04-27-2018 LETTING ITEM 087

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	1
	ILLINOIS	CONTRACT NO. 68895		

INDEX OF SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 643 (IL 17)
SECTION 14–BR–3
FEDERAL PROJECT NO. STP–0BZY(928)
BRIDGE REPLACEMENT
STARK COUNTY
C–94–087–09

IL ROUTE 17 OVER INDIAN CREEK
REPLACEMENT OF EXISTING BRIDGE

D–94–061–89

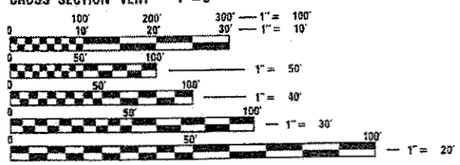
LOCATION OF SECTION INDICATED THUS: –

DESIGN DESIGNATION

MINOR ARTERIAL (RURAL) (088–0032)
CURRENT ADT: 1,650 (2013)
DESIGN ADT: 2,000 (2033)
DESIGN SPEED: 55 MPH
POSTED SPEED: 55 MPH
MU = 5.0%, SU = 5.0%

SCALE IN FEET

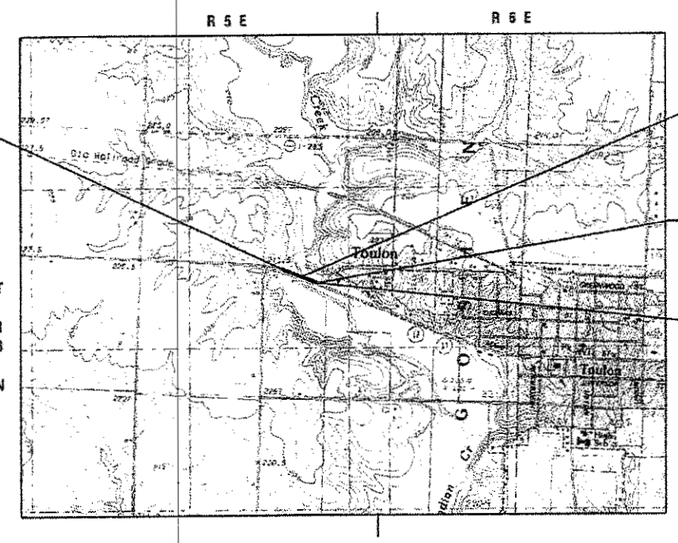
PLAN	1" = 50'
PROFILE HORIZ	1" = 50'
PROFILE VERT	1" = 5'
CROSS SECTION HORIZ	1" = 10'
CROSS SECTION VERT	1" = 5'



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

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

BEGIN SECTION
STA. 124 + 55



STA. 128 + 55.74 TO
STA. 129 + 74.26
BRIDGE REPLACEMENT

PROJECT INCLUDES SINGLE SPAN STRUCTURE, CONSISTING OF A REINFORCED CONCRETE DECK ON PPC I–BEAMS FOUNDED ON OPEN ABUTMENTS
EXIST. S. N. 088–0001 PROP. S. N. 088–0032

END SECTION
STA. 134 + 15

N

LAYOUT
0 MI 0.5 MI 1 MI 1.5 MI 2 MI

GROSS LENGTH = 960 FT. = 0.18 MILE
NET LENGTH = 730 FT. = 0.14 MILE

JEFFREY R. RENSING
062-055812
LICENSED PROFESSIONAL ENGINEER
OF
ILLINOIS

1/26/18
JEFFREY R. RENSING, P.E. Date
IL P.E. NO. 062-055812
EXPIRES: 11/30/2019

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED February 1 20 18
Brenda Tamer
REGIONAL ENGINEER
Mar 23 20 18
ENGINEER OF DESIGN AND ENVIRONMENT
Mar 23 20 18
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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PROJECT ENGINEER CHRISTOPHER MAUSHARD 309–671–3453
PROJECT MANAGER MICHAEL HUDELSON 309–671–3466

CONTRACT NO. 68895
CATALOG NO. 034244–00D

GENERAL NOTES

1. AVAILABILITY OF ELECTRONIC FILES

MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.

THE GEOTECHNICAL REPORT FOR THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST.

2. UTILITIES - LOCATIONS / INFORMATION ON PLANS

THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED. UNLESS ELEVATIONS ARE SHOWN - ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.

3. TREE REMOVAL - UTILITY RELOCATION

TREE REMOVAL MAY BE NECESSARY PRIOR TO UTILITY COMPANIES BEING ABLE TO RELOCATE THEIR FACILITIES OUTSIDE THE CONSTRUCTION LIMITS. THE CONTRACTOR SHOULD COORDINATE ANY CONTRACT TREE REMOVAL ACTIVITIES WITH THE UTILITY COMPANIES TO ELIMINATE CONFLICTS AND POTENTIAL DELAYS CAUSED BY UTILITY TREE REMOVAL ACTIVITIES OR INCOMPLETE UTILITY RELOCATIONS.

4. PLAN ELEVATIONS - U. S. G. S. MEAN SEA LEVEL DATUM

ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM U. S. G. S. MEAN SEA LEVEL DATUM.

5. PROPERTY OWNER ACCESS REQUIREMENTS

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

6. TEMPORARY MATERIAL REQUIREMENTS - UTILITY AND DRIVEWAY CROSSINGS

AGGREGATE SURFACE COURSE MAY BE USED FOR ALL DRIVEWAY CROSSINGS IN ACCORDANCE WITH ARTICLE 107.09.

7. CONSTRUCTION LIMITS

THE CONTRACTOR SHALL CONFINE ALL OPERATIONS TO THE CONSTRUCTION LIMITS LINE SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTORS EXPENSE UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE RESIDENT ENGINEER.

8. TREE REMOVAL

THE RESIDENT ENGINEER SHOULD BE CONTACTED AND PRIOR APPROVAL OBTAINED FOR ANY TREE REMOVAL BEYOND THE LIMITS/LOCATIONS INCLUDED IN THE PLANS.

9. CROSSING EXISTING STRUCTURES WITH EQUIPMENT

THE FOLLOWING STRUCTURES S.N. 088-0001 MAY BE CROSSED WITH LOADED MTD. ANY STRUCTURES NOT LISTED ABOVE WILL BE VERIFIED BY THE RESIDENT PRIOR TO BEGINNING WORK.

10. ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (ENVIRONMENTAL SURVEY REQUEST)
- BDE FORM 2290 (WASTE/USE AREA REVIEW)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM-D4 P10101

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SIT ENVIRONMENTAL CLEARANCES.

11. SEEDING - SIDE SLOPE RIPPING

ALL SLOPES STEEPER THAN 3 TO 1 AND OVER 15 FT (4.5 M) IN HEIGHT SHALL BE RIPPED. THIS SHALL CONSIST OF RIPPING BETWEEN 18 INCHES TO 24 INCHES (450 MM TO 600 MM) DEEP NORMAL TO THE SLOPE. THE INTERVAL OF RIPPING ALONG THE SLOPE SHALL BE 12 FT. (3.6 M). THIS WORK SHALL BE DONE AFTER THE SEED BED HAS BEEN PREPARED BUT BEFORE ANY FERTILIZER OR SEED HAS BEEN APPLIED. THE FERTILIZER AND SEED SHALL BE APPLIED WITHIN A 24-HOUR PERIOD AFTER THE RIPPING HAS BEEN DONE. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE VARIOUS ITEMS OF SEEDING INVOLVED.

12. PAVEMENT STATIONING NUMBERS & PLACEMENT

THE CONTRACTOR SHALL PROVIDE LABOR AND MATERIALS REQUIRED TO IMPRINT PAVEMENT STATION NUMBERS IN THE FINISHED SURFACE OF THE PAVEMENT AND/OR OVERLAY. THE NUMBERS SHALL BE APPROXIMATELY 3/4 INCH (20MM) WIDE, 5 INCHES (125 MM) HIGH AND 5/8 INCH (15 MM) DEEP.

THE PAVEMENT STATION NUMBERS SHALL BE INSTALLED AS SPECIFIED HEREIN:

INTERVAL - 200 FEET (ENGLISH STATIONING) OR 100 METERS (METRIC STATIONING)

BOTTOM OF NUMBERS - 6 INCHES (150 MM) FROM THE INSIDE EDGE OF THE PAVEMENT MARKING

LOCATION:

- 2,3, & 5 LANE PAVEMENTS - RIGHT EDGE OF PAVEMENT IN DIRECTION OF INCREASING STATIONS
- MULTI-LANE DIVIDED ROADWAYS - OUTSIDE EDGE OF PAVEMENT IN BOTH DIRECTIONS
- RAMPS - ALONG BASELINE EDGE OF PAVEMENT

POSITION - STATIONS SHALL BE PLACED SO THEY CAN BE READ FROM THE ADJACENT SHOULDER

FORMAT - ENGLISH (METRIC) PAVEMENT STATIONS SHALL USE THIS FORMAT "XXX (XX+XOO)" WHERE X REPRESENTS THE PAVEMENT STATION

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED PAVEMENT AND/OR OVERLAY PAY ITEMS.

FILE NAME = M:\218481\WO 13 - Indian Creek\Microstation\Sheets\D4218848_813-sht-gennotes.dgn

OATES ASSOCIATES ILLINOIS DESIGN FIRM LICENSE NO: 184.001115	USER NAME = stephanie.lee	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/26/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, STANDARDS, AND COMMITMENTS
IL 17 OVER INDIAN CREEK

SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	2
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

13. HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURES TABLE

MIXTURE USE(S)	SURFACE COURSE	LEVELING BINDER	HMA SHOULDER (SURFACE LIFT)	HMA SHOULDER (LOWER LIFT)	HMA BASE COURSE
AC/PG	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N=50	4.0% @ N=50	4.0% @ N=30	4.0% @ N=30	4.0% @ N=50
MIXTURE COMPOSITION	IL 9.5	IL 19.0	IL 9.5L	IL 19.0L	IL 19.0
FRICTION AGGREGATE	MIXTURE D (DOLOMITE ONLY)	N.A.	MIXTURE C	N.A.	N.A.
QUALITY MANAGEMENT PROGRAM	QCQA	QCQA	QCQA	QCQA	QCQA

NOTES: 1. INDIVIDUAL MINIMUM LIFT THICKNESS SHALL BE AS PER ART. 406.06 (d) AND MAXIMUM LIFT THICKNESS SHALL BE NO MORE THAN 6 TIMES NOMINAL MAXIMUM AGGREGATE

14. BUTT JOINT CUTTING TIME RESTRICTION

BUTT JOINTS SHALL NOT BE MILLED MORE THAN THREE (3) DAYS PRIOR TO PLACEMENT OF HMA SURFACE COURSE

15. PAVING SURFACE COURSE

CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED. ALL SURFACE COURSE PLACEMENT SHOULD BE DONE AFTER STAGE 2 AND AFTER ALL BARRIER WALLS HAVE BEEN REMOVED.

16. SAW CUT - 18" (450 MM) SHOULDER REMOVAL - IN-PLACE WHEEL SAW GRINDING PERMITTED

A FULL-DEPTH SAW CUT SHALL BE REQUIRED AT THE JOINT BETWEEN THE PAVEMENT THAT IS TO BE LEFT IN PLACE AND THE EXISTING SHOULDER THAT IS TO BE REMOVED. THE CONTRACTOR MAY HAVE THE OPTION OF USING A WHEEL SAW TO GRIND UP THE EXISTING SHOULDER AND LEAVE THE FINELY GROUND PIECES ON SITE UNDER THE NEW SHOULDER AND ON THE FORE SLOPE, WITH THE APPROVAL OF THE ENGINEER. MAXIMUM SIZE OF PIECES SHALL BE NO MORE THAN 3" (75 MM). LARGER PIECES SHALL BE PICKED UP/REMOVED FROM THE JOB SITE. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR VARIATIONS IN ASSUMED THICKNESS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEMS.

17. ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS

THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTH OF THE BOX/PIPE CULVERTS, STORM SEWERS, AND/OR PIPE DRAINS REQUIRED PRIOR TO ORDERING THESE ITEMS.

18. SIGNING

SIGN LOCATIONS MAY VARY FROM THE STATIONS SHOWN ON THE PLANS IN ACCORDANCE WITH DIRECTIONS FROM THE ENGINEER AT THE TIME OF CONSTRUCTION. SIGN LOCATIONS MAY BE ADJUSTED IN THE FIELD TO AVOID ANY FOUND UTILITIES.

ALL WOOD POST LOCATIONS SHALL BE VERIFIED WITH THE BUREAU OF OPERATIONS, TRAFFIC SECTION, BEFORE INSTALLATION.

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-12	PAVEMENT CONNECTOR (PCC) 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
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-08	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
701201-04	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
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701316-12	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS > 45 MPH
701321-17	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-07	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

DISTRICT 4 STANDARDS

205001-D4	SLOPE STEPS DETAIL
406101-D4	BUTT JOINTS
406401-D4	RURAL SIDEROADS FOR "3R" PROJECTS
440001-D4	HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
630101-D4	GUARDRAIL EROSION CONTROL TREATMENTS
667101-D4	PERMANENT SURVEY TIE & PERMANENT SURVEY MARKERS TY. I - TY. II
780001-D4	TYPICAL PAVEMENT MARKINGS

COMMITMENTS

NO COMMITMENTS HAVE BEEN MADE FOR THIS PROJECT.

FILE NAME = M:\25845\WO 13 - Indian Creek\Microstation\Sheets\D425845_013-ahr-gennotes.dgn

DATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME = stephanie.lee	DESIGNED -	REVISED -
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PLOT DATE = 1/26/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, STANDARDS, AND COMMITMENTS
IL 17 OVER INDIAN CREEK

SCALE: | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	3
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

NO UTILITY ADJUSTMENTS

WITHIN PROJECT LIMITS

FILE NAME = M:\29848\VD 13 - Indian Creek\Microstation\Sheets\D429848813-sht-utilities.dgn

DATES ASSOCIATES ILLINOIS DESIGN FIRM LICENSE NO: 184.001115	USER NAME = stephanie.lee	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STATUS OF UTILITIES IL 17 OVER INDIAN CREEK	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			643	14-BR-3	STARK	77	4
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 68895		
	PLOT DATE = 1/30/2018	DATE -	REVISED -				ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0005 ROADWAY 80%-20% FED-ST	CONSTRUCTION CODE 0010 STRUCTURAL 80%-20% FED-ST	CONSTRUCTION CODE 0005 ROADWAY 100% STATE
20100500	TREE REMOVAL, ACRES	ACRE	0.30	0.30		
20200100	EARTH EXCAVATION	CU YD	520	520		
20400800	FURNISHED EXCAVATION	CU YD	95	95		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4,095	4,095		
25000210	SEEDING, CLASS 2A	ACRE	1.00	1.00		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	90	90		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	90	90		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90	90		
25000750	MOWING	ACRE	1.25			1.25
25100115	MULCH, METHOD 2	ACRE	1.00	1.00		
25100630	EROSION CONTROL BLANKET	SQ YD	3,574	3,574		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	200	200		
28000305	TEMPORARY DITCH CHECKS	FOOT	27	27		
28000400	PERIMETER EROSION BARRIER	FOOT	1,644	1,644		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0005 ROADWAY 80%-20% FED-ST	CONSTRUCTION CODE 0010 STRUCTURAL 80%-20% FED-ST	CONSTRUCTION CODE 0005 ROADWAY 100% STATE
28100809	STONE DUMPED RIPRAP, CLASS A5	TON	2,035		2,035	
28200200	FILTER FABRIC	SQ YD	2,082		2,082	
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	1,184	1,184		
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	821	821		
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	1,942	1,942		
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	23	23		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	508	508		
40600990	TEMPORARY RAMP	SQ YD	46	46		
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	218	218		
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	14	14		
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	226	226		
44000100	PAVEMENT REMOVAL	SQ YD	221	221		
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	52	52		
48203100	HOT-MIX ASPHALT SHOULDERS	TON	191	191		

FILE NAME = M:\2984B\WD 13 - Indian Creek\Microstation\Sheets\D42984B_Bl3-sht-SOD.dgn

OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/31/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 17 OVER INDIAN CREEK

SCALE: | SHEET 2 OF 7 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	6
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0005 ROADWAY 80%-20% FED-ST	CONSTRUCTION CODE 0010 STRUCTURAL 80%-20% FED-ST	CONSTRUCTION CODE 0005 ROADWAY 100% STATE
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1	
50200100	STRUCTURE EXCAVATION	CU YD	229		229	
50300100	FLOOR DRAINS	EACH	14		14	
50300225	CONCRETE STRUCTURES	CU YD	109.1		109.1	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	223.7		223.7	
50300260	BRIDGE DECK GROOVING	SQ YD	669		669	
50300300	PROTECTIVE COAT	SQ YD	835		835	
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	107.6		107.6	
50401345	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BEAMS, IL63N	FOOT	691.5		691.5	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	92,040		92,040	
50800515	BAR SPLICERS	EACH	658		658	
51201900	FURNISHING STEEL PILES HP14X89	FOOT	390		390	
51202305	DRIVING PILES	FOOT	390		390	
51203900	TEST PILE STEEL HP14X89	EACH	2		2	

FILE NAME = M:\29848\WO 13 - Indian Creek\Microstation\Sheets\D429848_013-sht-SQU.dgn

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 17 OVER INDIAN CREEK

SCALE: | SHEET 3 OF 7 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	7
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0005 ROADWAY 80%-20% FED-ST	CONSTRUCTION CODE 0010 STRUCTURAL 80%-20% FED-ST	CONSTRUCTION CODE 0005 ROADWAY 100% STATE
	51204650	PILE SHOES	EACH	12		12	
	51500100	NAME PLATES	EACH	1		1	
	52200010	TEMPORARY SHEET PILING	SQ FT	733		733	
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	129		129	
*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	450.0	450.0		
*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4		
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4		
	63200310	GUARDRAIL REMOVAL	FOOT	666	666		
	64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	1,397	1397		
*	66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	3	3		
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10	10		
	67000600	ENGINEER'S FIELD LABORATORY	CAL MO	10	10		
	67100100	MOBILIZATION	LSUM	1	1		
	70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1		

14

*SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 17 OVER INDIAN CREEK

SCALE: | SHEET 4 OF 7 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	8
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0005 ROADWAY 80%-20% FED-ST	CONSTRUCTION CODE 0010 STRUCTURAL 80%-20% FED-ST	CONSTRUCTION CODE 0005 ROADWAY 100% STATE
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1	1		
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1		
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1		
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2,160	2,160		
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	8,768	8,768		
70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	24	24		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	550.0	550.0		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	500.0	500.0		
70500100	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	100	100		
70500665	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2	2		
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2		
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE,NARROW), TEST LEVEL 3	EACH	2	2		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 17 OVER INDIAN CREEK

SCALE: | SHEET 5 OF 7 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	9
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0005 ROADWAY 80%-20% FED-ST	CONSTRUCTION CODE 0010 STRUCTURAL 80%-20% FED-ST	CONSTRUCTION CODE 0005 ROADWAY 100% STATE
*	72501000	TERMINAL MARKER - DIRECT. APPLIED	EACH	4	4		
*	78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	2,160	2,160		
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	10	10		
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	18	18		
*	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	8	8		
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	10	10		
	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	342	342		
	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	2,591	2,591		
	X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	269		269	
	X7015005	CHANGEABLE MESSAGE SIGN	CAL DAY	14	14		
	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	3,690	3,690		
	X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	204	204		
	X7050167	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	EACH	2	2		
	Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	140	140		

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 17 OVER INDIAN CREEK

SCALE: | SHEET 6 OF 7 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	10
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 0005 ROADWAY 80%-20% FED-ST	CONSTRUCTION CODE 0010 STRUCTURAL 80%-20% FED-ST	CONSTRUCTION CODE 0005 ROADWAY 100% STATE
Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1		
Z0034105	MATERIAL TRANSFER DEVICE	TON	218	218		
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	181		181	
Z0076600	TRAINEES	HOUR	1,000	1,000		
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1,000	1,000		

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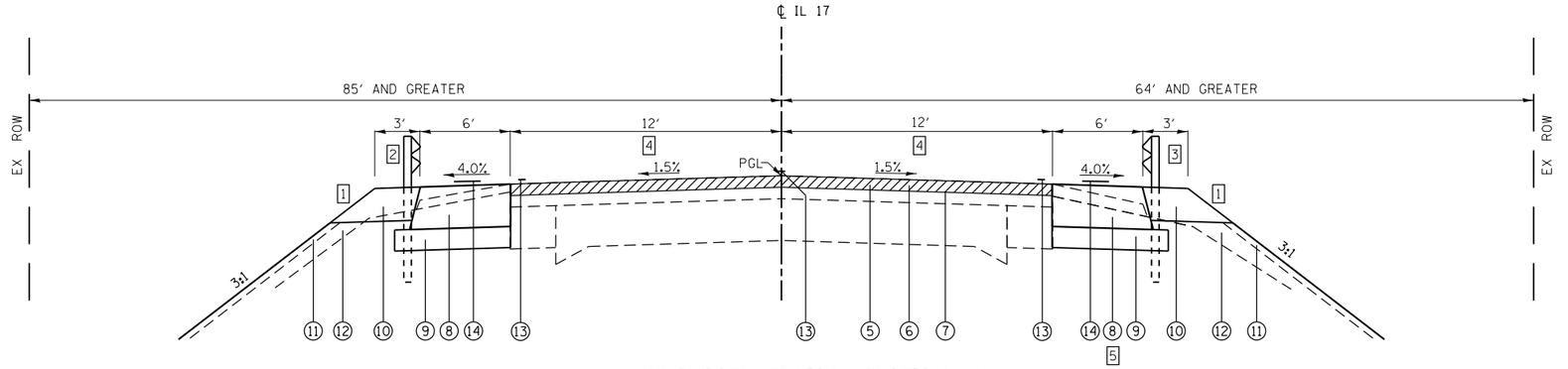
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 17 OVER INDIAN CREEK

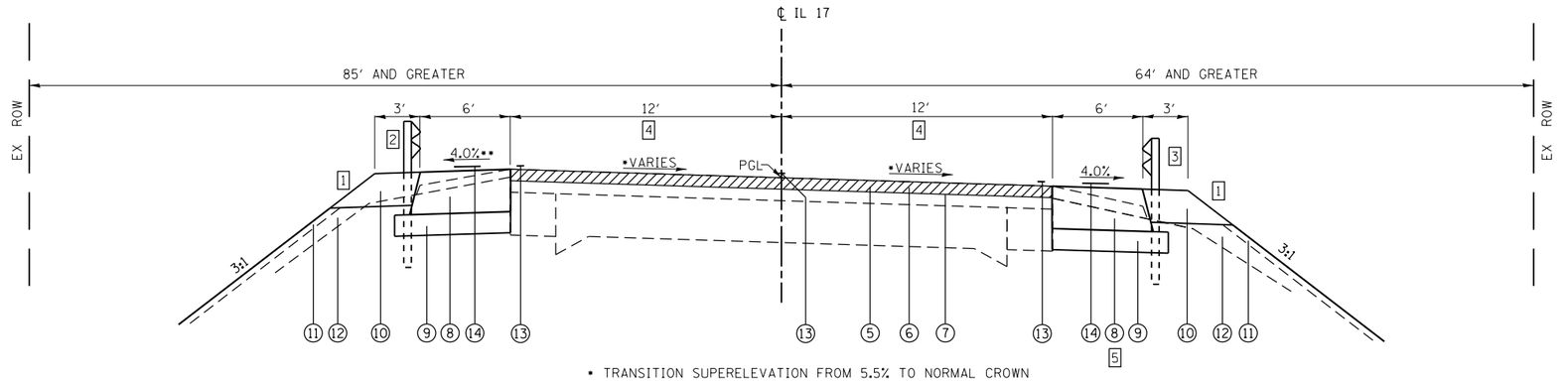
SCALE: | SHEET 7 OF 7 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	11
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			



PROPOSED TYPICAL SECTION #2

STA. 128+00.00 TO STA. 134+15.00
BRIDGE OMISSION: STA. 128+00.00 TO STA. 130+30.00
(INCLUDING APPROACH SLABS AND PAVEMENT CONNECTOR)

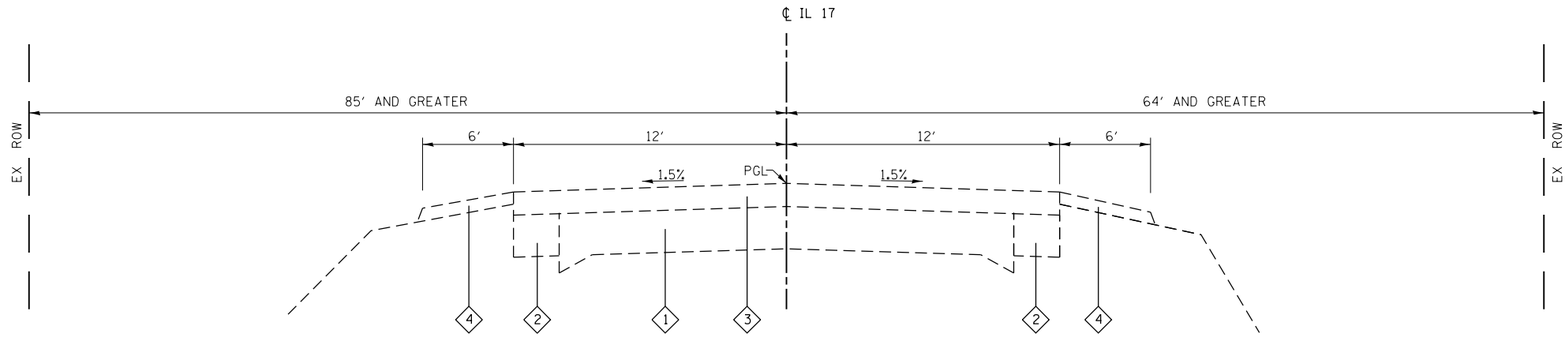


• TRANSITION SUPERELEVATION FROM 5.5% TO NORMAL CROWN

•• ROLLOVER NOT TO EXCEED 8.0%

PROPOSED SUPERELEVATION TYPICAL SECTION #1

STA. 124+55.00 TO STA. 128+00.00



EXISTING TYPICAL SECTION #1

STA. 124+55 TO STA. 134+15
BRIDGE OMISSION: STA. 128+51 TO STA. 129+79

TYPICAL SECTION LEGEND

1. EXISTING PCC PAVEMENT
2. EXISTING HMA BASE COURSE
3. EXISTING HMA SURFACE COURSE
4. EXISTING AGGREGATE SHOULDER
5. PROPOSED HMA SURFACE COURSE, MIX "D", N50, 2" [4]
6. PROPOSED HMA SURFACE REMOVAL, VARIABLE DEPTH
7. PROPOSED POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)
8. PROPOSED HMA BASE COURSE, 8" (SEE STAGING TYPICAL SECTIONS) [5]
9. PROPOSED SUBBASE GRANULAR MATERIAL, TYPE B 4"
10. PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL, 6" [1]
11. PROPOSED TOPSOIL FURNISH AND PLACE, 4"
12. PROPOSED EMBANKMENT
13. PROPOSED EPOXY PAVEMENT MARKING - LINE, 4"
14. PROPOSED SHOULDER RUMBLE STRIPS, 8"

TYPICAL SECTION NOTES

[1] SEE DISTRICT 4 STANDARDS FOR EROSION CONTROL AGGREGATE REQUIREMENTS. THIS ITEM IS ONLY REQUIRED BEHIND PROPOSED GUARDRAIL. SEE PLAN AND PROFILE SHEETS FOR EXACT LOCATIONS.

[2] GUARDRAIL TO BE INSTALLED ON THE LEFT SIDE FROM STA. 124+41.00 TO STA. 128+34.63 AND FROM STA. 129+74.59 TO STA. 131+18.34

[3] GUARDRAIL TO BE INSTALLED ON THE RIGHT SIDE FROM STA. 127+11.66 TO STA. 128+55.41 AND FROM STA. 129+95.37 TO STA. 130+89.12

[4] USE BINDER COURSE (MINIMUM THICKNESS 1.5") TO MEET PROPOSED PROFILE GRADE FROM STA 127+50 TO STA 128+00 AND FROM STA 130+30 TO STA 131+60. SEE PAVEMENT TRANSITION DETAIL.

[5] PAID FOR AS HMA SHOULDERS FROM STA. 124+55 TO STA. 126+30 AND FROM STA. 131+97 TO STA. 134+15 ON THE RIGHT SIDE.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
IL 17 OVER INDIAN CREEK

SCALE: NTS | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	12
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

PAVEMENT

STATION	STATION	OFFSET	SUB GRAN MAT B 4 (TON)	HMA BASE CSE 8 (SQ YD)	P BIT MATLS TACK CT (NOTE 1 & 4) (POUND)	LEV BIND MM N50 (NOTE 1) (TON)	HMA SURF REM BUTT JT (SQ YD)	TEMPORARY RAMP (SQ YD)	HMA SC "D" N50 (NOTE 1 & 2) (TON)	INCIDENTAL HMA SURF (TON)	PVT CON PCC BR APP SL (SQ YD)	PAVEMENT REM (SQ YD)	AGGREGATE SHLDS B 8 (SQ YD)	HMA SHOULDERS (TON)	SHOULDER RUM STRIP 8 (FOOT)	HMA SURF SURF REM VAR DP (NOTE 3) (SQ YD)	MATL TRANSFER DEVICE (TON)
124+55	128+00	LT	269	231	166									26	345	231	
124+55	128+00	CL			662				103							920	103
124+55	128+00	RT												26	345		
124+55	126+30	RT	135											39			
124+55	124+95	CL					107										
126+30	128+00	RT			82											113	
126+30	128+60	RT	204	212								93					
127+50	127+80	CL					80										
127+50	128+00	CL			48	16											
127+93	128+00	CL						23									
128+00	128+27	CL									113						
128+00	128+50	CL										24					
129+79	130+30	CL										28					
129+88	131+97	RT	185	189								76					
130+03	130+30	CL									113						
130+30	133+22	LT	221	189	136									22	292	189	
130+30	134+15	RT												29	385		
130+30	134+15	CL			739				115							1,027	115
130+30	131+97	RT			80											111	
130+30	130+60	CL			29	7	80										
130+30	130+37	CL						23									
131+97	134+15	RT	170											49			
133+10	133+43	LT											17				
133+50		LT					134			14							
133+63	134+15	LT											35				
133+75	134+15	CL					107										
133+85	134+15	LT													30		
TOTAL			1,184	821	1,942	23	508	46	218	14	226	221	52	191	1,397	2,591	218

PAVEMENT NOTES:

1. APPLICATION RATES USED FOR QUANTITY ESTIMATES ARE AS FOLLOWS:
   HOT-MIX ASPHALT: 0.056 TONS/SQ YD/INCH
   P BIT MATLS TACK CT: MILLED SURFACE 0.08 LBS/SQ FT
   LEVELING BINDER 0.04 LBS/SQ FT
2. THE PROPOSED SURFACE COURSE SHALL BE 2 IN. THICK.
3. MINIMUM DEPTH OF HMA SURFACE REMOVAL, 1/2 IN. THICK
4. ASSUMED 2 APPLICATIONS OF P BIT MATLS TACK CT (MILLED SURFACE AND LEVELING BINDER)

SURVEY MARKERS

STATION	OFFSET	PERM SURV MKRS T1 (EACH)
126+39.22	CL	1
128+44.60	20.3' LT	1
141+40.00	CL	1
TOTAL		3

GUARDRAIL SCHEDULE

STATION	STATION	LOCATION	SPBGR TY A 6FT POSTS (FOOT)	TR BAR TRM T1 SPL TAN (EACH)	TRAF BAR TERM T 6 (EACH)	GUARDRAIL REMOV (FOOT)	TEMPORARY SPBGR, TY A (FOOT)	TEMP TR BAR TERM 6 (EACH)	TERMINAL MARKER DA (NOTE 1) (EACH)	GRDRAIL REF TYPE A (EACH)	BARR WALL REF TYPE C (EACH)	GDRL AGG EROS CONT (TON)	TEMP TRBT T1 SPL TAN (EACH)
123+56	128+44	LT										71	
123+91	128+34	WB DEPART (LT)	350.0	1	1				1	6			
123+91	130+90	LT				459					4		
126+70	128+63	EB APPROACH (RT)					100	1					1
126+77	128+68	RT										25	
127+12	128+55	EB APPROACH (RT)	50.0	1	1				1	4			
127+40	130+77	RT				207					4		
129+62	131+53	LT										19	
129+75	131+18	WB APPROACH (LT)	50.0	1	1				1	4			
129+86	131+23	RT										25	
129+92	130+85	EB DEPART (RT)						1					1
129+96	130+89	EB DEPART (RT)		1	1				1	4			
TOTAL			450.0	4	4	666	100	2	4	18	8	140	2

TRAFFIC CONTROL NOTES:

1. SEE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL SHEETS FOR TEMPORARY GUARDRAIL LOCATIONS.
2. APPLICATION RATE FOR AGGREGATE EROSION CONTROL ASSUMES 2.1 TON/CU YD.

MISCELLANEOUS SCHEDULE

DESCRIPTION	UNIT	QUANTITY
TREE REMOVAL, ACRES	ACRE	0.3
MOWING	ACRE	1.25
ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	10
ENGINEER'S FIELD LABORATORY	CAL MO	10
MOBILIZATION	L SUM	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
TEMPORARY RUMBLE STRIPS	EACH	6
CHANGEABLE MESSAGE SIGN	CAL DAY	14
CONSTRUCTION LAYOUT	L SUM	1

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES
IL 17 OVER INDIAN CREEK

SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	13
		CONTRACT NO. 68895		
		ILLINOIS FED. AID PROJECT		

PAVEMENT MARKING

STATION	STATION	OFFSET	TEMP PVT MK LINE 4 (NOTE 3) (FOOT)	PAVT MARK TAPE T4 4 (NOTE 1) (FOOT)	PAVT MARK TAPE T4 24 (FOOT)	EPOXY PVT MK LINE 4 (YELLOW) (NOTE 2) (FOOT)	EPOXY PVT MK LINE 4 (WHITE) (NOTE 2) (FOOT)	RAISED REFL PAVT MKR (EACH)	RAISED REF PVT MK REM (EACH)	PAVMT MRKG REM WTR BL (SQ FT)	TEMP PAVT MKING REMOV (SQ FT)
STAGE 1, PHASE 1											
124+60		RT			12						24
124+60	127+25	CL								22	
124+86	126+30	RT		144							48
124+86	133+00	LT		814							271
126+30	131+97	RT		567							189
131+05	133+60	CL								21	
131+97	133+41	RT		144							48
133+60		LT			12						24
STAGE 1, PHASE 2											
125+30	133+80	LT		850							283
126+30	131+97	RT		567						189	189
STAGE 2											
125+00	133+00	RT		800							267
126+55	132+17	LT		562						110	187
MILLED AND/OR FINAL SURFACE											
124+55	134+15	CL	240	480		240					240
124+55	134+15	RT	960	1,920			960				960
124+55	134+15	LT	960	1,920			960				960
124+55	128+00	CL						5	5		
130+30	134+15	CL						5	5		
TOTAL			2,160	8,768	24	240	1,920	10	10	342	3,690

PAVEMENT MARKING NOTES:

1. QUANTITY UNDER MILLED AND/OR FINAL SURFACE REPRESENTS TWO APPLICATIONS. ONE FOR THE MILLED SURFACE AND ANOTHER FOR THE FINAL SURFACE
2. SEE HIGHWAY STANDARD 780001 FOR PAVEMENT MARKING DETAILS.
3. TEMPORARY PAVEMENT MARKING LINE 4" WILL BE USED AT THE DIRECTION OF THE ENGINEER IF WEATHER OR DELAYS PREVENT THE INSTALLATION OF THE PERMANENT PAVEMENT MARKING. THIS QUANTITY REPRESENTS ONE APPLICATION.

TRAFFIC CONTROL SCHEDULE

STATION	OFFSET	STATION	OFFSET	TEMP CONC BARRIER (FOOT)	REL TEMP CONC BARRIER (FOOT)	IMP ATTN TEMP NRN TL 3 (EACH)	IMP ATTN REL NRN TL 3 (EACH)	PIN TEMP CONC BARRIER (EACH)
STAGE 1								
126+44	CL	131+87	CL	550.0				114
126+16	LT					1		
132+15	LT					1		
STAGE 2								
126+91	CL	131+83	CL		500.0			90
126+63	RT						1	
132+11	RT						1	
TOTAL				550.0	500.0	2	2	204

TRAFFIC CONTROL NOTES:

1. PINNING TEMPORARY CONCRETE BARRIER IS INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER ACROSS THE BRIDGE AND APPROACH PAVEMENT. REFER TO STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.

SEEDING

STATION	STATION	OFFSET	SEEDING CL 2A (ACRE)	NITROGEN FERT NUTR (POUND)	PHOSPHORUS FERT NUTR (POUND)	POTASSIUM FERT NUTR (POUND)	MULCH METHOD 2 (ACRE)
124+55	128+94	RT	0.50	45	45	45	0.50
123+56	128+43	LT	0.10	9	9	9	0.10
129+33	133+40	LT	0.10	9	9	9	0.10
129+87	134+15	RT	0.20	18	18	18	0.20
133+68	134+15	LT	0.10	9	9	9	0.10
TOTAL			1.00	90	90	90	1.00

EARTHWORK

STATION	STATION	EARTH EXCAVATION (CU YD)	AGG SHOULDER EXCAVATION (NOTE 3 & 4) (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (NOTE 1 & 5) (CU YD)	EMBANKMENT (NOTE 2) (CU YD)	FURNISHED EXCAVATION WASTE (+) OR SHORTAGE (-) (CU YD)	TOPSOIL FURNISH & PLACE 4" (SQ YD)
124+55	128+94						2,163
124+55	128+43						264
124+55	128+56	260	95	125	270	-145	
129+33	133+40						679
129+74	134+15	260	100	120	70	50	
129+87	134+15						960
133+68	134+15						29
TOTAL		520	195	245	340	-95	4,095

EARTHWORK NOTES:

1. ESTIMATED SHRINKAGE FACTOR = 25%.
2. APPROXIMATE EMBANKMENT QUANTITY IS SHOWN FOR INFORMATION ONLY.
3. APPROXIMATE AGG SHOULDER EXCAVATION QUANTITY IS SHOWN FOR INFORMATION ONLY.
4. AGG SHOULDER EXCAVATION QUANTITY IS INCLUDED IN THE EARTH EXCAVATION QUANTITY.
5. VALUES FOR ADJUSTED EARTH EXCAVATION DO NOT INCLUDE AGG SHOULDER EXCAVATION. THE ENGINEER WILL DETERMINE IF AGG SHOULDER CAN BE INCORPORATED INTO THE EMBANKMENT.
6. EARTH EXCAVATION DOES NOT INCLUDE STRUCTURE EXCAVATION OR THE EXCAVATION NECESSARY FOR THE PLACEMENT OF RIPRAP.

EROSION CONTROL

STATION	STATION	OFFSET	EROSION CONTR BLANKET (SQ YD)	TEMP EROS CONTR SEED (NOTE 1) (POUND)	TEMP DITCH CHECKS (FOOT)	PERIMETER EROS BAR (FOOT)
123+56	128+43	LT		20		
123+56	128+00	LT				446
124+55	128+94	RT	2,163	100		456
128+00		LT			9	
128+95		RT			9	
129+33	130+50	LT	512			
129+33	133+40	LT		20		
129+87	132+50	RT	899			
129+87	134+15	RT		40		
130+00	130+05	LT			9	
130+00	133+00	LT				318
130+00	134+15	RT				424
133+68	134+15	LT		20		
TOTAL			3,574	200	27	1,644

EROSION CONTROL NOTES:

1. THE QUANTITY FOR TEMPORARY EROSION CONTROL SEEDING ASSUMES TWO SEPARATE APPLICATIONS AT A RATE OF 100 POUNDS/ACRE PER APPLICATION. THE CONTRACTOR SHALL APPLY AS NECESSARY AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

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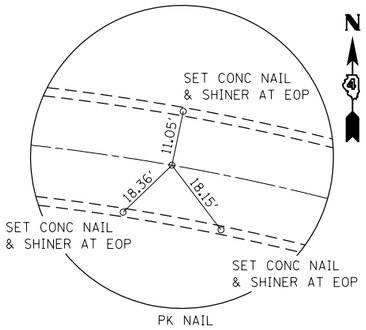
SCHEDULES OF QUANTITIES
IL 17 OVER INDIAN CREEK

SCALE: | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	14
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			



POT STA 123+50.00
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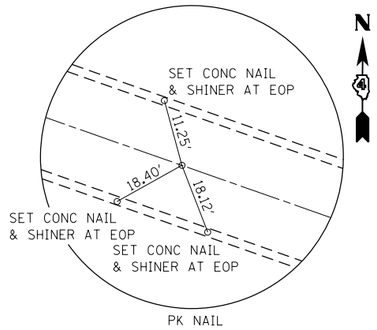
E: 2,373,871.11



PT STA 126+39.22
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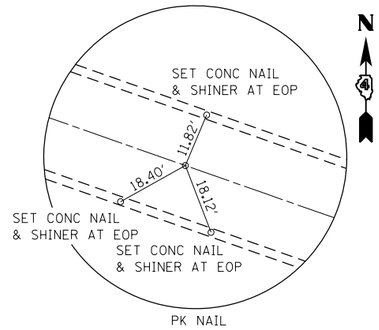
E: 2,374,148.40



POT STA 141+40.00
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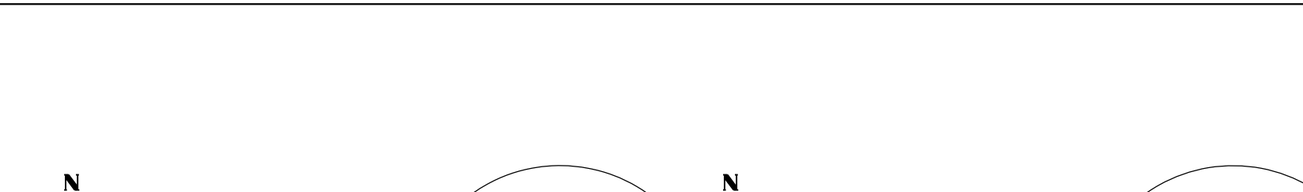
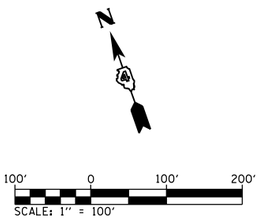
E: 2,375,432.57



EXIST. CURVE C1
PI STA. = 123+70.41
Δ = 10° 47' 04" (RT)
D = 2° 00' 00"
R = 2,864.79'
T = 270.41'
L = 539.22'
E = 12.73'
P.C. STA. = 121+00.00
P.T. STA. = 126+39.22

BM #907 - CHISELED "□" ON TOP OF MIDDLE STEP OF SOUTHEAST WINGWALL OF BRIDGE OVER INDIAN CREEK RTE 17 SN 088-0001
STA 129+97.80, 23.85' RT
ELEVATION 694.57

BM CB-1 - CHISELED "□" CENTER OF CONCRETE HEADWALL WITH 36" CMP APPROX 70' EAST OF CLINTON ROAD ON NORTH SIDE OF RTE 17
STA 134+48.62, 48.61' LT
ELEVATION 679.00



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OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

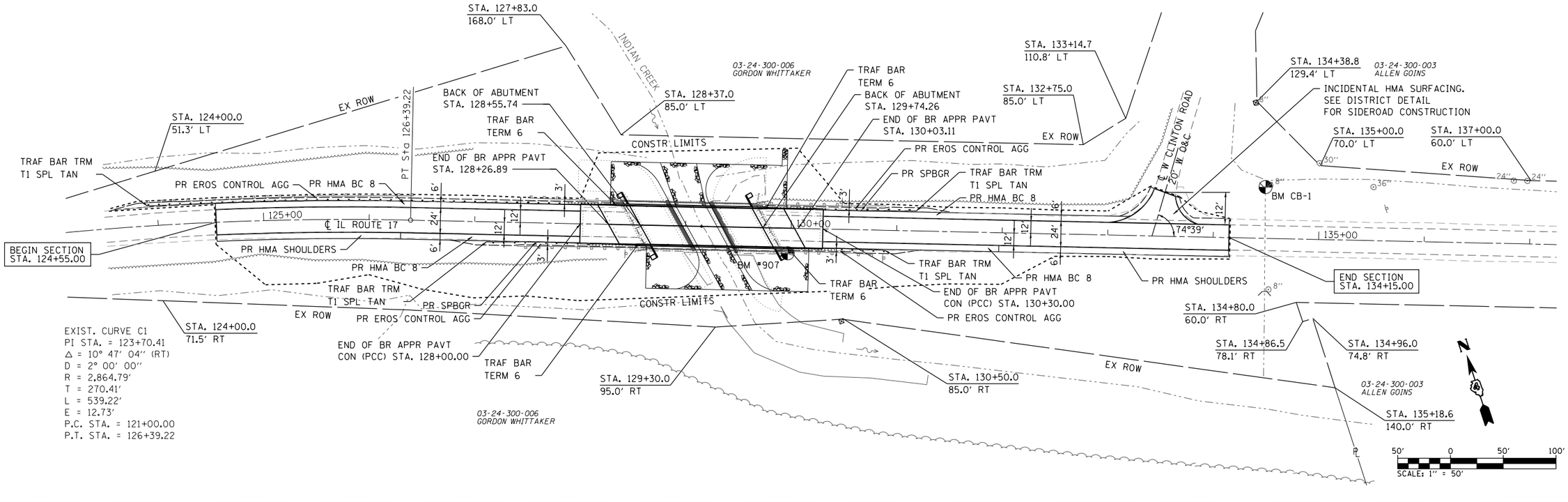
USER NAME = stephanie.lee	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 200.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT TIES & BENCHMARKS
IL 17 OVER INDIAN CREEK

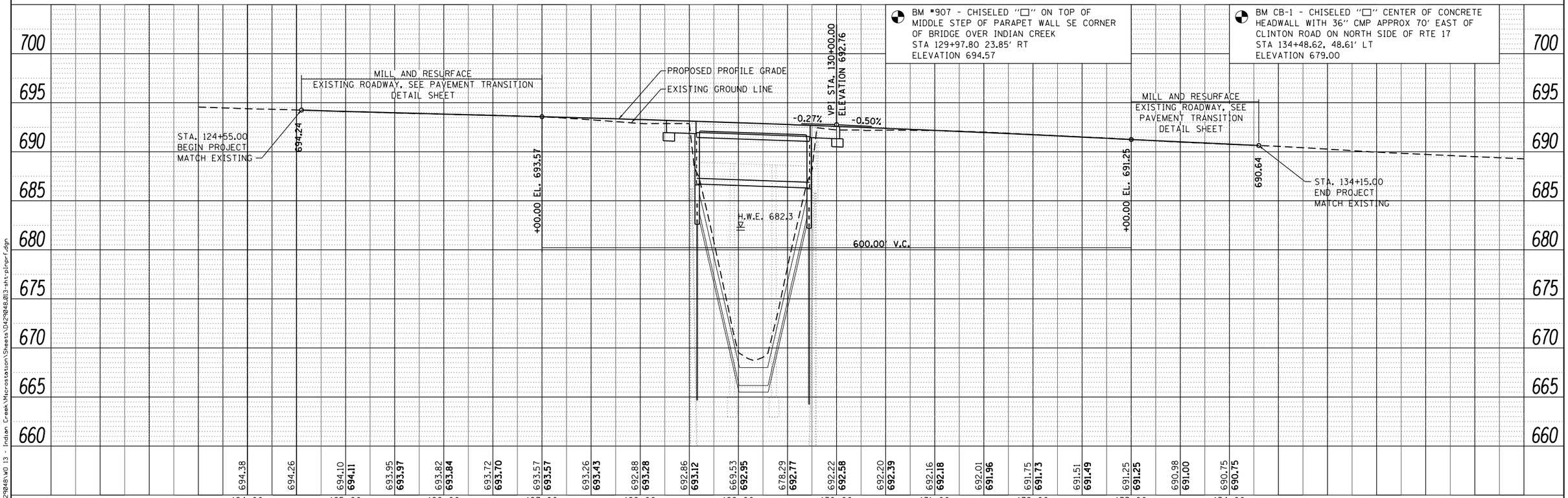
SCALE: 1"=100' | SHEET 1 OF 1 SHEETS | STA.123+50.00 TO STA.140+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	15
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			



BM #907 - CHISELED "□" ON TOP OF MIDDLE STEP OF PARAPET WALL SE CORNER OF BRIDGE OVER INDIAN CREEK
STA 129+97.80 23.85' RT
ELEVATION 694.57

BM CB-1 - CHISELED "□" CENTER OF CONCRETE HEADWALL WITH 36" CMP APPROX 70' EAST OF CLINTON ROAD ON NORTH SIDE OF RTE 17
STA 134+48.62, 48.61' LT
ELEVATION 679.00



USER NAME = stephanie.lee	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 1/26/2018	DATE -	REVISED -	

DATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE SHEETS
IL 17 OVER INDIAN CREEK

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. 124+55.00 TO STA. 134+15.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	16
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

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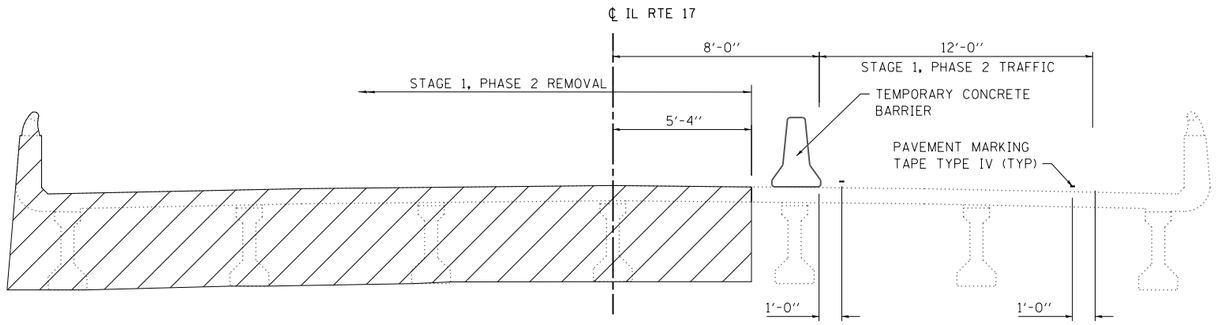
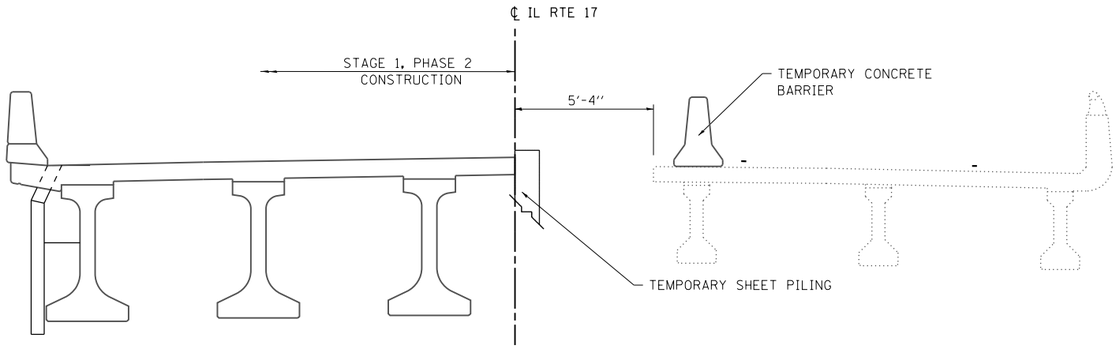


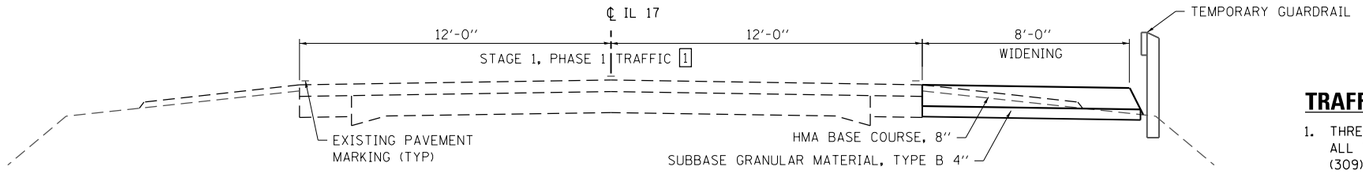
STAGE 1 BRIDGE REMOVAL TYPICAL SECTION

(LOOKING EAST AT STRUCTURE)
FOR INFORMATION ONLY



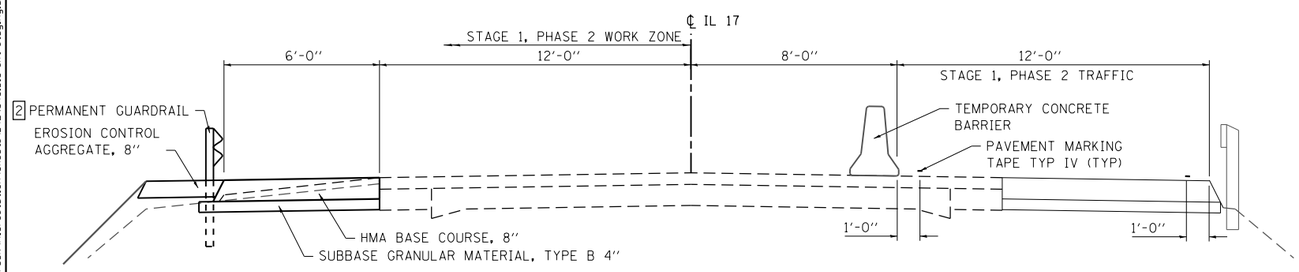
STAGE 1 BRIDGE CONSTRUCTION TYPICAL SECTION

(LOOKING EAST AT STRUCTURE)
FOR INFORMATION ONLY



STAGE 1, PHASE 1 CONSTRUCTION TYPICAL SECTION

(LOOKING EAST)



STAGE 1, PHASE 2 CONSTRUCTION TYPICAL SECTION

(LOOKING EAST)

STAGE CONSTRUCTION GENERAL NOTES

1. ONE LANE OF TRAFFIC ON ILLINOIS ROUTE 17 SHALL BE MAINTAINED AT ALL TIMES.
2. EMERGENCY ACCESS SHALL BE PROVIDED AT ALL TIMES.

SUGGESTED STAGE 1 CONSTRUCTION

PHASE 1

1. UTILIZING TRAFFIC CONTROL AND PROTECTION, STANDARD 701316, REMOVE THE EXISTING SHOULDER AND GUARDRAIL AND CONSTRUCT THE HMA BASE COURSE, 8" ON THE RT SIDE OF THE ROADWAY FROM STA. 126+30 TO STA. 131+97. TRAFFIC CONTROL SURVEILLANCE SHALL BE PAID FOR THROUGHOUT THE DURATION THAT STANDARD 701316 IS UTILIZED. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.
2. INSTALL TEMPORARY GUARDRAIL FROM STA. 127+59 TO STA. 130+39, RIGHT.
3. INSTALL TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 TO CLOSE THE LT HALF OF ROADWAY. SEE "TRAFFIC CONTROL NOTES" FOR MORE DETAILS.
4. INSTALL PAVEMENT MARKING TAPE TYPE IV FOR STAGE 1, PHASE 2 TRAFFIC.
5. PLACE TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS AS SHOWN ON THE NEXT SHEET.

PHASE 2

1. UTILIZING TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, DIRECT TRAFFIC TO THE RT LANE OF IL ROUTE 17.
2. CONSTRUCT TEMPORARY SHEET PILING AT THE EAST AND WEST SIDE OF EXISTING STRUCTURE AND REMOVE THE LT SIDE OF THE EXISTING STRUCTURE.
3. CONSTRUCT THE LT SIDE OF THE BRIDGE, BRIDGE APPROACH PAVEMENT, AND BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)
4. CONSTRUCT THE HMA BASE COURSE, 8" ON THE LT SIDE OF THE ROADWAY FROM STA. 124+55 TO STA. 133+28.
5. INSTALL GUARDRAIL AND EROS CONTROL AGG ON LT SIDE OF IL ROUTE 17 AND COMPLETE DRAINAGE AND GRADING IMPROVEMENTS.
6. INSTALL PAVEMENT MARKING TAPE TYPE IV FOR STAGE 2 TRAFFIC.

W12-I103

PRIOR TO JUNCTION OF IL 17 AND IL 91 (2 ASSEMBLIES) AND JUNCTION OF IL 17 AND IL 78 (2 ASSEMBLIES)

SEE SPECIAL PROVISION "WIDTH RESTRICTION SIGNING" FOR FURTHER DETAILS.

WIDTH RESTRICTION SIGNING DETAILS

TRAFFIC CONTROL NOTES:

1. THREE PHASE SIGNAL OPERATION IS REQUIRED WHEN HWY STD 701321 IS IN EFFECT. THE ENGINEER OF TRAFFIC SHALL APPROVE ALL TIMING PARAMETERS. THE CONTRACTOR SHALL CONTACT ERIC HOWARD, IDOT DISTRICT 4 TRAFFIC SIGNAL ENGINEER, AT (309) 671-4481, TWO WEEKS PRIOR TO SIGNAL TURN ON.
2. THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO ALL MUTCD REQUIREMENTS.
3. THE CONTRACTOR SHALL USE MICROWAVE DETECTION FOR USE WITH THE TEMPORARY TRAFFIC SIGNALS IN ACCORDANCE WITH HWY STD 701321. THE CONTRACTOR MAY ELECT TO UTILIZE DETECTOR LOOPS.
4. REMOVAL OF DETECTOR LOOPS AND RUMBLE STRIPS AFTER STAGED CONSTRUCTION SHALL BE COMPLETED TO THE SATISFACTION OF THE ENGINEER. ANY DAMAGE TO THE EXISTING PAVEMENT FROM THE RUMBLE STRIPS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THERE WILL BE NO ADDITIONAL COMPENSATION.
5. ALL TEMPORARY STRIPING, REFLECTORS, ETC. SHALL BE PLACED PRIOR TO PLACING TEMPORARY CONCRETE BARRIERS.
6. THE PAY LIMITS OF PINNING TEMPORARY CONCRETE BARRIERS SHALL EXCLUDE THE EXISTING BRIDGE, PROPOSED BRIDGE, AND PROPOSED APPROACH PAVEMENT. PINNING TEMPORARY CONCRETE BARRIERS ACROSS THE EXISTING BRIDGE, PROPOSED BRIDGE, AND PROPOSED APPROACH PAVEMENT IS INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER. SEE STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.

ADDITIONAL NOTES

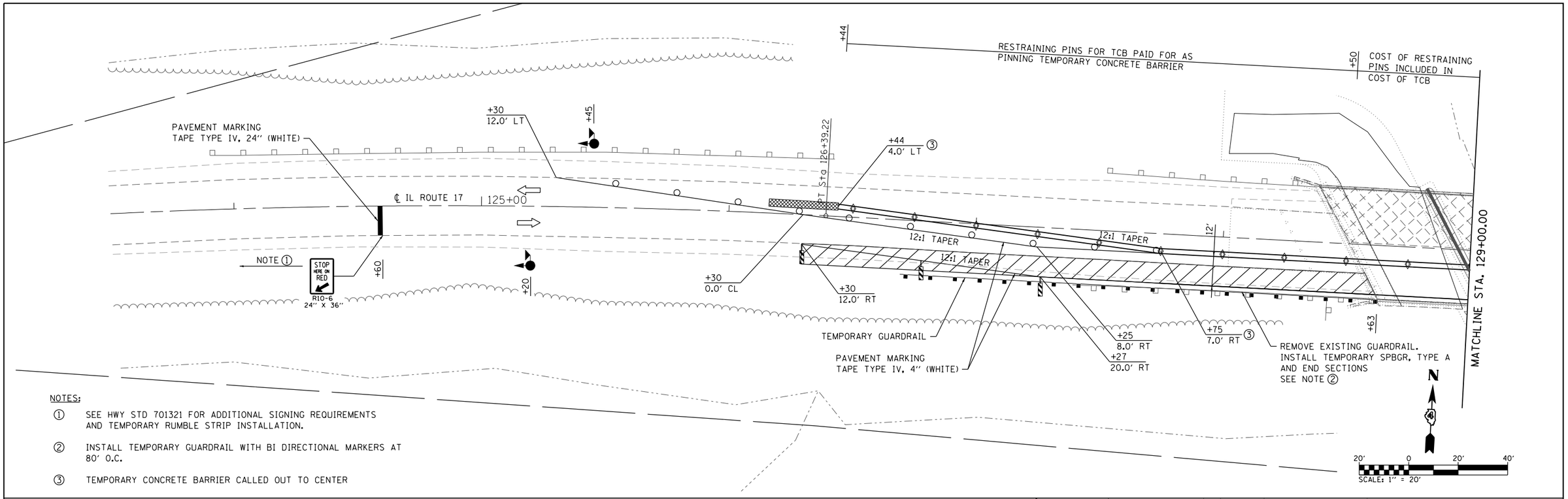
[1] TWO-WAY TRAFFIC SHALL BE PERMITTED DURING NON-CONSTRUCTION HOURS. SEE HWY STANDARD 701316 FOR LANE CLOSURE PROCEDURES DURING WIDENING OPERATIONS.

[2] THE PERMANENT GUARDRAIL SHALL BE BUILT TALL ENOUGH TO MEET THE HEIGHT REQUIREMENTS LISTED ON HWY STD 630001 AFTER SURFACE COURSE HAS BEEN PLACED.

FILE NAME = M:\29848\WO 13 - Indian Creek\Microstation\Sheets\D429848_013-sht-staging.dgn

OATES ASSOCIATES ILLINOIS DESIGN FIRM LICENSE NO: 184.001115	USER NAME = stephanie.lee	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 1 TYPICAL SECTIONS & STAGING NOTES IL 17 OVER INDIAN CREEK
		DRAWN -	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 1/26/2018	DATE -	REVISED -		SCALE: NTS | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	17
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

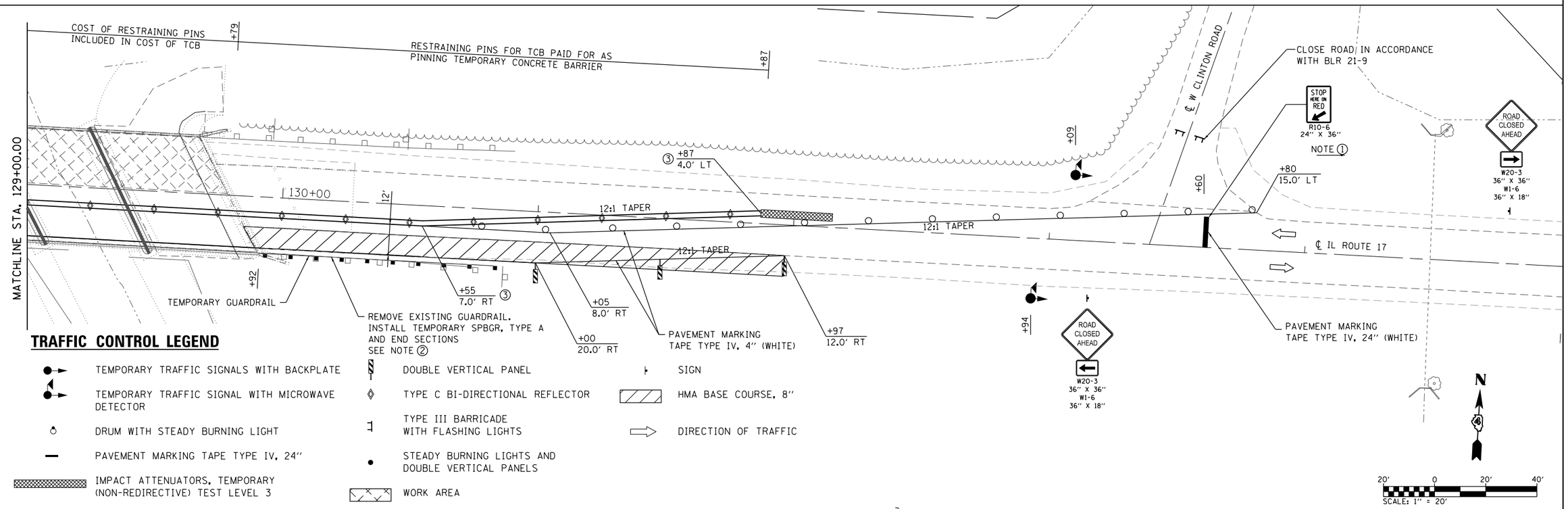


NOTES;

① SEE HWY STD 701321 FOR ADDITIONAL SIGNING REQUIREMENTS AND TEMPORARY RUMBLE STRIP INSTALLATION.

② INSTALL TEMPORARY GUARDRAIL WITH BI DIRECTIONAL MARKERS AT 80' O.C.

③ TEMPORARY CONCRETE BARRIER CALLED OUT TO CENTER



TRAFFIC CONTROL LEGEND

- TEMPORARY TRAFFIC SIGNALS WITH BACKPLATE
- TEMPORARY TRAFFIC SIGNAL WITH MICROWAVE DETECTOR
- DRUM WITH STEADY BURNING LIGHT
- PAVEMENT MARKING TAPE TYPE IV, 24"
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- DOUBLE VERTICAL PANEL
- TYPE C BI-DIRECTIONAL REFLECTOR
- TYPE III BARRICADE WITH FLASHING LIGHTS
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
- WORK AREA
- SIGN
- HMA BASE COURSE, 8"
- DIRECTION OF TRAFFIC

FILE NAME = M:\29848\WD 13 - Indian Creek\Microstation\Sheets\D429848013-sht-staging.dgn

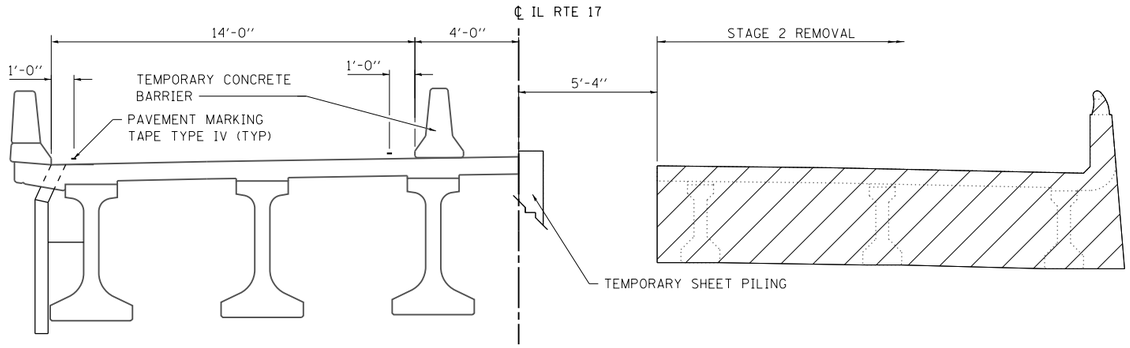
OATES ASSOCIATES ILLINOIS DESIGN FIRM LICENSE NO: 184.001115	USER NAME = stephanie.lee	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/26/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1, PHASE 2 CONSTRUCTION & TRAFFIC CONTROL
IL 17 OVER INDIAN CREEK

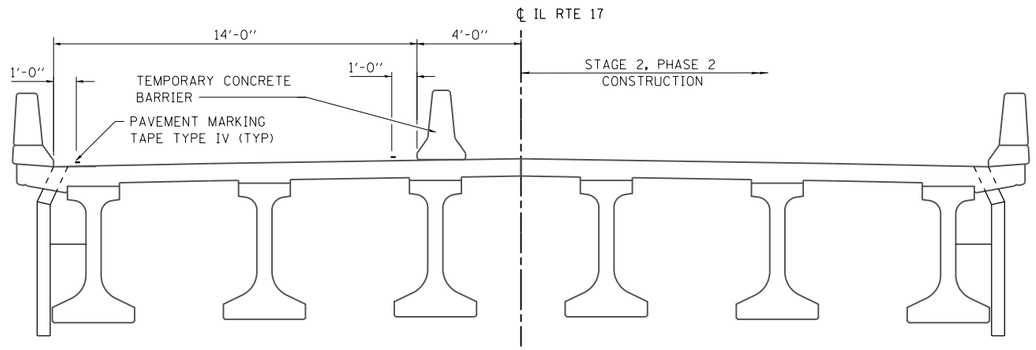
SCALE: 1"=20' | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	18
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			



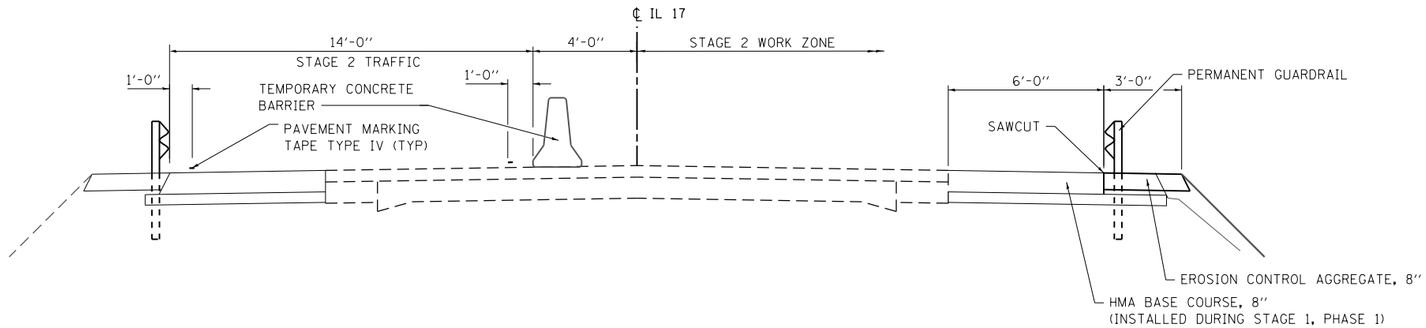
STAGE 2 BRIDGE REMOVAL TYPICAL SECTION

(LOOKING EAST AT STRUCTURE)
FOR INFORMATION ONLY



STAGE 2 BRIDGE CONSTRUCTION TYPICAL SECTION

(LOOKING EAST AT STRUCTURE)
FOR INFORMATION ONLY



STAGE 2 CONSTRUCTION TYPICAL SECTION

(LOOKING EAST)

SUGGESTED STAGE 2 CONSTRUCTION

1. UTILIZING TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, DIRECT TRAFFIC TO THE LT LANE OF IL ROUTE 17.
2. REMOVE THE RT SIDE OF THE EXISTING STRUCTURE.
3. CONSTRUCT THE RT SIDE OF THE BRIDGE, BRIDGE APPROACH PAVEMENT, AND BRIDGE APPROACH PAVEMENT CONNECTOR (PCC).
4. SAWCUT AND REMOVE 2' OF HMA BASE COURSE, 8" ON THE RT SIDE FROM STA. 126+30 TO STA. 131+97.
5. REMOVE TEMPORARY GUARDRAIL AND INSTALL GUARDRAIL AND EROS CONTROL AGG ON RT SIDE OF IL ROUTE 17 AND COMPLETE DRAINAGE AND GRADING IMPROVEMENTS.

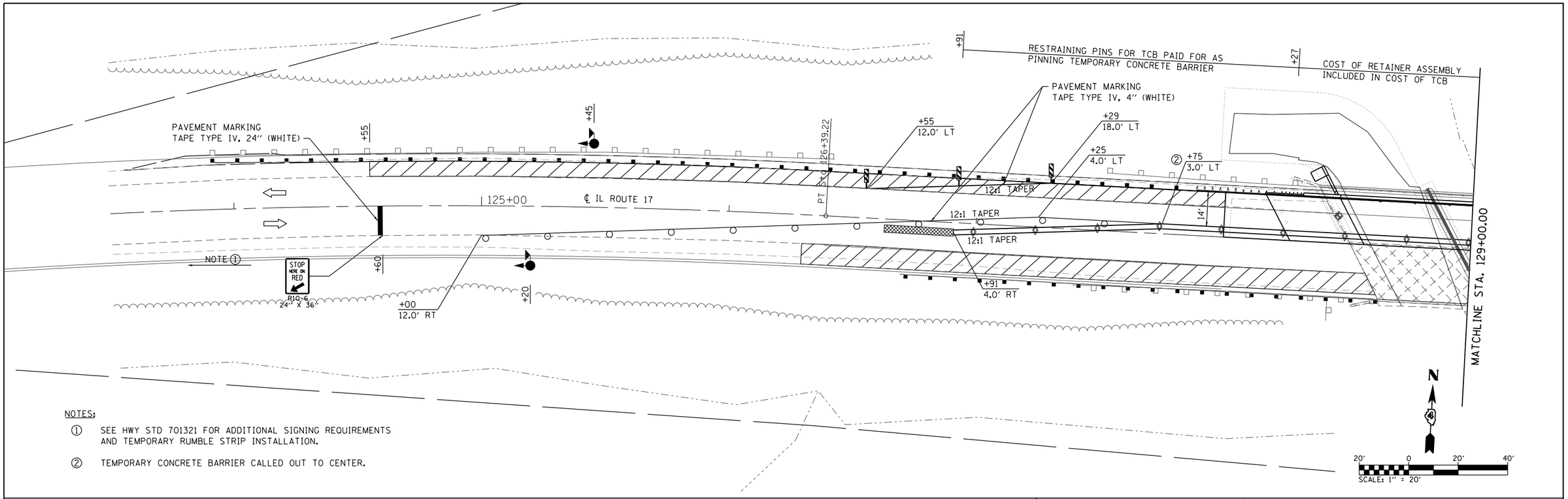
SUGGESTED STAGE 3 CONSTRUCTION

1. PERFORM HMA SURFACE REMOVAL & BUTT JOINT ON THE LT & RT SIDES OF IL ROUTE 17 (INCLUDING SHOULDERS) FROM STA. 124+55 TO STA. 128+00 AND FROM STA. 130+30 TO STA. 134+15.
2. INSTALL HMA SHOULDER ON RIGHT SIDE FROM STA. 124+55 TO STA. 126+30 AND FROM STA. 131+97 TO STA. 134+15 TO A DEPTH OF 2" BELOW THE FINISHED GRADE.
3. PERFORM LEVELING BINDER ON THE LT & RT SIDES OF IL ROUTE 17 FROM STA. 127+50 TO STA. 128+00 AND FROM STA. 130+30 TO STA. 130+60.
4. CONSTRUCT PROPOSED HMA SURFACE COURSE & HMA SHOULDER FOR THE LT & RT SIDES OF IL ROUTE 17 FROM STA. 124+55 TO STA. 128+00 AND FROM STA. 130+30 TO STA. 134+15.
5. CONSTRUCT ALL REMAINING IMPROVEMENTS.

FILE NAME = M:\29848\WD 13 - Indian Creek\Microstation\Sheets\D429848013-sht-staging.dgn

OATES ASSOCIATES ILLINOIS DESIGN FIRM LICENSE NO: 184.001115	USER NAME = stephanie.lee	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 2 TYPICAL SECTIONS & STAGING NOTES IL 17 OVER INDIAN CREEK
		DRAWN -	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 1/26/2018	DATE -	REVISED -		SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

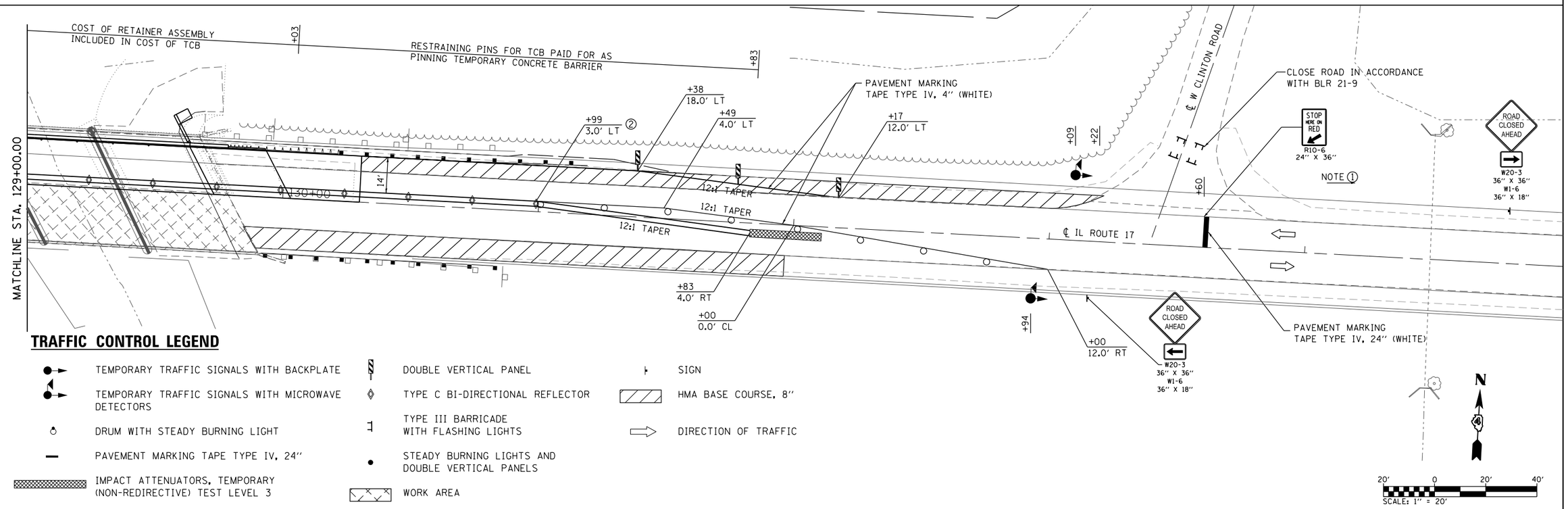
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	19
		CONTRACT NO. 68895		
	ILLINOIS	FED. AID PROJECT		



NOTES:

① SEE HWY STD 701321 FOR ADDITIONAL SIGNING REQUIREMENTS AND TEMPORARY RUMBLE STRIP INSTALLATION.

② TEMPORARY CONCRETE BARRIER CALLED OUT TO CENTER.



TRAFFIC CONTROL LEGEND

- TEMPORARY TRAFFIC SIGNALS WITH BACKPLATE
- TEMPORARY TRAFFIC SIGNALS WITH MICROWAVE DETECTORS
- DRUM WITH STEADY BURNING LIGHT
- PAVEMENT MARKING TAPE TYPE IV, 24"
- IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3
- DOUBLE VERTICAL PANEL
- TYPE C BI-DIRECTIONAL REFLECTOR
- TYPE III BARRICADE WITH FLASHING LIGHTS
- STEADY BURNING LIGHTS AND DOUBLE VERTICAL PANELS
- WORK AREA
- SIGN
- HMA BASE COURSE, 8"
- DIRECTION OF TRAFFIC

FILE NAME = M:\29848\WD 13 - Indian Creek\Microstation\Sheets\D429848013-sht-staging.dgn

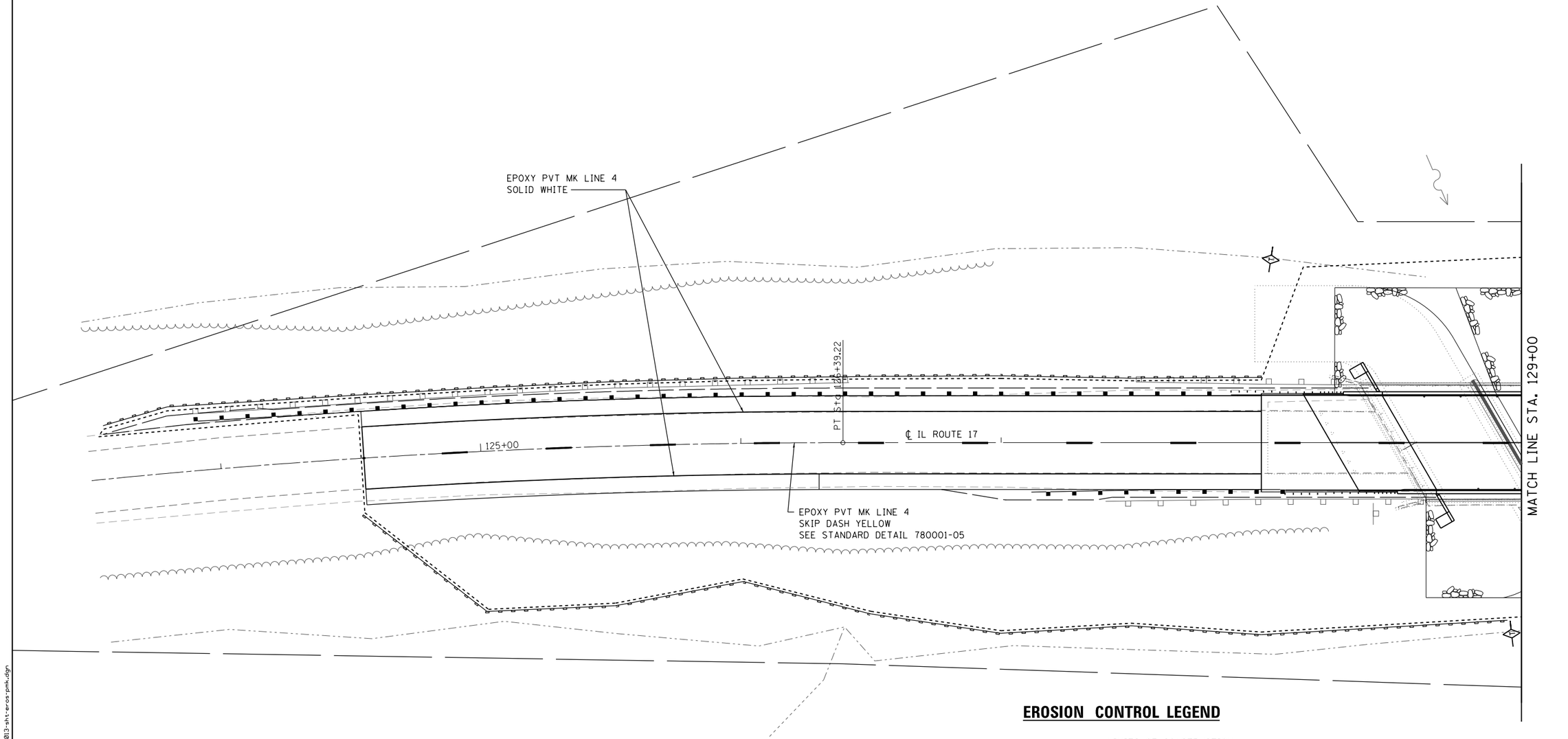
OATES ASSOCIATES ILLINOIS DESIGN FIRM LICENSE NO: 184.001115	USER NAME = stephanie.lee	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/26/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 CONSTRUCTION & TRAFFIC CONTROL
IL 17 OVER INDIAN CREEK

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	20
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			



EROSION CONTROL LEGEND

- LIMITS OF CONSTRUCTION
- TEMPORARY DITCH CHECK
- STONE DUMPED RIPRAP
- PERIMETER EROSION BARRIER SILT FILTER FENCE OR OTHER AS APPROVED BY THE ENGINEER

EROSION CONTROL NOTES

TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT TWO SEPARATE OCCASIONS AT A RATE OF 100 POUNDS/ACRE PER APPLICATION. THE CONTRACTOR SHALL APPLY AS DIRECTED BY THE ENGINEER IN THE FIELD.

N

20′ 0 20′ 40′
SCALE: 1″ = 20′

FILE NAME = M:\29048\WO 13 - Indian Creek\Microstation\Sheets\D429048.013-sht-eros-pmk.dgn

OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME = stephanie.lee	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL & PAVEMENT MARKING SHEET
IL 17 OVER INDIAN CREEK

SCALE: 1″=20′ | SHEET 1 OF 2 SHEETS | STA. 124+55.00 | TO STA. 129+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	21
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

EPOXY PVT MK LINE 4
SOLID WHITE

℄ CLINTON ROAD

MATCH LINE STA. 129+00

130+00

℄ IL ROUTE 17

EPOXY PVT MK LINE 4
SKIP DASH YELLOW
SEE STANDARD DETAIL 780001-05

EROSION CONTROL LEGEND

- LIMITS OF CONSTRUCTION
- TEMPORARY DITCH CHECK
- STONE DUMPED RIPRAP
- PERIMETER EROSION BARRIER
  SILT FILTER FENCE OR OTHER
  AS APPROVED BY THE ENGINEER

EROSION CONTROL NOTES

TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT TWO SEPARATE OCCASIONS AT A RATE OF 100 POUNDS/ACRE PER APPLICATION. THE CONTRACTOR SHALL APPLY AS DIRECTED BY THE ENGINEER IN THE FIELD.

N

20' 0 20' 40'
SCALE: 1" = 20'

FILE NAME = M:\29848\WO 13 - Indian Creek\Microstation\Sheets\D429848.013-sht-eros-pmk.dgn

OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

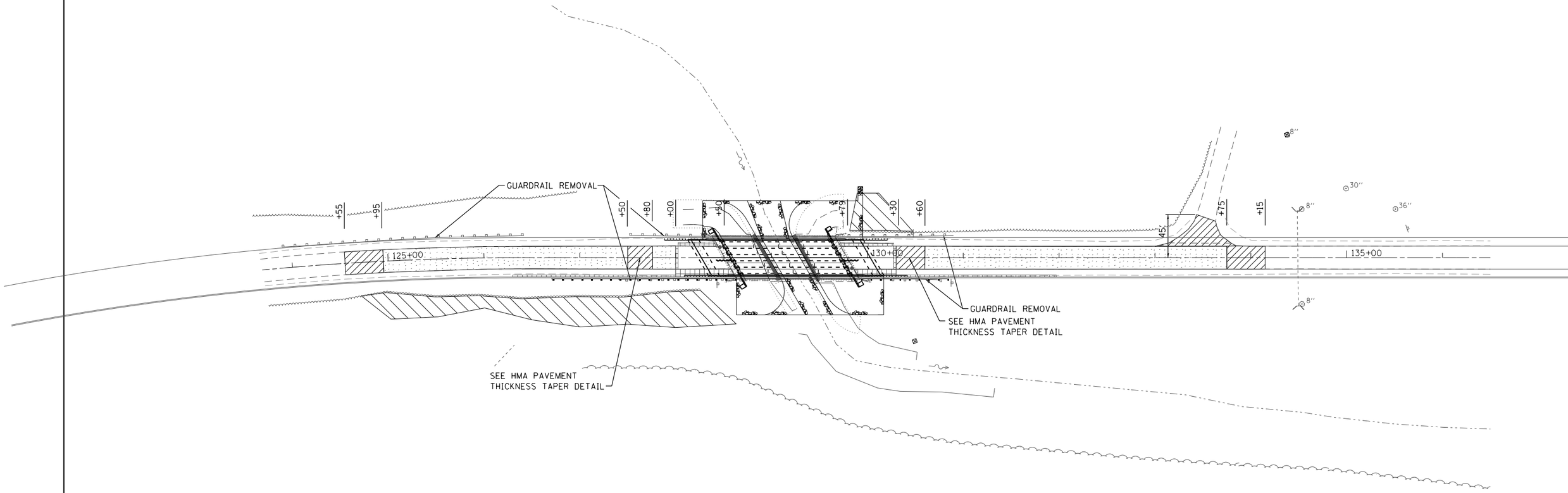
USER NAME = stephanie.lee	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL & PAVEMENT MARKING SHEET
IL 17 OVER INDIAN CREEK

SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	22
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			



REMOVAL LEGEND

- HMA SURF REM BUTT JT
- PAVEMENT REM
- HMA SURF REM VAR DP
- TREE REMOV ACRE

NOTE: EXISTING STRUCTURE AND BRIDGE APPROACH PAVEMENT REMOVAL PAID FOR AS REMOVAL OF EXISTING STRUCTURES

N

50' 0 50' 100'
SCALE: 1" = 50'

FILE NAME = M:\29848\WO 13 - Indian Creek\Microstation\Sheets\D429848.013-sht-removal.dgn

OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME = stephanie.lee	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN SHEET
IL 17 OVER INDIAN CREEK

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. 124+55.00 | TO STA. 134+15.00

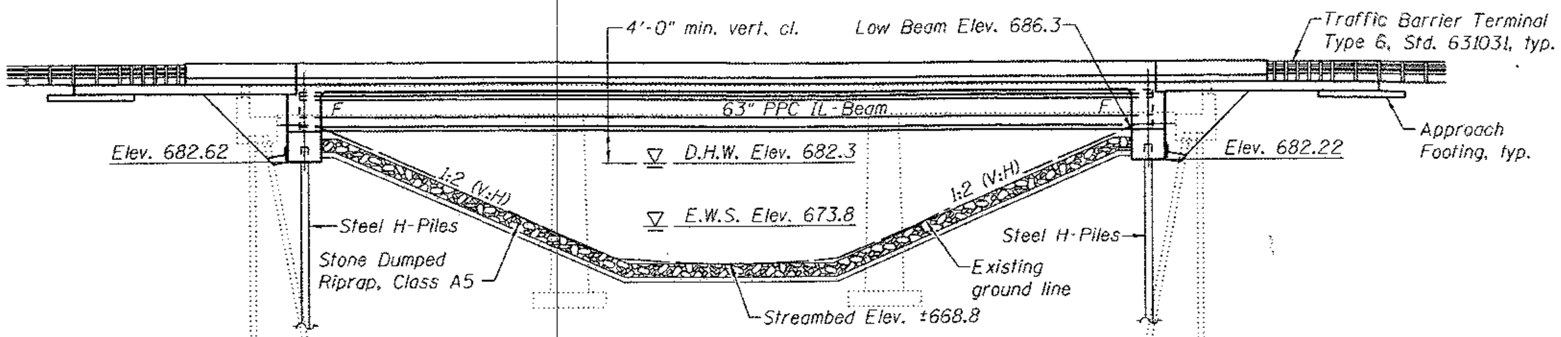
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	23
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

Benchmark: Chiseled square on top of southeast wingwall, Sta. 129+97.80, 23.85' RT, Elev. 694.57.

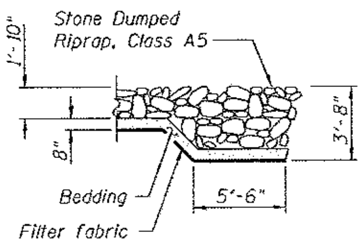
Existing Structure: S.N. 088-0001 was originally built in 1965 as S.B.I. Route 30, Section 14-BR-2. The structure consists of three spans of 36" PPC I-beams with a cast in place concrete deck supported by open abutments founded on steel H-piles and solid wall piers founded on spread footings. The back to back abutment length is 132'-3" and the out to out width is 46'-0". Structure to be removed and replaced.

Traffic Control: One lane of traffic will be maintained utilizing stage construction.

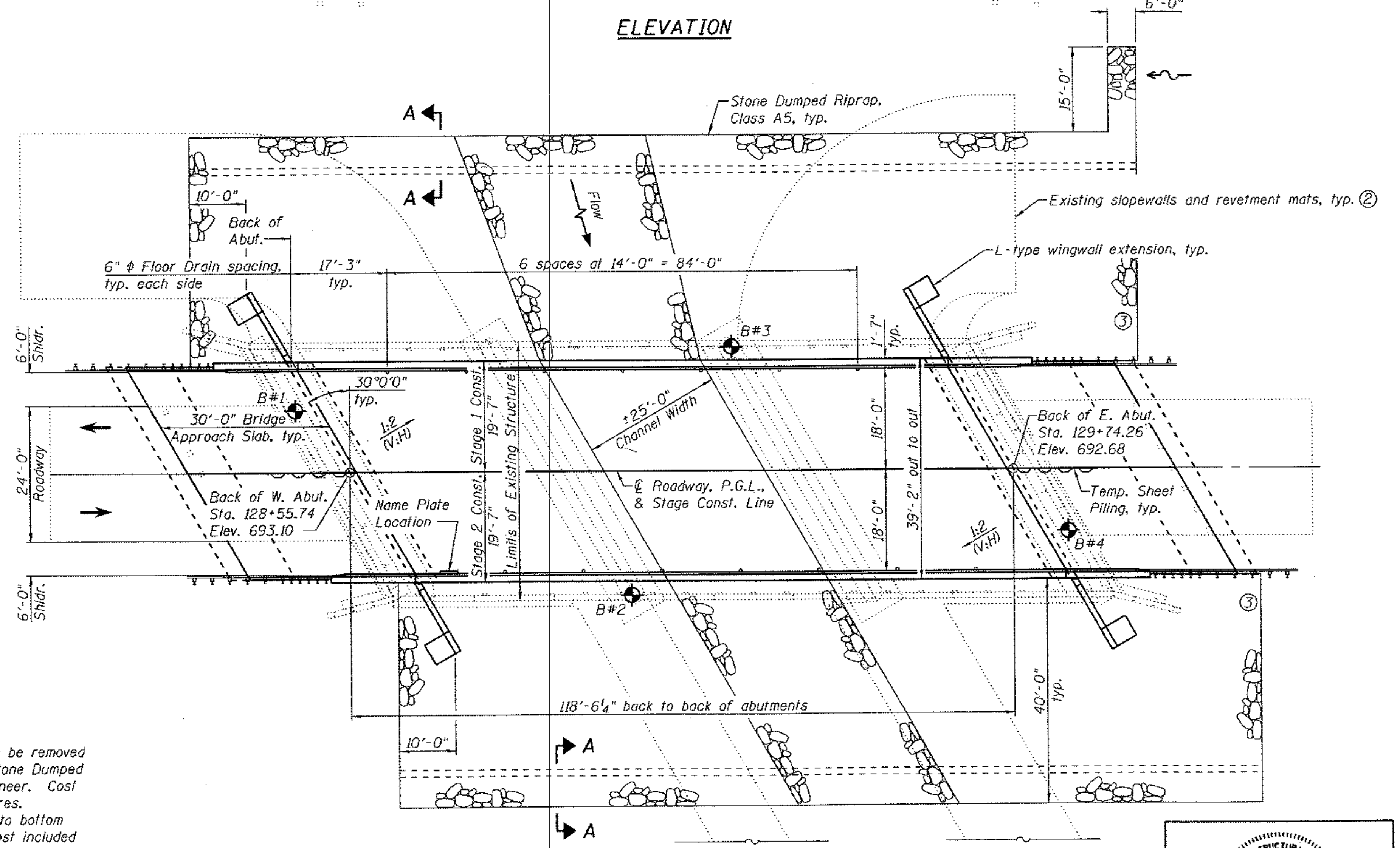
Salvage: None



ELEVATION



SECTION A-A



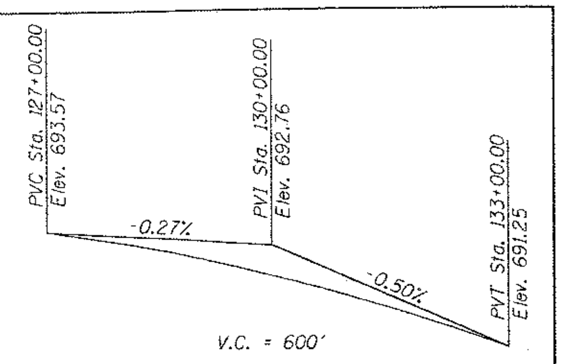
PLAN

Notes:

① Determined by rational analysis.

② Existing slopewalls and revetment mats to be removed where they interfere with placement of Stone Dumped Riprap, Class A5 as directed by the Engineer. Cost included with Removal of Existing Structures.

③ Provide a swale to guide roadway runoff to bottom of slope as directed by the Engineer. Cost included with Stone Dumped Riprap, Class A5.



PROFILE GRADE

(Along ℄ Roadway)

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 Interims

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
f'c = 4,000 psi (Superstructure concrete)
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 8,500 psi
f'ci = 7,000 psi
fpu = 270,000 psi (0.6" ϕ low-relax strands)
fpbt = 202,300 psi (0.6" ϕ low-relax strands)

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

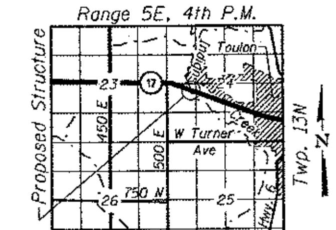
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.07g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.12g
Soil Site Class = C

STATION 129+15
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 643 SEC. 14-BR-3
LOADING HL-93
STR. NO. 088-0032

NAME PLATE

See Std. 515001



LOCATION SKETCH

WATERWAY INFORMATION

Drainage Area = 41.3 sq. mi.		Low Grade Elev. 691.6 at Sta. 132+30							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	4,170	549	675	681.0	0.9	0.0	681.9	681.0
Design	50	6,560	637	780	682.3	2.1	0.1	684.4	682.4
Base	100	7,660	672	822	682.8	2.6	0.2	685.4	683.0
Max. Calc.	500	10,300	723	882	683.5	5.0	1.7	688.5	685.2

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.) W. Abut.	E. Abut.	Item 113①
Q100	682.62	682.22	8
Q200	682.62	682.22	
Design	682.62	682.22	
Check	682.62	682.22	

APPROVED
For Structural Adequacy Only

Engineer of Bridges & Structures

LICENSED STRUCTURAL ENGINEER
DANIEL GEORGE LUTZ
081 006772
STATE OF ILLINOIS

DATE: 1/24/2018

EXPIRATION: 11/30/2018

GENERAL PLAN & ELEVATION
IL RTE. 17 OVER INDIAN CREEK
F.A.P. RTE. 643 - SEC. 14-BR-3
STARK COUNTY
STATION 129+15.00
STRUCTURE NO. 088-0032

OATES ASSOCIATES	USER NAME =	DESIGNED - SJN	REVISED -
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115		CHECKED - KBC	REVISED -
	PLOT SCALE =	DRAWN - SJN	REVISED -
	PLOT DATE = 1/24/2018	CHECKED - KBC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	24

CONTRACT NO. 68895

ILLINOIS FED. AID PROJECT

FILE NAME = H:\P\29048\WO 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\088032-68895-001-General Plan and Elevation.dgn

GENERAL NOTES

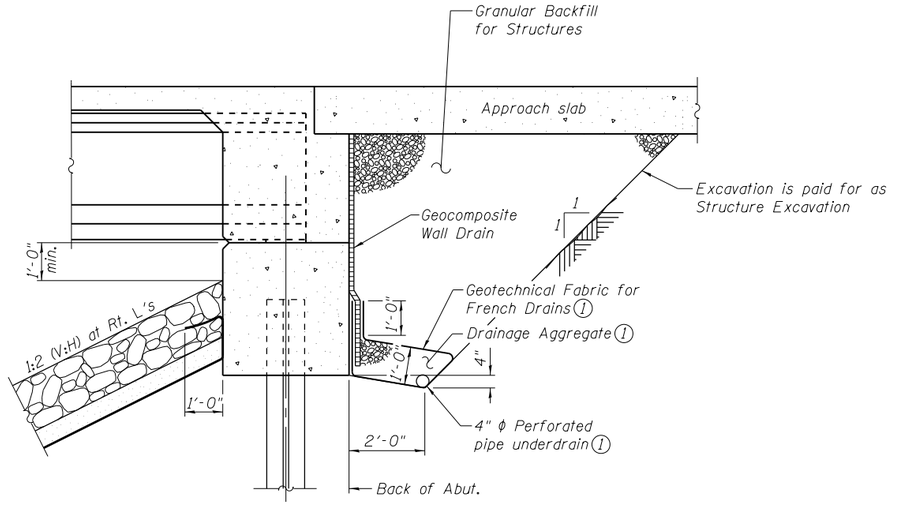
Reinforcement bars designated (E) shall be epoxy coated.

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

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A5	Ton	-	2,035	2,035
Filter Fabric	Sq. Yd.	-	2,082	2,082
Removal of Existing Structures	Each	-	-	1
Structure Excavation	Cu. Yd.	-	229	229
Floor Drains	Each	14	-	14
Concrete Structures	Cu. Yd.	-	109.1	109.1
Concrete Superstructure	Cu. Yd.	223.7	-	223.7
Bridge Deck Grooving	Sq. Yd.	669	-	669
Protective Coat	Sq. Yd.	835	-	835
Concrete Superstructure (Approach Slab)	Cu. Yd.	107.6	-	107.6
Furnishing and Erecting Precast Prestressed Concrete Beams, IL63N	Foot	691.5	-	691.5
Reinforcement Bars, Epoxy Coated	Pound	74,340	17,700	92,040
Bar Splicers	Each	550	108	658
Furnishing Steel Piles HP14x89	Foot	-	390	390
Driving Piles	Foot	-	390	390
Test Pile Steel HP14x89	Each	-	2	2
Pile Shoes	Each	-	12	12
Name Plates	Each	1	-	1
Temporary Sheet Piling	Sq. Ft.	-	733	733
Geocomposite Wall Drain	Sq. Yd.	-	129	129
Pipe Underdrains for Structures 4"	Foot	-	181	181
Granular Backfill for Structures	Cu. Yd.	-	269	269

INDEX OF SHEETS



SECTION THRU INTEGRAL ABUTMENT (2)

(Horiz. dim. at Rt. L's)

Notes:
(1) Included in the cost of Pipe Underdrains for Structures 4".
(2) All drainage system components shall extend to 2'-0" from the end of each wingwall extension 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).

FILE NAME = H:\P\29848\WD 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\0888032-68895-002-General Data.dgn

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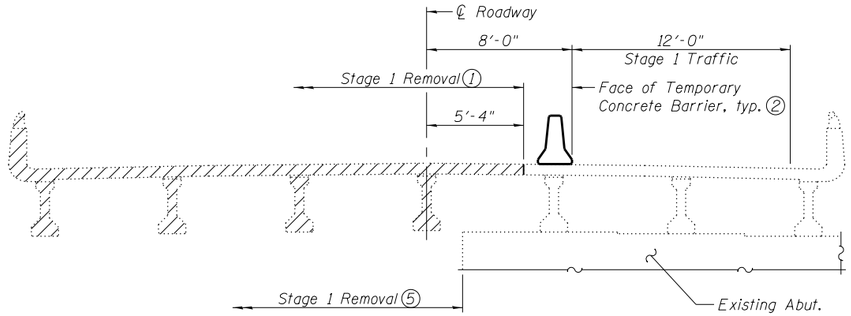
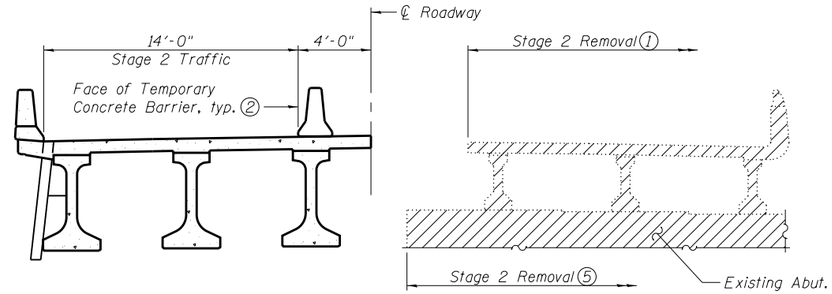
	PLOT SCALE =	DRAWN - SJN	REVISED -				COUNTY STARK
	PLOT DATE = 1/24/2018	CHECKED - KBC	REVISED -				TOTAL SHEETS 77
		CHECKED - KBC	REVISED -				SHEET NO. 25
							CONTRACT NO. 68895
							ILLINOIS FED. AID PROJECT



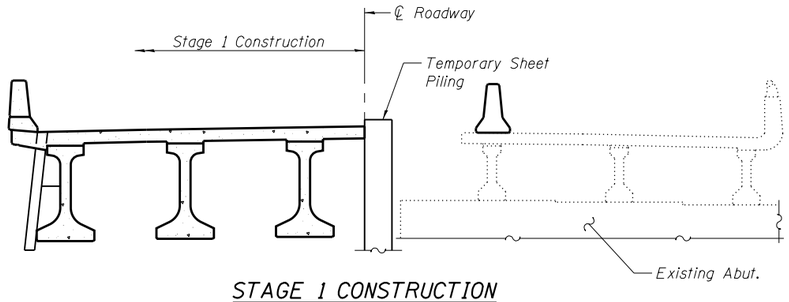
STAGE 1 REMOVAL

(Looking East)



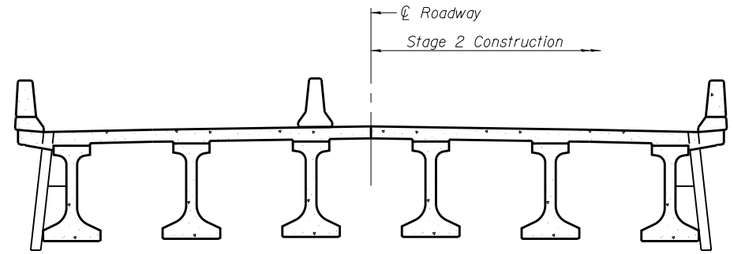
STAGE 2 REMOVAL

(Looking East)



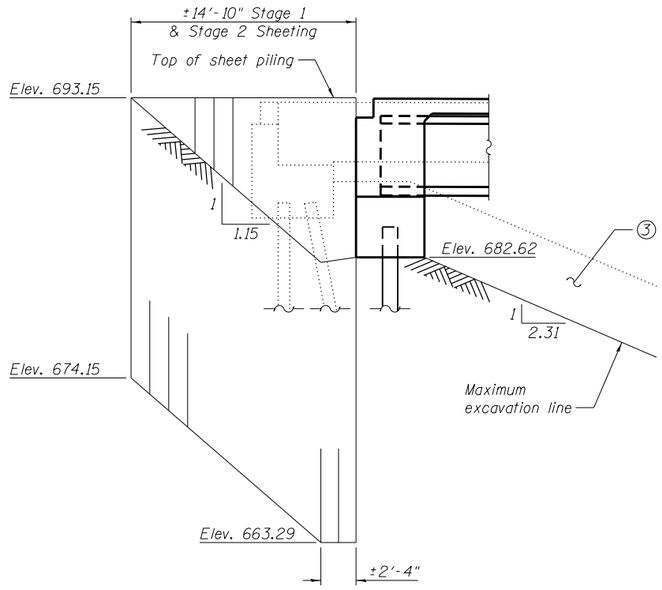
STAGE 1 CONSTRUCTION

(Looking East)



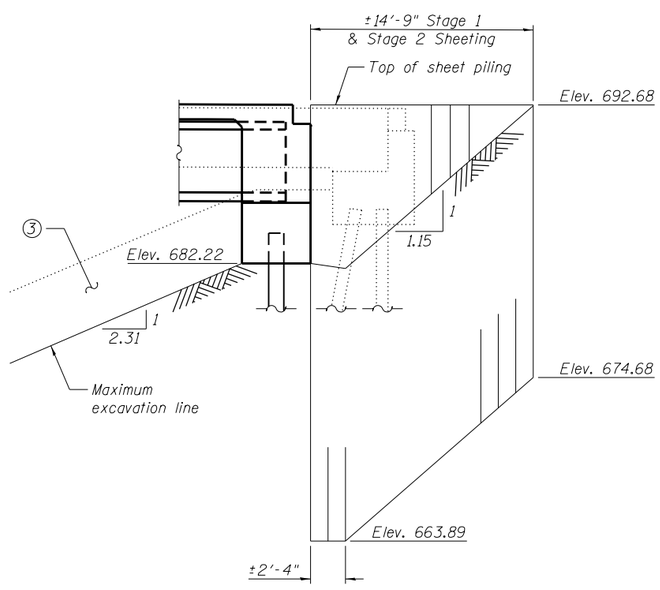
STAGE 2 CONSTRUCTION

(Looking East)



WEST ABUTMENT

(Minimum Section Modulus = 21 in³/ft)



EAST ABUTMENT

(Minimum Section Modulus = 21 in³/ft)

TEMPORARY SHEET PILING DETAIL

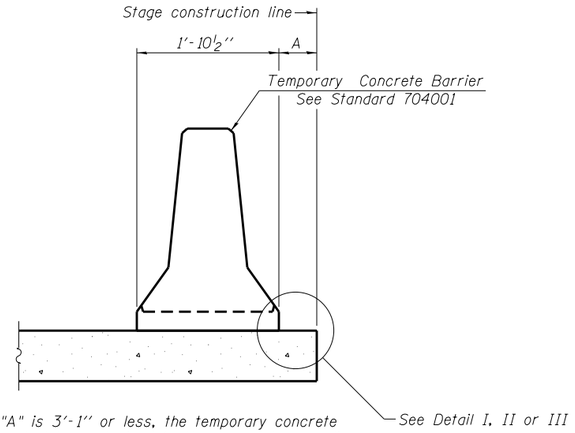
Notes:

1. Existing piers shall only be removed to a height that allows adequate clearance for construction of the Stage 1 superstructure. The remainder of the pier shall be removed during Stage 2 removal.
2. For details of Temporary Concrete Barrier, see sheet 4 of 32. See roadway plans for quantity of Temporary Concrete Barrier and related traffic control.
3. Slope between existing and proposed embankment during Stage 1 Construction. Slope not to exceed 1:1 (V:H).
4. If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
5. Remove the existing abutments as necessary to install Temporary Sheet Piling. The existing abutments shall be used to support the soil between the Temporary Sheet Piling and Stage 1 removal line. The remainder of the abutments shall be removed during Stage 2 removal.

FILE NAME = H:\P\29848\WD 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\0888032-68895-003-Stage Construction Details.dgn

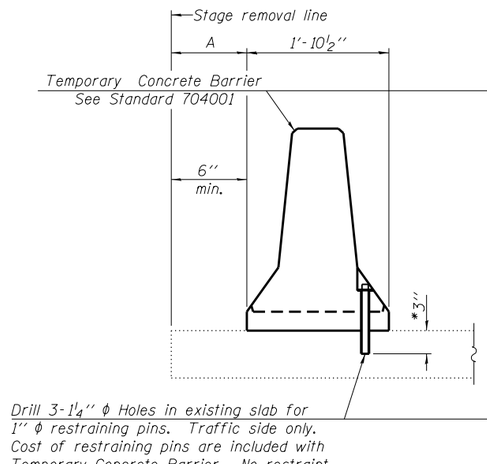
OATES ASSOCIATES ILLINOIS DESIGN FIRM LICENSE NO: 184.001115	USER NAME =	DESIGNED - KBC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE CONSTRUCTION DETAILS STRUCTURE NO. 088-0032 SHEET NO. 3 OF 32 SHEETS
	PLOT SCALE =	DRAWN - KBC	REVISED -		
	PLOT DATE = 1/24/2018	CHECKED - SJN	REVISED -		
		CHECKED - SJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	26
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			



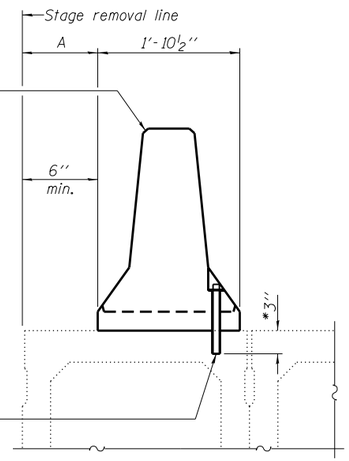
When "A" is 3'-1'' or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



Drill 3-1¼'' ϕ Holes in existing slab for 1'' ϕ restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

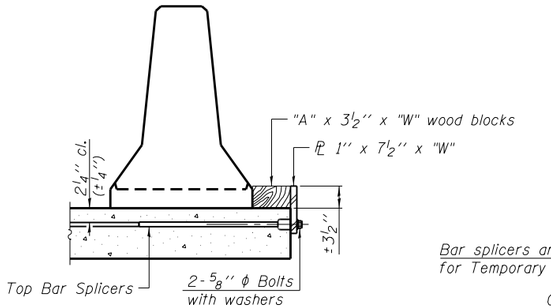
EXISTING SLAB



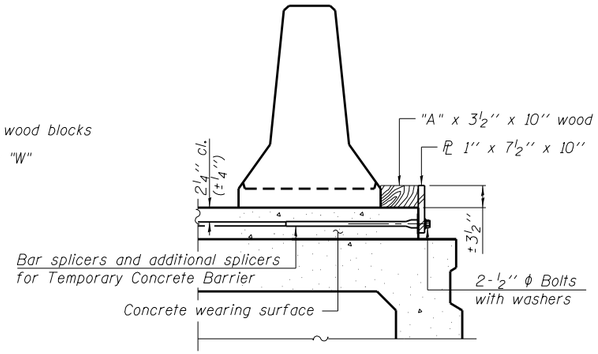
* When hot-mix asphalt wearng surface is present, embedment shall be 3'' plus the wearing surface depth.

EXISTING DECK BEAM

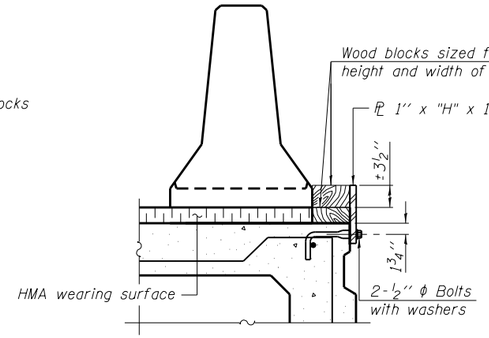
SECTIONS THRU SLAB OR DECK BEAM



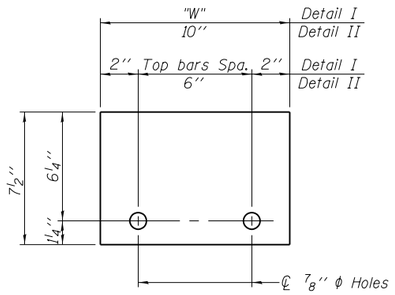
DETAIL I



DETAIL II

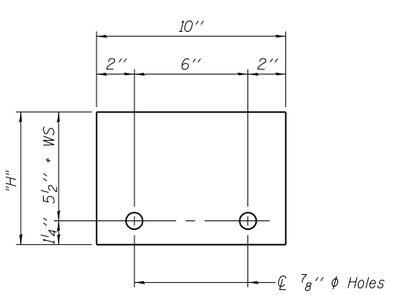


DETAIL III



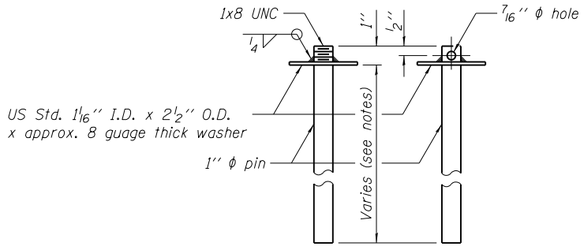
STEEL RETAINER ℄ 1'' x 7½'' x "W"

(Detail I and II)

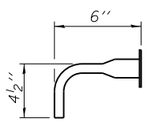


STEEL RETAINER ℄ 1'' x "H" x 10''

(Detail III)



RESTRAINING PIN



BAR SPLICER FOR #4 BAR - DETAIL III

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier.

A retainer assembly shall be located at the approximate ℄ 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 1½'', 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.

R-27

11-22-2016

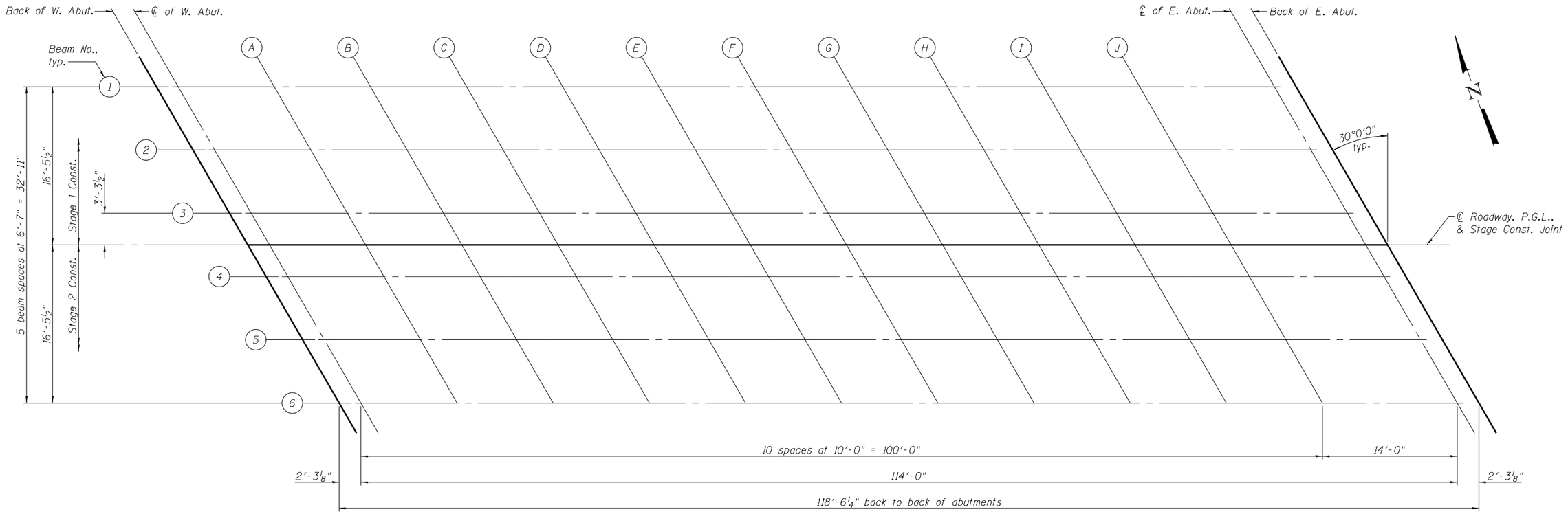
FILE NAME = H:\P_29048\WO 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\088032-68895-004-Temporary Concrete Barrier for Stage Construction.dgn

OATES ASSOCIATES ILLINOIS DESIGN FIRM LICENSE NO: 184.001115	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE = 1/24/2018	CHECKED -	REVISED -

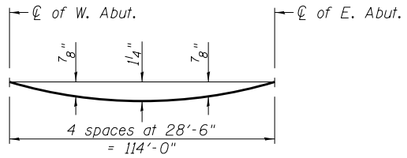
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 088-0032
SHEET NO. 4 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	27
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

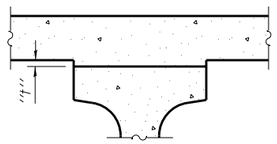


PLAN



DEAD LOAD DEFLECTION DIAGRAM ①

(Includes weight of concrete, excluding beams).



FILLET HEIGHTS ②

① *The above deflections are not to be used in the field if the Engineer is working from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" as shown on sheet 6 of 32.*

② *To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown on sheet 6 of 32, minus slab thickness, equals the fillet heights "t" above top flanges of beams.*

FILE NAME = H:\P\29048\WO 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\088032-68895-005-Top of Slab Elevations.dgn

OATES ASSOCIATES ILLINOIS DESIGN FIRM LICENSE NO: 184.001115	USER NAME =	DESIGNED - SJN	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**TOP OF SLAB ELEVATIONS** **STRUCTURE NO. 088-0032** SHEET NO. 5 OF 32 SHEETS
		CHECKED - KBC	REVISED -		
	PLOT SCALE =	DRAWN - SJN	REVISED -		
	PLOT DATE = 1/24/2018	CHECKED - KBC	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	28
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back of W. Abut.	128+46.24	-16.46	692.85	692.85
℄ of W. Abut.	128+48.50	-16.46	692.85	692.85
A	128+58.50	-16.46	692.81	692.84
B	128+68.50	-16.46	692.78	692.83
C	128+78.50	-16.46	692.75	692.82
D	128+88.50	-16.46	692.71	692.81
E	128+98.50	-16.46	692.68	692.78
F	129+08.50	-16.46	692.64	692.75
G	129+18.50	-16.46	692.61	692.70
H	129+28.50	-16.46	692.57	692.66
I	129+38.50	-16.46	692.53	692.60
J	129+48.50	-16.46	692.50	692.54
℄ of E. Abut.	129+62.50	-16.46	692.45	692.45
Back of E. Abut.	129+64.76	-16.46	692.44	692.44

℄ ROADWAY, P.G.L., & STAGE CONST. JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back of W. Abut.	128+55.74	0.00	693.10	693.10
℄ of W. Abut.	128+58.00	0.00	693.09	693.09
A	128+68.00	0.00	693.06	693.09
B	128+78.00	0.00	693.03	693.08
C	128+88.00	0.00	692.99	693.07
D	128+98.00	0.00	692.96	693.05
E	129+08.00	0.00	692.92	693.03
F	129+18.00	0.00	692.89	692.99
G	129+28.00	0.00	692.85	692.95
H	129+38.00	0.00	692.82	692.90
I	129+48.00	0.00	692.78	692.85
J	129+58.00	0.00	692.74	692.78
℄ of E. Abut.	129+72.00	0.00	692.69	692.69
Back of E. Abut.	129+74.26	0.00	692.68	692.68

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back of W. Abut.	128+65.24	16.46	692.79	692.79
℄ of W. Abut.	128+67.50	16.46	692.78	692.78
A	128+77.50	16.46	692.75	692.78
B	128+87.50	16.46	692.71	692.77
C	128+97.50	16.46	692.68	692.76
D	129+07.50	16.46	692.65	692.74
E	129+17.50	16.46	692.61	692.71
F	129+27.50	16.46	692.57	692.68
G	129+37.50	16.46	692.54	692.64
H	129+47.50	16.46	692.50	692.59
I	129+57.50	16.46	692.46	692.53
J	129+67.50	16.46	692.43	692.47
℄ of E. Abut.	129+81.50	16.46	692.37	692.37
Back of E. Abut.	129+83.76	16.46	692.37	692.37

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back of W. Abut.	128+50.04	-9.88	692.97	692.97
℄ of W. Abut.	128+52.30	-9.88	692.96	692.96
A	128+62.30	-9.88	692.93	692.96
B	128+72.30	-9.88	692.89	692.95
C	128+82.30	-9.88	692.86	692.94
D	128+92.30	-9.88	692.82	692.92
E	129+02.30	-9.88	692.79	692.89
F	129+12.30	-9.88	692.75	692.86
G	129+22.30	-9.88	692.72	692.82
H	129+32.30	-9.88	692.68	692.77
I	129+42.30	-9.88	692.65	692.71
J	129+52.30	-9.88	692.61	692.65
℄ of E. Abut.	129+66.30	-9.88	692.56	692.56
Back of E. Abut.	129+68.56	-9.88	692.55	692.55

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back of W. Abut.	128+57.64	3.29	693.04	693.04
℄ of W. Abut.	128+59.90	3.29	693.04	693.04
A	128+69.90	3.29	693.00	693.03
B	128+79.90	3.29	692.97	693.03
C	128+89.90	3.29	692.94	693.01
D	128+99.90	3.29	692.90	692.99
E	129+09.90	3.29	692.87	692.97
F	129+19.90	3.29	692.83	692.93
G	129+29.90	3.29	692.79	692.89
H	129+39.90	3.29	692.76	692.84
I	129+49.90	3.29	692.72	692.79
J	129+59.90	3.29	692.68	692.72
℄ of E. Abut.	129+73.90	3.29	692.63	692.63
Back of E. Abut.	129+76.16	3.29	692.62	692.62

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back of W. Abut.	128+53.84	-3.29	693.06	693.06
℄ of W. Abut.	128+56.10	-3.29	693.05	693.05
A	128+66.10	-3.29	693.02	693.05
B	128+76.10	-3.29	692.98	693.04
C	128+86.10	-3.29	692.95	693.03
D	128+96.10	-3.29	692.91	693.01
E	129+06.10	-3.29	692.88	692.98
F	129+16.10	-3.29	692.84	692.95
G	129+26.10	-3.29	692.81	692.91
H	129+36.10	-3.29	692.77	692.86
I	129+46.10	-3.29	692.74	692.80
J	129+56.10	-3.29	692.70	692.74
℄ of E. Abut.	129+70.10	-3.29	692.65	692.65
Back of E. Abut.	129+72.36	-3.29	692.64	692.64

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Back of W. Abut.	128+61.44	9.88	692.93	692.93
℄ of W. Abut.	128+63.70	9.88	692.92	692.92
A	128+73.70	9.88	692.89	692.92
B	128+83.70	9.88	692.85	692.91
C	128+93.70	9.88	692.82	692.90
D	129+03.70	9.88	692.78	692.88
E	129+13.70	9.88	692.75	692.85
F	129+23.70	9.88	692.71	692.82
G	129+33.70	9.88	692.68	692.78
H	129+43.70	9.88	692.64	692.73
I	129+53.70	9.88	692.60	692.67
J	129+63.70	9.88	692.57	692.61
℄ of E. Abut.	129+77.70	9.88	692.51	692.51
Back of E. Abut.	129+79.96	9.88	692.51	692.51

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ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 088-0032
SHEET NO. 6 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	29
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

NORTH EDGE OF SHOULDER

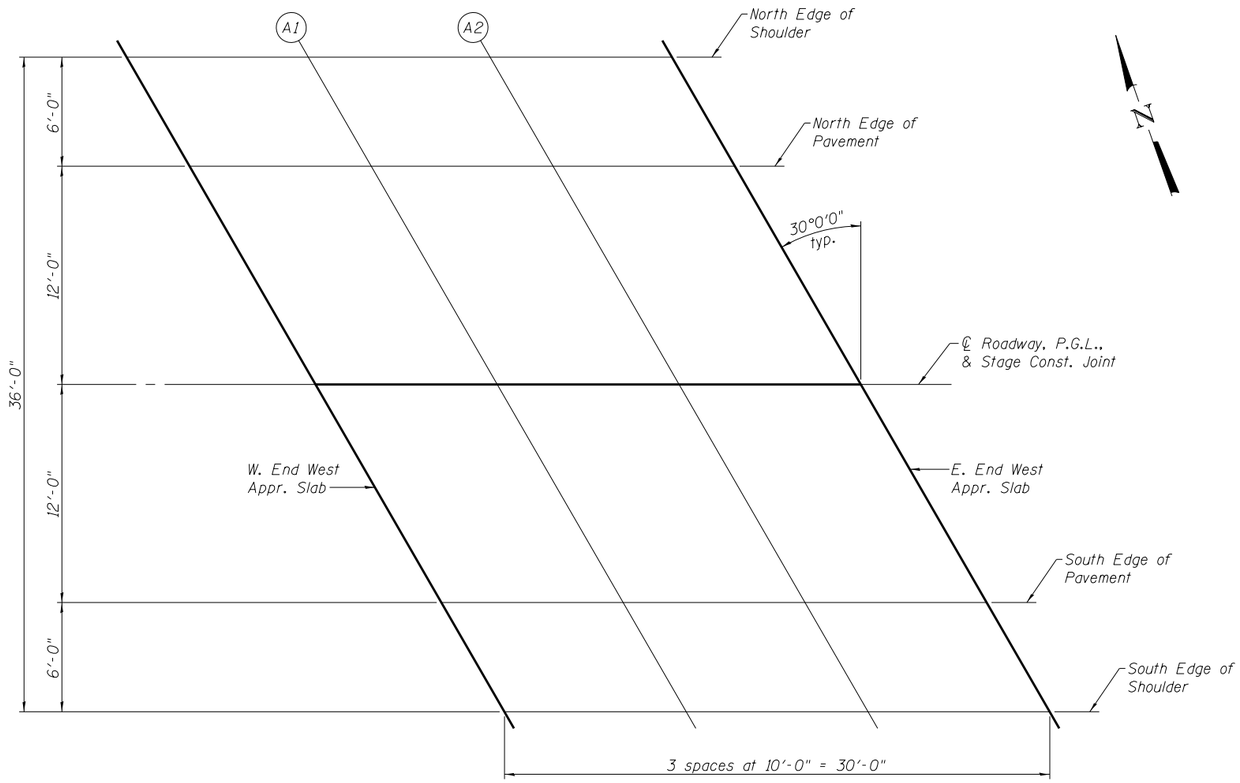
Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	128+16.50	-18.00	692.92
A1	128+26.50	-18.00	692.88
A2	128+36.50	-18.00	692.85
E. End West Appr. Slab	128+46.50	-18.00	692.82

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	128+19.97	-12.00	693.03
A1	128+29.97	-12.00	693.00
A2	128+39.97	-12.00	692.97
E. End West Appr. Slab	128+49.97	-12.00	692.93

℄ ROADWAY, P.G.L., & STAGE CONST. JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	128+26.89	0.00	693.20
A1	128+36.89	0.00	693.16
A2	128+46.89	0.00	693.13
E. End West Appr. Slab	128+56.89	0.00	693.10



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	128+33.82	12.00	692.99
A1	128+43.82	12.00	692.95
A2	128+53.82	12.00	692.92
E. End West Appr. Slab	128+63.82	12.00	692.89

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	128+37.29	18.00	692.85
A1	128+47.29	18.00	692.82
A2	128+57.29	18.00	692.78
E. End West Appr. Slab	128+67.29	18.00	692.75

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 088-0032
SHEET NO. 7 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	30
		CONTRACT NO. 68895		
	ILLINOIS	FED. AID PROJECT		

NORTH EDGE OF SHOULDER

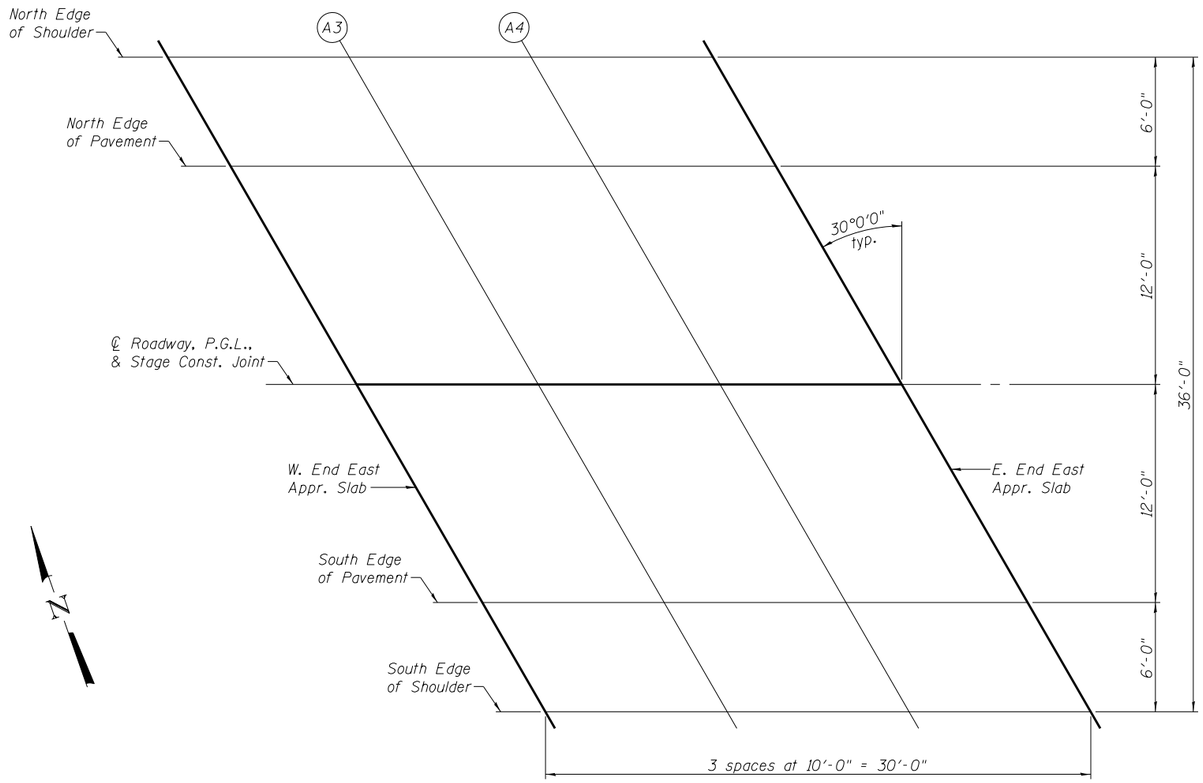
Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	129+62.71	-18.00	692.41
A3	129+72.71	-18.00	692.38
A4	129+82.71	-18.00	692.34
E. End East Appr. Slab	129+92.71	-18.00	692.30

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	129+66.18	-12.00	692.53
A3	129+76.18	-12.00	692.49
A4	129+86.18	-12.00	692.45
E. End East Appr. Slab	129+96.18	-12.00	692.41

℄ ROADWAY, P.G.L., & STAGE CONST. JOINT

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	129+73.11	0.00	692.69
A3	129+83.11	0.00	692.65
A4	129+93.11	0.00	692.61
E. End East Appr. Slab	130+03.11	0.00	692.57



PLAN

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	129+80.03	12.00	692.47
A3	129+90.03	12.00	692.43
A4	130+00.03	12.00	692.40
E. End East Appr. Slab	130+10.03	12.00	692.36

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Slab	129+83.50	18.00	692.33
A3	129+93.50	18.00	692.30
A4	130+03.50	18.00	692.26
E. End East Appr. Slab	130+13.50	18.00	692.22

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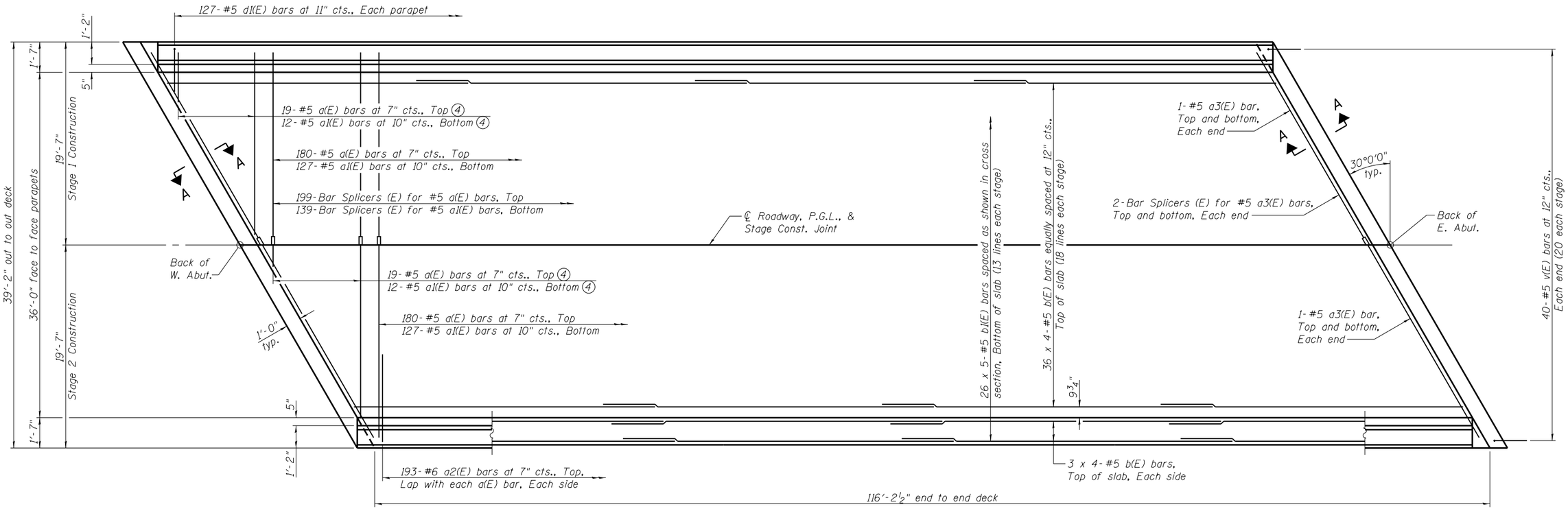
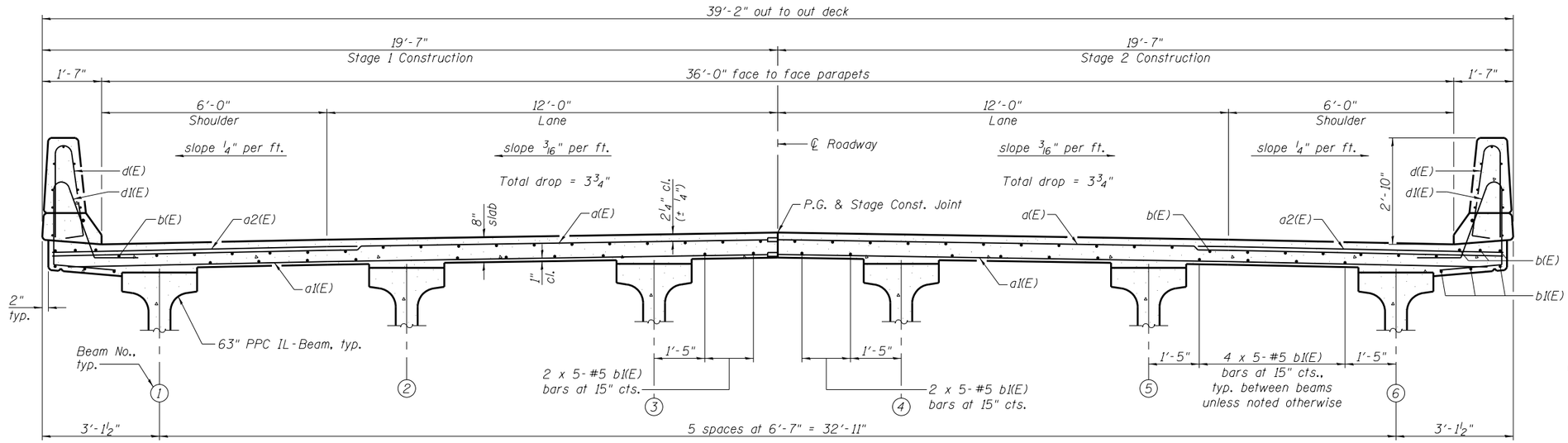
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 088-0032
SHEET NO. 8 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	31
		CONTRACT NO. 68895		
	ILLINOIS	FED. AID PROJECT		



PLAN



CROSS SECTION

(Looking East)

MINIMUM BAR LAP

#5 bar = 3'-6"

Notes:

1. For Section A-A, see sheet 11 of 32.
2. For superstructure details, bar details, parapet reinforcement, and Bill of Material, see sheet 10 of 32.
3. Bars indicated thus 36 x 4-#5 etc. indicates 36 lines of bars with 4 lengths per line.
4. Order a(E) and a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.
5. For details of Bar Splicers, see sheet 21 of 32.

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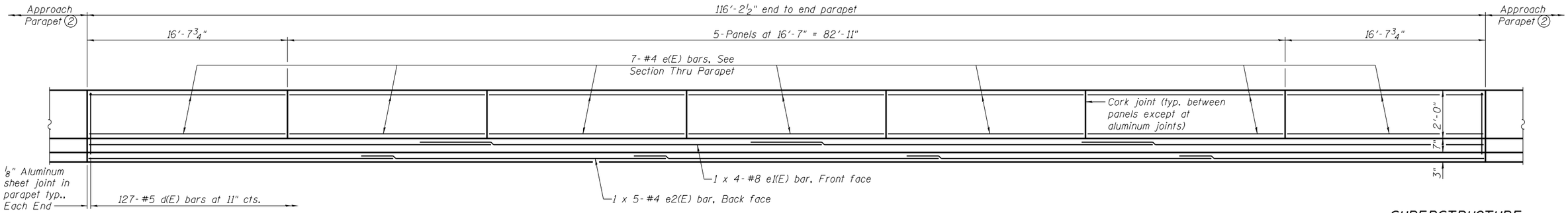
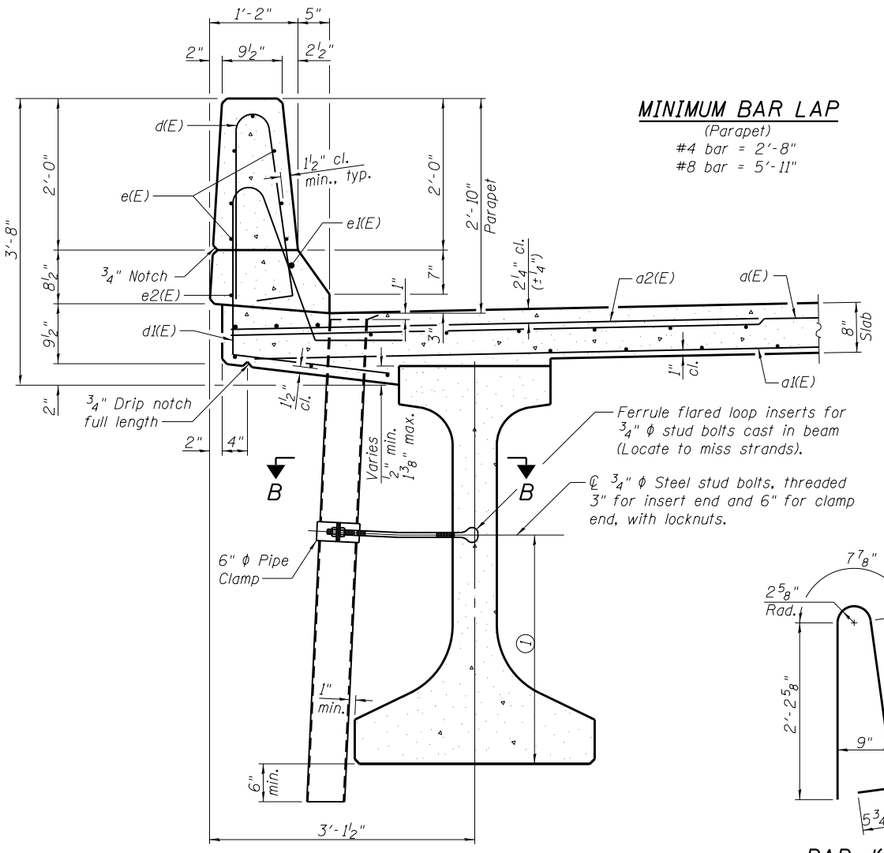
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	32
		CONTRACT NO. 68895		
		ILLINOIS FED. AID PROJECT		



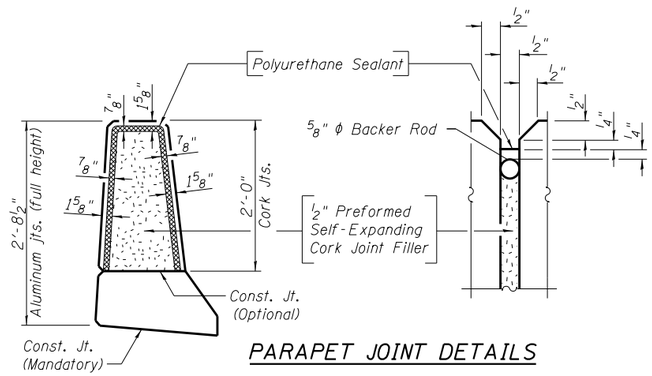
INSIDE ELEVATION OF PARAPET



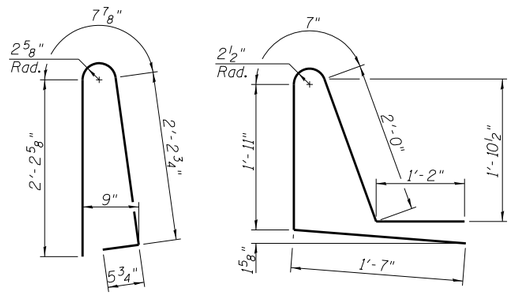
SECTION THRU PARAPET

MINIMUM BAR LAP

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

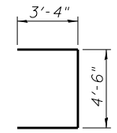


PARAPET JOINT DETAILS

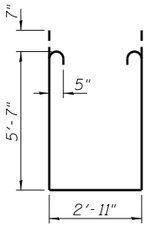


BAR d(E)

BAR d1(E)



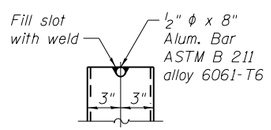
BAR s(E)



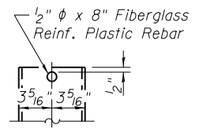
BAR s1(E)

SUPERSTRUCTURE BILL OF MATERIAL

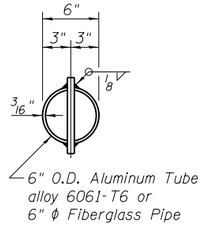
Bar	No.	Size	Length	Shape
a(E)	398	#5	19'-1"	
a1(E)	278	#5	18'-9"	
a2(E)	386	#6	6'-6"	
a3(E)	8	#5	22'-0"	
b(E)	168	#5	31'-7"	
b1(E)	130	#5	26'-0"	
d(E)	254	#5	5'-7"	
d1(E)	254	#5	7'-3"	
e(E)	98	#4	16'-3"	
e1(E)	8	#8	33'-5"	
e2(E)	10	#4	25'-4"	
m(E)	28	#6	22'-2"	
m1(E)	40	#6	6'-1"	
m2(E)	20	#6	2'-10"	
m3(E)	8	#6	3'-6"	
m4(E)	4	#6	1'-4"	
m5(E)	36	#5	4'-0"	
s(E)	56	#5	11'-2"	
s1(E)	56	#5	15'-3"	
v(E)	80	#5	3'-1"	
Concrete Superstructure		Cu. Yd.	217.0	
Reinforcement Bars, Epoxy Coated		Pound	35,100	



ALUMINUM TUBE

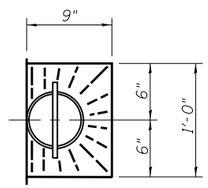


FIBERGLASS PIPE

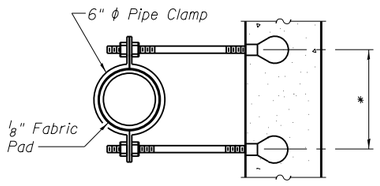


TOP PLAN

(Showing Aluminum Tube)

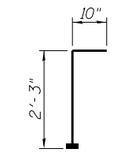


TOP PLAN



SECTION B-B

*Dimension as required by Pipe Clamp



BAR v(E)

(Headed)

Notes:

1. For ferrule flared loop insert locations, see sheet 15 of 32.
2. For Approach Parapet details, see sheet 13 of 32.
3. Bars indicated thus 1 x 4-#8 etc. indicates 1 line of bars with 4 lengths per line.
4. Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
5. The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.
6. The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
7. The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device and inserts included with Floor Drains.
8. 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.
9. The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type S, Grade NS, Class 25. Use T with a 5/8" backer rod.
10. The 1/2" Preformed Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Standard Specifications. Cost included with Concrete Superstructure.
11. Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.

FILE NAME = H:\P\29048\WO 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\088032-68895-018-Superstructure Details.dgn

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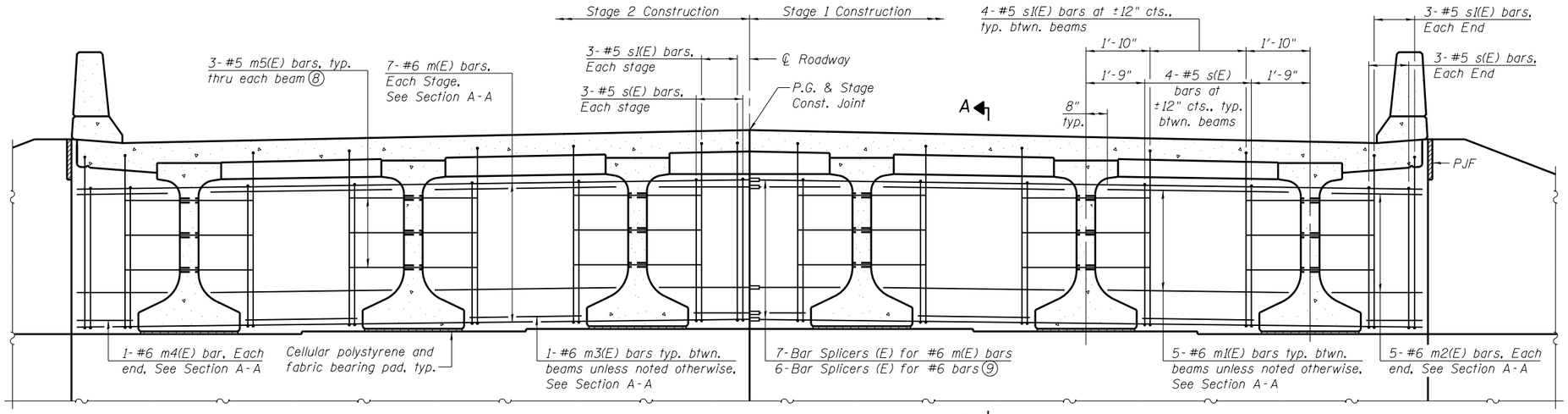
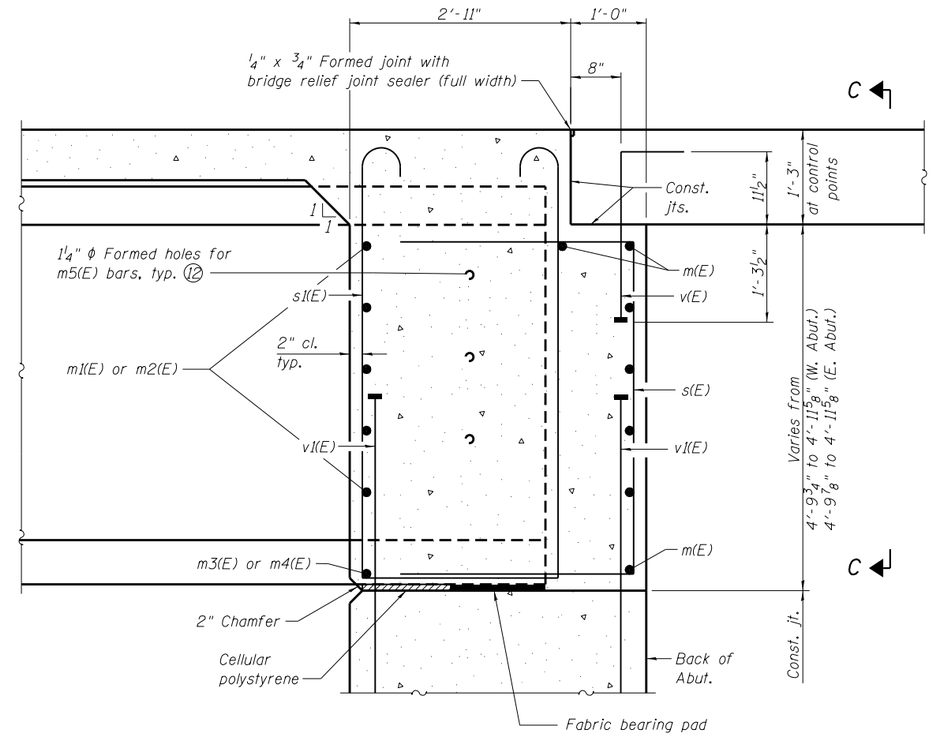
	PLOT DATE = 1/24/2018	CHECKED - SJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	33
		CONTRACT NO. 68895		
		ILLINOIS FED. AID PROJECT		



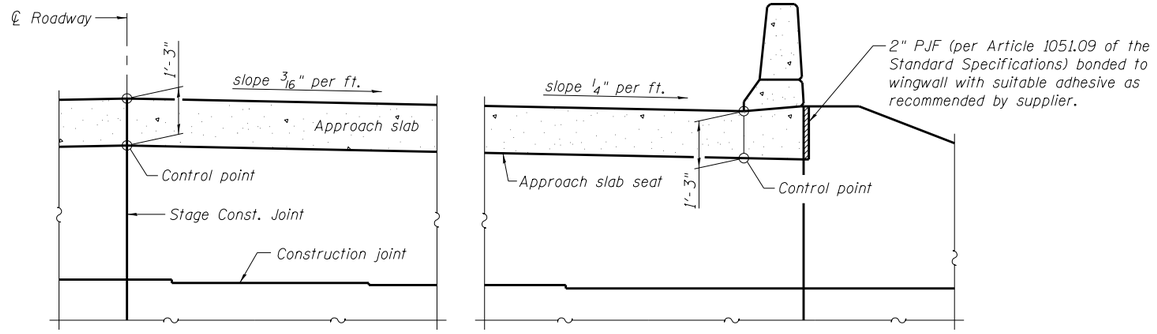
DIAPHRAGM AT ABUTMENT

(Looking West)

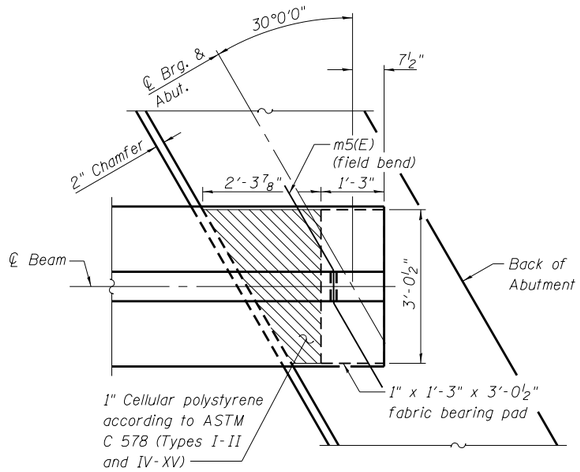


SECTION A-A

(at Rt. L's)



SECTION C-C



PLAN AT ABUTMENT

(Showing bottom flange of beam)

CONTROL POINT ELEVATIONS (11)

	South Parapet	℄ Roadway	North Parapet
W. Abut.	691.50	691.85	691.57
E. Abut.	691.08	691.43	691.16

Notes:

1. Reinforcement bars in diaphragm are billed with superstructure on sheet 10 of 32.
2. Concrete in diaphragm is included with Concrete Superstructure on sheet 10 of 32.
3. For details of bars s(E), s1(E) and v(E) see sheet 10 of 32.
4. The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
5. The approach slab seat shall have a constant slope determined from the control points shown.
6. Cost of cellular polystyrene is included with Concrete Superstructure.
7. Beams shall be braced for stability during erection and remain braced until deck is poured and cured.
8. Secure bars such that they remain centered and level during pouring of the concrete.
9. Use Bar Splicers in place of m1(E) and m3(E) bars between beam and stage construction joint. Cut Bar Splicers as required to provide adequate clearance to beam.
10. For details of Bar Splicers, see sheet 21 of 32.
11. Control point elevations are taken at top of approach slab seat as shown in Section B-B.
12. For hole locations, see sheet 15 of 32.

FILE NAME = H:\P\29048\WD 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\08800032-68895-011-Diaphragm Details.dgn

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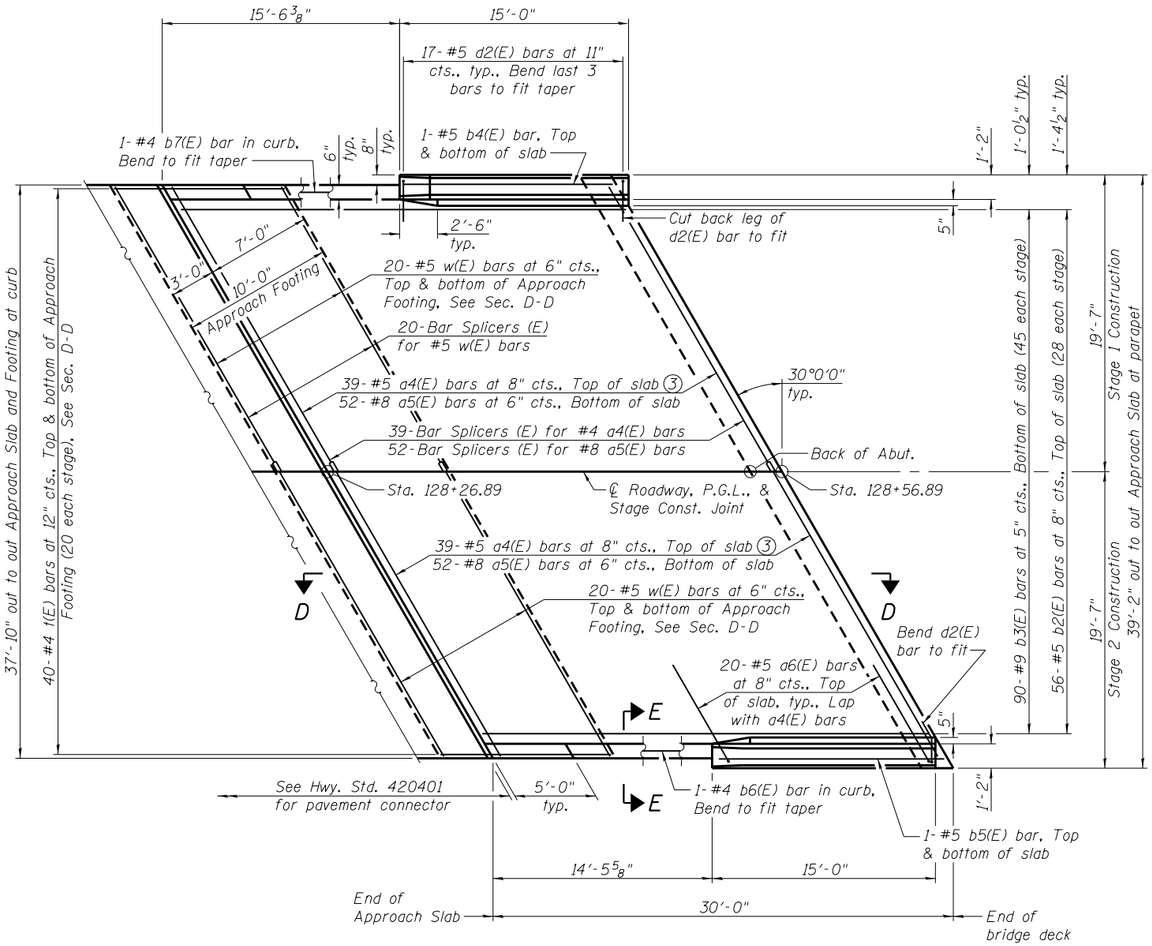
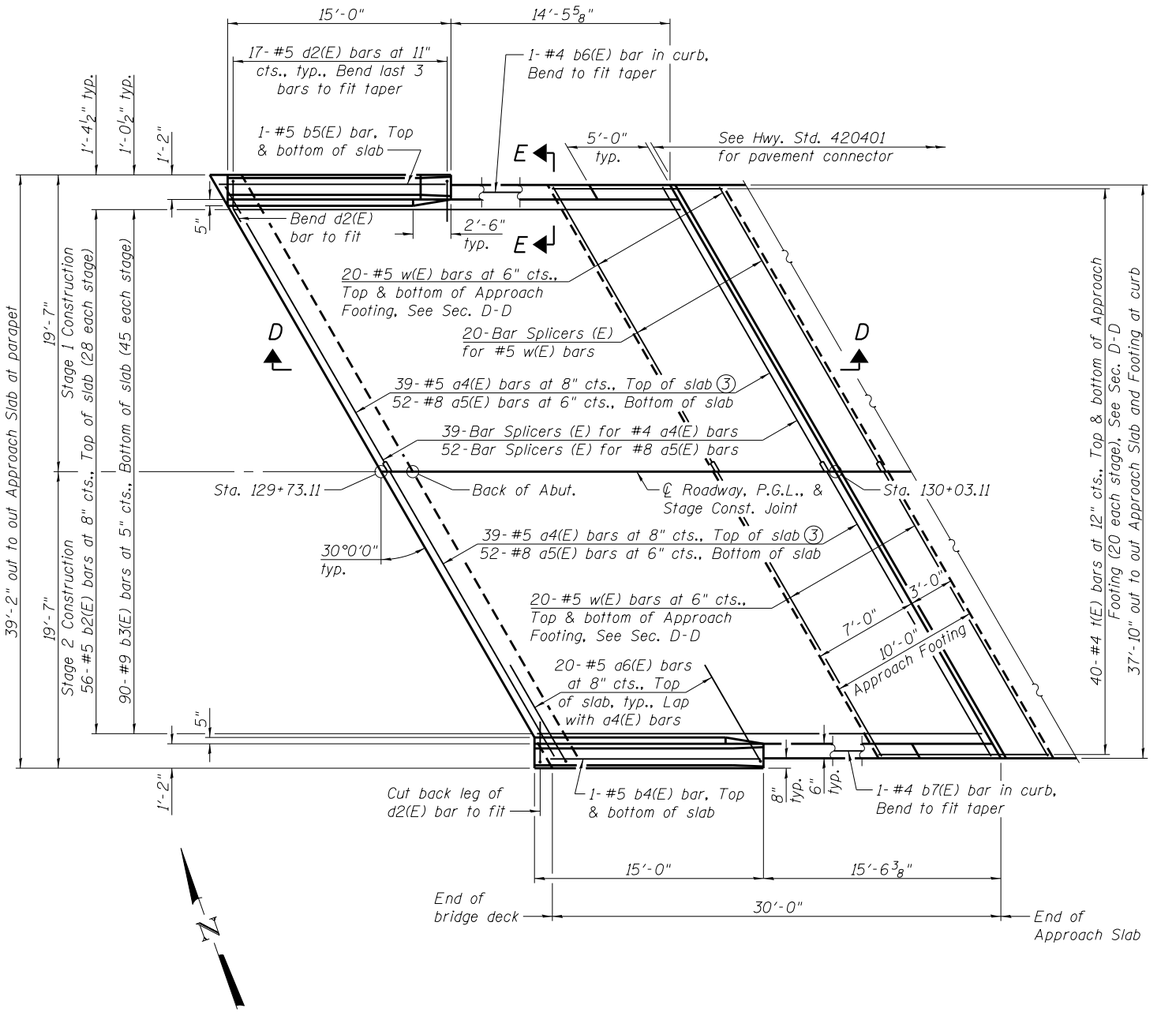
		CHECKED - KBC	REVISED -		
	PLOT SCALE =	DRAWN - KBC	REVISED -		
	PLOT DATE = 1/24/2018	CHECKED - SJN	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	34
		CONTRACT NO. 68895		
		ILLINOIS FED. AID PROJECT		



WEST APPROACH PLAN



EAST APPROACH PLAN

Notes:
1. For Section D-D and View E-E, see sheet 13 of 32.
2. For details of Bar Splicers, see sheet 21 of 32.
3. Tilt #5 a4(E) bars as necessary to fit curb.

FILE NAME = M:\PV29048\WO 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\088032-68895-012-Bridge Approach Slab Details.dgn

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PLOT SCALE =	DRAWN - KBC	REVISED -
PLOT DATE = 1/24/2018	CHECKED - SJN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 088-0032
SHEET NO. 12 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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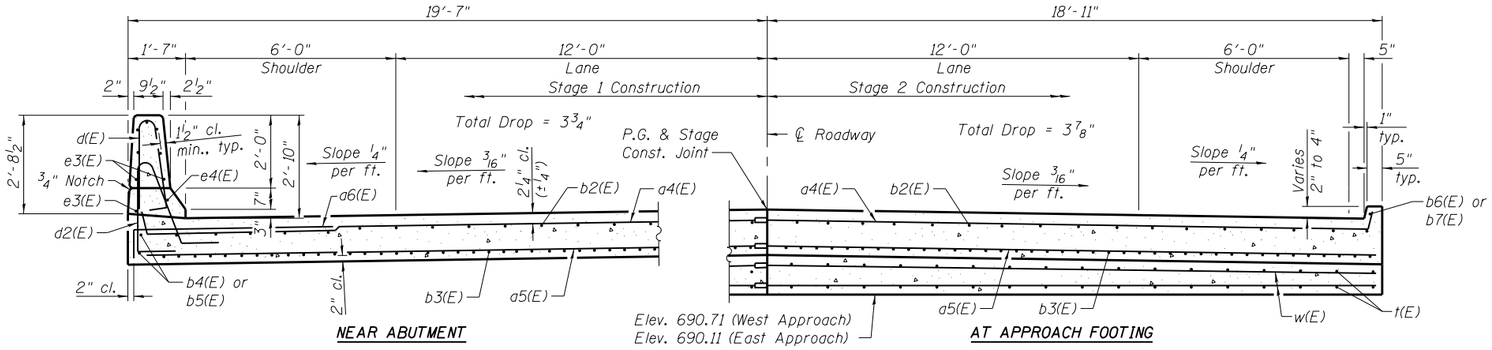
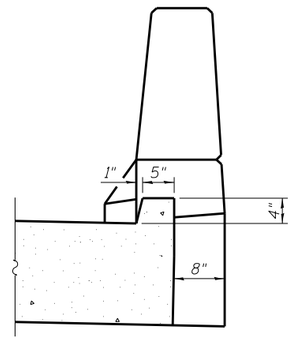
		CONTRACT NO. 68895		
		ILLINOIS FED. AID PROJECT		

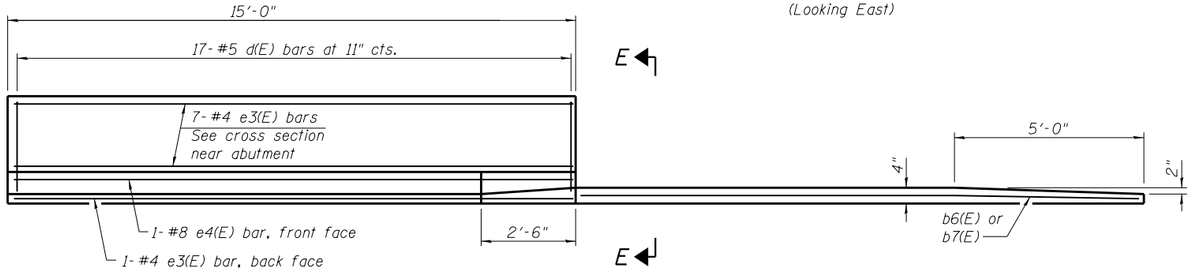


CROSS SECTION

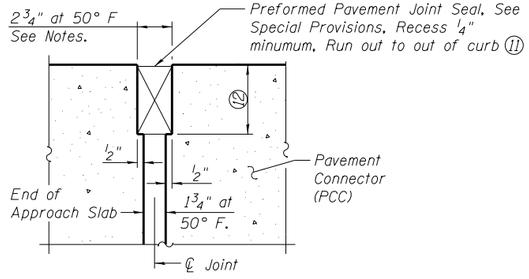
(See Plan for dimensions not shown)
(Looking East)



VIEW E-E



INSIDE ELEVATION OF PARAPET AND CURB

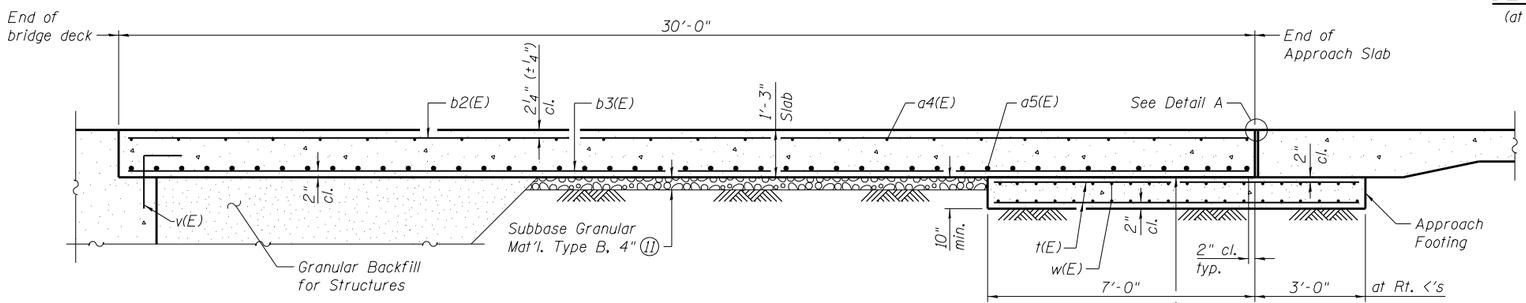


DETAIL A

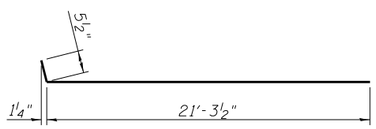
(at Rt. <'s)

TWO APPROACHES BILL OF MATERIAL

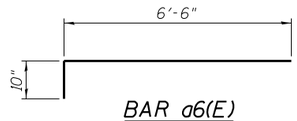
	Bar	No.	Size	Length	Shape
	a4(E)	156	#5	21'-9"	
	a5(E)	208	#8	21'-5"	
	a6(E)	80	#5	7'-4"	
	b2(E)	112	#5	29'-8"	
	b3(E)	180	#9	29'-8"	
	b4(E)	4	#5	13'-10"	
	b5(E)	4	#5	15'-5"	
	b6(E)	2	#4	14'-3"	
	b7(E)	2	#4	15'-0"	
	d(E)	68	#5	5'-7"	
	d2(E)	68	#5	7'-8"	
	e3(E)	32	#4	14'-8"	
	e4(E)	4	#8	14'-8"	
	f(E)	160	#4	11'-2"	
	w(E)	160	#5	21'-6"	
	Concrete Structures			Cu. Yd.	34.3
	Concrete Superstructure			Cu. Yd.	6.7
	Concrete Superstructure (Approach Slab)			Cu. Yd.	107.6
(13)	Reinforcement Bars, Epoxy Coated			Pound	44,020



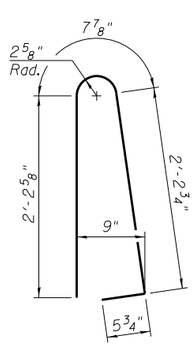
SECTION D-D



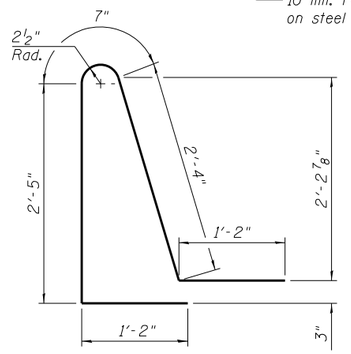
BAR a4(E)



BAR a6(E)



BAR d(E)



BAR d2(E)

Notes:

1. The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach pavement.
2. Parapet concrete shall be paid for as Concrete Superstructure.
3. Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
4. Approach footing concrete shall be paid for as Concrete Structures.
5. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
6. For v(E) bar details, see sheet 10 of 32.
7. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
8. For details of Bar Splicers, see sheet 21 of 32.
9. Cost of excavation for approach footing included with Concrete Structures.
10. For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 32.
11. Cost included with Concrete Superstructure (Approach Slab).
12. Dimension per manufacturer recommendations.
13. Calculated weight of Reinforcement Bars, Epoxy Coated = 39,240 (Superstructure) 4,780 (Substructure)

FILE NAME = H:\PV\21048\WO 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\0880032-68895-013-Bridge Approach Slab Details.dgn

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PLOT DATE = 1/24/2018	CHECKED - SJN	REVISED -	

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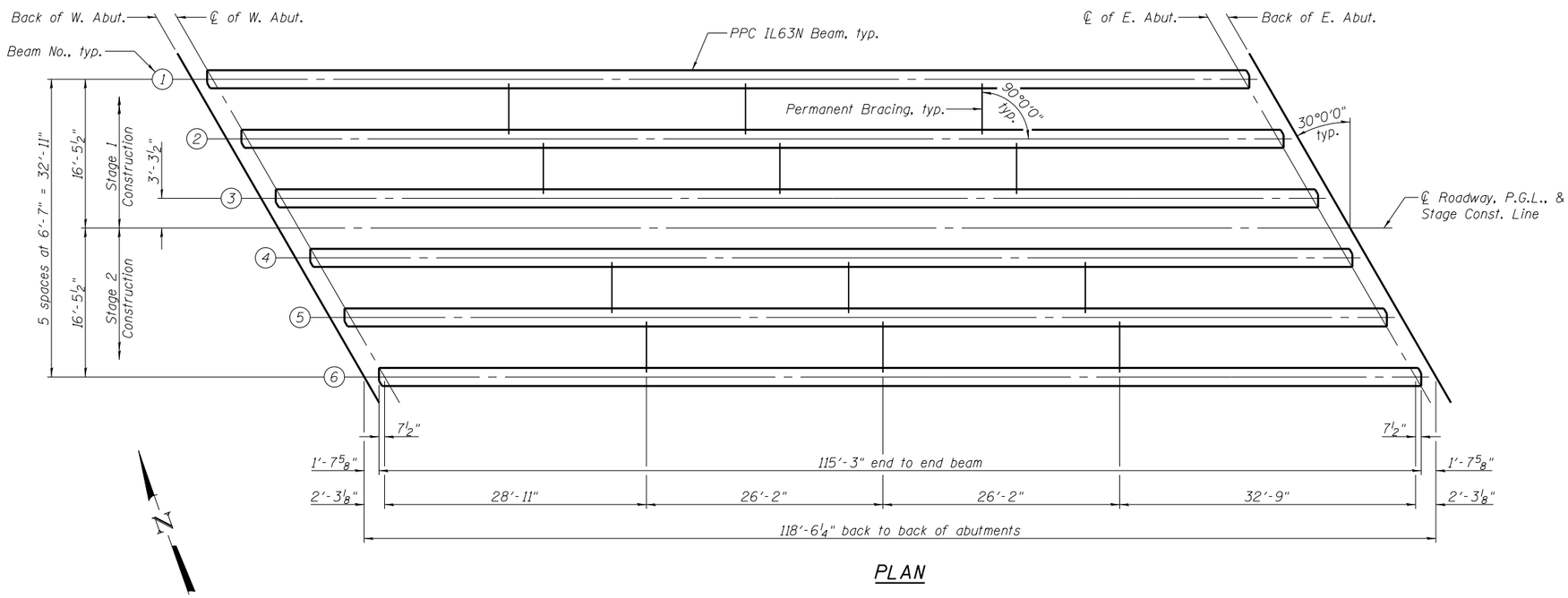
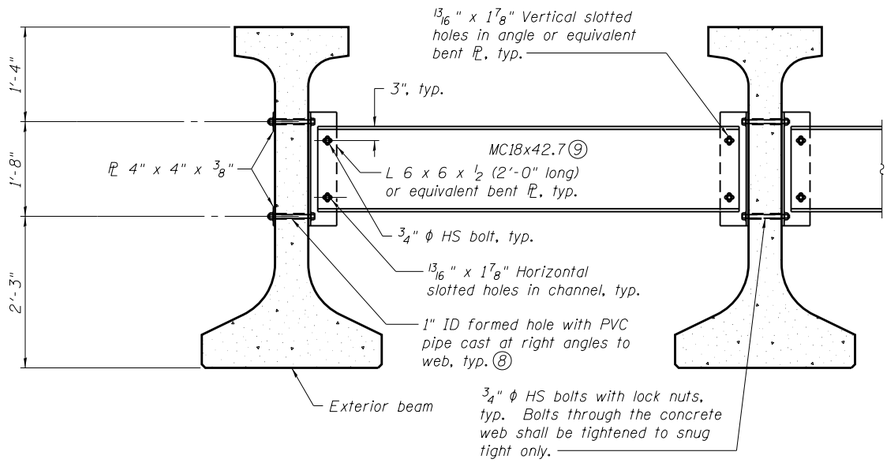
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 088-0032
SHEET NO. 13 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	36
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			



PLAN



PERMANENT BRACING DETAILS

(12 Required)

INTERIOR BEAM MOMENT TABLE

		0.5 Span
I	(in^4)	441,689
I'	(in^4)	949,474
S_b	(in^3)	17,294
S_b'	(in^3)	24,446
S_t	(in^3)	11,791
S_t'	(in^3)	39,299
$DC1$	($k/'$)	1.653
M_{DC1}	('k)	2,684.7
$DC2$	($k/'$)	0.150
M_{DC2}	('k)	243.6
DW	($k/'$)	0.300
M_{DW}	('k)	487.2
$LLDF$		0.574
M_{L+IM}	('k)	1,951.0

INTERIOR BEAM REACTION TABLE

		Abut.
$LLDF$		0.713
OCF		1.075
R_{DC1}	(k)	94.2
R_{DC2}	(k)	8.6
R_{DW}	(k)	17.1
R_{L}	(k)	78.7
R_{IM}	(k)	16.7
R_{Total}	(k)	215.3

I: Non-composite moment of inertia of beam section ($in.^4$).
I': Composite moment of inertia of beam section ($in.^4$).
S_b: Non-composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_b': Composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_t: Non-composite section modulus for the top fiber of the prestressed beam ($in.^3$).
S_t': Composite section modulus for the top fiber of the prestressed beam ($in.^3$).
$DC1$: Un-factored non-composite dead load (kips/ft.).
M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
$DC2$: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft).
M_{L+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
$LLDF$: Live Load Distribution Factor for Moment or Shear.
OCF: Obtuse Correction Factor.

Notes:
1. All material for bracing shall be hot dipped galvanized according to AASHTO M111 unless otherwise noted.
2. Two hardened washers are required for each set of oversized holes.
3. All holes shall be $^{15}/_{16}$" ϕ unless otherwise noted.
4. $^{5}/_{16}$" x 3" x 3" plate washers are required over all slotted holes.
5. All bolts shall be galvanized according to AASHTO M232.
6. Bracing shall be installed as beams are erected and tightened as soon as possible during erection.
7. Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Beams, IL63N.
8. Fabricator shall locate to miss strands within permissible tolerances.
9. Alternate MC18x45.8 channels are permitted to facilitate material acquisition.

FILE NAME = H:\P29848\WO 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\0888032-68895-B14-Framing Plan.dgn

OATES ASSOCIATES ILLINOIS DESIGN FIRM LICENSE NO: 184.001115	USER NAME =	DESIGNED - SJN/JAD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FRAMING PLAN STRUCTURE NO. 088-0032	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - KBC	REVISED -			643	14-BR-3	STARK	77	37
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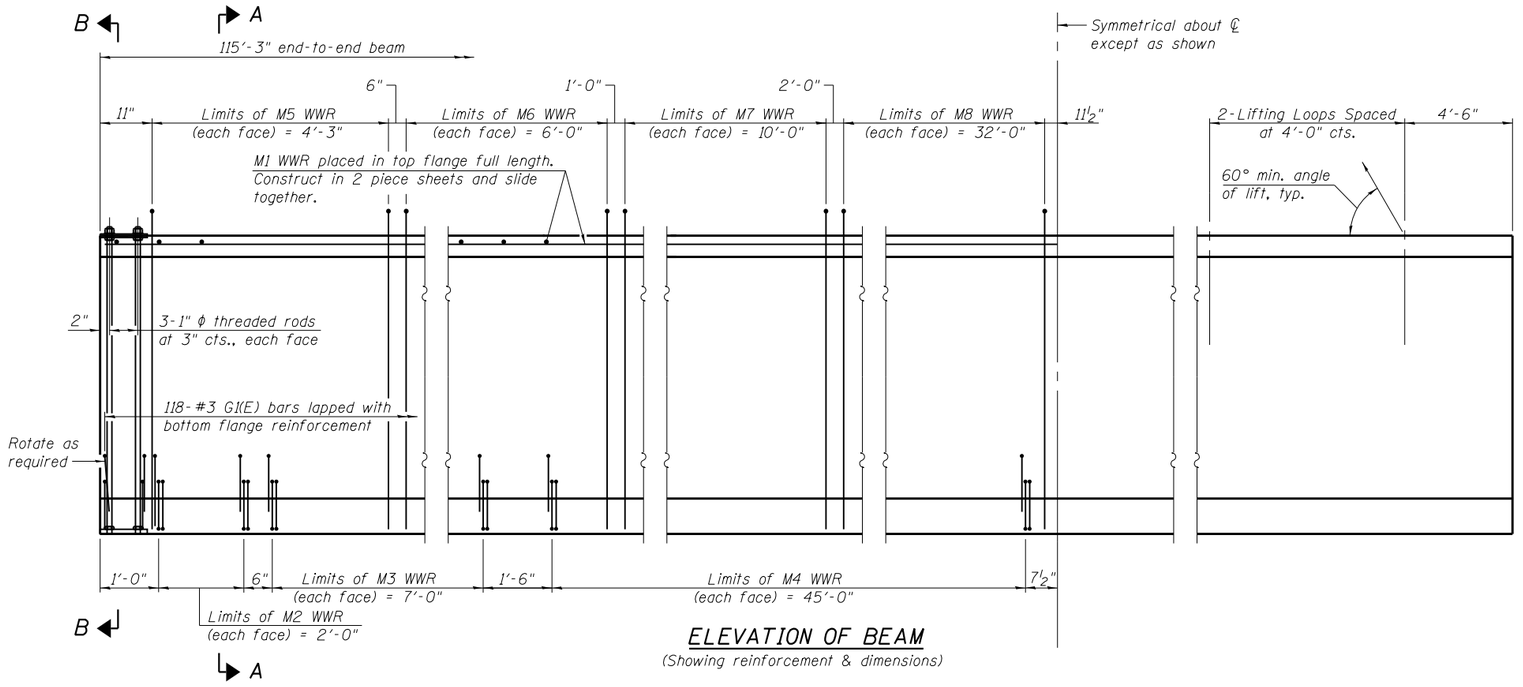
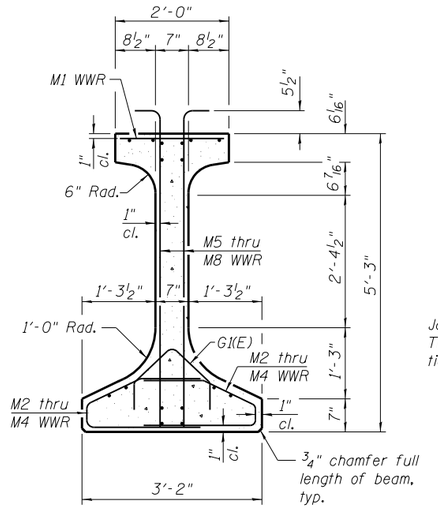
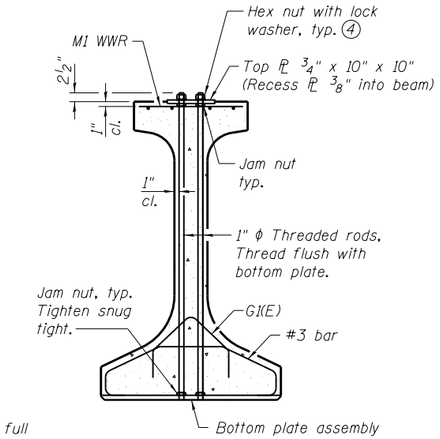
	PLOT DATE = 1/24/2018	CHECKED - SJN	REVISED -		SHEET NO. 14 OF 32 SHEETS			ILLINOIS	FED. AID PROJECT	



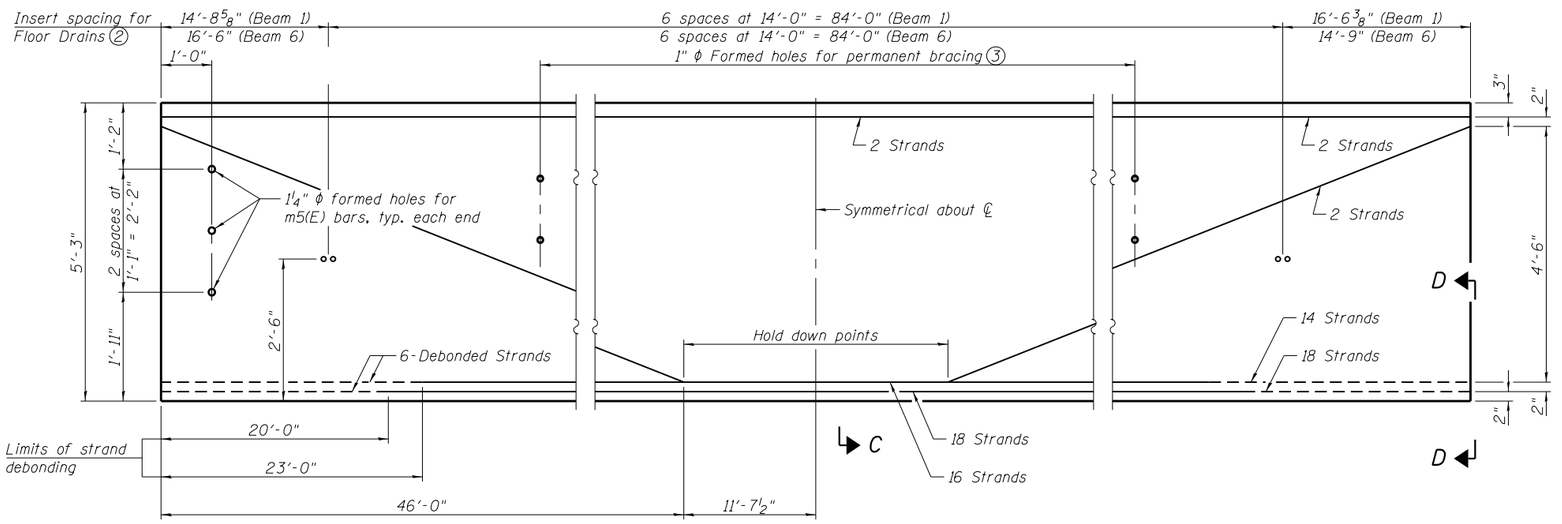
ELEVATION OF BEAM
(Showing reinforcement & dimensions)



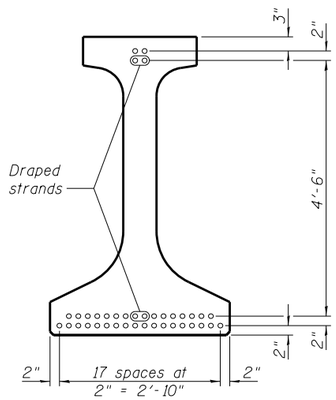
SECTION A-A



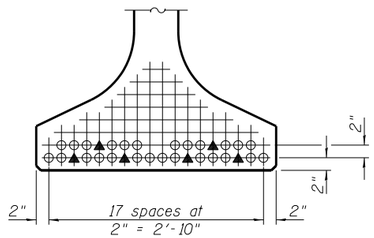
SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C
(36-0.6" ϕ 270 ksi strands)



VIEW D-D

○ Fully bonded strand

▲ Partially debonded strand

Note:
1. See sheet 16 of 32 for additional details and Bill of Material.
2. Locate inserts to miss strands.
3. For number and location of holes, see sheet 14 of 32.
4. Only tighten sufficiently to compress lock washers.

FILE NAME = H:\P\21848\W0 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\088032-68895-015-IL63N Beam.dgn

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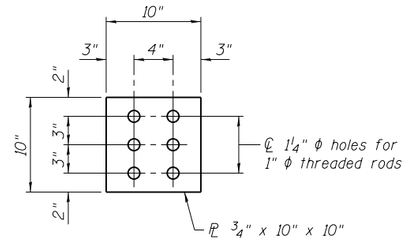
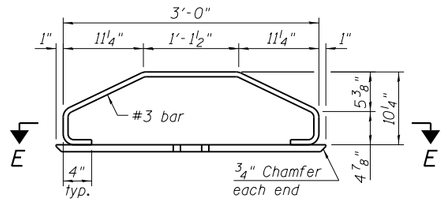
DEPARTMENT OF TRANSPORTATION

IL63N BEAM
STRUCTURE NO. 088-0032
SHEET NO. 15 OF 32 SHEETS

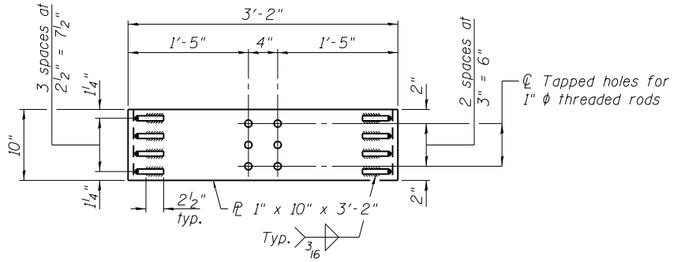
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	38
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			



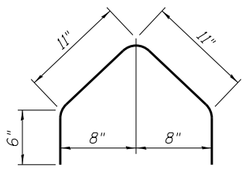
PLAN - TOP PLATE



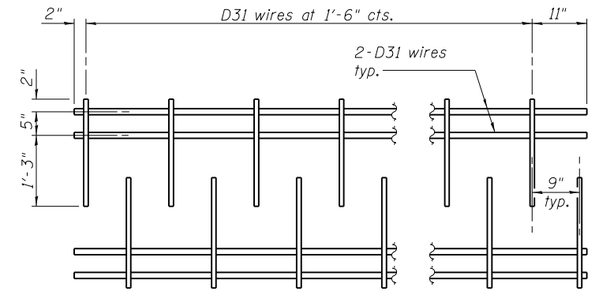
ELEVATION - BOTTOM PLATE ASSEMBLY



SECTION E-E

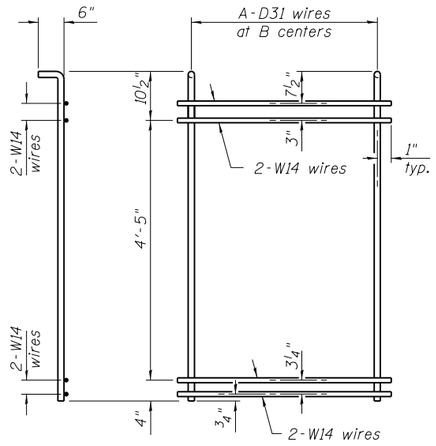


BAR G(E)



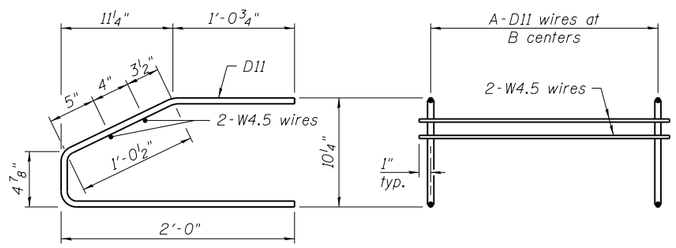
M1 WWR DETAIL

When multiple sheets of M1 WWR are required along the beam length, #5(E) bars (5'-0" long) shall be used to splice the longitudinal D31 wires together (Min. Lap 2'-2").



M5 THRU M8 WWR DETAIL

(See Table of Dimensions)

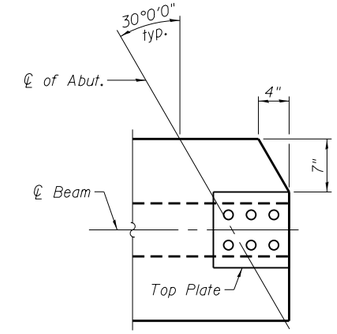


M2 THRU M4 WWR DETAIL

(See Table of Dimensions)

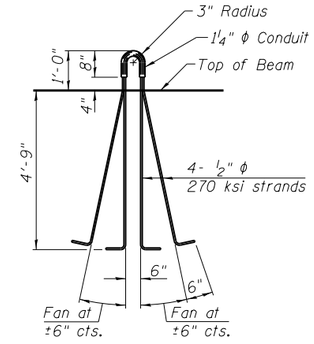
TABLE OF DIMENSIONS

WWR	A	B
M2	9	3"
M3	15	6"
M4	31	1'-6"
M5	18	3"
M6	13	6"
M7	11	1'-0"
M8	17	2'-0"



TOP FLANGE CLIP DETAIL

(Do not clip bottom flange)



LIFTING LOOP DETAIL

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Beams, IL63N	Foot	691.5

Notes:

1. Inserts for ¾" ϕ threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams.
2. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter for beam strands shall be 0.6" and the nominal cross-sectional area shall be 0.217 sq. in. The nominal diameter for lifting loops shall be ½" and the nominal cross sectional area shall be 0.153 sq. in.
3. The beams shall have a final concrete compressive strength, f'c, of 8500 psi and a release concrete compressive strength, f'ci, of 7000 psi.
4. A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.
5. The top and bottom plates shall be AASHTO M270 Grade 50.
6. The top plates and bottom plate assemblies shall be galvanized according to AASHTO M111. The threaded rods, nuts and washers shall be galvanized according to AASHTO M232.
7. Threaded rods shall be ASTM F 1554 Grade 55.
8. Beams shall not be released from the fabricator until they have attained 45 days of age or older.
9. Welded Wire Reinforcement (WWR) shall conform to ASTM A884 with a Class A, Type 1 epoxy coating.

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PLOT DATE = 1/24/2018	CHECKED - SJN	REVISED -

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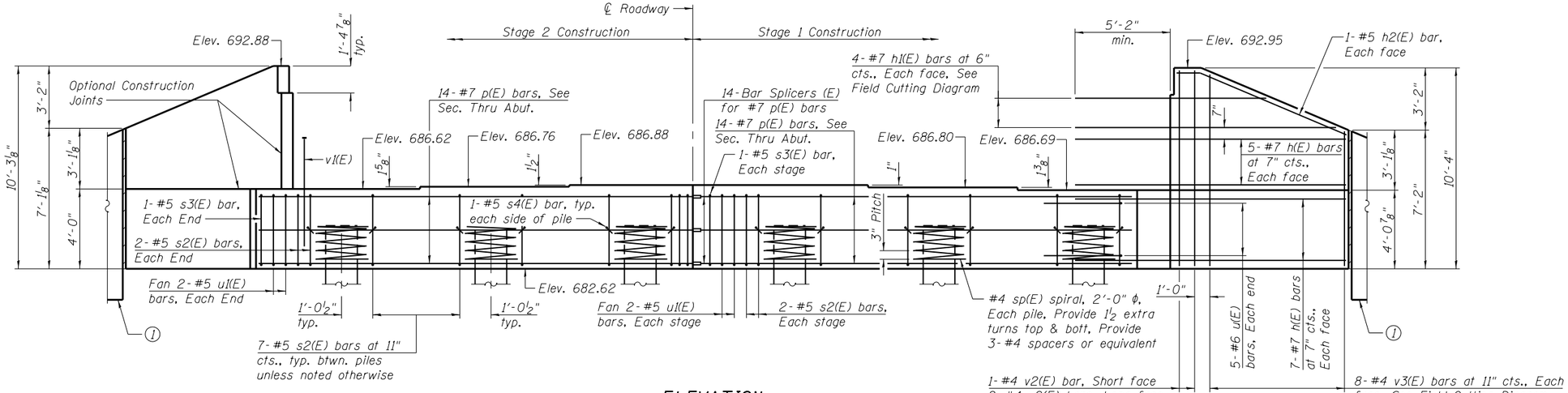
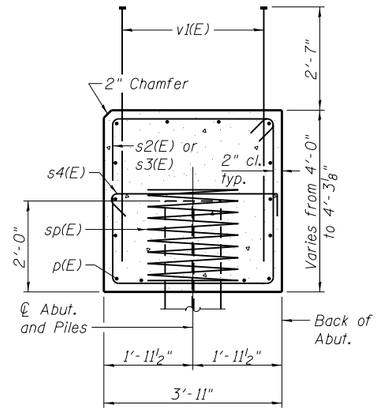
DEPARTMENT OF TRANSPORTATION

IL63N BEAM DETAILS
STRUCTURE NO. 088-0032
SHEET NO. 16 OF 32 SHEETS

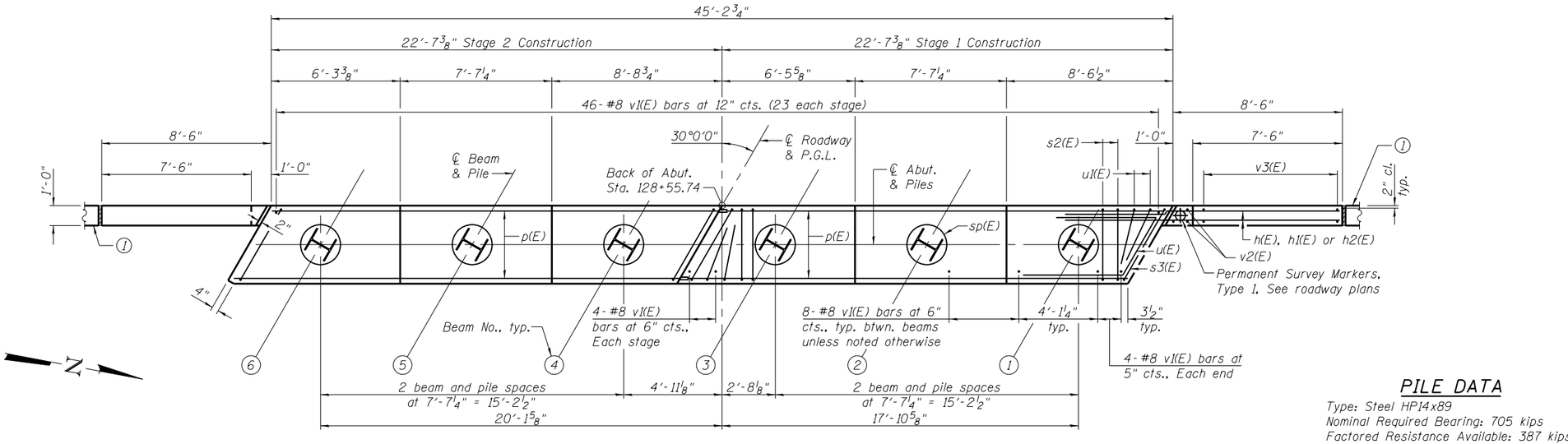
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	39
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			



ELEVATION
(Looking West)



SEC. THRU ABUT.
(Dimensions at right angles to abutment)



PLAN

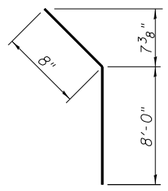
BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	h(E)	48	#7	14'-0"	
	h1(E)	8	#7	23'-4"	
	h2(E)	4	#5	8'-8"	
	h3(E)	32	#4	3'-8"	
	n(E)	20	#4	3'-9"	
	p(E)	28	#7	22'-2"	
	s2(E)	36	#5	15'-5"	
	s3(E)	4	#5	16'-5"	
	s4(E)	12	#5	4'-7"	
(2)	sp(E)	6	#4	2'-0"	
	t1(E)	16	#5	7'-6"	
	t2(E)	10	#4	6'-8"	
	u(E)	10	#6	11'-8"	
	u1(E)	8	#5	10'-4"	
(3)	v1(E)	94	#8	5'-11"	
	v2(E)	6	#4	9'-11"	
	v3(E)	16	#4	16'-4"	
	v4(E)	10	#4	12'-5"	
	w1(E)	32	#4	3'-8"	

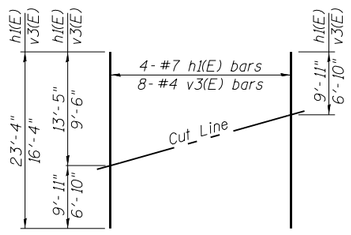
Structure Excavation	Cu. Yd.	116
Concrete Structures	Cu. Yd.	37.4
Reinforcement Bars, Epoxy Coated	Pound	6,460
Furnishing Steel Piles HP14x89	Foot	195
Driving Piles	Foot	195
Test Pile Steel HP14x89	Each	1
Pile Shoes	Each	6

PILE DATA

Type: Steel HP14x89
Nominal Required Bearing: 705 kips
Factored Resistance Available: 387 kips
Est. Length: 39'
No. Production Piles: 5
No. Test Piles: 1

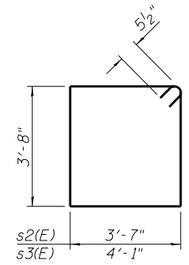


BAR h2(E)

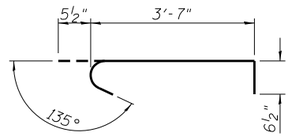


FIELD CUTTING DIAGRAM

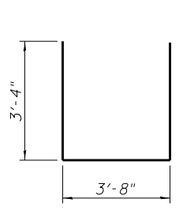
Order h1(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.



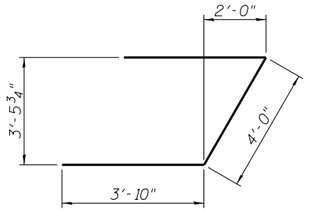
BAR s2(E) & s3(E)



BAR s4(E)



BAR u1(E)



BAR u(E)

Notes:
1. For Wingwall Extension Details and expansion joint details, see sheet 19 of 32.
2. Length is height of spiral.
3. Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.
4. Pour steps monolithically with cap.
5. For details of piles, see sheet 20 of 32.
6. For details of Bar Splicers, see sheet 21 of 32.

FILE NAME = H:\P\29848\WO 13 SN088-8032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\08800232-68895-817-West Abutment Details.dgn

OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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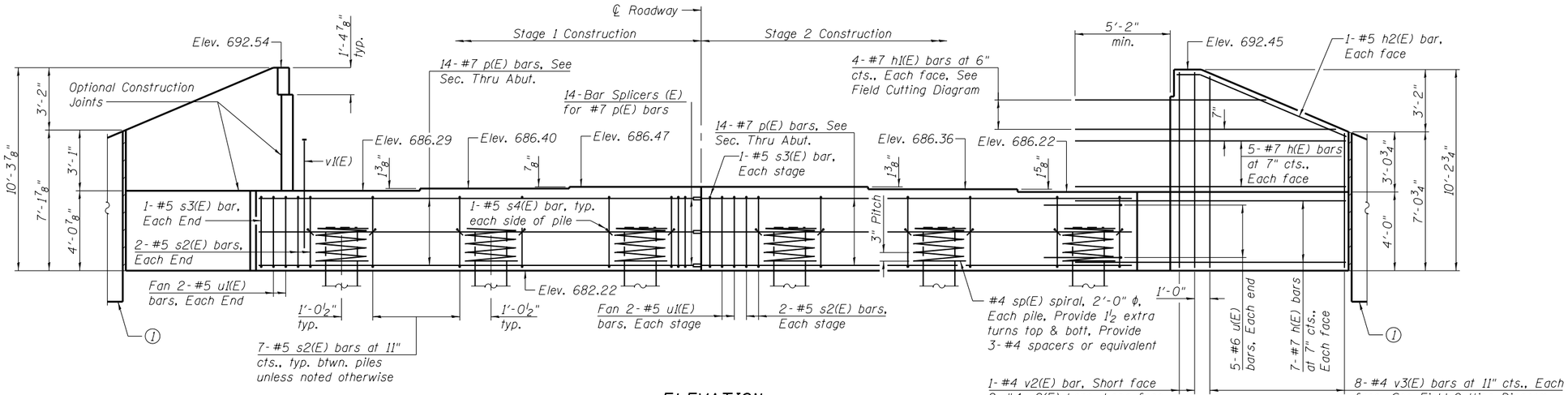
	CHECKED - SJN	REVISED -	
PLOT SCALE =	DRAWN - KBC	REVISED -	
PLOT DATE = 1/24/2018	CHECKED - SJN	REVISED -	

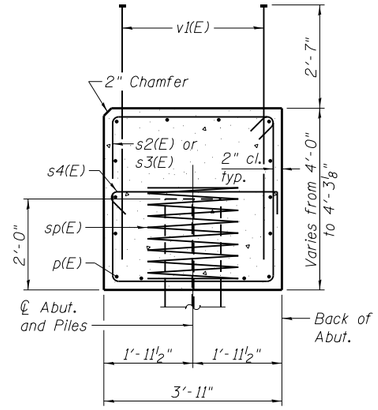
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT DETAILS
STRUCTURE NO. 088-0032
SHEET NO. 17 OF 32 SHEETS

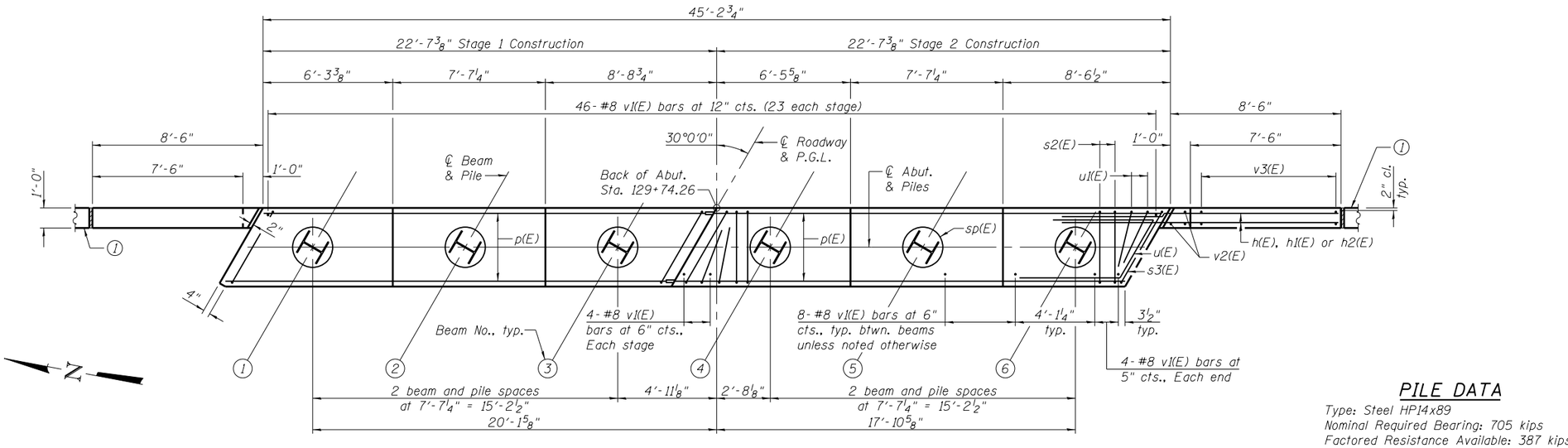
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	40
		CONTRACT NO. 68895		
		ILLINOIS FED. AID PROJECT		



ELEVATION
(Looking East)



SEC. THRU ABUT.
(Dimensions at right angles to abutment)



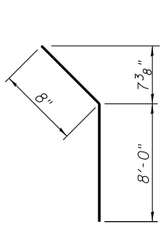
PLAN

BILL OF MATERIAL

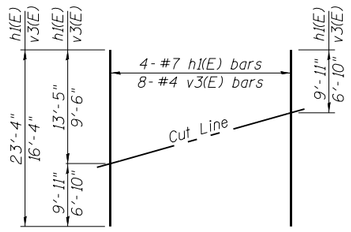
	Bar	No.	Size	Length	Shape
	h(E)	48	#7	14'-0"	
	h1(E)	8	#7	23'-4"	
	h2(E)	4	#5	8'-8"	
	h3(E)	32	#4	3'-8"	
	n(E)	20	#4	3'-9"	
	p(E)	28	#7	22'-2"	
	s2(E)	36	#5	15'-5"	
	s3(E)	4	#5	16'-5"	
	s4(E)	12	#5	4'-7"	
(2)	sp(E)	6	#4	2'-0"	
	t1(E)	16	#5	7'-6"	
	t2(E)	10	#4	6'-8"	
	u(E)	10	#6	11'-8"	
	u1(E)	8	#5	10'-4"	
(3)	v1(E)	94	#8	5'-11"	
	v2(E)	6	#4	9'-11"	
	v3(E)	16	#4	16'-4"	
	v4(E)	10	#4	12'-5"	
	w1(E)	32	#4	3'-8"	
	Structure Excavation		Cu. Yd.	113	
	Concrete Structures		Cu. Yd.	37.4	
	Reinforcement Bars, Epoxy Coated		Pound	6,460	
	Furnishing Steel Piles HP14x89		Foot	195	
	Driving Piles		Foot	195	
	Test Pile Steel HP14x89		Each	1	
	Pile Shoes		Each	6	

PILE DATA

Type: Steel HP14x89
Nominal Required Bearing: 705 kips
Factored Resistance Available: 387 kips
Est. Length: 39'
No. Production Piles: 5
No. Test Piles: 1

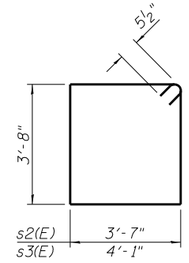


BAR h2(E)

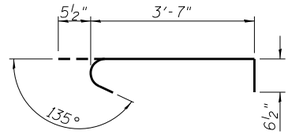


FIELD CUTTING DIAGRAM

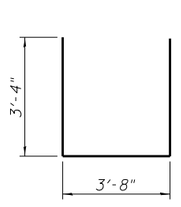
Order h1(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.



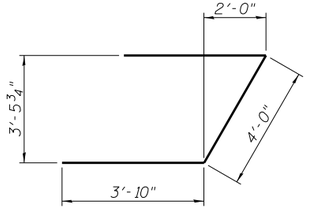
BAR s2(E) & s3(E)



BAR s4(E)



BAR u1(E)



BAR u(E)

Notes:
1. For Wingwall Extension Details and expansion joint details, see sheet 19 of 32.
2. Length is height of spiral.
3. Headed bars shall conform to ASTM A970 Class HA. Cost included with Reinforcement Bars, Epoxy Coated.
4. Pour steps monolithically with cap.
5. For details of piles, see sheet 20 of 32.
6. For details of Bar Splicers, see sheet 21 of 32.

FILE NAME = H:\P\29048\WO 13 SN088-8032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\08800232-68895-818-East Abutment Details.dgn

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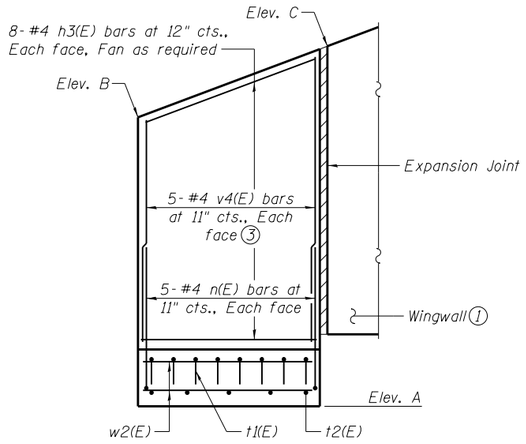
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME =	DESIGNED - KBC	REVISED -	
	CHECKED - SJN	REVISED -	
PLOT SCALE =	DRAWN - KBC	REVISED -	
PLOT DATE = 1/24/2018	CHECKED - SJN	REVISED -	

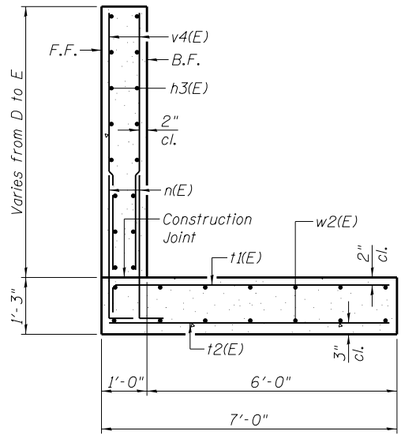
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT DETAILS
STRUCTURE NO. 088-0032
SHEET NO. 18 OF 32 SHEETS

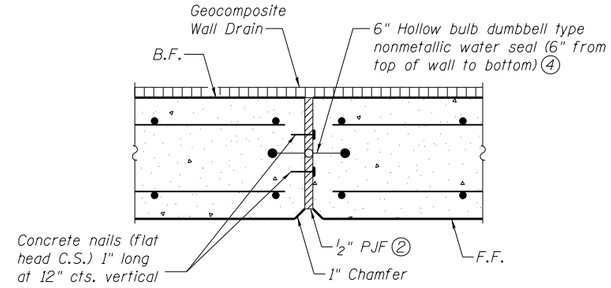
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	41
		CONTRACT NO. 68895		
		ILLINOIS FED. AID PROJECT		



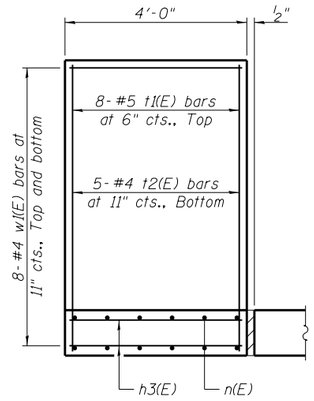
ELEVATION



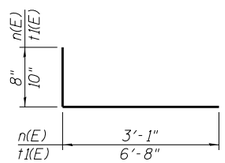
SECTION THRU EXTENSION



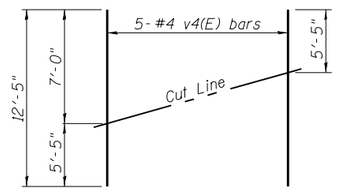
EXPANSION JOINT



FOOTING PLAN



BAR n(E) & t1(E)



FIELD CUTTING DIAGRAM

Order v4(E) full length. Cut as shown and use remainder of bars in opposite face.

WINGWALL EXTENSION ELEVATION & DIMENSION TABLE

	Wingwall	Elev. A	Elev. B	Elev. C	D	E
West Abut.	North	681.04	688.12	689.79	5'-10"	7'-6"
West Abut.	South	681.04	688.05	689.72	5'-9 1/8"	7'-5 1/8"
East Abut.	North	680.64	687.71	689.38	5'-9 7/8"	7'-5 7/8"
East Abut.	South	680.64	687.62	689.29	5'-8 3/4"	7'-4 3/4"

Notes:
1. For Bill of Material and wingwall details, see sheets 17 and 18 of 32.
2. Cost included with Concrete Structures.
3. See Field Cutting Diagram.
4. 6" Dumbbell type nonmetallic water seal shall be in accordance with Article 503.12 and Section 1054 of the Standard Specifications. Cost included with Concrete Structures.
5. B.F. denotes back face and F.F. denotes front face.

FILE NAME = H:\P\29848\W0 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\0888032-68895-019-Wingwall Extension Details.dgn

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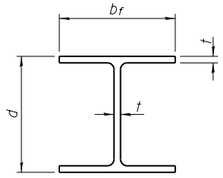
PLOT SCALE =	DRAWN - KBC	REVISED -	
PLOT DATE = 1/24/2018	CHECKED - SJN	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

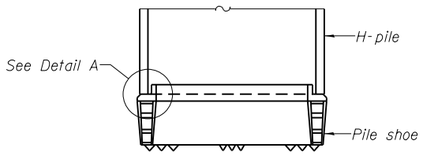
WINGWALL EXTENSION DETAILS
STRUCTURE NO. 088-0032
SHEET NO. 19 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	42
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

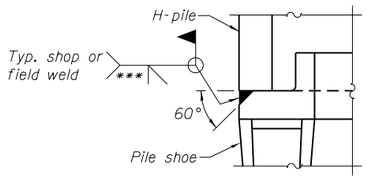


STEEL PILE TABLE

Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	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"	11/16"	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"

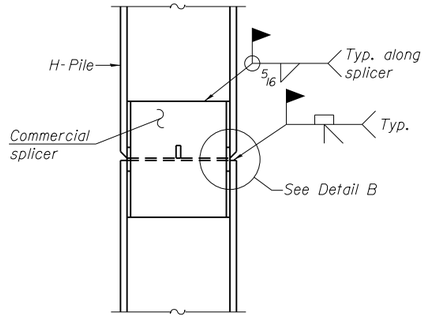


ELEVATION

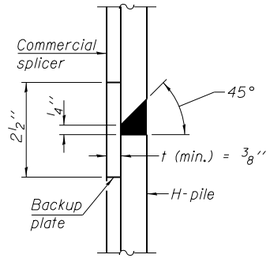


DETAIL A

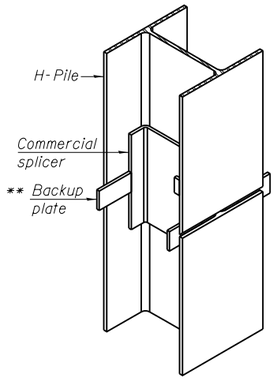
H-PILE SHOE ATTACHMENT



ELEVATION

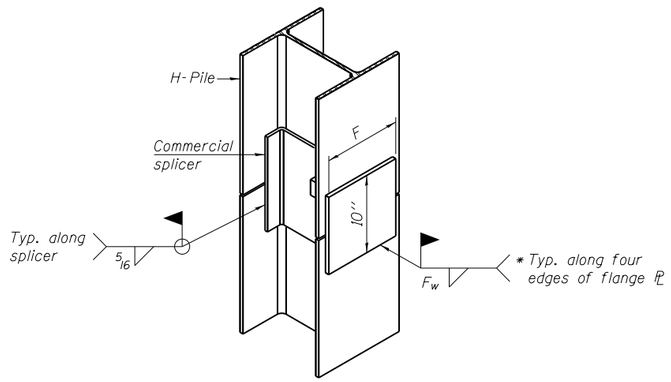


DETAIL "B"

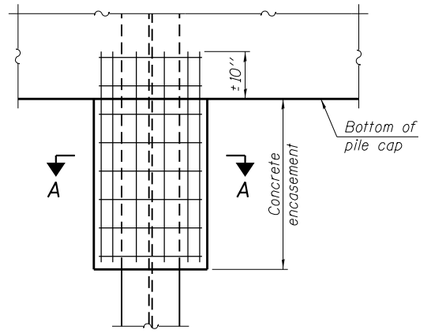


ISOMETRIC VIEW

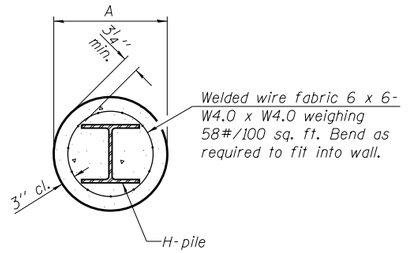
WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW



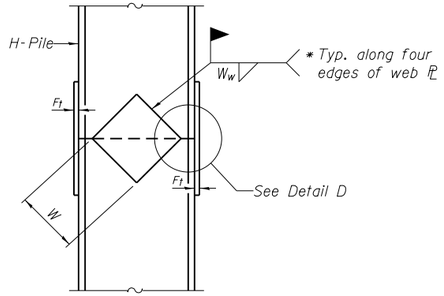
ELEVATION



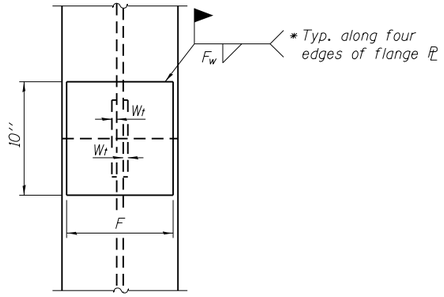
Note:
Forms for encasement may be omitted when soil conditions permit.

SECTION A-A

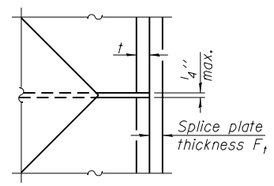
PILE ENCASEMENT



ELEVATION



END VIEW



DETAIL D

Designation	F	F_t	F_w	W	W_t	W_w
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"	11/16"	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"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	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"

WELDED PLATE FIELD SPLICE

WELDED COMMERCIAL SPLICE ALTERNATE

* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).

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

F-HP 1-27-12

OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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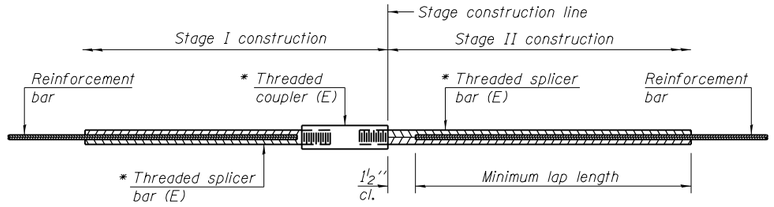
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 088-0032
SHEET NO. 20 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	43
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

FILE NAME = H:\PW\20148\W0 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\0880032-68895-020-HP Pile Details.dgn

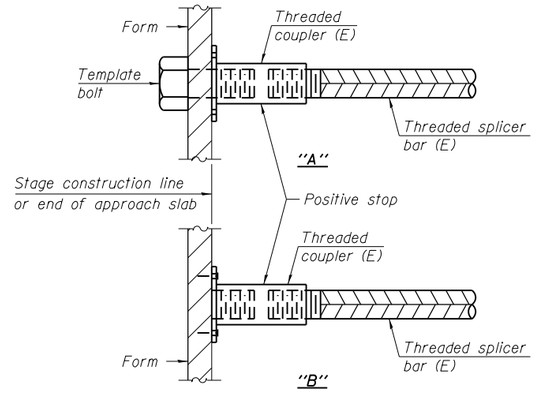


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1½" + thread length

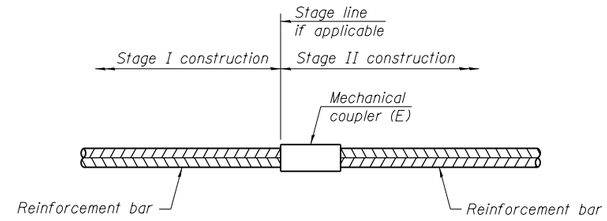
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	342	3'-6"
Abutment Diaphragms	#6	26	3'-8"
Top of Appr. Slabs	#5	78	3'-1"
Bottom of Appr. Slabs	#8	104	4'-9"
Appr. Footings	#5	80	2'-6"
Abutment Caps	#7	28	4'-7"



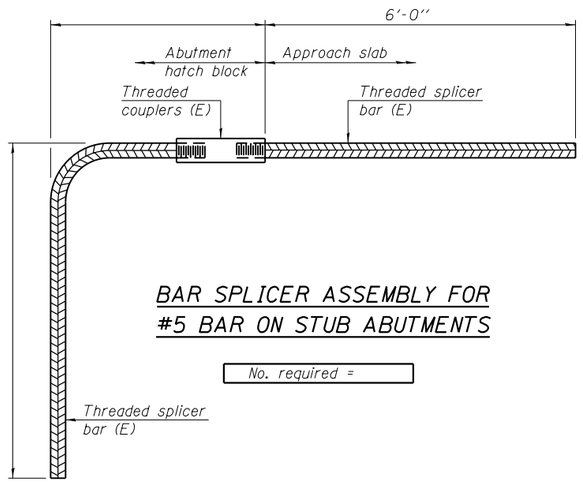
INSTALLATION AND SETTING METHODS

"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



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.

BSD-1

11-22-2016

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ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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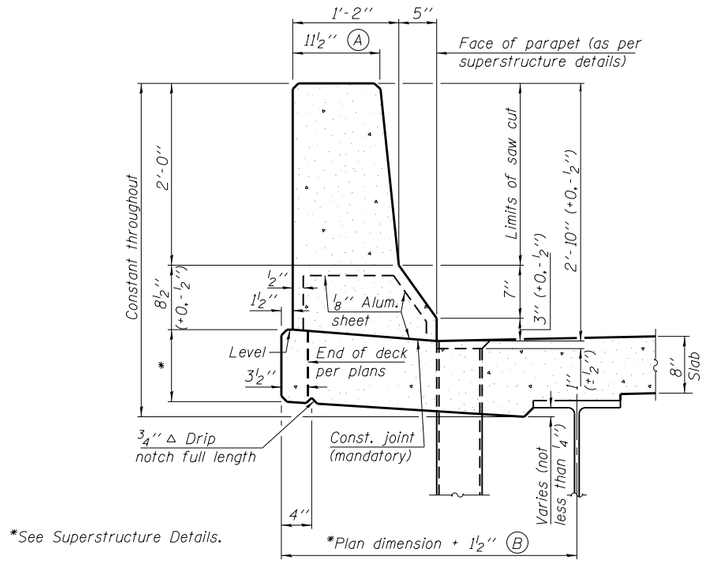
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 088-0032
SHEET NO. 21 OF 32 SHEETS

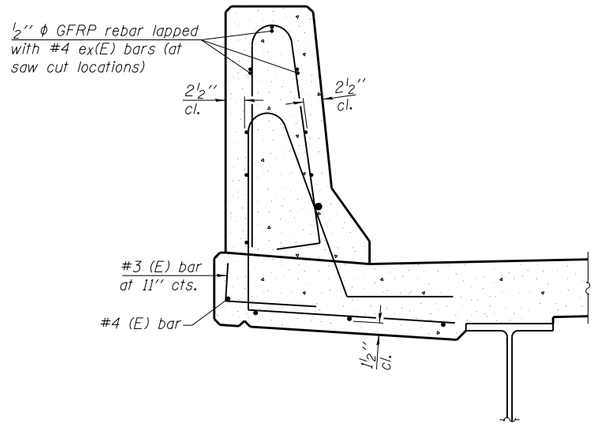
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	44
		CONTRACT NO. 68895		
		ILLINOIS FED. AID PROJECT		

FILE NAME = M:\PV_29048\WO 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\088032-68895-021-Bar Splicer Assembly and Mechanical Splicer Details.dgn



34" F SHAPE PARAPET SECTION

(Showing dimensions)



SECTION

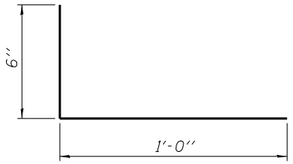
(34" parapet shown - 42" parapet similar)
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

GENERAL NOTES

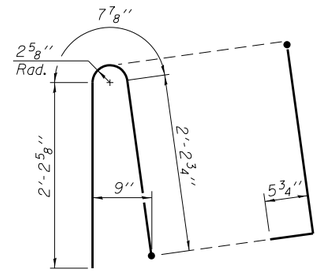
All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet.

Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler.

Steel superstructure shown. Other superstructure types similar.

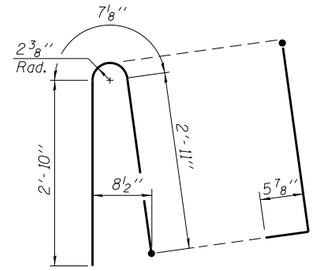


#3 (E) BAR



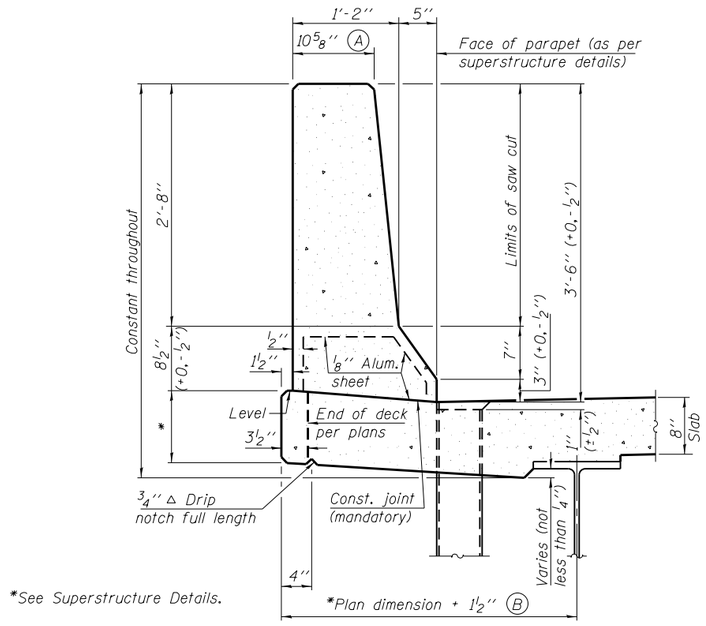
ALTERNATE BAR d(E)

(For 34" parapet when conduit is present)



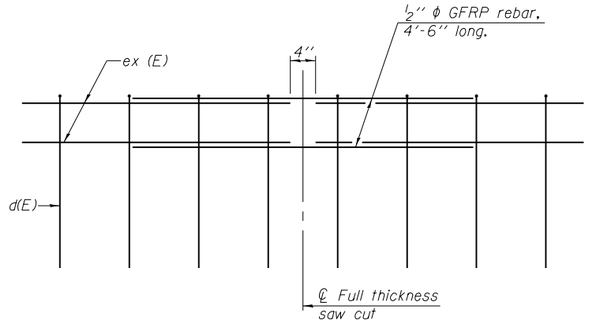
ALTERNATE BAR d(E)

(For 42" parapet when conduit is present)



42" F SHAPE PARAPET SECTION

(Showing dimensions)



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

SFP 34-42

11-22-2016

OATES ASSOCIATES ILLINOIS DESIGN FIRM LICENSE NO: 184.001115	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
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	PLOT DATE = 1/24/2018	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE PARAPET SLIPFORMING OPTION
STRUCTURE NO. 088-0032
SHEET NO. 22 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	45
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

FILE NAME = H:\P\29048\WD 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\088032-68895-022-Concrete Parapet Slipforming Option.dgn

FORM NO. B.D. 137 REV. 9-60 — Sh. 1 of 4 Sh.

BRIDGE FOUNDATION BORING LOG

PROJECT F-64( )
ROUTE SBI 30
SEC. 14 BR-2
COUNTY Stark
Boring No. 1
Station 128+46
Offset 11 Lt ℄

BRIDGE SBI 30 over Indian Creek
STA. 129+15

Date 10-9-63
Bored By R. A. Willems
Checked By W. Barney, Jr.

Surface Water El. -- --
Groundwater El. at Completion 669.4
After 24 Hours 670.5

Ground Surface 677.9	Elevation	N	Qu t/s.f.	w (%)
Loose Brown Silty LOAM	0			
674.9		6	-	-
Soft Dark Brown Silty CLAY LOAM	-5	8	S 2.6	15
Trace Lt. Brown Sand 6' to 10'		2	-	17
667.4	-10	4	-	-
Loose to Medium Gray Well Graded SAND and GRAVEL		8	-	17
Wash Boring 14' to 15 1/2' only 662.4	-15	15	-	-
Stiff Dark Gray CLAY with Traces of SAND and GRAVEL		23	-	-
659.9				
Soft Dark Grey SHALE	-20	38	S 4.1	17
657.4				
Medium Black SHALE				
653.4	-25	100 7"	S 4.3	15
Dense Gray Shaley CLAY		100 9"	-	-
648.4				
Very Dense Black Coal 647.4	-30			
Very Dense Grey Limestone 645.9				
End of Boring				
Core 25 1/2' to 33'	-35			
	-40			
	-45			

-- Standard Penetration Test -- ows per foot to drive 2" .D. Split Spoon Sampler 12" with 0# hammer falling 30".

Qu -- Unconfined Compressive Strength -- t/sf

w -- Water Content -- percentage of oven dry weight -- %.

Type failure:
B -- Bulge Failure
S -- Shear Failure
E -- Estimated Value

FORM NO. B.D. 137 REV. 9-60 — Sh. 2 of 4 Sh.

BRIDGE FOUNDATION BORING LOG

PROJECT F-64( )
ROUTE SBI 30
SEC. 14 BR-2
COUNTY Stark
Boring No. 2
Station 129+06
Offset 22' Rt ℄

BRIDGE SBI 30 over Indian Creek
STA. 129+35

Date 10-10-63
Bored By R. A. Willems
Checked By W. Barney, Jr.

Surface Water El. -- --
Groundwater El. at Completion 669.5
After 70 Hours 670.2

Ground Surface 677.2	Elevation	N	Qu t/s.f.	w (%)
Medium Dark Brown Silty CLAY LOAM	0			
674.2		7	-	-
Stiff Brown Silty CLAY	-5	5	S 1.6	-
671.7				
Very Soft Brown and Gray Silty CLAY LOAM		3	B 0.4	-
669.2				
Loose Well Graded SAND and GRAVEL with trace of Clay	-10	2	-	-
664.2		11	-	-
Stiff Gray Shaley CLAY layers of Gray Shale and Trace of Boulders	-15	20	S 2.4	-
		27	S 2.7	-
656.7	-20	38	-	-
Medium Black SHALE				
654.2		100	-	-
Medium Gray SHALE	-25	110	S 3.7	-
649.2		82	S 2.9	-
Very Dense Black COAL	-30	100 9"	-	-
646.7				
Very Dense, soft gray LIMESTONE		100 3"	-	-
644.2				
End of Boring	-35			
	-40			
	-45			

N -- Standard Penetration Test -- Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30".

Qu -- Unconfined Compressive Strength -- t/sf

w -- Water Content -- percentage of oven dry weight -- %.

Type failure:
B -- Bulge Failure
S -- Shear Failure
E -- Estimated Value

FILE NAME = H:\P\29048\WO 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\088032-68895-023-Soil Boring Logs.dgn

OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 1/24/2018	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 088-0032
SHEET NO. 23 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	46
		CONTRACT NO. 68895		
		ILLINOIS FED. AID PROJECT		

FORM NO. B.D. 137 REV. 9-60 — Sh. 3 of 4 Sh.

BRIDGE FOUNDATION BORING LOG

PROJECT F-64( ) — BRIDGE SBI 30 over Indian Creek — Date 10-(14,15)-63
ROUTE SBI 30 — Bored By R. A. Willems
SEC. 14 BR-2 — STA. 129+15 — Checked By W. Barney, Jr.
COUNTY Stark
Boring No. 3 (Sheet 2)
Station 129+24
Offset 22' Lt ℄

Surface Water El. --
Groundwater El. at Completion 669.4
After 1 Hours 669.4

Elevation	N	Qu t/s.f.	w (%)
Ground Surface 676.4	0		
Loose Dark Brown Silty CLAY LOAM			
673.4	6	-	-
Loose Dark Brown Silty CLAY LOAM with Traces of Sand	-5		
668.4	3	-	-
Very Soft Black SANDY LOAM Trace of Organic Material	-10		
663.4	14	-	-
Medium Gray Shaley CLAY			
660.9	-15 25	-	-
Hard Black Shaley CLAY		S	
655.9	41	3.6	-
Hard Black SHALE	-20	S	
	46	4.8	-
653.4	100/5"	S 4.8	-
Hard Gray SHALE			
650.9	-25 100/7"	S 5.6	-
Hard Gray Shaley CLAY		S	
647.4	110	4.8	-
Very Dense, hard Lt. Gray SANDSTONE	-30 100/5"	S 12.1+	-
644.9			
Very Dense Lt. Gray SHALE		S	
643.4	100/3"	3.6	-
End of Boring			
	-35		
	-40		
	-45		

N – Standard Penetration Test – Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30".

Qu – Unconfined Compressive Strength – t/sf

w – Water Content – percentage of oven dry weight – %.

Type failure: B – Bulge Failure, S – Shear Failure, E – Estimated Value

FORM NO. B.D. 137 REV. 9-60 — Sh. 4 of 4 Sh.

BRIDGE FOUNDATION BORING LOG

PROJECT F-64( ) — BRIDGE SBI 30 over Indian Creek — Date 10-(11,14)63
ROUTE SBI 30 — Bored By R. A. Willems
SEC. 14 BR-2 — STA. 129+15 — Checked By W. Barney, Jr.
COUNTY Stark
Abutment 4
Boring No. 4
Station 129+84
Offset 11' Rt ℄

Surface Water El. -- --
Groundwater El. at Completion 669.2
After 24 Hours 671.7

Elevation	N	Qu t/s.f.	w (%)
Ground Surface 676.2	0		
Medium Brown Silty CLAY LOAM			
673.2	7	S 2.3	18
Medium Gray Silty CLAY Trace of SAND	-5		
670.7	7	S 1.2	21
Soft Gray Sandy LOAM			
668.2	3	B 0.3	23
Loose Brown, Well Graded SAND and GRAVEL	-10		
665.7	10	-	-
Stiff Light Gray Shaley CLAY Trace Boulders			
663.2	36	S 1.6	20
Stiff Dark Gray Shaley CLAY			
660.7	-15 27	-	-
Firm Gray Shaley CLAY			
658.2	84	S 2.1	17
Medium Black SHALE	-20		
654.2	116	E 3.9	-
654.2	87/4"	S 4.8	13
Medium Lt. Gray SHALE			
650.7	-25 100/5"	S 3.9	13
Soft Black Shaley COAL			
648.2	100/3"	-	15
Soft Lt. Gray SILTSTONE	-30		
645.7	100/4"	-	-
Hard Lt. Gray SHALE			
643.2	100/3"	-	-
Medium Lt. Gray SHALE			
640.7	-35 100/4"	-	15
Hard Lt. Gray SHALE			
	100/6"	S 7.0	8
635.7	-40 100/2"		
End of Boring			
	-45		

N – Standard Penetration Test – Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with 140# hammer falling 30".

Qu – Unconfined Compressive Strength – t/sf

w – Water Content – percentage of oven dry weight – %.

Type failure: B – Bulge Failure, S – Shear Failure, E – Estimated Value

FILE NAME = H:\P\29048\WD 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\0880032-68895-024-Soil Boring Logs.dgn

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PLOT SCALE =	DRAWN -	REVISED -	
PLOT DATE = 1/24/2018	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 088-0032
SHEET NO. 24 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	47
		CONTRACT NO. 68895		
	ILLINOIS	FED. AID PROJECT		

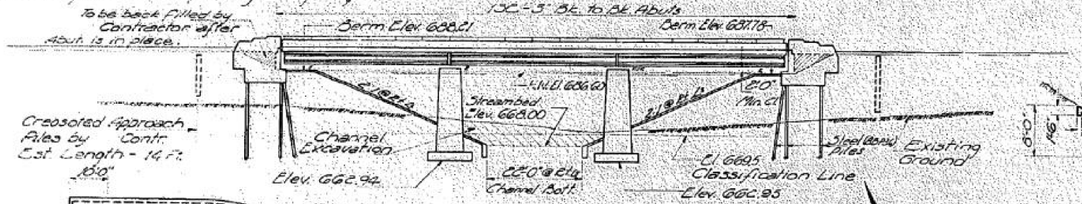
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
30	14BR3	STARK	42	12

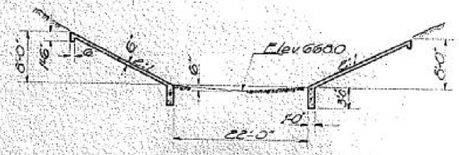
SHEET NO 1
10 SHEETS
F-64(2)

B.M.: T.B.M. 1A "Chiseled" on top South Wing of East Abut. of Bridge L.F. Sta. 128+00± Elev. 685.33
Existing Structure: At Sta. 357.71 (E 128+00)
Conc. Deck, Conc. Abuts & Piers, 22' Rdwy.
To be removed by Contractor after new bridge is built
No Salvage. - No Temporary Bridge Required.

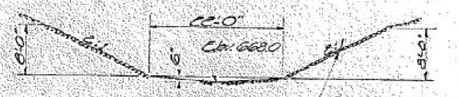
ELEVATION

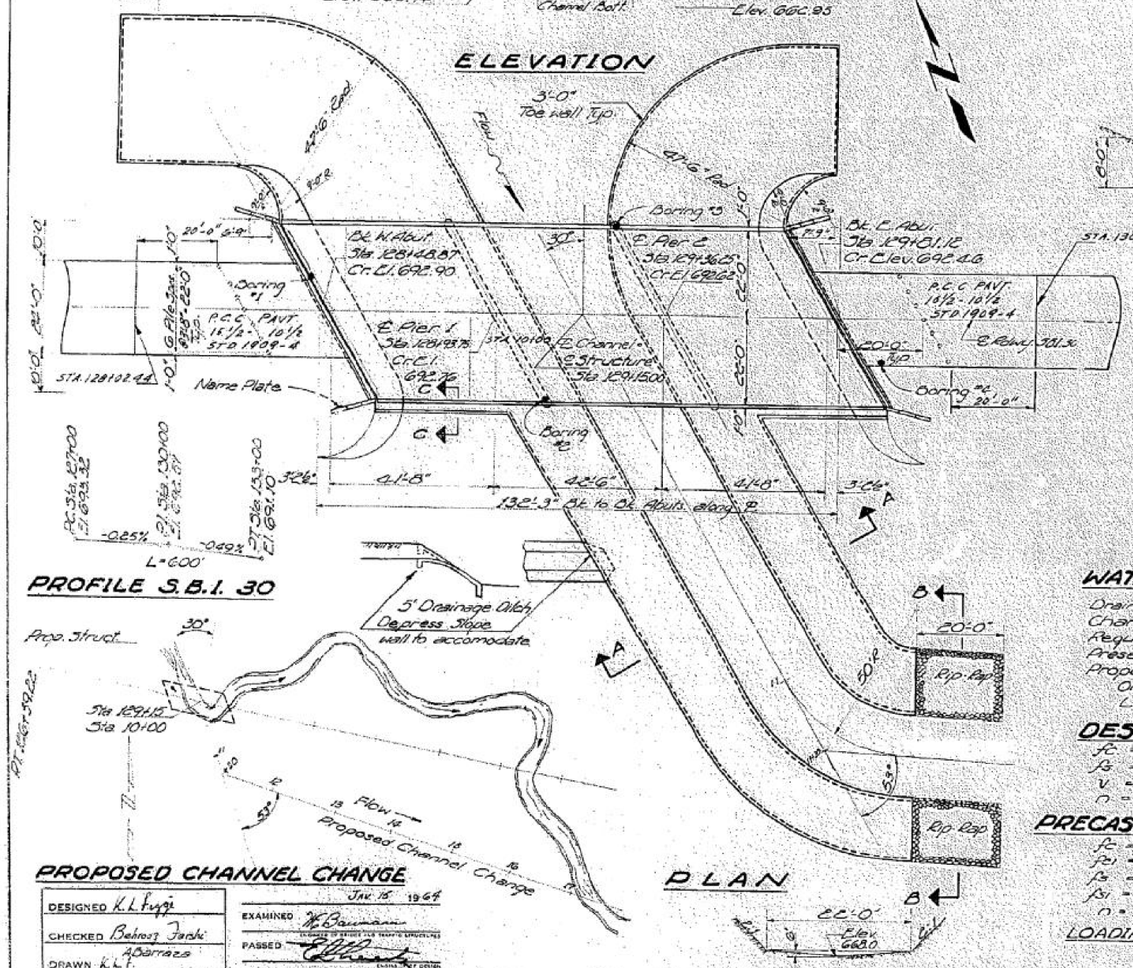


SECTION A-A

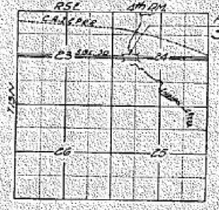


SECTION B-B





LOCATION PLAN



WATERWAY INFORMATION

Drainage Area - 0.624.0 Acres
Character - Rolling, Cultivated
Required Opening (50 yr. ft.) 1000 Sq. Ft.
Present Opening 820 Sq. Ft.
Proposed Opening 1000 Sq. Ft.
Ordinary Water El. 669.5
Low Water El. 668.5

DESIGN STRESSES

f_c = 1400 psi
f_s = 20000 psi (Reinf.)
V = 75 psi (Flgs.)
n = 10

PRECAST PRESTRESSED UNIT

f_c = 5000 psi
f_{ci} = 4000 psi
f_s = 243,000 psi (Cables)
f_{si} = 173,600 psi
n = 10

LOADING H20-S16-44

SEC. C-C

GENERAL NOTES

Coarse aggregate to be used in end posts and parapet handrail must be absolutely free of chert, flint, limonite, lignite and soft sandstone.

The concrete floor slab shall be finished in accordance with Art. 51.19 of the Standard Specifications.

Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, #2 wire weighing 58 pounds per 100 square ft.

Layout of slope walls may be varied to suit ground condition in the field as directed by the Engineer.

The exposed surfaces of the expansion guard shall be given two shop coats of red lead paint, the contact surfaces shall be given one coat of red lead paint, shear connector studs shall not be painted. Estimated wt. 2780 lbs.

Except as otherwise noted, all structural steel shall receive one shop coat of red lead paint and two field coats of Aluminum paint. See Art. 506.1 to 506.5 inclusive of the Standard Specifications.

The Contractor shall drive one permanent steel (HP 10x42) test pile at each Abutment as directed by the Engineer before ordering the remainder of piles.

All structural steel shall comply with the Specifications for Structural Steel A.S.T.M. designation A-36.

Permanent forms will not be permitted in forming the concrete floor.

STATION 129+15
BUILT 1964 BY
STATE OF ILLINOIS
S.B.I. RT. 30 SEC. 14BR2
PROJ. F-64 (2)
LOADING H20-S16

NAME PLATE

See Std. 2113-1

TOTAL BILL OF MATERIAL

Item		Super. S.B.		Total
Class A Excavation for Struct.	Cu. Yds.			510
Class 10 Conc. for Structures	Cu. Yds.			670
** Structural Steel	Lbs.	4720		4720
Class X Concrete	Cu. Yds.	1897	1028	2925
Aluminum Handrail	Lin. Ft.	257		257
Reinforcement Bars	Lbs.	40,180	20,450	60,630
Creosoted Piles	Lin. Ft.			196
Class A Concrete	Cu. Yds.		451.8	451.8
Steel Piles (HP 10x42)	Lin. Ft.		840	840
Test Piles, Steel (HP 10x42)	Ea.		2	2
Name Plates	Ea.			1
Riprap	Sq. Yds.			80
Slope Wall 6"	Sq. Yds.			1980
Furnishing & Erecting Precast Prestressed Concrete I-Bms. 36"	Lin. Ft.	886		886
Protective Coat	Sq. Yds.			730
* Bridge Seat Sealant	Lump Sum			L.S.

* Applied at Abutments only.
** Includes bearing plates detailed on Sht. 6 Est. Wt. = 1940#

Includes excavation for Slope Wall

GENERAL PLAN AND ELEVATION
PROJ. F-64 (2)
INDIAN CREEK
S.B.I. 30 SEC. 14BR-2
STARK COUNTY
STA. 129+15

Rev. 5/17/18 - N.F.P.E. Revised Bridge Plant as per District Input

DESIGNED	K.L. Fuggi	EXAMINED	W.C. Baumann
CHECKED	Behrooz Farshi	PASSED	
DRAWN	K.L.F. / Aparraza	APPROVED	J.E. Duffy
CHECKED	B. F.		

Jan. 15 1968

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 1/24/2018	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS FOR INFORMATION ONLY
SHEET NO. 25 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	48
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

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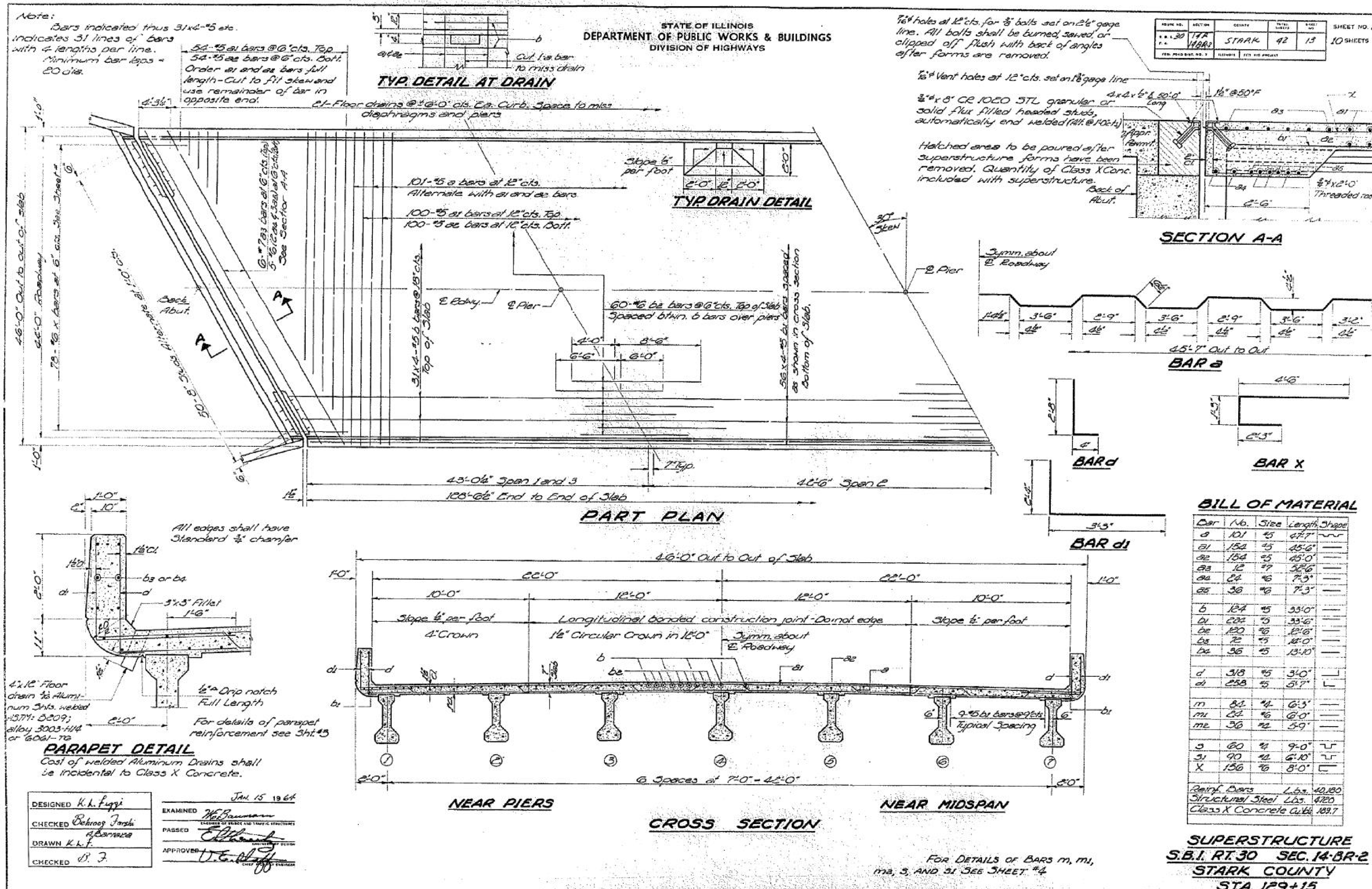

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	101	#5	47'-7"	
a1	154	#5	45'-6"	
a2	154	#5	45'-0"	
a3	12	#7	52'-6"	
a4	24	#6	7'-3"	
a5	36	#6	7'-3"	
b	124	#5	33'-0"	
b1	234	#5	33'-6"	
b2	120	#6	12'-6"	
b3	72	#5	14'-0"	
b4	36	#5	13'-10"	
d	318	#5	3'-0"	
d1	258	#5	5'-7"	
m	84	#4	6'-3"	
m1	24	#6	6'-0"	
m2	36	#4	5'-9"	
S	60	#4	9'-0"	
S1	90	#4	6'-10"	
X	156	#6	8'-0"	
Reinf. Bars			Lbs.	40,180
Structural Steel			Lbs.	4720
Class X Concrete			Cu. Yds.	189.7

SUPERSTRUCTURE
S.B.I. RT. 30 SEC. 14-BR-2
STARK COUNTY
STA. 129+15

OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 1/24/2018	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
FOR INFORMATION ONLY

SHEET NO. 26 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	49

CONTRACT NO. 68895

ILLINOIS FED. AID PROJECT

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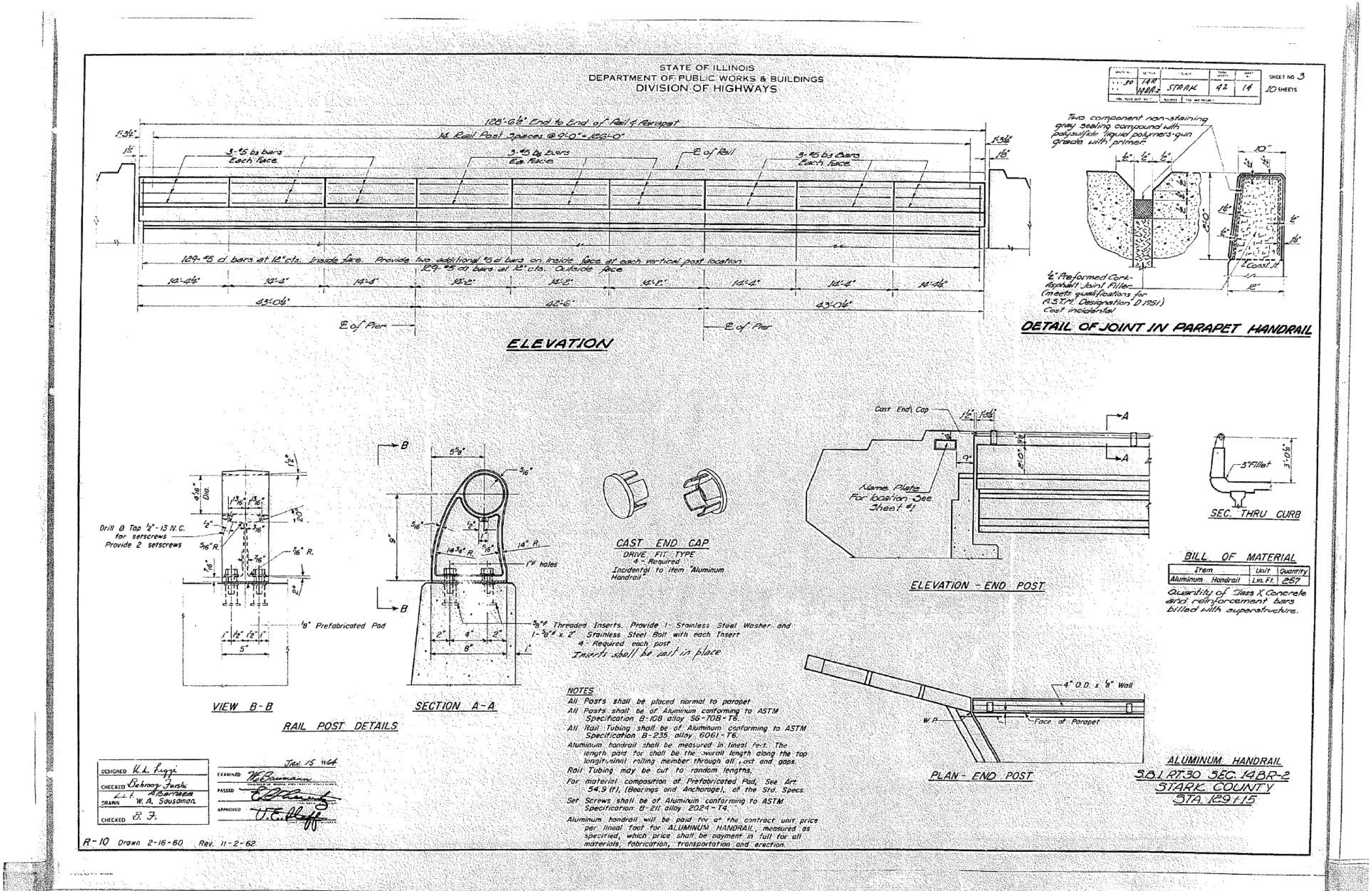

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
SHEET NO 3
10 SHEETS
STARK 42 14
128'-6½" End to End of Rail & Parapet
14 Rail Post Spaces @ 9'-0" = 126'-0"
3-#5 b3 bars Each Face
3-#5 b3 bars Ea. Face
℄ of Rail
129-#5 d bars at 12" cts. Inside face. Provide two additional #5 d bars on inside face at each vertical post location
129-#5 d bars at 12" cts. Outside face
43'-0¼"
42'-6"
℄ of Pier
ELEVATION
Two component non-staining gray sealing compound with polysulfide liquid polymers-gun grade with primer.
½" Preformed Cork-Asphalt Joint Filler (meets qualifications for A.S.T.M. Designation D 1751) Cost incidental
Const. Jt.
DETAIL OF JOINT IN PARAPET HANDRAIL
Drill & Tap ½"-13 N.C. for setscrews Provide 2 setscrews
⅛" Prefabricated Pad
VIEW B-B
SECTION A-A
RAIL POST DETAILS
1⅛" holes
⅝"φ Threaded Inserts. Provide 1-Stainless Steel Washer and 1-⅝"φ x 2" Stainless Steel Bolt with each Insert
4-Required each post
Inserts shall be cast in place
CAST END CAP
DRIVE FIT TYPE
4-Required
Incidental to item "Aluminum Handrail"
Cast End Cap
Name Plate For location See Sheet #1
ELEVATION - END POST
PLAN - END POST
4" O.D. x ⅛" Wall
Face of Parapet
SEC. THRU CURB
3" Fillet
BILL OF MATERIAL
Item | Unit | Quantity
Aluminum Handrail | Lin. Ft. | 257
Quantity of Class X Concrete and reinforcement bars billed with superstructure.
NOTES
All Posts shall be placed normal to parapet.
All Posts shall be of Aluminum conforming to ASTM Specification B-108 alloy SG-70B-T6.
All Rail Tubing shall be of Aluminum conforming to ASTM Specification B-235, alloy 6061-T6.
Aluminum handrail shall be measured in lineal feet. The length paid for shall be the overall length along the top longitudinal railing member through all posts and gaps.
Rail Tubing may be cut to random lengths.
For material composition of Prefabricated Pad, See Art. 54.9 (f), (Bearings and Anchorage), of the Std. Specs.
Set Screws shall be of Aluminum conforming to ASTM Specification B-211 alloy 2024-T4.
Aluminum handrail will be paid for at the contract unit price per lineal foot for ALUMINUM HANDRAIL, measured as specified, which price shall be payment in full for all materials, fabrication, transportation and erection.
ALUMINUM HANDRAIL
S.B.I. RT. 30 SEC. 14BR-2
STARK COUNTY
STA. 129+15
DESIGNED K. L. Fuzzi
CHECKED Behrooz Farshi
DRAWN W. A. Sousamon
CHECKED B. F.
JAN. 15 1964
EXAMINED
PASSED
APPROVED
R-10 Drawn 2-16-60 Rev. 11-2-62

FILE NAME = H:\P\29048\WO 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\0880032-68895-027-Existing Bridge Plans for Information Only.dgn

OATES ASSOCIATES ILLINOIS DESIGN FIRM LICENSE NO: 184.001115	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE = 1/24/2018	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
FOR INFORMATION ONLY

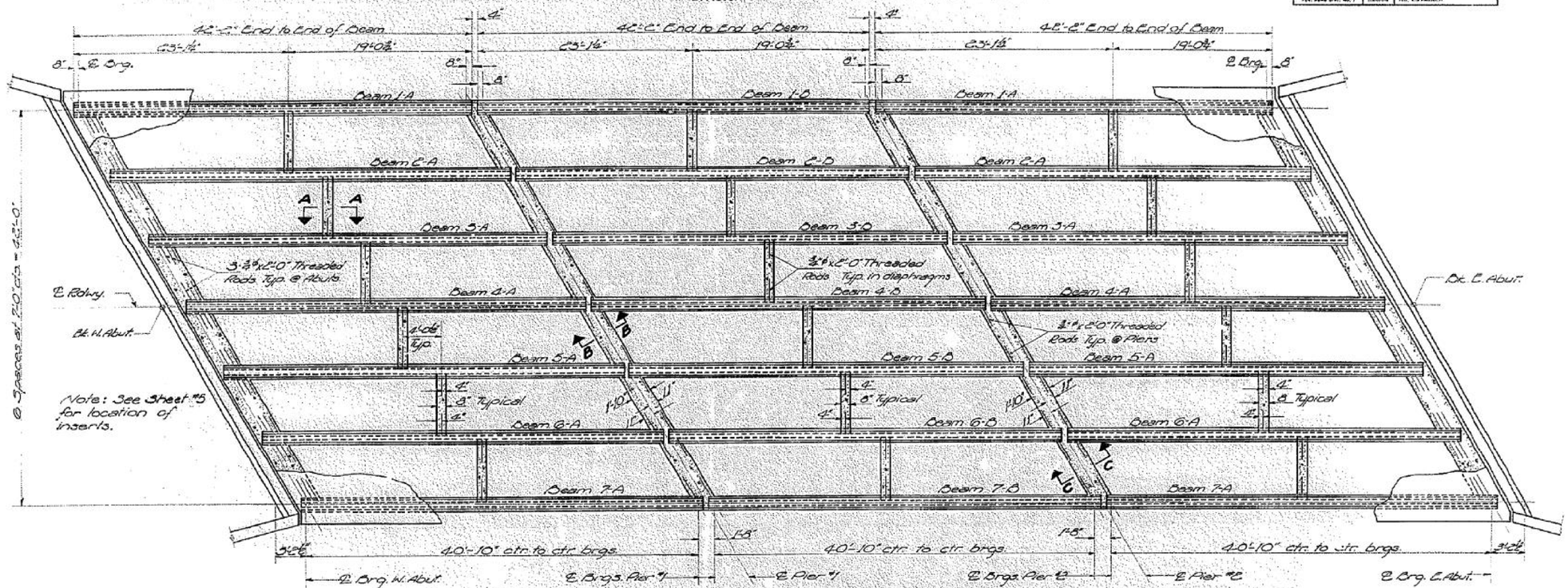
SHEET NO. 27 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	50
		CONTRACT NO. 68895		
		ILLINOIS FED. AID PROJECT		

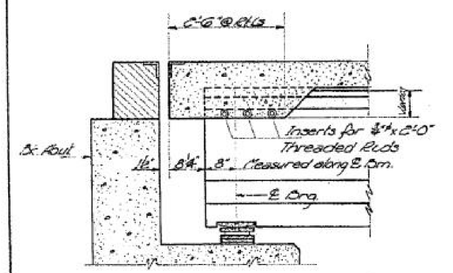
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 643	14BR-3 (148R-2)	STARK	32	15
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

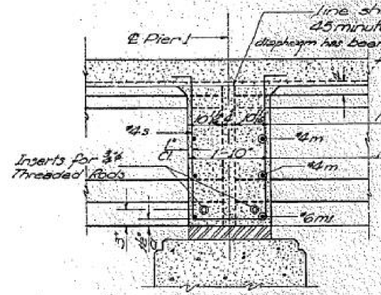
SHEET NO. 4
10 SHEETS



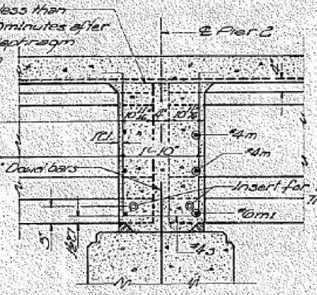
FRAMING PLAN



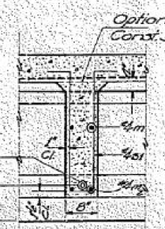
SECTION AT ABUTMENTS



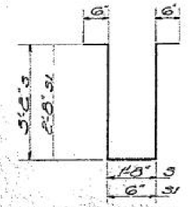
SECTION B-B



SECTION C-C



SECTION A-A



BAR s1 s1

DESIGNED	K.L. Liggi
CHECKED	Ishmeet Joshi
DRAWN	K.L.L. A. Barraza
CHECKED	B.F.

Jan. 15, 19 64

EXAMINED	W.L. Baumann
PASSED	
APPROVED	

Note: Bars m, m1, m2, 3 and s1 are billed with Superstructure Sheet #2

FRAMING DETAILS
S.B.I. RT. 30 SEC. 148R-2
STARK COUNTY
STA. 129+15

OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 1/24/2018	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

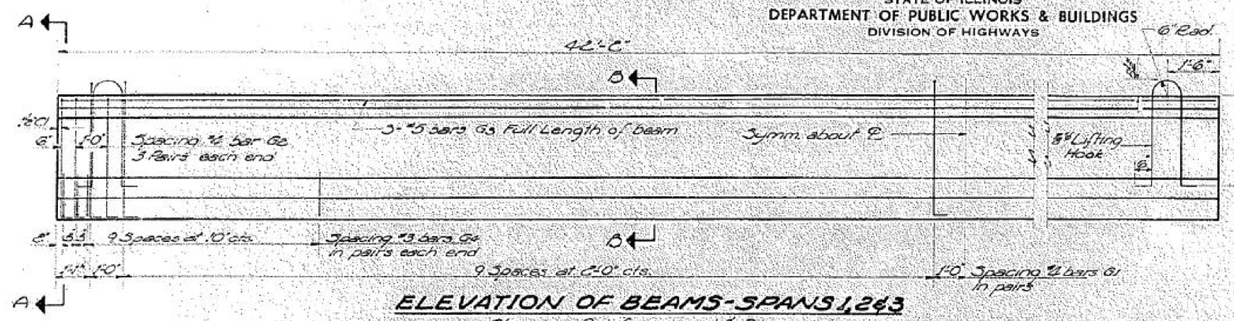
EXISTING BRIDGE PLANS FOR INFORMATION ONLY
SHEET NO. 28 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	51
		CONTRACT NO. 68895		
	ILLINOIS	FED. AID PROJECT		

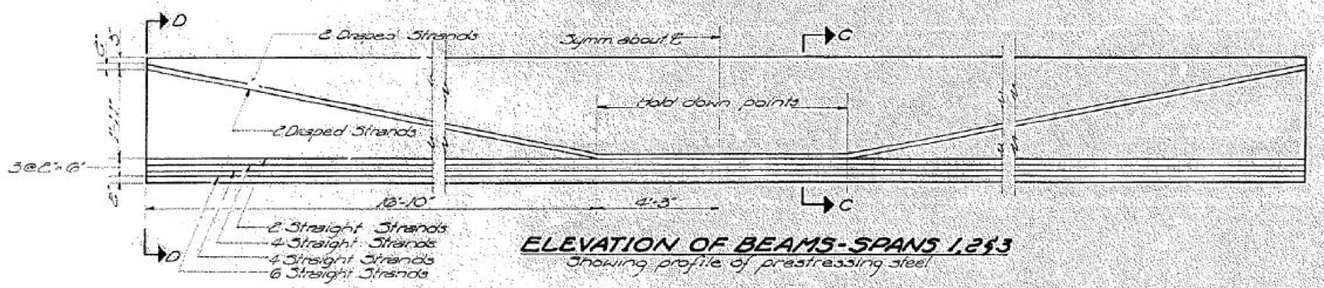
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I.R.-30	14BR-2	STARK	42	14
F.A.S. ROUTE SEC. NO.	ILLINOIS	FED. AID PROJECT		

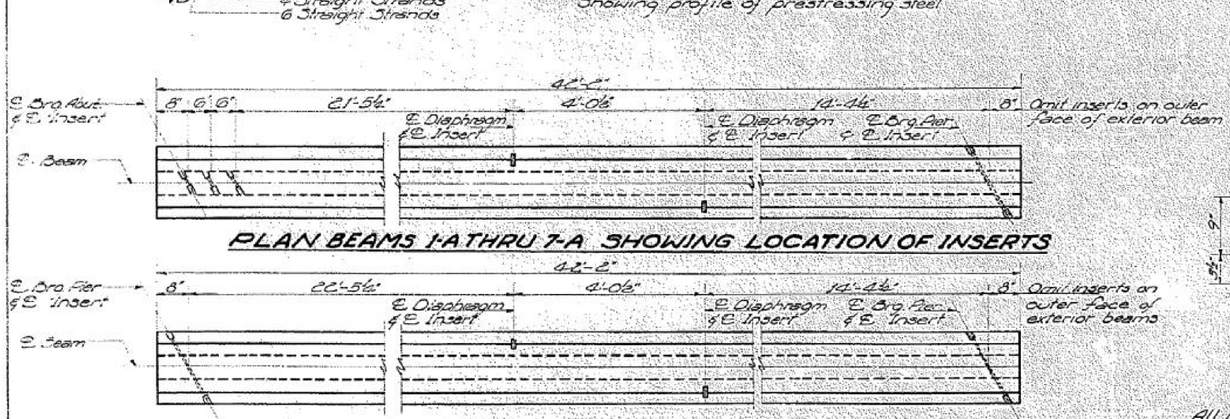
SHEET NO. 5
10 SHEETS



ELEVATION OF BEAMS-SPANS 1,2&3
Showing Reinforcement & Dimensions

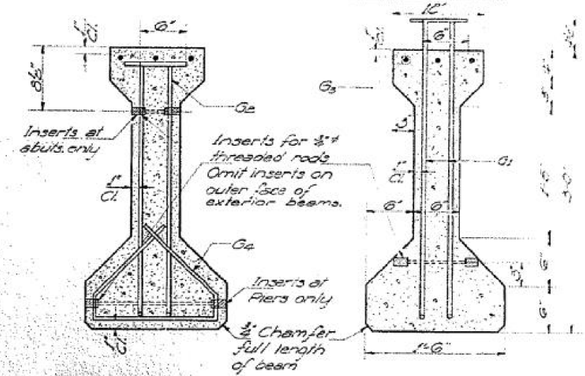


ELEVATION OF BEAMS-SPANS 1,2&3
Showing profile of prestressing steel



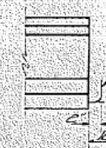
PLAN BEAMS 1-A THRU 7-A SHOWING LOCATION OF INSERTS

PLAN BEAMS 1-B THRU 7-B SHOWING LOCATION OF INSERTS

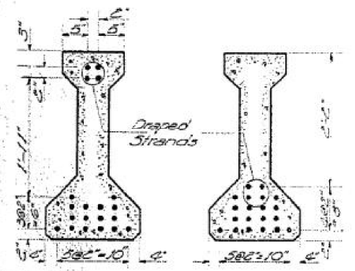


SECTION A-A

SECTION B-B

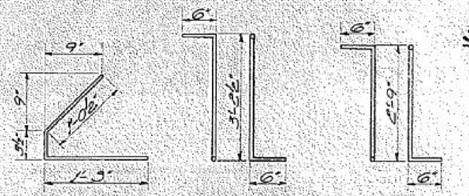


DETAIL AT END OF EXTERIOR BMS. OVER PIERS



SECTION D-D

SECTION C-C



BAR G4

BAR G1

BAR G2

BAR SCHEDULE

Bar	No.	Size	Length	Shape
G1	840	#4	8'-2⅝	7L
G2	252	#4	3'-9"	7L
G3	63	#5	42'-11"	—
G4	1008	#3	2'-7"	C

NOTES

All inserts and threaded rods for inserts reinforcing and Prestressing Steel and other items which are cast into the Precast Concrete I-Beams shall be included in the contract unit price per linear foot of "Furnishing and Erecting Precast Prestressed Concrete I-Beams 36 in."

See Supplemental Specs., effective March 2, 1964 for information regarding materials, prestressing equipment, construction and handling methods and other requirements for Precast Prestressed Concrete I-Beams.

Prestressing Steel shall have a nominal diameter of ½".

Inserts for ⅝" threaded rods are to be two strut coil type at Abuts. and Piers and single coil, flared loop type at diaphragms and for exterior I-Beams.

Steel for lifting hooks shall be non-deformed bars of structural or intermediate grade billet steel.

BILL OF MATERIAL

Item	Unit	Total
Furnishing & Erecting Precast Prestressed Concrete I-Beams 36"	Lin. Ft.	596

DESIGNED	A. L. Pugh
CHECKED	Rhoog Farhi
DRAWN	A Barraza
CHECKED	B. J.

Jan. 15 1964

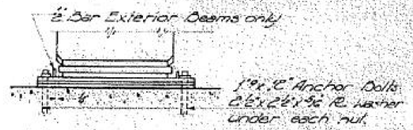
EXAMINED M. E. Baumann
DIRECTOR OF BRIDGE AND TRAFFIC STRUCTURES
PASSED E. E. Hart
ENGINEER OF BRIDGES
APPROVED U. E. Duff
ENGINEER OF DESIGN

BEAM DETAILS
S.B.I. RT. 30 SEC. 14BR-2
STARK COUNTY
STA. 129+15

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 30 / F.A.	14R-2 / 43R-3	STARK	42	17
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT:		

SHEET NO. 6
10 SHEETS



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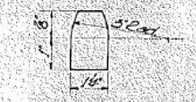
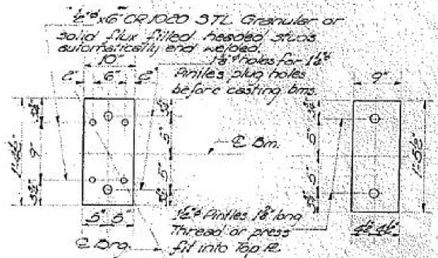
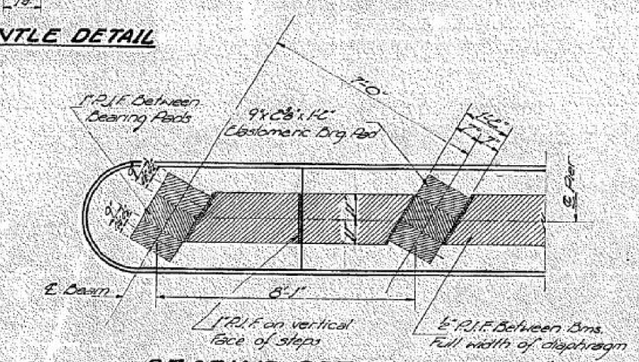
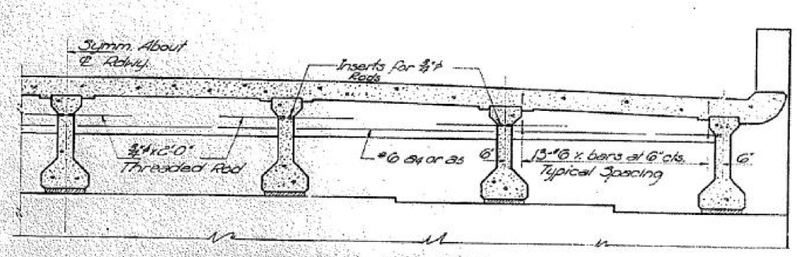
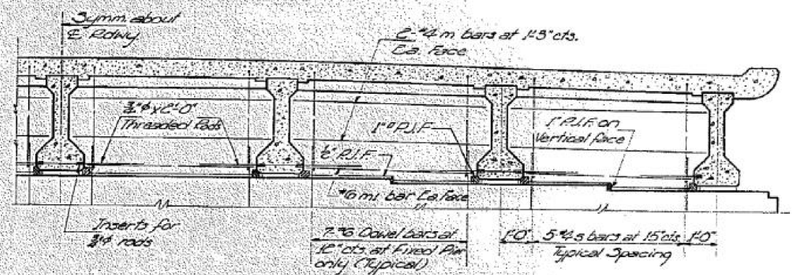


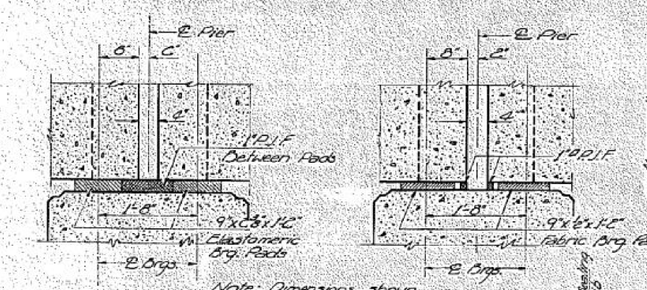
PINTLE DETAIL

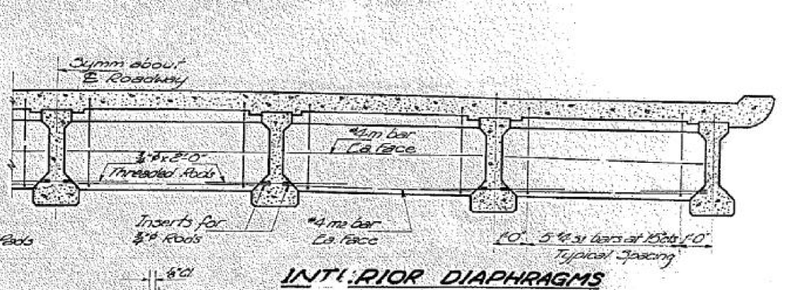










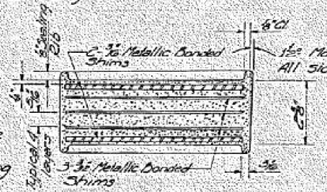


DESIGNED	K. L. Riggi	EXAMINED	Jan. 15 1964
CHECKED	Behroz Tabli	PASSED	
DRAWN	A. Garreza	APPROVED	
CHECKED	B. T.		

TABLE OF "A" DIMENSIONS

Brg. No.	1	2	3	4	5	6	7
Loc.							
All Brgs.	0	0	6	3/4	0	0	0

Note: Elastomeric Bearing Pads shall be grade 50
Cost of Elastomeric & Fabric Bearing Pads shall be incidental to "Furnishing & Erecting P.P.C. I-Bms." See Special Prov.
Cost of Rocker PL cast into bm. is included in the cost of "Furnishing & Erecting P.P.C. I-Bms."



ELASTOMERIC BRG. PAD DETAIL

BEARING DETAILS
S.B.I. RT. 30 SEC. 14 BR-2
STARK COUNTY
STA. 129+15

OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE = 1/24/2018	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

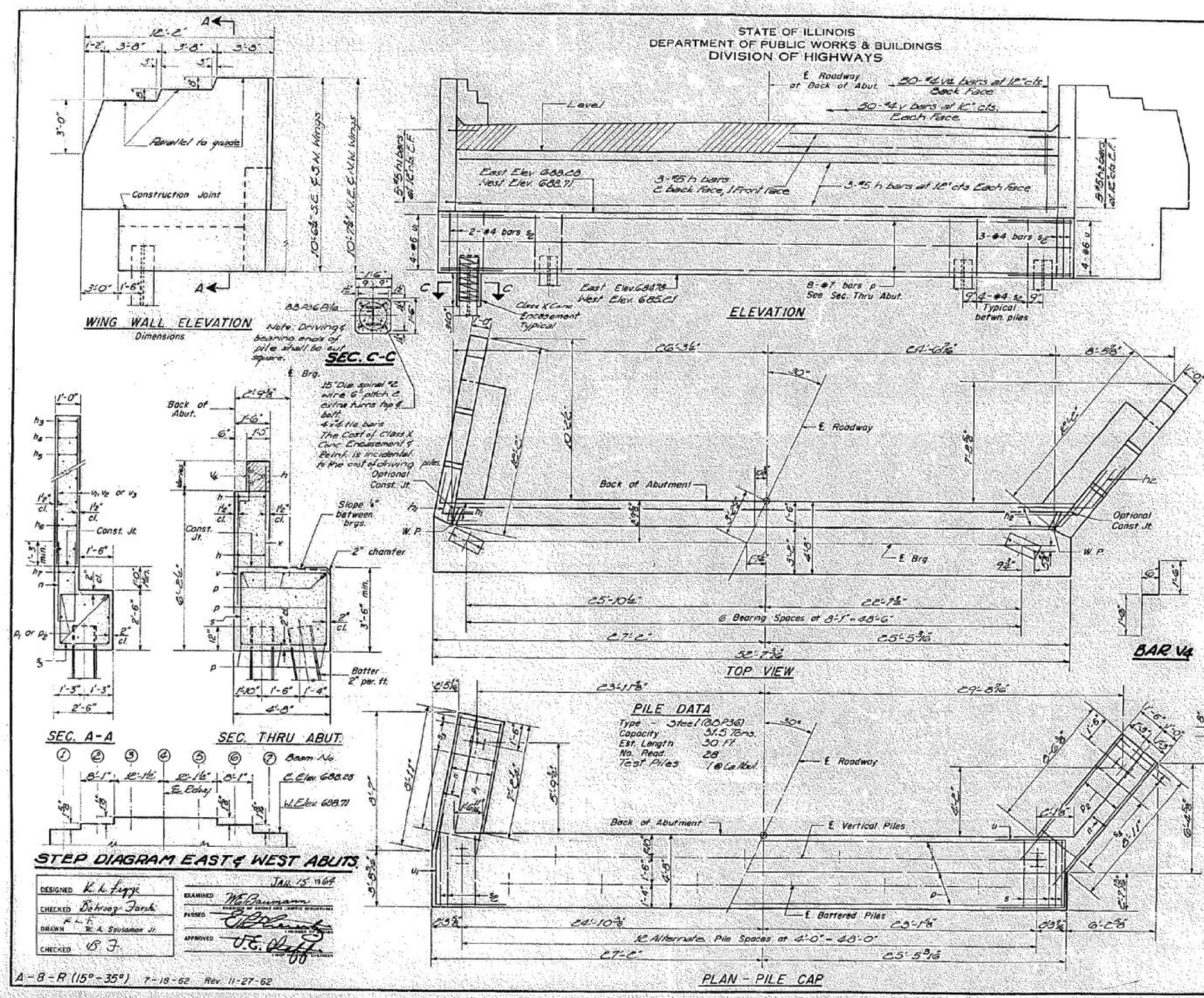
EXISTING BRIDGE PLANS FOR INFORMATION ONLY
SHEET NO. 30 OF 32 SHEETS

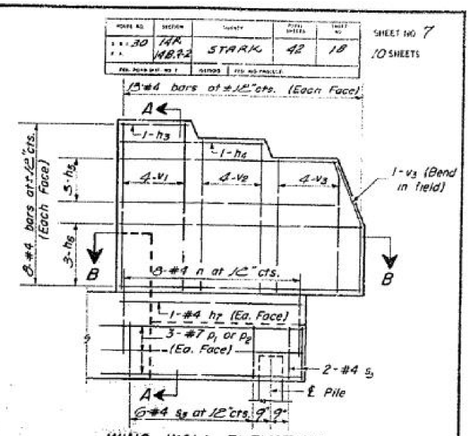
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	53
			CONTRACT NO. 68895	
	ILLINOIS	FED. AID PROJECT		

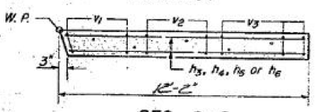
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I.-.30	14R. WB-2	STARK	42	18
F.A. ROUTE NO.	SECTION	FED. AID PROJECT		

SHEET NO. 7
10 SHEETS







SEC. B-B

TWO ABUTMENTS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	36	#5	26'-6"	—
h1	20	#5	5'-0"	L
h2	20	#5	5'-6"	L
h3	8	#4	3'-0"	—
h4	8	#4	7'-2"	—
h5	24	#4	10'-2"	—
h6	24	#4	11'-10"	—
h7	8	#4	8'-9"	—
n	32	#4	7'-9"	U
p	16	#7	32'-0"	—
p1	12	#7	8'-9"	—
p2	12	#7	9'-3"	—
s2	106	#4	15'-5"	DD
s3	32	#4	9'-5"	
u	8	#6	9'-4"	U
u1	8	#6	8'-6"	U
v	200	#4	4'-6"	—
v1	32	#4	6'-10"	—
v2	32	#4	6'-2"	—
v3	40	#4	5'-6"	—
v4	100	#4	3'-6"	⌐
Class X Concrete			Cu. Yds.	102.8
Reinforcement Bars			Lbs.	6710
Steel Piles (BBP36)			Lin. Ft.	820
Test Piles Steel (BBP36)			Ea.	2

DESIGNED	K. L. Fuqua	EXAMINED	JAN. 15 1964
CHECKED	Dahraaj Parsh	PASSED	
DRAWN	K. L. F. W. A. Soulaman Jr.	APPROVED	
CHECKED	S. J.		

A-8-R (15°-35°) 7-18-62 Rev. 11-27-62

ABUTMENTS S.B.I. RT. 30 SEC. 14BR-2 STARK COUNTY STA. 129+15

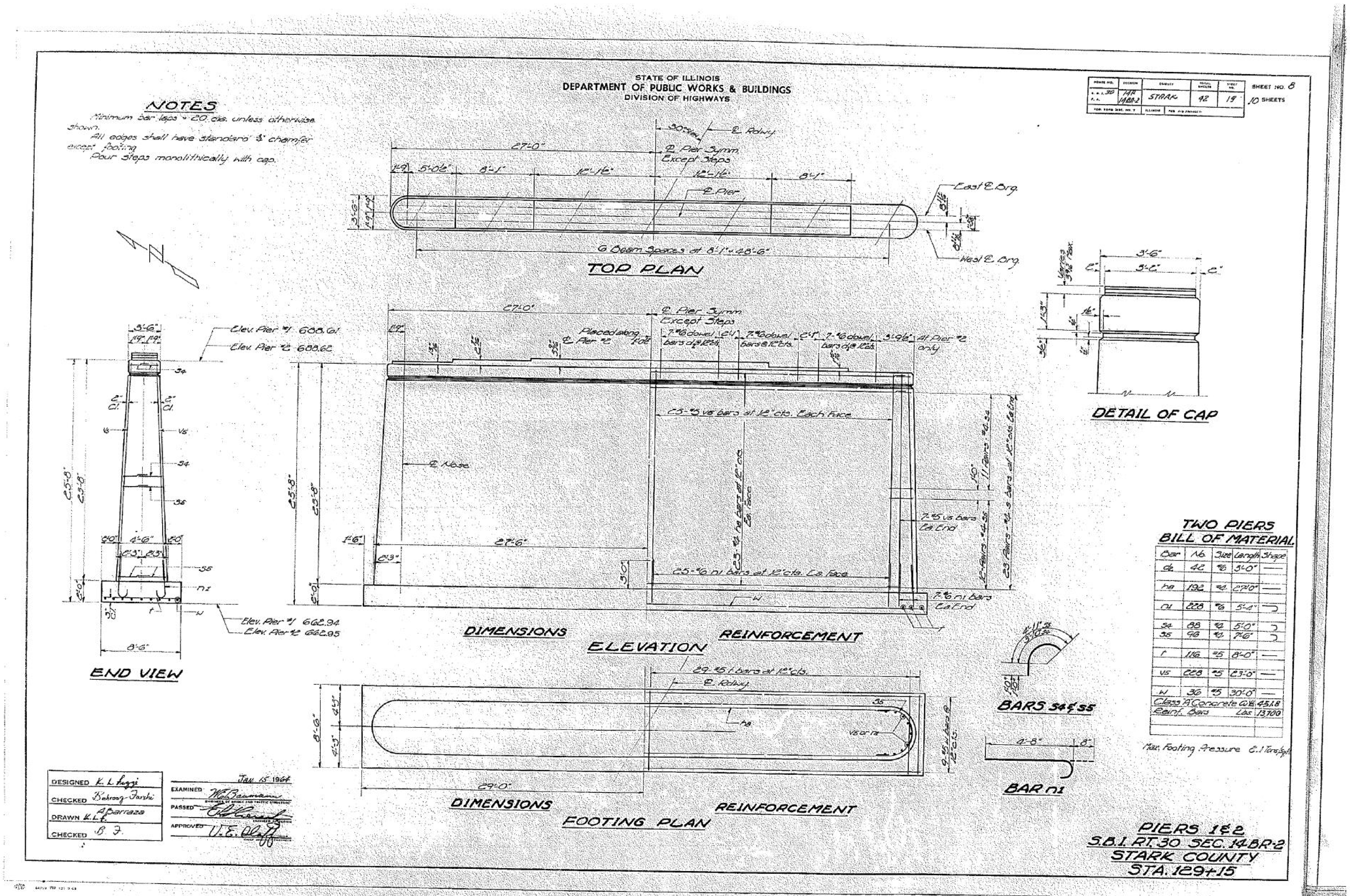
FILE NAME = N:\PW\24048\WD 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\088800320-68895-031-Existing Bridge Plans for Information Only.dgn

OATES ASSOCIATES — ILLINOIS DESIGN FIRM LICENSE NO: 184.001115			
USER NAME =	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE =	DRAWN -	REVISED -	
PLOT DATE = 1/24/2018	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS FOR INFORMATION ONLY
SHEET NO. 31 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	54
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			



TWO PIERS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d2	42	#6	5'-0"	—
h8	192	#4	27'-0"	—
n1	228	#6	5'-4"	⊃
s4	88	#4	5'-0"	⊃
s5	96	#4	7'-6"	⊃
r	116	#5	8'-0"	—
vs	228	#5	23'-0"	—
w	36	#5	30'-0"	—
Class "A" Concrete Cu. Yd.				451.8
Reinf. Bars Lbs.				13,700

Max. Footing Pressure 2.1 Tons/Sq. Ft.

OATES ASSOCIATES ILLINOIS DESIGN FIRM LICENSE NO: 184.001115	USER NAME =	DESIGNED -	REVISED -
		CHECKED -	REVISED -
	PLOT SCALE =	DRAWN -	REVISED -
	PLOT DATE = 1/24/2018	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS FOR INFORMATION ONLY

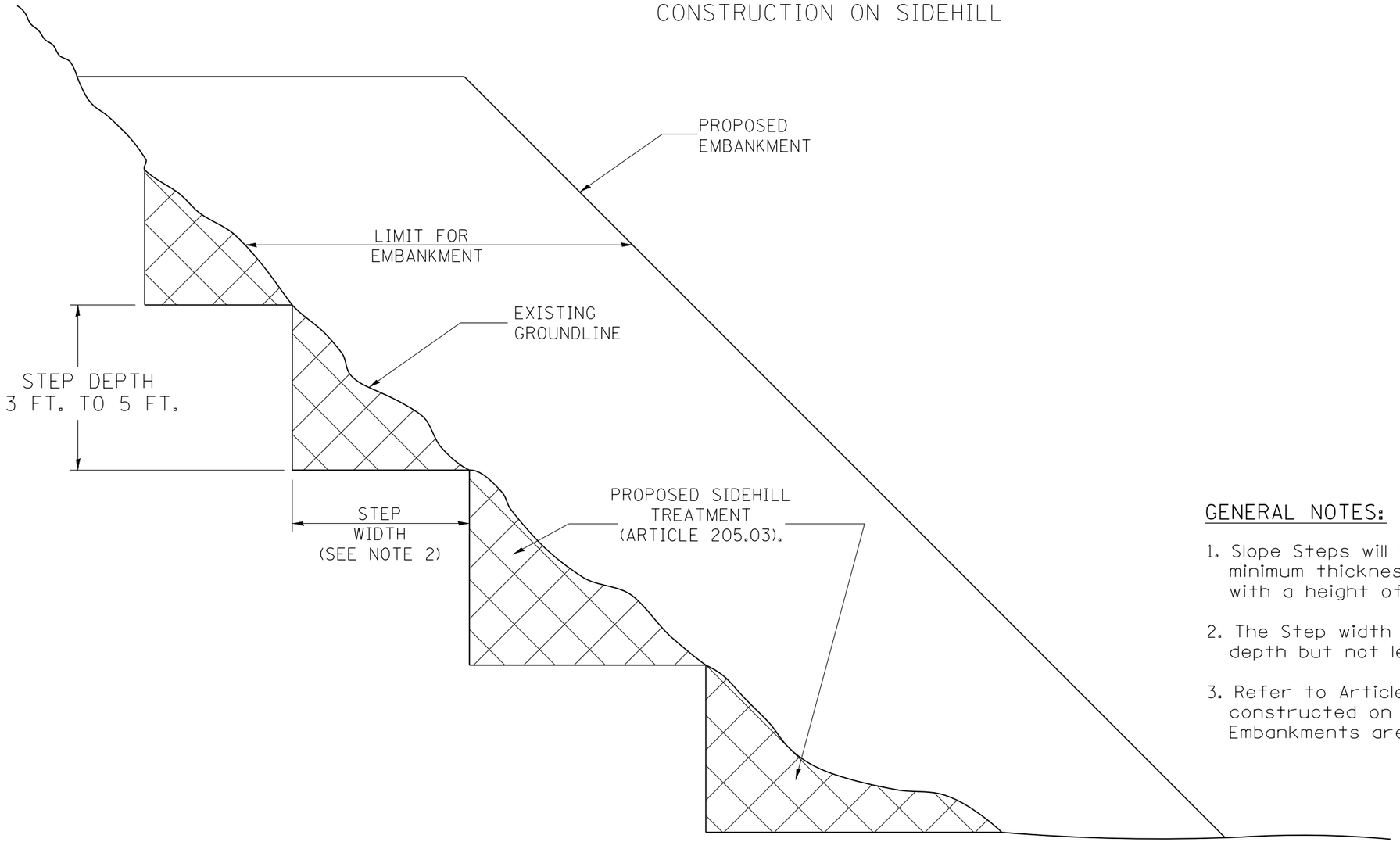
SHEET NO. 32 OF 32 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	55
CONTRACT NO. 68895				
ILLINOIS FED. AID PROJECT				

FILE NAME = H:\P\29048\WO 13 SN088-0032 IL 17 over Indian Creek Phase II PSE\Structural\Final Plans\Microstation\0880032-68895-032-Existing Bridge Plans for Information Only.dgn

SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

1. Slope Steps will be required for all 12'' minimum thickness ''sliver fills'' and on fills with a height of 10'(3.0m).

2. The Step width shall be twice the Step depth but not less than 6 feet.

3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

REPLACEMENT MATERIAL:

STANDARD EMBANKMENT (IN ACCORDANCE WITH 205 OF THE STANDARD SPECIFACATION).

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

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE	T.P.									
	BOX, REVISED GENERAL NOTES.										
10-16-06	REVISED TO 2007 SPEC.	M.A.									

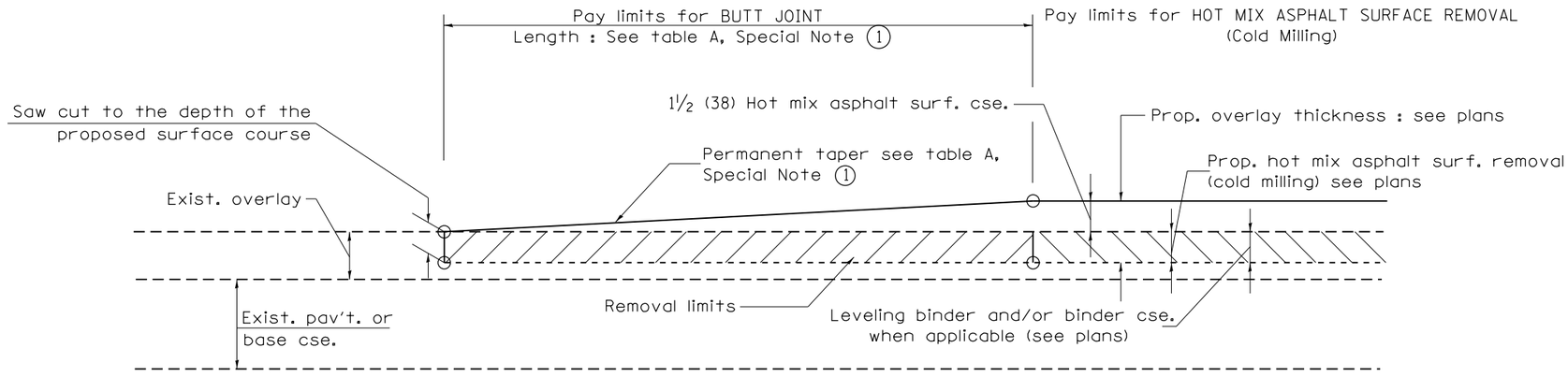
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 4 STANDARDS
SLOPE STEPS DETAIL

NOT TO SCALE

CADD STD. 205001-D4

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	56
		CONTRACT NO. 68895		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



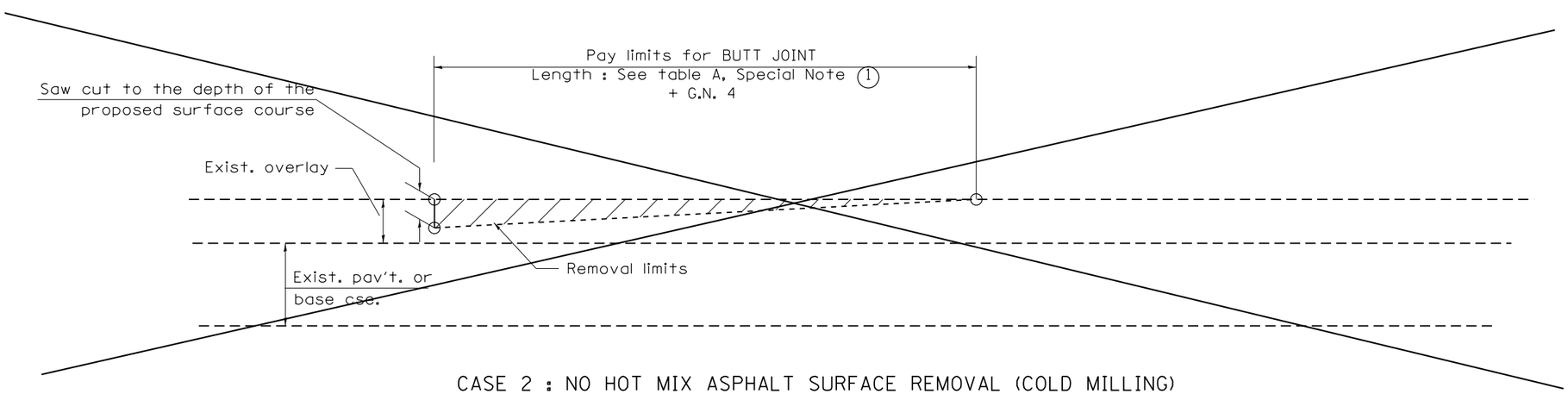
CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

TABLE A
TAPER RATES

SPECIAL NOTE NUMBER	ELEMENT	MAINLINE INTERSTATES & 4-LANE EXPRESSWAYS	ALL OTHERS
(1)	BUTT JOINT TAPER RATE	1:480	1:240
(2)	TEMPORARY RAMP TAPER RATE	1:80	1:40

GENERAL NOTES

1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.
2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.
3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.
4. The length of butt joint is based on the taper rate times change in cold miling depth within the butt joint pay limits, unless otherwise indicated.
5. Temporary ramps are paid for separately and not included in the cost of the butt joints.



CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

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

01-01-97	RENUM. C-23.01, NEW REVISION BOX	T.P.	08-21-13	MAJOR MODIFICATIONS	R.D.
04-01-97	CORRECTION TO DEPTH	J.A.	02-29-16	MINOR CORRECTIONS	R.D.
09-15-05	REVISED DESIGNER NOTE	M.M.A.	04-12-16	MINOR CORRECTIONS	R.D.
10-16-06	REVISED TO 2007 SPEC.	M.A.	02-14-17	ADDED NOTE 5	R.D.

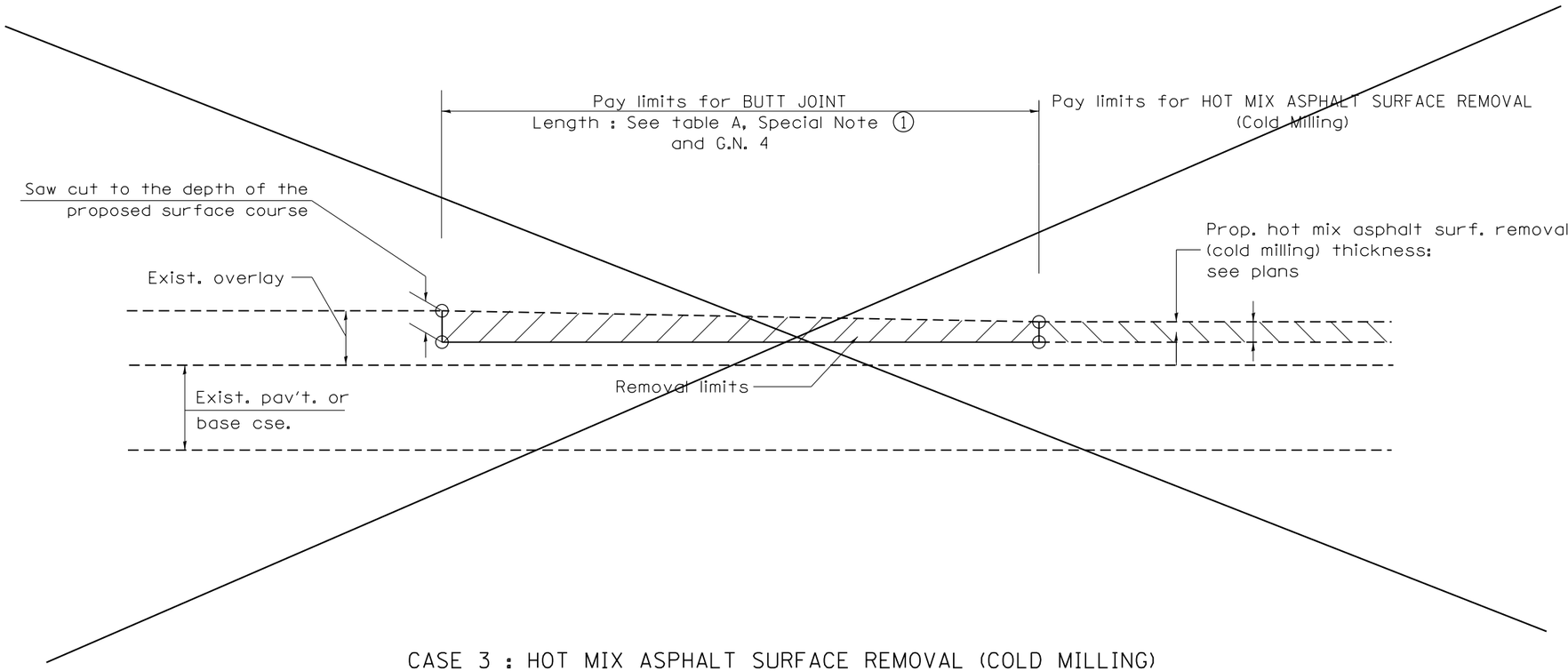
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

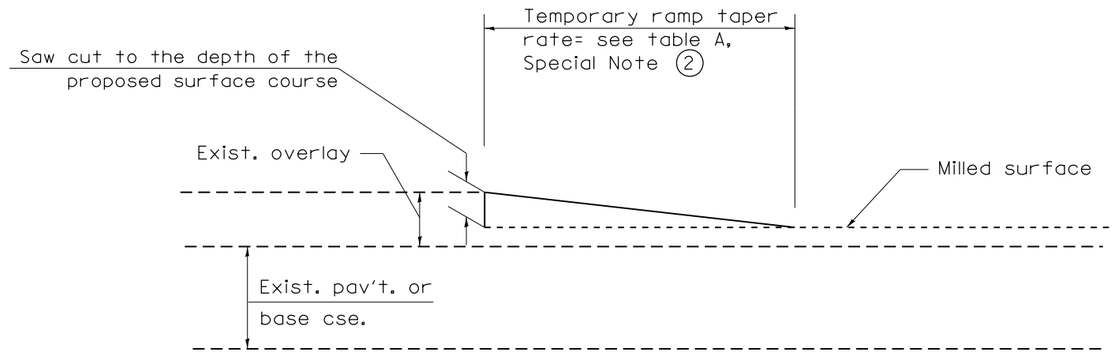
BUTT JOINTS

SHT. 1 OF 3
CADD STD. 406101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	57
		CONTRACT NO. 68895		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CASE 3 : HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER



DETAIL TEMPORARY RAMP

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

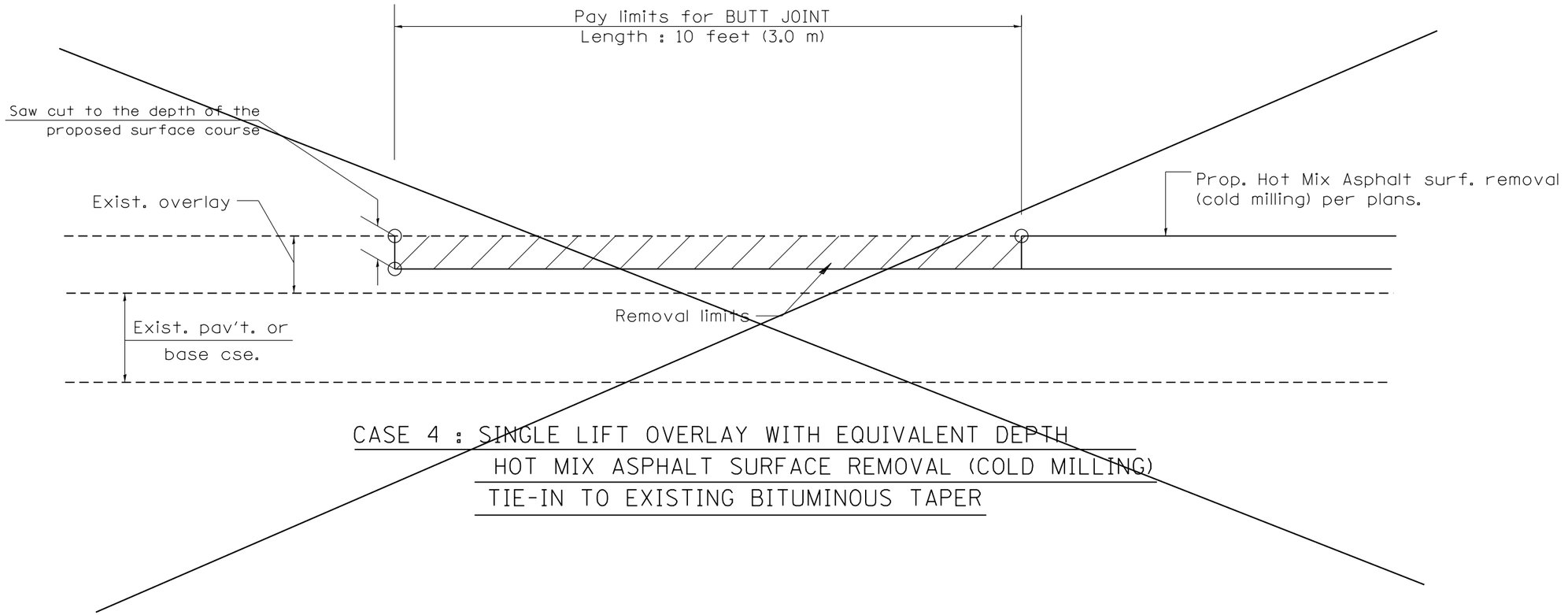
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOT TO SCALE

BUTT JOINTS

SHT. 2 OF 3
CADD STD. 406101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	58
		CONTRACT NO. 68895		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CASE 4 : SINGLE LIFT OVERLAY WITH EQUIVALENT DEPTH
HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
TIE-IN TO EXISTING BITUMINOUS TAPER

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINTS

NOT TO SCALE

SHT. 3 OF 3
CADD STD. 406101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	59
		CONTRACT NO. 68895		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

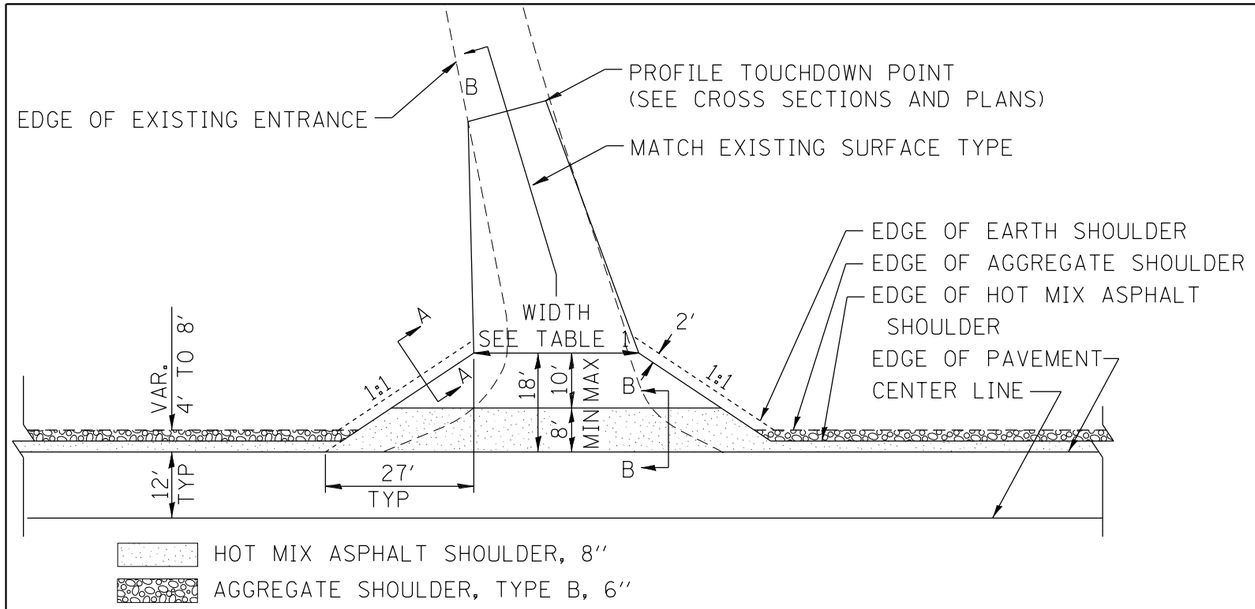
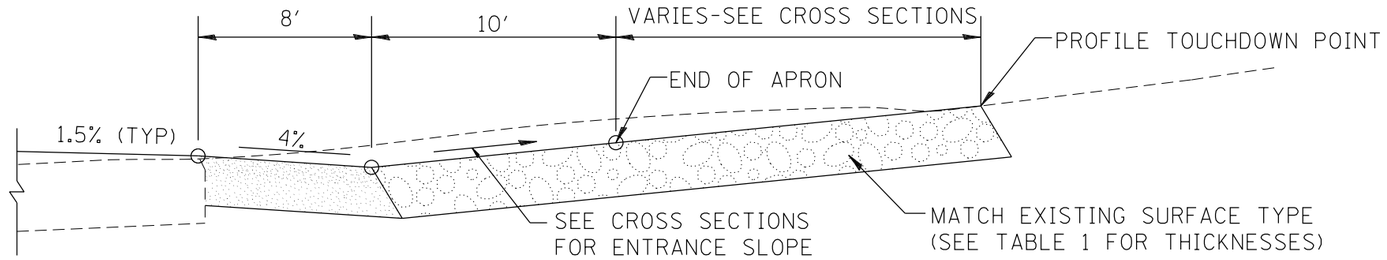


TABLE 1								
RURAL ENTRANCE DESIGN								
ELEMENT	NON-COMMERCIAL		NON-COMMERCIAL W/ LARGE FARM EQUIPMENT		COMMERCIAL			
					1-WAY OPERATION		2-WAY OPERATION	
WIDTH (W)	12'(3.6m) Min.	24'(7.2m) Max.	20' (6.1m)Min.	30'(9.0m)Max.	14'(4.3m) Min.	24'(7.2m) Max.	24'(7.2m) Min.	35'(10.7m) Max.
FLARE	1:1.5							
MAX. GRADE (G)	12%		12%		10%			
SURFACE TYPE								
INCIDENTAL HOT MIX ASPHALT SURFACING	6''		—		8''			
AGGREGATE SURFACE COURSE	6''		8''		—			
PCC DRIVEWAY PAVEMENT	6''		—		7''			

PLAN

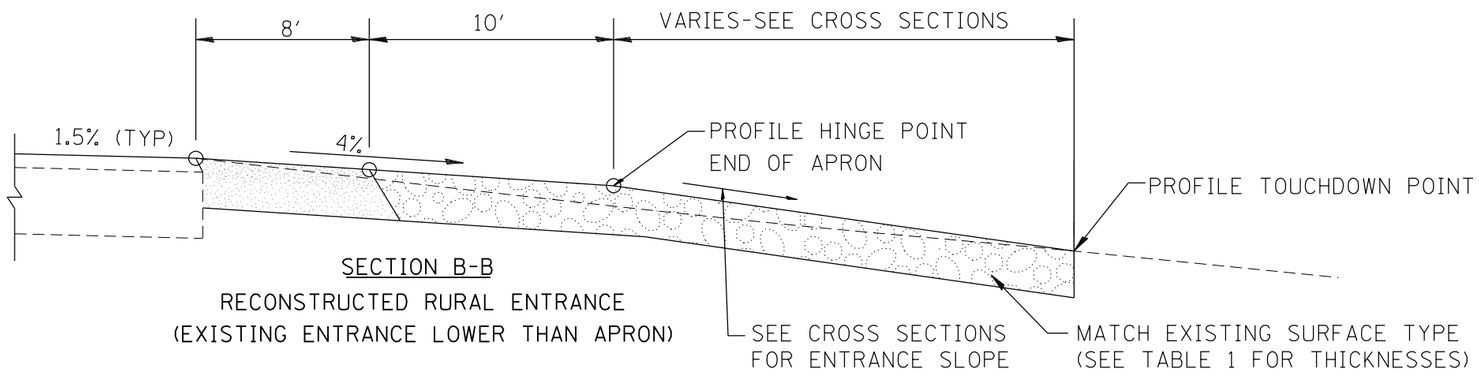
COMMERCIAL / FARM-RELATED ENTRANCE



SECTION B-B

RECONSTRUCTED RURAL ENTRANCE

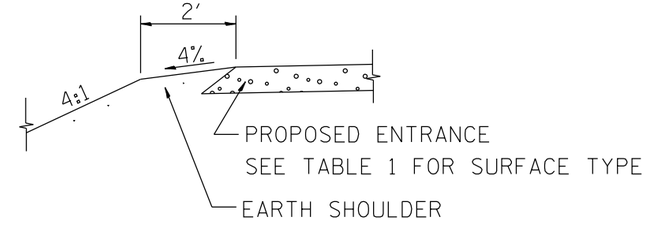
(EXISTING ENTRANCE HIGHER THAN APRON)



SECTION B-B

RECONSTRUCTED RURAL ENTRANCE

(EXISTING ENTRANCE LOWER THAN APRON)



SECTION A-A

SHOULDER TREATMENT FOR RURAL ENTRANCES

GENERAL NOTES

1. ENTRANCES SHALL SLOPE AWAY FROM THE PAVEMENT AT A RATE EQUAL TO THE SHOULDER SLOPE FOR A MINIMUM DISTANCE OF 8'.

2. A MINIMUM 8' PAVED SHOULDER SHALL BE CONSTRUCTED BETWEEN LOCATIONS WHERE THE RURAL ENTRANCE IS LESS THAN 50' FROM AN ADJACENT SIDEROAD, ENTRANCE OR MAILBOX TURNOUT.

3. A TAPER RATE OF 5:1 IS DESIRABLE WHEN TRANSITING FROM THE RURAL ENTRANCE WIDTH SHOWN IN TABLE 1, TO THE EXISTING ENTRANCE WIDTH.

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

01-01-97	RENUM. C-103.06, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
07-01-97	REVISE DESIGNER NOTES	J.A.	9-15-15	UPDATED TABLE 1	R.D.
01-17-03	ADJUST DESIGN, CHANGE ENTRANCE	JATR	2-29-16	MINOR CORRECTIONS	R.D.
09-15-05	RADIUS FOR FLARE	M.M.A.	5-9-17	CHANGED TAPER RATE	R.D.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

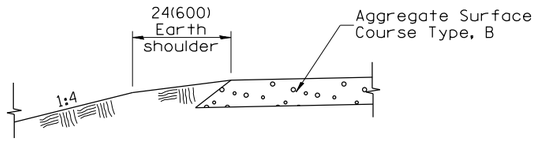
RURAL ENTRANCES FOR "3R" PROJECTS

NOT TO SCALE

SHT. 1 OF 2

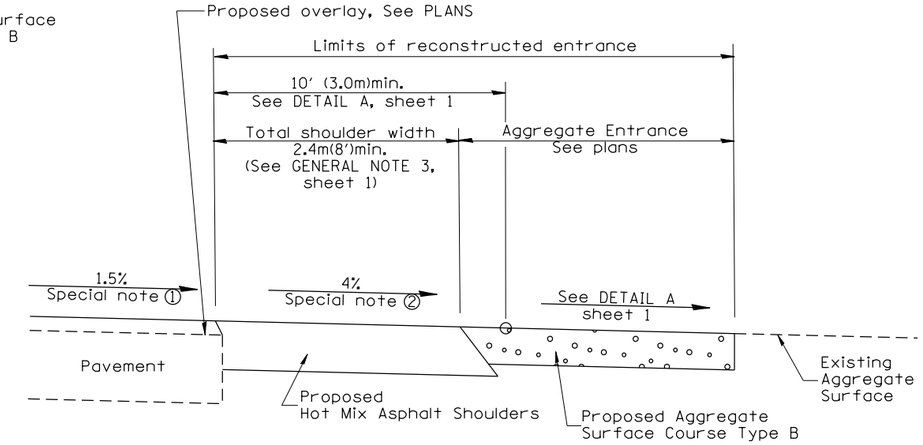
CADD STD. 406301-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	60
		CONTRACT NO. 68895		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



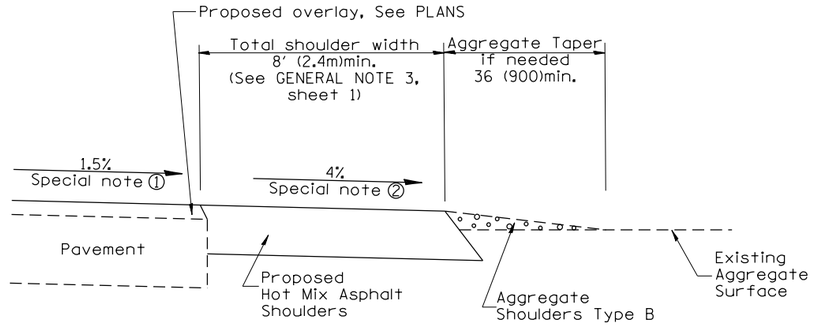
SECTION A-A

SHOULDER TREATMENT FOR AGGREGATE ENTRANCES



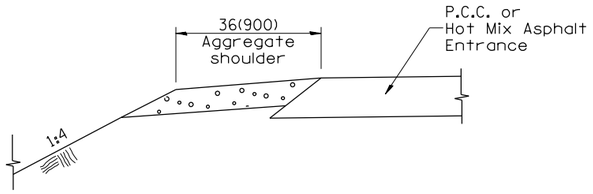
SECTION B-B

RECONSTRUCTED AGGREGATE ENTRANCE



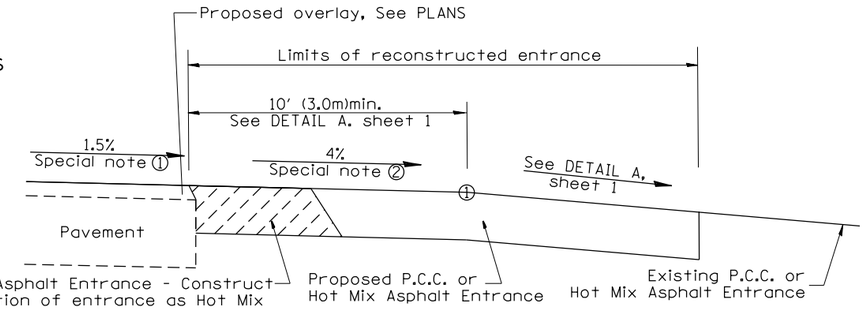
SECTION B-B

EXISTING AGGREGATE ENTRANCE



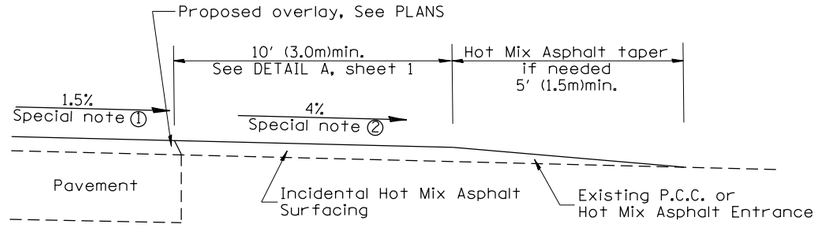
SECTION C-C

SHOULDER TREATMENT FOR P.C.C. OR HOT MIX ASPHALT ENTRANCES



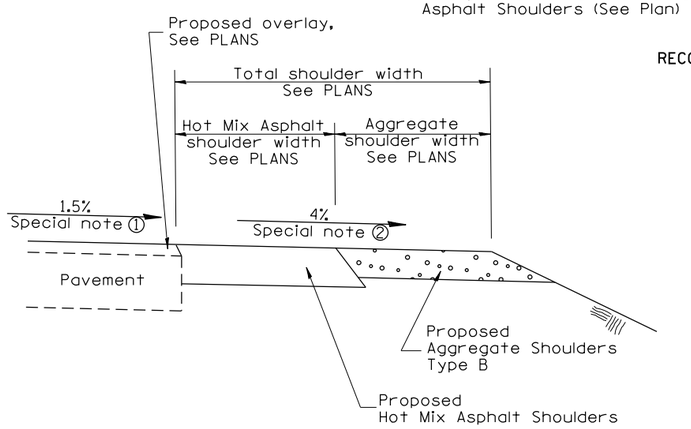
SECTION D-D

RECONSTRUCTED P.C.C. OR HOT MIX ASPHALT ENTRANCE



SECTION D-D

EXISTING P.C.C. OR HOT MIX ASPHALT ENTRANCE



SECTION E-E

MAINLINE SHOULDER TREATMENT

SPECIAL NOTES

(1) The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on superelevated horizontal curves.

(2) The shoulder slope shall control the entrance profile for a distance of 10' (3.0m) minimum from the pavement edge. The shoulder cross-slope is 4% for tangent alignment. Through superelevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6' (1.8m) and wider and 12% for shoulders 4' (1.2m) and less. Where 12' (366cm) paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

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

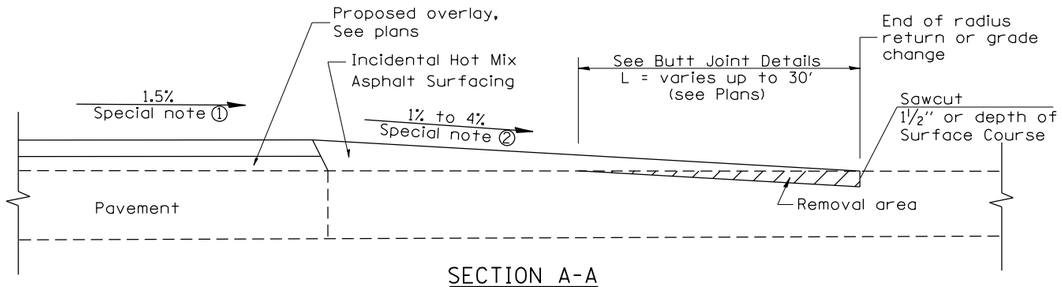
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RURAL ENTRANCES FOR "3R" PROJECTS

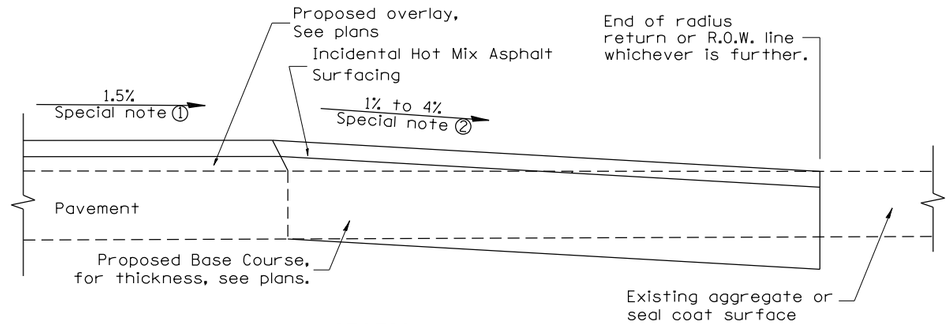
NOT TO SCALE

SHT. 2 OF 2
CADD STD. 406301-D4

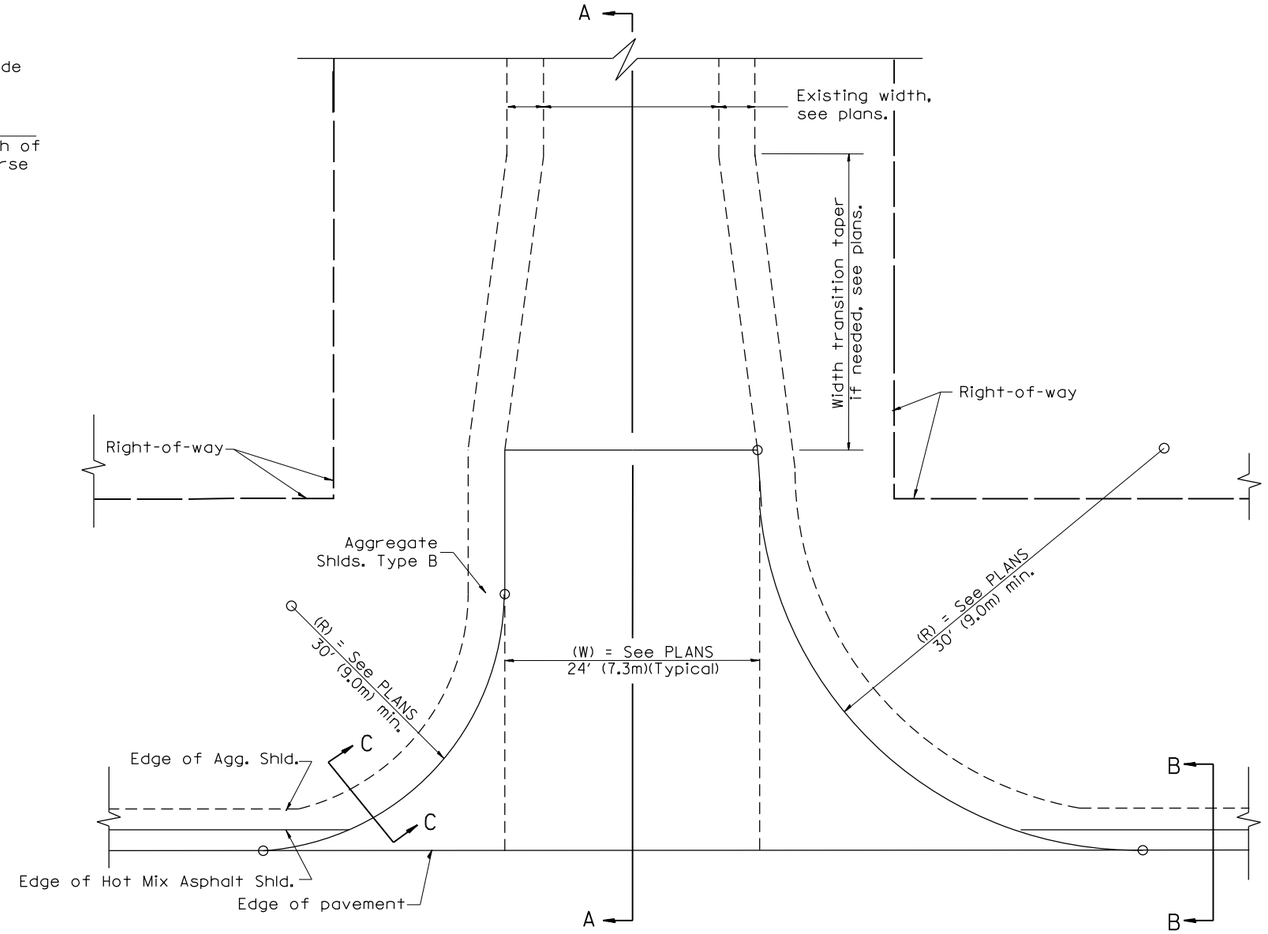
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	61
		CONTRACT NO. 68895		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



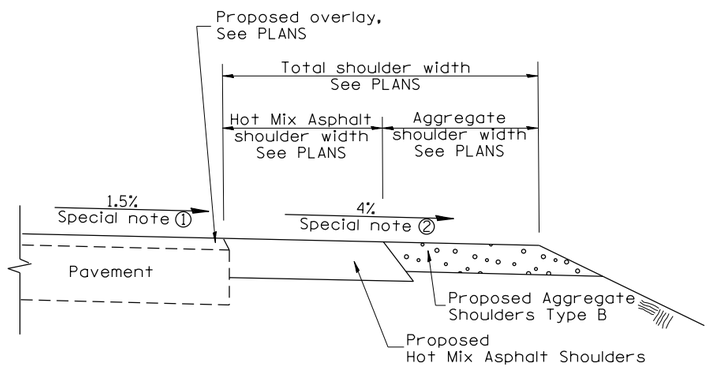
SECTION A-A
EXISTING PCC OR HOT MIX ASPHALT SIDEROAD



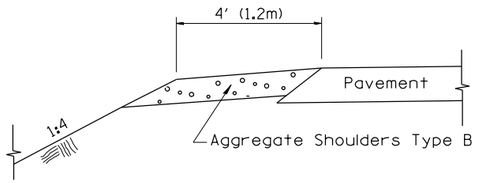
SECTION A-A
EXISTING AGGREGATE OR SEAL COAT SIDEROAD



PLAN



SECTION B-B
MAINLINE SHOULDER TREATMENT



SECTION C-C
SIDEROAD SHOULDER TREATMENT

SPECIAL NOTES

① The mainline pavement cross-slope is 1.5% for tangent alignment. See Plans for cross-slope on superelevated horizontal curves.

② The sideroad profile should drain away from the mainline at 1% to 4% for 50' (15.0m) to 100' (30.0m), or as a minimum to the end of the radius return. When the sideroad is on the high side of a mainline superelevated curve, - 2% maximum should be provided in order to minimize breakover at the pavement edge. See plans for sideroad profiles.

DESIGNER NOTES:
1. DESIGNER SHOULD CONSULT CHAPTER 49 OF THE BDE MANUAL.
2. THIS CADD STANDARD IS FOR 3R PROJECTS AND NOT REALLY INTENDED FOR SMART OR 3P.

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

01-01-97	RENUM. C-105.02, NEW REVISION BOX	T.P.	02-14-17	MINOR REVISIONS	R.D.	
07-01-97	REVISE DESIGNER NOTES	J.A.				
09-15-05	REVISED DESIGNER NOTE	M.M.A.				
10-16-06	REVISED TO 2007 SPEC.	M.A.				

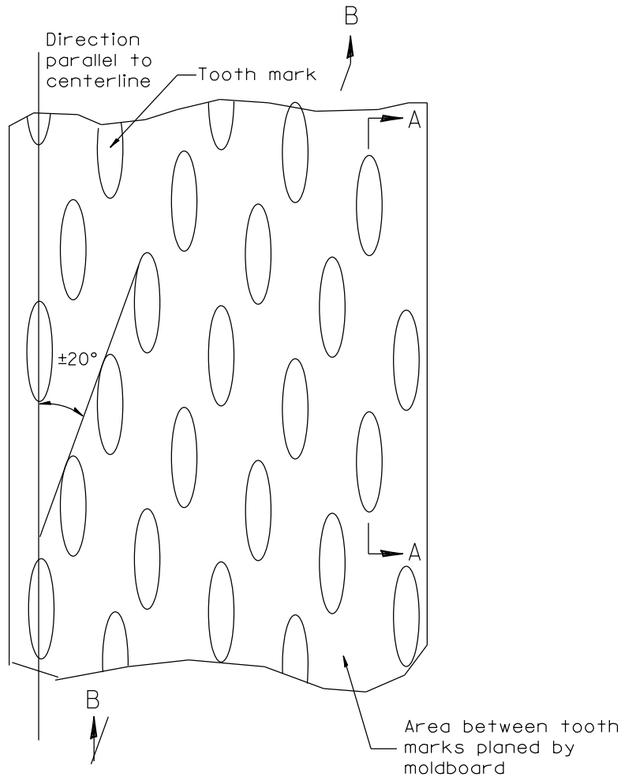
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RURAL SIDEROADS FOR "3R" PROJECTS

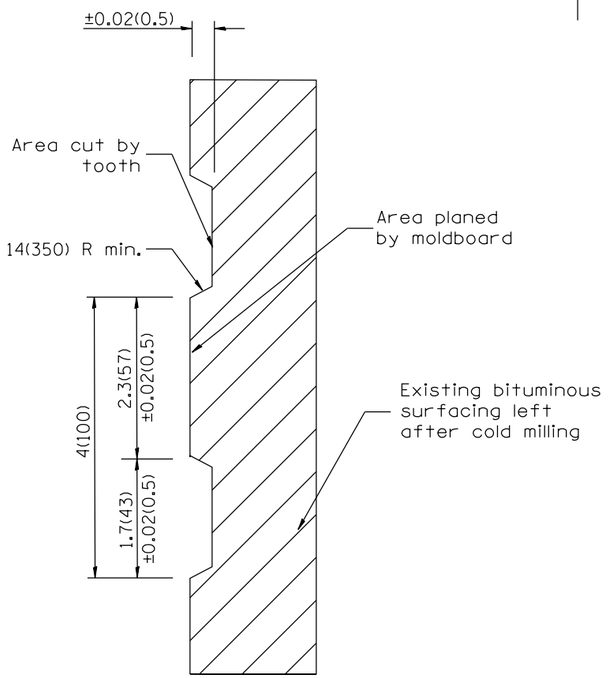
NOT TO SCALE

CADD STD. 406401-D4

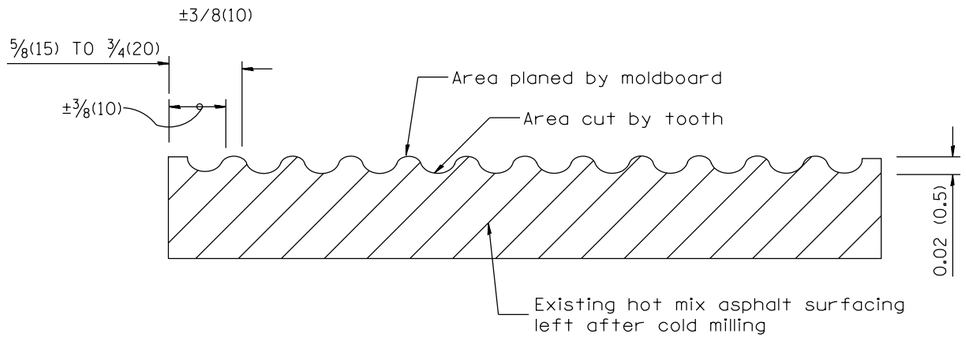
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	62
		CONTRACT NO. 68895		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN



SECTION A-A



SECTION B-B PROJECTED
PERPENDICULAR TO CENTERLINE

General notes:

1. Coldmilling shall consist of two processes: Cutting with carbide teeth mounted on a rotating drum, and planing with a moldboard mounted immediately behind the cutting drum.
2. Other similar patterns will be acceptable if they consist of a smooth, flat, planed surface interspersed with a pattern of discontinuous longitudinal striations.

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

01-01-97	RENUM. C-104.01, NEW REVISION BOX	T.P.			
04-20-98	REMOVED MILLING DETAIL FROM STANDARD	J.A.			
09-08-98	CORRECT NOTE LEADER PLACEMENT	R.W.			
10-16-06	REVISED TO 2007 SPEC.	M.A.			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

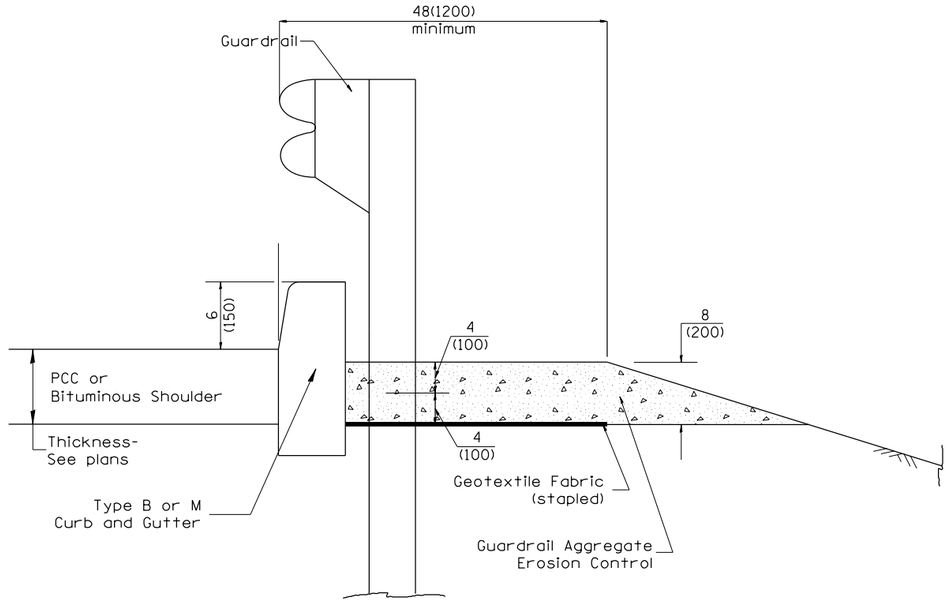
DISTRICT 4 STANDARDS
HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

NOT TO SCALE — CADD STD. 440001-D4

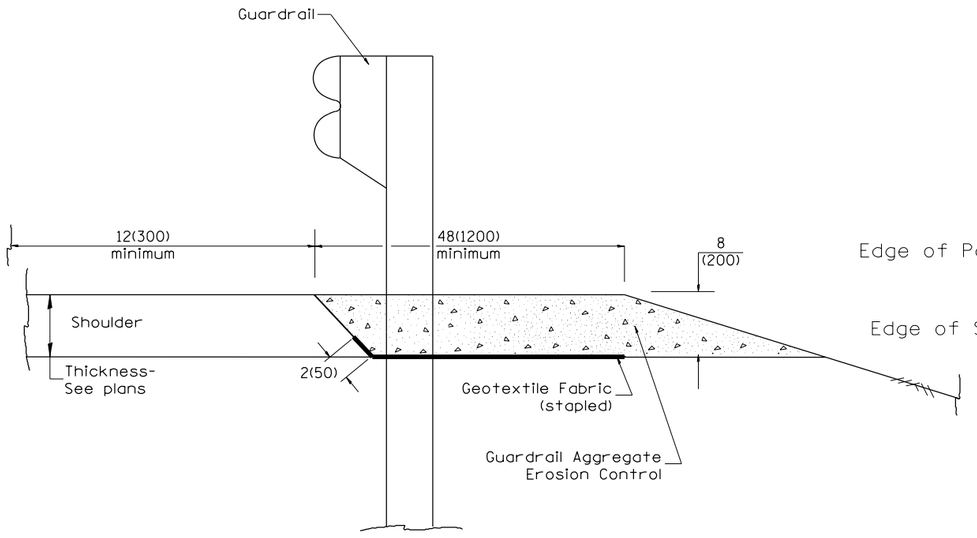
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	63
		CONTRACT NO. 68895		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DESIGNER NOTES:

1. CONSIDER USING A "B" CURB PAY ITEM AT GUARDRAIL INSTALLATIONS WHERE GRADES ARE EQUAL TO OR GREATER THAN 1% AND AT INLETS. (INCLUDE DISTRICT SPECIAL PROVISION)
2. USE "GUARDRAIL AGGREGATE EROSION CONTROL" AT GUARDRAIL INSTALLATIONS WHERE GRADES ARE LESS THAN 1% (INCLUDE DISTRICT SPECIAL PROVISION).
3. INCLUDE STATE STANDARD 610001, IF APPLICABLE.
4. INCLUDE THE FOLLOWING DISTRICT CADD STANDARDS AS NEEDED: SLOPE DRAINS FOR EXPOSED PIPES; SLOPE DRAINS FOR BURIED PIPES; SEEPAGE COLLARS FOR BURIED PIPES
   SEEPAGE COLLARS FOR EXPOSED PIPES; CONCRETE THRUST BLOCKS AND PIPE ELBOW.
5. INCLUDE DISTRICT SPECIAL PROVISION - "AGGREGATE QUALITY" FOR PROJECTS LOCATED IN THE WESTERN AREA OF THE DISTRICT - APPROX. DIVIDING LINE IS IL 97.
6. DELETE DESIGNER NOTES WHEN INSERTING INTO PLAN FILES.
7. OPERATIONS PREFERS USE OF PIPE OUTLETTING ONTO FORESLOPE WITH RIPRAP. USE NON-METALLIC PIPE WHEN POSSIBLE BECAUSE OF FUTURE CORROSION ISSUES.
8. IF NO OTHER SEEDING IS PAID FOR ON THE CONTRACT, USE DISTRICT SPECIAL PROVISION FOR SEEDING, MINOR AREAS



TYPICAL SECTION WITH EROSION CONTROL CURB



TYPICAL SECTION WITHOUT EROSION CONTROL CURB

GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.

2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.

3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.

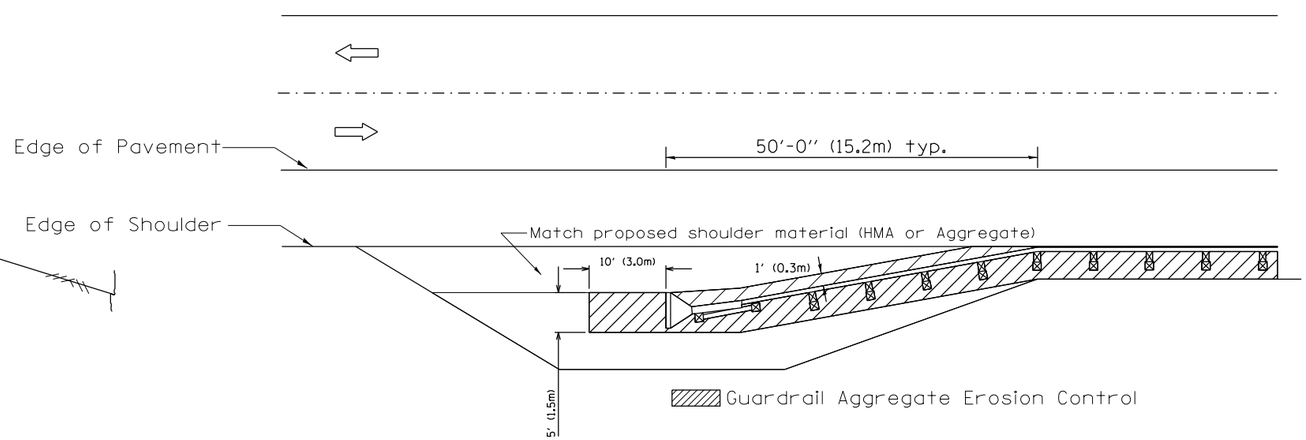
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.

5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.

6. Materials shall meet the following requirements:

   A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.

   B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.

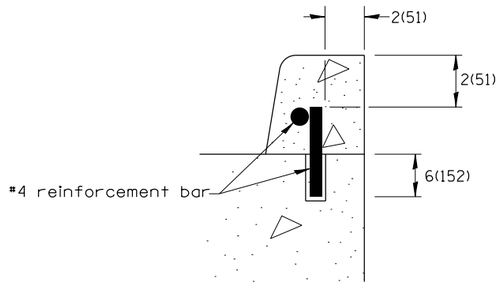


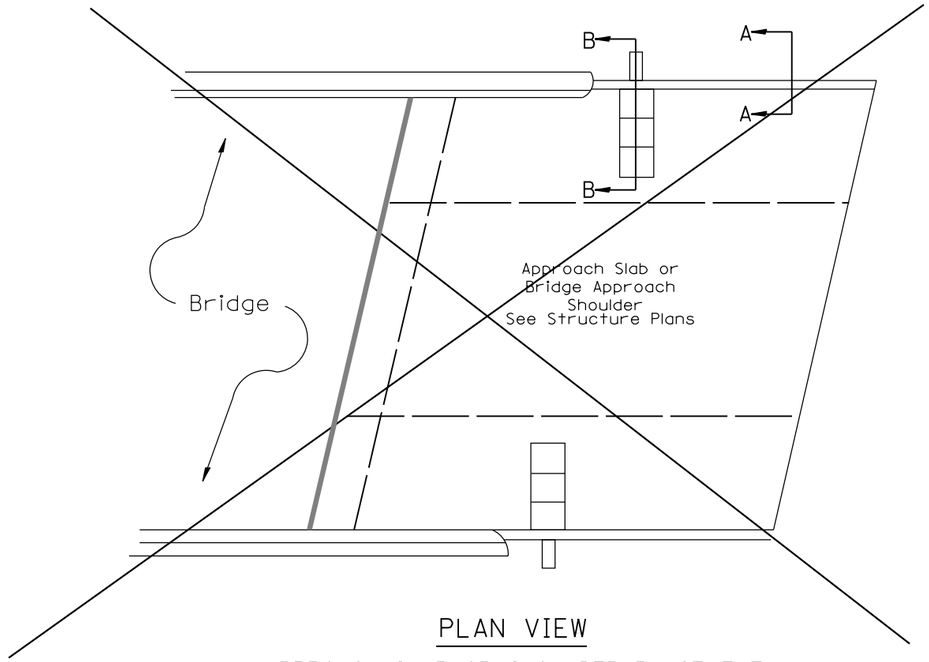
All dimensions are in inches (millimeters) unless otherwise noted.

01-01-97	RENUM. C-22.01, NEW REVISION BOX	T.P.	03-07-11	ADDED DETAIL SHOWING PLAN VIEW	R.D.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GUARDRAIL EROSION CONTROL TREATMENTS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
03-01-97	CORRECT STD. NUMBERS IN NOTES PG. 2	J.A.	08-10-12	REVISED CURB "B" AND AGGREGATE	R.D.			643	14-BR-3	STARK	77	64
11-03-00	CORRECTION TO NOTES	M.A.	07-15-15	ADDRESSED SHOULDER INLET CURB	R.D.		SHT. 1 OF 2				CONTRACT NO. 68895	
10-16-06	REVISED TO 2007 SPEC.	M.A.	01-26-17	REVISED	R.D.		NOT TO SCALE CADD STD. 630101-D4	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DETAIL ''A''

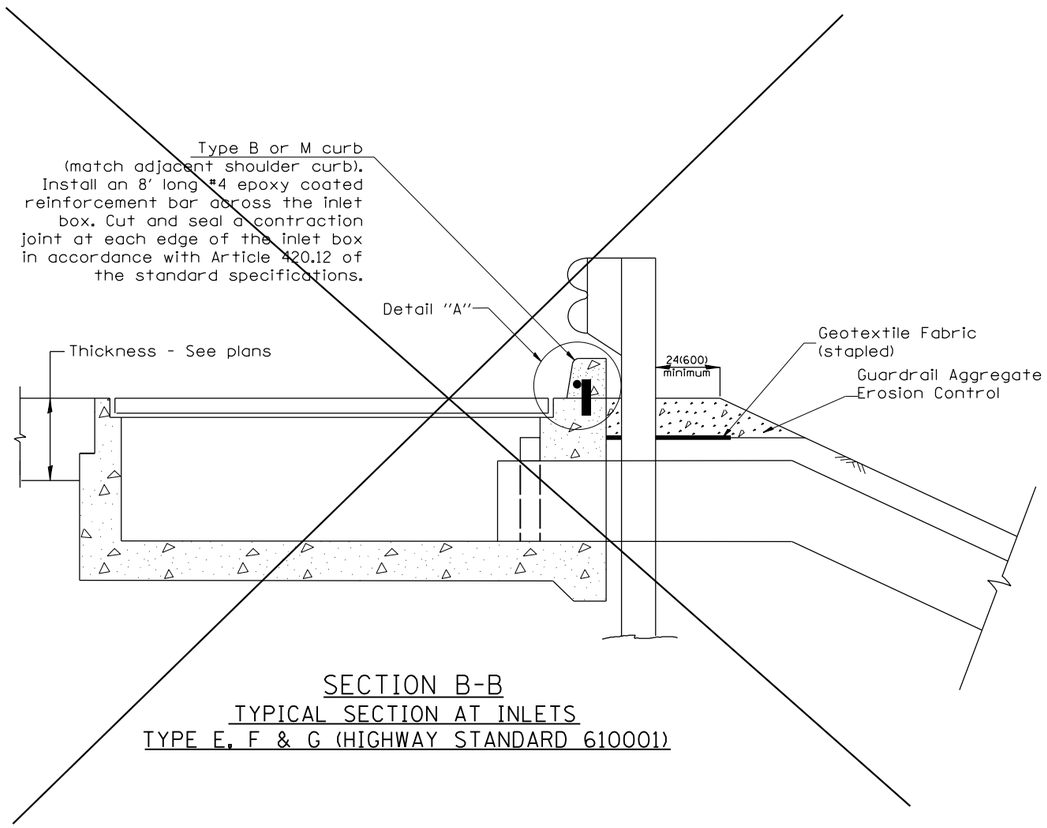
#4 reinforcement bars may be cast in PCC apron and precast inlet box or drilled and anchored with an apporoved chemical adhesive at 2' spacing. Cost of curb and reinforcement are included in the cost of shoulder inlet.





PLAN VIEW

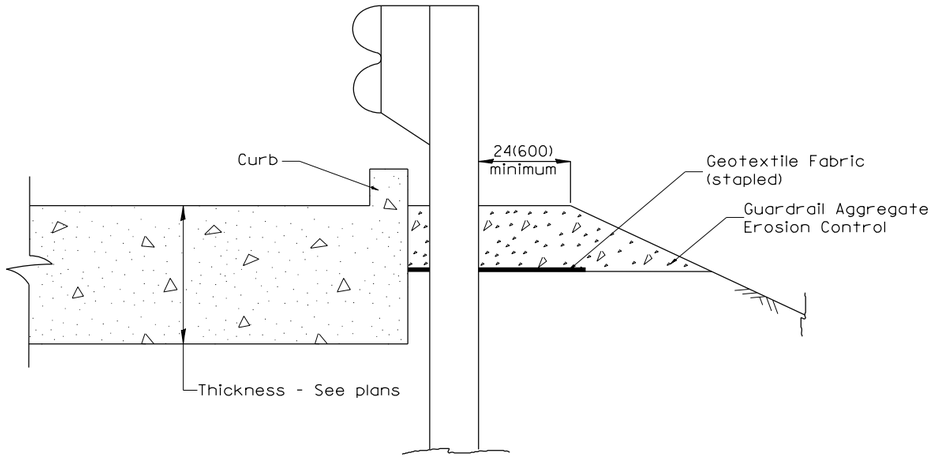
APPROACH SLAB OR SHOULDER PLACEMENT



SECTION B-B

TYPICAL SECTION AT INLETS

TYPE E, F & G (HIGHWAY STANDARD 610001)



SECTION A-A

TYPICAL SECTION WITH BRIDGE APPROACH CURB

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL EROSION CONTROL TREATMENTS

NOT TO SCALE

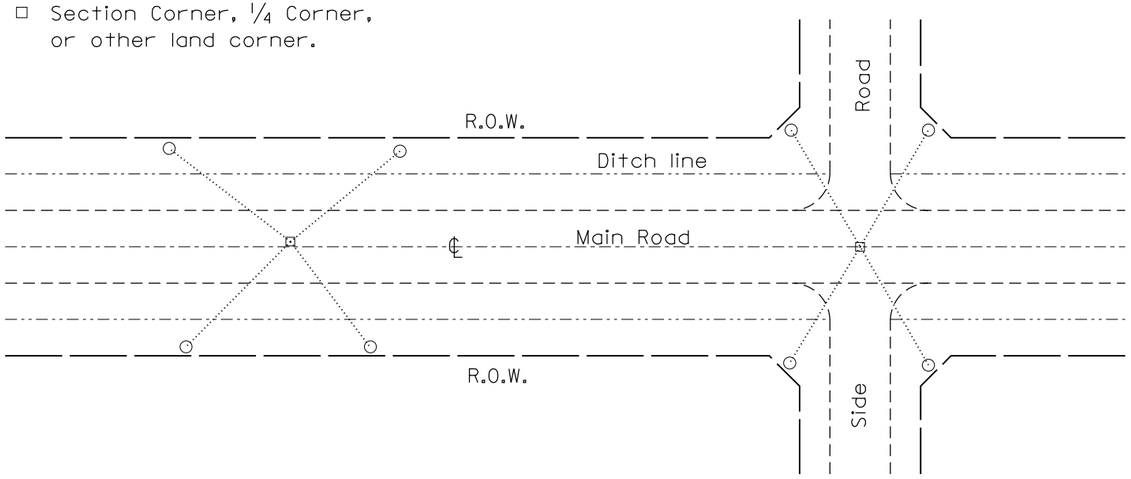
SHT. 2 OF 2
CADD STD. 630101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	65
		CONTRACT NO. 68895		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DESIGNER NOTES:
1. ADD DISTRICT SPECIAL PROVISION IF PLACING A TYPE 1 MARKER ON A STRUCTURE.
2. MODIFIES STATE STD 667101. DON'T USE STATE STD IF USING CADD STANDARD
3. PERMANENT SURVEY MARKERS SHALL BE PLACED TO PERPETUATE THE SURVEY LINES OF DIVIDED HIGHWAYS AND THE CENTERLINE OF ALL OTHERS WHERE THESE LINES HAVE BEEN ESTABLISHED BY SURVEY.
4. PERMANENT SURVEY MARKERS SHALL BE PLACED AT ALL LAND SECTION CORNERS WITHIN THE STATE R.O.W. WHERE THE MONUMENTS HAVE BEEN FOUND OR RELOCATED BY SURVEY.

PERMANENT SURVEY TIES

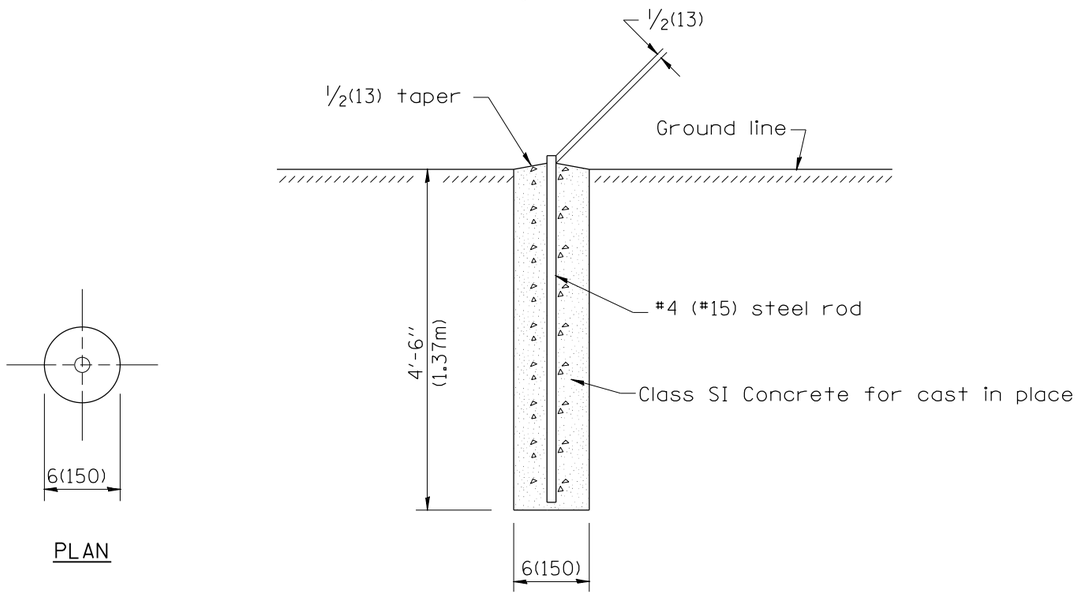
○ Permanent Survey Tie
□ Section Corner, 1/4 Corner, or other land corner.



TYPICAL APPLICATION

GENERAL NOTES

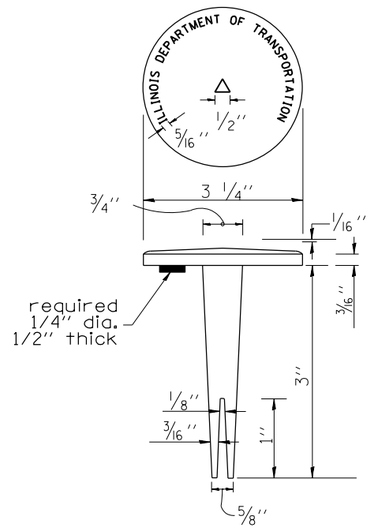
1. The marker shall be cast in place of Class SI Concrete.
2. Tie marker shall be installed after the final seeding has been completed unless otherwise specified by the Engineer.
3. The tie distances to the section corner shall be measured and recorded by the surveyor setting the PSM. All ties shall be turned over to the IDOT Chief of Surveys or Chief of Plats for recordation.
4. All documentation shall be performed by a PLS



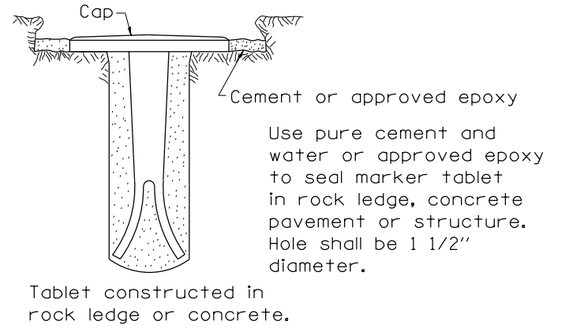
PLAN

SECTION

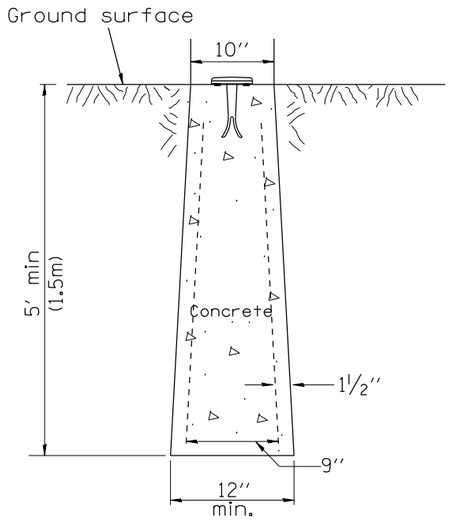
PERMANENT SURVEY MARKERS



BRASS TABLET



TYPE I



TYPE II
CAST-IN-PLACE MARKER

GENERAL NOTES

1. All type II markers shall be cast in place, and precast markers will not be allowed.
2. Two permanent magnets, each having a diameter of 3/4 (19) and a thickness of 1/4 (6), or equivalent, shall be attached to the underside of the tablet with an approved epoxy bonding agent.
3. The location of the markers shall be in accordance with the plans in general, the markers will be placed at the P.T.'s, P.C.'s, and P.I.'s llocated within the R.O.W. of horizontal curves and spaces along the tangents in a way that a minimum of two markers are always inter-visible, and not to exceed 1000' (300m).
4. The markers shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner in order that there will be no further settlement or horizontal shifting. The monuments shall be placed in a way that the survey point will fall within the portion of the plaque provided for that purpose.
5. The project designation, the centerline station, the survey point, and the elevation shall be permanently marked by the use of metal dies after marker has been installed.

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

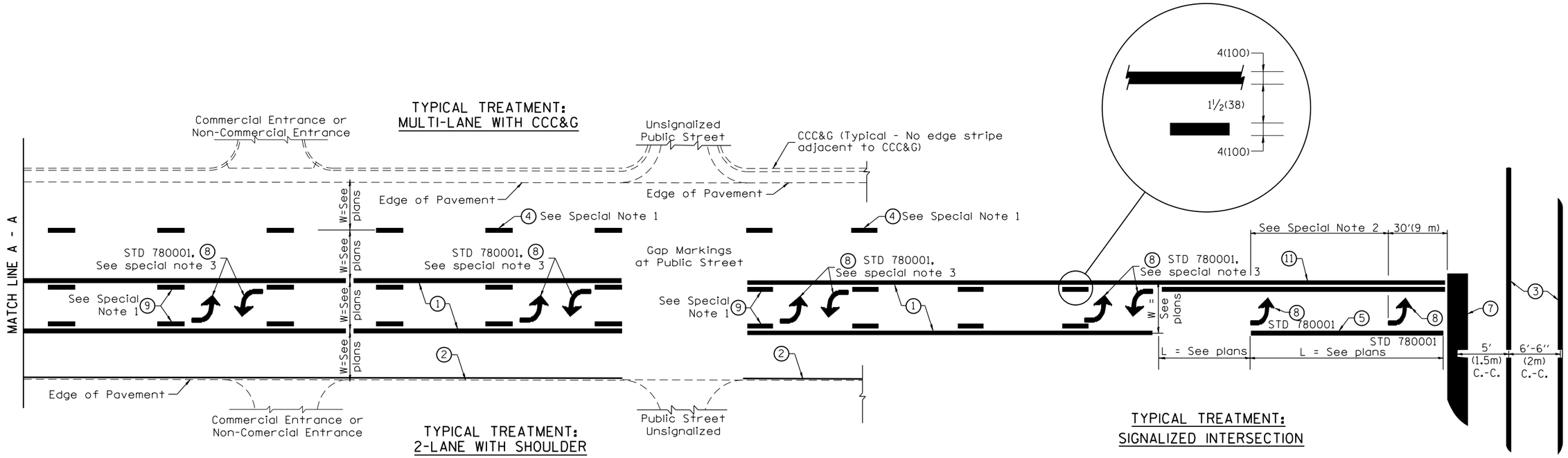
01-01-97	RENUM. D-3.01, NEW REVISION BOX, REVISED	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
	TITLE BOX, ADD DESIGNER NOTE		01-04-11	REVISED FOR CORRECTIONS	R.D.
07-07-98	ADD DESIGNER NOTE	J.A.	08-21-13	CHANGED MIN. DIAMETER	R.D.
05-24-06	REMOVED GEN. NOTE UNDER TIES	M.A.	08-25-15	REVISED MATERIAL	R.D.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PERMANENT SURVEY TIE & PERMANENT SURVEY MARKERS TY.I – TY.II

NOT TO SCALE — CADD STD. 667101-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	66
		CONTRACT NO. 68895		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend.
Some elements may not apply to specific project.)

1. 4(100) Solid (Yellow)
2. 4(100) Solid (White)
3. 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)
   2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
4. 6(150) Skip-Dash (White) — 10' (3.05m) / 30' (9.14m) / 10' (3.05m) (See Special Note 1)
5. 8(200) Solid (White)
6. 12(300) Diagonal (White) (Item 6 is shown on Std. 780001)
7. 24(600) Stop Bar (White)
8. Letters & Arrows — 33' (10m) (See Std. 780001 and Special Notes 2 & 3)
9. 4(100) Skip-Dash (Yellow) — 10' (3.05m) / 30' (9.14m) / 10' (3.05m) (See Special Note 1)
10. 12(300) Diagonal (Yellow) (See Table A) — 45°
11. 4(100) Double Solid (Yellow) — 11(280) C.-C. — See Table A

SPECIAL NOTES

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversly across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
   A. A minimum of two (2) arrows is required.
   B. The maximum spacing between arrows is 80' (24 m).
   C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
   A. A minimum of two (2) arrow pairs is required.
   B. The maximum spacing between arrow pairs is 200' (61 m).
   C. Arrow pairs shall be evenly spaced if three (3) or more are required.
   D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.
3. Refer to Article 780.13 for letter, number and symbol areas (sq. ft.)
4. Areas are grooved 1" beyond each edge for the following symbols:
   Through Arrow= 14.8 sq. ft.
   Large Left or Right Arrow= 21.9 sq. ft.
   2 Arrow Combination Left (or Right) and Through= 34.9 sq. ft.
   Wrong Way Arrow= 29.5 sq. ft.
   Railroad Crossing Symbol= 69.8 sq. ft.
   (For further information, refer to BDE Special Provision: Grooving for Recessed Pavement Markings)

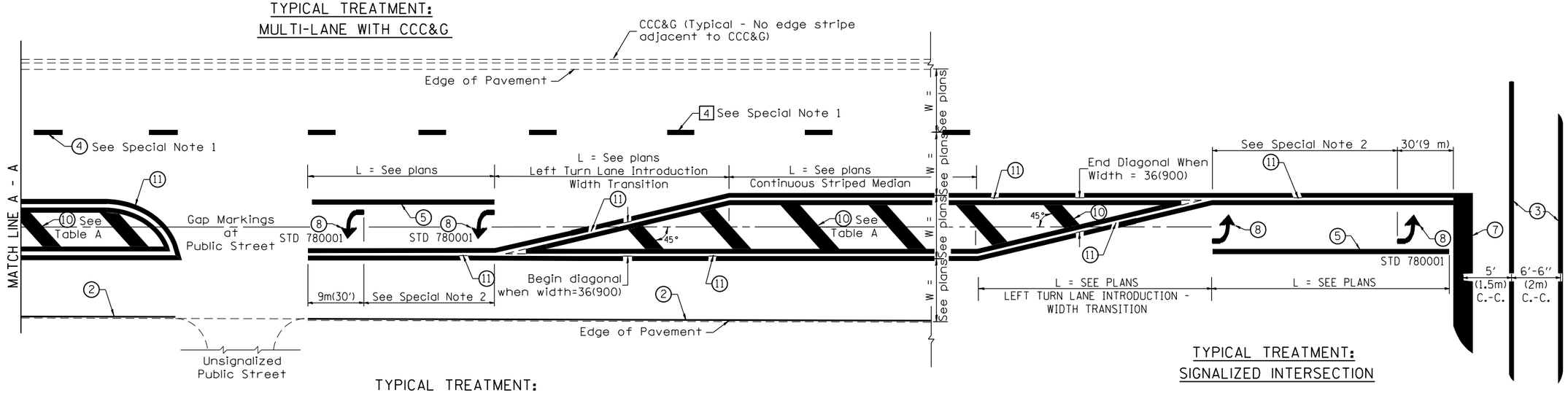
DESIGNER NOTES:
1. Include State Standard 780001 (Typical Pavement Markings)

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.		
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.	2/29/16	ADDED GROOVING AREAS	R.D.	
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.				
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKINGS
NOT TO SCALE
SHT. 1 OF 2
CADD STD. 780001-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	67
		CONTRACT NO. 68895		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



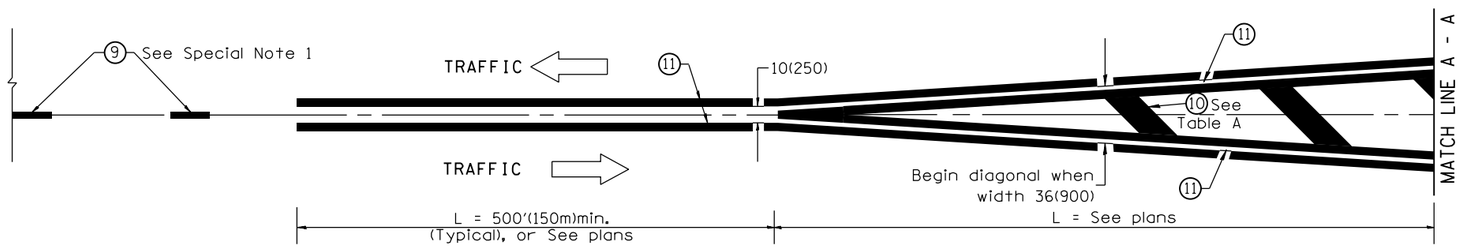
TYPICAL MEDIAN TRANSITIONS

FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A

RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	CONTINUOUS	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)



MEDIAN INTRODUCTION - WIDTH TRANSITIONS

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

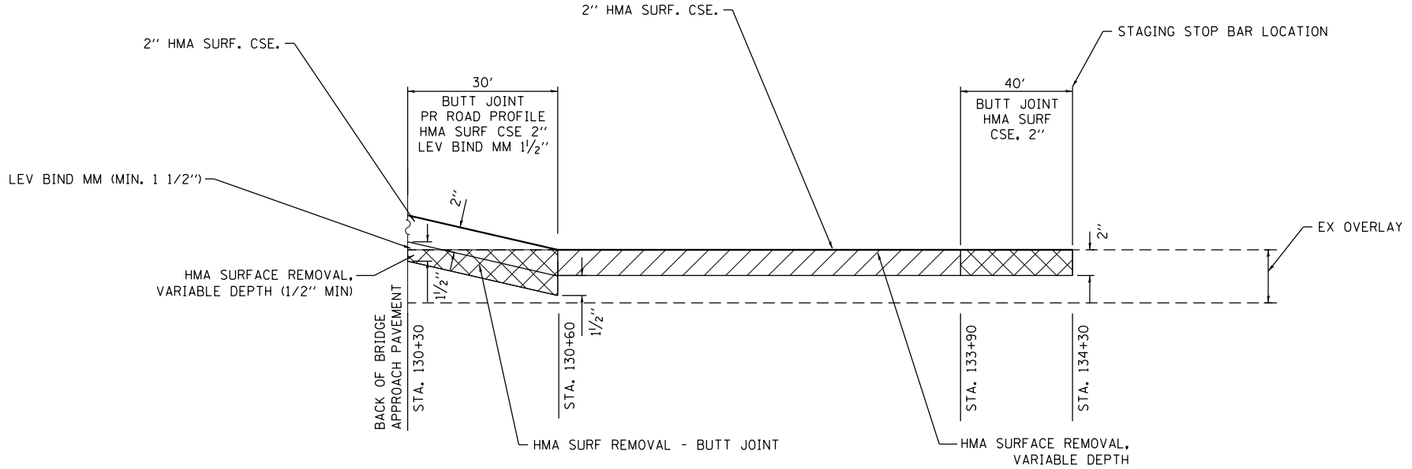
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKINGS

NOT TO SCALE

SHT. 2 OF 2
CADD STD. 780001-D4

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	68
		CONTRACT NO. 68895		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



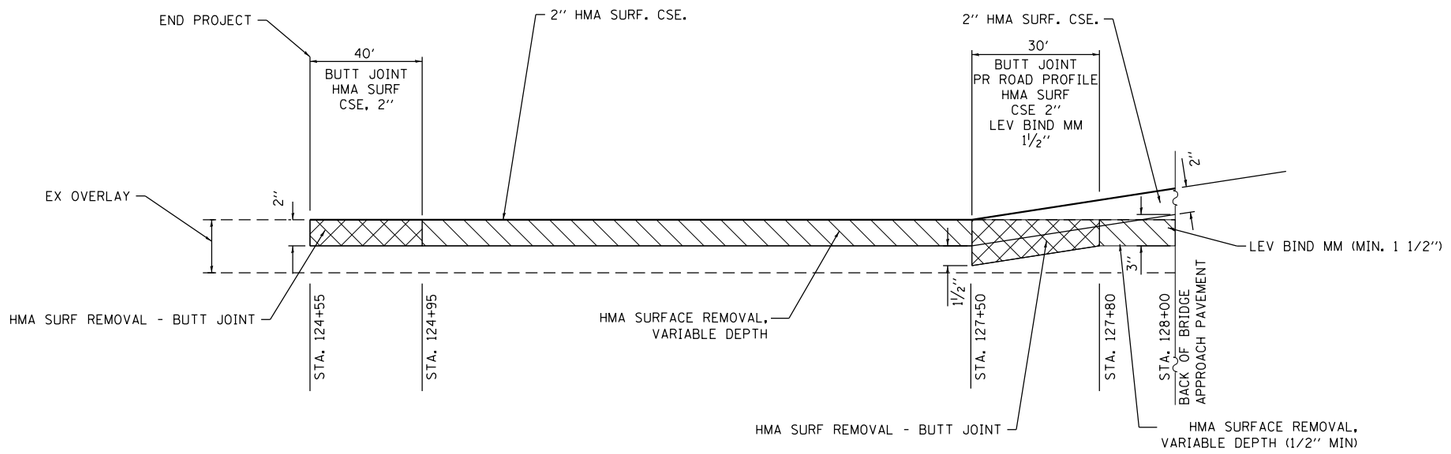
HMA PAVEMENT THICKNESS TAPER DETAIL – EAST OF BRIDGE

NOT TO SCALE

LEGEND

HMA SURFACE REMOVAL BUTT JOINT

HMA SURFACE REMOVAL, VARIABLE DEPTH



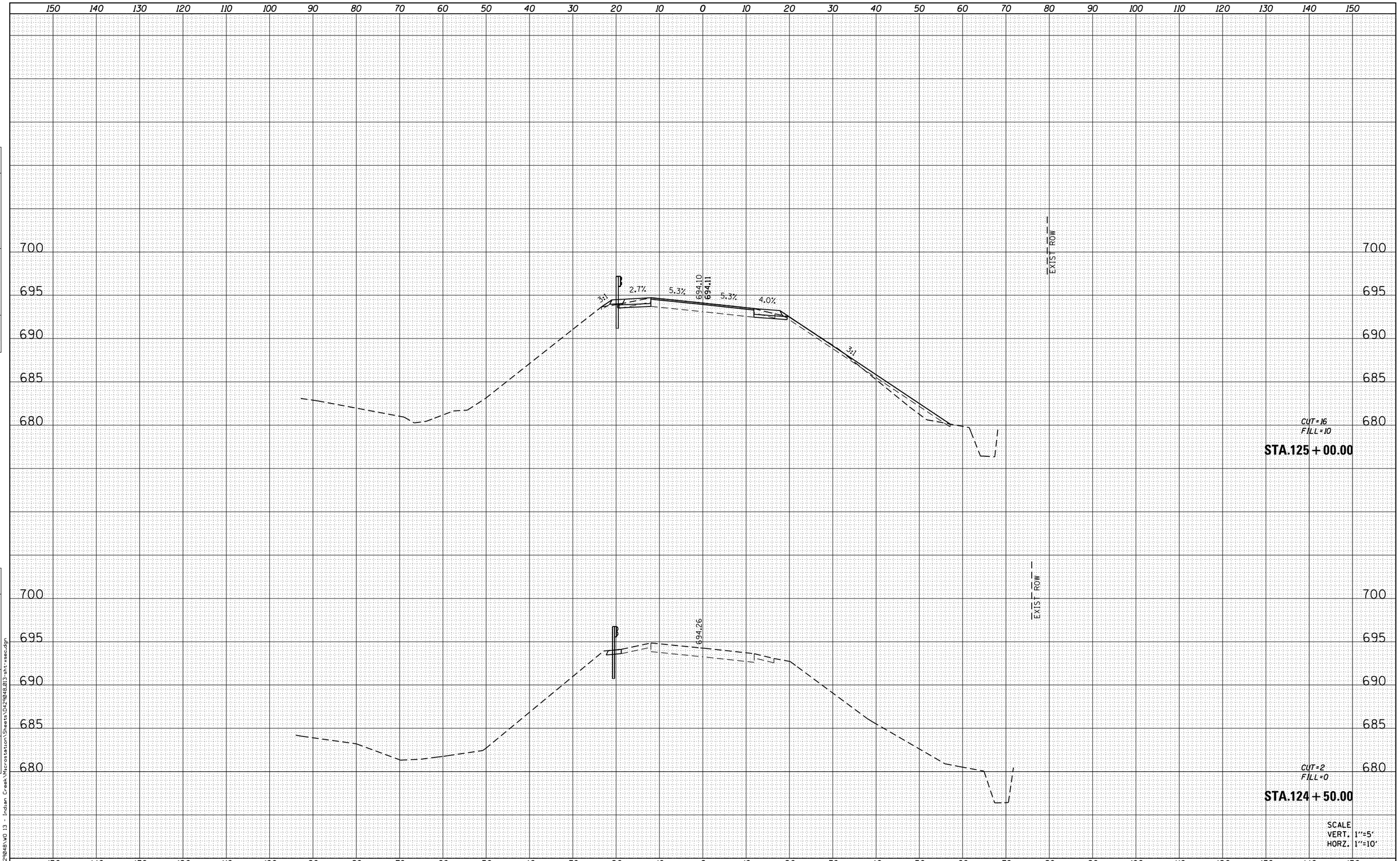
HMA PAVEMENT THICKNESS TAPER DETAIL – WEST OF BRIDGE

NOT TO SCALE

FILE NAME = M:\29048\WD 13 - Indian Creek\Microstation\Sheets\029048d13-sht-contr details.dgn

OATES ASSOCIATES ILLINOIS DESIGN FIRM LICENSE NO: 184.001115	USER NAME = stephanie.lee	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT TRANSITION DETAIL IL 17 OVER INDIAN CREEK
		DRAWN -	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 1/26/2018	DATE -	REVISED -		SCALE: NTS / SHEET 1 OF 1 SHEETS / STA. / TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	69
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			



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

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

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OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

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	DRAWN -	REVISED -
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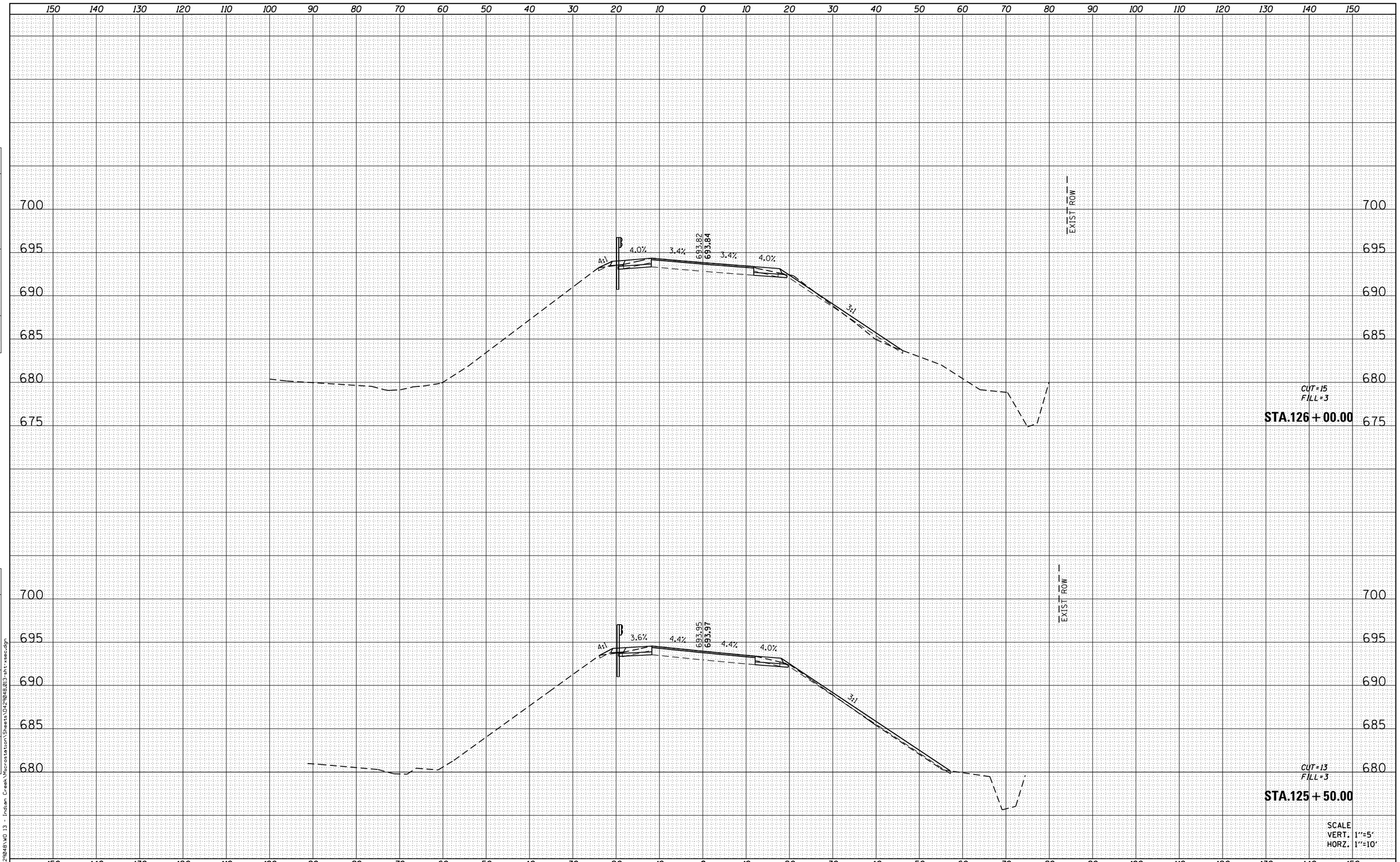
PLOT DATE = 1/26/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 17 OVER INDIAN CREEK

SCALE: | SHEET 1 OF 8 SHEETS | STA. 124+50.00 TO STA.125+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	70
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			



FINAL SURVEY — NOTE BOOK — NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY — NOTE BOOK — NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

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OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

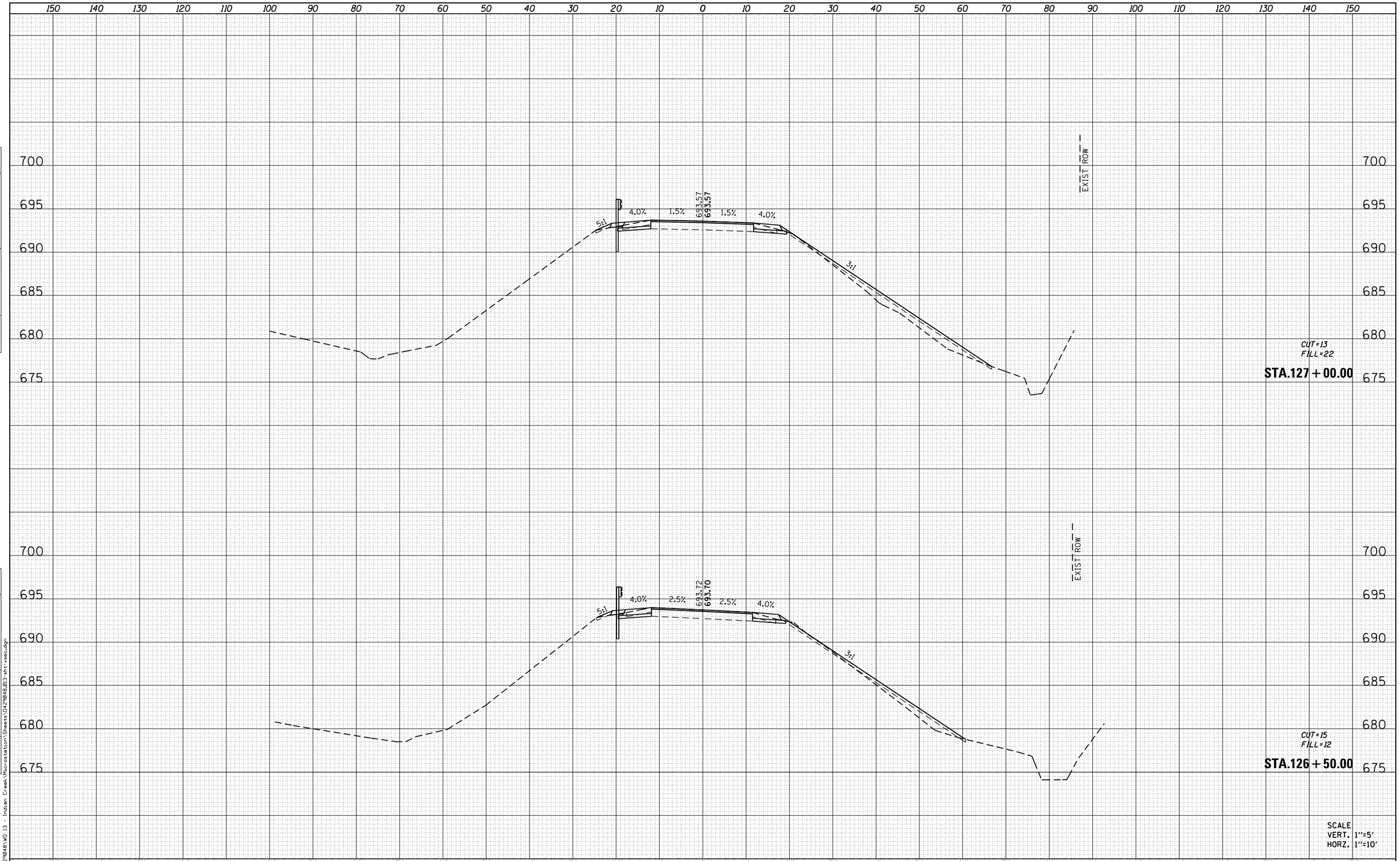
USER NAME = stephanie.lee	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 1 OVER INDIAN CREEK

SCALE: | SHEET 2 OF 8 SHEETS | STA. 125+50.00 TO STA.126+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	71
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			



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BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	

ORIGINAL SURVEY — NOTE BOOK — NO.

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	

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OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME = stephanie.lee	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 17 OVER INDIAN CREEK

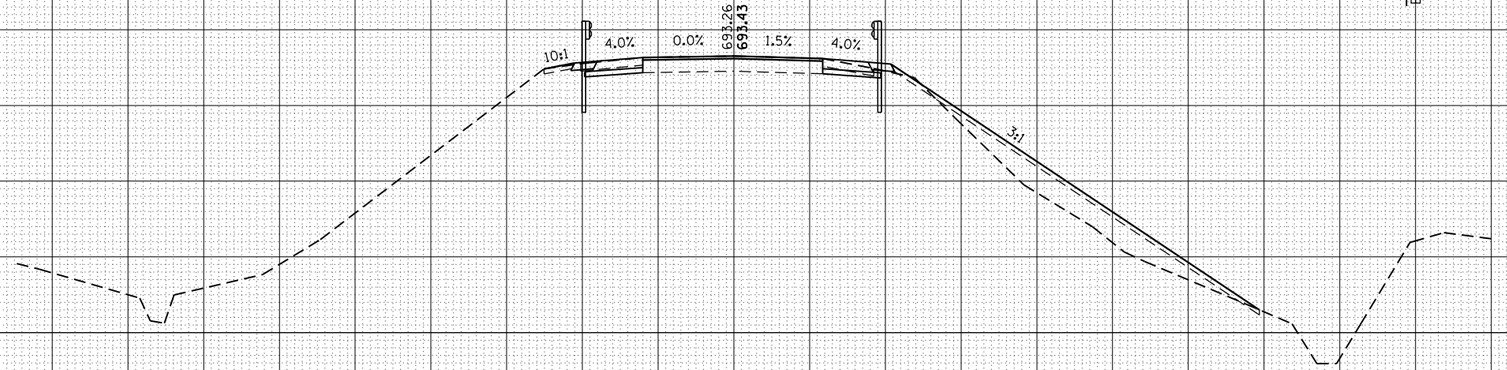
SCALE: | SHEET 3 OF 8 SHEETS | STA. 126+50.00 TO STA.127+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	72
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			

BRIDGE OMISSION STA. 128 + 00 TO STA. 130 + 30

CUT=25
FILL=23

STA.128 + 00.00



CUT=16
FILL=47

STA.127 + 50.00

SCALE
VERT. 1"=5'
HORZ. 1"=10'

USER NAME = stephanie.lee	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 1/26/2018	DATE -	REVISED -	

OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 17 OVER INDIAN CREEK

SCALE: | SHEET 4 OF 8 SHEETS | STA. 127+50.00 TO STA.128+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	73
		CONTRACT NO. 68895		
		ILLINOIS FED. AID PROJECT		

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

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

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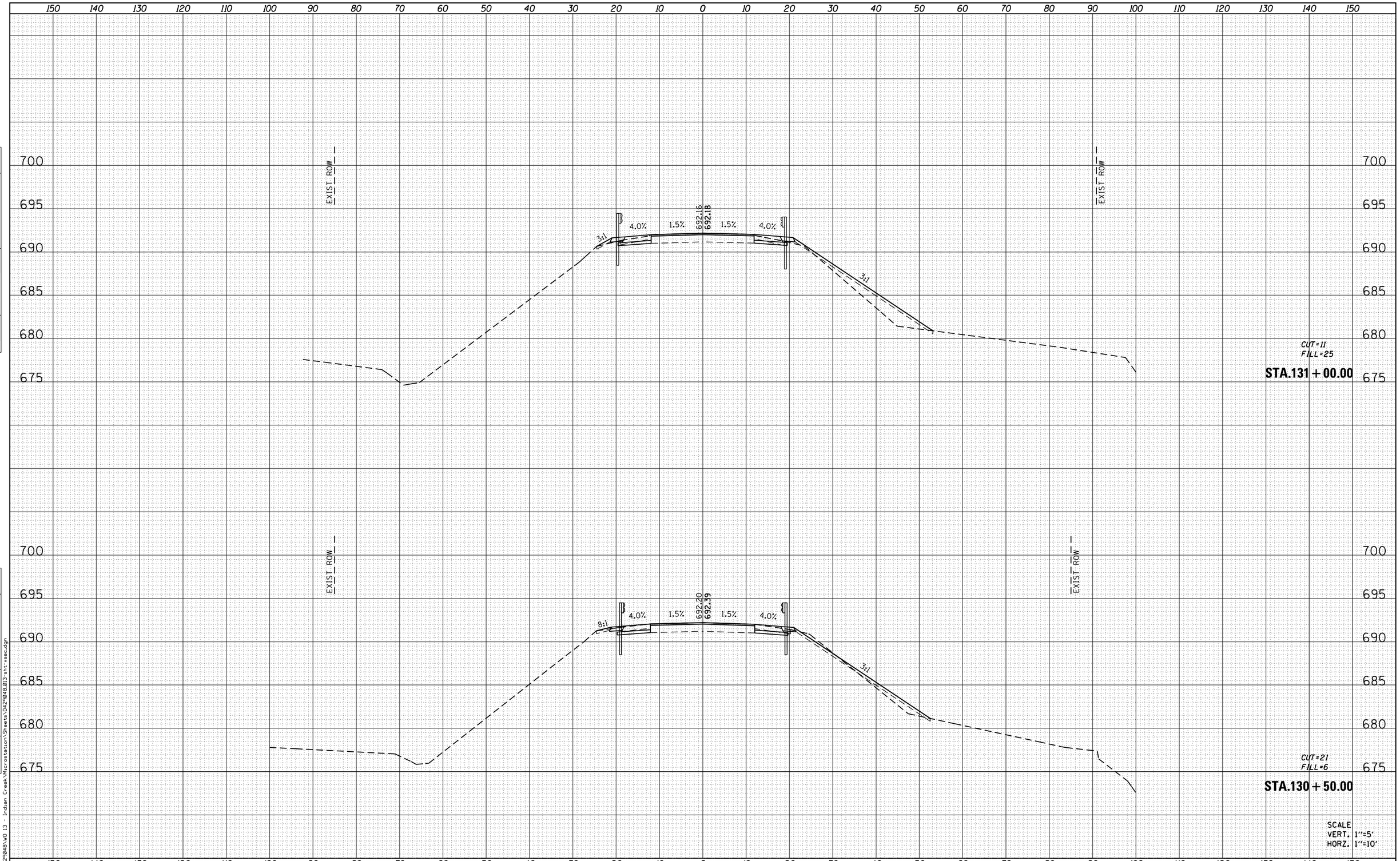


FINAL SURVEY

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

ORIGINAL SURVEY

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

FILE NAME = M:\29048\WD 13 - Indian Creek\Microstation\Sheets\D429048013-sht-xsec.dgn

OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

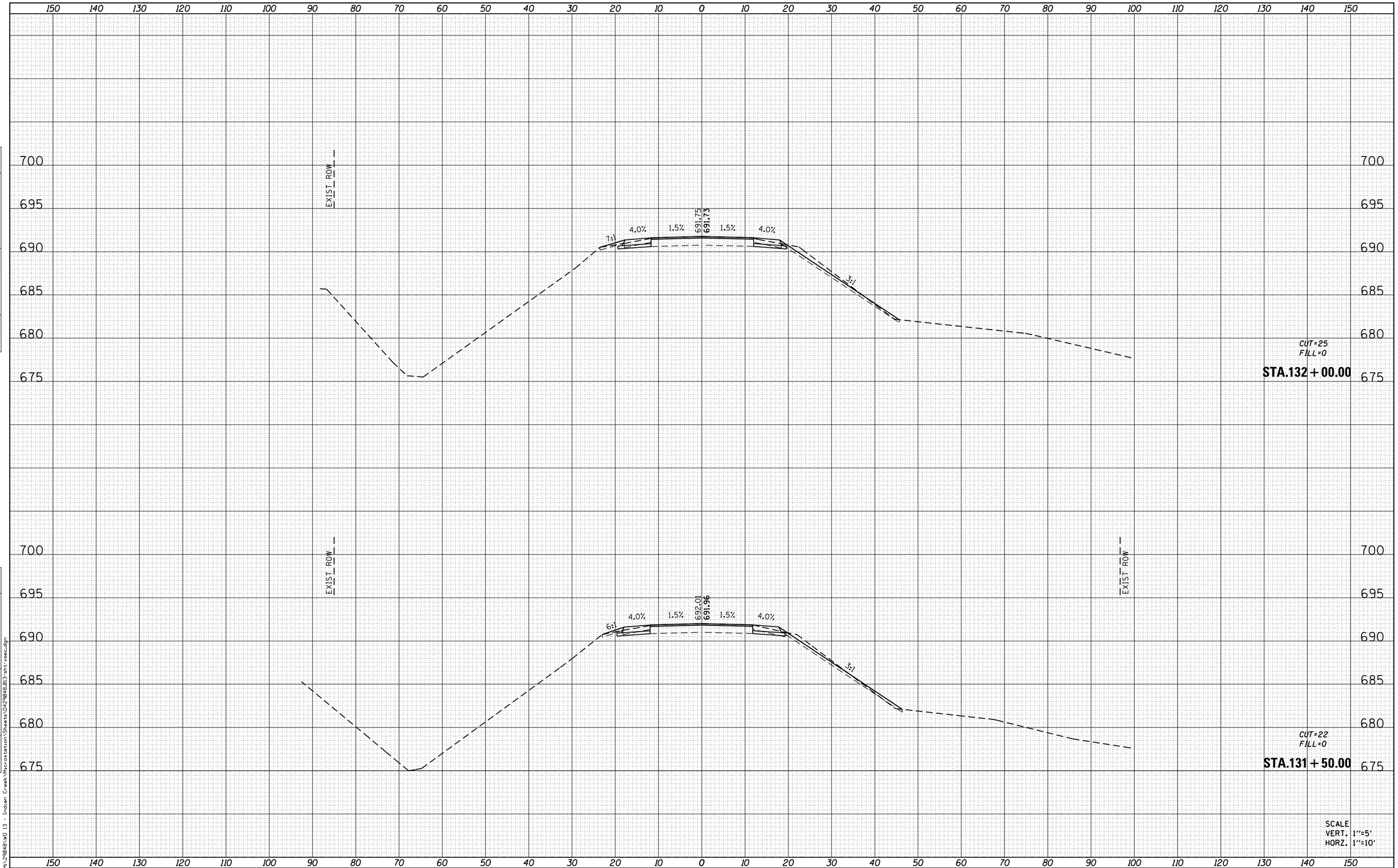
USER NAME = stephanie.lee	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 17 OVER INDIAN CREEK

SCALE: | SHEET 5 OF 8 SHEETS | STA. 130+50.00 TO STA.131+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	74
		CONTRACT NO. 68895		
	ILLINOIS FED. AID PROJECT			



FINAL SURVEY — NOTE BOOK — NO.

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	

ORIGINAL SURVEY — NOTE BOOK — NO.

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	

SCALE
VERT. 1"=5'
HORZ. 1"=10'

FILE NAME = M:\29048\WD 13 - Indian Creek\Microstation\Sheets\D429048013-sht-xsec.dgn

OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

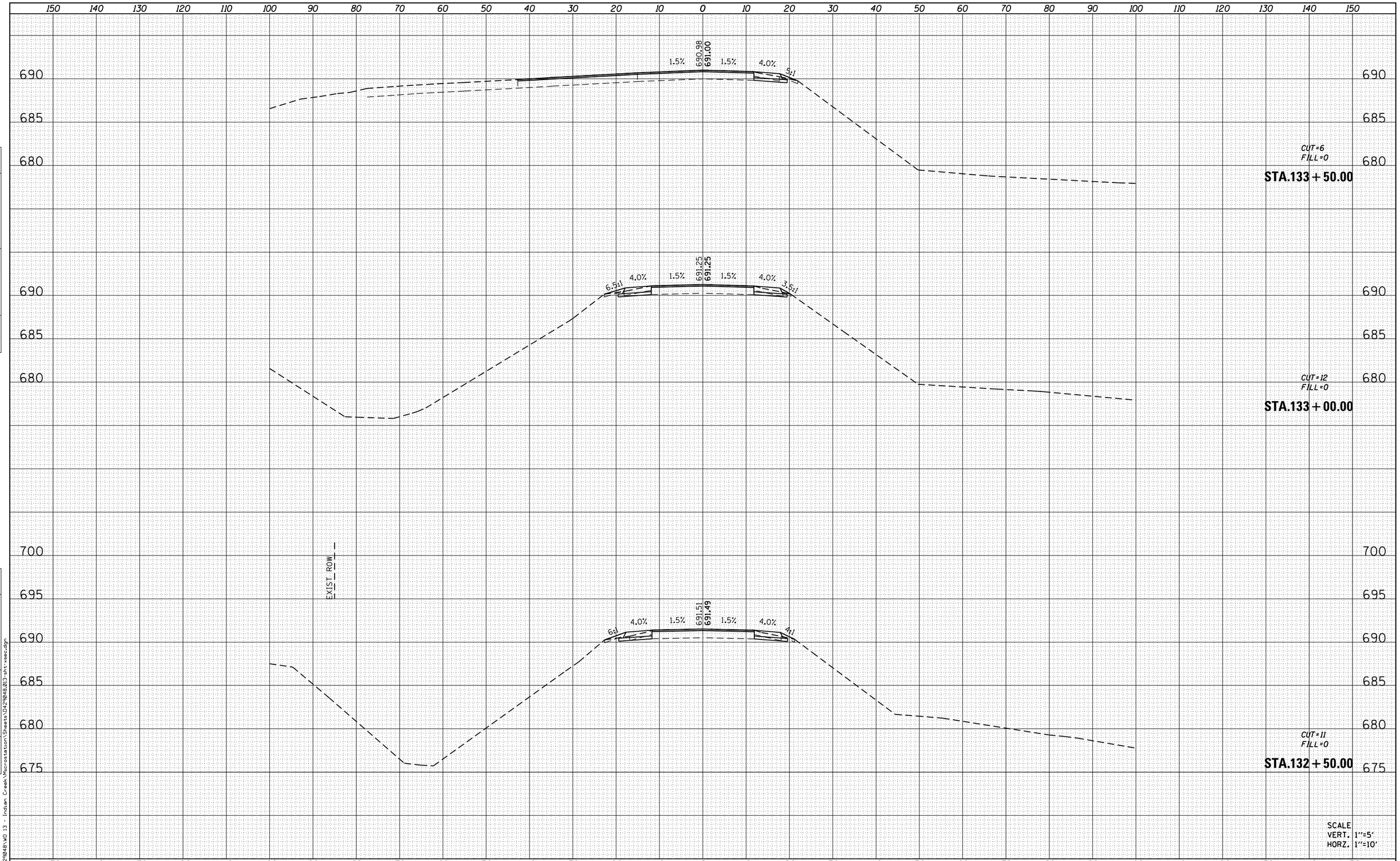
USER NAME = stephanie.lee	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 17 OVER INDIAN CREEK

SCALE: | SHEET 6 OF 8 SHEETS | STA. 131+50.00 TO STA. 132+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	75
		CONTRACT NO. 68895		
	ILLINOIS	FED. AID PROJECT		



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

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

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OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME = stephanie.lee	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 17 OVER INDIAN CREEK

SCALE: | SHEET 7 OF 8 SHEETS | STA. 132+50.00 TO STA.133+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	76
		CONTRACT NO. 68895		
	ILLINOIS	FED. AID PROJECT		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

690.56

690
685
680
675

CUT=0
FILL=0

STA.134+50.00

841 4.0% 1.5% 690.75 690.75 1.5% 4.0%

690
685
680

CUT=12
FILL=0

STA.134+00.00

SCALE
VERT. 1"=5'
HORZ. 1"=10'

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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

BY	DATE

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

BY	DATE

FILE NAME = M:\29048\WO 13 - Indian Creek\Microstation\Sheets\D4290481013-sht-xsec.dgn

OATES ASSOCIATES
ILLINOIS DESIGN FIRM LICENSE NO: 184.001115

USER NAME = stephanie.lee	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/26/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 17 OVER INDIAN CREEK

SCALE: | SHEET 8 OF 8 SHEETS | STA. 134+00.00 | TO STA.134-50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
643	14-BR-3	STARK	77	77
		CONTRACT NO. 68895		
		ILLINOIS FED. AID PROJECT		