IMPROVEMENT			DITCHES	
	TOPSOIL STRIPPING (TSS)	UNDERCUTS	CUT (C)	FILL (F)	20201200 REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	20200100 EARTH EXCAVATION	EMBANKMENT	FURNISHED BALANCE WASTE (+) or SHORTAGE (-)	20300100 CHANNEL EXCAVATION	20201200 REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	XZ191300 AGGREGATE SUBGRADE (UNDERCUTS)	21001000 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	21400100 GRADING AND SHAPING DITCHES	
	(SQ FT)	(SQ FT)	(SQ FT)	(SQ FT)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(SQ YD)	(FOOT)	
MAINLINE														
14+80.00	1.2	13.3	19.2	0.6						35.1	35.1	75.1		
15+00.00	3.7	13.2	16.5	1.2	1.8	13.2	0.7	10.6		46.5	46.5	157.6	50.0	
15+26.00	14.8	13.0	14.4	4.0	8.9	14.9	2.5	10.1		48.2	48.2	154.9	63.0	
15+50.00	14.2	20.9	27.2	19.7	12.9	18.5	10.5	5.2		117.2	117.2	332.9		
16+00.00	25.0	36.7	49.7	64.6	36.3	71.2	78.1	-17.5		142.6	142.6	388.5		
16+50.00	27.7	36.8	60.2	88.0	48.8	101.8	141.3	-54.8		135.8	135.8	350.7		
16+87.20	28.4	79.2	67.0	77.1	38.7	87.6	113.7	-39.3		56.4	56.4	142.0		
17+00.00	28.9	76.5	74.2	81.4	13.6	33.5	37.6	-9.1		72.2	72.2	186.5		
17+16.20	30.2	75.2	85.8	109.7	17.7	48.0	57.3	-16.5		6.2	6.2	16.3		
BRIDGE														
18+49.87	20.1	65.2	11.5	125.6						6.1	6.1	17.2		
18+79.87	21.6	64.7	9.8	86.6	23.2	11.8	117.9	-107.8		117.2	117.2	320.4		
19+00.00	22.8	29.1	0.9	137.1	16.6	4.0	83.4	-80.0		69.3	69.3	190.6		
19+50.00	20.5	32.5	3.9	119.8	40.1	4.4	237.9	-234.1		143.7	143.7	409.5		
20+00.00	20.6	31.7	7.6	113.4	38.1	10.7	215.9	-206.9		141.3	141.3	420.3		
20+50.00	19.0	14.9	20.1	26.1	36.7	25.7	129.2	-107.4		117.3	117.3	376.0		
21+00.00	21.2		28.9	15.6	37.2	45.4	38.6	-0.0		47.5	47.5	157.8		
21+50.00	18.8		33.0	3.0	37.0	57.3	17.2	31.5						
21+80.00					10.4	18.3	1.7	13.9						
CHANNEL														
1+00.00			209.5											
1+21.20			234.4					164.5						
1+38.00			362.0					138.1						
1+50.00			374.7					132.5						
1+61.00			376.1					150.1						
1+74.20			340.9					183.5						
1+87.70			179.6					179.3						
1+99.00			125.7					108.9						
SHRINKAGE FACTOR		15%			TOTAL	417.9	566.2	1,283.5	-802.2	1,056.9	1,302.8	1,302.8	3,696.1	113.0
					ADJ. PLAN TOTAL	420.0	570.0	1,285.0	-805.0	1,060.0	1,305.0	1,305.0	3,700.0	113.0

BALANCE BETWEEN SIDES OF CREEK

LOCATION	20200100		20400800
	EARTH EXC.	EMBANKMENT	FURNISHED EXCAVATION
WEST	389	442	-112.00
EAST	177	838	-688.00
TOTAL	566	1280	-800.00

EARTHWORK GENERAL NOTES

ALL EARTHWORK QUANTITIES ARE CALCULATED BY THE METHOD OF AVERAGE END AREAS USING THE PLAN CROSS SECTIONS.

SHRINKAGE FACTOR, ASSUMED TO BE 15% FOR THIS PROJECT, ARE ESTIMATED FOR THE PURPOSE OF DETERMINING A BALANCE OF EARTHWORK. THE CONTRACTOR SHALL ESTIMATE HIS OWN SHRINKAGE FACTORS IN DETERMINING HIS EARTHWORK. NO PAYMENT WILL BE MADE ON EARTHWORK QUANTITIES DUE TO VARIATION IN THE SHRINKAGE FACTOR SINCE EARTHWORK IS MEASURED IN ITS FINAL POSITION.

RECOMMENDATIONS OUTLINED IN THE ROADWAY GEOTECHNICAL REPORT PREPARED BY TESTING SERVICE CORPORATION, DATED AUGUST 10, 2007 WERE USED IN PREPARATION OF THE ROADWAY PLANS AND RELATED EARTHWORK CALCULATIONS.

AS OUTLINED IN THE ROADWAY GEOTECHNICAL REPORT, THE TOPSOIL THICKNESS WAS ESTIMATED AT 3-8 INCHES. SIX (6) INCHES WAS ASSUMED ON THIS PROJECT FOR THE PURPOSE OF CALCULATING TOPSOIL STRIPPING QUANTITIES.

IF UNDERCUTS ARE ENCOUNTERED, UNDERCUTS WILL BE PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. AFTER TOPSOIL STRIPPING AND VEGETATION CLEARING AND PRIOR TO UNDERCUTTING, THE SUBGRADE WILL BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER IN ACORDANCE WITH THE IDOT SUBGRADE STABILITY MANUAL TO DETERMINE REMEDIAL TREATMENT.

TESTING OF SUBGRADES AND EMBANKMENTS WILL BE REQUIRED. TESTING REQUIREMENTS WILL BE PER THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND THE SUBGRADE STABILITY MANUAL. IF PROOF ROLLS ARE REQUIRED BY THE ENGINEER, THE COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

EARTH EXCAVATION SHALL BE PAID FOR ONLY ONCE, REGARDLESS OF STAGING OR SEQUENCING OF CONTRACTORS OPERATIONS THAT REQUIRE STOCKPILING OF MATERIALS FOR LATER USE, REDISTRIBUTION AND RESPREADING IN SHOULDERS AND CONSTRUCTING OF EMBANKMENTS. FURNISHED EXCAVATION IS REQUIRED BASED ON THE ASSUMPTIONS FROM THE FURNISHED EXCAVATION TABLE. UNDERCUT QUANTITIES HAVE BEEN CALCULATED BASED ON THE FOLLOWING UNDERCUT RECOMMENDATIONS:

STA. 15+35 TO BRIDGE: UNDERCUT 12" AND REPLACE WITH 18" AGG SUBGRADE.
BRIDGE TO STA. 20+32: UNDERCUT 12" AND REPLACE WITH 18" AGG SUBGRADE.
STA. 20+32 TO STA. 23+50: NO SPECIAL TREATMENT SUGGESTED.
UNDERCUT DEPTHS BASED ON ASSUMPTION THAT FINAL SUBGRADE WILL BE ABOUT 1.5 FEET BELOW PROPOSED ROAD CENTERLINE ELEVATION.

FILE NAME = M:\Projects\2010\1020854_Boston\Bldg\Road\SHAS\SCHEDULE.dgn

WILLS BURKE KELSEY ASSOCIATES LTD. <small>116 West Main Street, Suite 201 St. Charles, Illinois 60114 (630) 443-7755</small>	USER NAME = #USER#	DESIGNED - DPB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN - NDP	REVISED -		5355	04-00167-00-BR	DEKALB	88	16			
PLOT DATE = 7/6/2011	CHECKED - SBP	REVISED -	SCALE: SHEET NO. 16 OF 88 SHEETS STA. TO STA.			CONTRACT NO. 87491		FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

PAVEMENT SCHEDULE

LOCATION	OFF.	LENGTH	WIDTH OF ROADWAY - PROPOSED	31101100	35501308	40300200	40600300	40600625	40603080	40603335	42400200	44300200	48101500	48203009	48203021	50300300	60603800	X4240430	Z0001050	Z0062456
				SUBBASE GRANULAR MATERIAL, TYPE B	HOT-MIX ASPHALT BASE COURSE, 6"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	LEVELING BINDER (MACHINE METHOD), N50	HOT-MIX ASPHALT BINDER COURSE, MIX "D", N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	STRIP REFLECTIVE CRACK CONTROL TREATMENT	AGGREGATE SHOULDERS, TYPE B 6"	HOT-MIX ASPHALT SHOULDERS, 3"	HOT-MIX ASPHALT SHOULDERS, 6"	PROTECTIVE COAT	COMB. CONCRETE CURB AND GUTTER, TYPE B-6.12	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL	AGGREGATE SUBGRADE 12"	TEMPORARY PAVEMENT
		(FT)	(FT)	(SQ YD)	(SQ YD)	(TON)	(TON)	(TON)	(TON)	(TON)	(SQ FT)	(FOOT)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ FT)	(FOOT)	(SQ FT)	(SQ YD)	(SQ YD)
MAINLINE																				
13+19.00 - 13+50.00	LT/RT	31	50.2 - 50.7			0.11	0.35	7.3		14.7		19.0								
13+50.00 - 14+00.00		50	50.7 - 37.3			0.22	0.73	15.2		30.5		50.0								
14+00.00 - 14+50.00		50	37.4 - 35.9	1.1		0.14	0.46	9.6	5.0	19.1		50.0								
14+50.00 - 15+00.00		50	35.9 - 33.6	6.3	8.2	0.12	0.39	8.1	6.0	16.2		50.0	21.7							
15+00.00 - 15+26.00		26	33.6 - 32.4	5.9	53.6	0.06	0.19	4.0	12.0	8.0		26.0	21.0							
15+26.00 - 15+50.00		24	32.4 - 35.4	1.5	49.9	0.06	0.17	3.6	65.0	7.2		33.0	21.2					4.0		
15+50.00 - 16+00.00		50	35.4 - 53.4	11.0		0.36	0.54	11.4	96.0	22.8	98.4	150.0	25.9			154.4		136.0		1.0
16+00.00 - 16+50.00		50	53.4 - 52.2	8.7		0.43	0.59	12.3	74.0	24.6	342.3	150.0		15.9	15.7	655.7	26.9	57.8	175.0	8.0
16+50.00 - 16+87.20		37.2	52.2 - 53.8	3.0		0.32	0.43	9.0	13.0	18.1		114.0		11.6	12.6	528.5	100.0	308.1	132.0	14.0
16+87.20 - 17+00.00		12.8	53.8	2.8		0.13								1.9	4.4	145.9	74.4	129.1	88.0	13.0
17+00.00 - 17+16.20		16.2	53.8			0.19								0.3	0.8	204.8		188.8	130.0	5.0
BRIDGE																				
18+49.87 - 18+79.87		30	53.8	5.6		0.00										1512.0				8.0
18+79.87 - 19+00.00		20.13	53.8 - 50.3	4.7		0.30			51.0							349.4		317.3	209.0	
19+00.00 - 19+50.00		50	50.3 - 47.7	11.7		0.17	0.23	4.8	71.0	9.6	1.1	60.0		2.1	5.2	286.2	40.3	171.3	71.0	11.0
19+50.00 - 20+00.00		50	47.7 - 46.0	3.0		0.42	0.54	11.4	165.0	22.9	400.0	150.0		6.1	6.8	648.8	100.0		173.0	10.0
20+00.00 - 20+50.00		50	46.0 - 24.0			0.40	0.52	10.9	138.0	21.8	278.6	150.0	3.6	18.8	14.1	437.3	70.1		167.0	28.0
20+50.00 - 21+00.00		50	24			0.19	0.35	7.4	78.0	14.7		99.0	34.8	4.9	5.5				54.0	30.0
21+00.00 - 21+50.00		50	24			0.08	0.27	5.6	20.0	11.2		50.0	33.4							20.0
21+50.00 - 21+80.00		30	24			0.08	0.27	5.6	3.0	11.2		50.0	37.4							
21+80.00 - 21+80.00		0				0.05	0.16	3.4		6.7		30.0	35.5							
ENTRANCES																				
15+26.00	LT					0.23	0.22			12.5										
TOTAL				66.0	112.0	5.0	6.4	129.6	797.0	272.0	1121.0	1231.0	235.0	62.0	66.0	4923.0	412.0	1173.0	1339.0	148.0

FILE NAME = M:\Projects\2010\100854_Bethany\B\Cadd\Cv\1\Dgn\Sh\PAVEMENTSCHEDULE.dgn

WILLS BURKE KELSEY ASSOCIATES LTD. <small>110 West Main Street, Suite 201 St. Charles, Illinois 60174 (830) 443-7755</small>	USER NAME = #USER#	DESIGNED - DPB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - SBP	REVISED -		SCALE:	SHEET NO. 17 OF 88 SHEETS	STA.	TO STA.	5355	04-00167-00-BR	DEKALB	88	17
	PLOT DATE = 7/8/2011	DATE - 7/8/11	REVISED -						CONTRACT NO. 87491				
												FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT	

PAVEMENT REMOVAL SCHEDULE

LOCATION	OFF.	REMARKS	40600982	40600990	44000100	44000158	44000200	44201777	44201781	X4430200
			HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, 2-1/4"	DRIVEWAY PAVEMENT REMOVAL	CLASS D PATCHES, TYPE II, 11 INCH	CLASS D PATCHES, TYPE III, 11 INCH	REFLECTIVE CRACK CONTROL TREATMENT, SPECIAL
			(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(FOOT)
MAINLINE										
13+19.00 - 14+00.00	LT/RT		25.1	37.6		888.0				100.0
13+50.00 - 14+00.00						75.8				80.0
14+00.00 - 14+50.00						95.7				66.0
14+50.00 - 15+00.00						43.0				58.0
15+00.00 - 15+26.00										56.0
15+26.00 - 15+50.00					1.1					54.0
15+50.00 - 16+00.00					11.1					
16+00.00 - 16+50.00					11.2					
16+50.00 - 16+87.20					8.3					
16+87.20 - 17+00.00					38.8					
17+00.00 - 17+16.20			17.0	25.5	52.7					
BRIDGE										
18+49.87 - 18+79.87			17.0	25.5	27.2					
18+79.87 - 19+00.00					92.3					
19+00.00 - 19+50.00					4.5					44.0
19+50.00 - 20+00.00					11.3					44.0
20+00.00 - 20+50.00					11.2					
20+50.00 - 21+00.00					5.5					
21+00.00 - 21+50.00						48.5				44.0
21+50.00 - 21+80.00			12.2	18.2		133.1				
PATCHES										
13+50.00 - 14+00.00	LT/RT								22.3	
14+00.00 - 14+50.00									17.9	
15+00.00 - 15+26.00								14.6		
15+26.00 - 15+50.00								12.9		
16+00.00 - 16+50.00		STORM SEWER						12.1	18.7	
19+50.00 - 20+00.00		STORM SEWER						14.7		
DRIVEWAYS										
14+50.00 - 15+00.00							11.6			
15+00.00 - 15+26.00	LT	HMA					50.8			
15+26.00 - 15+50.00							44.2			
TOTAL			72.0	107.0	276.0	1366.0	107.0	55.0	59.0	546.0

FILE NAME = M:\Projects\2010\080854_Bethel\g\roads\Civil\g\SHASCHEDULE10.dgn

WBK WILLS BURKE KELSEY ASSOCIATES LTD.
 115 West Main Street, Suite 201
 St. Charles, Illinois 60174
 (630) 443-7755

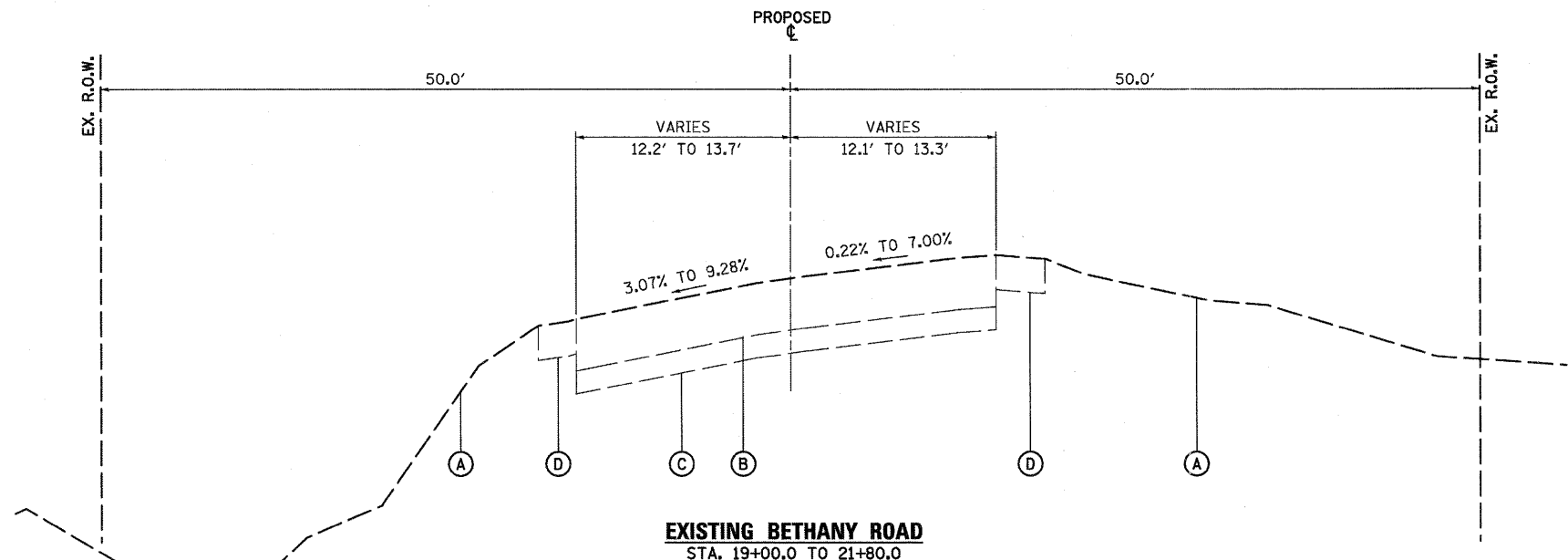
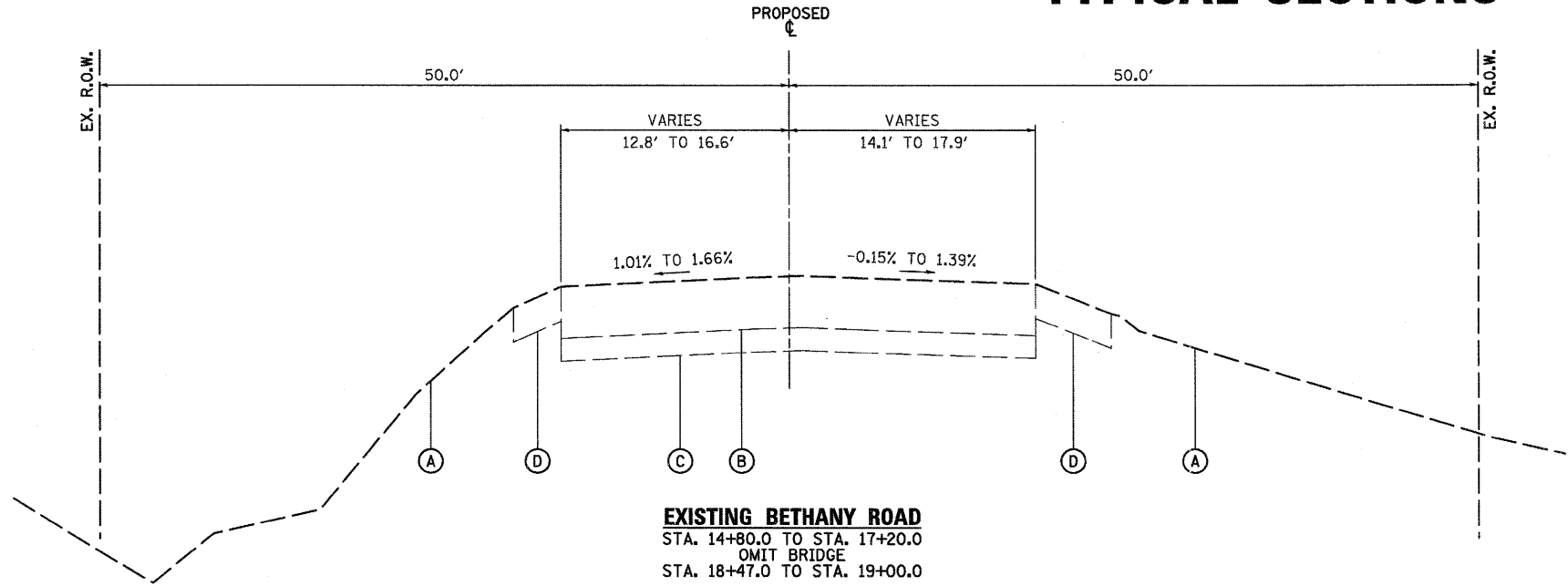
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PLOT DATE = 7/6/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES	
SCALE:	SHEET NO. 18 OF 88 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	18
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

TYPICAL SECTIONS



LEGEND, EXISTING

- (A) EXISTING GROUND
- (B) EXISTING BIT. CONC. PAVEMENT (8.8"-10.8")
- (C) EXISTING AGGREGATE BASE (UNKNOWN THICKNESS)
- (D) EXISTING AGGREGATE SHOULDER

EXISTING PAVEMENT NOTES

1. INFORMATION ON PAVEMENT AND BASE COURSE THICKNESS WAS TAKEN FROM INFORMATION DOCUMENTED IN THE SUBSURFACE INVESTIGATION REPORT PREPARED BY TESTING SERVICE CORPORATION DATED AUGUST 10, 2007. SEE ADDITIONAL NOTE BELOW.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE THICKNESS OF THE EXISTING PAVEMENTS TO BE REMOVED AND THE EXTENT TO WHICH IT WAS REINFORCED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF VARIATIONS FROM THE ASSUMED THICKNESS SHOWN ON THE PLANS OR FOR VARIATIONS IN THE AMOUNT OF REINFORCEMENT.

FILE NAME = \\NA\Projects\2010\180054 BethanyRd\cadd\Civil\Drawn\Sh1\Typical.dgn

	USER NAME = #USER# DESIGNED - DPB DRAWN - NDP CHECKED - SBP PLOT DATE = 7/6/2011			REVISED - REVISED - REVISED - REVISED -			STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			TYPICAL SECTIONS EXISTING			F.A. RTE. 5355	SECTION 04-00167-00-BR	COUNTY DEKALB	TOTAL SHEETS 88	SHEET NO. 19
	SCALE: SHEET NO. 19 OF 88 SHEETS STA. TO STA.						CONTRACT NO. 87491 FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT										

TYPICAL SECTIONS

LEGEND, EXISTING

- (A) EXISTING GROUND
- (B) EXISTING BIT. CONC. PAVEMENT (8.8"-10.8")
- (C) EXISTING AGGREGATE BASE (UNKNOWN THICKNESS)
- (D) EXISTING AGGREGATE SHOULDER
- (E) EXISTING PAVEMENT (TO BE REMOVED)
- (F) EXISTING PAVEMENT (TO BE SURFACE MILLED)

LEGEND, PROPOSED

- (1) PROPOSED GRADE
- (2) 1 1/2" HMA SURFACE COURSE, MIX "D", N50
- (3) 8 3/4" HMA BINDER COURSE, IL-19.0, N50
- (4) HMA BINDER COURSE, IL-19.0, N50, VARIABLE DEPTH
- (5) AGGREGATE SHOULDERS, TYPE B SPECIAL
- (6) TYPE B6.12 CURB AND GUTTER (11" DEPTH)
- (7) AGGREGATE SUBGRADE, 12"
- (8) AGGREGATE SUBGRADE, VARIABLE DEPTH (UNDER CUTS)
- (9) STRUCTURAL EMBANKMENT (FURNISHED EXCAVATION)
- (10) TOPSOIL PLACEMENT, 4" / SEEDING / MULCH
- (11) TOPSOIL STRIPPING, 4"
- (12) MULTI-USE PATH (PCC SIDEWALK 5")
- (13) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (14) STRIP REFLECTIVE CRACK CONTROL TREATMENT (SYSTEM A)
- (15) FULL DEPTH SAW CUT (INCLUDED IN COST OF REMOVAL ITEM)
- (16) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (17) SUBBASE GRANULAR MATERIAL, TYPE B 6"
- (18) HMA SHOULDERS, 3"
- (19) HMA SHOULDERS, 6"
- (20) 3/4" HMA LEVELING BINDER, N50
- (21) GEOTECHNICAL FABRIC

SOILS REPORT PAVEMENT CORE RESULTS

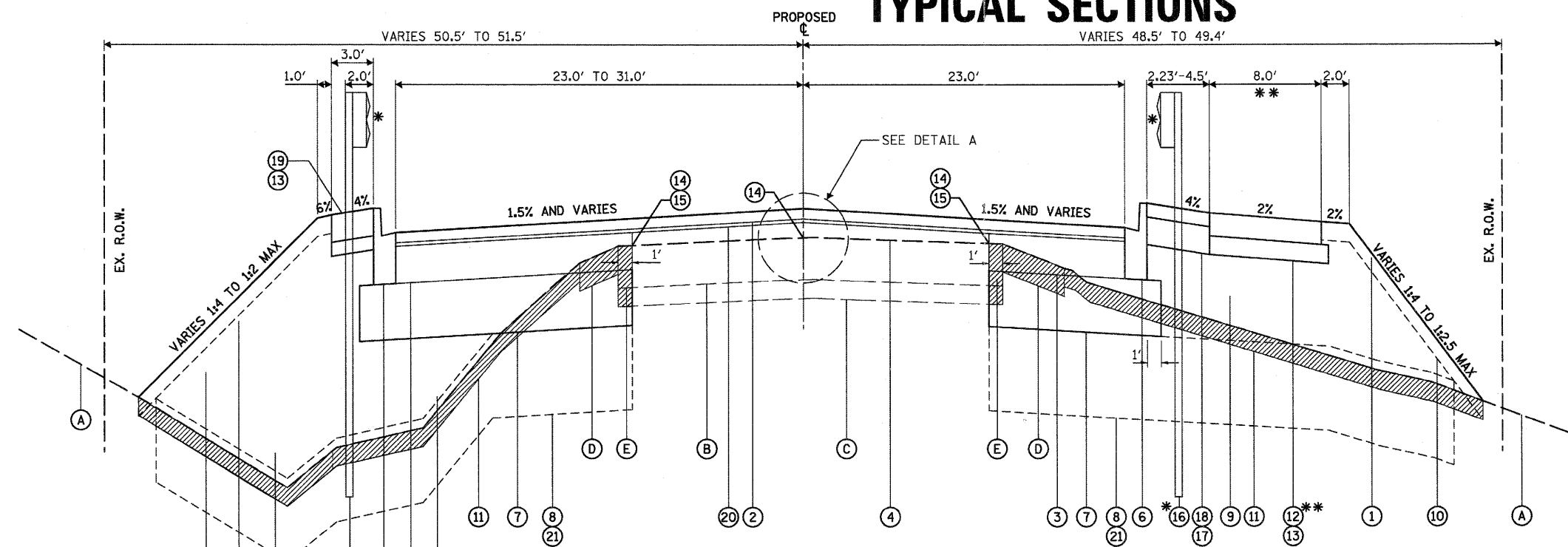
Sta. 12+96 bituminous concrete thickness = 8.8 inches.
Sta. 22+03 bituminous concrete thickness = 10.8 inches.

SOILS REPORT RECOMMENDATIONS

Sta. 15+35 to BRIDGE: Undercut 12" and replace with 18" Agg. Subgrade.
BRIDGE to Sta. 20+32: Undercut 12" and replace with 18" Agg. Subgrade.
Sta. 20+32 to Sta. 23+50: No special treatment suggested.
Undercut depths based on assumption that final subgrade will be about 1.5 feet below proposed road centerline elevation.

STRUCTURAL PAVEMENT DESIGN

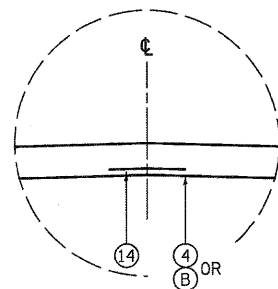
STRUCTURAL DESIGN TRAFFIC: Year 2017
PV = 16,320 SU = 340 MU = 340
ROAD/STREET CLASSIFICATION: II
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
P = 96 S = 2 M = 2
TRAFFIC FACTOR: Actual TF = 1.9 AC Type = HMA
Minimum TF = NA
PG GRADE: Surface = PG 64-22 Binder = PG 64-22
SUBGRADE SUPPORT RATING:
SSR = POOR



BETHANY ROAD
STA. 15+76.5 TO STA. 16+87.2
OMIT BRIDGE
STA. 18+79.7 TO STA. 19+95.2

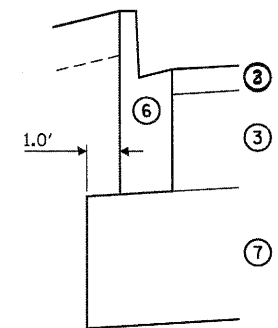
* GUARD RAIL: STA. 16+11.3 TO STA. 19+55.5 LEFT (OMIT BRIDGE)
STA. 16+11.2 TO STA. 19+55.5 RIGHT (OMIT BRIDGE)

** 8' MULTI-USE PATH RIGHT SIDE ONLY STA. 16+72.8 TO STA. 18+94.9

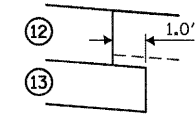


DETAIL A

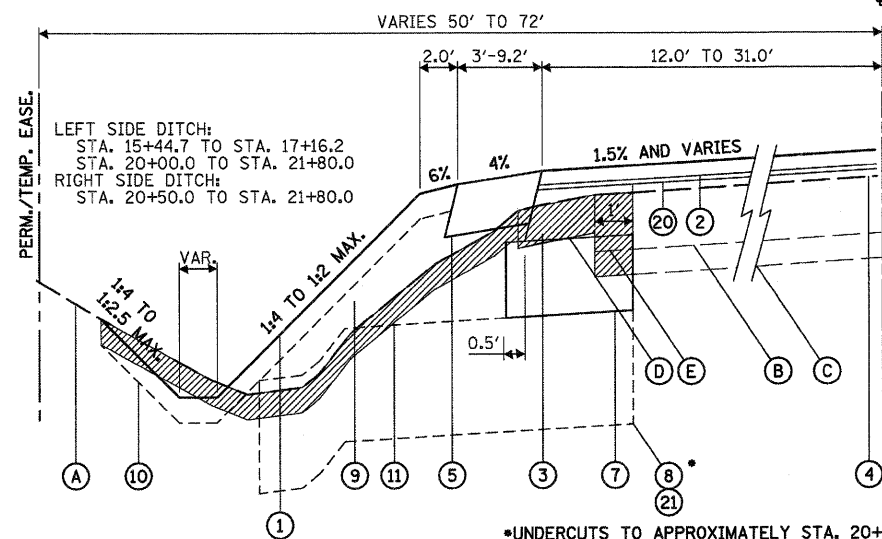
STRIP REFLECTIVE CRACK CONTROL TREATMENT SHALL BE SYSTEM A PER SEC. 443 OF THE STANDARD SPECIFICATIONS. THE STRIP REFLECTIVE CRACK CONTROL TREATMENT SHALL BE PLACED ON THE EXISTING CENTERLINE JOINT, EDGE JOINTS OF THE HMA WIDENING, AND THE EDGES OF EXISTING AND PROPOSED TRENCH PATCHES.



**BASE STAGGER DETAIL
ADJACENT TO CURB & GUTTER**



**BASE STAGGER DETAIL
ADJACENT TO MULTI-USE PATH**



SUPERELEVATION:
LEFT SIDE FROM STA. 19+92 @ -2% TO STA. 20+88 @ -5%
RIGHT SIDE FROM STA. 18+80 @ -1.5% TO STA. 20+88 @ +5%
(BETWEEN STA. 20+88 AND STA. 21+80, TRANSITION TO THE EXISTING CROSS SLOPE)

BETHANY ROAD
STA. 14+80.0 TO STA. 15+76.5
STA. 19+95.2 TO STA. 21+80.0

*UNDERCUTS TO APPROXIMATELY STA. 20+32.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S)	HMA SURFACE	HMA BINDER	HMA LEVELING BINDER	HMA SHOULDER	HMA BASE COURSE (DRIVEWAYS)	HMA SURFACE FOR DRIVEWAYS & PATH	TEMP. PAVEMENT STAGE 1 **	TEMPORARY RAMP	CLASS D PATCHES
PG GRADE	PG 64-22	PG 64-22	PG 64-22	PG 58-22	PG 58-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0 @ N50	4.0 @ N50	4.0 @ N50	3.0 @ N50	4.0 @ N50	4.0 @ N50	4.0 @ N50	4.0 @ N50	4.0 @ N50
MIXTURE COMPOSITION:	IL 9.5 OR 12.5	IL 19.0	IL 9.5 OR 12.5	IL 9.5 OR 12.5	IL 19.0	IL 12.5 OR 19.0	IL 19.0	IL 19.0	IL 19.0
FRICTION AGGREGATE	MIXTURE D	N/A	N/A	N/A	N/A	MIXTURE C	MIXTURE D	MIXTURE D	MIXTURE D

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB/SQ YD/IN.

* IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

** IF CONTRACTOR CHOOSES TO USE CONCRETE FOR TEMPORARY PAVEMENT THE THICKNESS SHALL BE 10 INCHES.

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PLOT DATE = 7/6/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
PROPOSED**

SCALE: SHEET NO. 20 OF 88 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	20
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

TYPICAL SECTIONS

LEGEND, EXISTING

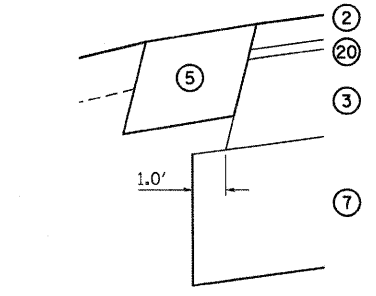
- (A) EXISTING GROUND
- (B) EXISTING BIT. CONC. PAVEMENT (8.8"-10.8")
- (C) EXISTING AGGREGATE BASE (UNKNOWN THICKNESS)
- (D) EXISTING AGGREGATE SHOULDER
- (E) EXISTING PAVEMENT (TO BE REMOVED)
- (F) EXISTING PAVEMENT (TO BE SURFACE MILLED)

LEGEND, PROPOSED

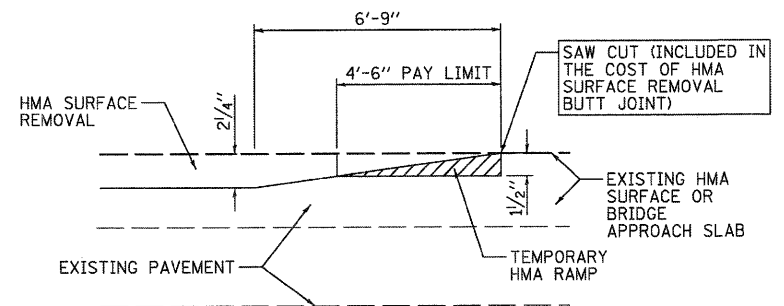
- (1) PROPOSED GRADE
- (2) 1 1/2" HMA SURFACE COURSE, MIX "D", N50
- (3) 8 3/4" HMA BINDER COURSE, IL-19.0, N50
- (4) HMA BINDER COURSE, IL-19.0, N50, VARIABLE DEPTH
- (5) AGGREGATE SHOULDERS, TYPE B SPECIAL
- (6) TYPE B6.12 CURB AND GUTTER (11" DEPTH)
- (7) AGGREGATE SUBGRADE, 12"
- (8) AGGREGATE SUBGRADE, VARIABLE DEPTH (UNDER CUTS)
- (9) STRUCTURAL EMBANKMENT (FURNISHED EXCAVATION)
- (10) TOPSOIL PLACEMENT, 4" / SEEDING / MULCH
- (11) TOPSOIL STRIPPING, 4"
- (12) MULTI-USE PATH (PCC SIDEWALK 5")
- (13) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (14) STRIP REFLECTIVE CRACK CONTROL TREATMENT (SYSTEM A)
- (15) FULL DEPTH SAW CUT (INCLUDED IN COST OF REMOVAL ITEM)
- (16) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (17) SUBBASE GRANULAR MATERIAL, TYPE B 6"
- (18) HMA SHOULDERS, 3"
- (19) HMA SHOULDERS, 6"
- (20) 3/4" HMA LEVELING BINDER, N50
- (21) GEOTECHNICAL FABRIC

SOILS REPORT RECOMMENDATIONS

Sta. 15+35 to BRIDGE: Undercut 12" and replace with 18" Agg. Subgrade.
 BRIDGE to Sta. 20+32: Undercut 12" and replace with 18" Agg. Subgrade.
 Sta. 20+32 to Sta. 23+50: No special treatment suggested.
 Undercut depths based on assumption that final subgrade will be about 1.5 feet below proposed road centerline elevation.



**SUBBASE STAGGER DETAIL
 ADJACENT TO HMA SHOULDER**

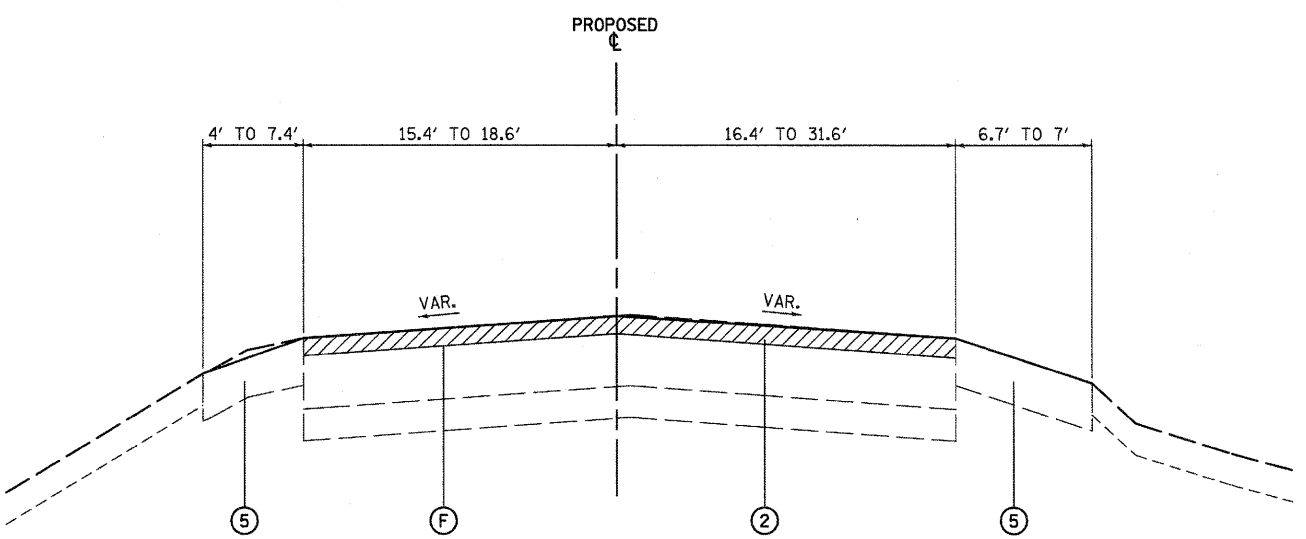


TYPICAL TEMPORARY RAMP

HMA CONSTRUCTED TEMPORARY RAMP
 (FOR BUTT JOINT AND HMA TAPER)

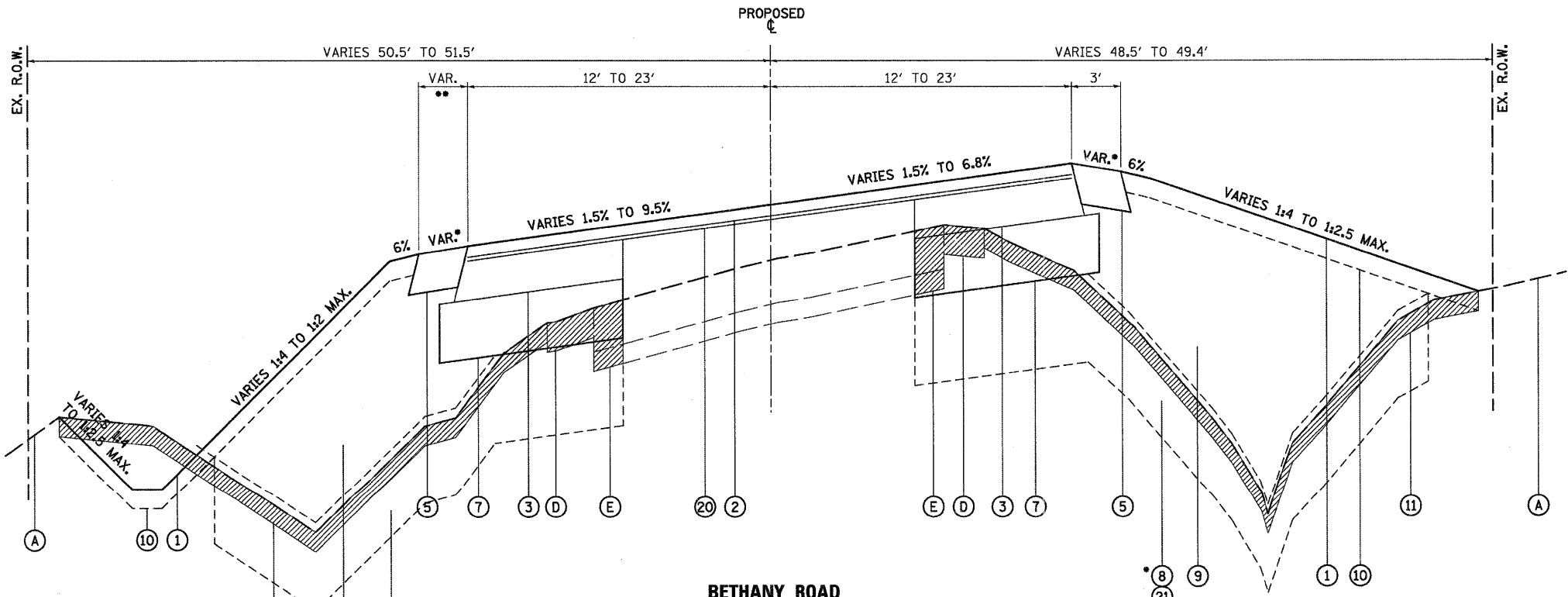
NOTES:

1. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
2. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
3. TAPER THE TEMP. RAMP AT A RATE OF 3'-0" PER 1 INCH OF MILLING THICKNESS.
4. SEE ART. 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".



BETHANY ROAD - HMA TRANSITION

STA. 13+19.00 TO STA. 15+44.50
 STA. 20+64.40 TO STA. 21+80.00



BETHANY ROAD STA. 19+95.2 TO STA. 21+80.0

*UNDERCUTS TO APPROXIMATELY STA. 20+32.

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 116 West Main Street, Suite 201
 St. Charles, Illinois 60174
 (830) 443-7755

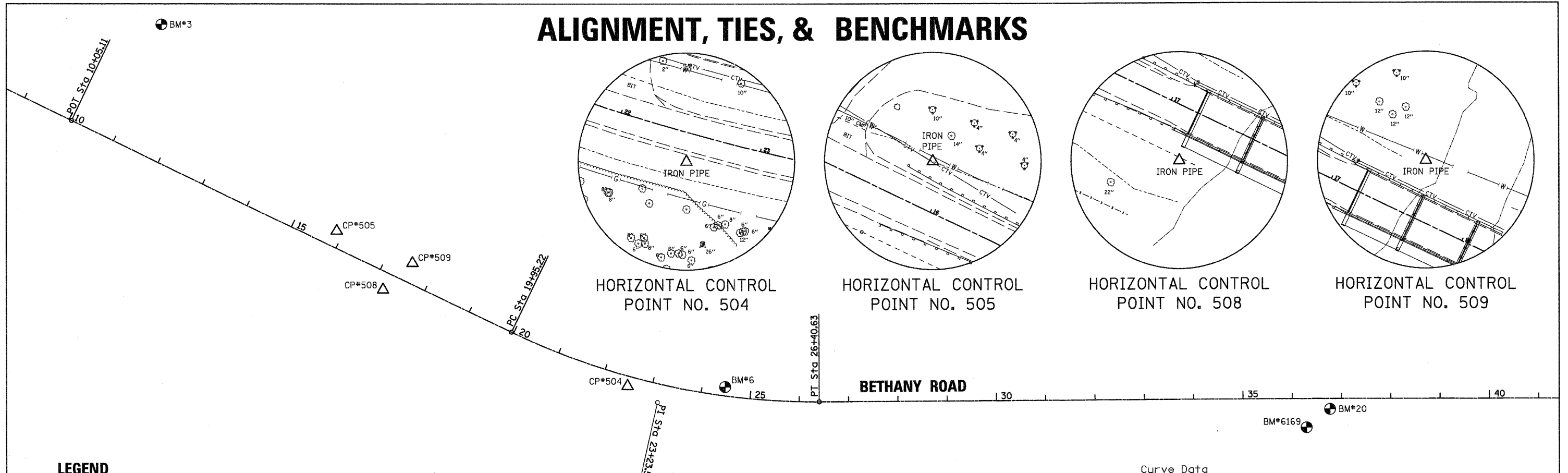
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	DATE - 7/8/11	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS PROPOSED	
SCALE:	SHEET NO. 21 OF 88 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	21
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

ALIGNMENT, TIES, & BENCHMARKS



LEGEND

- = BENCH MARK LOCATION
- △ = HORIZONTAL CONTROL POINT LOCATION

Curve Data

Curve BRPR-2
 P.I. Station 23+23.50 N 1,930,479.10 E 875,018.19
 Delta = 25° 48' 58" (LT)
 Degree = 4° 00' 00"
 Tangent = 328.28'
 Length = 645.41'
 Radius = 1432.40'
 External = 37.14'
 Long Chord = 639.88'
 Mid. Ord. = 36.39'
 P.C. Station 19+95.22 N 1,930,621.18 E 874,722.25
 P.T. Station 26+40.63 N 1,930,480.08 E 875,346.47
 C.C. N 1,931,912.48 E 875,342.19

HORIZONTAL CONTROL POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
504	1930512.507	874957.604		BRPR	22+52.33	19.433' RT	IRON PIPE WITH CAP
505	1930827.242	874367.766		BRPR	15+86.47	32.347' LT	IRON PIPE WITH CAP
508	1930707.601	874461.485		BRPR	17+22.74	34.948' RT	IRON PIPE WITH CAP
509	1930761.597	874521.445		BRPR	17+53.41	39.679' LT	IRON PIPE WITH CAP

SURVEY WORK POINTS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1	1931132.221	873798.018	841.610	BRPR	9+40.85	60.700' LT	PK NAIL IN PATH
7	1930651.934	874607.578	837.809	BRPR	18+78.53	21.904' RT	SURVEY POINT, HUB
11	1930549.928	874839.563	839.985	BRPR	21+30.14	19.898' RT	SURVEY POINT, HUB
13	1930508.161	875297.651	840.941	BRPR	25+90.94	27.378' LT	SURVEY POINT, HUB
15	1930451.320	875578.616	842.702	BRPR	28+72.69	29.457' RT	PK NAIL NORTH OF ISLAND

CURVE POINT NUMBERS

CHAIN	CURVE	PI	CC	PC	PT
BRPR	BRPR-2	210	211	212	213

BENCH MARKS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
3	1931244.621	874012.450	841.927	BRPR	10+85.52	254.833' LT	IRON PIPE WITH CAP
6	1930510.202	875155.480	840.672	BRPR	24+46.75	17.750' LT	IRON PIPE WITH CAP
20	1930462.241	876382.498	839.747	BRPR	36+76.60	20.940' RT	IRON PIPE WITH CAP
6169	1930424.741	876335.018	836.485	BRPR	36+29.01	58.298' RT	CHISLED 'X' IN CONCRETE

REFERENCE TIES

POINT	CHAIN	STATION	OFFSET	DESCRIPTION

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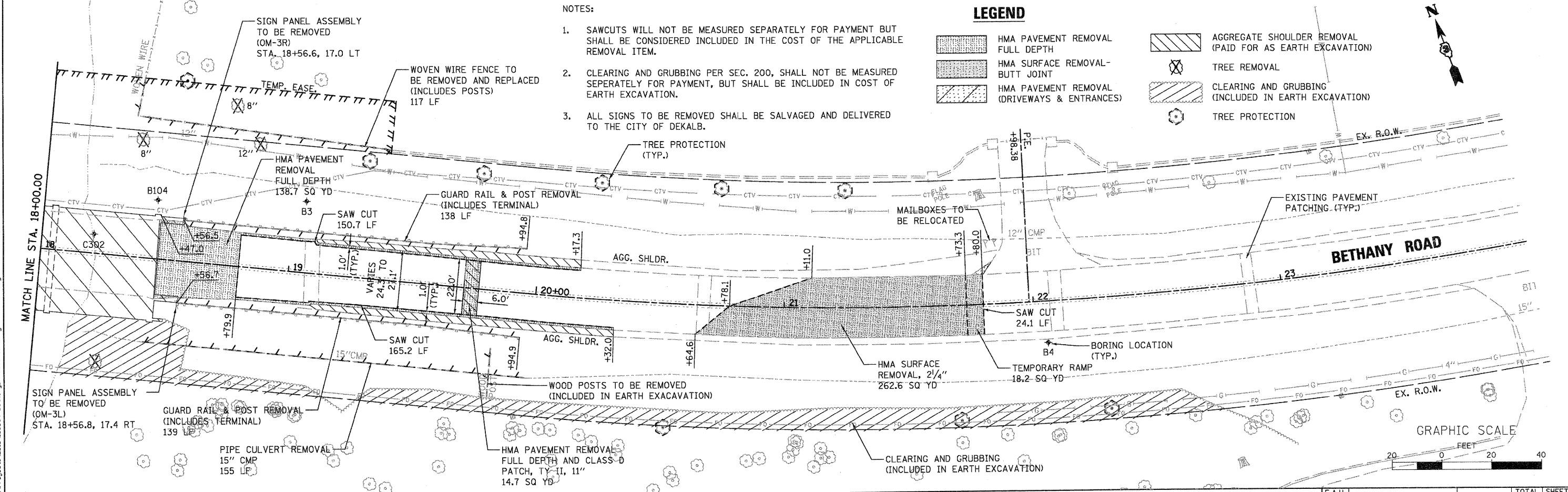
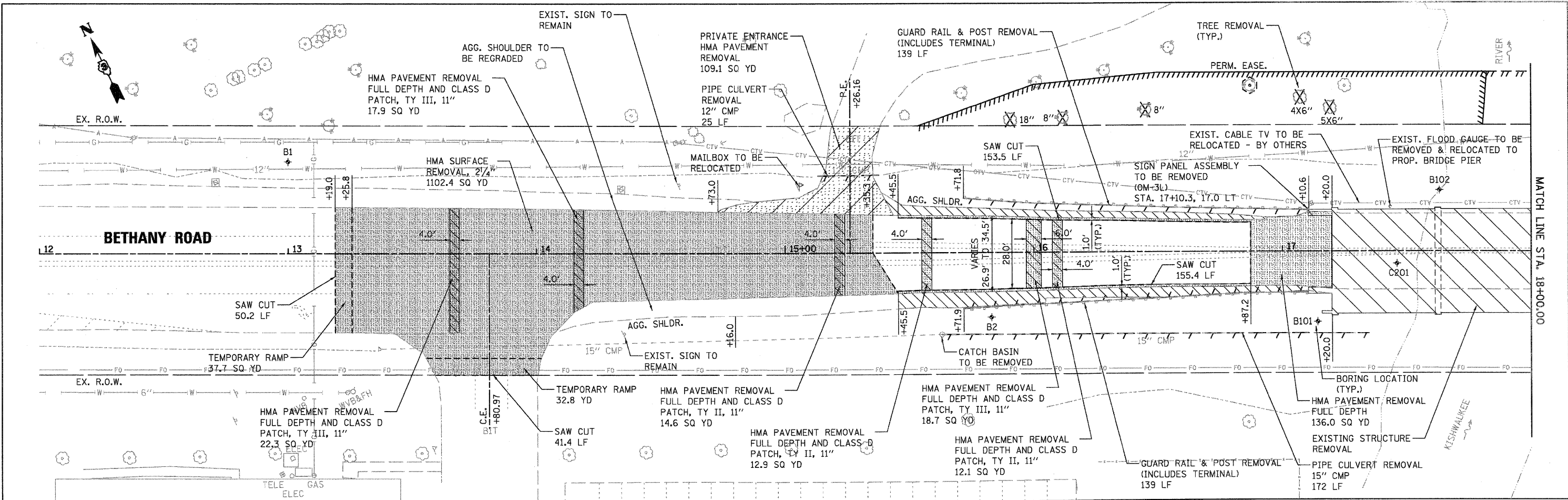
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 118 West Main Street, Suite 201
 St. Charles, Illinois 60174

USER NAME = nparris	DESIGNED - DPB	REVISED -
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PLOT DATE = 7/6/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES & BENCHMARKS

SCALE:	SHEET NO. 22 OF 88 SHEETS	STA.	TO STA.	F.A.U. RTE. 5355	SECTION 04-00167-00-BR	COUNTY DEKALB	TOTAL SHEETS 88	SHEET NO. 22
				CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT								



NOTES:

- SAWCUTS WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE APPLICABLE REMOVAL ITEM.
- CLEARING AND GRUBBING PER SEC. 200, SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT, BUT SHALL BE INCLUDED IN COST OF EARTH EXCAVATION.
- ALL SIGNS TO BE REMOVED SHALL BE SALVAGED AND DELIVERED TO THE CITY OF DEKALB.

LEGEND

- | | | | |
|--|--|--|---|
| | HMA PAVEMENT REMOVAL FULL DEPTH | | AGGREGATE SHOULDER REMOVAL (PAID FOR AS EARTH EXCAVATION) |
| | HMA SURFACE REMOVAL-BUTT JOINT | | TREE REMOVAL |
| | HMA PAVEMENT REMOVAL (DRIVEWAYS & ENTRANCES) | | TREE PROTECTION |
| | | | CLEARING AND GRUBBING (INCLUDED IN EARTH EXCAVATION) |



 WILLS BURKE KELSEY ASSOCIATES LTD. 118 West Main Street, Suite 201 St. Charles, Illinois 60174	USER NAME = nparis	DESIGNED - DPB	REVISED -
	PLOT SCALE = AS SHOWN	DRAWN - NDP	REVISED -
	PLOT DATE = 7/8/2011	CHECKED - SBP	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

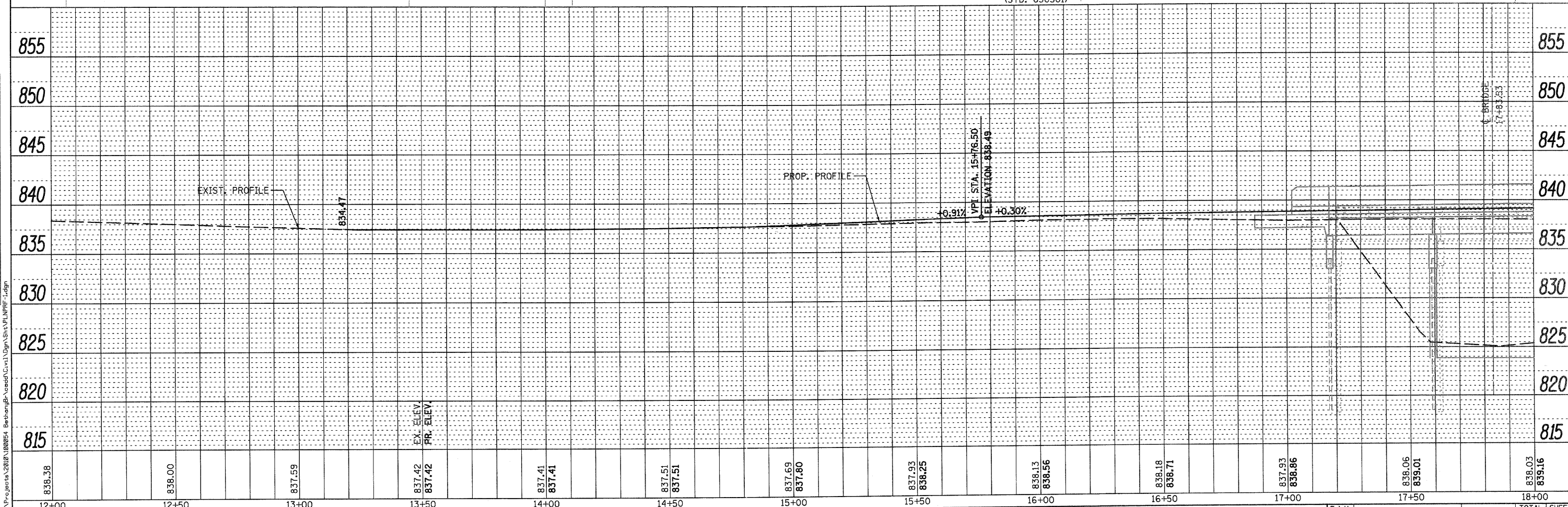
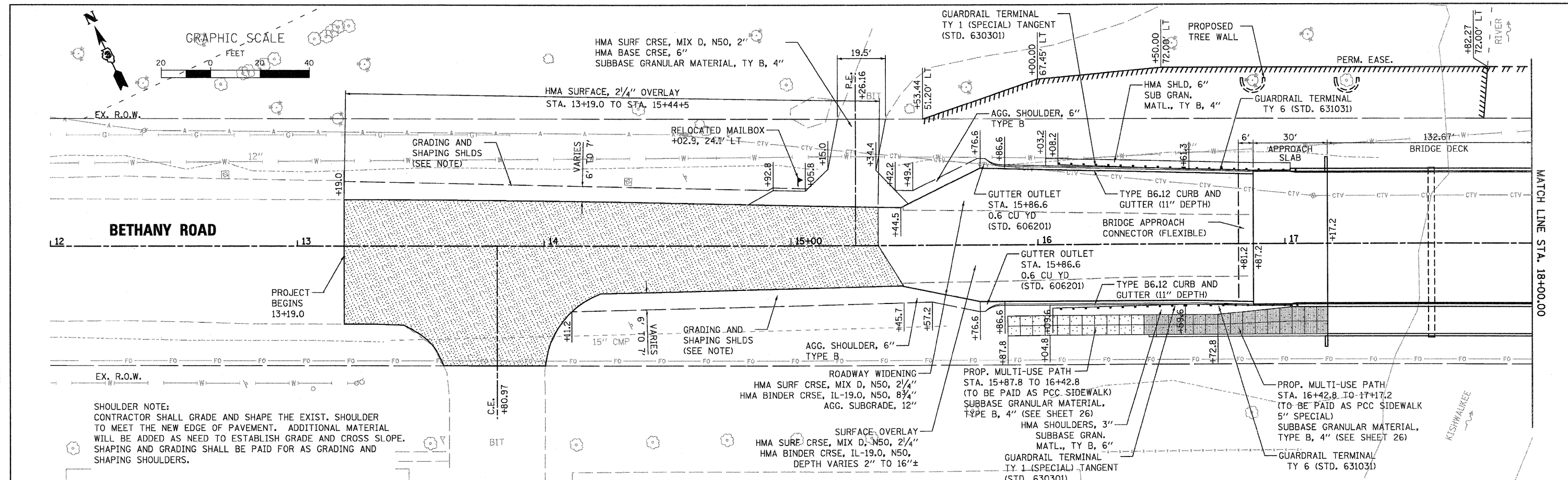
**EXISTING CONDITIONS
AND REMOVAL PLAN**

SCALE: AS SHOWN SHEET NO. 23 OF 88 SHEETS STA. 13+19.00 TO STA. 21+80.00

F.A.U. RTE. 5355	SECTION 04-00167-00-BR	COUNTY DEKALB	TOTAL SHEETS 88	SHEET NO. 23
FED. ROAD DIST. NO. 3 (ILLINOIS) FED. AID PROJECT				
CONTRACT NO. 87491				

DATE	
BY	
REVIEWED	
PLANNED	
ALIGNED	
CHECKED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
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NO. 34	
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NO. 38	
NO. 39	
NO. 40	

DATE	
BY	
REVIEWED	
PLANNED	
CHECKED	
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NO. 40	



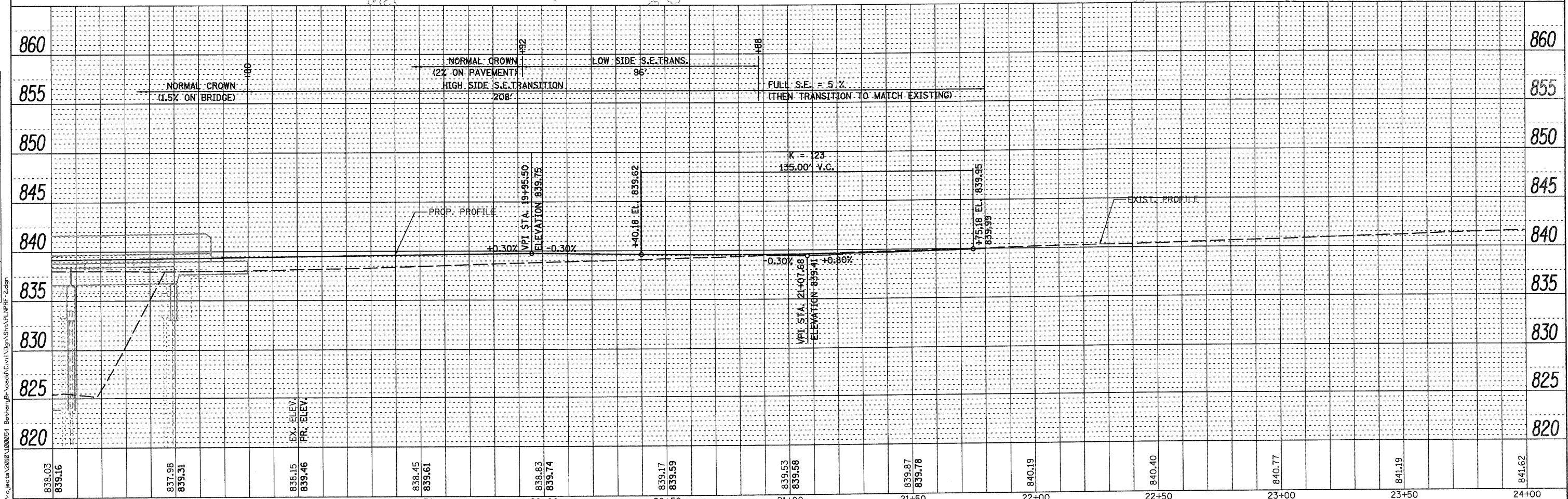
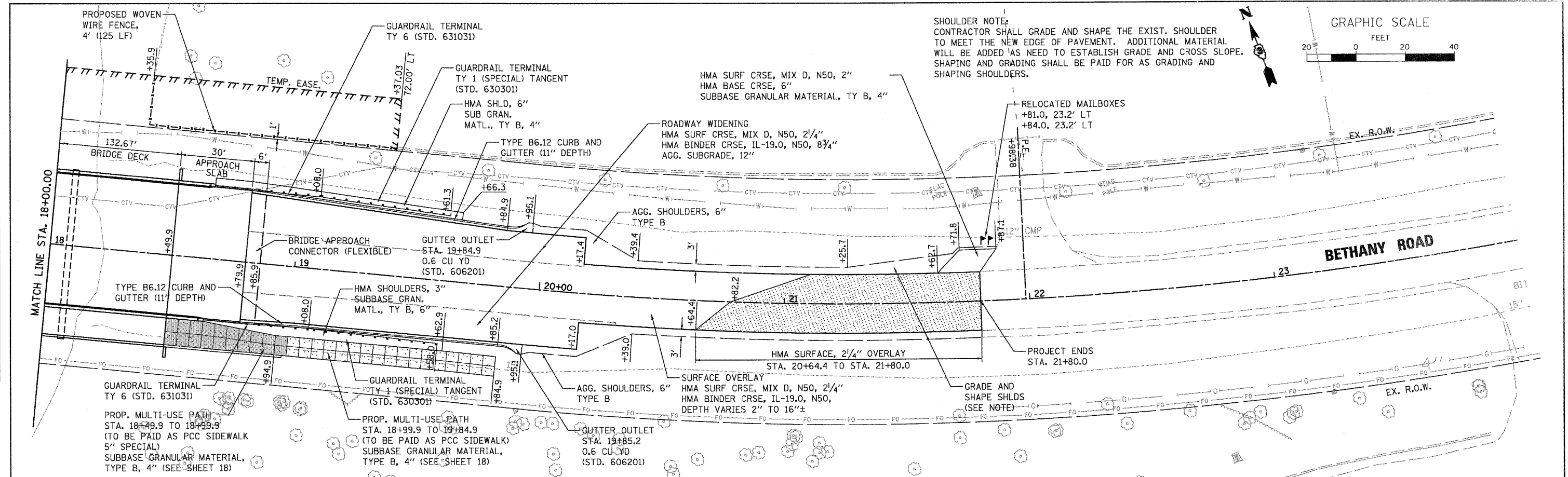
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PLOT SCALE = AS SHOWN	DRAWN - NDP	REVISED -		SCALE: AS SHOWN	SHEET NO. 24 OF 88 SHEETS	STA. 13+19.00 TO STA. 18+00.00	FED. ROAD DIST. NO. 3 [ILLINOIS] FED. AID PROJECT				
PLOT DATE = 7/6/2011	CHECKED - SBP	REVISED -		CONTRACT NO. 87491							
DATE - 7/8/11	DATE - 7/8/11	REVISED -									

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BY	DATE
REVISIONS	
ALIGNED	CHECKED
NOTE BOOK	NO. 1
PLANNED	CHECKED
FILE NAME	

BY	DATE
REVISIONS	
GRADES	CHECKED
STRUCTURE	NOTATION
NOTE BOOK	NO. 1
PROFILE	



838.03 839.16	837.98 839.31	838.15 839.46	838.45 839.61	838.83 839.74	839.17 839.59	839.53 839.58	839.87 839.78	840.19	840.40	840.77	841.19	841.62
18+00	18+50	19+00	19+50	20+00	20+50	21+00	21+50	22+00	22+50	23+00	23+50	24+00

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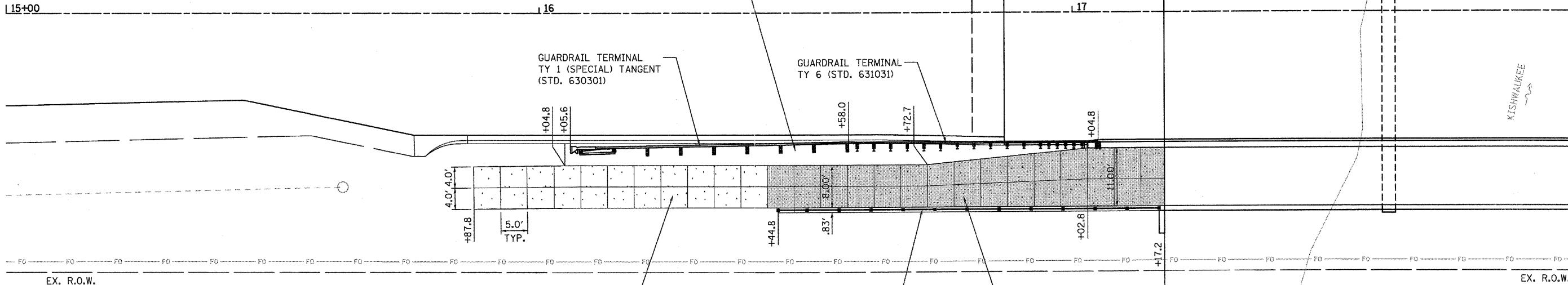
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE
SCALE: AS SHOWN	SHEET NO. 25 OF 88 SHEETS
STA. 18+00.00	TO STA. 21+80.00

F.A.U. RTE. 5355	SECTION 04-00167-00-BR	COUNTY DEKALB	TOTAL SHEETS 88	SHEET NO. 25
CONTRACT NO. 87491			FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT	

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BETHANY ROAD



NOTES:

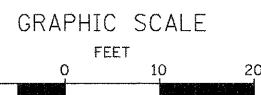
MULTI-USE PATH SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 424 OF THE STANDARD SPECIFICATIONS AND SHALL BE PAID AS PCC CONCRETE SIDEWALK 5", SPECIAL.

PROPOSED MULTI-USE PATH
STA. 15+87.8 TO 16+42.8
P.C.C. SIDEWALK
SUBGRADE GRAN.
MATERIAL, TY B, 4"

PROP. BRIDGE RAILING
W/ CURB
STA. 16+44.8 TO
STA. 17+16.2
(SEE SHEETS 27 & 28)

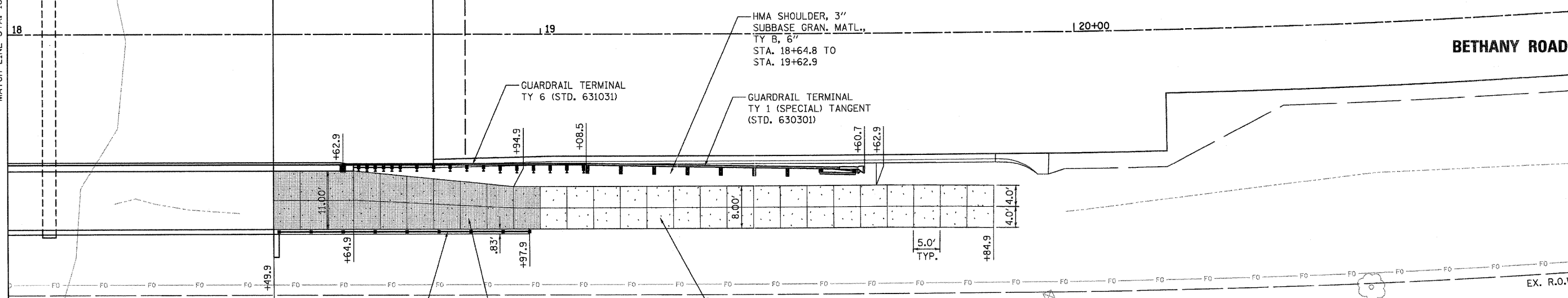
PROPOSED MULTI-USE PATH
STA. 16+42.8 TO 17+17.2
P.C.C. SIDEWALK
5", SPECIAL
SUBGRADE GRAN.
MATERIAL, TY B, 4"

SEE STRUCTURAL PLANS FOR SIDEWALK ON BRIDGE



MATCH LINE STA. 18+00.0

BETHANY ROAD



PROP. BRIDGE RAILING
W/ CURB
STA. 18+50.9 TO
STA. 18+97.9
(SEE SHEETS 27 & 28)

PROPOSED MULTI-USE PATH
STA. 18+49.9 TO 18+99.9
P.C.C. SIDEWALK
5", SPECIAL
SUBGRADE GRAN.
MATERIAL, TY B, 4"

PROPOSED MULTI-USE PATH
STA. 18+99.9 TO 19+87.9
P.C.C. SIDEWALK
SUBGRADE GRAN.
MATERIAL, TY B, 4"

WBK
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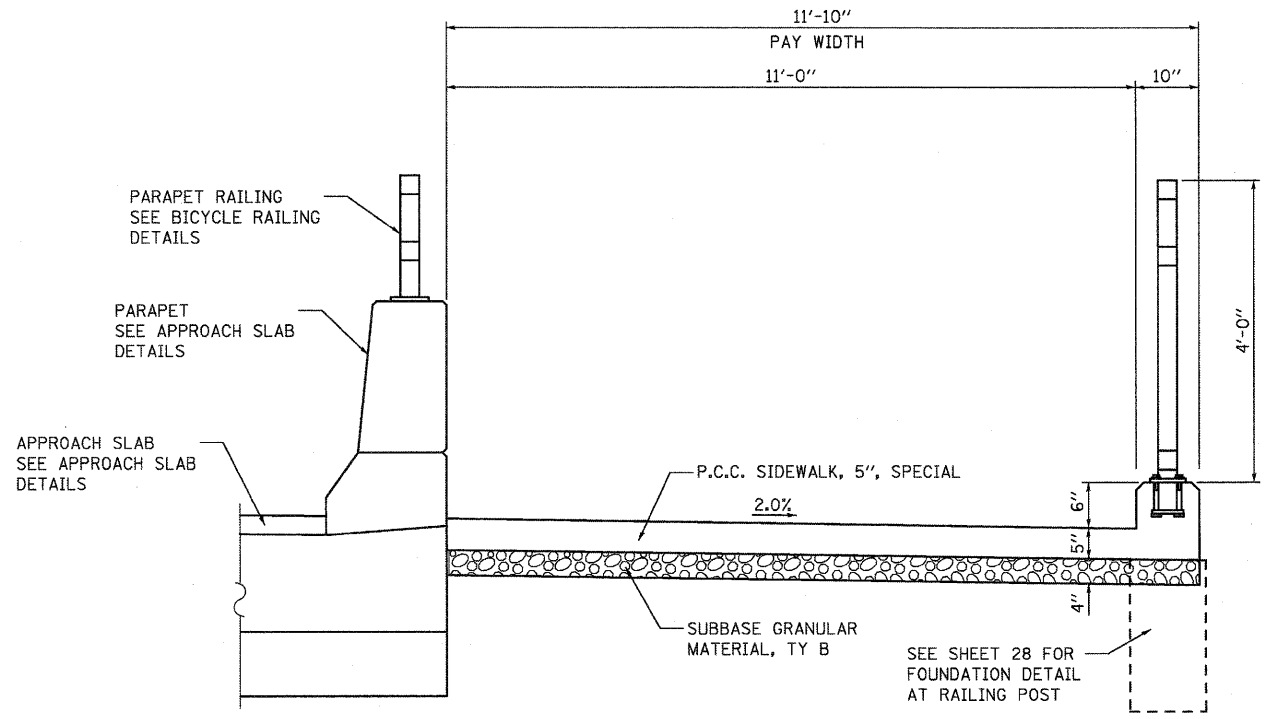
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PLOT DATE = 7/8/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

P.C.C. SIDEWALK, SPECIAL PLAN
SCALE: AS SHOWN SHEET NO. 26 OF 88 SHEETS STA. TO STA.

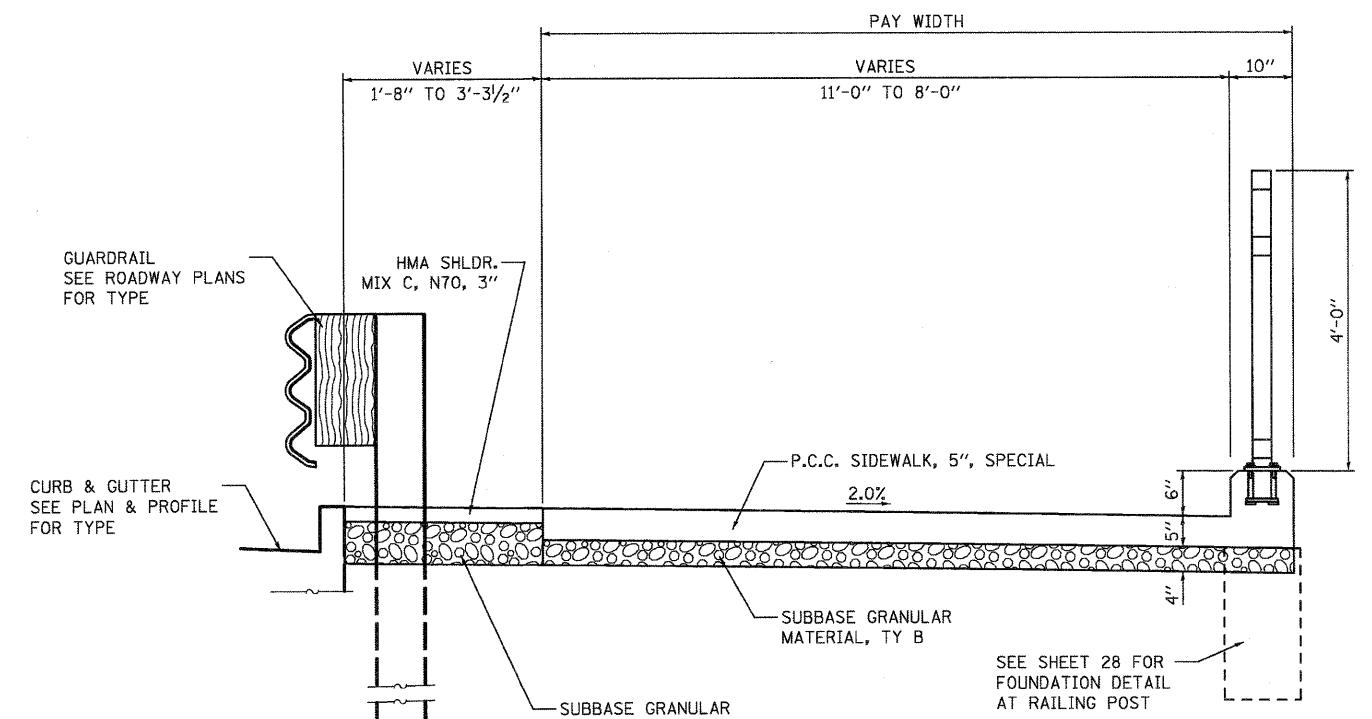
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5355	04-00167-00-BR	DEKALB	88	26
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

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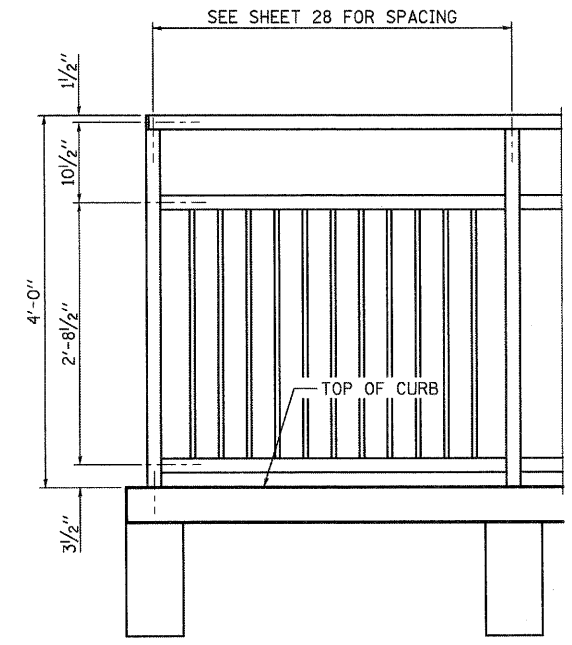
**P.C.C. SIDEWALK, 5", SPECIAL
ADJACENT TO PARAPET WALL**

STA. 17+02.8 TO STA. 17+17.2
STA. 18+49.9 TO STA. 18+64.9



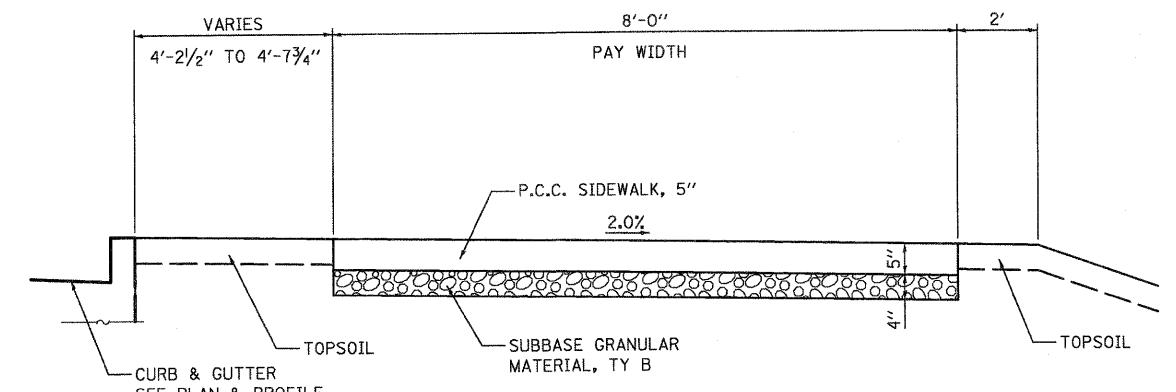
**P.C.C. SIDEWALK, 5", SPECIAL W/CURB
ADJACENT TO GUARDRAIL**

STA. 16+42.8 TO STA. 17+02.8
STA. 18+64.9 TO STA. 18+99.9



STEEL RAILING, SPECIAL

SEE BRIDGE RAILING DETAILS, STRUCTURAL SHEET 12 OF 24 FOR RAILING DETAILS



P.C.C. SIDEWALK, 5"

STA. 15+87.8 TO STA. 16+42.8
STA. 18+99.9 TO STA. 19+87.9

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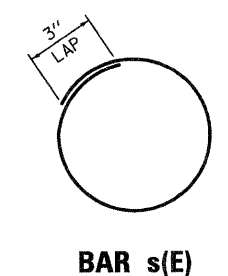
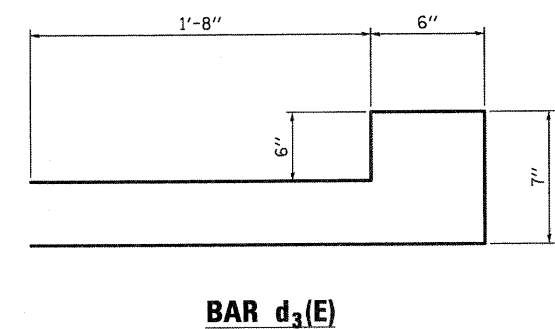
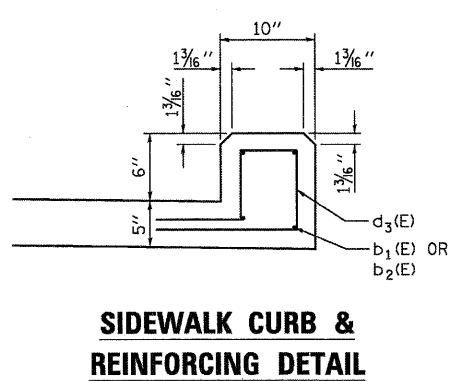
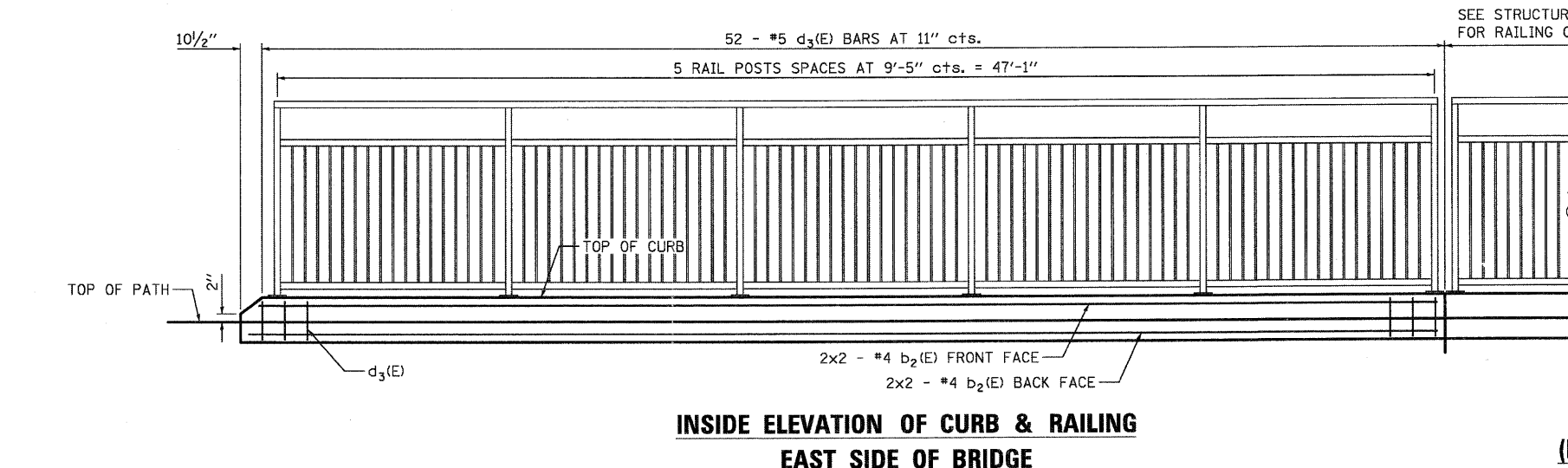
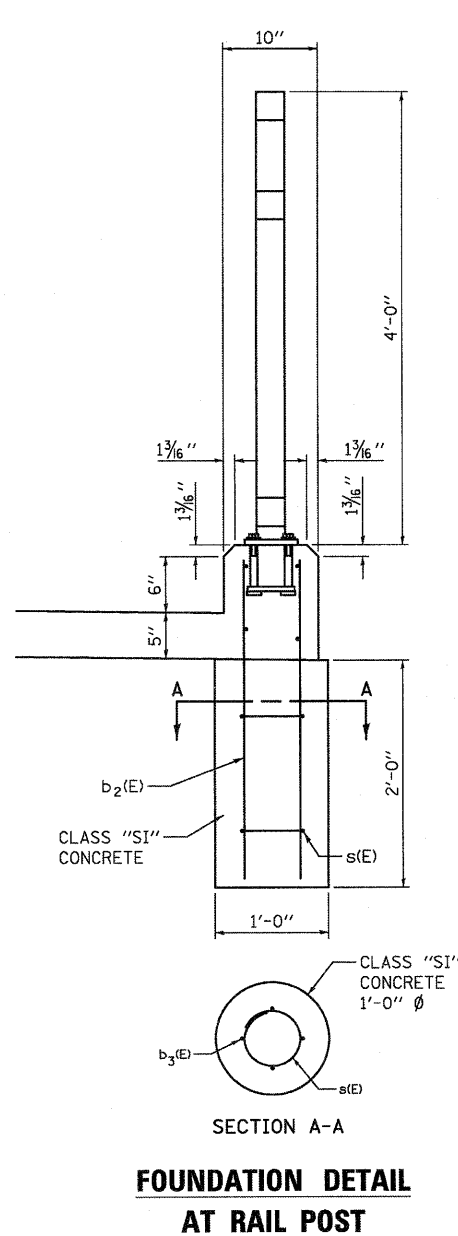
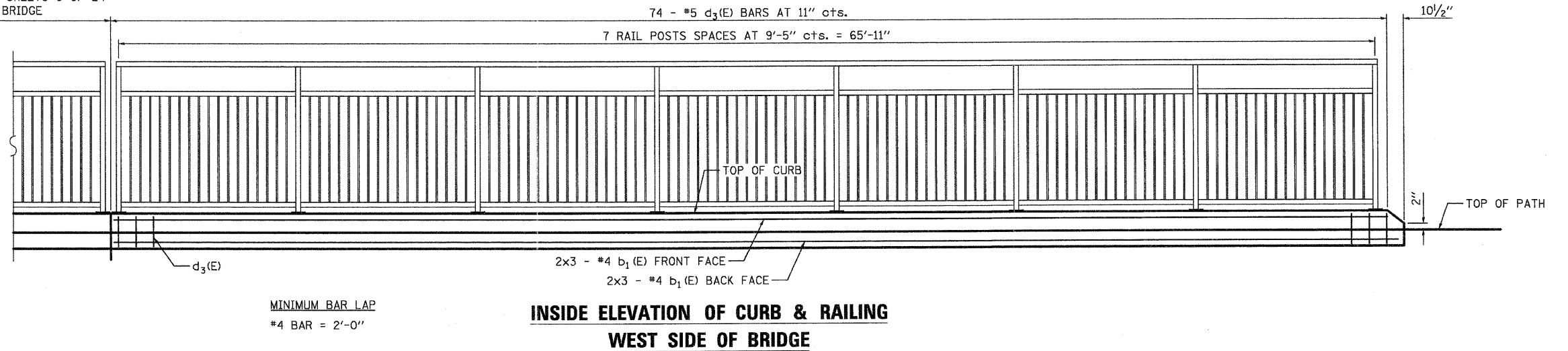
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PLOT DATE = 7/8/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

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DEPARTMENT OF TRANSPORTATION**

P.C.C. SIDEWALK, SPECIAL DETAILS I	
SCALE:	SHEET NO. 27 OF 88 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	27
FED. ROAD DIST. NO. 3 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 87491	

SEE STRUCTURAL SHEETS 9 OF 24 FOR RAILING ON BRIDGE



**PCC SIDEWALK, 5" SPECIAL
BILL OF MATERIALS
(FOR INFORMATIONAL PURPOSE ONLY)**

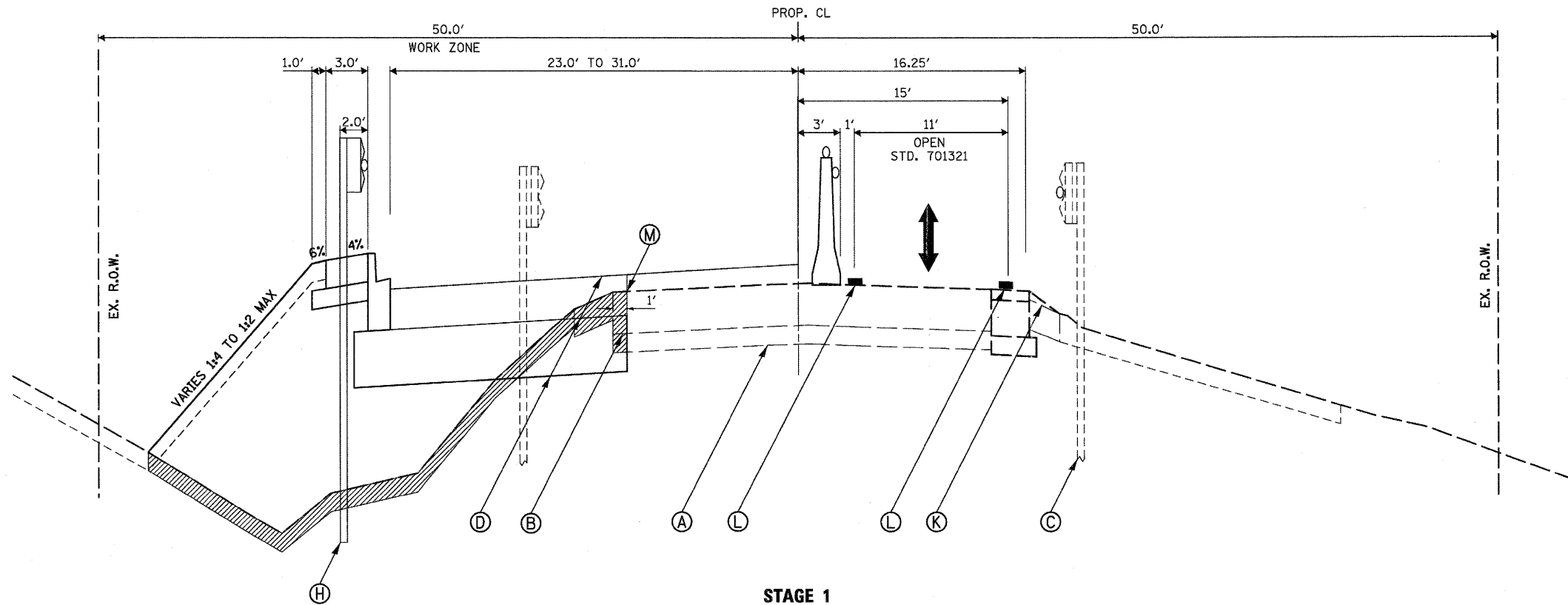
Bar	No.	Size	Length	Shape
b ₁ (E)	12	#4	23'-5"	—
b ₂ (E)	12	#4	25'-4"	—
b ₃ (E)	56	#4	2'-7"	—
d ₃ (E)	146	#5	5'-5"	⌋
s(E)	28	#4	2'-4"	○
			Pound	1,356
Reinforcement Bars, Epoxy Coated			Sq. Ft.	1,284.4
PCC Sidewalk 5" Special			Cu. Yd.	2.16
Concrete Post Foundations			Cu. Yd.	3.6

Bars indicated thus 1 x 2 - #4 etc. indicates 1 line of bars with 2 lengths per line.

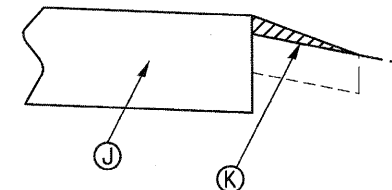
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<p>WILLS BURKE KELSEY ASSOCIATES LTD. 110 West Main Street, Suite 201 St. Charles, Illinois 60174</p>	USER NAME = nparr18	DESIGNED - DPB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	P.C.C. SIDEWALK, SPECIAL DETAILS II	F.A.U. RTE. 5355	SECTION 04-00167-00-BR	COUNTY DEKALB	TOTAL SHEETS 88	SHEET NO. 28		
	PLOT SCALE =	CHECKED - SBP	REVISED -			SCALE:	SHEET NO. 28 OF 88 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT		
	PLOT DATE = 7/8/2011	DATE - 7/8/11	REVISED -			CONTRACT NO. 87491						

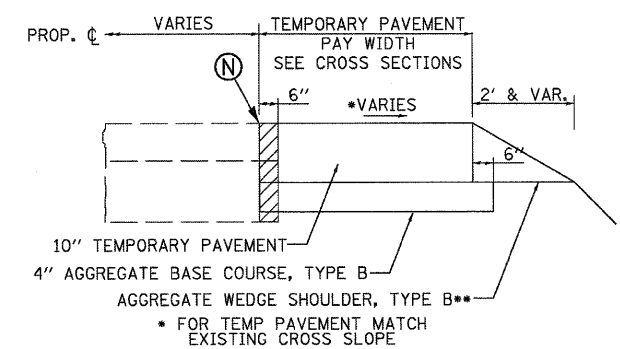
STAGING TYPICAL SECTIONS



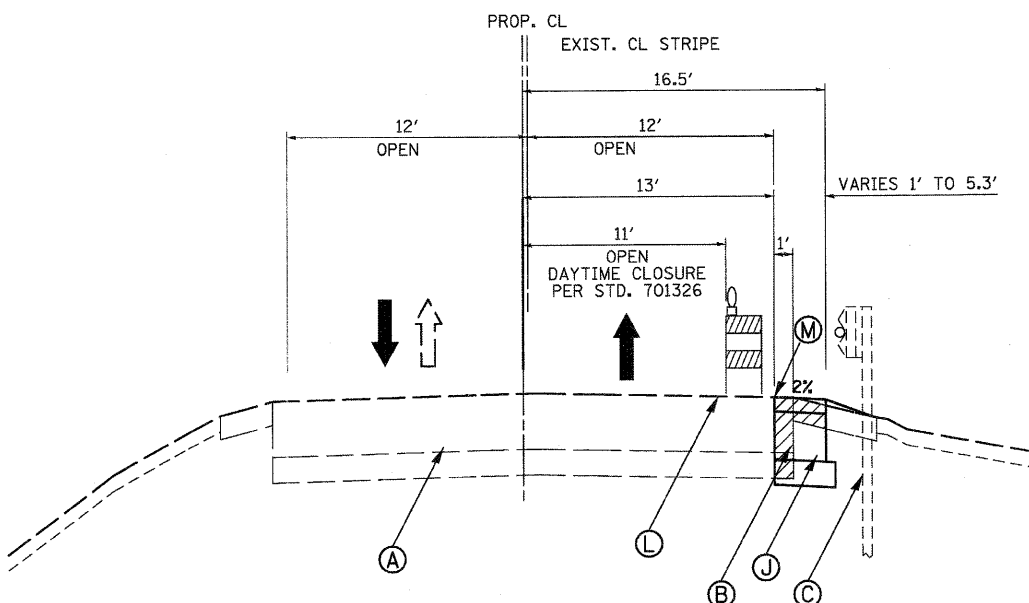
**STAGE 1
NORTH LANE CLOSURE**
STA. 15+86.6 TO STA. 16+87.2
OMIT BRIDGE
STA. 18+79.9 TO STA. 19+85.2



AGGREGATE WEDGE SHOULDER, TYPE B
TO BE CONSTRUCTED ADJACENT TO ALL TEMPORARY PAVEMENT CONSTRUCTED IN STAGE 1A



TEMPORARY PAVEMENT DETAIL
**AGGREGATE WEDGE TO BE CONSTRUCTED ADJACENT TO ALL TEMPORARY PAVEMENT WIDENING ADJACENT CONSTRUCTED IN STAGE 1A



**STAGE 1A
TEMPORARY PAVEMENT**
TEMP. PAVEMENT: STA. 15+49 TO STA. 17+16, RT.
STA. 18+47 TO STA. 20+32, RT.
*EXIST. GUARDRAIL:
STA. 15+72 TO STA. 17+10, RT.
STA. 18+57 TO STA. 19+95, RT.

STAGE 1A

- SAW CUT, REMOVE EXISTING PAVEMENT STRUCTURE FROM STA. 15+49, RT. TO STA. 17+16, RT. AND STA. 18+47, RT. TO STA. 20+32, RT. AND CONSTRUCT TEMP PAVEMENT FROM STA. 15+49, RT. TO STA. 17+16, RT. AND STA. 18+47, RT. TO STA. 20+32, RT. TO BE COMPLETED UTILIZING TRAFFIC CONTROL STANDARD 701326.
- CONSTRUCT AGGREGATE WEDGE SHOULDER, TYPE B ADJACENT TO THE TEMPORARY PAVEMENT.
- PLACE BARRICADES ADJACENT TO THE EDGE OF THE EXISTING PAVEMENT STRUCTURE UNTIL STAGE 1 IS INSTALLED.

STAGE 1

- SET UP STAGE 1 LANE SHIFT AND TRAFFIC CONTROL PLAN (SEE STAGE 1 MOT PLAN)
- SET UP TEMPORARY CONCRETE BARRIER WALL AND ATTENUATORS.
- SET TEMPORARY BRIDGE SIGNALS.
- INSTALL EROSION CONTROL DEVICES AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES
- REMOVE ROADWAY PAVEMENTS
- REMOVE EXISTING GUARDRAIL LEFT OF THE CENTERLINE.
- CONSTRUCT BRIDGE AND APPROACH SLAB LEFT OF CENTERLINE
- CONSTRUCT SUBGRADE, AGGREGATE BASE COURSES, AND PAVEMENTS (BINDER COURSE ONLY) LEFT OF CENTERLINE.
- CONSTRUCT THE STEEL PLATE BEAM GUARDRAIL AND END TREATMENTS. CONSTRUCT HEIGHT OF GUARDRAIL BASED ON THE 2 1/4" SURFACE COURSE TO BE PLACED IN STAGE 3.
- PLACE TOPSOIL, SEEDING AND BLANKET LEFT OF THE CENTERLINE IN ITS ENTIRETY.

LEGEND

- (A) EXIST. PAVEMENT STRUCTURE
- (B) EXIST. PAVEMENT AND SHOULDER STRUCTURE - TO BE REMOVED
- (C) EXIST. GUARDRAIL W/PROP. GUARDRAIL MARKERS
- (D) PROP. PAVEMENT STRUCTURE (AGGREGATE BASE/HMA BINDER ONLY)
- (E) PROP. SURFACE COURSE
- (F) PROP. MULTI-USE PATH/AGGREGATE BASE COURSE
- (G) PROP. AGGREGATE SHOULDERS
- (H) PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A W/GUARDRAIL MKRS.
- (I) PROP. BASE COURSE WIDENING
- (J) *10" TEMPORARY PAVEMENT W/4" AGGREGATE BASE COURSE
2 1/4" - HMA SURFACE COURSE, MIX "D", N50
7 3/4" - HMA BINDER COURSE, IL-19.0 (2 LIFTS)
- (K) AGGREGATE WEDGE SHOULDER, TYPE B
- (L) TEMPORARY PAVEMENT MARKING LINE
- (M) SAWCUT - FULL DEPTH
- (N) SHORT-TERM PAVEMENT MARKINGS
- (O) TEMPORARY PAVEMENT REMOVAL
- (P) HMA SURFACE REMOVING

• IF CONTRACTOR CHOOSES TO USE CONCRETE FOR TEMPORARY PAVEMENT THE THICKNESS SHALL BE 10 INCHES.

PAVEMENT MARKING NOTE:
ONLY TEMPORARY PAVEMENT MARKING TAPE WILL BE USED ON EXISTING PAVEMENT PAST THE PROPOSED PAVING LIMITS AND FINAL SURFACE COURSES.

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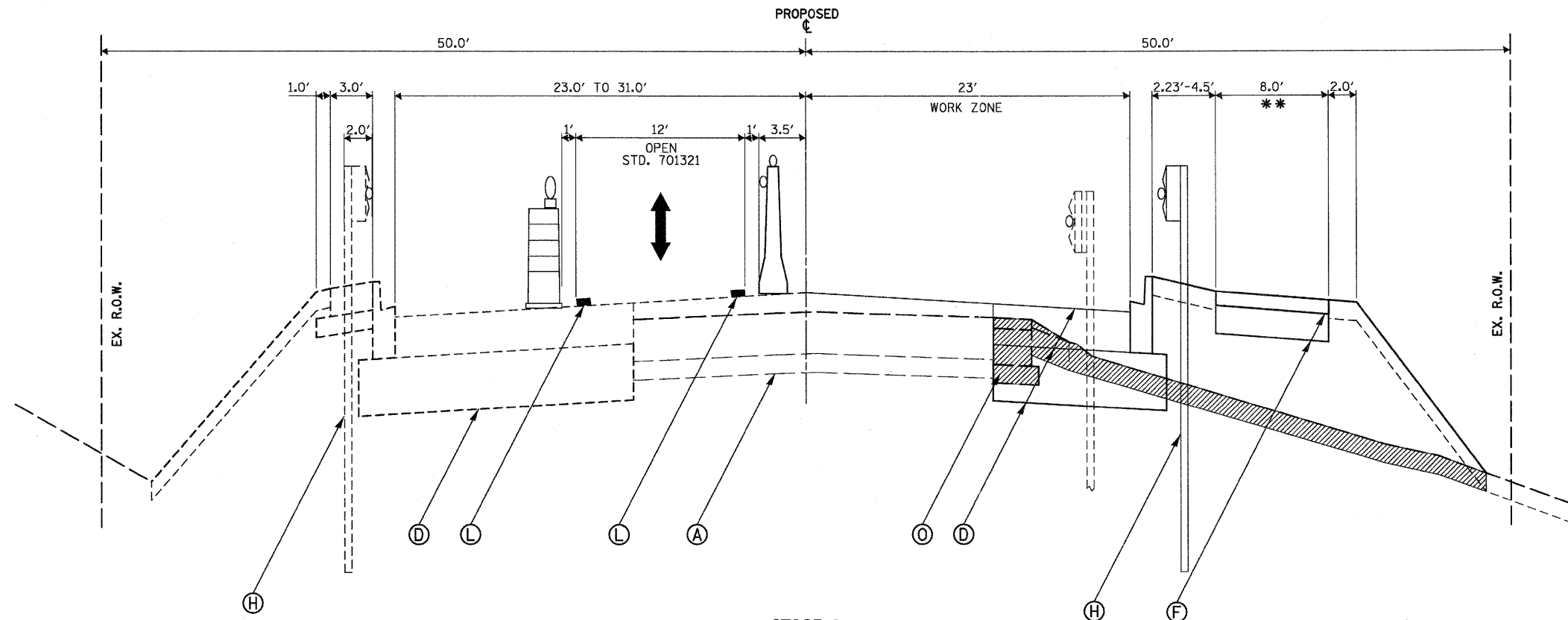
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	DATE - 7/8/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC TYPICAL SECTIONS	
SCALE:	SHEET NO. 29 OF 88 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	29
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

STAGING TYPICAL SECTIONS



STAGE 2

- CONSTRUCT TEMPORARY RAMP STA. 17+10.4 TO STA. 17+17.2, LT AND STA. 18+49.9 TO STA. 18+56.7, LT.
- SET UP STAGE 2 LANE SHIFT AND TRAFFIC CONTROL PLAN (SEE STAGE 2 MOT PLANS).
- RELOCATE AND SET TEMPORARY CONCRETE BARRIER WALL.
- RELOCATE AND SET TEMPORARY BRIDGE SIGNALS.
- INSTALL EROSION CONTROL DEVICES AS REQUIRED PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES
- REMOVE EXISTING GUARDRAIL RIGHT OF THE CENTERLINE.
- CONSTRUCT BRIDGE AND APPROACH SLAB RIGHT OF CENTERLINE
- CONSTRUCT SUBGRADE, AGGREGATE BASE COURSES, AND PAVEMENTS (BINDER COURSE ONLY) RIGHT OF CENTERLINE.
- CONSTRUCT THE MULTI-USE PATH.
- CONSTRUCT THE STEEL PLATE BEAM GUARDRAIL AND END TREATMENTS, RIGHT OF CENTERLINE. CONSTRUCT HEIGHT OF GUARDRAIL BASED ON THE 2 1/4" SURFACE COURSE TO BE PLACED IN STAGE 3.
- PLACE TOPSOIL, SEEDING AND BLANKET RIGHT OF THE CENTERLINE IN ITS ENTIRETY.

PAVEMENT MARKING NOTE:

ONLY TEMPORARY PAVEMENT MARKING TAPE WILL BE USED ON EXISTING PAVEMENT PAST THE PROPOSED PAVING LIMITS AND FINAL SURFACE COURSES.

STAGE 2 SOUTH LANE CLOSURE

STA. 15+86.6 TO STA. 16+87.2
OMIT BRIDGE
STA. 18+79.9 TO STA. 19+85.2
**MULTI-USE PATH - STA. 15+87.8 TO STA. 17+17.2
STA. 18+49.9 TO STA. 19+84.9

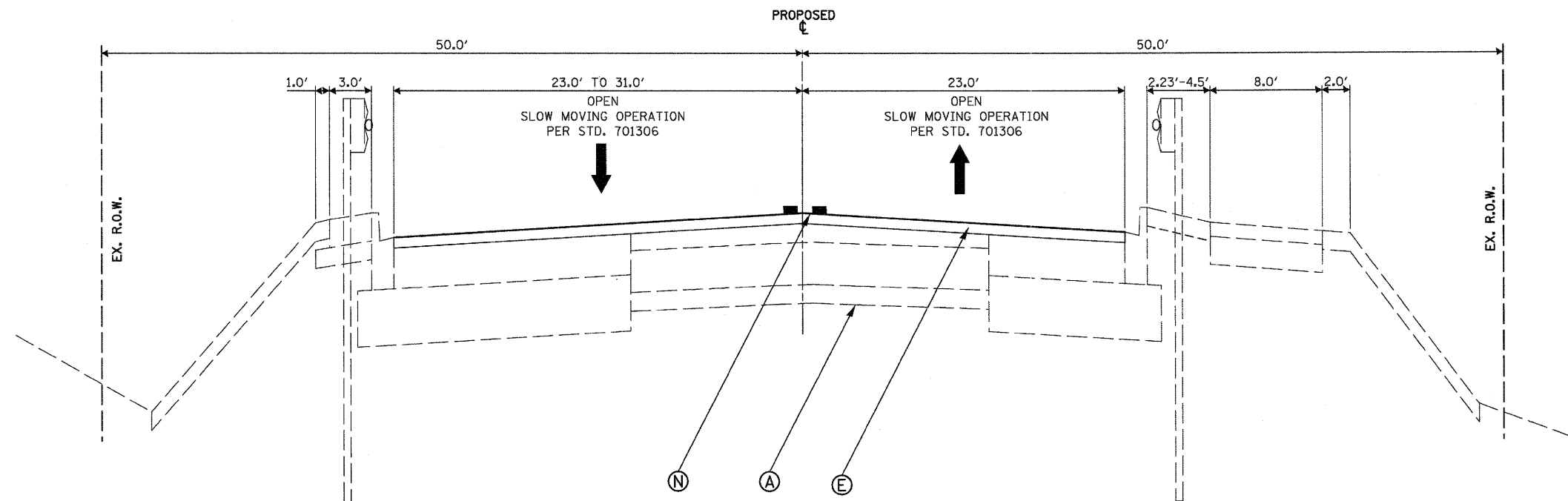
LEGEND

- (A) EXIST. PAVEMENT STRUCTURE
- (B) EXIST. PAVEMENT AND SHOULDER STRUCTURE - TO BE REMOVED
- (C) EXIST. GUARDRAIL W/PROP. GUARDRAIL MARKERS
- (D) PROP. PAVEMENT STRUCTURE (AGGREGATE BASE/HMA BINDER ONLY)
- (E) PROP. SURFACE COURSE
- (F) PROP. MULTI-USE PATH/AGGREGATE BASE COURSE
- (G) PROP. AGGREGATE SHOULDERS
- (H) PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A W/GUARDRAIL MKRS.
- (I) PROP. BASE COURSE WIDENING
- (J) 10", TEMPORARY PAVEMENT W/4" AGGREGATE BASE COURSE
2 1/4" - HMA SURFACE COURSE, MIX "D", N50
7 3/4" - HMA BINDER COURSE, IL-19.0 (2 LIFTS)
- (K) AGGREGATE WEDGE SHOULDER, TYPE B
- (L) TEMPORARY PAVEMENT MARKING LINE
- (M) SAWCUT - FULL DEPTH
- (N) SHORT-TERM PAVEMENT MARKINGS
- (O) TEMPORARY PAVEMENT REMOVAL
- (P) HMA SURFACE REMOVING

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STAGING TYPICAL SECTIONS



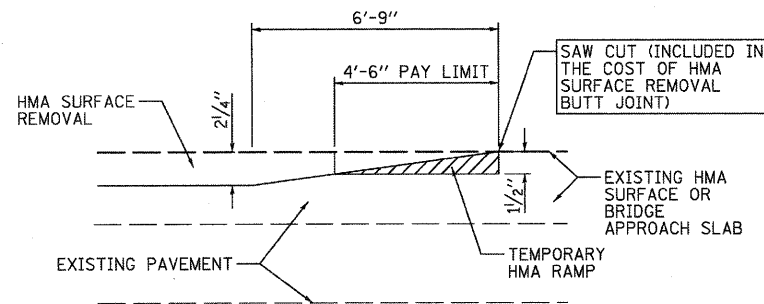
**STAGE 3
FINAL SURFACE COURSE**
STA. 15+86.6 TO STA. 16+87.2
OMIT BRIDGE
STA. 18+79.9 TO STA. 19+85.2

STAGE 3

- CONSTRUCT TEMPORARY RAMP STA. 17+10.4 TO STA. 17+17.2, RT AND STA. 18+49.9 TO STA. 18+56.7, RT.
- OPEN ALL LANES TO TRAFFIC FROM STA. 13+42 TO STA. 21+57.
- CONSTRUCT PAVEMENT SURFACE REMOVAL (BUTT JOINTS) AND STA. 13+19 TO STA. 15+16 AND STA. 20+82 TO STA. 21+80.
- MAINTENANCE OF TRAFFIC FOR THE BUTT JOINT CONSTRUCTION SHALL BE COMPLETED UTILIZING TRAFFIC CONTROL STD. 701306.
- TEMPORARY RAMPS STA. 13+19 TO STA. 13+25.8 AND STA. 21+73.2 TO STA. 21+80.
- APPLY BITUMINOUS TACK COAT. MAINTENANCE OF TRAFFIC FOR THE TACK COAT SHALL BE COMPLETED UTILIZING TRAFFIC CONTROL STD. 701306.
- CONSTRUCT HMA SURFACE COURSE FROM STA. 13+19 TO STA. 17+17.2 AND STA. 18+49.9 TO STA. 21+80. THIS WORK SHALL BE COMPLETED UTILIZING TRAFFIC CONTROL STANDARDS 701306.
- PLACE ALL PERMANENT PAVEMENT MARKINGS STA. 12+19 TO STA. 22+80.
- COMPLETE RESTORATION OF THE PROJECT AREA.
- REMOVE REMAINING CONSTRUCTION TRAFFIC CONTROL DEVICES AND SIGNAGE.

LEGEND

- (A) EXIST. PAVEMENT STRUCTURE
- (B) EXIST. PAVEMENT AND SHOULDER STRUCTURE - TO BE REMOVED
- (C) EXIST. GUARDRAIL W/PROP. GUARDRAIL MARKERS
- (D) PROP. PAVEMENT STRUCTURE (AGGREGATE BASE/HMA BINDER ONLY)
- (E) PROP. SURFACE COURSE
- (F) PROP. MULTI-USE PATH/AGGREGATE BASE COURSE
- (G) PROP. AGGREGATE SHOULDERS
- (H) PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A W/GUARDRAIL MKRS.
- (I) PROP. BASE COURSE WIDENING
- (J) 10" TEMPORARY PAVEMENT W/4" AGGREGATE BASE COURSE
2 1/4" - HMA SURFACE COURSE, MIX "D", N50
7 3/4" - HMA BINDER COURSE, IL-19.0 (2 LIFTS)
- (K) AGGREGATE WEDGE SHOULDER, TYPE B
- (L) TEMPORARY PAVEMENT MARKING LINE
- (M) SAWCUT - FULL DEPTH
- (N) SHORT-TERM PAVEMENT MARKINGS
- (O) TEMPORARY PAVEMENT REMOVAL
- (P) HMA SURFACE REMOVING

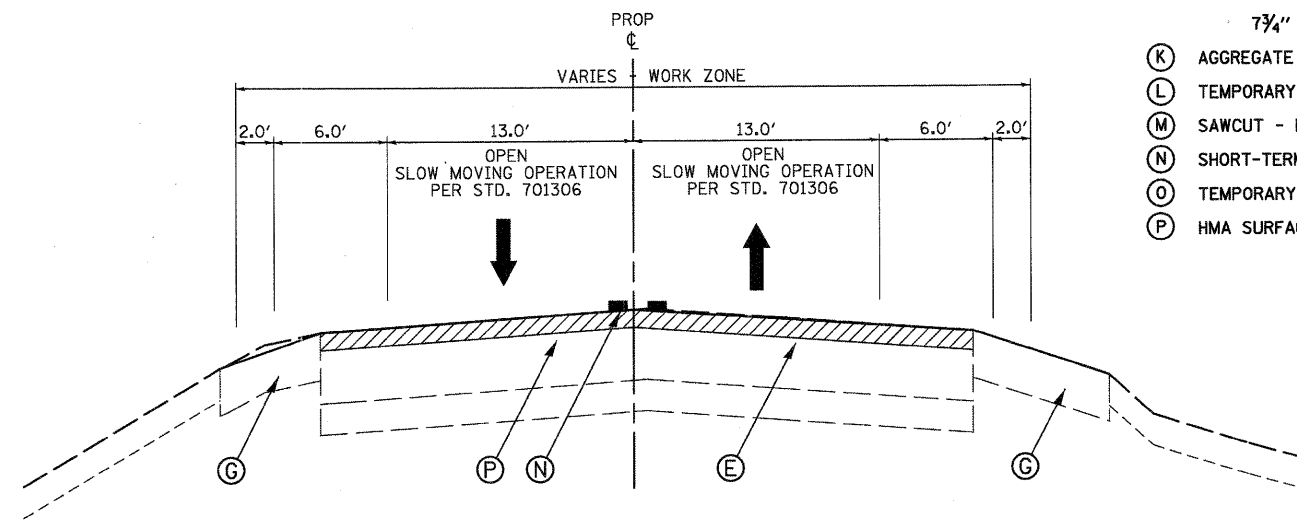


TYPICAL TEMPORARY RAMP

HMA CONSTRUCTED TEMPORARY RAMP (FOR BUTT JOINT AND HMA TAPER)

NOTES:

1. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
2. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
3. TAPER THE TEMP. RAMP AT A RATE OF 3'-0" PER 1 INCH OF MILLING THICKNESS.
4. SEE ART. 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".



STAGE 3 - HMA TRANSITION

STA. 13+19.00 TO STA. 15+44.50
STA. 20+64.40 TO STA. 21+80.00

PAVEMENT MARKING NOTE:

ONLY TEMPORARY PAVEMENT MARKING TAPE WILL BE USED ON EXISTING PAVEMENT PAST THE PROPOSED PAVING LIMITS AND FINAL SURFACE COURSES.

FILE NAME = M:\Projects\2011\100804 - Bethel\gh\cadd\civil\gh\sh\st\st-typrsec.dwg

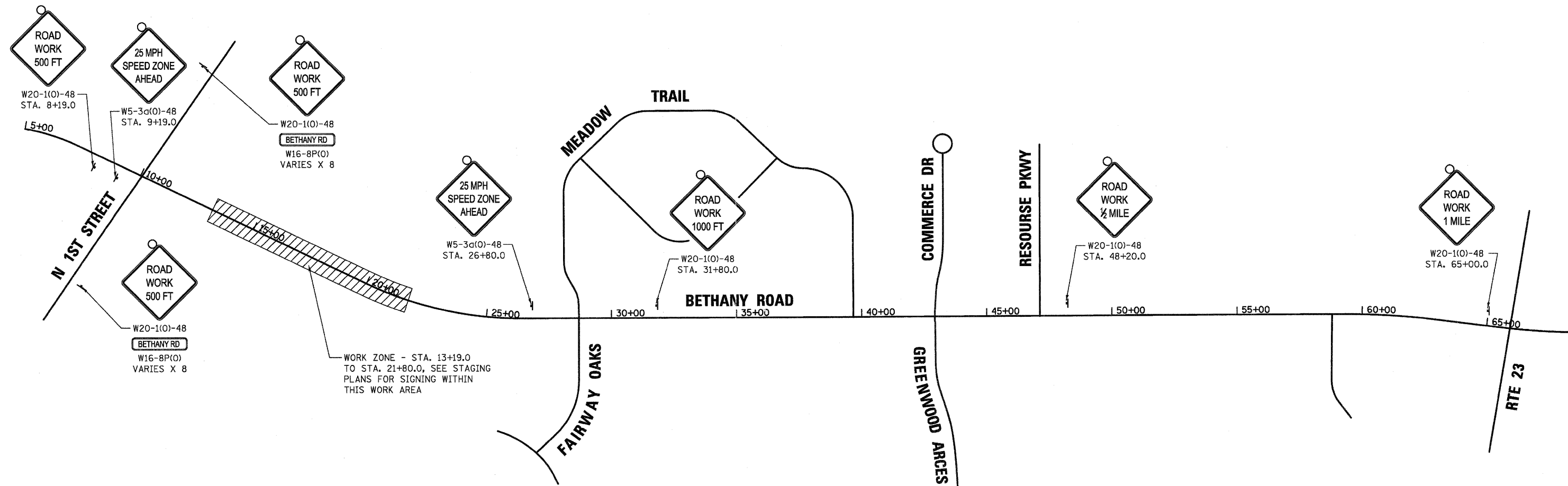
WILLS BURKE KELSEY ASSOCIATES LTD.
119 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

USER NAME = #USER#	DESIGNED - DPB	REVISED -
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PLOT DATE = 7/6/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

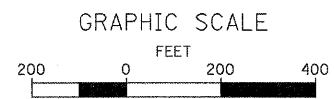
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC TYPICAL SECTIONS	
SCALE:	SHEET NO. 31 OF 88 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	31
FED. ROAD DIST. NO. 3 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 87491	

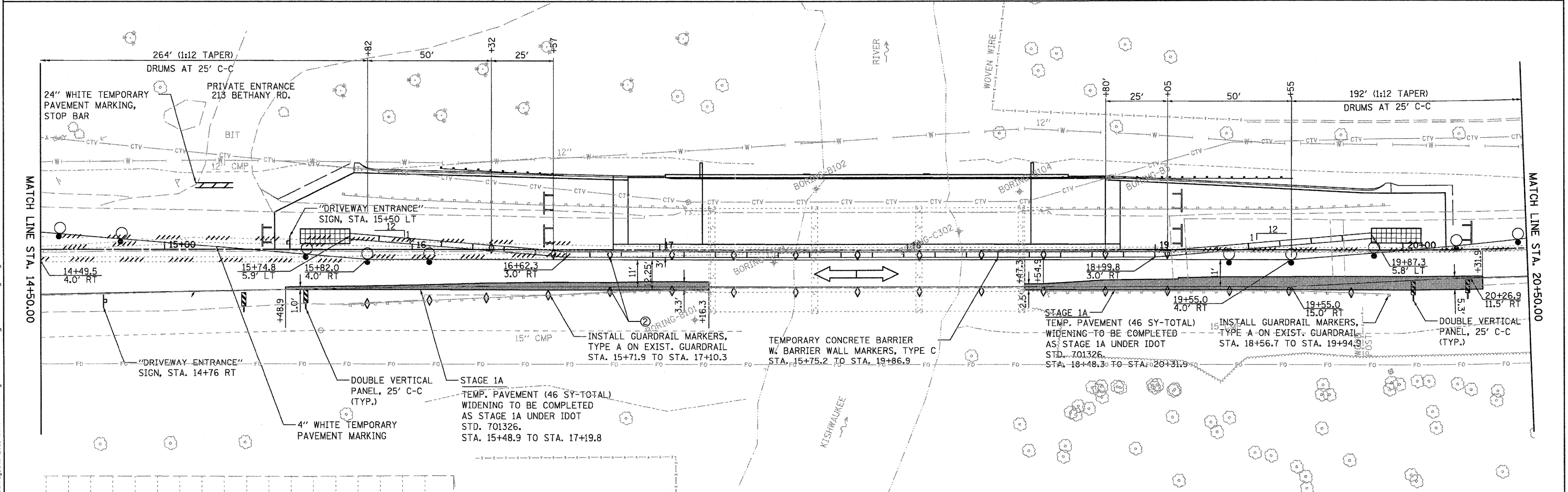
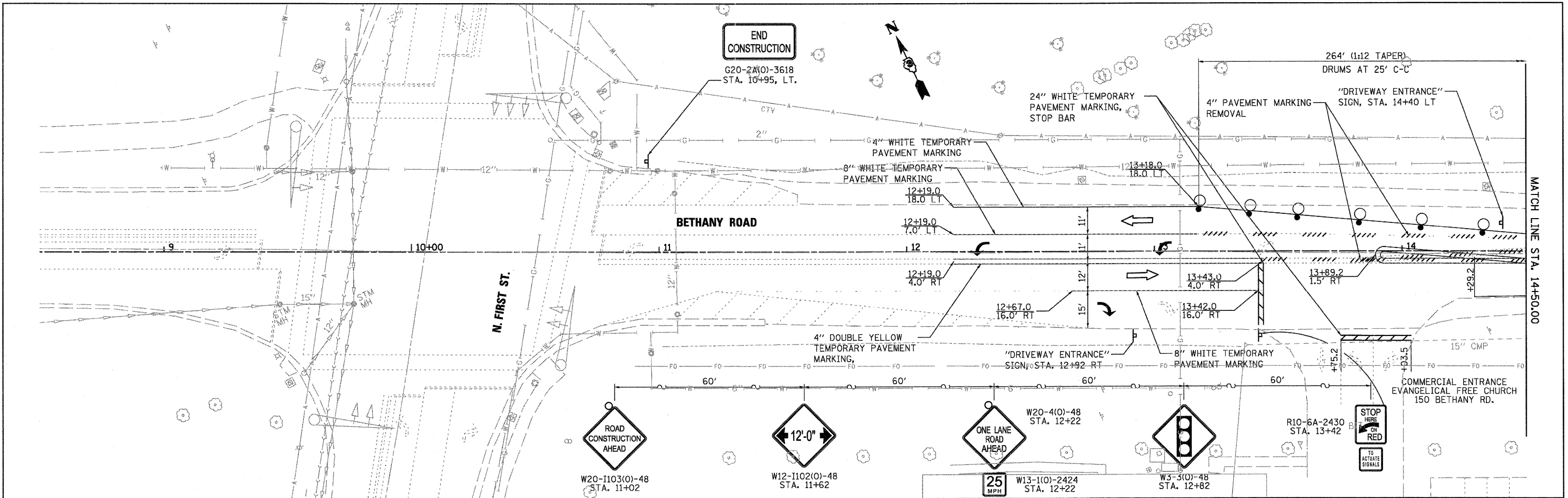


NOTE:
 THE CITY OF DEKALB RESERVES THE RIGHT TO ADD ADDITIONAL SIGNAGE. THERE WILL BE NO ADDITIONAL COMPENSTATION FOR ADDITIONAL SIGNAGE.



FILE NAME = W:\Projects\2011\1109254 BethanyRd\Ascd\Drawn\Signs\MO\tbl\1.dgn

WILLS BURKE KELSEY ASSOCIATES LTD. 118 West Main Street, Suite 201 St. Charles, Illinois 60174	USER NAME = nperis	DESIGNED - DPB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC ADVANCED WARNING SIGNS		F.A.U. RTE. 5355	SECTION 04-00167-00-BR	COUNTY DEKALB	TOTAL SHEETS 88	SHEET NO. 32	
	PLOT SCALE =	CHECKED - SBP	REVISED -		SCALE:	SHEET NO. 32 OF 88 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				
	PLOT DATE = 7/6/2011	DATE - 7/8/11	REVISED -									



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 St. Charles, Illinois 60174

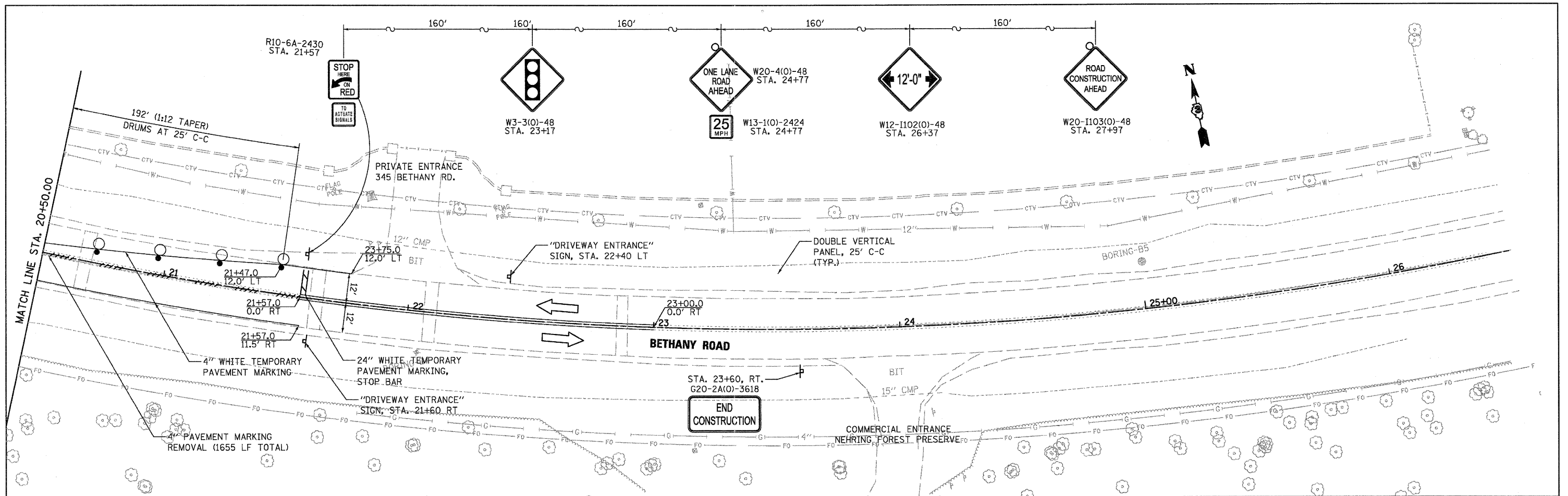
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PLOT DATE = 7/8/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 STAGE 1**

SCALE: AS SHOWN SHEET NO. 33 OF 88 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	33
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				



STAGING PLAN NOTES:

- ① TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
- ② BARRIER WALL/GUARDRAIL MARKERS AT 25' CTS. SEE STANDARDS 704001 & 635011.
- ③ WHEN TEMP. BRIDGE RAIL IS SPECIFIED, IT SHALL BE CONNECTED TO THE TEMP. CONC. BARRIER USING TRAFFIC BARRIER TERMINAL TYPE II.

GENERAL NOTES:

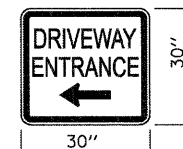
1. SEE IDOT STANDARD 701321, LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER FOR ADDITIONAL INFORMATION.
2. SEE MOT TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
3. ALL TEMPORARY PAVEMENT MARKINGS IN STAGE 1 SHALL BE TAPE.
4. AGGREGATE SHOULDER SHALL BE PLACED ADJACENT TO THE TEMPORARY PAVEMENT AND BE PAID FOR AS ITEM 48101500, AGGREGATE WEDGE SHOULDER, TYPE B
5. DRIVEWAY SHALL REMAIN ACCESSABLE AT ALL TIMES DURING CONSTRUCTION. ADDITIONAL BARRICADES CAN BE USED AS NEEDED.

PAVEMENT MARKING NOTE

ONLY TEMPORARY PAVEMENT MARKING TAPE WILL BE USED ON EXISTING PAVEMENT PAST THE PROPOSED PAVING LIMITS AND FINAL SURFACE COURSES.

LEGEND

- TYPE III BARRICADE WITH FLASHING LIGHT
- IMPACT ATTENUATOR
- TEMPORARY PAVEMENT WIDENING, 10'
- SIGN (WORK ZONE)
- DRUM WITH STEADY BURN LIGHT OR BARRICADE
- TEMPORARY CONCRETE BARRIER W/ TYPE C MARKERS
- DOUBLE VERTICAL PANEL
- CRYSTAL BIDIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
- PERMANENT PAVEMENT MARKING REMOVAL
- DIRECTION OF TRAFFIC FLOW



(2 REQ. EA. D/W)

THE COST TO FURNISH, INSTALL AND REMOVE THESE SIGNS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321

FILE NAME = W:\Projects\2010\100054 - Bethany Rd - Access Control\Drawings\Sheet\MDT\stage1-2.dgn

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 St. Charles, Illinois 60174

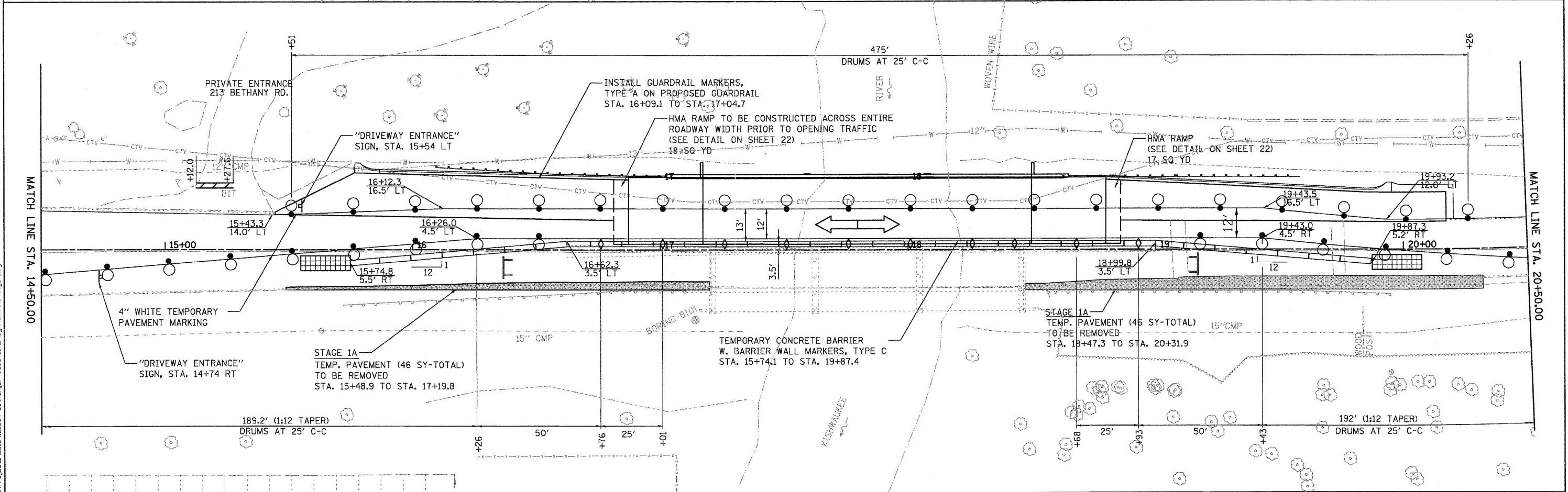
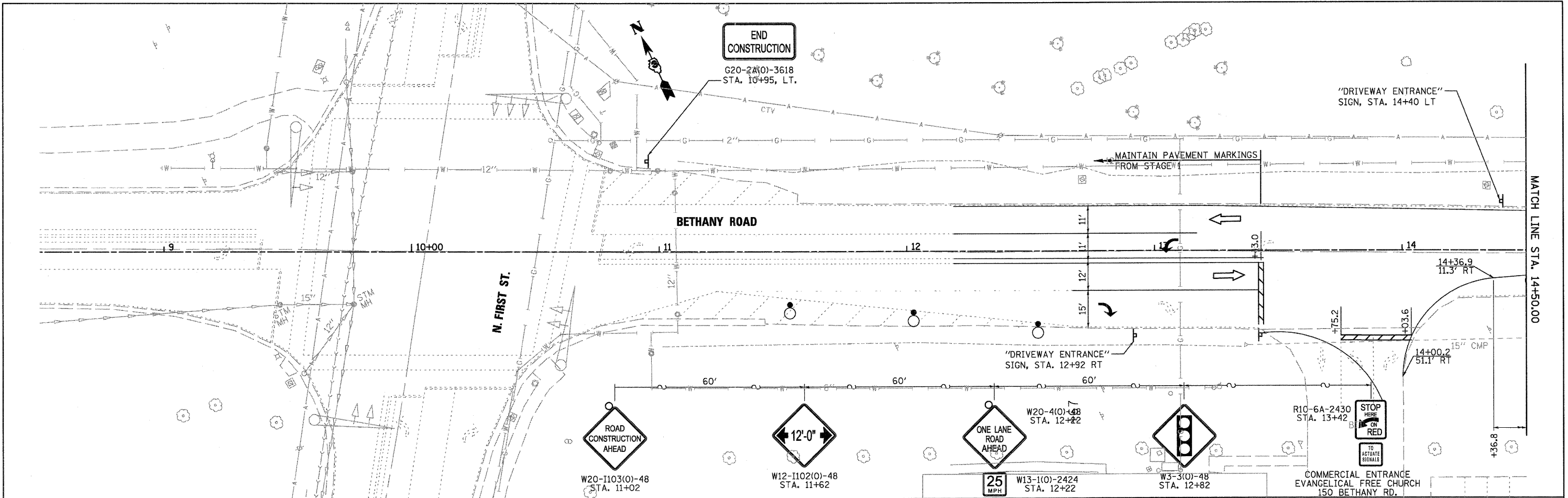
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PLOT DATE = 7/6/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
STAGE 1

SCALE: AS SHOWN	SHEET NO. 34 OF 88 SHEETS	STA. _____	TO STA. _____
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	34
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				



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St. Charles, Illinois 60174

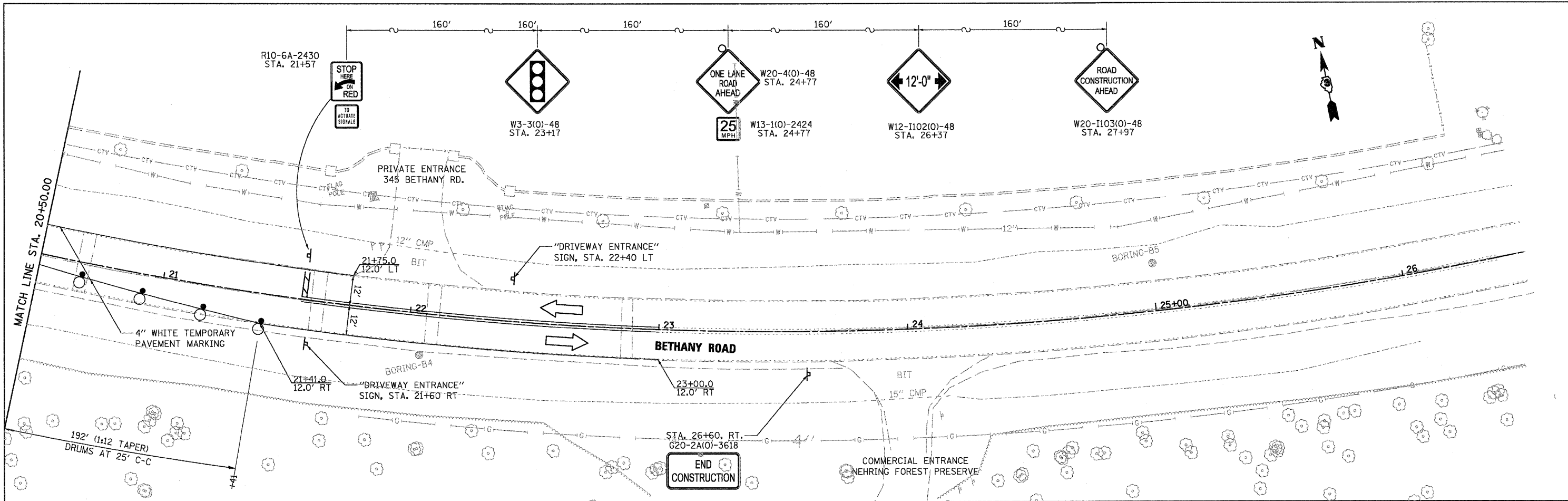
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PLOT DATE = 7/6/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE 2**

SCALE: AS SHOWN SHEET NO. 35 OF 88 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	35
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				



STAGING PLAN NOTES:

- ① TYPE III BARRICADE TO BE PLACED WHEN NO WORK IS BEING PERFORMED.
- ② BARRIER WALL/GUARDRAIL MARKERS AT 25' cts. SEE STANDARDS 704001 & 635011.
- ③ WHEN TEMP. BRIDGE RAIL IS SPECIFIED, IT SHALL BE CONNECTED TO THE TEMP. CONC. BARRIER USING TRAFFIC BARRIER TERMINAL TYPE II.

GENERAL NOTES:

1. SEE IDOT STANDARD 701321, LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER FOR ADDITIONAL INFORMATION.
2. SEE MOT TYPICAL SECTIONS FOR ADDITIONAL INFORMATION.
3. ALL TEMPORARY PAVEMENT MARKINGS IN STAGE 2 SHALL BE TAPE.
4. AGGREGATE SHOULDER SHALL BE PLACED ADJACENT TO THE TEMPORARY PAVEMENT AND BE PAID FOR AS ITEM 48101500. AGGREGATE WEDGE SHOULDER, TYPE B
5. DRIVEWAY SHALL REMAIN ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION. ADDITIONAL BARRICADES CAN BE USED AS NEEDED.

LEGEND

- TYPE III BARRICADE WITH FLASHING LIGHT
- IMPACT ATTENUATOR
- TEMPORARY PAVEMENT WIDENING, 10"
- SIGN (WORK ZONE)
- DRUM WITH STEADY BURN LIGHT OR BARRICADE

- TEMPORARY CONCRETE BARRIER W/ TYPE C MARKERS
- DOUBLE VERTICAL PANEL
- CRYSTAL BIDIRECTIONAL BARRIER WALL/GUARDRAIL MARKER
- PERMANENT PAVEMENT MARKING REMOVAL
- DIRECTION OF TRAFFIC FLOW



(2 REQ. EA. D/W)

THE COST TO FURNISH, INSTALL AND REMOVE THESE SIGNS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321

PAVEMENT MARKING NOTE

ONLY TEMPORARY PAVEMENT MARKING TAPE WILL BE USED ON EXISTING PAVEMENT PAST THE PROPOSED PAVING LIMITS AND FINAL SURFACE COURSES.

FILE NAME: M:\Projects\2011\200954_BethanyRd\Drawings\SH\NOTES\2-2.dgn

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St. Charles, Illinois 60174

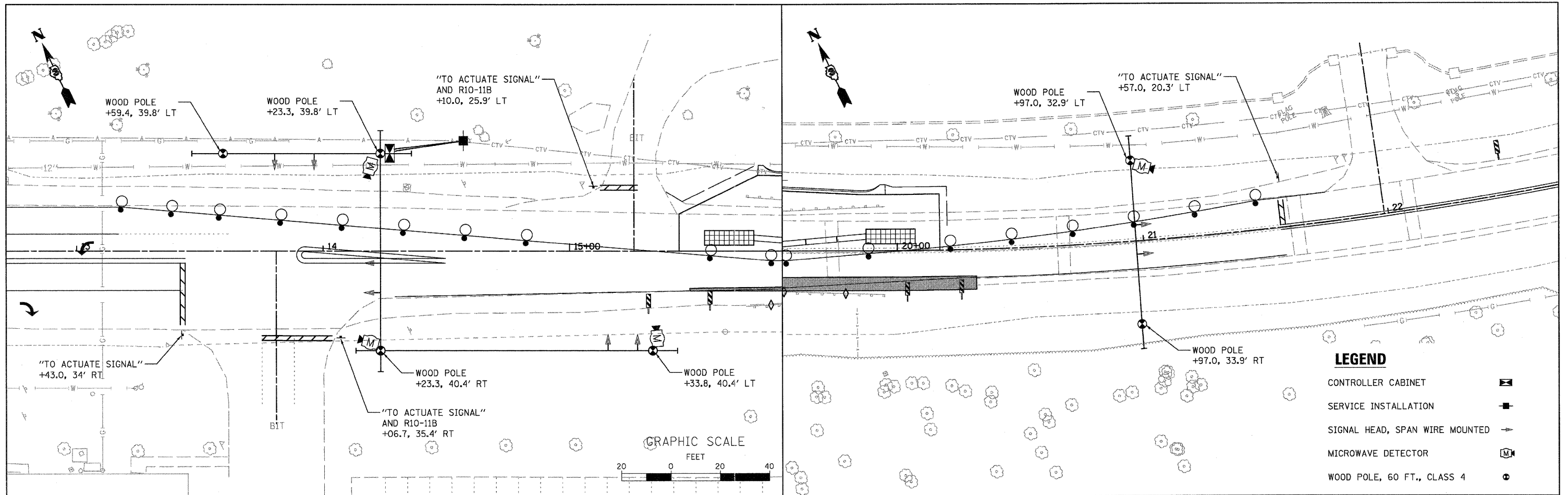
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	DATE - 7/8/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE 2**

SCALE: AS SHOWN SHEET NO. 36 OF 88 SHEETS STA. TO STA.

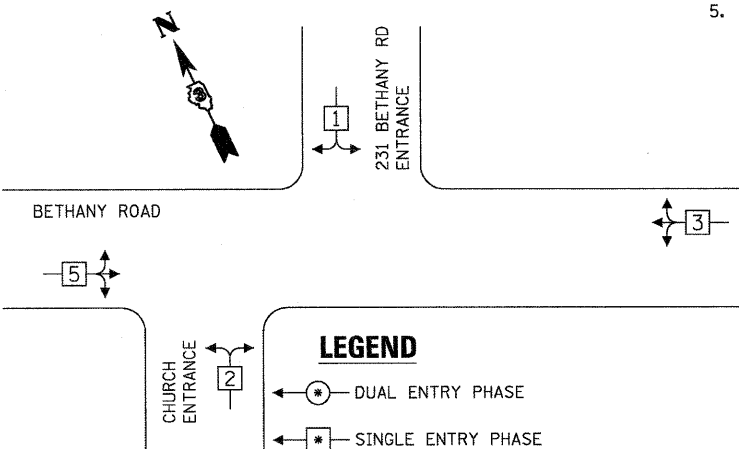
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	36
FED. ROAD DIST. NO. 3 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 87491	



RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA WILL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION WILL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTES

1. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAY ENTRANCES WITHIN THE LIMITS OF THE PROJECT.
2. THE TEMPORARY BRIDGE TRAFFIC SIGNALS SHALL BE ACTIVATED AND TESTED AND APPROVED BY THE ENGINEER PRIOR TO ANY LANE CLOSURES.
3. THE WOOD POLES AND SPAN WIRE MOUNTED SIGNAL HEADS ARE THE SUGGESTED PLAN FOR THE TEMPORARY BRIDGE TRAFFIC SIGNALS. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE PLAN SO LONG AS IT SATISFIES THE REQUIREMENTS OF ARTICLE 701 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS.
4. ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLY WITH THESE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE BID PRICE OF "TEMPORARY BRIDGE TRAFFIC SIGNALS".
5. TRAFFIC SIGNAL INSTALLATION WILL REMAIN THE SAME FOR STAGE 1 AND STAGE 2. SIGNAL HEAD WILL NEED TO BE ADJUSTED FOR EACH STAGE. THERE WILL BE NO ADDITIONAL COMPENSATION FOR SIGNAL HEAD ADJUSTMENT.



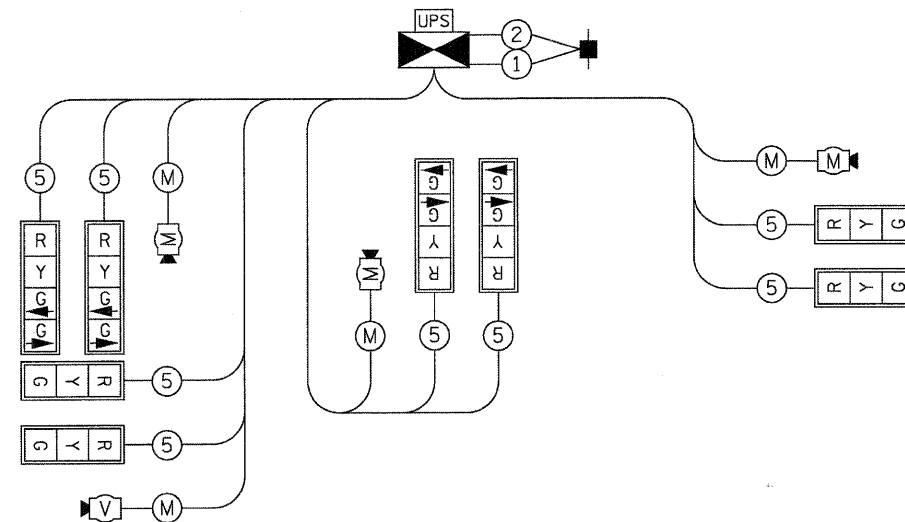
TEMPORARY PHASE DESIGNATION DIAGRAM

1	2	5	6	3	4
			ALL RED		ALL RED

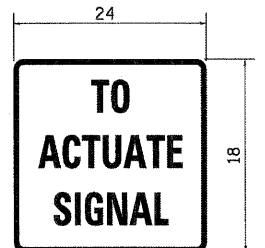
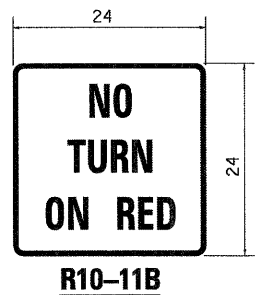
SEQUENCE OF OPERATION NOTES

1. DETECTORS FOR NEMA PHASES 1, 2, & 5 SHALL CALL PHASE 6, BUT SHALL NOT EXTEND PHASE 6.
2. DETECTORS FOR PHASE 3 SHALL CALL PHASE 4, BUT SHALL NOT EXTEND PHASE 4.
3. PHASES 1 & 2 SHALL HAVE ALL-RED CLEARANCE INTERVALS AND WILL BE FOLLOWED BY PHASE 6 IF PHASE 5 IS NOT CALLED.
4. IN ABSENCE OF CALLS, THE SIGNALS SHALL DWELL IN ALL-RED.

SEQUENCE OF OPERATION (SINGLE RING)



TEMPORARY CABLE PLAN



STOP LINE SIGN FOR TEMPORARY SIGNALS

SIZE: 24"x24"
4" CAPITAL LETTERS - BLACK
1/2" BORDER - BLACK
WHITE REFLECTIVE - TYPE B
HIGH INTENSITY PRISMATIC SHEETING
SEE DISTRICT 3 STD. 720-4

NOTES:

1. THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY THE ENGINEER.
2. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

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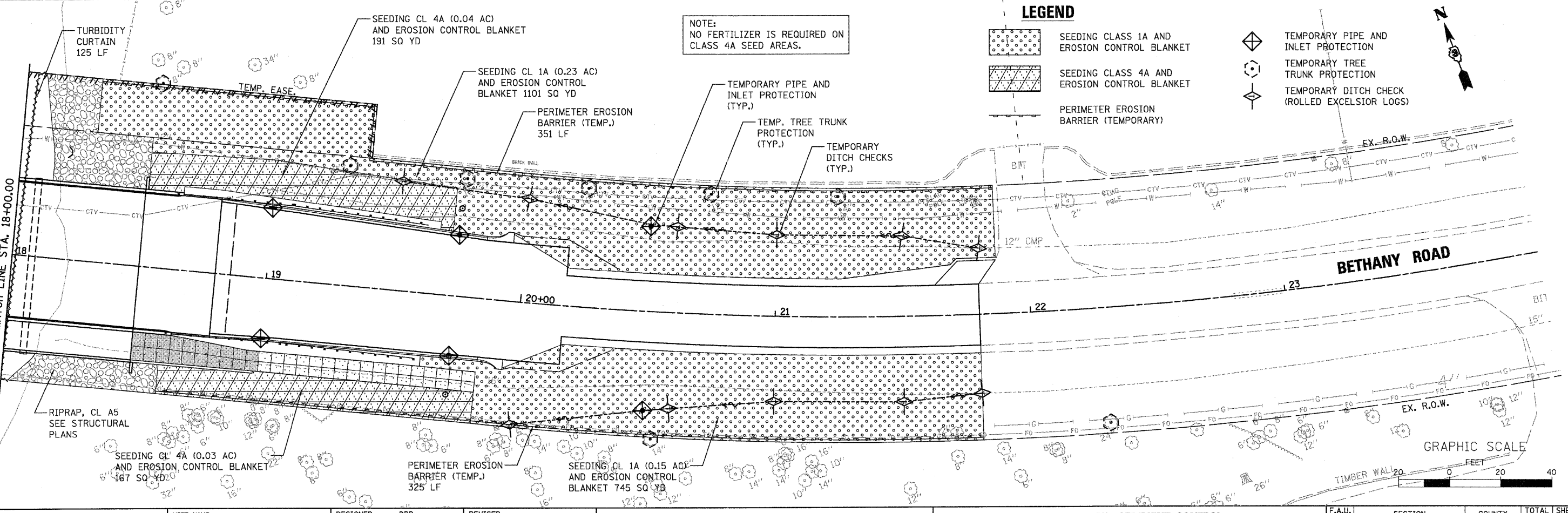
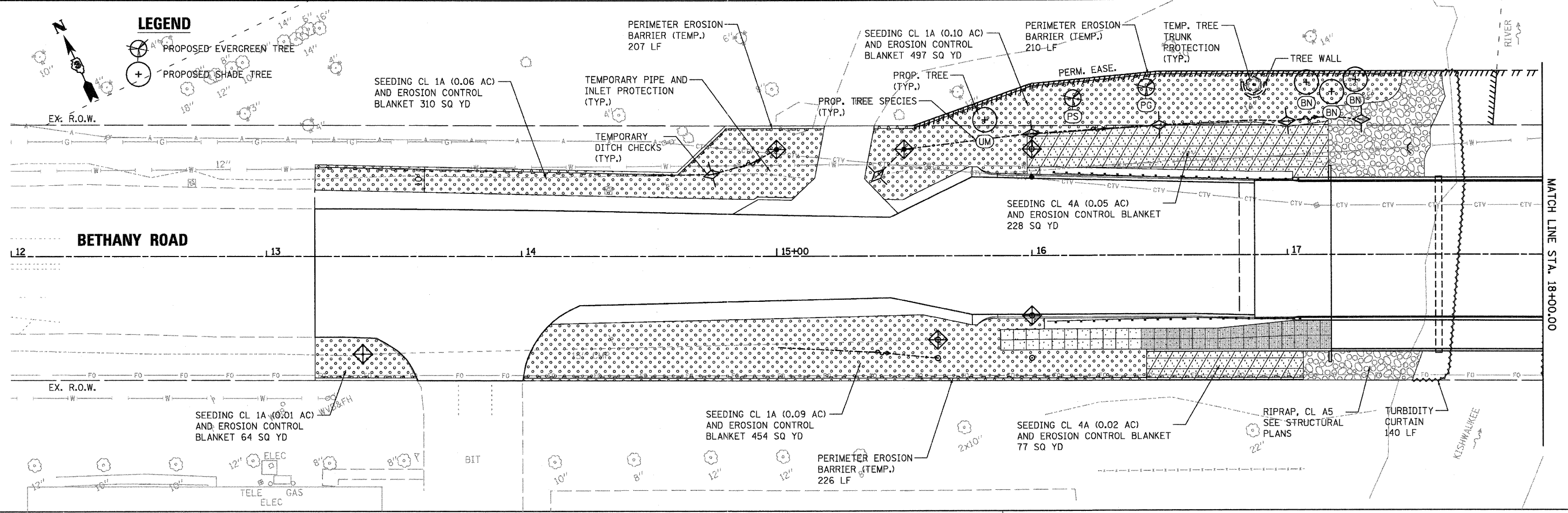
WILLS BURKE KELSEY ASSOCIATES LTD.
119 West Main Street, Suite 201
St. Charles, Illinois 60174

USER NAME = nparr18	DESIGNED - DPB	REVISED -
PLOT SCALE = AS SHOWN	DRAWN - KMA	REVISED -
PLOT DATE = 7/6/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC TEMPORARY BRIDGE TRAFFIC SIGNALS	
SCALE: AS SHOWN	SHEET NO. 37 OF 88 SHEETS
STA.	TO STA.

F.A.U. RTE. 5355	SECTION 04-00167-00-BR	COUNTY DEKALB	TOTAL SHEETS 88	SHEET NO. 37
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT			CONTRACT NO. 87491	



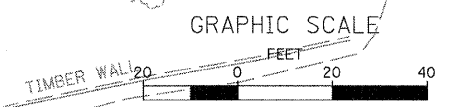
LEGEND

- PROPOSED EVERGREEN TREE
- PROPOSED SHADE TREE

LEGEND

- SEEDING CLASS 1A AND EROSION CONTROL BLANKET
- SEEDING CLASS 4A AND EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER (TEMPORARY)
- TEMPORARY PIPE AND INLET PROTECTION
- TEMPORARY TREE TRUNK PROTECTION
- TEMPORARY DITCH CHECK (ROLLED EXCELSIOR LOGS)

NOTE:
NO FERTILIZER IS REQUIRED ON CLASS 4A SEED AREAS.



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St. Charles, Illinois 60174

USER NAME = nparris	DESIGNED - DPB	REVISED -
PLOT SCALE = AS SHOWN	DRAWN - NDP	REVISED -
PLOT DATE = 7/6/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL
& LANDSCAPING PLAN**

SCALE: AS SHOWN SHEET NO. 38 OF 88 SHEETS STA. 13+19.00 TO STA. 21+80.00

F.A.U. RTE. 5355	SECTION 04-00167-00-BR	COUNTY DEKALB	TOTAL SHEETS 88	SHEET NO. 38
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

EROSION CONTROL INSPECTION

ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH 1/2" RAIN EVENT.

WINTER SHUT DOWN

A WINTER SHUT DOWN IS NOT ANTICIPATED FOR THIS PROJECT. BUT IN THE EVENT THAT UNAVOIDABLE CIRCUMSTANCE REQUIRE A WINTER SHUT DOWN, THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.

TEMPORARY DITCH CHECKS

THE PLANS HAVE A PLAN ALLOWANCE FOR FIVE (5) TEMPORARY DITCH CHECKS. THE DITCH CHECKS WILL BE REQUIRED AT THOSE LOCATIONS WHERE THE CONTRACTORS OPERATIONS REQUIRE TEMPORARY DITCHES OR SWALES. THE EXACT LOCATION WILL BE COORDINATED IN THE FIELD WITH THE ENGINEER.

PROTECTING STOCK PILE AREAS

CONTRACTOR MAY OPT TO STOCK PILE MATERIALS. STAGING OF THE PROJECT IS AT HIS DISCRETION OF THE CONTRACTOR AND COORDINATION OF STOCK PILES WILL BE WITH THE CITY OF DEKALB. STOCKPILES OF SOIL AND OTHER CONSTRUCTION MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES, NOT BEING ACTIVELY WORKED AND TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

KEEPING PAVEMENTS CLEAN

THE CONTRACTOR WILL KEEP ALL PERMANENT PAVEMENT SURFACES CLEAN OF DIRT OR CONSTRUCTION DEBRIS. THE PAVEMENT SHALL BE CLEANED AT THE END OF EACH DAYS OPERATION OR MORE FREQUENTLY AS REQUIRED BY THE ENGINEER IF THE DEBRIS IS DEEMED TO BE A HAZARD TO THE MOTORING PUBLIC.

GENERAL NOTES

- A) UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL REVISED FEBRUARY 2002.
- B) THE CITY OF DEKALB MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- C) A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- D) PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE CITY OF DEKALB FOR REVIEW.
- E) THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE CITY OF DEKALB.
- F) DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES, STORMWATER STRUCTURES, OR KISHWAUKEE RIVER IS PROHIBITED.
- G) IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.

CONSTRUCTION SEQUENCE NOTES

- A) CONSTRUCTION OF PIERS, EMBANKMENT AND RIP RAP ARE ANTICIPATED TO REQUIRE WORK WITHIN THE RIVER, WORK MUST BE TIMED TO TAKE PLACE DURING LOW FLOW CONDITIONS.
- B) BYPASS IS NOT ANTICIPATED FOR THIS PROJECT. HOWEVER, IF BYPASS IS NECESSARY, THE INLET OF THE HOSE SHALL BE PLACED IN A SUMP PIT AND THE OUTLET PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE RIVER FLOW.
- C) IF DEWATERING THE CONSTRUCTION AREA IS NECESSARY, ALL WATERS SHALL BE FILTERED BY USING FILTER BAGS OR AN ALTERNATIVE MEASURE. WATER MUST HAVE SEDIMENT REMOVED BEFORE BEING ALLOWED TO RETURN TO THE ORIGINAL RIVER.
- D) THE SIDE SLOPES MUST BE RESEEDED AND STABILIZED WITH AN APPROPRIATE EROSION CONTROL BLANKET PRIOR TO ACCEPTING FLOWS. THE BOTTOM OF THE SWALE MUST BE BROUGHT BACK TO ITS ORIGINAL GRADE AND STABLE ENOUGH TO ACCEPT FLOWS.

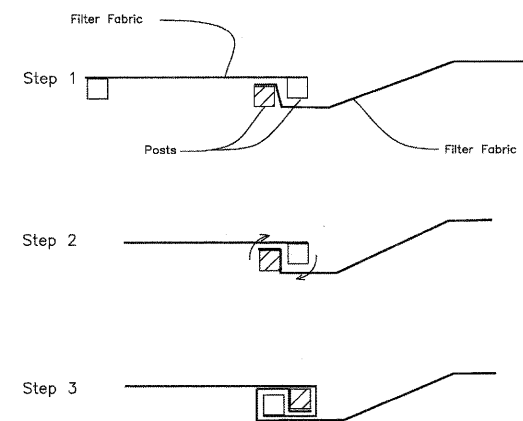
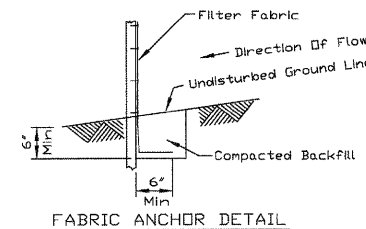
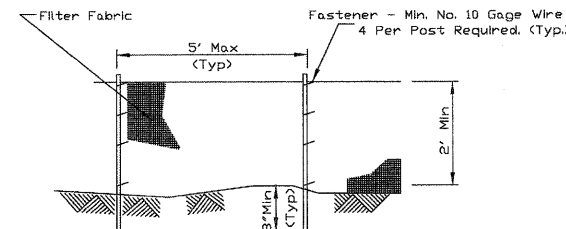
DEWATERING - BASIS OF PAYMENT

DEWATERING FOR ALL CONSTRUCTION OPERATIONS WILL NOT BE MEASURED SEPERATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF CONCRETE STRUCTURES. DEWATERING WILL INCLUDE MEANS, METHODS AND ALL MATERIALS TO DEWATER AND TO PROVIDE FILTRATION OF WATERS BEFORE RE-ENTERING THE RIVER.

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING						*	*	A				
DORMANT SEEDING	B										B	
TEMPORARY SEEDING			C									
EROSION CONTROL BLANKET								D				

- A. CLASS 1A CLASS 4A (NO FERTILIZER REQ.)
- B. INCREASE SEEDING RATES BY 25% WHEN DORANT SEEDING (NOT ANTICIPATED)
- C. TEMPORARY SEEDING (PERENIAL RYE GRASS, SPRING OATS)
- D. EROSION CONTROL BLANKET (EXCELSIOR) (PERMANENT SEED AREAS ONLY)

NOTE: IRRIGATION MAY BE NEEDED DURING JUNE AND JULY SEEDING TO BE COMPLETED PER REQUIREMENTS OF SECTION 250 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGES.



- NOTES:
- TEMPORARY SEDIMENT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
 - FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS I WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
 - FENCE POSTS SHALL BE EITHER STANDARD STEEL POST OR WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 3.0 SQ. IN.
 - PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.
 - ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.
 - DRIVE BOTH POSTS A MINIMUM OF 18 INCHES INTO THE GROUND AND BURY THE FLAP.

PERIMETER EROSION BARRIER (SILT FENCE) DETAILS

FILE NAME = M:\Projects\2010\1020254 - Berthel\B-roads\Civil\Sign\SI\EROS-2.dgn

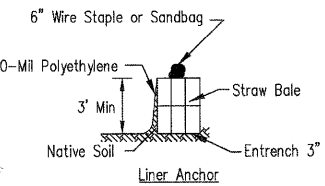
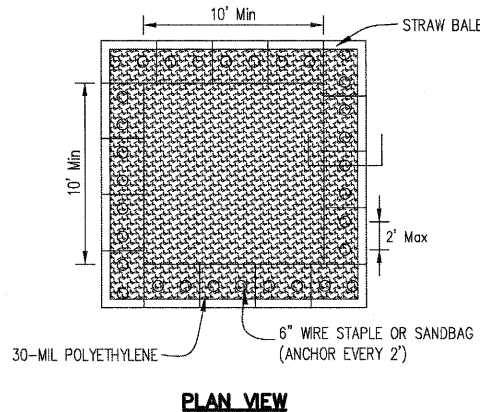
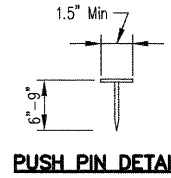
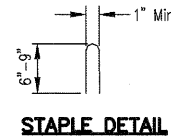
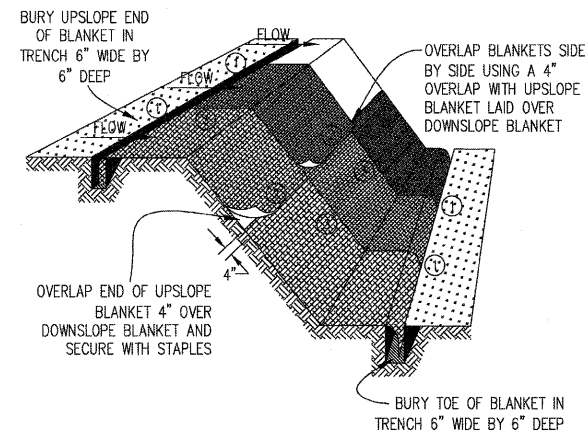
WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174

USER NAME = nparris	DESIGNED - DPB	REVISED -
PLOT SCALE =	DRAWN - NDP	REVISED -
PLOT DATE = 7/6/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

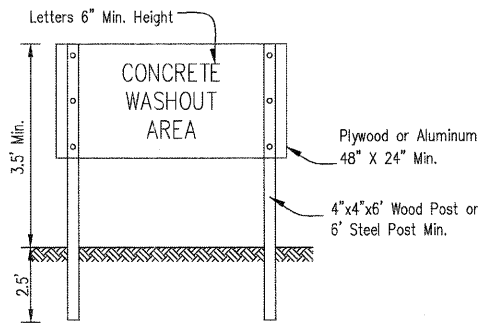
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL DETAILS	
SCALE:	SHEET NO. 39 OF 88 SHEETS STA. TO STA.

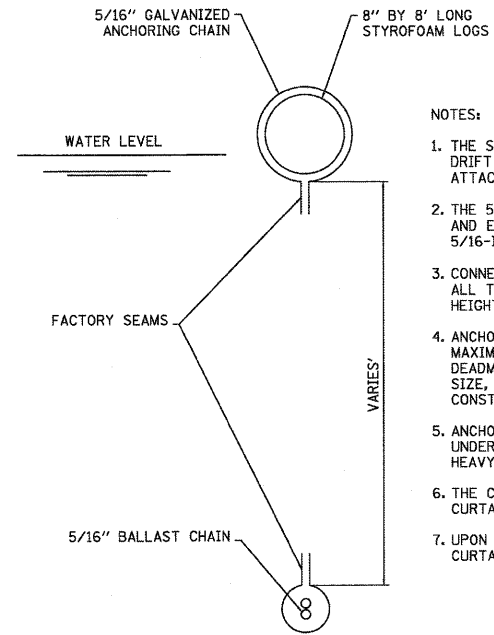
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	39
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				



PLAN VIEW



SIGN DETAIL



SECTION
TURBIDITY CURTAIN
(FLOATING SILT CURTAIN)

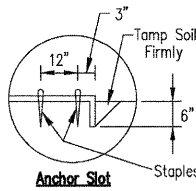
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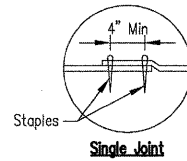
1. THE SILT CURTAIN SHALL BE INSTALLED IN SUCH A MANNER AS TO PREVENT DRIFT SHOREWARD OR DOWNSTREAM. THE FLOATATION LOG SHALL BE SECURELY ATTACHED TO THE FABRIC IN BOTH THE HORIZONTAL AND VERTICAL DIRECTION.
2. THE 5/16-INCH CABLE SHALL BE ATTACHED ABOVE THE FLOATATION MEMBERS AND EXTEND THE ENTIRE LENGTH OF EACH SECTION OF SILT CURTAIN. A 5/16-INCH CHAIN SHALL BE SEALED ON THE LOWER HEM FOR BALLAST.
3. CONNECTORS SHALL JOIN THE MAIN LOAD LINE AND BALLAST CHAIN TO CARRY ALL TENSILE PRESSURE. THE FABRIC SHALL BE JOINTED FOR ITS ENTIRE HEIGHT.
4. ANCHORAGE'S SHALL BE INSTALLED ON BOTH SHORE AND STREAM SIDE TO MAXIMUM STABILITY. SHORE ANCHORS SHALL CONSIST OF A POST WITH DEADMAN OR APPROVED EQUAL. STREAM ANCHORS SHALL BE OF SUFFICIENT SIZE, TYPE AND STRENGTH TO STABILIZE THE BARRIER BEYOND THE CONSTRUCTION AREA.
5. ANCHORS SHALL BE BUOYED TO PREVENT THE SILT CURTAIN FROM BEING PULLED UNDER WATER. DANFORTH-TYPE ANCHORS SHALL BE USED IN SANDY BOTTOM AND HEAVY KEDGE TYPE OR MUSHROOM ANCHORS ON MUD BOTTOMS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THE SILT CURTAIN THROUGHOUT CONSTRUCTION OPERATIONS.
7. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL REMOVE THE SILT CURTAIN IN A MANNER THAT WILL PREVENT SILTATION OF THE RIVER/CREEK.

NOTES:

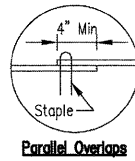
1. STAPLES SHALL BE PLACED IN A DIAMOND PATTERN AT 2 PER S.Y. FOR STITCHED BLANKETS. NON-STICHED SHALL USE 4 STAPLES PER S.Y. OF MATERIAL. THIS EQUATES TO 200 STAPLES WITH STITCHED BLANKET AND 400 STAPLES WITH NON-STICHED BLANKET PER 100 S.Y. OF MATERIAL
2. STAPLE OR PUSH PIN LENGTHS SHALL BE SELECTED BASED ON SOIL TYPE AND CONDITIONS. (MINIMUM STAPLE LENGTH IS 6")
3. EROSION CONTROL MATERIAL SHALL BE PLACED IN CONTACT WITH THE SOIL OVER A PREPARED SEEDBED.
4. ALL ANCHOR SLOTS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.



DETAIL 1

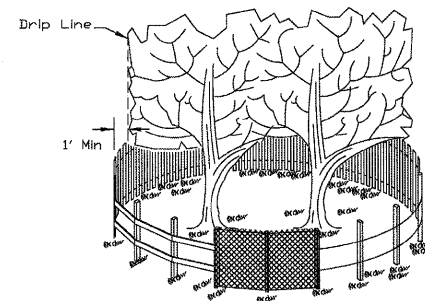


DETAIL 2

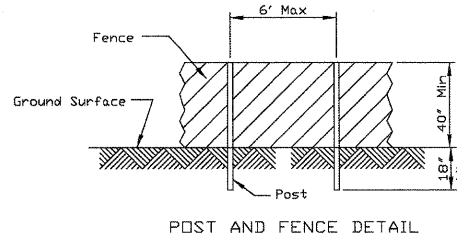


DETAIL 3

**EROSION CONTROL
BLANKET INSTALLATION DETAILS**



SIDE VIEW



POST AND FENCE DETAIL

NOTES:

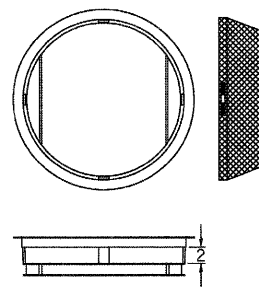
1. THE FENCE SHALL BE LOCATED A MINIMUM OF 1 FOOT OUTSIDE THE DRIP LINE OF THE TREE TO BE SAVED AND IN NO CASE CLOSER THAN 5 FEET TO THE TRUNK OF ANY TREE.
2. FENCE POSTS SHALL BE EITHER STANDARD STEEL POSTS OR WOOD POSTS WITH A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQ. IN.
3. THE FENCE MAY BE EITHER 40" HIGH SNOW FENCE, 40" PLASTIC WEB FENCING OR ANY OTHER MATERIAL AS APPROVED BY THE ENGINEER/INSPECTOR.
4. TO BE PAID FOR AS "TREE TRUNK PROTECTION."

TREE PROTECTION FENCING

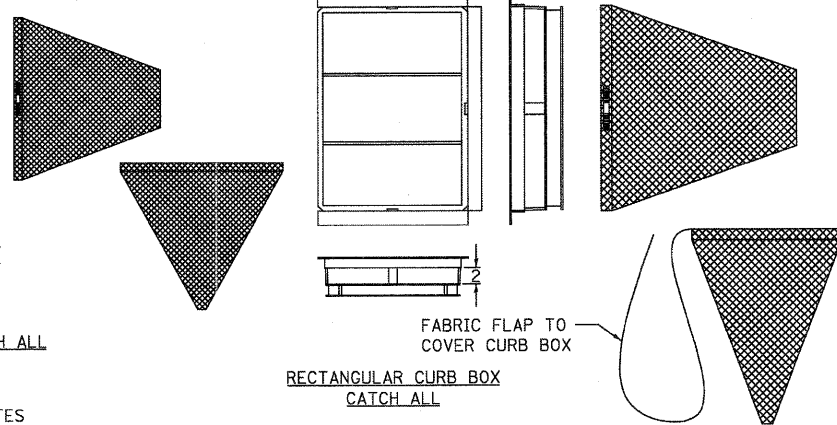
NOTES:

1. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND/OR SLURRY AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION.
2. FACILITY SHALL BE CLEANED OR RECONSTRUCTED IN A NEW AREA ONCE WASHOUT BECOMES TWO-THIRDS FULL.
3. EACH STRAW BALE IS TO BE STAKED IN PLACE USING (2) 2"x2"x4' WOODEN STAKES.

**TEMPORARY CONCRETE
WASHOUT FACILITY - STRAW BALE**



ROUND CATCH ALL



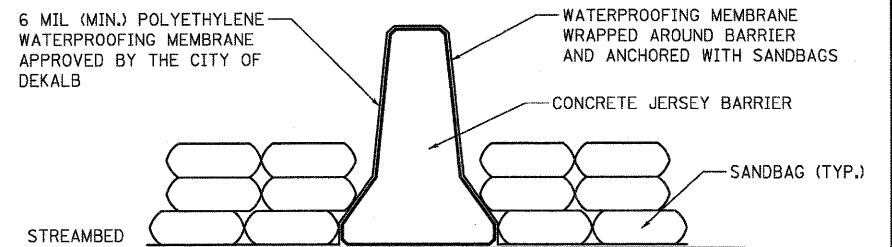
RECTANGULAR CURB BOX
CATCH ALL

GENERAL NOTES

FRAME: TOP FLANGE FABRICATED FROM 1/4"x1/4"x1/8" ANGLE. BASE RIM FABRICATED FROM 1/2"x1/2"x1/8" CHANNEL. HANDLS AND SUSPENSION BRACKETS FABRICATED FROM 1/4"x1/4" FLAT STOCK. ALL STEEL CONFORMING TO ASTM-A36.

SEDIMENT BAG: BAG FABRICATED FROM 4 OZ./SQ.YD. NON-WOVEN POLYPROPYLENE GEOTEXTILE REINFORCED WITH POLYESTER MESH. BAG SECURED TO BASE RIM WITH A STAINLESS STEEL BAND AND LOCK.

INLET PROTECTION DETAIL



JERSEY BARRIER COFFERDAM

NOTES

1. THE JERSEY BARRIER COFFERDAM IS AN APPROVED SYSTEM FOR PROVIDING PROTECTION OF THE EXCAVATION FROM FLOWING WATER. THE CONTRACTOR MAY ELECT TO USE THIS SYSTEM FOR DEWATERING OR MAY PROPOSE AN ALTERNATE SYSTEM.
- IN EITHER CASE, THE CONTRACTOR SHALL SUBMIT A PLAN FOR THE SUBJECT PROTECTION WHICH SHALL ADDRESS THE SIZE AND LENGTH OF THE DEWATERING AREA, PROPOSED CONSTRUCTION SEQUENCE, INCLUDING WATER DIVERSION AND/OR DEWATERING METHODS, EROSION AND SEDIMENT CONTROL MEASURES, SEDIMENT TRAPS, DISPOSAL OF EXCAVATED MATERIAL, EFFLUENT WATER, ALONG WITH BEST MANAGEMENT PRACTICES TO PREVENT REINTRODUCTION OF EXCAVATED MATERIAL INTO FLOWING WATER. THE PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE CITY OF DEKALB BEFORE EXCAVATION PROTECTION AND CONSTRUCTION BEGIN.
2. THE COST FOR THE ISOLATION AND PROTECTION OF THE EXCAVATION AND CONSTRUCTION SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR REMOVAL OF EXISTING STRUCTURES.
3. THE COFFERDAM SHALL REMAIN IN PLACE FOR REMOVAL OF THE EXISTING PIER AND CONSTRUCTION OF THE NEW PIER.
4. WHEN THE EXCAVATION PROTECTION IS NO LONGER REQUIRED, IT SHALL BE REMOVED ACCORDING TO THE CONTRACTOR'S PLAN UNLESS OTHERWISE SPECIFIED BY THE CITY OF DEKALB. THE DISTRICT SHALL BE NOTIFIED WHEN THE PROTECTION IS TO BE REMOVED. ALL MATERIALS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

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WBK
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116 West Main Street, Suite 201
St. Charles, Illinois 60174

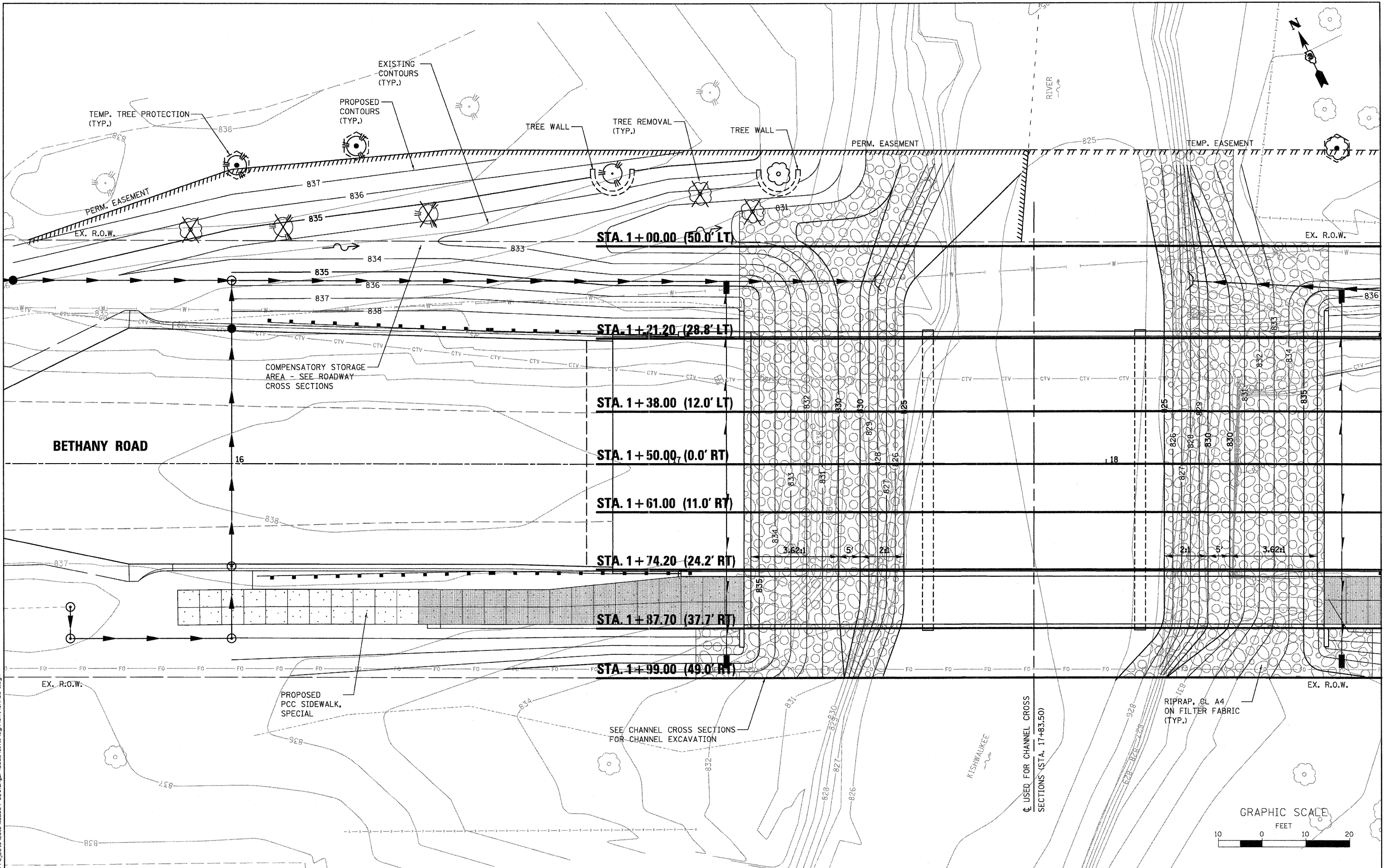
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PLOT DATE = 7/8/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL DETAILS	
SCALE: STA. TO STA.	SHEET NO. 40 OF 88 SHEETS

F.A.U. RTE. 5355	SECTION 04-00167-00-BR	COUNTY DEKALB	TOTAL SHEETS 88	SHEET NO. 40
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

CONTRACT NO. 87491



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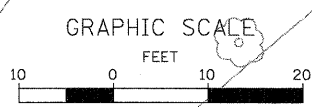
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WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174

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	DATE - 7/8/11	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

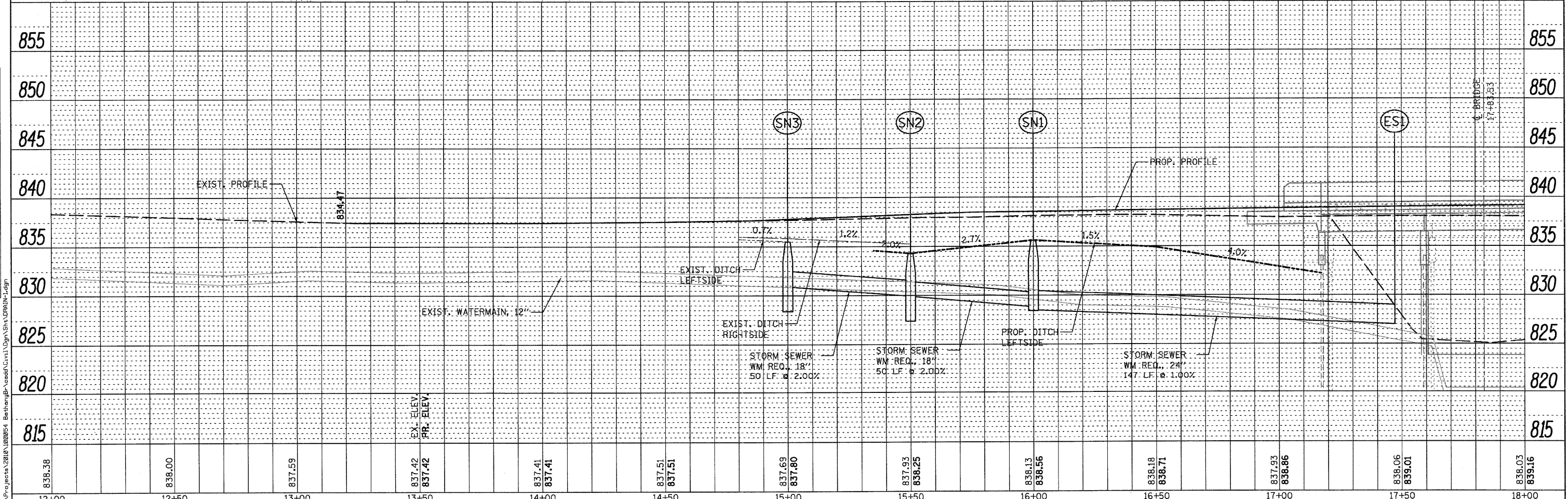
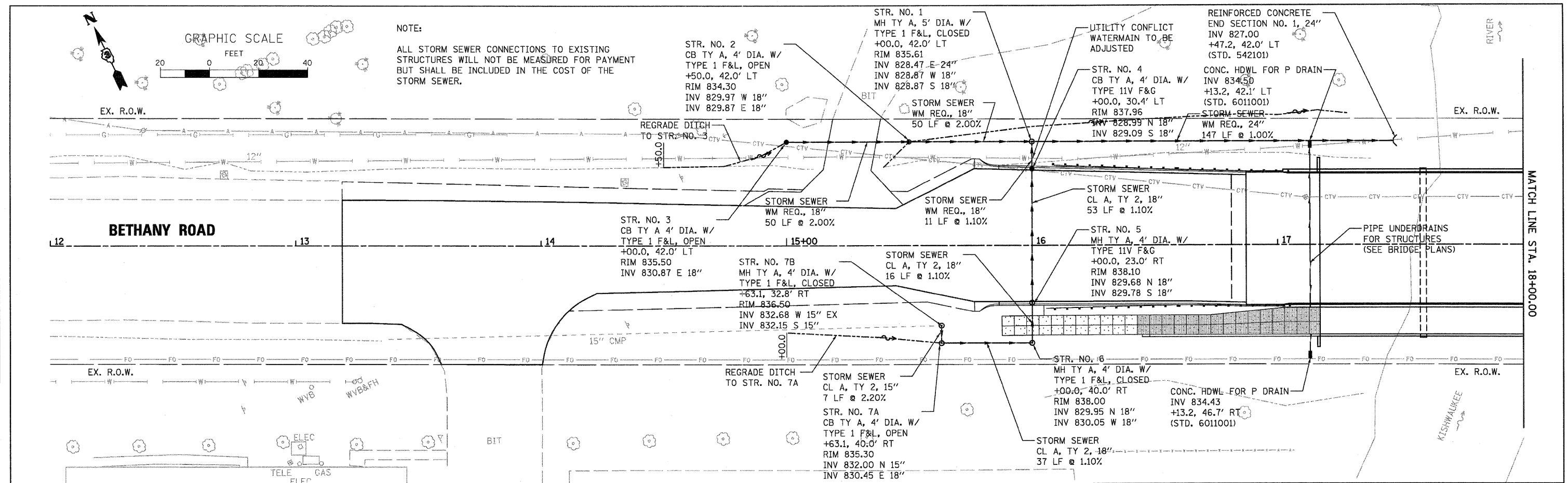
COMPENSATORY STORAGE AND CHANNEL EXCAVATION GRADING PLAN	
SCALE: AS SHOWN	SHEET NO. 41 OF 88 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	41
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				



DATE	
BY	
REVIEWED	
PLANNED	
ALIGNED	
CHECKED	
NO.	
NOTE BOOK	
NO.	
CADD FILE NAME	

DATE	
BY	
REVIEWED	
PLANNED	
ALIGNED	
CHECKED	
NO.	
NOTE BOOK	
NO.	
STRUCTURE NOTATIONS SHEET	



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12+00	12+50	13+00	13+50	14+00	14+50	15+00	15+50	16+00	16+50	17+00	17+50	18+00

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St. Charles, Illinois 60174

USER NAME = npprr1s	DESIGNED - DPB	REVISED -
PLOT SCALE = AS SHOWN	DRAWN - NDP	REVISED -
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	DATE - 7/8/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

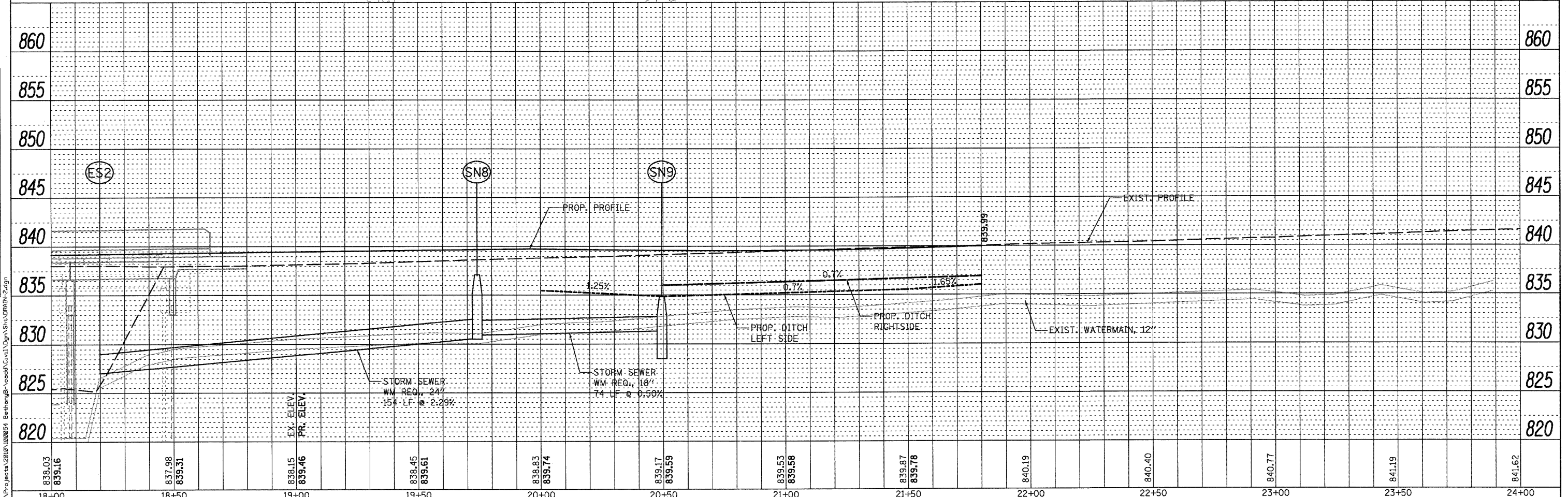
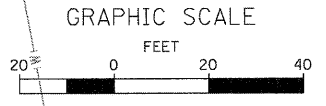
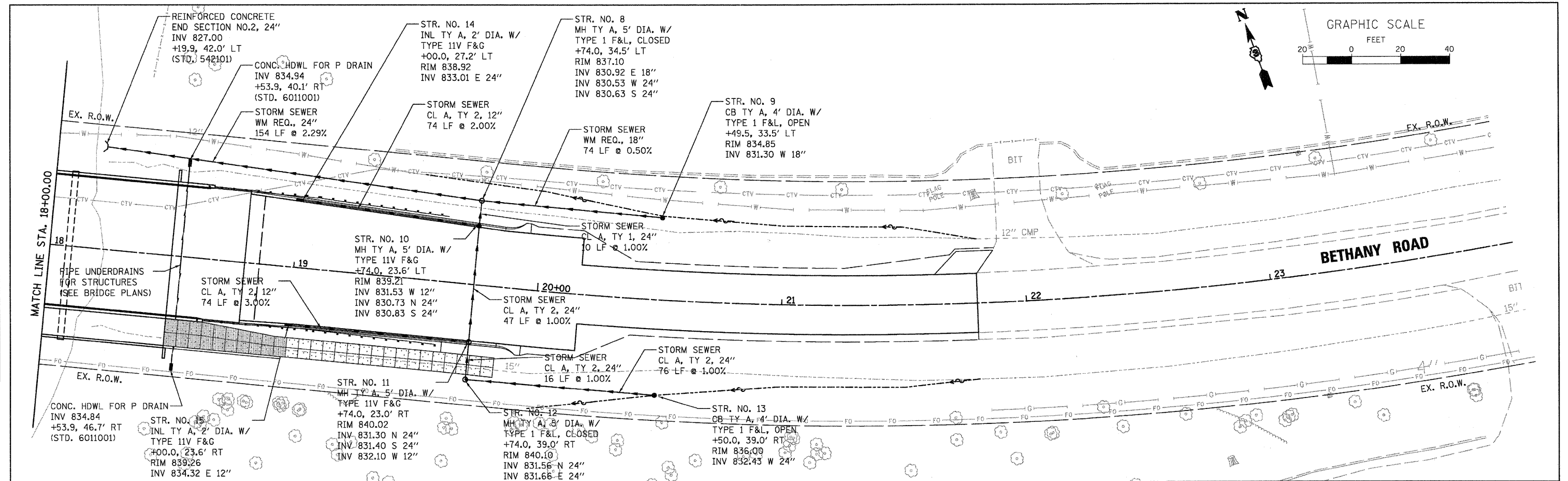
DRAINAGE AND UTILITIES
PLAN & PROFILE

SCALE: AS SHOWN SHEET NO. 42 OF 88 SHEETS STA. 13+19.00 TO STA. 18+00.00

F.A.U. R.T.E. 5355	SECTION 04-00167-00-BR	COUNTY DEKALB	TOTAL SHEETS 88	SHEET NO. 42
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT			CONTRACT NO. 87491	

DATE	
BY	
REVISIONS	
NO.	
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REVISIONS	
NO.	
DESCRIPTION	



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18+00		18+50		19+00		19+50		20+00		20+50		21+00		21+50		22+00	22+50	23+00	23+50	24+00

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116 West Main Street, Suite 201
St. Charles, Illinois 60174

USER NAME = nparr1a	DESIGNED - DPB	REVISED -
PLOT SCALE = AS SHOWN	DRAWN - NDP	REVISED -
PLOT DATE = 7/6/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

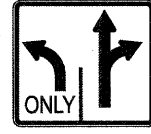
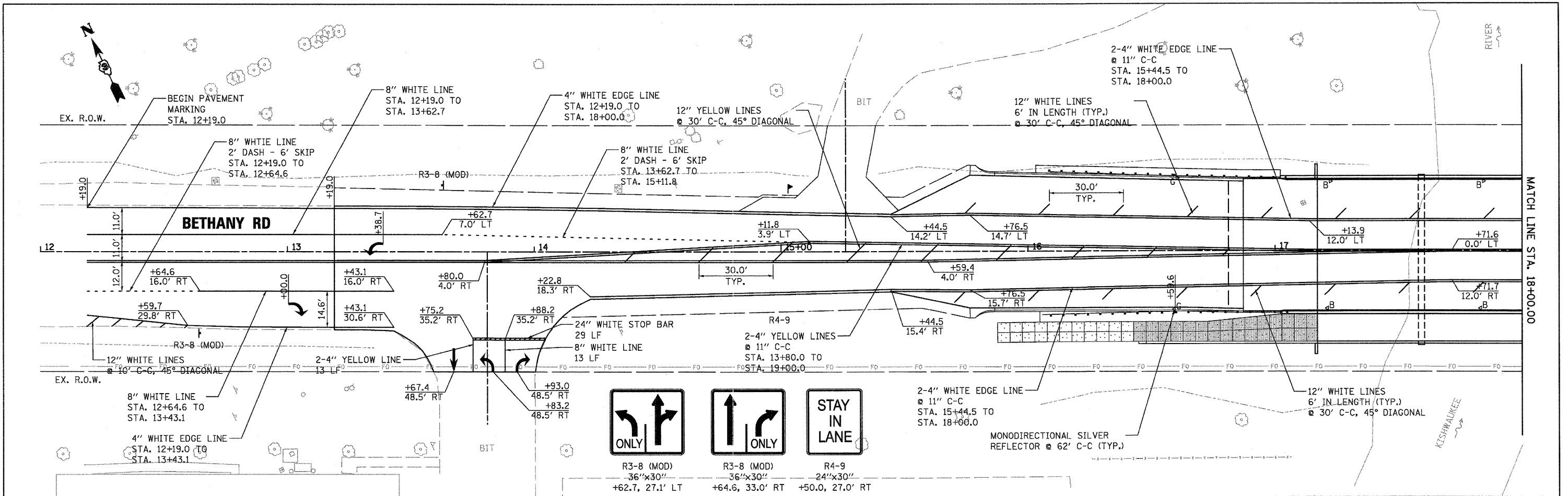
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE AND UTILITIES
PLAN & PROFILE**

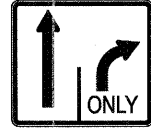
SCALE: AS SHOWN SHEET NO. 43 OF 88 SHEETS STA. 18+00.00 TO STA. 21+80.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	43
FED. ROAD DIST. NO. 3 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 87491	

FILE NAME = W:\P\projects\2210\100954 BethanyRd\cadd\Civil\Drawings\DRAIN-2.dgn



R3-8 (MOD)
36"x30"
+62.7, 27.1' LT



R3-8 (MOD)
36"x30"
+64.6, 33.0' RT



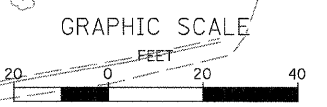
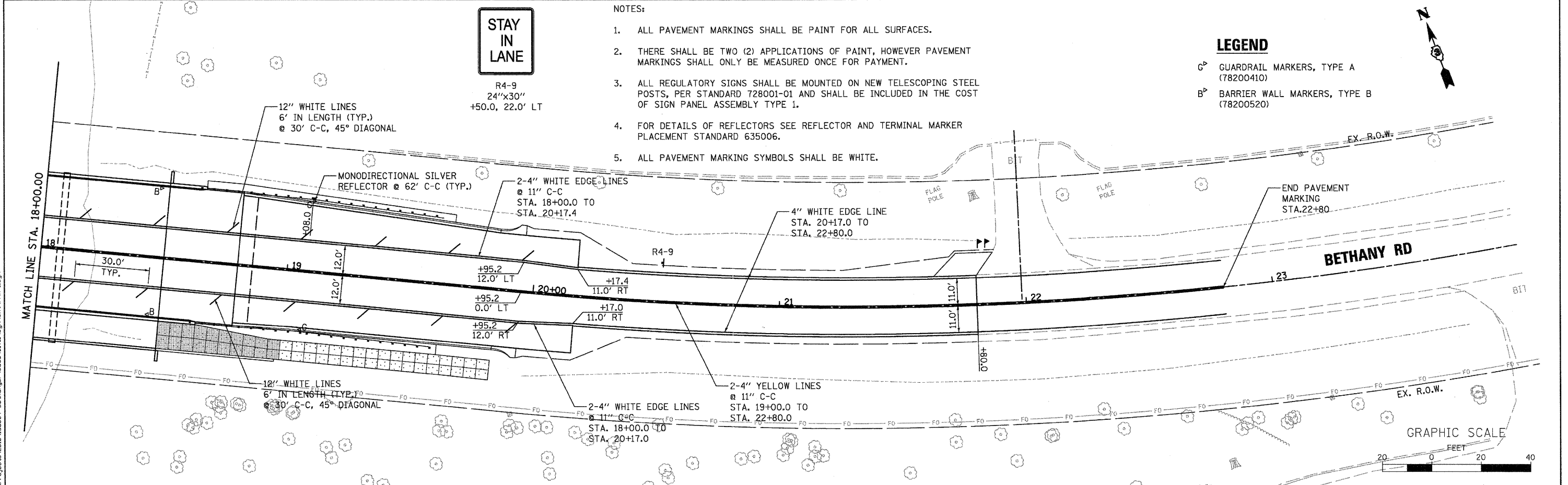
R4-9
24"x30"
+50.0, 27.0' RT

NOTES:

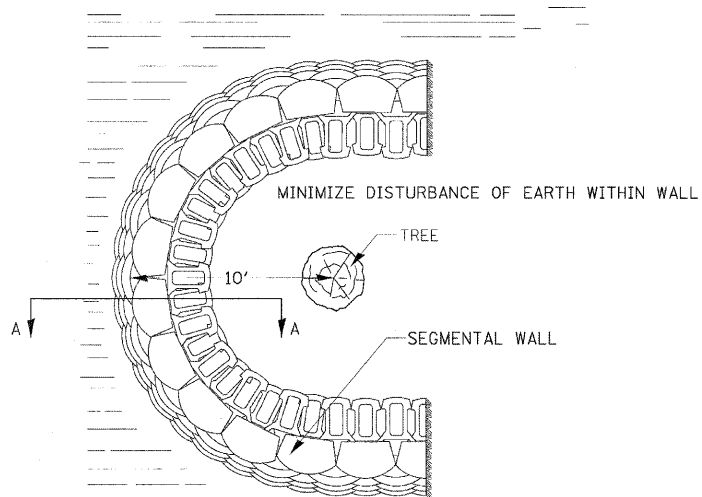
1. ALL PAVEMENT MARKINGS SHALL BE PAINT FOR ALL SURFACES.
2. THERE SHALL BE TWO (2) APPLICATIONS OF PAINT, HOWEVER PAVEMENT MARKINGS SHALL ONLY BE MEASURED ONCE FOR PAYMENT.
3. ALL REGULATORY SIGNS SHALL BE MOUNTED ON NEW TELESCOPING STEEL POSTS, PER STANDARD T28001-01 AND SHALL BE INCLUDED IN THE COST OF SIGN PANEL ASSEMBLY TYPE 1.
4. FOR DETAILS OF REFLECTORS SEE REFLECTOR AND TERMINAL MARKER PLACEMENT STANDARD 635006.
5. ALL PAVEMENT MARKING SYMBOLS SHALL BE WHITE.

LEGEND

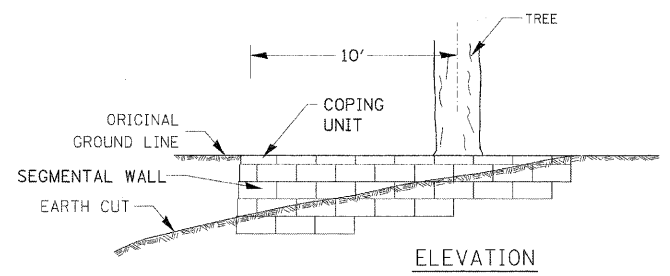
- G^o GUARDRAIL MARKERS, TYPE A (78200410)
- B^o BARRIER WALL MARKERS, TYPE B (78200520)



WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174	USER NAME = nparris	DESIGNED - DPB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING PLAN		F.A.U. RTE. 5355	SECTION 04-00167-00-BR	COUNTY DEKALB	TOTAL SHEETS 88	SHEET NO. 44
	PLOT SCALE = AS SHOWN	DRAWN - NDP	REVISED -		SCALE: AS SHOWN	SHEET NO. 44 OF 88 SHEETS	STA. 12+19.00 TO STA. 22+80.00	FED. ROAD DIST. NO. 3 [ILLINOIS] FED. AID PROJECT			
PLOT DATE = 7/6/2011	CHECKED - SBP	DATE - 7/8/11	REVISED -	CONTRACT NO. 87491							



PLAN
STA. 16+87.0
STA. 17+20.0



ELEVATION
HEIGHT OF WALL DEPENDENT ON SLOPE OF THE CUT.
* THE RADIUS OF THE TREE WALL SHALL BE DETERMINED BY MULTIPLYING 6 BY THE DIAMETER OF THE TREE, WITH A MAXIMUM OF A 12' RADIUS.
USE 8" HIGH BLOCKS EXCEPT WHEN HEIGHT OF WALL IS LESS THAN 24". THEN 4" HIGH BLOCKS SHALL BE USED.

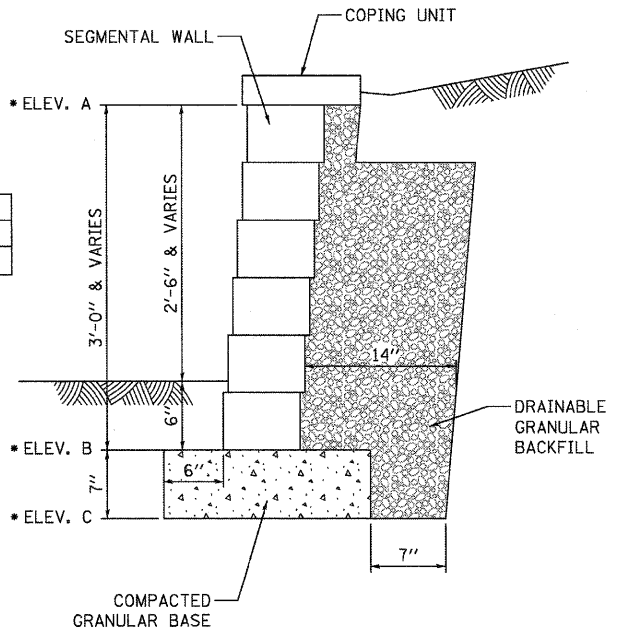
NOTES

SPECIAL CARE SHALL BE TAKEN BY THE CONTRACTOR NOT TO DISTURB THE EARTH OR THE ROOTS WITHIN THE PROPOSED TREE WALL.
THESE TREE WALLS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT FOR SEGMENTAL CONCRETE BLOCK WALL, INCLUDED IN THIS SHALL BE THE FACE OF THE WALL THAT IS BURIED.
THE SEGMENTAL CONCRETE BLOCK WALL SHALL BE ROMAN PESA RETAINING WALL SYSTEM BY UNILOCK, LTD. OR EQUAL. THE COLOR SHALL BE SELECTED BY THE CITY.

TREE WALL ELEVATIONS

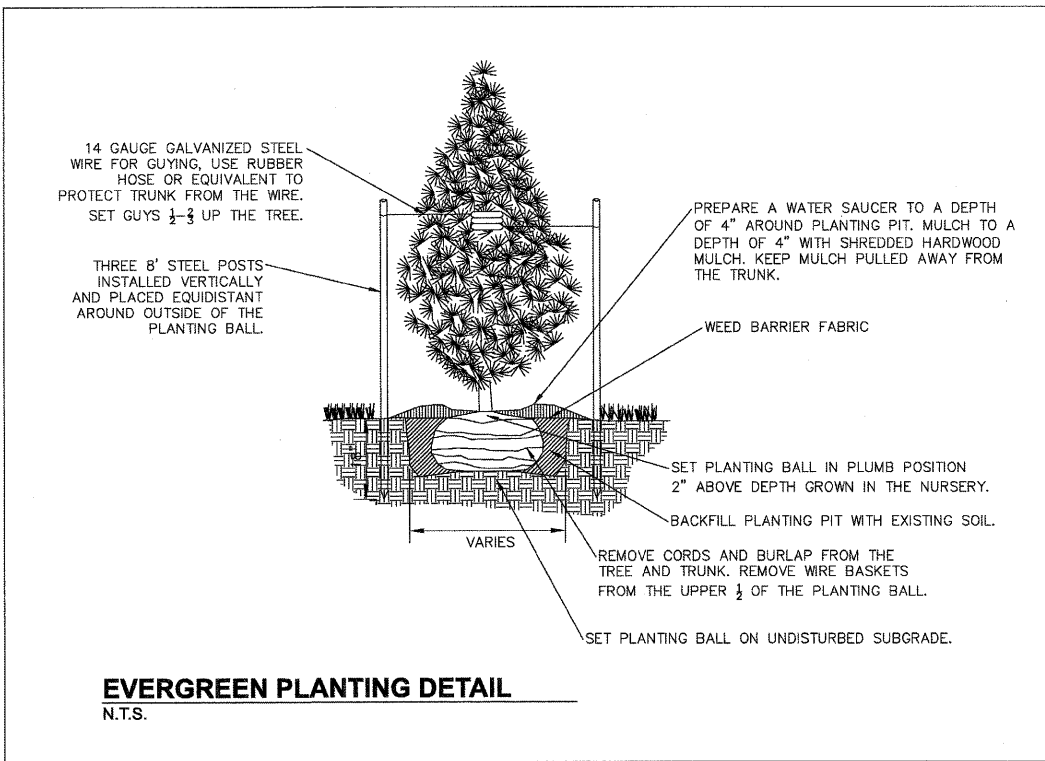
STATION	A	B	C
16+87.0	835.46	833.06	832.48
17+25.0	835.57	831.67	831.09

ELEVATIONS ARE APPROXIMATE AND SHALL BE VARIFIED IN THE FIELD BY THE CONTRACTOR.

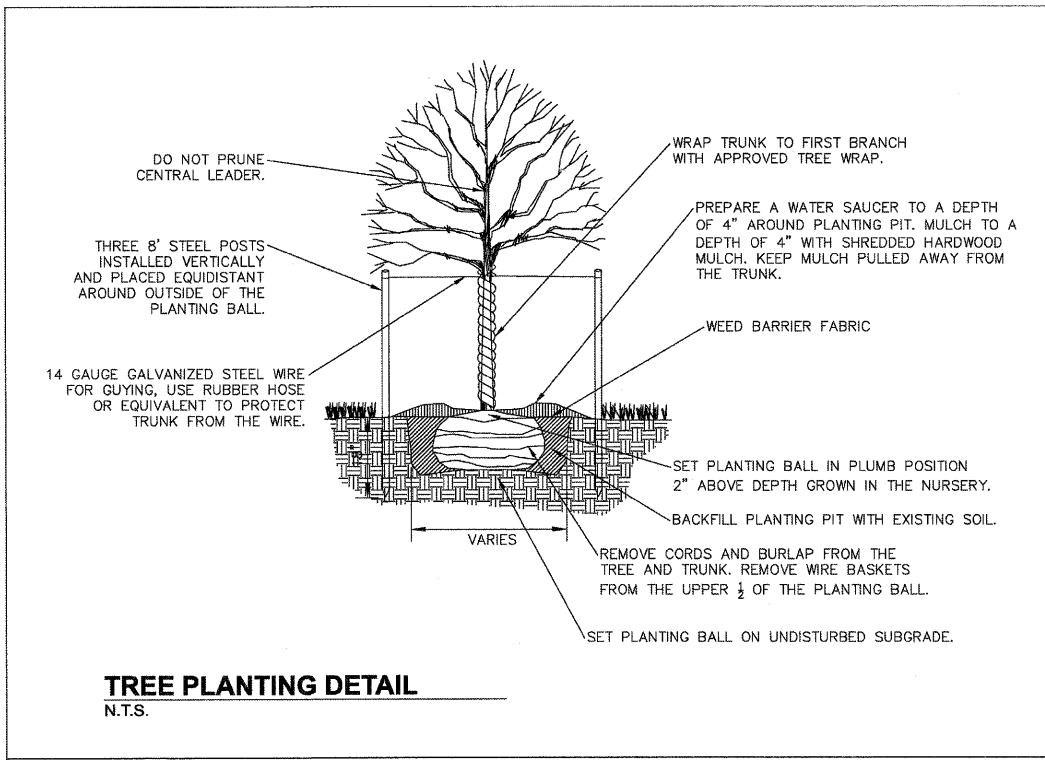


SECTION A-A

TREE WALL DETAIL



EVERGREEN PLANTING DETAIL
N.T.S.



TREE PLANTING DETAIL
N.T.S.

FILE NAME = W:\Projects\2011\080854_Berthel\B-land\Civil\Drawn\Sta\DT-1.dgn

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116 West Main Street, Suite 201
St. Charles, Illinois 60174

USER NAME = rjpar119	DESIGNED - DPB	REVISED -
PLOT SCALE =	DRAWN - NDP	REVISED -
PLOT DATE = 7/6/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING DETAILS

SCALE:	SHEET NO. 45 OF 88 SHEETS	STA.	TO STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	45
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

MINIMUM RESTRAINT LENGTH (FT) ON BOTH SIDES OF THE FITTING				
FITTING TYPE / NOMINAL SIZE	6"	8"	12"	16"
11 1/4° BEND	2	3	4	6
22 1/2° BEND	5	6	9	11
45° BEND	10	13	18	23
90° BEND	23	30	43	56
DEAD END	31	40	57	46
TOP SIDE OF A VERTICAL OFFSET ¹	19	25	35	46
TEE RUN X BRANCH ² 6" BY	24			
TEE RUN X BRANCH ² 8" BY	22	34		
TEE RUN X BRANCH ² 12" BY	18	31	51	
TEE RUN X BRANCH ² 16" BY	14	28	48	67
REDUCER ³ 8" BY	17			
REDUCER ³ 12" BY	42	30		
REDUCER ³ 16" BY	62	54	31	

¹ ALL JOINTS WITHIN THE LOWERED SECTION OF THE WATERMAIN SHALL BE RESTRAINED OR SHALL BE SOLID PIPE. THE ABOVE DISTANCES REFLECT THE REQUIRED RESTRAINT DISTANCE ON THE NORMALLY ELEVATED WATERMAIN EITHER SIDE OF THE 45° FITTING OF THE VERTICAL OFFSET (OR LOWERING)

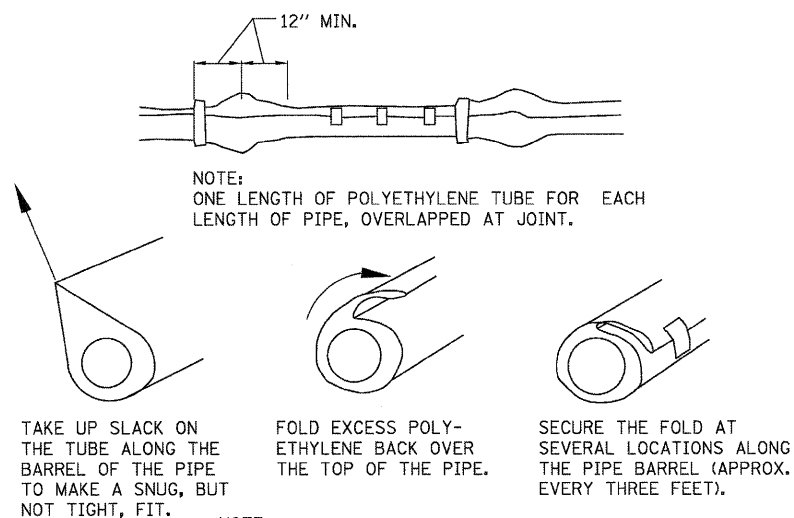
² MINIMUM OF 8 FT SOLID PIPE IS REQUIRED ON BOTH SIDES OF THE FITTING ON THE RUN SIDE. DISTANCE INDICATES THE LENGTH OF RESTRAINT ON THE BRANCH SIDE OR THE SIDE PERPENDICULAR TO THE TEE RUN WATERMAIN.

³ INDICATES THE DISTANCE FROM THE LARGER END OF THE REDUCER.

NOTES:

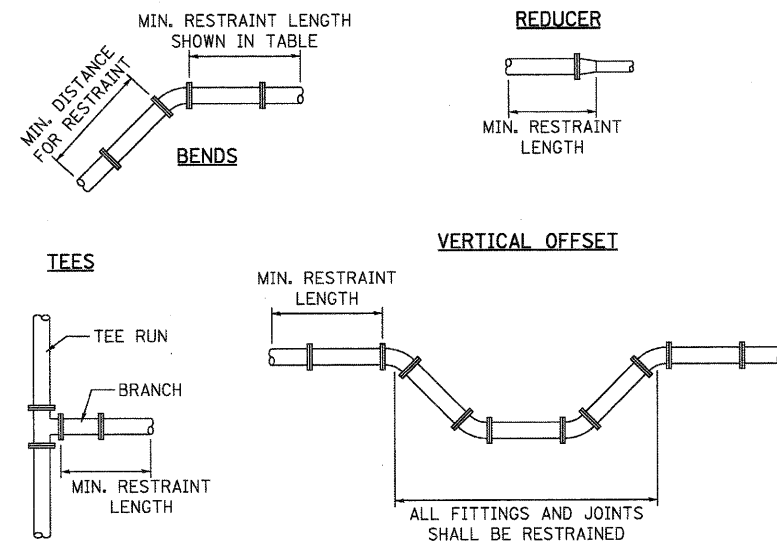
- 1) ALL NUTS AND BOLTS SHALL BE STAINLESS STEEL.
- 2) THE ENTIRE RESTRAINT SYSTEM FROM THE FITTING TO THE MINIMUM RESTRAINT DISTANCE MUST BE INSPECTED BY THE CITY OF DEKALB OR IT'S REPRESENTATIVE PRIOR TO BACKFILLING.

WATERMAIN RESTRAINT LENGTH TABLE



POLYETHYLENE ENCASMENT

N.T.S.

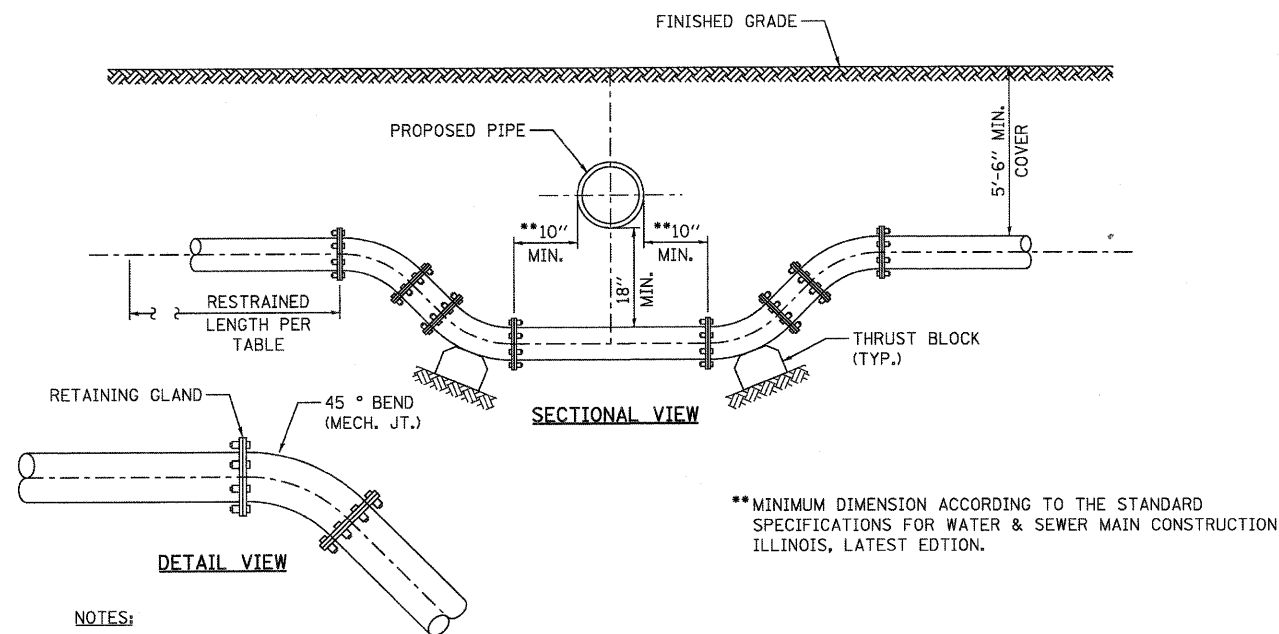


NOTES:

- 1) THE EXACT LENGTHS FOR RESTRAINTS ARE SHOWN IN THE WATERMAIN RESTRAINT LENGTH TABLE SHOWN IN THESE PLANS.

WATERMAIN RESTRAINT DETAIL

N.T.S.



NOTES:

- 1) FOR SIZES LARGER THAN 16", SPECIAL DESIGN WILL BE REQUIRED.
- 2) THE MECHANICAL JOINTS SHALL BE RESTRAINED WITH THE MEGALUG SERIES 1100 AS MANUFACTURED EBBA IRON INC. OR APPROVED EQUAL. ALSO, THE BELL AND SPIGOT JOINTS SHALL BE RESTRAINED ON EITHER SIDE OF THE MECHANICAL JOINTS BY EBBA IRON 1700 SERIES RESTRAINT OR APPROVED EQUAL AND THE RESTRAINT DISTANCE SHALL BE IN ACCORDANCE WITH THE WATERMAIN RESTRAINT LENGTH TABLE AND WATERMAIN RESTRAINT DETAIL SHOWN IN THESE PLANS.

WATERMAIN ADJUSTMENT DETAIL

N.T.S.

FILE NAME = \\A:\Projects\2011\1102064 - Bethany\DWG\1102064-2.dwg

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PLOT DATE = 7/6/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATERMAIN ADJUSTMENT DETAILS

SCALE: SHEET NO. 46 OF 88 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	46
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 [ILLINOIS] FED. AID PROJECT				

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

The Contractor is advised that the existing structure contains members that are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the existing structure when developing construction procedures for the complete or partial removal or replacement of the structure.

If the Contractor's procedures for existing deck beam removal involves placement of heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Cost included with Removal of Existing Structures.

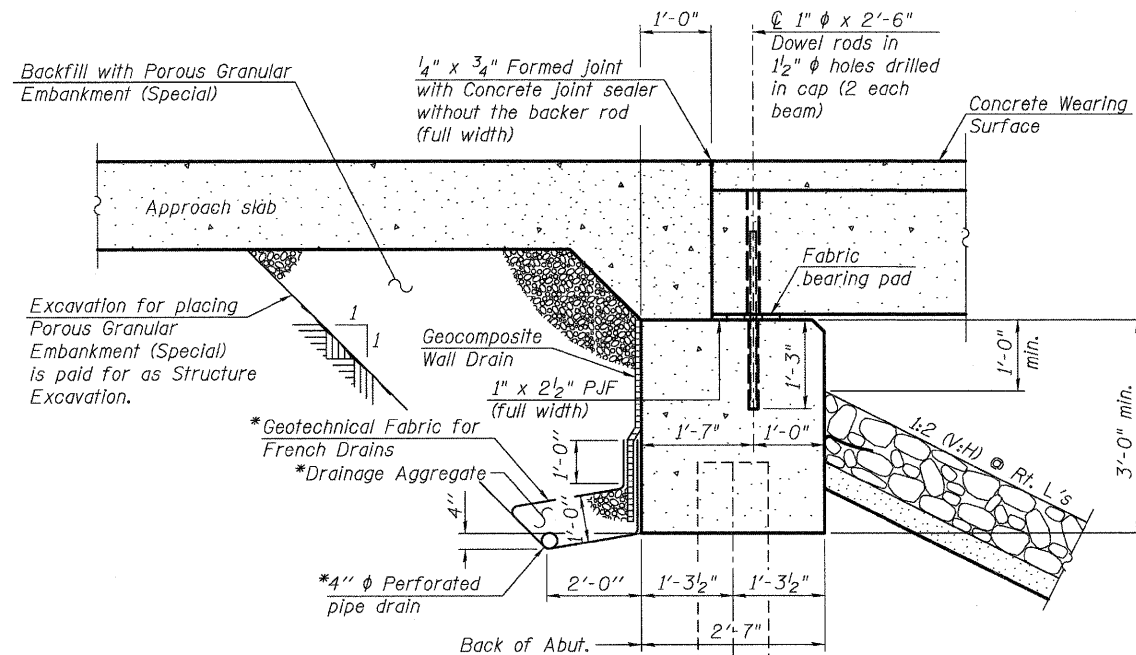
Slipforming of the parapets is not allowed.

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Stage Construction Details
4. Temporary Concrete Barrier for Stage Construction
5. Top of West Approach Slab Elevations
6. Top of East Approach Slab Elevations
7. Superstructure
8. Superstructure Details I
9. Superstructure Details II
10. Bridge Approach Slab Details (1 of 2)
11. Bridge Approach Slab Details (2 of 2)
12. Bridge Railing Details
13. 21"x48" PPC Deck Beam (Spans 1 & 3)
14. 21"x48" PPC Deck Beam (Span 2)
15. 21"x48" PPC Deck Beam Details
16. West Abutment
17. East Abutment
18. Piers 1 & 2
19. HP Pile Details
20. Bar Splicer Assembly Details
- 21-23. Soil Boring Logs
24. Flood Gauge Detail

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		1,018	1,018
Filter Fabric	Sq. Yd.		1,018	1,018
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		423	423
Concrete Structures	Cu. Yd.		316.5	316.5
Concrete Superstructure	Cu. Yd.	197.9		197.9
Bridge Deck Grooving	Sq. Yd.	1,095		1,095
Concrete Encasement	Cu. Yd.		8.4	8.4
Protective Coat	Sq. Yd.	1,512		1,512
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	9,010		9,010
Reinforcement Bars, Epoxy Coated	Pound	20,910	65,510	86,420
Bar Splicers	Each	134	318	452
Parapet Railing	Foot	326		326
Furnishing Steel Piles HP12x53	Foot		748	748
Furnishing Steel Piles HP14x73	Foot		1,232	1,232
Driving Piles	Foot		1,980	1,980
Test Pile Steel HP12x53	Each		2	2
Test Pile Steel HP14x73	Each		2	2
Name Plates	Each			1
Geocomposite Wall Drain	Sq. Yd.		59	59
Porous Granular Embankment, Special	Cu. Yd.		108	108
Underwater Structure Excavation Protection - Location 1	Each		1	1
Underwater Structure Excavation Protection - Location 2	Each		1	1
Concrete Wearing Surface, 5"	Sq. Yd.	1,002		1,002
Asbestos Bearing Pad Removal	Each		48	48
Steel Railing (Special)	Foot	133		133
Temporary Sheet Piling	Sq. Ft.		350	350
Pipe Underdrains for Structures, 4"	Foot		176	176

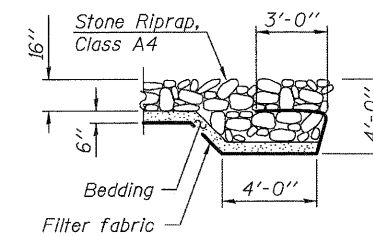


SECTION THRU ABUTMENT

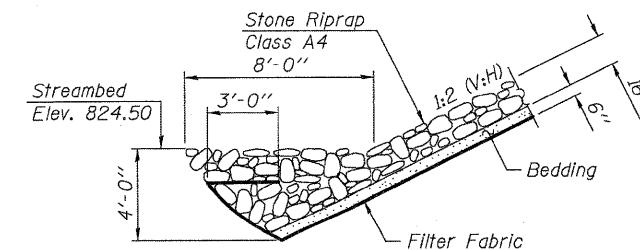
*Included in the cost of Pipe Underdrains for Structures.

Note:

All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



SECTION B-B



SECTION A-A

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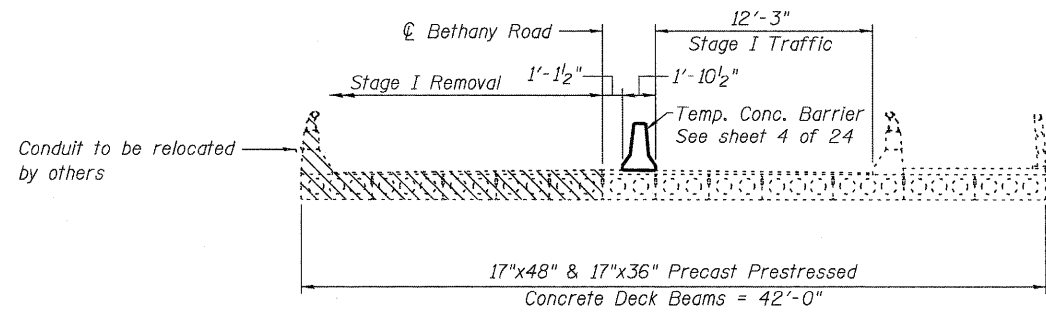
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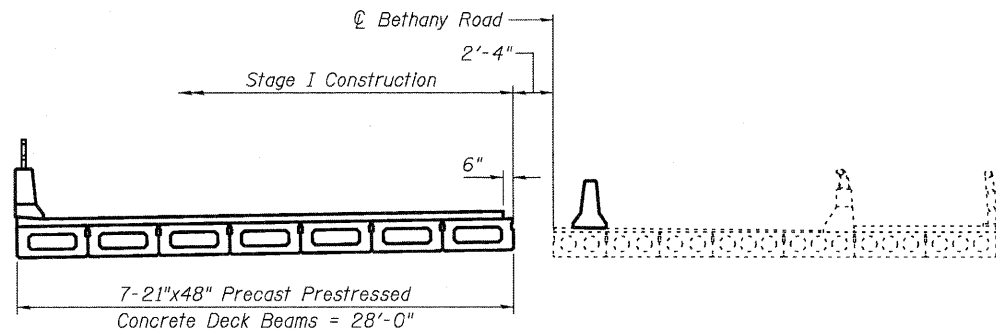
GENERAL DATA
STRUCTURE NO. 019-6107
 SHEET NO. 2 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

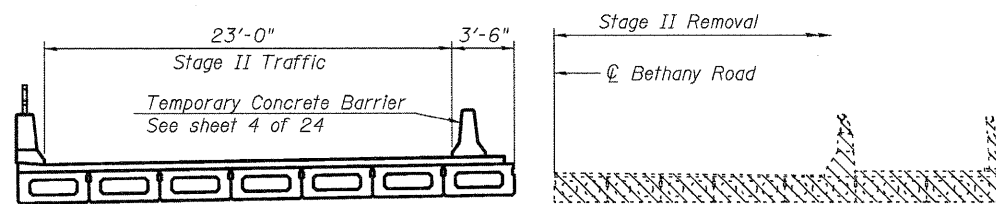
CONTRACT NO. 87491



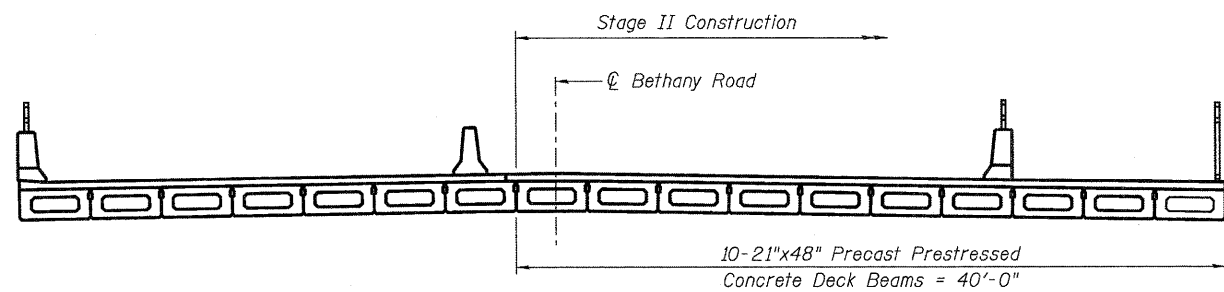
STAGE I REMOVAL & TRAFFIC



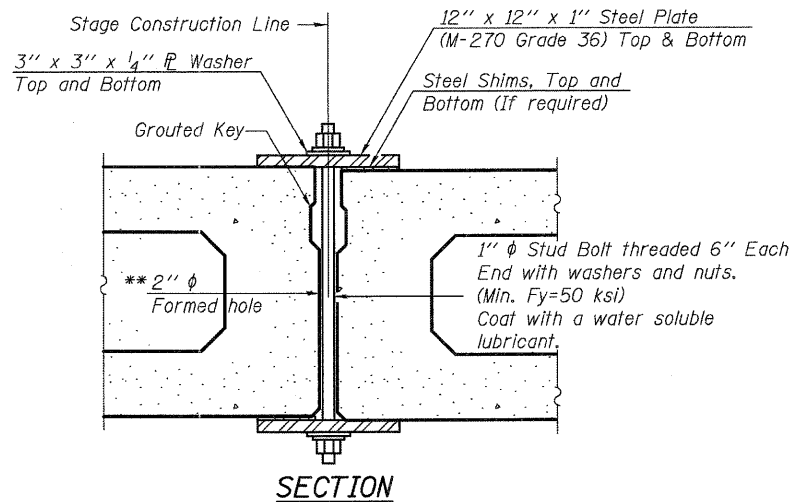
STAGE I CONSTRUCTION



STAGE II REMOVAL & TRAFFIC

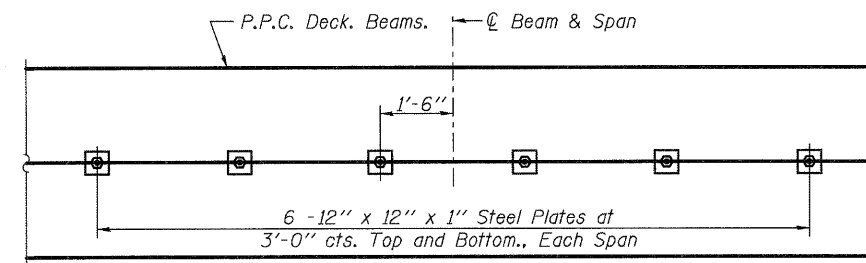


STAGE II CONSTRUCTION

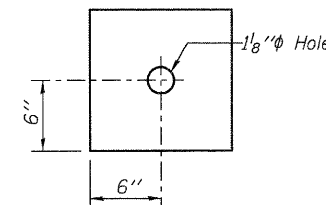


Notes:

All staging cross sections are looking North.
 Cross hatched area indicates Removal of Existing Structures.
 Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations.
 See Roadway Plans for quantity of Temporary Concrete Barrier.
 See sheet 4 of 24 for details of Temporary Concrete Barrier.
 Removal of existing bridge rail and bituminous wearing surface is included in the cost of Removal of Existing Structures.
 If the Contractor chooses to alter the temporary cantilever sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.



PLAN

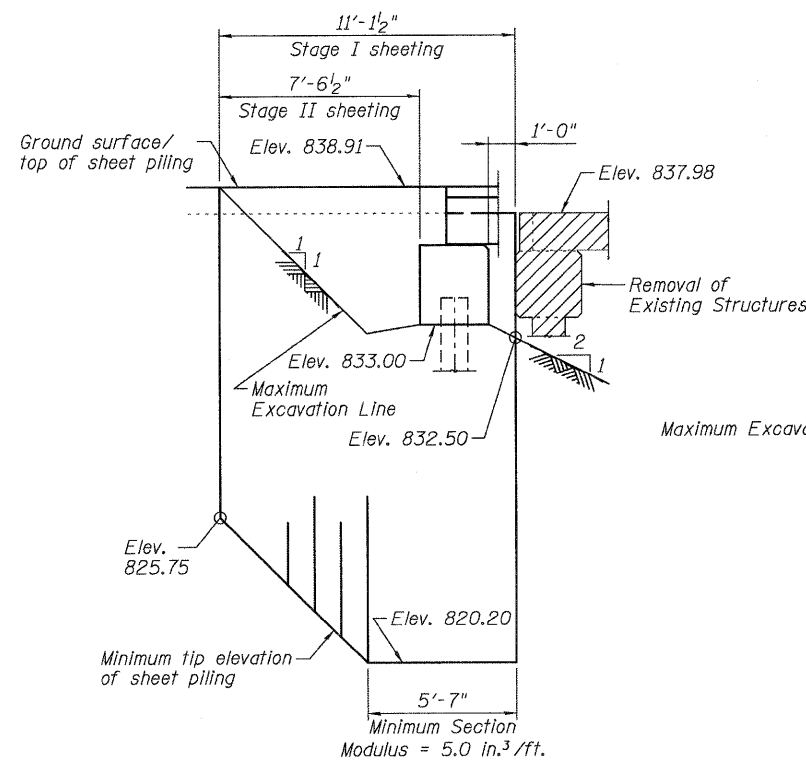


CLAMPING PLATE

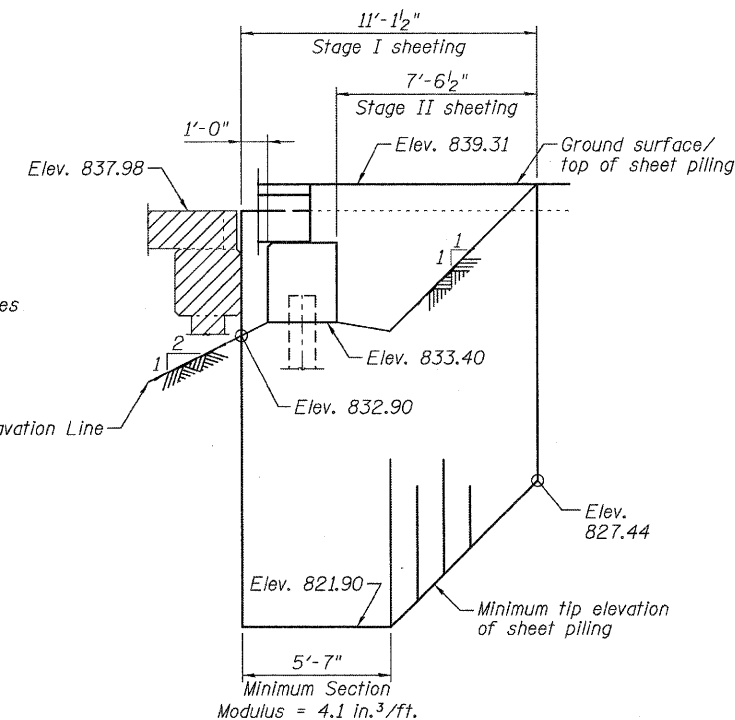
SHEAR KEY CLAMPING DETAILS AT STAGE CONST. JT.

Cost included with Precast Prestressed Concrete Deck Beams.
 See Stage Construction Details for traffic lanes.

*** Cast semicircular recesses in the sides of each beam adjacent to the stage construction line. These recesses should align to form a hole at the appropriate locations for the clamping device bolts.



TEMPORARY SHEET PILING AT WEST ABUT.



TEMPORARY SHEET PILING AT EAST ABUT.

FILE NAME = M:\Projects\2010\1008054 BethanyRd\Road\Structural\Draw\1015107-07191-003-StageConst.dwg

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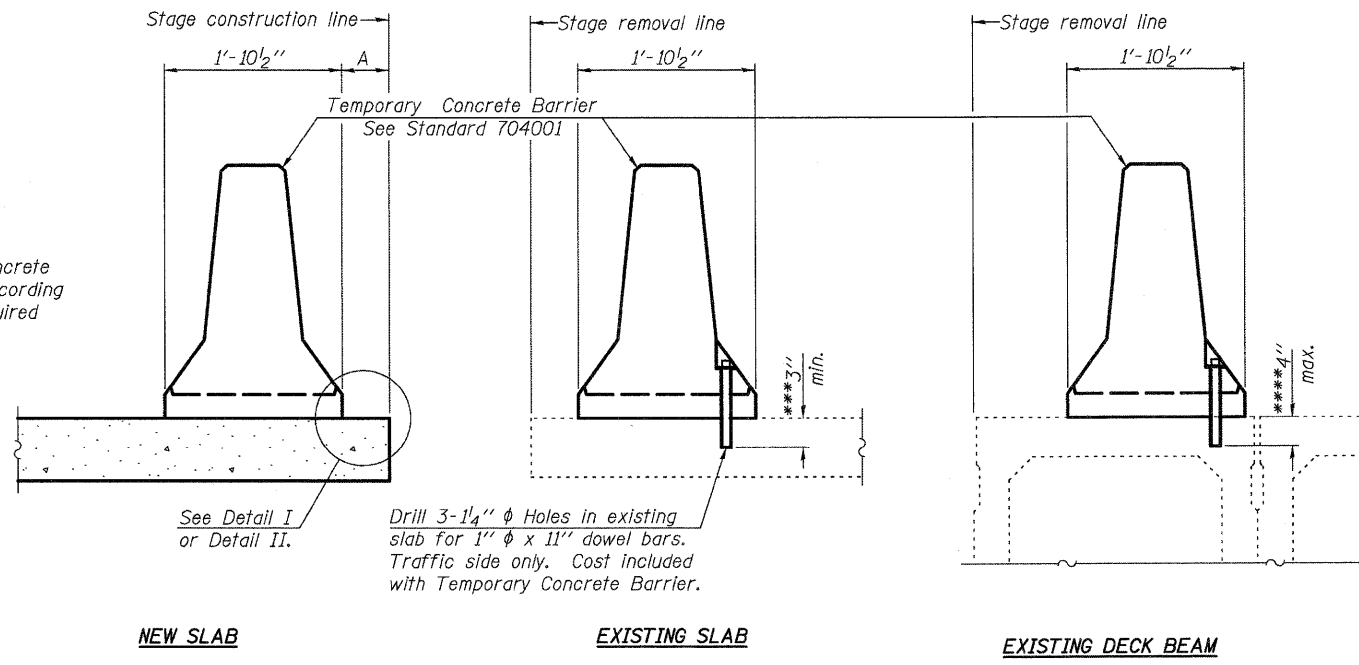
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
 STRUCTURE NO. 019-6107**

SHEET NO. 3 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	49
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 87491	

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



SECTIONS THRU SLAB OR DECK BEAM

NOTES

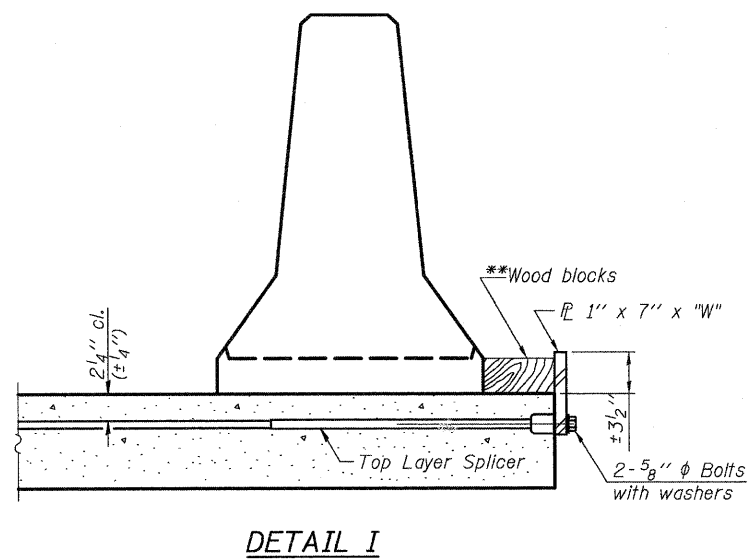
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel \bar{L} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.

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

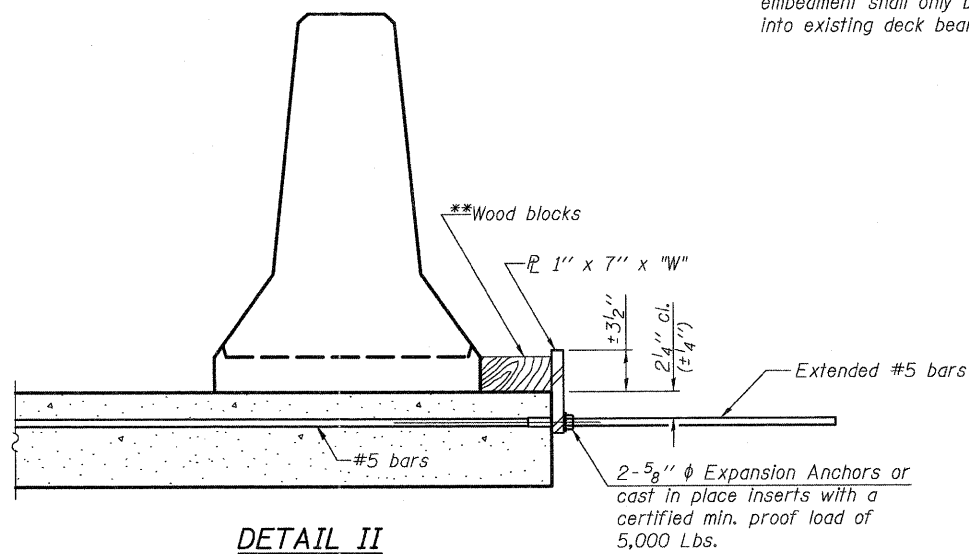
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

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

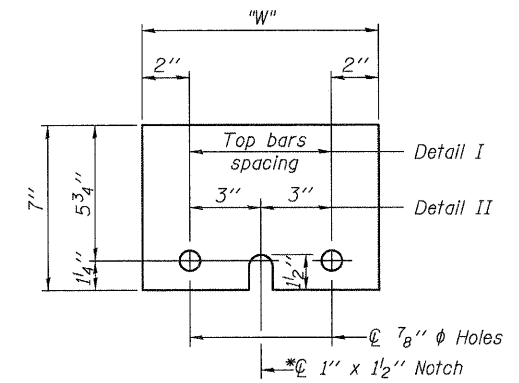
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{L} 1" x 7" x "W"

* Required only with Detail II

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

"W" = Top bars spacing + 4"

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R-27

7-1-10

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PLOT DATE = 7/6/2011

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CHECKED - AEU

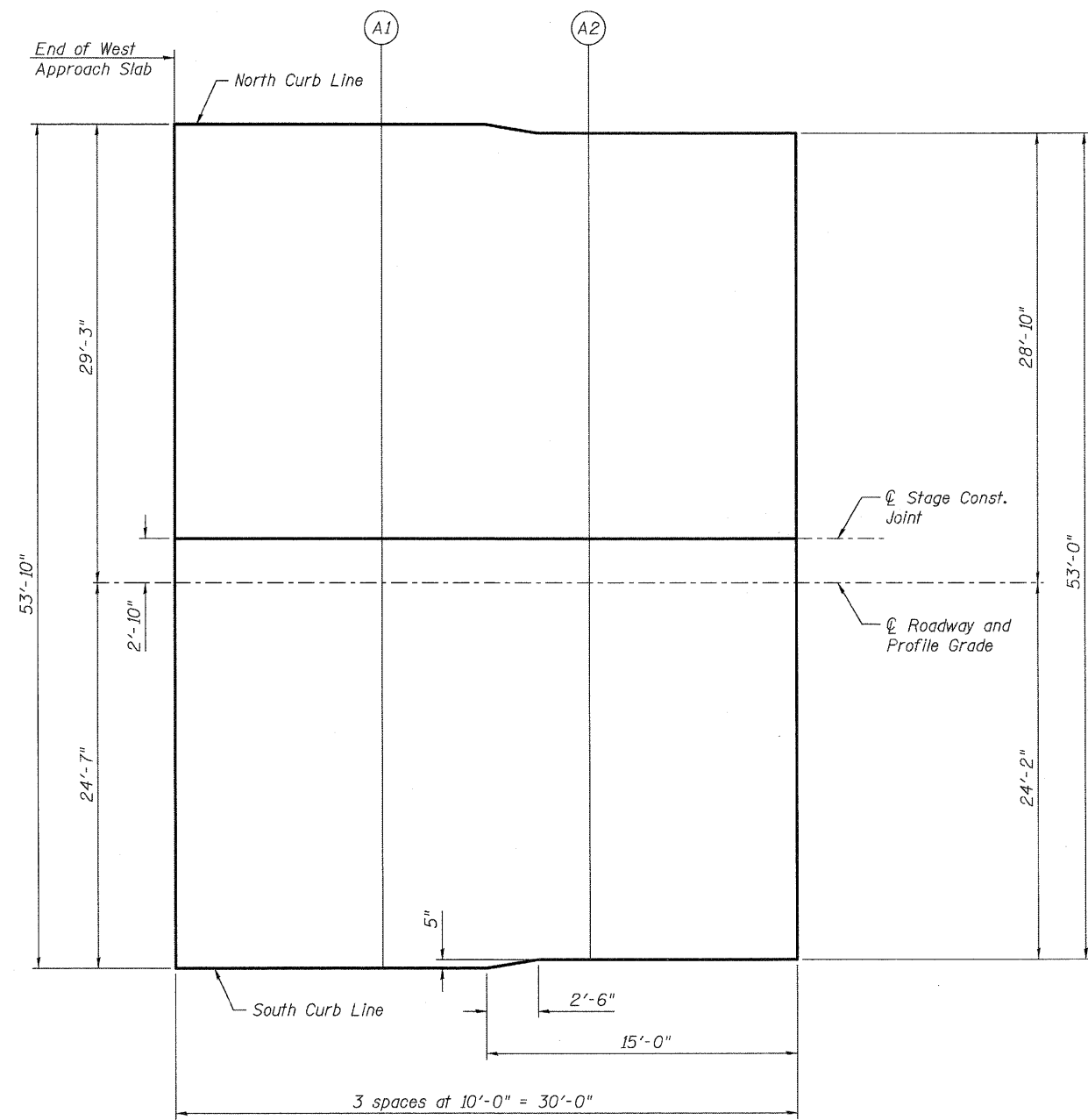
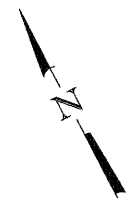
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 019-6107**

SHEET NO. 4 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	50
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 87491	



PLAN

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Slab	16+87.20	-29.25	838.37
A1	16+97.20	-29.25	838.40
A2	17+07.20	-28.83	838.43
Begin W. Appr. Slab	17+17.20	-28.83	838.46

Centerline of Stage Construction Joint

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Slab	16+87.20	-2.83	838.78
A1	16+97.20	-2.83	838.81
A2	17+07.20	-2.83	838.84
Begin W. Appr. Slab	17+17.20	-2.83	838.87

Centerline of Roadway & Profile Grade

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Slab	16+87.20	0.00	838.82
A1	16+97.20	0.00	838.85
A2	17+07.20	0.00	838.88
Begin W. Appr. Slab	17+17.20	0.00	838.91

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End W. Appr. Slab	16+87.20	24.58	838.44
A1	16+97.20	24.58	838.47
A2	17+07.20	24.17	838.50
Begin W. Appr. Slab	17+17.20	24.17	838.53

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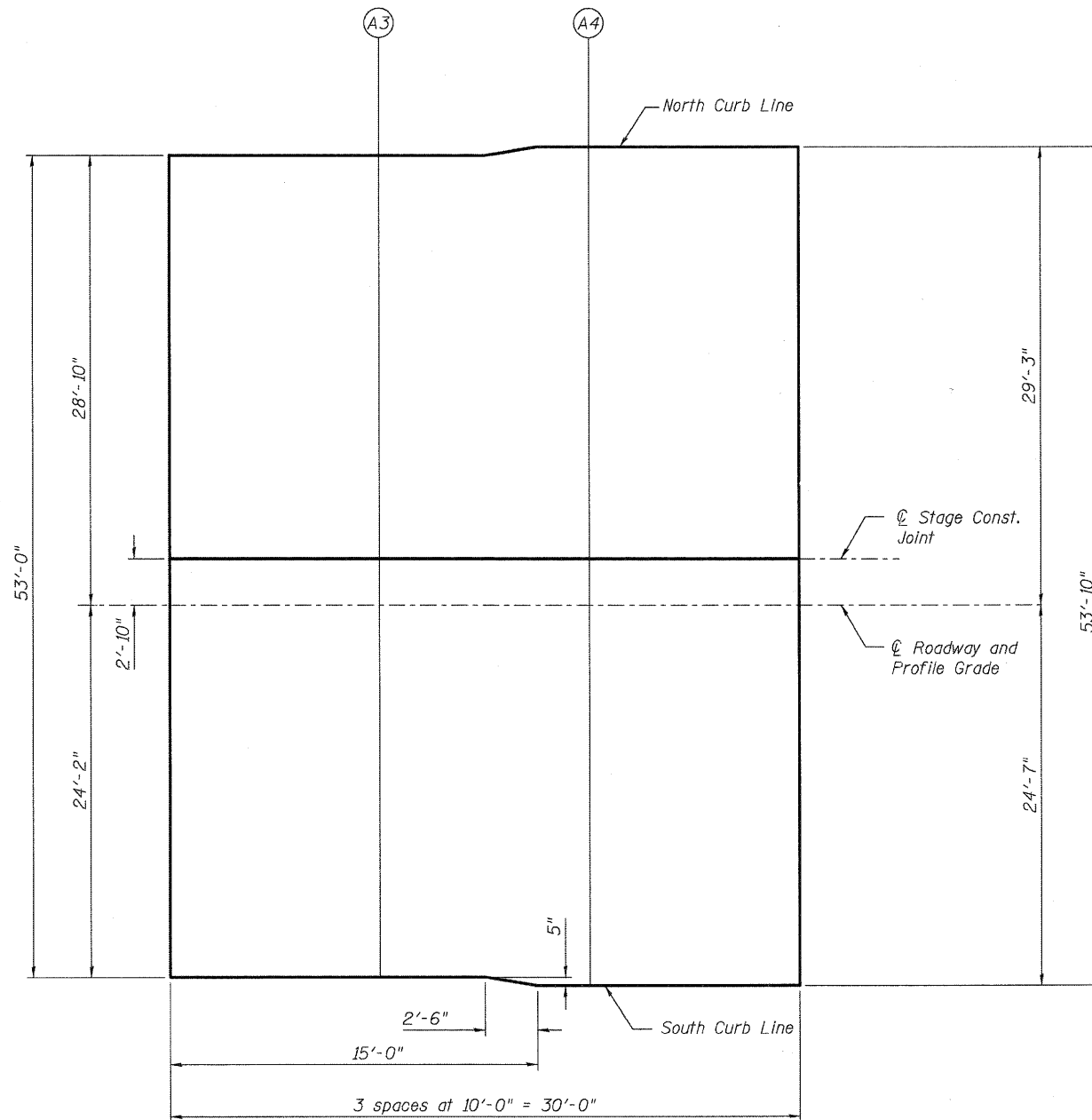
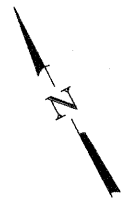
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 019-6107**

F.A.U. RTE. 5355	SECTION 04-00167-00-BR	COUNTY DEKALB	TOTAL SHEETS 88	SHEET NO. 51
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLAN

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Begin E. Appr. Slab	18+49.87	-28.83	838.86
A3	18+59.87	-28.83	838.89
A4	18+69.87	-29.25	838.91
End E. Appr. Slab	18+79.87	-29.25	838.94

☉ STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
Begin E. Appr. Slab	18+49.87	-2.83	839.27
A3	18+59.87	-2.83	839.30
A4	18+69.87	-2.83	839.33
End E. Appr. Slab	18+79.87	-2.83	839.36

☉ ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations
Begin E. Appr. Slab	18+49.87	0.00	839.31
A3	18+59.87	0.00	839.34
A4	18+69.87	0.00	839.37
End E. Appr. Slab	18+79.87	0.00	839.40

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Begin E. Appr. Slab	18+49.87	24.17	838.93
A3	18+59.87	24.17	838.96
A4	18+69.87	24.58	838.99
End E. Appr. Slab	18+79.87	24.58	839.02

FILE NAME = \\P:\projects\2010\080854_Berthong\B-Used\Structural\Drawings\0196107-01-005-Top of Appr Slab E1.dgn

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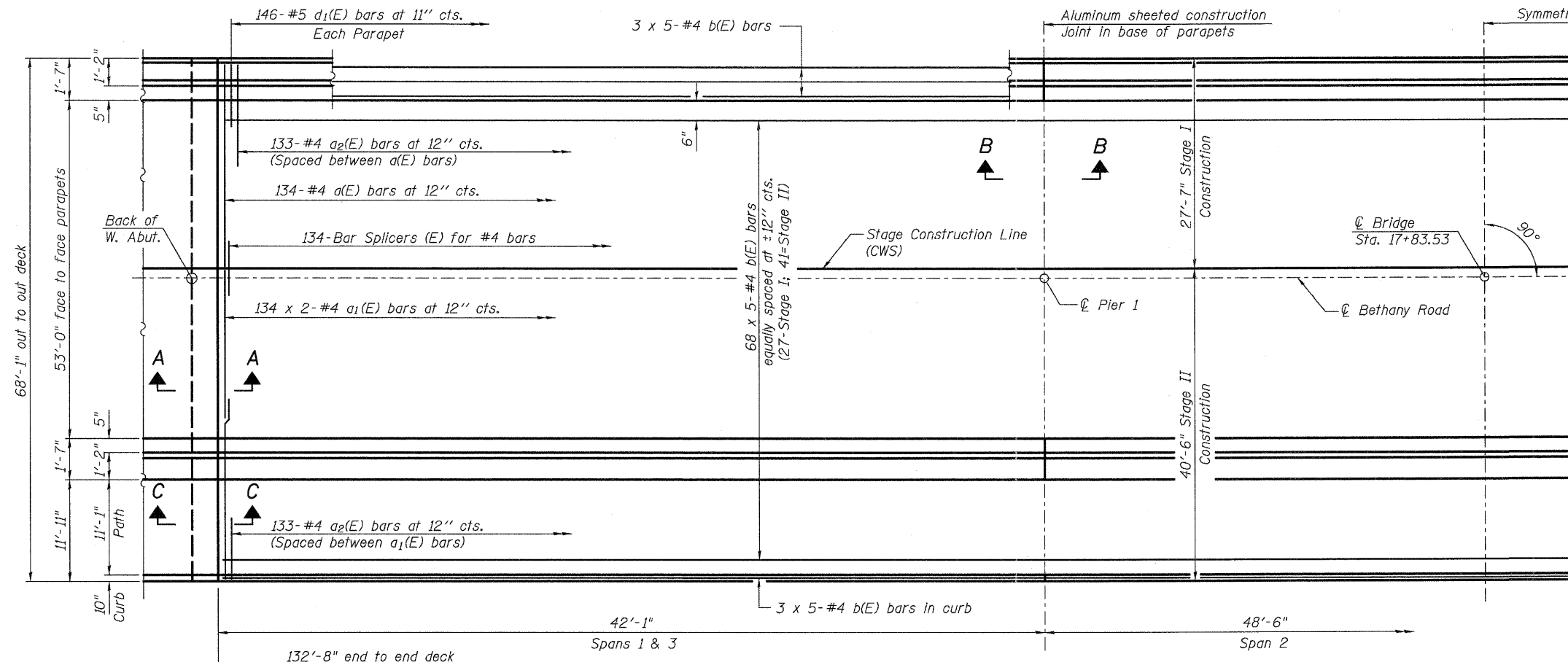
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 019-6107

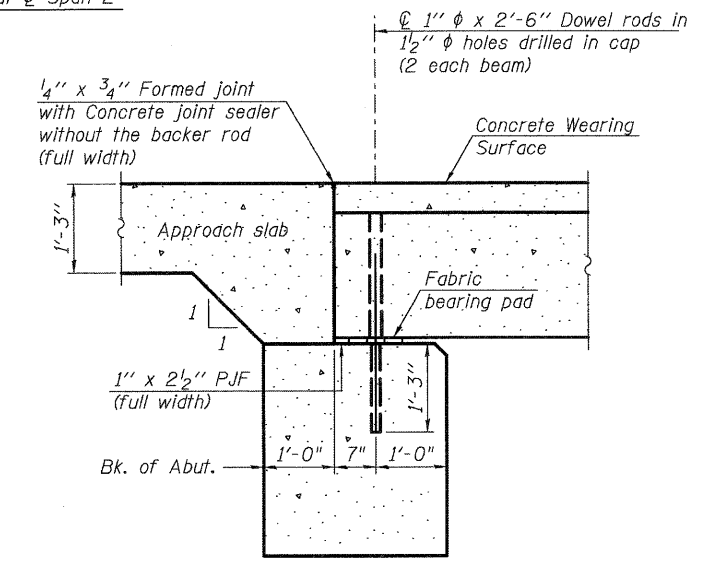
SHEET NO. 6 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 87491



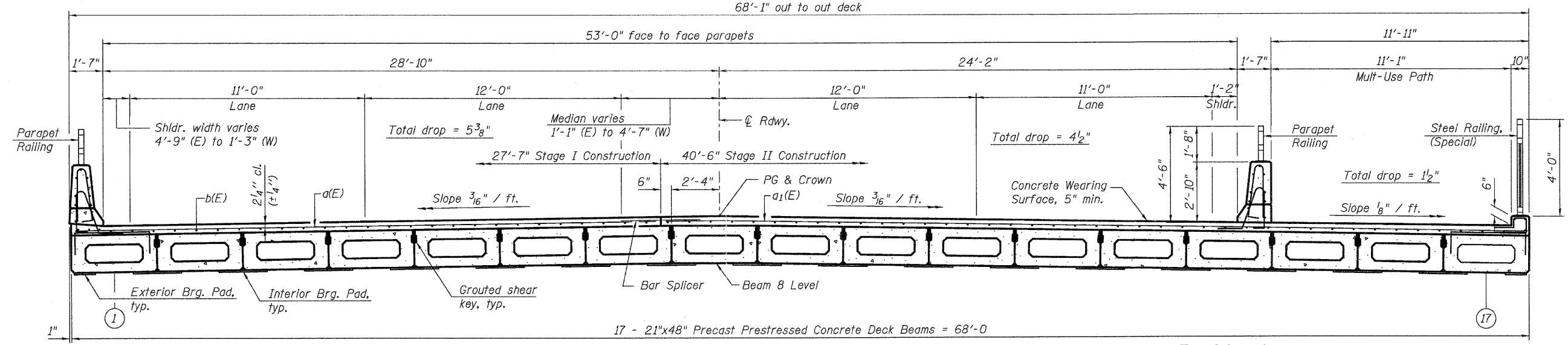
PARTIAL PLAN



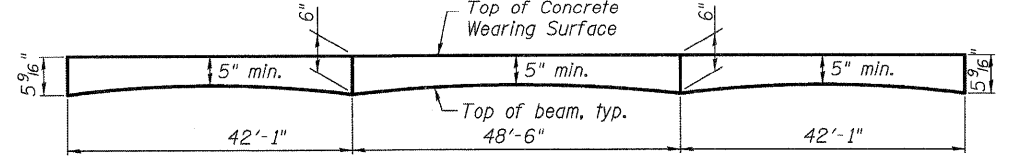
SECTION A-A

Notes:
 All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
 See sheet 15 of 24 for fabric bearing pad details.

MINIMUM BAR LAP
 #4 bar = 2'-7"



CROSS SECTION
 (Looking East)



ANTICIPATED CONCRETE WEARING SURFACE PROFILE
 (For information only)

Notes:
 See sheets 8 and 9 of 24 for Superstructure Details and Bill of Material.
 Bars indicated thus 67 x 5-#4 etc. indicates 67 lines of bars with 5 lengths per line.
 See sheet 8 of 24 for Section B-B & C-C.

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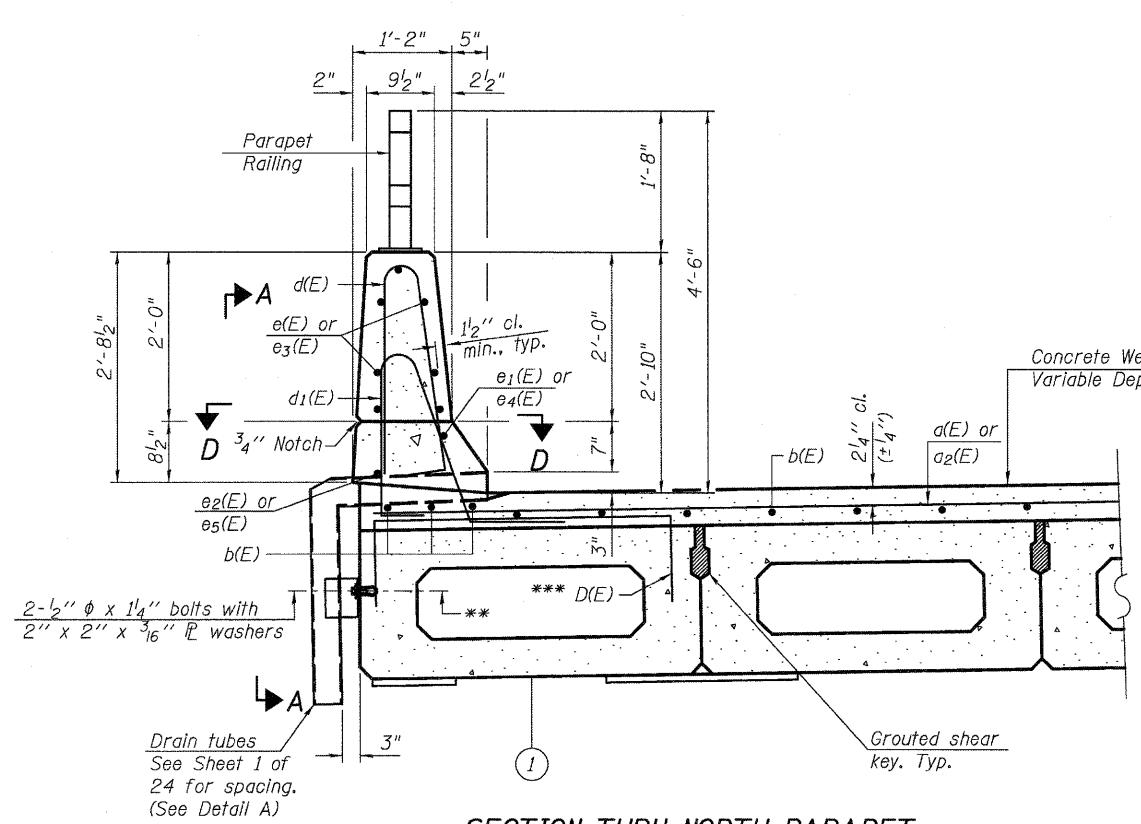
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DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 019-6107
 SHEET NO. 7 OF 24 SHEETS

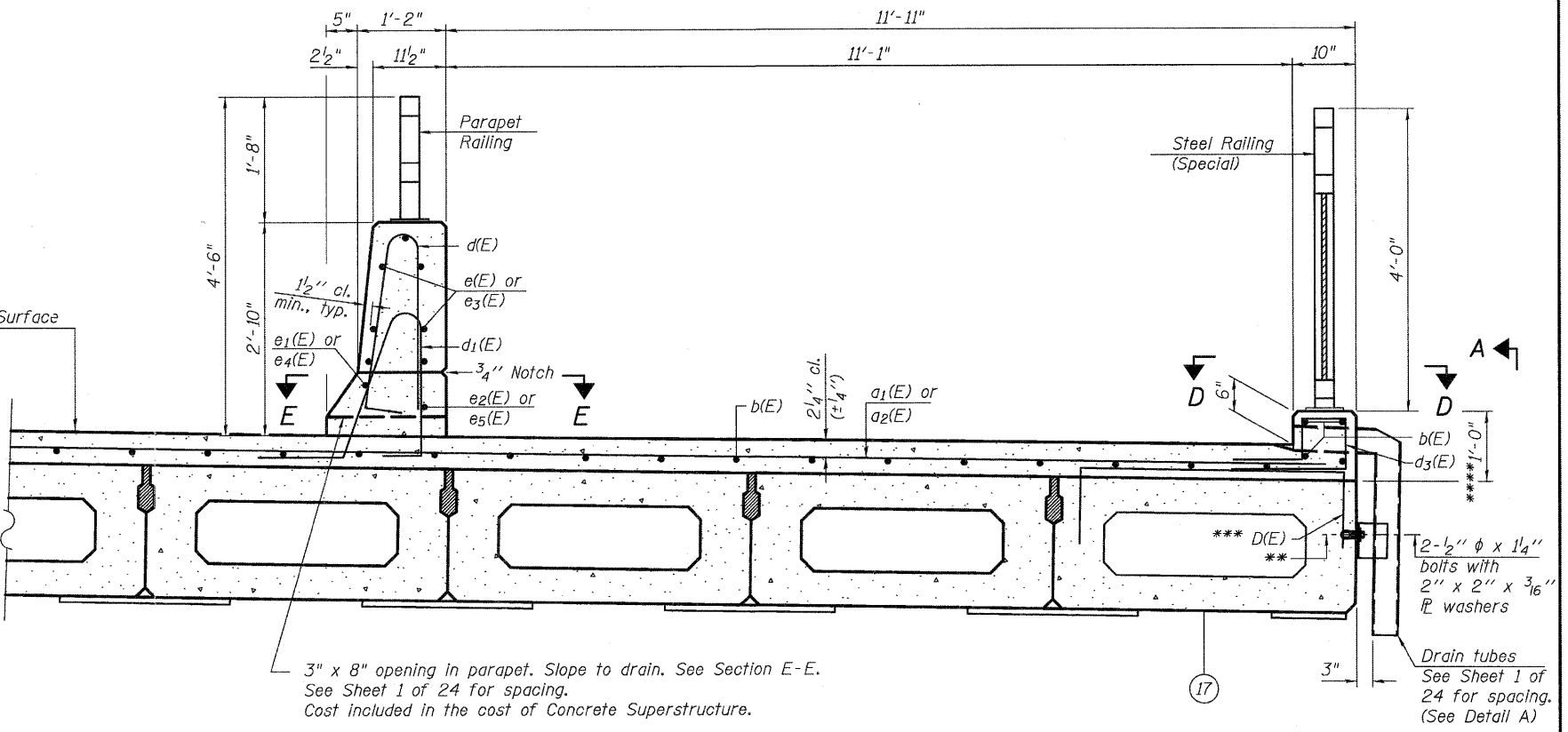
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	53
CONTRACT NO. 87491				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



SECTION THRU NORTH PARAPET

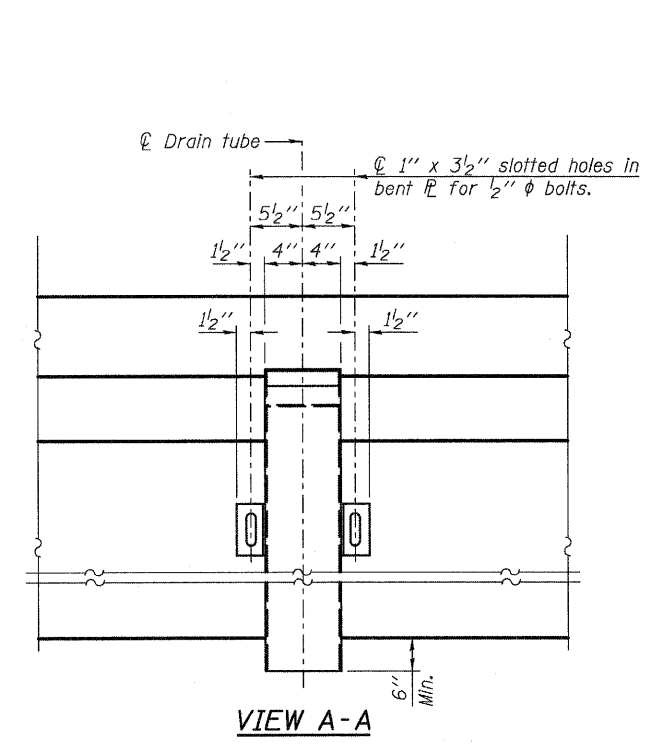
** \odot Loop Ferrule Inserts for $1/2'' \phi$ bolts. Place at \odot of beam depth.

*** Place #4 D(E) bars at 9" cts. in fascia beam. D(E) bar included in cost of beam.

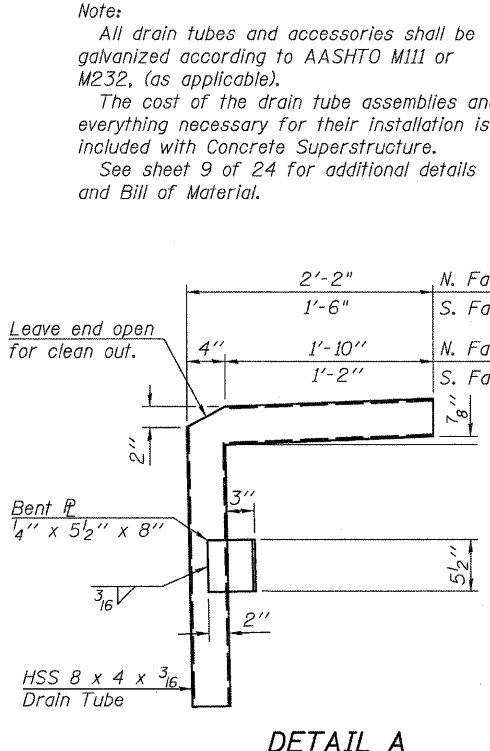


SECTION THRU SOUTH PARAPET & PATH

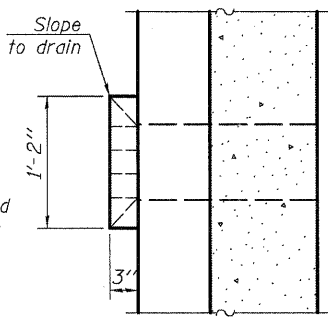
**** Vertical dimension will vary. The dimension provided is the maximum dimension located at the piers. Due to the camber of the beams this dimension will be reduced by approximately 1" at midspan and 1/2" at the abutments. Adjust reinforcement bars in field accordingly.



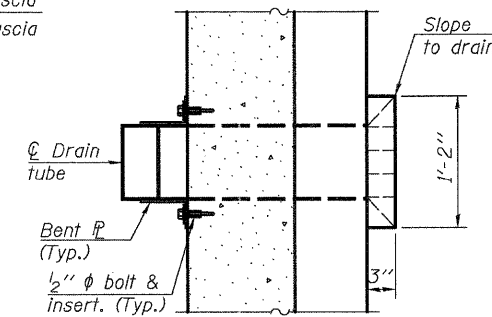
VIEW A-A



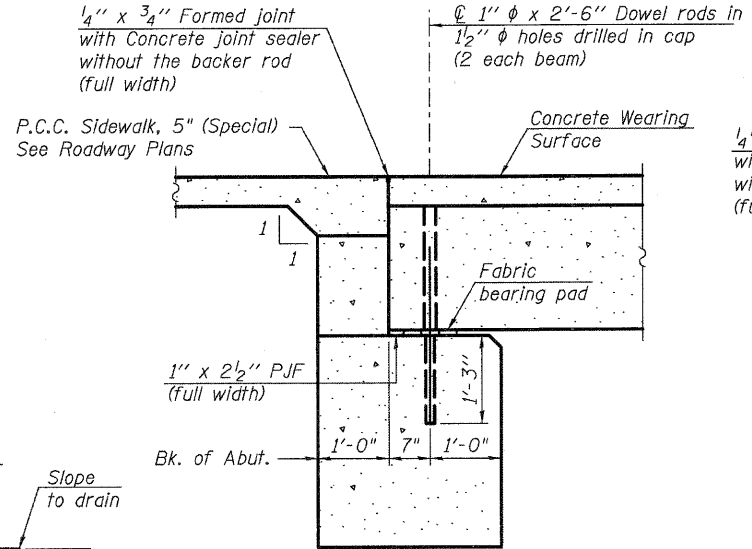
DETAIL A



SECTION E-E

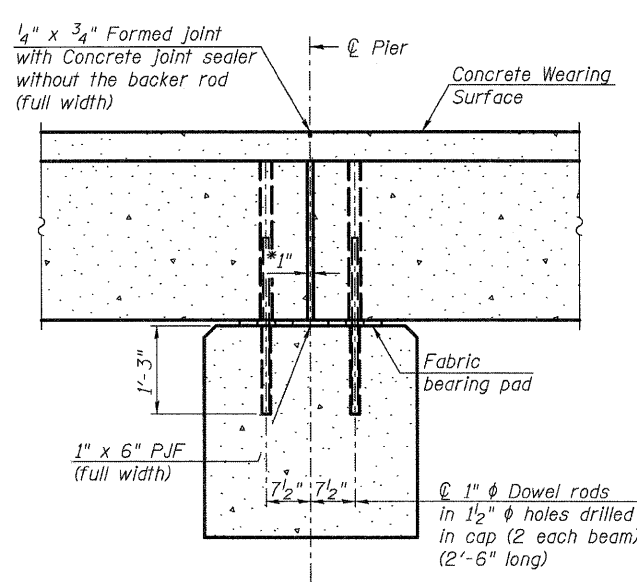


SECTION D-D



SECTION C-C

Notes:
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
See sheet 15 of 24 for fabric bearing pad details.



SECTION B-B

* 1" joint shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam length.

FILE NAME = K:\P\Projects\41202\A\090654_Berthen\Road\Structure\Drawn\01516107-87-491-898-Super-Detail.dgn

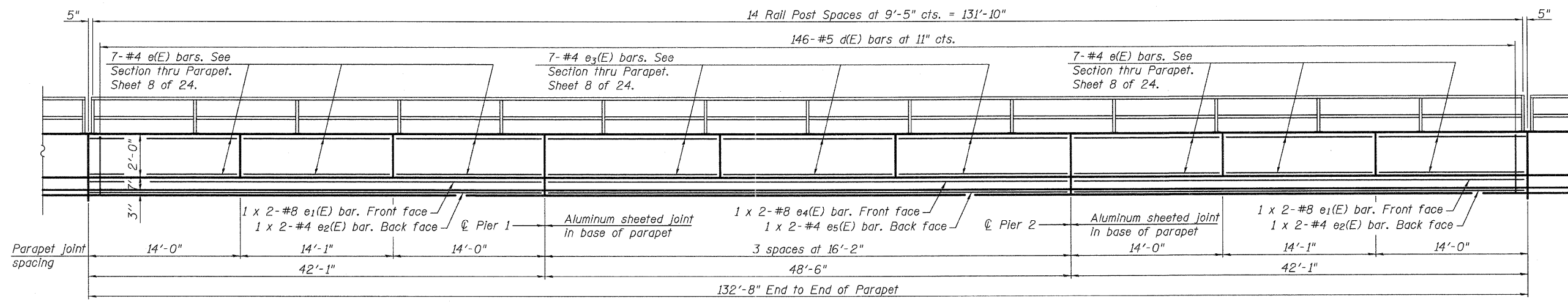
WILLS BURKE KELSEY ASSOCIATES LTD.
119 West Main Street, Suite 201
St. Charles, Illinois 60114
(630) 443-7755

USER NAME = #USER#	DESIGNED - MLH	REVISED -
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PLOT DATE = 7/6/2011	DRAWN - MLH	REVISED -
	CHECKED - AEU	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

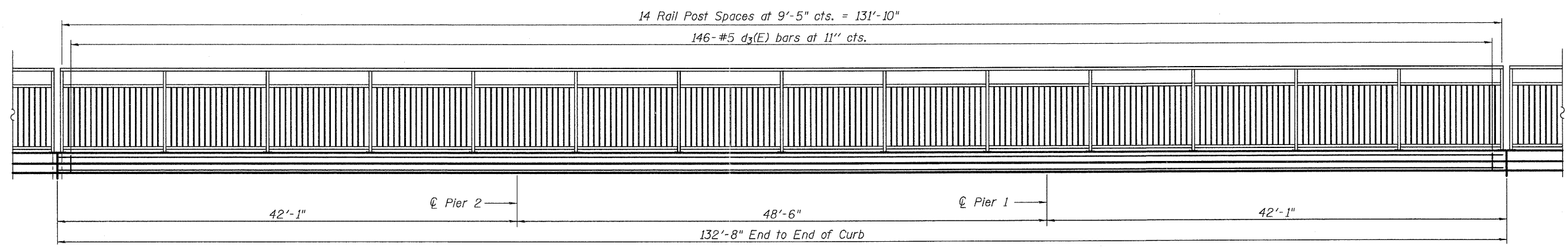
**SUPERSTRUCTURE DETAILS I
STRUCTURE NO. 019-6107**
SHEET NO. 8 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	54
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 87491		



INSIDE ELEVATION OF PARAPET
 North Parapet (Looking North)
 South Parapet similar by rotation of 180°

MINIMUM BAR LAP
 #4 bar = 2'-0"
 #8 bar = 5'-2"

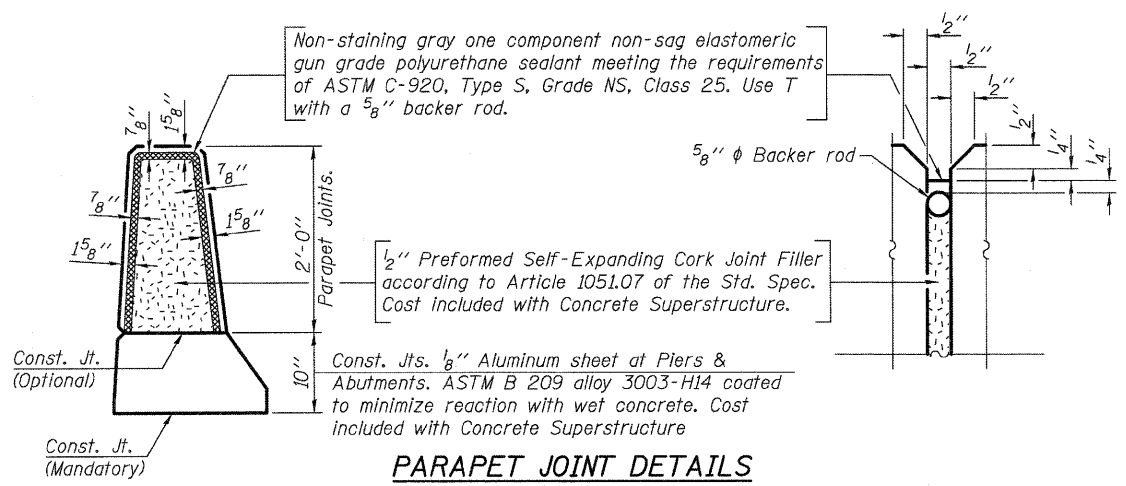


INSIDE ELEVATION OF CURB
 (Looking South)

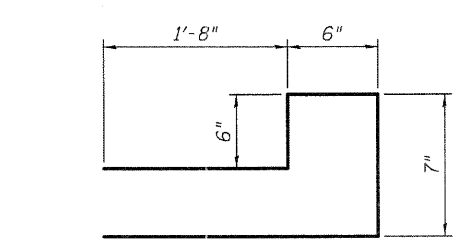
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	134	#4	27'-3"	—
a1(E)	268	#4	21'-5"	—
a2(E)	266	#4	6'-0"	—
b(E)	370	#4	28'-7"	—
d(E)	292	#5	5'-7"	⌋
d1(E)	292	#5	5'-11"	⌋
d3(E)	146	#5	5'-5"	⌋
e(E)	84	#4	13'-8"	—
e1(E)	8	#8	23'-6"	—
e2(E)	8	#4	21'-11"	—
e3(E)	42	#4	15'-10"	—
e4(E)	4	#8	26'-8"	—
e5(E)	4	#4	25'-1"	—
Reinforcement Bars, Epoxy Coated			Pound	20,910
Concrete Superstructure			Cu. Yd.	29.4
Concrete Wearing Surface, 5"			Sq. Yd.	1,002

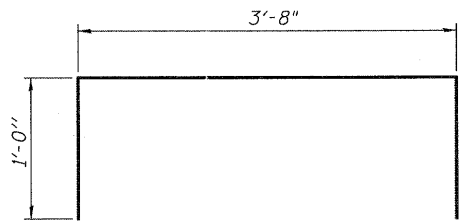
Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.



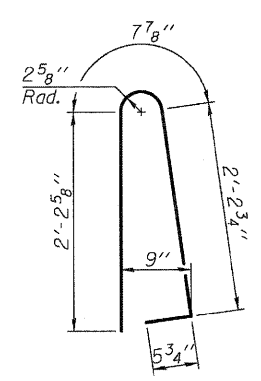
PARAPET JOINT DETAILS



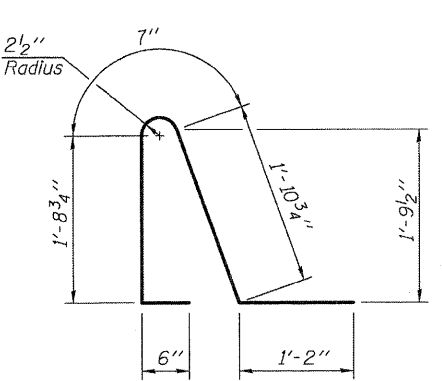
BAR d3(E)



BAR D(E)



BAR d(E)



BAR d1(E)

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

**SUPERSTRUCTURE DETAILS II
 STRUCTURE NO. 019-6107**

SHEET NO. 9 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	55

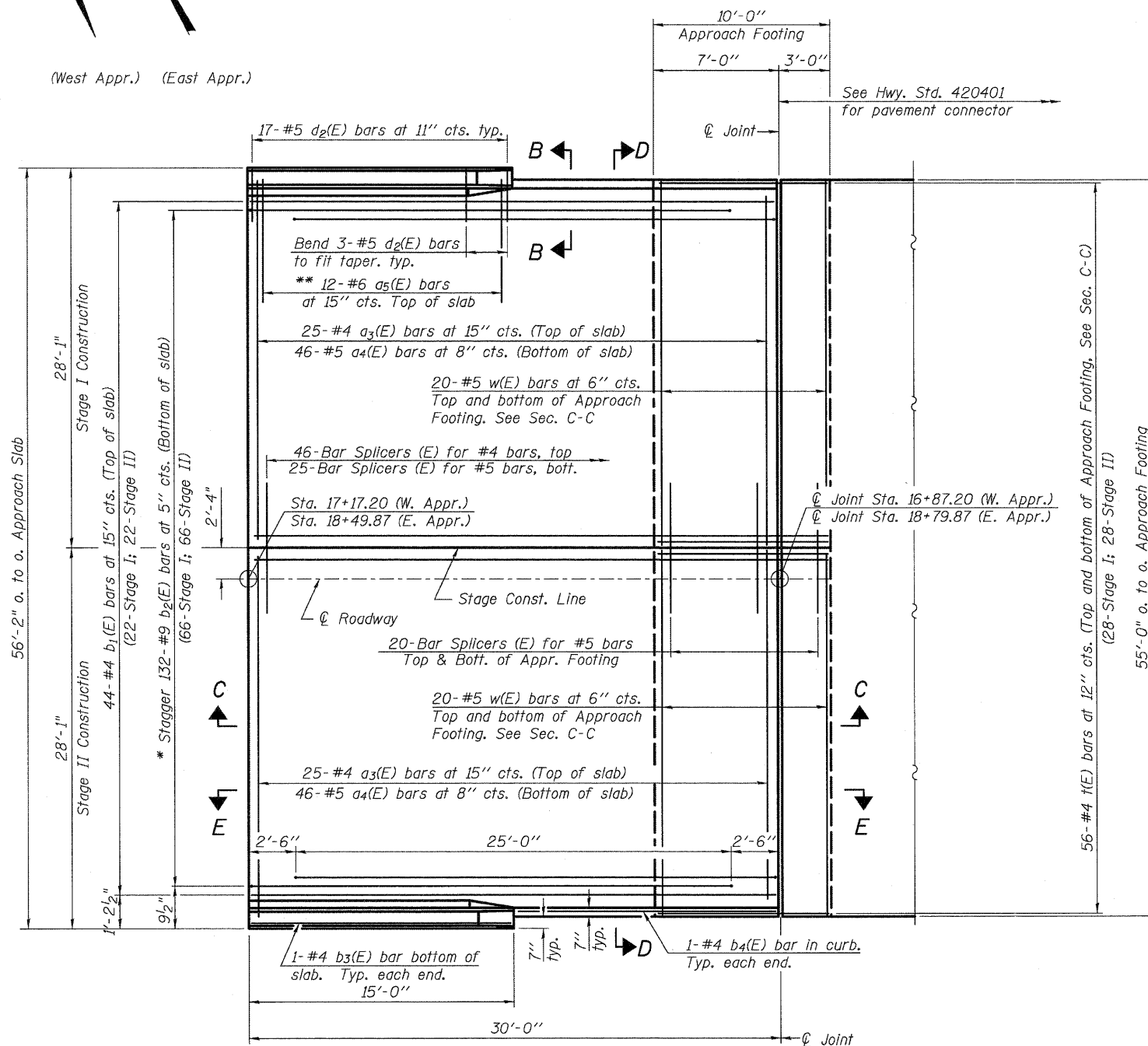
CONTRACT NO. 87491
 ILLINOIS FED. AID PROJECT

FILE NAME = M:\Projects\04-00167-00-BR\04-00167-00-BR-09-Super-Detail.dgn

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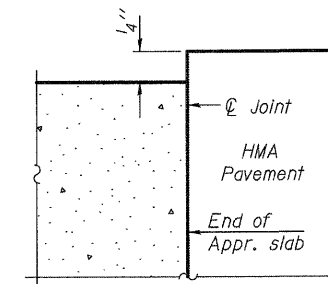
Notes:
See sheet 11 of 24 for Sections C-C & D-D and View E-E.
a₃(E) and a₄(E) bar spacings measured along ϕ Rdwy.



PLAN

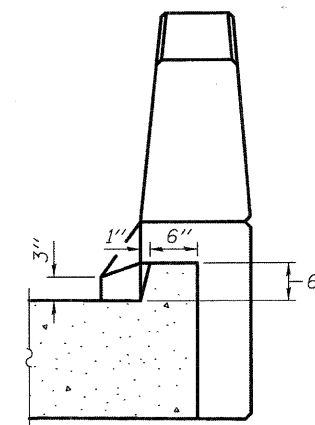
(East Approach shown, West Approach similar)

- * Tilt #9 b₂(E) bars as required to maintain clearance.
- ** Space between a₃(E) bars, typ. ea. parapet.



FLEXIBLE PAVEMENT

DETAIL A



VIEW B-B

MINIMUM BAR LAP

- #4 bar = 2'-7"
- #5 bar = 3'-3"

(Sheet 1 of 2)

FILE NAME = I:\Projects\2010\1200054_Barkong\Barkong\Road\Structure\1\Drawings\16107-87491-01P-BridgeAppr-Slab01.dgn



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PLOT SCALE =	CHECKED - AEU	REVISED -
PLOT DATE = 7/6/2011	DRAWN - MLH	REVISED -
	CHECKED - AEU	REVISED -

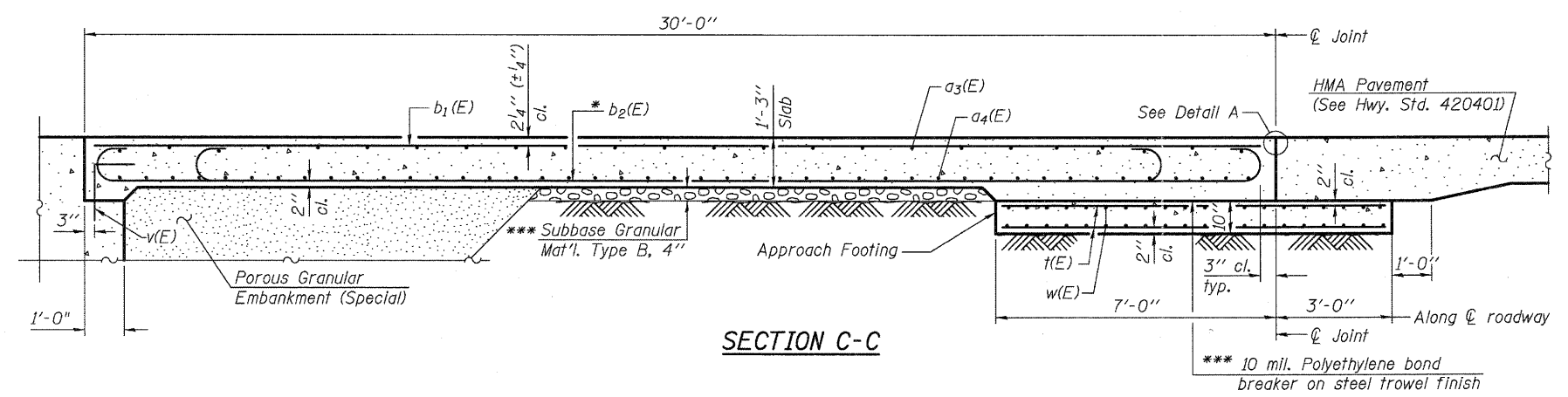
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 019-6107**

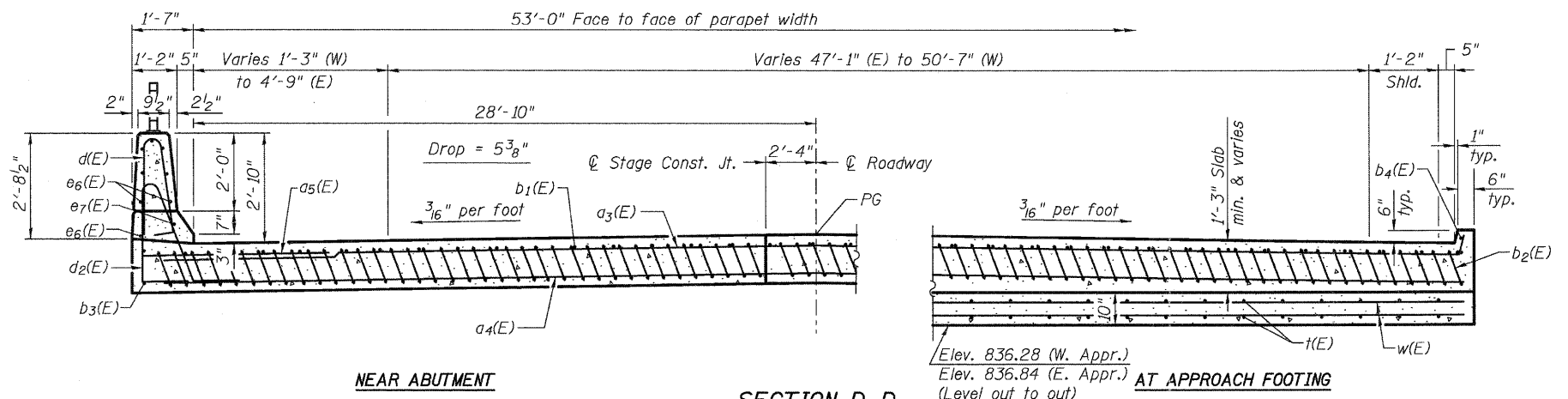
SHEET NO. 10 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	56
CONTRACT NO. 87491				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

Notes:
 See sheet 10 of 24 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 For bar splicer details, see sheet 20 of 24.
 Cost of excavation for approach footing included with Concrete Structures.
 For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 24.
 For additional parapet details, see sheet 9 of 24.



SECTION C-C

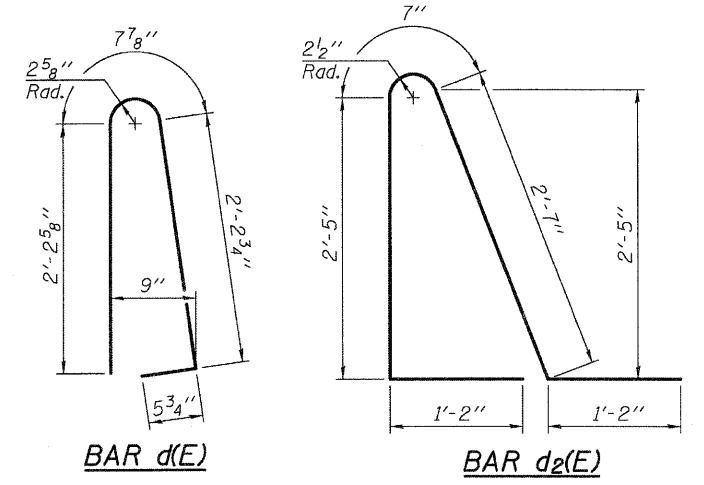


NEAR ABUTMENT

SECTION D-D

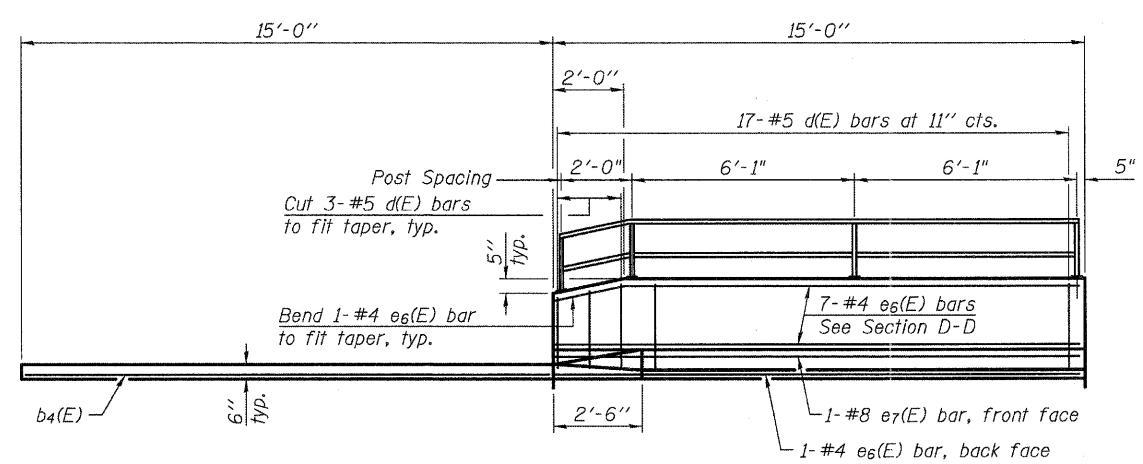
(See Plan for dimensions not shown)

AT APPROACH FOOTING
 (Level out to out)

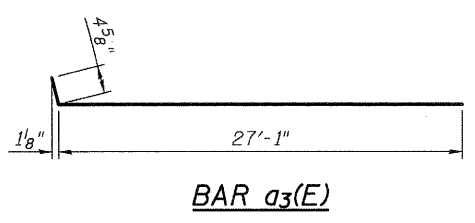


BAR d(E)

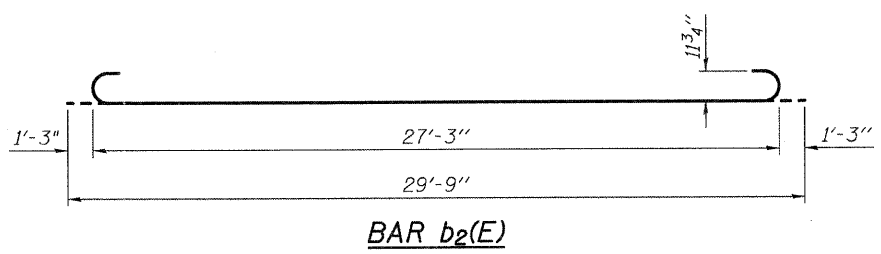
BAR d2(E)



VIEW E-E



BAR a3(E)



BAR b2(E)

* Tilt #9 b2(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.

TWO APPROACHES
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a3(E)	100	#4	27'-5"	—
a4(E)	184	#5	27'-2"	—
a5(E)	48	#6	6'-6"	—
b1(E)	88	#4	29'-8"	—
b2(E)	264	#9	29'-9"	—
b3(E)	4	#4	14'-8"	—
b4(E)	4	#4	14'-8"	—
d(E)	68	#5	5'-7"	—
d2(E)	68	#5	7'-11"	—
e6(E)	32	#4	14'-8"	—
e7(E)	4	#8	14'-8"	—
t(E)	224	#4	9'-8"	—
w(E)	160	#5	27'-3"	—
Concrete Superstructure			Cu. Yd.	168.5
Concrete Structures			Cu. Yd.	33.9
Reinforcement Bars, Epoxy Coated			Pound	43,460

(Sheet 2 of 2)

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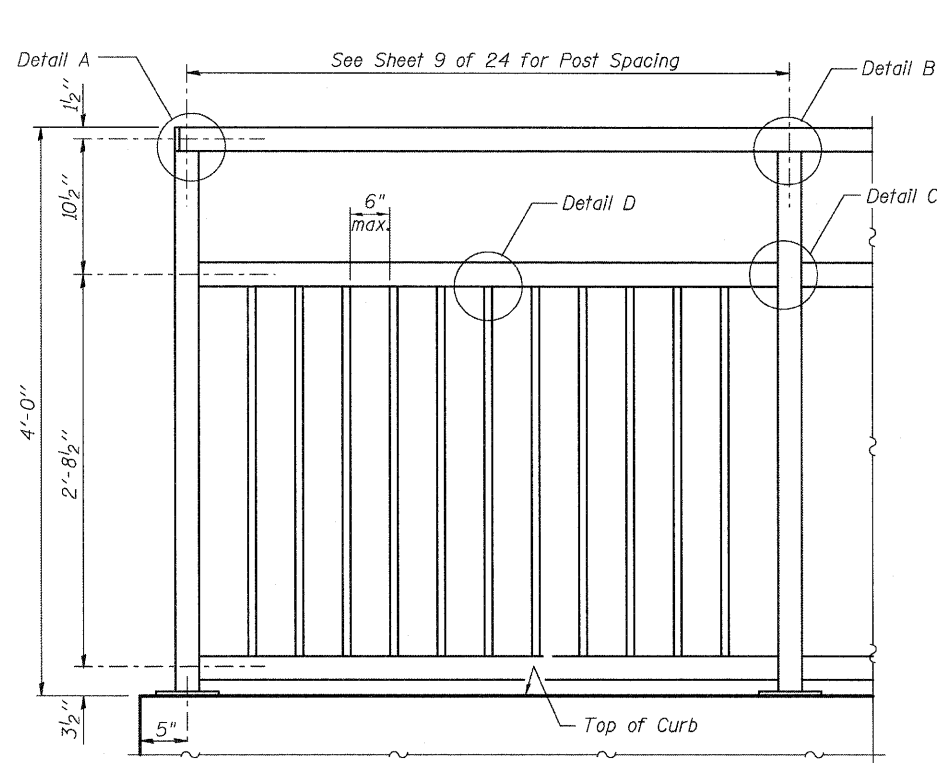
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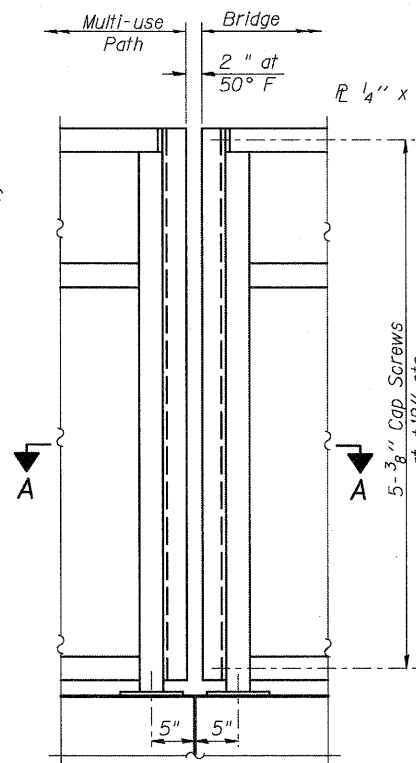
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 019-6107
 SHEET NO. 11 OF 24 SHEETS

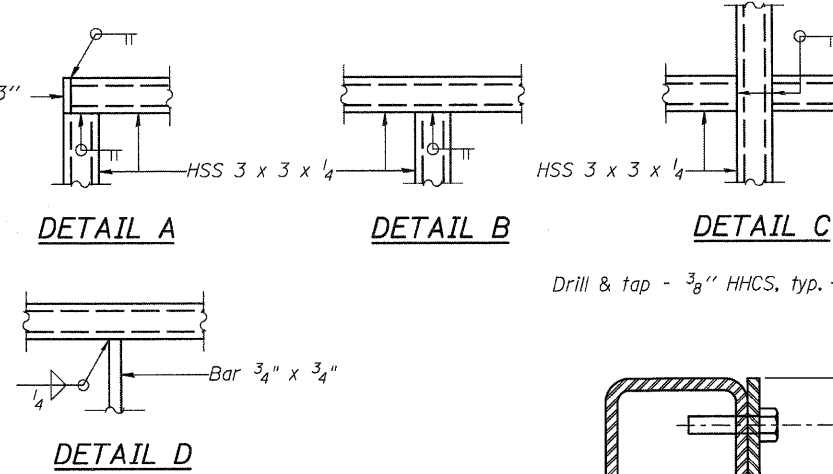
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FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 87491	



STEEL RAILING (SPECIAL)



STEEL RAILING (SPECIAL)



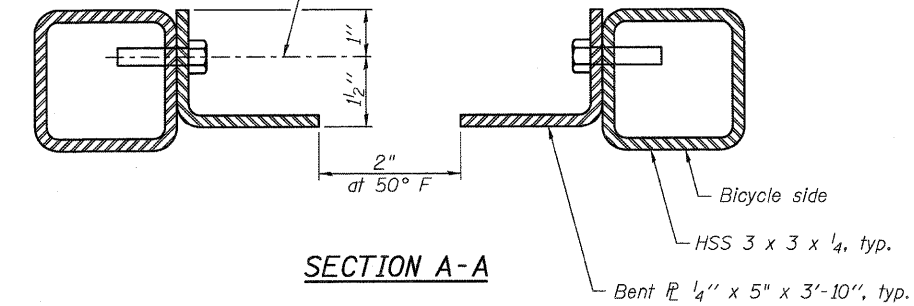
DETAIL A

DETAIL B

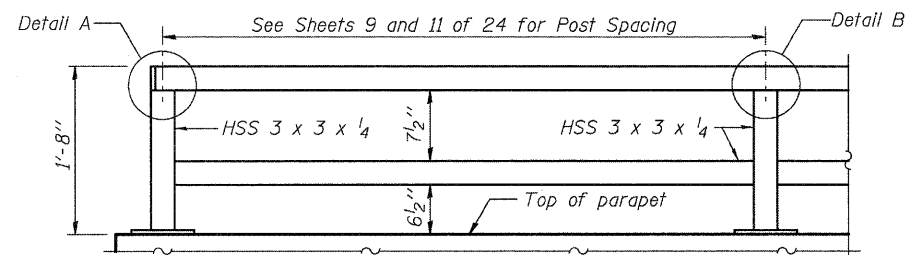
DETAIL C

DETAIL D

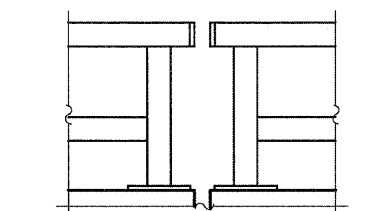
Drill & tap - 3/8" HHCS, typ.



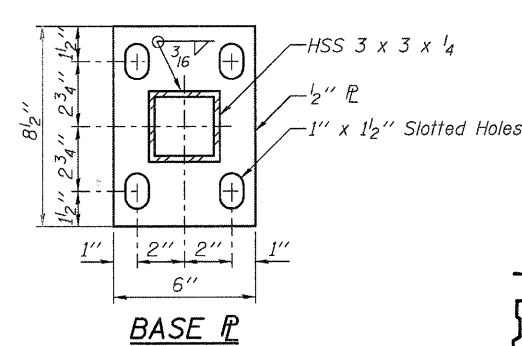
SECTION A-A



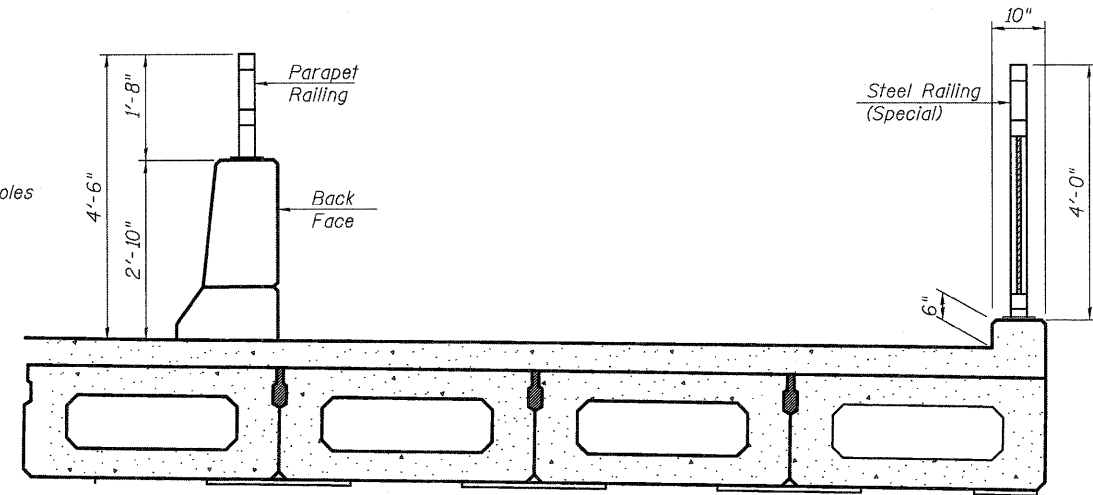
PARAPET RAILING ELEVATION



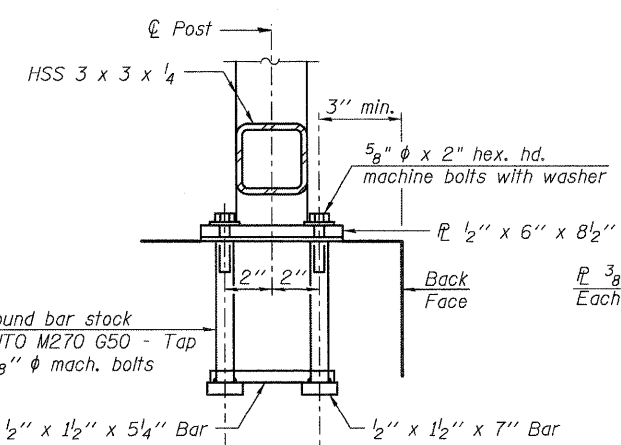
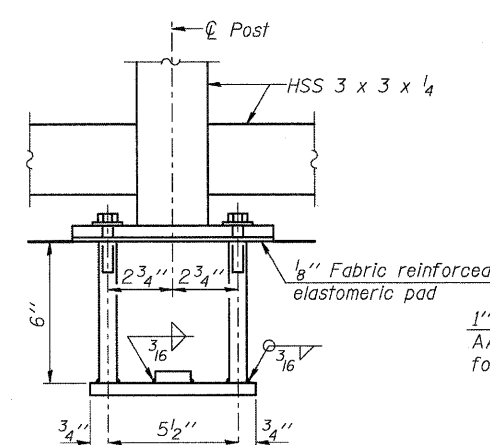
PARAPET RAILING ELEVATION AT ABUTMENTS



BASE PL

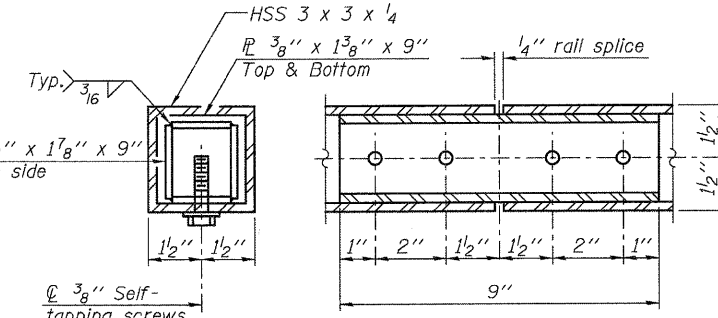


SECTION THRU SIDEWALK



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" φ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



RAIL SPLICE

NOTES:

- Space reinforcement to miss anchor rods.
- All post, railing, splices, anchor devices, and bent plates shall be powder coated black.
- The exact color shall be submitted to the Engineer for approval prior to painting any railing elements.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing (Special)	Foot	133
Parapet Railing	Foot	326

FILE NAME = M:\Projects\2011\090854 - Bechtel\B-roads\Structure\1\Drawn\012-BridgeRail\ingudgn

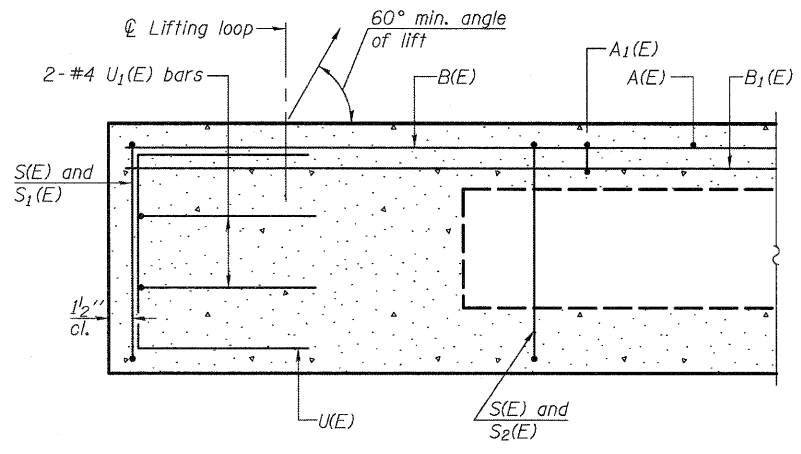
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PLOT DATE = 7/6/2011	DRAWN - MLH	REVISED -
	CHECKED - AEU	REVISED -

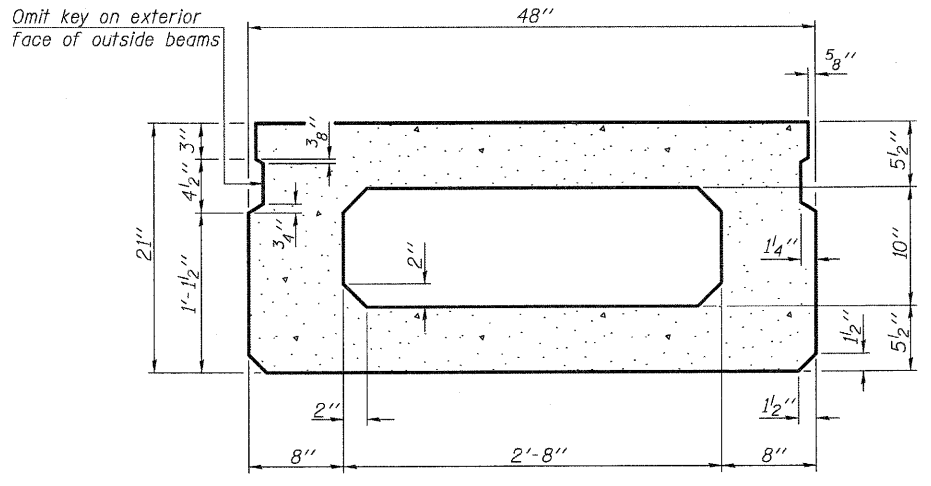
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE RAILING DETAILS
STRUCTURE NO. 019-6107**
SHEET NO. 12 OF 24 SHEETS

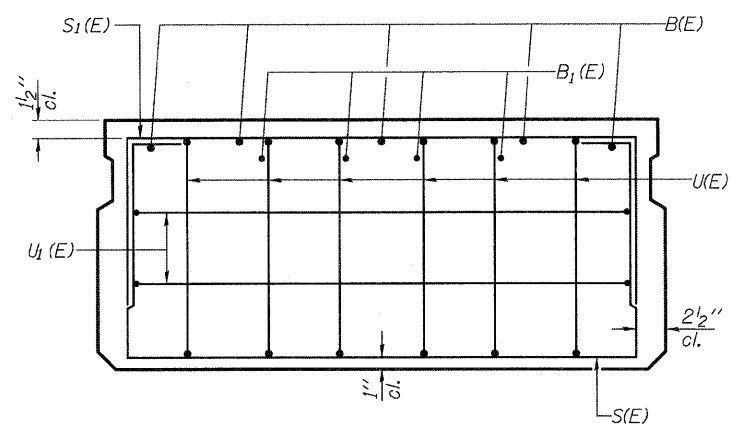
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	58
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 87491	



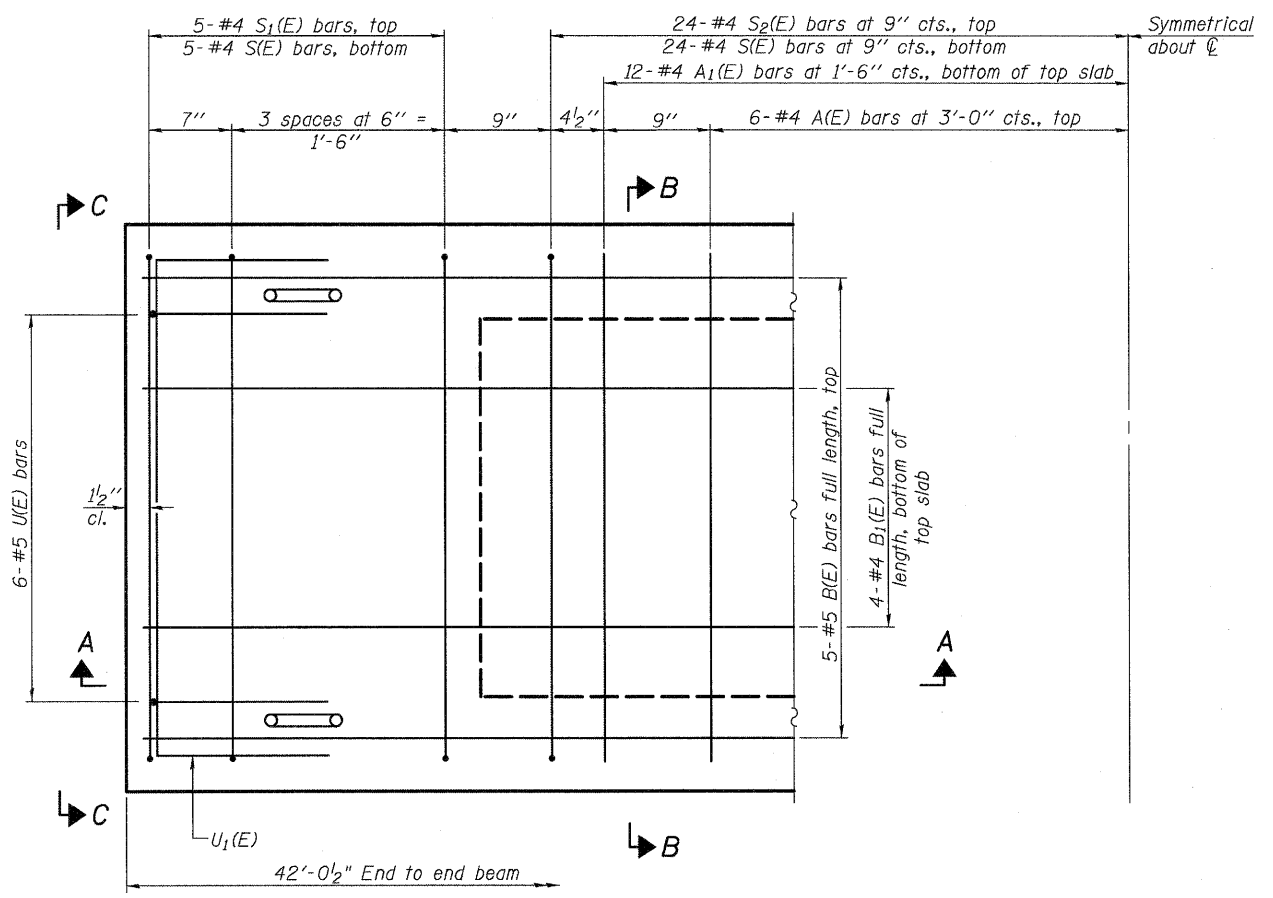
SECTION A-A



SECTION B-B
(Showing dimensions)

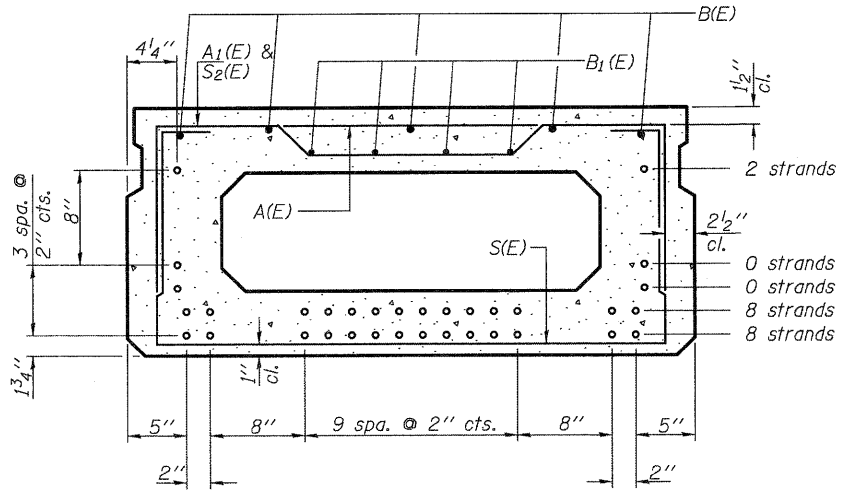


VIEW C-C



PLAN VIEW

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION B-B

(Showing reinforcement and permissible strand locations)
18 - 1/2" ϕ Strands
(8 Strands 1 3/4" up, 8 Strands 3 3/4" up, 2 Strands 15 3/4" up)
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MINIMUM BAR LAP

- #4 bar = 2'-0"
- #5 bar = 2'-6"

BAR LIST
ONE BEAM ONLY
(For Information Only)

Bar	No.	Size	Length	Shape
A(E)	12	#4	3'-7"	—
A1(E)	24	#4	3'-10"	—
B(E)	5	#5	41'-9"	—
B1(E)	4	#4	41'-9"	—
S(E)	58	#4	7'-5"	□
S1(E)	10	#4	5'-11"	□
S2(E)	48	#4	6'-2"	□
U1(E)	12	#5	4'-0"	□
U1(E)	4	#4	6'-0"	□

Note: See sheet 15 of 24 for additional details and Bill of Material.

FILE NAME = N:\Projects\2010\100954_Berthong\1\Structural\Drawings\0195107-0191-013-21x48PPCDeckBeamsSpan1&3.dgn

PD-2148-0

7-1-10

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PLOT SCALE =	CHECKED - AEU	REVISED -
PLOT DATE = 7/6/2011	DRAWN - MLH	REVISED -
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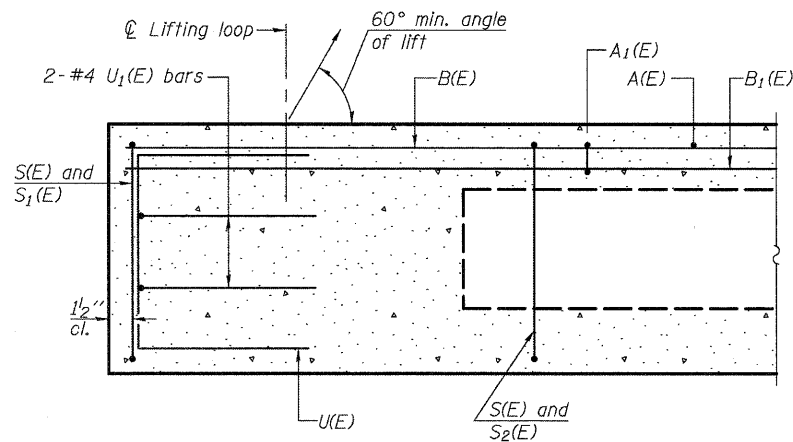
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

(Spans 1 and 3)
21" x 48" PPC DECK BEAM
STRUCTURE NO. 019-6107

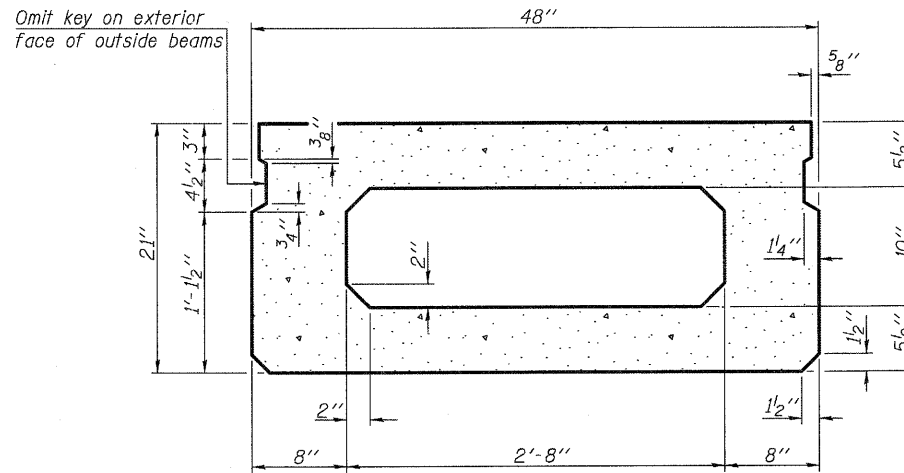
SHEET NO. 13 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

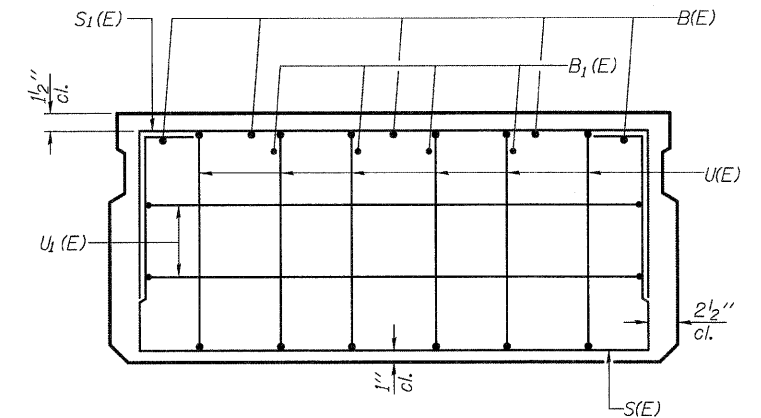
CONTRACT NO. 87491



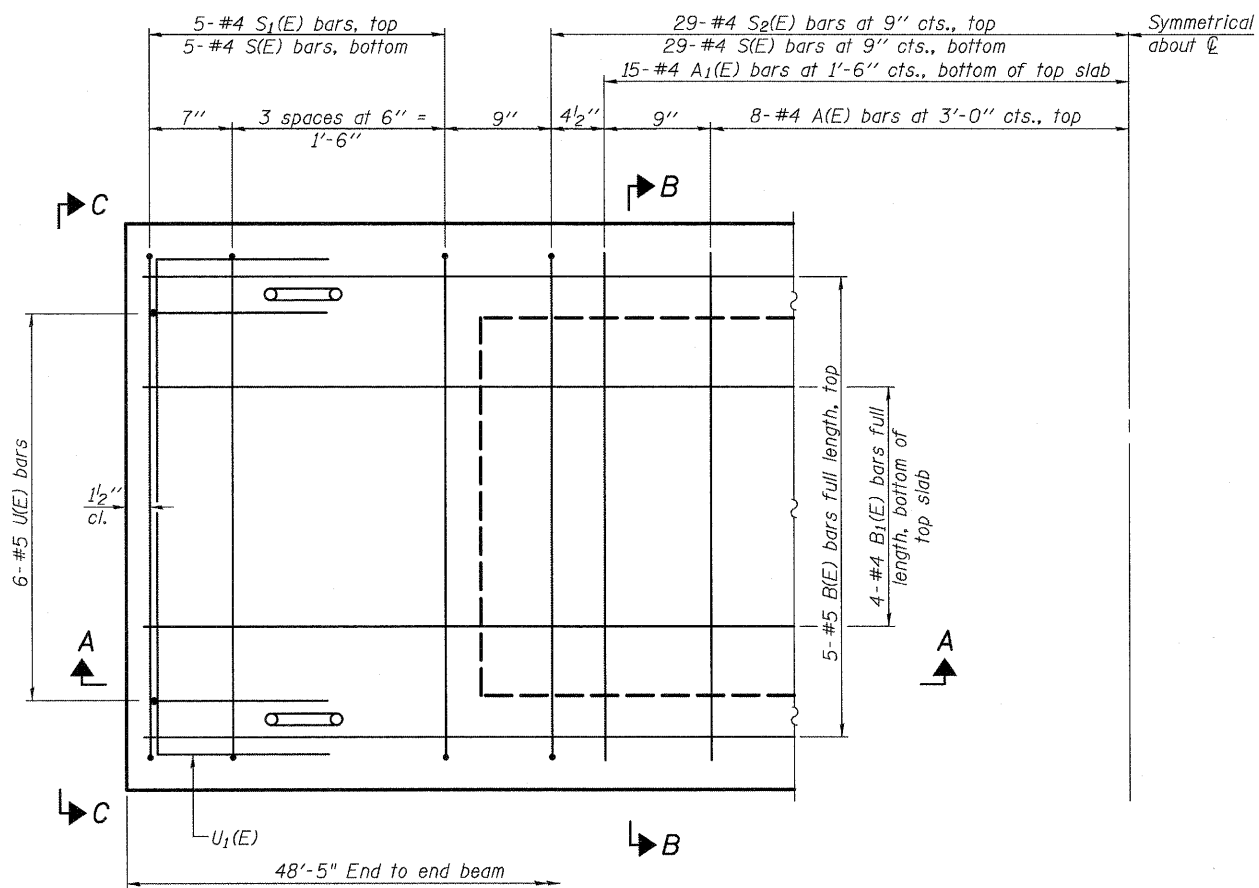
SECTION A-A



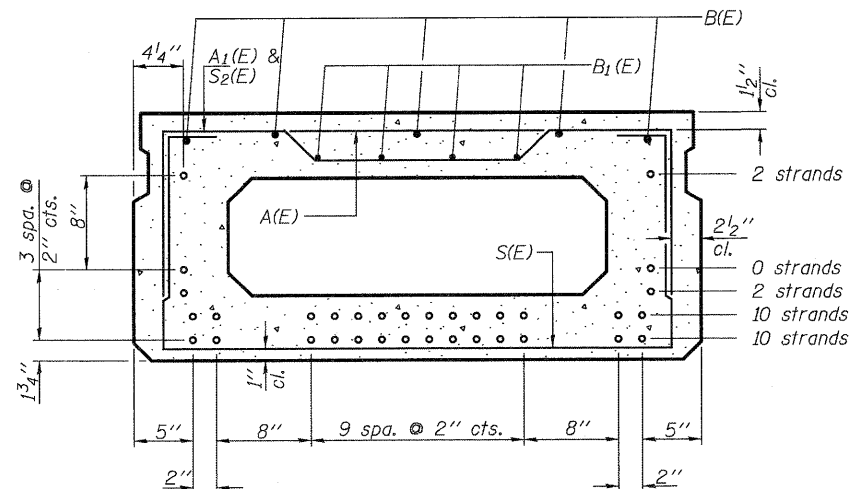
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B

(Showing reinforcement and permissible strand locations)
24-1/2" ϕ Strands

(10 Strands 1 3/4" up, 10 Strands 3 3/4" up, 2 Strands 5 3/4" up, 2 Strands 15 3/4" up)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MINIMUM BAR LAP

#4 bar = 2'-0"
#5 bar = 2'-6"

BAR LIST
ONE BEAM ONLY
(For Information Only)

Bar	No.	Size	Length	Shape
A(E)	16	#4	3'-7"	—
A1(E)	30	#4	3'-10"	—
B(E)	5	#5	48'-2"	—
B1(E)	4	#4	48'-2"	—
S(E)	68	#4	7'-5"	□
S1(E)	10	#4	5'-11"	□
S2(E)	58	#4	6'-2"	□
U(E)	12	#5	4'-0"	□
U1(E)	4	#4	6'-0"	□

Note: See sheet 15 of 24 for additional details and Bill of Material.

PD-2148-0

7-1-10

(Span 2)

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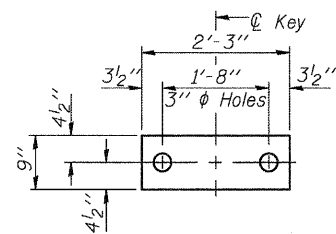
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

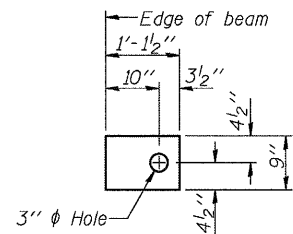
21" x 48" PPC DECK BEAM
STRUCTURE NO. 019-6107

SHEET NO. 14 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	60
CONTRACT NO. 87491				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



FABRIC BEARING PAD
(Interior)

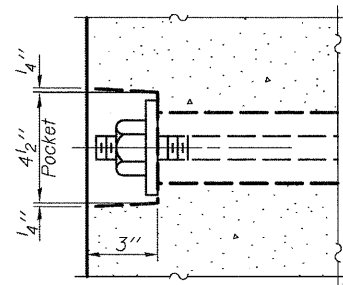


FABRIC BEARING PAD
(Exterior)

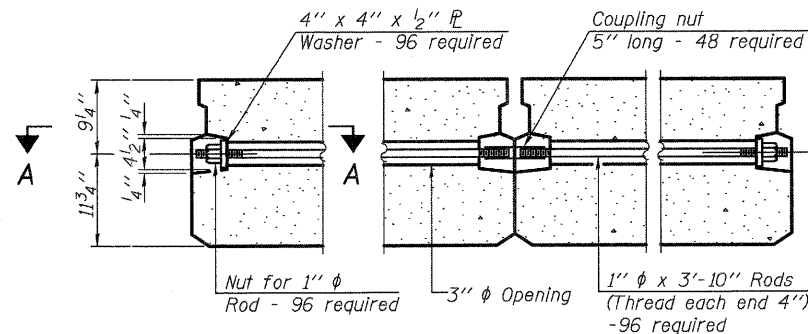
FIXED

Notes:

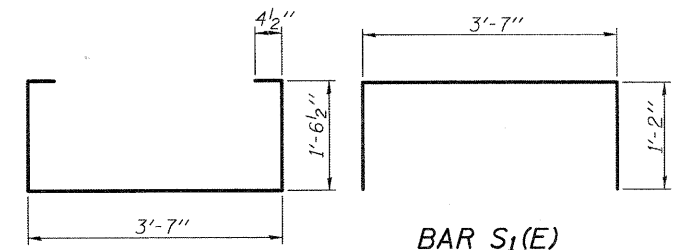
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



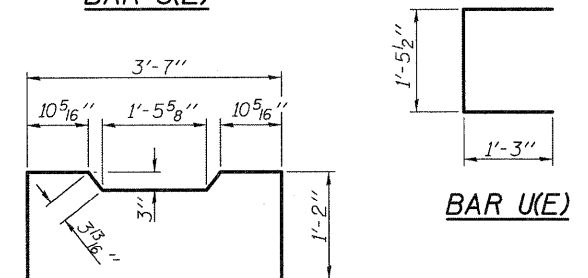
SECTION A-A



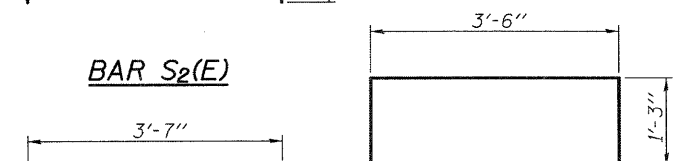
TYPICAL TRANSVERSE TIE ASSEMBLY



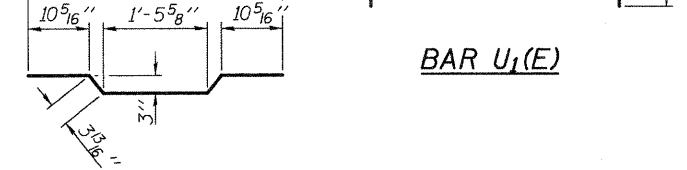
BAR S(E)



BAR U(E)

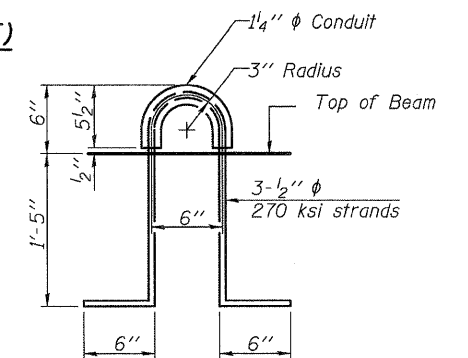


BAR S2(E)

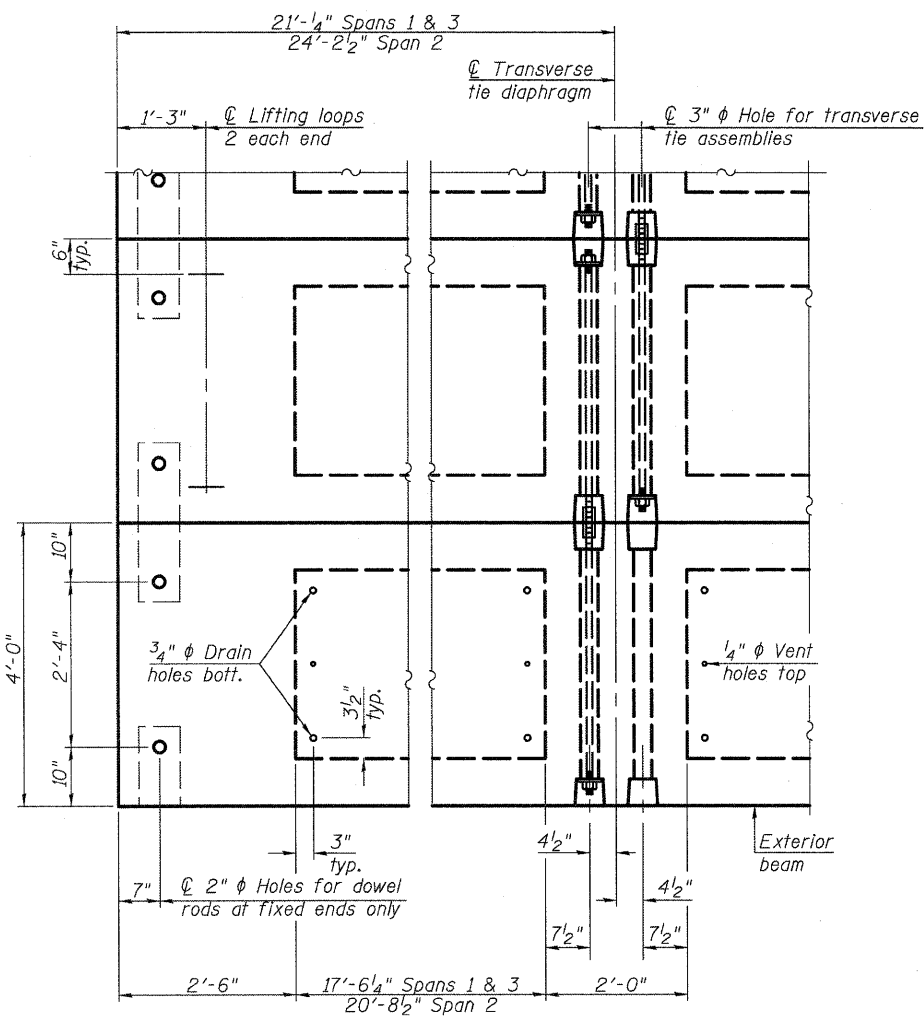


BAR U1(E)

BAR A1(E)



LIFTING LOOP DETAIL



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place. Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions). Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	9,010
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PD-2148-OD 7-1-10

FILE NAME = W:\Projects\2010\1020054_BeTherap\Used\Structural\Drawings\1016107-07491_015-21-48PPCDeckBeamD1.dwg

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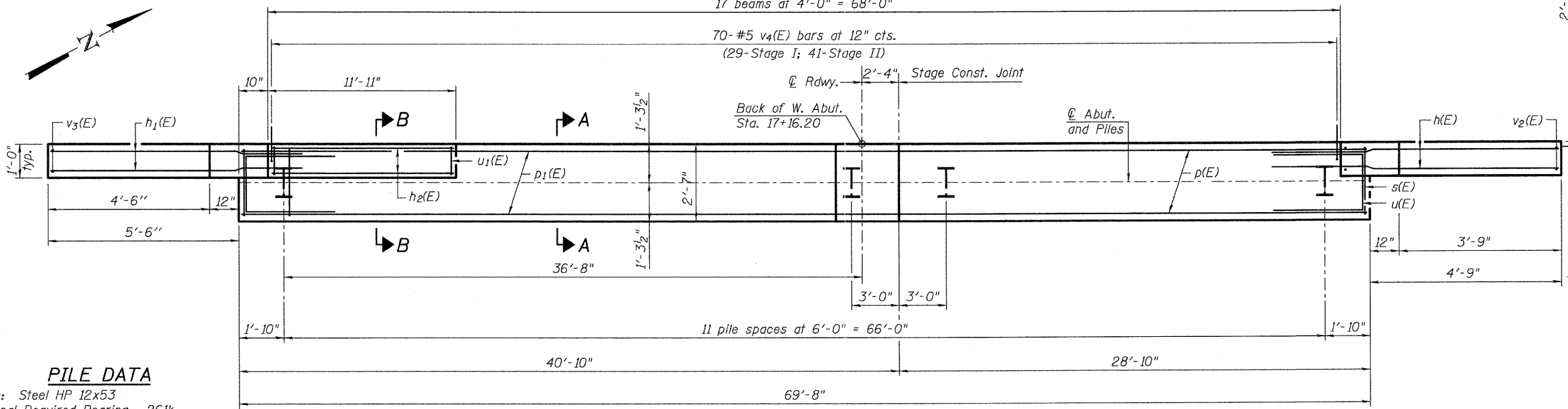
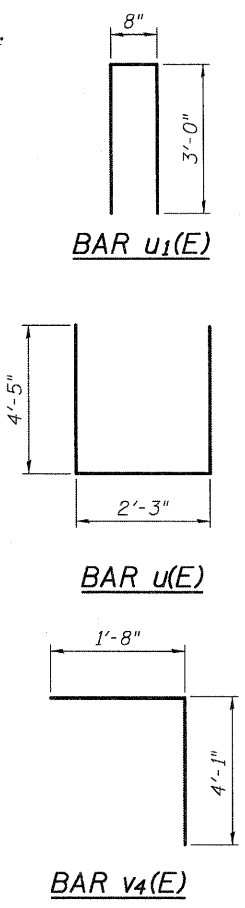
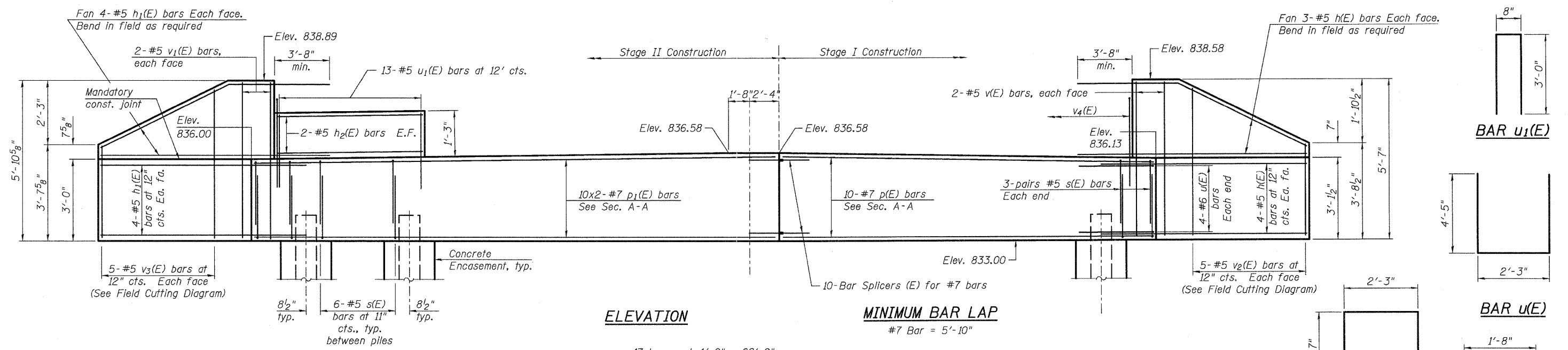
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PLOT DATE = 7/6/2011	DRAWN - MLH	REVISIONS -
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DEPARTMENT OF TRANSPORTATION

21" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 019-6107

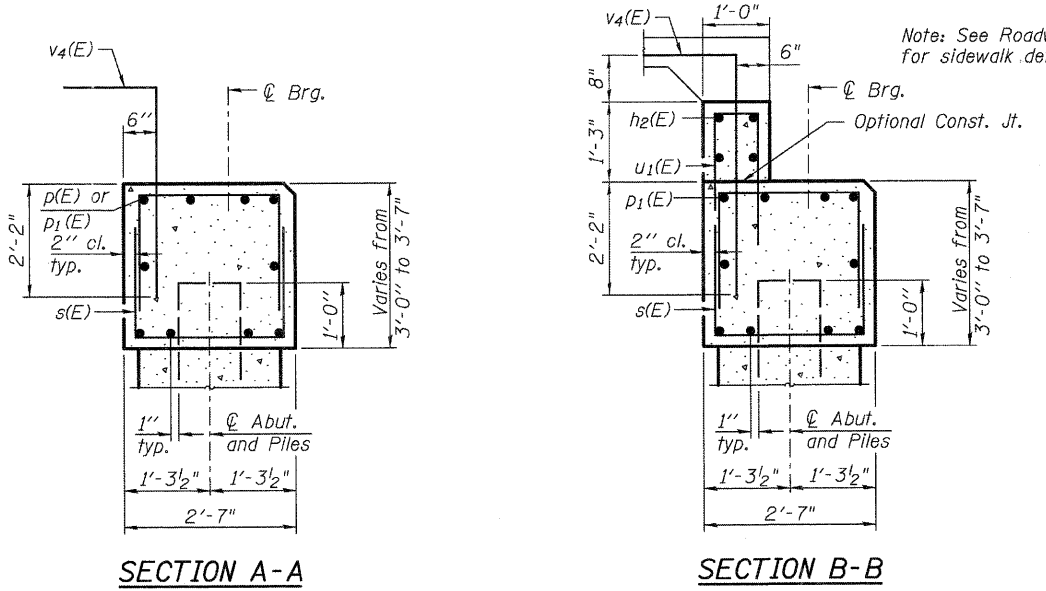
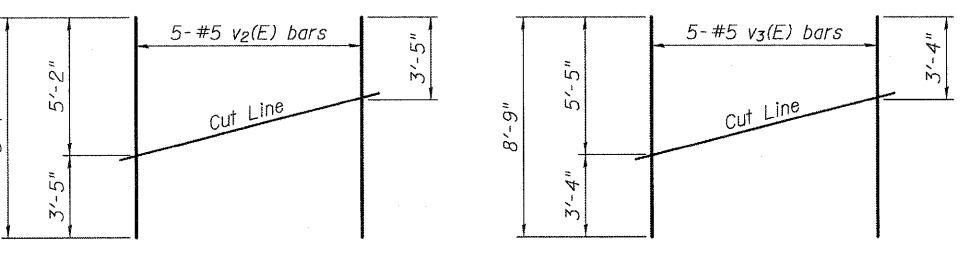
SHEET NO. 15 OF 24 SHEETS

F.A.U. RTE. 5355	SECTION 04-00167-00-BR	COUNTY DEKALB	TOTAL SHEETS 88	SHEET NO. 61
FED. ROAD DIST. NO. ILLINOIS			FED. AID PROJECT	



PILE DATA

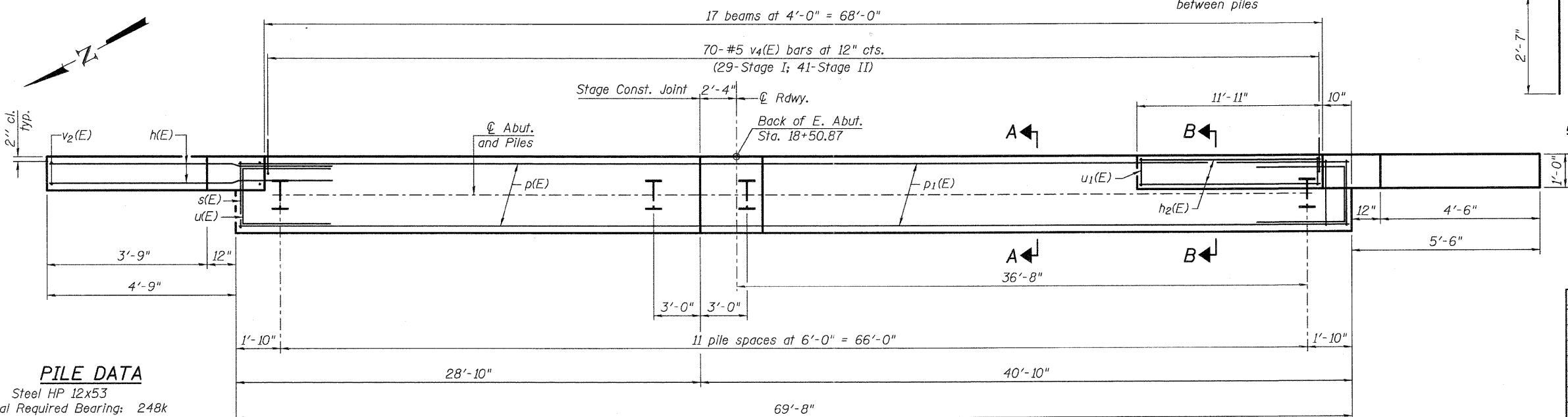
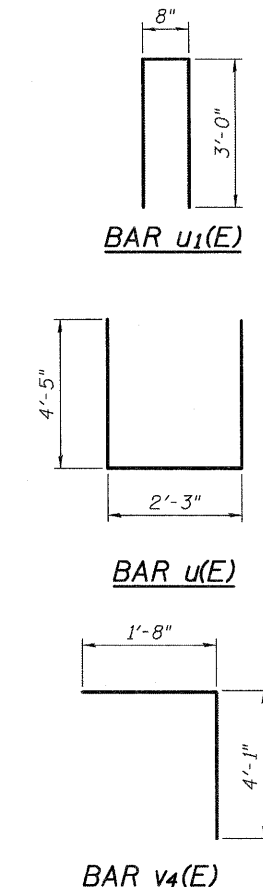
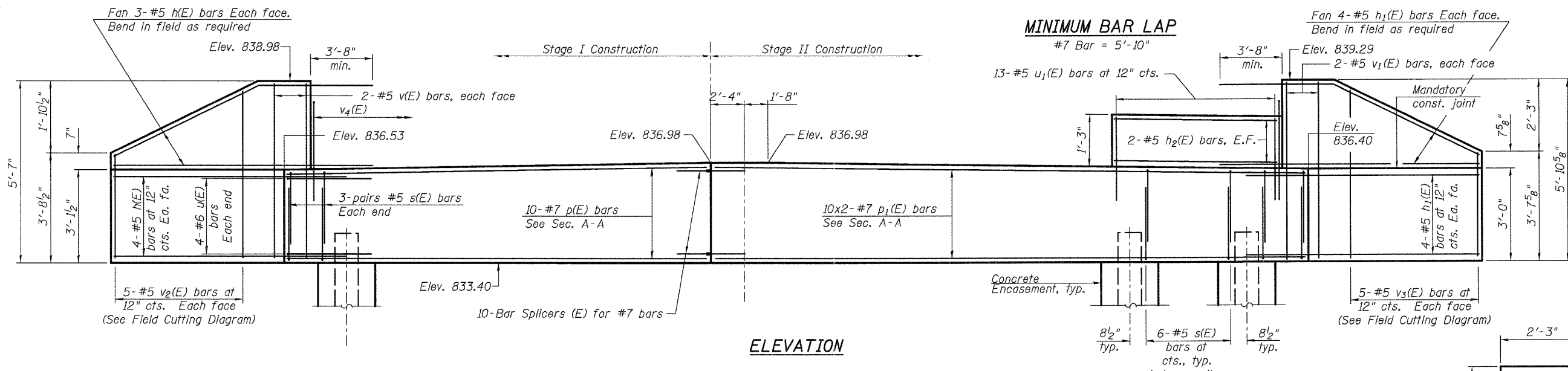
Type: Steel HP 12x53
Nominal Required Bearing: 261k
Factored Resistance Available: 143k
Est. Length: 34'
No. Production Piles: 11
No. Test Piles: 1



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	14	#5	9'-5"	—
h ₁ (E)	16	#5	10'-4"	—
h ₂ (E)	4	#5	11'-7"	—
p(E)	10	#7	28'-6"	—
p ₁ (E)	20	#7	23'-2"	—
s(E)	144	#5	7'-5"	□
u(E)	8	#6	11'-1"	□
u ₁ (E)	13	#5	6'-8"	□
v(E)	4	#5	5'-3"	—
v ₁ (E)	4	#5	5'-7"	—
v ₂ (E)	5	#5	8'-7"	—
v ₃ (E)	5	#5	8'-9"	—
v ₄ (E)	70	#5	5'-9"	└
Structure Excavation			Cu. Yd.	120
Concrete Structures			Cu. Yd.	24.8
Reinforcement Bars, Epoxy Coated			Pound	3,780
Furnishing Steel Piles, HP 12x53			Foot	374
Driving Piles			Foot	374
Test Pile Steel, HP 12x53			Each	1
Concrete Encasement			Cu. Yd.	4.2

For details of Bar Splicers, see sheet 20 of 24.
For details of piles and Concrete Encasement, see sheet 19 of 24.

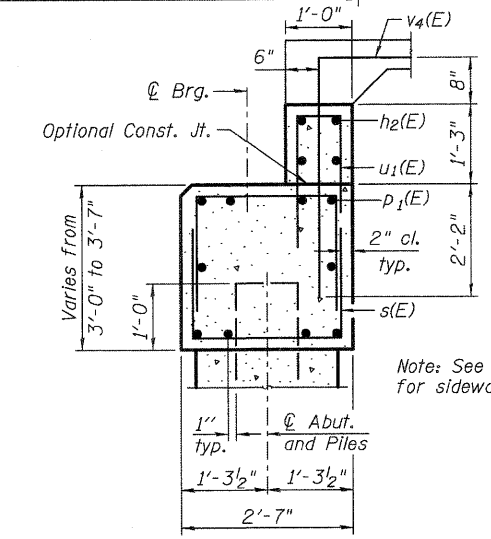
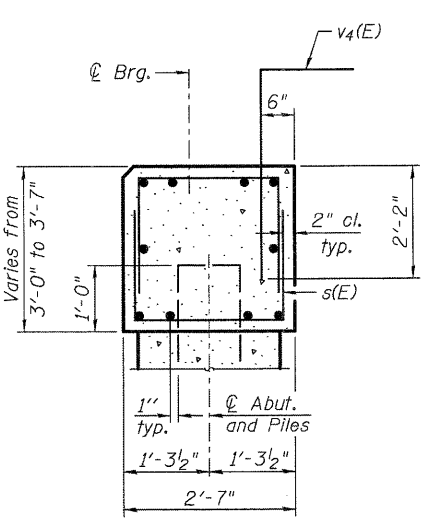
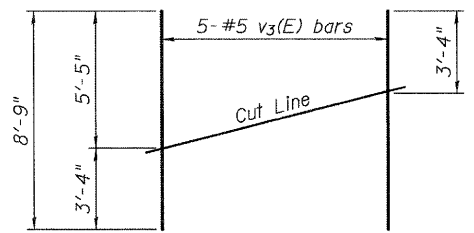
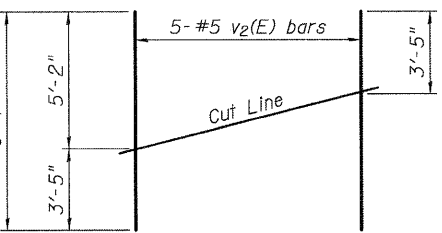


PILE DATA

Type: Steel HP 12x53
 Nominal Required Bearing: 248k
 Factored Resistance Available: 137k
 Est. Length: 34'
 No. Production Piles: 11
 No. Test Piles: 1

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	14	#5	9'-5"	—
h ₁ (E)	16	#5	10'-4"	—
h ₂ (E)	4	#5	11'-7"	—
p(E)	10	#7	28'-6"	—
p ₁ (E)	20	#7	23'-2"	—
s(E)	144	#5	7'-5"	□
u(E)	8	#6	11'-1"	□
u ₁ (E)	13	#5	6'-8"	□
v(E)	4	#5	5'-3"	—
v ₁ (E)	4	#5	5'-7"	—
v ₂ (E)	5	#5	8'-7"	—
v ₃ (E)	5	#5	8'-9"	—
v ₄ (E)	70	#5	5'-9"	└
Structure Excavation		Cu. Yd.	120	
Concrete Structures		Cu. Yd.	24.8	
Reinforcement Bars, Epoxy Coated		Pound	3,780	
Furnishing Steel Piles, HP 12x53		Foot	374	
Driving Piles		Foot	374	
Test Pile Steel, HP 12x53		Each	1	
Concrete Encasement		Cu. Yd.	4.2	



Note: See Roadway plans for sidewalk details.

For details of Bar Splicers, see sheet 20 of 24.

For details of piles and Concrete Encasement, see sheet 19 of 24.

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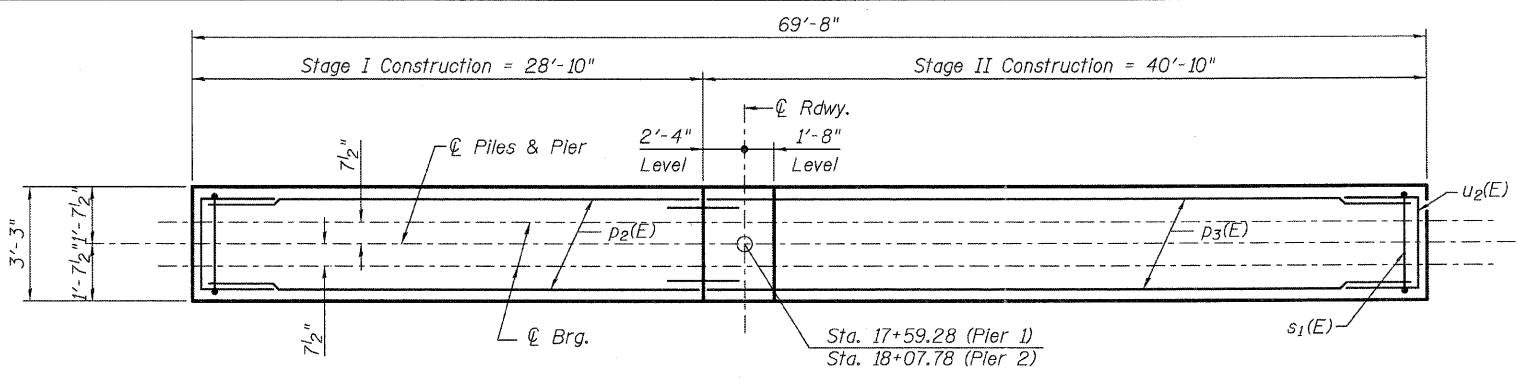
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PLOT DATE = 7/6/2011	DRAWN - AWH	REVISED -
	CHECKED - AEU	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 019-6107
 SHEET NO. 17 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	63
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 87491	



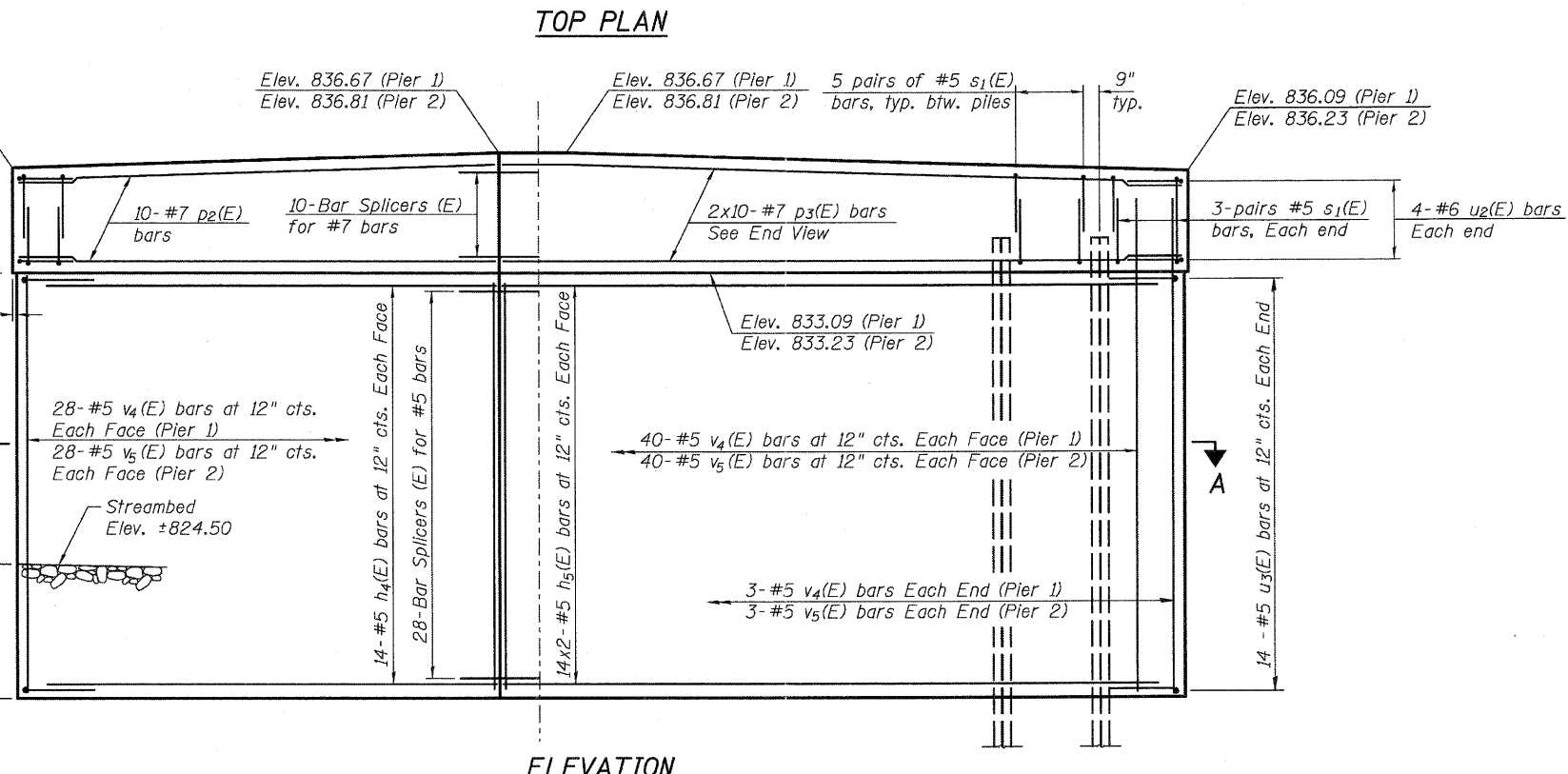
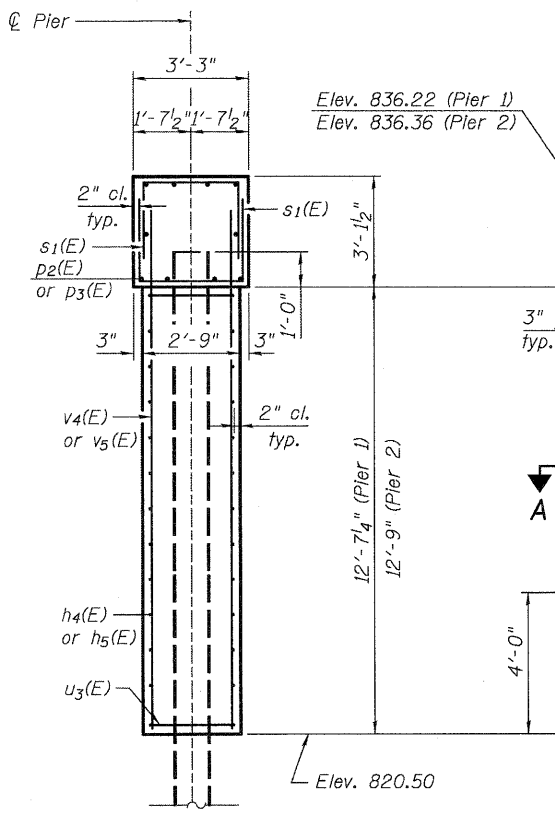
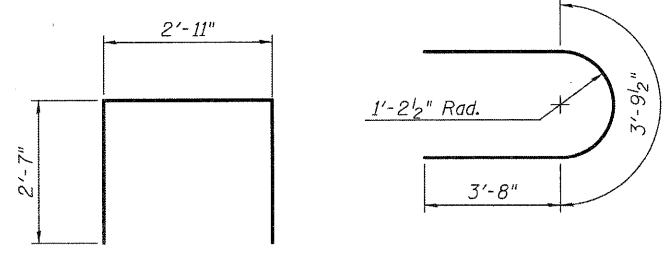
PIER 1

Type: Steel HP 14x73
 Nominal Required Bearing: 403 kips
 Factored Resistance Available: 208 kips
 Est. Length: 56'
 No. Production Piles: 11
 No. Test Piles: 1

PILE DATA

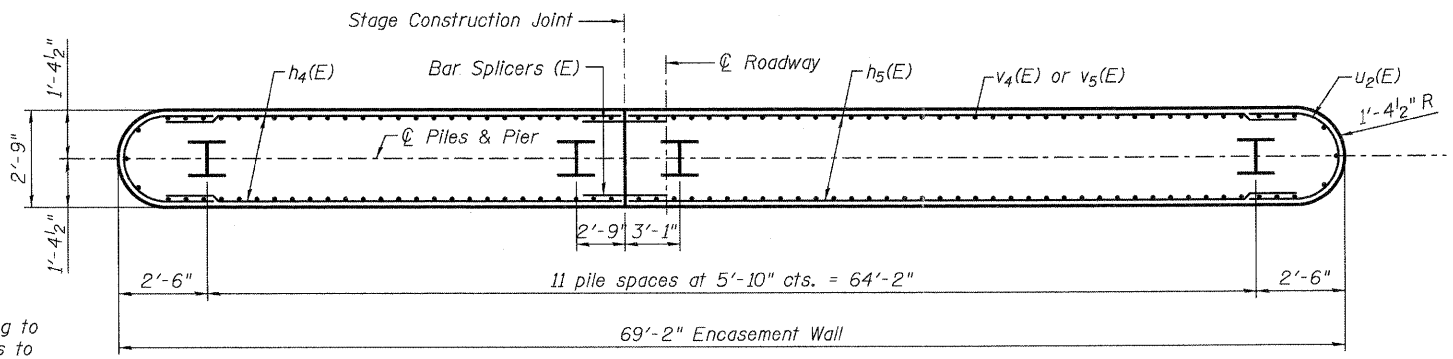
PIER 2

Type: Steel HP 14x73
 Nominal Required Bearing: 403 kips
 Factored Resistance Available: 208 kips
 Est. Length: 56'
 No. Production Piles: 11
 No. Test Piles: 1



MINIMUM BAR LAP

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



Note:
 If a portion of the pier wall is underwater, reinforcement may be placed underwater into forms. Concrete shall be tirmed according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

TWO PIERS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h4(E)	56	#5	27'-1"	—
h5(E)	112	#5	21'-2"	—
p2(E)	20	#7	28'-6"	—
p3(E)	40	#7	23'-2"	—
s1(E)	244	#5	8'-1"	⌊
u2(E)	16	#6	11'-5"	⌊
u3(E)	56	#5	11'-2"	⌊
v4(E)	142	#5	14'-9"	—
v5(E)	142	#5	14'-11"	—
Structure Excavation	Cu. Yd.		183	
Concrete Structures	Cu. Yd.		233.0	
Reinforcement Bars, Epoxy Coated	Pound		14,490	
Furnishing Steel Piles HP14x73	Foot		1,232	
Driving Piles	Foot		1,232	
Test Pile Steel HP14x73	Each		2	

Bars indicated thus 14x2-#5 etc. indicates 14 lines of bars with 2 lengths per line.

Space reinforcement in pier cap to miss anchor dowels. For details of piles see sheet 20 of 24.

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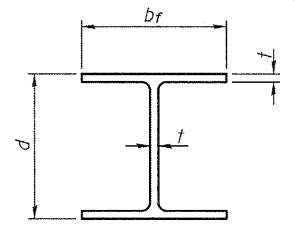
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

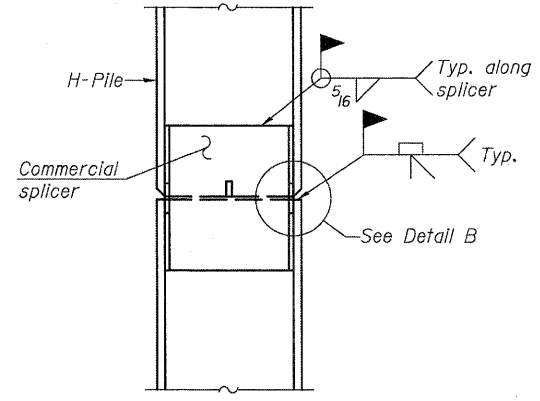
**PIERS 1 & 2
 STRUCTURE NO. 019-6107**
 SHEET NO. 18 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 87491				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

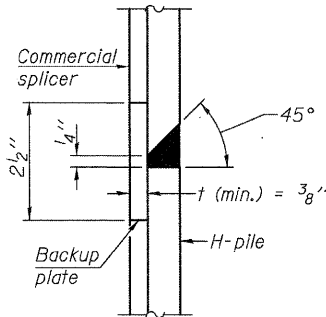


STEEL PILE TABLE

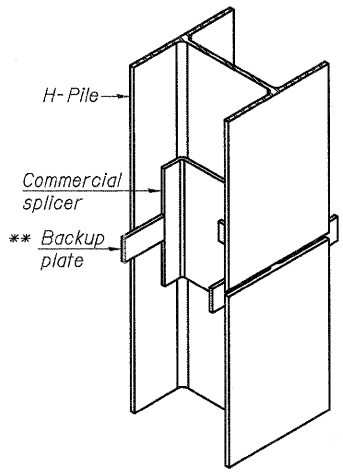
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

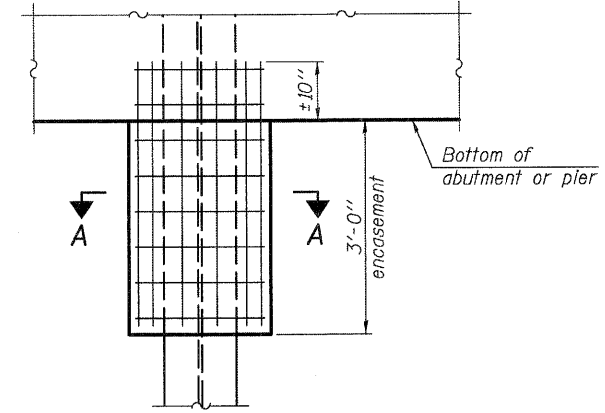


DETAIL "B"



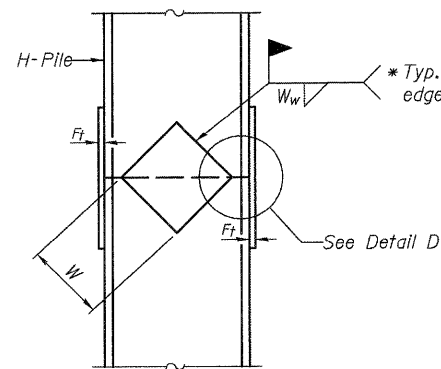
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



ELEVATION

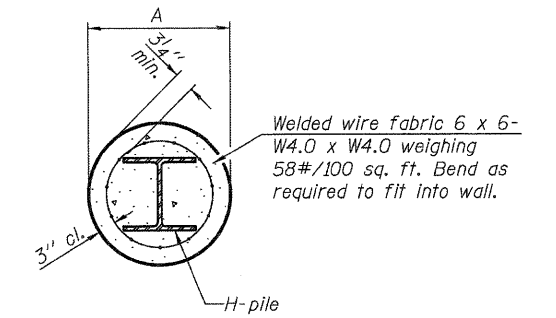
PILE ENCASEMENT



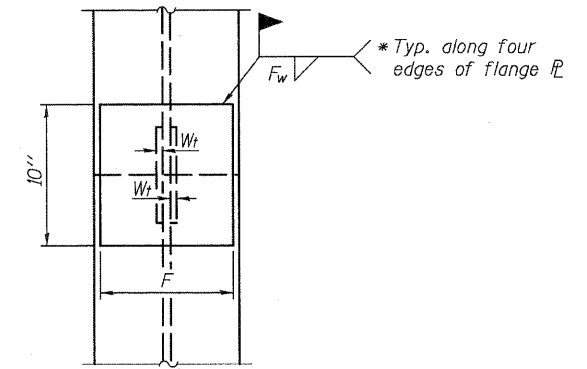
ELEVATION

DETAIL D

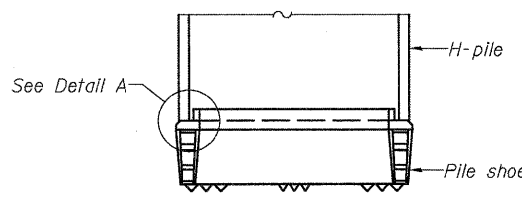
WELDED PLATE FIELD SPLICE



SECTION A-A



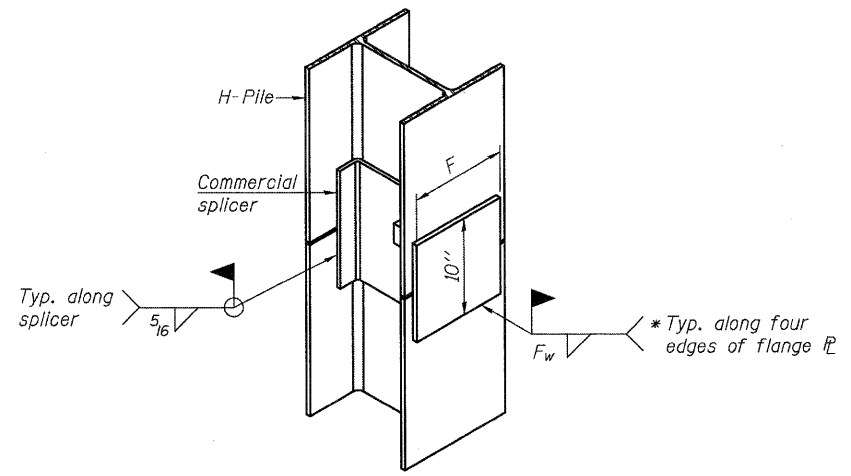
END VIEW



ELEVATION

DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 1/2"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 1/2"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5 1/2"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 1/2"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5 1/2"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5 1/2"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

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F-HP

7-1-10

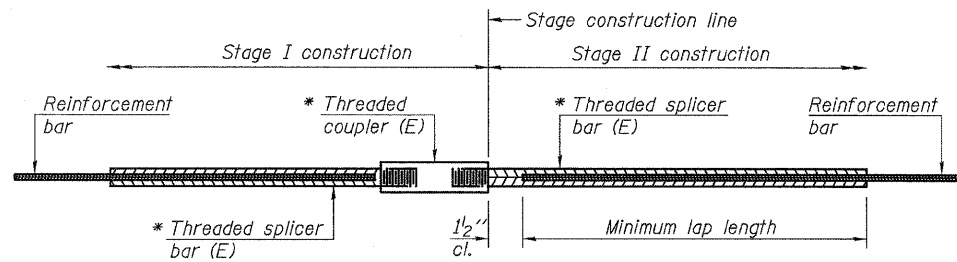
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HP PILE DETAILS
STRUCTURE NO. 019-6107**
SHEET NO. 19 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	65
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 87491	



STANDARD BAR SPLICER ASSEMBLY

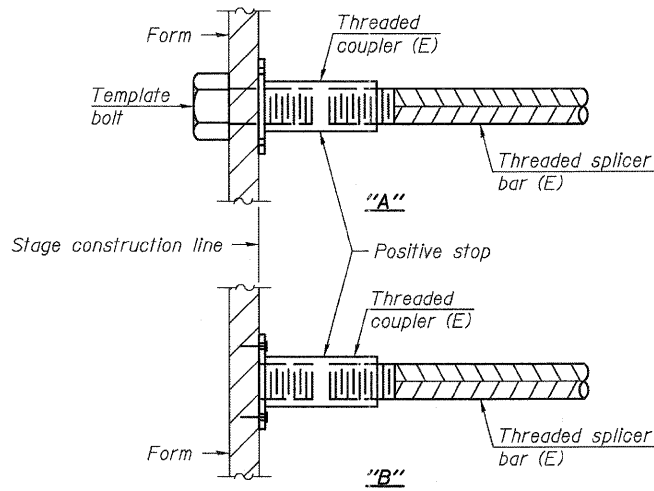
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

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

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

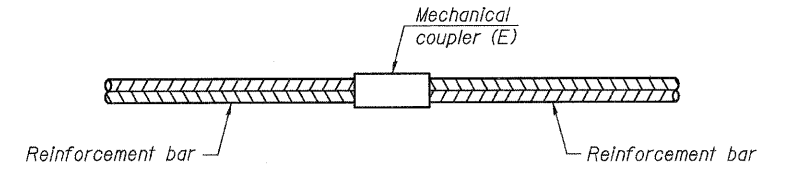
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
CWS	#4	134	Table 3
Approach Slab - Top	#4	92	Table 3
Approach Slab - Bottom	#5	50	Table 3
Approach Footing	#5	80	Table 3
West Abutment	#7	10	Table 3
East Abutment	#7	10	Table 3
Pier 1 - Cap	#7	10	Table 3
Pier 1 - Stem	#5	28	Table 3
Pier 2 - Cap	#7	10	Table 3
Pier 2 - Stem	#5	28	Table 3



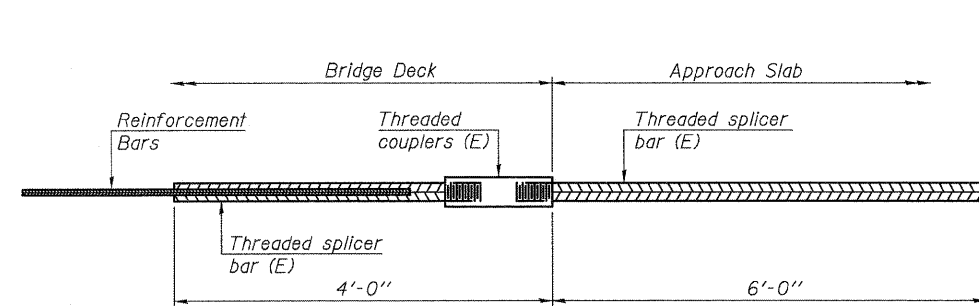
INSTALLATION AND SETTING METHODS

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



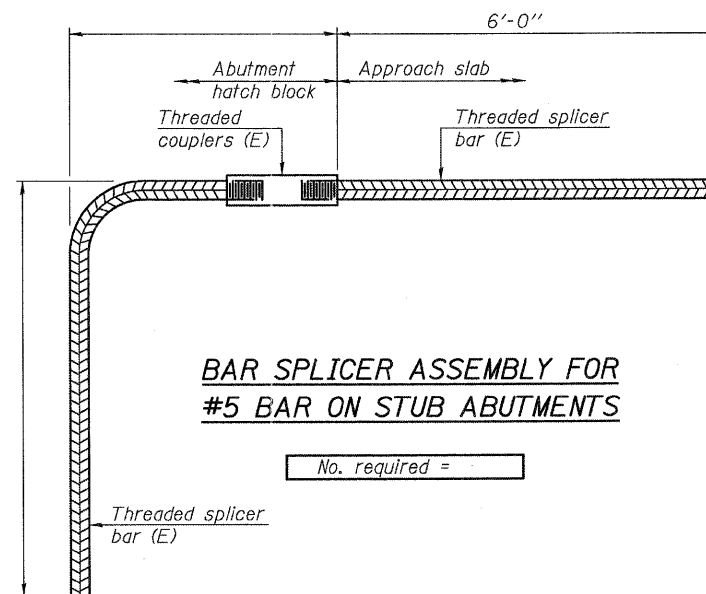
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



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

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

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

FILE NAME = W:\Projects\2010\100054 - Bechtel\Bentley\Structural\Drawings\100054-01-01-01.dgn

BSD-1

7-1-10

WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174
 (630) 443-7755

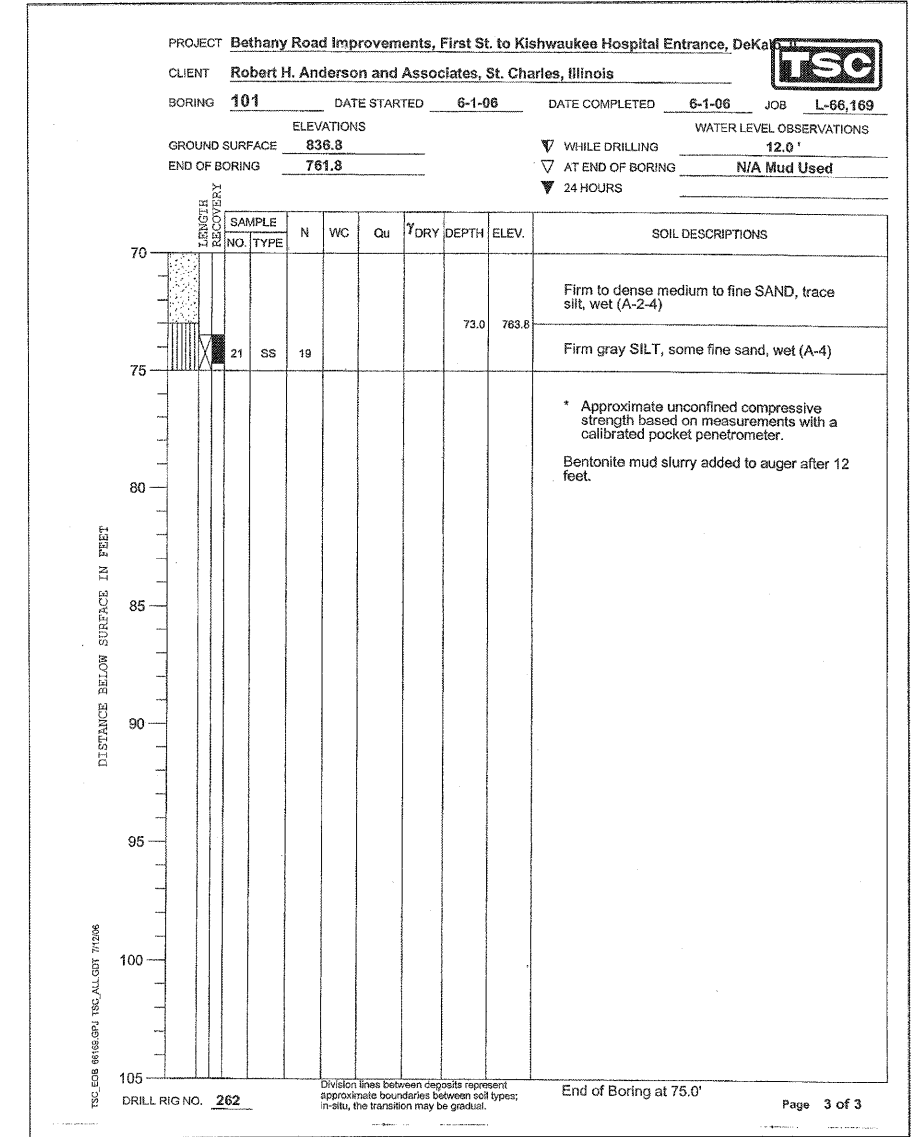
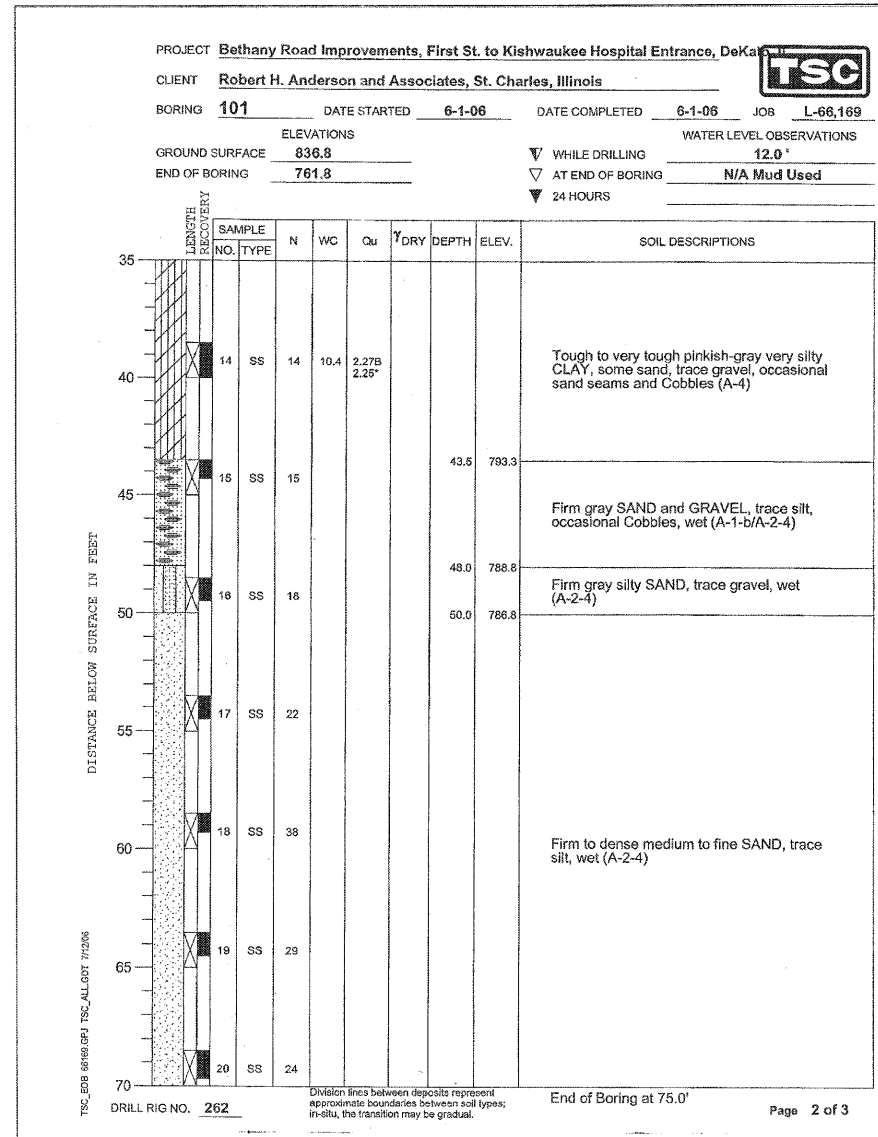
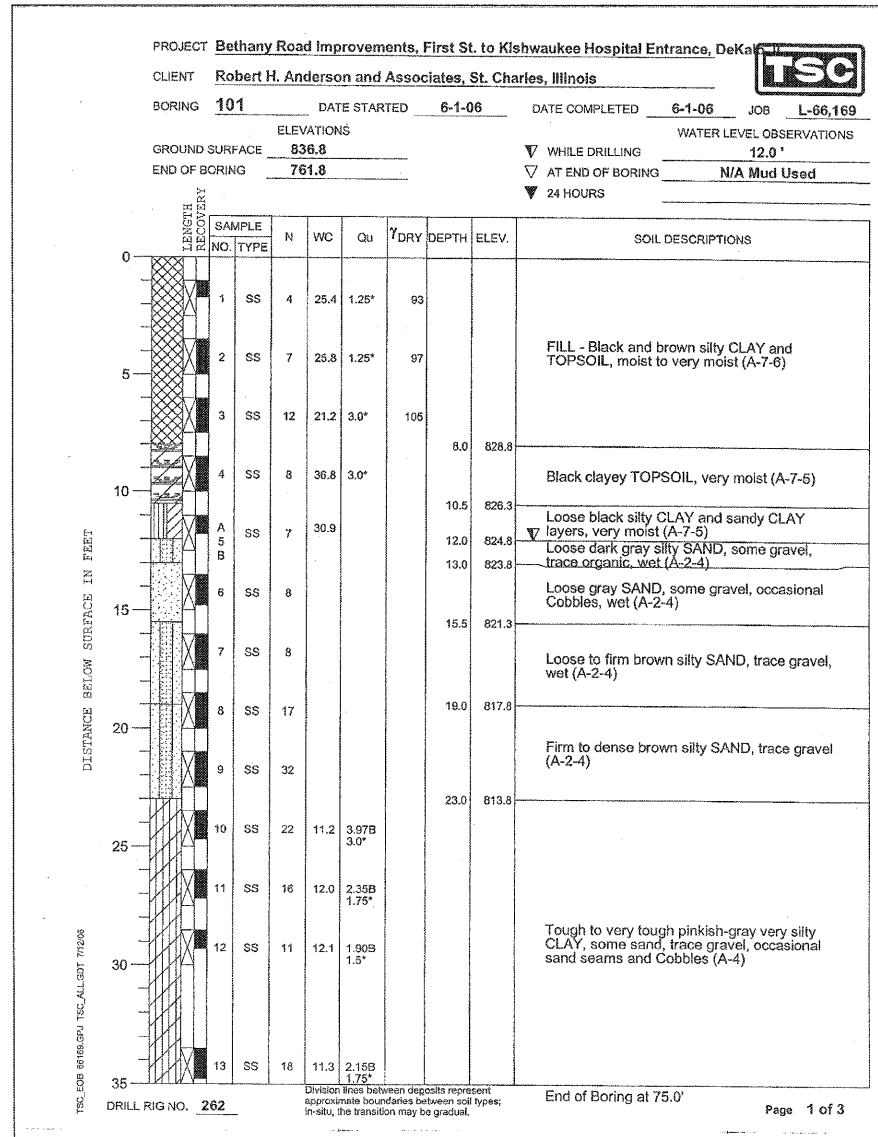
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	CHECKED - AEU	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY DETAILS
 STRUCTURE NO. 019-6107**

SHEET NO. 20 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	66
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 87491				



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	CHECKED - AEU	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOG I
STRUCTURE NO. 019-6107
SHEET NO. 21 OF 24 SHEETS

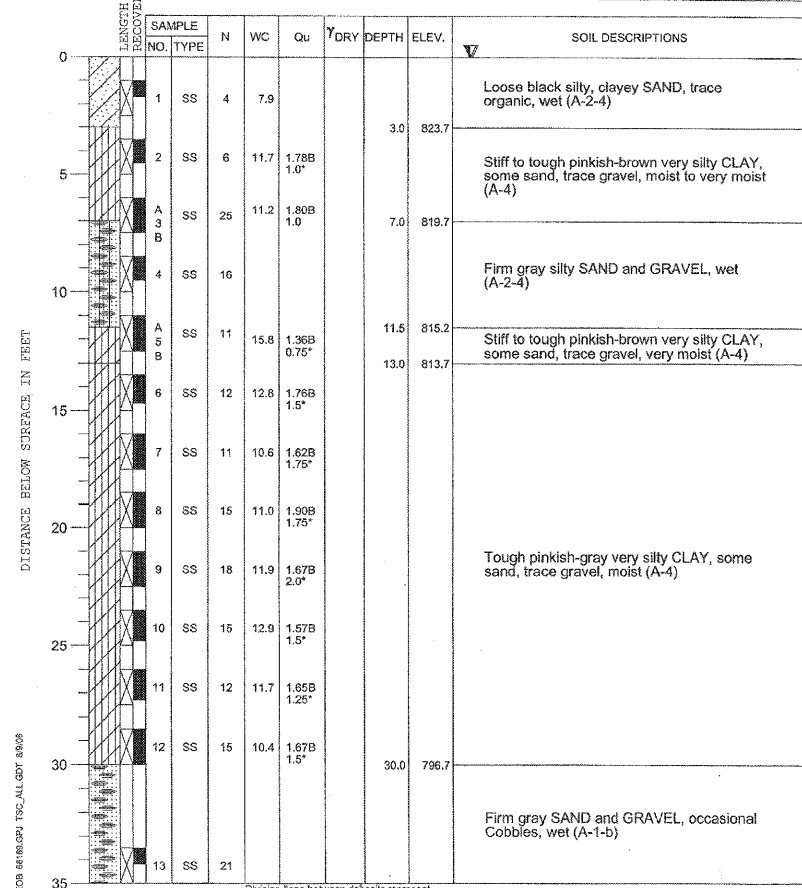
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	67
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 87491	

PROJECT **Bethany Road Improvements, First St. to Kishwaukee Hospital Entrance, DeKalb**
 CLIENT **Robert H. Anderson and Associates, St. Charles, Illinois**
 BORING **102** DATE STARTED **6-7-06** DATE COMPLETED **6-7-06** JOB **L-66,169**



ELEVATIONS
 GROUND SURFACE **826.7**
 END OF BORING **751.7**

WATER LEVEL OBSERVATIONS
 WHILE DRILLING **0.0'**
 AT END OF BORING **0.0'**
 24 HOURS



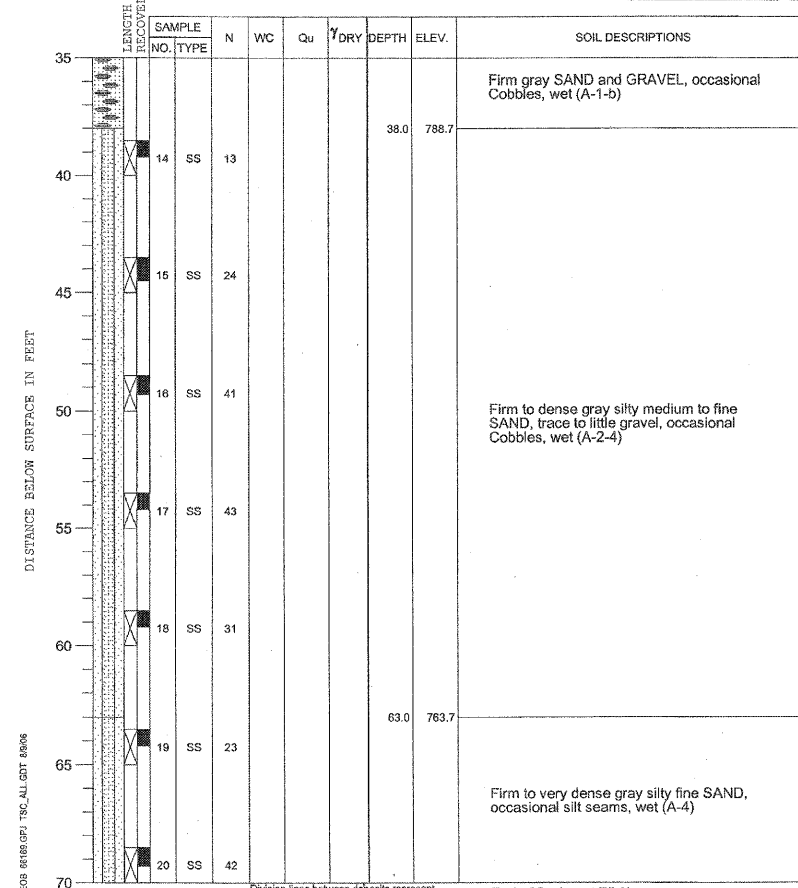
DRILL RIG NO. **127** End of Boring at 75.0' Page 1 of 3

PROJECT **Bethany Road Improvements, First St. to Kishwaukee Hospital Entrance, DeKalb**
 CLIENT **Robert H. Anderson and Associates, St. Charles, Illinois**
 BORING **102** DATE STARTED **6-7-06** DATE COMPLETED **6-7-06** JOB **L-66,169**



ELEVATIONS
 GROUND SURFACE **826.7**
 END OF BORING **751.7**

WATER LEVEL OBSERVATIONS
 WHILE DRILLING **0.0'**
 AT END OF BORING **0.0'**
 24 HOURS



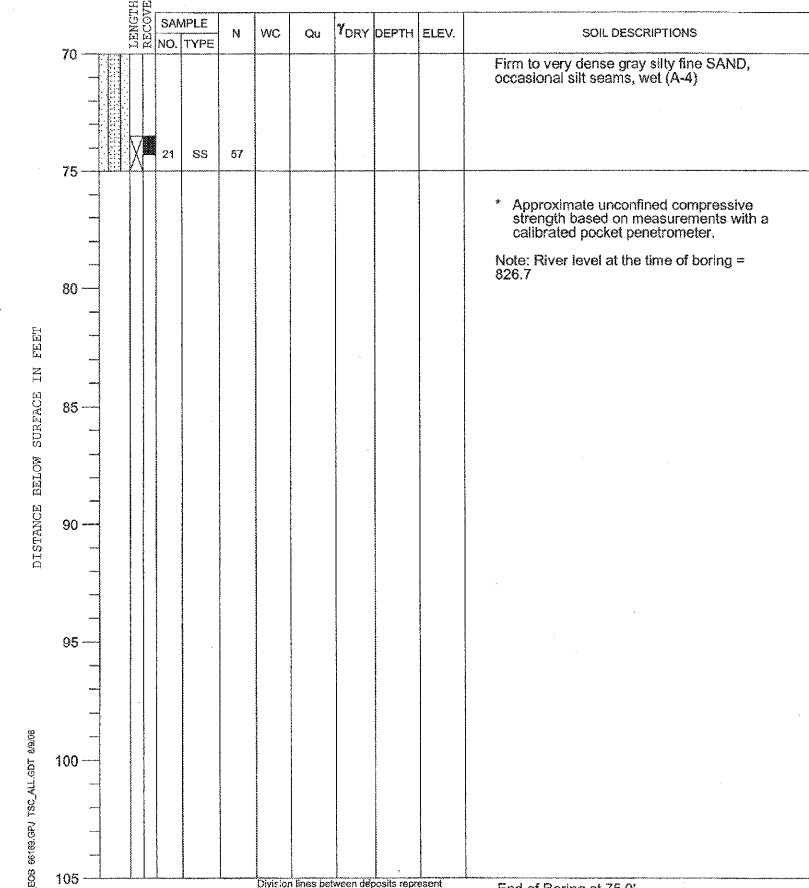
DRILL RIG NO. **127** End of Boring at 75.0' Page 2 of 3

PROJECT **Bethany Road Improvements, First St. to Kishwaukee Hospital Entrance, DeKalb**
 CLIENT **Robert H. Anderson and Associates, St. Charles, Illinois**
 BORING **102** DATE STARTED **6-7-06** DATE COMPLETED **6-7-06** JOB **L-66,169**



ELEVATIONS
 GROUND SURFACE **826.7**
 END OF BORING **751.7**

WATER LEVEL OBSERVATIONS
 WHILE DRILLING **0.0'**
 AT END OF BORING **0.0'**
 24 HOURS



DRILL RIG NO. **127** End of Boring at 75.0' Page 3 of 3

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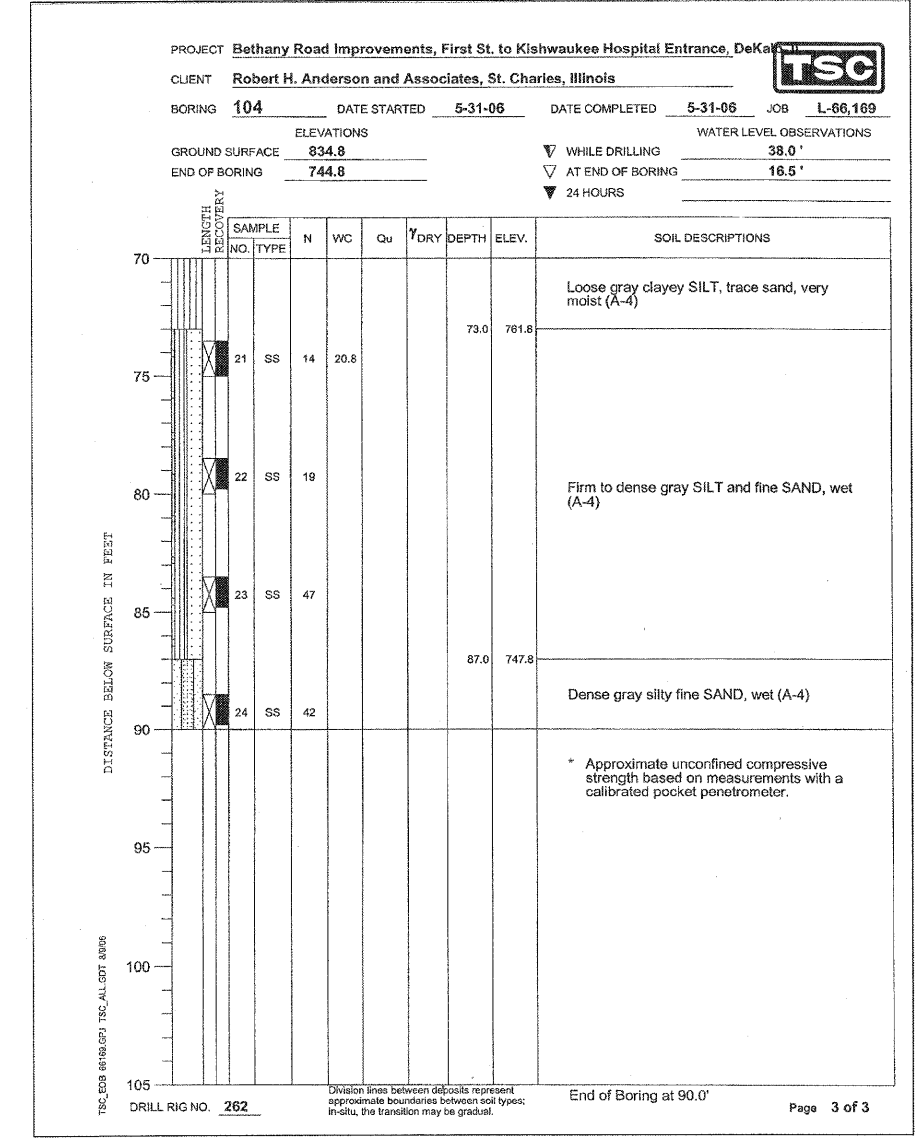
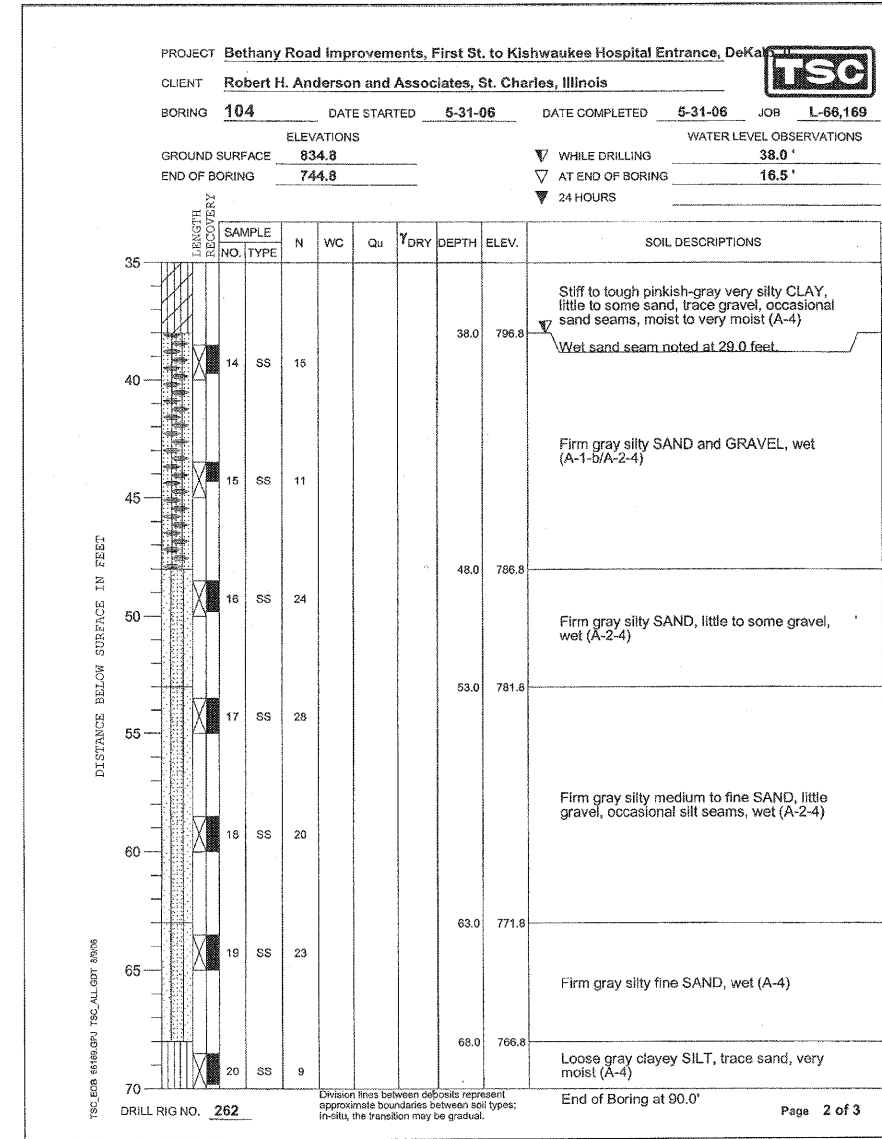
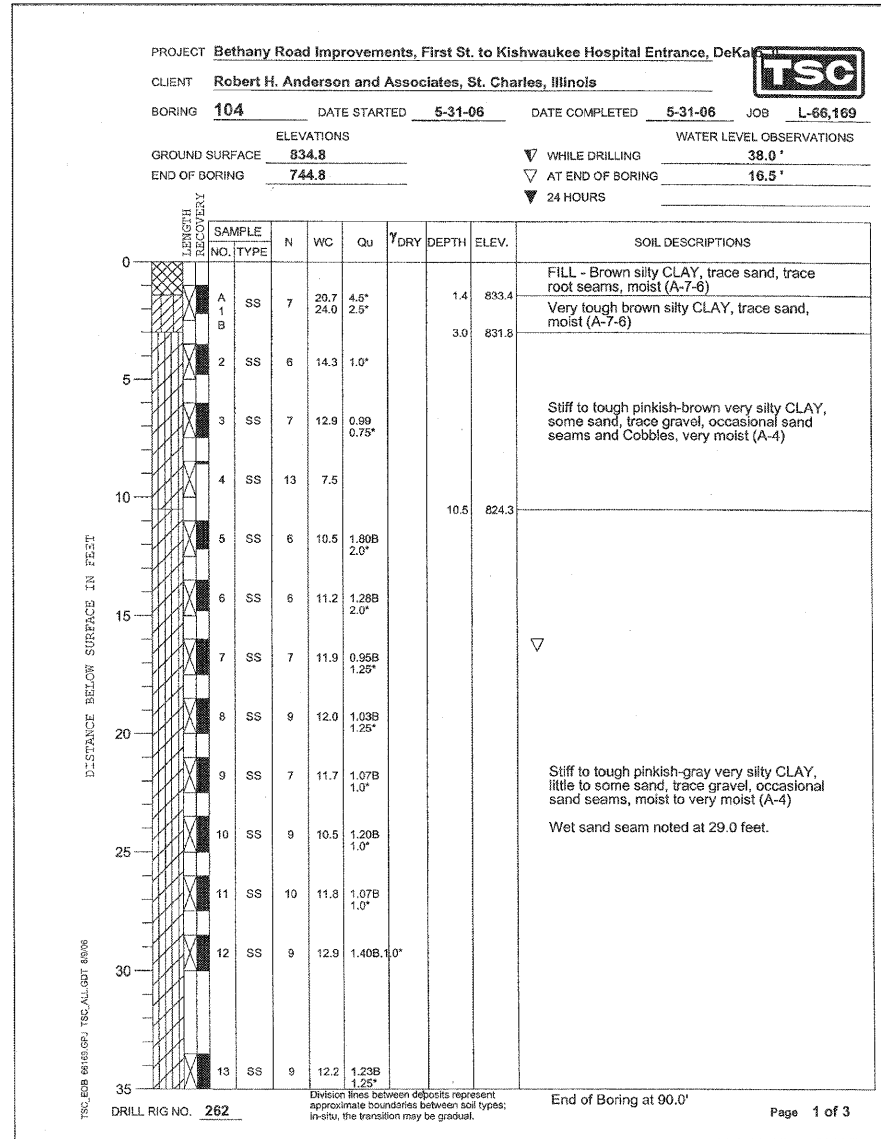


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	CHECKED - AEU	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOG II
 STRUCTURE NO. 019-6107**
 SHEET NO. 22 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	68
CONTRACT NO. 87491				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



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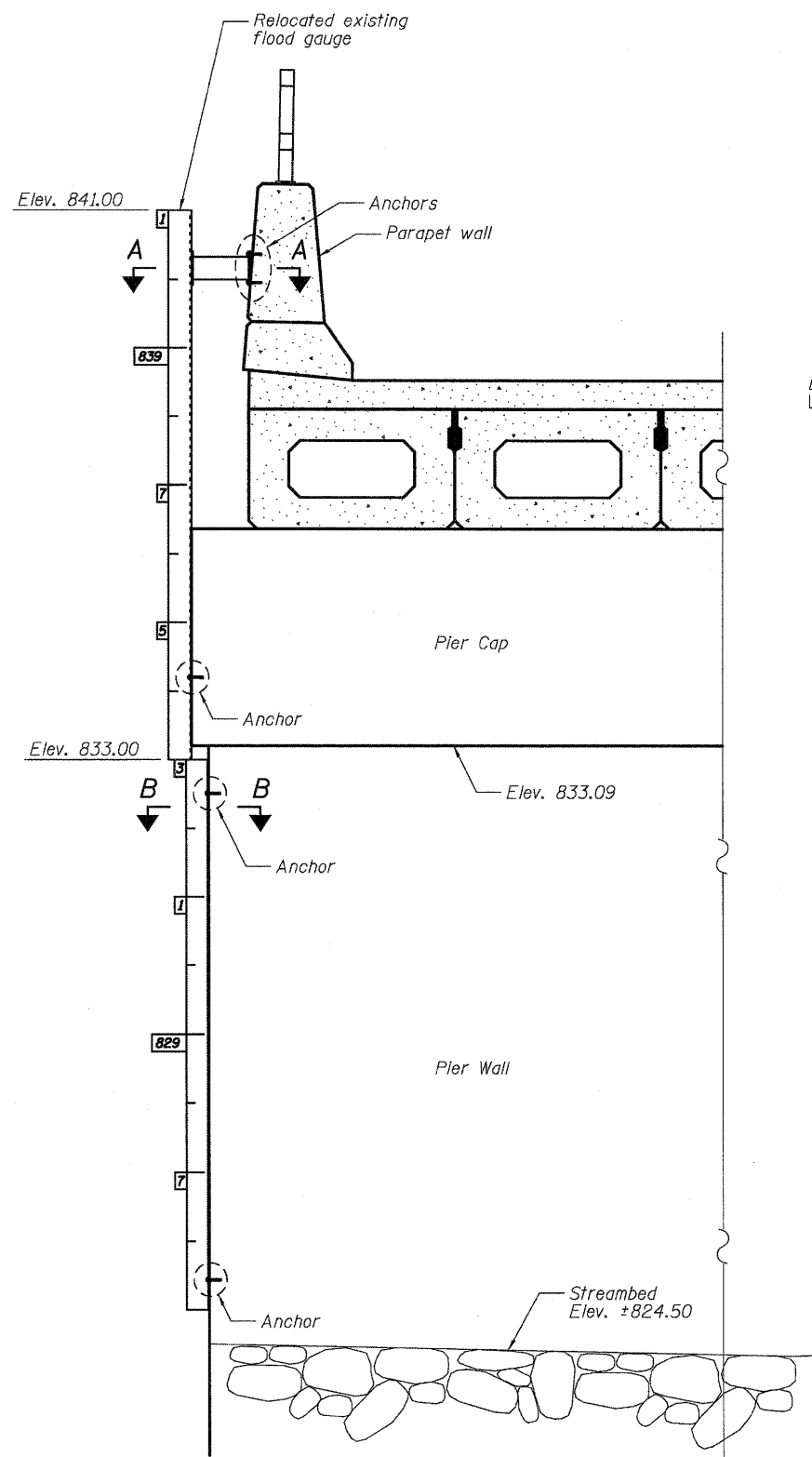
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

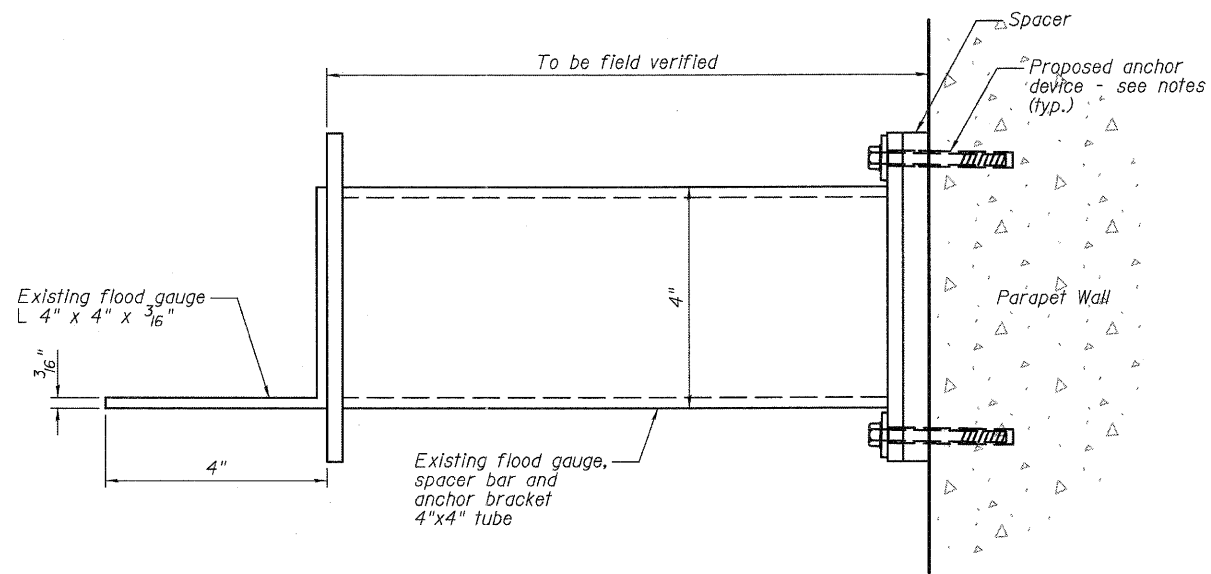
**SOIL BORING LOG III
STRUCTURE NO. 019-6107**

SHEET NO. 23 OF 24 SHEETS

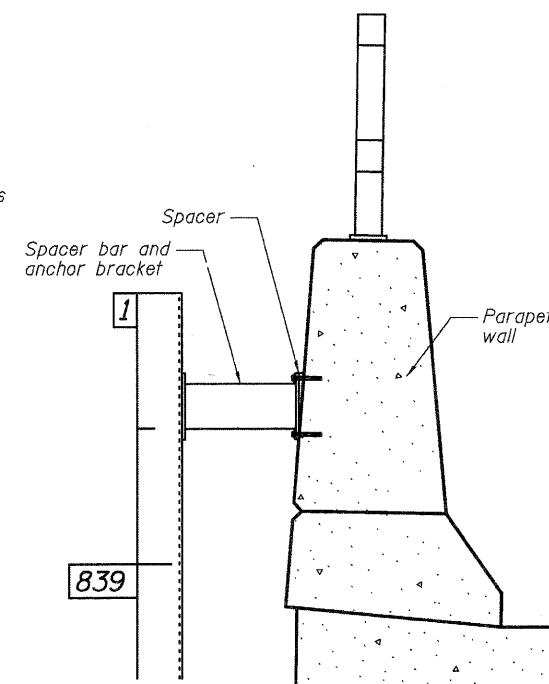
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 87491	



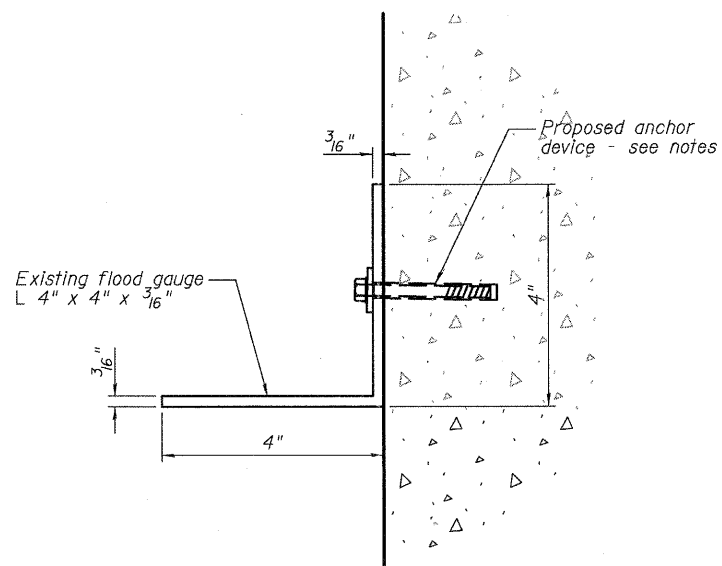
MOUNTING DETAIL - PIER 1
Sta. 17+59.28



ANCHOR DETAIL - PARAPET WALL
Section A-A



ANCHOR DETAIL - PARAPET WALL



ANCHOR DETAIL - PIER
Section B-B

Flood Gauge Notes:

1. The Contractor shall carefully remove and salvage the existing flood gauge and anchoring brackets from the northwest corner of the existing pier.
2. The Contractor shall re-attach the flood gauge to a location directed by the City of DeKalb Street Department at 1316 Market Street. The City will clean and provide any repairs required to the flood gauge. Once the City has completed their work on the flood gauge, the Contractor will be notified to pick up the flood gauge and reinstall it on the northwest corner of the proposed pier.
3. The Contractor will be required to provide all necessary brackets/spacers and anchoring devices to secure the flood gauge to the proposed pier and parapet wall.

Submittals:

1. Prior to re-attaching the flood gauge to Pier 1, the Contractor will be required to submit anchoring details and list of connection materials to the Resident Engineer for approval.

Payment:

1. Removing and relocating the flood gauge will not be measured for payment but shall be included in the cost of Removal of Existing Structures.

FILE NAME = \\A:\Projects\2010\100054 - Berthel\B-Asada\Structural\Draw\100054-024-FloodGauge.dgn

WBK
WILLS BURKE KELSEY ASSOCIATES LTD.
119 West Main Street, Suite 201
St. Charles, Illinois 60174
(630) 443-7755

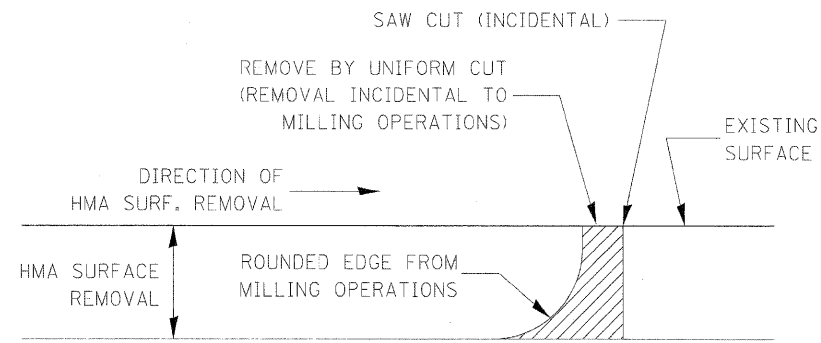
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FLOOD GAUGE DETAIL
STRUCTURE NO. 019-6107

SHEET NO. 24 OF 24 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 87491				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



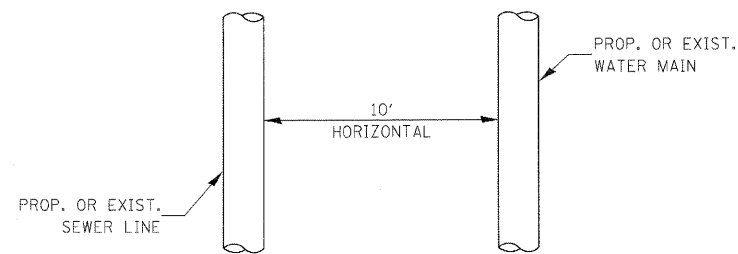
NOTE:

WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL

HMA DETAIL AT BUTT JOINTS

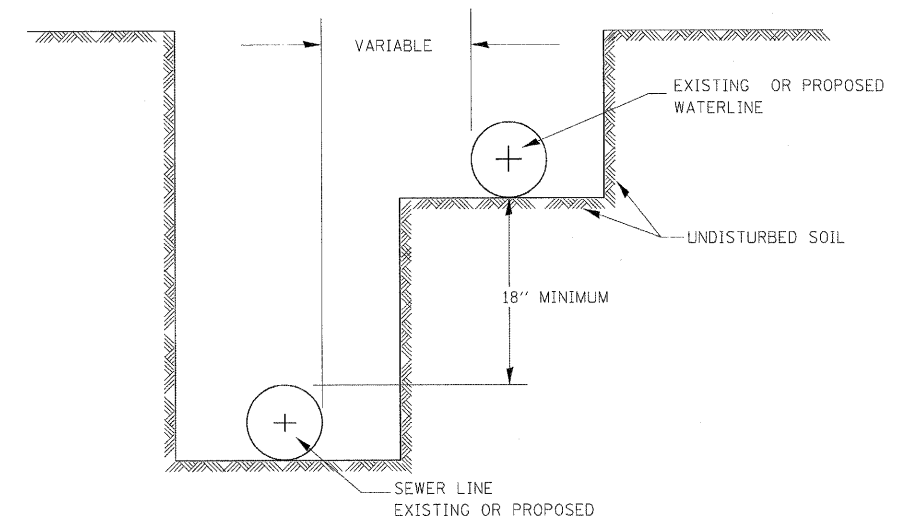
406-8

PROPOSED SEWER (OR WATER) IS LOCATED 10 FEET OR MORE FROM EXISTING WATER (OR SEWER).



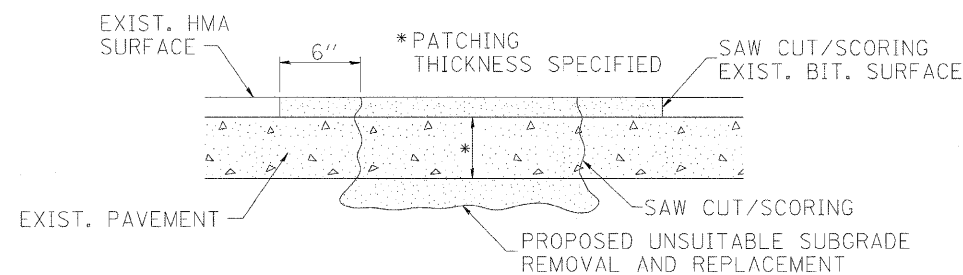
PLAN VIEW

PROPOSED SEWER (OR WATER) IS LOCATED LESS THAN 10 FEET FROM EXISTING WATER (OR SEWER).



WATER AND SEWER SEPARATION REQUIREMENTS - HORIZONTAL SEPARATION

563-3



SEQUENCE OF CONSTRUCTION

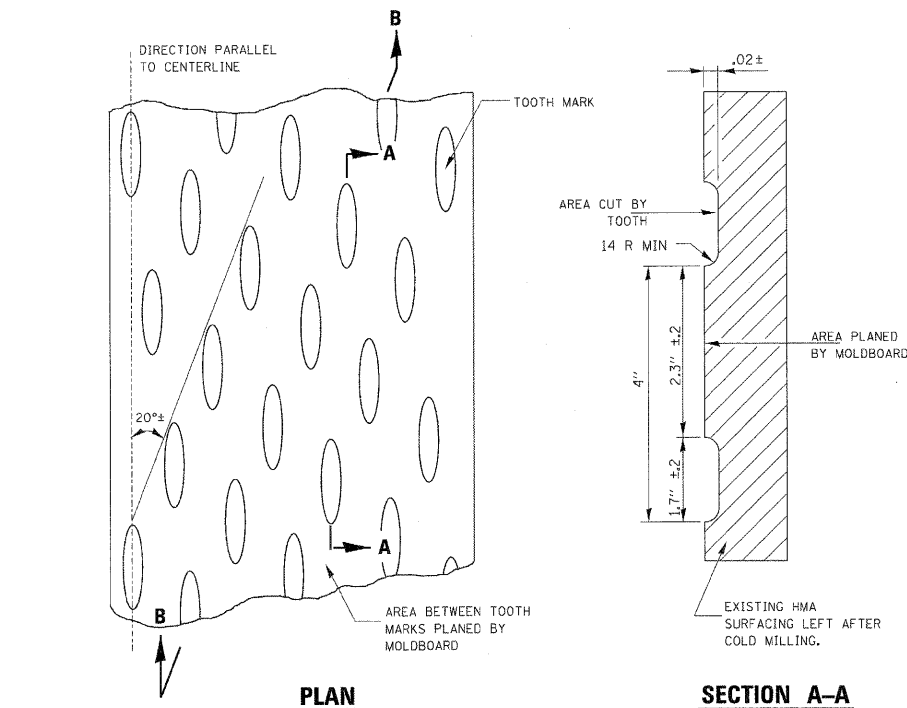
1. REMOVE THE EXISTING HMA SURFACE.
2. REMOVE AND REPLACE FULL DEPTH PATCHES.
3. REPLACE HMA SURFACE.

GENERAL NOTES

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12" WIDER ON EACH SIDE OF THE TRENCH.
2. FOR BASIS OF PAYMENT SEE SPECIAL PROVISION "PATCHING WITH HMA OVERLAY REMOVAL".

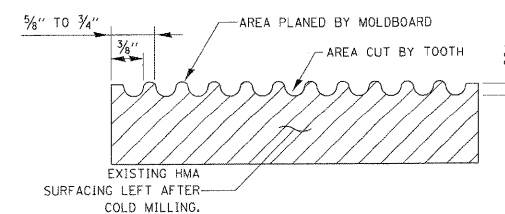
PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

442-1



PLAN

SECTION A-A



SECTION B-B
PROJECTED PERPENDICULAR
TO CENTERLINE

1. COLD MILLING SHALL CONSIST OF TWO PROCESSES: CUTTING WITH CARBIDE TEETH MOUNTED ON A ROTATING DRUM, AND PLANING WITH A MOLDBOARD MOUNTED IMMEDIATELY BEHIND THE CUTTING DRUM.
2. OTHER SIMILAR PATTERNS WILL BE ACCEPTABLE IF THEY CONSIST OF A SMOOTH, FLAT PLANED SURFACE INTERSPERSED WITH A PATTERN OF DISCONTINUOUS LONGITUDINAL STRIATIONS.

DESIGNER NOTE:
TO BE USED WITH RECURRING CHECK SHEET
"HMA SURFACE REMOVAL (COLD MILLING)"

REQUIRED COLD MILLED SURFACE TEXTURE

440-2

FILE NAME = M:\P\Projects\4281\1028254_Bestmilling\cadd\civil\09msh\07_3.dgn

WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174

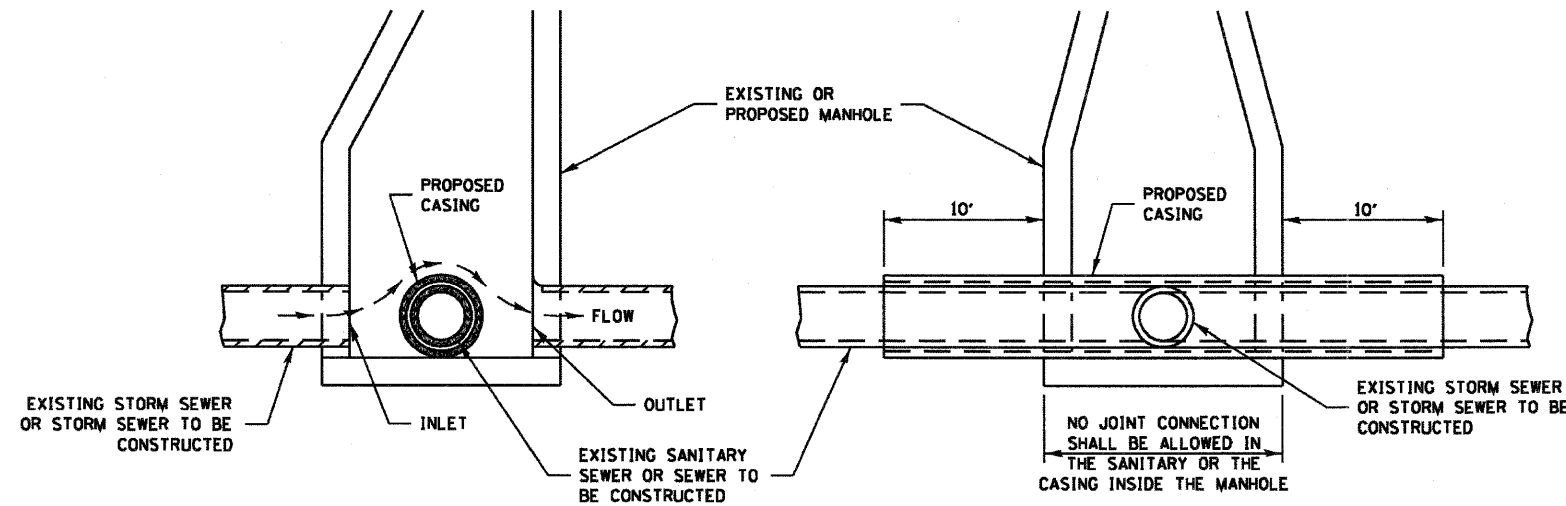
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	DATE = 7/8/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 3
STANDARD DETAILS**

SCALE: SHEET NO. 71 OF 88 SHEETS STA. TO STA.

F.A.U. RTE. 5355	SECTION 04-00167-00-BR	COUNTY DEKALB	TOTAL SHEETS 88	SHEET NO. 71
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT CONTRACT NO. 87491				

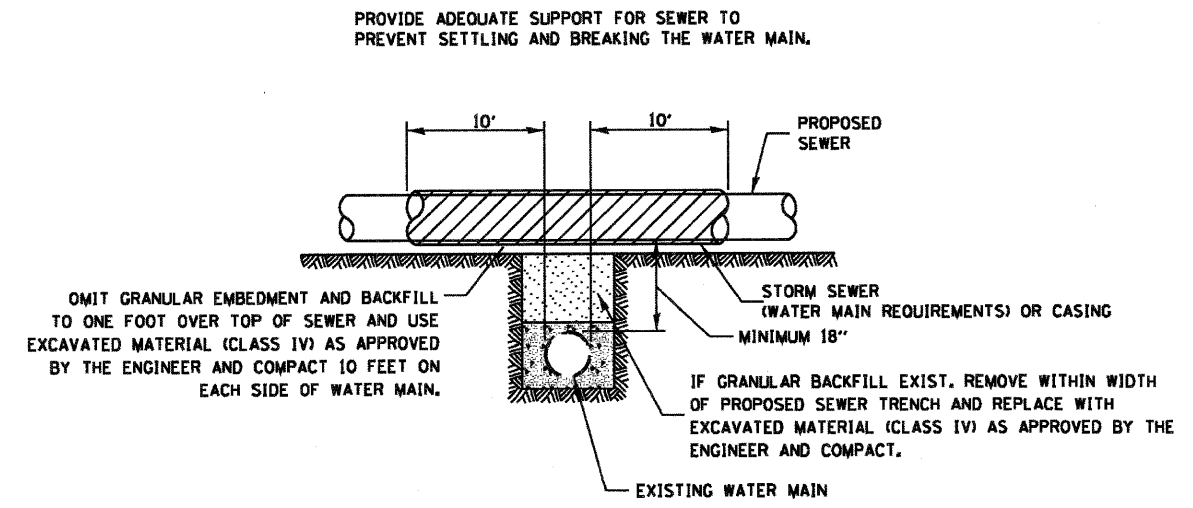


ELEVATION - ECCENTRIC

ELEVATION - CONCENTRIC

**AT GRADE CROSSING OF
SANITARY AND STORM SEWER**

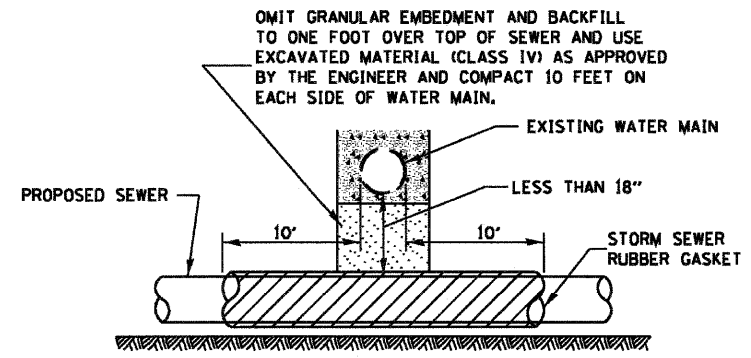
CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED



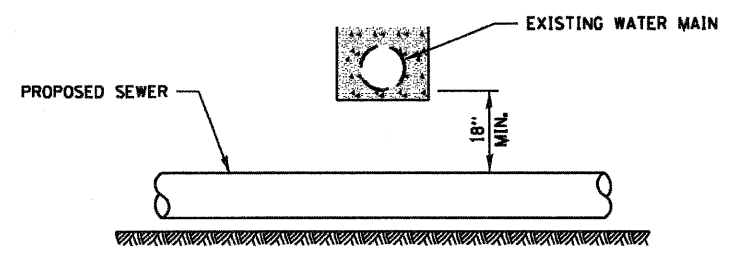
**PROPOSED SEWER LINE WITH MINIMUM
18" VERTICAL SEPARATION ABOVE
EXISTING WATERMAIN**

CASING SHALL BE OF WATERMAIN MATERIAL WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN
 PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH



PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH
 MAINTAIN 18" MINIMUM VERTICAL SEPARATION FOR 10' HORIZONTALLY

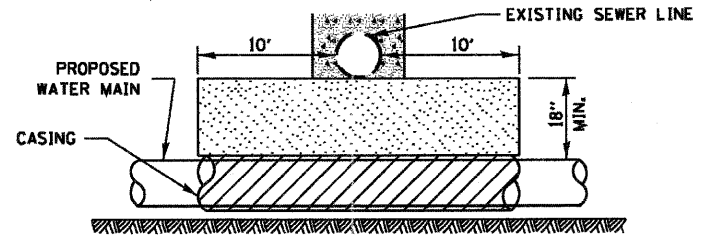


**PROPOSED SEWER LINE
BELOW EXISTING WATER MAIN**

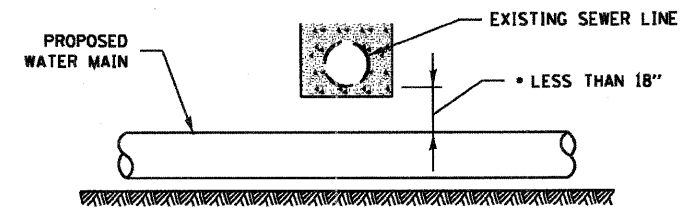
PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT.

IF GRANULAR BACK FILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER TRENCH AND REPLACE WITH EXCAVATED MATERIAL (CLASS IV) AS APPROVED BY THE ENGINEER AND COMPACT.

OMIT GRANULAR EMBEDMENT AND BACKFILL TO ONE FOOT OVER TOP OF WATER MAIN AND USE EXCAVATED MATERIAL (CLASS IV) AS APPROVED BY THE ENGINEER AND COMPACT FOR 10' EITHER SIDE OF SEWER LINE.



CASING SHALL BE OF WATER MAIN MATERIAL WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

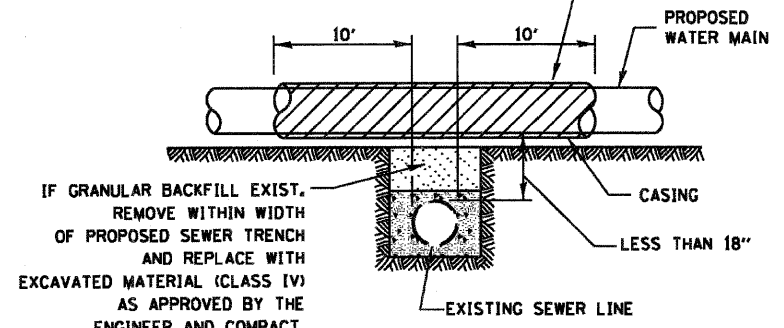


• NOT ALLOWED
MUST MAINTAIN 18" VERTICAL SEPARATION

**PROPOSED WATER MAIN
BELOW EXISTING SEWER LINE**

POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN CASING AND SEWER

OMIT GRANULAR EMBEDMENT AND BACKFILL TO ONE FOOT OVER TOP OF SEWER AND USE EXCAVATED MATERIAL (CLASS IV) AS APPROVED BY THE ENGINEER AND COMPACT 10 FEET ON EACH SIDE OF WATER MAIN.



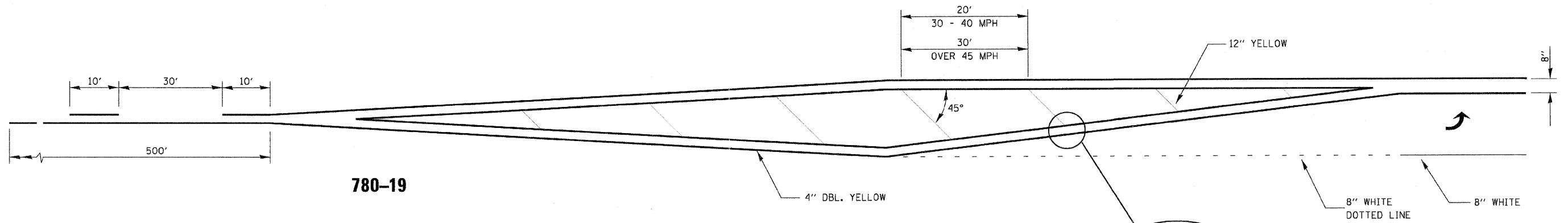
IF GRANULAR BACKFILL EXIST, REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH EXCAVATED MATERIAL (CLASS IV) AS APPROVED BY THE ENGINEER AND COMPACT.

CASING SHALL BE OF WATERMAIN MATERIAL WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

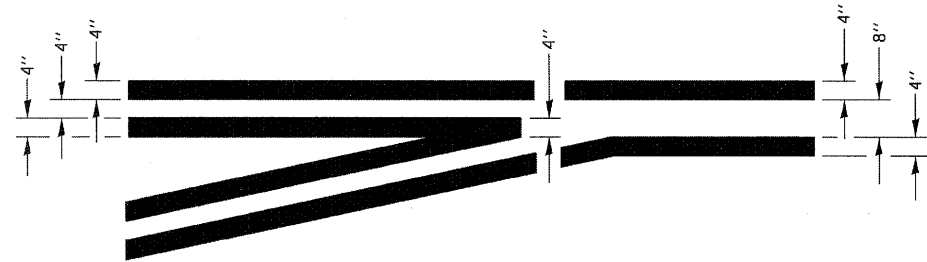
**PROPOSED WATER MAIN
ABOVE EXISTING SEWER LINE**

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WILLIS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174	USER NAME = nparris	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 3 STANDARD DETAILS	F.A.U. RTE. 5355	SECTION 04-00167-00-BR	COUNTY DEKALB	TOTAL SHEETS 88	SHEET NO. 72		
	PLOT SCALE =	DRAWN -	REVISED -			SCALE:	SHEET NO. 72 OF 88 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT			
	PLOT DATE = 7/6/2011	CHECKED -	REVISED -			DATE = 7/8/11	CONTRACT NO. 87491					

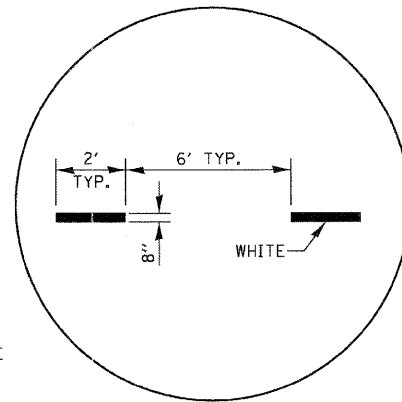


780-19



**TYPICAL APPLICATION
@ LEFT TURN LANES**

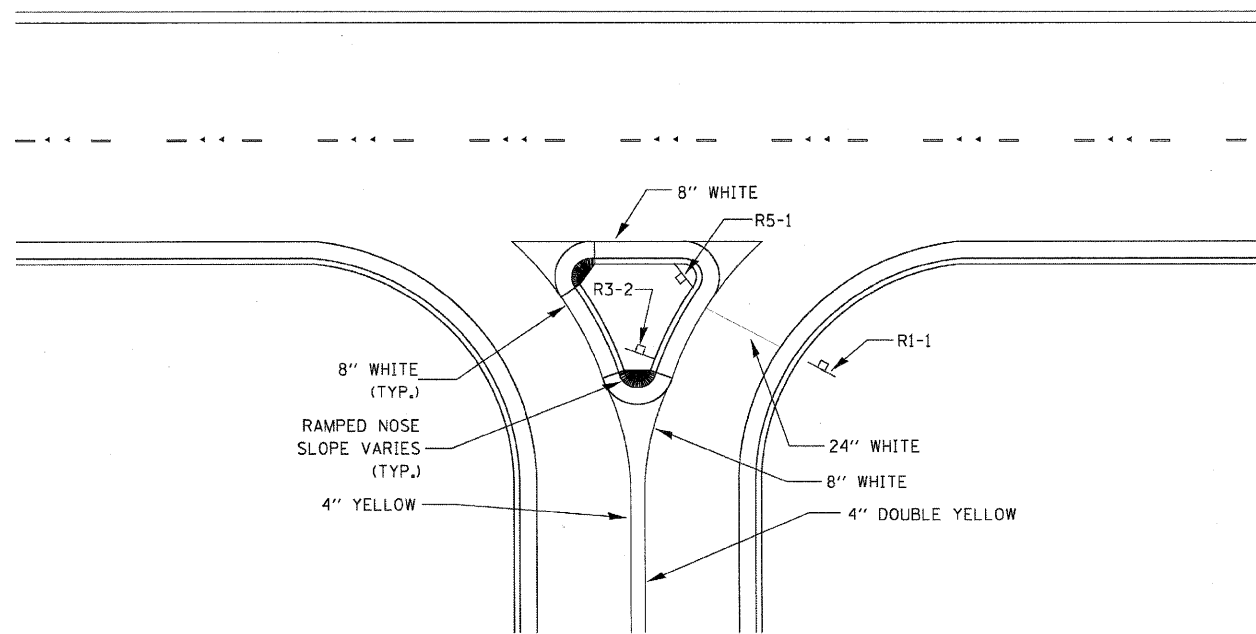
780-1



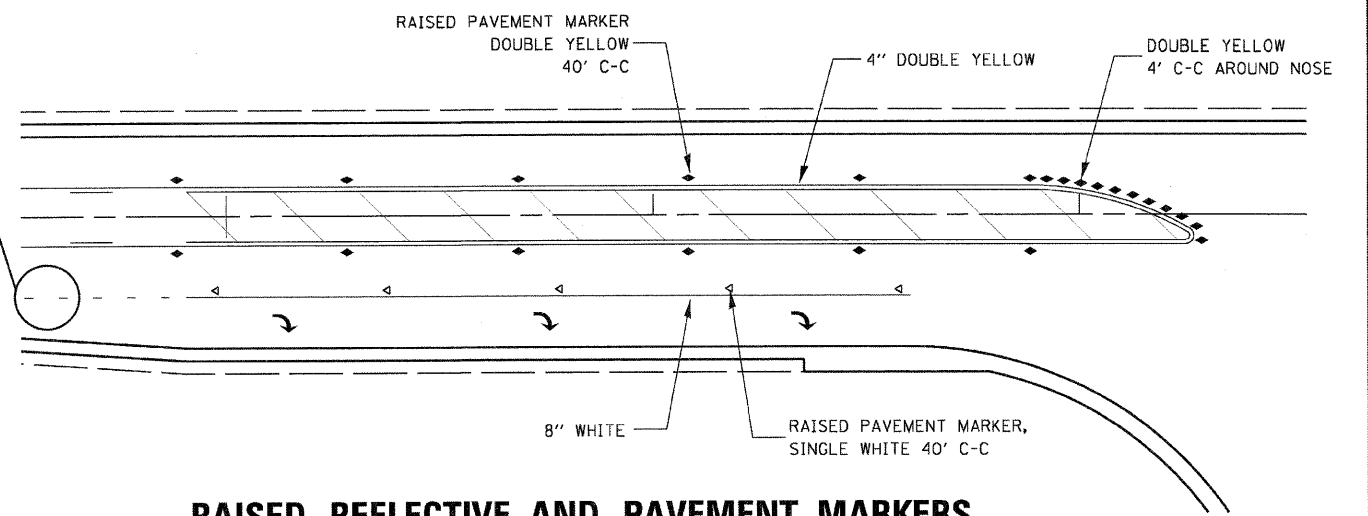
**ADVANCE AND INTERSECTION LANE
DIVIDER LINES**

780-5

URBAN PAVEMENT MARKING



RIGHT IN RIGHT OUT ACCESS PAVEMENT MARKING 780-16



**RAISED REFLECTIVE AND PAVEMENT MARKERS
@ RIGHT TURN LANE**

781-1

FILE NAME = W:\Projects\2011\200854_Berthelg\Lead\Civil\Drawings\Std\DT-5.dgn

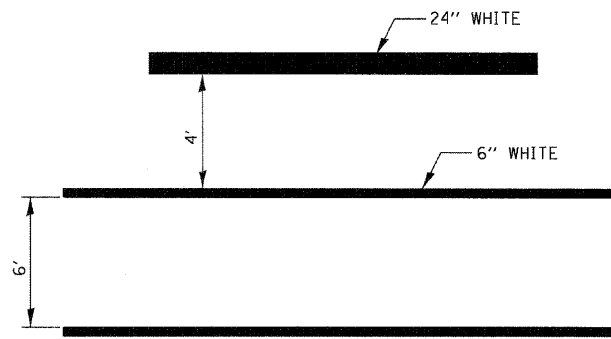
WBK
WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174

USER NAME = nporris	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 7/6/2011	CHECKED -	REVISED -
	DATE - 7/8/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

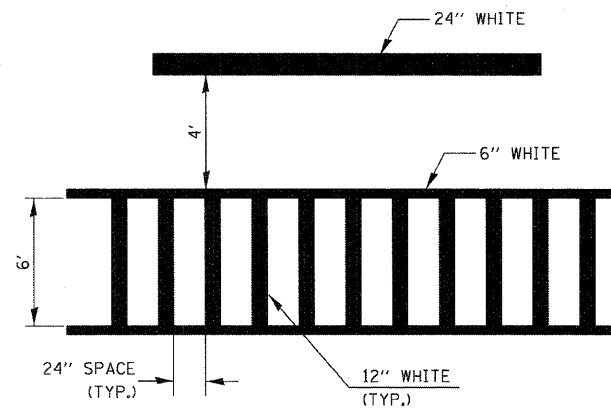
DISTRICT 3 STANDARD DETAILS	
SCALE:	TO STA.
SHEET NO. 73 OF 88 SHEETS	STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	73
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 [ILLINOIS] FED. AID PROJECT				



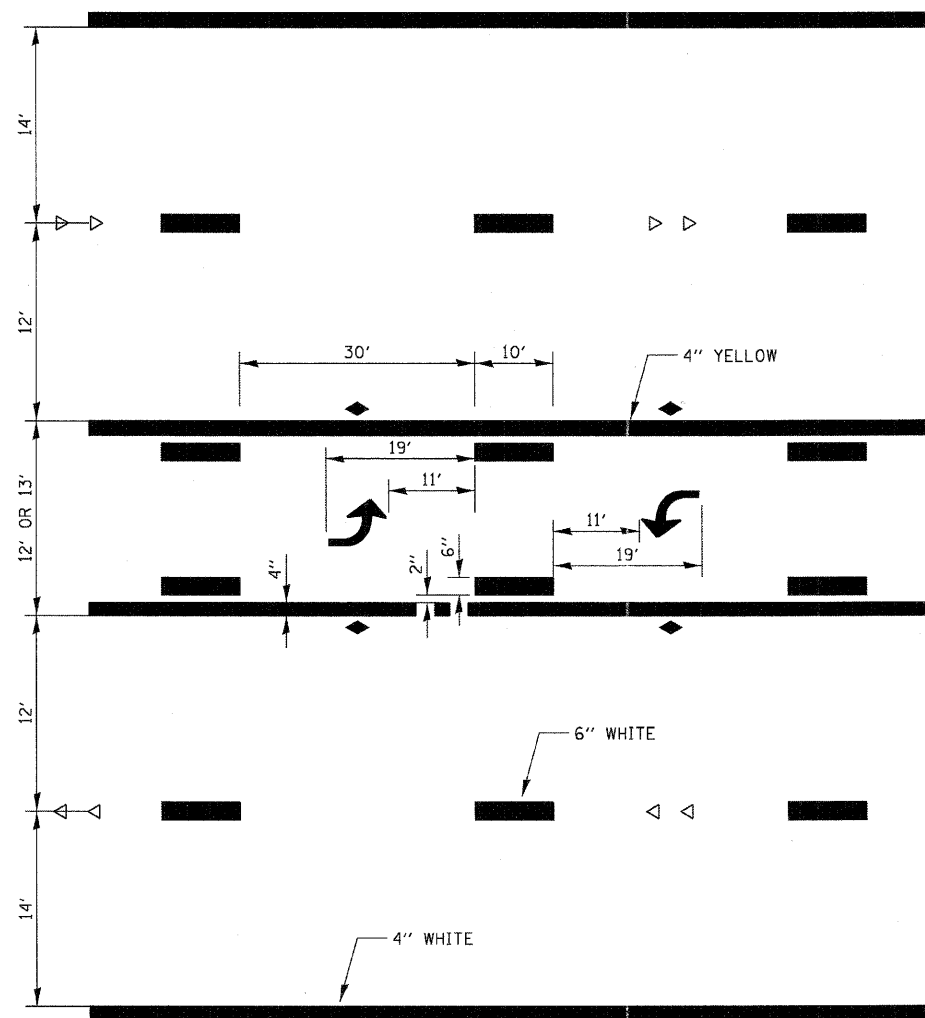
**TYPICAL SPACING DETAIL FOR
CROSSWALKS AND STOP BARS**

**780-3
OPTION 1**

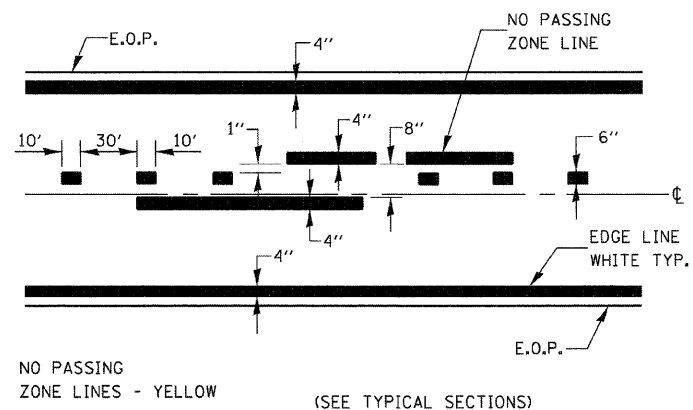


**TYPICAL SPACING DETAIL FOR
CROSSWALKS AND STOP BARS**

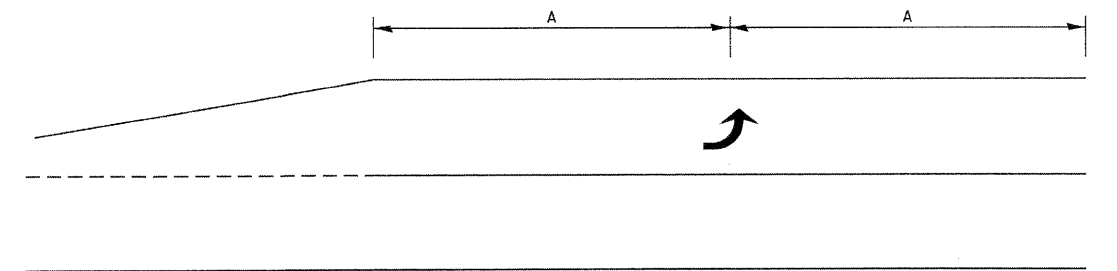
**780-3
OPTION 2**



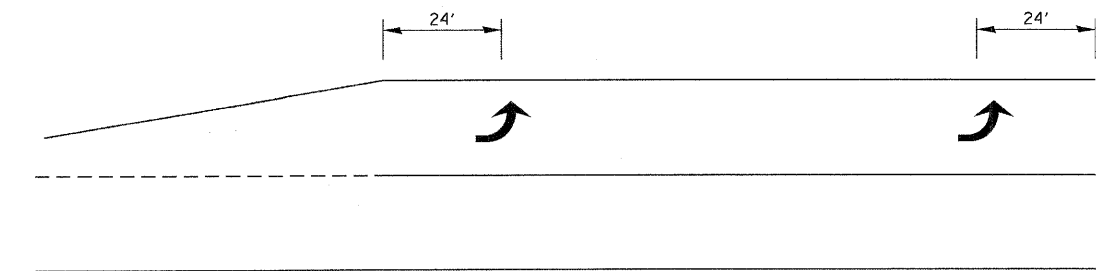
**TYPICAL APPLICATION @
TWO WAY LEFT TURN LANE (TWLTL)**
780-2



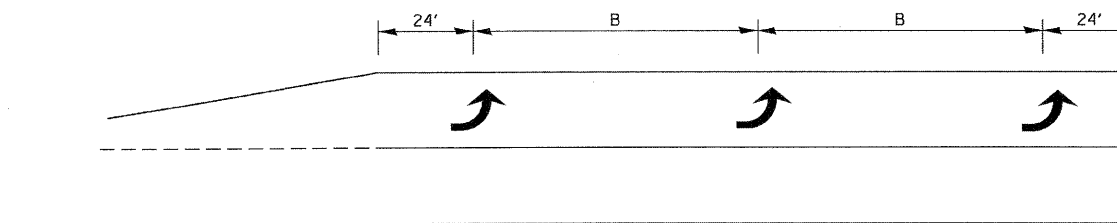
PAVEMENT MARKING 780-8



99' AND UNDER



100' TO 149'



150' AND LONGER

**TYPICAL PLACEMENT OF ARROWS
IN TURN LANES**

780-10

URBAN PAVEMENT MARKING

FILE NAME = W:\Projects\2010\102264 - Bechtel\gpc\cadd\civil\Urban\Std\780-10.dwg

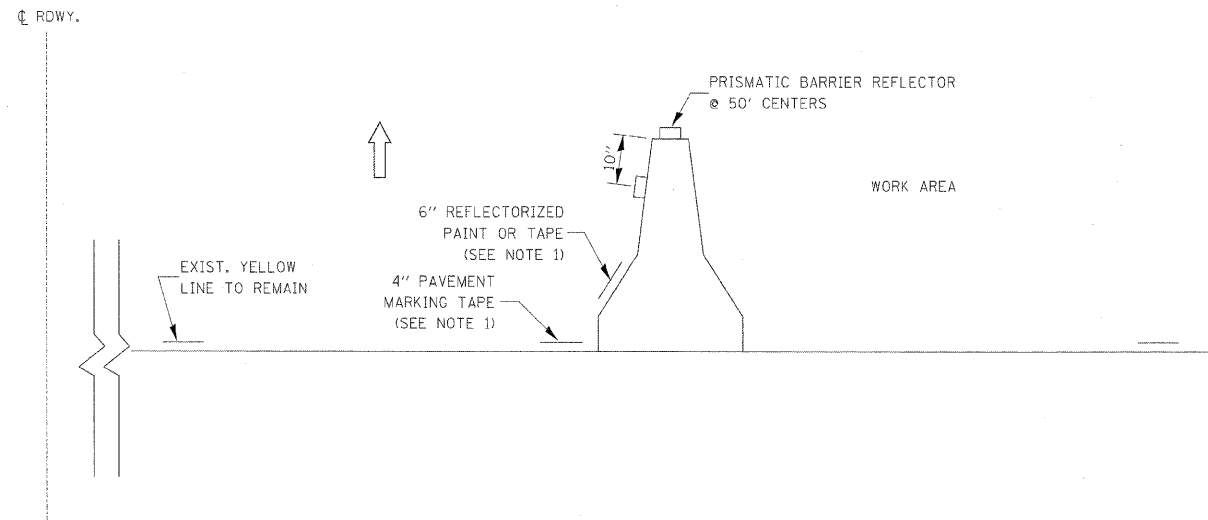
WBK
WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174

USER NAME = nparris	DESIGNED -	REVISD -
PLOT SCALE =	DRAWN -	REVISD -
PLOT DATE = 7/6/2011	CHECKED -	REVISD -
	DATE - 7/8/11	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT 3 STANDARD DETAILS	
SCALE:	SHEET NO. 74 OF 88 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	74
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

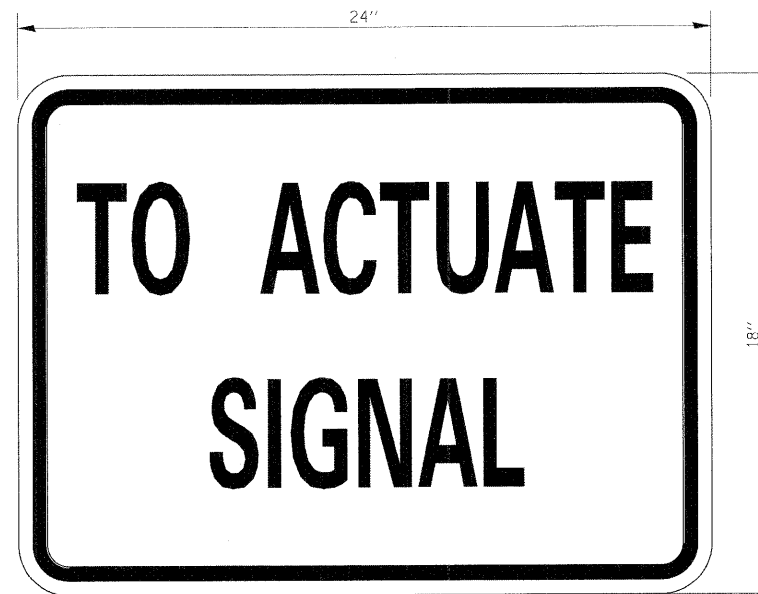


NOTES:

DESIGNER NOTES:
 TO BE USED WITH STANDARD 701401.
 IF ALSO USING TEMPORARY
 CONCRETE BARRIER

1. THE CONTRACTOR HAS THE OPTION OF USING EITHER THE LINE ON THE TEMPORARY CONCRETE BARRIER OR ON THE PAVEMENT.
2. THE COLOR OF THE REFLECTORS AND PAVEMENT/BARRIER MARKING LINE WILL VARY WITH STAGING AND SHALL MATCH THE EXISTING LINE IN THE WORK AREA.
3. THE COST OF THE REFLECTORS AND THE PAVEMENT/BARRIER MARKING LINE IS INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER.

701-3



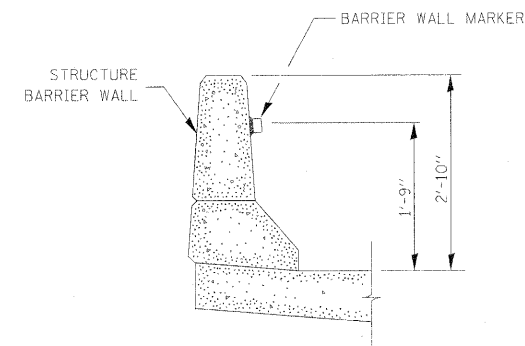
SIZE: 24" x 18"
 4" CAPITAL LETTERS - BLACK
 1/2" BORDER - BLACK
 WHITE REFLECTIVE - TYPE B
 ENGINEERING GRADE SHEETING

GENERAL NOTE:

THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY THE ENGINEER.

720-4

STOP LINE SIGN FOR TEMPORARY SIGNALS



782-4

BARRIER WALL MARKER

FILE NAME: \\N:\Projects\2010\000054 - Bertram\BP\cadd\Civil\Drawings\Std-7.dgn

WBK WILLIS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174

USER NAME = nporris	DESIGNED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 7/6/2011	CHECKED -	REVISED -
	DATE - 7/8/11	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

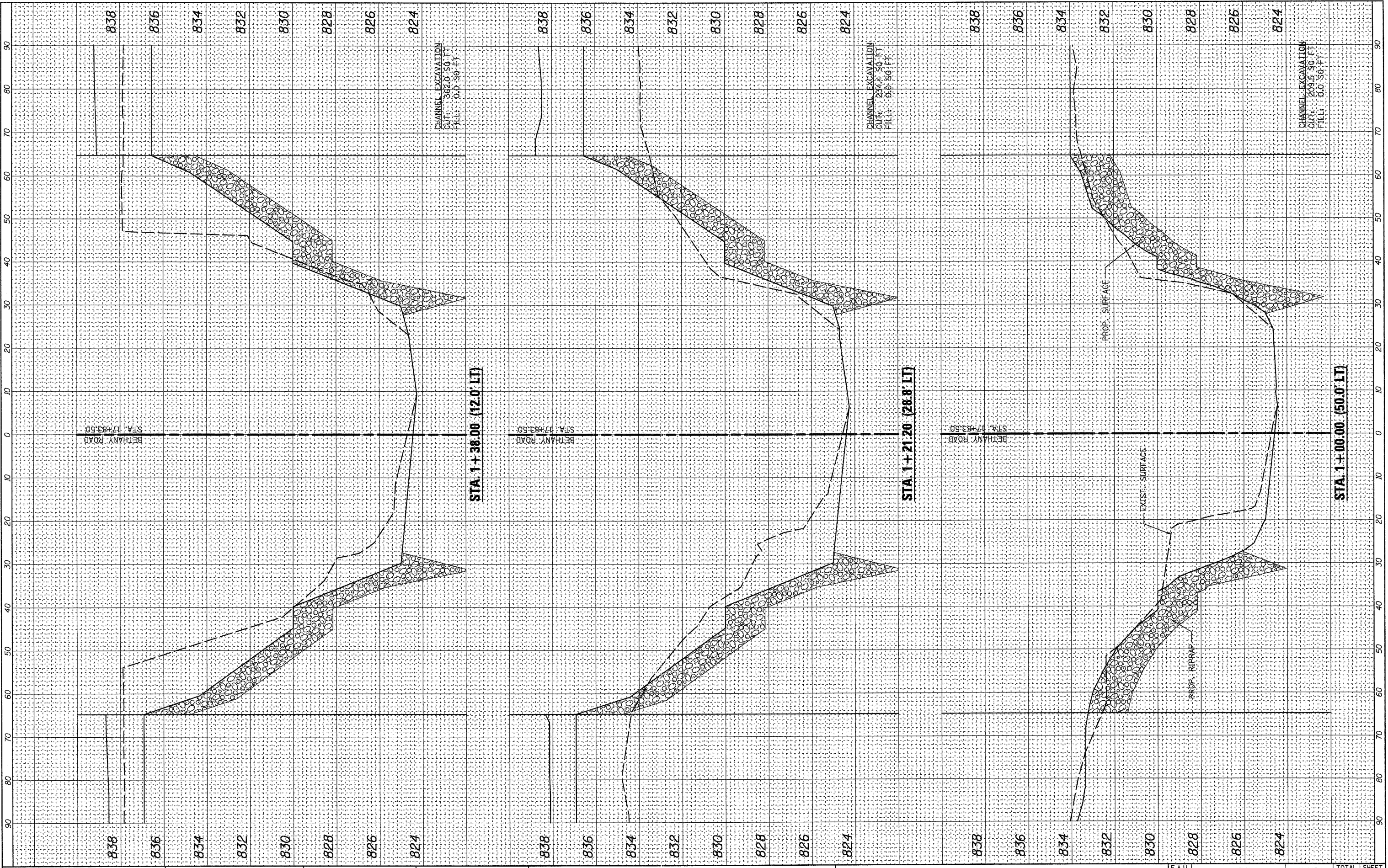
DISTRICT 3 STANDARD DETAILS	
SCALE:	SHEET NO. 75 OF 88 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	75
FED. ROAD DIST. NO. 3 [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 87491	

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

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

FILE NAME = \\F:\Projects\2010\102054 - Bethany Rd\Civil\Drawings\Sheet\Channel.dgn



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116 West Main Street, Suite 201
St. Charles, Illinois 60174

USER NAME = rparrris
PLOT SCALE =
PLOT DATE = 7/6/2011

DESIGNED - DPB
DRAWN - NDP
CHECKED - SBP
DATE - 7/8/11

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

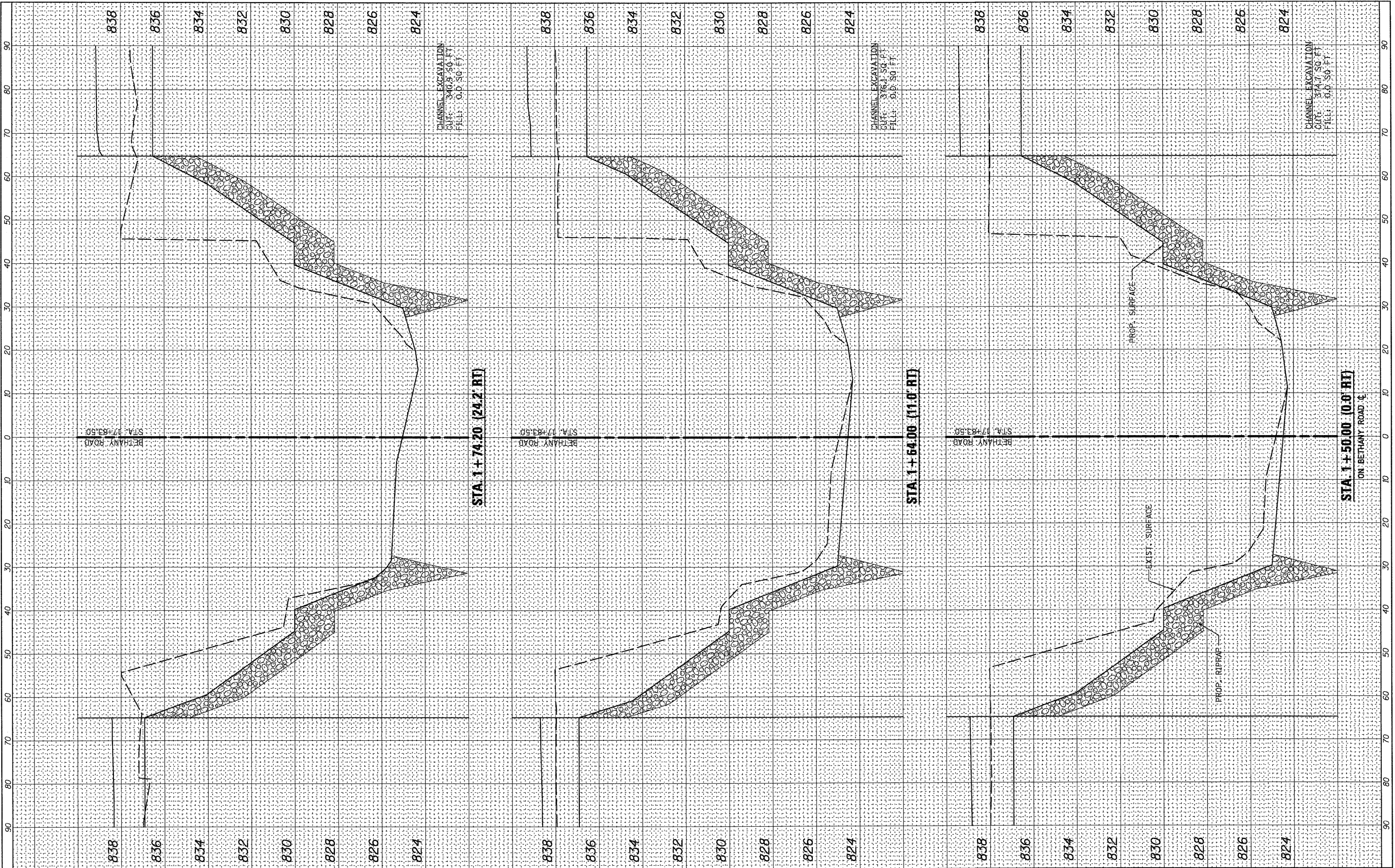
**CROSS SECTIONS
CHANNEL EXCAVATION**
SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	76
FED. ROAD DIST. NO. 3 (ILLINOIS) FED. AID PROJECT				
CONTRACT NO. 87491				

FINAL SURVEY	DATE
ORIG. SURVEY	BY
NOTE BOOK	
NO.	
AREAS CHECKED	
AREAS CHECKED	

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

FILE NAME = M:\Projects\2010\100054 BethanyRoad\Civil\Drawings\SSHT_Channel.dgn



WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174

USER NAME = nparr1s
PLOT SCALE =
PLOT DATE = 7/6/2011

DESIGNED - DPB	REVISED -
DRAWN - NDP	REVISED -
CHECKED - SBP	REVISED -
DATE - 7/8/11	REVISED -

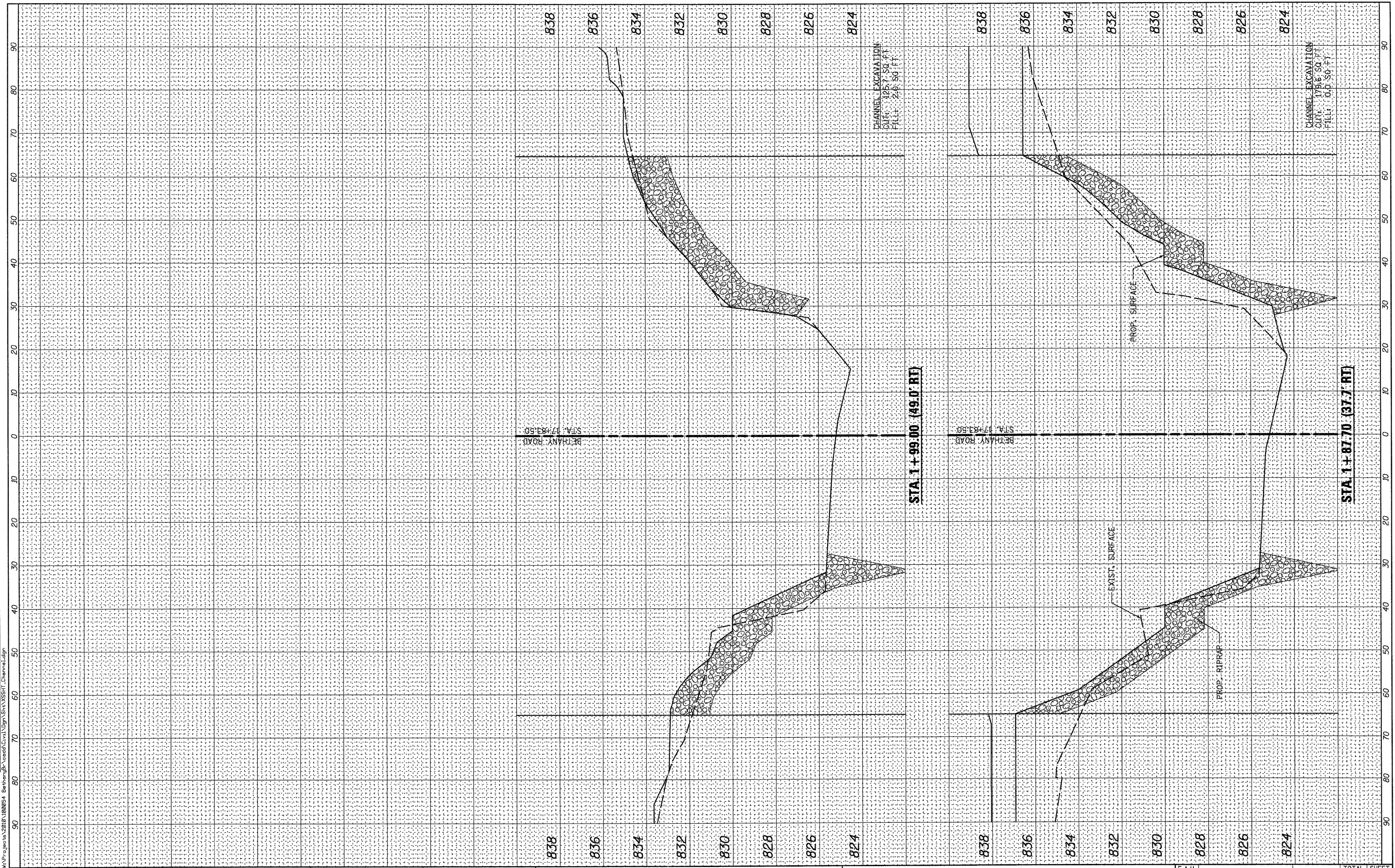
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS CHANNEL EXCAVATION		
SCALE:	SHEET NO. 2 OF 3 SHEETS	STA. TO STA.

F.A.U. RTE. 5355	SECTION 04-00167-00-BR	COUNTY DEKALB	TOTAL SHEETS 88	SHEET NO. 77
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 87491				

FINAL SURVEY NO.	DATE
REVISIONS	BY
PLOTTED	
TEMPLATE	
AREAS CHECKED	

ORIGINAL SURVEY NO.	DATE
REVISIONS	BY
PLOTTED	
TEMPLATE	
AREAS CHECKED	



FILE NAME = W:\Projects\2010\1108054 - Bethany Rd\Civil\Sign\Sheet\Channel.dgn

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 116 West Main Street, Suite 201
 St. Charles, Illinois 60174

USER NAME = nparris	DESIGNED - DPB	REVISED -
PLOT SCALE =	DRAWN - NDP	REVISED -
PLOT DATE = 7/6/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

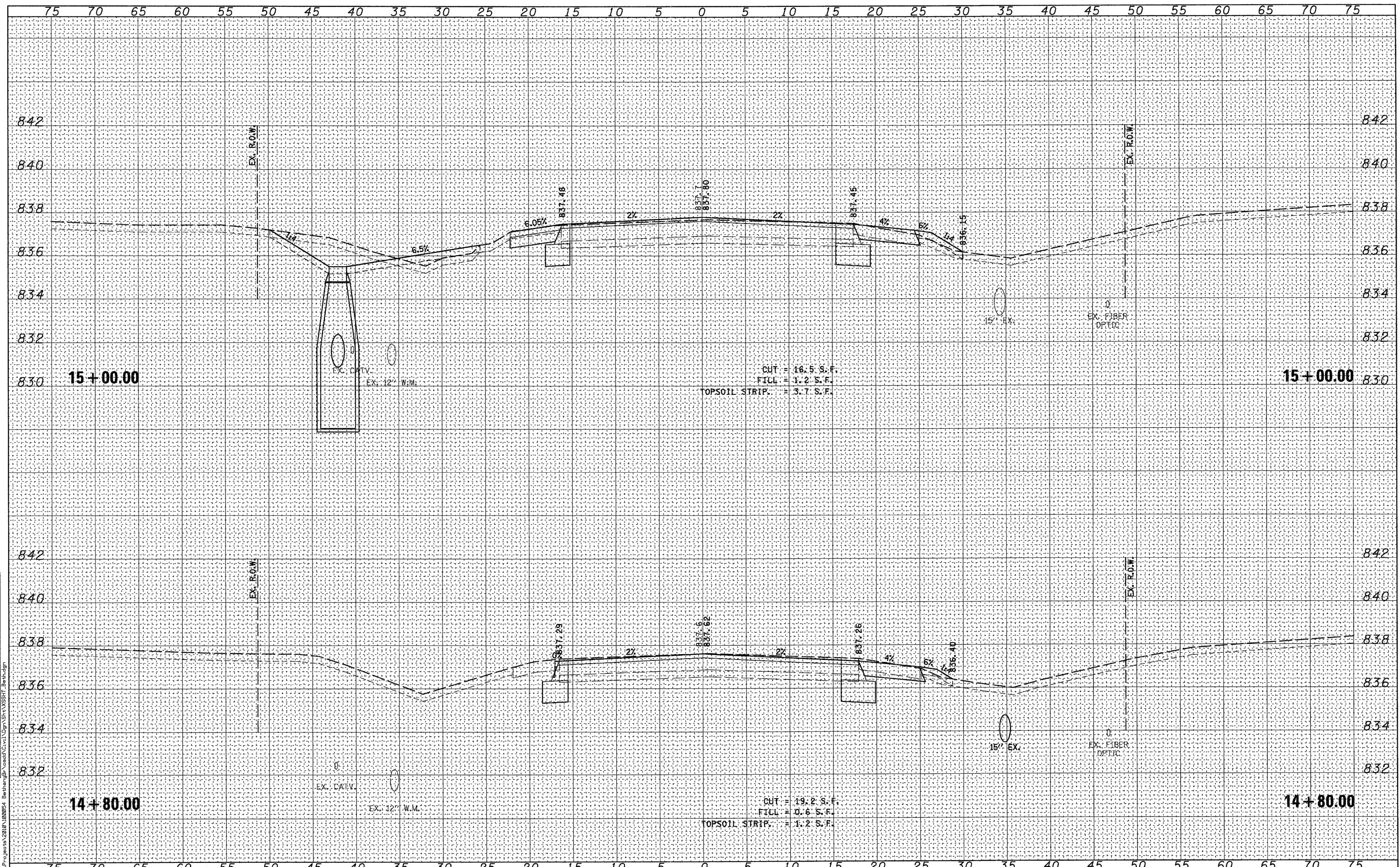
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS CHANNEL EXCAVATION	
SCALE:	STA. TO STA.
SHEET NO. 3	OF 3 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	78
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

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

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



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 115 West Main Street, Suite 201
 St. Charles, Illinois 60174
 (630) 443-7755

USER NAME = #USER#	DESIGNED - DPB	REVISED -
PLOT SCALE =	DRAWN - KMA/NDP	REVISED -
PLOT DATE = 7/8/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

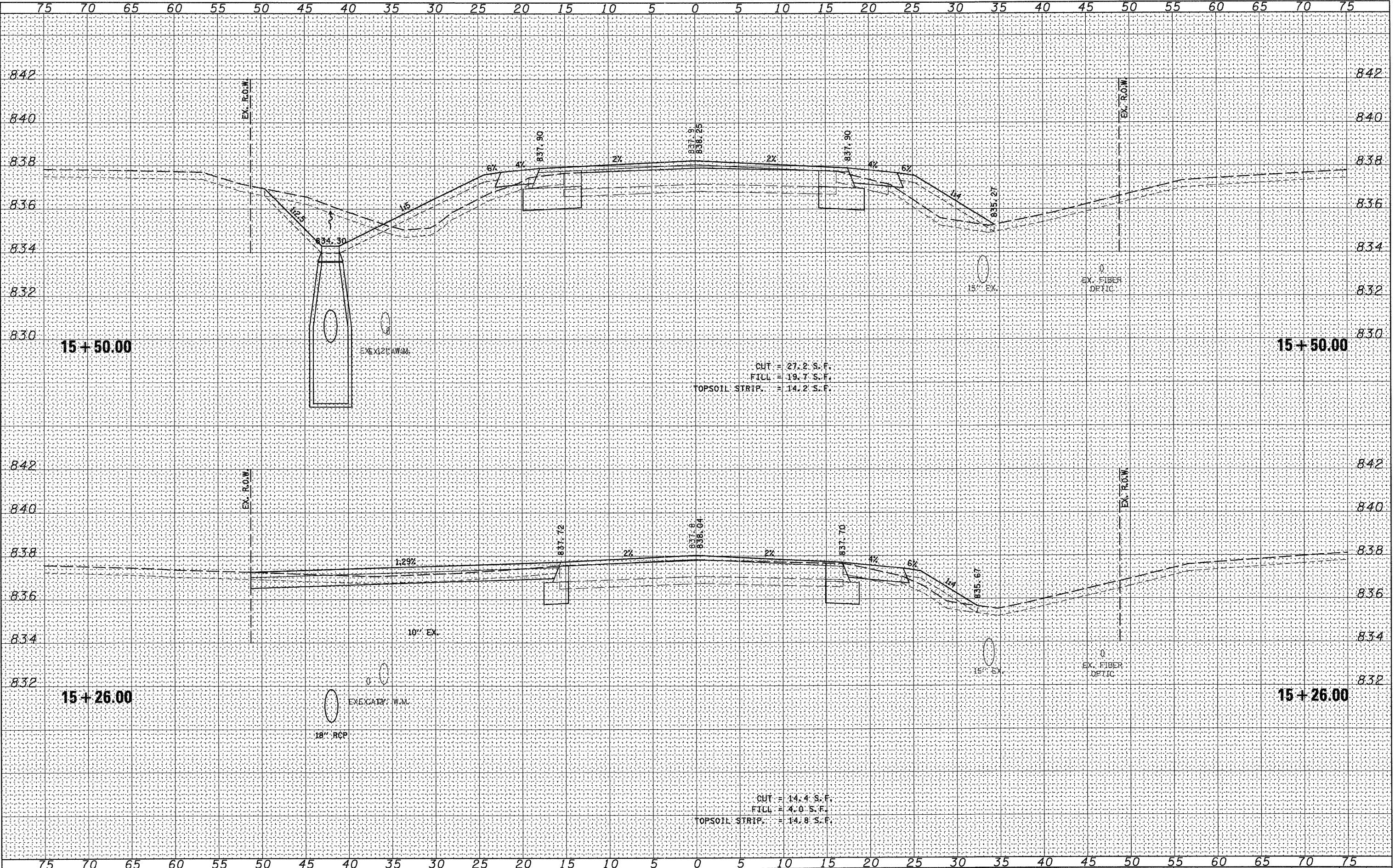
CROSS SECTIONS	
BETHANY ROAD	
SCALE:	SHEET NO. 1 OF 10 SHEETS
STA. 14+80.00 TO STA. 15+00.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	79
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				CONTRACT NO. 87491

DATE	
BY	
NO.	
FINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
NO.	
ORIGINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

FILE NAME = W:\Projects\2011\100054 Bethany Rd\Civil\100054\100054.dwg
 USER = jk
 PLOT DATE = 7/8/2011



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 115 West Main Street, Suite 201
 St. Charles, Illinois 60174
 (630) 443-7755

USER NAME = #USER#
PLOT SCALE =
PLOT DATE = 7/8/2011

DESIGNED - DPB	REVISED -
DRAWN - KMA/NDP	REVISED -
CHECKED - SBP	REVISED -
DATE - 7/8/11	REVISED -

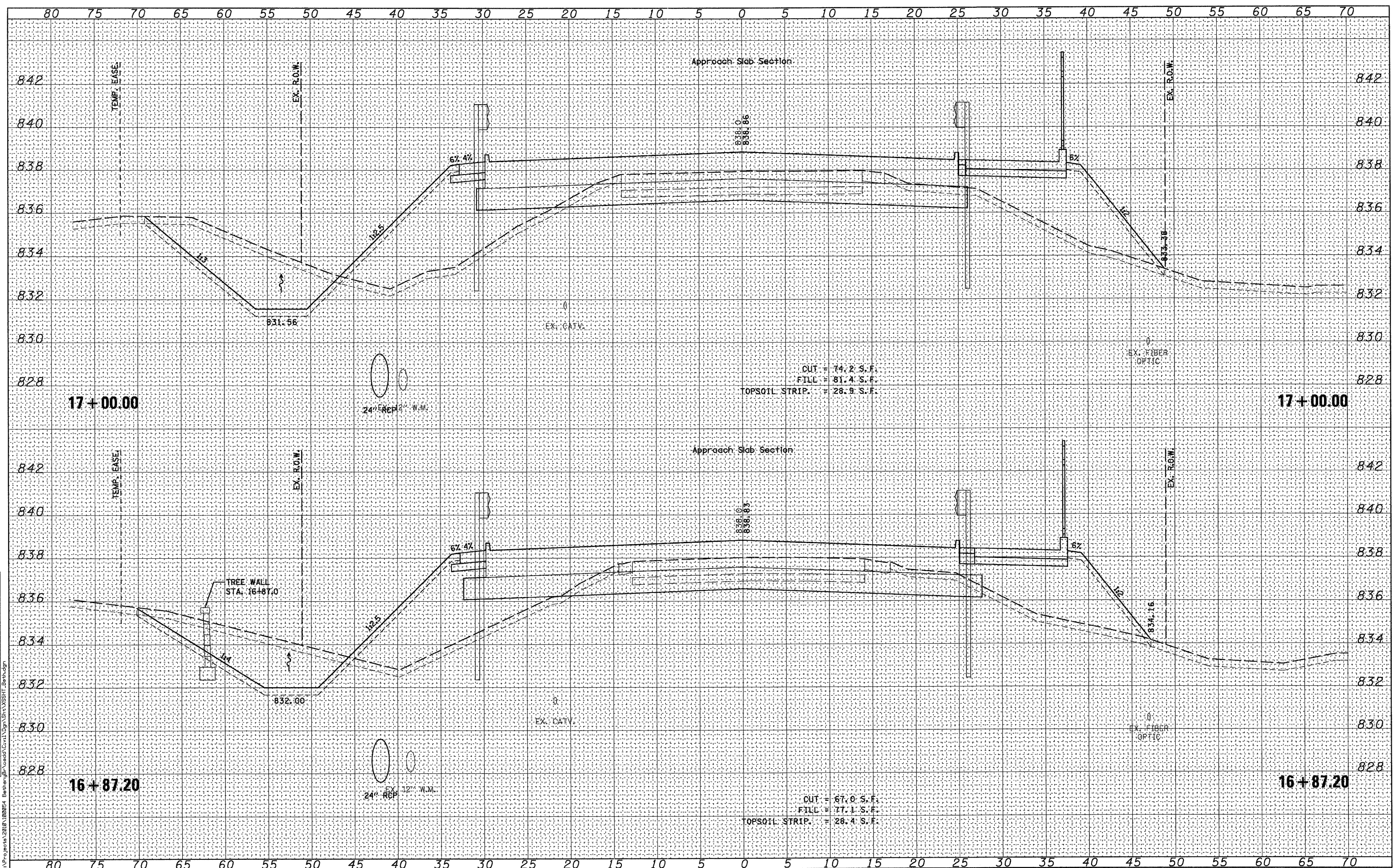
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS BETHANY ROAD	
SCALE:	SHEET NO. 2 OF 10 SHEETS
STA. 15+26.00 TO STA. 15+50.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	80
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
NOTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	



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 118 West Main Street, Suite 201
 St. Charles, Illinois 61074
 (630) 443-7755

USER NAME = *USER*
 PLOT SCALE =
 PLOT DATE = 7/8/2011

DESIGNED - DPB
 DRAWN - KMA/NDP
 CHECKED - SBP
 DATE - 7/8/11

REVISED -
 REVISED -
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 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 BETHANY ROAD**

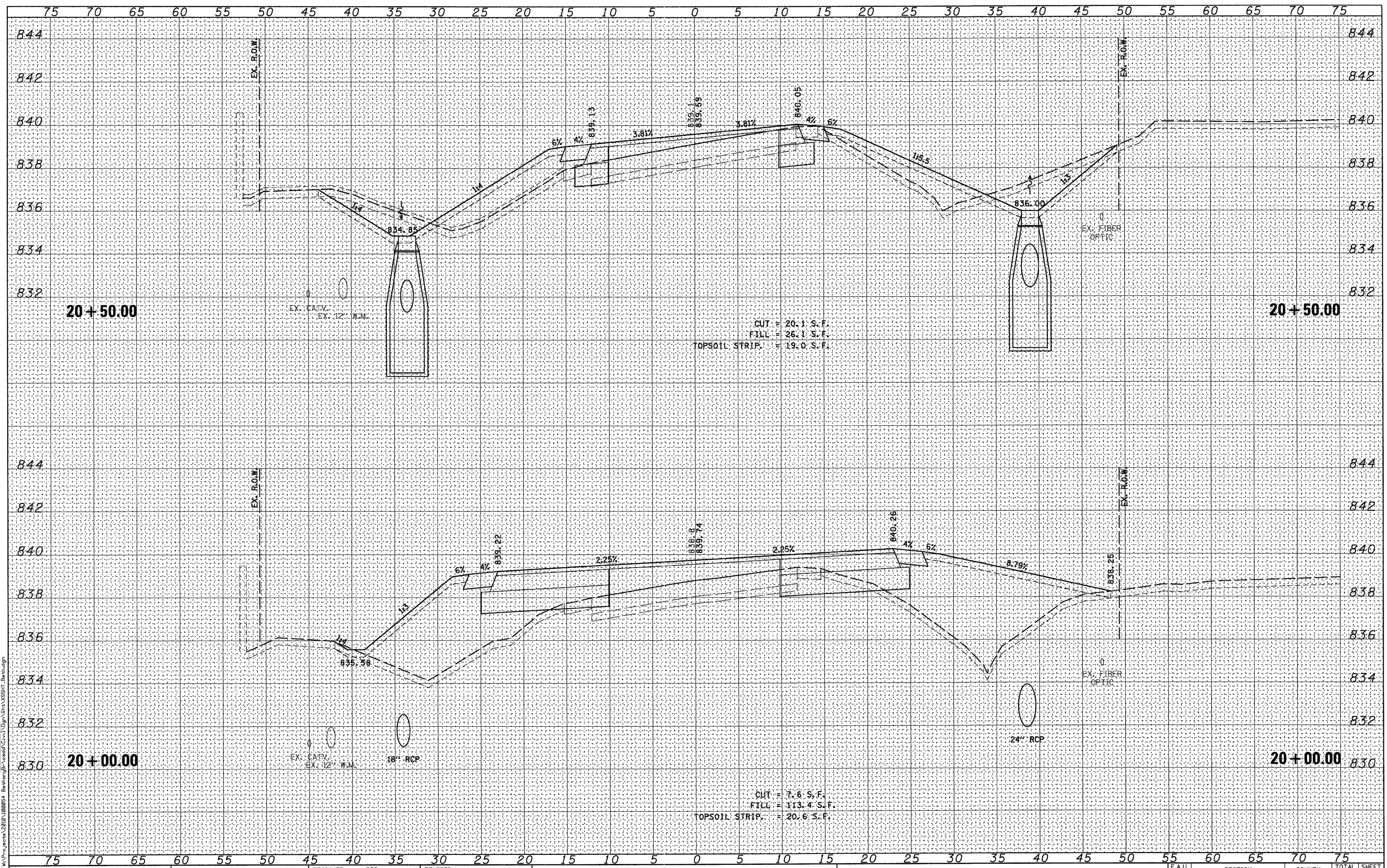
SCALE: SHEET NO. 4 OF 10 SHEETS STA. 16+87.20 TO STA. 17+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	82
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 (ILLINOIS) FED. AID PROJECT				

FILE NAME = W:\Projects\2010\160254 - Bethany Rd\Drawings\160254\160254_S17_Cross_Sect.dwg

DATE	
BY	
FINAL SURVEY	
NOTED SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTED SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	
AREAS CHECKED	



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 St. Charles, Illinois 60174
 (630) 443-7755

USER NAME = #USER#
 PLOT SCALE =
 PLOT DATE = 7/6/2011

DESIGNED - DPB
 DRAWN - KMA/NDP
 CHECKED - SBP
 DATE - 7/8/11

REVISED -
 REVISED -
 REVISED -
 REVISED -

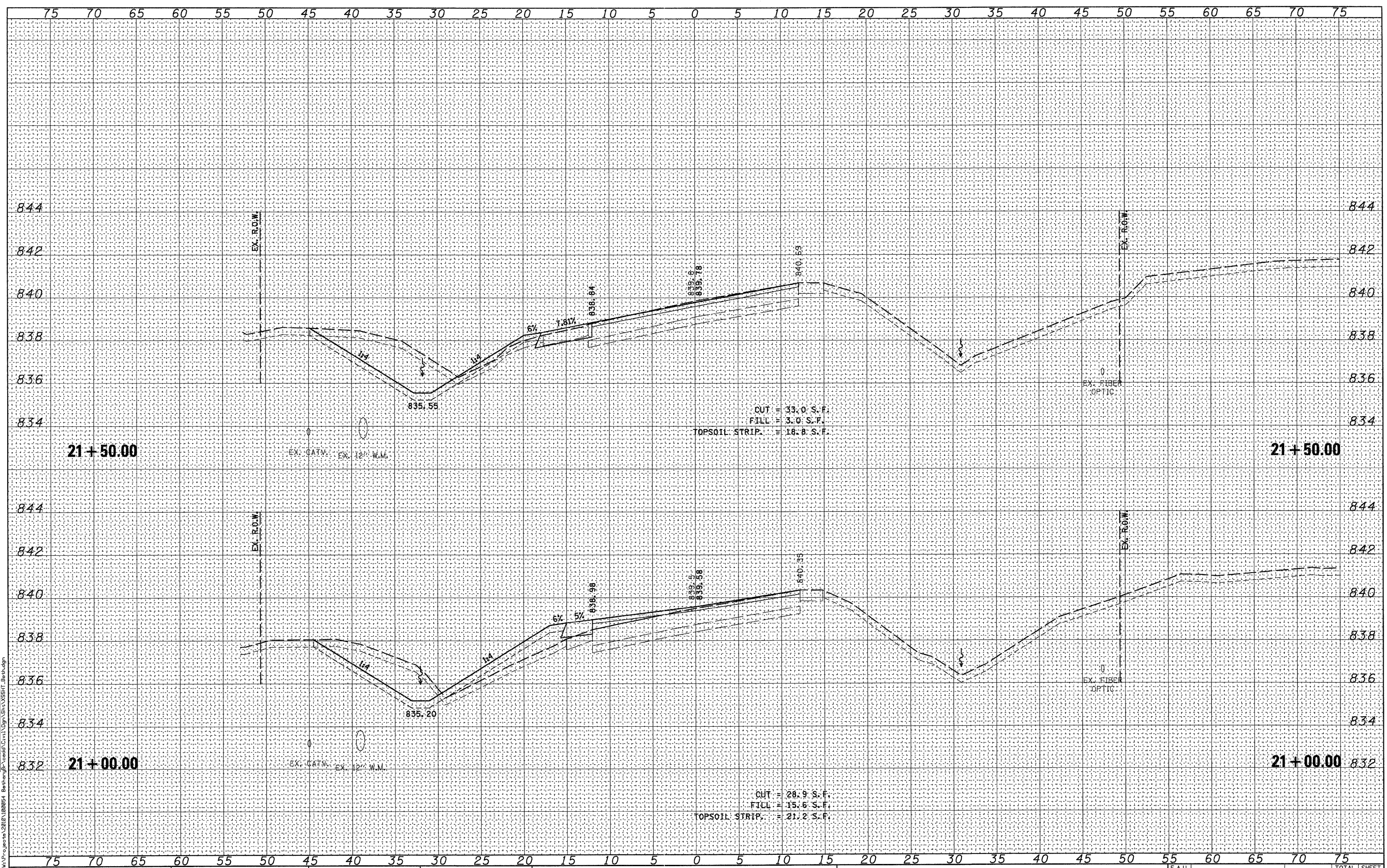
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 BETHANY ROAD
 SCALE: SHEET NO. 8 OF 10 SHEETS STA. 20+00.00 TO STA. 20+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	86
CONTRACT NO. 87491				
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

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

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



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 St. Charles, Illinois 60174
 (630) 443-7755

USER NAME = #USER#	DESIGNED - DPB	REVISED -
PLLOT SCALE =	DRAWN - KMA/NDP	REVISED -
PLLOT DATE = 7/6/2011	CHECKED - SBP	REVISED -
	DATE - 7/8/11	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

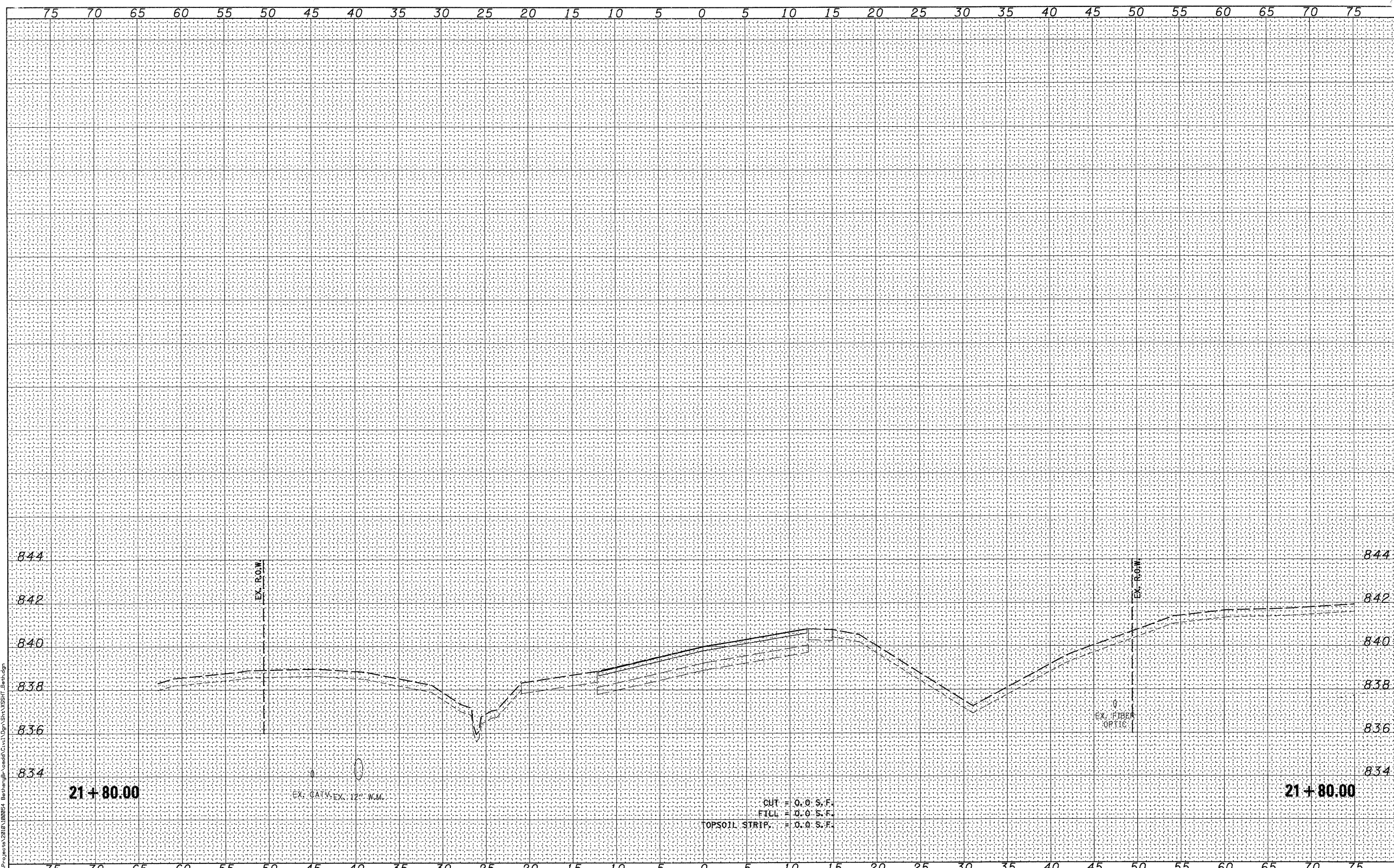
CROSS SECTIONS	
BETHANY ROAD	
SCALE:	SHEET NO. 9 OF 10 SHEETS
STA. 21+00.00 TO STA. 21+50.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	87
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

CONTRACT NO. 87491

DATE	
BY	
FINISHED SURVEY	
NOTED SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTED SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	



FILE NAME = W:\Projects\2010\00054 Bethany Rd\Drawings\Sheet\WBK_VSHTF_Bethany.dwg

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 116 West Main Street, Suite 201
 St. Charles, Illinois 60174
 (630) 443-7755

USER NAME = #USER#
PLOT SCALE =
PLOT DATE = 7/6/2011

DESIGNED - DPB	REVISED -
DRAWN - KMA/NDP	REVISED -
CHECKED - SBP	REVISED -
DATE - 7/8/11	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS BETHANY ROAD	
SCALE:	SHEET NO. 10 OF 10 SHEETS
STA. 21+80.00 TO STA. 21+80.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5355	04-00167-00-BR	DEKALB	88	88
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				

CONTRACT NO. 87491