

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAP 526 (SILVER GLEN ROAD) / (C.H. 5)
OVER OTTER CREEK
BRIDGE REPLACEMENT
SECTION: 16-00115-02-BR
PROJECT: HILS(183)
KANE COUNTY
C-91-022-17

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	1
HILS(183)		ILLINOIS	CONTRACT NO. 61F45	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN VILLAGE OF SOUTH ELGIN AND UNINCORPORATED KANE COUNTY

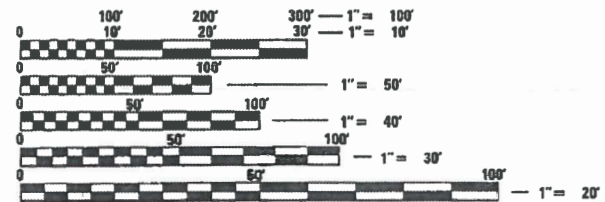
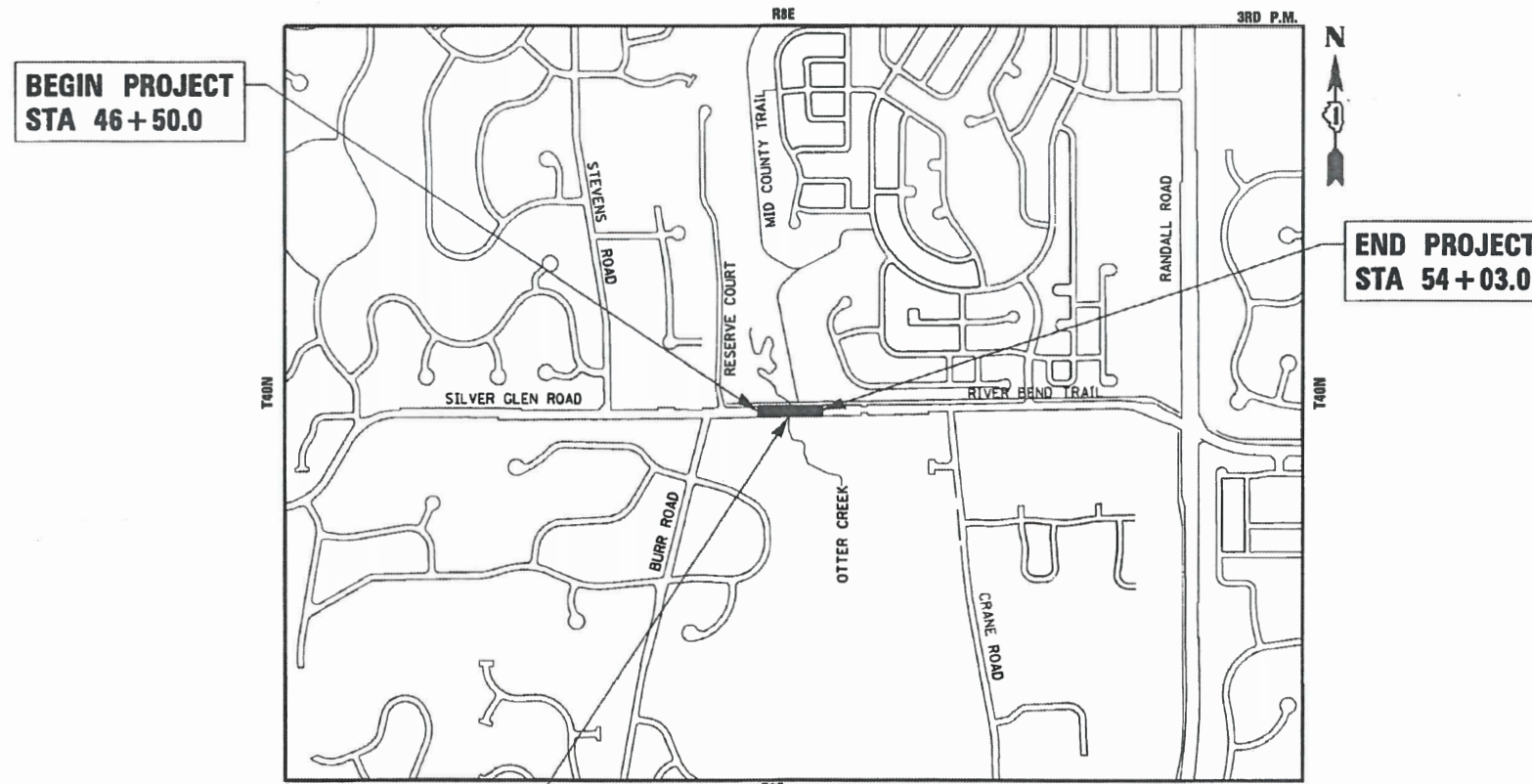
TRAFFIC DATA

SILVER GLEN ROAD

POSTED SPEED LIMIT = 45 MPH
DESIGN SPEED LIMIT = 50 MPH
2015 ADT = 8,200
2040 ADT = 11,000

DESIGN DESIGNATION

MAJOR COLLECTOR (NON-URBAN)



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. DESIGN STAGE REQUEST
DIG. No. X0380996



CONTACT JULIE AT 811 OR 800-892-0123 WITH THE FOLLOWING:
COUNTY = KANE
CITY-TWNSHP. = SOUTH ELGIN - ST CHARLES
SEC. & 1/4 SEC. NO. = S5/8 T40N R8E
48 HOURS (2 working days) BEFORE YOU DIG

CONTRACT NO. 61F45

EX STRUCTURE NO. 045-3122
PR STRUCTURE NO. 045-3161

LOCATION MAP (NOT TO SCALE)
GROSS LENGTH = 753 FT. = 0.14 MILE
NET LENGTH = 753 FT. = 0.14 MILE



Professional Engineer stamps for Denis T. Hogan and Adam Stec, dated 11/19/18.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
APPROVED: Carl Schoedel, COUNTY OF KANE, ENGINEER, 11/19/2018
PASSED: DECEMBER 11, 2018, CHRISTOPHER BLT, DISTRICT ENGINEER OF LOCAL ROADS AND STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW: DECEMBER 11, 2018, Anthony J. Quigley, REGIONAL ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

11/19/2018 1:58:30 PM ...CADD\Projects\160541\B&W\DWG\B&W\160541-Silver Glen over Otter Creek\Drawings\160541-Silver Glen over Otter Creek\Drawings\160541-Silver Glen over Otter Creek.dwg
ENGINEER: CARMEN E. RAMOS, PE, SCHAUMBURG, IL
FEDERAL AID PROGRAM

INDEX OF SHEETS

1 COVER SHEET
 2 INDEX OF SHEETS AND HIGHWAY STANDARDS
 3 GENERAL NOTES
 4 - 7 SUMMARY OF QUANTITIES
 8 - 9 TYPICAL SECTIONS
 10 EARTHWORK SCHEDULE
 11 - 12 ALIGNMENT, TIES AND BENCHMARKS
 13 EXISTING CONDITIONS AND REMOVAL PLAN
 14 - 15 PLAN AND PROFILE- SILVER GLEN ROAD
 16 PLAN AND PROFILE-RIVER BEND TRAIL
 17 MAINTENANCE OF TRAFFIC- GENERAL NOTES, SEQUENCE OF CONSTRUCTION AND SIGNAGE
 18 - 19 MAINTENANCE OF TRAFFIC- TYPICALS SECTIONS
 20 MAINTENANCE OF TRAFFIC- STAGE 1
 21 MAINTENANCE OF TRAFFIC- STAGE 2A
 22 MAINTENANCE OF TRAFFIC- STAGE 2B
 23 MAINTENANCE OF TRAFFIC- STAGE 3A
 24 MAINTENANCE OF TRAFFIC- STAGE 3B
 25 MAINTENANCE OF TRAFFIC- TRUCK DETOUR
 26 EROSION AND SEDIMENT CONTROL PLAN
 27 EROSION AND SEDIMENT CONTROL DETAILS
 28 - 29 DRAINAGE AND UTILITIES PLAN
 30 GRADING PLAN
 31 PAVEMENT MARKING, SIGNAGE, AND LANDSCAPING PLAN
 32 - 38 DISTRICT ONE DETAIL - STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05)
 39 TEMPORARY TRAFFIC SIGNAL PLAN- STAGE 1
 40 TEMPORARY TRAFFIC SIGNAL PLAN- STAGE 2A
 41 TEMPORARY TRAFFIC SIGNAL PLAN- STAGE 2B
 42 TEMPORARY TRAFFIC SIGNAL PLAN- STAGE 3A
 43 TEMPORARY TRAFFIC SIGNAL PLAN- STAGE 3B
 44 TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
 45 - 68 STRUCTURAL PLANS
 69 DISTRICT ONE DETAIL - BUTT JOINTS AND HMA TAPER (BD-32)
 70 DISTRICT ONE DETAIL - BENCHING DETAIL FOR EMBANKMENT WIDENING (BD-51)
 71 DISTRICT ONE DETAIL - TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
 72 DISTRICT ONE DETAIL - TYPICAL PAVEMENT MARKINGS (TC-13)
 73 DISTRICT ONE DETAIL - DETOUR SIGNING FOR CLOSING STATE HIGHWAYS (TC-21)
 74 DISTRICT ONE DETAIL - ARTERIAL ROAD INFORMATION SIGN (TC-22)
 75 - 78 CROSS SECTIONS - SILVER GLEN ROAD
 79 - 81 CROSS SECTIONS - OTTER CREEK

HIGHWAY STANDARDS

000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
 001001-02 AREAS OF REINFORCEMENT BARS
 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
 420406 PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
 482011-03 HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
 515001-03 NAME PLATE FOR BRIDGES
 601101-02 CONCRETE HEADWALL FOR PIPE UNDERDRAINS
 602306-03 INLET - TYPE B
 604001-04 FRAME AND LIDS TYPE 1
 630001-12 STEEL PLATE BEAM GUARDRAIL
 630201-07 PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
 631031-15 TRAFFIC BARRIER TERMINAL, TYPE 6
 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
 701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
 701306-04 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
 701316-12 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS > 45 MPH
 701321-17 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
 701901-08 TRAFFIC CONTROL DEVICES
 704001-08 TEMPORARY CONCRETE BARRIER
 720001-01 SIGN PANEL MOUNTING DETAILS
 720006-04 SIGN PANEL ERECTION DETAILS
 720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
 725001-01 OBJECT AND TERMINAL MARKERS
 780001-05 TYPICAL PAVEMENT MARKINGS
 782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
 862001-01 UNINTERRUPTABLE POWER SUPPLY (UPS)
 880001-01 SPAN WIRE MOUNTED SIGNALS AND FLASHING BEACON INSTALLATION

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 765aks 12/17/2018 4:02:53 PM
 FILE NAME: I:\Crystal Lake\KANCHI\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541-SHT-GenNotes.dgn



USER NAME = 765aks	DESIGNED - AKS	REVISED -
	DRAWN - CJC	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - DTH	REVISED -
PLOT DATE = 12/17/2018	DATE - 11-26-18	FILE - 160541SHT-GenNotes.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND HIGHWAY STANDARDS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	2
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HILS(183)				

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS") ADOPTED APRIL 1, 2016, THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JAN 1, 2019, AND THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" 2009 EDITION.
2. BEFORE STARTING ANY EXCAVATIONS, THE CONTRACTOR SHALL CALL "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, WATER 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.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE NATURE AND STATUS OF ALL UTILITY RELOCATION WORK PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT INTERFERE WITH UTILITY FACILITIES AND RELOCATION WORK. THE CONTRACTOR'S SCHEDULE SHOULD REFLECT CONSTRUCTION SEQUENCING WHICH COORDINATES WITH ALL UTILITY RELOCATION WORK. THE CONTRACTOR SHALL BE REQUIRED TO ADJUST THE SEQUENCE SCHEDULE OF WORK TO COORDINATE WITH THE RELOCATION SCHEDULE OF CONFLICTING UTILITY COMPANIES.
5. ALL RELEVANT UTILITIES SHALL BE NOTIFIED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. SEE SPECIAL PROVISIONS FOR STATUS OF UTILITIES FOR CONTACT INFORMATION OF UTILITY OWNERS.
6. UTILITY ADJUSTMENTS FOR PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENT SHALL BE MADE BY THE RESPECTIVE OWNERS.
7. THE CONTRACTOR'S SUPERINTENDENT OR AUTHORIZED AGENT, AS DEFINED IN ARTICLE 105.06 OF THE STANDARD SPECIFICATIONS, MUST BE AVAILABLE IN CASE OF EMERGENCIES ON A TWENTY-FOUR (24) HOUR BASIS.
8. IT IS THE CONTRACTORS RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT.
9. AT THE TIME OF THE PRECONSTRUCTION MEETING, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THE PROPOSED CONCRETE TRUCK WASHOUT LOCATIONS. RUNOFF FROM WASH AREAS SHALL BE CONTAINED IN DESIGNATED AREAS SO THAT RUNOFF DOES NOT REACH THE CREEK.
10. THE DAY'S PAVING OPERATION SHOULD RESULT IN A SINGLE TRANSVERSE JOINT. ANY COLD LONGITUDINAL JOINTS WILL NOT BE ACCEPTED. PROVIDING A SINGLE TRANSVERSE JOINT SHALL BE ACCOMPLISHED BY PAVING ONE LANE OF SUFFICIENT LENGTH THAT WILL ALLOW FOR THE PAVING OF THE ADJACENT LANE IN THE SAME DAY.
11. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND SHALL NOT EXCEED 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. A MAXIMUM GRADE DIFFERENCE OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H), AS DETERMINED BY THE ENGINEER.
12. PAVEMENT ELEVATIONS SHOWN ON THE PLANS ARE FINISHED GRADES FOR THE PROPOSED PAVEMENT OR SURFACE COURSE, UNLESS OTHERWISE INDICATED.
13. CHANNEL EXCAVATION OPERATIONS SHALL BE DONE WHEN WATER LEVEL IS AT OR BELOW NORMAL WATER SURFACE ELEVATION OR AS APPROVED BY THE ENGINEER.
14. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO ALL EXISTING AND PROPOSED DRAINAGE STRUCTURES AT ALL TIMES DURING CONSTRUCTION. METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
15. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER.
16. THE SURVEY DATUM USED FOR THIS PROJECT IS NAVD88.
17. EARTHWORK SHALL BE PAID FOR ONLY ONCE REGARDLESS OF STAGING, STOCK PILING OF MATERIALS FOR LATER USE AND REDISTRIBUTION AND RESPREADING IN SHOULDERS AND CONSTRUCTING EMBANKMENTS.
18. ALL EXCAVATION AND EMBANKMENT LOCATIONS REQUIRING SEEDING SHALL BE CONSTRUCTED TO 6 INCHES BELOW FINISHED GRADE TO ALLOW FOR TOPSOIL PLACEMENT.

19. AGGREGATE SUBGRADE IMPROVEMENT (ASI) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED. A QUANTITY OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL ALSO BE DEDUCTED. POTENTIAL UNDERCUT LOCATIONS ARE LISTED IN THE TYPICAL SECTIONS.
20. THE RESIDENT ENGINEER WILL ONLY ACCEPT FIELD QUANTITY VERIFICATIONS FOR ALL EARTHWORK ITEMS BASED UPON THE CROSS SECTIONS SUPPLIED ON THE PLANS. THE ONLY METHOD OF CALCULATING THE VOLUME OF QUANTITIES SHALL BE AVERAGE END AREA BASED UPON THE CROSS SECTIONS SUPPLIED. NO ADJUSTMENTS TO THE QUANTITIES WITH BE MADE BY THE USE OF ANY OTHER CALCULATION METHOD. NO COMPUTER PROGRAMS WILL BE ACCEPTED FOR THE QUANTITY MEASUREMENT. THE CONTRACTOR SHALL NOTIFY THE OWNER IN WRITING (PRIOR TO ANY WORK AT THE SITE AS TO ANY DISCREPANCY FOUND WITH THE EXISTING TOPOGRAPHY OR CROSS SECTIONS).
21. ALL EXISTING GRASS AREAS DISTURBED BY THE CONSTRUCTION OPERATIONS SHALL BE SEEDED OR SODDED AS DETERMINED BY THE RESIDENT ENGINEER.
22. ALL DISTURBED AREAS RESULTING FROM TOPSOIL STRIPPING, EARTH EXCAVATION AND ALL OTHER CONSTRUCTION OPERATIONS THAT ARE LEFT DISTURBED FROM A PERIOD OF TIME THAT IS GREATER THAN SEVEN (7) DAYS SHALL BE PROTECTED FROM EROSION BY BEING CONSTRUCTED TO THE PROPOSED GRADE AND COMPLETED CONDITION INCLUDING ALL SEEDING, FERTILIZER AND EROSION BLANKET IN ACCORDANCE WITH THE PLANS AND CONTRACT DOCUMENTS.
23. THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THIS BRIDGE. SEE AVAILABLE REPORTS SPECIFICATION FOR CONTACT INFORMATION TO OBTAIN EXISTING BRIDGE PLANS.
24. THE CONTRACTOR WILL NOT BE ALLOWED TO SETUP A YARD OR FIELD OFFICE ON PRIVATE, CITY OR COUNTY PROPERTY WITHOUT WRITTEN PERMISSION FROM SAID OWNER AND THE ENGINEER.
25. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR.
26. THE CONTRACTOR SHALL CONFIRM THE TEMPORARY EROSION CONTROL MEASURES ARE IN PLACE IN THE CURRENT WORK AREA BEFORE MOVING TO A DIFFERENT WORK LOCATION AS SPECIFIED HEREIN AND AS DETERMINED BY THE RESIDENT ENGINEER.
27. THE CONTRACTOR SHALL COMPLY WITH ALL THE PROVISIONS OF THE KANE/DUPAGE SOIL & WATER CONSERVATION DISTRICT, US ARMY CORP OF ENGINEERS, IDOT FLOODWAY AND ALL OTHER PERMITS REQUIRED.
28. THE CONTRACTORS SHALL TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER AND NOISE POLLUTION.
29. NO TRAFFIC CONTROL SIGNS SHALL BE MOUNTED ON EXISTING SIGNS.

SIGNING NOTES

30. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR AND ENGINEER SHALL INVENTORY THE LOCATION, SIZE, TYPE AND CONDITION OF ALL EXISTING SIGNS. ANY SIGN DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR.
31. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE EXISTING SIGNS AND SHALL REMOVE AND RE-INSTALL ALL SIGNS SHOWN IN THE PAVEMENT MARKING, SIGNAGE AND LANDSCAPING PLAN SHEETS.
32. ALL SIGNS SHALL BE ERECTED IN STRICT CONFORMANCE WITH SECTION 720 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND BY STATE PRE-QUALIFIED CONTRACTOR PERSONNEL, SUCH AS A SUB CONTRACTOR THAT SPECIALIZES IN TRAFFIC CONTROL AND SIGN PLACEMENT, TO INSURE THIS OPERATION IS PERFORMED CORRECTLY THERE WILL BE A WALKTHRU ON THE JOB WITH THE ENGINEER AS PART OF THE OVERALL PUNCH LIST.
33. ALL WORK INVOLVING SIGNS SHALL BE GOVERNED BY THE FOLLOWING REQUIREMENTS:
 - A. SIGNS SHALL NOT BE MOVED UNTIL PROGRESS OF WORK NECESSITATES IT.
 - B. THE CONTRACTOR WILL BE REQUIRED TO TEMPORARILY RESET ALL SUCH SIGNS THAT INTERFERE WITH HIS WORK DURING CONSTRUCTION OPERATIONS. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING AND MUST BE RE-ERECTED AT A TEMPORARY LOCATION AND BE VISIBLE TO TRAFFIC FOR WHICH IT IS INTENDED.

- C. ALL SIGNS SHALL BE INSTALLED OR RELOCATED IN PERMANENT LOCATIONS AS THE ROADWAY IS COMPLETED. THIS WORK SHALL BE PAID FOR USING THE APPROPRIATE PAY ITEM.
- D. ALL REMOVED SIGNS WILL BE RETURNED TO THE COUNTY AT 41W011 BURLINGTON ROAD, ST CHARLES. THE CONTRACTOR SHALL COORDINATE WITH THE COUNTY ON A DATE TO RETURN THE SIGNS.
- E. LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS.

DRAIN TILE NOTE:

34. ANY FARM DRAIN, FIELD TILE SYSTEM OR OTHER TILE FACILITY ENCOUNTERED DURING THE PROPOSED WORK SHALL BE LOCATED, STAKED AND REPORTED TO THE RESIDENT ENGINEER. DRAINAGE LINES WHICH ARE CUT OR DAMAGED BY GRADING, TRENCHING, EXCAVATION OR OTHER CONSTRUCTION ACTIVITIES SHALL BE REPAIRED SO AS TO MAINTAIN ITS ORIGINAL ALIGNMENT. IF THIS CANNOT BE ACCOMPLISHED, THE TILE SHALL BE REPAIRED AND CONNECTED TO THE PROPOSED STORM SEWER SYSTEM OR DITCH IN SUCH A MANNER AS TO RENDER THE LINES USABLE FOR THE PURPOSES INTENDED. THE WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS.
35. ANY DRAIN TILE LINES WHICH ARE CUT OR DAMAGED DURING CONSTRUCTION ACTIVITIES SHALL BE REPAIRED SO AS TO MAINTAIN ITS ORIGINAL ALIGNMENT. THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 611. REPLACEMENT SHALL BE DRAIN PIPE OF THE SAME PIPE SIZE, WITH A MINIMUM REPLACEMENT BEING DRAIN PIPE, 12". A TYPE B INLET WITH TYPE 1 CLOSED LID SHALL BE INSTALLED TO CONNECT THE TILES. A NOMINAL QUANTITY OF EACH ITEM HAS BEEN ADDED TO THE PLANS.
36. ALL ABANDONED DRAIN TILES WITHIN DISTURBED AREAS SHALL BE REMOVED IN THEIR ENTIRETY.

COMMITMENTS

1. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS TO THE RIVER BEND TRAIL OVER OTTER CREEK DURING CONSTRUCTION.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 765aks 12/17/2018 4:02:59 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT-GenNotes.dgn
 FILE PATH: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT-GenNotes.dgn
 ...:\p\cd\drv\pdf\Bw_Default.plt
 ...:\CADD\Drawings\160541_PEN.tbl
 I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT-GenNotes.dgn

	USER NAME = 765aks	DESIGNED - AKS	REVISED -
		DRAWN - CJC	REVISED -
	PLOT SCALE = 20.0000' / in.	CHECKED - DTH	REVISED -
	PLOT DATE = 12/17/2018	DATE - 11-26-18	FILE - 160541SHT-GenNotes.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	3
				CONTRACT NO. 61F45
ILLINOIS FED. AID PROJECT HILS(183)				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% LOCAL	80% FED 20% LOCAL	80% FED 20% LOCAL
				ROADWAY	BRIDGE	TRAFFIC SIGNAL
				5	10	21
	NON-URBAN	NON-URBAN	NON-URBAN			
20101100	TREE TRUNK PROTECTION	EACH	5	5		
* 20101200	TREE ROOT PRUNING	EACH	5	5		
* 20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	5	5		
20200100	EARTH EXCAVATION	CU YD	1,799	1,799		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	256	256		
20300100	CHANNEL EXCAVATION	CU YD	445	445		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	867	867		
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	445	445		
* 25000210	SEEDING, CLASS 2A	ACRE	0.50	0.50		
* 25000314	SEEDING, CLASS 4B	ACRE	0.25	0.25		
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	68	68		
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	68	68		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	53	53		
28000305	TEMPORARY DITCH CHECKS	FOOT	40	40		
28000400	PERIMETER EROSION BARRIER	FOOT	1,640	1,640		
28000510	INLET FILTERS	EACH	1	1		

* INDICATES SPECIALTY ITEM
 S INDICATES CONSTRUCTION CODE 0042 TRAINEES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% LOCAL	80% FED 20% LOCAL	80% FED 20% LOCAL
				ROADWAY	BRIDGE	TRAFFIC SIGNAL
				5	10	21
	NON-URBAN	NON-URBAN	NON-URBAN			
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	2,517	2,517		
28100107	STONE RIPRAP, CLASS A4	SQ YD	1,365		1,365	
28200200	FILTER FABRIC	SQ YD	1,365		1,365	
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	249	249		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	825	825		
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	146	146		
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	459	459		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,033	1,033		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,486	1,486		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	1	1		
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	82	82		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	37	37		
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	98	98		
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	164	164		
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	90	90		
44000100	PAVEMENT REMOVAL	SQ YD	442	442		

* INDICATES SPECIALTY ITEM
 S INDICATES CONSTRUCTION CODE 0042 TRAINEES

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 765aks
 12/17/2018 4:03:11 PM
 MODEL: default
 FILE NAME: I:\Crystal Lake\KANC\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_SQ.dgn



USER NAME = 765aks	DESIGNED - AKS	REVISED -
	DRAWN - CJC	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - DTH	REVISED -
PLOT DATE = 12/17/2018	DATE - 11-26-18	FILE - 160541SHT_SQ.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	4
CONTRACT NO. 61F45			ILLINOIS FED. AID PROJECT HHS(183)	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% LOCAL	80% FED 20% LOCAL	80% FED 20% LOCAL
				ROADWAY	BRIDGE	TRAFFIC SIGNAL
				5 NON-URBAN	10 NON-URBAN	21 NON-URBAN
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	1,952	1,952		
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	88	88		
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	845	845		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1	
50200100	STRUCTURE EXCAVATION	CU YD	261		261	
50200300	COFFERDAM EXCAVATION	CU YD	169		169	
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1		1	
50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1		1	
50300100	FLOOR DRAINS	EACH	16		16	
50300225	CONCRETE STRUCTURES	CU YD	192.1		192.1	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	334.6		334.6	
50300260	BRIDGE DECK GROOVING	SQ YD	745		745	
50300300	PROTECTIVE COAT	SQ YD	96		96	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	128.6		128.6	
50500505	STUD SHEAR CONNECTORS	EACH	252		252	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	149,040		149,040	

* INDICATES SPECIALTY ITEM
 S INDICATES CONSTRUCTION CODE 0042 TRAINEES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% LOCAL	80% FED 20% LOCAL	80% FED 20% LOCAL
				ROADWAY	BRIDGE	TRAFFIC SIGNAL
				5 NON-URBAN	10 NON-URBAN	21 NON-URBAN
50800515	BAR SPLICERS	EACH	676		676	
* 50900805	PEDESTRIAN RAILING	FOOT	6		6	
51201600	FURNISHING STEEL PILES HP12X53	FOOT	287		287	
51201800	FURNISHING STEEL PILES HP14X73	FOOT	416		416	
51202305	DRIVING PILES	FOOT	287		287	
51203600	TEST PILE STEEL HP12X53	EACH	2		2	
51204650	PILE SHOES	EACH	16		16	
51500100	NAME PLATES	EACH	1		1	
52200010	TEMPORARY SHEET PILING	SQ FT	1,814		1,814	
52200015	PERMANENT SHEET PILING	SQ FT	1,203		1,203	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	51		51	
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4		
60100945	PIPE DRAINS 12"	FOOT	100	100		
60240215	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	EACH	3	3		
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	1		
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	362.5	362.5		

* INDICATES SPECIALTY ITEM
 S INDICATES CONSTRUCTION CODE 0042 TRAINEES

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 765aks
 MODEL: Default
 FILE NAME: I:\Crystal Lake\KANC1\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_500.dgn



USER NAME = 765aks	DESIGNED - AKS	REVISED -
PLOT SCALE = 20,000' / in.	DRAWN - CIC	REVISED -
PLOT DATE = 12/17/2018	CHECKED - DTH	REVISED -
	DATE - 11-26-18	FILE - 160541SHT_500.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 526	SECTION 16-00115-02-BR	COUNTY KANE	TOTAL SHEETS 81	SHEET NO. 5
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HLS(183)				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% LOCAL	80% FED 20% LOCAL	80% FED 20% LOCAL
				ROADWAY	BRIDGE	TRAFFIC SIGNAL
				5	10	21
				NON-URBAN	NON-URBAN	NON-URBAN
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
s 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4		
	63200310	GUARDRAIL REMOVAL	FOOT	1,023	1,023	
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	7	7	
	67100100	MOBILIZATION	LSUM	1	1	
	70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	150	150	
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	876	876	
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	292	292	
	70300220	TEMPORARY PAVEMENT MARKING- LINE 4"	FOOT	4,380	4,380	
	70300240	TEMPORARY PAVEMENT MARKING- LINE 6"	FOOT	80	80	
	70300904	PAVEMENT MARKING TAPE, TYPE IV - LINE 4"	FOOT	17,520	17,520	
	70300924	PAVEMENT MARKING TAPE, TYPE IV - LINE 24"	FOOT	240	240	
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	787.5	787.5	
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	487.5	487.5	
	70600251	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	

* INDICATES SPECIALTY ITEM
s INDICATES CONSTRUCTION CODE 0042 TRAINEES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% LOCAL	80% FED 20% LOCAL	80% FED 20% LOCAL
				ROADWAY	BRIDGE	TRAFFIC SIGNAL
				5	10	21
				NON-URBAN	NON-URBAN	NON-URBAN
	70600352	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	3	3	
* 72000100	SIGN PANEL - TYPE 1	SQ FT	14	14		
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1	
* 72501000	TERMINAL MARKER-DIRECT APPLIED	EACH	4	4		
* 72900200	METAL POST - TYPE B	FOOT	15	15		
s 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4,380	4,380		
s 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	12	12		
s 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	12	12		
s 89000050	TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION	EACH	1		1	
* C2009410	SHRUB, SALIX DISCOLOR (PUSSY WILLOW), 3' HEIGHT, BALLED AND BURLAPPED	EACH	2	2		
	X0322508	PEDESTRIAN TRUSS SUPERSTRUCTURE	SQ FT	898	898	
	X0324079	EXISTING FIELD TILE REMOVAL	FOOT	20	20	
	X0327036	BIKE PATH REMOVAL	SQ YD	574	574	
	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	457	457	
	X2130010	EXPLORATION TRENCH, SPECIAL	FOOT	100	100	
* X2511630	EROSION CONTROL BLANKET (SPECIAL)	SQ YD	2,517	2,517		

* INDICATES SPECIALTY ITEM
s INDICATES CONSTRUCTION CODE 0042 TRAINEES

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
765aks
MODEL: Default
FILE NAME: I:\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets\PH2\160541SHT_500.dgn



USER NAME = 765aks	DESIGNED - AKS	REVISED -
PLOT SCALE = 20,0000' / in.	DRAWN - CJC	REVISED -
PLOT DATE = 12/17/2018	CHECKED - DTH	REVISED -
	DATE - 11-26-18	FILE - 160541SHT_500.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 526	SECTION 16-00115-02-BR	COUNTY KANE	TOTAL SHEETS 81	SHEET NO. 6
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HILS(183)				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% LOCAL	80% FED 20% LOCAL	80% FED 20% LOCAL
				ROADWAY	BRIDGE	TRAFFIC SIGNAL
				5	10	21
				NON-URBAN	NON-URBAN	NON-URBAN
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	80		80	
X6640200	TEMPORARY CHAIN LINK FENCE	FOOT	652	652		
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1	1		
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	8,824	8,824		
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	117	117		
Z0012102	CONCRETE BRIDGE DECK SCARIFICATION 3/8 INCH	SQ YD	766		766	
Z0012193	BRIDGE DECK THIN POLYMER OVERLAY 3/8"	SQ YD	766		766	
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1		
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	55	55		
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	180		180	
Z0062456	TEMPORARY PAVEMENT	SQ YD	26	26		
Z0065000	SETTING PILES IN ROCK	EACH	16		16	
* Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1			1
S Z0076600	TRAINEES	HOUR	500	500		
S Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500		

* INDICATES SPECIALTY ITEM
S INDICATES CONSTRUCTION CODE 0042 TRAINEES

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-001121 - EXPIRES 4/30/2019
 765aks 12/17/2018 4:03:38 PM
 MODEL: Default
 FILE NAME: I:\Crystal Lake\KANCAN\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_50Q.dgn



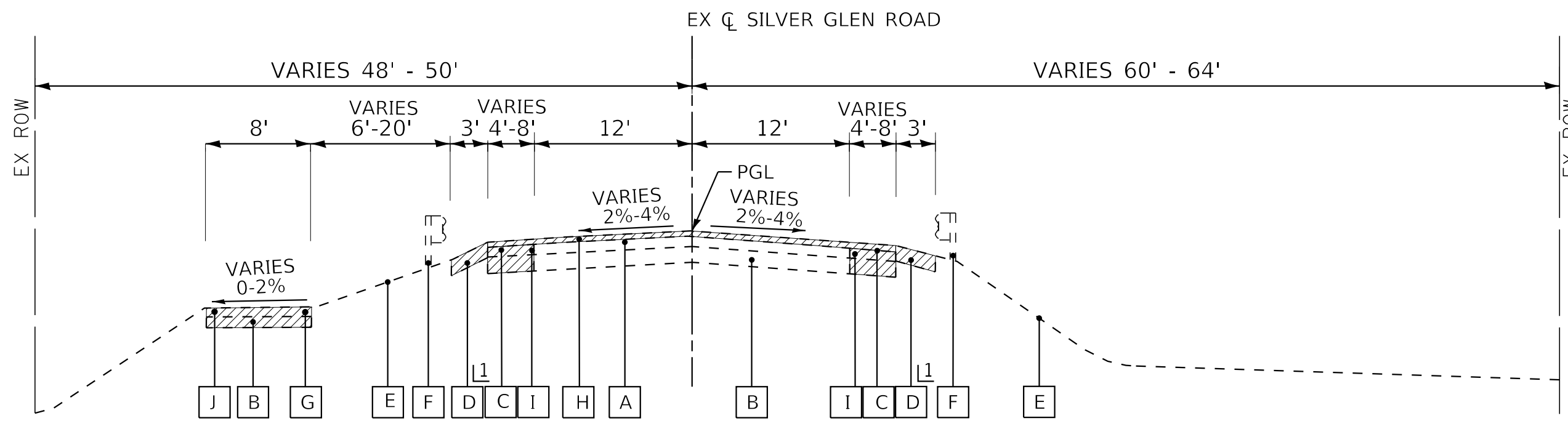
USER NAME = 765aks	DESIGNED - AKS	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - CJC	REVISED -
PLOT DATE = 12/17/2018	CHECKED - DTH	REVISED -
	DATE - 11-26-18	FILE - 160541SHT_50Q.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

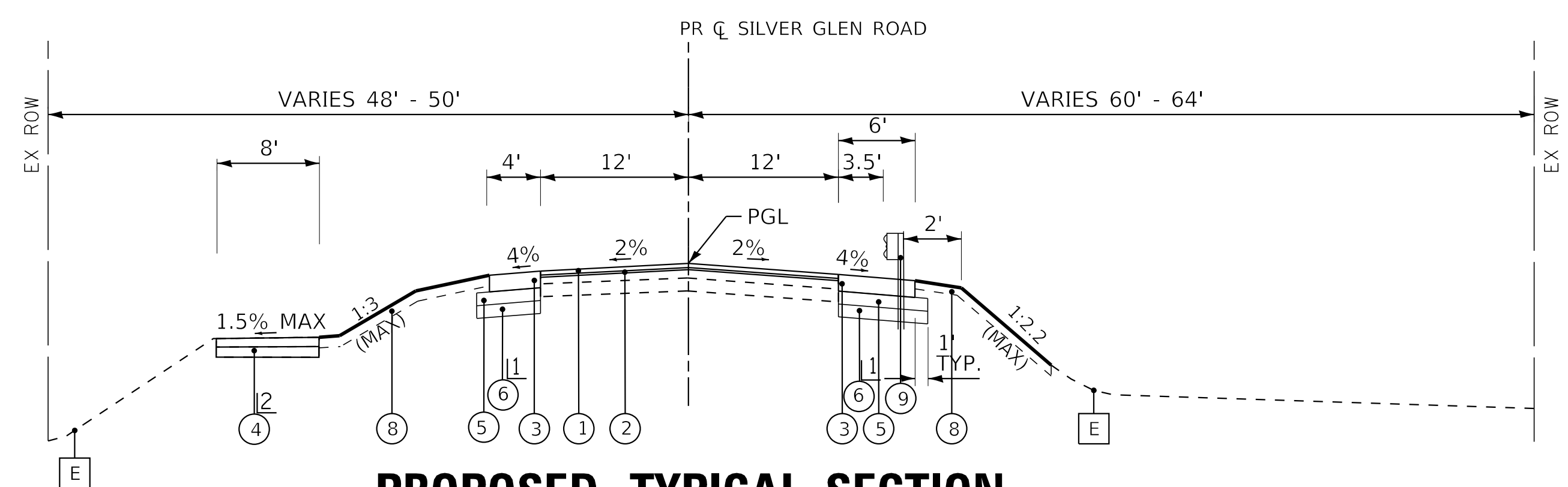
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	7
				CONTRACT NO. 61F45
ILLINOIS FED. AID PROJECT HILS(183)				



EXISTING TYPICAL SECTION

STA 46+50 TO STA 49+04
STA 50+96 TO STA 54+03

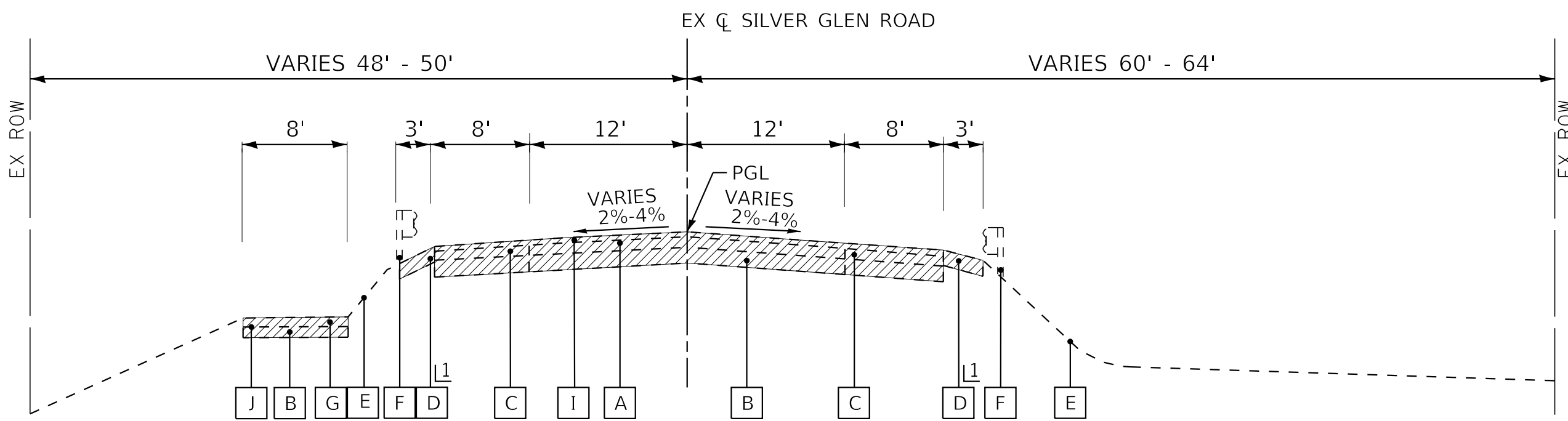
1 REMOVAL OF AGGREGATE SHOULDERS PAID FOR AS EARTH EXCAVATION



PROPOSED TYPICAL SECTION

STA 46+50 TO STA 48+32

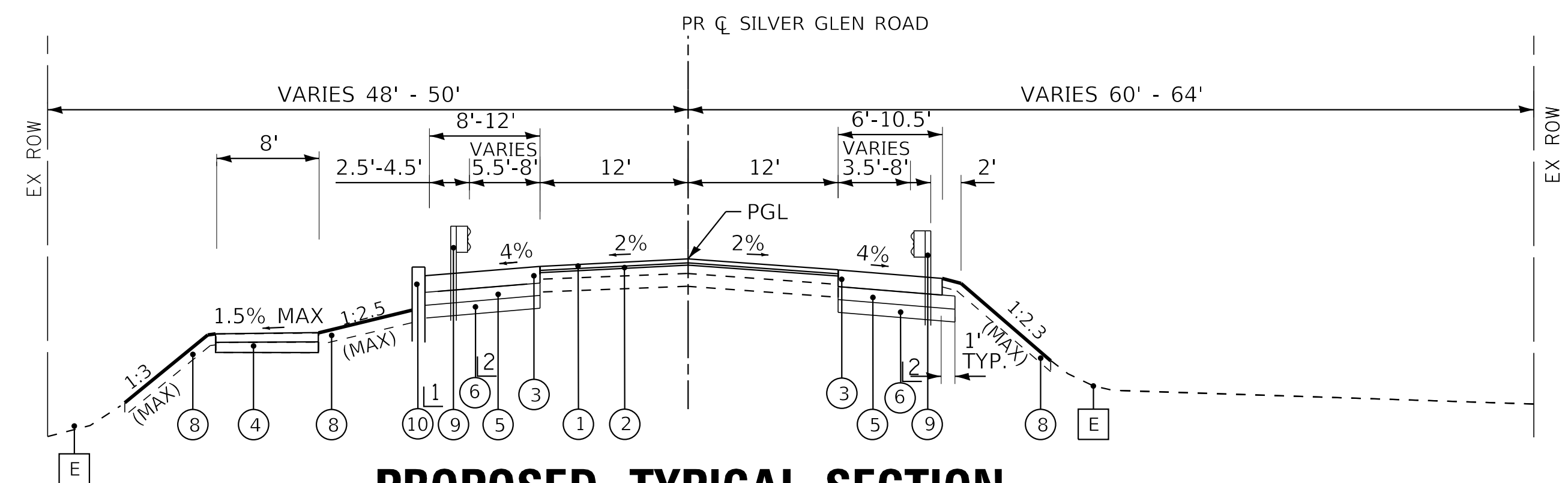
1 6" DEPTH WITH GEOTECHNICAL FABRIC FOR GROUND STABILIZATION.
2 46+25 TO 48+32



EXISTING TYPICAL SECTION

STA 49+04 TO STA 49+54
STA 50+46 TO STA 50+96
(EX BRIDGE OMISSION STA 49+54 TO STA 50+46)

1 REMOVAL OF AGGREGATE SHOULDERS PAID FOR AS EARTH EXCAVATION



PROPOSED TYPICAL SECTION

STA 48+32 TO STA 49+04
STA 50+96 TO STA 51+67
PR BRIDGE STA 49+04 TO STA 50+96 (SEE STRUCTURAL PLANS)

1 STA 50+57 TO STA 51+80
2 STA 48+32 TO STA 49+04 6" DEPTH WITH GEOTECHNICAL FABRIC FOR GROUND STABILIZATION.
STA 50+96 TO STA 51+67 12" DEPTH WITH GEOTECHNICAL FABRIC FOR GROUND STABILIZATION.

EXISTING LEGEND

- A HMA PAVEMENT (10")
- B AGGREGATE SUBBASE (ROAD 18", PATH 8")
- C HMA SHOULDER (6")
- D AGGREGATE SHOULDER
- E GROUND
- F GUARDRAIL REMOVAL
- G HMA PATH (3")
- H HMA SURFACE REMOVAL, 2 1/4"
- I PAVEMENT REMOVAL
- J BIKE PATH REMOVAL
- ITEM TO BE REMOVED

PROPOSED LEGEND

- 1 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70-1-1/2"
- 2 LEVELING BINDER (MACHINE METHOD), N70-3/4"
- 3 HOT-MIX ASPHALT SHOULDER, 8" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70-2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70-6"
- 4 HOT-MIX ASPHALT PATH HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50-3" AGGREGATE BASE COURSE, TYPE B, 8"
- 5 AGGREGATE SUBGRADE IMPROVEMENT- 12" (SQ YD)
- 6 AGGREGATE SUBGRADE IMPROVEMENT (CU YD)
- 7 AGGREGATE SHOULDER, TYPE B-6"
- 8 TOPSOIL EXCAVATION AND PLACEMENT 6" AND SEEDING (SEE LANDSCAPE PLANS)
- 9 STEEL PLATE BEAM GUARDRAIL, TYPE A 9 FOOT POSTS
- 10 SHEET PILE RETAINING WALL (SEE STRUCTURAL SHEET)

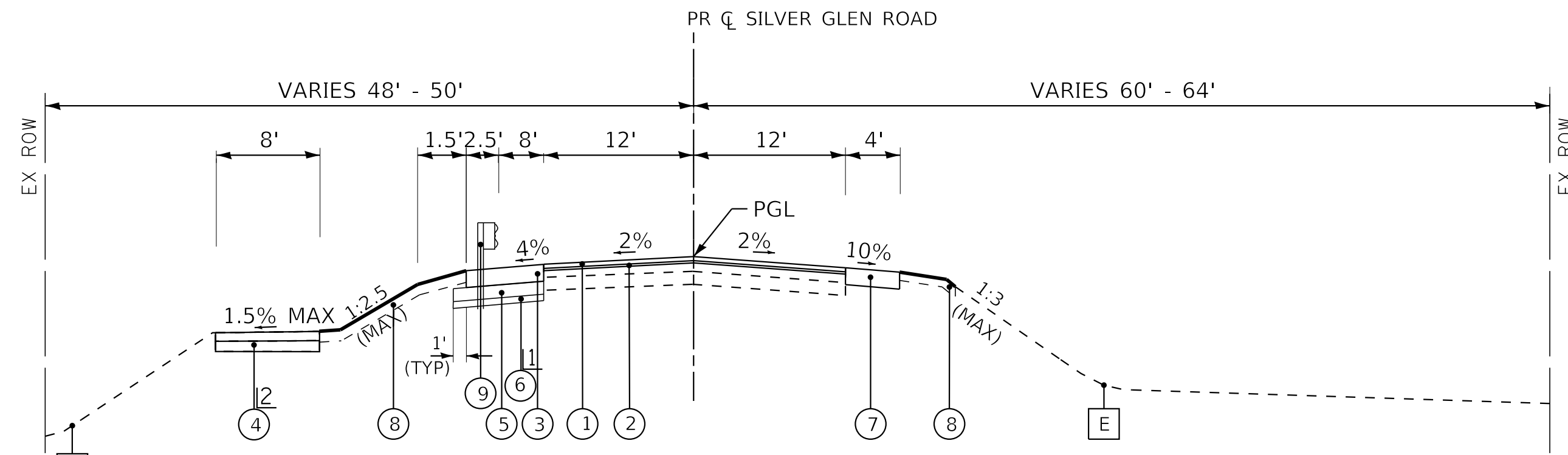
STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
765saks 12/17/2018 4:03:44 PM
FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541-SHT_TypSec.dgn



USER NAME = 765saks	DESIGNED - AKS	REVISED -
	DRAWN - CJC	REVISED -
PLOT SCALE = 9.0000' / in.	CHECKED - DTH	REVISED -
PLOT DATE = 12/17/2018	DATE - 11-26-18	FILE - 160541SHT_TypSec.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SILVER GLEN ROAD		526	16-00115-02-BR	KANE	81	8
SCALE: NONE		SHEET 1 OF 2 SHEETS		CONTRACT NO. 61F45		
STA. TO STA.		ILLINOIS FED. AID PROJECT HILS(183)				



PROPOSED TYPICAL SECTION

STA 51+67 TO STA 54+03

- L1 12" DEPTH WITH GEOTECHNICAL FABRIC FOR GROUND STABILIZATION.
- L2 51+67 TO 52+00

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
RESURFACING	
HMA SURFACE COURSE, MIX "D", N70 (IL 9.5mm): 1-1/2"	4% @70 GYR.
LEVELING BINDER (MACHINE METHOD), N70 (IL-9.5mm): 3/4"	4% @70 GYR.
HMA SHOULDERS (8")	
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: 6"	4% @70 GYR.
TEMPORARY PAVEMENT	
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70: 8"	4% @70 GYR.
HMA ASPHALT PATH	
HMA SURFACE COURSE, MIX "D", N50 (IL 9.5mm): 3"	4% @50 GYR.

- NOTES:
- THE UNIT WEIGHT USED TO CALCULATE ALL HMA MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
 - THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA. THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY THE DISTRICT ONE SPECIAL PROVISIONS.
 - FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.
 - CONTRACTOR HAS THE OPTION OF USING HMA OR PCC SECTION FOR TEMPORARY PAVEMENT. (SEE SPECIAL PROVISIONS).
 - PCC TEMPORARY PAVEMENT SHALL CONSIST OF CLASS PV CONCRETE MEETING THE REQUIREMENTS OF ART. 1020 OF THE STANDARD SPECIFICATIONS; PAVEMENT SHALL BE 8" THICK. TEMPORARY PCC PAVEMENT DOES NOT REQUIRE DOWEL BARS.

EXISTING LEGEND

- A HMA PAVEMENT (10")
- B AGGREGATE SUBBASE (ROAD 18", PATH 8")
- C HMA SHOULDER (6")
- D AGGREGATE SHOULDER
- E GROUND
- F GUARDRAIL REMOVAL
- G HMA PATH (3")
- H HMA SURFACE REMOVAL, 2 1/4"
- I PAVEMENT REMOVAL
- J BIKE PATH REMOVAL
- ITEM TO BE REMOVED

PROPOSED LEGEND

- 1 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70-1-1/2"
- 2 LEVELING BINDER (MACHINE METHOD), N70-3/4"
- 3 HOT-MIX ASPHALT SHOULDER, 8"
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70-2"
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70-6"
- 4 HOT-MIX ASPHALT PATH
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50-3"
AGGREGATE BASE COURSE, TYPE B, 8"
- 5 AGGREGATE SUBGRADE IMPROVEMENT- 12" (SQ YD)
- 6 AGGREGATE SUBGRADE IMPROVEMENT (CU YD)
- 7 AGGREGATE SHOULDER, TYPE B-6"
- 8 TOPSOIL EXCAVATION AND PLACEMENT 6"
AND SEEDING (SEE LANDSCAPE PLANS)
- 9 STEEL PLATE BEAM GUARDRAIL, TYPE A
9 FOOT POSTS
- 10 SHEET PILE RETAINING WALL (SEE STRUCTURAL SHEET)

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7658AKS 12/17/2018 4:03:45 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_TypSec.dgn



USER NAME = 7658aks	DESIGNED - AKS	REVISED -
	DRAWN - CJC	REVISED -
PLOT SCALE = 9.0000' / in.	CHECKED - DTH	REVISED -
PLOT DATE = 12/17/2018	DATE - 11-26-18	FILE - 160541SHT_TypSec.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**TYPICAL SECTIONS
SILVER GLEN ROAD**

SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	9
				CONTRACT NO. 61F45
ILLINOIS FED. AID PROJECT HILS(183)				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 765saks 12/17/2018 4:03:48 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen.dgn
 FILE PATH: I:\Crystal Lake\KANCHE\160541-Silver Glen.dgn
 ...:\p\cd\drv\pdf\BW_Default.plt
 ...:\CADD\TPO\160541_PEN.tbl
 I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_Schedule.dgn

EARTHWORK														
		1	2	3	4	5	6	7	8	9	10	11	12	13
LOCATION STA TO STA		TOPSOIL EXCAVATION (DEPTH 6") (CU YD)	TOPSOIL EXCAVATION FOR PLACEMENT (15% SHRINKAGE) (CU YD)	TOPSOIL PLACEMENT (DEPTH 6") (CU YD)	TOPSOIL BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	AGGREGATE SUBGRADE IMPROVEMENT (CU YD)	UNSUITABLE EXCAVATION (TOPSOIL) (CU YD)	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	EARTH EXCAVATION (CU YD)	CHANNEL EXCAVATION (CU YD)	TOTAL SUITABLE EXCAVATION (CU YD)	EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE) (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
SILVER GLEN ROAD		+463	+395	+444	(-49)	+249	+8	+256	+684	-	+684	+582	+763	(-181)
44+91.00	45+00.00	4.5	3.9	4.5	(-0.6)	-	-	-	-	-	-	-	-	-
45+00.00	45+50.00	24.2	20.7	24.1	(-3.4)	-	-	-	-	-	-	8.7	(-9)	-
45+50.00	46+00.00	21.8	18.6	21.3	(-2.7)	-	-	11.7	-	11.7	10.0	29.4	(-19)	-
46+00.00	46+50.00	21.1	18.0	22.1	(-4.1)	2.3	2.3	33.9	-	33.9	28.9	43.8	(-15)	-
46+50.00	47+00.00	40.2	34.2	43.7	(-9.5)	10.2	10.2	100.9	-	100.9	85.8	98.3	(-12)	-
47+00.00	47+50.00	35.7	30.4	38.4	(-8.0)	11.2	11.2	107.3	-	107.3	91.3	97.3	(-6)	-
47+50.00	47+91.00	26.8	22.9	28.8	(-5.9)	9.2	9.2	86.8	-	86.8	73.8	75.4	(-2)	-
47+91.00	48+00.00	5.4	4.7	5.9	(-1.2)	2.0	2.0	15.4	-	15.4	13.2	12.6	+1	-
48+00.00	48+50.00	31.2	26.5	32.6	(-6.1)	13.0	-	70.1	-	70.1	59.6	63.0	(-3)	-
48+50.00	49+00.00	32.8	28.0	29.8	(-1.8)	18.1	-	62.6	-	62.6	53.2	71.7	(-18)	-
49+00.00	49+14.00	9.1	7.8	7.6	+0.2	6.0	0.2	15.3	-	15.3	13.0	19.7	(-7)	-
BRIDGE														
50+86.00	51+00.00	8.8	7.6	7.9	(-0.3)	8.2	-	11.3	-	11.3	9.7	12.4	(-3)	-
51+00.00	51+25.00	16.5	14.0	11.9	+2.1	21.6	2.1	23.8	-	23.8	24.4	12.6	+12	-
51+25.00	51+50.00	16.5	14.1	9.9	+4.2	21.6	4.2	25.8	-	25.8	26.9	5.4	+22	-
51+50.00	52+00.00	20.7	17.7	17.2	+0.5	37.9	0.5	38.4	-	38.4	42.7	12.3	+30	-
52+00.00	52+06.00	2.3	2.0	3.0	(-1.0)	3.2	-	3.2	-	3.2	3.3	2.7	+1	-
52+06.00	52+50.00	18.4	15.7	19.5	(-3.8)	18.7	-	17.3	-	17.3	14.8	20.8	(-6)	-
52+50.00	53+00.00	33.0	28.1	30.1	(-2.0)	21.3	-	21.3	-	21.3	10.8	41.7	(-31)	-
53+00.00	53+50.00	45.9	39.1	41.0	(-1.9)	21.3	-	21.3	-	21.3	10.2	66.3	(-56)	-
53+50.00	53+55.00	4.7	4.0	4.1	(-0.1)	2.1	-	2.1	-	2.1	1.1	7.4	(-6)	-
53+55.00	54+00.00	40.1	34.1	37.3	(-3.2)	19.2	-	19.2	-	19.2	8.7	57.7	(-49)	-
54+00.00	54+03.00	2.5	2.2	2.5	(-0.3)	1.3	-	1.3	-	1.3	0.6	3.3	(-3)	-
OTTER CREEK		-	-	-	-	-	-	-	+1,130	445	1,130	960	25.5	+935
117+13.00	117+31.00	-	-	-	-	-	-	96.3	37.3	96.3	81.9	4.7	+77	-
117+31.00	117+42.00	-	-	-	-	-	-	120.9	46.8	120.9	102.9	6.1	+97	-
117+42.00	117+44.00	-	-	-	-	-	-	22.6	8.8	22.6	19.3	1.2	+18	-
117+44.00	117+88.00	-	-	-	-	-	-	555.3	219.0	555.3	472.0	13.4	+459	-
117+88.00	118+36.00	-	-	-	-	-	-	334.4	133.4	334.4	284.3	-	+284	-
TOTALS		463	395	444	-49	249	8	256	1,814	445	1,814	1,542	788	+754

- COLUMN 1 = TOPSOIL REMOVAL DEPTH 6"
- COLUMN 2 = [COLUMN 1] x 0.85
- COLUMN 3 = FROM CROSS SECTION END AREAS, DEPTH 6"
- COLUMN 4 = [COLUMN 2] - [COLUMN 3]
- COLUMN 5 = ASSUMED TO BE 1' DEPTH
- COLUMN 6 = [COLUMN 4] (IF COLUMN 4 > 0)
- COLUMN 7 = [COLUMN 5] + [COLUMN 6]
- COLUMN 8 = FROM CROSS SECTION END AREAS
- COLUMN 9 = EXCAVATION WITHIN CHANNEL OUTSIDE OF STRUCTURE
- COLUMN 10 = [COLUMN 8]
- COLUMN 11 = [COLUMN 10] x 0.85
- COLUMN 12 = FROM CROSS SECTION END AREAS
- COLUMN 13 = [COLUMN 11] - [COLUMN 12]

EARTHWORK PAY ITEM SUMMARY		TOTAL	
EARTH EXCAVATION	1,814	CU YD	
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	256	CU YD	
CHANNEL EXCAVATION	445	CU YD	
FURNISHED EXCAVATION	0	CU YD	
TOPSOIL EXCAVATION AND PLACEMENT	444	CU YD	
AGGREGATE SUBGRADE IMPROVEMENT	249	CU YD	



USER NAME = 765saks	DESIGNED - AKS	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - CJC	REVISED -
PLOT DATE = 12/17/2018	CHECKED - DTH	REVISED -
	DATE - 11-26-18	FILE - 160541SHT_Schedule.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EARTHWORK SCHEDULE

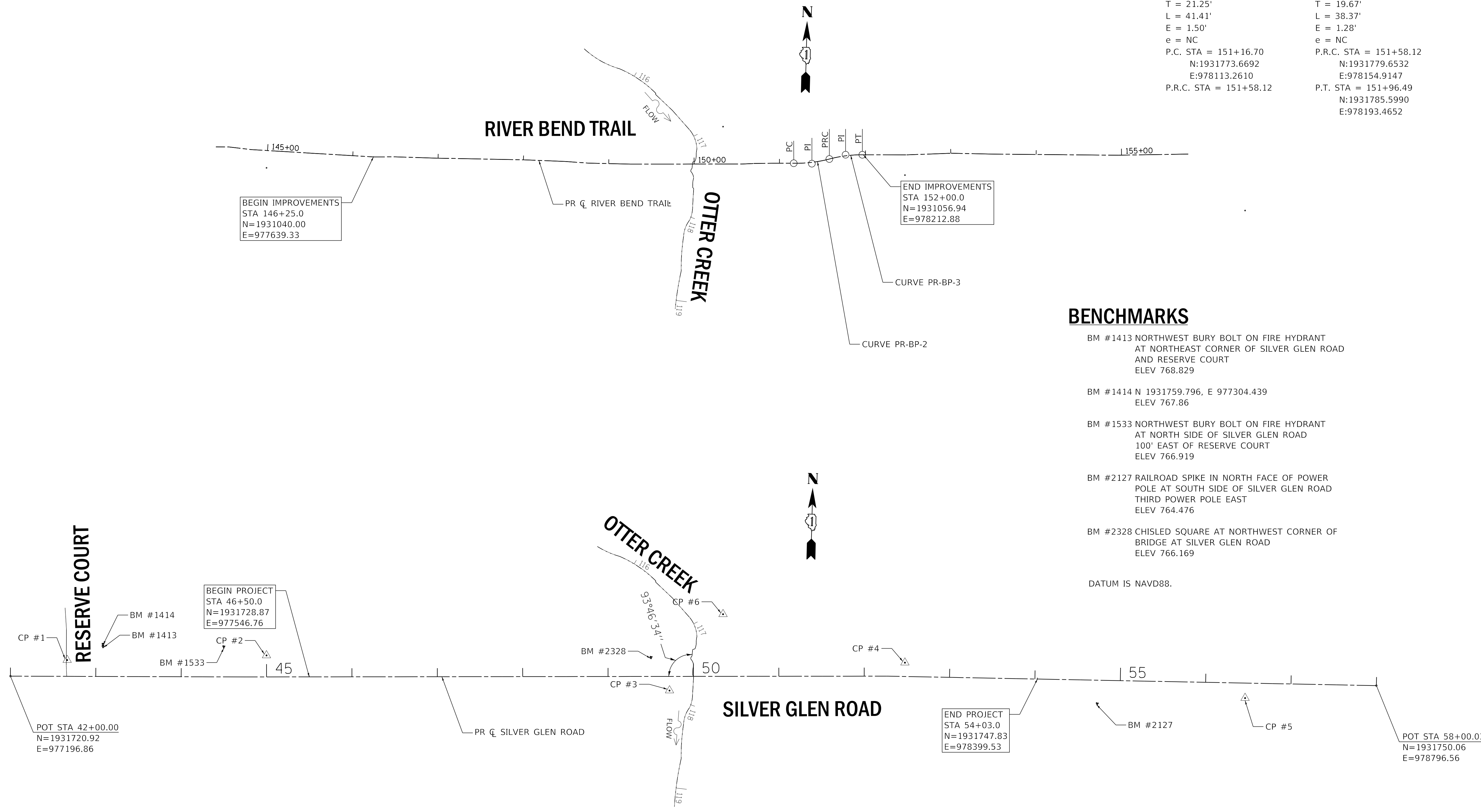
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	10
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HILS(183)				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7658AKS 12/17/2018 4:04:00 PM
 FILE NAME: I:\Crystal Lake\KANCHI\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_ATB.dgn
 FILE NAME: I:\Crystal Lake\KANCHI\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_ATB.dgn

PROP. CURVE PR-BP-2
 PI STA. = 151+37.96
 $\Delta = 16^\circ 07' 37''$ (LT)
 $D = 38^\circ 56' 33''$
 $R = 150.00'$
 $T = 21.25'$
 $L = 41.41'$
 $E = 1.50'$
 $e = NC$
 P.C. STA = 151+16.70
 $N:1931773.6692$
 $E:978113.2610$
 P.R.C. STA = 151+58.12

PROP. CURVE PR-BP-3
 PI STA. = 151+77.79
 $\Delta = 14^\circ 56' 30''$ (RT)
 $D = 38^\circ 56' 33''$
 $R = 150.00'$
 $T = 19.67'$
 $L = 38.37'$
 $E = 1.28'$
 $e = NC$
 P.R.C. STA = 151+58.12
 $N:1931779.6532$
 $E:978154.9147$
 P.T. STA = 151+96.49
 $N:1931785.5990$
 $E:978193.4652$



BENCHMARKS

- BM #1413 NORTHWEST BURY BOLT ON FIRE HYDRANT AT NORTHEAST CORNER OF SILVER GLEN ROAD AND RESERVE COURT ELEV 768.829
 - BM #1414 N 1931759.796, E 977304.439 ELEV 767.86
 - BM #1533 NORTHWEST BURY BOLT ON FIRE HYDRANT AT NORTH SIDE OF SILVER GLEN ROAD 100' EAST OF RESERVE COURT ELEV 766.919
 - BM #2127 RAILROAD SPIKE IN NORTH FACE OF POWER POLE AT SOUTH SIDE OF SILVER GLEN ROAD THIRD POWER POLE EAST ELEV 764.476
 - BM #2328 CHISLED SQUARE AT NORTHWEST CORNER OF BRIDGE AT SILVER GLEN ROAD ELEV 766.169
- DATUM IS NAVD88.



USER NAME = 765aks	DESIGNED - AKS	REVISED -
PLOT SCALE = 60.0000' / in.	DRAWN - CJC	REVISED -
PLOT DATE = 12/17/2018	CHECKED - DTH	REVISED -
	DATE - 11-26-18	FILE - 160541SHT_ATB.dgn

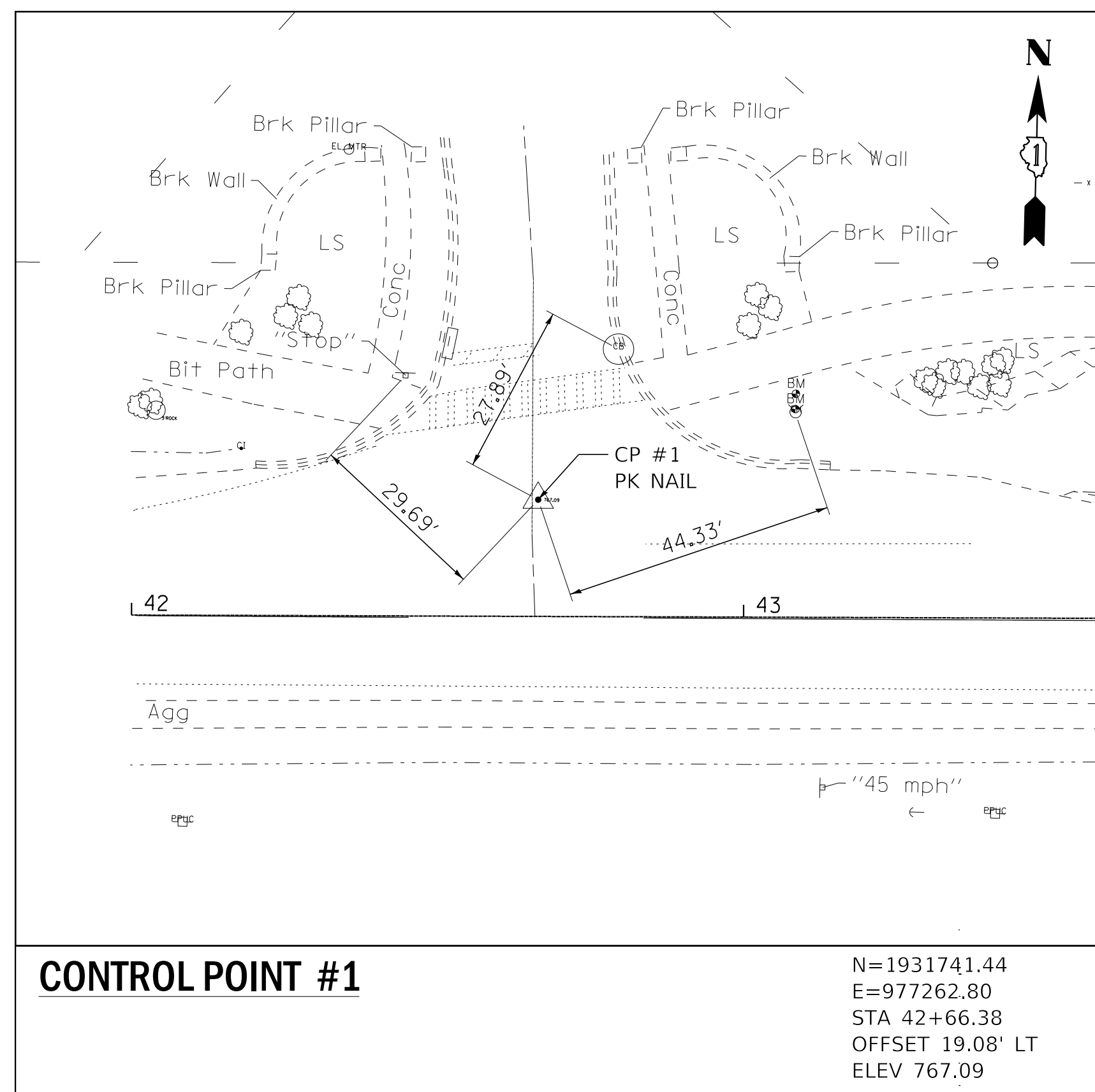
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES, AND BENCHMARKS

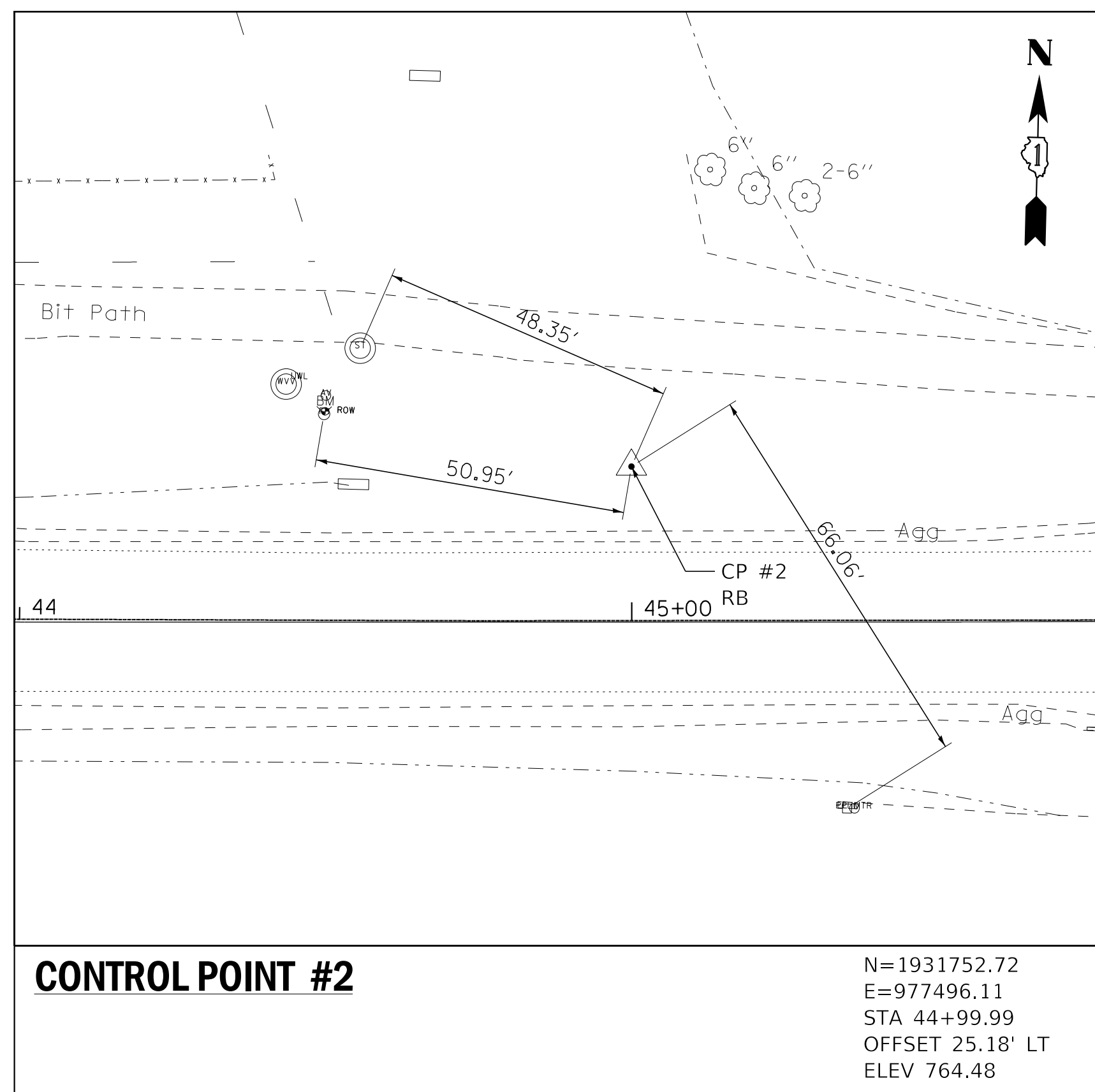
SCALE: 1" = 40' SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	11
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HILS(183)				

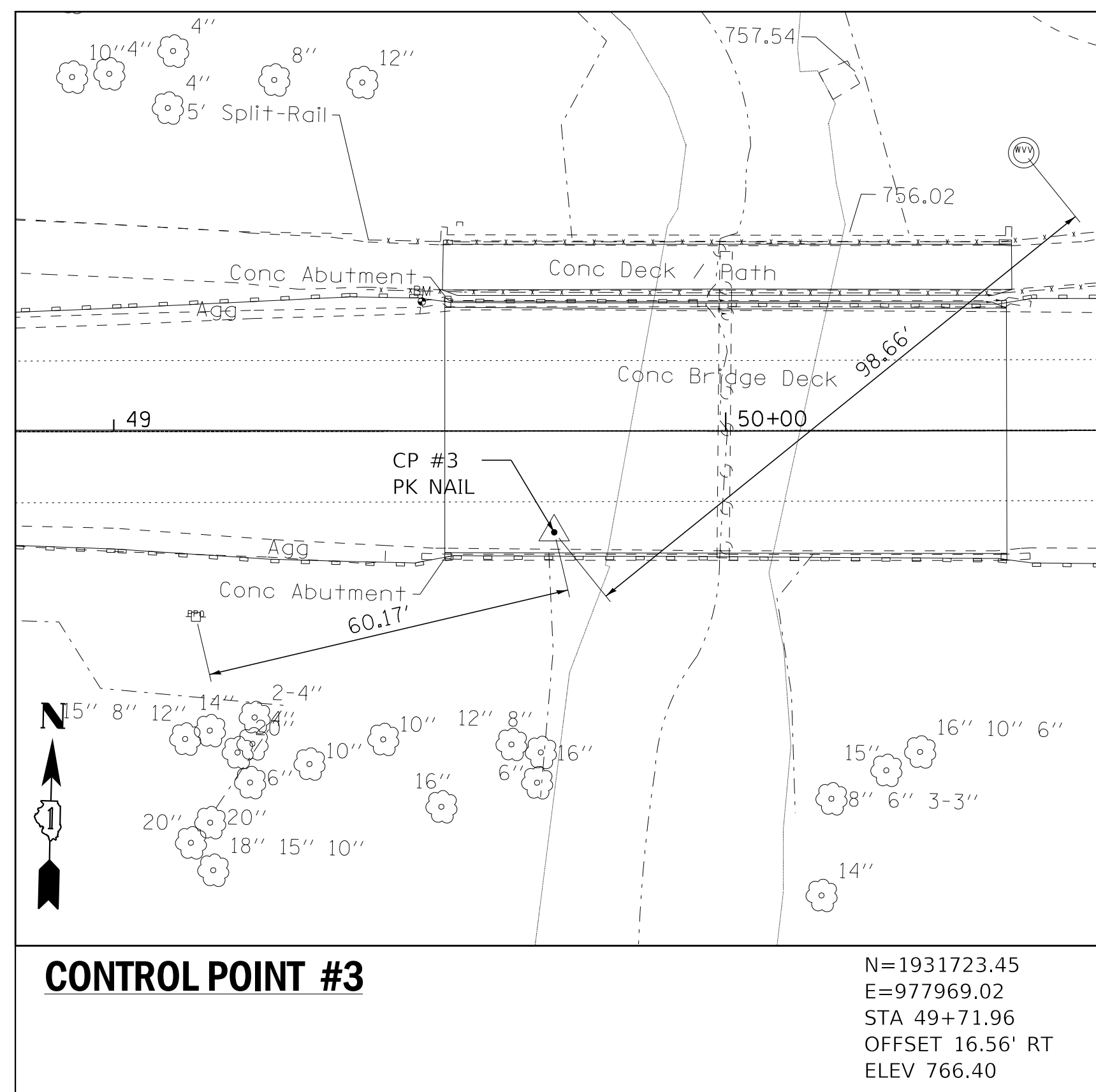
STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 765AKS 12/17/2018 4:04:03 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_ATB_CP.dgn



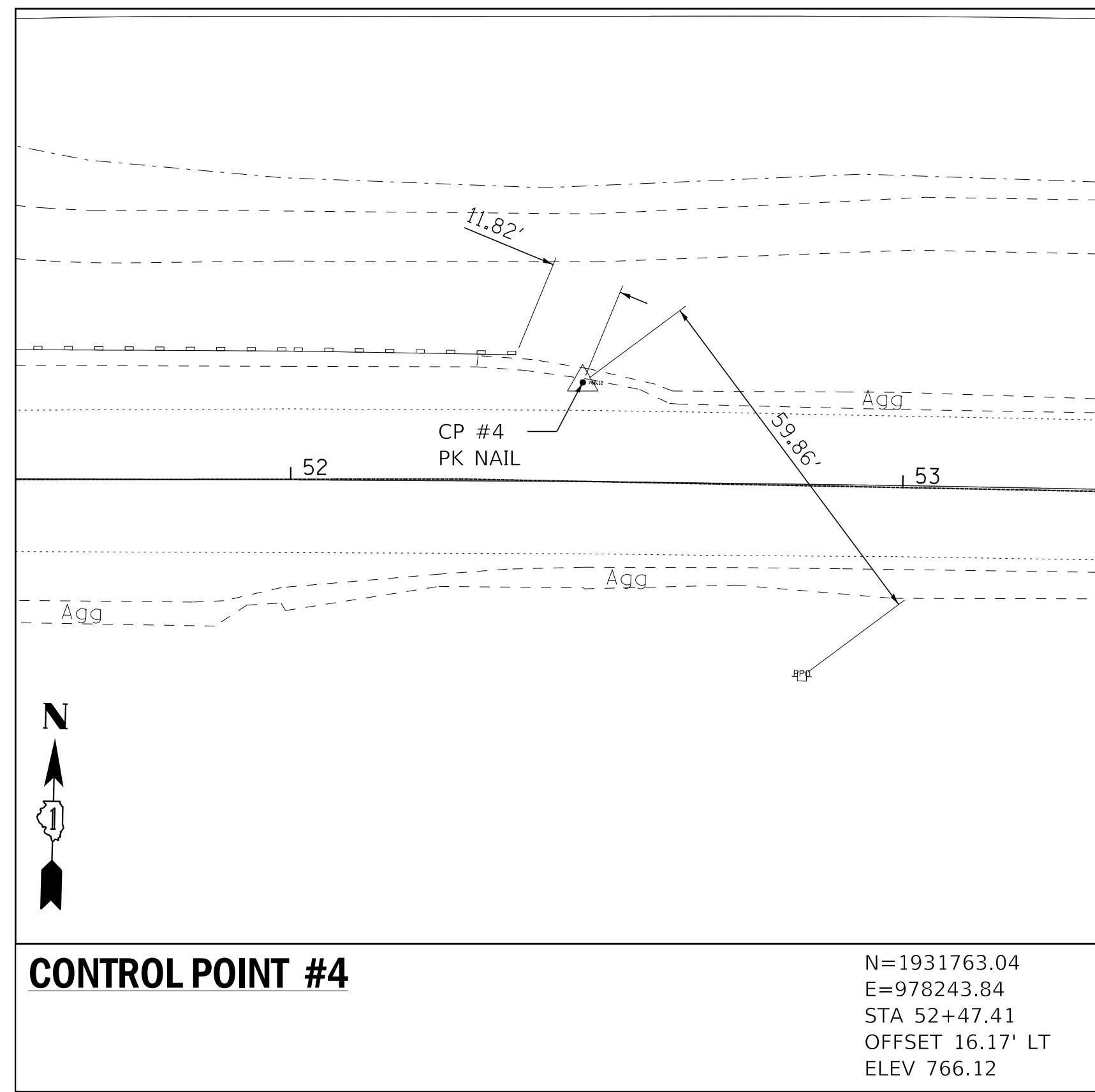
CONTROL POINT #1
 N=1931741.44
 E=977262.80
 STA 42+66.38
 OFFSET 19.08' LT
 ELEV 767.09



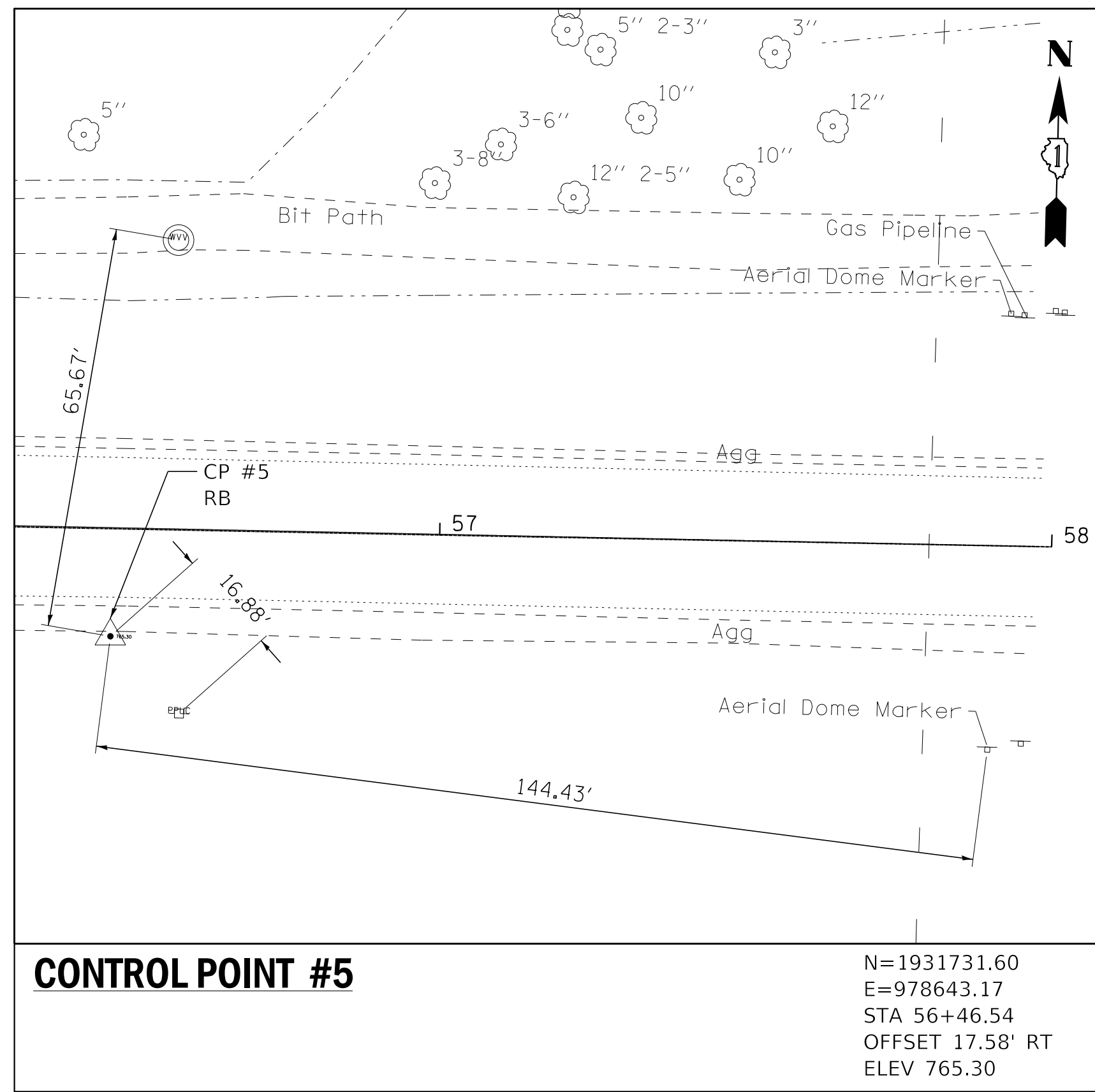
CONTROL POINT #2
 N=1931752.72
 E=977496.11
 STA 44+99.99
 OFFSET 25.18' LT
 ELEV 764.48



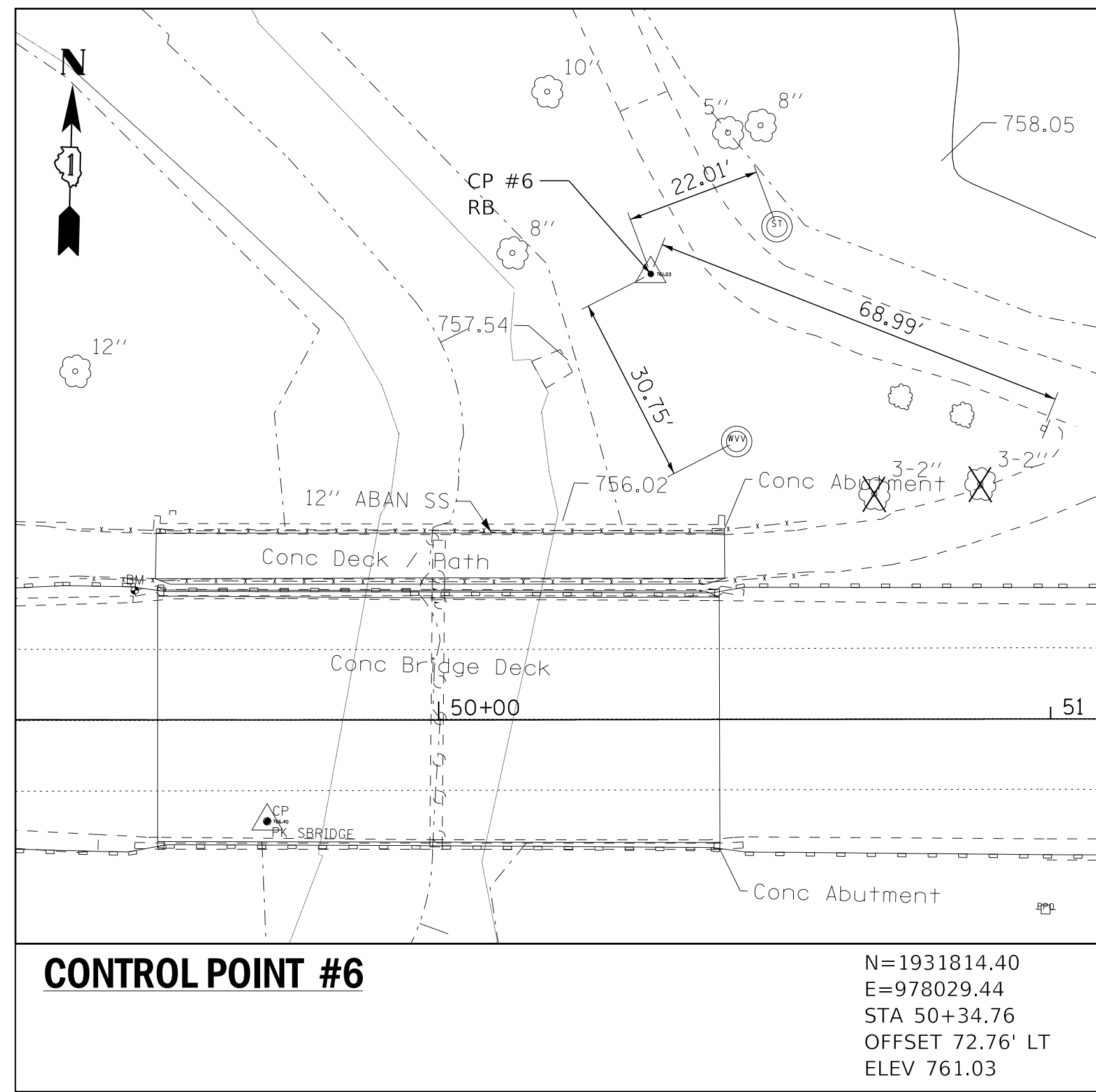
CONTROL POINT #3
 N=1931723.45
 E=977969.02
 STA 49+71.96
 OFFSET 16.56' RT
 ELEV 766.40



CONTROL POINT #4
 N=1931763.04
 E=978243.84
 STA 52+47.41
 OFFSET 16.17' LT
 ELEV 766.12



CONTROL POINT #5
 N=1931731.60
 E=978643.17
 STA 56+46.54
 OFFSET 17.58' RT
 ELEV 765.30



CONTROL POINT #6
 N=1931814.40
 E=978029.44
 STA 50+34.76
 OFFSET 72.76' LT
 ELEV 761.03



USER NAME = 765aks	DESIGNED - AKS	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - CJC	REVISED -
PLOT DATE = 12/17/2018	CHECKED - DTH	REVISED -
	DATE - 11-26-18	FILE - 160541SHT_ATB_CP.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

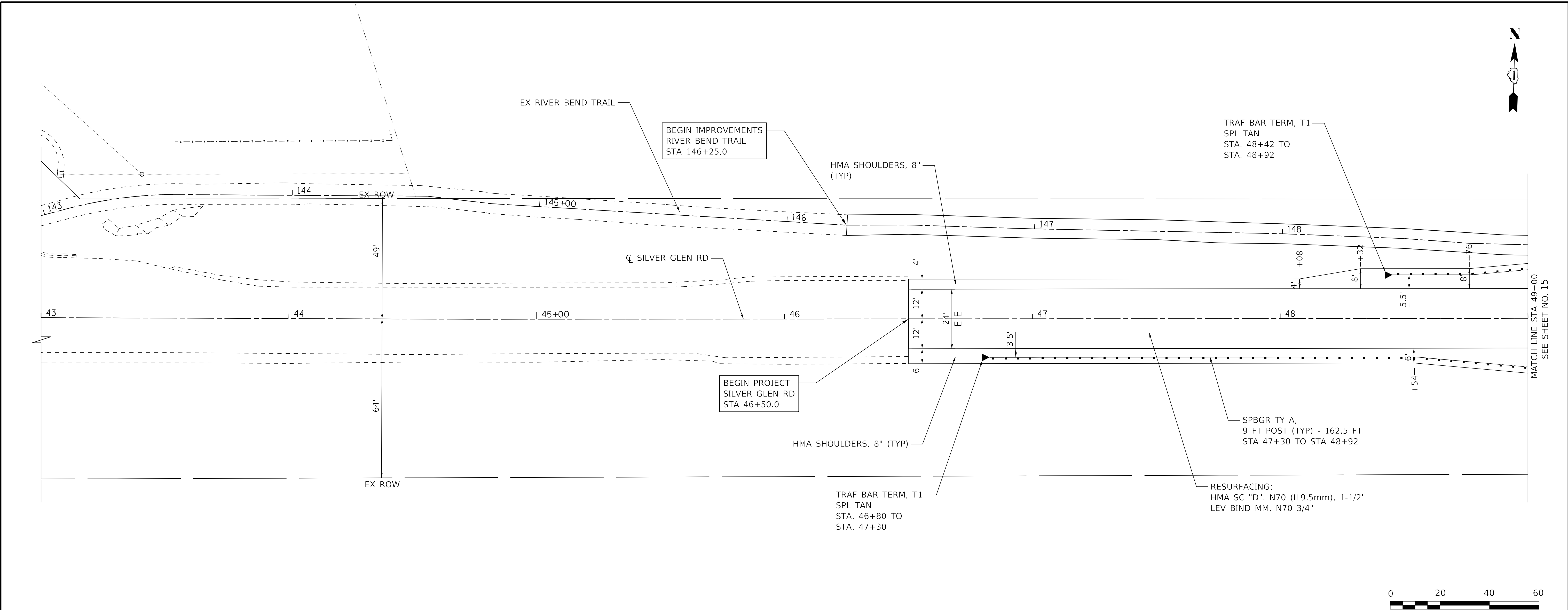
ALIGNMENT, TIES, AND BENCHMARKS
 SCALE: 1" = 20'
 SHEET 2 OF 2 SHEETS
 STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	12
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HILS(183)				

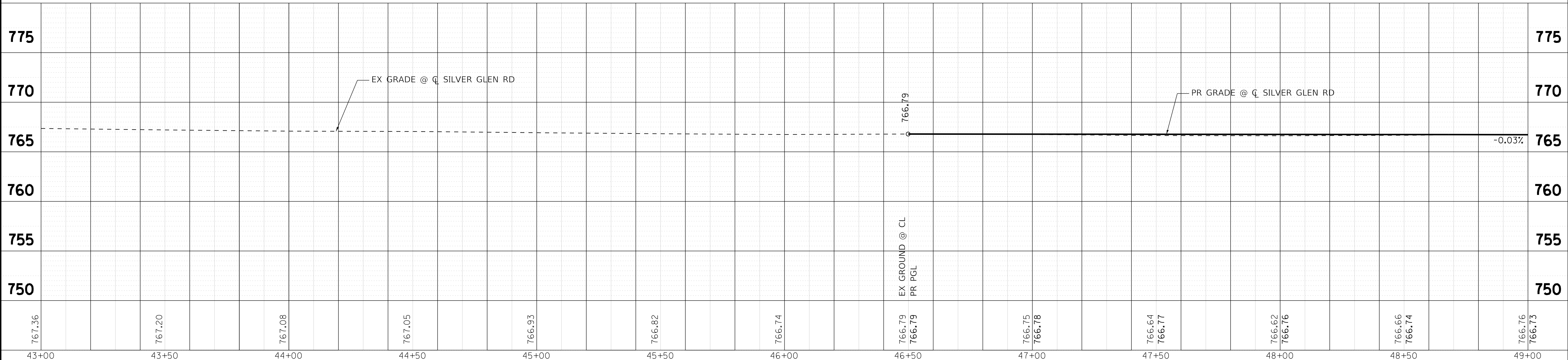
DATE	
BY	
SURVEYED	
ALIGNED	
CHECKED	
NOTE BOOK	
NO.	
CADD FILE NAME	

DATE	
BY	
SURVEYED	
GRADES CHECKED	
NOTE BOOK	
NO.	
CADD FILE NAME	

COPYRIGHT © 2018, BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 765saks 12/17/2018 4:04:09 PM
 MODEL: Default
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Other\CADD\Sheets-Ph2\160541SHT_PP1.dgn



SILVER GLEN ROAD



USER NAME = 765saks	DESIGNED - AKS	REVISED -
	DRAWN - CJC	REVISED -
PLOT SCALE = 20.0000" / in.	CHECKED - DTH	REVISED -
PLOT DATE = 12/17/2018	DATE - 11-26-18	FILE - 160541SHT_PP1.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PLAN & PROFILE
SILVER GLEN ROAD**

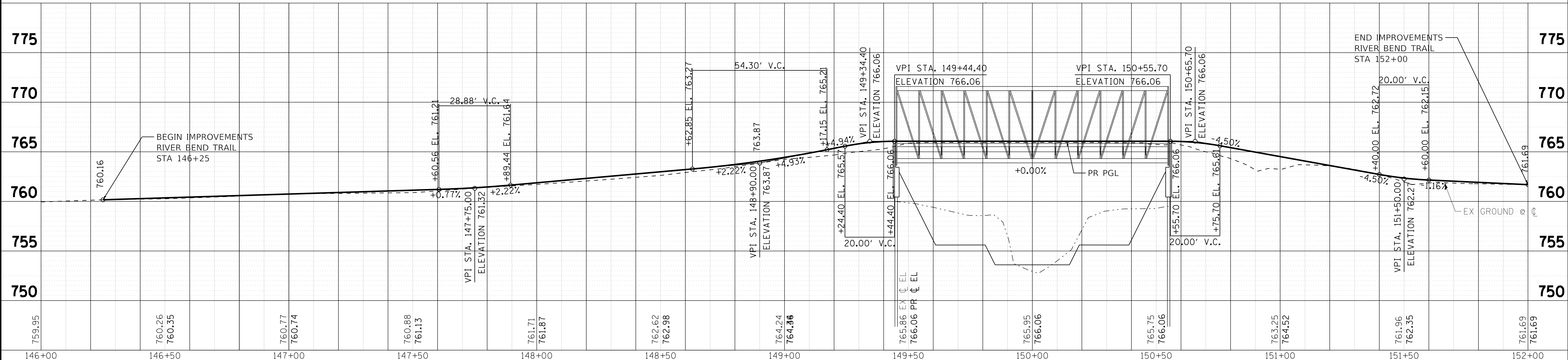
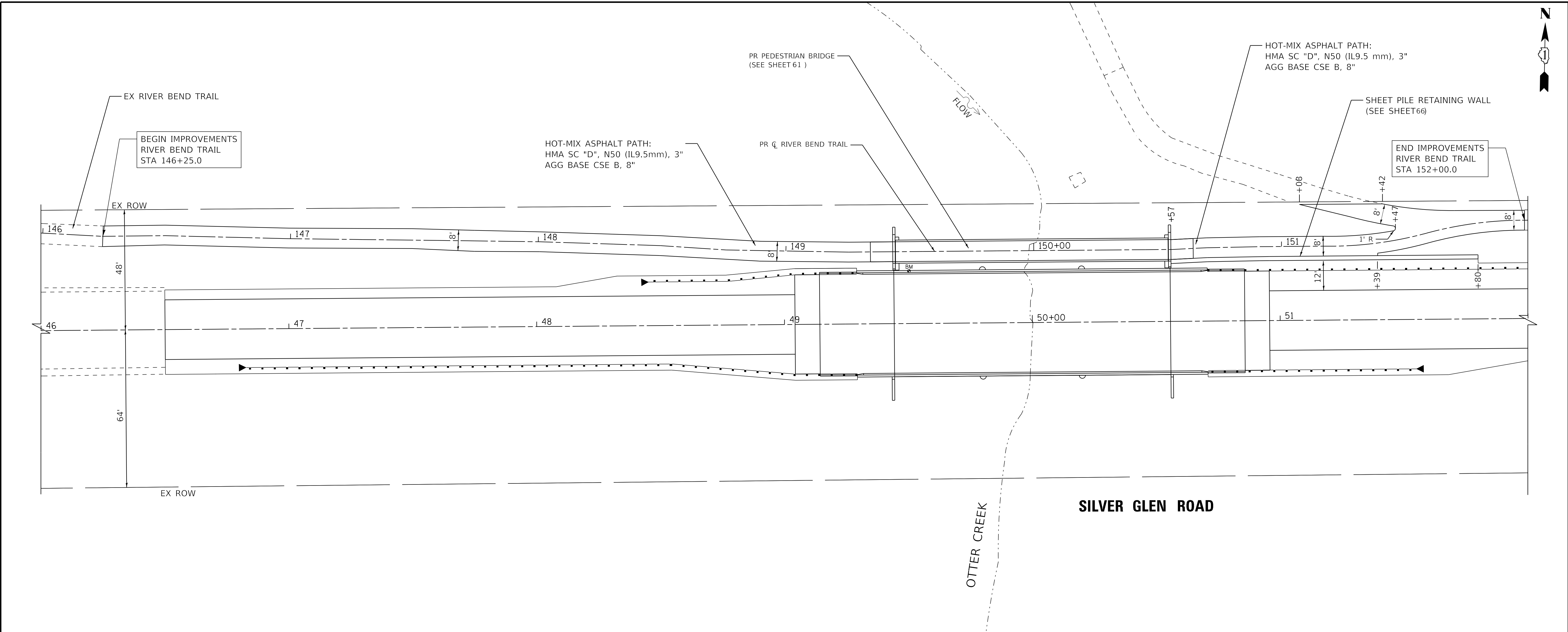
SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 43+00 TO STA. 49+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	14
				CONTRACT NO. 61F45
ILLINOIS FED. AID PROJECT HILS(183)				

DATE	
BY	
PLAN	
SURVEYED	
ALIGNED	
CHECKED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

COPYRIGHT © 2018, BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-001121 - EXPIRES 4/30/2019
 7653aks 12/17/2018 4:04:13 PM
 MODEL: Default
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter Creek\Drawings\160541SHT_PP3_BikePath.dgn



USER NAME = 765aks	DESIGNED - AKS	REVISED -
	DRAWN - CJC	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - DTH	REVISED -
PLOT DATE = 12/17/2018	DATE - 11-26-18	FILE - 160541SHT_PP3_BikePath.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 20'	
SHEET 1	OF 1 SHEETS
STA. 146+00	TO STA. 152+00

PLAN AND PROFILE
RIVER BEND TRAIL

F.A.P. RTE. 526	SECTION 16-00115-02-BR	COUNTY KANE	TOTAL SHEETS 81	SHEET NO. 16
CONTRACT NO. 61F45			ILLINOIS FED. AID PROJECT HILS(183)	

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT, ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE HIGHWAY STANDARDS AS SHOWN IN THE INDEX OF SHEETS AND THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL) UNLESS OTHERWISE INDICATED.
2. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING.
3. TEMPORARY CONCRETE BARRIER WALL AND IMPACT ATTENUATORS SHALL BE INSTALLED AS SHOWN ON PLANS AND/OR AS DETERMINED BY THE ENGINEER. THERE SHALL BE A MINIMUM CLEARANCE OF 1' BETWEEN TRAVEL LANE AND BASE OF TEMPORARY CONCRETE BARRIER. FURNISHING, INSTALLING, RELOCATING AND PINNING TEMPORARY CONCRETE BARRIER WALL AND IMPACT ATTENUATORS SHALL BE IN ACCORDANCE WITH IDOT SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, STANDARD SPECIFICATIONS, AND AS DETERMINED BY THE ENGINEER.
4. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS CONFLICTING WITH THE REVISED TRAFFIC PATTERNS. REMOVAL OF PAVEMENT MARKINGS ON EXISTING PAVEMENT TO REMAIN SHALL BE PAID FOR AS PAVEMENT MARKING REMOVAL- WATER BLASTING. THE REMOVAL OF PAVEMENT MARKINGS ON SURFACE TO BE REMOVED SHALL BE PAID FOR AS TEMPORARY PAVEMENT MARKING REMOVAL.
5. ON EXISTING PAVEMENT TO REMAIN AND FINAL WEARING SURFACE PAVEMENT MARKING TAPE, TYPE IV SHALL BE USED. THE REMOVAL OF THIS ITEM IS PAID FOR USING TEMPORARY PAVEMENT MARKING REMOVAL.
6. ALL PAVEMENT MARKING TAPE, TYPE IV SHOWING DETERIORATION AFTER 7 DAYS SHALL BE REPLACED BY THE CONTRACTOR AS DETERMINED BY THE ENGINEER. SUFFICIENT QUANTITIES HAVE BEEN PROVIDED FOR 2 APPLICATIONS OF PAVEMENT MARKING TAPE, TYPE IV FOR EACH STAGE.
7. TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON EXISTING PAVEMENT TO BE REMOVED.
8. SHORT TERM PAVEMENT MARKING SHALL BE USED AFTER STAGE 3B BEFORE FINAL PAVEMENT MARKINGS ARE APPLIED. THE REMOVAL OF THIS ITEM IS PAID FOR USING SHORT-TERM PAVEMENT MARKING REMOVAL.
9. THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL). ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DETERMINED BY THE ENGINEER. THIS SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
10. THE CLOSURE OF ONE THRU TRAFFIC LANE FOR ANY REASON SHALL BE RESTRICTED TO THE ALLOWABLE HOURS SPECIFIED IN THE DISTRICT 1 SPECIAL PROVISION KEEPING ARTERIAL ROADWAYS OPEN TO TRAFFIC.

SEQUENCE OF CONSTRUCTION

PRESTAGE 1

1. THE FOLLOWING SHALL BE PERFORMED USING STANDARD 701006 FOR OFF-ROAD OPERATIONS AND STANDARD 701301 AND 701306 FOR DAY TIME LANE CLOSURES AS NEEDED.
 - A. CONSTRUCT TEMPORARY PAVEMENT ON NORTH SIDE OF SILVER GLEN ROAD AS SHOWN IN THE PLANS.
2. INSTALL EROSION CONTROL DEVICES PER EROSION CONTROL.
3. ESTABLISH TRUCK DETOUR.

STAGE 1

4. INSTALL ONE-WAY TRAFFIC FLOW ON THE NORTH SIDE OF SILVER GLEN ROAD AND TEMPORARY SIGNAL ACCORDING TO HIGHWAY STANDARD 701321.
5. REVIEW TRAFFIC CONDITIONS AND ADJUST SIGNAL TIMING AS NECESSARY.
6. REMOVE THE SOUTHERN PORTION OF THE EXISTING PAVEMENT, AGGREGATE SHOULDER AND GUARDRAIL.
7. ERECT TEMPORARY SHEET PILING AT STAGE CONSTRUCTION LINE AS SHOWN IN THE PLANS.
8. REMOVE SOUTHERN PORTION OF EXISTING BRIDGE.
9. INSTALL COFFERDAMS.
10. CONSTRUCT NEW BRIDGE, PAVEMENT, AND SHOULDERS ON SOUTH SIDE OF SILVER GLEN ROAD.
11. INSTALL PROPOSED GUARDRAIL ON SOUTH SIDE OF SILVER GLEN ROAD AS SHOWN IN PLANS.
12. COMPLETE PERMANENT SEEDING AND LANDSCAPING ON SOUTH SIDE.

STAGE 2A

1. SHIFT TRAFFIC TO ONE-WAY TRAFFIC FLOW ON THE SOUTH SIDE OF SILVER GLEN ROAD WITH TEMPORARY TRAFFIC SIGNAL AS SHOWN IN THE PLANS.
2. BUILD TEMPORARY PATH RAMPS.
3. ESTABLISH PEDESTRIAN RUNAROUND SIGNAGE AND DEVICES.
4. REMOVE EXISTING PEDESTRIAN BRIDGE.
5. CONSTRUCT NEW PEDESTRIAN BRIDGE, PATH PAVEMENT, PERMANENT SHEET PILE RETAINING WALL, AND GRADING ON NORTH SIDE OF SILVER GLEN ROAD.
6. SHIFT PEDESTRIANS ONTO THE COMPLETED PEDESTRIAN BRIDGE.

STAGE 2B

1. MAINTAIN ONE-WAY TRAFFIC FLOW ON THE SOUTH SIDE OF SILVER GLEN ROAD WITH TEMPORARY TRAFFIC SIGNAL AS SHOWN IN THE PLANS.
2. REMOVE THE NORTHERN PORTION OF THE EXISTING PAVEMENT, AGGREGATE SHOULDER AND GUARDRAIL.
3. ADJUST TEMPORARY SHEET PILING AS NEEDED.
4. REMOVE NORTHERN PORTION OF EXISTING BRIDGE.
5. ADJUST COFFERDAMS AS NEEDED.
6. CONSTRUCT NEW BRIDGE, PAVEMENT, GUARDRAIL, AND SHOULDERS WITHIN BRIDGE RECONSTRUCTION LIMITS.
7. COMPLETE PERMANENT SEEDING AND LANDSCAPING ON NORTH SIDE.

STAGE 3A

1. MAINTAIN ONE-WAY TRAFFIC FLOW ON THE NORTH SIDE OF SILVER GLEN ROAD WITH TEMPORARY TRAFFIC SIGNAL AS SHOWN IN THE PLANS.
2. THIN POLYMER OVERLAY PROPOSED ON SOUTH SIDE OF BRIDGE DECK.

STAGE 3B

1. MAINTAIN ONE-WAY TRAFFIC FLOW ON THE SOUTH SIDE OF SILVER GLEN ROAD WITH TEMPORARY TRAFFIC SIGNAL AS SHOWN IN THE PLANS.
2. THIN POLYMER OVERLAY PROPOSED ON NORTH SIDE OF BRIDGE DECK.
3. APPLY PERMANENT PAVEMENT MARKINGS PAINT AND POLYUREA TYPE I.
4. REMOVE TEMPORARY EROSION CONTROL DEVICES.
5. OPEN ROADWAY TO TWO-WAY, TWO LANE TRAFFIC FLOW AS SHOWN ON THE PLANS.
6. REMOVE TRUCK DETOUR.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7658KS 12/17/2018 4:04:15 PM
 FILE NAME: I:\Crystal Lake\KANCHI\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_MOT-Notes.dgn
 FILE PATH: I:\Crystal Lake\KANCHI\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_MOT-Notes.dgn
 ...:\plcdrv\pdf\BW_Default.plt
 ...:\CADD\Plots\160541_PEN.plt
 I:\Crystal Lake\KANCHI\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_MOT-Notes.dgn



USER NAME = 7658ks	DESIGNED - AKS	REVISED -
	DRAWN - CJC	REVISED -
PLOT SCALE = 5.0000' / 1 in.	CHECKED - DTH	REVISED -
PLOT DATE = 12/17/2018	DATE - 11-26-18	FILE - 160541SHT_MOT-Notes.dgn

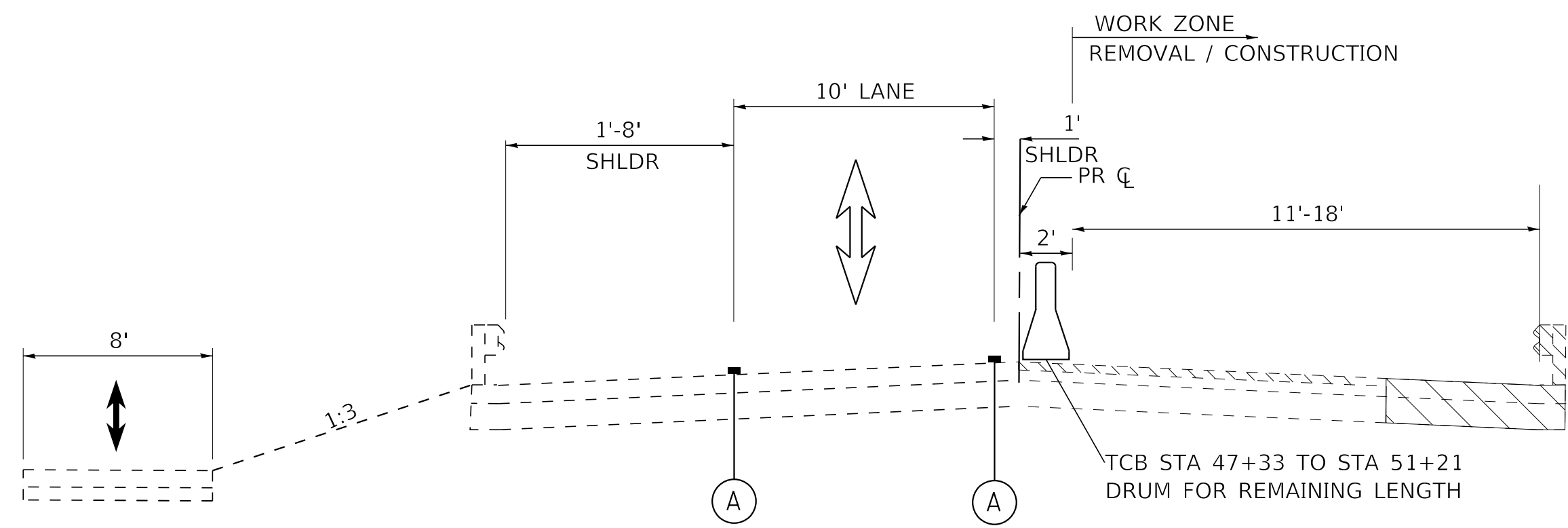
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**MAINTENANCE OF TRAFFIC GENERAL NOTES,
SEQUENCE OF CONSTRUCTION AND SIGNAGE**

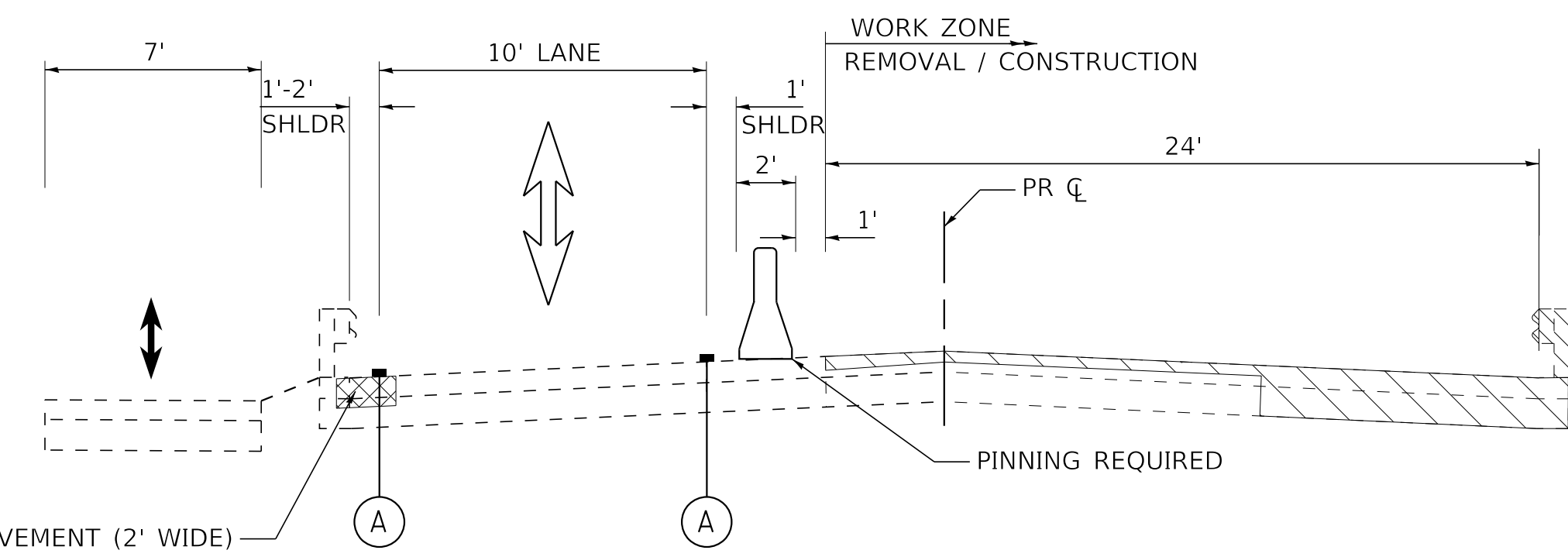
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	17
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HILS(183)				

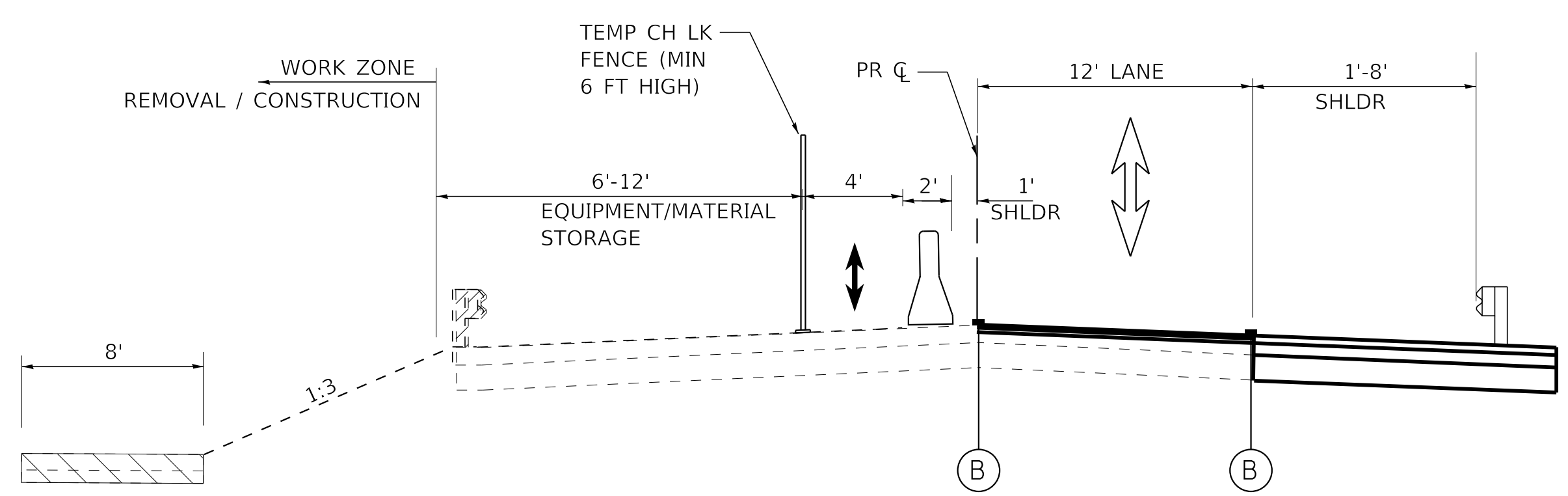
STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7658AKS 12/17/2018 4:04:27 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_MOT-TypSec.dgn
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_MOT-TypSec.dgn



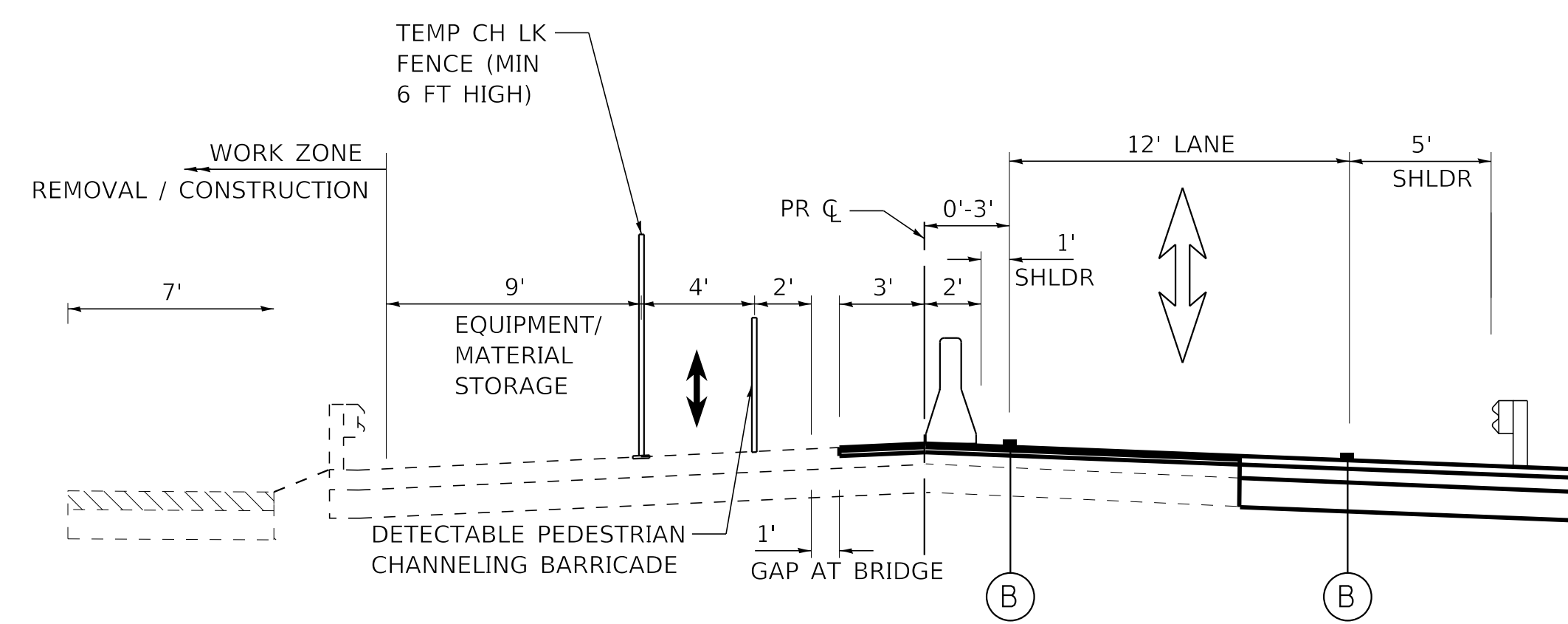
TYPICAL SECTION - STAGE 1
 STA 43+60 TO STA 47+83,
 STA 52+43 TO STA 54+55



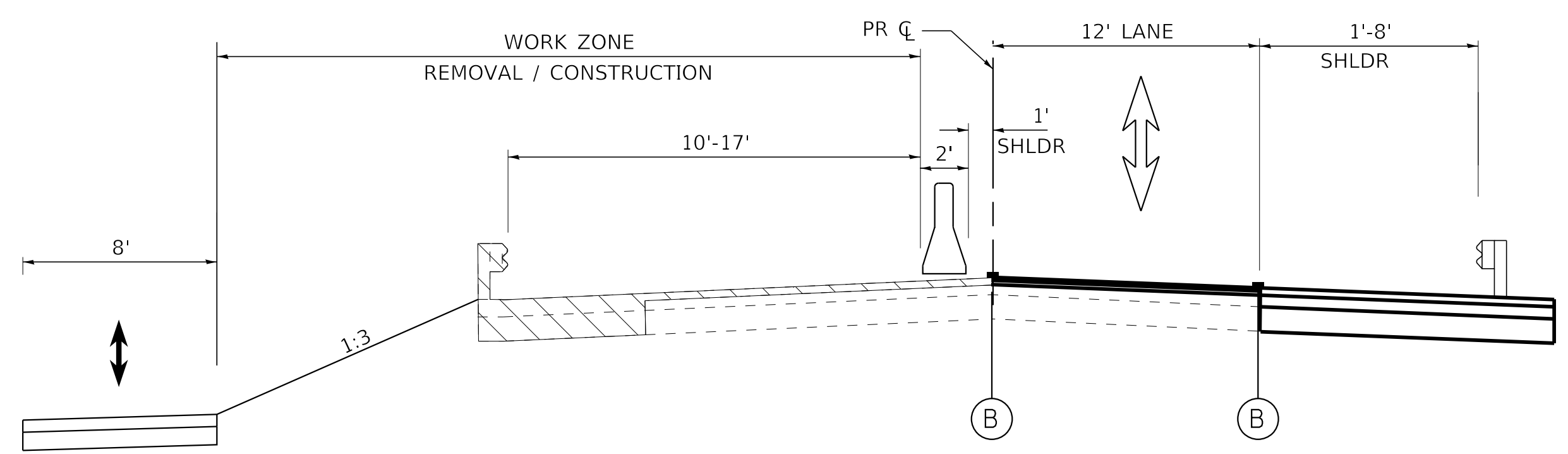
TYPICAL SECTION - STAGE 1
 STA 47+83 TO STA 52+43
 (BRIDGE OMISSION STA 49+04 TO STA 50+96)



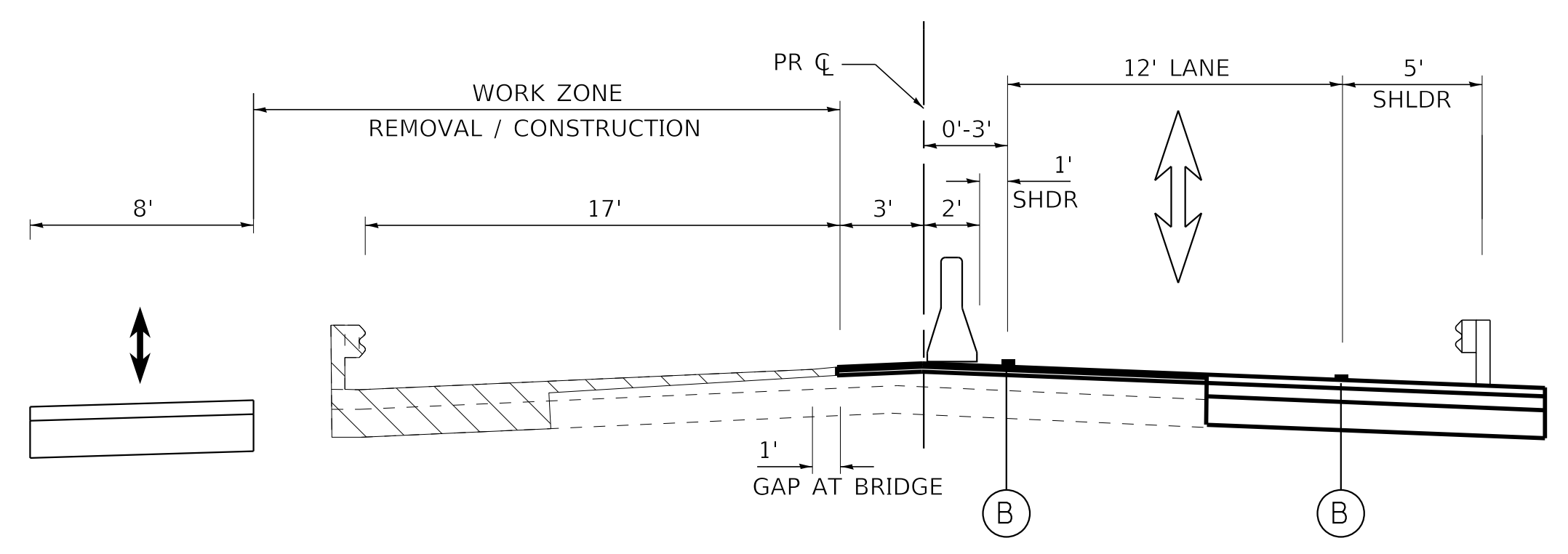
TYPICAL SECTION - STAGE 2A
 STA 43+60 TO STA 48+43,
 STA 51+57 TO STA 54+55



TYPICAL SECTION - STAGE 2A
 STA 48+43 TO STA 51+57
 (BRIDGE OMISSION STA 49+04 TO STA 50+96)



TYPICAL SECTION - STAGE 2B
 STA 43+60 TO STA 48+43,
 STA 51+57 TO STA 54+55



TYPICAL SECTION - STAGE 2B
 STA 48+43 TO STA 51+57
 (BRIDGE OMISSION STA 49+04 TO STA 50+96)

- LEGEND**
- DIRECTION OF TRAFFIC
 - DIRECTION OF TRAFFIC- PEDESTRIANS
 - REMOVAL
 - TEMPORARY PAVEMENT
 - TEMPORARY CONCRETE BARRIER WALL
 - DRUMS OR TYPE II BARRICADES WITH STEADY BURN, BI-DIRECTIONAL LIGHT AT 50' C-C SPACING ON TANGENT AND 25' C-C IN TAPERS AND RADII, AND 25' C-C ON TANGENT OVER BRIDGE
 - TEMPORARY PAVEMENT MARKING LINE 4" (WHITE)
 - PAVEMENT MARKING TAPE, TYPE IV - LINE 4" (WHITE)



USER NAME = 765aks	DESIGNED - AKS	REVISED -
PLOT SCALE = 5.0000' / in.	DRAWN - CJC	REVISED -
PLOT DATE = 12/17/2018	CHECKED - DTH	REVISED -
	DATE - 11-26-18	FILE - 160541SHT_MOT-TypSec.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

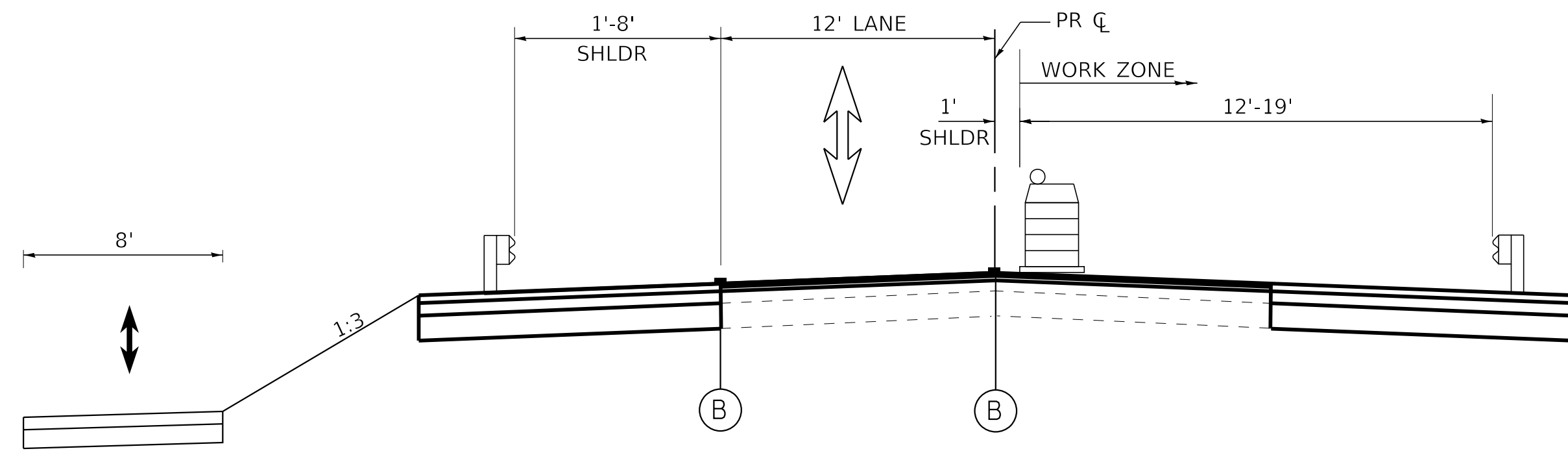
SUGGESTED MAINTENANCE OF TRAFFIC PLAN

TYPICAL SECTIONS

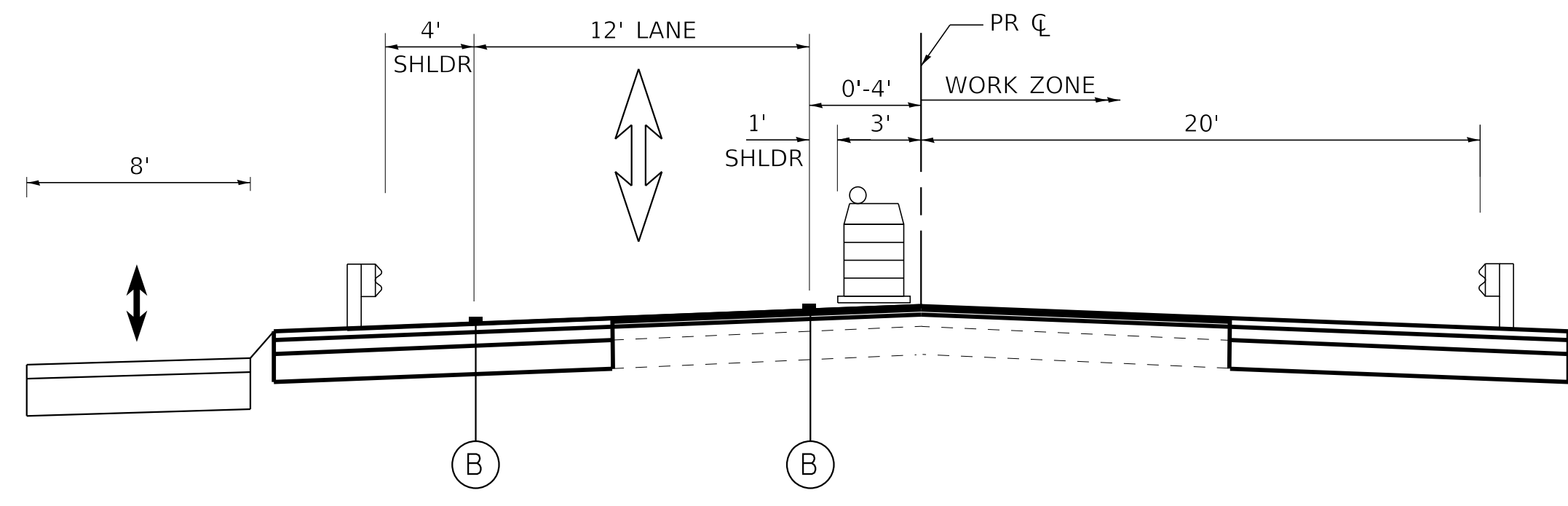
SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	18
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HILS(183)				

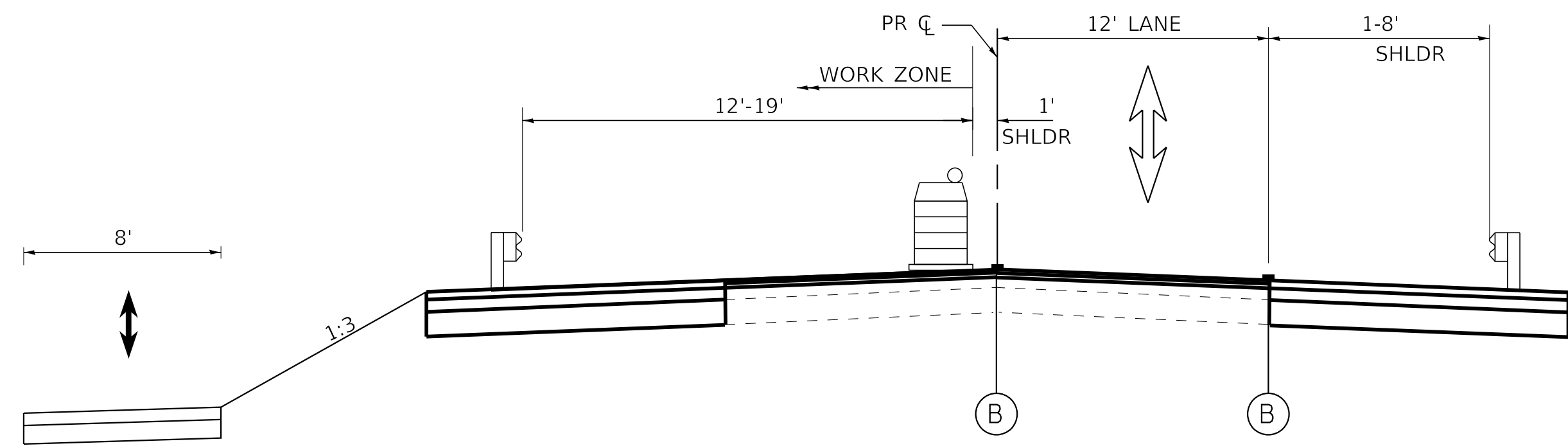
STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7658AKS 12/17/2018 4:04:28 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_MOT-TypSec.dgn
 FILE PATH: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_MOT-TypSec.dgn



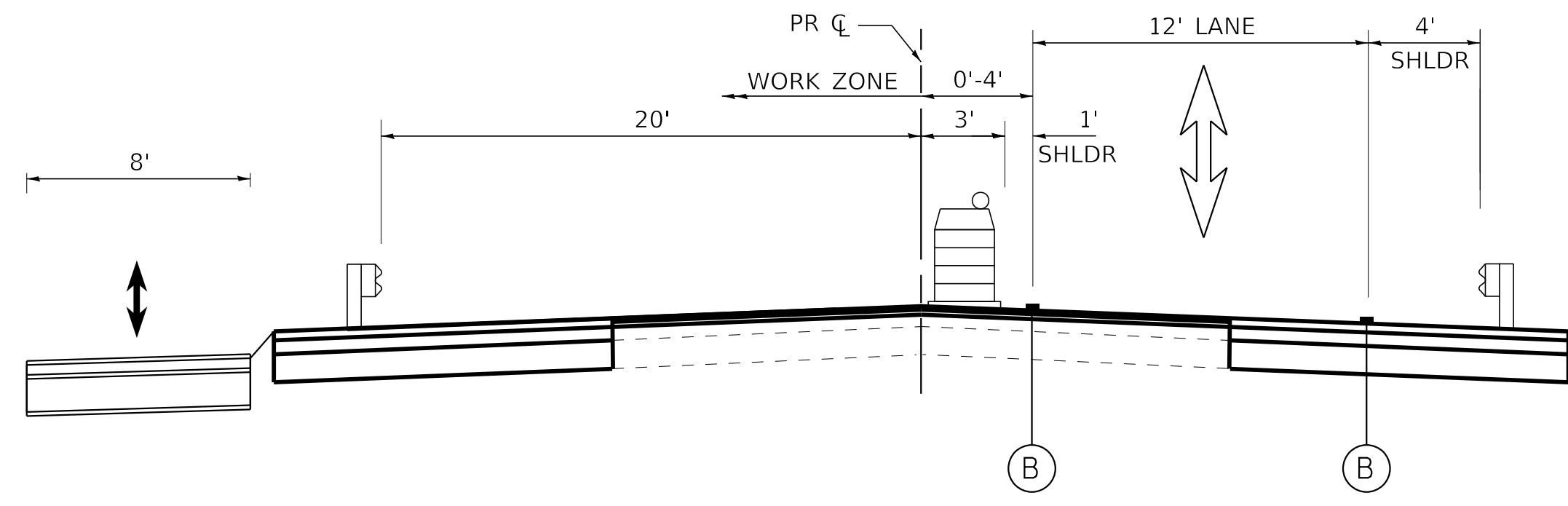
TYPICAL SECTION - STAGE 3A
 STA 43+60 TO STA 48+31,
 STA 51+69 TO STA 54+55



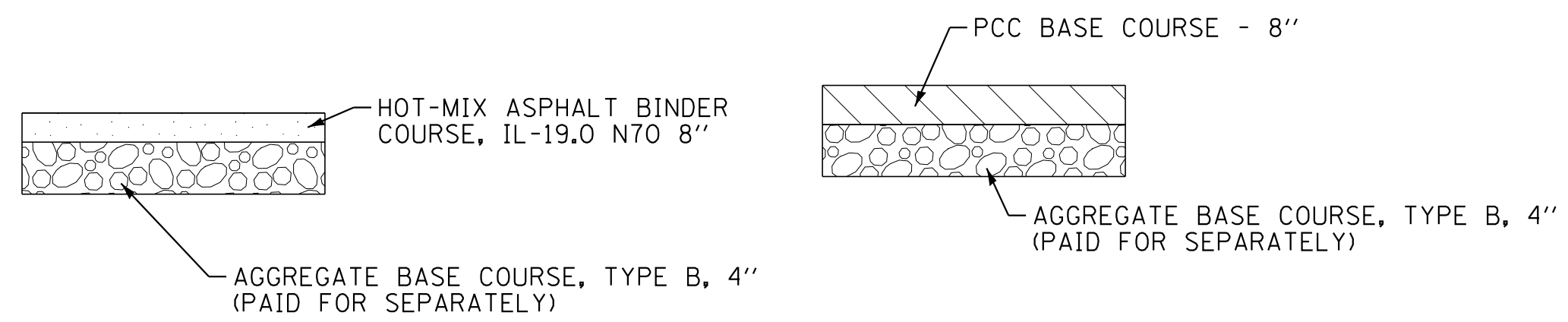
TYPICAL SECTION - STAGE 3A
 STA 48+31 TO STA 51+69
 (BRIDGE OMISSION STA 49+04 TO STA 50+96)



TYPICAL SECTION - STAGE 3B
 STA 43+60 TO STA 48+31,
 STA 51+69 TO STA 54+55



TYPICAL SECTION - STAGE 3B
 STA 48+31 TO STA 51+69
 (BRIDGE OMISSION STA 49+04 TO STA 50+96)



TEMPORARY PAVEMENT
 (CONTRACTOR HAS THE OPTION OF USING
 HMA OR PCC SECTION FOR TEMPORARY PAVEMENT
 SEE SPECIAL PROVISIONS)

- LEGEND**
- DIRECTION OF TRAFFIC
 - DIRECTION OF TRAFFIC- PEDESTRIANS
 - REMOVAL
 - TEMPORARY PAVEMENT
 - TEMPORARY CONCRETE BARRIER WALL
 - DRUMS OR TYPE II BARRICADES WITH STEADY BURN, BI-DIRECTIONAL LIGHT AT 50' C-C SPACING ON TANGENT AND 25' C-C IN TAPERS AND RADII, AND 25' C-C ON TANGENT OVER BRIDGE
 - TEMPORARY PAVEMENT MARKING LINE 4" (WHITE)
 - PAVEMENT MARKING TAPE, TYPE IV - LINE 4" (WHITE)



USER NAME = 765aks	DESIGNED - AKS	REVISED -
PLOT SCALE = 5.0000' / in.	DRAWN - CJC	REVISED -
PLOT DATE = 12/17/2018	CHECKED - DTH	REVISED -
	DATE - 11-26-18	FILE - 160541SHT_MOT-TypSec.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

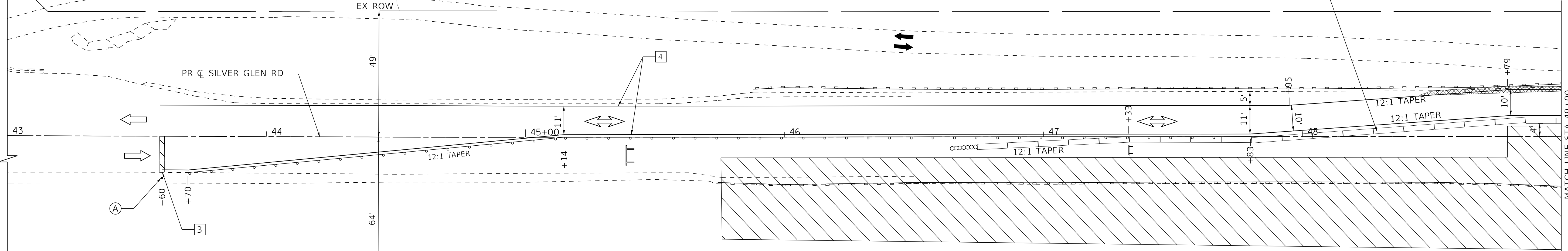
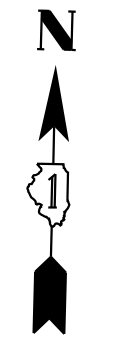
SUGGESTED MAINTENANCE OF TRAFFIC PLAN
TYPICAL SECTIONS

SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

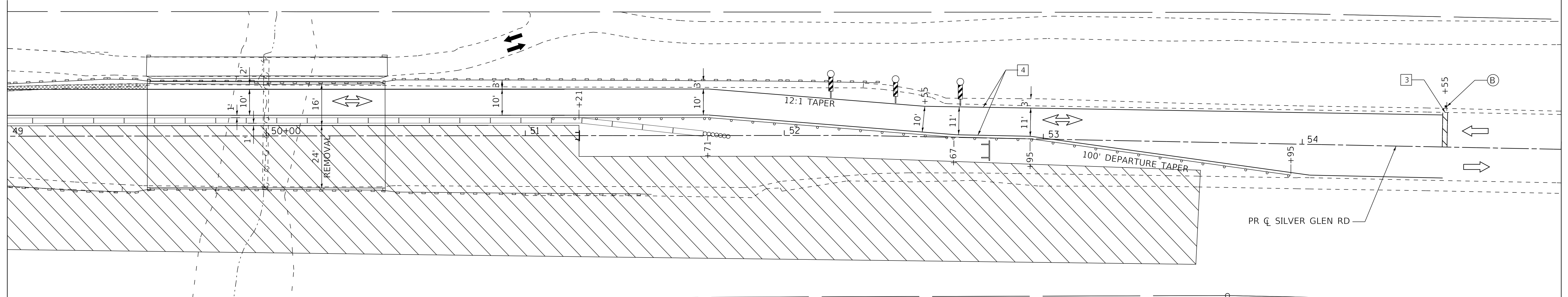
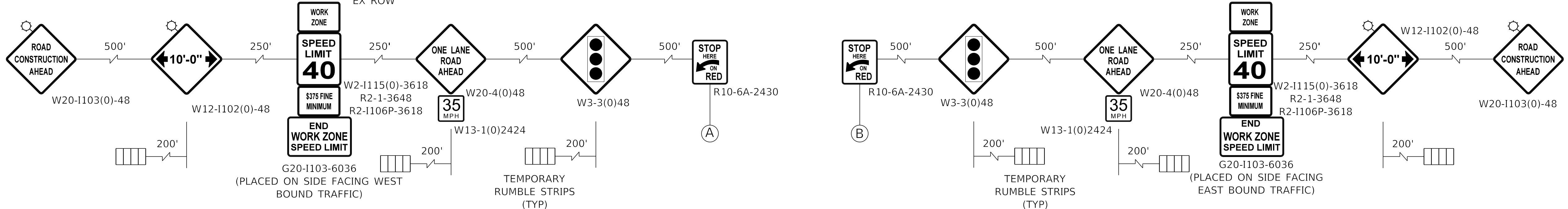
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	19
				CONTRACT NO. 61F45
ILLINOIS FED. AID PROJECT HILS(183)				

TEMPORARY CONCRETE BARRIER WALL WITH BARRIER WALL REFLECTORS, TYPE C (PINNED)
(487.5 LF) STA 46+83.5 TO STA 51+71

SILVER GLEN ROAD



MATCH LINE STA 49+00
SEE BELOW LEFT



LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- DRUMS OR TYPE II BARRICADES
- 25' C-C ON TAPERS, 50' C-C ON TANGENT, EXCEPT ON BRIDGE 25' C-C ON TANGENT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF TRAFFIC FLOW: PEDESTRIANS SIGN
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
- DOUBLE VERTICAL PANELS EVERY 25' C-C THROUGH LANE SHIFT WITH LIGHT
- TEMPORARY RUMBLE STRIP
- TEMPORARY CONCRETE BARRIER WALL WITH BARRIER WALL REFLECTORS, TYPE C
- PAVEMENT MARKING TAPE, TYPE IV - LINE 4" (WHITE)
- TEMPORARY PAVEMENT MARKING LINE - 6" (WHITE)
- PAVEMENT MARKING TAPE, TYPE IV - LINE 24" (WHITE)
- TEMPORARY PAVEMENT MARKING LINE - 4" (WHITE)

SILVER GLEN ROAD



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
7658AKS 12/17/2018 4:04:32 PM
FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_MOT-Stage1.dgn



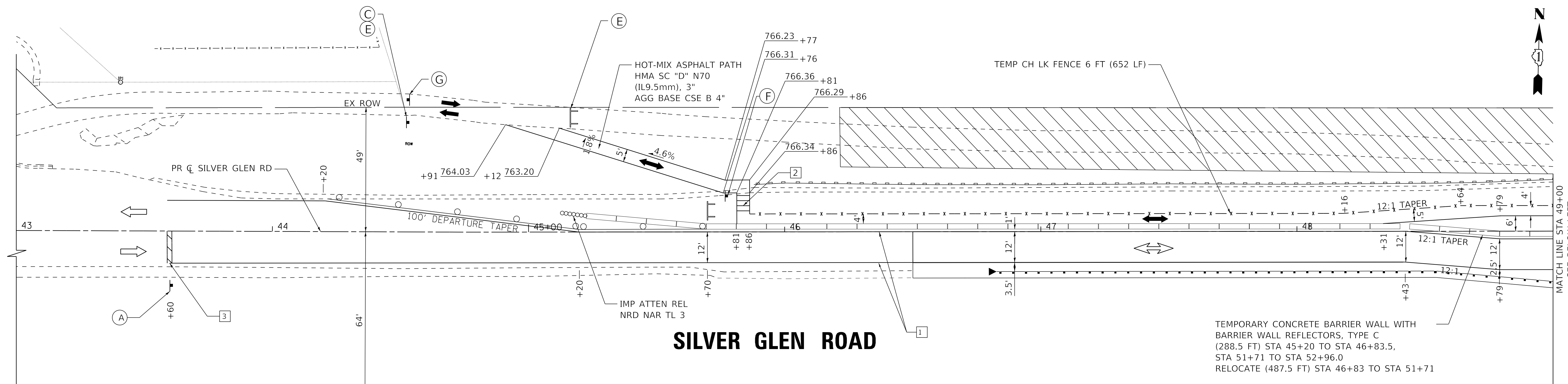
USER NAME = 7658aks	DESIGNED - AKS	REVISED -
PLOT SCALE = 20.0000" / in.	DRAWN - CJC	REVISED -
PLOT DATE = 12/17/2018	CHECKED - DTH	REVISED -
	DATE - 11-26-18	FILE - 160541SHT_MOT-Stage1.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC - STAGE 1
SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

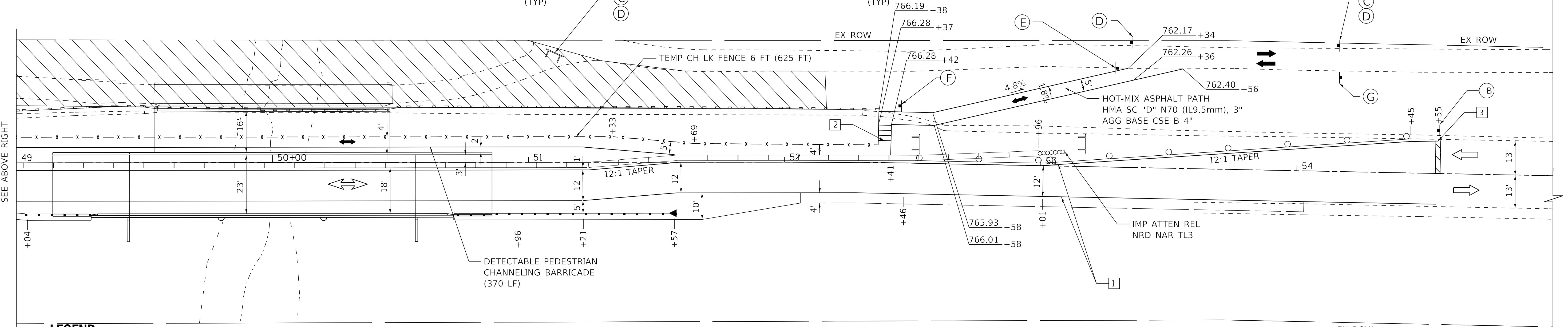
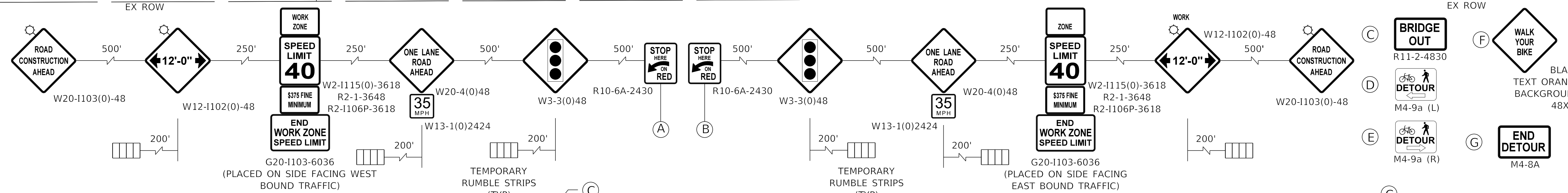
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	20
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HILS(183)				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 765AKS 12/17/2018 4:04:34 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_MOT-Stage2A.dgn
 FILE PATH: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_MOT-Stage2A.dgn



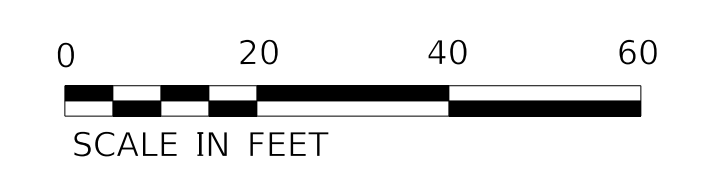
SILVER GLEN ROAD

TEMPORARY CONCRETE BARRIER WALL WITH BARRIER WALL REFLECTORS, TYPE C (288.5 FT) STA 45+20 TO STA 46+83.5, STA 51+71 TO STA 52+96.0 RELOCATE (487.5 FT) STA 46+83 TO STA 51+71



SILVER GLEN ROAD

- LEGEND**
- WORK ZONE
 - TEMPORARY PAVEMENT
 - DRUMS OR TYPE II BARRICADES 25' C-C ON TAPERS, 50' C-C ON TANGENT, EXCEPT ON BRIDGE 25' C-C ON TANGENT
 - TYPE III BARRICADE WITH FLASHING LIGHTS
 - DIRECTION OF TRAFFIC FLOW
 - DIRECTION OF TRAFFIC FLOW: PEDESTRIANS
 - SIGN
 - IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
 - DOUBLE VERTICAL PANELS EVERY 25' C-C THROUGH LANE SHIFT WITH LIGHT
 - TEMPORARY RUMBLE STRIP
 - TEMPORARY CONCRETE BARRIER WALL WITH BARRIER WALL REFLECTORS, TYPE C
 - PAVEMENT MARKING TAPE, TYPE IV - LINE 4" (WHITE)
 - TEMPORARY PAVEMENT MARKING LINE 6" (WHITE)
 - PAVEMENT MARKING TAPE, TYPE IV - LINE 24" (WHITE)



USER NAME = 765aks	DESIGNED - AKS	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - CJC	REVISED -
PLOT DATE = 12/17/2018	CHECKED - DTH	REVISED -
	DATE - 11-26-18	FILE - 160541SHT_MOT-Stage2A.dgn

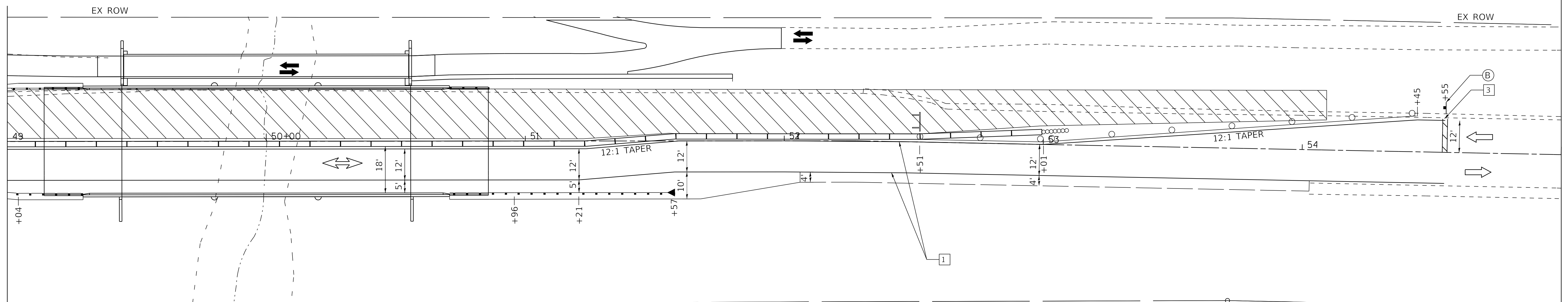
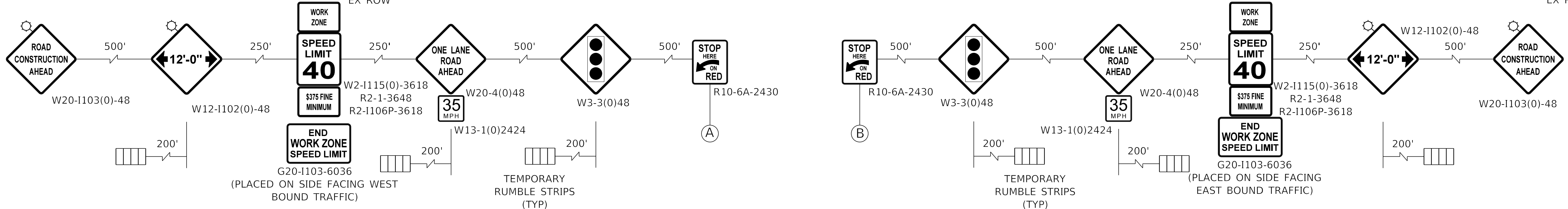
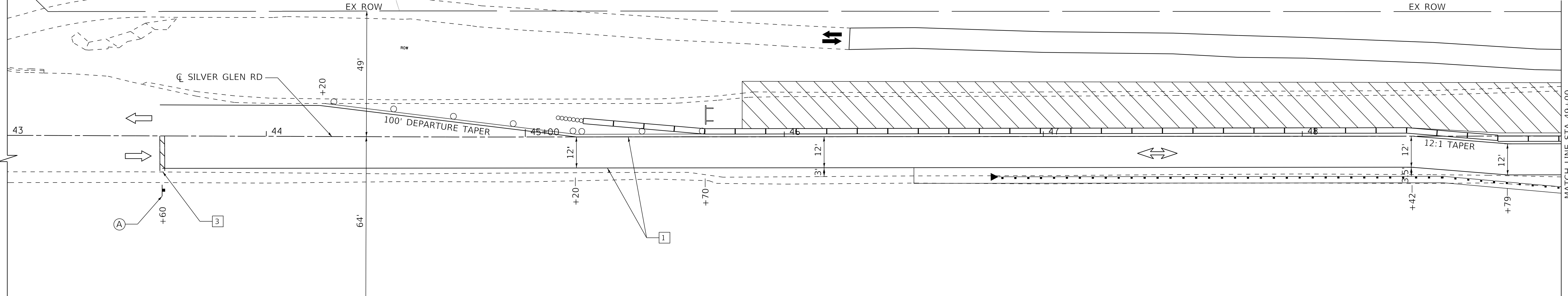
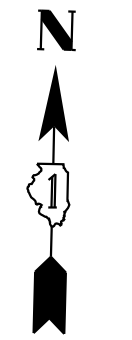
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC - STAGE 2A

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	21
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HILS(183)				

SILVER GLEN ROAD



LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- DRUMS OR TYPE II BARRICADES
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF TRAFFIC FLOW: PEDESTRIANS
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
- DOUBLE VERTICAL PANELS EVERY 25' C-C THROUGH LANE SHIFT WITH LIGHT
- TEMPORARY RUMBLE STRIP
- TEMPORARY CONCRETE BARRIER WALL WITH BARRIER WALL REFLECTORS, TYPE C
- PAVEMENT MARKING TAPE, TYPE IV - LINE 4" (WHITE)
- TEMPORARY PAVEMENT MARKING LINE 6" (WHITE)
- PAVEMENT MARKING TAPE, TYPE IV - LINE 24" (WHITE)

SILVER GLEN ROAD



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7658AKS 12/17/2018 4:04:36 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541Silver Glen over Otter\CADD\Sheets\PH2\160541SHT_MOT-Stage2B.dgn



USER NAME = 765aks	DESIGNED - AKS	REVISED -
	DRAWN - CJC	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - DTH	REVISED -
PLOT DATE = 12/17/2018	DATE - 11-26-18	FILE - 160541SHT_MOT-Stage2B.dgn

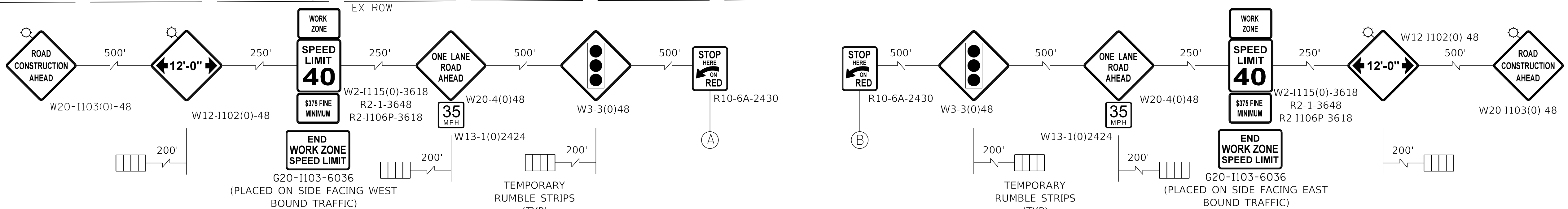
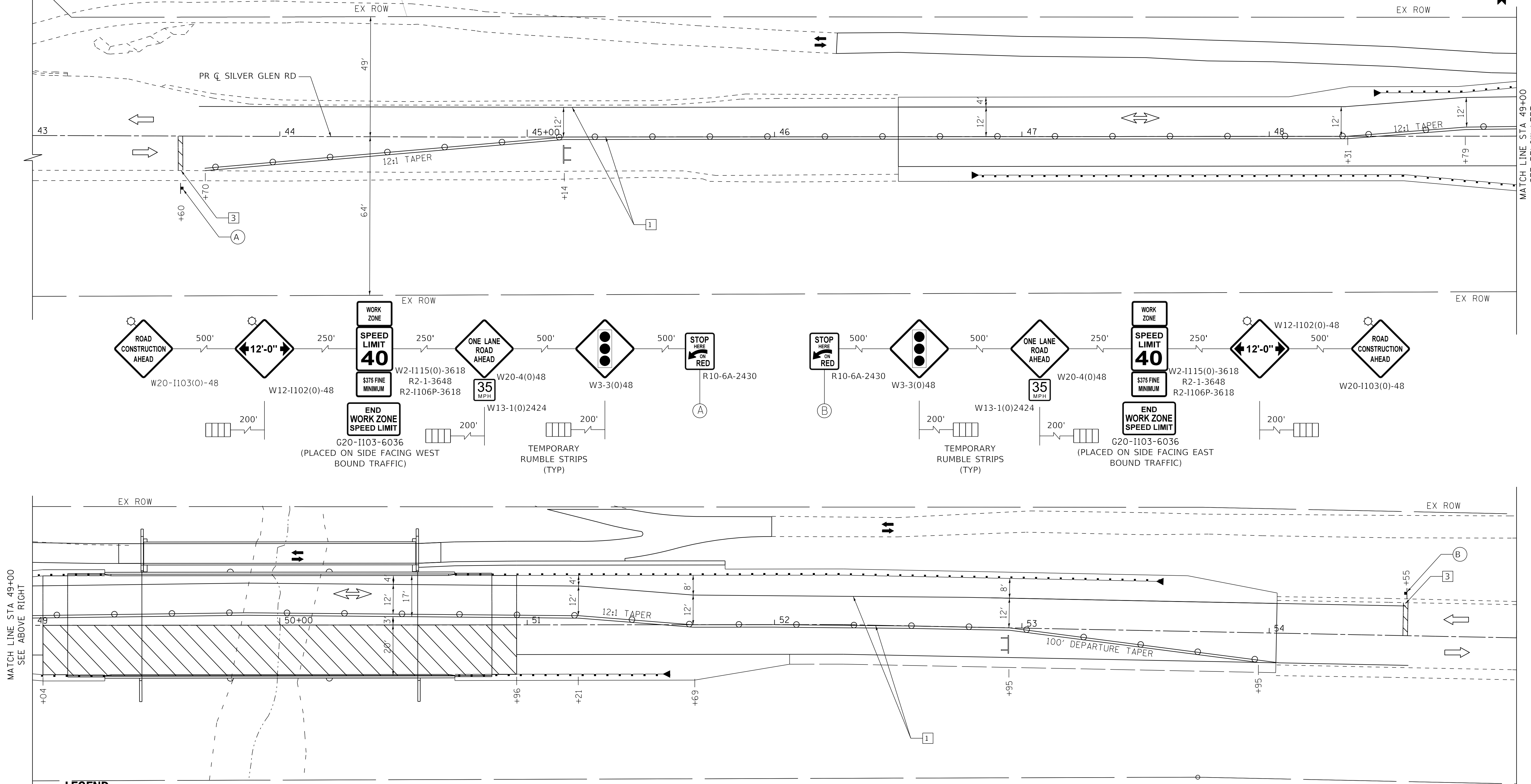
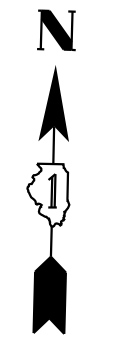
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC - STAGE 2B

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	22
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HILS(183)				

SILVER GLEN ROAD



LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- DRUMS OR TYPE II BARRICADES
25' C-C ON TAPERS,
50' C-C ON TANGENT,
EXCEPT ON BRIDGE 25' C-C ON TANGENT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF TRAFFIC FLOW: PEDESTRIANS SIGN
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
- DOUBLE VERTICAL PANELS EVERY 25' C-C THROUGH LANE SHIFT WITH LIGHT
- TEMPORARY RUMBLE STRIP

- TEMPORARY CONCRETE BARRIER WALL WITH BARRIER WALL REFLECTORS, TYPE C
- PAVEMENT MARKING TAPE, TYPE IV - LINE 4" (WHITE)
- TEMPORARY PAVEMENT MARKING LINE 6" (WHITE)
- PAVEMENT MARKING TAPE, TYPE IV - LINE 24" (WHITE)

SILVER GLEN ROAD



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7652AKS 12/17/2018 4:04:38 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen_Over\Other\CADD\Sheets-PH2\160541SHT_MOT-Stage3A.dgn
 FILE PATH: I:\Crystal Lake\KANCHE\160541-Silver Glen_Over\Other\CADD\Sheets-PH2\160541SHT_MOT-Stage3A.dgn
 ...:\plcdrv\pdrf\BW_Default.plt
 ...:\CADD\TPO\160541_PEN.tbl
 I:\Crystal Lake\KANCHE\160541-Silver Glen_Over\Other\CADD\Sheets-PH2\160541SHT_MOT-Stage3A.dgn



USER NAME = 765aks	DESIGNED - AKS	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - CJC	REVISED -
PLOT DATE = 12/17/2018	CHECKED - DTH	REVISED -
	DATE - 11-26-18	FILE - 160541SHT_MOT-Stage3A.dgn

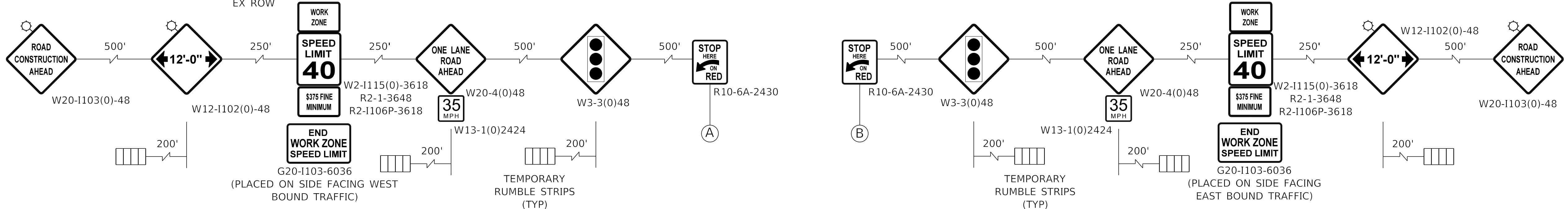
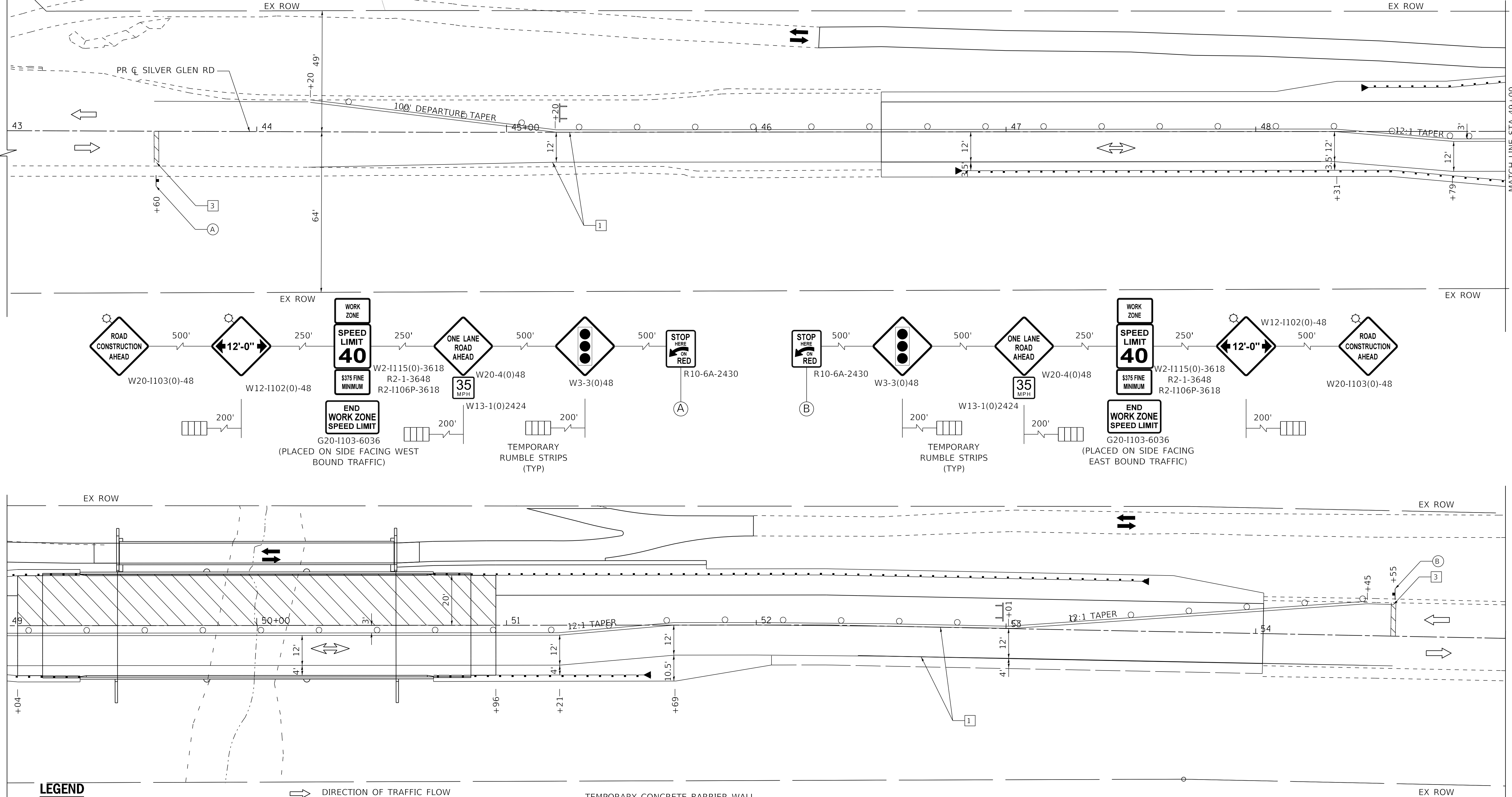
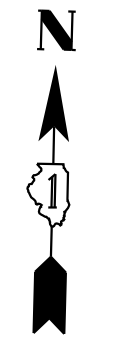
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC - STAGE 3A

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	23
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HILS(183)				

SILVER GLEN ROAD



LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- DRUMS OR TYPE II BARRICADES
- 25' C-C ON TAPERS, 50' C-C ON TANGENT, EXCEPT ON BRIDGE 25' C-C ON TANGENT
- TYPE III BARRICADE WITH FLASHING LIGHTS
- DIRECTION OF TRAFFIC FLOW
- DIRECTION OF TRAFFIC FLOW: PEDESTRIANS
- SIGN
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3
- DOUBLE VERTICAL PANELS EVERY 25' C-C THROUGH LANE SHIFT WITH LIGHT
- TEMPORARY RUMBLE STRIP
- TEMPORARY CONCRETE BARRIER WALL WITH BARRIER WALL REFLECTORS, TYPE C
- PAVEMENT MARKING TAPE, TYPE IV - LINE 4" (WHITE)
- PAVEMENT MARKING TAPE, TYPE IV - LINE 6" (WHITE)
- PAVEMENT MARKING TAPE, TYPE IV - LINE 24" (WHITE)

SILVER GLEN ROAD



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7658AKS 12/17/2018 4:04:40 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_MOT-Stage3B.dgn
 FILE NAME: I:\Crystal Lake\KANCHE\160541Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_MOT-Stage3B.dgn



USER NAME = 765aks	DESIGNED - AKS	REVISED -
	DRAWN - CJC	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - DTH	REVISED -
PLOT DATE = 12/17/2018	DATE - 11-26-18	FILE - 160541SHT_MOT-Stage3B.dgn

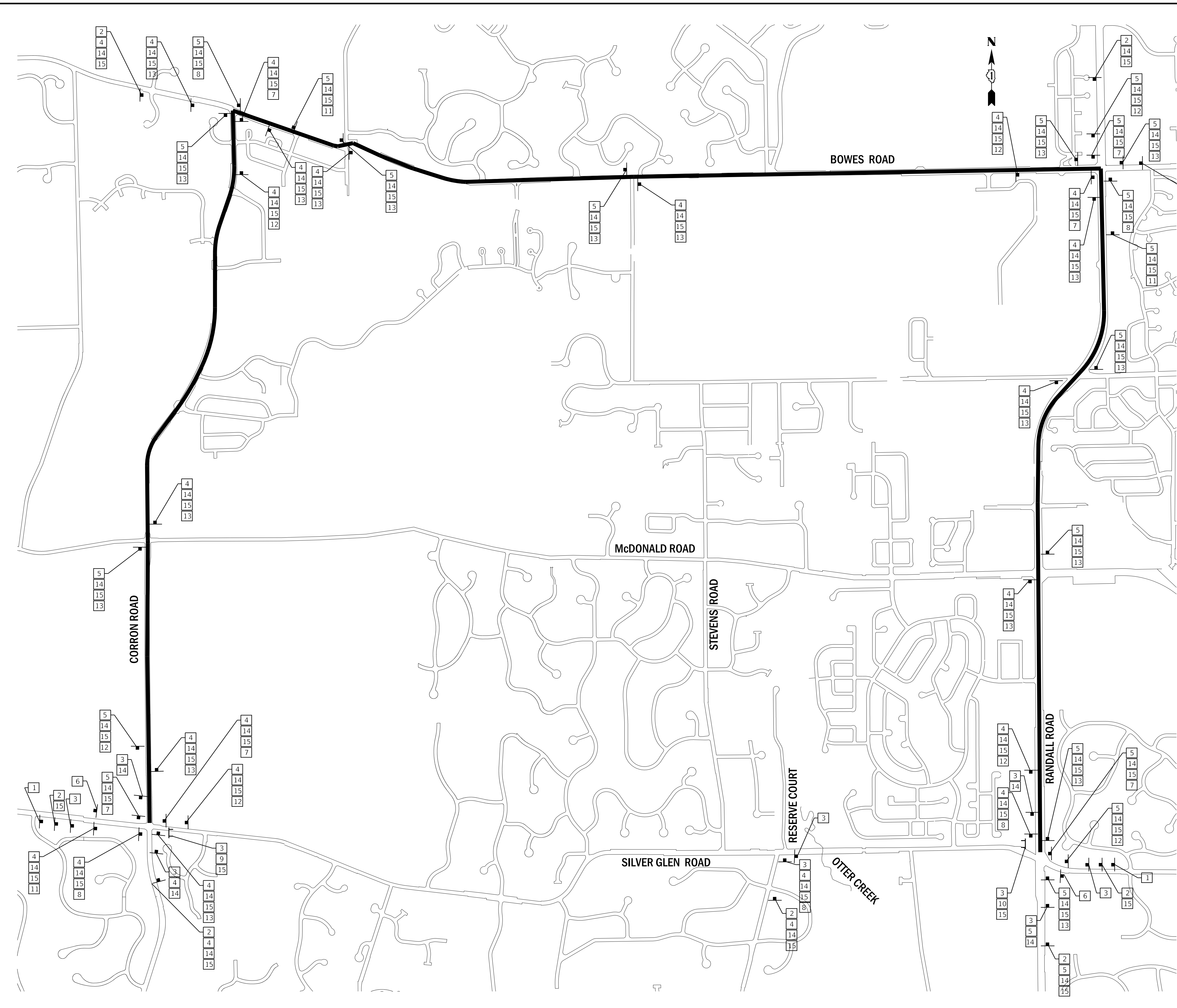
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC - STAGE 3B

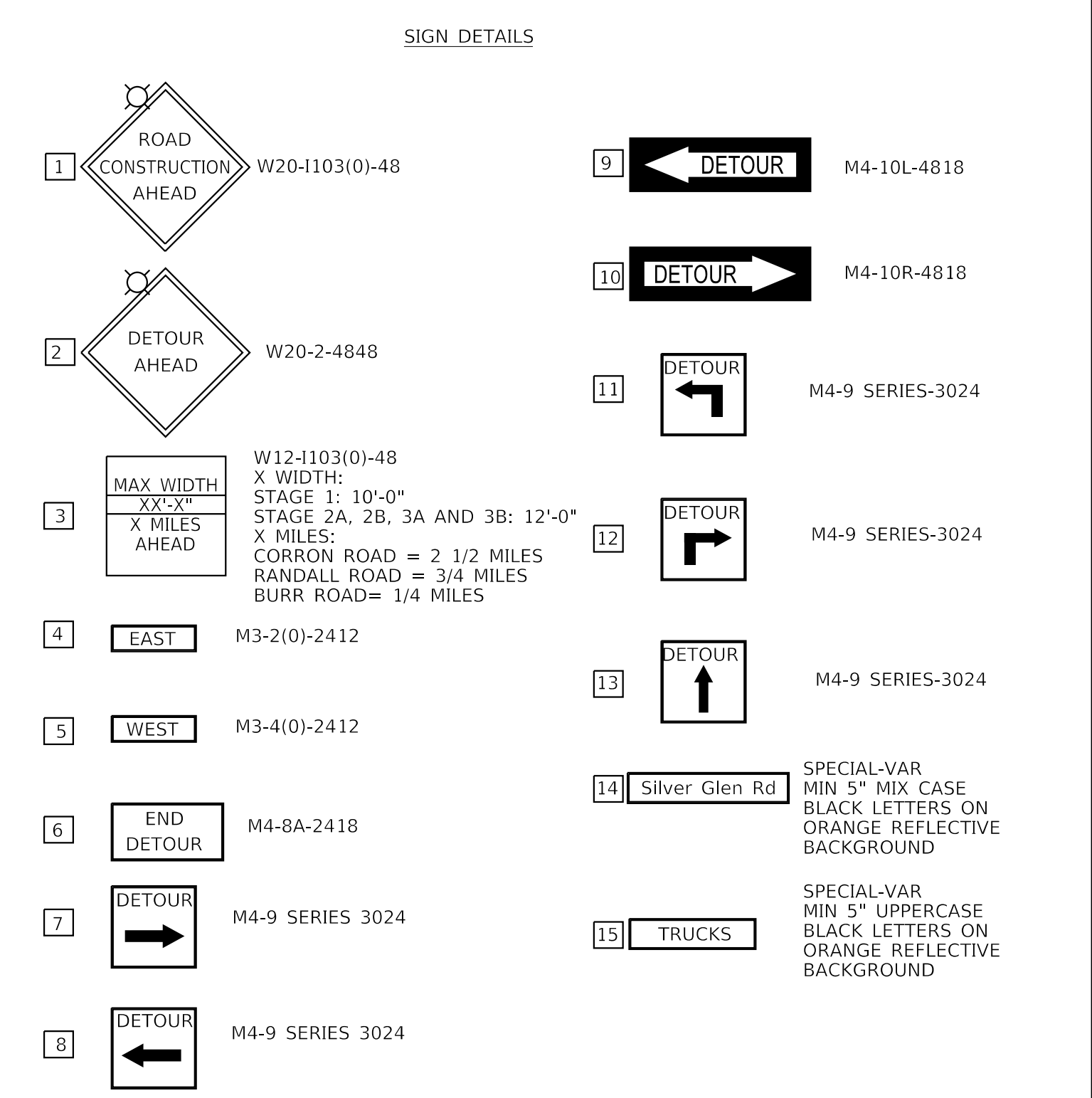
SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	24
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HILS(183)				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 765saks
 12/17/2018 4:05:05 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter Creek\CADD\Sheets\PH2\160541SHT-DetourPlan.dgn
 FILE PATH: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter Creek\CADD\Sheets\PH2\160541SHT-DetourPlan.dgn

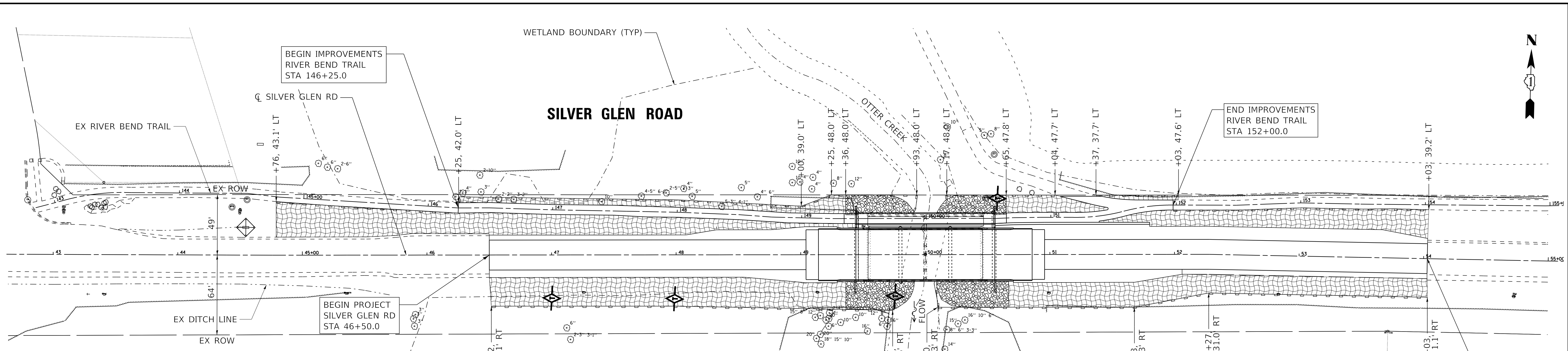


- MAINTENANCE OF TRAFFIC NOTES:**
1. DURING CONSTRUCTION STAGING OPERATIONS, THE SOUTH ELGIN POLICE, FIRE, AND PUBLIC WORKS DEPARTMENT, ST CHARLES TOWNSHIP AND THE COUNTY SHERIFF SHALL BE NOTIFIED IN WRITING 48 HOURS PRIOR TO LANE CLOSURES ON SILVER GLEN ROAD.
 2. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING.
 3. THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL). ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DETERMINED BY THE ENGINEER. THIS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
 4. THE CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE AND LOCAL TRAFFIC DURING THE CONSTRUCTION OF SILVER GLEN ROAD OVER OTTER CREEK. THE COST FOR MAINTAINING ACCESS ON SILVER GLEN ROAD SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
 5. REFER TO DISTRICT DETAIL TC-21 FOR TYPICAL SIGN LAYOUT AND SPACING.



	USER NAME = 765saks	DESIGNED - AKS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY DETOUR PLAN TRUCKS - STAGE 1		F.A.P. RTE. 526	SECTION 16-00115-02-BR	COUNTY KANE	TOTAL SHEETS 81	SHEET NO. 25
	PLOT SCALE = 1000.0000' / in.	CHECKED - DTH	REVISED -		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 61F45 ILLINOIS FED. AID PROJECT HILS(183)			
	PLOT DATE = 12/17/2018	DATE - 11-26-18	FILE - 160541SHT-DetourPlan.dgn								

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7658aks
 12/17/2018 4:05:10 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen_Over\Other\CADD\Sheets-PH2\160541SHT_Erosion.dgn
 ...:\p\cd\rv\p\df\BW_Default.plt
 ...:\CADD\TPO\160541_PEN.tbl
 I:\Crystal Lake\KANCHE\160541-Silver Glen_Over\Other\CADD\Sheets-PH2\160541SHT_Erosion.dgn



NOTES

- THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT, KANE COUNTY SMC, ENGINEER, OR LOCAL AGENCY.
- ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR OF EROSION CONTROL MEASURES.
- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE, OR DISTURBANCE.
- AREAS OR EMBANKMENTS HAVING SLOPES GREATER THAN OR EQUAL TO 3H:1V, AND APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE STABILIZED WITH MAT OR BLANKET IN COMBINATION WITH SEEDING.
- ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED, BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (e.g. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE. DEWATERING DIRECTLY INTO STREAMS, WETLANDS, FIELD TILES OR STORM WATER STRUCTURES IS PROHIBITED.
- CONTRACTOR SHALL COMPLY WITH OSHA WORK AND SAFETY RULES. CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT AND OTHER INTERESTED REGULATORY AGENCIES AND OFFICIALS PRIOR TO CONSTRUCTION. COMPLY WITH REQUIREMENTS FROM THE U.S. ARMY CORPS OF ENGINEERS, KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT, AND KANE COUNTY.
- UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL.
- ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EACH RAIN EVENT RESULTING IN RUNOFF FROM THE SITE.
- WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS.
- WORK MAY NOT BE PERFORMED IN THE WATER, EXCEPT FOR THE PLACEMENT OF MATERIALS NECESSARY FOR THE CONSTRUCTION OF COFFERDAMS. ALL MATERIALS FOR COFFERDAMS MUST BE NON-ERODIBLE. THE COFFERDAMS MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME. ONCE THE COFFERDAMS ARE IN PLACE AND ISOLATED AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE REQUIRED WORK.
- IF BYPASS PUMPING IS NECESSARY, THE PUMP SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM BEING SUCKED INTO THE HOSE. THE BYPASS DISCHARGE SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE (ROCK CHECK DAM, PLYWOOD, SHEET PILE, ETC.) PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION OF DOWNSTREAM AREAS. CLEANING OR FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES.
- 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 FOR REVIEW BY THE KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT.
- EXCEPT WHERE SHOWN OTHERWISE ON THE PLANS, THE SIDE SLOPES MUST BE RESEDED AND STABILIZED NO MORE THAN 48 HOURS AFTER FINAL GRADING OR INTERRUPTION WITH AN APPROPRIATE EROSION CONTROL BLANKET PRIOR TO ACCEPTING FLOWS. THE BOTTOM OF THE CHANNEL MUST BE BROUGHT BACK TO ITS ORIGINAL GRADE AND STABLE ENOUGH TO ACCEPT FLOWS.
- THE PORTION OF THE SIDE SLOPE THAT IS ABOVE THE OBSERVED WATER ELEVATION SHALL BE STABILIZED AS SPECIFIED IN THE PLANS PRIOR TO ACCEPTING FLOWS. THE SUBSTRATE AND TOE OF SLOPE THAT HAS BEEN DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PROPOSED OR PRE-CONSTRUCTION CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.
- STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
- CONCRETE WASHOUT FACILITIES SHALL BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
- ALL ADJACENT ROADWAYS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.
- A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE OWNER OR APPLICABLE REGULATORY AGENCY.
- FINAL ACCEPTANCE OF PROJECT WILL BE CONTINGENT ON RECORD DRAWING APPROVAL BY THE ENGINEER.
- IT IS THE RESPONSIBILITY OF THE 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, PERMITS, AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO THE DEVELOPMENT SITE, CHANNEL, WATERS OF THE U.S. OR ISOLATED WATERS OF KANE COUNTY. THE CONTRACTOR SHALL MAINTAIN THE DEVELOPMENT SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.
- THIS PROJECT REQUIRES ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY KANE COUNTY DIVISION OF TRANSPORTATION, AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO THE KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT FOR APPROVAL. IF SOIL STOCKPILES ARE PROPOSED, IDENTIFY THE LOCATIONS OF THESE ALONG WITH THE IN-STREAM WORK PLAN. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

- EQUIPMENT SHALL ONLY CROSS CHANNELS AT PERMANENT BRIDGES OR CULVERTS, EXCEPT WHEN A TEMPORARY CHANNEL CROSSING MEETS THE FOLLOWING CRITERIA.
 - FILL WITHIN THE CHANNEL SHALL BE COMPOSED OF NON-EROSIVE MATERIAL, SUCH AS RIP-RAP OR GRAVEL.
 - THE TEMPORARY CHANNEL CROSSING, IF NECESSARY, WILL BE REMOVED WITHIN ONE YEAR AFTER INSTALLATION, UNLESS THE ENFORCEMENT OFFICER GRANTS AN EXTENSION OF TIME.
- THE EROSION CONTROL QUANTITIES PROVIDED IN THE PLANS ARE APPROXIMATE. THE ACTUAL NEED FOR QUANTITIES WILL BE DETERMINED IN THE FIELD BY THE ENGINEER AT THE TIME OF CONSTRUCTION.

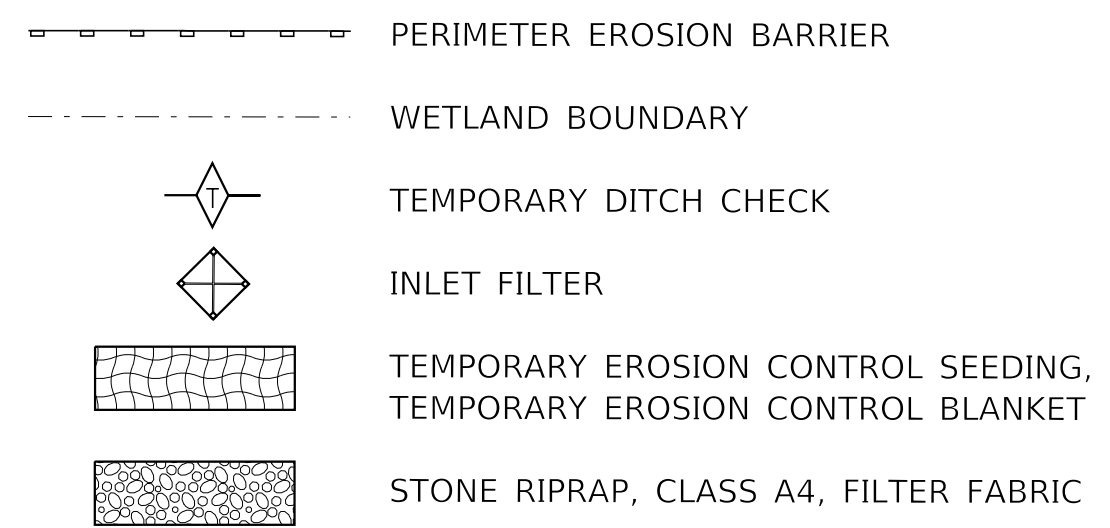
MAINTENANCE SCHEDULE

- PERIMETER EROSION BARRIER - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL PERIMETER EROSION BARRIER WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE PERIMETER EROSION BARRIER FUNCTIONAL AS DESIGNED.
- EROSION CONTROL BLANKET - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL BLANKET WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE EROSION CONTROL BLANKET FUNCTIONAL AS DESIGNED.
- INLET FILTERS - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL INLET FILTERS WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE INLET FILTERS FUNCTIONAL AS DESIGNED.
- TEMPORARY DITCH CHECK - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL DITCH CHECKS WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE DITCH CHECKS FUNCTIONAL AS DESIGNED. REMOVE SEDIMENT FROM UPSTREAM SIDE OF DITCH CHECK WHEN SEDIMENT HAS REACHED 50% OF STRUCTURE HEIGHT.

CONSTRUCTION SEQUENCING

- INSTALL SEDIMENT AND EROSION CONTROL SYSTEMS.
- MAINTENANCE OF TRAFFIC STAGE 1: COMPLETE CLEARING OF VEGETATION, GRADING, AND TEMPORARY SEEDING.
- DEMOLISH EXISTING STRUCTURE WITHOUT IMPACT OR DEBRIS ENTERING THE EXISTING WATERWAY.
- COMPLETE STRUCTURE WORK AND RESTORATION. COMPLETE STAGE 1.
- MAINTENANCE OF TRAFFIC STAGE 2: COMPLETE CLEARING OF VEGETATION, GRADING, AND TEMPORARY SEEDING.
- DEMOLISH EXISTING STRUCTURE WITHOUT IMPACT OR DEBRIS ENTERING THE EXISTING WATERWAY.
- COMPLETE STRUCTURE WORK AND RESTORATION. COMPLETE STAGE 2.
- MAINTENANCE OF TRAFFIC STAGE 3: COMPLETE ROADWAY AND BRIDGE WORK.
- COMPLETE ANY REMAINING RESTORATION.

LEGEND



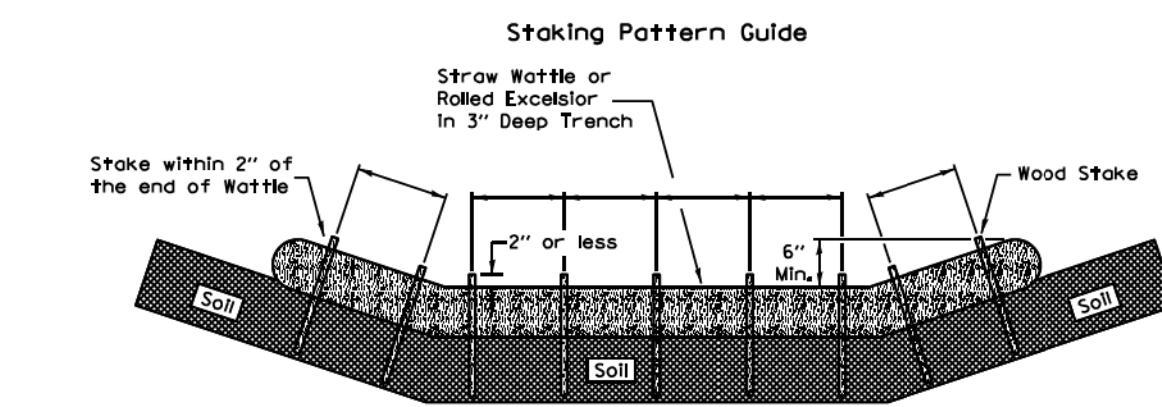
USER NAME = 765aks	DESIGNED - AKS	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - DTH	REVISED -
PLOT DATE = 12/17/2018	DATE - 11-26-18	FILE - 160541SHT_Erosion.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

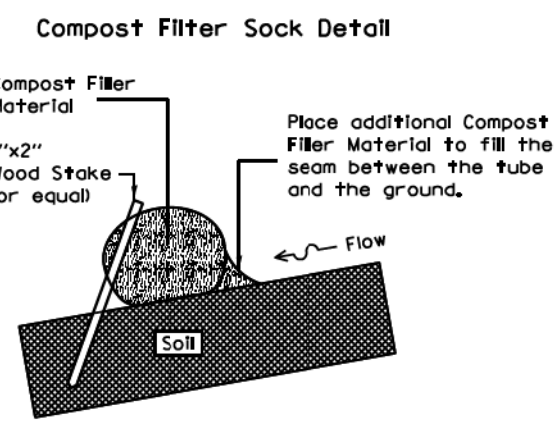
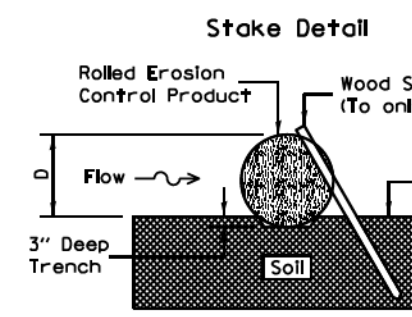
EROSION & SEDIMENT CONTROL PLAN	
SILVER GLEN ROAD	
SCALE: 1"=40'	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 526	SECTION 16-00115-02-BR	COUNTY KANE	TOTAL SHEETS 81	SHEET NO. 26
ILLINOIS FED. AID PROJECT HILS(183)			CONTRACT NO. 61F45	

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 765saks
 12/17/2018 4:05:19 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541SHT_Erosion-Detail.dgn
 FILE PATH: I:\Crystal Lake\KANCHE\160541SHT_Erosion-Detail.dgn
 ...:\p\cd\p\pdf\BW_Default.plt
 ...:\CADD\Fonts\160541_PEN.tbl
 I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_Erosion-Detail.dgn



- Notes
1. Overlap minimum is the diameter of the roll.
 2. 4" spacing for wattles.
 3. 2" spacing for rolled excelsior.
 4. Or space according to manufacturer's specifications.

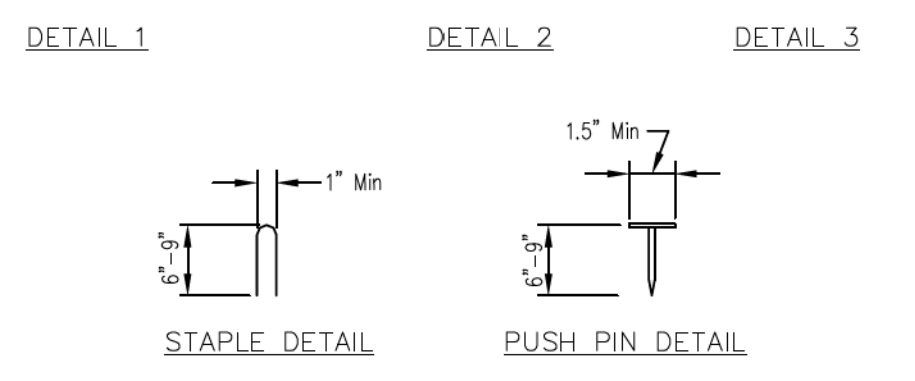
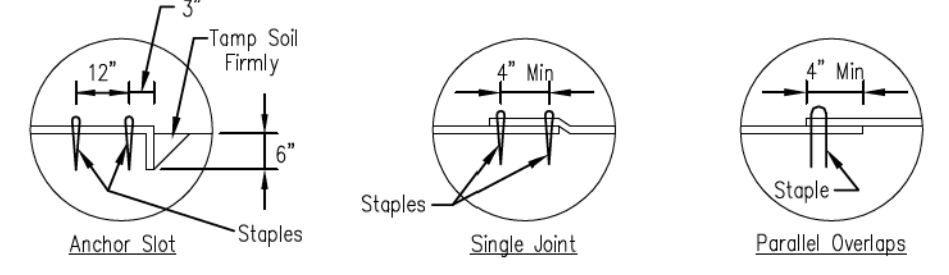
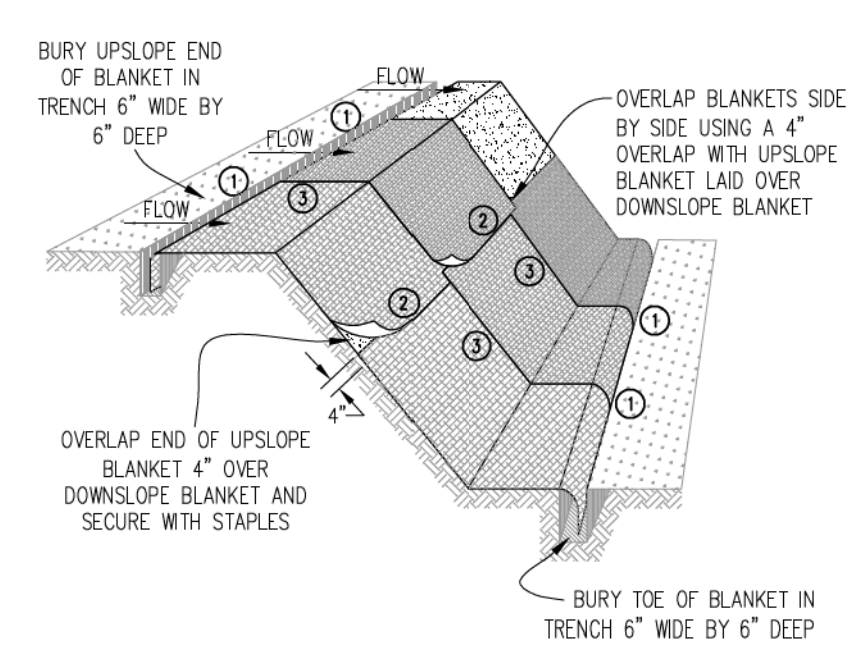


When compost filter sock ditch check is used, place a compost berm upstream of the filter sock (see IUM 805). A trench is not required.

- Notes
1. Drawings are not to scale.
 2. Ends of wattles or rolled excelsior shall be turned at least 6" upslope.
 3. Recommended stakes are 1 1/8" wide x 1 1/8" thick x 30" long.
 4. Stakes shall not extend above the straw wattle more than 2".
 5. Spacing The toe of the upstream ditch check shall create a horizontal line with the top of the downstream ditch check.
 6. 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.

TEMPORARY DITCH CHECK ROLLED EXCELSIOR

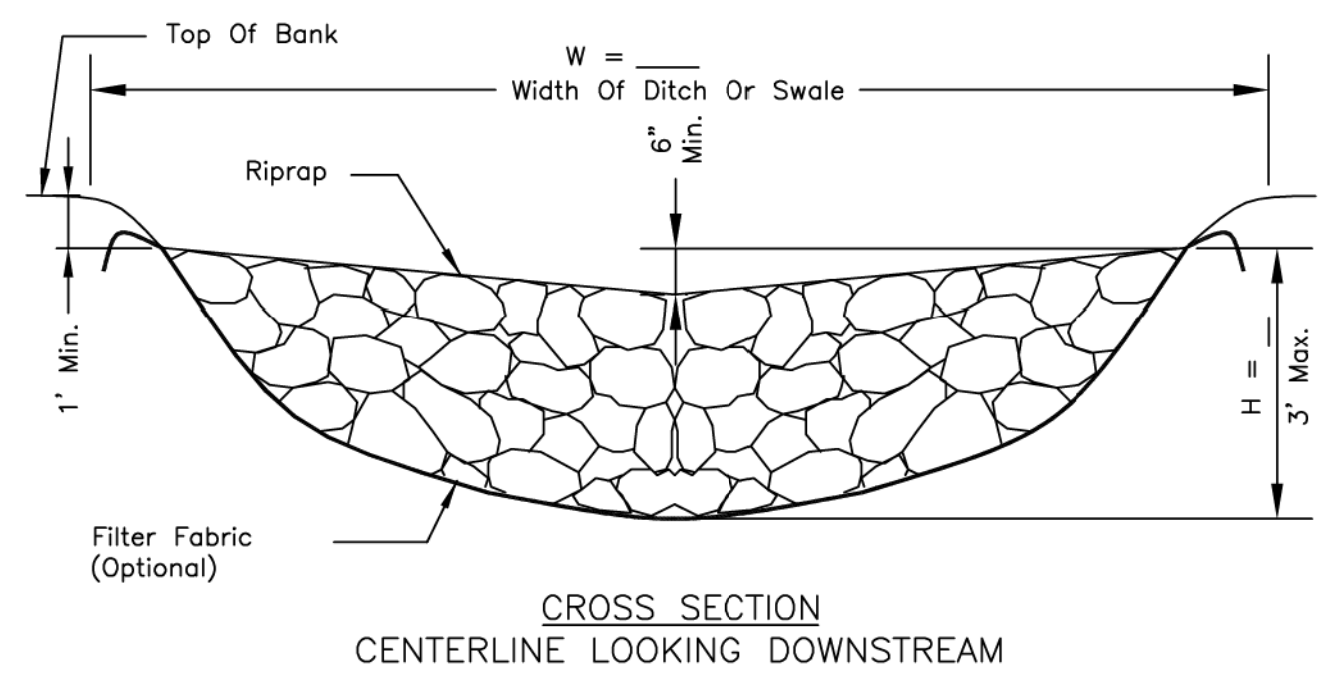
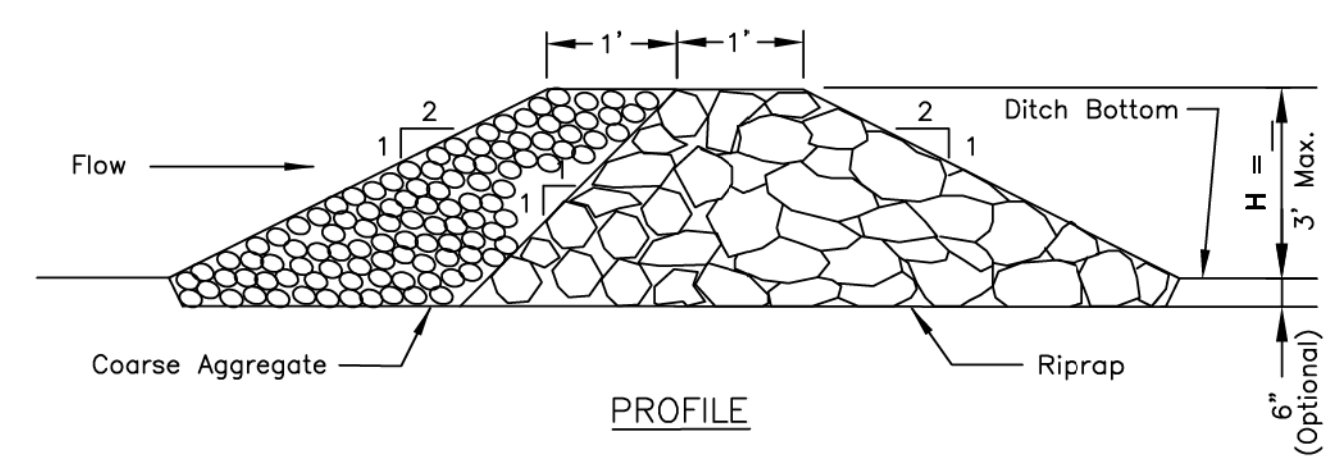
STD IUM-514
 (ROLLED EROSION CONTROL PRODUCTS)



- Notes
1. Staples shall be placed in a diamond pattern at 2 per s.y. for stitched blankets. Non-stitched shall use 4 staples per s.y. of material. This equates to 200 staples with stitched blanket and 400 staples with non-stitched blanket per 100 s.y. of material.
 2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
 3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
 4. All anchor slots shall be stapled at approximately 12" intervals.

EROSION CONTROL BLANKET INSTALLATION DETAILS

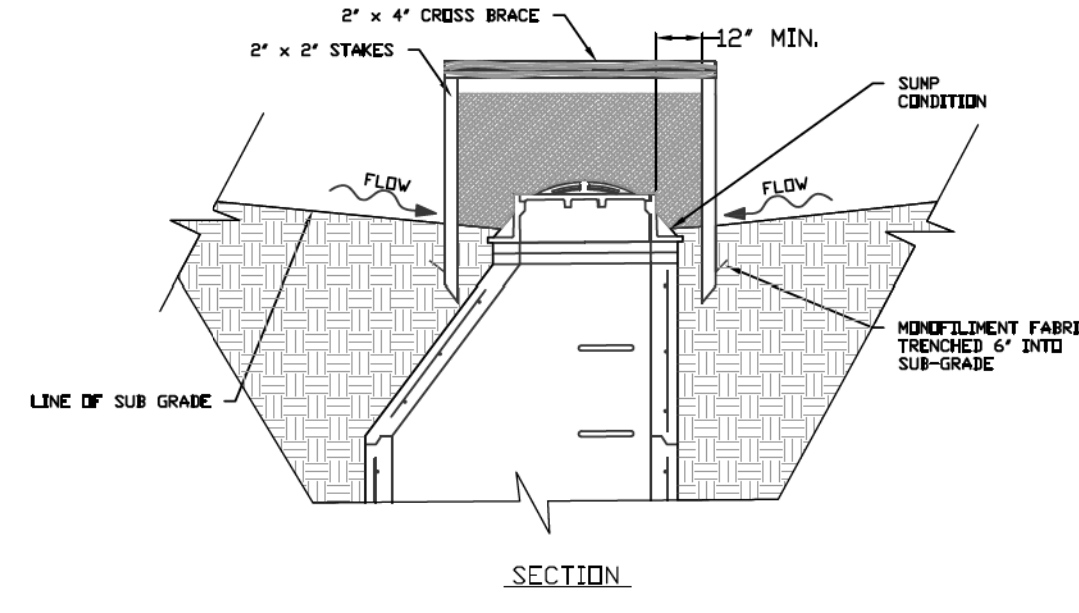
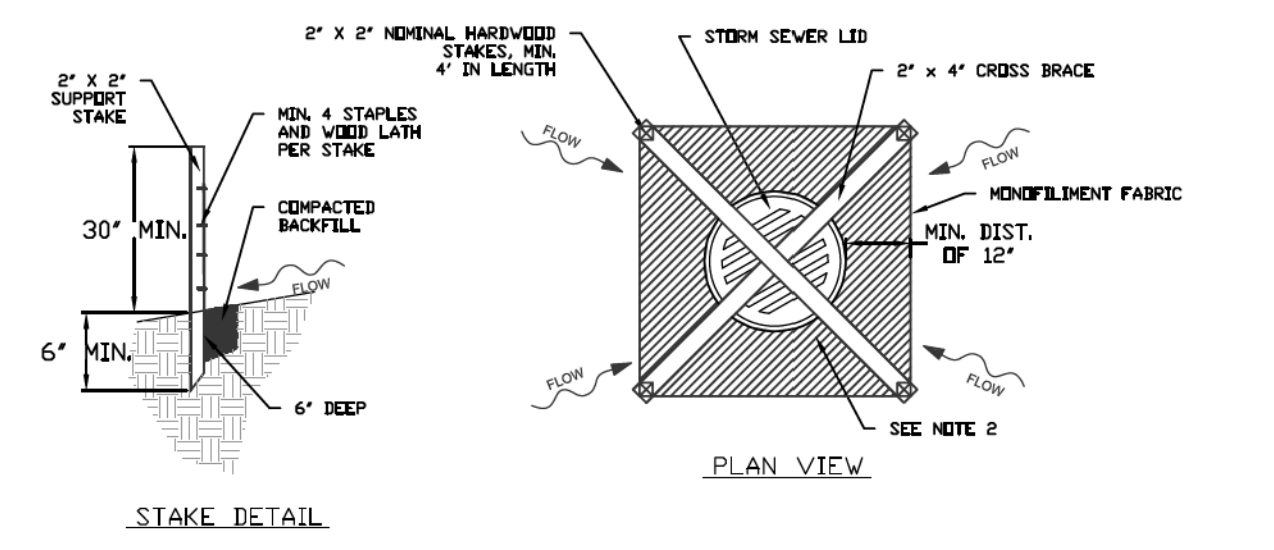
STD IL-530A, IL-530B, IUM-531
 (EROSION CONTROL BLANKET)



- Notes
1. 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. See plans for spacing of dams and H dimensions.
 7. Maximum drainage area to each dam is 10 acres.
 8. ROCK CHECK DAM-COARSE AGGREGATE IL-605CA may be used for drainage areas under 2 acres.

ROCK CHECK DAM - RIPRAP

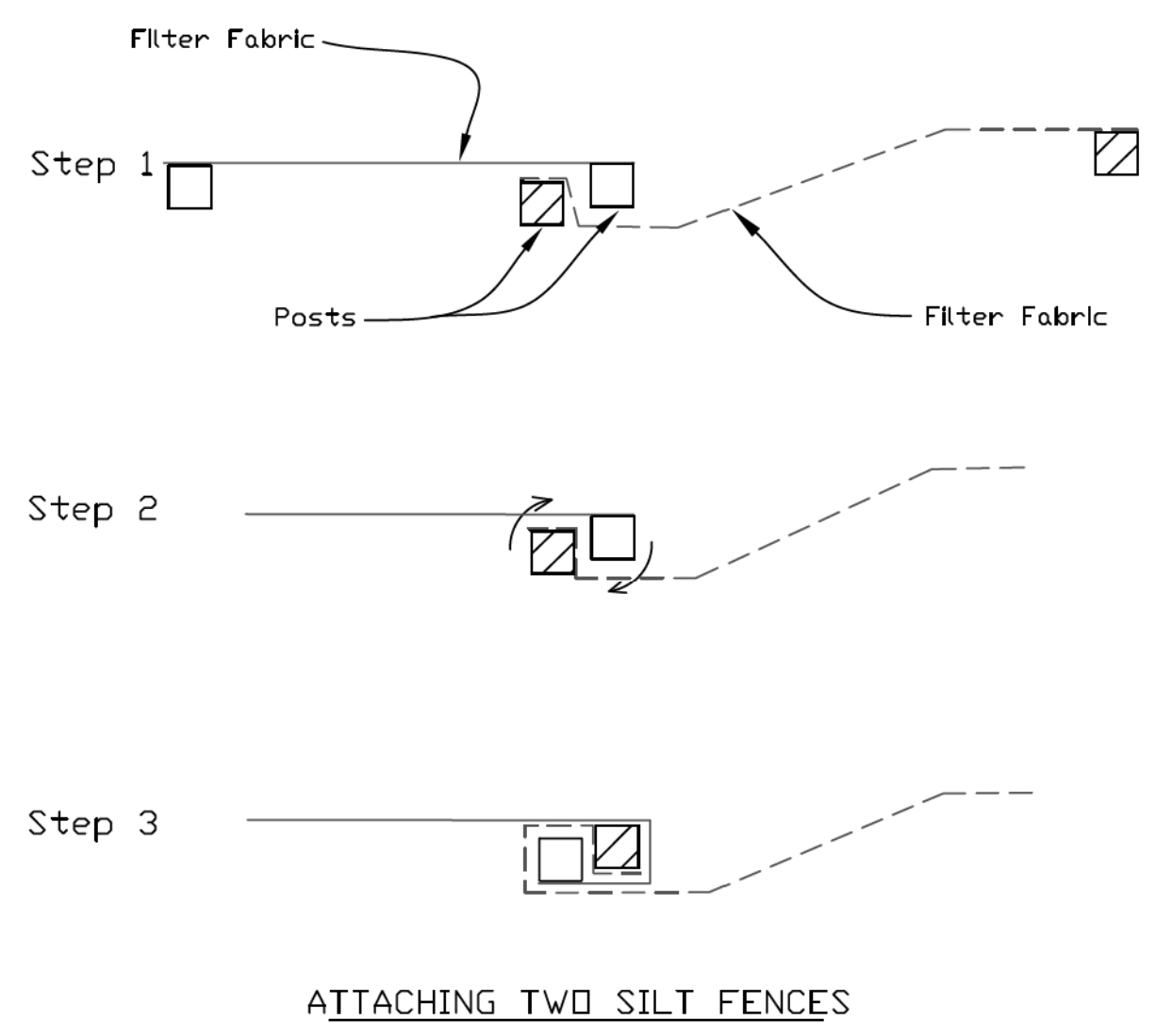
STD IL-605R
 (ROCK CHECK DAM)



- Notes
1. 2 x 2 nominal hardwood stakes, 4 foot minimum length, driven into ground approximately 18 inches, stakes driven a minimum width of 12 inches away from the drop inlet.
 2. Area inside the fence, from edge of fabric to structure, must be stabilized with Erosion Control Blanket, Turf Reinforcement Mat, Geotextile 592 Table 2 Class 2 or CA-7 stone Maximum height of the fabric above the crest of the drop inlet shall be 30". Place the bottom 6 inches of the fabric in a trench and backfill with 6 inches of 95% compacted soil.
 3. Stakes must be a maximum of 4 feet apart.
 4. A maintenance schedule must maintain a sediment accumulation of less than 50% of the height of the monofilament fabric.
 5. Monofilament fabric shall meet the requirement of Material Specification 592 Geotextile Table 1, Class 4.
 6. Monofilament fabric shall be secured to each 2" x 2" nominal hardwood stake with a minimum of 4 steel staple fasteners and wood lath. Wood lath shall be a minimum length of 10 inches. Wire fasteners should be used if metal T-Posts are installed in place of hardwood stakes.

INLET PROTECTION - MONOFILAMENT FABRIC BARRIER FENCE

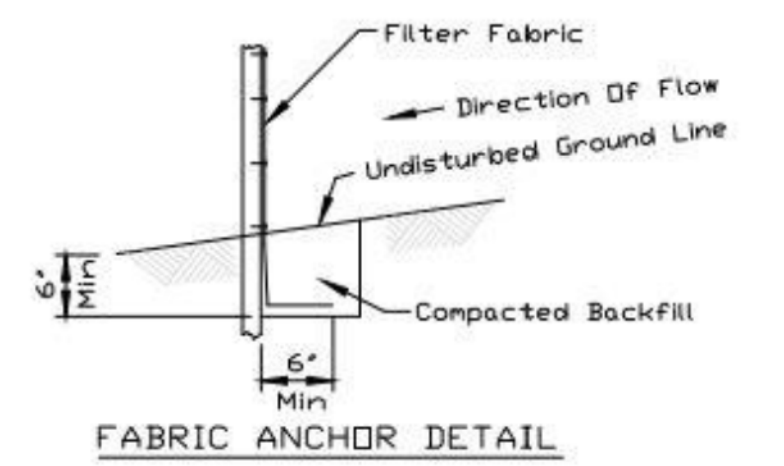
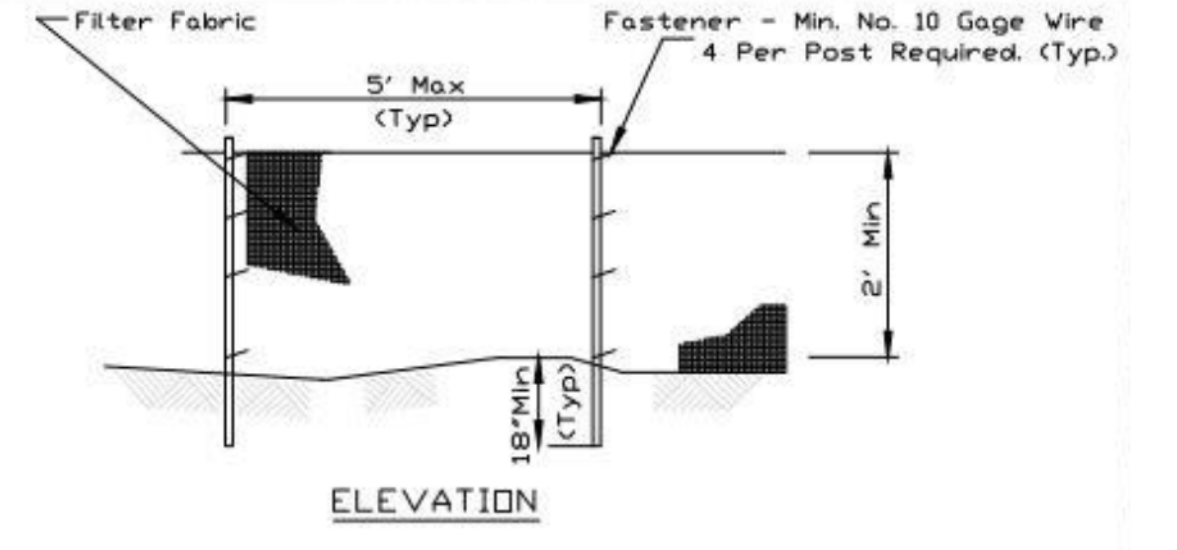
STD IUM-6545B
 (TEMPORARY CONCRETE WASHOUT)



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

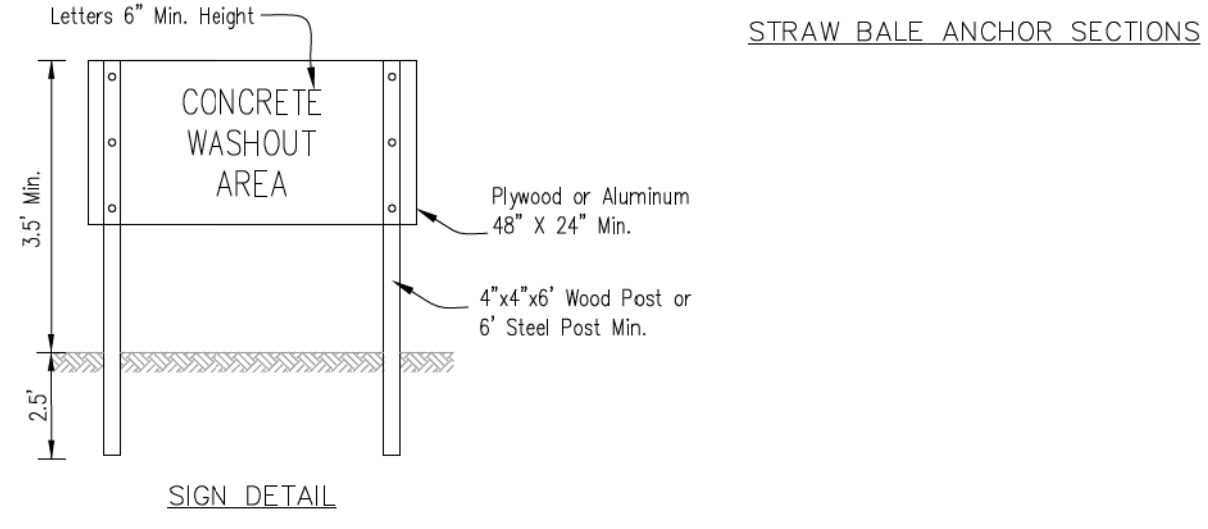
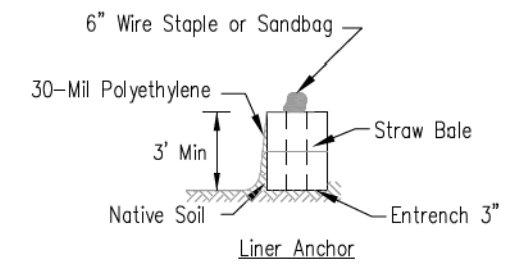
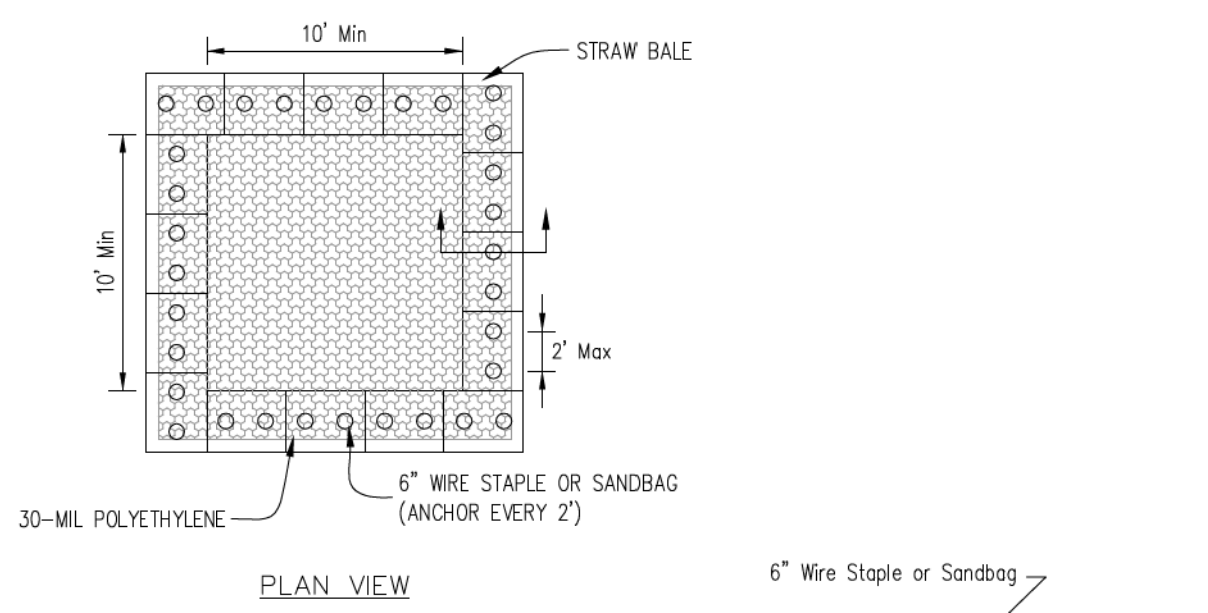
STD IUM-620B
 (SILT FENCE - SPLICING TWO FENCES)



- 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 based upon performance needed.
 3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 2" x 2" nominal size.

PERIMETER EROSION BARRIER (SILT FENCE)

STD IUM-620A
 (SILT FENCE PLAN)



- 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-6545B
 (TEMPORARY CONCRETE WASHOUT)



USER NAME = 765saks	DESIGNED - AKS	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - CJC	REVISED -
PLOT DATE = 12/17/2018	CHECKED - DTH	REVISED -
	DATE - 11-26-18	FILE - 160541SHT_Erosion-Details.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

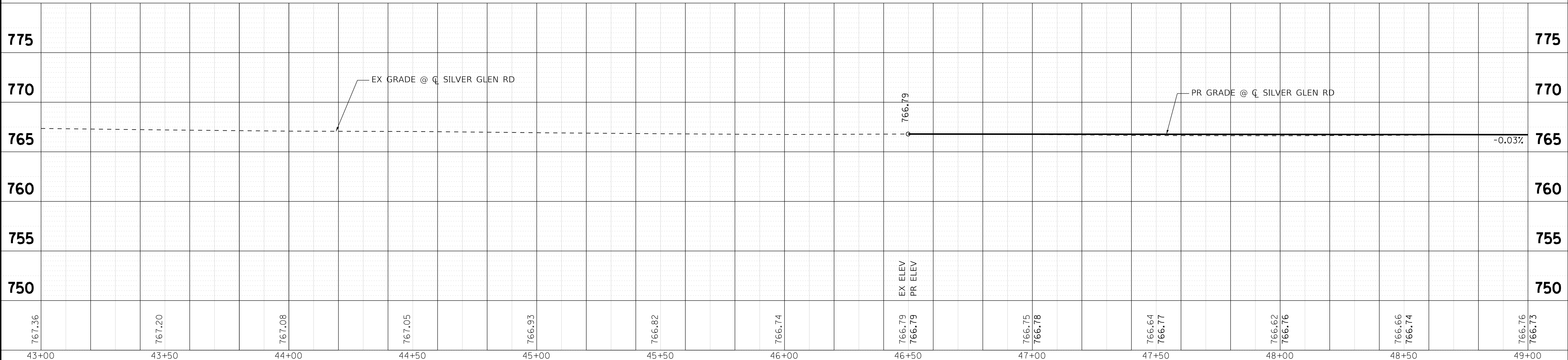
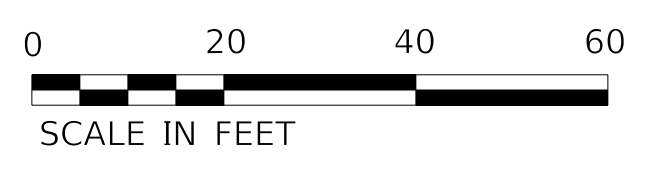
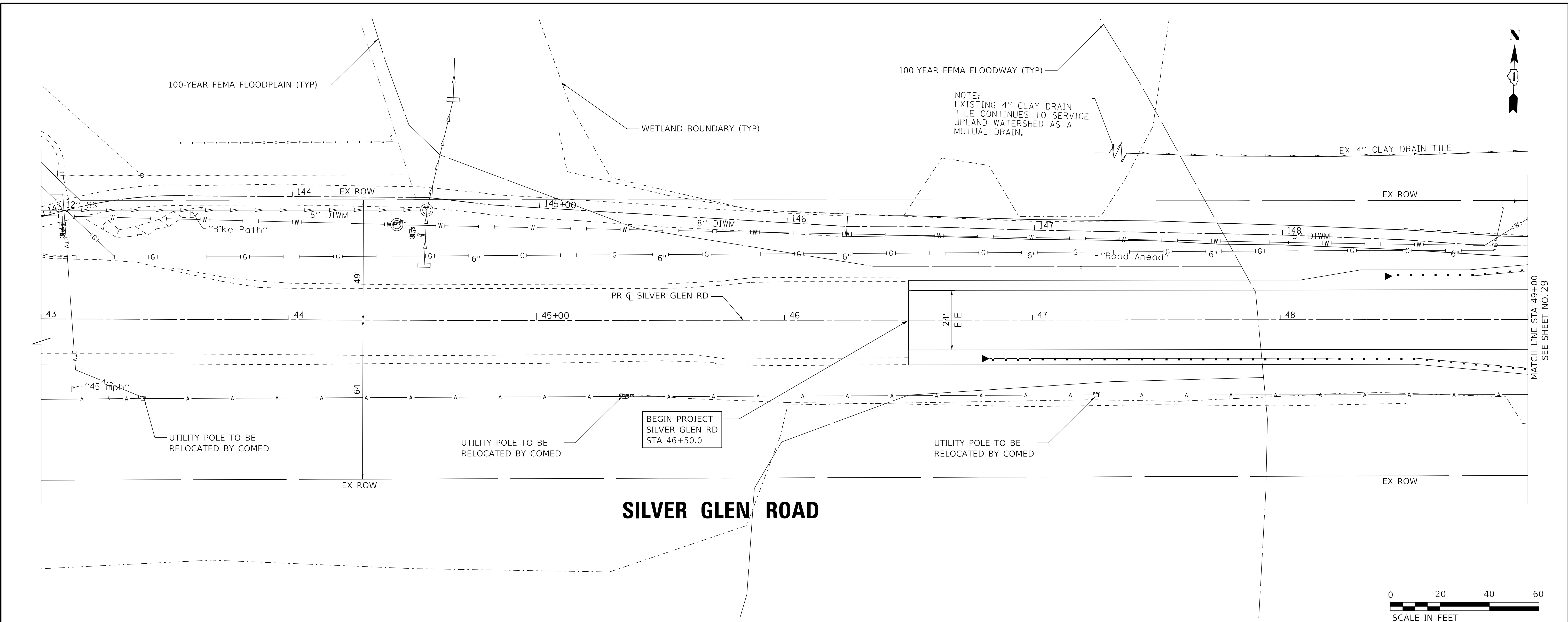
EROSION AND SEDIMENT CONTROL DETAILS	
SCALE: NONE	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	27
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HILS(183)				

DATE	
BY	
SURVEYED	
ALIGNED	
CHECKED	
NO.	
NOTE BOOK	
CADD FILE NAME	

DATE	
BY	
SURVEYED	
GRADES	
CHECKED	
NO.	
NOTE BOOK	
CADD FILE NAME	

COPYRIGHT © 2018, BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7653aks
 MODEL: Default
 FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANC\160541-Silver Glen over Other\CADD\Sheets-P12\160541SHT_DU1.dgn



767.36	767.20	767.08	767.05	766.93	766.82	766.74	766.79	766.79	766.75	766.78	766.64	766.77	766.62	766.76	766.66	766.74	766.76	766.73
43+00	43+50	44+00	44+50	45+00	45+50	46+00	46+50	47+00	47+50	48+00	48+50	49+00						



USER NAME = 765aks	DESIGNED - AKS	REVISED -
	DRAWN - CJC	REVISED -
PLOT SCALE = 20.0000" / in.	CHECKED - DTH	REVISED -
PLOT DATE = 12/17/2018	DATE - 11-26-18	FILE - 160541SHT_DU1.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=20'		SHEET 1 OF 2 SHEETS	STA. 43+00 TO STA. 49+00
---------------	--	---------------------	--------------------------

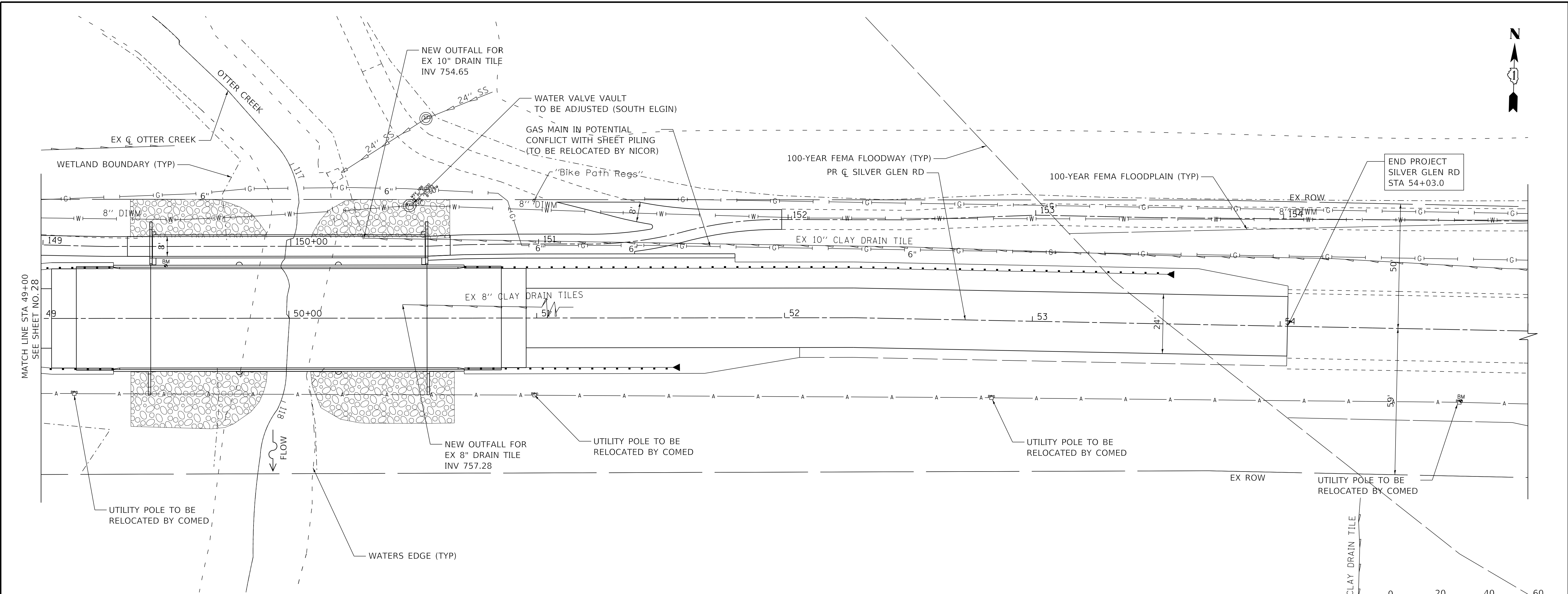
DRAINAGE & UTILITIES
SILVER GLEN ROAD

F.A.P. RTE. 526	SECTION 16-00115-02-BR	COUNTY KANE	TOTAL SHEETS 81	SHEET NO. 28
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HILS(183)				

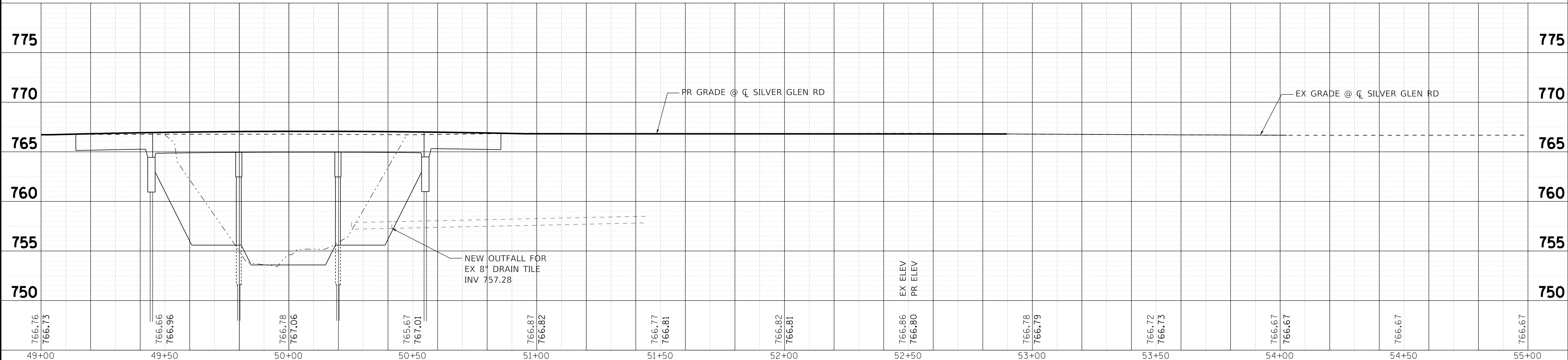
DATE	
BY	
PLAN	
SURVEYED	
ALIGNED	
CHECKED	
NO. BOOK	
NO. SHEET	
CADD FILE NAME	

DATE	
BY	
PROFILE	
SURVEYED	
GRADES	
CHECKED	
NO. BOOK	
NO. SHEET	
CADD FILE NAME	

COPYRIGHT © 2018, BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7653aks
 MODEL: Default
 FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANC\160541-Silver Glen over Otter\CADD\Sheets\PH2\160541SHT_DU2.dgn



SILVER GLEN ROAD



USER NAME = 765aks	DESIGNED - AKS	REVISED -
	DRAWN - CJC	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - DTH	REVISED -
PLOT DATE = 12/17/2018	DATE - 11-26-18	FILE - 160541SHT_DU2.dgn

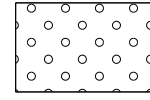
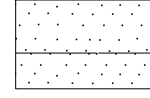
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

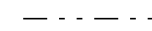
SCALE: 1"=20'		SHEET 2 OF 2 SHEETS	STA. 49+00 TO STA. 55+00
---------------	--	---------------------	--------------------------

DRAINAGE & UTILITIES SILVER GLEN ROAD

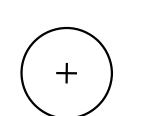
F.A.P. RTE. 526	SECTION 16-00115-02-BR	COUNTY KANE	TOTAL SHEETS 81	SHEET NO. 29
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HILS(183)				

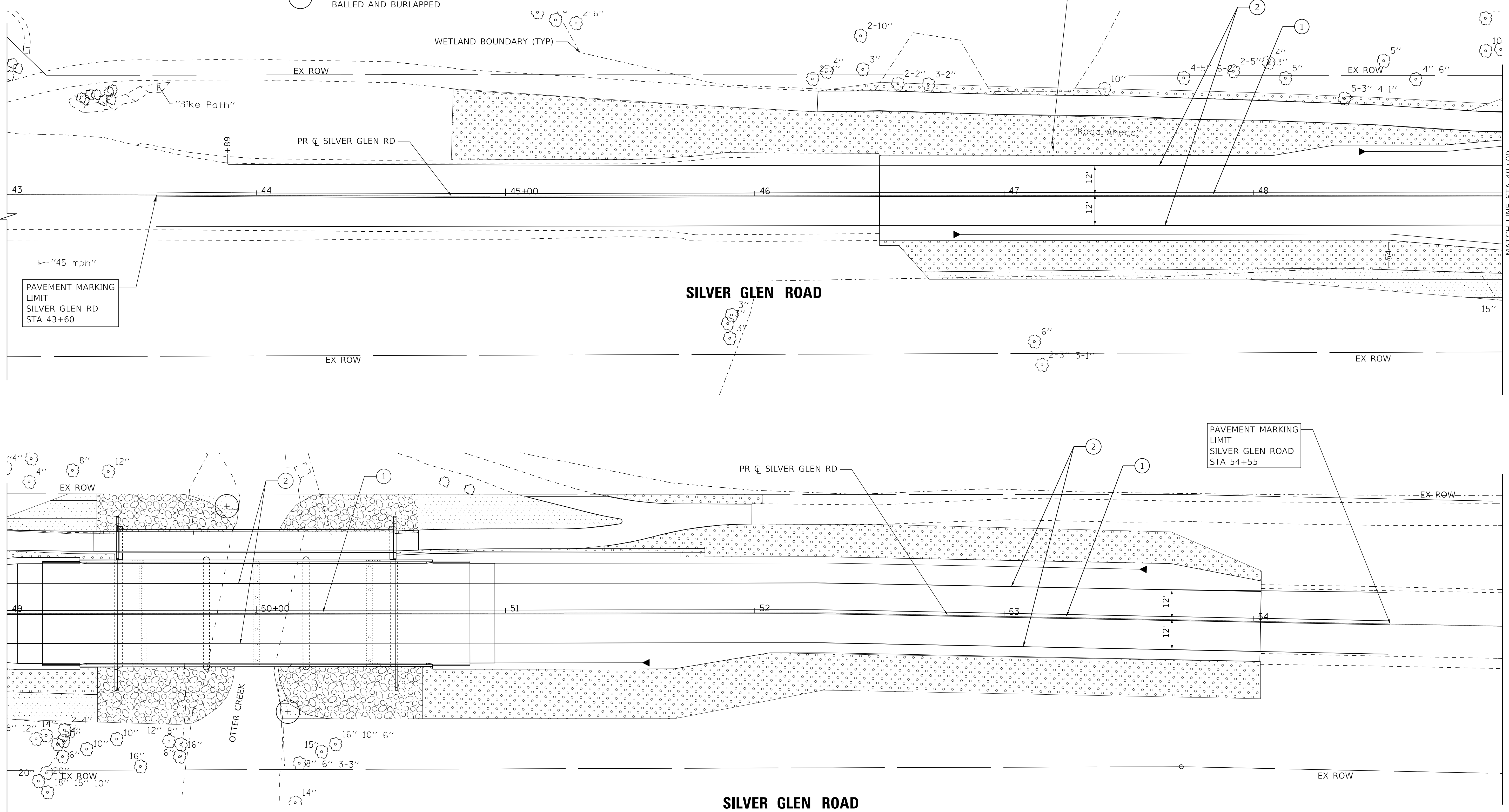
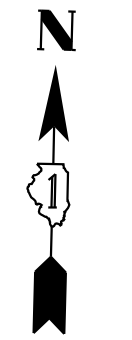
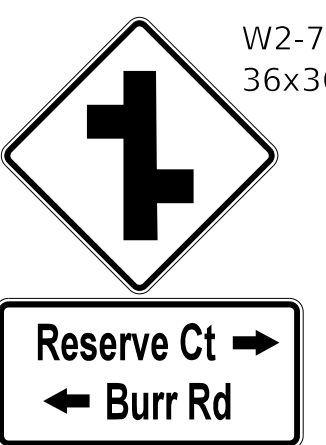
LEGEND

-  SEEDING, CLASS 2A EROSION CONTROL BLANKET (SPECIAL)
-  SEEDING, CLASS 4B EROSION CONTROL BLANKET (SPECIAL)

-  RIPRAP, CLASS A4 FILTER FABRIC
-  WATERS OF THE U.S.

- ① PAINT PAVEMENT MARKING - LINE 4" DOUBLE CENTERLINE (YELLOW) (11" C-C)
- ② PAINT PAVEMENT MARKING - LINE 4" (WHITE)

-  SHRUB, SALIX DISCOLOR (PUSSY WILLOW), 3' HEIGHT, BALLED AND BURLAPPED



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7652AKS 12/17/2018 4:05:43 PM
 FILE NAME: \\gpb.baxwood.com\Projects\Crystal Lake\KANCH160541-Silver Glen over Otter Creek\Drawings\160541SHT_PM.dgn
 FILE PATH: \\gpb.baxwood.com\Projects\Crystal Lake\KANCH160541-Silver Glen over Otter Creek\Drawings\160541SHT_PM.dgn
 ...:\p\cd\drv\p\df\BW_Default.plt
 ...:\CADD\Plots\160541_PEN.tbl
 \\corp.baxwood.com\Projects\Crystal Lake\KANCH160541-Silver Glen over Otter Creek\Drawings\160541SHT_PM.dgn



USER NAME = 765aks	DESIGNED - AKS	REVISED -
DRAWN - CJC	CHECKED - DTH	REVISED -
PLOT SCALE = 20.0000' / in.	DATE - 11-26-18	FILE - 160541SHT_PM.dgn
PLOT DATE = 12/17/2018		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING, SIGNAGE AND LANDSCAPING PLAN
SILVER GLEN ROAD
 SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 43+00 TO STA. 55+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	31
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HILS(183)				

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE			SIGNAL HEAD		
COMMUNICATION CABINET			-ROUND			-(P) PROGRAMMABLE SIGNAL HEAD		
MASTER CONTROLLER			HEAVY DUTY HANDHOLE -SQUARE					
MASTER MASTER CONTROLLER			-ROUND			SIGNAL HEAD WITH BACKPLATE		
UNINTERRUPTABLE POWER SUPPLY			DOUBLE HANDHOLE			-(P) PROGRAMMABLE SIGNAL HEAD		
SERVICE INSTALLATION -(P) POLE MOUNTED			JUNCTION BOX			-(RB) RETROREFLECTIVE BACKPLATE		
SERVICE INSTALLATION -(G) GROUND MOUNTED			RAILROAD CANTILEVER MAST ARM					
-(GM) GROUND MOUNTED METERED			RAILROAD FLASHING SIGNAL			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
TELEPHONE CONNECTION			RAILROAD CROSSING GATE			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CROSSBUCK			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
ALUMINUM MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
WOOD POLE			SYSTEM ITEM			COAXIAL CABLE		
GUY WIRE			INTERSECTION ITEM			VENDOR CABLE		
SIGNAL HEAD			REMOVE ITEM			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL HEAD WITH BACKPLATE			RELOCATE ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F		
SIGNAL HEAD OPTICALLY PROGRAMMED			ABANDON ITEM			-NO. 62.5/125, MM12F SM12F		
FLASHER INSTALLATION -(FS) SOLAR POWERED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED			-NO. 62.5/125, MM12F SM24F		
PEDESTRIAN SIGNAL HEAD			MAST ARM POLE AND FOUNDATION TO BE REMOVED			-NO. 62.5/125, MM12F SM24F		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			SIGNAL POST AND FOUNDATION TO BE REMOVED			GROUND ROD -(C) CONTROLLER		
RADAR DETECTION SENSOR			DETECTOR LOOP, TYPE I			-(M) MAST ARM		
VIDEO DETECTION CAMERA			PREFORMED DETECTOR LOOP			-(P) POST		
RADAR/VIDEO DETECTION ZONE			SAMPLING (SYSTEM) DETECTOR			-(S) SERVICE		
PAN, TILT, ZOOM (PTZ) CAMERA			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
CONFIRMATION BEACON			WIRELESS DETECTOR SENSOR					
WIRELESS INTERCONNECT			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT RADIO REPEATER								

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 705 S. KANSAS ST. - SUITE 100 - CHICAGO, IL 60605
 12/17/2018 4:05:48 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541-SHT_D1_DETAILS - TS.dgn
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541-SHT_D1_DETAILS - TS.dgn

FILE NAME =	USER NAME = luyaa	DESIGNED - IP	REVISED -
ts05.dgn		DRAWN - IP	REVISED -
Default		CHECKED - LP	REVISED -
		DATE - 9/29/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

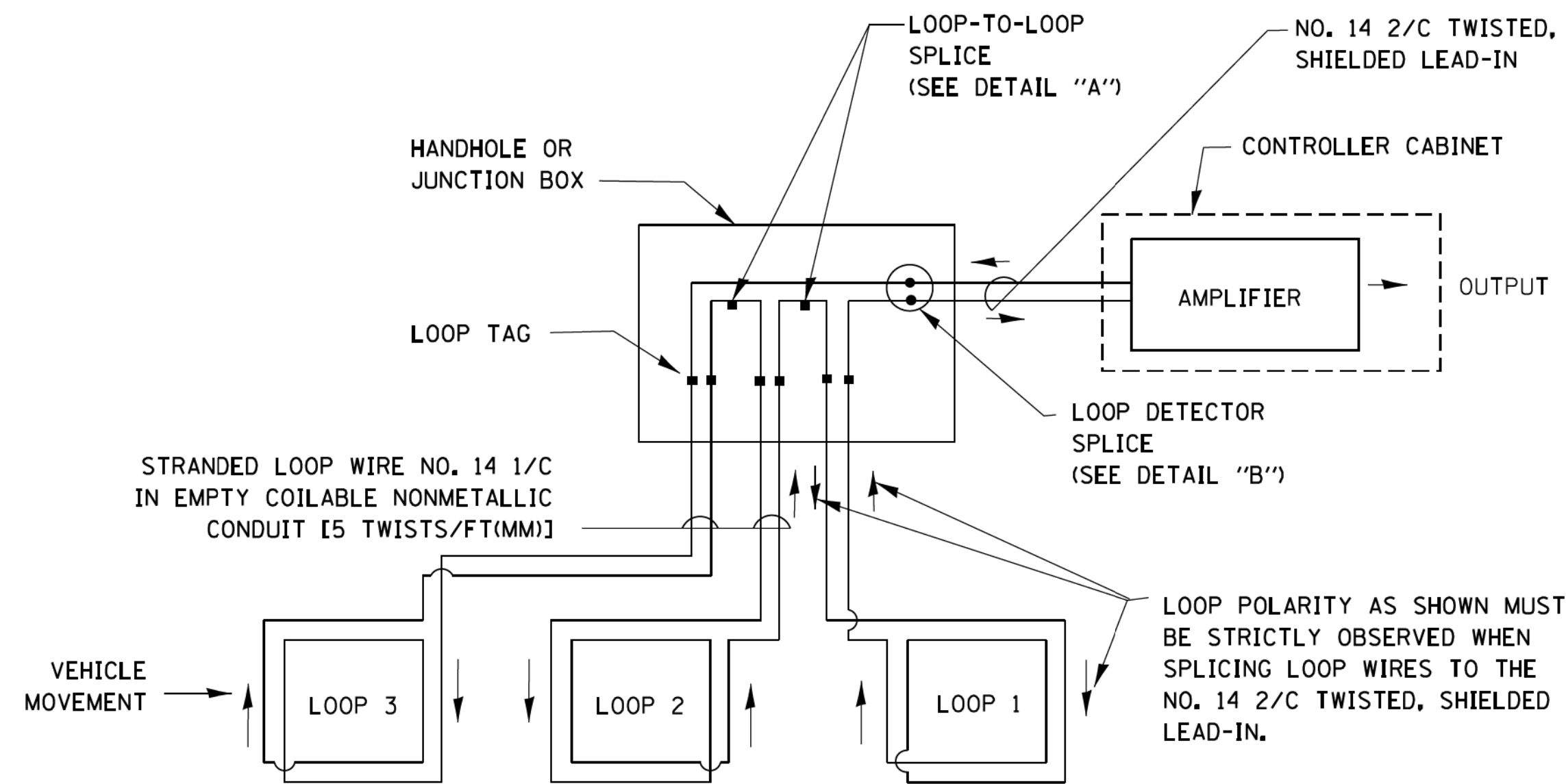
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 1 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	32
TS-05		CONTRACT NO. 61F45		
ILLINOIS FED. AID PROJECT HILS(183)				

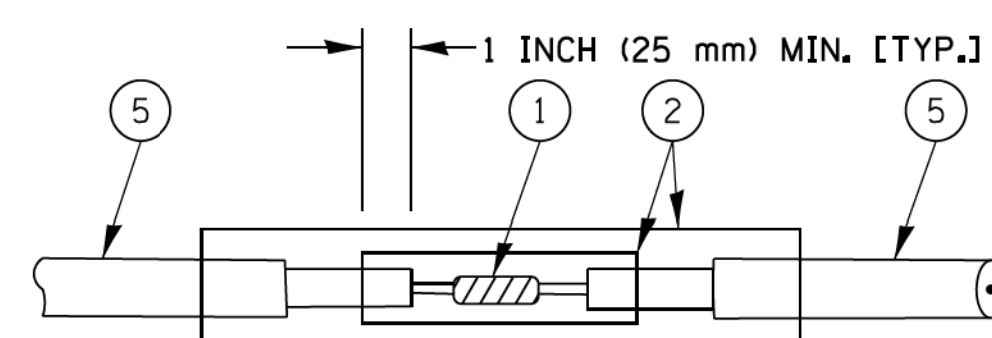
LOOP DETECTOR NOTES

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

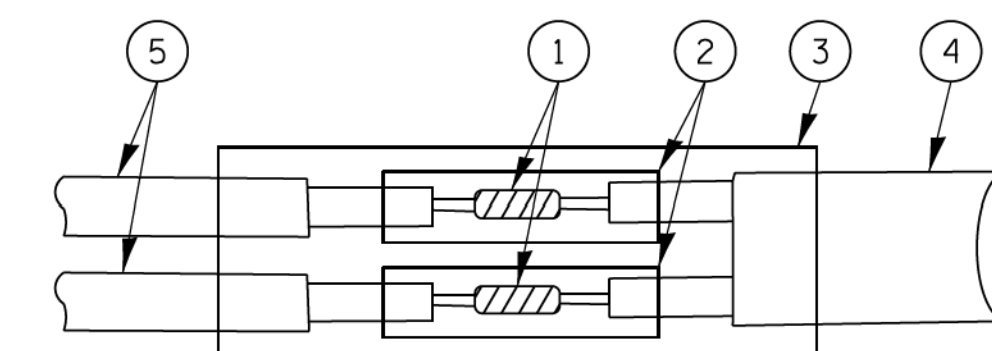


DETECTOR LOOP WIRING SCHEMATIC

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

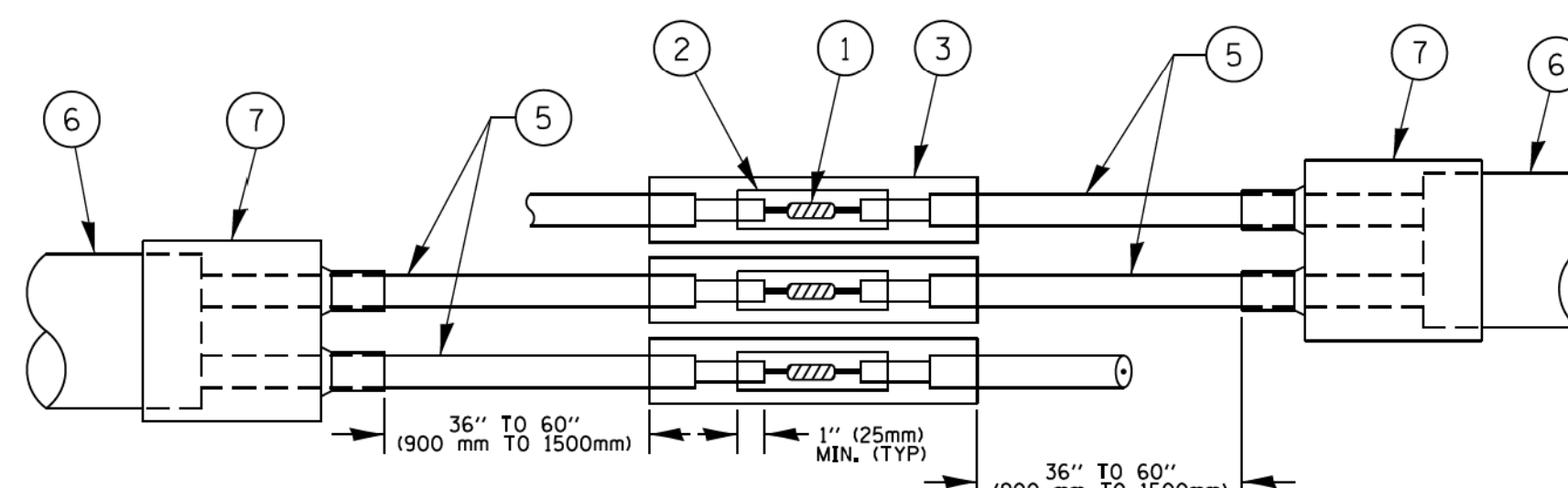


DETAIL "A"
LOOP-TO-LOOP SPLICE

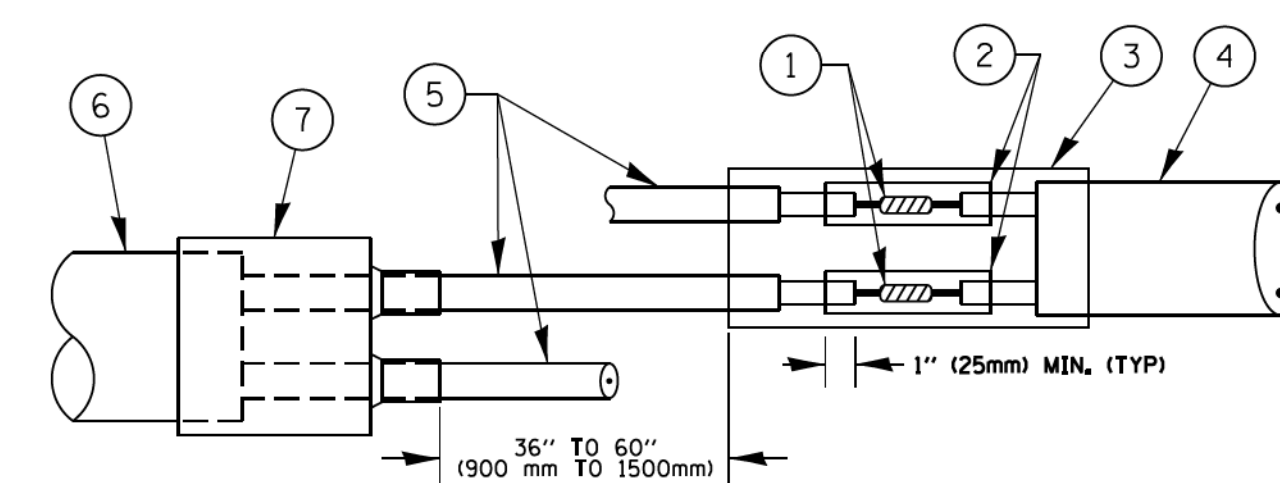


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



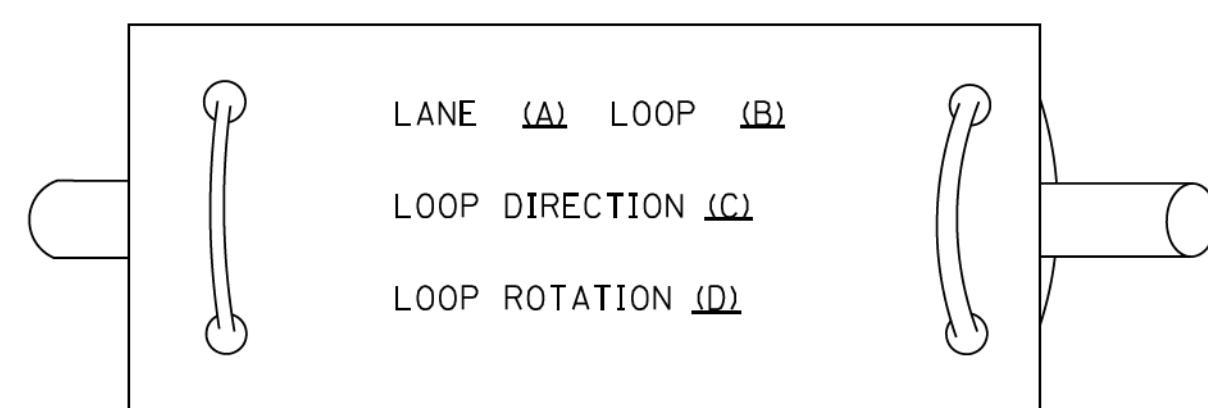
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

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

LOOP LEAD-IN CABLE TAG



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

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 FILE NAME: I:\Crystal Lake\KANCHI\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_D1 DETAILS - TS.dgn
 FILE NAME: I:\Crystal Lake\KANCHI\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_D1 DETAILS - TS.dgn
 FILE NAME: I:\Crystal Lake\KANCHI\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_D1 DETAILS - TS.dgn

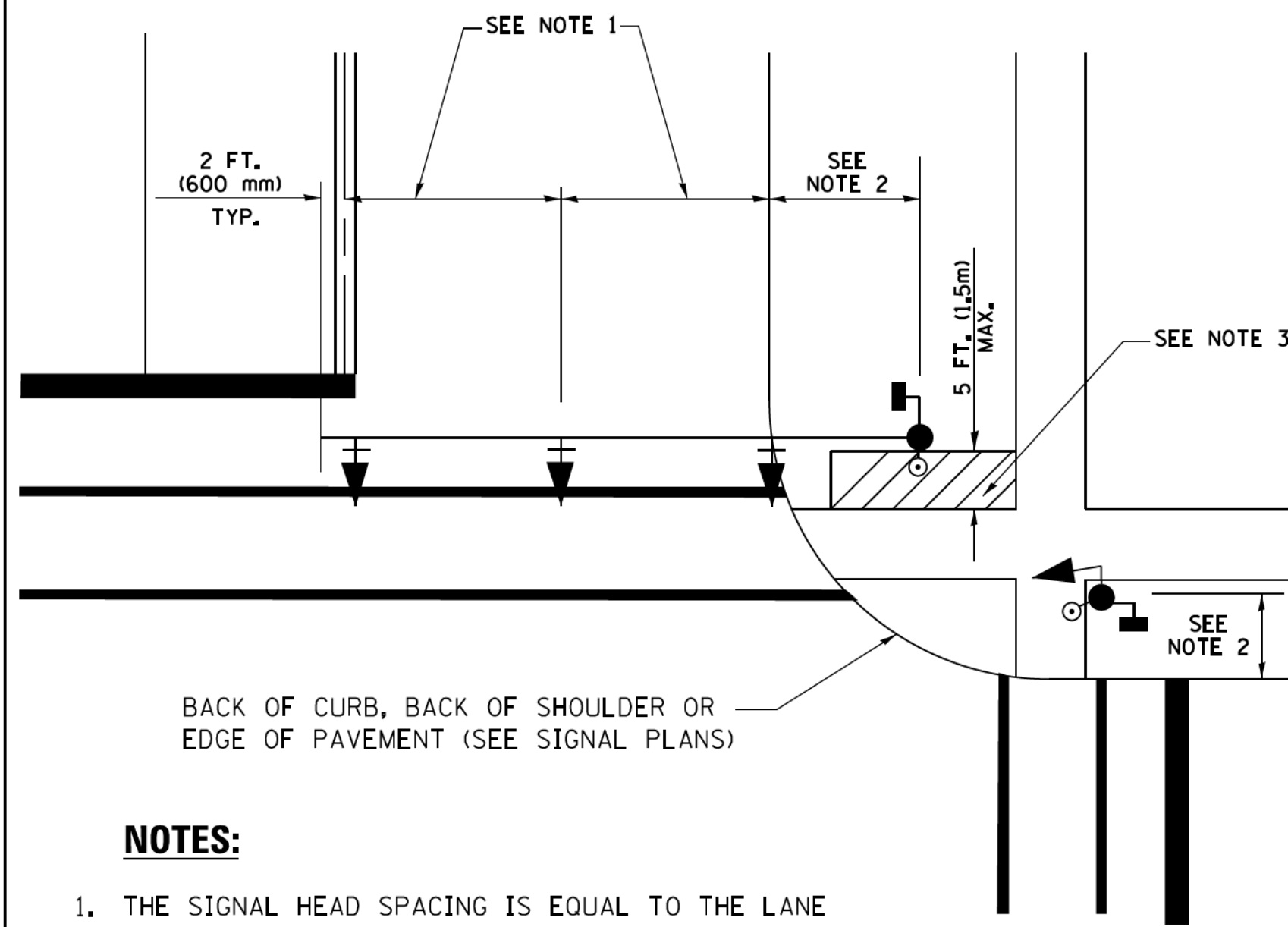
FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ca:\pwwork\pwwork\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
PLOT SCALE = 50.0000 // 1in.		CHECKED - DAD	REVISED -
PLOT DATE = 1/13/2014		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
SCALE: NONE	SHEET NO. 2 OF 7 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	33
TS-05		CONTRACT NO. 61F45		
<small>FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HILS(183)</small>				

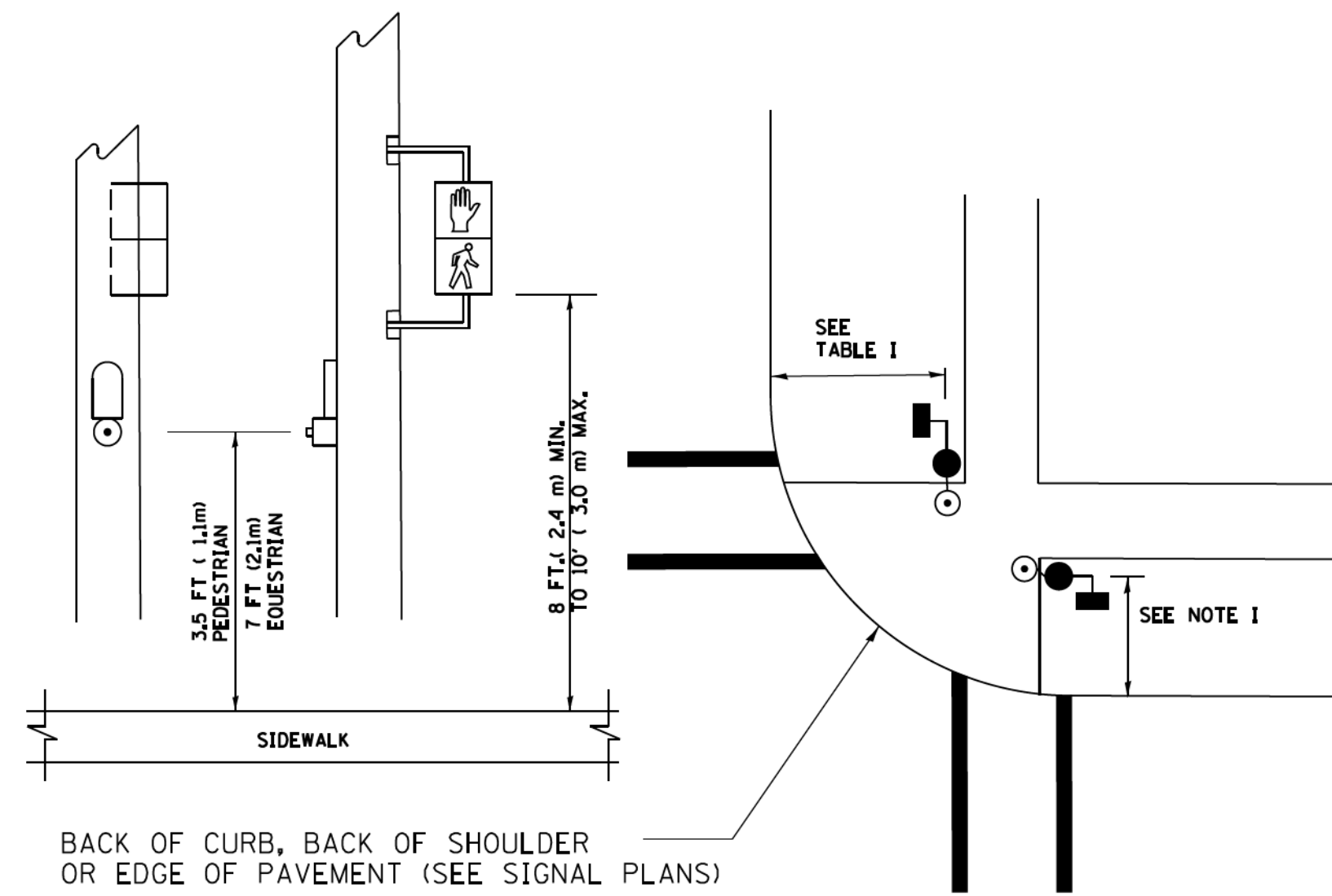
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

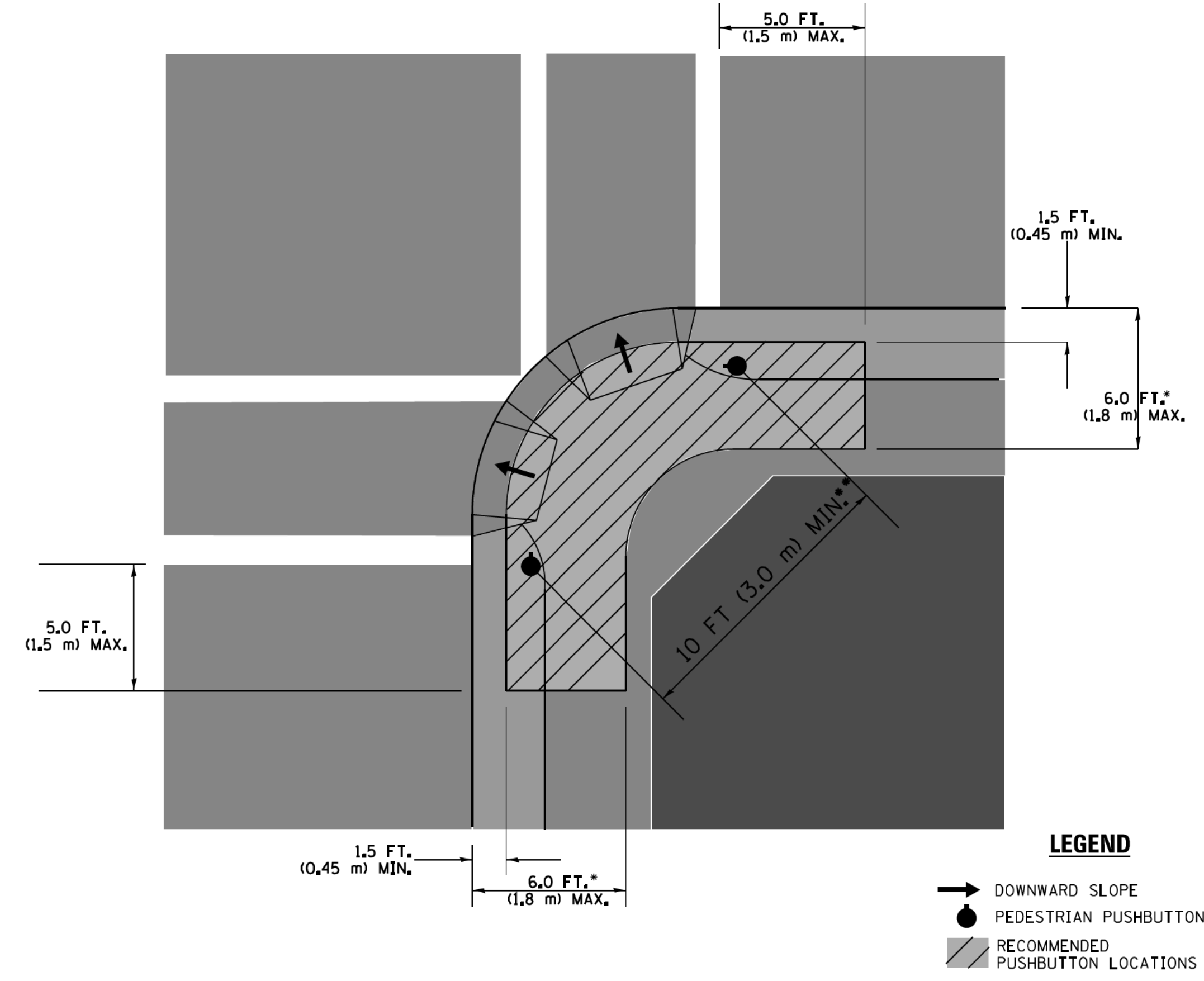
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets\PH2\160541SHT_D1_DETAILS - TS.dgn
 FILE DATE: 12/17/2018 4:06:17 PM
 FILE PATH: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets\PH2\160541SHT_D1_DETAILS - TS.dgn

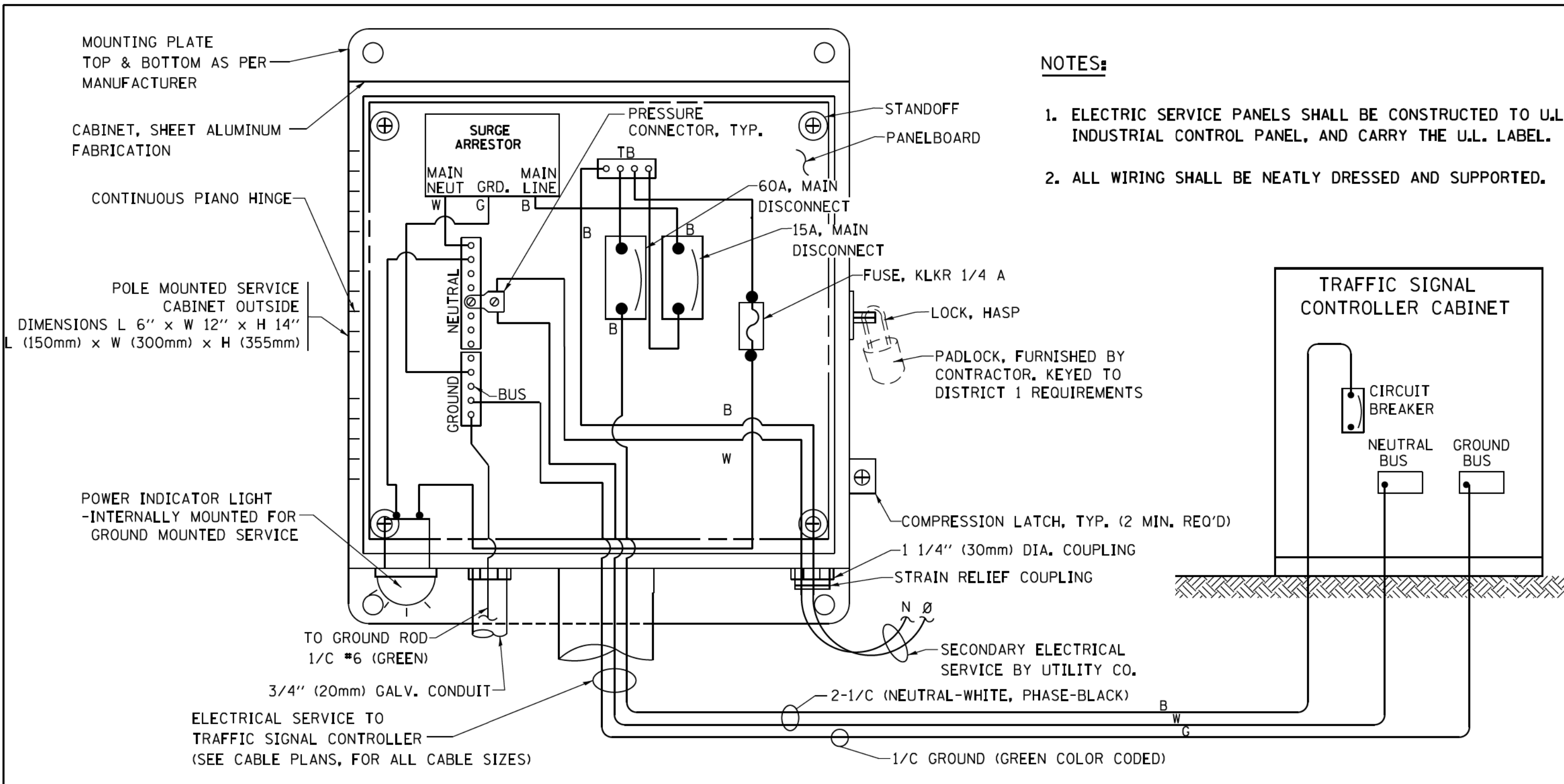
FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ca\pwwork\pwwork\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

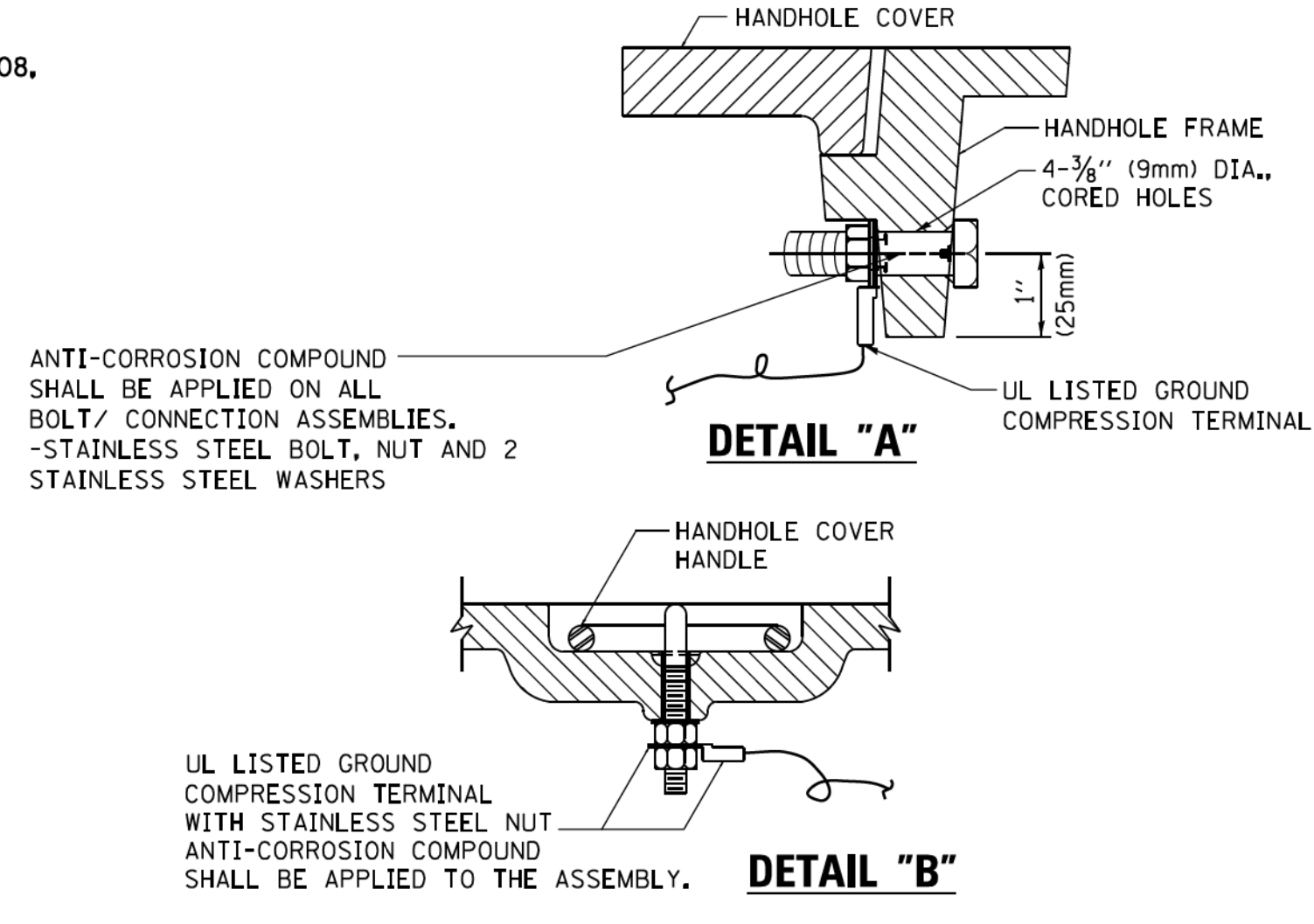
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 3 OF 7 SHEETS STA. TO STA.

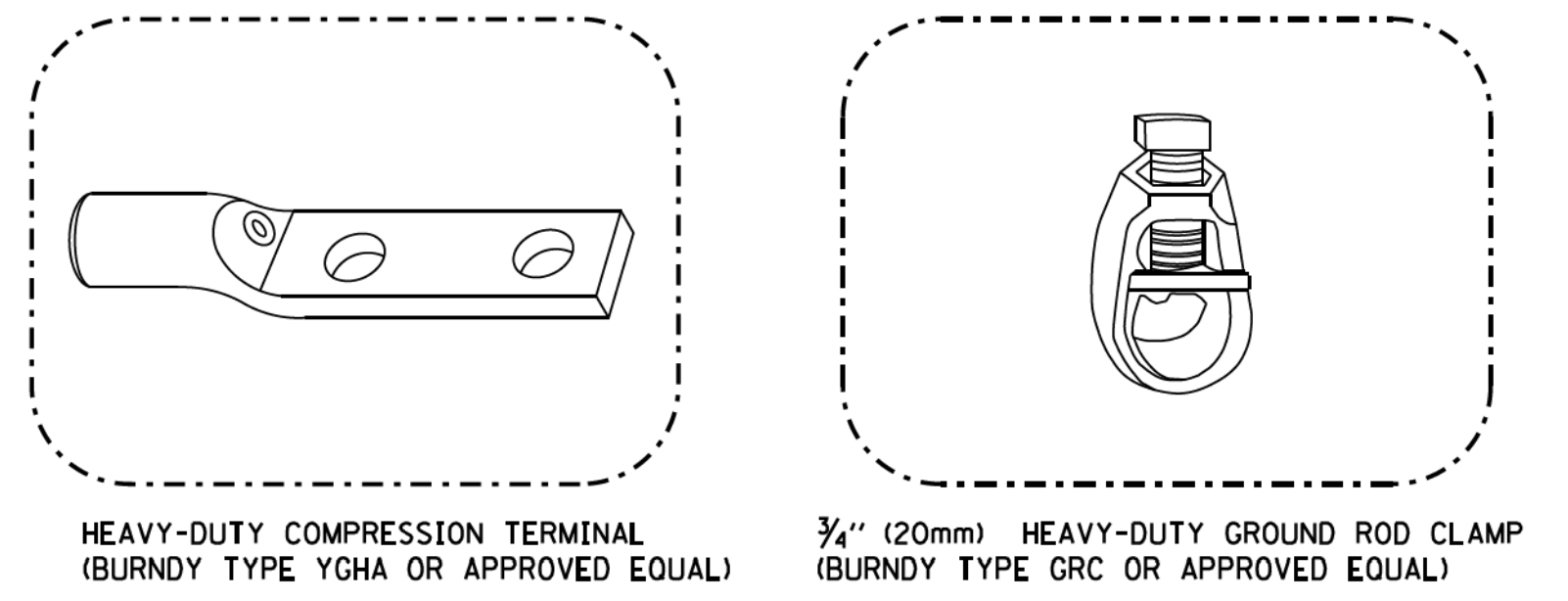
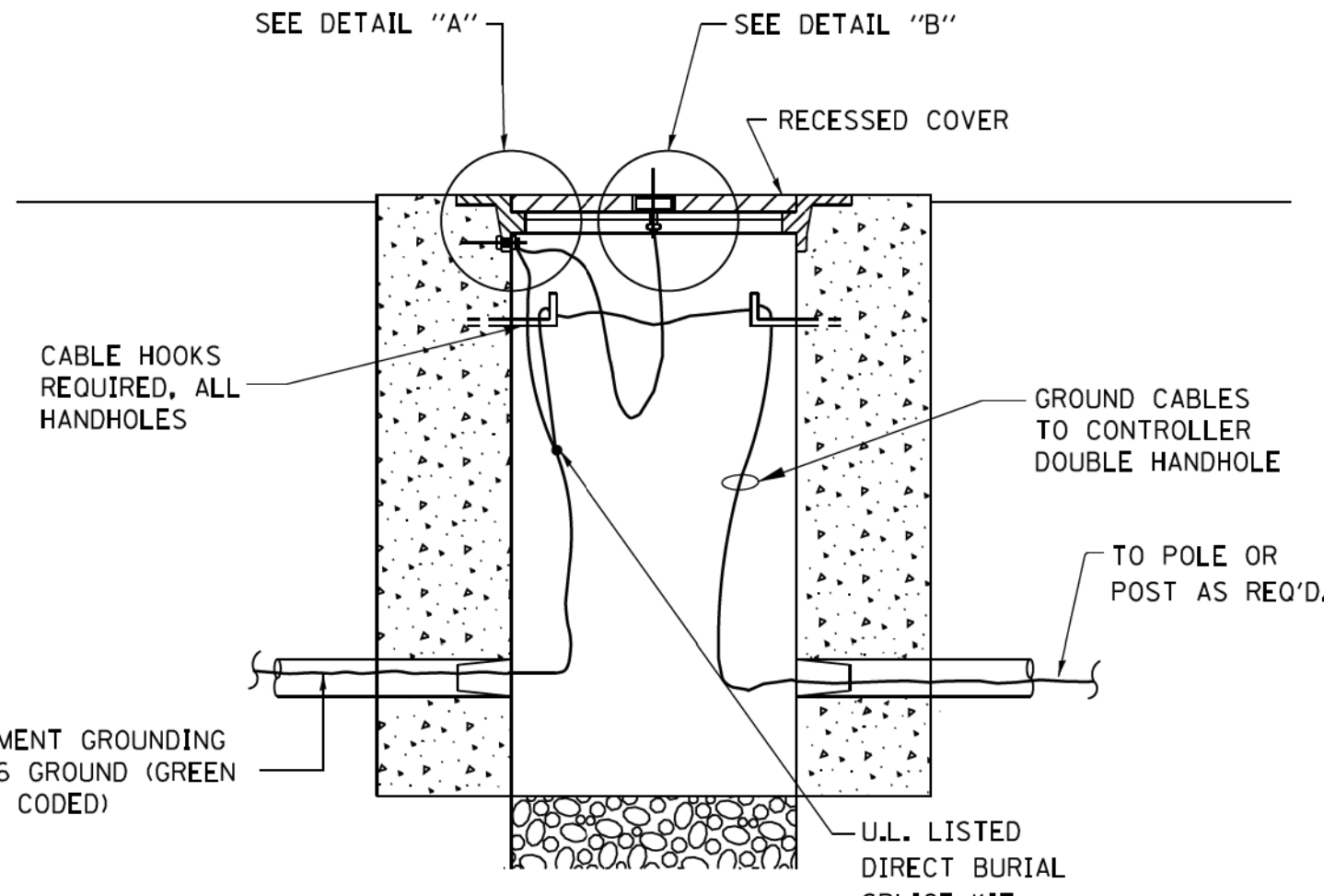
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	34
TS-05		CONTRACT NO. 61F45		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HILS(183)				



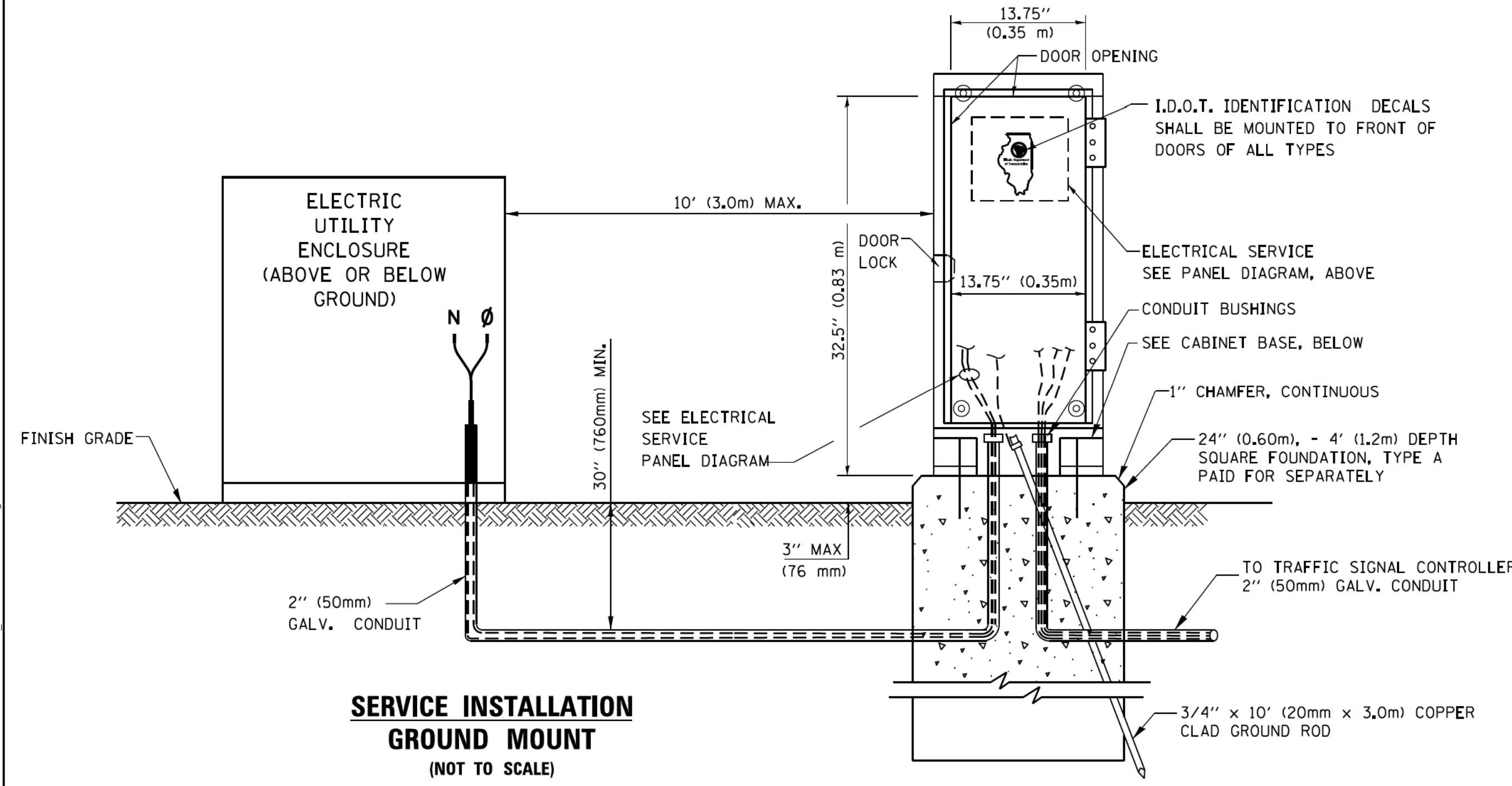
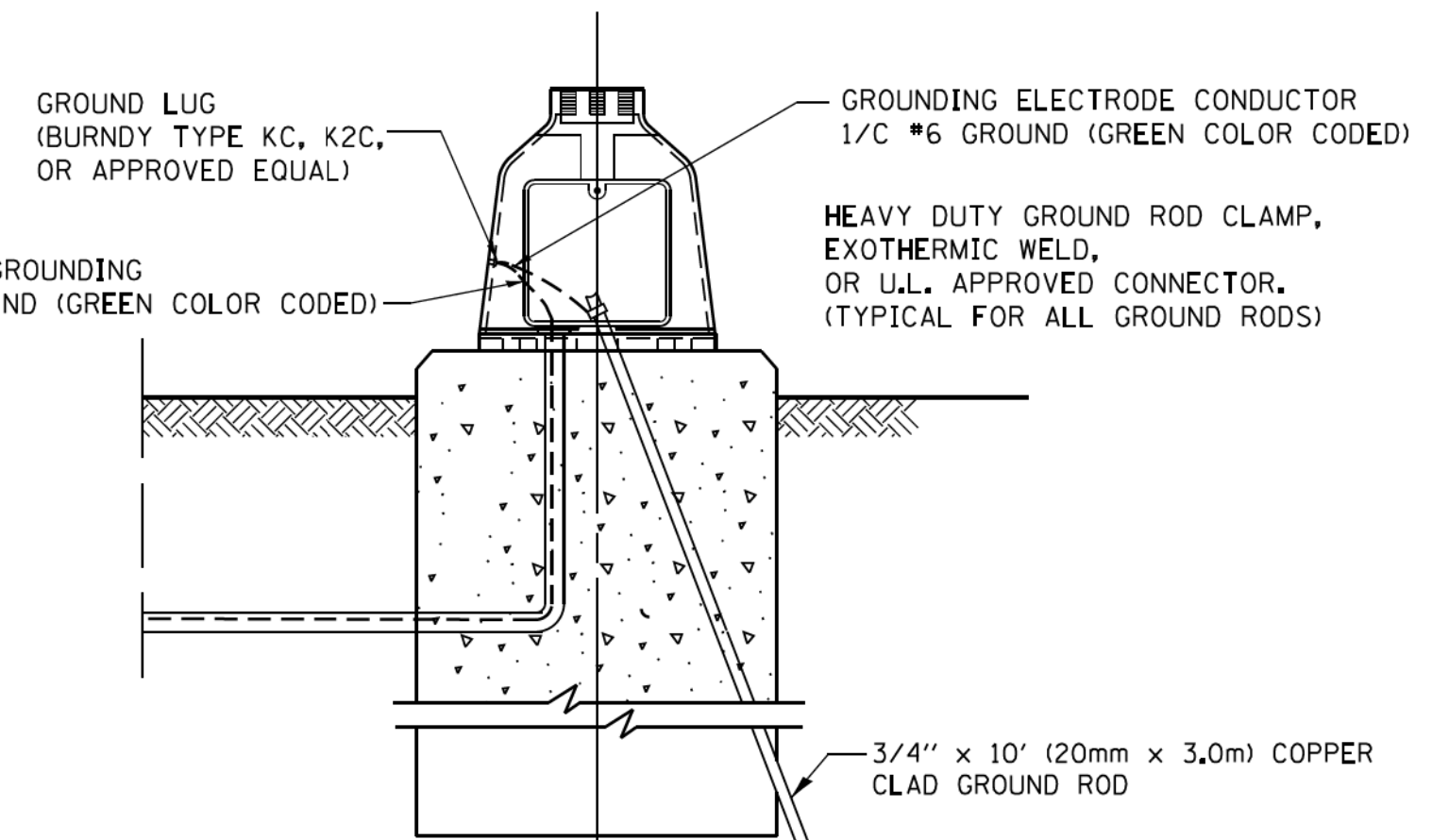
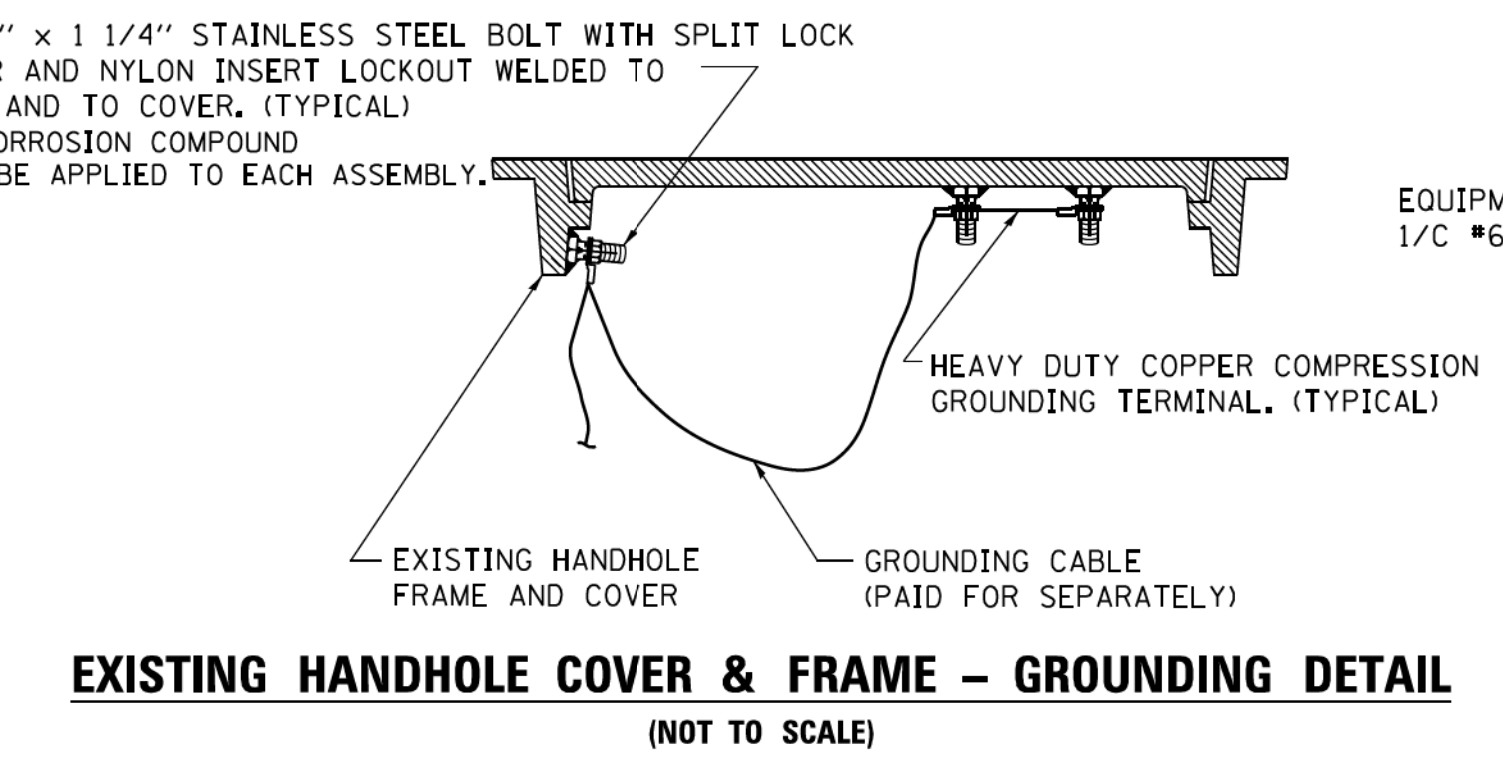
ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)



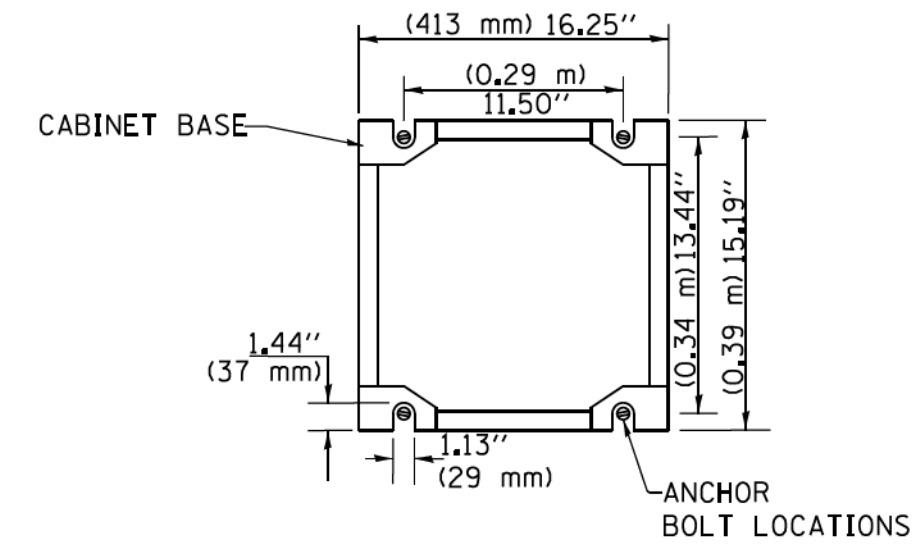
- NOTES:**
- GROUNDING SYSTEM**
- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
 - THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
 - ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
 - THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES. 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES. 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



CABINET – BASE BOLT PATTERN (NOT TO SCALE)



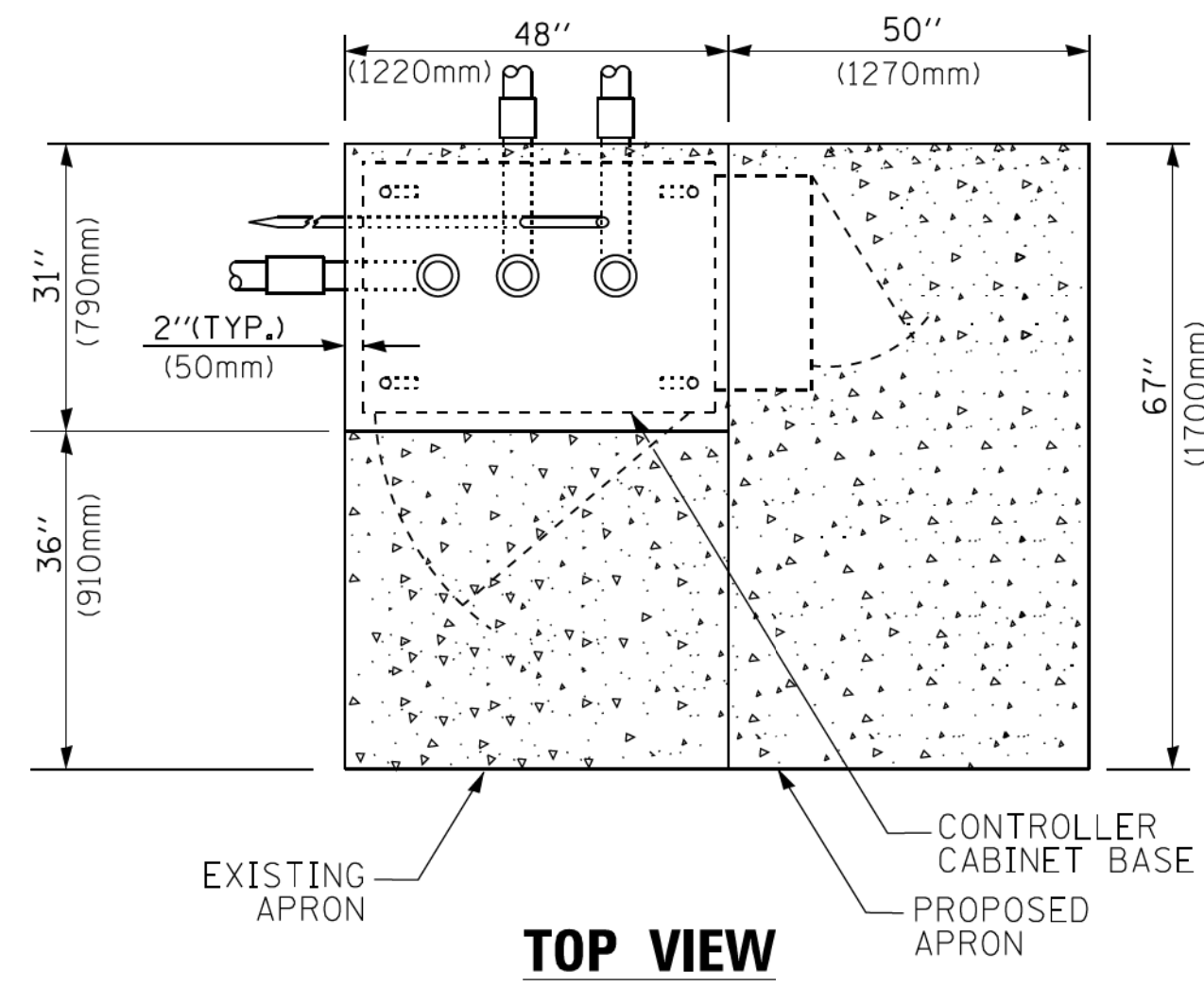
STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7058KS
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541-SHT_D1 DETAILS - TS.dgn
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541-SHT_D1 DETAILS - TS.dgn

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ca:\pw\work\p\sdot\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

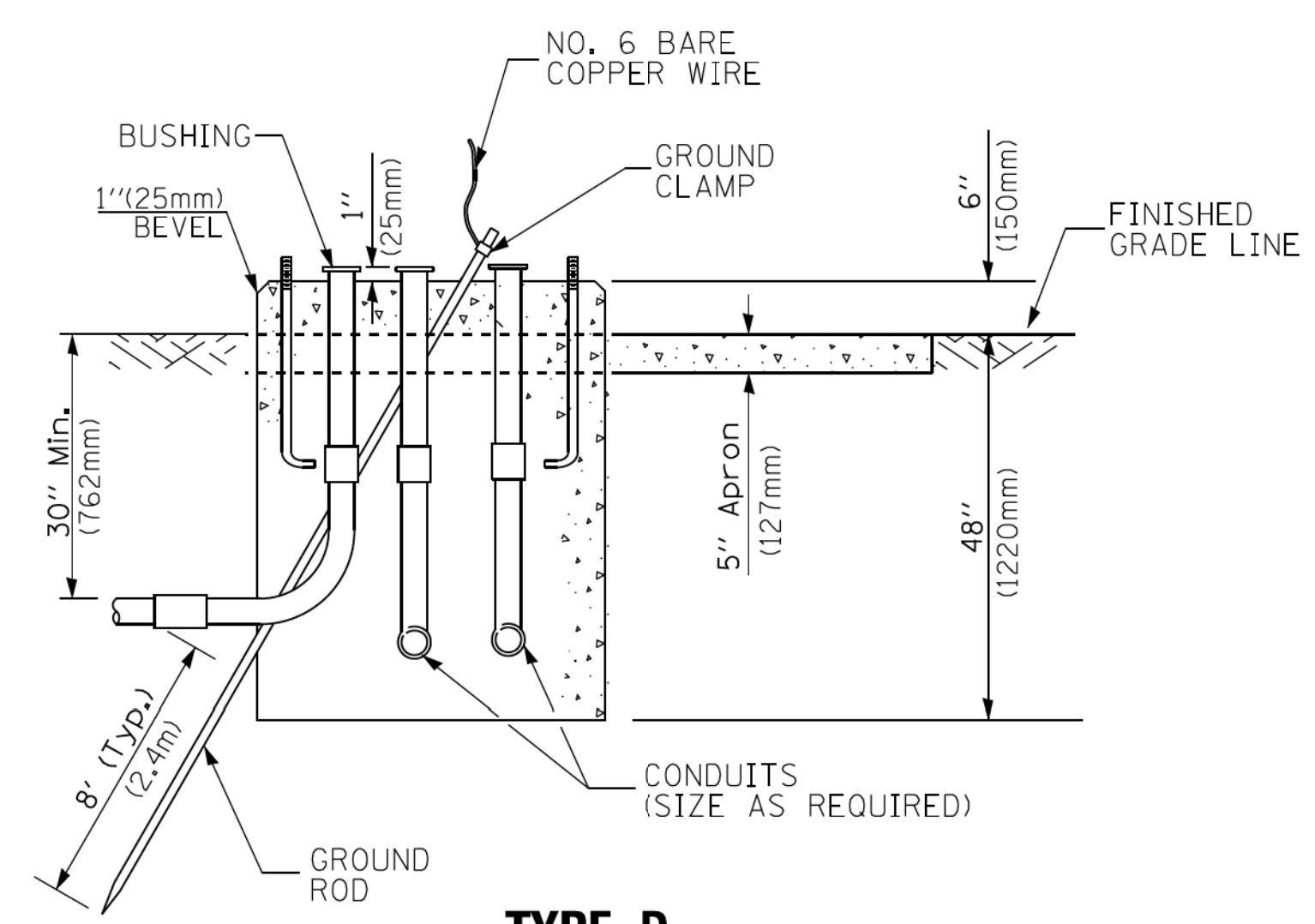
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	
SCALE: NONE	SHEET NO. 4 OF 7 SHEETS
STA.	TO STA.

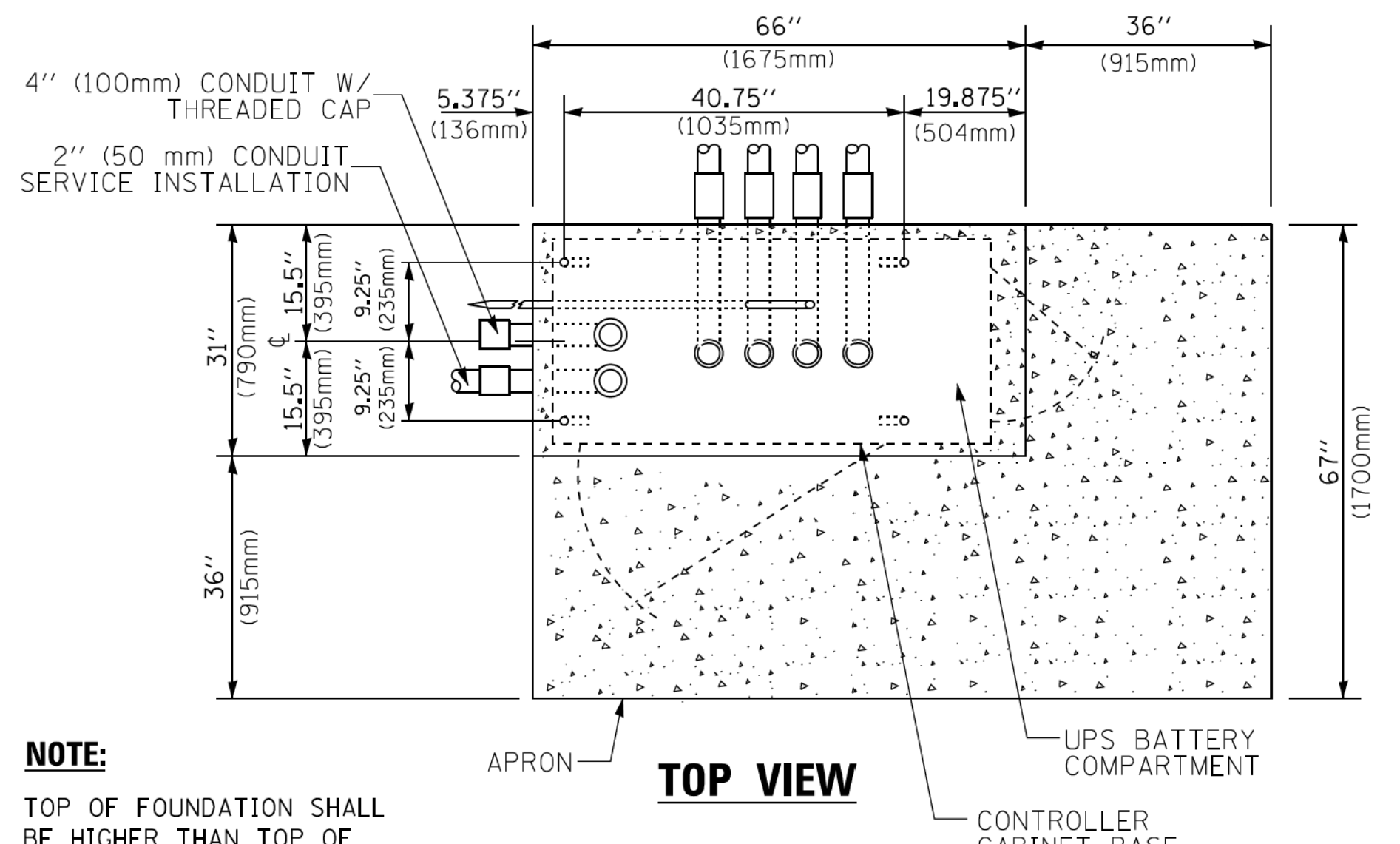
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	35
TS-05		CONTRACT NO. 61F45		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HILS(183)				



TOP VIEW

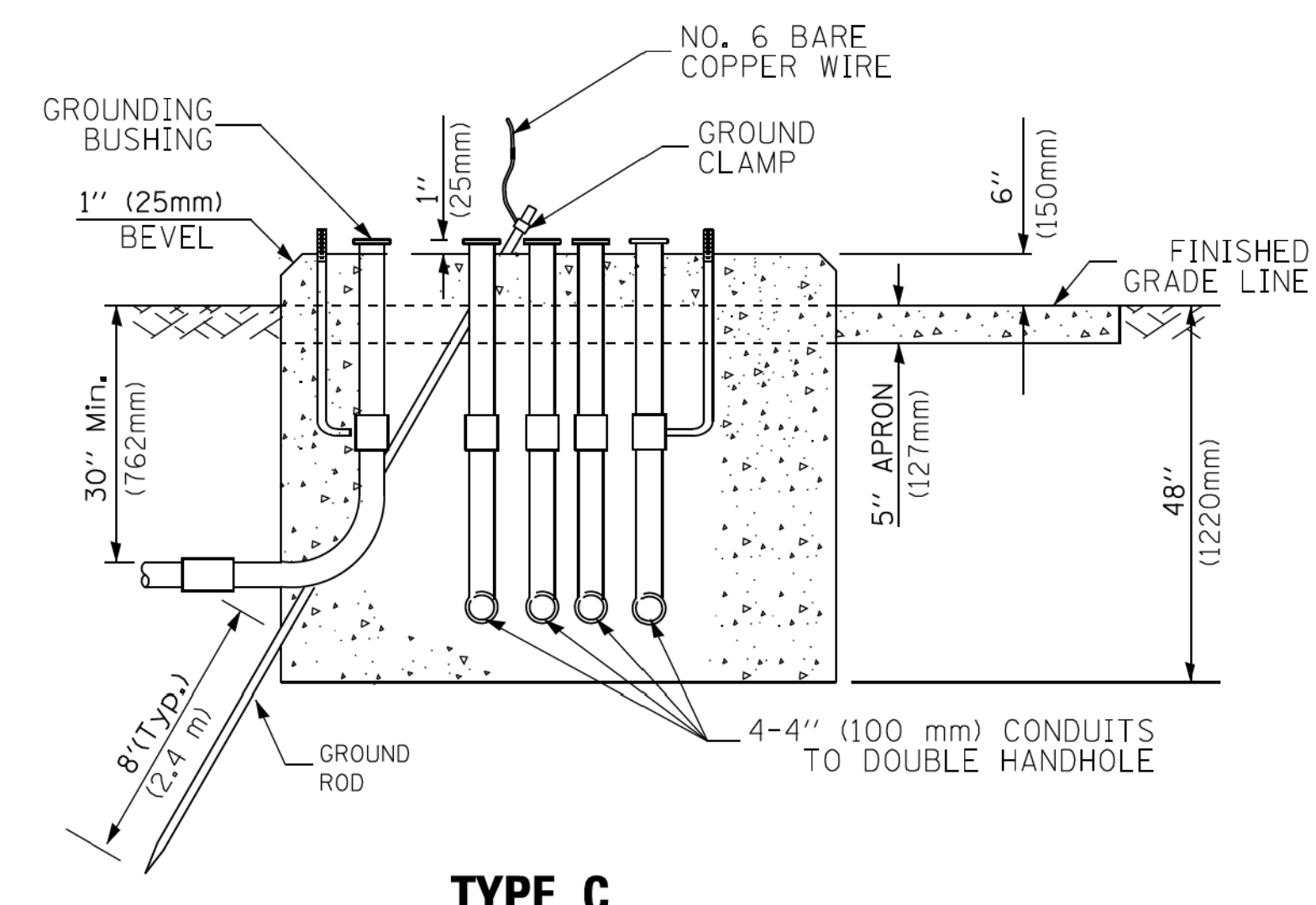


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

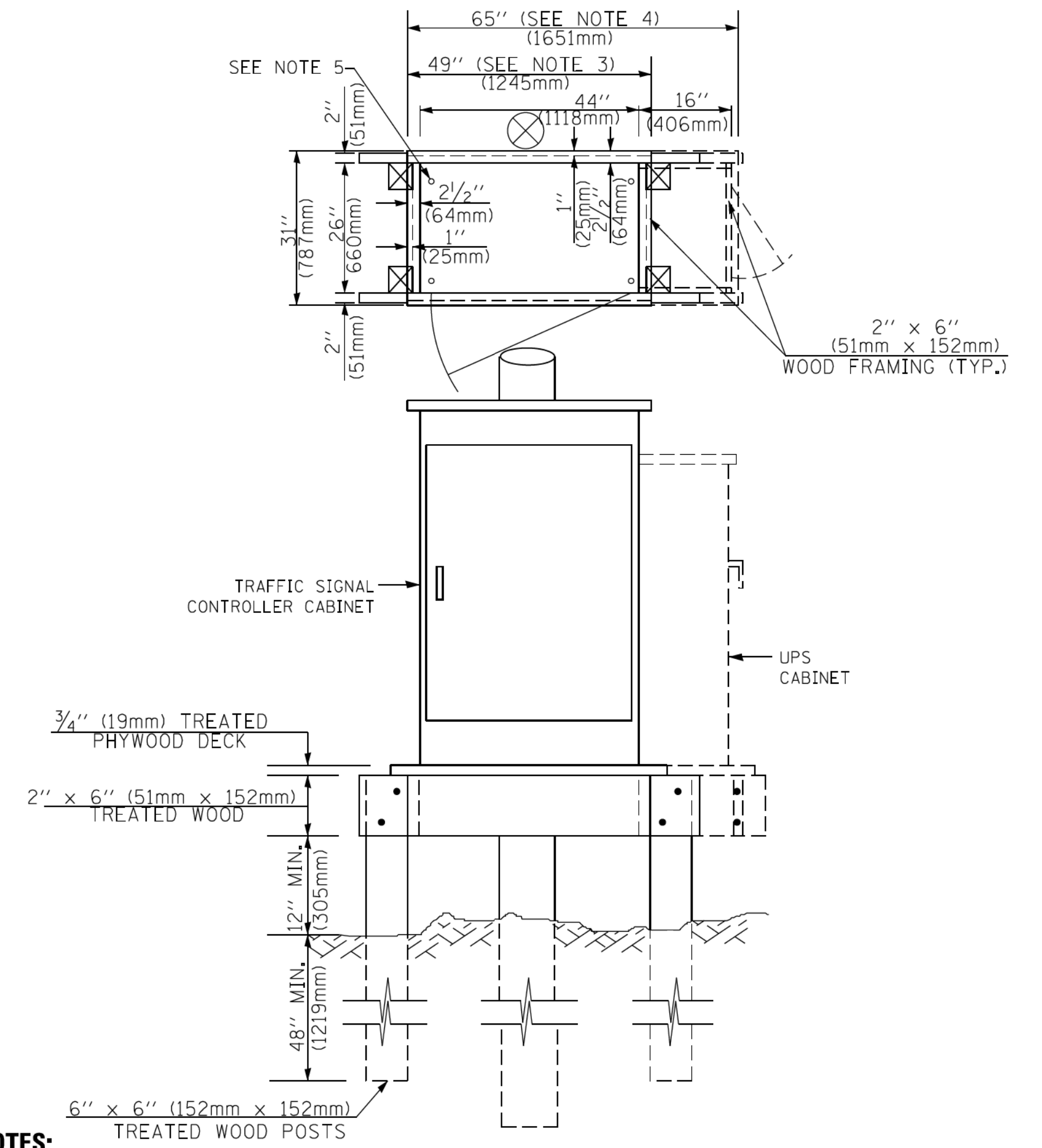


TOP VIEW

NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

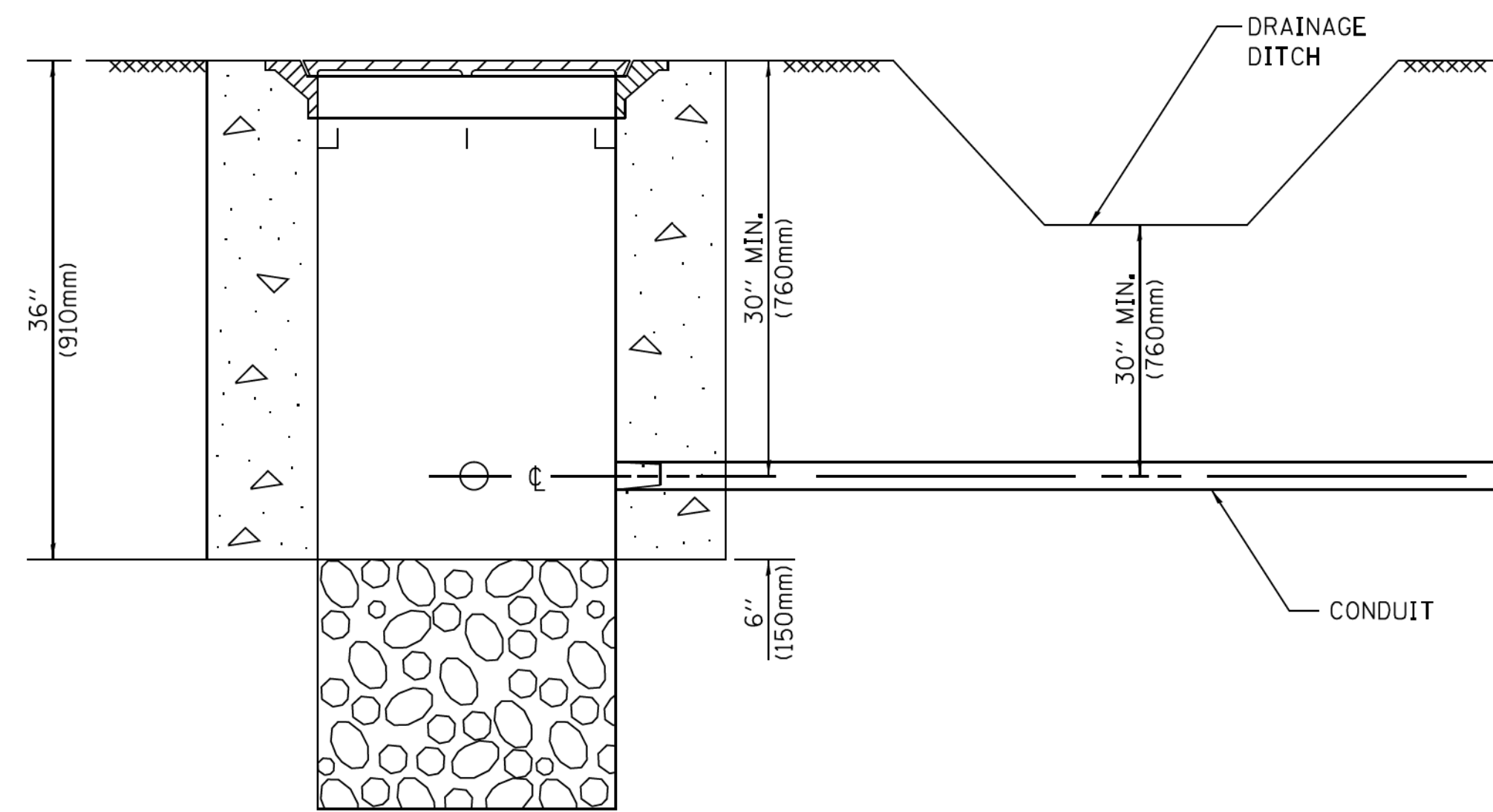
NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average unconfined compressive strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7052KLS 12/17/2018 4:06:49 PM
 FILE NAME = I:\Crystal Lake\KANCHE\PH2\160541SHT_D1_DETAILS - TS.dgn
 FILE NAME = I:\Crystal Lake\KANCHE\PH2\160541SHT_D1_DETAILS - TS.dgn
 ...:\p\dtdrv\p\d\Bw_Default.plt
 ...:\CADD\PH2\160541_PEN.tbl
 I:\Crystal Lake\KANCHE\PH2\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_D1_DETAILS - TS.dgn

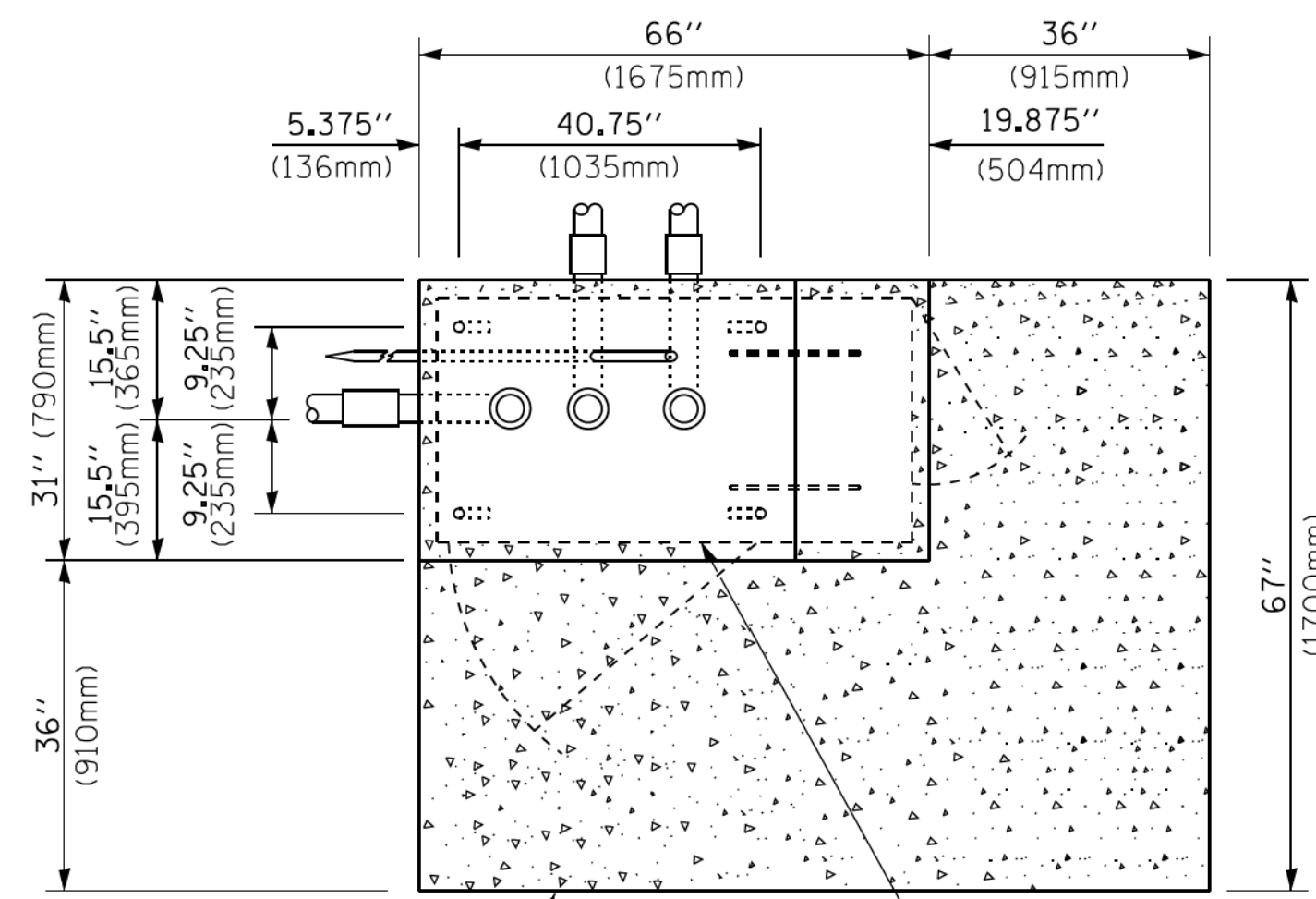
FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.P. RTE. 526	SECTION 16-00115-02-BR	COUNTY KANE	TOTAL SHEETS 81	SHEET NO. 36	
ca:\p\work\p\dot\footemj\d0108315\ts05.pgn	DRAWN - BCK	CHECKED - DAD	REVISED -			SCALE: NONE	SHEET NO. 5 OF 7 SHEETS	STA. TO STA.	TS-05		CONTRACT NO. 61F45
PLOT SCALE = 50.0000' / 1"	DATE - 10-28-09	REVISI	REVISI			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HILS(183)					
PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISI	REVISI								



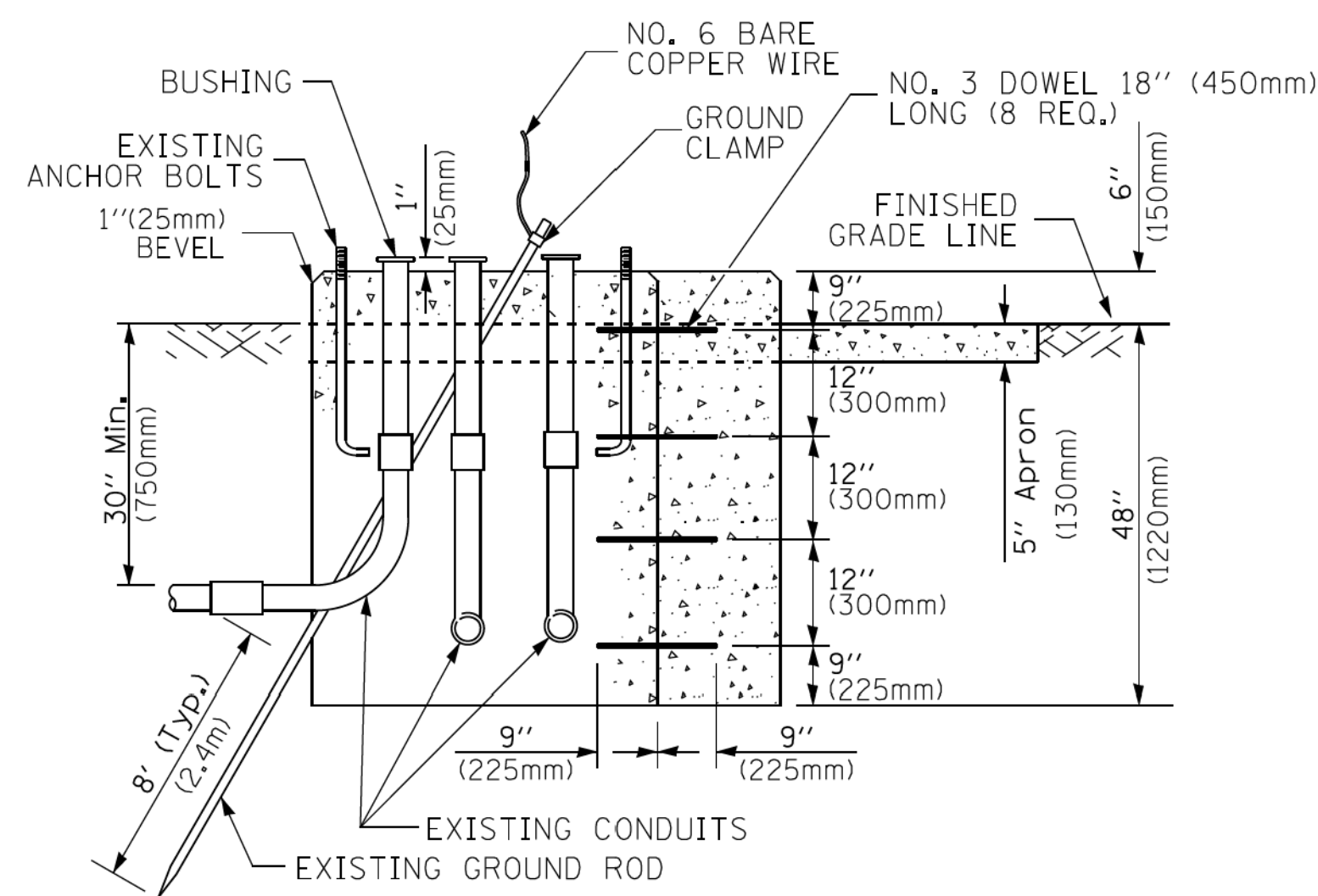
NOTES:

- CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
- THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
- THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



TOP VIEW
(NOT TO SCALE)

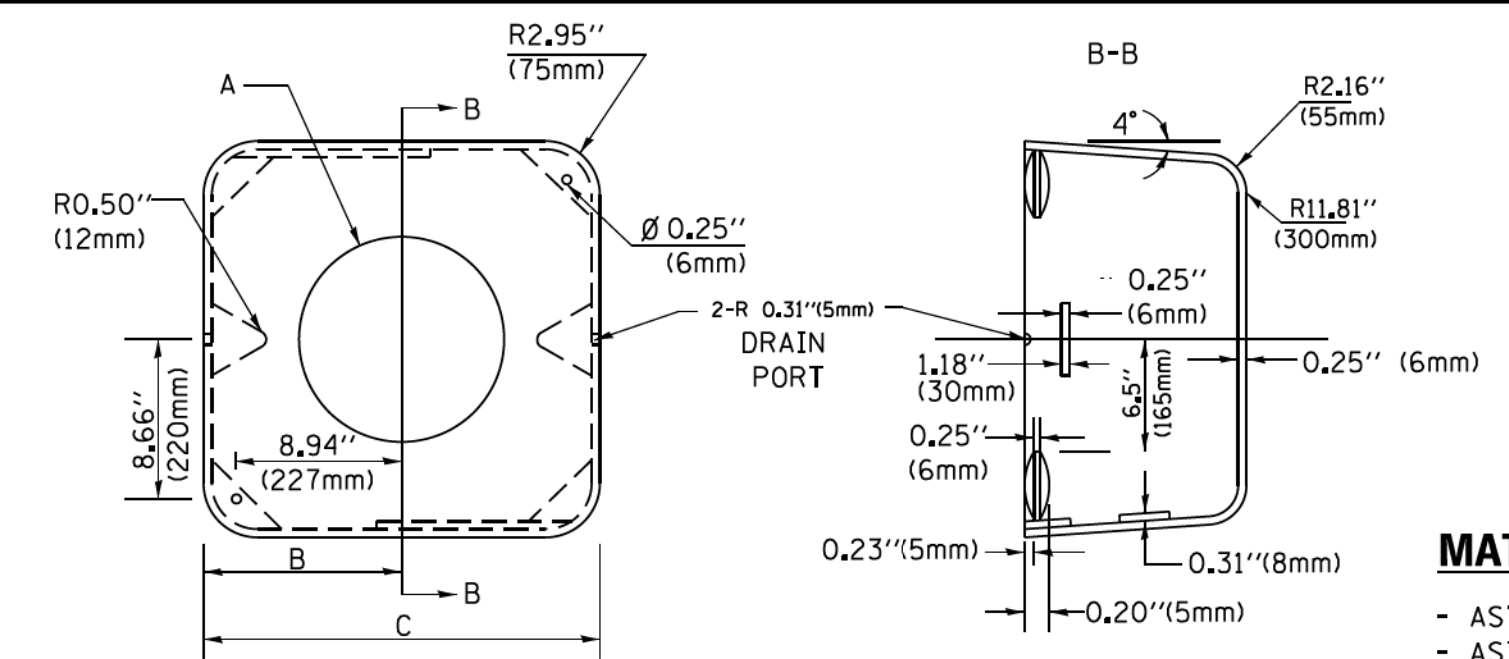


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
- ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

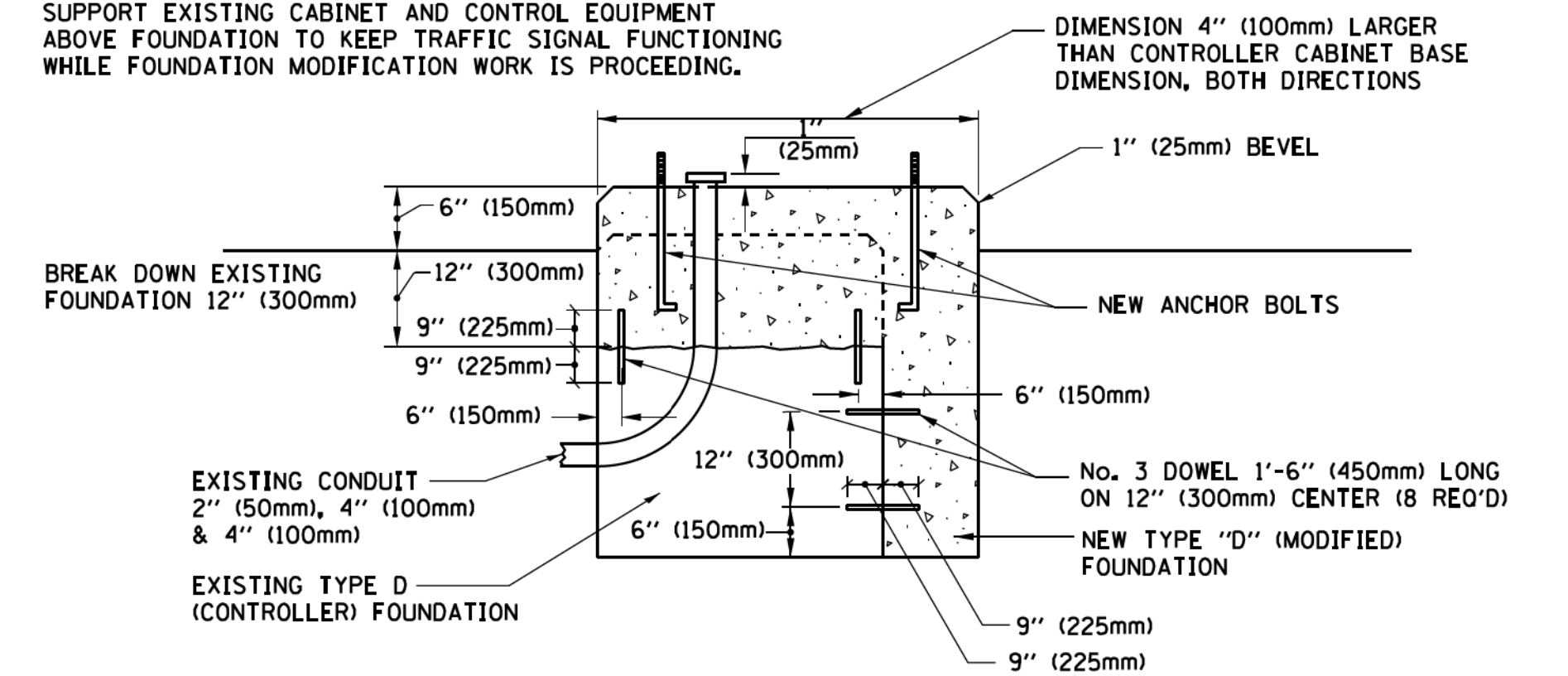
SHROUD

NOTES:

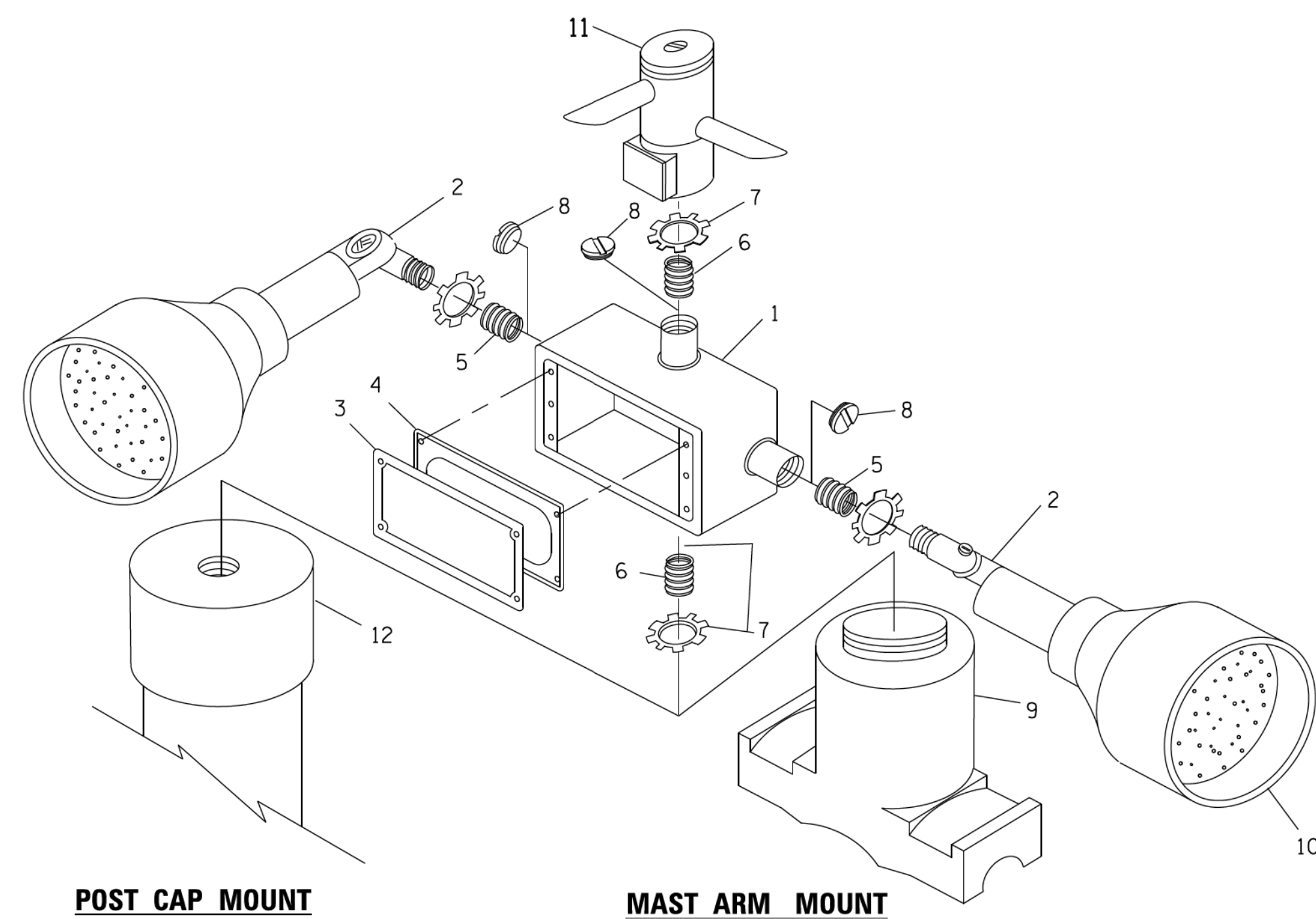
- DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
- THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

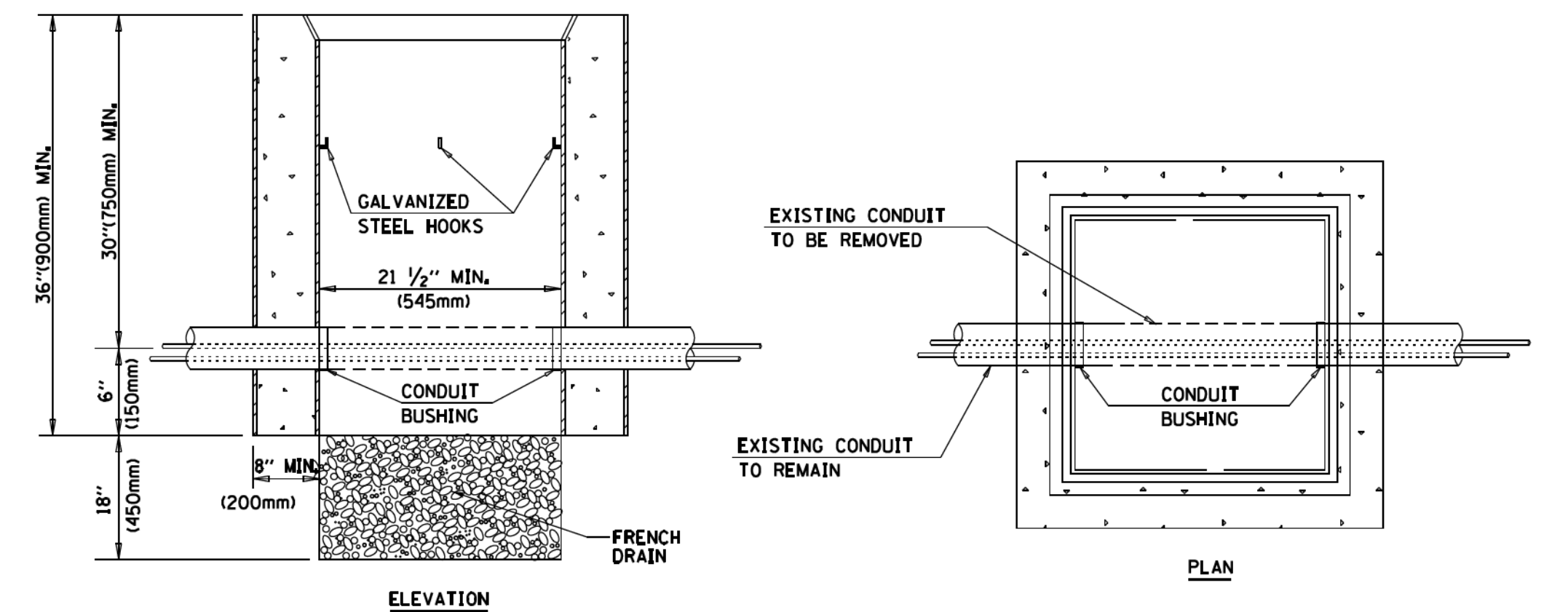
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



NOTES:

- HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
7058KS
FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets\PH2\160541-SHT_D1 DETAILS - TS.dgn
...:\p\cd\p\pdf\BW_Default.plt
...:\CADD\Polis\160541_PEN.tbl
I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets\PH2\160541-SHT_D1 DETAILS - TS.dgn

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ca\p\work\p\dot\footemj\d0180315\ts05.dgn		DRAWN - BCK	REVISED -
PLOT SCALE = 50.0000 / 1 in.		CHECKED - DAD	REVISED -
PLOT DATE = 1/13/2014		DATE - 10-28-09	REVISED -

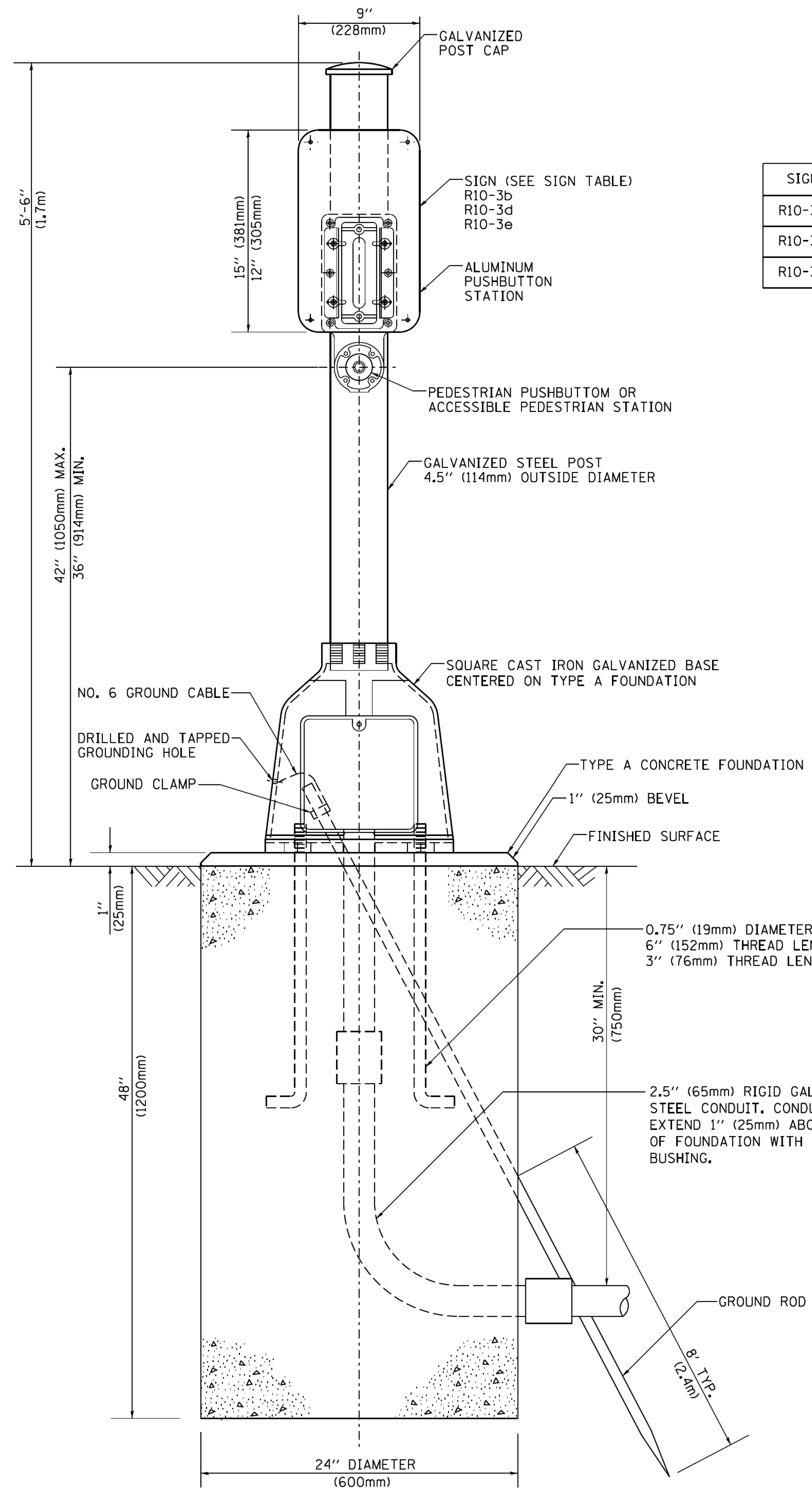
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.

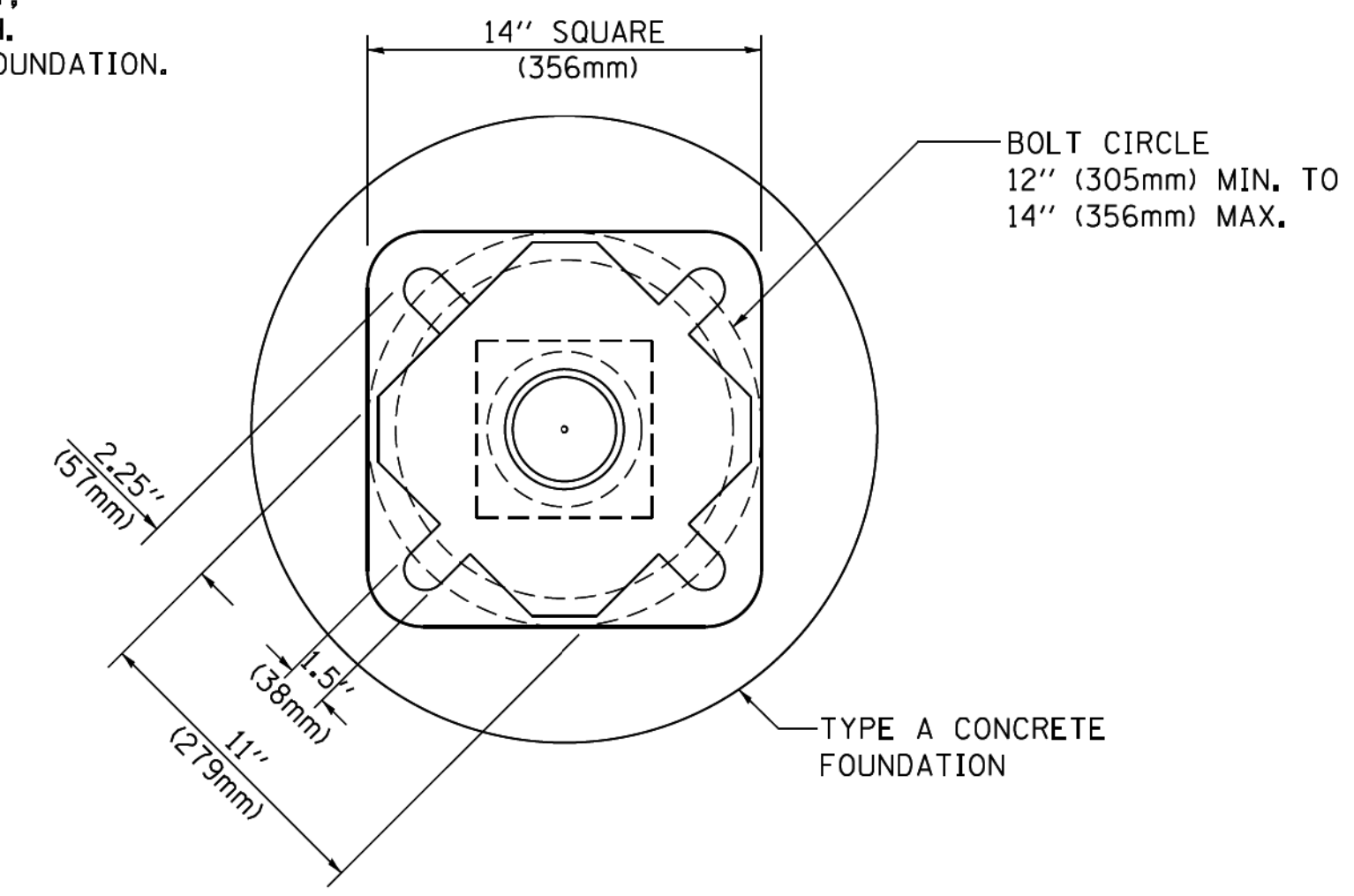
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	37
TS-05		CONTRACT NO. 61F45		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HILS(183)				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7058KS
 12/17/2018 4:07:22 PM
 I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541-SHT_D1 DETAILS - TS.dgn



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



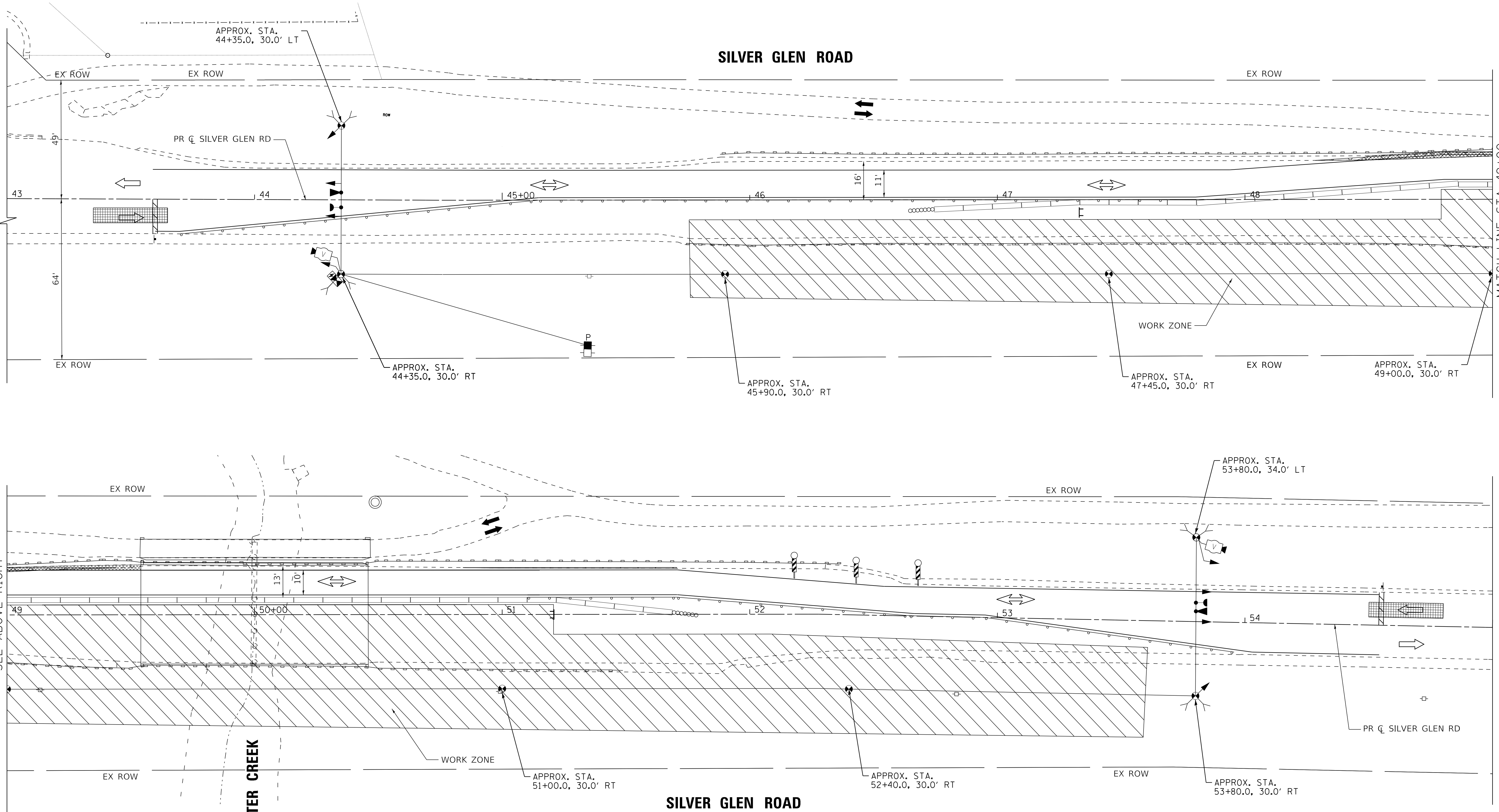
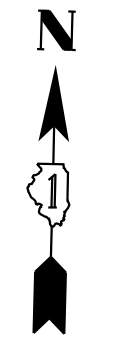
BOLT PATTERN
PEDESTRIAN PUSH BUTTON POST, TYPE A

FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
ca:\pwork\psidot\footemj\d0108315\ts05.dgn		DRAWN - GND	REVISED -
PLOT SCALE = 50.0000 / 1 in.		CHECKED - DAD	REVISED -
PLOT DATE = 1/13/2014		DATE - 10/1/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS
 SCALE: NONE SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	38
TS-05		CONTRACT NO. 61F45		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HILS(183)				



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7658AKS
 12/17/2018 4:07:42 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541SHT_TS-Temp-Stage1.dgn
 FILE PATH: I:\Crystal Lake\KANCHE\160541SHT_TS-Temp-Stage1.dgn
 ...:\p1cdrv\pdf\BW_Default.plt
 ...:\CADD\Plots\160541_PEN.plt
 I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_TS-Temp-Stage1.dgn

MATCH LINE STA 49+00
SEE ABOVE RIGHT

MATCH LINE STA 49+00
SEE BELOW LEFT



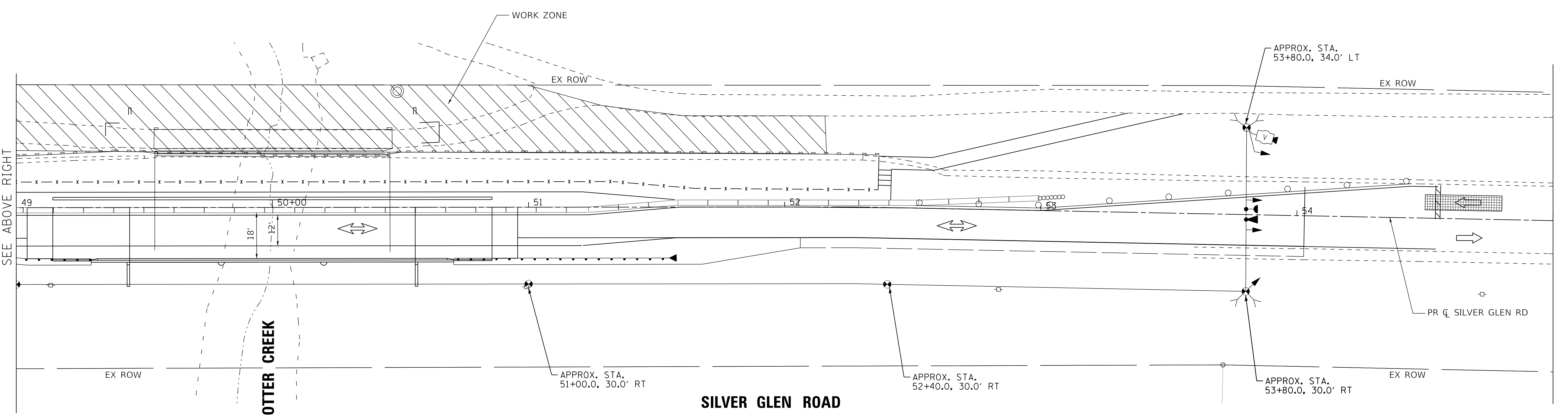
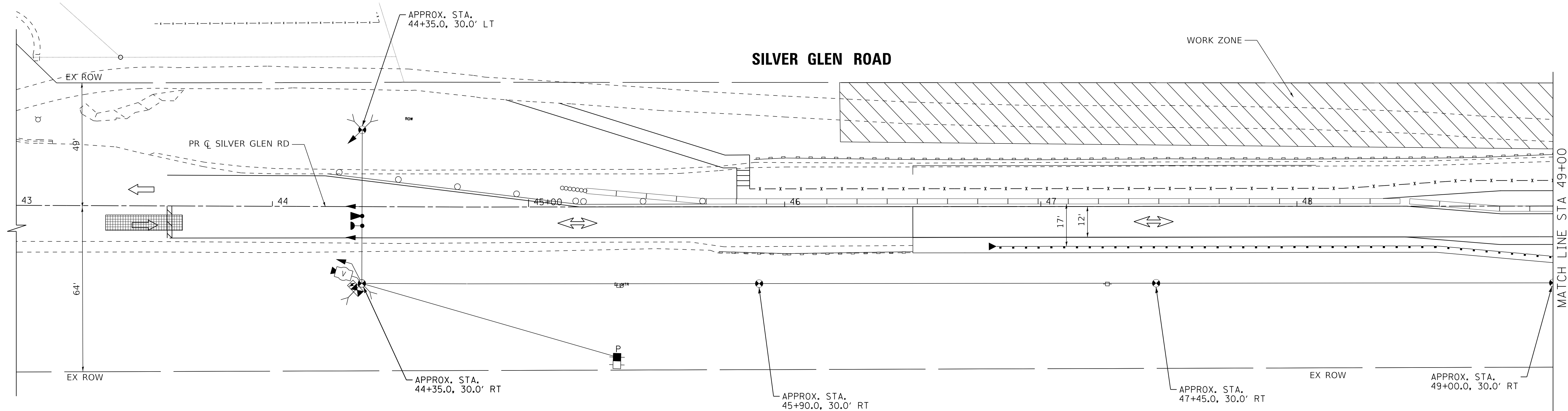
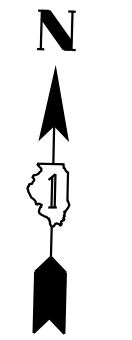
USER NAME = 765aks	DESIGNED - AKS	REVISED -
PLOT SCALE = 20.0000" / in.	DRAWN - CJC	REVISED -
PLOT DATE = 12/17/2018	CHECKED - DTH	REVISED -
	DATE - 11-26-18	FILE - 160541SHT_TS-Temp-Stage1.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
STAGE 1
SILVER GLEN ROAD**

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	39
ILLINOIS FED. AID PROJECT HILS(183)			CONTRACT NO. 61F45	



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7652AKS 12/17/2018 4:07:44 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_TS-Temp-Stage2A.dgn
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_TS-Temp-Stage2A.dgn



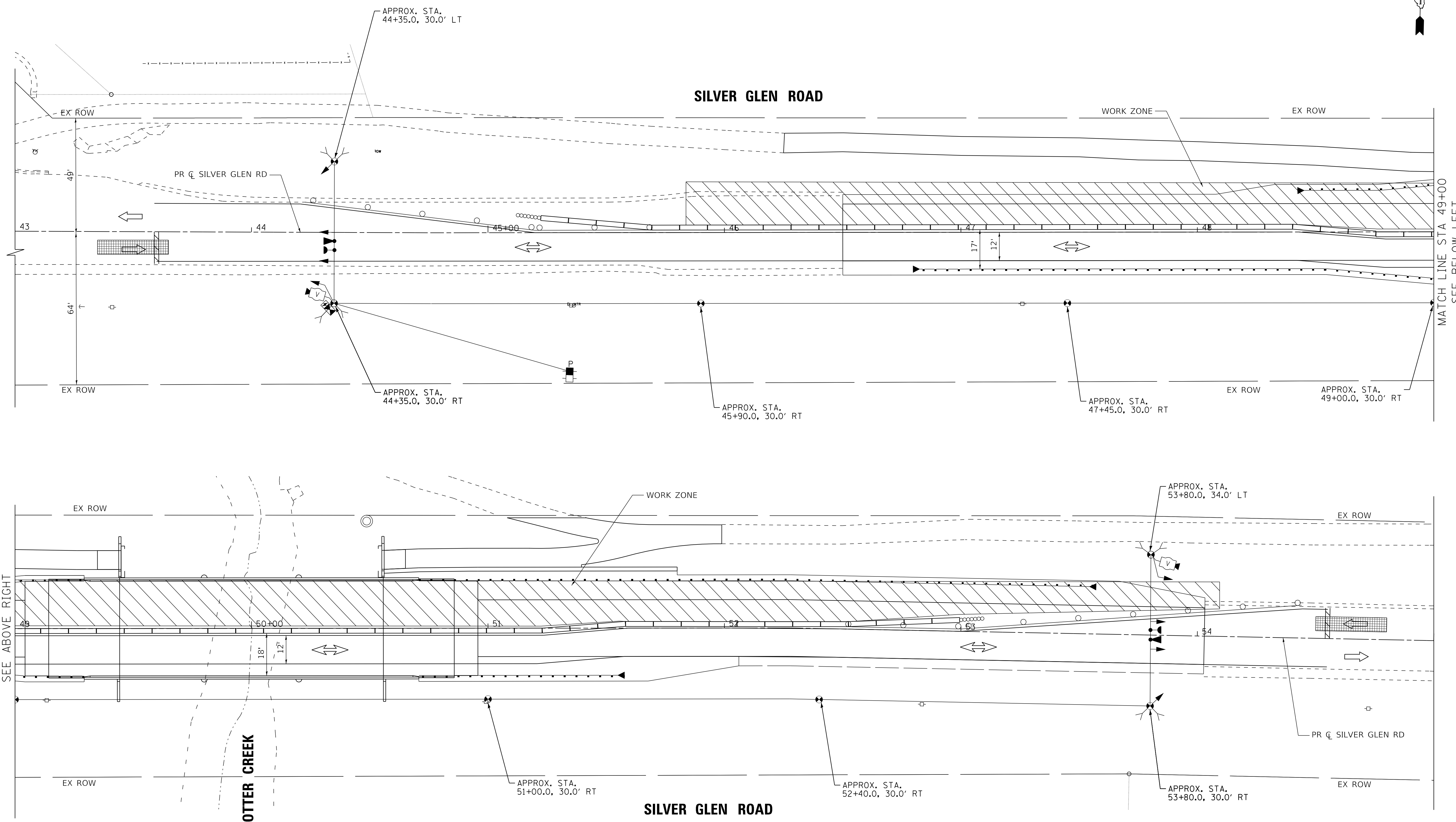
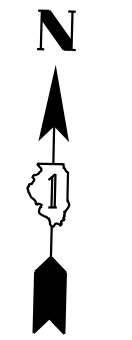
USER NAME = 765aks	DESIGNED - AKS	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - CJC	REVISED -
PLOT DATE = 12/17/2018	CHECKED - DTH	REVISED -
	DATE - 11-26-18	FILE - 160541SHT_TS-Temp-Stage2A.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
STAGE 2A
SILVER GLEN ROAD

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	40
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HILS(183)				



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7658AKS 12/17/2018 4:07:45 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541SHT_TS-Temp-Stage2B.dgn
 FILE NAME: I:\Crystal Lake\KANCHE\160541SHT_TS-Temp-Stage2B.dgn
 ...:\p\cd\drv\pdf\BW_Default.plt
 ...:\CADD\Illinois\160541_PEN.tbl
 I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_TS-Temp-Stage2B.dgn

MATCH LINE STA 49+00
SEE ABOVE RIGHT

MATCH LINE STA 49+00
SEE BELOW LEFT



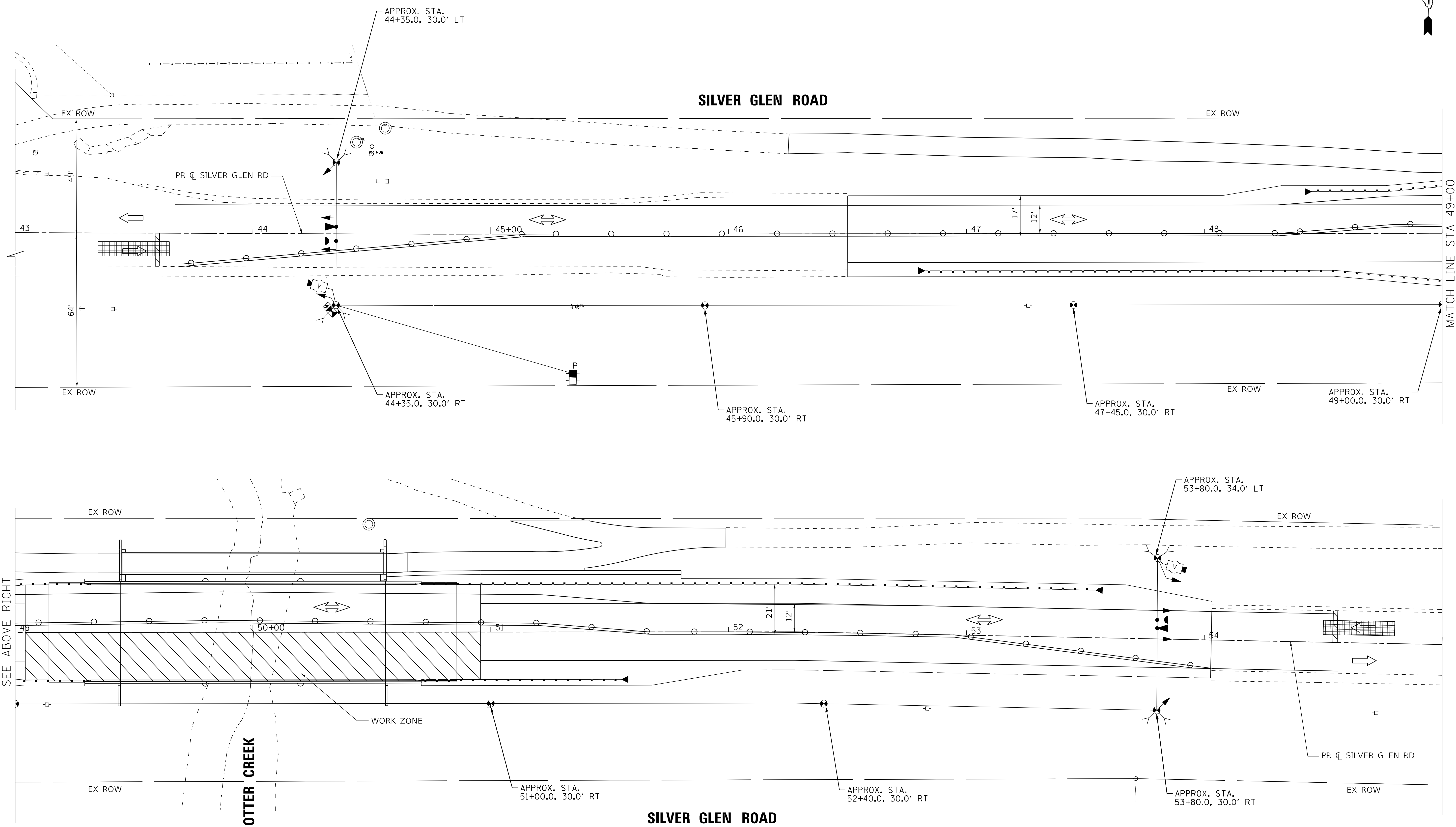
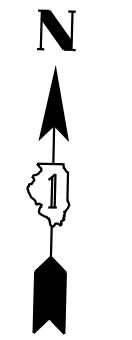
USER NAME = 765aks	DESIGNED - AKS	REVISED -
PLOT SCALE = 20.0000" / in.	DRAWN - CJC	REVISED -
PLOT DATE = 12/17/2018	CHECKED - DTH	REVISED -
	DATE - 11-26-18	FILE - 160541SHT_TS-Temp-Stage2B.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
STAGE 2B
SILVER GLEN ROAD

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	41
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT HILS(183)				



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7658AKS 12/17/2018 4:07:47 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_TS-Temp-Stage3A.dgn
 FILE NAME: I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_TS-Temp-Stage3A.dgn

MATCH LINE STA 49+00
 SEE ABOVE RIGHT

MATCH LINE STA 49+00
 SEE BELOW LEFT



USER NAME = 765aks	DESIGNED - AKS	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - CJC	REVISED -
PLOT DATE = 12/17/2018	CHECKED - DTH	REVISED -
	DATE - 11-26-18	FILE - 160541SHT_TS-Temp-Stage3A.dgn

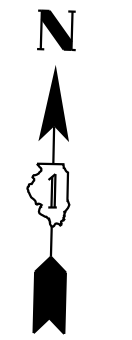
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
STAGE 3A
SILVER GLEN ROAD

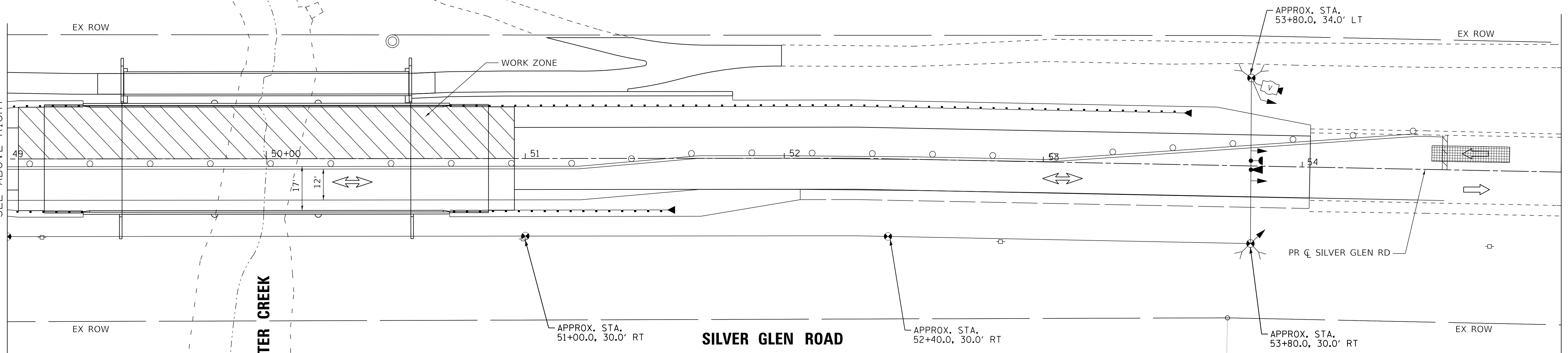
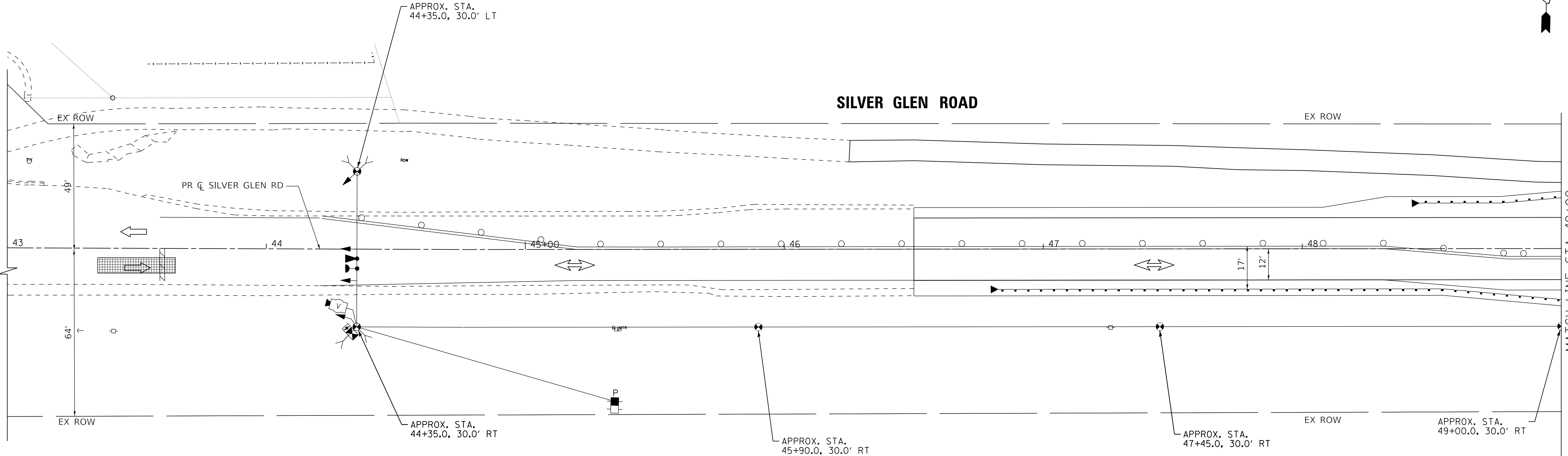
SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	42
ILLINOIS FED. AID PROJECT			HILS(183)	

CONTRACT NO. 61F45



SILVER GLEN ROAD



OTTER CREEK



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 7658AKS 12/17/2018 4:07:49 PM
 FILE NAME: I:\Crystal Lake\KANCHE\160541SHT_TS-Temp-Stage3B.dgn
 FILE PATH: I:\Crystal Lake\KANCHE\160541SHT_TS-Temp-Stage3B.dgn
 ...:\p160541SHT_TS-Temp-Stage3B.dgn
 ...:\CADD\160541_PEN.tbl
 I:\Crystal Lake\KANCHE\160541-Silver Glen over Otter Creek\160541SHT_TS-Temp-Stage3B.dgn



USER NAME = 765aks	DESIGNED - AKS	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - CJC	REVISED -
PLOT DATE = 12/17/2018	CHECKED - DTH	REVISED -
	DATE - 11-26-18	FILE - 160541SHT_TS-Temp-Stage3B.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL INSTALLATION PLAN
STAGE 3B
SILVER GLEN ROAD

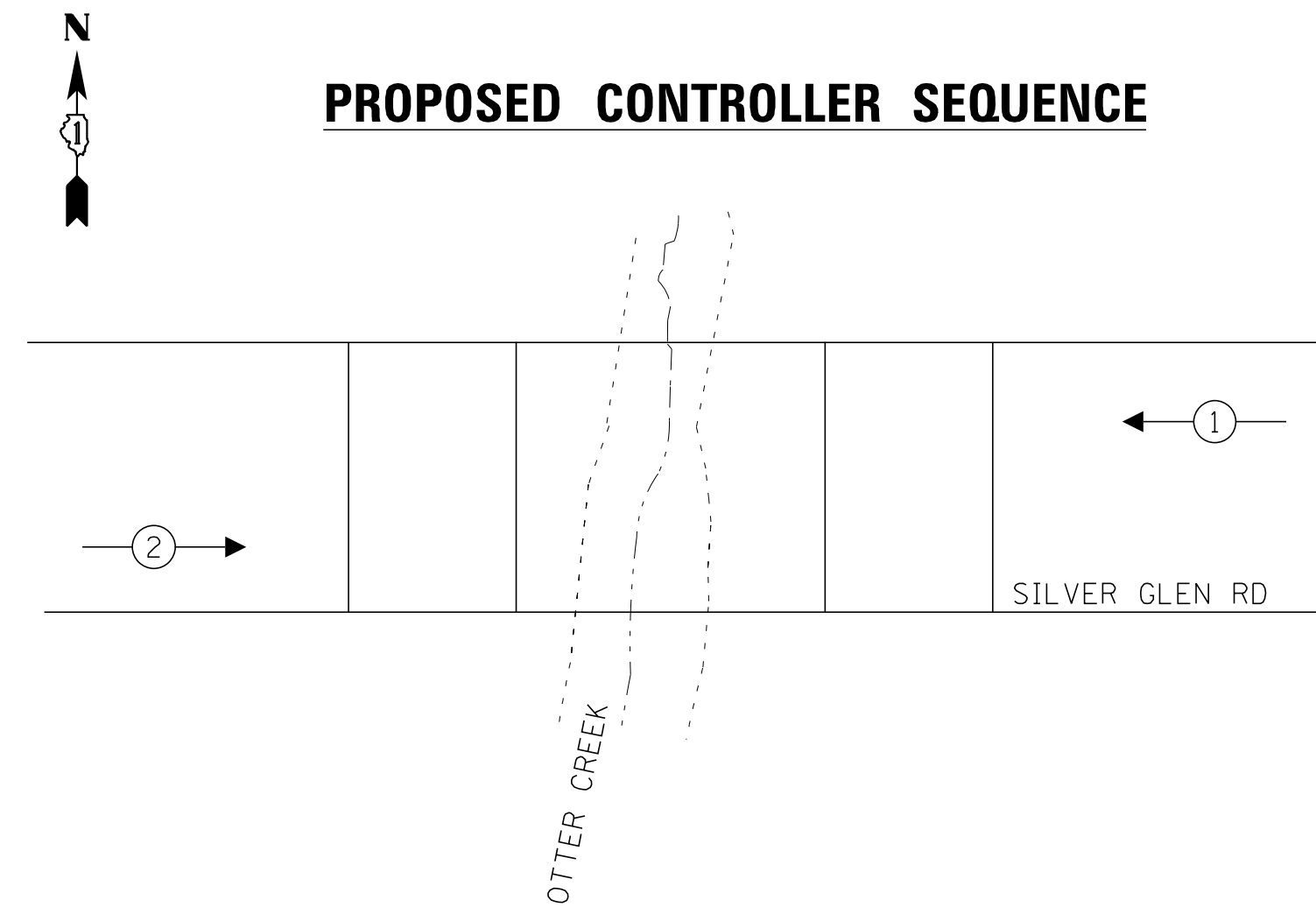
SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	43
CONTRACT NO. 61F45			ILLINOIS FED. AID PROJECT HILS(183)	

GENERAL NOTES

- CONTACT TO THE ELECTRIC UTILITY SHALL BE INITIATED BEFORE THE PRECONSTRUCTION MEETING, AND DOCUMENTATION OF CONTACT SHALL BE PRESENTED AT THAT MEETING. NO PLACEMENT OF POLES WILL BE ALLOWED WITHOUT EVIDENCE OF A SIGNED AGREEMENT WITH THE ELECTRIC UTILITY, FURNISHED TO THE ENGINEER.
- THE LAYOUT OF THE TEMPORARY EQUIPMENT WILL VARY BASED ON FIELD CONDITIONS, STAGING, UTILITY IMPACTS, AND THE ELECTRIC SERVICE LOCATION AS COORDINATED WITH THE ELECTRIC UTILITY. THE CONTRACTOR SHALL SUBMIT A PLAN INDICATING THE SETTING OF POLES, TRAFFIC SIGNALS, AND SERVICE. THIS PLAN MUST BE APPROVED BY THE ENGINEER BEFORE ANY POLES ARE PLACED.
- THE ELECTRIC SERVICE SHALL BE 240/120V. WHERE 240V SERVICE IS NOT AVAILABLE, THE CONTRACTOR SHALL SUBMIT A PROPOSAL FOR 120V SERVICE. DROP CABLE, MAIN BREAKER, AND ALL OTHER SERVICE APPURTENANCES SHALL BE APPROPRIATELY RATED AND INCLUDED REGARDLESS OF THE SERVICE VOLTAGE APPLIED.
- ALL AREAS DISTURBED UNDER THIS CONTRACT SHALL BE RESTORED TO THE ORIGINAL CONDITION OR BETTER, TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL BE BILLED FOR THE ELECTRICAL SERVICE FOR THE TEMPORARY TRAFFIC SIGNAL CONTROL, NOT KANE COUNTY.
- THE CONTRACTOR SHALL REMOVE THE ELECTRICAL SERVICE AND CORRESPONDING SERVICE ACCOUNT UPON COMPLETION OF THE TEMPORARY TRAFFIC CONTROL.

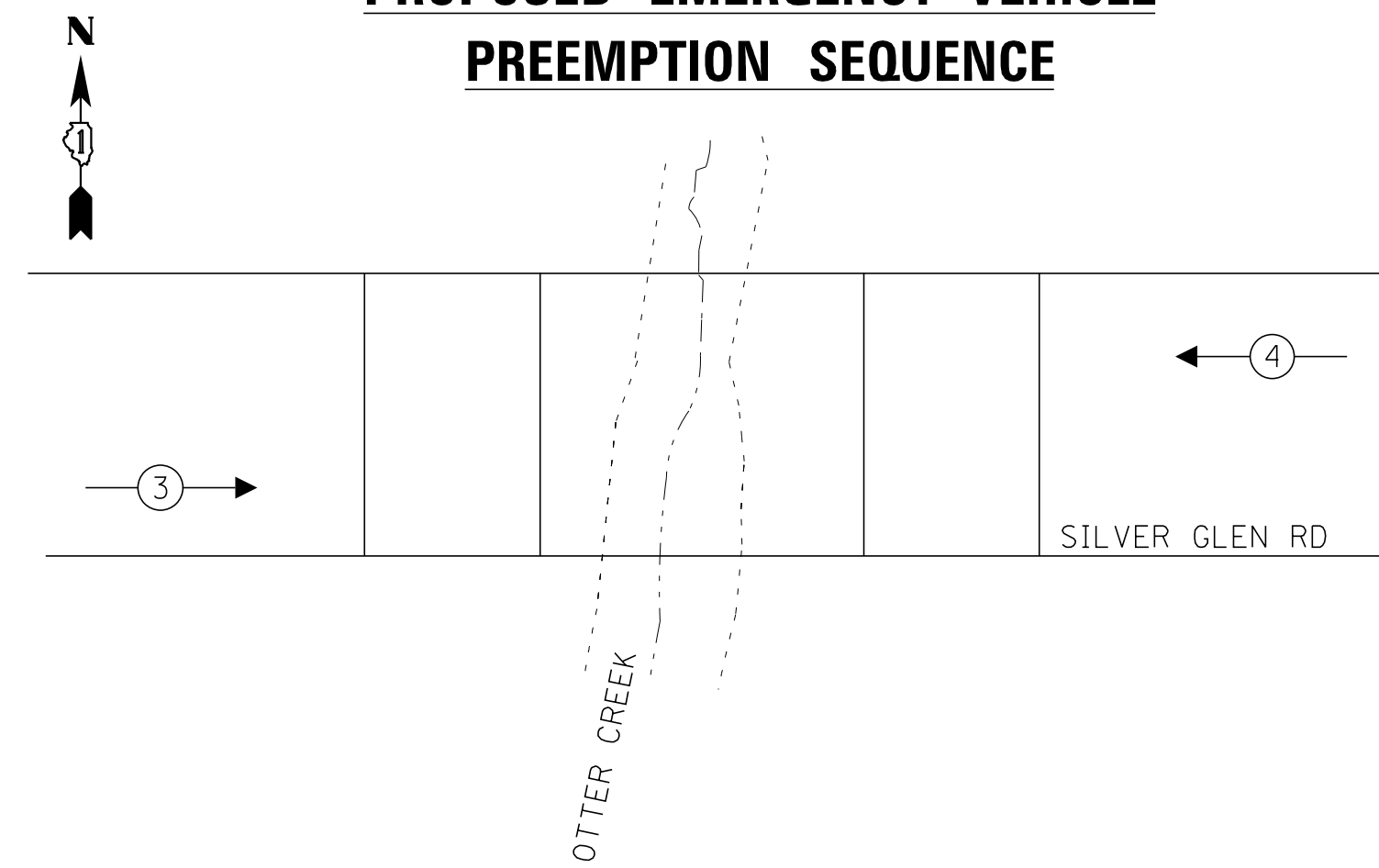
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ← ⊙ → PROTECTED PHASE
- ← ⊙ ··· ⊙ → PROTECTED/PERMITTED PHASE
- ← ⊙ → ⊙ → PEDESTRIAN PHASE
- ← ⊙ OL → OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



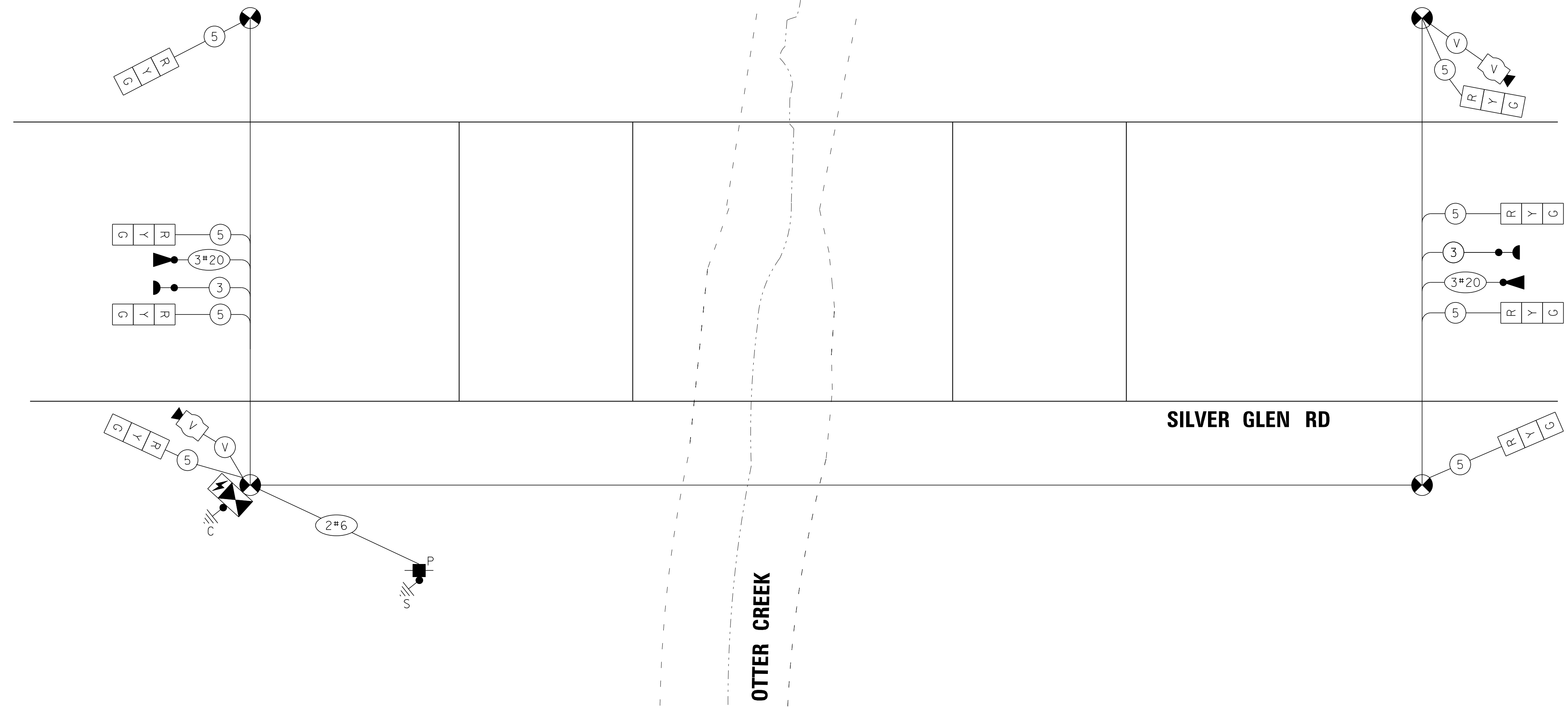
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	8	11	50	44.0
(YELLOW)	8	20	5	8.0
(GREEN)	8	12	45	43.2
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	-	100	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	-	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	-	50	-
LUMINAIRE	-	-	-	-
TOTAL =				370.2

ENERGY COSTS TO:

CONTRACTOR

ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---



CABLE PLAN STAGES 1, 2A, 2B, 3A & 3B
(NOT TO SCALE)

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2019
 76524KS 12/17/2018 4:07:50 PM
 FILE NAME: I:\Crystal Lake\KANE\CH160541-Silver Glen over Otter\CADD\Sheets-PH2\160541SHT_TS-Temp_Cable.dgn



USER NAME = 7	DESIGNED - RWL	REVISED -
PLOT SCALE = 20.0000" / in.	DRAWN - UKB	REVISED -
PLOT DATE = 12/17/2018	CHECKED - DTH	REVISED -
	DATE - 11-26-18	FILE - 160541SHT_TS-Temp_Cable.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
SILVER GLEN RD OVER OTTER CREEK**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	44
				CONTRACT NO. 61F45
ILLINOIS FED. AID PROJECT HILS(183)				

Benchmark: Chiseled square at northwest corner of bridge, Elev. 766.17

Existing Structure: SN 045-3122, built in 1984, the existing bridge is a two-span precast prestressed concrete deck beam superstructure supported by open concrete abutments on concrete piles and a pier cap beam on exposed concrete piles. The bridge was widened around year 2000 to include a pedestrian path. The roadway structure measures 93'-5" back to back of abutments, and 40'-0" out to out. Bridge is to be removed and replaced with a three-span reinforced concrete slab structure on pile bent piers and abutments, and a separate steel truss pedestrian bridge. Traffic to be maintained using staged construction.

No Salvage.

OTTER CREEK
BUILT 20__ BY
KANE COUNTY
DIV. OF TRANSPORTATION
SEC. 16-00115-02-BR
F.A.P. RT. 526 STA. 50+00
STR. NO. 045-3161
LOADING HL-93

NAME PLATE
See Std. 515001

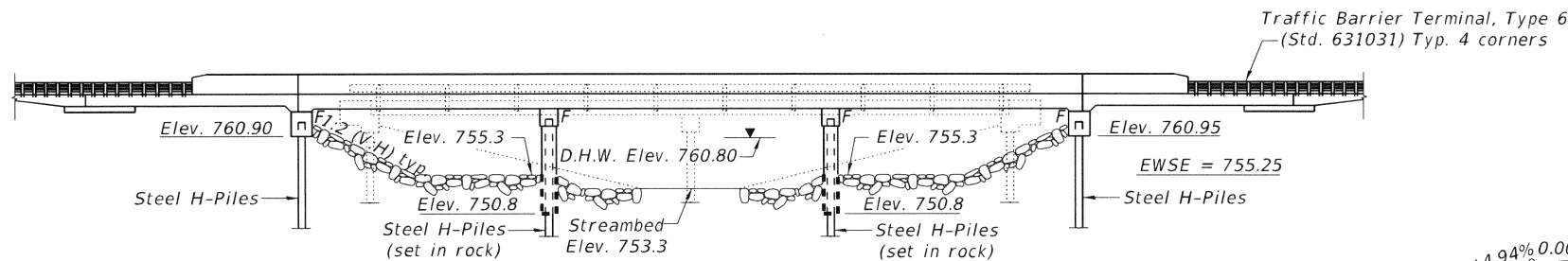
WATERWAY INFORMATION

Drainage Area = 29.7 Sq. Mi. Low Grade Elev. 766.65 @ Sta. 47+50									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Nat. Prop.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist. Prop.		
	10	950	231	507	760.26	0.37	0.28	760.63	760.54
Design	30	1491	285	592	760.80	0.75	0.64	761.55	761.44
Base	100	2243	354	690	761.49	1.12	0.96	762.61	762.45
Overtopping	-	-	-	-	-	-	-	-	-
Max. Calc.	500	4254	426	867	762.64	2.74	2.02	765.38	764.66

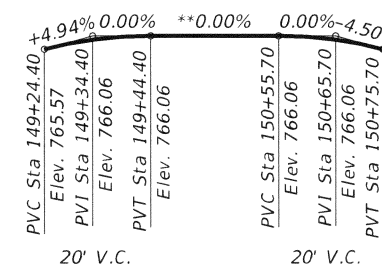
2 yr. flow rate = 536 C.F.S.

DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)				
	W. Abut.	Pier 1	Pier 2	E. Abut.	Item 113
Q100	762.55	751.37	751.37	762.55	8
Q200	761.67	751.14	751.14	761.63	
Design	760.90	750.80	750.80	760.95	
Check	760.90	750.80	750.80	760.95	

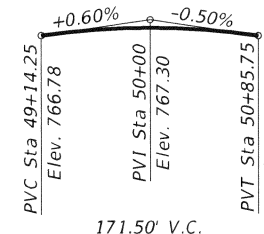


ELEVATION



PROFILE GRADE
Along \bar{C} River Bend Trail

**May be revised by bridge supplier



PROFILE GRADE
Along \bar{C} Silver Glen Rd

ROADWAY BRIDGE LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

PEDESTRIAN BRIDGE
LOADING 90PSF & H5 TRUCK

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition with 2015 Interims & 2009 LRFD Guide Specifications for the Design of Pedestrian Bridges, 2nd Edition, with 2015 Interims

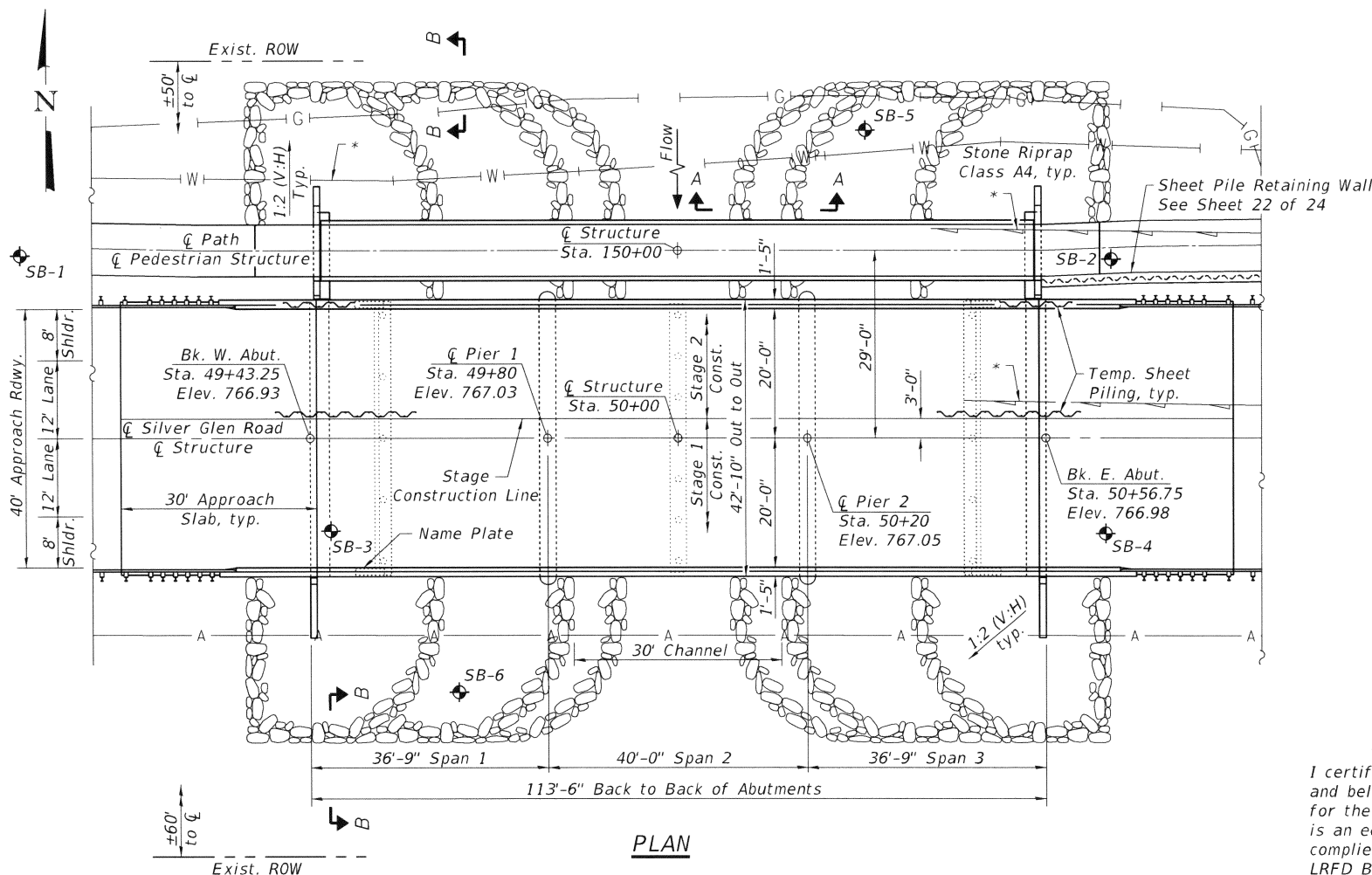
DESIGN STRESSES

FIELD UNITS

$f_c = 3,500$ psi
 $f_c = 4,000$ psi (Superstructure)
 $f_y = 60,000$ psi (Reinforcement)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.036g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.097g
Soil Site Class = B



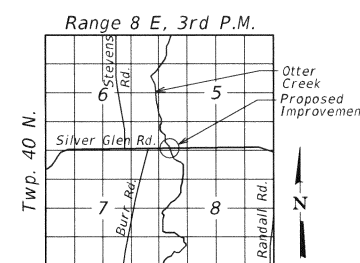
PLAN

* Verify location, depth and condition of underground pipe. Work shall be paid for as Exploration Trench, Special.



DATE: 11/20/18
LICENSE EXPIRES 11/30/20

I certify that to the best of my knowledge, information and belief, this bridge 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 the requirements of the current AASHTO LRFD Bridge Design Specifications.



LOCATION SKETCH

GENERAL PLAN
SILVER GLEN ROAD OVER OTTER CREEK
FAP RTE 526 SEC. 16-00115-02-BR
KANE COUNTY
STATION 50+00
STRUCTURE NO. 045-3161

MODEL: General Plan
FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANC\160541-Silver Glen over OtterCreek\Drawings\PH2\Bridges\General.dgn

BAXTER & WOODMAN	USER NAME =	DESIGNED - AS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN STRUCTURE NO. 045-3161	F.A.P. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
	PLOT SCALE =	CHECKED - BLB	REVISED -			526	16-00115-02-BR	KANE	81	45
PLOT DATE =	DRAWN - AS	REVISED -	DATE - 11-26-18	SHEET 1 OF 24 SHEETS		CONTRACT NO. 61F45				
						ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

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

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

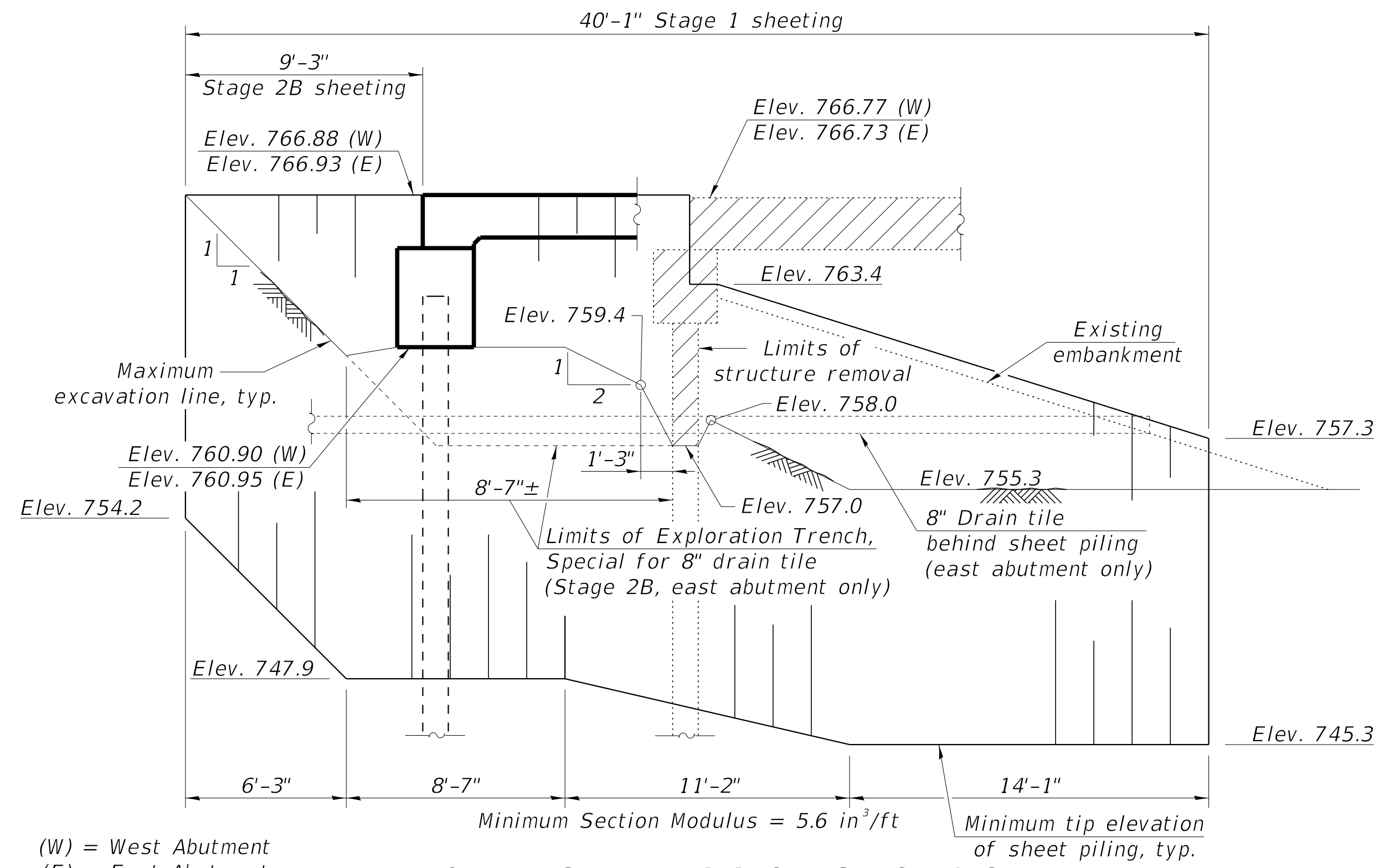
Removal of existing approach slabs, if any are present, shall be included in the cost of Removal of Existing Structures.

INDEX OF SHEETS

1. General Plan
2. General Data
3. Stage Construction Details
4. Temporary Concrete Barrier for Stage Construction
- 5-6. Top of Slab Elevations
7. Top of West Approach Slab Elevations
8. Top of East Approach Slab Elevations
9. Superstructure
10. Superstructure Details I
11. Superstructure Details II
- 12-13. Bridge Approach Slab Details
14. West Abutment
15. East Abutment
16. Piers
17. Pedestrian Bridge - General Plan
18. Pedestrian Bridge - Abutment Details
19. Pedestrian Bridge - Superstructure Details
20. HP Pile Details
21. Bar Splicer Assembly Details
22. Retaining Wall Details
- 23-24. Boring Logs

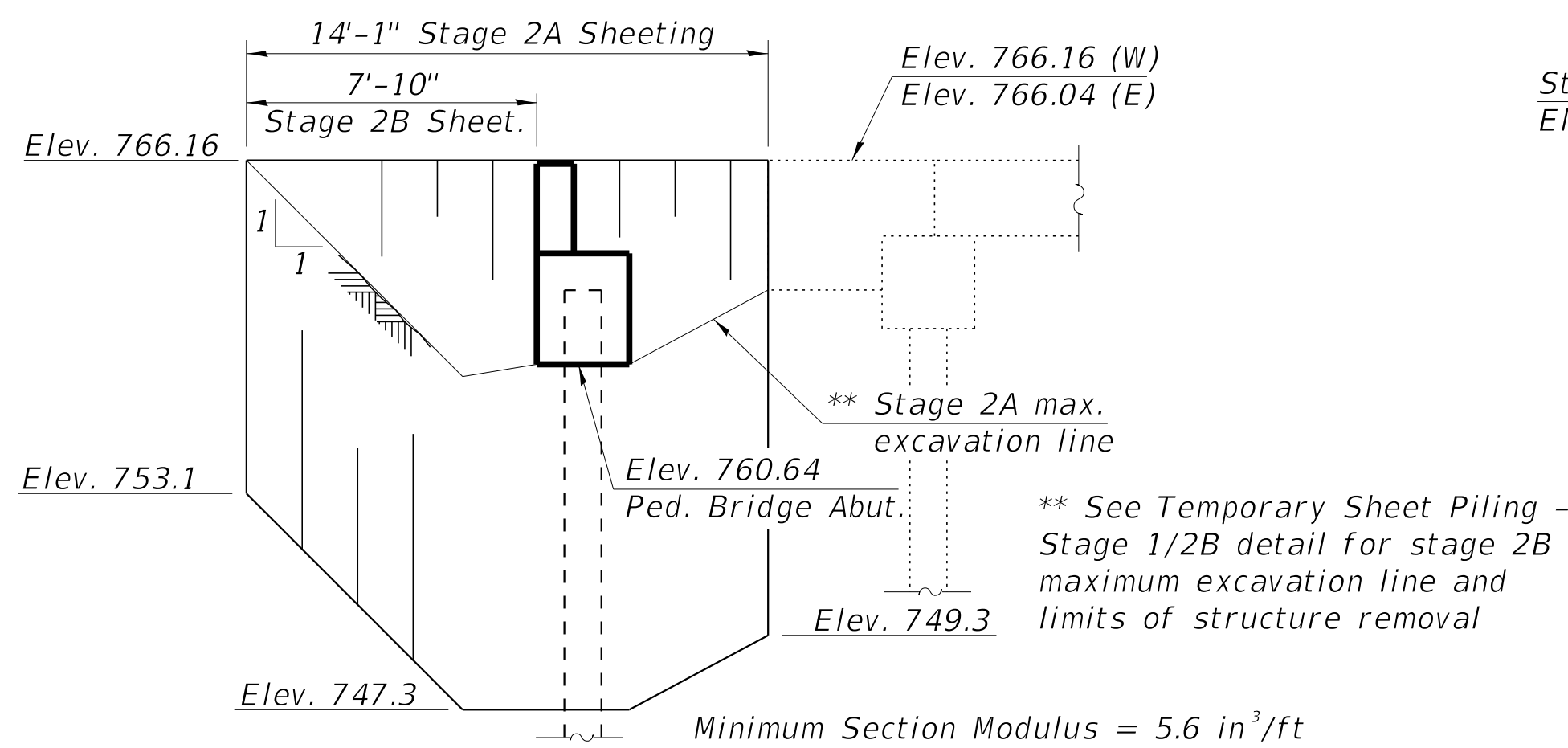
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq Yd		1,365	1,365
Filter Fabric	Sq Yd		1,365	1,365
Removal of Existing Structures	Each			1
Structure Excavation	Cu Yd		261	261
Cofferdam Excavation	Cu Yd		169	169
Cofferdam (Type 1) (Location - 1)	Each		1	1
Cofferdam (Type 1) (Location - 2)	Each		1	1
Floor Drains	Each	16		16
Concrete Structures	Cu Yd		192.1	192.1
Concrete Superstructure	Cu Yd	334.6		334.6
Bridge Deck Grooving	Sq Yd		745	745
Protective Coat	Sq Yd		96	96
Concrete Superstructure (Approach Slab)	Cu Yd		128.6	128.6
Stud Shear Connectors	Each		252	252
Reinforcement Bars, Epoxy Coated	Pound	126,010	23,030	149,040
Bar Splicers	Each		412	412
Pedestrian Railing	Foot		6	6
Furnishing Steel Piles HP12x53	Foot		287	287
Furnishing Steel Piles HP14x73	Foot		416	416
Driving Piles	Foot		287	287
Test Pile Steel HP12x53	Each		2	2
Pile Shoes	Each		16	16
Name Plates	Each	1		1
Temporary Sheet Piling	Sq Ft		1,814	1,814
Permanent Sheet Piling	Sq Ft		1,203	1,203
Geocomposite Wall Drain	Sq Yd		51	51
Pedestrian Truss Superstructure	Sq Ft	898		898
Granular Backfill for Structures	Cu Yd		80	80
Concrete Bridge Deck Scarification 3/8 inch	Sq Yd		766	766
Bridge Deck Thin Polymer Overlay 3/8"	Sq Yd		766	766
Pipe Underdrains for Structures 4"	Foot		180	180
Setting Piles in Rock	Each		16	16

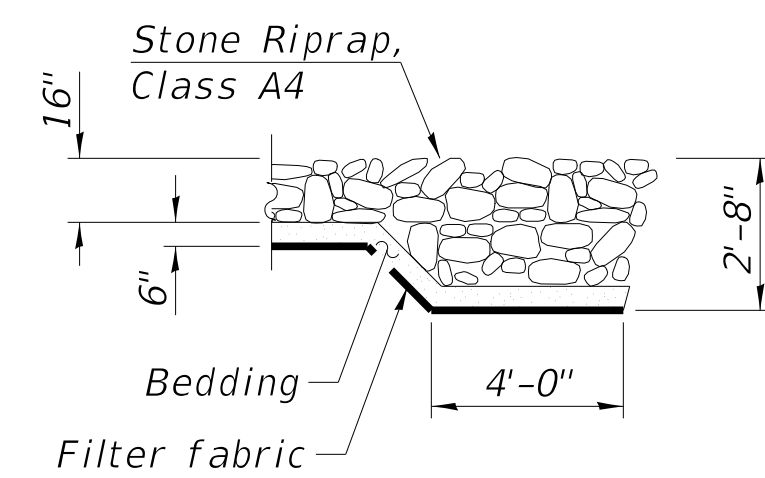


(W) = West Abutment
(E) = East Abutment

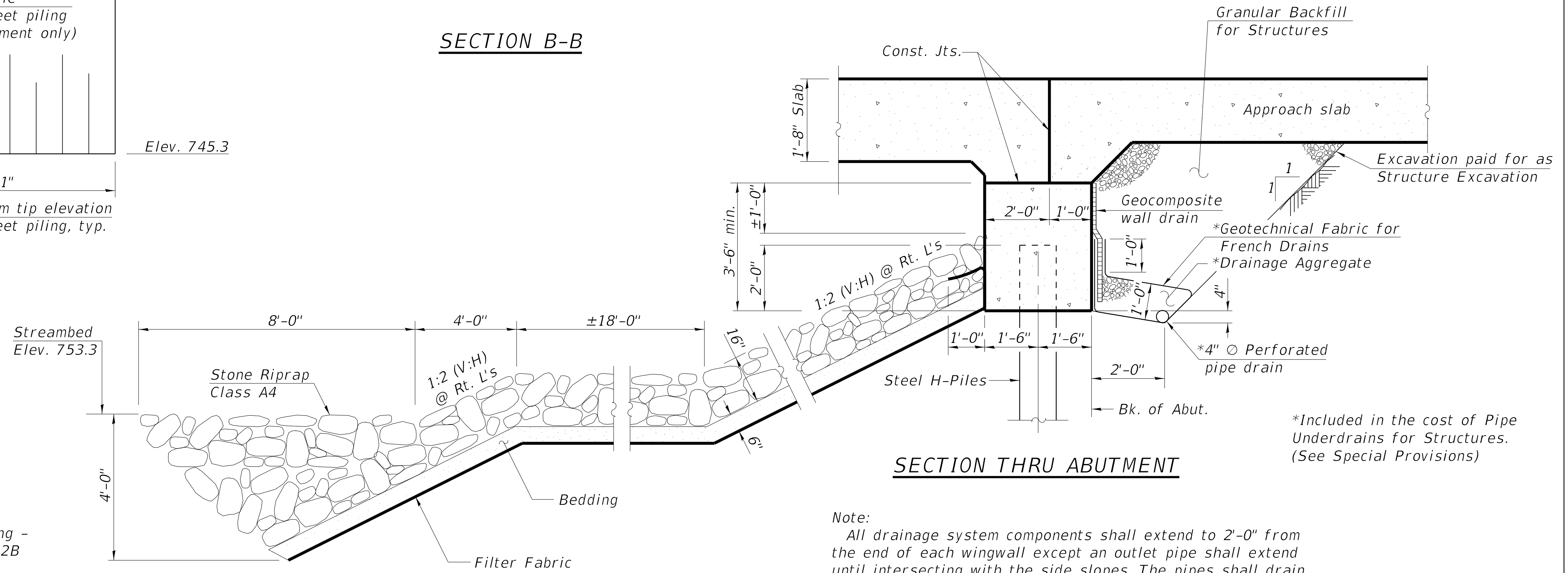
TEMPORARY SHEET PILING - STAGE 1/2B
West Abutment shown, looking North.
East Abutment similar but opposite hand.



TEMPORARY SHEET PILING - STAGE 2A/2B
West Pedestrian Abutment shown, looking North.
East Pedestrian Abutment similar but opposite hand.



SECTION B-B



SECTION THRU ABUTMENT

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).

SECTION A-A

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 045-3161

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	46
CONTRACT NO. 61F45				

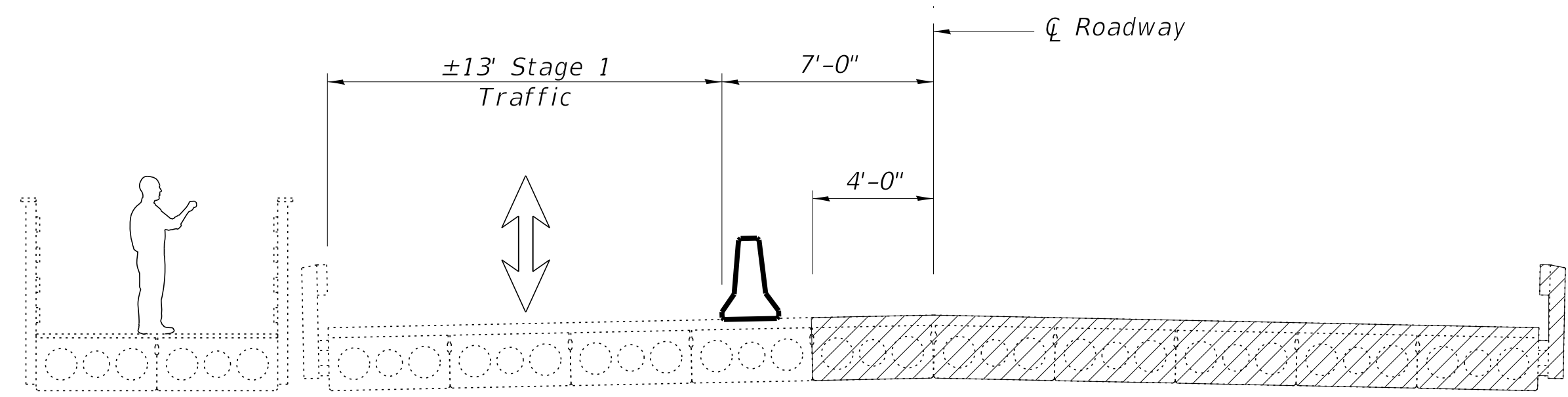
SHEET 2 OF 24 SHEETS

ILLINOIS FED. AID PROJECT

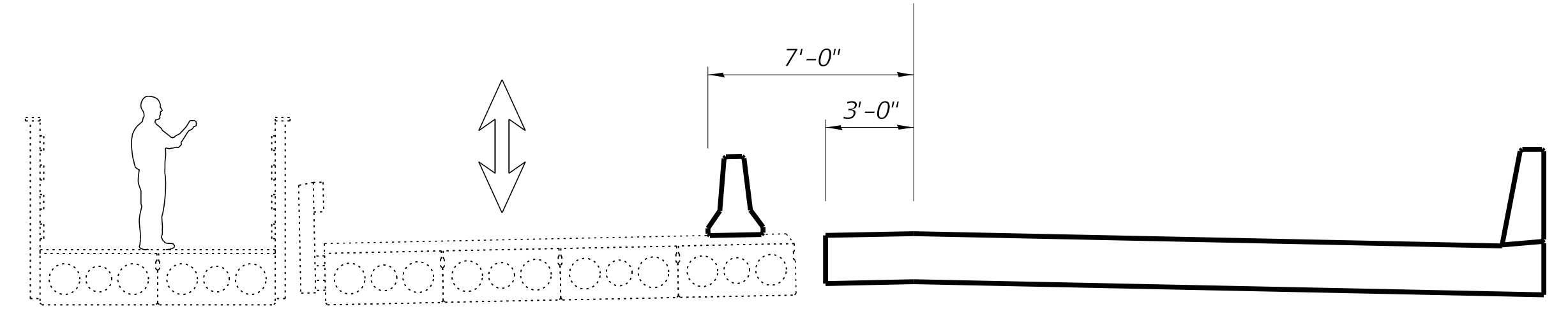
MODEL: General Data
FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\General.dgn
12/17/2018 4:07:57 PM

BAXTER & WOODMAN
Consulting Engineers

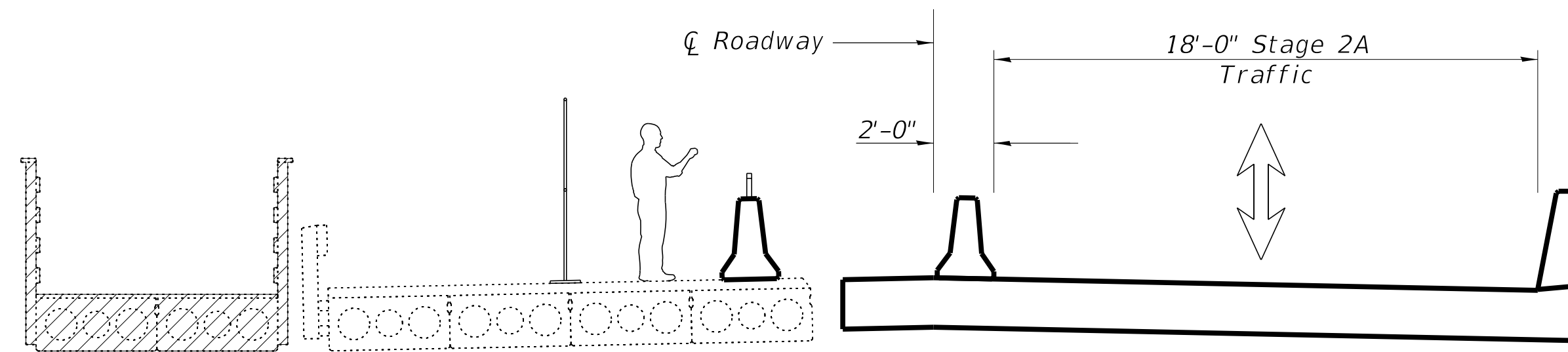
USER NAME	DESIGNED	REVISIONS	DATE
=	- AS	-	-
	- BLB	-	-
PLOT SCALE	DRAWN - AS	REVISIONS	-
PLOT DATE	CHECKED - BLB	DATE	11-26-18



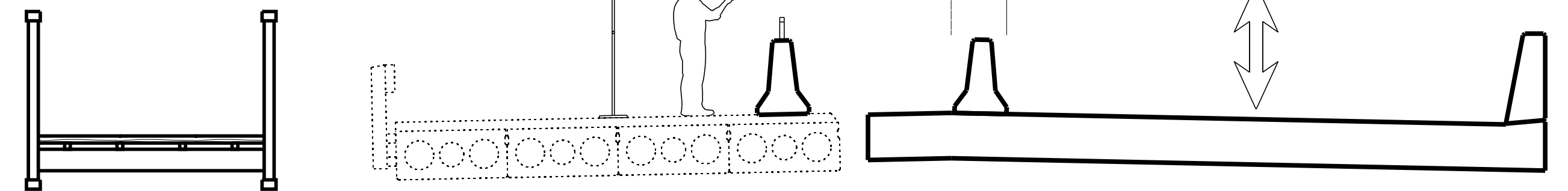
STAGE 1 REMOVAL
(Looking East)



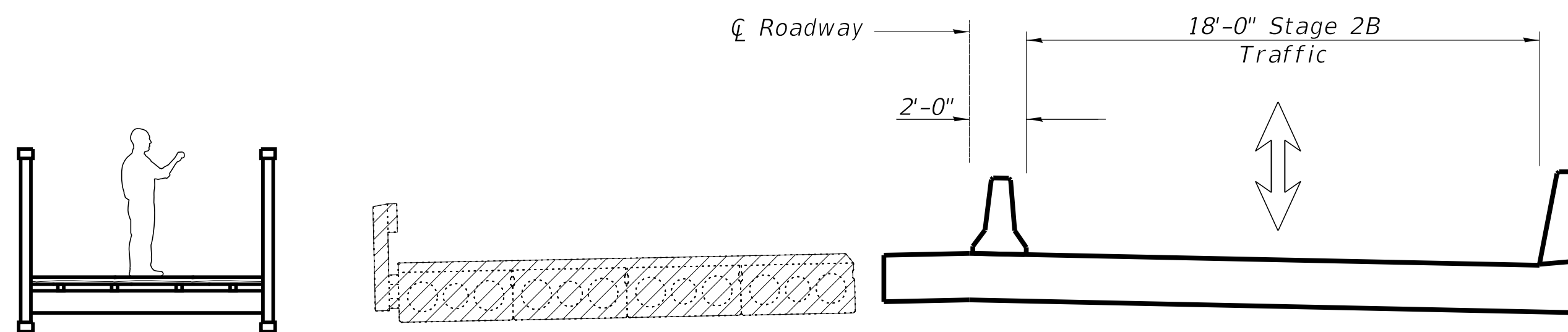
STAGE 1 CONSTRUCTION
(Looking East)



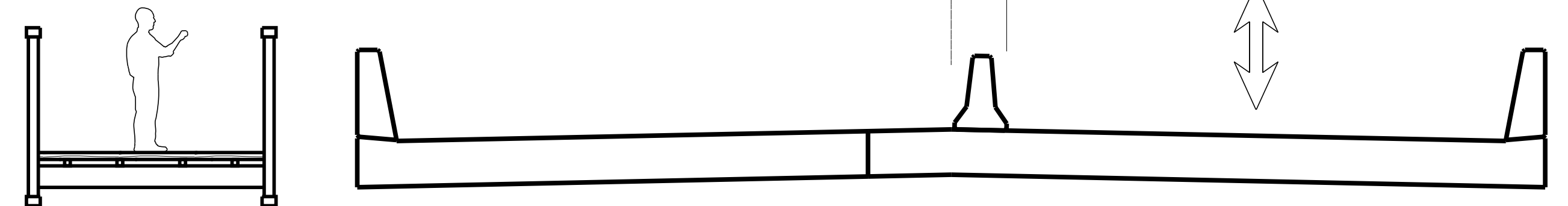
STAGE 2A REMOVAL
(Looking East)



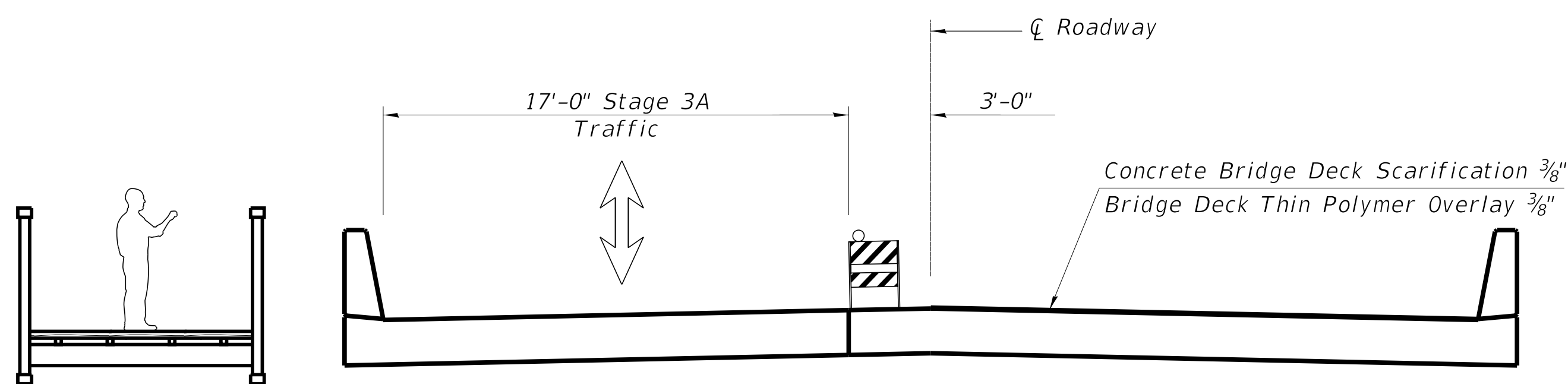
STAGE 2A CONSTRUCTION
(Looking East)



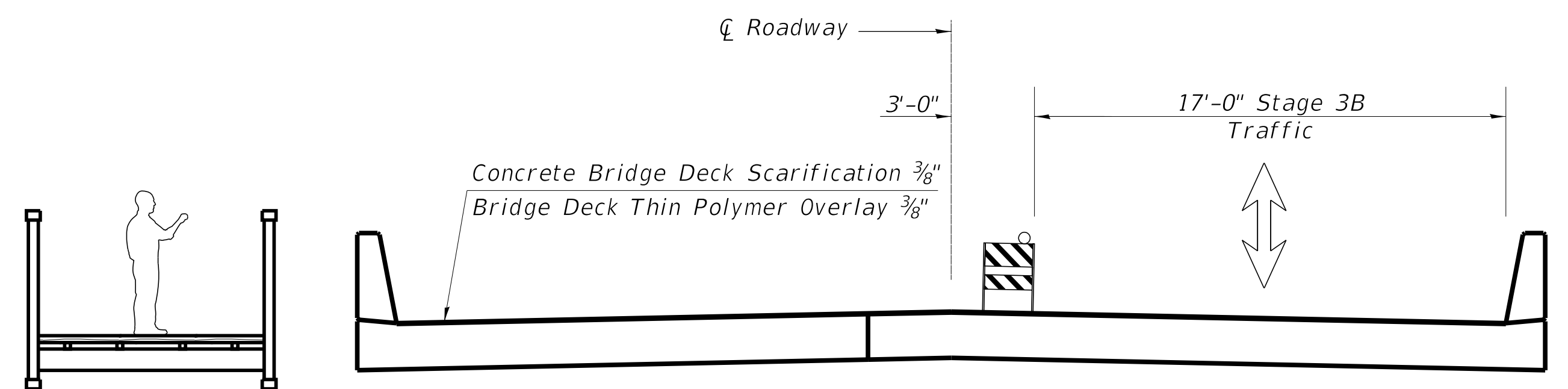
STAGE 2B REMOVAL
(Looking East)



STAGE 2B CONSTRUCTION
(Looking East)



STAGE 3A CONSTRUCTION
(Looking East)



STAGE 3B CONSTRUCTION
(Looking East)

MODEL: 03 Stage Construction Details
FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\StageDetails.dgn

BAXTER & WOODMAN
Consulting Engineers

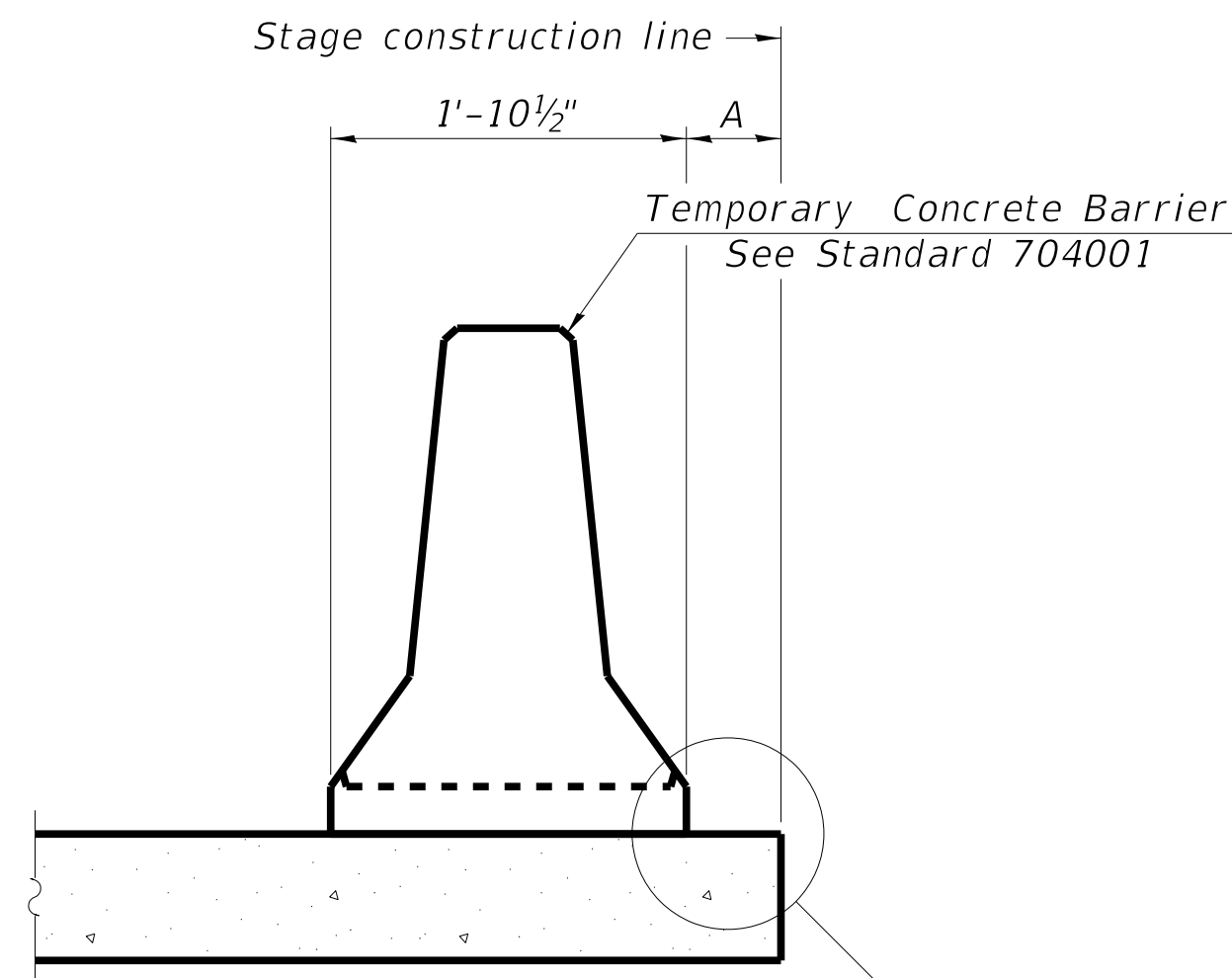
USER NAME =	DESIGNED - AS	REVISED -
	CHECKED - BLB	REVISED -
PLOT SCALE =	DRAWN - AS	REVISED -
PLOT DATE =	CHECKED - BLB	DATE - 11-26-18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 045-3161

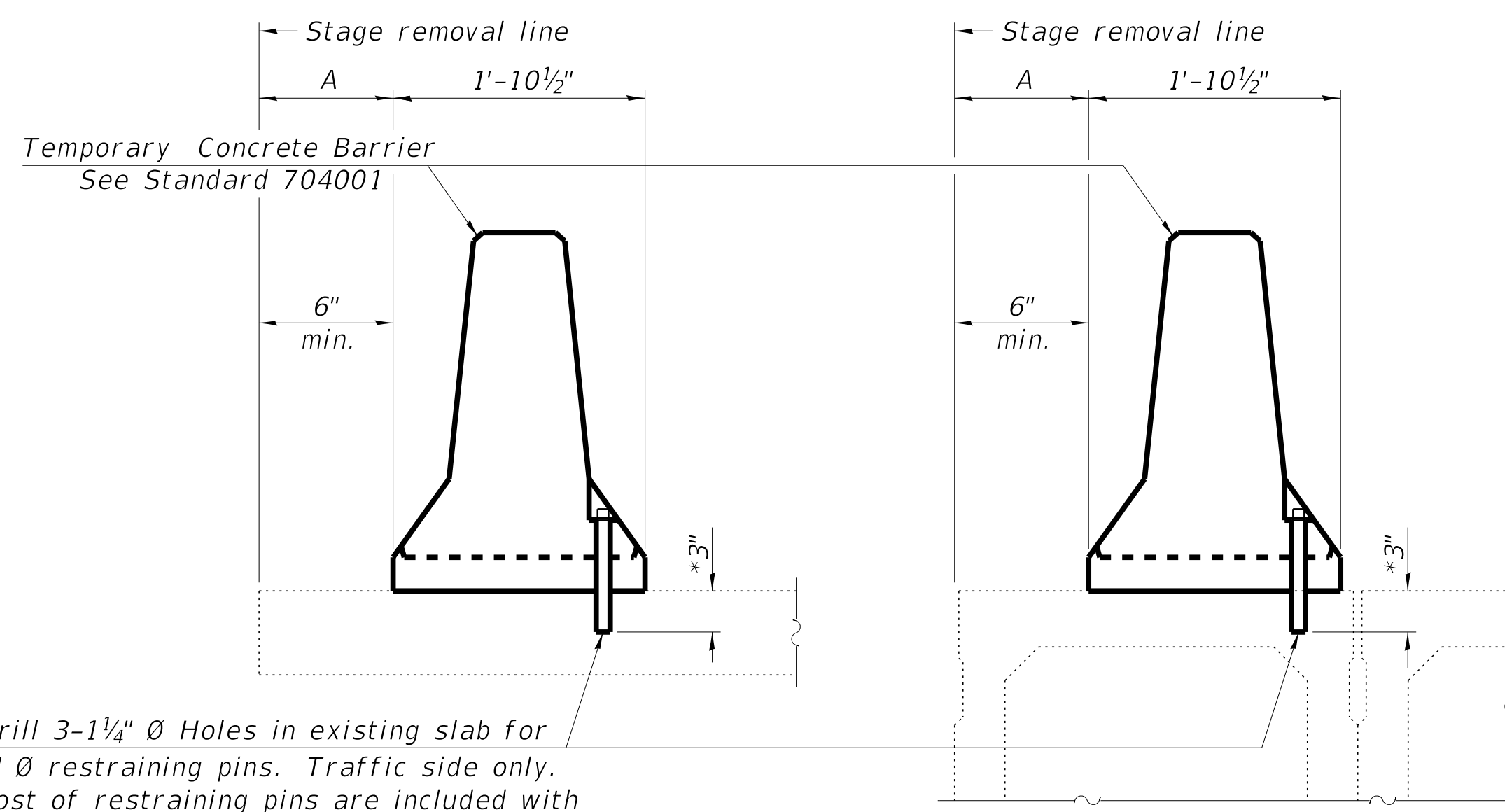
SHEET 3 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	47
			CONTRACT NO. 61F45	
ILLINOIS FED. AID PROJECT				



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

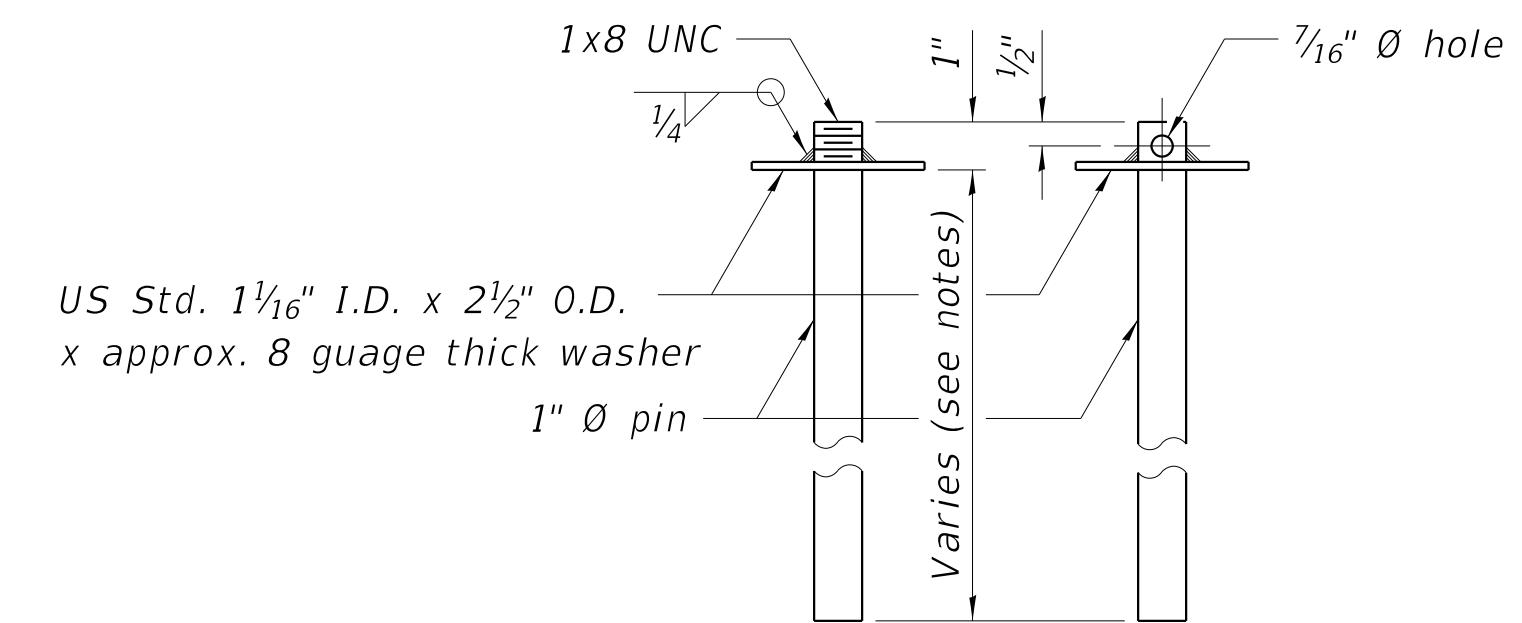


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

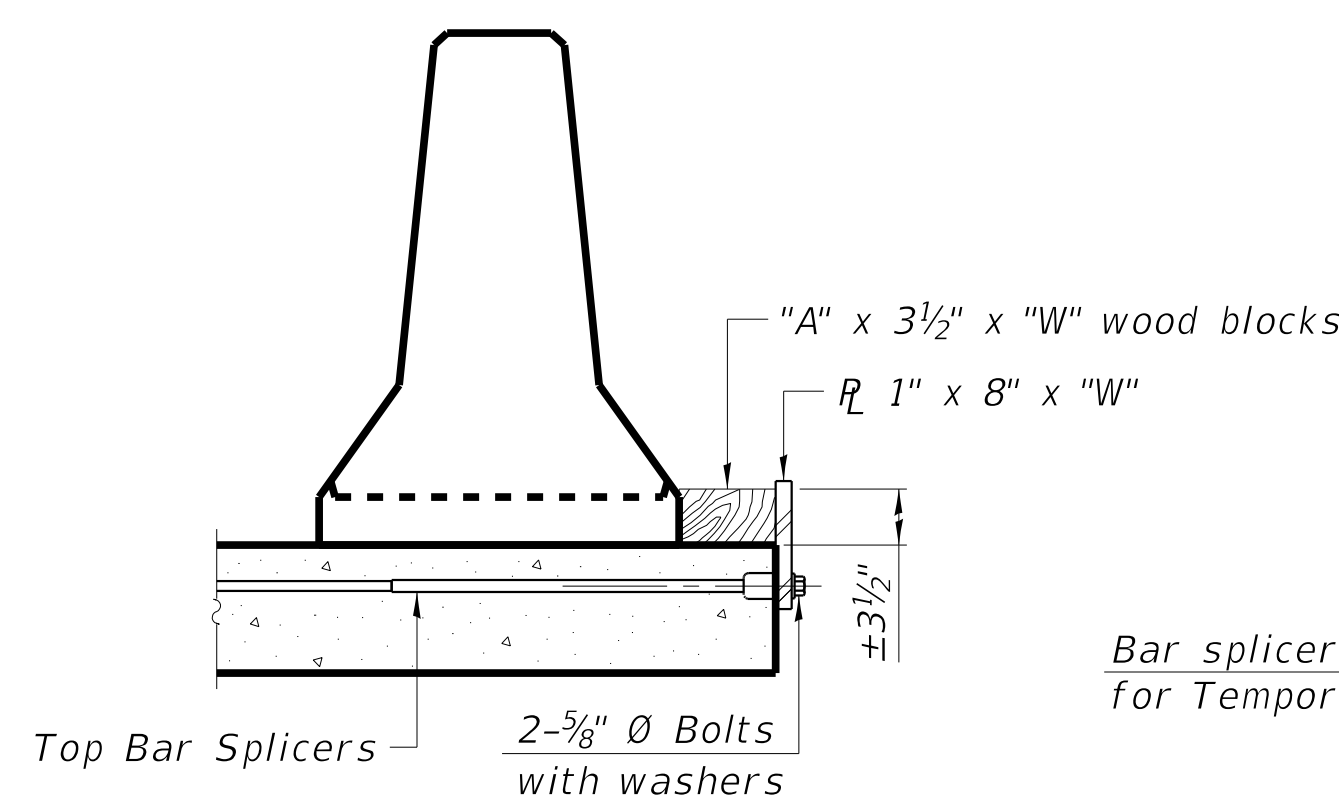
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

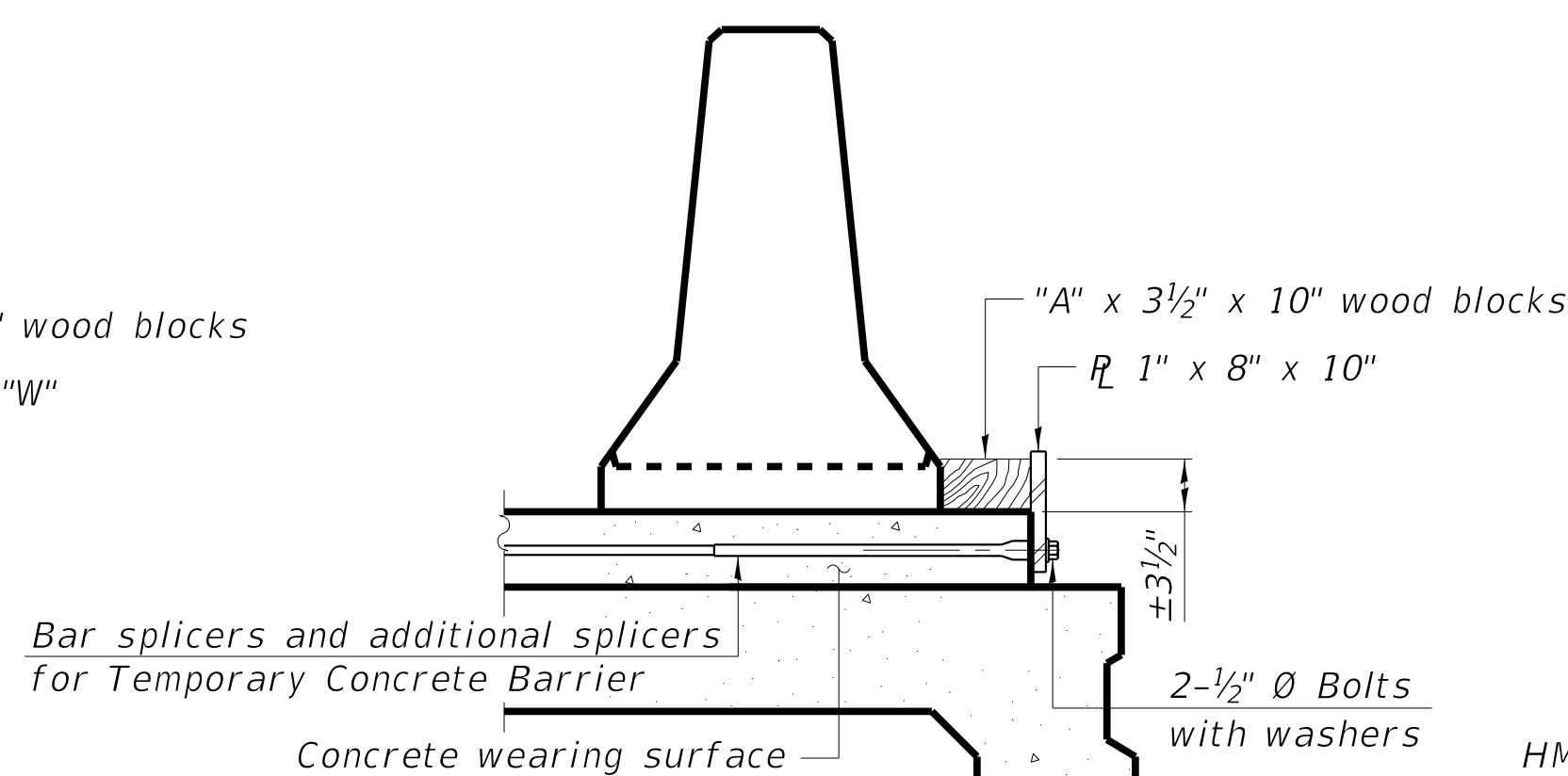


RESTRAINING PIN

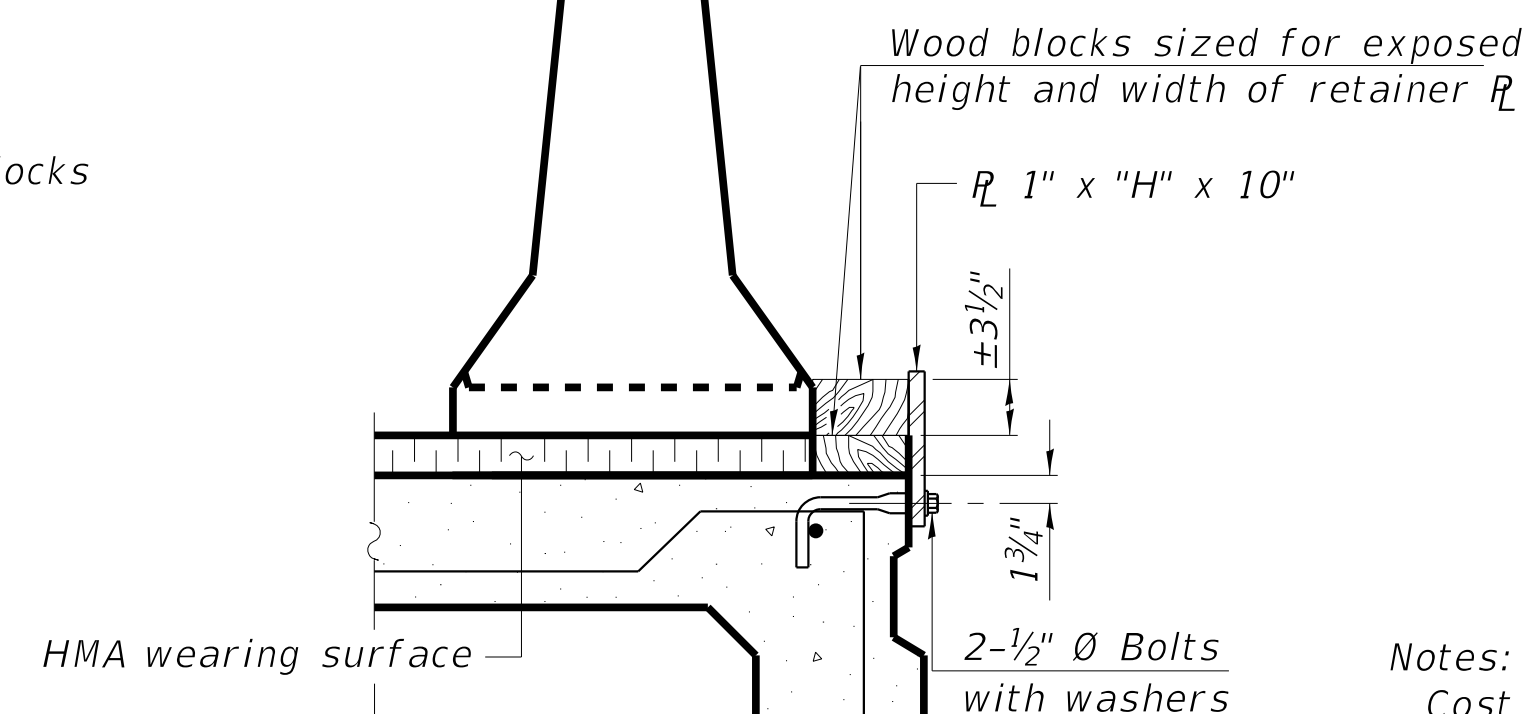
SECTIONS THRU SLAB OR DECK BEAM



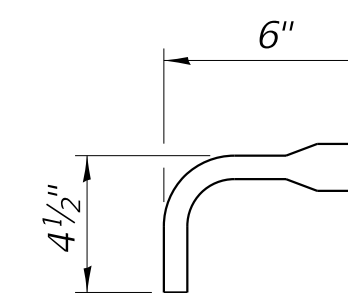
DETAIL I



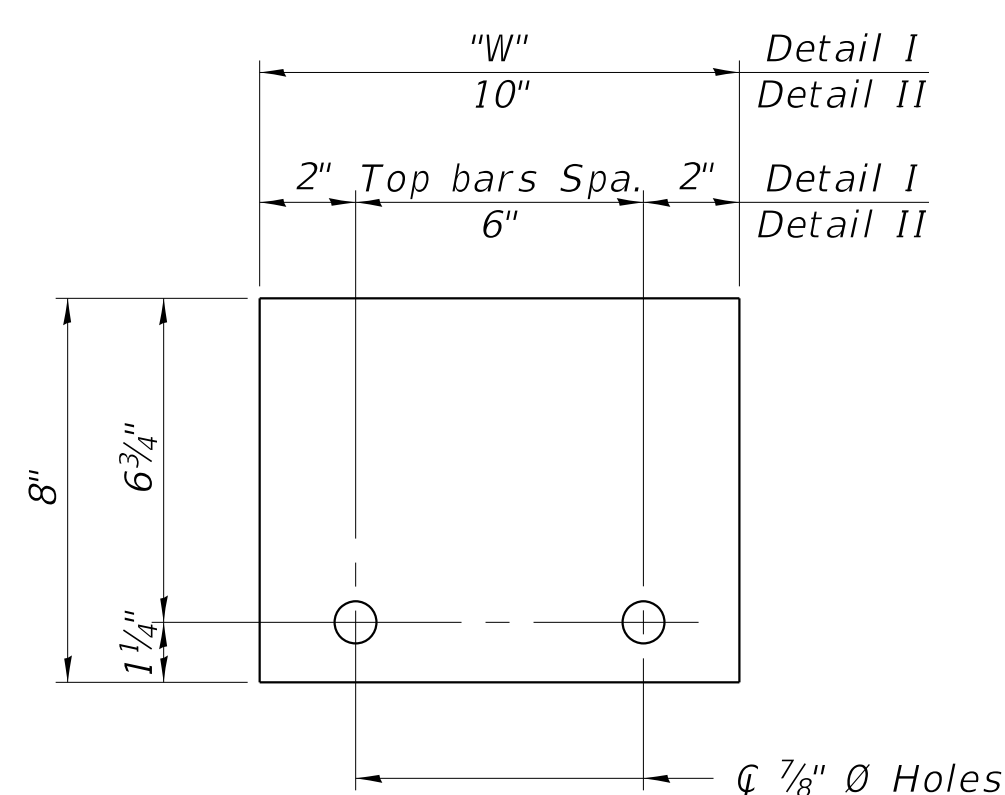
DETAIL II



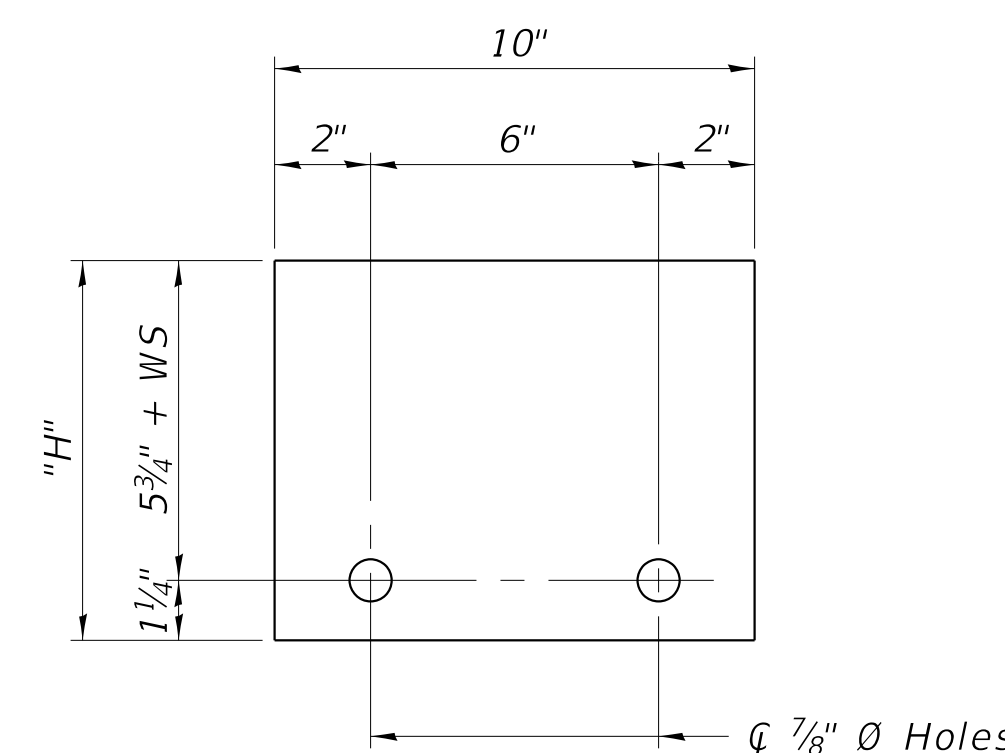
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate \bar{C} of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

- Detail I - Installation for a new bridge deck or bridge slab.
- Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
- Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

MODEL: 04 Temporary Concrete Barrier
 FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\StageDetails.dgn

R-27 8-11-2017

BAXTER & WOODMAN
 Consulting Engineers

USER NAME =	DESIGNED - AS	REVISED -
PLOT SCALE =	CHECKED - BLB	REVISED -
PLOT DATE =	DRAWN - AS	REVISED -
	CHECKED - BLB	DATE - 11-26-18

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
 STRUCTURE NO. 045-3161

SHEET 4 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	48
CONTRACT NO. 61F45				

ILLINOIS FED. AID PROJECT

NORTH EDGE OF SLAB

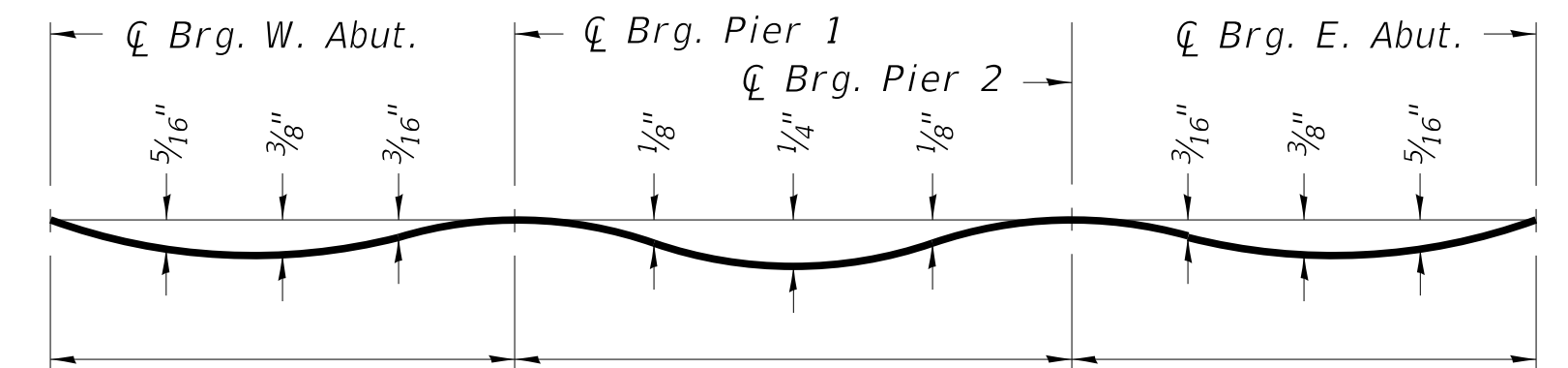
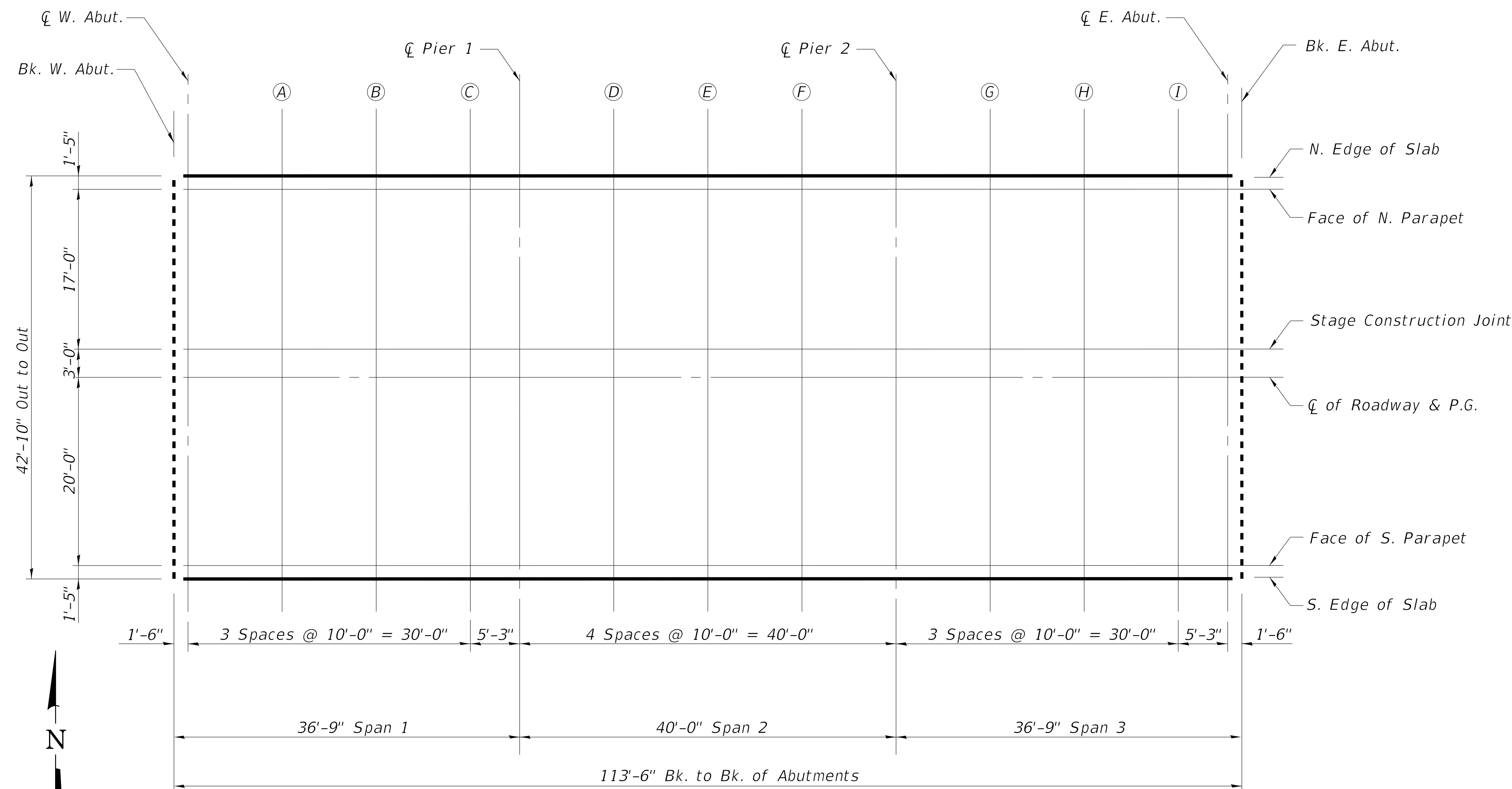
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W Abut.	49+43.25	-21.42	766.64	766.64
C W. Abut.	49+44.75	-21.42	766.65	766.65
A	49+54.75	-21.42	766.68	766.71
B	49+64.75	-21.42	766.72	766.74
C	49+74.75	-21.42	766.74	766.75
C Pier 1	49+80.00	-21.42	766.75	766.75
D	49+90.00	-21.42	766.76	766.77
E	50+00.00	-21.42	766.77	766.79
F	50+10.00	-21.42	766.77	766.78
C Pier 2	50+20.00	-21.42	766.77	766.77
G	50+30.00	-21.42	766.76	766.78
H	50+40.00	-21.42	766.74	766.77
I	50+50.00	-21.42	766.72	766.73
C E. Abut.	50+55.25	-21.42	766.70	766.70
Back E. Abut.	50+56.75	-21.42	766.70	766.70

FACE OF NORTH PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W Abut.	49+43.25	-20.00	766.52	766.52
C W. Abut.	49+44.75	-20.00	766.52	766.52
A	49+54.75	-20.00	766.56	766.59
B	49+64.75	-20.00	766.59	766.62
C	49+74.75	-20.00	766.61	766.62
C Pier 1	49+80.00	-20.00	766.62	766.62
D	49+90.00	-20.00	766.64	766.65
E	50+00.00	-20.00	766.65	766.67
F	50+10.00	-20.00	766.65	766.66
C Pier 2	50+20.00	-20.00	766.64	766.64
G	50+30.00	-20.00	766.63	766.65
H	50+40.00	-20.00	766.62	766.65
I	50+50.00	-20.00	766.59	766.61
C E. Abut.	50+55.25	-20.00	766.58	766.58
Back E. Abut.	50+56.75	-20.00	766.57	766.57

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W Abut.	49+43.25	-3.00	766.87	766.87
C W. Abut.	49+44.75	-3.00	766.88	766.88
A	49+54.75	-3.00	766.91	766.94
B	49+64.75	-3.00	766.94	766.97
C	49+74.75	-3.00	766.97	766.98
C Pier 1	49+80.00	-3.00	766.98	766.98
D	49+90.00	-3.00	766.99	767.00
E	50+00.00	-3.00	767.00	767.02
F	50+10.00	-3.00	767.00	767.01
C Pier 2	50+20.00	-3.00	767.00	767.00
G	50+30.00	-3.00	766.99	767.01
H	50+40.00	-3.00	766.97	767.00
I	50+50.00	-3.00	766.95	766.96
C E. Abut.	50+55.25	-3.00	766.93	766.93
Back E. Abut.	50+56.75	-3.00	766.93	766.93



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 as shown below.

MODEL: 05 Top of Slab Elevations
FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\DeckElev.dgn



USER NAME =	DESIGNED - AS	REVISED -
	CHECKED - BLB	REVISED -
PLOT SCALE =	DRAWN - AS	REVISED -
PLOT DATE =	CHECKED - BLB	DATE - 11-26-18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 045-3161

SHEET 5 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	49
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT				

☐ OF ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W Abut.	49+43.25	0.00	766.93	766.93
☐ W. Abut.	49+44.75	0.00	766.94	766.94
A	49+54.75	0.00	766.98	767.00
B	49+64.75	0.00	767.01	767.04
C	49+74.75	0.00	767.03	767.04
☐ Pier 1	49+80.00	0.00	767.04	767.04
D	49+90.00	0.00	767.06	767.07
E	50+00.00	0.00	767.06	767.09
F	50+10.00	0.00	767.07	767.08
☐ Pier 2	50+20.00	0.00	767.06	767.06
G	50+30.00	0.00	767.05	767.07
H	50+40.00	0.00	767.03	767.06
I	50+50.00	0.00	767.01	767.03
☐ E. Abut.	50+55.25	0.00	766.99	766.99
Back E. Abut.	50+56.75	0.00	766.99	766.99

FACE OF SOUTH PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W Abut.	49+43.25	20.00	766.52	766.52
☐ W. Abut.	49+44.75	20.00	766.52	766.52
A	49+54.75	20.00	766.56	766.59
B	49+64.75	20.00	766.59	766.62
C	49+74.75	20.00	766.61	766.62
☐ Pier 1	49+80.00	20.00	766.62	766.62
D	49+90.00	20.00	766.64	766.65
E	50+00.00	20.00	766.65	766.67
F	50+10.00	20.00	766.65	766.66
☐ Pier 2	50+20.00	20.00	766.64	766.64
G	50+30.00	20.00	766.63	766.65
H	50+40.00	20.00	766.62	766.65
I	50+50.00	20.00	766.59	766.61
☐ E. Abut.	50+55.25	20.00	766.58	766.58
Back E. Abut.	50+56.75	20.00	766.57	766.57

SOUTH EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back W Abut.	49+43.25	21.42	766.64	766.64
☐ W. Abut.	49+44.75	21.42	766.65	766.65
A	49+54.75	21.42	766.68	766.71
B	49+64.75	21.42	766.72	766.74
C	49+74.75	21.42	766.74	766.75
☐ Pier 1	49+80.00	21.42	766.75	766.75
D	49+90.00	21.42	766.76	766.77
E	50+00.00	21.42	766.77	766.79
F	50+10.00	21.42	766.77	766.78
☐ Pier 2	50+20.00	21.42	766.77	766.77
G	50+30.00	21.42	766.76	766.78
H	50+40.00	21.42	766.74	766.77
I	50+50.00	21.42	766.72	766.73
☐ E. Abut.	50+55.25	21.42	766.70	766.70
Back E. Abut.	50+56.75	21.42	766.70	766.70

MODEL: 06 Top of Slab Elevations
FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\DeckElev.dgn



USER NAME =	DESIGNED - AS	REVISED -
	CHECKED - BLB	REVISED -
PLOT SCALE =	DRAWN - AS	REVISED -
PLOT DATE =	CHECKED - BLB	DATE - 11-26-18

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 045-3161**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	50
			CONTRACT NO. 61F45	
			ILLINOIS FED. AID PROJECT	

NORTH EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	49+14.25	-20.92	* 766.69
A1	49+24.25	-20.92	* 766.75
A2	49+34.25	-21.42	766.60
E. End of W. Appr. Slab	49+44.25	-21.42	766.64

FACE OF NORTH PARAPET OR CURB

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	49+14.25	-20.42	766.36
A1	49+24.25	-20.42	766.42
A2	49+34.25	-20.00	766.48
E. End of W. Appr. Slab	49+44.25	-20.00	766.52

STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	49+14.25	-3.00	766.72
A1	49+24.25	-3.00	766.78
A2	49+34.25	-3.00	766.83
E. End of W. Appr. Slab	49+44.25	-3.00	766.87

* Elevation includes 4 inch high monolithic curb.

CL OF ROADWAY & P.G.

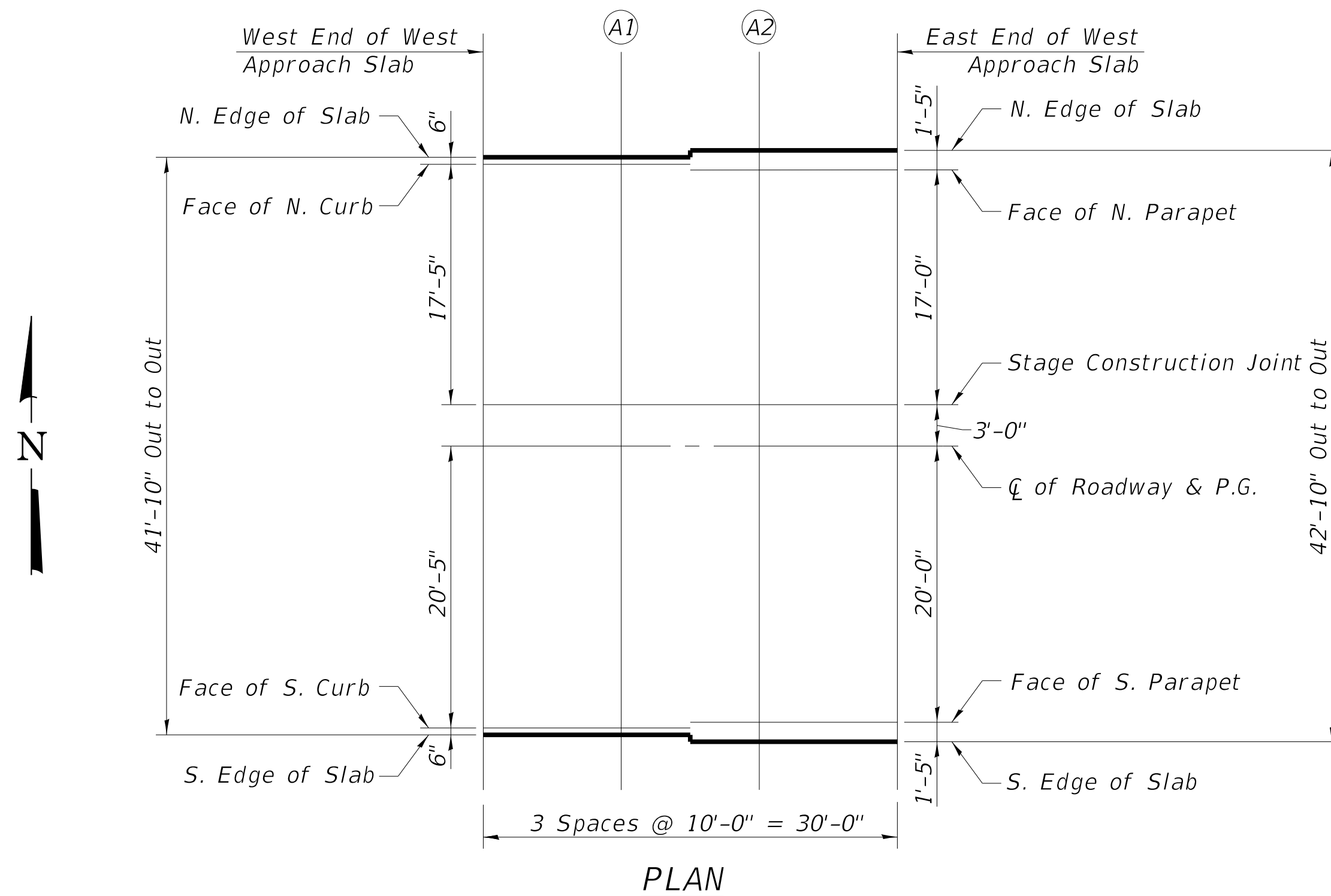
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	49+14.25	0.00	766.79
A1	49+24.25	0.00	766.84
A2	49+34.25	0.00	766.89
E. End of W. Appr. Slab	49+44.25	0.00	766.94

FACE OF SOUTH PARAPET OR CURB

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	49+14.25	20.42	766.36
A1	49+24.25	20.42	766.42
A2	49+34.25	20.00	766.48
E. End of W. Appr. Slab	49+44.25	20.00	766.52

SOUTH EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	49+14.25	20.92	* 766.69
A1	49+24.25	20.92	* 766.75
A2	49+34.25	21.42	766.60
E. End of W. Appr. Slab	49+44.25	21.42	766.64



MODEL: 07 Top of West Approach Slab Elevations
FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\DeckElev.dgn



USER NAME =	DESIGNED - AS	REVISED -
	CHECKED - BLB	REVISED -
PLOT SCALE =	DRAWN - AS	REVISED -
PLOT DATE =	CHECKED - BLB	DATE - 11-26-18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 045-3161

SHEET 7 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	51
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F45	

NORTH EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	50+55.75	-21.42	766.70
A3	50+65.75	-21.42	766.67
A4	50+75.75	-20.92	* 766.83
E. End of E. Appr. Slab	50+85.75	-20.92	* 766.78

FACE OF NORTH PARAPET OR CURB

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	50+55.75	-20.00	766.58
A3	50+65.75	-20.00	766.54
A4	50+75.75	-20.42	766.49
E. End of E. Appr. Slab	50+85.75	-20.42	766.45

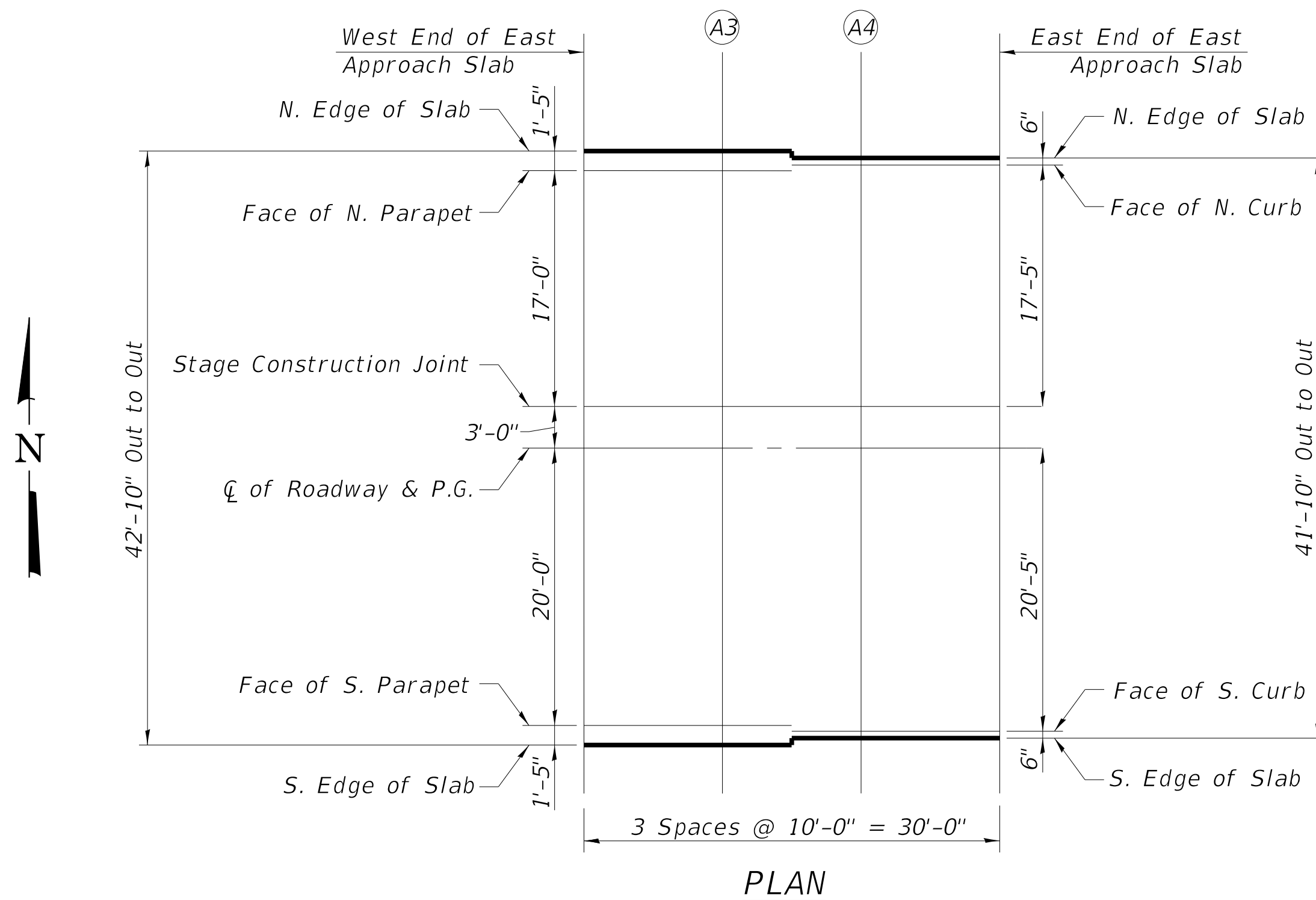
STAGE CONSTRUCTION JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	50+55.75	-3.00	766.93
A3	50+65.75	-3.00	766.90
A4	50+75.75	-3.00	766.86
E. End of E. Appr. Slab	50+85.75	-3.00	766.81

* Elevation includes 4 inch high monolithic curb.

CL OF ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	50+55.75	0.00	766.99
A3	50+65.75	0.00	766.96
A4	50+75.75	0.00	766.92
E. End of E. Appr. Slab	50+85.75	0.00	766.87



FACE OF SOUTH PARAPET OR CURB

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	50+55.75	20.00	766.58
A3	50+65.75	20.00	766.54
A4	50+75.75	20.42	766.49
E. End of E. Appr. Slab	50+85.75	20.42	766.45

SOUTH EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	50+55.75	21.42	766.70
A3	50+65.75	21.42	766.67
A4	50+75.75	20.92	* 766.83
E. End of E. Appr. Slab	50+85.75	20.92	* 766.78

MODEL: 08 Top of East Approach Slab Elevations
FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\DeckElev.dgn



USER NAME =	DESIGNED - AS	REVISED -
	CHECKED - BLB	REVISED -
PLOT SCALE =	DRAWN - AS	REVISED -
PLOT DATE =	CHECKED - BLB	DATE - 11-26-18

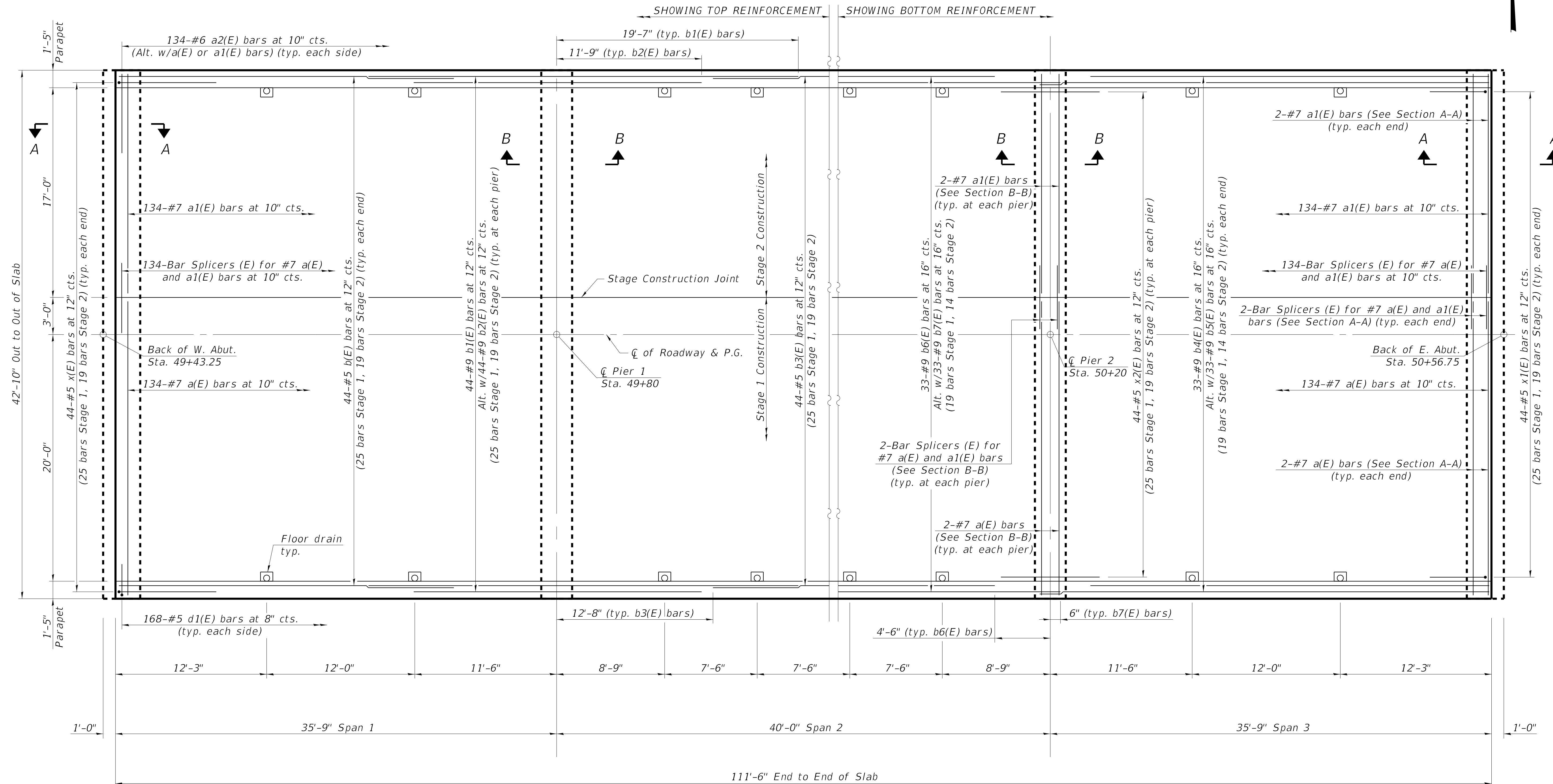
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 045-3161

SHEET 8 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	52
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F45	

MODEL: 09 Superstructure
 FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\Superstructure.dgn



SLAB PLAN



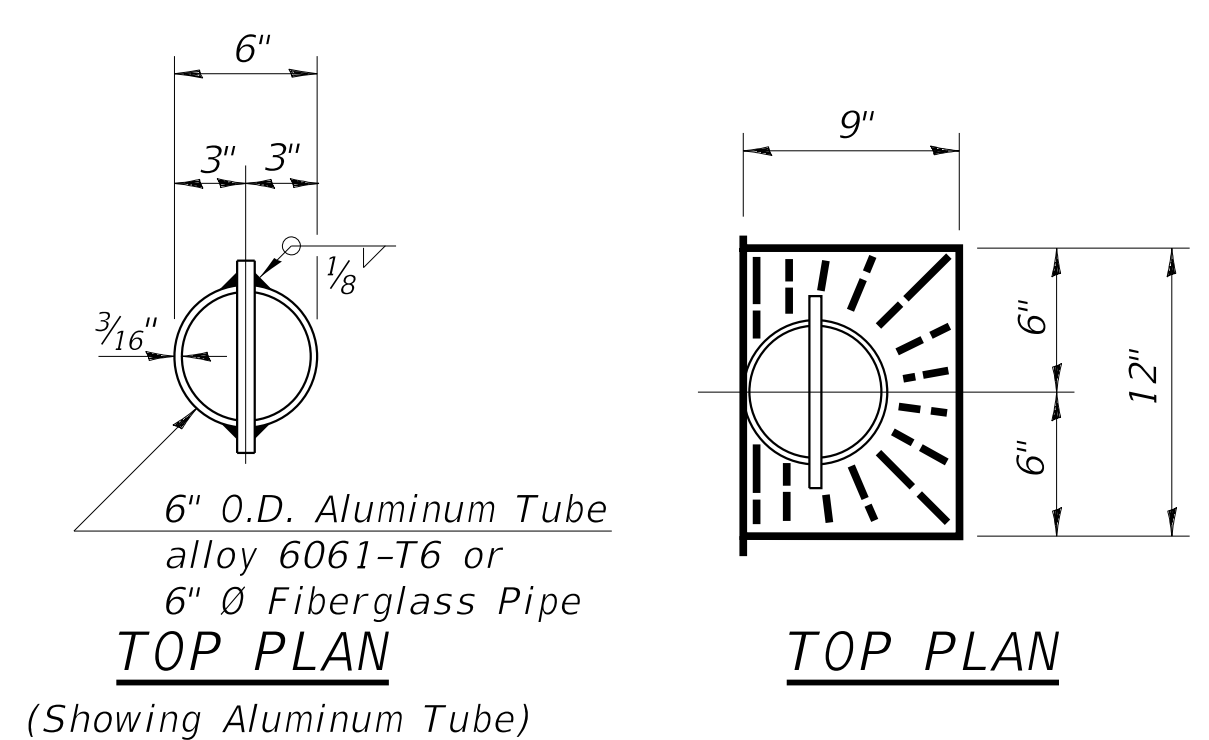
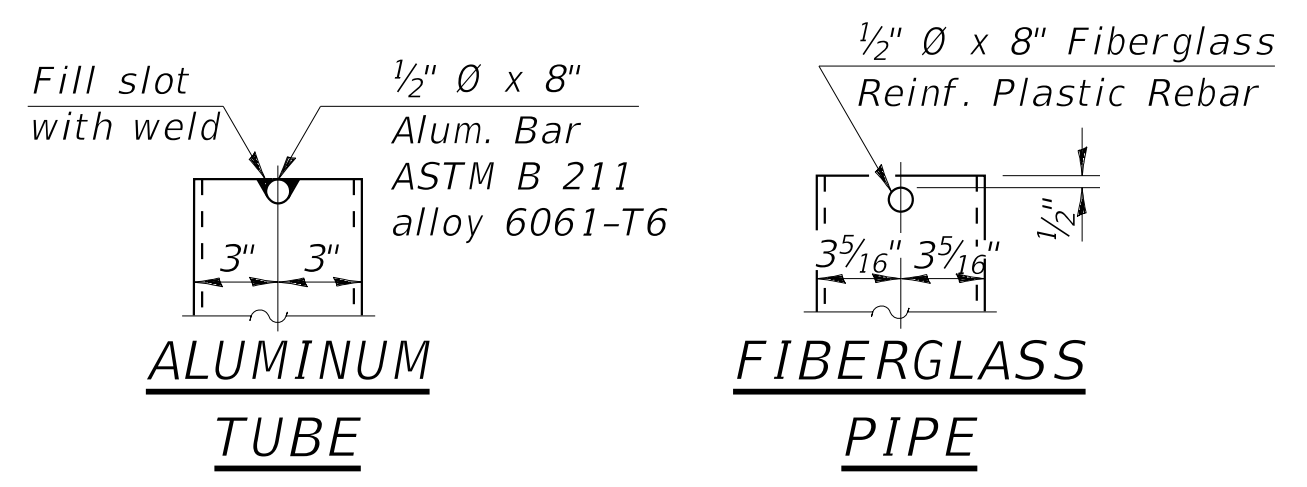
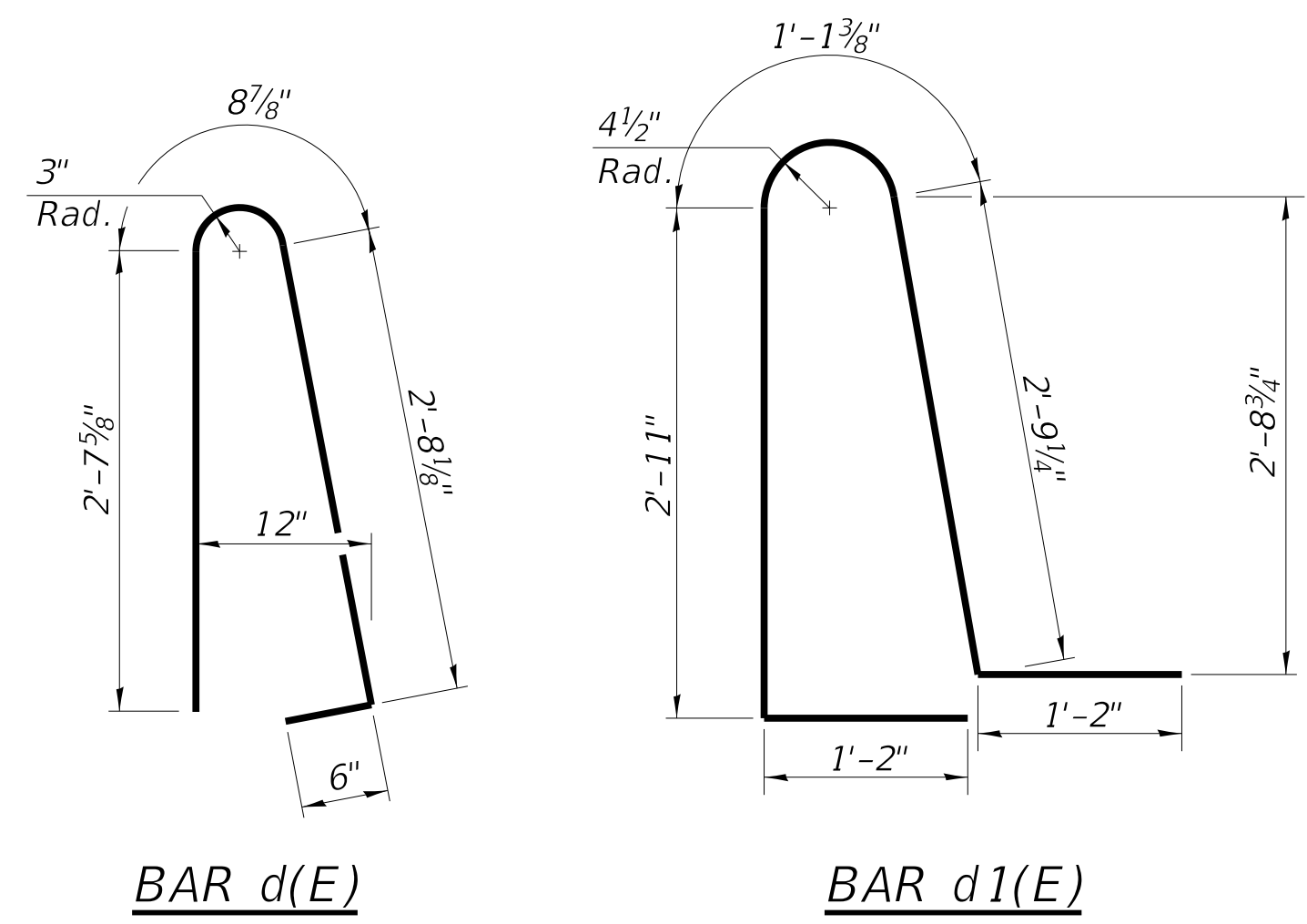
USER NAME =	DESIGNED - AS	REVISED -
	CHECKED - BLB	REVISED -
PLOT SCALE =	DRAWN - AS	REVISED -
PLOT DATE =	CHECKED - BLB	DATE - 11-26-18

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

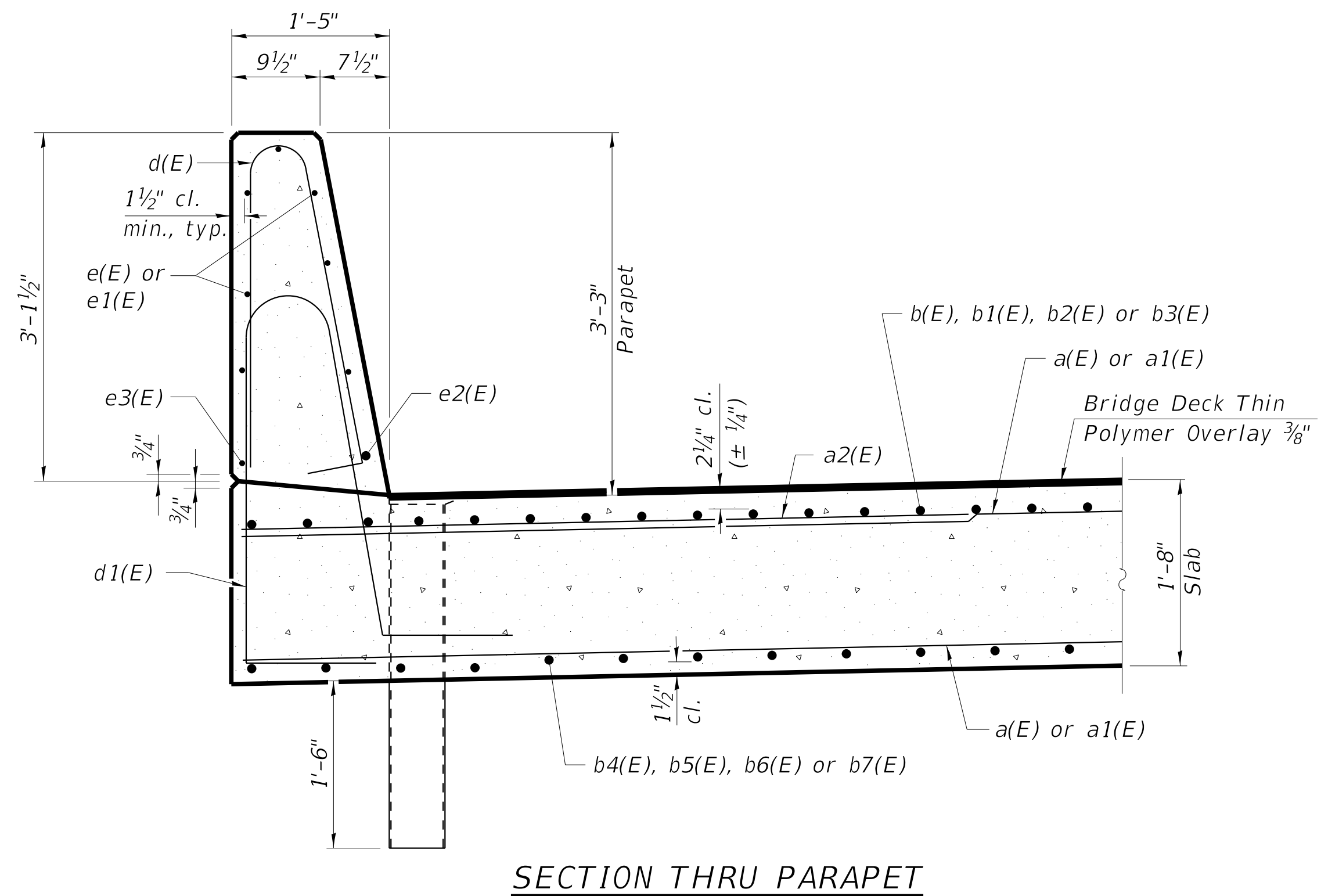
SUPERSTRUCTURE
 STRUCTURE NO. 045-3161

SHEET 9 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	53
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F45	



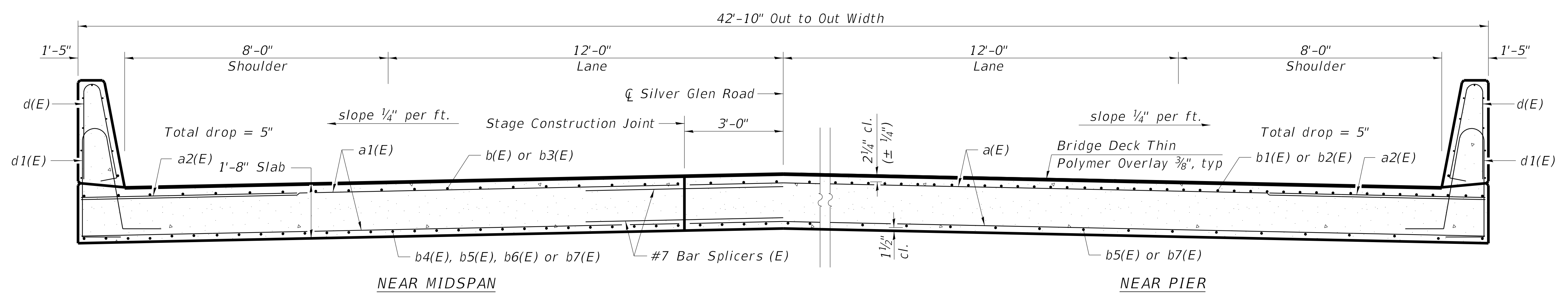
Notes:
 Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
 The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.
 The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
 The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
 Protective coat shall be applied to top and inside vertical faces of parapets only.



**SUPERSTRUCTURE
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	276	#7	24'-1"	—
a1(E)	276	#7	18'-1"	—
a2(E)	268	#6	6'-6"	—
b(E)	88	#5	27'-3"	—
b1(E)	88	#9	34'-10"	—
b2(E)	88	#9	23'-4"	—
b3(E)	44	#5	14'-8"	—
b4(E)	66	#9	33'-3"	—
b5(E)	66	#9	37'-4"	—
b6(E)	33	#9	31'-0"	—
b7(E)	33	#9	41'-0"	—
d(E)	336	#5	6'-7"	⏏
d1(E)	336	#5	9'-2"	⏏
e(E)	56	#4	17'-6"	—
e1(E)	28	#4	19'-8"	—
e2(E)	8	#8	32'-3"	—
e3(E)	8	#4	29'-8"	—
x(E)	88	#5	8'-10"	—
x1(E)	88	#5	6'-0"	—
x2(E)	88	#5	6'-10"	—
Reinforcement Bars, Epoxy Coated			Pound	80,280
Concrete Superstructure			Cu. Yd.	330.7
Bar Splicers			Each	276

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.



SLAB CROSS SECTION
 Looking East

MODEL: 10 Superstructure Details 1
 FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\Superstructure.dgn



USER NAME =	DESIGNED - AS	REVISED -
PLOT SCALE =	CHECKED - BLB	REVISED -
PLOT DATE =	DRAWN - AS	REVISED -
	CHECKED - BLB	DATE - 11-26-18

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

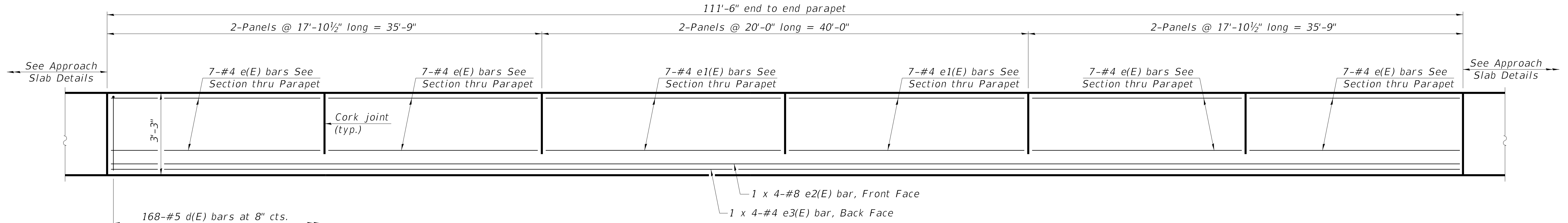
**SUPERSTRUCTURE DETAILS I
 STRUCTURE NO. 045-3161**

SHEET 10 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	54
CONTRACT NO. 61F45				

ILLINOIS FED. AID PROJECT

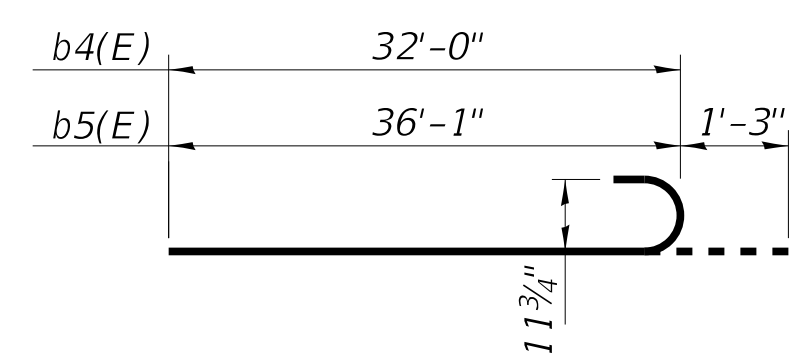
MODEL: 11 Superstructure Details II
 FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\Superstructure.dgn



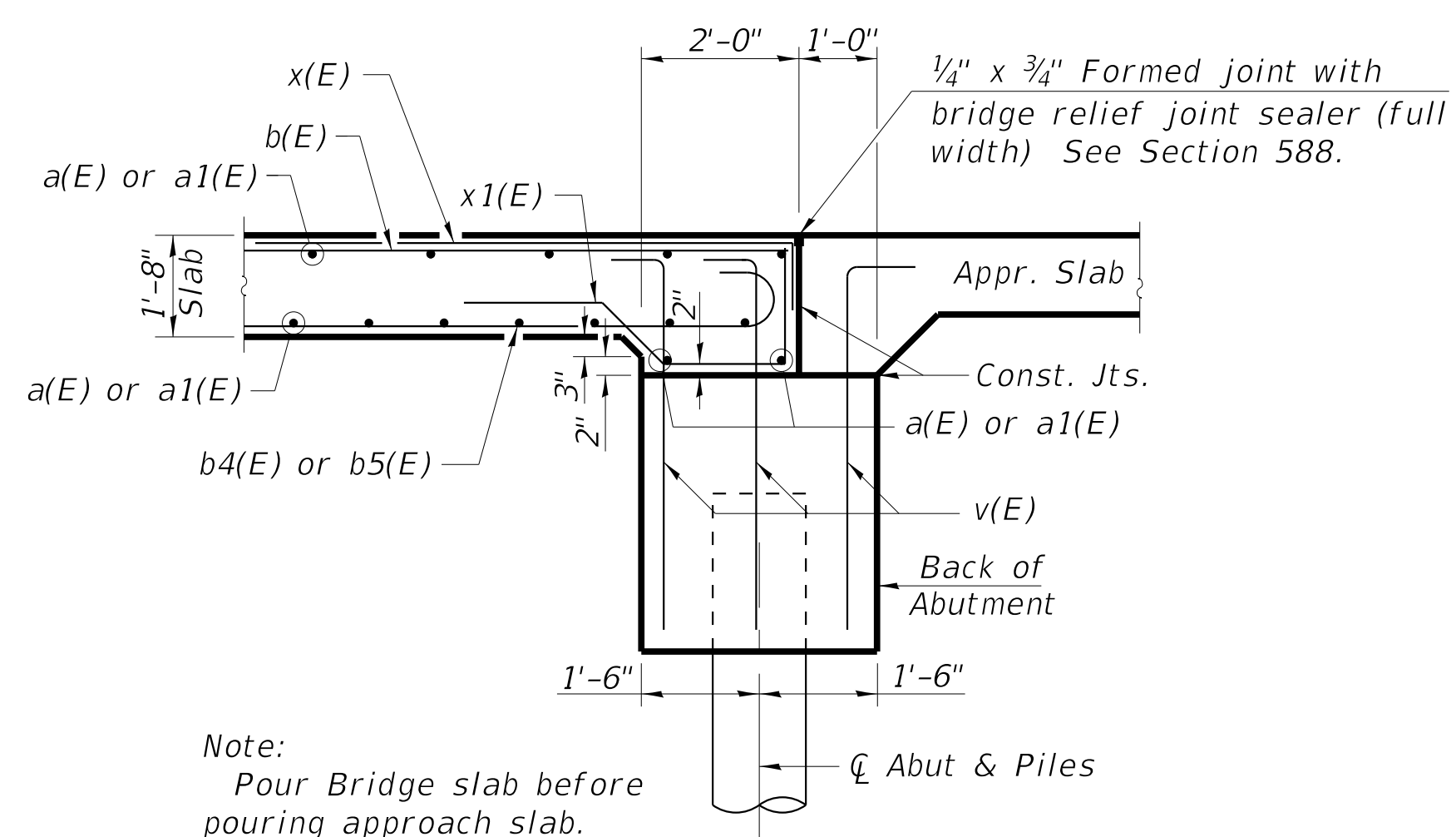
INSIDE ELEVATION OF PARAPET

MINIMUM BAR LAP

(Parapet)
 #4 bar = 2'-5"
 #8 bar = 5'-11"

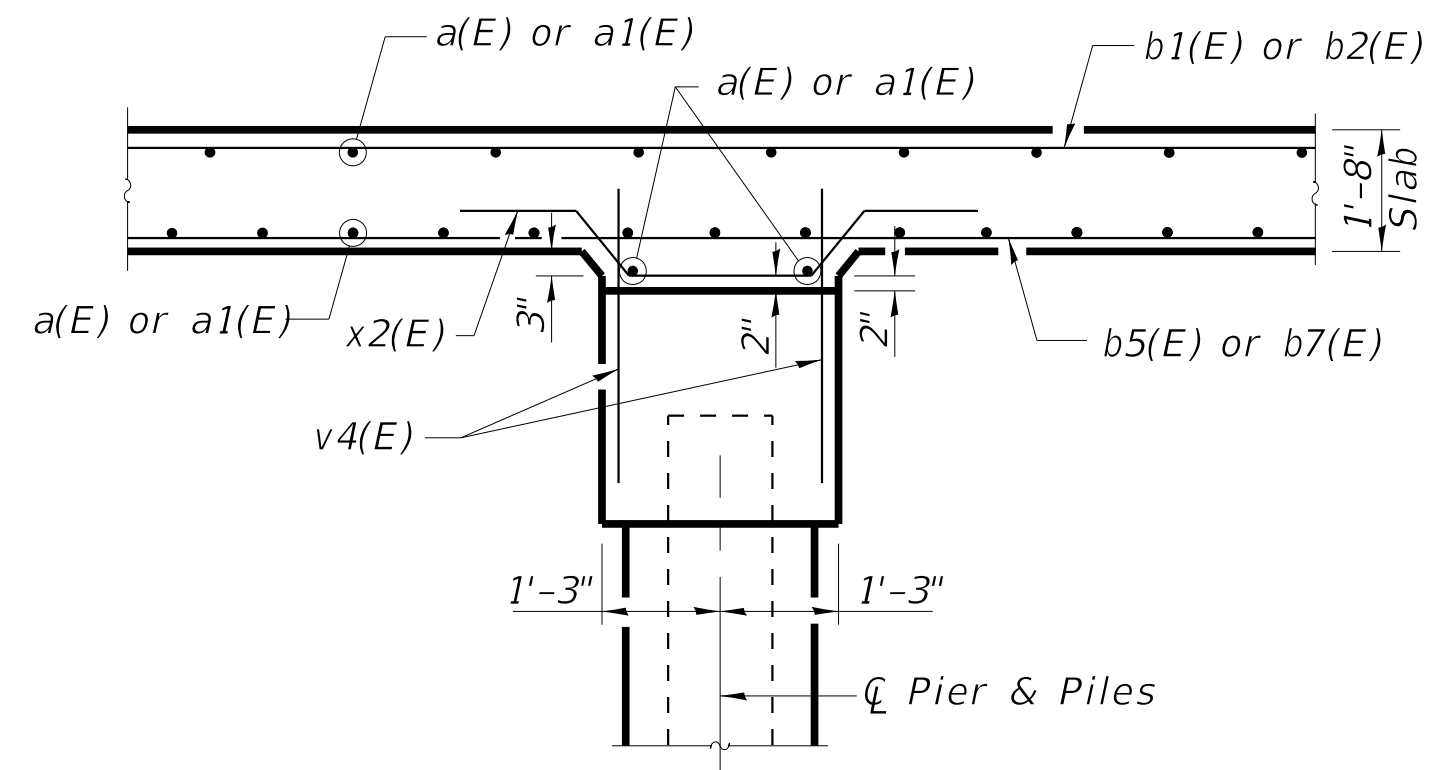


BARS b4(E) & b5(E)



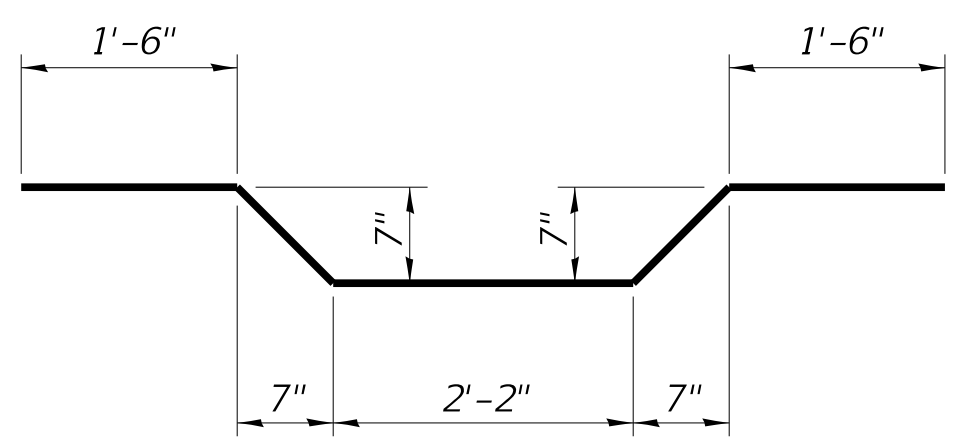
SECTION A-A THRU ABUTMENT

Note:
 Pour Bridge slab before pouring approach slab.

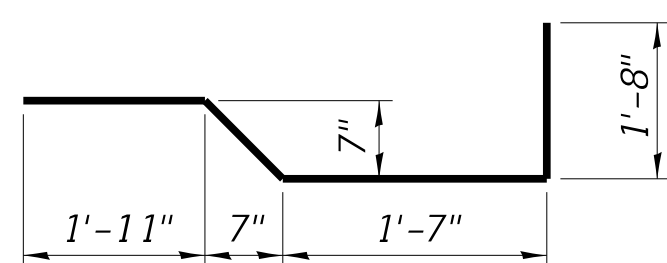


SECTION B-B THRU PIER

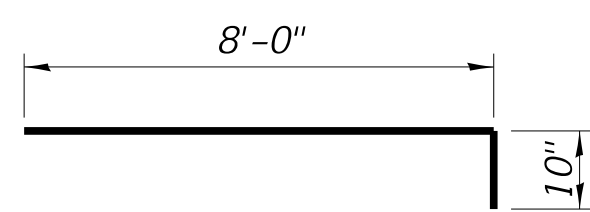
See Abutment & Pier details for v(E) and v4(E) bars.



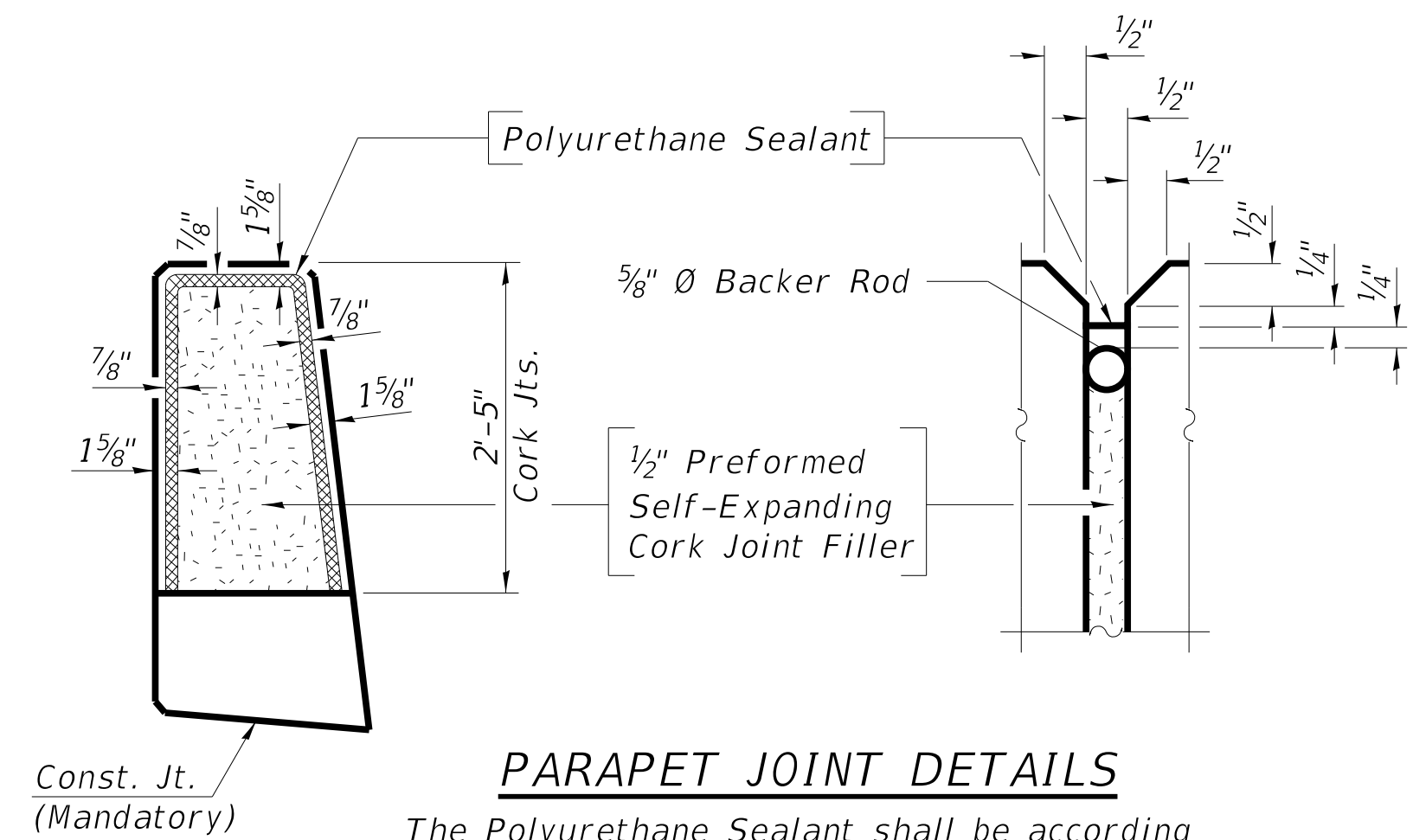
BAR x2(E)



BAR x1(E)



BAR x(E)



PARAPET JOINT DETAILS

The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

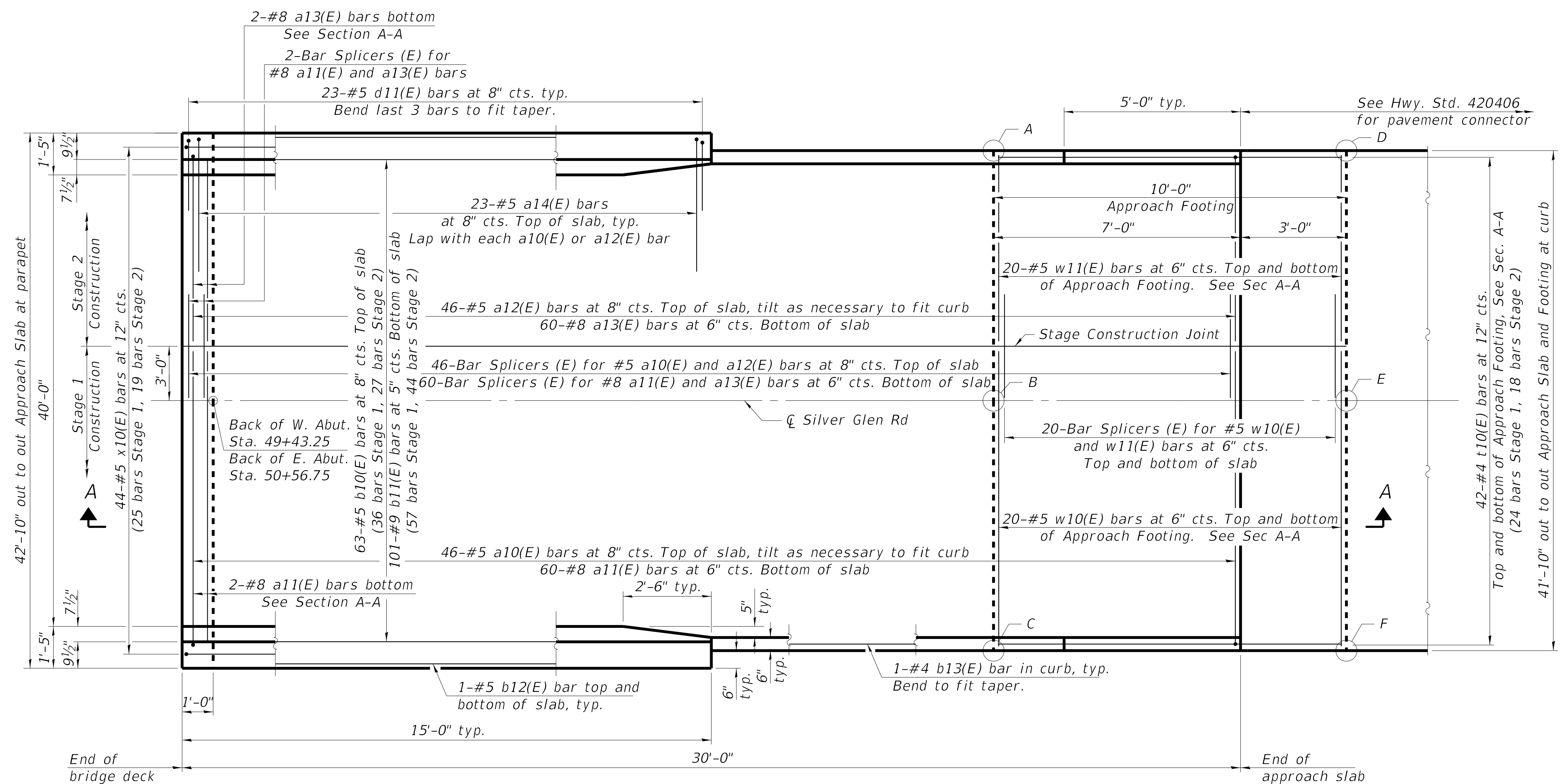
**SUPERSTRUCTURE DETAILS II
 STRUCTURE NO. 045-3161**

SHEET 11 OF 24 SHEETS

USER NAME =	DESIGNED - AS	REVISED -
PLOT SCALE =	CHECKED - BLB	REVISED -
PLOT DATE =	DRAWN - AS	REVISED -
	CHECKED - BLB	DATE - 11-26-18

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	55
CONTRACT NO. 61F45				

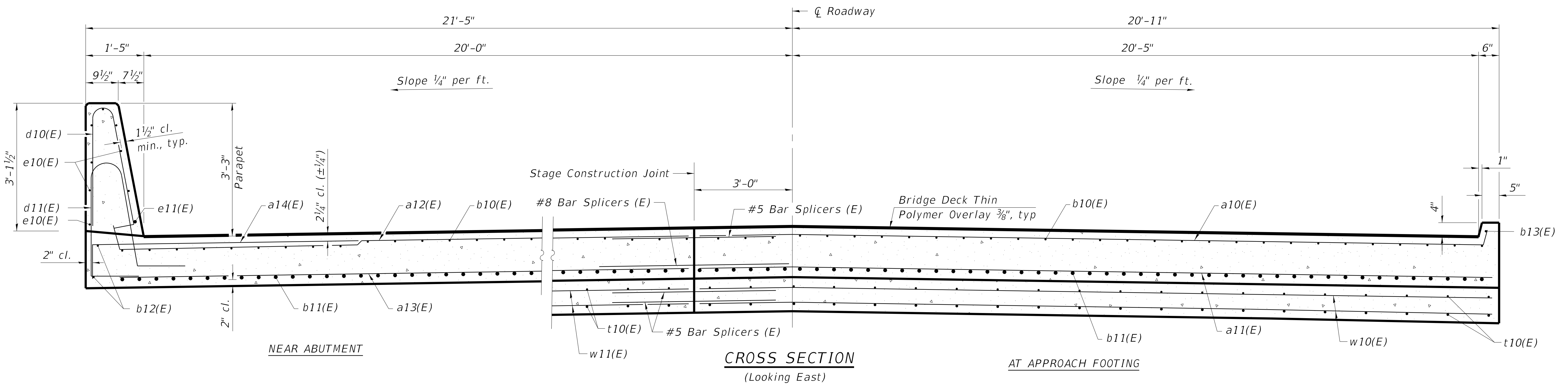
ILLINOIS FED. AID PROJECT



PLAN

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point	West Approach		East Approach	
	Top	Bottom	Top	Bottom
A	765.14	764.31	765.22	764.39
B	765.58	764.75	765.65	764.82
C	765.14	764.31	765.22	764.39
D	765.08	764.25	765.17	764.34
E	765.52	764.69	765.61	764.78
F	765.08	764.25	765.17	764.34



CROSS SECTION (Looking East)

(Sheet 1 of 2)

MODEL: 12 Bridge Approach Slab Details
 FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCAN\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\Approach.dgn



USER NAME =	DESIGNED - AS	REVISED -
PLOT SCALE =	CHECKED - BLB	REVISED -
PLOT DATE =	DRAWN - AS	REVISED -
	CHECKED - BLB	DATE - 11-26-18

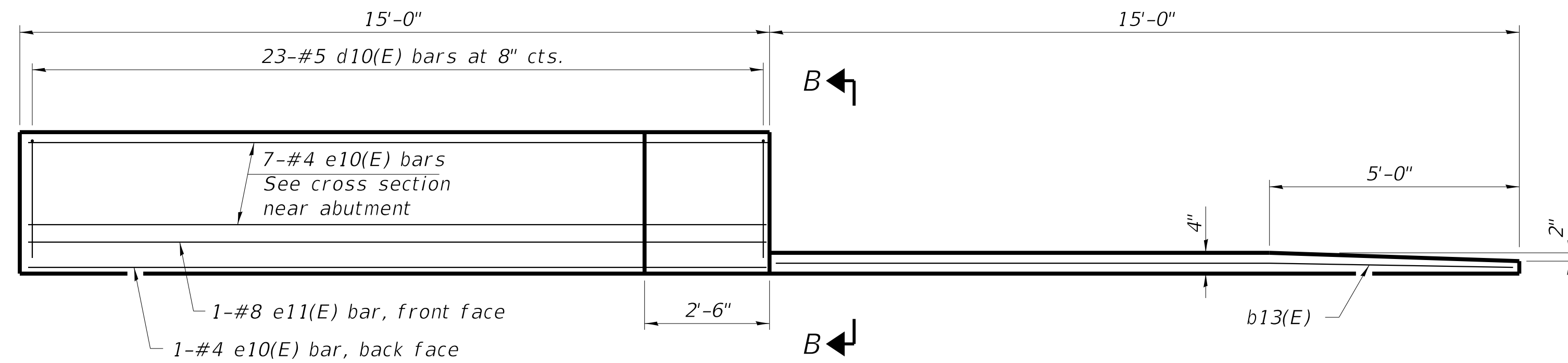
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
 STRUCTURE NO. 045-3161

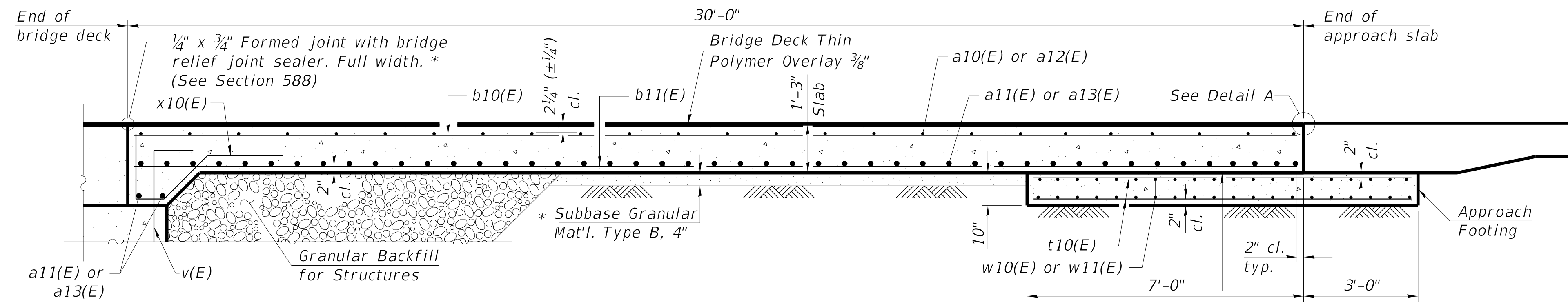
SHEET 12 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	56
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT				

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.
 The approach footing maximum applied service bearing pressure (Qmax) = 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.
 See sheets 14 and 15 of 24 for v(E) bar details.
 Protective coat shall be applied to top and inside vertical faces of parapets only.

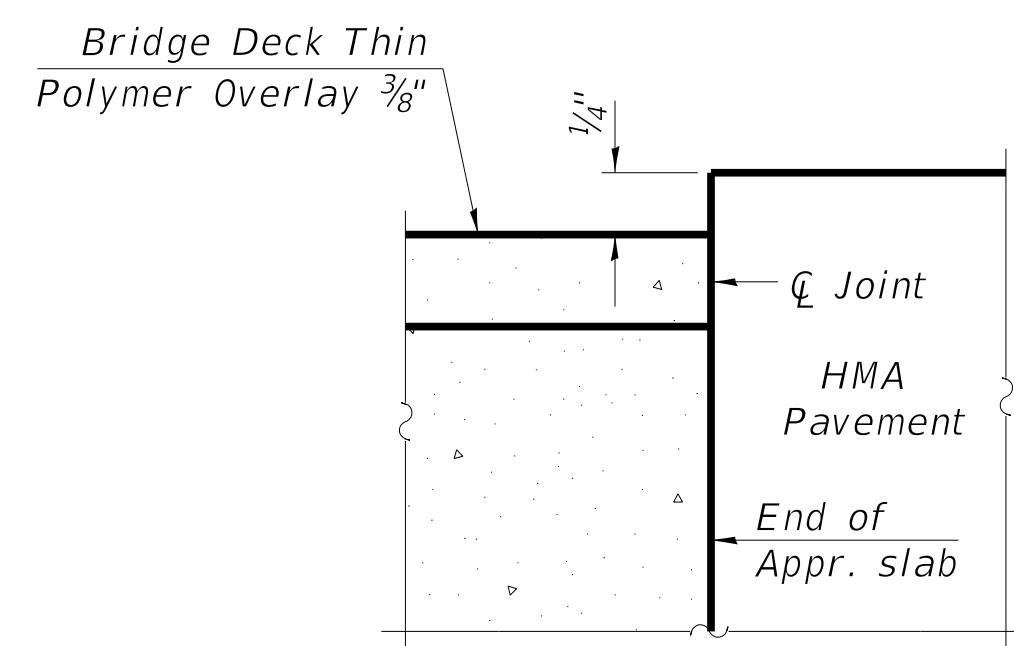


INSIDE ELEVATION OF PARAPET AND CURB

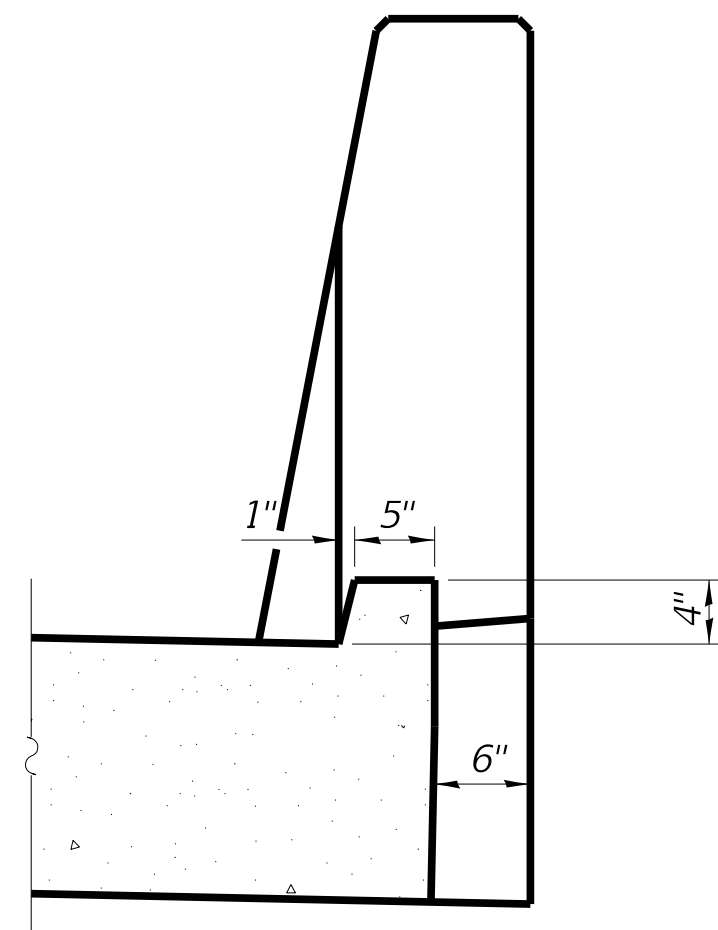


SECTION A-A

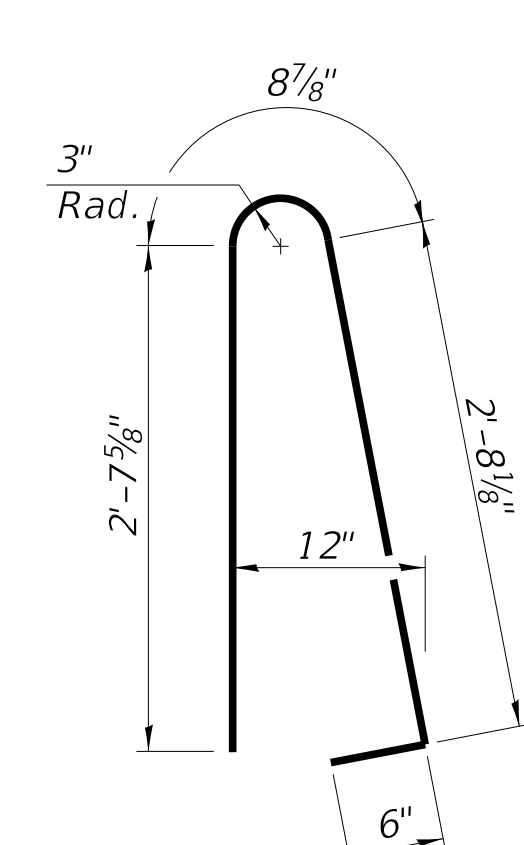
* Cost included with Concrete Superstructure (Approach Slab).



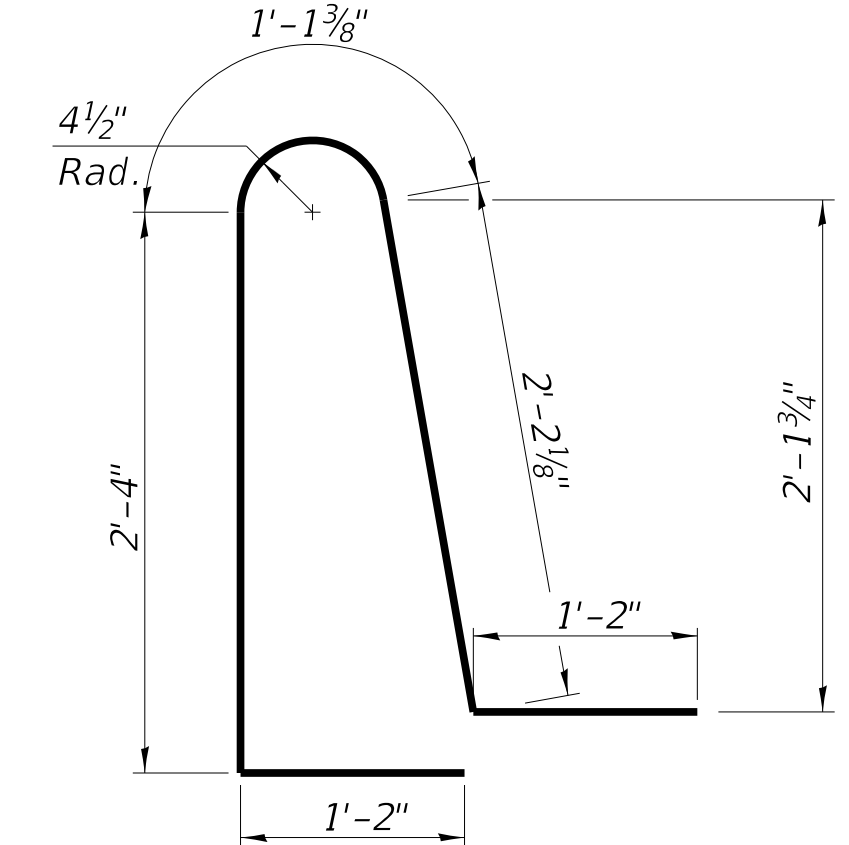
DETAIL A



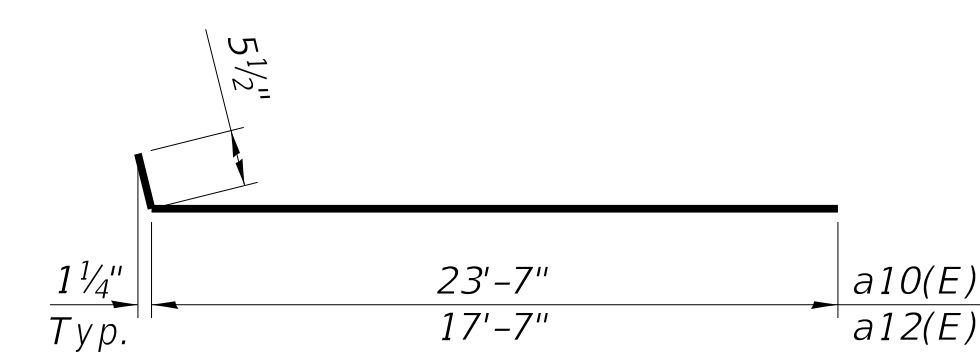
VIEW B-B



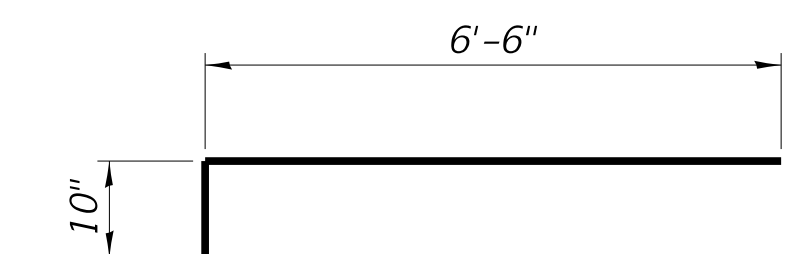
BAR d10(E)



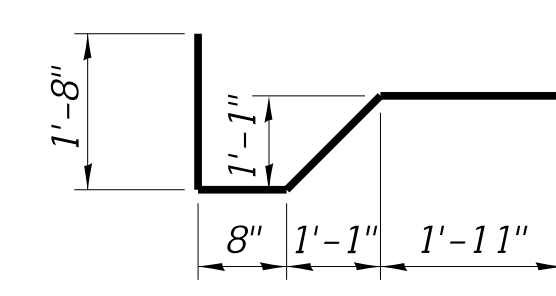
BAR d11(E)



BARS a10(E) & a12(E)



BAR a14(E)



BAR x10(E)

**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	92	#5	24'-1"	—
a11(E)	124	#8	23'-7"	—
a12(E)	92	#5	18'-1"	—
a13(E)	124	#8	17'-7"	—
a14(E)	92	#5	7'-4"	—
b10(E)	126	#5	29'-8"	—
b11(E)	202	#9	29'-8"	—
b12(E)	8	#5	14'-8"	—
b13(E)	4	#4	14'-8"	—
d10(E)	92	#5	6'-7"	⤴
d11(E)	92	#5	8'-0"	⤴
e10(E)	32	#4	14'-8"	—
e11(E)	4	#8	14'-8"	—
t10(E)	168	#4	9'-8"	—
w10(E)	80	#5	23'-7"	—
w11(E)	80	#5	17'-7"	—
x10(E)	80	#5	5'-10"	⤴
Concrete Superstructure		Cu. Yd.	3.9	
Concrete Superstructure (Approach Slab)		Cu. Yd.	121.9	
Concrete Structures		Cu. Yd.	25.8	
Reinforcement Bars, Epoxy Coated		Pound	49,740	
Bar Splicers		Each	296	

(Sheet 2 of 2)

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 045-3161**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	57
				CONTRACT NO. 61F45

SHEET 13 OF 24 SHEETS

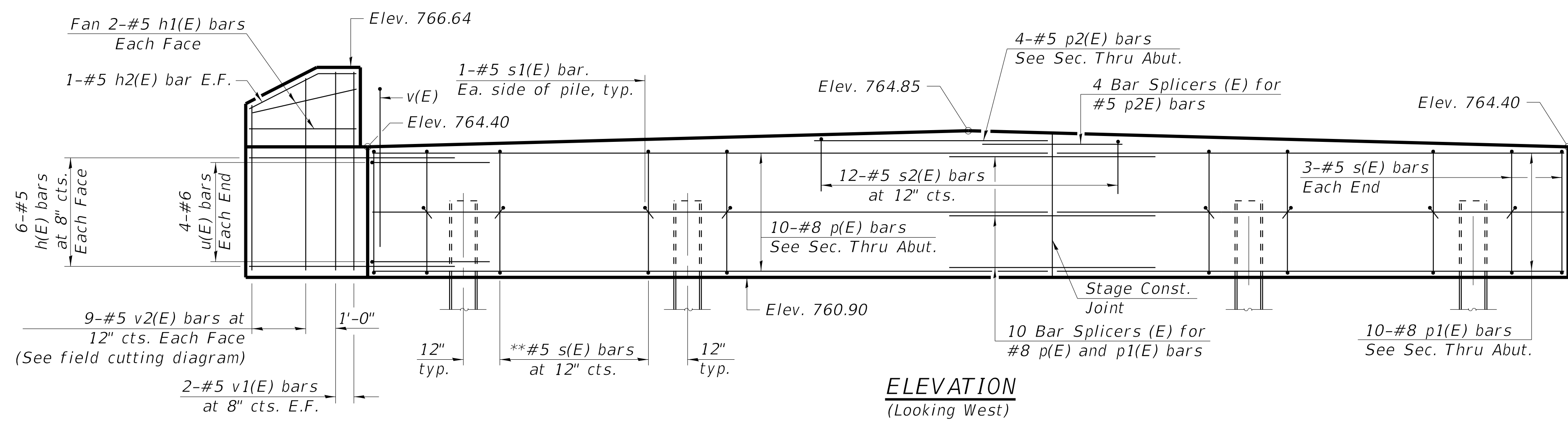
ILLINOIS FED. AID PROJECT

MODEL: 13 Bridge Approach Slab Details
 FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\Approach.dgn
 12/17/2018 4:08:19 PM



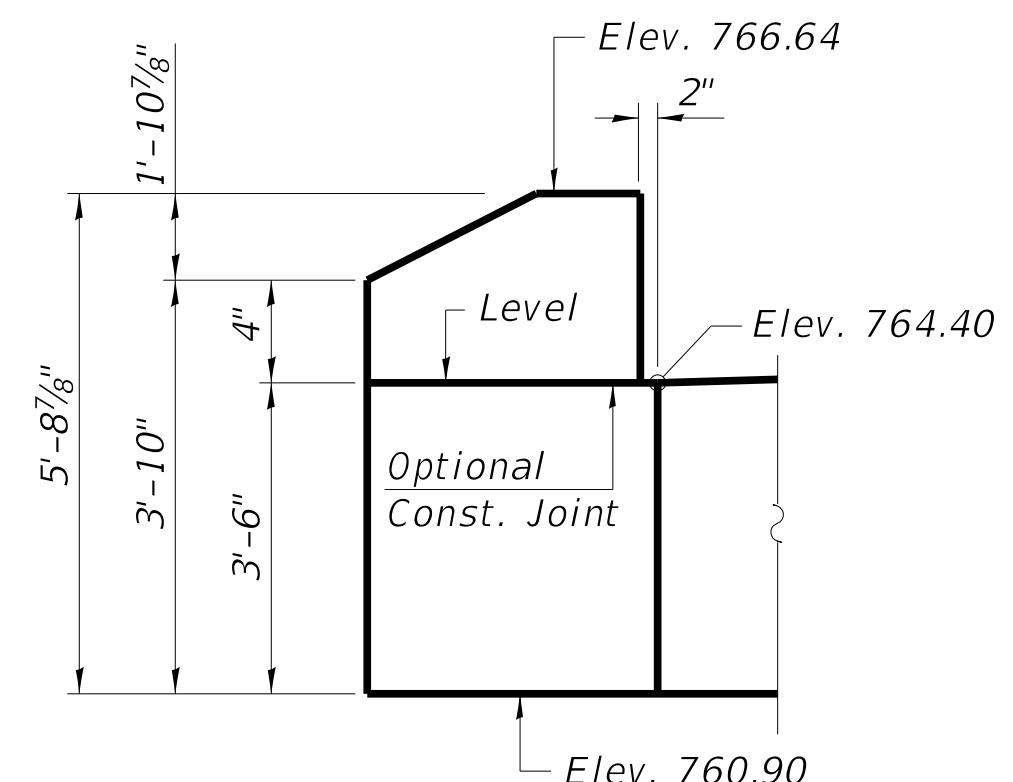
USER NAME =	DESIGNED - AS	REVISED -
PLOT SCALE =	CHECKED - BLB	REVISED -
PLOT DATE =	DRAWN - AS	REVISED -
	CHECKED - BLB	DATE - 11-26-18

MODEL: 14 West Abutment
 FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\Abutments.dgn

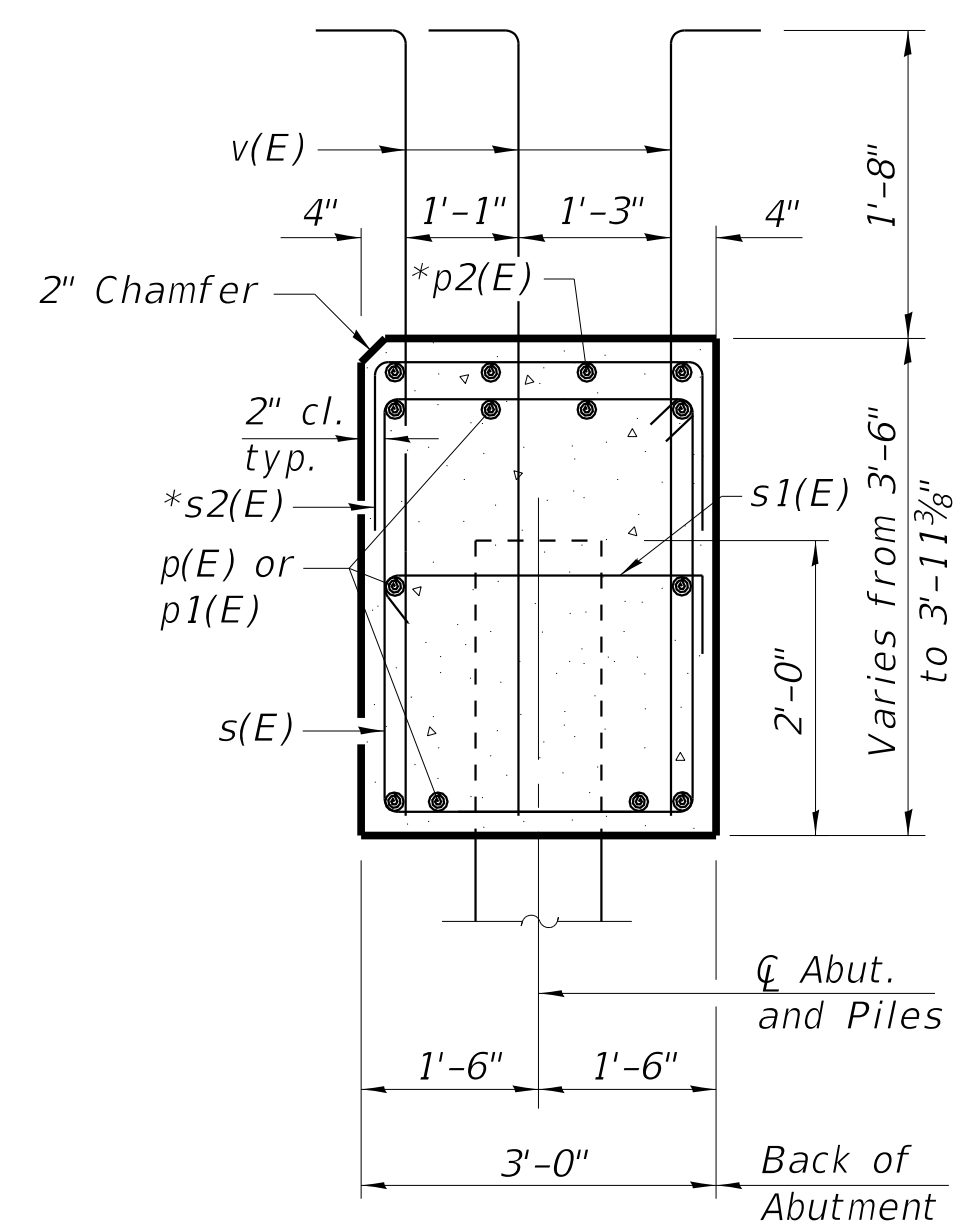


ELEVATION
(Looking West)

** 7-#5 s(E) bars at 12" cts. btwn. piles at 8'-0" spacing
 3-#5 s(E) bars at 12" cts btwn. piles at 4'-0" spacing

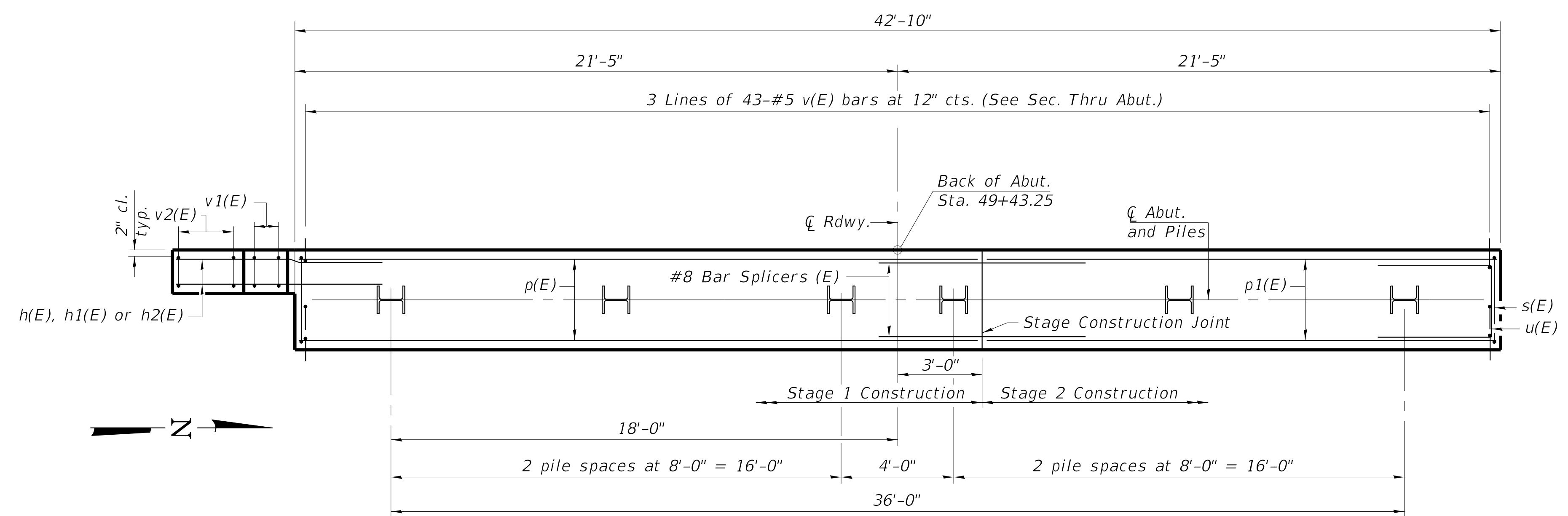


WINGWALL ELEVATION
(Showing dimensions)



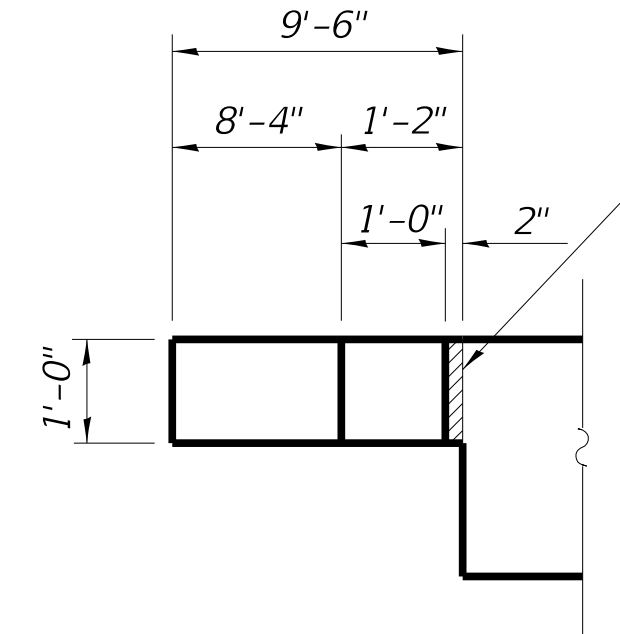
SEC. THRU ABUT.

*See Elevation view for bar locations



PLAN

2" PJF (per Article 1051.09 of the Standard Specifications) bonded to wingwall with suitable adhesive as recommended by supplier. Cost included with Concrete Structures.



WINGWALL PLAN
(Showing dimensions)

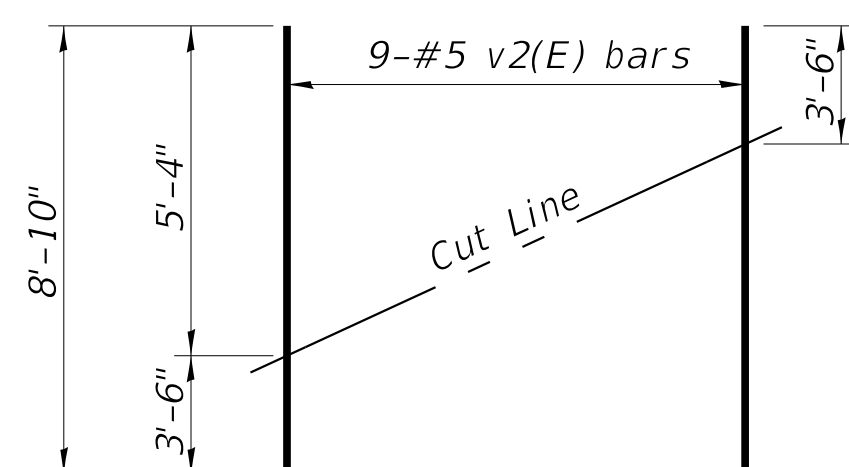
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	12	#5	12'-1"	—
h1(E)	4	#5	9'-0"	—
h2(E)	2	#5	9'-2"	—
p(E)	10	#8	24'-1"	—
p1(E)	10	#8	18'-1"	—
p2(E)	4	#5	8'-4"	—
s(E)	37	#5	12'-7"	□
s1(E)	12	#5	3'-8"	□
s2(E)	12	#5	4'-8"	□
u(E)	8	#6	10'-3"	□
v(E)	129	#5	5'-10"	□
v1(E)	4	#5	5'-5"	□
v2(E)	9	#5	8'-10"	□
Structure Excavation		Cu. Yd.	106	
Concrete Structures		Cu. Yd.	19.4	
Reinforcement Bars, Epoxy Coated		Pound	2,920	
Furnishing Steel Piles HP12x53		Foot	100	
Driving Piles		Foot	100	
Test Pile Steel HP12x53		Each	1	
Bar Splicers		Each	14	
Pile Shoes		Each	6	

For details of piles see sheet 20 of 24.

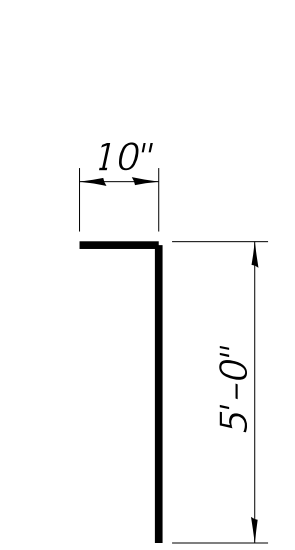
PILE DATA

Type: Steel - HP12x53 with pile shoes
 Nominal Required Bearing: 419 Kips
 Factored Resistance Available: 209 Kips
 Est. Length: 20'
 No. Production Piles: 5
 No. Test Piles: 1

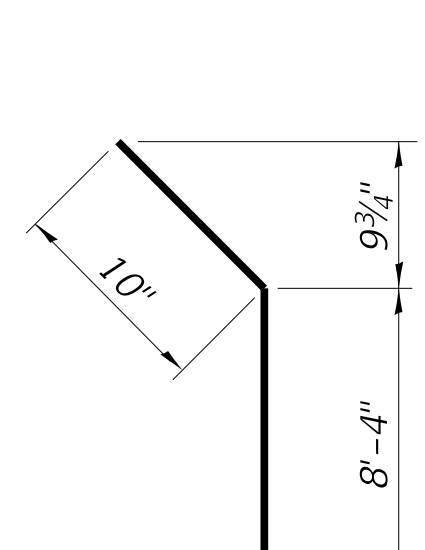


FIELD CUTTING DIAGRAM

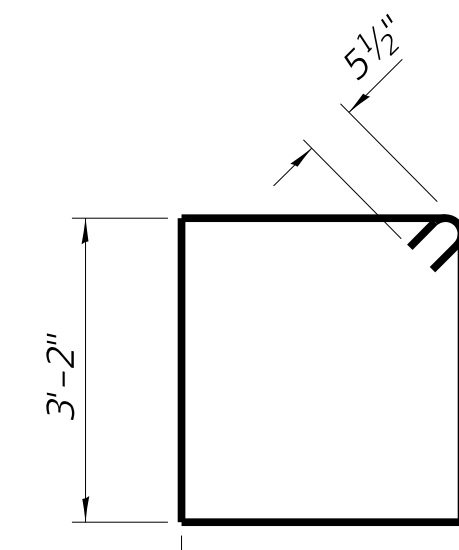
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



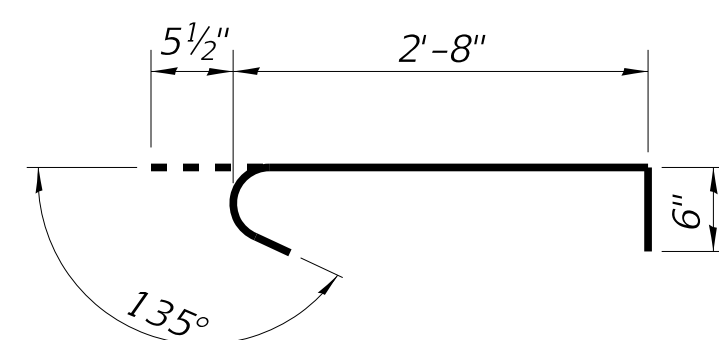
BAR v(E)



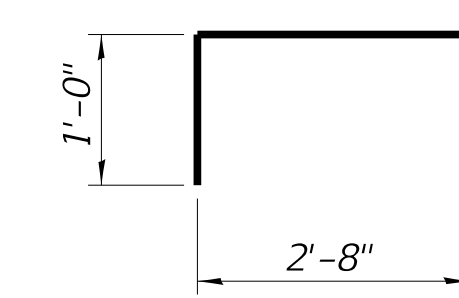
BAR h2(E)



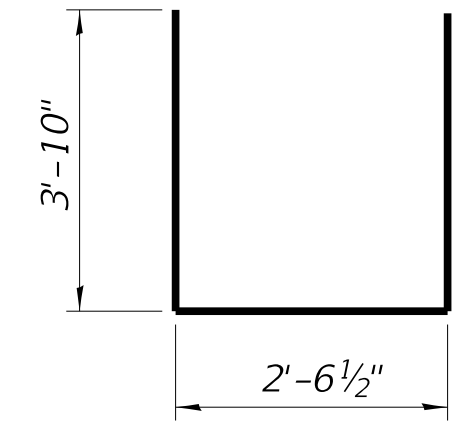
BAR s(E)



BAR s1(E)



BAR s2(E)



BAR u(E)



USER NAME =	DESIGNED - AS	REVISED -
PLOT SCALE =	CHECKED - BLB	REVISED -
PLOT DATE =	DRAWN - AS	REVISED -
	CHECKED - BLB	DATE - 11-26-18

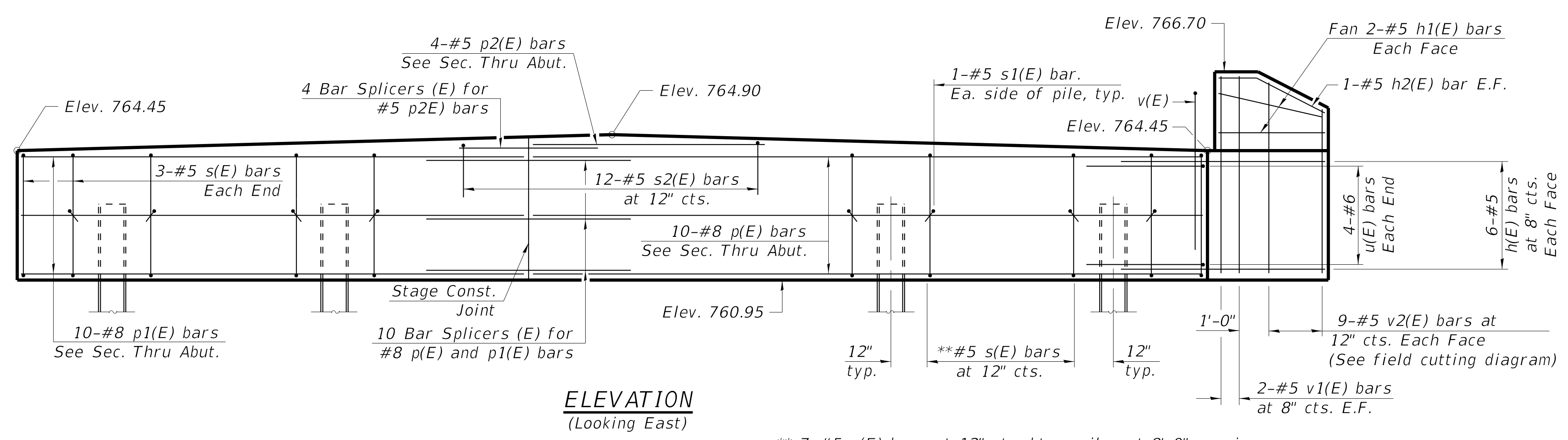
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
 STRUCTURE NO. 045-3161

SHEET 14 OF 24 SHEETS

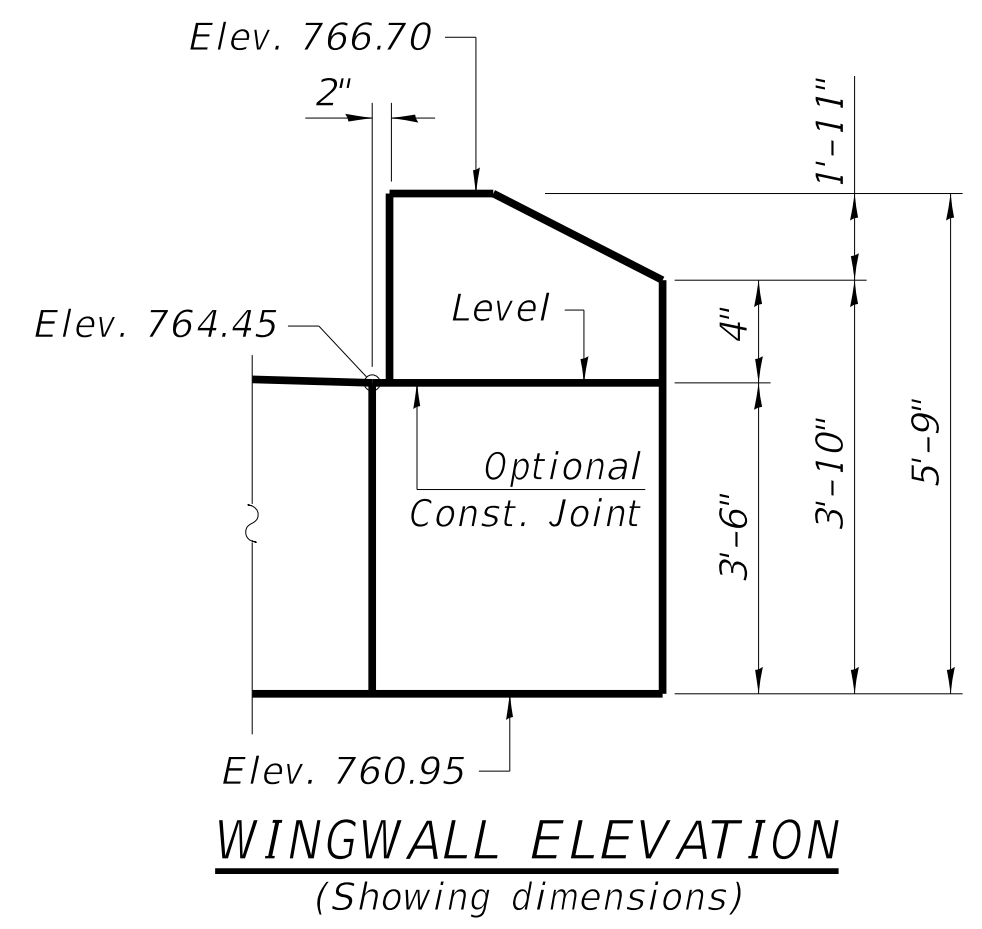
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	58
CONTRACT NO. 61F45			ILLINOIS FED. AID PROJECT	

MODEL: 15 East Abutment
 FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\Abutments.dgn

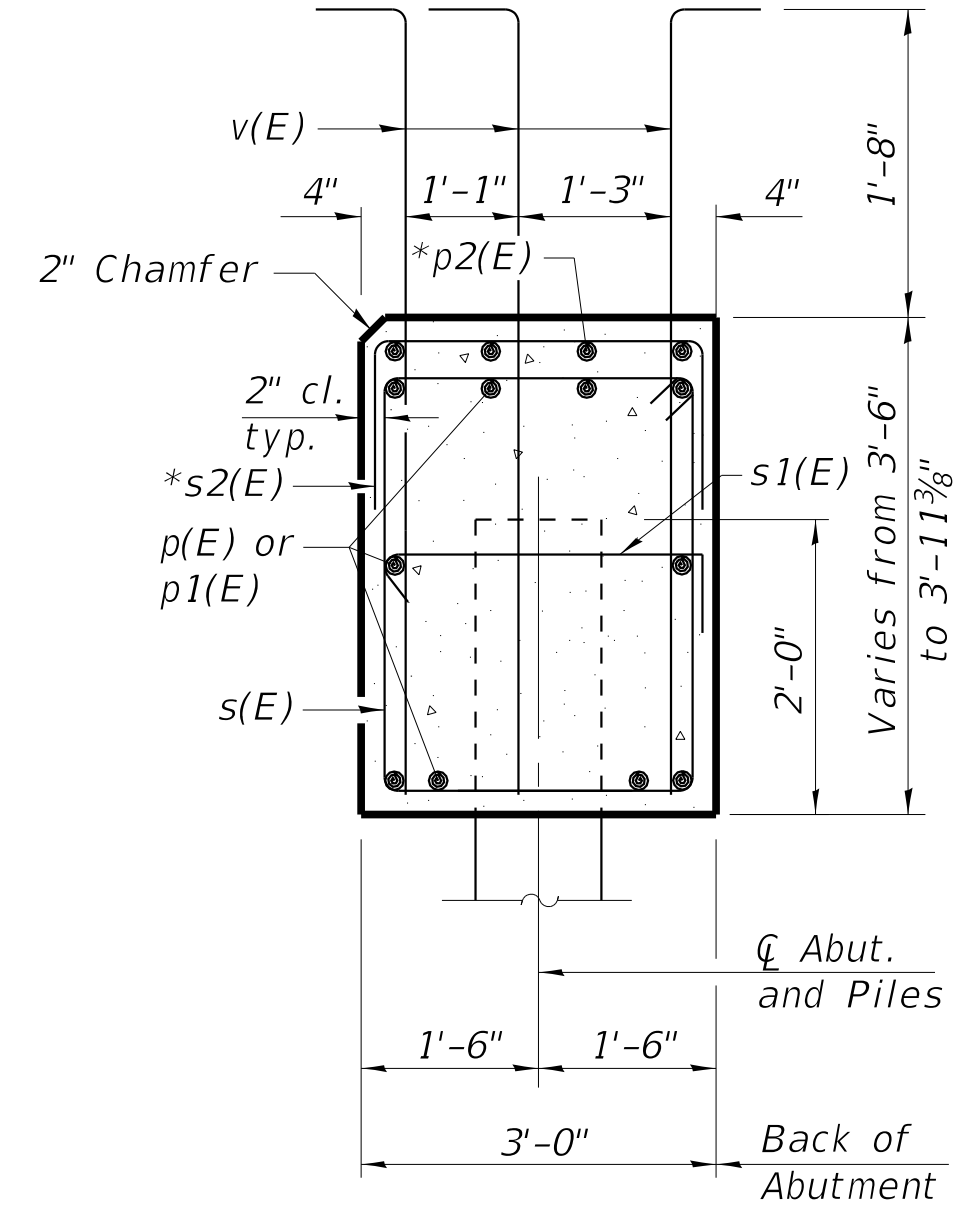


ELEVATION
(Looking East)

** 7-#5 s(E) bars at 12" cts. btwn. piles at 8'-0" spacing
 3-#5 s(E) bars at 12" cts btwn. piles at 4'-0" spacing



WINGWALL ELEVATION
(Showing dimensions)

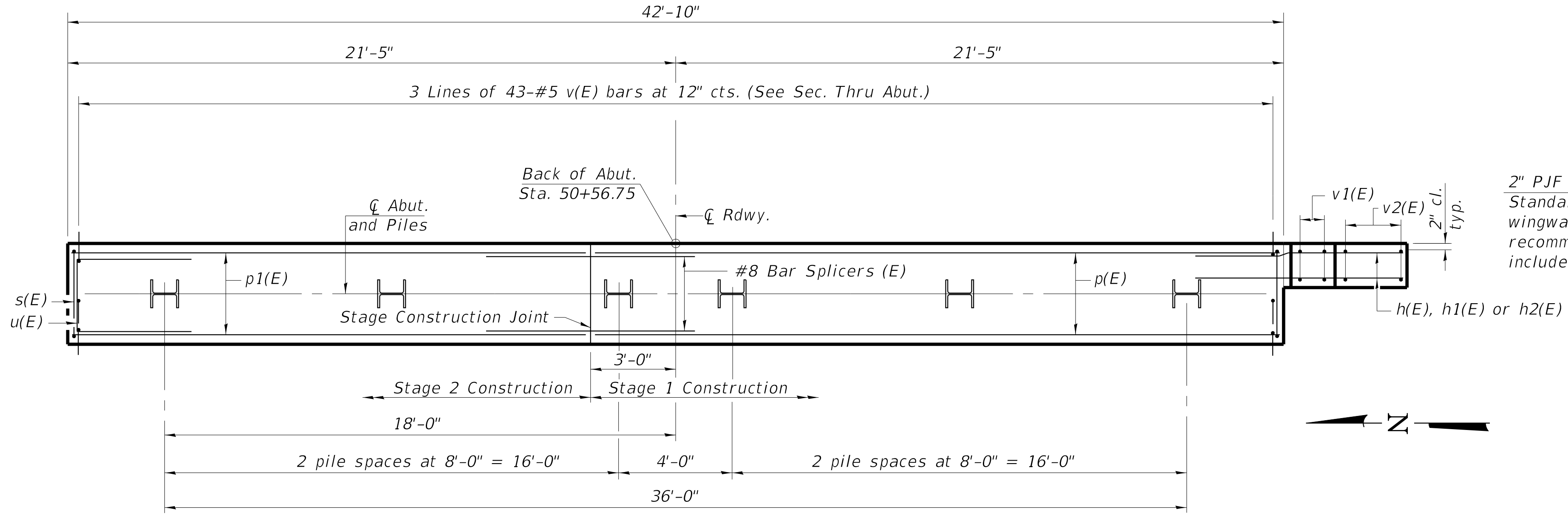


SEC. THRU ABUT.
*See Elevation view for bar locations

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	12	#5	12'-1"	—
h1(E)	4	#5	9'-0"	—
h2(E)	2	#5	9'-2"	—
p(E)	10	#8	24'-1"	—
p1(E)	10	#8	18'-1"	—
p2(E)	4	#5	8'-4"	—
s(E)	37	#5	12'-7"	□
s1(E)	12	#5	3'-8"	□
s2(E)	12	#5	4'-8"	□
u(E)	8	#6	10'-3"	□
v(E)	129	#5	5'-10"	□
v1(E)	4	#5	5'-5"	□
v2(E)	9	#5	8'-10"	□
Structure Excavation		Cu. Yd.	104	
Concrete Structures		Cu. Yd.	19.4	
Reinforcement Bars, Epoxy Coated		Pound	2,920	
Furnishing Steel Piles HP12x53		Foot	105	
Driving Piles		Foot	105	
Test Pile Steel HP12x53		Each	1	
Bar Splicers		Each	14	
Pile Shoes		Each	6	

For details of piles see sheet 20 of 24.

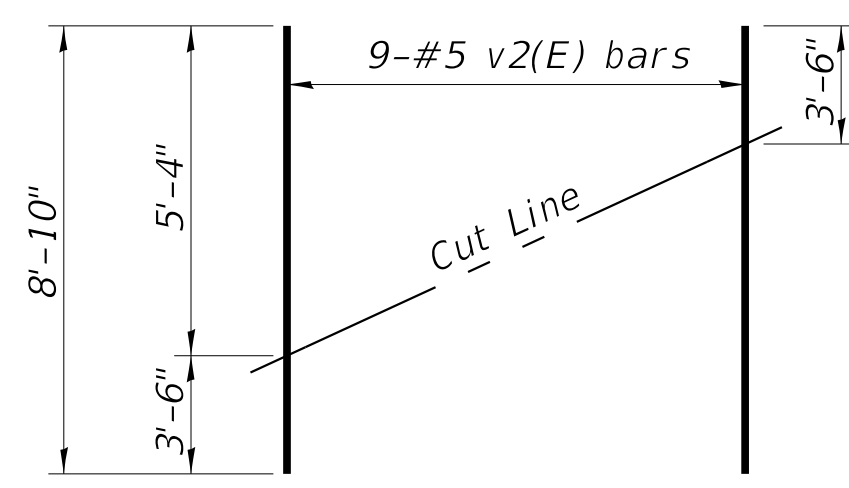


WINGWALL PLAN
(Showing dimensions)

2" PJF (per Article 1051.09 of the Standard Specifications) bonded to wingwall with suitable adhesive as recommended by supplier. Cost included with Concrete Structures.

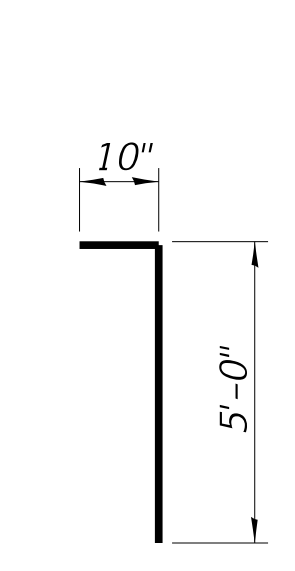
PILE DATA

Type: Steel - HP12x53 with pile shoes
 Nominal Required Bearing: 419 Kips
 Factored Resistance Available: 209 Kips
 Est. Length: 21'
 No. Production Piles: 5
 No. Test Piles: 1

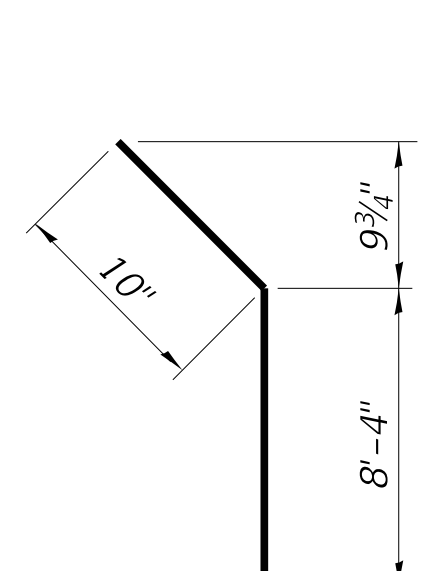


FIELD CUTTING DIAGRAM

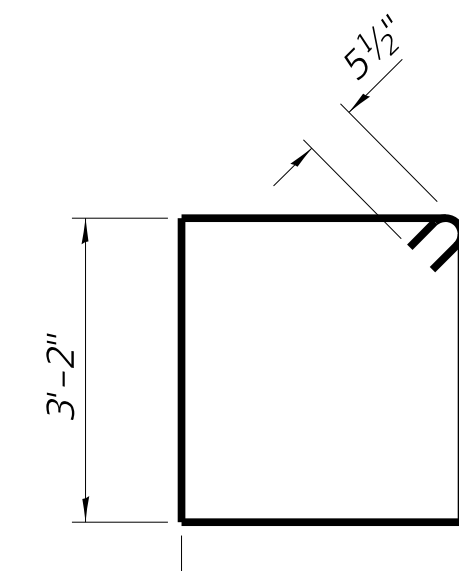
Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



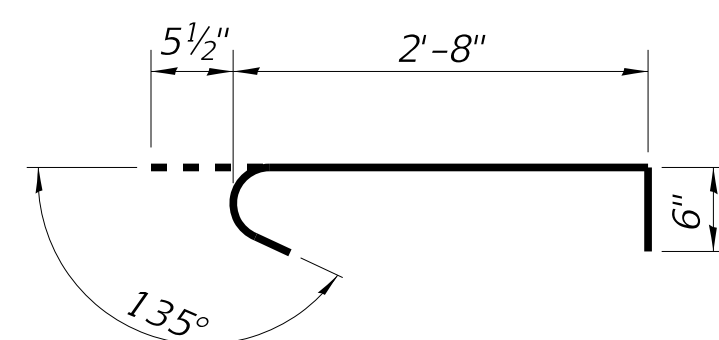
BAR v(E)



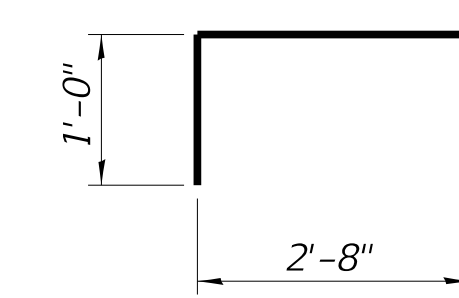
BAR h2(E)



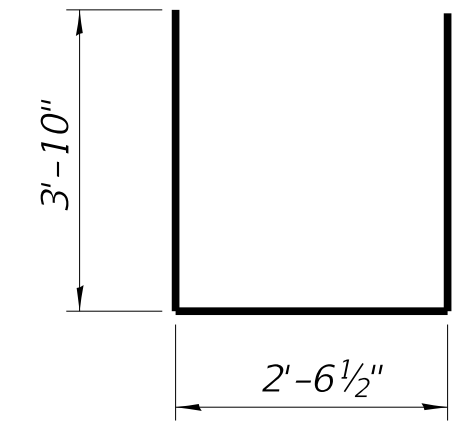
BAR s(E)



BAR s1(E)



BAR s2(E)



BAR u(E)



USER NAME =	DESIGNED - AS	REVISED -
PLOT SCALE =	CHECKED - BLB	REVISED -
PLOT DATE =	DRAWN - AS	REVISED -
	CHECKED - BLB	DATE - 11-26-18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

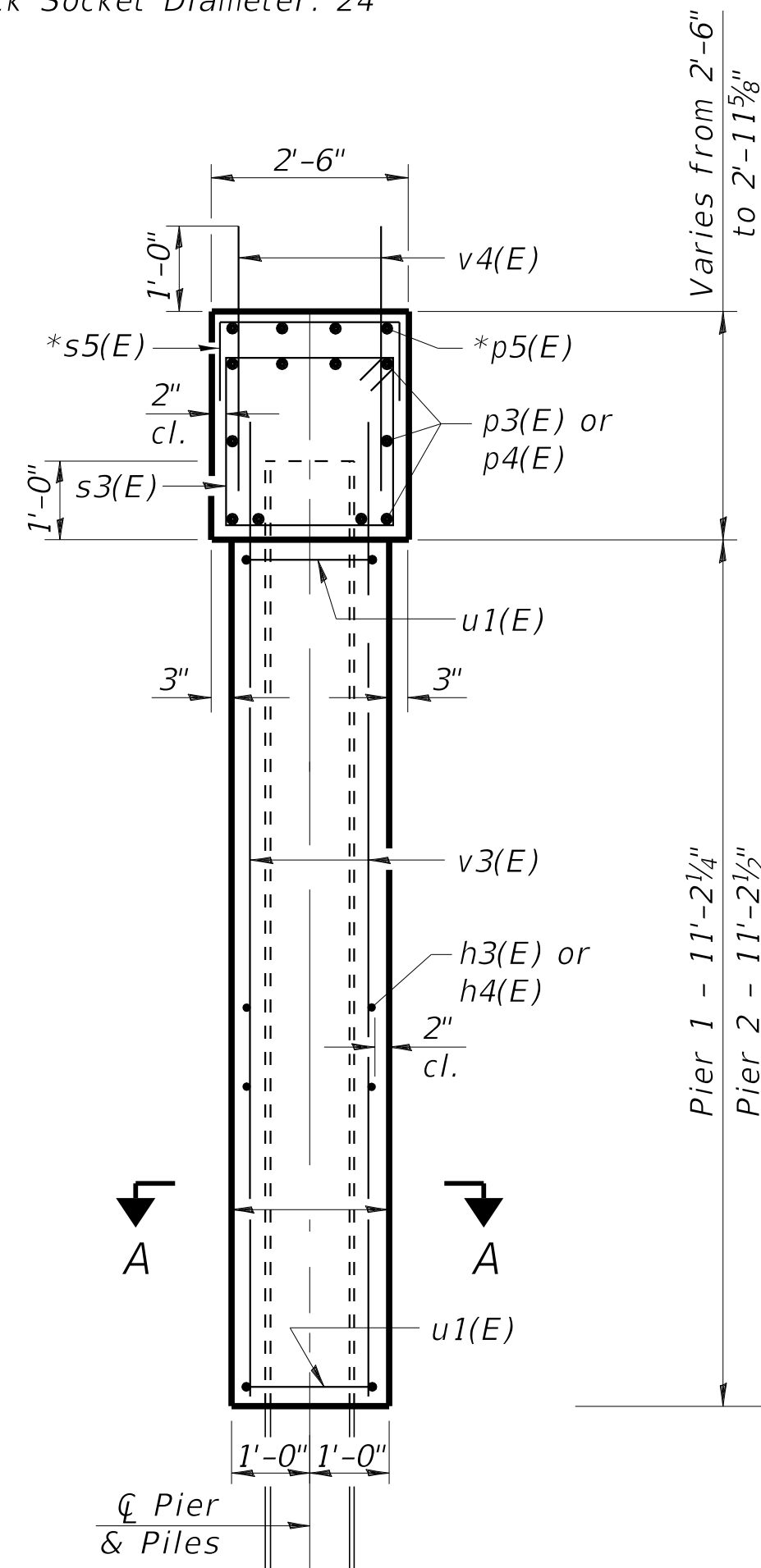
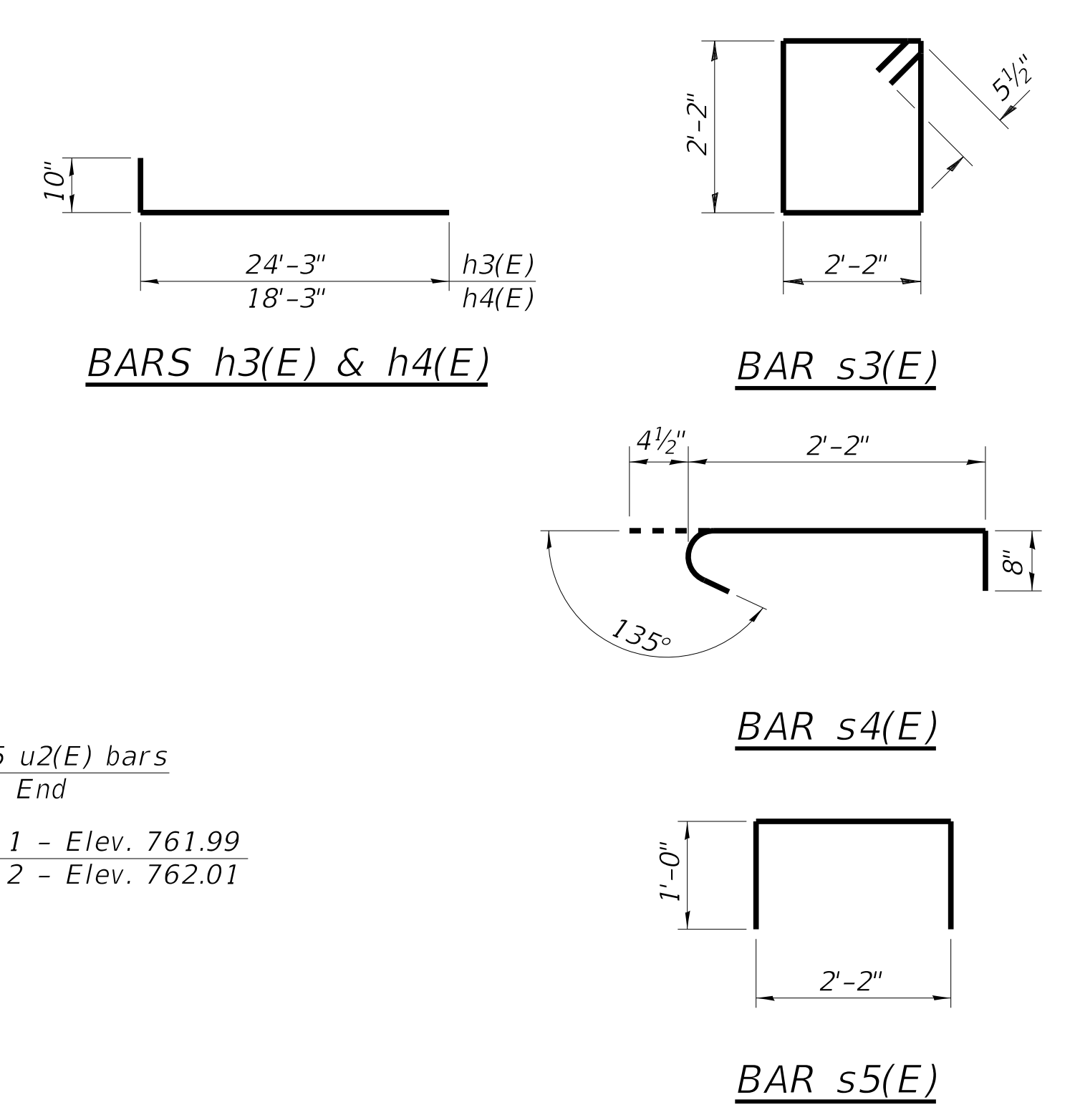
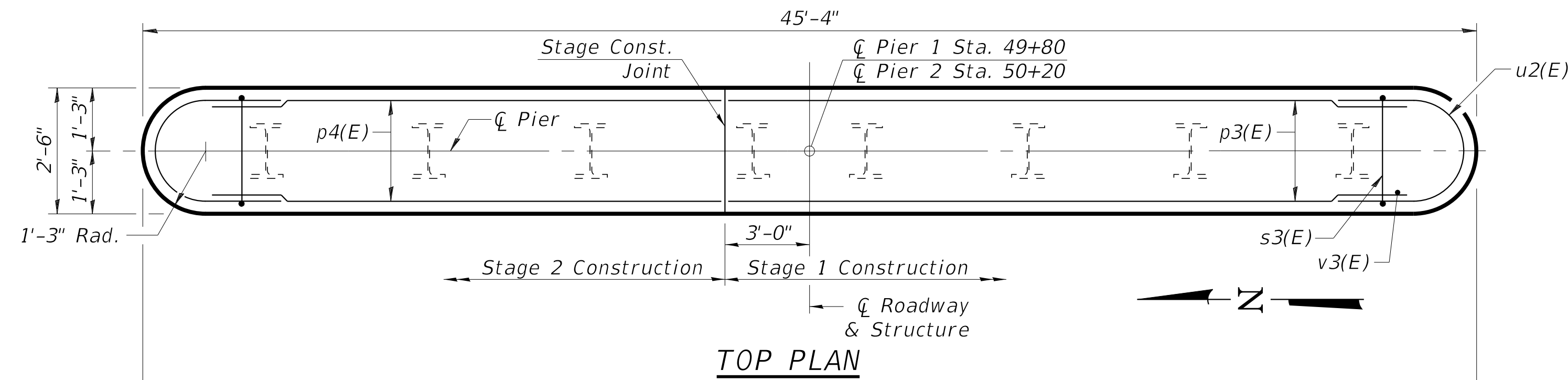
EAST ABUTMENT
STRUCTURE NO. 045-3161

SHEET 15 OF 24 SHEETS

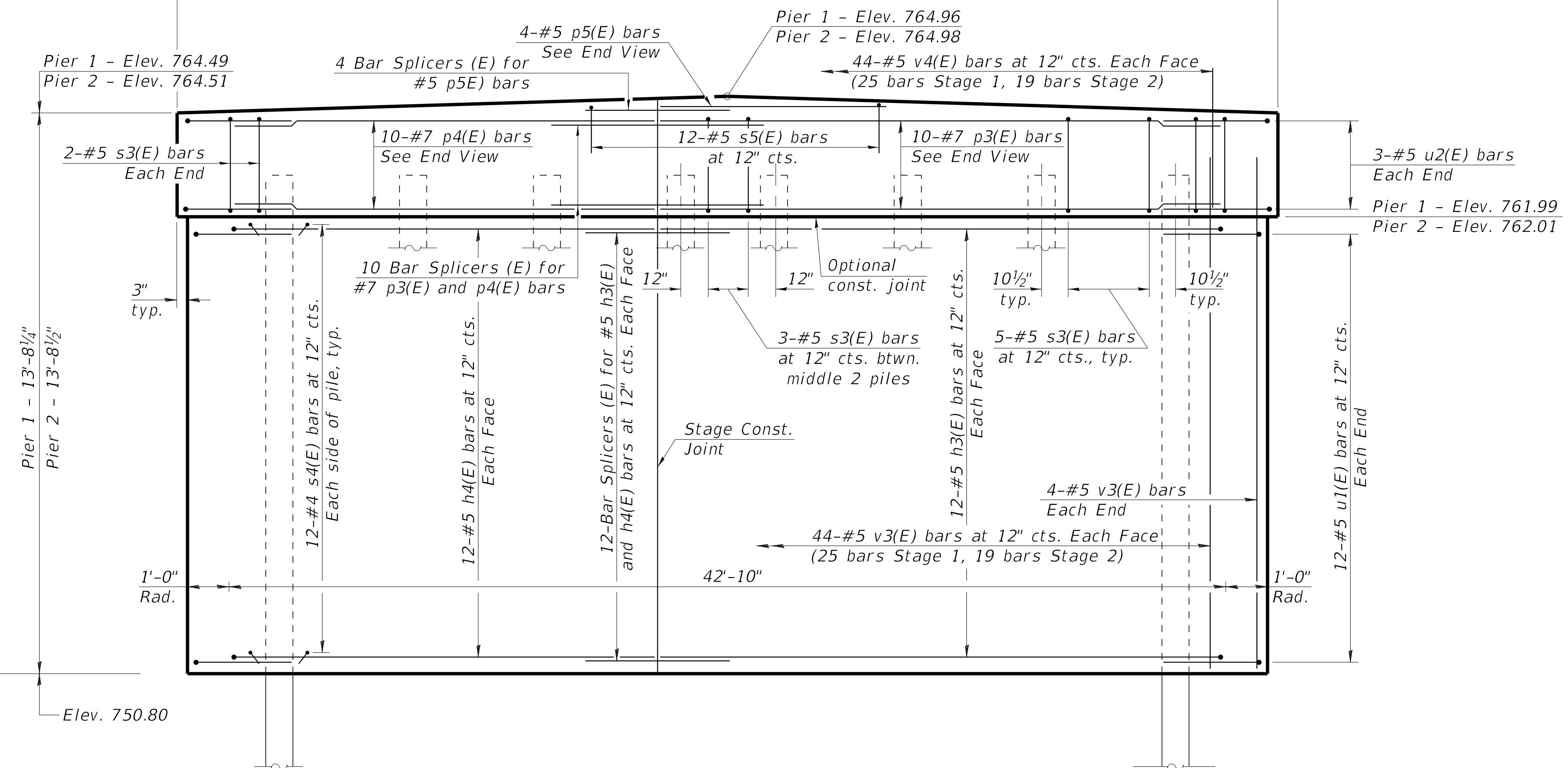
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	59
CONTRACT NO. 61F45			ILLINOIS FED. AID PROJECT	

PILE DATA

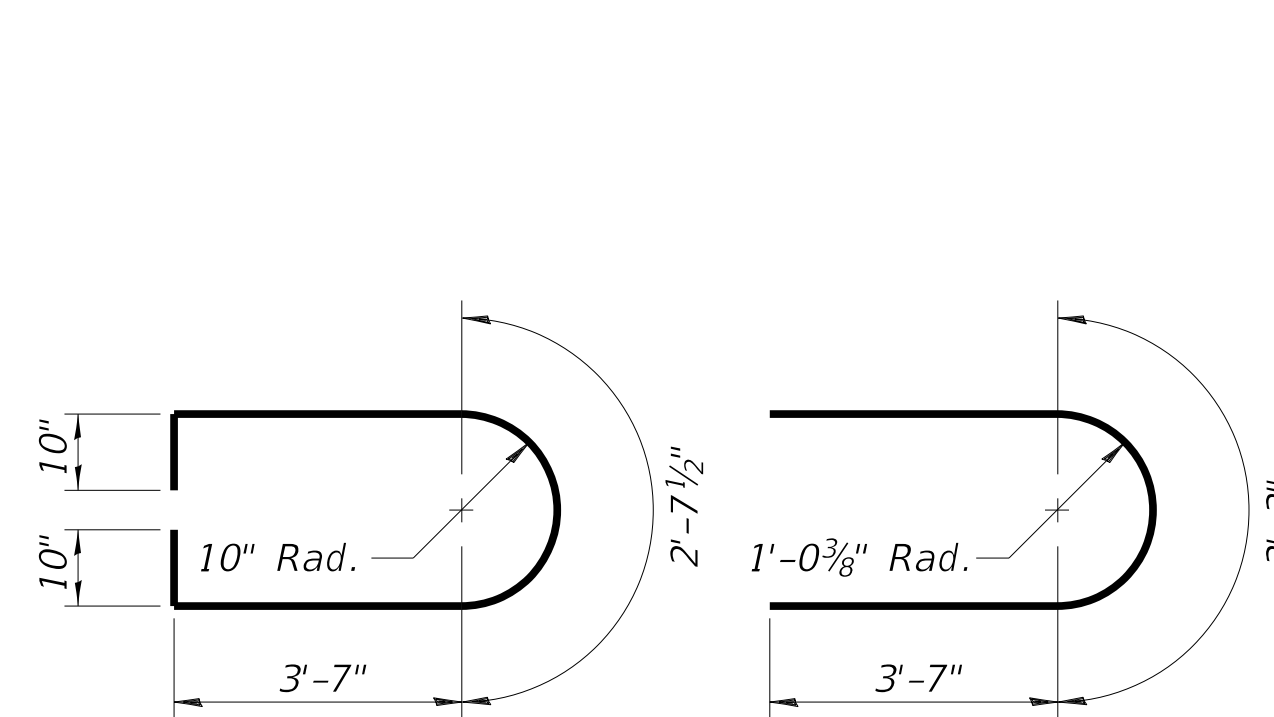
Type: Steel - HP14x73
 Nominal Required Bearing: Set in Rock
 Factored Resistance Available: 289 Kips
 Est. Length: 26'
 No. Production Piles: 16
 No. Test Piles: 0
 Estimated Top of Rock Elevation: 743.7
 Rock Socket Depth: 6.0'
 Rock Socket Diameter: 24"



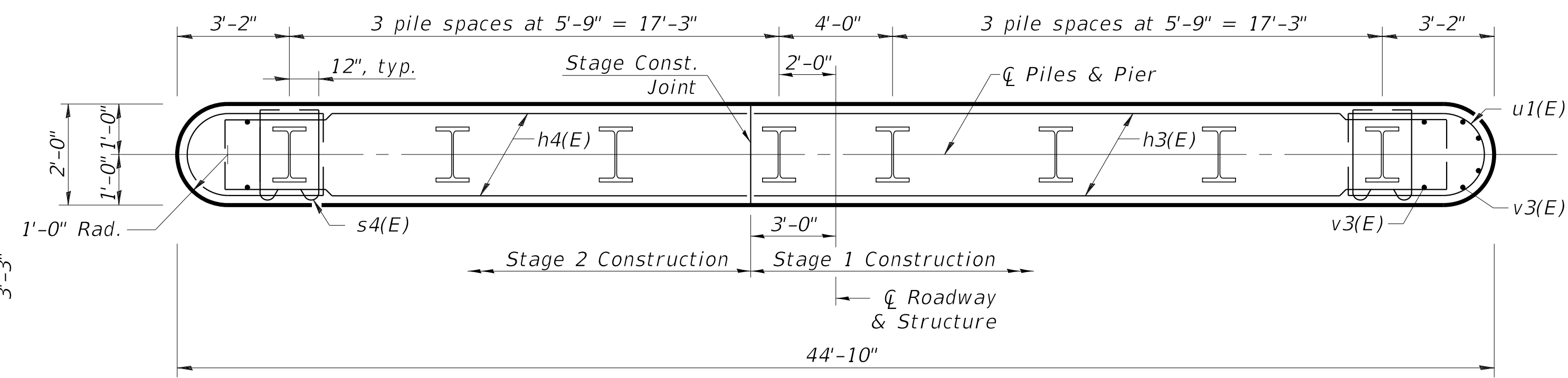
END VIEW
 *See Elevation view for bar locations



ELEVATION
 (Looking East)



BAR u1(E) **BAR u2(E)**



SECTION A-A

TWO PIERS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3(E)	48	#5	25'-1"	┌
h4(E)	48	#5	19'-1"	┌
p3(E)	20	#7	24'-3"	—
p4(E)	20	#7	18'-3"	—
p5(E)	8	#5	8'-4"	—
s3(E)	74	#5	9'-7"	┌
s4(E)	384	#4	3'-3"	┌
s5(E)	24	#5	4'-2"	┌
u1(E)	48	#5	11'-6"	┌
u2(E)	12	#5	10'-5"	┌
v3(E)	192	#5	13'-0"	—
v4(E)	176	#5	3'-4"	—
Cofferdam Excavation			Cu. Yd.	169
Cofferdam (Type 1) (Location - 1)			Each	1
Cofferdam (Type 1) (Location - 2)			Each	1
Concrete Structures			Cu. Yd.	96.3
Reinforcement Bars, Epoxy Coated			Pound	9,620
Bar Splicers			Each	76
Furnishing Steel Piles HP14x73			Foot	416
Setting Piles in Rock			Each	16

For details of piles see sheet 20 of 24.

MODEL: 16 Piers
 FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\Piers.dgn
 12/17/2018 4:08:28 PM



USER NAME =	DESIGNED - AS	REVISED -
PLOT SCALE =	CHECKED - BLB	REVISED -
PLOT DATE =	DRAWN - AS	REVISED -
	CHECKED - BLB	DATE - 11-26-18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIERS
STRUCTURE NO. 045-3161

SHEET 16 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	60
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F45	

GENERAL NOTES

All structural steel shall be AASHTO M270 Grade 50W. Decking shall be treated timber in accordance with Article 1007.03 of the Standard Specifications. Design loading shall be according to the Special Provision for Pedestrian Truss Superstructure.

The substructure is designed per AASHTO LRFD and based on the assumed truss loadings shown in Bridge Reactions Table.

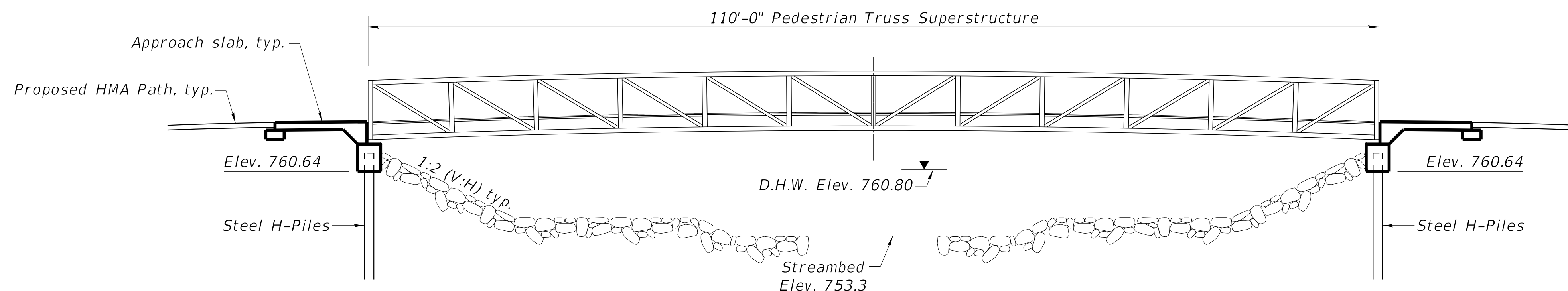
Bearing seat elevations and back wall dimensions are subject to revision based on the approved pedestrian truss superstructure shop drawings. Contractor shall verify all dimensions and elevations with final shop drawings.

Truss manufacturer shall design and furnish all truss bearing anchor bolts.

Total factored superstructure dead load at each abutment = 23,500 pounds.

Pedestrian bridge quantities included with Total Bill of Material on Sheet 2 of 24. Removal of the existing pedestrian bridge and foundations is included with Removal of Existing Structures.

Embankment configuration shown shall be deferred to Stage 2B construction. See Temporary Sheet Piling - Stage 2A/2B detail on Sheet 2 of 24.



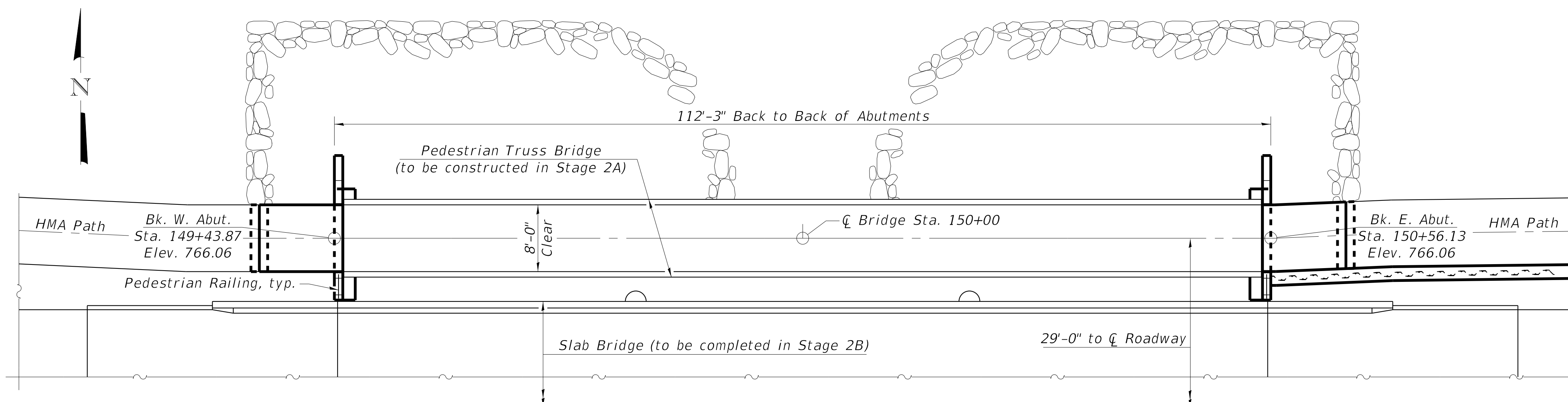
ELEVATION

See Sheets 1 and 2 of 24 for Riprap Details

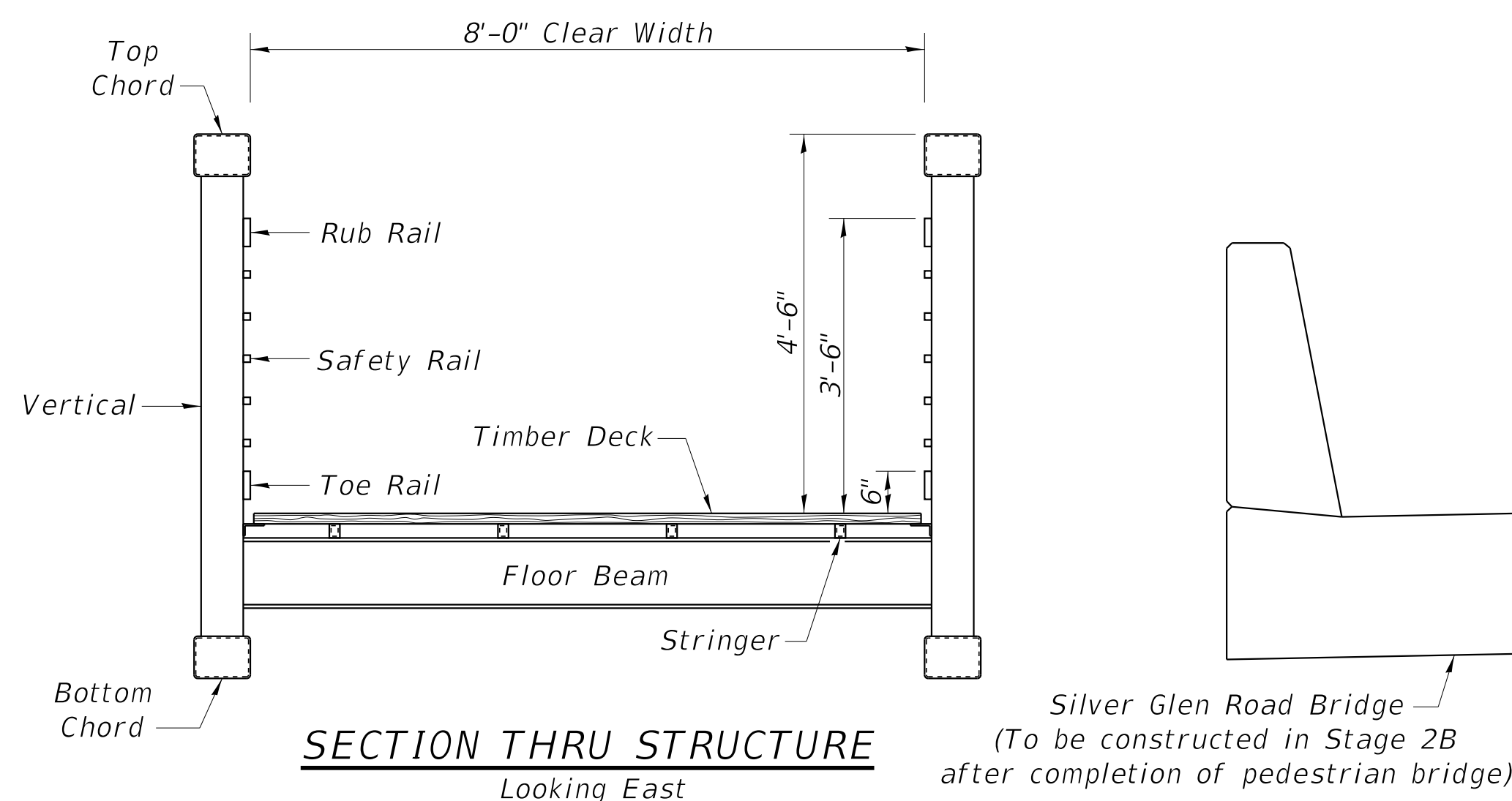
**PEDESTRIAN BRIDGE
LOADING 90PSF & H5 TRUCK**

DESIGN SPECIFICATIONS

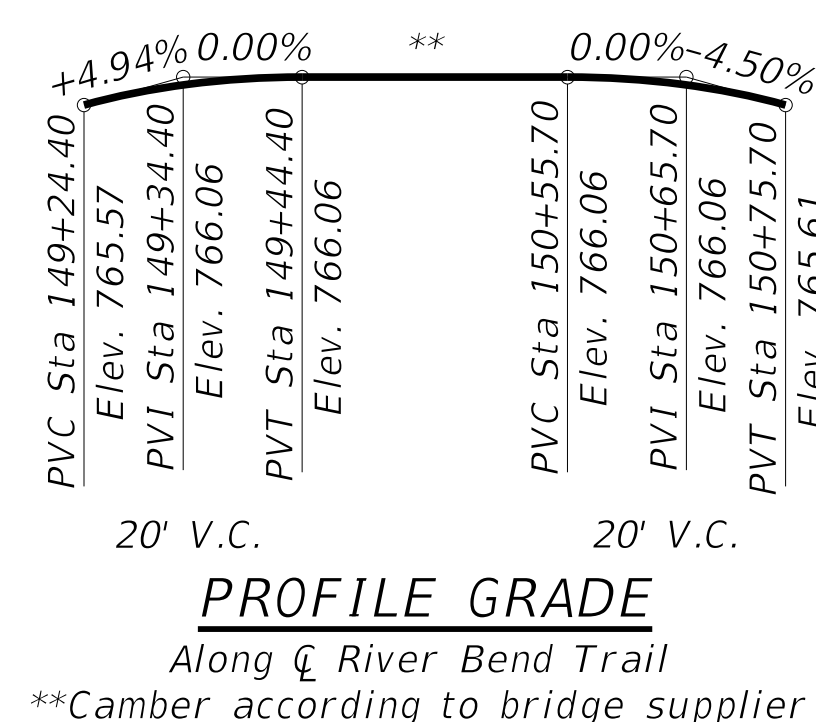
2009 LRFD Guide Specifications for the Design of Pedestrian Bridges, 2nd Edition, with 2015 Interims



PLAN



**SECTION THRU STRUCTURE
Looking East**



PROFILE GRADE

Along Centerline of River Bend Trail

**Camber according to bridge supplier

ABUTMENT REACTION TABLE

	P (Lbs.)	H (Lbs.)	L (Lbs.)
Dead Load	9,400	-	-
Uniform Live Load	19,800	-	-
Vehicle Load	5,000	-	-
Wind Uplift (20 PSF)	Windward -7,565 Leeward -2,522	-	-
Wind	±5,970	12,435	-
Thermal	-	-	1,410

Negative values denote upward loads
 "P" = Vertical load at each base plate (4 total)
 "H" = Horizontal load each footing (2 total)
 "L" = Longitudinal load each base plate (4 total)

Note:
 Reactions shown are due to service loads.
 Designer shall combine reactions per governing design code as required.

MODEL: Ped Bridge
 FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridge\PedBridge.dgn

BAXTER & WOODMAN
 Consulting Engineers

USER NAME =	DESIGNED - AS	REVISED -
	CHECKED - BLB	REVISED -
PLOT SCALE =	DRAWN - AS	REVISED -
PLOT DATE =	CHECKED - BLB	DATE - 11-26-18

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PEDESTRIAN BRIDGE
 GENERAL PLAN**

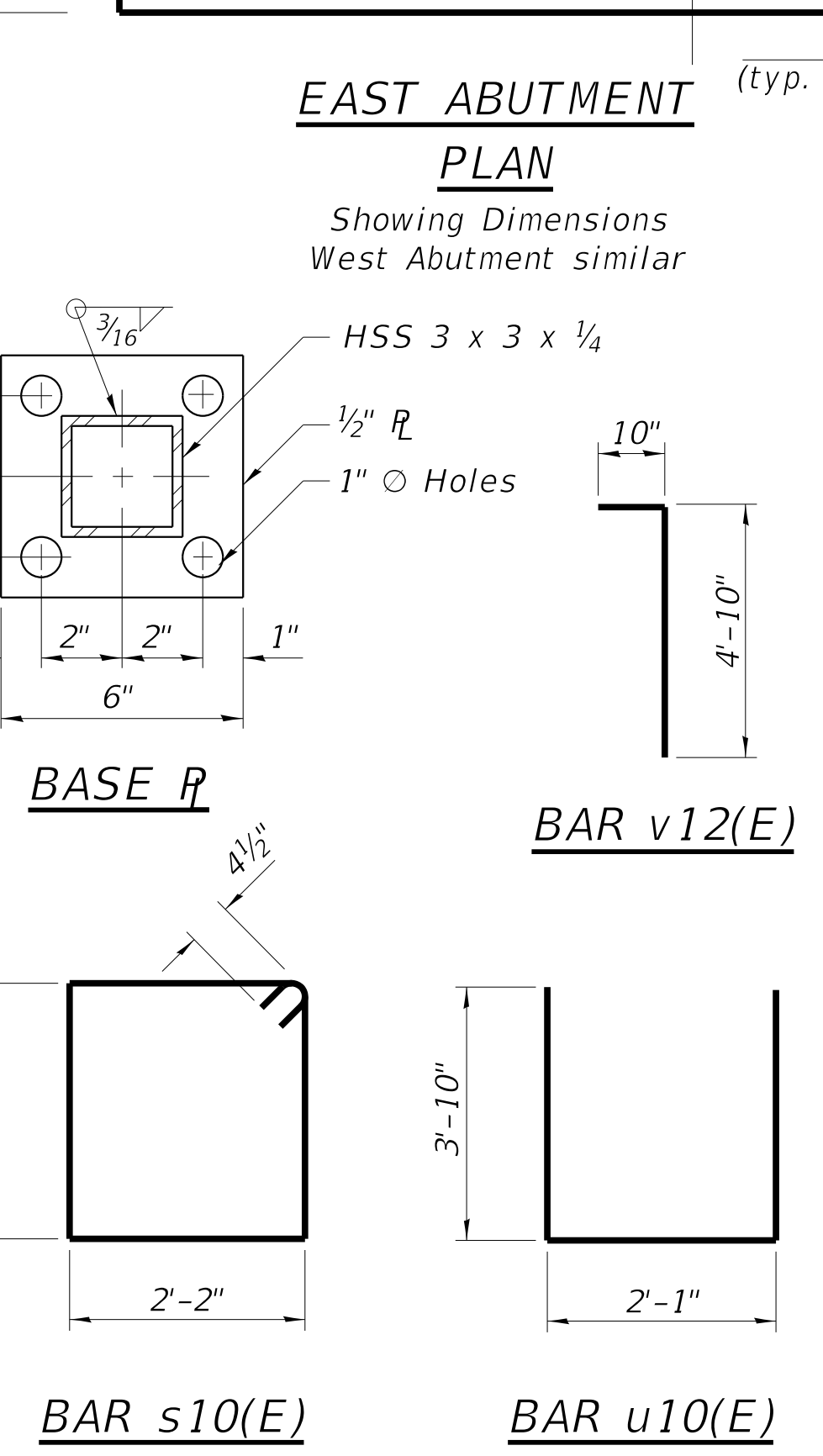
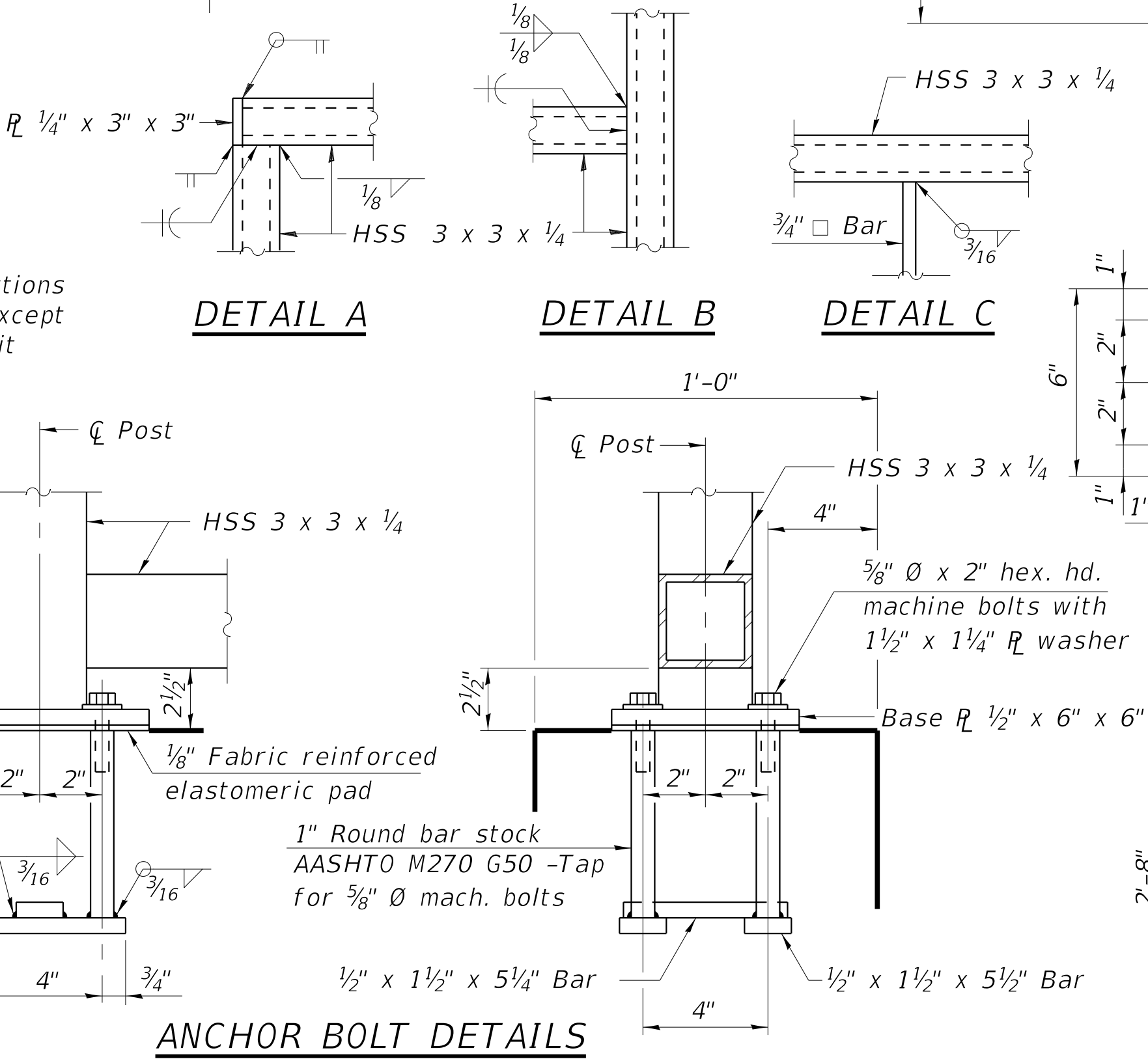
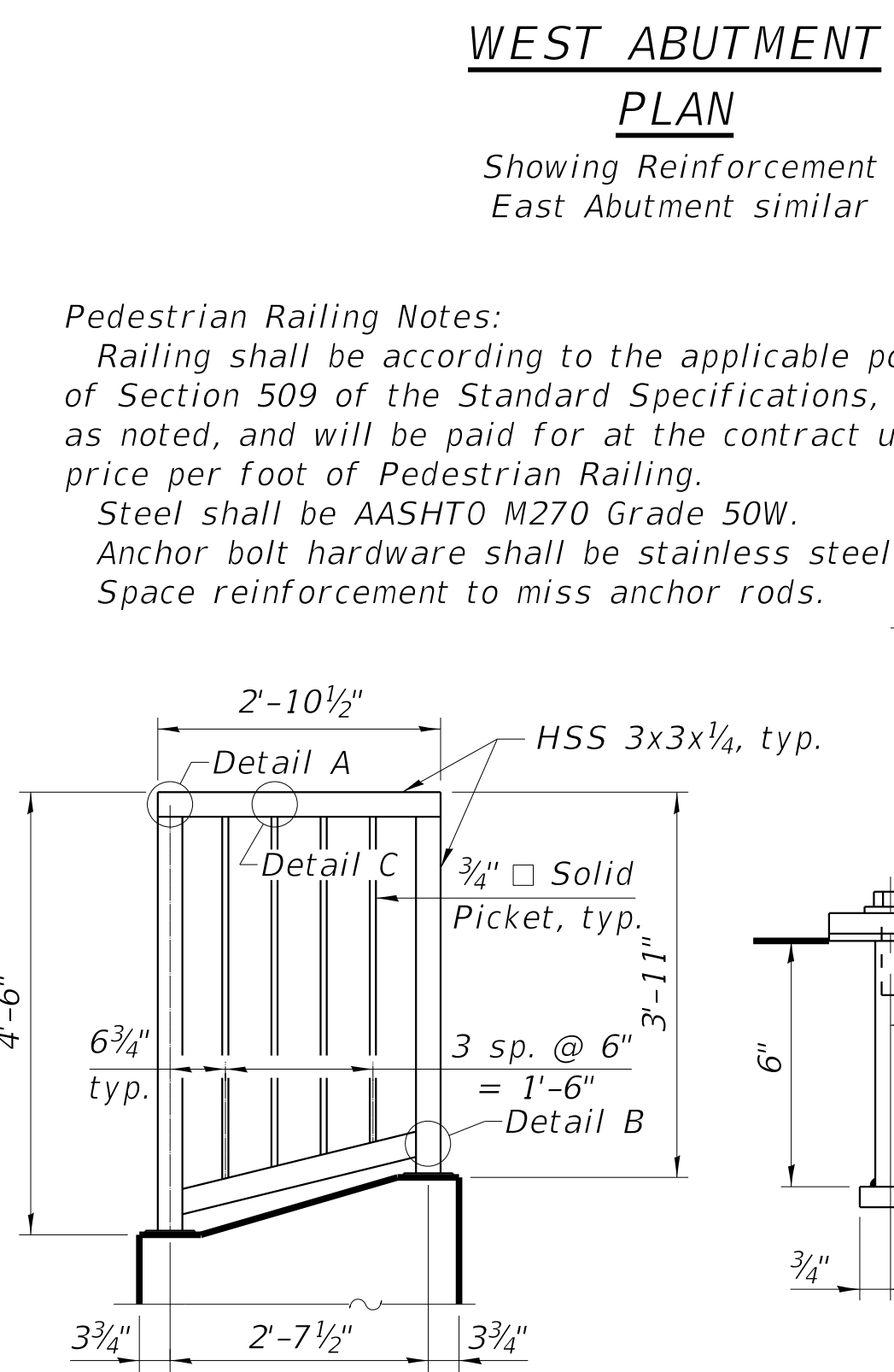
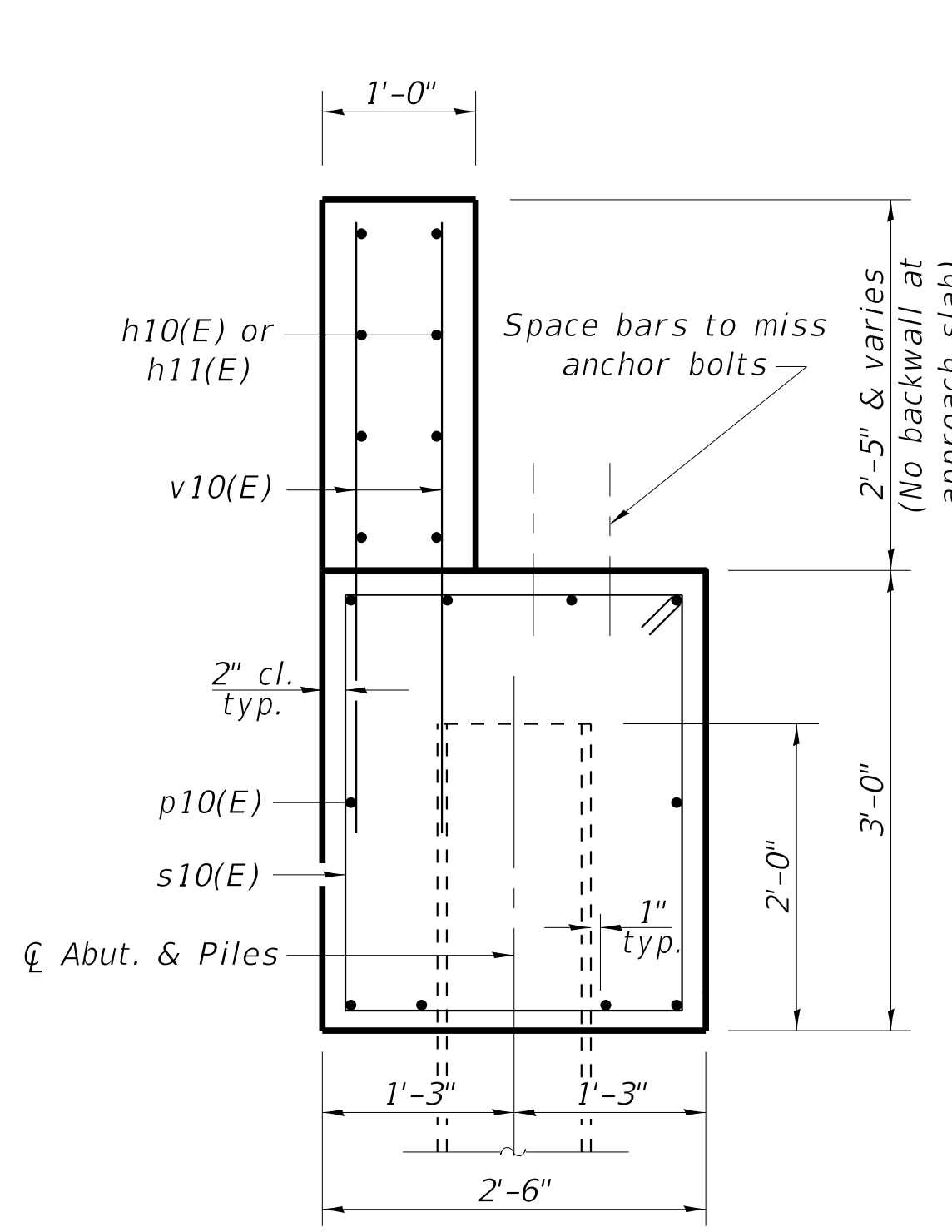
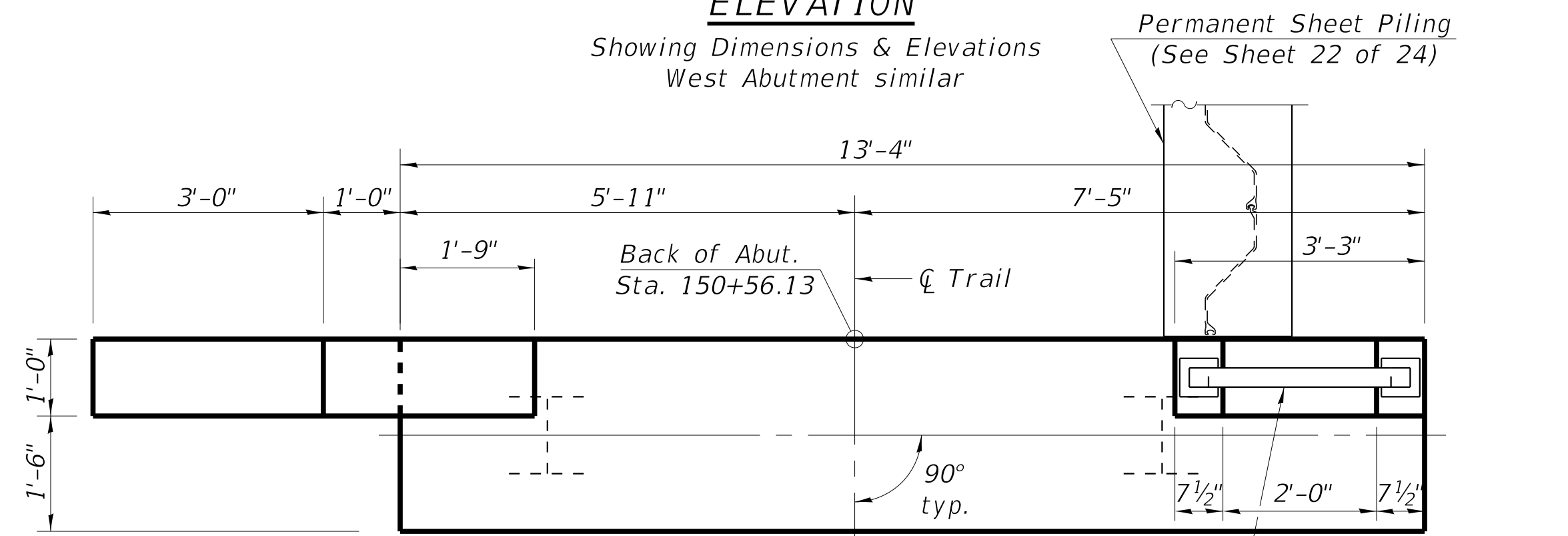
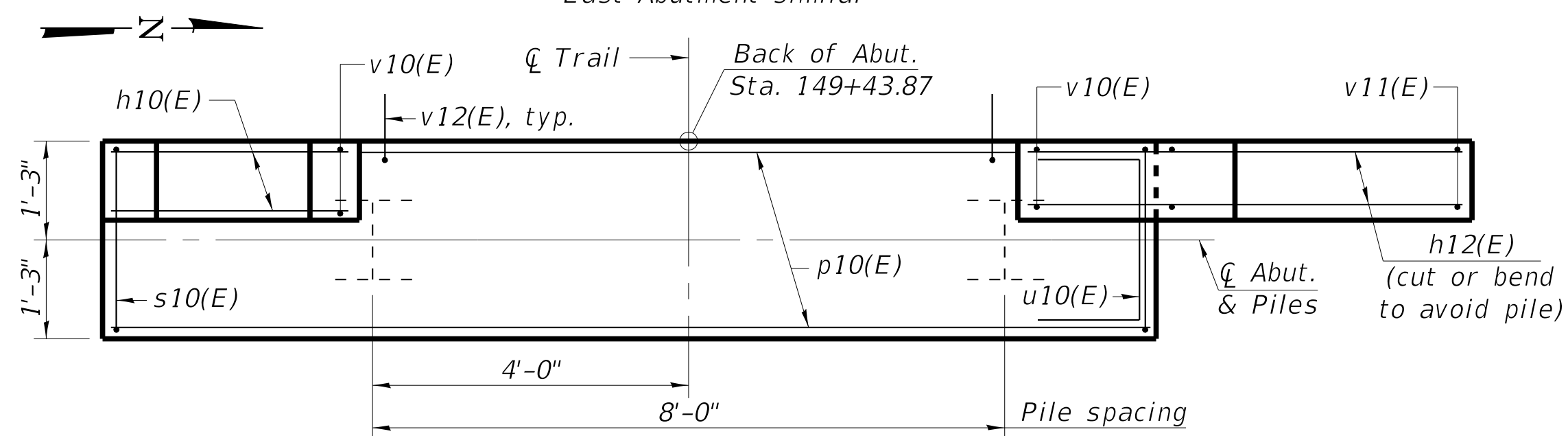
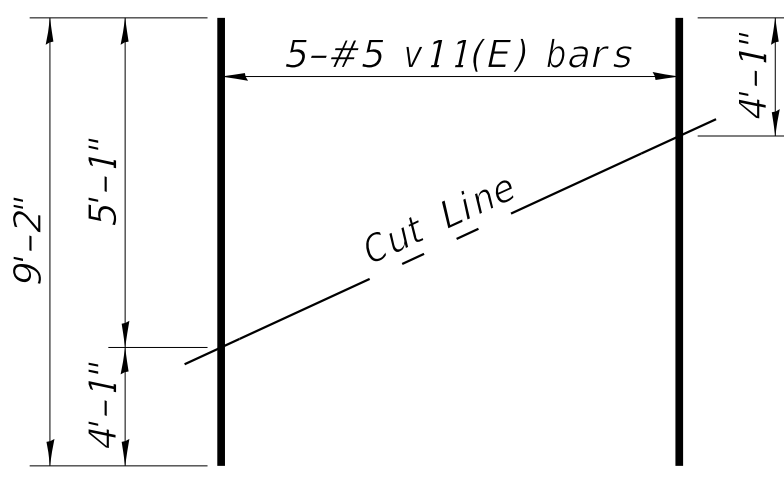
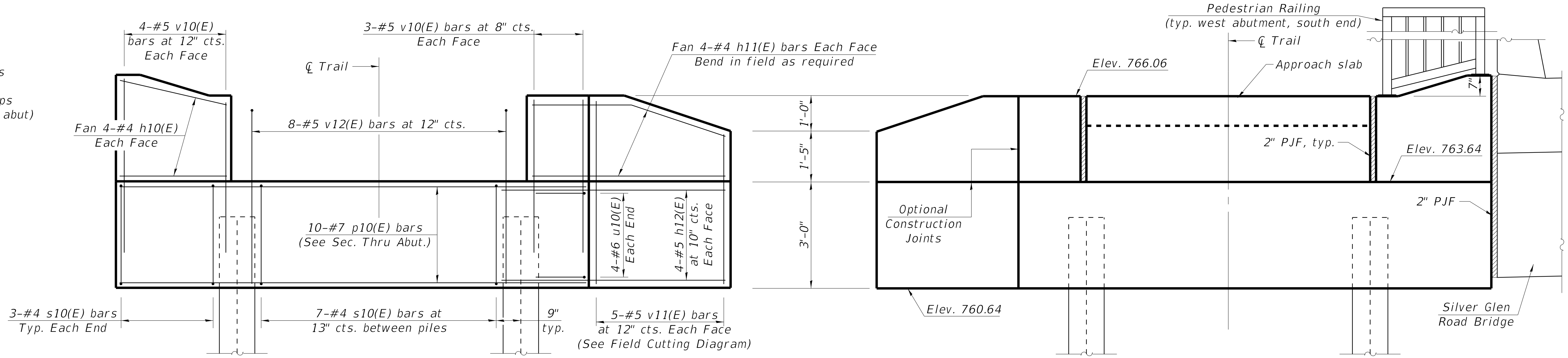
SHEET 17 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	61
			CONTRACT NO. 61F45	
ILLINOIS FED. AID PROJECT				

PILE DATA

Type: Steel - HP12x53 with pile shoes
 Nominal Required Bearing: 419 Kips
 Factored Resistance Available: 209 Kips
 Est. Length: 20' (west abut) 21' (east abut)
 No. Production Piles: 2 each abutment
 No. Test Piles: 0

Notes:
 Space reinforcement in cap to miss anchor bolt locations as provided by truss manufacturer.
 Cost of 2" Preformed Joint Filler included with Concrete Structures.



TWO ABUTMENTS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h10(E)	16	#4	2'-11"	—
h11(E)	16	#4	5'-5"	—
h12(E)	16	#5	6'-7"	—
p10(E)	20	#7	13'-0"	—
s10(E)	26	#4	10'-5"	□
u10(E)	16	#6	9'-9"	□
v10(E)	28	#5	5'-3"	—
v11(E)	10	#5	9'-2"	—
v12(E)	16	#5	5'-8"	—
Structure Excavation		Cu. Yd.	51	
Concrete Structures		Cu. Yd.	9.9	
Reinforcement Bars, Epoxy Coated		Pound	1,490	
Furnishing Steel Piles HP12x53		Foot	82	
Driving Piles		Foot	82	
Pedestrian Railing		Foot	6	

For details of piles see sheet 20 of 24.

MODEL: Ped Bridge
 FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\PedBridge.dgn

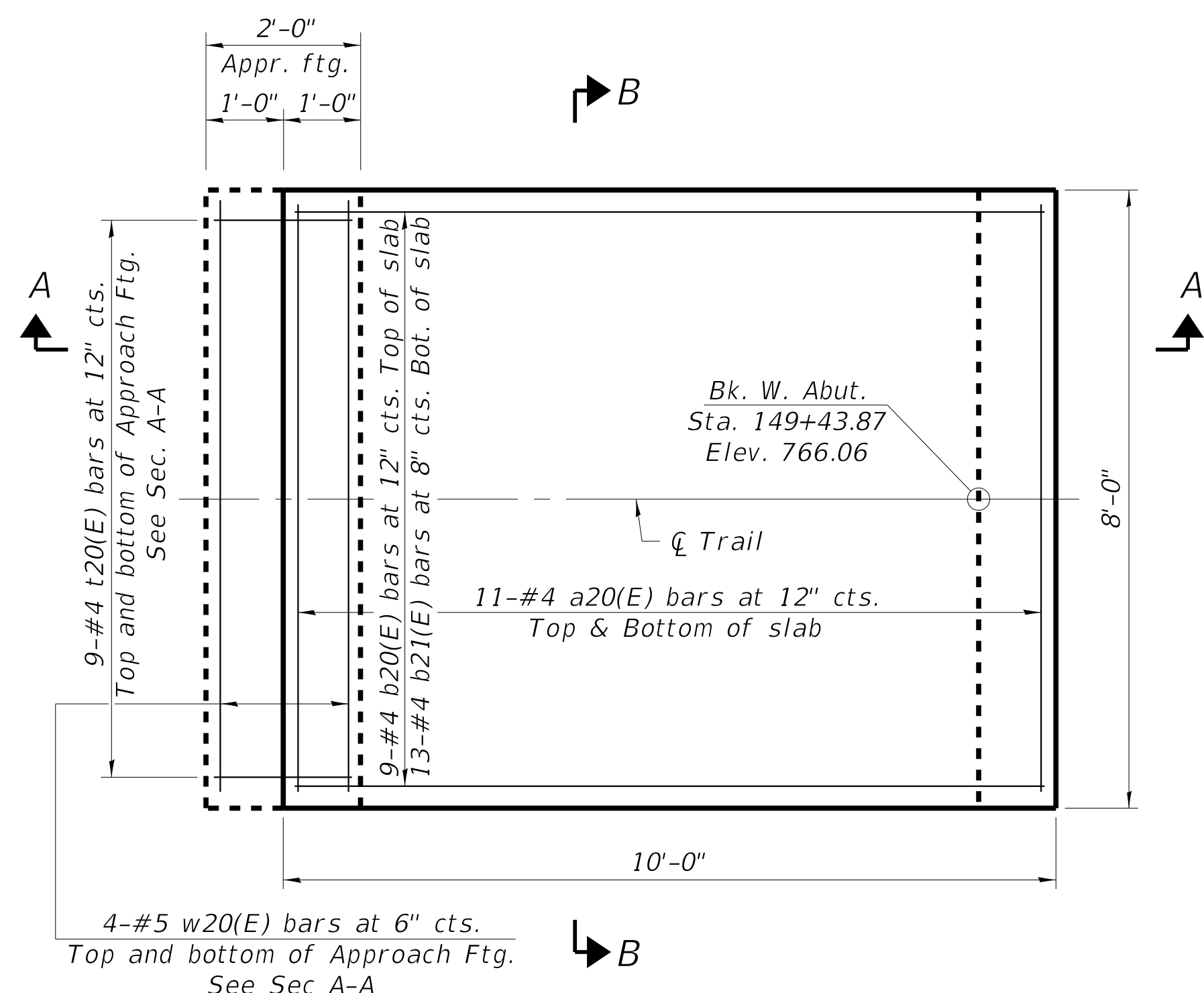


USER NAME =	DESIGNED - AS	REvised -
PLOT SCALE =	CHECKED - BLB	REvised -
PLOT DATE =	DRAWN - AS	REvised -
	CHECKED - BLB	DATE - 11-26-18

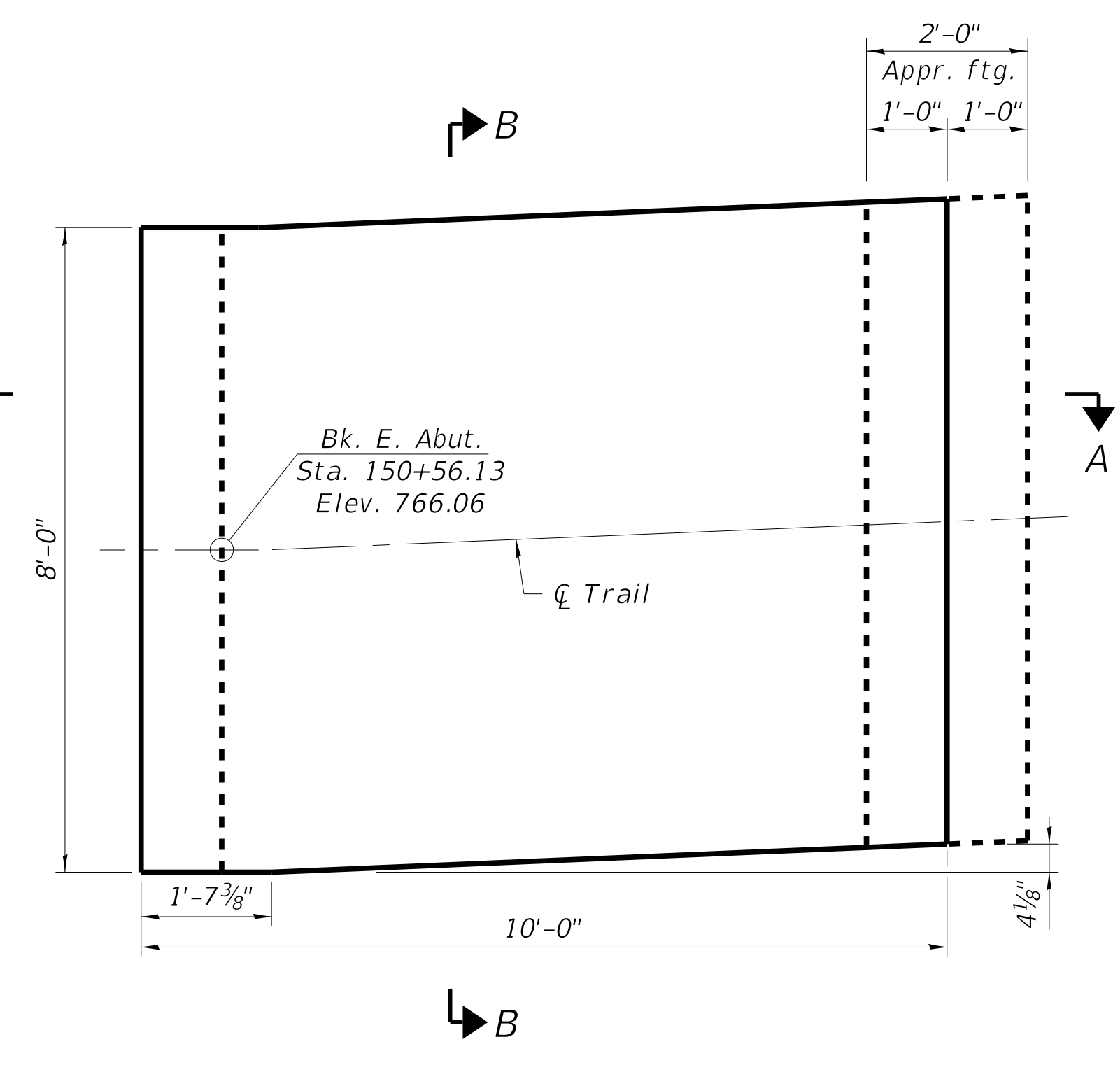
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PEDESTRIAN BRIDGE
 ABUTMENT DETAILS

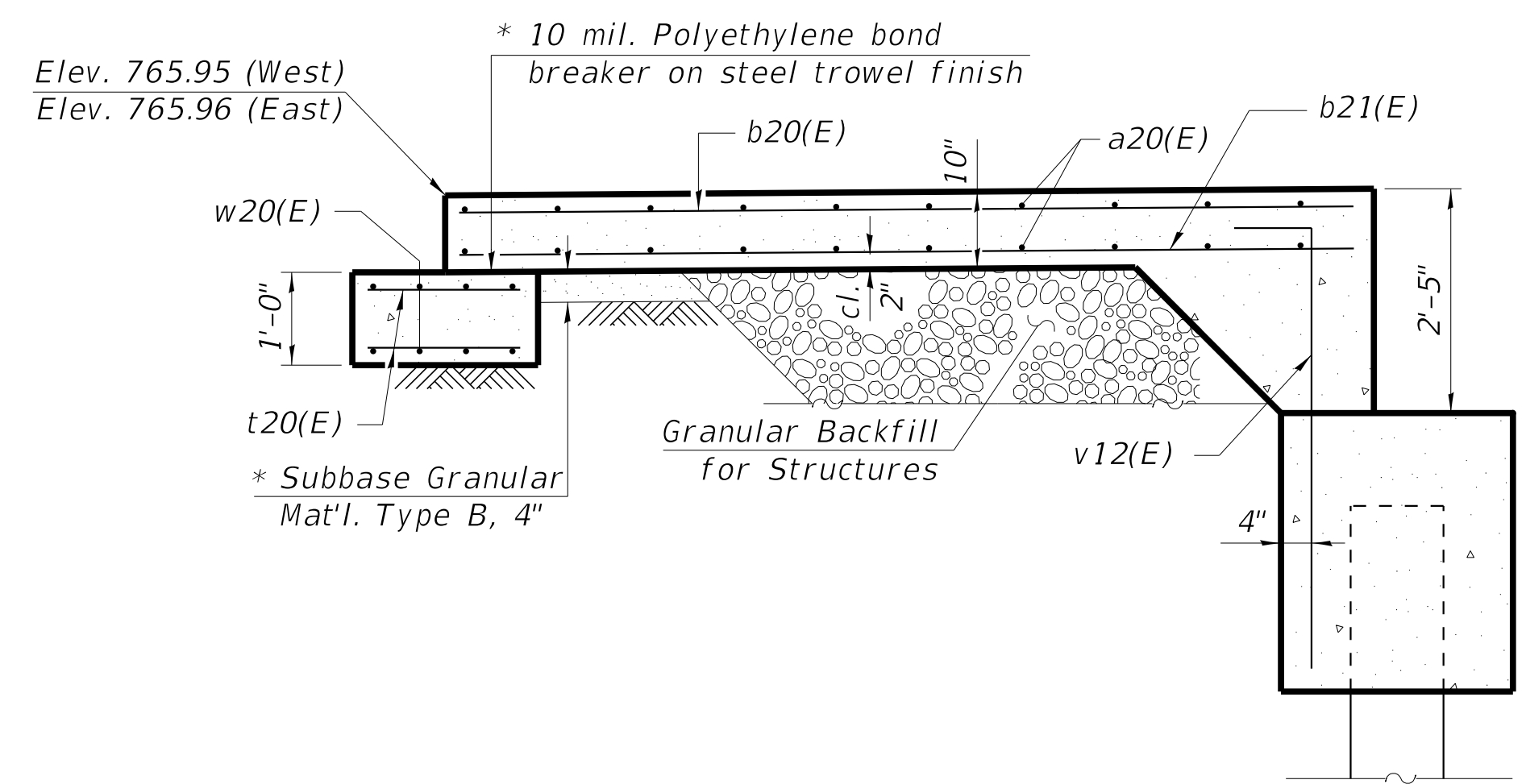
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	62
CONTRACT NO. 61F45			ILLINOIS FED. AID PROJECT	



WEST APPROACH PLAN
Showing Dimensions and Typical Reinforcement

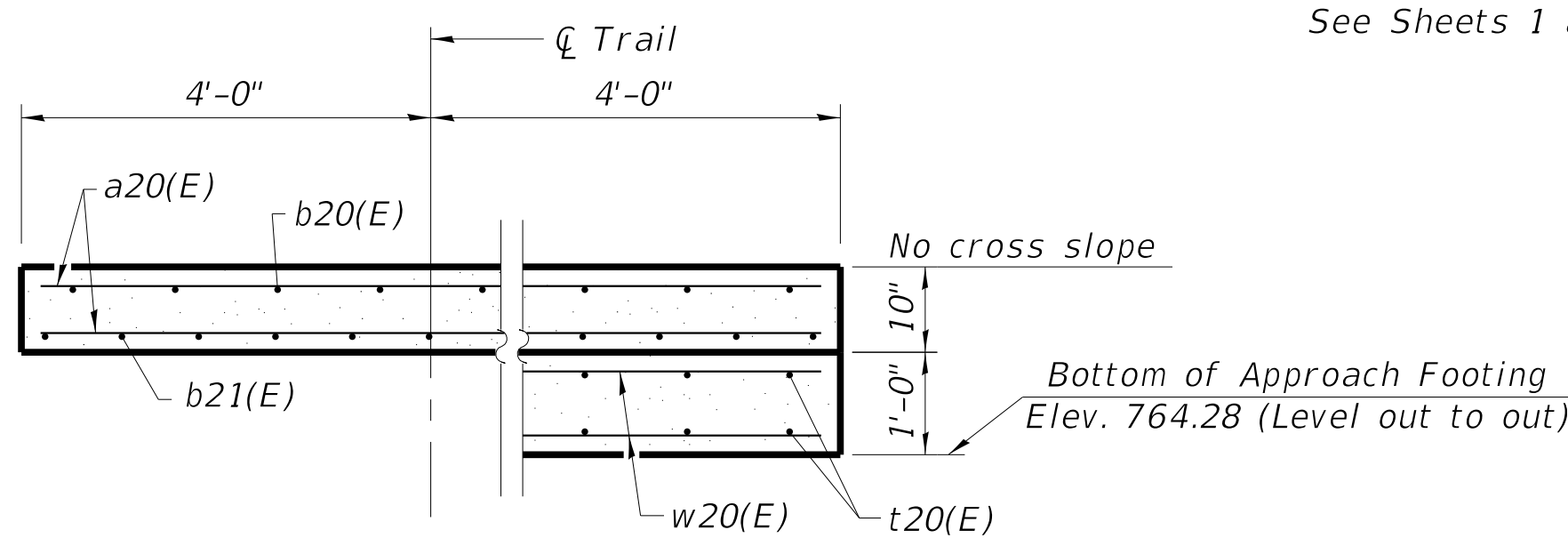


EAST APPROACH PLAN
Showing Dimensions; bend reinforcement to fit

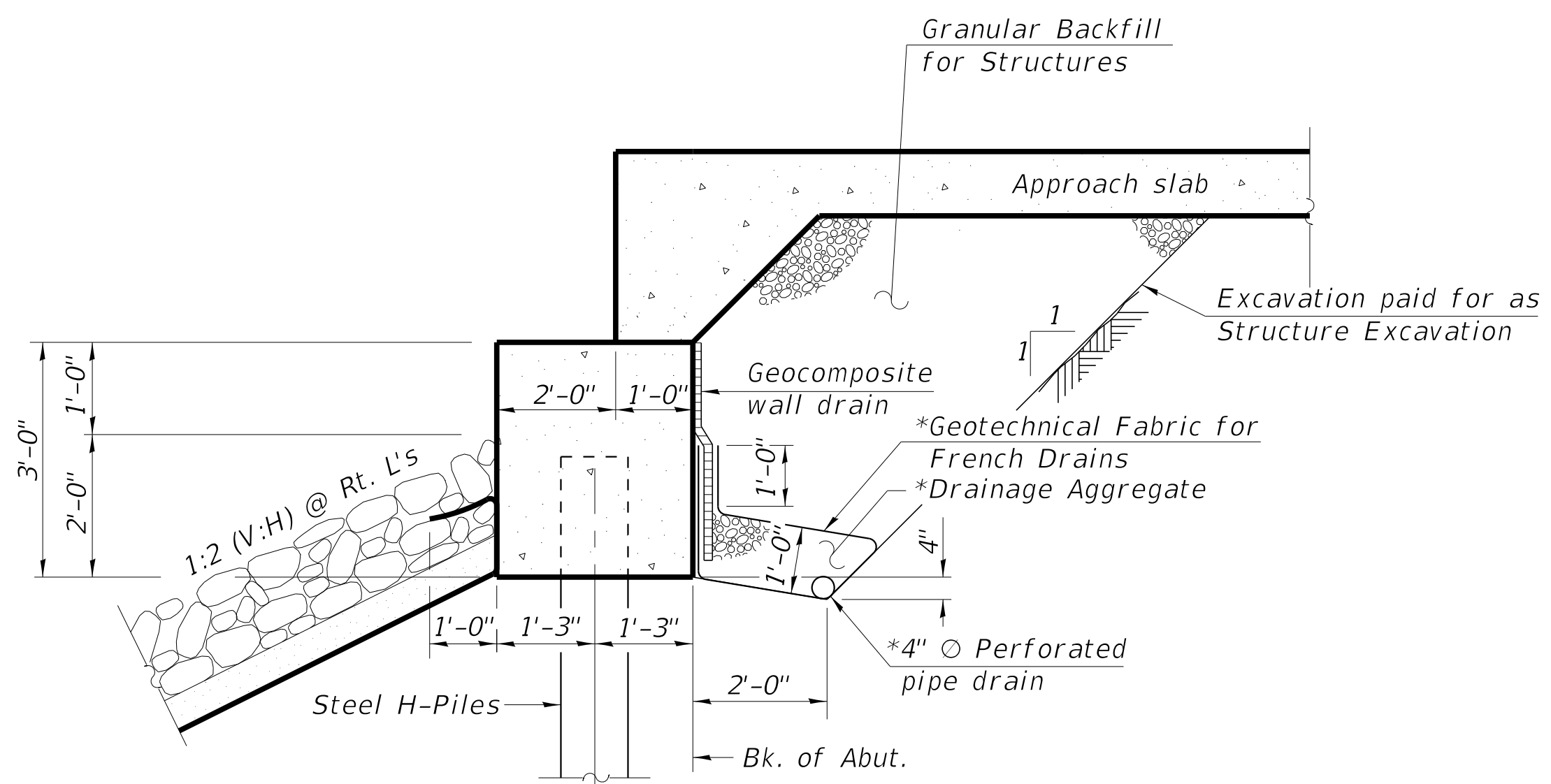


SECTION A-A

* Cost included with Concrete Superstructure (Approach Slab).



SECTION B-B



SECTION THRU ABUTMENT

See Sheets 1 and 2 of 24 for additional details & notes.

**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a20(E)	44	#4	7'-8"	—
b20(E)	18	#4	9'-8"	—
b21(E)	26	#4	9'-8"	—
t20(E)	36	#4	1'-8"	—
w20(E)	16	#5	7'-8"	—
Concrete Superstructure (Approach Slab)			Cu. Yd.	6.7
Concrete Structures			Cu. Yd.	1.2
Reinforcement Bars, Epoxy Coated			Pound	680

Notes:
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 1.5 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.
 See sheet 18 of 24 for v12(E) bar details.

MODEL: Ped Bridge
 FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\PedBridge.dgn



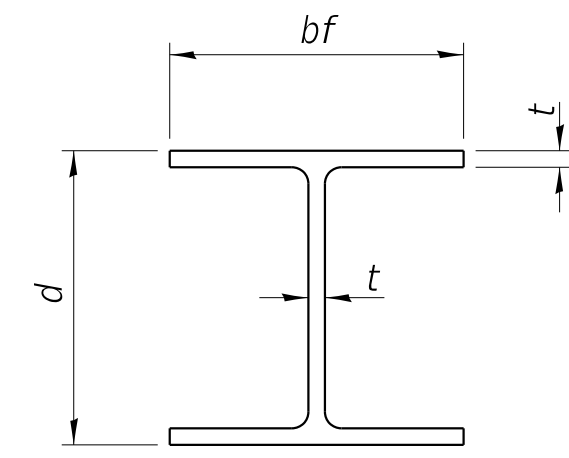
USER NAME =	DESIGNED - AS	REVISED -
PLOT SCALE =	CHECKED - BLB	REVISED -
PLOT DATE =	DRAWN - AS	REVISED -
	CHECKED - BLB	DATE - 11-26-18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PEDESTRIAN BRIDGE
APPROACH SLAB DETAILS

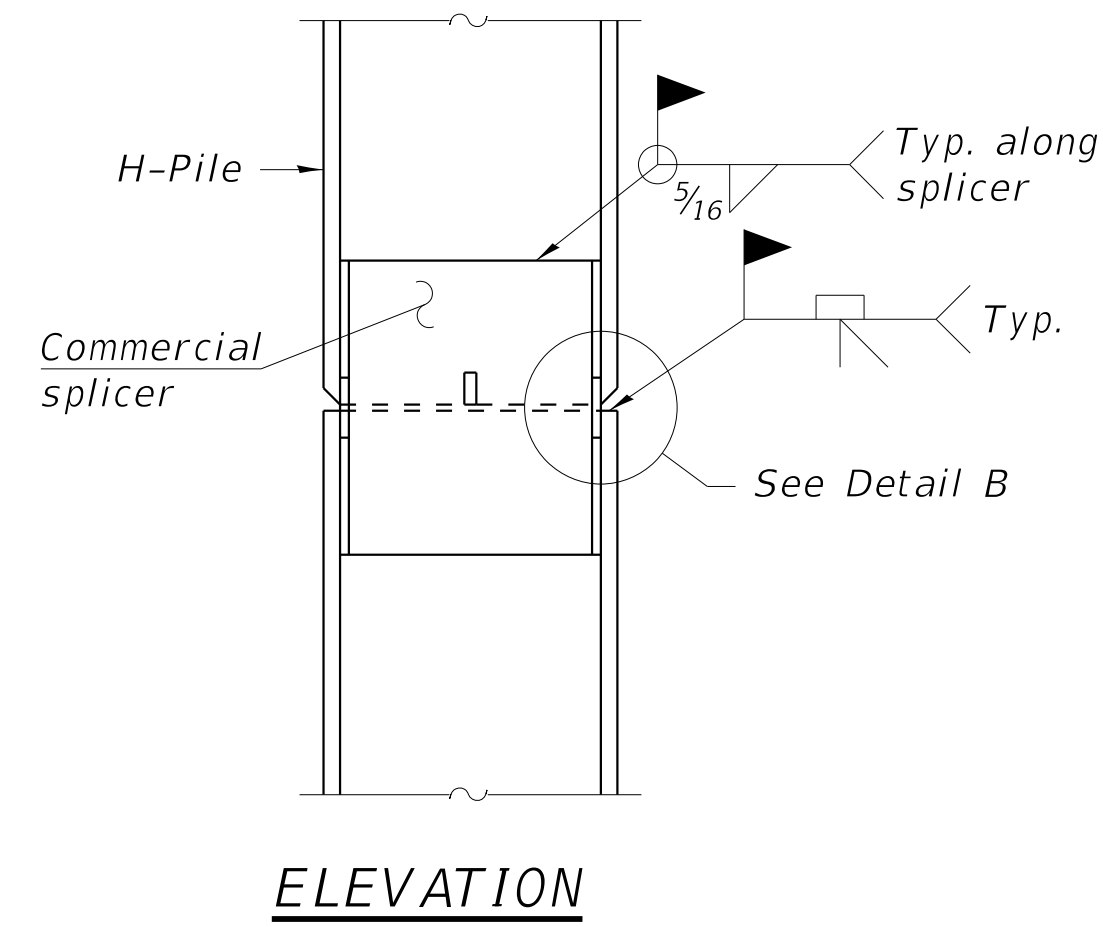
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	63
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT				

SHEET 19 OF 24 SHEETS

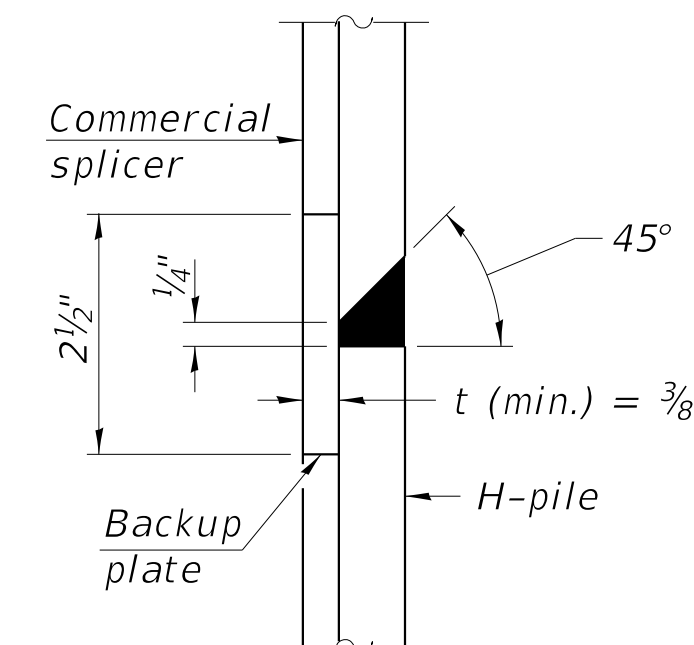


STEEL PILE TABLE

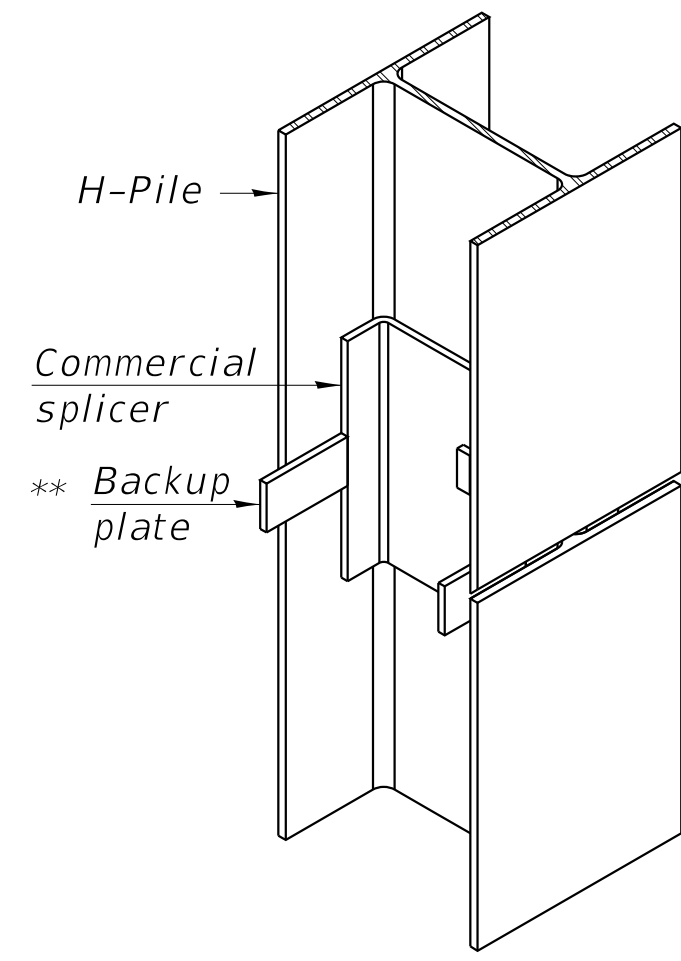
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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



ELEVATION

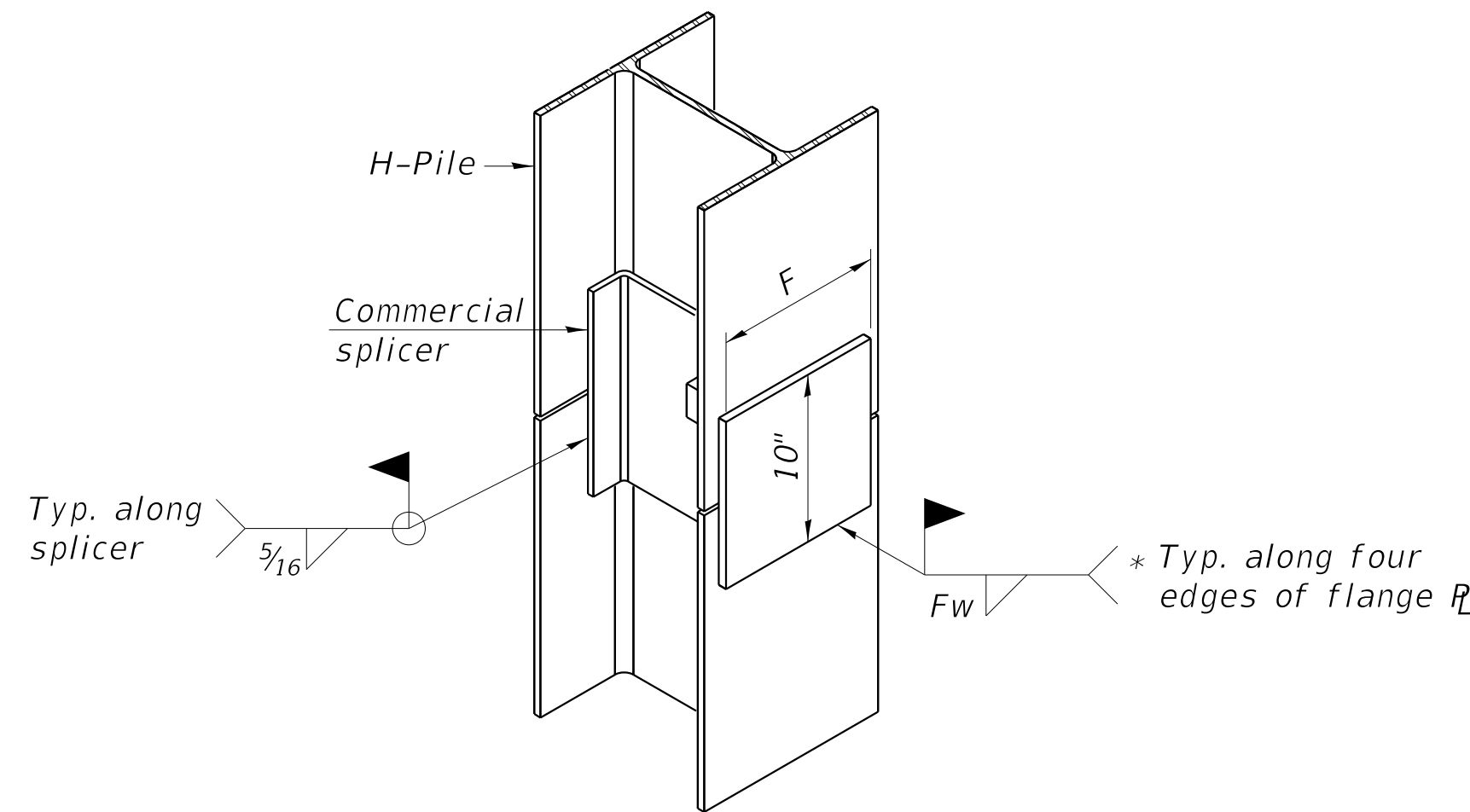


DETAIL "B"



ISOMETRIC VIEW

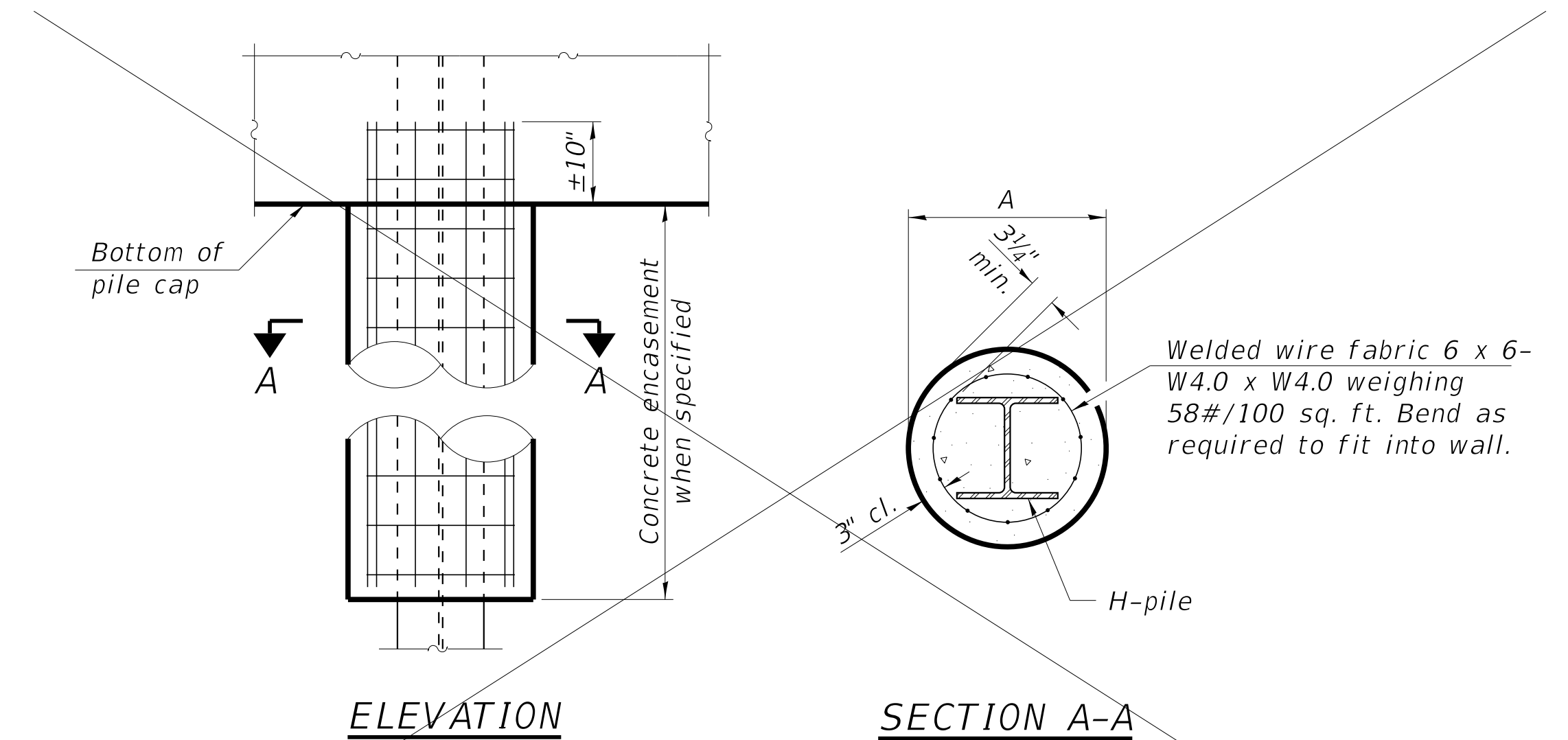
WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

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

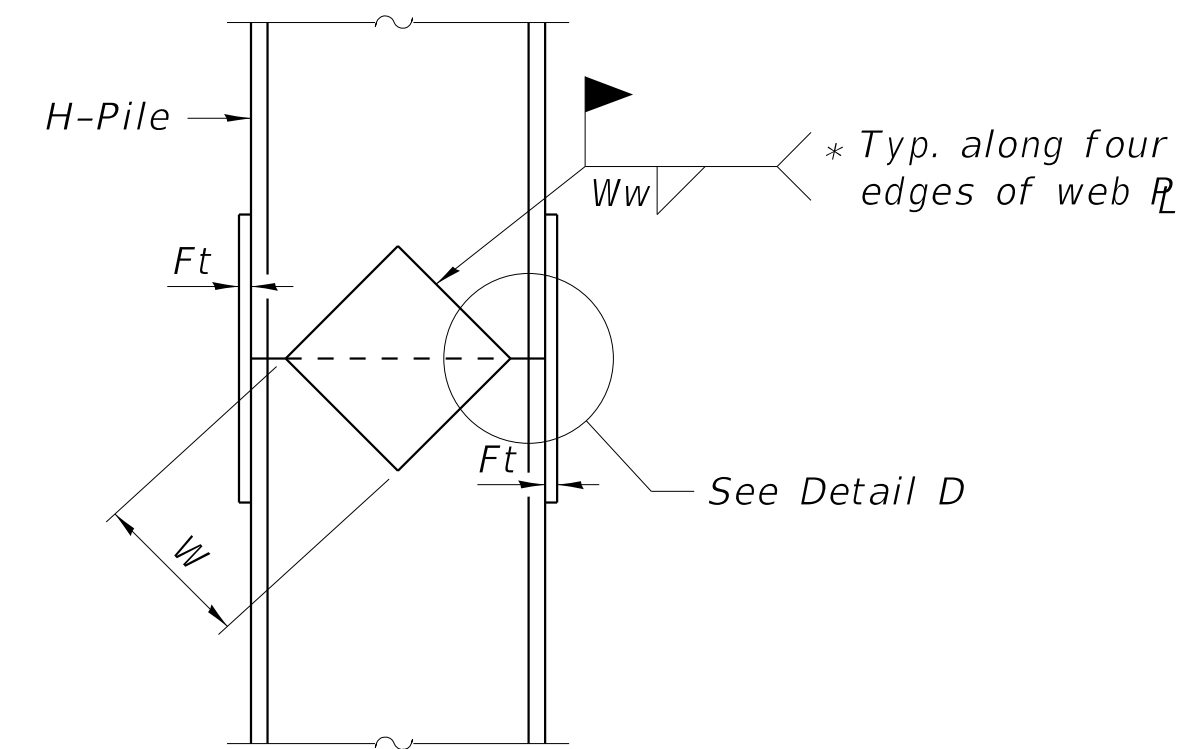


ELEVATION

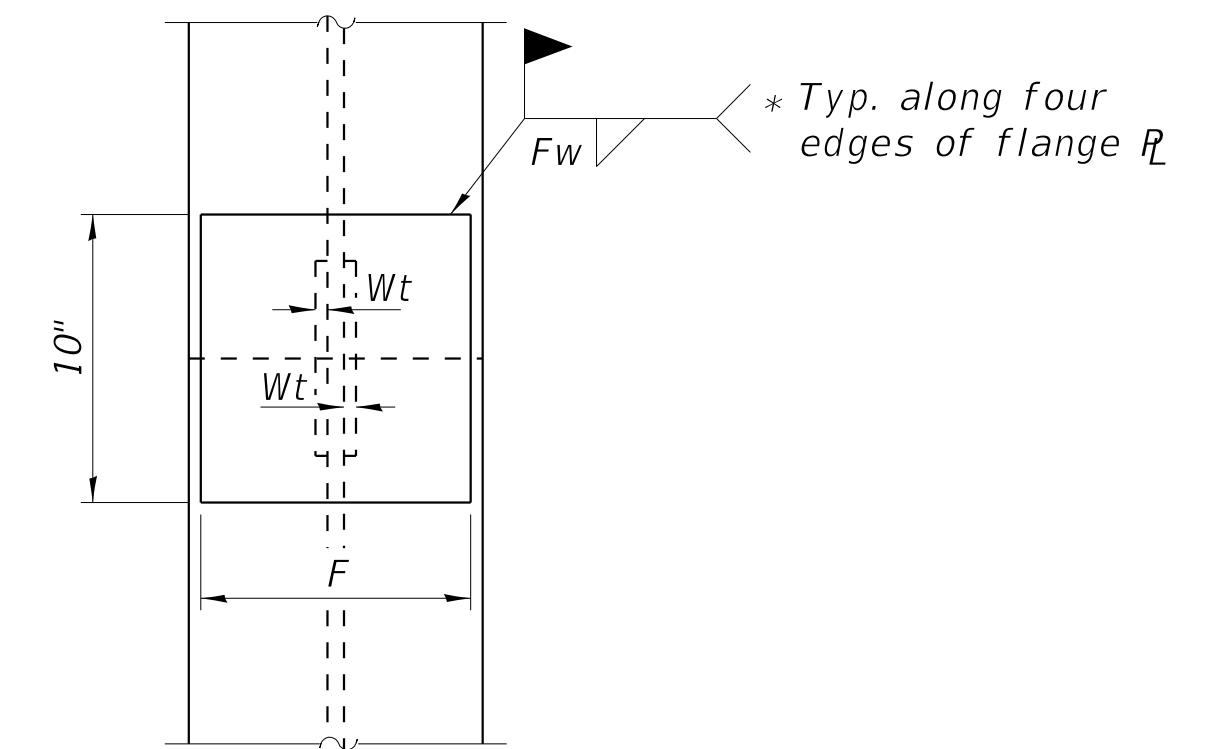
SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASUREMENT
(Forms for encasement may be omitted when soil conditions permit).

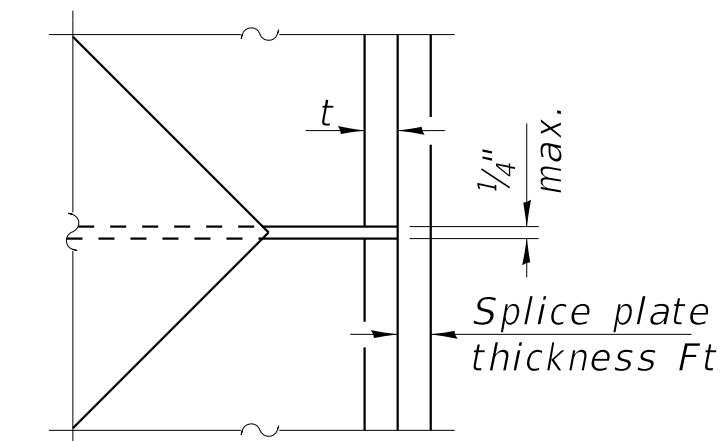
Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. Bend as required to fit into wall.



ELEVATION



END VIEW

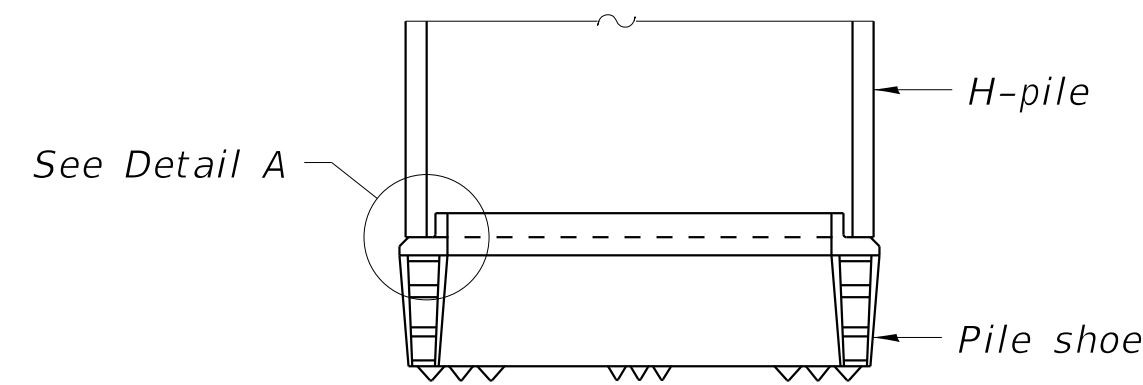


DETAIL D

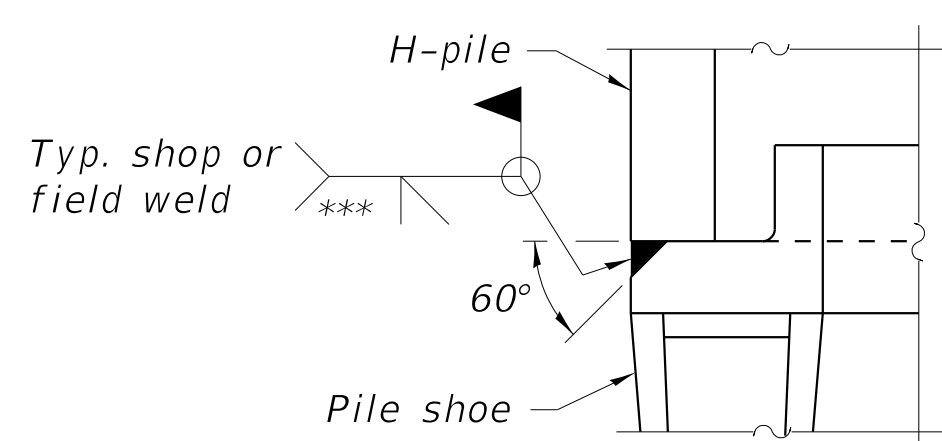
WELDED PLATE FIELD SPLICE

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

ELEVATION



SHOE ATTACHMENT



DETAIL A

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

F-HP 8-11-2017

BAXTER & WOODMAN
Consulting Engineers

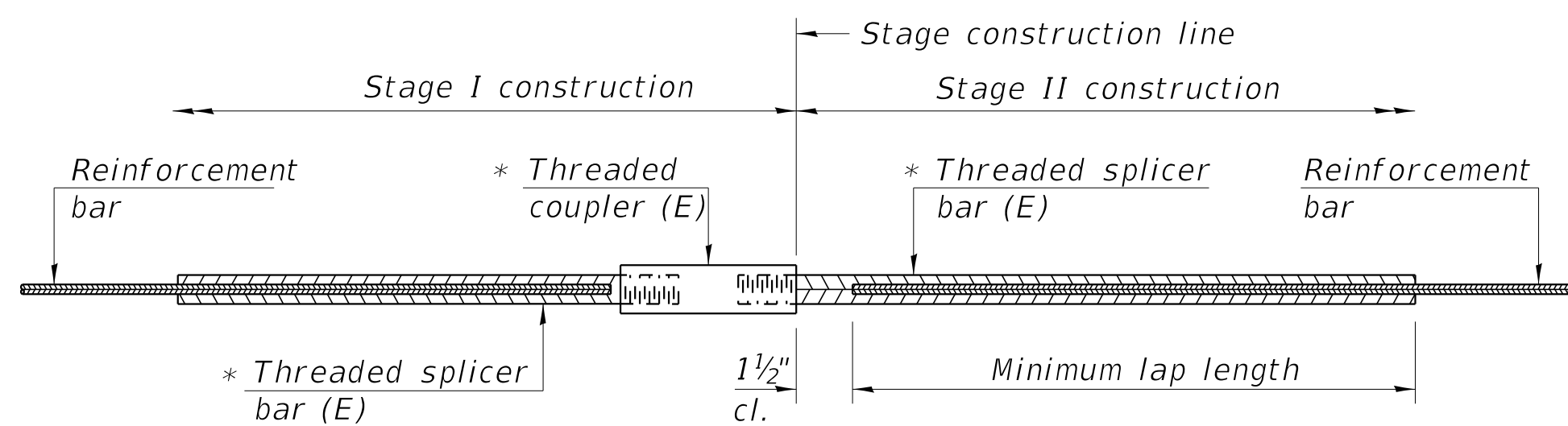
USER NAME =	DESIGNED - AS	REVISED -
PLOT SCALE =	CHECKED - BLB	REVISED -
PLOT DATE =	DRAWN - AS	REVISED -
	CHECKED - BLB	DATE - 11-26-18

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HP PILE DETAILS
STRUCTURE NO. 045-3161**

SHEET 20 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	64
CONTRACT NO. 61F45				
ILLINOIS FED. AID PROJECT				

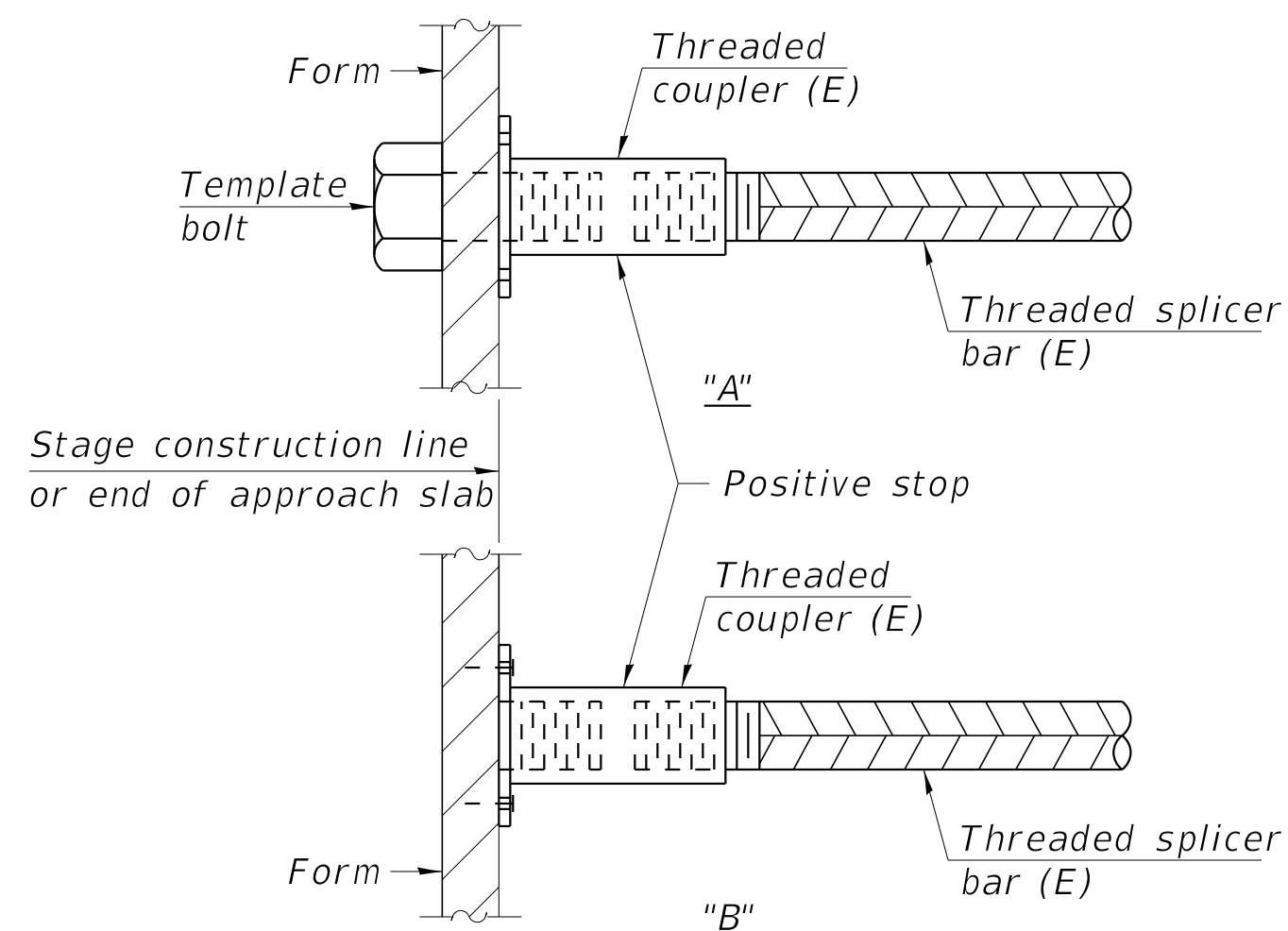


STANDARD BAR SPLICER ASSEMBLY

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

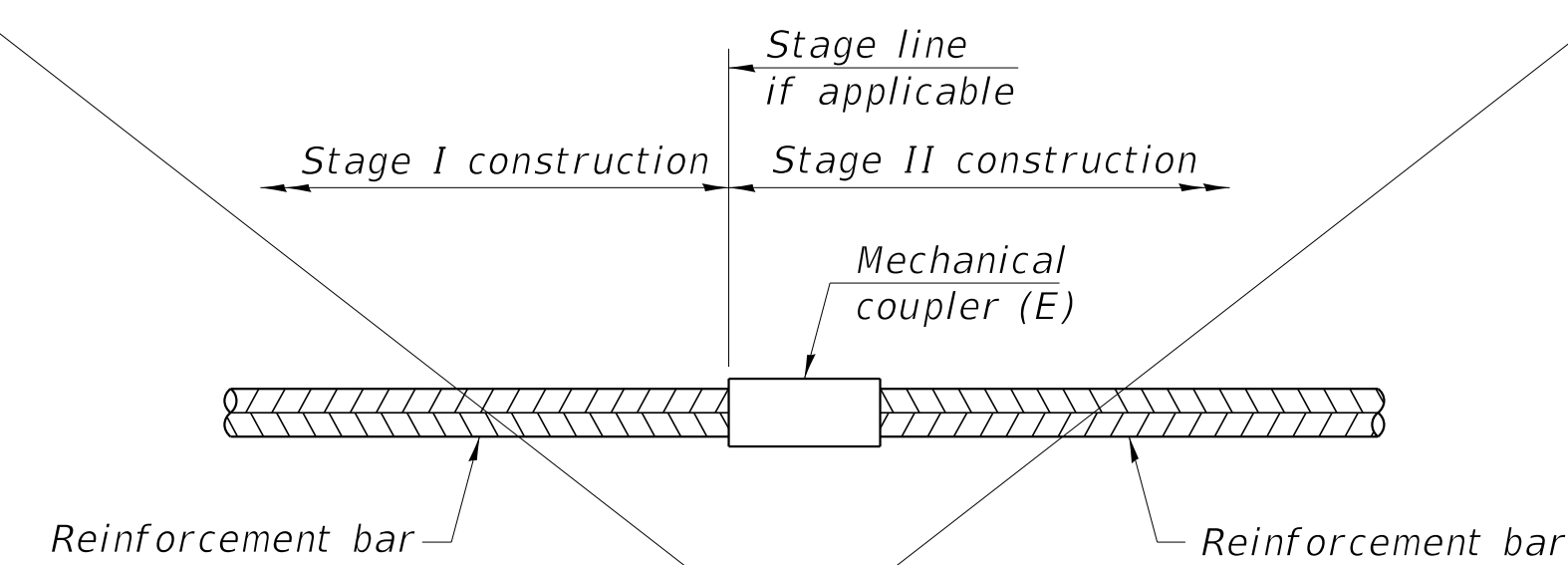
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Bridge slab (top bars)	#7	134	4'-8"
Bridge slab (bottom bars)	#7	142	4'-2"
Approach slabs (top bars)	#5	92	3'-4"
Approach slabs (bottom bars)	#8	124	4'-9"
Approach footings	#5	80	3'-2"
Abutments	#5	8	3'-7"
Abutments	#8	20	5'-9"
Pier caps	#5	8	3'-7"
Pier caps	#7	20	5'-6"
Pier walls	#5	48	3'-7"



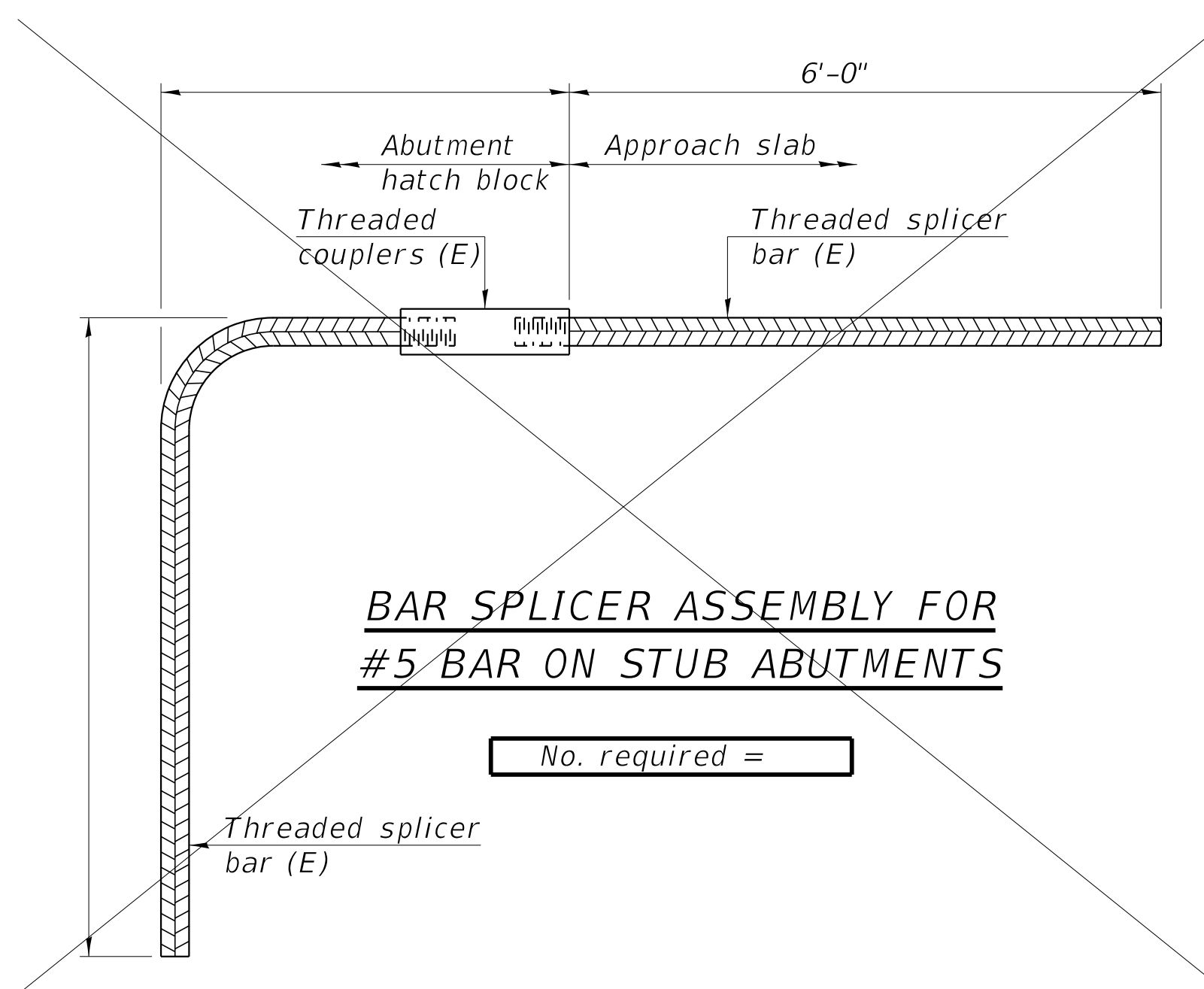
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

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

MODEL: 21 Bar Splicer Assembly Details
 FILE NAME: \\corp.baxwood.com\Projects\Crystal Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\Details.dgn

BSD-1

2-17-2017



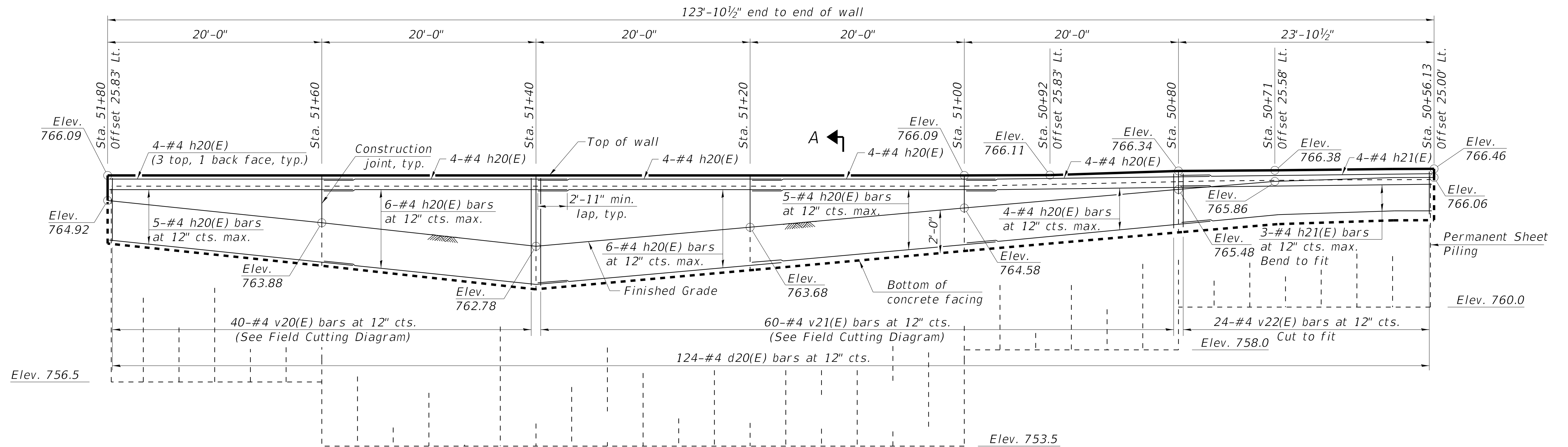
USER NAME =	DESIGNED - AS	REVISED -
	CHECKED - BLB	REVISED -
PLOT SCALE =	DRAWN - AS	REVISED -
PLOT DATE =	CHECKED - BLB	DATE - 11-26-18

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

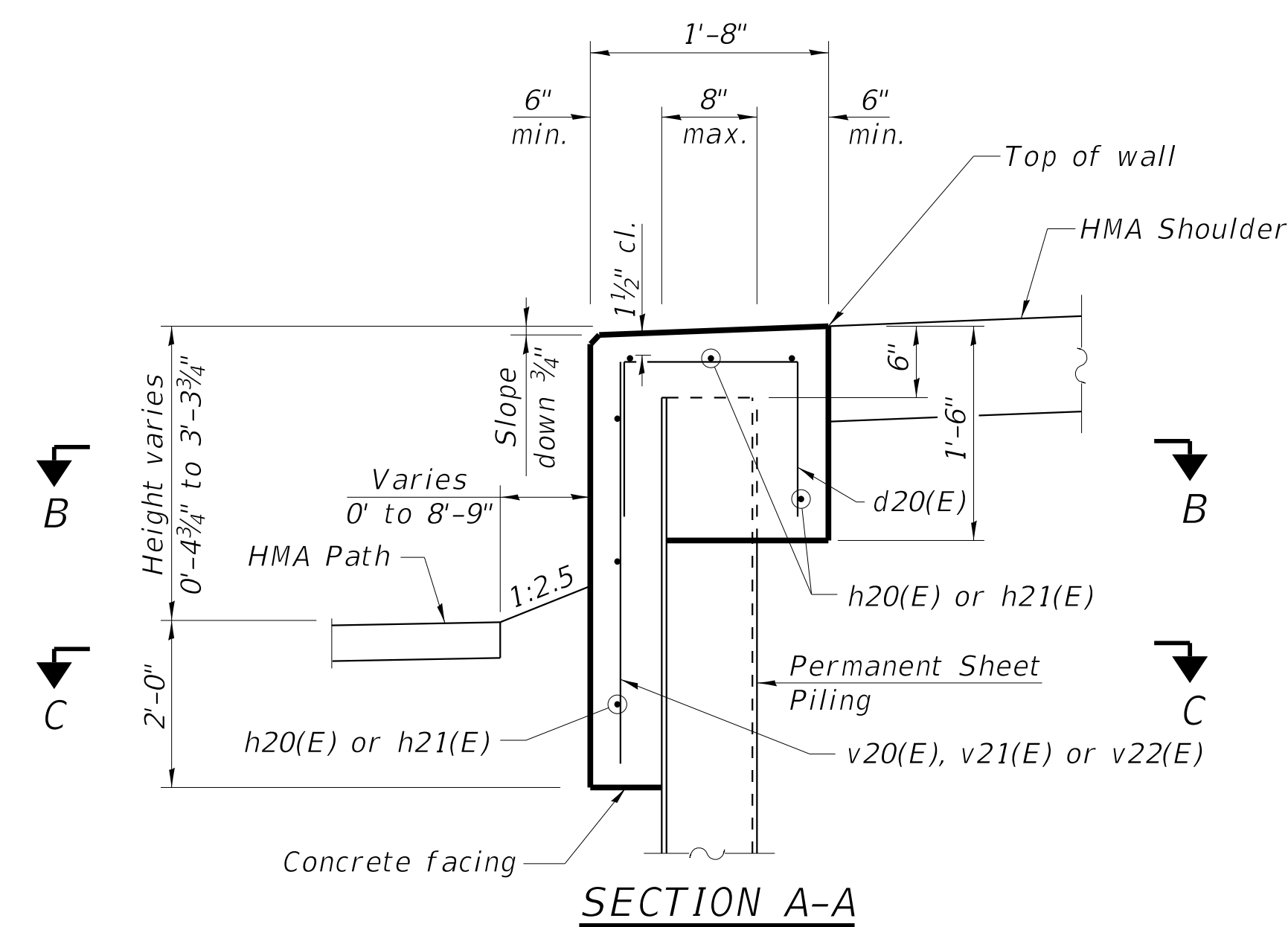
BAR SPLICER ASSEMBLY DETAILS
 STRUCTURE NO. 045-3161

SHEET 21 OF 24 SHEETS

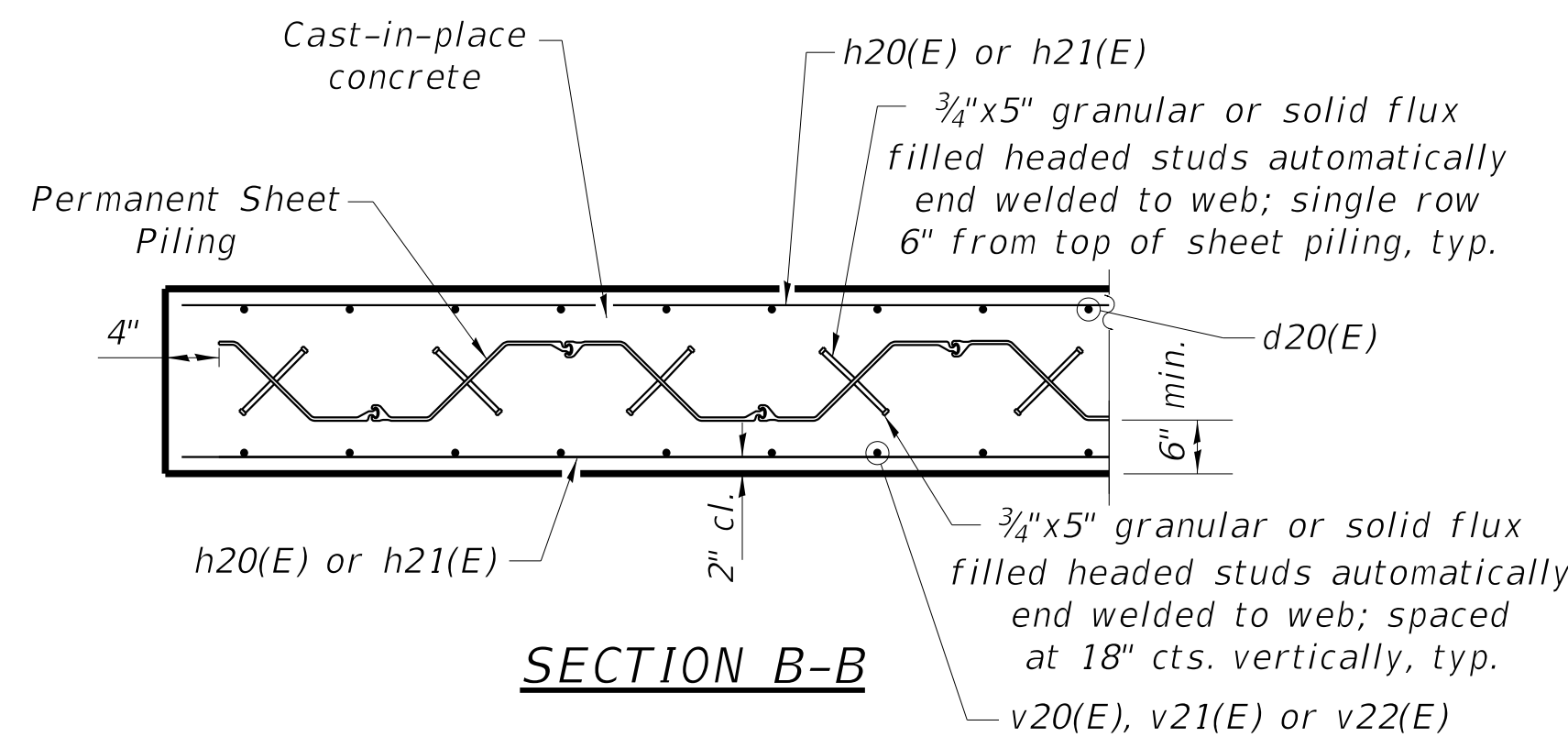
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	65
CONTRACT NO. 61F45			ILLINOIS FED. AID PROJECT	



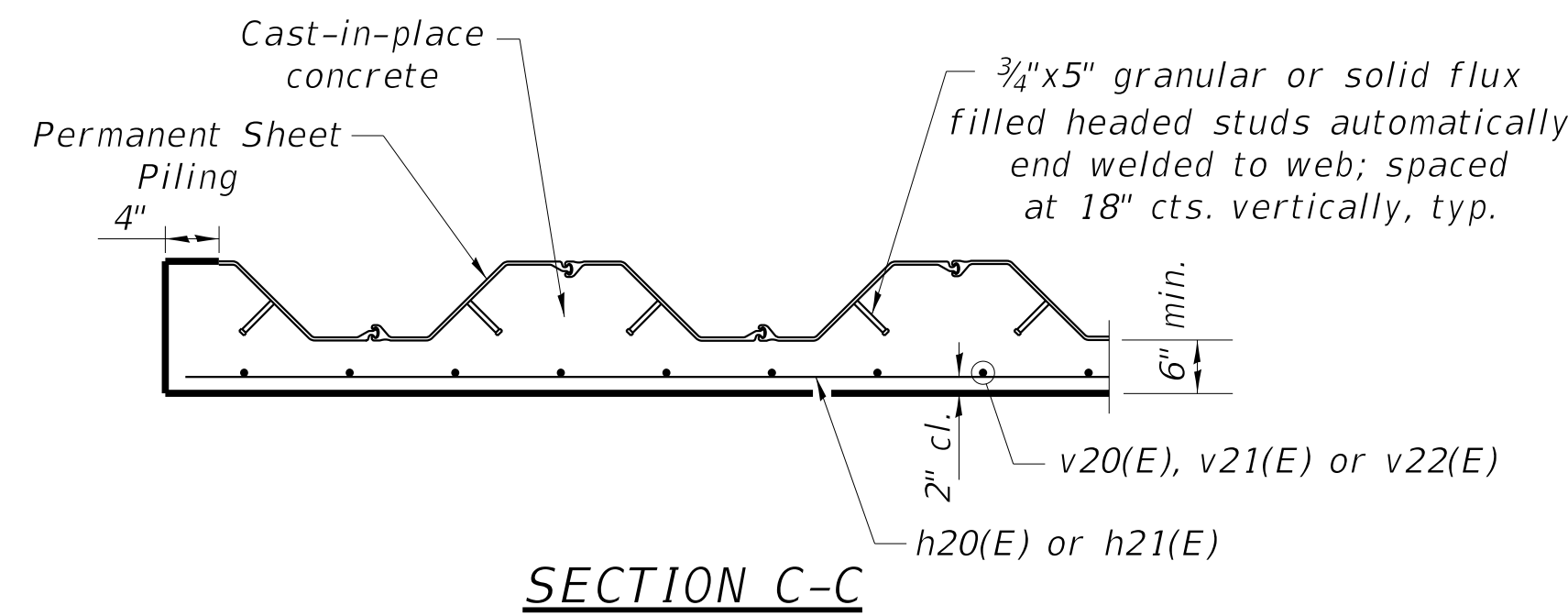
SOUTH ELEVATION



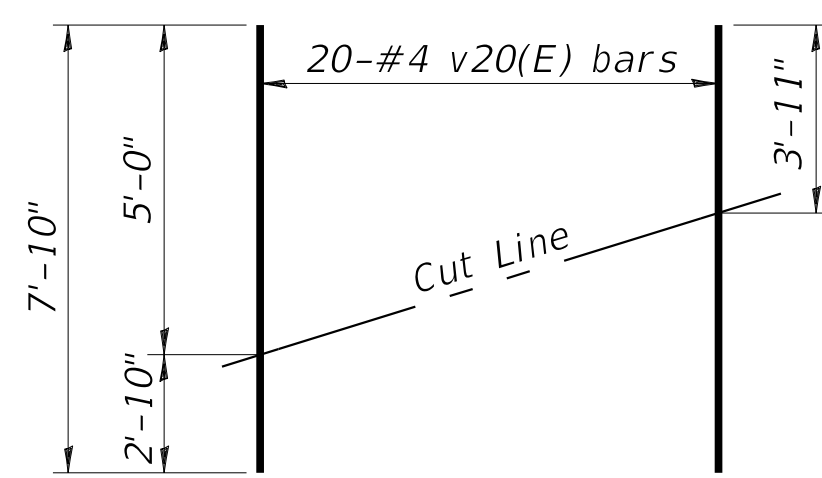
SECTION A-A



SECTION B-B

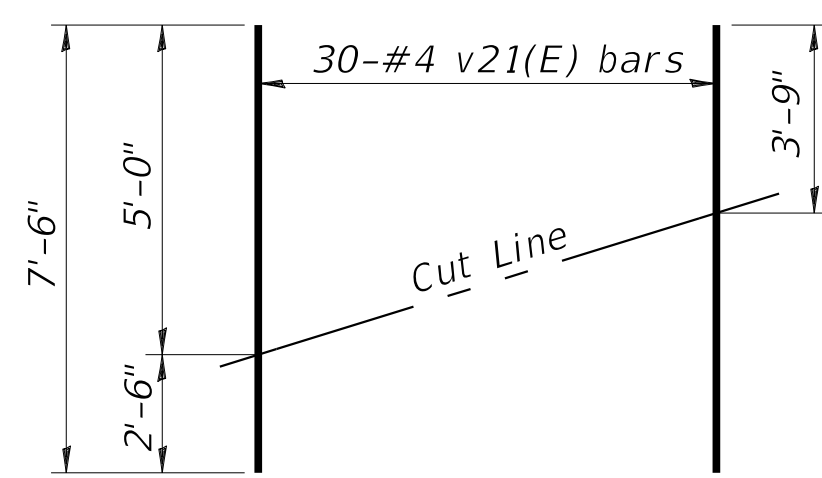


SECTION C-C



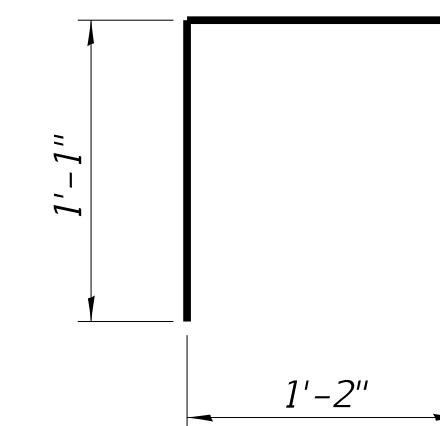
FIELD CUTTING DIAGRAM

Order v20(E) full length and cut as shown.



FIELD CUTTING DIAGRAM

Order v21(E) full length and cut as shown.



BAR d20(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d20(E)	124	#4	3'-4"	□
h20(E)	46	#4	22'-11"	—
h21(E)	7	#4	23'-6"	—
v20(E)	20	#4	7'-10"	—
v21(E)	30	#4	7'-6"	—
v22(E)	24	#4	2'-6"	—
Concrete Structures		Cu. Yd.	20.1	
Stud Shear Connectors		Each	252	
Reinforcement Bars, Epoxy Coated		Pound	1,390	
Permanent Sheet Piling		Foot	1,203	

Notes:
 Minimum required Section Modulus for Permanent Sheet Piling = 7.3 in³/ft.
 Provide 1/2" chamfer along each side of construction joint on exposed faces of concrete cap and facing.

MODEL: Ped Bridge
 FILE NAME: \\corp.baxwood.com\Projects\Crystal_Lake\KANCH\160541-Silver Glen over Otter\CADD\Sheets-PH2\Bridges\PedBridge.dgn

BAXTER & WOODMAN
 Consulting Engineers

USER NAME =	DESIGNED - AS	REVISED -
PLOT SCALE =	CHECKED - BLB	REVISED -
PLOT DATE =	DRAWN - AS	REVISED -
	CHECKED - BLB	DATE - 11-26-18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL DETAILS

SHEET 22 OF 24 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	66
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F45	



USER NAME =	DESIGNED - AS	REVISED -
PLOT SCALE =	CHECKED - BLB	REVISED -
PLOT DATE =	DRAWN - AS	REVISED -
	CHECKED - BLB	DATE - 11-26-18

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BORING LOGS
 STRUCTURE NO. 045-3161

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	67
CONTRACT NO. 61F45			ILLINOIS FED. AID PROJECT	

MSET PROJECT NO.: 17222 LOG OF BORING NO. SB-1										Page 1 of 2	
PROJECT: Silver Glen Road over Otter Creek										Kane County, IL	
BORING LOCATION: NW Abutment										CLIENT: Baxter & Woodman Consulting Engineers	
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE			TESTS			REMARKS	
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf		
0		Pavement: 3" HMA over 3" Crushed Stone	785.2								
3		FILL: Dark Brown, Black, & Grey LOAM, little to some Gravel, A-6(3) stiff	784.7	SS	1	7	14				
6		Dark Grey Sandy CLAY, A-2-6	789.7	SS	2	4	17	1.0 Qp			
9		Dark Grey CLAY, trace Sand, little Gravel, A-7-6	787.2	SS	3	3	28	0.25 Qp			
12		Grey SAND and GRAVEL, trace Silt, A-1-a	784.7	SS	4	3	21	105	0.58		
15		Brown SAND, trace to little Gravel, A-3	782.7	SS	5	21	5				
18		Grey Weathered Limestone	745.7	SS	6	10	12				
21		Grey Dolomitic Limestone	744.7	SS	7	11	21				
				SS	8	62/10"					
				SS	10"	12					

WATER LEVEL OBSERVATIONS, ft.	6.0'	Ground
DURING DRILLING		
IMMEDIATELY AFTER DRILLING		
DELAYED READING AFTER		

MSET

BORING STARTED: 3/1/17
 BORING COMPLETED: 3/1/17
 LOGGED BY: GPF
 BORING METHOD: HSA

Milford Standard Engineering & Testing, Inc. 688 Place Drive Unit 6, East Dundee, IL 60119 (847) 944-1995 (847) 944-3976

MSET PROJECT NO.: 17222 LOG OF BORING NO. SB-1										Page 2 of 2	
PROJECT: Silver Glen Road over Otter Creek										Kane County, IL	
BORING LOCATION: NW Abutment										CLIENT: Baxter & Woodman Consulting Engineers	
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE			TESTS			REMARKS	
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf		
24		Grey Dolomitic Limestone	741.2	RC							
27				RC							ROD = 15%
30				RC							ROD = 15%
33				RC							ROD = 15%
			739.7								

WATER LEVEL OBSERVATIONS, ft.	6.0'	Ground
DURING DRILLING		
IMMEDIATELY AFTER DRILLING		
DELAYED READING AFTER		

MSET

BORING STARTED: 3/1/17
 BORING COMPLETED: 3/1/17
 LOGGED BY: GPF
 BORING METHOD: HSA

Milford Standard Engineering & Testing, Inc. 688 Place Drive Unit 6, East Dundee, IL 60119 (847) 944-1995 (847) 944-3976

MSET PROJECT NO.: 17222 LOG OF BORING NO. SB-2										Page 1 of 1	
PROJECT: Silver Glen Road over Otter Creek										Kane County, IL	
BORING LOCATION: NE Abutment										CLIENT: Baxter & Woodman Consulting Engineers	
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE			TESTS			REMARKS	
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf		
0		Pavement: 6" HMA over 12" Limestone Base	785.4								
3		FILL: Dark Brown Clay LOAM to Sandy Clay LOAM, A-6, stiff to soft	783.9	SS	1A	10	14				
6		Dark Brown Clay LOAM to LOAM, A-7-6, possible Fill, soft	782.4	SS	1B	7	17	1.25 Qp			
9		Brown SAND and GRAVEL, A-1-b, medium dense	766.9	SS	2	1	22	102	0.39		
12		Brown & Grey SAND, A-3, medium dense	762.4	SS	3	3	22	0.25 Qp			
15				SS	4	14	11				
18				SS	5	13	19				
21		Refusal at 21.8 Feet, Limestone Bedrock	743.8	SS	6	10	12				
				SS	7	14	12				
				SS	8	15	6				
				SS	9	66/10"	5				

WATER LEVEL OBSERVATIONS, ft.	8.9'	Ground
DURING DRILLING		
IMMEDIATELY AFTER DRILLING		
DELAYED READING AFTER		

MSET

BORING STARTED: 3/1/17
 BORING COMPLETED: 3/1/17
 LOGGED BY: GPF
 BORING METHOD: HSA

Milford Standard Engineering & Testing, Inc. 688 Place Drive Unit 6, East Dundee, IL 60119 (847) 944-1995 (847) 944-3976

MSET PROJECT NO.: 17222 LOG OF BORING NO. SB-3										Page 1 of 1	
PROJECT: Silver Glen Road over Otter Creek										Kane County, IL	
BORING LOCATION: SW Abutment										CLIENT: Baxter & Woodman Consulting Engineers	
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE			TESTS			REMARKS	
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Unconfined Compressive Strength, tsf		
0		Pavement: 11" HMA over Limestone Base	766.3								
3		FILL: Brown GRAVEL, some Sand, A-7-6, slightly dense	765.4	SS	1	7	5				
6		Dark Brown LOAM, A-6 with fibers, occasional sand, gravel pockets	760.8	SS	2	6	11				
9				SS	3	3					
12		Grey Sandy LOAM, A-2-4, slightly dense	764.3	SS	4	2	27				
15		coarse sand seam at 12 feet		SS	5	4	20	98	0.54		
18		Grey SAND, A-3 slightly to medium dense	760.8	SS	6	6	23				
21		fine sand layer at 19 feet		SS	7	5	19				
				SS	8	11	21				
				SS	9	7"	7				
				SS	59/7"						
				SS	9	7"	7				

WATER LEVEL OBSERVATIONS, ft.	12.0'	Ground
DURING DRILLING		
IMMEDIATELY AFTER DRILLING		
DELAYED READING AFTER		

MSET

BORING STARTED: 3/1/17
 BORING COMPLETED: 3/1/17
 LOGGED BY: GPF
 BORING METHOD: HSA

Milford Standard Engineering & Testing, Inc. 688 Place Drive Unit 6, East Dundee, IL 60119 (847) 944-1995 (847) 944-3976

USER NAME =	DESIGNED - AS	REVISED -
PLOT SCALE =	CHECKED - BLB	REVISED -
PLOT DATE =	DRAWN - AS	REVISED -
	CHECKED - BLB	DATE - 11-26-18

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	68
CONTRACT NO. 61F45			ILLINOIS FED. AID PROJECT	

MSET PROJECT NO.: 17222 LOG OF BORING NO. SB-4											
Page 1 of 2											
PROJECT: Silver Glen Road over Otter Creek Kane County, IL											
BORING LOCATION: SE Abutment CLIENT: Baxter & Woodman Consulting Engineers											
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE			TESTS			REMARKS	
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Uncorrected Compressive Strength, tsf		
0		Pavement: 6" HMA over 12" RAP	786.6								
3		FILL: Black CLAY, A-7-8 to A-8 firm	785.0	SS	1	4	36		0.58		
6		FILL: Black Clay LOAM, A-6 very stiff/83.6		SS	2	12	19	97	2.06		
9		Brown and Grey Clay LOAM, A-6 very stiff	781.0	SS	3	8	27	89	2.13		
12		Brown SAND, A-3 medium dense	786.6	SS	4	11	12				
15		Grey SAND, some Gravel, A-1-b medium dense	781.0	SS	7	11	13				
18		Grey SAND and GRAVEL, A-1-a medium dense	748.4	SS	8	15	9				
21				SS	9	21	10				

WATER LEVEL OBSERVATIONS: ft. 10.0' Ground
 BORING STARTED: 3/6/17
 BORING COMPLETED: 3/6/17
 LOGGED BY: GPF
 BORING METHOD: ISA

MSET PROJECT NO.: 17222 LOG OF BORING NO. SB-4											
Page 2 of 2											
PROJECT: Silver Glen Road over Otter Creek Kane County, IL											
BORING LOCATION: SE Abutment CLIENT: Baxter & Woodman Consulting Engineers											
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE			TESTS			REMARKS	
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Uncorrected Compressive Strength, tsf		
24		Fractured Dolomitic Limestone Bedrock	743.0	RC							ROD = 7%
27				RC							ROD = 8%
30				RC							ROD = 32%
33				RC							
36				RC							
		End of Boring at 38.5	728.0								

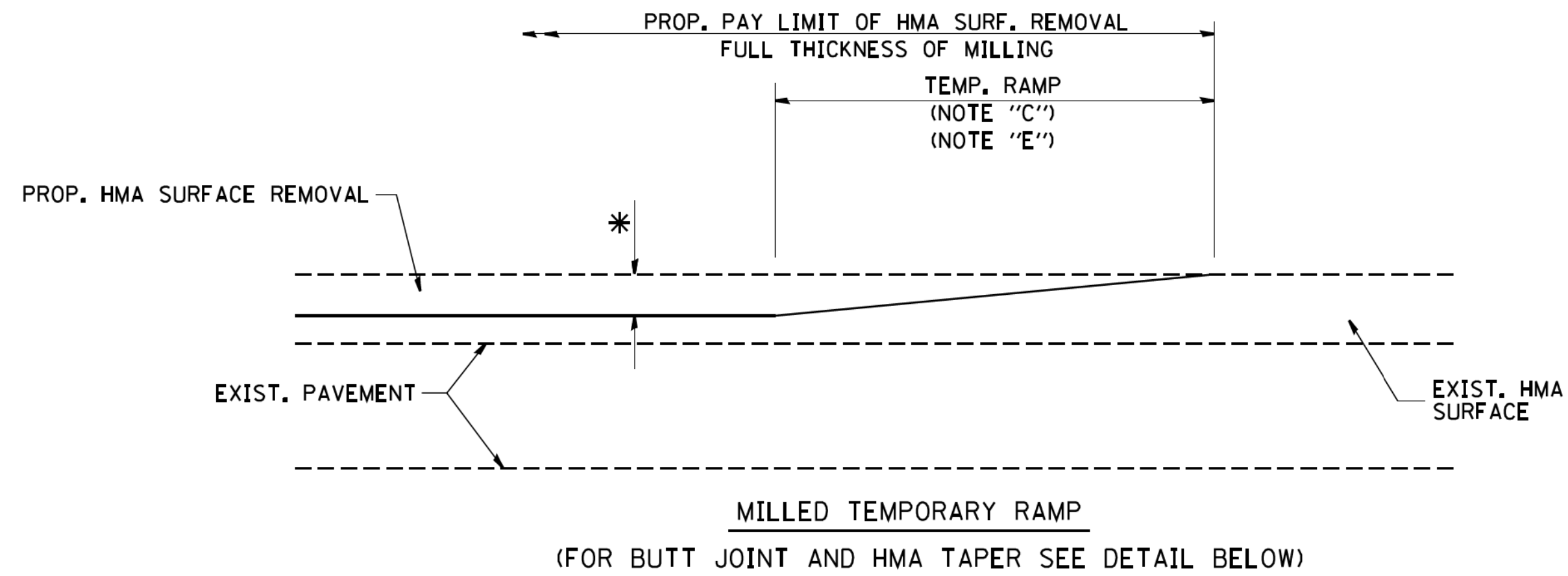
WATER LEVEL OBSERVATIONS: ft. 10.0' Ground
 BORING STARTED: 3/6/17
 BORING COMPLETED: 3/6/17
 LOGGED BY: GPF
 BORING METHOD: ISA

MSET PROJECT NO.: 17222 LOG OF BORING NO. SB-5											
Page 1 of 1											
PROJECT: Silver Glen Road over Otter Creek Kane County, IL											
BORING LOCATION: NE Pier CLIENT: Baxter & Woodman Consulting Engineers											
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE			TESTS			REMARKS	
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Uncorrected Compressive Strength, tsf		
0		FILL: Black CLAY, A-6 with some RAP	788.8								
3		Dark Brown, Sandy Clay LOAM, A-6 slightly dense	789.0	SS	1A	8	20				
6		Grey SAND and GRAVEL, A-1-a slightly dense	757.6	SS	1B	5	13				
9		Grey SAND, little to some Gravel, A-1-b to A-3, very loose to slightly dense	785.8	SS	2	7	14				No Recovery
12				SS	3	1	-				
15				SS	4	1	10				
18				SS	5	5	16				
21		Refusal on Fractured Limestone Bedrock	744.1	SS	6	60/ 9'	16				

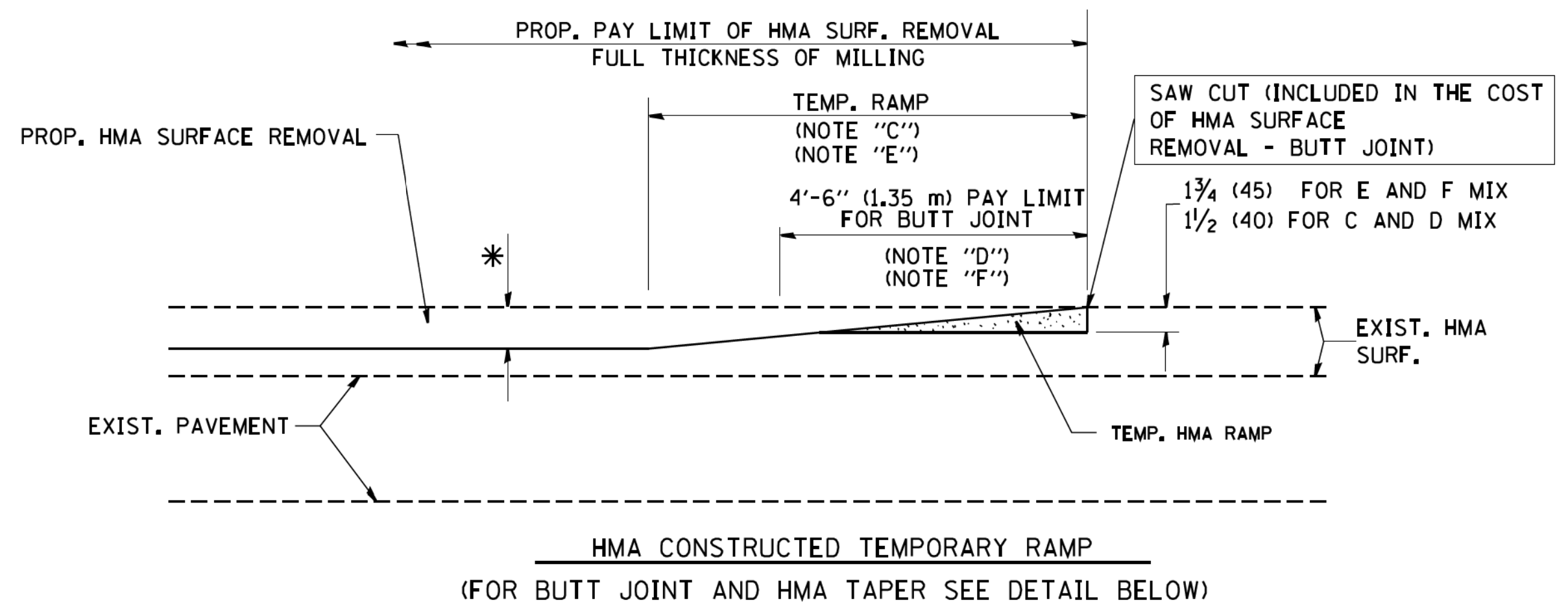
WATER LEVEL OBSERVATIONS: ft. 2.0' Ground
 BORING STARTED: 3/6/17
 BORING COMPLETED: 3/6/17
 LOGGED BY: GPF
 BORING METHOD: ISA

MSET PROJECT NO.: 17222 LOG OF BORING NO. SB-6											
Page 1 of 1											
PROJECT: Silver Glen Road over Otter Creek Kane County, IL											
BORING LOCATION: SW Pier CLIENT: Baxter & Woodman Consulting Engineers											
DEPTH (feet)	SOIL TYPE	Material Description	Elevation	SAMPLE			TESTS			REMARKS	
				TYPE/INTERVAL	NO.	N-VALUE Blows per ft.	Wc%	Dry Unit Weight, pcf	Uncorrected Compressive Strength, tsf		
0		Black CLAY, A-6 Topsoil	750.8								
3		Dark Grey Sandy CLAY, A-2.6 soft	756.8	SS	2A	2	28	87			1.0 Qp
6		Brown to Grey SAND, some Gravel, A-1-a slightly to medium dense	755.0	SS	2B	12	14				
9				SS	3	15	7				
12				SS	4	9	7				
15				SS	5	7	13				
18				SS	6	10	12				
21		Refusal on Fractured Limestone at 15.8'	743.7	SS	6	10	12				

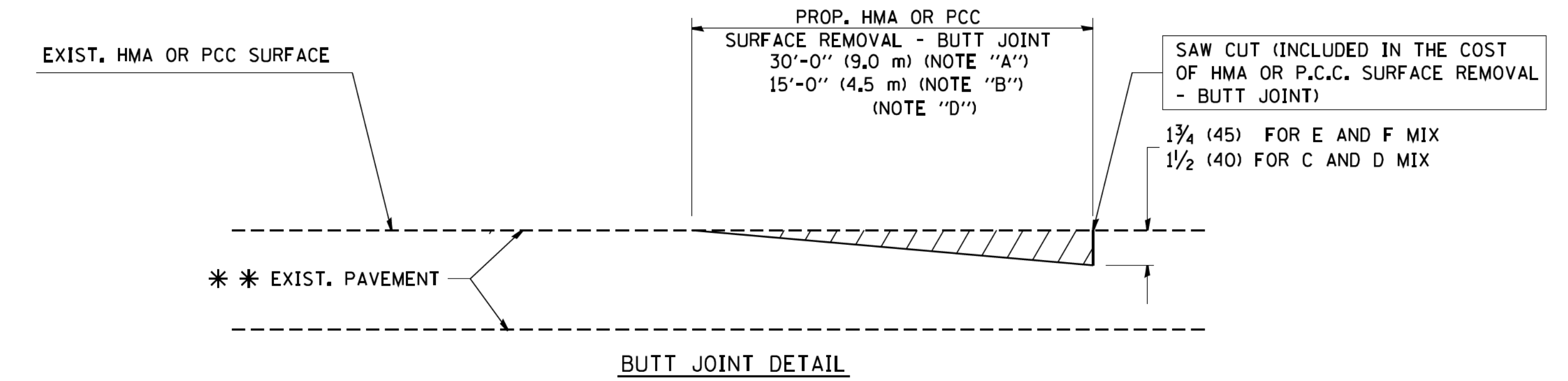
WATER LEVEL OBSERVATIONS: ft. 4.5' Ground
 BORING STARTED: 3/6/17
 BORING COMPLETED: 3/6/17
 LOGGED BY: GPF
 BORING METHOD: ISA



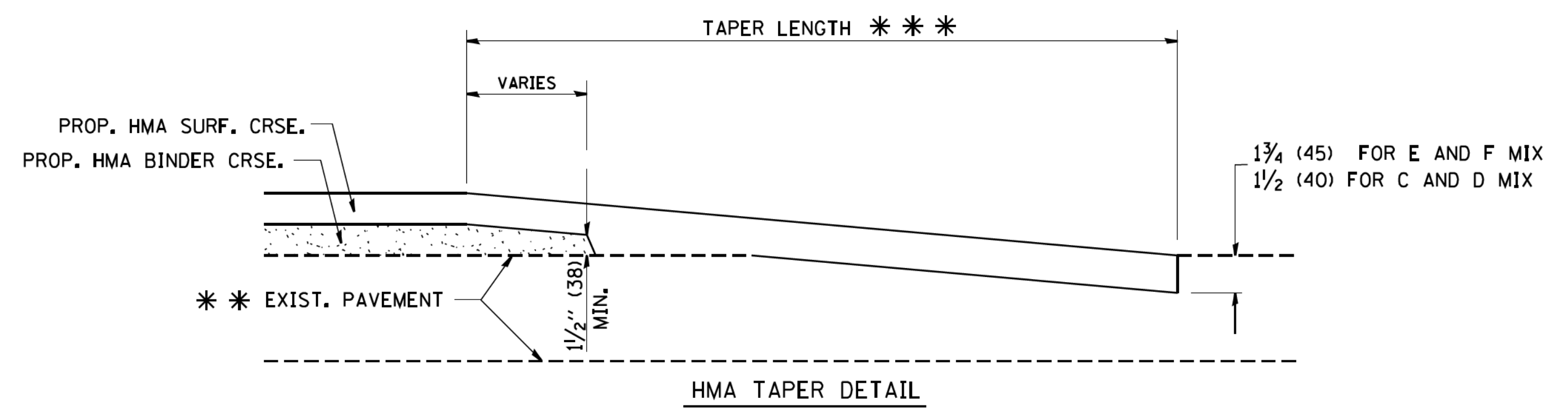
OPTION 1



OPTION 2
TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

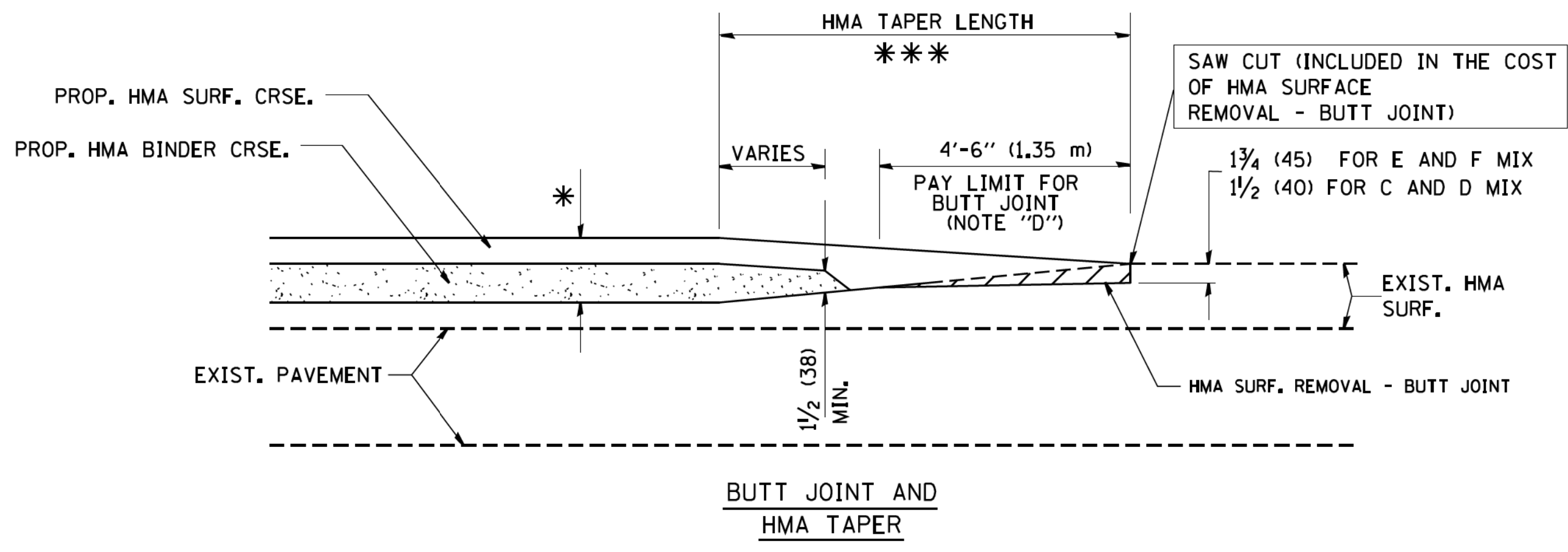
NOTES

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

BASIS OF PAYMENT:

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

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



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

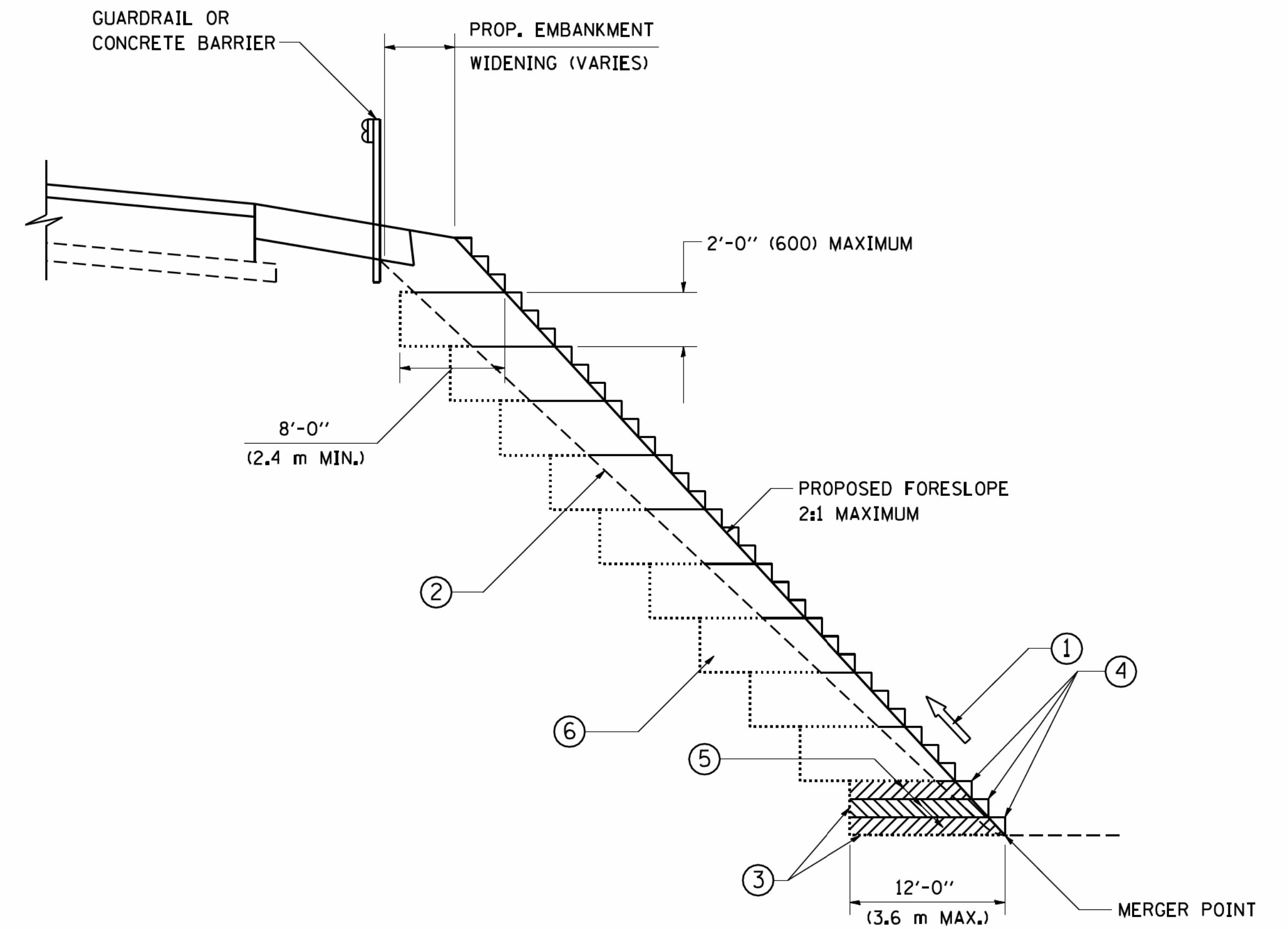
COPYRIGHT © 2017 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 1500 S. WASHINGTON ST., SUITE 200, CHICAGO, IL 60605
 TEL: 312.467.1000 FAX: 312.467.1001
 WWW.BAXTERANDWOODMAN.COM

FILE NAME = W:\diststd\22x34\bd32.dgn	USER NAME = geglanoht	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94
		DRAWN -	REVISED - A. ABBAS 03-21-97
	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. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	69
BD400-05 BD32		CONTRACT NO. 61F45		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HILS(183)				



**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.

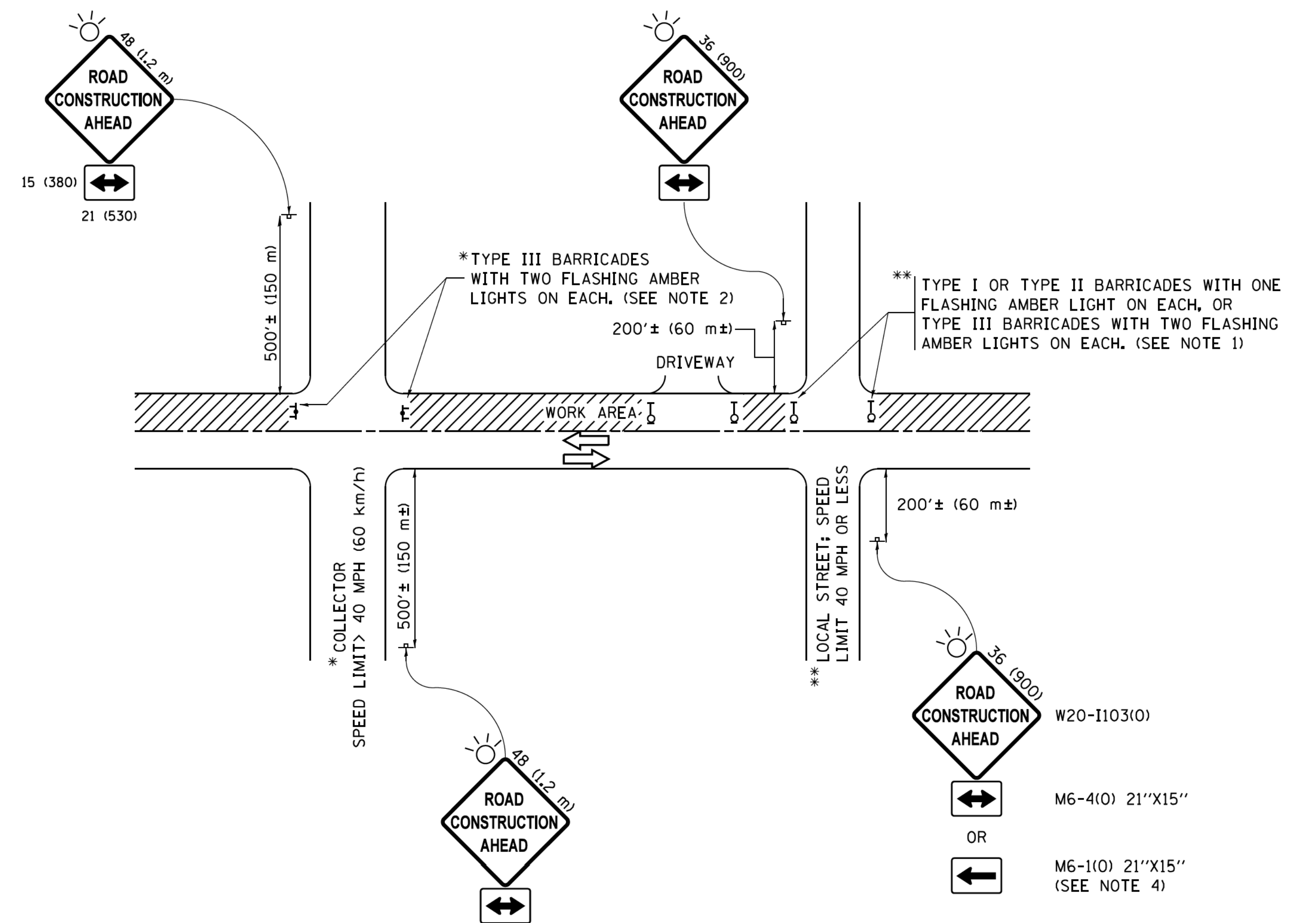
FILE NAME = W:\diststd\22x34\bd51.dgn	USER NAME = geglianobt	DESIGNED - DRAWN - CADD	REVISED - REVISED -
PLOT SCALE = 50.0000 / / IN.	CHECKED - S.E.B.	REVISED -	REVISED -
PLOT DATE = 1/4/2008	DATE - 06-16-04	REVISED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BENCHING DETAIL FOR EMBANKMENT WIDENING			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE. 526	SECTION 16-00115-02-BR	COUNTY KANE	TOTAL SHEETS 81	SHEET NO. 70
BD-51		CONTRACT NO. 61F45		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HILS(183)				

COPYRIGHT © 2017 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 W:\diststd\22x34\bd51.dgn
 2/17/2018 4:09:23 PM
 I:\Crosstall\LakeMAN\CON\60301-Silver_Clien_over\01ter\CADD\Sheet\Ph2\60548\SHIT_0\DETAILS - BD.dgn



NOTES:

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 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. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. 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).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

COPYRIGHT © 2017 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 1636 S. WASHINGTON ST., SUITE 200, CHICAGO, IL 60607
 TEL: 312.467.1700 FAX: 312.467.1701
 WWW.BAXTERANDWOODMAN.COM

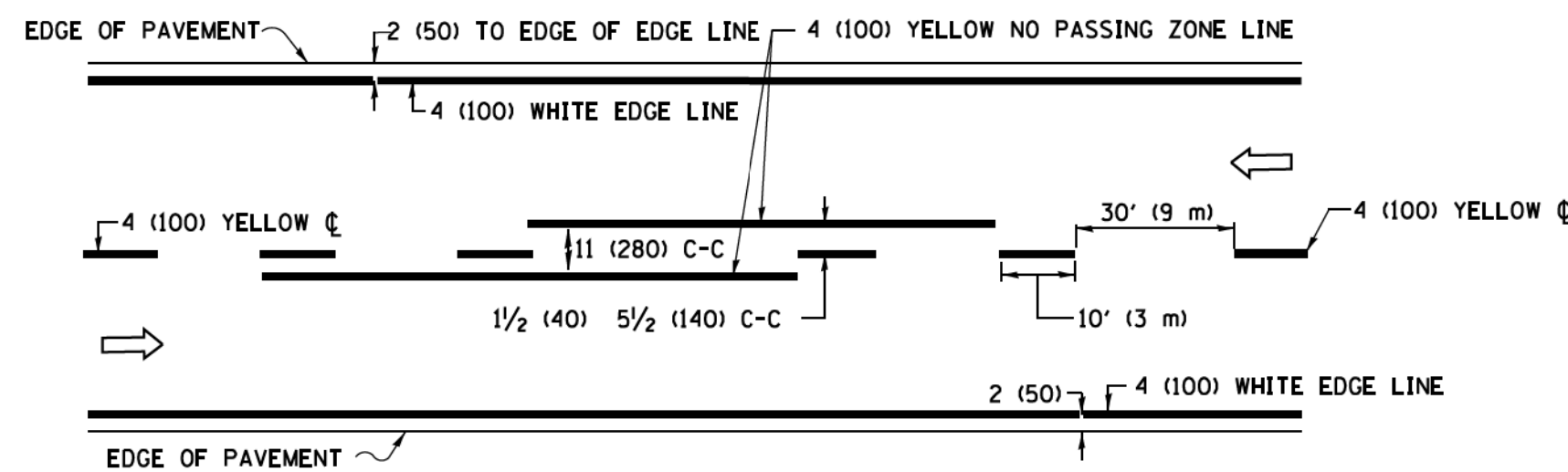
FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
pw\11084EBID\INTEG\11nois.gov\FWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\CADD\cadd\CADsheets\tc10.dgn		DRAWN	REVISED - T. RAMMACHER 01-06-00
	PLOT SCALE = 50.000' / 1" =	CHECKED -	REVISED - A. SCHUETZE 07-01-13
Default	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

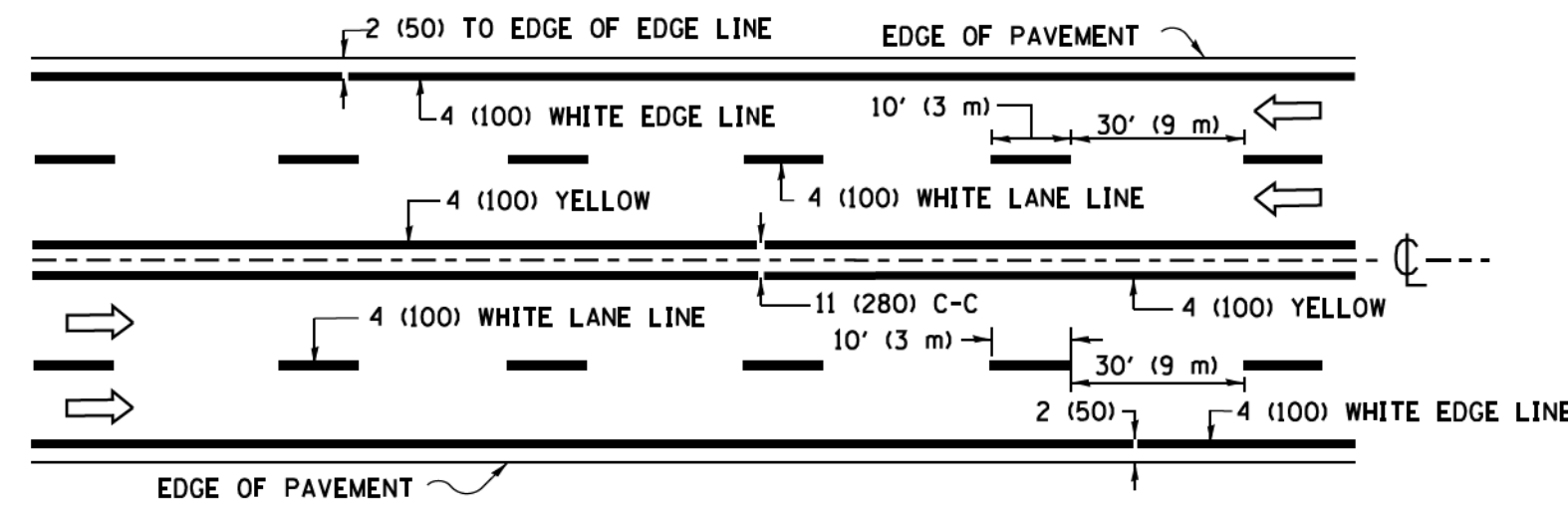
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.
-------------	---------	------	--------	------	---------

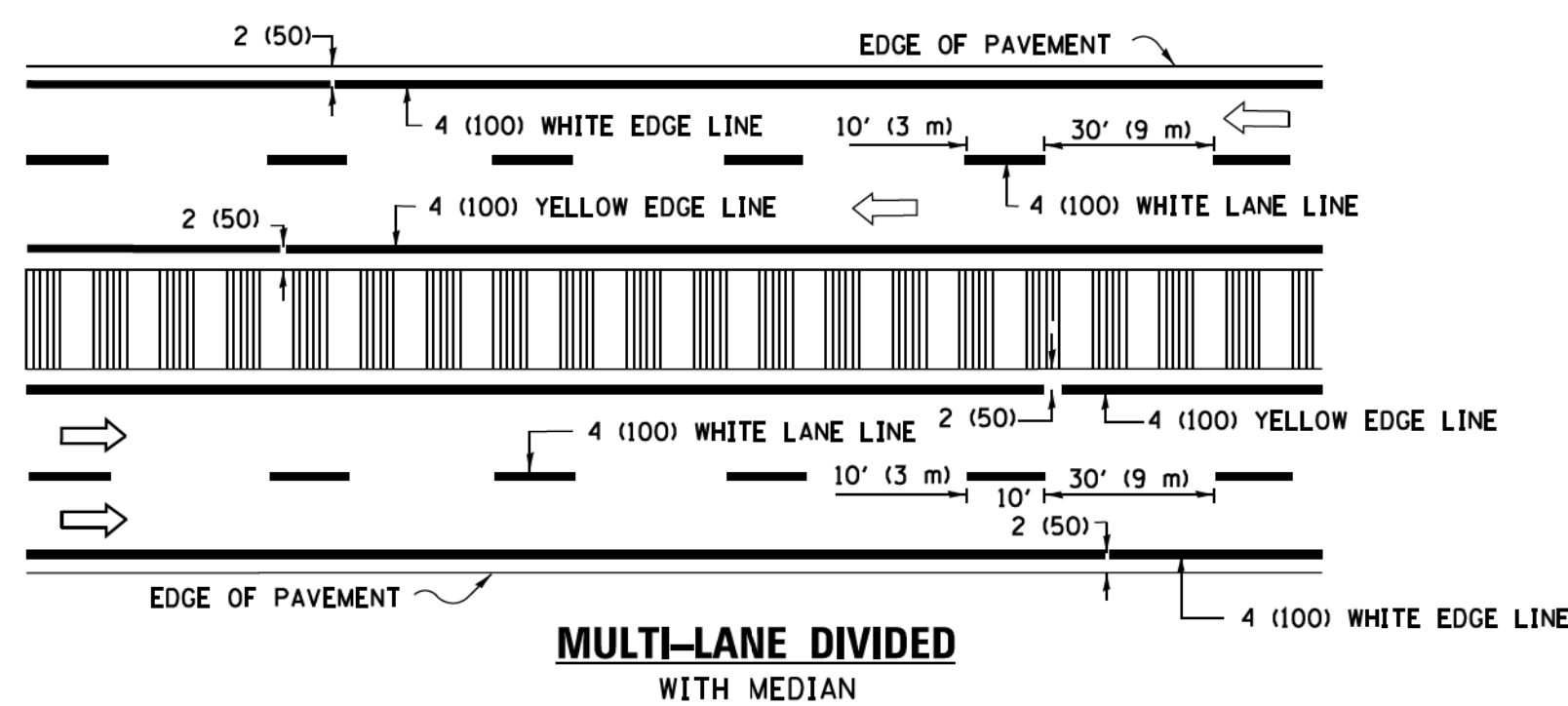
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	71
TC-10			CONTRACT NO. 61F45	
ILLINOIS FED. AID PROJECT HILS(183)				



2-LANE ROADWAY

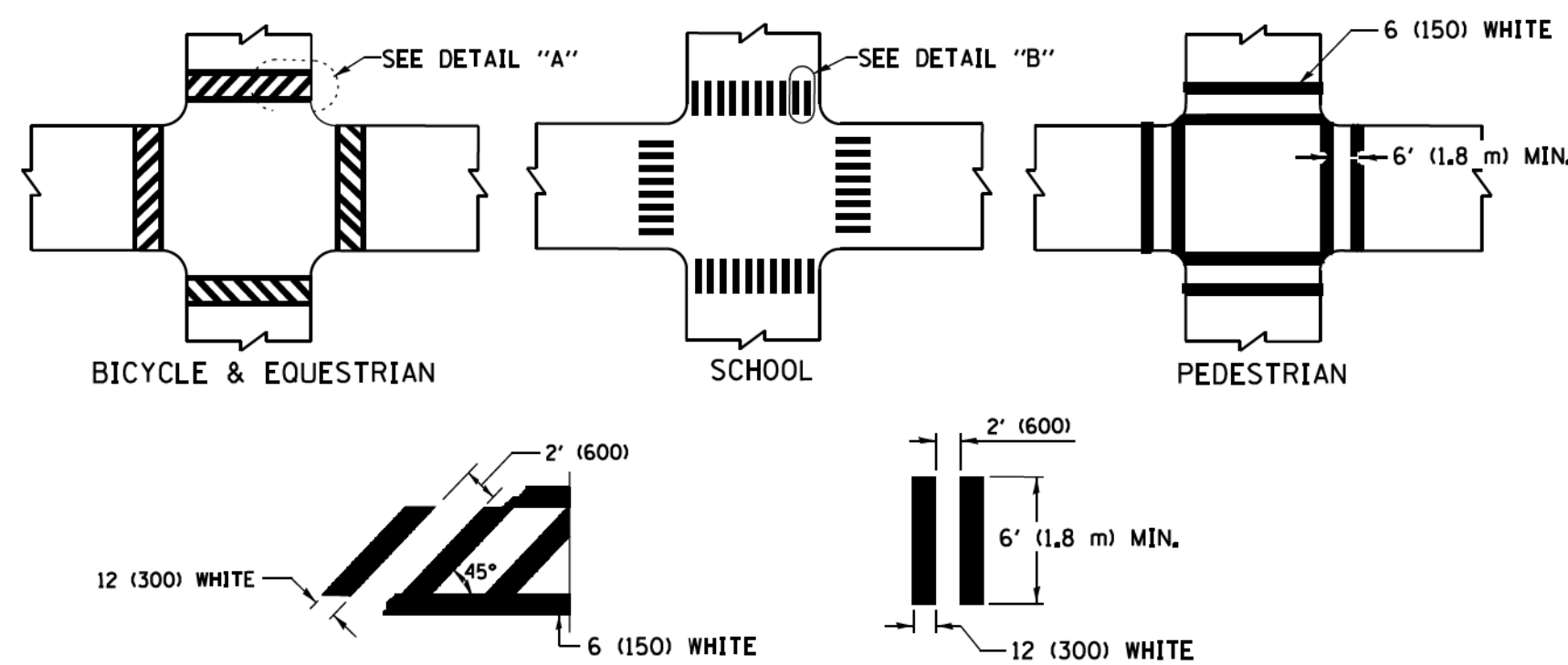


MULTI-LANE UNDIVIDED



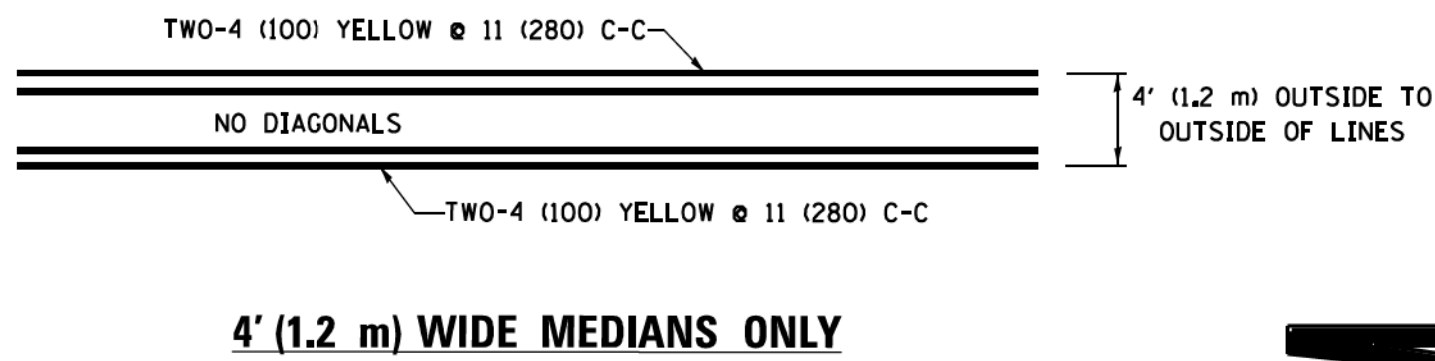
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

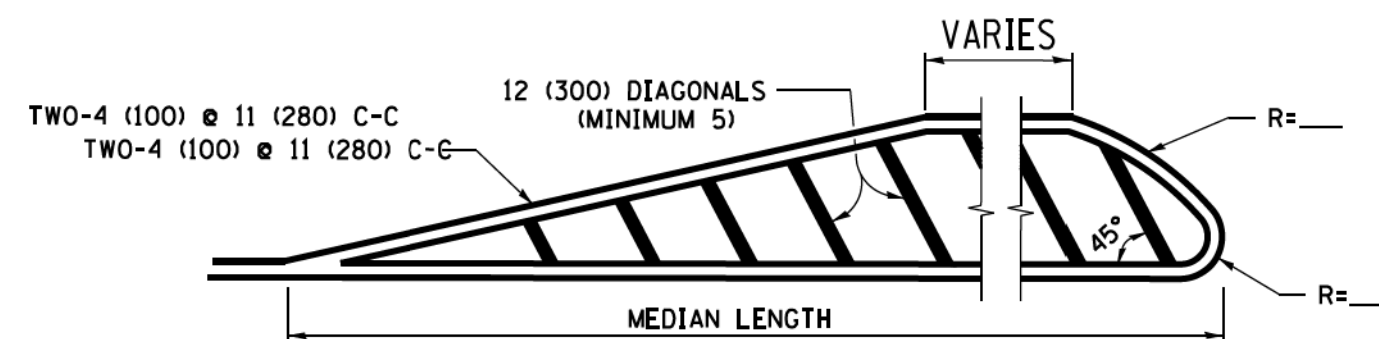


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

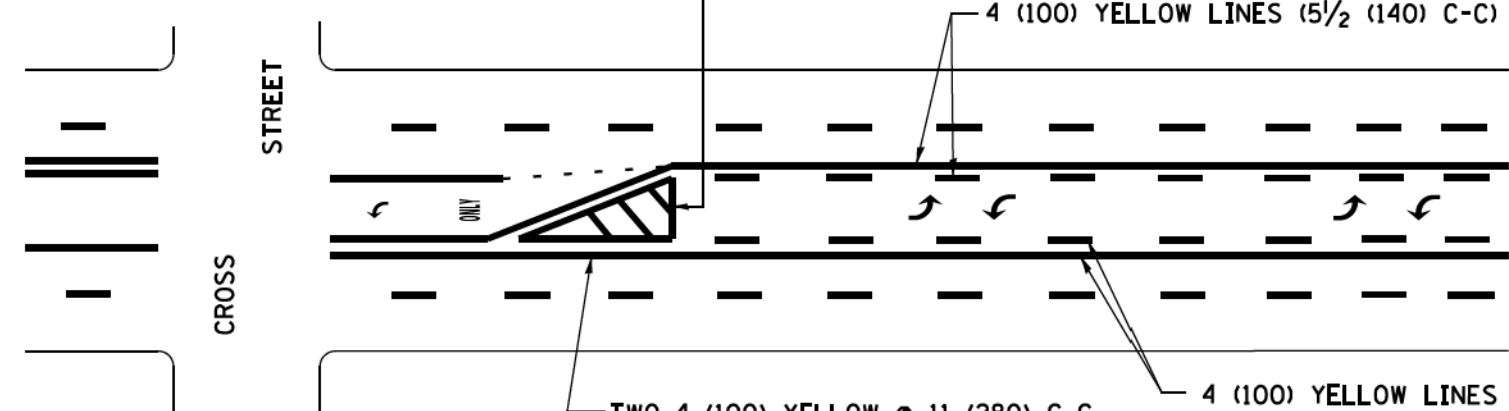


4' (1.2 m) WIDE MEDIANS ONLY



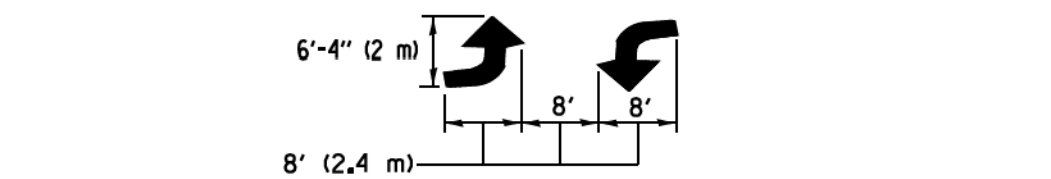
MEDIANS OVER 4' (1.2 m) WIDE

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 (MORE THAN 45MPH (70 km/h))



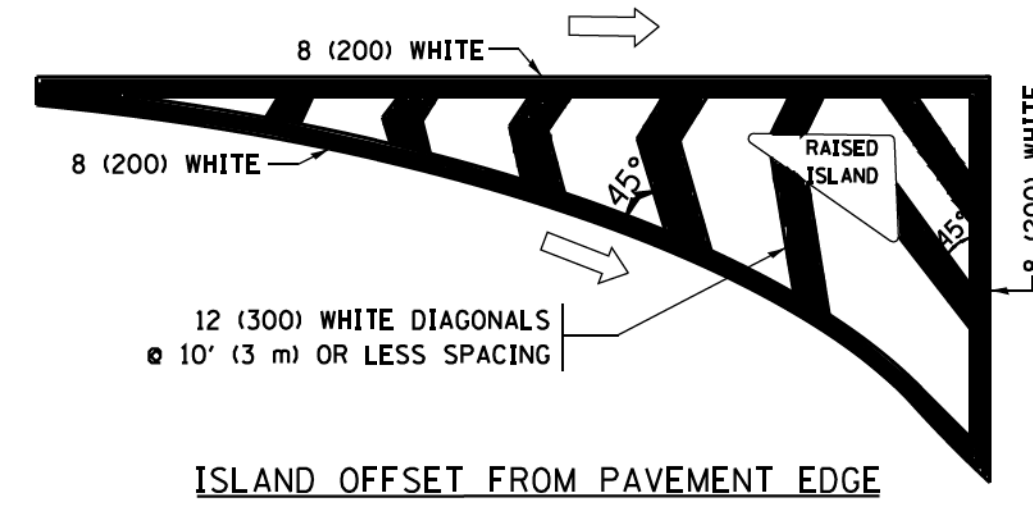
**MEDIAN WITH TWO-WAY LEFT TURN LANE
TYPICAL PAINTED MEDIAN MARKING**

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

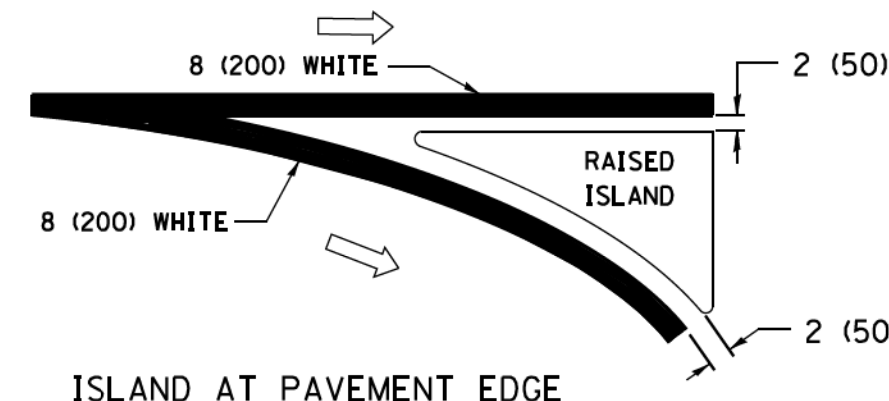


**TYPICAL LEFT (OR RIGHT) TURN LANE
TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

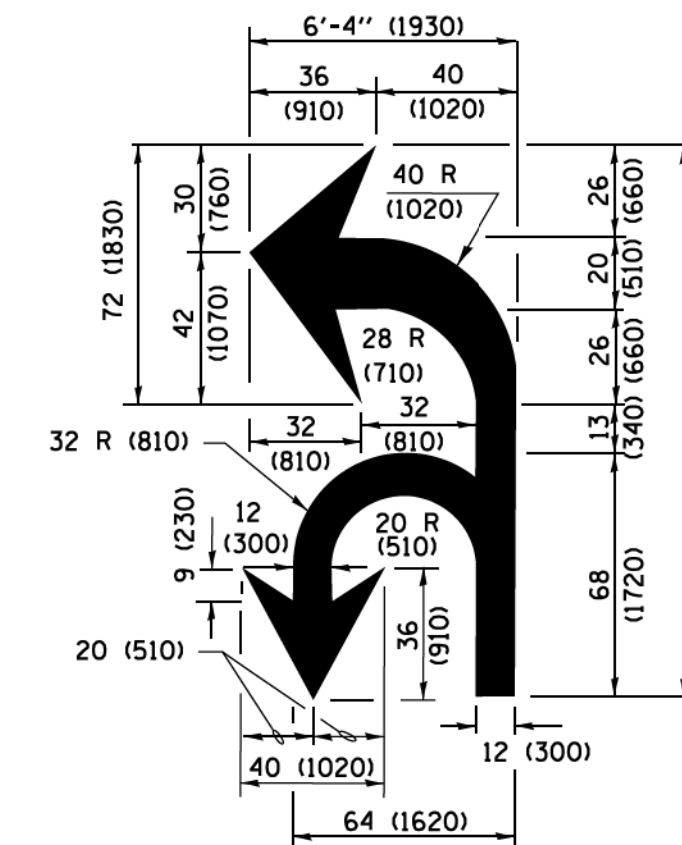


ISLAND OFFSET FROM PAVEMENT EDGE

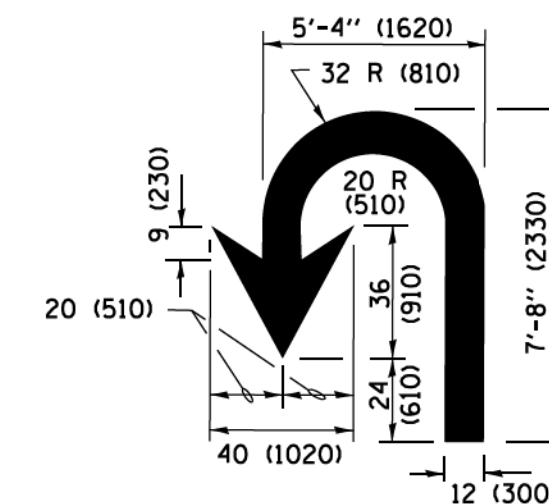


ISLAND AT PAVEMENT EDGE

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	5/2 (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) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE 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 "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"
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.

FILE NAME = W:\dststd\22x34\to13.dgn	USER NAME = l1y5a	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
		DRAWN -	REVISED - C. JUCIUS 07-01-13
		CHECKED -	REVISED - C. JUCIUS 12-21-15
		DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 526	SECTION 16-00115-02-BR	COUNTY KANE	TOTAL SHEETS 81	SHEET NO. 72
TC-13		CONTRACT NO. 61F45	ILLINOIS/FED. AID PROJECT HILS(183)	

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

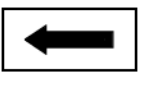
ARROWS SIGNS



M5-1L-2115



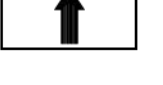
M5-1R-2115



M6-1-2115



M6-1-2115



M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS



M3-1-2412



M3-2-2412



M3-3-2412

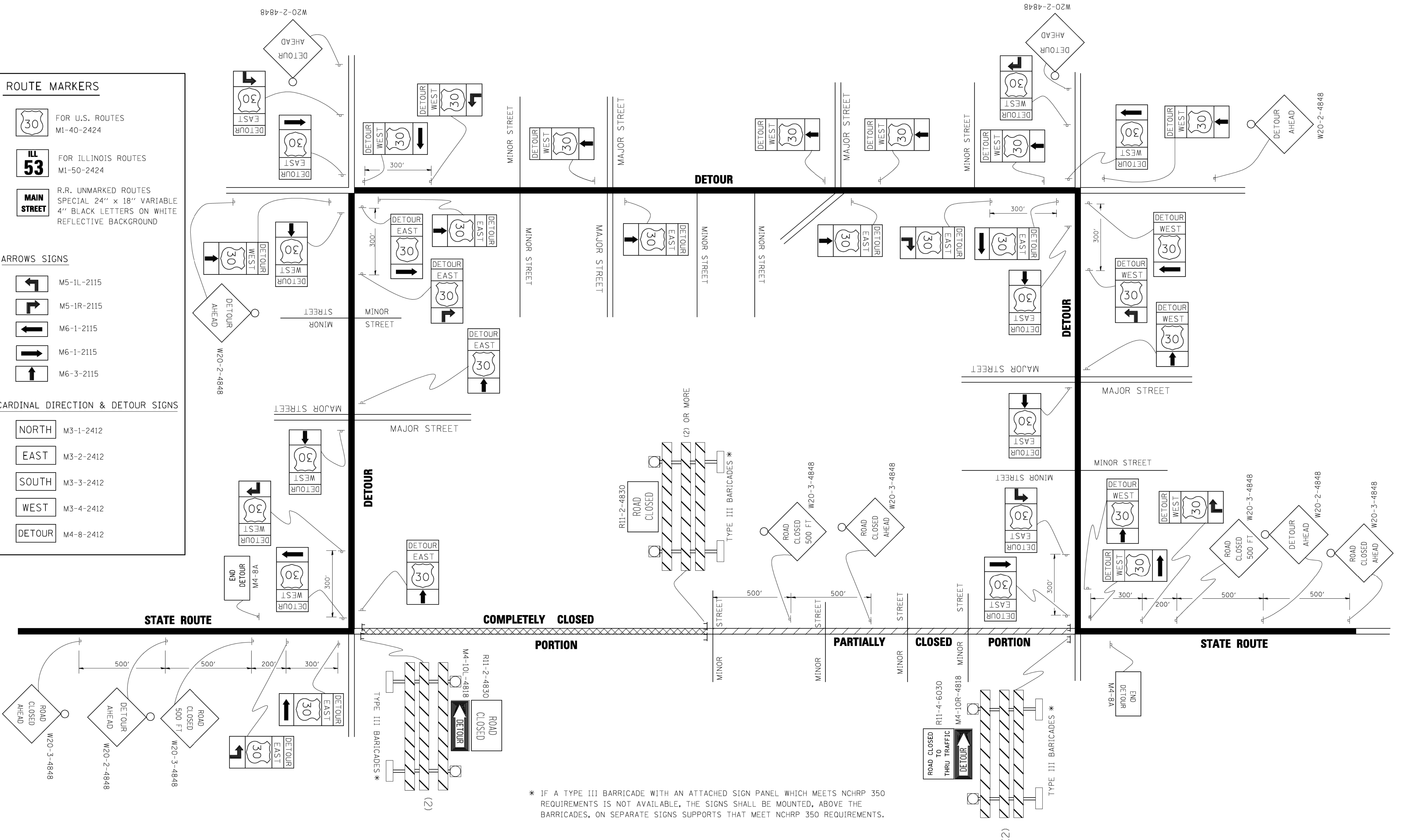


M3-4-2412



M4-8-2412

COPYRIGHT © 2017 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 13580615
 2/17/2018
 c:\pwwork\pwi\d01\DRIVAKOSGN\d0108315\1421.dgn
 ...\\server\user\Bw_Driver\d0108315\1421.dgn
 User: Bw_Driver
 Date: 2/17/2018 10:56:06 AM
 Plot: c:\pwwork\pwi\d01\DRIVAKOSGN\d0108315\1421.dgn



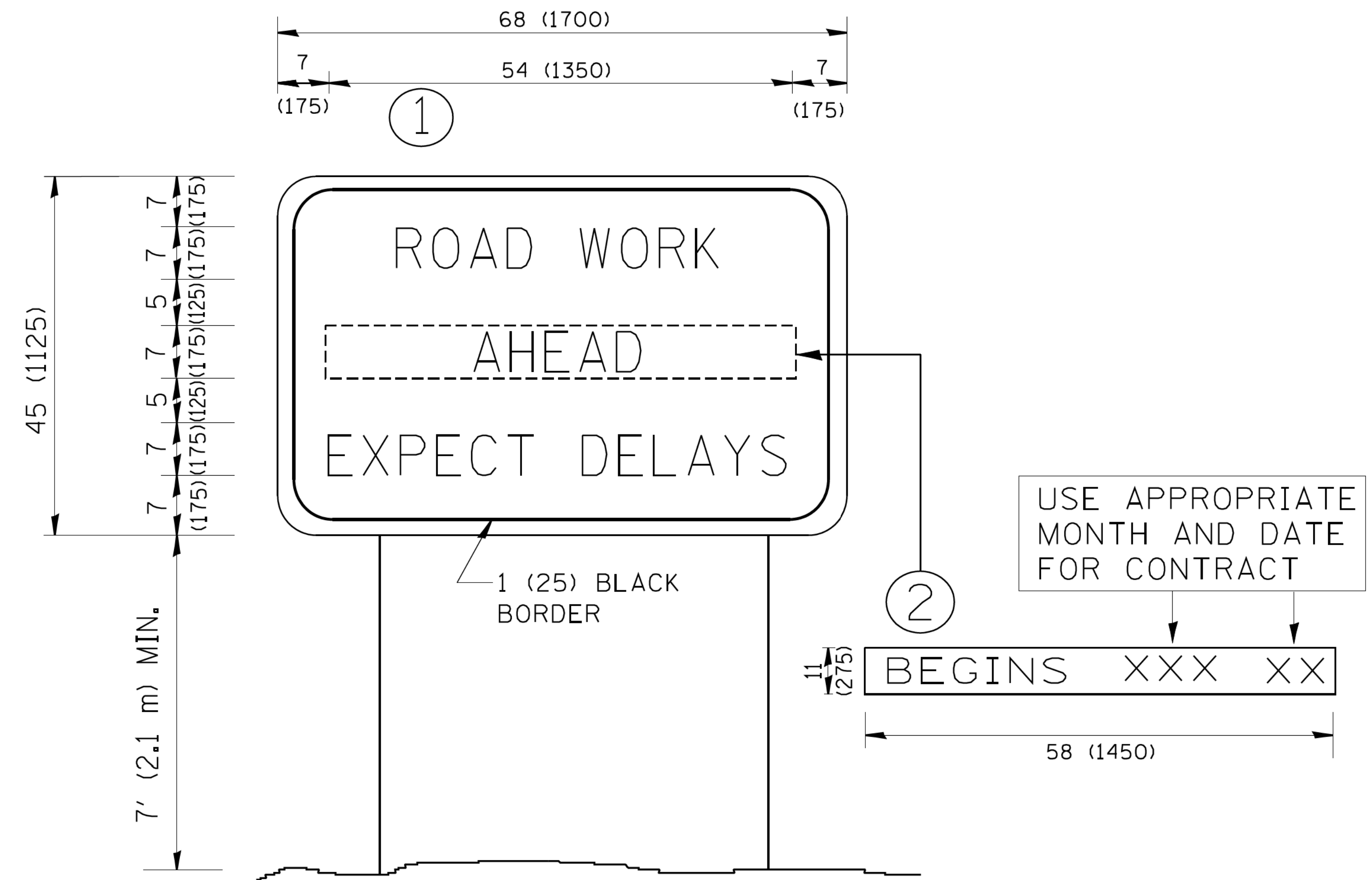
* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - 10-18-02
c:\pwwork\pwi\d01\DRIVAKOSGN\d0108315\1421.dgn		DRAWN -	REVISED - R. BORO 09-14-09
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	73
TC-21		CONTRACT NO. 61F45		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HILS(183)				



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

COPYRIGHT © 2017 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 W:\diststd\22x34\to22.dgn
 USER: geglano
 DATE: 1/4/2008
 PLOT SCALE: 50.000' / IN.
 FILE NAME: W:\diststd\22x34\to22.dgn

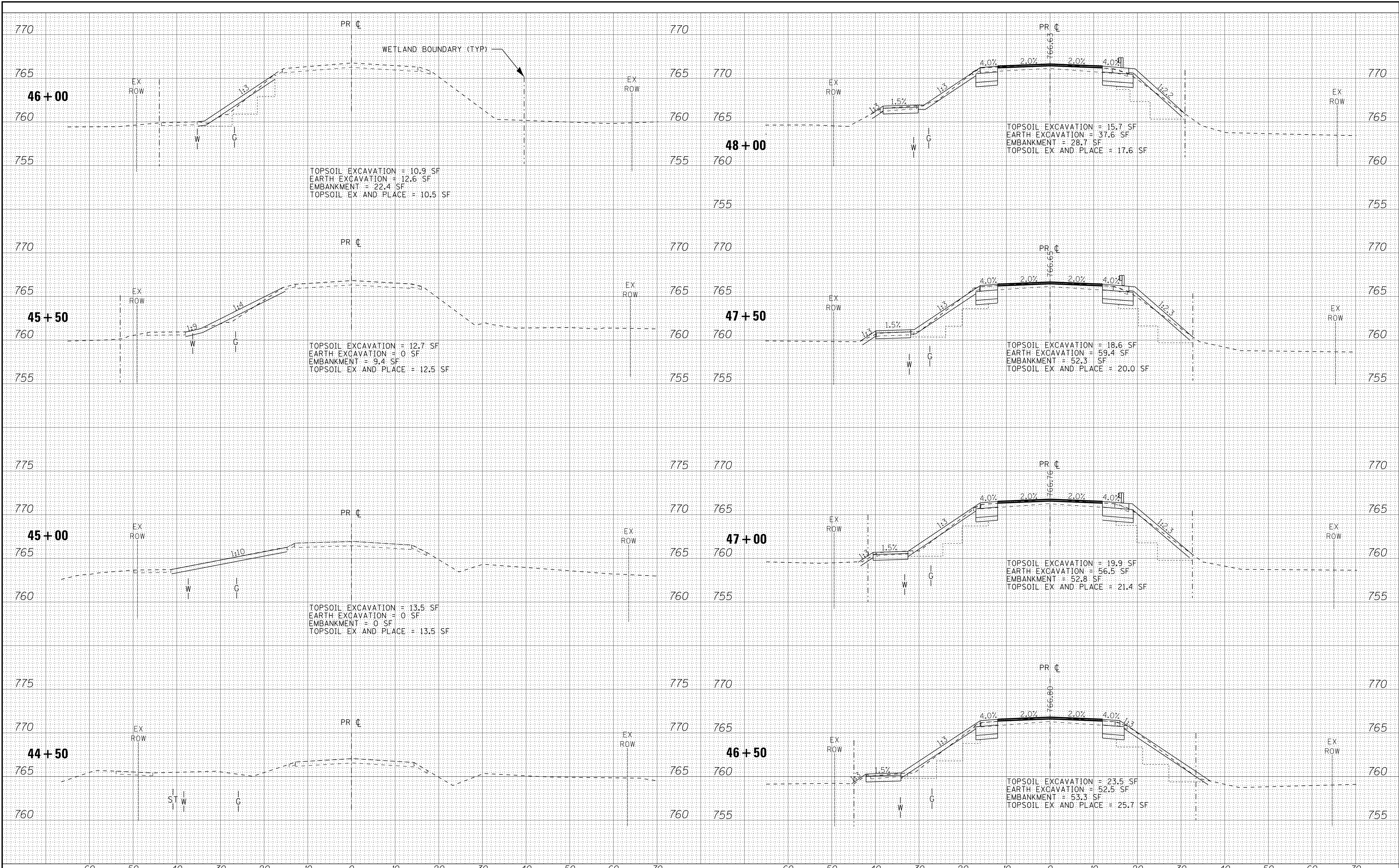
FILE NAME =	USER NAME = geglano	DESIGNED -	REVISED - R. MIRS 09-15-97
W:\diststd\22x34\to22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ARTERIAL ROAD INFORMATION SIGN	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	74
TC-22		CONTRACT NO. 61F45		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT HILS(183)				

COPYRIGHT © 2017 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS PROFESSIONAL ENGINEERING LICENSE NO. 184-000231 - EXPIRES 12/31/2019
 I:\CrystalLake\LANCH\16054-Silver Glen over Offer\CADD\Sheets\PH2\16054SHT_XS-SilverGlen.dgn 4:03:35 PM



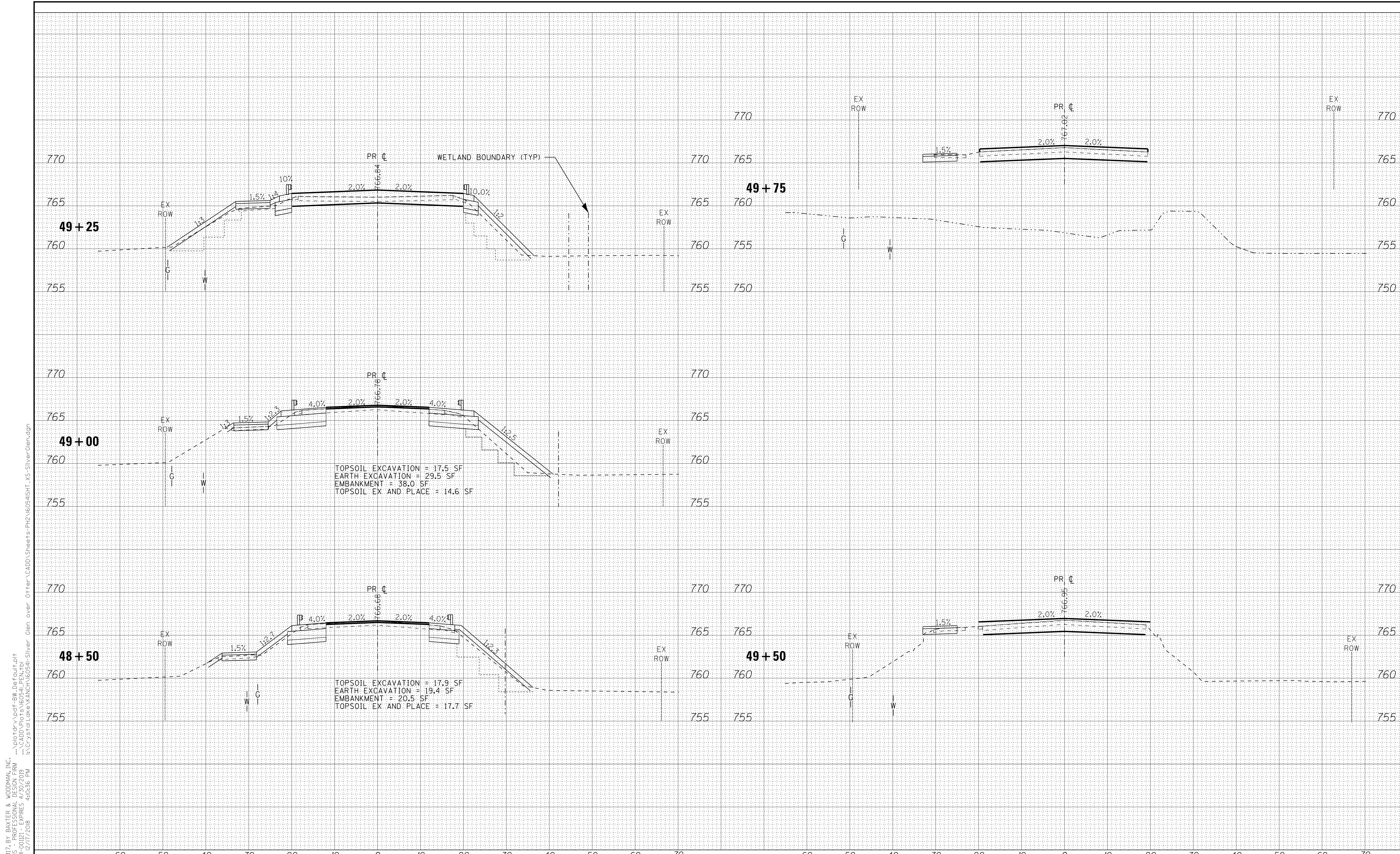
DESIGNED - JDM	REVISED -
DRAWN - KAR	REVISED -
CHECKED - DTH	REVISED -
DATE - 11-26-18	FILE - 160541SHT_XS-SilverGlen.dgn

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 SILVER GLEN RD**

SCALE: H: 1"=10' V: 1"=5' STA. 45+50 TO STA. 48+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	75
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT HILS(183)		
		CONTRACT NO. 61F45		



COPYRIGHT © 2017 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS PROFESSIONAL ENGINEERING
 LICENSE NO. 184-000231 - EXPIRES 4/30/2019
 I:\CrystalLake\16054\Silver Glen over Offer\CADD\Sheets\PH2\16054\SH2_XS-SilverGlen.dgn
 4:03:16 PM



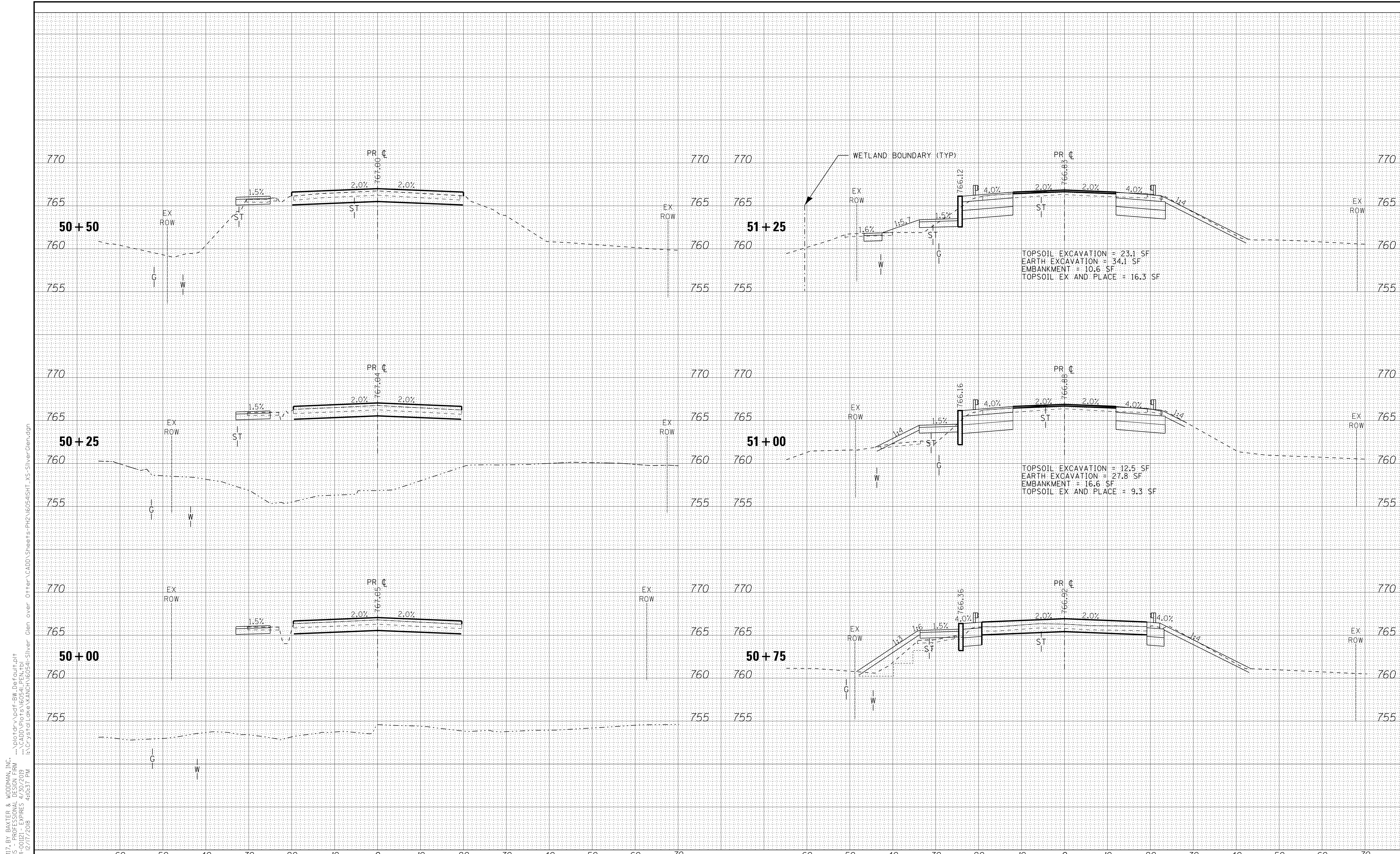
DESIGNED - JDM	REVISED -
DRAWN - KAR	REVISED -
CHECKED - DTH	REVISED -
DATE - 11-26-18	FILE - 16054\SH2_XS-SilverGlen.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
SILVER GLEN RD**

SCALE: H: 1"=10' V: 1"=5' STA. 48+50 TO STA. 49+75

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	76
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HILS(183)			CONTRACT NO. 61F45	



COPYRIGHT © 2017 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS PROFESSIONAL ENGINEERING
 LICENSE NO. 184-000231 - EXPIRES 4/30/2019
 I:\CrystalLake\LANCH\16054\Silver Glen over Offer\CADD\Sheets\PH2\16054\SH2_XS-SilverGlen.dgn
 4/10/17 PM 4:03:17 PM



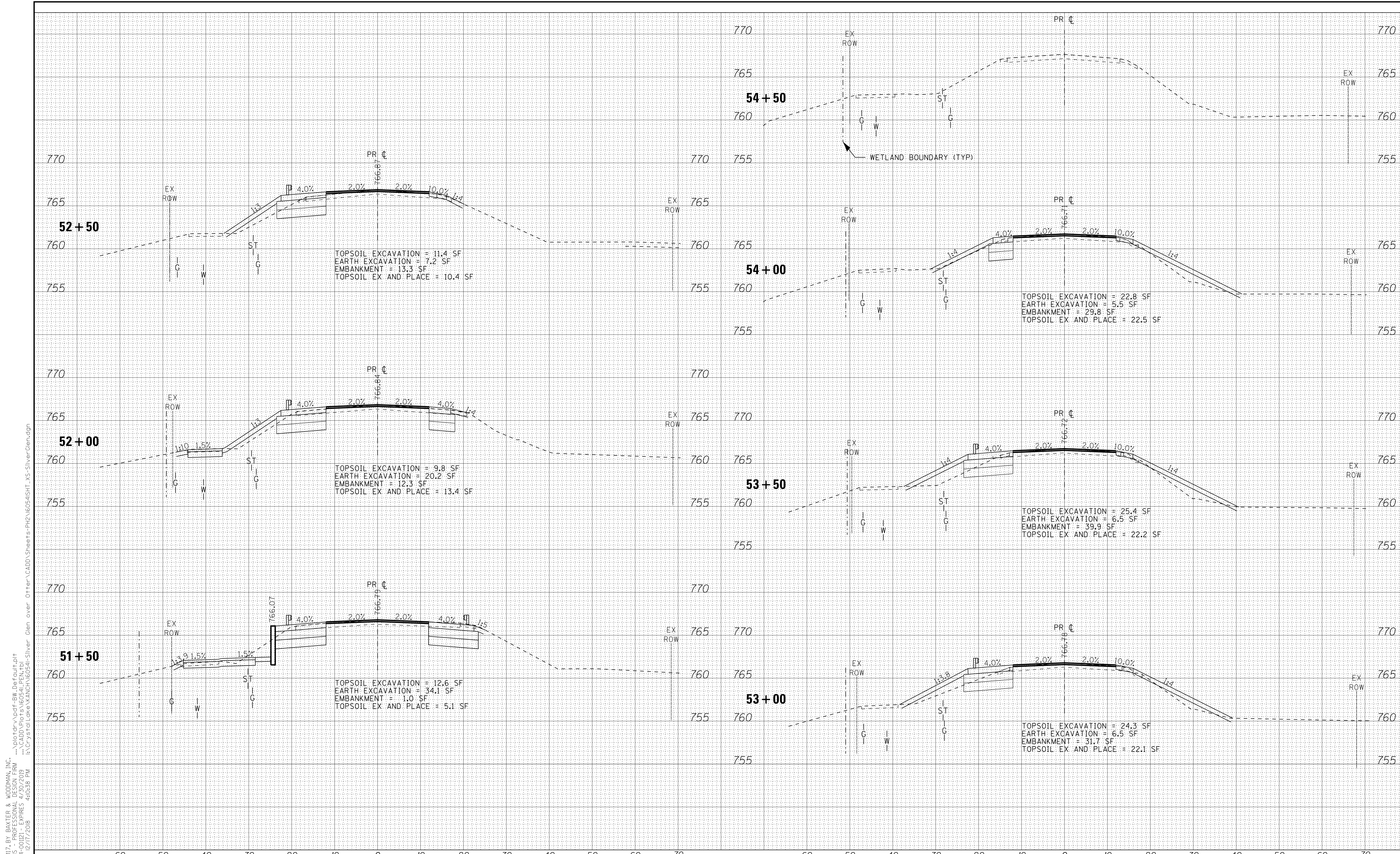
DESIGNED - JDM	REVISED -
DRAWN - KAR	REVISED -
CHECKED - DTH	REVISED -
DATE - 11-26-18	FILE - 160541SHT_XS-SilverGlen.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
SILVER GLEN RD**

SCALE: H: 1"=10' V: 1"=5' STA. 50+00 TO STA. 51+25

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	77
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HILS(183)			CONTRACT NO. 61F45	



COPYRIGHT © 2017 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS PROFESSIONAL ENGINEERING LICENSE NO. 184-000121 - EXPIRES 12/31/2019
 I:\CrystalLake\160541SHT_XS-SilverGlen.dgn
 4/10/18 PM



DESIGNED - JDM	REVISED -
DRAWN - KAR	REVISED -
CHECKED - DTH	REVISED -
DATE - 11-26-18	FILE - 160541SHT_XS-SilverGlen.dgn

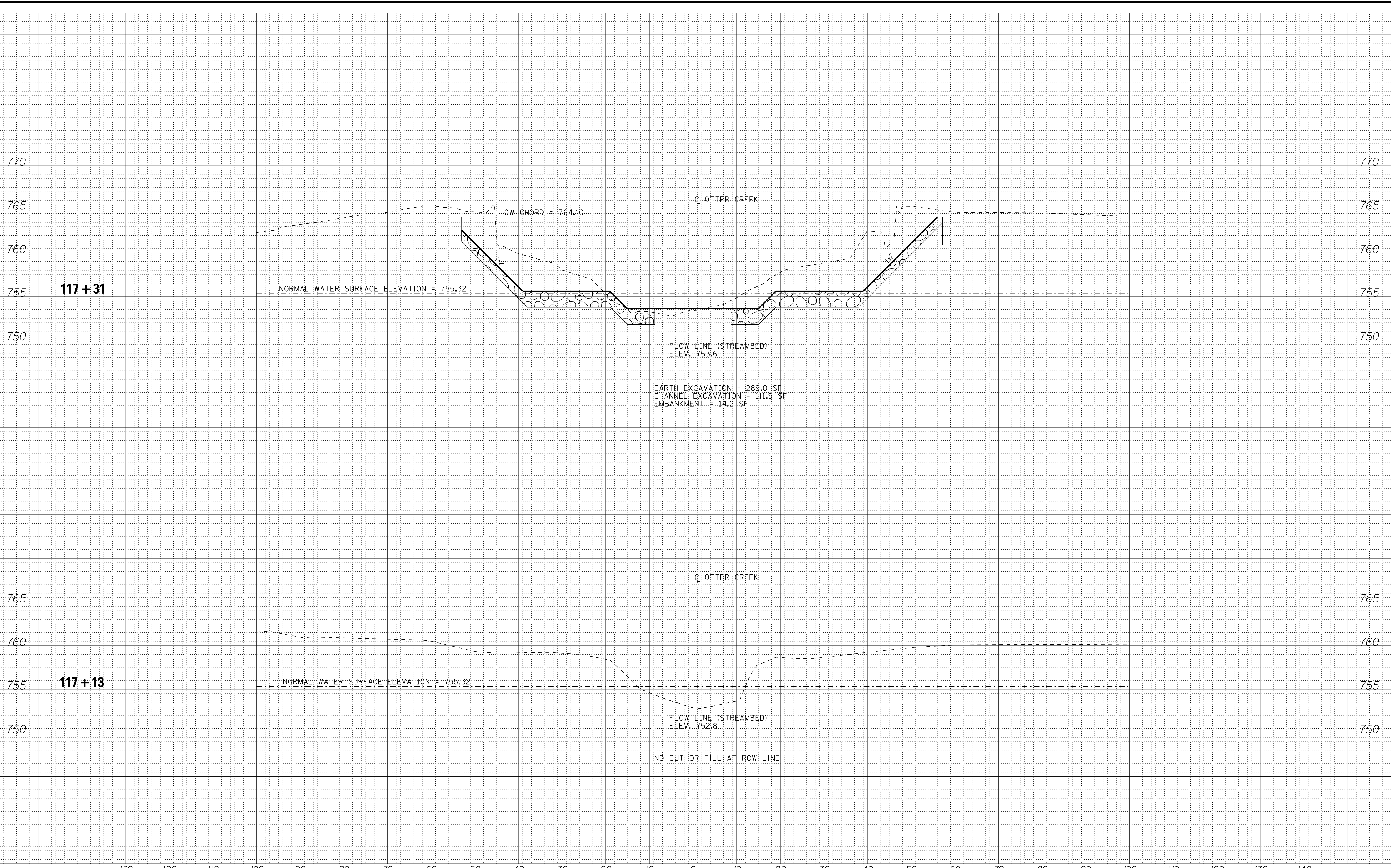
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
SILVER GLEN RD**

SCALE: H: 1"=10' V: 1"=5' STA. 51+50 TO STA. 53+55

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	78
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HILS(183)			CONTRACT NO. 61F45	

COPYRIGHT © 2017 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS PROFESSIONAL ENGINEERING
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 I:\CrystalLake\A\A\CH\16054-Silver.dgn over Otter\CADD\Sheets\PH2\16054\SH1_XS-Otter-Creek.dgn
 4/10/18 4:40 PM



DESIGNED - JDM	REVISED -
DRAWN - KAR	REVISED -
CHECKED - DTH	REVISED -
DATE - 11-26-18	FILE - 16054\SH1_XS-OtterCreek.dgn

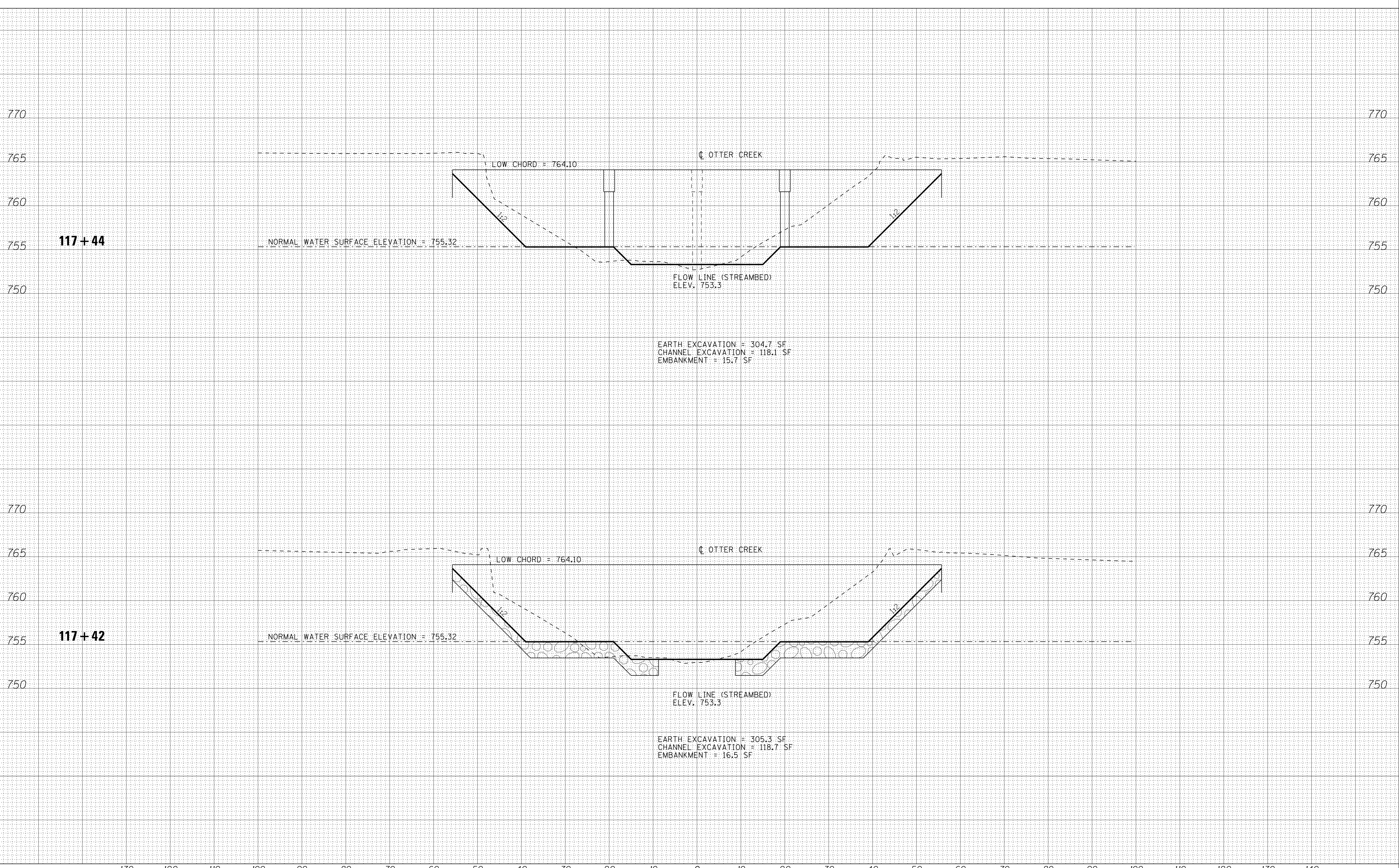
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 OTTER CREEK

SCALE: H: 1"=10' V: 1"=5' STA. 117+13 TO STA. 117+31

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	79
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HILS(183)			CONTRACT NO. 61F45	

COPYRIGHT © 2017 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS PROFESSIONAL ENGINEERING LICENSE NO. 184-00121 - EXPIRES 12/31/2019
 160541SHT_XS-01terCreek.dgn
 4:04:41 PM



EARTH EXCAVATION = 304.7 SF
 CHANNEL EXCAVATION = 118.1 SF
 EMBANKMENT = 15.7 SF

EARTH EXCAVATION = 305.3 SF
 CHANNEL EXCAVATION = 118.7 SF
 EMBANKMENT = 16.5 SF



DESIGNED - JDM	REVISED -
DRAWN - KAR	REVISED -
CHECKED - DTH	REVISED -
DATE - 11-26-18	FILE - 160541SHT_XS-01terCreek.dgn

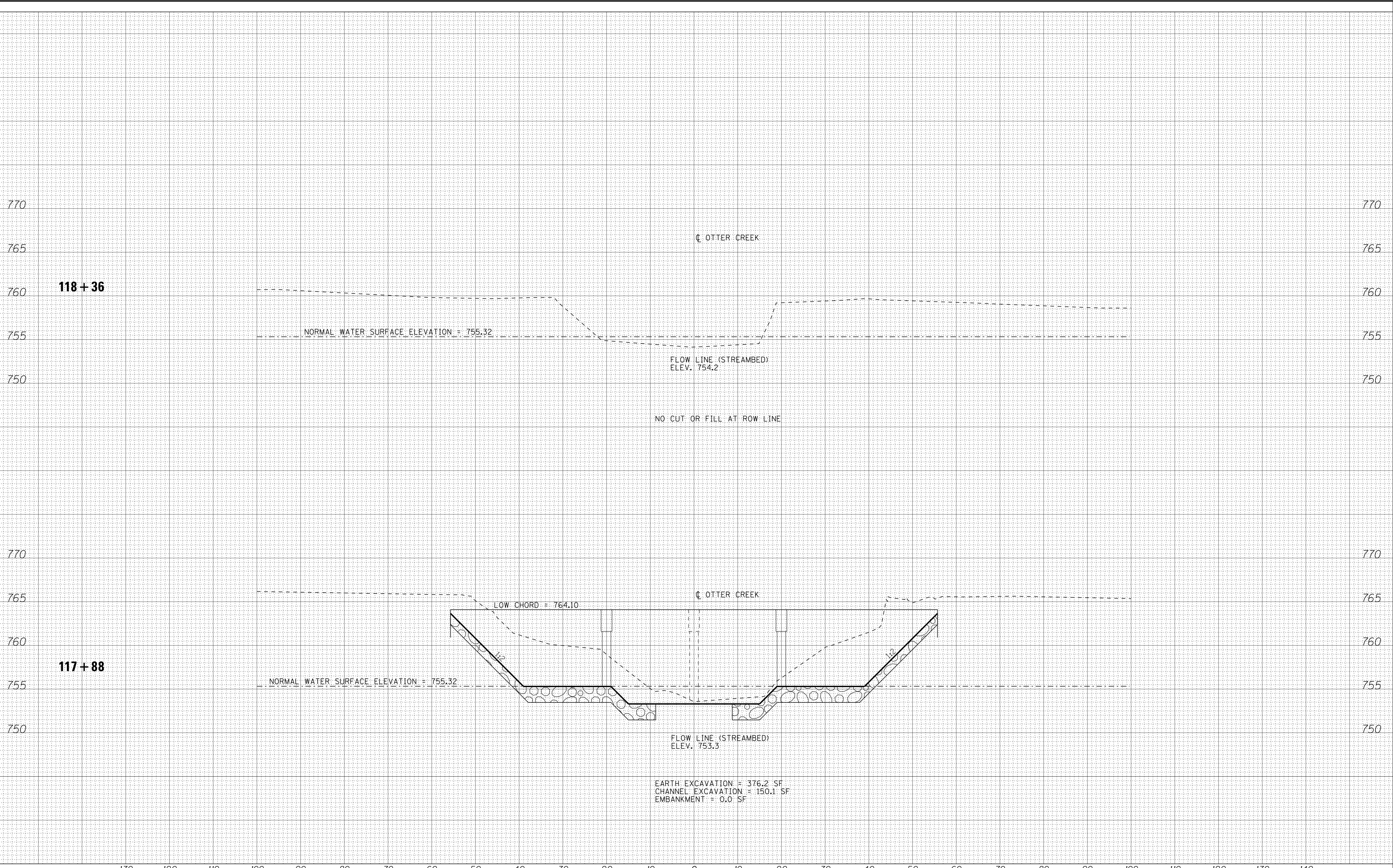
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
OTTER CREEK

SCALE: H: 1"=10' V: 1"=5' STA. 117+42 TO STA. 117+44

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	80
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HILS(183)			CONTRACT NO. 61F45	

COPYRIGHT © 2017 BY BAXTER & WOODMAN, INC.
 STATE OF ILLINOIS PROFESSIONAL ENGINEERING
 LICENSE NO. 184-00121 - EXPIRES 4/30/2019
 I:\CrystalLake\A\ANCH\6054-Silver.dgn over Otter\CADD\Sheets\PH2\16054\SH1_XS-Otter-Creek.dgn 4:04:42 PM



DESIGNED - JDM	REVISED -
DRAWN - KAR	REVISED -
CHECKED - DTH	REVISED -
DATE - 11-26-18	FILE - 16054\SH1_XS-OtterCreek.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
OTTER CREEK

SCALE: H: 1"=10' V: 1"=5'

STA. 117+88 TO STA. 118+36

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
526	16-00115-02-BR	KANE	81	81
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT HILS(183)			CONTRACT NO. 61F45	