

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

FAP 520 (BLISS ROAD)
OVER BLACKBERRY CREEK
BRIDGE REPLACEMENT
SECTION 08-00058-02-BR
PROJECT BHOS-0089(126)
KANE COUNTY
JOB NO. C-91-162-09

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	1
		ILLINOIS	CONTRACT NO. 61D20	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN SUGAR GROVE TOWNSHIP

TRAFFIC DATA

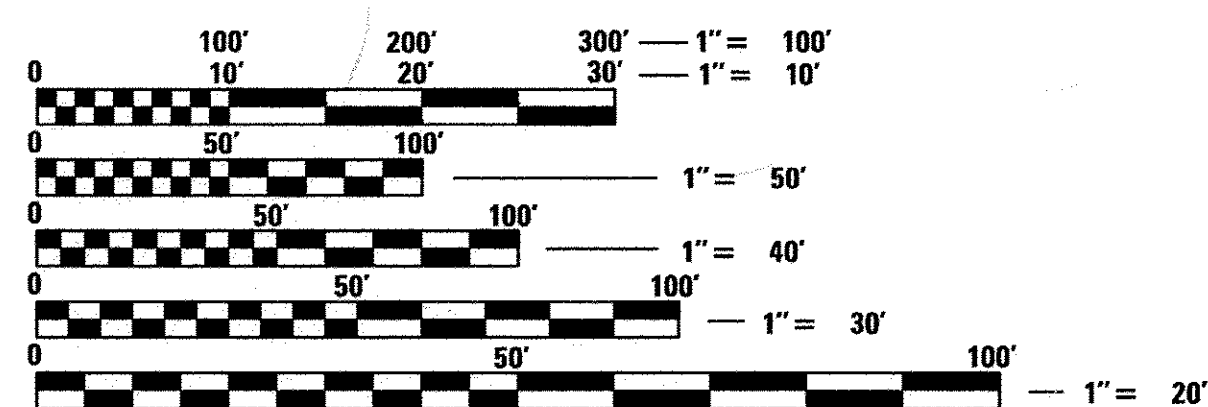
2011 ADT = 10,900
2040 ADT = 12,000

DESIGN/POSTED SPEED

POSTED SPEED: 40 MPH
DESIGN SPEED: 45 MPH

DESIGN DESIGNATION

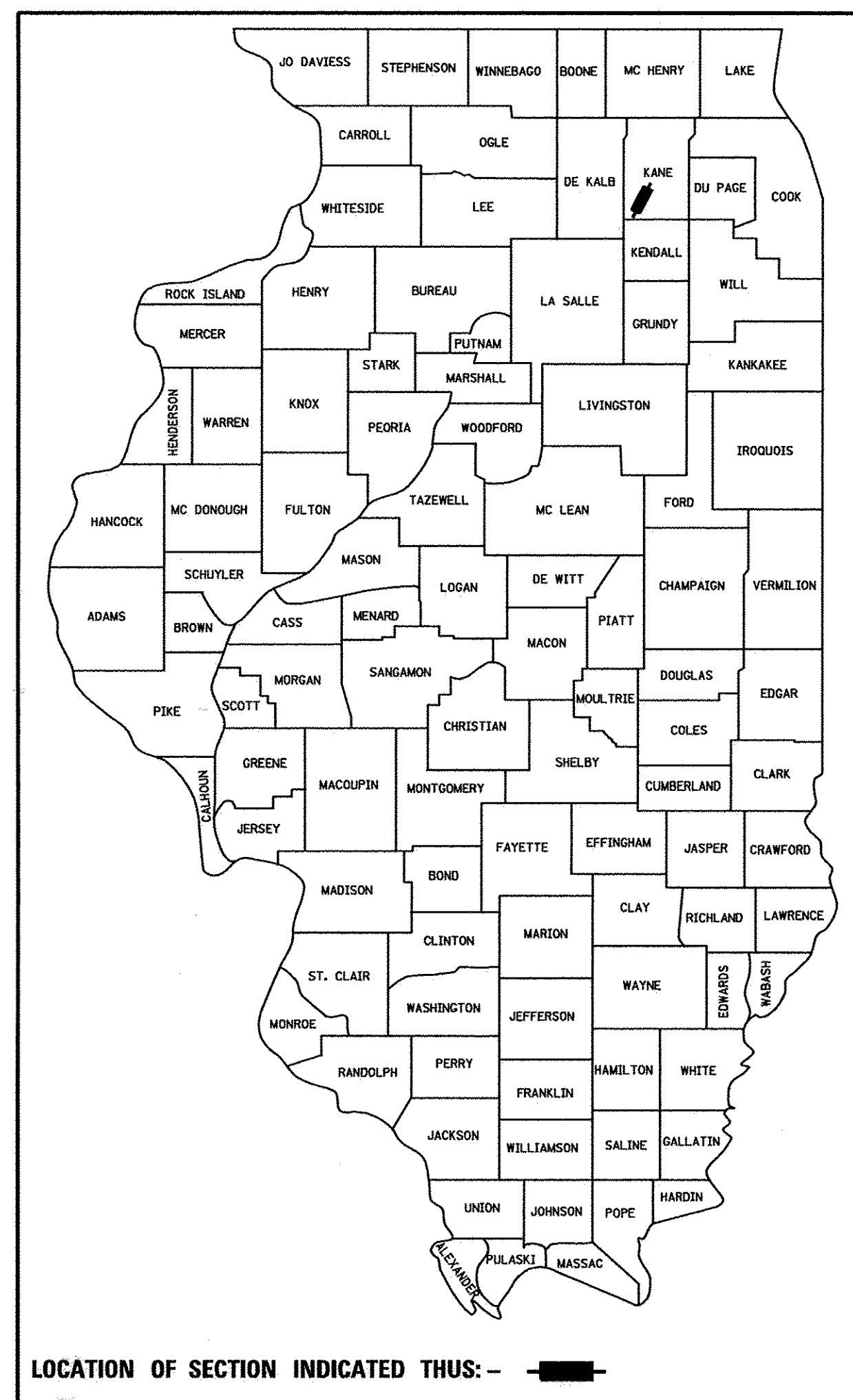
DESIGN DESIGNATION: OTHER PRINCIPAL ARTERIAL (OPA)



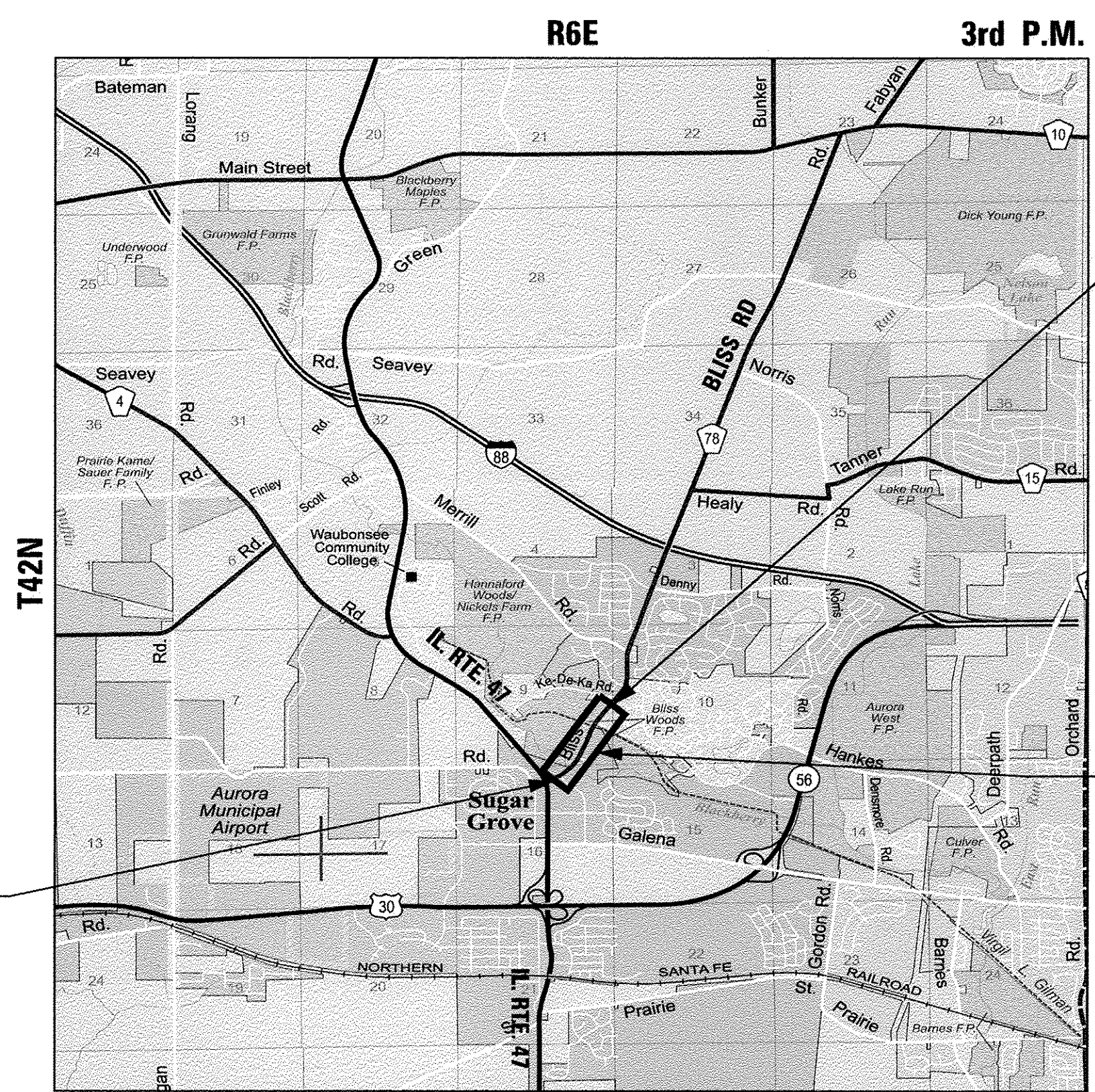
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

CONTRACT NO. 61D20

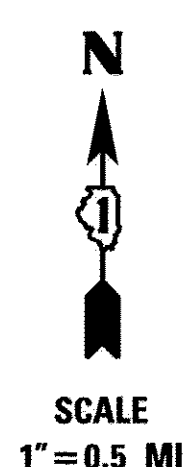


LOCATION OF SECTION INDICATED THUS: -



PROJECT BEGINS
STA 10 + 35.00

PROJECT ENDS
STA 28 + 50.00



SUGAR GROVE TOWNSHIP
PROJECT NET AND GROSS LENGTH = 1,815 FT (0.344 MILE)
PROJECT LOCATED IN:
THE NORTHWEST QUARTER OF SECTION 9 & 16, TOWNSHIP 38N,
RANGE 7E, OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, ILLINOIS

EX STRUCTURE NO. 045-3006
PR STRUCTURE NO. 045-3030

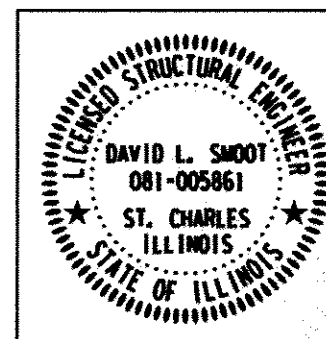
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED: July 27 2016
[Signature]
COUNTY OF KANE, COUNTY ENGINEER

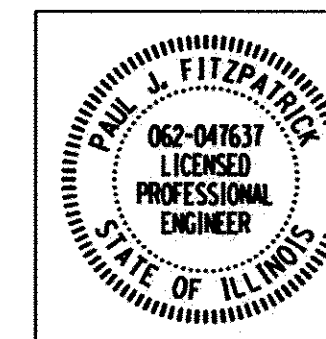
PASSED: AUGUST 18, 2016
[Signature]
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW: August 18, 2016
[Signature]
REGIONAL ENGINEER

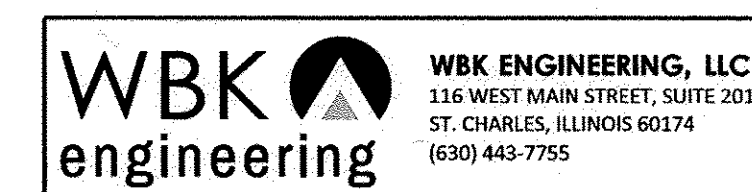
PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS



AUGUST 5 2016
[Signature]
DAVID L. SMOOT
ILLINOIS REG. PROFESSIONAL ENGINEER NO. 081-005861
EXPIRATION DATE 11-30-2016
SHEETS 96-119



AUGUST 5 2016
[Signature]
PAUL J. FITZPATRICK
ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-047637
EXPIRATION DATE 11-30-2017
SHEETS 1-95, 120-218



PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847) 705-4406 SCHAUMBURG, IL

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE APPLICABLE REQUIREMENTS SET FORTH IN "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1, 2016 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.
2. 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).
3. 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.
4. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
5. 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 COUNTY OR PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION OF THE ENGINEER.
6. 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.
7. 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 OR AS DIRECTED BY THE ENGINEER. CLEANING AND MAINTENANCE OF TRAFFIC CONTROL DEVICES, INCLUDING SIGNS, WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE INCLUDED THE APPLICABLE TRAFFIC CONTROL PAY ITEM.

DRAINAGE NOTES

1. 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.
2. ANY FARM DRAIN, FIELD TILE SYSTEM OR OTHER UNDERGROUND TILE FACILITY ENCOUNTERED IN THE WORK SHALL BE LOCATED AND STAKED AND REPORTED TO THE ENGINEER. DRAINAGE LINES THAT ARE CUT OR DAMAGED BY GRADING, TRENCHING, EXCAVATION OR OTHER CONSTRUCTION ACTIVITIES SHALL BE REPAIRED TO MAINTAIN THE ORIGINAL ALIGNMENT. IF THIS CANNOT BE ACCOMPLISHED, THE TILE SHALL BE REPAIRED AND CONNECTED TO THE PROPOSED STORM SEWER SYSTEM IN SUCH A MANNER AS TO RENDER THE LINES USABLE FOR THE PURPOSES INTENDED.

THE WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 611. THE MINIMUM SIZE FOR REPLACEMENT MUST BE 12 INCH AND SHALL BE PAID FOR AS "PIPE DRAINS" OF THE DIAMETER SPECIFIED". THE DRAIN PIPE MATERIAL SHALL BE PVC OR CORRUGATED PVC WITH A SMOOTH INTERIOR IN ACCORDANCE WITH SECTION 601. A TYPE A INLET W/ TYPE 1 CLOSED LID WILL BE CONSTRUCTED TO CONNECT THE TILE(S) AND/OR PIPE DRAIN. A NOMINAL QUANTITY OF 12", 15" AND 18" HAVE BEEN INCLUDED IN THE PLAN QUANTITIES.

PRIOR TO MAKING THE CONNECTION THE CONTRACTOR SHALL CLEAN THE ENDS OF THE TILE TO BE CONNECTED. IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATION THE EXISTING TILE SHALL BE REMOVED OR CRUSHED AND TRENCH BACKFILL MATERIAL SHALL BE PLACED IN THE TRENCH LEFT BY THE REMOVAL. THE TILE REMOVAL SHALL BE PAID FOR AS "EXISTING FIELD TILE REMOVAL". TRENCH BACKFILL WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF THE TILE REMOVAL.
3. MORTAR: ALL CONNECTION POINTS WHERE THE DRAIN TILE OR STORM SEWER ENTERS THE DRAINAGE STRUCTURE SHALL BE MORTARED ON THE INSIDE AND OUTSIDE OF THE DRAINAGE STRUCTURE. THE MORTAR MATERIAL SHALL BE PLACED AROUND THE ENTIRE CIRCUMFERENCE OF THE PIPE. THE MORTAR MATERIAL SHALL BE IN ACCORDANCE WITH SECTION 602.04. MORTARING THE PIPE CONNECTION SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE DRAIN TILE OR STORM SEWER PIPE AND INSTALLATION.

KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT

1. THE CONTRACTOR AND ENGINEER SHALL MEET WITH THE KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT TO COORDINATE ALL IN-STREAM WORK ACTIVITIES.
2. 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 BE NO ADDITIONAL COMPENSATION FOR PROVIDING THE COORDINATION AND WORK PLAN.
3. SEE EROSION CONTROL PLAN SHEETS FOR ADDITIONAL DETAILS, CONDITIONS AND NOTES.

TREES AND SHRUBS

1. THE TREE REMOVAL HAS BEEN COMPLETED THROUGH AN ADVANCED REMOVAL CONTRACT. CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN WORKING NEAR REMAINING EXISTING TREES AND SHRUBS TO AVOID DAMAGING THEM. THE CONTRACTOR SHALL REPLACE ANY DAMAGED TREES OR SHRUBS IN-KIND AT HIS OWN EXPENSE.

PERMANENT SURVEY MONUMENT

THERE IS A KANE COUNTY SURVEY MARKER THAT WILL BE REMOVED AS PART OF THE CONSTRUCTION OPERATIONS. A PROPOSED PERMANENT SURVEY MONUMENT (MARKER) SHALL BE CONSTRUCTED AS DETAILED IN THE PLANS. THE MARKER SHALL BE PLACED IN UNDISTURBED GROUND AT OR NEAR STA. 25+30.00, 50.00' LT. THE FINAL LOCATION SHALL BE APPROVED BY THE ENGINEER.

SEE SPECIAL PROVISION FOR "SURVEY MONUMENT" FOR ADDITIONAL INFORMATION AND REQUIREMENTS REGARDING THE INSTALLATION OF THE SURVEY MONUMENT.

EARTHWORK AND ROADWAY

1. 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 RESREADING IN SHOULDERS, CONSTRUCTING EMBANKMENTS, CUT OR BORROW AREAS SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE OF EARTH EXCAVATION.
2. THE CONTRACTOR WILL NOT BE ALLOWED TO STOCK PILE MATERIAL(S) BEYOND THE PROJECT LIMITS. THE CONTRACTOR WILL NOT PLACE STOCK PILES IN LOCATIONS WHERE THEY WILL DRAINAGE WAYS OR ON PAVEMENTS THAT ARE NOT SPECIFIED FOR REMOVAL. ANY DAMAGE REQUIRING REPAIR CAUSED BY THE CONTRACTORS STOCK PILING OR CONSTRUCTION OPERATIONS WILL BE DONE AT NO ADDITIONAL COST TO THE CONTRACT.
3. 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.
4. ALL EXCAVATION AND EMBANKMENT LOCATIONS REQUIRING SEEDING OR SODDING SHALL BE CONSTRUCTED TO 6 INCHES BELOW FINISHED GRADE LINE TO ALLOW TOPSOIL PLACEMENT.
5. PAVEMENT ELEVATIONS: THE ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES FOR THE PROPOSED PAVEMENT OR SURFACE COURSE, UNLESS OTHERWISE INDICATED.

REMOVAL NOTES

1. SAW CUTS: SAW CUTS SHALL BE PROVIDED AT 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 CONTRACT UNIT PRICE OF THE RELATED REMOVAL ITEM.
2. KANE COUNTY DIVISION OF TRANSPORTATION (KDOT) SHALL REMOVE ALL SIGNS, WHICH INCLUDE BUT ARE NOT LIMITED TO REGULATORY, WARNING AND RECREATION SIGNS, ALONG BLISS ROAD FOR THIS PROJECT. THE CONTRACTOR SHALL COORDINATE THE REMOVAL OF THESE SIGNS WITH THE ENGINEER. THE SIGNS TO BE REMOVED HAVE BEEN IDENTIFIED IN THE PLANS FOR GENERAL REFERENCE. THE SIGN RELATED ITEMS REMOVED SHALL REMAIN THE PROPERTY OF THE COUNTY.

RESTORATION OF AURORA SPORTSMAN CLUB PROPERTY

KANE COUNTY DIVISION OF TRANSPORTATION (KDOT) WILL COMPLETE TREE REMOVAL AND FENCE RELOCATION THROUGH ON THE AURORA SPORTSMAN CLUB PROPERTY AS PART OF AN ADVANCED TREE CLEARING PROJECT. BECAUSE THE TREE REMOVAL AND FENCING WORK WILL TAKE PLACE IN LATE WINTER OR EARLY SPRING IT IS ANTICIPATED THAT RESTORATION WILL NOT BE POSSIBLE. QUANTITIES HAVE BEEN INCLUDED IN THIS CONTRACT TO SEED, FERTILIZE AND BLANKET THE TEMPORARY EASEMENT AREA BEHIND THE RELOCATED FENCING. COORDINATION, THROUGH THE ENGINEER, WILL BE REQUIRED WITH THE OWNER TO ACCESS THE PROPERTY.

PROPOSED ROADWAY SIGNAGE

KANE COUNTY DIVISION OF TRANSPORTATION (KDOT) SHALL SUPPLY AND ERECT ALL REGULATORY, WARNING AND RECREATION SIGNS ALONG BLISS ROAD FOR THIS PROJECT. THE CONTRACTOR SHALL COORDINATE ALL SIGN INSTALLATION WORK WITH THE ENGINEER. THE SIGNS HAVE BEEN INCLUDED IN THE PLANS FOR GENERAL REFERENCE. THIS SIGNING DOES NOT APPLY TO TEMPORARY SIGNING REQUIRED FOR MAINTENANCE OF TRAFFIC.

RIGHT OF WAY MARKERS

RIGHT OF WAY MARKERS SHALL BE IN ACCORDANCE WITH SECTION 666 OF THE STANDARD SPECIFICATION AND AS DETAILED ON IDOT STANDARD 666001 AND SHALL BE INSTALLED PER METHOD A. THE LOCATION OF THE ROW MARKERS ARE SHOWN IN THE PLAT-OF-HIGHWAYS INCLUDED IN THE PLANS.

OWNER OF RECORD

THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THIS BRIDGE. FOR INFORMATION REGARDING THE EXISTING STRUCTURE SEE RECORD PLANS ON SHEETS 116-119.

HYDRAULIC REPORT

THOSE SEEKING THE FULL HYDRAULIC REPORT SHOULD CONTACT THE OWNER OF RECORD. TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION PLEASE CONTACT:

JENNIFER O'CONNELL, PE
PROJECT MANAGER
KANE COUNTY DIVISION OF TRANSPORTATION
630-584-1170
oconnelljennifer@co.kane.il.us

GEOTECHNICAL REPORT

THOSE SEEKING THE FULL GEOTECHNICAL REPORT SHOULD CONTACT THE OWNER OF RECORD. TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION PLEASE CONTACT:

JENNIFER O'CONNELL, PE
PROJECT MANAGER
KANE COUNTY DIVISION OF TRANSPORTATION
630-584-1170
oconnelljennifer@co.kane.il.us

COMMITMENTS

THE NORMAL WORKING HOURS FOR CONSTRUCTION OPERATIONS ARE CONSIDERED DAYTIME HOURS FROM 7:00 A.M. TO 6:00 P.M. MONDAY THROUGH SATURDAY. FOR CONSTRUCTION OPERATIONS OUTSIDE THE DESIGNATED NORMAL WORKING HOURS, THE CONTRACTOR MAY REQUEST IN WRITING TO HAVE THE NORMAL HOURS EXTENDED.

INDEX OF SHEETS

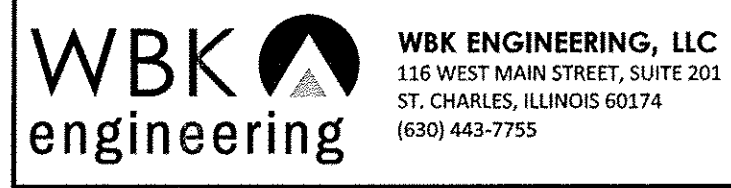
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES, INDEX OF SHEETS & STANDARDS
3-9	SUMMARY OF QUANTITIES
10-21	SCHEDULE OF QUANTITIES
22-30	TYPICAL SECTIONS
31	SUPERELEVATION TABLE
32	ALIGNMENT, TIES & BENCHMARKS
33-36	REMOVAL PLAN
37-39	PLAN & PROFILE
40-42	DETOUR PLANS
43-51	MAINTENANCE OF TRAFFIC TYPICAL SECTIONS
52-62	MAINTENANCE OF TRAFFIC PLANS
63-69	EROSION CONTROL, SEEDING & LANDSCAPING PLANS
70-73	DRAINAGE PLAN & PROFILE
74	WATER MAIN INSTALLATION SEQUENCE OF CONSTRUCTION
75-77	WATER MAIN PLAN & PROFILE
78-79	WATER MAIN DETAILS
80-83	GRADING PLANS
84-91	PLAT OF HIGHWAYS - FOR REFERENCE ONLY
92-94	PAVEMENT MARKING & SIGNING PLAN
95	CHURCH SIGN LANDSCAPING PLAN, LANDSCAPING DETAILS & PLANTING LISTS
96-119	STRUCTURAL PLANS
120-123	GENERAL DETAILS
124-132	DISTRICT 1 DETAILS
133-136	CROSS SECTIONS - BLACKBERRY CREEK
137-140	CROSS SECTIONS - STAGE 1A TEMPORARY DRIVEWAY
141-166	CROSS SECTIONS - STAGE 1A
167-192	CROSS SECTIONS - STAGE 1B
193-218	CROSS SECTIONS - STAGE 2 & 3

HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
442201-03	CLASS C AND D PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
602001-02	CATCH BASIN TYPE A
602301-04	INLET - TYPE A
602401-03	MANHOLE - TYPE A
602406-07	MANHOLE TYPE A 6' (1.8 m) DIAMETER
602411-05	MANHOLE TYPE A 7' (2.1 m) DIAMETER
602501-02	VALVE VAULT TYPE A
602601-04	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-04	FRAME AND LIDS TYPE 1
604036-03	GRATE TYPE 8
604091-03	FRAME AND GRATE TYPE 24
606001-06	CONCRETE CURB TYPE B AND COMINATION CONCRETE CURB AND GUTTER
630001-11	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-07	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
666001-01	RIGHT OF WAY MARKERS
701006-05	OFF-RD OPERATION 2L, 2W, 15' (4.5 m) TO 24" (600 mm) 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
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-06	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATION RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

DISTRICT STANDARDS (INCLUDED IN PLAN SET)

STANDARD NO.	DESCRIPTION
BD-01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15'
BD-32	BUTT JOINTS AND HMA TAPER DETAILS
BD-34	DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL.
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-16	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS
TC-26	DRIVEWAY ENTRANCE SIGNING



USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES,
INDEX OF SHEETS & STANDARDS

SCALE:	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 2
CONTRACT NO.61D20							
ILLINOIS FED. AID PROJECT							

SUMMARY OF QUANTITIES

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
						80% FEDERAL 20% STATE			NON-PARTICIPATING 100% LOCAL	
						ROADWAY 0004 URBAN	BRIDGE 0011 URBAN	TRAINEES 0042 URBAN	ROADWAY 0004 URBAN	UTILITIES 0043 URBAN
		20101000	TEMPORARY FENCE	FOOT	200	200				
		20101100	TREE TRUNK PROTECTION	EACH	18	18				
	S	20200100	EARTH EXCAVATION	CU YD	6,201	4,192			2,009	
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	297	75			222	
		20300100	CHANNEL EXCAVATION	CU YD	78	78				
		20400800	FURNISHED EXCAVATION	CU YD	5,044	4,350			694	
		20800150	TRENCH BACKFILL	CU YD	325	299			26	
		21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	1,192				1,192	
		21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	2,419	1,483			936	
		25000210	SEEDING, CLASS 2A	ACRE	2.75	1.25			1.5	
		25000312	SEEDING, CLASS 4A	ACRE	0.5	0.5				
		25000314	SEEDING, CLASS 4B	ACRE	0.75	0.75				
		25000400	NITROGEN FERTILIZER NUTRIENT	POUND	248	111			137	
		25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	248	111			137	
		25100630	EROSION CONTROL BLANKET	SO YD	18,406	10,978			7,428	
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,464	865			599	
		28000305	TEMPORARY DITCH CHECKS	FOOT	370	200			170	
		28000315	AGGREGATE DITCH CHECKS	TON	4.3	4.3				
		28000400	PERIMETER EROSION BARRIER	FOOT	3,807	2,252			1,555	
		28000500	INLET AND PIPE PROTECTION	EACH	4	2			2	
		28000510	INLET FILTERS	EACH	10	10				
		28100105	STONE RIPRAP, CLASS A3	SO YD	42	35			7	
		28100107	STONE RIPRAP, CLASS A4	SO YD	911	336	575			
		28200200	FILTER FABRIC	SO YD	953	371	576		6	
	S	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	297	75			222	
	S	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	7,259	4,721			2,538	
		31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	28	28				
		31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SO YD	1,854	1,515			339	
		35501332	HOT-MIX ASPHALT BASE COURSE, 12"	SO YD	518				518	
		35600724	HOT-MIX ASPHALT BASE COURSE WIDENING, 12"	SO YD	297	146			151	
		40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	388	97			291	
		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	212	152			60	

FILE NAME = M:\Projects\2013\130282 - Bliss Ph\Road\Civil\Qgn\Sht\500.dwg

SUMMARY OF QUANTITIES

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
						80% FEDERAL 20% STATE			NON-PARTICIPATING 100% LOCAL	
						ROADWAY 0004 URBAN	BRIDGE 0011 URBAN	TRAINEES 0042 URBAN	ROADWAY 0004 URBAN	UTILITIES 0043 URBAN
		40600990	TEMPORARY RAMP	SO YD	275	233			42	
		40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	1,759	1,249			510	
		40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1,015	610			405	
		40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	888	567			321	
		40800025	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4,439	2,835			1,604	
		42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SO YD	143	143				
		44000100	PAVEMENT REMOVAL	SO YD	3,800	2,682			1,118	
		44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SO YD	1,132				1,132	
		44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	969	969				
		44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	1,260	1,064			196	
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,041	1,041				
		44004000	PAVED DITCH REMOVAL	FOOT	155	155				
		44201717	CLASS D PATCHES, TYPE II, 6 INCH	SO YD	10	10				
		44201721	CLASS D PATCHES, TYPE III, 6 INCH	SO YD	32	16			16	
		44201745	CLASS D PATCHES, TYPE III, 8 INCH	SO YD	38	19			19	
		44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SO YD	51	51				
		44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	800		800			
		48203009	HOT-MIX ASPHALT SHOULDERS, 3"	SO YD	131	131				
		48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SO YD	1,034	645			389	
		50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1			
		50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1				
		50105220	PIPE CULVERT REMOVAL	FOOT	165	123			42	
		50200100	STRUCTURE EXCAVATION	CU YD	117		117			
		50300225	CONCRETE STRUCTURES	CU YD	89.8		89.8			
		50300255	CONCRETE SUPERSTRUCTURE	CU YD	170.3		170.3			
		50300260	BRIDGE DECK GROOVING	SO YD	750		750			
		50300300	PROTECTIVE COAT	SO YD	875		875			
		50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	153		153			
		50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	LSUM	1		1			
		50500505	STUD SHEAR CONNECTORS	EACH	1,560		1,560			
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	84,670		84,670			
		50800515	BAR SPLICERS	EACH	540		540			

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WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 10/21/2016	CHECKED - SBP/NDP	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET NO. 2 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 4
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
						80% FEDERAL 20% STATE			NON-PARTICIPATING 100% LOCAL	
						ROADWAY 0004 URBAN	BRIDGE 0011 URBAN	TRAINEES 0042 URBAN	ROADWAY 0004 URBAN	UTILITIES 0043 URBAN
		51201600	FURNISHING STEEL PILES HP12X53	FOOT	462		462			
		51202305	DRIVING PILES	FOOT	462		462			
		51203600	TEST PILE STEEL HP12X53	EACH	2		2			
		51204650	PILE SHOES	EACH	16		16			
		51500100	NAME PLATES	EACH	1		1			
		52100520	ANCHOR BOLTS, 1"	EACH	32		32			
		52200010	TEMPORARY SHEET PILING	SQ FT	3,896		3,896			
		52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	391		391			
	S	52200800	SEGMENTAL CONCRETE BLOCK WALL	SQ FT	187	187				
	S	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	4	2		2		
		54215436	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 36"	EACH	1	1				
		5421C012	PIPE CULVERTS, CLASS C, TYPE 1 12" (TEMPORARY)	FOOT	48	48				
		542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	84	36		48		
		550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	180	180				
		550A0160	STORM SEWERS, CLASS A, TYPE 1 36"	FOOT	283	283				
	S	56100600	WATER MAIN 6"	FOOT	90					90
	S	56100900	WATER MAIN 12"	FOOT	1,128					1,128
	S	56400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	1					1
	S	56400500	FIRE HYDRANTS TO BE REMOVED	EACH	2					2
		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	98		98			
		59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	75	75				
		60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	7	4		3		
		60100945	PIPE DRAINS 12"	FOOT	120	120				
		60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	47	16		31		
		60108204	PIPE UNDERDRAINS, TYPE 2, 4"	FOOT	2,133	975		1,158		
		60203905	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1				
		60221000	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1				
		60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1				
		60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1				
		60235300	INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID	EACH	2	2				
		60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	3	3				
		60240328	INLETS, TYPE B, TYPE 24 FRAME AND GRATE	EACH	2	2				

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WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nparr1s	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO. 3 OF 7 SHEETS	STA.	TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 5
CONTRACT NO. 61D20				ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			NON-PARTICIPATING	NON-PARTICIPATING
						80% FEDERAL 20% STATE			100% LOCAL	100% LOCAL
						ROADWAY 0004 URBAN	BRIDGE 0011 URBAN	TRAINEES 0042 URBAN	ROADWAY 0004 URBAN	UTILITIES 0043 URBAN
.	S	60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2					2
		60256940	MANHOLES TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE	EACH	1	1				
	S	60265700	VALVE VAULTS TO BE ADJUSTED	EACH	2	2				
		60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	66	66				
		60605000	COMBINATION CONCRETE CURB AND GUTTER,TYPE B-6.24	FOOT	992	992				
.		63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	337.5	337.5				
.		63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4				
.		63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4				
*		63200310	GUARDRAIL REMOVAL	FOOT	592	592				
		67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	7	7				
		67100100	MOBILIZATION	LSUM	1	1				
	S	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	16	16				
		70300100	SHORT TERM PAVEMENT MARKING	FOOT	883	544			339	
		70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	292	180			112	
		70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	7,728	4,387			3,341	
		70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	50	42			8	
		70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	705	705				
		70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,600	1,125			475	
		70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,450	1,088			362	
.		70600242	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2				
.		70600342	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 2	EACH	2	2				
.		72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4				
.		78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	255	218			37	
.		78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	9,205	5,781			3,424	
.		78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	732	501			231	
.		78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	2,066	1,614			452	
.		78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	282	228			54	
.		78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	73	56			17	
.		78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	6	6				
.	S	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	13	13				
.		78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	124	92			32	
*		78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	27	27				

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WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 10/25/2016	CHECKED - SBP/NDP	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO. 4 OF 7 SHEETS	STA.	TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 6
CONTRACT NO.61D20				ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
						80% FEDERAL 20% STATE			NON-PARTICIPATING 100% LOCAL	
						ROADWAY 0004 URBAN	BRIDGE 0011 URBAN	TRAINEES 0042 URBAN	ROADWAY 0004 URBAN	UTILITIES 0043 URBAN
•		A2002920	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	3				3	
•		A2005020	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	4				4	
•		A2005674	TREE, OSTRYA VIRGINIANA (AMERICAN HOPHORNBEAM), 10' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	12	11			1	
•		A2006520	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	3	3				
•		A2006618	TREE, QUERCUS IMBRICARIA (SHINGLE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	3	3				
•		A2006720	TREE, QUERCUS MACROCARPA (BUR OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	5	4			1	
•		A2008519	TREE, ULMUS MORTON GLOSSY (TRIUMPH ELM), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	3	3				
•		B2000766	TREE, AMELANCHIER X GRANDIFLORA AUTUMN BRILLIANCE (AUTUMN BRILLIANCE SERVICE BERRY), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	6	6				
•		B2001166	TREE, CERCIS CANADENSIS (EASTERN REDBUD), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	7	6			1	
•		B2001566	TREE, CRATAEGUS CRUSGALLI (COCKSPUR HAWTHORN), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	6	3			3	
•		B2001866	TREE, CRATAEGUS MOLLIS (DOWNY HAWTHORN), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	5	2			3	
•		C2000536	SHRUB, ARONIA MELANOCARPA (BLACK CHOKE BERRY), 3' HEIGHT, BALLED AND BURLAPPED	EACH	9	5			4	
•		C2001136	SHRUB, CEPHALANTHUS OCCIDENTALIS (BUTTON BUSH), 3' HEIGHT, BALLED AND BURLAPPED	EACH	11	11				
•		C2001636	SHRUB, CORNUS SERICEA (REDSIER DOGWOOD), 3' HEIGHT, BALLED AND BURLAPPED	EACH	16	11			5	
•		C2002036	SHRUB, CORYLUS AMERICANA (AMERICAN FILBERT), 3' HEIGHT, BALLED AND BURLAPPED	EACH	10	10				
•		C2003436	SHRUB, HYDRANGEA ARBORESCENS ANNABELLE (ANNABELLE SMOOTH HYDRANGEA), 3' HEIGHT, BALLED AND BURLAPPED	EACH	7	7				
•		C2004536	SHRUB, MYRICA PENNSYLVANICA (BAYBERRY), 3' HEIGHT, BALLED AND BURLAPPED	EACH	7	7				
•		C2004840	SHRUB, PHYSOCARPUS OPULIFOLIUS MONLO (DIABLO COMMON NINEBARK), 3' HEIGHT, BALLED AND BURLAPPED	EACH	7				7	
•		C2007224	SHRUB, ROSA KNOCKOUT (KNOCKOUT ROSE), 24" HEIGHT, CONTAINER	EACH	10	10				
•		C2009410	SHRUB, SALIX DISCOLOR (PUSSY WILLOW), 3' HEIGHT, BALLED AND BURLAPPED	EACH	11	11				
•		C2009636	SHRUB, SAMBUCUS CANADENSIS (AMERICAN ELDER), 3' HEIGHT, BALLED AND BURLAPPED	EACH	11	8			3	
•		C2010324	SHRUB, SPIREA NIPPONICA SNOWMOUND (SNOW MOUND NIPPON SPIREA), 2' HEIGHT, BALLED AND BURLAPPED	EACH	10	10				
•		C2010924	SHRUB, SYRINGA MEYERI PALIBIN (DWARF KOREAN LILAC), 2' HEIGHT, BALLED AND BURLAPPED	EACH	10	10				
•		C2012760	SHRUB, VIBURNUM PRUNIFOLIUM (BLACKHAW VIBURNUM), 5' HEIGHT, BALLED AND BURLAPPED	EACH	5	5				
•		C2C02936	SHRUB, FORSYTHIA X INTERMEDIA (BORDER FORSYTHIA), 3' HEIGHT, CONTAINER	EACH	8	8				
•		C2C03432	SHRUB, HYDRANGEA QUERCIFOLIA (OAKLEAF HYDRANGEA), 2' HEIGHT, CONTAINER	EACH	7	7				
•		C2C06218	SHRUB, RIBES AMERICANUM (WILD BLACK CURRANT), 18" HEIGHT, CONTAINER	EACH	7	7				
•		D2001984	EVERGREEN, PICEA GLAUCA DENSATA (BLACK HILLS SPRUCE), 7' HEIGHT, BALLED AND BURLAPPED	EACH	7	7				
•		D2002184	EVERGREEN, PICEA PUNGENS (COLORADO SPRUCE), 7' HEIGHT, BALLED AND BURLAPPED	EACH	7	7				
•		D2002984	EVERGREEN, PINUS STROBUS (EASTERN WHITE PINE), 7' HEIGHT, BALLED AND BURLAPPED	EACH	3	3				
	S	X0326806	WASHOUT BASIN	LSUM	1	1				
	S	X0327008	REMOVE AND RELOCATE SIGN (SPECIAL)	EACH	1	1				

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WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nparr1s	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO. 5 OF 7 SHEETS	STA.	TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 7
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
						80% FEDERAL 20% STATE			NON-PARTICIPATING 100% LOCAL	
						ROADWAY 0004 URBAN	BRIDGE 0011 URBAN	TRAINES 0042 URBAN	ROADWAY 0004 URBAN	UTILITIES 0043 URBAN
*	S	X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SO*FT	3,148	1,652			1,496	
•	S	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	627	627				
*	S	X2090215	SELECT GRANULAR BACKFILL, SPECIAL	CU YD	16					16
	S	X2111110	TOPSOIL PLACEMENT	CU YD	113	38			75	
	S	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	200	200				
	S	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	1	1				
	S	X4022000	TEMPORARY ACCESS (COMMERCIAL ENTRANCE)	EACH	4	3			1	
	S	X4400110	TEMPORARY PAVEMENT REMOVAL	SO YD	991	784			207	
	S	X5510100	STORM SEWER REMOVAL	FOOT	214	214				
*	S	X5610662	WATER MAIN TO BE ABANDONED, 12"	FOOT	1,114					1,114
•	S	X5630712	CONNECTION TO EXISTING WATER MAIN 12"	EACH	3					3
•	S	X5640150	FIRE HYDRANT ASSEMBLY COMPLETE	EACH	4					4
	S	X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	175		175			
	S	X6026622	VALVE VAULTS TO BE REMOVED	EACH	3					3
•	S	X6330075	RELOCATE TRAFFIC BARRIER TERMINAL, (TEMPORARY)	EACH	1	1				
•	S	X6331009	REMOVE AND REPLACE STEEL PLATE BEAM GUARDRAIL, SPECIAL	FOOT	179	179				
	S	X6610200	HOT-MIX ASPHALT CURB REPAIR	FOOT	16	16				
	S	X6660445	RIGHT OF WAY AND PROPERTY CORNERS	EACH	13	13				
	S	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1				
	S	X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	367	192			175	
	S	X7240207	REMOVE EXISTING SIGN COMPLETE	EACH	1	1				
•	S	X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	104	57			47	
*	S	X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	18				18	
•	S	XX003032	GATE VALVES, 12"	EACH	2					2
	S	XX003168	WORK ZONE PAVEMENT MARKING REMOVAL, SPECIAL	FOOT	705	705				
•	S	XX004997	WATER SERVICE CONNECTION, 2"	EACH	1					1
•	S	XX005054	LANDSCAPE PLANTING COMPLETE	LSUM	1	1				
	S	XX005633	ENTRY SIGNAGE	EACH	1	1				
	S	XX007958	DIVERSION STRUCTURE	EACH	1	1				
	S	Z0004530	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"	SO YD	25	25				
	S	Z0004538	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10"	SO YD	839	707			132	
	S	Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SO YD	89	89				

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WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparr1s	DESIGNED - SBP	REVISED - 10/17/16
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE:	SHEET NO. 6 OF 7 SHEETS	STA.	TO STA.
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F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 8
CONTRACT NO. 61D20				ILLINOIS FED. AID PROJECT

WATER MAIN AND APPURTENANCE SCHEDULE

LOCATION	56100600	56100900	56400300	56400500	60248900	60265700	X2090215	X5610662	X5630712	X5640150	X6026622	XX003032	XX004997
	WATER MAIN 6"	WATER MAIN 12"	FIRE HYDRANTS TO BE ADJUSTED	FIRE HYDRANTS TO BE REMOVED	VALVE VAULTS, TYPE A, 5'- DIAMETER, TYPE 1 FRAME, CLOSED LID	VALVE VAULTS TO BE ADJUSTED	SELECT GRANULAR BACKFILL, SPECIAL	WATER MAIN TO BE ABANDONED, 12"	CONNECTION TO EXISTING WATER MAIN 12"	FIRE HYDRANT ASSEMBLY COMPLETE	VALVE VAULTS TO BE REMOVED	GATE VALVES, 12"	WATER SERVICE CONNECTION, 2"
	(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(CU YD)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)
MAINLINE													
7+00.00 - 7+50.00													
7+50.00 - 8+00.00													
8+00.00 - 8+50.00													
8+50.00 - 9+00.00													
9+00.00 - 9+50.00													
9+50.00 - 10+00.00													
10+00.00 - 10+50.00													
10+50.00 - 11+00.00													
11+00.00 - 11+50.00													
11+50.00 - 12+00.00													
12+00.00 - 12+50.00													
12+50.00 - 13+00.00													
13+00.00 - 13+50.00													
13+50.00 - 14+00.00													
14+00.00 - 14+50.00													
14+50.00 - 15+00.00													
15+00.00 - 15+50.00													
15+50.00 - 16+00.00													
16+00.00 - 16+50.00													
16+50.00 - 17+00.00													
17+00.00 - 17+50.00	20.0	42.0						39.0	2.0	1.0		1.0	
17+50.00 - 18+00.00		50.0						52.0					
18+00.00 - 18+50.00		50.0						51.0					
18+50.00 - 19+00.00		50.0						51.0					
19+00.00 - 19+50.00	30.0	50.0						50.0		1.0	1.0		
19+50.00 - 20+00.00		50.0						50.0		0.0			1.0
20+00.00 - 20+50.00		50.0					15.3	50.0					
20+50.00 - 21+00.00		50.0		1.0				50.0			1.0		
21+00.00 - 21+50.00		50.0						50.0					
21+50.00 - 22+00.00		50.0						50.0					
22+00.00 - 22+50.00	20.0	50.0						50.0		1.0			
22+50.00 - 23+00.00		50.0						50.0					
23+00.00 - 23+50.00		50.0						50.0					
23+50.00 - 24+00.00		50.0						50.0					
24+00.00 - 24+50.00		50.0		1.0				50.0			1.0		
24+50.00 - 25+00.00		50.0						50.0					
25+00.00 - 25+50.00	20.0	50.0						50.0		1.0			
25+50.00 - 26+00.00		50.0						50.0					
26+00.00 - 26+50.00		50.0						50.0					
26+50.00 - 27+00.00		50.0						50.0					
27+00.00 - 27+50.00		58.0						50.0					
27+50.00 - 28+00.00		28.0						21.0	1.0			1.0	
28+00.00 - 28+50.00			1.00										
28+50.00 - 29+00.00													
TOTAL	90.0	1128.0	1.0	2.0	2.0	2.0	15.3	1114.0	3.0	4.0	3.0	2.0	1.0
ADJUSTED TOTAL	90.0	1128.0	1.0	2.0	2.0	2.0	16.0	1114.0	3.0	4.0	3.0	2.0	1.0

FILE NAME = N:\P\Projects\2013\1302292_B1as_Pht\cead\Civil\Drawings\SCHDULE.01.dgn

	USER NAME = nporris DESIGNED - SBP DRAWN - NDP CHECKED - SBP/NDP DATE - 8/8/16	REVISED - 10/17/16 REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES	F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 10	
	PLOT SCALE = 1:1 PLOT DATE = 10/24/2016				SCALE:		SHEET NO. 1 OF 12 SHEETS		STA. TO STA.	
	CONTRACT NO. 61D20 ILLINOIS FED. AID PROJECT									

PAVEMENT SCHEDULE

LOCATION	30300112	31101100	31101200	35501332	35600724	40600635	40603085	40603340	40700100	40800025	42000070	44300200	48203009	48203023	60603800	60605000	Z0004530	Z0004538
	AGGREGATE SUBGRADE IMPROVEMENT 12"	SUBBASE GRANULAR MATERIAL, TYPE B	SUBBASE GRANULAR MATERIAL, TYPE B 4"	HOT-MIX ASPHALT BASE COURSE, 12"	HOT-MIX ASPHALT BASE COURSE WIDENING, 12"	LEVELING BINDER (MACHINE METHOD), N70	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	BITUMINOUS MATERIALS (TACK COAT)	BITUMINOUS MATERIALS (PRIME COAT)	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	STRIP REFLECTIVE CRACK CONTROL TREATMENT	HOT-MIX ASPHALT SHOULDERS, 3"	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 8"	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 10"
	(SQ YD)	(CU YD)	(SQ YD)	(SQ YD)	(SQ YD)	(TON)	(TON)	(TON)	(POUND)	(POUND)	(SQ YD)	(FOOT)	(SQ YD)	(SQ YD)	(FOOT)	(FOOT)	(FOOT)	(FOOT)
MAINLINE																		
7+00.00 - 7+50.00																		
7+50.00 - 8+00.00																		
8+00.00 - 8+50.00																		
8+50.00 - 9+00.00																		
9+00.00 - 9+50.00																		
9+50.00 - 10+00.00					2.2	3.192										15.0		
10+00.00 - 10+50.00	5.0				16.4	15.44		9.5	4.4	21.8						50.0		
10+50.00 - 11+00.00	33.5		43.8		65.8	29.18		52.5	24.3	121.2						112.0		
11+00.00 - 11+50.00	103.4		91.4		61.5	48.83		50.3	28.0	139.8						101.0	24.2	
11+50.00 - 12+00.00	95.8		89.5				93.0	28.7	20.5	102.4						101.2		
12+00.00 - 12+50.00	289.8		85.7				93.0	28.7	30.1	150.5						101.2		
12+50.00 - 13+00.00	289.8		252.8				93.0	28.7	29.9	149.6					33.0	101.2		183.3
13+00.00 - 13+50.00	287.2		502.7				93.0	28.7	38.2	191.0				33.0	101.2			433.2
13+50.00 - 14+00.00	313.0	5.5	69.5				93.0	31.3	53.1	265.6			24.58		101.2			
14+00.00 - 14+50.00	309.8	6.4	34.2				93.0	30.9	31.1	155.6			41.01		101.2			
14+50.00 - 15+00.00	306.6	4.6					97.5	30.8	30.3	151.3	75.1		42.70		100.0			
15+00.00 - 15+50.00	348.5	10.7	15.2				5.0	36.4	31.8	159.0					6.0			
15+50.00 - 16+00.00	31.9								2.9	14.2								
16+00.00 - 16+50.00			11.9				5.8		0.0	0.0	67.9							
16+50.00 - 17+00.00	40.0		21.5				72.8	4.1	4.3	21.2					20.90			
17+00.00 - 17+50.00	314.9		24.7				72.8	34.7	32.0	160.1					109.43			
17+50.00 - 18+00.00	305.7		29.7				72.8	33.6	31.3	156.3					100.49			
18+00.00 - 18+50.00	301.9		35.7				72.8	33.2	31.2	155.8					97.34			
18+50.00 - 19+00.00	290.2		36.6				72.8	31.9	30.3	151.3					84.88			
19+00.00 - 19+50.00	271.2		32.0				72.8	29.8	28.4	142.0					65.63			
19+50.00 - 20+00.00	261.1		26.7				72.8	28.7	27.2	135.8					55.56			
20+00.00 - 20+50.00	261.1		111.6				72.8	28.7	26.9	134.4					55.56			0.2
20+50.00 - 21+00.00	261.1		19.8				72.8	28.7	31.1	155.7					55.56			90.3
21+00.00 - 21+50.00	261.1		20.7				72.8	28.7	26.5	132.7					55.56			
21+50.00 - 22+00.00	261.1		24.4				72.8	28.7	26.6	133.0					55.56			
22+00.00 - 22+50.00	261.1		29.0				72.8	28.7	26.8	133.9					55.47			
22+50.00 - 23+00.00	261.1		34.4				72.8	28.7	27.0	135.0					55.46			
23+00.00 - 23+50.00	261.1		38.7				72.8	28.7	27.3	136.4					55.6			
23+50.00 - 24+00.00	261.1		39.2			27.37	72.8	28.7	27.5	137.5					55.6			
24+00.00 - 24+50.00	261.1		33.0	107.2		36.70	28.7	27.5	27.5	137.6								33.0
24+50.00 - 25+00.00	111.6		98.8	106.3		57.49	27.0	19.1	95.4			100.0						98.8
25+00.00 - 25+50.00	109.8			102.5		54.79	26.0	21.9	109.4			100.0						
25+50.00 - 26+00.00	108.0			90.5		35.90	28.0	17.8	88.9			100.0						
26+00.00 - 26+50.00	96.1			78.4		27.44	26.8	16.6	83.0			100.0						
26+50.00 - 27+00.00	84.0			32.8	34.7	26.92	25.4	15.3	76.7			100.0						
27+00.00 - 27+50.00	72.7				60.9	23.91	24.1	14.2	70.9			100.0						
27+50.00 - 28+00.00	66.3				55.6		23.5	13.6	67.9			100.0						
28+00.00 - 28+50.00	61.4						23.0	13.1	65.4			100.0						
28+50.00 - 29+00.00									0.2									
TOTAL	7258.9	27.3	1853.3	517.6	297.0	387.1	1758.5	1014.6	887.8	4438.6	143.0	800.0	130.2	1034.0	66.0	991.2	24.2	838.6
ADJUSTED TOTAL	7259.0	28.0	1854.0	518.0	297.0	388.0	1759.0	1015.0	888.0	4439.0	143.0	800.0	131.0	1034.0	66.0	992.0	25.0	839.0

FILE NAME = M:\P\Projects\2013\1302282 B1as PH1\cedd\C1\1\Dgn\Sh1\SCHEDULE.E.dgn

WBK engineering
 WBK ENGINEERING, LLC
 316 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
	DRAWN - NDP	REVISED -
PLOT SCALE = 1:1	CHECKED - SBP/NDP	REVISED -
PLOT DATE = 10/24/2016	DATE - 8/8/16	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO. 2 OF 12 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	11
CONTRACT NO.61D20				
ILLINOIS FED. AID PROJECT				

REMOVAL SCHEDULE

LOCATION	44000100	44000157	44000159	44000200	44000500	44004000	50100100	50104400	50105220	63200310	X5510100	X7830050	Z0018700
	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	DRIVEWAY PAVEMENT REMOVAL	COMBINATION CURB AND GUTTER REMOVAL	PAVED DITCH REMOVAL	REMOVAL OF EXISTING STRUCTURES	CONCRETE HEADWALL REMOVAL	PIPE CULVERT REMOVAL	GUARDRAIL REMOVAL	STORM SEWER REMOVAL	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	DRAINAGE STRUCTURE TO BE REMOVED
	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(FOOT)	(FOOT)	(EACH)	(EACH)	(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)
MAINLINE													
7+00.00 - 7+50.00												1.0	
7+50.00 - 8+00.00												2.0	
8+00.00 - 8+50.00												2.0	
8+50.00 - 9+00.00												5.0	
9+00.00 - 9+50.00												3.0	
9+50.00 - 10+00.00	1.7											3.0	
10+00.00 - 10+50.00	5.6											2.0	
10+50.00 - 11+00.00			408.4										
11+00.00 - 11+50.00	12.8		364.8	29.4									
11+50.00 - 12+00.00	198.5		195.1										
12+00.00 - 12+50.00	191.2												
12+50.00 - 13+00.00	179.5												
13+00.00 - 13+50.00	183.5			202.6		75.0		35.0				7.0	1.0
13+50.00 - 14+00.00	165.9			53.2		91.0		52.0				50.0	
14+00.00 - 14+50.00	159.8			2.8		100.0		52.0				50.0	
14+50.00 - 15+00.00	155.2			497.7		100.0		16.0				50.0	2.0
15+00.00 - 15+50.00	84.5			144.7		100.0						7.0	
15+50.00 - 16+00.00						55.0							
16+00.00 - 16+50.00	91.0												
16+50.00 - 17+00.00	152.1												
17+00.00 - 17+50.00	151.8												
17+50.00 - 18+00.00	151.8												
18+00.00 - 18+50.00	151.4												
18+50.00 - 19+00.00	150.9												
19+00.00 - 19+50.00	150.7												
19+50.00 - 20+00.00	151.2												
20+00.00 - 20+50.00	152.2			6.0									
20+50.00 - 21+00.00	151.8			127.4									
21+00.00 - 21+50.00	151.9												
21+50.00 - 22+00.00	151.9												
22+00.00 - 22+50.00	152.4												
22+50.00 - 23+00.00	153.4												
23+00.00 - 23+50.00	152.7												
23+50.00 - 24+00.00	152.7												
24+00.00 - 24+50.00	5.6												
24+50.00 - 25+00.00	5.6	148.4		51.7									
25+00.00 - 25+50.00	5.6	149.0		142.9									
25+50.00 - 26+00.00	5.6	149.1		1.6									
26+00.00 - 26+50.00	5.6	149.0											
26+50.00 - 27+00.00	5.6	148.4											
27+00.00 - 27+50.00	5.6	148.1											
27+50.00 - 28+00.00	5.6	149.2											
28+00.00 - 28+50.00	5.6	89.8											
28+50.00 - 29+00.00													
COMPENSATORY STORAGE AREA													
TOTAL	3799.1	1131.1	968.2	1259.9	1041.0	155.0	1.0	1.0	165.0	592.0	214.0	18.0	5.0
ADJUSTED TOTAL	3800.0	1132.0	969.0	1260.0	1041.0	155.0	1.0	1.0	165.0	592.0	214.0	18.0	5.0

FILE NAME = M:\Projects\2013\1302282 B1as PH1\cadd\Civil\Drawings\Sched\REMOVAL SCHEDULE.E.03.dgn

WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
	DRAWN - NDP	REVISED -
PLOT SCALE = 1:1	CHECKED - SBP/NDP	REVISED -
PLOT DATE = 10/24/2016	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO. 3 OF 12 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	12
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

EROSION CONTROL SCHEDULE

SEEDING SCHEDULE

LOCATION	20101000	20101100	25100630	28000250	28000305	28000315	28000400	28000500	28000510	28100105	28100107	28200200
	TEMPORARY FENCE	TREE TRUNK PROTECTION	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	AGGREGATE DITCH CHECK	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	INLET FILTERS	STONE RIPRAP, CLASS A3	STONE RIPRAP, CLASS A4	FILTER FABRIC
	(FOOT)	(EACH)	(SQ YD)	(POUND)	(FOOT)	(TON)	(FOOT)	(EACH)	(EACH)	(SQ YD)	(SQ YD)	(SQ YD)
MAINLINE												
7+00.00 - 7+50.00												
7+50.00 - 8+00.00												
8+00.00 - 8+50.00												
8+50.00 - 9+00.00												
9+00.00 - 9+50.00												
9+50.00 - 10+00.00												
10+00.00 - 10+50.00			16.0	1.3								
10+50.00 - 11+00.00			73.7	6.1			102.5		1.0			
11+00.00 - 11+50.00		2.0	207.9	16.8			93.8		1.0			
11+50.00 - 12+00.00		1.0	295.2	21.6			47.7		1.0			
12+00.00 - 12+50.00		1.0	310.5	23.0	10.0		81.3					
12+50.00 - 13+00.00			441.1	33.5	10.0				2.0			
13+00.00 - 13+50.00			732.8	57.0	30.0							
13+50.00 - 14+00.00		1.0	1134.0	90.1	20.0		71.3					
14+00.00 - 14+50.00			1246.0	99.2	30.0		100.6					
14+50.00 - 15+00.00		1.0	1188.5	97.1			186.2		1.0			
15+00.00 - 15+50.00			974.2	80.5			136.6		2.0		293.0	293.0
15+50.00 - 16+00.00		1.0	333.9	27.6							362.5	362.5
16+00.00 - 16+50.00							95.3			8.0	255.0	263.0
16+50.00 - 17+00.00			340.1	28.1		3.6	100.0			20.9		20.9
17+00.00 - 17+50.00			514.4	39.6	10.0		119.3					
17+50.00 - 18+00.00			431.2	33.0			100.0					
18+00.00 - 18+50.00			426.2	33.0	10.0		100.0					
18+50.00 - 19+00.00			451.1	34.3			100.0					
19+00.00 - 19+50.00		1.0	454.7	35.7	20.0		107.0					
19+50.00 - 20+00.00		1.0	467.1	36.4	10.0		100.0			6.4		6.4
20+00.00 - 20+50.00			489.5	39.0	20.0		87.4					
20+50.00 - 21+00.00			398.6	31.5	10.0		100.0		1.00			
21+00.00 - 21+50.00			496.8	39.6	20.0		100.0					
21+50.00 - 22+00.00		1.0	497.8	39.6	10.0		100.0					
22+00.00 - 22+50.00			501.8	39.6	20.0		100.0					
22+50.00 - 23+00.00			503.8	39.6	20.0		100.0					
23+00.00 - 23+50.00			503.3	39.5	10.0		100.0					
23+50.00 - 24+00.00			499.8	39.5	10.0		100.0					
24+00.00 - 24+50.00		1.0	477.8	39.5	10.0		98.0					6.4
24+50.00 - 25+00.00			438.1	36.2			76.8					
25+00.00 - 25+50.00			375.2	31.0			100.0		1.00			
25+50.00 - 26+00.00			481.8	39.8	10.0		100.0					
26+00.00 - 26+50.00			493.9	40.8	10.0		100.0					
26+50.00 - 27+00.00			506.2	41.8	10.0		100.0					
27+00.00 - 27+50.00			518.0	42.8	10.0		100.0					
27+50.00 - 28+00.00		1.0	523.5	43.3	10.0		100.0					
28+00.00 - 28+50.00		1.0	530.4	43.8			5.0					
28+50.00 - 29+00.00		1.00	30.2	2.5								
COMP STORAGE AREA												
MAINTENANCE (RE DESCRETION)												
	200.0	4.0	100.0		40.0	0.70	185.0	2.0	2.0			
TOTAL	200.00	18.00	18405.10	1463.12	370.00	4.30	3806.80	4.00	10.00	41.70	910.58	952.28
ADJUSTED TOTAL	200.0	18.0	18406.0	1464.0	370.0	4.3	3807.0	4.0	10.0	42.0	911.0	953.0

LOCATION	25000210	25000312	25000314	25000400	25000600
	SEEDING, CLASS 2A	SEEDING, CLASS 4A	SEEDING, CLASS 4B	NITROGEN FERTILIZER NUTRIENT (SEE NOTE 1)	POTASSIUM FERTILIZER NUTRIENT (SEE NOTE 1)
	(ACRE)	(ACRE)	(ACRE)	(POUND)	(POUND)
MAINLINE					
7+00.00 - 7+50.00					
7+50.00 - 8+00.00					
8+00.00 - 8+50.00					
8+50.00 - 9+00.00					
9+00.00 - 9+50.00					
9+50.00 - 10+00.00	0.003				
10+00.00 - 10+50.00	0.015			0.30	0.30
10+50.00 - 11+00.00	0.043			1.37	1.37
11+00.00 - 11+50.00	0.061			3.86	3.86
11+50.00 - 12+00.00	0.064			5.49	5.49
12+00.00 - 12+50.00	0.091			5.77	5.77
12+50.00 - 13+00.00	0.053			8.20	8.20
13+00.00 - 13+50.00	0.072		0.099	4.73	4.73
13+50.00 - 14+00.00	0.085		0.162	6.52	6.52
14+00.00 - 14+50.00	0.120		0.172	7.69	7.69
14+50.00 - 15+00.00	0.160		0.126	10.77	10.77
15+00.00 - 15+50.00	0.055		0.041	14.42	14.42
15+50.00 - 16+00.00			0.014	4.98	4.98
16+00.00 - 16+50.00					
16+50.00 - 17+00.00		0.07			
17+00.00 - 17+50.00		0.11			
17+50.00 - 18+00.00		0.09			
18+00.00 - 18+50.00	0.044	0.09			
18+50.00 - 19+00.00	0.082	0.05		3.94	3.94
19+00.00 - 19+50.00	0.096	0.01		7.34	7.34
19+50.00 - 20+00.00	0.101			8.68	8.68
20+00.00 - 20+50.00	0.082			9.10	9.10
20+50.00 - 21+00.00	0.102			7.41	7.41
21+00.00 - 21+50.00	0.103			9.22	9.22
21+50.00 - 22+00.00	0.103			9.25	9.25
22+00.00 - 22+50.00	0.104			9.31	9.31
22+50.00 - 23+00.00	0.104			9.37	9.37
23+00.00 - 23+50.00	0.103			9.35	9.35
23+50.00 - 24+00.00	0.099			9.29	9.29
24+00.00 - 24+50.00	0.090			8.88	8.88
24+50.00 - 25+00.00	0.078			8.14	8.14
25+00.00 - 25+50.00	0.100			6.98	6.98
25+50.00 - 26+00.00	0.102			8.96	8.96
26+00.00 - 26+50.00	0.105			9.18	9.18
26+50.00 - 27+00.00	0.107			9.41	9.41
27+00.00 - 27+50.00	0.108			9.63	9.63
27+50.00 - 28+00.00	0.110			9.73	9.73
28+00.00 - 28+50.00	0.006			9.86	9.86
28+50.00 - 29+00.00				0.56	0.56
TOTAL	2.752	0.415	0.613	247.70	247.70
ADJUSTED TOTAL	2.75	0.50	0.75	248.0	248.0

NOTE 1: ONLY CLASS 2A SEED REQUIRES FERTILIZER NUTRIENTS

FILE NAME = W:\Projects\2013\130282_B115 P\11\Seed\C:\11\Drawings\Sched\EROSION CONTROL SCHEDULE_04.dgn



USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - SBP/NDP	REVISED -
	DATE - 8/8/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES		
SCALE:	SHEET NO. 4 OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	13
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

DRAINAGE SCHEDULE

LOCATION	20800150	54213663	54215436	5421C012	542A0223	550A0050	550A0160	59300100	60100060	60100945	60108100	60108204	60203905	60221000	60221100	60224446	60235300	60237470	60240328	60256940
	TRENCH BACKFILL (CU YD)	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18" (EACH)	CAST-IN-PLACE REINFORCED CONCRETE END SECTIONS 36" (EACH)	PIPE CULVERTS, CLASS C, TYPE 1 12" (TEMPORARY) (FOOT)	PIPE CULVERTS, CLASS A, TYPE 1 18" (FOOT)	STORM SEWERS, CLASS A, TY 1 12" (FOOT)	STORM SEWERS, CLASS A, TY 1 36" (FOOT)	CONTROLLED LOW-STRENGTH MATERIAL (CU YD)	CONCRETE HEADWALLS FOR PIPE DRAINS (EACH)	PIPE DRAINS 12" (FOOT)	PIPE UNDERDRAINS 4" (SPECIAL) (FOOT)	PIPE UNDERDRAINS, TYPE 2, 4" (FOOT)	CATCH BASINS, TYPE A, 5' DIA., TYPE 1 FRAME, CLOSED LID (EACH)	MANHOLES, TYPE A, 5' DIA., TYPE 1 FRAME, OPEN LID (EACH)	MANHOLES, TYPE A, 5' DIA., TYPE 1 FRAME, CLOSED LID (EACH)	MANHOLES, TYPE A, 7' DIA., TYPE 1 FRAME, OPEN LID (EACH)	INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID (EACH)	INLETS, TYPE A, TYPE 24 FRAME AND GRATE (EACH)	INLETS, TYPE B, TYPE 24 FRAME AND GRATE (EACH)	MANHOLES TO BE ADJUSTED WITH NEW TYPE 24 FRAME AND GRATE (EACH)
MAINLINE																				
7+00.00 - 7+50.00																				
7+50.00 - 8+00.00																				
8+00.00 - 8+50.00																				
8+50.00 - 9+00.00																				
9+00.00 - 9+50.00																				
9+50.00 - 10+00.00												9.0								
10+00.00 - 10+50.00	3.3											50.0								
10+50.00 - 11+00.00	16.1											50.0								
11+00.00 - 11+50.00	15.6											50.0								
11+50.00 - 12+00.00	15.3			26.0		52.0						50.0			1.0			1.0		
12+00.00 - 12+50.00	78.6			22.0								49.0								
12+50.00 - 13+00.00	10.1					7.0						46.0						1.0	1.0	1.0
13+00.00 - 13+50.00	6.4					57.0						49.0				1.0				
13+50.00 - 14+00.00	14.3											52.0								
14+00.00 - 14+50.00	44.6											49.0								
14+50.00 - 15+00.00	67.4											49.0			1.0					
15+00.00 - 15+50.00	23.0					64.0						49.0	1.0					1.0	1.0	1.0
15+50.00 - 16+00.00												28.0								
16+00.00 - 16+50.00																				
16+50.00 - 17+00.00			1.0																	
17+00.00 - 17+50.00												53.0								
17+50.00 - 18+00.00												50.0								
18+00.00 - 18+50.00												50.0								
18+50.00 - 19+00.00												50.0								
19+00.00 - 19+50.00												50.0								
19+50.00 - 20+00.00												92.0								
20+00.00 - 20+50.00		1.0										50.0								
20+50.00 - 21+00.00	4.4	1.0										50.0								
21+00.00 - 21+50.00												50.0								
21+50.00 - 22+00.00												50.0								
22+00.00 - 22+50.00												50.0								
22+50.00 - 23+00.00												50.0								
23+00.00 - 23+50.00	15.7											50.0								
23+50.00 - 24+00.00												50.0								
24+00.00 - 24+50.00												98.0								
24+50.00 - 25+00.00	2.2	1.0			16.0							100.0								
25+00.00 - 25+50.00	7.4	1.0			32.0							100.0								
25+50.00 - 26+00.00												100.0								
26+00.00 - 26+50.00												100.0								
26+50.00 - 27+00.00												100.0								
27+00.00 - 27+50.00												100.0								
27+50.00 - 28+00.00												100.0								
28+00.00 - 28+50.00												100.0								
28+50.00 - 29+00.00												60.0								
R.E. DISCRETION FOR FIELD TILE REPAIR										120.0							2.0			
TOTAL	324.3	4.0	1.0	48.0	84.0	180.0	282.1	74.1	7.0	120.0	47.0	2133.0	1.0	1.0	1.0	1.0	2.0	3.0	2.0	2.0
ADJUSTED TOTAL	325.0	4.0	1.0	48.0	84.0	180.0	283.0	75.0	7.0	120.0	47.0	2133.0	1.0	1.0	1.0	1.0	2.0	3.0	2.0	2.0

FILE NAME = W:\Projects\2013\130282_Bias_PhilVeed\G:\1\Drawings\Sched\SCHEDULE.DWG

WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - SBP/NDP	REVISED -
	DATE - 8/8/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO. 5 OF 12 SHEETS	STA. _____	TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	14
CONTRACT NO.61D20				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING AND GUARDRAIL SCHEDULE

LOCATION	63000001	63100087	63100167	72501000	78009000	78009004	78009006	78009008	78009012	78009024	78100105	78200005	X7810300	Z0049100
	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6A	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKER - DIRECT APPLIED	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	GUARDRAIL REFLECTORS, TYPE A	RECESSED REFLECTIVE PAVEMENT MARKER	RAISED PAVEMENT MARKER REFLECTOR REPLACEMENT
	(FOOT)	(EACH)	(EACH)	(EACH)	(SQ FT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)
MAINLINE														
7+00.00 - 7+50.00						105.0	20.0							1.0
7+50.00 - 8+00.00						223.0	4.0							2.0
8+00.00 - 8+50.00						200.0	13.0							2.0
8+50.00 - 9+00.00						200.0	13.0		12.0					5.0
9+00.00 - 9+50.00						200.0	19.0							3.0
9+50.00 - 10+00.00					36.4	200.0	50.0		16.0					3.0
10+00.00 - 10+50.00						140.0	35.0						4.0	2.0
10+50.00 - 11+00.00						208.0	15.0		16.0					
11+00.00 - 11+50.00					36.4	228.0	16.0			34.0			3.0	
11+50.00 - 12+00.00					36.4	115.0	48.0						3.0	
12+00.00 - 12+50.00						200.0	50.0						6.0	
12+50.00 - 13+00.00						200.0	50.0						6.0	
13+00.00 - 13+50.00					15.6	186.0	50.0	14.0		22.0			3.0	
13+50.00 - 14+00.00			1.0	1.0	93.6	376.0	68.0	100.0					2.0	
14+00.00 - 14+50.00	36.5					200.0	13.0	100.0			1.0		2.0	
14+50.00 - 15+00.00	50.0					200.0	13.0	100.0	8.0				2.0	
15+00.00 - 15+50.00	26.0		1.0	1.0		200.0	13.0	100.0	14.0			3.0	2.0	
15+50.00 - 16+00.00		2.0				200.0	8.0	100.0	18.0		2.0	1.0	2.0	
16+00.00 - 16+50.00						200.0		100.0			4.0	1.0		
16+50.00 - 17+00.00		2.0				200.0		100.0	18.0			1.0		
17+00.00 - 17+50.00	61.0					200.0		100.0	18.0			2.0	4.0	
17+50.00 - 18+00.00	100.0					200.0		100.0	18.0			1.0	2.0	
18+00.00 - 18+50.00	55.5					200.0		100.0	18.0		2.0		2.0	
18+50.00 - 19+00.00	8.5		1.0	1.0		200.0		100.0	18.0				4.0	
19+00.00 - 19+50.00			1.0	1.0		200.0		100.0					2.0	
19+50.00 - 20+00.00						200.0		100.0	18.0				2.0	
20+00.00 - 20+50.00						200.0		100.0	18.0				2.0	
20+50.00 - 21+00.00						200.0		100.0					4.0	
21+00.00 - 21+50.00						200.0	3.0	100.0	18.0				2.0	
21+50.00 - 22+00.00						200.0	13.0	100.0	13.0				2.0	
22+00.00 - 22+50.00						200.0	13.0	100.0					4.0	
22+50.00 - 23+00.00					20.8	200.0	13.0	100.0					3.0	
23+00.00 - 23+50.00					15.6	156.0	19.0	100.0					3.0	
23+50.00 - 24+00.00						148.0	50.0	52.0					4.0	
24+00.00 - 24+50.00						200.0	50.0						3.0	
24+50.00 - 25+00.00						200.0	50.0			17.0			2.0	
25+00.00 - 25+50.00						163.0	23.0						4.0	
25+50.00 - 26+00.00						197.0			18.0				2.0	
26+00.00 - 26+50.00						300.0							4.0	
26+50.00 - 27+00.00						300.0			14.0				2.0	
27+00.00 - 27+50.00						300.0			9.0				4.0	
27+50.00 - 28+00.00						300.0							4.0	
28+00.00 - 28+50.00						300.0							4.0	
28+50.00 - 29+00.00						260.0								
TOTAL	337.5	4.0	4.0	4.0	254.8	9205.0	732.0	2066.0	282.0	73.0	6.0	13.0	104.0	18.0
ADJUSTED TOTAL	337.5	4.0	4.0	4.0	255.0	9,205.0	732.0	2,066.0	282.0	73.0	6.0	13.0	104.0	18.0

FILE NAME = M:\P\Projects\2013\130282 B\Iss P\H\Lead\Cv1\1\Dgn\Sht\SCHEDULE.06.dgn

WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = bpottorff	DESIGNED - SBP	REVISED - 10/17/16
	DRAWN - NDP	REVISED -
PLOT SCALE = 1:1	CHECKED - SBP/NDP	REVISED -
PLOT DATE = 10/25/2016	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO. 6 OF 12 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	15
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

MAINTENANCE OF TRAFFIC SCHEDULE

LOCATION	44201717 CLASS D PATCHES, TYPE II, 6 INCH	44201721 CLASS D PATCHES, TYPE III, 6 INCH	44201745 CLASS D PATCHES, TYPE III, 8 INCH	44201747 CLASS D PATCHES, TYPE IV, 8 INCH	52200010 TEMPORARY SHEET PILING	70300220 TEMPORARY PAVEMENT MARKING - LINE 4"	70300280 TEMPORARY PAVEMENT MARKING - LINE 24"	70300520 PAVEMENT MARKING TAPE, TYPE III 4"	70400100 TEMPORARY CONCRETE BARRIER	70400200 RELOCATE TEMPORARY CONCRETE BARRIER	70600242 IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 2	70600342 IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 2	78200011 BARRIER WALL REFLECTORS, TYPE C	X0327979 PAVEMENT MARKING REMOVAL - GRINDING	X0327980 PAVEMENT MARKING REMOVAL - WATER BLASTING	X4400110 TEMPORARY PAVEMENT REMOVAL	X6330075 RELOCATE TRAFFIC BARRIER TERMINAL, (TEMPORARY)	X6331009 REMOVE AND REPLACE STEEL PLATE BEAM GUARDRAIL, SPECIAL	X6610200 HOT-MIX ASPHALT CURB REPAIR	X7040125 PINNING TEMPORARY CONCRETE BARRIER	XX003168 WORK ZONE PAVEMENT MARKING REMOVAL, SPECIAL	Z0062456 TEMPORARY PAVEMENT	
	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ FT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)	(SQ FT)	(SQ FT)	(SQ YD)	(EACH)	(FOOT)	(FOOT)	(EACH)	(FOOT)	(SQ YD)
MAINLINE																							
7+00.00 - 7+50.00								100.0							40.6							100.0	
7+50.00 - 8+00.00								100.0							91.0							100.0	
8+00.00 - 8+50.00								100.0							116.0							100.0	
8+50.00 - 9+00.00								100.0							91.0							100.0	
9+00.00 - 9+50.00								100.0							91.0							100.0	
9+50.00 - 10+00.00								100.0						29.7	91.0							100.0	
10+00.00 - 10+50.00						60.0		105.0					165.9	76.9								105.0	
10+50.00 - 11+00.00						413.9	12.0						199.3	29.1									
11+00.00 - 11+50.00						462.0			12.9				45.5			43.8						43.8	
11+50.00 - 12+00.00				25.8		119.0			50.0	8.0			33.0			67.1					12.0	67.1	
12+00.00 - 12+50.00						100.0			100.0	50.0		2.0	33.0			89.5					12.0	89.5	
12+50.00 - 13+00.00				24.9		100.0			100.0	50.0		4.0	93.0			85.7		16.0			12.0	85.7	
13+00.00 - 13+50.00					450.0	357.0	30.0		100.0	50.0		6.0	33.0			69.5					12.0	69.5	
13+50.00 - 14+00.00					450.0	210.0			100.0	50.0		6.0	50.9			69.5					12.0	69.5	
14+00.00 - 14+50.00					450.0	100.0			87.5	50.0		6.0	43.7			69.5					12.0	69.5	
14+50.00 - 15+00.00		15.3			450.0	100.0			50.0	50.0		6.0	66.0			34.2					12.0	34.2	
15+00.00 - 15+50.00			18.7		450.0	165.0			50.0	50.0		4.0	66.0								12.0		
15+50.00 - 16+00.00					180.0	200.0			50.0	50.0		4.0	66.0			15.2						15.2	
16+00.00 - 16+50.00						200.0			50.0	50.0		4.0	66.0										
16+50.00 - 17+00.00					265.2	200.0			50.0	87.0		4.0	66.0			11.9						11.9	
17+00.00 - 17+50.00					600.0	200.0			50.0	101.0		4.0	66.0			21.5					12.0	21.5	
17+50.00 - 18+00.00					600.0	200.0			50.0	101.0		6.0	66.0			24.7	1.0	50.0			12.0	24.7	
18+00.00 - 18+50.00						200.0			50.0	90.0		6.0	66.0			29.7		42.0			12.0	29.7	
18+50.00 - 19+00.00						200.0			50.0	51.0		6.0	66.0			35.7					12.0	35.7	
19+00.00 - 19+50.00						200.0			50.0	50.0		6.0	66.0			36.6					12.0	36.6	
19+50.00 - 20+00.00						200.0			50.0	50.0		4.0	66.0			32.0					12.0	32.0	
20+00.00 - 20+50.00						200.0			24.6	50.0	1.0	4.0	66.0			26.5						26.5	
20+50.00 - 21+00.00	9.1					200.0			16.0	50.0		4.0	66.0			21.3						21.3	
21+00.00 - 21+50.00						200.0			50.0	50.0		2.0	66.0			19.8					31.0	19.8	
21+50.00 - 22+00.00						200.0			50.0	50.0		4.0	104.0			20.7					24.0	20.7	
22+00.00 - 22+50.00						200.0			50.0	50.0		4.0	100.0			24.4					24.0	24.4	
22+50.00 - 23+00.00						200.0			50.0	50.0		4.0	100.0			29.0					24.0	29.0	
23+00.00 - 23+50.00				18.4		200.0			50.0	50.0		4.0	100.0			34.4					24.0	34.4	
23+50.00 - 24+00.00						200.0			50.0	50.0		4.0	100.0			38.7					24.0	38.7	
24+00.00 - 24+50.00						286.0			50.0	50.0		4.0	158.0			39.2					24.0	39.2	
24+50.00 - 25+00.00						321.0	8.0		50.0	12.0		4.0	234.0								24.0		
25+00.00 - 25+50.00						334.0			59.0			4.0	100.0										
25+50.00 - 26+00.00		16.0				200.0						4.0	100.0										
26+00.00 - 26+50.00						200.0							100.0										
26+50.00 - 27+00.00						200.0							100.0										
27+00.00 - 27+50.00						200.0							100.0										
27+50.00 - 28+00.00						200.0							100.0										
28+00.00 - 28+50.00						200.0							100.0										
28+50.00 - 29+00.00						200.0							100.0										
TOTAL	9.1	31.3	37.1	50.7	3895.2	7727.9	50.0	705.0	1600.0	1450.0	2.0	1.0	124.0	3147.1	626.6	990.2	1.0	179.0	16.0	367.0	705.0	990.2	
ADJUSTED TOTAL	10.0	32.0	38.0	51.0	3,896.0	7,728.0	50.0	705.0	1,600.0	1,450.0	2.0	1.0	124.0	3,148.0	627.0	991.0	1.0	179.0	16.0	367.0	705.0	991.0	

FILE NAME = W:\Projects\2013\1302202 B155 PH11\ceadd\civ1\1\3\sh1\Sched\SchedUL07.dgn

WBK engineering LLC
 316 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = bpottorff	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 10/25/2016	CHECKED - SBP/NDP	REVISED -
	DATE - 8/8/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE:	SHEET NO. 7 OF 12 SHEETS	STA. TO STA.
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F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 16
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

EARTHWORK SUMMARY

LOCATION	EARTHWORK					TOPSOIL				SUBGRADE IMPROVEMENT		
	20200100			20400800	20300100	21101505			X2111110	20201200	30300001	21001000
	EARTHWORK EXCAVATION	SHOULDER EMBANKMENT	BALANCE WASTE (+) OR SHORTAGE (-)	STRUCTURAL EMBANKMENT	CHANNEL EXCAVATION	TOPSOIL EXCAVATION & PLACEMENT	TOPSOIL EMBANKMENT (6" THICK)	BALANCE WASTE (+) OR SHORTAGE (-) (NO SHRINKAGE)	TOPSOIL PLACEMENT (4" THICK)	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)	(CU YD)	(CU YD)	(SQ YD)
STAGE 1A	1639.0	0.0	5065.0	1432.0	0.0	1287.0	1122.0	165.0		78.0	78.0	501.0
STAGE 1B	794.0	757.0	37.0	2136.0	60.0	760.0	528.0	232.0		69.0	69.0	466.0
STAGE 2	341.0	718.0	-377.0	1476.0	18.0	372.0	349.0	23.0				
STAGE 3									113.0			
COMP STORAGE AREA	3427.0											
R.E. DISCRETION										150.0	150.0	225.0
TOTAL	6201.0	1475.0	4725.0	5044.0	78.0	2419.0	1999.0	420.0	113.0	297.0	297.0	1192.0

EARTHWORK GENERAL NOTES

1. ALL EARTHWORK QUANTITIES ARE CALCULATED BY THE METHOD OF AVERAGE END AREAS USING THE PLAN CROSS SECTIONS.
2. 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.
3. RECOMMENDATIONS OUTLINED IN THE REPORTS OF SOIL EXPLORATION REPORT PREPARED BY TESTING SERVICE CORPORATION, DATED, MAY 13, 2015 WERE USED IN PREPARATION OF THE ROADWAY PLANS AND RELATED QUANTITY CALCULATIONS.
4. FOR THE PURPOSE OF ESTIMATING THE TOPSOIL STRIPPING QUANTITIES, THE TOPSOIL THICKNESS WAS ESTIMATED AT SIX (6) INCHES.
5. IF UNDERCUTS ARE ENCOUNTERED, UNDERCUTS WILL BE PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. AFTER TOPSOIL STRIPPING AND VEGETATION CLEARING AND PRIOR TO UNDERCUTTING, THE SUBGRADE WILL BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER IN ACCORDANCE WITH THE IDOT SUBGRADE STABILITY MANUAL TO DETERMINE REMEDIAL TREATMENT.
6. TESTING OF SUBGRADES AND EMBANKMENTS WILL BE REQUIRED. TESTING REQUIREMENTS WILL BE PER THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND THE SUBGRADE STABILITY MANUAL. IF PROOF ROLLS ARE REQUIRED BY THE ENGINEER, THE COST SHALL BE CONSIDERED INCLUDED IN THE COST OF EXCAVATION.
7. BASED ON THE GEOTECHNICAL REPORT, 247 CY OF AGGREGATE SUBGRADE IMPROVEMENT HAS BEEN PROVIDED FOR LOCATIONS WHERE SOILS TEND TO BE UNSTABLE WHEN WET. AN ADDITIONAL 150 CY HAVE BEEN INCLUDED TO BE USED AT THE RE'S DISCRETION. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT 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 ROLLED 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.
8. EARTH 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 RESREADING IN SHOULDERS AND CONSTRUCTING OF EMBANKMENTS.
9. TOPSOIL EXCAVATION WILL INCLUDE EXCAVATION OF THE TOPSOIL MATERIAL IN ITS ORIGINAL POSITION, TEMPORARY STOCK PILING FOR LATER USE, RE-HANDLING AND SPREADING OF THE FINAL TOPSOIL COURSE FOR THE THICKNESS SPECIFIED.

FILE NAME = M:\Projects\2013\1302202 B1.as Ph11\cond\Cvt1\Dgn\Sht\SCHEDULE.08.dgn

WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nporris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - SBP/NDP	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES	
SCALE:	SHEET NO. 8 OF 12 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	17
CONTRACT NO.61D20				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE – STAGE 1A

LOCATION	EARTHWORK					TOPSOIL			SUBGRADE IMPROVEMENT			
	20200100	SHOULDER	20400800	20400800	20300100	21101505	TOPSOIL	BALANCE	20201200	30300001	21001000	
	EARTHWORK EXCAVATION	EMBANKMENT	BALANCE WASTE (+) OR SHORTAGE (-)	STRUCTURAL EMBANKMENT	CHANNEL EXCAVATION	TOPSOIL EXCAVATION & PLACEMENT	EMBANKMENT	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)	(CU YD)	(SQ YD)	
STAGE 1A												
MAINLINE	1638.3	0.0	1638.3	1432.0	0.0	874.1	709.1	165.0	78.0	78.0	501.0	
CHANNEL												
COMP STORAGE	3426.7	0.0	3426.7	0.0	0.0	412.9	412.9	0.0				
R.E. DESCRIPTION												
TOTAL	5065.0	0.0	5065.0	1432.0	0.0	1287.0	1122.0	165.0	78.0	78.0	501.0	

LOCATION	END AREAS						TOPSOIL			EARTHWORK					SUBGRADE IMPROVEMENT				
	TOPSOIL STRIPPING (TSS)	TOPSOIL EMBANKMENT	EXCAVATION (CUT)	STRUCTURAL EMBANKMENT (FILL)	SHOULDER EMBANKMENT (FILL)	UNDERCUT	21101505	TOPSOIL	BALANCE	20200100	SHOULDER	BALANCE	20400800	20300100	20201200	30300001	21001000		
	(SQ FT)	(SQ FT)	(SQ FT)	(SQ FT)	(SQ FT)	(SQ FT)	TOPSOIL EXCAVATION & PLACEMENT	EMBANKMENT	WASTE (+) OR SHORTAGE (-) (NO SHRINKAGE)	EARTHWORK EXCAVATION	EMBANKMENT	WASTE (+) OR SHORTAGE (-)	EMBANKMENT	EXCAVATION	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)	(CU YD)	(SQ YD)		
MAINLINE																			
10+00.00																			
10+35.00																			
10+50.00																			
11+00.00																			
11+50.00	11.1	3.7	29.7				10.3	3.4	6.9	27.5		27.5							
11+75.29	13.2	5.3	25.0				11.4	4.2	7.2	25.6		25.6							
12+00.00	14.1	6.7	11.2	6.9			12.5	5.5	7.0	16.6		16.6	3.1						
12+50.00	15.2	3.3	4.4	27.8			27.1	9.2	17.9	14.4		14.4	32.1						
13+00.00	16.5	8.1	10.6	21.8			29.4	10.5	18.8	13.8		13.8	45.9						
13+36.78	14.1	8.4	12.4	52.4			20.8	11.2	9.6	15.6		15.6	50.5						
13+50.00	14.3	8.5	12.5	48.4			6.9	4.1	2.8	6.1		6.1	24.7						
14+00.00	11.0	8.1	4.1	48.6			23.4	15.3	8.1	15.3		15.3	89.8						
14+50.00	12.3	10.2		87.6			21.6	16.9	4.7	3.8		3.8	126.1						
14+86.00	11.0		3.0	179.1			15.6	6.8	8.8	2.0		2.0	177.8						
15+25.00							8.0		8.0	2.1		2.1	129.3						
15+70.00	0.2		2.9	0.0			0.2		0.2	2.5		2.5	0.0						
OMIT BRIDGE																			
16+80.00			3.3	0.0															
17+00.00			3.4	0.0					2.5										
17+50.00	14.4	15.1	4.0	64.7			13.4	14.0	-0.6	6.8		6.8	59.9						
18+00.00	14.3	13.7	2.8	59.7			26.6	26.7	-0.1	6.3		6.3	115.2						
18+50.00	13.8	12.5	2.6	48.0			26.0	24.3	1.8	5.0		5.0	99.8						
19+00.00	14.1	12.3	2.5	52.0			25.9	22.9	2.9	4.8		4.8	92.6						
19+50.00	13.2	11.5	2.2	34.6			25.2	22.0	3.3	4.4		4.4	80.1						
20+00.00	12.4	11.3	2.1	27.9			23.7	21.0	2.6	4.0		4.0	57.8						
20+50.00	16.4	15.9	28.7	10.8			26.7	25.1	1.6	28.5		28.5	35.8						
20+70.15	17.7	17.3	42.0	9.9			12.7	12.4	0.4	26.4		26.4	7.7						
21+00.00	19.3	18.9	51.8	8.0			20.5	20.0	0.4	51.9		51.9	9.9						
21+50.00	19.9	19.5	64.9	3.7			36.3	35.6	0.6	108.0		108.0	10.9						
22+00.00	18.8	18.4	69.8	1.2			35.8	35.1	0.7	124.7		124.7	4.6						
22+50.00	16.7	15.8	24.4	8.2			32.9	31.6	1.2	87.2		87.2	8.7						
23+00.00	16.5	15.0	13.4	21.5			30.8	28.5	2.3	35.0		35.0	27.5						
23+50.00	18.7	16.7	25.5	11.9			32.6	29.4	3.2	36.1		36.1	31.0						
24+00.00	20.2	17.8	35.2	10.9			36.0	32.0	4.0	56.3		56.3	21.2						
24+50.00	20.7	15.6	52.9	6.0		6.4	37.9	30.9	7.0	81.6		81.6	15.7	5.9	5.9		70.9		
25+08.00			2.2	7.4		6.0	22.3	16.8	5.5	59.1		59.1	14.4	13.2	13.2		79.5		
25+50.00	21.1	17.4	67.4	6.3		5.9	16.4	13.6	2.8	54.1		54.1	10.6	9.2	9.2		55.1		
26+00.00	21.5	17.2	69.8	3.9		5.4	39.4	32.0	7.4	127.1		127.1	9.5	10.4	10.4		62.3		
26+50.00	21.4	18.4	83.0	2.7		4.7	39.7	32.9	6.8	141.5		141.5	6.1	9.3	9.3		55.8		
27+00.00	20.3	18.4	86.6	2.9		4.1	38.6	34.1	4.5	157.0		157.0	5.2	8.1	8.1		48.5		
27+50.00	17.8	16.6	67.6	2.5		3.5	35.2	32.4	2.8	142.8		142.8	5.0	7.0	7.0		42.2		
28+00.00	14.7	13.4	35.7	5.3		3.4	30.1	27.7	2.3	95.7		95.7	7.3	6.5	6.5		38.8		
28+50.00	4.5	4.4	7.2	5.7		2.5	17.7	16.5	1.2	39.8		39.8	10.2	5.5	5.5		33.0		
29+00.00							4.1	4.1	0.0	6.7		6.7	5.2	2.3	2.3		13.9		
COMP STORAGE							412.9	412.9		3426.7		3426.7							
SHRINKAGE FACTOR	15%																		
							TOTAL	1286.1	1121.6	164.6	5064.8	5064.8	1431.1	77.4	77.4	500.1			
							ADJ. TOTAL	1287.0	1122.0	165.0	5065.0	5065.0	1432.0	78.0	78.0	501.0			

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WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nporris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - SBP/NDP	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: SHEET NO. 9 OF 12 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 18
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE – STAGE 1B

LOCATION	EARTHWORK					TOPSOIL			SUBGRADE IMPROVEMENT		
	20200100	20400800	20400800	20300100	21101505	20200100	20400800	20300100	20201200	30300001	21001000
	EARTHWORK EXCAVATION	SHOULDER EMBANKMENT	BALANCE WASTE (+) OR SHORTAGE (-)	STRUCTURAL EMBANKMENT	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)	(CU YD)	(SQ YD)
STAGE 1B											
MAINLINE	794.0	757.0	37.0	2136.0		760.0	528.0	232.0	69.0	69.0	466.0
CHANNEL					60.0						
R.E. DESCRETION									75.0	75.0	113.0
TOTAL	794.0	757.0	37.0	2136.0	60.0	760.0	528.0	232.0	144.0	144.0	579.0

LOCATION	END AREAS						TOPSOIL			EARTHWORK					SUBGRADE IMPROVEMENT			
	TOPSOIL STRIPPING (TSS)	TOPSOIL EMBANKMENT	EXCAVATION (CUT)	STRUCTURAL EMBANKMENT (FILL)	SHOULDER EMBANKMENT (FILL)	UNDERCUT	21101505 TOPSOIL EXCAVATION & PLACEMENT	21101505 TOPSOIL EMBANKMENT	21101505 BALANCE WASTE (+) OR SHORTAGE (-) (NO SHRINKAGE)	20200100 EARTHWORK EXCAVATION	20400800 SHOULDER EMBANKMENT	20400800 BALANCE WASTE (+) OR SHORTAGE (-)	20400800 STRUCTURAL EMBANKMENT	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)	(SQ FT)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(SQ YD)	
MAINLINE																		
10+00.00																		
10+35.00																		
10+50.00																		
11+00.00																		
11+50.00	1.2		3.7	0.8			1.1	1.1	3.5			3.5	0.7					
11+75.29	2.4		9.2				1.7	1.7	6.0			6.0	0.4					
12+00.00	3.2		4.0	13.5			2.6	2.6	6.0			6.0	6.2					
12+50.00	3.6		4.6	22.6			6.3	6.3	7.9			7.9	33.4					
13+00.00	5.0			41.7			7.9	7.9	4.3			4.3	59.5					
13+36.78	5.7			52.6			7.3	7.3					64.2					
13+50.00	5.8			56.7			2.8	2.8					26.8					
14+00.00	6.2			78.2			11.1	11.1					124.9					
14+50.00	6.3			89.1			11.6	11.6					154.9					
14+86.00			1.8	73.5			4.2	4.2	1.2			1.2	108.4					
15+25.00	19.4	9.6		137.9	40.7		14.0	7.0	7.0	1.3	29.4	-28.1	152.7					
15+70.00	16.0	8.8	1.6	107.7	48.2		29.5	15.4	14.1		74.1	-72.7	204.6					
OMIT BRIDGE																		
16+80.00	17.0	16.0	19.5	106.3	62.4													
17+00.00	20.1	17.5	20.0	130.4	62.4		13.7	12.4	1.3	14.6	46.2	-31.6	87.7					
17+50.00	21.8	17.0	11.0	95.7	61.3		38.7	31.9	6.8	28.7	114.5	-85.8	209.3					
18+00.00	21.7	15.1	5.7	77.0	54.5		40.2	29.7	10.5	15.5	107.3	-91.8	159.9					
18+50.00	19.9	13.5	3.1	58.4	46.9		38.5	26.4	8.1	9.9	93.9	-85.7	125.4					
19+00.00	19.6	15.8	5.9	24.4	43.6		36.5	27.1	9.5	8.3	83.7	-75.4	76.7					
19+50.00	17.4	13.7	9.8	17.9	23.5		34.2	27.2	7.0	14.6	62.1	-47.5	39.2					
20+00.00	16.4	12.7	9.3	14.3	17.0		31.4	24.4	7.0	17.7	37.5	-19.8	29.8					
20+50.00	17.0	14.7	33.4	15.5			30.9	25.3	5.6	39.6	15.7	23.8	27.6					
20+70.15				57.6			6.3	5.5	0.9	12.5		12.5	27.3					
21+00.00	20.9	15.3	54.1	5.1			11.5	8.4	3.1	29.9		29.9	34.7					
21+50.00	21.0	16.3	66.0	4.6			38.7	29.2	9.6	111.2		111.2	9.0					
22+00.00	21.6	17.0	73.3	5.1			39.4	30.8	8.6	129.1		129.1	9.0					
22+50.00	21.0	17.1	61.4	10.2			39.4	31.6	7.9	124.8		124.8	14.1					
23+00.00	16.2	12.6	7.0	17.4	20.6		34.5	27.5	7.0	63.3	19.0	44.3	25.5					
23+50.00	14.6	11.3	2.4	15.7	29.3		28.6	22.1	6.4	8.7	46.2	-37.5	30.6					
24+00.00	15.2	12.2	7.8	26.7			27.7	21.8	5.9	9.4	27.1	-17.7	39.2					
24+50.00	10.8	8.0	8.3	18.7		4.6	24.1	18.7	5.4	14.9		14.9	42.0	4.2	4.2		56.0	
25+08.00	10.8	7.6	7.5	16.9		4.7	23.2	16.7	6.5	16.9		16.9	38.2	9.9	9.9		66.2	
25+50.00	11.0	7.4	7.7	17.0		5.0	17.0	11.7	5.3	11.8		11.8	28.4	7.5	7.5		49.6	
26+00.00	10.7	7.2	7.8	16.6		4.8	20.1	13.5	6.5	14.3		14.3	31.2	9.1	9.1		58.9	
26+50.00	10.0	7.1	7.1	14.9		4.3	19.1	13.3	5.8	13.8		13.8	29.1	8.4	8.4		54.8	
27+00.00	9.2	6.9	6.4	11.9		4.0	17.8	12.9	4.9	12.5		12.5	24.8	7.7	7.7		48.7	
27+50.00	8.7	6.3	6.6	12.7		3.8	16.6	12.2	4.4	12.0		12.0	22.8	7.2	7.2		43.9	
28+00.00	7.8	5.9	6.8	10.3		3.6	15.2	11.3	3.9	12.4		12.4	21.3	6.8	6.8		41.3	
28+50.00	4.8	4.5	5.8	4.9		2.4	11.6	9.6	2.0	11.7		11.7	14.0	5.5	5.5		33.2	
29+00.00							4.4	4.1	0.3	5.4		5.4	4.5	2.2	2.2		13.1	
CHANNEL																		
100+79.89																		
101+00.00			38.3															
101+10.33			17.0															
101+19.92			29.9															
101+49.92			8.5															
101+79.92																		
102+00.00																		
102+24.96																		
SHRINKAGE FACTOR	15%						TOTAL	759.2	527.6	231.7	793.1	756.6	36.5	2135.7	59.2	68.5	68.5	465.6
							ADJ. TOTAL	760.0	528.0	232.0	794.0	757.0	37.0	2136.0	60.0	69.0	69.0	466.0

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WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nparris
 DESIGNED - SBP
 DRAWN - NDP
 CHECKED - SBP/NDP
 DATE - 8/8/16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: SHEET NO. 10 OF 12 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 19
CONTRACT NO. 61D20				ILLINOIS FED. AID PROJECT

EARTHWORK SCHEDULE – STAGE 2

LOCATION	EARTHWORK					TOPSOIL			SUBGRADE IMPROVEMENT		
	20200100			20400800	20300100	21101505			20201200	30300001	21001000
	EARTHWORK EXCAVATION	SHOULDER EMBANKMENT	BALANCE WASTE (+) OR SHORTAGE (-)	STRUCTURAL EMBANKMENT	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)	(CU YD)	(SQ YD)
STAGE 2											
MAINLINE	341.0	718.0	-377.0	1476.0		372.0	349.0	23.0	0.0	0.0	0.0
CHANNEL					18.0						
R.E. DESCRETION									75.0	75.0	112.0
TOTAL	341.0	718.0	-377.0	1476.0	18.0	372.0	349.0	23.0	75.0	75.0	112.0

LOCATION	END AREAS						TOPSOIL			EARTHWORK					SUBGRADE IMPROVEMENT		
	TOPSOIL STRIPPING (TSS)	TOPSOIL EMBANKMENT	EXCAVATION (CUT)	STRUCTURAL EMBANKMENT (FILL)	SHOULDER EMBANKMENT (FILL)	UNDERCUT	21101505 TOPSOIL EXCAVATION & PLACEMENT	TOPSOIL EMBANKMENT	BALANCE WASTE (+) OR SHORTAGE (-) (NO SHRINKAGE)	20200100 EARTHWORK EXCAVATION	SHOULDER EMBANKMENT	BALANCE WASTE (+) OR SHORTAGE (-)	20400800 STRUCTURAL EMBANKMENT	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)	(SQ FT)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(SQ YD)
MAINLINE																	
10+00.00																	
10+35.00	0.2		1.5				0.2	0.2	1.0		0.8						
10+50.00	1.3	1.0	2.3	0.2			0.4	0.3	1.1		1.1	0.0					
11+00.00	3.4	1.8	9.1				4.3	2.6	10.6		10.6	0.2					
11+50.00	10.3	14.9	16.1	2.5	10.7		12.7	15.5	-2.8		9.9	23.3	2.3				
11+75.29	16.3	13.6	21.9	6.1	14.4		12.5	13.4	-0.9		17.8	11.8	6.0	4.0			
12+00.00	8.2	13.5	14.3	22.5	7.0		11.2	12.4	-1.2		16.6	9.8	6.8	13.1			
12+50.00	4.4	14.1	16.7	21.5	5.9		11.6	25.6	-14.0		28.8	11.9	16.9	40.8			
13+00.00	19.8	26.5	32.6	32.8	34.4		22.4	37.6	-15.2		45.6	37.3	8.3	50.4			
13+36.78	4.4	14.8		157.9	64.9		16.5	28.1	-11.6		22.2	67.7	-45.5	129.9			
13+50.00	5.5	17.5		144.6	73.0		2.4	7.9	-5.5			33.8	-33.8	74.0			
14+00.00	16.5	18.1		71.4	53.3		20.4	33.0	-12.6			117.0	-117.0	200.0			
14+50.00	20.7	22.8	25.1	90.8	48.5		34.5	37.9	-3.5	23.3		94.3	-71.0	150.2			
14+86.00	12.8	7.1		84.2	23.3		22.3	20.0	2.4	16.7		47.9	-31.1	116.7			
15+25.00	20.8	15.5		114.5	88.9		24.2	16.3	7.9			81.0	-81.0	143.5			
15+70.00	13.9	10.0		101.5	56.2		28.9	21.2	7.8			120.9	-120.9	179.9			
OMIT BRIDGE																	
16+80.00	11.6	9.2	1.4	69.4	49.8												
17+00.00	11.7	9.4	1.1	80.1	43.0		8.6	6.9	1.7	0.9		34.4	-33.4	55.4			
17+50.00	8.0	4.6		40.9			18.2	12.9	5.3	1.1	39.8		-38.8	112.0			
18+00.00	6.4	3.0	0.7	22.9			13.3	7.0	6.3	0.6			0.6	59.0			
18+50.00	5.4	1.9	6.9	8.6			10.9	4.5	6.4	7.0			7.0	29.1			
19+00.00	5.5	1.4	12.0	4.5			10.1	3.1	7.0	17.6			17.6	12.1			
19+50.00	3.6	1.6	7.7	3.7			8.4	2.8	5.6	18.3			18.3	7.6			
20+00.00	3.3	1.2	8.9	2.9			6.4	2.6	3.8	15.4			15.4	6.1			
20+50.00	3.7	1.6	6.9	1.6			6.5	2.6	4.0	14.6			14.6	4.2			
20+70.15	4.0	1.9	5.9	3.1			2.9	1.3	1.6	4.8			4.8	1.7			
21+00.00	4.0	1.8	6.0	2.8			4.4	2.0	2.4	6.5			6.5	3.2			
21+50.00	3.8	1.7	6.8	1.8			7.2	3.3	3.9	11.8			11.8	4.2			
22+00.00	3.9	1.7	6.8	2.0			7.1	3.2	3.9	12.5			12.5	3.5			
22+50.00	4.5	2.4	4.5	5.6			7.8	3.8	4.0	10.4			10.4	7.0			
23+00.00	5.4	3.3	1.6	10.8			9.2	5.3	3.9	5.6			5.6	15.1			
23+50.00	5.9	3.7	0.7	13.0			10.4	6.5	3.9	2.1			2.1	22.0			
24+00.00	5.2	3.1	2.2	8.6			10.3	6.3	4.0	2.7			2.7	20.0			
24+50.00							4.9	2.9	2.0	2.1			2.1	8.0			
25+08.00																	
25+50.00																	
26+00.00																	
26+50.00																	
27+00.00																	
27+50.00																	
28+00.00																	
28+50.00																	
29+00.00																	
CHANNEL																	
100+79.89																	
101+00.00																	
101+10.33																	
101+19.92																	4.7
101+49.92			8.5														8.9
101+79.92			7.5														3.4
102+00.00			1.7														0.8
102+24.96																	
SHRINKAGE FACTOR			15%														
TOTAL							371.2	348.5	22.6	340.8	717.3	-376.7	1475.1	17.8			
ADJ. TOTAL							372.0	349.0	23.0	341.0	718.0	-377.0	1476.0	18.0			

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WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - SBP/NDP	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO. 11 OF 12 SHEETS	STA.	TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 20
CONTRACT NO. 61D20			ILLINOIS FED. AID PROJECT	

EARTHWORK SCHEDULE – STAGE 3

LOCATION	TOPSOIL			
	21101505			X2111110
	TOPSOIL EXCAVATION & PLACEMENT	TOPSOIL EMBANKMENT	BALANCE WASTE (+) OR SHORTAGE (-) (NO SHRINKAGE)	TOPSOIL PLACEMENT (4" THICK)
	(CU YD)	(CU YD)	(CU YD)	(CU YD)
STAGE 3 MAINLINE				113.0
R.E. DESCRETION				
TOTAL				113.0

LOCATION	END AREAS			TOPSOIL			
	TOPSOIL STRIPPING (TSS)	TOPSOIL EMBANKMENT	TOPSOIL PLACEMENT	21101505			X2111110
				TOPSOIL EXCAVATION & PLACEMENT	TOPSOIL EMBANKMENT	BALANCE WASTE (+) OR SHORTAGE (-) (NO SHRINKAGE)	TOPSOIL PLACEMENT
	(SQ FT)	(SQ FT)	(SQ FT)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
MAINLINE							
10+00.00							
10+35.00							
10+50.00							
11+00.00							
11+50.00							
11+75.29							
12+00.00							
12+50.00							
13+00.00							
13+36.78							
13+50.00							
14+00.00							
14+50.00							
14+86.00							
15+25.00							
15+70.00							
OMIT BRIDGE							
16+80.00			2.6				1.9
17+00.00			2.6				4.8
17+50.00			2.6				4.8
18+00.00			2.6				4.8
18+50.00			2.6				4.8
19+00.00			2.6				4.8
19+50.00			2.6				4.8
20+00.00			2.6				4.8
20+50.00			2.6				4.8
20+70.15			2.6				1.9
21+00.00			2.6				2.9
21+50.00			2.6				4.8
22+00.00			2.6				4.8
22+50.00			2.6				4.8
23+00.00			2.6				4.8
23+50.00			2.6				4.8
24+00.00			2.6				4.8
24+50.00			2.6				4.8
25+08.00			2.6				5.6
25+50.00			2.6				4.0
26+00.00			2.6				4.8
26+50.00			2.6				4.8
27+00.00			2.6				4.8
27+50.00			2.6				4.8
28+00.00			2.6				4.8
28+50.00			2.6				4.8
29+00.00							
SHRINKAGE FACTOR							112.6
							113.0

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WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
	DRAWN - NDP	REVISED -
PLOT SCALE = 1:1	CHECKED - SBP/NDP	REVISED -
PLOT DATE = 10/24/2016	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

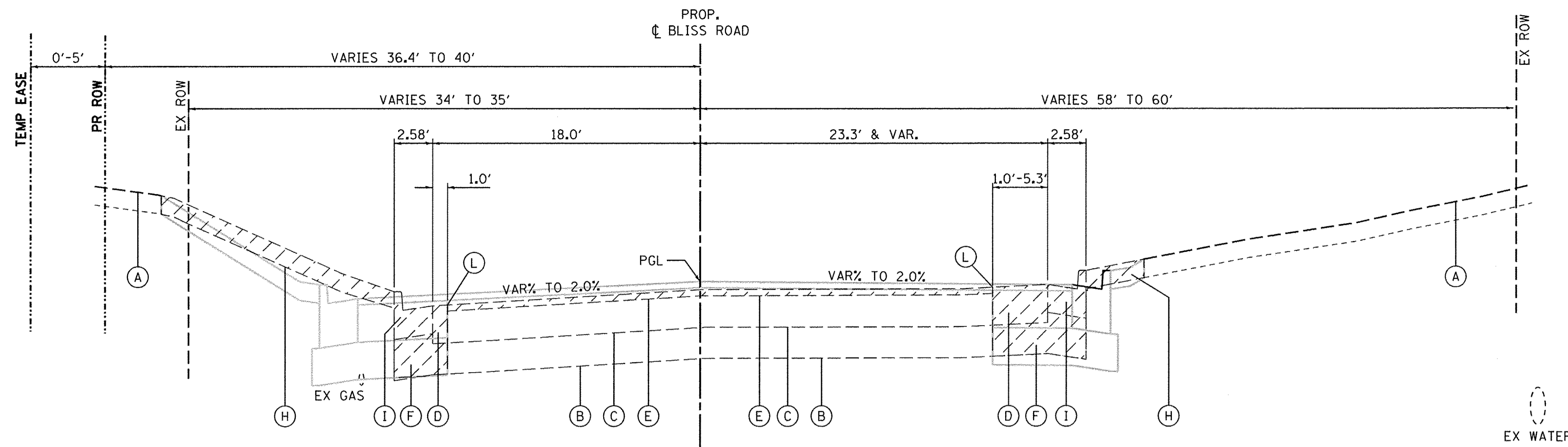
SCHEDULE OF QUANTITIES

SCALE: SHEET NO. 12 OF 12 SHEETS STA. TO STA.

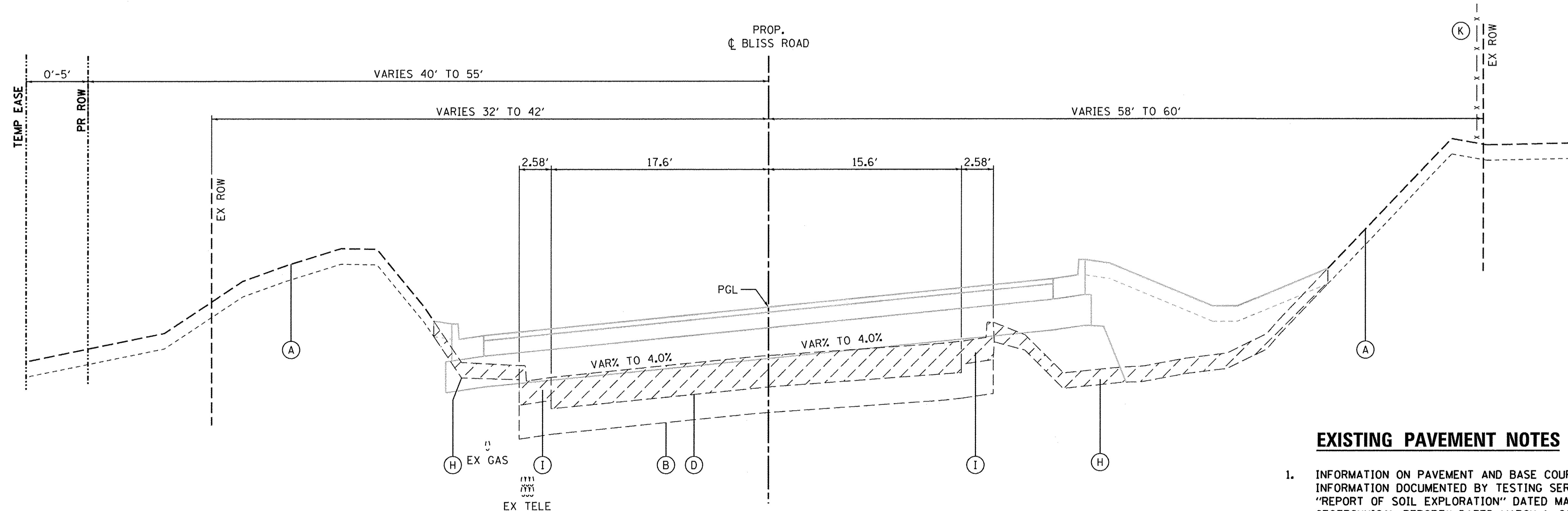
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	21
CONTRACT NO. 61D20			ILLINOIS FED. AID PROJECT	

LEGEND, EXISTING

- (A) EXISTING GROUND
- (B) EXISTING AGGREGATE BASE - TO BE REMAIN
6"-12" CRUSHED SUB-BASE MATERIAL
- (C) EXISTING HOT-MIX ASPHALT PAVEMENT - TO REMAIN
12"-15" VARYING LAYERS OF BITUMINOUS PAVEMENTS
- (D) EXISTING HOT-MIX ASPHALT PAVEMENT, TO BE REMOVED (44000100)
- (E) EXISTING HOT-MIX ASPHALT PAVEMENT, 2" OR 2 1/2" SURFACE MILLING
(SEE REMOVAL PLAN)
- (F) EXISTING AGGREGATE BASE - TO BE REMOVED (INCLUDED IN EARTH EX. - 20200100)
- (G) EXISTING AGGREGATE SHOULDER - TO BE REMOVED (INCLUDED IN EARTH EX. - 20200100)
- (H) EXISTING TOPSOIL - TO BE REMOVED (TOPSOIL EXCAVATION AND PLACEMENT - 21101505)
- (I) EXISTING B6.24 CONCRETE COMB. CURB AND GUTTER - TO BE REMOVED (44000500)
- (J) EXISTING GUARDRAIL - TO BE REMOVED (63200310)
- (K) EXISTING CHAIN LINK FENCE - TO REMAIN
- (L) SAWCUT, FULL DEPTH (INCLUDED IN ITEM BEING REMOVED)



EXISTING TYPICAL SECTION NO. 1
STA. 10+35.0 TO STA. 12+00.0, BLISS ROAD



EXISTING TYPICAL SECTION NO. 2
STA. 12+00.0 TO STA. 15+77.7, BLISS ROAD

EXISTING BRIDGE OMISSION
STA. 15+77.7 TO STA. 16+70.1, BLISS ROAD

EXISTING PAVEMENT NOTES

1. INFORMATION ON PAVEMENT AND BASE COURSE THICKNESS WAS TAKEN FROM INFORMATION DOCUMENTED BY TESTING SERVICE CORPORATION IN THE "REPORT OF SOIL EXPLORATION" DATED MAY 13, 2015 AND THE "STRUCTURAL GEOTECHNICAL REPORT" DATED MARCH 1, 2012. SEE ADDITIONAL NOTE BELOW.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE THICKNESS OF THE EXISTING PAVEMENTS TO BE REMOVED AND THE EXTENT TO WHICH THEY MAY BE REINFORCED (IF APPLICABLE). 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 (IF APPLICABLE).

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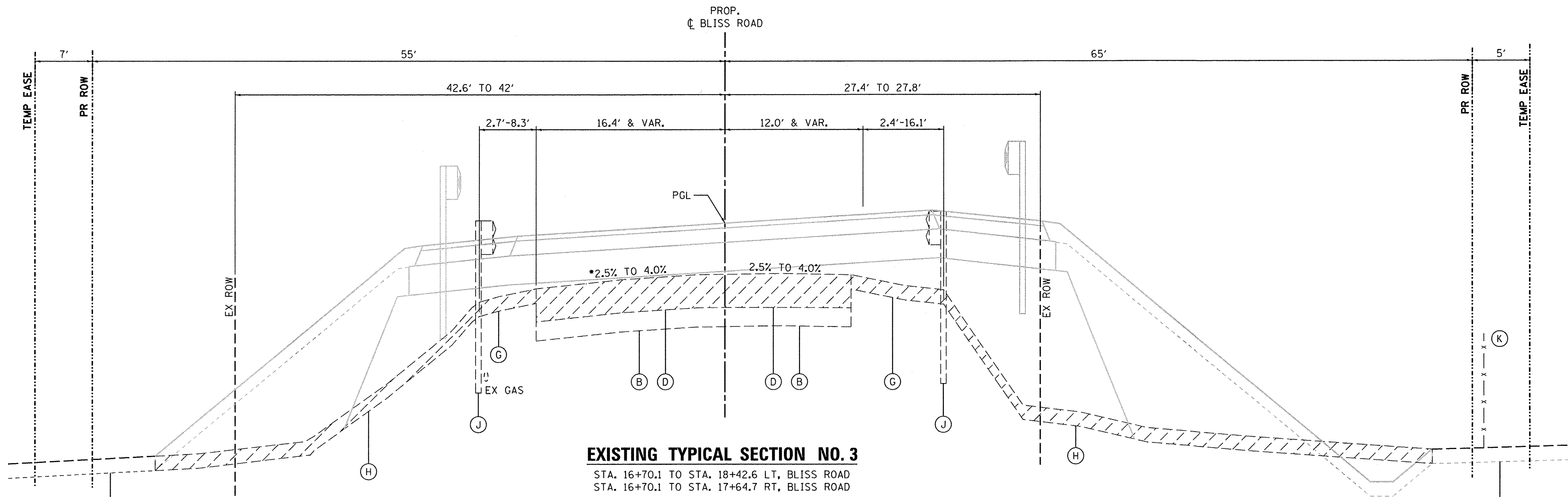
WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:5	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

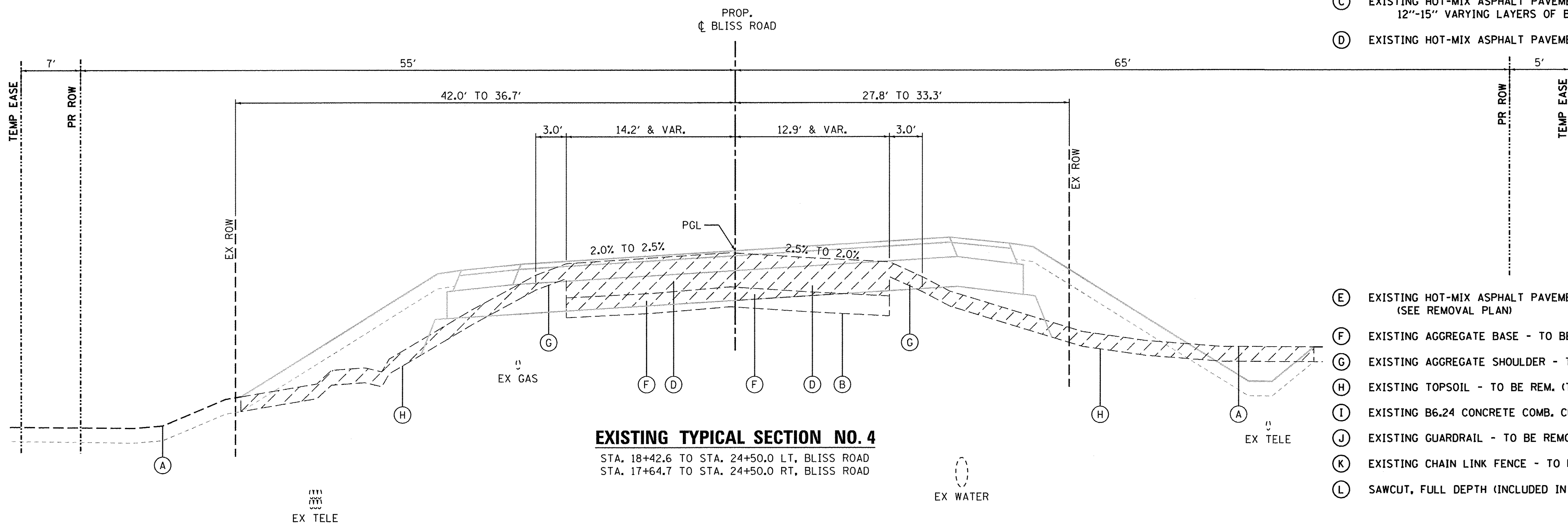
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS	
SCALE:	SHEET NO. 1 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 22
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				



- LEGEND, EXISTING**
- (A) EXISTING GROUND
 - (B) EXISTING AGGREGATE BASE - TO BE REMAIN
6"-12" CRUSHED SUB-BASE MATERIAL
 - (C) EXISTING HOT-MIX ASPHALT PAVEMENT - TO REMAIN
12"-15" VARYING LAYERS OF BITUMINOUS PAVEMENTS
 - (D) EXISTING HOT-MIX ASPHALT PAVEMENT, TO BE REMOVED (44000100)



- (E) EXISTING HOT-MIX ASPHALT PAVEMENT, 2" OR 2 1/2" SURFACE MILLING
(SEE REMOVAL PLAN)
- (F) EXISTING AGGREGATE BASE - TO BE REMOVED (INCLUDED IN EARTH EX. - 20200100)
- (G) EXISTING AGGREGATE SHOULDER - TO BE REM. (INCLUDED IN EARTH EX. - 20200100)
- (H) EXISTING TOPSOIL - TO BE REM. (TOPSOIL EXCAVATION AND PLACEMENT - 21101505)
- (I) EXISTING B6.24 CONCRETE COMB. CURB AND GUTTER - TO BE REMOVED (44000500)
- (J) EXISTING GUARDRAIL - TO BE REMOVED (63200310)
- (K) EXISTING CHAIN LINK FENCE - TO REMAIN
- (L) SAWCUT, FULL DEPTH (INCLUDED IN ITEM BEING REMOVED)

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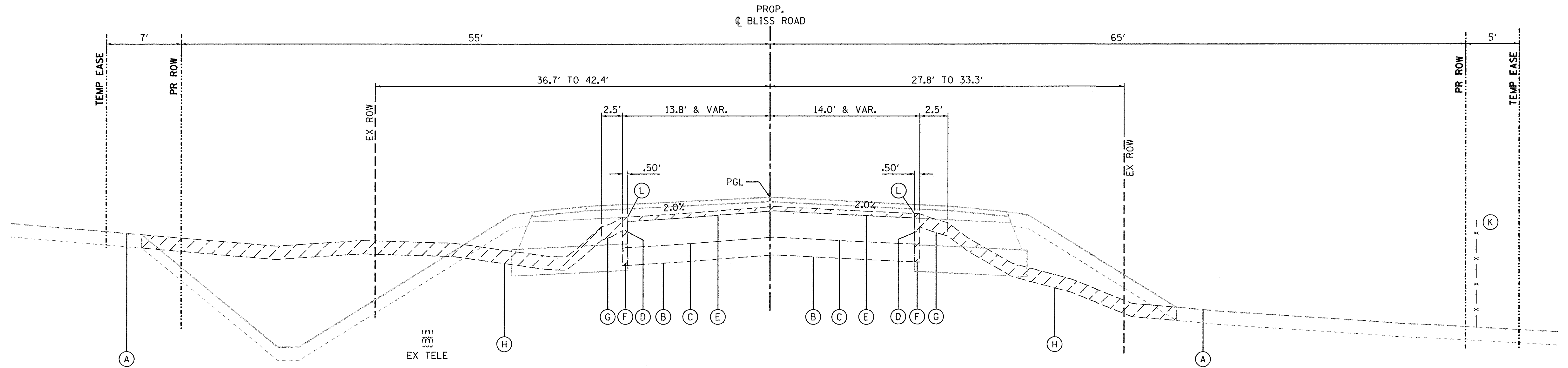
WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:5	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS	
SCALE:	SHEET NO. 2 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 23
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION NO. 5
 STA. 24+50.0 TO STA. 28+50.0, BLISS ROAD



LEGEND, EXISTING

- (A) EXISTING GROUND
- (B) EXISTING AGGREGATE BASE - TO BE REMAIN
6"-12" CRUSHED SUB-BASE MATERIAL
- (C) EXISTING HOT-MIX ASPHALT PAVEMENT - TO REMAIN
12"-15" VARYING LAYERS OF BITUMINOUS PAVEMENTS
- (D) EXISTING HOT-MIX ASPHALT PAVEMENT, TO BE REMOVED (44000100)
- (E) EXISTING HOT-MIX ASPHALT PAVEMENT, 2" OR 2 1/2" SURFACE MILLING
(SEE REMOVAL PLAN)
- (F) EXISTING AGGREGATE BASE - TO BE REMOVED (INCLUDED IN EARTH EX. - 20200100)
- (G) EXISTING AGGREGATE SHOULDER - TO BE REMOVED (INCLUDED IN EARTH EX. - 20200100)
- (H) EXISTING TOPSOIL - TO BE REMOVED (TOPSOIL EXCAVATION AND PLACEMENT - 21101505)
- (I) EXISTING B6.24 CONCRETE COMB. CURB AND GUTTER - TO BE REMOVED (44000500)
- (J) EXISTING GUARDRAIL - TO BE REMOVED (63200310)
- (K) EXISTING CHAIN LINK FENCE - TO REMAIN
- (L) SAWCUT, FULL DEPTH (INCLUDED IN ITEM BEING REMOVED)

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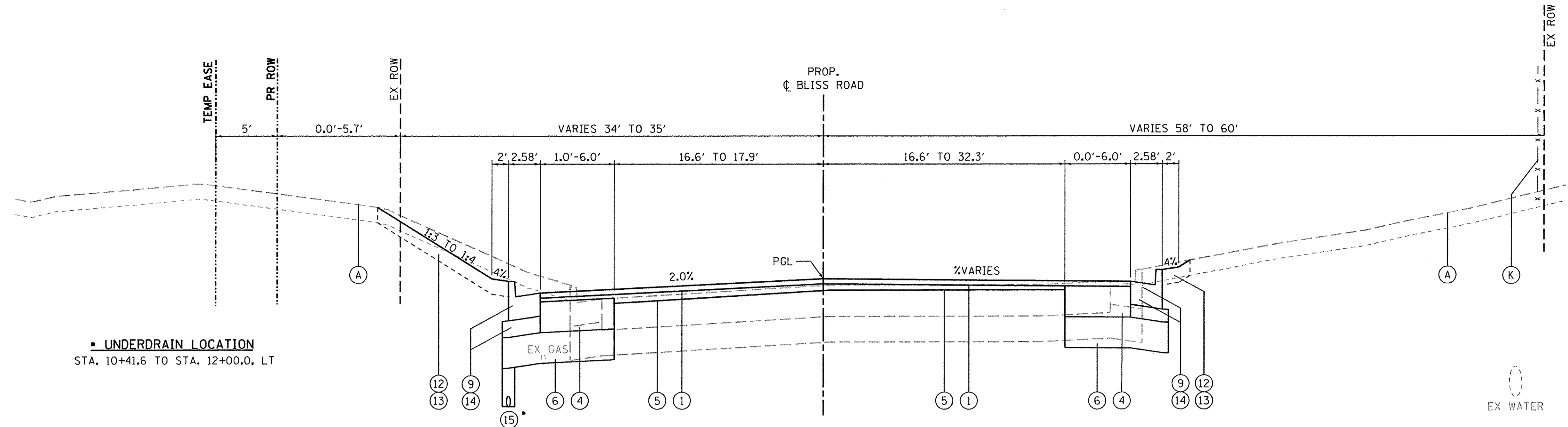
WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:5	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS	
SCALE:	SHEET NO. 3 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 24
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				



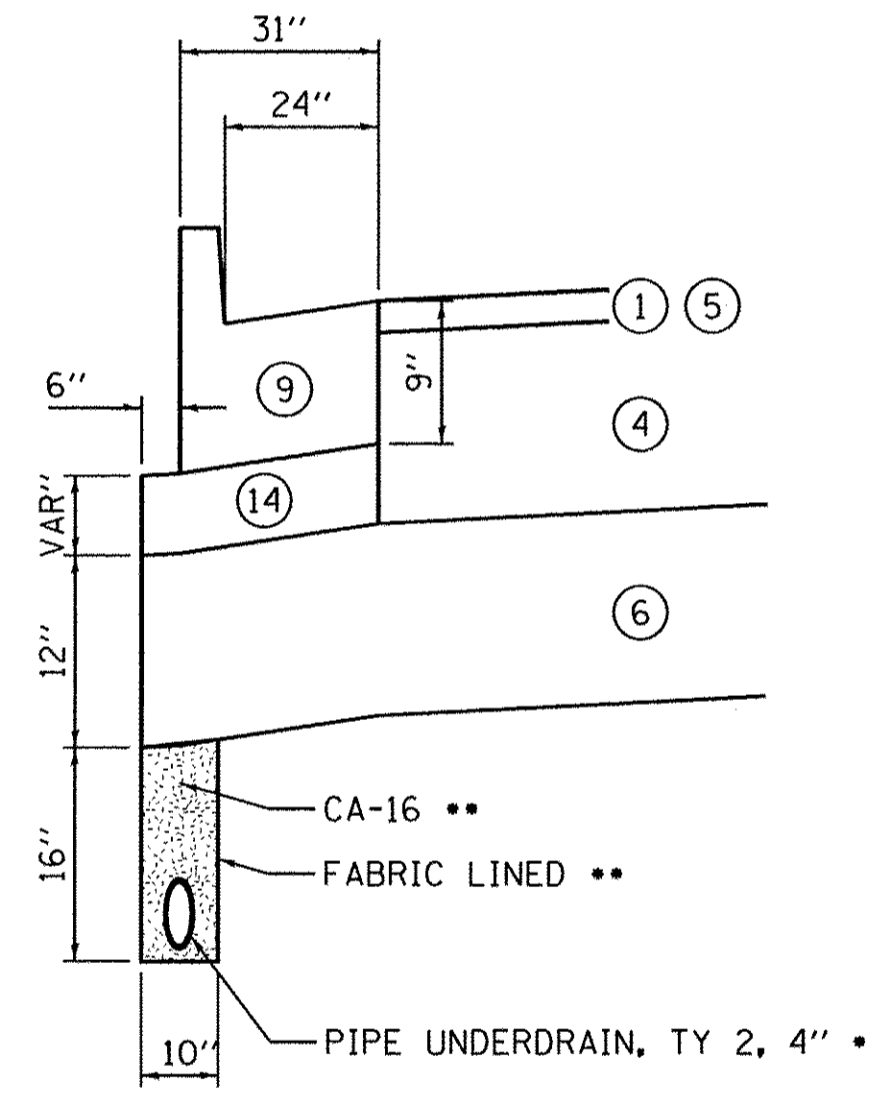
• UNDERDRAIN LOCATION
STA. 10+41.6 TO STA. 12+00.0, LT

PROPOSED TYPICAL SECTION NO. 1
STA. 10+35.0 TO STA. 12+00.0, BLISS ROAD

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

ITEM	AIR VOIDS @ Ndes
BLISS ROAD - SURFACE COURSE	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 2"	4% @ 70 GYR.
BLISS ROAD - BINDER COURSE	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 6 1/2" (2 1/4" MIN. - 4" MAX.)*	4% @ 70 GYR.
BLISS ROAD - HMA BASE COURSE, 12"	
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm), 12" (2 1/4" MIN. - 4" MAX.)*	4% @ 70 GYR.
BLISS ROAD - HMA BASE COURSE WIDENING, 12"	
HOT-MIX ASPHALT BASE COURSE WIDENING (HMA BINDER IL-19 mm), 12" (2 1/4" MIN. - 4" MAX.)*	4% @ 70 GYR.
BLISS ROAD - LEVELING COURSE	
LEVELING BINDER (MACHINE METHOD), N50, VAR. 1/2" TO 3 1/2"	4% @ 50 GYR.
BLISS ROAD - APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 2"	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19, N70 (2 1/4" MIN. - 4" MAX.)*	4% @ 70 GYR.
HMA SHOULDERS, 3" OR 6 1/2"	
HOT-MIX ASPHALT SHOULDER (HMA BINDER IL-19 mm), (2 1/4" MIN. - 4" MAX.)*	4% @ 70 GYR.
HMA PATCHING	
CLASS D PATCHES (HMA BINDER IL-19 mm), (2 1/4" MIN. - 4" MAX.)*	4% @ 70 GYR.
HMA DRIVEWAYS - 8" (P.E.) / 10" (C.E.)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm), 2"	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm), 6" (P.E.) (2 1/4" MIN. - 4" MAX.)*	4% @ 50 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm), (C.E.) 8" (2 1/4" MIN. - 4" MAX.)*	4% @ 50 GYR.
TEMPORARY PAVEMENT 7 1/4" - STAGE 1A*	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm), 2"	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 5 1/2" (2 1/4" MIN. - 4" MAX.)*	4% @ 70 GYR.
TEMPORARY RAMP	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	4% @ 70 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB/SQ YD/IN.
 THE AC TYPE FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.
 FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS.
 PC CONCRETE TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS, PCC PAVEMENT 7 1/2" THICK. TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS.
 *NUMBER OF LIFTS TO BE DETERMINED BY THE ENGINEER.



CURB ADJACENT TO WIDENING

- PERFORATED CORRUGATED PE PIPE W/SMOOTH INTERIOR
- INCLUDED IN THE COST OF "PIPE UNDERDRAIN, TYPE 2, 4."

STRUCTURAL PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC: Year 2027
 PV = 10,992 SU = 229 MU = 229
 ROAD/STREET CLASSIFICATION: Class 2
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P = 96 S = 2 M = 2
 TRAFFIC FACTOR: Actual TF = 1.16 AC Type = PG 64-22
 Minimum TF = NA
 PG GRADE: Binder = PG 64-22 /58-22 Surface = PG 64-22
 SUBGRADE SUPPORT RATING: SSR = (POOR)

LEGEND, EXISTING

- (A) EXISTING GROUND
- (K) EXISTING CHAIN LINK FENCE - TO REMAIN

LEGEND, PROPOSED

- (1) 2" HMA SURFACE COURSE, MIX "D", N70 (40603340)
- (2) 6 1/2" HMA BINDER COURSE, IL-19.0, N70 (40603085)
- (3) HOT-MIX ASPHALT BASE COURSE, 12" (35501332)
- (4) HOT-MIX ASPHALT BASE COURSE WIDENING, 12" (35600724)
- (5) LEVELING BINDER (MACHINE METHOD), N70 (40600635)
- (6) AGGREGATE SUBGRADE IMPROVEMENT, 12" (30300112)
- (7) HMA SHOULDERS, 3" (48203009) (2" HMA SC PAID FOR SEPARATELY)
- (8) HMA SHOULDERS, 6 1/2" (48203023) (2" HMA SC PAID FOR SEPARATELY)
- (9) COMBINATION CONCRETE CURB & GUTTER, TYPE B6.24 (60605000)
- (10) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS W/GUARDRAIL MARKERS
- (11) STRUCTURAL EMBANKMENT
- (12) 6" TOPSOIL PLACEMENT
- (13) SEEDING (TYPE AS SPECIFIED) W/EROSION CONTROL BLANKET
- (14) SUBBASE GRANULAR MATERIAL, TYPE B, VAR. THICKNESS (31101100)
- (15) PIPE UNDERDRAIN, TYPE 2, 4" (60108204)
- (16) AGGREGATE SUBGRADE IMPROVEMENT, VAR." (30300001)
- (17) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (21001000)

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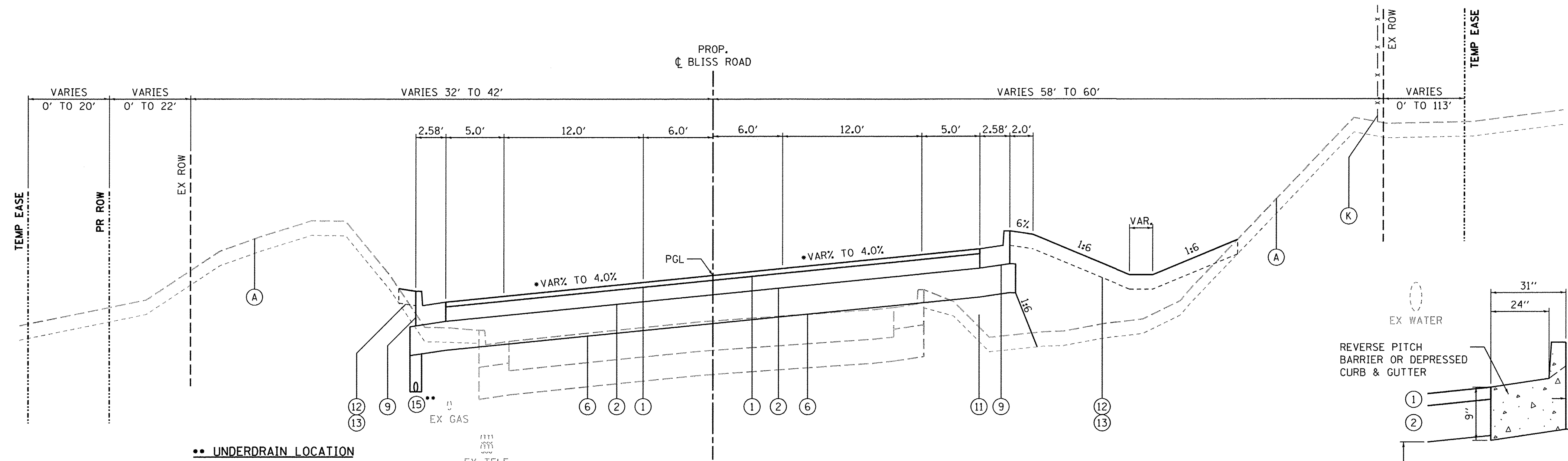
WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nperis	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1/5	DRAWN - NDP	REVISED -
PLOT DATE = 18/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS	
SCALE:	SHEET NO. 4 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-0058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 25
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION NO. 2

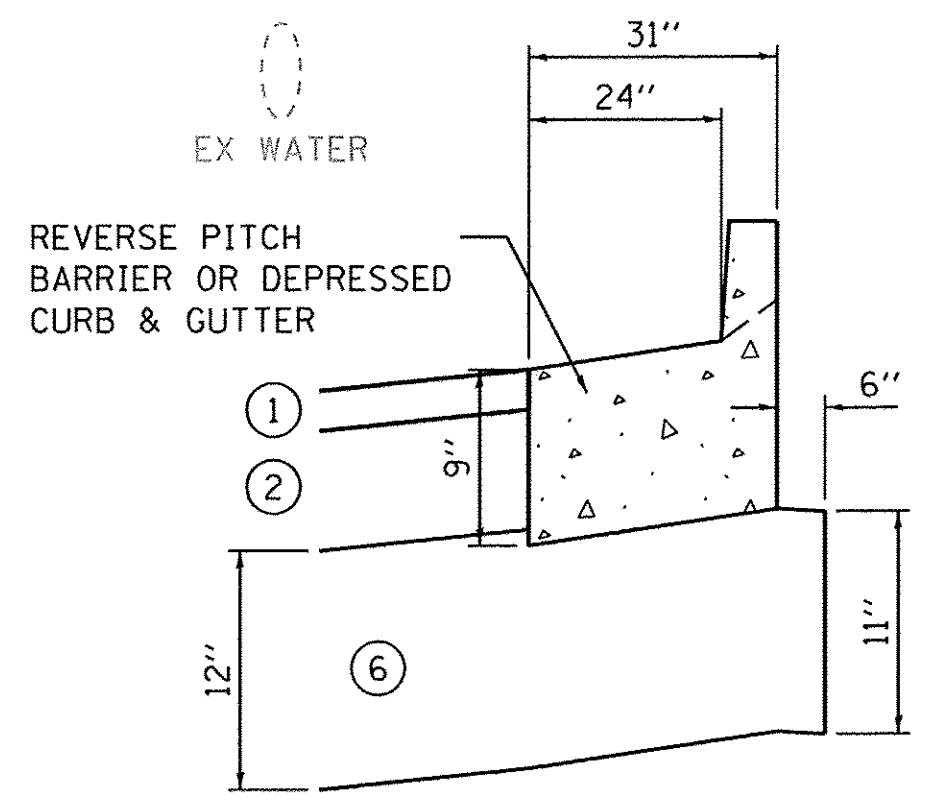
STA. 12+00.0 TO STA. 15+50.8 LT, BLISS ROAD
STA. 12+00.0 TO STA. 15+54.3 RT, BLISS ROAD

PROPOSED BRIDGE OMISSION

STA. 15+50.8 TO STA. 16+96.9 LT, BLISS ROAD
STA. 15+54.3 TO STA. 16+95.1 RT, BLISS ROAD

*** SUPERELEVATION**

STA. 11+00.0 TO STA. 12+35.0, TRANSITION TO 4.0% S.E.
STA. 12+35.0 TO STA. 16+98.0, FULL S.E. @ 4.0%



REVERSE PITCH CONCRETE CURB AND GUTTER

STA. 12+35.0 TO STA. 15+09.8, RT
(SEE ALSO IDOT STD. 606001)

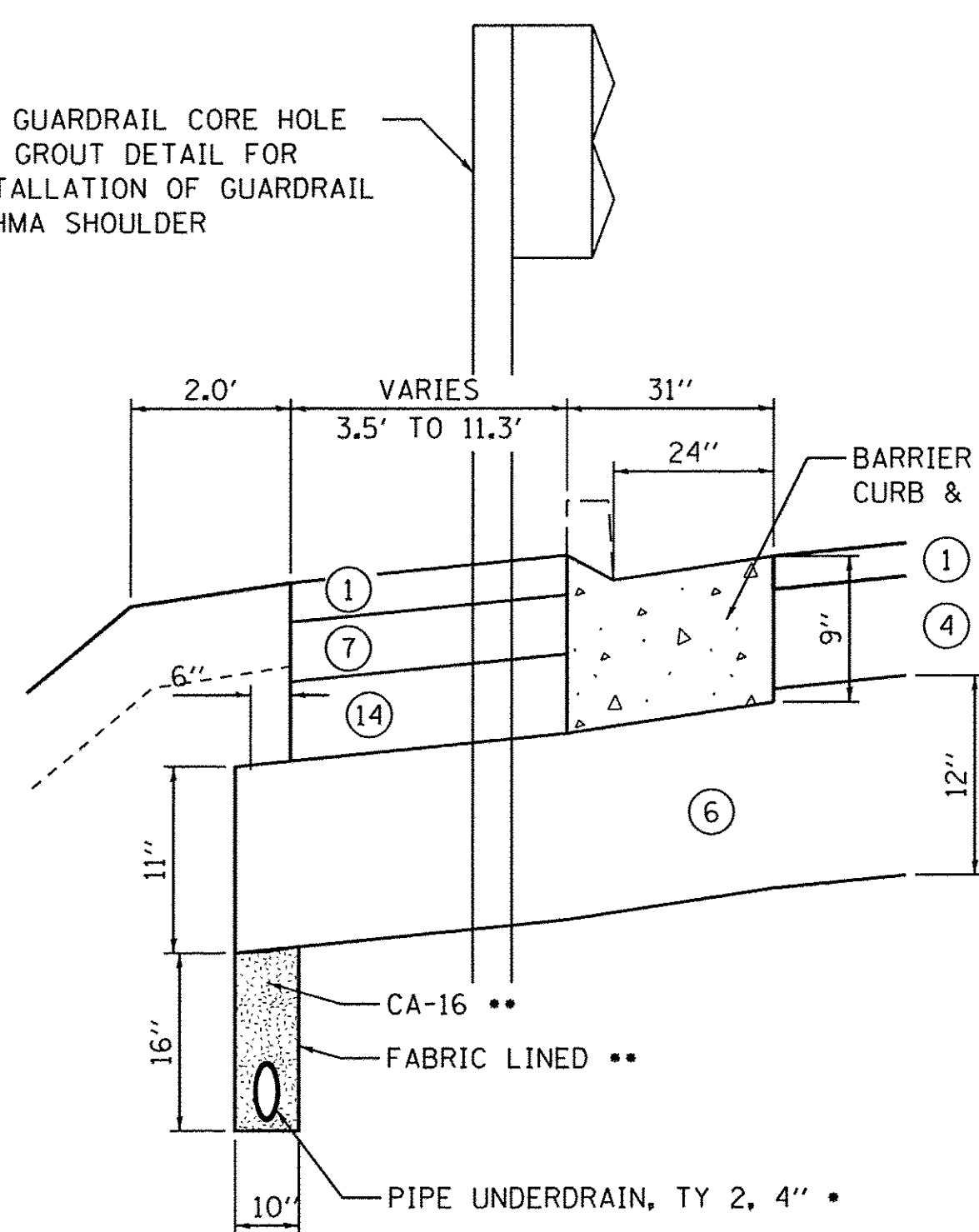
LEGEND, EXISTING

- (A) EXISTING GROUND
- (K) EXISTING CHAIN LINK FENCE - TO REMAIN

LEGEND, PROPOSED

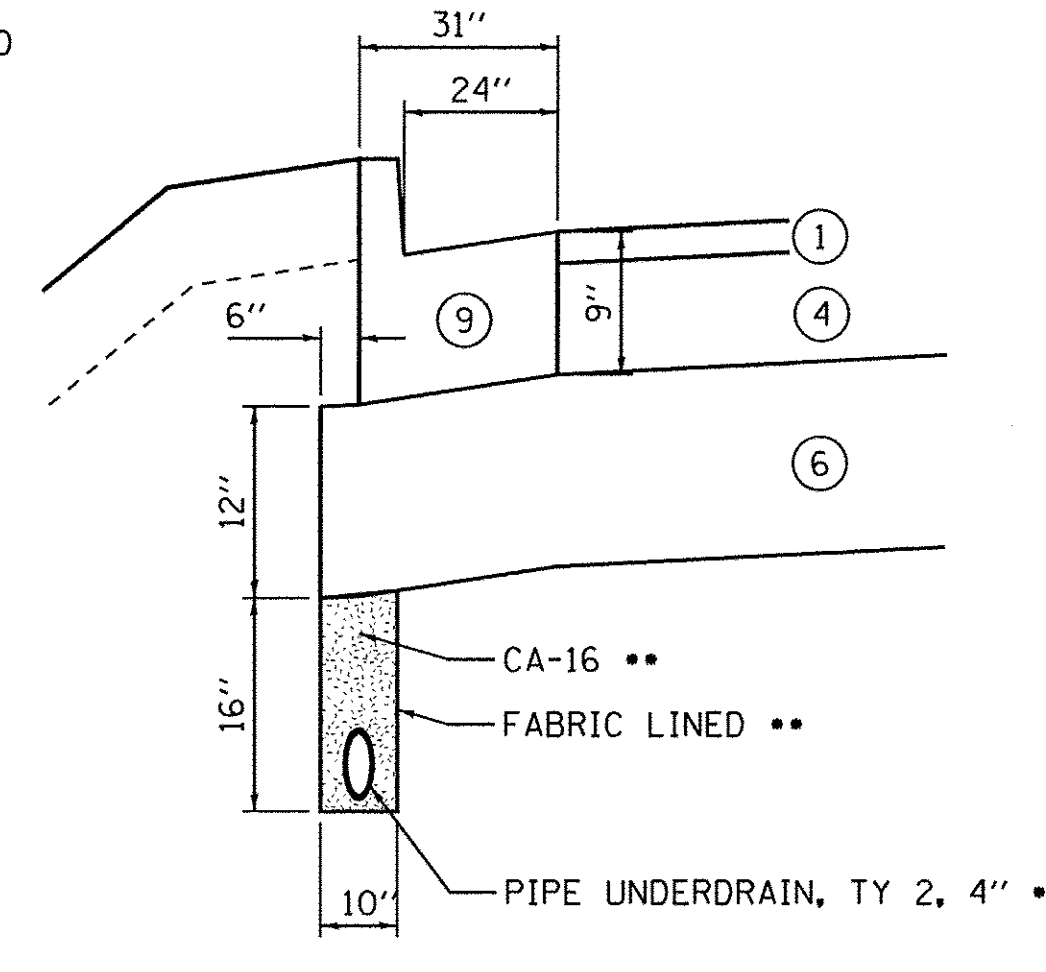
- (1) 2" HMA SURFACE COURSE, MIX "D", N70 (40603340)
- (2) 6 1/2" HMA BINDER COURSE, IL-19.0, N70 (40603085)
- (3) HOT-MIX ASPHALT BASE COURSE, 12" (35501332)
- (4) HOT-MIX ASPHALT BASE COURSE WIDENING, 12" (35600724)
- (5) LEVELING BINDER (MACHINE METHOD), N70 (40600635)
- (6) AGGREGATE SUBGRADE IMPROVEMENT, 12" (30300112)
- (7) HMA SHOULDERS, 3" (48203009) (2" HMA SC PAID FOR SEPARATELY)
- (8) HMA SHOULDERS, 6 1/2" (48203023) (2" HMA SC PAID FOR SEPARATELY)
- (9) COMBINATION CONCRETE CURB & GUTTER, TYPE B6.24 (60605000)
- (10) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS W/GUARDRAIL MARKERS
- (11) STRUCTURAL EMBANKMENT
- (12) 6" TOPSOIL PLACEMENT
- (13) SEEDING (TYPE AS SPECIFIED) W/EROSION CONTROL BLANKET
- (14) SUBBASE GRANULAR MATERIAL, TYPE B, VAR. THICKNESS (31101100)
- (15) PIPE UNDERDRAIN, TYPE 2, 4" (60108204)
- (16) AGGREGATE SUBGRADE IMPROVEMENT, VAR." (30300001)
- (17) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (21001000)

SEE GUARDRAIL CORE HOLE AND GROUT DETAIL FOR INSTALLATION OF GUARDRAIL IN HMA SHOULDER



CONCRETE CURB AND GUTTER W/GUARDRAIL AND HMA SHOULDER

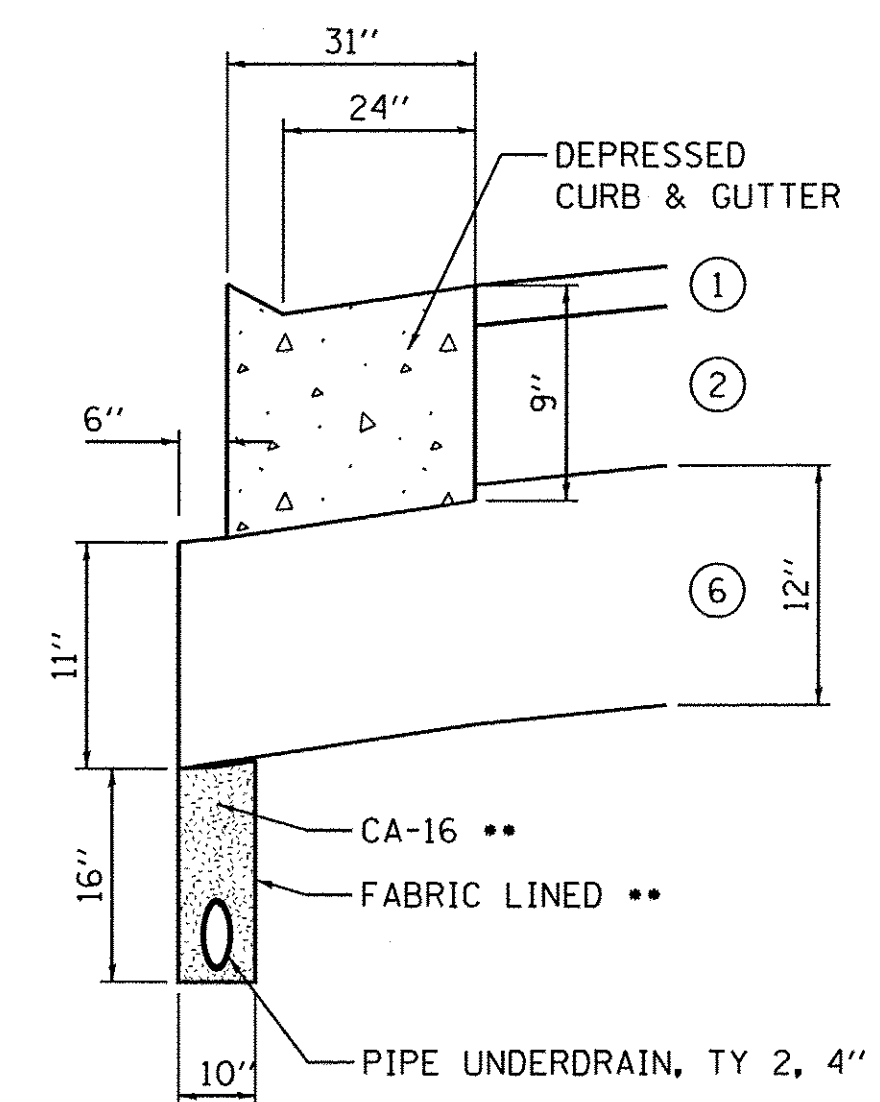
STA. 13+62.4 TO STA. 15+50.7, LT
STA. 14+98.6 TO STA. 15+54.7, RT
(CURB ON RT SIDE WILL BE REVERSED PITCHED)
(SEE ALSO IDOT STD. 606001)



BARRIER CURB AND GUTTER

STA. 12+00.0 TO STA. 12+98.2, LT
STA. 12+00.0 TO STA. 12+35.0, RT,
(SEE ALSO IDOT STD. 606001)

- PERFORATED CORRUGATED PE PIPE W/SMOOTH INTERIOR
- INCLUDED IN THE COST OF "PIPE UNDERDRAIN, TYPE 2, 4"



DEPRESSED CONCRETE CURB AND GUTTER

STA. 12+98.2 TO STA. 13+80.3, LT
(SEE ALSO IDOT STD. 606001)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

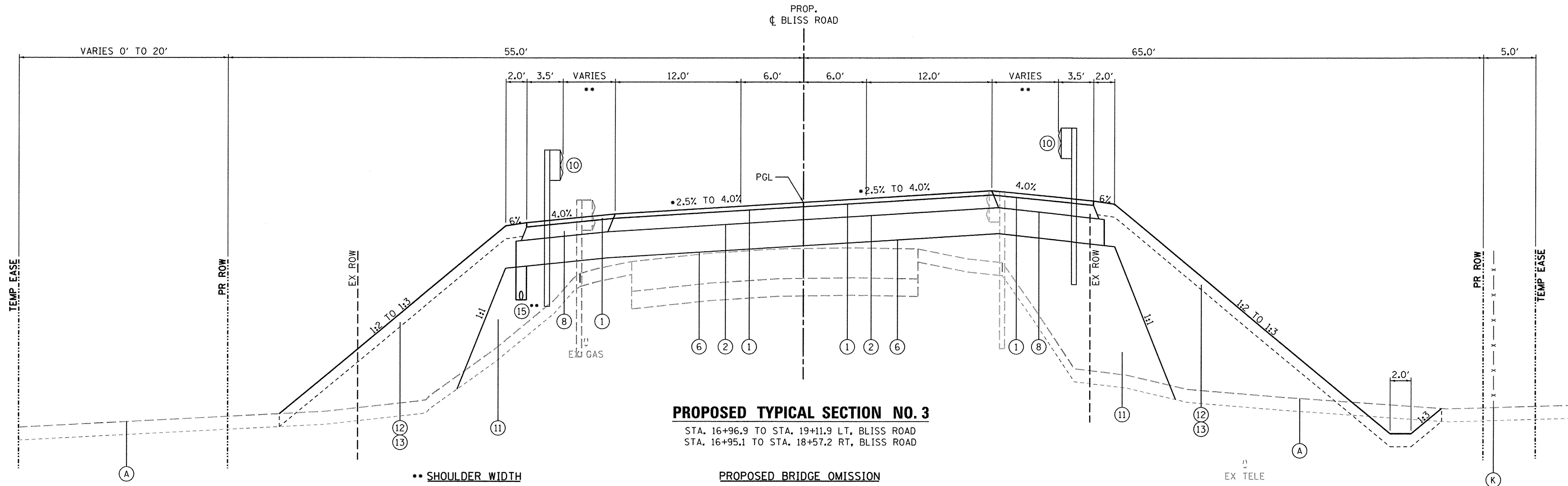
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	26
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

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WBK engineering
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:5	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -



PROPOSED TYPICAL SECTION NO. 3

STA. 16+96.9 TO STA. 19+11.9 LT, BLISS ROAD
 STA. 16+95.1 TO STA. 18+57.2 RT, BLISS ROAD

PROPOSED BRIDGE OMISSION

STA. 15+50.8 TO STA. 16+96.9 LT, BLISS ROAD
 STA. 15+54.3 TO STA. 16+95.1 RT, BLISS ROAD

SUPER ELEVATION

STA. 16+98.0 TO STA. 17+40.0, TRANSITION 4.0% TO 2.5% S.E.
 STA. 17+40.0 TO 19+11.9, FULL S.E. @ 2.5%

SHOULDER WIDTH

STA. 16+96.8 TO STA. 17+72.2 LT, TAPER 6.0' TO 4.7'
 STA. 17+72.2 TO STA. 18+61.5 LT, TAPER 4.7' TO 5.0'
 STA. 18+61.5 TO STA. 19+11.9 LT, TAPER 5.0' TO 6.0'
 STA. 16+95.1 TO STA. 17+18.6 RT, TAPER 6.7' TO 7.6'
 STA. 17+18.6 TO STA. 18+00.0 RT, TAPER 7.6' TO 5.0'
 STA. 18+00.0 TO STA. 18+57.2 RT, TAPER 5.0' TO 6.0'

UNDERDRAIN LOCATION

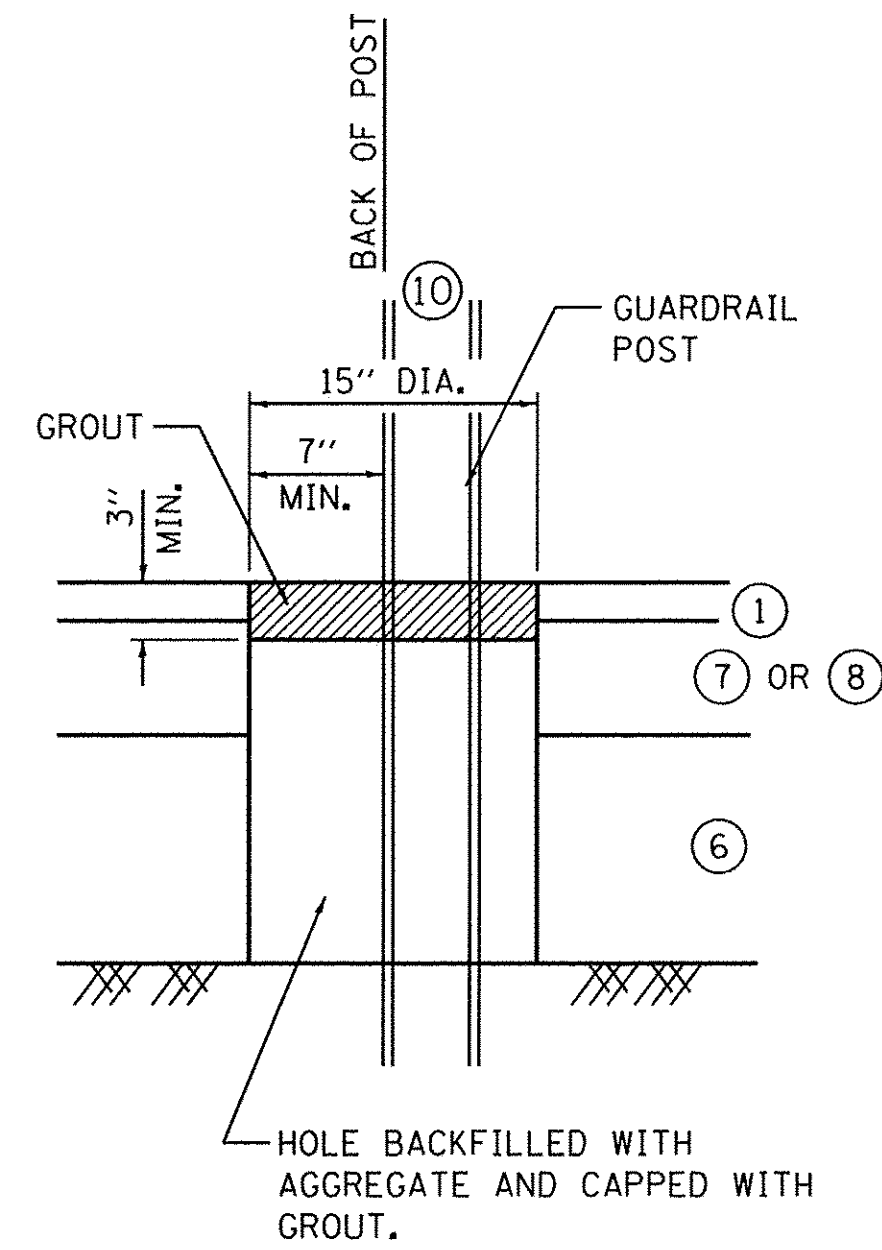
STA. 16+96.7 TO STA. 19+11.9, LT

LEGEND, EXISTING

- (A) EXISTING GROUND
- (K) EXISTING CHAIN LINK FENCE - TO REMAIN

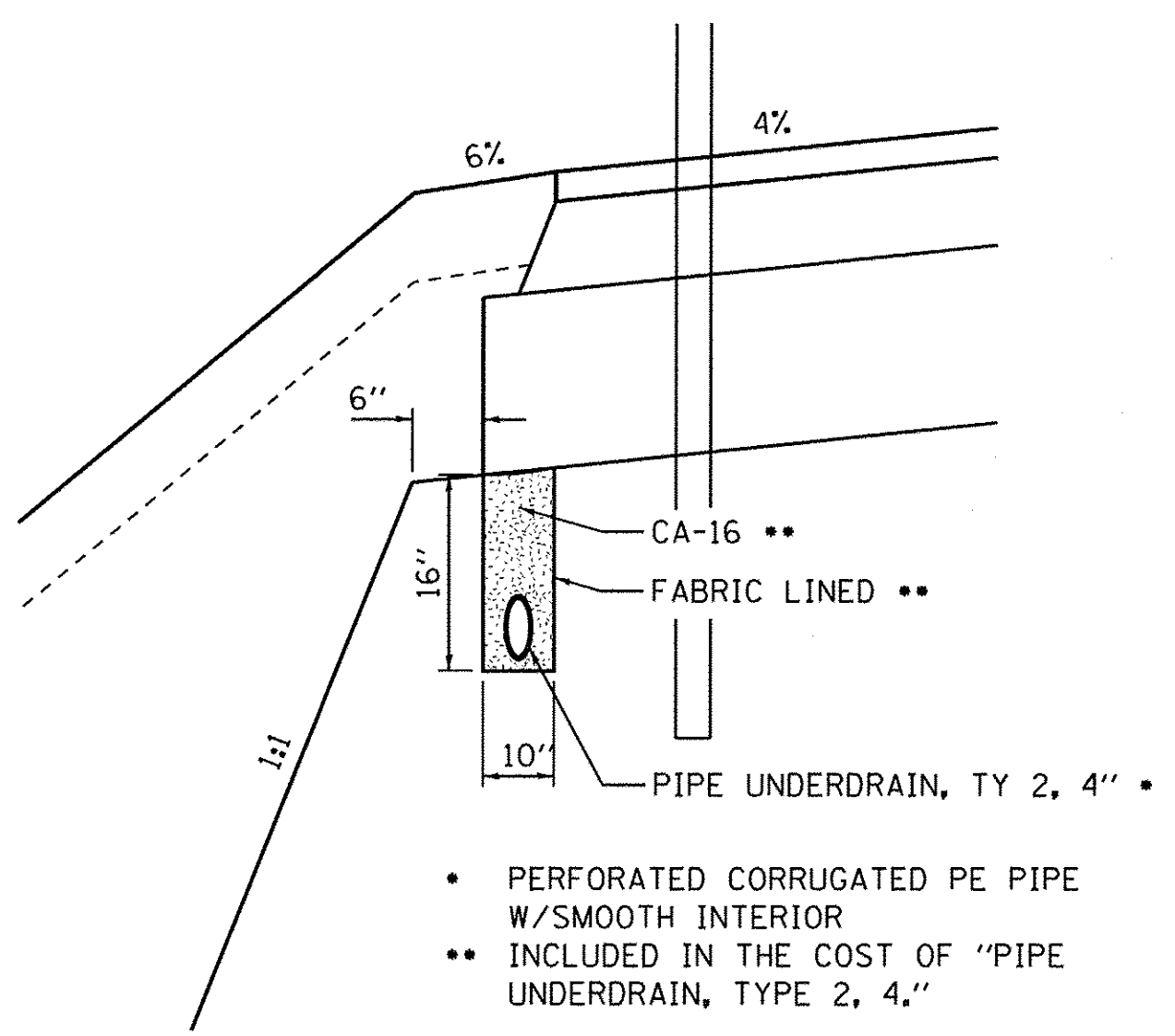
LEGEND, PROPOSED

- (1) 2" HMA SURFACE COURSE, MIX "D", N70 (40603340)
- (2) 6 1/2" HMA BINDER COURSE, IL-19.0, N70 (40603085)
- (3) HOT-MIX ASPHALT BASE COURSE, 12" (35501332)
- (4) HOT-MIX ASPHALT BASE COURSE WIDENING, 12" (35600724)
- (5) LEVELING BINDER (MACHINE METHOD), N70 (40600635)
- (6) AGGREGATE SUBGRADE IMPROVEMENT, 12" (30300112)
- (7) HMA SHOULDERS, 3" (48203009) (2" HMA SC PAID FOR SEPARATELY)
- (8) HMA SHOULDERS, 6 1/2" (48203023) (2" HMA SC PAID FOR SEPARATELY)
- (9) COMBINATION CONCRETE CURB & GUTTER, TYPE B6.24 (60605000)
- (10) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS W/GUARDRAIL MARKERS
- (11) STRUCTURAL EMBANKMENT
- (12) 6" TOPSOIL PLACEMENT
- (13) SEEDING (TYPE AS SPECIFIED) W/EROSION CONTROL BLANKET
- (14) SUBBASE GRANULAR MATERIAL, TYPE B, VAR. THICKNESS (31101100)
- (15) PIPE UNDERDRAIN, TYPE 2, 4" (60108204)
- (16) AGGREGATE SUBGRADE IMPROVEMENT, VAR." (30300001)
- (17) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (21001000)



GUARDRAIL GROUT DETAIL

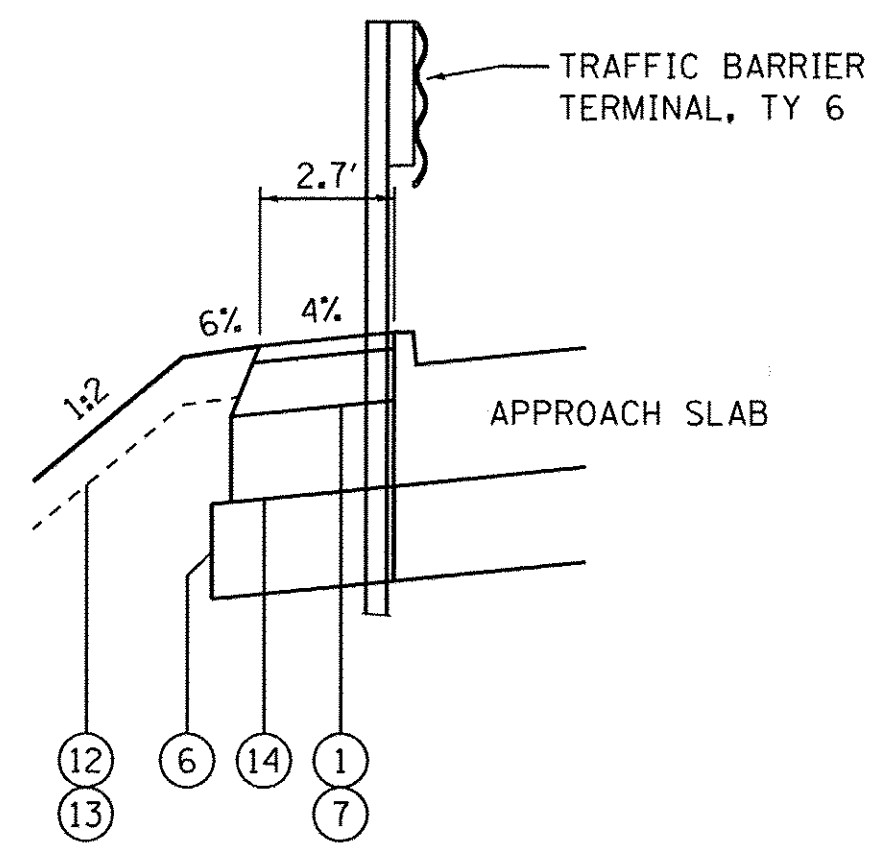
SEE STD. 630201 FOR ADDITIONAL DETAILS



HMA SHOULDER W/UNDERDRAIN

STA. 16+96.7 TO STA. 19+11.9, LT

- PERFORATED CORRUGATED PE PIPE W/SMOOTH INTERIOR
- INCLUDED IN THE COST OF "PIPE UNDERDRAIN, TYPE 2, 4."



HMA SHOULDER BEHIND CURB DETAIL

STA. 15+50.7 TO 15+70.1 LT
 STA. 15+54.6 TO 15+74.1 RT
 -- BRIDGE OMISSION --
 STA. 16+77.8 TO 16+97.0 LT
 STA. 16+75.2 TO 16+95.0 RT

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WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

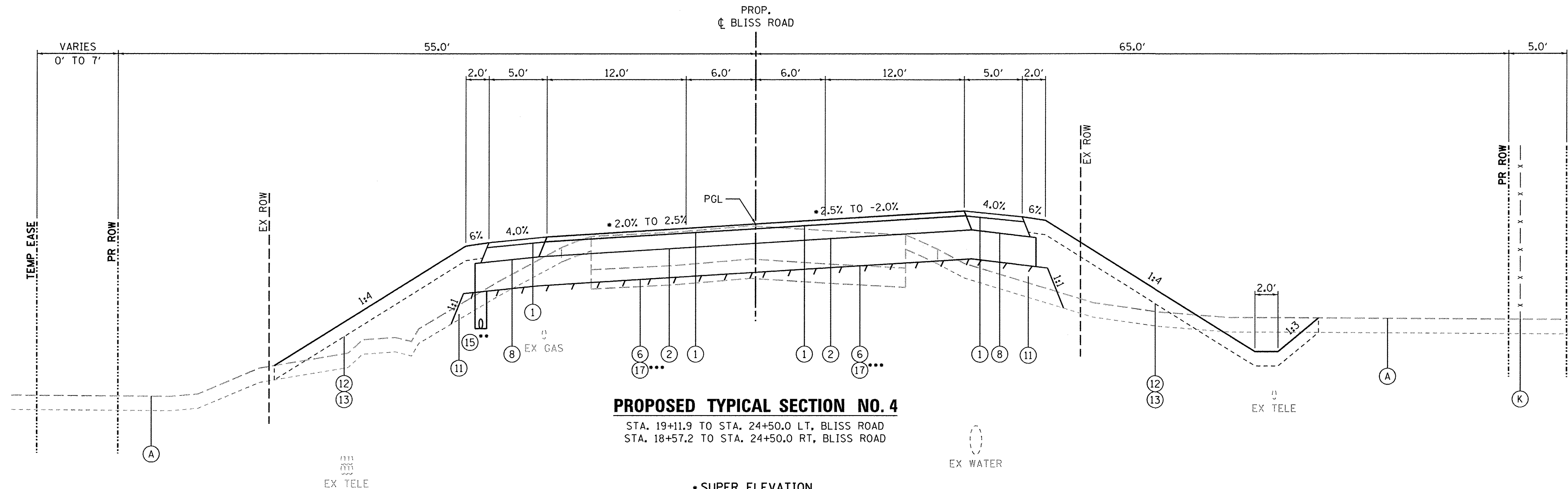
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PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE:	SHEET NO. 6 OF 9 SHEETS	STA. TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	27
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION NO. 4
 STA. 19+11.9 TO STA. 24+50.0 LT, BLISS ROAD
 STA. 18+57.2 TO STA. 24+50.0 RT, BLISS ROAD

••• GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
 STA. 21+35.0 TO STA. 24+50.0, LT/RT

•• UNDERDRAIN LOCATION
 STA. 19+11.9 TO STA. 24+50.0, LT

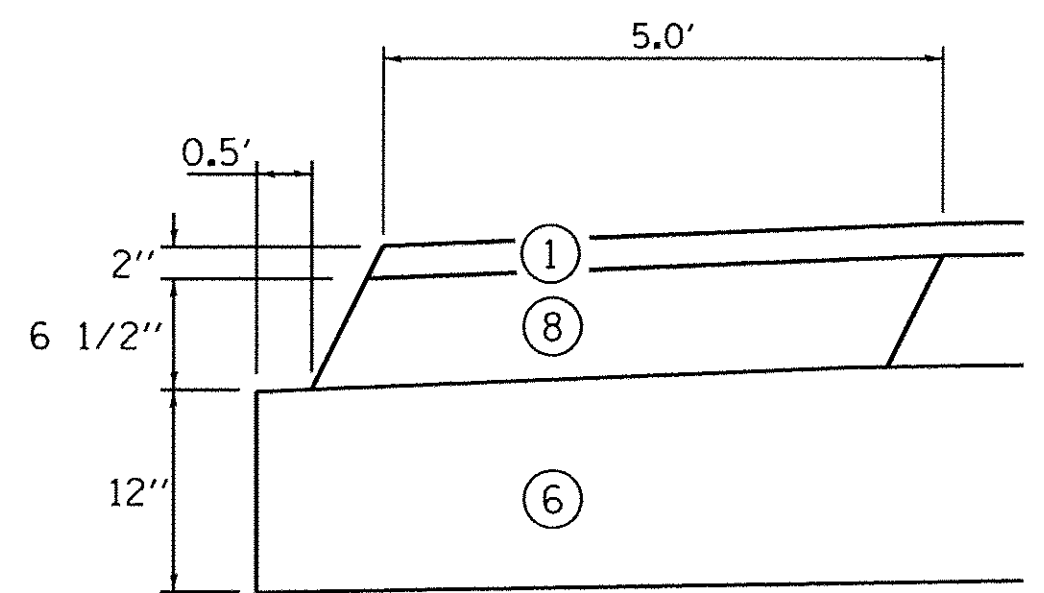
• SUPER ELEVATION
 STA. 19+11.9 TO STA. 22+95.0, FULL S.E. @ 2.5%
 STA. 22+95.0 TO STA. 24+21.0, TRANSITION TO NORMAL CROWN @ 2.0%
 STA. 24+21.0 TO STA. 24+50.0, NORMAL CROWN @ 2.0%

LEGEND, EXISTING

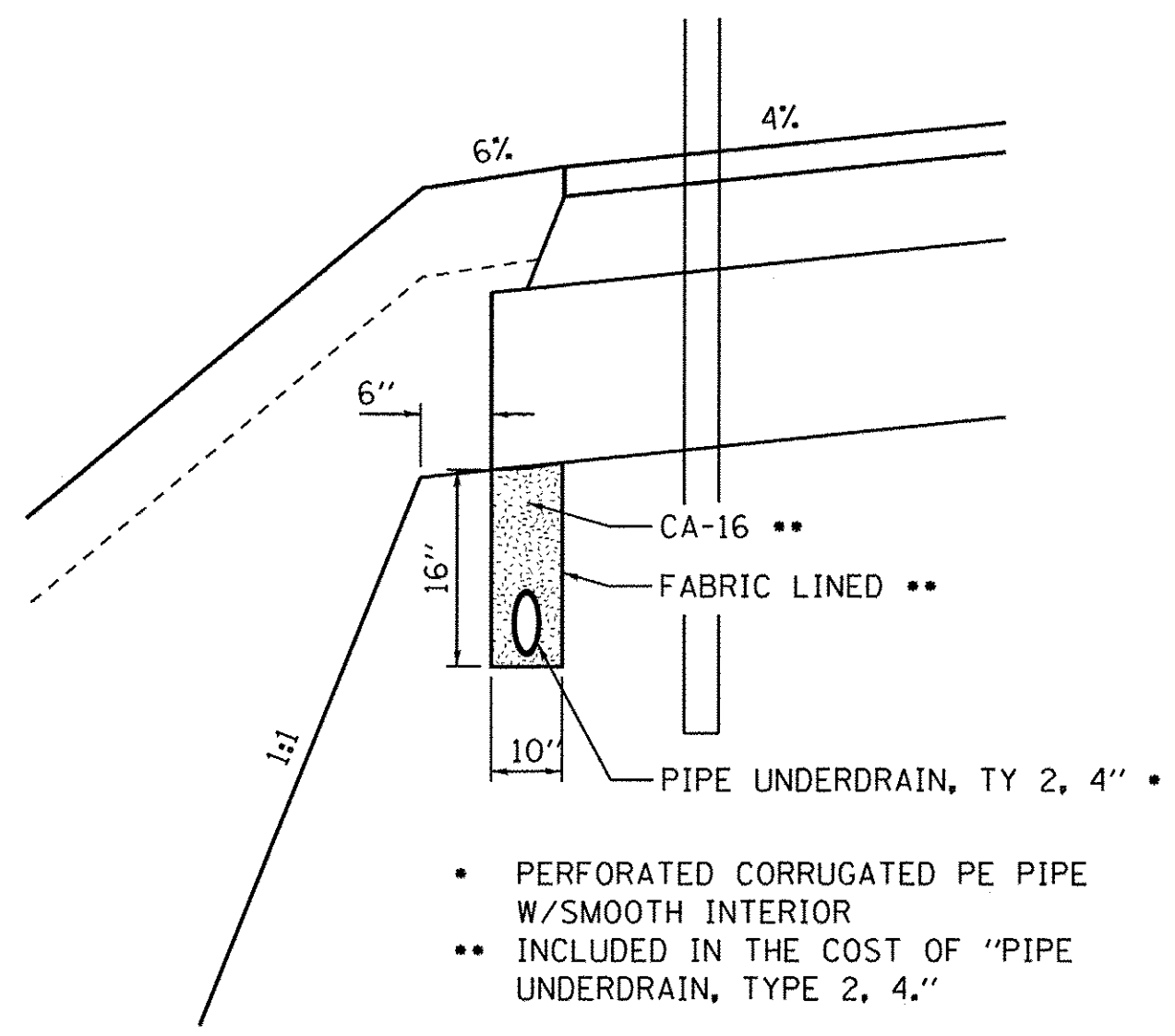
- (A) EXISTING GROUND
- (K) EXISTING CHAIN LINK FENCE - TO REMAIN

LEGEND, PROPOSED

- (1) 2" HMA SURFACE COURSE, MIX "D", N70 (40603340)
- (2) 6 1/2" HMA BINDER COURSE, IL-19.0, N70 (40603085)
- (3) HOT-MIX ASPHALT BASE COURSE, 12" (35501332)
- (4) HOT-MIX ASPHALT BASE COURSE WIDENING, 12" (35600724)
- (5) LEVELING BINDER (MACHINE METHOD), N70 (40600635)
- (6) AGGREGATE SUBGRADE IMPROVEMENT, 12" (30300112)
- (7) HMA SHOULDERS, 3" (48203009) (2" HMA SC PAID FOR SEPARATELY)
- (8) HMA SHOULDERS, 6 1/2" (48203023) (2" HMA SC PAID FOR SEPARATELY)
- (9) COMBINATION CONCRETE CURB & GUTTER, TYPE B6.24 (60605000)
- (10) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS W/GUARDRAIL MARKERS
- (11) STRUCTURAL EMBANKMENT
- (12) 6" TOPSOIL PLACEMENT
- (13) SEEDING (TYPE AS SPECIFIED) W/EROSION CONTROL BLANKET
- (14) SUBBASE GRANULAR MATERIAL, TYPE B, 5" (31101300)
- (15) PIPE UNDERDRAIN, TYPE 2, 4" (60108204)
- (16) AGGREGATE SUBGRADE IMPROVEMENT, VAR." (30300001)
- (17) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (21001000)



**HMA SHOULDER DETAIL
 ADJACENT TO FULL DEPTH PAVEMENT**



HMA SHOULDER W/UNDERDRAIN
 STA. 19+11.9 TO STA. 24+50.0, LT

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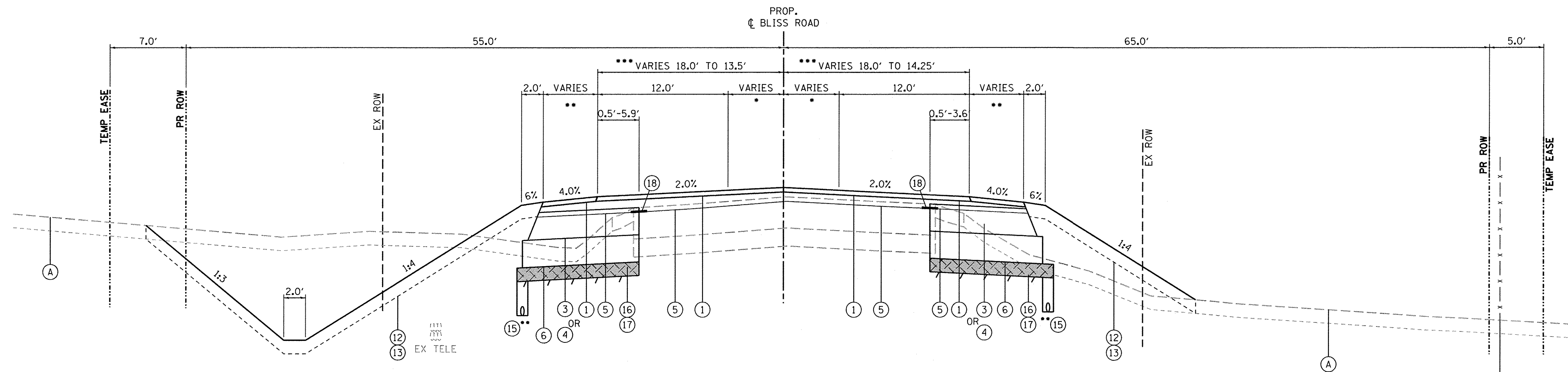
WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:5	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS		
SCALE:	SHEET NO. 7 OF 9 SHEETS	STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 28
CONTRACT NO. 61D20				ILLINOIS FED. AID PROJECT



*** PAINTED MEDIAN WIDTH**
 STA. 24+50.0 TO 25+60.0 LT/RT, 6.0'
 STA. 25+60.0 TO 28+30.0 LT/RT, TAPER 6.0' TO 0.0'

**** SHOULDER WIDTH**
 STA. 24+50.0 TO 28+30.0 LT/RT, 5.0'
 STA. 28+30.0 TO 28+50.0 LT/RT, TAPER 5.0' TO 2.0'

***** PAVEMENT WIDTH**
 STA. 24+50.0 TO 25+60.0 LT/RT, 18.0'
 STA. 25+60.0 TO 28+50.0 LT, TAPER 18.0' TO 13.5'
 STA. 25+60.0 TO 28+50.0 RT, TAPER 18.0' TO 14.3'

ESTIMATED THICKNESS
 FOR UNDERCUTTING, AGGREGATE
 IMPROVEMENT SUBGRADE AND
 GEOTECHNICAL FABRIC

BORING	LOCATION	THICKNESS
B 102	24+50 TO 28+50	6 INCHES

**** UNDERDRAIN LOCATION**
 STA. 24+50.0 TO STA. 28+50.0, LT/RT

PROPOSED TYPICAL SECTION NO. 5
 STA. 24+50.0 TO STA. 28+50.0 LT/RT, BLISS ROAD

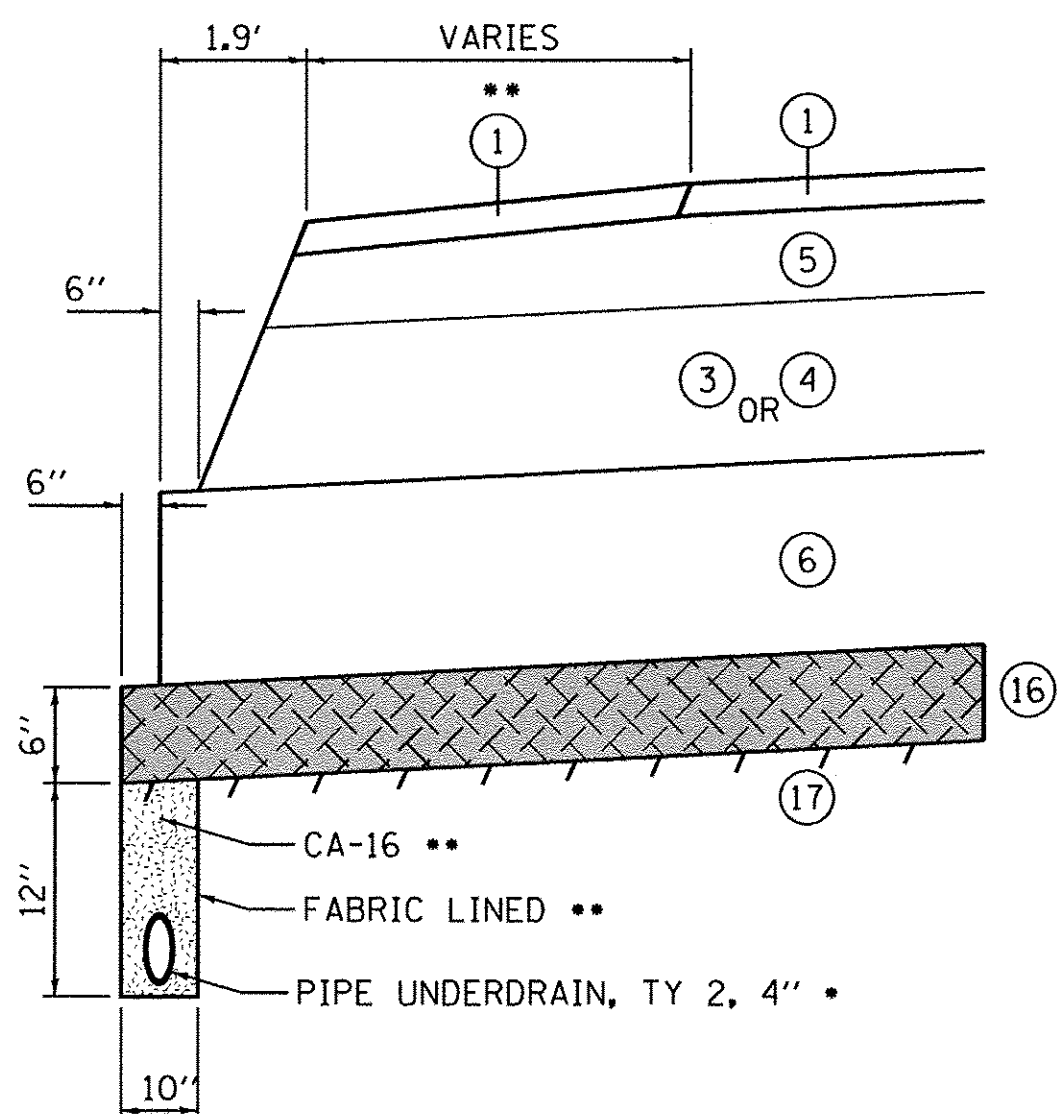


LEGEND, EXISTING

- (A) EXISTING GROUND
- (K) EXISTING CHAIN LINK FENCE - TO REMAIN

LEGEND, PROPOSED

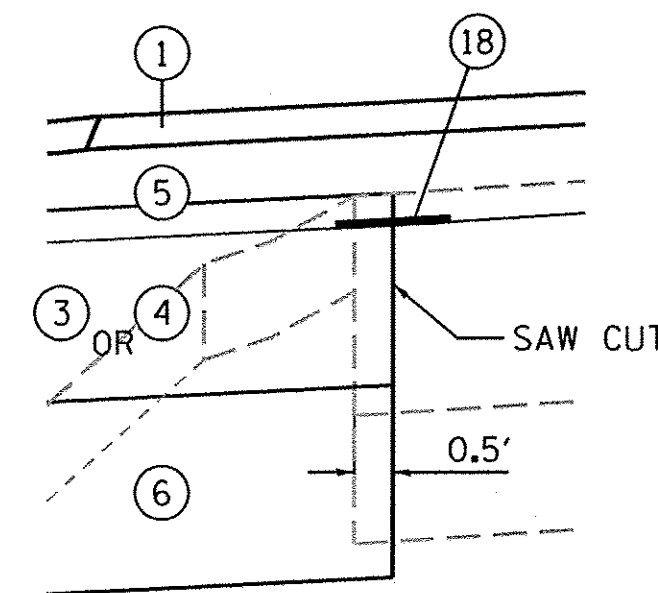
- (1) 2" HMA SURFACE COURSE, MIX "D", N70 (40603340)
- (2) 6 1/2" HMA BINDER COURSE, IL-19.0, N70 (40603085)
- (3) HOT-MIX ASPHALT BASE COURSE, 12" (35501332)
- (4) HOT-MIX ASPHALT BASE COURSE WIDENING, 12" (35600724)
- (5) LEVELING BINDER (MACHINE METHOD), N70 (40600635)
- (6) AGGREGATE SUBGRADE IMPROVEMENT, 12" (30300112)
- (7) HMA SHOULDERS, 3" (48203009) (2" HMA SC PAID FOR SEPARATELY)
- (8) HMA SHOULDERS, 6 1/2" (48203023) (2" HMA SC PAID FOR SEPARATELY)
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- (10) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS W/GUARDRAIL MARKERS
- (11) STRUCTURAL EMBANKMENT
- (12) 6" TOPSOIL PLACEMENT
- (13) SEEDING (TYPE AS SPECIFIED) W/EROSION CONTROL BLANKET
- (14) SUBBASE GRANULAR MATERIAL, TYPE B, 5" (31101300)
- (15) PIPE UNDERDRAIN, TYPE 2, 4" (60108204)
- (16) AGGREGATE SUBGRADE IMPROVEMENT, VAR." (30300001)
- (17) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (21001000)
- (18) STRIP REFLECTIVE CRACK CONTROL TREATMENT (44300200)



**SHOULDER DETAIL
 ADJACENT TO WIDENING**

HMA BASE COURSE, 12"
 STA. 24+50.0 TO 27+23.5 LT/RT
 HMA BASE COURSE WIDENING, 12"
 STA. 27+23.5 TO 28+50.0 LT/RT

- PERFORATED CORRUGATED PE PIPE W/SMOOTH INTERIOR
- INCLUDED IN THE COST OF "PIPE UNDERDRAIN, TYPE 2, 4"



**STRIP REFLECTIVE CRACK
 CONTROL TREATMENT DETAIL**
 STA. 24+50.0 TO STA. 28+50.0 LT/RT, BLISS ROAD

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USER NAME = nperris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:5	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

TYPICAL SECTIONS

SCALE: SHEET NO. 8 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	29
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

POT Sta 9+00.00
N 1,862,046.150
E 954,639.775

PROJECT BEGINS
STA. 10+35.00
N 1,862,111.864
E 954,757.701

BLISS ROAD
CAPITOL DRIVE
Sta 11+00.32
N 1862143.659
E 954814.759

CONTROL POINT 7

CONTROL POINT 11

CONTROL POINT 303

CONTROL POINT 305

CONTROL POINT 307

CONTROL POINT 308

PC Sta 11+93.22
N 1,862,188.879
E 954,895.909

PR BLISS-1
PI Sta 14+17.51
N 1,862,299.928
E 955,095.192

TEMPORARY DRIVEWAY

BRIDGE
STA. 16+24.34
N 1,862,472.223
E 955,216.406

PCC Sta 16+41.81
N 1,862,486.419
E 955,226.595

REFERENCE MARK
IL KANE 9 38 7,
PID AJ3002
TO BE RELOCATED

PT Sta 23+26.20
N 1,863,085.811
E 955,553.850

PR BLISS-2
PI Sta 19+84.01
N 1,862,767.369
E 955,424.557

RELOCATED PERM SURV
MKR (SEE NOTES)
STA. 25+30+00, 50.00' LT
N 1,863,293.447
E 955,584.190

PR BLISS-3
PI Sta 30+99.00
N 1,863,802.271
E 955,844.746

PC Sta 28+73.15
N 1,863,592.582
E 955,759.608

PT Sta 33+24.84
N 1,863,995.991
E 955,961.752

CURVE DATA

PROP. CURVE PR.BLISS-1
PI STA. = 14+21.35
Δ = 25° 42' 09" (LT)
D = 5° 43' 46"
R = 1,000.00'
T = 228.13'
L = 448.59'
E = 25.69'
e = -----
T.R. = -----
S.E. RUN = SEE PLANS
P.C. STA = 11+93.22
P.T. STA = 16+41.81

PROP. CURVE PR.BLISS-2
PI STA. = 19+85.50
Δ = 13° 04' 15" (LT)
D = 1° 54' 35"
R = 3,000.00'
T = 343.69'
L = 684.39'
E = 19.62'
e = -----
T.R. = -----
S.E. RUN = SEE PLANS
P.C. STA = 16+41.81
P.T. STA = 23+26.20

PROP. CURVE PR.BLISS-3
PI STA. = 30+99.47
Δ = 9° 02' 02" (RT)
D = 2° 00' 00"
R = 2,864.79'
T = 226.31'
L = 451.69'
E = 8.93'
e = -----
T.R. = -----
S.E. RUN = SEE PLANS
P.C. STA = 28+73.15
P.T. STA = 33+24.84

LEGEND

⊙ = BENCH MARK/REFERENCE MARK LOCATION
△ = HORIZONTAL CONTROL POINT LOCATION

EXISTING REFERENCE MARK

IL KANE 9 38 7, PID AJ3002
(NAVD 88 DATUM)

STATION LOCATED APPROX. 23.1 FT WEST OF CENTERLINE OF BLISS ROAD, APPROX. 275 FT SOUTH OF ENTRANCE TO THE AURORA SPORTSMAN CLUB, AND APPROX. 180 FT NORTH OF CENTERLINE OF BLACKBERRY CREEK. MARK IS APPROX. 2.7 FT WEST OF AN ORANGE FIBERGLASS WITNESS POST.

ELEVATION = 685.929

CURVE DATA

PROP. CURVE PR.TEMPDW-1
PI STA. = 112+66.40
Δ = 8° 00' 59" (LT)
D = 5° 27' 43"
R = 1,049.00'
T = 73.50'
L = 146.77'
E = 2.57'
P.C. STA = 111+92.90
P.T. STA = 113+39.67

PROP. CURVE PR.TEMPDW-2
PI STA. = 113+80.31
Δ = 6° 38' 45" (LT)
D = 8° 11' 06"
R = 700.00'
T = 40.64'
L = 81.19'
E = 1.18'
P.C. STA = 113+39.67
P.T. STA = 114+20.86

TEMP DRIVEWAY
BEGINS
STA. 111+00.00
N 1862100.856
E 954838.611

PC Sta 111+92.90
N 1862146.076
E 954919.761

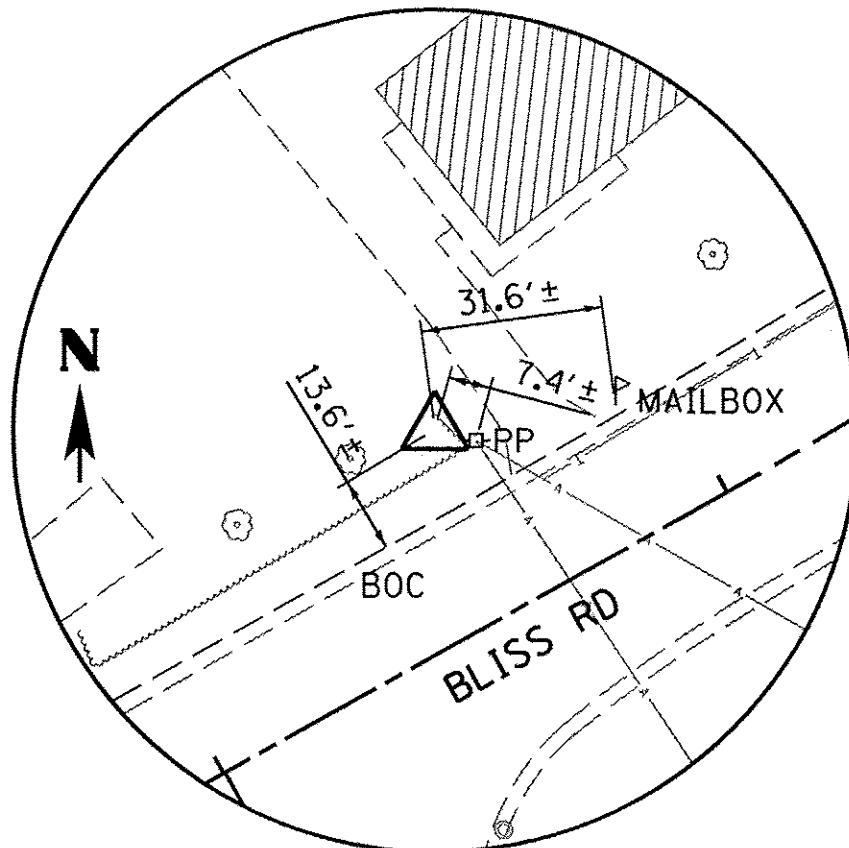
PI Sta 113+80.31
N 1862250.781
E 955074.956

PT Sta 114+20.86
N 1862278.907
E 955104.295

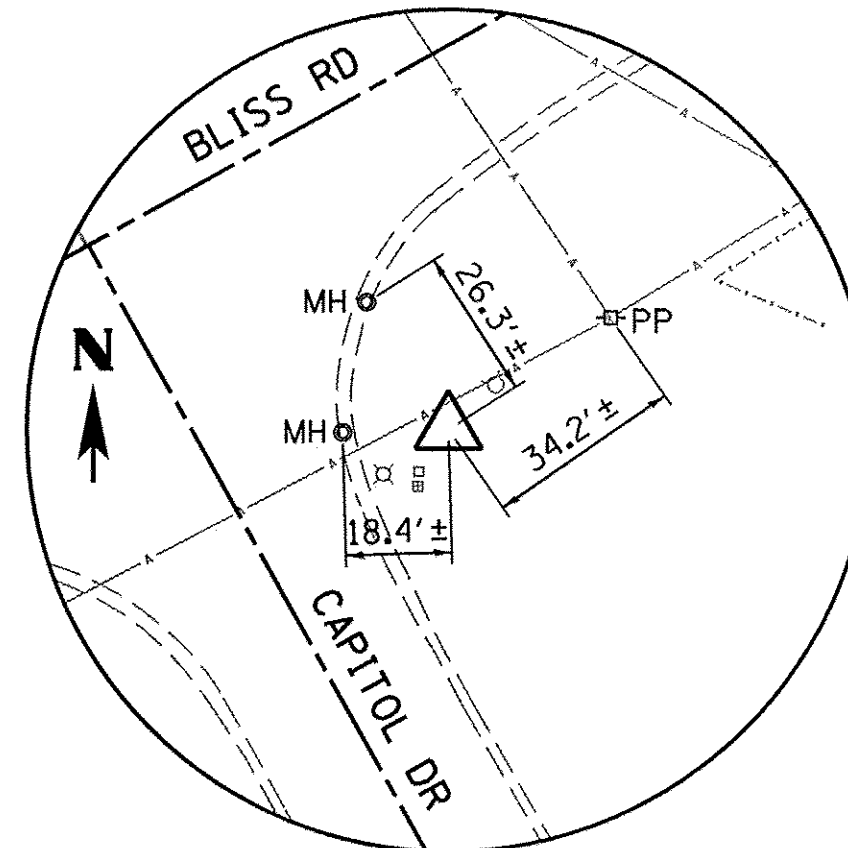
TEMPORARY DRIVEWAY ALIGNMENT

TEMPORARY DRIVEWAY ALIGNMENT IN THIS PLAN SHEET IS NOT DRAWN IN ITS ACTUAL POSITION RELATIVE TO THE COORDINATE SYSTEM.

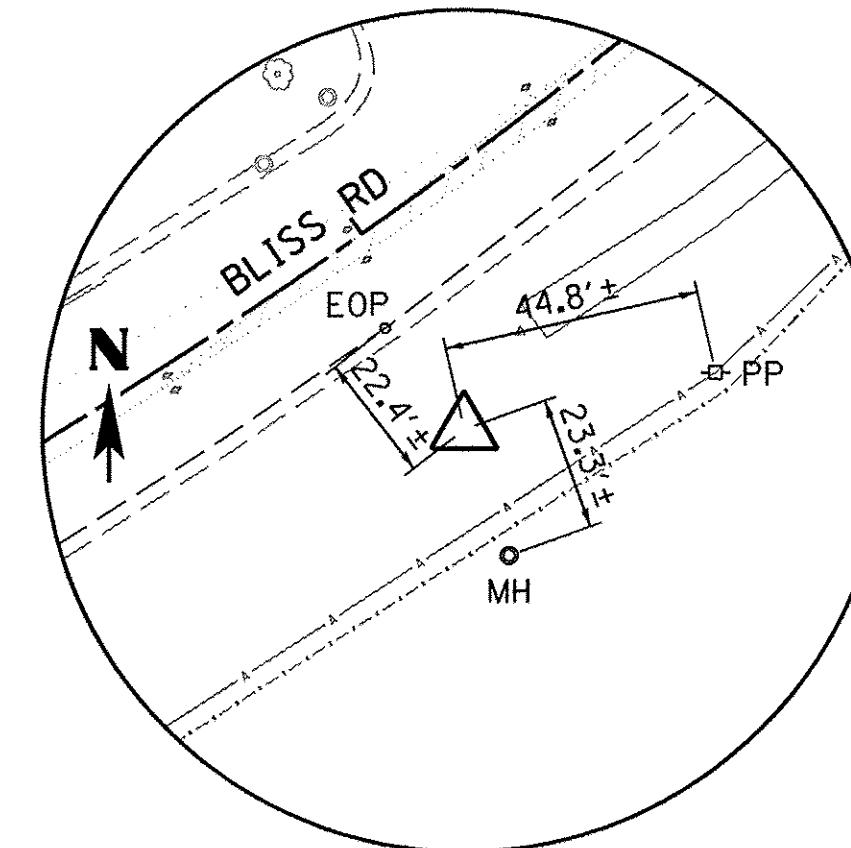
TEMP DRIVEWAY
ENDS
STA. 115+12.17
N 1862342.092
E 955170.205



CONTROL POINT NO. 7



CONTROL POINT NO. 11



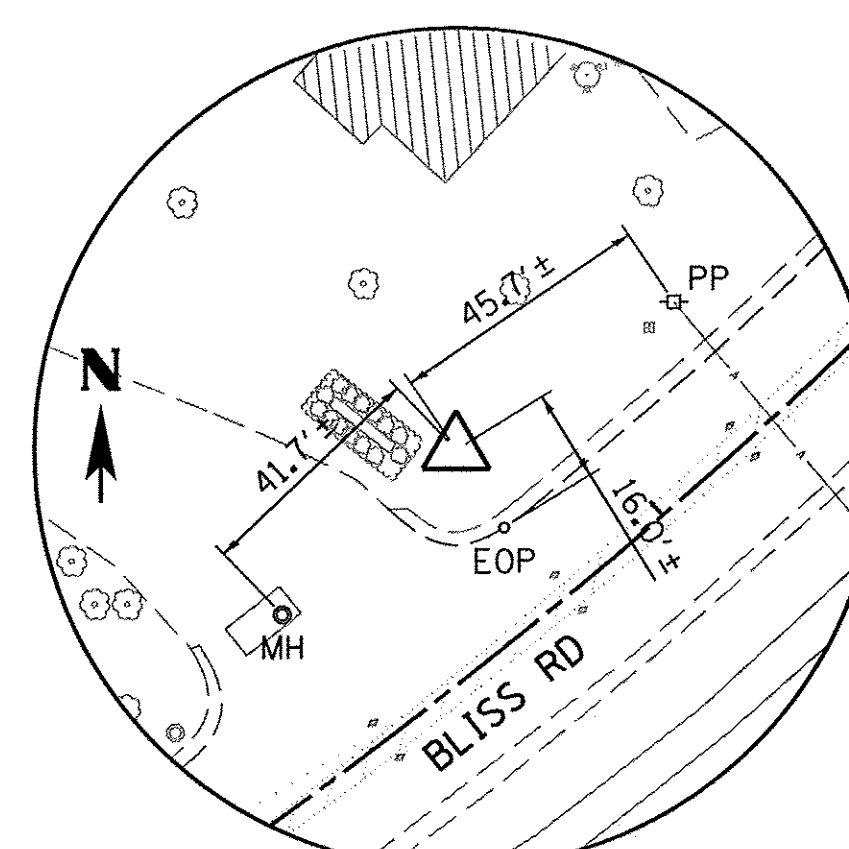
CONTROL POINT NO. 303

PERMANENT SURVEY MARKER

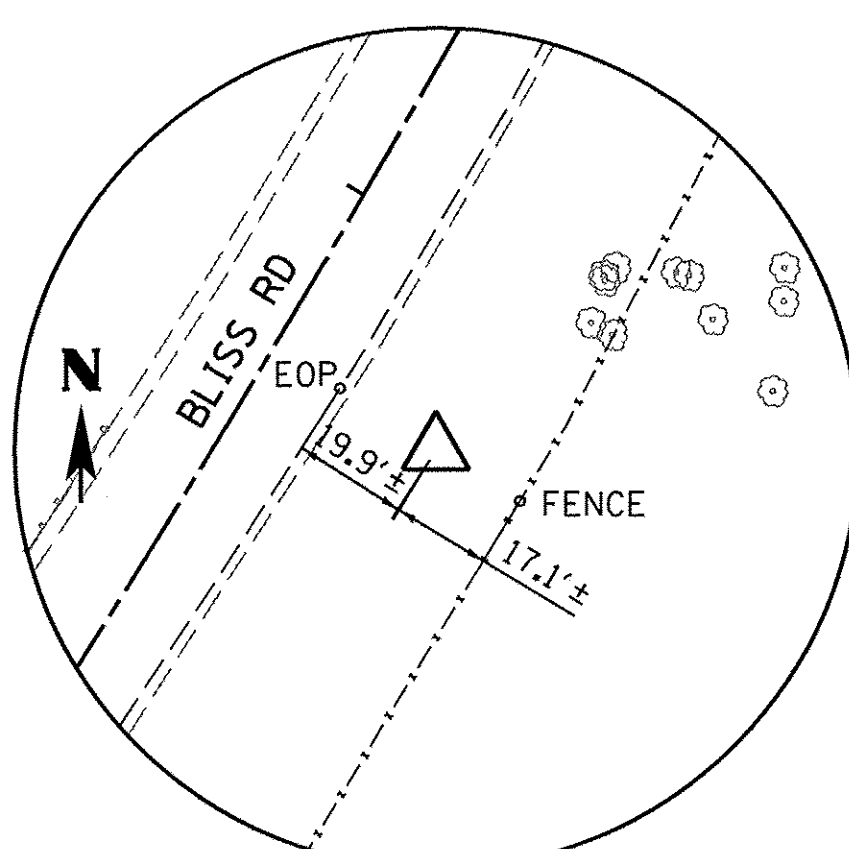
1. PROPOSED PERMANENT SURVEY MARKER SHALL BE AS DETAILED IN THESE PLANS.
2. THE MARKER SHALL BE PLACED IN UNDISTURBED GROUND AT OR NEAR STA. 25+30.00, 50.0' LT. THE FINAL LOCATION SHALL BE APPROVED BY THE ENGINEER.
3. THE ELEVATION SHALL BE FIELD DETERMINED AFTER THE PERMANENT MARKER IS SET.

RIGHT-OF-WAY MONUMENTS

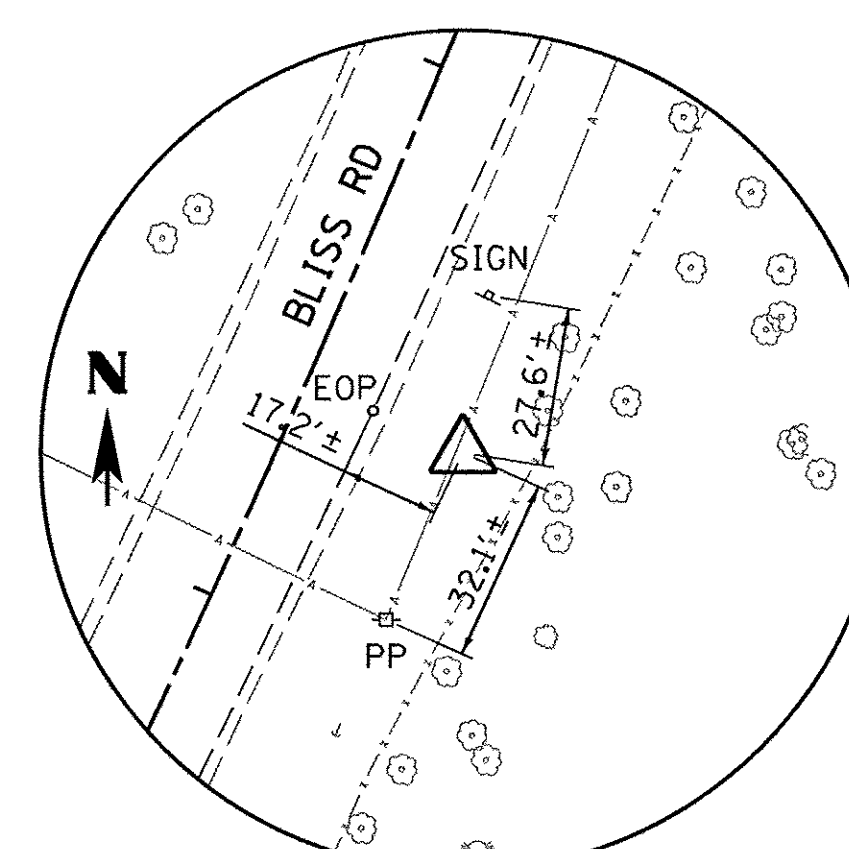
1. REFER TO PLAT OF HIGHWAY ON SHEET 88 FOR COORDINATE TABLE. RIGHT-OF-WAY MONUMENTS ARE LISTED AS POINTS 1 THRU 13.



CONTROL POINT NO. 305



CONTROL POINT NO. 307



CONTROL POINT NO. 308

HORIZONTAL CONTROL POINTS (NAD 83)

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
7	1,862,203.064	954,851.122	704.604	PR.BLISS	11+61.00	34.192' LT	IRON PIPE
11	1,862,111.491	954,877.275	704.986	PR.BLISS	11+39.27	58.530' RT	REBAR
303	1,862,211.535	955,004.044	699.213	PR.BLISS	12+95.00	38.219' RT	REBAR
305	1,862,318.958	955,029.018	695.649	PR.BLISS	13+79.83	32.028' LT	REBAR
307	1,862,659.322	955,378.679	683.761	PR.BLISS	18+68.45	33.383' RT	REBAR
308	1,862,994.675	955,547.613	689.617	PR.BLISS	22+40.26	29.749' RT	REBAR

BENCH MARKS (NAVD 88)

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
AJ3002	1,862,629.168	955,292.562	685.929	PR.BLISS	17+97.83	24.274' LT	REFERENCE MARK IL KANE 9 38 7, PID AJ3002

FILE NAME: Projects\2013\130252 - Bliss - PH11 - road\cvt\1\dgn\Sheet\ATB.dwg

WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:100	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -



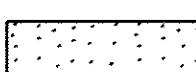
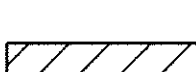








**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES & BENCHMARKS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	31
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

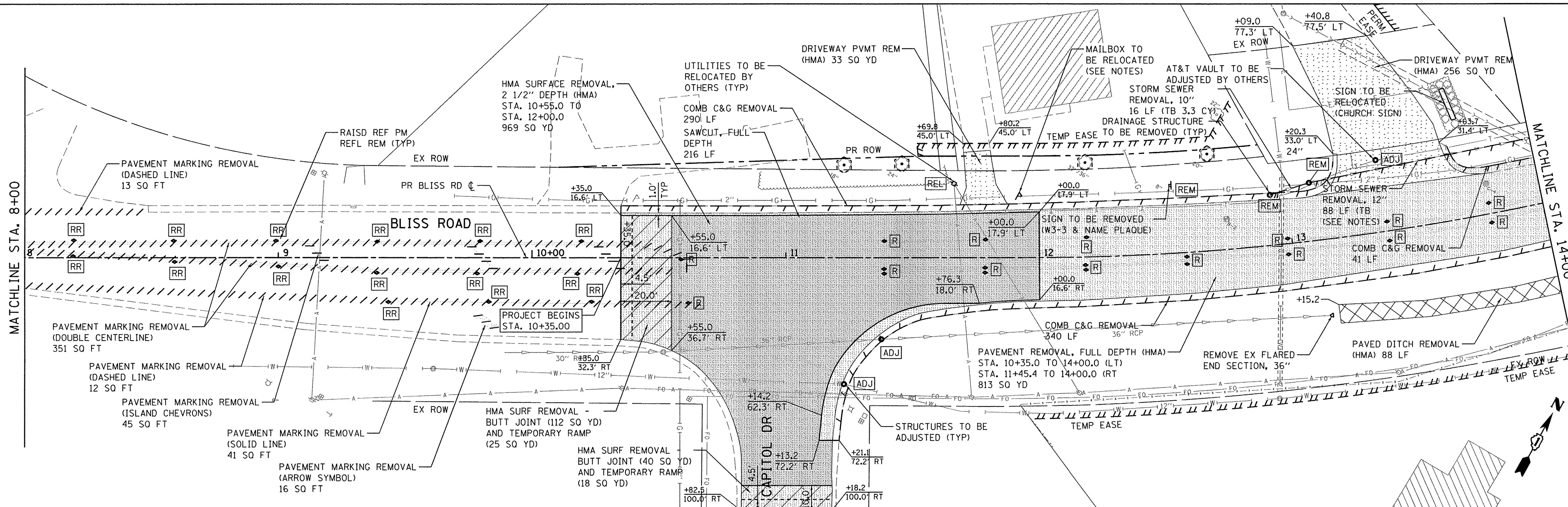
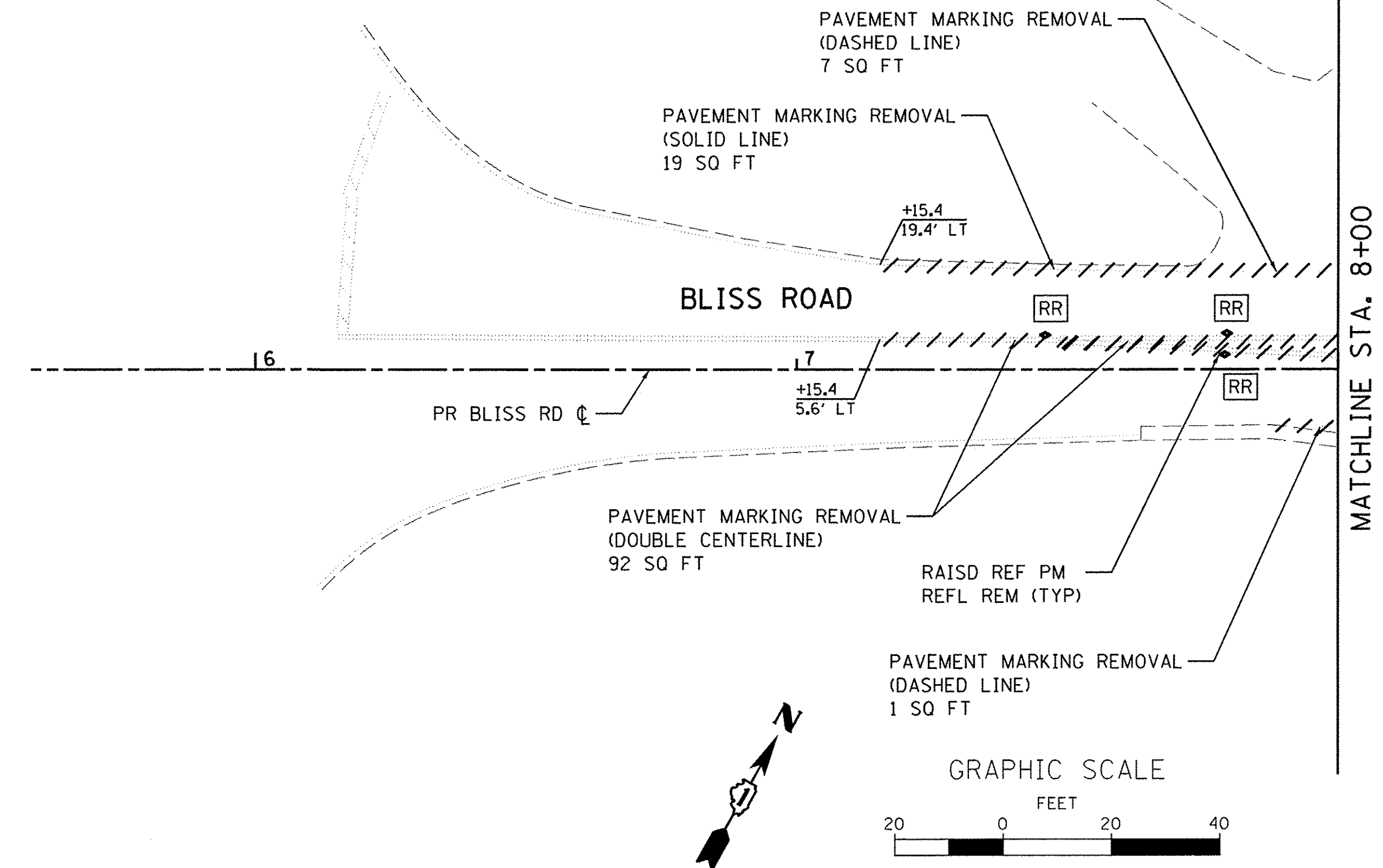
LEGEND

-  PAVEMENT REMOVAL, FULL DEPTH
-  HMA SURFACE REMOVAL, 2" OR 2 1/2"
-  DRIVEWAY PAVEMENT REMOVAL FULL DEPTH (HMA)
-  AGGREGATE SHOULDER REMOVAL (INCLUDED IN EARTH EXCAVATION)
-  LINEAR ITEM REMOVAL AS SPECIFIED
-  SIGN REMOVAL
-  UTILITY POLE RELOCATE (BY OTHERS-SEE UTILITY PLANS)
-  UTILITY REMOVAL OR ADJUSTMENT
-  CLEARING & GRUBBING (SEE NOTE 2)
-  REMOVE RAISED REFLECTIVE MARKER COMPLETE
-  REMOVE REFLECTOR ONLY
-  TREE TRUNK PROTECTION

NOTES

1. THE SIGNS FOR REMOVAL ON THIS PLAN ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. THE KANE COUNTY DIVISION OF TRANSPORTATION (KDOT) SHALL REMOVE ALL SIGNS CALLED OUT FOR REMOVAL. THE CONTRACTOR SHALL COORDINATE ALL SIGN REMOVAL WORK WITH THE ENGINEER.
2. CLEARING & GRUBBING, PER SEC. 201 OF THE STANDARD SPECIFICATIONS, SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
3. WATER MAIN REMOVAL NECESSARY TO MAKE THE PROPOSED CONNECTION TO THE NEW WATER MAIN, SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF THE CONNECTION TO EX. WATERMAIN.
4. SEE UTILITY PLAN & PROFILE SHEETS FOR ALL UTILITY ADJUSTMENTS.
5. THE CONTRACTOR SHALL COORDINATE WITH THE POSTAL SERVICE TO MAINTAIN ACCESS DURING CONSTRUCTION.
6. WHEN STORM SEWER OR CULVERT PIPE HAS BEEN REMOVED UNDER AREAS OF NEW PAVEMENT CONSTRUCTION, THE TRENCH SHALL BE BACKFILL WITH TRENCH BACKFILL TO THE TOP OF THE EXISTING TRENCH.
6. ALL PAVEMENT MARKING REMOVAL BETWEEN STA. 6+00 AND STA. 10+35 SHALL BE WATER BLASTING (WB) AND ALL PAVEMENT MARKING REMOVAL BETWEEN STA. 10+35 AND STA. 28+50.0 SHALL BE GRINDING (GR), UNLESS OTHERWISE NOTED IN THE PLANS.

WHEELER RD



FILE NAME = W:\Projects\2013\1302282 Bliss PH1\cadd\Civil\Drawings\REM_01.dgn



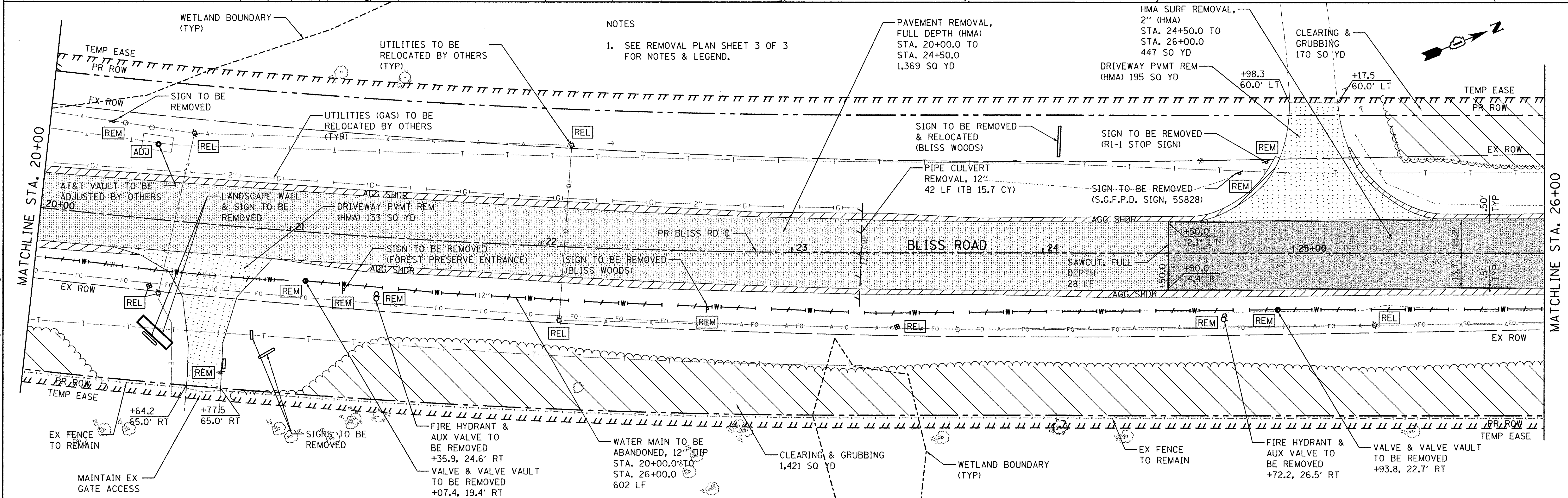
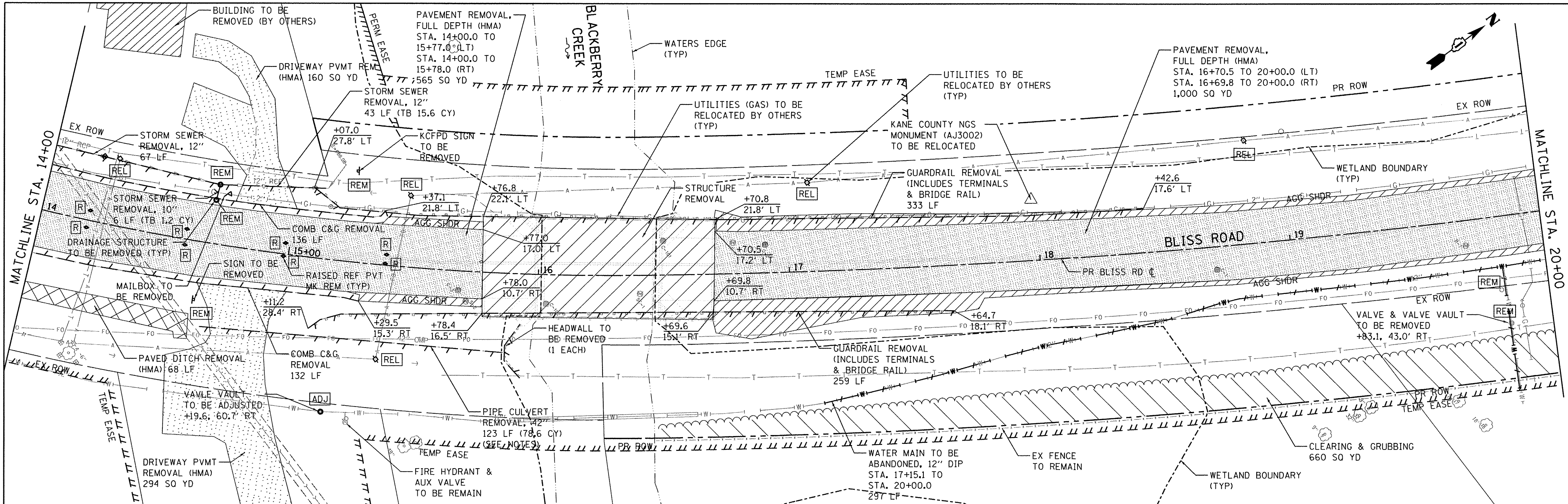
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN	
SCALE: 1"=20'	SHEET NO. 1 OF 4 SHEETS
STA. 7+15.40 TO STA. 14+00.00	

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 32
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				



NOTES
 1. SEE REMOVAL PLAN SHEET 3 OF 3 FOR NOTES & LEGEND.

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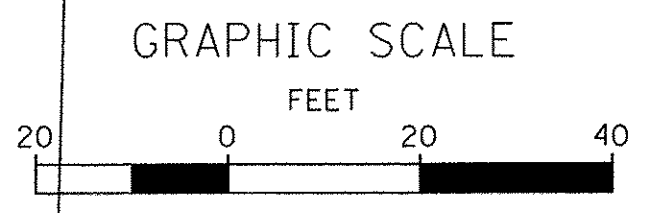
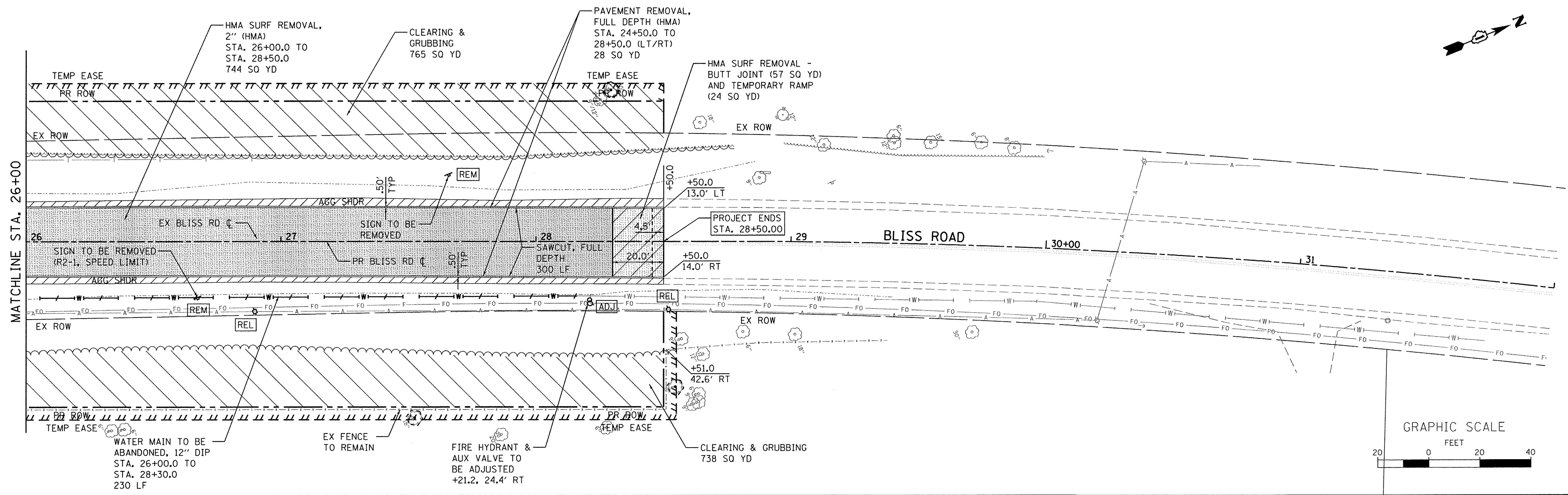
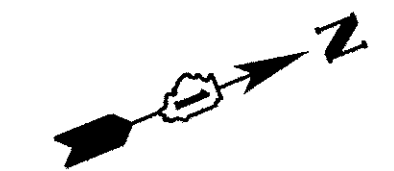
WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nporris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
 SCALE: 1"=20'
 SHEET NO. 2 OF 4 SHEETS
 STA. 14+00.00 TO STA. 26+00.00

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 33
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				



LEGEND

- PAVEMENT REMOVAL, FULL DEPTH
- HMA SURFACE REMOVAL, 2" OR 2 1/2"
- DRIVEWAY PAVEMENT REMOVAL FULL DEPTH (HMA)
- AGGREGATE SHOULDER REMOVAL (INCLUDED IN EARTH EXCAVATION)
- LINEAR ITEM REMOVAL AS SPECIFIED
- SIGN REMOVAL
- TREE TRUNK PROTECTION
- UTILITY POLE RELOCATE (BY OTHERS-SEE UTILITY PLANS)
- UTILITY REMOVAL OR ADJUSTMENT
- CLEARING & GRUBBING (SEE NOTE 2)
- REMOVE RAISED REFLECTIVE MARKER COMPLETE
- REMOVE REFLECTOR ONLY



NOTES

1. THE SIGNS FOR REMOVAL ON THIS PLAN ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. THE KANE COUNTY DIVISION OF TRANSPORTATION (KDOT) SHALL REMOVE ALL SIGNS CALLED OUT FOR REMOVAL. THE CONTRACTOR SHALL COORDINATE ALL SIGN REMOVAL WORK WITH THE ENGINEER.
2. 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.
3. WATER MAIN REMOVAL NECESSARY TO MAKE THE PROPOSED CONNECTION TO THE NEW WATER MAIN, SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF THE CONNECTION TO EX. WATERMAIN.
4. SEE UTILITY PLAN & PROFILE SHEETS FOR ALL UTILITY ADJUSTMENTS.
5. THE CONTRACTOR SHALL COORDINATE WITH THE POSTAL SERVICE TO MAINTAIN ACCESS DURING CONSTRUCTION.
6. WHEN STORM SEWER OR CULVERT PIPE HAS BEEN REMOVED UNDER AREAS OF NEW PAVEMENT CONSTRUCTION, THE TRENCH SHALL BE BACKFILL WITH TRENCH BACKFILL TO THE TOP OF THE EXISTING TRENCH.

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 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nperis	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -


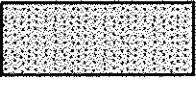
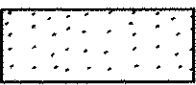
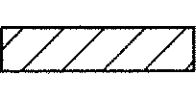
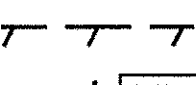






**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

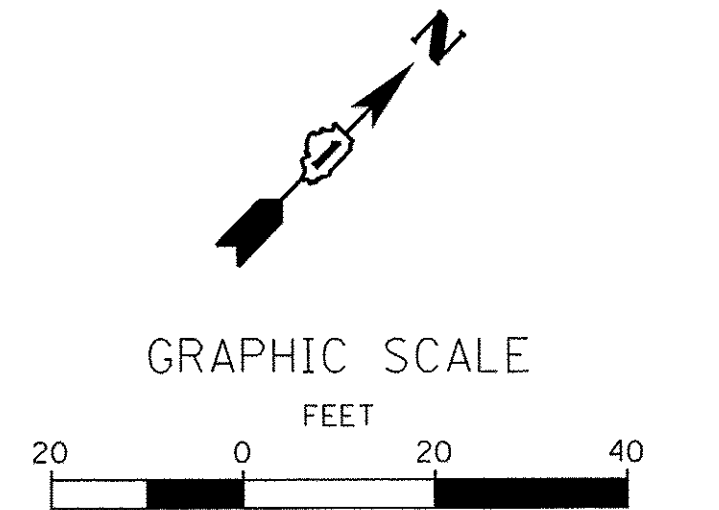
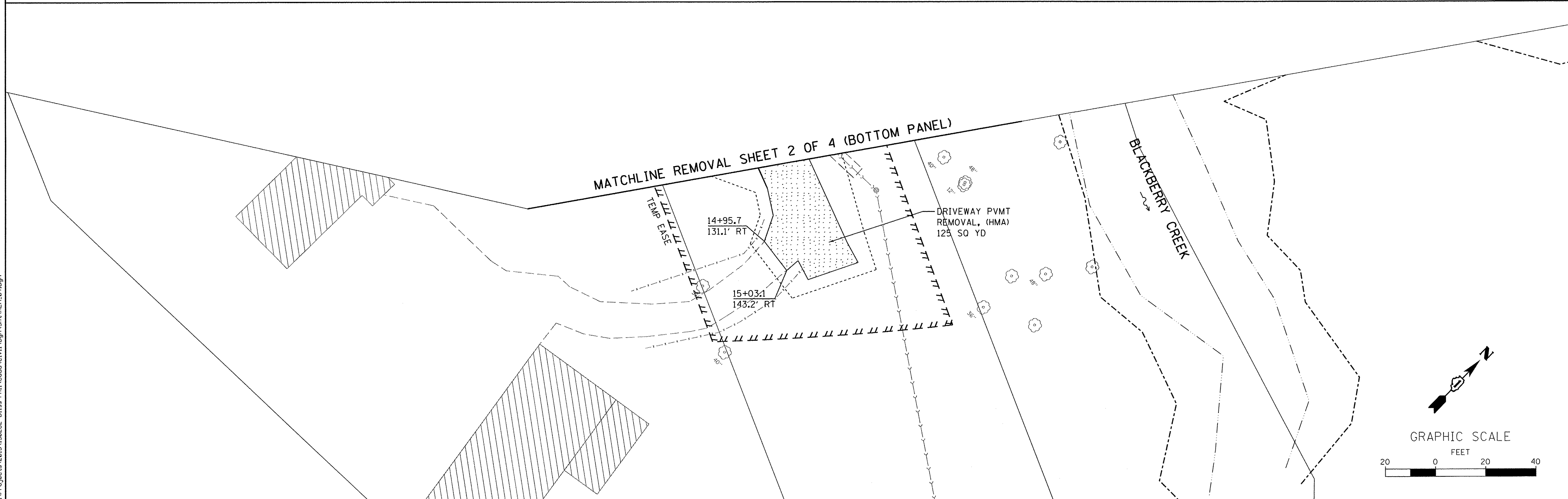
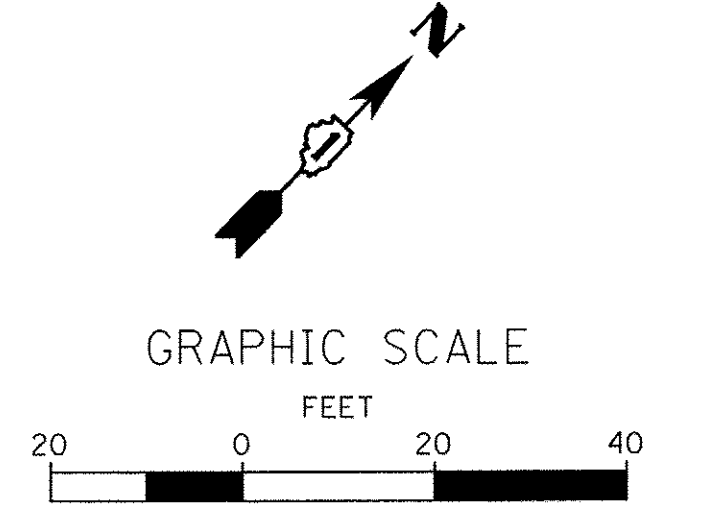
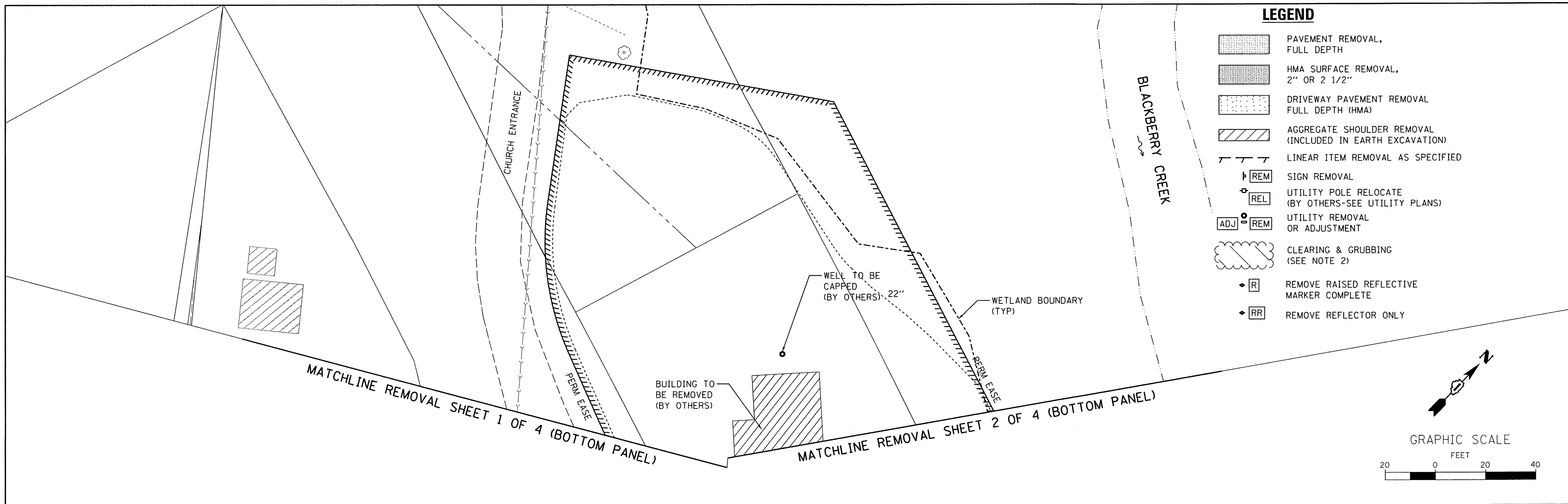
REMOVAL PLAN

SCALE: 1"=20' SHEET NO. 3 OF 4 SHEETS STA. 26+00.00 TO STA. 28+50.00

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 34
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

LEGEND

-  PAVEMENT REMOVAL, FULL DEPTH
-  HMA SURFACE REMOVAL, 2" OR 2 1/2"
-  DRIVEWAY PAVEMENT REMOVAL FULL DEPTH (HMA)
-  AGGREGATE SHOULDER REMOVAL (INCLUDED IN EARTH EXCAVATION)
-  LINEAR ITEM REMOVAL AS SPECIFIED
-  SIGN REMOVAL
-  UTILITY POLE RELOCATE (BY OTHERS-SEE UTILITY PLANS)
-  UTILITY REMOVAL OR ADJUSTMENT
-  CLEARING & GRUBBING (SEE NOTE 2)
-  REMOVE RAISED REFLECTIVE MARKER COMPLETE
-  REMOVE REFLECTOR ONLY



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WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755


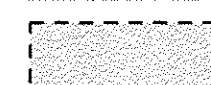
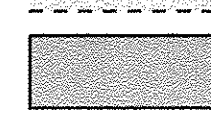
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PLOT SCALE = 1:20	CHECKED - DPB	REVISED -
PLOT DATE = 10/24/2016	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN		
SCALE: 1"=20'	SHEET NO. 4 OF 4 SHEETS	STA. TO STA.

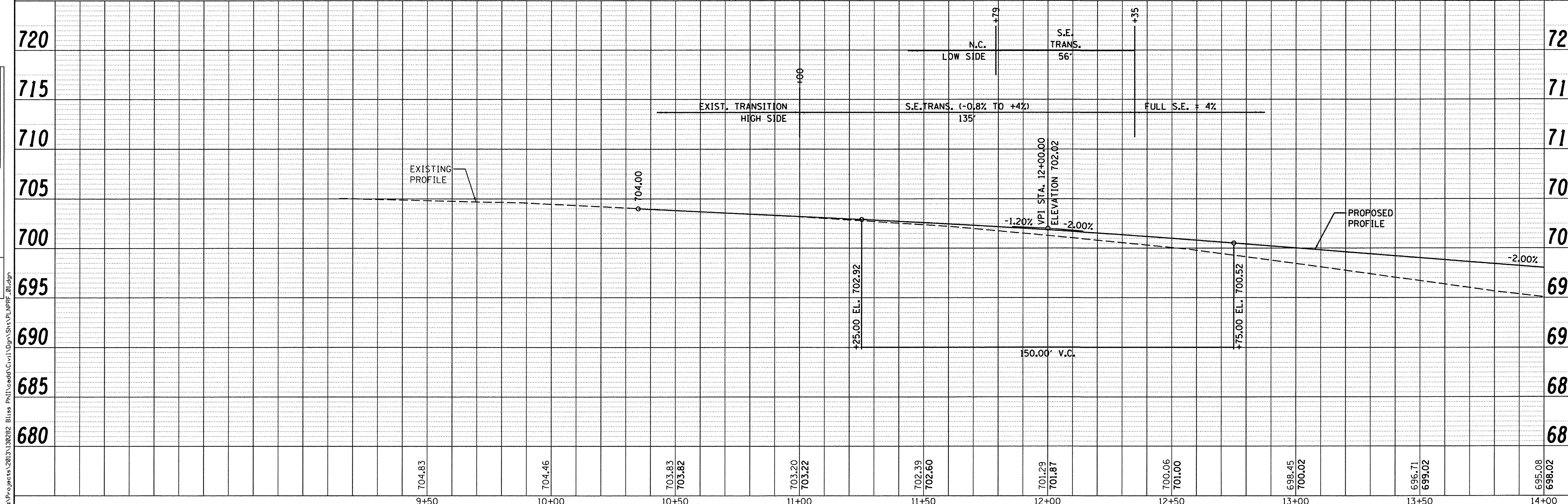
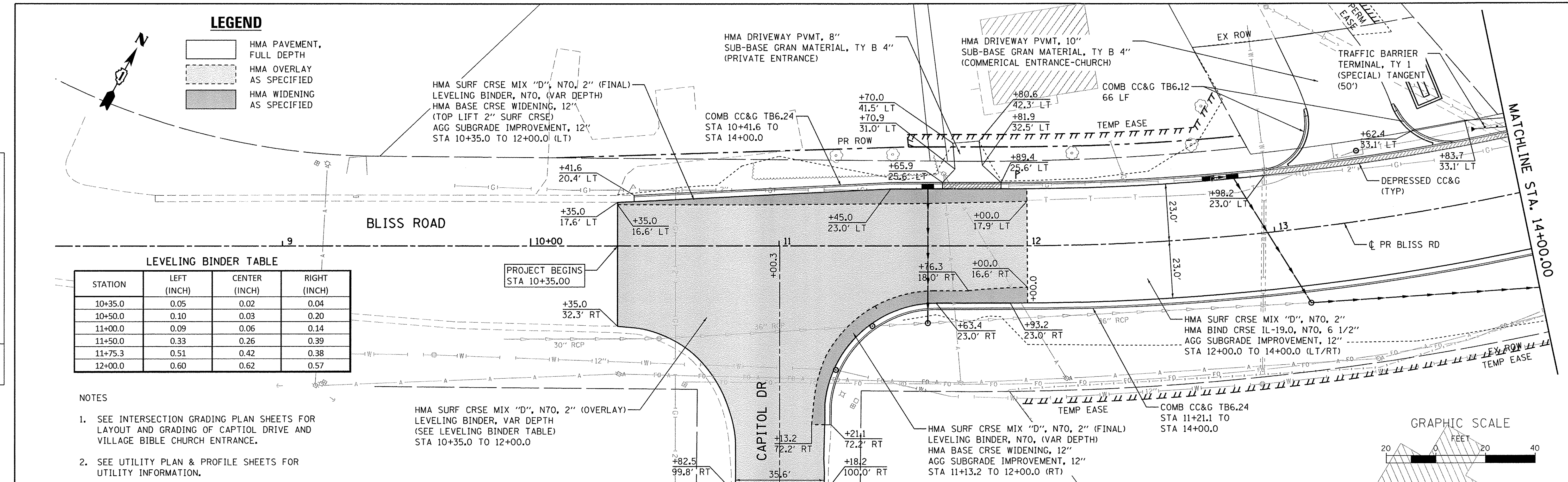
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CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

LEGEND

-  HMA PAVEMENT, FULL DEPTH
-  HMA OVERLAY AS SPECIFIED
-  HMA WIDENING AS SPECIFIED

PLAN	SURVEYED	DATE
NOTE BOOK NO.	BY	
	CHECKED	
	DATE	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	BY	
	CHECKED	
	DATE	



9+50	10+00	10+50	11+00	11+50	12+00	12+50	13+00	13+50	14+00
704.83	704.46	703.83 703.82	703.20 703.22	702.39 702.60	701.29 701.87	700.06 701.01	698.45 700.02	696.71 699.02	695.08 698.02

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 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nparr15	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

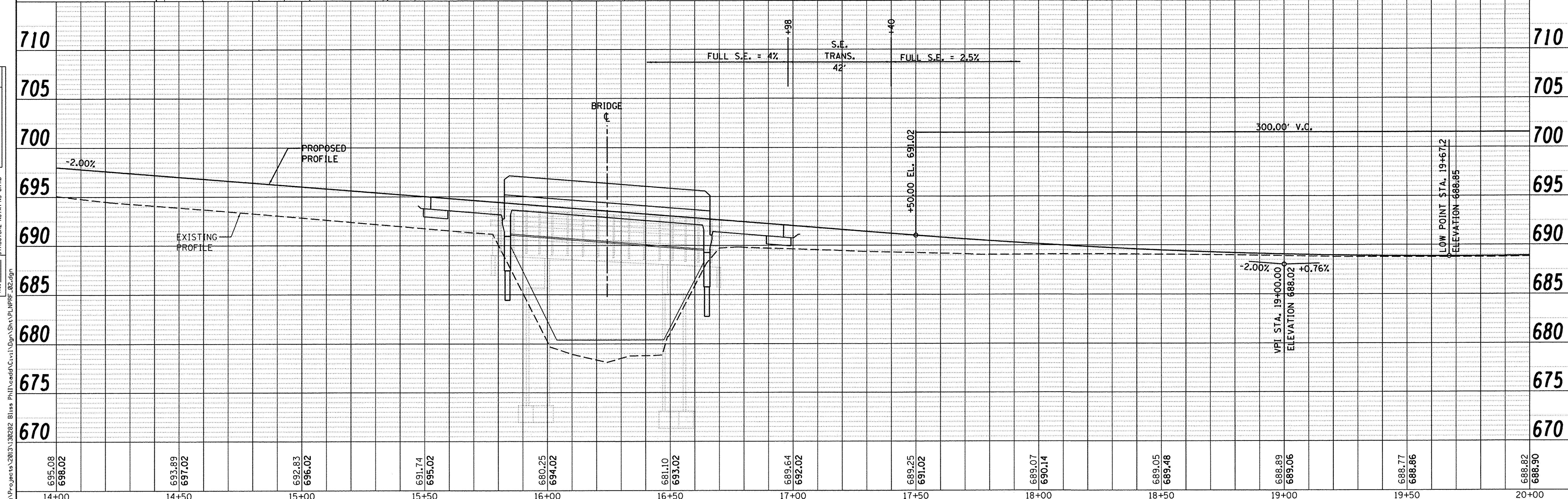
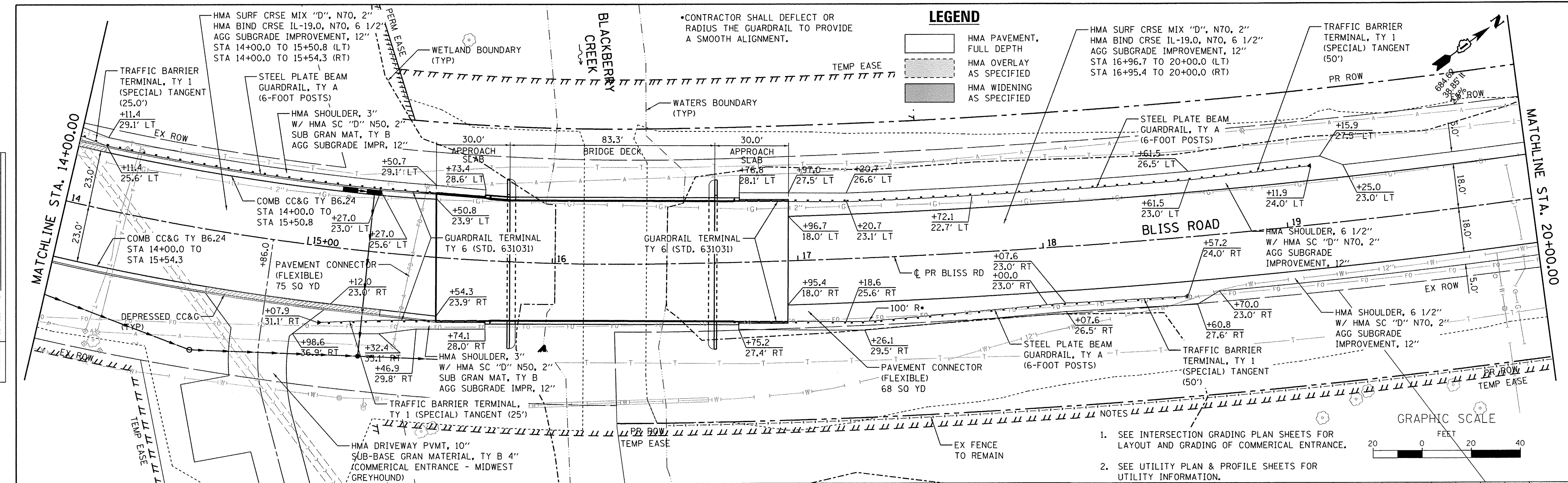
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=20'	SHEET NO. 1 OF 4 SHEETS	STA. 10+35.00 TO STA. 14+00.00
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F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 36
CONTRACT NO. 61D20				ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	BY	DATE
	NOTED		
	PLOTTED		
	CHECKED		
	FILED		
	NO. _____		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
	NOTED		
	PLOTTED		
	CHECKED		
	FILED		
	NO. _____		
	FILE NAME		



695.08 698.02	693.89 697.02	692.83 696.02	691.74 695.02	680.25 694.02	681.10 693.02	689.64 692.02	689.25 691.02	689.07 690.14	689.05 689.48	688.89 689.06	688.77 688.86	688.82 688.90
14+00	14+50	15+00	15+50	16+00	16+50	17+00	17+50	18+00	18+50	19+00	19+50	20+00

WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = npraris	DESIGNED - SBP	REVISED - 10/17/16
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PLLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

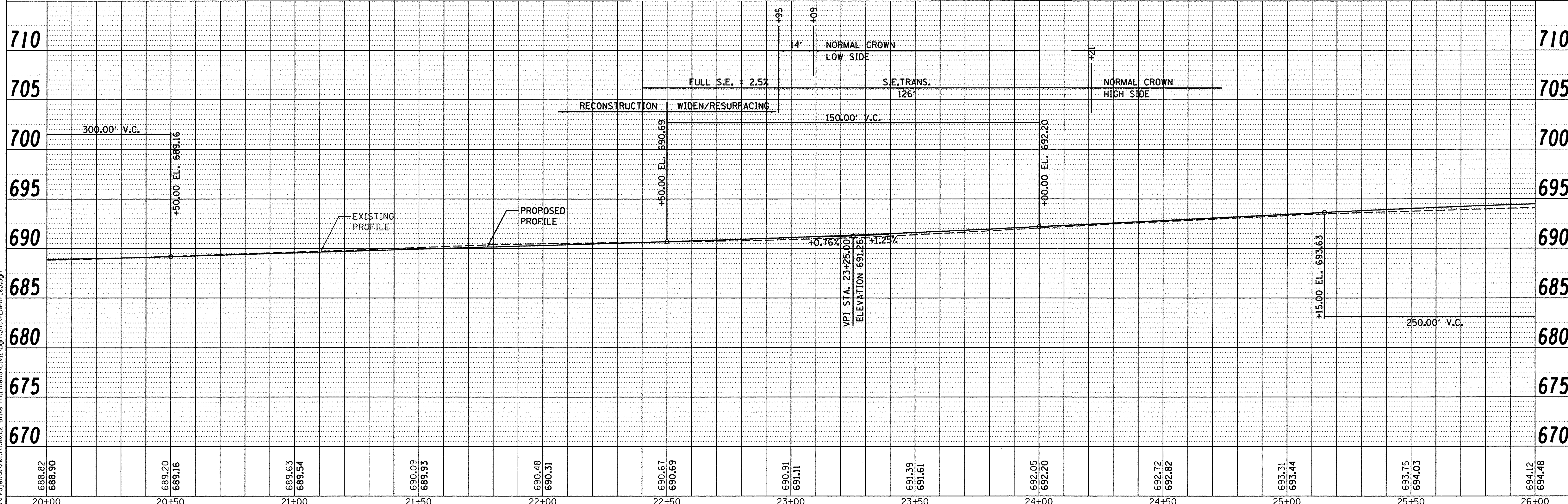
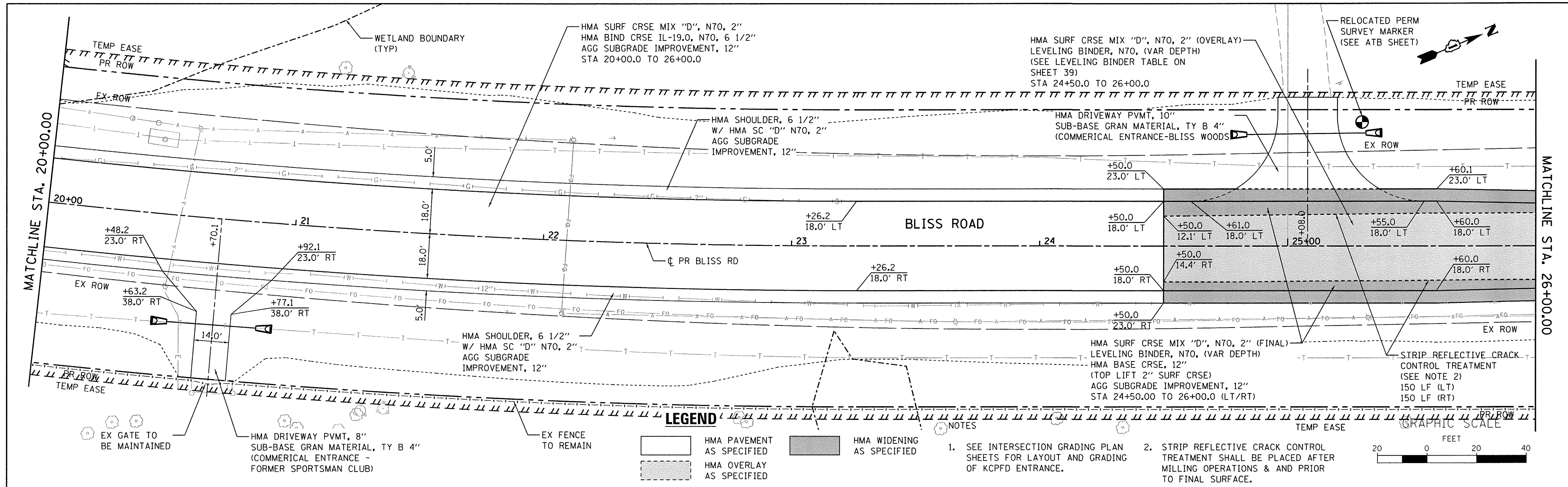
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN & PROFILE			
SCALE: 1"=20'	SHEET NO. 2 OF 4 SHEETS	STA. 14+00.00 TO STA. 20+00.00	

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 37
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

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NOTE BOOK NO.	PLOTTED	BY
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	RT. OF WAY CHECKED	

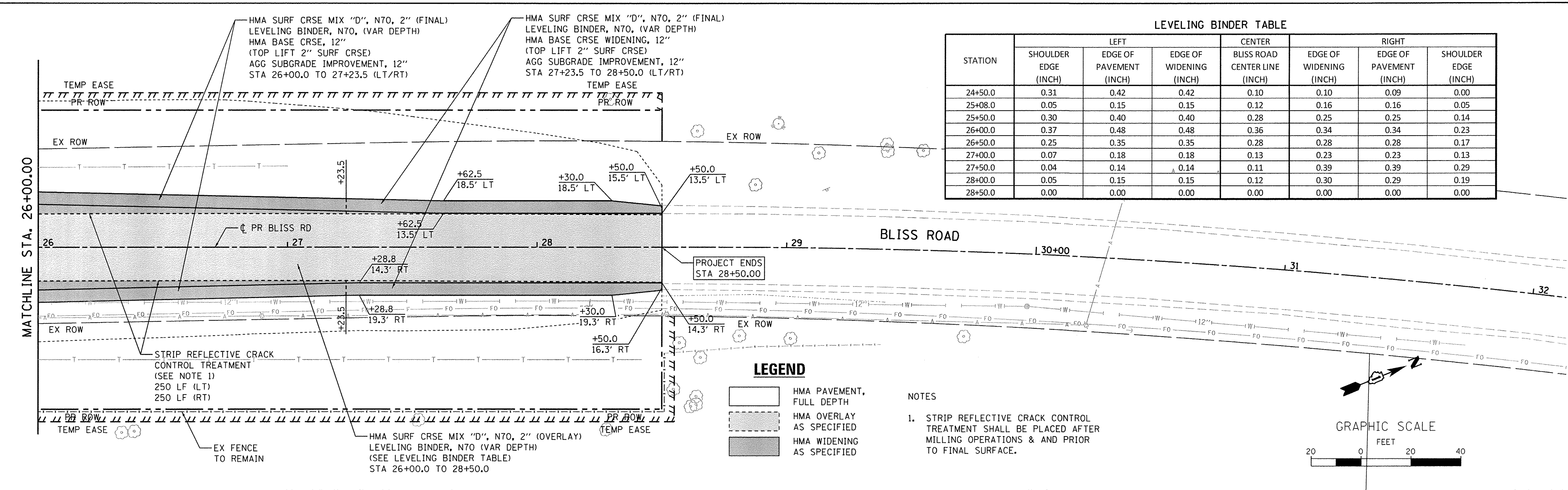
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NOTE BOOK NO.	PLOTTED	BY
STRUCTURE NOTATIONS CHK'D	CHECKED	
	BY	



PLAN	SURVEYED	DATE
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PROFILE	SURVEYED	DATE
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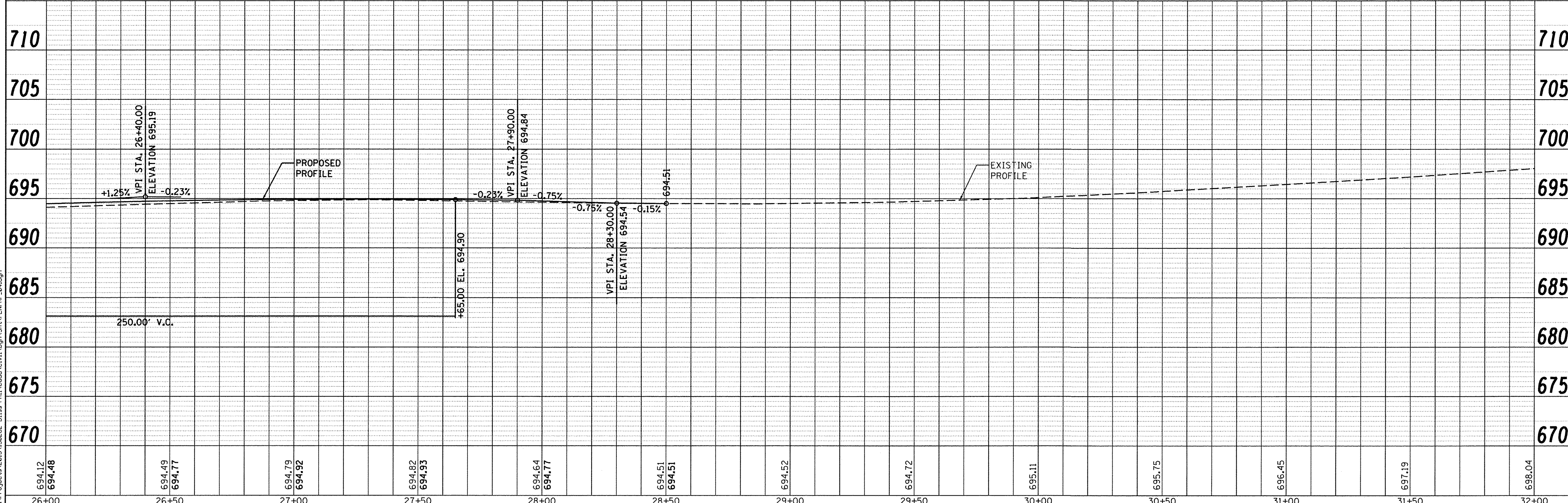
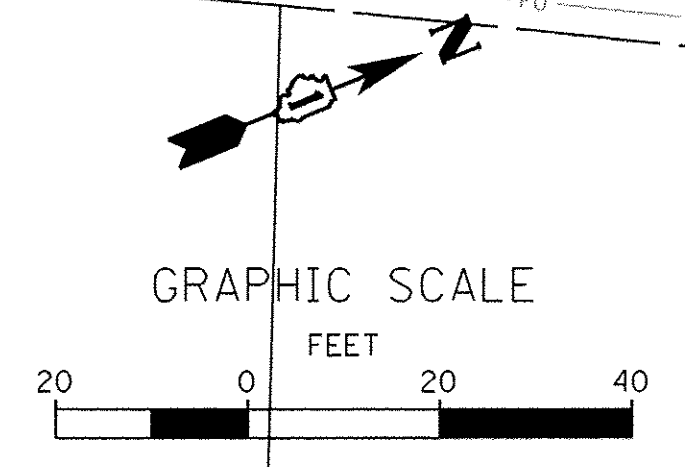
STATION	LEFT			CENTER BLISS ROAD CENTER LINE (INCH)	RIGHT		
	SHOULDER EDGE (INCH)	EDGE OF PAVEMENT (INCH)	EDGE OF WIDENING (INCH)		EDGE OF WIDENING (INCH)	EDGE OF PAVEMENT (INCH)	SHOULDER EDGE (INCH)
24+50.0	0.31	0.42	0.42	0.10	0.10	0.09	0.00
25+08.0	0.05	0.15	0.15	0.12	0.16	0.16	0.05
25+50.0	0.30	0.40	0.40	0.28	0.25	0.25	0.14
26+00.0	0.37	0.48	0.48	0.36	0.34	0.34	0.23
26+50.0	0.25	0.35	0.35	0.28	0.28	0.28	0.17
27+00.0	0.07	0.18	0.18	0.13	0.23	0.23	0.13
27+50.0	0.04	0.14	0.14	0.11	0.39	0.39	0.29
28+00.0	0.05	0.15	0.15	0.12	0.30	0.29	0.19
28+50.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

LEGEND

- HMA PAVEMENT, FULL DEPTH
- HMA OVERLAY AS SPECIFIED
- HMA WIDENING AS SPECIFIED

NOTES

- STRIP REFLECTIVE CRACK CONTROL TREATMENT SHALL BE PLACED AFTER MILLING OPERATIONS & AND PRIOR TO FINAL SURFACE.



694.12	694.48	694.49	694.77	694.79	694.92	694.82	694.93	694.64	694.77	694.51	694.51	694.52	694.72	695.11	695.75	696.45	697.19	698.04
26+00	26+50	27+00	27+50	28+00	28+50	29+00	29+50	30+00	30+50	31+00	31+50	32+00						

WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
DRAWN - NDP	CHECKED - DPB	REVISOR -
DATE - 8/8/16		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN & PROFILE

SCALE: 1"=20' SHEET NO. 4 OF 4 SHEETS STA. 26+00.00 TO STA. 28+50.00

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 39
CONTRACT NO. 61D20				ILLINOIS FED. AID PROJECT

GENERAL NOTES

1. 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).
2. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APR. 1, 2016", "THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES ADOPTED 2010", THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", AND THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
3. THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. THE ENGINEER SHALL DETERMINE THE HOUR OF CLOSURE. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.
4. THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE AND HIS REPRESENTATIVE RESPONSIBLE FOR THE DETOUR SIGNING PRIOR TO THE START OF THE WORK.
5. LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS, WITH THE APPROVAL OF THE ENGINEER.
6. THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH THE DETOUR PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED BY HIM ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THE DETOUR IS IN EFFECT.
8. THE TRAFFIC CONTROL SHOWN ON THE DETOUR PLAN IS THE MINIMUM NECESSARY TO ENSURE THIS ROAD CLOSURE. THE CONTRACTOR SHALL MAKE ALL CHANGES IN TRAFFIC CONTROL THAT IS DEEMED NECESSARY BY THE ENGINEER. ADDITIONS AND DELETIONS OF TRAFFIC CONTROL FOR THIS DETOUR SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, SPECIAL".
9. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE DETOUR IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR, IN A MANNER APPROVED BY THE ENGINEER.
10. ALL DETOUR SIGNING SHALL BE POST MOUNTED.
11. ALL DETOUR SIGNING EXCEPT REGULATORY SIGNS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE SHEETING AND STANDARD BLACK BORDERS. THE FLUORESCENT ORANGE REFLECTIVE SHEETINGS SHALL MEET THE REQUIREMENTS OF SECTION 1091 OF THE STANDARD SPECIFICATIONS. ALL DETOUR SIGNING SHALL BE NEW OR LIKE NEW CONDITION. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE CONDITION OF THE SIGNS.
12. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
13. AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THIS DETOUR SHALL MEET THE REQUIREMENTS FOR TYPE A-LOW INTENSITY FLASHING LIGHTS IN ARTICLE 1106.02 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING THE HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.
14. THE ROAD NAME SIGN SHALL HAVE A BLACK LEGEND ON FLUORESCENT ORANGE REFLECTIVE SHEETING. THE SIGN BLANK SHALL BE A 9" X VARIABLE OR A 12" X VARIABLE WITH DESIGN SERIES C LETTERS. THE CAPITAL LETTERS SHALL BE 6" WITH 5" LOWER CASE.
15. DURING NON-WORKING HOURS AT THE POINT OF ROAD CLOSURE TO ALL TRAFFIC THE CONTRACTOR SHALL PROVIDE A MEANS TO RESTRAIN THE BARRICADES FROM EASY MOVEMENT BY VANDALS. THE CHOSEN METHOD SHALL BE APPROVED BY THE ENGINEER.
16. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT ARTICLE 701.04 OF THE STANDARD SPECIFICATIONS SHALL APPLY.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL DETOUR AND CONSTRUCTION SIGNING, INCLUDING BRUSHING BACK VEGETATION IF DEEMED NECESSARY BY THE ENGINEER.
18. THE FOLLOWING ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD IS APPLICABLE FOR THIS WORK:
STANDARD 701901-05
19. THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO (2) HOURS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.
20. LOCATION OF EXISTING UTILITIES ALONG THE DETOUR ROUTE IS THE RESPONSIBILITY OF THE CONTRACTOR PRIOR TO INSTALLATION OF POST-MOUNTED SIGNAGE.

TEMPORARY DETOUR DURATION

THE CONTRACT DOCUMENTS WILL ALLOW THE ROADWAY CLOSURE AND TEMPORARY DETOUR DETAILED ON THIS SHEET TO REMAIN IN PLACE FOR THE DURATION OF TIME SPECIFIED IN THE BDE SPECIAL PROVISION FOR "WORKING DAYS". 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 CHANGEABLE MESSAGE SIGNS ON THE SOUTH AND NORTH SIDES OF THE PROJECT, ON BLISS ROAD ONLY, TO WARN THE PUBLIC OF THE PENDING CLOSURE. THE MESSAGE SIGNS 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 THE ENTIRE DURATION OF THE CONTRACT OR OTHERWISE APPROVED BY THE ENGINEER. THE CONTRACTOR WILL COORDINATE WITH THE ENGINEER ON THE EXACT PLACEMENT OF THE MESSAGE SIGNS AND THE MESSAGE THAT IS TO BE DISPLAYED. THE MESSAGE MAY PERIODICALLY BE CHANGED BY THE ENGINEER. THERE WILL BE NO ADDITIONAL COMPENSATION FOR CHANGING OF THE MESSAGE(S). THE MESSAGE SIGNS WILL BE PAID FOR AS "CHANGEABLE MESSAGE SIGN" PER CALENDAR MONTH FOR EACH MESSAGE SIGN UTILIZED.

TEMPORARY INFORMATION SIGNING

SPECIALTY SIGNS WILL BE REQUIRED THROUGHOUT THE PROJECT TO INFORM THE PUBLIC OF ADVANCE WARNING OR SPECIAL INSTRUCTIONS. THE CONTRACTOR SHALL ERECT TEMPORARY INFORMATION SIGNS AT THE LOCATIONS SHOWN IN THE MOT PLANS. THE CONTRACTOR WILL COORDINATE WITH THE ENGINEER ON THE EXACT PLACEMENT OF THESE SIGNS. THE SIGNS SHALL BE IN PLACE FOR THE ENTIRE DURATION OF THE CONTRACT UNLESS OTHERWISE SPECIFIED IN THE PLANS OR AS DIRECTED BY THE ENGINEER. THE TEMPORARY SIGNS WILL BE DIMENSIONED AS DETAILED ON THE DETOUR PLAN. THE SIGNING, WHICH INCLUDES POST, MOUNTING AND REMOVAL, WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)".

LOCAL AGENCY 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 CONSTRUCTION	630-584-1170
KANE COUNTY SHERIFF	DONALD E. KRAMER, SHERIFF	630-232-6840
KANE CO. OFFICE OF EMERGENCY MANAGEMENT	DONALD BRYANT, DIRECTOR	630-232-5985
BLACKBERRY TOWNSHIP ROAD DISTRICT	RODNEY FEECE, HWY. COMMISSIONER	630-365-9109
SUGAR GROVE TOWNSHIP HIGHWAY DEPARTMENT	GREG HUGGINS, HWY. COMMISSIONER	630-466-4283
SUGAR GROVE FIRE PROTECTION DISTRICT	WILLIAM PERKINS, CHIEF	630-466-4513
SUGAR GROVE POLICE DEPARTMENT	PAT ROLLINS, CHIEF	630-466-4526
KANELAND COMMUNITY SCHOOL DISTRICT 302	RENEE GOIER, INTERIM SUPERINTENDENT	630-365-5111

DETOUR ON IL RTE 47 - IDOT CONTACT

THE CONTRACTOR WILL BE REQUIRED TO COORDINATE THROUGH THE ENGINEER TO CONTACT THE IDOT ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING OF WORK.

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 BLISS ROAD REMAINS 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. IF REQUIRED, THE CONTRACTOR SHALL FURNISH AND ERECT "ROAD CONSTRUCTION AHEAD" SIGNS (W20-1103 (0)-48) AT ALL SIDE ROADS WITHIN THE LIMITS OF THIS SECTION WHEN WORKING IN THE VICINITY OF THE SIDE ROAD INTERSECTION (SEE TC-10).

WORKING HOURS

THE NORMAL WORKING HOURS FOR CONSTRUCTION OPERATIONS ARE CONSIDERED DAYTIME HOURS FROM 7:00 A.M. TO 6:00 P.M. MONDAY THROUGH SATURDAY. FOR CONSTRUCTION OPERATIONS OUTSIDE THE DESIGNATED NORMAL WORKING HOURS, THE CONTRACTOR MAY REQUEST IN WRITING TO HAVE THE NORMAL HOURS 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.

NEW LANES OPEN SIGNAGE

"CAUTION NEW LANES OPEN STOP HERE" SIGN SHOULD BE INSTALLED WHERE STAGING WILL RESULT IN LANES BEING OPENED CLOSER TO A SIDE STREET AND/OR DRIVEWAY TRAFFIC. THE SIGN SHALL BE INSTALLED AT THE SIDE OF THE ROAD WHERE TRAFFIC IS MOVED CLOSER FOR A PERIOD OF TWO (2) WEEKS UPON INITIATING THAT STAGE.

SUGGESTED SEQUENCE OF CONSTRUCTION OPERATIONS

THE SUGGESTED SEQUENCE OF OPERATIONS AND SUMMARY FOR CONSTRUCTION STAGING DOES NOT, NOR IS IT INTENDED TO, DEPICT ALL WORK THAT WILL BE REQUIRED BY THE CONTRACTOR FOR STAGING OPERATIONS DURING THE CONTRACT. THE SEQUENCE OF OPERATIONS IS GIVEN AS AN AIDE AND GUIDE FOR THE CONTRACTOR'S USE TO ESTABLISH THE NECESSARY GUIDELINES FOR EFFICIENT TRAFFIC OPERATION DURING THE DURATION OF THE CONTRACT.

THE CONTRACTOR MAY WISH TO MAKE REVISIONS OR MODIFICATIONS TO THE SEQUENCE OF CONSTRUCTION OR THE MAINTENANCE OF TRAFFIC PLANS. ALL CHANGES MUST BE SUBMITTED IN WRITING TO THE ENGINEER FOR APPROVAL. REVISIONS IN THE PHASING OF CONSTRUCTION OR MAINTENANCE OPERATIONS, REQUESTED BY THE CONTRACTOR, MAY REQUIRE TRAFFIC CONTROL TO BE INSTALLED IN ACCORDANCE WITH STANDARDS AND/OR DESIGNS OTHER THAN THOSE INCLUDED IN THE PLANS. IF REVISIONS IN THE PHASING OF CONSTRUCTION OR MAINTENANCE OPERATIONS REQUESTED BY THE CONTRACTOR REQUIRES ADDITIONAL SIGNS, FLAGGERS, BARRICADES OR OTHER TRAFFIC CONTROL DEVICES OVER AND ABOVE THOSE SPECIFIED THEY WILL BE AT THE CONTRACTOR'S EXPENSE.

TRAFFIC CONTROL - IDOT STANDARD DRAWINGS

THE CONTRACTOR'S OPERATION MAY REQUIRE WORK THAT WILL NOT BE COMPLETED UNDER THE DETOUR CLOSURE. UNDER THESE CIRCUMSTANCES THE CONTRACTOR WILL COMPLETE THE WORK UTILIZING THE APPLICABLE IDOT TRAFFIC CONTROL STANDARD. THE STANDARD APPLICATION WILL BE APPROVED BY THE ENGINEER. A LIST OF POTENTIAL STANDARD DRAWINGS HAS BEEN INCLUDED IN THE SPECIAL PROVISION FOR "TRAFFIC CONTROL PLAN". THE CONTRACTOR IS ENCOURAGED TO COMPLETE AS MUCH WORK AS PRACTICAL UNDER THE DETOUR CLOSURE. ONLY SPECIFIC STANDARDS WILL BE MEASURED SEPARATELY FOR PAYMENT. ALL OTHER STANDARDS LISTED WILL BE CONSIDERED INCLUDED IN THE LUMP SUM COST FOR "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)".

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WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nporris	DESIGNED - SBP	REVISED -
PLOT SCALE = 1:5	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
DETOUR & GENERAL NOTES**

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

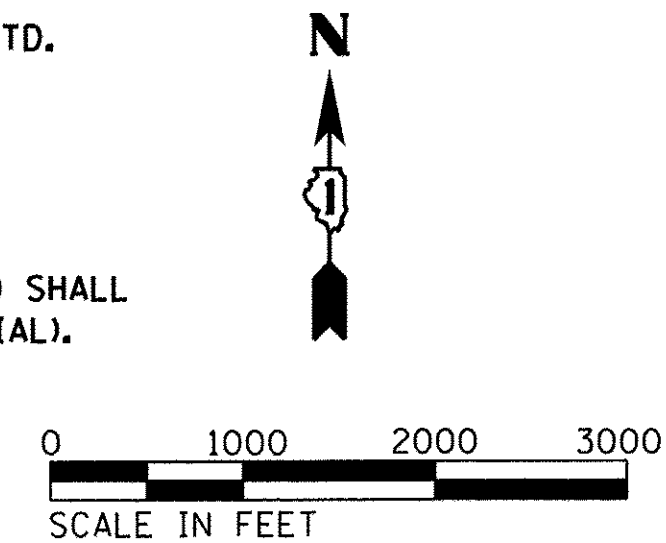
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO.61D20
ILLINOIS FED. AID PROJECT				

SCHEDULE OF DETOUR SIGNS

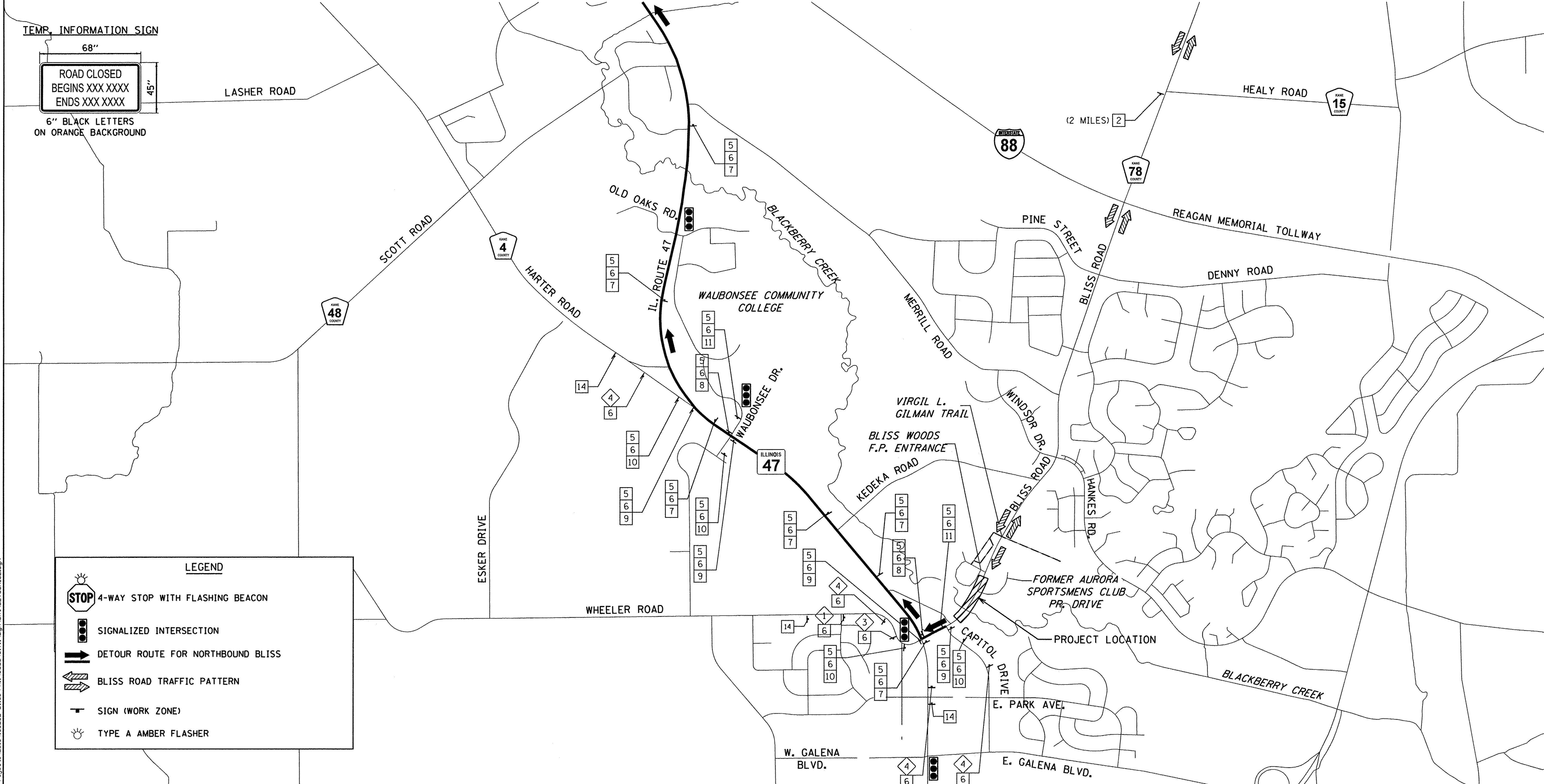
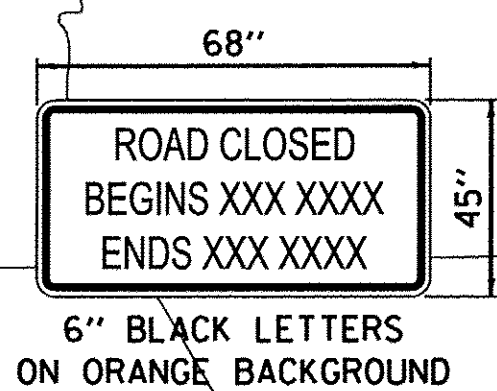
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2		4		6		8		10		12		14	
	W12-I103 48"x48" QUANTITY = 2		W20-2a (0) 48"x48" QUANTITY = 6		SPECIAL (0) VAR. X 12" QUANTITY = 39		M4-9R (0) 30"x24" QUANTITY = 5		M4-9L(MOD) (0) 30"x24" QUANTITY = 5		M4-8a (0) 24"x18" QUANTITY = 1		SPECIAL (0) 60"x36" QUANTITY = 5

SPECIAL DETOUR NOTES

- SEE SHEET 40 FOR DETOUR SPECIFIC GENERAL NOTES.
- SEE MAINTENANCE OF TRAFFIC PLANS FOR ADDITIONAL SIGNAGE AND TRAFFIC CONTROL AT THE INTERSECTION OF IL-47 AND BLISS ROAD.
- IMPLEMENTATION, MAINTENANCE, AND REMOVAL OF THIS DETOUR AS SHOWN SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
- SIGN SPACING SHALL FOLLOW IDOT DISTRICT 1 DETAIL TC-21.
- SIGN NUMBER 14 SHALL BE PLACED 500' IN ADVANCE OF SIGN NUMBER 4.
- CONTRACTOR SHALL INSTALL WARNING SIGNS PER DIST. 1 STD. TC-10 AT THE FOLLOWING LOCATIONS:
 - SB IL-47 AT BLISS ROAD
 - NB IL-47 AT BLISS ROAD
 - EB KEDEKA ROAD AT BLISS ROAD
 - NB CAPITOL DRIVE AT BLISS ROAD
 COST TO INSTALL, MAINTAIN AND REMOVE SIGNS PER TC-10 SHALL BE INCLUDED IN TRAFFIC CONTROL AND PROTECTION, (SPECIAL).



TEMP. INFORMATION SIGN



LEGEND

- 4-WAY STOP WITH FLASHING BEACON
- SIGNALIZED INTERSECTION
- DETOUR ROUTE FOR NORTHBOUND BLISS
- BLISS ROAD TRAFFIC PATTERN
- SIGN (WORK ZONE)
- TYPE A AMBER FLASHER

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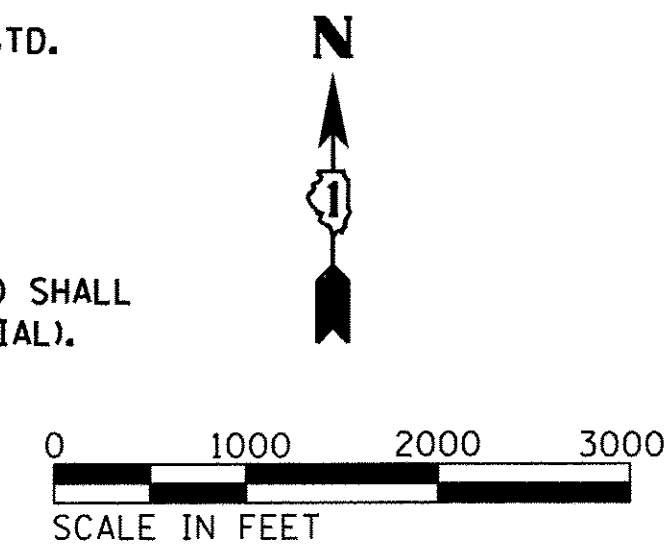
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	PLOT DATE = 10/24/2016	DATE - 8/8/16	REVISED -								

SCHEDULE OF DETOUR SIGNS

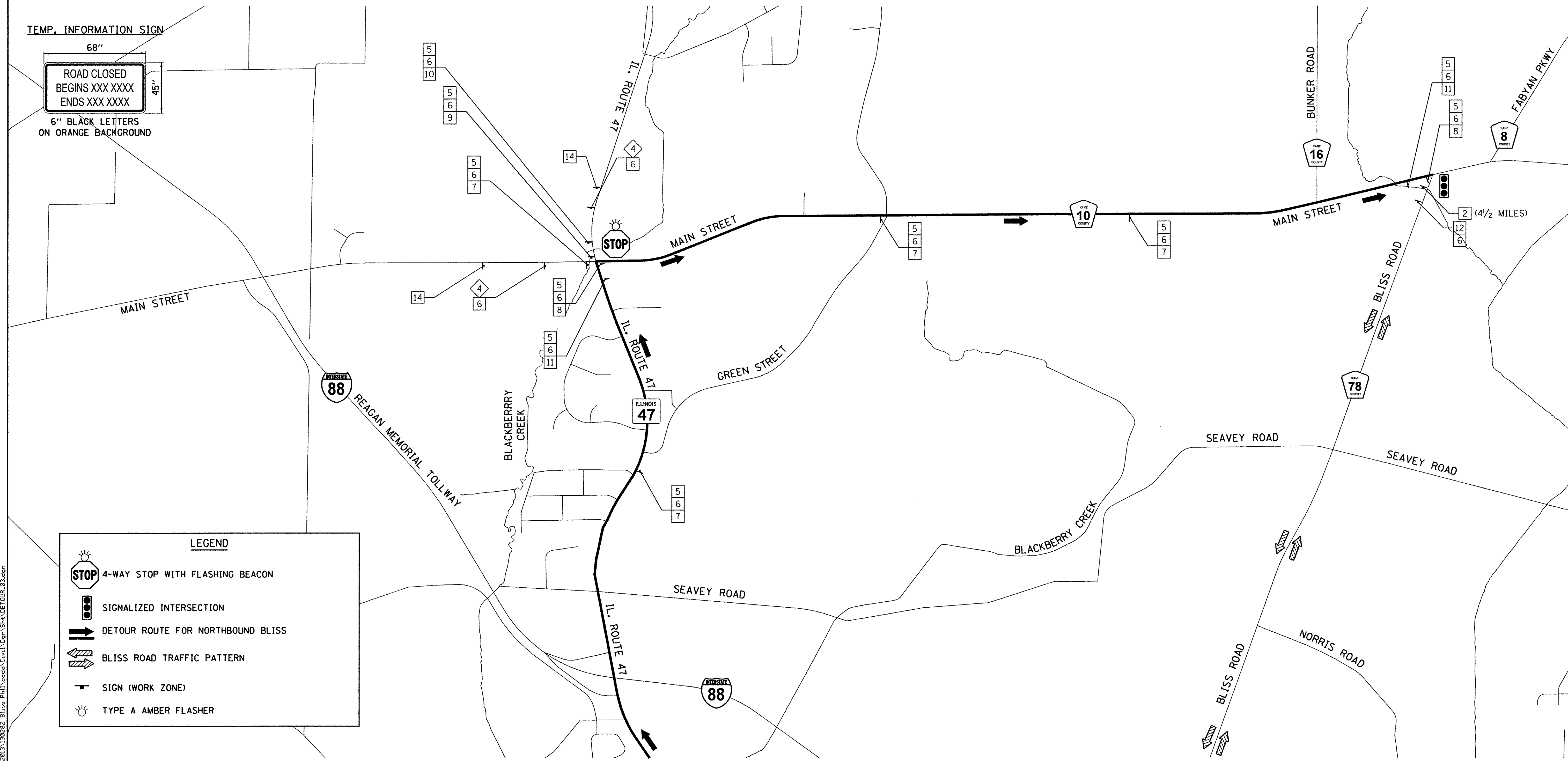
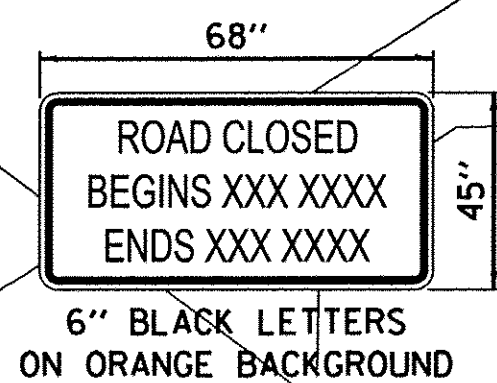
1 W20-3 (0) 48"x48" QUANTITY = 1	3 W20-3 (0) 48"x48" QUANTITY = 1	5 M3-1 (0) 24"x12" QUANTITY = 30	7 M4-9 (0) 30"x24" QUANTITY = 10	9 M4-9L (0) 30"x24" QUANTITY = 5	11 M4-9R(MOD) (0) 30"x24" QUANTITY = 5	13 (TYPE III MOUNTED) R11-2 48"x30" (SEE MOT PLANS)
2 W12-1103 48"x48" QUANTITY = 2	4 W20-2a (0) 48"x48" QUANTITY = 6	6 SPECIAL (0) VAR. X 12" QUANTITY = 39	8 M4-9R (0) 30"x24" QUANTITY = 5	10 M4-9L(MOD) (0) 30"x24" QUANTITY = 5	12 M4-8a (0) 24"x18" QUANTITY = 1	14 SPECIAL (0) 60"x36" QUANTITY = 5

SPECIAL DETOUR NOTES

- SEE SHEET 40 FOR DETOUR SPECIFIC GENERAL NOTES.
- SEE MAINTENANCE OF TRAFFIC PLANS FOR ADDITIONAL SIGNAGE AND TRAFFIC CONTROL AT THE INTERSECTION OF IL-47 AND BLISS ROAD.
- IMPLEMENTATION, MAINTENANCE, AND REMOVAL OF THIS DETOUR AS SHOWN SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
- SIGN SPACING SHALL FOLLOW IDOT DISTRICT 1 DETAIL TC-21.
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- CONTRACTOR SHALL INSTALL WARNING SIGNS PER DIST. 1 STD. TC-10 AT THE FOLLOWING LOCATIONS:
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 COST TO INSTALL, MAINTAIN AND REMOVE SIGNS PER TC-10 SHALL BE INCLUDED IN TRAFFIC CONTROL AND PROTECTION, (SPECIAL).



TEMP. INFORMATION SIGN



LEGEND

- 4-WAY STOP WITH FLASHING BEACON
- SIGNALIZED INTERSECTION
- DETOUR ROUTE FOR NORTHBOUND BLISS
- BLISS ROAD TRAFFIC PATTERN
- SIGN (WORK ZONE)
- TYPE A AMBER FLASHER

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USER NAME = #USER#	DESIGNED - JMR	REVISED -
PLOT SCALE = #SCALE#	DRAWN - JMR	REVISED -
PLOT DATE = 10/24/2016	CHECKED - CMC	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC DETOUR PLAN	
SCALE: 1"=1000'	SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 42
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

PRE-STAGE OPERATIONS

- INSTALL WARNING SIGNS AS SHOWN IN THE APPLICABLE TRAFFIC CONTROL STANDARD.
- CONSTRUCT WATER MAIN AND APPURTENANCES AND ABANDON AND FILL EXISTING WATER MAIN FROM STA. 17+08 TO STA. 28+30. THE WORK SHALL BE COMPLETED UTILIZING TRAFFIC CONTROL STD. 701006 AND 701201.
- INSTALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES.

STAGE 1A OPERATIONS

- INSTALL WARNING SIGNS AS SHOWN ON STAGE 1A MAINTENANCE OF TRAFFIC PLAN.
- SAWCUT PAVEMENT EDGES WHERE REQUIRED. THE WORK SHALL BE COMPLETED UTILIZING TRAFFIC CONTROL STD. 701201 AND 701326.
- EXCAVATE COMPENSATORY STORAGE AREA AS NEEDED. PROVIDE TEMPORARY EROSION CONTROL FOR ALL DISTURBED AREAS AND STOCK PILES.
- REMOVE CONFLICTING RAISED REFLECTIVE PAVEMENT MARKERS FROM STA. 10+50 TO STA. 16+00. THE WORK SHALL BE COMPLETED UTILIZING TRAFFIC CONTROL STD. 701201.
- CONSTRUCT PERMANENT HMA BASE COURSE AND BASE COURSE WIDENING STA. 24+50 TO STA. 28+50.0, LT. THE WORK SHALL BE COMPLETED UTILIZING TRAFFIC CONTROL STD. 701501, 701326 AND SIDE STREETS PER TC-10.
- CONSTRUCT ALL CROSS ROAD STORM SEWERS AND HMA PATCHES SHOWN IN STAGE 1A PLAN. THE WORK SHALL BE COMPLETED UTILIZING TRAFFIC CONTROL STD. 701201.
- CONSTRUCT TEMPORARY PAVEMENT WIDENING AND DITCHES FROM STA. 15+37.2 TO STA. 15+77.0, LT. AND STA. 16+63.3 TO STA. 24+50.0, LT. THE WORK SHALL BE COMPLETED UTILIZING TRAFFIC CONTROL STD. 701501 AND 701326.
- CONSTRUCT TEMPORARY DRIVEWAY ACCESS AND PERMANENT PARKING AREA (BINDER ONLY) FROM STA. 11+30.2 TO STA. 15+00.0, RT. THE WORK SHALL BE COMPLETED UTILIZING TRAFFIC CONTROL STD. 701006 AND 701501. PLACE TEMPORARY BARRIER WALL STA. 112+00.0 TO STA. 114+25.0 (DRIVEWAY BASELINE).
- REMOVE AND RELOCATE EXISTING GUARDRAIL AND TRAFFIC BARRIER TERMINALS STA. 16+70.5 TO STA. 18+00.0, LT., INSTALL RELOCATED GUARDRAIL MARKERS. THE WORK SHALL BE COMPLETED UTILIZING TRAFFIC CONTROL STD. 701501 OR 701326.
- INSTALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES.

STAGE 1B OPERATIONS

- SET UP ONE-DIRECTION DETOUR AND RELATED TEMPORARY STAGE 1B TRAFFIC CONTROL THROUGH THE PROJECT SITE, WHICH INCLUDES THE TEMPORARY SHEET PILING, TEMPORARY CONCRETE BARRIER WALL, SIGNAGE, MESSAGE SIGNS, ARROW BOARDS, DRUMS/BARRICADES, STRIPING, AND ATTENUATORS FROM STA. 6+00 TO 29+00.
- CLOSE TURN LANES ON IL. RTE. 47 AS DETAILED IN THE STAGE 1B TRAFFIC PLANS.
- MAINTAIN TEMPORARY DRIVEWAY ACCESS AND PARKING AREA STA. STA. 11+30.2 TO STA. 15+00.0, RT.
- MOVE TRAFFIC ONTO STAGE 1B LANE CONFIGURATION.
- PLACE ADDITIONAL EROSION CONTROL AS NEEDED.
- REMOVE EXISTING ROADWAY, BRIDGE SHOULDER AND DRIVEWAY PAVEMENT, CURB AND GUTTERS STORM SEWER, GUARDRAILS, CULVERTS LEFT OF CENTERLINE (SEE MOT PLANS SHEETS) STA. 251+00 TO STA. 260+00, LT.
- CONSTRUCT, BRIDGE, SUBGRADE, AGGREGATE BASES, UNDERDRAINS, STORM SEWERS, SHOULDERS, CURB AND GUTTERS AND ROADWAY PAVEMENT WITH BITUMINOUS BINDER TO THE LIMITS SHOWN ON STAGE 1B TRAFFIC PLAN FROM STA. 10+00.0 TO STA. 28+50.0, RT. SHOULDERS BEHIND CURB AND GUTTER WILL HAVE FINAL SURFACE COURSE.
- CONSTRUCT PERMANENT GUARDRAIL FROM STA. 15+08 TO BRIDGE. PERMANENT GUARDRAIL FROM BRIDGE TO STA. 18+57, RT. WILL NOT BE INSTALLED UNTIL STAGE 3. INSTALL TEMPORARY CONCRETE BARRIER AND ATTENUATOR THIS LOCATION.
- INSTALL TEMPORARY HMA RAMPS AT BRIDGE APPROACHES, PAVEMENT DROP-OFFS AND AS NEEDED.
- PLACE TOPSOIL, FINAL TURF, AND LANDSCAPING RIGHT OF CENTERLINE IN ITS ENTIRETY.
- INSTALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES.

STAGE 2 OPERATIONS

- MAINTAIN DETOUR FROM STAGE 1B.
- SET UP TEMPORARY STAGE 2 TRAFFIC CONTROL THROUGH THE PROJECT SITE, WHICH INCLUDES RELOCATION OF THE TEMPORARY CONCRETE BARRIER WALL, SIGNAGE, DRUMS/BARRICADES, STRIPING, AND ATTENUATORS FROM STA. 6+00 TO 29+00.
- REMOVE TEMPORARY DRIVEWAY ACCESS AND PARKING AREA FROM STA. STA. 11+30.2 TO STA. 15+00.0.
- REMOVE TEMPORARY PAVEMENT WIDENING FROM STA. 15+37.2 TO STA. 15+77.0, LT. AND STA. 16+63.3 TO STA. 24+50.0.
- MOVE TRAFFIC ONTO STAGE 2 LANE CONFIGURATION.
- PLACE ADDITIONAL EROSION CONTROL AS NEEDED.
- REMOVE EXISTING ROADWAY AND SHOULDER PAVEMENT, BRIDGE LEFT OF CENTERLINE (SEE MOT PLANS, SHEETS) STA. 10+00 TO STA. 28+50, LT.
- CONSTRUCT, BRIDGE, SUBGRADE, AGGREGATE BASES, UNDERDRAINS, STORM SEWERS, CURB AND GUTTERS, SHOULDERS AND ROADWAY PAVEMENT TO THE LIMITS SHOWN ON STAGE 2 TRAFFIC PLAN FROM STA. 10+00.0 TO STA. 28+50.0, LT.; FINAL HMA SURFACE COURSE FROM STA. 10+00.0 TO STA. 24+50.0 WILL BE PLACED IN STAGE 2. PLACE SHORT-TERM PAVEMENT MARKING.
- CONSTRUCT PERMANENT GUARDRAIL AND TRAFFIC BARRIER TERMINALS FROM STA. 13+85 TO BRIDGE AND BRIDGE TO STA. 19+12, LT.
- PLACE TEMPORARY OR SHORT-TERM PAVEMENT MARKINGS (NO PAINT) PRIOR TO REMOVING STAGE 2 TRAFFIC CONTROL.
- PLACE TOPSOIL, FINAL TURF, AND LANDSCAPING LEFT OF CENTERLINE IN ITS ENTIRETY.
- INSTALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES.

SUB-STAGE 2A OPERATIONS

- SUB-STAGE 2A IS REQUIRED TO EXPEDITE THE WORK FROM STA. 10+00 TO 14+00, LT. TO LIMIT THE DURATION OF THE CLOSURE TO THE VILLAGE BIBLE CHURCH MAIN ENTRANCE AT STA. 13+50 LT.
- ALL WORK IN THIS STAGE WILL BE AS DESCRIBED IN STAGE 2 EXCEPT THE ROADWAY AND DRIVEWAY PAVEMENTS IN THIS SECTION WILL NOT NEED TO HAVE THE FINAL HMA LEVELING AND SURFACE COURSE. THE SURFACE WILL BE COMPLETED AT THE END OF STAGE 2. PROVIDE HMA TEMPORARY RAMPS AS NEEDED.
- UPON THE COMPLETION OF SUB-STAGE 2A, THE TEMPORARY CONCRETE BARRIER WALL WILL BE REMOVED AND/OR RELOCATED TO THE LOCATIONS SHOWN ON THE SUBSTAGE 2A TRAFFIC CONTROL PLAN.
- INSTALL TEMPORARY PAVEMENT MARKINGS (PAINT) AND TRAFFIC CONTROL SIGNING AS DETAILED IN SUB-STAGE 2A AND RE-OPEN THE ENTRANCE.

STAGE 3 OPERATIONS

- REMOVE DETOUR, TEMPORARY BARRIER WALL, TEMPORARY PAVEMENT MARKINGS FOR THE ONE-DIRECTIONAL DETOUR. OPEN LANES FOR 2-WAY TRAFFIC.
- REMOVE TEMPORARY HMA RAMPS AND CONSTRUCT REMAINING BUTT JOINTS.
- CONSTRUCT BITUMINOUS LEVELING IN MILLED AREAS. APPLY BITUMINOUS TACK COAT. MAINTENANCE OF TRAFFIC FOR THE MILLING AND LEVELING OPERATIONS SHALL BE COMPLETED UTILIZING TRAFFIC CONTROL STD. 701501.
- CONSTRUCT HMA LEVELING AND SURFACE COURSE ON BINDER COURSE PREVIOUSLY CONSTRUCTED IN STAGE 1B STA. 10+00.0 TO STA. 28+50.0 AND STAGE 2 FROM STA. 24+50.0 TO 28+50.0. THIS WORK SHALL BE COMPLETED UTILIZING TRAFFIC CONTROL STD. 701501.
- INSTALL PERMANENT GUARDRAIL FROM BRIDGE TO STA. 18+57, RT.
- PLACE ALL PERMANENT PAVEMENT MARKINGS, RECESSED PAVEMENT REFLECTORS AND SIGNAGE STA. 10+00.0 TO STA. 28+50.0. THE WORK SHALL BE COMPLETED UNDER STD. 701501 AND/OR STD. 701311.
- REMOVE REMAINING TRAFFIC CONTROL DEVICES AND SIGNAGE.

STD. 701006

THIS STANDARD SHOULD BE USED FOR, GRADING, SEEDING, AND OTHER MISCELLANEOUS WORK WHICH IS PERFORMED WITHIN 15', BUT NOT CLOSER THAN 2' TO THE EDGE OF THE TRAFFIC LANE. ALL WORK PERFORMED UNDER THIS TRAFFIC CONTROL APPLICATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL), LUMP SUM.

ANTICIPATED MAJOR OPERATIONS FOR APPLICATION OF THIS STANDARD:

- STAGE 1A - WATER MAIN WORK
- STAGE 1A - TEMPORARY DRIVEWAY AND PARKING AREA
- PRE-STAGE, STAGE 1A - SURVEY AND LAYOUT
- PRE-STAGE, STAGE 1A - INSTALLING TRAFFIC CONTROL SIGNS AND OTHER SIGNS

STD. 701011

THIS STANDARD SHOULD BE USED FOR, GRADING, SEEDING, AND OTHER MISCELLANEOUS WORK WHICH IS PERFORMED OFF THE EDGE OF PAVEMENT. ALL WORK PERFORMED UNDER THIS TRAFFIC CONTROL APPLICATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL), LUMP SUM.

ANTICIPATED MAJOR OPERATIONS FOR APPLICATION OF THIS STANDARD:

- STAGE 1A - WATER MAIN WORK
- STAGE 1A - TEMPORARY DRIVEWAY AND PARKING AREA
- PRE-STAGE, STAGE 1A - SURVEY AND LAYOUT
- PRE-STAGE, STAGE 1A - INSTALLING TRAFFIC CONTROL SIGNS AND OTHER SIGNS

STD. 701301

THIS STANDARD WILL APPLY WHEN SHORT TIME WORK OPERATIONS ARE BEING PERFORMED. TYPICAL OPERATIONS ARE BITUMINOUS DENSITY TESTING, APPLICATION OF TEMPORARY PAVEMENT MARKING, MARKING PATCHES, AND MISCELLANEOUS SURVEY OPERATIONS. OPERATIONS PERFORMED UNDER THIS TRAFFIC CONTROL APPLICATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL), LUMP SUM.

ANTICIPATED MAJOR OPERATIONS FOR APPLICATION OF THIS STANDARD:

- STAGE 1A - SAW CUTTING PAVEMENT EDGES
- STAGE 1A/1B/2 - REMOVING PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS
- STAGE 3 MILLING BUTT JOINTS AND SURFACING PAVING OPERATIONS.

STD. 701311

THIS STANDARD SHOULD BE USED ON TWO- LANE, TWO -WAY ROADWAYS FOR PAVEMENT MARKING OPERATIONS. WORK PERFORMED UNDER THIS TRAFFIC CONTROL APPLICATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL), LUMP SUM.

ANTICIPATED MAJOR OPERATIONS FOR APPLICATION OF THIS STANDARD:

- STAGE 3 - PERMANENT PAVEMENT MARKING AND RECESSED REFLECTIVE PAVEMENT MARKERS.

STD. 701501

THIS STANDARD IS APPROPRIATE FOR USE WHEN A LANE CLOSURE IS REQUIRED FOR A MAJOR WORKING OPERATION. TRAFFIC CONTROL DEVICES SHALL BE SET UP AS APPLICABLE AS SHOWN ON HIGHWAY STANDARD 701501. WORK PERFORMED UNDER THIS TRAFFIC CONTROL APPLICATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL), LUMP SUM.

ANTICIPATED MAJOR OPERATIONS FOR APPLICATION OF THIS STANDARD:

- STAGE 1A - TEMPORARY PAVEMENT, HMA BASE COURSE AND BASE COURSE WIDENING.
- STAGE 1A - STORM SEWER CROSSINGS AND HMA PATCHING
- STAGE 1A - RELOCATE EXISTING GUARD RAIL AND TRAFFIC TERMINAL BARRIERS
- STAGE 3 - INSTALL PROPOSED GUARD RAIL AND TRAFFIC TERMINAL BARRIERS

STD. 701901

THIS STANDARD SHOULD BE USED AT ALL LOCATIONS WHERE TEMPORARY BARRIERS ARE REQUIRED. PROVIDING TRAFFIC CONTROL APPLICATIONS INCLUDED IN THESE STANDARDS, UNLESS OTHERWISE SPECIFIED IN THE PLANS, WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION, (SPECIAL), LUMP SUM.

STD. 704001

THIS STANDARD SHOULD BE USED FOR TRAFFIC CONTROL DEVICES AT ALL LOCATIONS FOR ALL OF CONSTRUCTION.

ANTICIPATED MAJOR OPERATIONS FOR APPLICATION OF THIS STANDARD:

- STAGE 1B, 2, 2A - TEMPORARY CONCRETE BARRIER STA. 11+93 TO STA. 24+82.

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WBK engineering
WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nporris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:5	DRAWN - SBP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

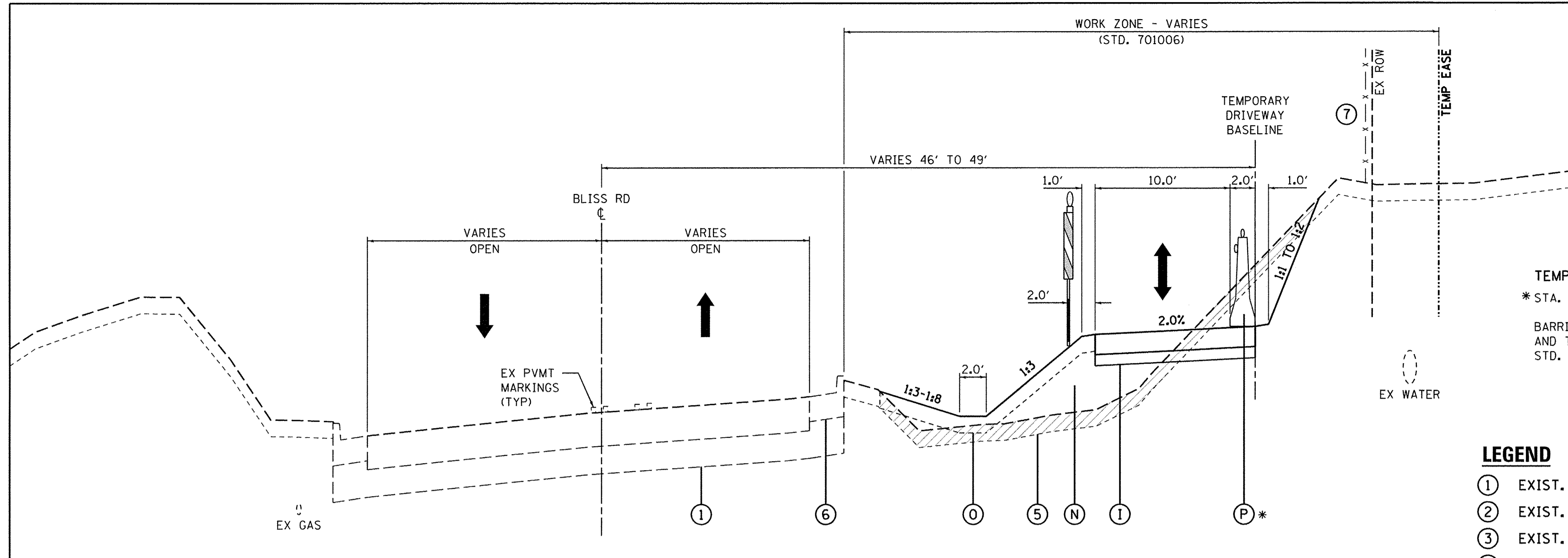
**MAINTENANCE OF TRAFFIC
 SUGGESTED SEQUENCE OF CONSTRUCTION OPERATIONS**

SCALE: SHEET NO. 1 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	43
CONTRACT NO.61D20				
ILLINOIS FED. AID PROJECT				

STAGE 1A NOTES

SEE SHEET 43 FOR MAINTENANCE OF TRAFFIC STAGING NOTES.



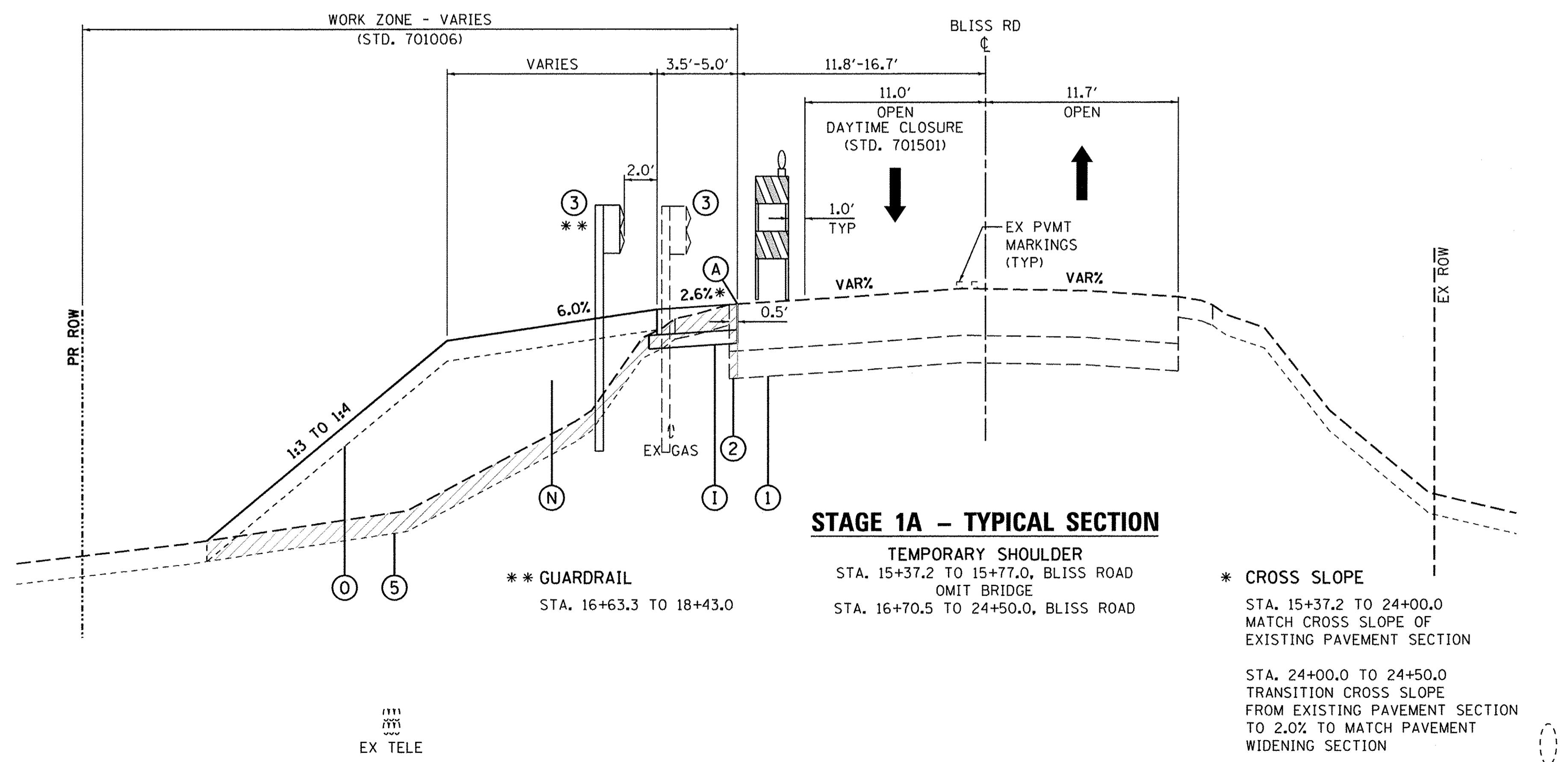
STAGE 1A - TYPICAL SECTION
TEMPORARY DRIVEWAY

TEMPORARY BARRIER WALL
* STA. 112+00.0 TO 114+25.0, DRIVEWAY BASELINE
BARRIER WALL MARKERS SHALL BE SPACED ON 25' C-C AND THERE SHALL BE 2 PER EACH LOCATION. SEE IDOT STD. 704001 AND STD. 782006.

LEGEND

- ① EXIST. PAVEMENT STRUCTURE
- ② EXIST. PAVEMENT AND/OR SHOULDER STRUCTURE - TO BE REMOVED
- ③ EXIST. GUARDRAIL - TO BE HORIZONTALLY ADJUSTED
- ④ EXIST. GUARDRAIL - TO BE REMOVED
- ⑤ EXIST. TOPSOIL - TO BE REMOVED
- ⑥ EXIST. CURB & GUTTER
- ⑦ EXIST. FENCE - TO REMAIN

- Ⓐ SAW CUT - FULL DEPTH
- Ⓑ PROP. HMA BINDER COURSE
- Ⓒ PROP. HMA SURFACE COURSE
- Ⓓ PROP. HMA SHOULDER
- Ⓔ PROP. AGGREGATE SHOULDER
- Ⓕ PROP. AGGREGATE SUBGRADE
- Ⓖ PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A W/GUARDRAIL MKRS.
- Ⓗ PROP. GUARDRAIL/BARRIER WALL REFLECTIVE MARKERS
- Ⓘ 7 1/4" TEMPORARY PAVEMENT W/4" SUBBASE GRANULAR MATERIAL
2" HMA SURFACE COURSE, MIX D, N70
5 1/4" HMA BINDER COURSE, IL-19.0
4", SUBBASE GRANULAR MATERIAL, TYPE B (PAID SEPARATELY)
- Ⓝ PROP. TEMPORARY SHEET PILING
- Ⓚ PROP. TEMPORARY PAVEMENT MARKING LINE (NO PAINT ON FINAL SURFACES)
- Ⓛ PROP. BITUMINOUS SURFACE REMOVAL
- Ⓜ PROP. STRUCTURAL EMBANKMENT
- Ⓝ PROP. SHOULDER EMBANKMENT
- Ⓞ PROP. TOPSOIL, SEEDING AND EROSION CONTROL BLANKET
- Ⓟ PROP. TEMPORARY CONCRETE BARRIER W/BARRIER WALL MKRS., TY C
- Ⓠ PROP. HMA LEVELING BINDER
- Ⓡ PROP. CONCRETE CURB & GUTTER, TY B6-24
- Ⓢ PROP. PIPE UNDERDRAIN
- Ⓣ PROP. UNDERCUT
- Ⓤ PROP. TOPSOIL PLACEMENT



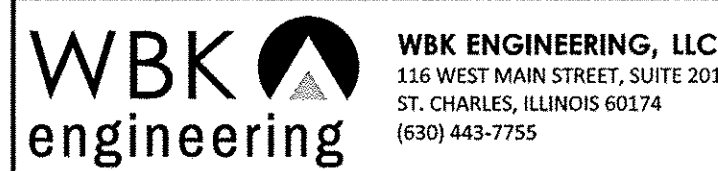
STAGE 1A - TYPICAL SECTION
TEMPORARY SHOULDER
STA. 15+37.2 TO 15+77.0, BLISS ROAD
OMIT BRIDGE
STA. 16+70.5 TO 24+50.0, BLISS ROAD

** GUARDRAIL
STA. 16+63.3 TO 18+43.0

* CROSS SLOPE
STA. 15+37.2 TO 24+00.0
MATCH CROSS SLOPE OF
EXISTING PAVEMENT SECTION

STA. 24+00.0 TO 24+50.0
TRANSITION CROSS SLOPE
FROM EXISTING PAVEMENT SECTION
TO 2.0% TO MATCH PAVEMENT
WIDENING SECTION

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USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:5	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - SBP/DPB	REVISED -
	DATE - 8/8/16	REVISED -

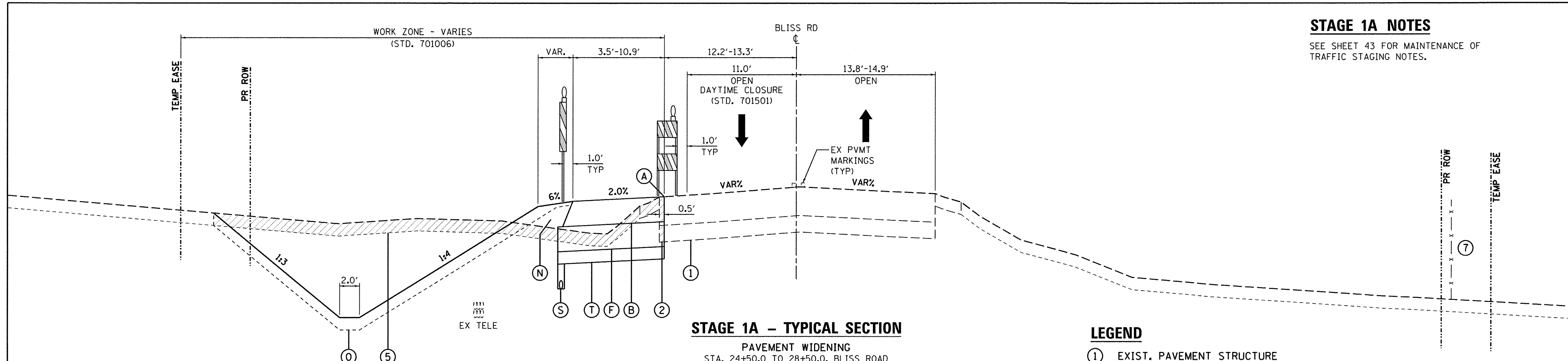
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC	
TYPICAL SECTIONS - STAGE 1A	
SCALE:	SHEET NO. 2 OF 9 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	44
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

STAGE 1A NOTES

SEE SHEET 43 FOR MAINTENANCE OF TRAFFIC STAGING NOTES.



STAGE 1A - TYPICAL SECTION

PAVEMENT WIDENING
STA. 24+50.0 TO 28+50.0, BLISS ROAD



LEGEND

- ① EXIST. PAVEMENT STRUCTURE
- ② EXIST. PAVEMENT AND/OR SHOULDER STRUCTURE - TO BE REMOVED
- ③ EXIST. GUARDRAIL - TO BE HORIZONTALLY ADJUSTED
- ④ EXIST. GUARDRAIL - TO BE REMOVED
- ⑤ EXIST. TOPSOIL - TO BE REMOVED
- ⑥ EXIST. CURB & GUTTER
- ⑦ EXIST. FENCE - TO REMAIN

- (A) SAW CUT - FULL DEPTH
- (B) PROP. HMA BINDER COURSE
- (C) PROP. HMA SURFACE COURSE
- (D) PROP. HMA SHOULDER
- (E) PROP. AGGREGATE SHOULDER
- (F) PROP. AGGREGATE SUBGRADE
- (G) PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A W/GUARDRAIL MKRS.
- (H) PROP. GUARDRAIL/BARRIER WALL REFLECTIVE MARKERS
- (I) 7/4" TEMPORARY PAVEMENT W/4" SUBBASE GRANULAR MATERIAL
2" HMA SURFACE COURSE, MIX D, N70
5/4" HMA BINDER COURSE, IL-19.0
4", SUBBASE GRANULAR MATERIAL, TYPE B (PAID SEPARATELY)
- (J) PROP. TEMPORARY SHEET PILING
- (K) PROP. TEMPORARY PAVEMENT MARKING LINE (NO PAINT ON FINAL SURFACES)
- (L) PROP. BITUMINOUS SURFACE REMOVAL
- (M) PROP. STRUCTURAL EMBANKMENT
- (N) PROP. SHOULDER EMBANKMENT
- (O) PROP. TOPSOIL, SEEDING AND EROSION CONTROL BLANKET
- (P) PROP. TEMPORARY CONCRETE BARRIER W/BARRIER WALL MKRS., TY C
- (Q) PROP. HMA LEVELING BINDER
- (R) PROP. CONCRETE CURB & GUTTER, TY B6-24
- (S) PROP. PIPE UNDERDRAIN
- (T) PROP. UNDERCUT
- (U) PROP. TOPSOIL PLACEMENT

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WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
	DRAWN - NDP	REVISED -
PLOT SCALE = 1:5	CHECKED - SBP/DPB	REVISED -
PLOT DATE = 10/24/2016	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC TYPICAL SECTIONS - STAGE 1A	
SCALE:	SHEET NO. 3 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	45
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

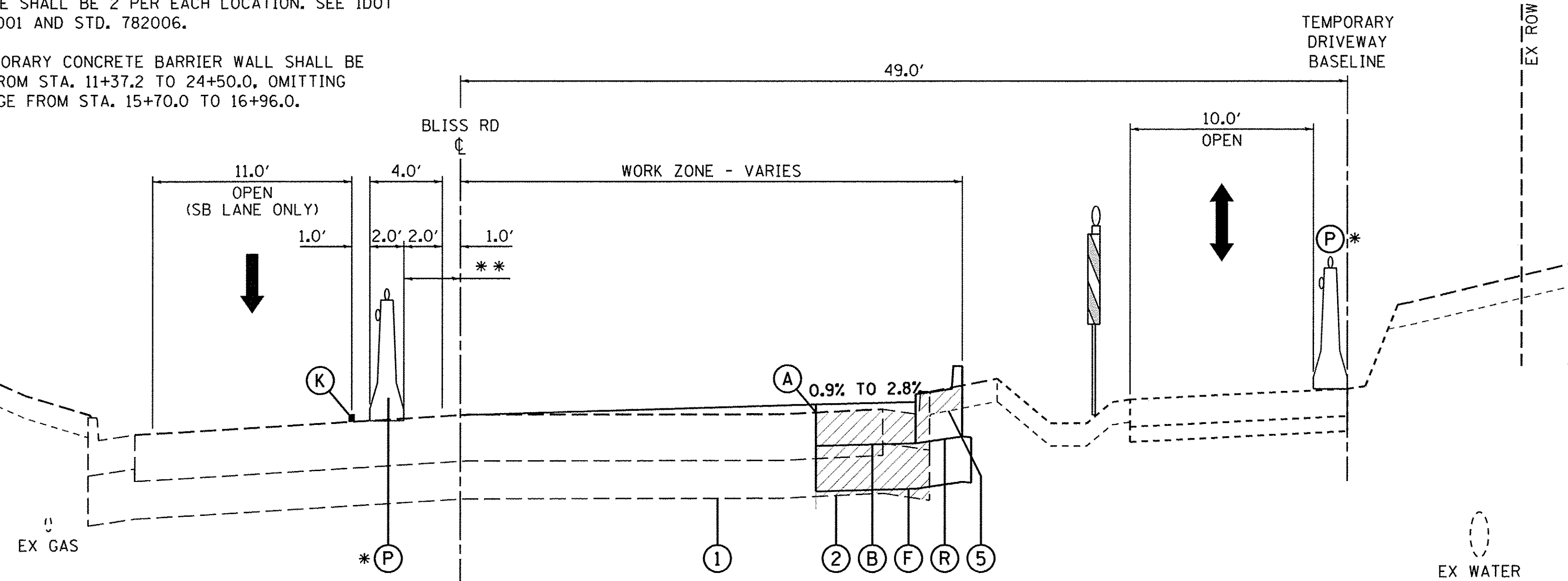
STAGE 1B NOTES

SEE SHEET 43 FOR MAINTENANCE OF TRAFFIC STAGING NOTES.

*** TEMPORARY BARRIER WALL**

BARRIER WALL MARKERS SHALL BE SPACED ON 25' C-C AND THERE SHALL BE 2 PER EACH LOCATION. SEE IDOT STD. 704001 AND STD. 782006.

THE TEMPORARY CONCRETE BARRIER WALL SHALL BE PINNED FROM STA. 11+37.2 TO 24+50.0, OMITTING THE BRIDGE FROM STA. 15+70.0 TO 16+96.0.



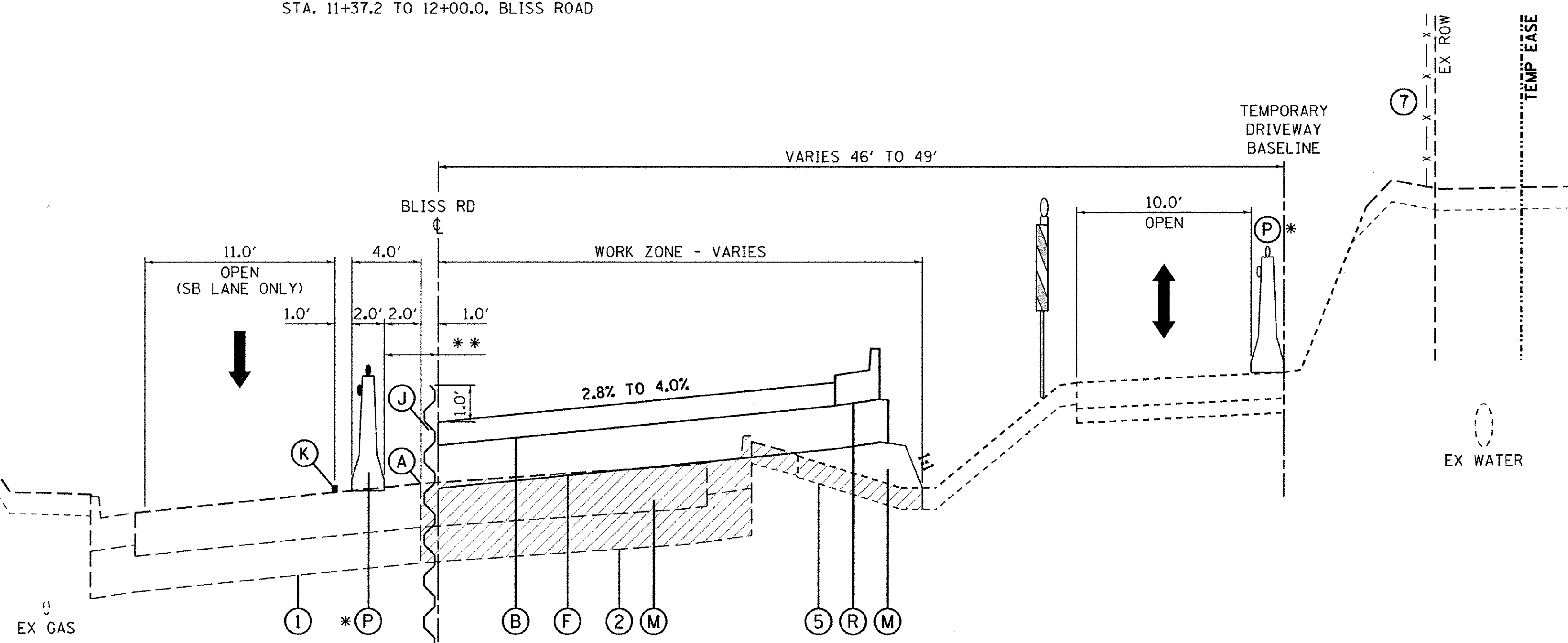
STAGE 1B – TYPICAL SECTION

NORTH BOUND LANE CLOSURE
STA. 11+37.2 TO 12+00.0, BLISS ROAD

LEGEND

- ① EXIST. PAVEMENT STRUCTURE
- ② EXIST. PAVEMENT AND/OR SHOULDER STRUCTURE - TO BE REMOVED
- ③ EXIST. GUARDRAIL - TO BE HORIZONTALLY ADJUSTED
- ④ EXIST. GUARDRAIL - TO BE REMOVED
- ⑤ EXIST. TOPSOIL - TO BE REMOVED
- ⑥ EXIST. CURB & GUTTER
- ⑦ EXIST. FENCE - TO REMAIN

- Ⓐ SAW CUT - FULL DEPTH
- Ⓑ PROP. HMA BINDER COURSE
- Ⓒ PROP. HMA SURFACE COURSE
- Ⓓ PROP. HMA SHOULDER
- Ⓔ PROP. AGGREGATE SHOULDER
- Ⓕ PROP. AGGREGATE SUBGRADE
- Ⓖ PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A W/GUARDRAIL MKRS.
- Ⓗ PROP. GUARDRAIL/BARRIER WALL REFLECTIVE MARKERS
- Ⓘ 7/4" TEMPORARY PAVEMENT W/4" SUBBASE GRANULAR MATERIAL
2" HMA SURFACE COURSE, MIX D, N70
5 1/4" HMA BINDER COURSE, IL-19.0
4", SUBBASE GRANULAR MATERIAL, TYPE B (PAID SEPARATELY)
- Ⓝ PROP. TEMPORARY SHEET PILING
- Ⓚ PROP. TEMPORARY PAVEMENT MARKING LINE (NO PAINT ON FINAL SURFACES)
- Ⓛ PROP. BITUMINOUS SURFACE REMOVAL
- Ⓜ PROP. STRUCTURAL EMBANKMENT
- Ⓝ PROP. SHOULDER EMBANKMENT
- Ⓞ PROP. TOPSOIL, SEEDING AND EROSION CONTROL BLANKET
- Ⓟ PROP. TEMPORARY CONCRETE BARRIER W/BARRIER WALL MKRS., TY C
- Ⓠ PROP. HMA LEVELING BINDER
- Ⓡ PROP. CONCRETE CURB & GUTTER, TY B6-24
- Ⓢ PROP. PIPE UNDERDRAIN
- Ⓣ PROP. UNDERCUT
- Ⓤ PROP. TOPSOIL PLACEMENT



STAGE 1B – TYPICAL SECTION

NORTH BOUND LANE CLOSURE
STA. 12+00.0 TO 15+52.6, BLISS ROAD

Ⓝ TEMPORARY SHEET PILING
STA. 13+00.0 TO 15+70.0

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WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:5	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - SBP/DPB	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC TYPICAL SECTIONS – STAGE 1B	
SCALE:	SHEET NO. 4 OF 9 SHEETS
STA.	TO STA.

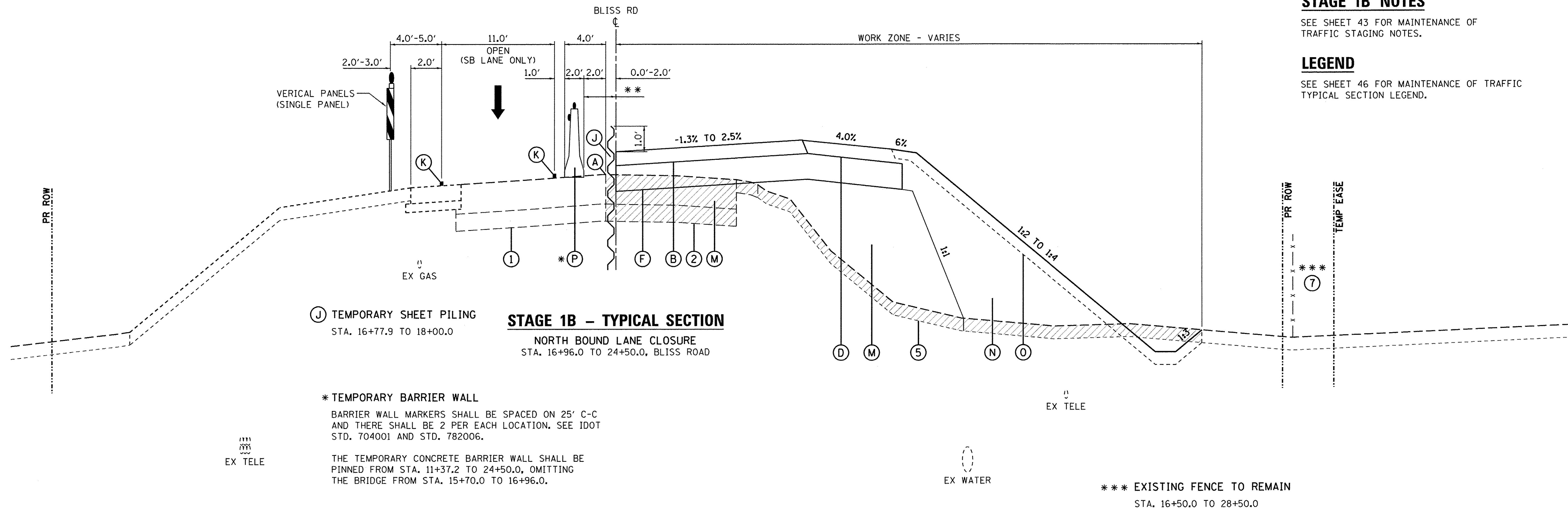
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	46
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

STAGE 1B NOTES

SEE SHEET 43 FOR MAINTENANCE OF TRAFFIC STAGING NOTES.

LEGEND

SEE SHEET 46 FOR MAINTENANCE OF TRAFFIC TYPICAL SECTION LEGEND.



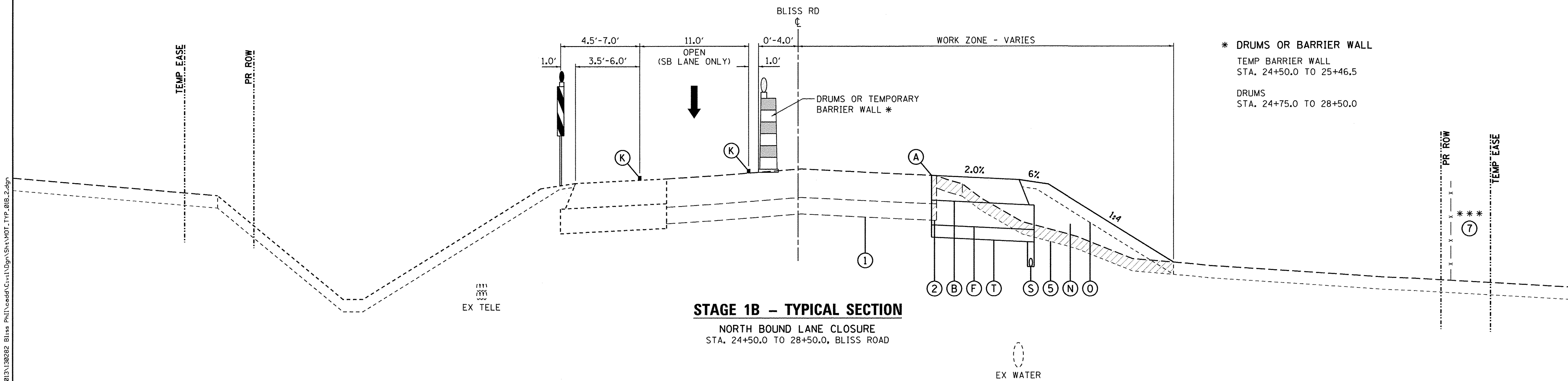
J TEMPORARY SHEET PILING
STA. 16+77.9 TO 18+00.0

STAGE 1B - TYPICAL SECTION
NORTH BOUND LANE CLOSURE
STA. 16+96.0 TO 24+50.0, BLISS ROAD

*** TEMPORARY BARRIER WALL**
BARRIER WALL MARKERS SHALL BE SPACED ON 25' C-C AND THERE SHALL BE 2 PER EACH LOCATION. SEE IDOT STD. 704001 AND STD. 782006.

THE TEMPORARY CONCRETE BARRIER WALL SHALL BE PINNED FROM STA. 11+37.2 TO 24+50.0, OMITTING THE BRIDGE FROM STA. 15+70.0 TO 16+96.0.

***** EXISTING FENCE TO REMAIN**
STA. 16+50.0 TO 28+50.0



STAGE 1B - TYPICAL SECTION
NORTH BOUND LANE CLOSURE
STA. 24+50.0 TO 28+50.0, BLISS ROAD

*** DRUMS OR BARRIER WALL**
TEMP BARRIER WALL
STA. 24+50.0 TO 25+46.5

DRUMS
STA. 24+75.0 TO 28+50.0

FILE NAME = W:\Projects\2013\130222 Bliss PH1\cadd\Civil\Drawings\TOT_TYP_01B.dgn

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WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1/5	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - SBP/DPB	REVISED -
	DATE - 8/8/16	REVISED -

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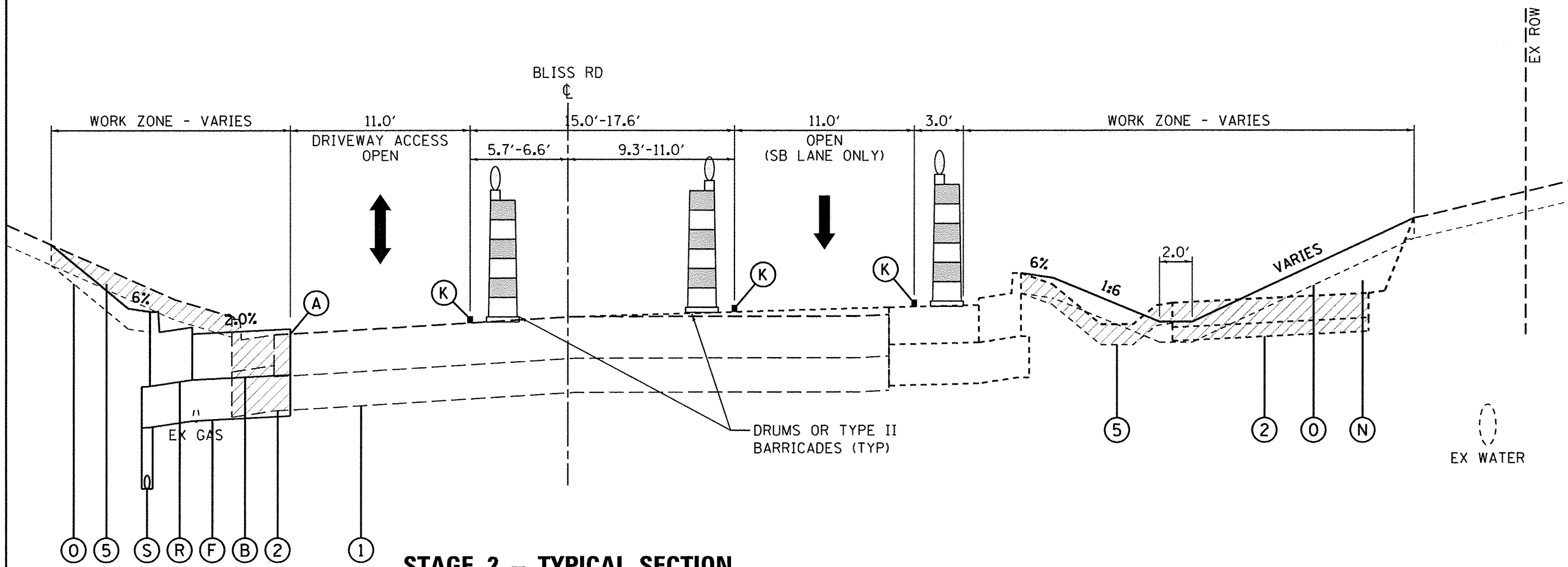
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS - STAGE 1B

SCALE: SHEET NO. 5 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 47
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

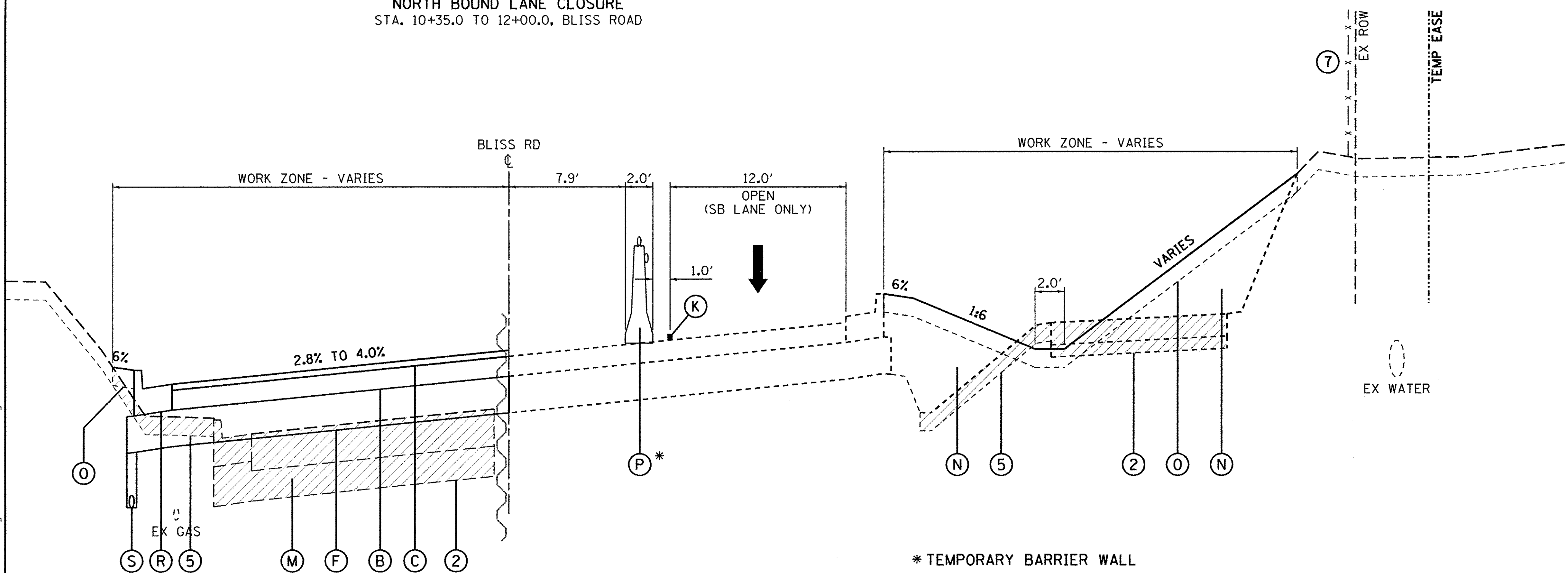
STAGE 2 NOTES

SEE SHEET 43 FOR MAINTENANCE OF TRAFFIC STAGING NOTES.



STAGE 2 - TYPICAL SECTION

NORTH BOUND LANE CLOSURE
STA. 10+35.0 TO 12+00.0, BLISS ROAD



STAGE 2 - TYPICAL SECTION

NORTH BOUND LANE CLOSURE
STA. 12+00.0 TO 15+52.6, BLISS ROAD

*** TEMPORARY BARRIER WALL**

BARRIER WALL MARKERS SHALL BE SPACED ON 25' C-C AND THERE SHALL BE 2 PER EACH LOCATION. SEE IDOT STD. 704001 AND STD. 782006.

PINNING OF THE TEMPORARY CONCRETE BARRIER WALL IS NOT REQUIRED, EXCEPT AT THE LAST SECTION AT EACH END OF THE WALL.

LEGEND

- (1) EXIST. PAVEMENT STRUCTURE
- (2) EXIST. PAVEMENT AND/OR SHOULDER STRUCTURE - TO BE REMOVED
- (3) EXIST. GUARDRAIL - TO BE HORIZONTALLY ADJUSTED
- (4) EXIST. GUARDRAIL - TO BE REMOVED
- (5) EXIST. TOPSOIL - TO BE REMOVED
- (6) EXIST. CURB & GUTTER
- (7) EXIST. FENCE - TO REMAIN
- (A) SAW CUT - FULL DEPTH
- (B) PROP. HMA BINDER COURSE
- (C) PROP. HMA SURFACE COURSE
- (D) PROP. HMA SHOULDER
- (E) PROP. AGGREGATE SHOULDER
- (F) PROP. AGGREGATE SUBGRADE
- (G) PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A W/GUARDRAIL MKRS.
- (H) PROP. GUARDRAIL/BARRIER WALL REFLECTIVE MARKERS
- (I) 7/4" TEMPORARY PAVEMENT W/4" SUBBASE GRANULAR MATERIAL
2" HMA SURFACE COURSE, MIX D, N70
5/4" HMA BINDER COURSE, IL-19.0
4", SUBBASE GRANULAR MATERIAL, TYPE B (PAID SEPARATELY)
- (J) PROP. TEMPORARY SHEET PILING
- (K) PROP. TEMPORARY PAVEMENT MARKING LINE (NO PAINT ON FINAL SURFACES)
- (L) PROP. BITUMINOUS SURFACE REMOVAL
- (M) PROP. STRUCTURAL EMBANKMENT
- (N) PROP. SHOULDER EMBANKMENT
- (O) PROP. TOPSOIL, SEEDING AND EROSION CONTROL BLANKET
- (P) PROP. TEMPORARY CONCRETE BARRIER W/BARRIER WALL MKRS., TY C
- (Q) PROP. HMA LEVELING BINDER
- (R) PROP. CONCRETE CURB & GUTTER, TY B6-24
- (S) PROP. PIPE UNDERDRAIN
- (T) PROP. UNDERCUT
- (U) PROP. TOPSOIL PLACEMENT

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WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
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	DATE - 8/8/16	REVISED -

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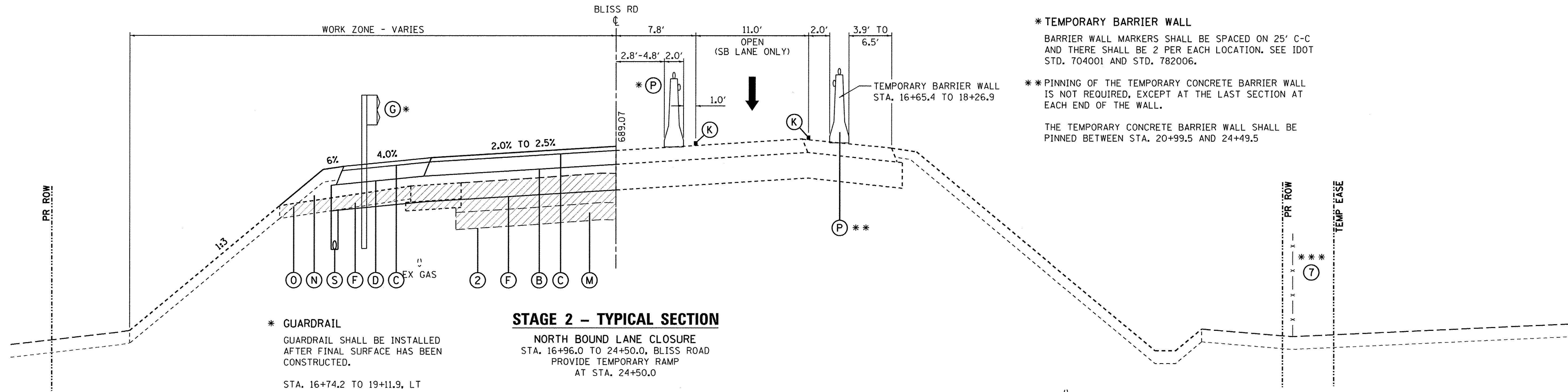
**MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS - STAGE 2**

SCALE: SHEET NO. 6 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	48
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

STAGE 2 NOTES

SEE SHEET 43 FOR MAINTENANCE OF TRAFFIC STAGING NOTES.



*** TEMPORARY BARRIER WALL**
 BARRIER WALL MARKERS SHALL BE SPACED ON 25' C-C AND THERE SHALL BE 2 PER EACH LOCATION. SEE IDOT STD. 704001 AND STD. 782006.

**** PINNING OF THE TEMPORARY CONCRETE BARRIER WALL IS NOT REQUIRED, EXCEPT AT THE LAST SECTION AT EACH END OF THE WALL.**

THE TEMPORARY CONCRETE BARRIER WALL SHALL BE PINNED BETWEEN STA. 20+99.5 AND 24+49.5

STAGE 2 - TYPICAL SECTION

NORTH BOUND LANE CLOSURE
 STA. 16+96.0 TO 24+50.0, BLISS ROAD
 PROVIDE TEMPORARY RAMP
 AT STA. 24+50.0

*** GUARDRAIL**
 GUARDRAIL SHALL BE INSTALLED AFTER FINAL SURFACE HAS BEEN CONSTRUCTED.
 STA. 16+74.2 TO 19+11.9, LT

LEGEND

- (A) SAW CUT - FULL DEPTH
- (B) PROP. HMA BINDER COURSE
- (C) PROP. HMA SURFACE COURSE
- (D) PROP. HMA SHOULDER
- (E) PROP. AGGREGATE SHOULDER
- (F) PROP. AGGREGATE SUBGRADE
- (G) PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A W/GUARDRAIL MKRS.
- (H) PROP. GUARDRAIL/BARRIER WALL REFLECTIVE MARKERS
- (I) 7/4" TEMPORARY PAVEMENT W/4" SUBBASE GRANULAR MATERIAL
 2" HMA SURFACE COURSE, MIX D, N70
 5/4" HMA BINDER COURSE, IL-19.0
 4", SUBBASE GRANULAR MATERIAL, TYPE B (PAID SEPARATELY)
- (J) PROP. TEMPORARY SHEET PILING
- (K) PROP. TEMPORARY PAVEMENT MARKING LINE (NO PAINT ON FINAL SURFACES)
- (L) PROP. BITUMINOUS SURFACE REMOVAL
- (M) PROP. STRUCTURAL EMBANKMENT
- (N) PROP. SHOULDER EMBANKMENT
- (O) PROP. TOPSOIL, SEEDING AND EROSION CONTROL BLANKET
- (P) PROP. TEMPORARY CONCRETE BARRIER W/BARRIER WALL MKRS., TY C
- (Q) PROP. HMA LEVELING BINDER
- (R) PROP. CONCRETE CURB & GUTTER, TY B6-24
- (S) PROP. PIPE UNDERDRAIN
- (T) PROP. UNDERCUT
- (U) PROP. TOPSOIL PLACEMENT

- (1) EXIST. PAVEMENT STRUCTURE
- (2) EXIST. PAVEMENT AND/OR SHOULDER STRUCTURE - TO BE REMOVED
- (3) EXIST. GUARDRAIL - TO BE HORIZONTALLY ADJUSTED
- (4) EXIST. GUARDRAIL - TO BE REMOVED
- (5) EXIST. TOPSOIL - TO BE REMOVED
- (6) EXIST. CURB & GUTTER
- (7) EXIST. FENCE - TO REMAIN

***** EXISTING FENCE TO REMAIN**
 STA. 16+50.0 TO 28+50.0

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 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nporris	DESIGNED - SBP	REVISED - 10/17/16
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	DATE - 8/8/16	REVISED -

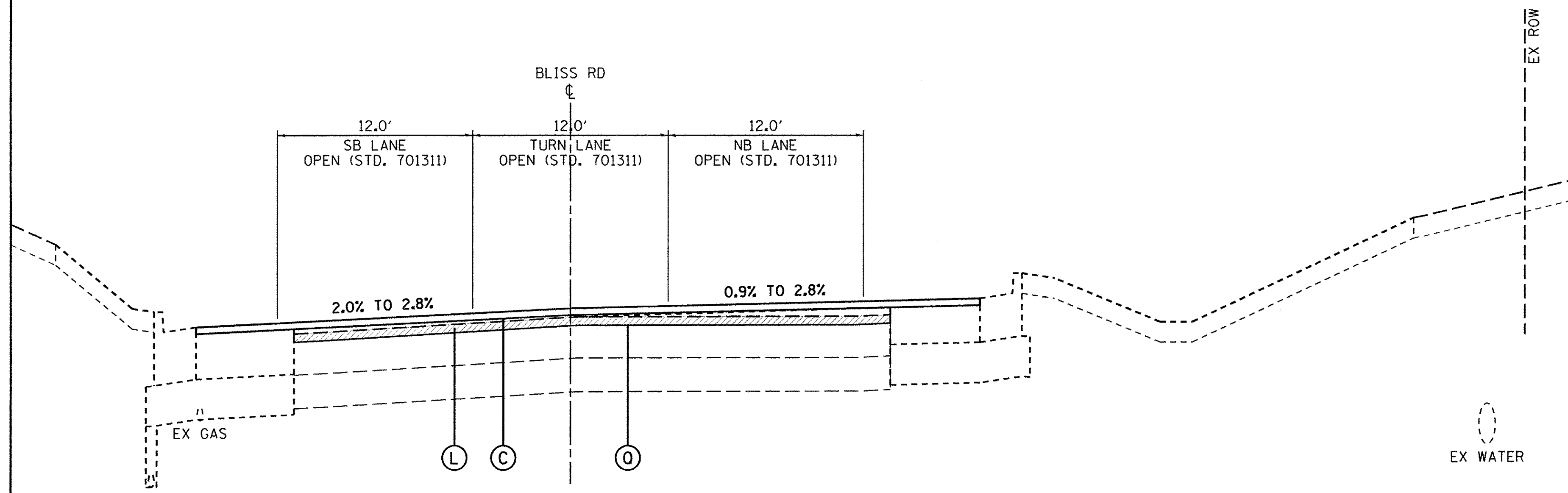
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC TYPICAL SECTIONS - STAGE 2	
SCALE:	SHEET NO. 7 OF 9 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	49
CONTRACT NO. 61D20			ILLINOIS FED. AID PROJECT	

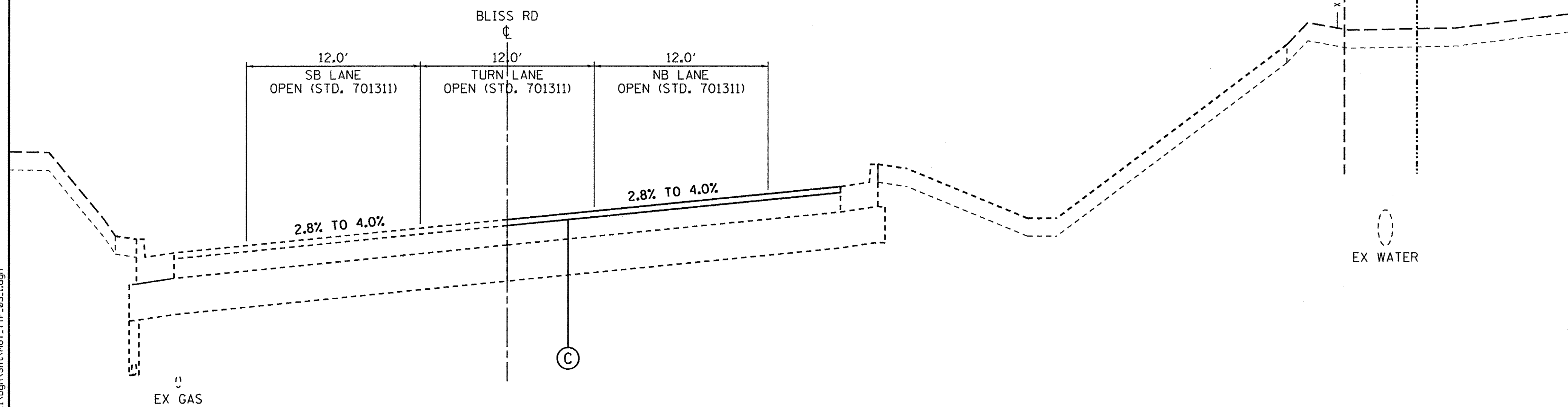
STAGE 3 NOTES

SEE SHEET 43 FOR MAINTENANCE OF TRAFFIC STAGING NOTES.



STAGE 3 - TYPICAL SECTION

FINAL SURFACE
STA. 10+35.0 TO 12+00.0, BLISS ROAD



STAGE 3 - TYPICAL SECTION

FINAL SURFACE
STA. 12+00.0 TO 15+52.6, BLISS ROAD

LEGEND

- ① EXIST. PAVEMENT STRUCTURE
- ② EXIST. PAVEMENT AND/OR SHOULDER STRUCTURE - TO BE REMOVED
- ③ EXIST. GUARDRAIL - TO BE HORIZONTALLY ADJUSTED
- ④ EXIST. GUARDRAIL - TO BE REMOVED
- ⑤ EXIST. TOPSOIL - TO BE REMOVED
- ⑥ EXIST. CURB & GUTTER
- ⑦ EXIST. FENCE - TO REMAIN

- Ⓐ SAW CUT - FULL DEPTH
- Ⓑ PROP. HMA BINDER COURSE
- Ⓒ PROP. HMA SURFACE COURSE
- Ⓓ PROP. HMA SHOULDER
- Ⓔ PROP. AGGREGATE SHOULDER
- Ⓕ PROP. AGGREGATE SUBGRADE
- Ⓖ PROP. STEEL PLATE BEAM GUARDRAIL, TYPE A W/GUARDRAIL MKRS.
- Ⓗ PROP. GUARDRAIL/BARRIER WALL REFLECTIVE MARKERS
- Ⓘ 7 1/4" TEMPORARY PAVEMENT W/4" SUBBASE GRANULAR MATERIAL
2" HMA SURFACE COURSE, MIX D, N70
5/4" HMA BINDER COURSE, IL-19.0
4", SUBBASE GRANULAR MATERIAL, TYPE B (PAID SEPARATELY)
- ⓵ PROP. TEMPORARY SHEET PILING
- Ⓚ PROP. TEMPORARY PAVEMENT MARKING LINE (NO PAINT ON FINAL SURFACES)
- Ⓛ PROP. BITUMINOUS SURFACE REMOVAL
- Ⓜ PROP. STRUCTURAL EMBANKMENT
- Ⓝ PROP. SHOULDER EMBANKMENT
- Ⓞ PROP. TOPSOIL, SEEDING AND EROSION CONTROL BLANKET
- Ⓟ PROP. TEMPORARY CONCRETE BARRIER W/BARRIER WALL MKRS., TY C
- Ⓠ PROP. HMA LEVELING BINDER
- Ⓡ PROP. CONCRETE CURB & GUTTER, TY B6-24
- Ⓢ PROP. PIPE UNDERDRAIN
- Ⓣ PROP. UNDERCUT
- Ⓤ PROP. TOPSOIL PLACEMENT

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WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

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PLOT DATE = 10/24/2016	CHECKED - SBP/DPB	REVISED -
	DATE - 8/8/16	REVISED -

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MAINTENANCE OF TRAFFIC TYPICAL SECTIONS - STAGE 3	
SCALE:	SHEET NO. 8 OF 9 SHEETS STA. TO STA.

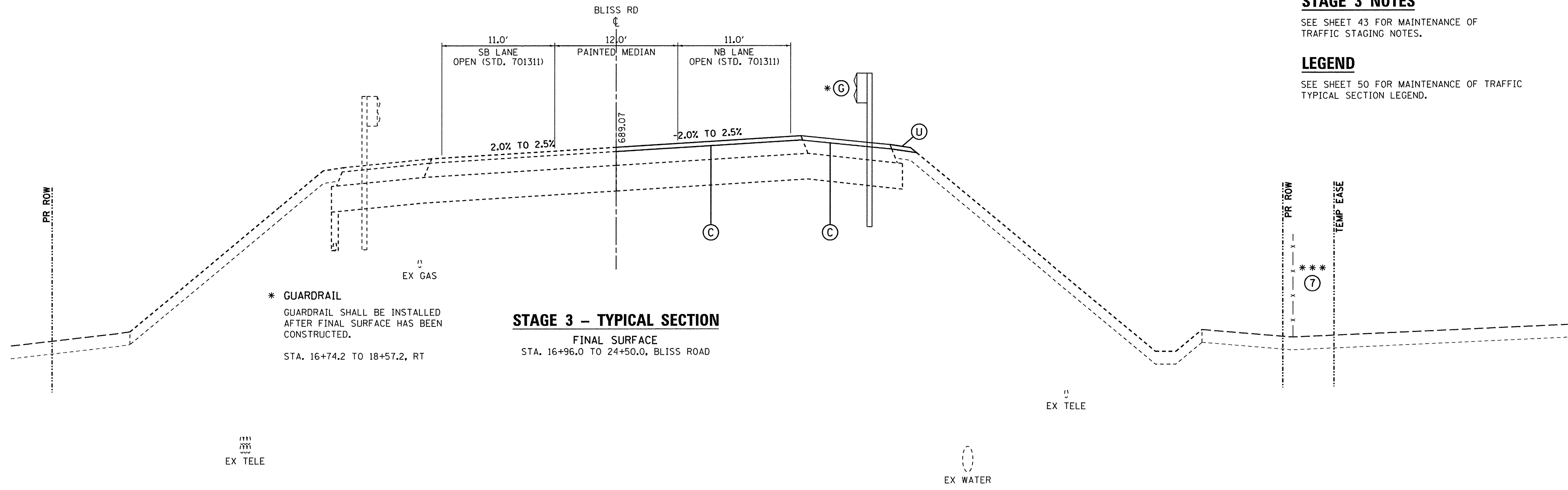
F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 50
CONTRACT NO. 61D20				ILLINOIS FED. AID PROJECT

STAGE 3 NOTES

SEE SHEET 43 FOR MAINTENANCE OF TRAFFIC STAGING NOTES.

LEGEND

SEE SHEET 50 FOR MAINTENANCE OF TRAFFIC TYPICAL SECTION LEGEND.

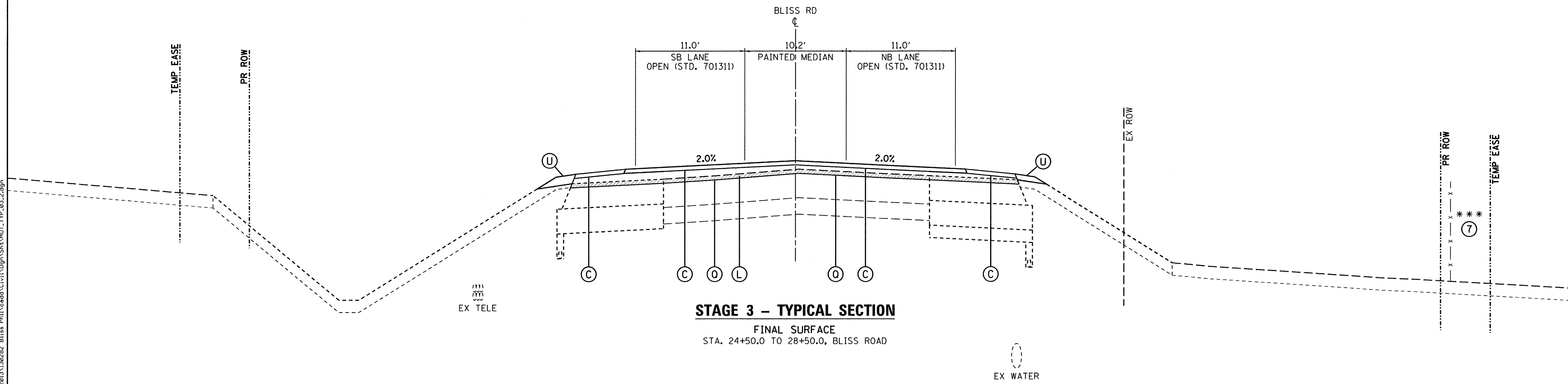


STAGE 3 - TYPICAL SECTION

FINAL SURFACE
STA. 16+96.0 TO 24+50.0, BLISS ROAD

* GUARDRAIL
GUARDRAIL SHALL BE INSTALLED
AFTER FINAL SURFACE HAS BEEN
CONSTRUCTED.
STA. 16+74.2 TO 18+57.2, RT

*** EXISTING FENCE TO REMAIN
STA. 24+50.0 TO 28+50.0



STAGE 3 - TYPICAL SECTION

FINAL SURFACE
STA. 24+50.0 TO 28+50.0, BLISS ROAD

FILE NAME = M:\Projects\2013\1302282 Bliss Ph\I\cead\Civil\Dgn\Shst\TOT_TYP_03_2.dgn



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116 WEST MAIN STREET, SUITE 201 ST. CHARLES, ILLINOIS 60174 (630) 443-7755	DRAWN - NDP	REVISED -
PLOT SCALE = 1:5	CHECKED - SBP/DPB	REVISED -
PLOT DATE = 10/24/2016	DATE - 8/8/16	REVISED -

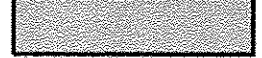










**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS - STAGE 3**

SCALE: SHEET NO. 9 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 51
CONTRACT NO. 61D20				ILLINOIS FED. AID PROJECT

LEGEND

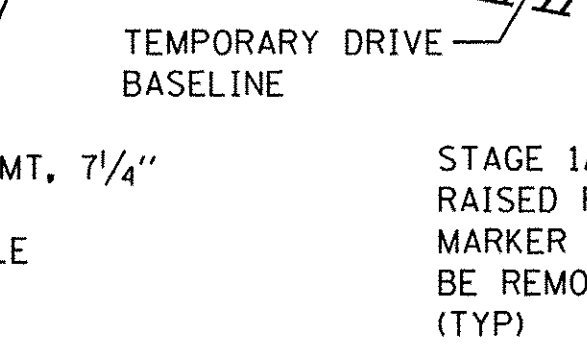
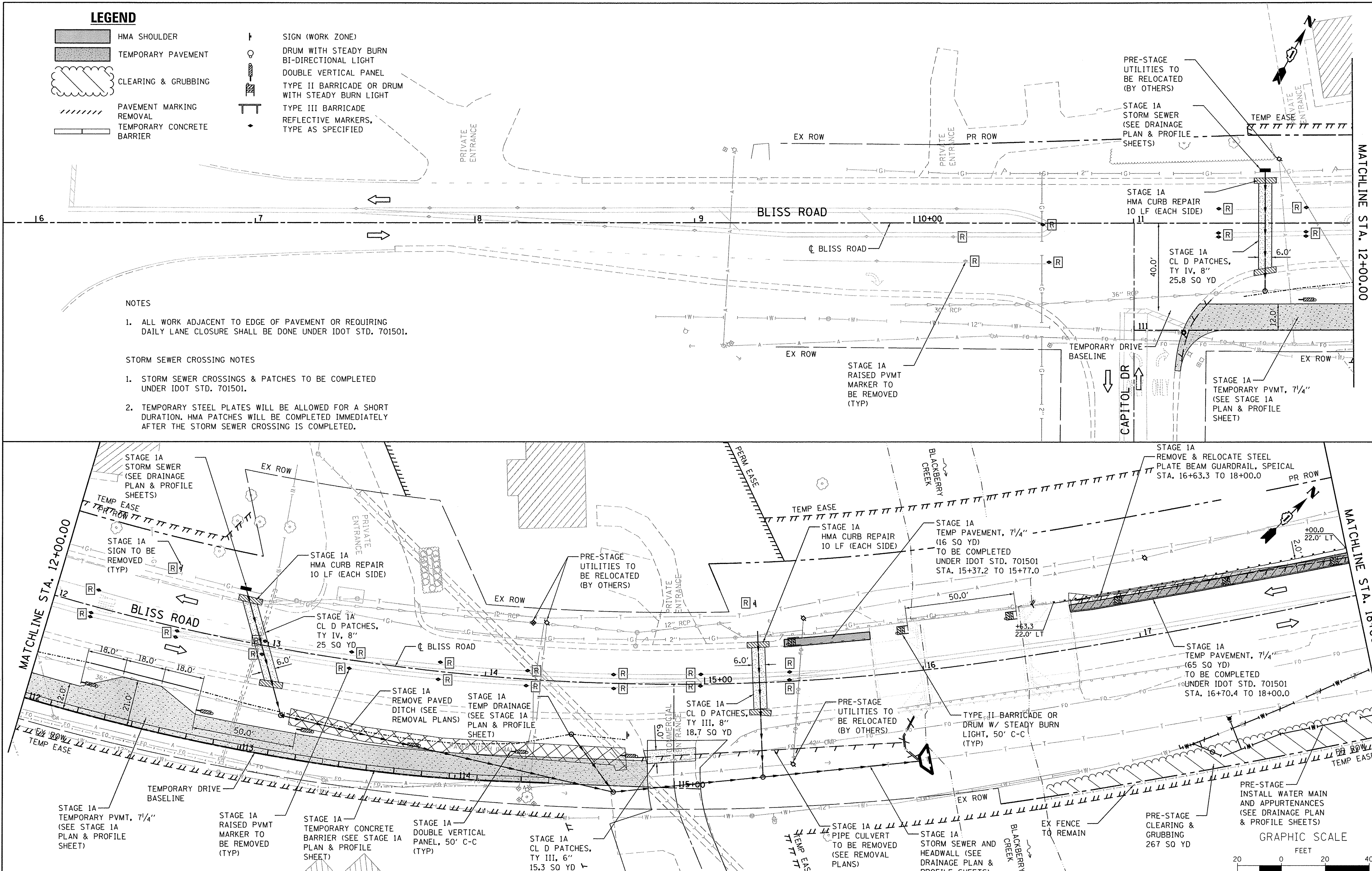
-  HMA SHOULDER
-  TEMPORARY PAVEMENT
-  CLEARING & GRUBBING
-  PAVEMENT MARKING REMOVAL
-  TEMPORARY CONCRETE BARRIER
-  SIGN (WORK ZONE)
-  DRUM WITH STEADY BURN BI-DIRECTIONAL LIGHT
-  DOUBLE VERTICAL PANEL
-  TYPE II BARRICADE OR DRUM WITH STEADY BURN LIGHT
-  TYPE III BARRICADE
-  REFLECTIVE MARKERS, TYPE AS SPECIFIED

NOTES

1. ALL WORK ADJACENT TO EDGE OF PAVEMENT OR REQUIRING DAILY LANE CLOSURE SHALL BE DONE UNDER IDOT STD. 701501.

STORM SEWER CROSSING NOTES

1. STORM SEWER CROSSINGS & PATCHES TO BE COMPLETED UNDER IDOT STD. 701501.
2. TEMPORARY STEEL PLATES WILL BE ALLOWED FOR A SHORT DURATION. HMA PATCHES WILL BE COMPLETED IMMEDIATELY AFTER THE STORM SEWER CROSSING IS COMPLETED.



WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

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	DATE - 8/8/16	REVISED -

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**MAINTENANCE OF TRAFFIC
PRE-STAGE & STAGE 1A**

SCALE: 1"=20' SHEET NO. 1 OF 11 SHEETS STA. 7+00.00 TO STA. 18+00.00

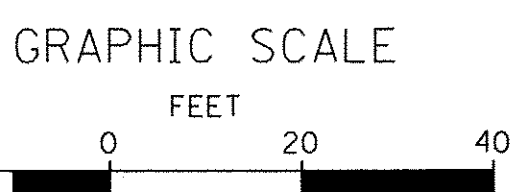
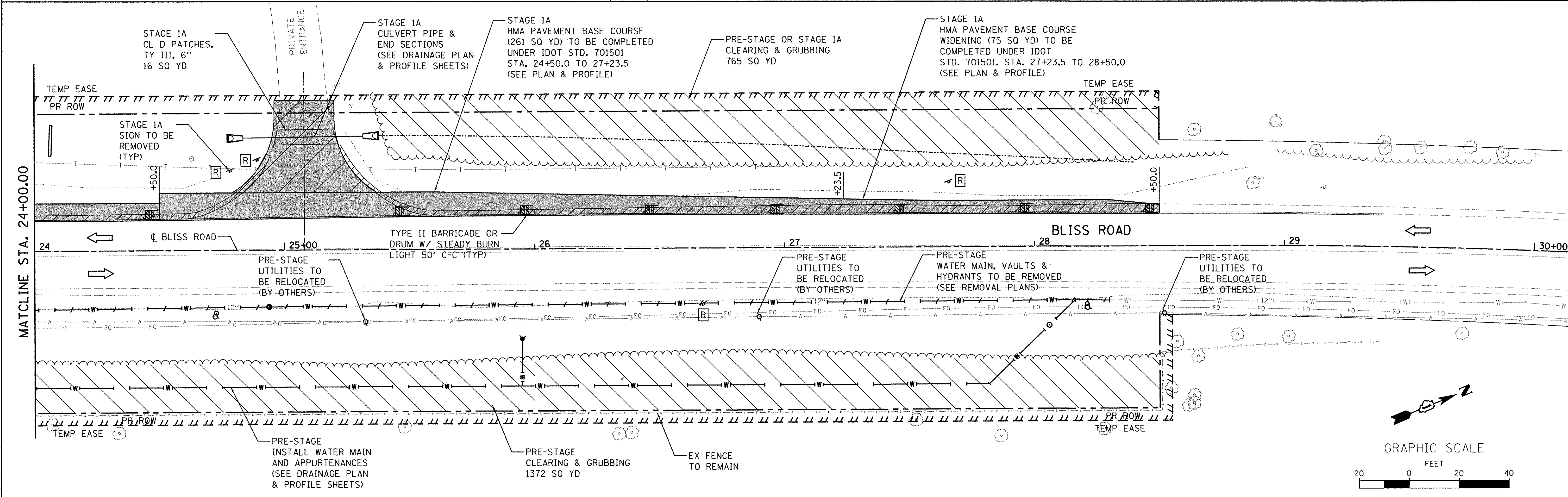
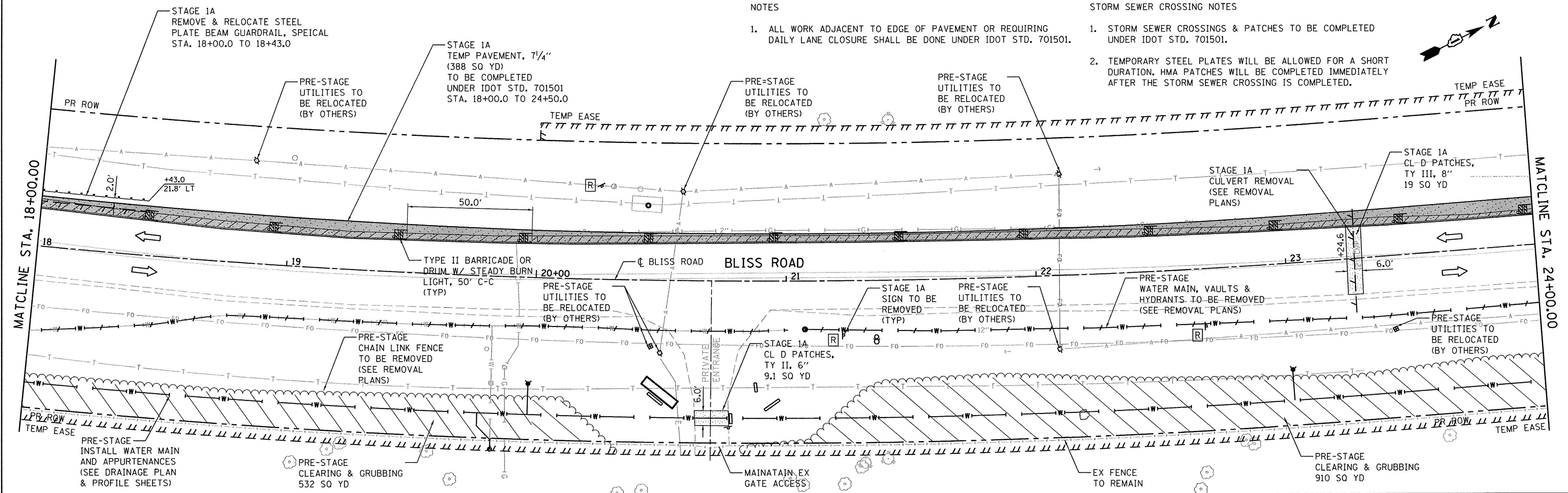
F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 52
CONTRACT NO. 61D20				ILLINOIS FED. AID PROJECT

NOTES

- 1. ALL WORK ADJACENT TO EDGE OF PAVEMENT OR REQUIRING DAILY LANE CLOSURE SHALL BE DONE UNDER IDOT STD. 701501.

STORM SEWER CROSSING NOTES

- 1. STORM SEWER CROSSINGS & PATCHES TO BE COMPLETED UNDER IDOT STD. 701501.
- 2. TEMPORARY STEEL PLATES WILL BE ALLOWED FOR A SHORT DURATION. HMA PATCHES WILL BE COMPLETED IMMEDIATELY AFTER THE STORM SEWER CROSSING IS COMPLETED.



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WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

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	DATE - 8/8/16	REVISED -

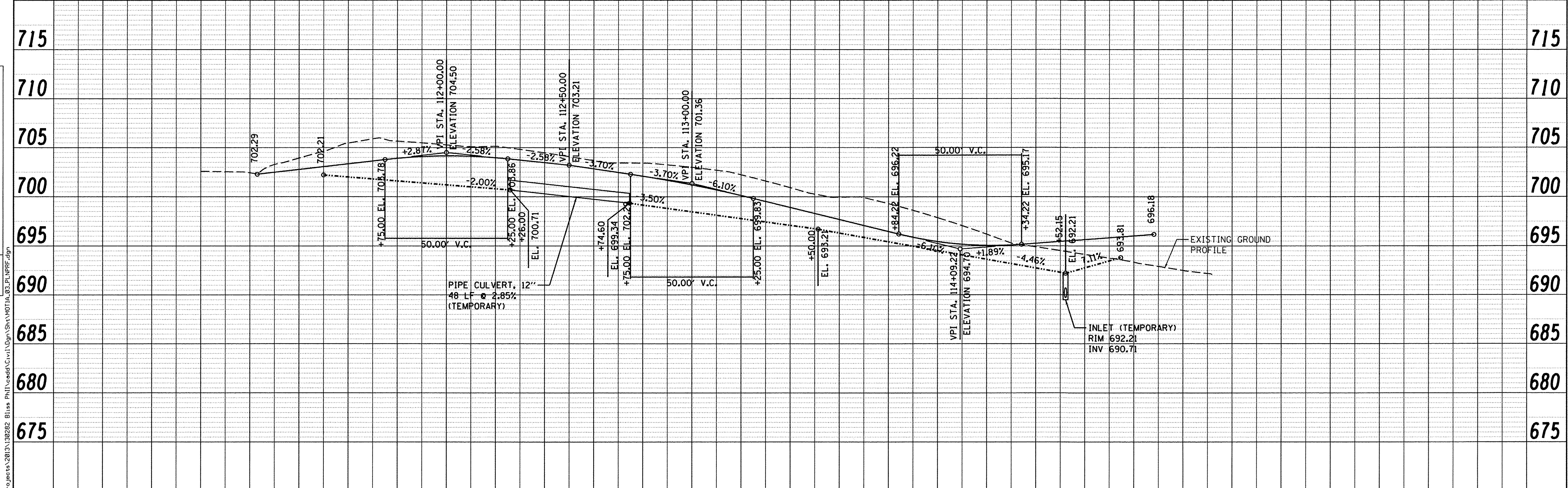
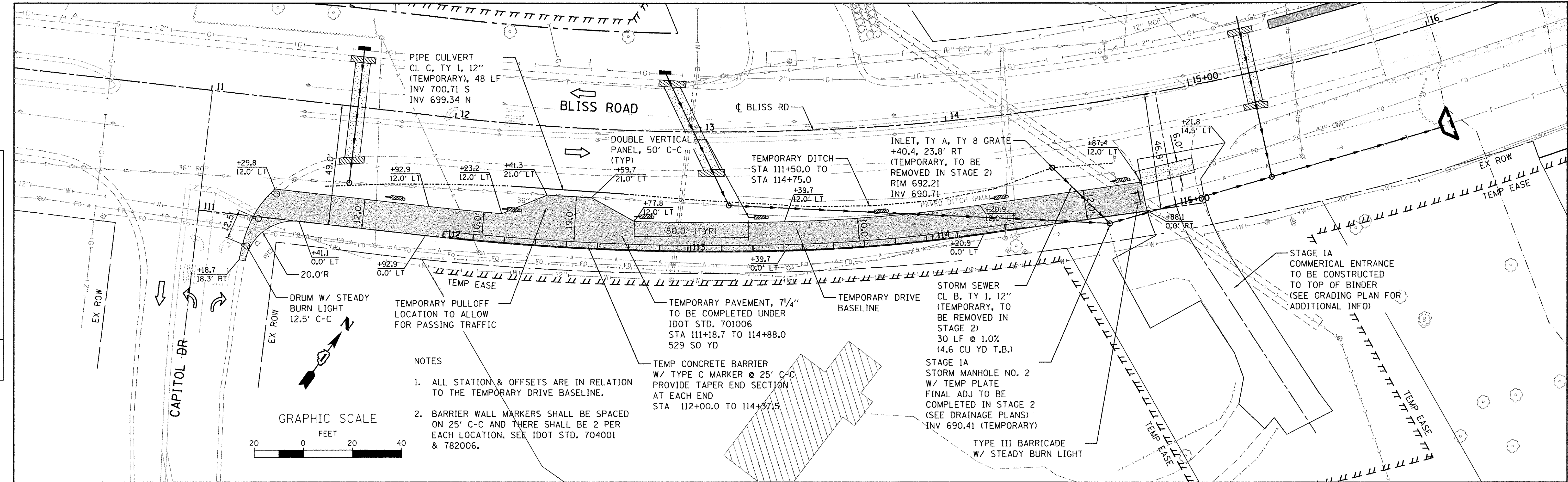
**STATE OF ILLINOIS
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**MAINTENANCE OF TRAFFIC
PRE-STAGE & STAGE 1A**
 SCALE: 1"=20' SHEET NO. 2 OF 11 SHEETS STA. 18+00.00 TO STA. 28+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	53
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
NO.	NO.		
NO.	NO.		
NO.	NO.		

PROFILE	SURVEYED	BY	DATE
NO.	NO.		
NO.	NO.		
NO.	NO.		



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WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

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MAINTENANCE OF TRAFFIC
PLAN & PROFILE - TEMPORARY DRIVE - STAGE 1A
SCALE: 1"=20'
SHEET NO. 3 OF 11 SHEETS
STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	54
				CONTRACT NO. 61D20
ILLINOIS FED. AID PROJECT				

LEGEND

- WORK ZONE
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER W/ REFLECTORS
- PAVEMENT MARKING REMOVAL
- (GR) GRINDING REMOVAL
- (WB) WATER BLASTING
- SIGN (WORK ZONE)
- DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT VERTICAL PANEL
- TYPE II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- TYPE III BARRICADE REFLECTIVE MARKERS, TYPE AS SPECIFIED

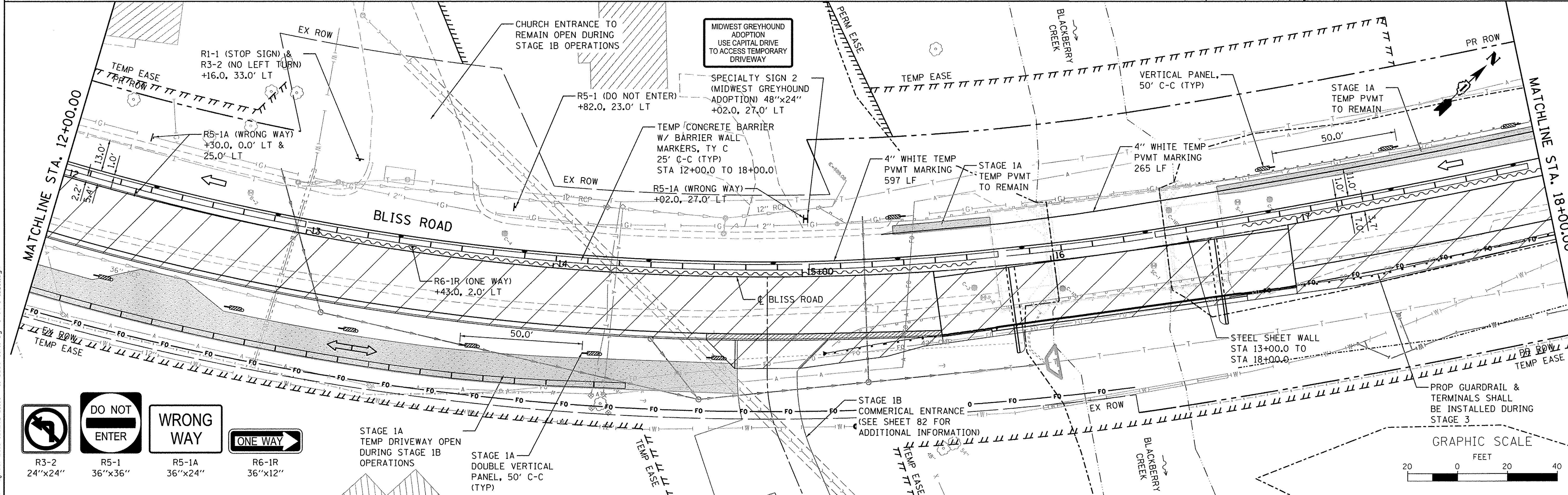
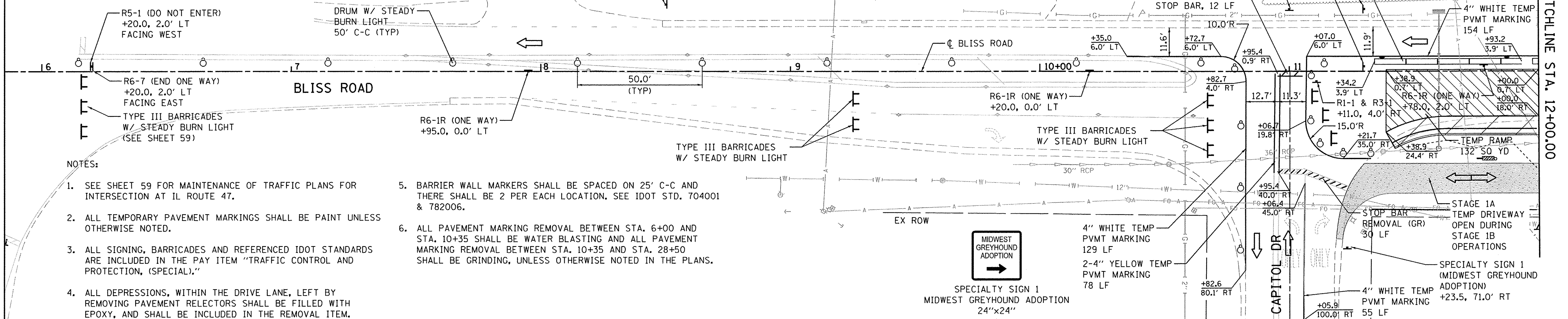
END WORK ZONE SPEED LIMIT
G20-1103
60"x36"

- STOP
R1-1
30"x30"
- R3-1
24"x24"
- DO NOT ENTER
R5-1
36"x36"
- ONE WAY
R6-1R
36"x12"
- ONE WAY
R6-1L
36"x12"
- END ONE WAY
R6-7
24"x30"

TEMP CONCRETE BARRIER W/ BARRIER WALL MARKERS, TY C
25' C-C (TYP)
STA 11+33.0 TO 12+00.0

TEMP EASE
+00.0, 25.0' LT

MATCHLINE STA. 12+00.00



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WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

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	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
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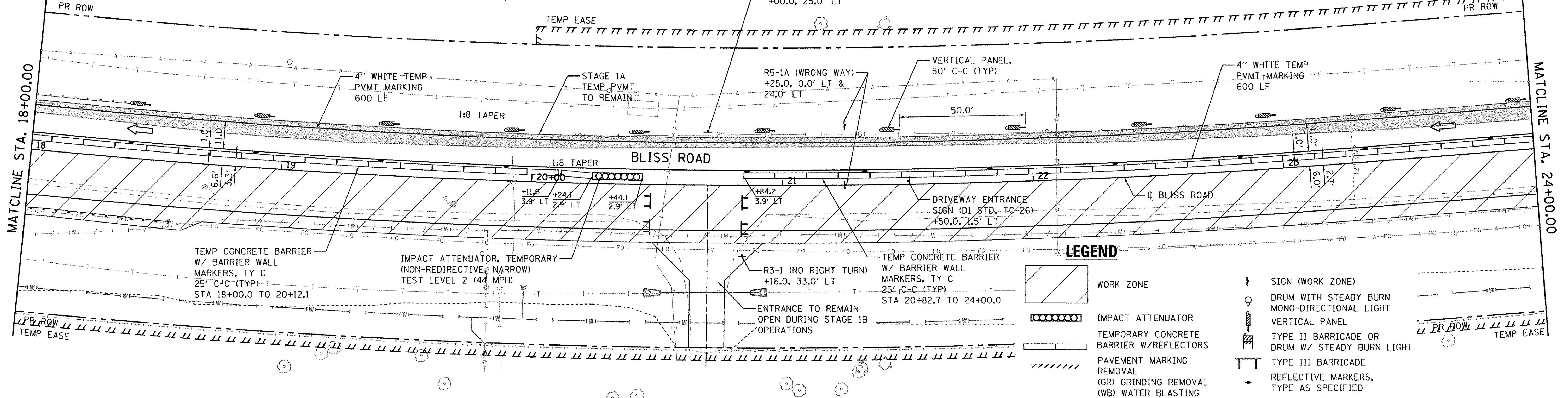
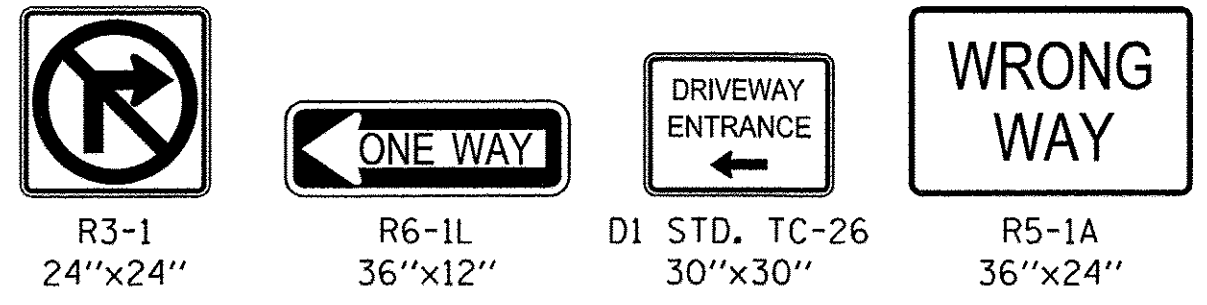
**MAINTENANCE OF TRAFFIC
STAGE 1B**

SCALE: 1"=20'
SHEET NO. 4 OF 11 SHEETS
STA. 7+00.00 TO STA. 18+00.00

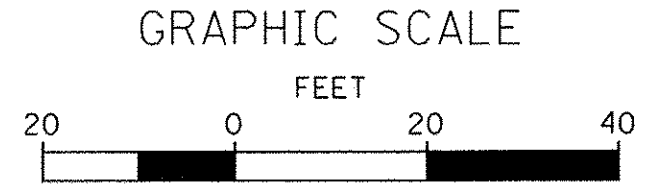
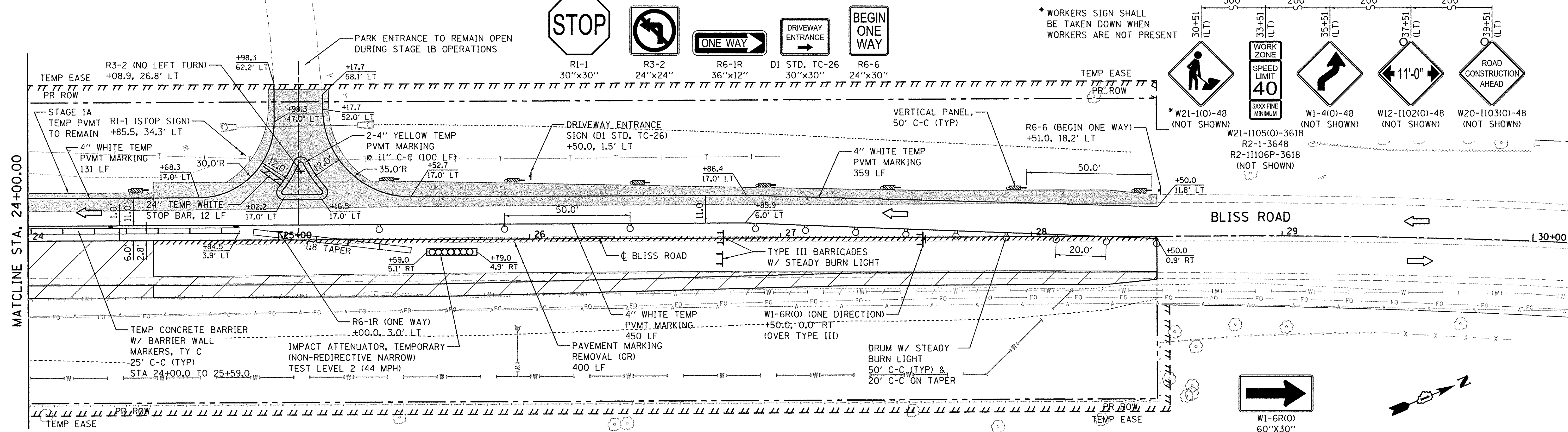
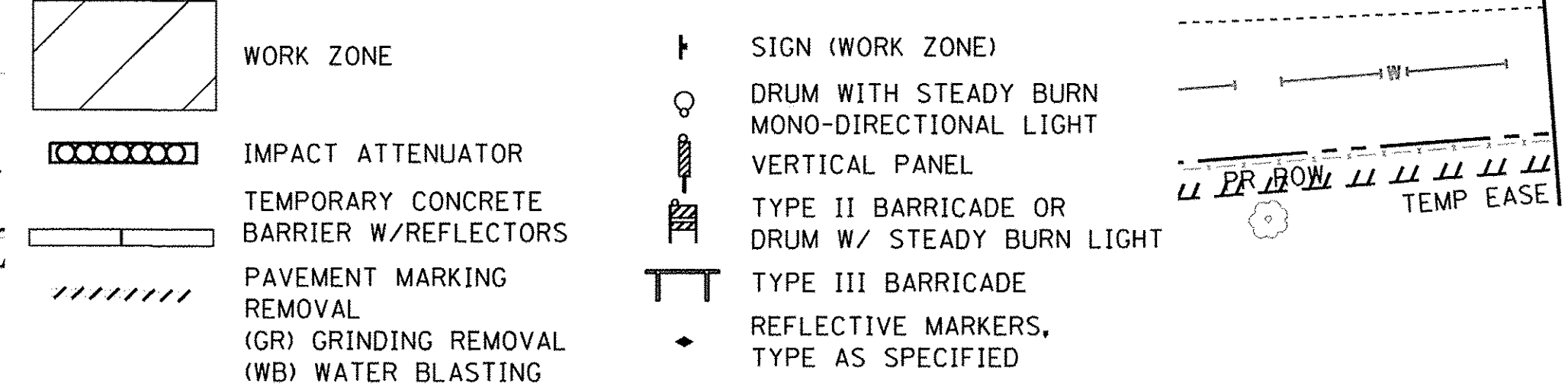
F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 55
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

NOTES:

- ALL TEMPORARY PAVEMENT MARKINGS SHALL BE PAINT UNLESS OTHERWISE NOTED.
- ALL SIGNING, BARRICADES AND REFERENCED IDOT STANDARDS ARE INCLUDED IN THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)".
- BARRIER WALL MARKERS SHALL BE SPACED ON 25' C-C AND THERE SHALL BE 2 PER EACH LOCATION. SEE IDOT STD. 704001 & 782006.
- ALL PAVEMENT MARKING REMOVAL BETWEEN STA. 6+00 AND STA. 10+35 SHALL BE WATER BLASTING AND ALL PAVEMENT MARKING REMOVAL BETWEEN STA. 10+35 AND STA. 28+50 SHALL BE GRINDING, UNLESS OTHERWISE NOTED IN THE PLANS.



LEGEND



FILE NAME = W:\Projects\2013\130282 - Bliss Ph1\Lead\Civil\Drawings\WDT1B_02.dwg

WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DBP	REVISED -
	DATE - 8/8/16	REVISED -

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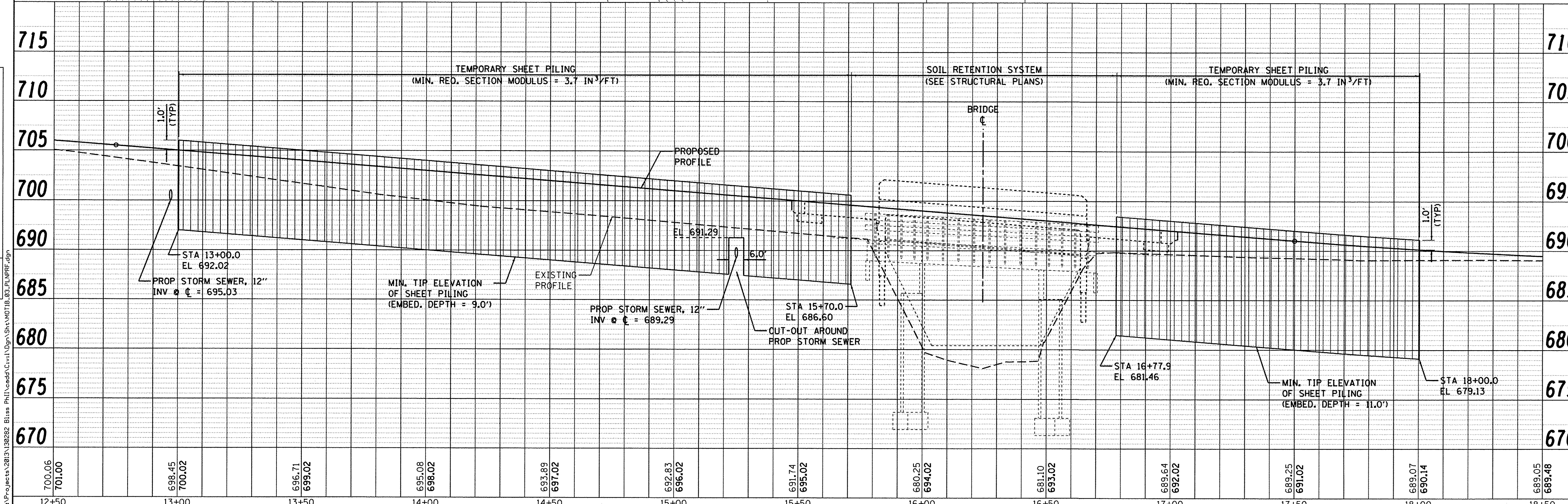
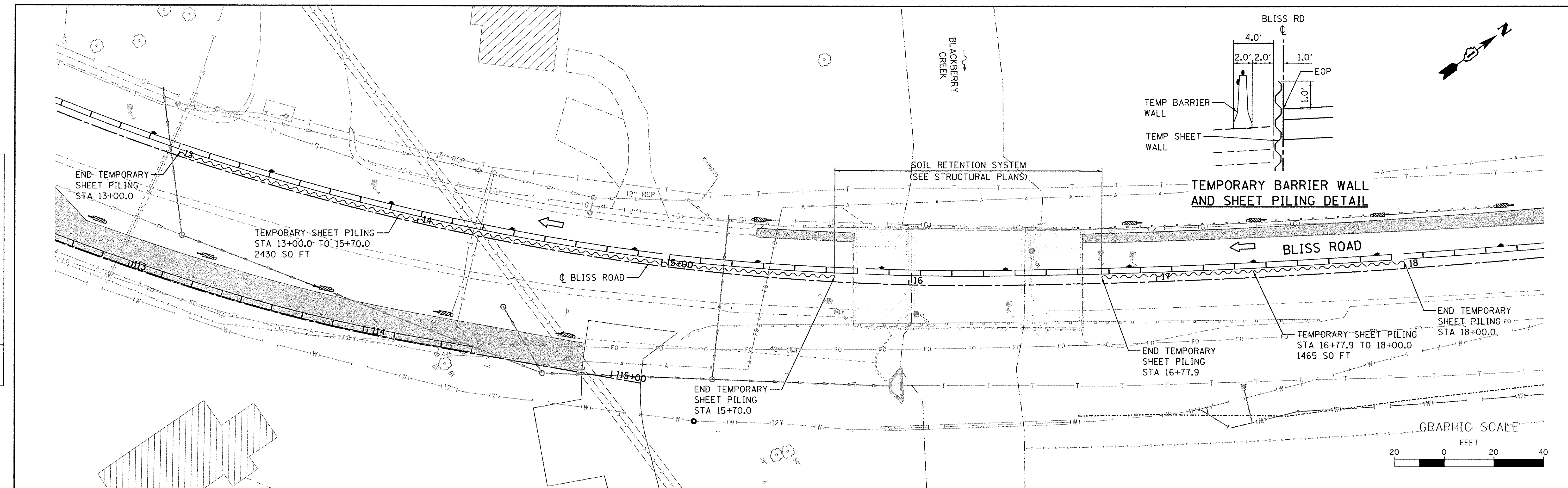
**MAINTENANCE OF TRAFFIC
 STAGE 1B**

SCALE: 1"=20' SHEET NO. 5 OF 11 SHEETS STA. 18+00.00 TO STA. 28+50.00

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 56
ILLINOIS FED. AID PROJECT				CONTRACT NO. 61D20

DATE	
BY	
PLANNED	
CHECKED	
BY	
NO.	

DATE	
BY	
PROFILING	
CHECKED	
BY	
NO.	



700.06	701.00	698.45	700.02	696.71	699.02	695.08	698.02	693.89	697.02	692.83	696.02	691.74	695.02	680.25	694.02	681.10	693.02	689.64	692.02	689.25	691.02	689.07	690.14	689.05	689.48
12+50		13+00		13+50		14+00		14+50		15+00		15+50		16+00		16+50		17+00		17+50		18+00		18+50	

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 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

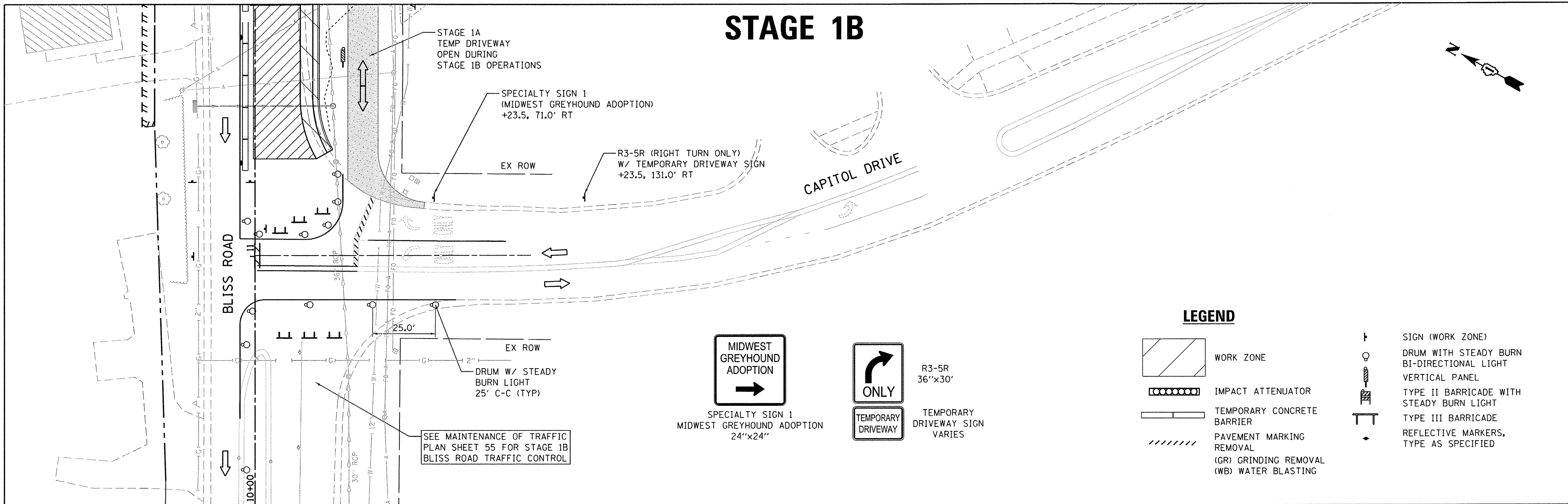
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PLLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
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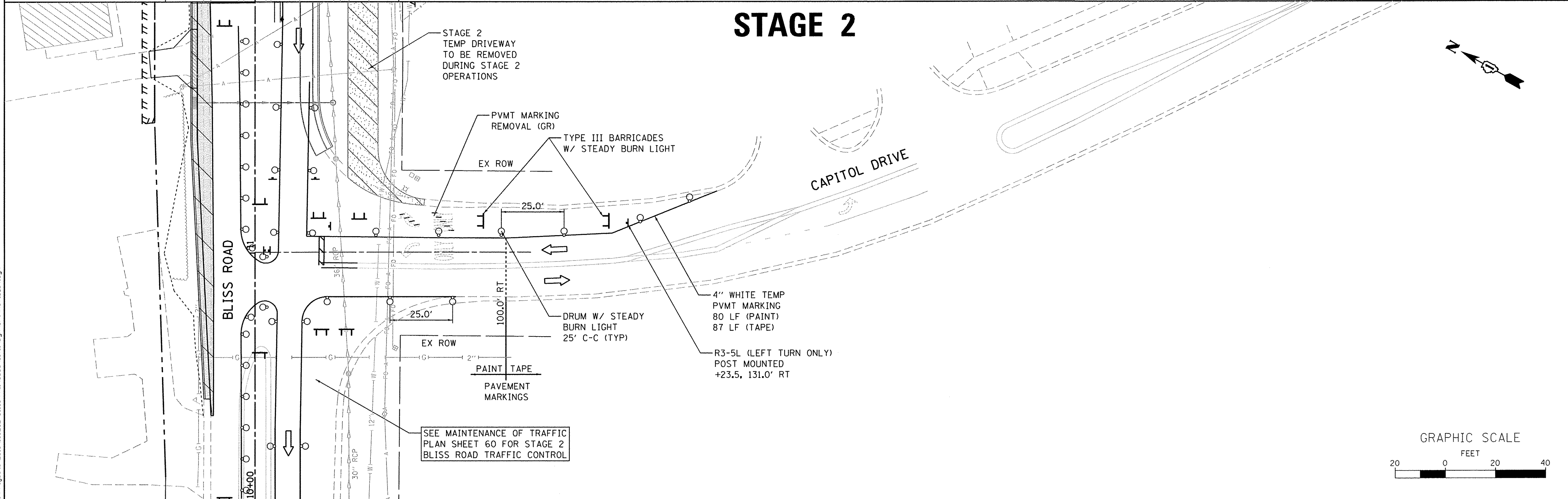
PLAN & PROFILE
PLAN & PROFILE - TEMPORARY SHEET PILING - STAGE 1B
 SCALE: 1"=20' SHEET NO. 6 OF 11 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 57
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

STAGE 1B



STAGE 2



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 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

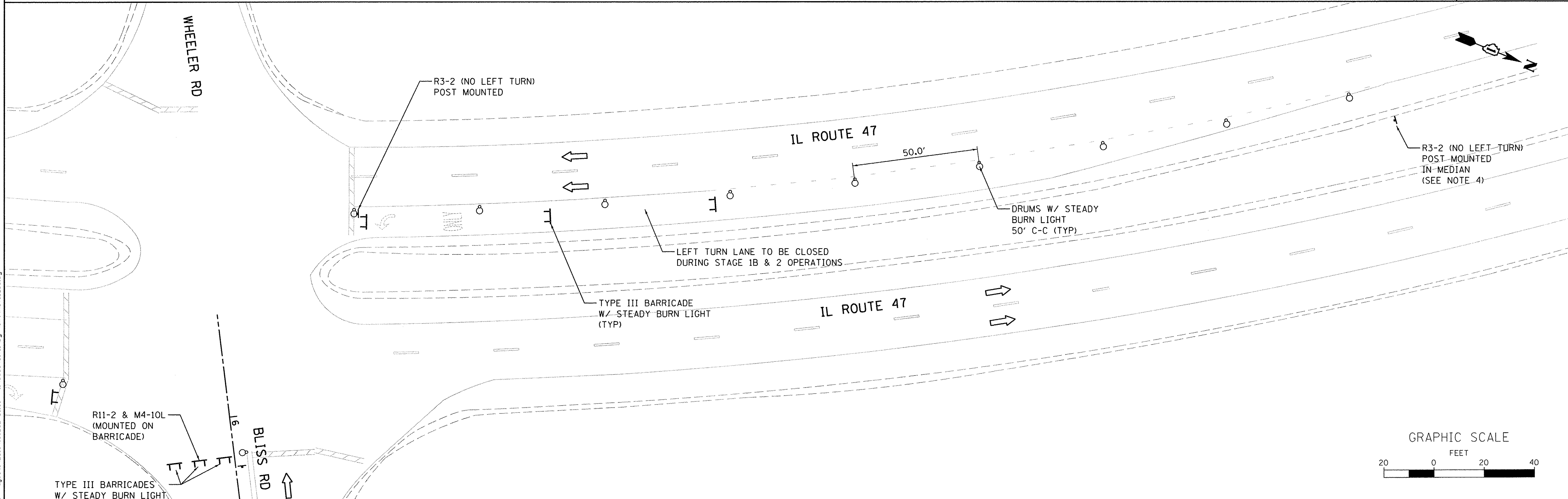
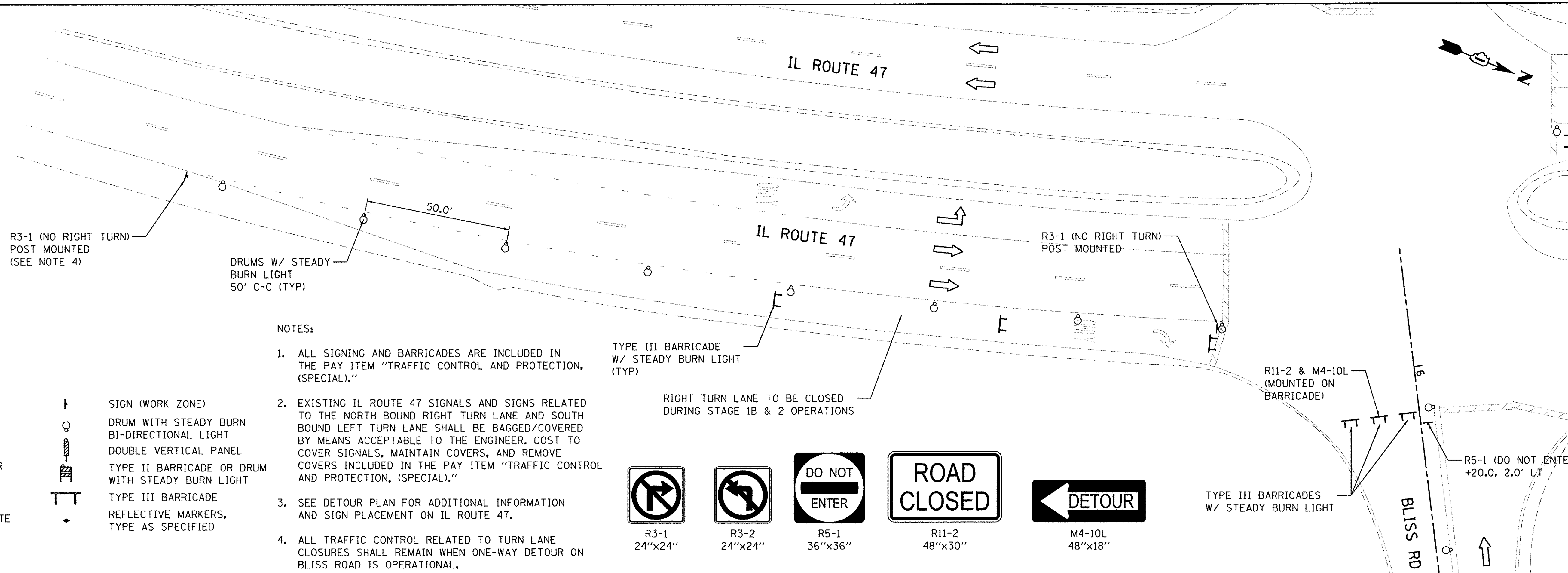
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PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DBP	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 STAGE 1B & STAGE 2 - CAPITOL DRIVE**

SCALE: 1"=20' SHEET NO. 7 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	58
CONTRACT NO.61D20				
ILLINOIS FED. AID PROJECT				



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 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

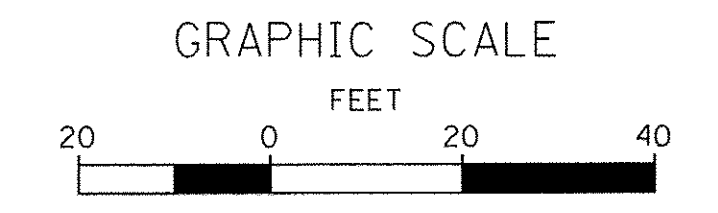
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PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DBP	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
 STAGE 1B & STAGE 2 - IL ROUTE 47**

SCALE: 1"=20' SHEET NO. 8 OF 11 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 59
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				



LEGEND

- WORK ZONE - STAGE 2 STA 14+00.0 TO 24+50.0
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER W/ REFLECTORS
- PAVEMENT MARKING REMOVAL
- (GR) GRINDING REMOVAL
- (WB) WATER BLASTING

- SIGN (WORK ZONE)
- DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- DOUBLE VERTICAL PANEL
- TYPE III BARRICADE
- REFLECTIVE MARKERS, TYPE AS SPECIFIED
- ARROW BOARD

G20-1103
60"x36"

END WORK ZONE SPEED LIMIT

STOP
R1-1
30"x30"

R3-1
24"x24"

R3-2
24"x24"

DO NOT ENTER
R5-1
36"x36"

ONE WAY
R6-1R
36"x12"

ONE WAY
R6-1L
36"x12"

END ONE WAY
R6-7
24"x30"

ROAD CLOSED
R11-2
48"x30"

W3-3
30"x30"

W1-4(0)
48"x48"

TYPE III BARRICADES W/ STEADY BURN LIGHT & R11-2 (ROAD CLOSED)
SUB-STAGE 2A OPEN DURING STAGE 2 & 2A OPERATIONS

MATCHLINE STA. 12+00.00

MATCHLINE STA. 18+00.00

R6-7 (END ONE WAY)
+20.0, 2.0' LT
FACING EAST

R5-1 (DO NOT ENTER)
+20.0, 2.0' LT
FACING WEST

TYPE III BARRICADES W/ STEADY BURN LIGHT (SEE SHEET 59)

NOTES:

1. SEE SHEET 59 FOR MAINTENANCE OF TRAFFIC PLANS FOR INTERSECTION AT IL ROUTE 47.
2. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE PAINT UNLESS OTHERWISE NOTED.
3. ALL SIGNING, BARRICADES AND REFERENCED IDOT STANDARDS ARE INCLUDED IN THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)."
4. ALL DEPRESSIONS, WITHIN THE DRIVE LANE, LEFT BY REMOVING PAVEMENT SELECTORS SHALL BE FILLED WITH EPOXY, AND SHALL BE INCLUDED IN THE REMOVAL ITEM.
5. BARRIER WALL MARKERS SHALL BE SPACED ON 25' C-C AND THERE SHALL BE 2 PER EACH LOCATION. SEE IDOT STD. 704001 & 782006.
6. ALL PAVEMENT MARKING REMOVAL BETWEEN STA. 6+00 AND STA. 10+35 SHALL BE WATER BLASTING AND ALL PAVEMENT MARKING REMOVAL BETWEEN STA. 10+35 AND STA. 28+50 SHALL BE GRINDING, UNLESS OTHERWISE NOTED IN THE PLANS.

SEE MAINTENANCE OF TRAFFIC PLAN SHEET 58 FOR STAGE 2 CAPITOL DRIVE TRAFFIC CONTROL

STAGE 2 STORM SEWER (SEE DRAINAGE PLAN & PROFILE SHEETS)

DRIVEWAY ENTRANCE SIGN, RIGHT ARROW (D1 STD, TC-26)
+10.0, 5.0' RT

SUB-STAGE 2A TYPE III BARRICADES W/ STEADY BURN LIGHT & R11-2 (ROAD CLOSED)

SUB-STAGE 2A CHURCH ENTRANCE TO BE OPEN DURING STAGE 2 OPERATIONS

DRIVEWAY ENTRANCE
RIGHT ARROW
D1 STD, TC-26
30"x30"

DRIVEWAY ENTRANCE
LEFT ARROW
D1 STD, TC-26
30"x30"

RELOCATE TEMP CONC BARRIER W/ BARRIER WALL MARKERS, TY C, 25' C-C (TYP)
STA 11+92.0 TO 18+00.0
4" WHITE TEMP PVMT MARKING
605 LF

W2-2
30"x30"

Capitol Drive
W16-8P VARIES

STAGE 3 TEMPORARY RAMP
22 SQ YD

STAGE 1A TEMP PVMT TO BE REMOVED

PROP GUARDRAIL & TERMINALS SHALL BE INSTALLED DURING STAGE 3

STAGE 3 TEMPORARY RAMP
17 SQ YD

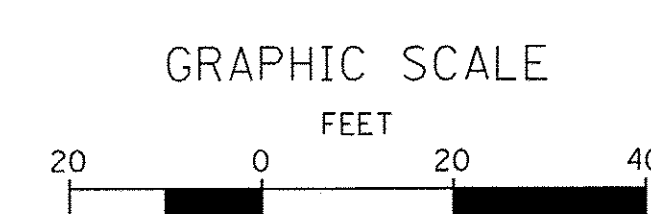
STAGE 1A TEMP PVMT TO BE REMOVED

STAGE 2 TEMPORARY RAMP
10 SQ YD

4" WHITE TEMP PVMT MARKING
287 LF

STAGE 2 TEMPORARY RAMP
10 SQ YD

RELOCATE TEMP CONC BARRIER W/ BARRIER WALL MARKERS, TY C, 25' C-C (TYP)
STA 16+65.4 TO 18+00.0 (GUARDRAIL AND END TERMINAL TO BE INSTALLED IN STAGE 3)



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WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparis	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 18/24/2016	CHECKED - DBP	REVISED -
	DATE - 8/8/16	REVISED -

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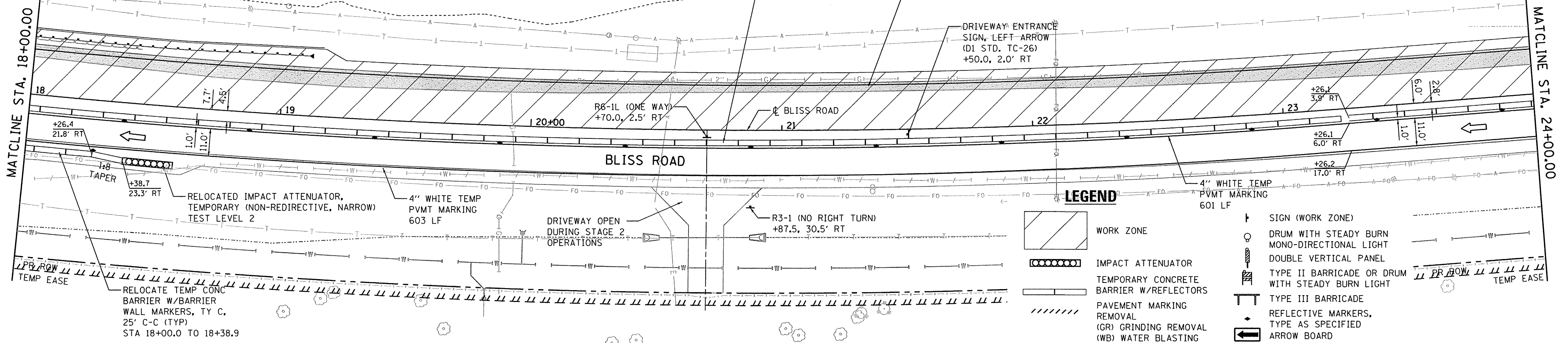
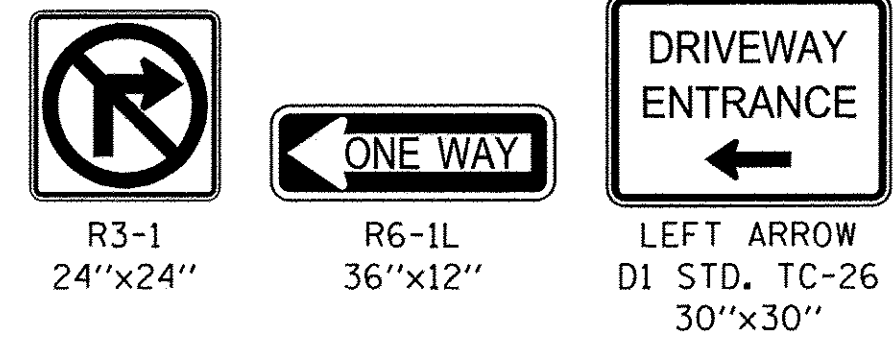
MAINTENANCE OF TRAFFIC
SUB-STAGE 2A & STAGE 2

SCALE: 1"=20'
SHEET NO. 9 OF 11 SHEETS
STA. 7+00.00 TO STA. 18+00.00

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 60
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

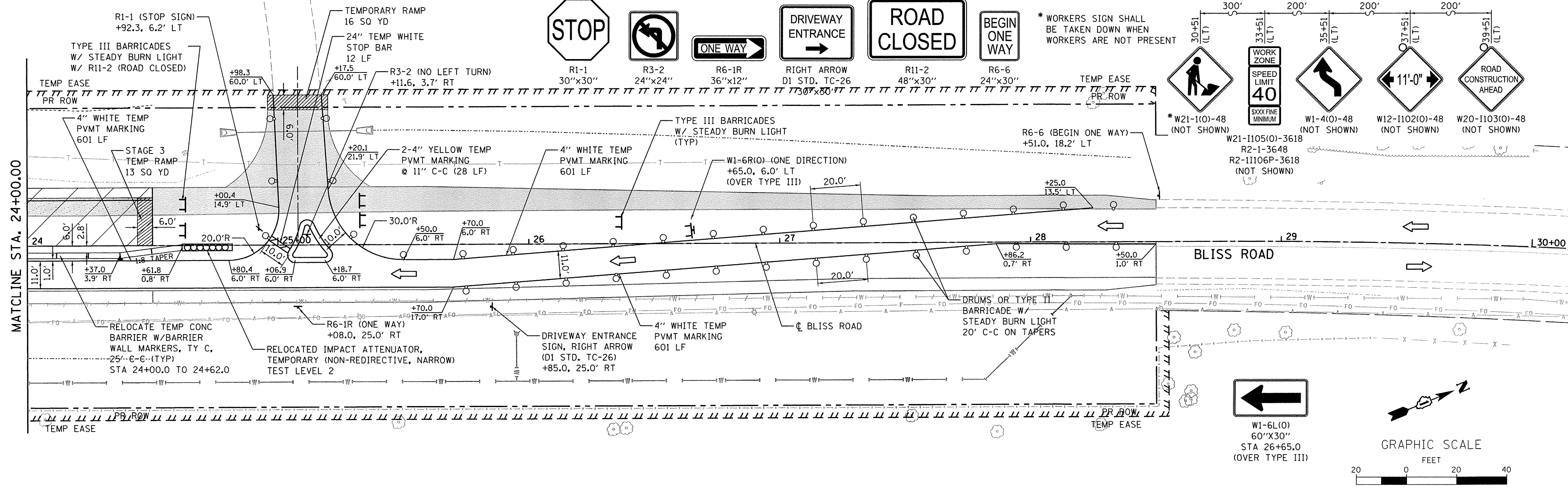
NOTES:

- ALL TEMPORARY PAVEMENT MARKINGS SHALL BE PAINT UNLESS OTHERWISE NOTED.
- ALL SIGNING, BARRICADES AND REFERENCED IDOT STANDARDS ARE INCLUDED IN THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
- BARRIER WALL MARKERS SHALL BE SPACED ON 25' C-C AND THERE SHALL BE 2 PER EACH LOCATION. SEE IDOT STD. 704001 & 782006.
- ALL PAVEMENT MARKING REMOVAL BETWEEN STA. 6+00 AND STA. 10+35 SHALL BE WATER BLASTING AND ALL PAVEMENT MARKING REMOVAL BETWEEN STA. 10+35 AND STA. 28+50 SHALL BE GRINDING, UNLESS OTHERWISE NOTED IN THE PLANS.



LEGEND

- WORK ZONE
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER W/REFLECTORS
- PAVEMENT MARKING REMOVAL (GR) GRINDING REMOVAL (WB) WATER BLASTING
- SIGN (WORK ZONE)
- DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- DOUBLE VERTICAL PANEL
- TYPE II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- TYPE III BARRICADE
- REFLECTIVE MARKERS, TYPE AS SPECIFIED
- ARROW BOARD



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WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nporris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DBP	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE 2**

SCALE: 1"=20' SHEET NO. 10 OF 11 SHEETS STA. 18+00.00 TO STA. 28+50.00

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 61
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

LEGEND

- WORK ZONE - STAGE 2
STA 14+00.0 TO 24+50.0
- IMPACT ATTENUATOR
- TEMPORARY CONCRETE BARRIER W/ REFLECTORS
- PAVEMENT MARKING REMOVAL
(GR) GRINDING REMOVAL
(WB) WATER BLASTING
- SIGN (WORK ZONE)
- DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- DOUBLE VERTICAL PANEL
- TYPE III BARRICADE
- REFLECTIVE MARKERS, TYPE AS SPECIFIED
- ARROW BOARD

G20-I103
60"x36"
END WORK ZONE SPEED LIMIT

STOP
R1-1
30"x30"

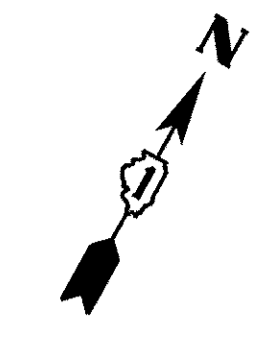
R3-2
24"x24"

DO NOT ENTER
R5-1
36"x36"

ONE WAY
R6-1R
36"x12"

ROAD CLOSED
R11-2
48"x30"

DRIVEWAY ENTRANCE
RIGHT ARROW
D1 STD. TC-26
30"x30"



SUB-STAGE 2A OPEN DURING STAGE 2 OPERATIONS

MATCHLINE STA. 12+00.00

BLISS ROAD

NOTES:

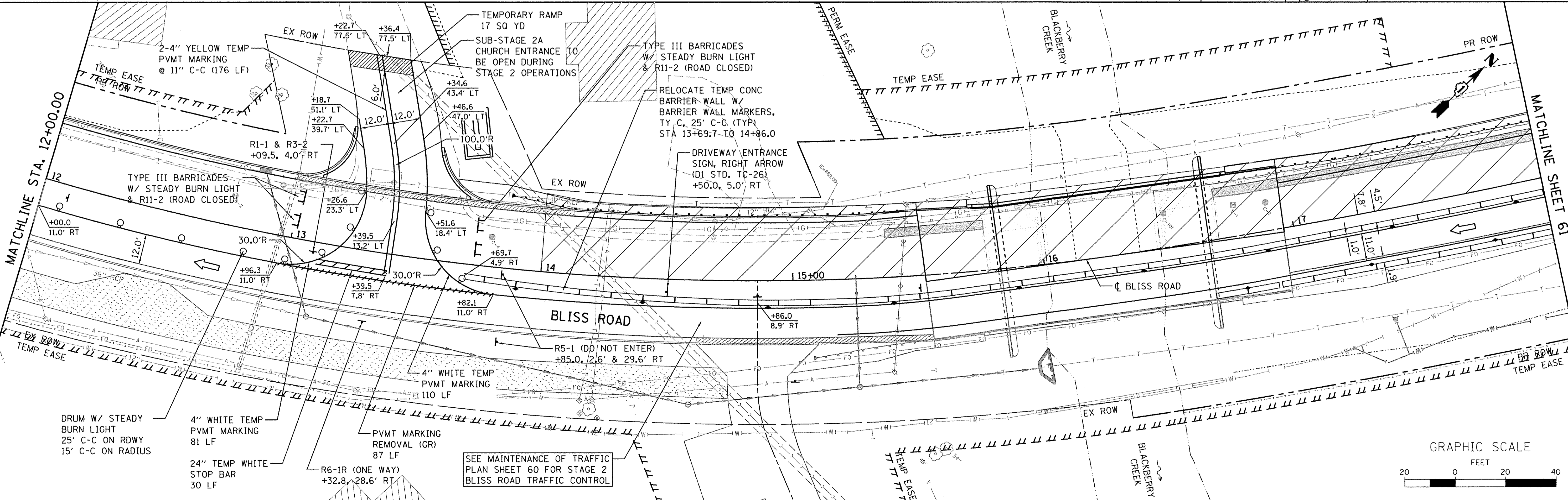
1. SEE SHEET 59 FOR MAINTENANCE OF TRAFFIC PLANS FOR INTERSECTION AT IL ROUTE 47.
2. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE PAINT UNLESS OTHERWISE NOTED.
3. ALL SIGNING, BARRICADES AND REFERENCED IDOT STANDARDS ARE INCLUDED IN THE PAY ITEM "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)."
4. ALL DEPRESSIONS, WITHIN THE DRIVE LANE, LEFT BY REMOVING PAVEMENT REFLECTORS SHALL BE FILLED WITH EPOXY, AND SHALL BE INCLUDED IN THE REMOVAL ITEM.
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6. ALL PAVEMENT MARKING REMOVAL BETWEEN STA. 6+00 AND STA. 10+35 SHALL BE WATER BLASTING AND ALL PAVEMENT MARKING REMOVAL BETWEEN STA. 10+35 AND STA. 28+50 SHALL BE GRINDING, UNLESS OTHERWISE NOTED IN THE PLANS.

W1-6R(O) (ONE DIRECTION)
+25.0, 25.0' RT
(OVER TYPE III)

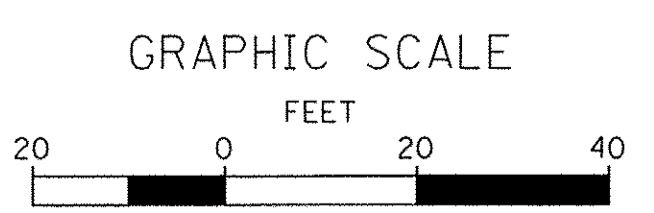
W1-6R(O)
60"x30"
STA 9+25.0
(OVER TYPE III)

SEE MAINTENANCE OF TRAFFIC PLAN SHEET 60 FOR STAGE 2 BLISS ROAD TRAFFIC CONTROL

SEE MAINTENANCE OF TRAFFIC PLAN SHEET 58 FOR STAGE 2 CAPITOL DRIVE TRAFFIC CONTROL



MATCHLINE SHEET 61



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WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nporris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
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	DATE - 8/8/16	REVISED -

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DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC
STAGE 2 (POST SUB-STAGE 2A)**

SCALE: 1"=20' SHEET NO. 11 OF 11 SHEETS STA. 7+00.00 TO STA. 18+00.00

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 62
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

TREE PROTECTION NOTES:

1. TREE TRUNK PROTECTION HAS BEEN PROVIDED FOR IN THE PLANS FOR TREES DEEMED NEEDING PROTECTION. THE LOCATIONS ARE SHOWN ON THE EROSION AND REMOVAL PLANS. AN ADDITIONAL NOMINAL QUANTITY HAS BEEN INCLUDED IN THE PLANS TO BE USED AT THE ENGINEER'S DISCRETION.
2. A NOMINAL QUANTITY OF 200 LINEAL FEET OF TEMPORARY FENCE HAS BEEN ADDED TO THE PLANS WHERE ADDITIONAL PROTECTION IS REQUIRED. THE NEED FOR TEMPORARY FENCING WILL BE AT THE ENGINEER'S DISCRETION.

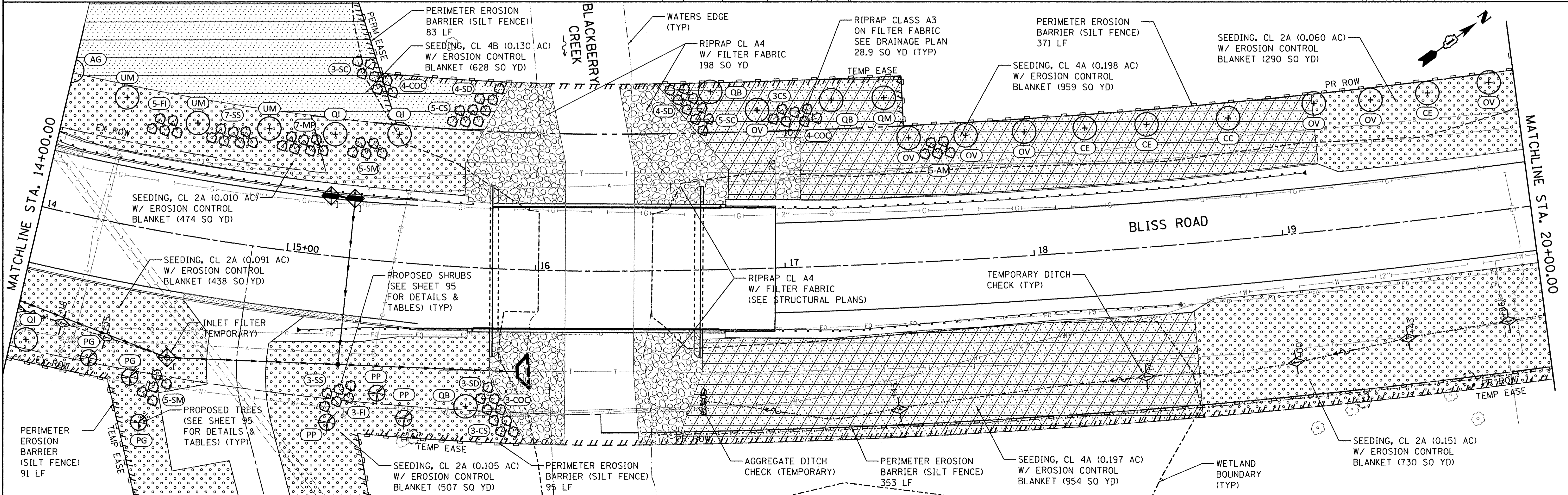
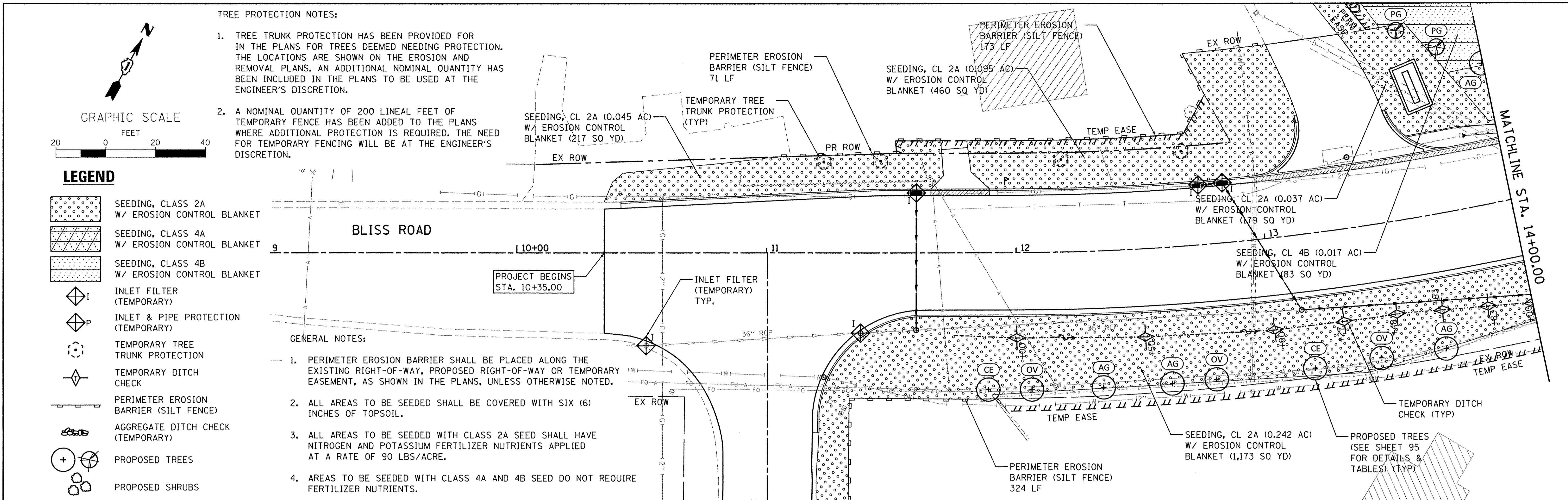
GRAPHIC SCALE
FEET
20 0 20 40

LEGEND

- SEEDING, CLASS 2A W/ EROSION CONTROL BLANKET
- SEEDING, CLASS 4A W/ EROSION CONTROL BLANKET
- SEEDING, CLASS 4B W/ EROSION CONTROL BLANKET
- INLET FILTER (TEMPORARY)
- INLET & PIPE PROTECTION (TEMPORARY)
- TEMPORARY TREE TRUNK PROTECTION
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER (SILT FENCE)
- AGGREGATE DITCH CHECK (TEMPORARY)
- PROPOSED TREES
- PROPOSED SHRUBS

GENERAL NOTES:

1. PERIMETER EROSION BARRIER SHALL BE PLACED ALONG THE EXISTING RIGHT-OF-WAY, PROPOSED RIGHT-OF-WAY OR TEMPORARY EASEMENT, AS SHOWN IN THE PLANS, UNLESS OTHERWISE NOTED.
2. ALL AREAS TO BE SEEDED SHALL BE COVERED WITH SIX (6) INCHES OF TOPSOIL.
3. ALL AREAS TO BE SEEDED WITH CLASS 2A SEED SHALL HAVE NITROGEN AND POTASSIUM FERTILIZER NUTRIENTS APPLIED AT A RATE OF 90 LBS/ACRE.
4. AREAS TO BE SEEDED WITH CLASS 4A AND 4B SEED DO NOT REQUIRE FERTILIZER NUTRIENTS.



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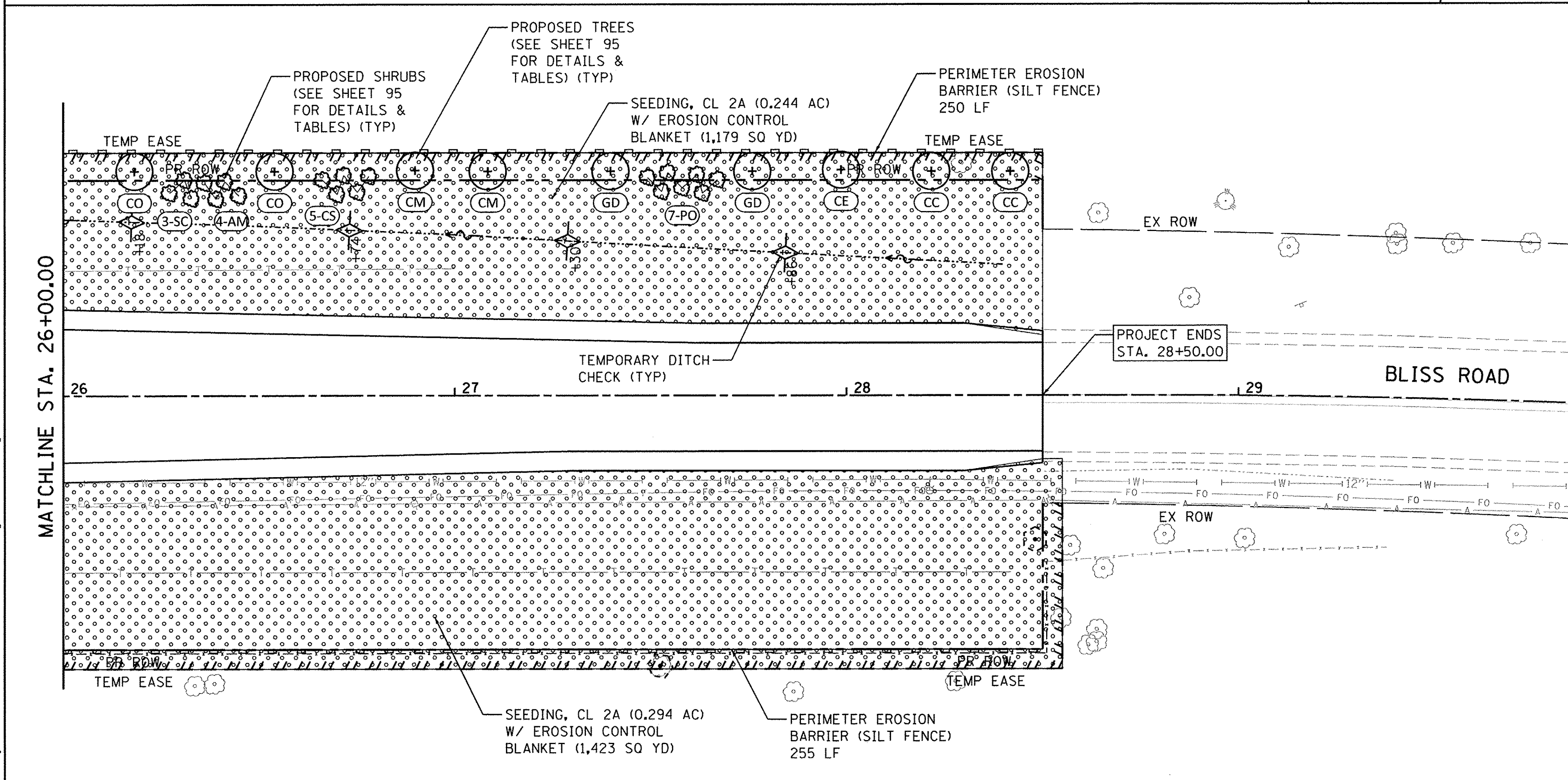
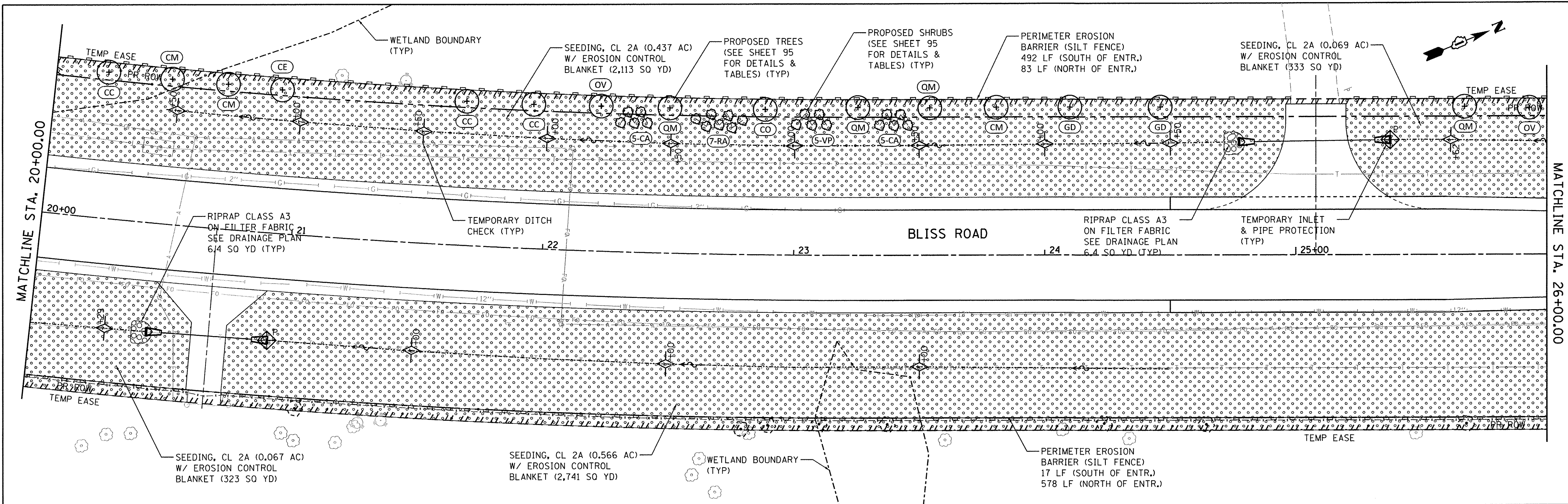
WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED - NMP/LJL	REVISED - 10/17/16
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL,
SEEDING & LANDSCAPING PLAN**
SCALE: 1"=20'
SHEET NO. 1 OF 7 SHEETS
STA. 10+35.00 TO STA. 20+00.00

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 63
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

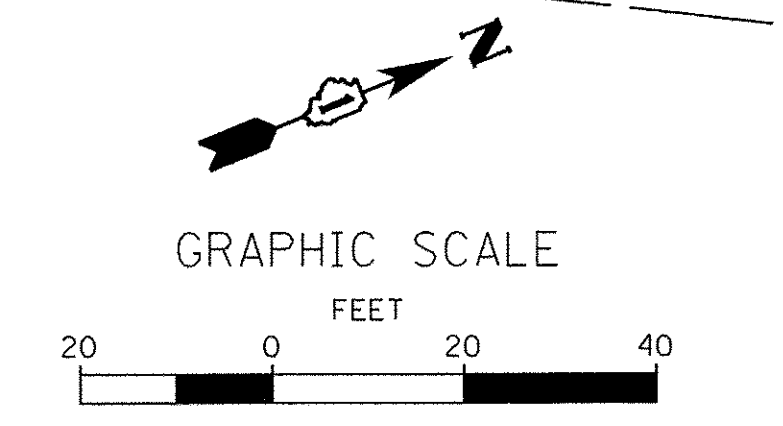


- GENERAL NOTES:**
- PERIMETER EROSION BARRIER SHALL BE PLACED ALONG THE EXISTING RIGHT-OF-WAY, PROPOSED RIGHT-OF-WAY OR TEMPORARY EASEMENT, AS SHOWN IN THE PLANS, UNLESS OTHERWISE NOTED.
 - ALL AREAS TO BE SEEDDED SHALL BE COVERED WITH SIX (6) INCHES OF TOPSOIL.
 - ALL AREAS TO BE SEEDDED WITH CLASS 2A SEED SHALL HAVE NITROGEN AND POTASSIUM FERTILIZER NUTRIENTS APPLIED AT A RATE OF 90 LBS/ACRE.
 - AREAS TO BE SEEDDED WITH CLASS 4A AND 4B SEED DO NOT REQUIRE FERTILIZER NUTRIENTS.

LEGEND

- SEEDING, CLASS 2A W/ EROSION CONTROL BLANKET
- SEEDING, CLASS 4A W/ EROSION CONTROL BLANKET
- SEEDING, CLASS 4B W/ EROSION CONTROL BLANKET
- INLET FILTER (TEMPORARY)
- INLET & PIPE PROTECTION (TEMPORARY)
- TEMPORARY TREE TRUNK PROTECTION
- TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER (SILT FENCE)
- AGGREGATE DITCH CHECK (TEMPORARY)
- PROPOSED TREES
- PROPOSED SHRUBS

- TREE PROTECTION NOTES:**
- TREE TRUNK PROTECTION HAS BEEN PROVIDED FOR IN THE PLANS FOR TREES DEEMED NEEDING PROTECTION. THE LOCATIONS ARE SHOWN ON THE EROSION AND REMOVAL PLANS. AN ADDITIONAL NOMINAL QUANTITY HAS BEEN INCLUDED IN THE PLANS TO BE USED AT THE ENGINEER'S DISCRETION.
 - A NOMINAL QUANTITY OF 200 LINEAL FEET OF TEMPORARY FENCING HAS BEEN ADDED TO THE PLANS WHERE ADDITIONAL PROTECTION IS REQUIRED. THE NEED FOR TEMPORARY FENCING WILL BE AT THE ENGINEER'S DISCRETION.



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WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nparris	DESIGNED - NMP/LJL	REVISED - 10/17/16
PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL,
 SEEDING & LANDSCAPING PLAN**

SCALE: 1"=20' SHEET NO. 2 OF 7 SHEETS STA. 20+00.00 TO STA. 28+50.00

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 64
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

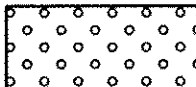
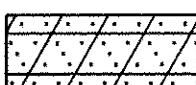
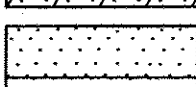




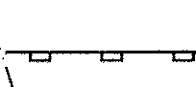



PERMIMETER EROSION BARRIER NOTES:

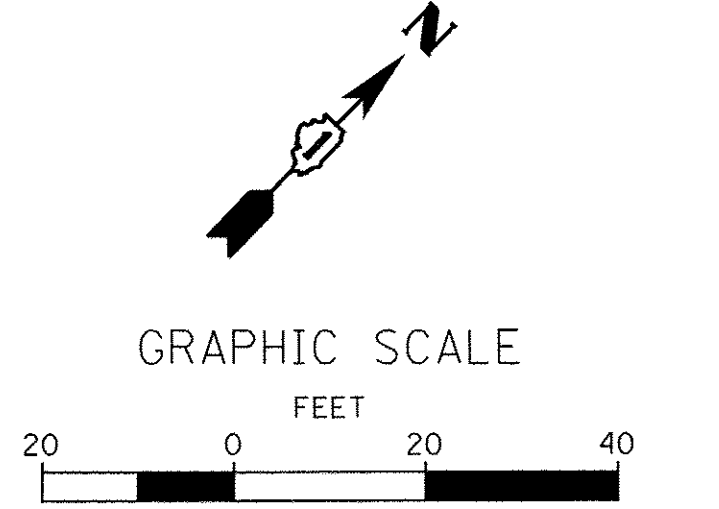
1. PERMIMETER EROSION BARRIER SHALL BE PLACED ALONG THE EXISTING RIGHT-OF-WAY, PROPOSED RIGHT-OF-WAY OR TEMPORARY EASEMENT, AS SHOWN IN THE PLANS, UNLESS OTHERWISE NOTED.

CONTRACTOR ACCESS:

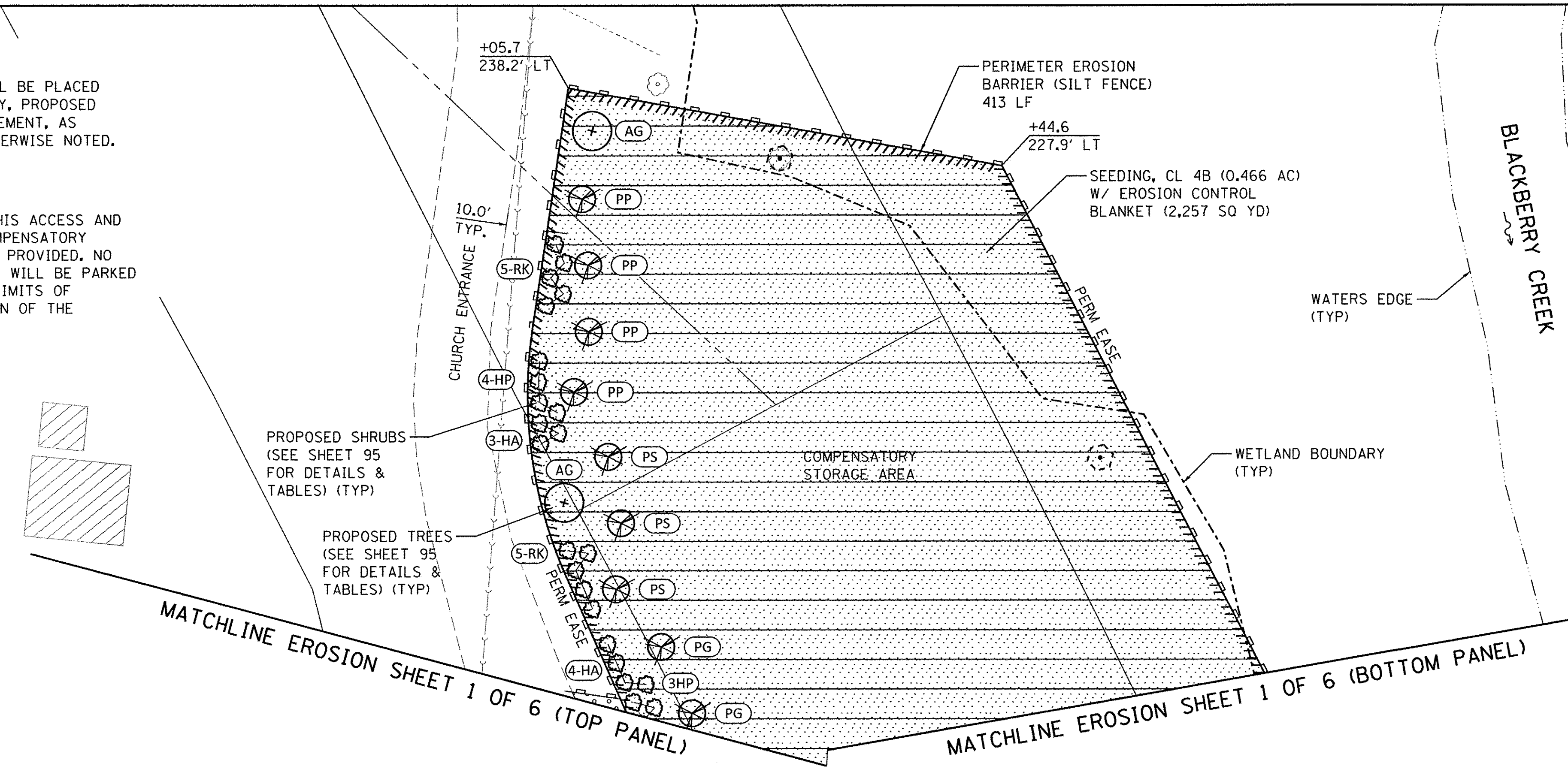
1. THE CONTRACTOR SHALL CONTAIN HIS ACCESS AND GRADING OPERATIONS FOR THE COMPENSATORY STORAGE AREAS TO THE EASEMENT PROVIDED. NO EQUIPMENT OR PERSONAL VEHICLES WILL BE PARKED ON PRIVATE PARTY OUTSIDE THE LIMITS OF CONSTRUCTION WITHOUT PERMISSION OF THE ENGINEER.

LEGEND

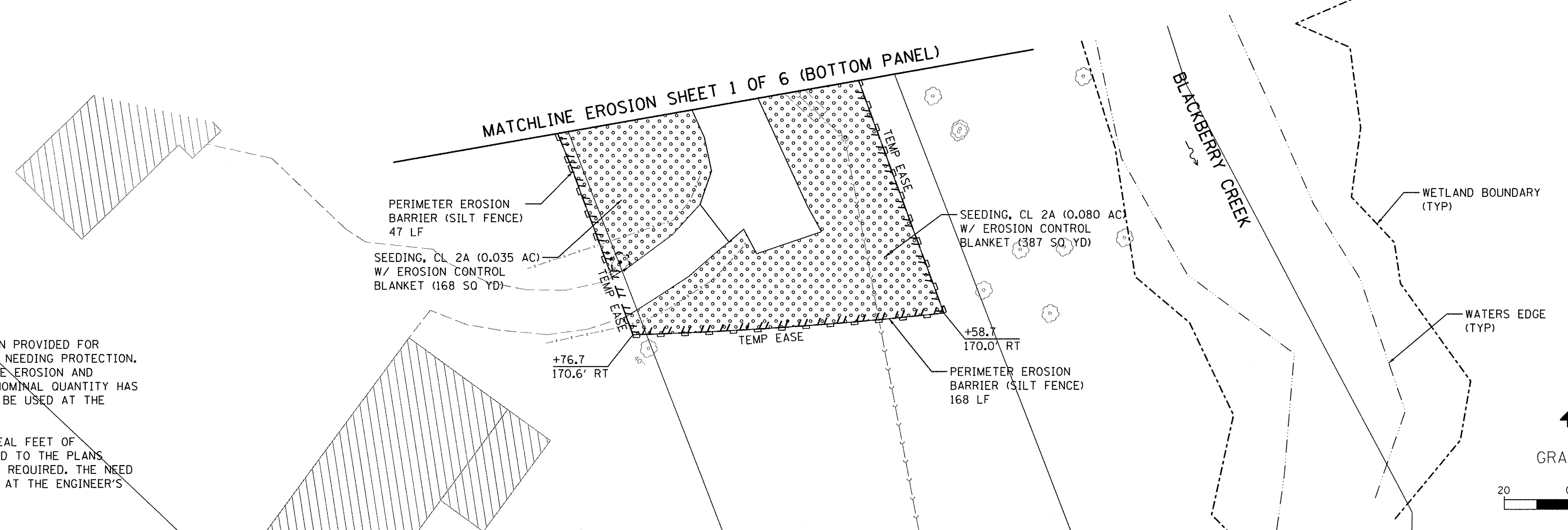
-  SEEDING, CLASS 2A W/ EROSION CONTROL BLANKET
-  SEEDING, CLASS 4A W/ EROSION CONTROL BLANKET
-  SEEDING, CLASS 4B W/ EROSION CONTROL BLANKET
-  I INLET FILTER (TEMPORARY)
-  P INLET & PIPE PROTECTION (TEMPORARY)
-  TEMPORARY FENCE (TREE PROTECTION)
-  TEMPORARY DITCH CHECK
-  PERIMETER EROSION BARRIER (SILT FENCE)
-  AGGREGATE DITCH CHECK (TEMPORARY)
-  PROPOSED TREES
-  PROPOSED SHRUBS



MATCHLINE EROSION SHEET 1 OF 6 (TOP PANEL) MATCHLINE EROSION SHEET 1 OF 6 (BOTTOM PANEL)

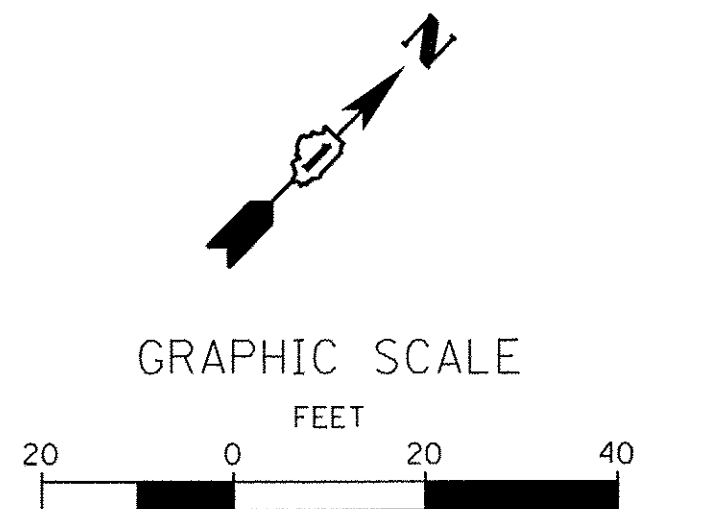


MATCHLINE EROSION SHEET 1 OF 6 (BOTTOM PANEL)



TREE PROTECTION NOTES:

1. TREE TRUNK PROTECTION HAS BEEN PROVIDED FOR IN THE PLANS FOR TREES DEEMED NEEDING PROTECTION. THE LOCATIONS ARE SHOWN ON THE EROSION AND REMOVAL PLANS. AN ADDITIONAL NOMINAL QUANTITY HAS BEEN INCLUDED IN THE PLANS TO BE USED AT THE ENGINEER'S DISCRETION.
2. A NOMINAL QUANTITY OF 200 LINEAL FEET OF TEMPORARY FENCE HAS BEEN ADDED TO THE PLANS WHERE ADDITIONAL PROTECTION IS REQUIRED. THE NEED FOR TEMPORARY FENCING WILL BE AT THE ENGINEER'S DISCRETION.



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WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED - NMP/LJL	REVISED - 10/17/16
PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL,
SEEDING & LANDSCAPING PLAN**

SCALE: SHEET NO. 3 OF 7 SHEETS STA. 10+35.00 TO STA. 20+00.00

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 65
CONTRACT NO. 61D20				
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 CIRCUMSTANCES 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 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 BARRIER (SILT FENCE) SHALL BE PLACED AT THE LOCATIONS SHOWN ON THE PLANS. THE PERIMETER EROSION CONTROL BARRIER SHALL BE CONSTRUCTED AS DETAILED ON THE PLANS AND AS SPECIFIED IN SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

STOCKPILE LOCATIONS AND PROTECTING STOCK PILE AREAS

STOCKPILES 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 STOCKPILE MATERIAL. STAGING OF THE PROJECT IS AT THE 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

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

PERMANENT STABILIZATION OF THE CONSTRUCTION AREA SHALL BE COMPLETED WITHIN 7 DAYS OF FINAL GRADING.

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. SEE ADDITIONAL IN-STREAM NOTES.

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.

DEWATERING AND FILTERING BAG SYSTEMS REQUIRED 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.

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.

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.

CONCRETE WASHOUT

A CONCRETE WASHOUT IS NEEDED FOR THIS PROJECT. IT SHOULD BE DRAWN ON THESE PLANS BY THE CONTRACTOR AT THE TIME OF INSTALLATION. WASHOUTS ARE TO BE CONSTRUCTED AND MAINTAINED IN A MANNER CONSISTENT WITH THE DETAILS ON THE PLANS AND THE LATEST EDITION OF THE ILLINOIS URBAN MANUAL.

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

- A. CLASS 2A
 - B. CLASS 4A
CLASS 4B
 - C. INCREASE SEEDING RATES BY 25% WHEN DORMANT SEEDING (NOT ANTICIPATED)
 - D. TEMPORARY SEEDING (PERENNIAL RYE GRASS, SPRING OATS)
 - E. EROSION CONTROL BLANKET (PERMANENT SEED AREAS ONLY)
 - F. MULCH, METHOD 3 (EROSION CONTROL BARE EARTH)
- * 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.

WATERWAY INFORMATION

Drainage Area = 26 sq. mi.							
Flood	Freq. Yr.	0 C.F.S.	Opening Exist.	Sq Ft Prop.	H.W.E. H.W.E.	Head - Ft. Exist	Headwater El. Prop.
	2	451	241		684.65	0.15	684.8

2-Year Velocity through Existing Bridge = 2.08 ft/s

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) 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.
- G) 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.
- H) ALL DROP INLETS ON AND ADJACENT TO THE SITE MUST HAVE SEDIMENT TRAPPING OR CONTAINMENT DEVICE INSTALLED DURING CONSTRUCTION ACTIVITIES. FILTER FABRIC ON ITS OWN IS NOT AN APPROVED METHOD. PREFABRICATED DROP INLET PROTECTION SHOULD BE AS RESTRICTIVE AS THE ILLINOIS URBAN MANUAL STANDARD 861 FOR INLET PROTECTION.

CONTRACTOR SUBMITTAL

MEANS AND METHODS TO CONSTRUCT THE BRIDGE, CHANNEL AND OTHER APPURTENANT WORK IS THE CONTRACTORS RESPONSIBILITY. THE CONTRACTOR IS REQUIRED TO SUBMIT TO KDSWCD FOR APPROVAL ALL DRAWINGS AND/OR DETAILS SHOWING THE EXACT SEQUENCING, METHODS, AND LOCATIONS OF THE COFFERDAMS WHICH WILL INCLUDE DEWATERING AND FILTRATION METHODS.

IN-STREAM NOTES

SEE SHEET 67 FOR ADDITIONAL NOTES.

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USER NAME = nparriss	DESIGNED - NMP/LJL	REVISED - 10/17/16
PLOT SCALE = 1:10	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL & SEEDING NOTES	
SCALE:	SHEET NO. 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 66
CONTRACT NO.61D20				
ILLINOIS FED. AID PROJECT				

IN-STREAM WORK

- A. WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS. LOW FLOW CONDITIONS ARE FLOW AT OR BELOW THE NORMAL WATER ELEVATION.
- B. THE PLAN WILL BE DESIGNED TO ALLOW FOR THE CONVEYANCE OF THE 2-YEAR PEAK FLOW PAST THE WORK AREA WITHOUT OVERTOPPING THE COFFERDAM. THE CORPS HAS THE DISCRETION TO REDUCE THIS REQUIREMENT IF DOCUMENTED BY THE APPLICANT TO BE INFEASIBLE OR UNNECESSARY.
- C. WATER SHALL BE ISOLATED FROM THE IN-STREAM WORK AREA USING A COFFERDAM CONSTRUCTED OF NON-ERODIBLE MATERIALS (STEEL SHEETS, AQUA BARRIERS, RIPRAP AND GEOTEXTILE LINER, ETC.). EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.
- D. THE COFFERDAM MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER FLOWING WATER AT ANY TIME. IF THE INSTALLATION OF THE COFFERDAM CANNOT BE COMPLETED FROM SHORE AND ACCESS IS NEEDED TO REACH THE AREA TO BE COFFERED, OTHER MEASURES, SUCH AS THE CONSTRUCTION OF A CAUSEWAY WILL BE NECESSARY TO ENSURE THAT EQUIPMENT DOES NOT ENTER THE WATER. ONCE THE COFFERDAM IS IN PLACE AND THE ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.
- E. IF BYPASS PUMPING IS NECESSARY, THE INTAKE HOSE SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM ENTERING THE HOSE. THE BYPASS DISCHARGE SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION. FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT-LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES.
- F. DURING DEWATERING OF THE COFFERED WORK AREA, ALL SEDIMENT-LADEN WATER MUST BE FILTERED TO REMOVE SEDIMENT. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS SYSTEMS, DEWATERING BAGS, OR OTHER APPROPRIATE METHODS. WATER SHALL HAVE SEDIMENT REMOVED PRIOR TO BEING RE-INTRODUCED TO THE DOWNSTREAM WATERWAY. A STABILIZED CONVEYANCE FROM THE DEWATERING DEVICE TO THE WATERWAY MUST BE IDENTIFIED IN THE PLAN. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY.
- G. THE AREA FROM THE TOE TO THE TOP OF THE SIDE SLOPE SHALL BE TEMPORARILY STABILIZED DURING CONSTRUCTION TO REDUCE THE POTENTIAL FOR EROSION. ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PROPOSED CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.

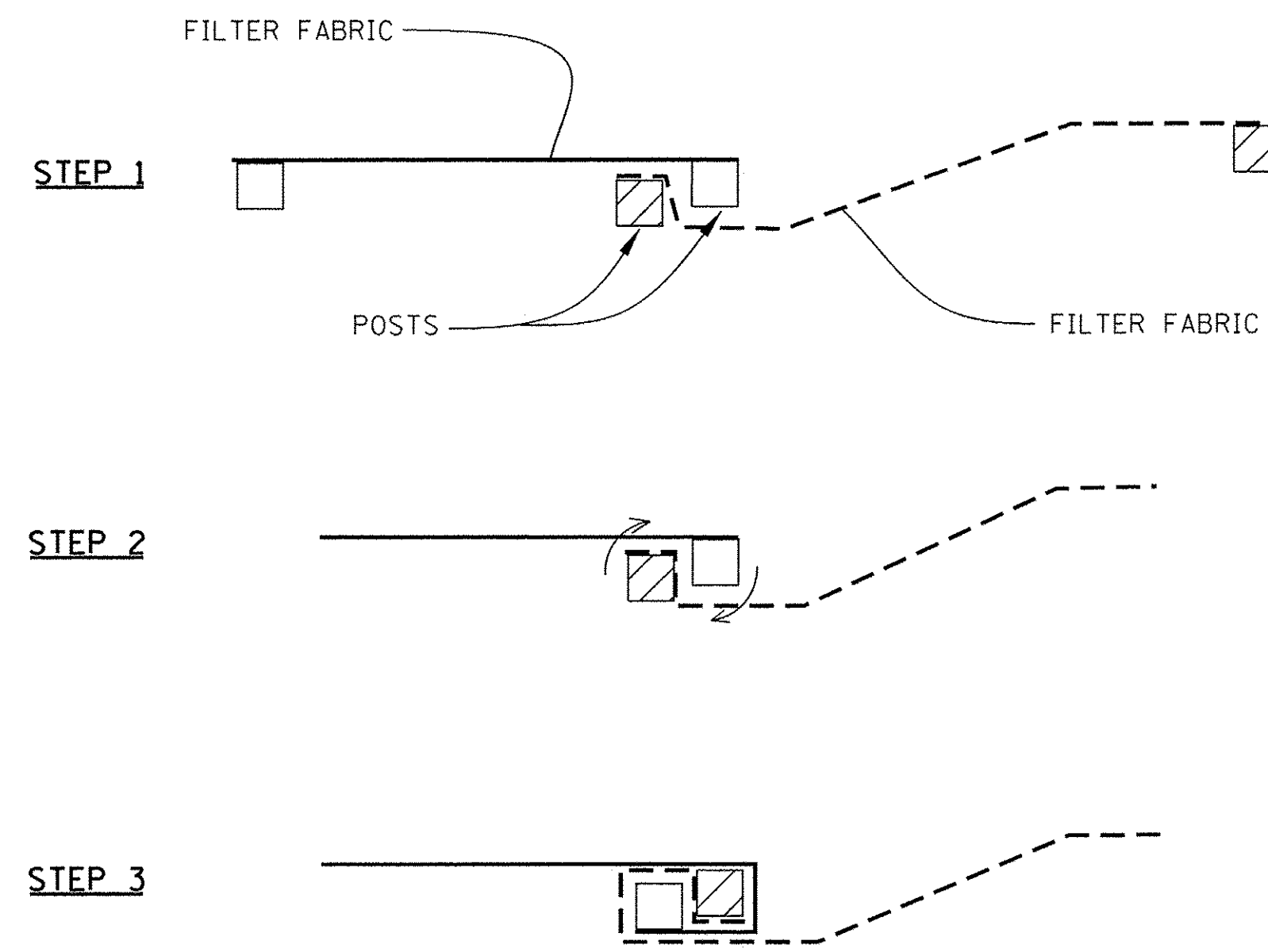
DIVERSION AND DEWATERING

DIVERSION AND DEWATERING WORK SHALL CONSIST OF FURNISHING ALL LABOR, TOOLS, EQUIPMENT, AND MATERIALS TO INSTALL, MAINTAIN, AND OPERATE ALL NECESSARY DEWATERING SYSTEMS TO DIVERT, REMOVE WATER FROM THE CHANNEL REACH OR DESIGNED TO CONTROL SEDIMENT DISCHARGE IN DEWATERING APPLICATIONS WHERE WATER IS BEING PUMPED FOR THE CONSTRUCTION OF THE PROPOSED BRIDGE, HEADWALLS, STONE RIP RAP CHANNEL LINING AND OTHER WORK ASSOCIATED WITH CONSTRUCTION OF THE BRIDGE TO ASSURE THE WORK CAN BE COMPLETED IN THE DRY OR IN MANAGEABLE CONDITIONS AS APPROVED BY THE ENGINEER.

THIS ITEM WILL ALSO CONSIST OF CONSTRUCTING A DEWATERING FILTERING SYSTEM CONSISTING OF FILTRATION OR SEDIMENT BAGS FOR COLLECTING SEDIMENT FROM PUMPING OPERATIONS WITHIN COFFER DAMS AND SUMP PITS. CONSTRUCTION WATERS WILL INCLUDE, BUT NOT BE LIMITED TO, ALL WATERS GENERATED FROM THE INSTALLATION OF BRIDGE, HEADWALLS, DRAINAGE SYSTEMS, FOOTING AND AGGREGATE BASE CONSTRUCTION.

DIVERSION & DEWATERING - BASIS OF PAYMENT

ALL WORK REQUIRED TO PROVIDE FOR THE DEWATERING AND/OR DIVERSION SYSTEMS FOR THE CONSTRUCTION OF THE BRIDGE, HEADWALLS, CHANNEL AND BANK STABILIZATION SHALL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF THE "CONCRETE BOX CULVERT", WHICH WORK SHALL INCLUDE MEANS AND METHODS FOR DESIGN OF COFFERDAMS, BARRIER WALL, FILTER FABRIC, PIPING, PUMPING, FOUNDATION PREPARATION, FRAMING AND SUPPORTS, DEWATERING FILTERING SYSTEM CONSISTING OF FILTRATION OR SEDIMENT BAGS, INSTALLATION, MAINTENANCE, REMOVAL OF SYSTEMS AND ALL LABOR, MATERIAL, AND EQUIPMENT NEEDED TO PERFORM THE WORK DESCRIBED HEREIN AND AS SPECIFIED ON THE PLANS.



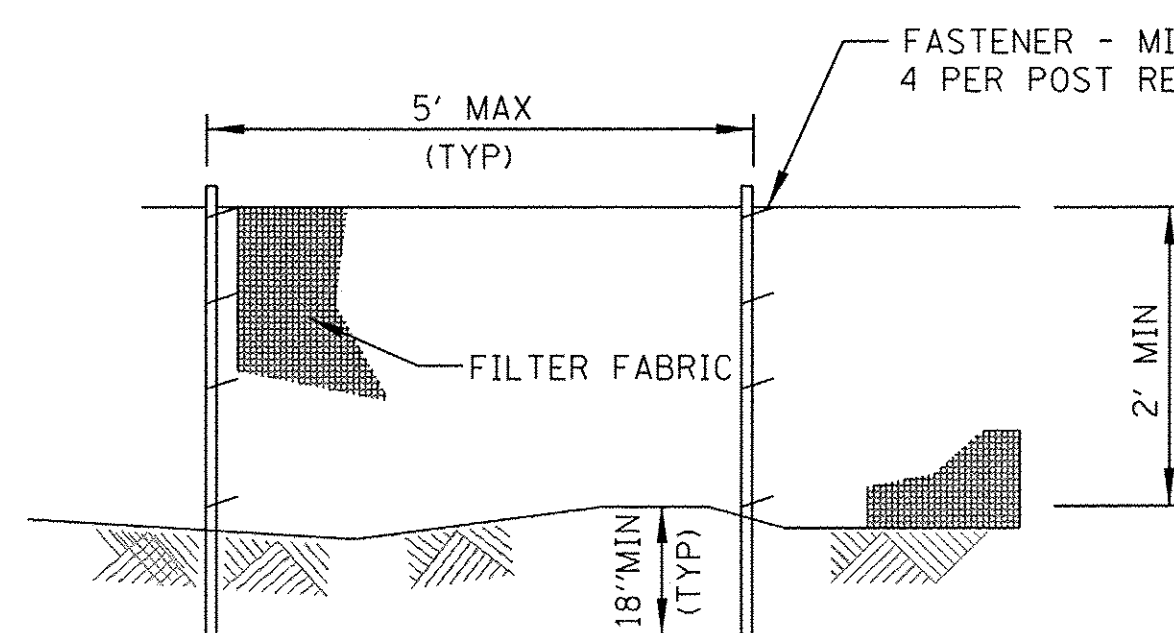
ATTACHING TWO SILT FENCES

PERIMETER EROSION BARRIER NOTES:

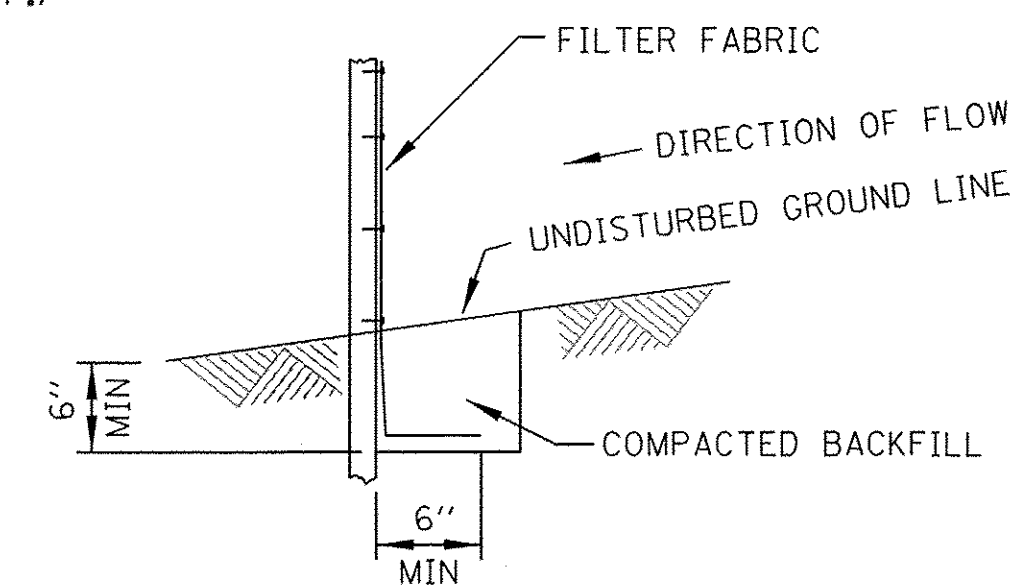
- 1. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.
- 2. ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.
- 3. CUT THE FABRIC NEAR THE BOTTOM OF THE STAKES TO ACCOMMODATE THE 6" FLAP.
- 4. DRIVE BOTH POSTS A MINIMUM OF 18 INCHES INTO THE GROUND AND BURY THE FLAP.
- 5. COMPACT BACKFILL (PARTICULARLY AT SPLICES) COMPLETELY TO PREVENT STORMWATER PIPING.

PERIMETER EROSION BARRIER (SILT FENCE) – SPLICING TWO FENCES

STD. IUM-620B
(SILT FENCE - SPLICING TWO FENCES)



ELEVATION

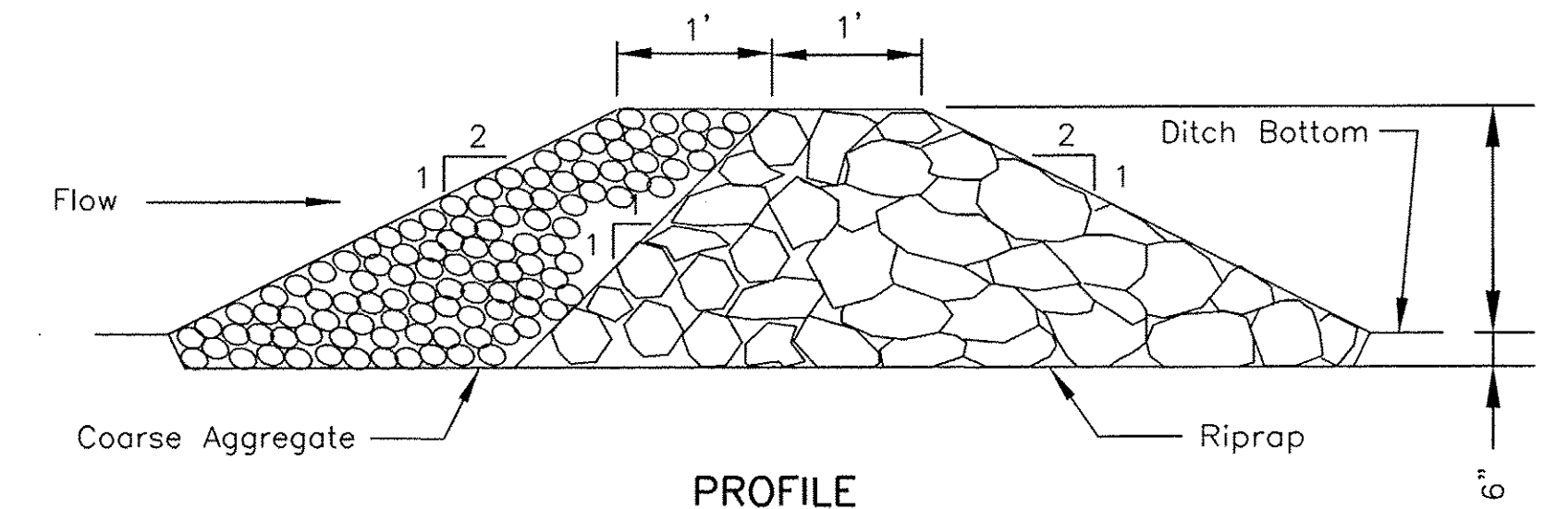


FABRIC ANCHOR DETAIL

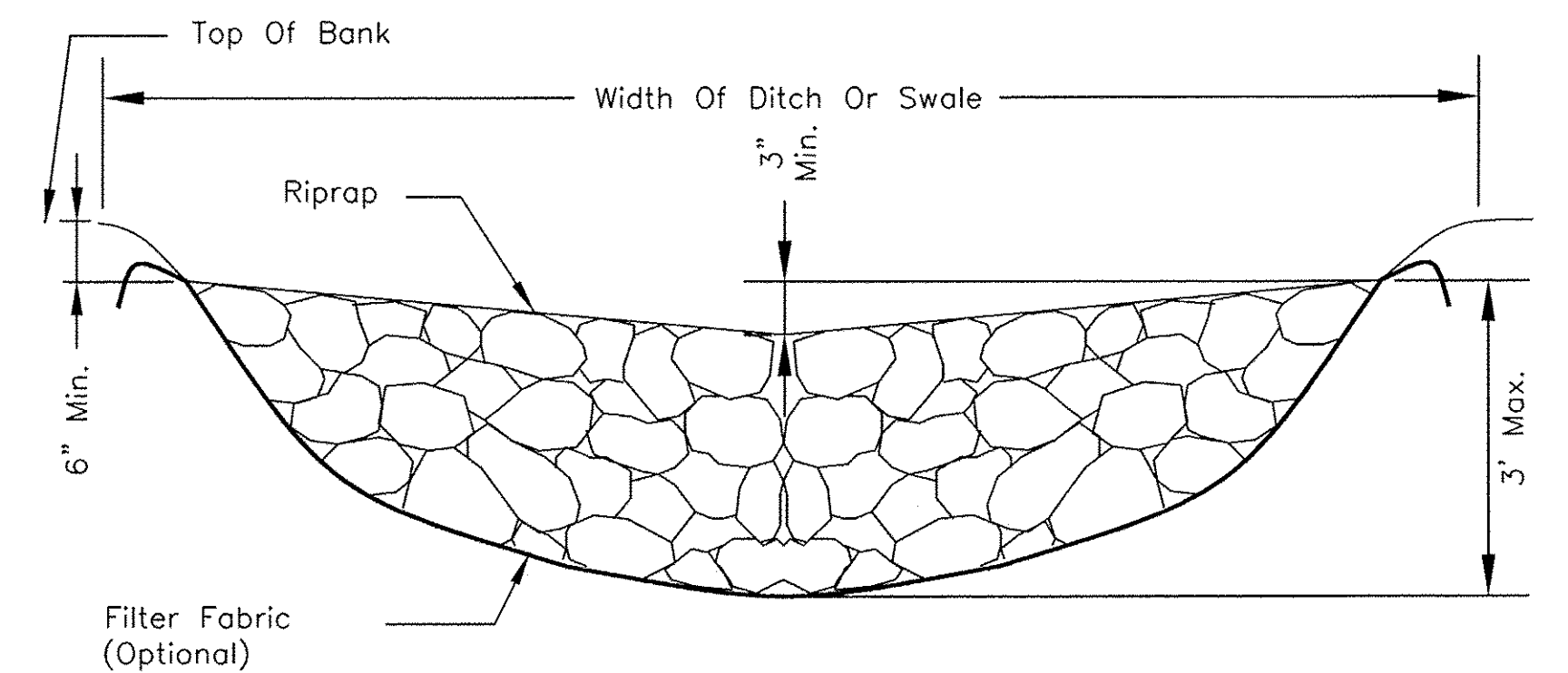
PERIMETER EROSION BARRIER

(SILT FENCE)

STD. IUM-620A
(SILT FENCE PLAN)



PROFILE



CROSS SECTION CENTERLINE LOOKING DOWNSTREAM

AGGREGATE DITCH CHECK NOTES:

- 1. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE, TABLE 1 OR 2, CLASS I, II, OR IV AND SHALL BE PLACED OVER THE CLEARED AREA PRIOR TO THE PLACING OF ROCK.
- 2. COARSE AGGREGATE SHALL MEET ONE OF THE FOLLOWING IDOT GRADATIONS, CA-1, CA-2, CA-3, OR CA-4.
- 3. RIPRAP SHALL MEET IDOT GRADATION RR-3 OR RR-4 AND MEET QUALITY DESIGNATION A.
- 4. COARSE AGGREGATE AND RIPRAP SHALL BE PLACED ACCORDING TO CONSTRUCTION SPECIFICATION 25 ROCKFILL USING PLACEMENT METHOD 1 AND CLASS III COMPACTION.
- 5. FOR ADDED STABILITY, THE BASE OF THE DAM MAY BE KEYED 6 INCHES INTO THE SOIL.
- 6. MAXIMUM DRAINAGE AREA TO EACH DAM IS 10 ACRES.
- 7. ROCK CHECK DAM-COARSE AGGREGATE IL-605CA MAY BE USED FOR DRAINAGE AREAS UNDER 2 ACRES.

AGGREGATE DITCH CHECK

PERIMETER EROSION BARRIER 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.

FILE NAME = I:\Prj\Projects\2013\130222 B1as PHIT\road\Civil\Dgn\Shk\ERC_05.dgn



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116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

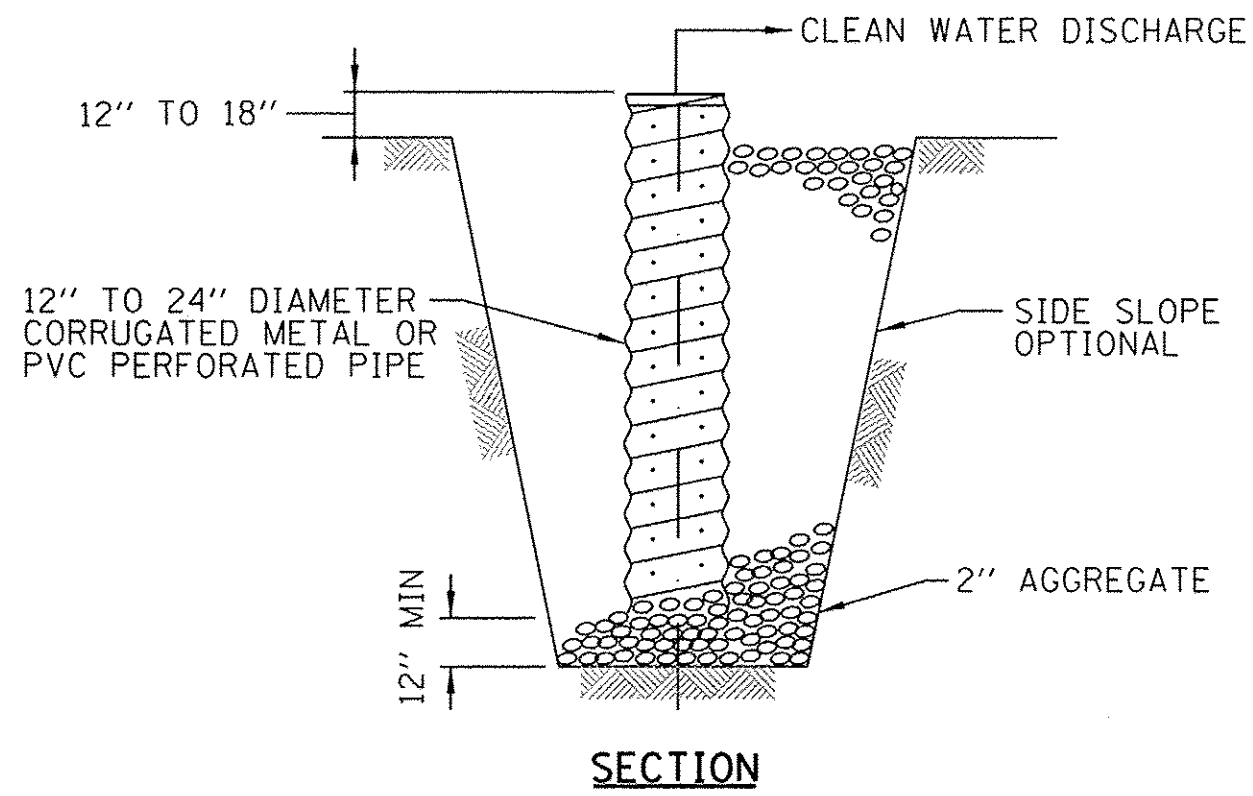
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PLOT SCALE = 1:10	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL DETAILS

SCALE: SHEET NO. 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 67
				CONTRACT NO. 61D20
ILLINOIS FED. AID PROJECT				



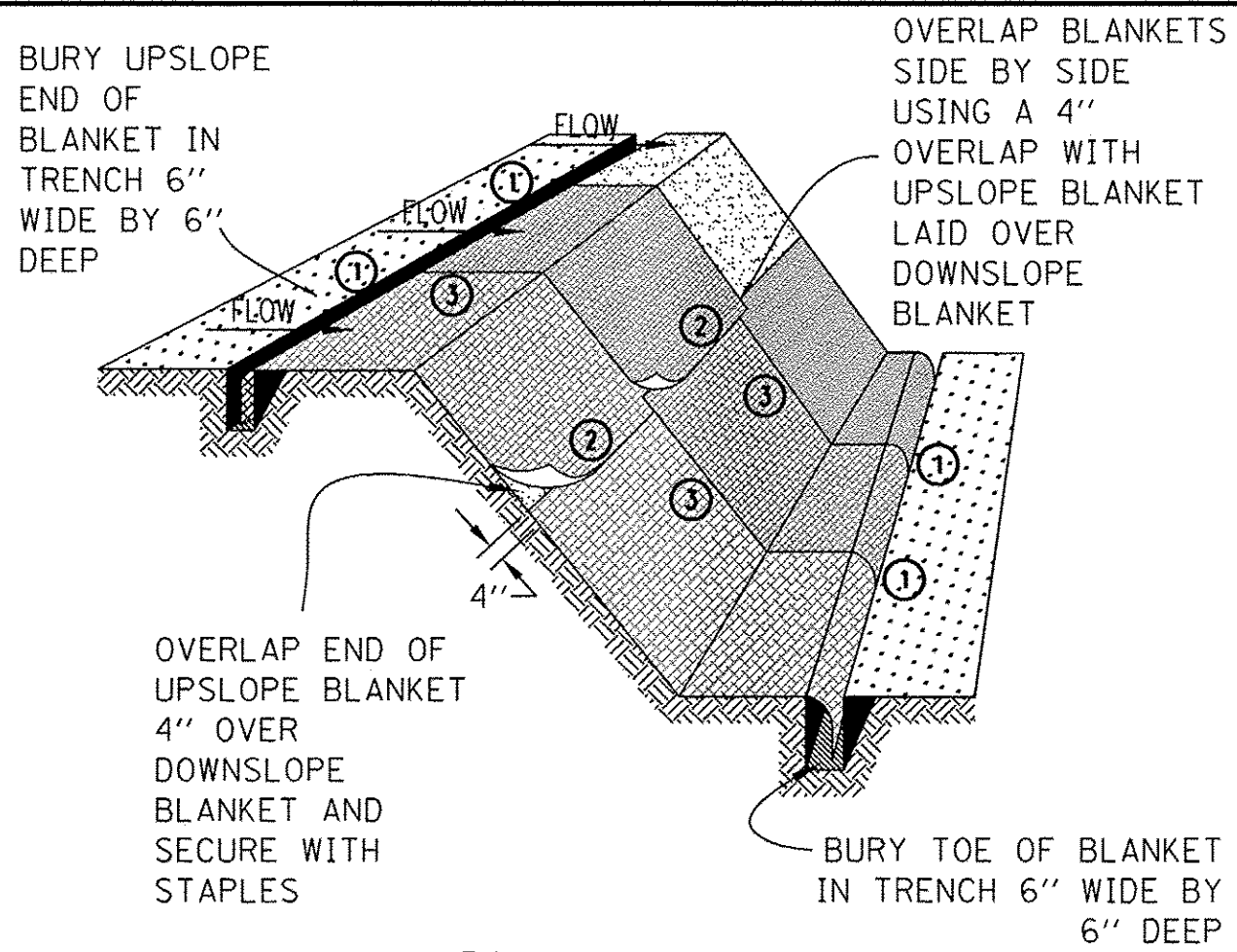
SUMP PIT NOTES:

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" AGGREGATE 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.

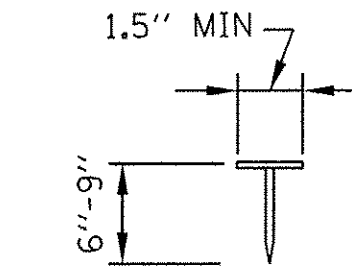
SUMP PIT PLAN

STD. IL-650
(SUMP PIT PLAN)

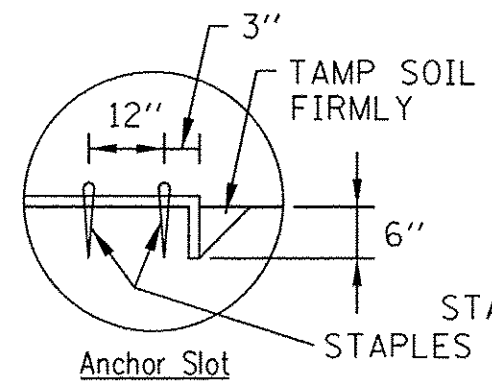
THE SUMP PIT WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE CONSIDERED PART OF THE DEWATERING OPERATIONS.



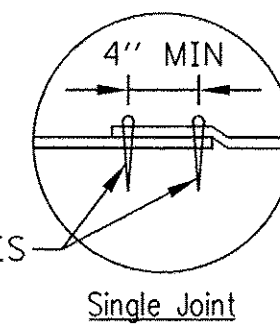
STAPLE DETAIL



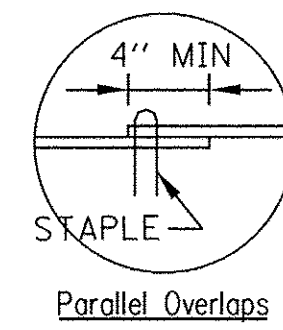
PUSH PIN DETAIL



DETAIL 1



DETAIL 2



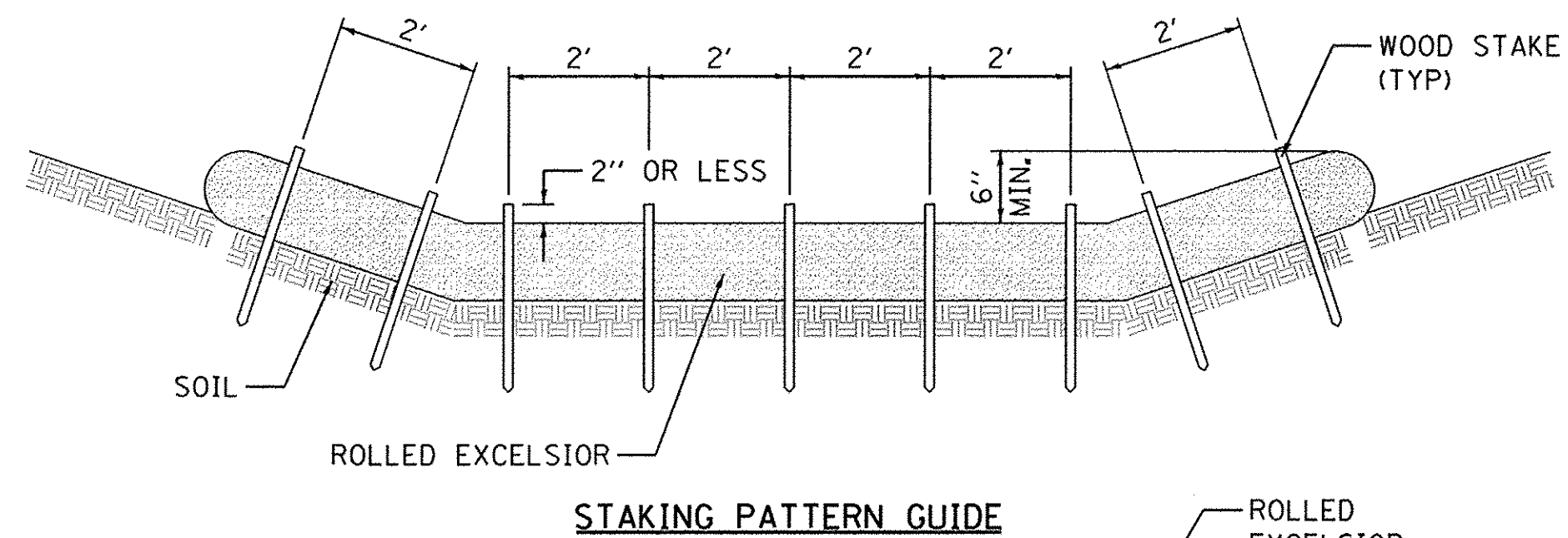
DETAIL 3

BLANKET NOTES:

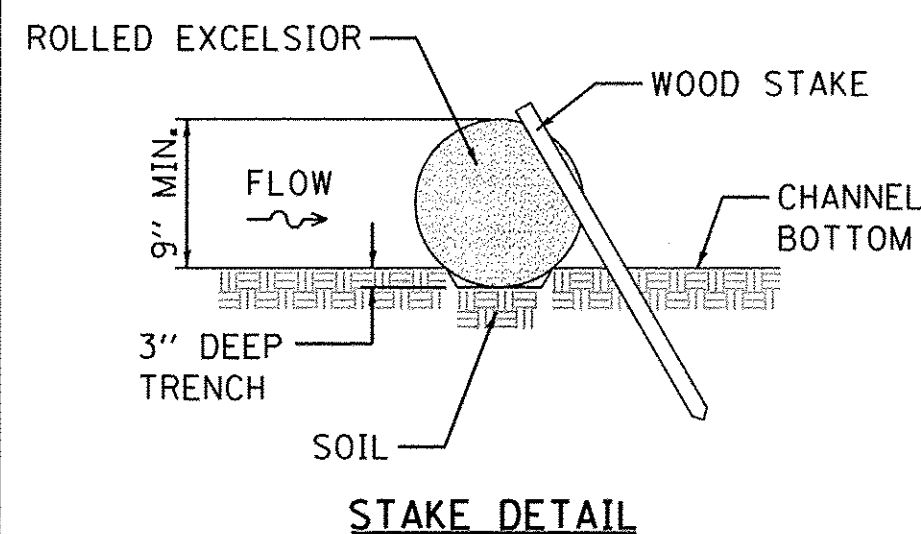
1. STAPLES SHALL BE PLACED IN A DIAMOND PATTERN AT 2 PER S.Y. FOR STITCHED BLANKETS. NON-STICHED SHALL USE 4 STAPLES PER S.Y. OF MATERIAL. THIS EQUATES TO 200 STAPLES WITH STITCHED BLANKET AND 400 STAPLES WITH NON-STICHED BLANKET PER 100 S.Y. OF MATERIAL
2. STAPLE OR PUSH PIN LENGTHS SHALL BE SELECTED 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**

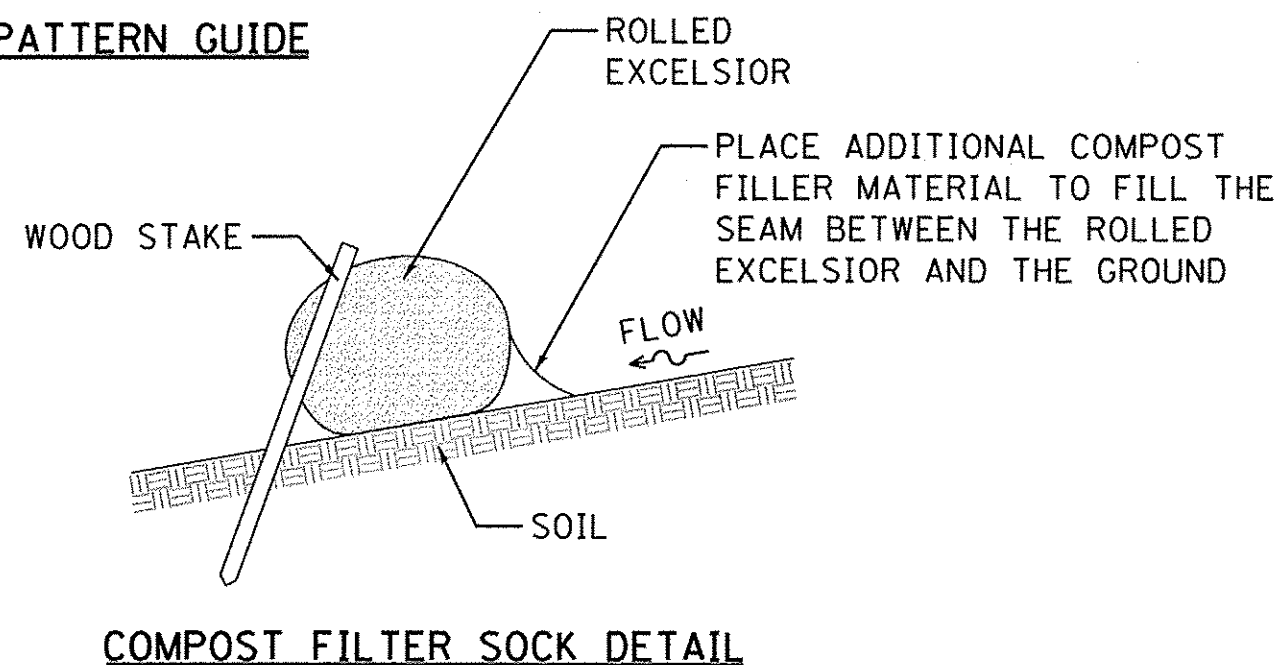
STD. IL-530A, IL-530B, IUM-531
(EROSION CONTROL BLANKET)



STAKING PATTERN GUIDE



STAKE DETAIL



COMPOST FILTER SOCK DETAIL

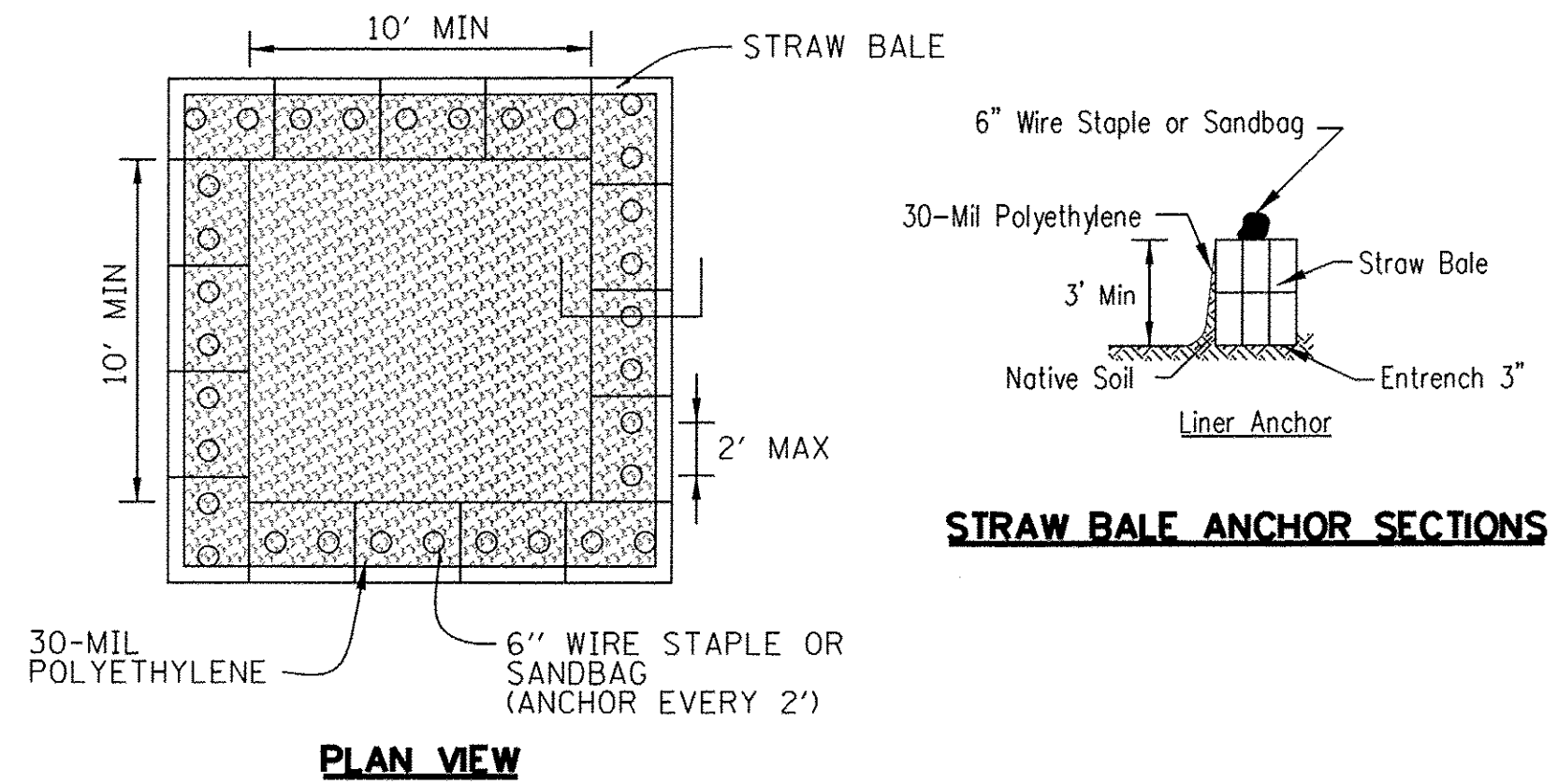
TEMPORARY DITCH CHECK

ROLLED EXCELSIOR

STD. IUM-514RC
(ROLLED EROSION CONTROL PRODUCTS)

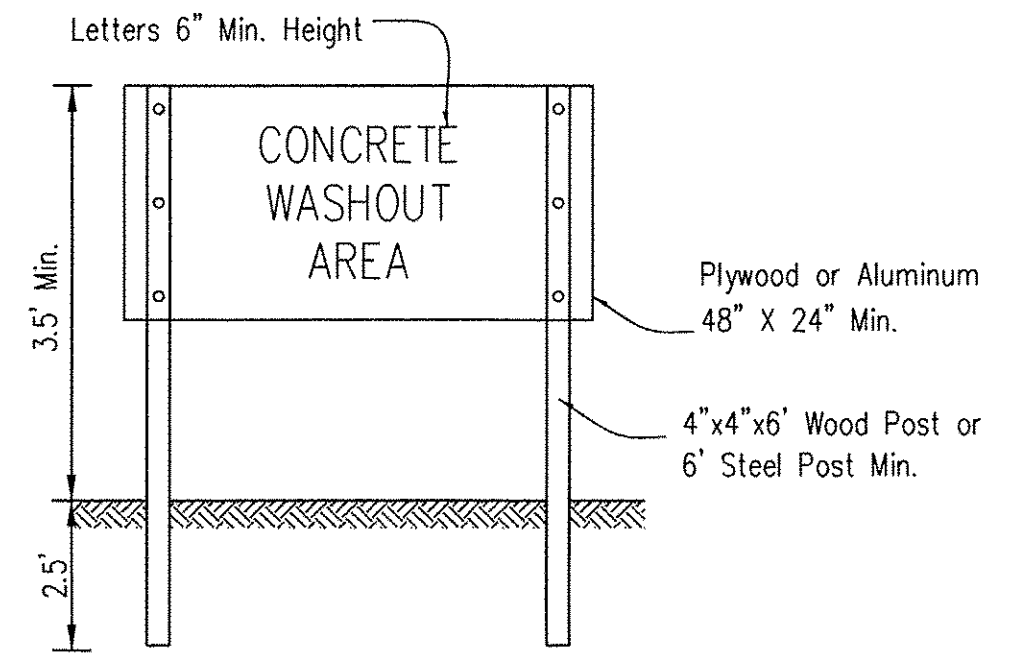
DITCH CHECK NOTES:

1. ENDS OF ROLLED EXCELSIOR SHALL BE TURNED AT LEAST 6" UPSLOPE.
2. RECOMMENDED STAKES ARE 1/8" WIDE x 1/8" THICK x 30" LONG.
3. STAKES SHALL NOT EXTEND ABOVE THE ROLLED EXCELSIOR MORE THAN 2".
4. SPACING: THE TOE OF THE UPSTREAM DITCH CHECK SHALL CREATE A HORIZONTAL LINE WITH THE TOP OF THE DOWNSTREAM DITCH CHECK.
5. WHEN COMPOST FILTER SOCK DITCH CHECK IS USED, PLACE A COMPOST BERM UPSTREAM OF THE FILTER SOCK (SEE IUM 805). A TRENCH IS NOT REQUIRED.
6. OVERLAP MINIMUM IS THE DIAMETER OF THE ROLL.
7. STAKES SHALL BE PLACED EVERY 2' FOR ROLLED EXCELSIOR, OR AS SPECIFIED BY THE MANUFACTURER.



PLAN VIEW

STRAW BALE ANCHOR SECTIONS



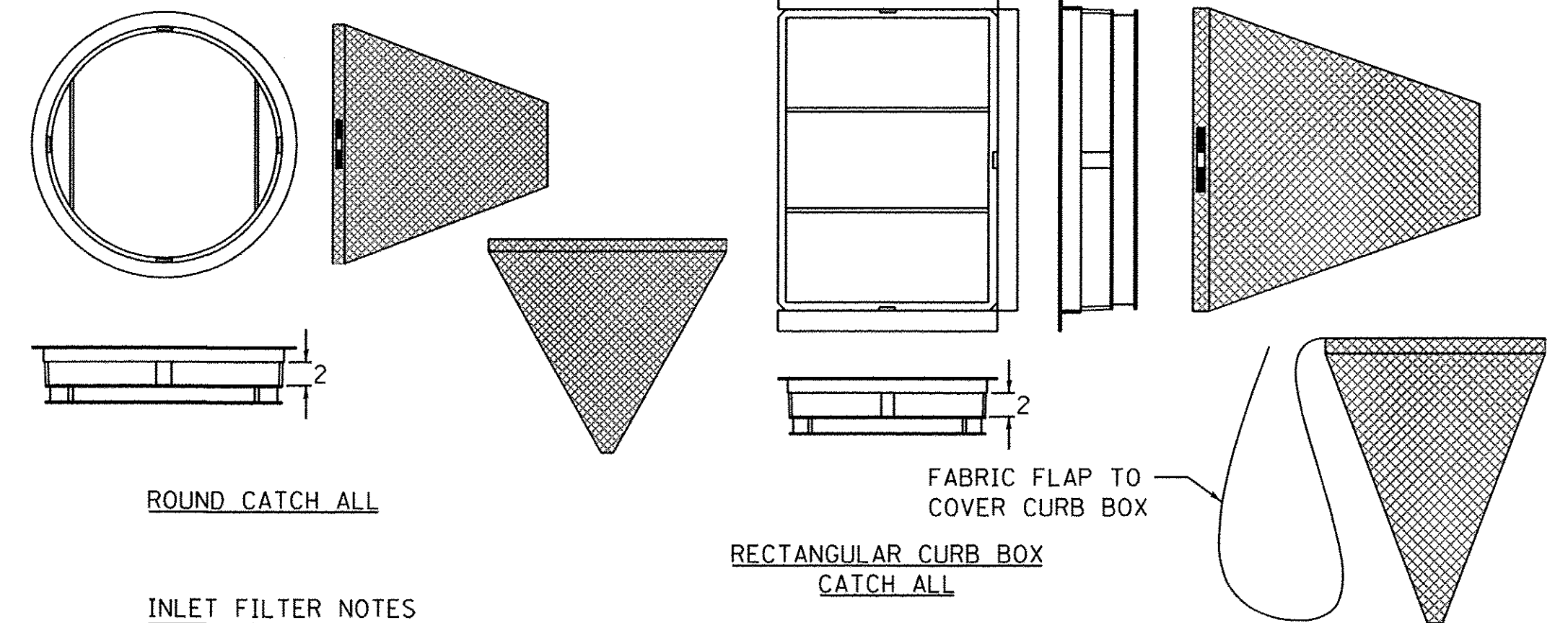
SIGN DETAIL

WASHOUT 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)



ROUND CATCH ALL

INLET FILTER NOTES

FRAME: TOP FLANGE FABRICATED FROM 1/4"x1/4"x1/8" ANGLE. BASE RIM FABRICATED FROM 1/2"x1/2"x1/8" CHANNEL. HANDLES 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 FILTER DETAIL

FILE NAME: M:\Projects\2013\1302202 B1as Ph11\cadd\Civil\Drawn\SRV\ERD_06.dgn



WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

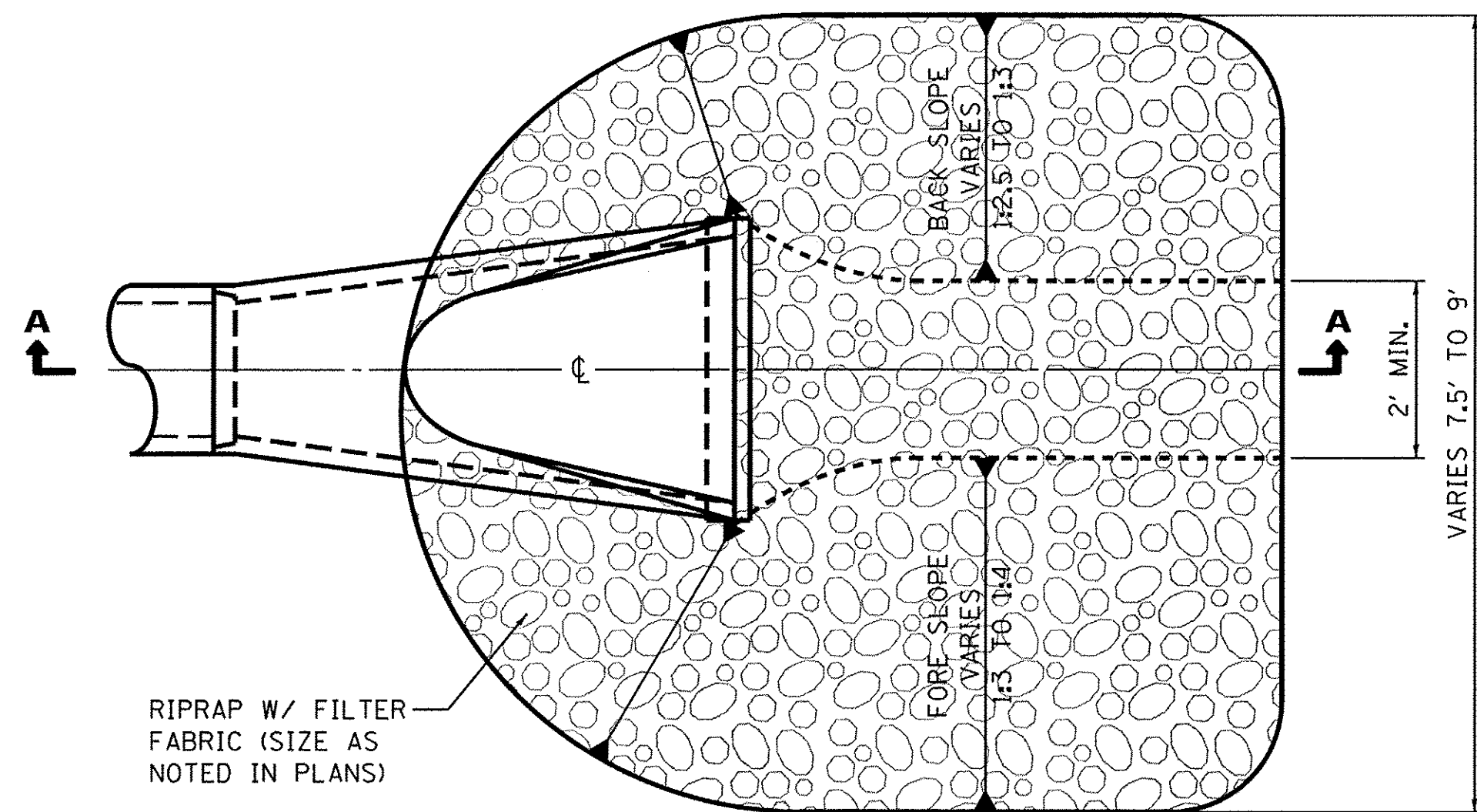
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	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

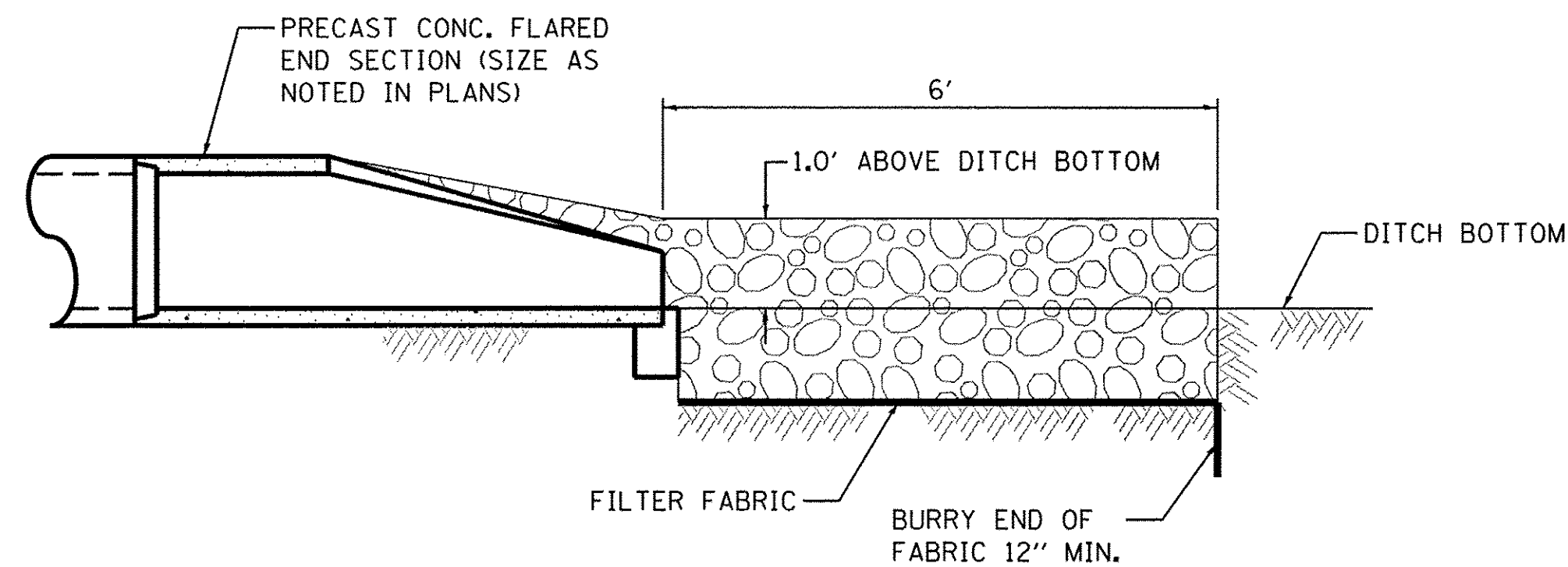
EROSION CONTROL DETAILS

SCALE: SHEET NO. 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 68
				CONTRACT NO. 61D20
ILLINOIS FED. AID PROJECT				



PLAN VIEW



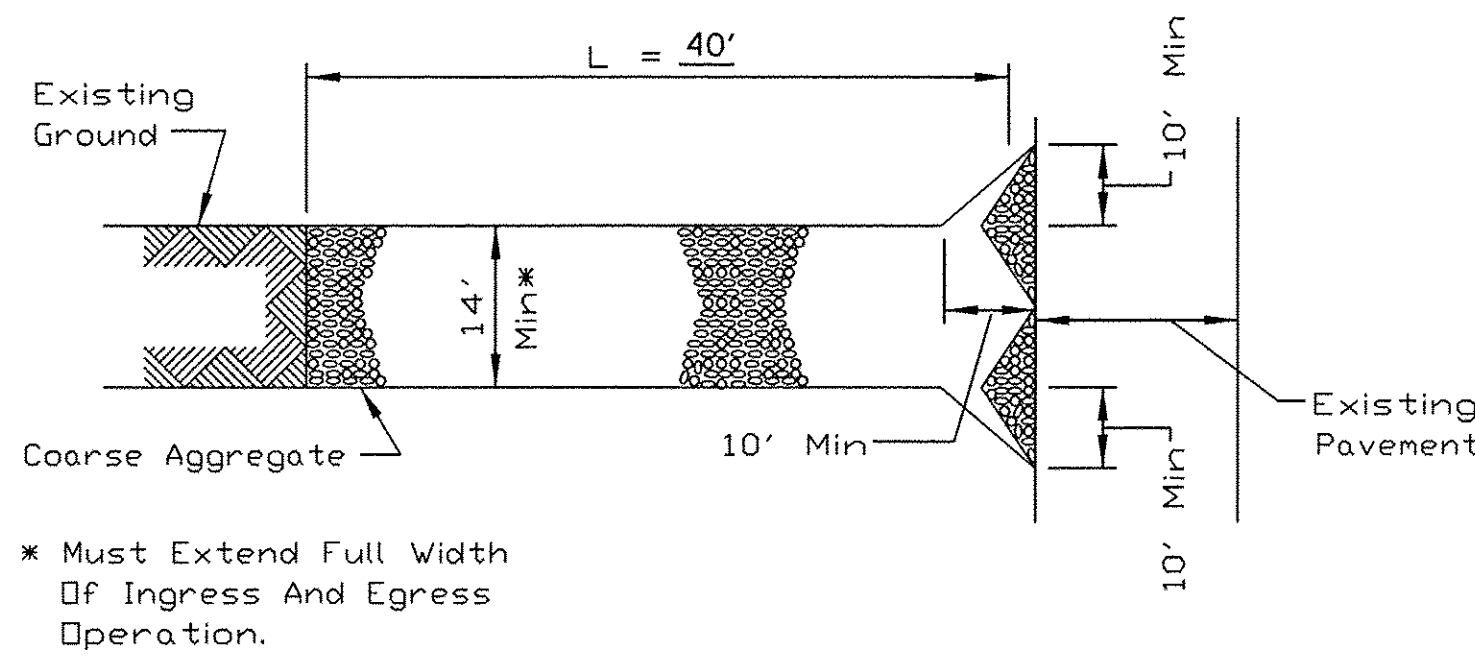
SECTION A-A

PIPE OUTLET NOTES:

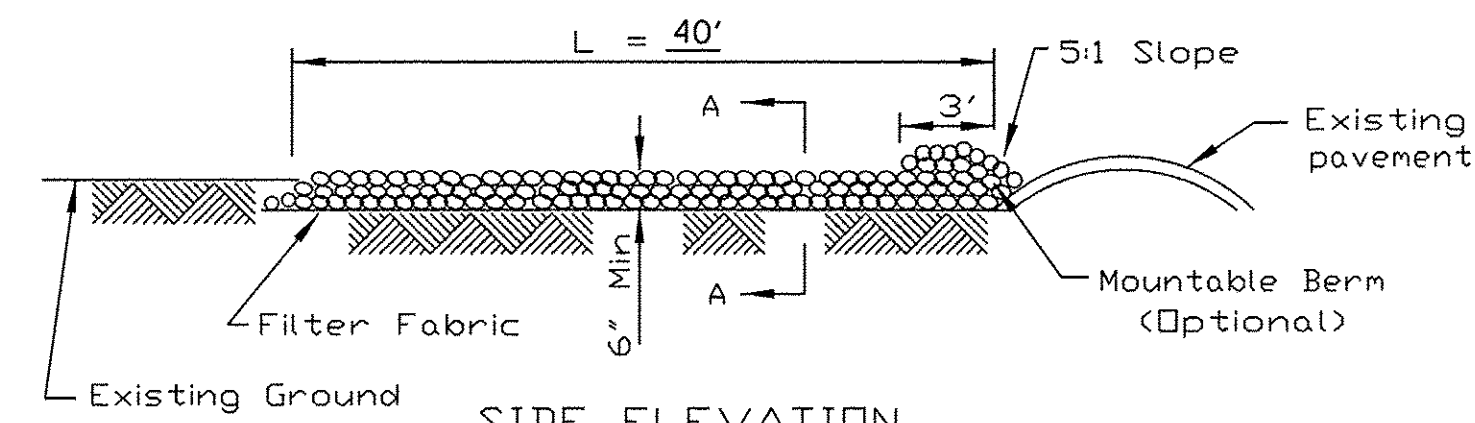
1. THE FILTER FABRIC SHALL MEET THE REQUIREMENTS OF ARTICLE 1080.03 OF THE STANDARD SPECIFICATIONS AND SHALL BE PLACED OVER THE CLEARED SUBGRADE AREA PRIOR TO PLACING OF THE RIPRAP.
2. THE ROCK RIPRAP SHALL MEET THE REQUIREMENTS OF SECTION 1005 OF THE STANDARD SPECIFICATIONS FOR GRADATION RR3.
3. THE RIPRAP SHALL BE PLACED ACCORDING TO THE CONSTRUCTION SPECIFICATION OF SECTION 281 THE STANDARD SPECIFICATIONS.

PIPE OUTLET TO CHANNEL DETAIL

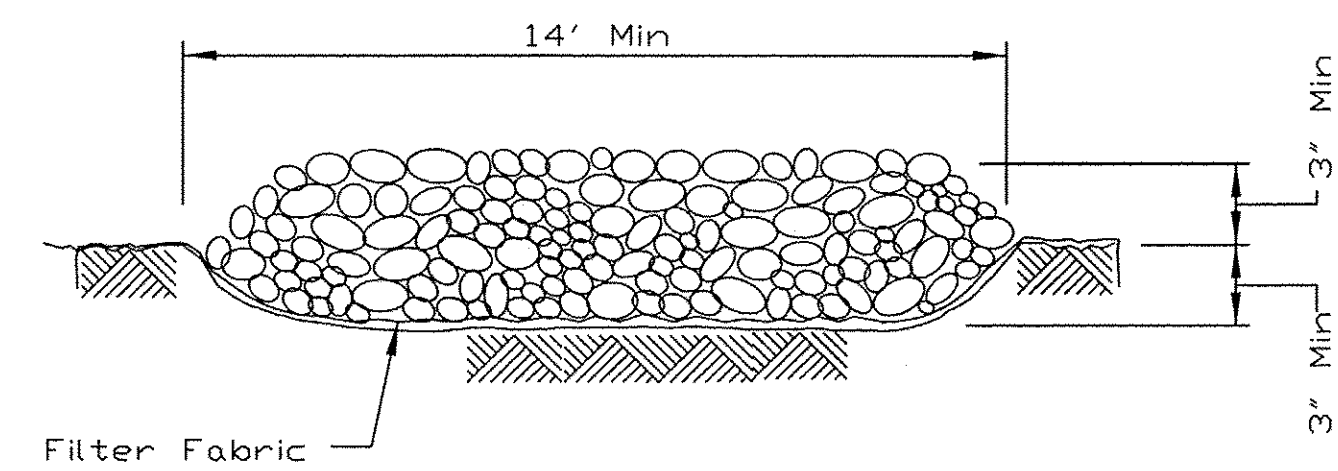
STD. IL 611
(PIPE OUTLET TO CHANNEL)



PLAN VIEW



SIDE ELEVATION



SECTION A-A

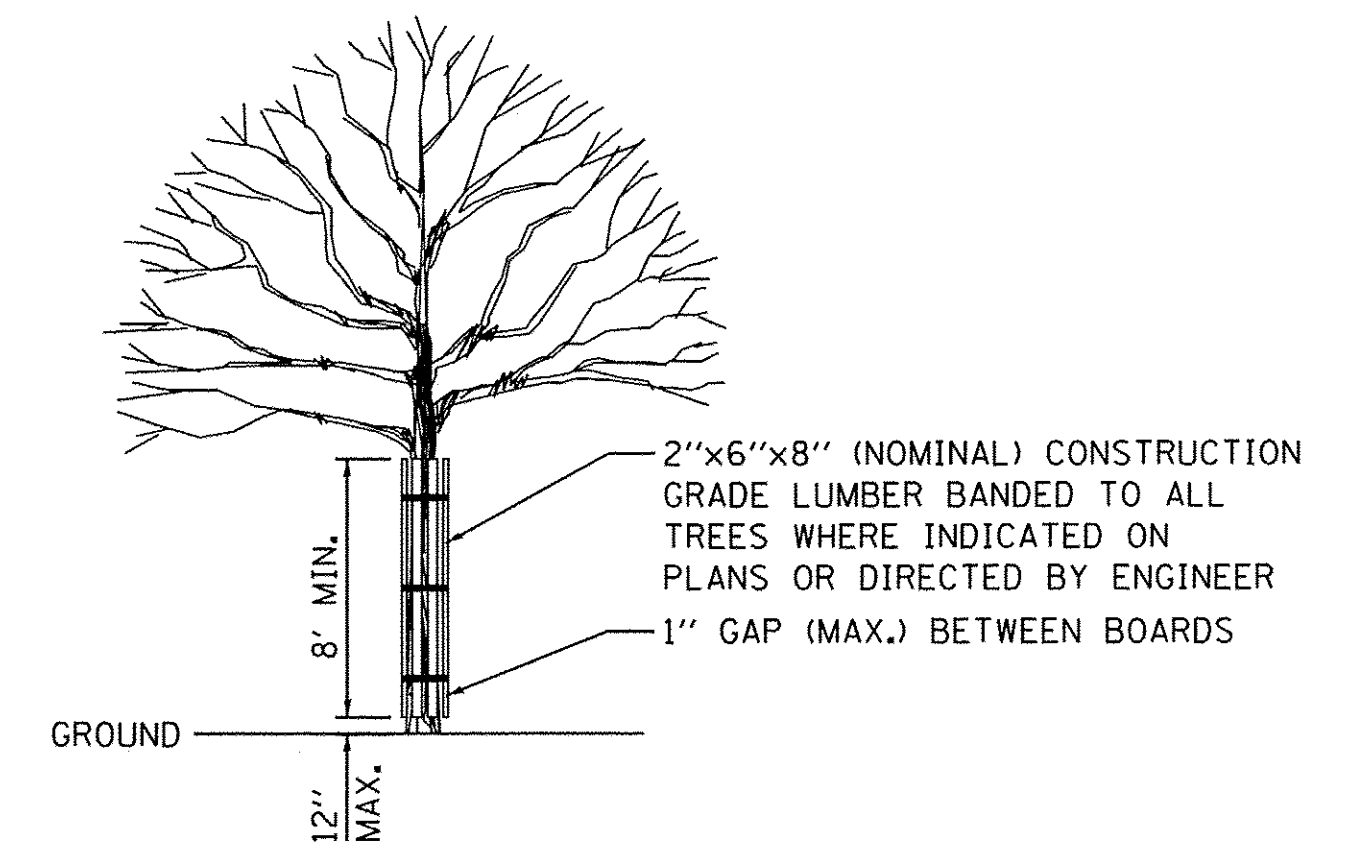
NOTES:

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

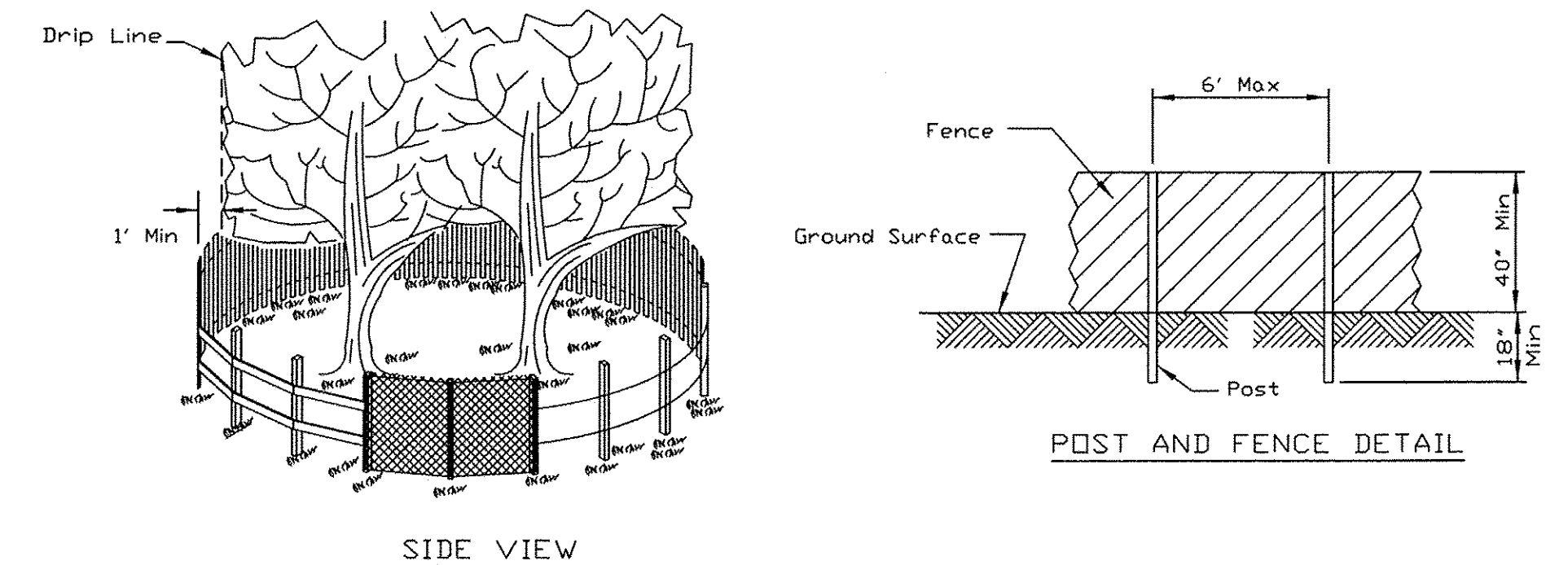
ENTRANCE PLAN

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



TREE TRUNK PROTECTION

TREE TRUNK PROTECTION HAS BEEN PROVIDED FOR IN THE PLANS FOR TREES DEEMED NEEDING PROTECTION. THE LOCATIONS ARE SHOWN ON THE EROSION AND REMOVAL PLANS. AN ADDITIONAL NOMINAL QUANTITY HAS BEEN INCLUDED IN THE PLANS TO BE USED AT THE ENGINEER'S DISCRETION.



SIDE VIEW

POST AND FENCE DETAIL

NOTES:

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

TREE PROTECTION - TEMPORARY FENCE

STD. IL-690
(TREE PROTECTION - FENCING)

A NOMINAL QUANTITY OF 200 LINEAL FEET OF TEMPORARY FENCE HAS BEEN ADDED TO THE PLANS WHERE ADDITIONAL PROTECTION IS REQUIRED. THE NEED FOR TEMPORARY FENCING WILL BE AT THE ENGINEER'S DISCRETION.

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WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED - NMP/LJL	REVISED - 10/17/16
PLOT SCALE = 1:10	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 69
				CONTRACT NO. 61D20
ILLINOIS FED. AID PROJECT				

PIPE UNDERDRAIN NOTES:

1. ALL PLUGS, CAPS OR FITTINGS REQUIRED IN THE CONSTRUCTION OF PIPE UNDERDRAINS WILL NOT BE MEASURED SEPERATELY FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAIN.
2. AGGREGATE FOR UNDERDRAIN TRENCH BACKFILL WILL NOT BE MEASURED SEPERATELY FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST FOR THE PIPE UNDERDRAIN.
3. SEE TYPICAL SECTION SHEETS FOR UNDERDRAIN DETAILS.

STORM INLET NO. 5
TY A, 2' DIA., TY 24 F&G
+60.0, 23.0' LT
RIM 702.01 @ EOP)
INV 697.99

STORM INLET NO. 3
TY B, 3' DIA., TY 24 F&G
+85.0, 23.0' LT
RIM 699.40 @ EOP)
INV 695.41 SW
INV 695.31 SE

STORM INLET NO. 4
TY A, 2' DIA., TY 24 F&G
+75.0, 23.0' LT
RIM 699.60 @ EOP)
INV 695.55

PIPE UNDERDRAINS, TY 1, 4"
STA 12+86.0 TO 14+00.0
113 LF

PIPE UNDERDRAINS, TY 2, 4"
STA 10+41.6 TO
STA 12+85.0 (244 LF)
(CONNECT TO INLET NO. 3)

STORM SEWER
CL A, TY 1, 12"
52 LF @ 1.0%
(15.5 CU YD CLSM)

STORM SEWER
CL A, TY 1, 12"
7 LF @ 2.0%
(1.3 CU YD T.B.)

STORM SEWER
CL A, TY 1, 12"
57 LF @ 1.0%
(16.7 CU YD CLSM)

STORM SEWER
CL A, TY 1, 36"
150 LF @ 4.4%
(64.8 CU YD T.B.)

•ADJ EX STORM MH
W/ NEW TY 24 F&G
EX RIM 702.00
PR RIM 702.55

STORM MANHOLE, NO. 3
TY A, 5' DIA, TY 1 F&L CL
+60.0, 31.0' RT
RIM 703.57
EX INV 696.26± SW&NE
PR INV 697.47 NW

••STORM MANHOLE NO. 2
TY A, 7' DIA, TY 1 F&L CL
+11.3, 30.0' RT
RIM 700.73
EX INV 694.26± SW
PR INV 694.74 NW
PR INV 694.16 NE

••MANHOLE NO. 2
CONTRACTOR TO FIELD ADJUST
LOCATION IN ORDER TO PLACE
PROPOSED STRUCTURE AT END
OF PIPE ONCE END SECTION
IS REMOVED

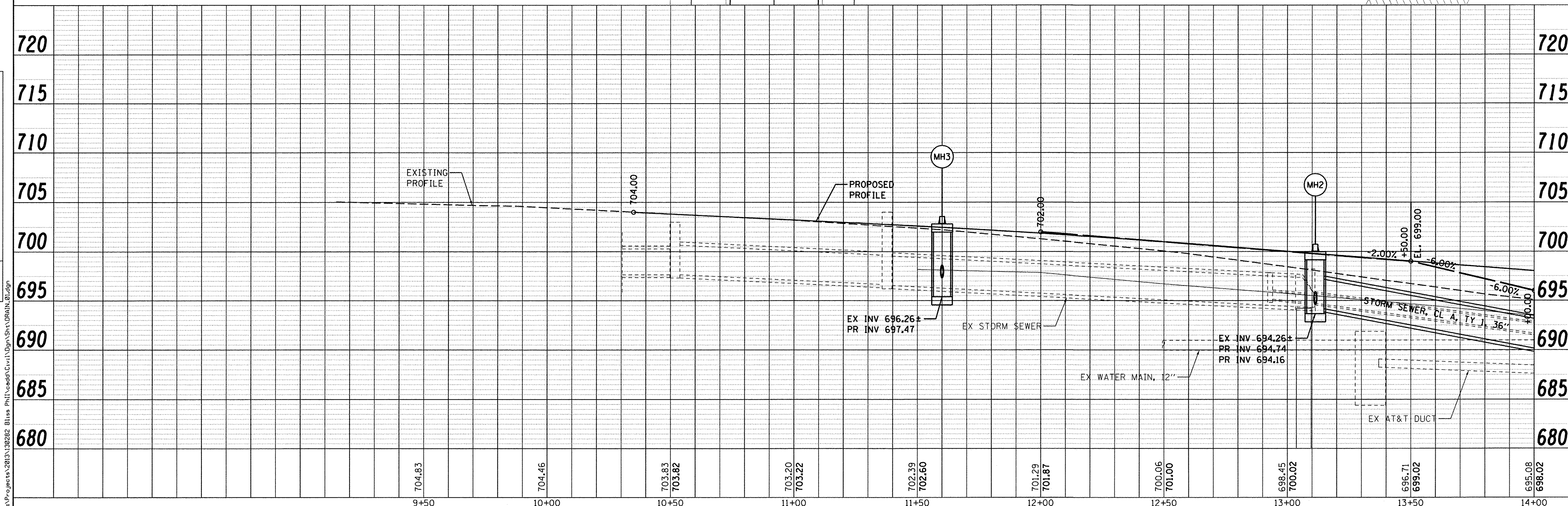
• ADJUSTMENT NOTE:
CONTRACTOR TO ADJUST
STRUCTURE TOP AS NECESSARY
SO OPENING ALIGNS WITH THE
GUTTER.

GRAPHIC SCALE



DATE	
BY	
PLAN	
SURVEYED	
ALIGNED	
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RT. OF WAY	
CHECKED	
NO.	
NOTE BOOK	
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FILE NAME	

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NOTATIONS	
CHKD	
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NOTE BOOK	
NO.	
FILE NAME	



9+50	10+00	10+50	11+00	11+50	12+00	12+50	13+00	13+50	14+00
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WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED - JWW	REVISED - 10/17/16
PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=20'	SHEET NO. 1 OF 4 SHEETS	STA. 10+35.00 TO STA. 14+00.00
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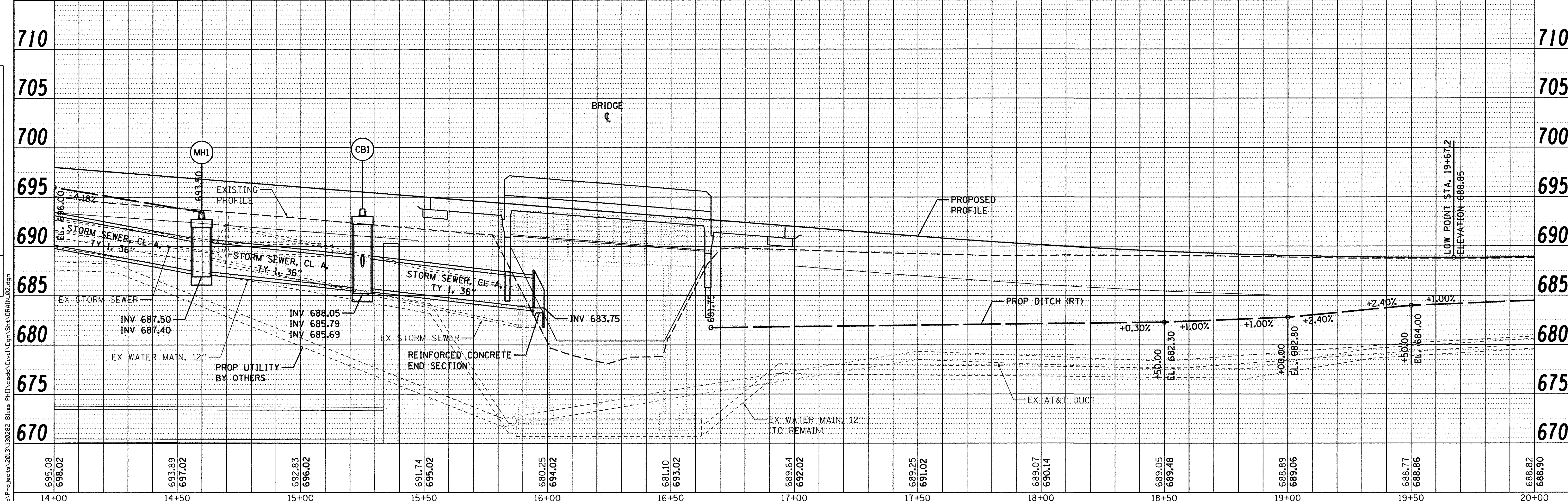
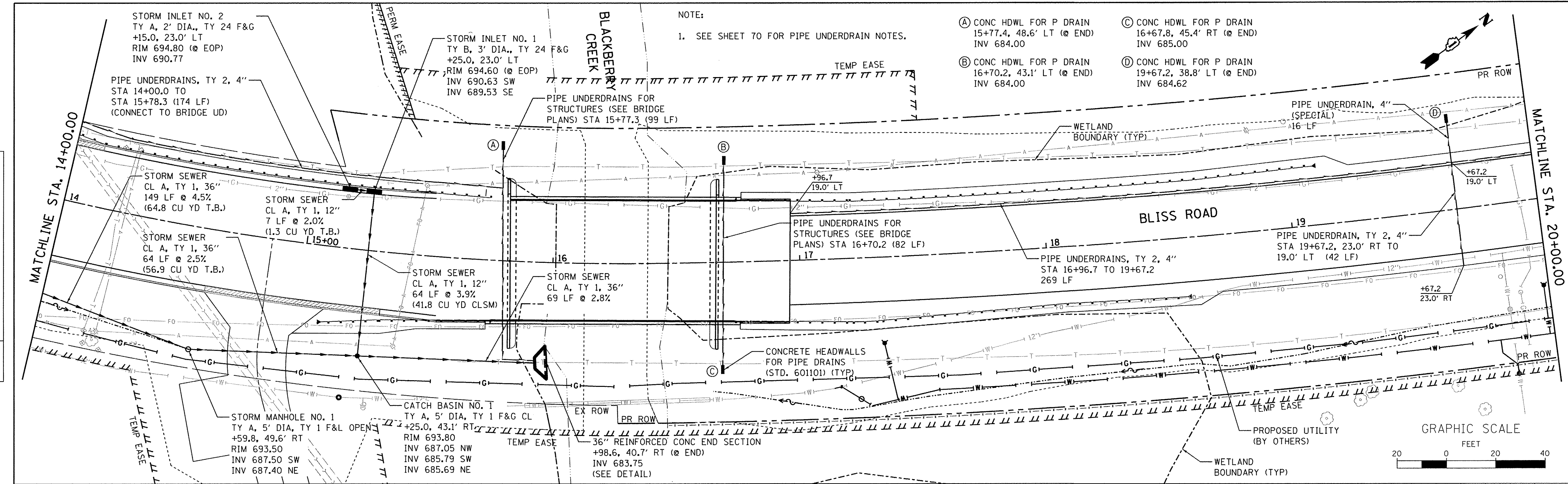
DRAINAGE & UTILITY
PLAN & PROFILE

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 70
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

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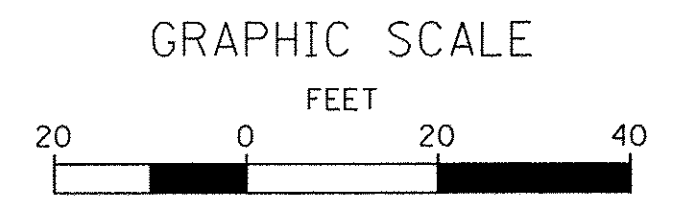
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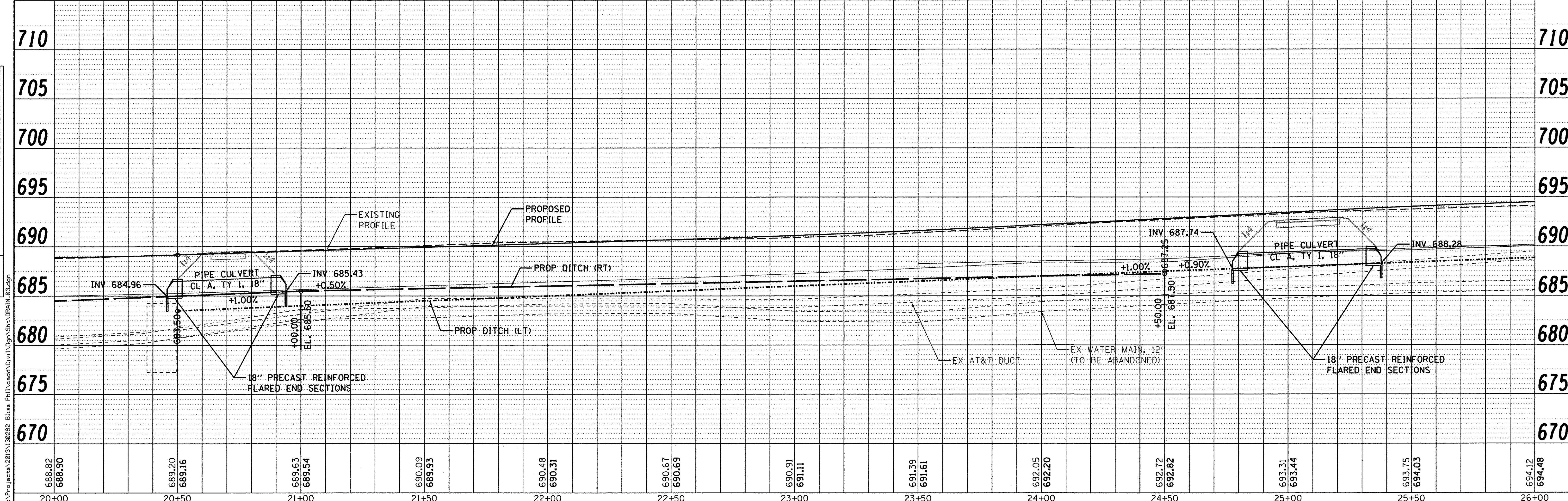
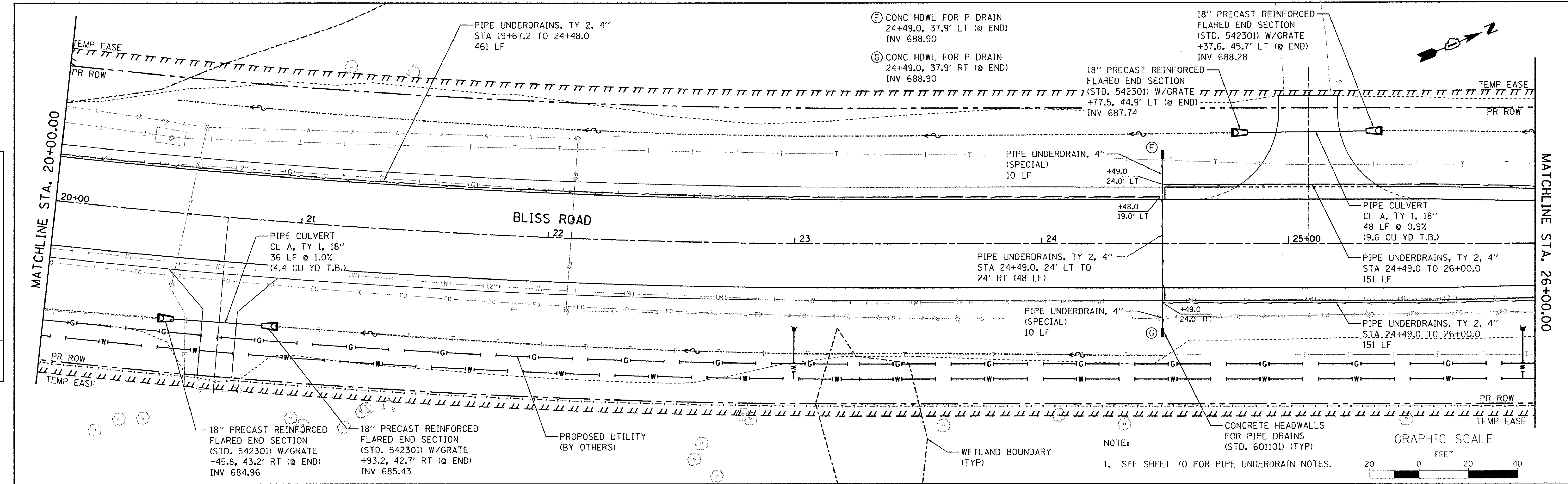
NOTE:
1. SEE SHEET 70 FOR PIPE UNDERDRAIN NOTES.

- Ⓐ CONC HDWL FOR P DRAIN
15+77.4, 48.6' LT @ END
INV 684.00
- Ⓑ CONC HDWL FOR P DRAIN
16+70.2, 43.1' LT @ END
INV 684.00
- Ⓒ CONC HDWL FOR P DRAIN
16+67.8, 45.4' RT @ END
INV 685.00
- Ⓓ CONC HDWL FOR P DRAIN
19+67.2, 38.8' LT @ END
INV 684.62



DATE	
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PLAN	
SURVEYED	
PLOTTED	
CHECKED	
NO. OF WAY CHECKED	
NO. OF FILE NAME	
NO.	

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
CHECKED	
NO. OF NOTATIONS	
NO.	



WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME	= nparris	DESIGNED	= JWW	REVISED	= 10/17/16
PLLOT SCALE	= 1:20	DRAWN	= NDP	REVISED	=
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		DATE	= 8/8/16	REVISED	=

STATE OF ILLINOIS
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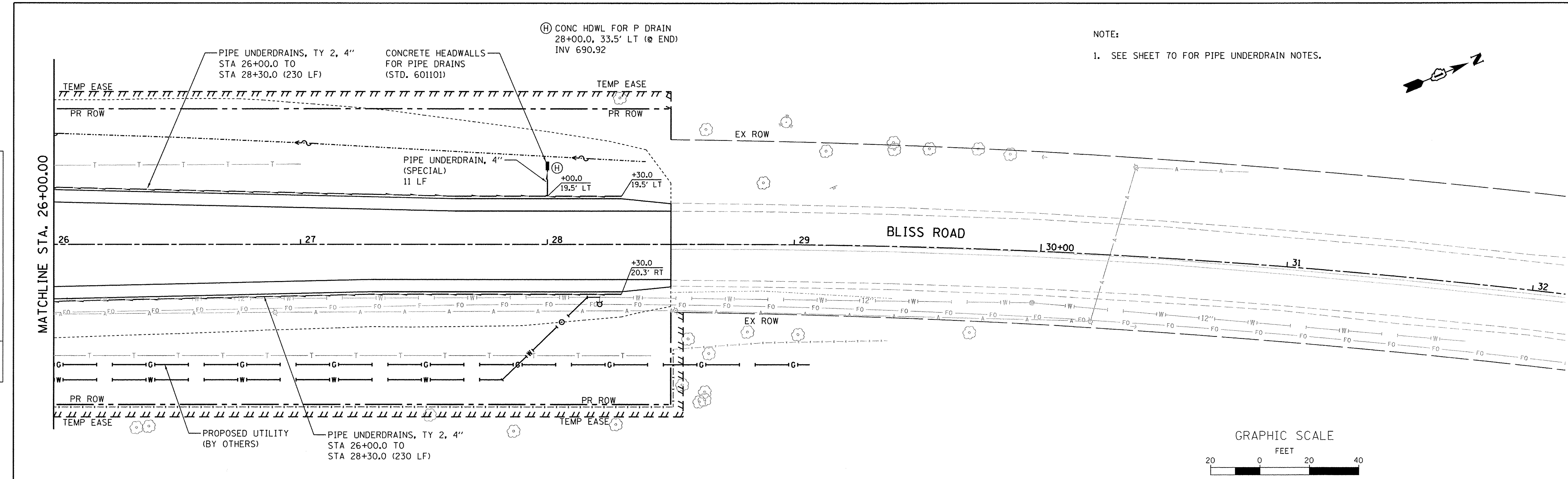
DRAINAGE & UTILITY
 PLAN & PROFILE
 SCALE: 1"=20'
 SHEET NO. 3 OF 4 SHEETS
 STA. 20+00.00 TO STA. 26+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	72
				CONTRACT NO. 61D20
ILLINOIS FED. AID PROJECT				

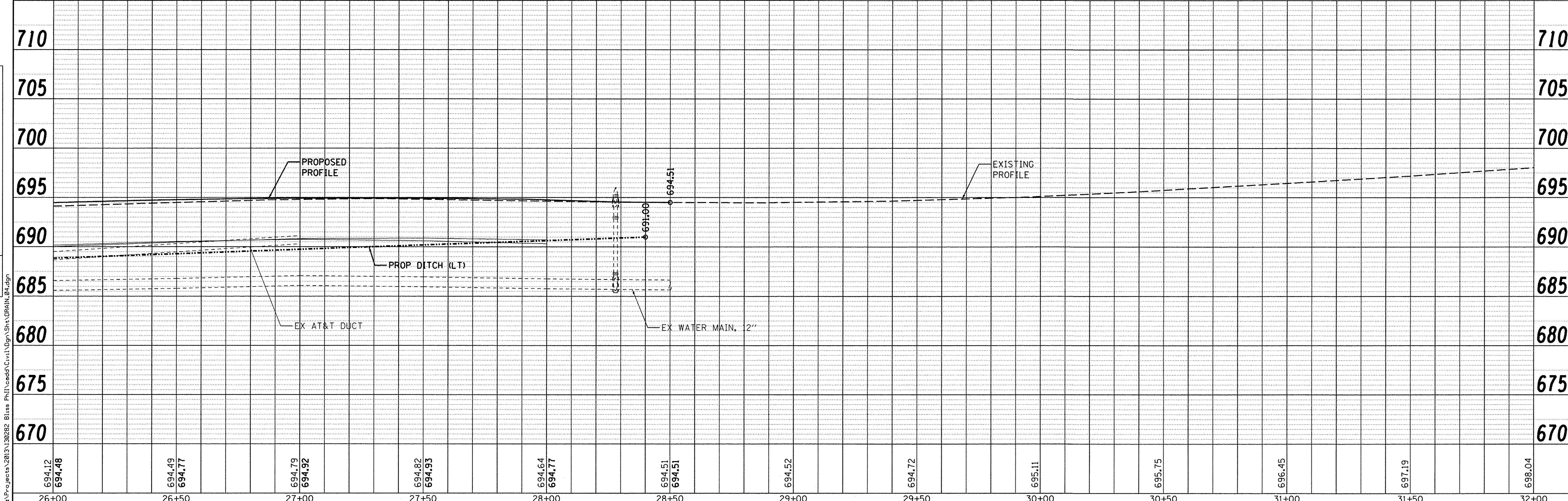
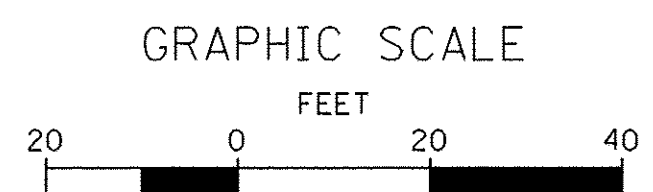
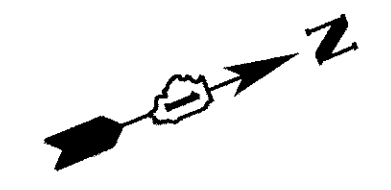
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	NO.	
	NO.	

PROFILE	SURVEYED	DATE
NO.	GRADES	BY
	CHECKED	
	BY	
	NOTED	
	NOTATIONS	
	CHKD	



NOTE:
1. SEE SHEET 70 FOR PIPE UNDERDRAIN NOTES.



694.12	694.48	694.49	694.77	694.79	694.92	694.82	694.93	694.64	694.77	694.51	694.51	694.52	694.72	695.11	695.75	696.45	697.19	698.04
26+00	26+50	27+00	27+50	28+00	28+50	29+00	29+50	30+00	30+50	31+00	31+50	32+00						

WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

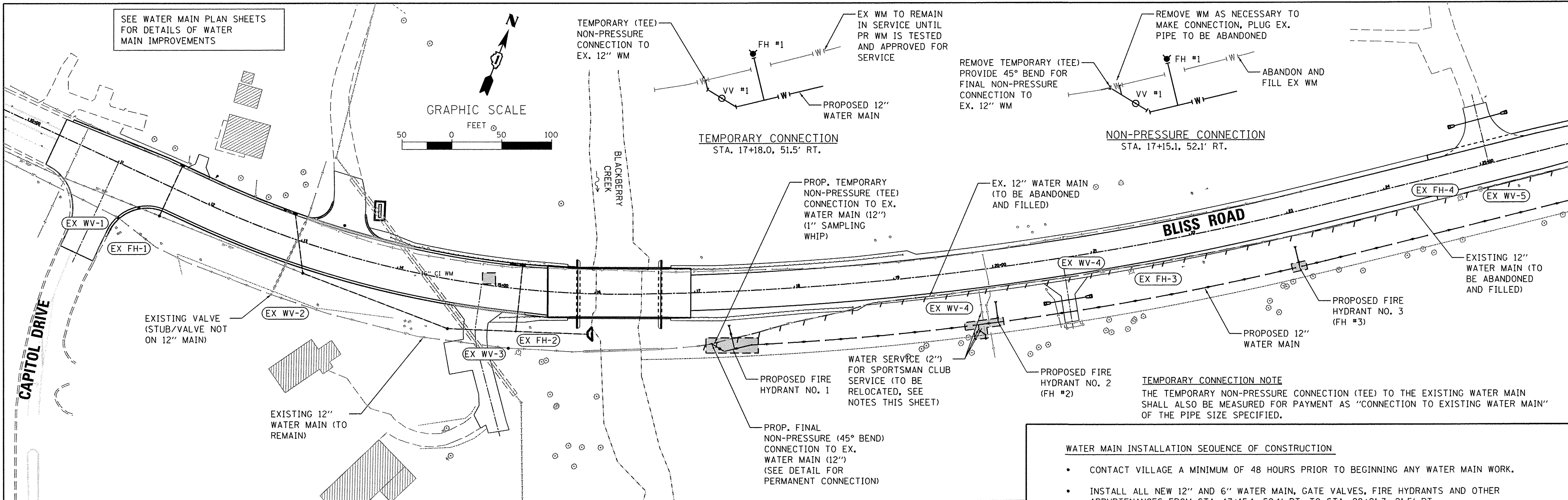
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PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

STATE OF ILLINOIS
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PLAN & PROFILE

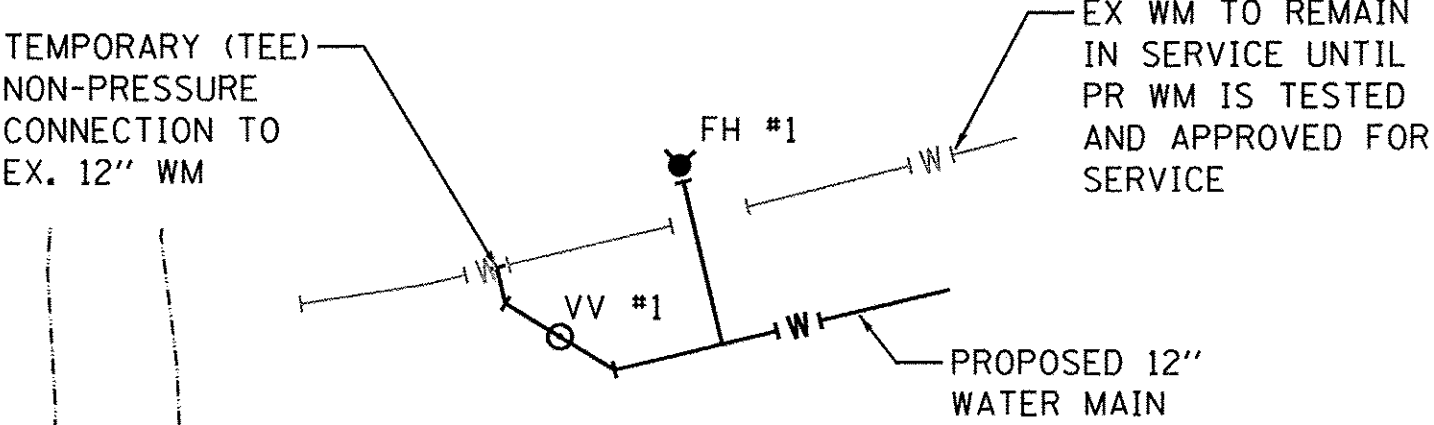
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F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 73
CONTRACT NO. 61D20			ILLINOIS FED. AID PROJECT	

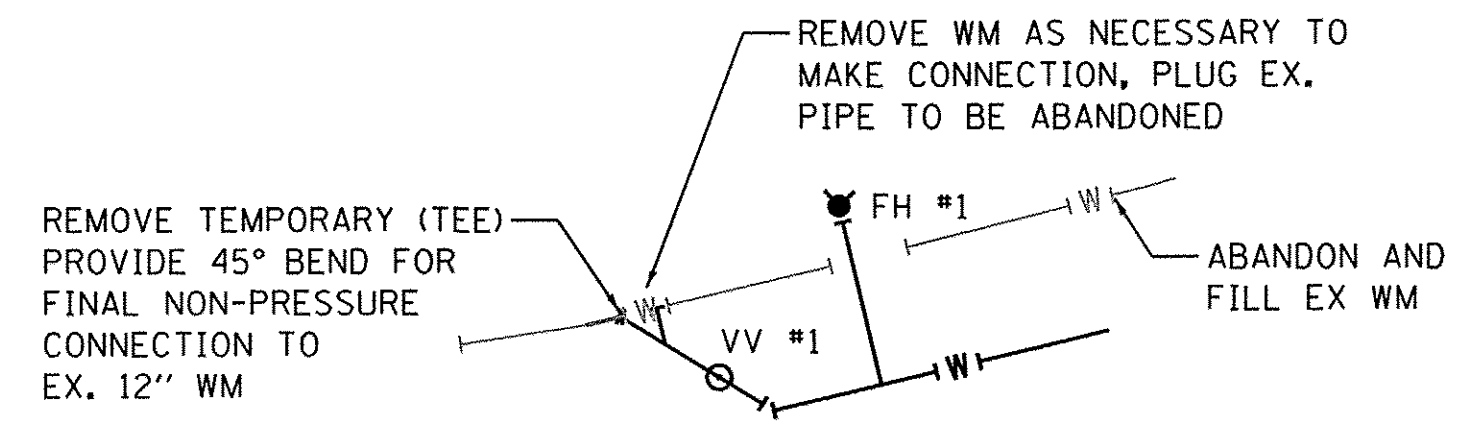


SEE WATER MAIN PLAN SHEETS FOR DETAILS OF WATER MAIN IMPROVEMENTS

GRAPHIC SCALE



TEMPORARY CONNECTION
STA. 17+18.0, 51.5' RT.



NON-PRESSURE CONNECTION
STA. 17+15.1, 52.1' RT.

TEMPORARY CONNECTION NOTE
THE TEMPORARY NON-PRESSURE CONNECTION (TEE) TO THE EXISTING WATER MAIN SHALL ALSO BE MEASURED FOR PAYMENT AS "CONNECTION TO EXISTING WATER MAIN" OF THE PIPE SIZE SPECIFIED.

WATER MAIN INSTALLATION SEQUENCE OF CONSTRUCTION

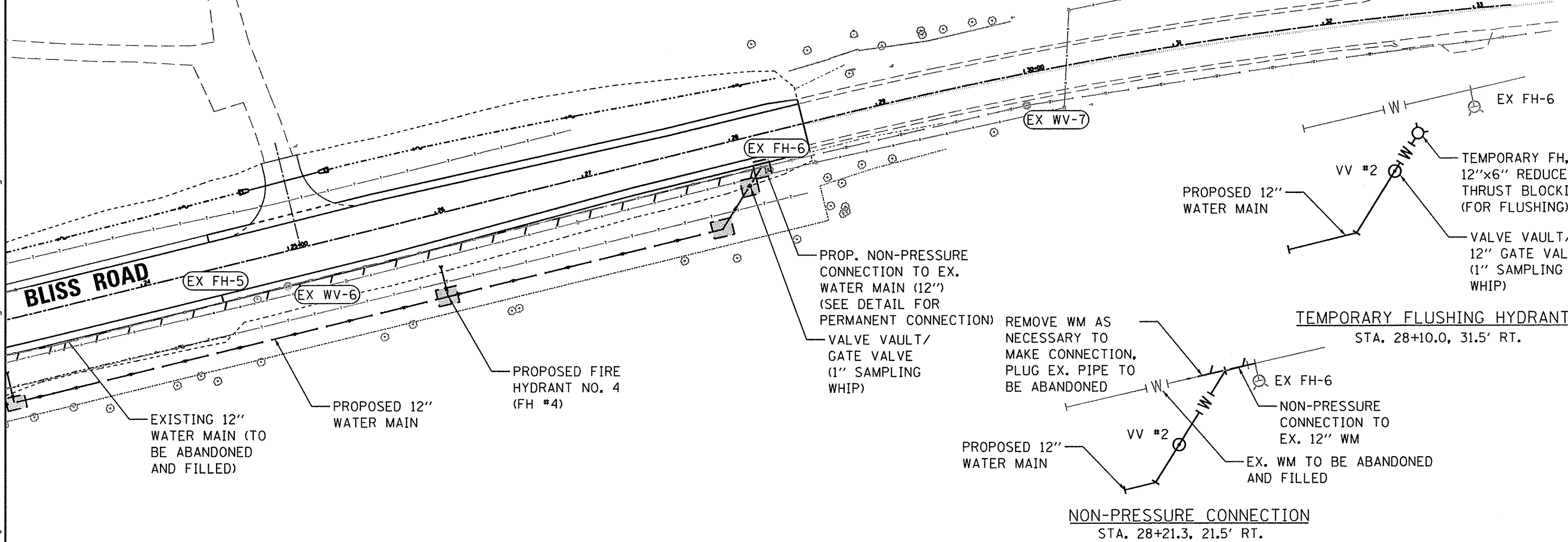
- CONTACT VILLAGE A MINIMUM OF 48 HOURS PRIOR TO BEGINNING ANY WATER MAIN WORK.
- INSTALL ALL NEW 12" AND 6" WATER MAIN, GATE VALVES, FIRE HYDRANTS AND OTHER APPURTENANCES FROM STA. 17+15.1, 52.1' RT. TO STA. 28+21.3, 21.5' RT.
- INSTALL TEMPORARY FIRE HYDRANT FOR FLUSHING AT APPROXIMATELY STA. 28+10, 31.5' RT.
- CUT TEMPORARY 12"x12" TEE (FOR FILLING WATER MAIN) AND SLEEVE AT STA. 17+18.0, 51.5' RT. CONNECTION SHALL BE COMPLETED WITHIN FOUR (4) HOURS MAXIMUM. PRIOR TO SCHEDULING THE CONNECTION, THE CONTRACTOR SHALL EXCAVATE AND EXPOSE THE WATER MAIN TO CONFIRM ALL NECESSARY MATERIALS FOR THE CONNECTION ARE ON SITE PRIOR TO SHUTTING DOWN THE EXISTING WATER MAIN.
- FLUSH, DISINFECT AND SAMPLE THE WATER MAIN PER SECTION 4.7 (DISINFECTION PROCEDURES WHEN CUTTING INTO OR REPAIRING EXISTING MAINS) OF AWWA STANDARD C651.
- CLOSE THE NEW VALVES (VV#1 AND VV#2).
- MAINTAIN SERVICE TO EXISTING 12" WATER MAIN BETWEEN EXISTING VALVE (EX WV-3) AT STA. 15+19.6, 60.7' RT. TO EXISTING VALVE (EX WV-7) AT STA. 29+97.3, 21.0' RT.
- KEEP NEW VALVES AT STA. 17+22.8, 57.4' RT. (VV#1) AND STA. 28+05.9, 31.5' RT. (VV#2) CLOSED AFTER INSTALLATION.
- CONNECT "WHIPS" (CORPORATION STOPS) AT THE NEW VALVES AT STA. 17+22.8 (VV#1), AND 28+05.9 (VV#2) FOR CHLORINATION AND PRESSURE TESTING.
- PRESSURE TEST, DISINFECT, CHLORINATE AND FLUSH NEW WATER MAIN. FLUSH NEW MAIN NORTH USING TEMPORARY FIRE HYDRANT AT STA. 28+10.
- ONCE NEW WATER MAIN PASSES TESTING AND DISINFECTION, ISOLATE EXISTING 2" WATER SERVICE AND 12" WATER MAIN AT THE SOUTH END AT STA. 15+19.6, 60.7' RT. (EX WV-3) AND THE NORTH END AT STA. 29+97.3, 21.0' RT (EX WV-7).
- REMOVE TEMPORARY FIRE HYDRANT AND MAKE PROPOSED CONNECTION (NON-PRESSURE) TO THE EXISTING WATER MAIN AT STA. 28+21.3, 21.5' RT. DISCONNECT TEMPORARY TEE AND PROVIDE 45° AT STA. 17+15.1, 52.1' RT. AND CONNECT 2" WATER SERVICE AT STA. 19+83.4, 69.0' RT. AND 19+78.4, 55.0' RT., RESPECTIVELY.
- ALL CONNECTIONS SHALL BE DONE SIMULTANEOUSLY. THE WORK SHALL BE COMPLETED WITHIN 4 HOUR TIME PERIOD, REFLUSH SYSTEM.
- RETURN THE NEW SECTION OF WATER MAIN TO SERVICE BY OPENING EXISTING VALVES AT EXISTING VALVE (EX WV-3) AT STA. 15+19.6, 60.7' RT. TO EXISTING VALVE (EX WV-7) AT STA. 23+97.3, 21.0' RT. COMPLETE THE 2" WATER SERVICE AT STA. 19+81.7, 58.0' RT.
- REMOVE EXISTING FIRE HYDRANTS, VALVES AND VAULTS. PROVIDE PLUGS, ABANDON AND FILL EXISTING WATER MAIN BETWEEN STA. 17+15.1 TO STA. 28+21.3.

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 VILLAGE OF SUGAR GROVE 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 VILLAGE OF SUGAR GROVE.

LEGEND

- EX FH-1 EXISTING FIRE HYDRANT NUMBERED SEQUENTIALLY
- EX WV-1 EXISTING WATER VALVE NUMBERED SEQUENTIALLY
- EXISTING WATER MAIN TO BE ABANDONED AND FILLED
- PROPOSED WATER MAIN
- PROP. PIPE RESTRAINT AT CONNECTIONS (SEE WATER MAIN RESTRAINT TABLE)



NON-PRESSURE CONNECTION
STA. 28+21.3, 21.5' RT.

TEMPORARY FLUSHING HYDRANT
STA. 28+10.0, 31.5' RT.

FILE NAME = W:\Projects\2013\1302282 Bliss PH1\Coord\Civil\Drawn\Shr\WM SEQUENCE.dwg

WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:50	DRAWN - SBP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DBP	REVISED -
	DATE - 8/8/16	REVISED -

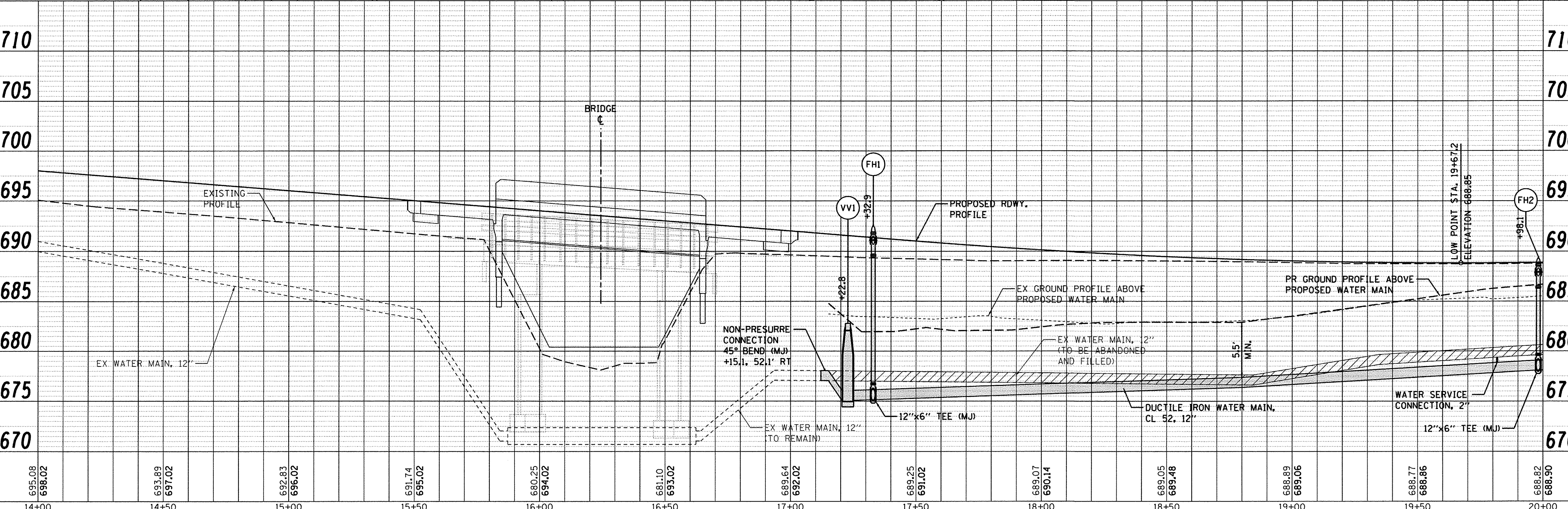
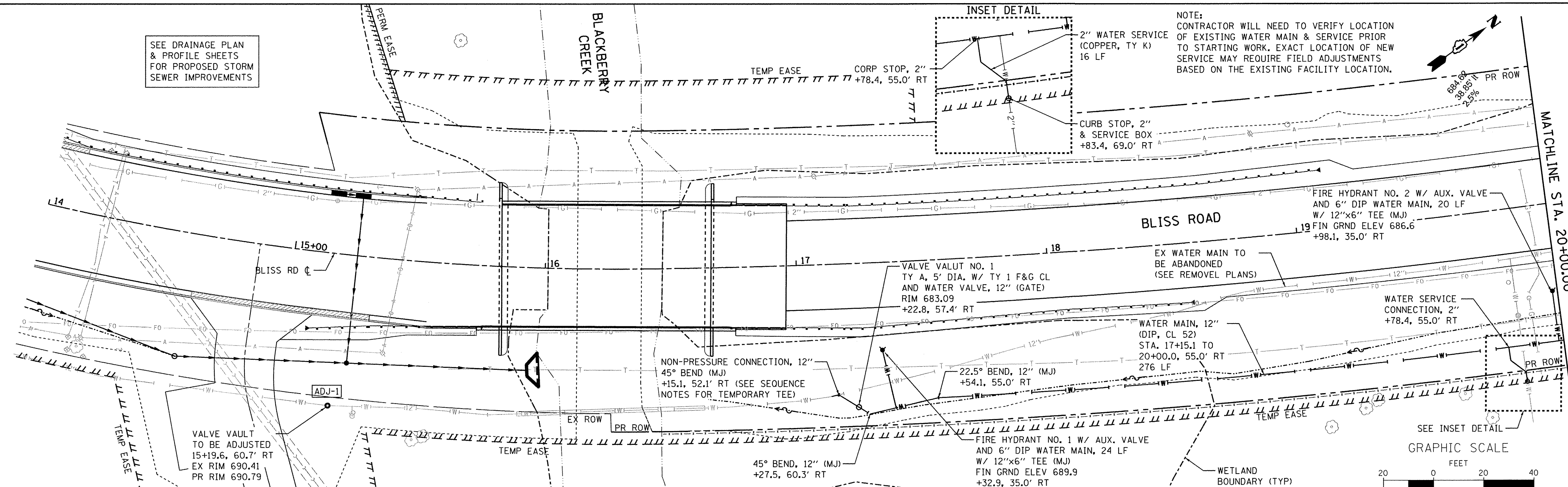
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN INSTALLATION SEQUENCE OF CONSTRUCTION	
SCALE: 1"=50'	SHEET NO. 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 74
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

SEE DRAINAGE PLAN & PROFILE SHEETS FOR PROPOSED STORM SEWER IMPROVEMENTS

NOTE: CONTRACTOR WILL NEED TO VERIFY LOCATION OF EXISTING WATER MAIN & SERVICE PRIOR TO STARTING WORK. EXACT LOCATION OF NEW SERVICE MAY REQUIRE FIELD ADJUSTMENTS BASED ON THE EXISTING FACILITY LOCATION.



PLAN	DATE
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BY	
DATE	
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BY	
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DATE	
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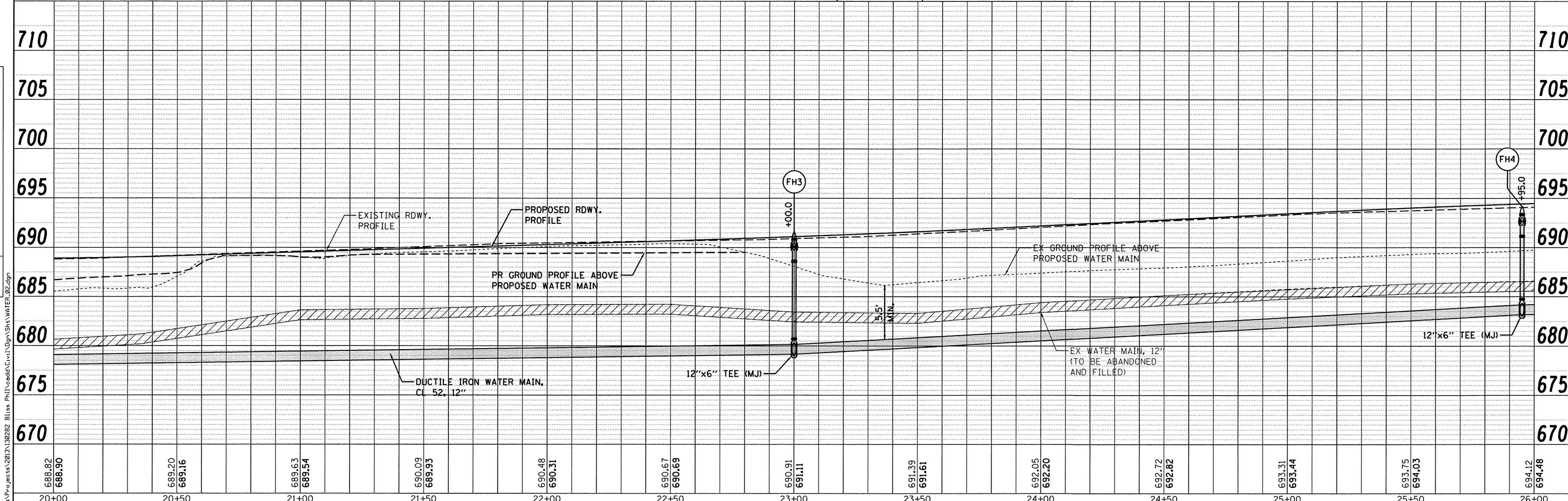
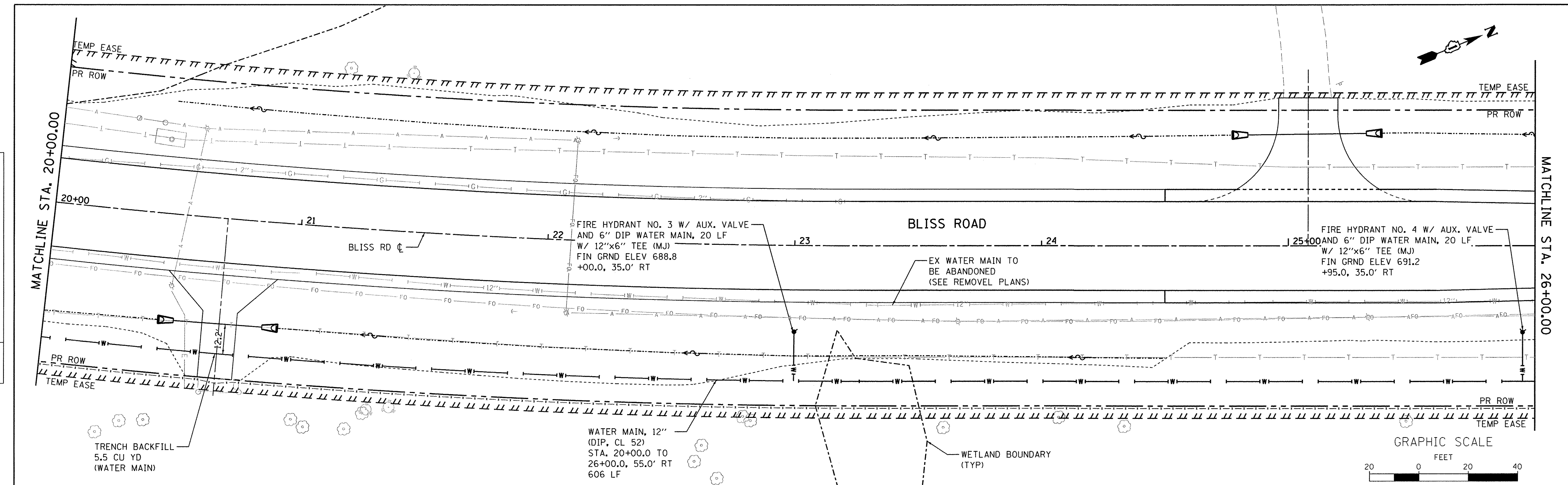
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	WBK ENGINEERING, LLC 116 WEST MAIN STREET, SUITE 201 ST. CHARLES, ILLINOIS 60174 (630) 443-7755	USER NAME = nparis	DESIGNED - SBP	REVISED - 10/17/16	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WATER MAIN PLAN & PROFILE	F.A.P. R.T.E. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 75	
		PLOT SCALE = 1:20	CHECKED - DBP	REVISED -								SCALE: 1"=20'
PLOT DATE = 10/24/2016		DATE = 8/8/16	REVISED -	REVISED -	SCALE: 1"=20'		SHEET NO. 2 OF 6 SHEETS		STA. 14+00.00 TO STA. 20+00.00		CONTRACT NO. 61D20	ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	BY	DATE
	ALIGNED		
	NOTED		
	RT. OF WAY CHECKED		
	NO. _____		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	ALIGNED		
	NOTED		
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	CADD FILE NAME		



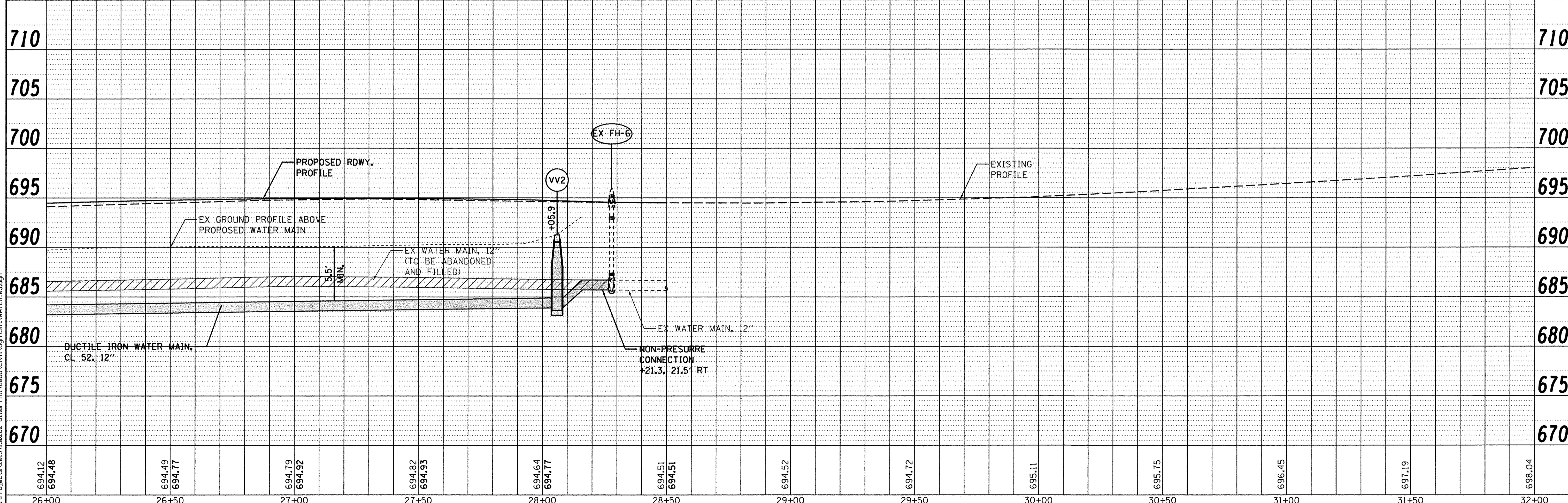
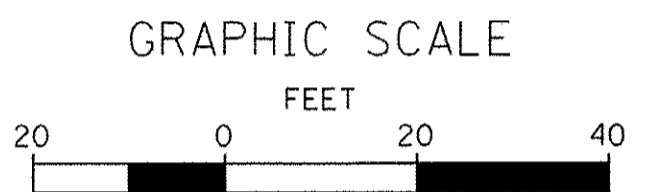
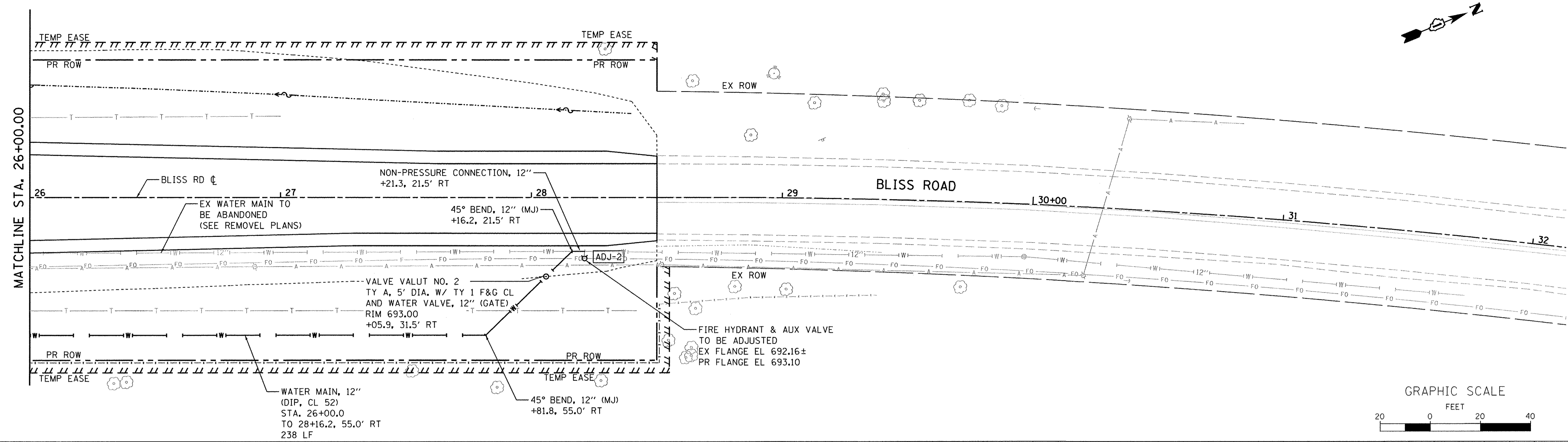
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	ALIGNED		
	ADJUSTED		
	RT. OF WAY CHECKED		
	NO. _____		
	NOTE BOOK		
	NO. _____		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLotted		
	STRUCTURE NOTATIONS CHRD		
	NO. _____		
	NOTE BOOK		
	NO. _____		

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26+00	26+50	27+00	27+50	28+00	28+50	29+00	29+50	30+00	30+50	31+00	31+50	32+00							

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 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

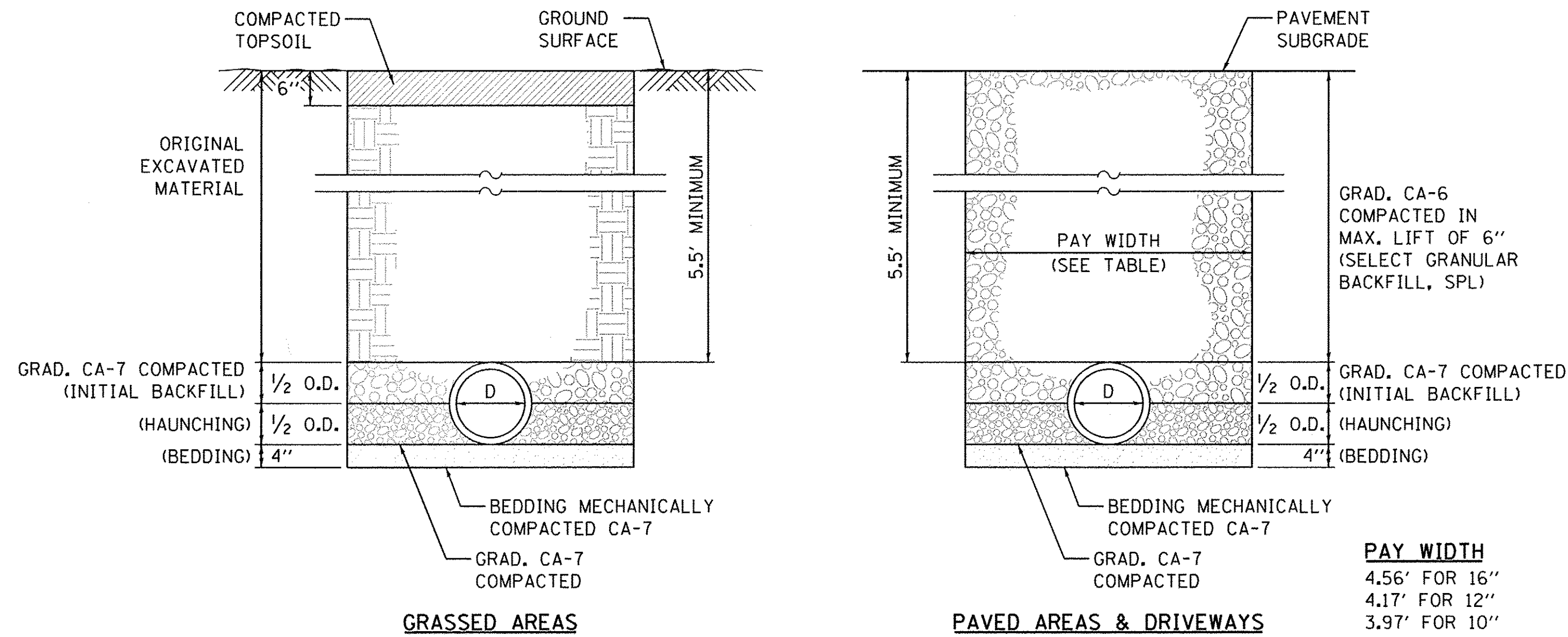
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DRAWN - NDP	CHECKED - DBP	REVISIED -
DATE - 8/8/16	REVISIED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER MAIN
PLAN & PROFILE

SCALE: 1"=20' SHEET NO. 4 OF 6 SHEETS STA. 26+00.00 TO STA. 28+50.00

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 77
CONTRACT NO. 61D20			ILLINOIS FED. AID PROJECT	



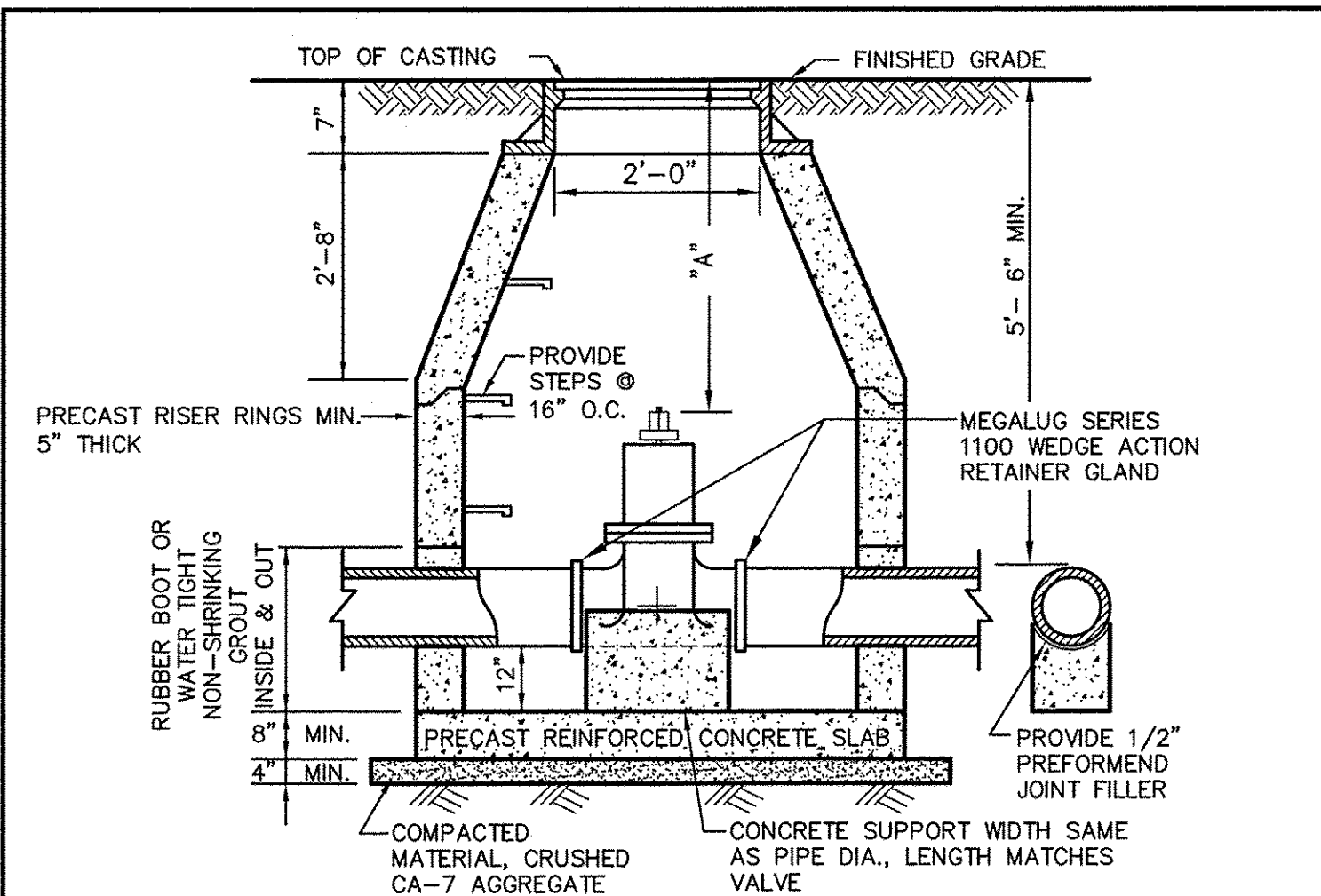
PAY WIDTH

4.56'	FOR 16"
4.17'	FOR 12"
3.97'	FOR 10"
3.78'	FOR 8"
3.58'	FOR 6"

WATER MAIN TRENCH DETAILS

NOTES:
 BEDDING, HAUNCHING AND INITIAL BACKFILL WILL NOT BE MEASURED SEPERATELY FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF WATER MAIN OF THE SIZE SPECIFIED.

N.T.S.

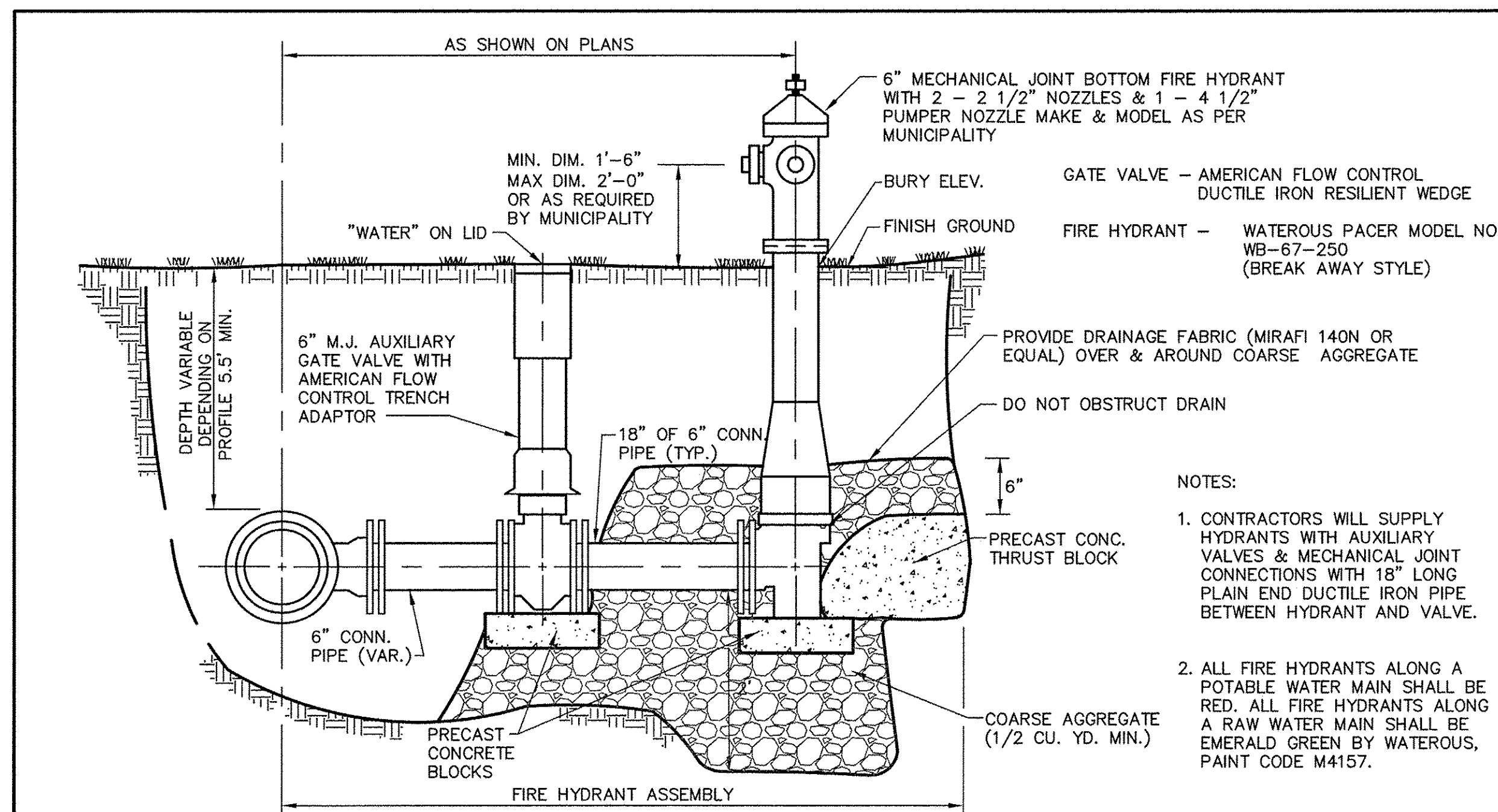


NOTES:

- VALVES FOR ALL WATER MAINS SHALL BE AMERICAN FLOW CONTROL DUCTILE IRON RESILIENT WEDGE GATE VALVES. IN ACCORDANCE WITH AWWA C-515 STANDARD. ALL VALVES SHALL BE INSTALLED IN VAULTS.
- IF "A" IS GREATER THAN 6'-0" PROVIDE AN EXTENSION ON THE OPERATING NUT.
- VALVE VAULT SHALL HAVE A DIA. OF 48" FOR 8" AND SMALLER VALVES AND 60" FOR 10" AND LARGER VALVES. PRECAST REINFORCED CONCRETE MANHOLE SECTIONS SHALL BE IN ACCORDANCE WITH A.S.T.M. C-478 AND SET IN BUTYL ROPE.
- FRAME AND LID SHALL BE IDOT TYPE 1. THE WORDS "VILLAGE OF SUGAR GROVE" AND "WATER" SHALL BE CAST INTO THE LID.
- A MAXIMUM OF 8" OF ADJUSTING RINGS SHALL BE USED. NO MORE THAN 2 ADJUSTING RINGS ARE ALLOWED. BITUMINOUS MASTIC BED FOR EACH RING AND CASTING IS REQUIRED.
- AT EACH JOINT, APPLY A CONTINUOUS LAYER OF PREFORMED NON-HARDENING BITUMINOUS MASTIC MATERIAL.
- VALVE MUST ALIGN WITH THE CENTER OF VAULT OPENINGS.
- CONES MUST BE CONCENTRIC UNLESS A PRESSURE TAP VALVE IS PROVIDED.

VALVE VAULT INSTALLATION

Village of Sugar Grove 10 Municipal Drive Sugar Grove, Illinois 60554 Phone: (630) 466-4507	SCALE: N.T.S.	FOLDER: SG-WA	DRAWING NUMBER: 02	DRAWN BY: CLN
	DATE: 03-26-07			REVISED:

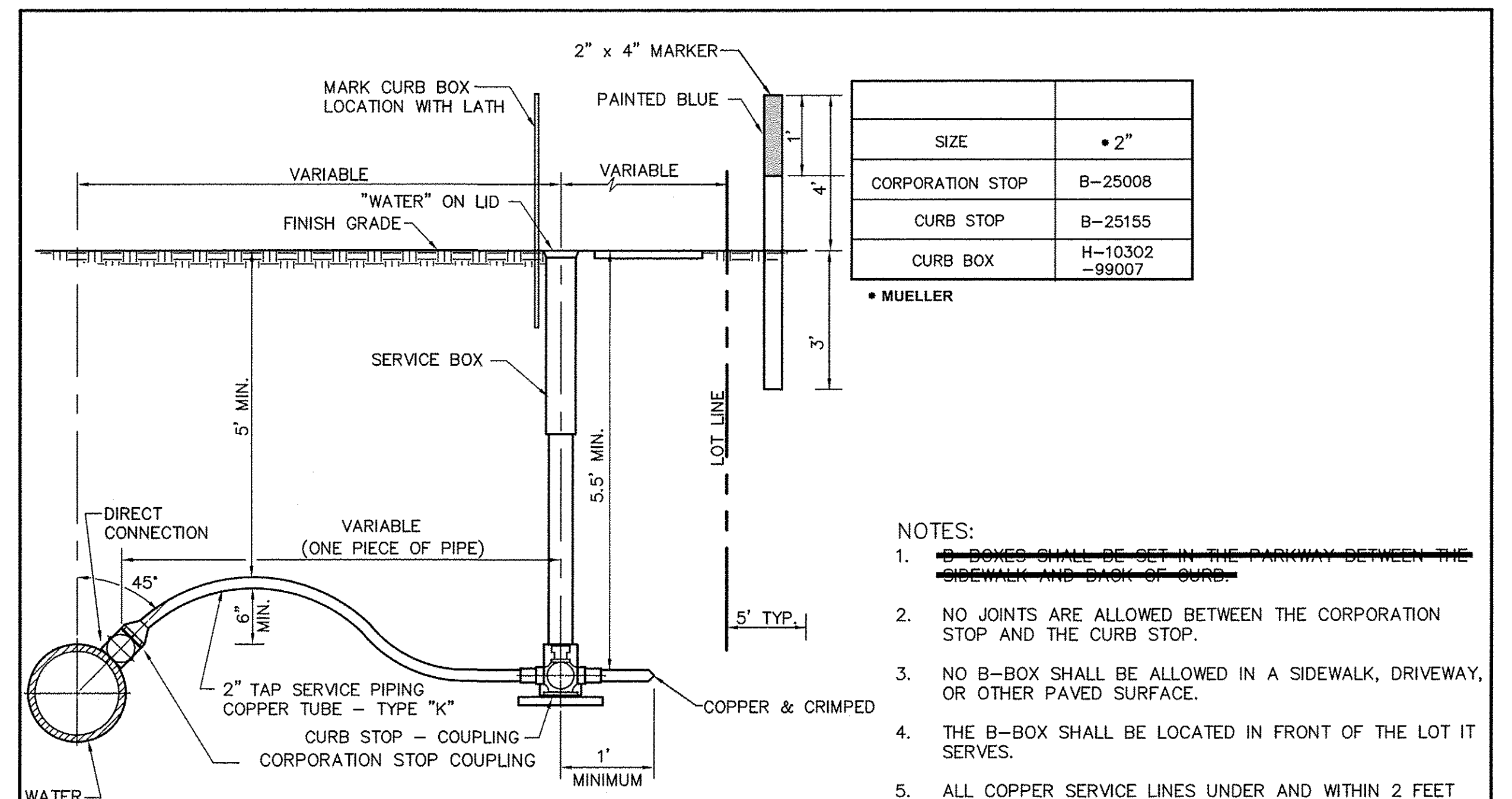


NOTES:

- CONTRACTORS WILL SUPPLY HYDRANTS WITH AUXILIARY VALVES & MECHANICAL JOINT CONNECTIONS WITH 18" LONG PLAIN END DUCTILE IRON PIPE BETWEEN HYDRANT AND VALVE.
- ALL FIRE HYDRANTS ALONG A POTABLE WATER MAIN SHALL BE RED. ALL FIRE HYDRANTS ALONG A RAW WATER MAIN SHALL BE EMERALD GREEN BY WATEROUS, PAINT CODE M4157.

FIRE HYDRANT ASSEMBLY INSTALLATION

Village of Sugar Grove 10 Municipal Drive Sugar Grove, Illinois 60554 Phone: (630) 466-4507	SCALE: N.T.S.	FOLDER: SG-WA	DRAWING NUMBER: 01	DRAWN BY: CLN
	DATE: 8/14/07			REVISED:



NOTES:

THIS WORK SHALL BE PAID FOR AS "WATER SERVICE CONNECTION, 2"."

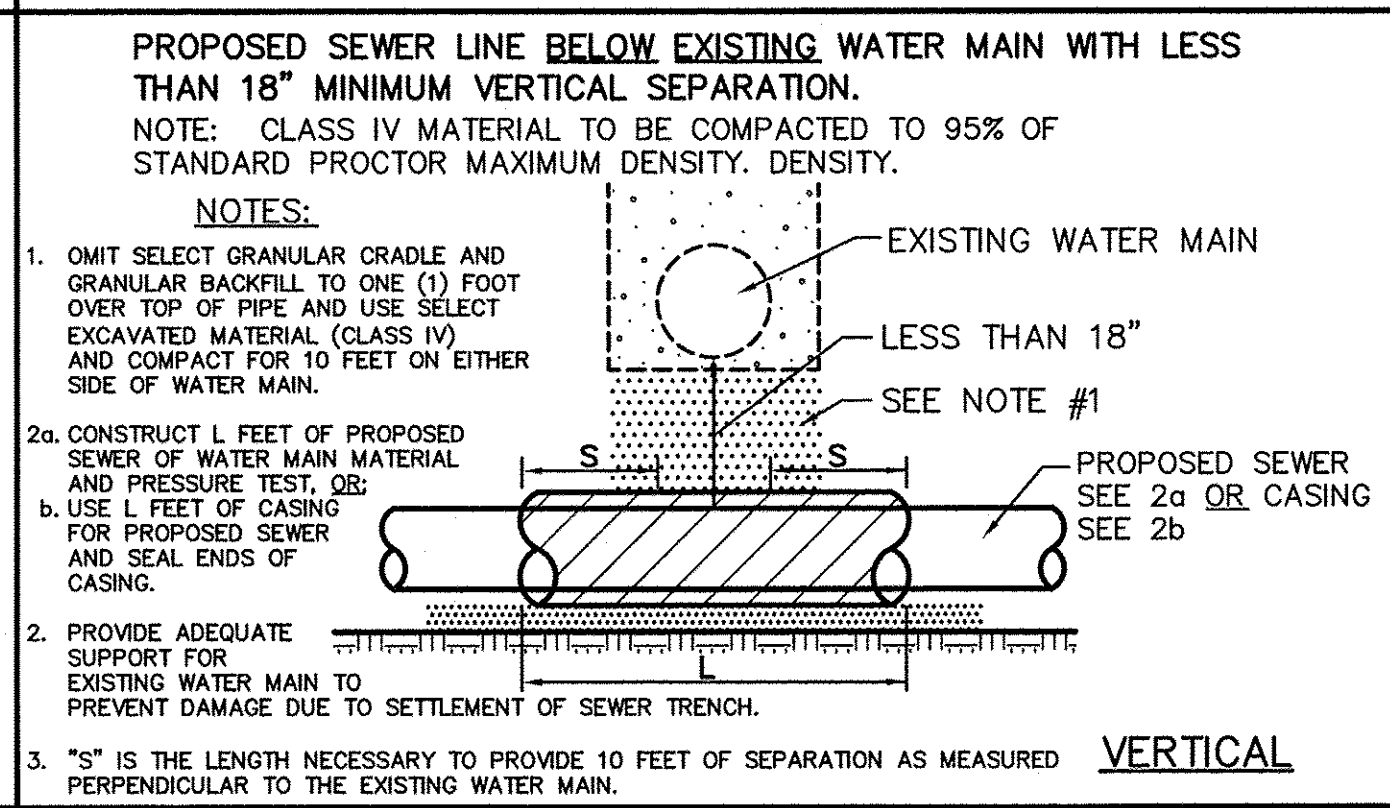
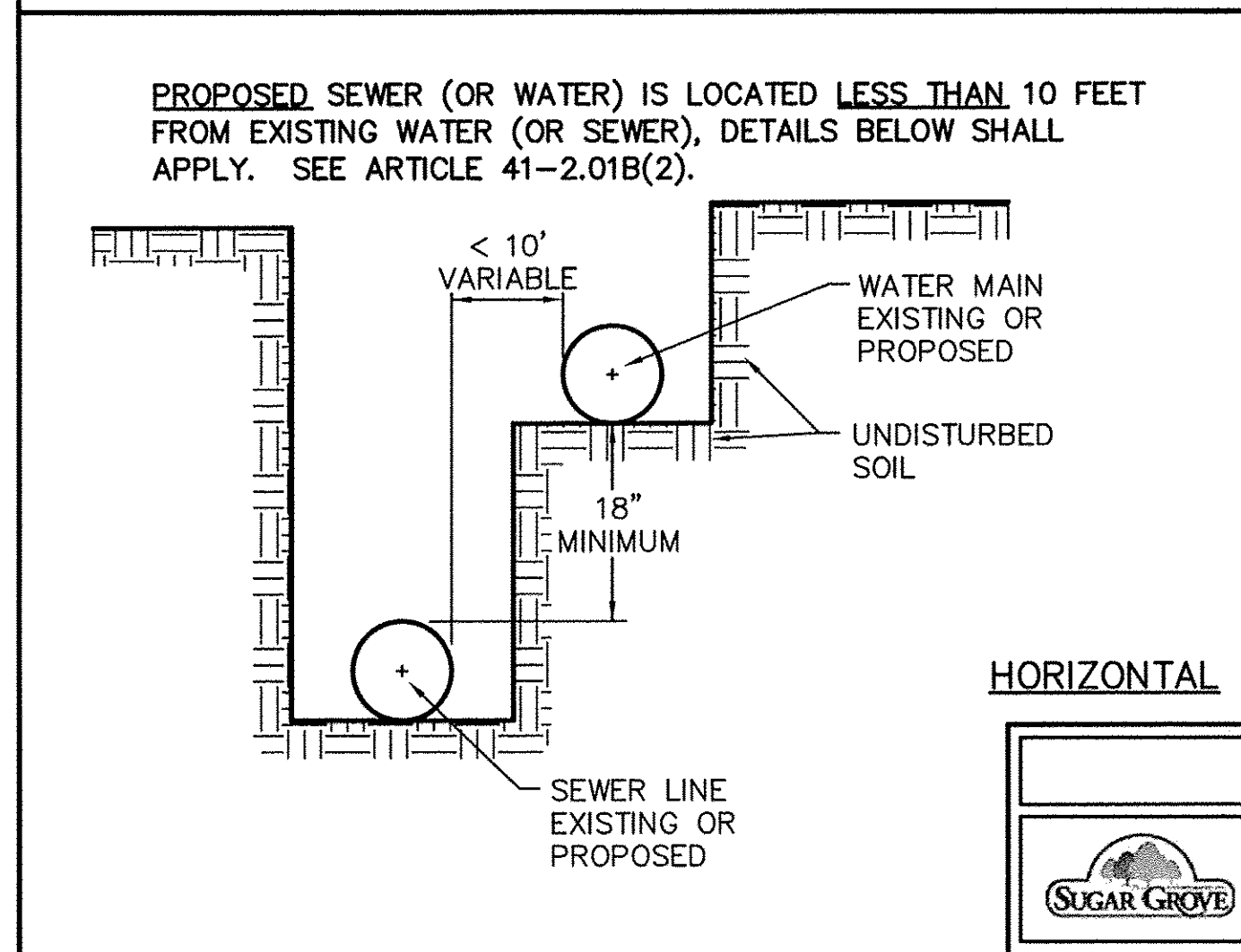
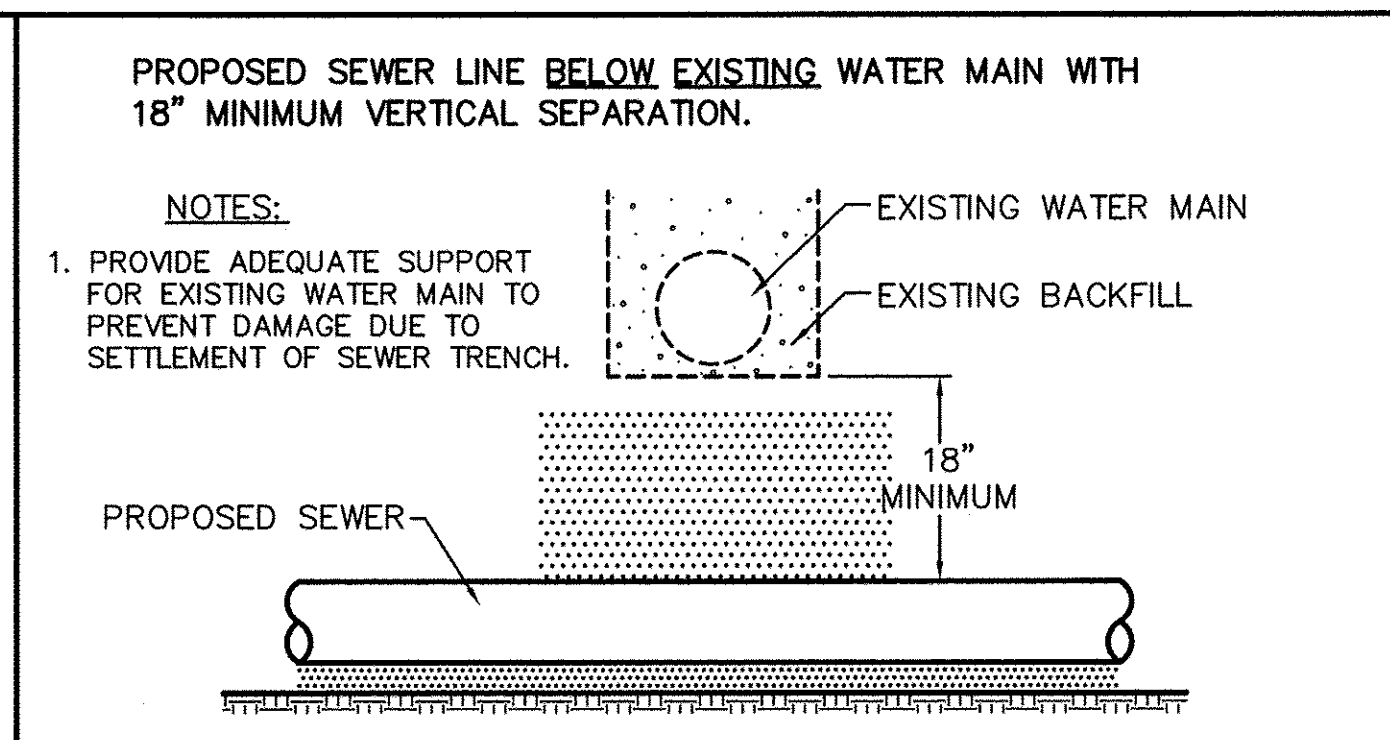
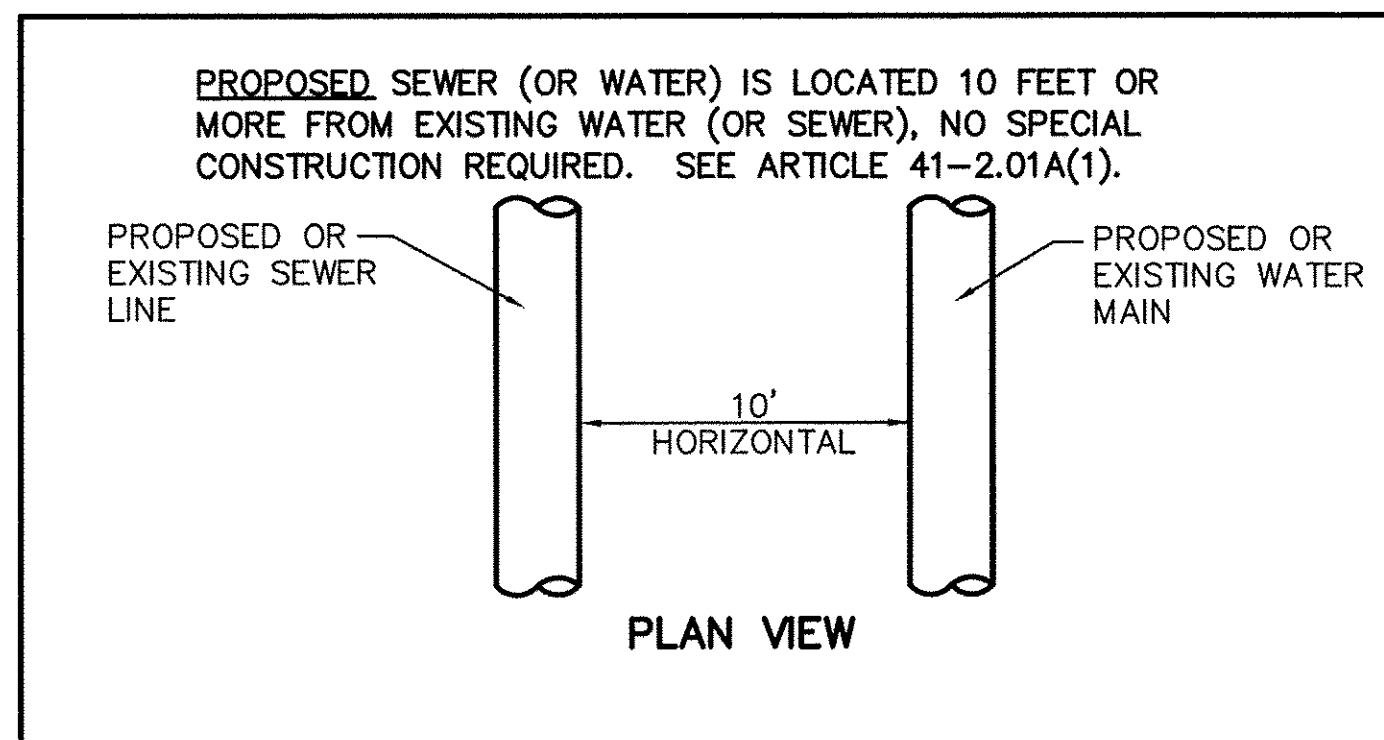
WATER SERVICE ACCESSORIES DETAIL

Village of Sugar Grove 10 Municipal Drive Sugar Grove, Illinois 60554 Phone: (630) 466-4507	SCALE: N.T.S.	FOLDER: SG-WA	DRAWING NUMBER: 04	DRAWN BY: CLN
	DATE: 8/14/07			REVISED:

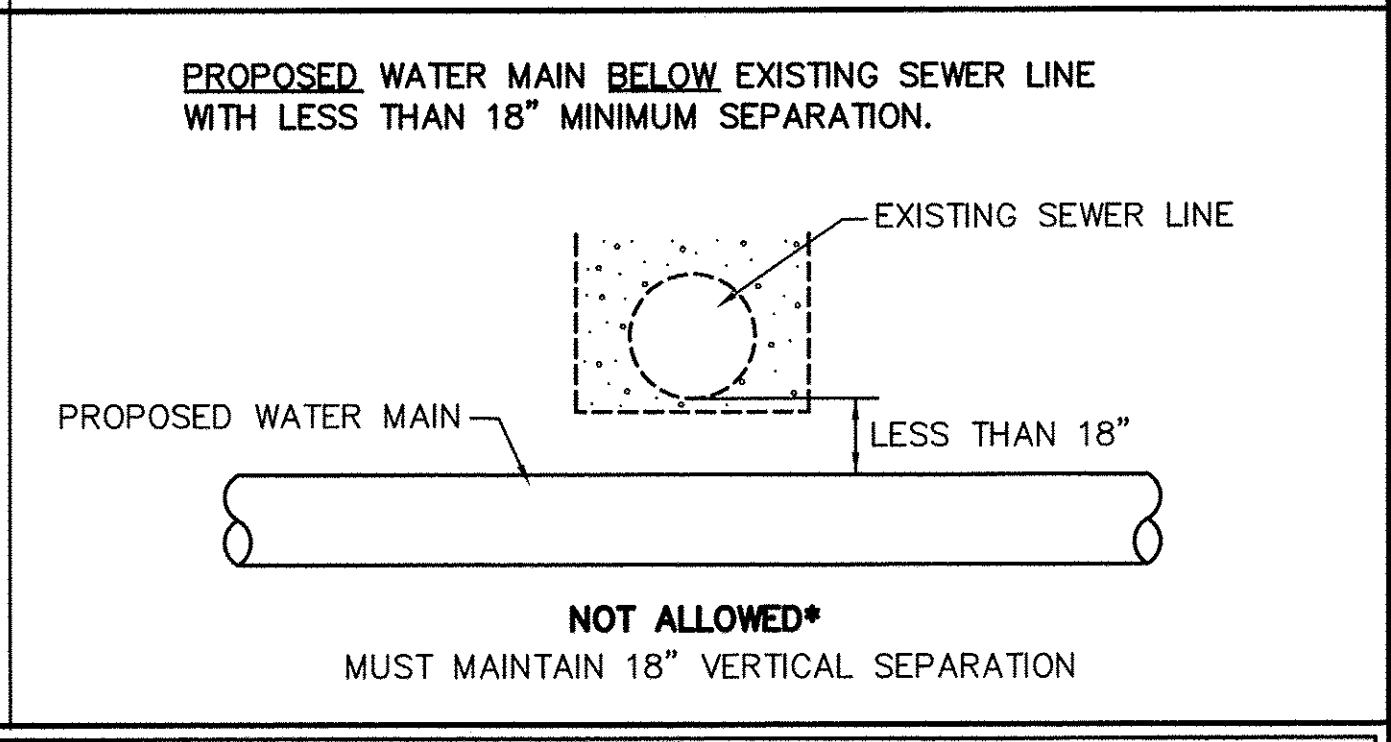
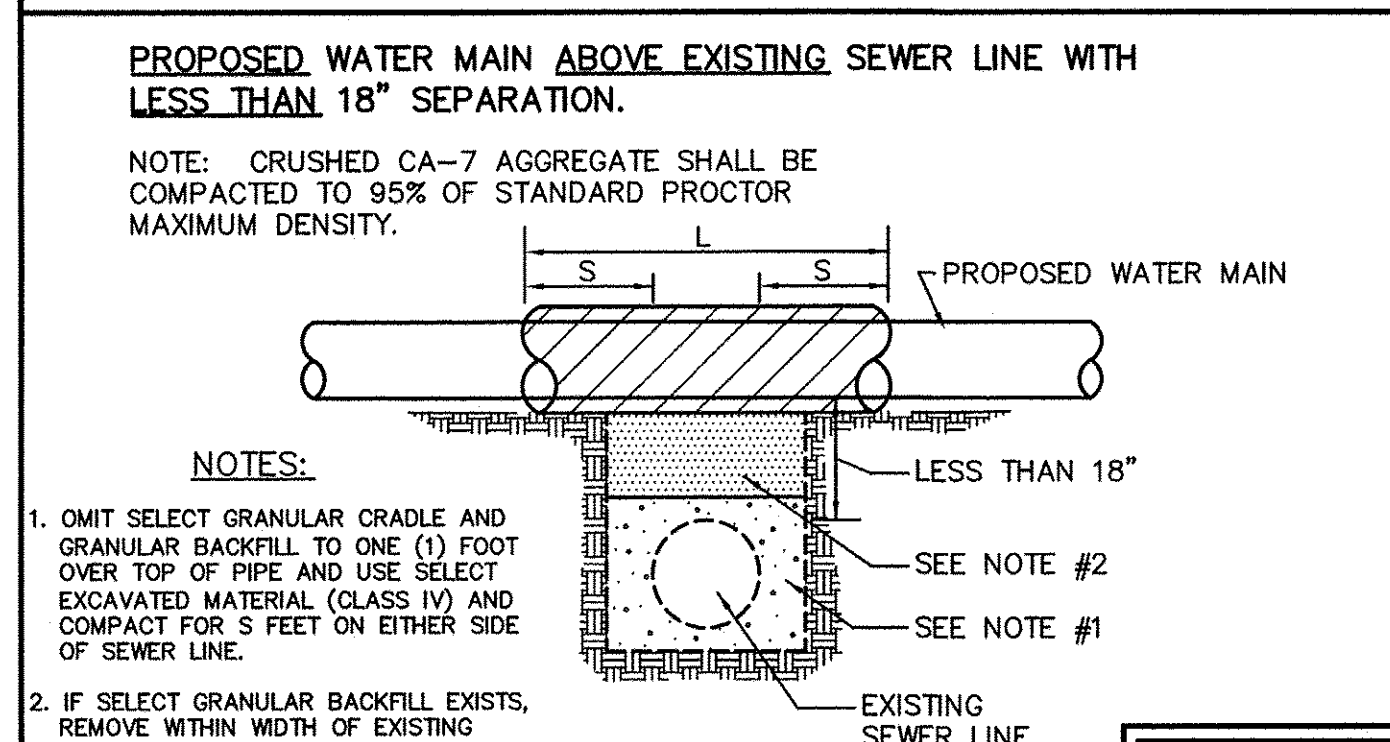
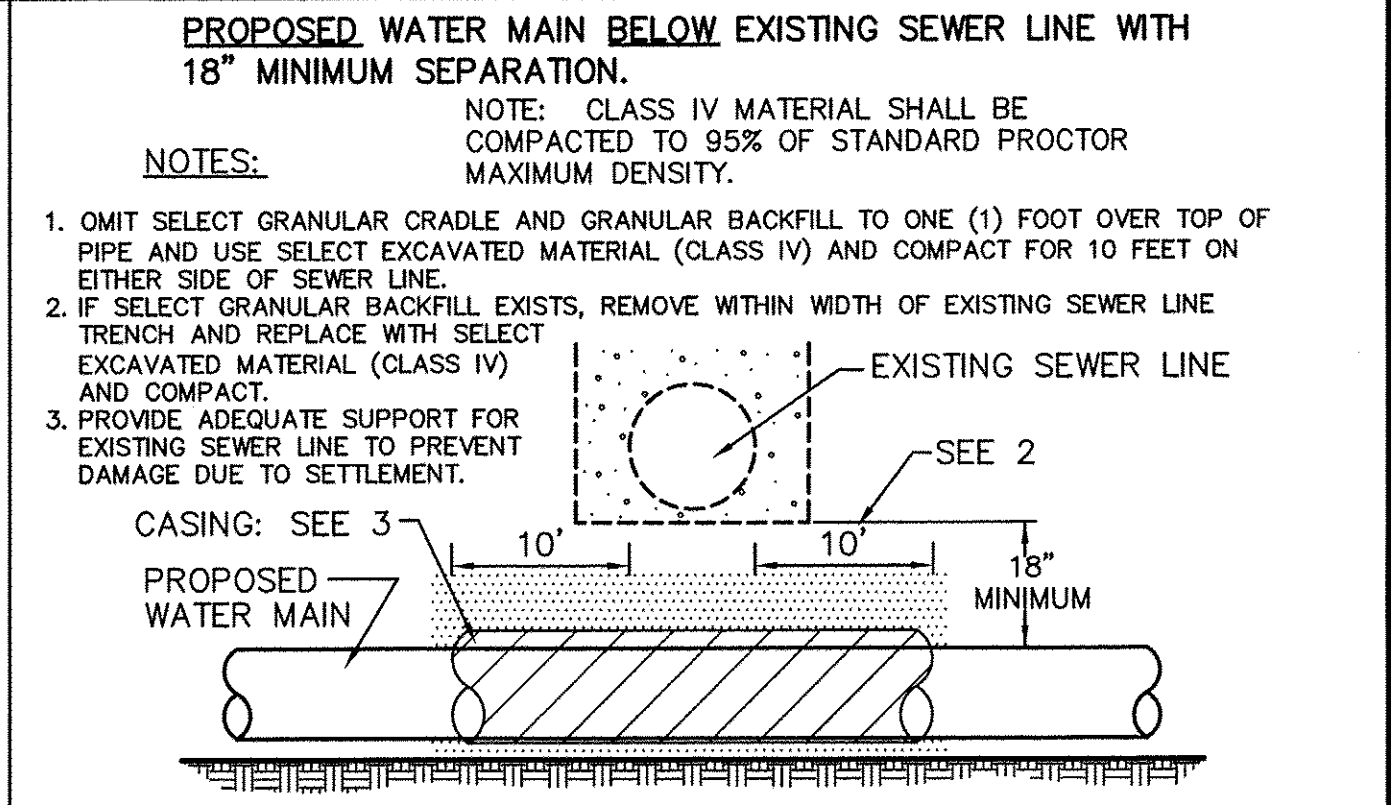
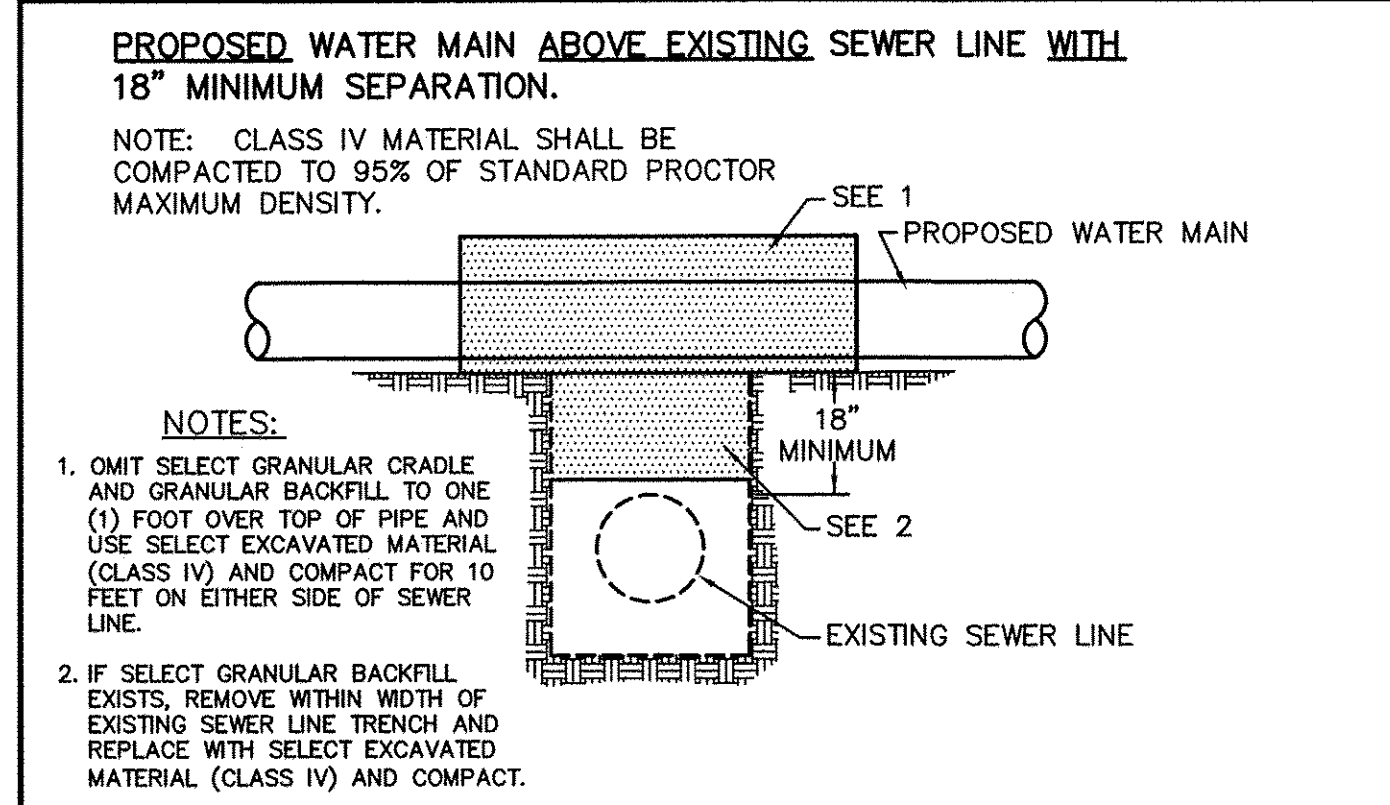
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	DATE = 8/8/16	REVISED -

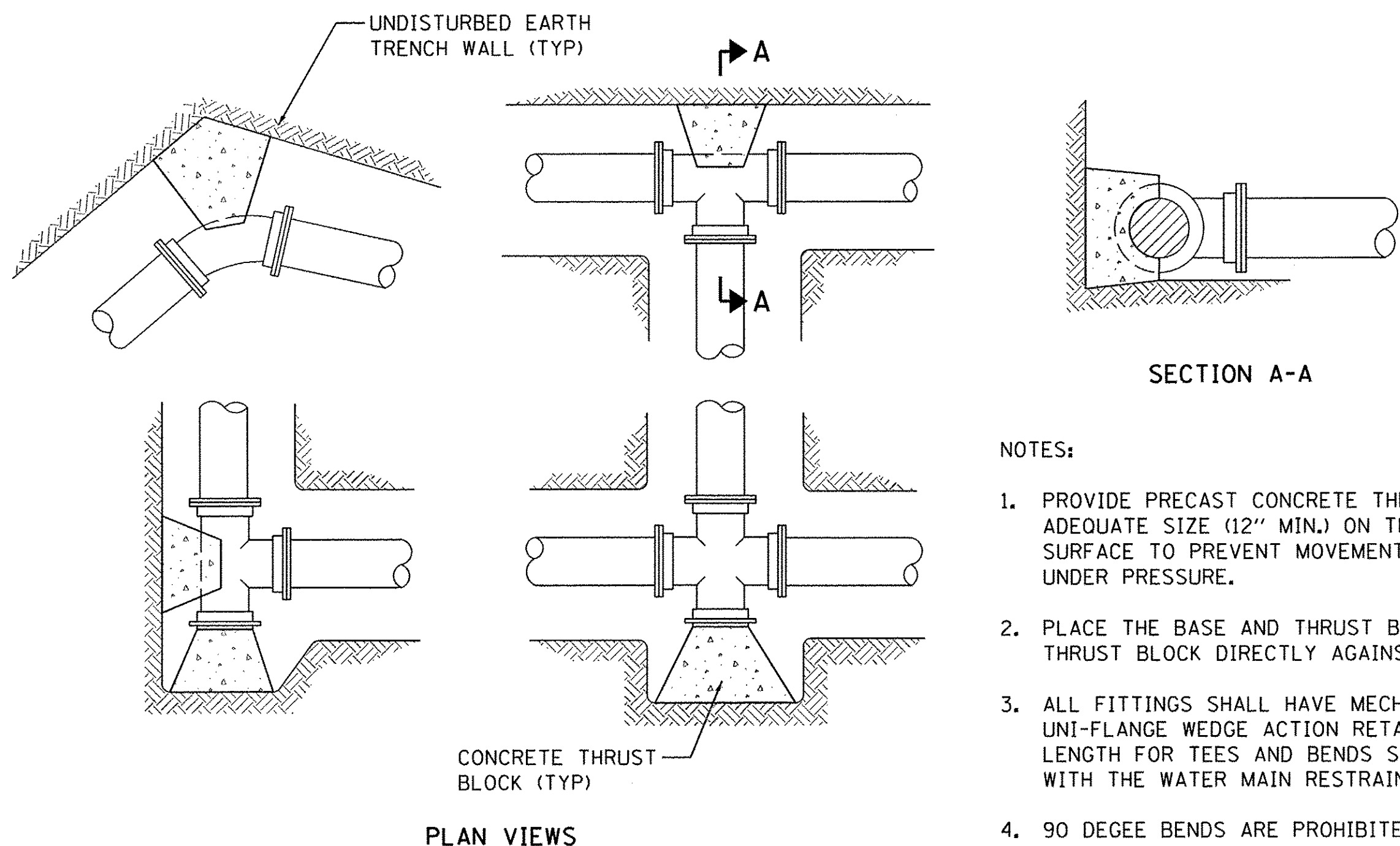
F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 78
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				



WATER & SEWER SEPARATION REQUIREMENTS				
	Village of Sugar Grove 10 Municipal Drive Sugar Grove, Illinois 60554 Phone: (630) 466-4507	SCALE: N.T.S.	FOLDER: SG-WA	DRAWING NUMBER: 05
		DATE: 5/18/07		DRAWN BY: CLN
				REVISED:



WATER & SEWER SEPARATION REQUIREMENTS				
	Village of Sugar Grove 10 Municipal Drive Sugar Grove, Illinois 60554 Phone: (630) 466-4507	SCALE: N.T.S.	FOLDER: SG-WA	DRAWING NUMBER: 06
		DATE: 5/18/07		DRAWN BY: CLN
				REVISED:



THRUST BLOCK INSTALLATION DETAILS

MINIMUM RESTRAINED LENGTHS (FEET) BACK FROM BOTH SIDES OF FITTING

FITTING TYPE / NOMINAL SIZE	4"	6"	12"
90 DEGREE BENDS	9	13	24
45 DEGREE BENDS	4	6	10
22.5 DEGREE BENDS	2	3	5
11.25 DEGREE BENDS	1	2	3
DEAD END	17	24	45
TOP SIDE VERTICAL OFFSET (45°)*	9	10	19
BOTTOM SIDE VERTICAL OFFSET (45°)*	4	4	7
TEE 12"x6"	SEE NOTE		
REDUCER 6"x4"	13		

DESIGN ASSUMPTIONS

- *2:1 SAFETY FACTOR
- *TEST PRESSURE 150 PSI
- *SOIL CLASSIFICATION CL
- *TRENCH TYPE NO. 5 (SEE TRENCH DETAIL)

NOTE: IF RESTRAINED JOINT LENGTH ALONG MAIN IS GREATER THAN 4' THEN RESTRAINED JOINT LENGTH ALONG BRANCH IS MIN. 1'

WATER MAIN RESTRAINT TABLE

THE CALCULATED RESTRAINED LENGTHS SHOWN IN THE TABLE HAVE BEEN CALCULATED BASED ON AVERAGE SOIL CONDITIONS TAKEN FROM THE GEOTECHNICAL REPORT AND DESIGN PARAMETERS FOR THE SPECIFIED BRAND OF RETAINER GLAND. THE INFORMATION IS MEANT FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR WILL BE REQUIRED TO VERIFY ACTUAL SITE CONDITIONS AND ADJUST, IF NECESSARY, THE LENGTH OF RESTRAINT REQUIRED BASED ON THE JOINT MANUFACTURERS RECOMMENDATIONS.

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WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparis	DESIGNED -	REVISED -
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PLOT DATE = 10/24/2016	CHECKED -	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

WATER MAIN DETAILS	
SCALE:	SHEET NO. 6 OF 6 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 79
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

POT STA. 103+00.00
 N 1,862,557.350
 E 955,092.816

BLACKBERRY CREEK

CHANNEL CROSS-SECTION
 LINE (TYP)
 (SEE CHANNEL XS SHEETS)

CHANNEL
 BASELINE

BLISS ROAD

BLISS ROAD

1:3 SIDE SLOPE

LIMITS OF GRADING
 (TYP)

WETLAND BOUNDARY
 (TYP)

WATERS EDGE
 (TYP)

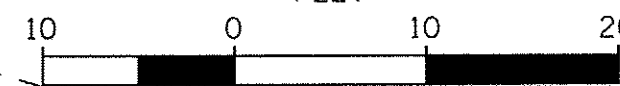
CHANNEL STA. 101+49.92
 BLISS RD STA. 16+24.63
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 E 955,216.577

PROP. CONTOURS
 (TYP)

EX. CONTOURS
 (TYP)

POT STA. 100+00.00
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 E 955,340.210

GRAPHIC SCALE



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WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 203
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

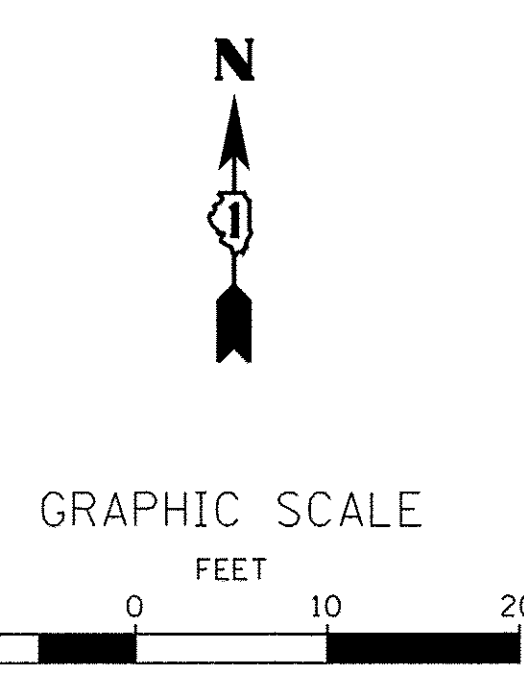
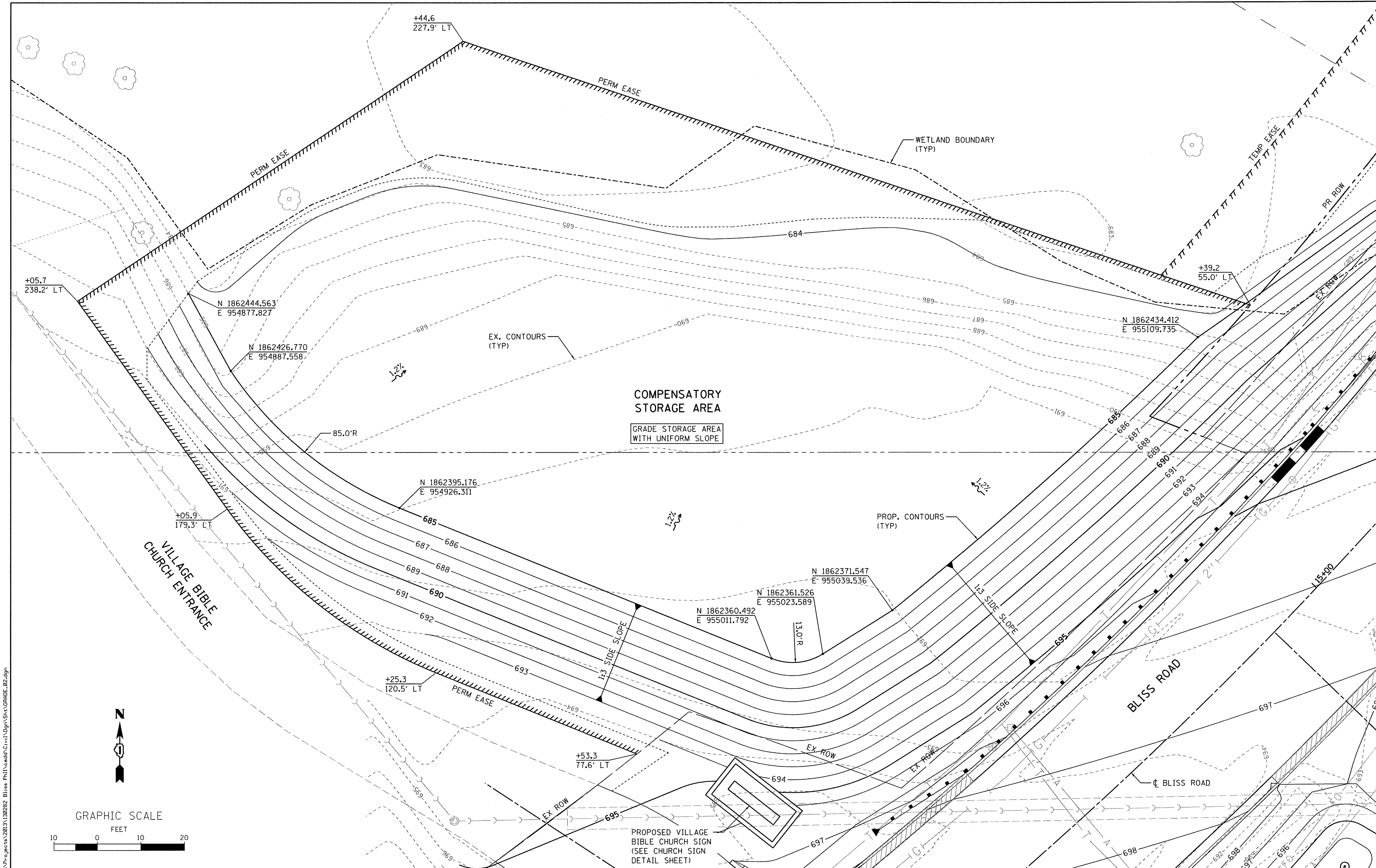
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DESIGNED - SBP	REVISED - 10/17/16
DRAWN - NDP	REVISED -
CHECKED - DPB	REVISED -
DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GRADING PLAN BRIDGE CHANNEL	
SCALE: 1"=10'	SHEET NO. 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 80
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				



FILE NAME = W:\Projects\2013\1302282 Bliss Phl\Road\Grading\Shk\GRADE_02.dgn

WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

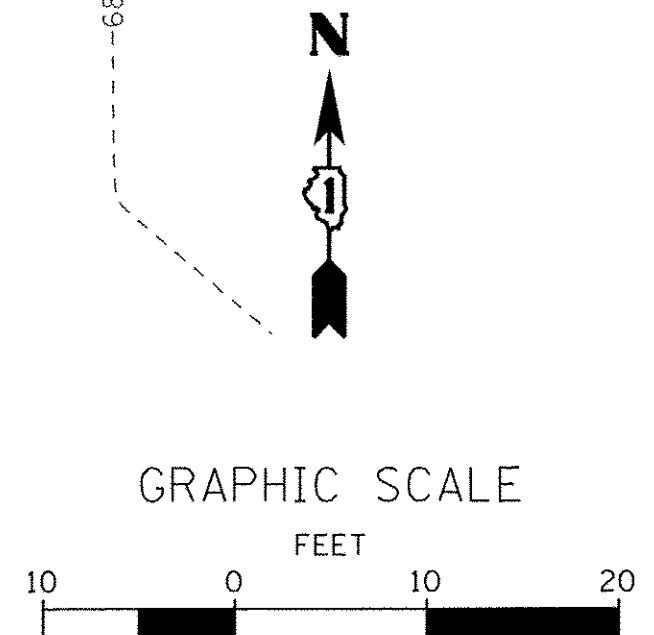
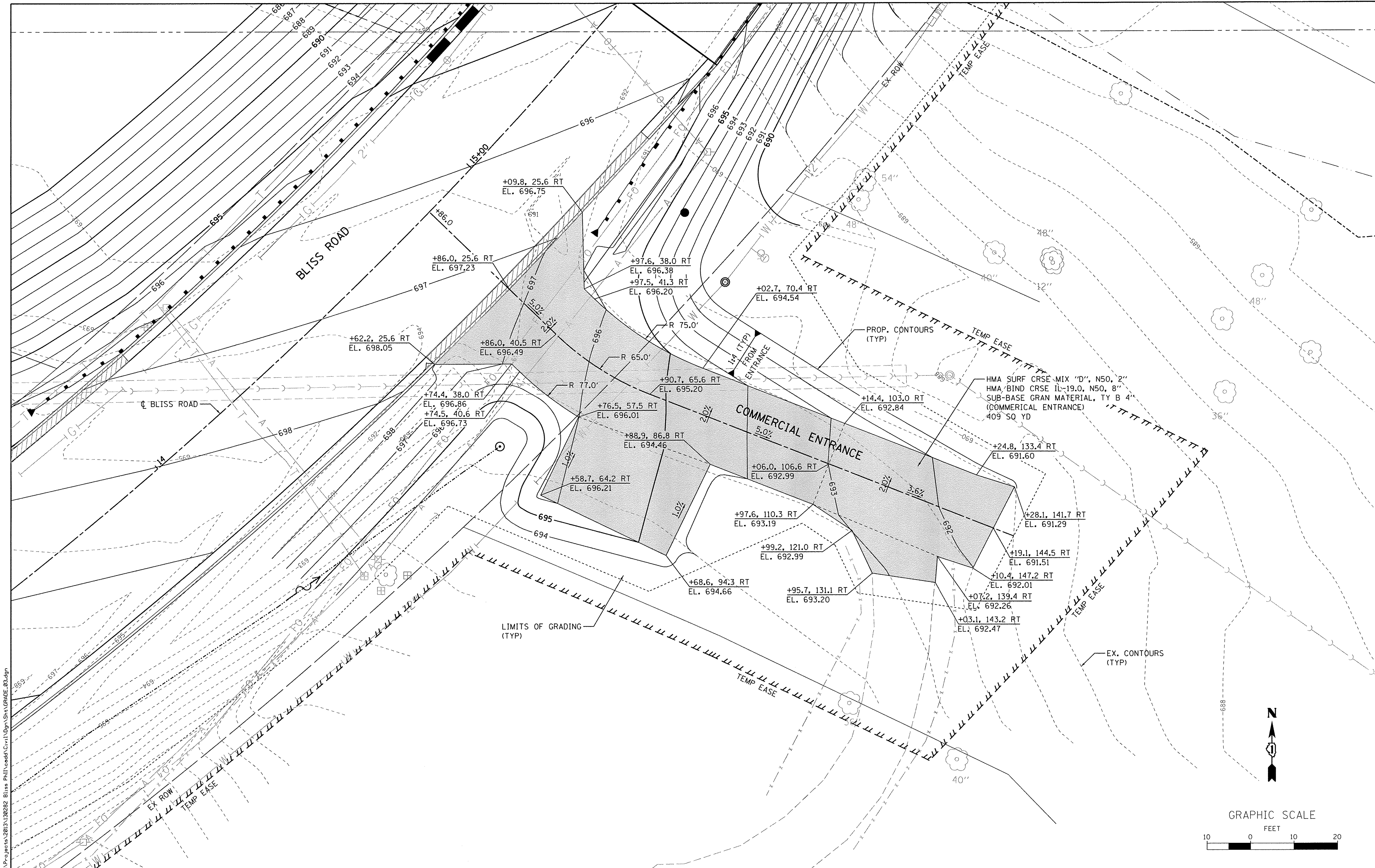
USER NAME = nparris	DESIGNED - JWJ	REVISED - 10/17/16
PLOT SCALE = 1:10	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN
COMPENSATORY STORAGE

SCALE: 1"=10' SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-0058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 81
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				



FILE NAME = W:\Projects\2013\130282 Bliss PH\Road\Grading\Sh\GRADE_03.dgn
 USER NAME = nparris

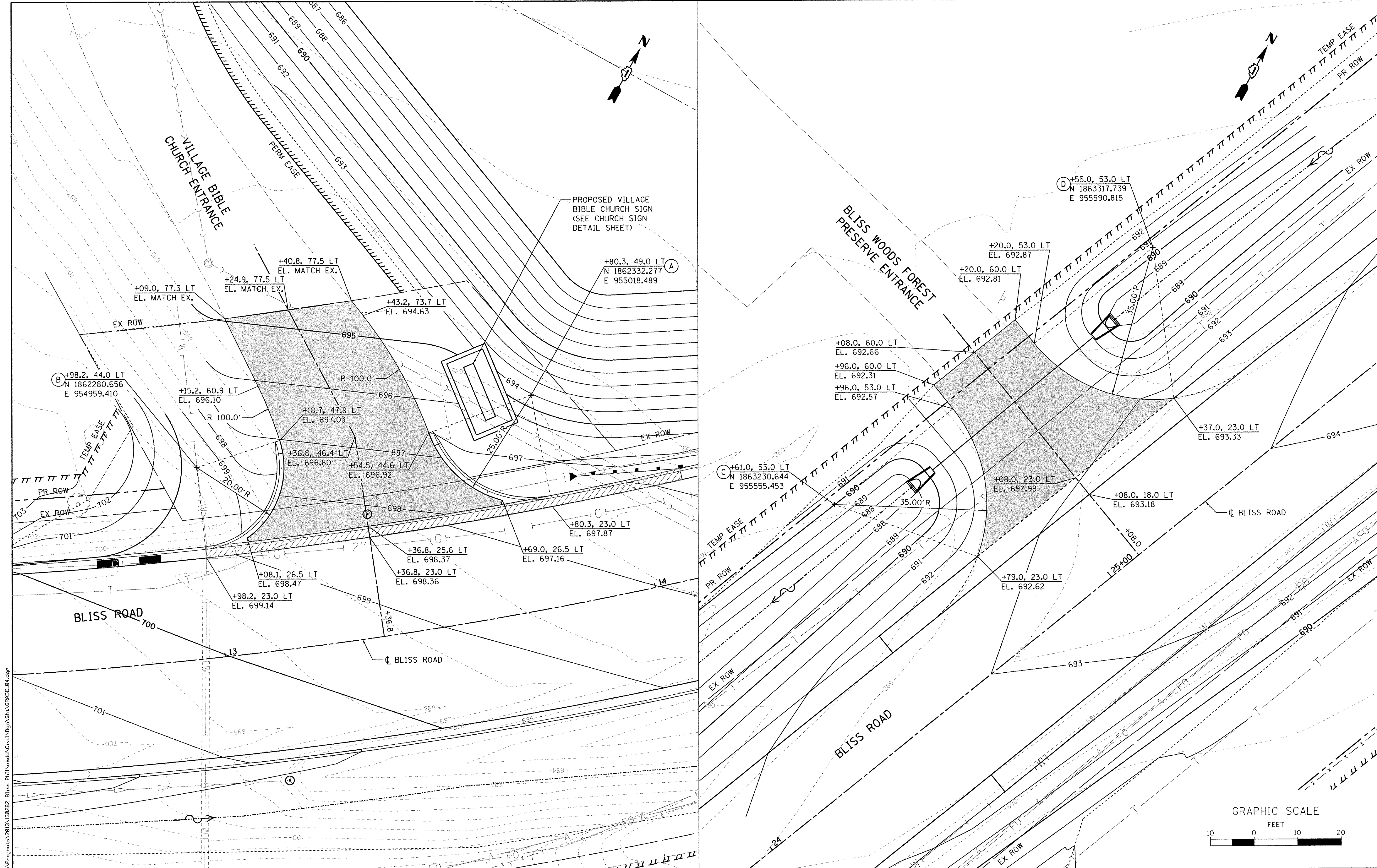
WBK engineering
WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

DESIGNED - SBP	REVISD - 10/17/16
DRAWN - NDP	REVISD -
CHECKED - DPB	REVISD -
DATE - 8/8/16	REVISD -
PLOT SCALE = 1:10	
PLOT DATE = 10/24/2016	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN	
COMMERCIAL ENTRANCE	
SCALE: 1"=10'	SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 82
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				



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 USER NAME = nparis

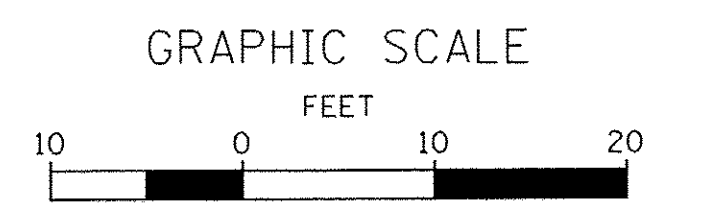
WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60374
 (630) 443-7755

DESIGNED - SBP	REVISD - 10/17/16
DRAWN - NDP	REVISD -
CHECKED - DPB	REVISD -
DATE - 8/8/16	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

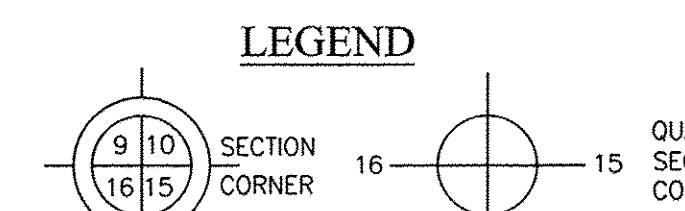
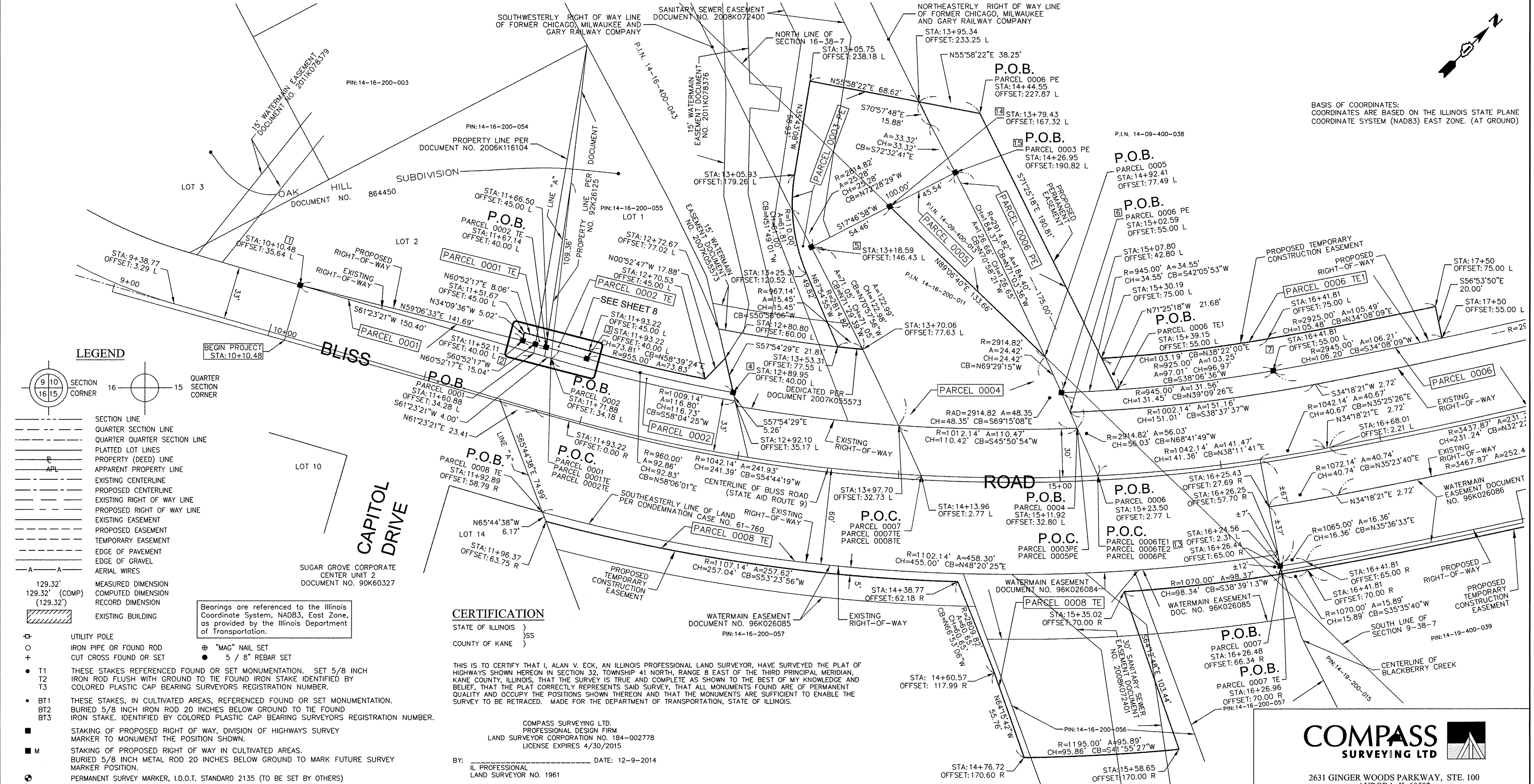
GRADING PLAN
VILLAGE BIBLE CHURCH & BLISS WOODS ENTRANCES
 SCALE: 1"=10' SHEET NO. 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 83
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				



PART OF THE SOUTH HALF OF SECTION 9 AND PART OF THE NORTH HALF OF SECTION 16, TOWNSHIP 38 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN KANE COUNTY, ILLINOIS

BASIS OF BEARINGS: NAD83, ILLINOIS EAST ZONE (1201) AT GROUND



Bearings are referenced to the Illinois Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

CERTIFICATION

STATE OF ILLINOIS)
 COUNTY OF KANE)

THIS IS TO CERTIFY THAT I, ALAN V. ECK, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREIN IN SECTION 32, TOWNSHIP 38 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, KANE COUNTY, ILLINOIS, 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 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 THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

COMPASS SURVEYING LTD.
 PROFESSIONAL DESIGN FIRM
 LAND SURVEYOR CORPORATION NO. 184-002778
 LICENSE EXPIRES 4/30/2015

BY: IL PROFESSIONAL LAND SURVEYOR NO. 1961
 DATE: 12-9-2014
 LICENSE EXPIRES 11/30/16

PARCEL NO.	OWNER	TOTAL HOLDING	AREA TAKEN	AREA IN EXISTING R.O.W.	REMAINDER	EASEMENTS		PURPOSE OF EASEMENT	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY	REVISION	
						TEMP	PERM				DATE	DESCRIPTION
0001	PHILIP S. NELSON	0.483 AC.	0.010 AC. (447 S.F.)		0.473 AC.	0.001 AC. (41 S.F.)		CONSTRUCTION	14-16-200-054		6-4-14	PER COUNTY COMMENTS
0002	JACK E. MORLEY AND KAYE MORLEY, IN JOINT TENANCY	0.315 AC.	0.015 AC. (647 S.F.)		0.300 AC.	0.016 AC. (713 S.F.)		CONSTRUCTION	14-16-200-055		7-1-14	PER COUNTY COMMENTS
0003	VILLAGE BIBLE CHURCH OF SUGAR GROVE, AN ILLINOIS RELIGIOUS CORPORATION	7.000 AC.	0.171 AC.		6.829 AC.	0.171 AC.			14-09-400-043		8-12-14	PER COUNTY COMMENTS
0004	LUANNE C. MURRUSH	0.278 AC.	0.278 AC.		0 AC.				14-16-200-011			
0005	LEIGH SAUER	0.068 AC.	0.068 AC.		0 AC.				14-09-400-013			
0008	KARI E. SWANSON	3.670 AC.	0.311 AC.		3.359 AC.	0.311 AC.		CONSTRUCTION	14-16-200-056 14-16-200-057			

COMPASS SURVEYING LTD.

2631 GINGER WOODS PARKWAY, STE. 100
 AURORA, IL 60502
 PHONE: (630) 820-9100 FAX: (630) 820-7030

JOB NO. 9764

KANE COUNTY DIVISION OF TRANSPORTATION
 PLAT OF HIGHWAYS
 FAP 520 (BLISS ROAD OVER BLACKBERRY CREEK)
 SECTION #08-00058-02-BR
 COUNTY KANE
 JOB# R-91-007-09
 PROJECT# #BHOS-0089(123)
 STA 10+10.48 TO STA 28+55.04
 DRAWN MRA CHECKED AE
 SCALE: 1" = 30' SHEET NO. 2 OF 9

WBK engineering

WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nparr15	DESIGNED -	REVISED -
PLOT SCALE = 1:1	DRAWN -	REVISED -
PLOT DATE = 10/24/2016	CHECKED -	REVISED -
	DATE - 8/8/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS
FOR REFERENCE ONLY

SCALE: SHEET NO. 1 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	84
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

FILE NAME = W:\Projects\2013\130282 - Bliss Plat\cadd\Civil\Dgn\Shr\PLAT_01.dgn

PART OF THE SOUTH HALF OF SECTION 9 AND PART OF THE NORTH HALF OF SECTION 16, TOWNSHIP 38 NORTH,
RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN KANE COUNTY, ILLINOIS

BASIS OF BEARINGS: NAD83, ILLINOIS EAST ZONE (1201) AT GROUND

LEGEND

SECTION CORNER 16 15
QUARTER SECTION CORNER

SECTION LINE
QUARTER SECTION LINE
QUARTER QUARTER SECTION LINE
PLATTED LOT LINES
PROPERTY (DEED) LINE
APL
APPARENT PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
EXISTING EASEMENT
PROPOSED EASEMENT
TEMPORARY EASEMENT
EDGE OF PAVEMENT
EDGE OF GRAVEL
AERIAL WIRES

MEASURED DIMENSION
COMPUTED DIMENSION
(129.32')
RECORD DIMENSION
EXISTING BUILDING

UTILITY POLE
IRON PIPE OR FOUND ROD
CUT CROSS FOUND OR SET

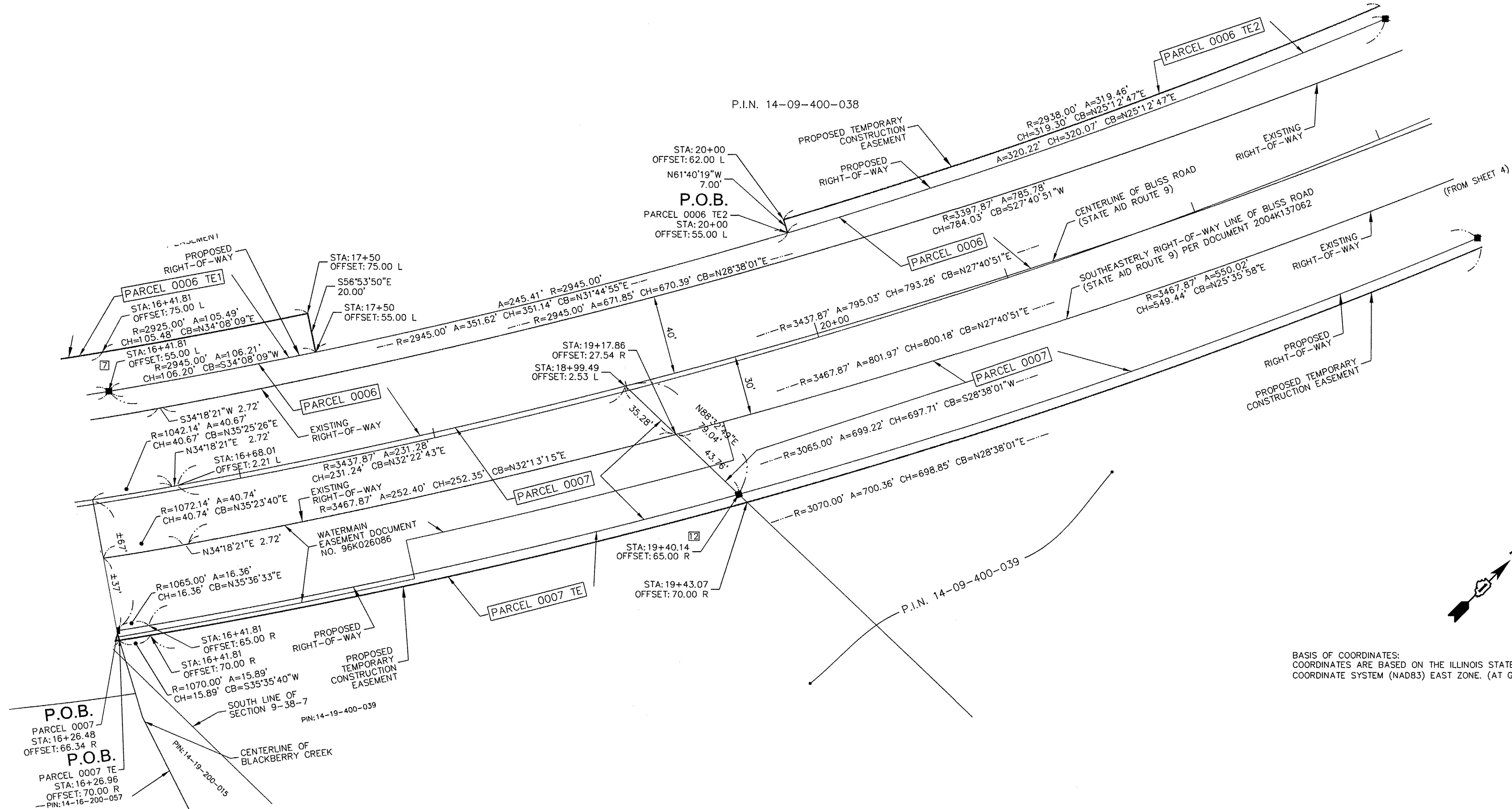
T1 THESE STAKES REFERENCED FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
T2 THESE STAKES, IN CULTIVATED AREAS, REFERENCED FOUND OR SET MONUMENTATION.
BT1 BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
BT2
BT3

STAKING OF PROPOSED RIGHT OF WAY, DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN.

STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS.
BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION.

PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
RIGHT OF WAY STAKING PROPOSED TO BE SET

BY	DATE
MADE	
LINKED	
NOTEBOOK	
NO.	



2631 GINGER WOODS PARKWAY, STE. 100
AURORA, IL 60502
PHONE: (630) 820-9100 FAX: (630) 820-7030

JOB NO. 9764
KANE COUNTY DIVISION OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 520 (BLUSS ROAD OVER BLACKBERRY CREEK)
SECTION #08-00058-02-BR
COUNTY KANE
JOB# R-91-007-09
PROJECT# #BHOS-0089(123)
STA 10+10.48 TO STA 28+55.04
DRAWN MRA CHECKED AE
SCALE: 1" = 30' SHEET NO. 3 OF 9

REVISION	
DATE	DESCRIPTION
6-4-14	PER COUNTY COMMENTS
7-1-14	PER COUNTY COMMENTS
8-12-14	PER COUNTY COMMENTS

PARCEL NO.	OWNER	TOTAL HOLDING	AREA TAKEN	AREA IN EXISTING R.O.W.	REMAINDER	EASEMENTS		PURPOSE OF EASEMENT	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
						TEMP	PERM			
0006 0006 PE 0006 TE1 0006 TE2	FOREST PRESERVE DISTRICT OF KANE COUNTY	136.120 AC.	1.656 AC.	1.218 AC.	134.464 AC.	0.095 AC.	0.136 AC.	CONSTRUCTION	14-09-400-038 14-09-300-043	
0007 0007 TE	ALPINE BANK AND TRUST COMPANY, AS TRUSTEE UNDER TRUST NO. 3699	34.313 AC.	1.201 AC.	0.196 AC.	33.112 AC.	0.147 AC.		CONSTRUCTION	14-16-200-015 14-16-200-052 14-09-400-039	

ROUTE: FAP 520 SECTION: 08-00058-02-BR COUNTY: KANE JOB# P-91-162-09, R-91-007-09 RECORDING: RECORDED ON / / AS DOCUMENT NO.

FILE NAME: W:\Projects\2013\130282 B\as PH\road\Civil\Dgn\Shk\PLAT.02.dgn

WBK engineering
WBK ENGINEERING, LLC
316 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nporris	DESIGNED -	REVISED -
PLOT SCALE = 1:1	DRAWN -	REVISED -
PLOT DATE = 10/24/2016	CHECKED -	REVISED -
	DATE = 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

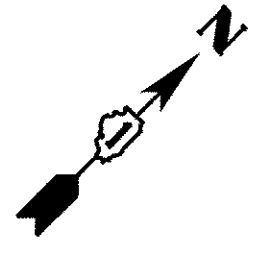
**PLAT OF HIGHWAYS
FOR REFERENCE ONLY**

SCALE: SHEET NO. 2 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 85
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

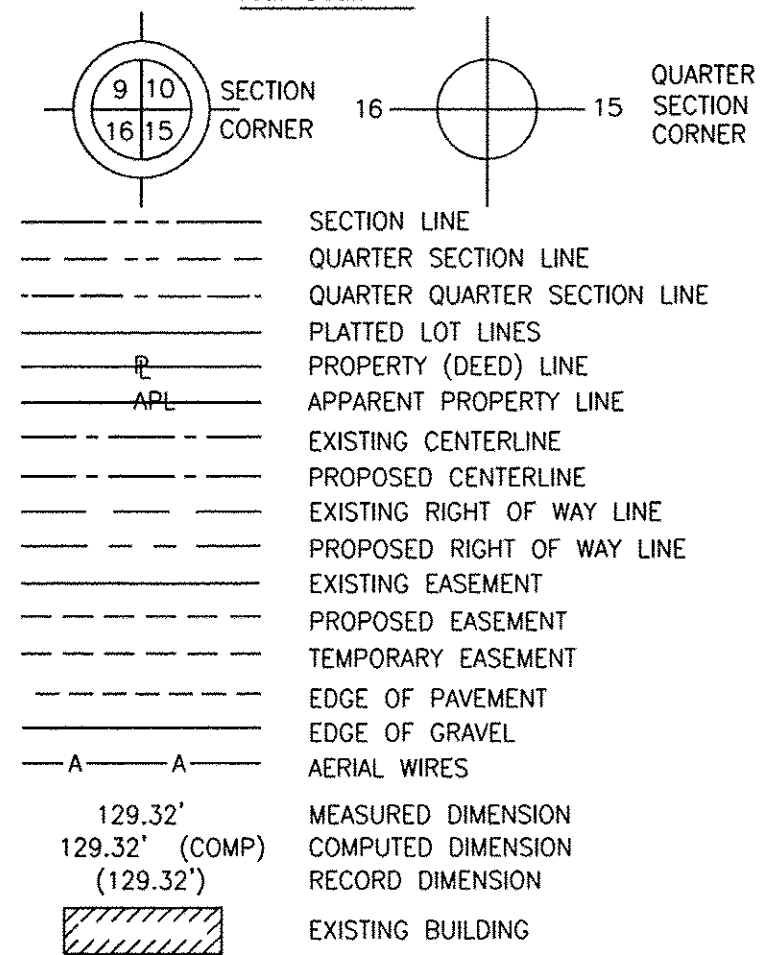
PART OF THE SOUTH HALF OF SECTION 9 AND PART OF THE NORTH HALF OF SECTION 16, TOWNSHIP 38 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN KANE COUNTY, ILLINOIS

BASIS OF BEARINGS: NAD83, ILLINOIS EAST ZONE (1201) AT GROUND



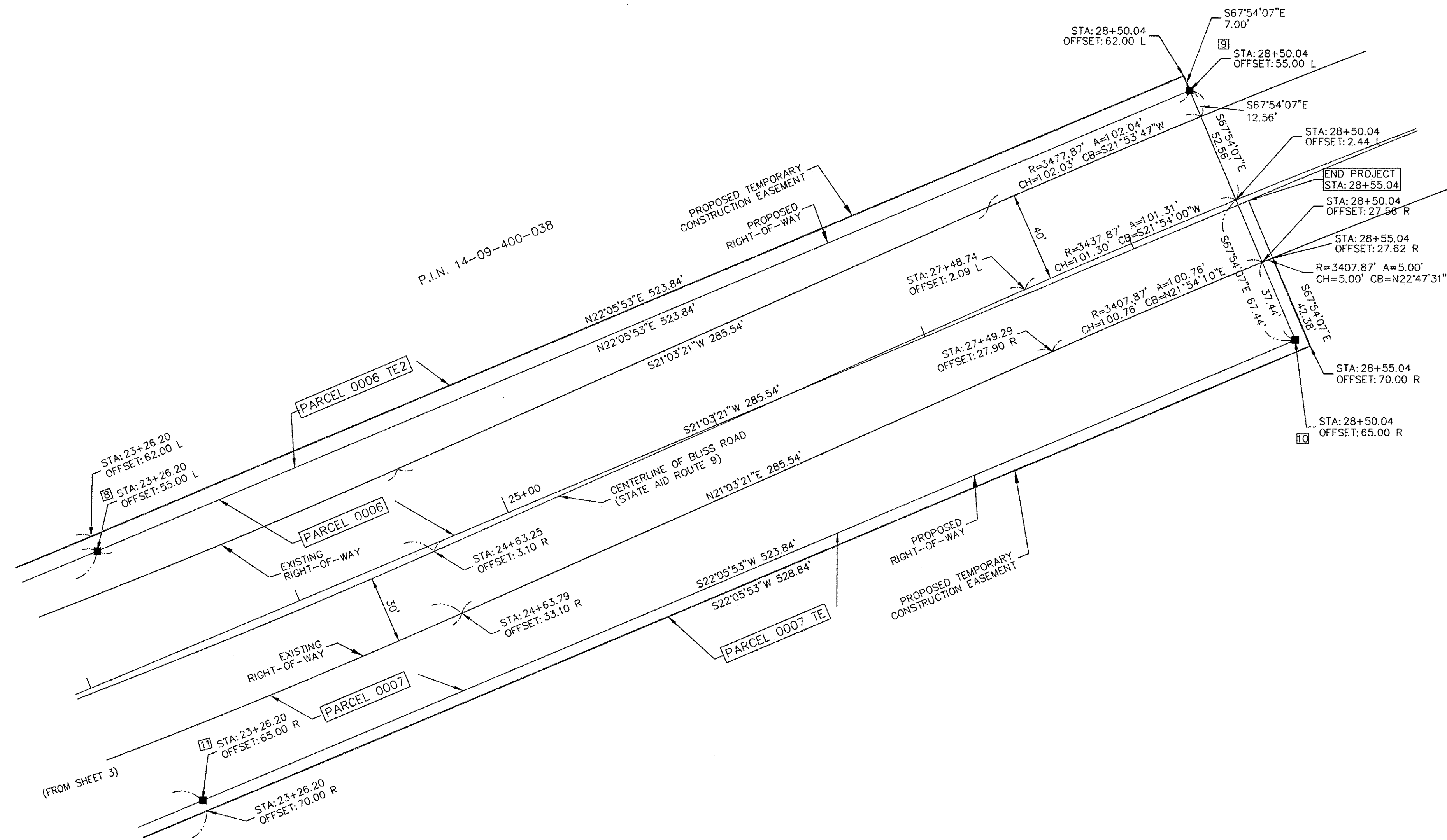
BASIS OF COORDINATES:
COORDINATES ARE BASED ON THE ILLINOIS STATE
PLANE COORDINATE SYSTEM (NAD83) EAST ZONE.
(AT GROUND)

LEGEND



Bearings are referenced to the Illinois Coordinate System, NAD83, East Zone, as provided by the Illinois Department of Transportation.

- ⊕ UTILITY POLE
- IRON PIPE OR FOUND ROD
- ⊙ "MAG" NAIL SET
- + CUT CROSS FOUND OR SET
- 5 / 8" REBAR SET
- T1 THESE STAKES REFERENCED FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- T2
- T3
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCED FOUND OR SET MONUMENTATION.
- BT2 BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- BT3
- STAKING OF PROPOSED RIGHT OF WAY, DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN.
- M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET



BY	DATE
MADE	
CHECKED	
TRIED	
R.O.W. PLAT	
NOTEBOOK NO.	

PARCEL NO.	OWNER	TOTAL HOLDING	AREA TAKEN	AREA IN EXISTING R.O.W.	REMAINDER	EASEMENTS		PURPOSE OF EASEMENT	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
						TEMP	PERM			
0006 0006 PE 0006 TE1 0006 TE2	FOREST PRESERVE DISTRICT OF KANE COUNTY	136.120 AC.	1.656 AC.	1.218 AC.	134.464 AC.	0.095 AC.	0.136 AC.	CONSTRUCTION	14-09-400-038 14-09-300-043	
0007 0007 TE	ALPINE BANK AND TRUST COMPANY, AS TRUSTEE UNDER TRUST NO. 3699	34.313 AC.	1.201 AC.	0.196 AC.	33.112 AC.		0.147 AC.	CONSTRUCTION	14-16-200-015 14-16-200-052 14-09-400-039	

REVISION	
DATE	DESCRIPTION
6-4-14	PER COUNTY COMMENTS
7-1-14	PER COUNTY COMMENTS
8-12-14	PER COUNTY COMMENTS

COMPASS SURVEYING LTD

2631 GINGER WOODS PARKWAY, STE. 100
AURORA, IL 60502
PHONE: (630) 820-9100 FAX: (630) 820-7030
JOB NO. 9764

KANE COUNTY DIVISION OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 520 (BLISS ROAD OVER BLACKBERRY CREEK)
SECTION #08-00058-02-BR
COUNTY KANE
JOB# R-91-007-09
PROJECT# #BHOS-0089(123)
STA 10+10.48 TO STA 28+55.04
DRAWN MRA CHECKED AE
SCALE: 1" = 30' SHEET NO. 4 OF 9

ROUTE: FAP 520 SECTION: 08-00058-02-BR COUNTY: KANE JOB# R-91-007-09 RECORDING: RECORDED ON / / AS DOCUMENT NO.

FILE NAME: W:\Projects\2013\130282 Bliss PH\1\cead\C:\1\1\Dgn\Shh\PLAT_03.dgn

WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nporris	DESIGNED -	REVISED -
PLOT SCALE = 1:1	DRAWN -	REVISED -
PLOT DATE = 10/24/2016	CHECKED -	REVISED -
	DATE = 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAT OF HIGHWAYS
FOR REFERENCE ONLY**

SCALE: SHEET NO. 3 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	86

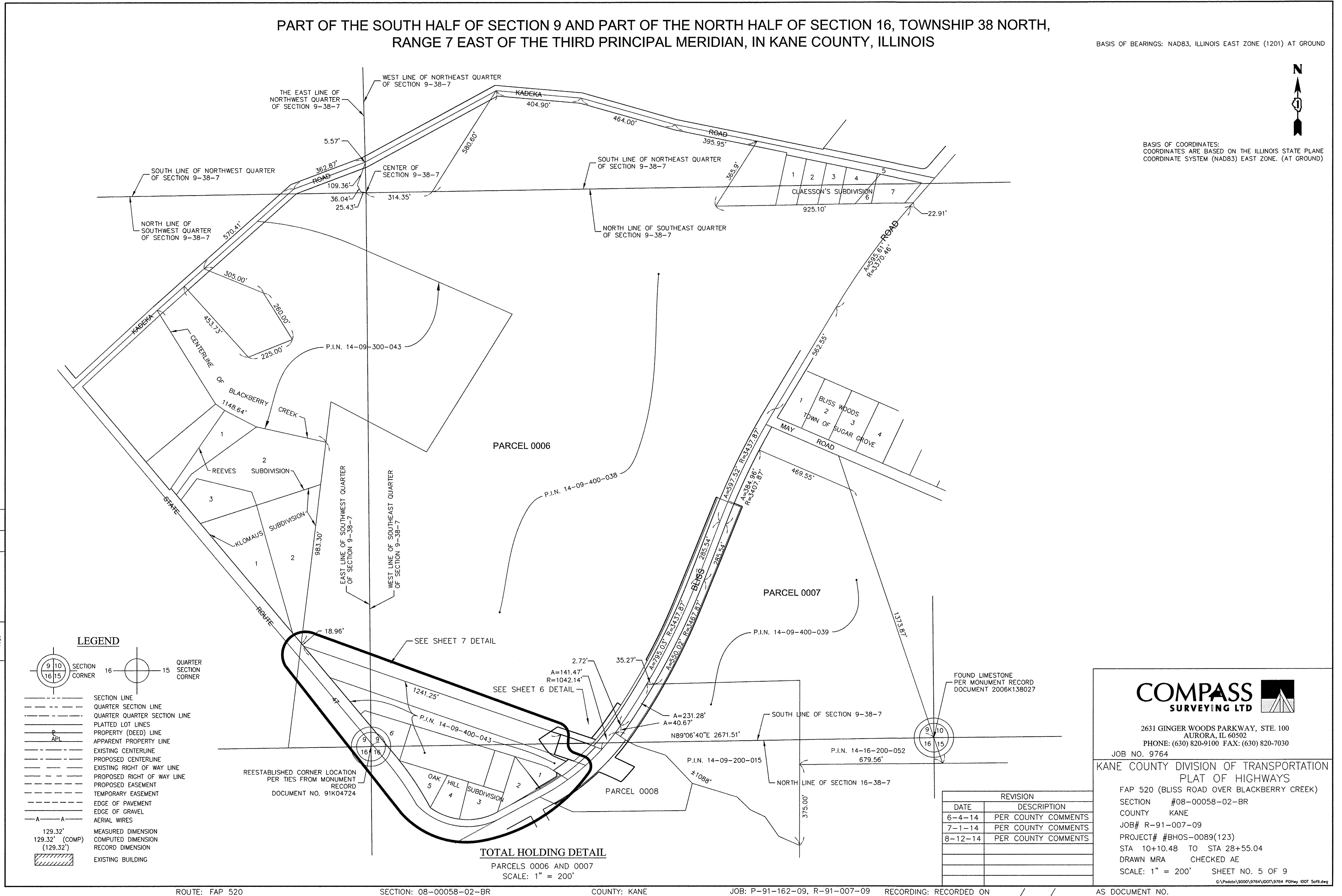
CONTRACT NO. 61D20
ILLINOIS FED. AID PROJECT

PART OF THE SOUTH HALF OF SECTION 9 AND PART OF THE NORTH HALF OF SECTION 16, TOWNSHIP 38 NORTH,
RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN KANE COUNTY, ILLINOIS

BASIS OF BEARINGS: NAD83, ILLINOIS EAST ZONE (1201) AT GROUND



BASIS OF COORDINATES:
COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE
COORDINATE SYSTEM (NAD83) EAST ZONE. (AT GROUND)



BY	DATE
MADE	
CHECKED	
INDEXED	
R.O.W. PLAT	
NOTEBOOK NO.	

LEGEND

SECTION CORNER 16 15
QUARTER SECTION CORNER

129.32'
129.32' (COMP)
(129.32')

EXISTING BUILDING

COMPASS SURVEYING LTD

2631 GINGER WOODS PARKWAY, STE. 100
AURORA, IL 60502
PHONE: (630) 820-9100 FAX: (630) 820-7030
JOB NO. 9764

KANE COUNTY DIVISION OF TRANSPORTATION
PLAT OF HIGHWAYS

FAP 520 (BLISS ROAD OVER BLACKBERRY CREEK)
SECTION #08-00058-02-BR
COUNTY KANE
JOB# R-91-007-09
PROJECT# #BHOS-0089(123)
STA 10+10.48 TO STA 28+55.04
DRAWN MRA CHECKED AE
SCALE: 1" = 200' SHEET NO. 5 OF 9

REVISION	
DATE	DESCRIPTION
6-4-14	PER COUNTY COMMENTS
7-1-14	PER COUNTY COMMENTS
8-12-14	PER COUNTY COMMENTS

FOUND LIMESTONE PER MONUMENT RECORD DOCUMENT 2006K138027

FILE NAME = W:\Projects\2013\130282_Bliss_Plat\Road\C:\v1\Drawn\Shut\PLAT_04.dgn

WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED -	REVISED -
PLOT SCALE = 1:1	DRAWN -	REVISED -
PLOT DATE = 10/24/2016	CHECKED -	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAT OF HIGHWAYS
FOR REFERENCE ONLY**

SCALE: SHEET NO. 4 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 87
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

ROUTE: FAP 520 SECTION: 08-00058-02-BR COUNTY: KANE JOB: P-91-162-09, R-91-007-09 RECORDING: RECORDED ON / / AS DOCUMENT NO.

PART OF THE SOUTH HALF OF SECTION 9 AND PART OF THE NORTH HALF OF SECTION 16, TOWNSHIP 38 NORTH,
RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN KANE COUNTY, ILLINOIS

BASIS OF BEARINGS: NAD83, ILLINOIS EAST ZONE (1201) AT GROUND

LEGEND

SECTION CORNER 16 15 QUARTER SECTION CORNER

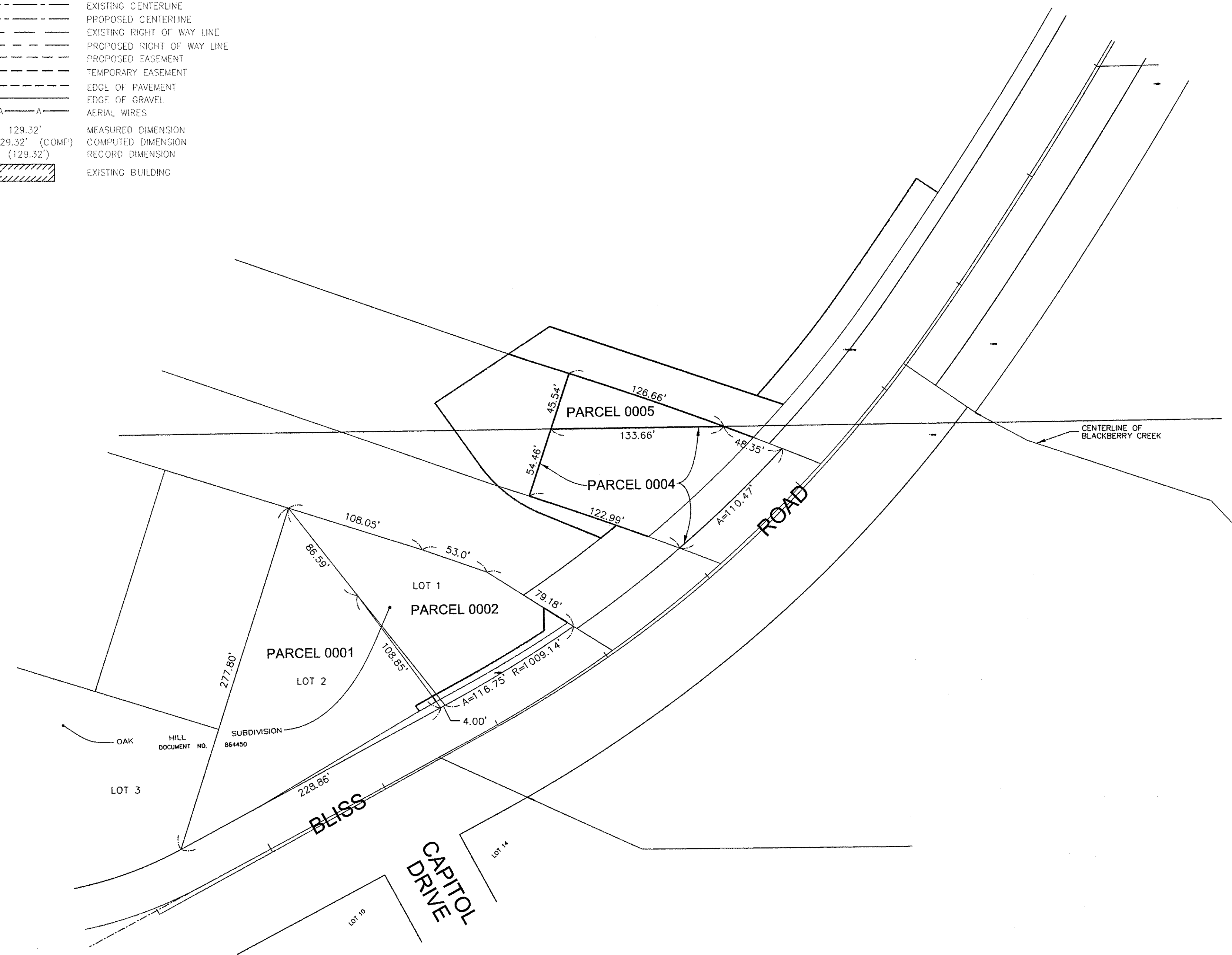
SECTION LINE
QUARTER SECTION LINE
QUARTER QUARTER SECTION LINE
PLATTED LOT LINES
PROPERTY (DEED) LINE
APPARENT PROPERTY LINE
EXISTING CENTERLINE
PROPOSED CENTERLINE
EXISTING RIGHT OF WAY LINE
PROPOSED RIGHT OF WAY LINE
PROPOSED EASEMENT
TEMPORARY EASEMENT
EDGE OF PAVEMENT
EDGE OF GRAVEL
A—A AERIAL WIRES

MEASURED DIMENSION
129.32' (COMP)
(129.32')

EXISTING BUILDING



BASIS OF COORDINATES:
COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE
COORDINATE SYSTEM (NAD83) EAST ZONE. (AT GROUND)



COORDINATE TABLE

POINT NO.	NORTH	EAST	STATION	OFFSET
1	1862099.93	954736.28	10+10.48	L 0.00
1	1862131.06	954718.93	10+10.48	L 35.64
2	1862203.81	954840.53	11+52.11	L 40.00
	1862207.96	954837.71	11+51.67	L 45.00
	1862211.13	954853.66	11+67.14	L 40.00
	1862215.18	954850.67	11+66.50	L 45.00
	1862206.44	954857.11	11+67.87	L 34.22
	1862208.35	954860.63	11+71.88	L 34.18
	1862137.36	954924.25	11+92.89	R 58.79
	1862188.88	954895.91	11+93.22	L 0.00
3	1862223.62	954876.44	11+93.22	L 40.00
	1862228.19	954874.00	11+93.22	L 45.00
	1862134.83	954929.87	11+96.37	R 63.75
	1862266.58	954937.04	12+70.53	L 45.00
	1862270.08	954959.70	12+92.10	L 35.17
4	1862272.87	954955.25	12+89.95	L 40.00
	1862284.46	954936.77	12+80.80	L 60.00
	1862294.36	954920.99	12+72.67	L 77.02
	1862442.79	954852.35	13+05.75	L 238.18
	1862394.95	954886.75	13+05.93	L 179.26
	1862370.79	954925.49	13+18.59	L 146.43
	1862338.51	954980.87	13+53.31	L 77.55
	1862357.24	954934.70	13+25.31	L 120.52
5	1862339.45	955017.70	13+84.52	L 55.00
	1862348.24	954992.86	13+70.06	L 77.63
	1862330.68	955041.75	13+97.70	L 32.73
	1862422.65	954942.12	13+79.43	L 167.32
	1862481.19	954909.23	13+95.34	L 233.25
	1862318.72	955073.51	14+13.96	L 2.77
	1862466.02	954956.03	14+26.95	L 190.82
	1862288.08	955136.22	14+38.77	R 62.18
	1862502.59	954940.92	14+44.55	L 227.87
	1862264.28	955192.00	14+60.57	R 117.99
	1862240.06	955242.23	14+76.72	R 170.60
	1862424.72	955075.76	14+92.41	L 77.49
6	1862416.17	955098.63	15+02.59	L 55.00
	1862411.47	955110.93	15+07.80	L 42.80
	1862407.60	955120.97	15+11.92	L 32.80
	1862395.81	955150.83	15+23.50	L 2.77

COORDINATE TABLE (CONT.)

POINT NO.	NORTH	EAST	STATION	OFFSET
	1862448.71	955101.23	15+30.19	L 75.00
	1862356.38	955213.15	15+35.02	R 70.00
	1862441.80	955121.79	15+39.15	L 55.00
	1862311.39	955306.28	15+58.65	R 170.00
	1862473.77	955214.67	16+24.56	L 2.31
	1862456.79	955239.42	16+25.43	R 27.69
	1862439.81	955264.18	16+26.25	R 57.70
13	1862435.68	955270.20	16+26.44	R 65.00
	1862434.92	955271.30	16+26.48	R 66.34
	1862433.18	955274.57	16+26.96	R 70.00
	1862448.98	955279.73	16+41.81	R 65.00
	1862446.10	955283.82	16+41.81	R 70.00
7	1862518.10	955181.63	16+41.81	L 55.00
	1862529.62	955165.29	16+41.81	L 75.00
	1862509.15	955239.77	16+68.01	L 2.21
	1862605.00	955241.23	17+50.00	L 55.00
	1862616.92	955224.48	17+50.00	L 75.00
	1862704.44	955363.61	18+99.49	L 2.53
	1862705.34	955398.87	19+17.86	R 27.54
12	1862706.45	955442.62	19+40.14	L 65.00
	1862706.59	955448.45	19+43.07	R 70.00
	1862816.93	955366.55	20+00.00	L 55.00
	1862820.25	955360.38	20+00.00	L 62.00
11	1863081.36	955614.07	23+26.20	R 65.00
	1863059.48	955618.71	23+26.20	R 70.00
8	1863106.50	955502.89	23+26.20	L 55.00
	1863109.14	955496.40	23+26.20	L 62.00
	1863211.62	955608.28	24+63.25	R 3.10
	1863200.84	955636.28	24+63.79	R 33.10
	1863478.10	955710.87	27+48.74	L 2.09
	1863467.32	955738.86	27+49.29	R 27.90
10	1863546.72	955811.14	28+50.04	R 65.00
9	1863591.86	955699.96	28+50.04	L 55.00
	1863594.50	955693.47	28+50.04	L 62.00
	1863560.80	955776.45	28+50.04	R 27.56
	1863572.09	955748.65	28+50.04	L 2.44
	1863549.47	955817.65	28+55.04	R 70.00
	1863565.41	955778.39	28+55.04	R 27.62
	1863575.80	955752.80	28+55.04	L 0.00

TOTAL HOLDING DETAIL
PARCELS 0001, 0002, 0004, AND 0005
SCALE: 1" = 50'

BY	DATE
MADE	
CHECKED	
DRAWN	

R.O.W. PLAT NO. _____
NOTEBOOK NO. _____

REVISION

DATE	DESCRIPTION
6-4-14	PER COUNTY COMMENTS
7-1-14	PER COUNTY COMMENTS
8-12-14	PER COUNTY COMMENTS

COMPASS SURVEYING LTD

2631 GINGER WOODS PARKWAY, STE. 100
AURORA, IL 60502
PHONE: (630) 820-9100 FAX: (630) 820-7030
JOB NO. 9764

KANE COUNTY DIVISION OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 520 (BLISS ROAD OVER BLACKBERRY CREEK)
SECTION #08-00058-02-BR
COUNTY KANE
JOB# R-91-007-09
PROJECT# #BHOS-0089(123)
STA 10+10.48 TO STA 28+55.04
DRAWN MRA CHECKED AE
SCALE: 1" = 50' SHEET NO. 6 OF 9

FILE NAME = W:\Projects\2013\130282 BLISS PH\11\cead\Civil\Drawn\Shk\PLAT_05.dgn

WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED -	REVISED -
PLOT SCALE = 1:1	DRAWN -	REVISED -
PLOT DATE = 10/24/2016	CHECKED -	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAT OF HIGHWAYS
FOR REFERENCE ONLY**

SCALE: SHEET NO. 5 OF 8 SHEETS STA. TO STA.

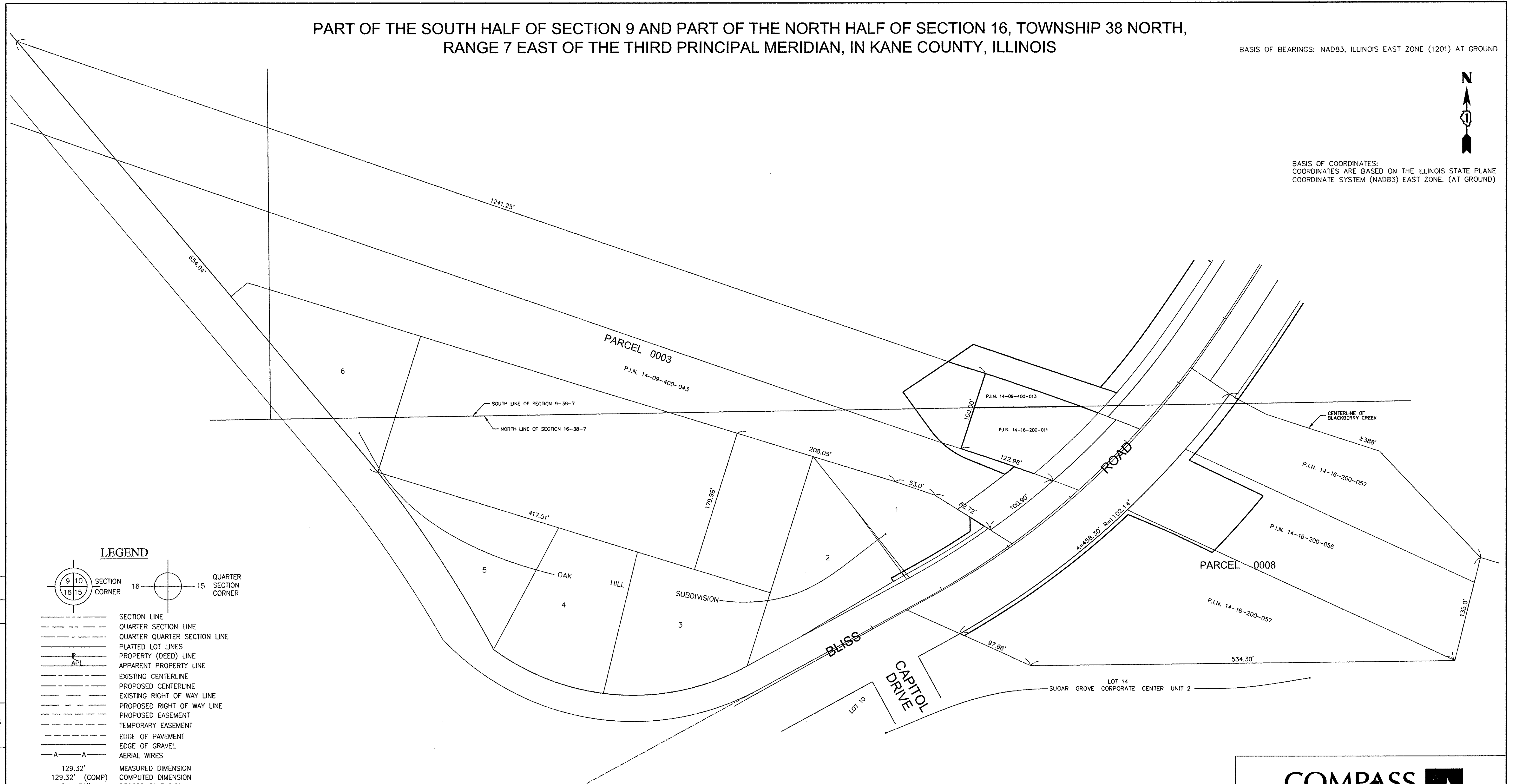
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	88
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

PART OF THE SOUTH HALF OF SECTION 9 AND PART OF THE NORTH HALF OF SECTION 16, TOWNSHIP 38 NORTH,
RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN KANE COUNTY, ILLINOIS

BASIS OF BEARINGS: NAD83, ILLINOIS EAST ZONE (1201) AT GROUND



BASIS OF COORDINATES:
COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE
COORDINATE SYSTEM (NAD83) EAST ZONE. (AT GROUND)



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- TEMPORARY EASEMENT
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- AERIAL WIRES
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DIMENSION
- EXISTING BUILDING

BY	DATE
MADE	
CHECKED	
FIELD	
R.O.W. PLAT	
NOTEBOOK NO.	

TOTAL HOLDING DETAIL

PARCELS 0003 AND 0008
SCALE: 1" = 60'

REVISION	
DATE	DESCRIPTION
6-4-14	PER COUNTY COMMENTS
8-1-14	PER COUNTY COMMENTS
8-12-14	PER COUNTY COMMENTS



2631 GINGER WOODS PARKWAY, STE. 100
AURORA, IL 60502
PHONE: (630) 820-9100 FAX: (630) 820-7030
JOB NO. 9764

KANE COUNTY DIVISION OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 520 (BLISS ROAD OVER BLACKBERRY CREEK)
SECTION #08-00058-02-BR
COUNTY KANE
JOB# R-91-007-09
PROJECT# #BHOS-0089(123)
STA 10+10.48 TO STA 28+55.04
DRAWN MRA CHECKED AE
SCALE: 1" = 60' SHEET NO. 7 OF 9

ROUTE: FAP 520 SECTION: 08-00058-02-BR COUNTY: KANE JOB: P-91-162-09, R-91-007-09 RECORDING: RECORDED ON / / AS DOCUMENT NO.

WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED -	REVISED -
PLOT SCALE = 1:1	DRAWN -	REVISED -
PLOT DATE = 10/24/2016	CHECKED -	REVISED -
	DATE - 8/8/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS
FOR REFERENCE ONLY

SCALE: SHEET NO. 6 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	89
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

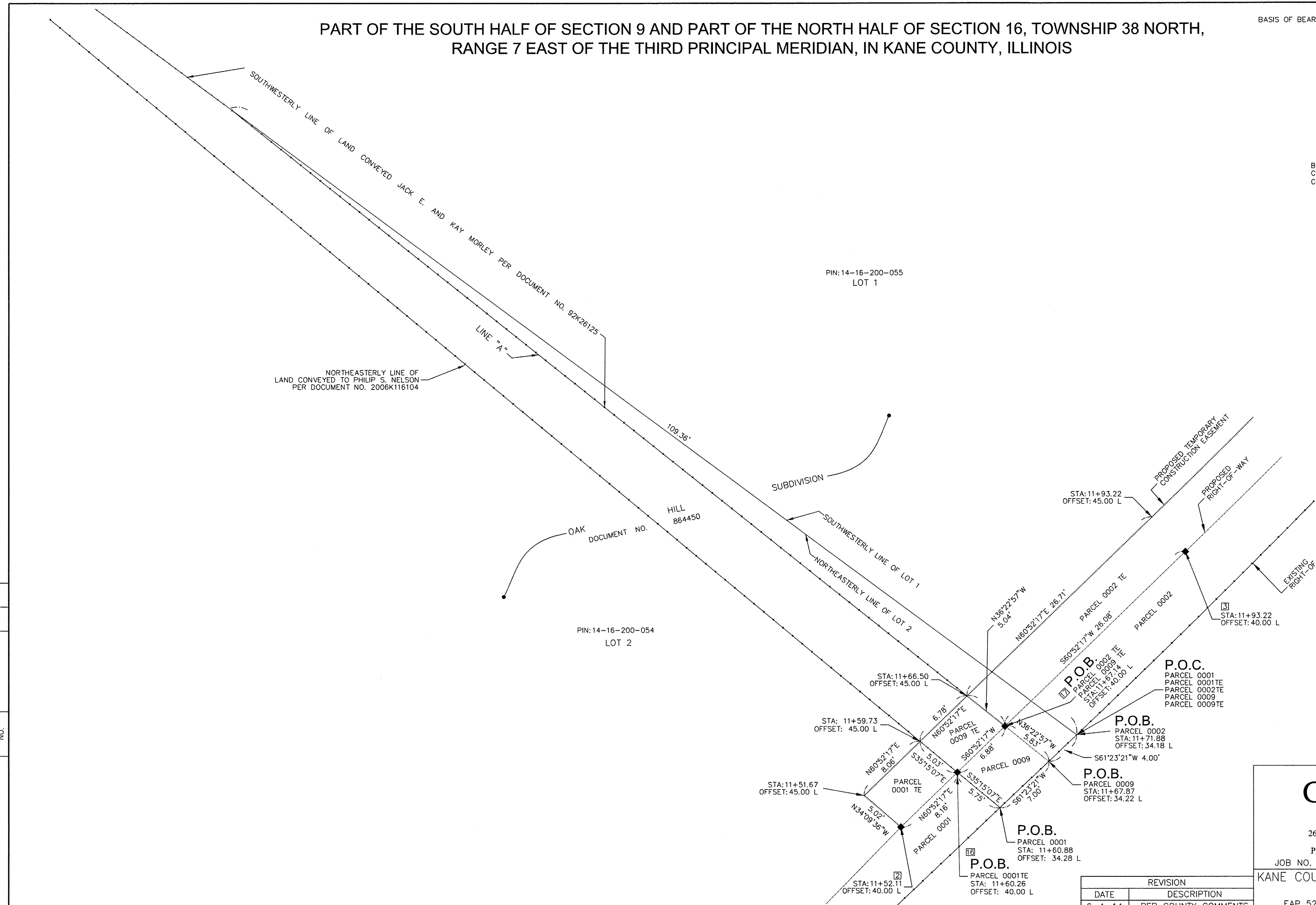
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PART OF THE SOUTH HALF OF SECTION 9 AND PART OF THE NORTH HALF OF SECTION 16, TOWNSHIP 38 NORTH,
RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN KANE COUNTY, ILLINOIS

BASIS OF BEARINGS: NAD83, ILLINOIS EAST ZONE (1201) AT GROUND



BASIS OF COORDINATES:
COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE
COORDINATE SYSTEM (NAD83) EAST ZONE. (AT GROUND)



BY	DATE
MADE	
CHECKED	
LIBERED	
R.O.W. PLAT	
NOTEBOOK NO.	

PARCEL NO.	OWNER	TOTAL HOLDING	AREA TAKEN	AREA IN EXISTING R.O.W.	REMAINDER	EASEMENTS		PURPOSE OF EASEMENT	PERMANENT TAX NUMBER	PROPERTY ACQUIRED BY
						TEMP	PERM			
0009 0009 TE	NANCY L. GRIFFING	0.019 AC.	0.001 AC. (40 S.F.)		0.018 AC.	0.001 AC. (34 S.F.)		CONSTRUCTION		

REVISION	
DATE	DESCRIPTION
6-4-14	PER COUNTY COMMENTS
7-1-14	PER COUNTY COMMENTS
8-12-14	PER COUNTY COMMENTS

COMPASS SURVEYING LTD

2631 GINGER WOODS PARKWAY, STE. 100
AURORA, IL 60502
PHONE: (630) 820-9100 FAX: (630) 820-7030
JOB NO. 9764

KANE COUNTY DIVISION OF TRANSPORTATION
PLAT OF HIGHWAYS
FAP 520 (BLISS ROAD OVER BLACKBERRY CREEK)
SECTION #08-00058-02-BR
COUNTY KANE
JOB# R-91-007-09
PROJECT# #BHOS-0089(123)
STA 10+10.48 TO STA 28+55.04
DRAWN MRA CHECKED AE
SCALE: 1" = 5' SHEET NO. 8 OF 9

ROUTE: FAP 520 SECTION: 08-00058-02-BR COUNTY: KANE JOB: P-91-162-09, R-91-007-09 RECORDING: RECORDED ON / / AS DOCUMENT NO.

FILE NAME = W:\Projects\2013\130282_Bllas_Pht\cead\C:\v1\Drawn\Shk\PLAT_07.dgn

WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED -	REVISED -
PLOT SCALE = 1:1	DRAWN -	REVISED -
PLOT DATE = 10/24/2016	CHECKED -	REVISED -
	DATE = 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

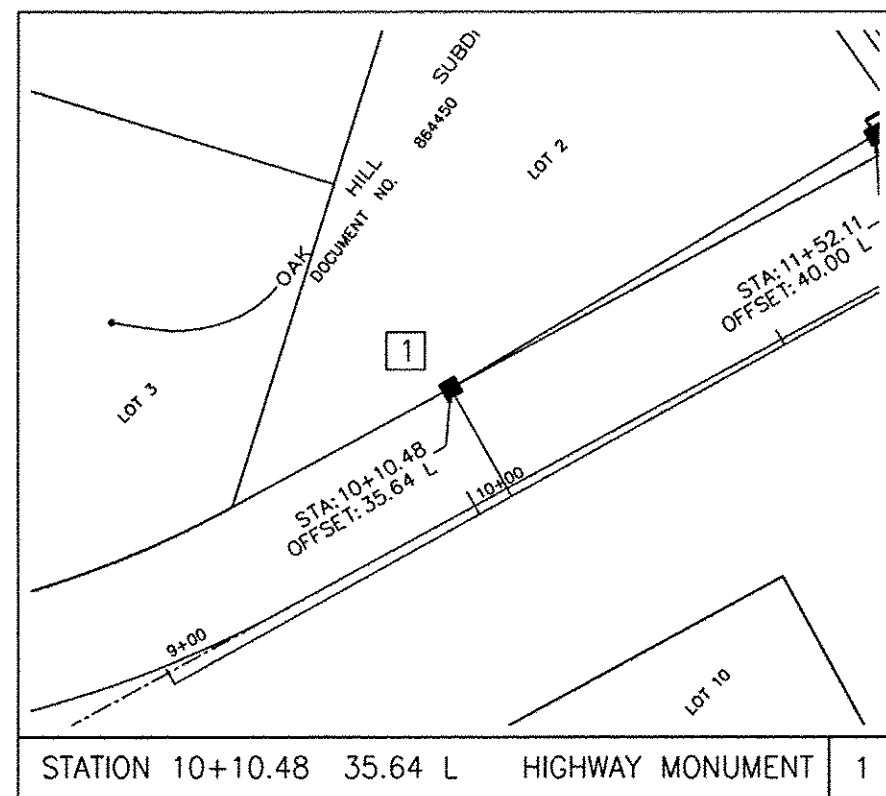
**PLAT OF HIGHWAYS
FOR REFERENCE ONLY**

SCALE: SHEET NO. 7 OF 8 SHEETS STA. TO STA.

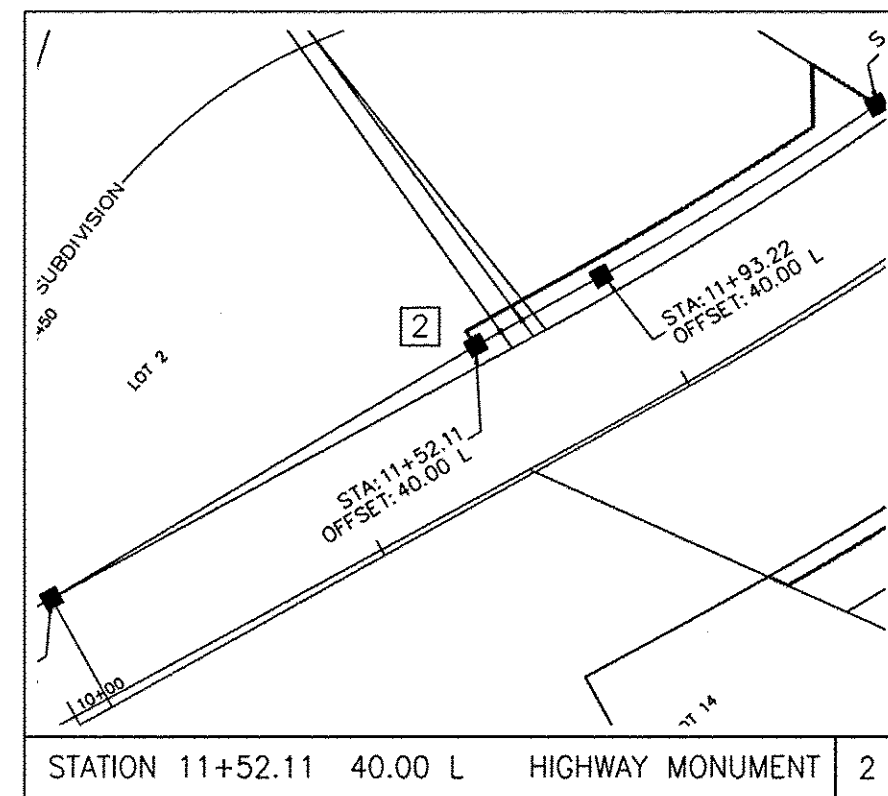
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	90
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

PART OF THE SOUTH HALF OF SECTION 9 AND PART OF THE NORTH HALF OF SECTION 16, TOWNSHIP 38 NORTH,
RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN KANE COUNTY, ILLINOIS

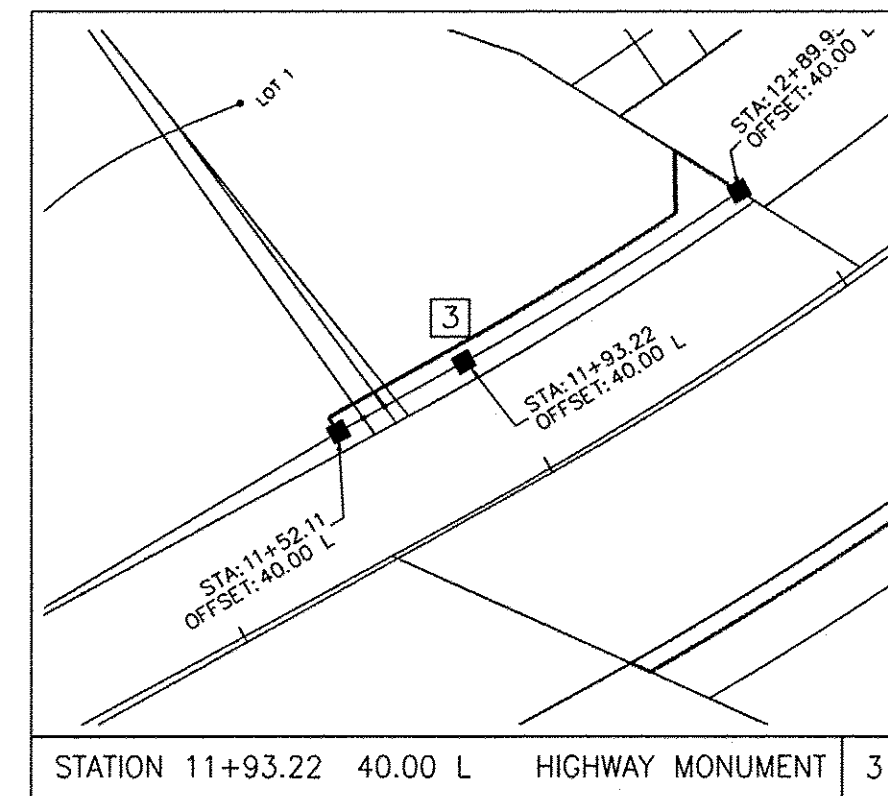
BASIS OF BEARINGS: NAD83, ILLINOIS EAST ZONE (1201) AT GROUND



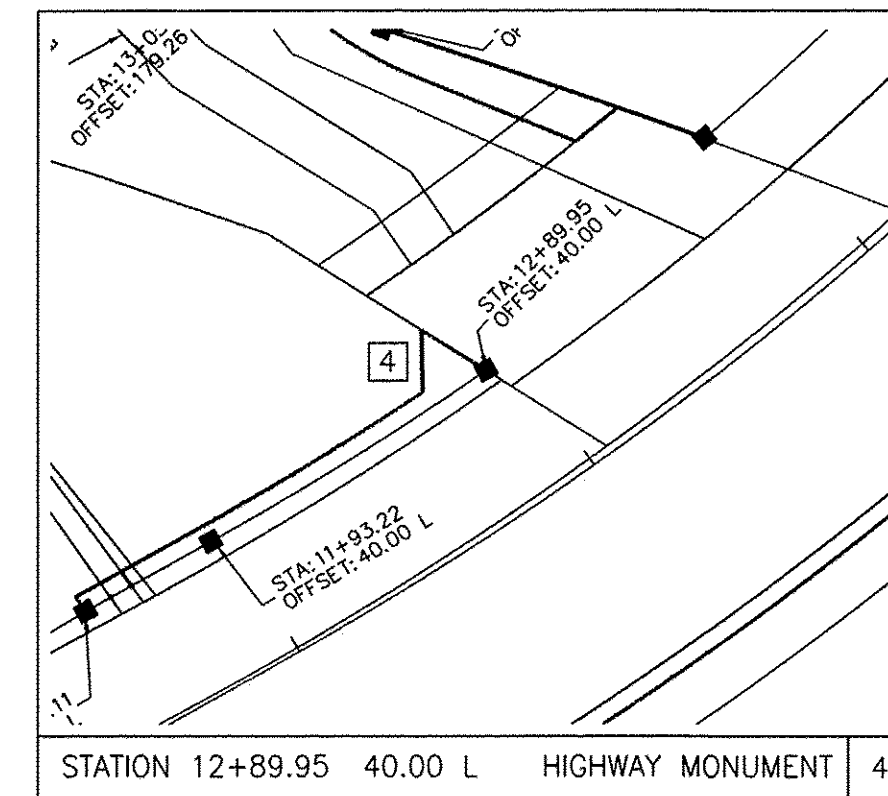
STATION 10+10.48 35.64 L HIGHWAY MONUMENT 1



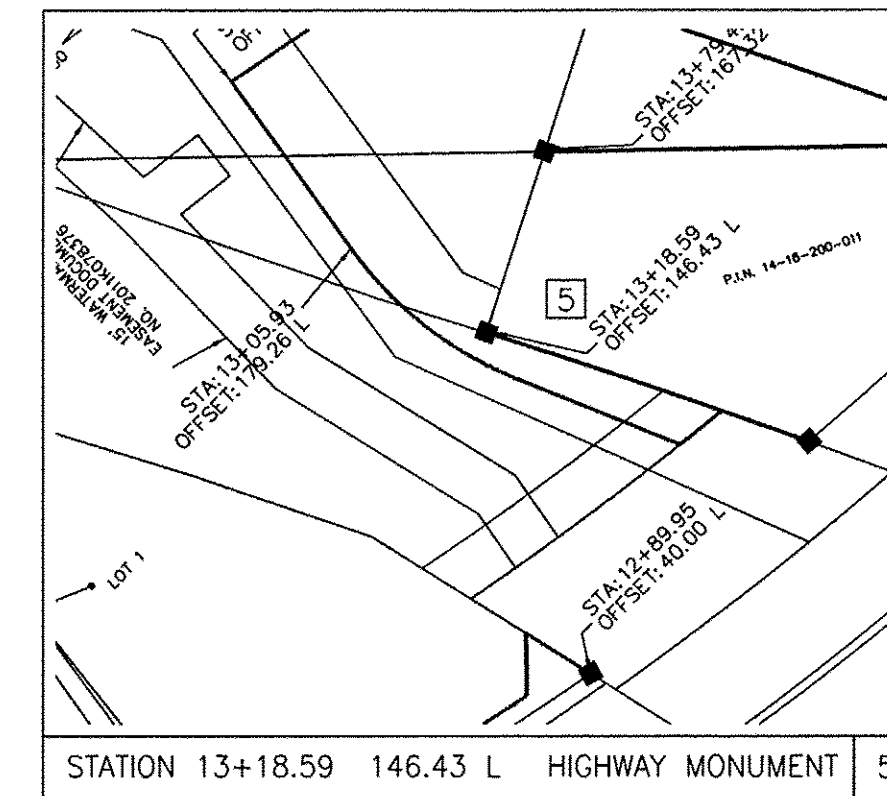
STATION 11+52.11 40.00 L HIGHWAY MONUMENT 2



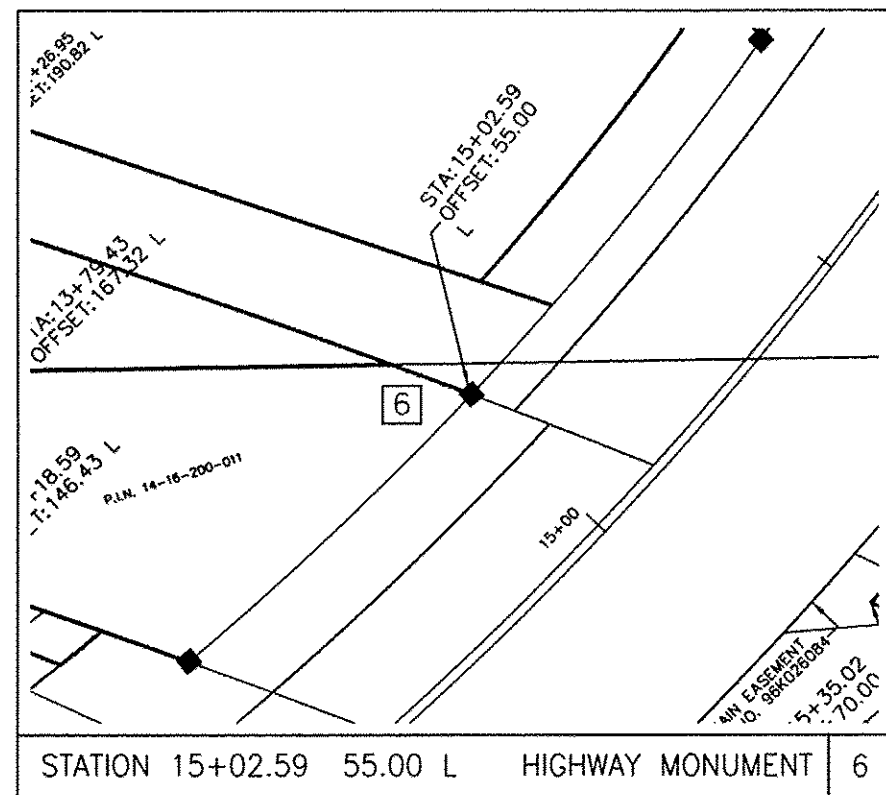
STATION 11+93.22 40.00 L HIGHWAY MONUMENT 3



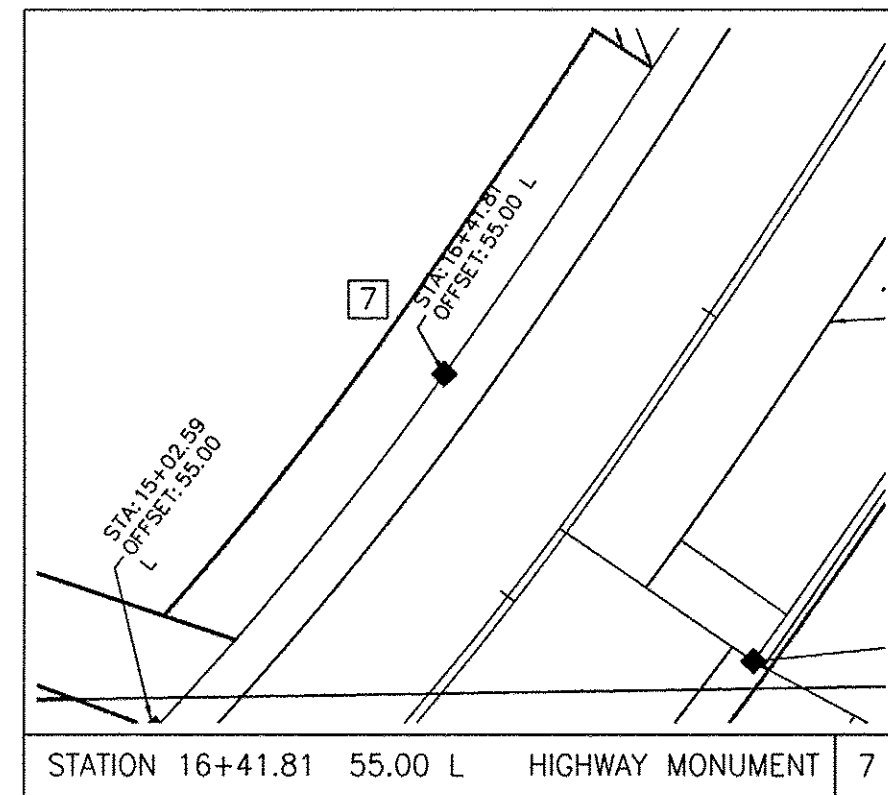
STATION 12+89.95 40.00 L HIGHWAY MONUMENT 4



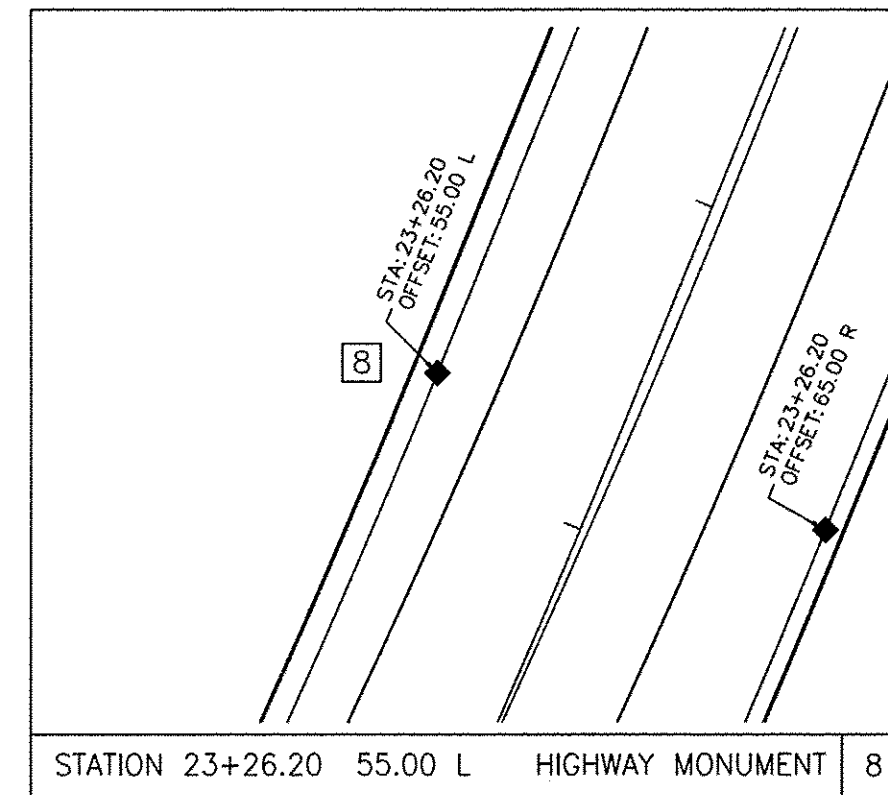
STATION 13+18.59 146.43 L HIGHWAY MONUMENT 5



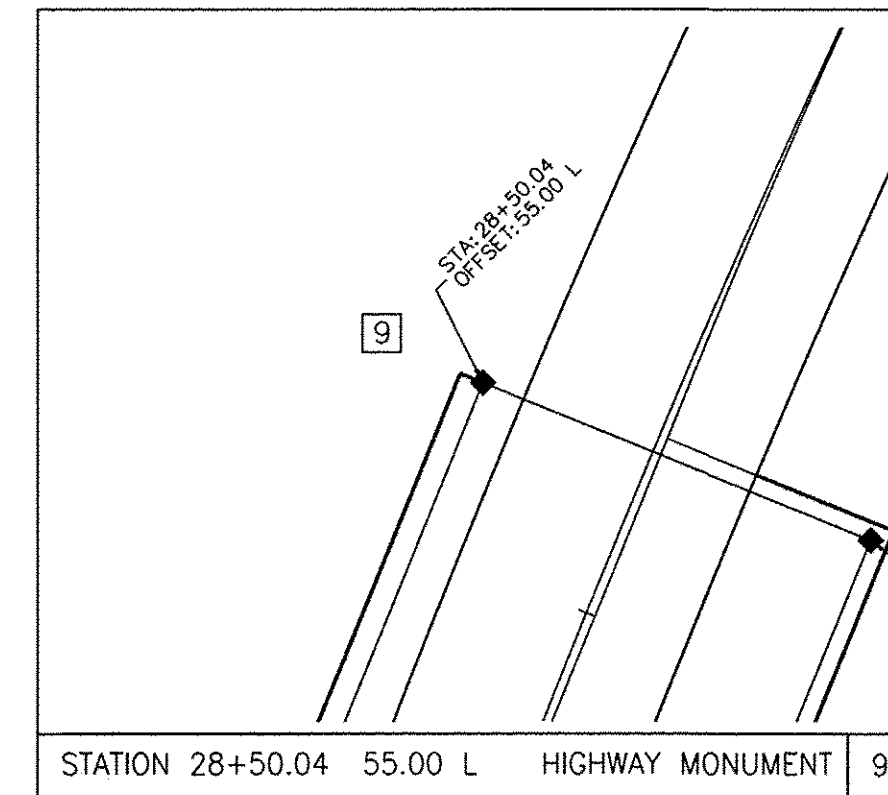
STATION 15+02.59 55.00 L HIGHWAY MONUMENT 6



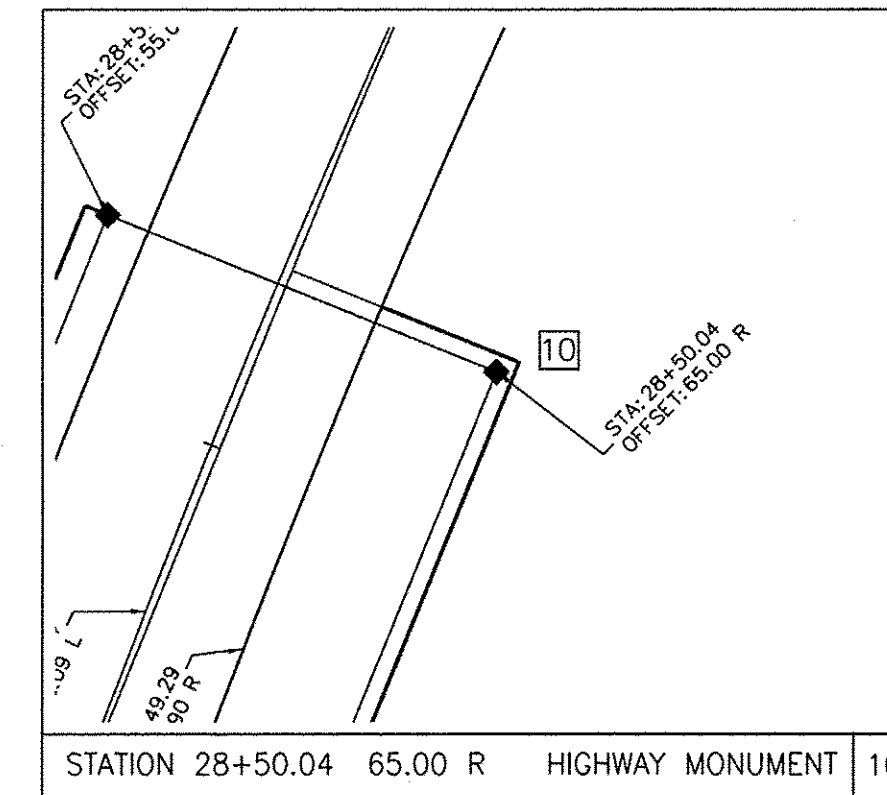
STATION 16+41.81 55.00 L HIGHWAY MONUMENT 7



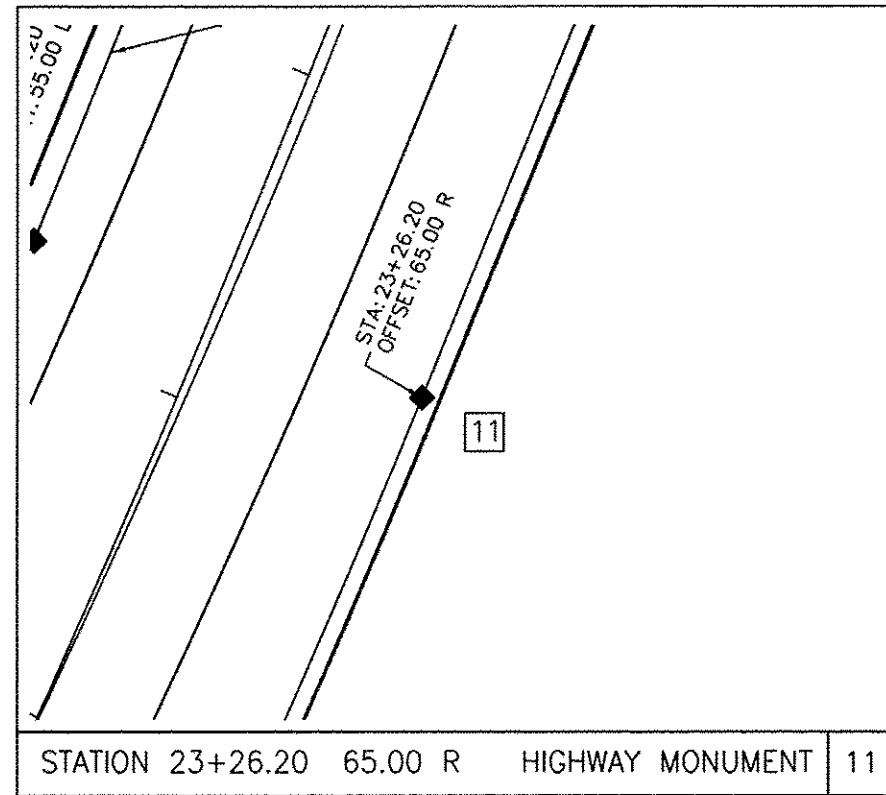
STATION 23+26.20 55.00 L HIGHWAY MONUMENT 8



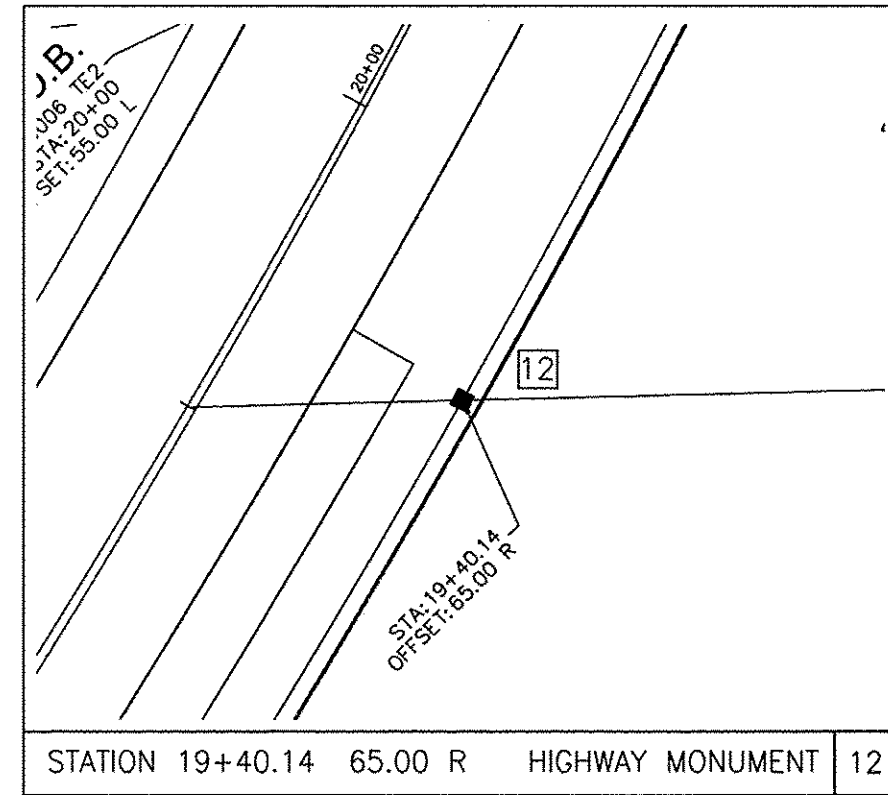
STATION 28+50.04 55.00 L HIGHWAY MONUMENT 9



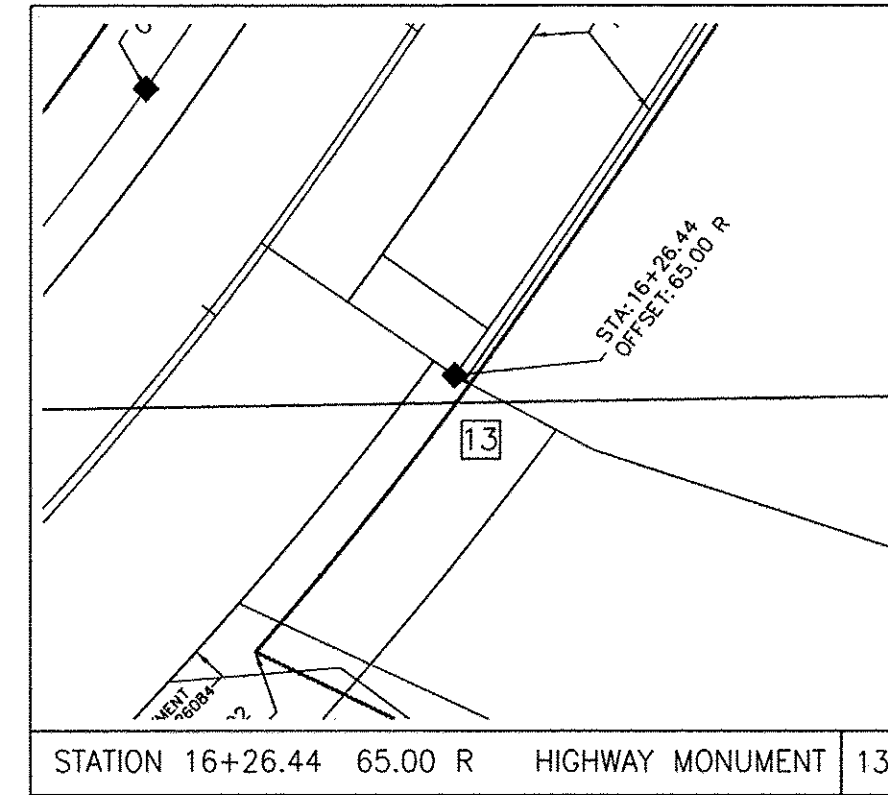
STATION 28+50.04 65.00 R HIGHWAY MONUMENT 10



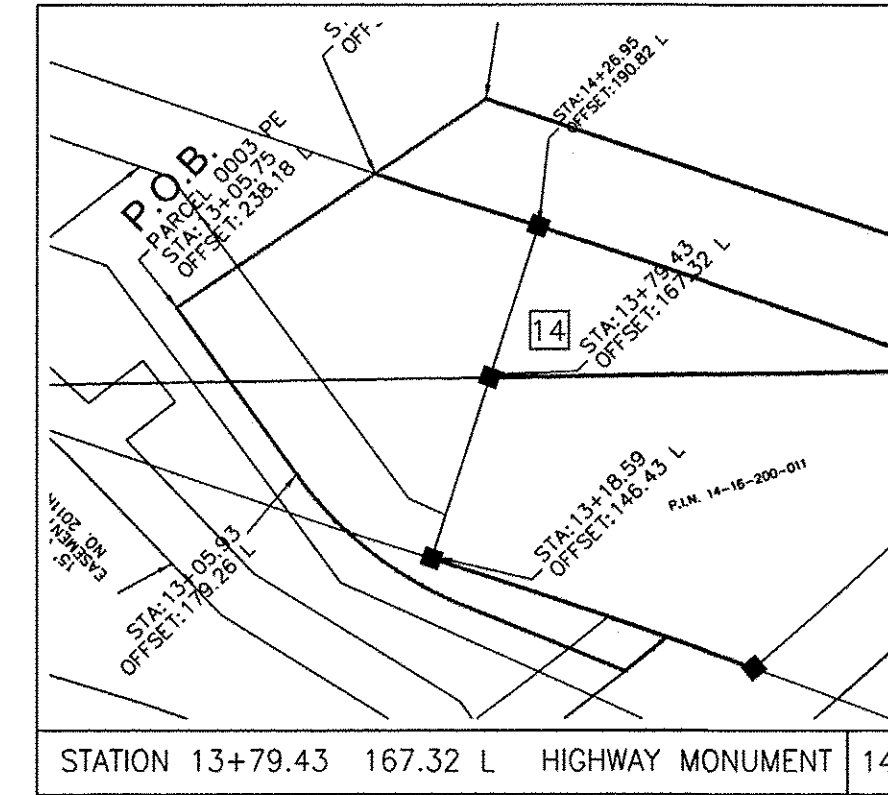
STATION 23+26.20 65.00 R HIGHWAY MONUMENT 11



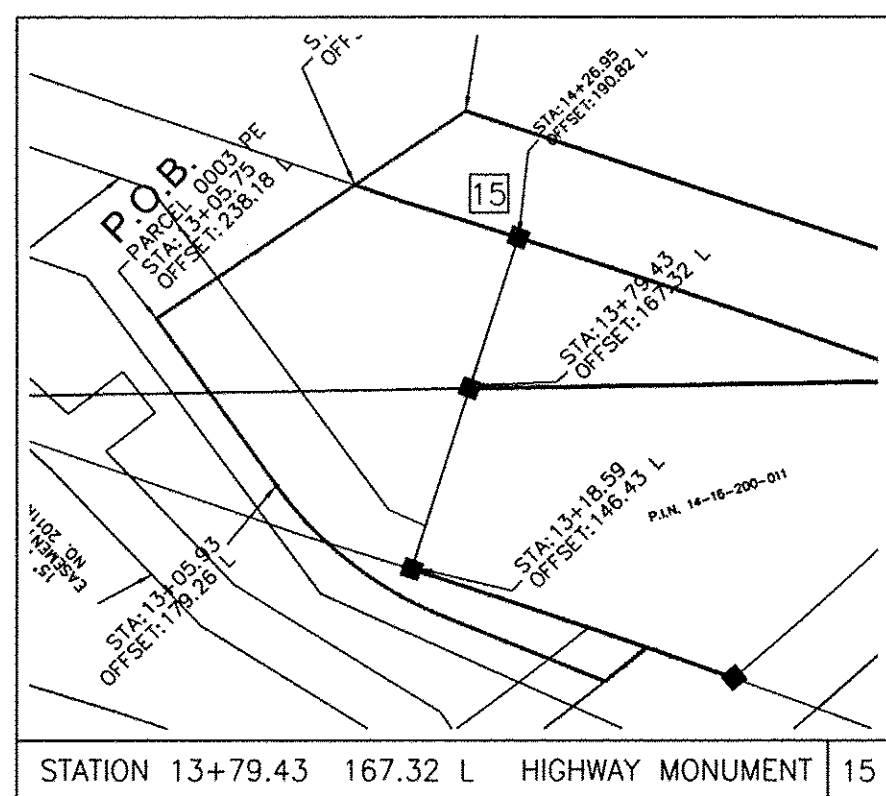
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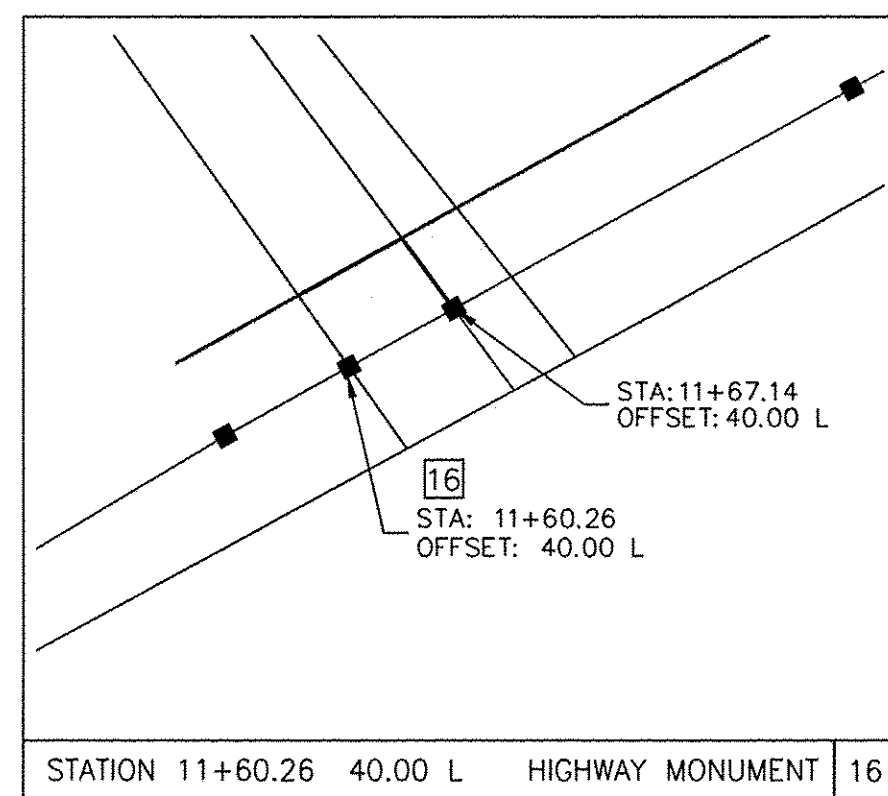
STATION 16+26.44 65.00 R HIGHWAY MONUMENT 13



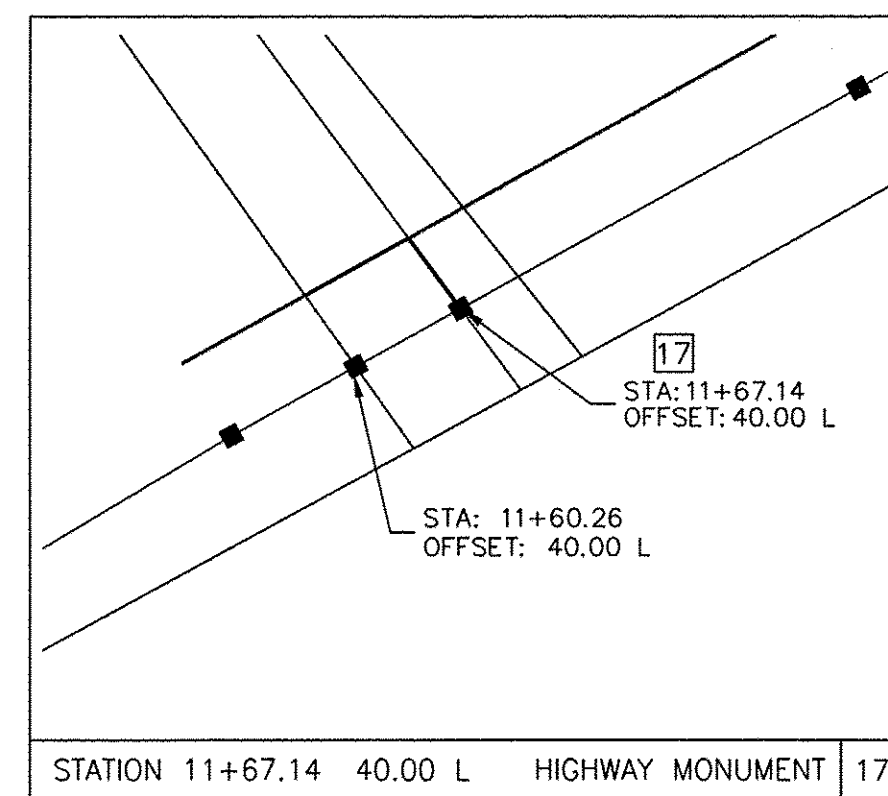
STATION 13+79.43 167.32 L HIGHWAY MONUMENT 14



STATION 13+79.43 167.32 L HIGHWAY MONUMENT 15



STATION 11+60.26 40.00 L HIGHWAY MONUMENT 16



STATION 11+67.14 40.00 L HIGHWAY MONUMENT 17

BY	DATE
MADE	
CHECKED	
DATE	

R.O.W.	PLAT	NOTEBOOK NO.

REVISION	
DATE	DESCRIPTION
6-4-14	PER COUNTY COMMENTS
8-12-14	PER COUNTY COMMENTS

COMPASS SURVEYING LTD
 2631 GINGER WOODS PARKWAY, STE. 100
 AURORA, IL 60502
 PHONE: (630) 820-9100 FAX: (630) 820-7030
 JOB NO. 9764

KANE COUNTY DIVISION OF TRANSPORTATION
 PLAT OF HIGHWAYS
 6FAP 520 (BLISS ROAD OVER BLACKBERRY CREEK)
 SECTION #08-00058-02-BR
 COUNTY KANE
 JOB# R-91-007-09
 PROJECT# #BHOS-0089(123)
 STA 10+10.48 TO STA 28+55.04
 DRAWN MRA CHECKED AE
 SCALE: 1" = 50' SHEET NO. 9 OF 9

ROUTE: FAP 520 SECTION: 08-00058-02-BR COUNTY: KANE JOB: P-91-162-09, R-91-007-09 RECORDING: RECORDED ON / / AS DOCUMENT NO.

FILE NAME = M:\Projects\2013\130282 Bitas Phil\veed\G:\1\1\Drawings\Sh\PLAT_08.dgn

WBK engineering
WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nparris	DESIGNED -	REVISED -
PLOT SCALE = 1:1	DRAWN -	REVISED -
PLOT DATE = 10/24/2016	CHECKED -	REVISED -
	DATE = 8/8/16	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS
 FOR REFERENCE ONLY

SCALE:	SHEET NO. 8 OF 8 SHEETS	STA. TO STA.
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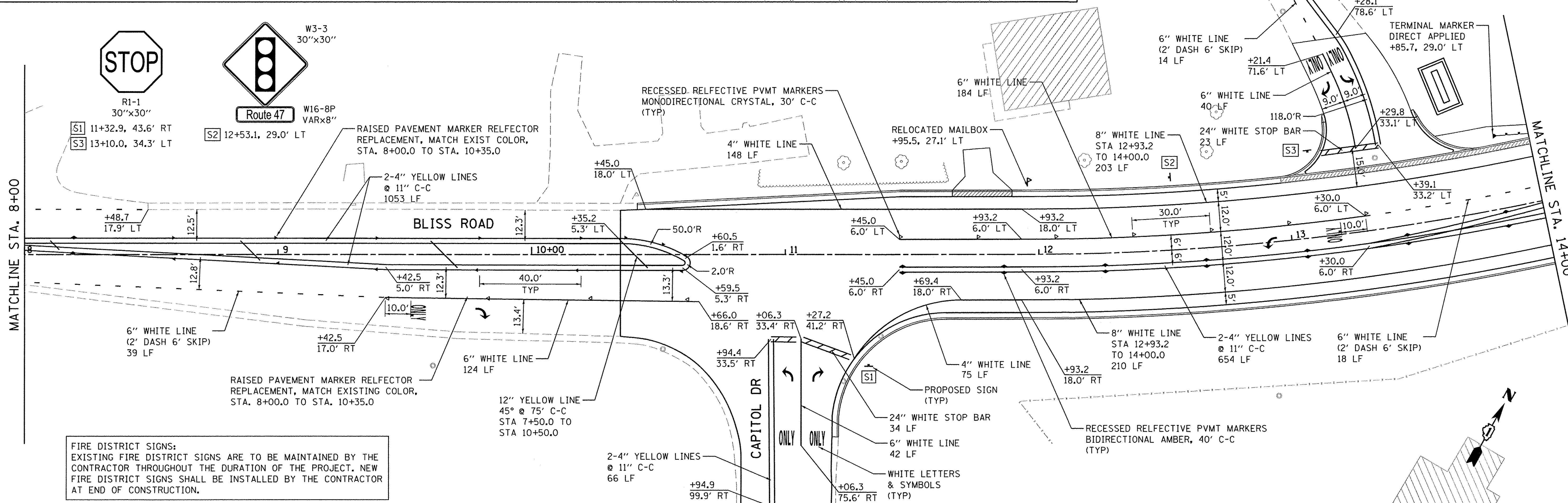
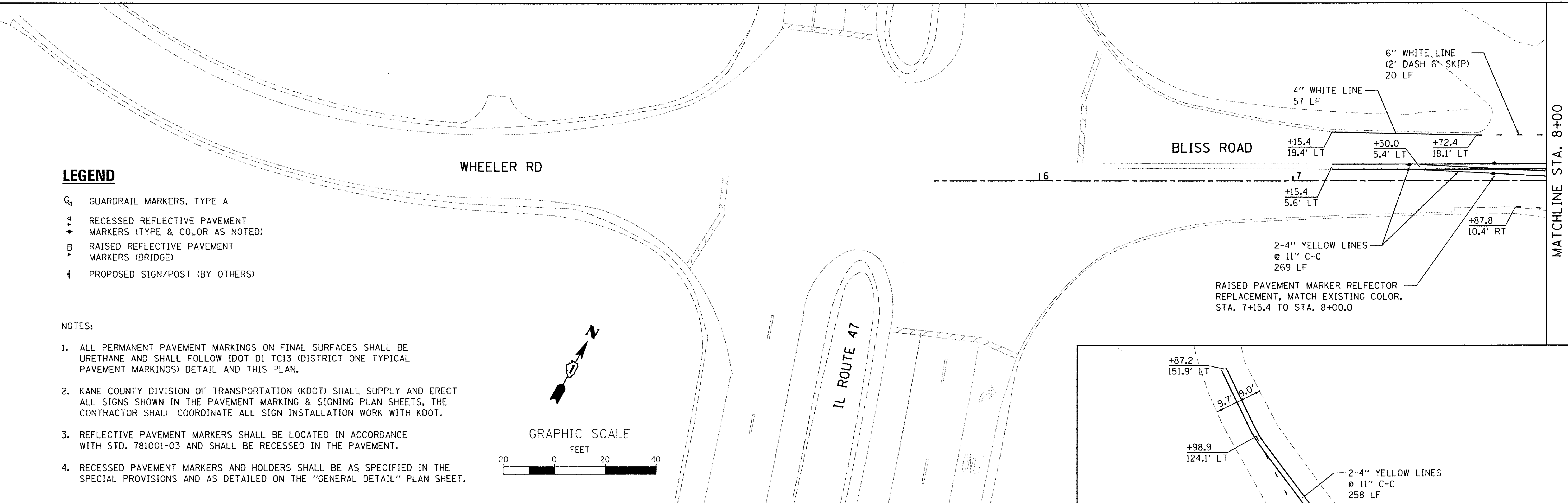
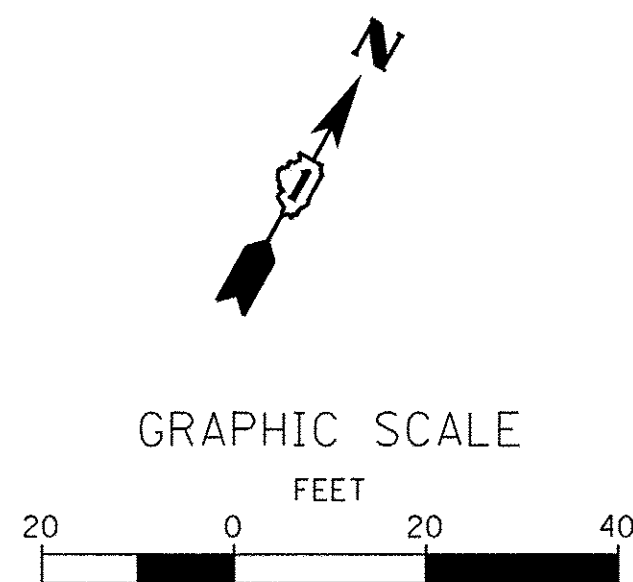
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	91
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

LEGEND

- G₄ GUARDRAIL MARKERS, TYPE A
- ▼ RECESSED REFLECTIVE PAVEMENT MARKERS (TYPE & COLOR AS NOTED)
- B RAISED REFLECTIVE PAVEMENT MARKERS (BRIDGE)
- † PROPOSED SIGN/POST (BY OTHERS)

NOTES:

1. ALL PERMANENT PAVEMENT MARKINGS ON FINAL SURFACES SHALL BE URETHANE AND SHALL FOLLOW IDOT D1 TC13 (DISTRICT ONE TYPICAL PAVEMENT MARKINGS) DETAIL AND THIS PLAN.
2. KANE COUNTY DIVISION OF TRANSPORTATION (KDOT) SHALL SUPPLY AND ERECT ALL SIGNS SHOWN IN THE PAVEMENT MARKING & SIGNING PLAN SHEETS, THE CONTRACTOR SHALL COORDINATE ALL SIGN INSTALLATION WORK WITH KDOT.
3. REFLECTIVE PAVEMENT MARKERS SHALL BE LOCATED IN ACCORDANCE WITH STD. 781001-03 AND SHALL BE RECESSED IN THE PAVEMENT.
4. RECESSED PAVEMENT MARKERS AND HOLDERS SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS AND AS DETAILED ON THE "GENERAL DETAIL" PLAN SHEET.



FIRE DISTRICT SIGNS:
EXISTING FIRE DISTRICT SIGNS ARE TO BE MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE PROJECT. NEW FIRE DISTRICT SIGNS SHALL BE INSTALLED BY THE CONTRACTOR AT END OF CONSTRUCTION.

FILE NAME = W:\P\Projects\2013\130282 - Bliss PH\Road\C:\1\Drawn\Shn\PMK.dwg



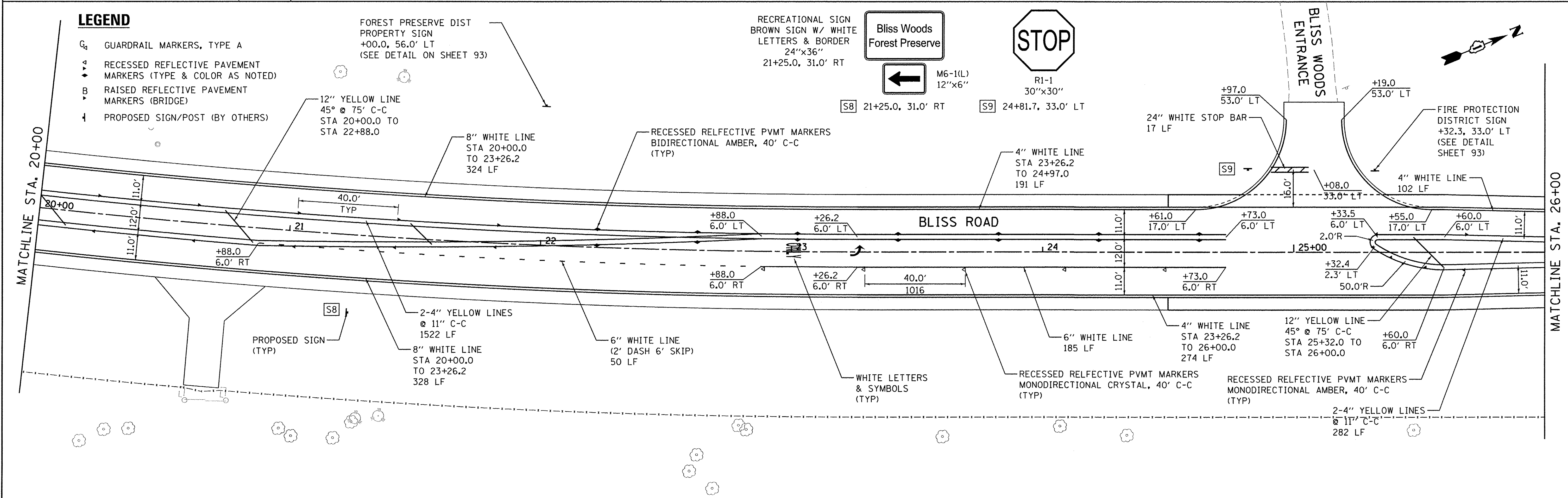
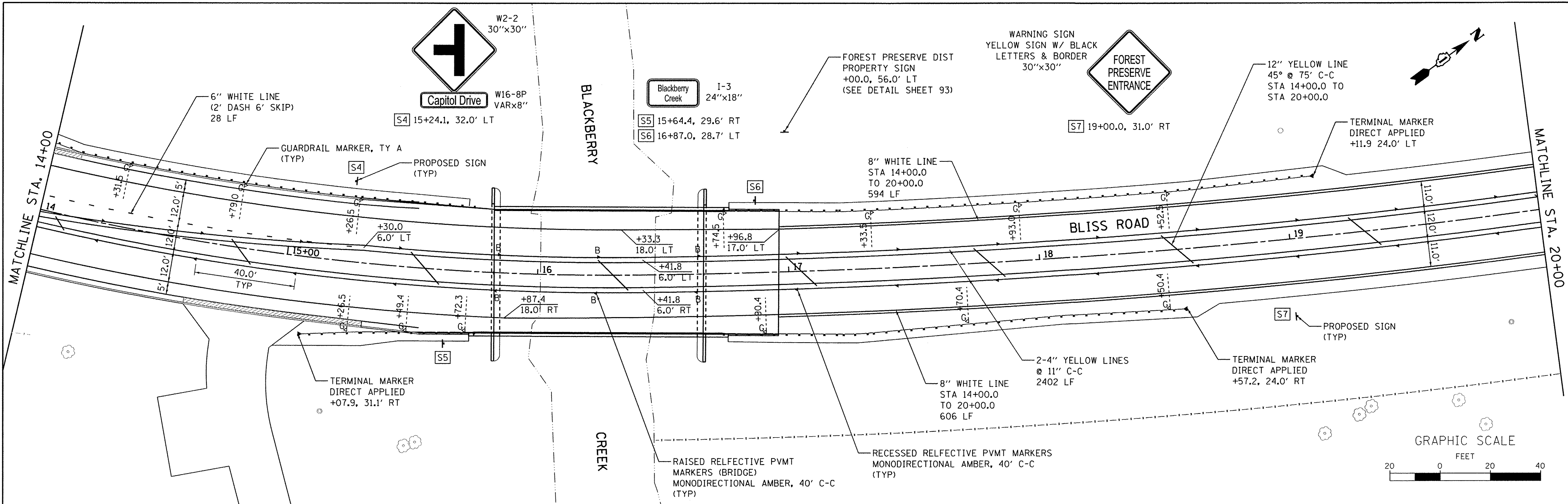
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING & SIGNING PLAN	
SCALE: 1"=20'	SHEET NO. 1 OF 3 SHEETS
STA. 7+15.40 TO STA. 14+00.00	

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 92
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				



LEGEND

- G₄ GUARDRAIL MARKERS, TYPE A
- ▼ RECESSED REFLECTIVE PAVEMENT MARKERS (TYPE & COLOR AS NOTED)
- B RAISED REFLECTIVE PAVEMENT MARKERS (BRIDGE)
- ⊥ PROPOSED SIGN/POST (BY OTHERS)

FOREST PRESERVE DIST
PROPERTY SIGN
+00.0, 56.0' LT
(SEE DETAIL ON SHEET 93)

RECREATIONAL SIGN
BROWN SIGN W/ WHITE
LETTERS & BORDER
24"x36"
21+25.0, 31.0' RT

Bliss Woods
Forest Preserve

STOP
R1-1
30"x30"

FILE NAME = W:\Projects\2013\1302282 Bliss PH\Road\Civil\Drawings\PMK_02.dgn

WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

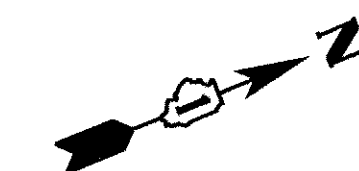
**PAVEMENT MARKING
& SIGNING PLAN**

SCALE: 1"=20' SHEET NO. 2 OF 3 SHEETS STA. 14+00.00 TO STA. 26+00.00

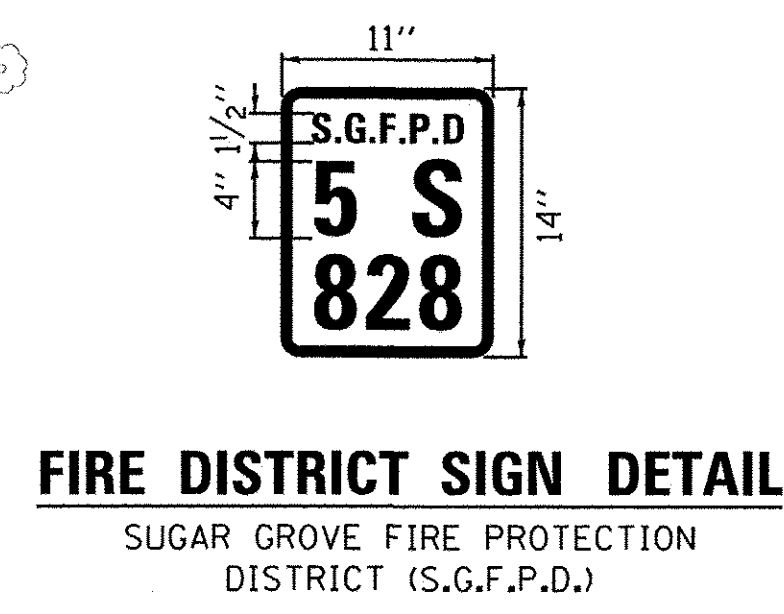
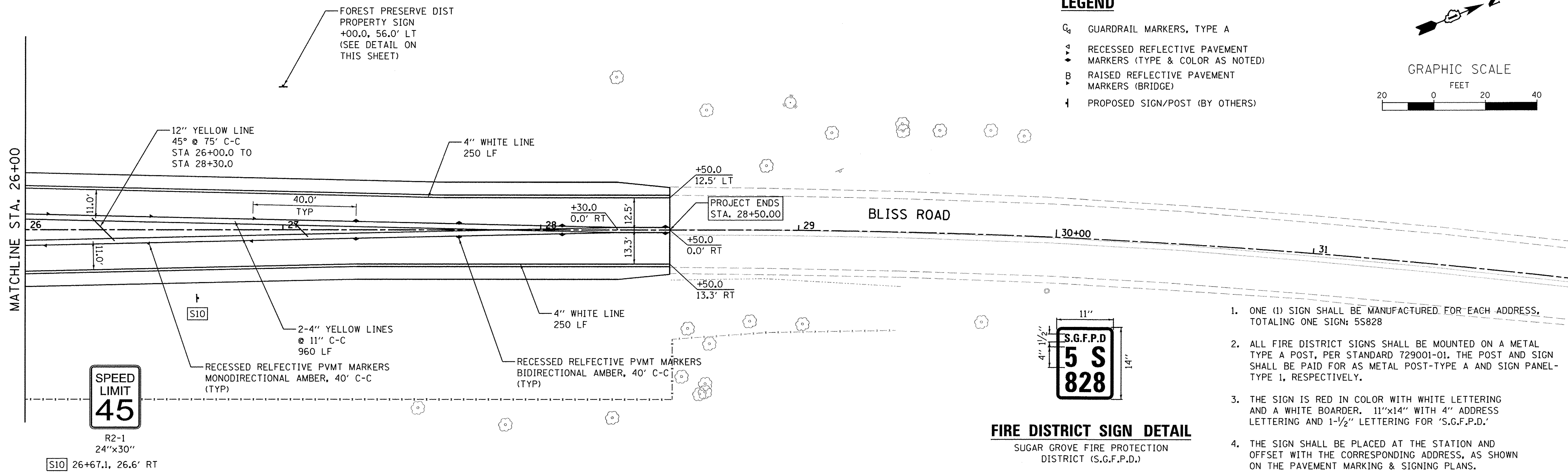
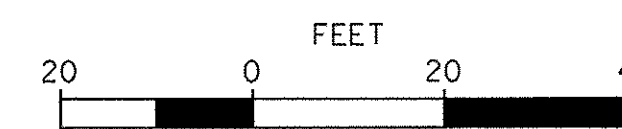
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	93
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

LEGEND

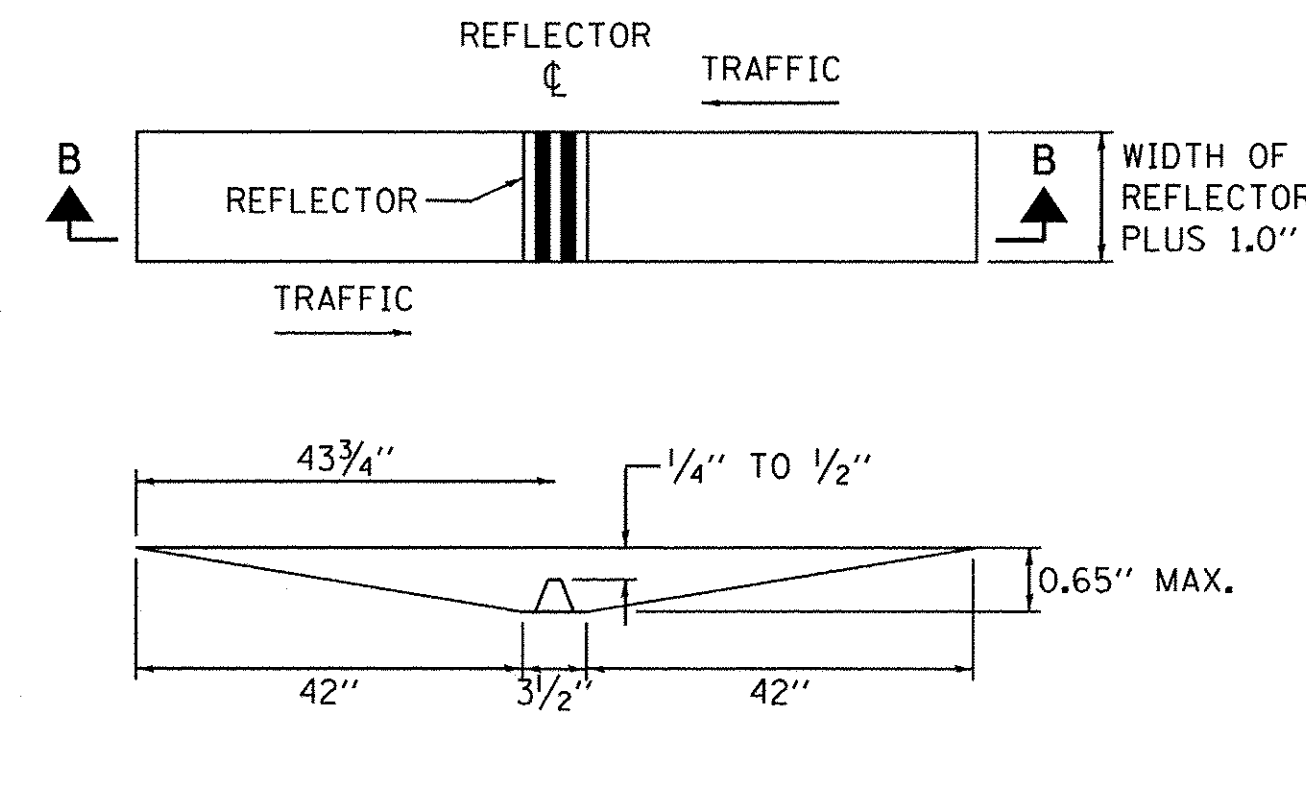
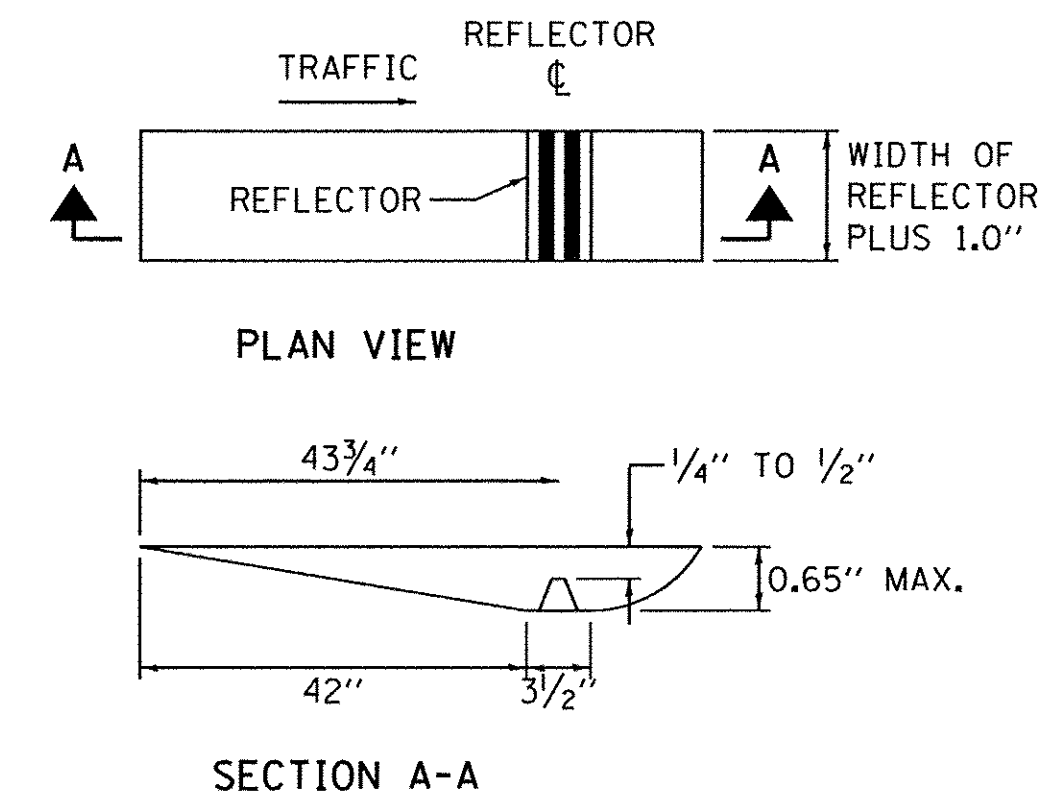
- G GUARDRAIL MARKERS, TYPE A
- S RECESSED REFLECTIVE PAVEMENT MARKERS (TYPE & COLOR AS NOTED)
- B RAISED REFLECTIVE PAVEMENT MARKERS (BRIDGE)
- I PROPOSED SIGN/POST (BY OTHERS)



GRAPHIC SCALE



1. ONE (1) SIGN SHALL BE MANUFACTURED FOR EACH ADDRESS, TOTALING ONE SIGN: 5S828
2. ALL FIRE DISTRICT SIGNS SHALL BE MOUNTED ON A METAL TYPE A POST, PER STANDARD 729001-01. THE POST AND SIGN SHALL BE PAID FOR AS METAL POST-TYPE A AND SIGN PANEL-TYPE 1, RESPECTIVELY.
3. THE SIGN IS RED IN COLOR WITH WHITE LETTERING AND A WHITE BORDER. 11"x14" WITH 4" ADDRESS LETTERING AND 1-1/2" LETTERING FOR 'S.G.F.P.D.'
4. THE SIGN SHALL BE PLACED AT THE STATION AND OFFSET WITH THE CORRESPONDING ADDRESS, AS SHOWN ON THE PAVEMENT MARKING & SIGNING PLANS.



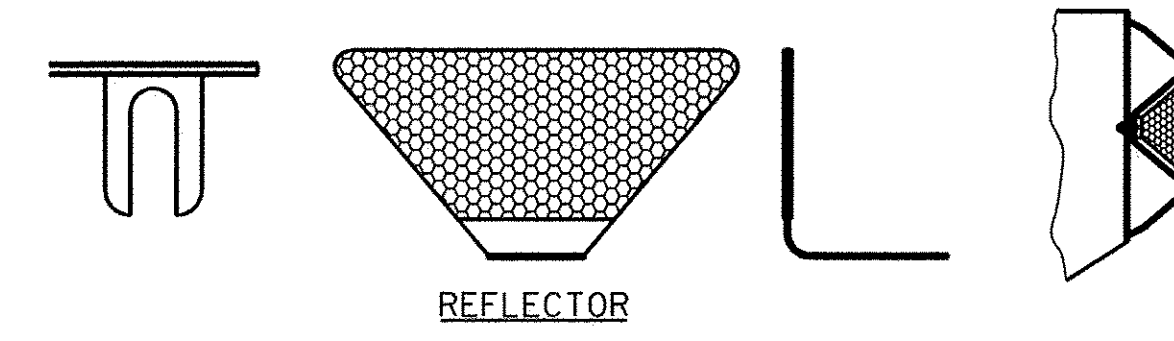
RECESSED RELECTIVE PAVEMENT MARKERS

GENERAL NOTES:

1. INSTALLATION SHALL CONFORM TO THE LATEST VERSION OF DISTRICT ONE DETAL TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTENT) FOR MARKER REPLACEMENT ONLY.
2. ANY REFERENCE TO RAISED REFLECTIVE PAVEMENT MARKER IN DISTRICT ONE DETAIL TC11 SHALL BE INTERPRETED TO MEAN RECESSED REFLECTIVE PAVEMENT MARKERS.

INSTALLATION NOTES:

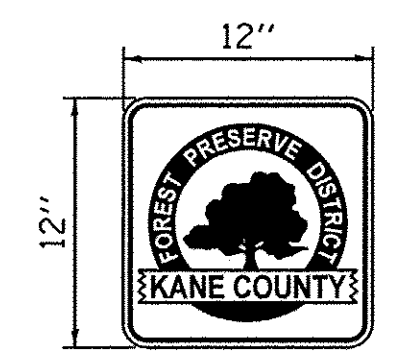
1. SAWCUT TO DIMENSIONS SHOWN.
2. SAWCUT AREAS TO BE DRY AND FREE OF MATERIAL THAT ADVERSELY AFFECTS THE ADHESIVE BOND.
3. INSTALL THE REFLECTOR WITH AN APPROVED TWO-COMPONENT EPOXY ADHESIVE. EPOXY SHOULD NOT OBSCURE OR BLOCK THE LENS.
4. INSTALL TOP OF REFLECTOR 1/2" TO 1/4" BELOW THE PAVEMENT SURFACE.



GUARDRAIL MARKER, TYPE A

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.



FOREST PRESERVE DISTRICT PROPERTY SIGN

FOREST PRESERVE DISTRICT OF KANE COUNTY

1. ALL FOREST PRESERVE DISTRICT PROPERTY SIGNS SHALL BE MOUNTED ON A METAL TYPE A POST, PER STANDARD 729001-01. THE POST AND SIGN SHALL BE PAID FOR AS METAL POST-TYPE A AND SIGN PANEL-TYPE 1, RESPECTIVELY.
2. THE SIGN IS WHITE IN COLOR WITH GREEN IMAGE, GREEN LETTING FOR 'KANE COUNTY' AND WHITE LETTERING FOR 'FOREST PRESERVE DISTRICT'.
3. THE SIGNS SHALL BE PLACED AT THE STATION AND OFFSET AS SHOWN ON THE PAVEMENT MARKING & SIGNING PLANS.

FILE NAME: M:\Projects\2013\1302282 Bliss Phl\Lead\Civil\Drawn\Shk\PMK_03.dgn



WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nporris	DESIGNED - SBP	REVISED - 10/17/16
PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - DPB	REVISED -
	DATE - 8/8/16	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING & SIGNING PLAN	
SCALE: 1"=20'	SHEET NO. 3 OF 3 SHEETS
STA. 26+00.00 TO STA. 28+50.00	

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 94
				CONTRACT NO. 61D20
ILLINOIS FED. AID PROJECT				

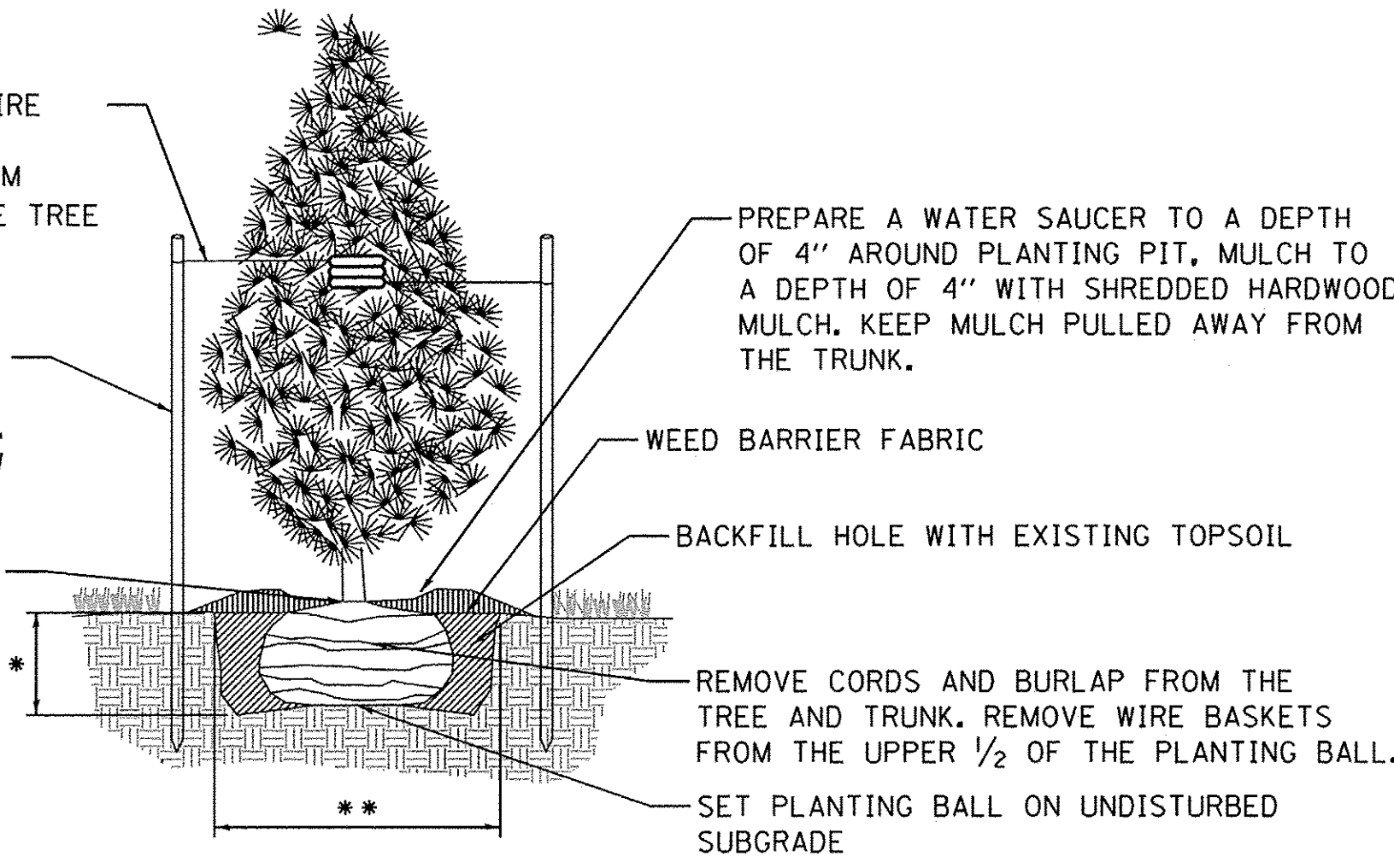
14 GAUGE GALVANIZED STEEL WIRE FOR GUYING, USE RUBBER HOSE OR EQ. TO PROTECT TRUNK FROM WIRE. SET GUYS 1/2 - 2/3 UP THE TREE

THREE 6' STEEL POSTS INSTALLED VERTICALLY AND PLACE EQUIDISTANT AROUND OUTSIDE OF THE PLANTING BALL. POST SHALL BE DRIVEN 18 INCHES BELOW BOTTOM OF THE HOLE.

SET PLANTING BALL IN PLUMB POSITION 2" ABOVE DEPTH GROWN IN THE NURSERY

*DEPTH OF ROOT BALL MINUS 2"

**3X ROOT BALL DIAMETER



EVERGREEN PLANTING DETAIL
N.T.S.

DO NOT PRUNE CENTRAL LEADER

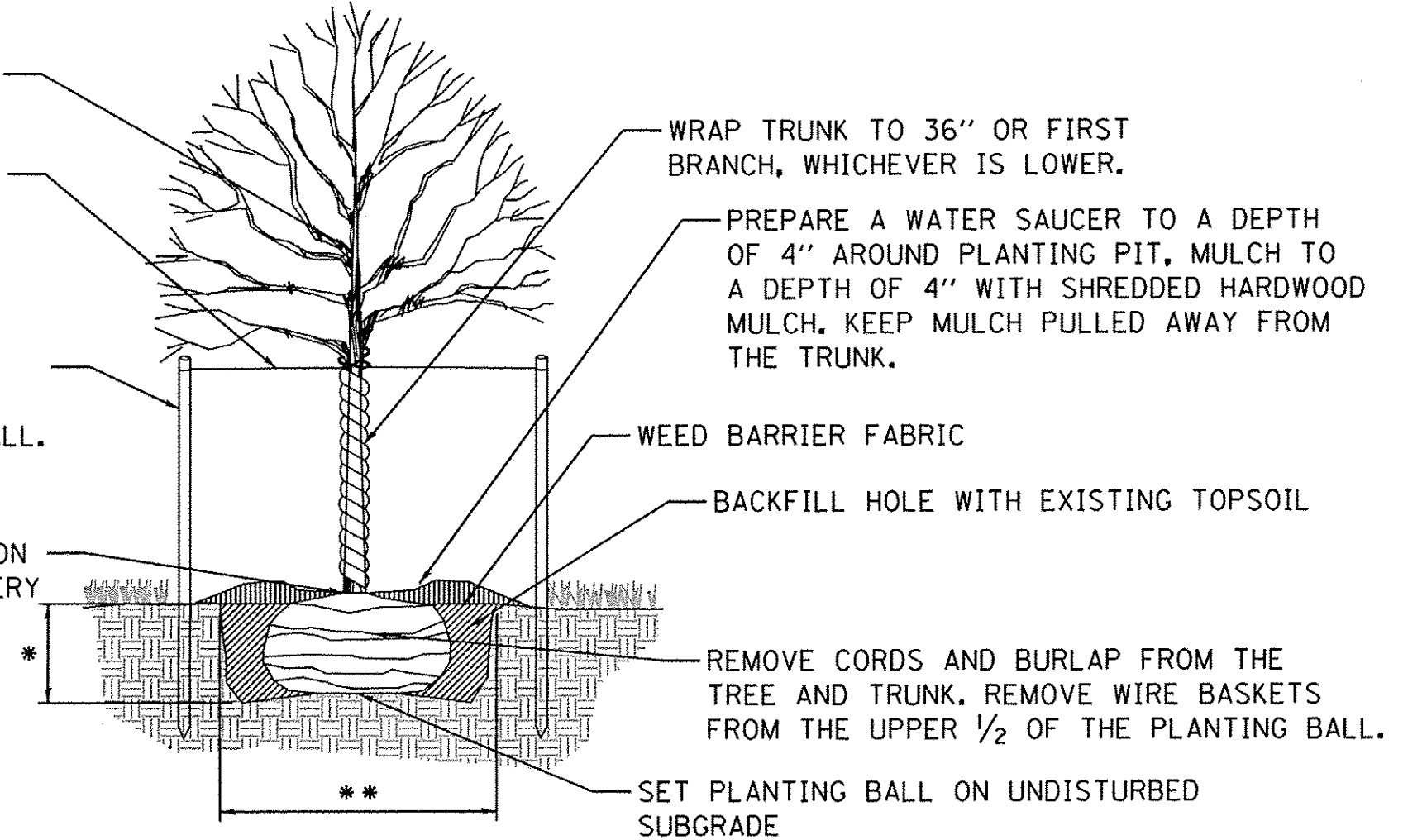
14 GAUGE GALVANIZED STEEL WIRE FOR GUYING, USE RUBBER HOSE OR EQ. TO PROTECT TRUNK FROM WIRE. SET GUYS 1/2 - 2/3 UP THE TREE

THREE 6' STEEL POSTS INSTALLED VERTICALLY AND PLACE EQUIDISTANT AROUND OUTSIDE OF THE PLANTING BALL. POST SHALL BE DRIVEN 18" BELOW BOTTOM OF THE HOLE.

SET PLANTING BALL IN PLUMB POSITION 2" ABOVE DEPTH GROWN IN THE NURSERY

*DEPTH OF ROOT BALL MINUS 2"

**3X ROOT BALL DIAMETER



TREE PLANTING DETAIL
N.T.S.

- GENERAL PLANTING NOTES**
1. DETAILS OF PLANTING REQUIREMENTS IN SECTION 253 OF THE STANDARD SPECIFICATIONS.
 2. THE CONTRACTOR IS RESPONSIBLE FOR LAYOUT OF ALL PLANTINGS. FINAL LOCATION OF THE PLANTINGS MAY BE ADJUSTED IN THE FIELD IF NEEDED TO BETTER BLEND WITH THE FINAL GRADING.
 3. SEE EROSION CONTROL, SEEDING • LANDSCAPING SHEETS FOR TREE AND SHRUB LOCATIONS.

ORNAMENTAL PLANTING TABLE - CHURCH SIGN LANDSCAPING

DESCRIPTION	UNIT	QTY
NEPETA x FAASSENII 'KIT KAT' KIT CAT CATMINT, 1 GALLON CONTAINER	EACH	18
BUXUS 'GLENCOE' CHICAGOLAND GREEN BOX WOOD, 24" HEIGHT, BALLED AND BURLAPPED	EACH	10

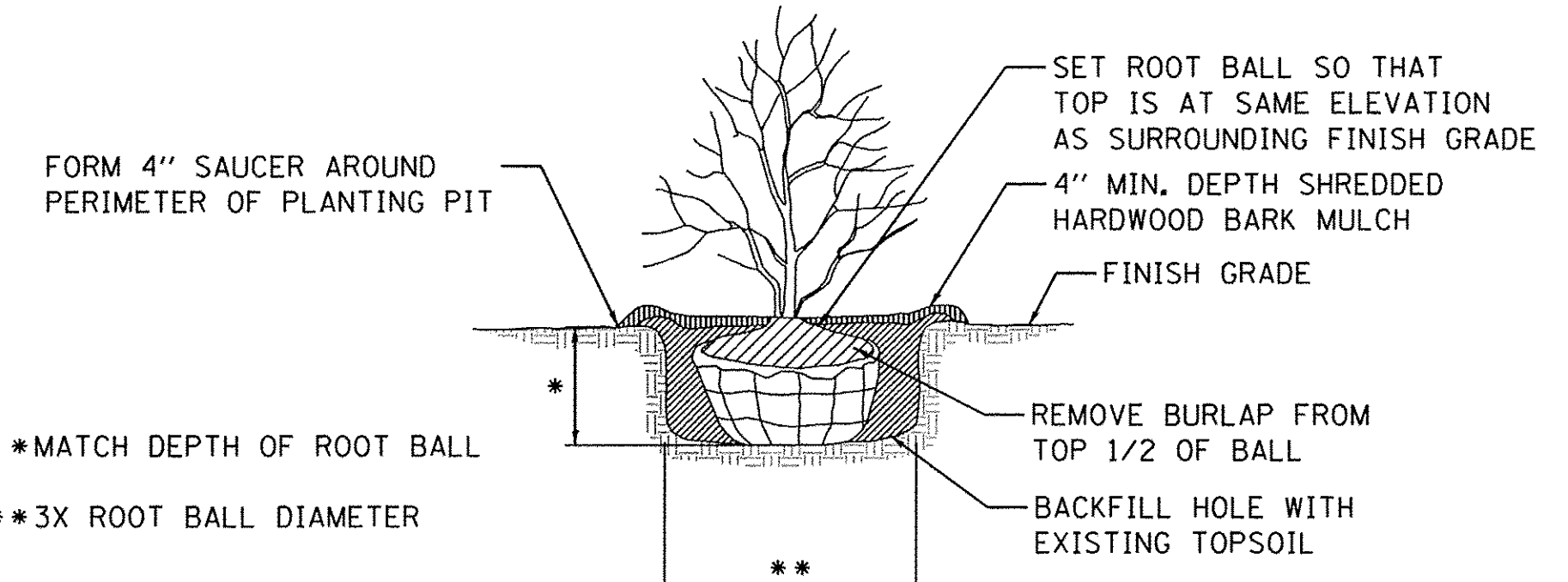
NOTE: THESE PLANTINGS ARE NOT MEASURED SEPARATELY FOR PAYMENT, BUT ARE INCLUDED IN THE COST FOR "LANDSCAPE PLANTING COMPLETE."

TREE PLANTING TABLE - BLISS ROAD

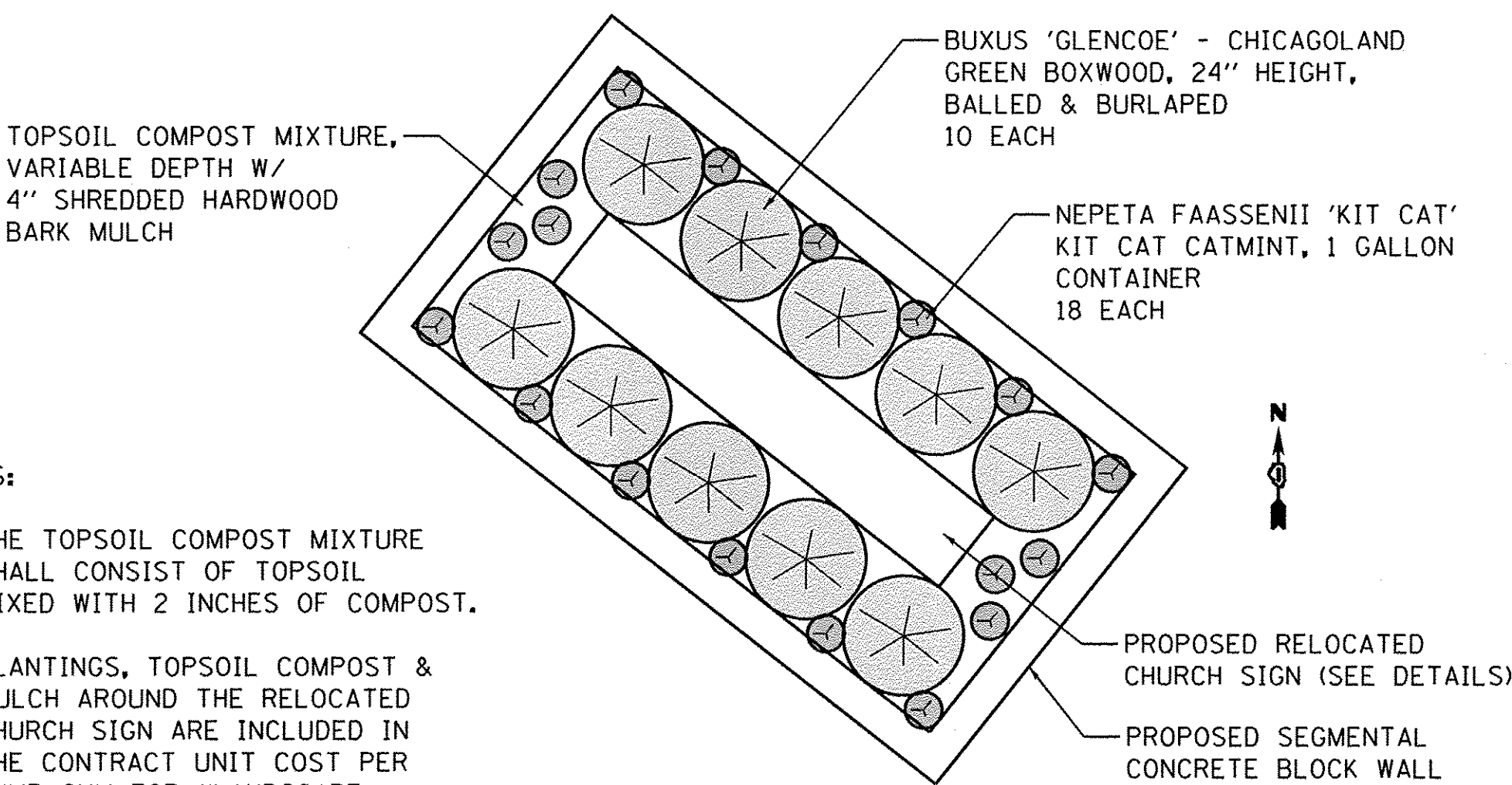
PAY ITEM	DESCRIPTION	UNIT	LABEL	QTY
A2002920	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	CO	3
A2005020	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	GD	4
A2005674	TREE, OSTRYA VIRGINIANA (AMERICAN HOPHORNBEAM), 10' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	OV	12
A2006520	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	QB	3
A2006618	TREE, QUERCUS IMBRICARIA (SHINGLE OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	QI	3
A2006720	TREE, QUERCUS MACROCARPA (BUR OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	QM	5
A2008519	TREE, ULMUS MORTON GLOSSY (TRIUMPH ELM), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	UM	3
B2000766	TREE, AMELANCHIER X GRANDIFLORA AUTUMN BRILLIANCE (AUTUMN BRILLIANCE SERVICE BERRY), 6' HEIGHT, SHRUB FORM, BALLED AND BURLAPPED	EACH	AG	6
B2001166	TREE, CERCIS CANADENSIS (EASTERN REDBUD), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	CE	7
B2001566	TREE, CRATAEGUS CRUSGALLI (COCKSPUR HAWTHORN), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	CC	6
B2001866	TREE, CRATAEGUS MOLLIS (DOWNY HAWTHORN), 6' HEIGHT, CLUMP FORM, BALLED AND BURLAPPED	EACH	CM	5
D2001984	EVERGREEN, PICEA GLAUCA DENSATA (BLACK HILLS SPRUCE), 7' HEIGHT, BALLED AND BURLAPPED	EACH	PG	7
D2002184	EVERGREEN, PICEA PUNGENS (COLORADO SPRUCE), 7' HEIGHT, BALLED AND BURLAPPED	EACH	PP	7
D2002984	EVERGREEN, PINUS STROBUS (EASTERN WHITE PINE), 7' HEIGHT, BALLED AND BURLAPPED	EACH	PS	3

SHRUB PLANTING TABLE - BLISS ROAD

PAY ITEM	DESCRIPTION	UNIT	LABEL	QTY
C2000536	SHRUB, ARONIA MELANOCARPA (BLACK CHOKE BERRY), 3' HEIGHT, BALLED AND BURLAPPED	EACH	AM	9
C2001136	SHRUB, CEPHALANTHUS OCCIDENTALIS (BUTTON BUSH), 3' HEIGHT, BALLED AND BURLAPPED	EACH	COC	11
C2001636	SHRUB, CORNUS SERICEA (REDSIER DOGWOOD), 3' HEIGHT, BALLED AND BURLAPPED	EACH	CS	16
C2002036	SHRUB, CORYLUS AMERICANA (AMERICAN FILBERT), 3' HEIGHT, BALLED AND BURLAPPED	EACH	CA	10
C2003436	SHRUB, HYDRANGEA ARBORESCENS ANNABELLE (ANNABELLE SMOOTH HYDRANGEA), 3' HEIGHT, BALLED AND BURLAPPED	EACH	HA	7
C2004536	SHRUB, MYRICA PENNSYLVANICA (BAYBERRY), 3' HEIGHT, BALLED AND BURLAPPED	EACH	MP	7
C2004840	SHRUB, PHYSOCARPUS OPULIFOLIUS MONLO (DIABLO COMMON NINEBARK), 3' HEIGHT, BALLED AND BURLAPPED	EACH	PO	7
C2007224	SHRUB, ROSA KNOCKOUT (KNOCKOUT ROSE), 24" HEIGHT, CONTAINER	EACH	RK	10
C2009410	SHRUB, SALIX DISCOLOR (PUSSY WILLOW), 3' HEIGHT, BALLED AND BURLAPPED	EACH	SD	11
C2009636	SHRUB, SAMBUCUS CANADENSIS (COMMON ELDERBERRY), 3' HEIGHT BALLED AND BURLAPPED	EACH	SC	11
C2010324	SHRUB, SPIREA NIPPONICA SNOWMOUND (SNOW MOUND NIPPON SPIREA), 2' HEIGHT, BALLED AND BURLAPPED	EACH	SS	10
C2010924	SHRUB, SYRINGA MEYERI PALIBIN (DWARF KOREAN LILAC), 2' HEIGHT, BALLED AND BURLAPPED	EACH	SM	10
C2012760	SHRUB, VIBURNUM PRUNIFOLIUM (BLACKHAW VIBURNUM), 5' HEIGHT, BALLED AND BURLAPPED	EACH	VP	5
C2C02936	SHRUB, FORSYTHIA X INTERMEDIA (BORDER FORSYTHIA), 3' HEIGHT, CONTAINER	EACH	FI	8
C2C03432	SHRUB, HYDRANGEA QUERCIFOLIA (OAKLEAF HYDRANGEA), 2' HEIGHT, CONTAINER	EACH	HP	7
C2C06218	SHRUB, RIBES AMERICANUM (WILD BLACK CURRANT), 18" HEIGHT, CONTAINER	EACH	RA	7



SHRUB PLANTING DETAIL
N.T.S.



- NOTES:**
1. THE TOPSOIL COMPOST MIXTURE SHALL CONSIST OF TOPSOIL MIXED WITH 2 INCHES OF COMPOST.
 2. PLANTINGS, TOPSOIL COMPOST & MULCH AROUND THE RELOCATED CHURCH SIGN ARE INCLUDED IN THE CONTRACT UNIT COST PER LUMP SUM FOR "LANDSCAPE PLANTING COMPLETE."

CHURCH SIGN LANDSCAPING PLAN
SEE SHEETS 120 & 121 FOR SIGN & WALL DETAILS

FILE NAME = W:\Projects\2013\130282_Bilas_Phil\Lead\G:\1\Dgn\Shr\LANDSCP_01.dgn

WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nporris	DESIGNED - LJL	REVISED - 10/17/16
PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - SBP	REVISED -
	DATE - 8/8/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHURCH SIGN LANDSCAPING PLAN,
LANDSCAPING DETAILS & PLANTING LISTS

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

F.A.P. RTE. 520	SECTION 08-0058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 95
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

BENCHMARK

NGS monument designation "AJ3002" stamped "IL-KANE-9-38-7" and "KCIDOT". Steel rod in sleeve set about 0.40 ft. below stamped cap. 0.25 miles N.E. of Rt. 47 along Bliss Rd. and 23.1 ft. west of the centerline of Bliss Rd.. Project Sta. ±17+97.83; 24.28' Lt. Elev. 685.929.

EXISTING STRUCTURE

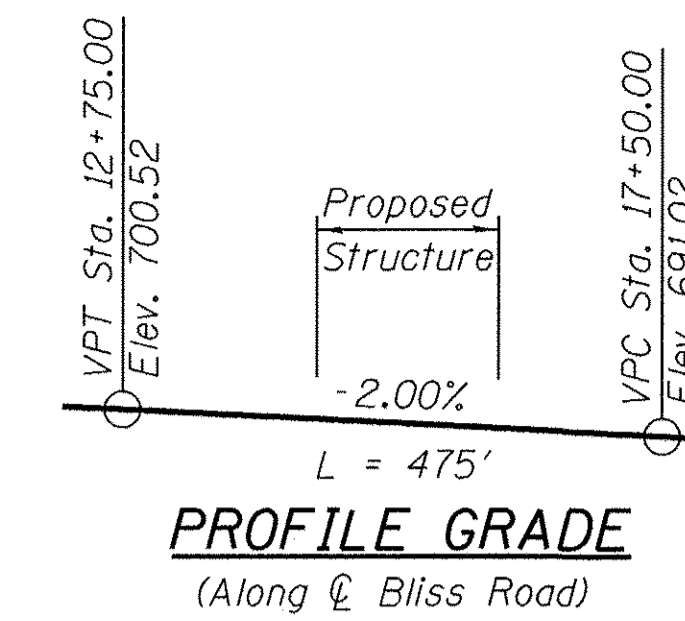
S.N. 045-3006 was built in 1931 and reconstructed in 1979 under S.A. Rte. 9, Sec. 78-00058-01-BR at Sta. 14+30. The superstructure is a single-span precast prestressed concrete deck beam structure supported on reinforced concrete closed abutments on spread footings. In 1979 the bridge was widened and approach spans added using reinforced concrete channel beams. The structure measures 50'-0" back to back of abutments and 40'-0" out to out of deck. Structure is to be removed and replaced using staged construction.

SALVAGE

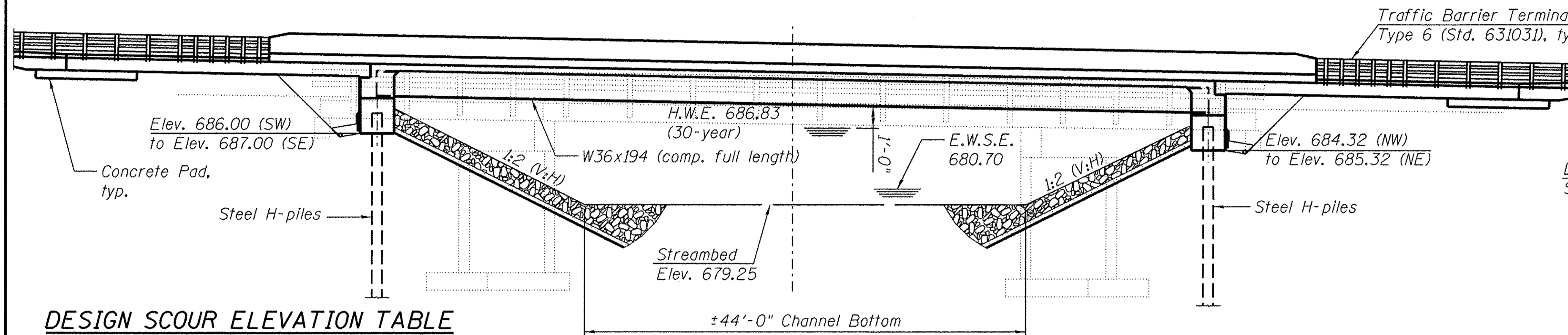
Existing bridge railing and guardrail to be salvaged.

WATERWAY INFORMATION

Drainage Area = 26 sq. mi.		Exist. Low Grade Elev. 688.78 at Sta. 19+70.87		Prop. Low Grade Elev. 688.81 at Sta. 19+70.87					
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	10	999	308	384	685.96	0.62	0.57	686.58	686.53
Base	30	1521	350	453	686.83	0.82	0.72	687.65	687.55
Overtopping	100	1991	363	504	687.44	1.18	0.85	688.62	688.29
Max. Calc.	500	2907	363	586	688.46	1.84	1.15	690.30	689.61



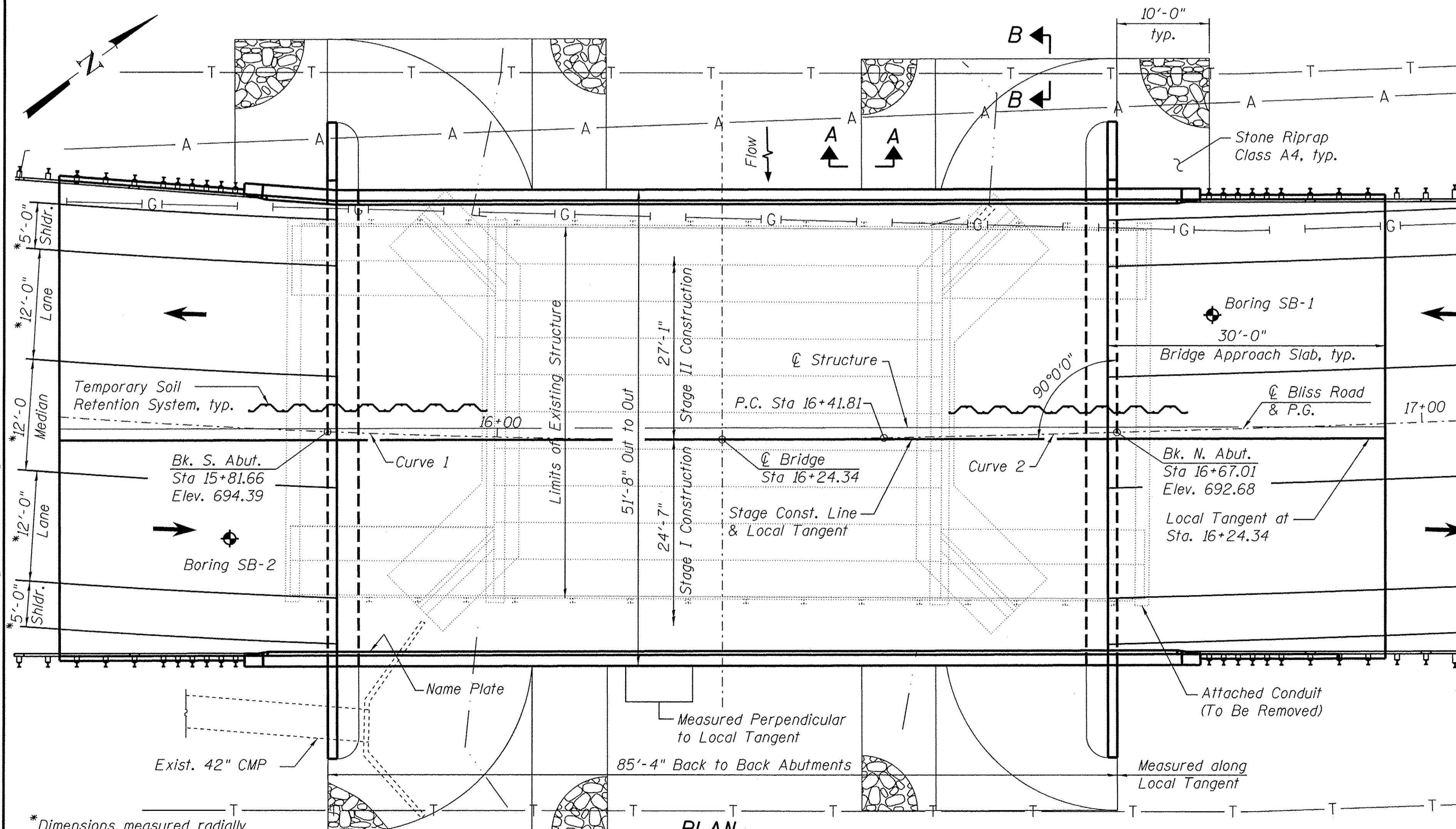
10-Year Velocity through Existing Bridge = 3.0 ft/s
10-Year Velocity through Proposed Bridge = 3.0 ft/s



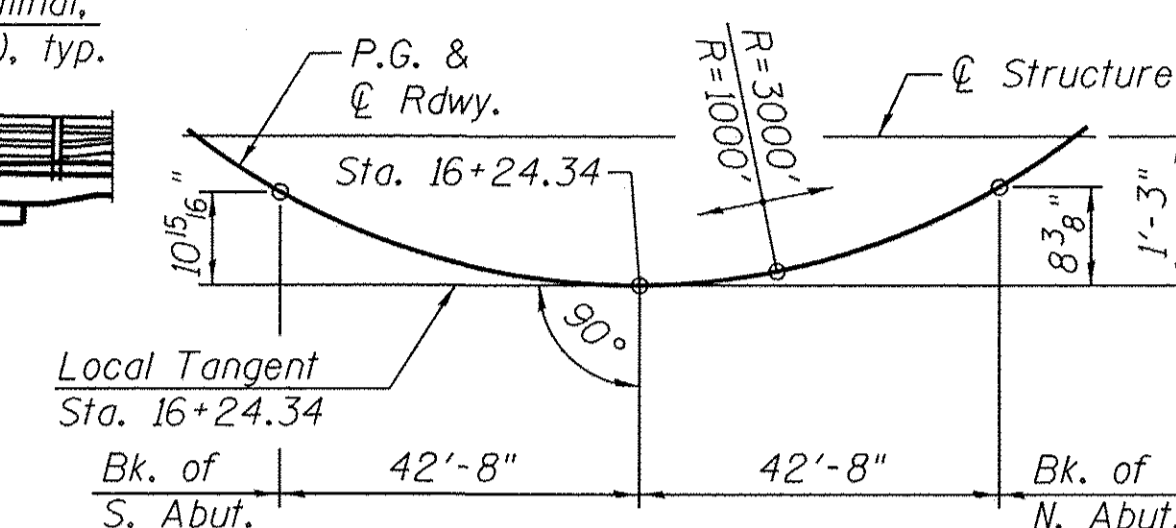
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	S. Abut.	N. Abut.
	686.00	684.32

ELEVATION



PLAN



OFFSET SKETCH

CURVE 1 DATA

(BR PR-1)
Δ = 25° 42' 09" (LT)
D = 5° 43' 46"
T = 228.13'
L = 448.59'
E = 25.69'
R = 1,000.00'
S.E. = 4.0%
P.C. STA. = 11+93.22
P.T. STA. = 16+41.81
PI STA. = 14+21.35

CURVE 2 DATA

(BR PR-2)
Δ = 13° 04' 15" (LT)
D = 1° 54' 35"
T = 343.69'
L = 684.39'
E = 19.62'
R = 3,000.00'
S.E. = 2.5%
P.C. STA. = 16+41.81
P.T. STA. = 23+26.20
PI STA. = 19+85.50

DESIGN STRESSES

FIELD UNITS
f'c = 3,500 psi
f'c = 4,000 psi (Superstructure & Apr. Slab)
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50W)

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Ed.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.090g
Design Spectral Acceleration at 0.2 sec. (S_{Ds}) = 0.164g
Soil Site Class = D

INDEX OF SHEETS

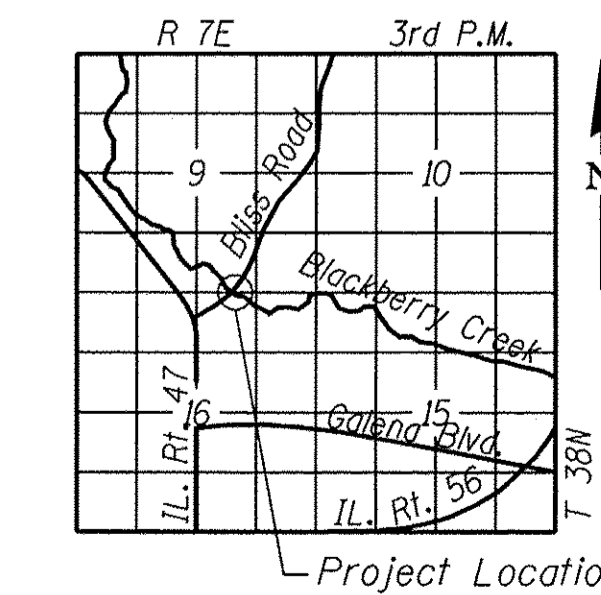
- General Plan and Elevation
- General Data
- Stage Construction Details
- Temporary Concrete Barrier for Stage Construction
- Top of Slab Plan
- Top of Slab Elevations
- Top of South Approach Slab Elevations
- Top of North Approach Slab Elevations
- Superstructure
- Superstructure Details
- Diaphragm Details
- Bridge Approach Slab Details (1 of 2)
- Bridge Approach Slab Details (2 of 2)
- Structural Steel
- Structural Steel Details
- South Abutment
- North Abutment
- HP Pile Details
- Bar Splicer Assembly Details
- Soil Boring Logs
- Existing Plans I
- Existing Plans II
- Existing Plans III
- Existing Plans IV

David A. Root

License No. 081-005861
Date: August 5, 2016
License Expires: November 30, 2016



I certify that to the best of my knowledge, information and belief, the structure and design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Bridge Design Specifications".



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
BLISS ROAD OVER BLACKBERRY CREEK
SECTION 08-00058-02-BR
KANE COUNTY
STATION 16+24.34
STRUCTURE NO. 045-3030

FILE NAME = W:\Projects\2013\120282 - Bliss PH\cadd\Structural\0453030-001-0P1.dgn



WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = \$USER\$
PLOT SCALE = \$SCALE\$
PLOT DATE = 10/24/2016

DESIGNED - JMM	REVISED -
CHECKED - DLS	REVISED -
DRAWN - JMM	REVISED -
CHECKED - DLS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

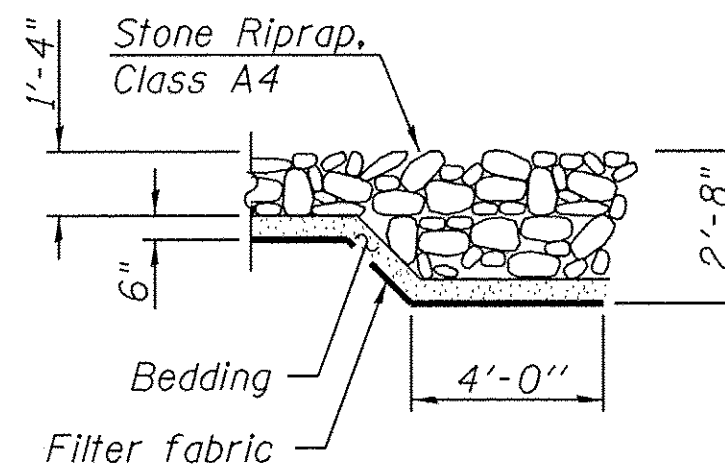
BLISS ROAD OVER BLACKBERRY CREEK

SHEET NO. 1 OF 24 SHEETS

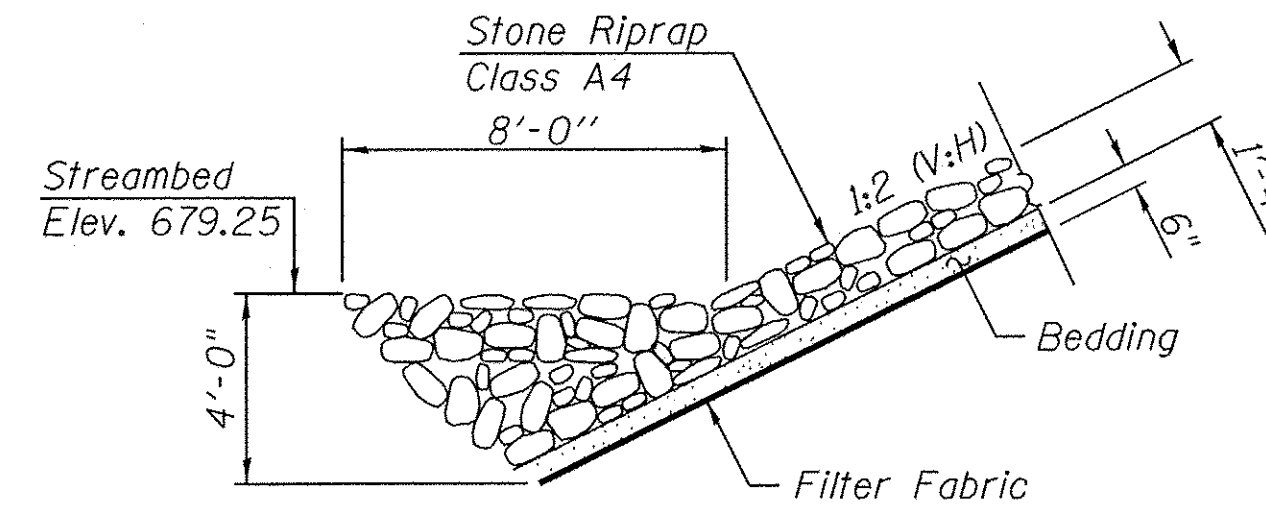
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	96
FED. ROAD DIST. NO.			FED. AID PROJECT	
			CONTRACT NO. 61D20	

GENERAL NOTES

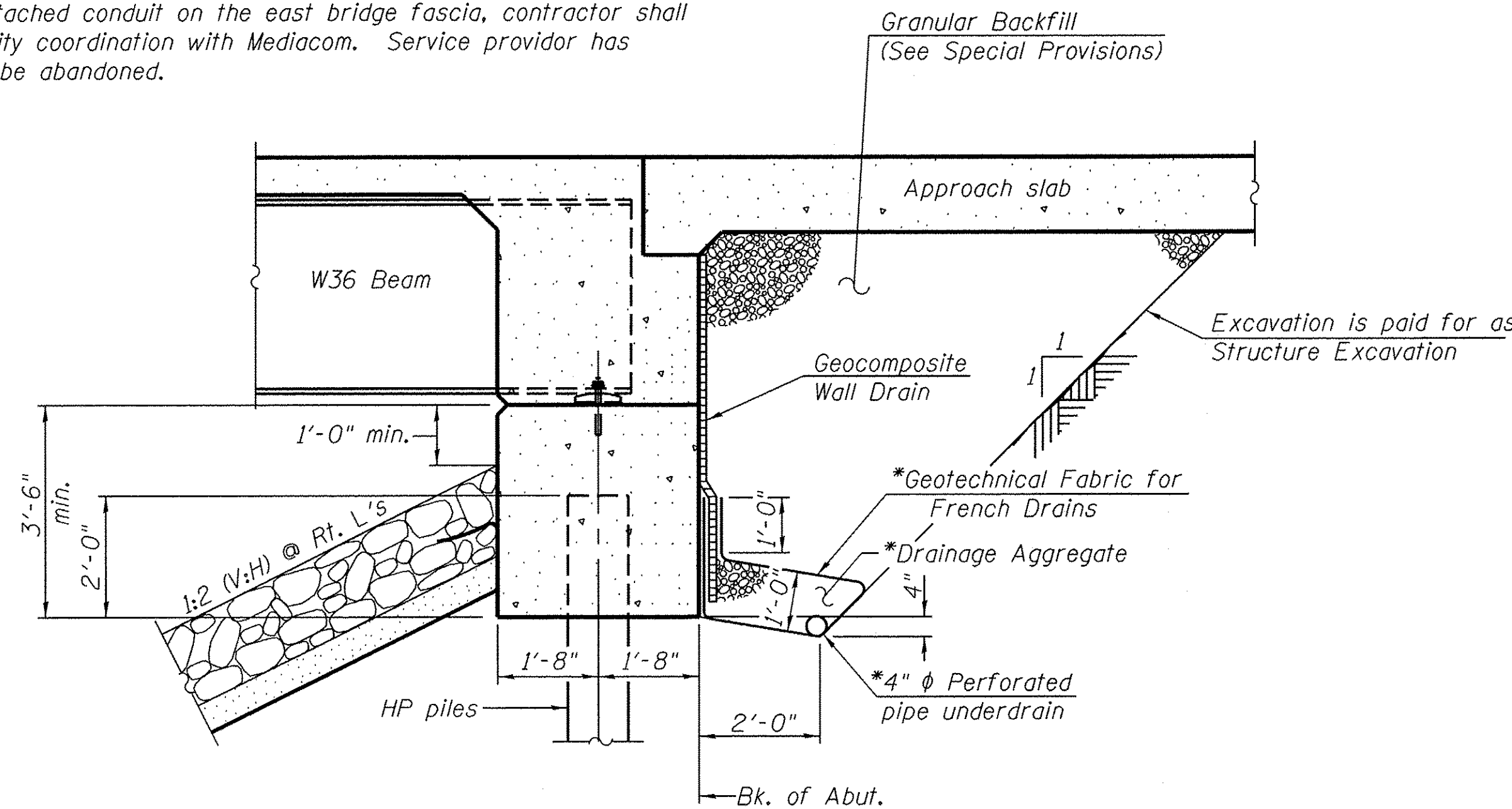
- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts in painted areas and M164 Type 3 in unpainted areas. Bolts $\frac{7}{8}$ in. ϕ , holes $\frac{15}{16}$ in. ϕ , unless otherwise noted.
- Calculated weight of Structural Steel = 142,180 lbs. (Grade 50W)
- All structural steel shall be AASHTO M 270 Grade 50W.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 18 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
- Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- Existing bridge railing to be removed. Cost included in the pay item "Removal of Existing Structures."
- Existing bituminous wearing surface to be removed. Cost included in the pay item "Removal of Existing Structures."
- 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.
- Prior to removal of attached conduit on the east bridge fascia, contractor shall be responsible for utility coordination with Mediacom. Service provider has deemed the facility to be abandoned.



SECTION B-B



SECTION A-A



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures.
(See Special Provisions)

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

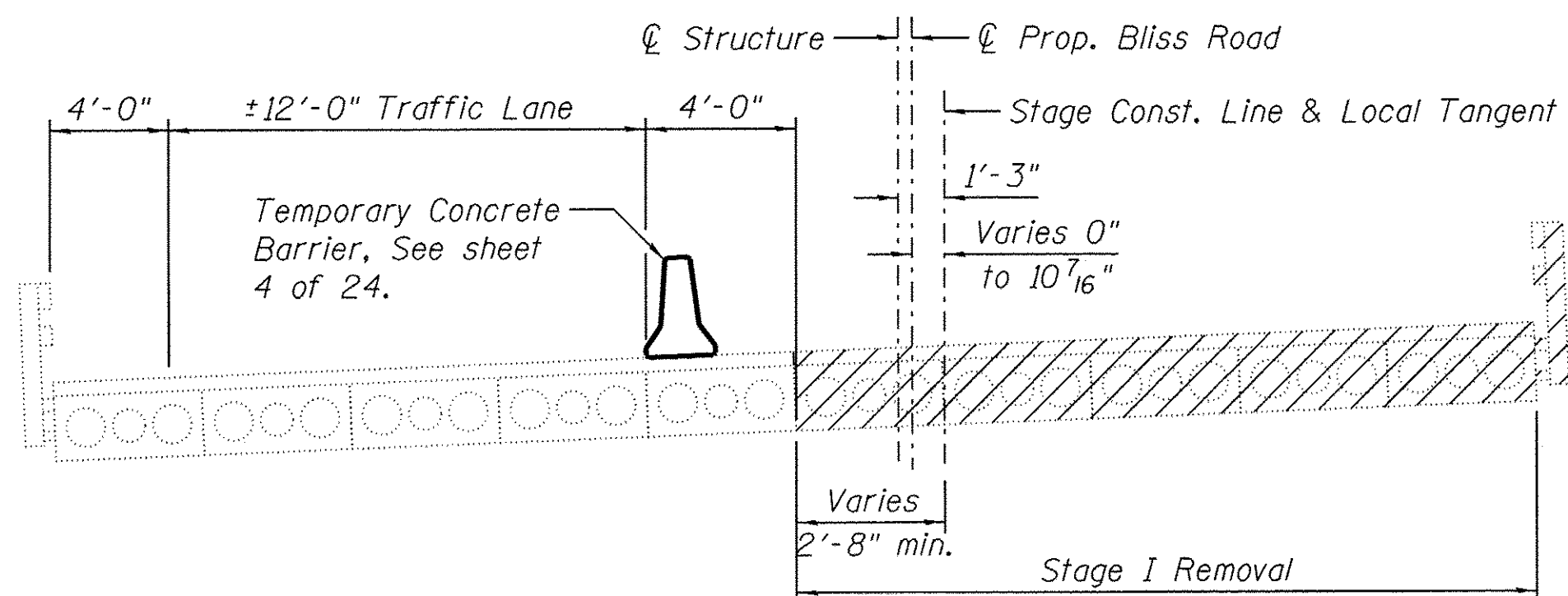
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		575	575
Filter Fabric	Sq. Yd.		575	575
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		117	117
Concrete Structures	Cu. Yd.		89.8	89.8
Concrete Superstructure	Cu. Yd.	170.3		170.3
Bridge Deck Grooving	Sq. Yd.	750		750
Protective Coat	Sq. Yd.	875		875
Concrete Superstructure (Approach Slab)	Cu. Yd.	153.0		153.0
Furnishing and Erecting Structural Steel	L Sum	1		1
Stud Shear Connectors	Each	1,560		1,560
Reinforcement Bars, Epoxy Coated	Pound	68,930	15,740	84,670
Bar Splicers	Each	424	116	540
Furnishing Steel Piles HP12x53	Foot		462	462
Driving Piles	Foot		462	462
Test Pile Steel HP 12x53	Each		2	2
Pile Shoes	Each		16	16
Name Plates	Each	1		1
Anchor Bolts, 1"	Each		32	32
Temporary Soil Retention System	Sq. Ft.		391	391
Geocomposite Wall Drain	Sq. Yd.		98	98
Granular Backfill for Structures	Cu. Yd.		175	175
Pipe Underdrains for Structures, 4"	Foot		168	168

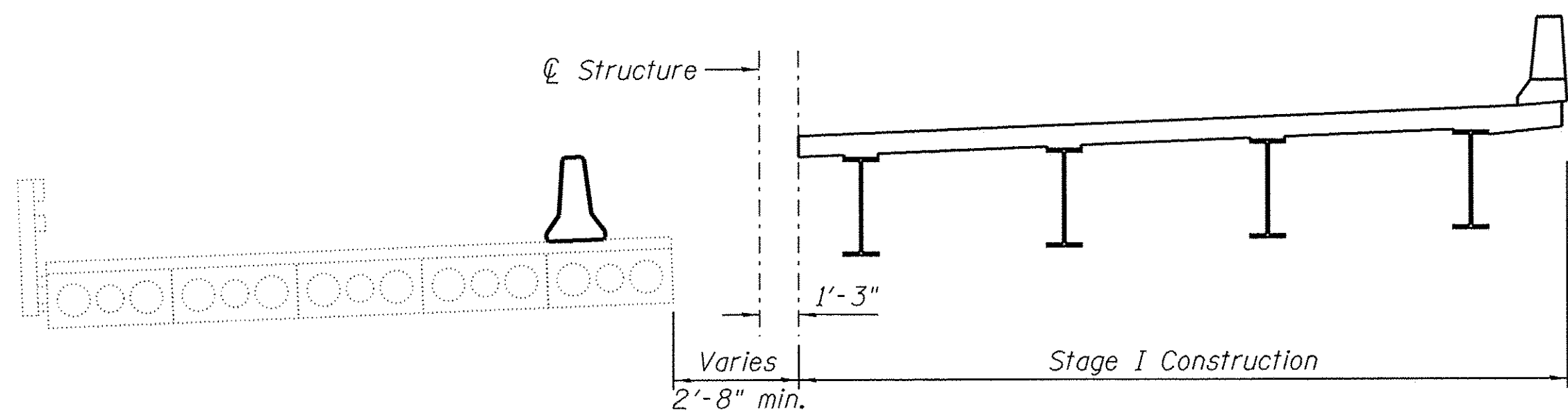
BLACKBERRY CREEK
BUILT BY
KANE COUNTY
SECTION 08-00058-02-BR
F.A. RT. 520 STA. 16+24.34
STR. NO. 045-3030 LOADING HL-93

NAME PLATE
See Std. 515001

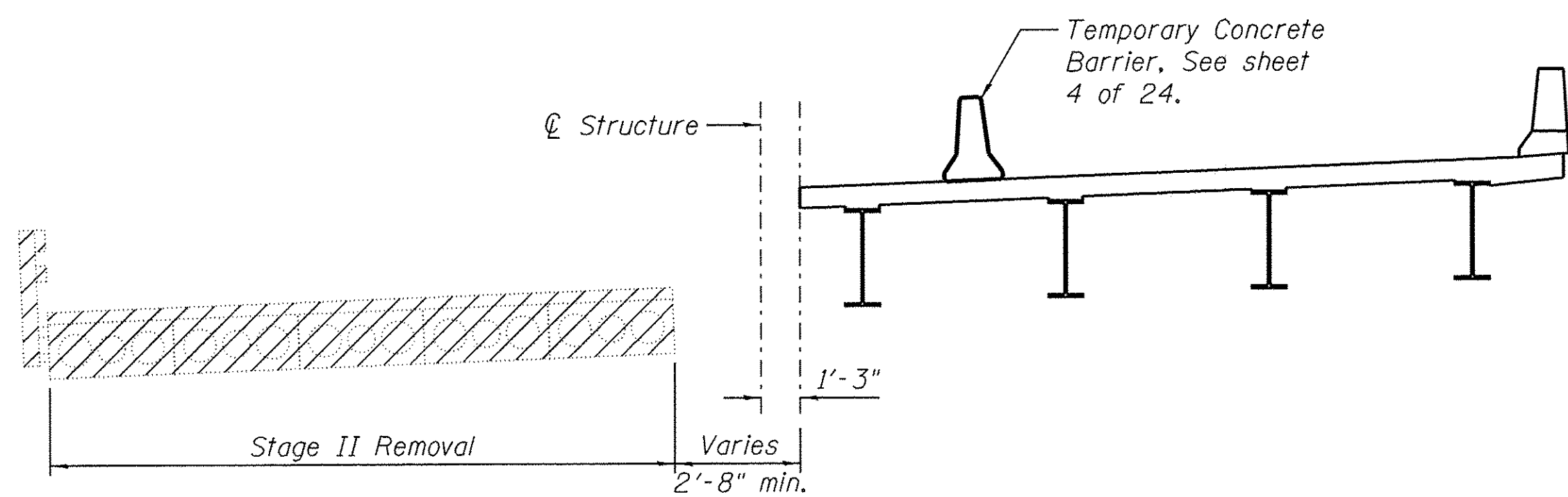
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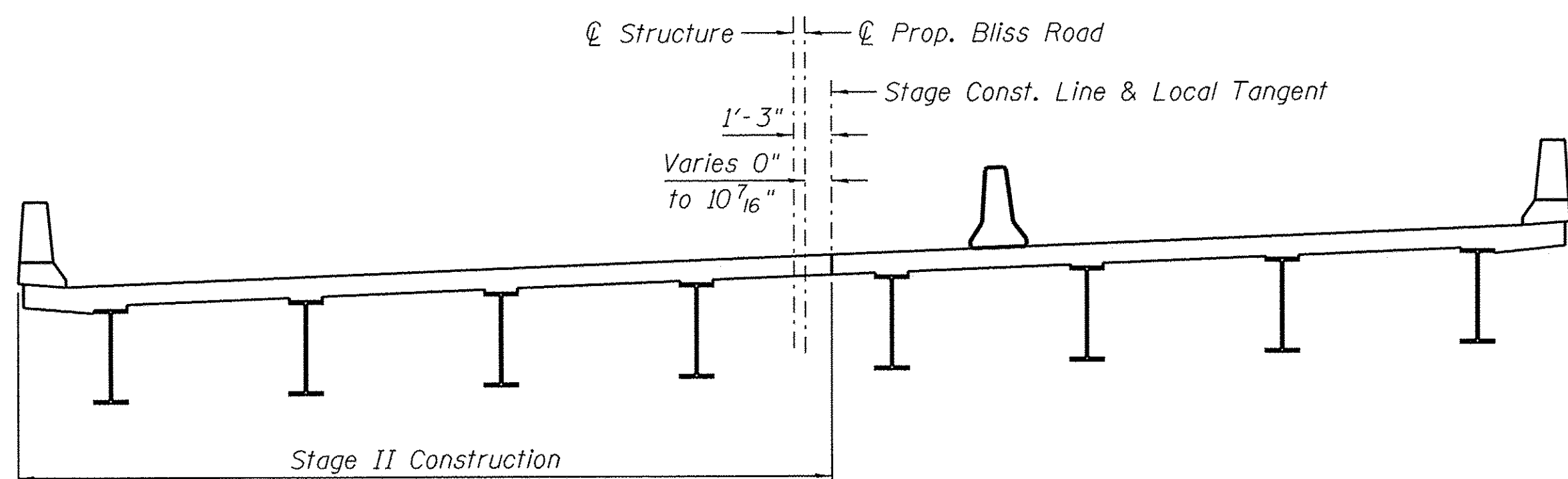
STAGE I REMOVAL



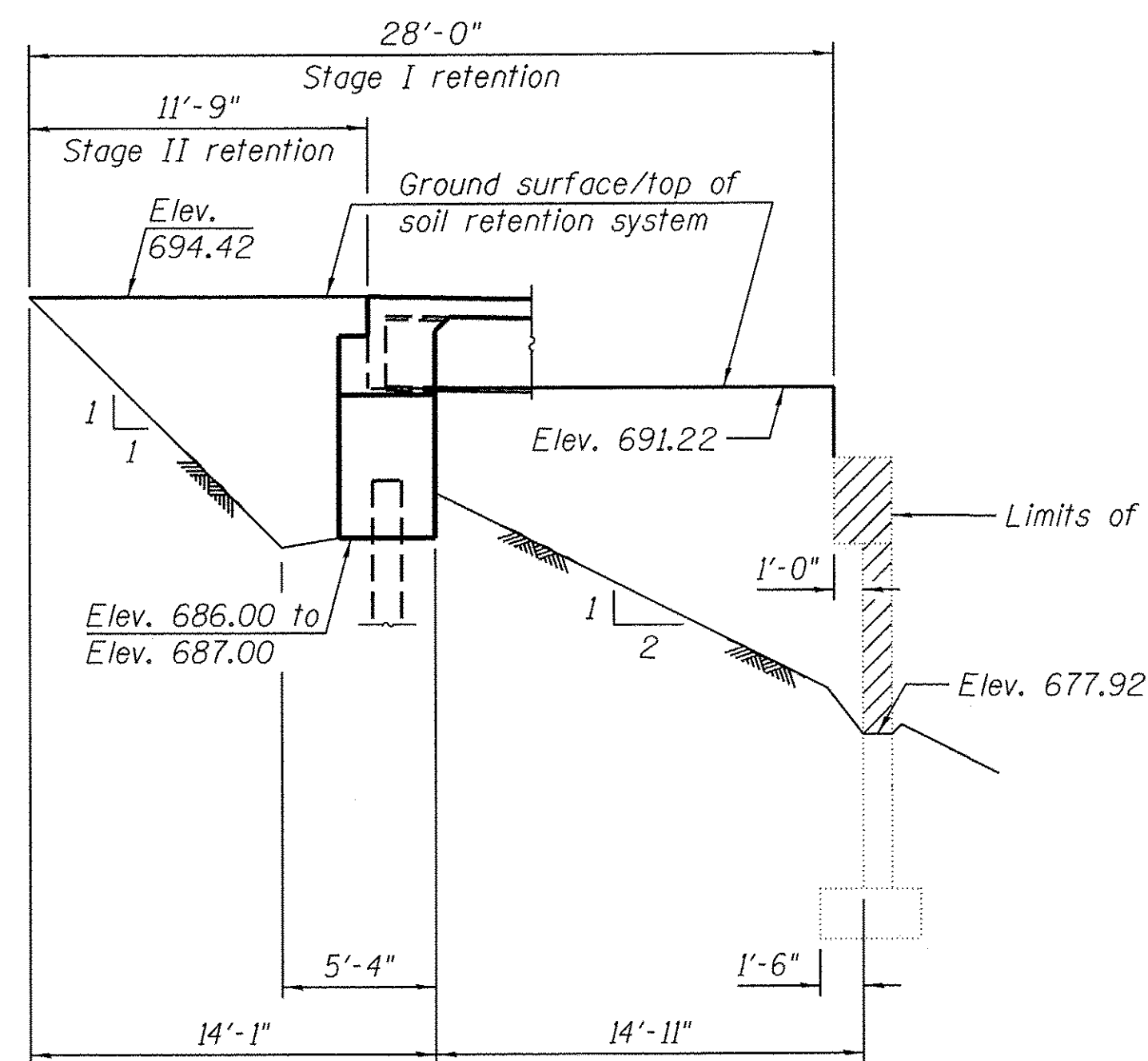
STAGE I CONSTRUCTION



STAGE II REMOVAL

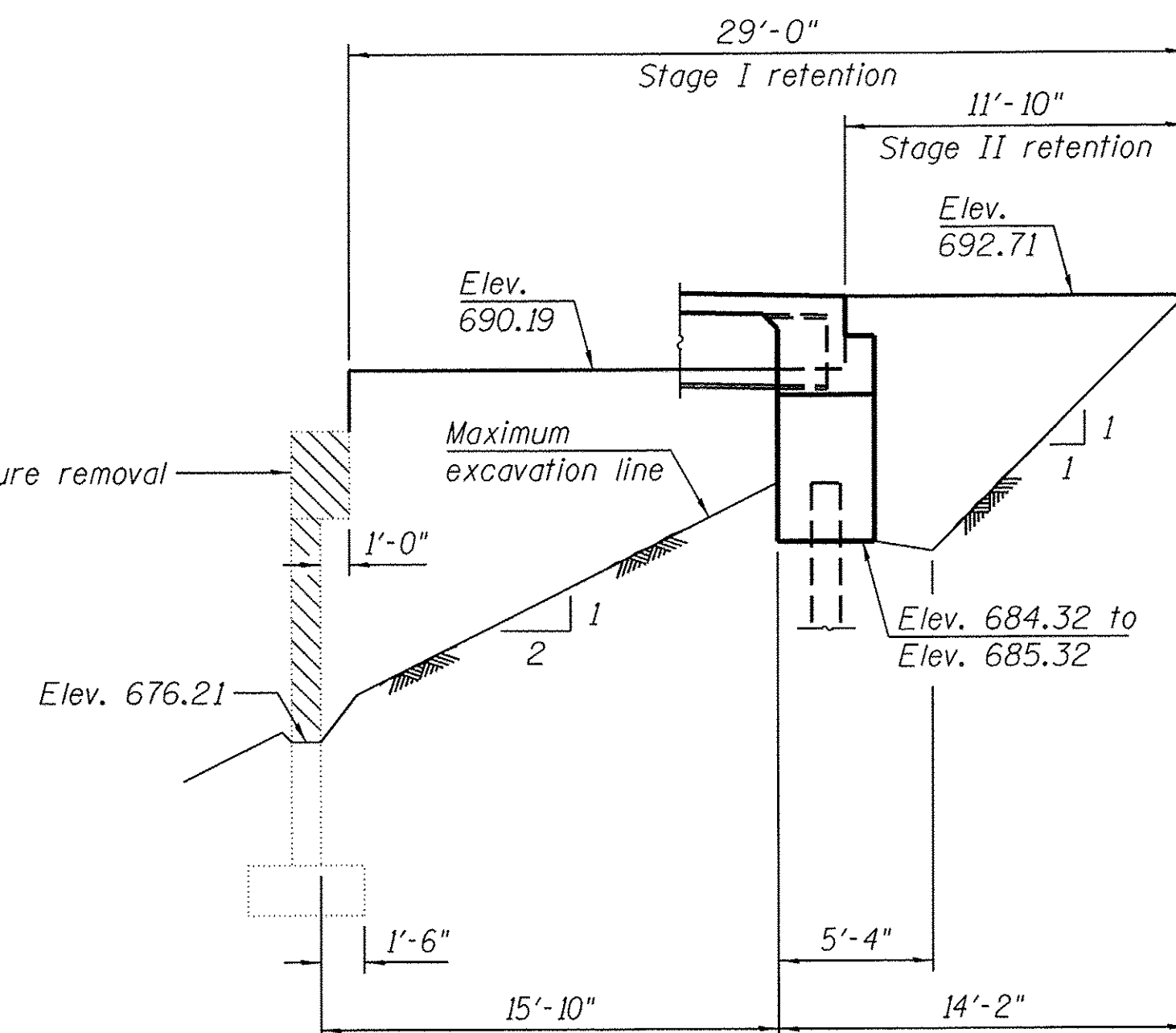


STAGE II CONSTRUCTION



TEMPORARY SOIL RETENTION SYSTEM AT SOUTH ABUTMENT

Dimensions measured along stage construction line



TEMPORARY SOIL RETENTION SYSTEM AT NORTH ABUTMENT

Dimensions measured along stage construction line

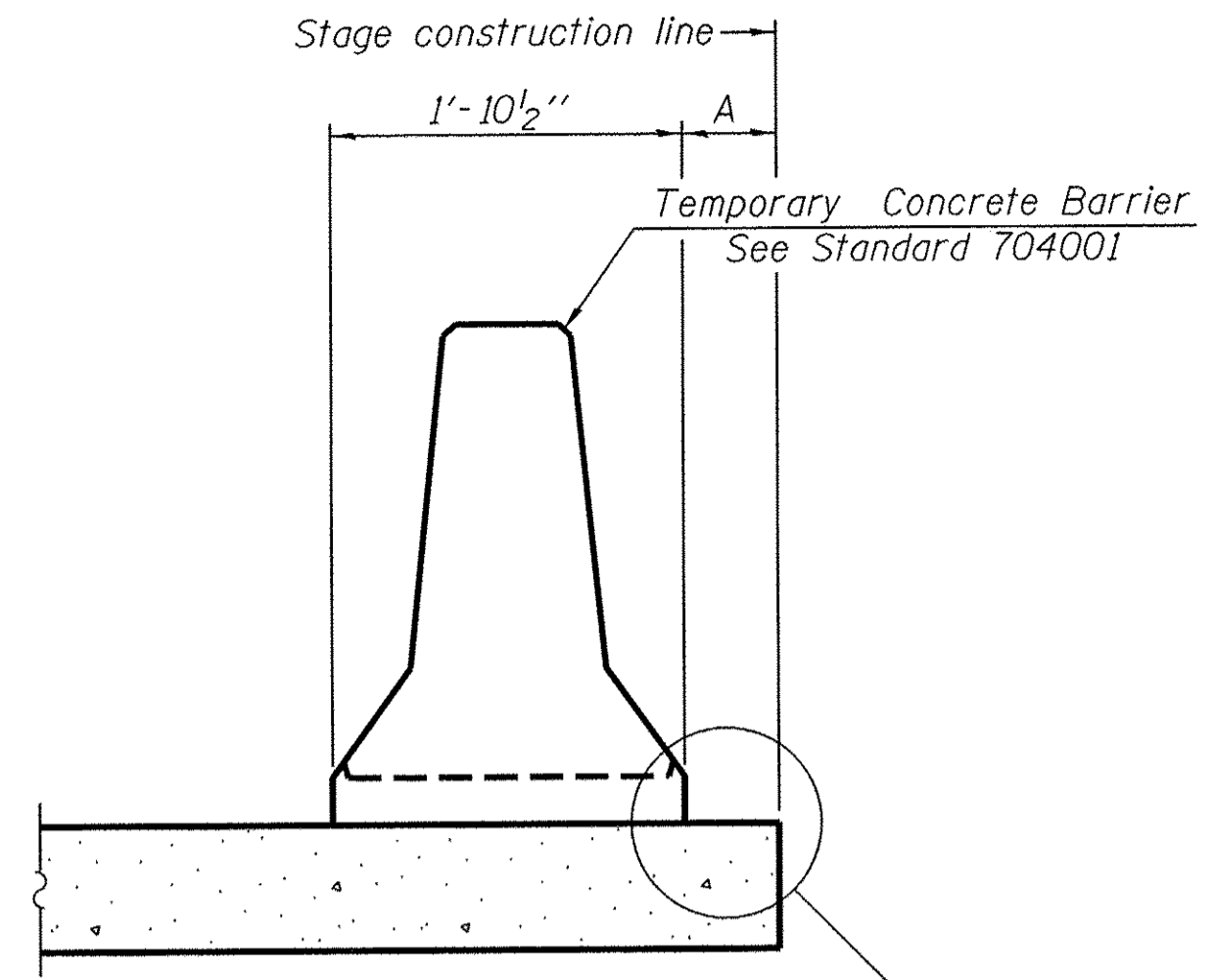
NOTES:

1. All staging cross sections are looking North.
2. Hatched area indicates Removal of Existing Structures.
3. See roadway plans for quantity of Temporary Concrete Barrier.
4. See sheet 4 of 24 for details of Temporary Concrete Barrier.
5. Removal of existing bridge railing and bituminous wearing surface is included with Removal of Existing Structures.
6. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

FILE NAME = M:\Projects\2013\1302282 Bliss Phil\cadd\Structural\Drawings\0453030-003-Stage Const Details.dgn

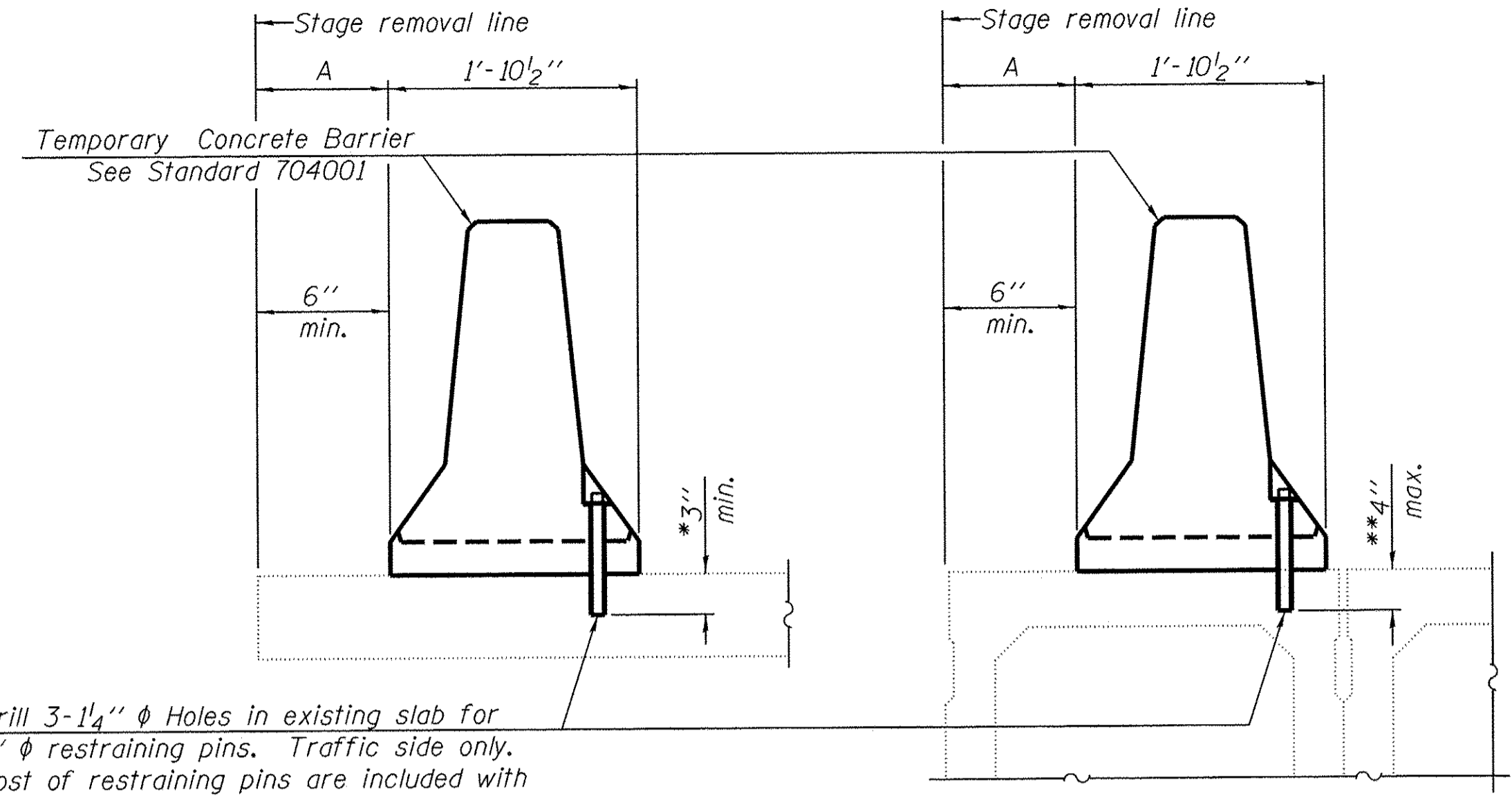
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	98
FED. ROAD DIST. NO.			FED. AID PROJECT	
			CONTRACT NO. 61D20	



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I or Detail II. No restraint is required when "A" is greater than 3'-1".

NEW SLAB



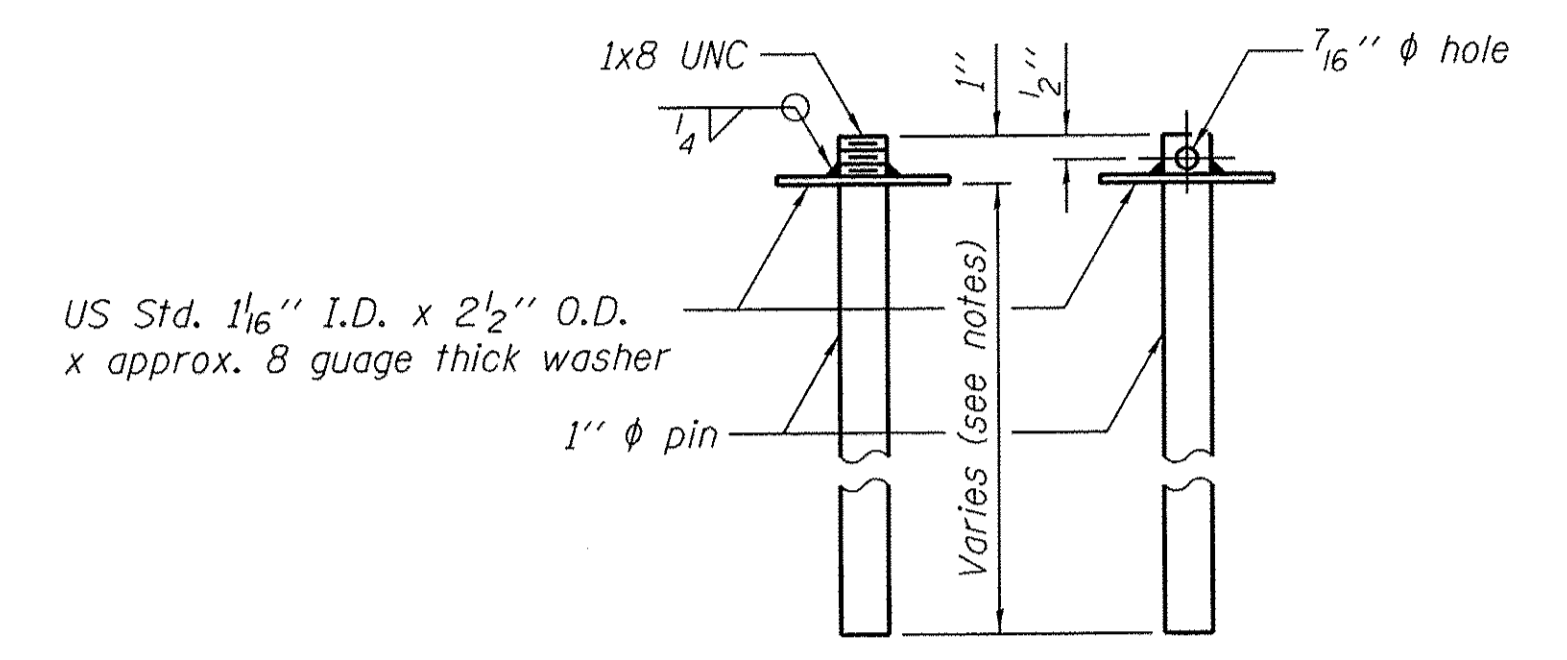
Drill 3-1 1/4" ϕ Holes in existing slab for 1" ϕ restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

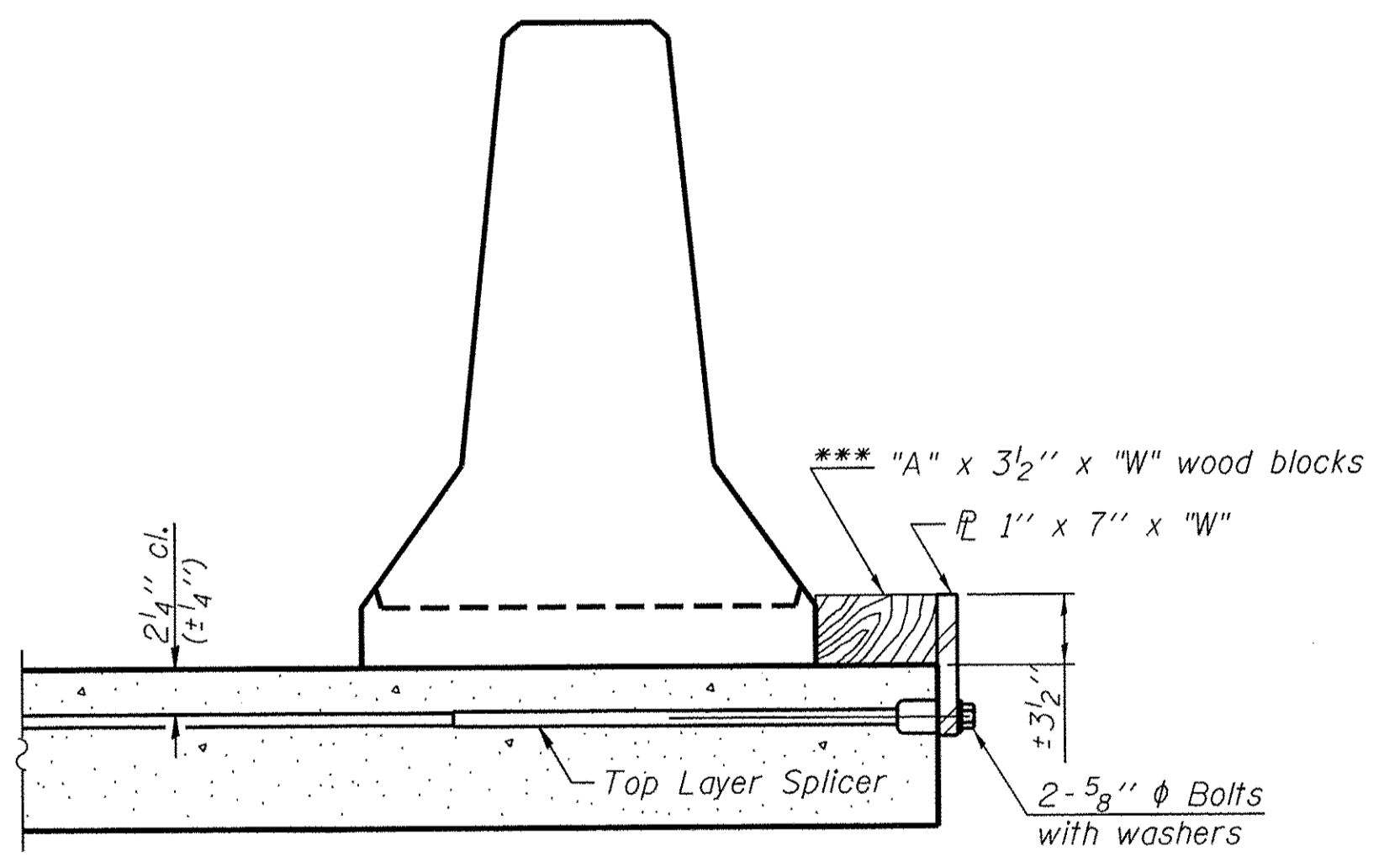
EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

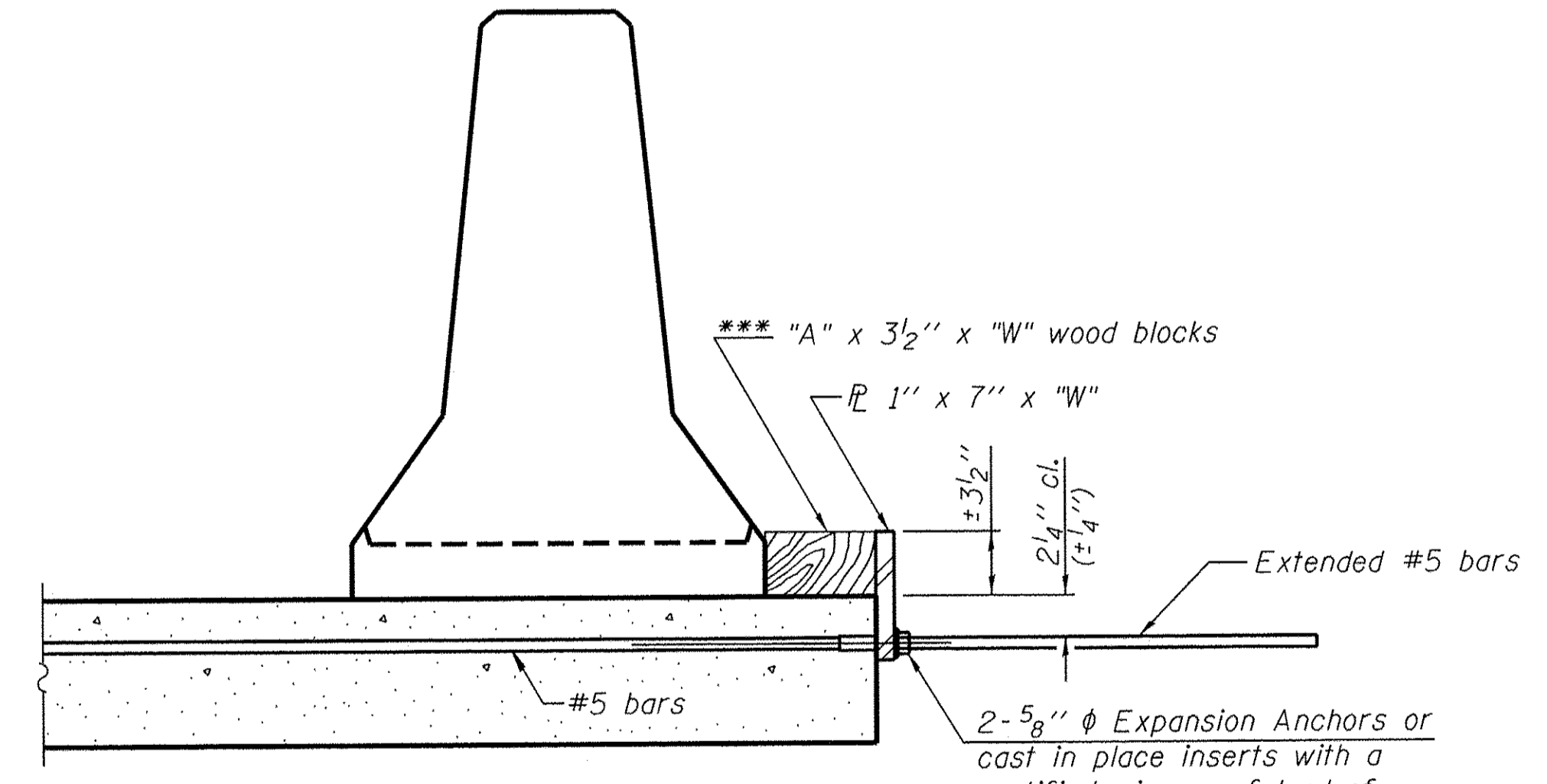
* Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.
 ** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



RESTRAINING PIN



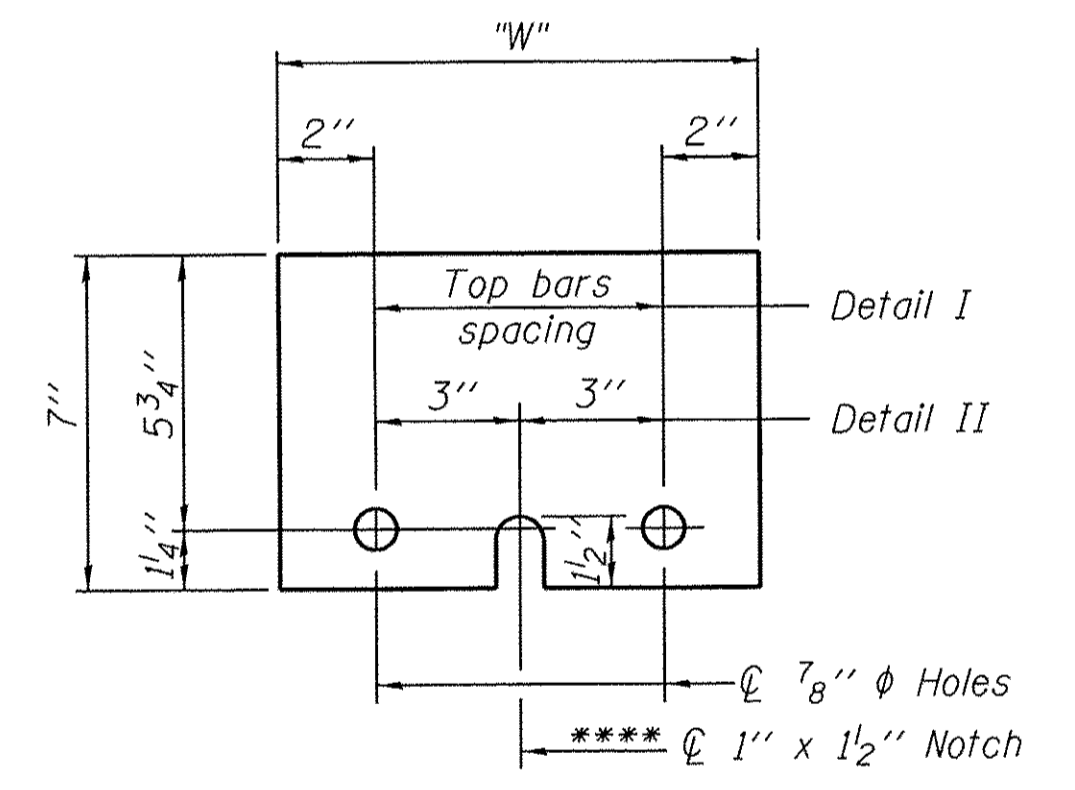
DETAIL I



DETAIL II

RETAINER ASSEMBLY

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



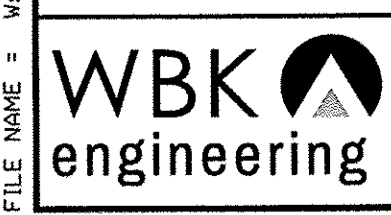
STEEL RETAINER 1" x 7" x "W"

**** Required only with Detail II

NOTES

Detail I - With Bar Splicer or Couplers:
 Connect one (1) 1" x 7" x "W" steel \bar{r} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{c} of each barrier panel.
 Detail II - With Extended Reinforcement Bars:
 Connect one (1) 1" x 7" x "W" steel \bar{r} to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{c} of each barrier panel.
 Cost of retainer assembly is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

FILE NAME = I:\Projects\2013\10282_Bias_Phil\RoadStructure\Drawings\0453030-004-Temporary Concrete Barrier.dgn



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 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

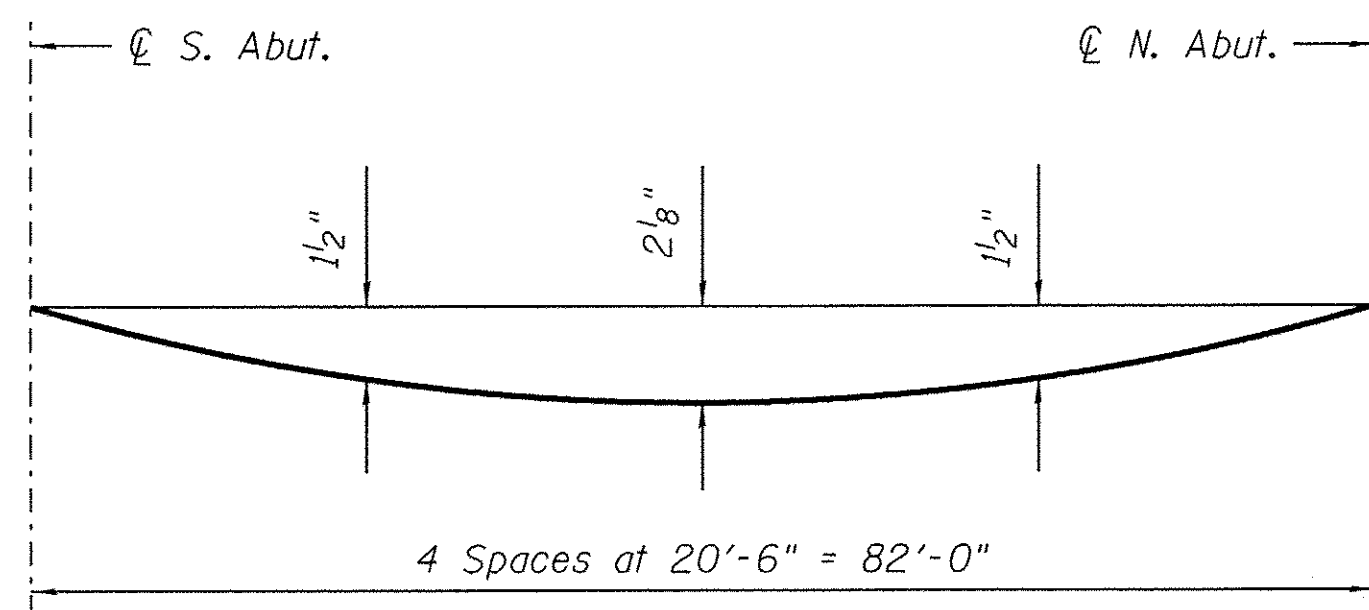
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
 STRUCTURE NO. 045-3030**

SHEET NO. 4 OF 24 SHEETS

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 99
FED. ROAD DIST. NO.		FED. AID PROJECT CONTRACT NO. 61D20		

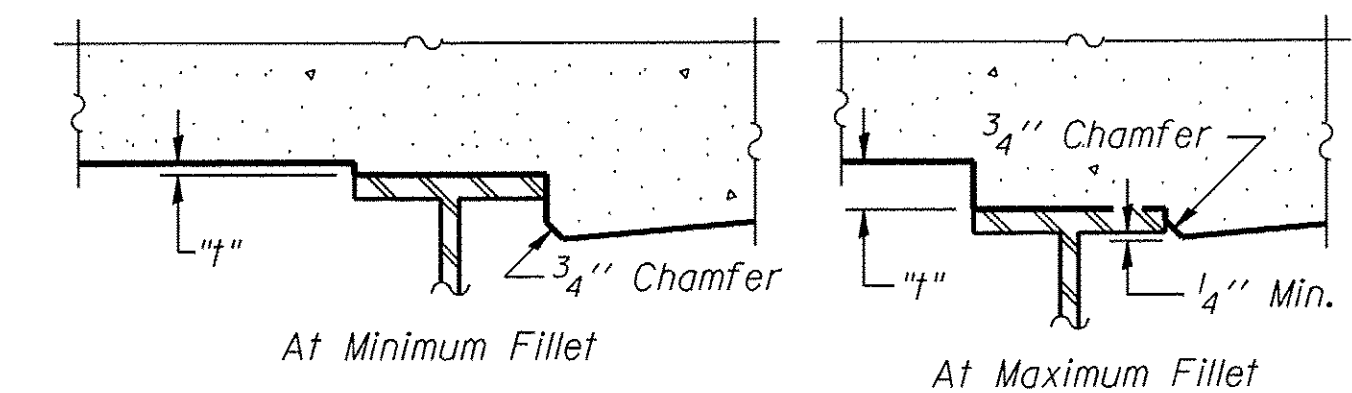


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

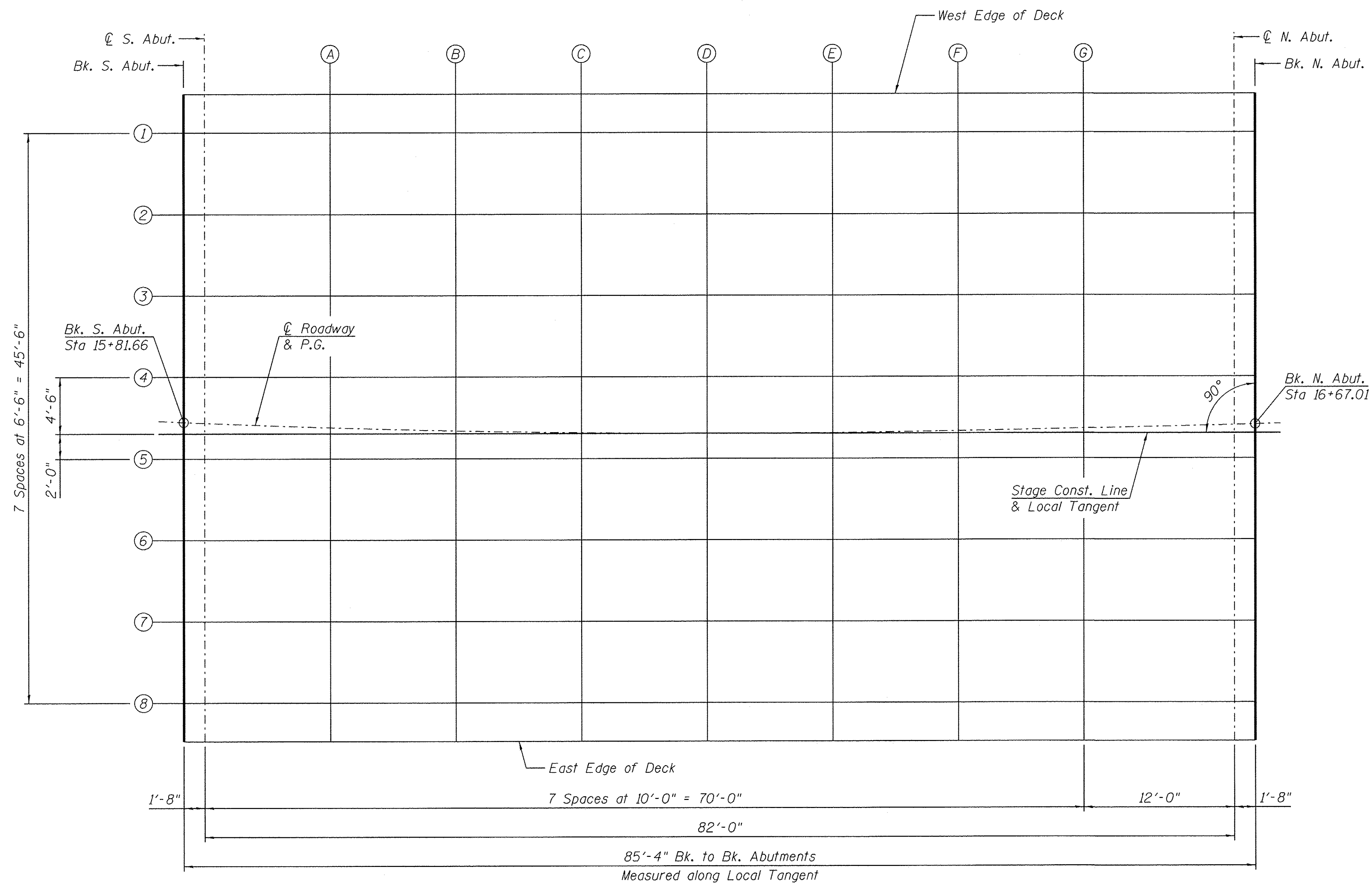
Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections on Sheet 6 of 24.



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

FILLET HEIGHTS



FILE NAME = M:\Projects\2013\130262 Bliss PH1\cadd\Structure\1\0453030-005-Top of Slab Plan.dgn

WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 62174
 (630) 443-7755

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PLOT DATE = 10/24/2016	CHECKED - DLS	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB PLAN
 STRUCTURE NO. 045-3030**

SHEET NO. 5 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	100
CONTRACT NO. 61D20				
FED. ROAD DIST. NO.		FED. AID PROJECT		

BEAM 1

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theor. Grade Elevations Adjusted for DL Deflection. Rows include Bk S Abut, Q Brg S Abut, and various points A-G.

BEAM 2

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theor. Grade Elevations Adjusted for DL Deflection. Rows include Bk S Abut, Q Brg S Abut, and various points A-G.

BEAM 3

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theor. Grade Elevations Adjusted for DL Deflection. Rows include Bk S Abut, Q Brg S Abut, and various points A-G.

BEAM 4

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theor. Grade Elevations Adjusted for DL Deflection. Rows include Bk S Abut, Q Brg S Abut, and various points A-G.

BEAM 5

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theor. Grade Elevations Adjusted for DL Deflection. Rows include Bk S Abut, Q Brg S Abut, and various points A-G.

BEAM 6

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theor. Grade Elevations Adjusted for DL Deflection. Rows include Bk S Abut, Q Brg S Abut, and various points A-G.

BEAM 7

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theor. Grade Elevations Adjusted for DL Deflection. Rows include Bk S Abut, Q Brg S Abut, and various points A-G.

BEAM 8

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theor. Grade Elevations Adjusted for DL Deflection. Rows include Bk S Abut, Q Brg S Abut, and various points A-G.

STATIONING LINE & PGL

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theor. Grade Elevations Adjusted for DL Deflection. Rows include Bk S Abut, Q Brg S Abut, and various points A-G.

STAGE CONSTRUCTION LINE & LOCAL TANGENT

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theor. Grade Elevations Adjusted for DL Deflection. Rows include Bk S Abut, Q Brg S Abut, and various points A-G.

EAST EDGE OF DECK

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theor. Grade Elevations Adjusted for DL Deflection. Rows include Bk S Abut, Q Brg S Abut, and various points A-G.

WEST EDGE OF DECK

Table with 5 columns: Location, Station, Offset, Theoretical Grade Elevations, Theor. Grade Elevations Adjusted for DL Deflection. Rows include Bk S Abut, Q Brg S Abut, and various points A-G.

FILE NAME = M:\Projects\2013\10282 B1as PH\Lead\Structure\1\045282-006-Top of Slab Elevations.dgn



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116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

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CHECKED - DLS
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REVISD -
CHECKED - DLS
REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 045-3030

SHEET NO. 6 OF 24 SHEETS

F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
520 08-00058-02-BR KANE 218 101
CONTRACT NO. 61D20
FED. ROAD DIST. NO. FED. AID PROJECT

WEST EDGE OF CURB

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pvmf.	15+50.72	-25.57	693.98
A1	15+61.01	-25.50	693.78
A2	15+71.30	-25.31	693.58
N. End South Appr. Pvmf.	15+81.61	-24.61	693.40

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pvmf.	15+50.92	-23.00	694.08
A1	15+61.18	-23.00	693.88
A2	15+71.43	-23.00	693.67
N. End South Appr. Pvmf.	15+81.68	-23.00	693.47

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pvmf.	15+51.29	-18.00	694.27
A1	15+61.50	-18.00	694.07
A2	15+71.70	-18.00	693.87
N. End South Appr. Pvmf.	15+81.90	-18.00	693.66

CL ROADWAY & PGL

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pvmf.	15+52.61	0.00	694.97
A1	15+62.63	0.00	694.77
A2	15+72.65	0.00	694.57
N. End South Appr. Pvmf.	15+82.66	0.00	694.37

LOCAL TANGENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pvmf.	15+52.80	2.56	695.07
A1	15+62.75	1.90	694.84
A2	15+72.72	1.33	694.62
N. End South Appr. Pvmf.	15+82.70	0.87	694.40

EAST EDGE OF PAVEMENT

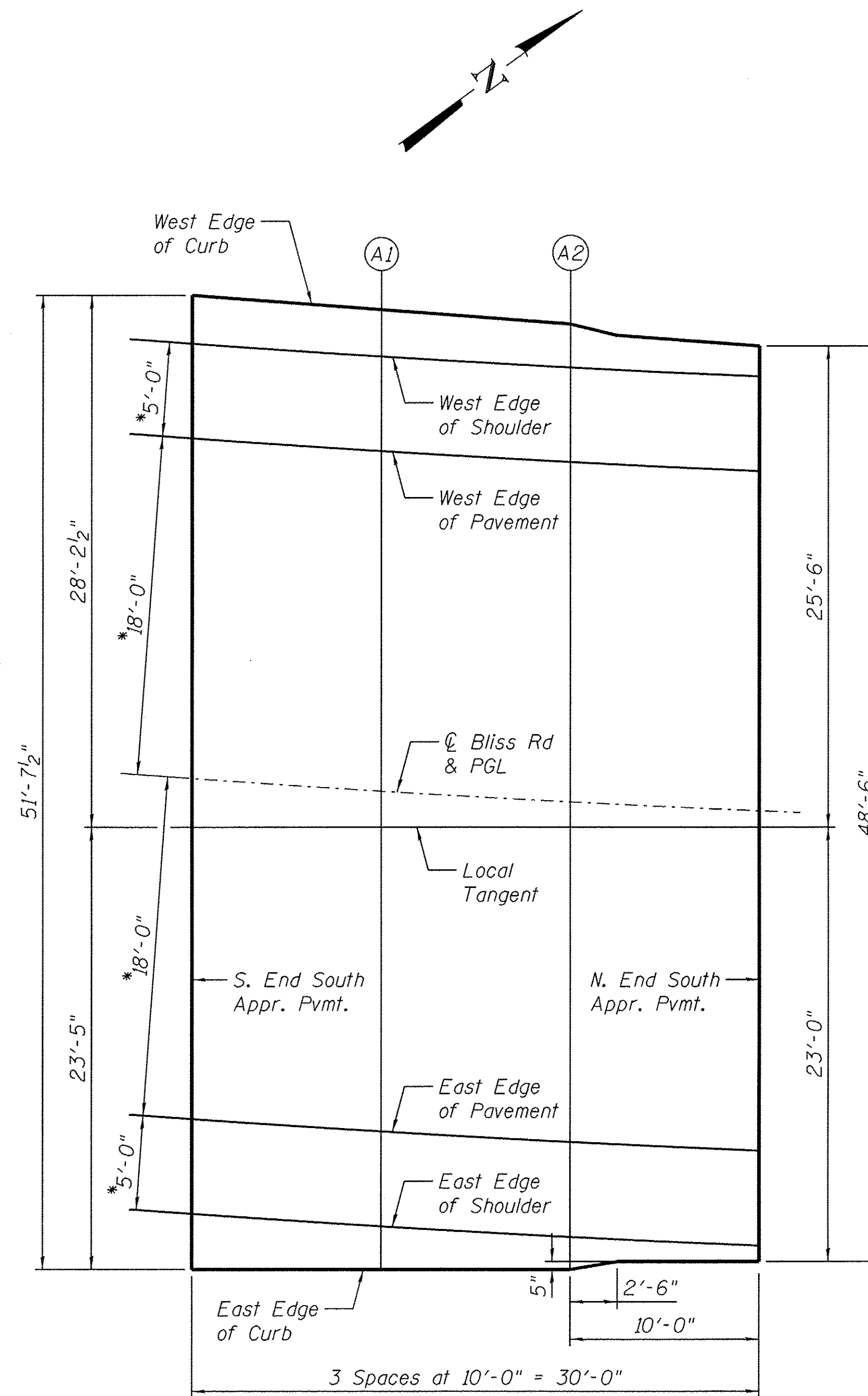
Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pvmf.	15+53.88	18.00	695.66
A1	15+63.73	18.00	695.47
A2	15+73.56	18.00	695.27
N. End South Appr. Pvmf.	15+83.40	18.00	695.07

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pvmf.	15+54.22	23.00	695.86
A1	15+64.02	23.00	695.66
A2	15+73.81	23.00	695.46
N. End South Appr. Pvmf.	15+83.60	23.00	695.27

EAST EDGE OF CURB

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Pvmf.	15+54.43	25.92	695.97
A1	15+64.16	25.27	695.75
A2	15+73.90	24.72	695.53
N. End South Appr. Pvmf.	15+83.63	23.85	695.30



SOUTH APPROACH PLAN

*Dimensions measured radially

FILE NAME = W:\Projects\2013\1302282 - Bliss PH\cadd\Structure\Drawings\453030-007-Top of South Approach Slab Elevations.dgn

WEST EDGE OF CURB

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pvmt.	16+66.63	-24.82	691.69
A3	16+76.74	-24.96	691.49
A4	16+86.82	-24.65	691.30
N. End North Appr. Pvmt.	16+96.90	-24.31	691.11

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pvmt.	16+66.60	-23.00	691.77
A3	16+76.69	-23.00	691.57
A4	16+86.77	-23.00	691.36
N. End North Appr. Pvmt.	16+96.85	-23.00	691.16

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pvmt.	16+66.48	-18.00	691.97
A3	16+76.54	-18.00	691.77
A4	16+86.60	-18.00	691.57
N. End North Appr. Pvmt.	16+96.67	-18.00	691.37

☉ ROADWAY & PGL

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pvmt.	16+66.01	0.00	692.70
A3	16+76.02	0.00	692.50
A4	16+86.02	0.00	692.30
N. End North Appr. Pvmt.	16+96.03	0.00	692.10

LOCAL TANGENT

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pvmt.	16+66.00	0.67	692.73
A3	16+75.99	0.94	692.54
A4	16+85.98	1.25	692.35
N. End North Appr. Pvmt.	16+95.97	1.59	692.16

EAST EDGE OF PAVEMENT

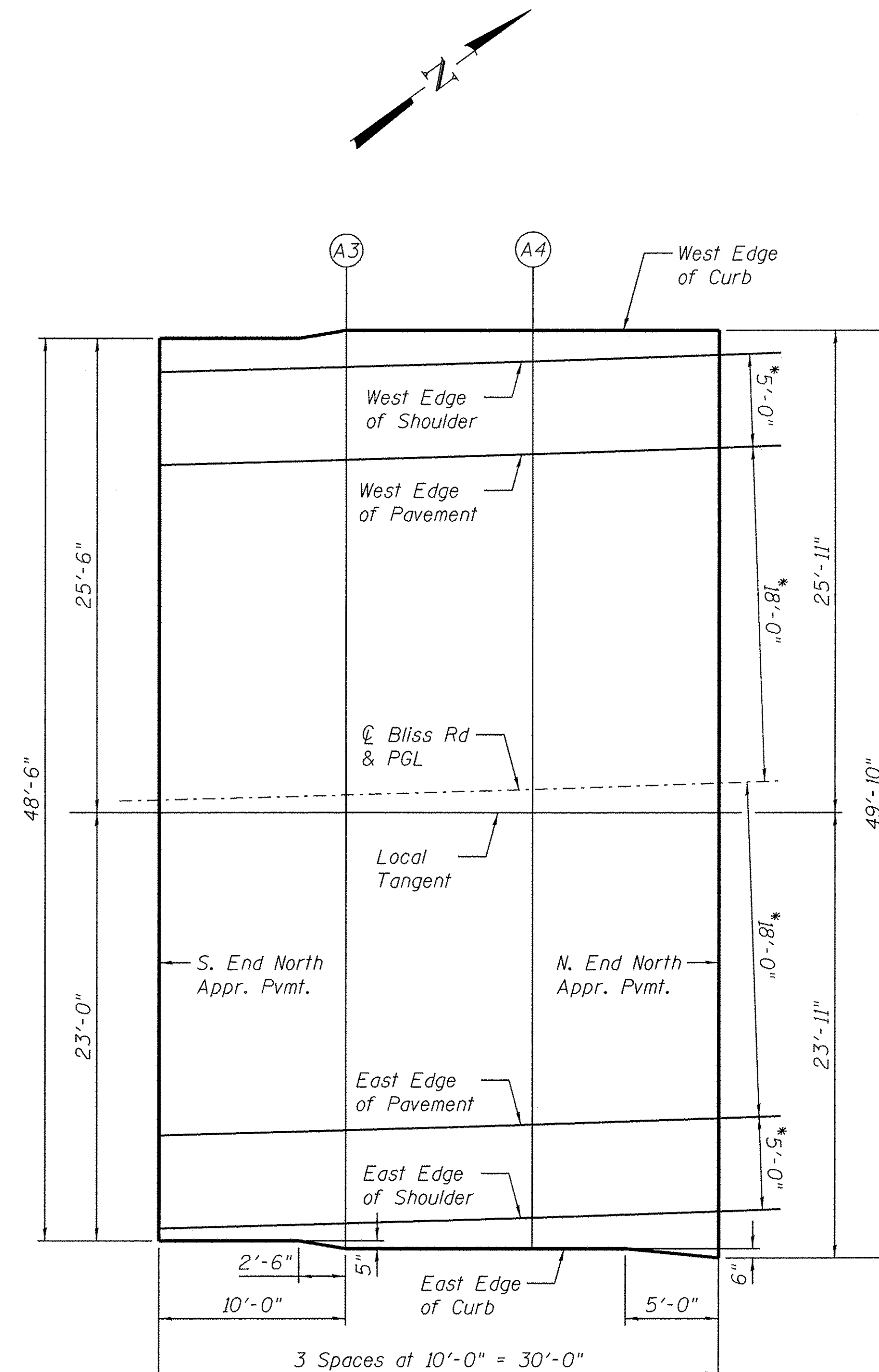
Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pvmt.	16+65.56	18.00	693.43
A3	16+75.50	18.00	693.23
A4	16+85.44	18.00	693.03
N. End North Appr. Pvmt.	16+95.39	18.00	692.83

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pvmt.	16+65.43	23.00	693.63
A3	16+75.36	23.00	693.43
A4	16+85.29	23.00	693.23
N. End North Appr. Pvmt.	16+95.22	23.00	693.04

EAST EDGE OF CURB

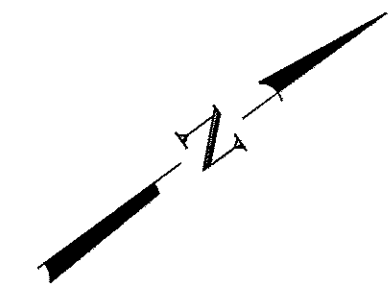
Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Pvmt.	16+65.41	23.66	693.66
A3	16+75.32	24.35	693.49
A4	16+85.23	24.65	693.30
N. End North Appr. Pvmt.	16+95.13	25.49	693.14



NORTH APPROACH PLAN

*Dimensions measured radially

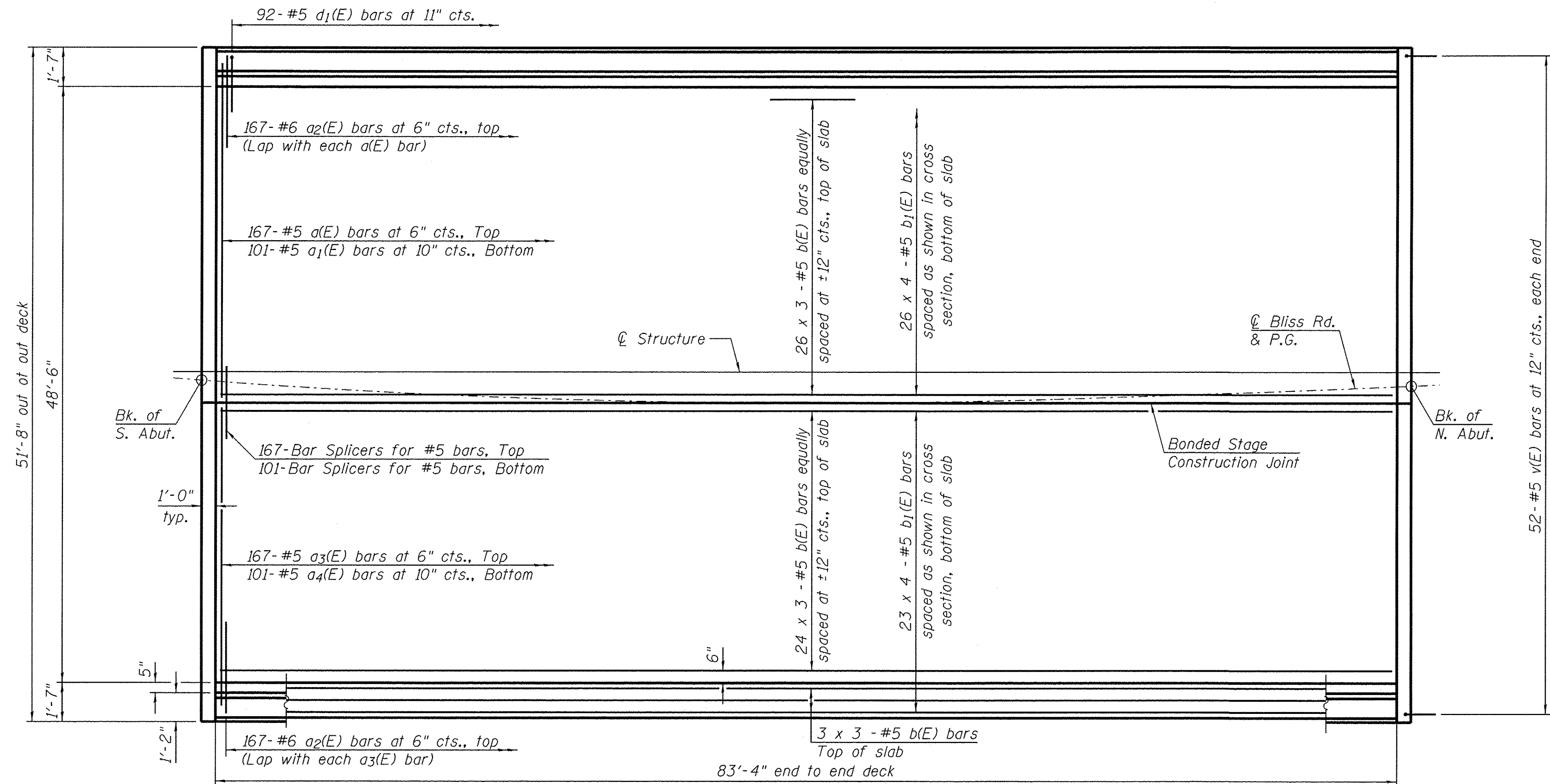
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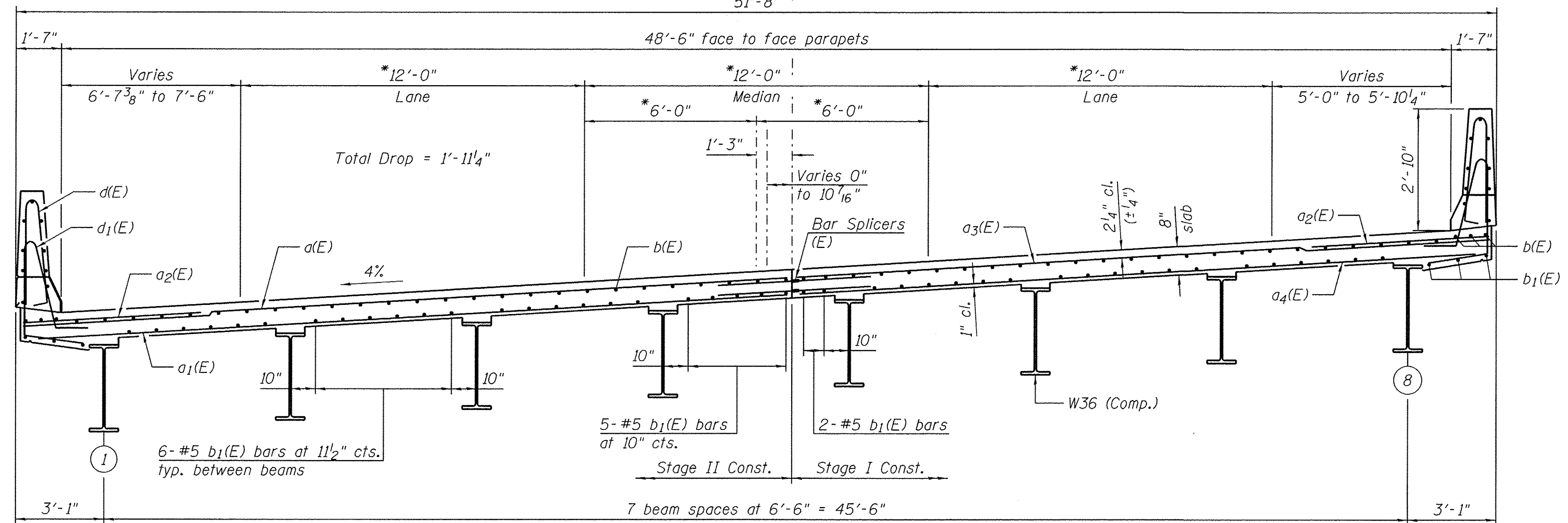
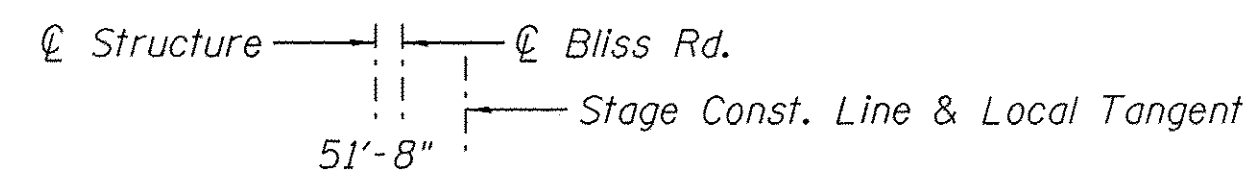
MIN. LAP LENGTH

- #5 Bars = 2'-7"
- #6 Bars = 3'-1"

Notes:
 See Sheet 10 of 24 for superstructure details, parapet reinforcement and Bill of Material.
 Bars indicated thus 23 x 3-#5 etc. indicates 23 lines of bars with 3 lengths per line.



PLAN



CROSS SECTION

(Looking North)
 *Dimension Measured Radially

FILE NAME: H:\Projects\2013\1302282 - Bliss Rd\Road\Structure\01.dgn\0453028-08-Substructure.dgn



WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

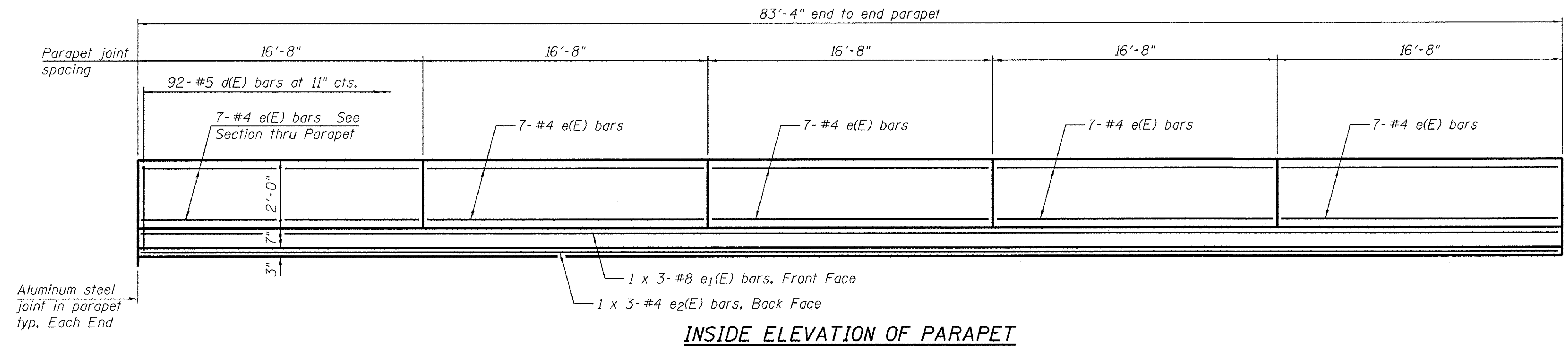
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

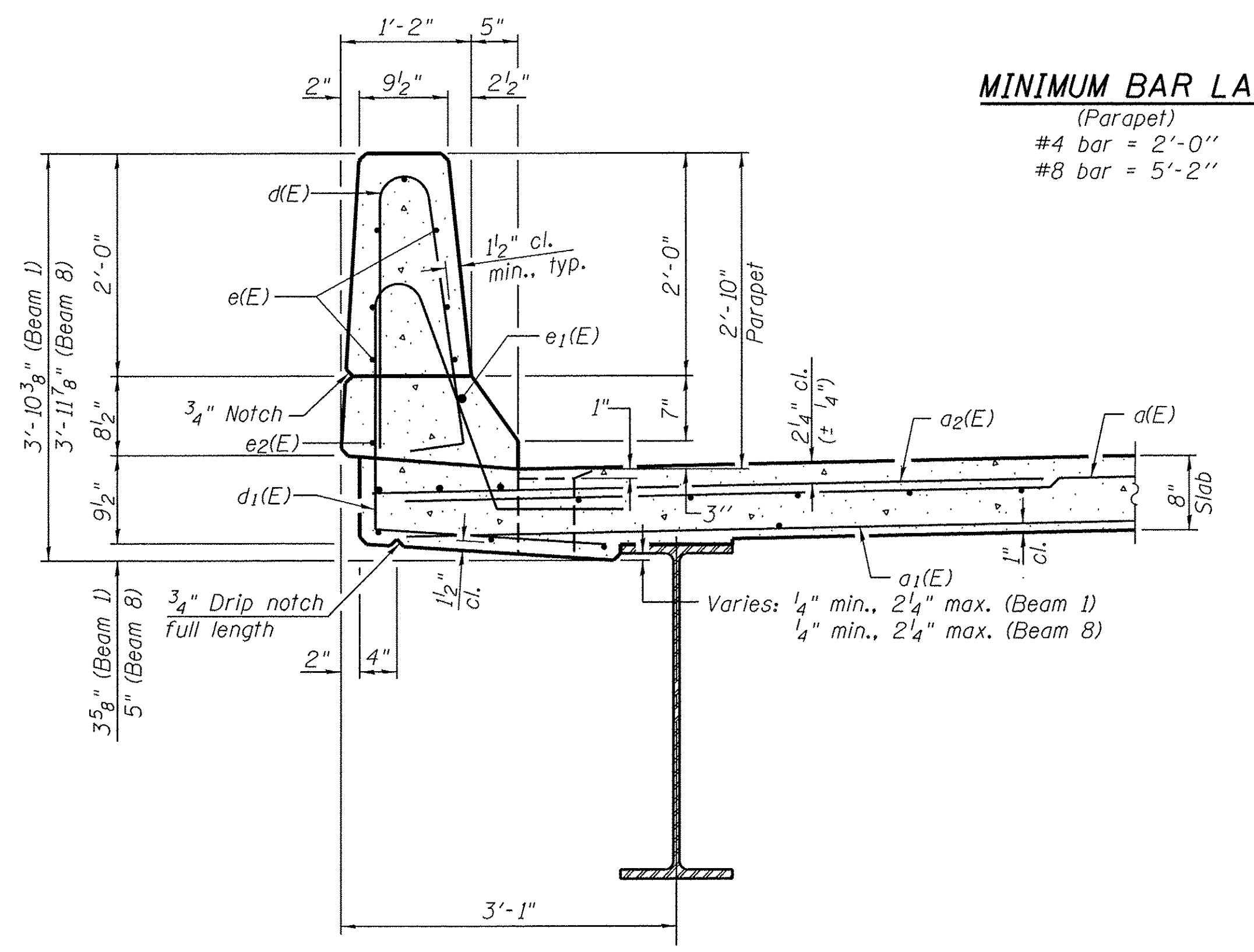
SUPERSTRUCTURE
STRUCTURE NO. 045-3030

SHEET NO. 9 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	104
CONTRACT NO. 61D20				
FED. ROAD DIST. NO.		FED. AID PROJECT		



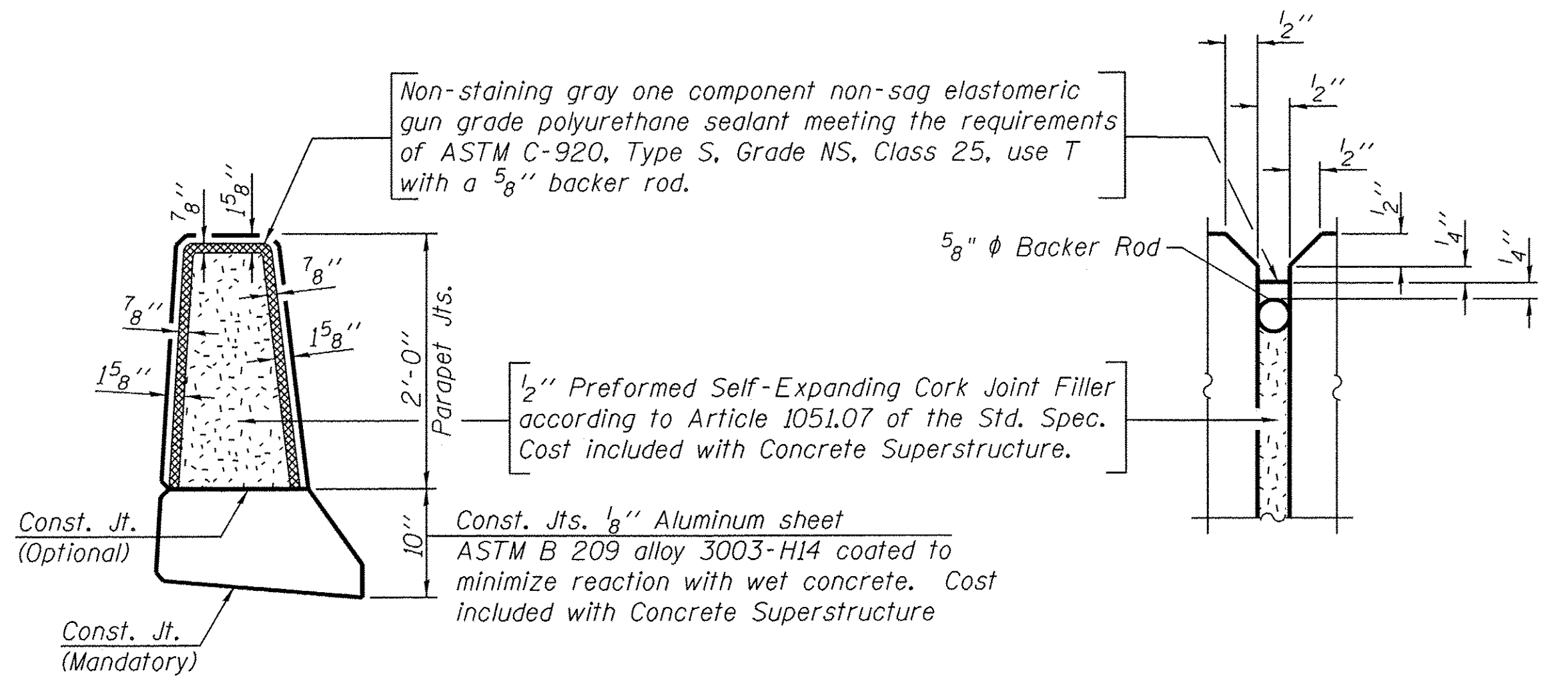
INSIDE ELEVATION OF PARAPET



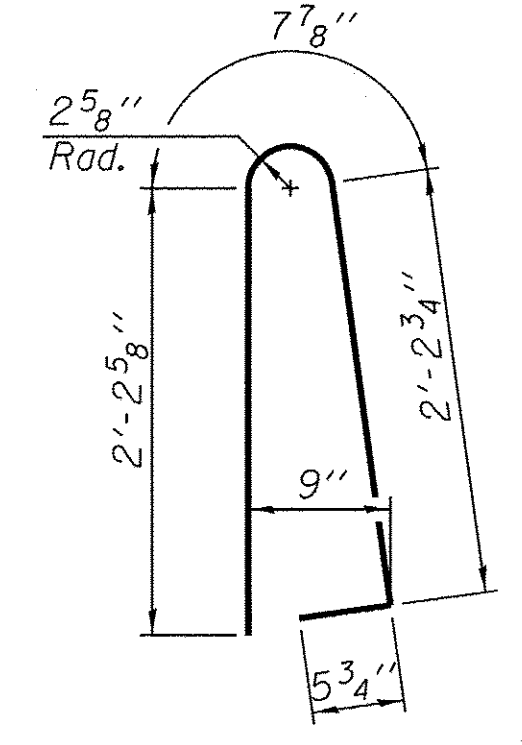
SECTION THRU PARAPET

MINIMUM BAR LAP

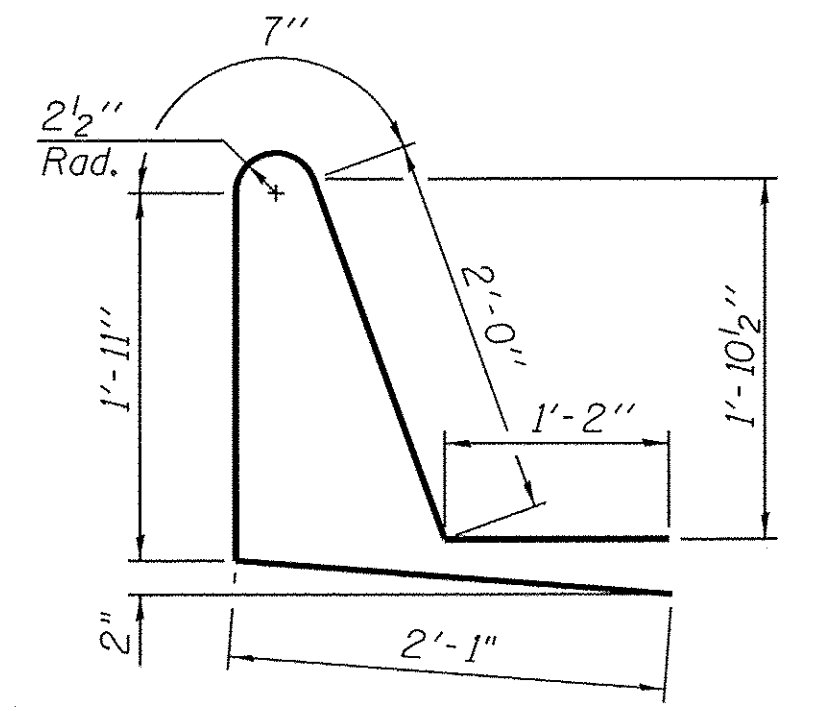
(Parapet)
 #4 bar = 2'-0"
 #8 bar = 5'-2"



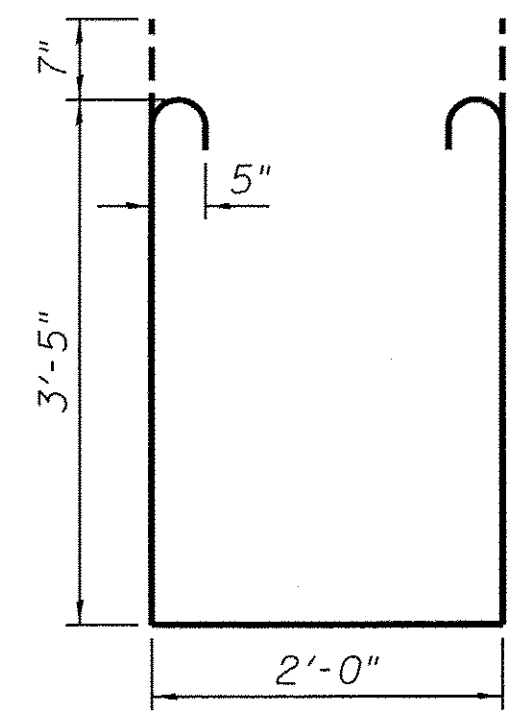
PARAPET JOINT DETAILS



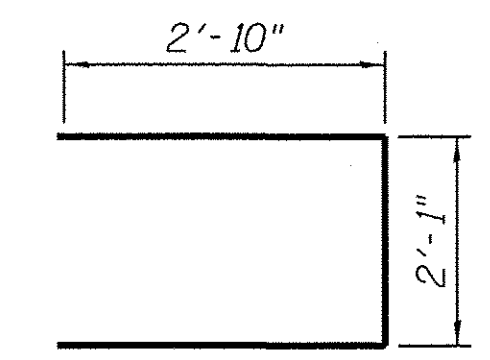
BAR d(E)



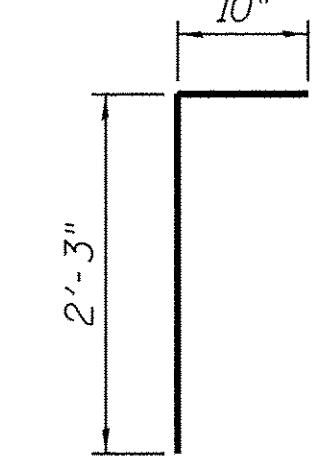
BAR d1(E)



BAR s1(E)



BAR s(E)



BAR v(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	167	#5	26'-8"	—
a1(E)	101	#5	26'-1"	—
a2(E)	334	#6	6'-6"	—
a3(E)	167	#5	24'-2"	—
a4(E)	101	#5	23'-7"	—
b(E)	168	#5	29'-5"	—
b1(E)	196	#5	22'-9"	—
d(E)	184	#5	5'-7"	U
d1(E)	184	#5	7'-9"	U
e(E)	70	#4	16'-4"	—
e1(E)	6	#8	31'-2"	—
e2(E)	6	#4	29'-0"	—
m(E)	8	#6	24'-3"	—
m1(E)	8	#6	26'-9"	—
m2(E)	36	#6	6'-1"	—
m3(E)	6	#6	4'-2"	—
m4(E)	12	#6	2'-8"	—
m5(E)	48	#5	4'-0"	—
s(E)	96	#5	7'-9"	U
s1(E)	96	#5	10'-0"	U
v(E)	104	#5	3'-1"	T
Concrete Superstructure			Cu. Yd.	165.7
Bridge Deck Grooving			Sq. Yd.	431
Protective Coat			Sq. Yd.	519
Reinforcement Bars, Epoxy Coated			Pound	34,430

Bars indicated thus 1 x 3-#8 etc. indicates 1 line of bars with 3 lengths per line.

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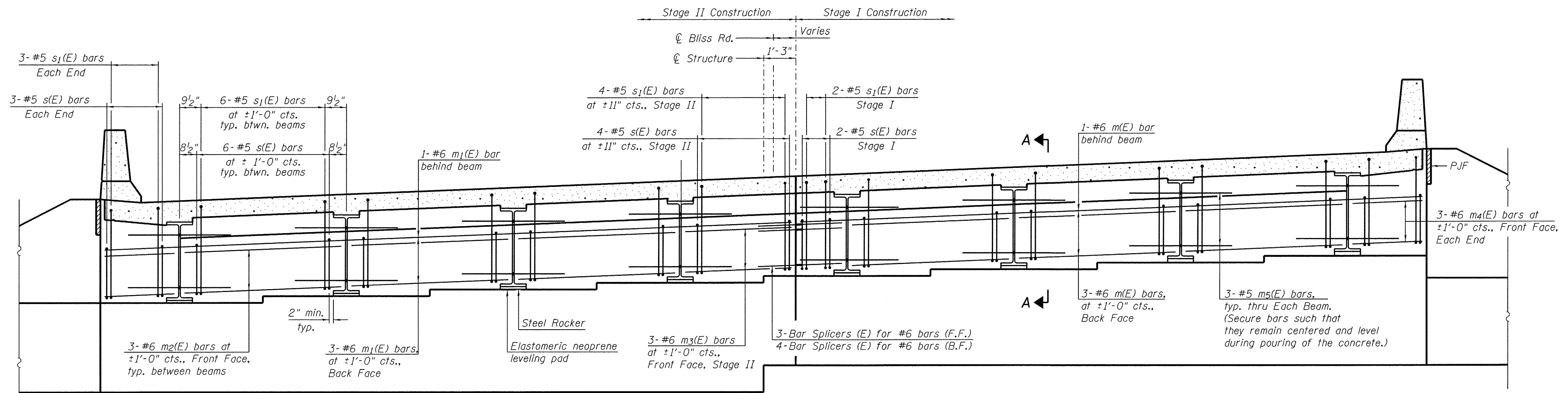
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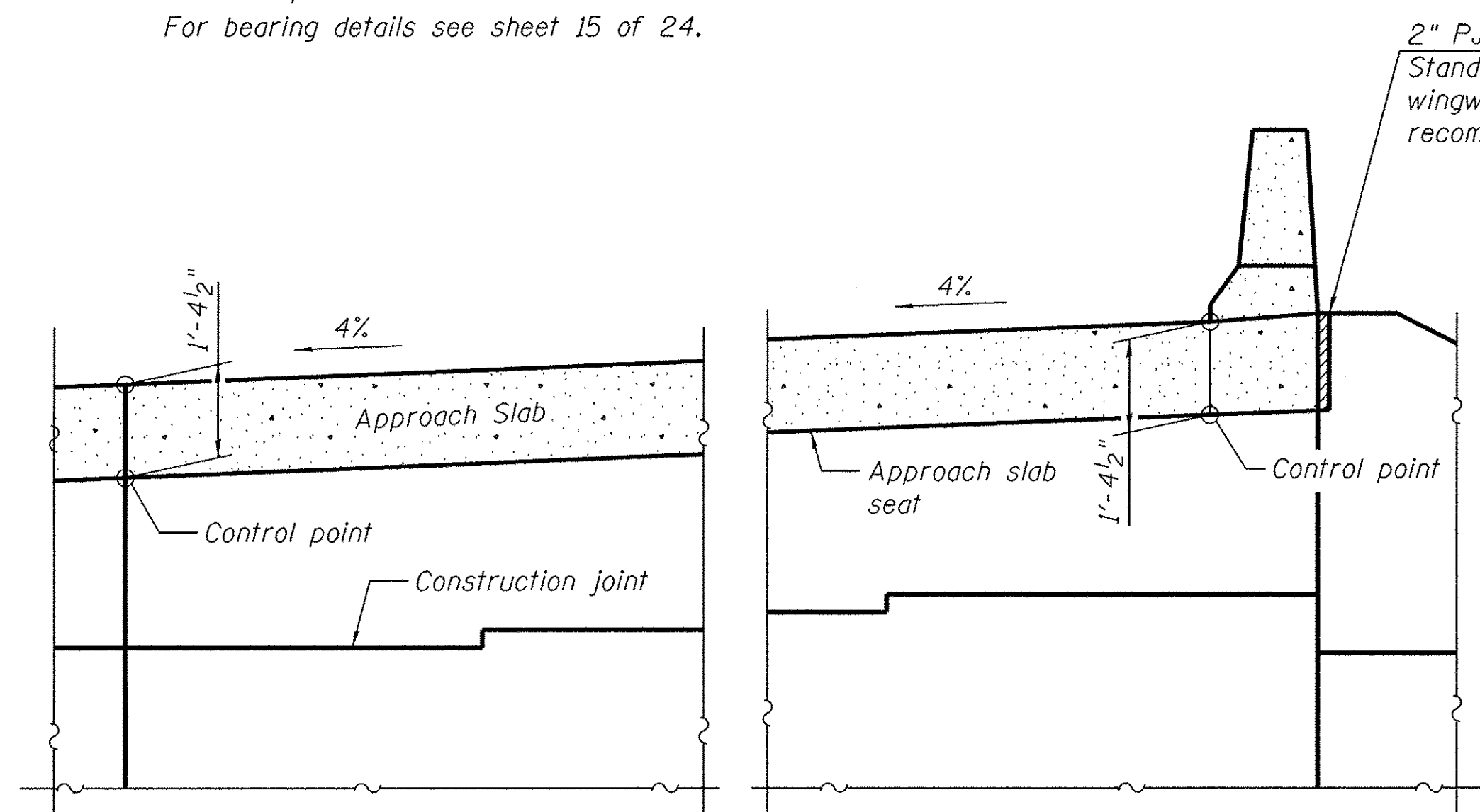
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 045-3030
 SHEET NO. 10 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61D20				
FED. ROAD DIST. NO.	FED. AID PROJECT			

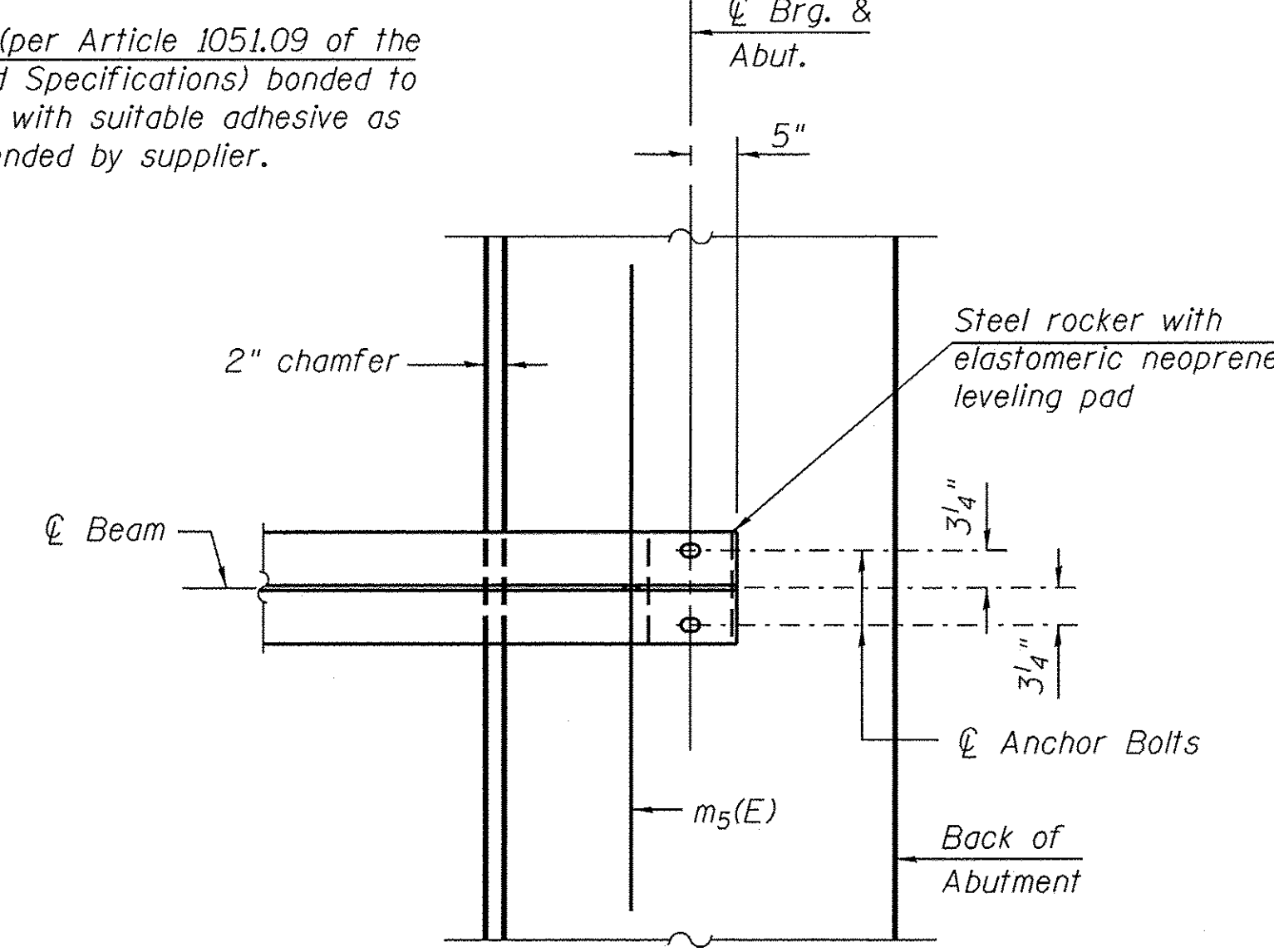


DIAPHRAGM ELEVATION AT ABUTMENT
(Looking north at north abutment, South abutment opposite hand.)

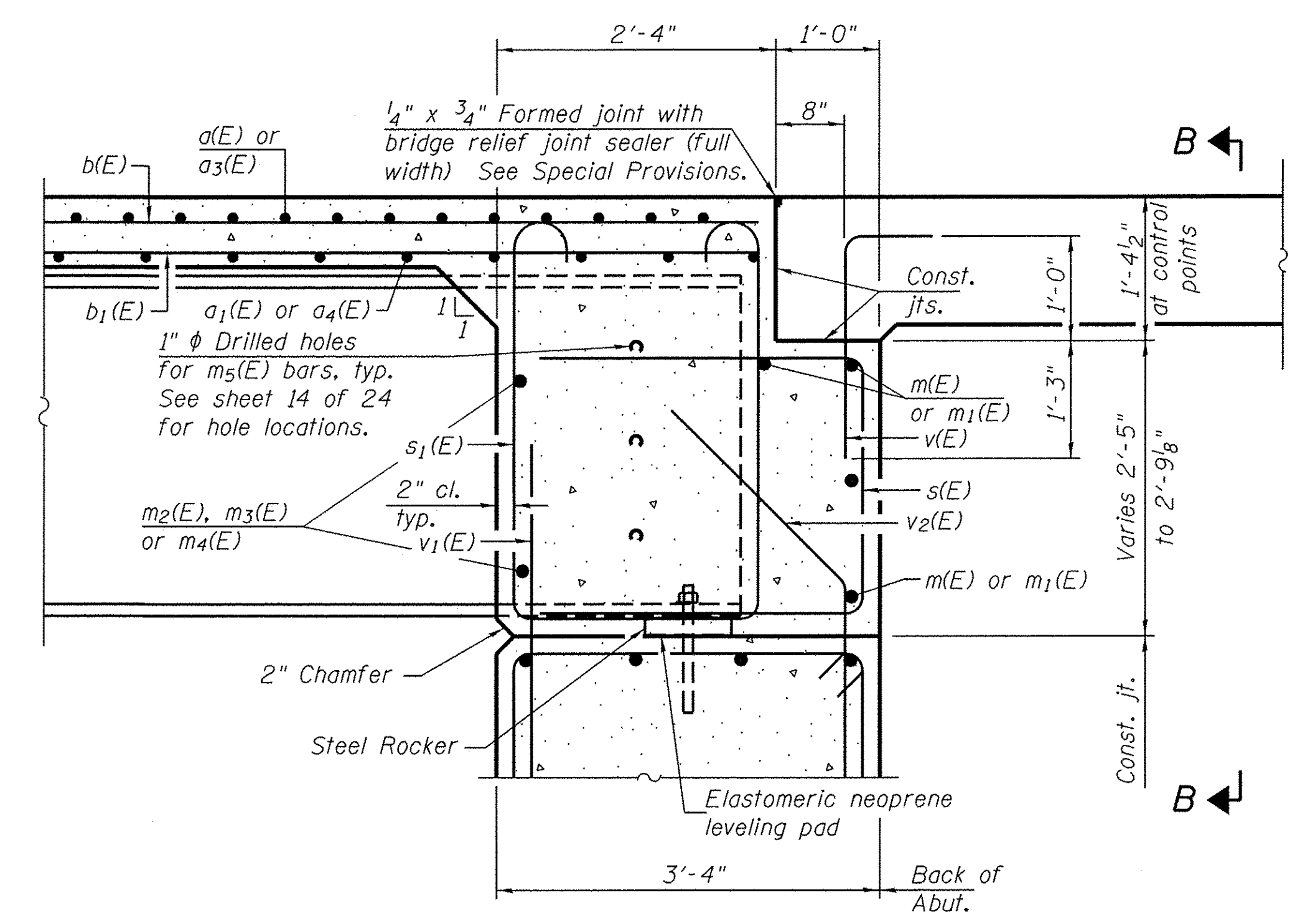
Notes:
 Reinforcement bars in diaphragm are billed with superstructure on sheet 10 of 24.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 10 of 24.
 For details of bars s(E), s1(E) and v(E) see sheet 10 of 24.
 The approach slab seat shall have a constant slope determined from the control points shown.
 For bearing details see sheet 15 of 24.



SECTION B-B



PARTIAL PLAN AT ABUTMENT
(Showing bottom flange of beam)



SECTION A-A

FILE NAME = Mr:Projecta\2013\120282 Bliss Ph:IT\cead\Structure\0453030-011-Diaphragm-Details.dgn

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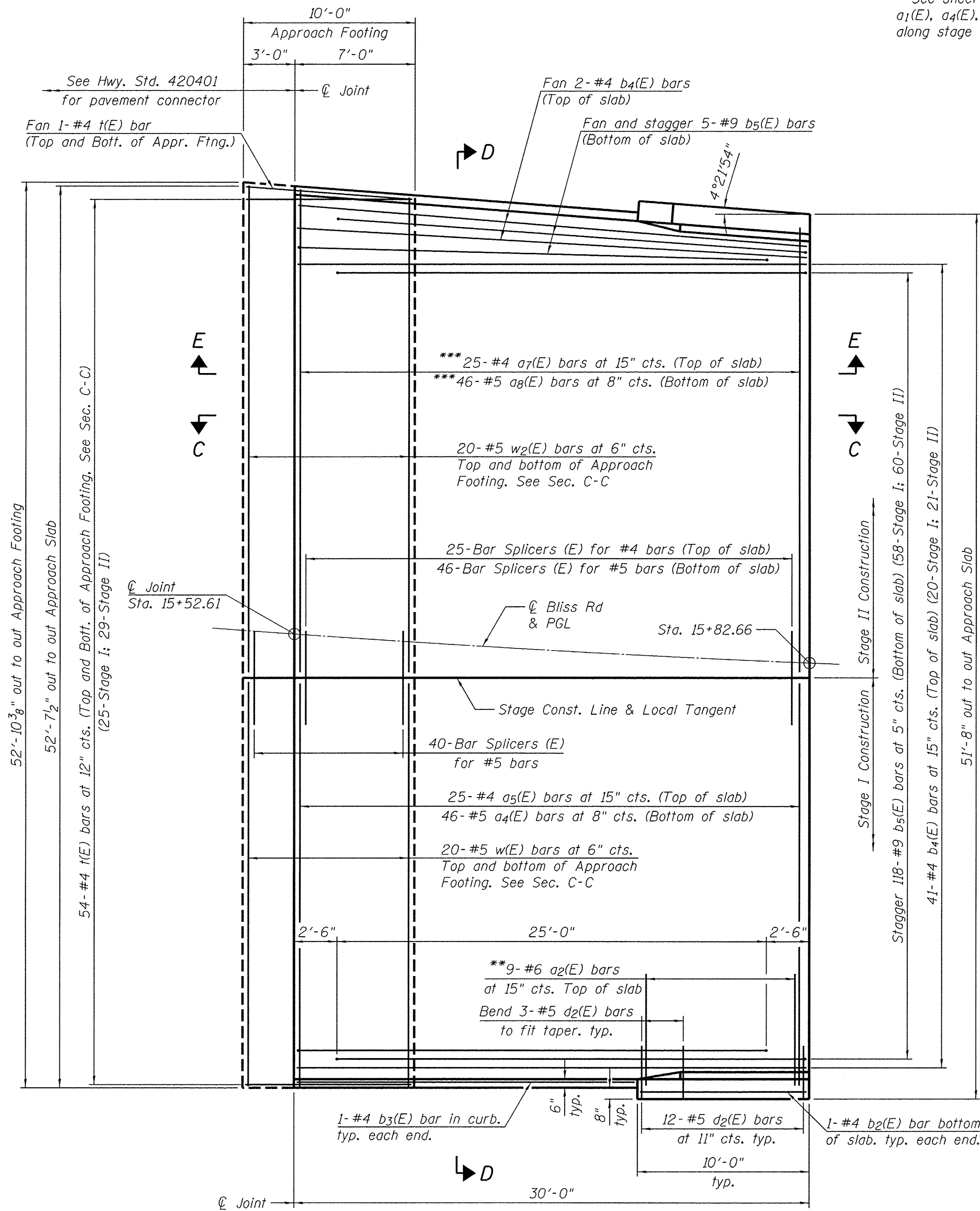
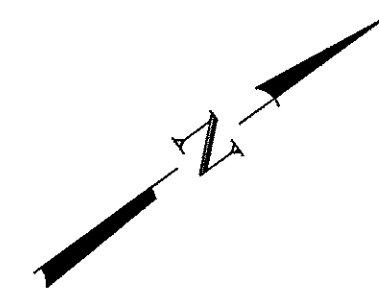
**DIAPHRAGM DETAILS
 STRUCTURE NO. 045-3030**

SHEET NO. 11 OF 24 SHEETS

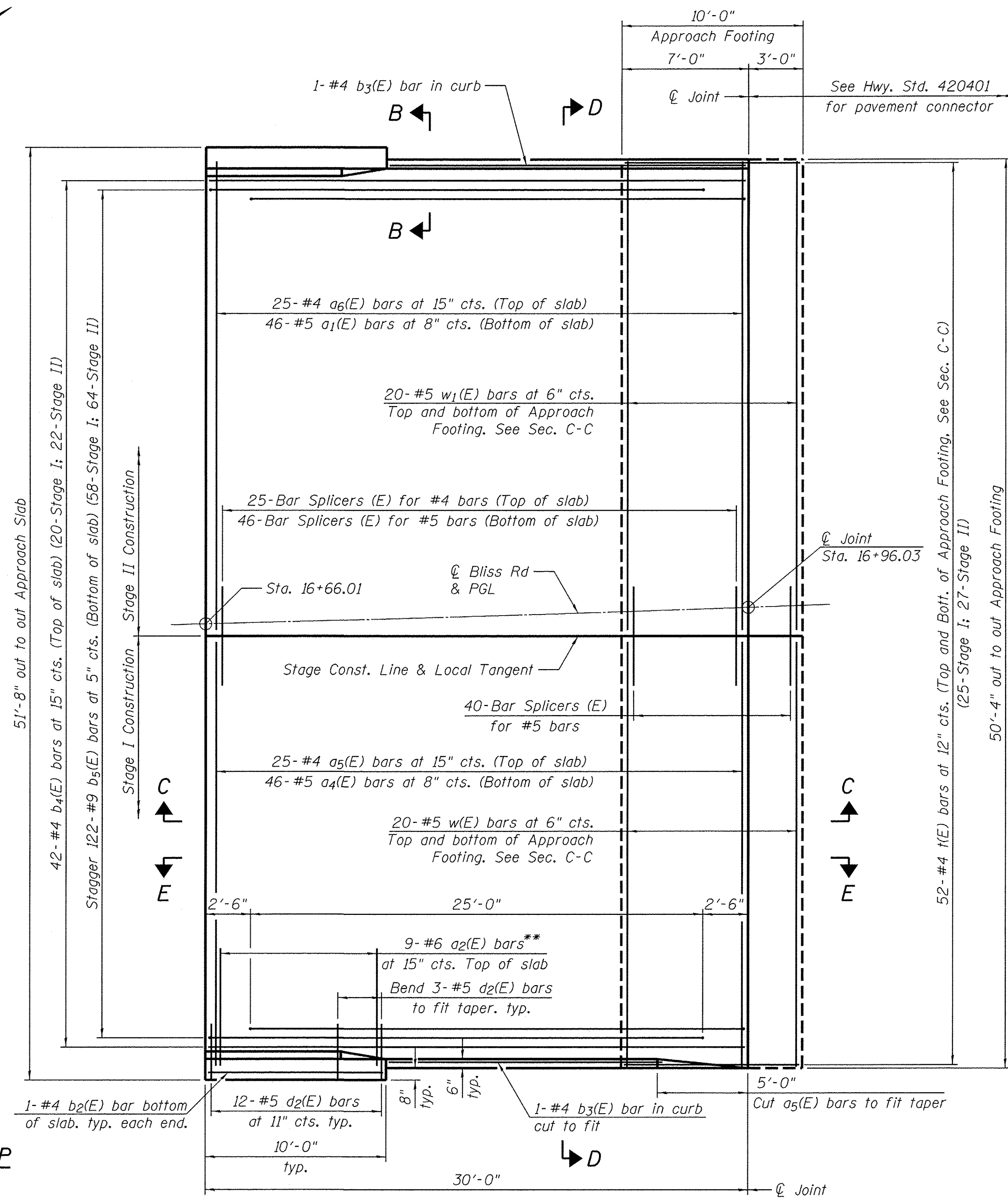
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FED. ROAD DIST. NO.		FED. AID PROJECT		

CONTRACT NO. 61D20

Note:
See sheet 13 of 24 for Sections C-C & D-D and View E-E.
 $a_1(E)$, $a_4(E)$, $a_5(E)$, $a_6(E)$, $a_7(E)$, and $a_8(E)$ bar spacings measured along stage construction and local tangent lines.



PLAN
SOUTH APPROACH SLAB



PLAN
NORTH APPROACH SLAB

MIN. BAR LAP

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

*Tilt #9 #5(E) bars as required to maintain clearance.
** Space between $a_5(E)$, $a_6(E)$ and $a_7(E)$ bars, typ. ea. parapet.
*** Cut bars to fit as needed in field.

(Sheet 1 of 2)

FILE NAME = W:\Projects\2013\130222 Bliss Phl\Road\Structure\02-Brldge Approach Slab Details 1.dgn

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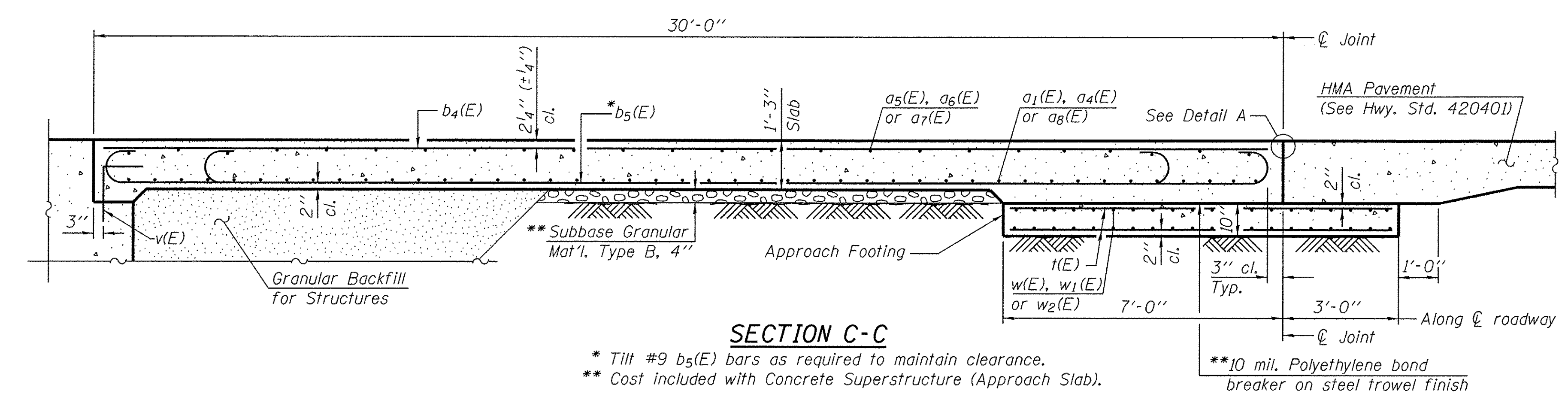
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 045-3030

SHEET NO. 12 OF 24 SHEETS

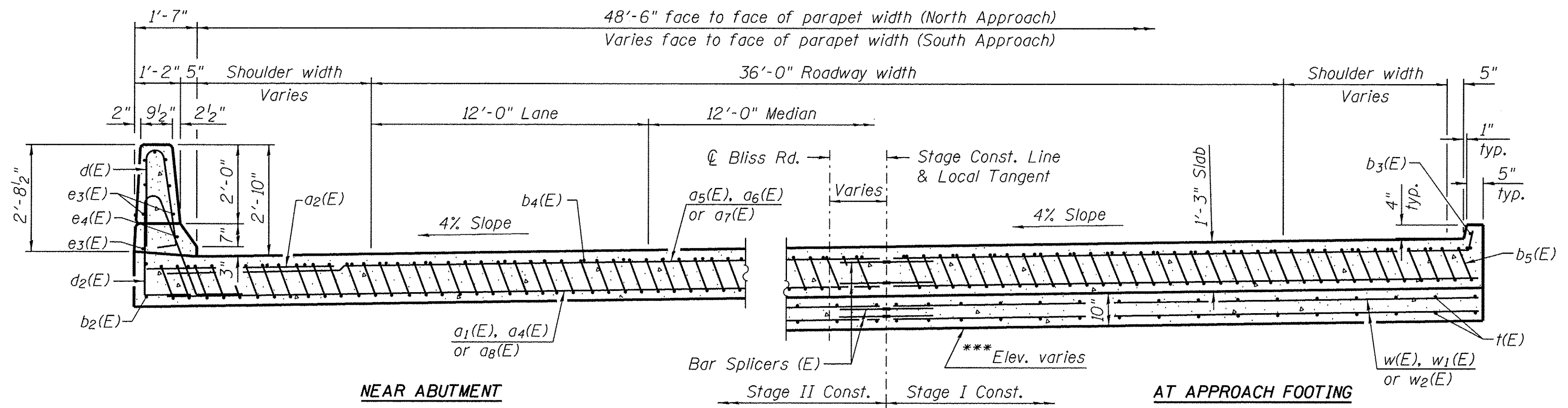
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FED. ROAD DIST. NO.		FED. AID PROJECT		

CONTRACT NO. 61D20

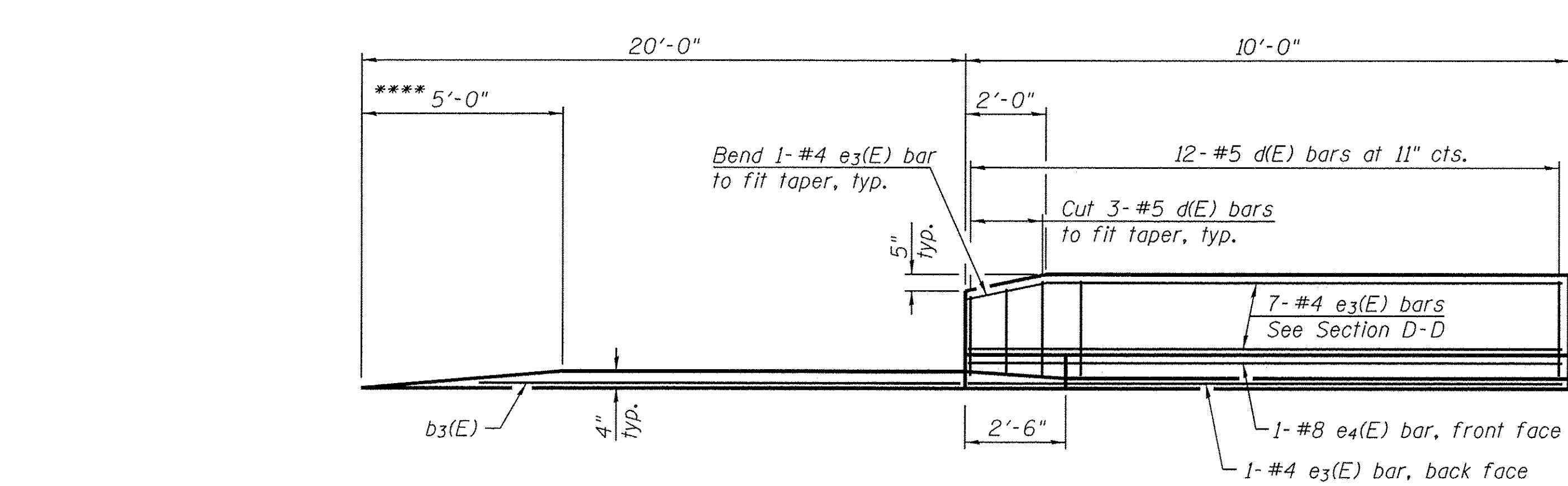
Notes:
 Parapet concrete shall be paid for as Concrete Superstructure.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet 10 of 24.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 24.
 For additional parapet details, see sheet 10 of 24.



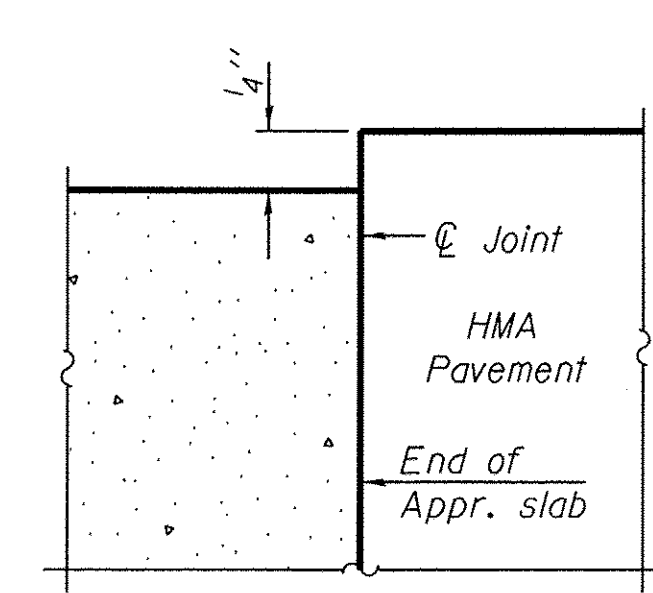
SECTION C-C
 * Tilt #9 b5(E) bars as required to maintain clearance.
 ** Cost included with Concrete Superstructure (Approach Slab).
 *** 10 mil. Polyethylene bond breaker on steel trowel finish



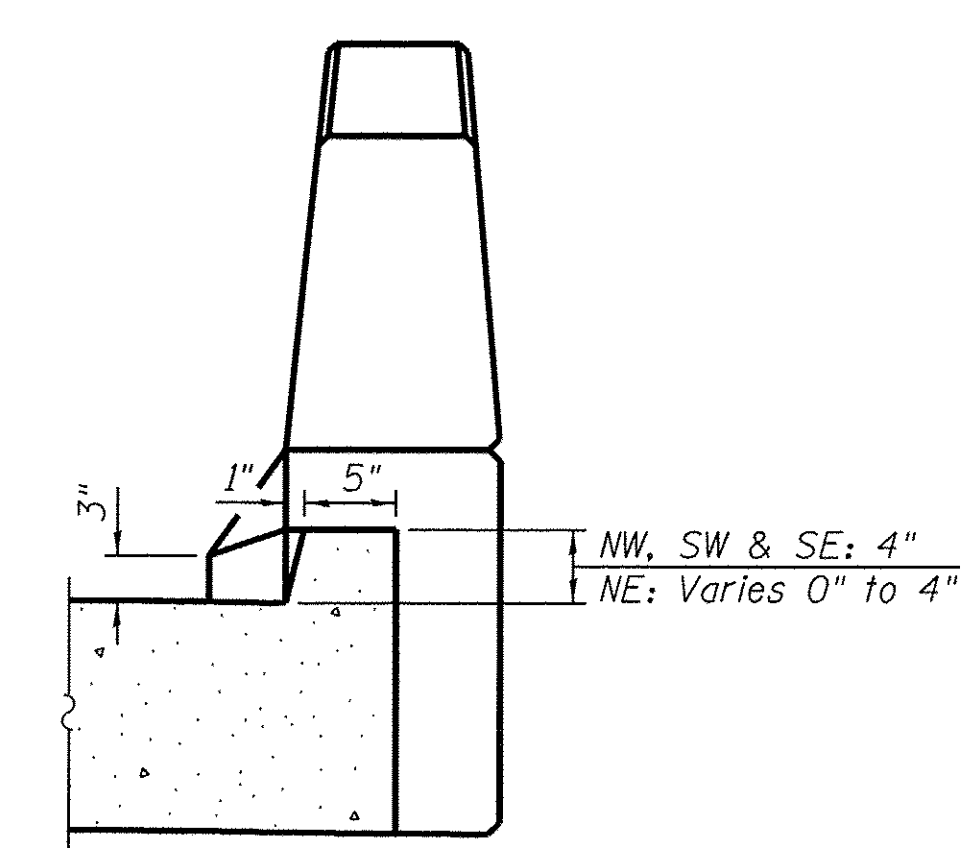
SECTION D-D
 (See Plan for dimensions not shown)
 *** Approach Footing slopes with Approach Slab



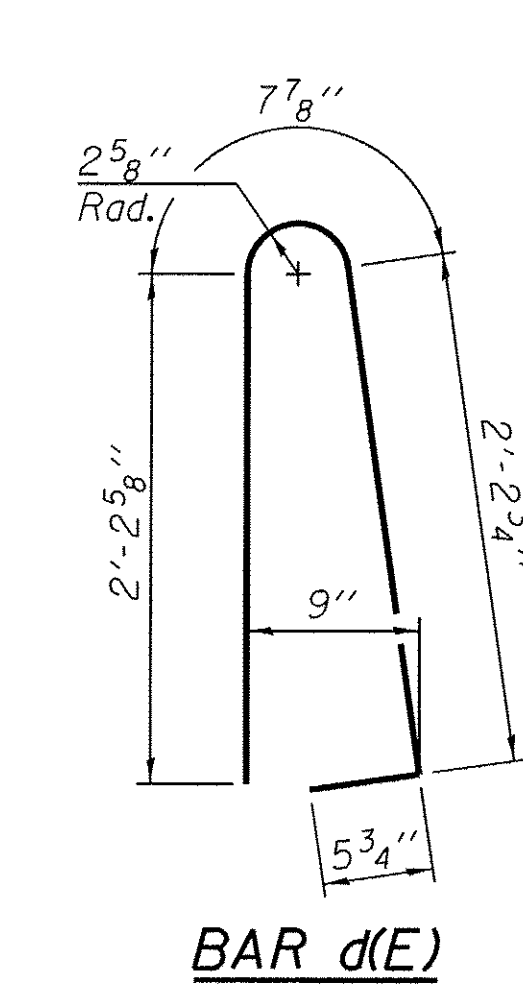
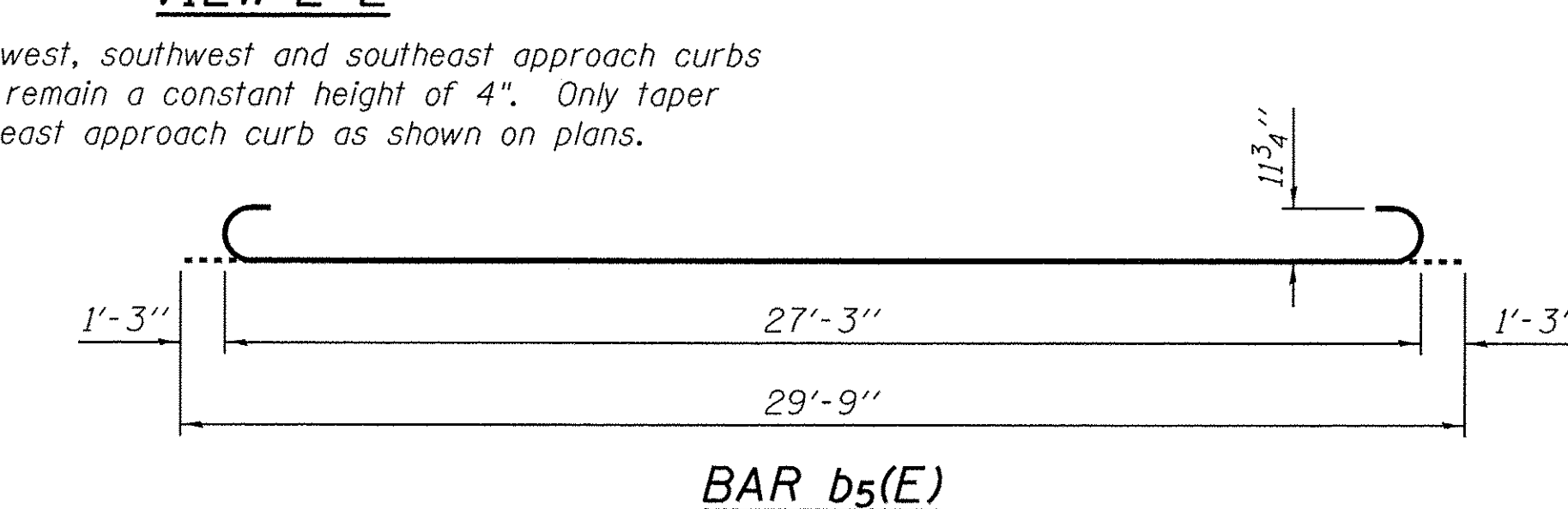
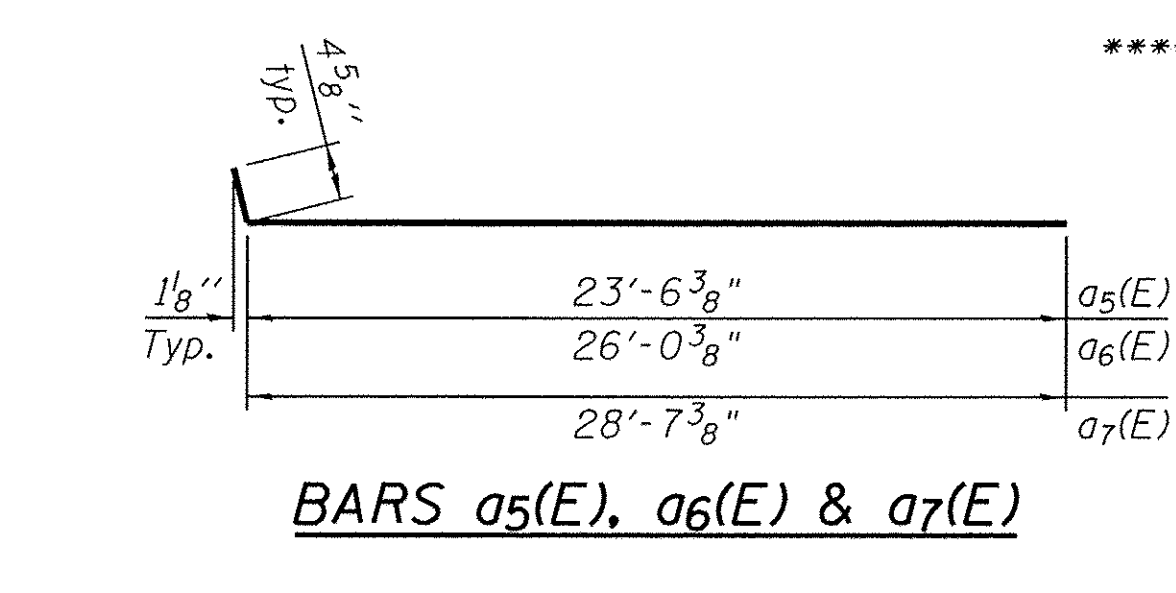
VIEW E-E



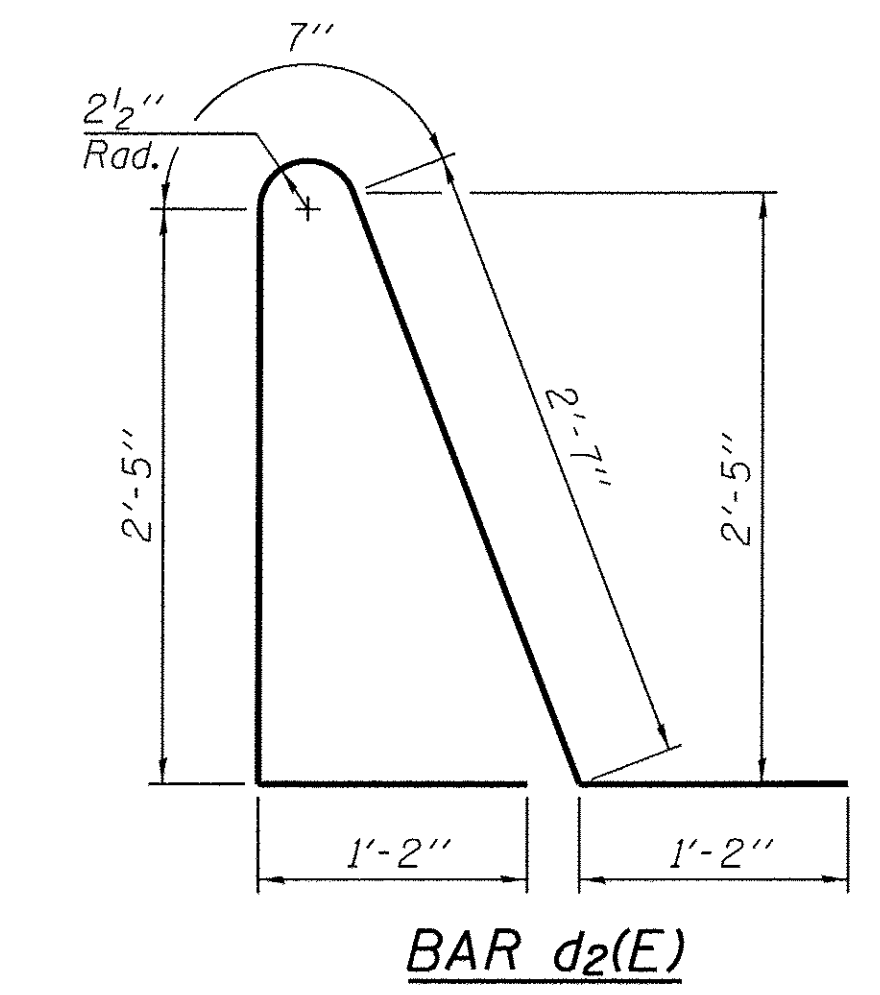
FLEXIBLE PAVEMENT



VIEW B-B



BAR d(E)



BAR d2(E)

**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	46	#5	26'-1"	—
a2(E)	36	#6	6'-6"	—
a4(E)	92	#5	23'-7"	—
a5(E)	50	#4	23'-11"	—
a6(E)	25	#4	26'-5"	—
a7(E)	25	#4	29'-0"	—
a8(E)	46	#5	28'-8"	—
b2(E)	4	#4	9'-8"	—
b3(E)	4	#4	19'-8"	—
b4(E)	85	#4	29'-8"	—
b5(E)	245	#9	29'-9"	—
d(E)	48	#5	5'-7"	∧
d2(E)	48	#5	7'-11"	∧
e3(E)	32	#4	9'-8"	—
e4(E)	4	#8	9'-8"	—
t(E)	214	#4	9'-8"	—
w(E)	80	#5	23'-7"	—
w1(E)	40	#5	26'-1"	—
w2(E)	40	#5	27'-10"	—
Concrete Structures			Cu. Yd.	31.8
Concrete Superstructure			Cu. Yd.	4.6
Concrete Superstructure (Approach Slab)			Cu. Yd.	153.0
Bridge Deck Grooving			Sq. Yd.	319
Protective Coat			Sq. Yd.	356
Reinforcement Bars, Epoxy Coated			Pound	40,100

(Sheet 2 of 2)

FILE NAME: W:\Projects\2013\130222 Bliss PH1\road\Structure\1\09\455020-01\2-BrIDGE Approach Slab Details 2.dgn

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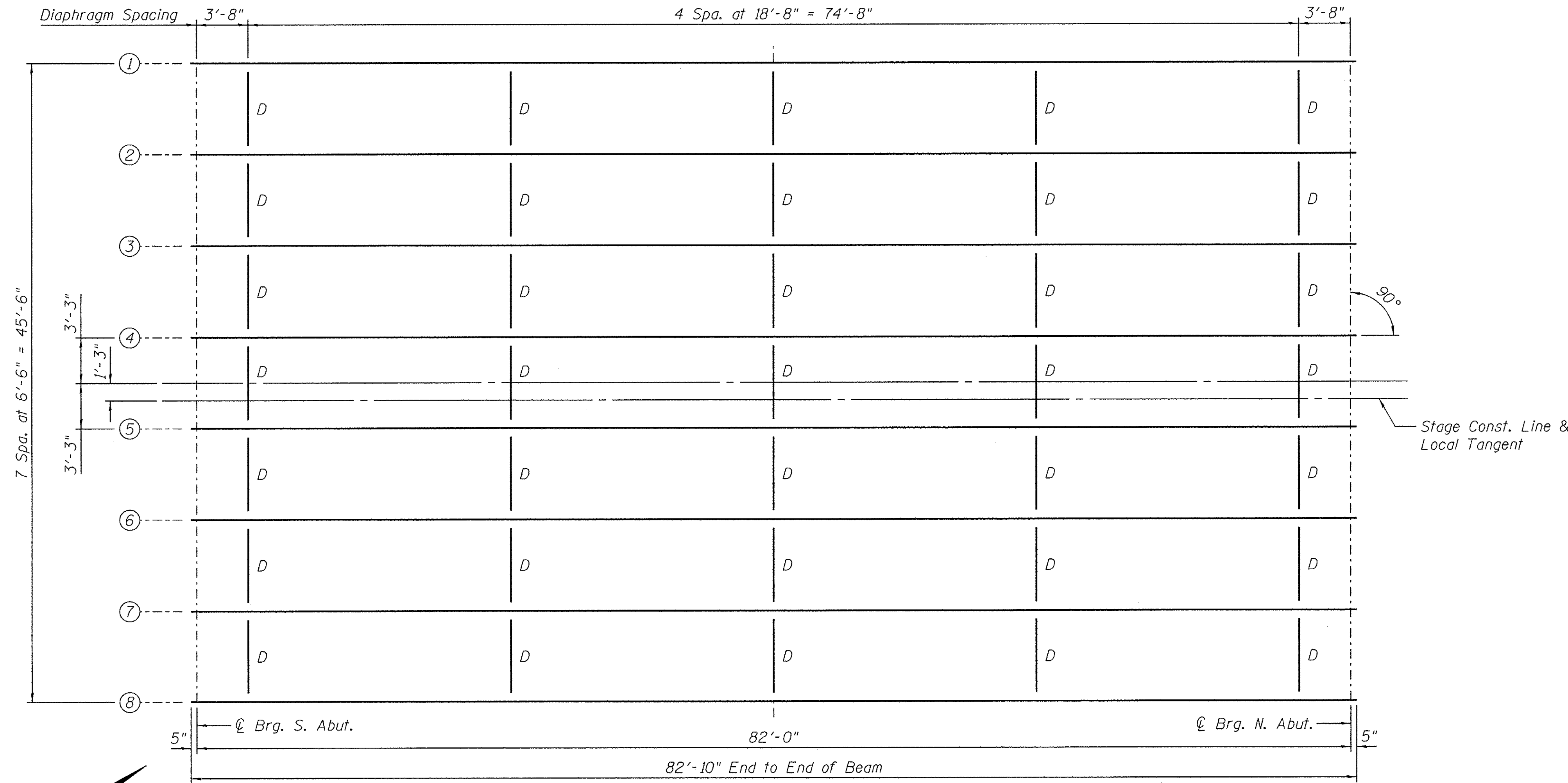
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**BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 045-3030**

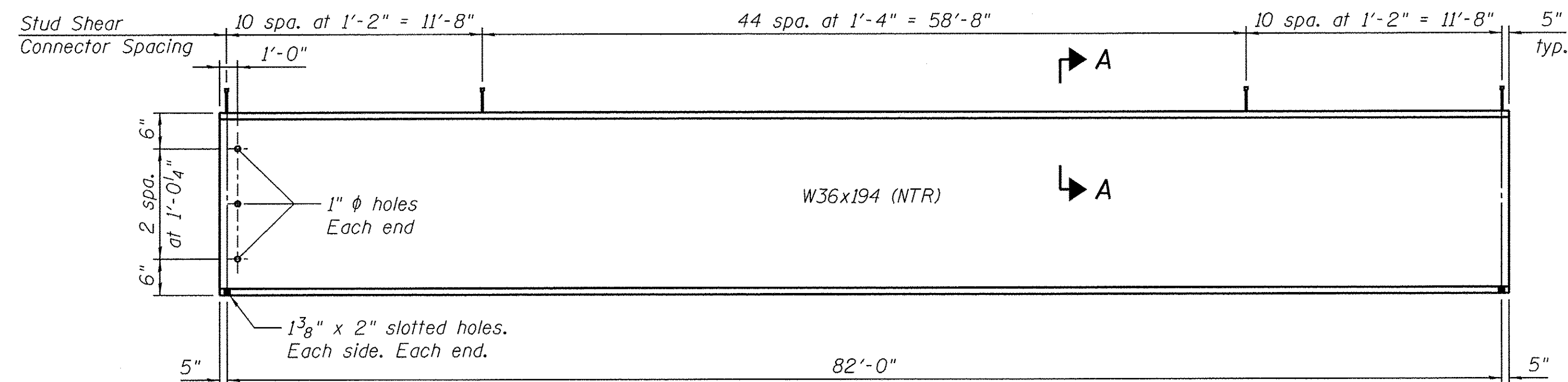
F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 108
CONTRACT NO. 61D20			FED. ROAD DIST. NO. / FED. AID PROJECT	

SHEET NO. 13 OF 24 SHEETS



FRAMING PLAN

"D" denotes Interior Diaphragm. See Sheet 15 of 24.

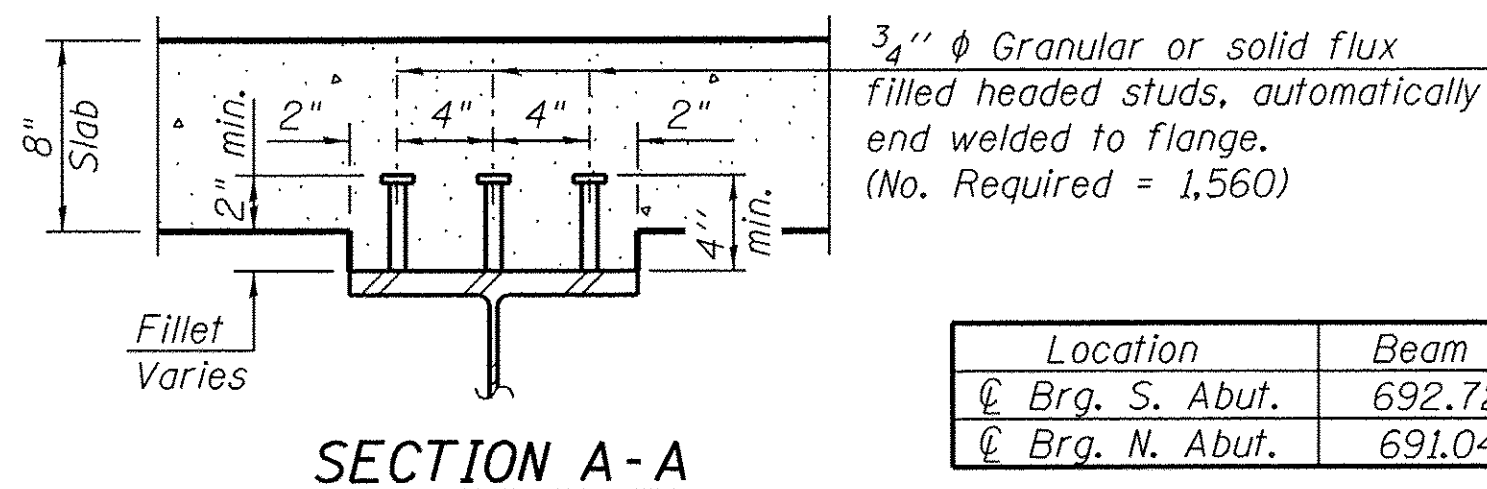


ELEVATION

TOP OF BEAM ELEVATIONS

(For Fabrication Only)

Location	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6	Beam 7	Beam 8
⊙ Brg. S. Abut.	692.72	692.97	693.23	693.48	693.73	693.99	694.24	694.50
⊙ Brg. N. Abut.	691.04	691.30	691.56	691.83	692.09	692.35	692.62	692.88



SECTION A-A

I_s	(in ⁴)	12,100
$I_c(n)$	(in ⁴)	27,957
$I_c(3n)$	(in ⁴)	20,364
$I_c(cr)$	(in ⁴)	-
S_s	(in ³)	664
$S_c(n)$	(in ³)	918
$S_c(3n)$	(in ³)	826
$S_c(cr)$	(in ³)	-
DC1	(k/')	0.876
M _{DC1}	(k)	736
DC2	(k/')	0.11
M _{DC2}	(k)	92
DW	(k/')	0.33
M _{DW}	(k)	277
M _{⊕ + IM}	(k)	1203
M _u (Strength I)	(k)	3557
ϕ _r M _n	(k)	4635
f _s DC1	(ksi)	13.30
f _s DC2	(ksi)	1.34
f _s DW	(ksi)	4.02
f _s (⊕+IM)	(ksi)	15.73
f _s (Service II)	(ksi)	39.11
0.95R _h F _{yr}	(ksi)	47.5
f _s (Total)(Strength I)	(ksi)	-
ϕ _r F _n	(ksi)	-
V _r	(k)	24.9

	Abut.	
R _{DC1}	(k)	35.9
R _{DC2}	(k)	4.5
R _{DW}	(k)	13.5
R _{⊕ + IM}	(k)	78.5
R _{Total}	(k)	132.4

- I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).
- $I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to short-term composite live loads (in.⁴ and in.³).
- $I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).
- $I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite dead loads (in.⁴ and in.³).
- DC1: Un-factored non-composite dead load (kips/ft.).
- M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- M_{⊕ + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- M_u (Strength I): Factored design moment (kip-ft.).
1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{⊕ + IM}
- ϕ_rM_n: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).
- f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_{nc}
- f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
M_{DC2} / S_{c(3n)} or M_{DC2} / S_{c(cr)} as applicable.
- f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
M_{DW} / S_{c(3n)} or M_{DW} / S_{c(cr)} as applicable.
- f_s (⊕+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).
M_{⊕ + IM} / S_{c(n)} or M_{⊕ + IM} / S_{c(cr)} as applicable.
- f_s (Service II): Sum of stresses as computed below (ksi).
f_sDC1 + f_sDC2 + f_sDW + 1.3 f_s(⊕ + IM)
- 0.95R_hF_{yr}: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
- f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
1.25 (f_sDC1 + f_sDC2) + 1.5 f_sDW + 1.75 f_s(⊕ + IM)
- ϕ_rF_n: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7.2 (ksi).
- V_r: Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

NOTES:

- All beams shall be W36x194 AASHTO M270 Grade 50W (NTR). All diaphragms and connecting angles shall be AASHTO M270 Grade 50W. All bearing plates shall be AASHTO M270 Grade 50W.
- All diaphragms shall be installed as the steel is erected and secured with erection pins and bolts except as otherwise noted.
- Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.

FILE NAME = W:\Projects\2013\130282 B1as PH11\code\Structure\1\Drawn\0453030-014-Structure1.Steel.dgn

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ST. CHARLES, ILLINOIS 60174
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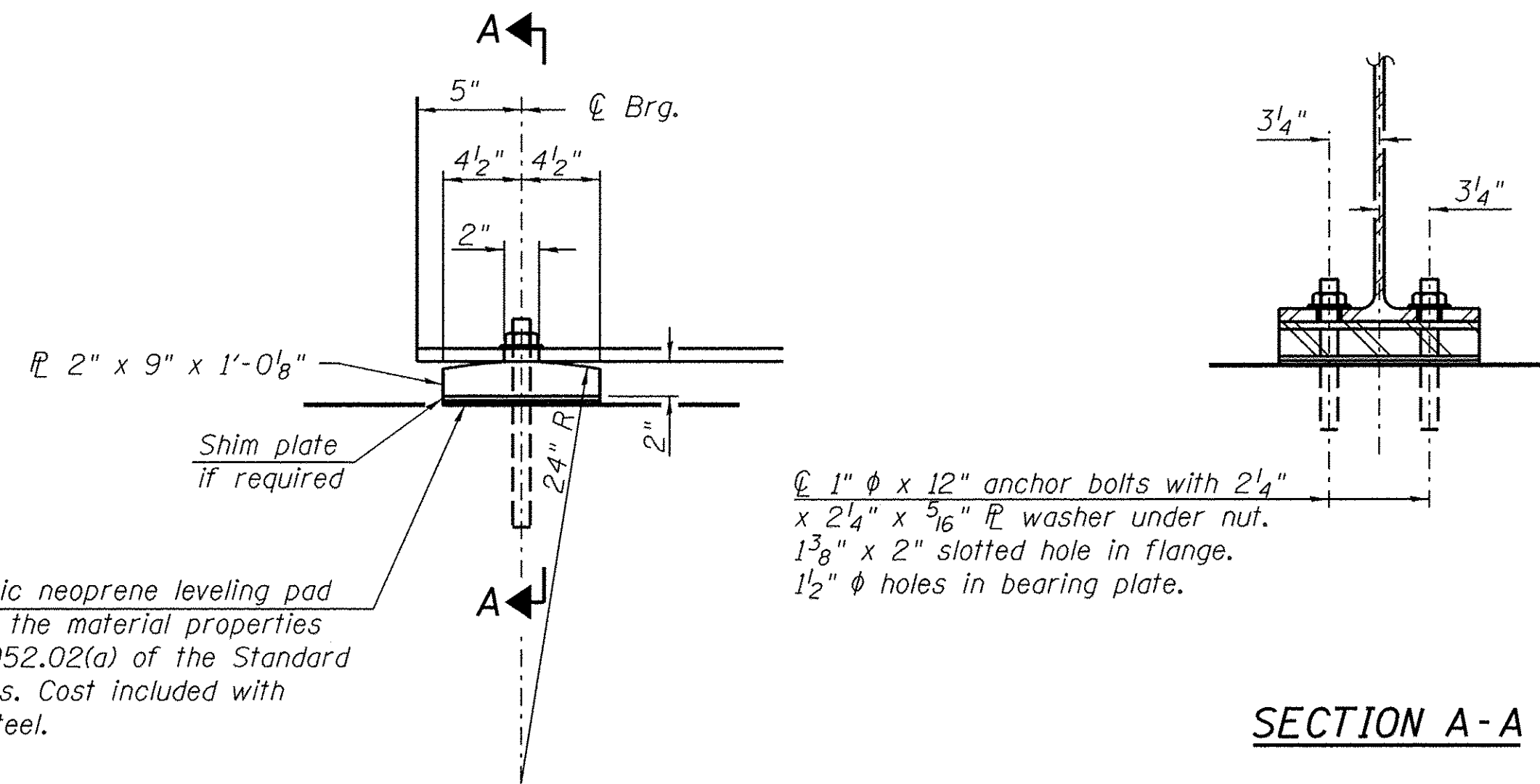
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**STRUCTURAL STEEL
STRUCTURE NO. 045-3030**

SHEET NO. 14 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	109
FED. ROAD DIST. NO.			FED. AID PROJECT	
			CONTRACT NO. 61D20	



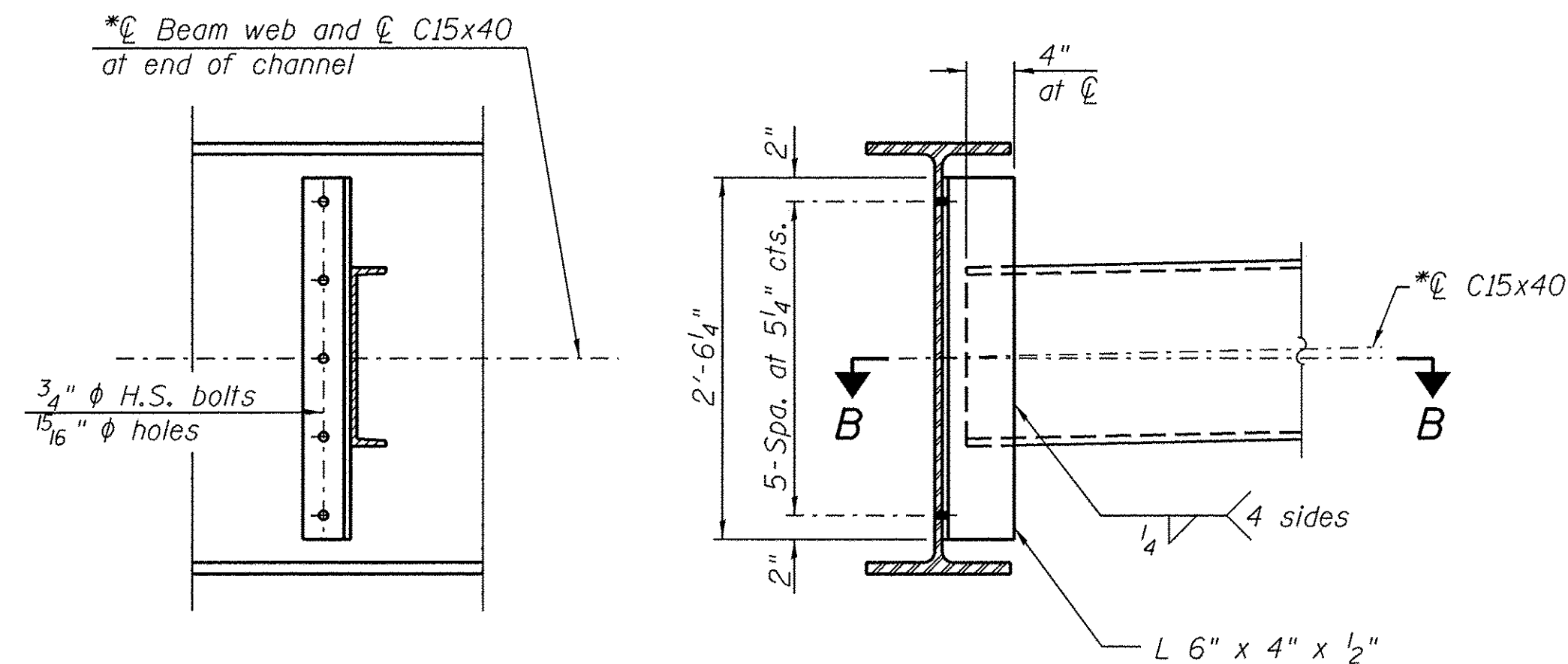
1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

ELEVATION AT ABUTMENT

SECTION A-A

FIXED BEARING

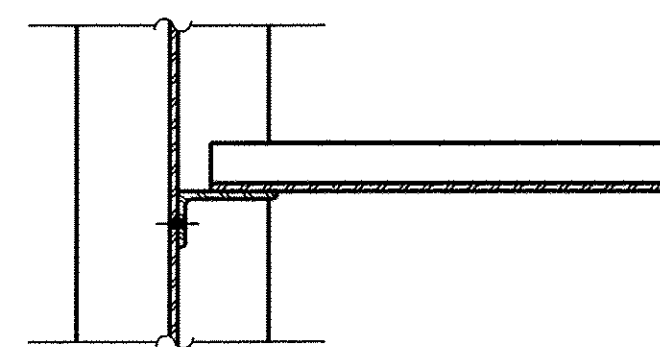
(16 Required)



INTERIOR DIAPHRAGM, D

(35 Required)

Note:
Two hardened washers required for each set of oversized holes.
*C15x50 is permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized, shall be provided at no additional cost to the Owner.



SECTION B-B

NOTES:

- Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
- Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
- Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
- Two 1/8" adjusting shims shall be provided for each bearing location in addition to all other plates and shims and placed as shown on the bearing details.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	32

FILE NAME: M:\Projects\2013\1302282 B115 - PH11\Road\Structural\Drawings\0452028-015-Structural Steel Details.dgn



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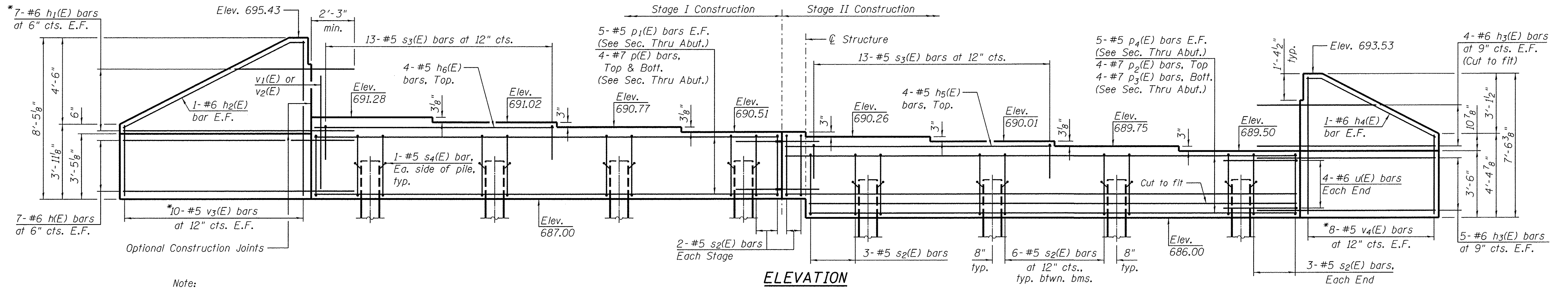
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STRUCTURAL STEEL DETAILS
STRUCTURE NO. 045-3030

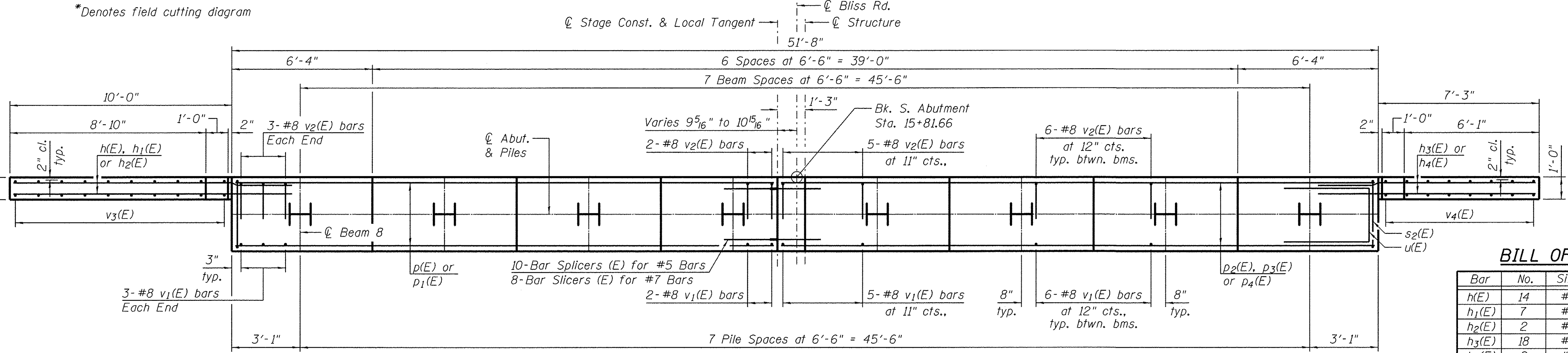
SHEET NO. 15 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	110
CONTRACT NO. 61D20				
FED. ROAD DIST. NO.		FED. AID PROJECT		



Note:
 Pour steps monolithically with cap.
 *Denotes field cutting diagram

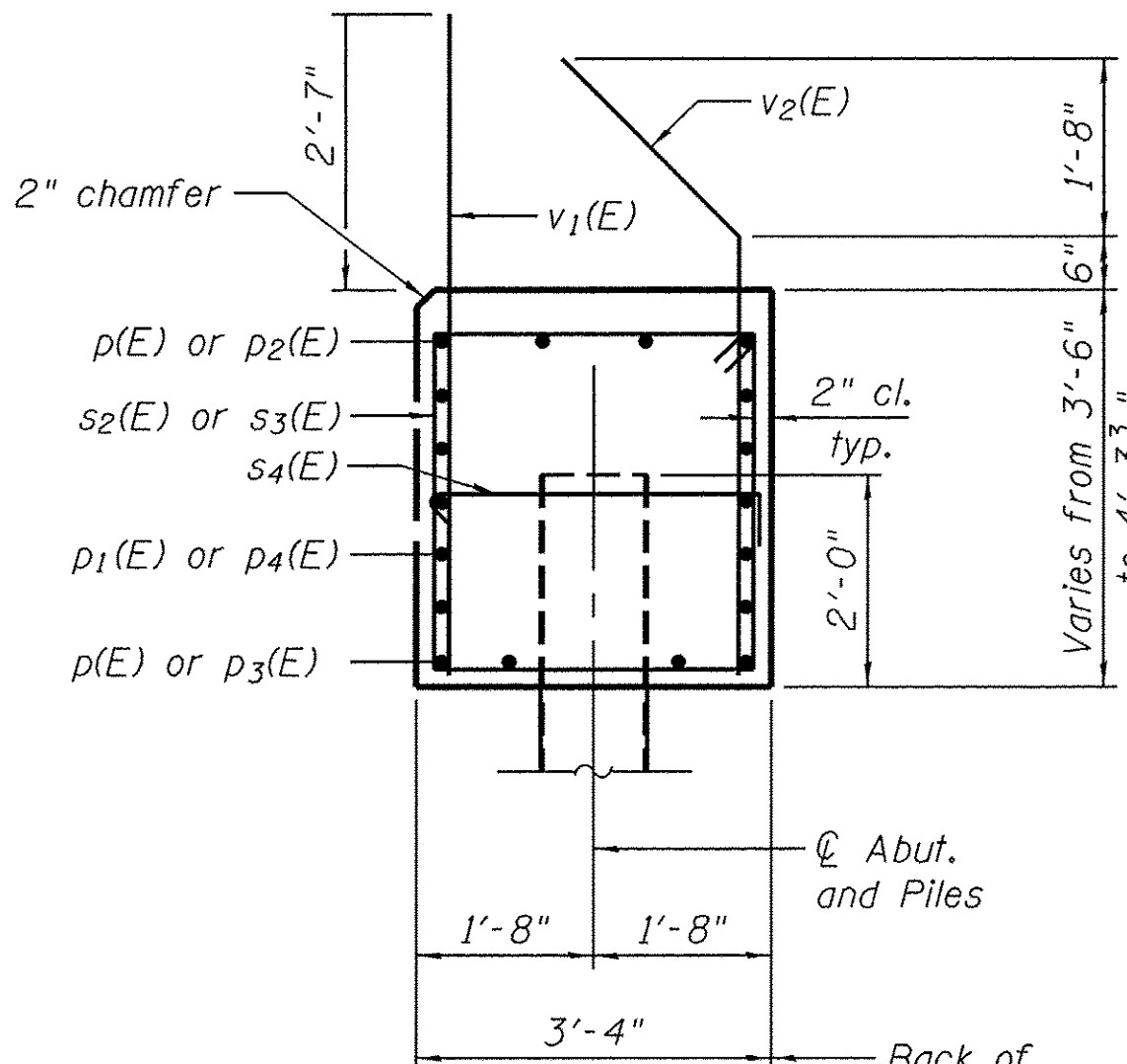
ELEVATION
 (Looking south)



PLAN

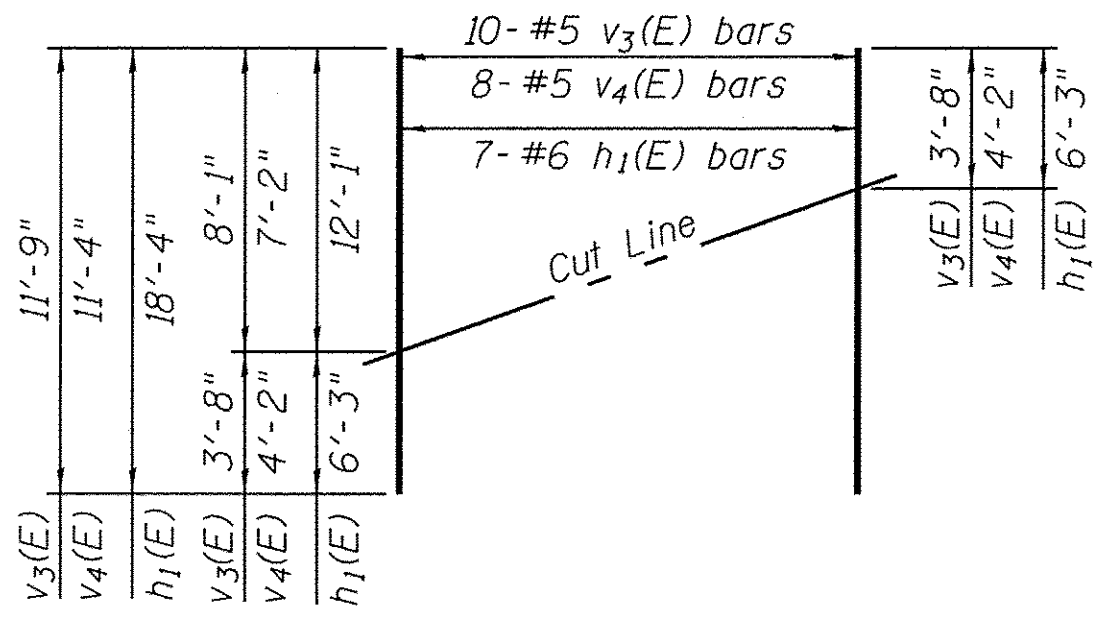
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	14	#6	12'-1"	—
h1(E)	7	#6	18'-4"	—
h2(E)	2	#6	10'-6"	—
h3(E)	18	#6	9'-4"	—
h4(E)	2	#6	7'-6"	—
h5(E)	4	#5	13'-11"	—
h6(E)	4	#5	12'-6"	—
p(E)	8	#7	24'-3"	—
p1(E)	10	#5	24'-3"	—
p2(E)	4	#7	26'-9"	—
p3(E)	4	#7	25'-6"	—
p4(E)	10	#5	26'-9"	—
s2(E)	49	#5	13'-3"	□
s3(E)	26	#5	6'-6"	□
s4(E)	16	#5	4'-0"	□
u(E)	8	#6	10'-8"	□
v1(E)	49	#8	5'-11"	—
v2(E)	49	#8	6'-2"	—
v3(E)	10	#5	11'-9"	—
v4(E)	8	#5	11'-4"	—
Structure Excavation			Cu. Yd.	40
Concrete Structures			Cu. Yd.	28.9
Reinforcement Bars, Epoxy Coated			Pound	5,070
Furnishing Steel Piles HP 12x53			Foot	224
Driving Piles			Foot	224
Test Pile Steel HP 12x53			Each	1
Pile Shoes			Each	8



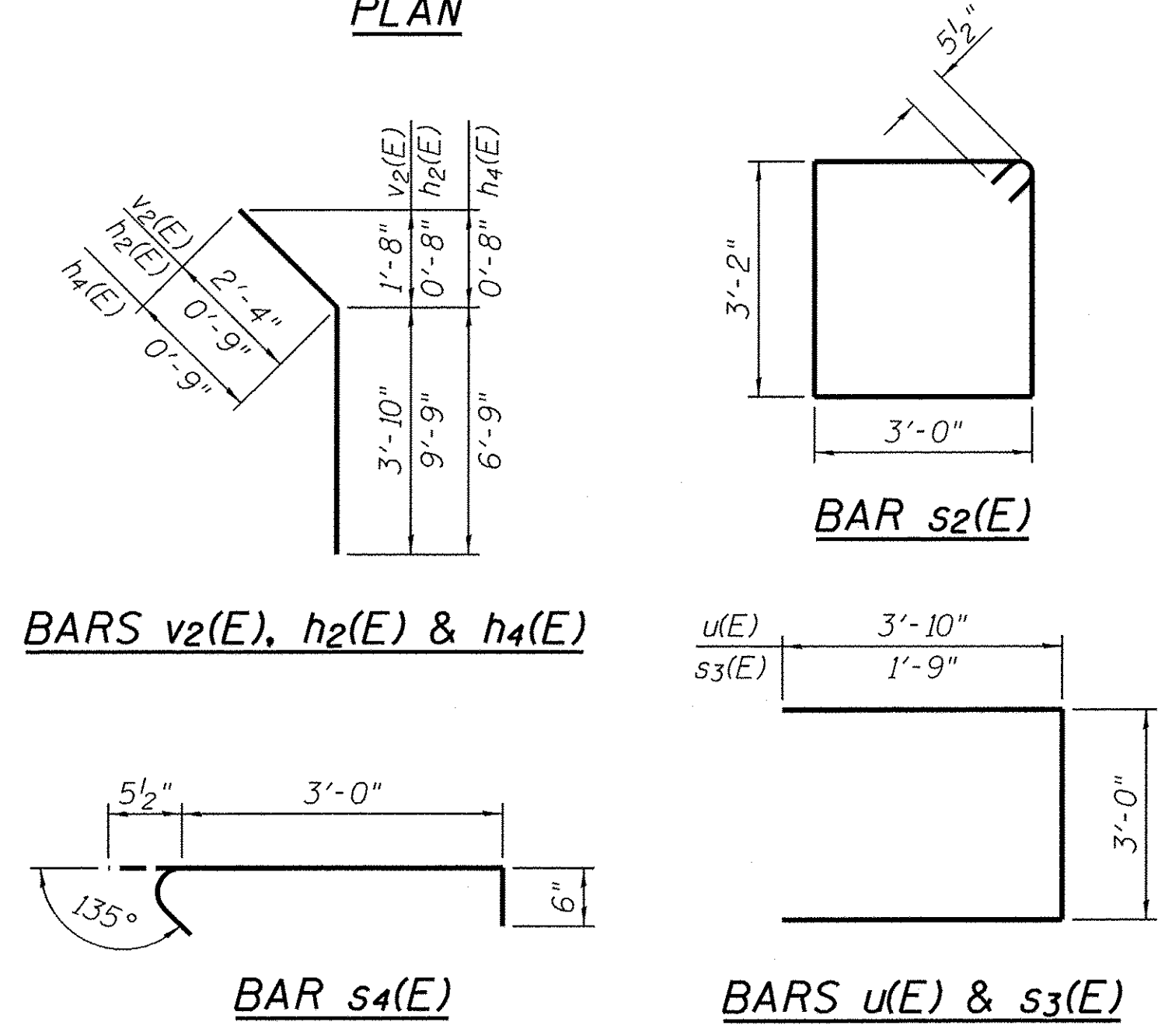
SEC. THRU ABUT.

Dimensions at right angles to abutment.



FIELD CUTTING DIAGRAM

Order h1(E), v3(E) & v4(E) full length. Cut as shown and use remainder of bars in opposite face.



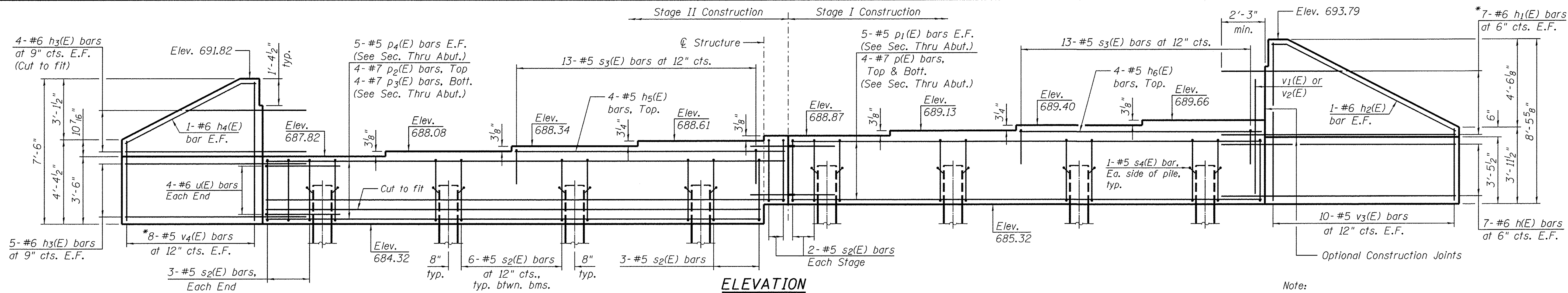
PILE DATA

Type: HP 12x53
 Nominal Required Bearing: 419k
 Factored Resistance Available: 230k
 Est. Length: 32.0'
 No. Production Piles: 7
 No. Test Piles: 1

NOTES

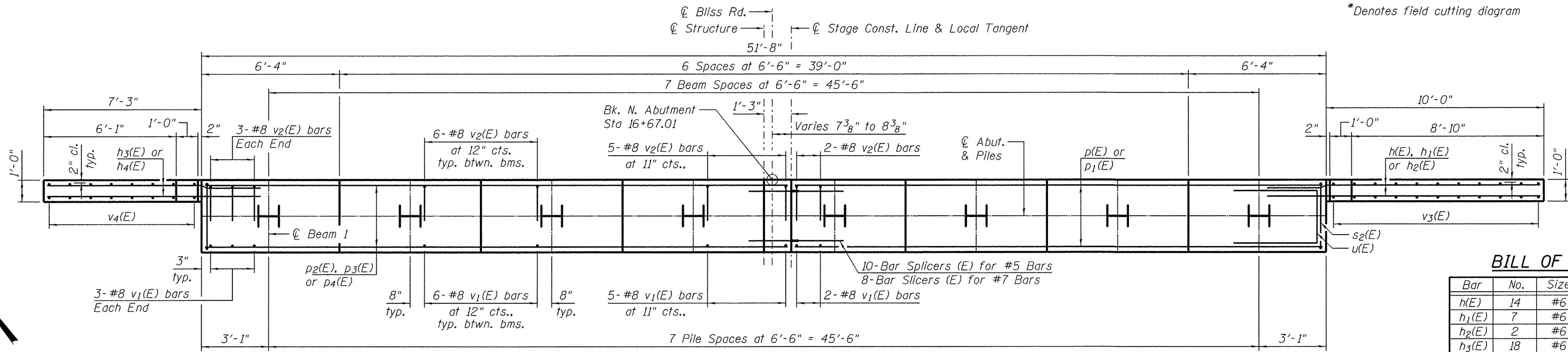
For details of piles see sheet 18 of 24.
 For details of Integral Abutment Bearing, see sheet 15 of 24.
 For drainage details, see Section Thru Integral Abutment on sheet 2 of 24.

FILE NAME = W:\Projects\2013\130282 - Bliss - Ph1 - Road\Structure\Drawings\045-3030-016-South - Abutment.dgn



ELEVATION
(Looking north)

Note:
Pour steps monolithically with cap.
*Denotes field cutting diagram



PLAN

BILL OF MATERIAL

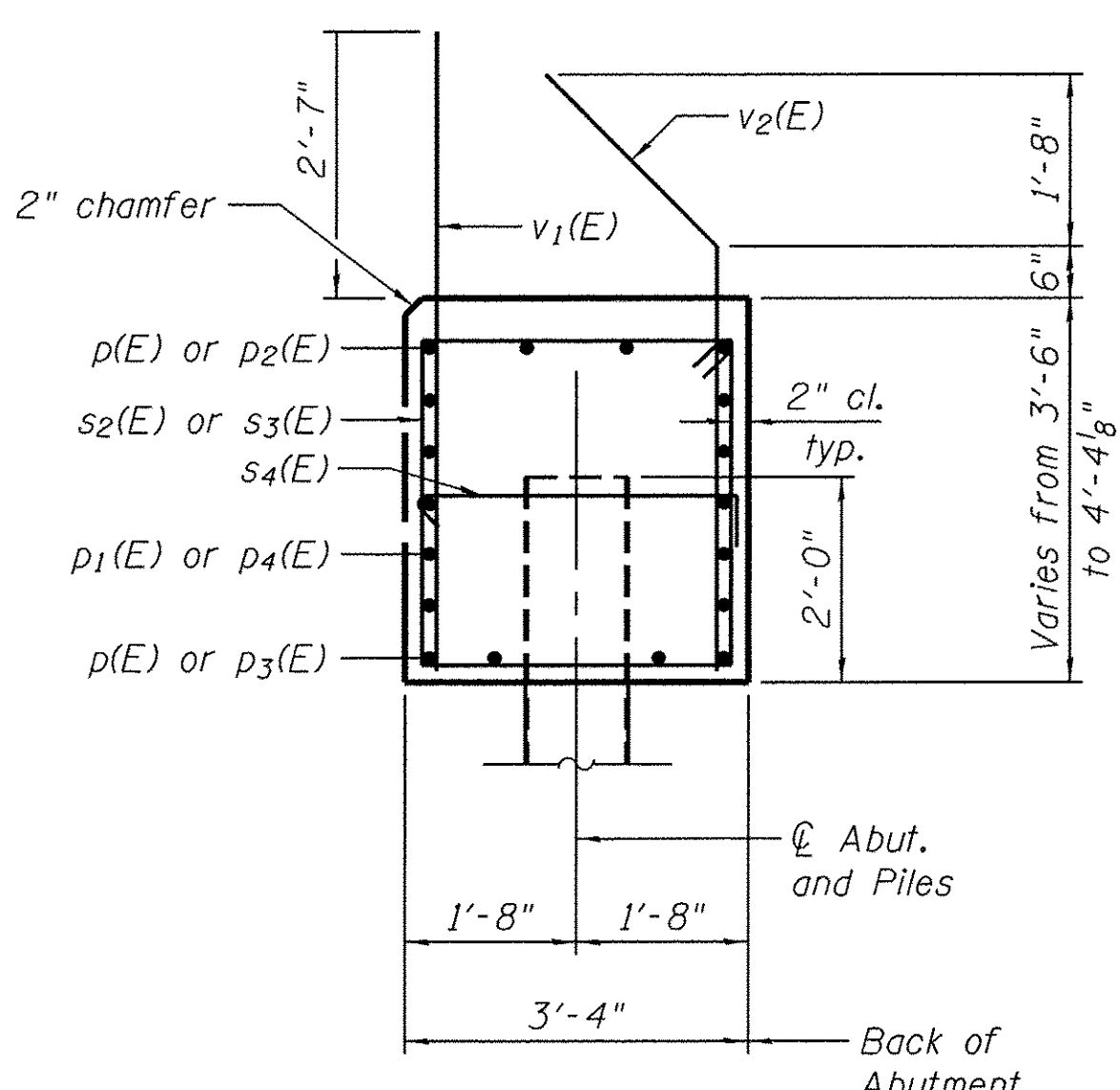
Bar	No.	Size	Length	Shape
h(E)	14	#6	12'-1"	—
h1(E)	7	#6	18'-4"	—
h2(E)	2	#6	10'-6"	—
h3(E)	18	#6	9'-4"	—
h4(E)	2	#6	7'-6"	—
h5(E)	4	#5	13'-11"	—
h6(E)	4	#5	12'-6"	—
p(E)	8	#7	24'-3"	—
p1(E)	10	#5	24'-3"	—
p2(E)	4	#7	26'-9"	—
p3(E)	4	#7	25'-6"	—
p4(E)	10	#5	26'-9"	—
s2(E)	49	#5	13'-3"	□
s3(E)	26	#5	6'-6"	□
s4(E)	16	#5	4'-0"	□
u(E)	8	#6	10'-8"	□
v1(E)	49	#8	5'-11"	—
v2(E)	49	#8	6'-2"	—
v3(E)	10	#5	11'-9"	—
v4(E)	8	#5	11'-4"	—
Structure Excavation			Cu. Yd.	77
Concrete Structures			Cu. Yd.	29.1
Reinforcement Bars, Epoxy Coated			Pound	5,070
Furnishing Steel Piles HP 12x53			Foot	238
Driving Piles			Foot	238
Test Pile Steel HP 12x53			Each	1
Pile Shoes			Each	8

PILE DATA

Type: HP 12x53
Nominal Required Bearing: 419k
Factored Resistance Available: 230k
Est. Length: 34.0'
No. Production Piles: 7
No. Test Piles: 1

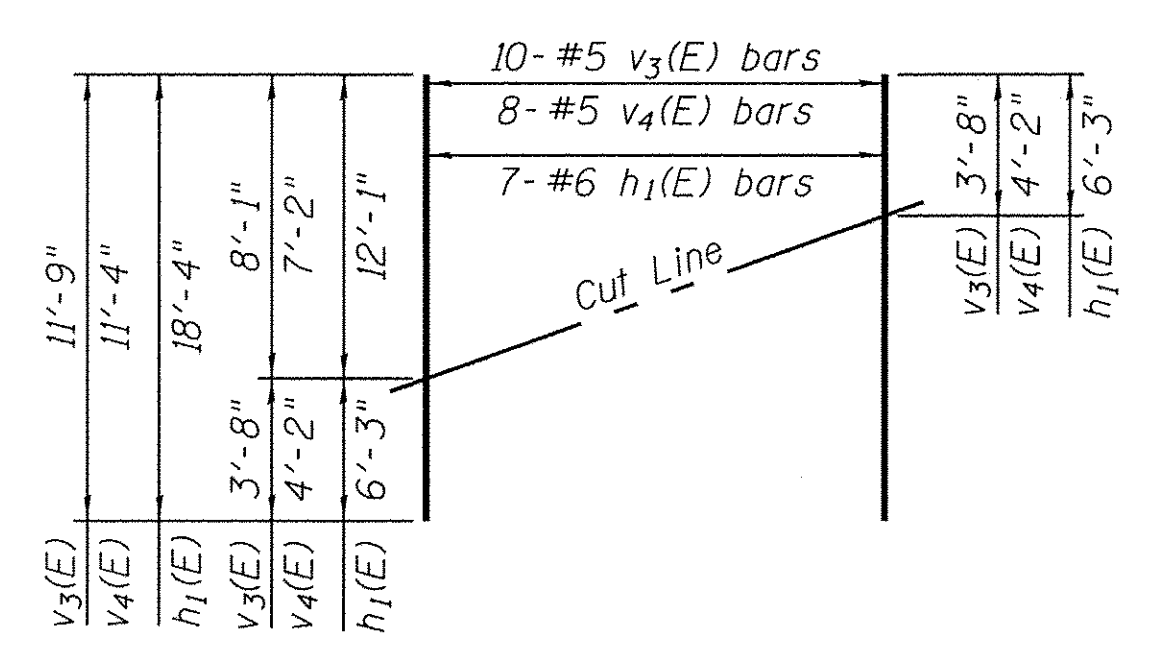
NOTES

For details of piles see sheet 18 of 24.
For details of Integral Abutment Bearing, see sheet 15 of 24.
For drainage details, see Section Thru Integral Abutment on sheet 2 of 24.



SEC. THRU ABUT.

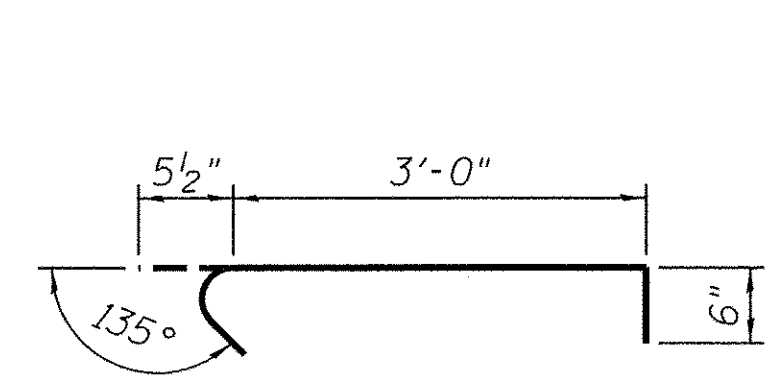
Dimensions at right angles to abutment.



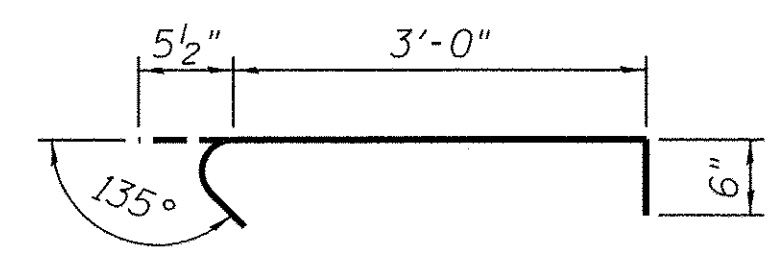
FIELD CUTTING DIAGRAM

Order h1(E), v3(E) & v4(E) full length. Cut as shown and use remainder of bars in opposite face.

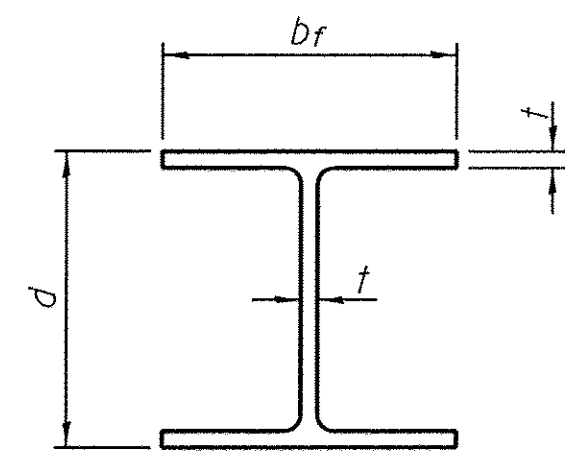
BARS v2(E), h2(E) & h4(E)



BAR s4(E)

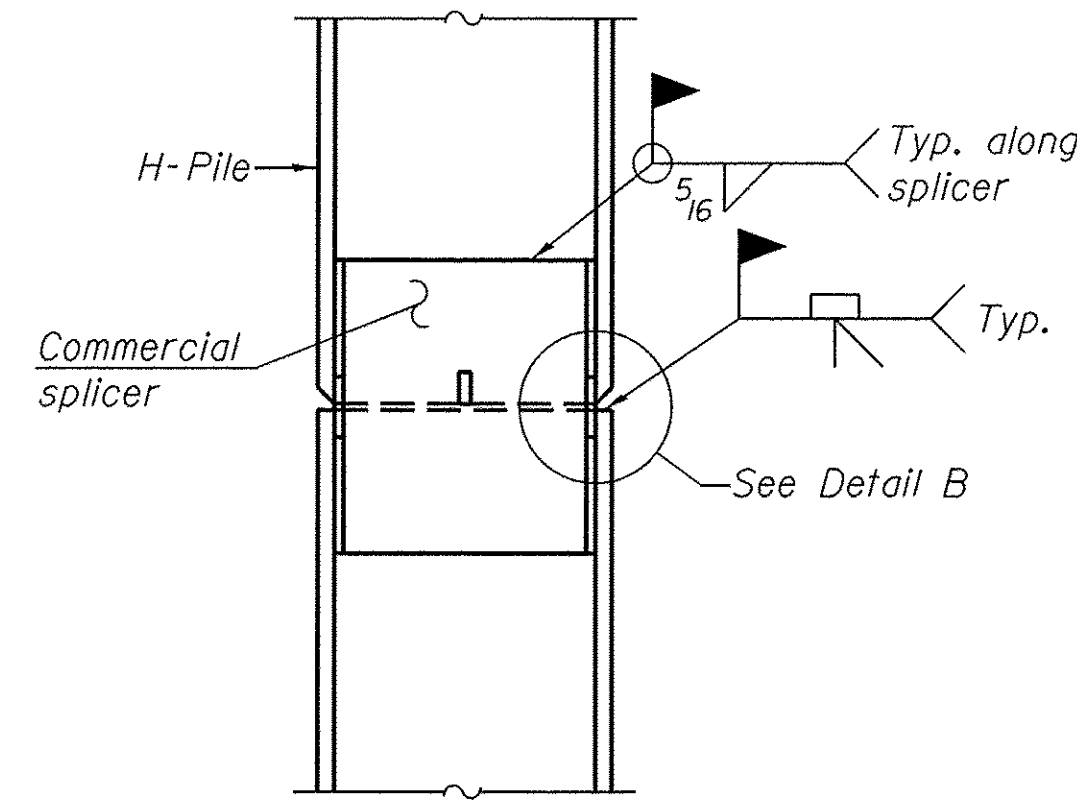


BARS u(E) & s3(E)

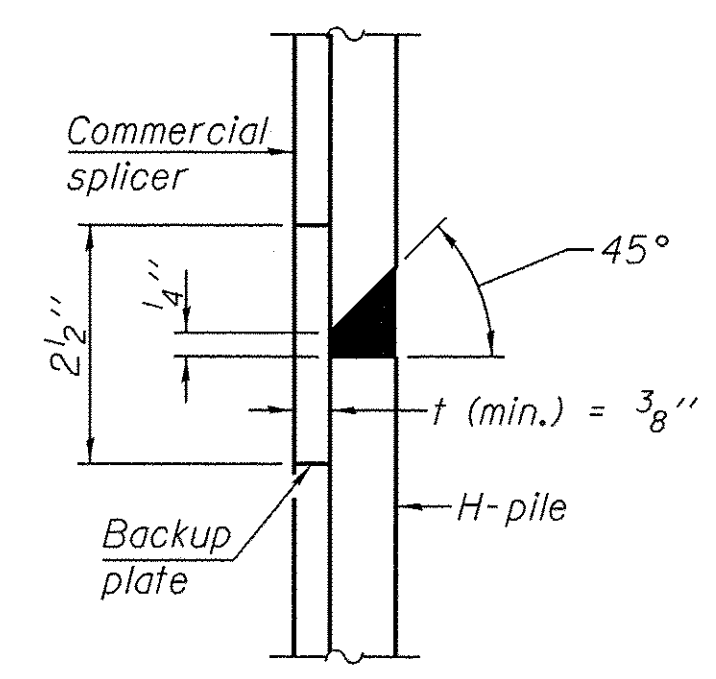


STEEL PILE TABLE

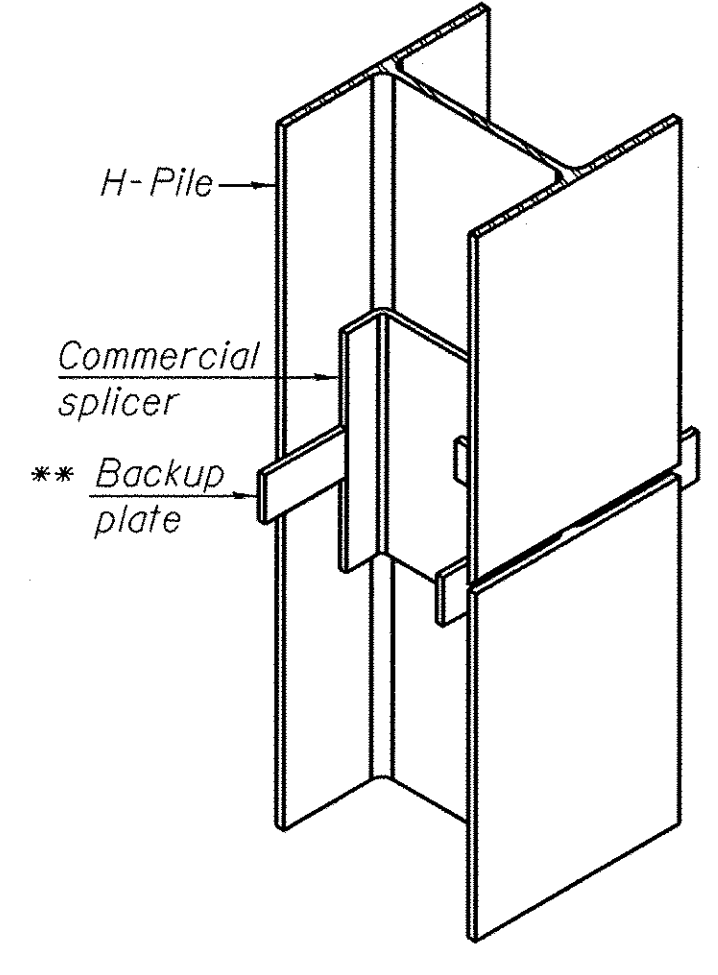
Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 $\frac{1}{4}$ "	14 $\frac{7}{8}$ "	$\frac{13}{16}$ "	30"
x102	14"	14 $\frac{3}{4}$ "	$\frac{11}{16}$ "	30"
x89	13 $\frac{7}{8}$ "	14 $\frac{3}{4}$ "	$\frac{5}{8}$ "	30"
x73	13 $\frac{5}{8}$ "	14 $\frac{5}{8}$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



ELEVATION

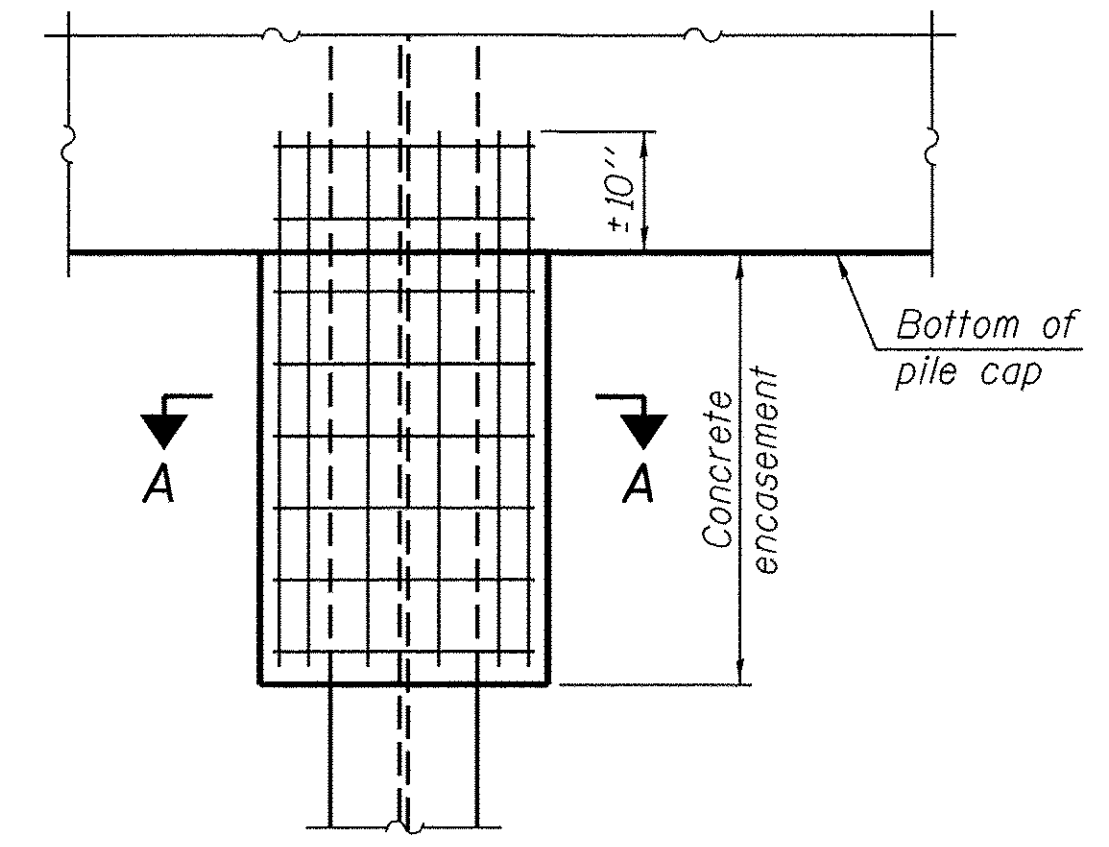


DETAIL "B"



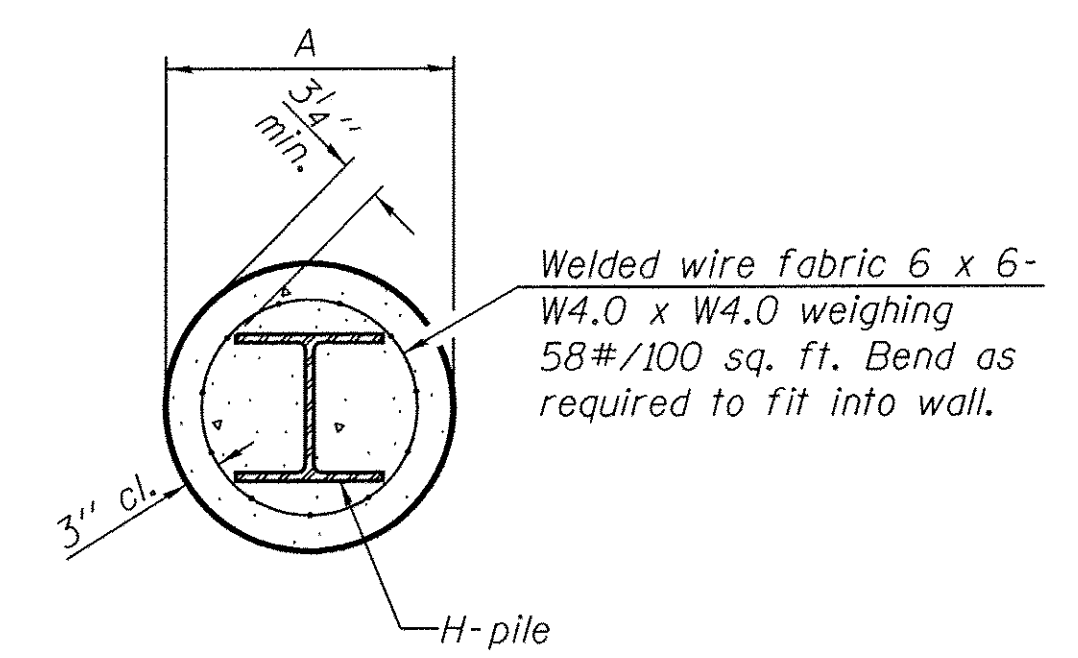
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



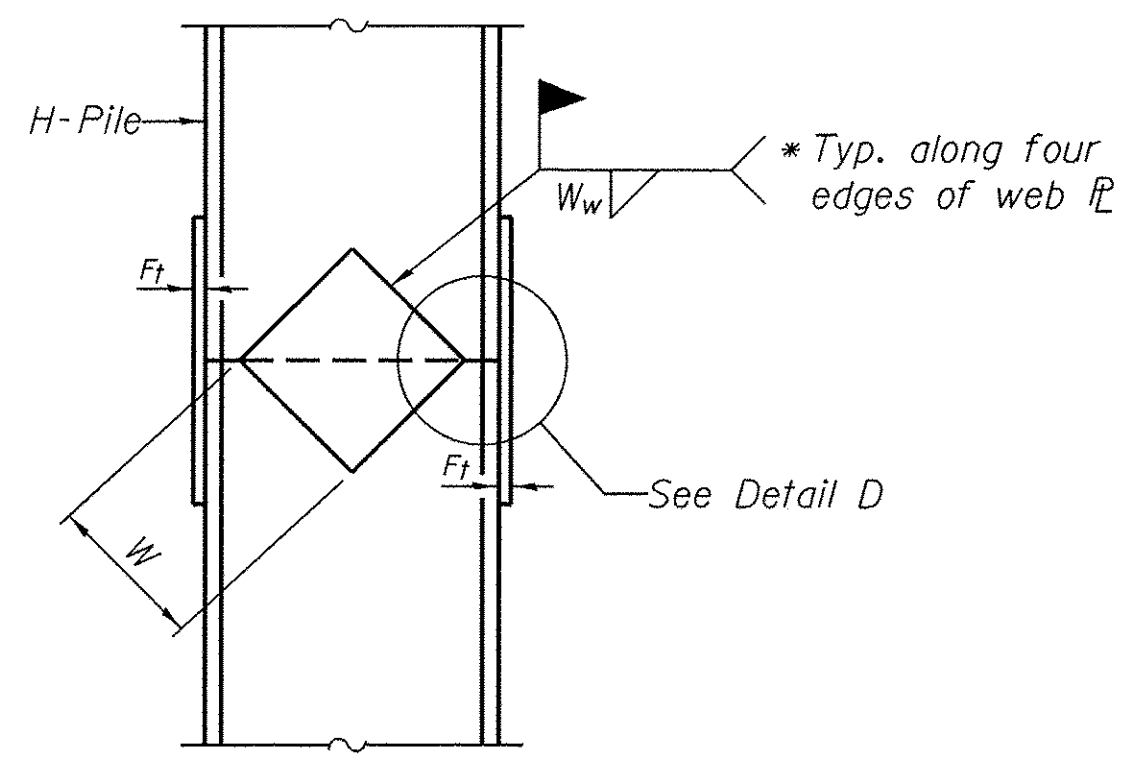
ELEVATION

PILE ENCASEMENT

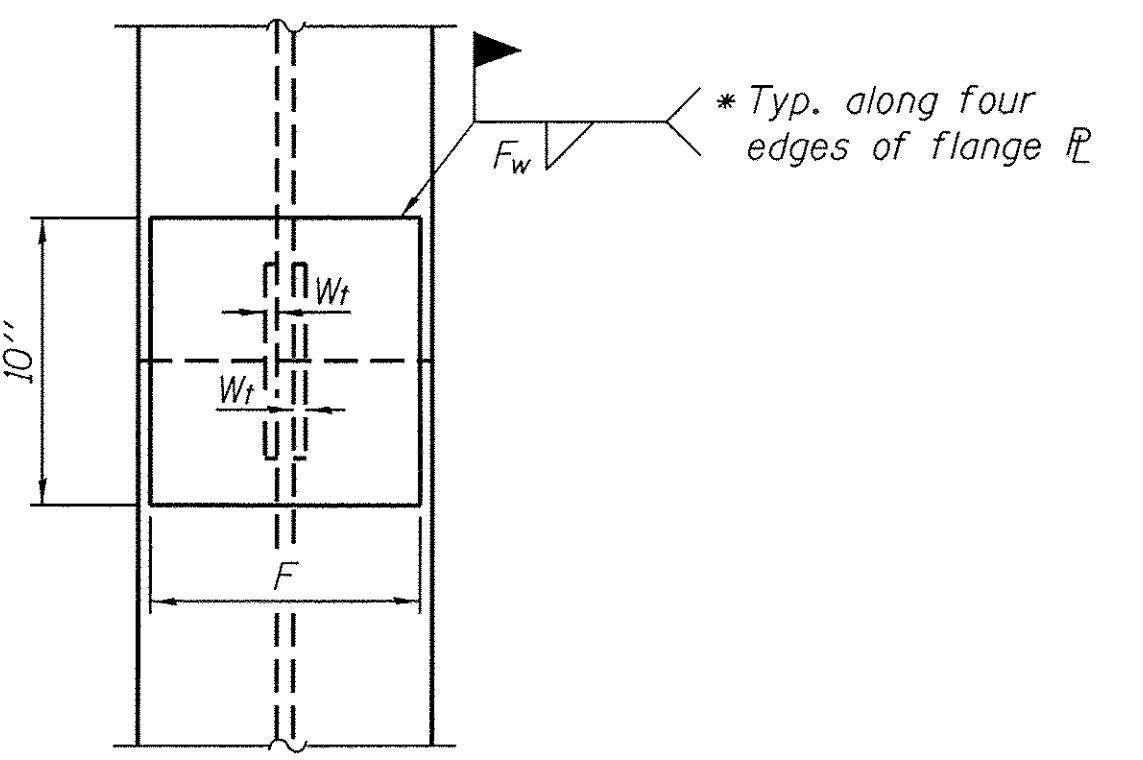


SECTION A-A

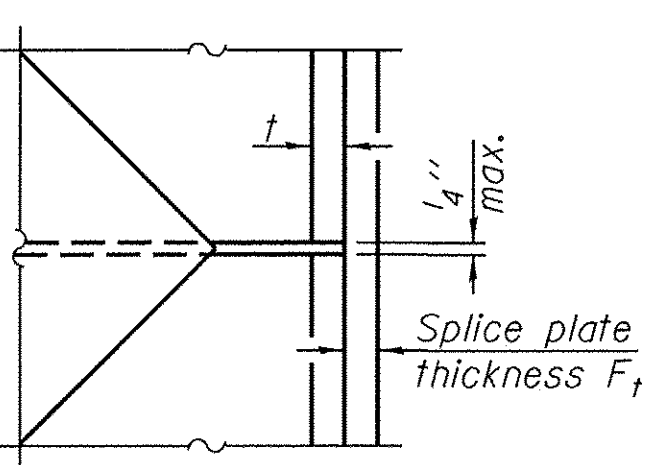
Note:
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



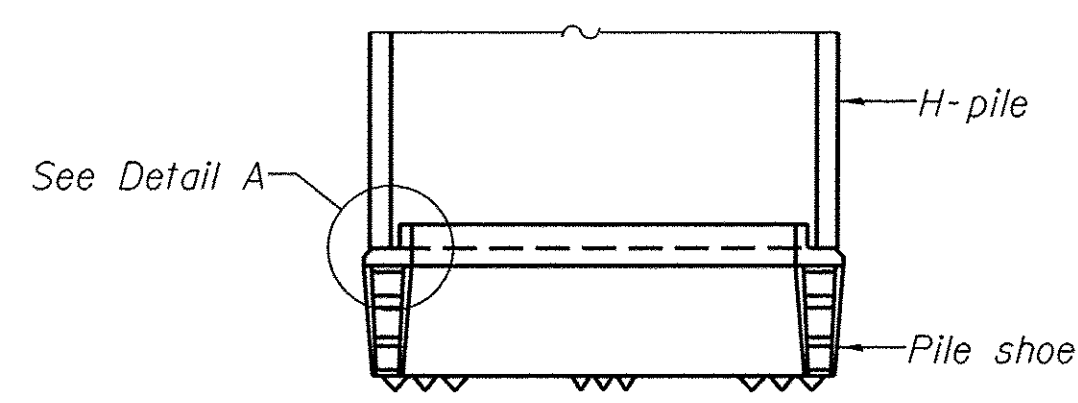
END VIEW



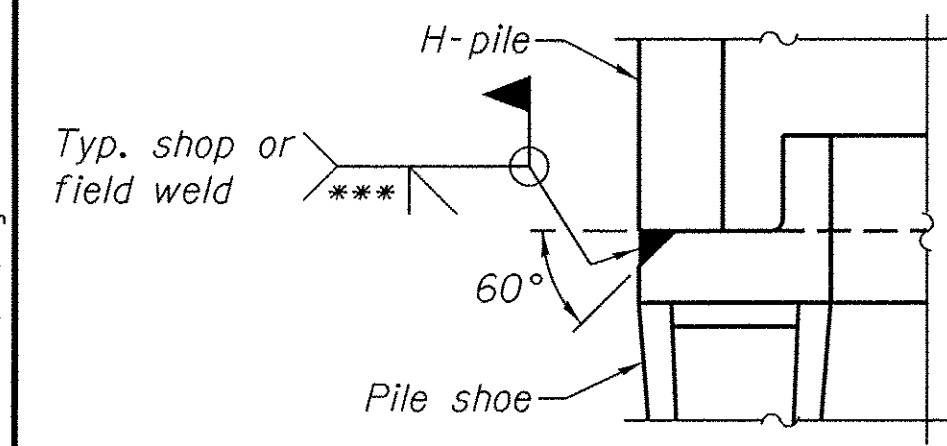
DETAIL D

WELDED PLATE FIELD SPLICE

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

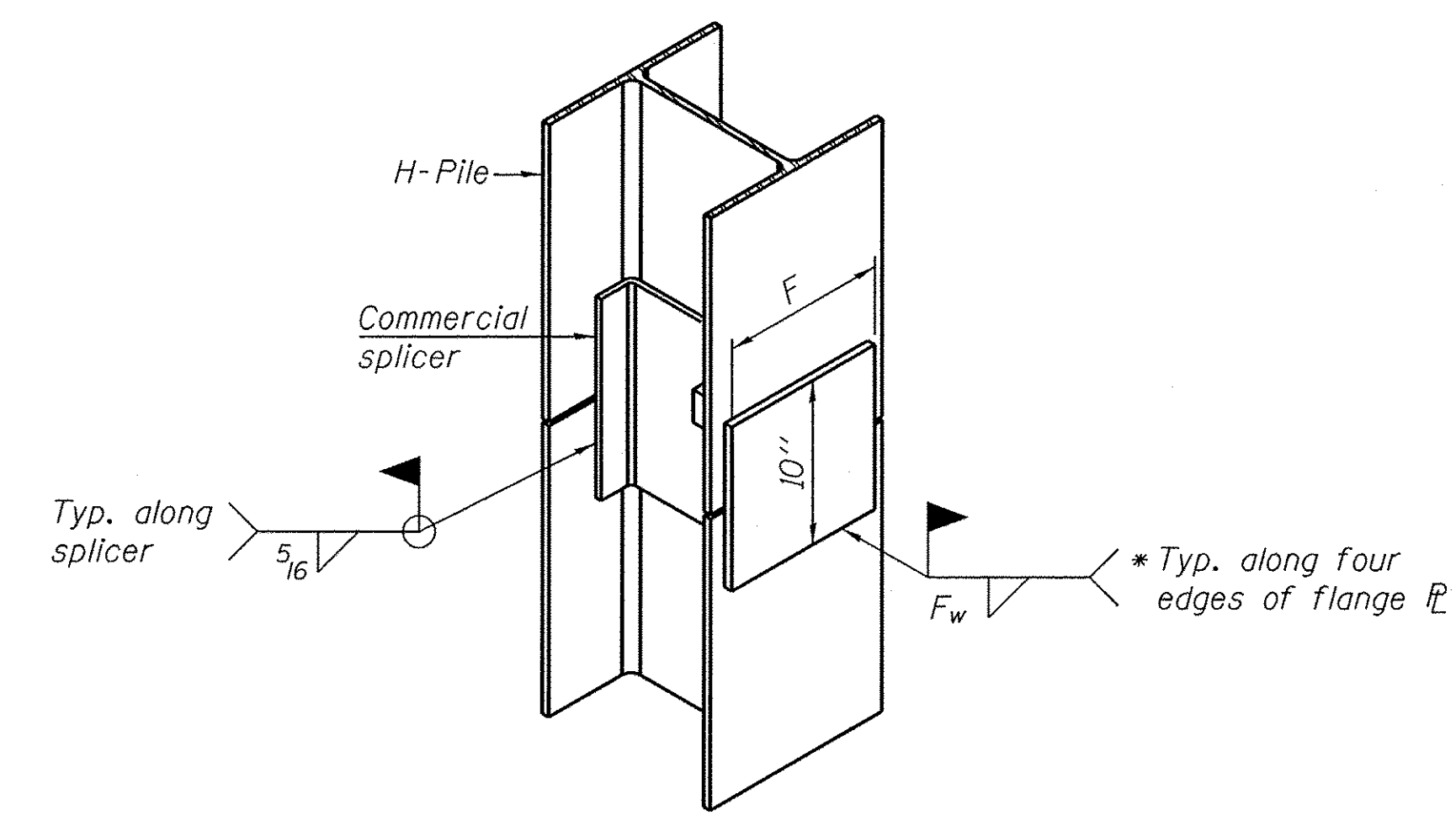


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

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

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

FILE NAME = W:\Projects\2013\130282 - B1as PH1\cadd\Structure\0453020-018-HP Pile Detail.dgn



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116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

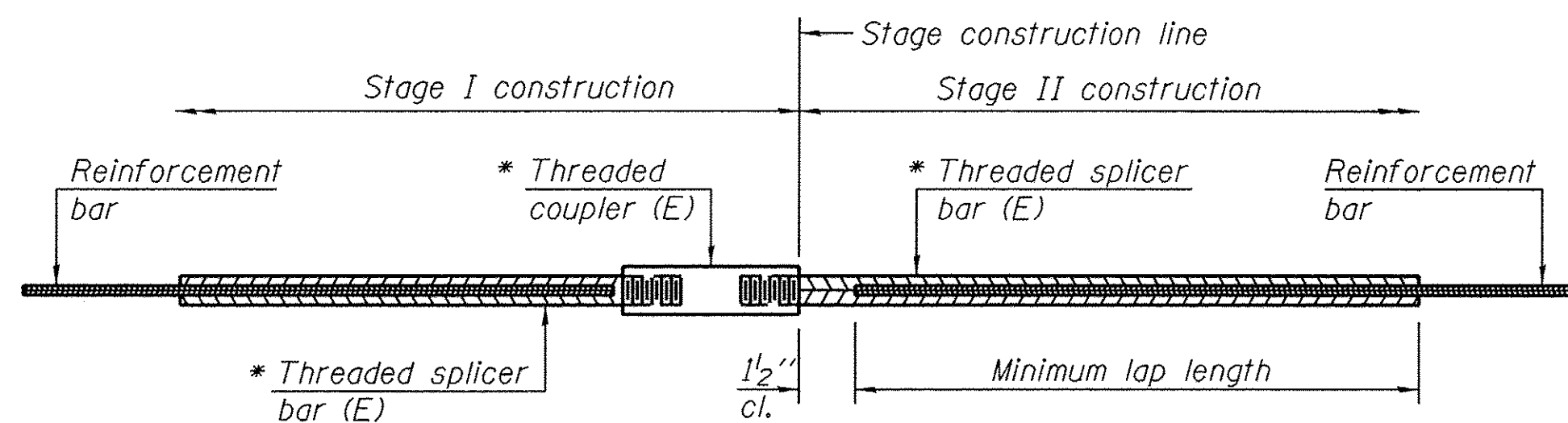
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PLOT SCALE = \$SCALE\$	CHECKED - DLS	REVISED -
PLOT DATE = 10/24/2016	DRAWN - JMM	REVISED -
	CHECKED - DLS	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HP PILE DETAILS
STRUCTURE NO. 045-3030**

SHEET NO. 18 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	113
CONTRACT NO. 61D20				
FED. ROAD DIST. NO.	FED. AID PROJECT			



STANDARD BAR SPLICER ASSEMBLY

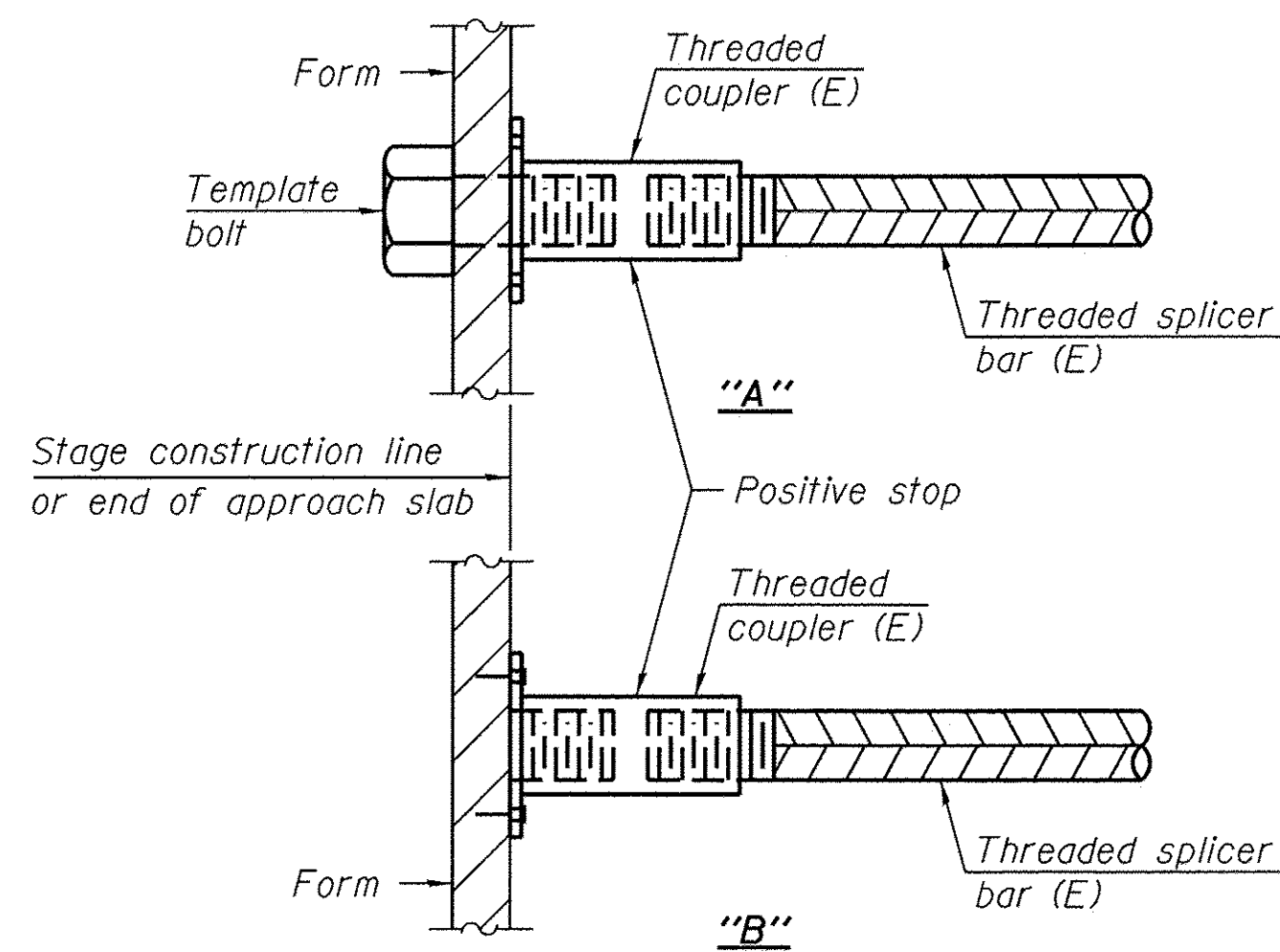
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

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

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

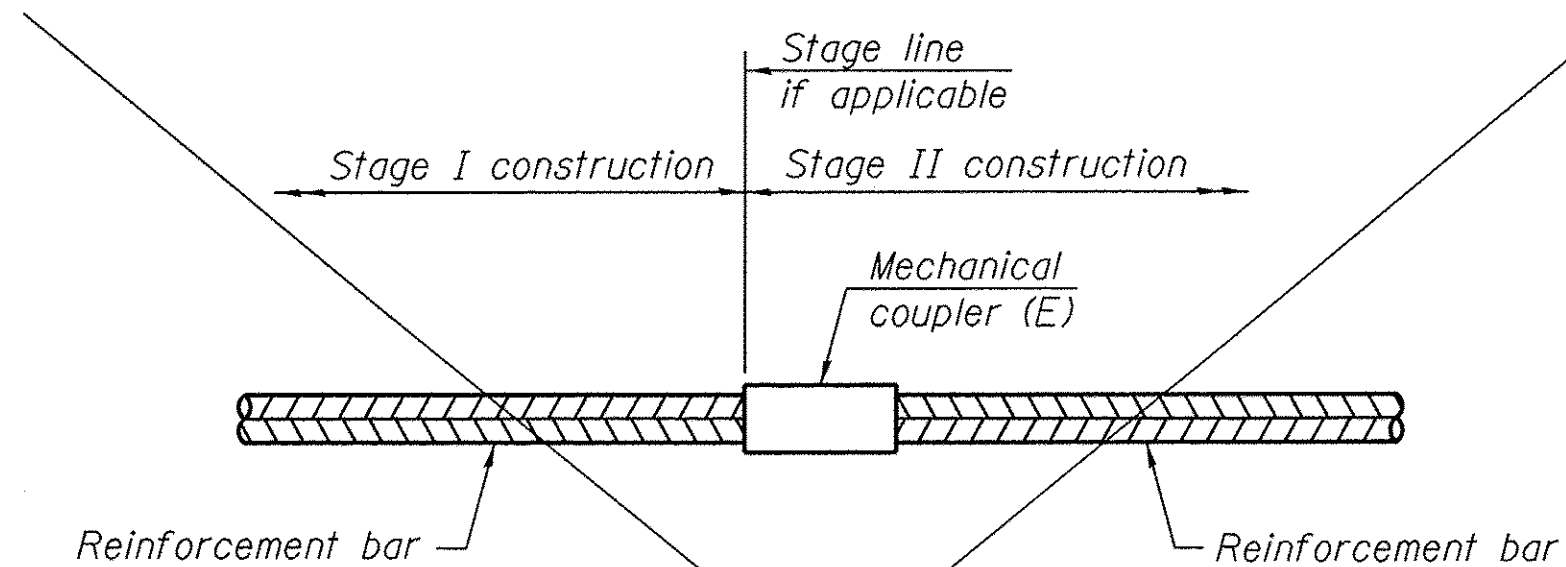
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck, Top	#5	167	Table 3
Deck, Bottom	#5	101	Table 3
South Diaphragm	#6	7	Table 3
North Diaphragm	#6	7	Table 3
South Approach Slab, Top	#4	25	Table 4
South Approach Slab, Bottom	#5	46	Table 3
South Approach Footing	#5	40	Table 3
North Approach Slab, Top	#4	25	Table 4
North Approach Slab, Bottom	#5	46	Table 3
North Approach Footing	#5	40	Table 3
South Abutment, Top	#7	4	Table 4
South Abutment, Bottom	#7	4	Table 3
South Abutment, Sides	#5	10	Table 3
North Abutment, Top	#7	4	Table 4
North Abutment, Bottom	#7	4	Table 3
North Abutment, Sides	#5	10	Table 3



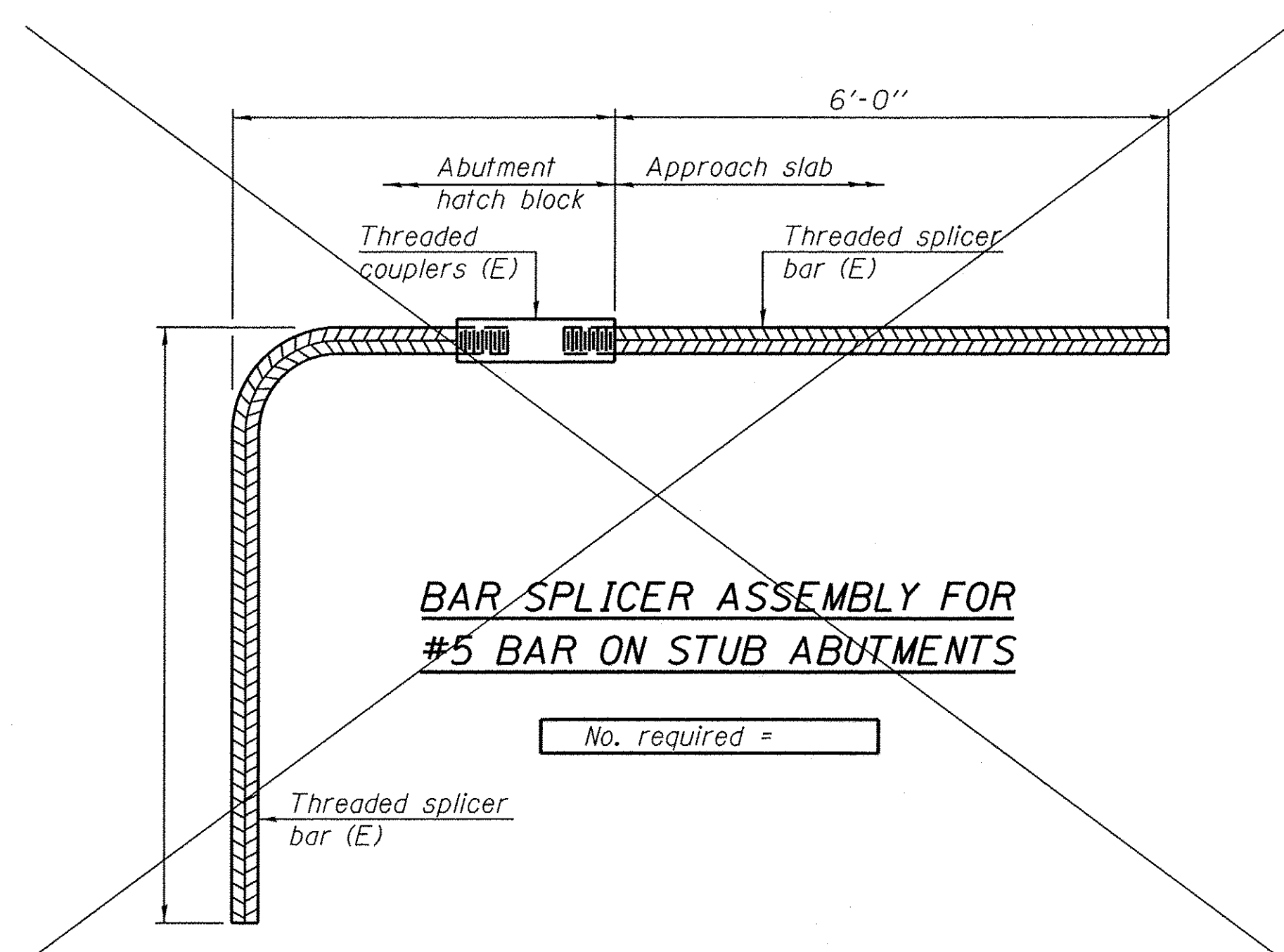
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



NOTES

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

FILE NAME = W:\Projects\2013\130282 B115 PH11\cadd\Structure\045\02-01-Br- Splicer- Assembly Details.dgn

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 ST. CHARLES, ILLINOIS 60174
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY DETAILS
 STRUCTURE NO. 045-3030**

SHEET NO. 19 OF 24 SHEETS

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 114
FED. ROAD DIST. NO.		FED. AID PROJECT		

CONTRACT NO. 61D20

Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 1

Date Started 8/4/10

Date Completed 8/4/10

ROUTE 9 DESCRIPTION Bridge over Blackberry Creek

SECT. 08-00058-02-BR STRUCT. NO. 045-3030 DRILLED BY TSC L-75.421

COUNTY Kane LOCATION Bliss Road S. 9SE1/4, TWP. 38, RNG. 7

Boring No.	Station	Offset	Surface Elev.	D	E	B	L	W	Qu	W	Surface Water Elev.	D	E	B	L	W	Qu	W	
SB-1		ft	ft	H	P	O	O	S	tsf	%		H	T	S	S	tsf	%		
			689.30								683.80								
			688.30								Medium dense to very dense gray SAND and GRAVEL, saturated A-1-a								
			686.30																
			681.30																
			678.80																
			676.30																
			674.30																
			671.30																
			666.30																

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

Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 1

Date Started 8/3/10

Date Completed 8/3/10

ROUTE 9 DESCRIPTION Bridge over Blackberry Creek

SECT. 08-00058-02-BR STRUCT. NO. 045-3030 DRILLED BY TSC L-75.421

COUNTY Kane LOCATION Bliss Road S. 9SE1/4, TWP. 38, RNG. 7

Boring No.	Station	Offset	Surface Elev.	D	E	B	L	W	Qu	W	Surface Water Elev.	D	E	B	L	W	Qu	W	
SB-2		ft	ft	H	P	O	O	S	tsf	%		H	T	S	S	tsf	%		
			691.60								680.6								
			690.60								Very dense gray SAND and GRAVEL, saturated A-1-a								
			686.10																
			683.60																
			678.60																
			676.10																
			671.10																
			668.60																

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

FILE NAME = W:\Projects\2013\130282_Bias_Phil\cedd\Structure\Borings\0453030-02B-Soil_Borings.dgn

ILDOT BORING 75421.GPJ IDOT.GDT 6/16/11

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 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

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	CHECKED - DLS	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS
 STRUCTURE NO. 045-3030**

SHEET NO. 20 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	115
FED. ROAD DIST. NO.		FED. AID PROJECT		
		CONTRACT NO. 61D20		

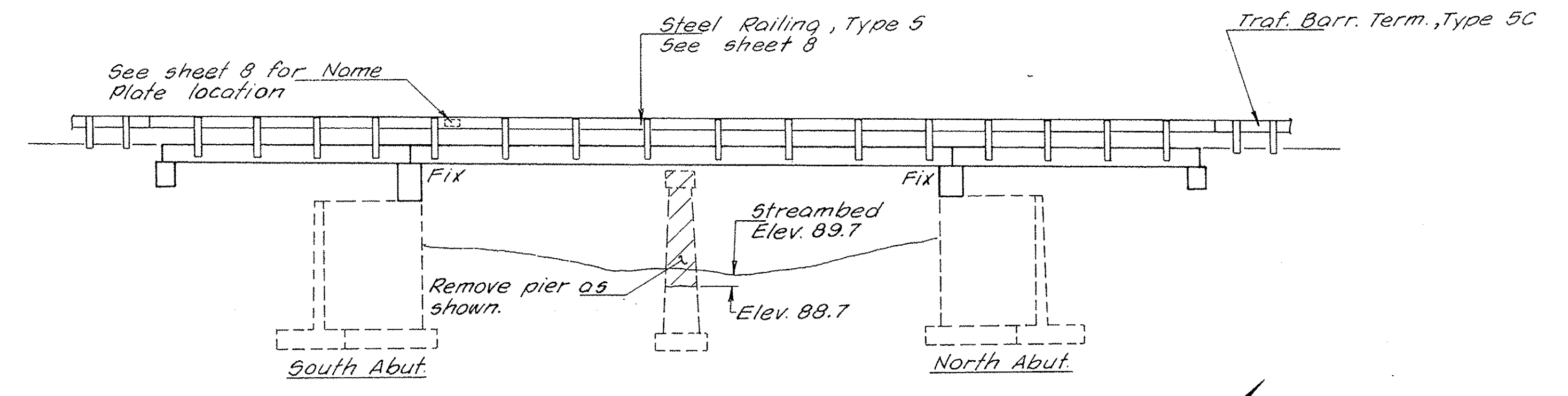
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 78	78-00058-01-BR	KANE	9	5
FED. ROAD DIST. NO.	ILLINOIS PROJECT			

BLISS ROAD

B.M. #1 - Chisled "X" on N.E. wingwall. Elev. = 100.00 (Assumed)
 B.M. #2 - R.R. spike in P.P. 54' Lt. Sta. 8+05. Elev. = 104.99
 Existing structure - 2 span cont. concrete slab on closed concrete abuts. & solid concrete pier. Contractor shall remove exist. deck & pier, reconstruct abuts. and build a new superstructure

GENERAL NOTES

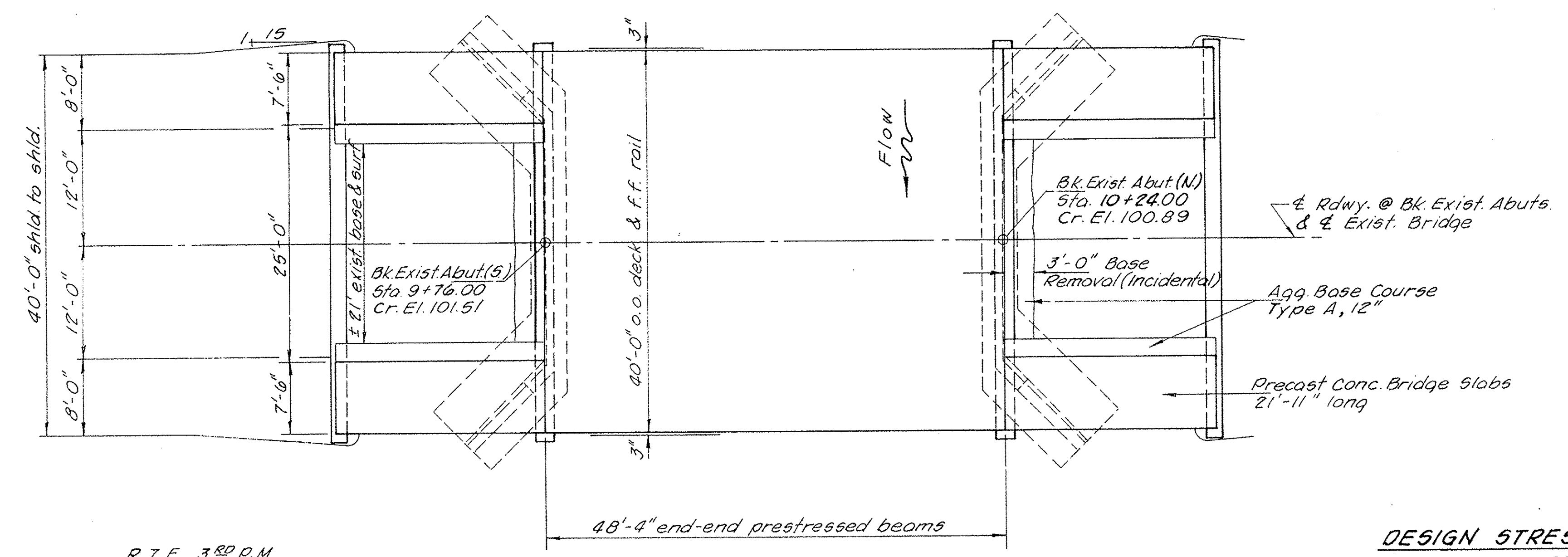
Class X Concrete shall be used thruout.
 It shall be the responsibility of the Contractor to verify all dimensions and conditions in the field prior to construction and ordering of materials.
 Expansion bolts shall consist of self drilling expansion anchors & 3/4" ϕ x 12" hooked bolts. Bolts shall extend 9" into new concrete.



ELEVATION

STRUCTURE NO. 045-3006
 BLACKBERRY CREEK
 REBUILT 19 BY
 KANE COUNTY
 SEC. 78-00058-01-BR
 LOADING HS 20

LETTERING FOR NAME PLATE
 See Sfd 2113



PLAN

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each	1		1
Concrete Removal	Cu. Yd.		10.4	10.4
Expansion Bolts 3/4" x 12"	Each		40	40
Class X Concrete	Cu. Yd.		34.0	34.0
Reinforcement Bars	Pound		7,840	7,840
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	1,933		1,933
Precast Concrete Bridge Slab	Sq. Ft.	658		658
P.C. Mortar Fairing Course	Lin. Ft.	110		110
Waterproofing Membrane System	Sq. Yd.	288		288
Leveling Binder (Machine Method)	Ton	15		15
Bit. Conc. Surf. Cree., Mixture D, C.I. I	Ton	3.5		3.5
Steel Railing, Type 5	Lin. Ft.	188		188
Name Plates	Each	1		1
Aggregate Base Course, Type A 12"	Sq. Yd.		29	29

DESIGN STRESSES

PRECAST PRESTRESSED UNITS
 $f'_c = 5,000$ p.s.i.
 $f'_{ci} = 4,100$ p.s.i.
 $f'_s = 270,000$ p.s.i. (1/2" ϕ strands)
 $f_{si} = 189,000$ p.s.i. (1/2" ϕ strands)

FIELD UNITS
 $f_c = 1,400$ p.s.i.
 $f_s = 20,000$ p.s.i.
 $n = 9$

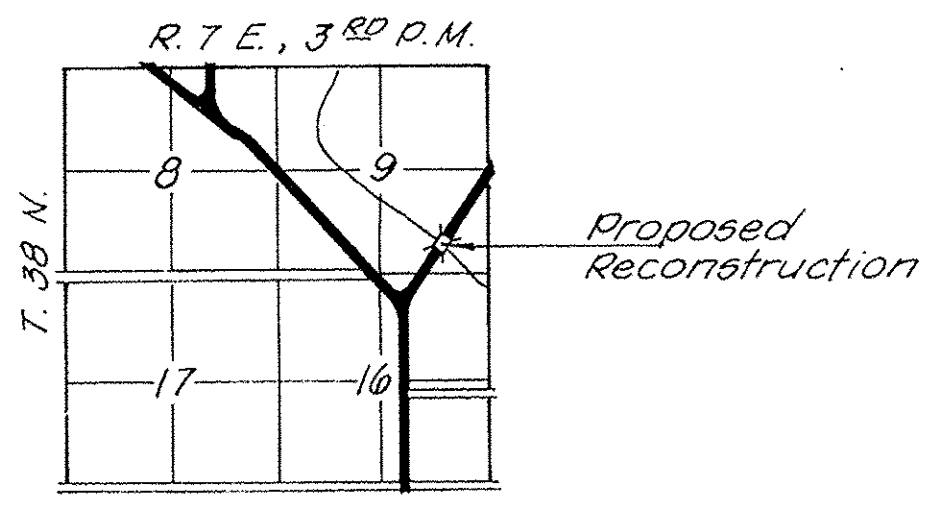
PRECAST UNITS
 $f_c = 1,400$ p.s.i.
 $f_s = 20,000$ p.s.i.
 $f_c = 4,500$ p.s.i.
 $n = 8$

DESIGN SPECIFICATIONS: A.A.S.H.T.O. 1977 & 1978 Interim

Fred P. Steinhilber
 Illinois Structural No. 2934

APPROVED

FOR STRUCTURAL ADEQUACY ONLY
Collins and Rice
 Engineer of Bridge & Traffic Structures



LOCATION SKETCH

WATERWAY DATA

Drainage Area ----- 24.6 Sq. Mi.
 Computed Discharge (30 Yr.) ----- 1,100 C.F.S.
 Existing Opening ----- 310 Sq. Ft.
 Required Opening ----- 310 Sq. Ft.
 Proposed Opening ----- 325 Sq. Ft.

GENERAL PLAN & ELEVATION
 BLISS ROAD
 SECTION 78-00058-01-BR
 KANE COUNTY

COLLINS AND RICE
 CONSULTING ENGINEERS
 DESIGNED F.S. CHECKED L.L.
 DRAWN L.L. DATE 5-22-79 NO. 1329

FOR INFORMATION ONLY

FILE NAME: \\fsprojects\2013\130282 Bliss PH11\cadd\Structural\Drawn\0453006-021-Existing Plans 1.dgn

WBK engineering
 WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

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PLOT SCALE = #SCALE#	CHECKED - DLS	REVISED -
PLOT DATE = 10/21/2016	DRAWN - JMM	REVISED -
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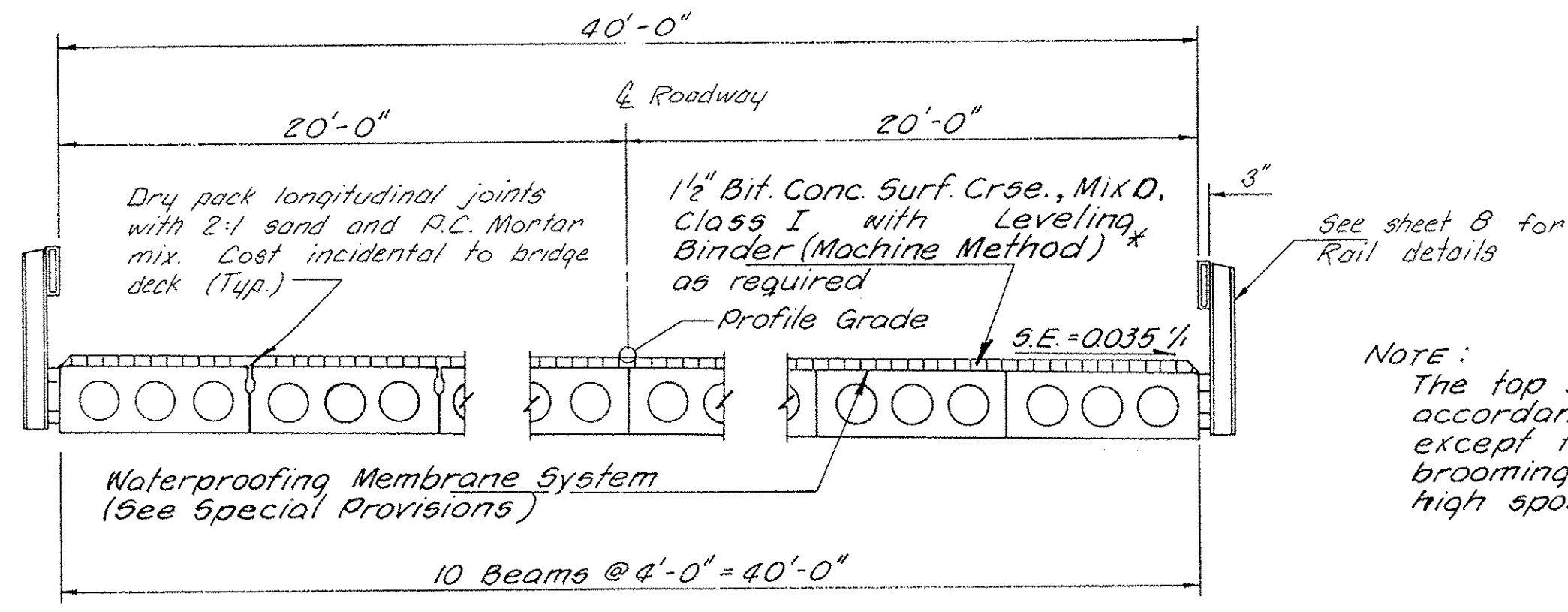
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING PLANS I
 SHEET NO. 21 OF 24 SHEETS

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 116
FED. ROAD DIST. NO.			FED. AID PROJECT	

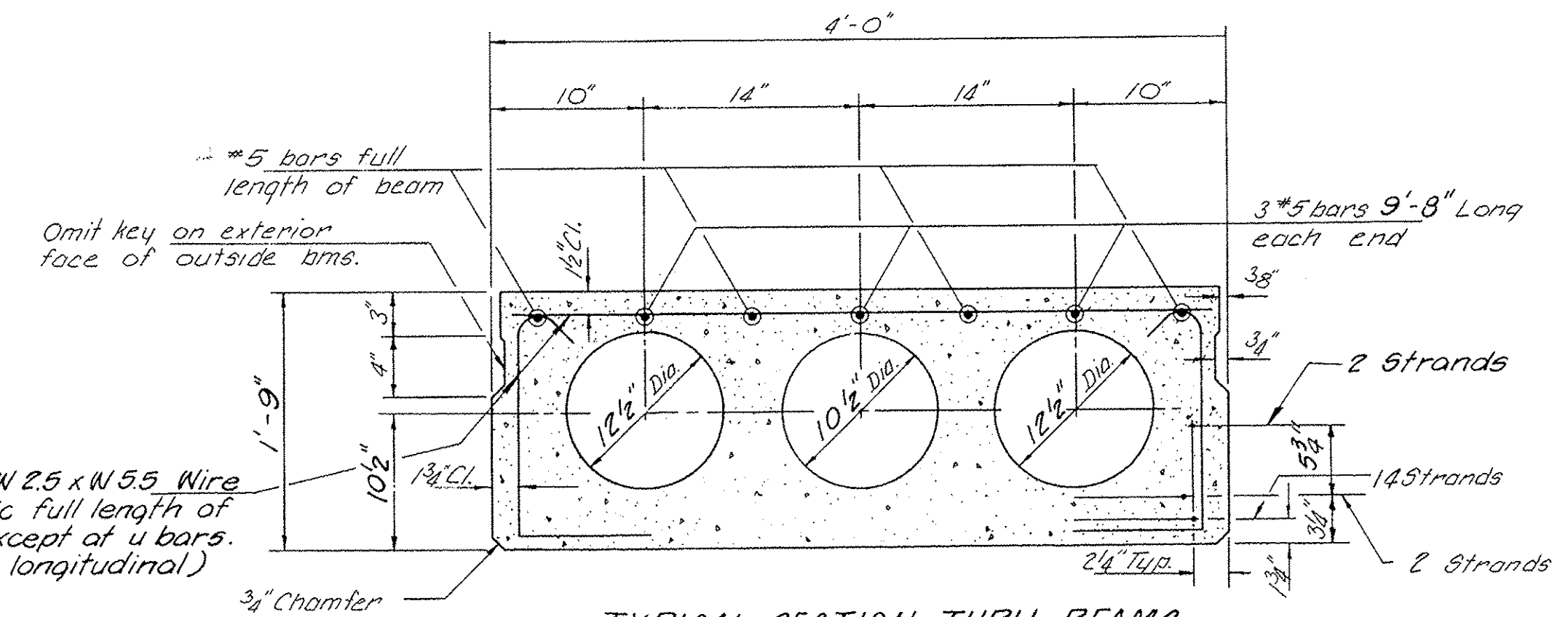
CONTRACT NO. 61D20

SECTION	RTE NO.	COUNTY	TOTAL SHEETS	SHEET NO.
78-00058-01-BR	78	KANE	9	6
Bliss Road				



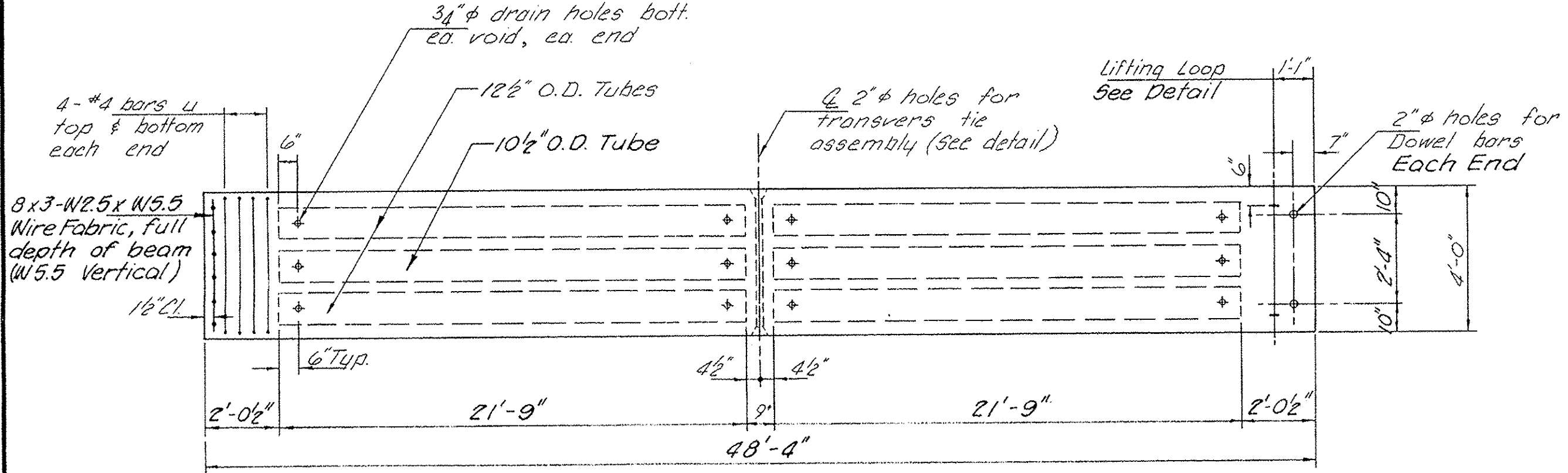
*Use Surf. Crse., Mix D as Leveling Binder
CROSS SECTION
Looking South

NOTE:
The top surface of beams shall be finished in accordance with Art. 505.06 of the Standard Spec's except the surface shall not be roughened by brooming. The finished surface shall be free of high spots or depressions having sharp corners.



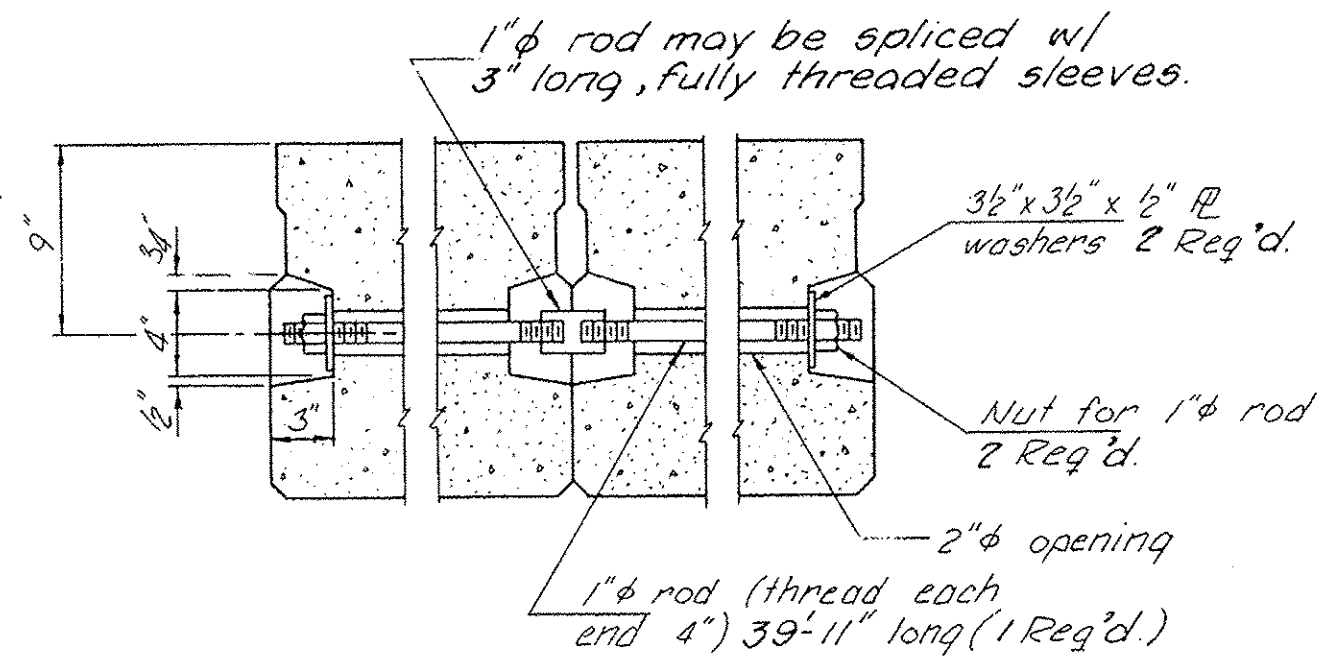
TYPICAL SECTION THRU BEAMS

18-7 wire 1/2" strands stressed to 28,900 lb. each. Strands shall be non-galvanized extra strength stress relieved. Place strands symmetrically about C. beam. Cross sectional area of strands shall be 0.153 sq. in. Use standard grid pattern.



TYPICAL PLAN OF BEAMS

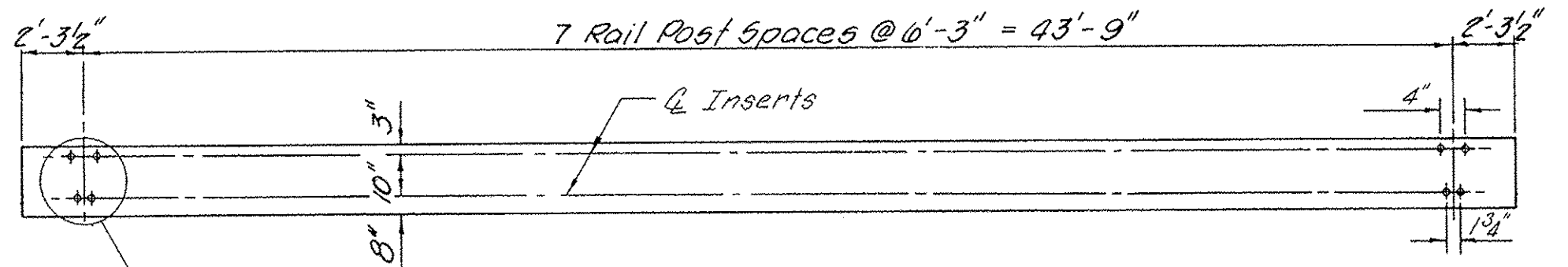
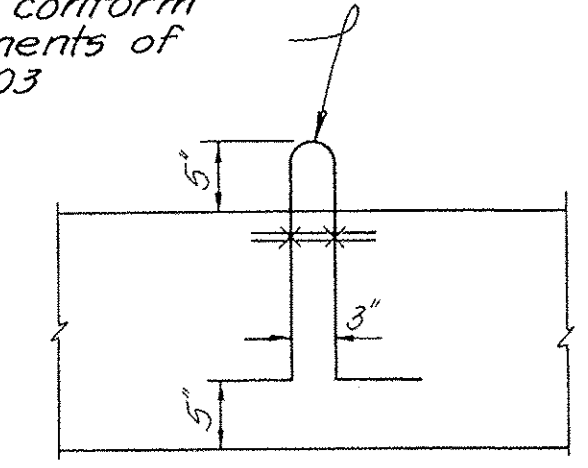
Strands shall conform to the requirements of A.A.S.H.T.O. M203



TRANSVERSE TIE BAR ASSEMBLY

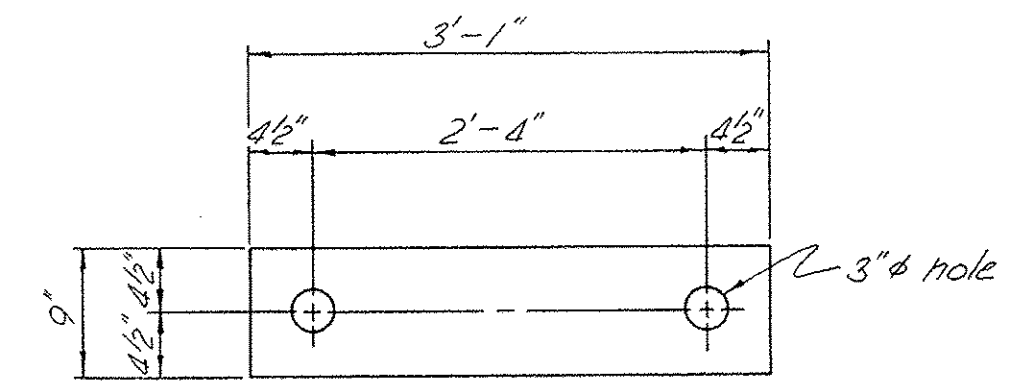
LIFTING LOOP DETAILS

3-1/2" strands 1 Loop, 2 ea. end, ea. beam. Loops shall be burned off after beams are in place. Approved alternates may be substituted for above.

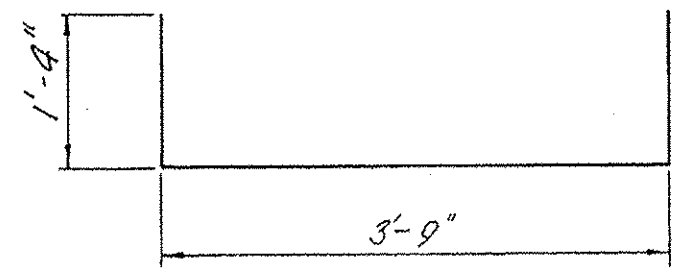


ELEVATION

Note: Rail post shall be vertical

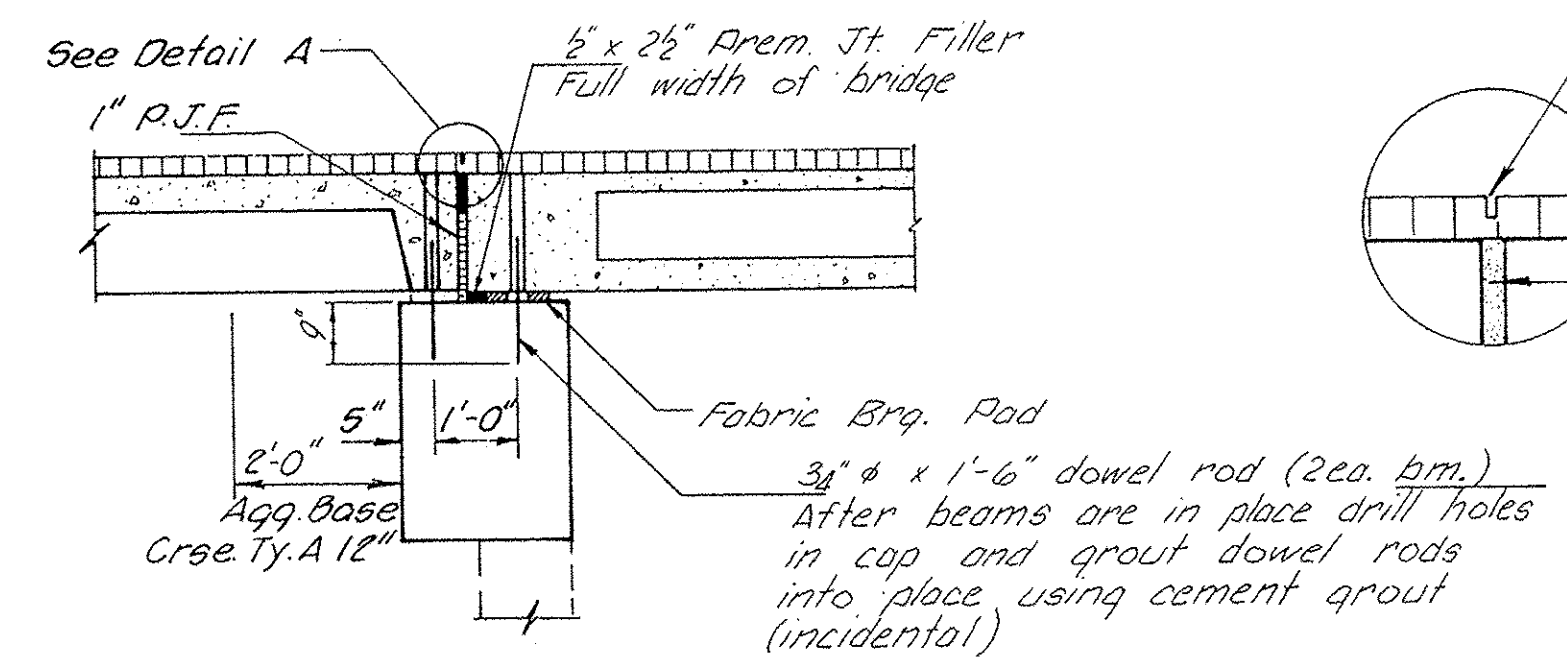


BEARING PAD DETAILS

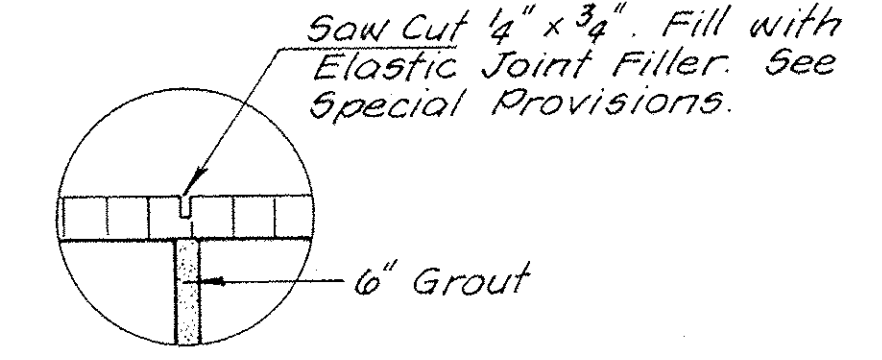


BAR U

Note: Reinforcement bars shall conform to A.A.S.H.T.O. M-31 or M-53, Grade 60.



SECTION AT ABUTMENTS



BILL OF MATERIAL

ITEM	QUANTITY
Precast Prestressed Concrete Deck Beams (21 Depth)	Sq.Ft. 1,933
P.C. Mortar Fairing Course	Lin.Ft. 110
Waterproofing Mem Sys.	Sq. Yd. 288
Level. Binder (Mach. Meth.)	Ton 15
Bit. Conc. Surf. Crse., Mix D, Cl. I	Ton 35

SUPERSTRUCTURE
BLISS ROAD
SECTION 78-00058-01-BR
KANE COUNTY

COLLINS AND RICE
CONSULTING ENGINEERS
DESIGNED F.S. CHECKED L.L.
DRAWN L.L. DATE 5-22-19 NO. 1329

FOR INFORMATION ONLY

FILE NAME = M:\Projects\2013\130282 - Bliss PHII\load\Structural\Drawn\453820-022-Existing Plans II.dgn

WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

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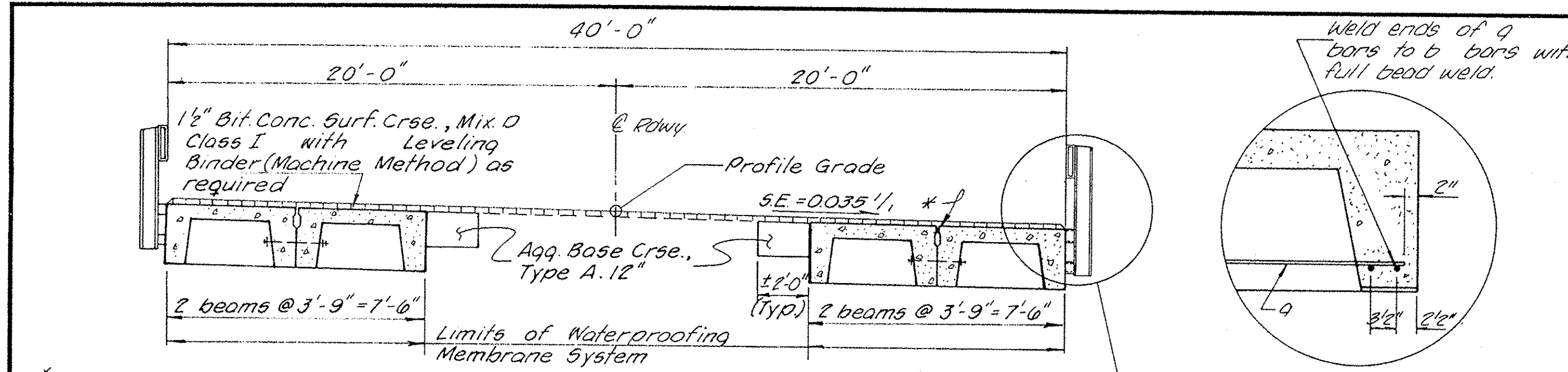
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS II
SHEET NO. 22 OF 24 SHEETS

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 117
FED. ROAD DIST. NO.		FED. AID PROJECT		
CONTRACT NO. 61D20				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 78	78-00058-01-BR	KANE	9	7
FED. ROAD DIST. NO. 7		ILLINOIS PROJECT		

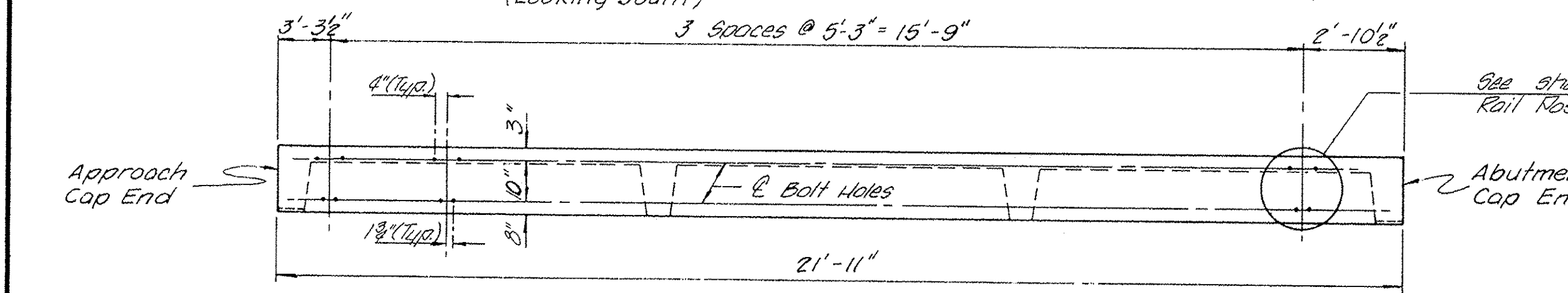
BLISS ROAD



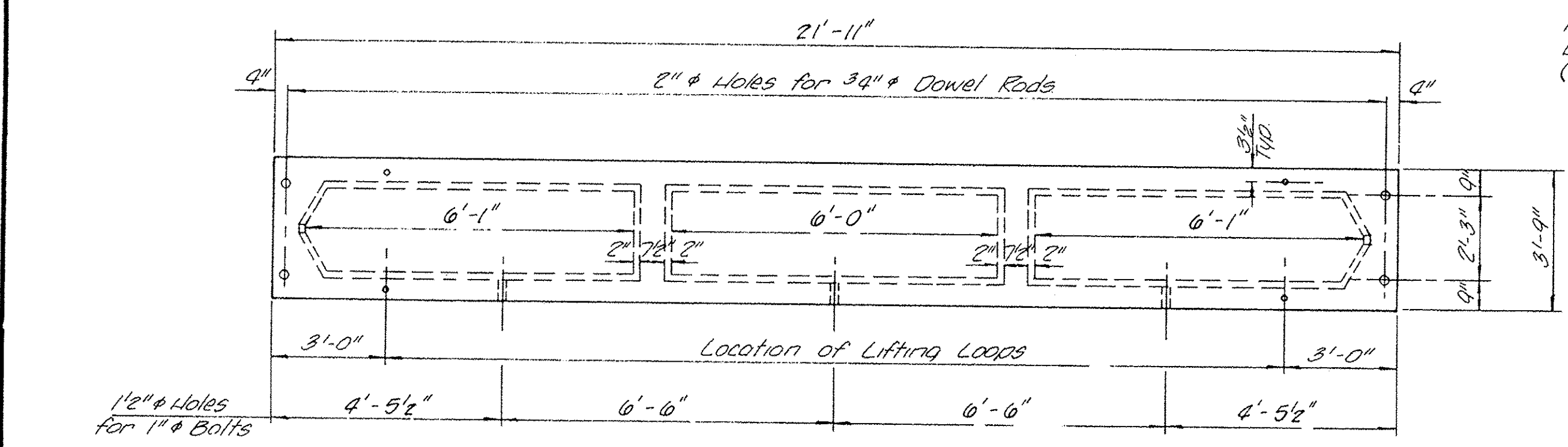
* Dry pack long joints w/2:1 sand & PC Mortar mix. (Typ.) incidental to bridge deck

CROSS SECTION
(Looking South)

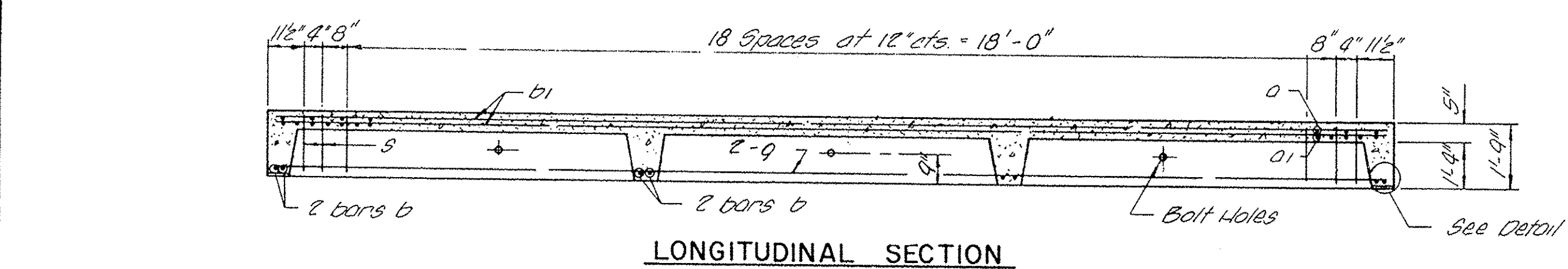
DETAIL A



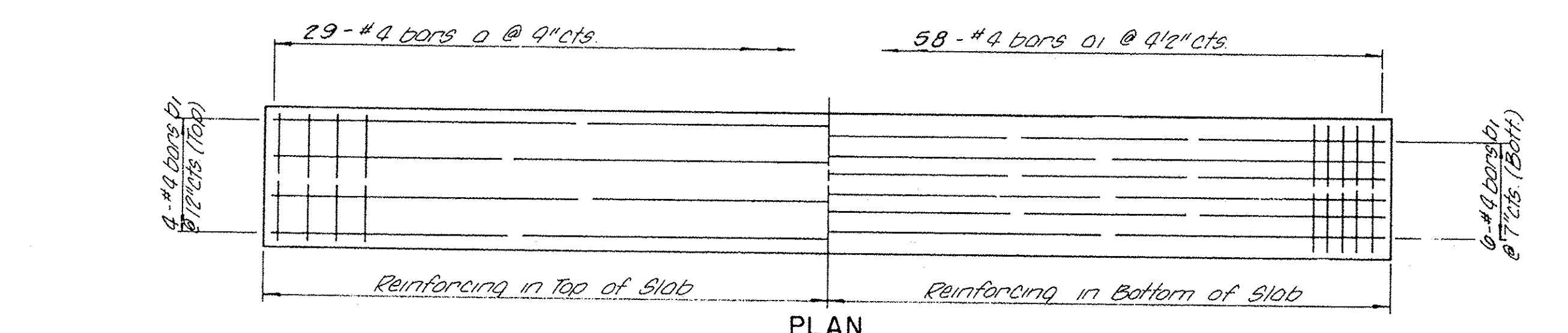
ELEVATION



PLAN



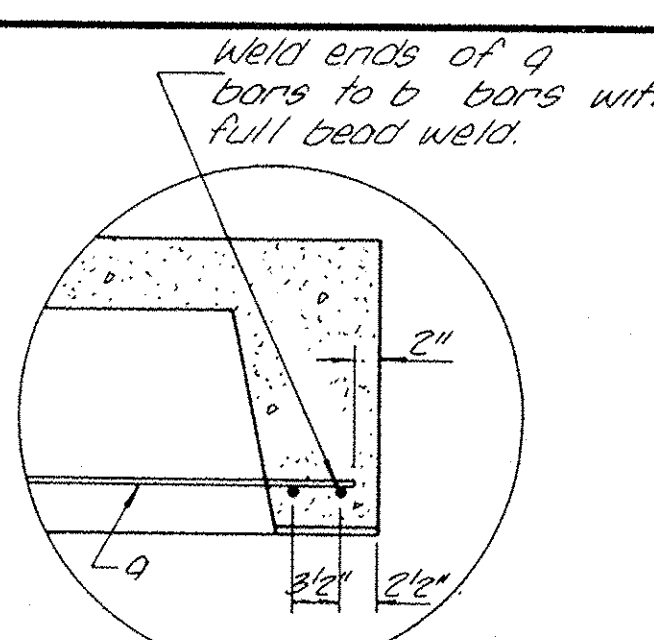
LONGITUDINAL SECTION



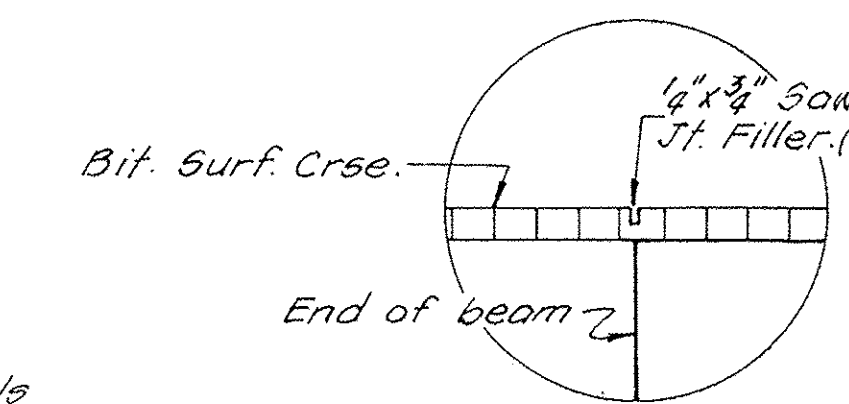
PLAN

Showing Slab Reinforcement

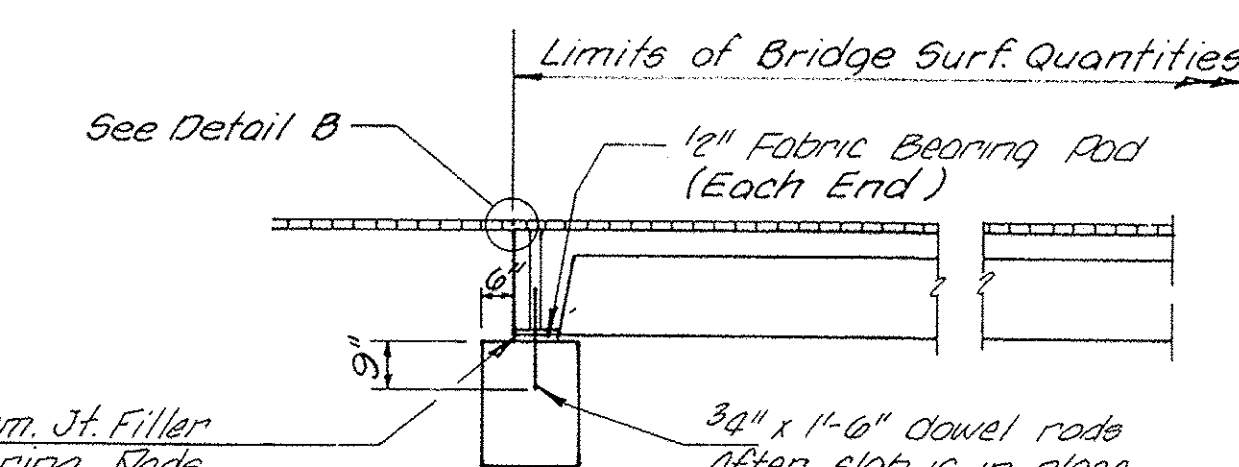
Note: Rock welding of stirrups to bottom longitudinal reinforcement bars will not be permitted except as otherwise authorized in writing by the Engineer.



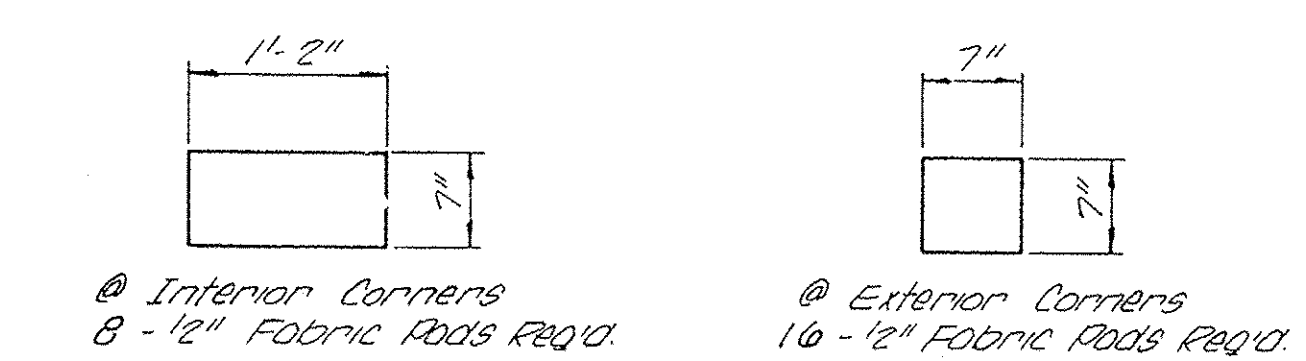
DETAIL A



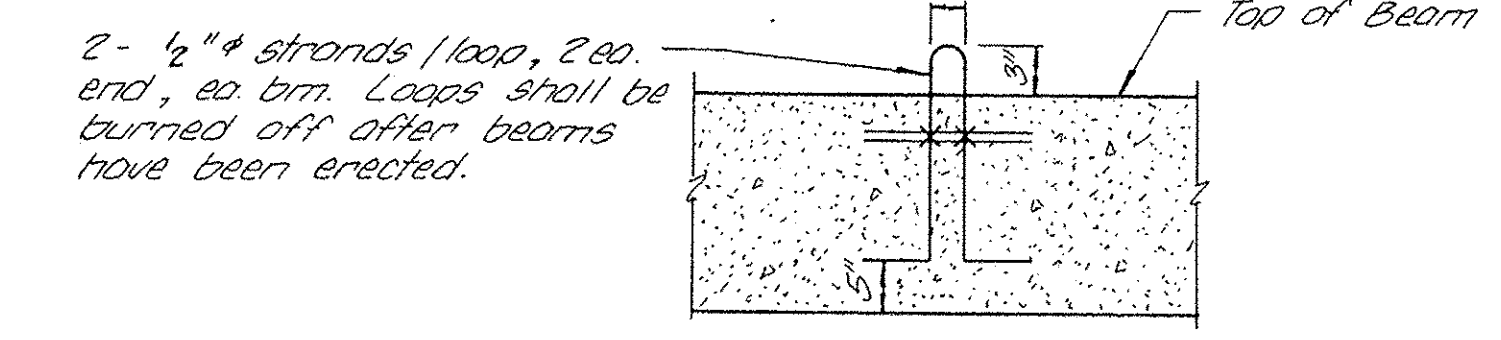
DETAIL B



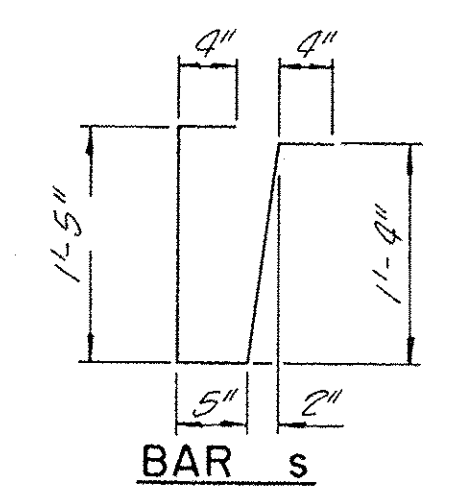
SECTION AT APPROACH CAP



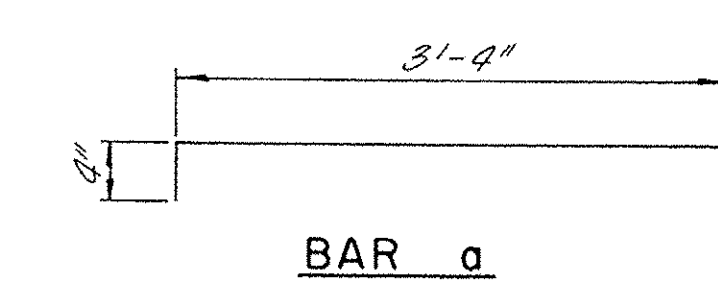
BEARING PAD DETAIL



LIFTING LOOP DETAIL

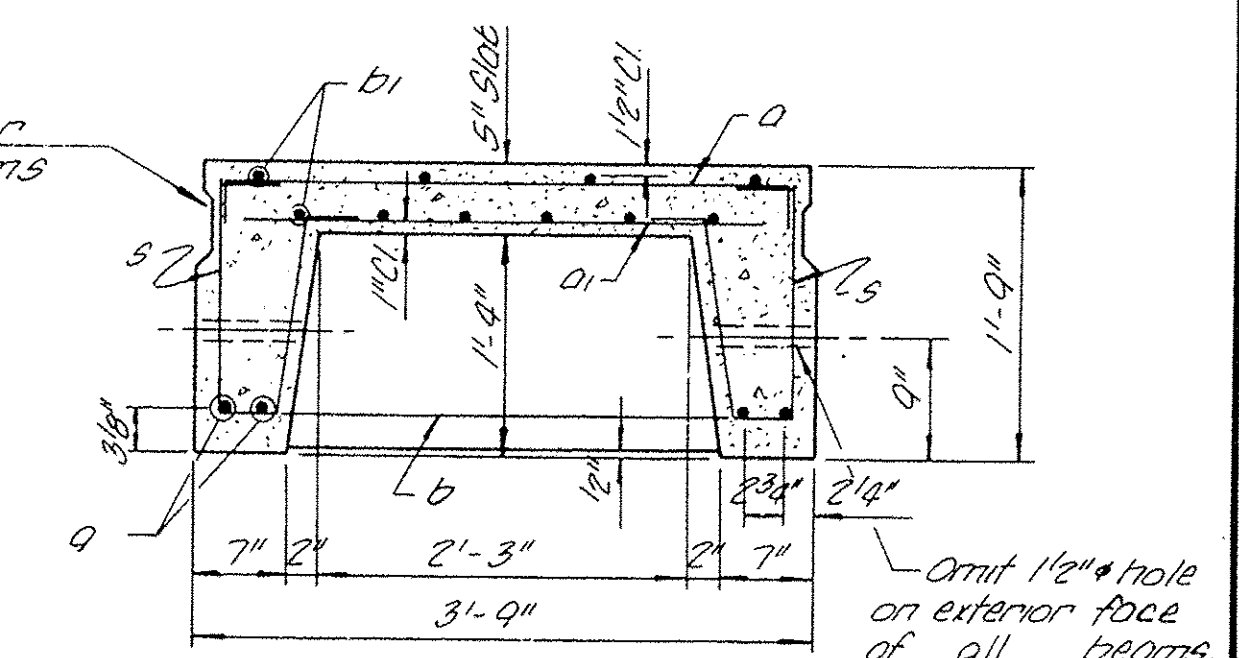


BAR s



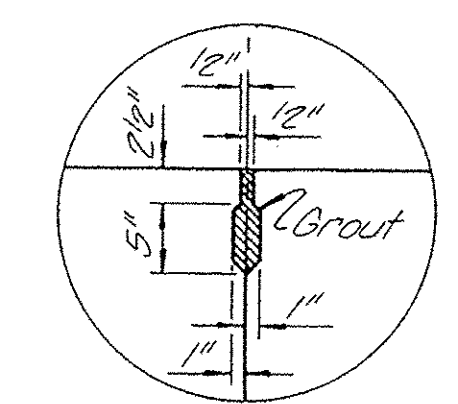
BAR a

Omit key on exterior face of all beams



TYPICAL SECTION THRU BEAM

NOTE: The bridge slab shall be erected & aligned with the exterior face of the exterior deck beams after the deck is in final position.



KEY DETAIL

*** ESTIMATED QUANTITIES**

One Unit	Concrete Cu. Yd.	Reinf. Bars Lb.
	3.1	802

* For information of suppliers of Precast Slab Units only.

BILL OF MATERIAL - SUPERSTRUCTURE

Material	Sq. Ft.	Cu. Yd.
Precast Concrete Bridge Slab	658	
Aggregate Base Course, Ty. A 12"		29

BILL OF REINFORCEMENT BARS

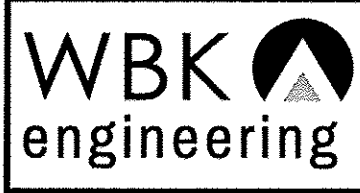
BAR SIZE	NO.	LENGTH
o	#4 29	4'-0"
o1	#4 58	3'-3"
b	#4 8	3'-6"
b1	#4 10	21'-6"
a	#10 4	21'-6"
s	#3 46	3'-10"

APPROACH SLABS
BLISS ROAD
SECTION 78-00058-01-BR
KANE COUNTY

COLLINS AND RICE
CONSULTING ENGINEERS
DESIGNED F.S. CHECKED L.L.
DRAWN L.L. DATE 5-22-79 NO. 1329

FOR INFORMATION ONLY

FILE NAME = W:\Projects\2013\120282 Bliss PH\Road\Structure\Drawings\023-Existing Plans III.dgn



WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS III

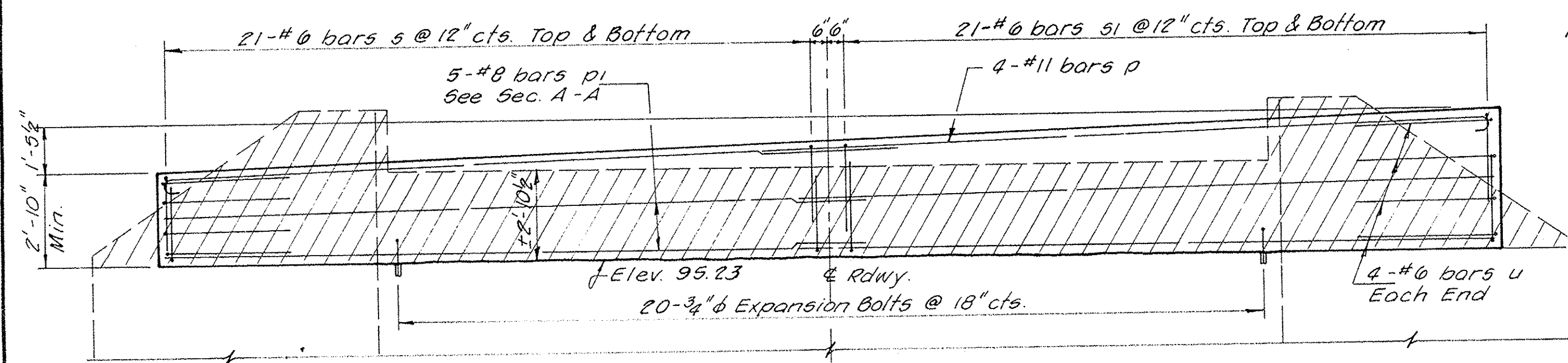
SHEET NO. 23 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	118
FED. ROAD DIST. NO.			FED. AID PROJECT	

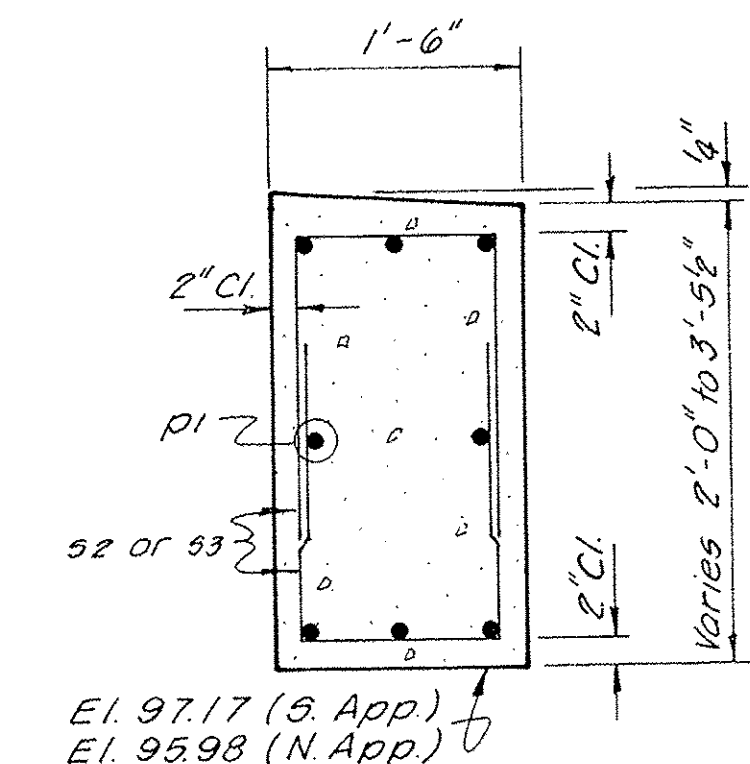
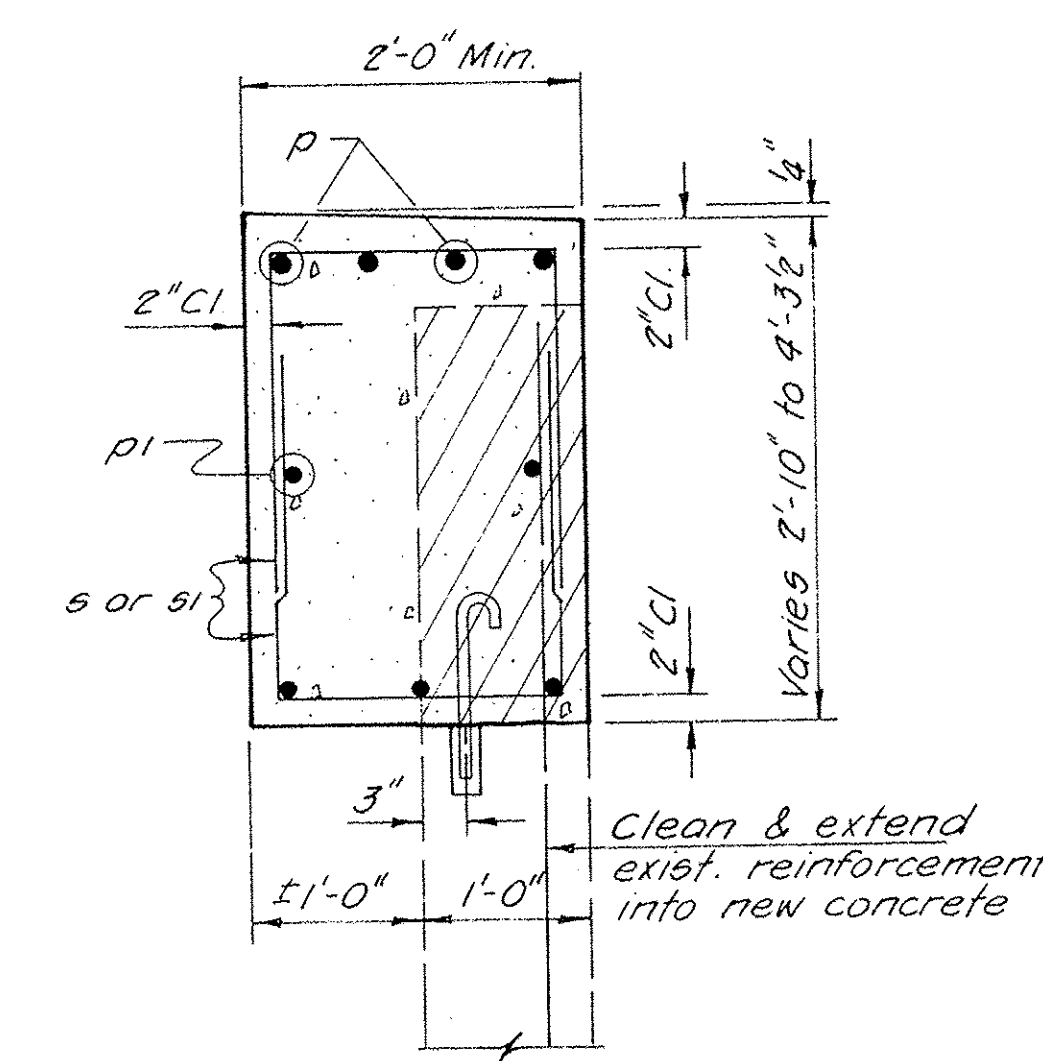
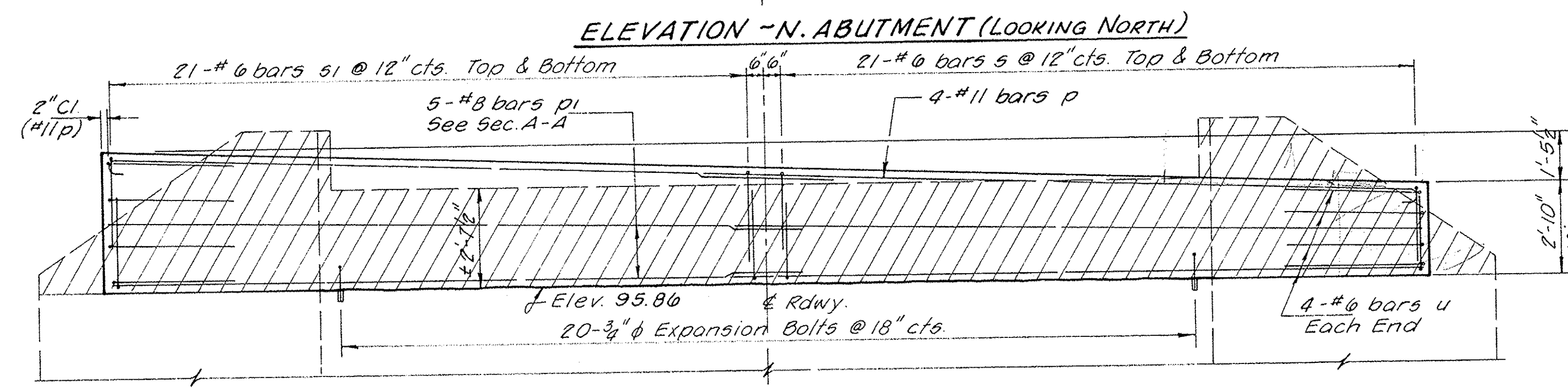
CONTRACT NO. 61D20

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CH 78	78-00058-01-BR	KANE	9	9
FED. ROAD DIST. NO. 7	ILLINOIS PROJECT			

BLISS ROAD

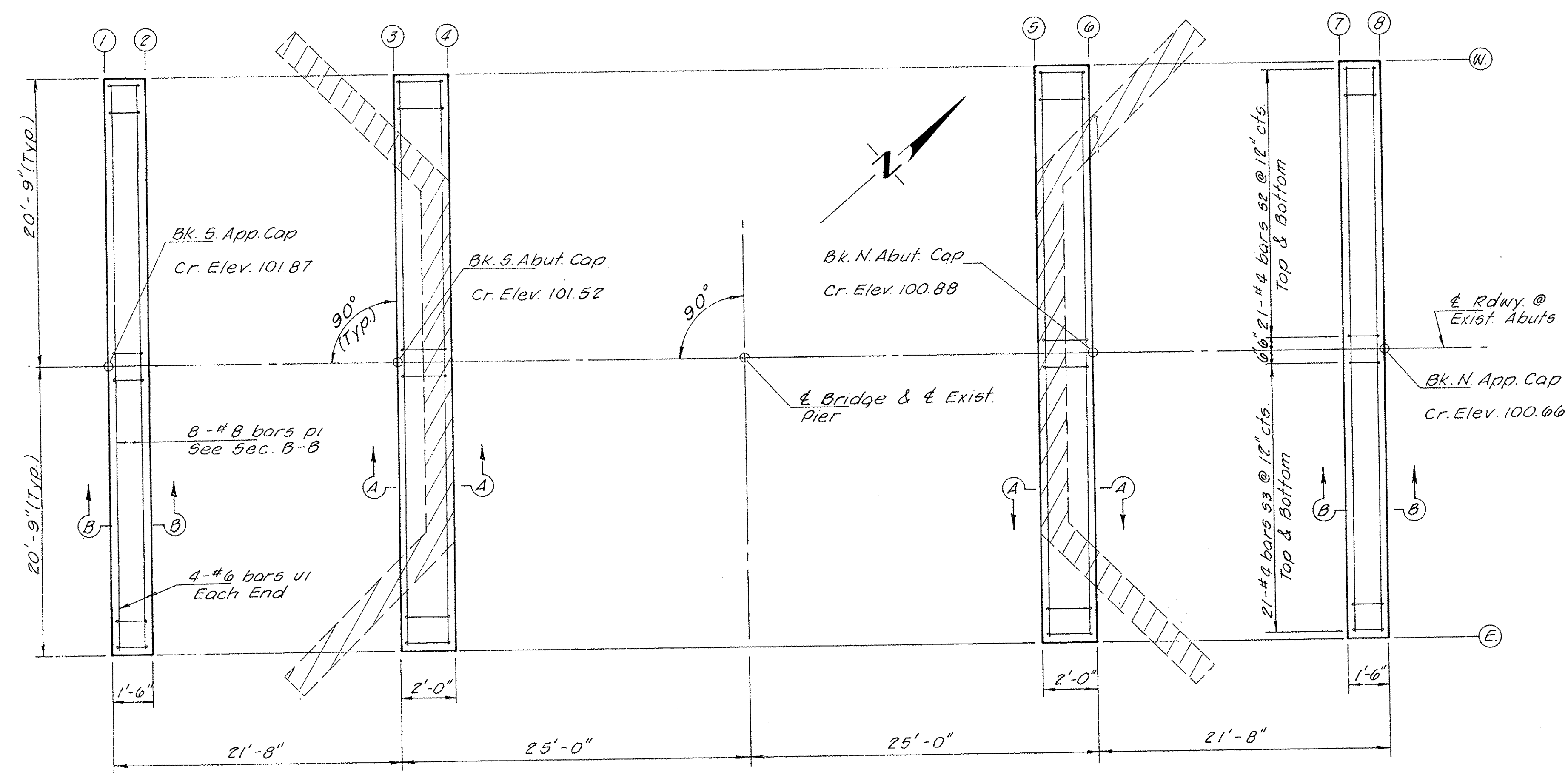
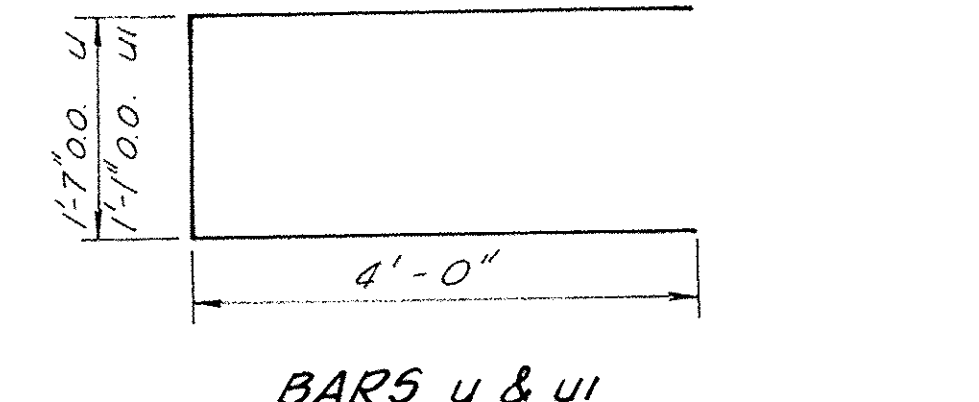
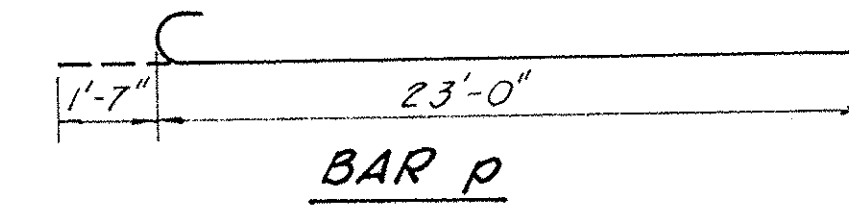


NOTE:
All edges shall have standard 3/4" chamfer.
Space reinforcement in cap to miss dowel rods.



SECTION B-B
El. 97.17 (S. App.)
El. 95.98 (N. App.)

SECTION A-A
S. abut. shown. N. abut. similar except for slope at top of cap



PLAN

BARS s, s1, s2 & s3

	A	B
s	1'-8"	2'-4"
s1	1'-8"	2'-8"
s2	1'-2"	1'-8"
s3	1'-2"	2'-2"

BILL OF MATERIAL
ABUTMENTS & APPROACHES

BAR	No. Req'd	SIZE	LENGTH	SHAPE
p	16	#11	24'-7"	U
p1	52	#8	22'-0"	U
s	84	#6	6'-4"	U
s1	84	#6	7'-0"	U
s2	84	#8	4'-6"	U
s3	84	#4	5'-6"	U
u	16	#6	9'-7"	U
u1	16	#6	9'-1"	U
Concrete Removal				Cu. Yd. 10.4
Expansion Bolts 3/4" Dia				Each 40
Class K Concrete				Cu. Yd. 34.6
Reinforcement Bars				Round 7,840

TOP OF CAP ELEVATIONS

LOCATION	W.	@ Rdwy.	E.
1	99.19	99.92	100.65
2	99.17	99.90	100.63
3	98.71	99.44	100.17
4	98.69	99.42	100.15
5	98.03	98.81	99.54
6	98.06	98.79	99.52
7	98.00	98.73	99.46
8	97.98	98.71	99.44

ABUTMENTS & APPROACH CAPS
BLISS ROAD
SECTION 78-00058-01-BR
KANE COUNTY

COLLINS AND RICE
CONSULTING ENGINEERS
DESIGNED F.S.
DRAWN L.L.
CHECKED L.L.
DATE 5-22-19 NO. 1329

FOR INFORMATION ONLY

FILE NAME: M:\Projects\2013\130282 Bliss Ph\I\cead\Structure\Drawings\0459030-02-Existing Plans IV.dgn

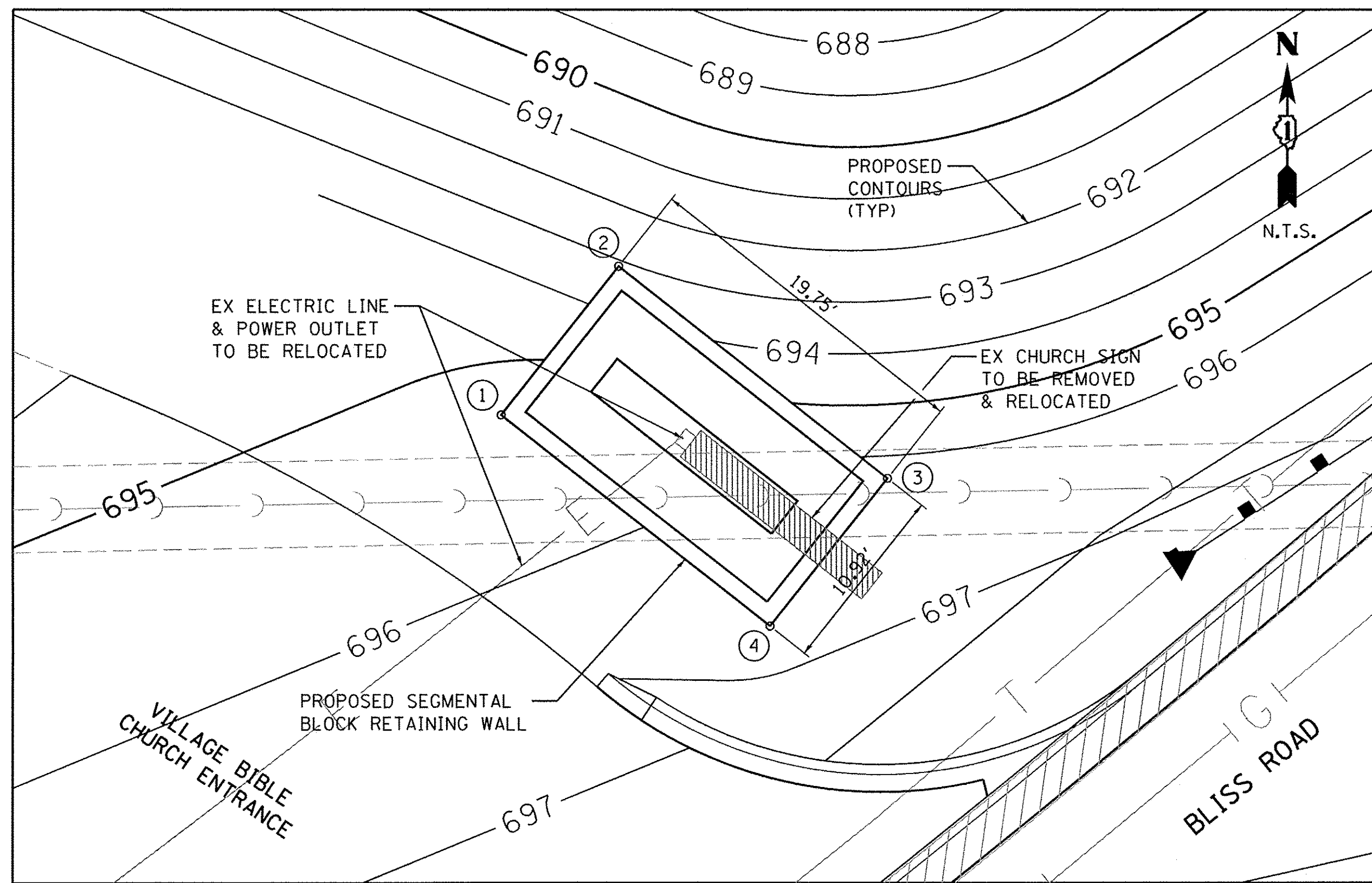
WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = #USER#	DESIGNED - JMM	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS IV
SHEET NO. 24 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	119
CONTRACT NO. 61D20				
FED. ROAD DIST. NO.	FED. AID PROJECT			



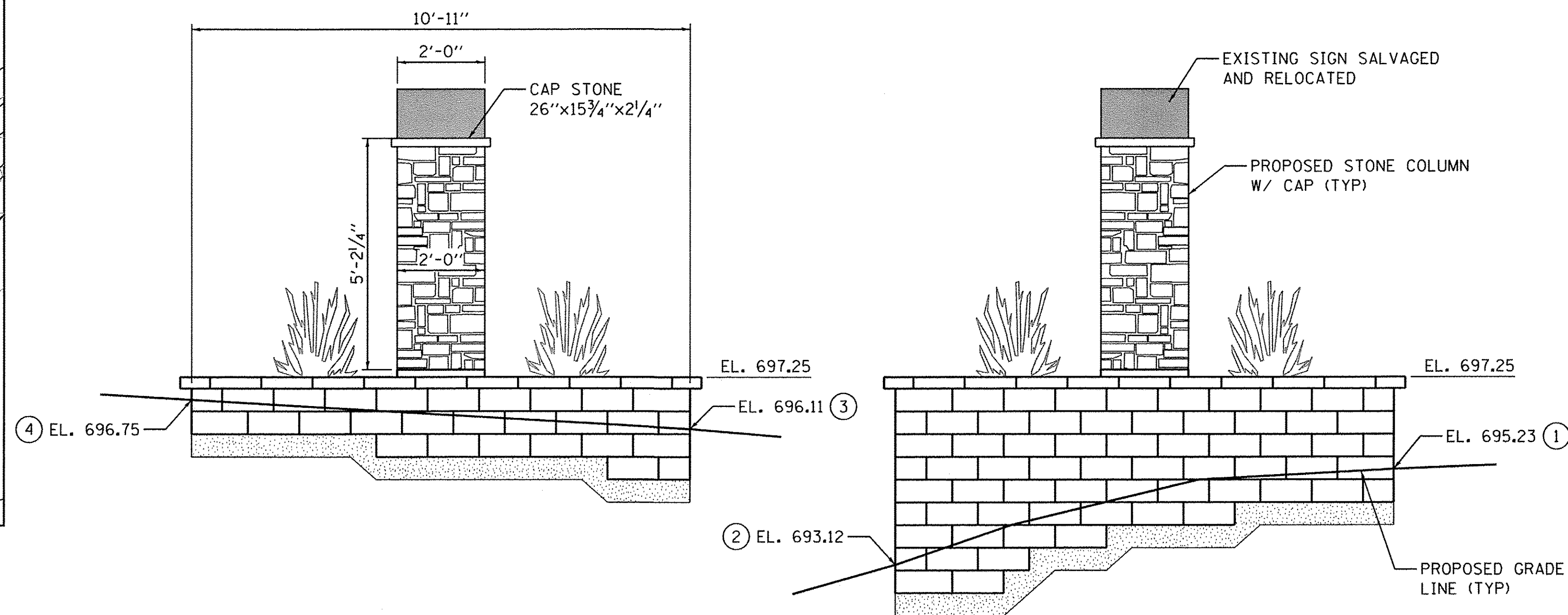
PLAN VIEW

RETAINING WALL LAYOUT TABLE

POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET
1	1862329.07	954996.64	695.23	13+60.3	60.4' LT
2	1862337.64	955003.40	693.12	13+71.6	62.8' LT
3	1862325.41	955018.90	696.11	13+76.0	43.5' LT
4	1862316.84	955012.14	696.75	13+64.9	41.1' LT

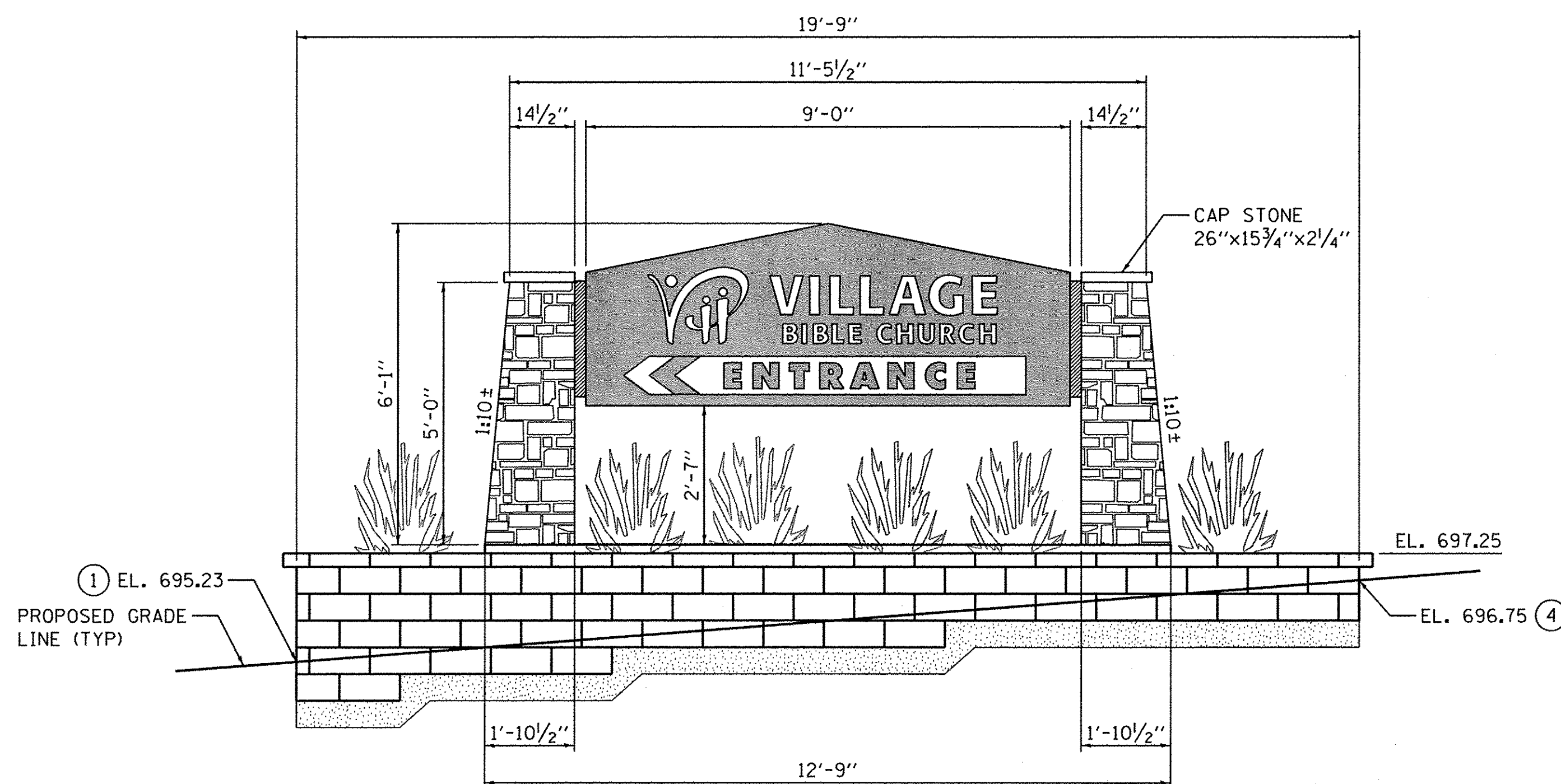
NOTES

1. ALL REQUIREMENTS FOR SEGMENTAL BLOCK WALL, INCLUDING SAMPLES AND SUBMITTALS, SHALL BE IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION XXXXXX OF THE STANDARD SPECIFICATIONS.
2. SEE SHEET 121 FOR CONCRETE PAD AND FOUNDATION DETAILS FOR THE SIGN.

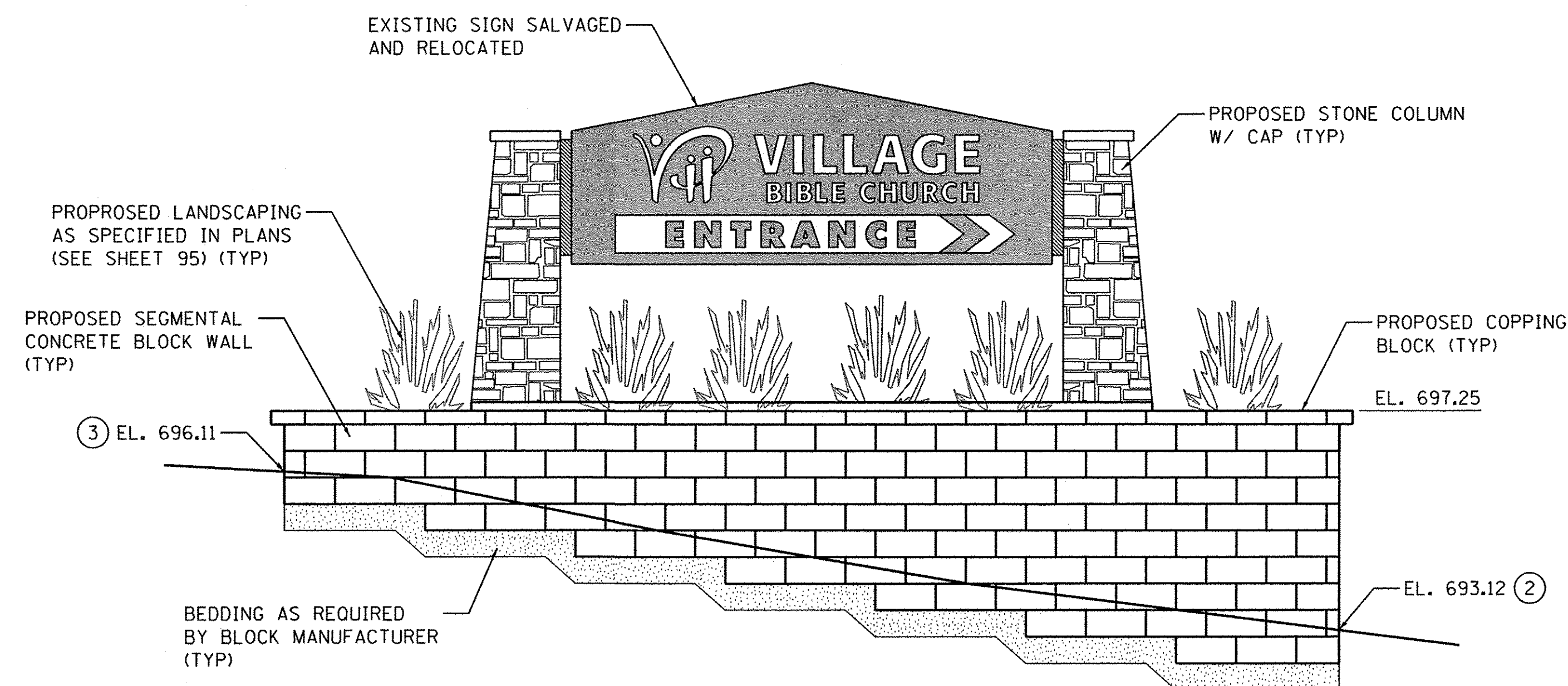


RIGHT ELEVATION VIEW
(LOOKING NORTHWEST)

LEFT ELEVATION VIEW
(LOOKING SOUTHEAST)



FRONT ELEVATION VIEW
(LOOKING NORTHEAST)



REAR ELEVATION VIEW
(LOOKING SOUTHWEST)

FILE NAME = W:\Projects\2013\130282_Bias_Phil\Lead\G:\1\Drawings\DT_01-CHURCHSIGN.dgn

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WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED -	REVISED -
PLOT SCALE = 1:2	DRAWN - NDP	REVISED -
PLOT DATE = 10/24/2016	CHECKED - SBP	REVISED -
	DATE - 8/8/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHURCH SIGN LAYOUT
& ELEVATION DETAILS

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

F.A.P. RTE. 520	SECTION 08-0058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 120
CONTRACT NO. 61D20				ILLINOIS FED. AID PROJECT

DESIGN STRESSES
FIELD UNITS

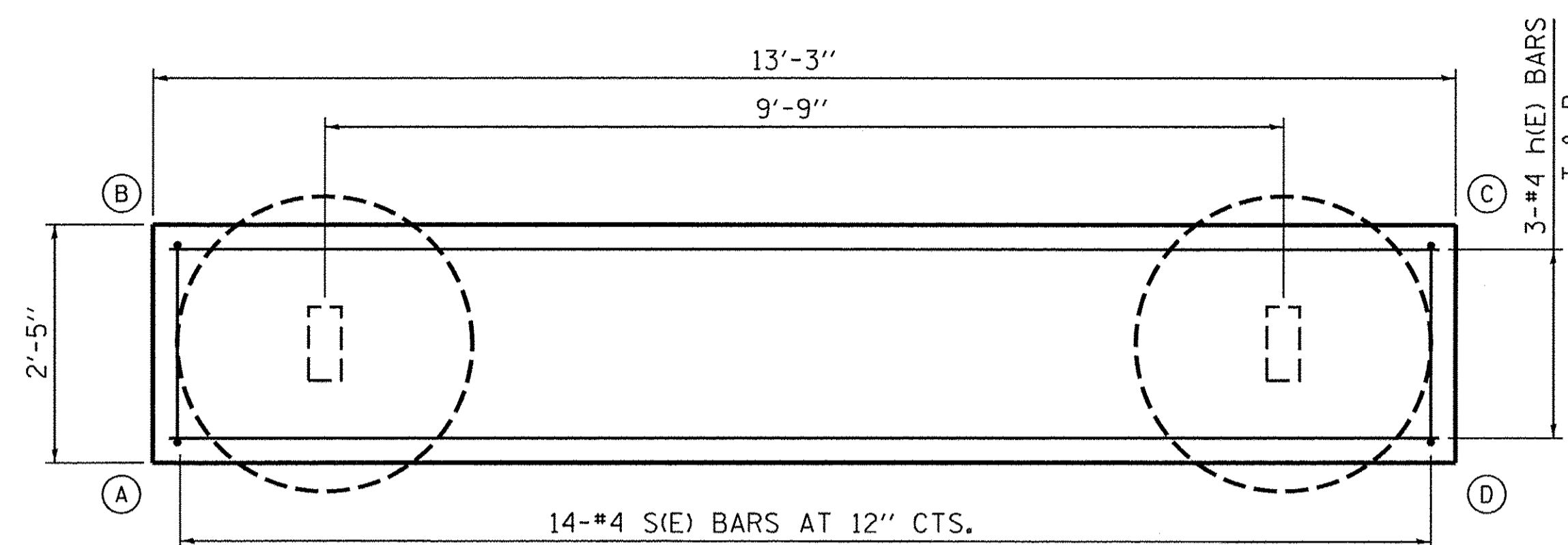
f'c = 3,500 PSI
fy = 60,000 PSI (REINFORCEMENT)
fy = 46,000 PSI (ASTM A500 GRADE B)

BILL OF MATERIAL
(FOR INFORMATION ONLY)

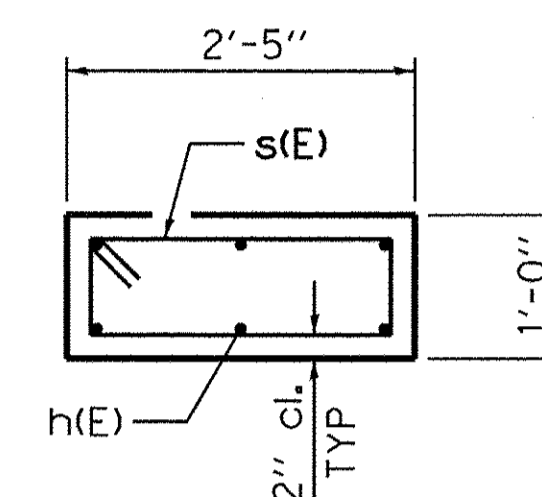
BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	6	#4	12'-11"	—
s(E)	14	#4	6'-3"	⊠
STRUCTURE EXCAVATION		CU. YD.	3.0	
CONCRETE STRUCTURES		CU. YD.	3.4	
Reinforcement Bars, Epoxy Coated		POUND	110	
HSS 8x4x5/16		EACH	2	
SIGN POST				

FOUNDATION LAYOUT TABLE

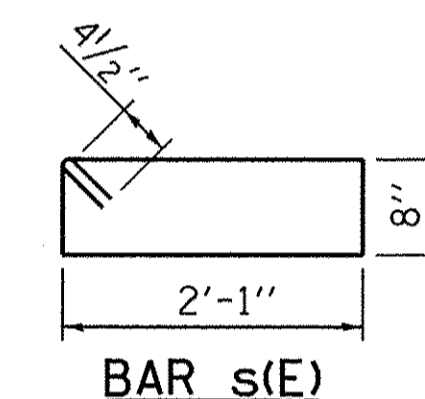
POINT	NORTHING	EASTING	ELEVATION	STATION	OFFSET
A	1862330.40	955001.82	697.42	13+65.4	58.1' LT
B	1862332.29	955003.32	697.42	13+67.9	58.7' LT
C	1862324.09	955013.72	697.42	13+71.0	45.7' LT
D	1862322.19	955012.22	697.42	13+68.5	45.2' LT



PLAN



SECTION A-A



BAR s(E)

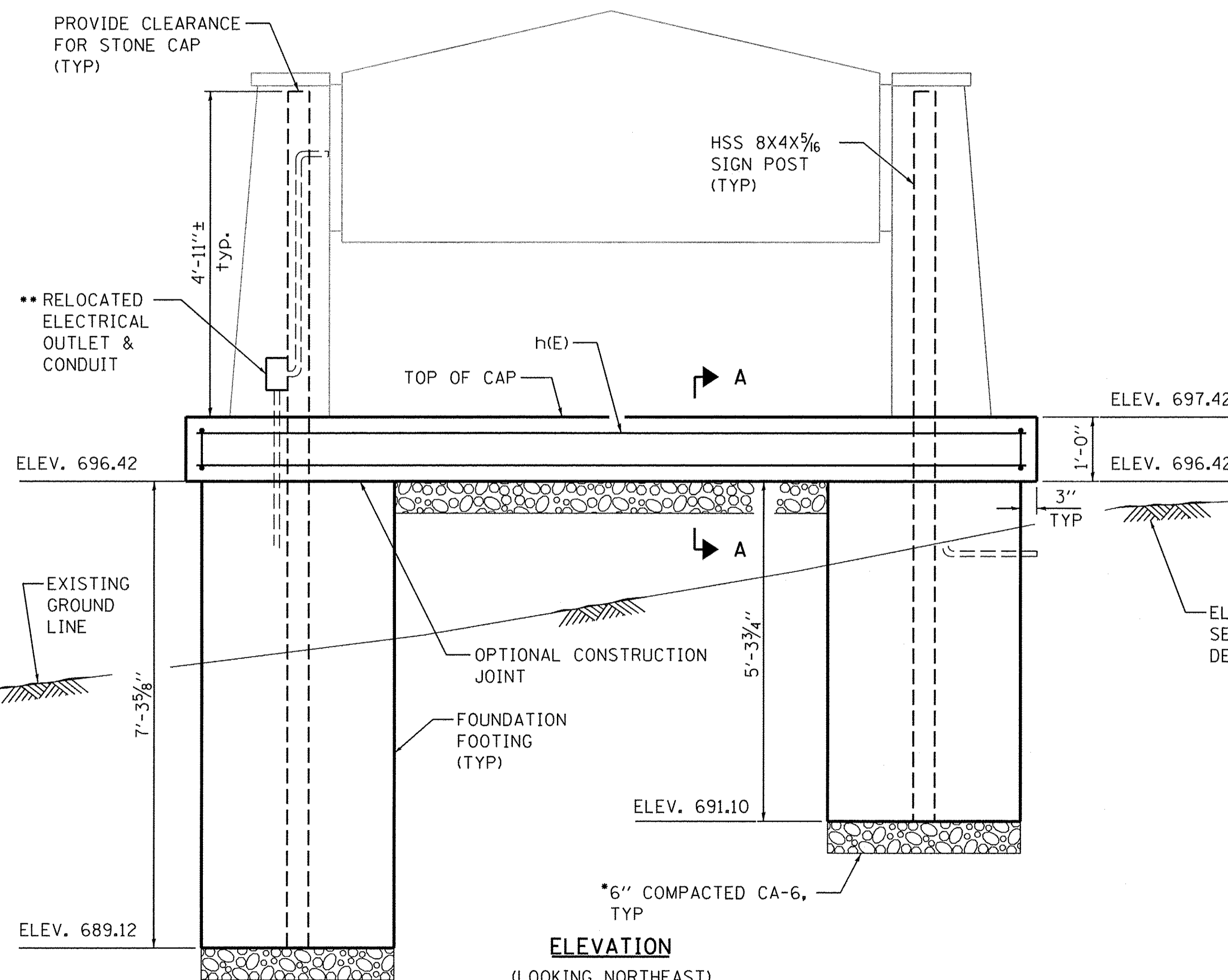
GENERAL NOTES

BASIS OF PAYMENT:
STRUCTURE EXCAVATION, CONCRETE STRUCTURES, REINFORCEMENT BARS, EPOXY COATED, AND HSS 8X4X5/16 SIGN POST SHALL NOT BE PAID FOR SEPARATELY BUT INCLUDED IN THE PAY ITEM FOR "ENTRY SIGNAGE."

ELECTRICAL OUTLET AND CONDUIT TO BE COORDINATED PRIOR TO POURING FOUNDATION PAD AND FOOTING.

PLAN DIMENSIONS AND DETAILS RELATIVE TO PROPOSED PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY PROPOSED DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

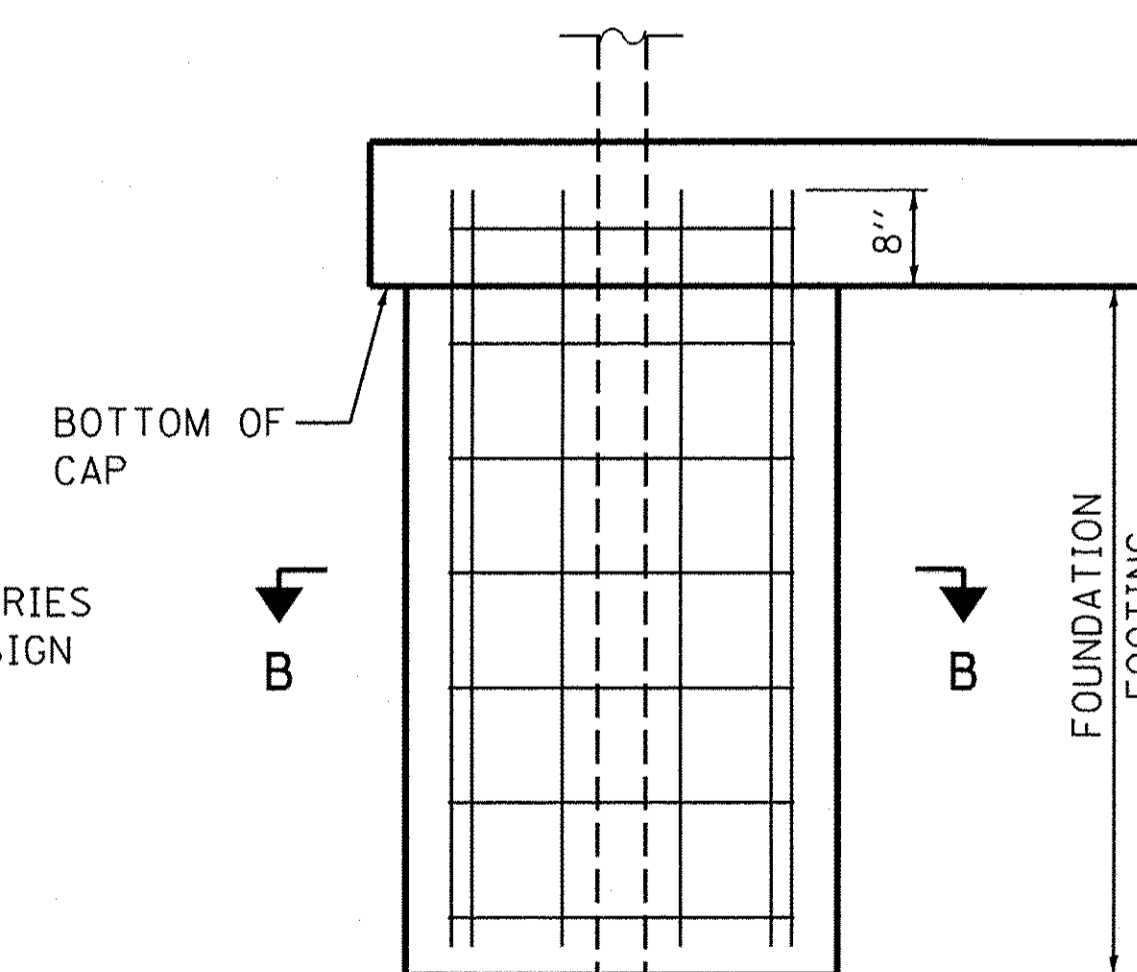


ELEVATION

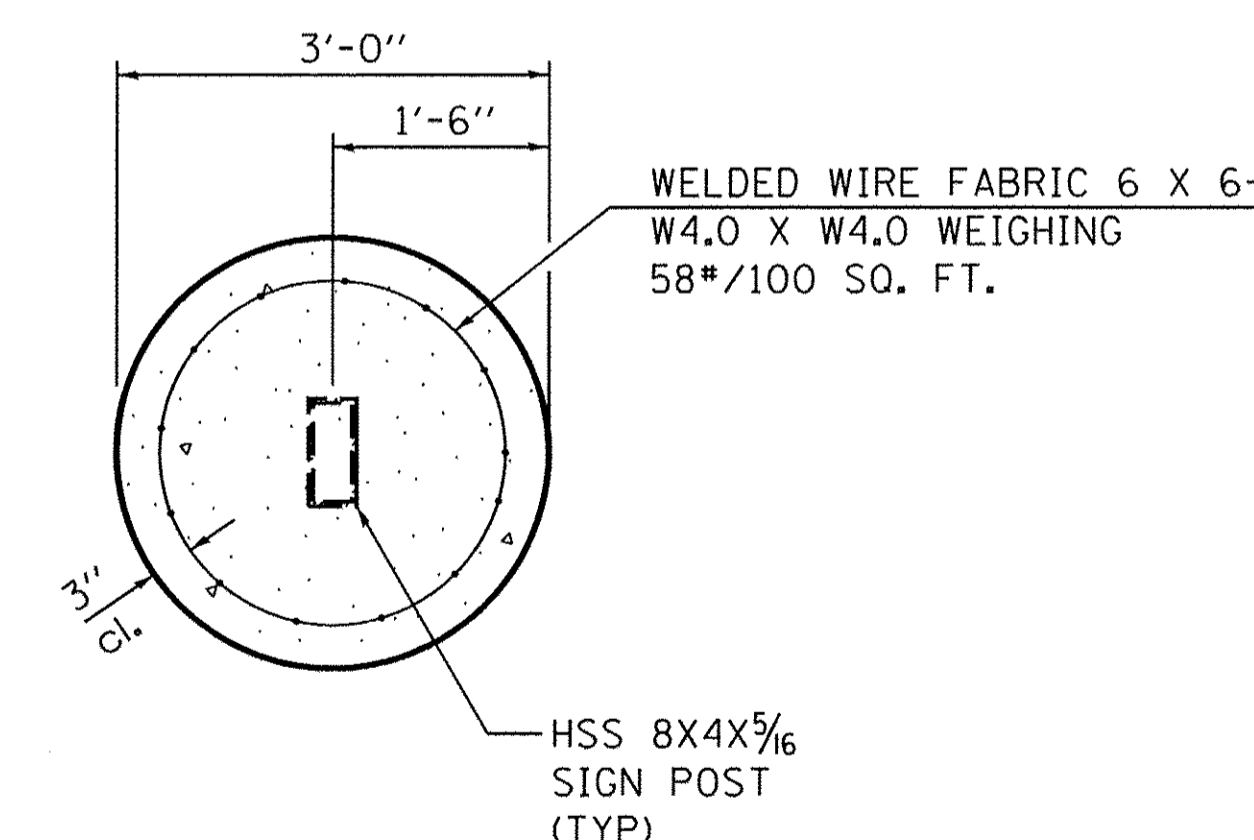
(LOOKING NORTHEAST)

* NOT ITEMIZED SEPARATELY BUT INCLUDED IN THE PAY ITEM FOR "ENTRY SIGNAGE."

** LOCATION TO BE DETERMINED IN THE FIELD



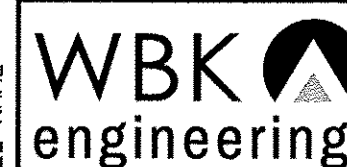
ELEVATION



SECTION B-B

FOUNDATION FOOTING DETAIL

FILE NAME = W:\Projects\2013\130222 81as PHIT\cead\Civil\Drawings\DT_02-CHURCHSIGN.dgn



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116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nparris	DESIGNED - JMM	REVISED -
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PLOT DATE = 10/24/2016	CHECKED - SBP	REVISED -
	DATE - 8/8/16	REVISED -

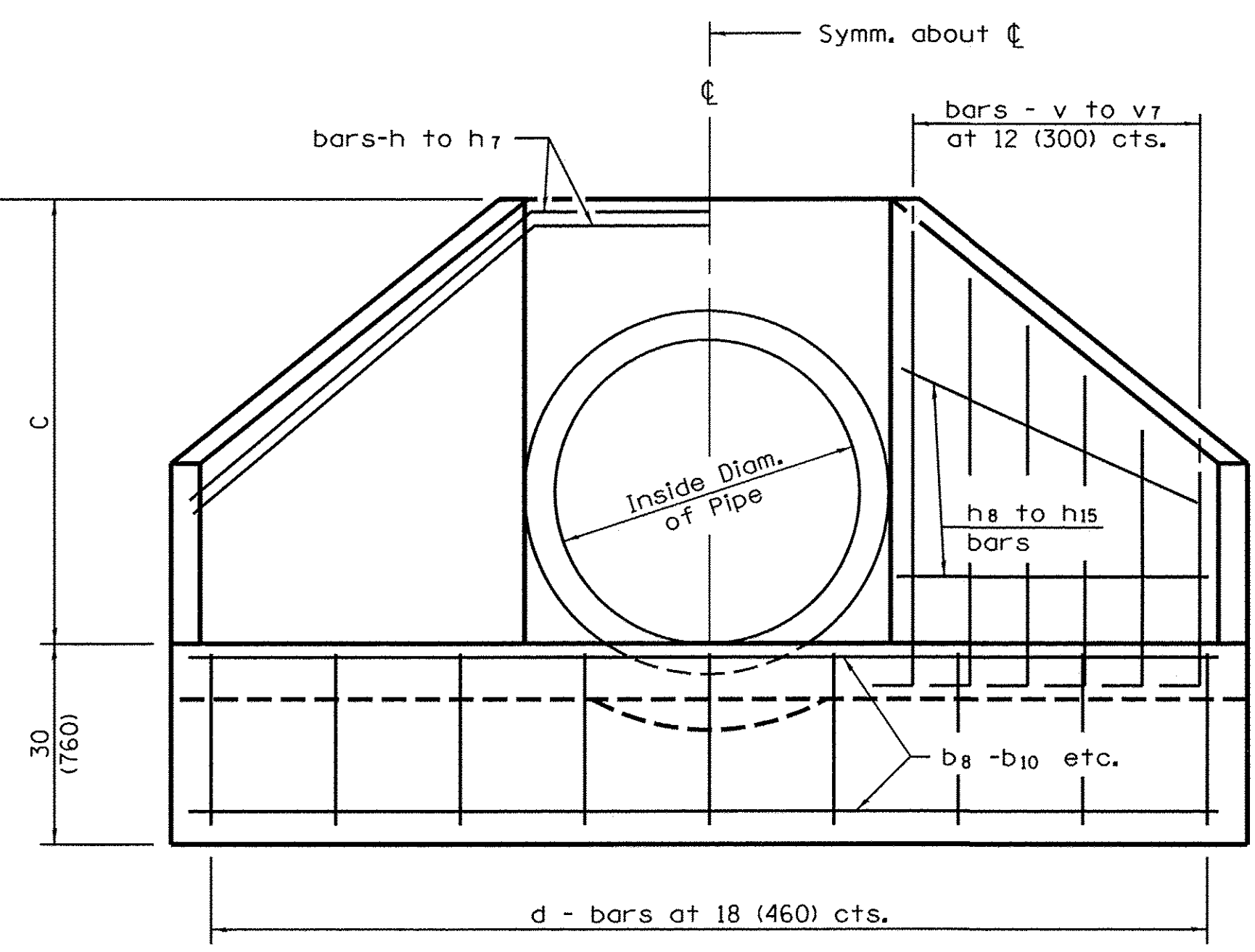
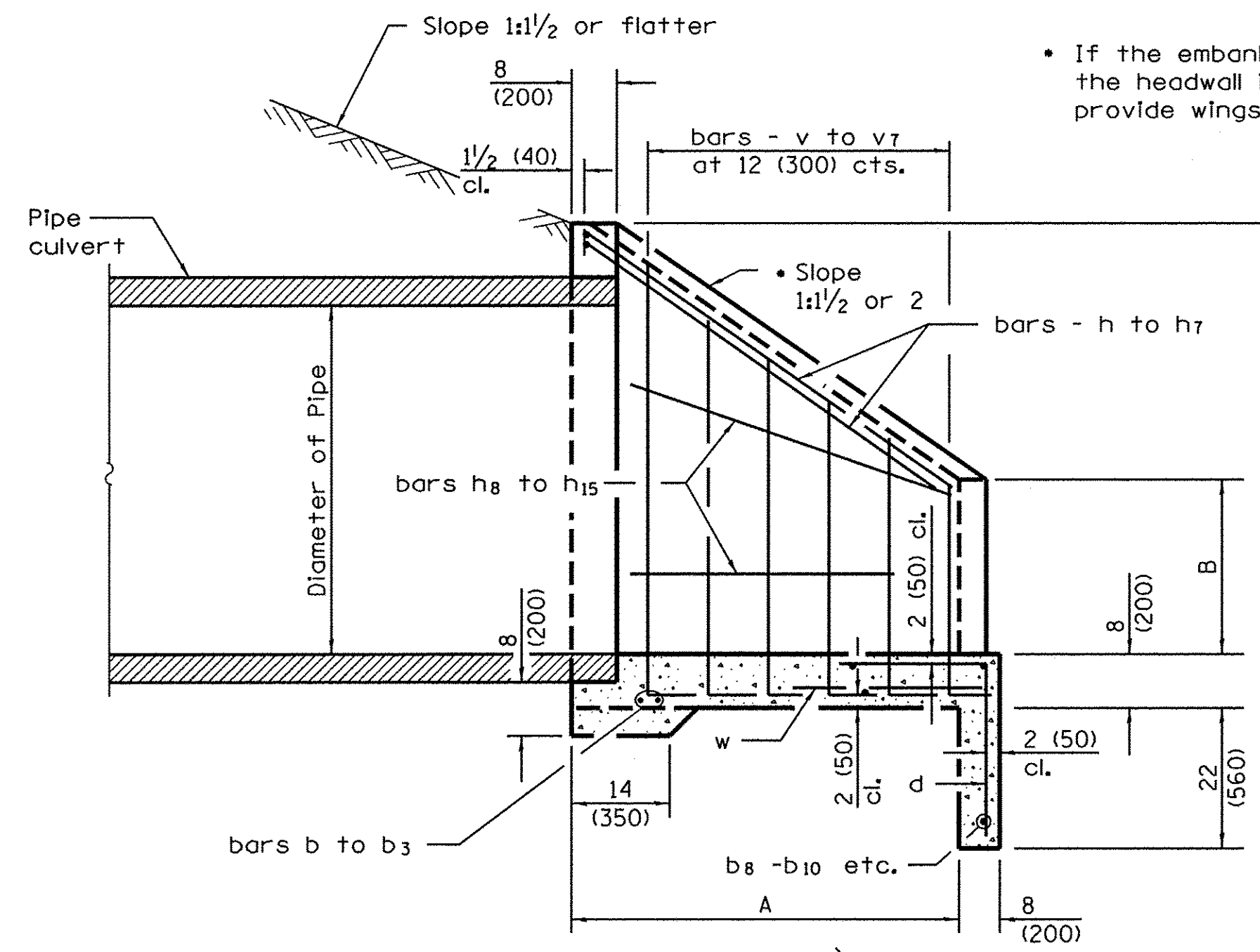
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CHURCH SIGN FOUNDATION
LAYOUT & DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	121
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

42 (1050) Pipe			
D42-1/2 (D1.05-1/2)		D42-2 (D1.05-2)	
Bars	No.	Bars	No.
d	8	d	9
b	2	b	2
b ₅	1	b ₄	1
b ₈	2	b ₈	1
		b ₁₁	2
h	2	h ₁	2
h ₈	4	h ₉	4
v ₃	2	v ₃	2
v ₄	2	v ₄	2
v ₅	2	v ₅	4
v ₆	2	v ₆	2
v ₇	2	v ₇	2
w	2	w	2

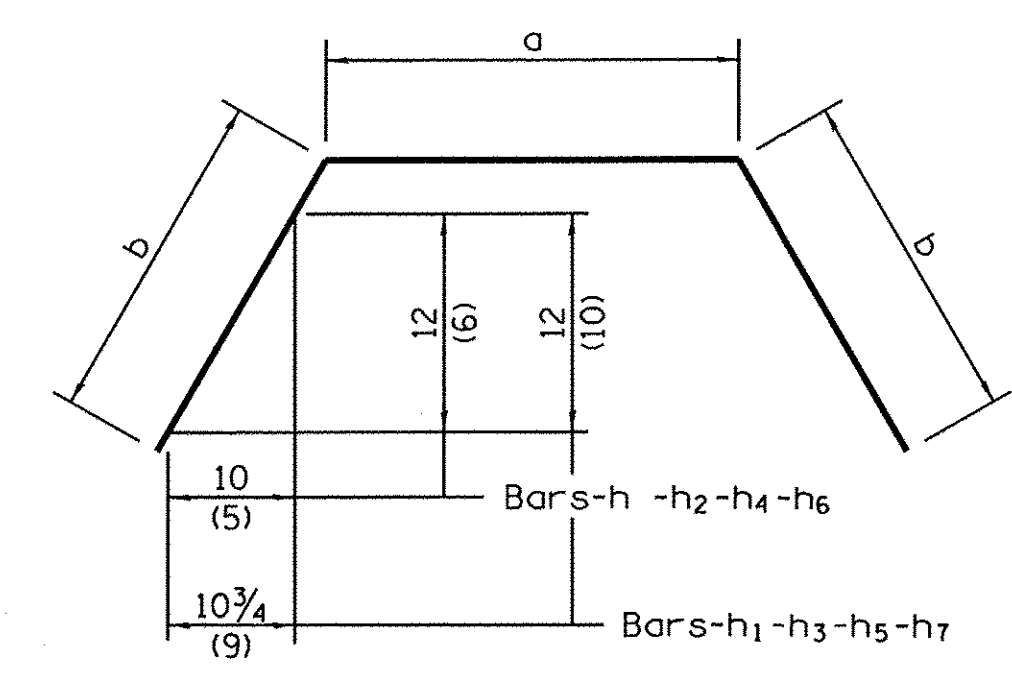
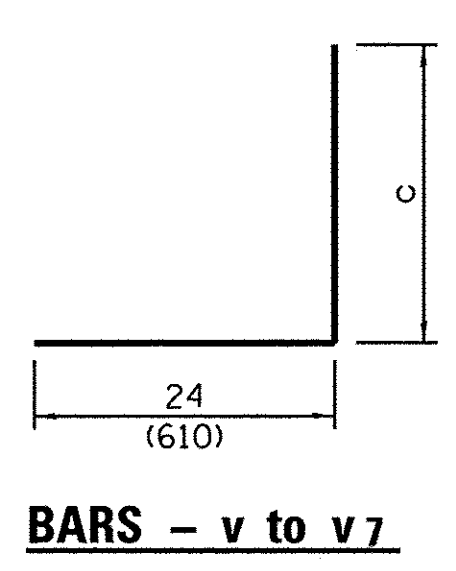
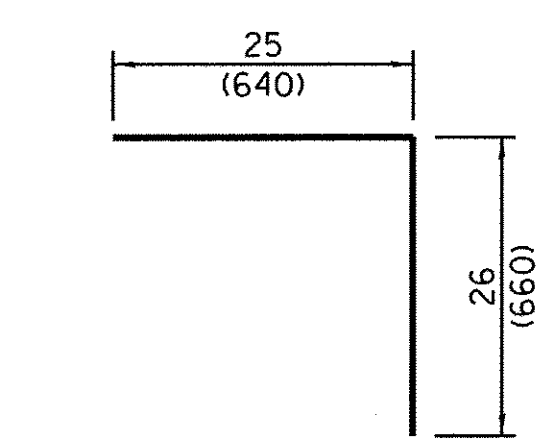
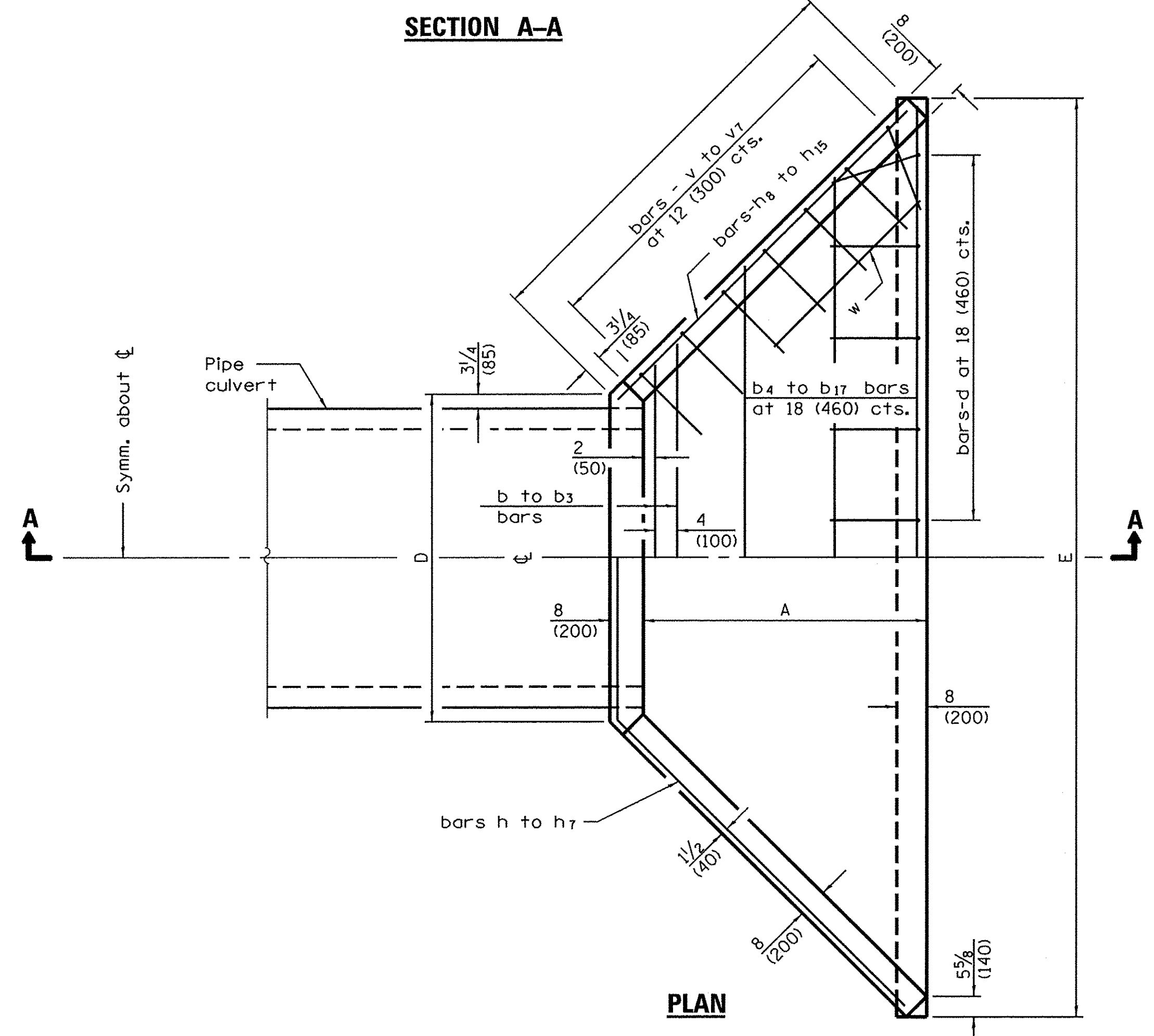


DIMENSIONS OF STRAIGHT BARS

Bar	Size	Length	Bar	Size	Length
b	No. 5 (No. 16)	6'-3" (1.9 m)	b ₁₃	No. 4 (No. 13)	15'-0" (4.75 m)
b ₁	No. 5 (No. 16)	6'-9" (2.06 m)	b ₁₄	No. 4 (No. 13)	15'-6" (4.72 m)
b ₂	No. 5 (No. 16)	7'-3" (2.21 m)	b ₁₅	No. 4 (No. 13)	16'-6" (5.03 m)
b ₃	No. 5 (No. 16)	8'-0" (2.44 m)	b ₁₆	No. 4 (No. 13)	17'-0" (5.18 m)
b ₄	No. 4 (No. 13)	8'-3" (2.51 m)	b ₁₇	No. 4 (No. 13)	19'-0" (5.79 m)
b ₅	No. 4 (No. 13)	9'-0" (2.74 m)	h ₈	No. 4 (No. 13)	4'-9" (1.45 m)
b ₆	No. 4 (No. 13)	10'-0" (3.05 m)	h ₉	No. 4 (No. 13)	6'-3" (1.9 m)
b ₇	No. 4 (No. 13)	10'-6" (3.2 m)	h ₁₀	No. 4 (No. 13)	5'-3" (1.6 m)
b ₈	No. 4 (No. 13)	11'-3" (3.43 m)	h ₁₁	No. 4 (No. 13)	7'-3" (2.2 m)
b ₉	No. 4 (No. 13)	12'-0" (3.66 m)	h ₁₂	No. 4 (No. 13)	6'-0" (1.83 m)
b ₁₀	No. 4 (No. 13)	13'-0" (3.96 m)	h ₁₃	No. 4 (No. 13)	8'-0" (2.44 m)
b ₁₁	No. 4 (No. 13)	13'-6" (4.11 m)	h ₁₄	No. 4 (No. 13)	6'-6" (1.98 m)
b ₁₂	No. 4 (No. 13)	14'-3" (4.34 m)	h ₁₅	No. 4 (No. 13)	8'-9" (2.67 m)
w	No. 4 (No. 13)	4'-0" (1.22 m)			

DIMENSIONS AND QUANTITIES

Design No.	Nominal Inside Dia. of Pipe	Slope of Wing Walls	Dimensions						Concrete 2 End Secs. cu. yds. (m ³)	Reinf. Bars 2 End Secs. lbs. (kg)
			A	B	C	D	E	F		
D42-1/2 (D1.05-1/2)	42 (1050)	1:1/2	3'-4" (1.01 m)	26 (660)	4'-4 1/2" (1.33 m)	4'-10" (1.48 m)	11'-10 1/2" (3.63 m)	5'-0" (1.52 m)	4.8 (3.7)	330 (150)
D42-2 (D1.05-2)	42 (1050)	1:2	4'-5" (1.35 m)	26 (660)	1.33 m (1.33 m)	4'-10" (1.48 m)	14'-0 1/2" (4.29 m)	6'-6 1/4" (1.99 m)	6.2 (4.7)	400 (180)



DIMENSIONS OF BENT BARS

No. 5 (No. 16) - bars v to v7			No. 5 (No. 16) - bars h to h7			
BARS	c	TOTAL LENGTH	BARS	a	b	TOTAL LENGTH
v	6'-0" (1.83 m)	8'-0" (2.44 m)	h	4'-8" (1.42 m)	5'-2" (1.57 m)	15'-0" (4.56 m)
v ₁	5'-6" (1.68 m)	7'-6" (2.29 m)	h ₁	4'-8" (1.42 m)	6'-8" (2.03 m)	18'-0" (5.48 m)
v ₂	5'-0" (1.52 m)	7'-0" (2.13 m)	h ₂	5'-3" (1.6 m)	5'-10 1/2" (1.79 m)	17'-0" (5.18 m)
v ₃	4'-6" (1.37 m)	6'-6" (1.98 m)	h ₃	5'-3" (1.6 m)	7'-6" (2.29 m)	20'-3" (6.18 m)
v ₄	4'-0" (1.22 m)	6'-0" (1.83 m)	h ₄	5'-10" (1.78 m)	6'-7" (2.01 m)	19'-0" (5.78 m)
v ₅	3'-6" (1.07 m)	5'-6" (1.68 m)	h ₅	5'-10" (1.78 m)	8'-4" (2.54 m)	22'-6" (6.86 m)
v ₆	36 (920)	5'-0" (1.53 m)	h ₆	6'-5" (1.96 m)	7'-2" (2.18 m)	20'-9" (6.32 m)
v ₇	24 (610)	4'-6" (1.22 m)	h ₇	6'-5" (1.96 m)	9'-3 1/2" (2.83 m)	25'-0" (7.59 m)

WBK engineering
WBK ENGINEERING, LLC
 116 WEST MAIN STREET, SUITE 201
 ST. CHARLES, ILLINOIS 60174
 (630) 443-7755

USER NAME = nporris	DESIGNED -	REVISED -
PLOT SCALE = 1:1	DRAWN -	REVISED -
PLOT DATE = 10/24/2016	CHECKED -	REVISED -
	DATE = 8/8/16	REVISED -

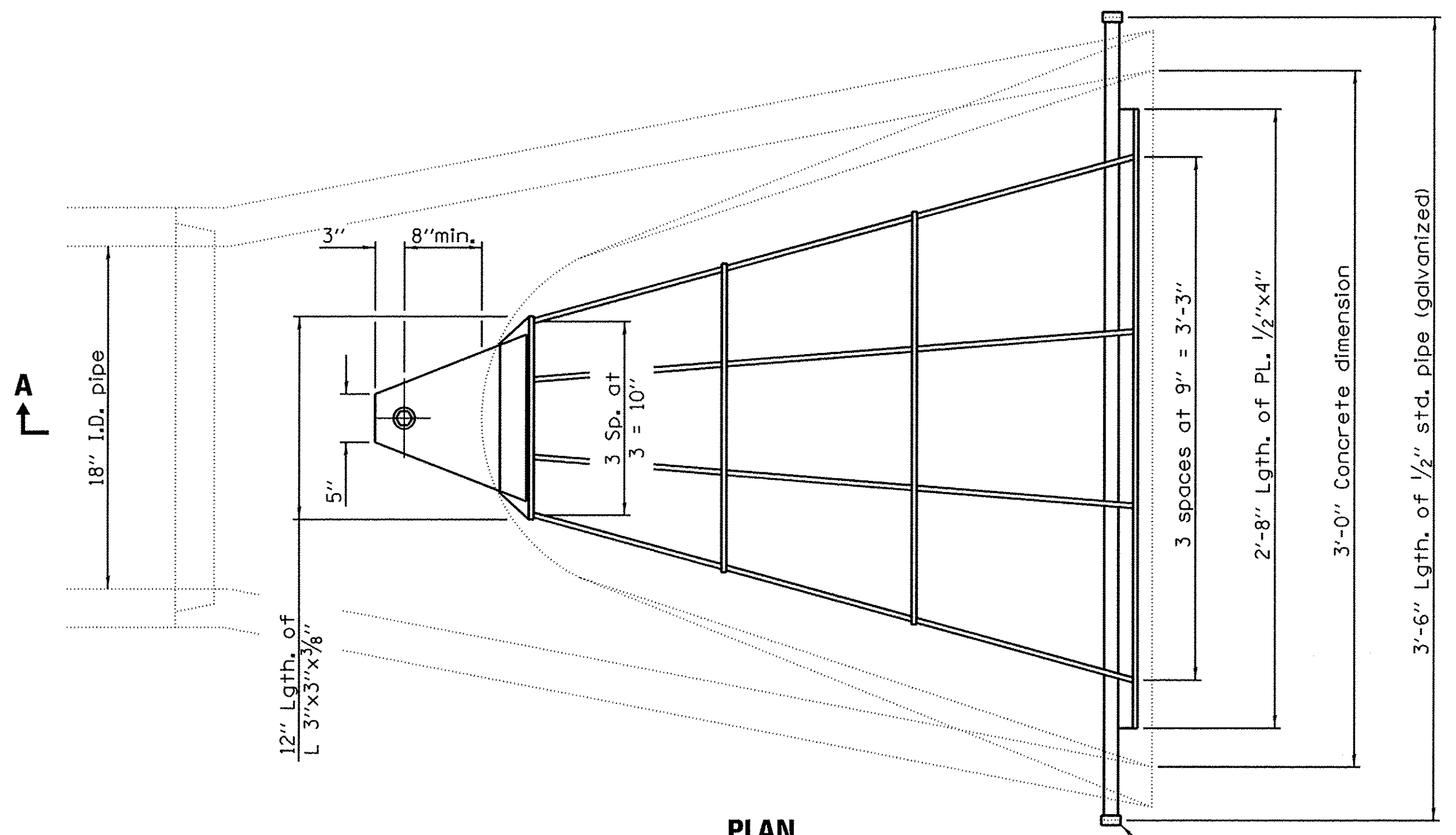
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HEADWALL DETAIL

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

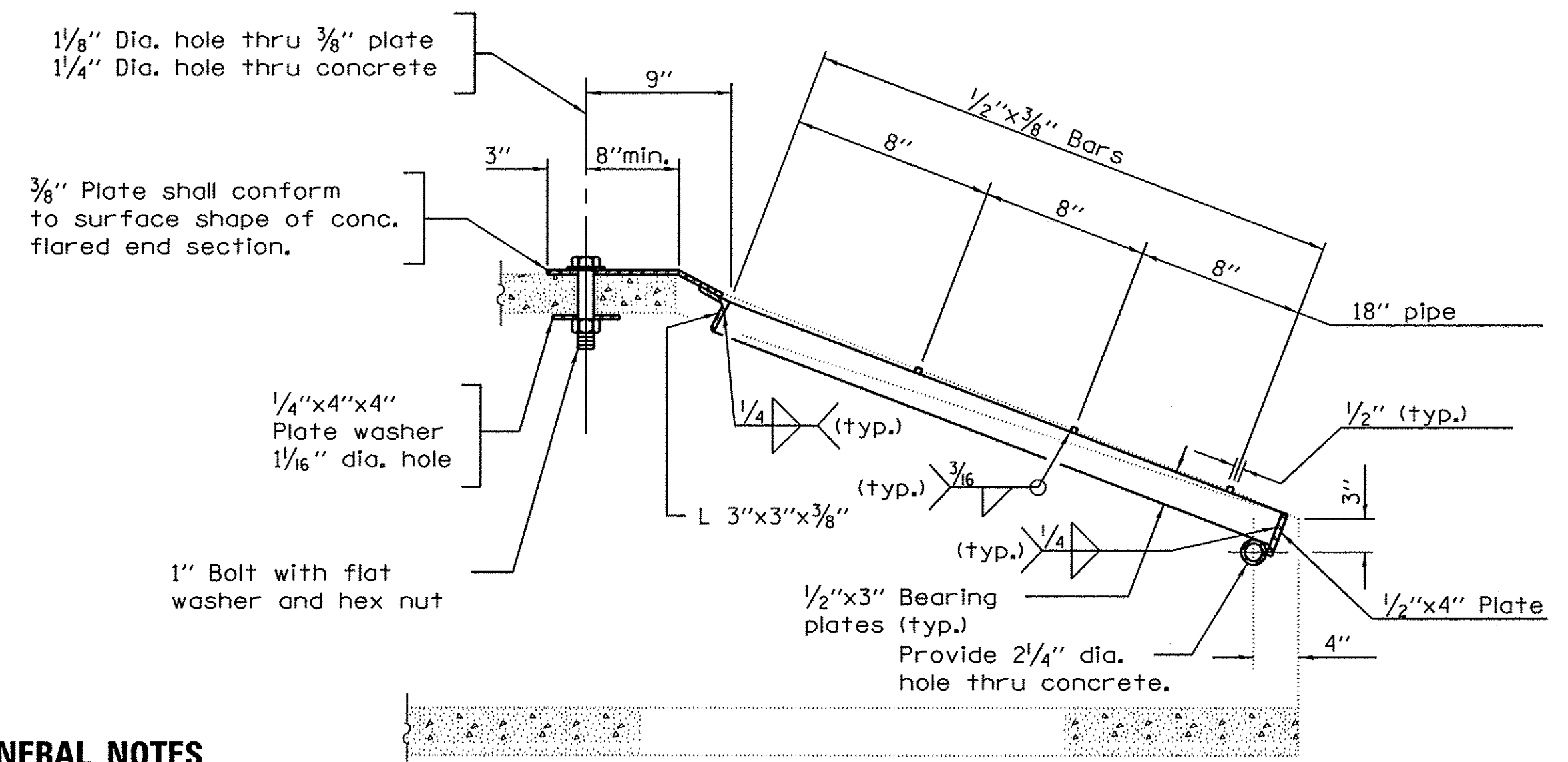
F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 122
CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				

FILE NAME = W:\Projects\2013\102282 Bilas Ph\Drawings\Civil\Drawings\DT_03-HEADWALL.dgn



PLAN
Quantity of steel = 100 lbs.

Galvanized 1/2" std. pipe cap (typ.)



SECTION A-A

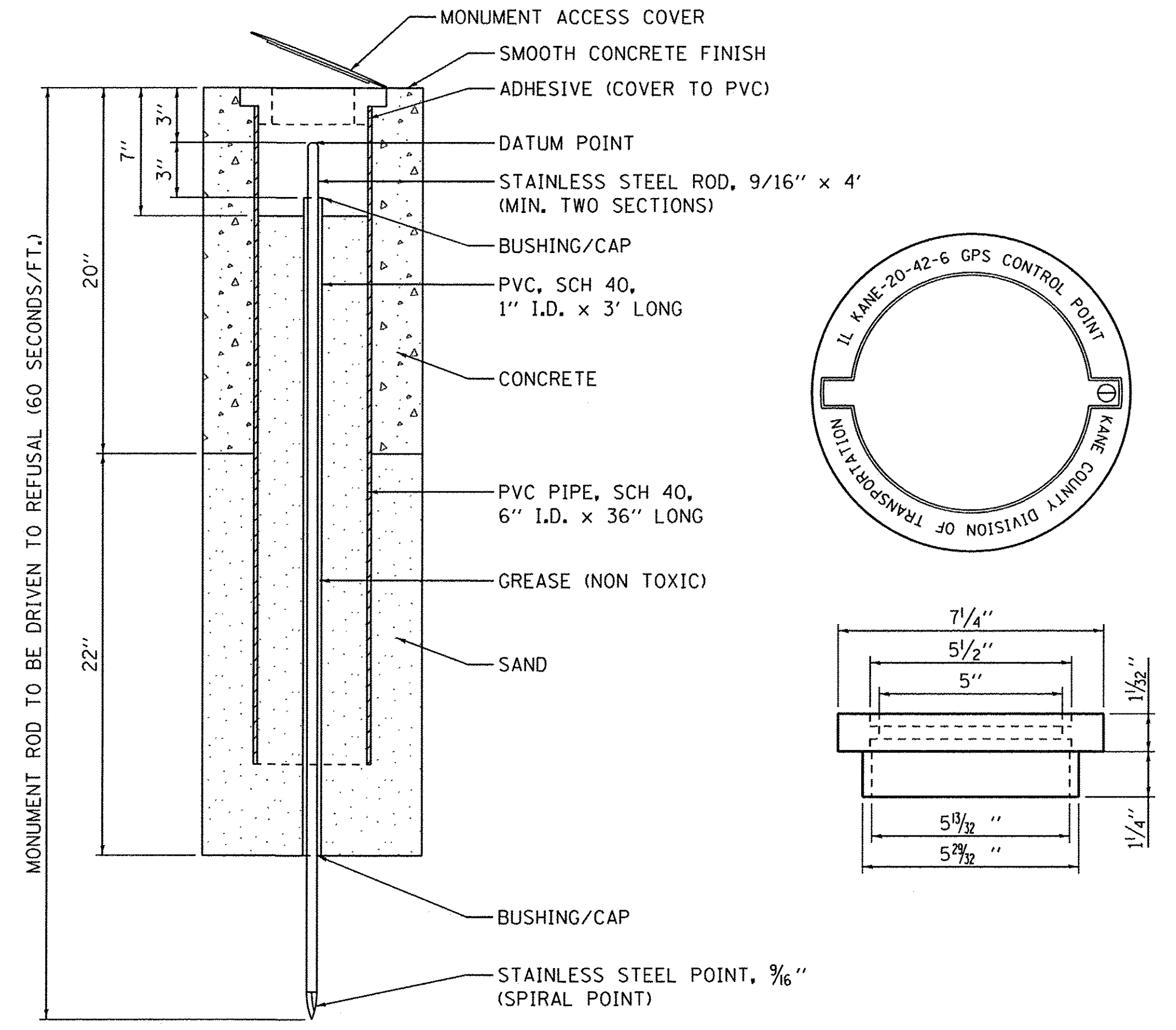
**GRATING FOR 18"
PRECAST REINFORCED
CONCRETE FLARED END SECTION**

GENERAL NOTES

Grating details shown are intended for use with particular sizes of precast reinforced concrete flared end sections as shown on standards 542301.

Approximate quantity of steel shown includes total quantity of grating, bolts, nuts, washers and steel pipe.

Holes in the precast concrete flared end sections shall be cored to the diameters noted. If cone-out on the other end of the hole occurs, the hole shall be filled with grout to correct the diameter of the hole.



PERMANENT SURVEY MONUMENT DETAIL

FILE NAME = \\P:\projects\2013\100282 Biles PHU\roads\Civil\Drawings\Shk\DT_04_FES.dgn

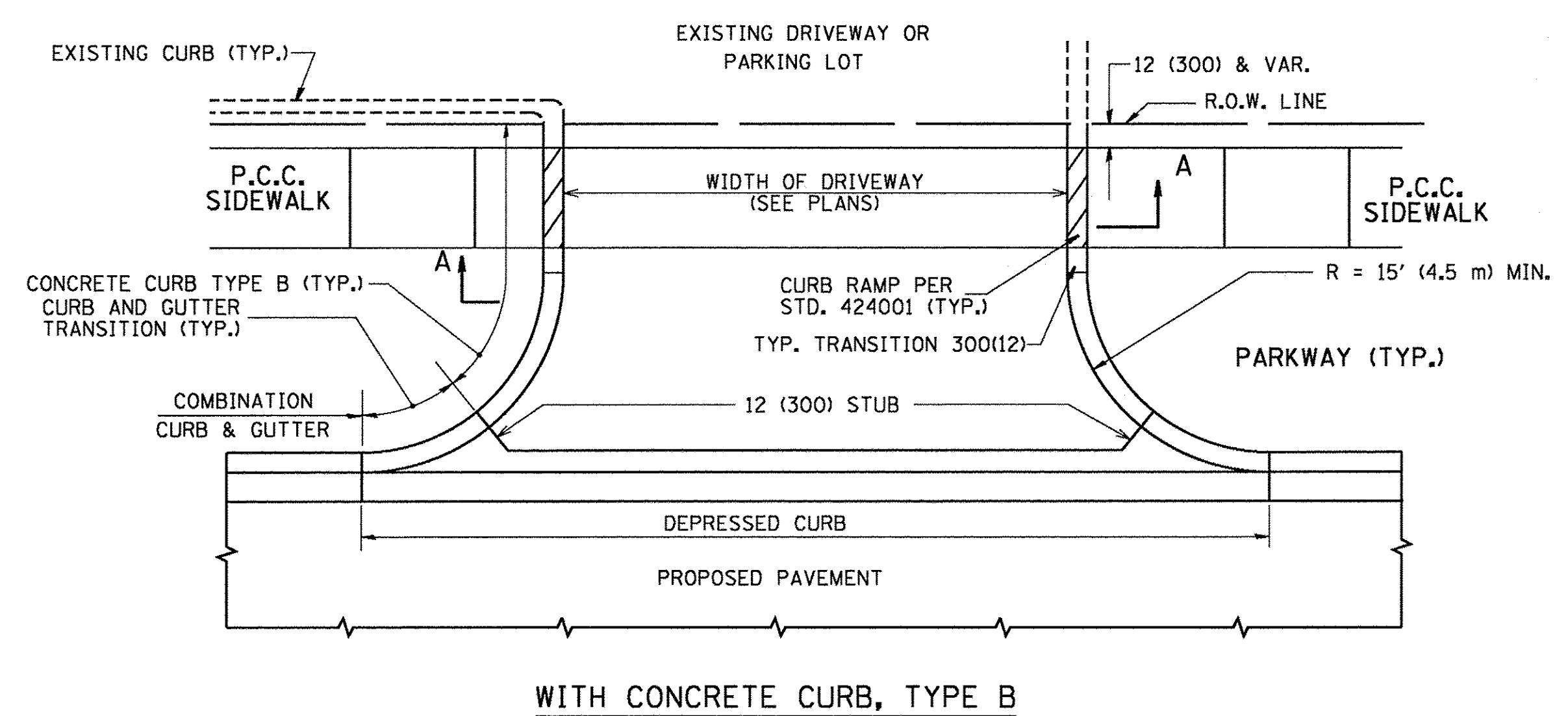
WBK engineering
WBK ENGINEERING, LLC
116 WEST MAIN STREET, SUITE 201
ST. CHARLES, ILLINOIS 60174
(630) 443-7755

USER NAME = nporris	DESIGNED -	REVISED -
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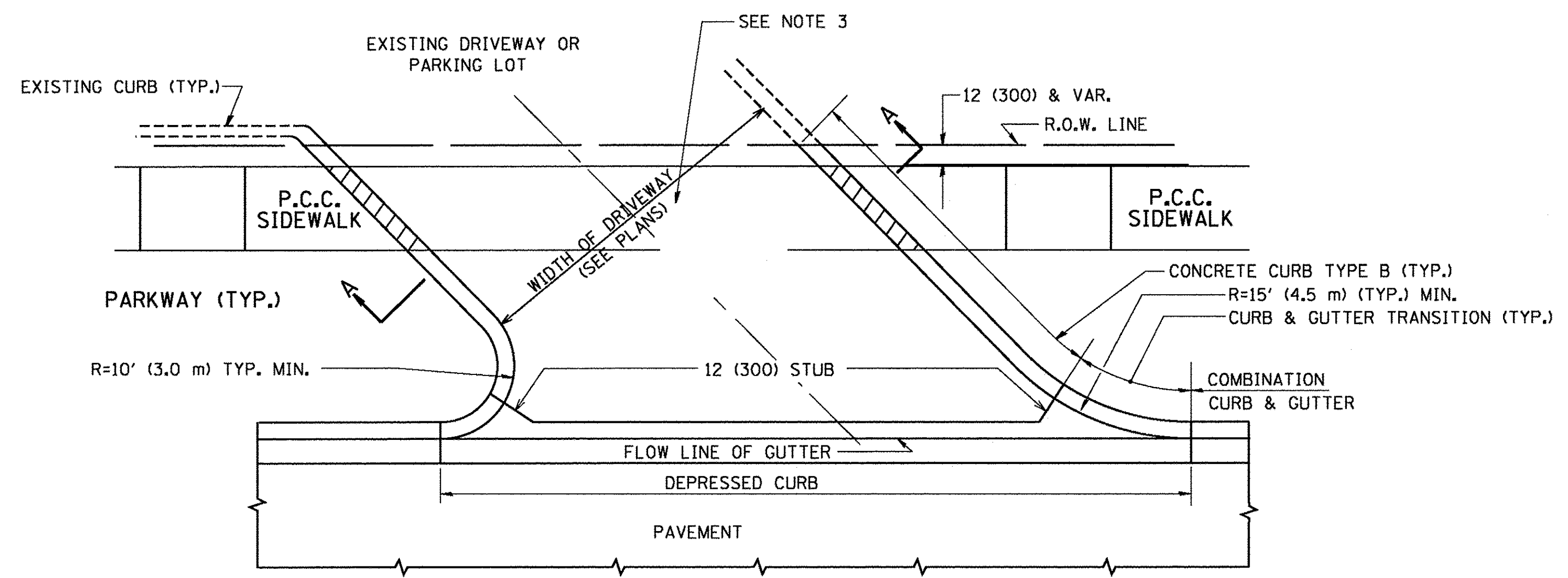
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GRATING DETAIL	
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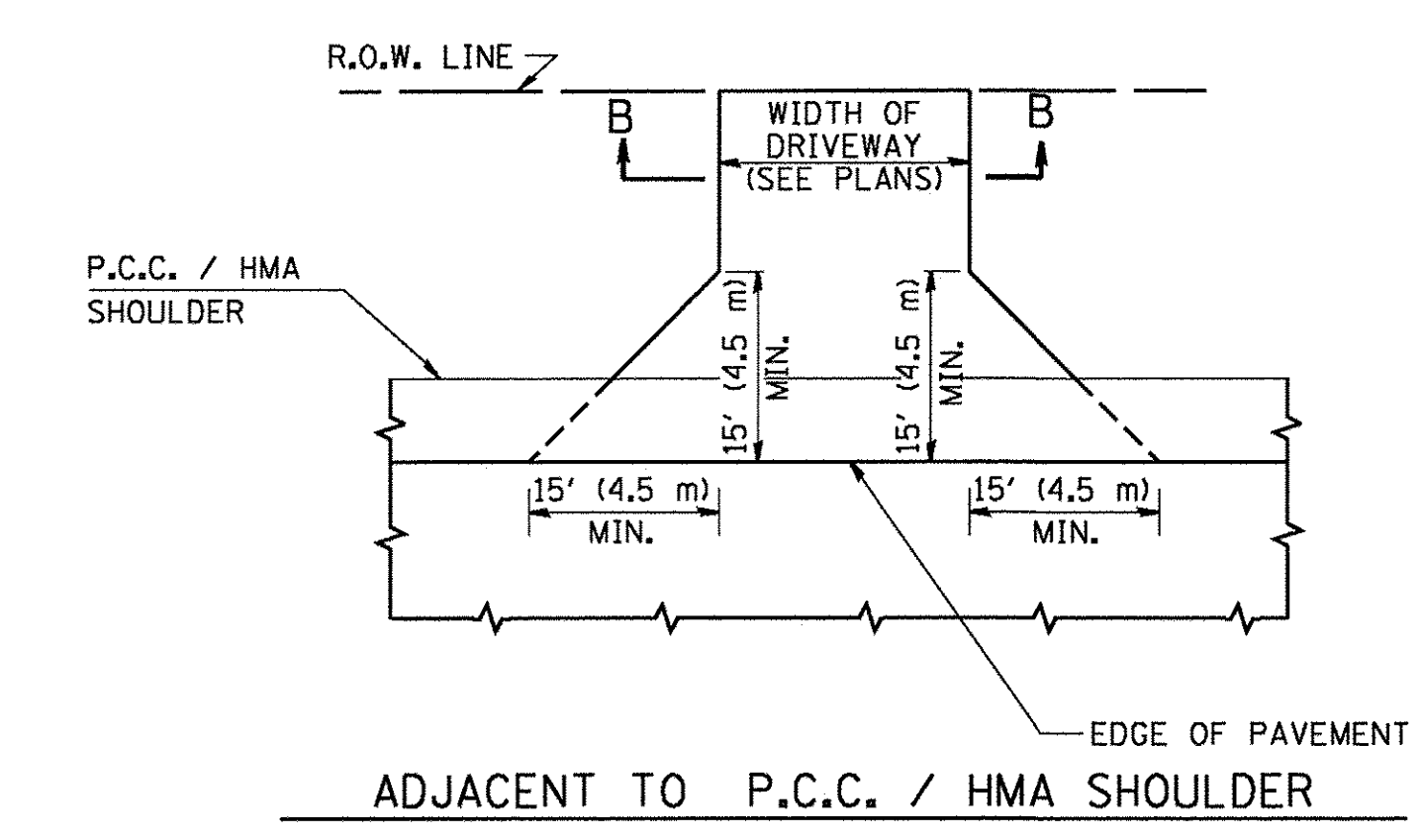
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CONTRACT NO. 61D20				
ILLINOIS FED. AID PROJECT				



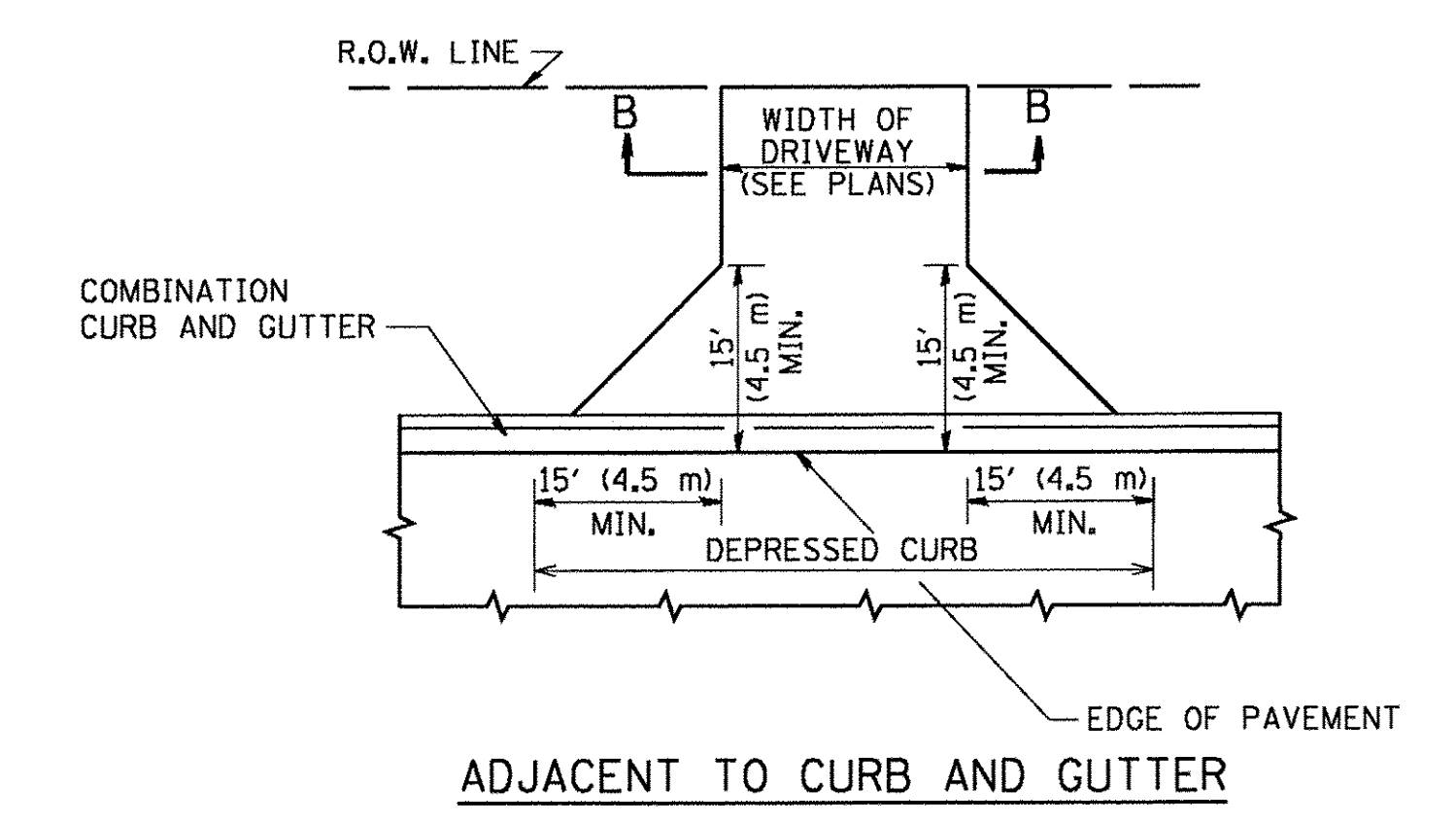
WITH CONCRETE CURB, TYPE B



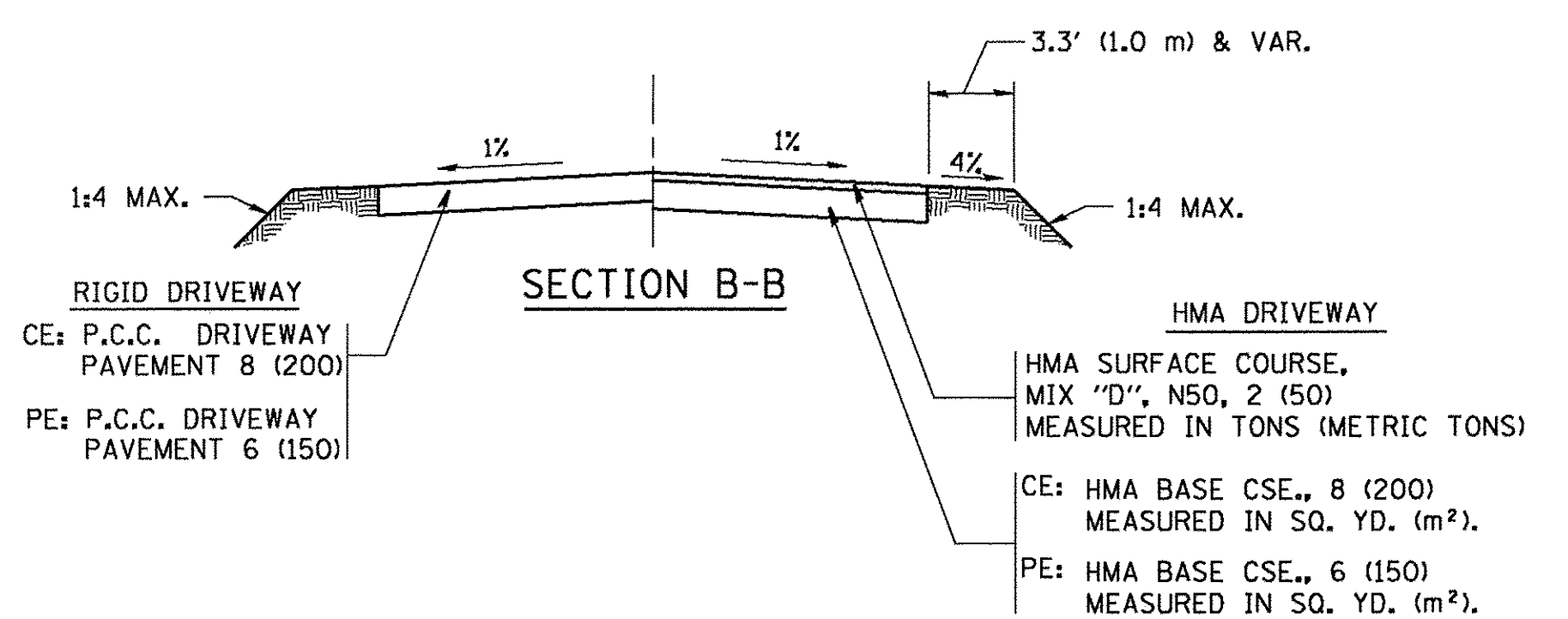
WITH CONCRETE CURB, TYPE B



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



RURAL FIELD ENTRANCE (FE)
HMA SURFACE COURSE,
MIX "D", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)
AGGREGATE BASE CSE., TYPE B, 8 (200)
MEASURED IN SQ. YD. (m²).

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.

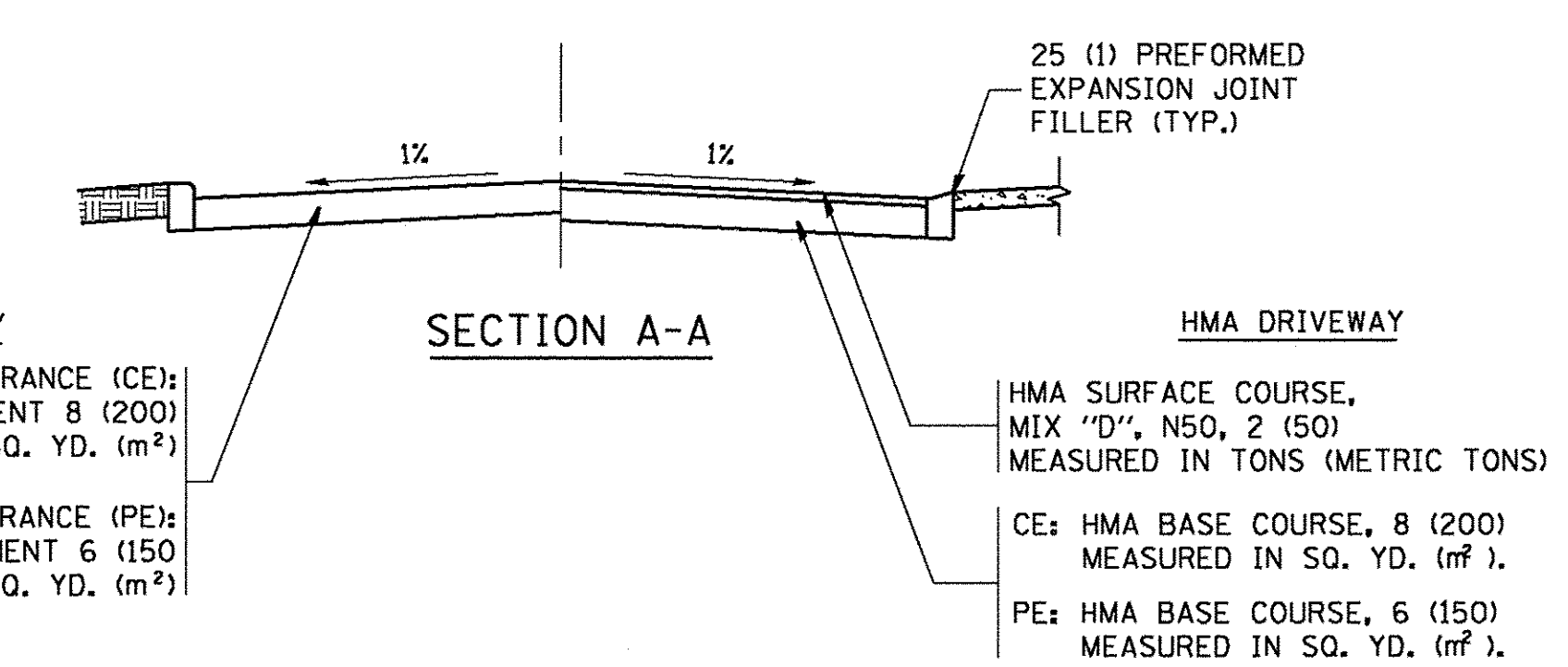
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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.



SECTION A-A

RIGID DRIVEWAY
COMMERCIAL ENTRANCE (CE):
P.C.C. DRIVEWAY PAVEMENT 8 (200)
MEASURED IN SQ. YD. (m²)
NON-COMMERCIAL ENTRANCE (PE):
P.C.C. DRIVEWAY PAVEMENT 6 (150)
MEASURED IN SQ. YD. (m²)

HMA DRIVEWAY
HMA SURFACE COURSE,
MIX "D", N50, 2 (50)
MEASURED IN TONS (METRIC TONS)
CE: HMA BASE COURSE, 8 (200)
MEASURED IN SQ. YD. (m²)
PE: HMA BASE COURSE, 6 (150)
MEASURED IN SQ. YD. (m²)

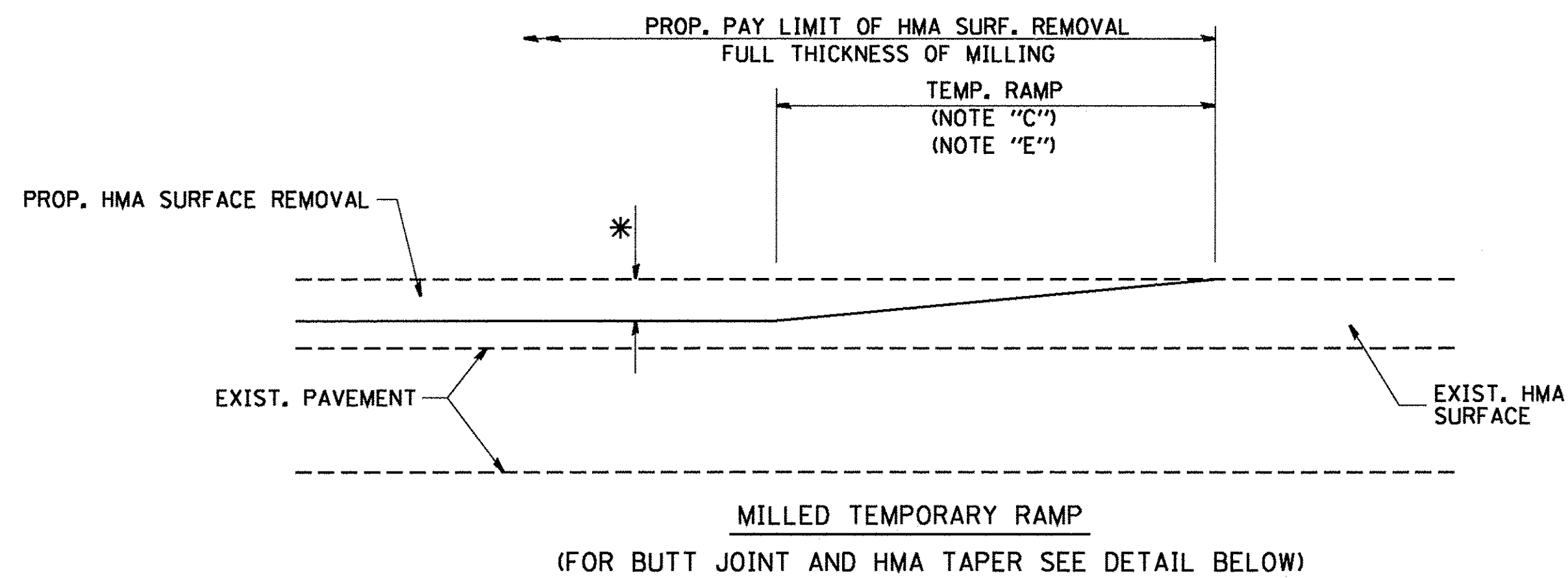
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c:\pw\work\pwwork\jaysos\0108315\bd01.dgn		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 50.0000' / 1"	CHECKED -	REVISED - R. BORO 06-11-08
	PLOT DATE = 9/6/2011	DATE - 11-04-95	REVISED - R. BORO 09-06-11

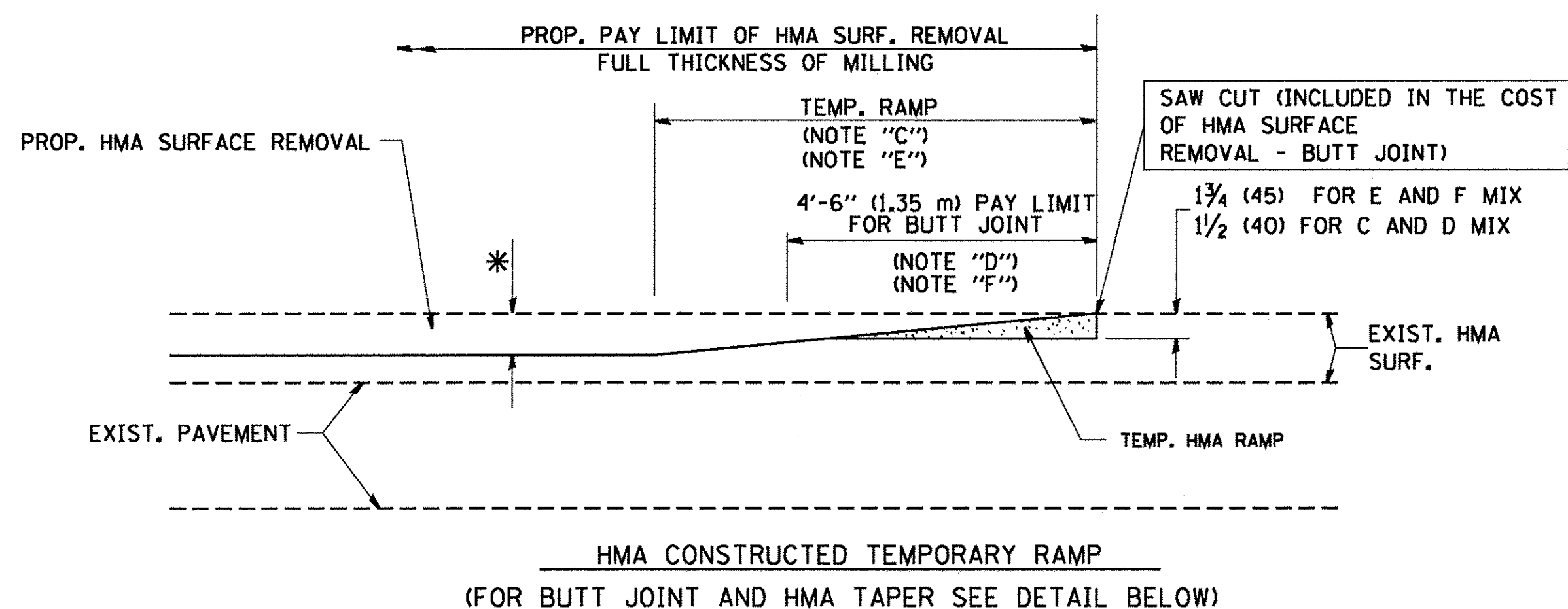
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE. 520	SECTION 08-00058-02-BR	COUNTY KANE	TOTAL SHEETS 218	SHEET NO. 124
BD0156-07 (BD-01)			CONTRACT NO. 61D20	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

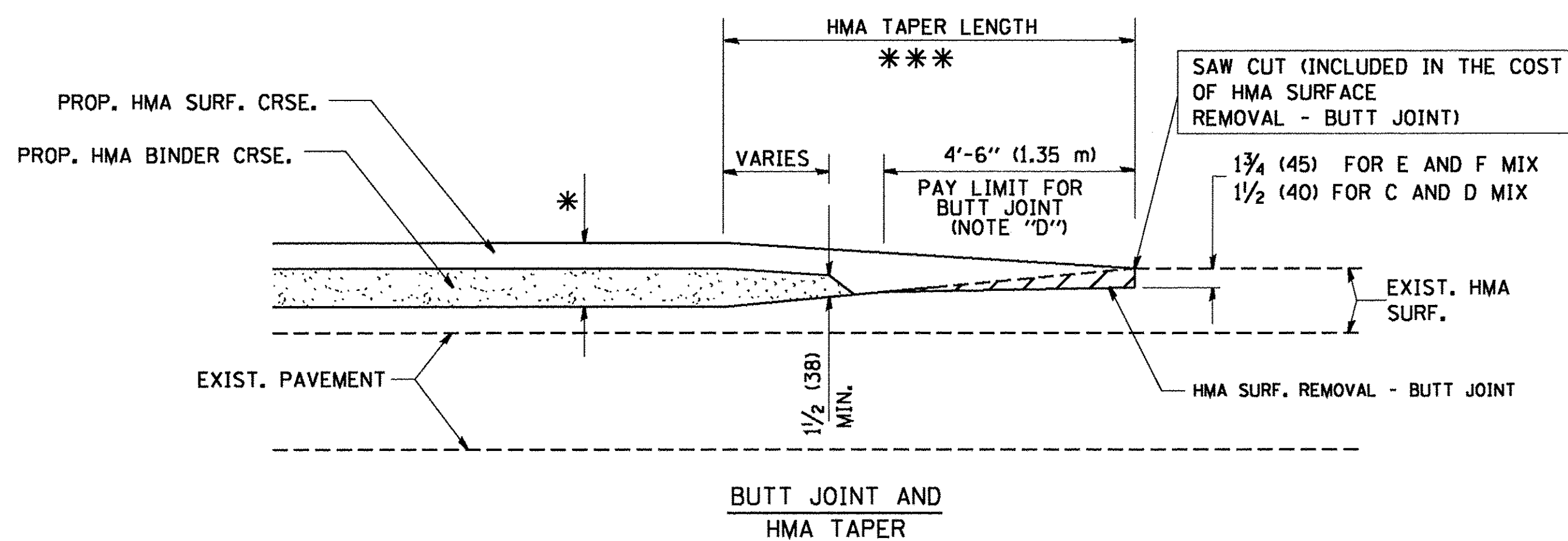


OPTION 1

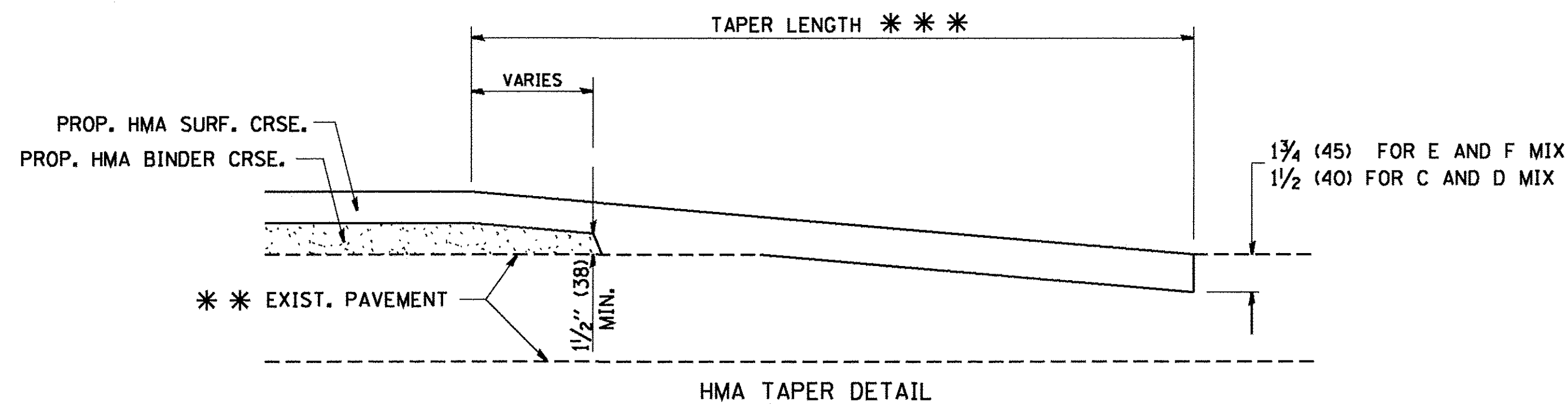
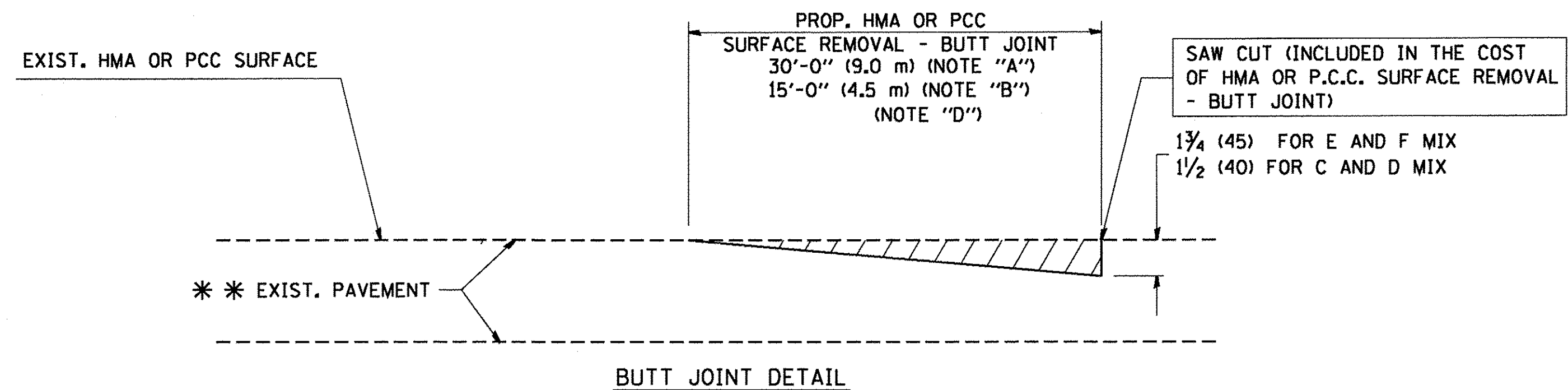


OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



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".

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

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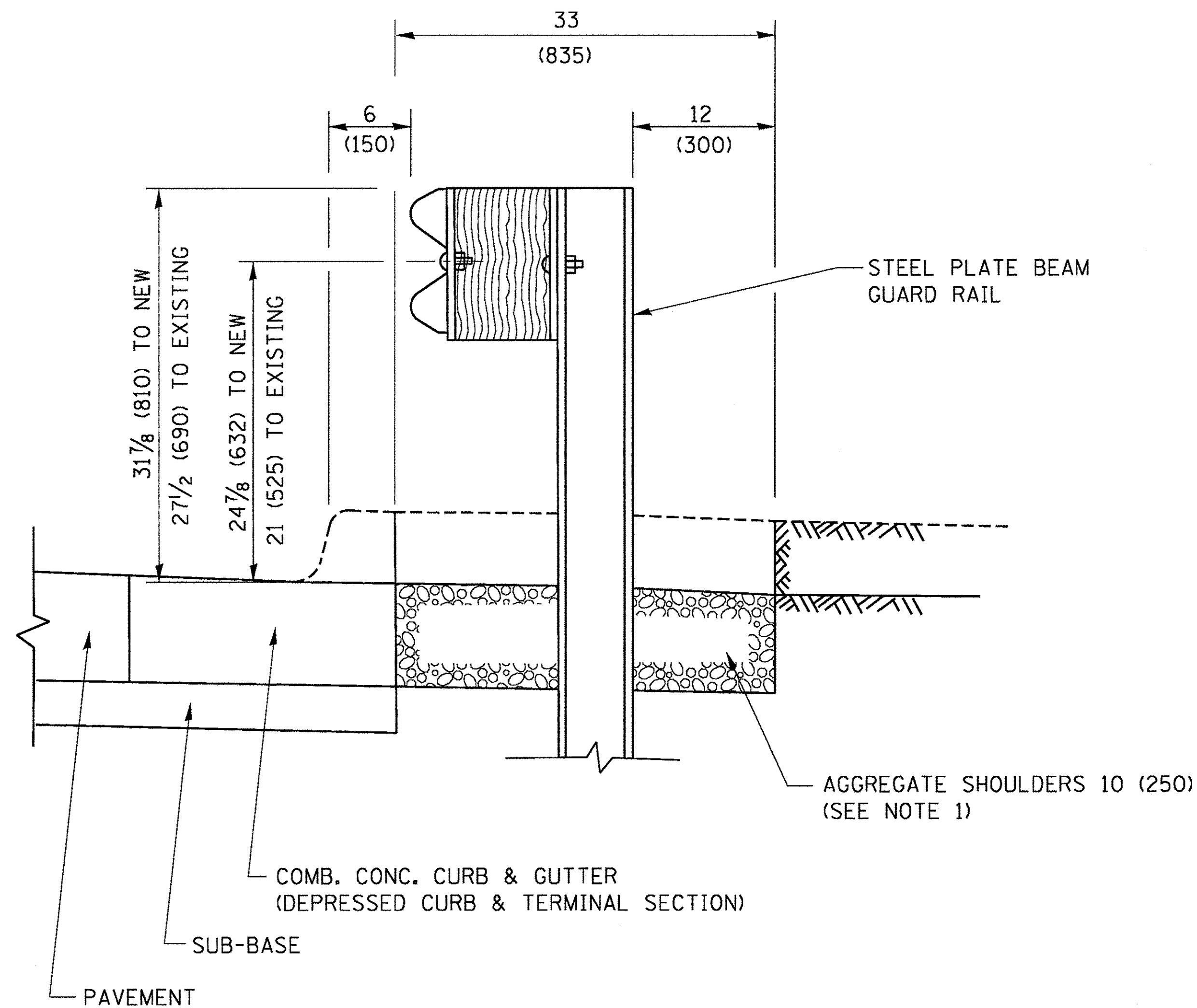
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PLOT SCALE = 50.0000' / IN.		CHECKED -	REVISED - M. GOMEZ 04-06-01
PLOT DATE = 1/4/2008		DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

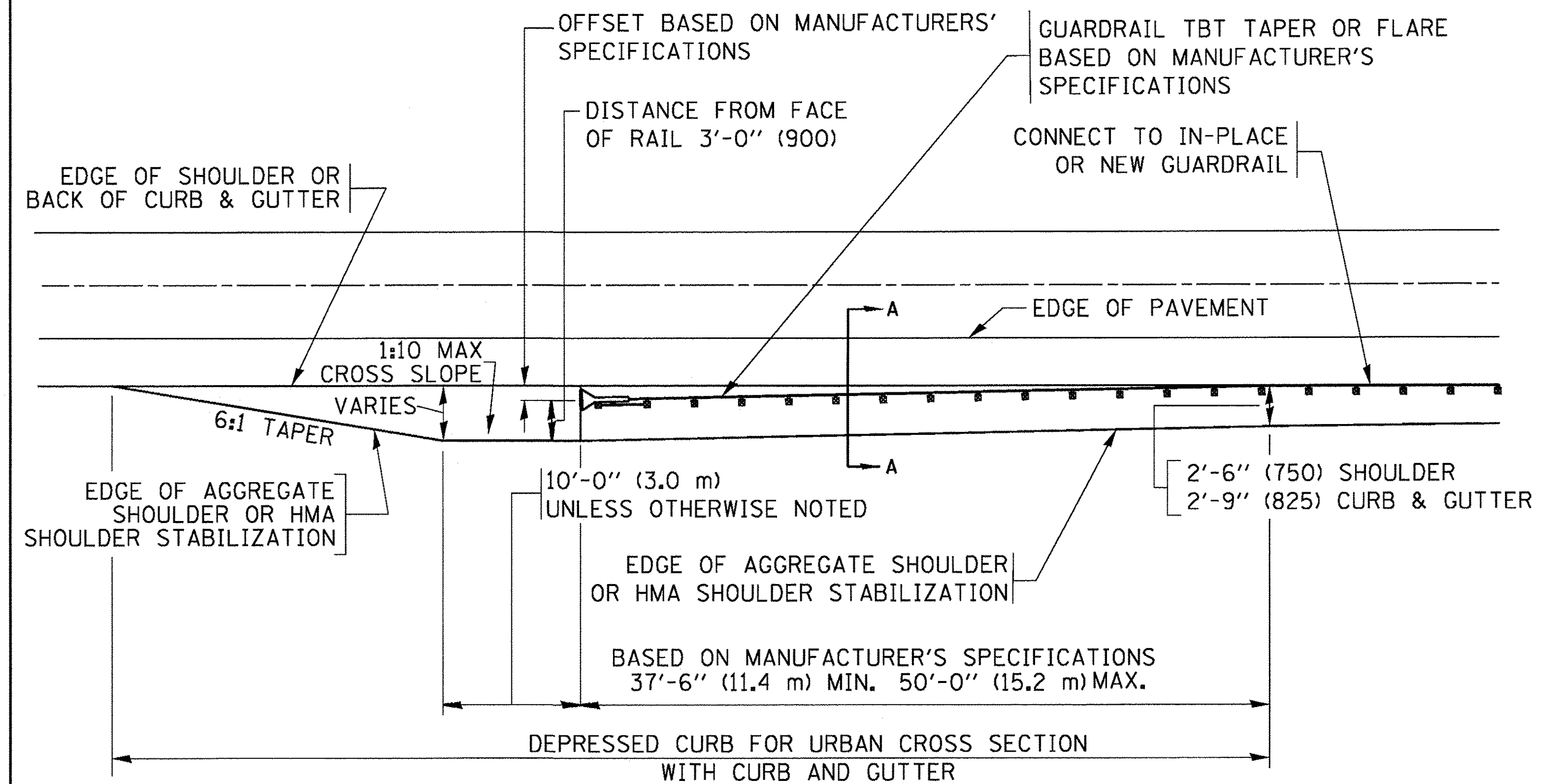
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	125
BD400-05 BD32			CONTRACT NO.61D20	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]**



**DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

AGGREGATE SHOULDER, 10 (250) WILL BE PAID ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = M:\Projects\2013\130282_B1as_Phil\Lead\Civil\Drawings\DT_DT-8034.dgn

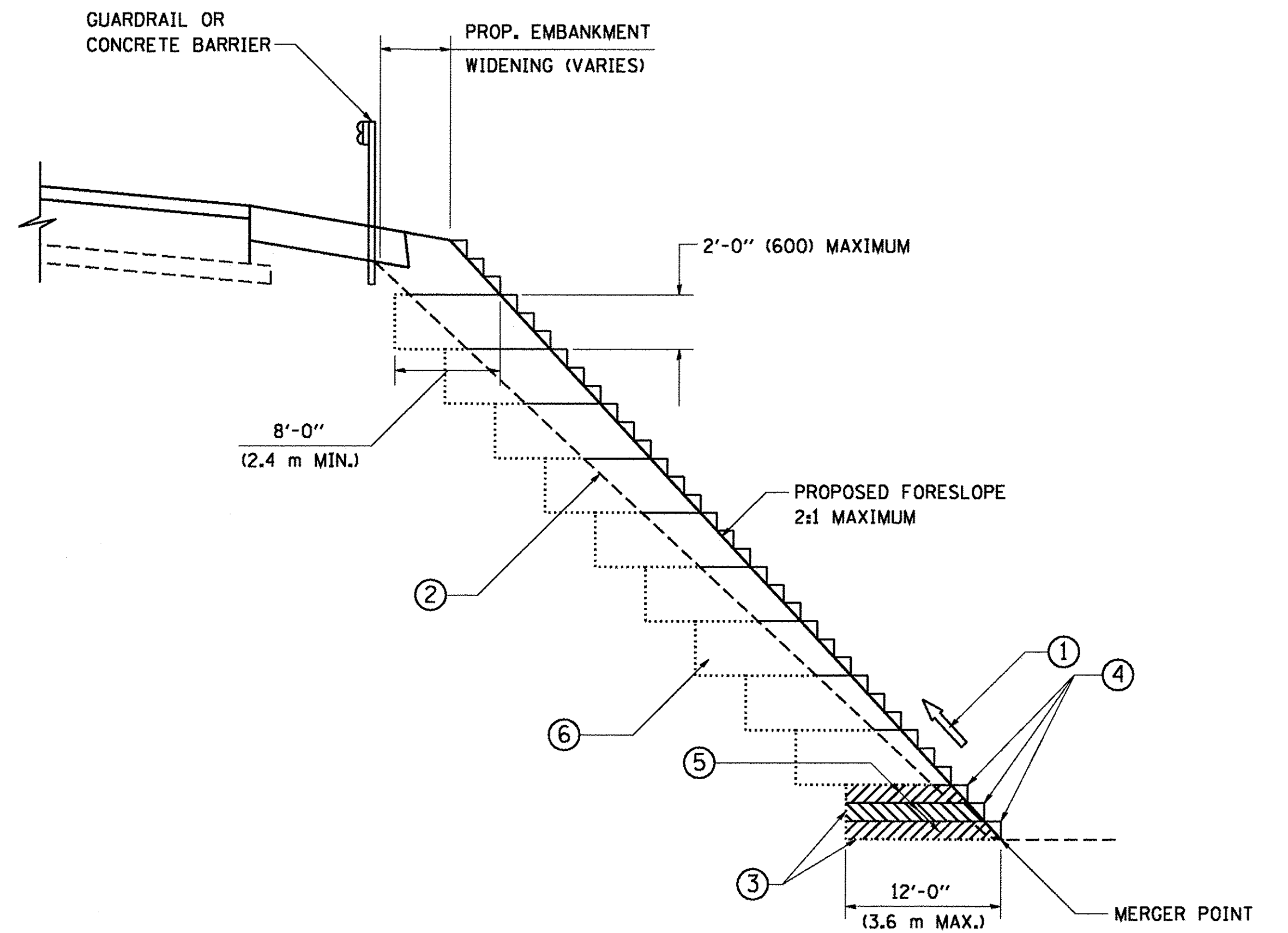
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Default	PLOT SCALE = 50.0000 ' / in.	DATE - 09-22-90	REVISED - R. BORO 08-06-2012
	PLOT DATE = 12/21/2015		REVISED - R. BORO 05-08-2015

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR DEPRESSED CURB & GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

SCALE: NONE SHEET 1 OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	126
BD600-10 (BD 34)			CONTRACT NO.61D20	
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.

FILE NAME = W:\Projects\2013\130282_Bilas_Phil\road\Civil\Drawings\Shr\DT_01-BD51.dgn

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	PLOT DATE = 1/1/2008	DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	127
BD-51			CONTRACT NO. 61D20	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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PLOT DATE = 1/4/2008	

DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
DRAWN -	REVISED - A. HOUSEH 03-06-96
CHECKED -	REVISED - A. HOUSEH 10-15-96
DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

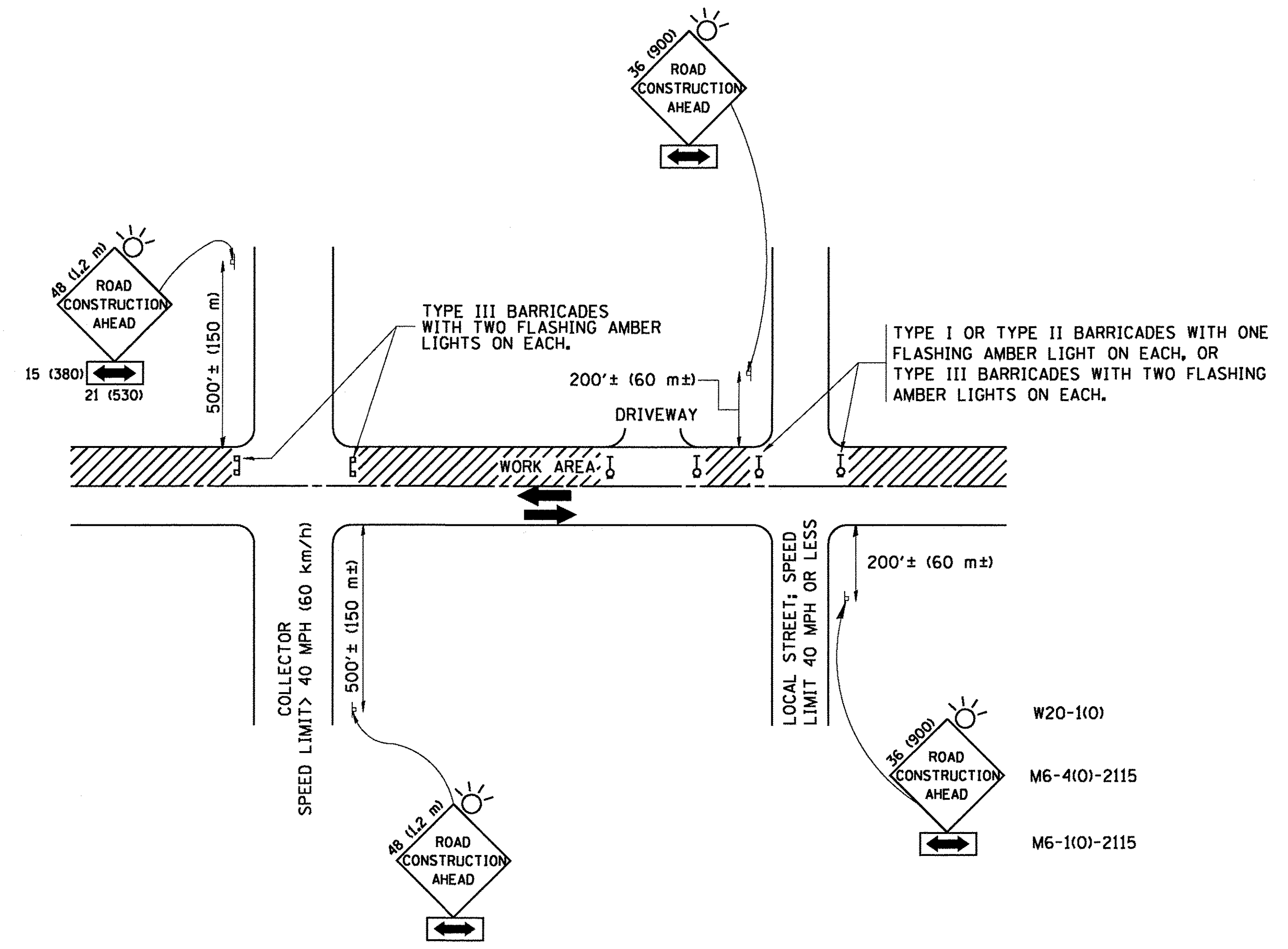
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DRAWN -	REVISED - A. HOUSEH 03-06-96
CHECKED -	REVISED - A. HOUSEH 10-15-96
DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	128
TC-10			CONTRACT NO. 61D20	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



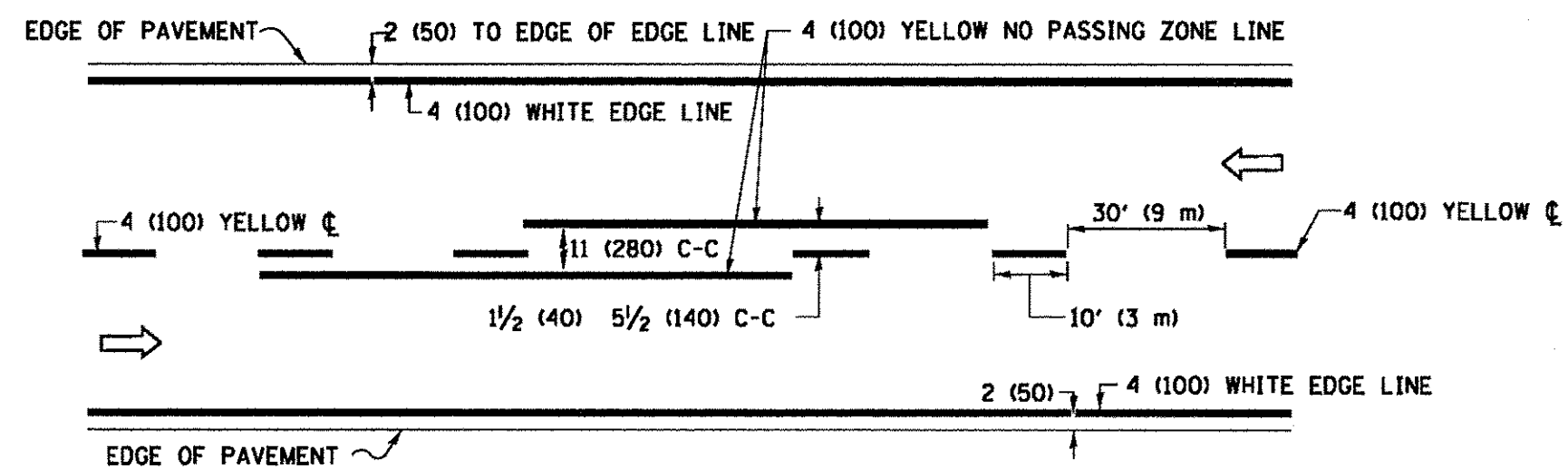
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

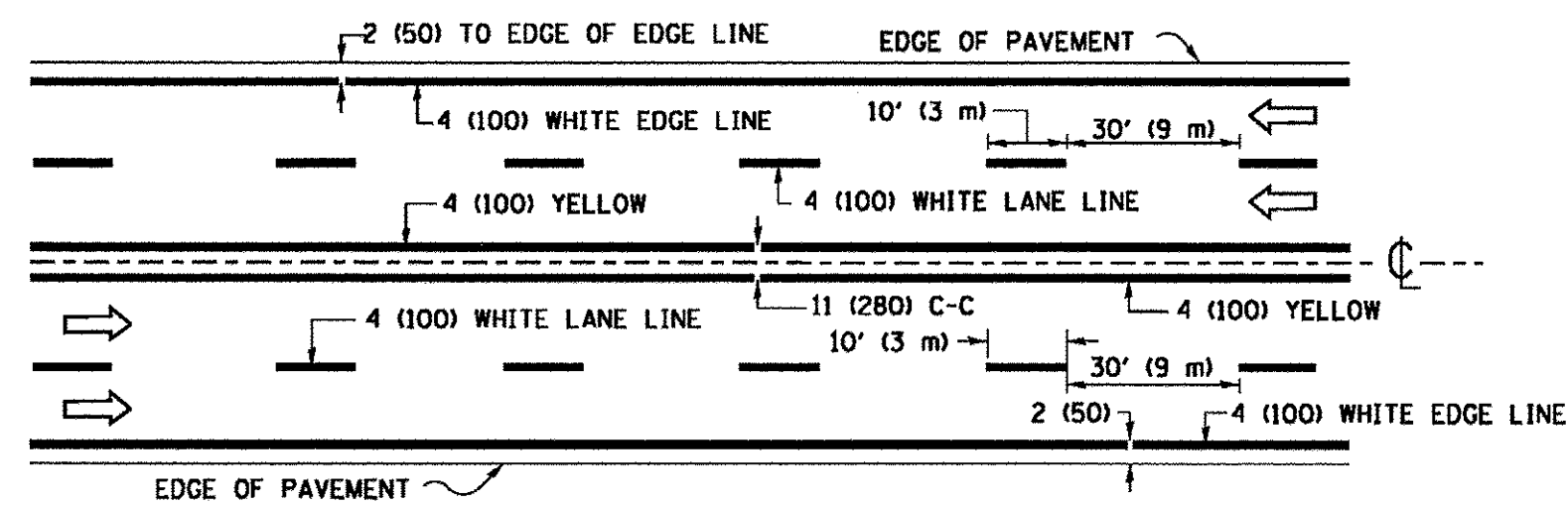
- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS:
 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN 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.

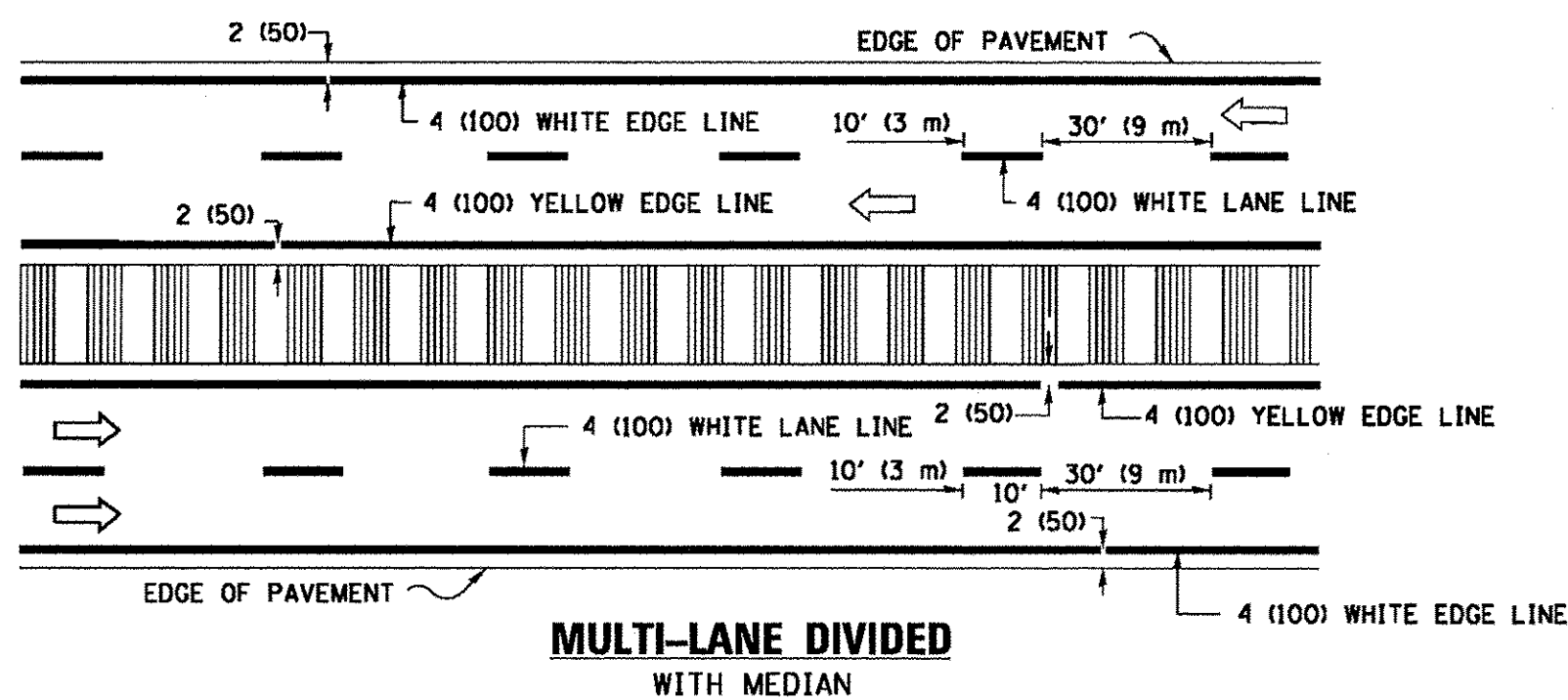
All dimensions are in millimeters (inches) unless otherwise shown.



2-LANE ROADWAY

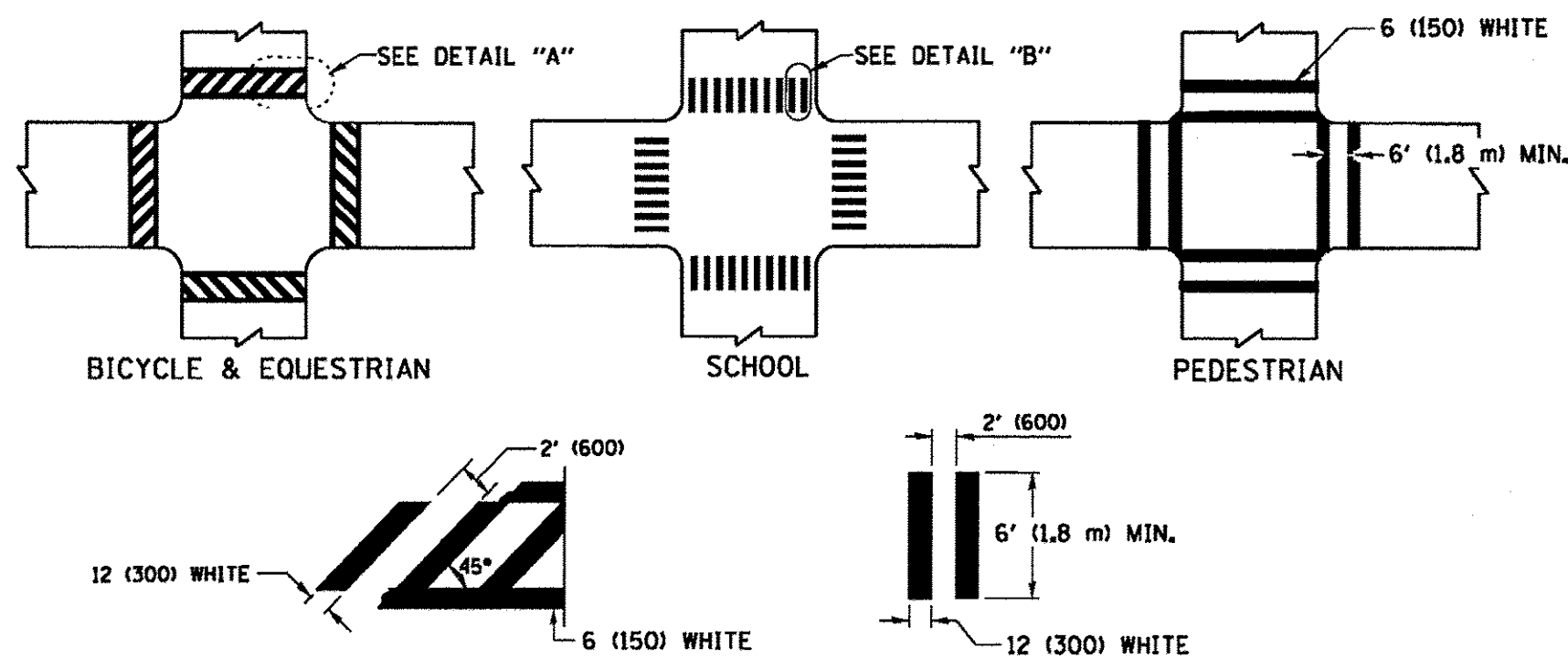


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

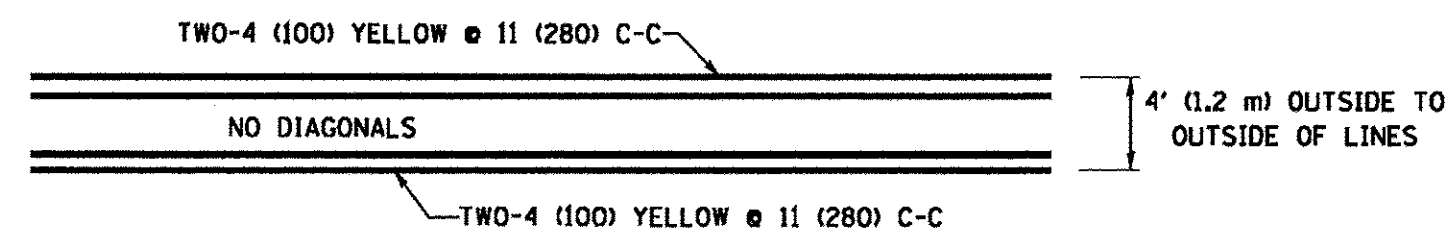


DETAIL "A"

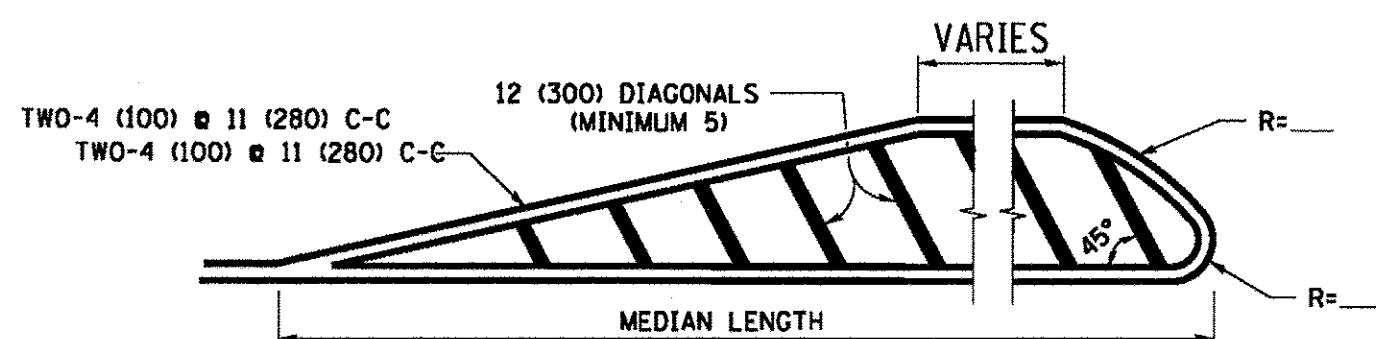
DETAIL "B"

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

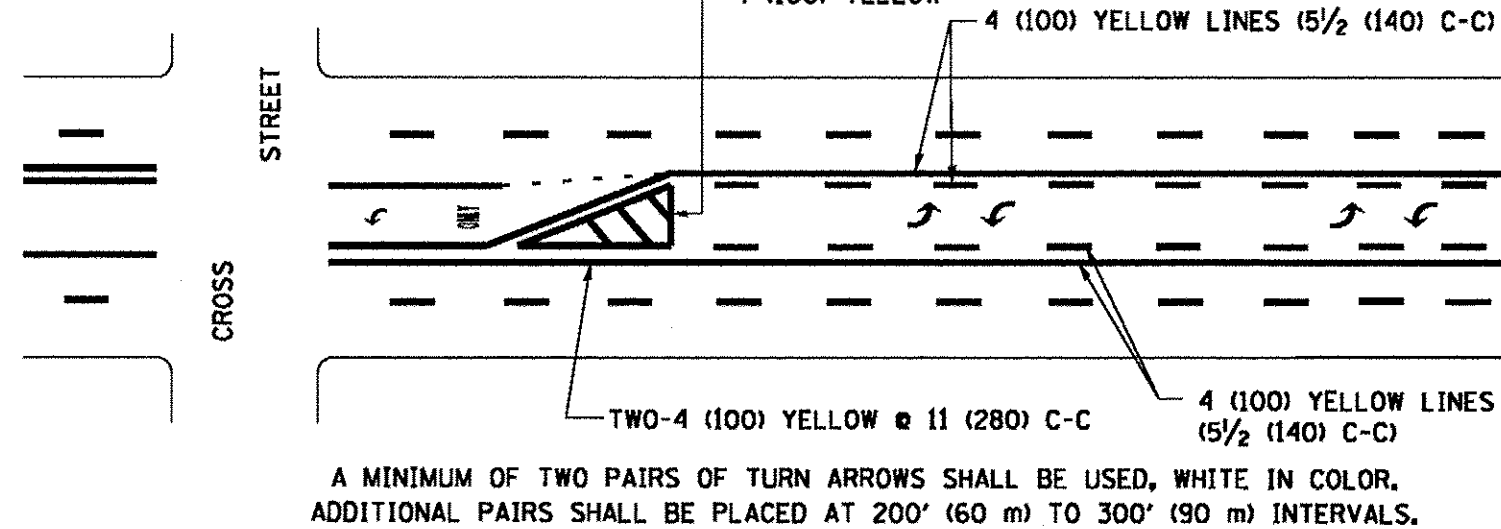


4' (1.2 m) WIDE MEDIANS ONLY

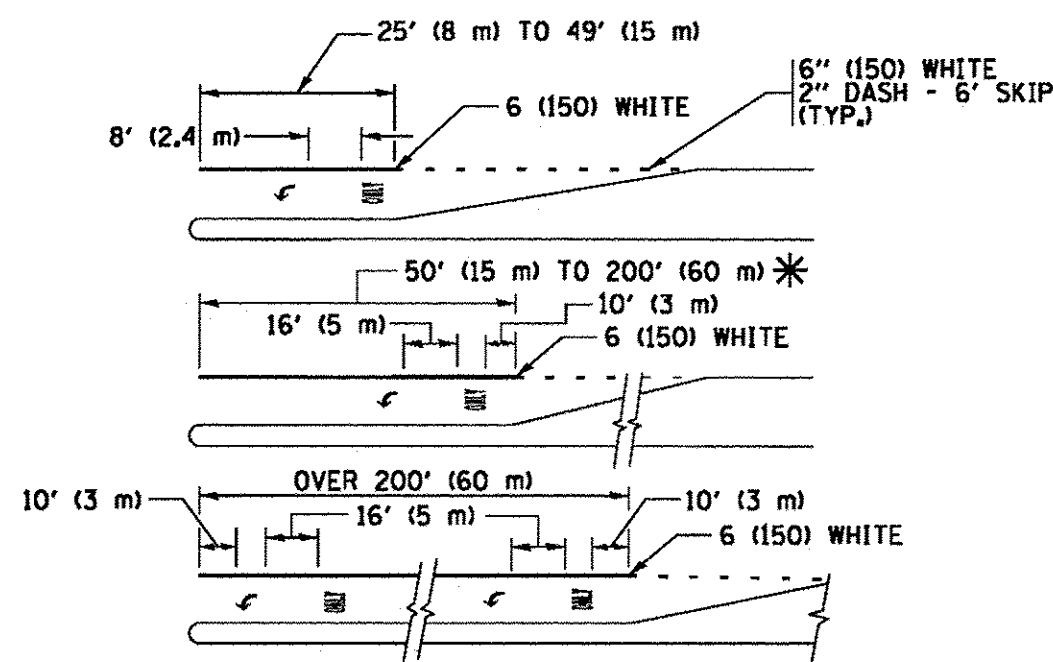


MEDIANS OVER 4' (1.2 m) WIDE

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 (OVER 45MPH (70 km/h))

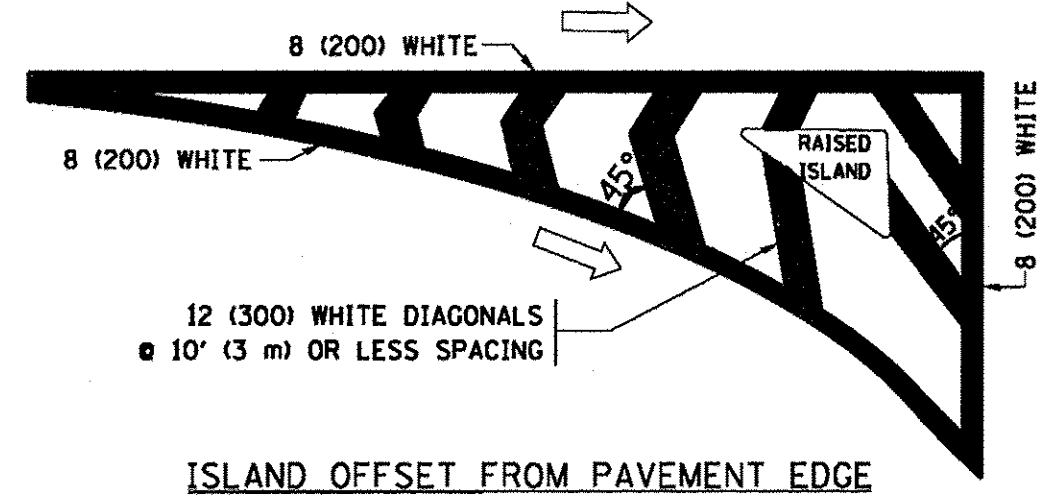


MEDIAN WITH TWO-WAY LEFT TURN LANE
TYPICAL PAINTED MEDIAN MARKING

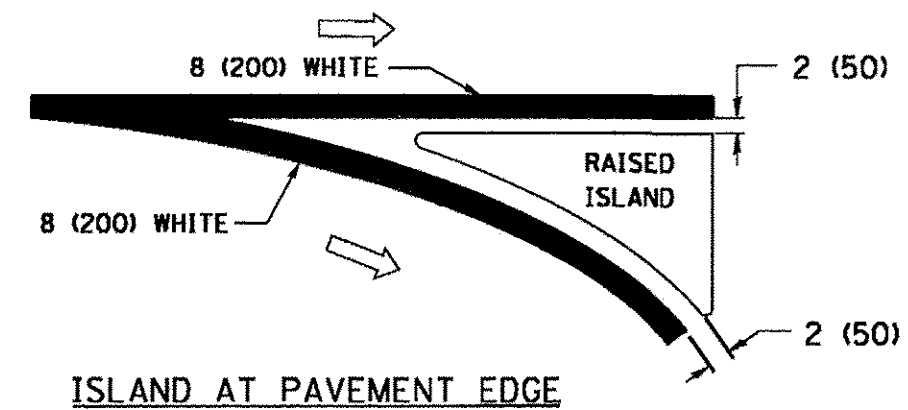


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

TYPICAL LEFT (OR RIGHT) TURN LANE
TYPICAL TURN LANE MARKING

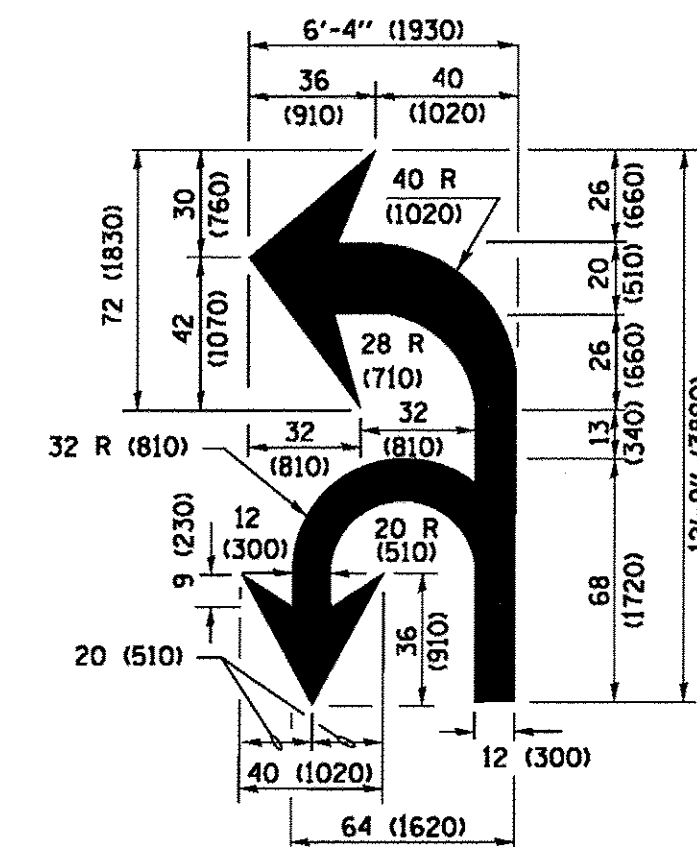


ISLAND OFFSET FROM PAVEMENT EDGE

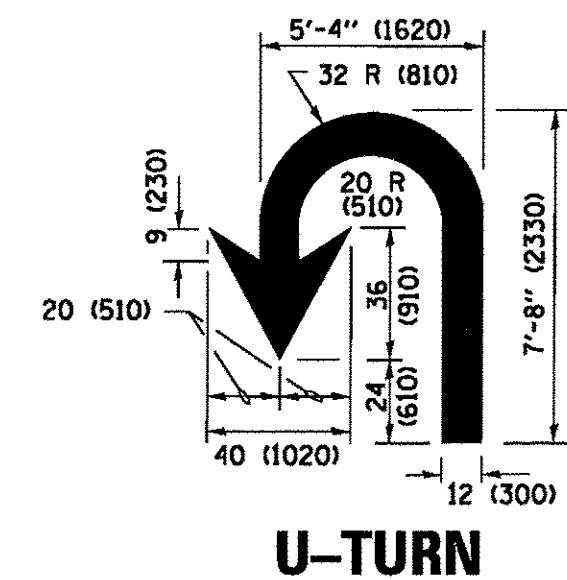


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

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 MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINES 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 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" IS 6' (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 (REQUIRED FOR SHOULDERS ≥ 8')	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))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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.

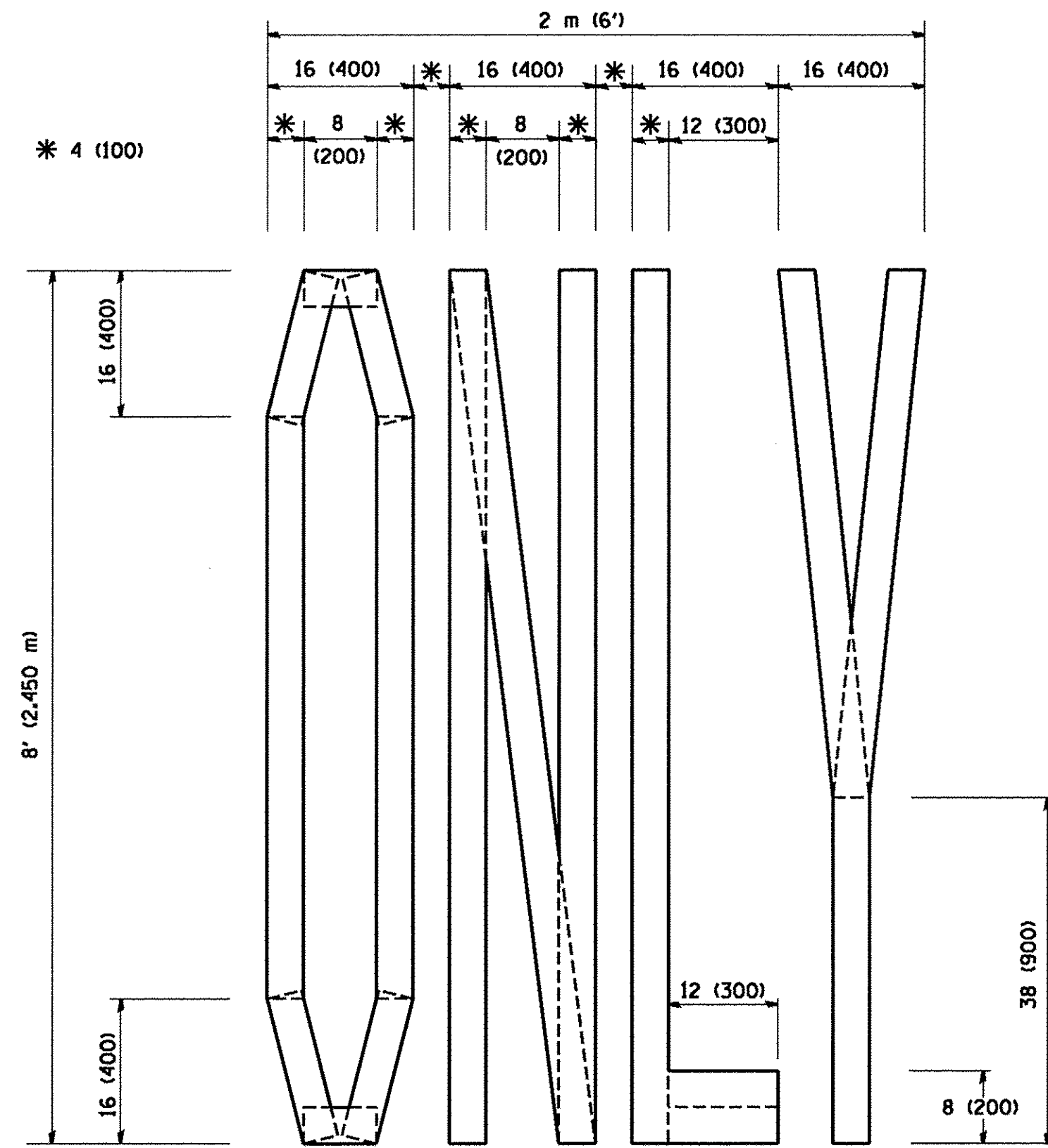
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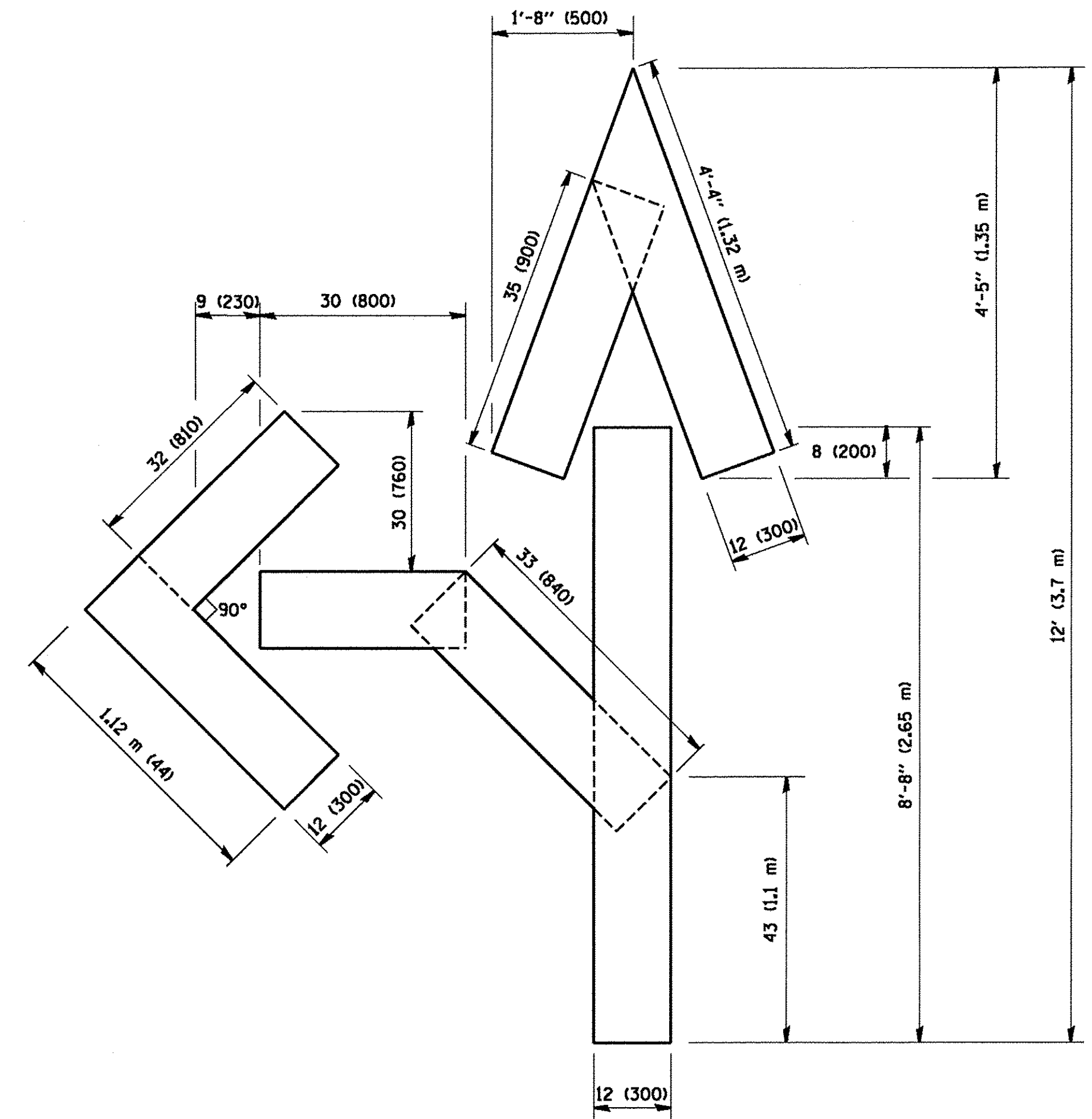
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

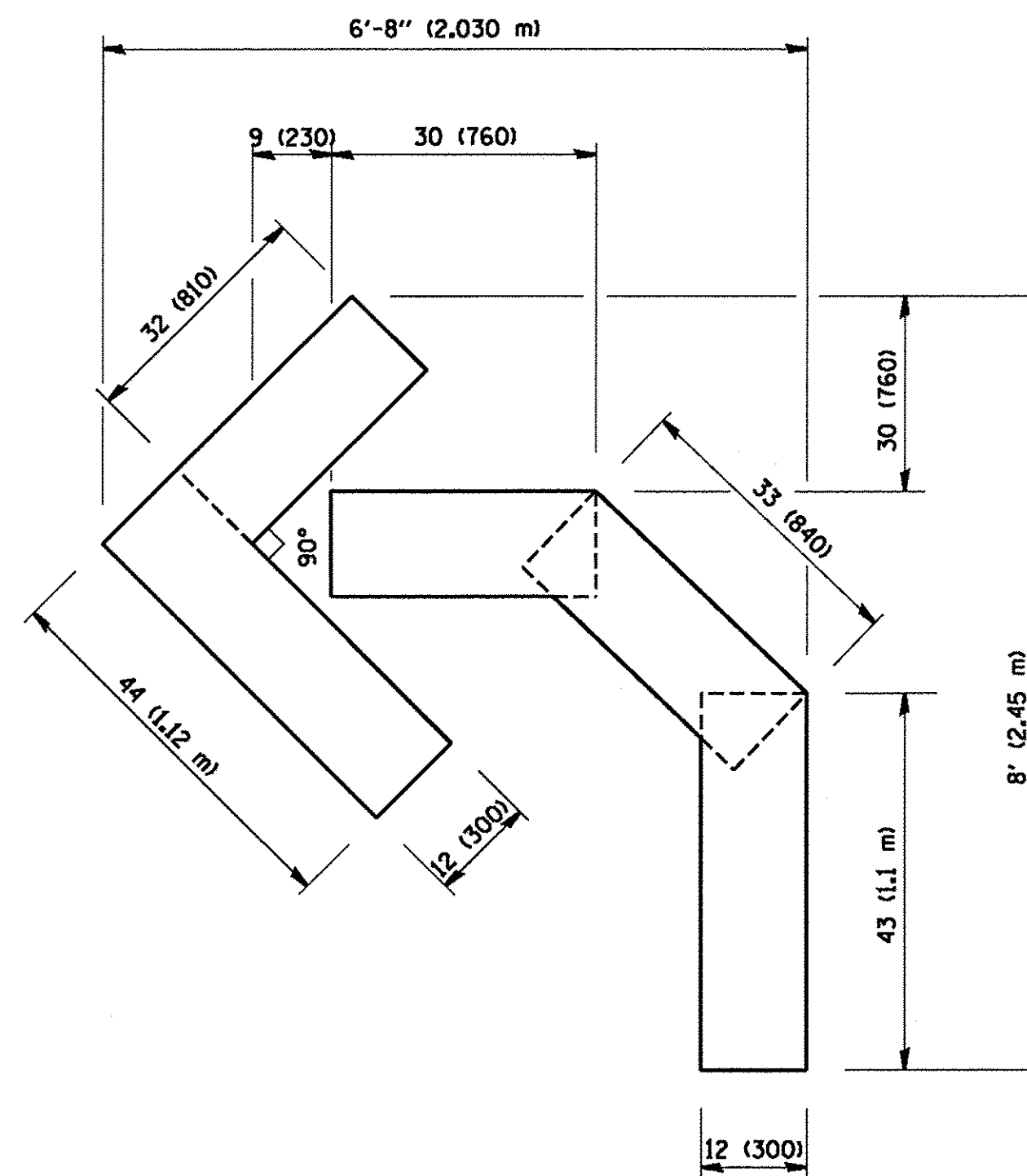
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F.A.P. SECTION COUNTY TOTAL SHEETS SHEET NO.					
520 08-00058-02-BR KANE 218 129					
TC-13 CONTRACT NO.61D20					
ILLINOIS FED. AID PROJECT					



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

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		DRAWN -	REVISED - T. RAMMACHER 11-04-97
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	PLOT DATE = 10/28/2016	DATE - 09-18-94	REVISED - E. GOMEZ 08-28-00

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	130
TC-16		CONTRACT NO. 61D20		
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

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

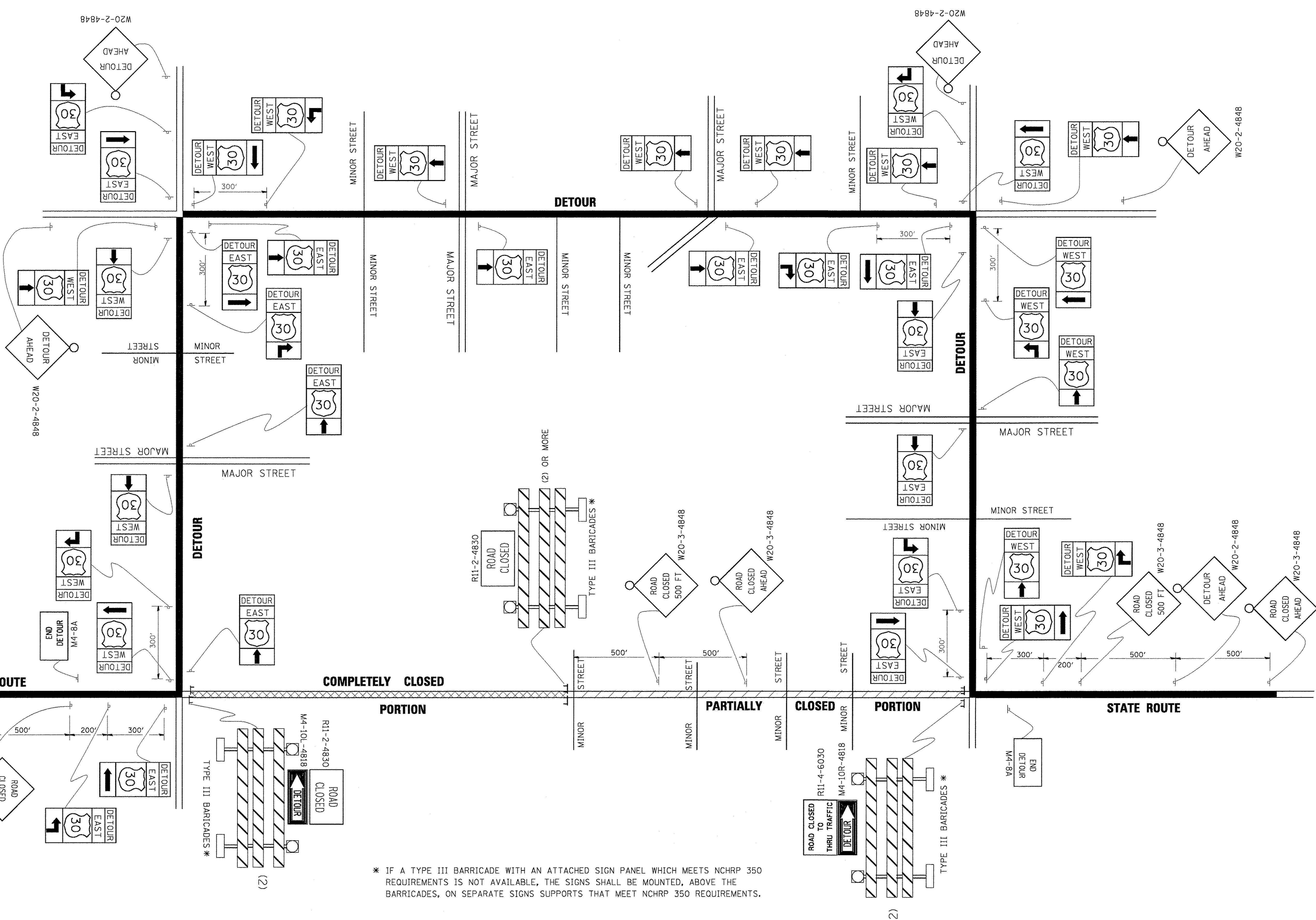
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



* 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.

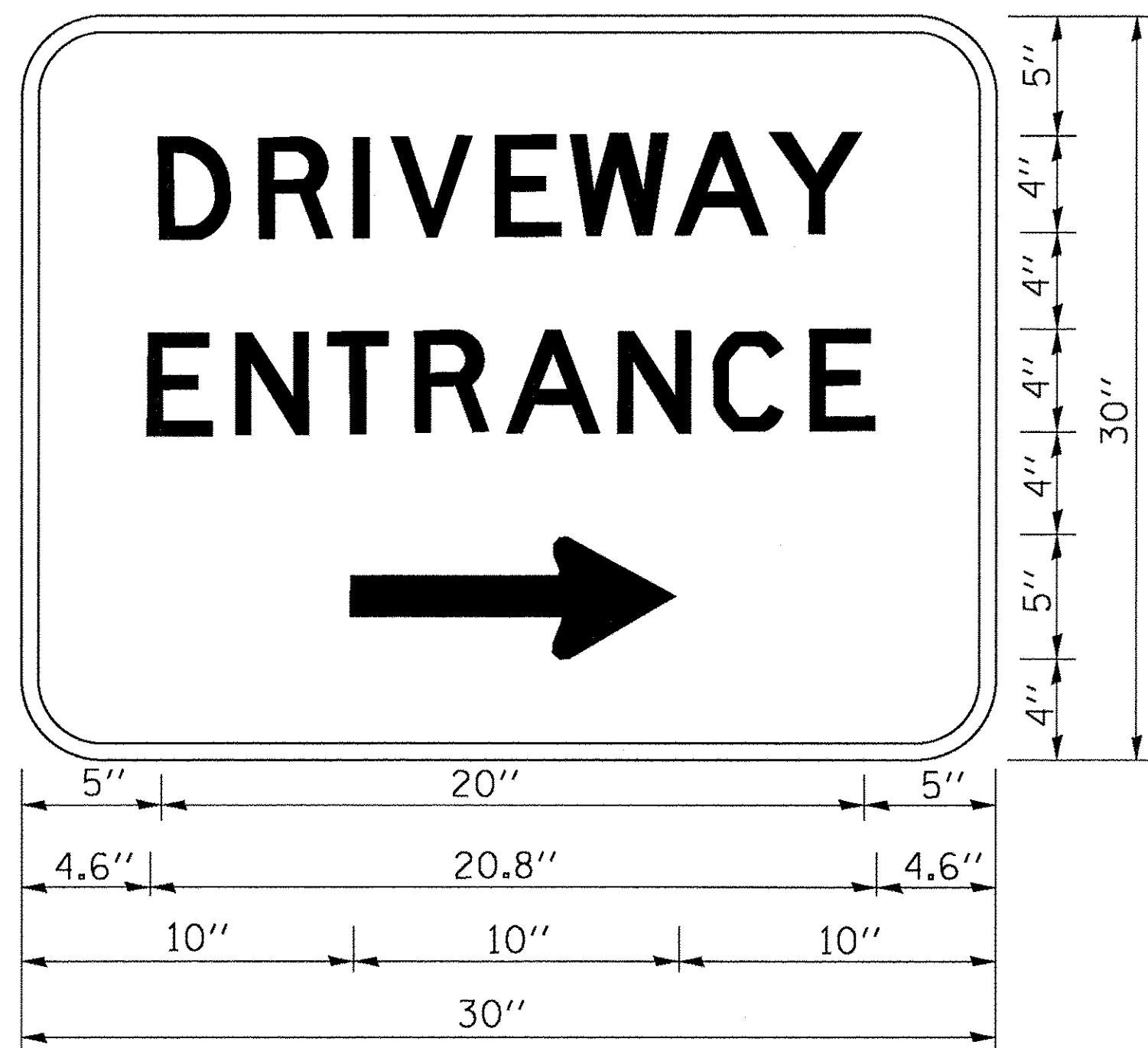
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	PLOT DATE = 10/21/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			
SCALE: NONE	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	131
TC-21			CONTRACT NO. 61D20	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE
 PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN)
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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PLOT DATE = 12/13/2012		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
520	08-00058-02-BR	KANE	218	132
TC-26		CONTRACT NO.61D20		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				