

04-24-2015 LETTING ITEM 171

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 86	SHEET NO. 1
ILLINOIS		CONTRACT NO. 61B08		

FOR INDEX OF SHEETS, SEE SHEET NO. 2

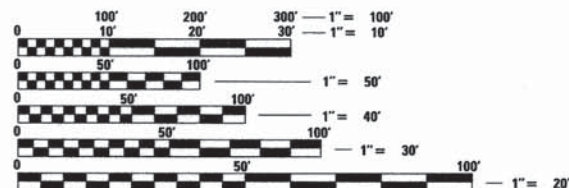
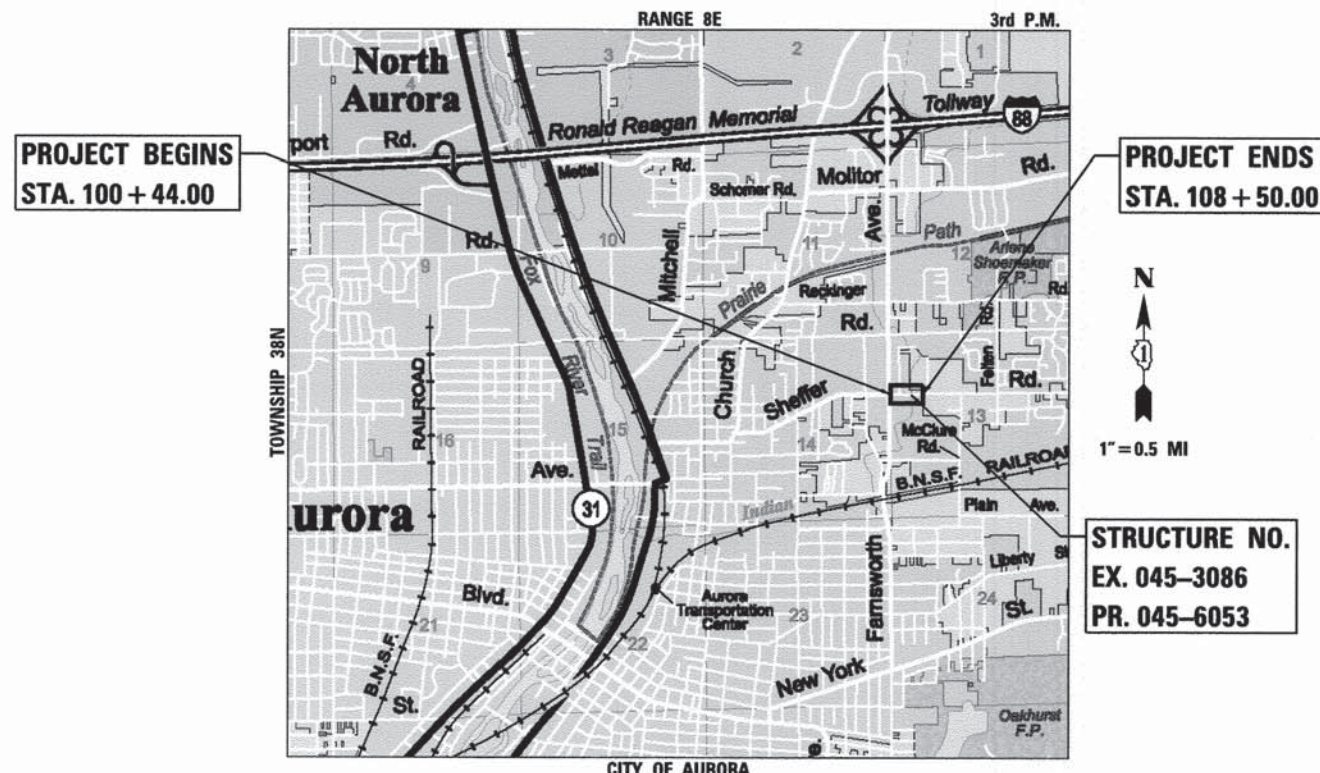
PROJECT LOCATED:
CITY OF AURORA (WEST LIMITS, INCLUDING BRIDGE)
AURORA TOWNSHIP (EAST OF THE BRIDGE)

TRAFFIC DATA
2010 ADT = 1,100
2040 ADT = 7,000

DESIGN/POSTED SPEED
POSTED SPEED: 30 MPH
DESIGN SPEED: 35 MPH

DESIGN DESIGNATION
MINOR COLLECTOR (URBAN)

**F.A.U. 2421 (SHEFFER ROAD)
OVER INDIAN CREEK
BRIDGE REPLACEMENT
SECTION 11-00298-00-BR
PROJECT BRM-9003(992)
CITY OF AURORA
KANE COUNTY
JOB NO. C-91-252-12**



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

CITY OF AURORA
PROJECT NET AND GROSS LENGTH = 806 FT (0.153 MILE)
PROJECT LOCATED IN:
PARTS OF NW ¼ OF SECTION 13 IN TOWNSHIP 38N, RANGE 8E,
OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, ILLINOIS

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED DEC. 8, 2014
Chris E. Leist
CITY OF AURORA

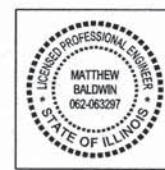
PASSED DECEMBER 31, 2014
C. Helt CHRISTOPHER HOLT
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW
January 1, 2015
John Fortman
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

FEDERAL AID PROGRAM ENGINEER: FAWAD AQUEEL, P.E. (847) 705-4021 SCHAUMBURG, IL



December 3, 2014
David Smoot
DAVID L. SMOOT
ILLINOIS REG. PROFESSIONAL ENGINEER NO. 081-005861
EXPIRATION DATE 11-30-2016
SHEETS 43-60



December 12, 2014
Matthew Baldwin
MATTHEW N. BALDWIN
ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-003297
EXPIRATION DATE 11-30-2015
SHEETS 1-42, 61-85

CONTRACT NO. 61B08

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

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HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
406201-01	MAILBOX TURNOUT
420401-11	BRIDGE APPROACH PAVEMENT CONNECTOR
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601001-04	SUB-SURFACE DRAINS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
602001-02	CATCH BASIN, TYPE A
602301-04	INLET, TYPE A
602401-03	MANHOLE, TYPE A
602406-06	MANHOLE, TYPE A, 6' DIAMETER
602601-03	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS, TYPE 1
604011-05	FRAME AND GRATE, TYPE 3V
604036-03	GRATE, TYPE 8
604046-03	FRAME AND GRATE, TYPE 10
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-10	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
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
701006-05	OFF-RD OPERATION 2L, 2W, 4.5 M 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701427-03	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS <= 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

DISTRICT STANDARDS

STANDARD NO.	DESCRIPTION
BD-01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND CURB OR EDGE GREATER THAN OR EQUAL TO 15'
BD-32	BUTT JOINTS AND HMA TAPER
BD-36	FIRE HYDRANT TO BE MOVED
BD-51	BENCHING DETAIL FOR EMBANKMENT WIDENING
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TS-05b	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-07	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

FILE NAME = M:\Projects\2013\130179_Sheffer\PH\Coord\Civil\09n\Sh\INDEX_01.dgn



USER NAME = nparris	DESIGNED = MNB	REVISED =
	DRAWN = NDP	REVISED =
PLOT SCALE = 1:20	CHECKED = SBP	REVISED =
PLOT DATE = 12/15/2014	DATE = 12/15/2014	REVISED =

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS & STANDARDS

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	2
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE APPLICABLE REQUIREMENTS SET FORTH IN "THE CONSTRUCTION SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012 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, MATERIAL YARD OR FIELD OFFICE SHALL BE SET UP OR STORED ON CITY, TOWNSHIP 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 DEFICIENCY DEDUCTION; TRAFFIC CONTROL DEFICIENCY WILL APPLY FOR THIS PROJECT. THE DEDUCTION WILL BE AS REQUIRED IN ARTICLE 105.03 OF THE STANDARD SPECIFICATIONS EXCEPT THE AMOUNT OF DEDUCTION WILL BE AS MODIFIED BY BDE SPECIAL PROVISIONS.
- 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.

DRAINAGE NOTES

- 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 SEPARATELY FOR PAYMENT, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION.
- THE COST OF RESHAPING PROPOSED AND EXISTING DITCHES (IF REQUIRED) SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT

- THE CONTRACTOR AND ENGINEER SHALL MEET WITH THE KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT TO COORDINATE ALL IN-STREAM WORK ACTIVITIES.
- THE CONTRACTOR'S IN-STREAM WORK PLAN SHALL BE SUBMITTED TO THE SOIL & WATER CONSERVATION DISTRICT AND KANE COUNTY FOR REVIEW AND APPROVAL PRIOR TO STARTING ANY WORK. THERE WILL NO ADDITIONAL COMPENSATION FOR PROVIDING THE COORDINATION AND WORK PLAN.
- SEE EROSION CONTROL PLAN SHEETS FOR ADDITIONAL DETAILS, CONDITIONS AND NOTES.

TREES AND SHRUBS

- THE CONTRACTOR SHALL REMOVE ONLY THOSE TREES AND SHRUBS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, OR THOSE, WHICH DIRECTLY INTERFERE WITH THE SAFETY OR QUALITY OF CONSTRUCTION PRACTICES. THE CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN WORKING NEAR EXISTING TREES AND SHRUBS TO AVOID DAMAGING THOSE NOT SCHEDULED FOR REMOVAL AND SHALL REPLACE IN-KIND ANY DAMAGED PLANTS AT HIS OWN EXPENSE.
- THE AREA TO BE PLANTED SHALL BE FINISHED TO LINE AND GRADE BEFORE PLANTING OPERATIONS ARE BEGUN. THE CONTRACTOR SHALL FURNISH ALL MARKING FLAGS (OR OTHER APPROVED MARKING APPROVED BY THE ENGINEER) FOR LOCATING SEED AREAS, PLANTINGS (I.E. SHRUBS, TREES) AND FIXED LANDSCAPE FEATURES. FLAGGING FOR PLANTINGS SHALL BE MARKED WITH THE COMMON NAME OF PLANTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL LANDSCAPING AND THE OUTLINING OF EACH AREA FOR MASS OR INDIVIDUAL PLANTING. THE ENGINEER WILL APPROVE THE LAYOUT OF ALL LANDSCAPING. WHERE SEEDLINGS ARE TO BE PLANTED THE PLANTING AREAS SHALL BE STEEL POSTS AS DESCRIBED IN ARTICLE 1081.13 AND DETAILED IN THE PLANS. LAYOUT FOR PLANTINGS AND OTHER LANDSCAPE FEATURES WILL NOT BE MEASURED SEPARATELY FOR PAYMENT, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF CONSTRUCTION LAYOUT.

EARTHWORK AND ROADWAY

- 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.
- ALL AGGREGATE AND BITUMINOUS BASE COURSES SHALL BE PRIMED. THIS WORK SHALL CONFORM TO THE APPROPRIATE ARTICLES OF SECTION 406 OF THE STANDARD SPECIFICATIONS. THE PRIME COAT FOR AGGREGATE SURFACES SHALL BE MC-30 APPLIED AT A RATE OF 0.25 LBS/SO FT AND SS-1 APPLIED AT THE RATE OF 0.05 LBS/SO FT FOR HMA BASES. THIS ITEM WILL BE PAID FOR SEPARATELY AS BITUMINOUS MATERIALS (PRIME COAT).
- GEOTECHNICAL FABRIC FOR GROUND STABILIZATION; ITEM NO. 21001000 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 AGGREGATE SUBGRADE IMPROVEMENT. 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 6 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.

REMOVAL NOTES

- MAILBOXES; THE WORK REQUIRED FOR THE REMOVAL AND REPLACEMENT OF PERMANENT MAILBOXES IS SPECIFIED IN THE STANDARD SPECIFICATIONS ARTICLE 107.20. MAILBOX REMOVAL AND REPLACEMENT WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE PAY ITEM FOR MOBILIZATION.

MAILBOXES ARE ANTICIPATED TO BE TEMPORARILY MOVED BECAUSE OF CONSTRUCTION OPERATIONS. MAILBOXES MAY HAVE TO BE MOVED MORE THAN ONCE. THE CONTRACTOR SHALL TEMPORARILY PLACE AND SUPPORT THE MAILBOX SO THAT IT IS SUITABLE FOR MAIL DELIVERY. MAINTAINING THE MAILBOX DURING CONSTRUCTION WILL BE NOT BE MEASURED SEPARATELY FOR PAYMENT. IF THE EXISTING MAILBOX AND/OR SUPPORT ARE DAMAGED BY THE CONSTRUCTION OPERATIONS, THEY WILL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE PROJECT.
- SAW CUTS; ALL LOCATIONS WHERE A SAW CUT IS REQUIRED FOR THE REMOVAL OF PAVEMENT, CURB, GUTTER, MEDIANS, DRIVEWAYS, SIDEWALK, BUTT JOINTS, PATCHES OR ANY OTHER STRUCTURE WHICH ARE ALL ONE PIECE WITH NO CONSTRUCTION JOINTS. THIS SAW CUT SHALL BE MADE AT THE LIMITS OF CONSTRUCTION OR OTHER AREAS AS REQUIRED TO PERFORM THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE SAW CUT SHALL BE ACCOMPLISHED WITH A "PAVEMENT SAW". VERMEER TYPE TRENCHERS WILL NOT BE ALLOWED FOR FINAL SAW CUT AT THE LIMITS OF CONSTRUCTION. SAW CUTTING SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE UNIT CONTRACT PRICE OF THE RELATED REMOVAL ITEM.
- DEBRIS REMOVAL; IT SHALL BE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND DISPOSE OF ALL MATERIAL AND DEBRIS RESULTING FOR CONSTRUCTION ACTIVITIES OR AS NOTED ON THE PLANS. THE CONSTRUCTION DEBRIS SHALL BE DISPOSED OF OFF SITE AT AN APPROVED FACILITY OR AS DIRECTED BY THE ENGINEER. THE COST OF REMOVAL AND DISPOSAL OF ALL CONSTRUCTION RELATED DEBRIS SHALL BE INCLUDED IN THE COST OF THE RELATED WORK ITEM(S).
- AN HMA BUTT JOINT SHALL BE PLACED AT THE LIMITS OF THE PROJECT IN ACCORDANCE WITH DISTRICT DETAIL BD-32. HOWEVER, THE SURFACE REMOVAL DEPTH SHALL BE 2" TO MATCH THE DEPTH OF THE PROPOSED SURFACE COURSE. THIS ITEM WILL BE PAID FOR AS HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT, AND MEASURED IN SQ YD.

ROADWAY SIGNAGE

THE CONTRACTOR WILL BE REQUIRED TO RELOCATE OR REMOVE AND REPLACE SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS, AND TO TEMPORARILY RESET ALL SUCH SIGNS DURING CONSTRUCTION OPERATIONS, UNLESS THEY ARE WITHIN THE LIMITS OF THE DETOUR CLOSURE. THIS WORK WILL BE INCLUDED IN THE PAY ITEM TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

ROADWAY SIGNAGE DESCRIBED ABOVE DOES NOT APPLY TO ANY SIGNAGE USED FOR CONSTRUCTION OPERATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUPPLYING AND MAINTAINING ALL SIGNS REQUIRED FOR THE MAINTENANCE OF TRAFFIC OF THE VARIOUS STAGES OF CONSTRUCTION AND DETOURS.

OWNER OF RECORD

THE CITY OF AURORA IS THE OWNER OF RECORD FOR THIS BRIDGE. EXISTING BRIDGE PLANS DO NOT EXIST FOR THIS STRUCTURE. LINWORK FOR THE EXISTING BRIDGE IS BASED ON TOPOGRAPHIC SURVEY. ANY EXISTING FOUNDATIONS SHOWN IN THE PLANS WERE DRAWN BASED ON ENGINEERING JUDGEMENT. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING TYPE OF FOUNDATIONS IN THE FIELD.

SURVEY DATUM

THE HORIZONTAL DATUM IS NAD 83 AND THE VERTICAL DATUM IS NAVD 88. THE CITY OF AURORA BENCHMARK WAS USED TO ESTABLISH VERTICAL CONTROL AND IS REFERENCED ON THE ALIGNMENT, TIES & BENCHMARKS SHEET.

DEMOLITION PLAN

INDIAN CREEK IS CONSIDERED WATERS OF THE U.S. OR "PUBLIC WATERS". THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A DEMOLITION PLAN IN ACCORDANCE WITH ARTICLE 501.02 TO THE ENGINEER FOR APPROVAL. PREPARATION OF THE DEMOLITION PLAN WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF THE REMOVAL OF THE EXISTING BRIDGE STRUCTURE.

UTILITY CONTACTS

UTILITY	CONTACT PERSON	NUMBER
CITY OF AURORA	JOB DELGADO	630-256-3710
AT&T LOCAL	BOBBY AKHTER	630-719-1483
COMCAST	THOMAS MUNAR	630-600-6352
COMED	PETER KRATZER	708-518-6209
FOX METRO	ZACHARY BONESZ	630-301-6822
MCI	JIM TODD	708-458-6410
NICOR	CONNIE LANE	630-388-3830

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WILLS BURKE KELSEY ASSOCIATES LTD.
216 West Main Street, Suite 201
St. Charles, Illinois 60114

USER NAME = nparriss	DESIGNED - MNB	REVISED -
	DRAWN - NDP	REVISED -
PLOT SCALE = 1:20	CHECKED - SBP	REVISED -
PLOT DATE = 12/12/2014	DATE - 12/15/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES			
SCALE:	SHEET NO. 1	OF 1 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	3
CONTRACT NO. 61808				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
						80% FEDERAL 20% LOCAL			
						ROADWAY 0004 URBAN	BRIDGE 0011 URBAN	TRAINEES 0042 URBAN	UTILITIES 0043 URBAN
		20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	91	91			
		20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	40	40			
	S	20200100	EARTH EXCAVATION	CU YD	530	530			
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	266	266			
		20300100	CHANNEL EXCAVATION	CU YD	175	175			
		20800150	TRENCH BACKFILL	CU YD	50	50			
		21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	797	797			
		21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	385	385			
		25000210	SEEDING, CLASS 2A	ACRE	0.5	0.5			
		25000312	SEEDING, CLASS 4A	ACRE	0.25	0.25			
		25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45			
		25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45			
		25100630	EROSION CONTROL BLANKET	SO YD	3,001	3,001			
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	232	232			
		28000305	TEMPORARY DITCH CHECKS	FOOT	100	100			
		28000400	PERIMETER EROSION BARRIER	FOOT	1,039	1,039			
		28000500	INLET AND PIPE PROTECTION	EACH	6	6			
		28000510	INLET FILTERS	EACH	12	12			
		28001100	TEMPORARY EROSION CONTROL BLANKET	SO YD	2,801	2,801			
		28100105	STONE RIPRAP, CLASS A3	SO YD	11	11			
		28100107	STONE RIPRAP, CLASS A4	SO YD	454	91	363		
		28200200	FILTER FABRIC	SO YD	465	102	363		
	S	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	266	266			
	S	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	1,997	1,997			
		31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	44	44			
		40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	6,445	6,445			
		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	30	30			
		40600990	TEMPORARY RAMP	SO YD	136	136			
		40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	648	648			
		40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	381	381			
		42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SO YD	67	67			
		42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	109	109			
		42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	126	126			
		44000100	PAVEMENT REMOVAL	SO YD	1,512	1,512			
		44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	394	394			

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

USER NAME = rporris	DESIGNED -	REVISED -
PLOT SCALE = 1:1	DRAWN -	REVISED -
PLOT DATE = 12/15/2014	CHECKED -	REVISED -
	DATE = 12/15/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO. 1	OF 4 SHEETS	STA. TO STA.

F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 4
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
						ROADWAY 0004 URBAN	BRIDGE 0011 URBAN	TRAINEES 0042 URBAN	UTILITIES 0043 URBAN
		44000300	CURB REMOVAL	FOOT	133	133			
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	191	191			
		44000600	SIDEWALK REMOVAL	SO FT	333	333			
		44201725	CLASS D PATCHES, TYPE I, 7 INCH	SO YD	5	5			
		44201729	CLASS D PATCHES, TYPE II, 7 INCH	SO YD	6	6			
		44201733	CLASS D PATCHES, TYPE III, 7 INCH	SO YD	29	29			
		44201761	CLASS D PATCHES, TYPE I, 10 INCH	SO YD	2	2			
		48101500	AGGREGATE SHOULDERS, TYPE B 6"	SO YD	7	7			
		48203017	HOT-MIX ASPHALT SHOULDERS, 5"	SO YD	244	244			
		50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1		
		50105220	PIPE CULVERT REMOVAL	FOOT	227	227			
		50200300	COFFERDAM EXCAVATION	CU YD	714		714		
		50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1		1		
		50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1		1		
		50300225	CONCRETE STRUCTURES	CU YD	216.3		216.3		
		50300255	CONCRETE SUPERSTRUCTURE	CU YD	146.0		146.0		
		50300260	BRIDGE DECK GROOVING	SO YD	423		423		
		50300280	CONCRETE ENCASEMENT	CU YD	12.6		12.6		
		50300300	PROTECTIVE COAT	SO YD	474		474		
		50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SO FT	1,647		1,647		
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	54,950		54,950		
		51201600	FURNISHING STEEL PILES HP12X53	FOOT	1,054		1,054		
		51202305	DRIVING PILES	FOOT	1,054		1,054		
		51203600	TEST PILE STEEL HP12X53	EACH	2		2		
		51204650	PILE SHOES	EACH	36		36		
		51500100	NAME PLATES	EACH	1		1		
	S	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	4	4			
	S	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1			
	S	54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	4	4			
		542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	40	40			
		542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	32	32			
		550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	227	227			
		550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	73	73			
		55100500	STORM SEWER REMOVAL 12"	FOOT	30	30			
	*	56100050	DUCTILE IRON WATER MAIN TEE, 12" X 6"	EACH	1				1

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USER NAME = nperris	DESIGNED -	REVISED -
PLOT SCALE = 1:1	DRAWN -	REVISED -
PLOT DATE = 12/15/2014	CHECKED -	REVISED -
	DATE = 12/15/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
SCALE:	SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	5
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
						80% FEDERAL 20% LOCAL			
						ROADWAY 0004 URBAN	BRIDGE 0011 URBAN	TRAINEES 0042 URBAN	UTILITIES 0043 URBAN
*	S	56100900	WATER MAIN 12"	FOOT	236				236
*	S	56105200	WATER VALVES 12"	EACH	2				2
*	S	56109412	DUCTILE IRON WATER MAIN FITTINGS 12" 22.50 DEGREE BEND	EACH	2				2
*	S	56109424	DUCTILE IRON WATER MAIN FITTINGS 12" 45.00 DEGREE BEND	EACH	4				4
*	S	56400510	FIRE HYDRANTS TO BE REMOVED AND REPLACED	EACH	2				2
*	S	56400825	FIRE HYDRANT WITH AUXILIARY VALVE, VALVE BOX AND TEE	EACH	1				1
		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	69		69		
		60203905	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1			
	S	60205605	CATCH BASINS, TYPE A, 5'-DIAMETER	EACH	1	1			
		60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1			
		60219200	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 10 FRAME AND GRATE	EACH	1	1			
		60219570	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3V FRAME AND GRATE	EACH	1	1			
		60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	1	1			
		60236700	INLETS, TYPE A, TYPE 10 FRAME AND GRATE	EACH	1	1			
		60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2				2
		60255500	MANHOLES TO BE ADJUSTED	EACH	1	1			
		60260505	INLETS TO BE ADJUSTED WITH NEW TYPE 3V FRAME AND GRATE	EACH	1	1			
*		60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1				1
*		60266600	VALVE BOXES TO BE ADJUSTED	EACH	2				2
	S	60404305	FRAMES AND GRATES, TYPE 3V	EACH	1	1			
		60500050	REMOVING CATCH BASINS	EACH	1	1			
		60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	797	797			
*		63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2	2			
*		63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	2	2			
		67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	5	5			
		67100100	MOBILIZATION	L SUM	1	1			
		70300100	SHORT TERM PAVEMENT MARKING	FOOT	200	200			
		70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	100	100			
		72000100	SIGN PANEL - TYPE 1	SQ FT	18	18			
		72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	7	7			
		72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	55	55			
*		78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	42	42			
*		78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3,087	3,087			
*		78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	168	168			
*		78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	51	51			

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WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
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USER NAME = nparris	DESIGNED -	REVISED -
PLOT SCALE = 1:1	DRAWN -	REVISED -
PLOT DATE = 12/15/2014	CHECKED -	REVISED -
	DATE - 12/15/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO. 3 OF 4 SHEETS	STA.	TO STA.

F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 6
CONTRACT NO. 61B08				
[ILLINOIS] FED. AID PROJECT				

SUMMARY OF QUANTITIES

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
						80% FEDERAL 20% LOCAL			
						ROADWAY 0004 URBAN	BRIDGE 0011 URBAN	TRAINEES 0042 URBAN	UTILITIES 0043 URBAN
•		78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	43	43			
•	S	78200410	GUARDRAIL MARKERS, TYPE A	EACH	4	4			
•	S	78200520	BARRIER WALL MARKERS, TYPE B	EACH	4	4			
•	S	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2			
*	S	88600600	DETECTOR LOOP REPLACEMENT	FOOT	220	220			
	S	X0326806	WASHOUT BASIN	L SUM	1	1			
	S	X0350810	BOLLARD REMOVAL	EACH	2	2			
•	S	X2090215	SELECT GRANULAR BACKFILL, SPECIAL	CU YD	17				17
	S	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	100			
	S	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	4	4			
	S	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	2	2			
	S	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SO YD	1,094	1,094			
	S	X5030305	CONCRETE WEARING SURFACE, 5"	SO YD	184		184		
•	S	X5610662	WATER MAIN TO BE ABANDONED, 12"	FOOT	211				211
	S	X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	97		97		
	S	X6020074	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	EACH	3	3			
	S	X6020116	CONTROL STRUCTURES, 6' DIAMETER (SPECIAL)	EACH	1	1			
•	S	X6310195	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT), MODIFIED	EACH	2	2			
•	S	X6310214	TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL)	EACH	2	2			
	S	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1			
	S	X7010237	CHANGEABLE MESSAGE SIGN, SPECIAL	CAL DA	28	28			
	S	XX002895	SANITARY MANHOLES TO BE RECONSTRUCTED WITH NEW FRAME & LID	EACH	3	3			
•	S	XX007169	NON-PRESSURE CONNECTION	EACH	1				1
	S	XX008945	WATER VALVES TO BE REMOVED	EACH	1				1
	S	Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SO YD	150	150			
	S	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
	S	Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	68	68			
*	S	Z0041900	POLYETHYLENE ENCASUREMENT	FOOT	236				236
*	S	Z0045100	PRESSURE CONNECTION 12" X 12"	EACH	1				1
	S	Z0055905	TEMPORARY CONSTRUCTION FENCE	FOOT	200	200			
	S	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	FOOT	53	53			
	S	Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	FOOT	45	45			
	S	Z0076600	TRAINEES	HOUR	500			500	
	S	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500			500	
		60107600	Pipe Underdrains 4"	Foot	200	200			

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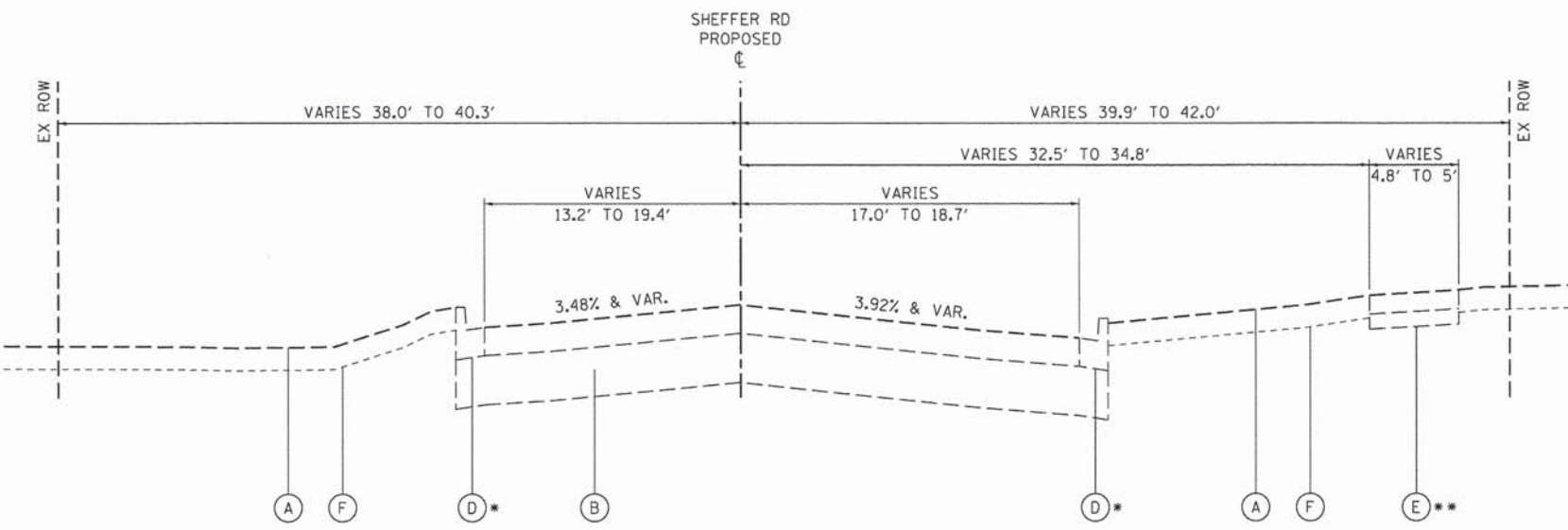
WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174

USER NAME = nparris	DESIGNED -	REVISED -
PLOT SCALE = 1:1	DRAWN -	REVISED -
PLOT DATE = 12/15/2014	CHECKED -	REVISED -
	DATE - 12/15/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO. 4 OF 4 SHEETS	STA.	TO STA.

F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 7
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION NO.1

STA. 100+44.0 TO 105+50.6, SHEFFER ROAD

BRIDGE OMISSION

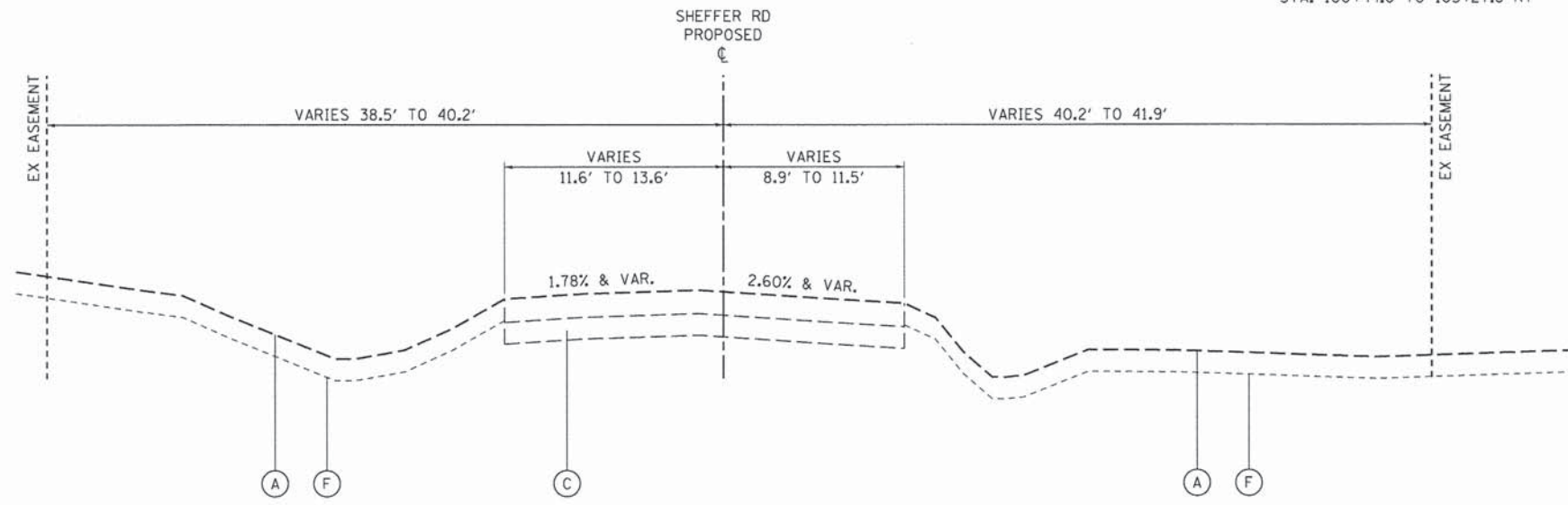
STA. 105+50.6 TO 105+81.5, SHEFFER ROAD

*** CURB & GUTTER**

STA. 100+44.0 TO 104+46.2 RT
 STA. 100+44.0 TO 100+58.7 LT
 STA. 101+04.7 TO 101+40.4 LT

**** SIDEWALK**

STA. 100+44.0 TO 105+27.8 RT



EXISTING TYPICAL SECTION NO.2

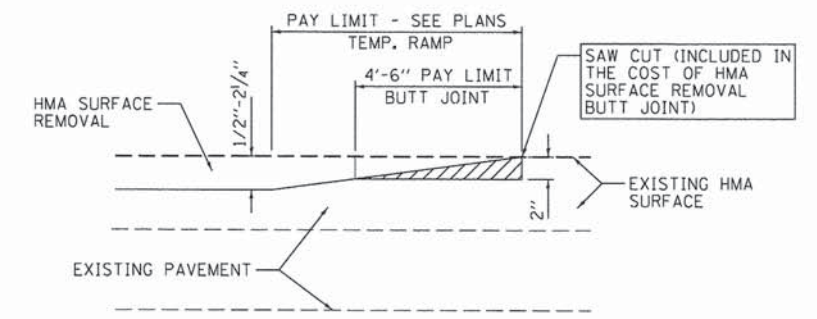
STA. 105+50.6 TO 108+80.0, SHEFFER ROAD

EXISTING PAVEMENT NOTES

1. INFORMATION ON HMA COURSE AND AGGREGATE BASE COURSE THICKNESSES ARE TAKEN FROM THE FOLLOWING RESOURCES:
 ROADWAY GEOTECHNICAL INFORMATION HAS BEEN DOCUMENTED IN THE STRUCTURE GEOTECHNICAL REPORT PREPARED BY TESTING SERVICE CORPORATION DATED NOVEMBER 19, 2012.
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 THEY ARE 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.

LEGEND, EXISTING

- (A) EXISTING GROUND LINE
- (B) EXISTING PAVEMENT STRUCTURE (WEST OF STRUCTURE)
 7 1/2" HOT-MIX ASPHALT SURFACE COURSE
 13" AGGREGATE BASE COURSE
- (C) EXISTING PAVEMENT STRUCTURE (EAST OF STRUCTURE)
 6 1/4" - 6 1/2" HOT-MIX ASPHALT SURFACE COURSE
 5" - 6" AGGREGATE BASE COURSE
- (D) EXISTING CONCRETE COMBINATION CURB & GUTTER, B6.12
- (E) EXISTING CONCRETE SIDEWALK
 5" PC CONCRETE
 4" AGGREGATE SUB-BASE
- (F) EXISTING TOPSOIL, 6"
- (G) EXISTING AGGREGATE SHOULDER

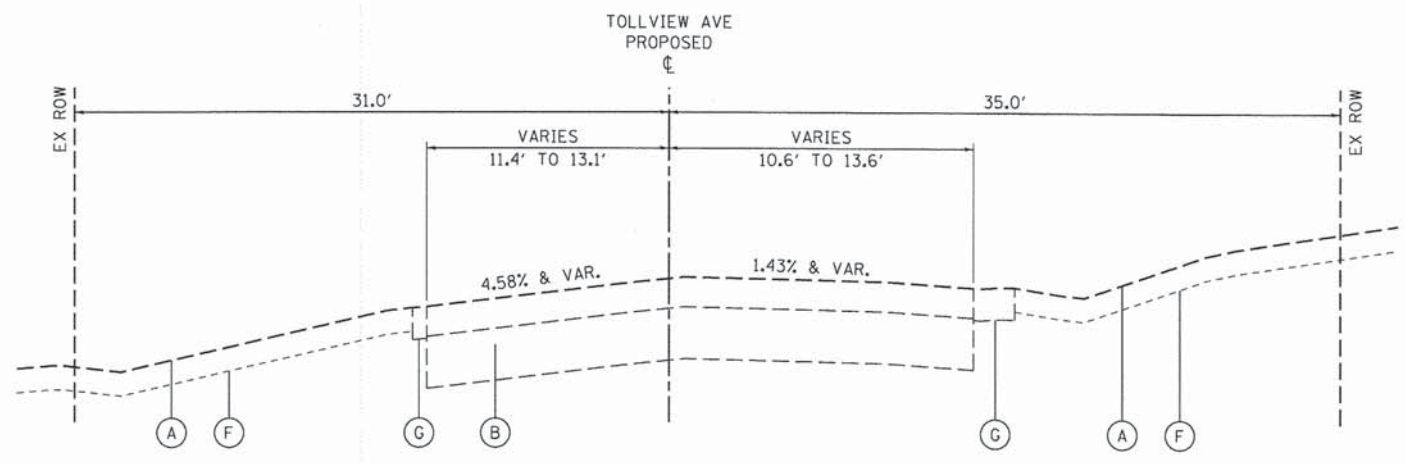


TYPICAL TEMPORARY RAMP

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".



EXISTING TYPICAL SECTION NO.3

STA. 19+26.2 TO 20+00.0, TOLLVIEW AVE

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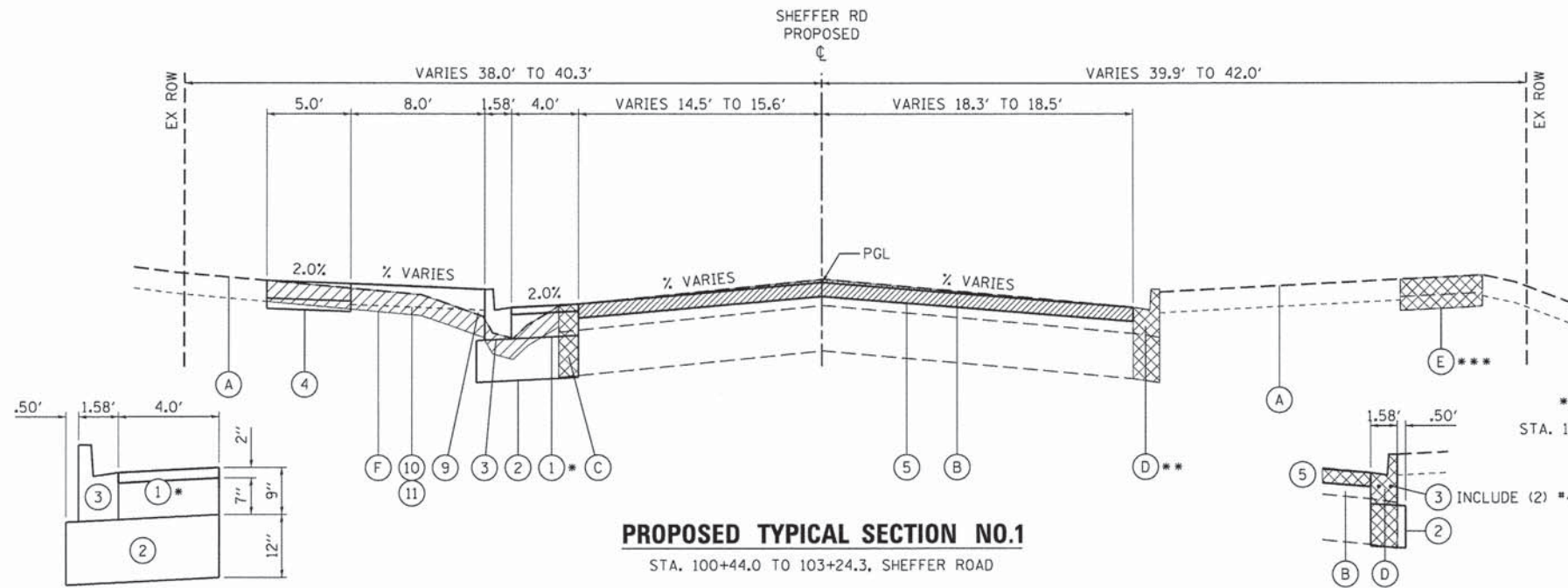


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DRAWN - NDP	REVISED -	
PLOT SCALE = 1/8"	CHECKED - SBP	REVISED -
PLOT DATE = 12/12/2014	DATE - 12/15/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS	
SCALE:	SHEET NO. 1 OF 3 SHEETS STA. TO STA.

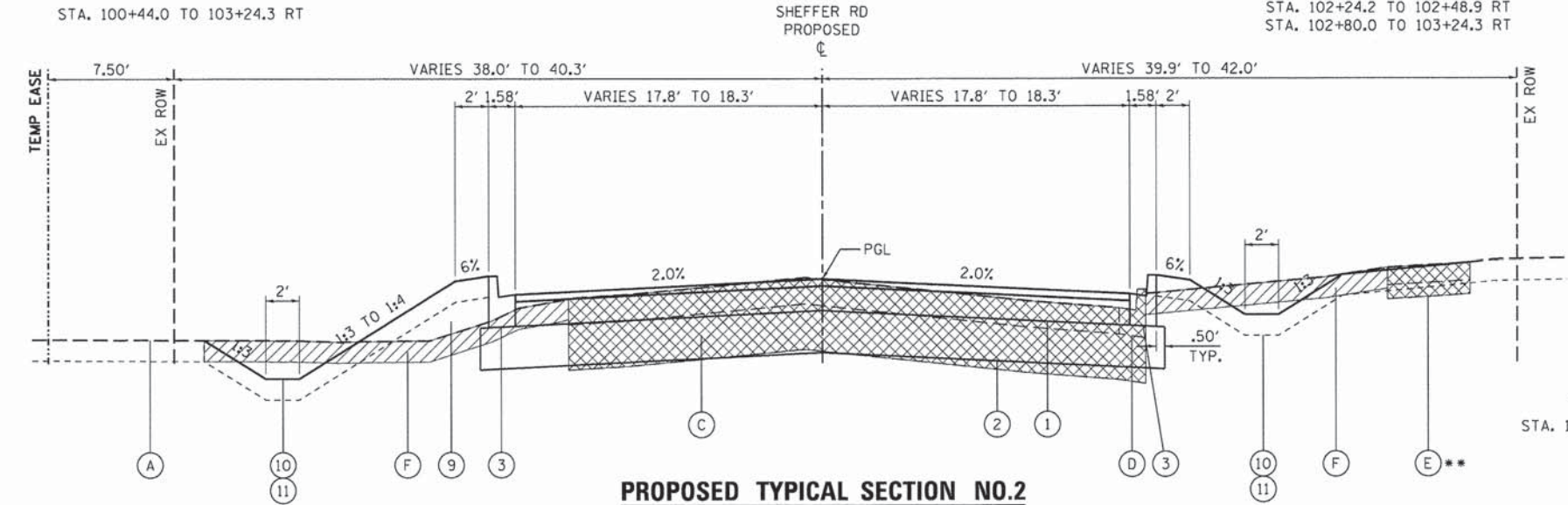
F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 8
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION NO.1

STA. 100+44.0 TO 103+24.3, SHEFFER ROAD

* CURB & GUTTER
STA. 100+44.0 TO 103+24.3 RT



PROPOSED TYPICAL SECTION NO.2

STA. 103.24.3 TO 104+63.4 RT, SHEFFER ROAD
STA. 103.24.3 TO 104+80.5 LT, SHEFFER ROAD

** CURB & GUTTER
STA. 102+24.2 TO 102+48.9 RT
STA. 102+80.0 TO 103+24.3 RT

** SIDEWALK
STA. 103+24.3 TO 105+27.8 RT

LEGEND, EXISTING

- (A) EXISTING GROUND LINE
- (B) EXISTING SURFACE COURSE REMOVAL, VARIABLE DEPTH (XX4401198)
- (C) EXISTING PAVEMENT REMOVAL, FULL DEPTH (44000100)
- (D) EXISTING CONCRETE COMBINATION CURB & GUTTER REMOVAL (44000500)
- (E) EXISTING CONCRETE SIDEWALK REMOVAL (44000600) (INCLUDES AGG SUB-GRADE)
- (F) EXISTING TOPSOIL STRIPPING, 6" (20201200)

LEGEND, PROPOSED

- (1) 7" PROPOSED PAVEMENT STRUCTURE
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (40603335)
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 5" (40603080)
- (2) AGGREGATE SUBGRADE IMPROVEMENT, 12" (30300112)
- (3) CONCRETE COMBINATION CURB & GUTTER, TYPE B-6.12 (60603800)
- (4) PORTLAND CEMENT CONCRETE SIDEWALK, 5" PC CONCRETE, 5" (42400200)
SUBBASE GRANULAR MATERIAL, TY B, 4" (31101100)
- (5) PROPOSED PAVEMENT OVERLAY
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (40603335)
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4" & VARIES (40603080)
- (6) 7" PROPOSED HOT-MIX ASPHALT SHOULDER
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (40603335)
HOT-MIX ASPHALT SHOULDERS, 5" (48203017)
- (7) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, VARIABLE DEPTH (40603080)
- (8) GUARDRAIL (TYPE AS SPECIFIED)
- (9) STRUCTURAL EMBANKMENT
- (10) 6" TOPSOIL EXCAVATION AND PLACEMENT (21101505)
- (11) SEEDING (TYPE AS SPECIFIED) W/ EROSION CONTROL BLANKET

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
ITEM	AIR VOIDS @ Ndes
SHEFFER ROAD - PAVEMENT STRUCTURE, 7"	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 5" (2-1/4" MIN. - 4" MAX.)*	4% @ 50 GYR.
SHEFFER ROAD - APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (2-1/4" MIN. - 4" MAX.)*	4% @ 50 GYR.
HMA SHOULDERS 7"	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT SHOULDER (HMA BINDER IL-19 mm), 5" (2-1/4" MIN. - 4" MAX.)*	4% @ 50 GYR.
DRIVEWAY PAVEMENT (P.E.)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; 6" (2-1/4" MIN. - 4" MAX.)*	4% @ 50 GYR.
HMA OVERLAY	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50; VAR. DEPTH (2-1/4" MIN. - 4" MAX.)*	4% @ 50 GYR.

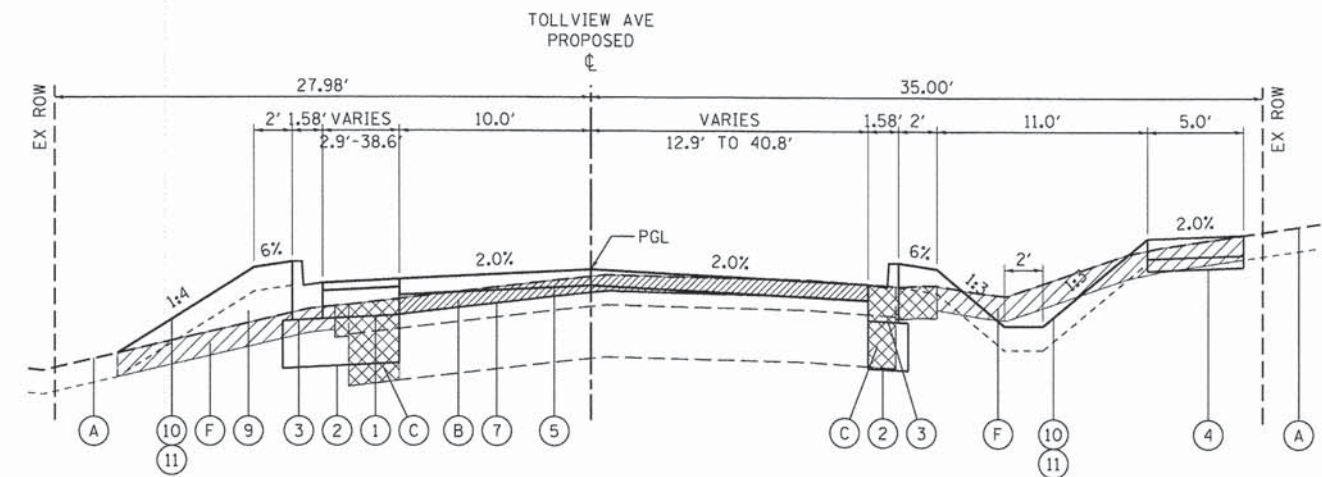
STRUCTURAL PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC: Year 2025
 PV = 3852 SU = 162 MU = 41
 ROAD/STREET CLASSIFICATION: Class 2
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P = 95 S = 4 M = 1
 TRAFFIC FACTOR: Actual TF = 0.345 AC Type = PG 64-22
 Minimum TF = NA
 PG GRADE: Binder = PG 64-22 / 58-22 Surface = PG 64-28
 SUBGRADE SUPPORT RATING: SSR = POOR

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

THE AC TYPE FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS, FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

*NUMBER OF LIFTS TO BE DETERMINED BY THE ENGINEER.



PROPOSED TYPICAL SECTION NO.3

STA. 19+26.2 TO 20+00.0, TOLLVIEW AVENUE

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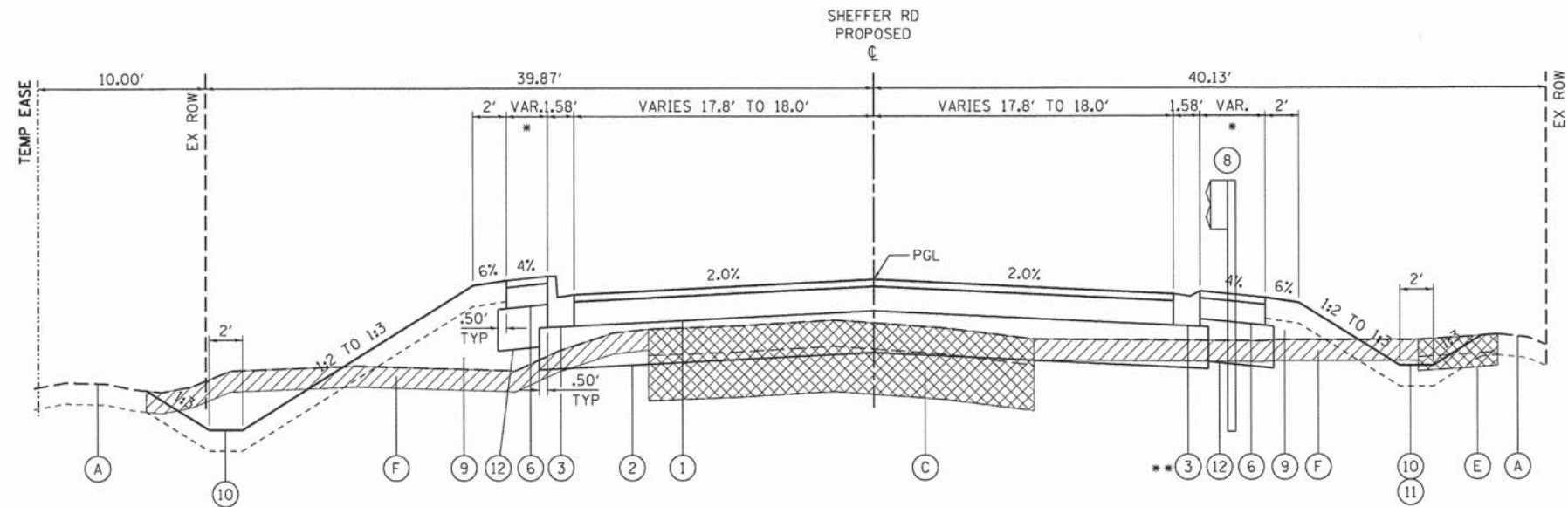
WBK
 WILLS BURKE KELSEY ASSOCIATES LTD.
 110 West Main Street, Suite 201
 St. Charles, Illinois 60114

USER NAME = nparris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:5	DRAWN - NDP	REVISED -
PLOT DATE = 12/12/2014	CHECKED - SBP	REVISED -
	DATE - 12/15/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS	
SCALE:	SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 9
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				



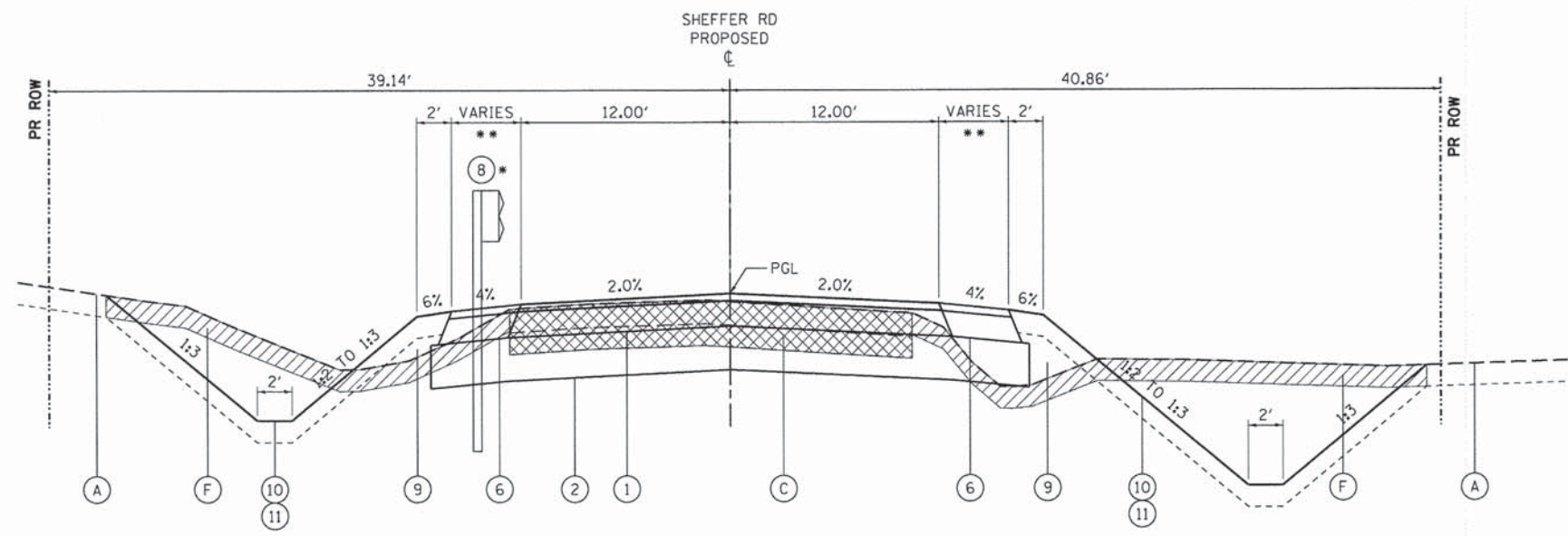
PROPOSED TYPICAL SECTION NO.4

STA. 104+63.4 TO 105+15.4 RT, SHEFFER ROAD
 STA. 104+85.5 TO 105+15.4 LT, SHEFFER ROAD

* **SHOULDER WIDTH**
 VARIES 2.0' TO 4.0'

** **DEPRESSED CURB**
 STA. 104+68.4 TO 105+15.4 RT

BRIDGE OMISSION
 STA. 105+15.4 TO 106+16.6, SHEFFER ROAD



PROPOSED TYPICAL SECTION NO.5

STA. 106+16.6 TO 108+50.0, SHEFFER ROAD

* **GUARDRAIL**
 STA. 106+16.6 TO 106+34.6 LT

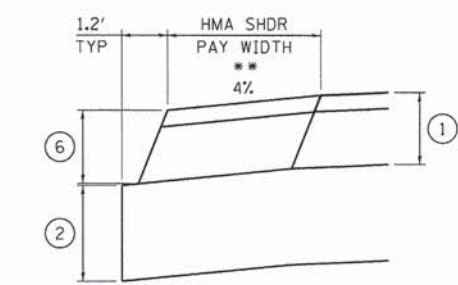
** **SHOULDER WIDTH**
 VARIES 2.0' TO 10.4', RT
 VARIES 2.0' TO 11.4', LT

LEGEND, EXISTING

- (A) EXISTING GROUND LINE
- (B) EXISTING SURFACE COURSE REMOVAL, VARIABLE DEPTH (XX4401198)
- (C) EXISTING PAVEMENT REMOVAL, FULL DEPTH (44000100)
- (D) EXISTING CONCRETE COMBINATION CURB & GUTTER REMOVAL (44000500)
- (E) EXISTING CONCRETE SIDEWALK REMOVAL (44000600)
(INCLUDES AGG SUB-GRADE)
- (F) EXISTING TOPSOIL STRIPPING, 6" (20201200)

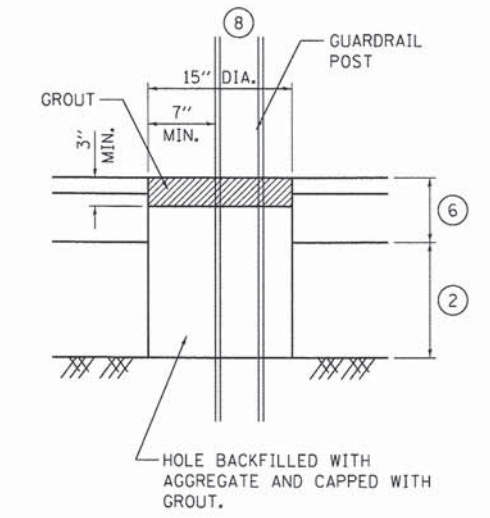
LEGEND, PROPOSED

- (1) 7" PROPOSED PAVEMENT STRUCTURE
 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (40603335)
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 5" (40603080)
- (2) AGGREGATE SUBGRADE IMPROVEMENT, 12" (30300112)
- (3) CONCRETE COMBINATION CURB & GUTTER, TYPE B-6.12 (60603800)
- (4) PORTLAND CEMENT CONCRETE SIDEWALK, 5"
 PC CONCRETE, 5" (42400200)
 SUBBASE GRANULAR MATERIAL, TY B, 4" (31101100)
- (5) PROPOSED PAVEMENT OVERLAY
 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (40603335)
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2 1/4" & VARIES (40603080)
- (6) 7" PROPOSED HOT-MIX ASPHALT SHOULDER
 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 2" (40603335)
 HOT-MIX ASPHALT SHOULDERS, 5" (48203017)
- (7) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, VARIABLE DEPTH (40603080)
- (8) GUARDRAIL (TYPE AS SPECIFIED)
- (9) STRUCTURAL EMBANKMENT
- (10) 6" TOPSOIL EXCAVATION AND PLACEMENT (21101505)
- (11) SEEDING (TYPE AS SPECIFIED) W/ EROSION CONTROL BLANKET
- (12) SUBBASE GRANULAR MATERIAL, TYPE B (31101100)



HMA SHOULDER DETAIL

STA. 106+01.6 TO 108+50.0 LT/RT



GUARDRAIL GROUT DETAIL

SEE STD. 630201 FOR ADDITIONAL DETAILS

FILE NAME: W:\Projects\2013\130179_Sheffer\PHI\Needs\Civil\Drawings\TYP.g83.dgn

WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60114

USER NAME = nparris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:5	DRAWN - NDP	REVISED -
PLOT DATE = 12/12/2014	CHECKED - SBP	REVISED -
	DATE - 12/15/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS	
SCALE:	SHEET NO. 3 OF 3 SHEETS
STA.	TO STA.

F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 10
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

UNIT	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
6	105+53.6	22.6		
6	105+83.3	31.6		
14	105+88.4	31.0		
11	105+56.8		19.7	MULTI-STEM
6	105+79.3		19.2	
12	105+83.1		25.3	
6	105+85.4		38.7	
12	106+01.8		34.5	
12	106+07.5		28.5	
6	107+79.3		29.2	
91	TOTAL			

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

UNIT	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
22.0	105+17.2	24.2		
18.0	105+19.2	22.1		
40.0	TOTAL			

20800150 TRENCH BACKFILL

VOLUME	PIPE DIA.	LENGTH	DEPTH	COEFF.	COMMENTS
CU YD	INCH	FT	FT	CU YD/LF	
9	102+45.90	12	44.0	0.184	STORM SEWER
2	102+37.90	12	12.0	0.132	STORM SEWER
8	104+72.90	12	32.0	0.226	STORM SEWER
2	104+79.90	12	10.0	0.163	STORM SEWER
3	104+79.90	12	15.0	0.163	STORM SEWER
2	104+72.90	12	4.0	0.268	STORM SEWER
2	106+47.75	15	14.0	0.121	DRIVEWAY CULVERT
2	107+12.73	24	14.0	0.116	DRIVEWAY CULVERT
2	108+08.73	24	14.0	0.116	DRIVEWAY CULVERT
2	108+26.24	15	14.0	0.121	DRIVEWAY CULVERT
16	106+32.02	12	48.0	0.320	WATER MAIN
50	TOTAL				

50105220 PIPE CULVERT REMOVAL

FOOT	LOCATION	O/S	COMMENTS
93	STA. 102+09.3 TO 103+02.1	LT	15" CMP
21	STA. 105+82.4 TO 106+03.6	LT	15" CMP
26	STA. 106+31.9 TO 106+58.2	LT	15" CMP
31	STA. 106+89.1 TO 107+20.2	RT	12" CMP
29	STA. 107+92.7 TO 108+21.5	RT	12" CMP
27	STA. 108+13.2 TO 108+40.6	LT	
227	TOTAL		

54213660 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	106+33.70	35.6		AT END
1	106+61.80	32.4		AT END
1	108+07.70	23.8		AT END
1	108+43.80	24.1		AT END
4	TOTAL			

54213663 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	105+53.20		34.9	AT END
1	TOTAL			

54213669 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	106+96.60		29.2	AT END
1	107+27.90		28.8	AT END
1	107+94.60		29.1	AT END
1	108+22.90		29.3	AT END
4	TOTAL			

542A0220 PIPE CULVERTS, CLASS A, TYPE 1 15"

FOOT	LOCATION	O/S	COMMENTS
16	106+47.70	LT	AT DRIVEWAY
24	108+26.20	LT	AT DRIVEWAY
40	TOTAL		

542A0229 PIPE CULVERTS, CLASS A, TYPE 1 24"

FOOT	LOCATION	O/S	COMMENTS
16	107+12.70	RT	AT DRIVEWAY
16	108+08.70	RT	AT DRIVEWAY
32	TOTAL		

550A0050 STORM SEWERS, CLASS A, TYPE 1 12"

FOOT	STA. UP	STA. DN.	O/S UP	O/S DN.	COMMENTS
85	102+45.9	103+30.7	28.8 RT	28.1 RT	
20	102+53.2	102+45.9	52.0 LT	24.2 LT	
17	102+30.0	102+45.9	18.5 LT	24.2 LT	
4	104+27.6	104+27.5	18.1 RT	26.0 RT	
8	104+19.5	104+27.5	26.2 RT	26.0 RT	
8	104+27.5	104+27.5	26.0 RT	34.0 RT	
14	104+87.0	107+72.9	17.9 LT	17.9 LT	
36	107+72.9	104+72.9	17.9 LT	17.9 RT	
19	104+92.0	104+72.9	17.9 RT	17.9 RT	
16	104+72.9	104+72.9	17.9 RT	26.6 RT	
227	TOTAL				

550A0090 STORM SEWERS, CLASS A, TYPE 1 18"

FOOT	STA. UP	STA. DN.	O/S UP	O/S DN.	COMMENTS
73	104+72.9	105+53.2	26.6 RT	34.1 RT	
73	TOTAL				

56400510 FIRE HYDRANTS TO BE REMOVED AND REPLACED

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	102+35.9	26.2		
1	107+36.3		21.2	
2	TOTAL			

56400825 FIRE HYDRANT WITH AUXILIARY VALVE, VALVE BOX AND TEE

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	104+52.80	23.1		
1	TOTAL			

60203905 CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	104+77.90		34.7	
1	TOTAL			

60205605 CATCH BASINS, TYPE A, 5'-DIAMETER

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	102+45.90	24.2		
1	TOTAL			

60218400 MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	102+49.50		28.8	
1	TOTAL			

60219200 MANHOLES, TYPE A, 4'-DIAMETER, TYPE 10 FRAME AND GRATE

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	104+72.90		17.9	
1	TOTAL			

60219570 MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3V FRAME AND GRATE

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	104+72.90	17.9		
1	TOTAL			

60236200 INLETS, TYPE A, TYPE 8 GRATE

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	102+53.20	52.0		
1	TOTAL			

60236700 INLETS, TYPE A, TYPE 10 FRAME AND GRATE

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	104+92.00		17.9	
1	TOTAL			

60248900 VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	104+51.80	31.6		VALVE VAULT NO. 1
1	106+32.00		24.3	VALVE VAULT NO. 2
2	TOTAL			

60255500 MANHOLES TO BE ADJUSTED

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	103+30.70		28.1	STORM MANHOLE
1	TOTAL			

60260505 INLETS TO BE ADJUSTED WITH NEW TYPE 3V FRAME AND GRATE

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	103+29.78		18.7	
1.0	TOTAL			

60265700 VALVE VAULTS TO BE ADJUSTED

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	104+38.00	27.9		VALVE VAULT
1	TOTAL			

60266600 VALVE BOXES TO BE ADJUSTED

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	102+54.50	18.2		
1	102+58.50	16.5		
2	TOTAL			

60404305 FRAMES AND GRATES, TYPE 3V

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	102+45.90	24.2		
1	TOTAL			

60500050 REMOVING CATCH BASINS

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	104+27.50		26.0	
1	TOTAL			

FILE NAME = M:\Projects\2013\130719_Sheriff\PHI\Acadd\Civil\Drawn\Sheet\SCH-REDU-01.dgn



USER NAME = nparr1s	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 12/15/2014	CHECKED - SBP	REVISED -
	DATE - 12/15/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	11
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE

LOCATION	END AREAS					TOPSOIL			EARTHWORK				SUBGRADE IMPROVEMENT			
	TOPSOIL STRIPPING (TSS)	TOPSOIL EMBANKMENT	EXCAVATION (C)	EMBANKMENT (F)	UNDERCUT	21101505 TOPSOIL EXCAVATION & PALCEMENT	TOPSOIL EMBANKMENT	BALANCE WASTE(+) OR SHORTAGE (-) (NO SHRINKAGE)	20200100 EARTH EXCAVATION	EMBANKMENT	20400800 BALANCE WASTE (+) or SHORTAGE (-)	20300100 CHANNEL EXCAVATION	20201200 REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	30300001 AGGREGATE SUBGRADE IMPROVEMENT	21001000 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	
	(SQ FT)	(SQ FT)	(SQ FT)	(SQ FT)	(SQ FT)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(SQ YD)	
MAINLINE																
100+00.00	0.0	0.0	0.0	0.0	0.0											
100+44.00	5.5	3.2	2.2	0.0	0.0	4.5	2.6	1.9	1.8	0.0	1.5		0.0	0.0	0.0	
100+87.02	0.0	0.0	10.9	0.0	0.0	4.4	2.5	1.9	10.4	0.0	8.8		0.0	0.0	0.0	
101+25.00	10.3	5.7	9.9	0.7	0.0	7.3	4.0	3.3	14.6	0.5	11.9		0.0	0.0	0.0	
101+66.93	0.0	0.0	10.2	0.0	0.0	8.0	4.4	3.6	15.7	0.6	12.7		0.0	0.0	0.0	
102+00.00	8.7	4.0	3.6	3.1	0.0	5.3	2.5	2.9	8.5	1.9	5.3		0.0	0.0	0.0	
102+50.00	0.0	0.0	0.0	0.0	0.0	8.1	3.7	4.4	3.3	2.9	0.0		0.0	0.0	0.0	
102+75.74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	
103+00.00	2.1	1.0	2.5	0.2	0.0	0.9	0.5	0.5	1.1	0.1	0.9		0.0	0.0	0.0	
103+50.00	16.7	14.0	15.2	10.7	43.9	17.4	13.9	3.4	16.4	10.1	3.9		40.7	40.7	122.0	
104+00.00	15.8	12.9	9.6	23.9	9.8	30.1	24.9	5.2	23.0	32.1	-12.5		49.8	49.8	149.3	
104+50.00	17.4	13.4	6.5	39.6	13.4	30.7	24.3	6.4	14.9	58.8	-46.1		21.5	21.5	64.5	
105+00.00	24.5	15.0	8.4	40.4	25.1	38.8	26.3	12.5	13.8	74.1	-62.4		35.7	35.7	107.0	
105+15.41	26.1	16.3	26.8	25.2	19.3	14.4	8.9	5.5	10.1	18.7	-10.2		12.7	12.7	38.0	
105+30.41	28.8	16.6	28.5	37.5	0.0	15.2	9.1	6.1	15.4	17.4	-4.4		5.4	5.4	16.1	
BRIDGE																
106+01.58	31.0	19.0	17.8	94.7	0.0									0.0	0.0	
106+16.58	28.2	16.8	16.8	70.1	0.0	16.5	10.0	6.5	9.6	45.8	-37.6		0.0	0.0	0.0	
106+47.75	18.4	10.3	16.2	38.2	0.0	26.9	15.6	11.3	19.1	62.5	-46.3		0.0	0.0	0.0	
106+75.00	28.1	21.9	40.7	27.1	0.0	23.5	16.3	7.2	28.7	33.0	-8.6		0.0	0.0	0.0	
107+12.73	10.1	9.5	24.0	5.2	0.0	26.7	21.9	4.8	45.2	22.6	15.8		0.0	0.0	0.0	
107+50.00	23.9	21.2	56.7	7.3	0.0	23.5	21.1	2.3	55.7	8.6	38.7		0.0	0.0	0.0	
108+08.73	8.5	6.9	22.1	9.0	0.0	35.2	30.6	4.7	85.7	17.8	55.1		0.0	0.0	0.0	
108+26.24	17.6	12.8	69.2	5.1	0.0	8.5	6.4	2.1	29.6	4.6	20.6		0.0	0.0	0.0	
108+50.00	21.6	19.2	55.8	8.0	0.0	17.2	14.1	3.2	55.0	5.8	41.0		0.0	0.0	0.0	
109+00.00	0.0	0.0	0.0	0.0	0.0	20.0	17.7	2.3	51.7	7.4	36.6		0.0	0.0	0.0	
CHANNEL EX.																
0+00.00			0.0													
0+10.00			0.0									0.0				
0+16.99			36.7									4.8				
0+30.72			69.9									27.1				
0+49.72			88.1									55.6				
0+68.72			50.8									48.9				
0+80.13			59.0									23.2				
0+89.80			0.0									10.6				
SHRINKAGE FACTOR					15%	TOTAL		383.2	281.3	101.8	529.0	425.0	24.6	170.2	165.6	496.7
						ADJ. TOTAL		385.0	285.0	105.0	530.0	430.0	+25.0	175.0	166.0	497.0

FILE NAME = W:\Projects\2013\120179_Sheriff\PHI\Needs\Civil\Ngn\Shr\Sched\083.dgn



USER NAME = nparr18	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 12/15/2014	CHECKED - SBP	REVISED -
	DATE - 12/15/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO. 3 OF 6 SHEETS	STA.	TO STA.

F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 13
CONTRACT NO. 61B08				ILLINOIS FED. AID PROJECT

EARTHWORK SUMMARY

LOCATION	EARTHWORK				TOPSOIL			SUBGRADE IMPROVEMENT		
	20200100		20400800	20300100	21101505			20201200	30300001	21001000
	EARTH EXCAVATION	EMBANKMENT	FURNISHED EXCAVATION BALANCE WASTE (+) or SHORTAGE (-)	CHANNEL EXCAVATION	TOPSOIL EXCAVATION & PLACEMENT	TOPSOIL EMBANKMENT	BALANCE WASTE(+) OR SHORTAGE (-) (NO SHRINKAGE)	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	AGGREGATE SUBGRADE IMPROVEMENT	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(SQ YD)
MAINLINE	530.0	430.0	25.0	175.0	385.0	285.0	105.0	166.0	166.0	497.0
R.E. DESCRETION								100.0	100.0	300.0
SUB-TOTAL	530.0	430.0	+25	175.0	385.0	285.0	+105.0	266.0	266.0	797.0
TOTAL	530.0		+25	175.0	385.0			266.0	266.0	797.0

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 IS 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.

NO SHRINKAGE FACTOR WAS APPLIED WHEN CALCULATING TOPSOIL QUANTITIES.

RECOMMENDATIONS OUTLINED IN THE STRUCTURE GEOTECHNICAL REPORT PREPARED BY TESTING SERVICE CORPORATION DATED JULY 17, 2012 AND ADDITIONAL LPC-663 SAMPLING & ANALYSIS REPORT DATED MAY 22, 2014 WERE USED IN PREPARATION OF THE ROADWAY PLANS AND RELATED QUANTITY CALCULATIONS.

SIX (6) INCHES OF TOPSOIL WAS ASSUMED ON THIS PROJECT FOR THE PURPOSE OF CALCULATING TOPSOIL STRIPPING QUANTITIES.

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 REQUIRMENTS 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 INCLUDED IN THE COST OF EXCAVATION.

IN ADDITION TO ANY AREAS SHOWN ON THE PLANS, 100 CY OF ADDITIONAL AGGREGATE SUBGRADE IMPROVEMENT (ASI) HAS BEEN PROVIDED FOR LOCATIONS WHERE SOILS ARE DETERMINED TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE SOILS ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE STABILITY MANUAL AND ROLL USING FULL LOAD SEMI), IF UNSUITABLE AND/OR UNSTABLE MATERIALS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR.

EARTH AND TOPSOIL EXCAVATION SHALL BE PAID FOR ONLY ONCE, REGARDLESS OF STAGING OR SEQUENCING OF CONTRACTORS OPERATIONS THAT REQUIRE STOCKPILING OF MATERIALS FOR LATER USE FOR REDISTRIBUTION AND RESPREADING IN SHOULDERS AND CONSTRUCTING OF EMBANKMENTS.

TOPSOIL EXCAVATION AND PLACEMENT INCLUDES EXCAVATION, TRANSPORTING, AND TEMPORARILY STOCKPILING, TRANSPORTING FROM THE STOCKPILE AND PLACING THE TOPSOIL TO THE THICKNESS SPECIFIED IN ITS FINAL POSITION.

FILE NAME: \\P:\Projects\2013\130179_Sheriff\Ph1\Need\Civil\Ogr\SHA\SCHEDULE 04.dgn

WILLS BURKE KELSEY ASSOCIATES LTD. <small>116 West Main Street, Suite 201 St. Charles, Illinois 60174</small>	USER NAME = nperris	DESIGNED - MNB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:1	CHECKED - SBP	REVISED -			2421	11-00298-00-BR	KANE	85	14
PLOT DATE = 12/15/2014	DATE = 12/15/2014	REVISED -			SCALE:	SHEET NO. 4 OF 6 SHEETS		STA.	TO STA.	
						ILLINOIS FED. AID PROJECT CONTRACT NO. 61B08				

PAVEMENT SCHEDULE

LOCATION	30300112	31101100	40600275	40603080	40603335	42001430	42300400	42400200	48101500	48203017	60603800	
	AGGREGATE SUBGRADE IMPROVEMENT 12"	SUBBASE GRANULAR MATERIAL, TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	HOT-MIX ASPHALT BINDER COURSE, MIX D, N50	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N50	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8"	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	AGGREGATE SHOULDERS, TYPE B 6"	HOT-MIX ASPHALT SHOULDERS, 5"	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	
	(SQ YD)	(SQ YD)	(POUND)	(TON)	(TON)	(SQ YD)	(SQ YD)	(SQ FT)	(SQ YD)	(SQ YD)	(FOOT)	
SHEFFER ROAD												
100+00.00	100+44.00		0.2									
100+44.00	101+25.00	137.9	8.6	462.0	61.0	37.8		50.3	1.6		134.0	
101+25.00	102+00.00	142.1	9.0	458.5	55.5	34.5		58.1	43.2		80.5	
102+00.00	102+50.00	33.6	4.6	171.3	37.5	23.8			39.7		76.5	
102+50.00	103+00.00	71.0		347.2	75.1	46.6			41.3	7.0	71.9	
103+00.00	103+50.00	147.2		426.6	49.5	23.8					102.9	
103+50.00	104+00.00	225.6		598.8	56.7	22.7					100.0	
104+00.00	104+50.00	224.1		594.6	56.3	22.5					100.0	
104+50.00	105+00.00	234.7		623.3	55.8	23.7				12.2	100.0	
105+00.00	105+30.40	88.6		236.5	17.1	9.2	39.7			21.4	30.9	
BRIDGE												
106+01.60	106+75.00	126.3	3.1	494.4	45.8	37.0	26.7			5.2		
106+75.00	107+50.00	247.4	6.1	836.8	58.8	39.2				119.3		
107+50.00	108+08.70	188.1	3.1	592.3	46.0	26.6				41.1		
108+08.70	108+50.70	129.8	8.8	599.5	32.3	32.2				26.1		
108+50.70	109+00.00									18.3		
TOTAL		1996.40	43.11	6444.10	647.53	380.21	66.40	108.40	124.20	7.00	243.60	796.70
ADJUSTED TOTAL		1997.0	44.0	6445.0	648.0	381.0	67.0	109.0	126.0	7.0	244.0	797.0

PAVEMENT MARKING & GUARDRAIL SCHEDULE

LOCATION	63100045	63100070	78000100	78000200	78000400	78000600	78000650	78200140	78200520	78201000	X6310195	X6310214
	TRAFFIC BARRIER TERMINAL, TY 2	TRAFFIC BARRIER TERMINAL, TY 5	THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS	THERMOPLASTIC PAVEMENT MARKING LINE 4"	THERMOPLASTIC PAVEMENT MARKING LINE 6"	THERMOPLASTIC PAVEMENT MARKING LINE 12"	THERMOPLASTIC PAVEMENT MARKING LINE 24"	GUARDRAIL MARKERS, TYPE A	BARRIER WALL MARKERS, TYPE B	TERMINAL MARKER - DIRECT APPLIED	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT), MODIFIED	TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL)
	(EACH)	(EACH)	(SQ FT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
SHEFFER ROAD												
100+00.00	100+44.00											
100+44.00	101+25.00		20.8	148.0	78.0		26.1					
101+25.00	102+00.00			152.4	41.7							
102+00.00	102+50.00		20.8	96.0	48.0							
102+50.00	103+00.00			66.6			16.0					
103+00.00	103+50.00			292.8		16.6						
103+50.00	104+00.00			300.0		23.9						
104+00.00	104+50.00			300.0		6.7						
104+50.00	105+00.00			300.0		3.2						
105+00.00	105+30.40	1.0		152.4				2.0		1.0	1.0	
BRIDGE												
106+01.60	106+75.00	1.0	2.0	284.8				2.0	4.0	1.0	1.0	2.0
106+75.00	107+50.00			293.6						1.0		
107+50.00	108+08.70			300.0								
108+08.70	108+50.70			234.8								
108+50.70	109+00.00			164.8								
TOTAL		2.0	2.0	41.6	3086.2	167.7	50.4	42.1	4.0	4.0	2.0	2.0
ADJUSTED TOTAL		2.0	2.0	42.0	3,087.0	168.0	51.0	43.0	4.0	4.0	2.0	2.0

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

USER NAME = nparris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 12/15/2014	CHECKED - SBP	REVISED -
	DATE - 12/15/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO. 5 OF 6 SHEETS	STA.	TO STA.

F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 15
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				

WATER MAIN SCHEDULE

LOCATION	5610050	5610090	5610520	56109412	56109424	X5610662	Z0041900
	DUCTILE IRON WATER MAIN TEE, 12"x6"	WATER MAIN 12"	WATER VALVES, 12"	D.I.P. WATER MAIN FITTINGS 12" 22.5° BEND	D.I.P. WATER MAIN FITTINGS 12" 45° BEND	WATER MAIN TO BE ABANDANED, 12"	POLYETHYLENE ENCASUREMENT
	(EACH)	(FOOT)	(EACH)	(EACH)	(EACH)	(FOOT)	(FOOT)
SHEFFER ROAD							
100+00.00 100+44.00							
100+44.00 101+25.00							
101+25.00 102+00.00							
102+00.00 102+50.00							
102+50.00 103+00.00							
103+00.00 103+50.00							
103+50.00 104+00.00							
104+00.00 104+50.00	1.0	1.5	1.0		1	1	2
104+50.00 105+00.00		52.0			1	64	52
105+00.00 105+30.40		30.4				44	30
BRIDGE							
106+01.60 106+75.00		71.2	1.0	2.0	2	71	71
106+75.00 107+50.00		80.0				30	80
107+50.00 108+08.70							
108+08.70 108+50.70							
108+50.70 109+00.00							
TOTAL	1.0	235.1	2.0	2.0	4	210	235
ADJUSTED TOTAL	1	236	2	2	4	211	236

SEEDING SCHEDULE

LOCATION	25000210	25000312	25000400	25000600
	SEEDING, CLASS 2A	SEEDING, CLASS 4A	NITROGEN FERTILIZER NUTRIENT (SEE NOTE)	POTASSIUM FERTILIZER NUTRIENT (SEE NOTE)
	(ACRE)	(ACRE)	(POUND)	(POUND)
SHEFFER ROAD				
100+00.00 100+44.00	0.001		0.1	0.1
100+44.00 101+25.00	0.038		3.4	3.4
101+25.00 102+00.00	0.033		3.0	3.0
102+00.00 102+50.00	0.033		2.9	2.9
102+50.00 103+00.00	0.027		2.4	2.4
103+00.00 103+50.00	0.018		1.7	1.7
103+50.00 104+00.00	0.037		3.4	3.4
104+00.00 104+50.00	0.038		3.4	3.4
104+50.00 105+00.00	0.021	0.019	1.8	1.8
105+00.00 105+30.40		0.024		
BRIDGE				
106+01.60 106+75.00	0.041	0.014	3.7	3.7
106+75.00 107+50.00	0.076	0.024	6.9	6.9
107+50.00 108+08.70	0.063		5.7	5.7
108+08.70 108+50.70	0.033		3.0	3.0
108+50.70 109+00.00	0.039		3.5	3.5
TOTAL	0.497	0.081	44.80	44.80
ADJUSTED TOTAL	0.50	0.25	45.00	45.00

NOTE: ONLY CLASS 2A SEED REQUIRES FERTILIZER NUTRIENTS

EROSION CONTROL SCHEDULE

LOCATION	25100630	28000250	28000305	28000400	28000500	28000510	28001100	28100105	28100107	28200200
	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING (SEE NOTE)	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	INLET FILTERS	TEMPORARY EROSION CONTROL BLANKET	STONE RIPRAP, CLASS A3	STONE RIPRAP, CLASS A4	FILTER FABRIC
	(SQ YD)	(POUND)	(FOOT)	(FOOT)	(EACH)	(EACH)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)
SHEFFER ROAD										
100+00.00 100+44.00	6.50	0.50					6.50			
100+44.00 101+25.00	182.80	15.10					182.80			
101+25.00 102+00.00	158.90	13.10		13.50			158.90			
102+00.00 102+50.00	157.80	13.00		66.60		2.00	157.80			
102+50.00 103+00.00	131.00	10.80				1.00	131.00			
103+00.00 103+50.00	88.90	7.40	20.0	69.40		1.00	88.90			
103+50.00 104+00.00	181.10	15.00		50.00			181.10			
104+00.00 104+50.00	183.00	15.10	20.0	50.00		1.00	183.00			
104+50.00 105+00.00	189.70	15.70		68.90		5.00	189.70			
105+00.00 105+30.40	117.70	9.70		60.80			117.70			
BRIDGE										
106+01.60 106+75.00	66.70	5.50		49.80			66.70		90.60	90.60
106+75.00 107+50.00	312.60	25.80	20.0	135.90	1.00		312.60	2.70		2.70
107+50.00 108+08.70	368.60	30.50	10.0	138.00	1.00		368.60	2.70		2.70
108+08.70 108+50.70	306.40	25.30	10.0	111.40			306.40	5.30		5.30
108+50.70 109+00.00	159.40	13.20		64.60	2.00		159.40			
	189.80	15.70		59.90			189.80			
MAINTENANCE										
	200.00		20.0	100.00	2.00	2.00				
STRUCTURAL										
								363.00		363.00
TOTAL	3000.90	231.40	100.00	1038.80	6.00	12.00	2800.90	10.70	453.60	464.30
ADJUSTED TOTAL	3001.0	232.0	100.0	1039.0	6.0	12.0	2801.0	11.0	454.0	465.0

NOTE: CALCULATIONS BASED ON 4 APPLICATIONS TO ALL SEEDING AREAS

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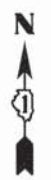
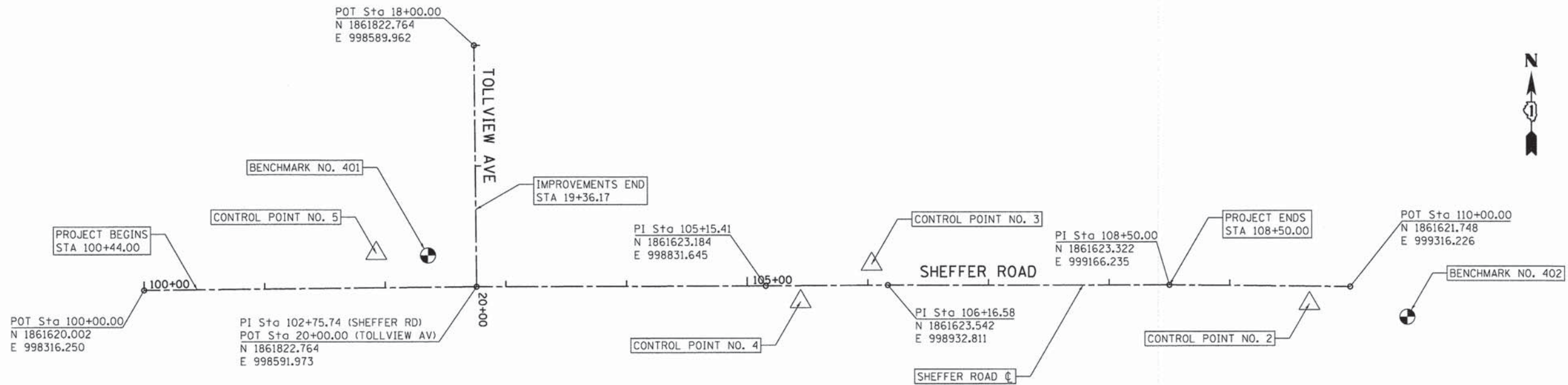


USER NAME = nperris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 12/15/2014	CHECKED - SBP	REVISED -
	DATE - 12/15/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES	
SCALE:	SHEET NO. 6 OF 6 SHEETS STA. TO STA.

F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 16
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				



REFERENCE MARK

CITY OF AURORA CONTROL MONUMENT #20 SOUTH BRASS DISK LOCATED AT THE SOUTHWEST CORNER OF INDIAN TRAIL ROAD AND FARNSWORTH AVE, APPROXIMATELY 1 FOOT SOUTH AND 1 FOOT EAST OF KEY OF WALK. NORTHING 1863244.718 EASTING 998250.965 ELEVATION 709.91

LEGEND

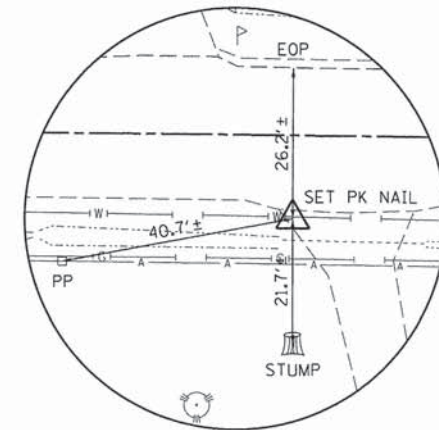
- = BENCH MARK LOCATION
- = HORIZONTAL CONTROL POINT LOCATION

HORIZONTAL CONTROL POINTS

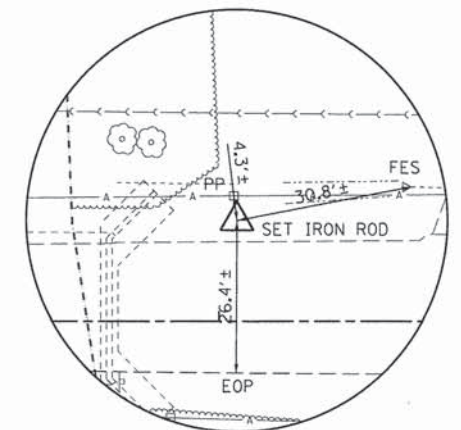
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
2	1861607.551	999282.398	706.100	PR_SHEFFER	109+66.32	14.552' RT	SET PK NAIL
3	1861640.929	998919.366	697.740	PR_SHEFFER	106+03.19	17.434' LT	SET IRON ROD
4	1861610.052	998860.483	698.330	PR_SHEFFER	105+44.20	13.234' RT	SET IRON ROD
5	1861650.440	998508.810	706.090	PR_SHEFFER	101+92.86	28.500' LT	SET IRON ROD

BENCH MARKS (NAVD 88)

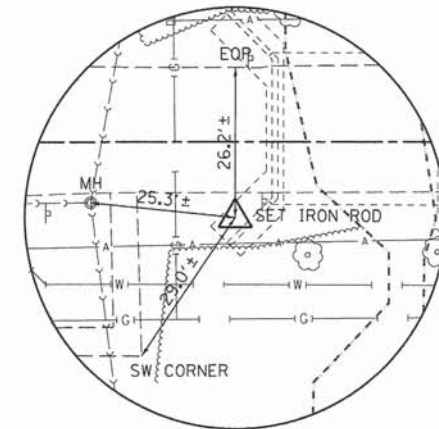
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
401	1861648.656	998551.708	706.231	PR_SHEFFER	102+35.73	26.285' LT	NE FLANGE BOLT ON FIRE HYDRANT
402	1861596.709	999363.626	707.885	N/A	N/A	N/A	SE FLANGE BOLT ON FIRE HYDRANT



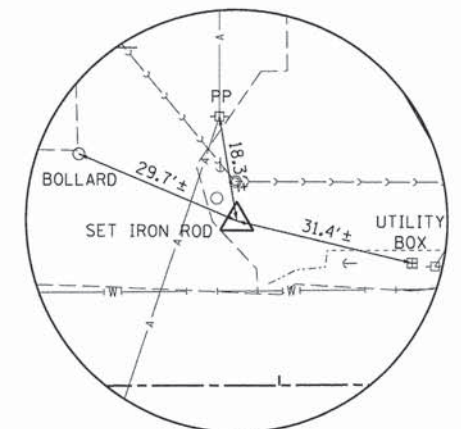
HORIZONTAL CONTROL POINT NO. 2



HORIZONTAL CONTROL POINT NO. 3



HORIZONTAL CONTROL POINT NO. 4



HORIZONTAL CONTROL POINT NO. 5

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USER NAME = nporris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1/50	DRAWN - NDP	REVISED -
PLOT DATE = 12/12/2014	CHECKED - SBP	REVISED -
	DATE - 12/15/2014	REVISED -













**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES & BENCHMARKS

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

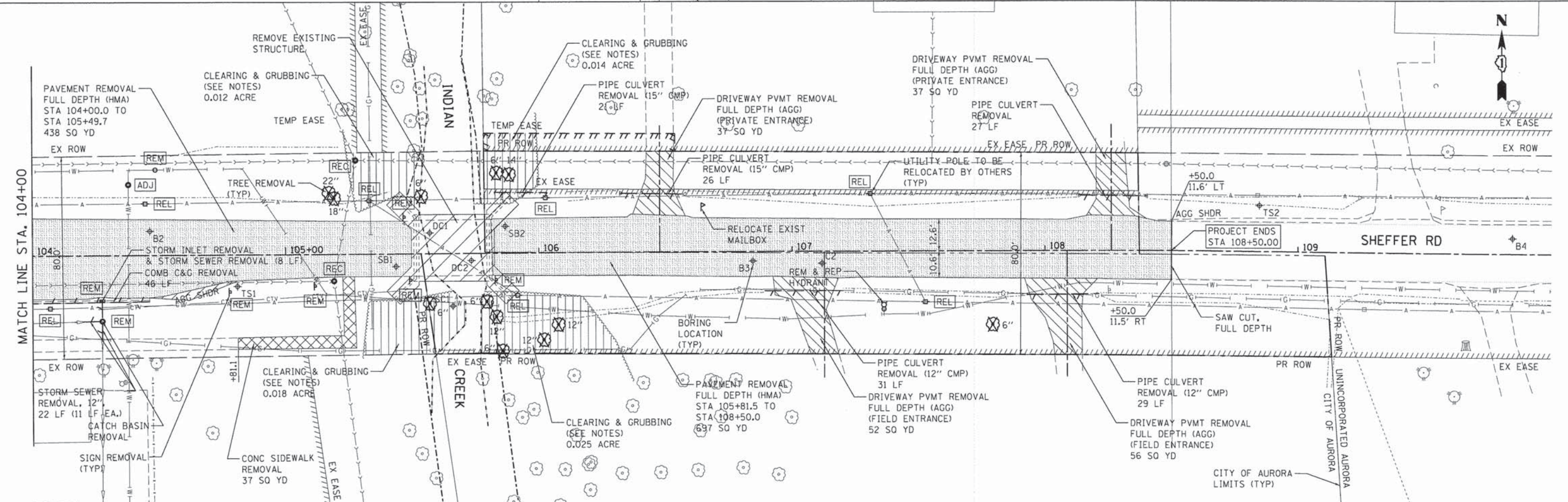
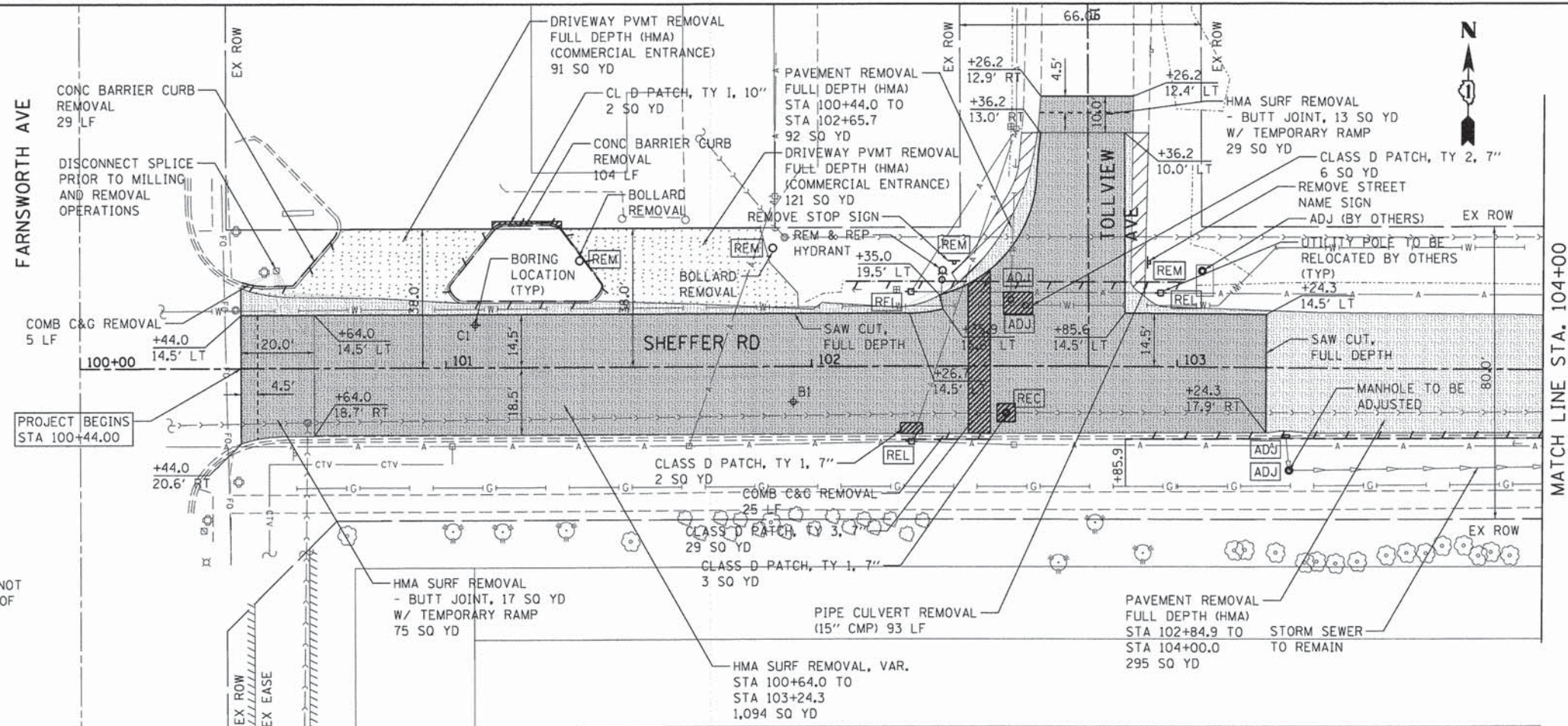
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	17
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				

LEGEND

-  PAVEMENT REMOVAL, FULL DEPTH
-  HMA SURFACE REMOVAL, VARIABLE DEPTH
-  DRIVEWAY PAVEMENT REMOVAL FULL DEPTH (HMA)
-  DRIVEWAY PAVEMENT REMOVAL FULL DEPTH (AGG)
-  CONCRETE SIDEWALK REMOVAL
-  AGGREGATE SHOULDER REMOVAL (INCLUDED IN EARTH EXCAVATION)
-  LINEAR ITEM REMOVAL AS SPECIFIED
-  SIGN REMOVAL
-  UTILITY POLE RELOCATE (BY OTHERS-SEE UTILITY PLANS)
-  UTILITY REMOVAL, ADJUSTMENT OR RECONSTRUCT
-  TREE REMOVAL
-  CLEARING & GRUBBING (SEE NOTES)

NOTES

1. CLEARING & GRUBBING, PER SEC. 201 OF THE STANDARD SPECIFICATIONS, SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF TREE REMOVAL.
2. SEE UTILITY PLAN & PROFILE SHEETS FOR ALL UTILITY ADJUSTMENTS.



FILE NAME = W:\Projects\2013\10179_ShefferPvtNeeds\Civil\Drawn\ShefferRem_01.dwg

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





USER NAME = mbelwin	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 12/15/2014	CHECKED - SBP	REVISED -
	DATE - 12/15/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN		
SCALE: 1"=20'	SHEET NO. 1 OF 1 SHEETS	STA. 100+44.00 TO STA. 108+80.00

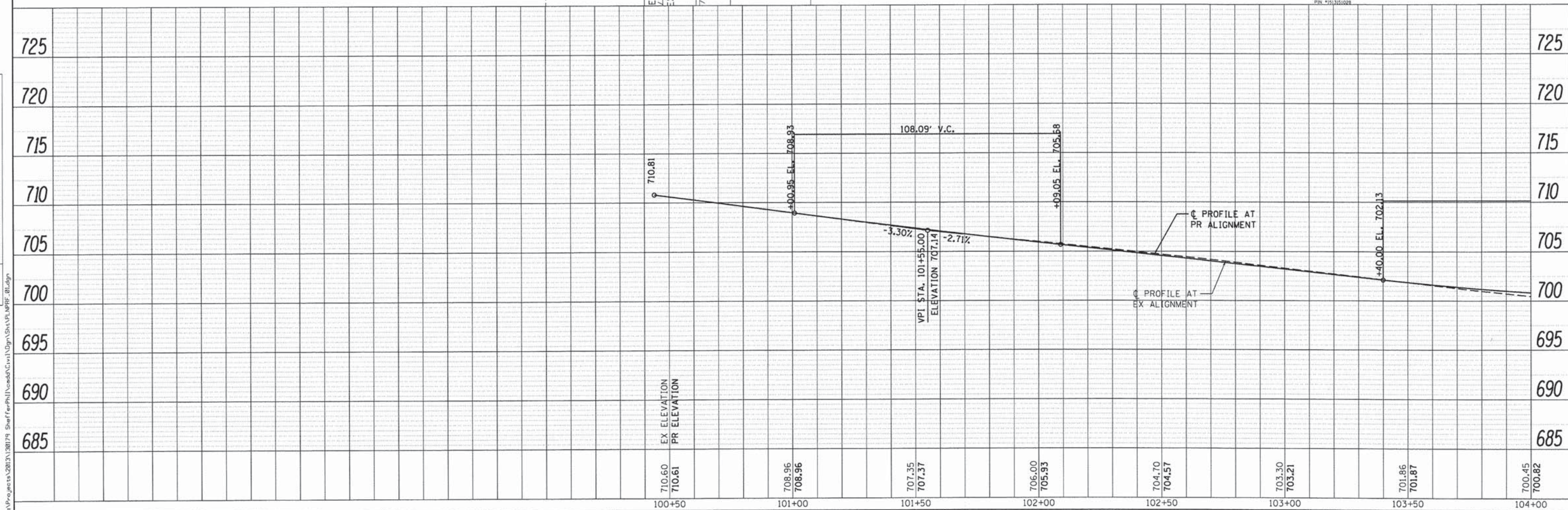
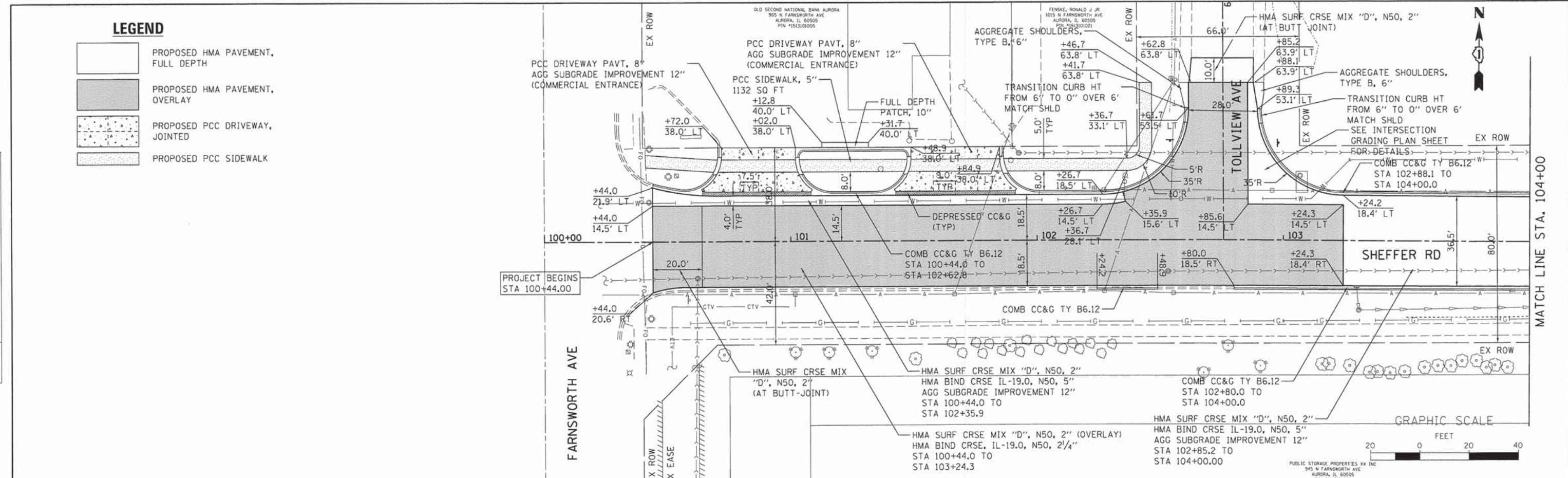
F.A.J. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 18
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				


LEGEND

-  PROPOSED HMA PAVEMENT, FULL DEPTH
-  PROPOSED HMA PAVEMENT, OVERLAY
-  PROPOSED PCC DRIVEWAY, JOINTED
-  PROPOSED PCC SIDEWALK

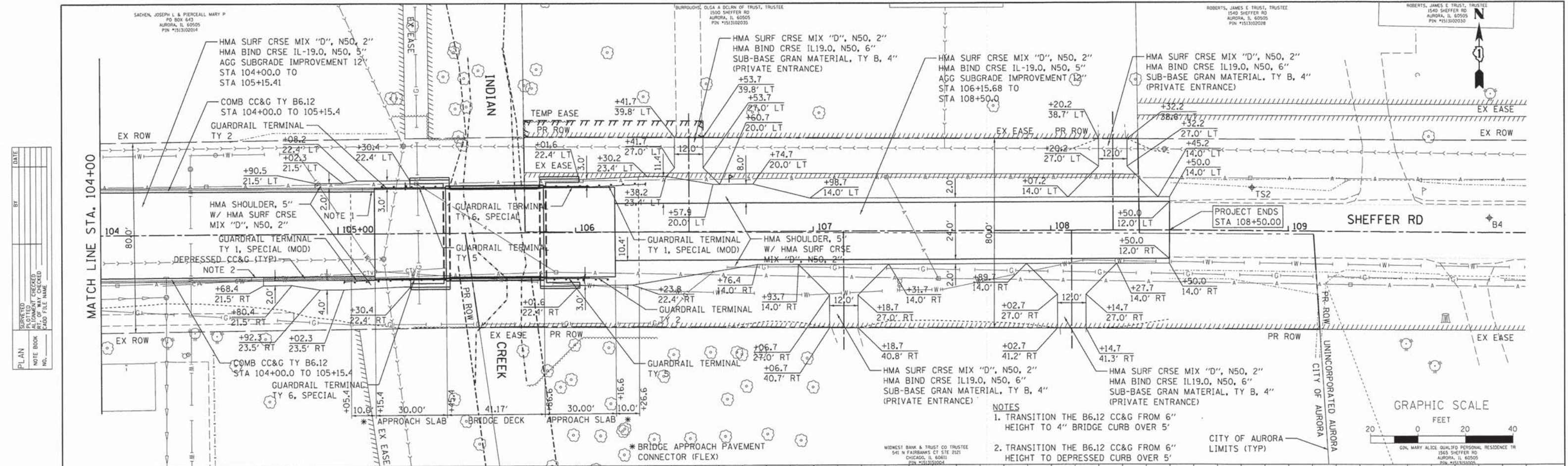
PLAN	SURVEYED	DATE
	ALIGNED	BY
	CHECKED	
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	FILE NAME	

PROFILE	SURVEYED	DATE
	GRADES	BY
	CHECKED	
	STRUCTURE	
	NOTATION	
	CHECKED	
	NO. _____	
	FILE NAME	



 WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174	USER NAME = nparris DESIGNED - MNB DRAWN - NDP CHECKED - SBP DATE - 12/15/2014	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. 100+44.00 TO STA. 104+00.00	F.A.U. RTE. 2421 SECTION 11-00298-00-BR COUNTY KANE TOTAL SHEETS 85 SHEET NO. 19 CONTRACT NO. 61B08
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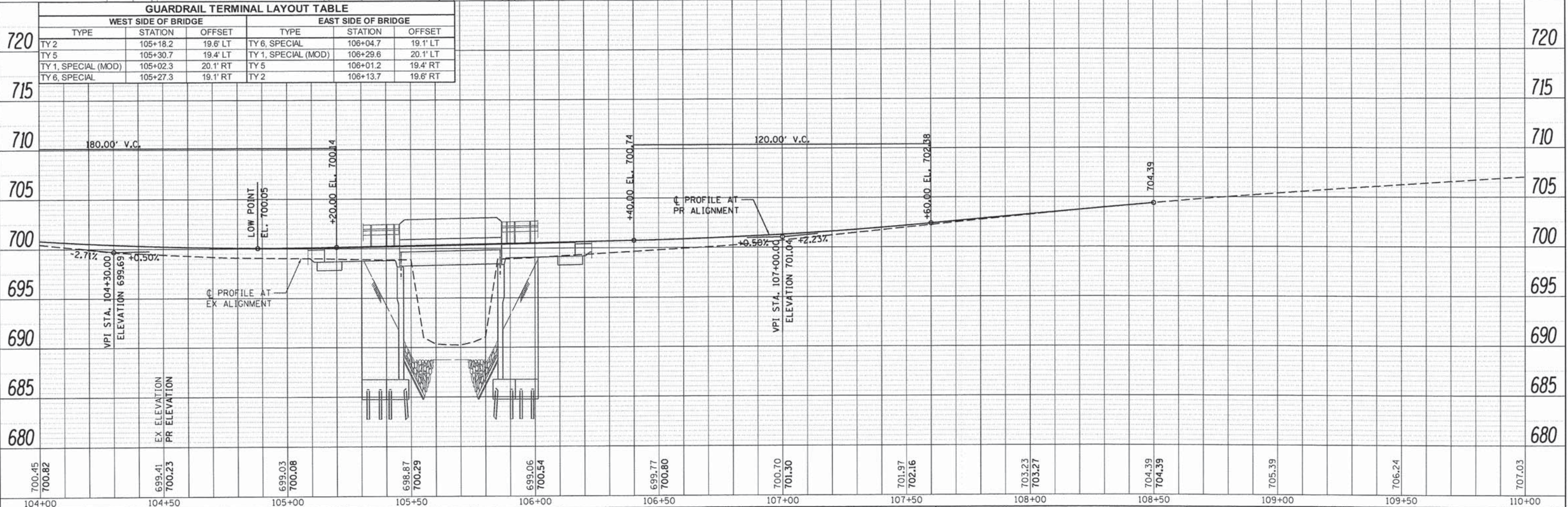
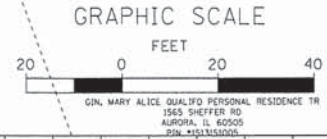


DATE	
BY	
REVIEWED	
APPROVED	
PLANNED	
NOTED	
STRUCTURE	
NOTATION	
CHKD	
NO.	

DATE	
BY	
REVIEWED	
APPROVED	
PLANNED	
NOTED	
STRUCTURE	
NOTATION	
CHKD	
NO.	

GUARDRAIL TERMINAL LAYOUT TABLE					
WEST SIDE OF BRIDGE			EAST SIDE OF BRIDGE		
TYPE	STATION	OFFSET	TYPE	STATION	OFFSET
TY 2	105+18.2	19.6' LT	TY 6, SPECIAL	106+04.7	19.1' LT
TY 5	105+30.7	19.4' LT	TY 1, SPECIAL (MOD)	106+29.6	20.1' LT
TY 1, SPECIAL (MOD)	105+02.3	20.1' RT	TY 5	106+01.2	19.4' RT
TY 6, SPECIAL	105+27.3	19.1' RT	TY 2	106+13.7	19.6' RT

- NOTES**
1. TRANSITION THE B6.12 CC&G FROM 6" HEIGHT TO 4" BRIDGE CURB OVER 5'
 2. TRANSITION THE B6.12 CC&G FROM 6" HEIGHT TO DEPRESSED CURB OVER 5'



104+00	104+50	105+00	105+50	106+00	106+50	107+00	107+50	108+00	108+50	109+00	109+50	110+00										
700.45	700.82	699.41	700.23	699.03	700.08	698.87	700.29	699.06	700.54	699.77	700.80	700.70	701.30	701.97	702.16	703.23	703.27	704.39	704.39	705.39	706.24	707.03

WILLS BURKE KELSEY ASSOCIATES LTD.
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USER NAME = nperris	DESIGNED - MNB	REVISED -
PLLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLLOT DATE = 12/12/2014	CHECKED - SBP	REVISED -
	DATE = 12/15/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE

SCALE: 1"=20' SHEET NO. 2 OF 2 SHEETS STA. 104+00.00 TO STA. 108+80.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	20
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				

MAINTENANCE OF TRAFFIC GENERAL NOTES:

1. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS TO FIELD ENTRANCES. THE TEMPORARY CLOSURE OF FIELD ENTRANCES WILL BE LIMITED TO THE DURATION OF THE CONSTRUCTION DIRECTLY IN FRONT OF THE ENTRANCE. IN THE EVENT THAT THE PLANTING SEASON IS COMPLETE AND ACCESS TO THE FIELD(S) ARE NOT REQUIRED, THIS ITEM MAY BE OMITTED WITH THE APPROVAL OF THE ENGINEER. OTHERWISE THE ENTRANCE(S) SHALL BE OPEN AT THE END OF THE WORK DAY OR AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL COORDINATE CLOSURES WITH THE ENGINEER AND PROPERTY OWNER A MINIMUM OF SEVEN (7) DAYS IN ADVANCE OF THE CLOSURE.
2. AGGREGATE SURFACE FOR TEMPORARY ACCESS WILL BE MEASURED FOR PAYMENT FOR EACH FIELD ENTRANCE CONSTRUCTED FOR THE PURPOSE OF TEMPORARY ACCESS. TEMPORARY AGGREGATE SURFACE COURSE SHALL BE PAID FOR AT THE CONTRACT UNIT COST EACH FOR TEMPORARY ACCESS (PRIVATE ENTRANCE).
3. THE TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES, AS SPECIFIED BY THE SPECIAL PROVISIONS, SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL PROVISIONS, SHALL BE INCLUDED IN THE COST OF THE PAY ITEM TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

MILLING OPERATION NOTES:

1. CHANNELIZING DEVICES MAY BE PLACED AT THE DROP-OFF ELEVATION TO PRESERVE LANE WIDTH. RAISE THE RETROREFLECTIVE AREA AND WARNING LIGHT TO THE ELEVATION ABOVE THE TRAVELING LANE OR SHOULDER PROFILE PER HIGHWAY STANDARD 701901.
2. DURING FULL-DEPTH PAVEMENT WIDENING OPERATIONS, CHANNELIZING DEVICES SHALL BE SPACED AT 50' INTERVALS PER HIGHWAY STANDARD 701006.
3. AT LOCATIONS WHERE THE DIFFERENCE BETWEEN LANES IN VERTICAL LIFTS OR MILLED EDGE IS GREATER THAN 2 1/2" FOR MORE THAN 48 HOURS, A LONGITUDINAL HMA WEDGE SLOPED AT 1H:3V WILL BE REQUIRED. THE CONTRACTOR SHALL PLACE "UNEVEN LANE SIGNS" 100' PRIOR TO THIS LOCATION. COST OF THE LONGITUDINAL HMA WEDGE SHALL BE INCLUDED IN THE UNIT COST OF HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH, AND SHALL NOT BE PAID FOR SEPARATELY. THE UNEVEN LANE SIGNS SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL). IF THE DIFFERENCE IN LIFTS/MILLING IS BETWEEN 2 1/2" AND 4" FOR LESS THAN 48 HOURS, THE LONGITUDINAL WEDGE WILL NOT BE REQUIRED.
4. IF THE VERTICAL DIFFERENCE BETWEEN LANES IS GREATER THAN 4", THE LANE WILL NEED TO BE TEMPORARILY CLOSED UNTIL IT IS REDUCED TO 4" OR LESS.
5. TEMPORARY RAMPS SHALL BE USED AT ALL ENTRANCES IN SERVICE DURING MILLING OPERATIONS, PAID AS TEMPORARY RAMP.

TEMPORARY DETOUR DURATION

THE CONTRACT DOCUMENTS WILL ALLOW THE ROADWAY CLOSURE AND TEMPORARY DETOUR DETAILED ON THIS SHEET TO REMAIN IN PLACE UNTIL SEPTEMBER 21, 2015. THE CONTRACTOR WILL BE EXPECTED TO COMPLETE ALL THE PROPOSED WORK RELATED TO THE CONSTRUCTION OF THE PROPOSED BRIDGE AND ROADWAY DURING THIS CLOSURE. THE ROADWAY MUST HAVE THE HMA SURFACE COURSE PLACED AND THE GUARDRAIL INSTALLED BEFORE THE ROADWAY IS OPENED TO TRAFFIC. IF THE SURFACE COURSE AND GUARDRAIL ARE NOT COMPLETED IN THE ALLOWED TIME, ADDITIONAL TRAFFIC CONTROL DEVICES REQUIRED FOR THE COMPLETION OF REMAINING CONSTRUCTION OPERATIONS WILL BE AT THE CONTRACTOR'S EXPENSE.

CHANGEABLE MESSAGE SIGN

THE CONTRACTOR SHALL PLACE ELECTRONIC CHANGEABLE MESSAGE SIGNS ON THE EAST AND WEST SIDES OF THE PROJECT TO WARN THE PUBLIC OF THE PENDING CLOSURE. THE MESSAGE BOARDS WILL NEED TO BE PLACED AND SET OUT FOR SEVEN (7) DAYS IN ADVANCE OF THE ANTICIPATED FIRST DAY OF CONSTRUCTION. THE SIGNS SHALL REMAIN IN PLACE FOR AN ADDITIONAL SEVEN (7) AFTER THE FIRST DAY OF CONSTRUCTION. THE CONTRACTOR WILL COORDINATE WITH THE ENGINEER ON THE EXACT PLACEMENT OF THE MESSAGE BOARDS AND THE MESSAGE THAT IS TO BE DISPLAYED. THE MESSAGE MAY PERIODICALLY BE CHANGED BY THE COUNTY AND/OR ENGINEER. THERE WILL BE NO ADDITIONAL COMPENSATION FOR CHANGING OF THE MESSAGE(S). THE MESSAGE BOARDS WILL BE PAID FOR AS CHANGEABLE MESSAGE SIGN, SPECIAL PER CALENDAR DAY FOR EACH MESSAGE SIGN UTILIZED.

TEMPORARY INFORMATION SIGN

THE CONTRACTOR SHALL ERECT ON THE EAST AND WEST SIDE OF THE PROJECT TO INFORM THE PUBLIC OF THE CONSTRUCTION DURATION. THE CONTRACTOR WILL COORDINATE WITH THE ENGINEER ON THE EXACT PLACEMENT OF THE SIGN. THE SIGN SHALL BE IN PLACE FOR THE ENTIRE DURATION OF THE CONTRACT OR AS DIRECTED BY THE ENGINEER. THE TEMPORARY SIGN WILL BE AS DIMENSIONED ON STD. TC22 EXCEPT THE MESSAGE SHALL BE AS DETAILED ON THE DETOUR PLAN. THE SIGNING, WHICH INCLUDES POST AND MOUNTING, WILL BE PAID AS TEMPORARY INFORMATION SIGNING, PER SQ FT FOR EACH SIGN ERECTED.

CONTACTS

THE CONTRACTOR WILL BE REQUIRED TO COORDINATE ALL MAINTENANCE OF TRAFFIC OPERATIONS WITH ALL MUNICIPALITIES, TOWNSHIP, AND COUNTY ENTITIES WITHIN THE PROJECT LIMITS. THE FOLLOWING IS THE APPLICABLE LIST OF CONTACTS:

KANE COUNTY DIVISION OF TRANSPORTATION	DAVE BOESCH, CHIEF OF CNSTR.	630-584-1170
KANE COUNTY SHERIFF	PATRICK PEREZ, SHERIFF	630-232-6840
KANE CO. OFFICE OF EMERGENCY MANAGEMENT	DONALD BRYANT, DIRECTOR	630-232-5985
CITY OF AURORA PUBLIC WORKS	KEN SCHROTH, DIRECTOR	630-256-3200
CITY OF AURORA POLICE DEPARTMENT	GREGORY S. THOMAS, CHIEF OF POLICE	630-256-5001
CITY OF AURORA FIRE DEPARTMENT	JOHN LEHMAN, FIRE CHIEF	630-256-4000
AURORA EAST SCHOOL DISTRICT 131	MICHAEL POPP, SUPERINTENDENT	630-299-5510
MARYWOOD FIRE PROTECTION DISTRICT	ROBERT WATERMAN	630-898-2421

LIMITATIONS OF CONSTRUCTION

THE CONTRACTOR SHALL COORDINATE THE ITEMS OF WORK IN ORDER TO KEEP HAZARDS AND TRAFFIC INCONVENIENCES TO A MINIMUM, AS SPECIFIED BELOW:

1. IF THERE ARE CONSTRUCTION OPERATIONS COMPLETED OUTSIDE OF THE DURATION OF THE ROADWAY CLOSURE, THOSE CONSTRUCTION OPERATIONS WILL BE CONDUCTED SO ONE LANE IN EACH DIRECTION ON SHEFFER ROAD REMAIN OPEN AT ALL TIMES.
2. THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN ALL THE NECESSARY SIGNS, BARRICADES, CONES, DRUMS, AND LIGHTS FOR THE WARNING AND PROTECTION OF TRAFFIC, AS REQUIRED BY SECTIONS 107 AND 701 THROUGH 703 OF THE STANDARD SPECIFICATIONS, AND AS MODIFIED.
3. THE CONTRACTOR SHALL FURNISH AND ERECT "ROAD CONSTRUCTION AHEAD" SIGNS (W20-1 (0)-48) AT BOTH ENDS OF THE PROJECT AND AT ALL SIDE ROADS WITHIN THE LIMITS OF THIS SECTION WHEN WORKING IN THE VICINITY OF THE SIDE ROAD INTERSECTION, AS DETAILED IN TC-10.

OFF- PEAK HOURS

FOR CONSTRUCTION OPERATIONS OUTSIDE THE DESIGNATED DETOUR PERIOD, THE "OFF- PEAK" HOURS ARE DEFINED AS THE DAYTIME HOURS FROM 9:00 A.M. TO 3:00 P.M. AND NIGHT TIME HOURS FROM 9:00 P.M. TO 6:00 A.M., MONDAY THROUGH FRIDAY. THE CONTRACTOR MAY REQUEST IN WRITING FOR THESE HOURS TO BE EXTENDED.

KEEPING ROADS OPEN TO TRAFFIC

THE CONTRACTOR SHALL SCHEDULE HIS SEQUENCE OF OPERATIONS TO PERMIT THE CONSTRUCTION OF THIS SECTION WITH THE LEAST INCONVENIENCE TO THE TRAVELING PUBLIC. THE CONTRACTOR'S SCHEDULE SHALL REFLECT THE FOLLOWING REQUIREMENTS AND SEQUENCE OF CONSTRUCTION. THESE REQUIREMENTS FOLLOW THE SUGGESTED TRAFFIC CONTROL PLAN INCLUDED IN THE DRAWINGS.

1. SHEFFER ROAD MAY BE COMPLETELY CLOSED TO TRAFFIC FOR THE DURATION SPECIFIED IN THE CONTRACT DOCUMENTS, FROM EAST OF TOLLVIEW AVENUE TO WEST OF THE PRIVATE ENTRANCE IMMEDIATELY EAST OF THE BRIDGE.
2. ACCESS TO PRIVATE AND COMMERCIAL ENTRANCES SHALL REMAIN OPEN AT ALL TIMES. ON PROPERTIES THAT HAVE MORE THAN ONE ACCESS, ONE ENTRANCE MAY BE TEMPORARILY CLOSED. HOWEVER, VEHICULAR ACCESS MUST REMAIN OPEN TO TRAFFIC FOR THE OPPOSITE ENTRANCE. WHEN IT IS NECESSARY TO CLOSE AN ENTRANCE, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND THE PROPERTY OWNER FORTY-EIGHT (48) HOURS IN ADVANCE OF THE WORK. IN ALL CASES, THE ENTRANCE SHALL BE OPEN AT THE END OF THE WORKDAY.

TRAILER MOUNTED ARROW BOARD

UNLESS OTHERWISE REQUIRED BY A SPECIFIED TRAFFIC CONTROL STANDARD, THE USE OF A TRAILER MOUNTED ARROW BOARD(S) ARE NOT ANTICIPATED FOR THIS PROJECT.

SEQUENCE OF CONSTRUCTION

IN GENERAL, THE STAGING OF CONSTRUCTION FOR THIS SECTION SHALL BE AS FOLLOWS:

STAGE 1 - DETOUR FOR BRIDGE CONSTRUCTION

NOTES: THE KANE-DUPAGE STORMWATER CONSERVATION DISTRICT SHALL BE PRESENT FOR ALL WORK WITHIN THE WATERWAY

- SET-UP DETOUR FOR SHEFFER ROAD
- REMOVE THE EXISTING BRIDGE STRUCTURE AND TREES AT LOCATIONS SHOWN IN PLANS
- INSTALL THE PROPOSED COFFERDAMS
- EXCAVATE AND CONSTRUCT THE PROPOSED ABUTMENTS, INCLUDING FOUNDATIONS AND CORRESPONDING WINGWALLS
- REMOVE THE COFFERDAMS
- INSTALL RIPRAP FOR BRIDGE AND FINALIZE CHANNEL GRADING
- INSTALL THE BRIDGE DECK BEAMS
- BUILD THE PARAPET WALLS AND BRIDGE WEARING SURFACE
- REMOVE THE EXISTING PAVEMENT, CURBS AND GUTTERS
- GRADE EARTHWORK TO FINAL ELEVATION, INCLUDING ALL DITCH WORK
- INSTALL 12" WATER MAIN AND COMPONENTS AS SHOWN IN THE PLANS
- INSTALL STORM SEWERS, CULVERT PIPES AND DRAINAGE STRUCTURES
- PLACE AGGREGATE SUBGRADE IMPROVEMENT 12", INCLUDING AGGREGATE FOR TEMPORARY ACCESS AT RESIDENTIAL DRIVEWAY
- ADJUST STRUCTURES AND RIMS TO PROPOSED ELEVATION
- INSTALL CURB AND GUTTER
- PLACE HOT-MIX ASPHALT BINDER COURSES AND HMA SHOULDERS
- INSTALL PROPOSED DRIVEWAYS
- CONNECT GUARDRAIL TERMINALS TO BRIDGE PARAPET AND INSTALL GUARDRAIL IN HMA SHOULDER

STAGE 2 - DAY-TIME OPERATIONS FOR WEST LIMIT RESURFACING

NOTES: THE DETOUR FOR THE BRIDGE SHALL BE MAINTAINED UNTIL THE COMPLETION OF STAGE 2. IMPROVEMENTS AT THE WESTERN PROJECT LIMITS SHALL BE COMPLETED 1-LANE AT A TIME WHILE USING DAY ONLY LANE CLOSURES. ANY NIGHT TIME WORK SHALL REQUIRE APPROVAL OF THE ENGINEER AND THE CITY OF AURORA. AT LEAST 1-LANE OF TRAFFIC SHALL BE MAINTAINED IN EACH DIRECTION DURING STAGING OPERATIONS WITHIN 100 FT OF THE INTERSECTION AT FARNSWORTH AVENUE, UNLESS APPROVED BY THE ENGINEER.

- REMOVE CURB AND GUTTER AND FULL-DEPTH PAVEMENT AT LOCATIONS INDICATED
- INSTALL PROPOSED STORM SEWER, DRAINAGE STRUCTURES, AND END SECTIONS
- PLACE ALL FULL-DEPTH PATCHES
- PERFORM VARIABLE DEPTH MILLING OF EXISTING PAVEMENT AND BUTT JOINTS
- INSTALL CURB AND GUTTER AND SIDEWALK
- PLACE HOT-MIX ASPHALT BINDER COURSES
- PLACE HOT-MIX ASPHALT SURFACE COURSES THROUGHOUT ENTIRE PROJECT LIMITS
- FINALIZE ALL GRADING AND STRUCTURE ADJUSTMENTS
- PLACE FINAL PAVEMENT MARKINGS AND SIGNAGE
- REMOVE THE DETOUR (SIGNIFIES END OF STAGE)

STAGE 3 - LANDSCAPING AND PUNCHLIST ITEMS

NOTES: THESE ITEMS CAN ALL BE COMPLETED AS PART OF STAGE 2.

- FINALIZE ALL LANDSCAPING ITEMS, INCLUDING PLANTING OF TREES
- REMOVE ANY REMAINING TEMPORARY EROSION CONTROL ITEMS
- FINALIZE ANY REMAINING PUNCHLIST ITEMS

** IF CONTRACTOR ELECTS TO COMPLETE PERMANENT PAVEMENT MARKING OUTSIDE OF THE CLOSURE PERIOD, THEN THE CONTRACTOR SHALL PLACE THE APPROPRIATE TEMPORARY PAVEMENT MARKINGS. ALL TEMPORARY MARKINGS ON THE PERMANENT SURFACES SHALL BE TAPE. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THE TEMPORARY PAVEMENT MARKINGS.

FILE NAME = W:\Projects\2013\138179_ShefferPMT\ascd\civil\Drawn\UTOUR.dwg



USER NAME = mbaldwin	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:10	DRAWN - NDP	REVISED -
PLOT DATE = 2/10/2015	CHECKED - SBP	REVISED -
	DATE - 12/15/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

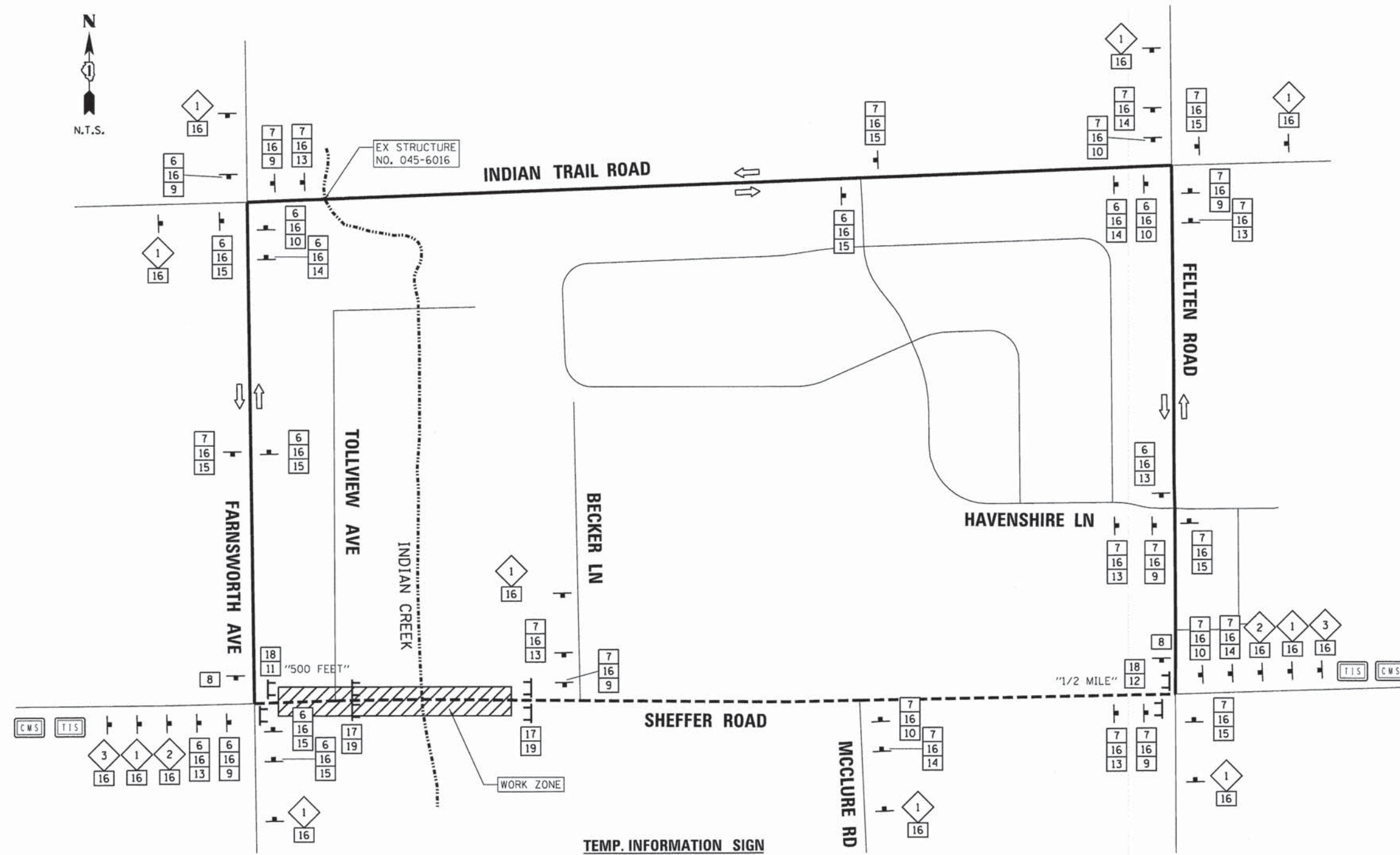
**MAINTENANCE OF TRAFFIC
SHEFFER ROAD DETOUR NOTES**

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	21
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF DETOUR SIGNS

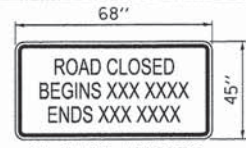
SIGN NO.	SIGN	MUTCD CODE-SIZE
1	DETOUR AHEAD	W20-2-4848
2	DETOUR 500 FT	W20-2-4848
3	ROAD CLOSED AHEAD	W20-3(O)-4848
4	ROAD CLOSED 500 FT	W20-3(O)-4848
5	ROAD CLOSED 1000 FT	W20-3(O)-4848
6	EAST	M3-2(O)-2412
4	WEST	M3-4(O)-2412
5	END DETOUR	M4-8A-2418
9	DETOUR ←	M4-9 SERIES-3024
10	DETOUR →	M4-9 SERIES-3024
11	← DETOUR	M4-10L-4818
12	DETOUR →	M4-10R-4818
13	DETOUR ↶	M4-9 SERIES-3024
14	DETOUR ↷	M4-9 SERIES-3024
15	DETOUR ↑	M4-9 SERIES-3024
16	Sheffer Rd	D3-(O)3612-VAR 6" BLACK LETTERS ON ORANGE BACKGROUND
17	ROAD CLOSED	R11-2--4830
18	BRIDGE OUT X MILES AHEAD LOCAL TRAFFIC ONLY	R11-3B-6030
19	BRIDGE OUT	R11-2--4830
20	ROAD CLOSED TO THRU TRAFFIC	R11-4-6030



LEGEND

- TEMPORARY INFORMATION SIGN
- CHANGEABLE MESSAGE SIGN
- DETOUR ROUTE
- TYPE III BARRICADE WITH TYPE A FLASHER
- TYPE A FLASHER
- DETOUR SIGN ASSEMBLY WITH STREET NAME AND DIRECTION PLATES (NUMBER DENOTES TYPE)
- W20 SERIES SIGN (NUMBER DENOTES TYPE)
- OTHER SIGN (NUMBER DENOTES TYPE)

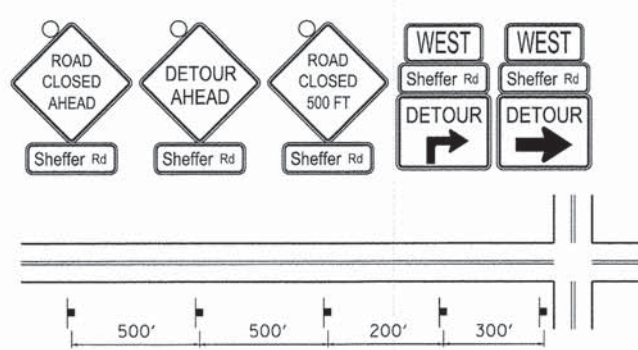
TEMP. INFORMATION SIGN



TYPICAL DETOUR SIGN ASSEMBLY



TYPICAL DETOUR SIGN SPACING



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PLOT DATE = 12/12/2014	CHECKED - SBP	REVISED -
	DATE - 12/15/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC SHEFFER ROAD DETOUR PLAN	
SCALE:	SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 22
CONTRACT NO. 61B08				
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

TEMPORARY DITCH CHECKS WILL BE REQUIRED AT THOSE LOCATIONS WHERE THE CONTRACTORS OPERATIONS REQUIRE TEMPORARY OR PERMANENT DITCHES. THE LOCATION OF TEMPORARY DITCH CHECKS ARE SHOWN ON THE PLANS. THE EXACT LOCATION MAY REQUIRE FIELD ADJUSTMENT AND WILL BE COORDINATED IN THE FIELD WITH THE ENGINEER. THE QUANTITIES INCLUDE A PLAN ALLOWANCE OF FIVE (5) ADDITIONAL TEMPORARY DITCH CHECKS FOR MAINTENANCE PURPOSES. TEMPORARY DITCH CHECKS SHALL BE CONSTRUCTED AS SPECIFIED IN SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

PERIMETER EROSION BARRIER (SILT FENCE)

PERIMETER EROSION CONTROL BARRIER (SILT FENCE) SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS. THE PERIMETER EROSION CONTROL BARRIER SHALL BE CONSTRUCTED AS DETAIL ON IDOT STANDARD 280001 AND AS SPECIFIED IN SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

STOCK PILE LOCATIONS AND PROTECTING STOCK PILE AREAS

STOCK PILES SHOULD NOT BE PLACED IN OR NEAR CRITICAL AREAS, OR AREAS THAT HAVE HIGH POTENTIAL FOR CONTRIBUTING SEDIMENTS TO STORMWATER FACILITIES.

CONTRACTOR MAY OPT TO STOCK PILE MATERIAL. STAGING OF THE PROJECT IS AT HIS DISCRETION OF THE CONTRACTOR AND COORDINATION OF STOCK PILES WILL BE WITH KANE COUNTY DIVISION OF TRANSPORTATION (KDOT) AND KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD). 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.

STABILIZED CONSTRUCTION AREA

STABILIZATION OF THE CONSTRUCTION AREA SHOULD TAKE PLACE AT THE END OF EACH WORK DAY.

WORK IN FLOWING WATER

NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN AND NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.

DEWATERING

WHEN DEWATERING THE CONSTRUCTION AREA IS NECESSARY, ALL WATERS SHALL BE FILTERED BY USING FILTER BAGS OR AN ALTERNATIVE MEASURE APPROVED BY THE KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT. ALL FILTER BAGS MUST HAVE SECONDARY CONTAINMENT DEVICES, AND SHOULD BE PLACED ON LEVEL GROUND. WATER MUST HAVE SEDIMENT REMOVED BEFORE BEING ALLOWED TO RETURN TO THE ORIGINAL CREEK. THE DISCHARGE SHALL BE DESIGNED SO THAT RETURNING WATERS DO NOT CAUSE EROSION. THE CONTRACTOR WILL COORDINATE THE METHOD, DESIGN AND LOCATION OF THE DEWATERING PLAN AND FILTER BAG(S) WITH KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT AT THE PRE-CONSTRUCTION MEETING.

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, LATEST EDITION.
- B) THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) 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 OWNER FOR REVIEW BY THE KDSWCD.
- E) THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE KDSWCD.
- F) DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES, STORMWATER STRUCTURES, OR INDIAN CREEK IS PROHIBITED.
- G) IT IS THE RESPONSIBILITY OF THE OWNER 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.

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

- A. CLASS 2A
- B. CLASS 4A
- C. INCREASE SEEDING RATES BY 25% WHEN DORMANT SEEDING (NOT ANTICIPATED)
- D. TEMPORARY SEEDING (PERENNIAL RYE GRASS, SPRING OATS)
- E. EROSION CONTROL BLANKET (EXCELSIOR) (PERMANENT SEED AREAS ONLY)

• IRRIGATION MAY BE NEEDED DURING JUNE AND JULY (INCLUDED IN SEEDING)

NOTE: SEEDING TO BE COMPLETED PER REQUIREMENTS OF SECTION 250 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGES AND THE SPECIAL PROVISIONS.

- H) WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN SEVEN (7) DAYS OF COMPLETION. WHERE WORK HAS TEMPORARILY CEASED FOR FOURTEEN (14) DAYS OR MORE, TEMPORARY STABILIZATION SHALL OCCUR BY THE SEVENTH DAY AFTER WORK HAS CEASED.
- I) THE CONTRACTOR IS RESPONSIBLE FOR INDICATING THE CURRENT LOCATION OF THE CONCRETE WASHOUT AND ANY MODIFICATIONS TO THE LOCATIONS OR DETAILS OF EROSION AND SEDIMENT CONTROLS ON THESE PLANS.

STABILIZED CONSTRUCTION ENTRANCE

A STABILIZED CONSTRUCTION ENTRANCE IS NOT ANTICIPATED FOR THIS PROJECT. HOWEVER, IF IT IS DETERMINED BY THE ENGINEER OR THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT THAT THE CONTRACTOR OPERATIONS REQUIRE A STABILIZED ENTRANCE, QUANTITY HAS BEEN INCLUDED IN THE PROJECT TO COMPLETE THIS WORK. THERE WILL BE NO ADJUSTMENT TO THE CONTRACT IF THE ENTRANCE IS NOT CONSTRUCTED. IF REQUIRED, THE CONTRACTOR WILL SUBMIT THE LOCATION AND DETAILS TO KDSWCD FOR APPROVAL.

CONSTRUCTION SEQUENCE NOTES

- A) TURBIDITY CURTAINS SHOULD BE PLACED IN THE CREEK PRIOR TO ANY DEMOLITION TO THE BRIDGE DECK AND/OR ABUTMENTS.
- B) CONSTRUCTION OF ABUTMENTS, EMBANKMENT AND RIP RAP ARE ANTICIPATED TO REQUIRE WORK WITHIN THE CREEK, WORK MUST BE TIMED TO TAKE PLACE DURING LOW FLOW CONDITIONS.
- C) 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 CREEK FLOW.
- 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 SEPARATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF THE RELATED WORK ITEM REQUIRING DEWATERING. DEWATERING WILL INCLUDE MEANS, METHODS AND ALL MATERIALS TO DEWATER AND TO PROVIDE FILTRATION OF WATERS BEFORE RE-ENTERING THE CREEK.

FILE NAME : \\snp-projects\2013\130179_Sharfer\Plan\cadd\Civil\02gn\ShARER_02.dgn



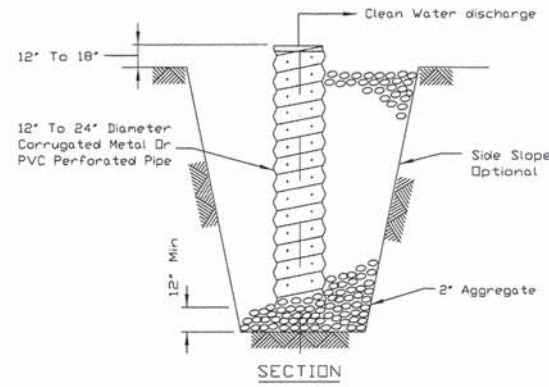
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PLOT DATE = 12/12/2014	CHECKED - SBP	REVISED -
	DATE - 12/15/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL
& SEEDING NOTES**

SCALE: SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	24
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				

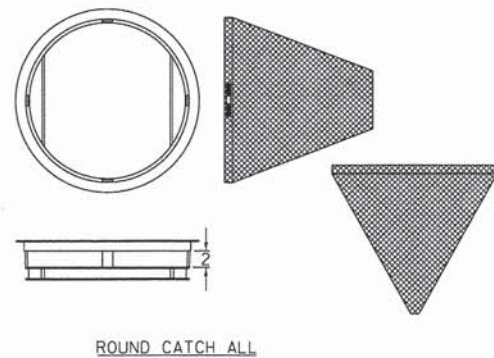


THE SUMP PIT WILL NOT BE MEASURED SEPERATELY FOR PAYMENT BUT SHALL BE CONSIDERED PART OF THE DEWATERING OPERATIONS.

NOTES:

1. PIT DIMENSIONS ARE OPTIONAL.
2. THE STANDPIPE WILL BE CONSTRUCTED BY PERFORATING A 12"-24" DIAMETER CORRUGATED METAL OR PVC PIPE.
3. A BASE OF 2" AGGREGATED WILL BE PLACED IN THE PIT TO A MINIMUM DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE WILL THEN BE BACKFILLED WITH 2" AGGREGATE.
4. THE STANDPIPE WILL EXTEND 12" TO 18" ABOVE THE LIP OF THE PIT.
5. IF DISCHARGE WILL BE PUMPED DIRECTLY TO A STORM DRAINAGE SYSTEM, THE STANDPIPE WILL BE WRAPPED WITH FILTER FABRIC BEFORE INSTALLATION.
6. IF DESIRED, 1/4"-1/2" HARDWARE CLOTH MAY BE PLACED AROUND THE STANDPIPE PRIOR TO ATTACHING THE FILTER FABRIC. THIS WILL INCREASE THE RATE OF WATER SEEPAGE INTO THE PIPE.

SUMP PIT PLAN
STD. IL-650
(SUMP PIT PLAN)

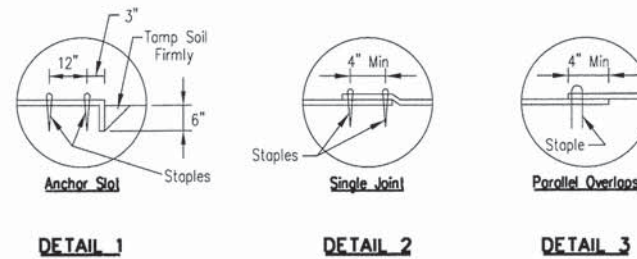
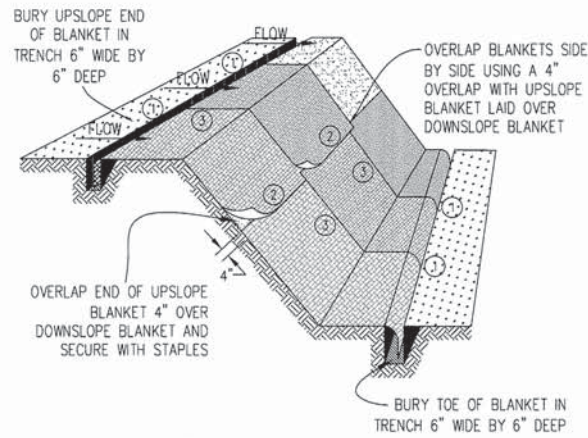


GENERAL NOTES

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.

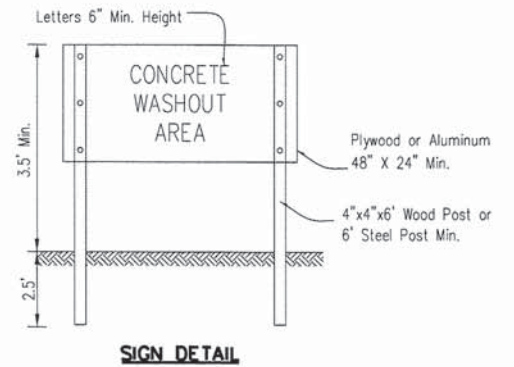
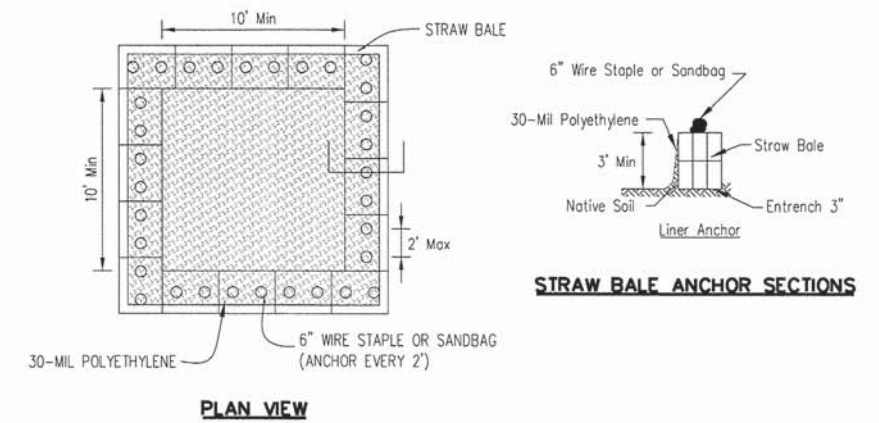
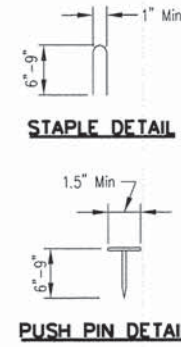
INLET PROTECTION DETAIL



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.

EROSION CONTROL BLANKET INSTALLATION DETAILS
STD. IL-530A, IL-530B, IUM-531
(EROSION CONTROL BLANKET)



NOTES:

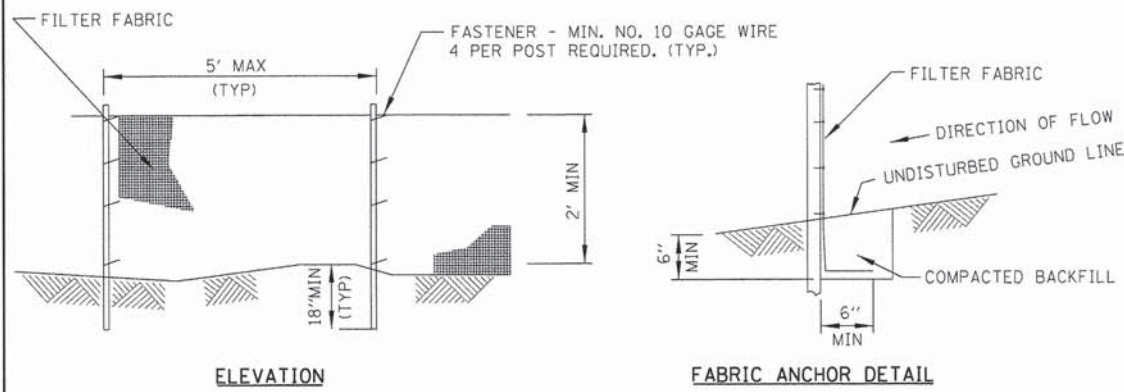
1. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND/OR SLURRY AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION.
2. FACILITY SHALL BE CLEANED OR RECONSTRUCTED IN A NEW AREA ONCE WASHOUT BECOMES TWO-THIRDS FULL.
3. EACH STRAW BALE IS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

TEMPORARY CONCRETE WASHOUT FACILITY - STRAW BALE
STD. IUM-654SB
(TEMPORARY CONCRETE WASHOUT)

FILE NAME: M:\Projects\2013\130179 - ShawFierPhl\Cadd\Civil\Ugrn\Shaw\ERD_03.dgn

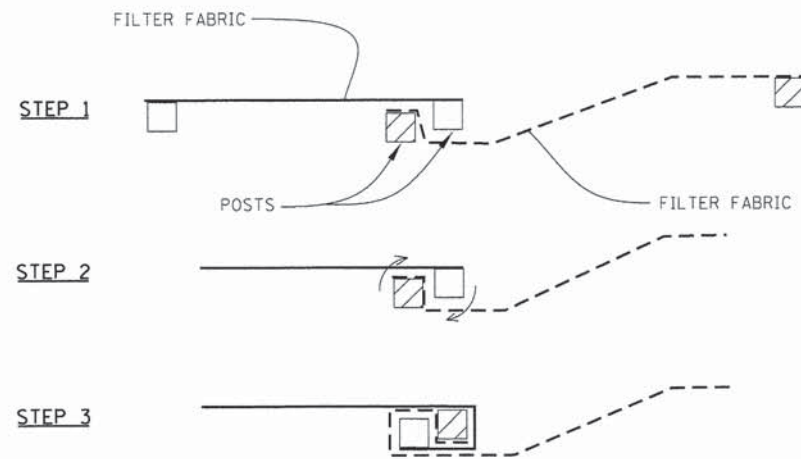
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	DATE - 12/15/2014	REVISED -

F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 25
CONTRACT NO. 61B08				ILLINOIS FED. AID PROJECT



- NOTES:
1. 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.
 2. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 40 FOR WOVEN.
 3. FENCE POSTS SHALL BE EITHER STANDARD STEEL POST OR WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 3.0 SQ. IN.

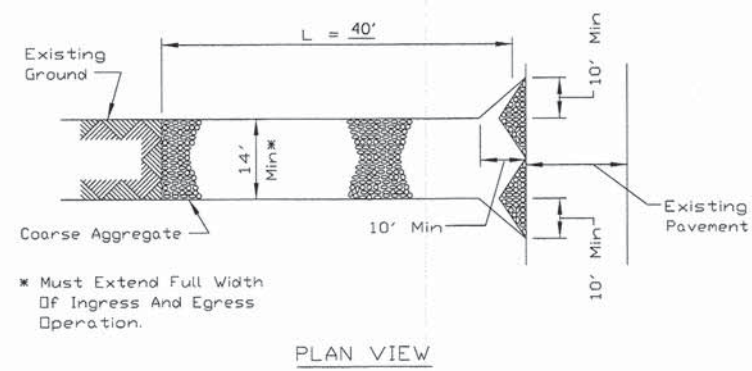
**PERIMETER EROSION BARRIER
(SILT FENCE)**
STD. IUM-620A
(SILT FENCE PLAN)



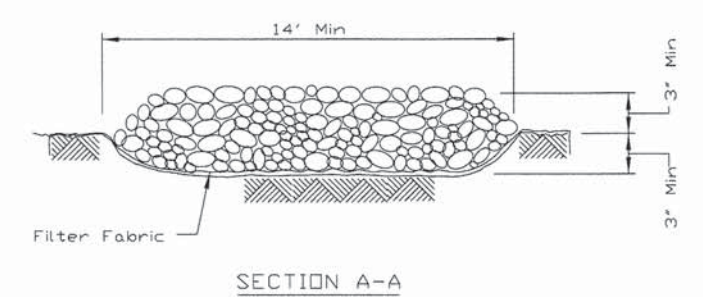
ATTACHING TWO SILT FENCES

- NOTES:
1. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.
 2. ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.
 3. CUT THE FABRIC NEAR THE BOTTOM OF THE STAKES TO ACCOMMODATE THE 6\"/>

**PERIMETER EROSION BARRIER
(SILT FENCE) - SPLICING TWO FENCES**
STD. IUM-620B(W)
(SILT FENCE - SPLICING TWO FENCES)



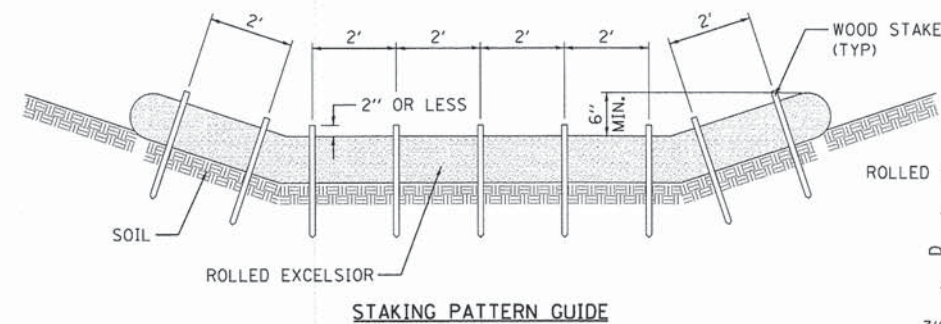
* Must Extend Full Width Of Ingress And Egress Operation.



NOTES:

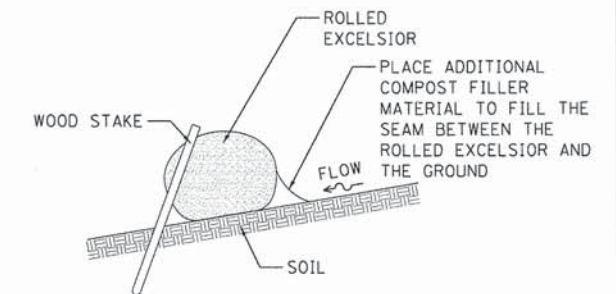
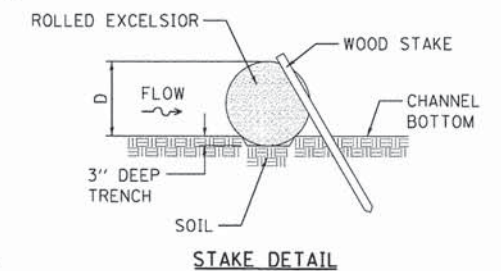
1. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF ARTICLE 1080.03 OF THE STANDARD SPECIFICATIONS AND SHALL BE PLACED OVER THE CLEARED SUBGRADE AREA PRIOR TO PLACING THE ROCK.
2. AGGREGATE FILL SHALL MEET ONE OF THE FOLLOWING IDOT COARSE AGGREGATE GRADATIONS, CA-1, CA-2, CA-3 OR CA-4 AND BE PLACED ACCORDING TO SPECIAL PROVISION \" STABILIZED CONSTRUCTION ENTRANCE.
3. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHALL BE CONSTRUCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS.
4. IF WASH RACKS ARE USED THEY SHALL BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS.

STABILIZED CONSTRUCTION ENTRANCE PLAN
STD. IL-630(A), IL-630(B)
(STABILIZED CONSTRUCTION ENTRANCE PLAN)



NOTES:

1. ENDS OF ROLLED EXCELSIOR SHALL BE TURNED AT LEAST 6\"/>



**TEMPORARY DITCH CHECK
ROLLED EXCELSIOR**
STD. IUM-514
(ROLLED EROSION CONTROL PRODUCTS)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL
& SEEDING DETAILS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	26
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				

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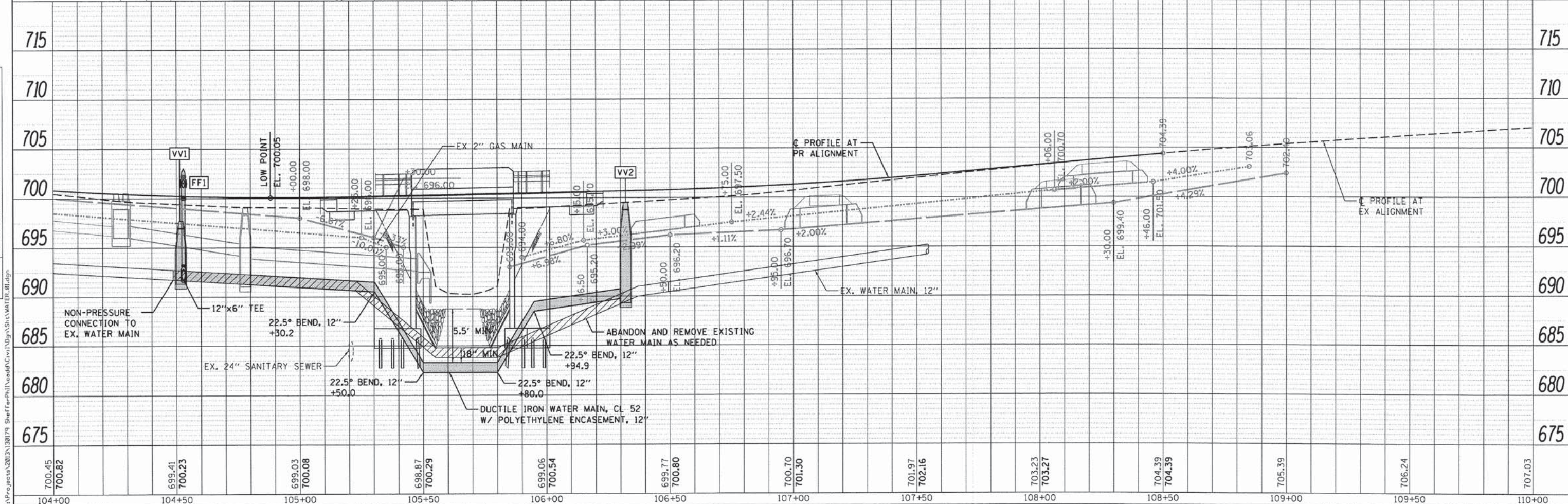
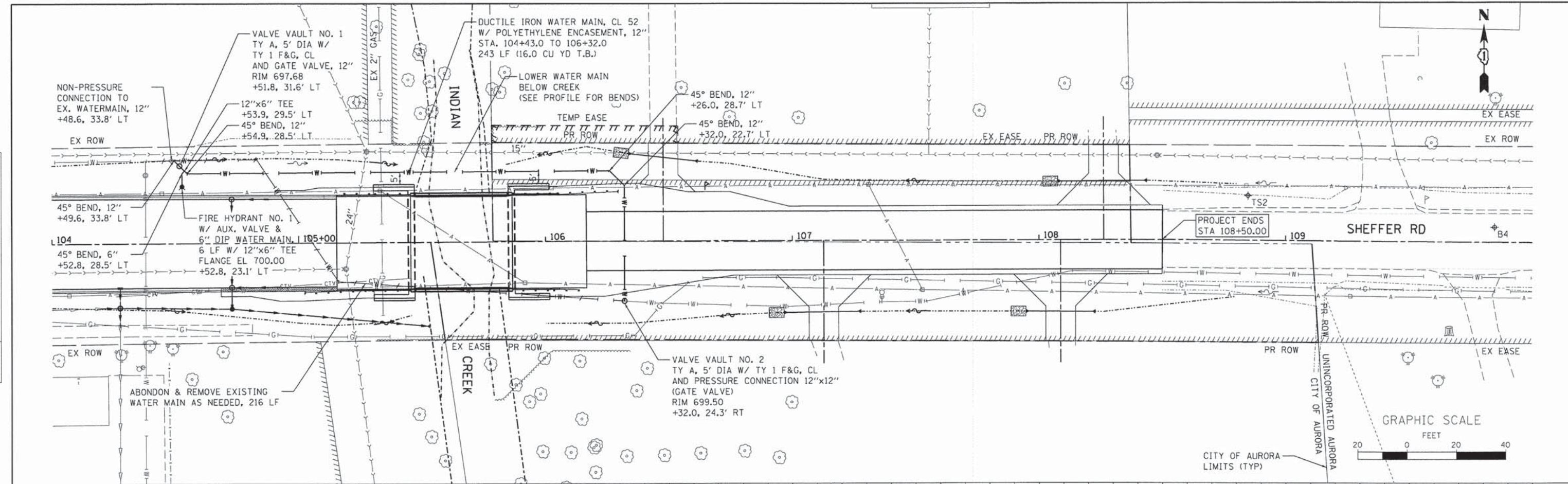
WBK WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174

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PLOT DATE = 12/12/2014	CHECKED - SBP	REVISED -
	DATE - 12/15/2014	REVISED -

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

DATE	
BY	
PLANNED	
DESIGNED	
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NOTED	
NO. OF WAY CHECKED	
CADD FILE NAME	

DATE	
BY	
PLANNED	
DESIGNED	
CHECKED	
NOTED	
NO. OF WAY CHECKED	
CADD FILE NAME	



FILE NAME = \\P:\projects\2013\130179_ShefferPhl\Road\Civil\09\Sheffer\WATER_01.dgn	USER NAME = nparris	DESIGNED - MNB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WATER MAIN RELOCATION PLAN & PROFILE			F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 29
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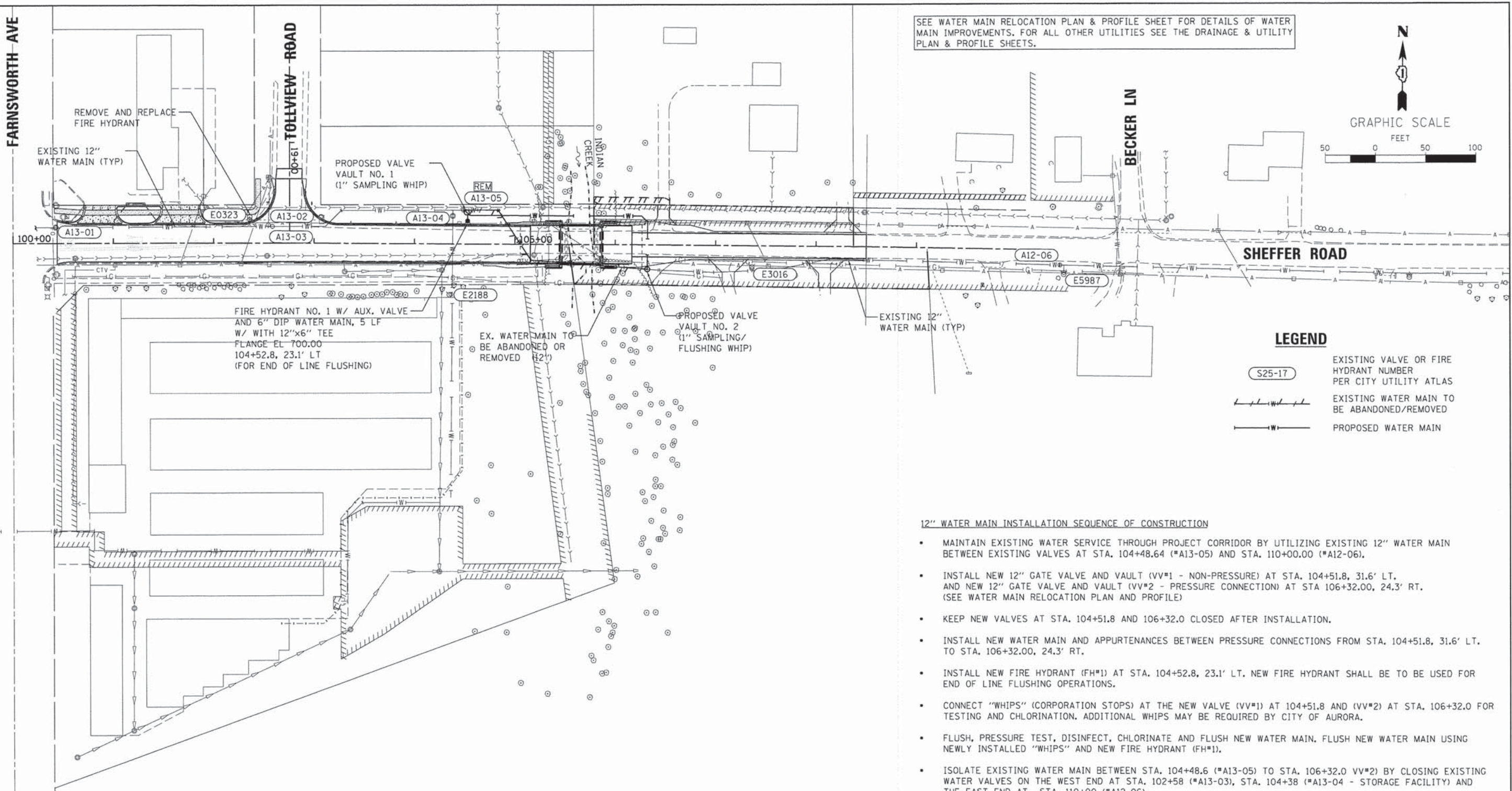
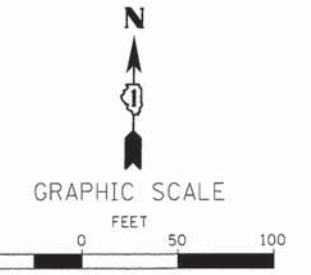
FARNSWORTH AVE

TOLLVIEW ROAD

BECKER LN

SHEFFER ROAD

SEE WATER MAIN RELOCATION PLAN & PROFILE SHEET FOR DETAILS OF WATER MAIN IMPROVEMENTS. FOR ALL OTHER UTILITIES SEE THE DRAINAGE & UTILITY PLAN & PROFILE SHEETS.



LEGEND

- (S25-17) EXISTING VALVE OR FIRE HYDRANT NUMBER PER CITY UTILITY ATLAS
- EXISTING WATER MAIN TO BE ABANDONED/REMOVED
- PROPOSED WATER MAIN

12" WATER MAIN INSTALLATION SEQUENCE OF CONSTRUCTION

- MAINTAIN EXISTING WATER SERVICE THROUGH PROJECT CORRIDOR BY UTILIZING EXISTING 12" WATER MAIN BETWEEN EXISTING VALVES AT STA. 104+48.64 (*A13-05) AND STA. 110+00.00 (*A12-06).
- INSTALL NEW 12" GATE VALVE AND VAULT (VV*1 - NON-PRESSURE) AT STA. 104+51.8, 31.6' LT. AND NEW 12" GATE VALVE AND VAULT (VV*2 - PRESSURE CONNECTION) AT STA 106+32.00, 24.3' RT. (SEE WATER MAIN RELOCATION PLAN AND PROFILE)
- KEEP NEW VALVES AT STA. 104+51.8 AND 106+32.0 CLOSED AFTER INSTALLATION.
- INSTALL NEW WATER MAIN AND APPURTENANCES BETWEEN PRESSURE CONNECTIONS FROM STA. 104+51.8, 31.6' LT. TO STA. 106+32.00, 24.3' RT.
- INSTALL NEW FIRE HYDRANT (FH*1) AT STA. 104+52.8, 23.1' LT. NEW FIRE HYDRANT SHALL BE TO BE USED FOR END OF LINE FLUSHING OPERATIONS.
- CONNECT "WHIPS" (CORPORATION STOPS) AT THE NEW VALVE (VV*1) AT 104+51.8 AND (VV*2) AT STA. 106+32.0 FOR TESTING AND CHLORINATION. ADDITIONAL WHIPS MAY BE REQUIRED BY CITY OF AURORA.
- FLUSH, PRESSURE TEST, DISINFECT, CHLORINATE AND FLUSH NEW WATER MAIN. FLUSH NEW WATER MAIN USING NEWLY INSTALLED "WHIPS" AND NEW FIRE HYDRANT (FH*1).
- ISOLATE EXISTING WATER MAIN BETWEEN STA. 104+48.6 (*A13-05) TO STA. 106+32.0 VV*2) BY CLOSING EXISTING WATER VALVES ON THE WEST END AT STA. 102+58 (*A13-03), STA. 104+38 (*A13-04 - STORAGE FACILITY) AND THE EAST END AT STA. 110+00 (*A12-06).
- DISCONNECT EXISTING WATER MAIN AT PRESSURE CONNECTION AT STA. 106+32.0. PROVIDE PLUG AND RESTRAINED JOINTING. REMOVE EXISTING VALVE AT STA. 104+48.6 (*A13-05) AND MAKE NON-PRESSURE CONNECTION TO THE EXISTING WATER MAIN. PROVIDE RESTRAINED JOINTING. THIS WORK SHALL BE COMPLETED WITHIN 1 HOUR TIME PERIOD AND COMPLETED SIMULTANEOUSLY.
- RE-FLUSH SYSTEM BY OPENING EXISTING WATER VALVES ON THE WEST END AT STA. 102+58 (*A13-03) AND THE EAST END AT STA. 110+00 (*A12-06). OPEN NEW VALVES AT STA. 104+51.8 (VV*1) AND STA. 106+32.0 (VV*2). KEEP EXISTING VALVE (*A13-04 - STORAGE FACILITY) CLOSED. FLUSH USING NEW FIRE HYDRANT (FH*1) AT STA. 104+52.8 AND EXISTING FIRE HYDRANT AT STA. 107+36 (E3016).
- OPEN EXISTING VALVE AT STA. 104+38 (*A13-04 - STORAGE FACILITY) AND FLUSH LATERAL USING EXISTING FIRE HYDRANT AT STA. 104+35, 51' RT. (E2188).
- REMOVE OR ABANDON EXISTING 12" WATER MAIN AS NEEDED TO CONSTRUCT BRIDGE AND ROADWAY IMPROVEMENTS.

FIRE HYDRANT TO BE REMOVED AND REPLACED

- THE EXISTING FIRE HYDRANT AT STA. 102+35.9, 26.2' LT (*E0323) WILL BE REMOVED AND A NEW FIRE HYDRANT ASSEMBLY WILL BE CONSTRUCTED AT THE SAME LOCATION. THE NEW FIRE HYDRANT SHALL BE SET TO THE PROPOSED ELEVATION SHOWN IN THE PLANS.
- ISOLATE EXISTING WATER MAIN BY CLOSING WATER VALVES AT STA. 100+42.5 (*A13-01), STA. 102+58.5 (A13-03) AND STA. 102+54.5 (A13-02).
- INSTALL NEW FIRE HYDRANT AT STA. 102+35.9, 26.2' LT. FLUSH FIRE HYDRANT BEFORE OPENING ALL VALVES.
- PUT EXISTING WATER MAIN INTO SERVICE BY OPENING ALL PREVIOUSLY CLOSED VALVES.

SEQUENCE OF OPERATION NOTES

THE WATER MAIN INSTALLATION SEQUENCE OF CONSTRUCTION LISTED BELOW IS A SUGGESTED SEQUENCE OF OPERATIONS AND DOES NOT, NOR IS IT INTENDED, TO DEPICT ALL THE WORK REQUIRED BY THE CONTRACTOR TO CONSTRUCT THE NEW WATER MAIN AND APPURTENANCES AS SHOWN IN THE PLANS. THE SEQUENCE OF OPERATION IS GIVEN AS AN AIDE AND GUIDE FOR THE CONTRACTOR'S USE TO ESTABLISH NECESSARY GUIDELINES REQUIRED BY THE CITY OF AURORA FOR SHUTTING DOWN OF EXISTING WATER MAINS. THE CONTRACTOR MAY WISH TO MAKE REVISIONS OR MODIFICATIONS TO THE SEQUENCE OF OPERATION AND/OR CONSTRUCTION METHODS. THE CONTRACTOR WILL COORDINATE AND FINALIZE THE SEQUENCE OF CONSTRUCTION OPERATIONS WITH THE ENGINEER AND CITY OF AURORA WATER PRODUCTION DIVISION.

FILE NAME = M:\P\Projects\2013\130179_ShefferPhd\Cadd\Civil\Drawn\SHAW\WATER_02.dgn

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

USER NAME = rporris	DESIGNED - SBP	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

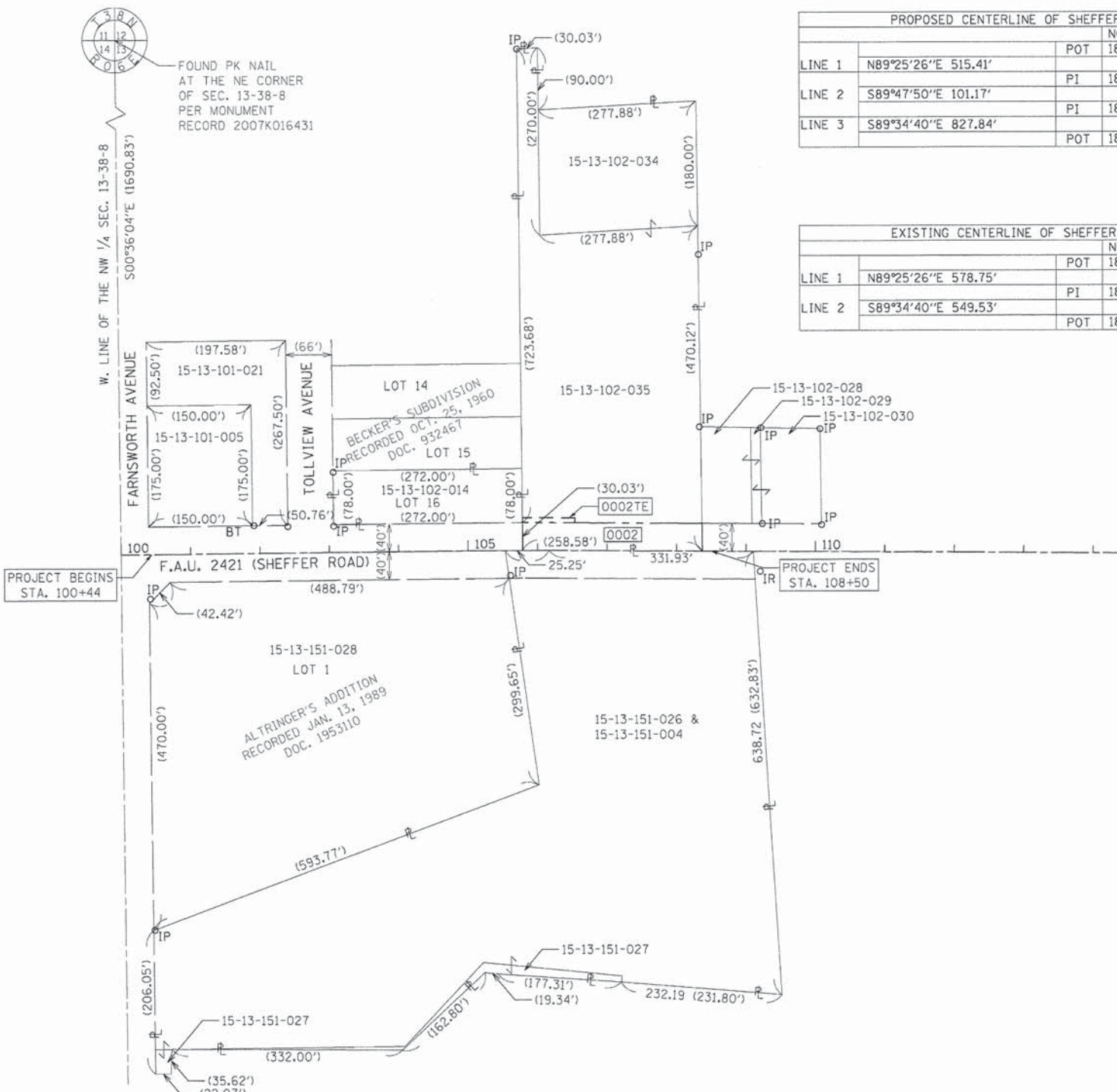
**WATER MAIN RELOCATION
SEQUENCE OF CONSTRUCTION**

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 30
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				

PART OF THE NORTHWEST 1/4 OF SECTION 13, TWN. 38 N., R. 8 E. OF THE THIRD P. M., AURORA TOWNSHIP, KANE COUNTY, ILLINOIS.

LEGEND



PROPOSED CENTERLINE OF SHEFFER RD.			
		NORTHING	EASTING
LINE 1	N89°25'26"E 515.41'	POT 1861618.00	998316.26
LINE 2	S89°47'50"E 101.17'	PI 1861623.18	998831.65
LINE 3	S89°34'40"E 827.84'	PI 1861623.54	998932.81
		POT 1861617.44	999760.63

EXISTING CENTERLINE OF SHEFFER RD.			
		NORTHING	EASTING
LINE 1	N89°25'26"E 578.75'	POT 1861618.00	998316.26
LINE 2	S89°34'40"E 549.53'	PI 1861623.82	998894.98
		POT 1861619.77	999444.49

SECTION CORNER

QUARTER SECTION CORNER

SECTION LINE

QUARTER SECTION LINE

PROPERTY LINE

CENTERLINE

EXISTING R.O.W. LINE

EXISTING EASEMENT LINE

PROPOSED R.O.W. LINE

PROPOSED EASEMENT LINE

XXX.XX'

(XXX.XX')

oIP

oBT

o

APK

ss

MEASURED DIMENSION

RECORDED DATA

IRON PIPE OR ROD FOUND

BOLT IN CONCRETE FOUND

FOUND DISK

P.K. NAIL FOUND

R.O.W. MARKER FOUND

T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION, SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

BT1 THESE STAKES IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION, BURIED 5/8 INCH IRON ROD 20 INCHES BELOW TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

BT2

BT3

STAKING OF PROPOSED RIGHT OF WAY, SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (2007 ADJUSTMENT), EAST ZONE.

STATE OF ILLINOIS)
) SS
 COUNTY OF KANE)

WE, WILLS BURKE KELSEY ASSOCIATES, ILLINOIS PROFESSIONAL DESIGN FIRM NUMBER 184-002097, DO HEREBY DECLARE THAT THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 38 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR KANE COUNTY DEPARTMENT OF TRANSPORTATION.

GIVEN UNDER MY HAND AND SEAL THIS _____ DAY OF JANUARY A.D., 2015 AT ST. CHARLES, ILLINOIS.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

RUDY P. DIXON
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3832
 MY LICENSE EXPIRES NOVEMBER 30, 2016
 DESIGN FIRM LICENSE EXPIRES APRIL 30, 2015

PARCEL	OWNER	TOTAL HOLDING ACRES	R.O.W. REQUIRED		PREVIOUSLY USED ACRES	REMAINDER ACRES	EASEMENT AREA		PURPOSE OF EASEMENT	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
			ACRES	SQ FT			ACRES	SQ FT			
0002	OLGA A. BURROUGHS AS TRUSTEE OF OLGA A. BURROUGHS DECLARATION OF TRUST DATED AUGUST 10, 2007	3.863	0.237	10,341.84	0.237	3.626	N/A	N/A	CONSTRUCTION	15-13-102-035	
0002TE							0.012	528.56		15-13-102-034	



PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.U. 2421 (SHEFFER ROAD)

LIMITS: SEE STA. RANGE COUNTY: KANE
 SECTION: 11-00298-00-BR JOB NO.: R-55-001-97
 STATION 100+44 TO STATION 108+50
 SCALE: 1" = 100' SHEET 2 OF 4

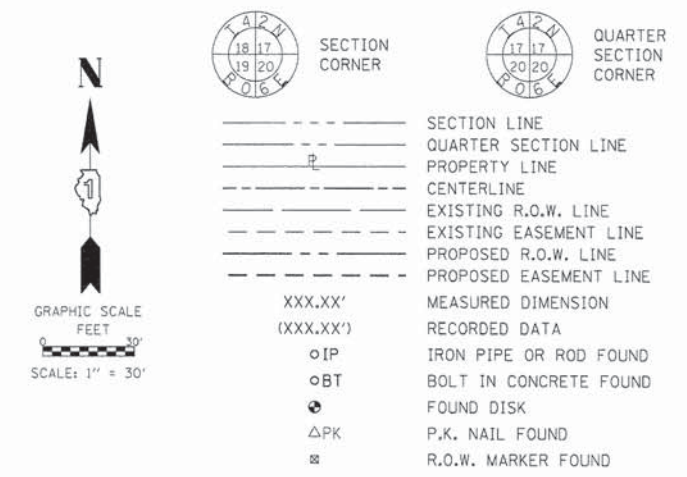
BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196

FILE NAME: \\P:\Projects\2013\130175_ShefferPlat\Cadd\Civil\Drawn\Sh\PLAT.dwg

WILLS 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	PLAT OF HIGHWAYS FOR REFERENCE ONLY	SCALE: N.T.S. SHEET NO. 1 OF 3 SHEETS STA. TO STA.	MADE BY	F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 31
	PLOT SCALE = 1:50	DRAWN -	REVISED -					CONTRACT NO. 61B08				
PLOT DATE = 12/12/2014	CHECKED -	REVISED -	ILLINOIS FED. AID PROJECT									
	DATE = 12/15/2014	REVISED -										

PART OF THE NORTHWEST 1/4 OF SECTION 13, TWN. 38 N., R. 8 E. OF THE THIRD P. M., AURORA TOWNSHIP, KANE COUNTY, ILLINOIS.

LEGEND



- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET
 - T2 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE
 - T3 IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - BT1 THESE STAKES IN CULTIVATED AREAS, REFERENCE FOUND OR SET
 - BT2 MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW TO
 - BT3 TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (2007 ADJUSTMENT), EAST ZONE.

STATE OF ILLINOIS)
 COUNTY OF KANE) SS

WE, WILLS BURKE KELSEY ASSOCIATES, ILLINOIS PROFESSIONAL DESIGN FIRM NUMBER 184-002097, DO HEREBY DECLARE THAT THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 38 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR KANE COUNTY DEPARTMENT OF TRANSPORTATION.

GIVEN UNDER MY HAND AND SEAL THIS _____ DAY OF JANUARY A.D., 2015 AT ST. CHARLES, ILLINOIS.

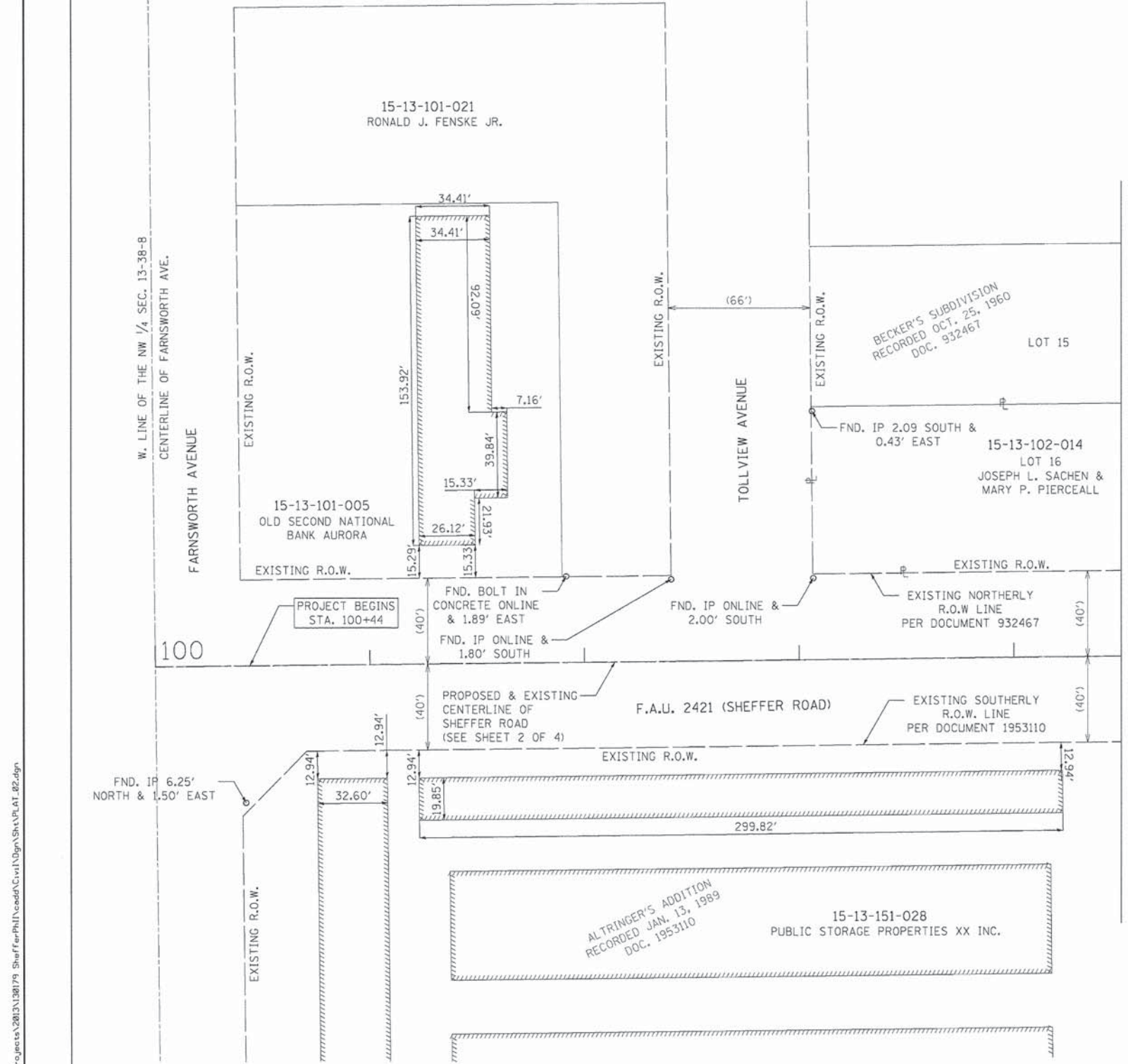
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
 RUDY P. DIXON
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3832
 MY LICENSE EXPIRES NOVEMBER 30, 2016
 DESIGN FIRM LICENSE EXPIRES APRIL 30, 2015



PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 F.A.U. 2421 (SHEFFER ROAD)

LIMITS: SEE STA. RANGE COUNTY: KANE
 SECTION: 11-00298-00-BR JOB NO.: R-55-001-97
 STATION 100+44 TO STATION 108+50
 SCALE: 1" = 30' SHEET 3 OF 4

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAMBURG, ILLINOIS 60196



FILE NAME: W:\Projects\2013\128179_ShefferRd\Drawings\SHA\PLAT_82.dwg

WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174	USER NAME = nperris	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAT OF HIGHWAYS FOR REFERENCE ONLY		F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 32	
	PLOT SCALE = 1:50	CHECKED -	REVISED -		SCALE: N.T.S.	SHEET NO. 2 OF 3 SHEETS	STA. TO STA.	CONTRACT NO. 61B08				
	PLOT DATE = 12/12/2014	DATE = 12/15/2014	REVISED -		REVISED -			ILLINOIS FED. AID PROJECT				

PART OF THE NORTHWEST 1/4 OF SECTION 13, TWN. 38 N., R. 8 E. OF THE THIRD P. M., AURORA TOWNSHIP, KANE COUNTY, ILLINOIS.

PROJECT COORDINATES
ILLINOIS STATE PLANE, EAST ZONE, NAD 83 (2007)

POINT	NORTHING	EASTING	STATION	OFFSET
A	1,861,663.825	998,894.576	105+78.49	40.42 LT
B	1,861,670.826	998,894.505	105+78.44	47.42 LT
C	1,861,670.269	998,970.072	106+53.50	47.00 LT
D	1,861,663.269	998,970.021	106+53.50	40.00 LT
E	1,861,661.920	999,153.077	108+36.56	40.00 LT
F	1,861,621.916	999,153.556	108+37.33	0.00 LT
G	1,861,623.821	998,894.978	105+78.75	0.41 LT

NOTES:
STATION AND OFFSETS FOR EACH POINT LISTED ABOVE ARE REFERENCED TO THE PROPOSED CENTERLINE OF SHEFFER ROAD.

LEGEND

- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8" INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - BT1 THESE STAKES IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8" INCH IRON ROD 20 INCHES BELOW TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (2007 ADJUSTMENT), EAST ZONE.

STATE OF ILLINOIS)
) SS
COUNTY OF KANE)

WE, WILLS BURKE KELSEY ASSOCIATES, ILLINOIS PROFESSIONAL DESIGN FIRM NUMBER 184-002097, DO HEREBY DECLARE THAT THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 13, TOWNSHIP 38 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR KANE COUNTY DEPARTMENT OF TRANSPORTATION.

GIVEN UNDER MY HAND AND SEAL THIS _____ DAY OF JANUARY A.D., 2015 AT ST. CHARLES, ILLINOIS.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
RUDY P. DIXON
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3832
MY LICENSE EXPIRES NOVEMBER 30, 2016
DESIGN FIRM LICENSE EXPIRES APRIL 30, 2015



PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
F.A.U. 2421 (SHEFFER ROAD)

LIMITS: SEE STA. RANGE COUNTY: KANE
SECTION: 11-00298-00-BR JOB NO.: R-55-001-97
STATION 100+44 TO STATION 108+50
SCALE: 1" = 30' SHEET 4 OF 4

BUREAU OF LAND ACQUISITION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196

MADE BY

PLAT OF HIGHWAYS
FOR REFERENCE ONLY

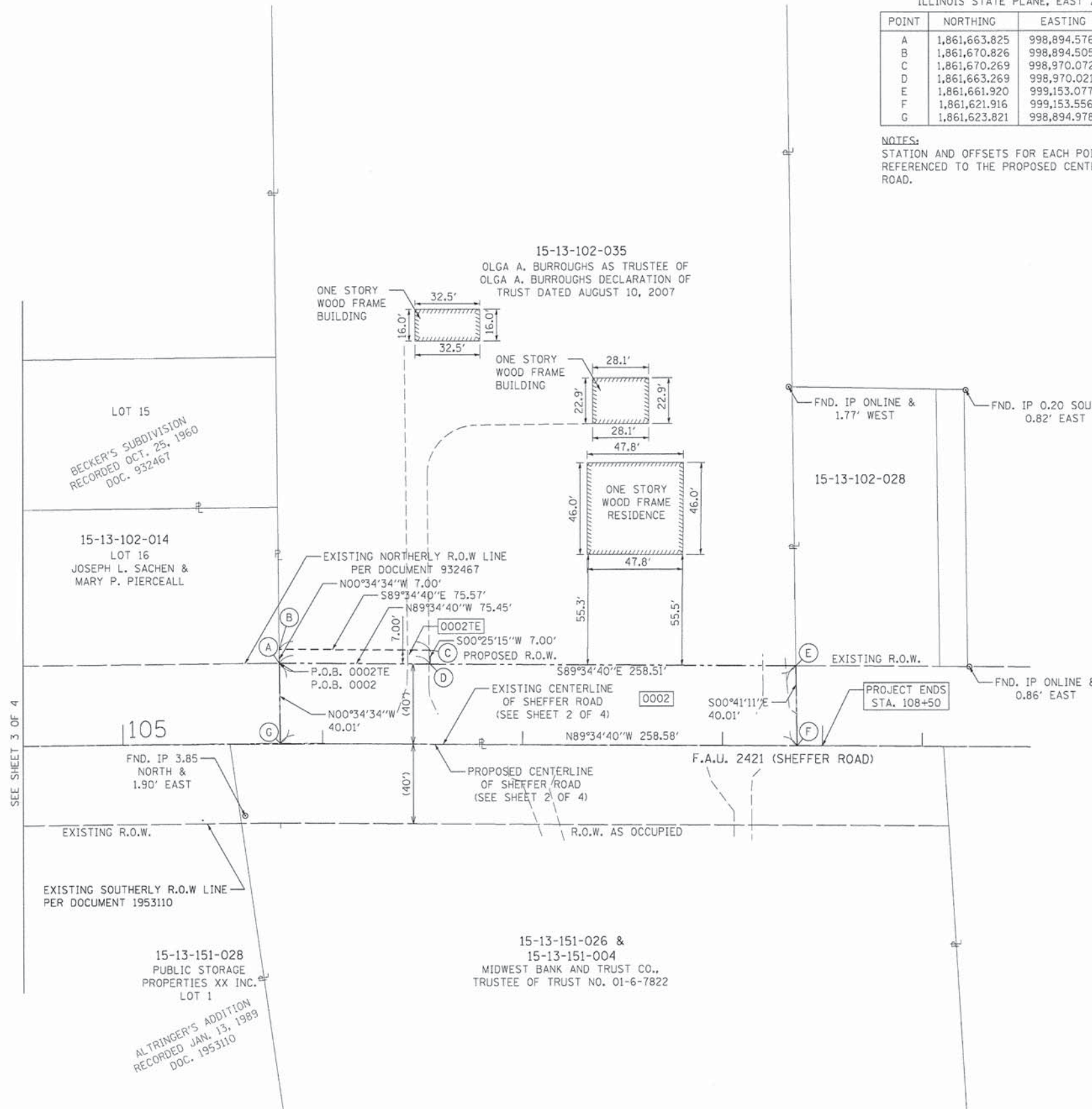
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	33
CONTRACT NO. 61B08				

SCALE: N.T.S. SHEET NO. 3 OF 3 SHEETS STA. TO STA.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

USER NAME	DESIGNED	REVISED
nparris	-	-
DRAWN	CHECKED	DATE
-	-	12/15/2014

PLOT SCALE	PLOT DATE
1:50	12/12/2014



SEE SHEET 3 OF 4

FILE NAME: M:\Projects\2013\130179_Sheffer\PHIL\cead\Civil\Dgn\Sheffer\PLAT_03.dgn



15-13-102-035
OLGA A. BURROUGHS AS TRUSTEE OF
OLGA A. BURROUGHS DECLARATION OF
TRUST DATED AUGUST 10, 2007

LOT 15
BECKER'S SUBDIVISION
RECORDED OCT. 25, 1960
DOC. 932467

15-13-102-014
LOT 16
JOSEPH L. SACHEN &
MARY P. PIERCEALL

EXISTING NORTHERLY R.O.W. LINE
PER DOCUMENT 932467
N00°34'34"W 7.00'
S89°34'40"E 75.57'
N89°34'40"W 75.45'
0002TE
S00°25'15"W 7.00'
PROPOSED R.O.W.
P.O.B. 0002TE
P.O.B. 0002
N00°34'34"W 40.01'
7.00'
40.01'

EXISTING CENTERLINE
OF SHEFFER ROAD
(SEE SHEET 2 OF 4)
0002
S00°41'11"E
40.01'

EXISTING R.O.W.
F.A.U. 2421 (SHEFFER ROAD)

EXISTING SOUTHERLY R.O.W. LINE
PER DOCUMENT 1953110

15-13-151-026 &
15-13-151-004
MIDWEST BANK AND TRUST CO.,
TRUSTEE OF TRUST NO. 01-6-7822

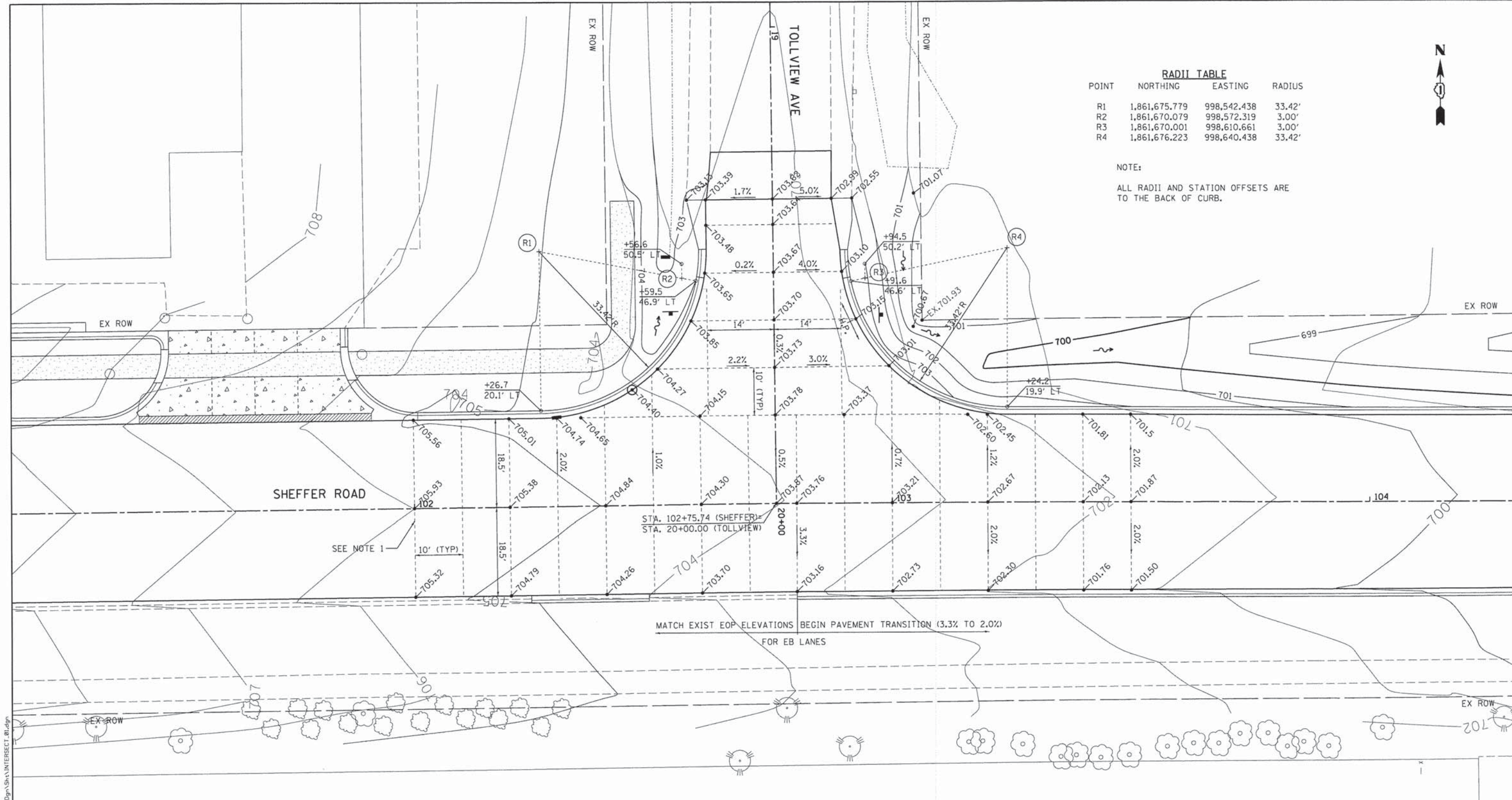
15-13-151-028
PUBLIC STORAGE
PROPERTIES XX INC.
LOT 1
ALTRINGER'S ADDITION
RECORDED JAN. 13, 1989
DOC. 1953110



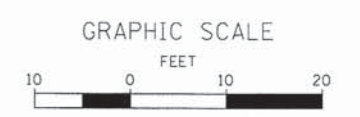
RADII TABLE

POINT	NORTHING	EASTING	RADIUS
R1	1,861,675.779	998,542.438	33.42'
R2	1,861,670.079	998,572.319	3.00'
R3	1,861,670.001	998,610.661	3.00'
R4	1,861,676.223	998,640.438	33.42'

NOTE:
ALL RADII AND STATION OFFSETS ARE TO THE BACK OF CURB.



- NOTES:
1. DASHED LINES SHOWN FOR LAYOUT PURPOSES ONLY AND DO NOT REPRESENT PAVEMENT JOINTS.
 2. SEE THE PLANS AND PROFILE SHEET FOR SHEFFER ROAD FOR PROFILE INFORMATION.



FILE NAME = W:\Projects\2013\11-00298-00-01\Sheffer\Plan\Grading\Sheet\INTERSECT_1.dgn

WBK WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60114

USER NAME = nparris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:10	DRAWN - NDP	REVISED -
PLOT DATE = 12/12/2014	CHECKED - SBP	REVISED -
	DATE - 12/15/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INTERSECTION GRADING PLAN	
SCALE: 1"=10'	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 34
CONTRACT NO. 61B08				ILLINOIS FED. AID PROJECT

STREET SIGN REQUIREMENTS

All streets shall use a 9" flat aluminum blank with 6" letters, upper and lower case. The prefix (N, S, E, W) and suffix (St, Ave, etc.) are 3". Sign length is determined by length of street name. The blank is covered with 3m #3990 vsp diamond grade white. The letters are cut and removed from 3m #1177 green film. This is then placed over the white to create white letters on a green background.

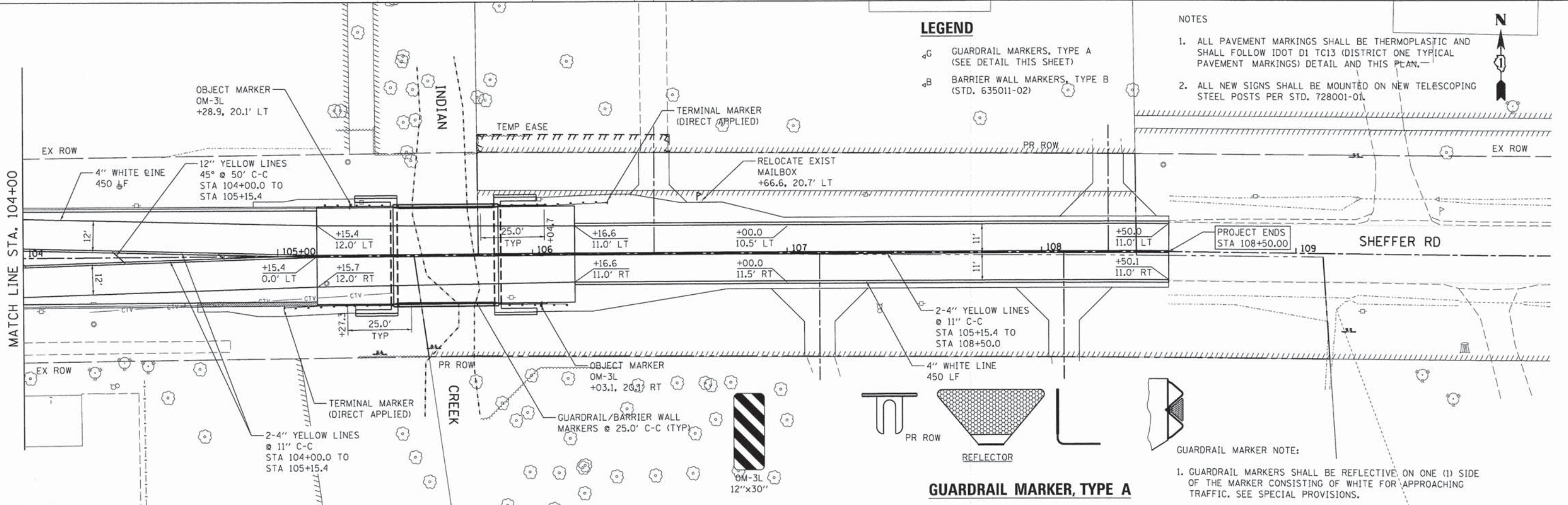
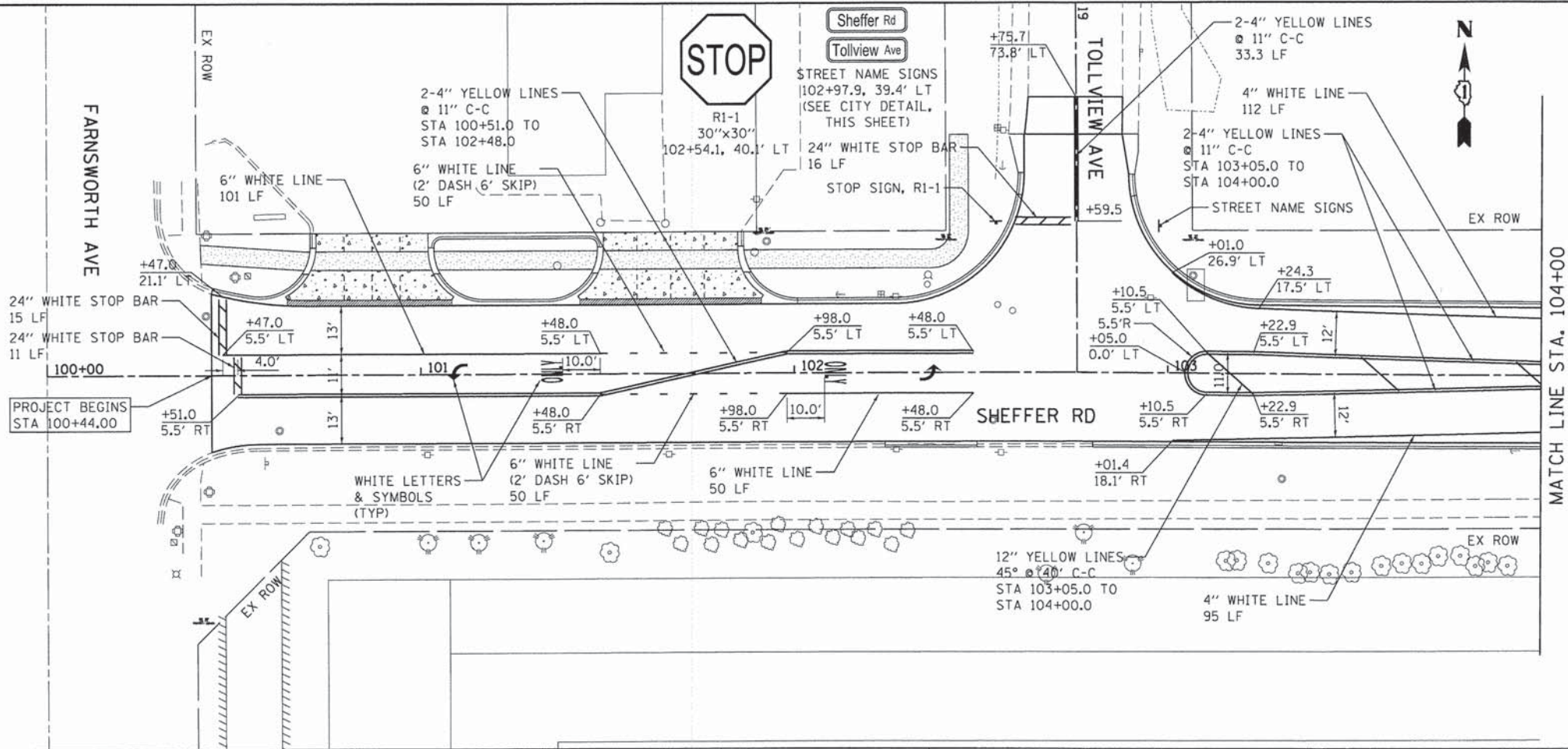
All signs should be mounted on the northeast corners unless obstructed. Signs may be mounted on light posts with a wing type bracket, one for each sign. Light posts must be at the northeast corner of the intersection.

FLAT ALUMINIUM BLANK THICKNESS .090
 3M V.P. WHITE DIAMOND GRADE FILM # 3990 Typical
 6" LETTERS
 .438 BORDER
 3" LETTERS

3M GREEN FILM # 1177 (Typical)
 2" SPACING (Typical)
 NOT LESS THAN 1" (Typical)

Revisions		STREET SIGN REQUIREMENTS	
Date:	By:	Scale:	Checked:
12/03	D. Feltman	None	
		Date:	Drawn:
			D. Goewey

EXHIBIT II-H-1

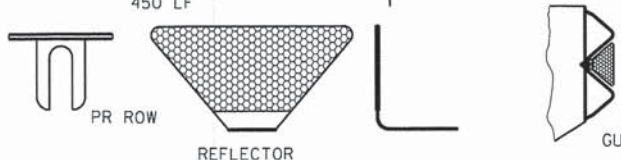


LEGEND

- ⊕G GUARDRAIL MARKERS, TYPE A (SEE DETAIL THIS SHEET)
- ⊕B BARRIER WALL MARKERS, TYPE B (STD. 635011-02)

NOTES

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND SHALL FOLLOW IDOT D1 TC13 (DISTRICT ONE TYPICAL PAVEMENT MARKINGS) DETAIL AND THIS PLAN.
2. ALL NEW SIGNS SHALL BE MOUNTED ON NEW TELESCOPING STEEL POSTS PER STD. 728001-01.



GUARDRAIL MARKER NOTE:

1. GUARDRAIL MARKERS SHALL BE REFLECTIVE ON ONE (1) SIDE OF THE MARKER CONSISTING OF WHITE FOR APPROACHING TRAFFIC. SEE SPECIAL PROVISIONS.

<p>WILLS BURKE KELSEY ASSOCIATES LTD. 116 West Main Street, Suite 201 St. Charles, Illinois 60174</p>	USER NAME = nporris	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING & SIGNING PLAN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 1:20	CHECKED -	REVISED -			2421	11-00298-00-BR	KANE	85	36	
	PLOT DATE = 12/12/2014	DATE = 12/15/2014	REVISED -			SCALE: 1"=20'	SHEET NO. 1 OF 1 SHEETS	STA. 100+44.00 TO STA. 108+80.00	CONTRACT NO. 61B08		ILLINOIS FED. AID PROJECT

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USER NAME = nporris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:10	DRAWN - NDP	REVISED -
PLOT DATE = 12/12/2014	CHECKED - SBP	REVISED -
	DATE - 12/15/2014	REVISED -

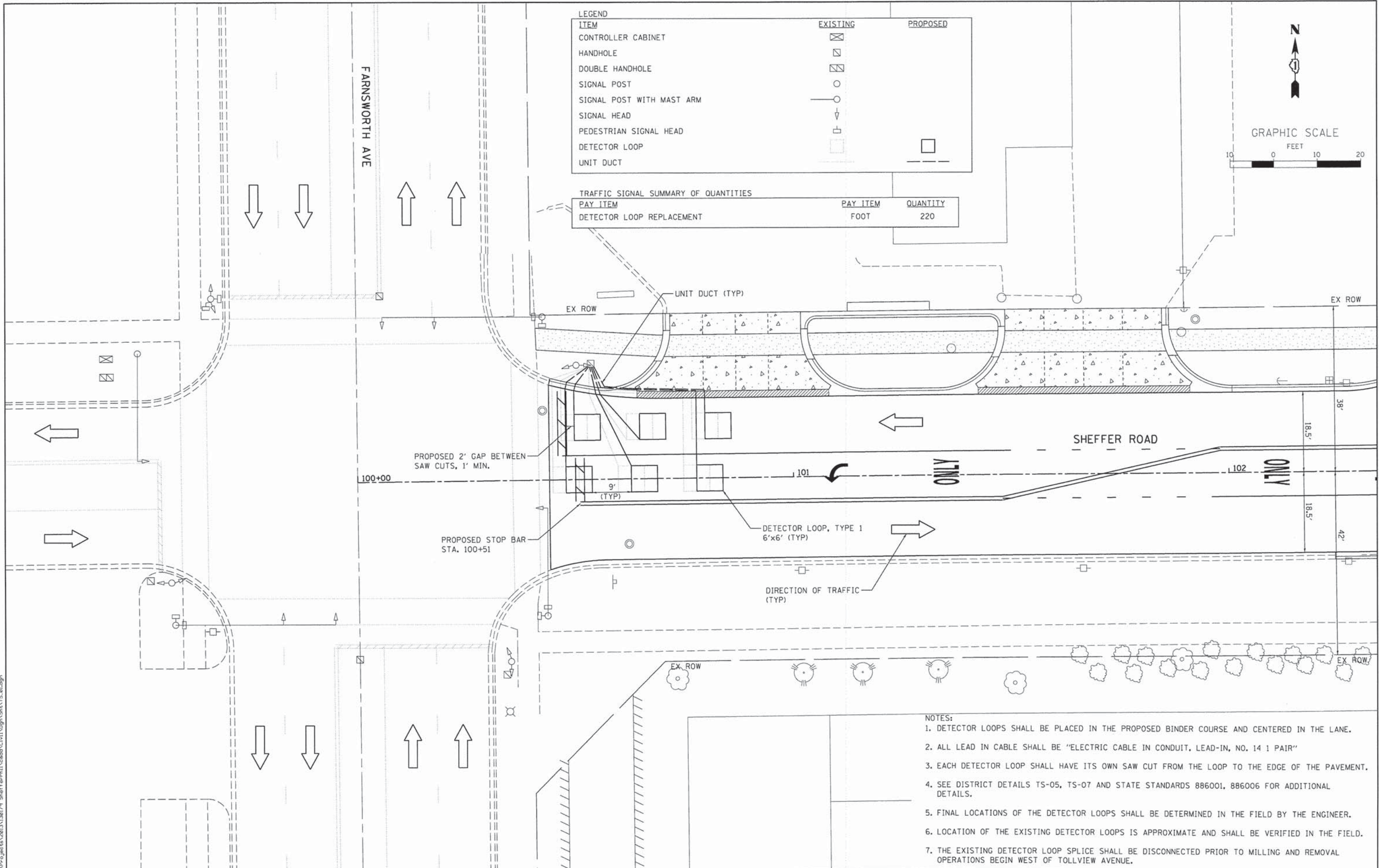
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETECTOR LOOP LAYOUT

SCALE: 1"=10' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	37
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				

- NOTES:
1. DETECTOR LOOPS SHALL BE PLACED IN THE PROPOSED BINDER COURSE AND CENTERED IN THE LANE.
 2. ALL LEAD IN CABLE SHALL BE "ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR"
 3. EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF THE PAVEMENT.
 4. SEE DISTRICT DETAILS TS-05, TS-07 AND STATE STANDARDS 886001, 886006 FOR ADDITIONAL DETAILS.
 5. FINAL LOCATIONS OF THE DETECTOR LOOPS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
 6. LOCATION OF THE EXISTING DETECTOR LOOPS IS APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD.
 7. THE EXISTING DETECTOR LOOP SPLICE SHALL BE DISCONNECTED PRIOR TO MILLING AND REMOVAL OPERATIONS BEGIN WEST OF TOLLVIEW AVENUE.

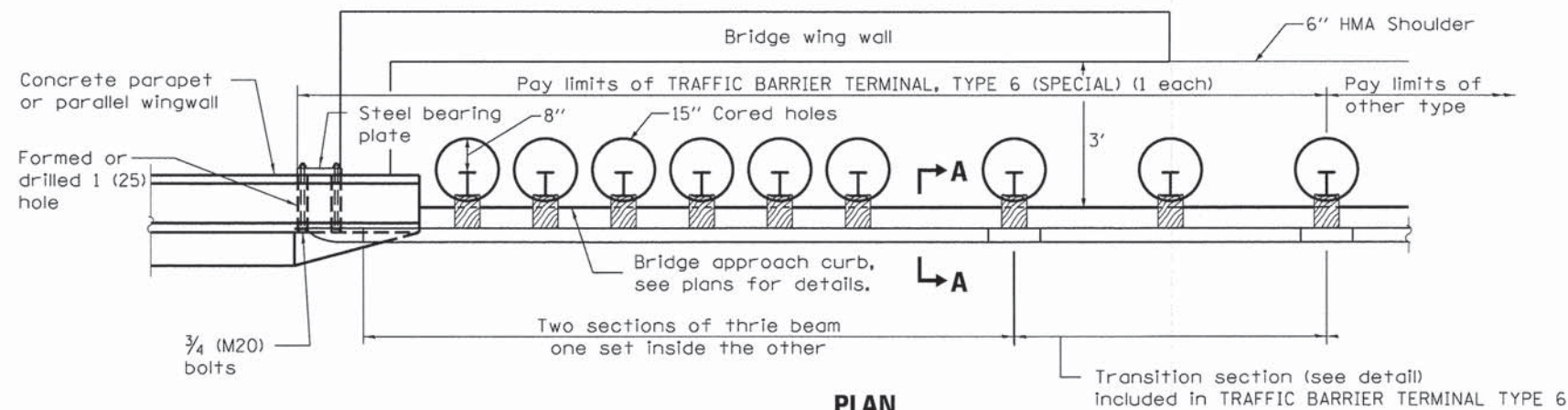


LEGEND

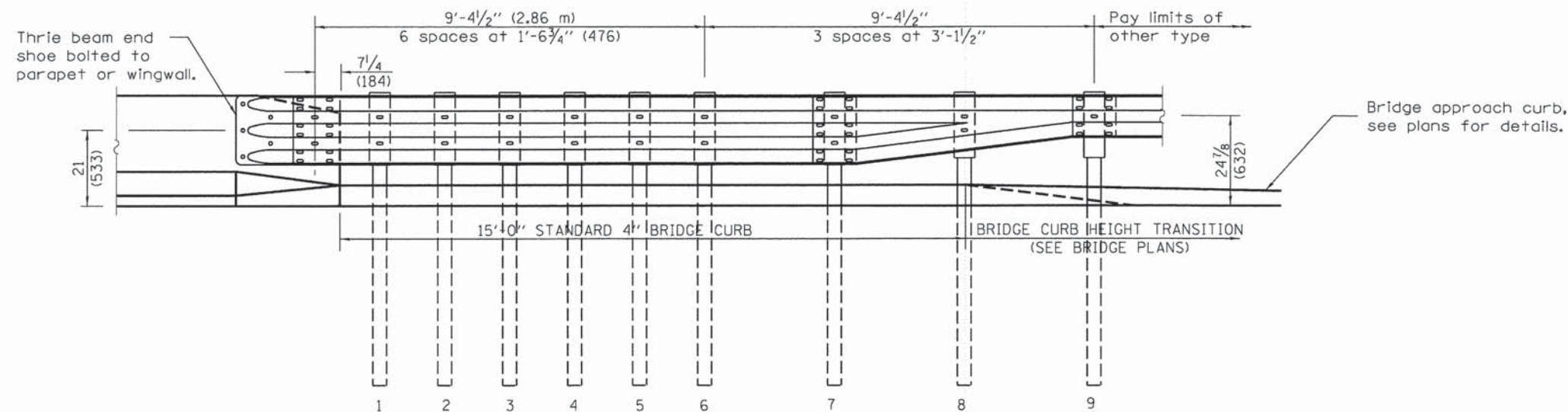
ITEM	EXISTING	PROPOSED
CONTROLLER CABINET	[Symbol]	[Symbol]
HANDHOLE	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
SIGNAL POST	[Symbol]	[Symbol]
SIGNAL POST WITH MAST ARM	[Symbol]	[Symbol]
SIGNAL HEAD	[Symbol]	[Symbol]
PEDESTRIAN SIGNAL HEAD	[Symbol]	[Symbol]
DETECTOR LOOP	[Symbol]	[Symbol]
UNIT DUCT	[Symbol]	[Symbol]

TRAFFIC SIGNAL SUMMARY OF QUANTITIES

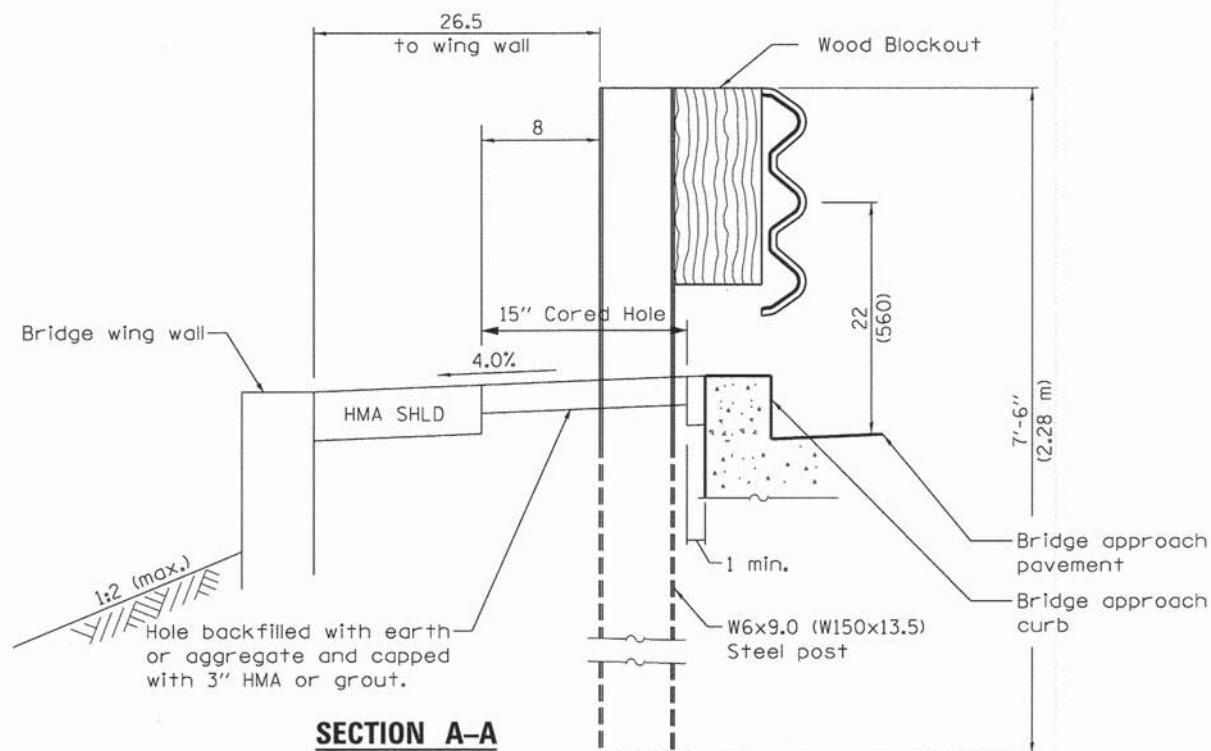
PAY ITEM	PAY ITEM	QUANTITY
DETECTOR LOOP REPLACEMENT	FOOT	220



PLAN



ELEVATION



SECTION A-A

GENERAL NOTES

See Standard 630001 for details of guardrail not shown.

See Standard 630201 for details of guardrail in HMA shoulder not shown.

Thrie beam rail shall be bolted to block-out at all posts.

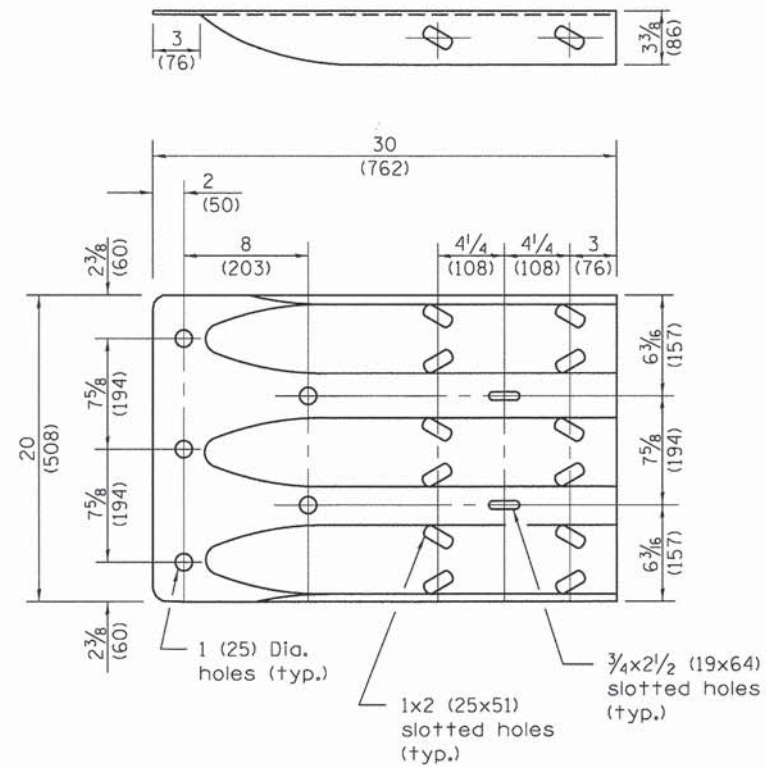
All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.

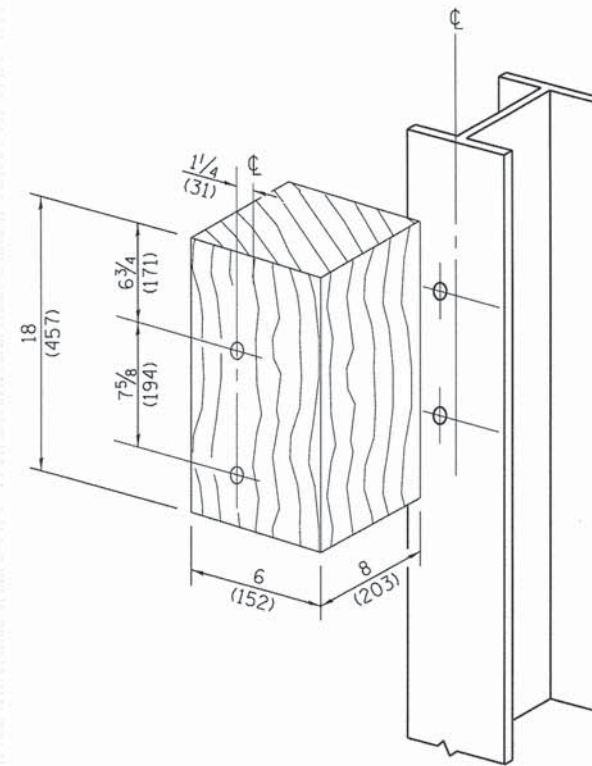
FILE NAME = M:\Projects\2013\120179_Sheriff\Ph1\Coord\Civil\09\Shrc\WBK\DET.dwg

USER NAME = nparris	DESIGNED -	REVISED -
PLOT SCALE = 1:1	DRAWN -	REVISED -
PLOT DATE = 12/12/2014	CHECKED -	REVISED -
	DATE = 12/15/2014	REVISED -

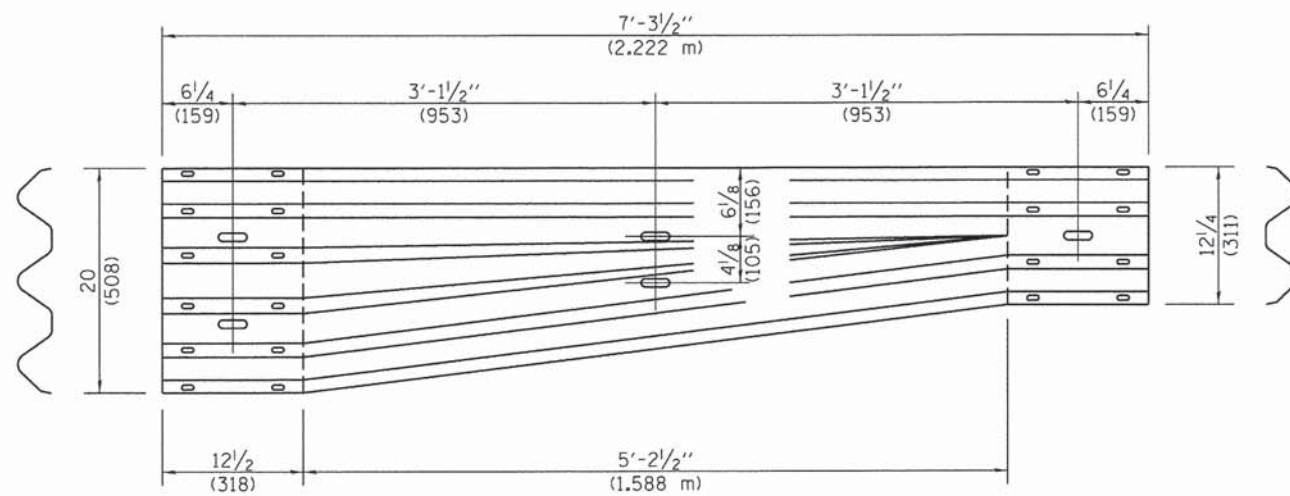
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	38
				CONTRACT NO. 61B08
[ILLINOIS] FED. AID PROJECT				



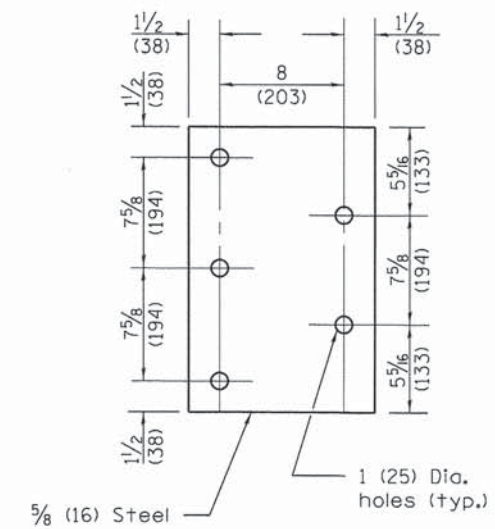
THRIE BEAM END SHOE DETAIL



POSTS 1-9 WOOD BLOCKOUT DETAIL



TRANSITION SECTION
(10 gauge (3.4) rail element)



PARAPET STEEL BEARING PLATE DETAIL

(5 each individual 5x5x5/8 (125x125x16) steel plates with centered 1 (25) holes may be substituted for the plate shown.)

FILE NAME = H:\Projects\2013\120714_Sheriff\Rail\Roads\Civil\Drawings\BRD\DET_02.dwg



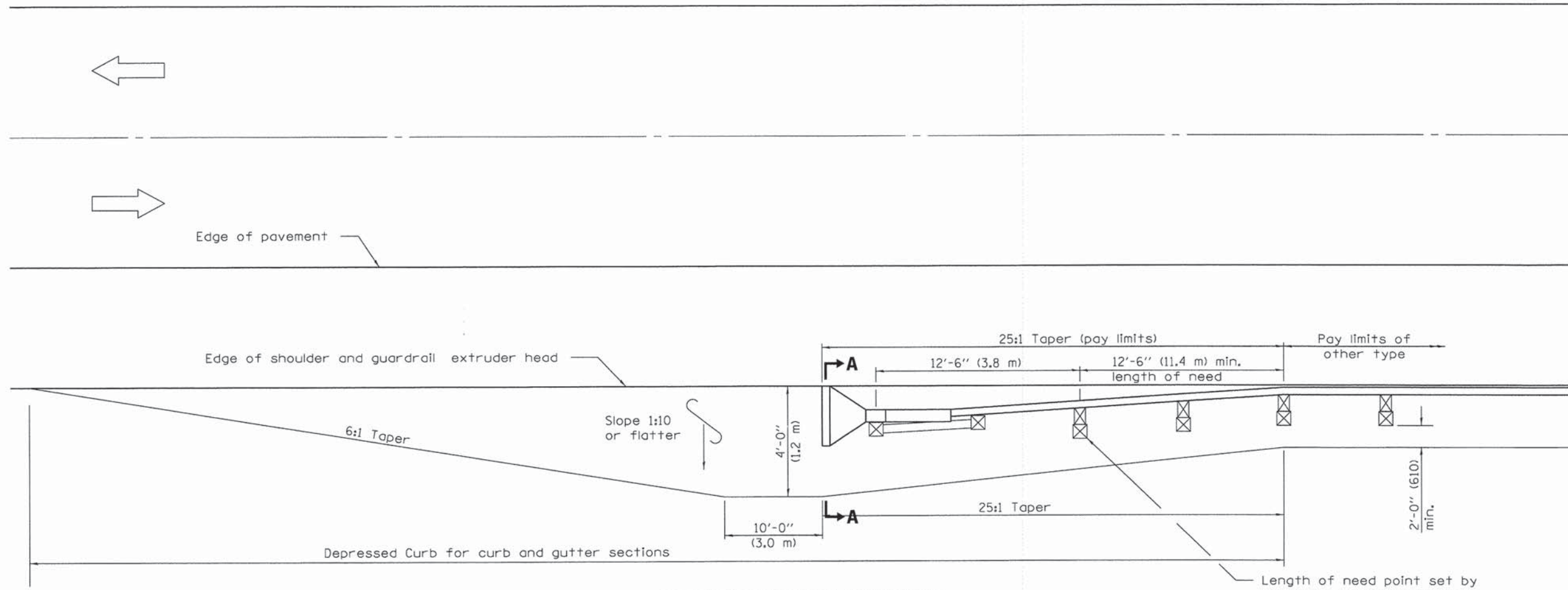
USER NAME = nparis	DESIGNED -	REVISED -
PLOT SCALE = 1:1	DRAWN -	REVISED -
PLOT DATE = 12/12/2014	CHECKED -	REVISED -
	DATE = 12/15/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

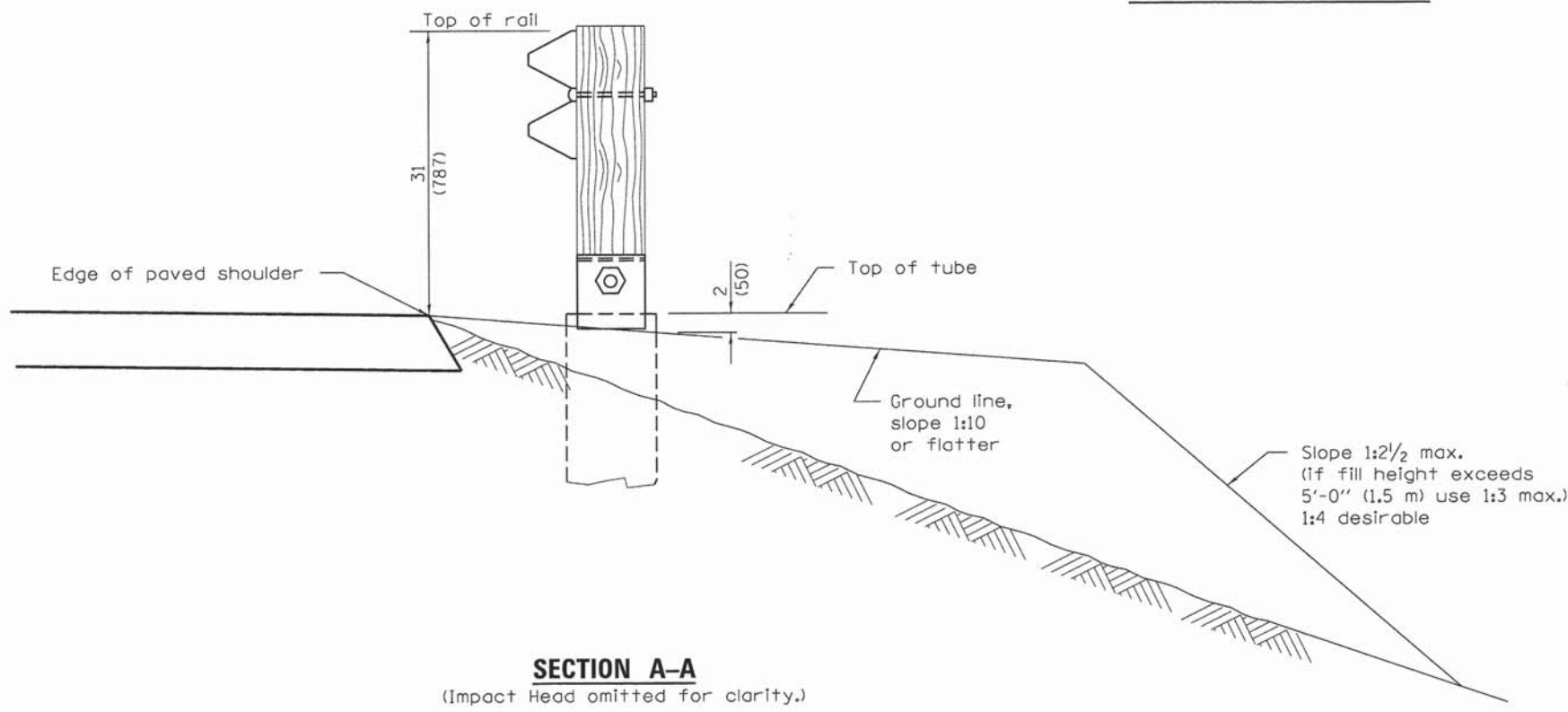
ROADWAY DETAILS
TRAFFIC BARRIER TERMINAL TYPE 6 (SPECIAL)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	39
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				



**SHOULDER WIDENING TRANSITION
FOR TANGENT TERMINAL**



SECTION A-A
(Impact Head omitted for clarity.)

GENERAL NOTES

25:1 Taper required so the guardrail head will not encroach on the shoulder.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = W:\Projects\2013\118179_Shaft\PHI\Needd\Civil\Ogn\Sht\RDWY_DET_83.dgn

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

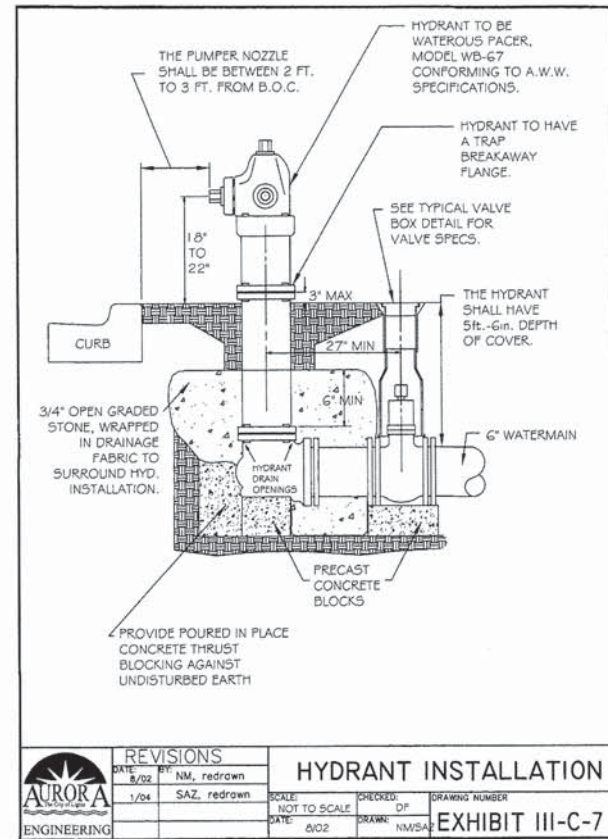
USER NAME = nparris	DESIGNED -	REVISED -
PLOT SCALE = 1:1	DRAWN -	REVISED -
PLOT DATE = 12/12/2014	CHECKED -	REVISED -
	DATE = 12/15/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

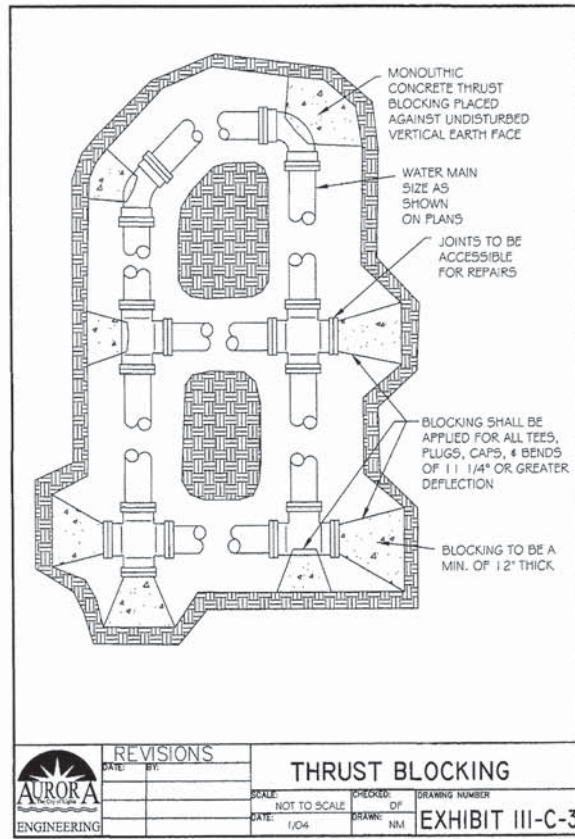
**ROADWAY DETAILS
TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT) MODIFIED**

SCALE: SHEET NO. 3 OF 5 SHEETS STA. TO STA.

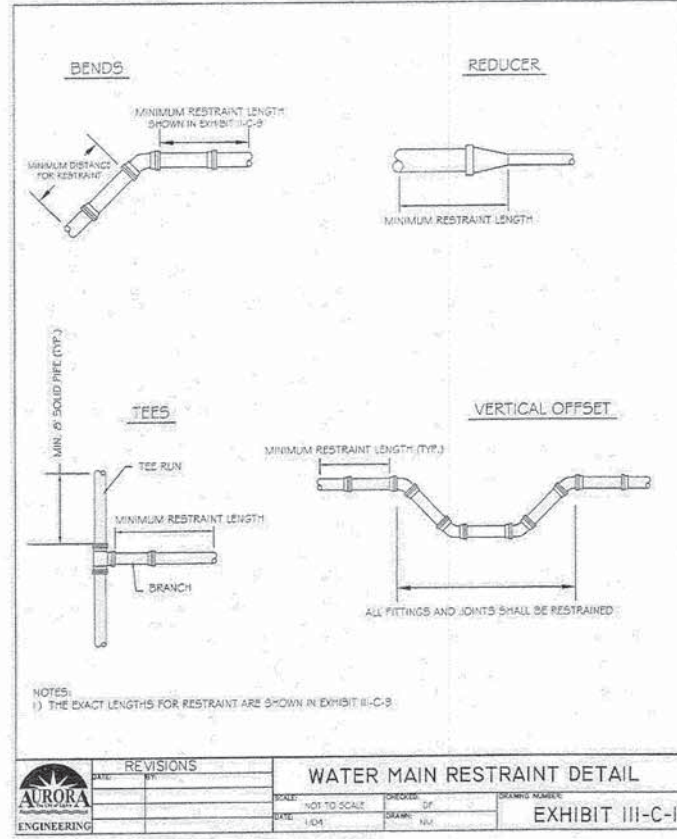
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	40
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				



REVISIONS		HYDRANT INSTALLATION	
DATE	BY	SCALE	DRAWING NUMBER
8/02	NM, redraw	NOT TO SCALE	EXHIBIT III-C-7
1/04	SAZ, redraw	NOT TO SCALE	EXHIBIT III-C-7



REVISIONS		THRUST BLOCKING	
DATE	BY	SCALE	DRAWING NUMBER
1/04	NM	NOT TO SCALE	EXHIBIT III-C-3



REVISIONS		WATER MAIN RESTRAINT DETAIL	
DATE	BY	SCALE	DRAWING NUMBER
1/04	NM	NOT TO SCALE	EXHIBIT III-C-10

Minimum Restraint Length (ft) on both sides of the Fitting				
Fitting Type/Nominal Size	6"	8"	12"	16"
1 1/4" Bend	2	3	4	6
2 1/2" Bend	5	6	9	11
4 1/2" Bend	10	13	18	23
90° Bend	23	30	43	56
Dead End	31	40	57	74
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).

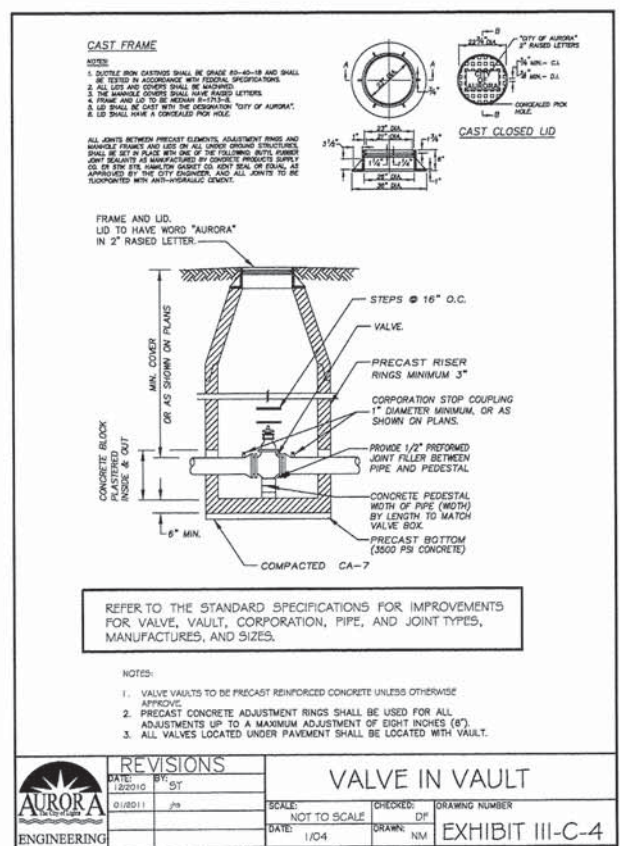
² Minimum of 8 ft of solid pipe is required on both sides of the fitting on the run side. Distance indicates the length of restraint on the branch side or the side perpendicular to the tee run watermain.

³ Indicates the distance from the larger end of the reducer.

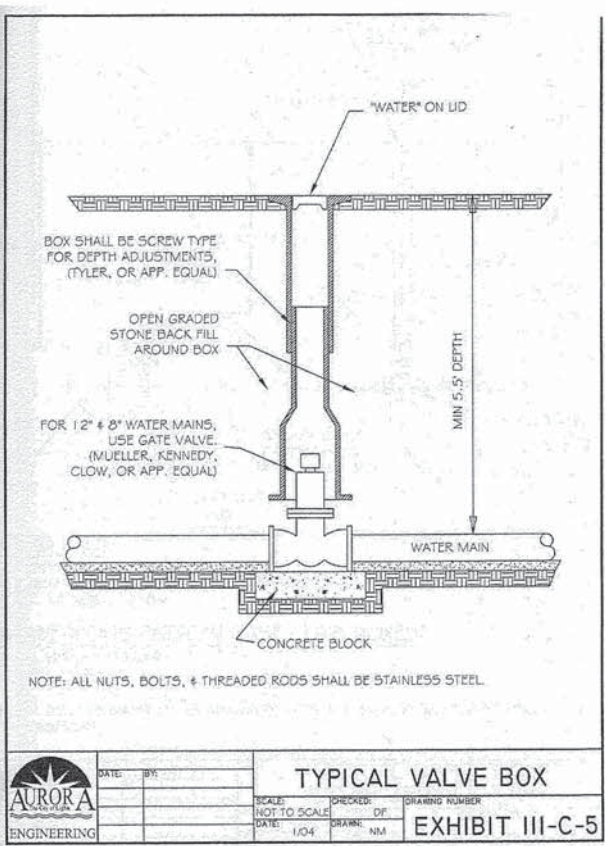
Notes: 1) All nuts and bolts shall be stainless steel.
2) The entire restraint system from the fitting to the minimum restraint distance must be inspected by The City of Aurora or it's representative prior to backfilling.

Revisions		Watermain Restraint Length Table	
DATE	BY	SCALE	CHECKED
		None	PJH
		Date:	Drawn:
		2/04	DF

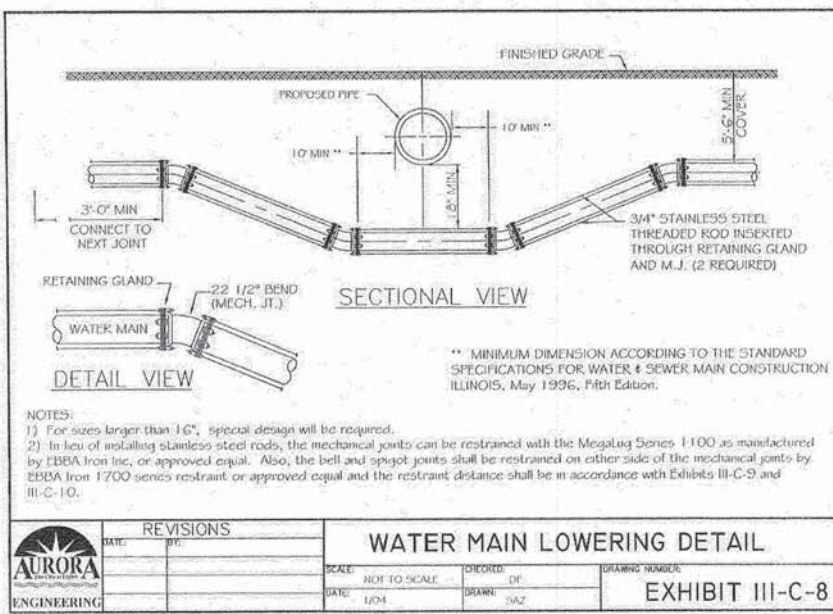
EXHIBIT III-C-9



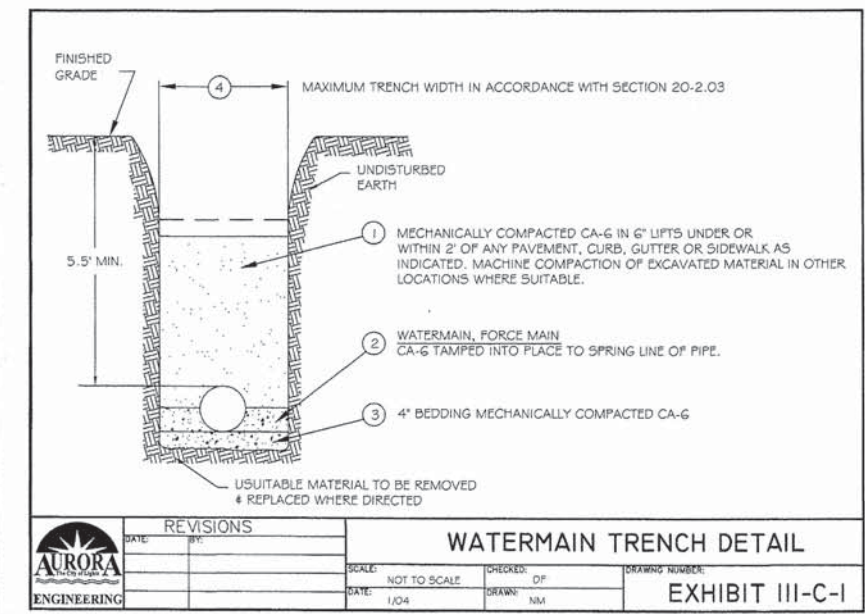
REVISIONS		VALVE IN VAULT	
DATE	BY	SCALE	DRAWING NUMBER
8/02	ST	NOT TO SCALE	EXHIBIT III-C-4
1/04	JM	NOT TO SCALE	EXHIBIT III-C-4



REVISIONS		TYPICAL VALVE BOX	
DATE	BY	SCALE	DRAWING NUMBER
1/04	NM	NOT TO SCALE	EXHIBIT III-C-5



REVISIONS		WATER MAIN LOWERING DETAIL	
DATE	BY	SCALE	DRAWING NUMBER
1/04	SAZ	NOT TO SCALE	EXHIBIT III-C-8



REVISIONS		WATERMAIN TRENCH DETAIL	
DATE	BY	SCALE	DRAWING NUMBER
1/04	NM	NOT TO SCALE	EXHIBIT III-C-1

FILE NAME: \\n:\Projects\2013\130179_Sheriff\Ph1\Vendor\Civil\04\SHA\WATER.DET_01.dgn

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
4. 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

TOTAL BILL OF MATERIAL

Item	Unit	Superstructure	Substructure	Total
Stone Riprap, Class A4	Sq. Yd.	----	363	363
Filter Fabric	Sq. Yd.	----	363	363
Removal of Existing Structures	Each	----	----	1
Cofferdam Excavation	Cu. Yd.	----	714	714
* Cofferdam (Type 2) (Location -1)	Each	----	1	1
* Cofferdam (Type 2) (Location -2)	Each	----	1	1
Concrete Structures	Cu. Yd.	----	216.3	216.3
Concrete Superstructure	Cu. Yd.	146.0	----	146.0
Bridge Deck Grooving	Sq. Yd.	423	----	423
Concrete Encasement	Cu. Yd.	----	12.6	12.6
Protective Coat	Sq. Yd.	474	----	474
* Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	1,647	----	1,647
Reinforcement Bars, Epoxy Coated	Pound	34,900	20,050	54,950
Furnishing Steel Piles HP 12x63	Foot	----	1,054	1,054
Driving Piles	Foot	----	1,054	1,054
Test Pile Steel HP 12x63	Each	----	2	2
Pile Shoes	Each	----	36	36
Name Plates	Each	----	----	1
Geocomposite Wall Drain	Sq. Yd.	----	69	69
* Concrete Wearing Surface, 5"	Sq. Yd.	184	----	184
* Granular Backfill for Structures	Cu. Yd.	----	97	97

* Indicates a Special Provision

INDIAN CREEK
BUILT 20XX
CITY OF AURORA
SEC. 11-00298-00-BR
F.A.U. RTE. 2421 STA. 105+66
STR. NO. 045-6053 LOADING HL-93

NAME PLATE

See Std. 515001

FILE NAME = W:\P\projects\2013\120179_Sheriff\PH\1\load\Structure\0\gn\0456053-982-Genere\1\Des\cdgn

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

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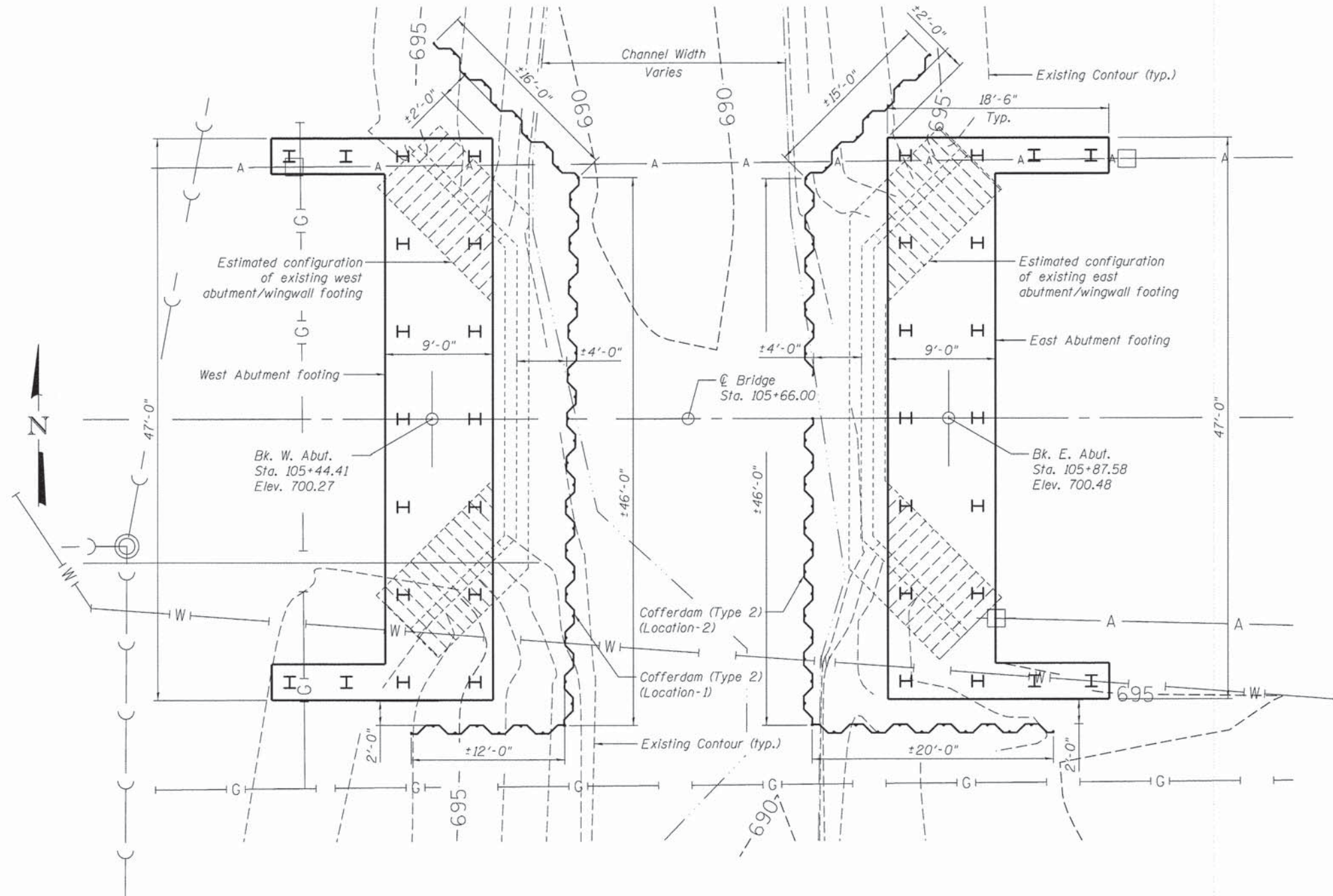
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES & BILL OF MATERIAL
STRUCTURE NO. 045-6053**

SHEET NO. 2 OF 18 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	44
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 61B08	

Indian Creek
Flow



PLAN

NOTES

1. Cofferdam (Type 2) (Location-1) and Cofferdam (Type 2) (Location-2) will be required for the removal of the existing abutment footings and for the construction of the new abutments.
2. The design, construction and required submittals for Cofferdam (Type 2) (Location-1) and Cofferdam (Type 2) (Location-2) shall conform to the special provision "Cofferdams".
3. The Cofferdam Water Elevation 694.45 is taken as 3 feet above the Estimated Water Surface Elevation 691.45. The top of cofferdam shall be set at or above Elevation 694.45.
4. Existing plans are not available for the existing bridge. Therefore, the foundation and footing geometry are not known, as is whether the foundation is supported on piles.
5. The construction of the new abutments and the installation of piles may interfere with the existing abutment foundations. After construction of the cofferdams, the Contractor is required to determine the extent and depth of the existing abutment and wingwall foundations and remove portions of the existing foundations for the construction of the new abutments.

BILL OF MATERIAL

Item	Unit	Quantity
Cofferdam (Type 2) (Location - 1)	Each	1
Cofferdam (Type 2) (Location - 2)	Each	1

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSTRUCTURE LAYOUT AND COFFERDAM DETAILS
STRUCTURE NO. 045-6053

SHEET NO. 3 OF 18 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	45
CONTRACT NO. 61B08				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				

NORTH CURB LINE

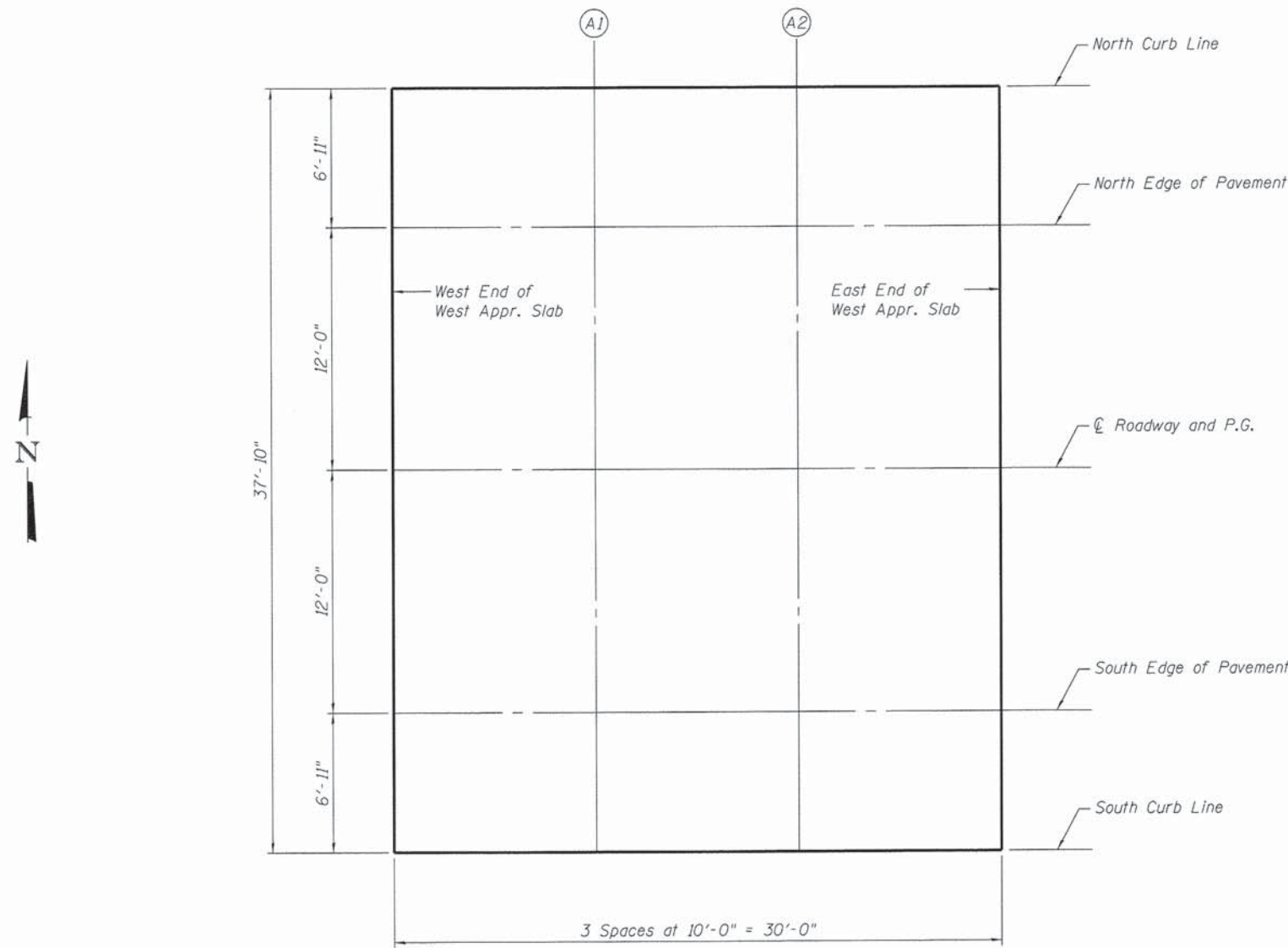
Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab	105+15.41	-18.92	699.82
A1	105+25.41	-18.92	699.87
A2	105+35.41	-18.92	699.92
E. End W. Appr. Slab	105+45.41	-18.92	699.97

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab	105+15.41	-12.00	699.93
A1	105+25.41	-12.00	699.98
A2	105+35.41	-12.00	700.03
E. End W. Appr. Slab	105+45.41	-12.00	700.08

☉ ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab	105+15.41	0.00	700.12
A1	105+25.41	0.00	700.17
A2	105+35.41	0.00	700.22
E. End W. Appr. Slab	105+45.41	0.00	700.27



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab	105+15.41	12.00	699.93
A1	105+25.41	12.00	699.98
A2	105+35.41	12.00	700.03
E. End W. Appr. Slab	105+45.41	12.00	700.08

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab	105+15.41	18.92	699.82
A1	105+25.41	18.92	699.87
A2	105+35.41	18.92	699.92
E. End W. Appr. Slab	105+45.41	18.92	699.97

FILE NAME = \\N:\Projects\2013\130179_Sheriff\PH\1\cadd\Structural\Drawings\105+15.41-105+45.41\105+15.41-105+45.41.dgn

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab	105+86.58	-18.92	700.18
A3	105+96.58	-18.92	700.23
A4	106+06.58	-18.92	700.28
E. End E. Appr. Slab	106+16.58	-18.92	700.33

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab	105+86.58	-12.00	700.29
A3	105+96.58	-12.00	700.34
A4	106+06.58	-12.00	700.39
E. End E. Appr. Slab	106+16.58	-12.00	700.44

☉ ROADWAY & P.G.

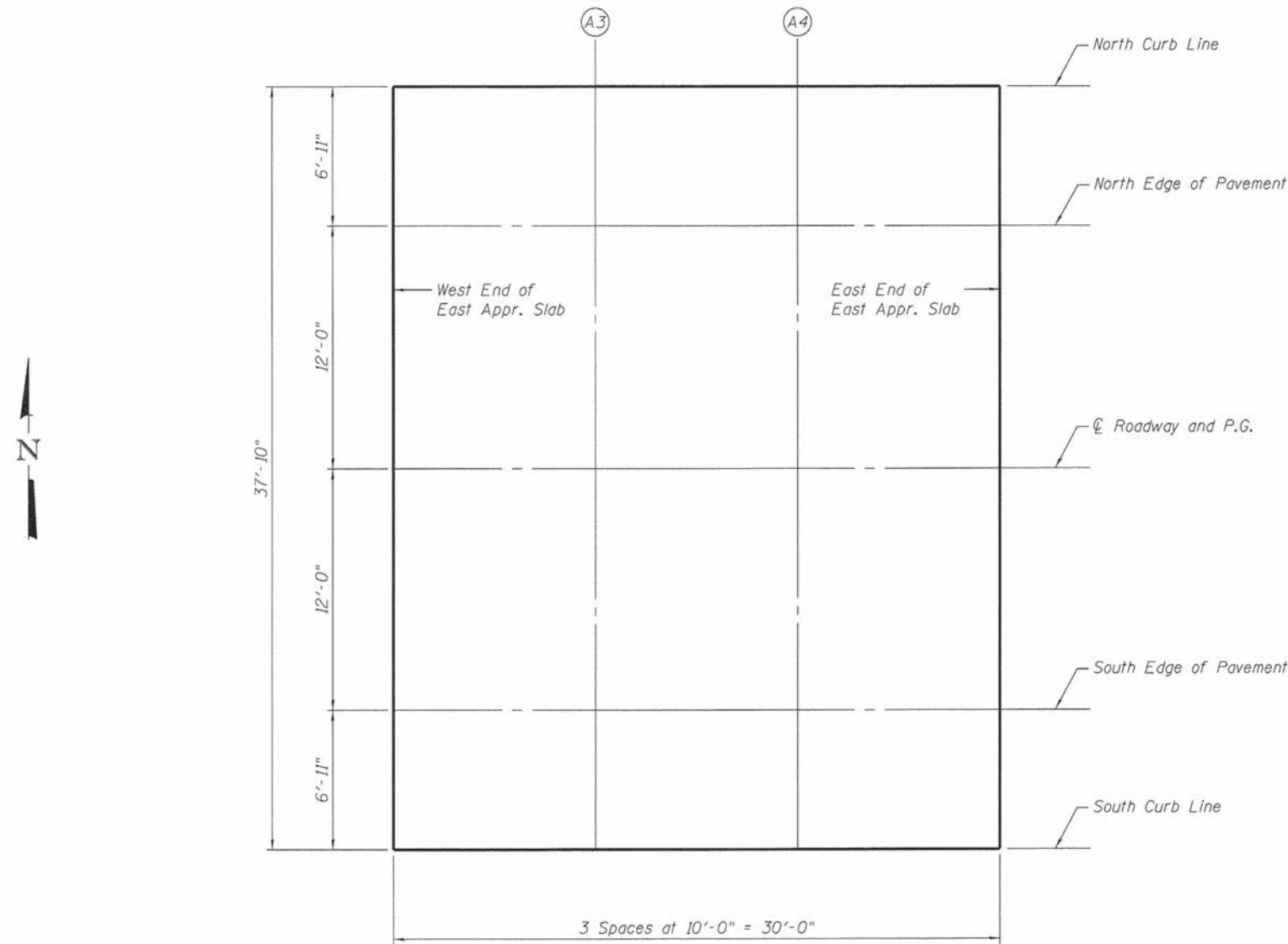
Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab	105+86.58	0.00	700.48
A3	105+96.58	0.00	700.53
A4	106+06.58	0.00	700.58
E. End E. Appr. Slab	106+16.58	0.00	700.63

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab	105+86.58	12.00	700.29
A3	105+96.58	12.00	700.34
A4	106+06.58	12.00	700.39
E. End E. Appr. Slab	106+16.58	12.00	700.44

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab	105+86.58	18.92	700.18
A3	105+96.58	18.92	700.23
A4	106+06.58	18.92	700.28
E. End E. Appr. Slab	106+16.58	18.92	700.33



PLAN

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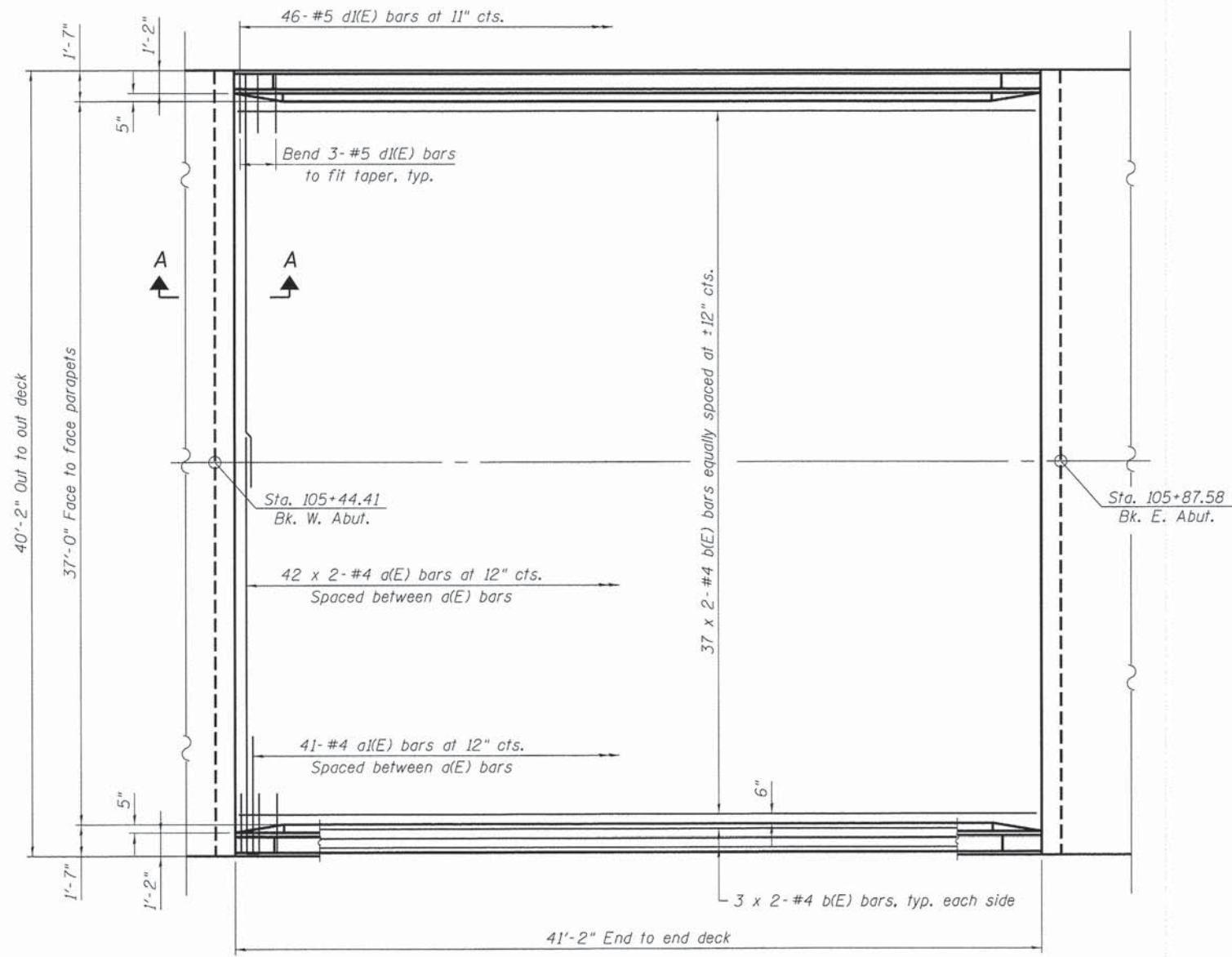
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 045-6053**

SHEET NO. 5 OF 18 SHEETS

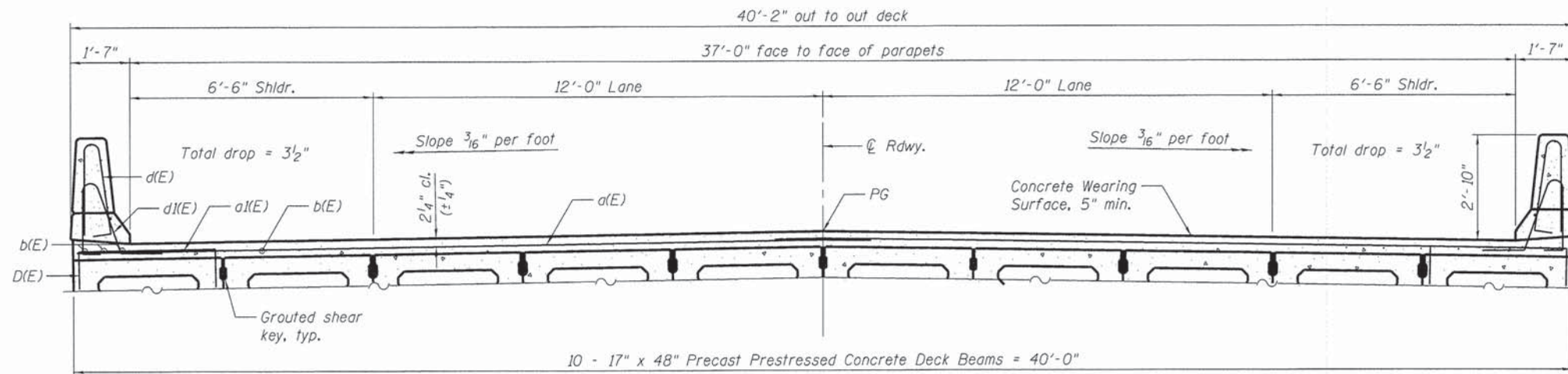
FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

CONTRACT NO. 61B08

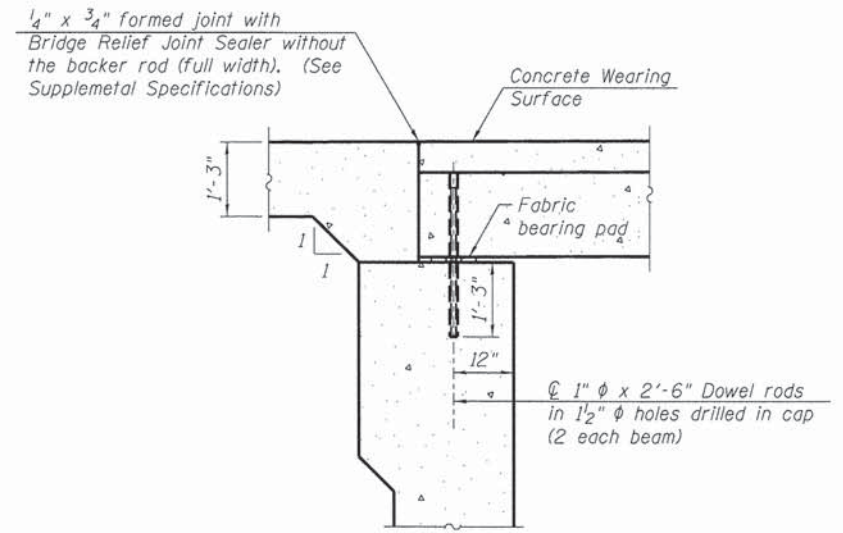


PLAN

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



CROSS SECTION



SECTION A-A

All concrete wearing surfaces shall be placed prior to casting the approach slab.

See Sheet 13 of 18 for fabric bearing pad details.

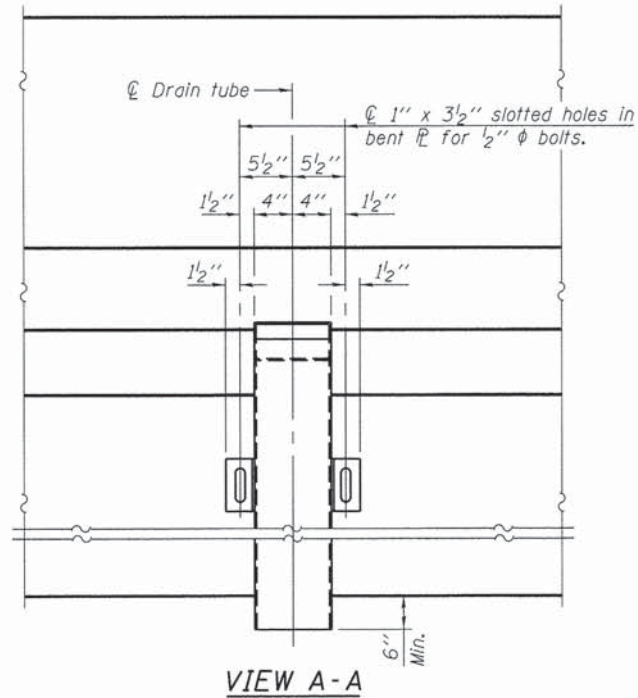
NOTES

1. See Sheets 7 & 8 of 18 for Superstructure Details and Bill of Material.
2. Bars indicated thus 42 x 2-#4 etc. indicates 42 lines of bars with 2 lengths per line.

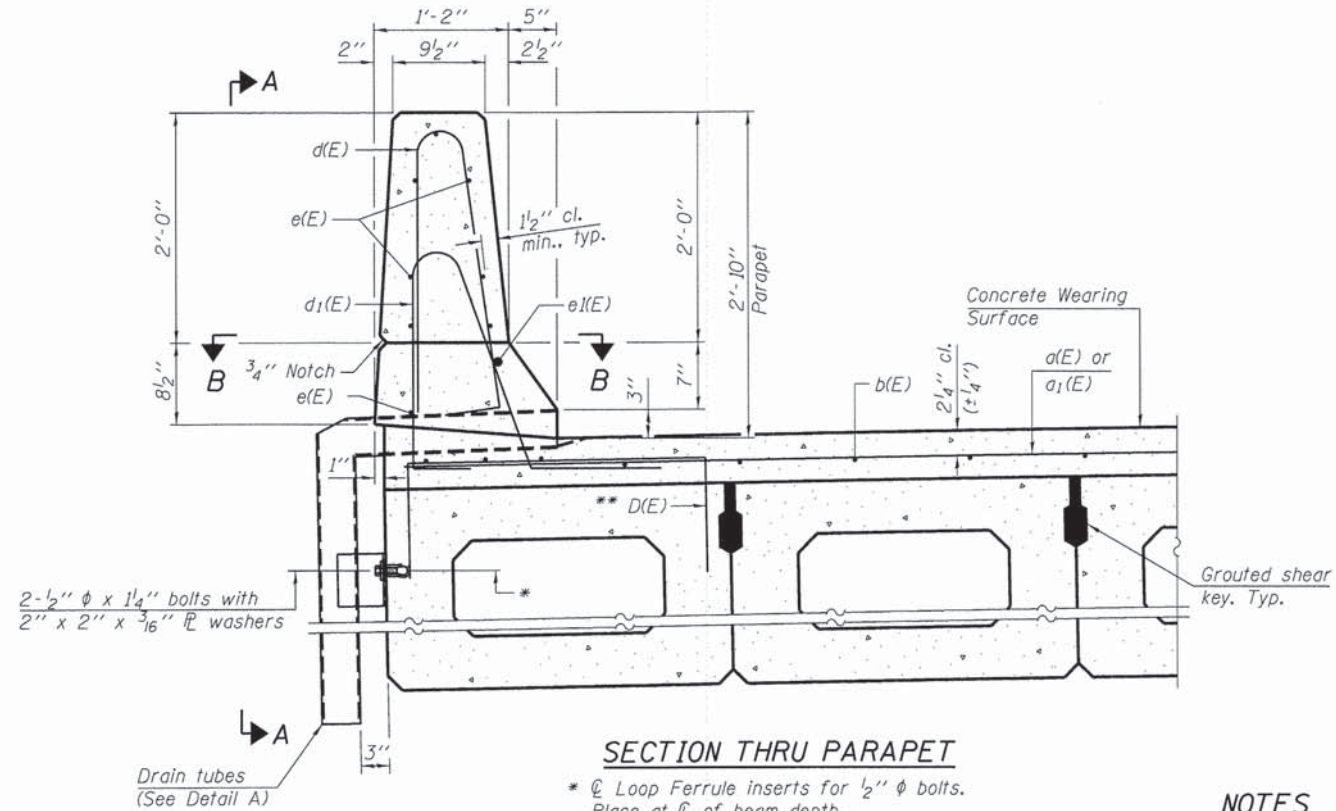
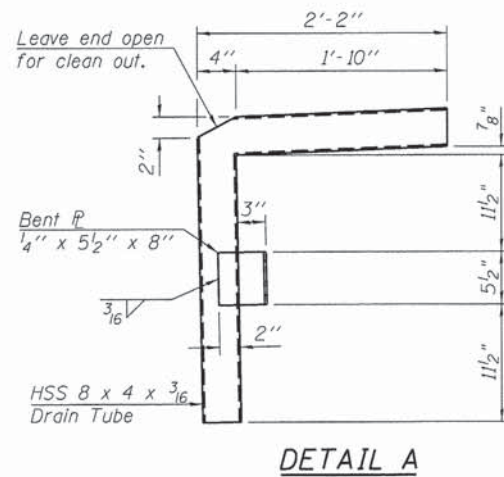
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			CONTRACT NO. 61B08	

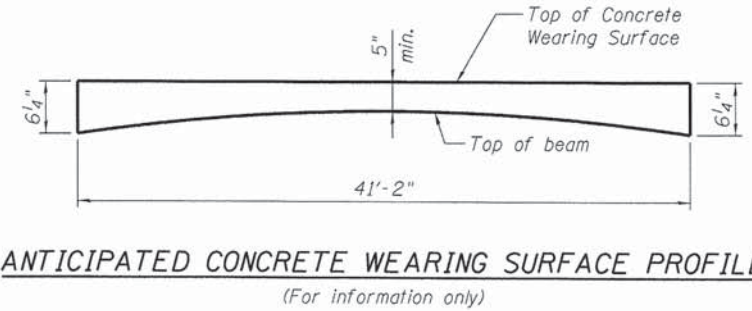
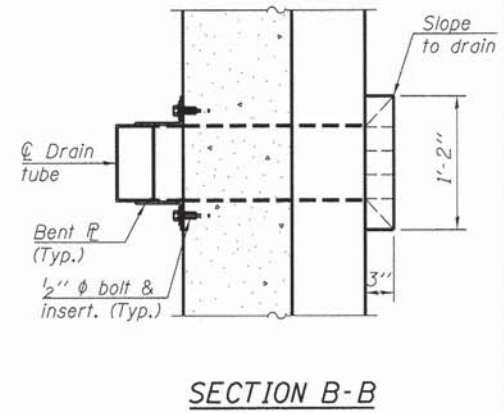


Note:
 All drain tubes and accessories shall be galvanized according to AASHTO M111 or M232, (as applicable).
 The cost of the drain tube assemblies and everything necessary for their installation is included with Concrete Superstructure.



SECTION THRU PARAPET
 * Loop Ferrule inserts for 1/2 inch phi bolts. Place at center of beam depth.
 ** Place #4 D(E) bars at 9 inch cts. in fascia beam. D(E) bar included in cost of beam.

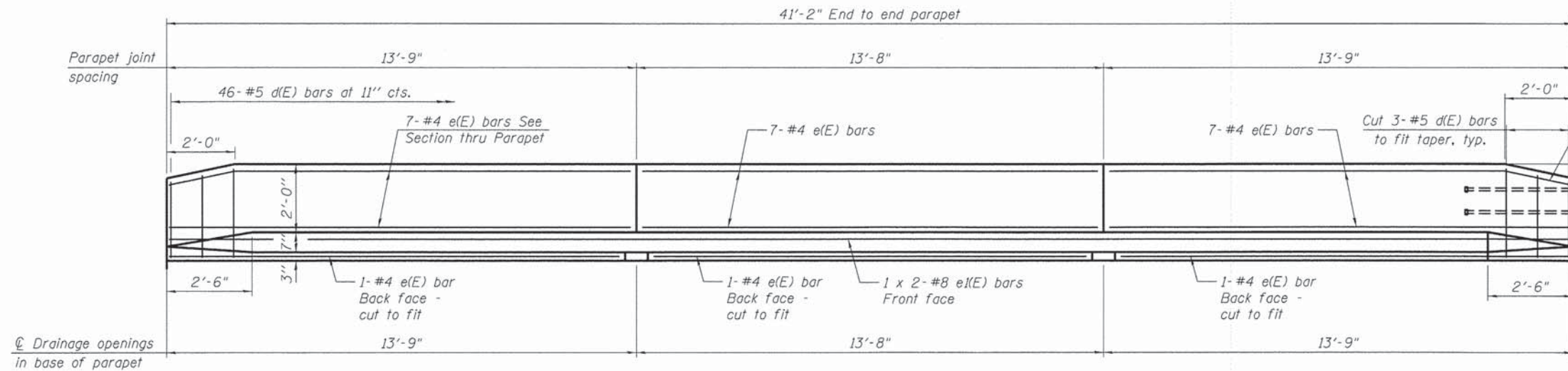
NOTES
 See Sheets 8 of 17 for Superstructure Details and Bill of Material.



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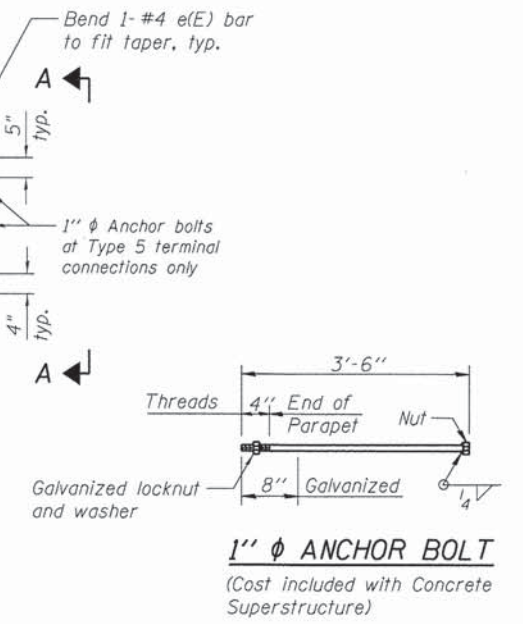
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CONTRACT NO. 61B08				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



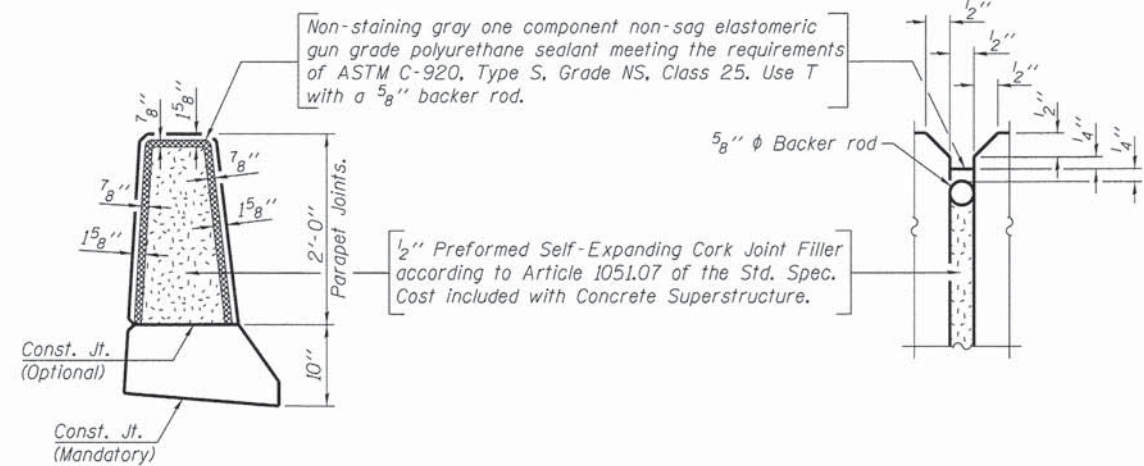
INSIDE ELEVATION OF PARAPET

MINIMUM BAR LAP

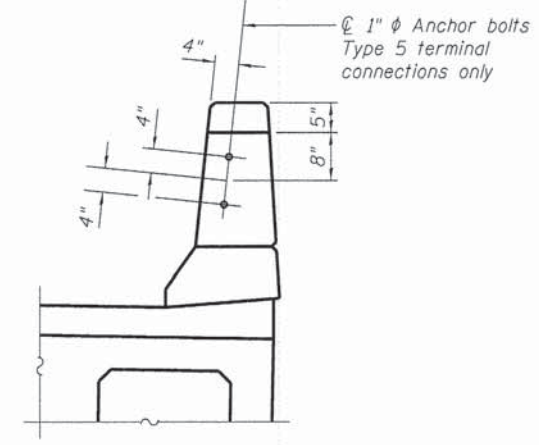
#4 bar = 2'-0"
#8 bar = 5'-2"



1" diameter ANCHOR BOLT
(Cost included with Concrete Superstructure)



PARAPET JOINT DETAILS



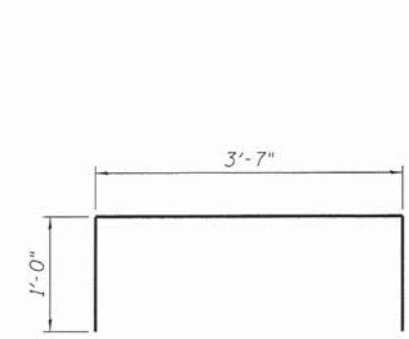
VIEW A-A

NOTES

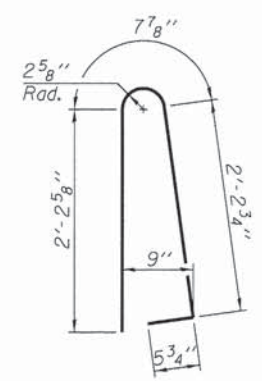
- For parapet and drainage details, see Sheet 7 of 18.
- Traffic Barrier Terminal, Type 5 shall be installed at the northwest and southeast ends of the bridge parapet. Traffic Barrier Terminal, Type 6 (Special) shall be installed at the southwest and northeast ends of the bridge parapet.
- Bars indicated thus 1 x 2 #8 e(E) bars indicates 1 line of bars with 2 lengths per line.

SUPERSTRUCTURE BILL OF MATERIAL

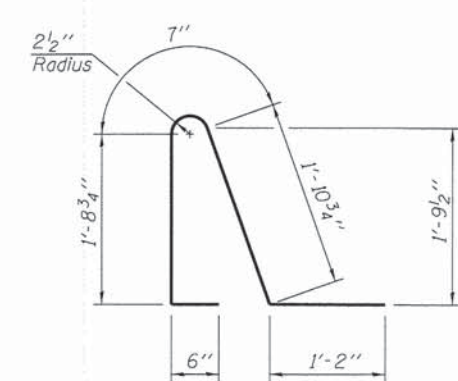
Bar	No.	Size	Length	Shape
a(E)	84	#4	21'-3"	—
a(E)	82	#4	6'-0"	—
b(E)	86	#4	21'-9"	—
d(E)	92	#5	5'-7"	∩
d(E)	92	#5	5'-11"	∩
e(E)	48	#4	13'-5"	—
e(E)	4	#8	23'-0"	—
Description		Unit	Quantity	
Concrete Superstructure		Cu. Yd.	9.2	
Bridge Deck Grooving		Sq. Yd.	170	
Protective Coat		Sq. Yd.	212	
Reinforcement Bars, Epoxy Coated		Pound	4,550	
Concrete Wearing Surface, 5"		Sq. Yd.	184	



BAR D(E)



BAR d(E)



BAR d1(E)

FILE NAME = MAP\projects\2813\130179_Sheffer\PHI\cadd\Structure\1\09\04\56953-088_Superstructure D1s 02.dgn

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

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

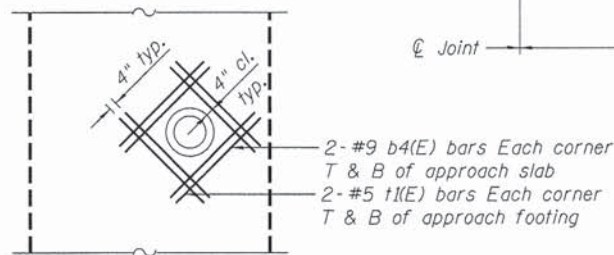
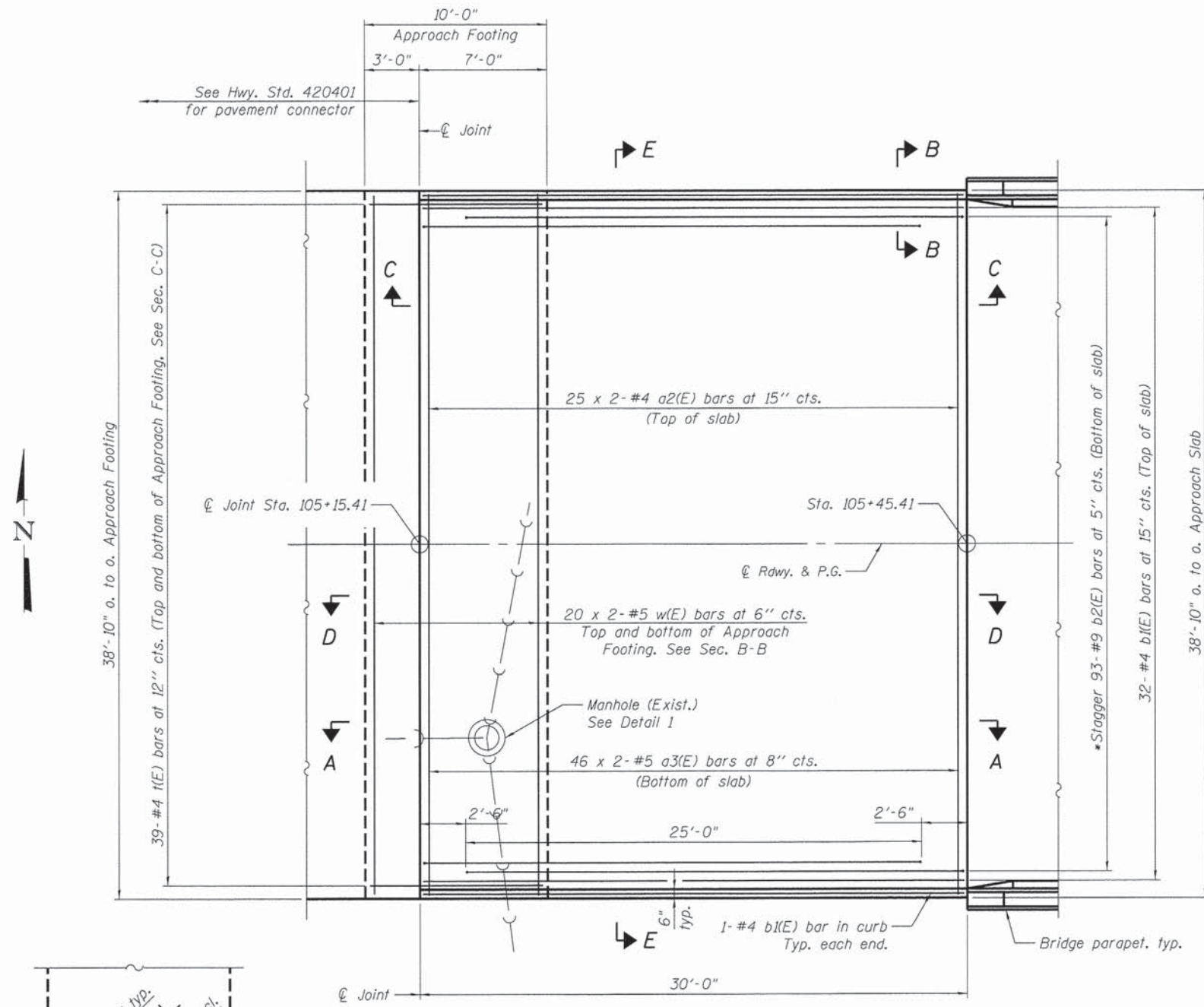
SUPERSTRUCTURE DETAILS II
STRUCTURE NO. 045-6053

SHEET NO. 8 OF 18 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	50
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 61B08	

NOTES

1. See Sheet 11 of 18 for Sections D-D & E-E.
2. a2(E) and a3(E) bar spacings measured along \bar{C} Rdwy.



DETAIL 1

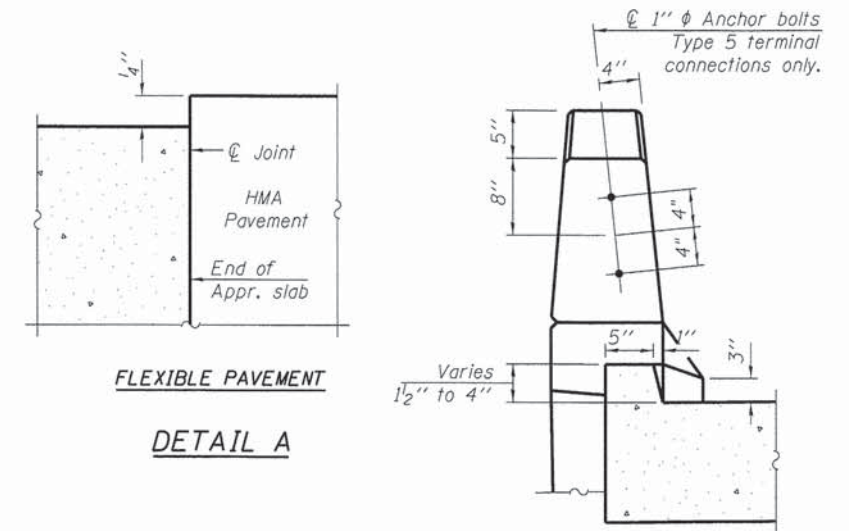
Reinforcement around manhole penetration

PLAN

* Tilt #9 b2(E) bars as required to maintain clearance.

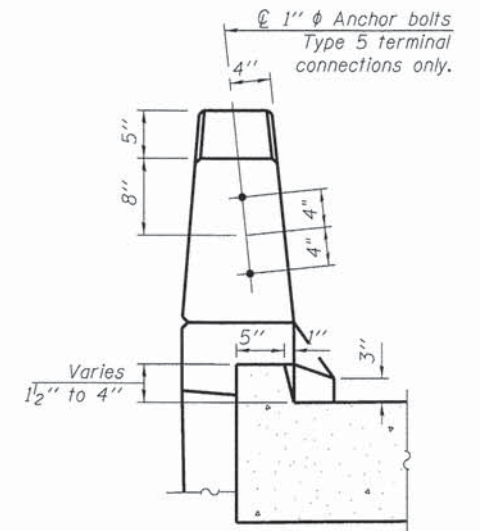
MINIMUM BAR LAP

#4 bar = 2'-1"
#5 bar = 2'-7"

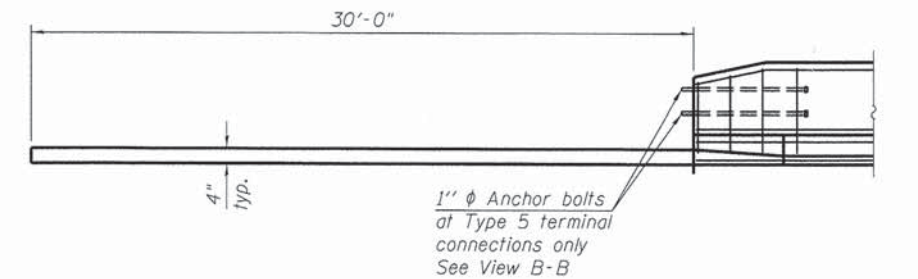


FLEXIBLE PAVEMENT

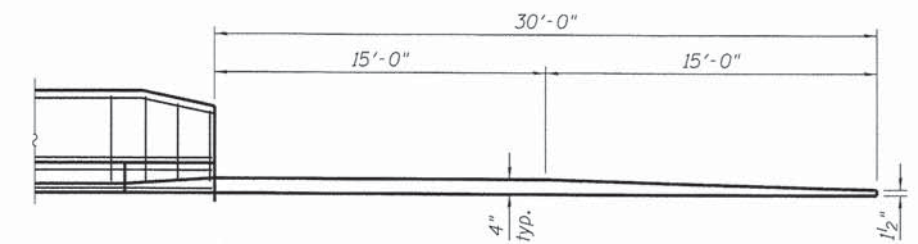
DETAIL A



VIEW B-B



VIEW C-C



VIEW A-A

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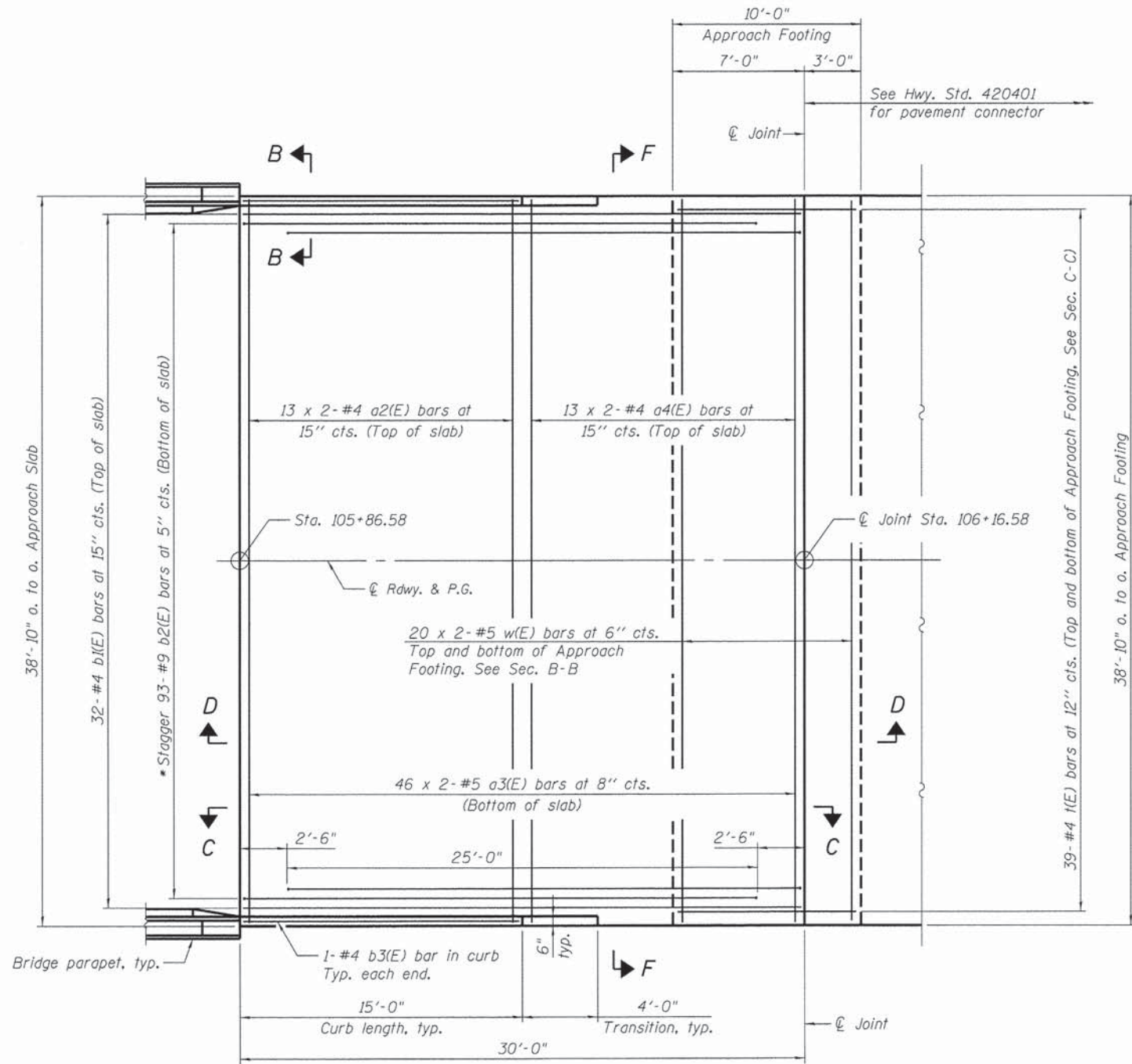
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WEST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 045-6053**

SHEET NO. 9 OF 18 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	51
CONTRACT NO. 61B08				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



PLAN

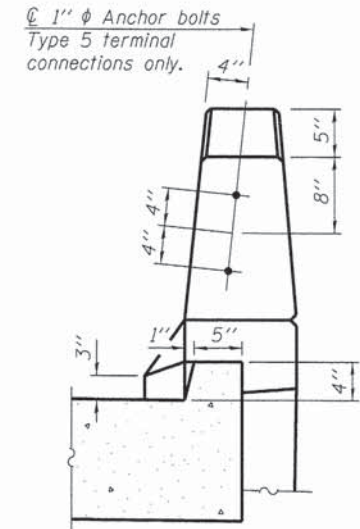
MINIMUM BAR LAP

- #4 bar = 2'-1"
- #5 bar = 2'-7"

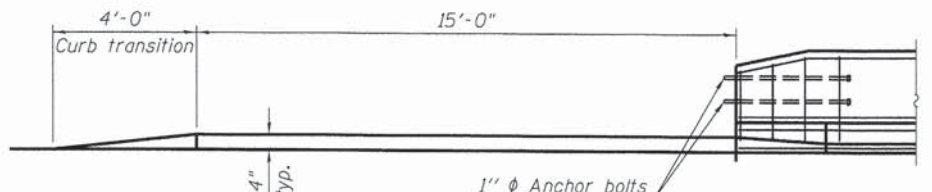
* Tilt #9 b2(E) bars as required to maintain clearance.

NOTES

1. See Sheet 11 of 18 for Sections D-D & F-F.
2. a2(E) and a3(E) bar spacings measured along $\text{\textcircled{C}}$ Rdwy.



VIEW B-B



VIEW C-C

FILE NAME = M:\Projects\2013\130179_Sheffer\Ph\I\Coadd\Structure\Drawings\0456053-010-East_BridgeApproach_Slab_Details.dgn

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

USER NAME = nparris	DESIGNED - DLS	REVISED -
PLOT SCALE = @SCALE*	CHECKED - AEU	REVISED -
PLOT DATE = 12/15/2014	DRAWN - DLS	REVISED -
	CHECKED - AEU	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EAST BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 045-6053**

SHEET NO. 10 OF 18 SHEETS

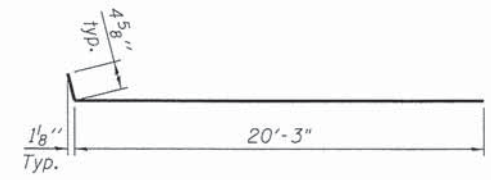
FAU RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 52
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61B08	

NOTES

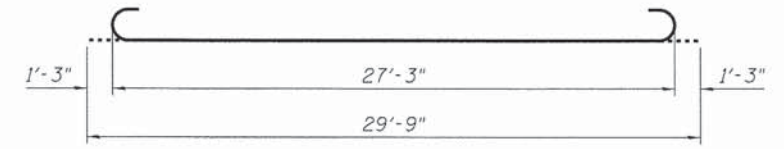
1. See Sheet 9 of 18 for Detail A.
2. Approach slab shall be paid for as Concrete Superstructure.
3. Approach footing concrete shall be paid for as Concrete Structures.
4. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
5. For v4(E) bar details, see Sheets 14 & 15 of 18.
6. The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
7. Cost of excavation for approach footing included with Concrete Structures.
8. For Granular Backfill for Structures and drainage treatment details, see Sheet 14 of 18.

* Tilt #9 b₂(E) bars as required to maintain clearance.

*** Cost included with Concrete Superstructure.



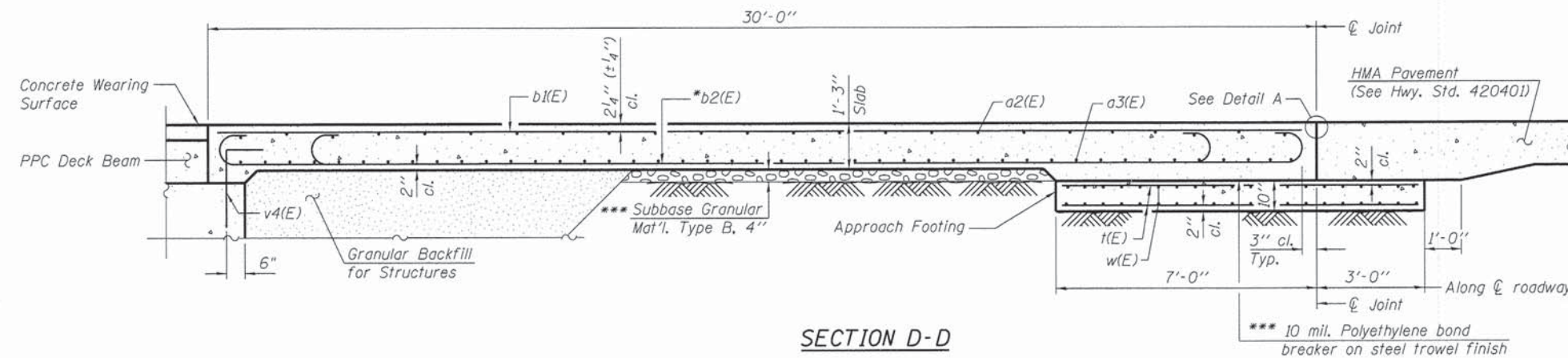
BAR a2(E)



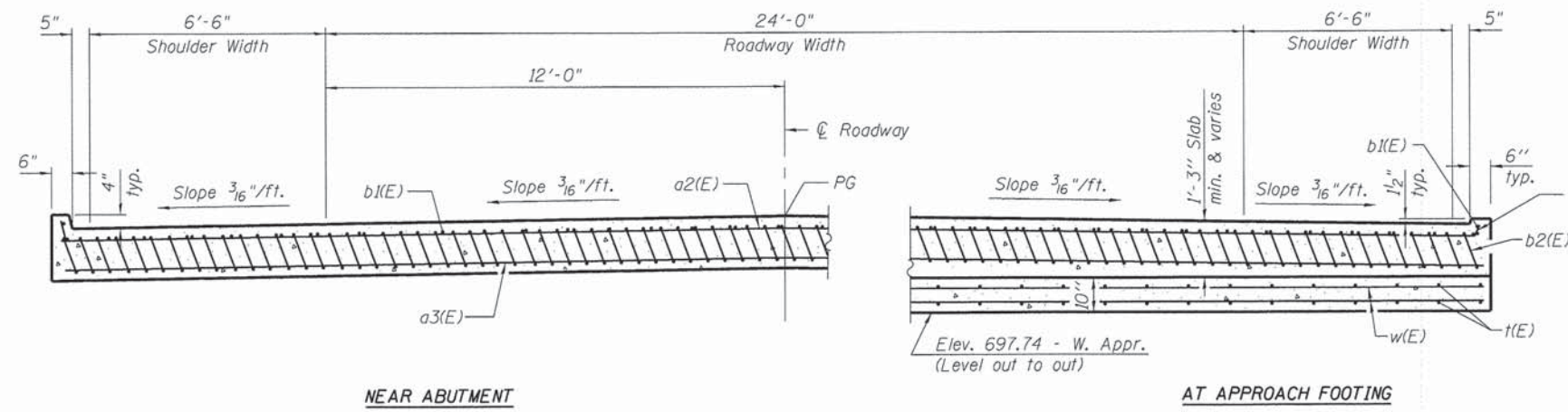
BAR b2(E)

**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a2(E)	76	#4	20'-8"	—
a3(E)	184	#5	20'-7"	—
a4(E)	26	#4	20'-6"	—
b1(E)	66	#4	29'-8"	—
b2(E)	186	#9	29'-9"	—
b3(E)	2	#4	14'-8"	—
b4(E)	16	#9	6'-0"	—
t(E)	156	#4	9'-8"	—
1(E)	16	#5	5'-0"	—
w(E)	160	#5	20'-7"	—
Description	Unit	Quantity		
Concrete Structures	Cu. Yd.	24.0		
Concrete Superstructure	Cu. Yd.	136.8		
Bridge Deck Grooving	Sq. Yd.	253		
Protective Coat	Sq. Yd.	262		
Reinforcement Bars, Epoxy Coated	Pound	30,350		



SECTION D-D

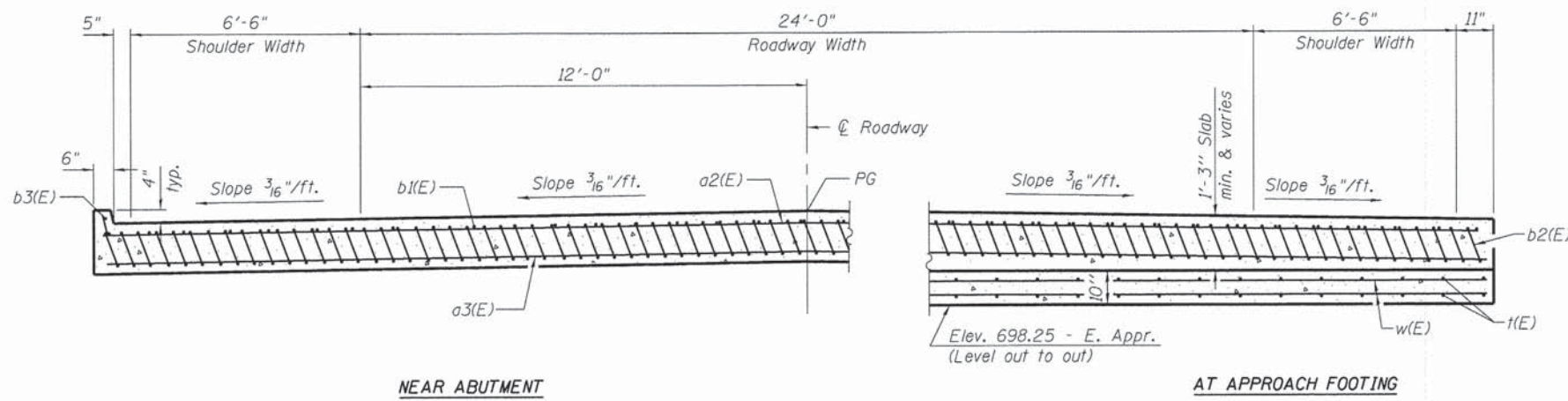


NEAR ABUTMENT

AT APPROACH FOOTING

SECTION E-E

WEST APPROACH
(See Plan for dimensions not shown)



NEAR ABUTMENT

AT APPROACH FOOTING

SECTION F-F

EAST APPROACH
(See Plan for dimensions not shown)

FILE NAME = W:\Projects\2013\130179_SheriffPh11\Road\Structure\10\BridgAppr\Slab_D11.dgn

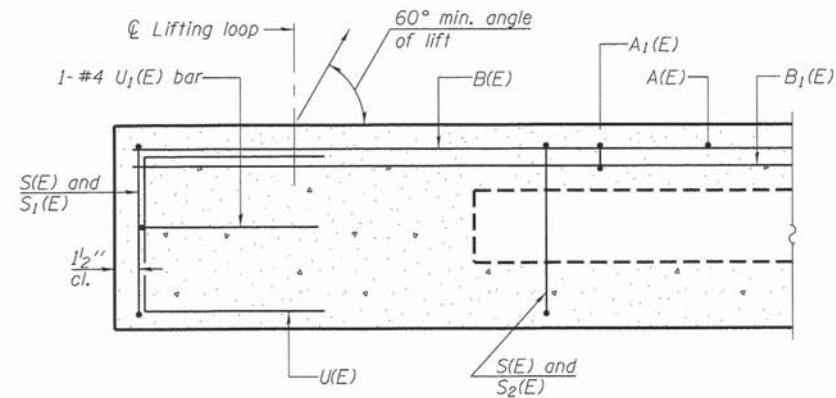
WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174

USER NAME = nparris	DESIGNED - DLS	REVISED -
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PLOT DATE = 12/15/2014	DRAWN - DLS	REVISED -
	CHECKED - AEU	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

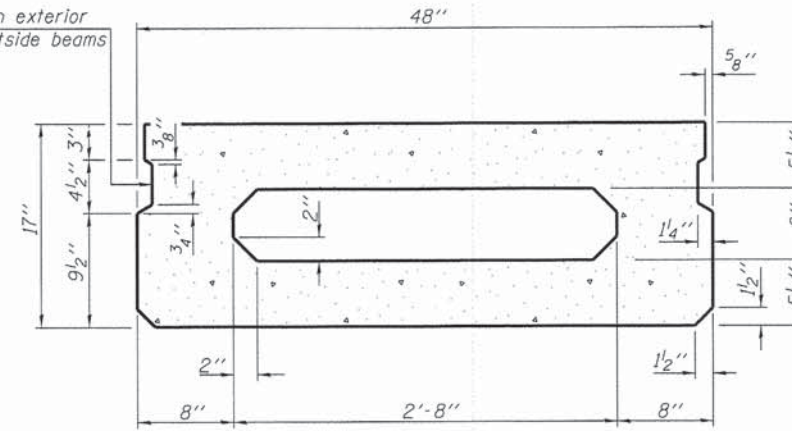
**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 045-6053**

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	53
SHEET NO. 11 OF 18 SHEETS			CONTRACT NO. 61B08	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

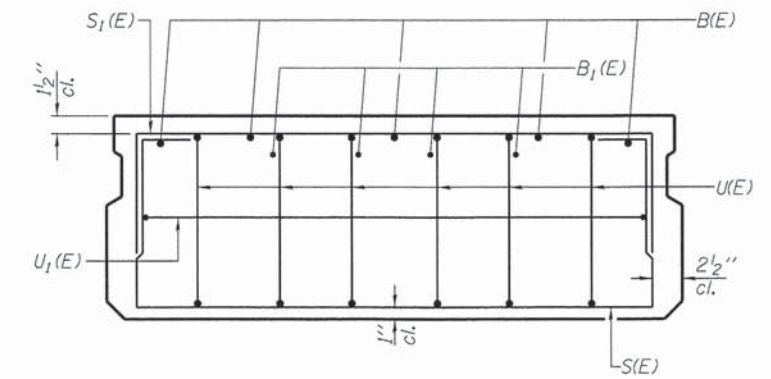


SECTION A-A

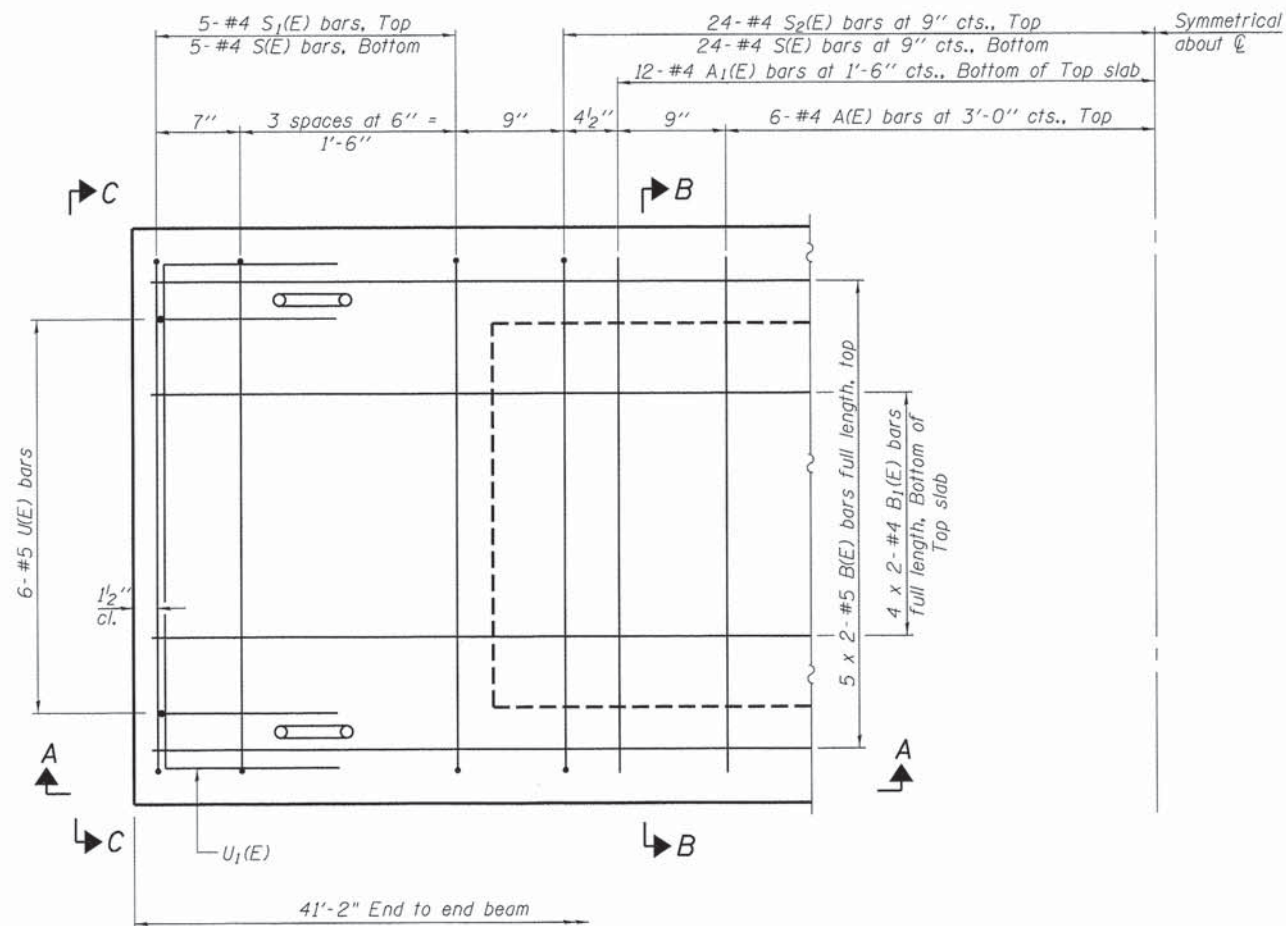
Omit key on exterior
Face of outside beams



SECTION B-B
(Showing dimensions)

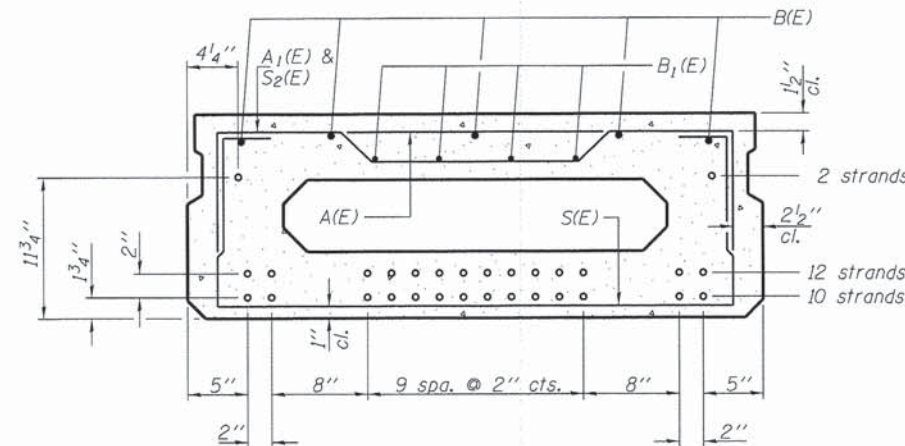


VIEW C-C



PLAN VIEW

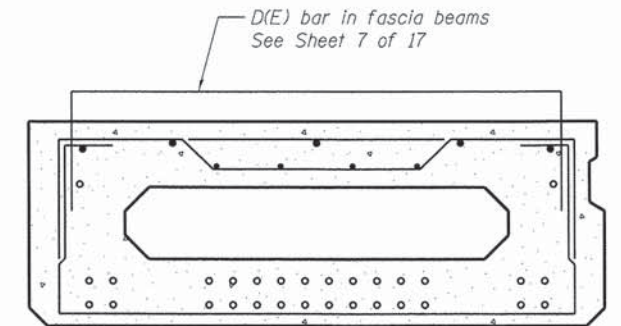
Note: Spacing of S(E) and S₂(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION B-B

(Showing reinforcement and permissible strand locations)
24 - 1/2" ϕ Strands
(10 strands 1 3/4" up, 12 strands 3 3/4" up & 2 strands 11 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.



SECTION THRU FASCIA BEAM

BAR LIST
ONE BEAM ONLY
(For information only)

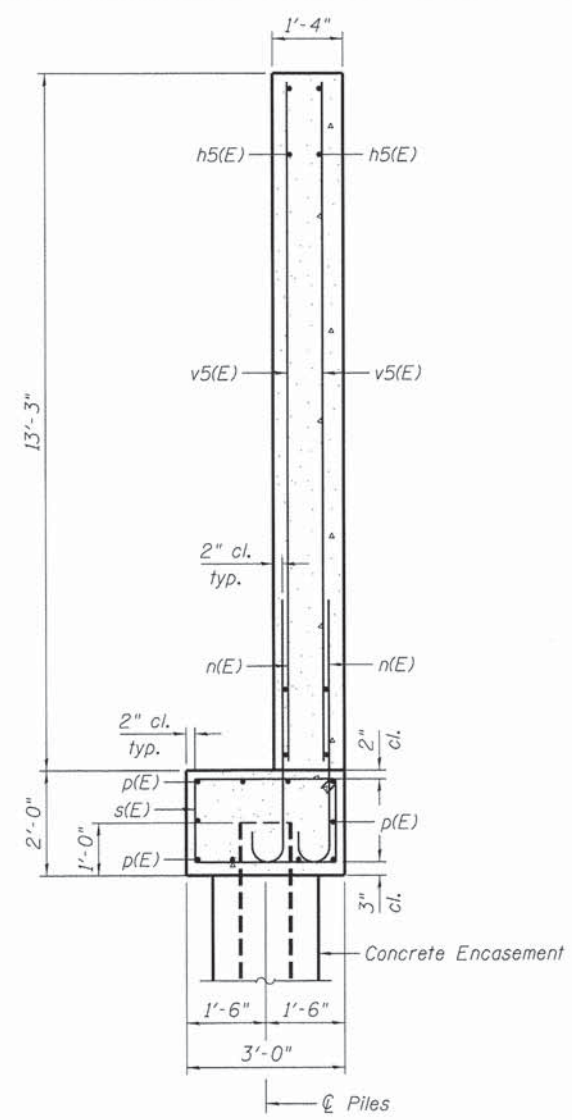
Bar	No.	Size	Length	Shape
A(E)	12	#4	3'-7"	—
A ₁ (E)	24	#4	3'-10"	—
B(E)	10	#5	2'-8"	—
B ₁ (E)	8	#4	2'-5"	—
S(E)	58	#4	6'-9"	U
S ₁ (E)	10	#4	5'-3"	U
S ₂ (E)	48	#4	5'-6"	U
U(E)	12	#5	3'-8"	U
U ₁ (E)	2	#4	6'-0"	U

Note: See Sheet 13 of 18 for additional details and Bill of Material.

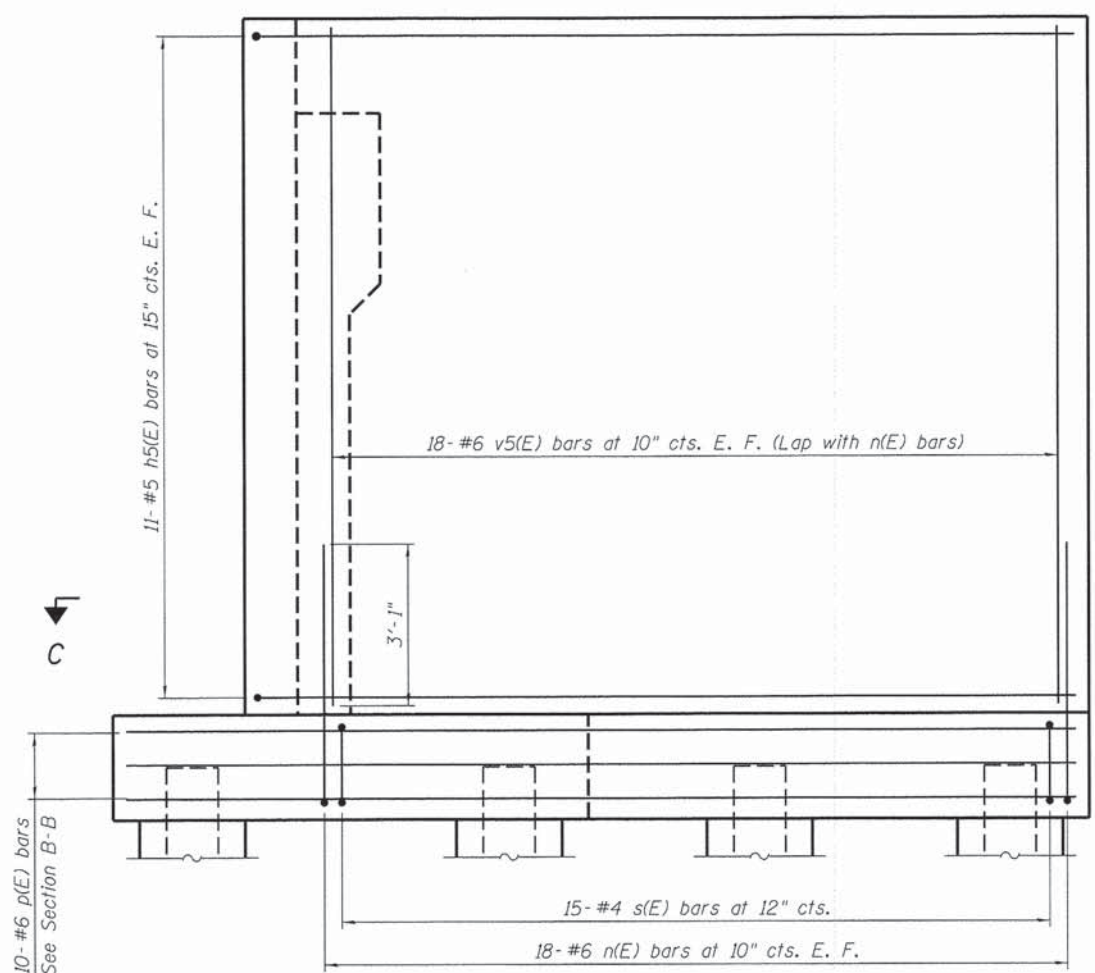
MINIMUM BAR LAP

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

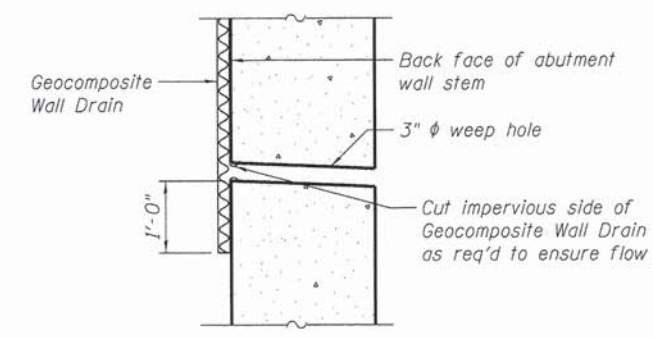
FILE NAME: M:\Projects\2013\130179_Sheriff\Ph11\cadd\Structure\11-Deck Beam.dgn



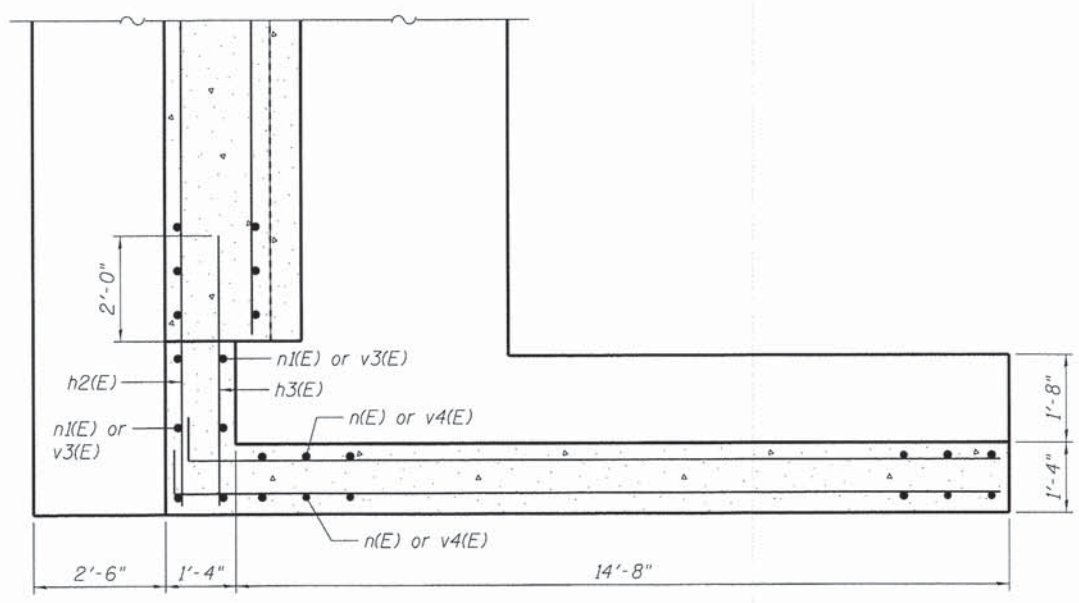
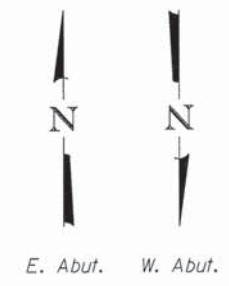
SECTION B-B



VIEW A-A
WINGWALL ELEVATION



ABUTMENT WEEP HOLE
DRAIN DETAIL

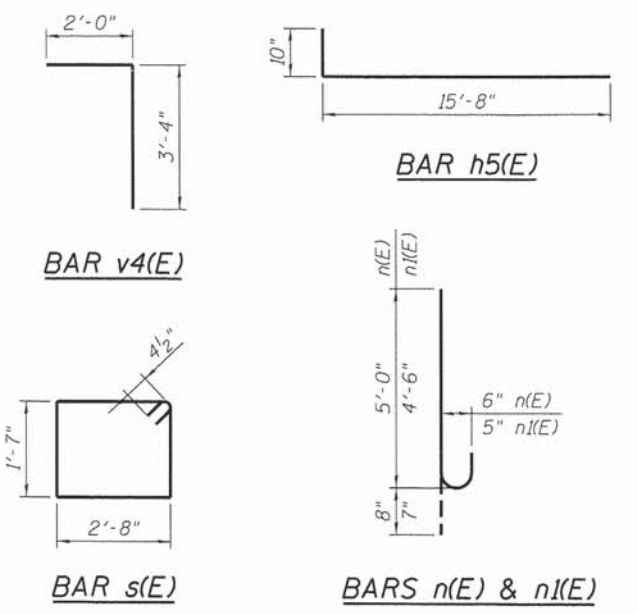


SECTION C-C
PARTIAL PLAN

BILL OF MATERIAL

(Two Abutments)

Bar	No.	Size	Length	Shape
h(E)	12	#6	21'-7"	—
h1(E)	18	#5	21'-4"	—
h2(E)	18	#5	24'-8"	—
h3(E)	18	#5	5'-2"	—
h4(E)	24	#5	2'-11"	—
h5(E)	88	#5	16'-6"	—
n(E)	226	#6	5'-8"	U
n1(E)	122	#5	5'-1"	U
p(E)	40	#6	18'-2"	—
s(E)	60	#4	9'-3"	□
t1(E)	108	#7	8'-6"	—
t2(E)	96	#5	8'-6"	—
w1(E)	128	#5	24'-7"	—
v(E)	82	#6	10'-10"	—
v1(E)	98	#5	10'-10"	—
v2(E)	98	#5	10'-5"	—
v3(E)	24	#5	12'-11"	—
v4(E)	82	#5	5'-4"	—
v5(E)	144	#6	12'-10"	—
Description	Unit	Quantity		
Cofferdam Excavation	Cu. Yd.	714		
Concrete Structures	Cu. Yd.	192.3		
Concrete Encasement	Cu. Yd.	12.6		
Reinforcement Bars, Epoxy Coated	Pound	20,050		
Furnishing Steel Piles	Foot	1,054		
HP 12x63				
Driving Piles	Foot	1,054		
Test Pile Steel	Each	2		
HP 12x63				
Pile Shoes	Each	36		



FILE NAME: M:\Projects\2013\130179_Sheriff\Ph1\Voadd\Structure\1\Drawn\456853-015_Abutment_Details.dgn

WBK WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60114

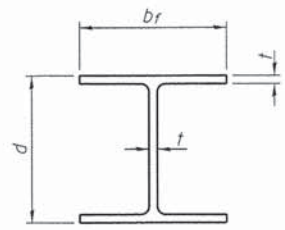
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PLOT DATE = 12/15/2014	DRAWN - DLS	REVISED -
	CHECKED - AEU	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT / WINGWALL DETAILS
STRUCTURE NO. 045-6053

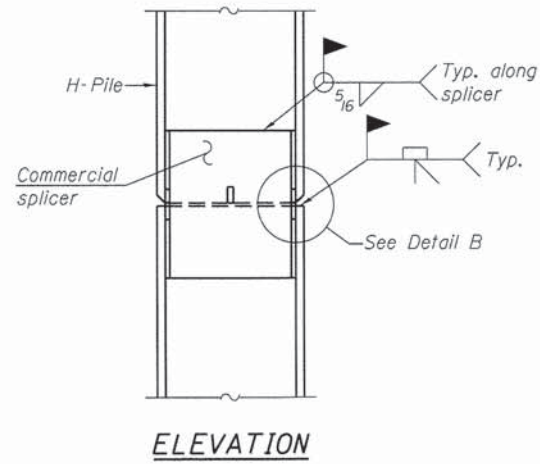
SHEET NO. 15 OF 18 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61B08				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

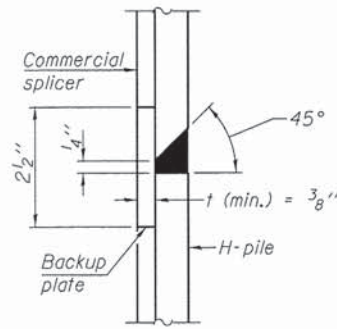


STEEL PILE TABLE

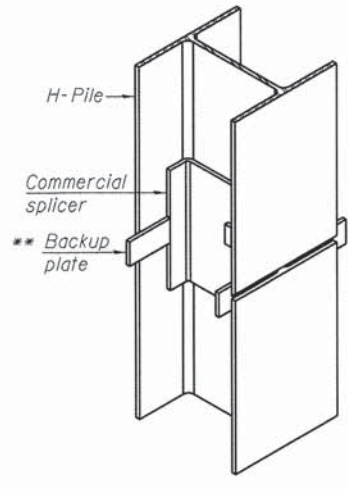
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
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

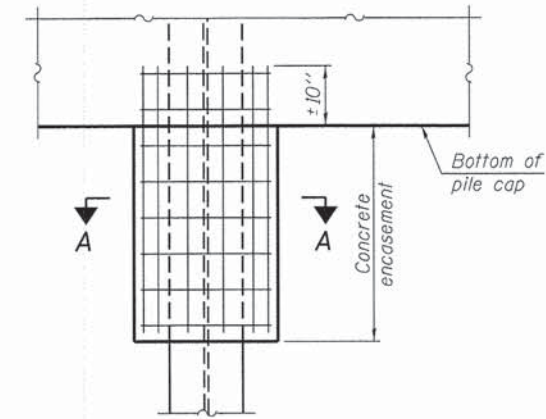


DETAIL "B"



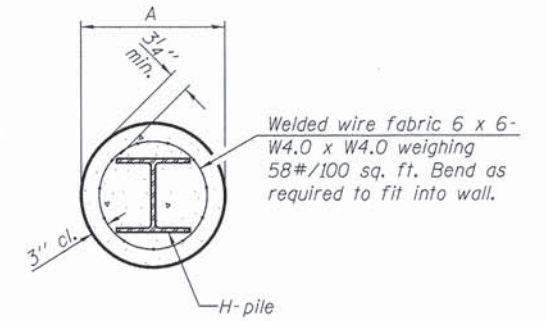
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



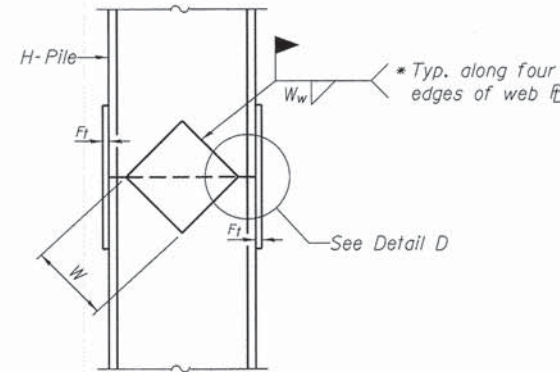
ELEVATION

PILE ENCASEMENT

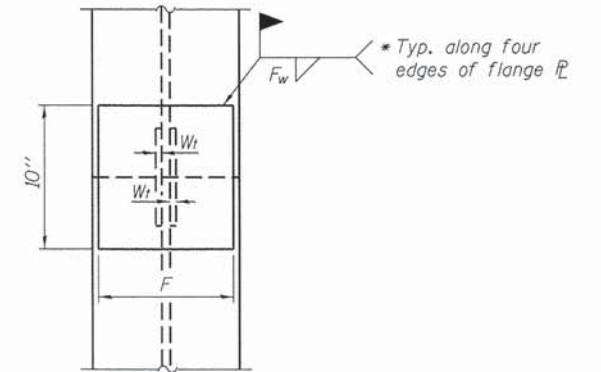


SECTION A-A

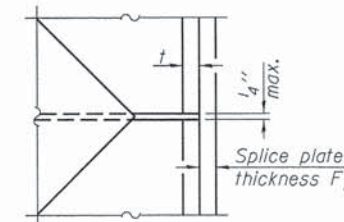
Note: Forms for encasement may be omitted when soil conditions permit.



ELEVATION



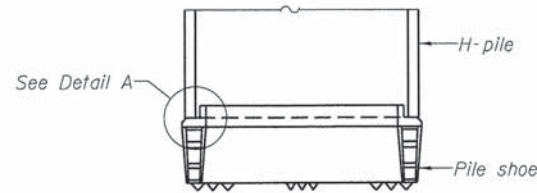
END VIEW



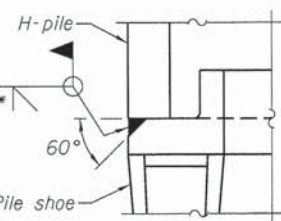
DETAIL D

WELDED PLATE FIELD SPLICE

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

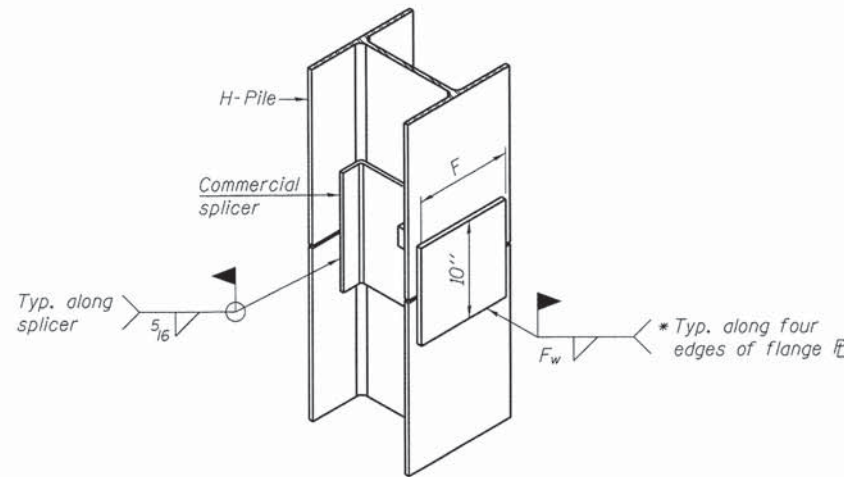


ELEVATION



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.

F-HP 1-27-12



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PLOT DATE = 12/15/2014	DRAWN - DLS	REVISED -
	CHECKED - AEU	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 045-6053

SHEET NO. 16 OF 18 SHEETS

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	58
CONTRACT NO. 61B08				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

Testing Service Corporation
STRUCTURE BORING LOG

Page 2 of 2
Date Started 7/20/12
Date Completed 7/20/12

PROJECT Bridge Replacement, Scheffer Road over Indian Creek, Aurora, Illinois
CLIENT Wills Burke Kelsey Associates, Ltd., St. Charles, Illinois
BORING SC-1 DATE STARTED 7-31-12 DATE COMPLETED 7-31-12 JOB L-78,615



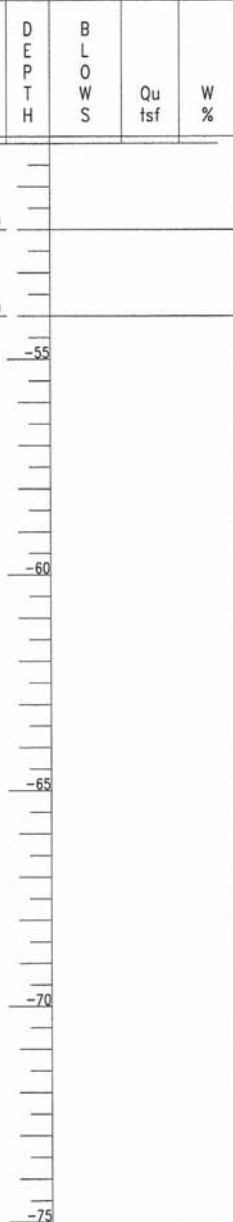
STRUCTURE NO. 045-6053
ROUTE 2451
SECTION 11-00298-00-BR
COUNTY Kane

ELEVATIONS
GROUND SURFACE 689.9
END OF BORING 674.9
Sta. 105+66; 21.2' RT
WATER LEVEL OBSERVATIONS
WHILE DRILLING In Standing Creek Water
AT END OF BORING
24 HOURS

Boring No.	SB-2	D	B		
Station	105+87	E	L		
Offset	10.30ft LT	P	O		
Elevation	648.80 ft	T	W	Qu	W
		H	S	tsf	%

See Page 1

646.80
DOLOMITE, Dark gray, silty medium bedded with dark gray clay partings, occasional vugs up to 1"
644.80
End of Boring at 54.0'



L007_BORING 78615 1001.GPJ 1001.CAT 9/25/14

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

LENGTH RECOVERY	SAMPLE NO.	TYPE	N	WC	Qu	Y DRY	DEPTH	ELEV.	SOIL DESCRIPTIONS
0	1	SS		11.9			3.0	686.9	FILL - Brown SAND and GRAVEL, trace silt and clay, saturated A-1-a
5	2	SS		15.4	2.15 3.0*				Sample 2: LL/PL/PI = 27/14/13 Very stiff gray CLAY, little gravel, occasional sand seams, moist A-6
10	3	SS		16.3	2.5*		8.0	681.9	
15	4	SS		17.2	3.60 3.5*				
20	5	SS		16.7	2.5*				Very stiff gray CLAY LOAM, trace gravel, moist A-6
25	6	SS		16.6	2.5*				
									End of Boring at 15.0' * Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

TSC 78615.GPJ TSC_ALL.CAT 9/25/14

DRILL RIG NO. HA

Division lines between deposits represent approximate boundaries between soil types; In-situ, the transition may be gradual.

FILE NAME = K:\Projects\2013\13079_Sheffer\PHI\Acadd\Structural\Dgn\0456053-018_Soil Borings_11.dgn



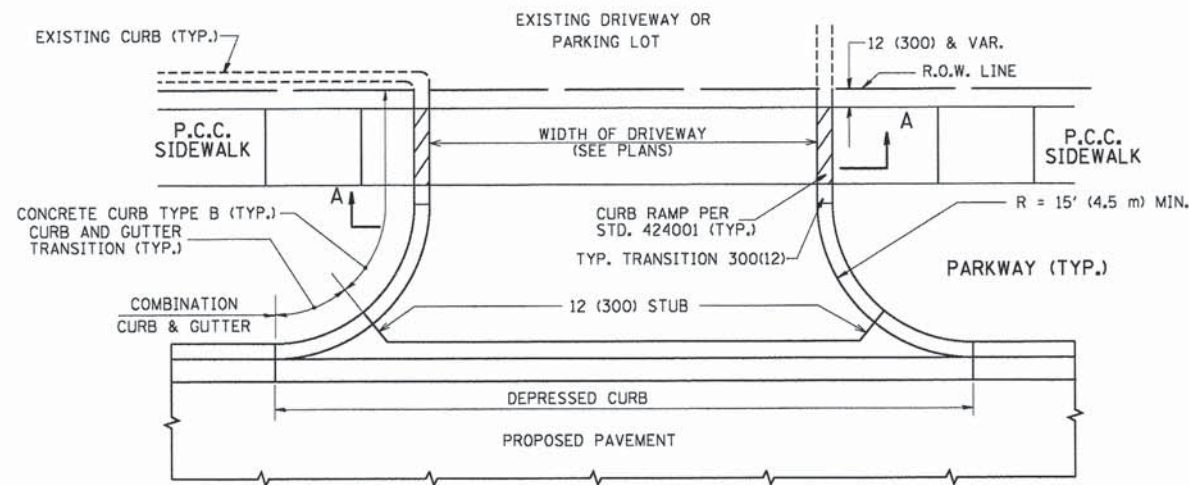
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

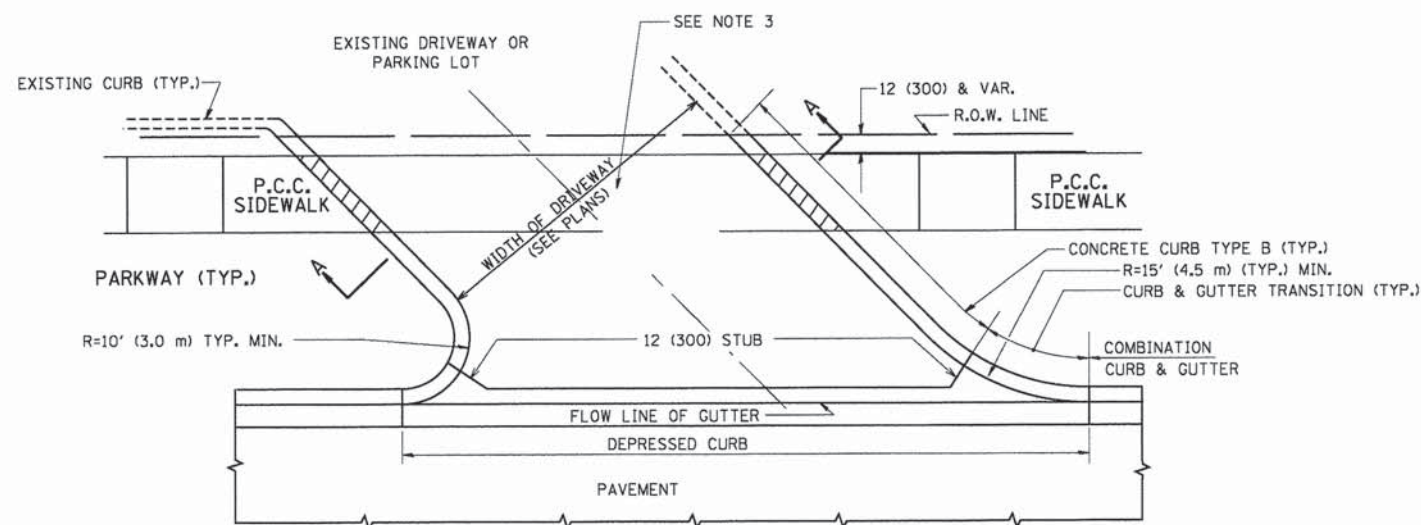
SOIL BORING LOGS II
STRUCTURE NO. 045-6053

SHEET NO. 18 OF 18 SHEETS

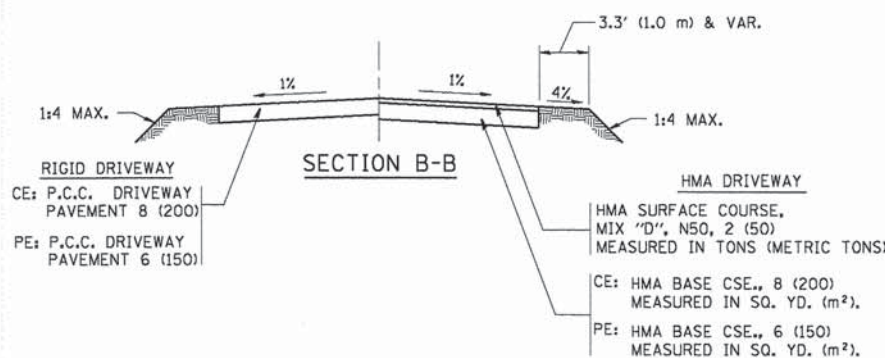
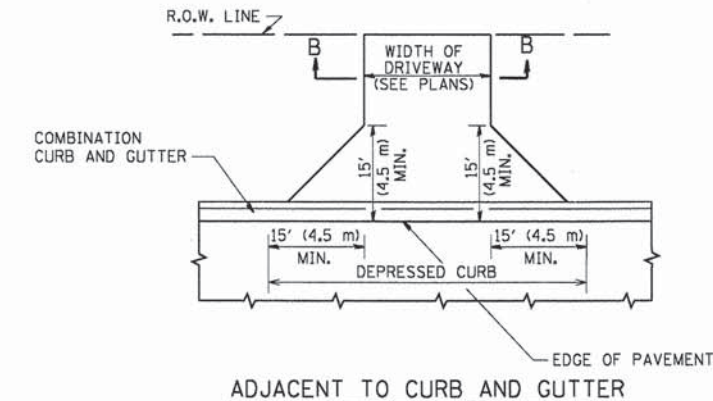
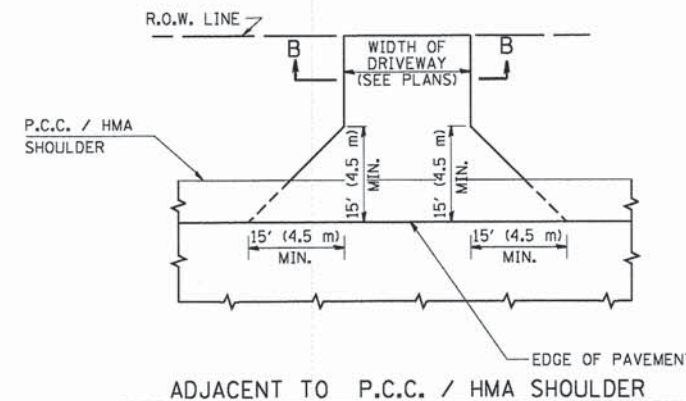
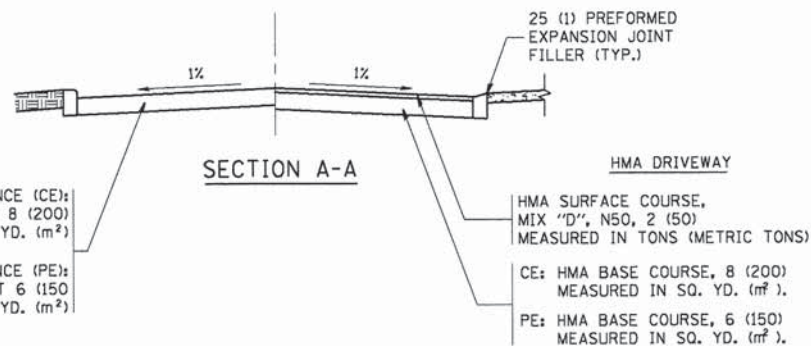
FAL RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	60
CONTRACT NO. 61B08				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

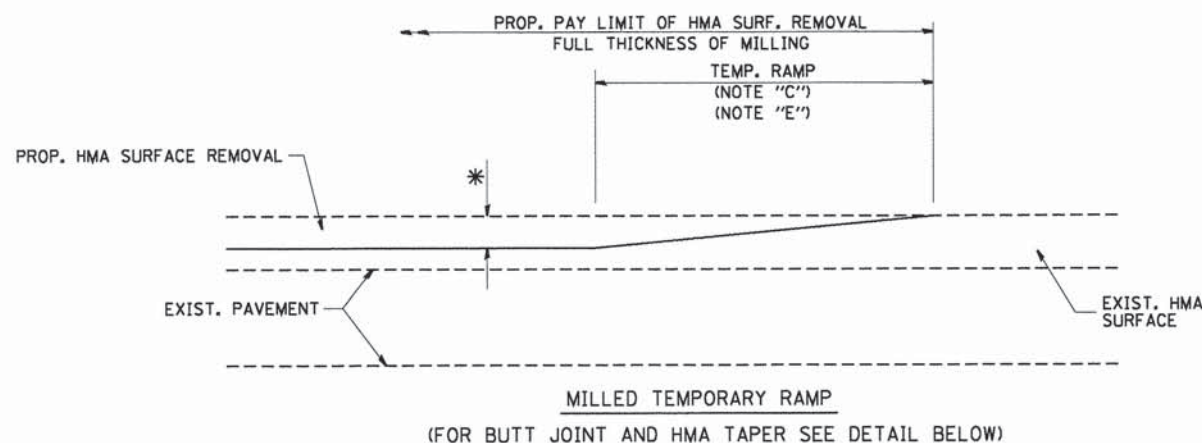
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es\pwork\p\dot\luyss\d018315\bd01.dgn		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 50.0000' / 1"	CHECKED -	REVISED - R. BORO 06-11-08
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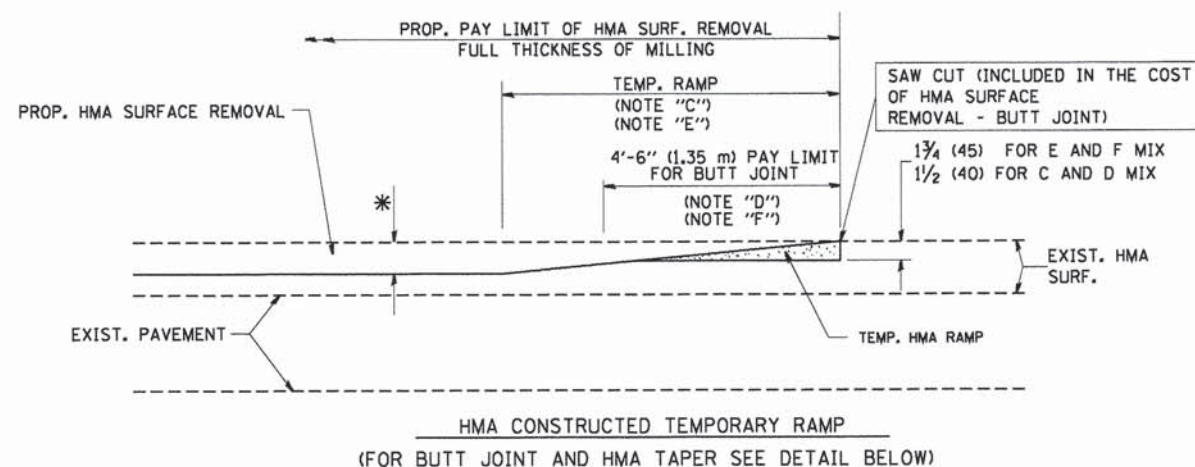
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)			
SCALE: NONE	SHEET NO. 1	OF 9 SHEETS	STA. TO STA.

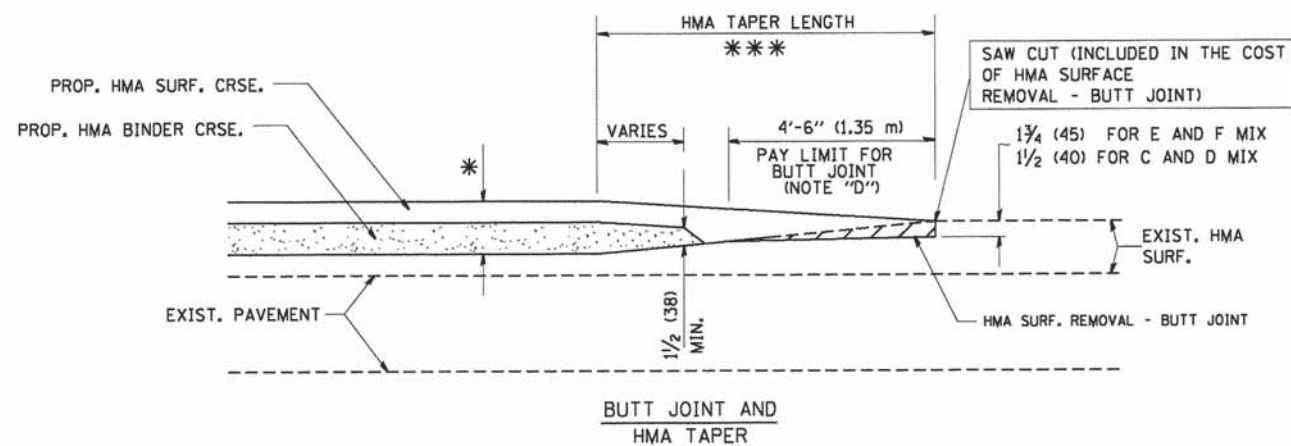
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	61
BD0156-07 (BD-01)			CONTRACT NO.61B08	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



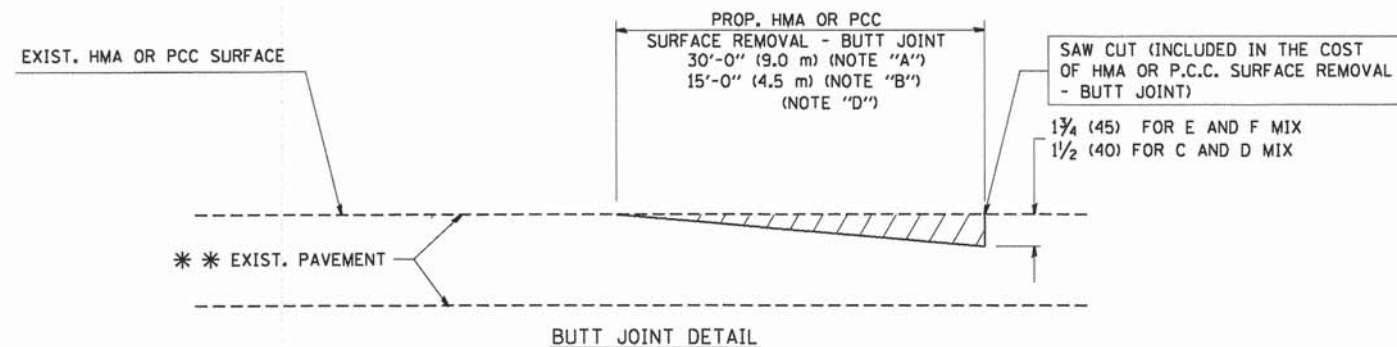
OPTION 1



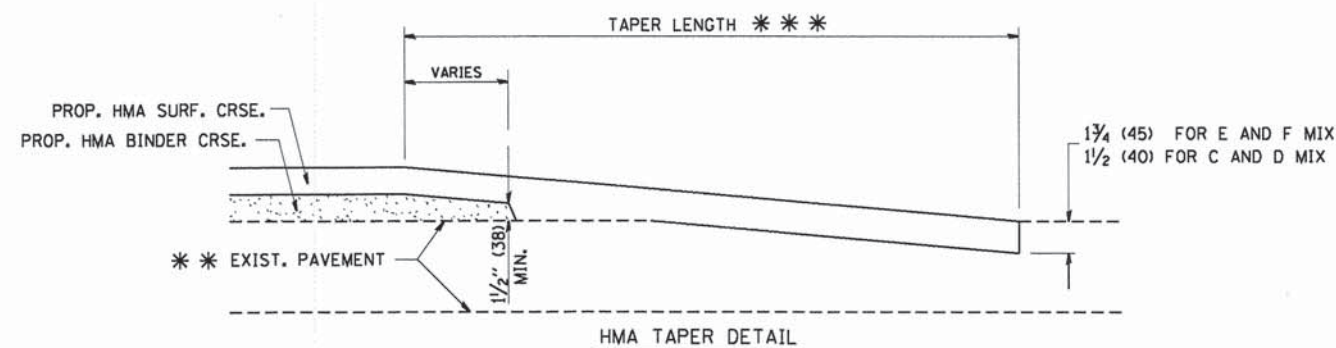
OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

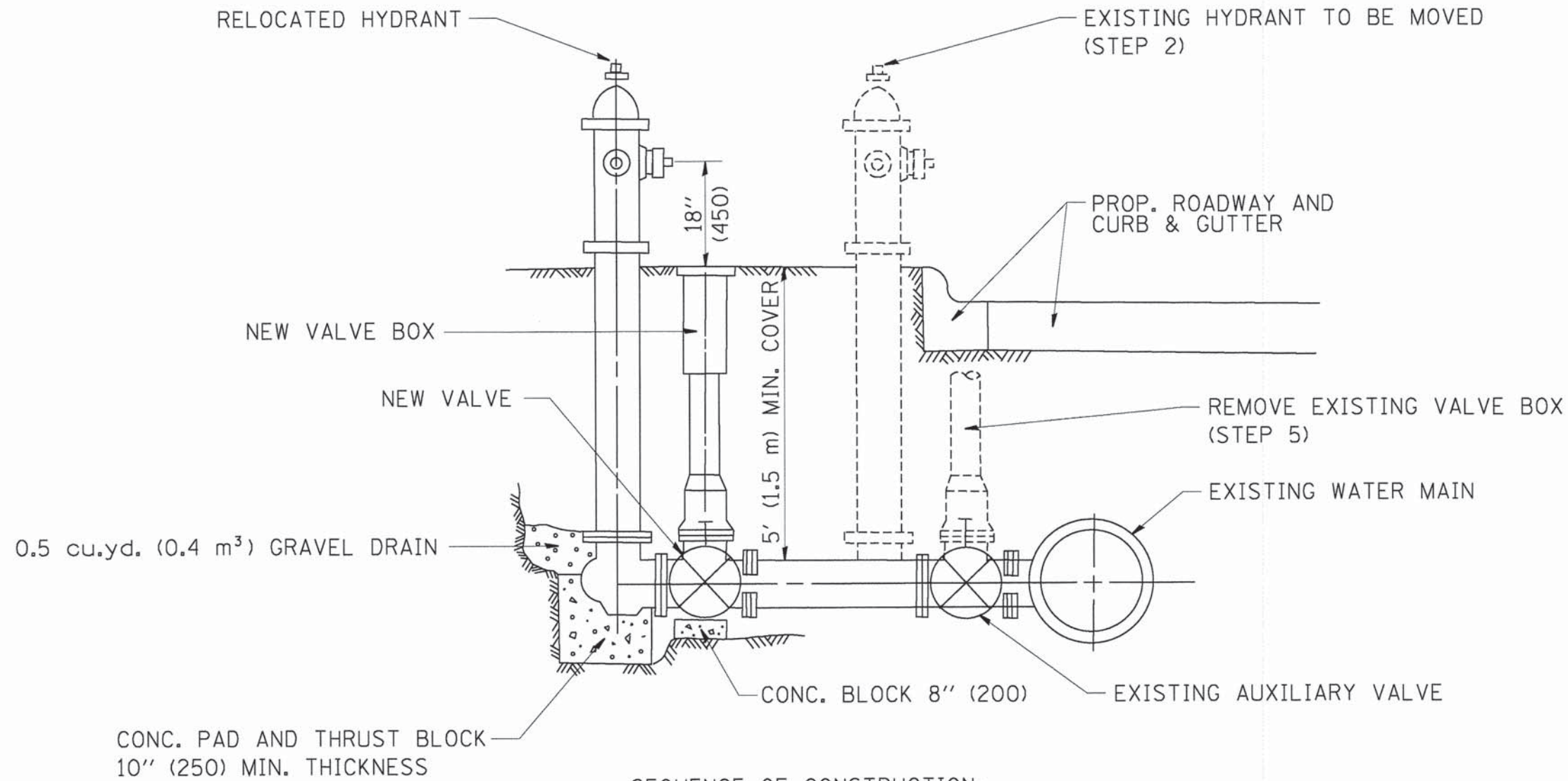
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	PLOT SCALE = 50.0000 "/ IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET NO. 2 OF 9 SHEETS	2421	11-00298-00-BR	KANE	85	62
STA. TO STA.		BD400-05 BD32		CONTRACT NO. 61B08		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



SEQUENCE OF CONSTRUCTION:

1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

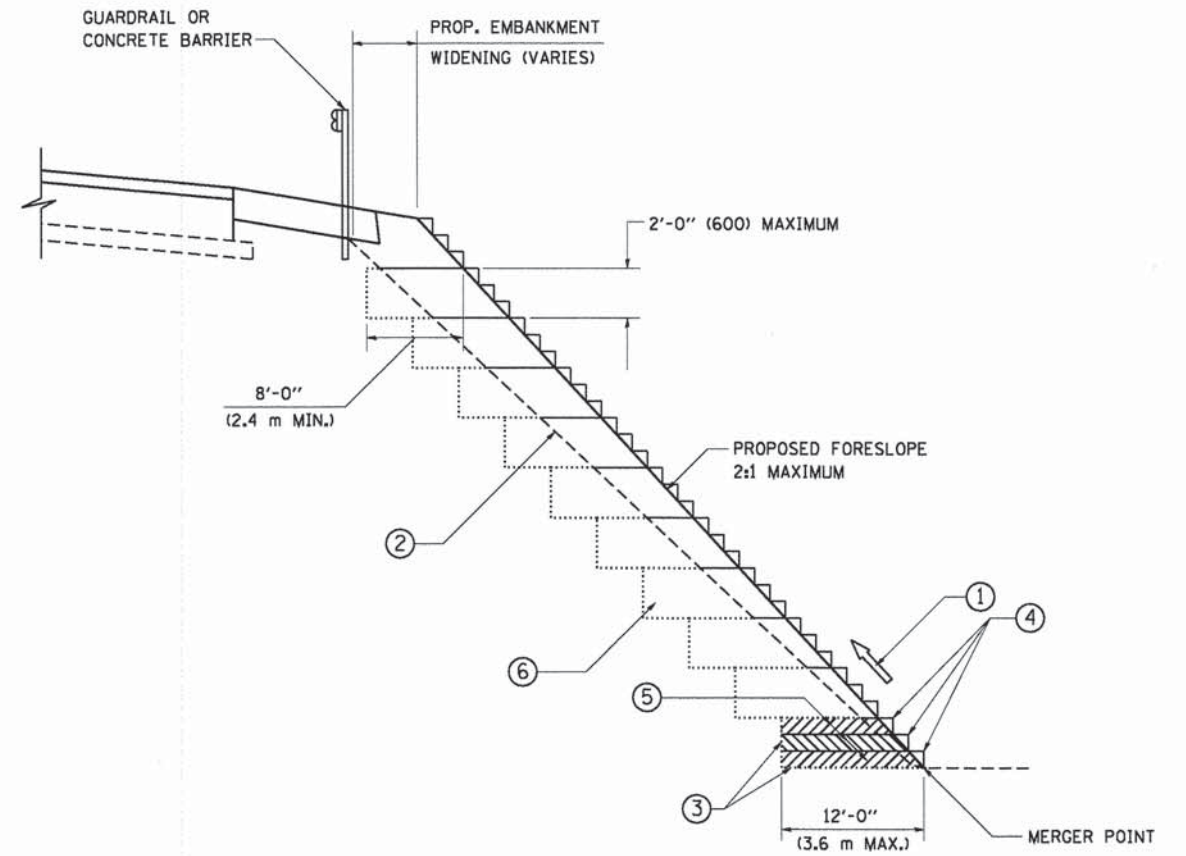
ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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FILE NAME = W:\Projects\2013\11\130179_Sheriff\P1\Needs\Civil\Drawings\101_BD36.dgn	USER NAME = gaglianob	DESIGNED - DRAWN -	REVISED - R. SHAH 09-09-94 REVISED - R. SHAH 10-25-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIRE HYDRANT TO BE MOVED				F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 63
PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISIED -	REVISIED -		SCALE: NONE	SHEET NO. 3	OF 9 SHEETS	STA.	TO STA.	BD-36 CONTRACT NO.61B08			
PLOT DATE = 1/4/2008	DATE -	REVISIED -	REVISIED -		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

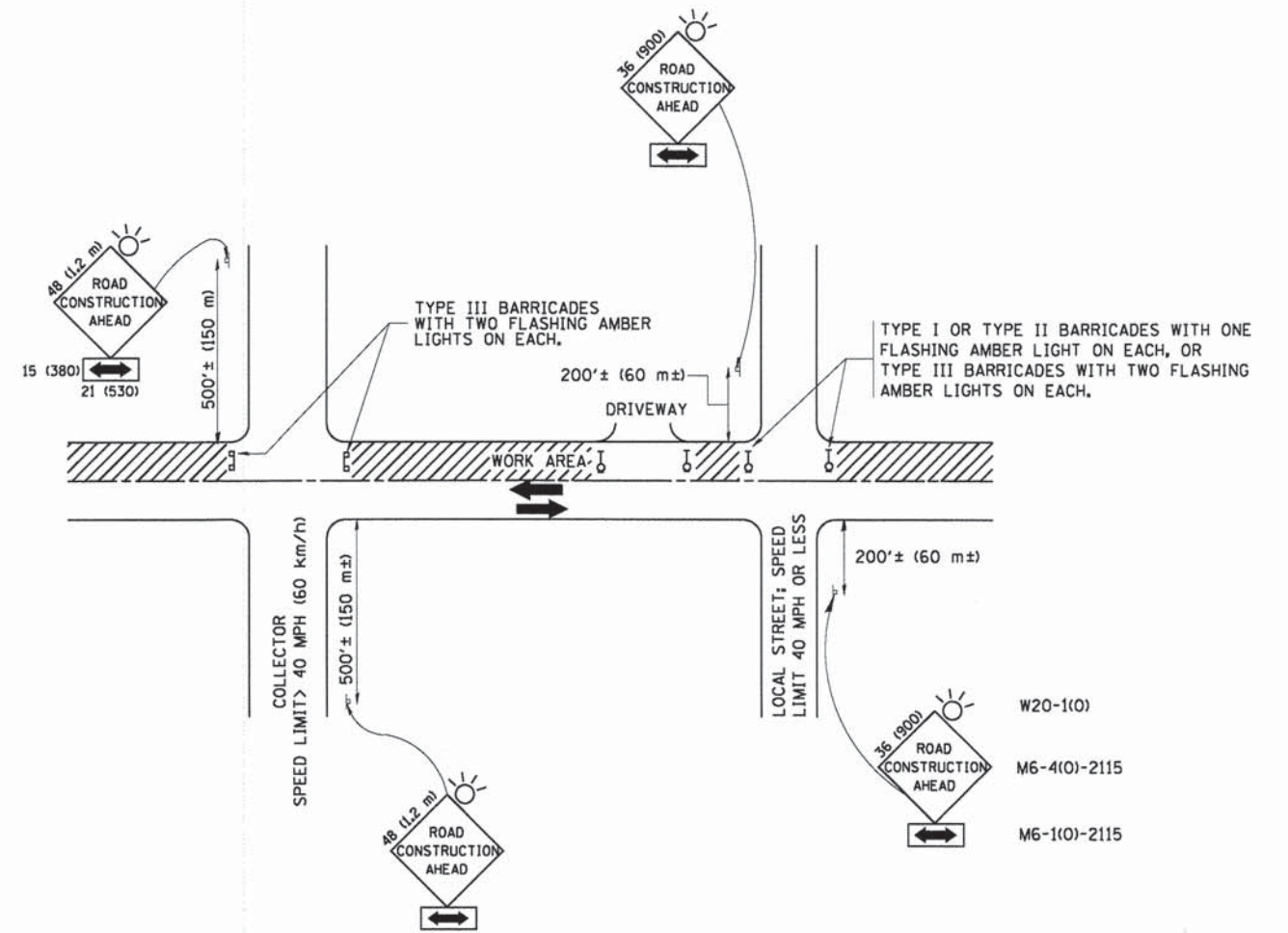
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		CHECKED - S.E.B.	REVISED -
		DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BENCHING DETAIL FOR EMBANKMENT WIDENING			
SCALE: NONE	SHEET NO. 4	OF 9 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	64
BD-51			CONTRACT NO. 61B08	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
 - 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1,2 m x 1,2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
 - 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
 - USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (Inches) unless otherwise shown.

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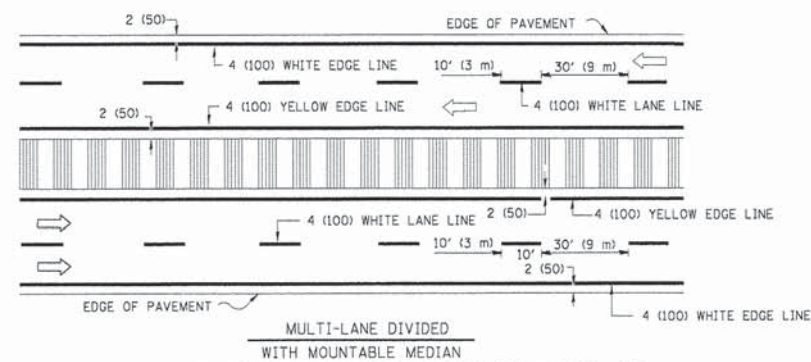
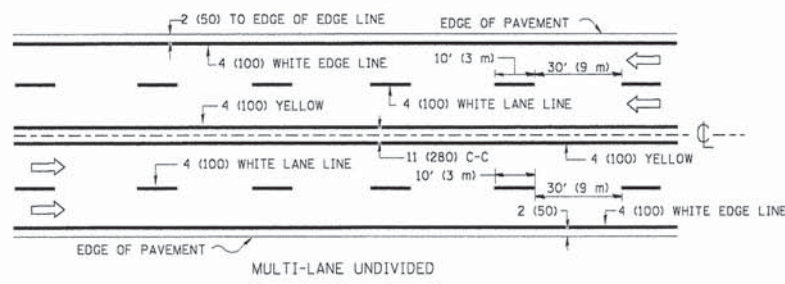
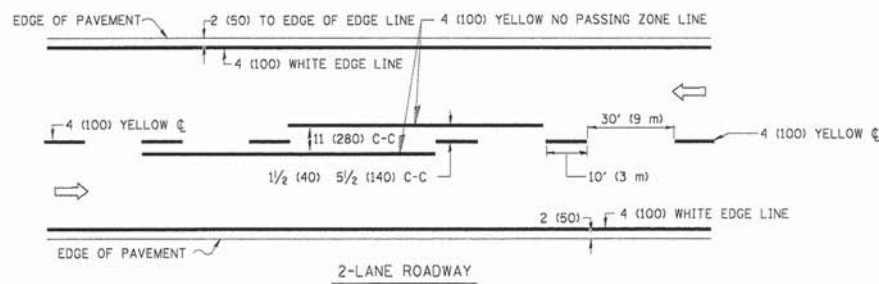
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	PLOT SCALE = 60.000' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 1/4/2008	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

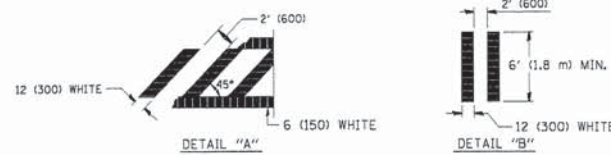
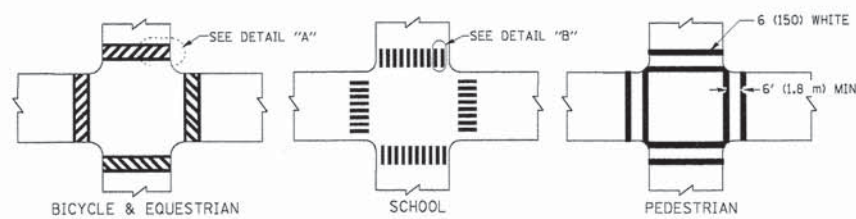
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 61B08	
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

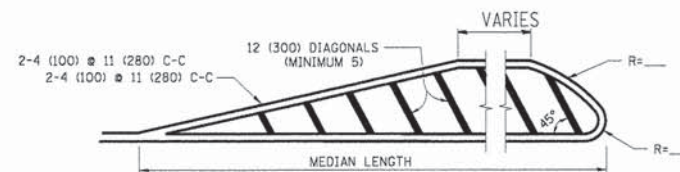
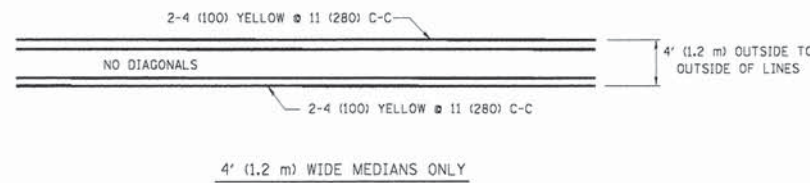


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



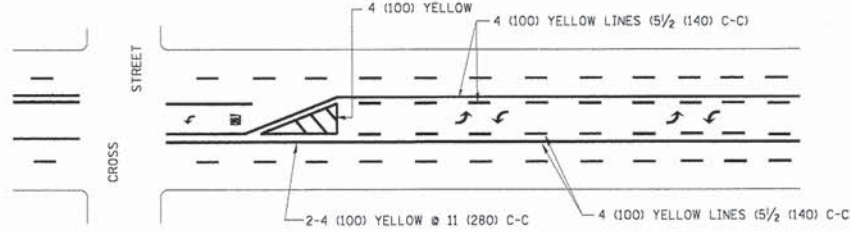
TYPICAL CROSSWALK MARKING



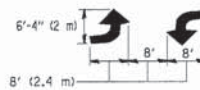
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

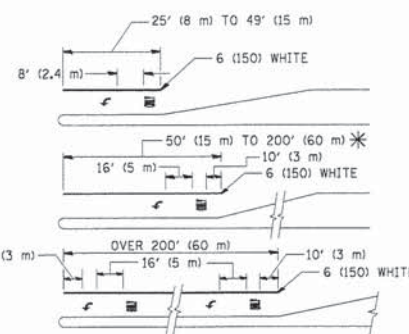


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

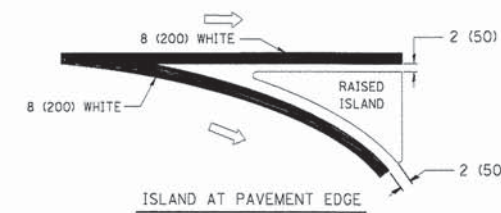
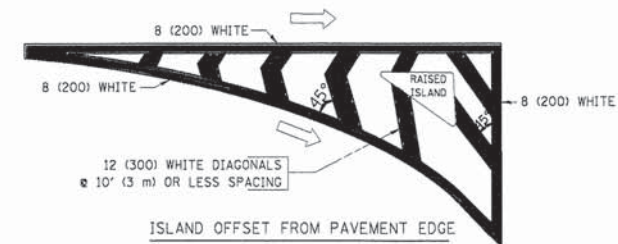


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2' (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2' (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 8' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

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		DRAWN -	REVISED - C. JUCIUS 09-09-09
	PLDT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -
	PLDT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION






DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 6 OF 9 SHEETS	STA. TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	66
TC-13			CONTRACT NO. 61B08	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				






ROUTE MARKERS

-  FOR U.S. ROUTES
M1-40-2424
-  FOR ILLINOIS ROUTES
M1-50-2424
-  R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

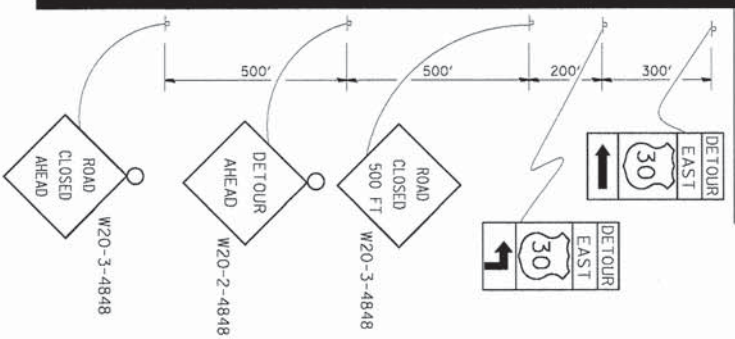
ARROWS SIGNS

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-  M5-1R-2115
-  M6-1-2115
-  M6-1-2115
-  M6-3-2115

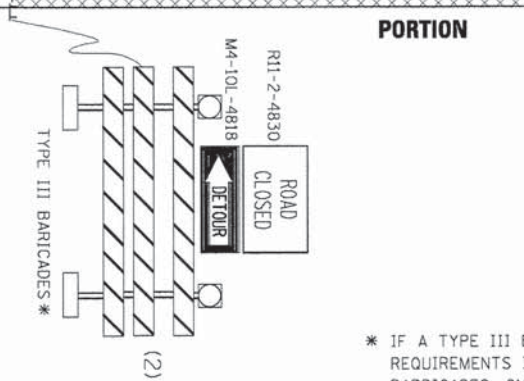
CARDINAL DIRECTION & DETOUR SIGNS

-  NORTH M3-1-2412
-  EAST M3-2-2412
-  SOUTH M3-3-2412
-  WEST M3-4-2412
-  DETOUR M4-8-2412

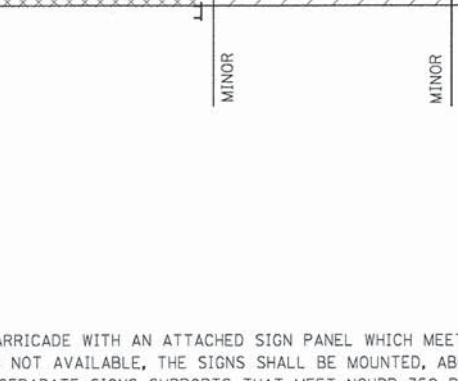
STATE ROUTE



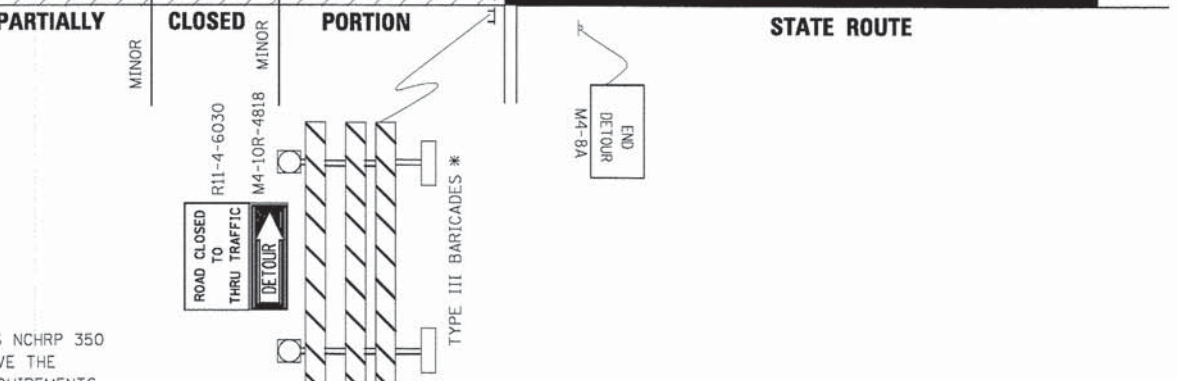
COMPLETELY CLOSED PORTION



PARTIALLY CLOSED PORTION



STATE ROUTE



* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME = MAPProjects\2013\138179_Sheffer\PHI\cadd\c:\1\ndgn\Shst\01_TC21.dgn

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PLOT SCALE = 49.9999' / IN.		CHECKED -	REVISED -
PLOT DATE = 9/14/2009		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

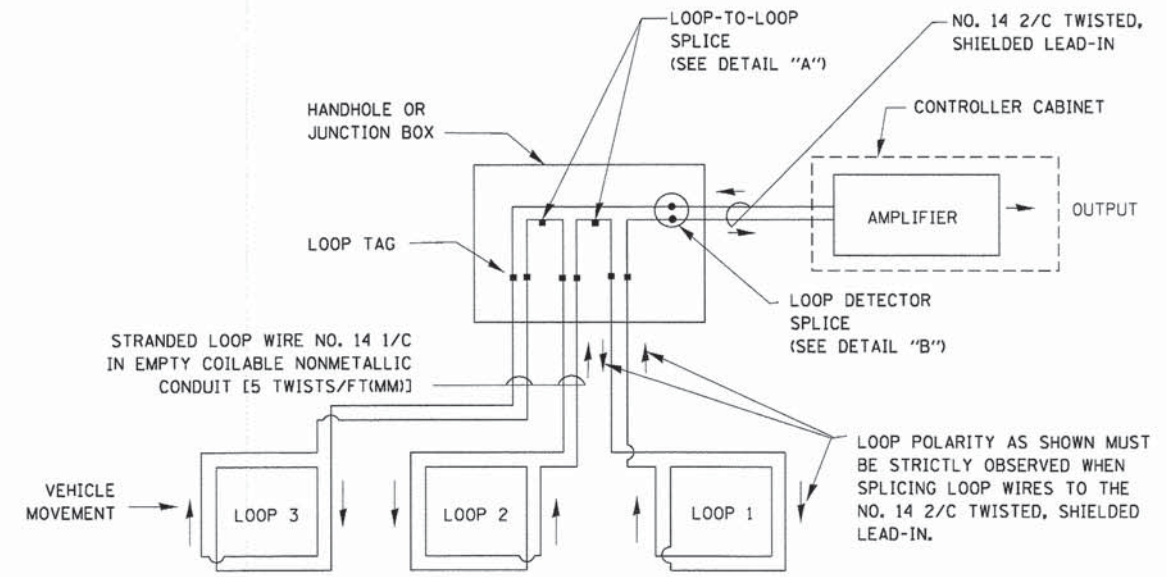
**DETOUR SIGNING
FOR CLOSING STATE HIGHWAYS**

SCALE: NONE SHEET NO. 7 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	67
TC-21			CONTRACT NO.61B08	
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT</small>				

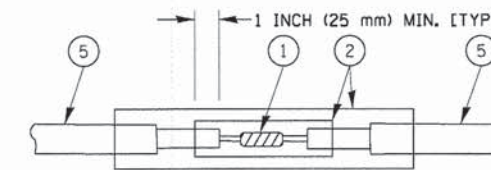
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

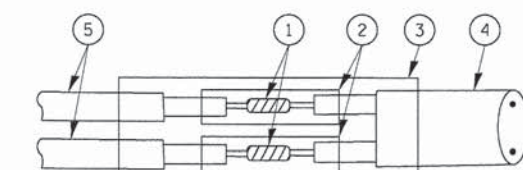


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

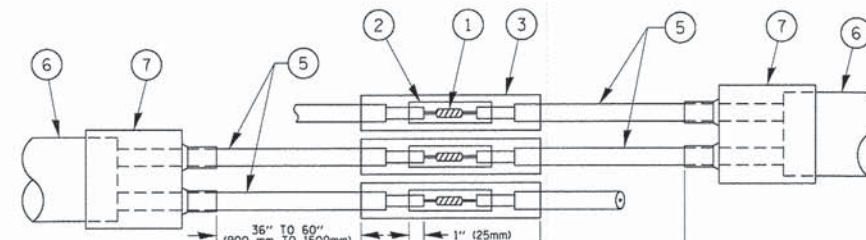


DETAIL "A"
LOOP-TO-LOOP SPLICE

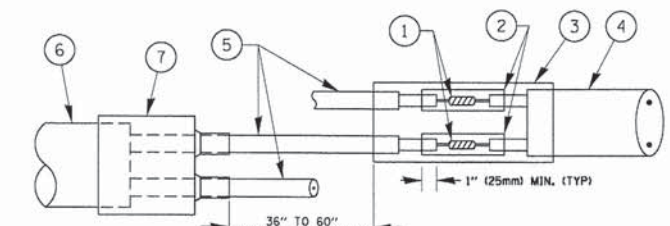


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

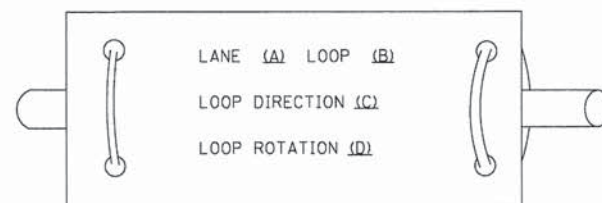


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

LOOP LEAD-IN CABLE TAG



- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PREFORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME = M:\Projects\2013\130179 SheriffPHI\cadd\cvt\1\0gpr\SHA\DT_1505b.dgn

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
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PLOT SCALE = 50.0000' / in.		CHECKED - DAD	REVISED -
PLOT DATE = 1/13/2014		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

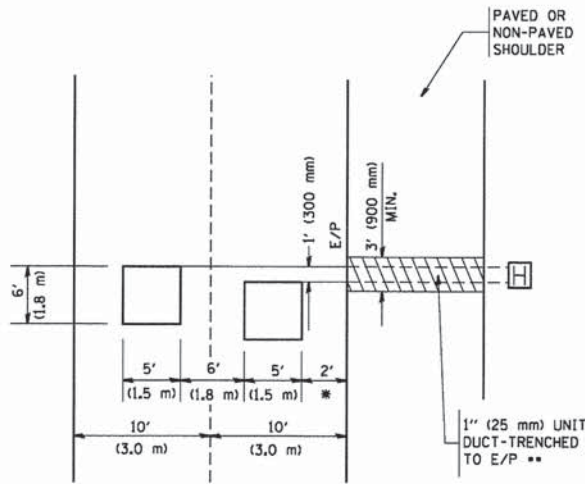
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 8 OF 9 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	68
TS-05			CONTRACT NO. 61B08	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.



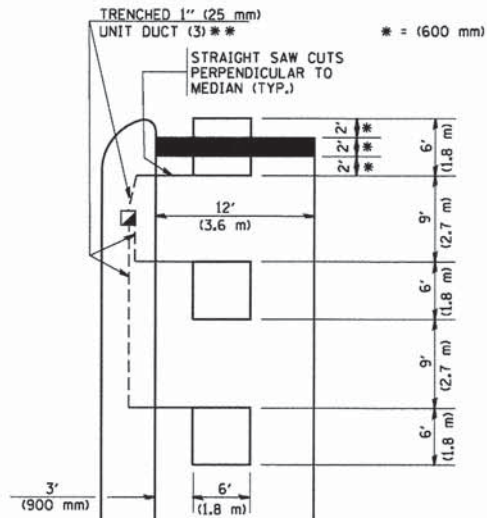
* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH**

(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



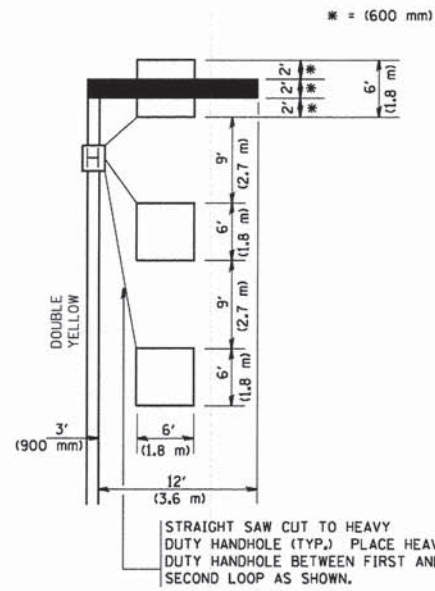
* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH**

(PROTECTED / PERMITTED LEFT TURN PHASING)



* = (600 mm)

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

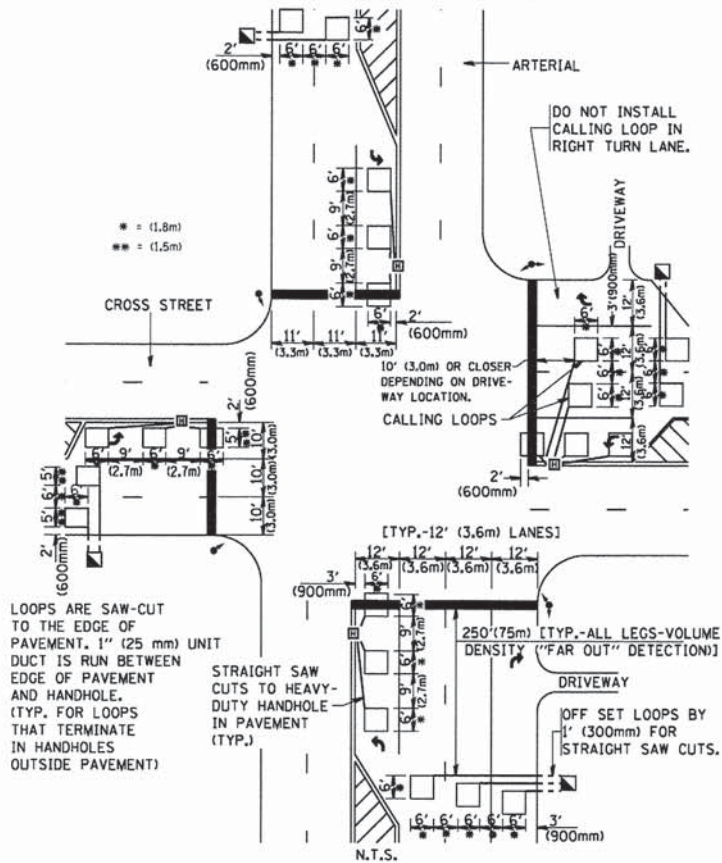
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

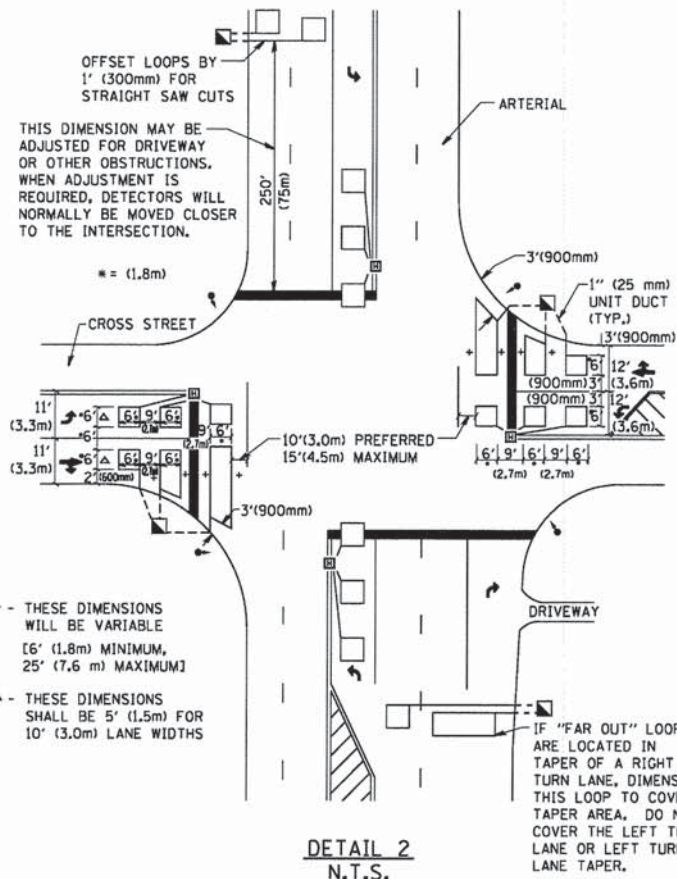
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



DETAIL 1
N.T.S.

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



DETAIL 2
N.T.S.

FILE NAME = M:\P\projects\2013\130179_SherFurPH\Icadd\Civil\Ugr\Sh\ADT_1597.dgn

FILE NAME = M:\P\projects\2013\130179_SherFurPH\Icadd\Civil\Ugr\Sh\ADT_1597.dgn	USER NAME = geglanoht	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING			F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 58.0000' / IN.	CHECKED - R.K.F.	REVISIONS -	REVISIONS -					2421	11-00298-00-BR	KANE	85	69
PLOT DATE = 1/4/2008	DATE -	REVISIONS -	REVISIONS -					TS-07				CONTRACT NO.61B08
								SCALE: NONE		SHEET NO. 9 OF 9 SHEETS		STA. TO STA.

BY	DATE

BY	DATE

FILE NAME = K:\Projects\2013\130179_Sheridan\Drawings\130179_Sheridan\SSHT_Channel.dgn

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

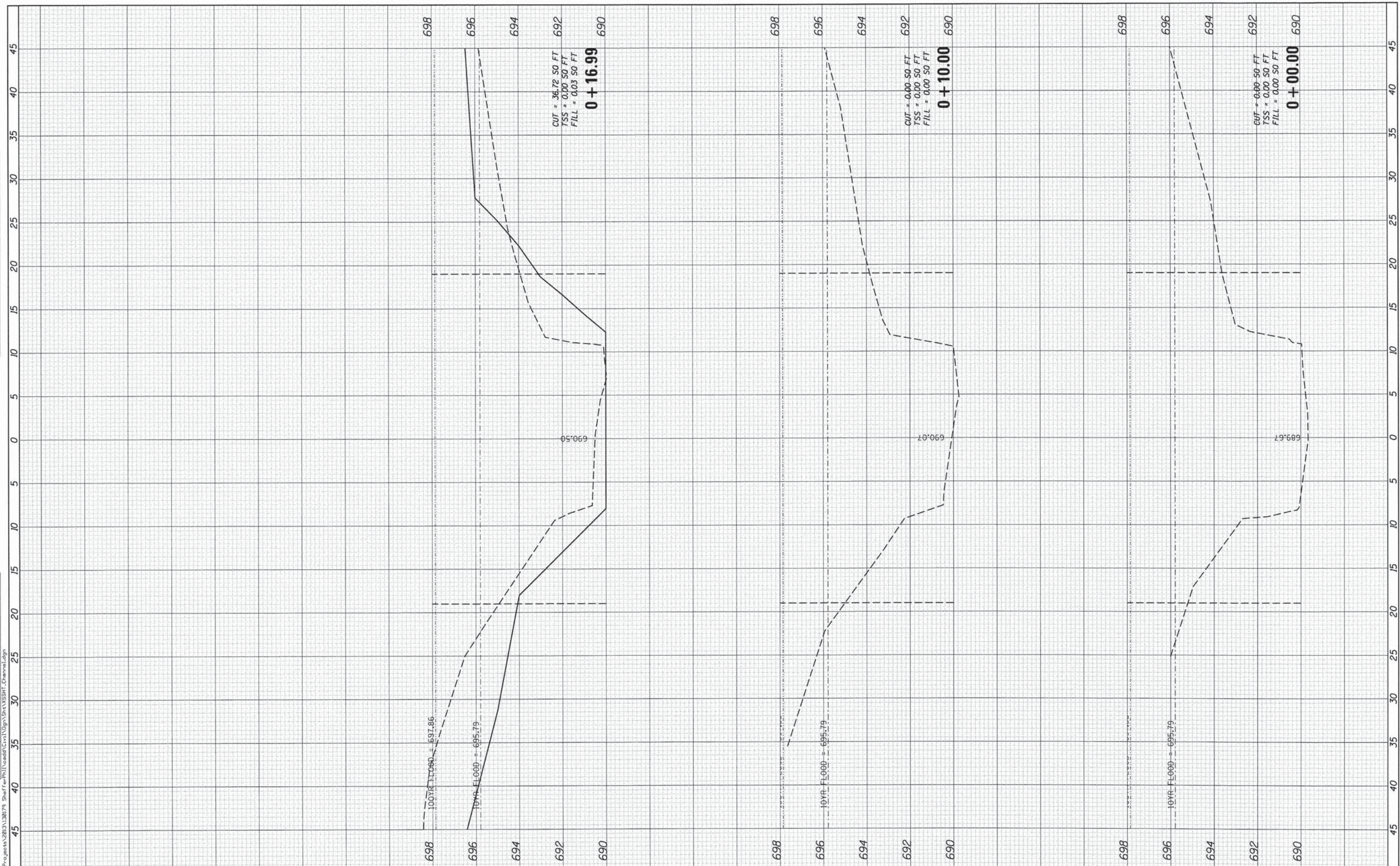
USER NAME = nparris	DESIGNED -	REVISED -
PLOT SCALE = 1:5	DRAWN -	REVISED -
PLOT DATE = 12/12/2014	CHECKED -	REVISED -
	DATE - 12/15/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 INDIAN CREEK**

SCALE: H=5 V=2 SHEET NO. 1 OF 3 SHEETS STA. +00.00 TO STA. +16.99

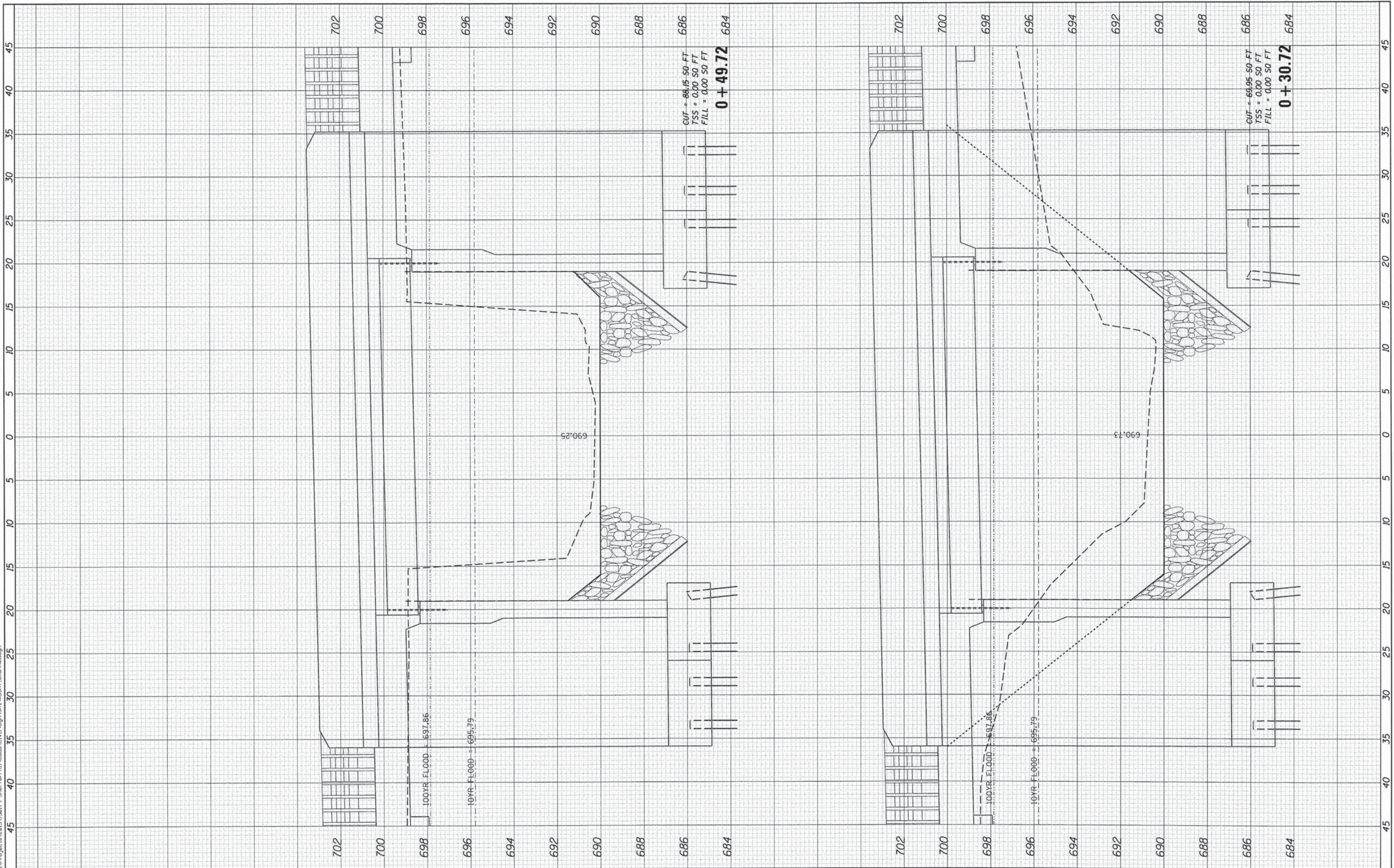
F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 70
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				



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

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

FILE NAME: M:\P\projects\2013\130179_SheridanPh\10.dgn;Sheet\SSHT_Channel.dgn



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

USER NAME = nparr1s	DESIGNED -	REVISED -
PLOT SCALE = 1/8"	DRAWN -	REVISED -
PLOT DATE = 12/12/2014	CHECKED -	REVISED -
	DATE = 12/15/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
INDIAN CREEK**

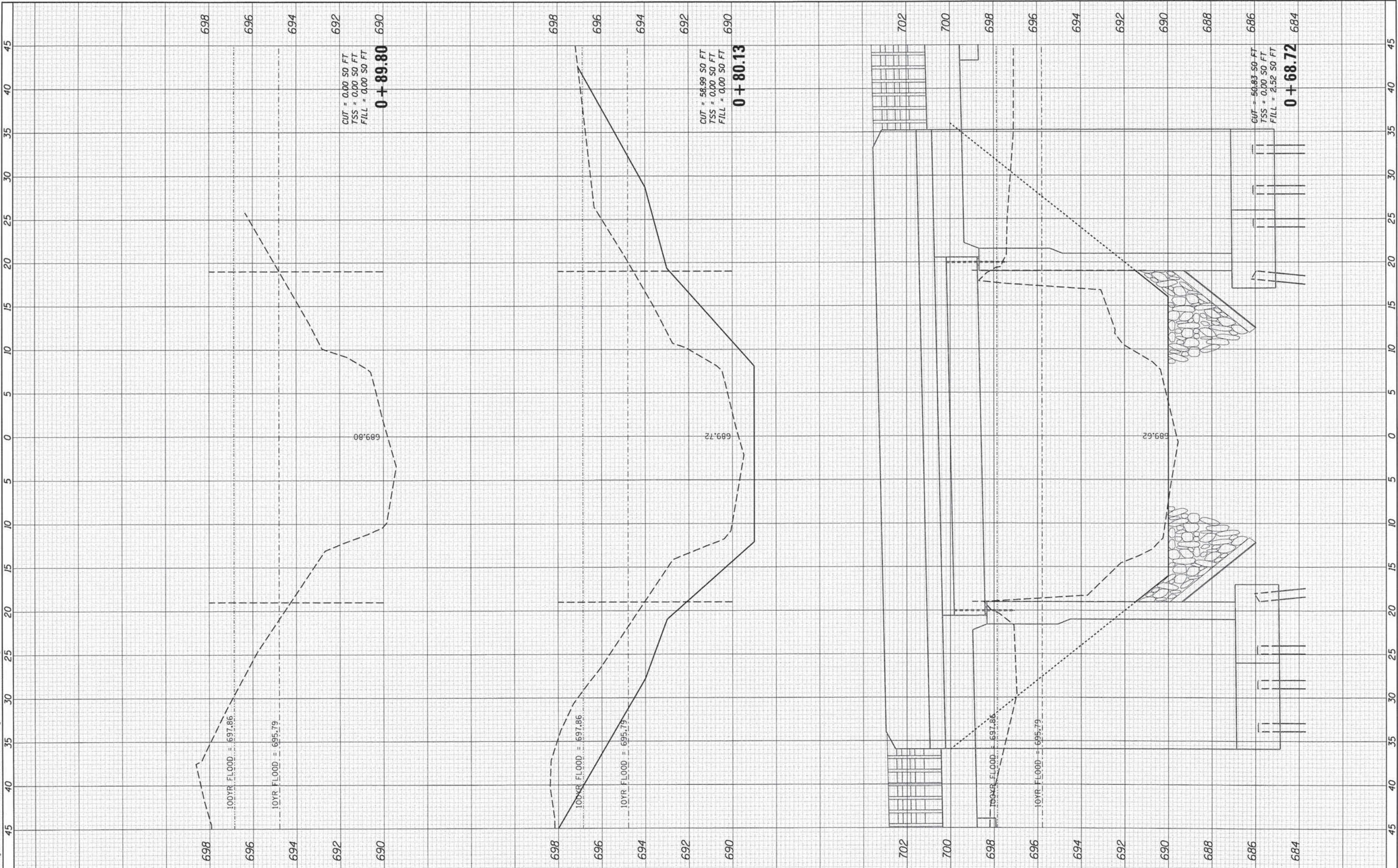
SCALE: H:V 5:2 SHEET NO. 2 OF 3 SHEETS STA. +30.72 TO STA. +49.72

F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 71
CONTRACT NO. 61B08				ILLINOIS FED. AID PROJECT

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

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

FILE NAME : H:\Projects\2013\130179 Sheriff\PH\1\road\G:\1\1\Drawn\Shel\SSR\Charo\Charo.dgn



CUT = 0.00 SQ FT
TSS = 0.00 SQ FT
FILL = 0.00 SQ FT
0 + 89.80

CUT = 58.89 SQ FT
TSS = 0.00 SQ FT
FILL = 0.00 SQ FT
0 + 80.13

CUT = 50.83 SQ FT
TSS = 0.00 SQ FT
FILL = 2.52 SQ FT
0 + 68.72

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

USER NAME = nparr13
PLOT SCALE = 1/8"
PLOT DATE = 12/12/2014

DESIGNED -
DRAWN -
CHECKED -
DATE - 12/15/2014

REVISED -
REVISED -
REVISED -
REVISED -

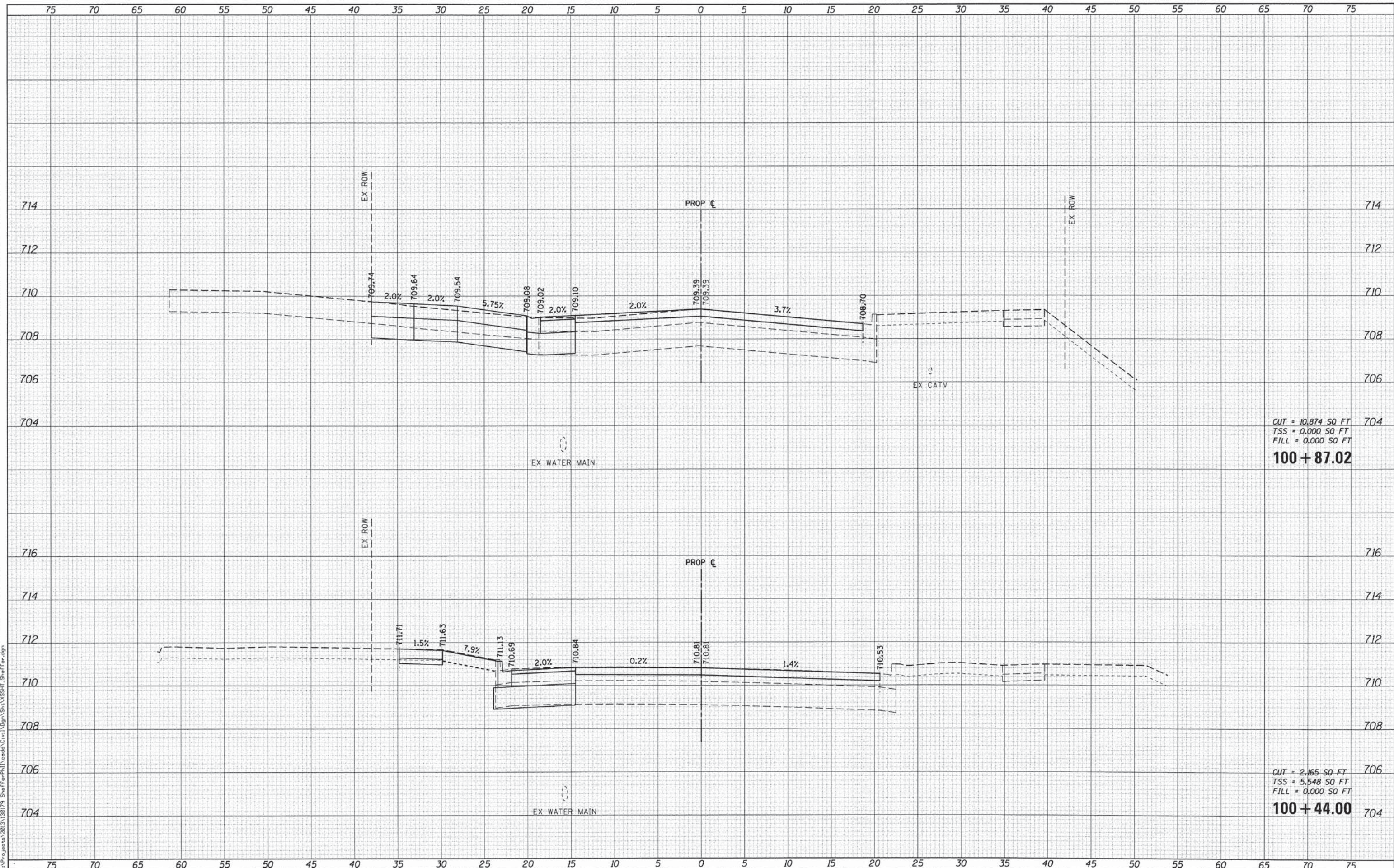
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
INDIAN CREEK**
SCALE: H=5 V=2
SHEET NO. 3 OF 3 SHEETS
STA. +68.72 TO STA. +89.80

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	72
CONTRACT NO.61B08				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SUPERVISED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SUPERVISED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



CUT = 10.874 SO FT
TSS = 0.000 SO FT
FILL = 0.000 SO FT
100 + 87.02

CUT = 2.165 SO FT
TSS = 5.548 SO FT
FILL = 0.000 SO FT
100 + 44.00

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

USER NAME = nparris	DESIGNED -	REVISED -
PLOT SCALE = 1:5	DRAWN -	REVISED -
PLOT DATE = 12/12/2014	CHECKED -	REVISED -
	DATE - 12/15/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

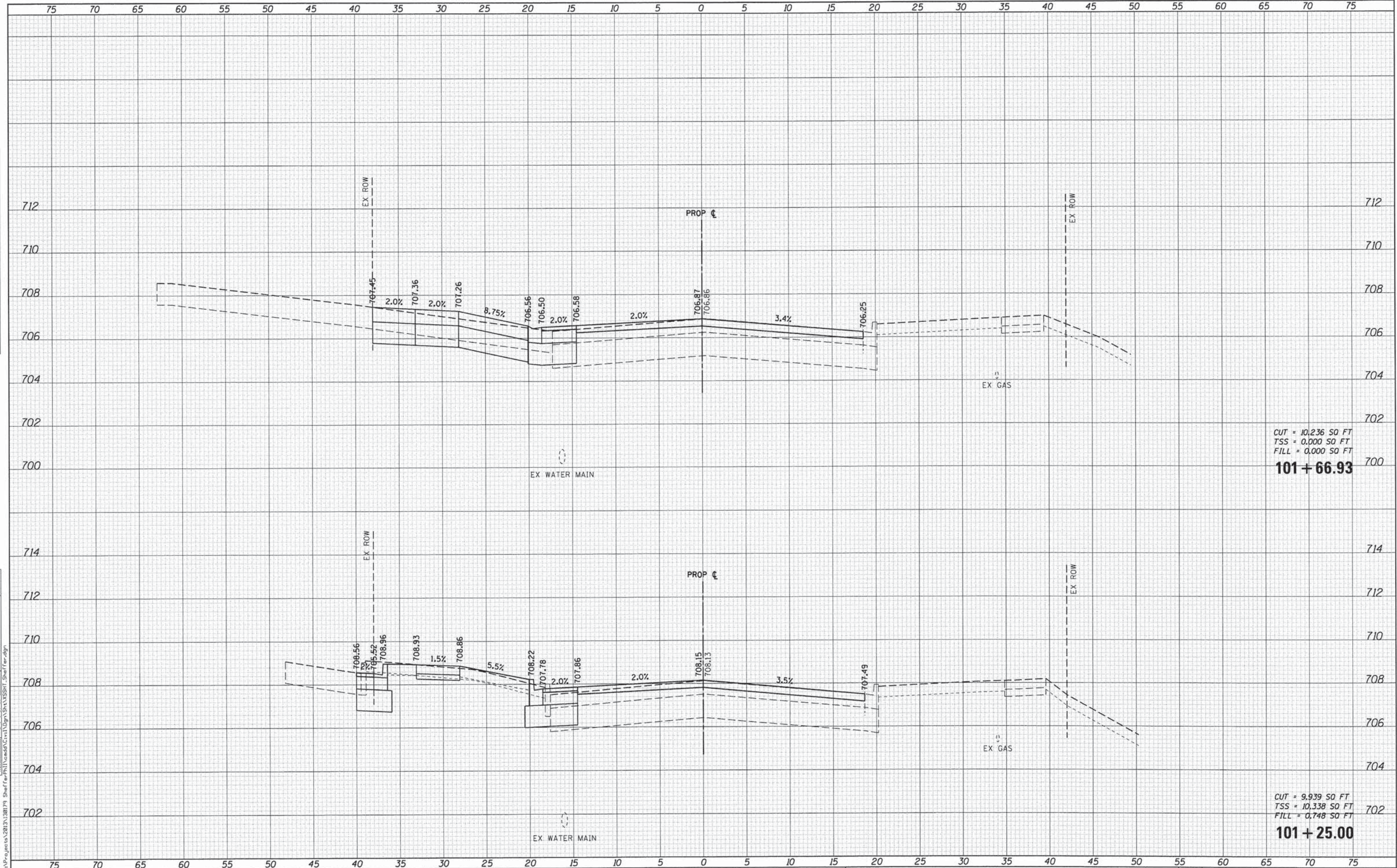
**CROSS SECTIONS
SHEFFER ROAD**

SCALE: H:5 V:2 SHEET NO. 1 OF 13 SHEETS STA. 100+44.00 TO STA. 100+87.02

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	73
				CONTRACT NO.61B08
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



CUT = 10,236 SQ FT
 TSS = 0,000 SQ FT
 FILL = 0,000 SQ FT
101+66.93

CUT = 9,939 SQ FT
 TSS = 10,338 SQ FT
 FILL = 0,748 SQ FT
101+25.00

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

USER NAME = nparris	DESIGNED -	REVISED -
PLOT SCALE = 1:5	DRAWN -	REVISED -
PLOT DATE = 12/12/2014	CHECKED -	REVISED -
	DATE = 12/15/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

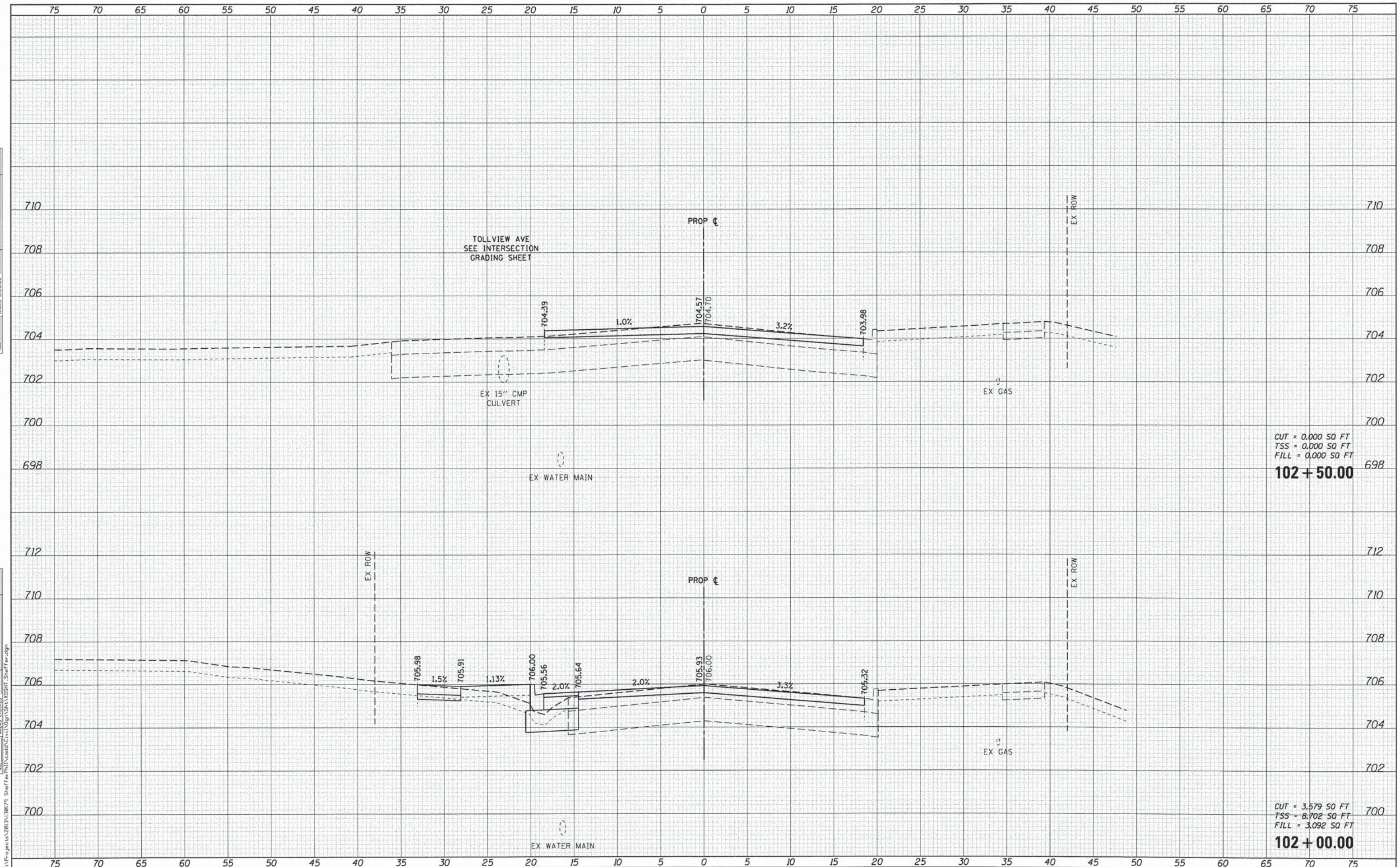
**CROSS SECTIONS
 SHEFFER ROAD**

SCALE: H=5 V=2 SHEET NO. 2 OF 13 SHEETS STA. 101+25.00 TO STA. 101+66.93

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	74
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				

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

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



CUT = 0.000 SO FT
 TSS = 0.000 SO FT
 FILL = 0.000 SO FT
102 + 50.00

CUT = 3.579 SO FT
 TSS = 8.702 SO FT
 FILL = 3.092 SO FT
102 + 00.00

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

USER NAME = nparis	DESIGNED -	REVISED -
PLOT SCALE = 1:5	DRAWN -	REVISED -
PLOT DATE = 12/12/2014	CHECKED -	REVISED -
	DATE = 12/15/2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

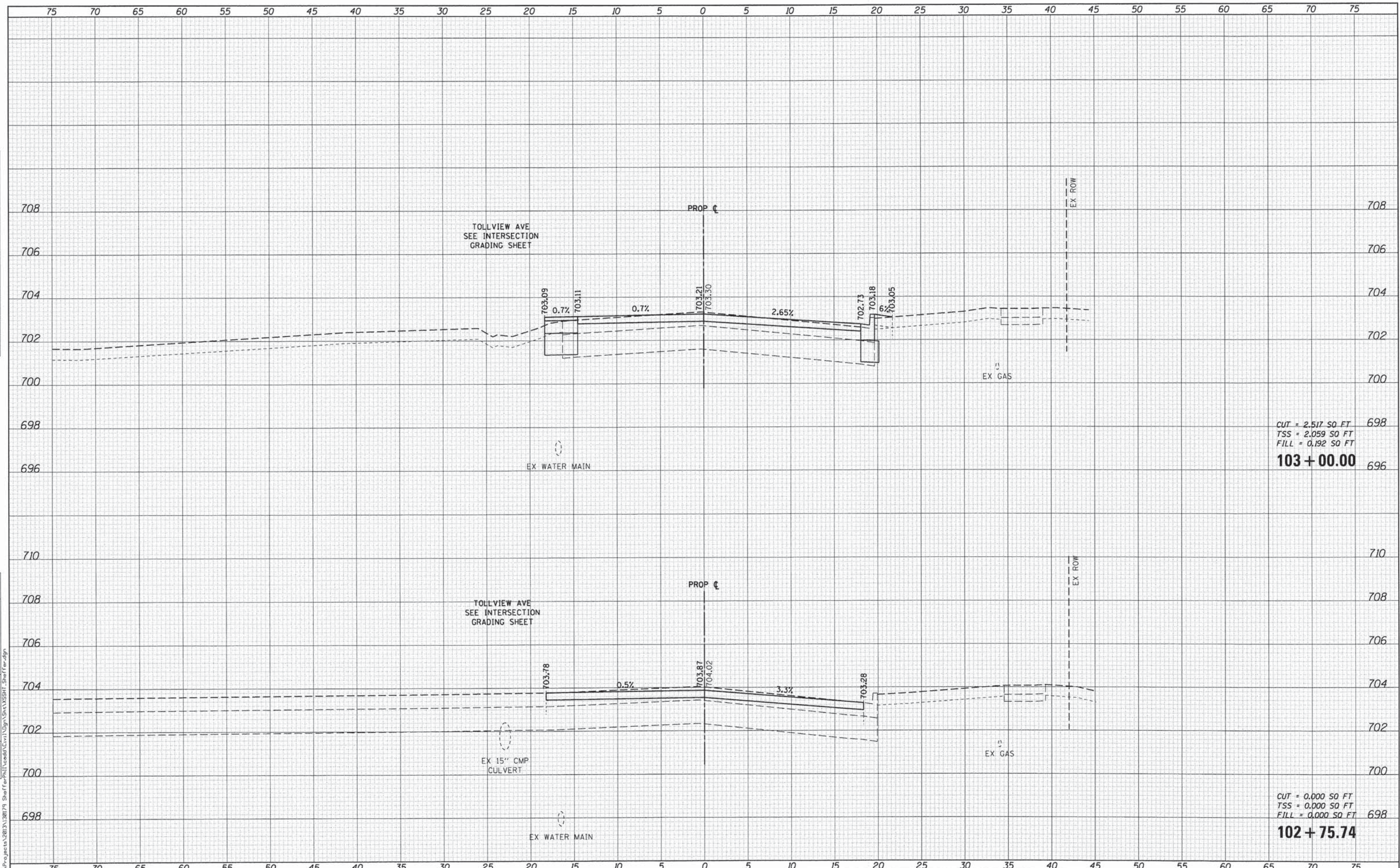
CROSS SECTIONS	
SHEFFER ROAD	
SCALE: H:5 V:2	SHEET NO. 3 OF 13 SHEETS
STA. 102+00.00 TO STA. 102+50.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	75
CONTRACT NO.61808				
ILLINOIS FED. AID PROJECT				

FILE NAME = M:\Projects\2013\11\30\179_Sheffer\PH\102+00.dgn

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

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



CUT = 2.517 SO FT
TSS = 2.059 SO FT
FILL = 0.192 SO FT
103 + 00.00

CUT = 0.000 SO FT
TSS = 0.000 SO FT
FILL = 0.000 SO FT
102 + 75.74



USER NAME = nporris	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 1:5	CHECKED -	REVISED -
PLOT DATE = 12/12/2014	DATE = 12/15/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

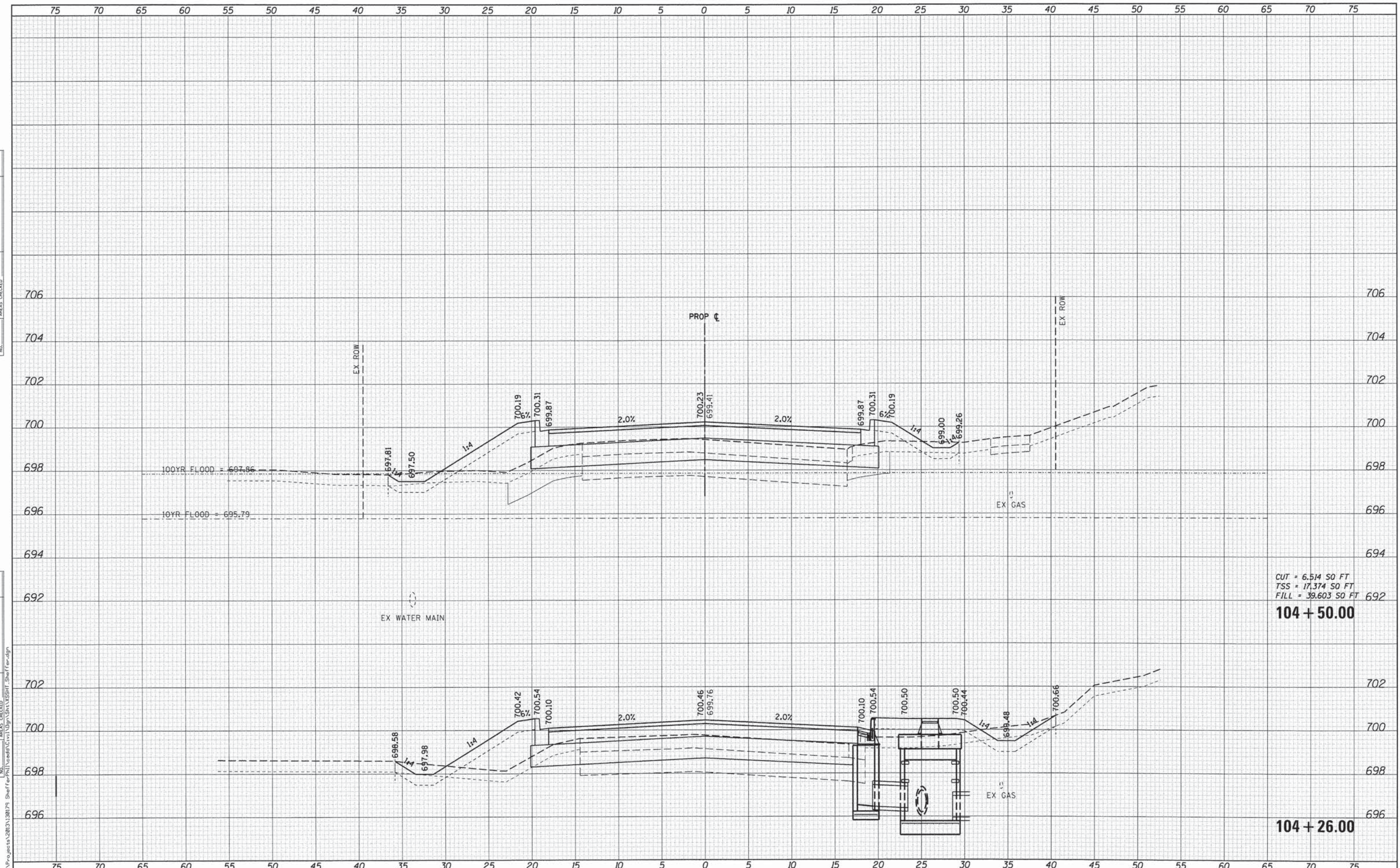
SCALE: H=5 V=2		SHEET NO. 4 OF 13 SHEETS		STA. 102+75.74 TO STA. 103+00.00	
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CROSS SECTIONS
SHEFFER ROAD

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	76
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
NO.	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
NO.	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



CUT = 6.514 SO FT
TSS = 17.374 SO FT
FILL = 39.603 SO FT
104 + 50.00

104 + 26.00

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

USER NAME = nporris
DESIGNED -
DRAWN -
CHECKED -
PLOT SCALE = 1:5
PLOT DATE = 12/12/2014

DESIGNED -
REVISIED -
REVISIED -
REVISIED -
DATE = 12/15/2014

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

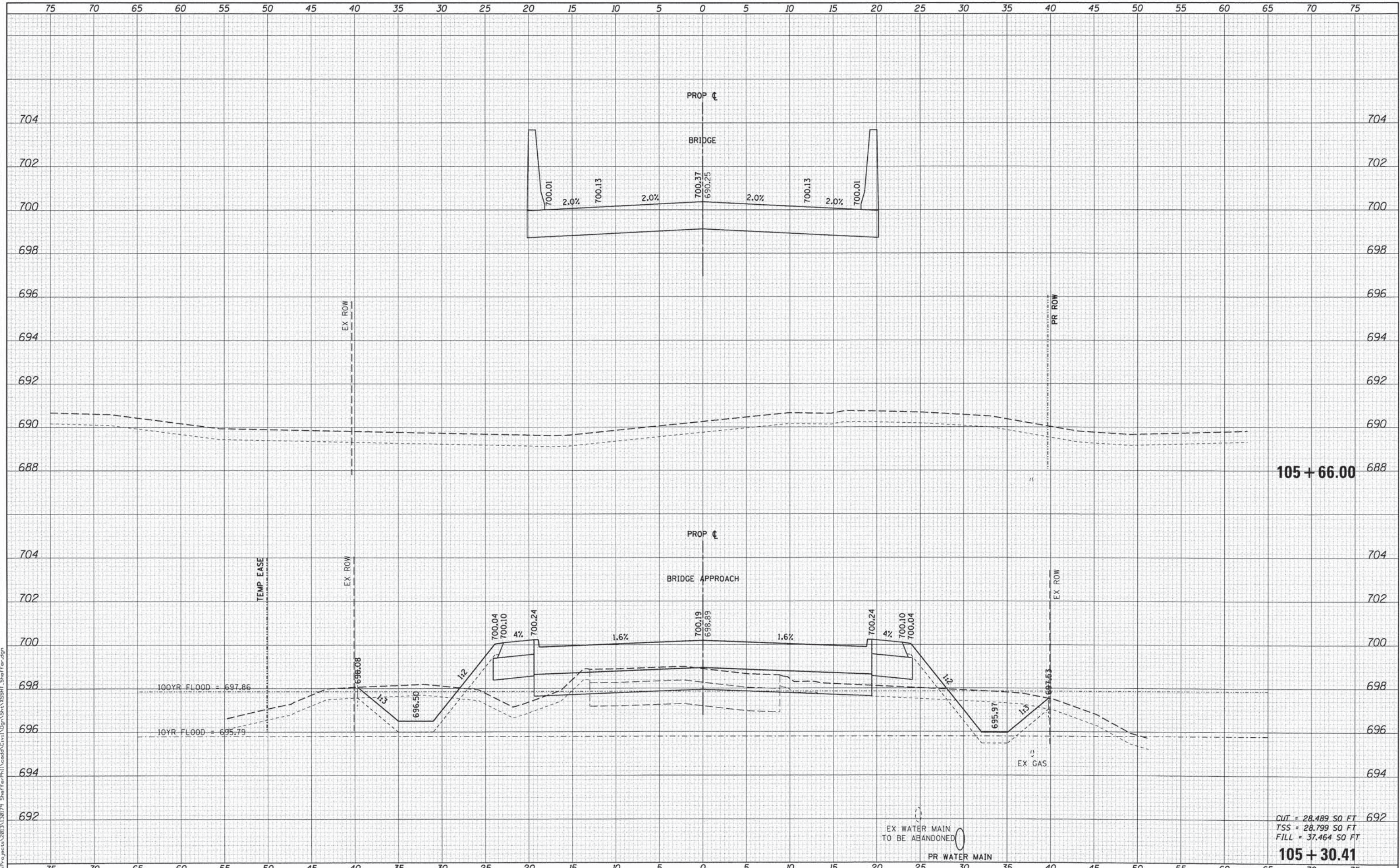
**CROSS SECTIONS
SHEFFER ROAD**
SCALE: H:5 V:2 SHEET NO. 6 OF 13 SHEETS STA. 104+26.00 TO STA. 104+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	78
CONTRACT NO.61B08				
ILLINOIS FED. AID PROJECT				

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

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

FILE NAME : \\P:\projects\2013\11-00298\11-00298-00-BR\11-00298-00-BR_SHEFFER.dgn



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

USER NAME = nparris	DESIGNED -	REVISED -
PLLOT SCALE = 1/4"	DRAWN -	REVISED -
PLLOT DATE = 12/12/2014	CHECKED -	REVISED -
	DATE = 12/15/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

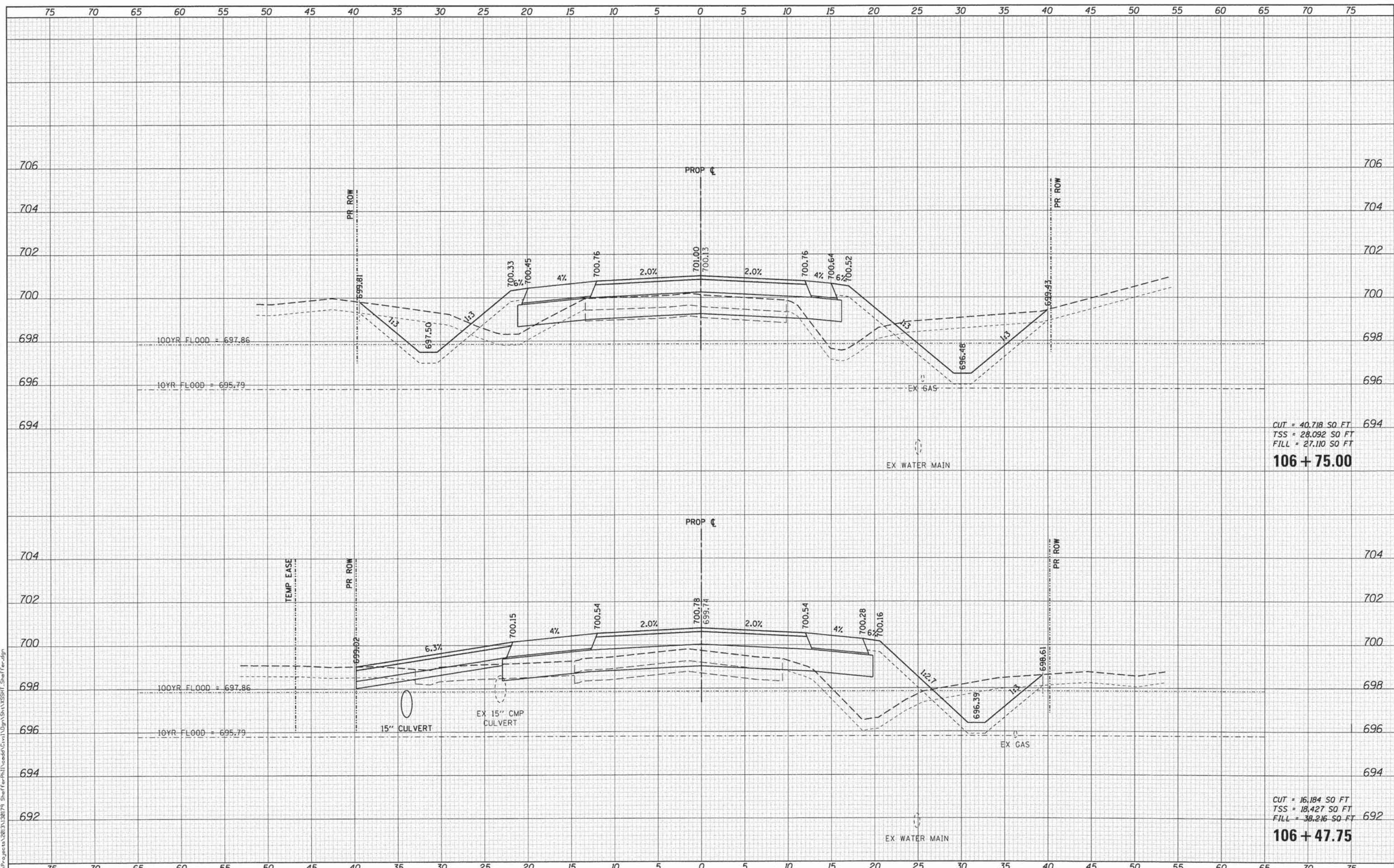
CROSS SECTIONS SHEFFER ROAD	
SCALE: H=5 V=2	SHEET NO. 8 OF 13 SHEETS STA. 105+30.41 TO STA. 105+66.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	80
CONTRACT NO. 61B08				ILLINOIS FED. AID PROJECT

CUT = 28.489 SO FT
 TSS = 28.799 SO FT
 FILL = 37.464 SO FT
105 + 30.41

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

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



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

USER NAME = nparris	DESIGNED -	REVISED -
PLOT SCALE = 1/4" = 1'	DRAWN -	REVISED -
PLOT DATE = 12/15/2014	CHECKED -	REVISED -
	DATE = 12/15/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

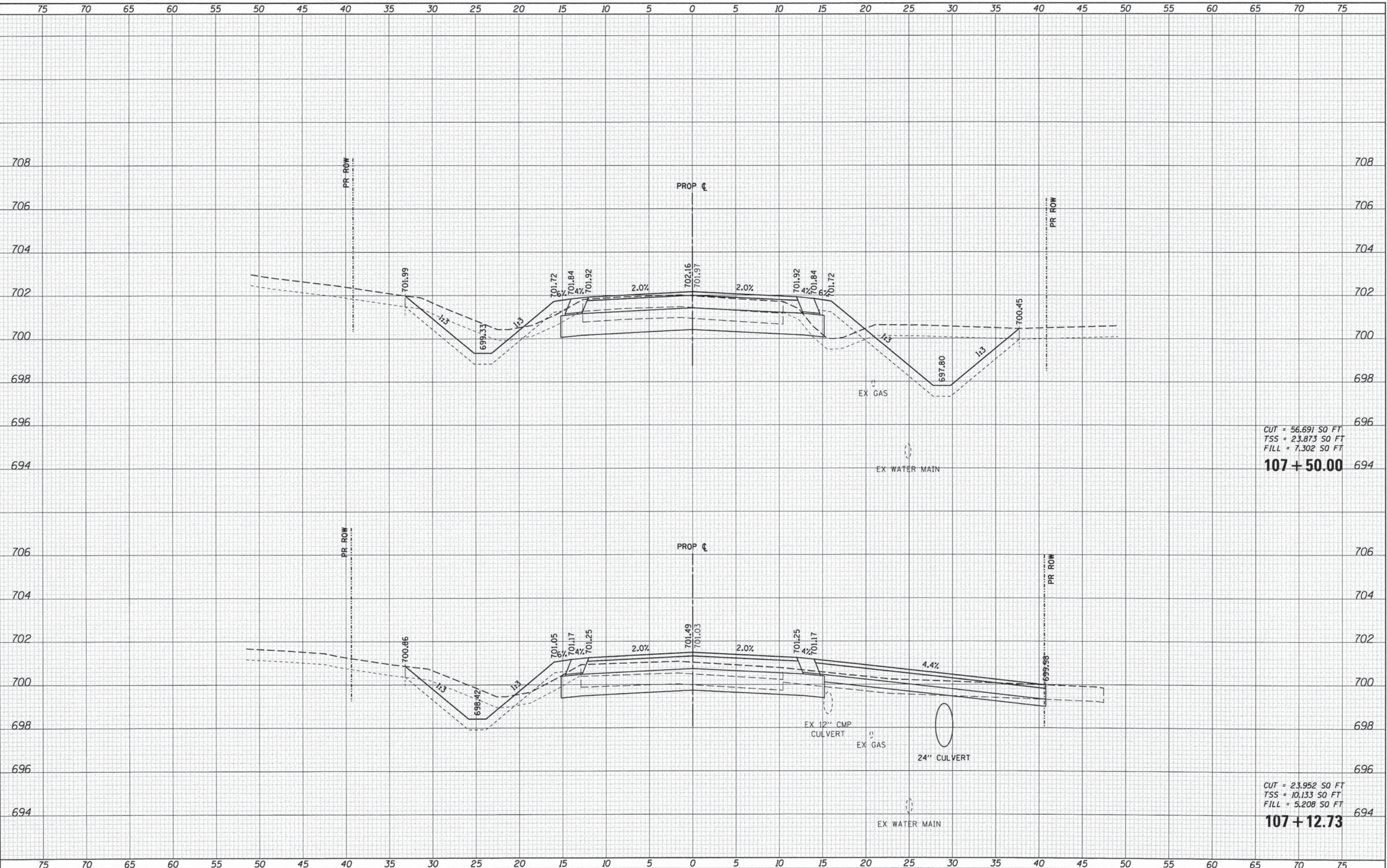
CROSS SECTIONS SHEFFER ROAD	
SCALE: H&S V&2	SHEET NO. 10 OF 13 SHEETS
STA. 106+47.75 TO STA. 106+75.00	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	82
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = \\P:\projects\2013\120179_Sheffer\Phil\Road\11\10.dwg



CUT = 56.691 SO FT
 TSS = 23.873 SO FT
 FILL = 7.302 SO FT
107 + 50.00

CUT = 23.952 SO FT
 TSS = 10.133 SO FT
 FILL = 5.208 SO FT
107 + 12.73

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

USER NAME = nparr1s	DESIGNED -	REVISED -
PLLOT SCALE = 1:15	DRAWN -	REVISED -
PLLOT DATE = 12/12/2014	CHECKED -	REVISED -
	DATE = 12/15/2014	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

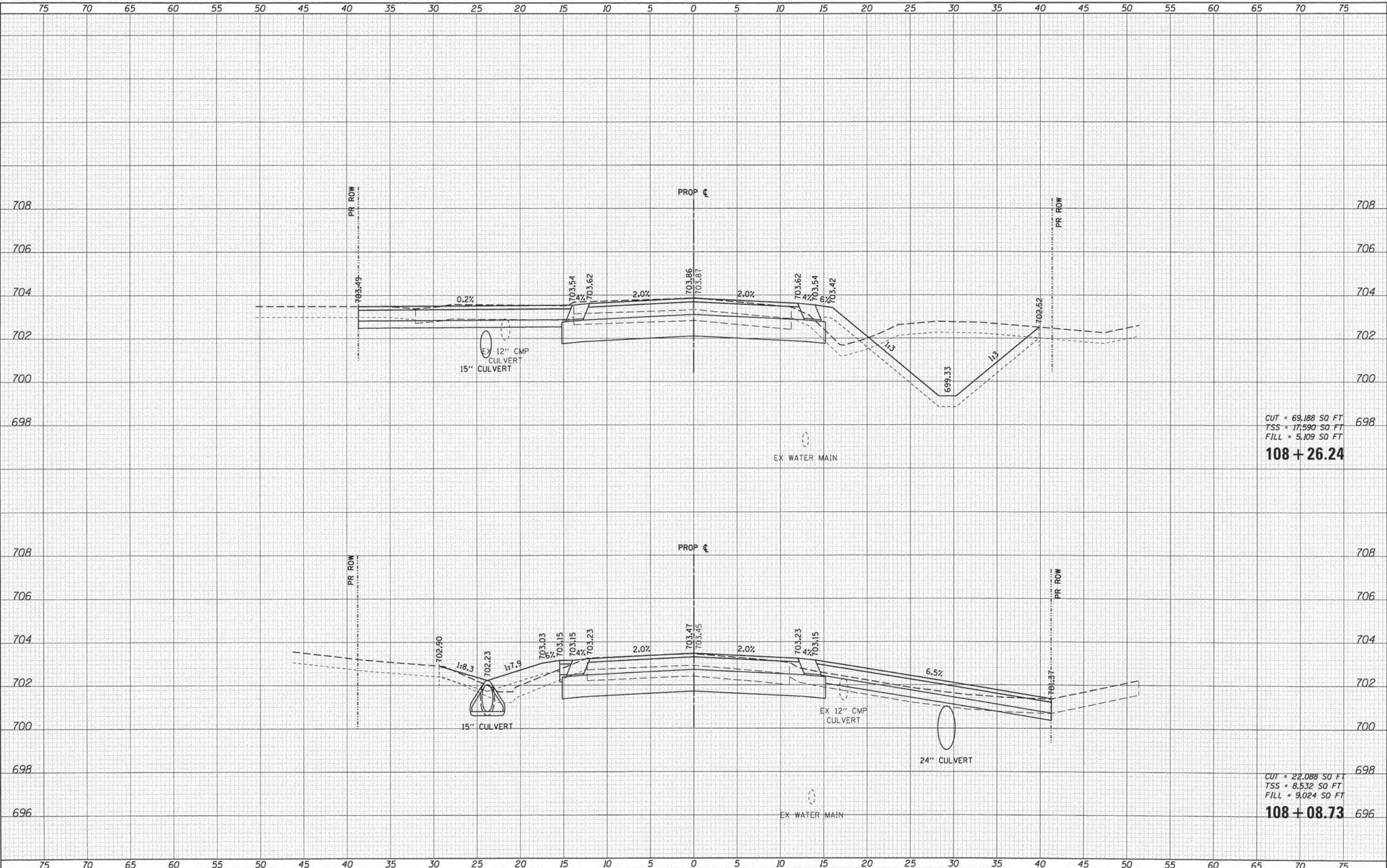
CROSS SECTIONS SHEFFER ROAD	
SCALE: H=5 V=2	SHEET NO. 11 OF 13 SHEETS
STA. 107+12.73 TO STA. 107+50.00	

F.A.U. RTE. 2421	SECTION 11-00298-00-BR	COUNTY KANE	TOTAL SHEETS 85	SHEET NO. 83
CONTRACT NO. 61B08				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL	
NO.	

FILE NAME: \\P:\projects\2013\100179_Sheffer\Plan\100179_Sheffer\100179_Sheffer.dgn



CUT = 69,188 SO FT
 TSS = 17,590 SO FT
 FILL = 5,109 SO FT
108 + 26.24

CUT = 22,088 SO FT
 TSS = 8,532 SO FT
 FILL = 9,024 SO FT
108 + 08.73

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

USER NAME = nparr19	DESIGNED -	REVISED -
PLLOT SCALE = 1:5	DRAWN -	REVISED -
PLLOT DATE = 12/12/2014	CHECKED -	REVISED -
	DATE = 12/15/2014	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 SHEFFER ROAD

SCALE: H=5 V=2 SHEET NO. 12 OF 13 SHEETS STA. 108+08.73 TO STA. 108+26.24

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2421	11-00298-00-BR	KANE	85	84
				CONTRACT NO. 61B08
ILLINOIS FED. AID PROJECT				

