SHEET NO.

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INDEX OF SHEETS

TYPICAL SECTIONS

GENERAL NOTES, STANDARDS, AND COMMITMENTS STATUS OF UTILITIES SUMMARY OF QUANTITIES

STRUCTURE PLANS AND STRUCTURE BORINGS

SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL EROSION CONTROL AND PAVEMENT MARKING SHEET REMOVAL PLAN SHEET

SCHEDULES OF QUANTITIES
ALIGNMENT TIES AND BENCHMARKS

PLAN AND PROFILE SHEET

DISTRICT 4 STANDARDS

CONSTRUCTION DETAILS

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 22 (IL 78) SECTION (128B)BR-2 FEDERAL PROJECT NO. STP-M4U1(579) **BRIDGE REPLACEMENT** STARK COUNTY C - 94 - 089 - 09

IL ROUTE 78 OVER WALNUT CREEK TRIBUTARY REPLACEMENT OF EXISTING BRIDGE WITH PROPOSED CULVERT

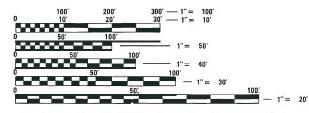
NET LENGTH = 850.0 FT. = 0.16 MILE

DESIGN DESIGNATION

MINOR ARTERIAL (RURAL) (088-2503) **CURRENT ADT: 2,450 (2016)** DESIGN ADT: 2,990 (2036) DESIGN SPEED: 55 MPH POSTED SPEED: 55 MPH MU = 3.4%, SU = 6.4%

SCALE IN FEET

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

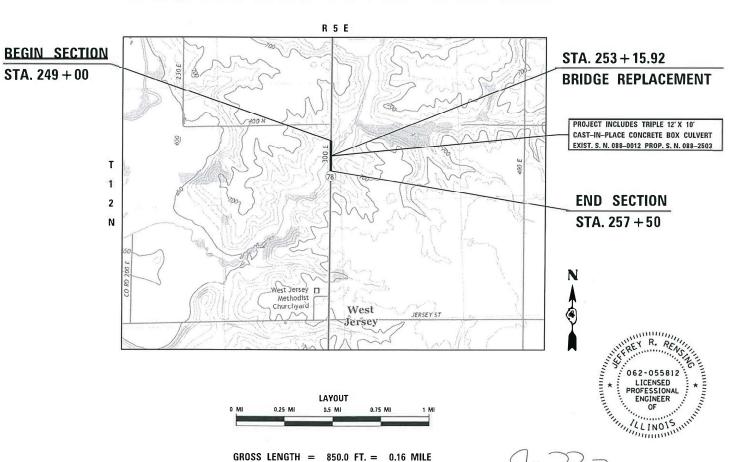


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER RICHARD DOTSON 309-671-3455 PROJECT MANAGER MICHAEL HUDELSON 309-671-3466

CONTRACT NO. 68897 CATALOG NO. 034246-00D

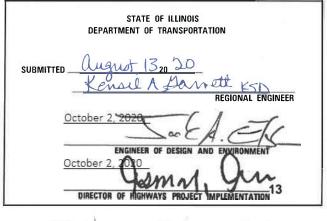


D-94-063-09

(128B)BR-2

STARK 52 1

CONTRACT NO. 68897



LOCATION OF SECTION INDICATED THUS: - -



8/7/2020

JEFFREY R. RENSING, P.E. IL P.E. NO. 062-055812

Collinsville

Belleville 20 East Main Street Belleville, IL 62200 618.416.4688 720 Olive, Suite 700 St. Louis, MO 63101 314 588.8381

St. Charles 330 North Main, Suite 201

ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115

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GENERAL NOTES

1. SOIL REPORT AVAILABILITY

THE SOILS REPORT AND ALL SOILS DATA COLLECTED AND PROCESSED IN CONJUNCTION WITH THE DESIGN OF IMPROVEMENT IS ON FILE AT THE DISTRICT OFFICE WHERE IT IS AVAILABLE FOR INSPECTION BY CONTRACTORS OR PROSPECTIVE BIDDERS. BY SUBMITTING A BID, THE CONTRACTOR ACKNOWLEDGES THAT THE SOILS REPORT AND DATA HAVE BEEN MADE AVAILABLE, THAT THE CONTRACTOR IS AWARE OF THE REPORT CONTENTS AND APPENDICES, AND THAT THE SOILS REPORT IS PART OF THE CONTRACT DOCUMENTS.

2. 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.

3. 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.

4. 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.

5. 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.

6. 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.

7. TEMPORARY MATERIAL REQUIREMENTS - UTILITY AND DRIVEWAY CROSSINGS

INCIDENTAL HOT-MIX ASPHALT SURFACE SHALL BE USED FOR ALL TEMPORARY SIDE ROAD CROSSINGS. AGGREGATE SURFACE COURSE MAY BE USED FOR ALL DRIVEWAY CROSSINGS EXCEPT DURING WINTER SHUTDOWN IN ACCORDANCE WITH ARTICLE 107.09.

8. TREE REMOVAL

THE CONTRACTOR SHALL CONTACT THE ENGINEER AND PRIOR APPROVAL OBTAINED FOR ANY TREE REMOVAL BEYOND THE LIMITS/LOCATIONS INCLUDED IN THE PLANS.

9. 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.

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 PIO101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL 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.

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

10. 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 (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.

11. AGGREGATE SURFACE COURSE, TYPE B

AGGREGATE SURFACE COURSE, TYPE B SHALL BE REQUIRED FOR ALL GRANULAR CONSTRUCTION OF SIDE ROADS, ENTRANCES, AND MAILBOX TURNOUTS, WHETHER OR NOT PORTIONS OF THE SURFACES THUS CONSTRUCTED ARE TO BE COVERED WITH A BITUMINOUS SURFACE, EXCEPT WHERE NOTED DIFFERENTLY ON THE PLANS.

12. AGGREGATE FOR DRIVEWAY REPLACEMENT

THE MATERIAL USED FOR CONSTRUCTION OF PERMANENT AGGREGATE DRIVEWAYS SHALL BE GRAVEL OR CRUSHED STONE AS DIRECTED BY THE ENGINEER, TO REPLACE IN KIND THE EXISTING AGGREGATE DRIVEWAYS.

NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS REQUIREMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE PAY ITEM FOR THE AGGREGATE AS SPECIFIED ON THE PLANS.

13. 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 (20 MM) WIDE, 5 INCHES (125 MM) HIGH AND 5/8 INCH (15 MM) DEFP.

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.

14. POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES

SURFACE TYPE	RESIDUAL RATE
MILLED (HMA OR PCC)	0.08 LB/SF
EXISTING PAVEMENT	0.08 LB/SF
FOG COAT (BETWEEN LIFTS)	0.08 LB/SF

NOTE: ESTIMATED TRUCK APPLICATION RATE IS USED FOR ESTIMATING QUANTITIES.

15. HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S)	SURFACE COURSE	HMA FULL DEPTH	HMA SHOULDER (SURFACE LIFT)	HMA SHOULDER (LOWER LIFT)	HMA BASE COURSE WIDENING
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=50	4.0% @ N=50	4.0% @ N=50
MIXTURE COMPOSITION	IL 9 . 5	IL 19.0	IL 9 . 5	IL 19.0	IL 19.0
FRICTION AGGREGATE	MIXTURE D	N/A	MIXTURE C	N/A	N/A
QUALITY MANAGEMENT PROGRAM	QCQA	QCQA	QCQA	QCQA	QCQA

NOTES: INDIVIDUAL LIFT THICKNESS OF EACH MIX TYPE WILL BE NO LESS THAN 3 TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 TIMES NOMINAL AGGREGATE SIZE.

16. BUTT JOINT CUTTING TIME RESTRICTION

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

17. 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.

18. CROSSING EXISTING STRUCTURES WITH EQUIPMENT

THE FOLLOWING STRUCTURES SN 088-0012 MAY BE CROSSED WITH UNLOADED MATERIAL TRANSFER DEVICE. ANY STRUCTURES NOT LISTED ABOVE SHALL BE VERIFIED BY THE RESIDENT PRIOR TO BEGINNING WORK.

19. ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS

SCALE: NTS

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.

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GEN	GENERAL NOTES, STANDARDS, AND COMMITMENTS								SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
	IL 78 OVER WALNUT CREEK TRIBUTARY							(128B)BR-2			STARK	52	2
	IL 70 UVLN VVALIVUI GREEK INIDUIANT										CONTRACT	NO. 68	3897
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20. TRANSITION PAYMENT METHOD - NEW/OLD CONSTRUCTION

TEN FEET (10 FT.)(3M) TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.

21. WOVEN WIRE FENCE REPLACEMENT COMMITMENT

THE WOVEN WIRE FENCE SHALL BE INSTALLED PRIOR TO THE REMOVAL OF THE EXISTING FARM FENCES. THE CONTRACTOR SHALL PROVIDE A PULL POST AT THE INTERSECTION OF NEW AND EXISTING FENCES. WHEN SO DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL INSTALL THE WOVEN WIRE FENCE PRIOR TO COMMENCING ANY OTHER WORK IN THE AREA. THE CONTRACTOR SHALL PERFORM ANY CLEARING AND MINOR GRADING AS DIRECTED BY THE ENGINEER TO PROVIDE A SMOOTH GROUND SURFACE FOR THE PROPOSED FENCE.

22. RIGHT-OF-WAY MARKERS

WHEN INSTALLING RIGHT-OF-WAY MARKERS, CARE SHALL BE TAKEN TO NOT DISTURB ANY EXISTING PROPERTY/RIGHT-OF-WAY PINS. IF A PROPERTY/RIGHT-OF-WAY PIN IS FOUND AT THE LOCATION OF A PROPOSED RIGHT-OF-WAY MARKER, THE MARKER SHALL BE PLACED ONE (1) FOOT IN FRONT OF THE PIN.

23. 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.

24. NO PASSING ZONE VERIFICATION

THE RESIDENT SHALL CONTACT OPERATIONS TO VERIFY THE LOCATION OF NO PASSING ZONES PRIOR TO PLACEMENT OF CENTERLINE STRIPING.

25. APPROXIMATE QUANTITIES

THE FOLLOWING ITEMS AND APPROXIMATE QUANTITIES ARE INCLUDED IN THE SUMMARY OF QUANTITIES IN ORDER TO ESTABLISH A UNIT COST FOR WORK WHICH MAY BE REQUIRED TO CONSTRUCT THIS SECTION. THE ACTUAL QUANTITY OF EACH ITEM SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

AGGREGATE FOR TEMPORARY ACCESS 100 TON

HIGHWAY STANDARDS

	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS AREAS OF REINFORCEMENT BARS DECIMAL OF AN INCH AND OF A FOOT TEMPORARY EROSION CONTROL SYSTEMS MAILBOX TURNOUT HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS NAME PLATE FOR BRIDGES STEEL PLATE BEAM GUARDRAIL STRONG POST GUARDRAIL ATTACHED TO CULVERT
630201-07 630301-09 665001-02 666001-01 701001-02 701006-05	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS WOVEN WIRE FENCE RIGHT OF WAY MARKERS OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4,5m) AWAY OFF-RD OPERATIONS, 2L, 2W, 15' (4,5m) TO 24" (600MM) FROM PAVEMENT EDGE OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701011-04 701201-05 701301-04 701306-04 701311-03	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
720011-01 725001-01 729001-01	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH TRAFFIC CONTROL DEVICES TEMPORARY CONCRETE BARRIER SIGN PANEL MOUNTING DETAILS SIGN PANEL ERECTION DETAILS METAL POSTS FOR SIGNS, MARKERS & DELINEATORS OBJECT AND TERMINAL MARKERS APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS) TYPICAL PAVEMENT MARKINGS
781001-04 782006-01	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

DISTRICT 4 STANDARDS

406101-D4	BUTT JOINTS
406301-D4	RURAL ENTRANCES FOR "3R" PROJECTS
440001-D4	HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)
540000-D4	DETAIL OF EXCAVATION AND BACKFILL FOR BOX CULVERTS
667101-D4	PERMANENT SURVEY TIE & PERMANENT SURVEY MARKERS TY. I - TY. II
780001-D4	TYPICAL PAVEMENT MARKINGS

SCALE: NTS

COMMITMENTS

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT WRITTEN CONSENT OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

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GENERAL NOTES, STANDARDS, AND COMMITMENTS								F.A.P. SECTION		COUNTY	TOTAL	SHEET NO.		
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Status of Utilities

Ameren Electric

 Route
 FAP 22 (IL 78)

 Section
 (128B)BR-2

 County
 Stark

 Contract No.
 68897

 Catalog No.
 034246-00D

Route	Offset	Location	Type of Utility	Type of Conflict	Disposition
IL 78	41' RT	252+00	Power Pole	New ditch bottom	Relocate
IL 78	41' RT	254+63	Power Pole	New ditch bottom	Relocate
				<u> </u>	
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NOTE: Please check all your facilities within the construction limits of this project.

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SCALE: NTS

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STATUS OF UTILITIES		F.A.P. RTE	SEG	CTION		COUNTY	TOTAL SHEETS	SH N							
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				CONSTRUC	TION CODE
				0005	0010
CODE			TOTAL	ROADWAY	STRUCTURAL
NO.	ITEM	UNIT	QUANTITY	80% - 20%	80%-20% FED-ST
				FED-ST	FED-31
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	52	52	
20100110	THE NEWOVAL TO 15 UNITS DIAMETERS	DIVIT	JL	J2	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	70	70	
20200100	EARTH EXCAVATION	CU YD	1,065	1,065	
20400800	FURNISHED EXCAVATION	CU YD	150	150	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	257		257
20100220	TOROUS GRANGLAN LIMBANNIMENT	CO ID	231		251
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	386		386
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3,430	3,430	
25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	70	70	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	70	70	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	70	70	
25100115	MILICUL METHOD 2	ACRE	0.75	0.75	
73100113	MULCH, METHOD 2	MUNE	U _s I J	U.13	
25100630	EROSION CONTROL BLANKET	SQ YD	313	313	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	150	150	

ME: H3P(29048)WO 15 SN088-0012 IL 78 over Walnut Creek Trib. Phase

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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		ILLINOIS	FED. A	ID PROJECT		

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000-			T.C.T.	ROADWAY	STRUCTURAL
CODE	ITEM	UNIT	TOTAL	80% - 20%	80% - 20%
NO.	1121	01111	QUANTITY	FED-ST	FED-ST
				F E D - 31	FED-31
28000305	TEMPORARY DITCH CHECKS	FOOT	152	152	
28000400	PERIMETER EROSION BARRIER	FOOT	770	770	
20100100	CTONE DIDDAD CLASS AF	CO VD	CEO		650
28100109	STONE RIPRAP, CLASS A5	SQ YD	650		650
28200200	FILTER FABRIC	SQ YD	650		650
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	1,418	1,418	
31102000	SUBBASE GRANULAR MATERIAL, TYPE C	CU YD	28	28	
		+			
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	975	975	
35600708	HOT-MIX ASPHALT BASE COURSE WIDENING, 8"	SQ YD	273	273	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	7	7	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	100	100	
		1	100		
40600285	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	POUND	5,269	5,269	
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	5,670	5,670	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	214	214	
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	270	270	
				-	

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	USER NAME = stephanie.lee	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
5	PLOT DATE = 8/10/2020	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: NTS

SUMMARY OF QUANTIT	IES	F.A.P. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
IL 78 OVER WALNUT CREEK TRIBUTARY			(128B)BR-2			STARK	52	6
TE 70 OVER WALNOT CHEEK I	IIIDOTAIIT					CONTRACT	NO. 68	3897
SHEET 2 OF 6 SHEETS STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		

CONSTRUCTION CODE

				0005	0010
CODE			TOTAL	ROADWAY	STRUCTURAL
NO.	ITEM	UNIT	QUANTITY	80% - 20%	80% - 20%
1102			QUANTITY	FED-ST	FED-ST
40701891	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10 1/2"	SQ YD	535	535	
44000100	PAVEMENT REMOVAL	SQ YD	761	761	
48101600	AGGREGATE SHOULDERS, TYPE B 8"	SQ YD	159	159	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	750	750	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	850		850
50000005	DELINEODOFINENT DADO EDOVIA COATED	DOUND	07.070		07.070
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	87,230		87,230
50800515	BAR SPLICERS	EACH	246		246
51500100	NAME PLATES	EACH	1		1
52200015	PERMANENT SHEET PILING	SQ FT	735		735
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	683		683
54003000	CONCRETE BOX CULVERTS	CU YD	448.2		448.2
E0100100	CEOCOMPOSITE WALL DRAIN	60.75	770		770
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	339		339
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	700.0	700.0	
33330001					

*= SPECIALTY ITEM

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ü	O A T E S
NAME:	ASSOCIATES
z	www.oatesassociates.com
Ξ	
_	ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115

 USER NAME
 = stephanie.lee
 DESIGNED
 REVISED

 DRAWN
 REVISED

 PLOT SCALE
 = 40.0000 ' / in.
 CHECKED
 REVISED

 PLOT DATE
 = 8/10/2020
 DATE
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 78 OVER WALNUT CREEK TRIBUTARY

SHEET 3 OF 6 SHEETS STA. TO STA

SCALE: NTS

CONSTRUCTION CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0005 ROADWAY 80%-20% FED-ST	0010 STRUCTURAL 80%-20% FED-ST
63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	100.0	100.0	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	854	854	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	10	10	
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	2	2	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8	
67000600	ENGINEER'S FIELD LABORATORY	CAL MO	8	8	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	

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| LLINOIS DESIGN FIRM LICENSE NO.: 184.001115 | PLOT DATE = 8/10/2020

 USER NAME
 = stephanie lee
 DESIGNED
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 REVISED

 PLOT DATE
 = 8/10/2020
 DATE
 REVISED

*= SPECIALTY ITEM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

IL 78 OVER WALNUT CREEK TRIBUTARY

SHEET 4 OF 6 SHEETS STA. TO

CONSTRUCTION CODE

				0005	0010
CODE			TOTAL	ROADWAY	STRUCTURAL
NO.	ITEM	UNIT	QUANTITY	80% - 20%	80% - 20%
NO.			QUANTITI	FED-ST	FED-ST
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	14	14	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	14		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2 , 559	2,559	
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	9,288	9,288	
70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	24	24	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	450	450	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	425	425	
	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL				
70600251	3	EACH	2	2	
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2	
72400100	NEWOVE STON FANCE ASSEMBLE THE A	LACIT	2		
72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2	
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2,559	2 , 559	
		. 501			
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	11	11	
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	12	12	

*= SPECIALTY ITEM

NAME: D.(O A T E S ASSOCIATES
ä	www.oatesassocjates.com
١	ILLINOIS DESIGN FIRM LICENSE NO.: 184.001111

 USER NAME
 = stephanie.lee
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 PLOT SCALE
 = 40.0000 ' / in.
 CHECKED
 REVISED

 PLOT DATE
 = 8/10/2020
 DATE
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES

IL 78 OVER WALNUT CREEK TRIBUTARY

SHEET 5 OF 6 SHEETS STA. TO

SCALE: NTS

CONSTRUCTION CODE

CODE NO.	ITEM	118177	TOTAL	ROADWAY	STRUCTURA
	ITEM	LINET T			
NO.	1 100	UNIT	QUANTITY	80% - 20%	80% - 20%
			QUANTITY	FED-ST	FED-ST
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	11	11	
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	522	522	
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	339		339
X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	142	142	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	3,313	3,313	
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	4,006	4,006	
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	222	222	
Z0005216	HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL	SQ YD	390	390	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0022800	FENCE REMOVAL	FOOT	444	444	
Z0034105	MATERIAL TRANSFER DEVICE	TON	569	569	
Z0054500	ROCK FILL	TON	623		623
Z0076600	TRAINEES	HOUR	1,000	1,000	
Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	1,000	1,000	

DESIGNED -REVISED -DRAWN -REVISED -CHECKED -REVISED -DATE REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES IL 78 OVER WALNUT CREEK TRIBUTARY SHEET 6 OF 6 SHEETS STA.

CONSTRUCTION CODE

SECTION (128B)BR-2

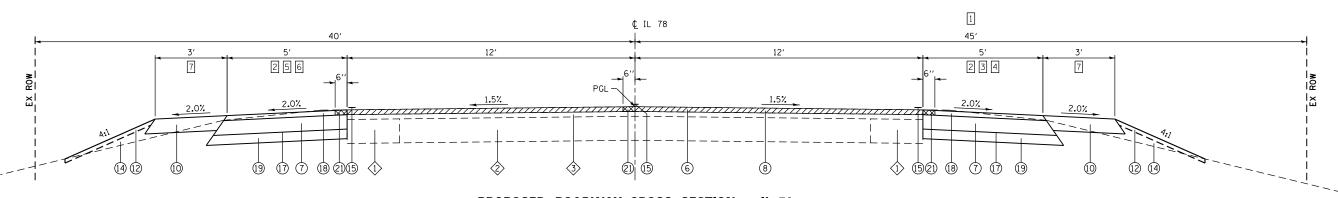
NOTES

- 1 ROW IS 40' FROM CENTERLINE STARTING AT STA 256+00
- [2] TRANSITION HMA SHOULDER FROM 2' TO 5' FROM STA. 249+00 TO STA. 249+40 AND FROM STA. 257+10 TO STA. 257+50
- 3 HMA SHOULDER 5' WIDE FROM STA. 249+40 TO STA. 250+36 RT TRANSITION HMA SHOULDER FROM 5' TO 8' FROM STA. 250+36 TO STA. 250+54 RT
- 4 TRANSITION HMA SHOULDER FROM 8' TO 5' FROM STA. 256+22 TO STA. 256+40 RT HMA SHOULDER 5' WIDE FROM STA. 256+40 TO STA. 257+10 RT
- TRANSITION HMA SHOULDER FROM 5' TO 8' FROM STA. 249+94 TO STA. 250+12 LT
- 6 TRANSITION HMA SHOULDER FROM 8' TO 5' FROM STA. 256+60 TO STA. 256+72 LT
- TRANSITION AGG SHOULDER FROM 2' TO 3' FROM STA. 249+00 TO STA. 249+40 AND FROM STA. 257+10 TO STA. 257+50

LEGEND

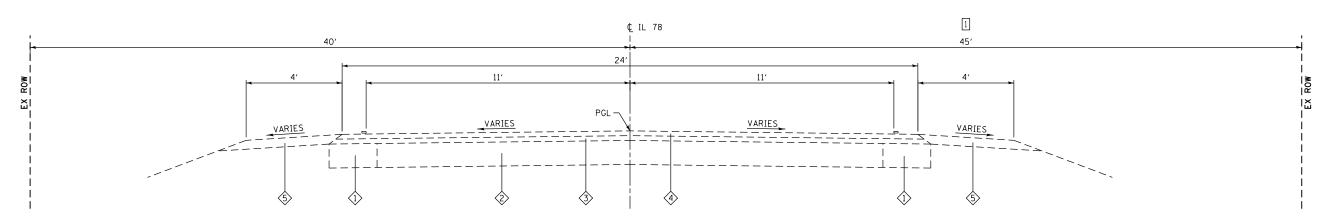
- 1 EXISTING BITUMINOUS BASE COURSE WIDENING
- ♠ EXISTING PCC PAVEMENT
- 3 EXISTING BITUMINOUS OVERLAY
- 4 EXISTING BITUMINOUS SURFACE COURSE
- 5 EXISTING AGGREGATE SHOULDER

- 6 PROPOSED HMA SURFACE COURSE, 2"
- (7) PROPOSED HMA SHOULDER, 6"
- (8) PROPOSED HMA SURFACE REMOVAL, VARIABLE DEPTH (2" AVERAGE)
- (9) PROPOSED HMA SHOULDER, 8"
- (0) PROPOSED AGGREGATE SHOULDER, 8"
- (1) PROPOSED HMA STABILIZATION, 6"
- (12) PROPOSED TOPSOIL FURNISH AND PLACE, 4"
- (3) PROPOSED FULL DEPTH HMA, 10.5"
- (14) PROPOSED EMBANKMENT
- (5) PROPOSED EPOXY PAVEMENT MARKING LINE 4"
- (6) PROPOSED AGGREGATE BASE COURSE, 4"
- (7) PROPOSED PRIME COAT
- (18) PROPOSED HMA SHOULDER, 2"
- (9) PROPOSED SUBBASE GRANULAR MAT, TYPE B, 4"
- PROPOSED SUBBASE GRANULAR MAT, TYPE C
- 21) PROPOSED HMA SURFACE REMOVAL, SPECIAL (MILL WIDE / PAVE WIDE)



PROPOSED ROADWAY CROSS SECTION - IL 78

(Looking South)
STA. 249+00 TO STA. 250+12
STA. 256+15 TO STA. 257+50
(NOT TO SCALE)



EXISTING ROADWAY CROSS SECTION - IL 78

(Looking South)
STA. 249+00 TO STA. 257+50
(NOT TO SCALE)



USER NAME = stephanie,lee	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/7/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	IL 78				L SECT	IONS EEK TRIBU	TARY
SCALE: NTS	SHEET	1	OF	2	SHEETS	STA.	TO STA.

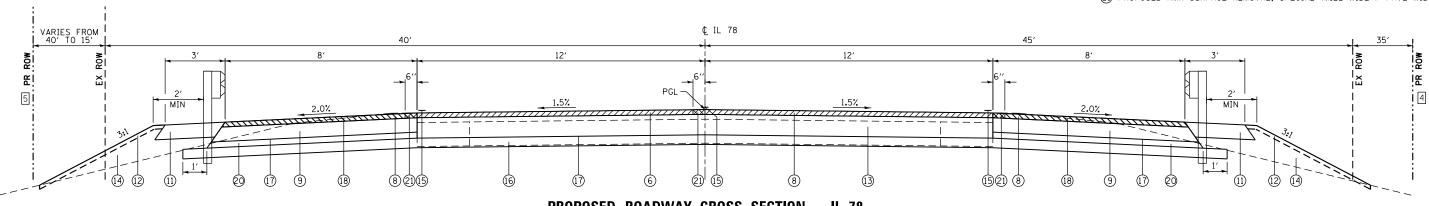
NOTES

- 1 GUARDRAIL FROM STA. 250+46 TO STA. 255+46 LT
- 2 GUARDRAIL FROM STA. 250+88 TO STA. 255+88 RT
- 3 TRANSITION HMA SHOULDER FROM 5' TO 8' FROM STA. 250+36 TO STA. 250+54 RT HMA SHOULDER 8' WIDE FROM STA. 250+54 TO STA. 256+22 RT
- 4 PR ROW FROM STA. 252+50 TO STA. 255+15 RT
- 5 PR ROW 40' FROM STA. 251+25 TO STA. 253+80 LT AND 15' FROM STA. 253+80 TO STA. 256+15 LT
- 6 PR TCE FROM STA. 254+58 TO STA. 255+85 LT
- 7 SEE HIGHWAY STANDARDS FOR HMA STABILIZATION REQUIREMENTS. THIS ITEM IS ONLY REQUIRED BEHIND PROPOSED GUARDRAIL. SEE PLAN AND PROFILE SHEETS FOR EXACT LOCATIONS.

LEGEND

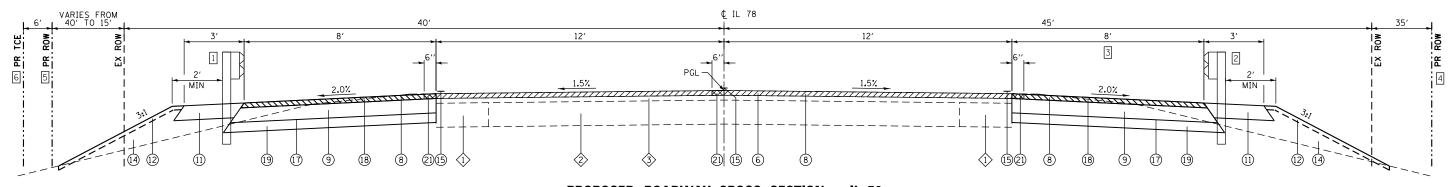
- 1 EXISTING BITUMINOUS BASE COURSE WIDENING
- 2 EXISTING PCC PAVEMENT
- 3 EXISTING BITUMINOUS OVERLAY
- 4 EXISTING BITUMINOUS SURFACE COURSE
- \$\sigma\text{S} EXISTING AGGREGATE SHOULDER

- (6) PROPOSED HMA SURFACE COURSE, 2"
- (7) PROPOSED HMA SHOULDER, 6"
- (8) PROPOSED HMA SURFACE REMOVAL, VARIABLE DEPTH (2" AVERAGE)
- (9) PROPOSED HMA SHOULDER, 8"
- 10 PROPOSED AGGREGATE SHOULDER, 8"
- (1) PROPOSED HMA STABILIZATION, 6"
- (2) PROPOSED TOPSOIL FURNISH AND PLACE, 4"
- (3) PROPOSED FULL DEPTH HMA, 10.5"
- (14) PROPOSED EMBANKMENT
- (5) PROPOSED EPOXY PAVEMENT MARKING LINE 4"
- (6) PROPOSED AGGREGATE BASE COURSE, 4"
- (17) PROPOSED PRIME COAT
- (18) PROPOSED HMA SHOULDER, 2"
- 19 PROPOSED SUBBASE GRANULAR MAT, TYPE B, 4"
- PROPOSED SUBBASE GRANULAR MAT, TYPE C
- 21) PROPOSED HMA SURFACE REMOVAL, SPECIAL (MILL WIDE / PAVE WIDE)



PROPOSED ROADWAY CROSS SECTION - IL 78

(Looking South) STA. 252+25 TO STA. 254+25 (NOT TO SCALE)



PROPOSED ROADWAY CROSS SECTION — IL 78

(Looking South) STA. 250+12 TO STA. 252+25 STA. 254+25 TO STA. 256+15 (NOT TO SCALE)

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Ē	ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115	Р

5	PLOT DATE = 8/7/2020	DATE -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
		DRAWN -	REVISED -
١	USER NAME = stephanie lee	DESIGNED -	REVISED -

	IL 78	0/			AL SECT Nut cr		RIBUTARY
SCALE: NTS	SHEET	2	OF	2	SHEETS	STA.	TO STA.

F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEE
0022	(128B)BR-2		STARK	52	12
			CONTRACT	NO. 68	3897
	TLUMOIS	EED A	ID PROJECT		

PAVEMENT

STATION	STATION	OFFSET	SUB GRAN MAT B 4	SUB GRAN MAT C	AGG BASE CSE B 4	HMA BC WID 8	AGG SURF CSE B	P BIT MATLS PR CT	P BIT MATLS TACK CT	HMA SURF REM BUTT JT	HMA SC IL-9.5 D N50	HMA PAVT FD 10 1/2	PAVEMENT REM	AGGREGATE SHLDS B 8	HMA SHOULDERS	HMA SURF REM SPL	HMA SURF REM VAR DP	MATL TRANSFER DEVICE
							(NOTE 1)	(NOTE 1)	(NOTE 1 & 4)		(NOTE 1 & 2)				(NOTE 1 & 4)		(NOTE 3)	(NOTE 1)
			(SQ YD)	(CU YD)	(SQ YD)	(SQ YD)	(TON)	(POUND)	(POUND)	(SQ YD)	(TON)	(SQ YD)	(SQ YD)	(SQ YD)	(TON)	(SQ YD)	(SQ YD)	(TON)
STAGE 1, PH	IASE 1						11	<u>'</u>			'			1	'		•	
250+12.0	253+09.0	RT	161			144		361	104									
253+50.0	256+15.0	RT	144			129		322	93									
STAGE 1, PH	IASE 2																	
250+12.0	252+25.0	LT	211					474	284						88			
252+25.0	254+25.0	LT		14	443			945	586			212	307		83			125
254+25.0	256+15.0	LT	194					435	260						81			
STAGE 2																		
250+12.0	252+25.0	RT											95					
250+54.0	252+25.0	RT	170					381	228						71			
252+25.0	254+25.0	RT		14	532			1,145	714			323	250		83			190
254+25.0	256+22.0	RT	195					438	262						82			
254+25.0	256+15.0	RT											84					
STAGE 3																		
249+00.0	249+40.0	CL								107								
249+00.0	257+50.0	CL							2,593		254				157		2,267	254
249+00.0	250+12.0	LT	70					157	90					36	21			
249+00.0	250+54.0	RT	98					219	126					52	30			
250+12.0	256+15.0	LT															541	
250+54.0	256+22.0	RT															505	
256+15.0	257+50.0	LT	94					211	124					29	29			
256+22.0	257+50.0	RT	81					181	104					42	25			
256+25.0	256+47.0	LT					7						25					
257+10.0	257+50.0	CL								107								
	/ PAVE WIDE								102		16					142		
TOTAL			1,418	28	975	273	7	5,269	5,670	214	270	535	761	159	750	142	3,313	569

PAVEMENT NOTES:

APPLICATION RAIES USED HOT-MIX ASPHALT:
AGGREGATE SURFACE:
P BIT MATLS PR CT:
P BIT MATLS TACK CT: MILLED SURFACE
LIFTS APPLICATION RATES USED FOR QUANTITY ESTIMATES ARE AS FOLLOWS: 0.056 TONS/SQ YD/INCH 2.1 TON/CU YD

0.25 LBS/SQ FT 0.08 LBS/SQ FT 0.08 LBS/SQ FT

- THE PROPOSED HMA SURFACE COURSE SHALL BE 2 IN. THICK.
- MINIMUM DEPTH OF HMA SURFACE REMOVAL, 1/2 IN. THICK ASSUMED 2 LIFT APPLICATIONS OF P BIT MATLS TACK CT ON HMA PAVT FD 10 1/2 AND HMA SHOULDERS

SURVEY MARKERS

STATION	OFFSET	PERM SURV MKRS T1
		(EACH)
249+00.0	CL	1
258+00.0	CL	1
TOTAL	2	

ROW MARKERS

IIOW WAIKEIIO								
OFFSET	FUR ERECT ROW MARKERS							
	(EACH)							
LT	1							
LT	1							
RT	1							
RT	1							
LT	1							
LT	1							
RT	1							
RT	1							
LT	1							
LT	1							
	10							
	OFFSET LT LT RT RT LT LT RT LT LT L							

FENCE

STATION	STATION	OFFSET	FENCE REMOVAL
			(FOOT)
250+70.7	252+28.2	LT	233
252+73.5	254+56.9	LT	211
TOTAL			444
		<u> </u>	

GUARDRAIL

STATION	STATION	LOCATION	SPBGR TY A 6FT POSTS	SPGR ATT TO CULVERT	TR BAR TRM T1 SPL TAN	GUARDRAIL REMOV	TERMINAL MARKER - DA	GRDRAIL REF TYPE A	HMA STAB 6 AT SPBGR
			(F00T)	(F00T)	(EACH)	(F00T)	(EACH)	(EACH)	(SQ YD)
250+12.0	255+80.0	LT							195
250+46.0	252+74.7	LT				229			
250+46.0	250+96.0	LT			1		1		
250+54.0	256+22.0	RT							195
250+88.0	251+38.0	RT			1		1		
250+88.0	253+07.4	RT				220			
250+96.0	252+77.0	LT	175.0					3	
251+38.0	253+05.0	RT	175.0					3	
252+77.0	253+27.0	LT		50.0					
253+05.0	253+55.0	RT		50.0					
253+27.0	254+96.0	LT	175.0					3	
253+42.5	255+44.7	LT				203			
253+55.0	255+38.0	RT	175.0					3	
253+84.0	255+86.0	RT				202			
254+96.0	255+46.0	LT			1		1		
255+38.0	255+88.0	RT			1		1		
TOTAL			700.0	100.0	4	854	4	12	390

TRFF RFMOVAL

IVIOVAL		
OFFSET	TREE REMOV 6-15	TREE REMOV OVER 15
	(UNIT)	(UNIT)
37.8′ LT	6	
40.2' LT	10	
39.0' LT	10	
41.4′ LT		32
43.4′ LT	10	
45.9′ LT	10	
28.7′ LT	6	
35.4′ LT		38
	52	70
	37.8' LT 40.2' LT 39.0' LT 41.4' LT 43.4' LT 45.9' LT 28.7' LT	OFFSET TREE REMOV 6-15 (UNIT) 37.8' LT 6 40.2' LT 10 39.0' LT 10 41.4' LT 43.4' LT 10 45.9' LT 10 28.7' LT 6 35.4' LT

SCALE: NTS

MISCELLANEOUS

1111002227,1112000		
DESCRIPTION	UNIT	QUANTITY
ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8
ENGINEER'S FIELD LABORATORY	CAL MO	8
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 701326	L SUM	1
TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
TEMPORARY RUMBLE STRIPS	EACH	6
CHANGEABLE MESSAGE SIGN	CAL DA	14
CONSTRUCTION LAYOUT	L SUM	1

ñΙ	
NAME: HIV	O A T E S ASSOCIATES
Щ	www.oatesassocjates.com
Ξ	ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115

	USER NAME = stephanie.lee	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
5	PLOT DATE = 8/10/2020	DATE -	REVISED -

	SCH	EDU	LES	OF QU	ANTITIES			F
II 79	OVE	2 1/1	ΛII	ALLIT CB	EEK TRIB	IITARV		(
IL /0	OVL	1 44	~L:	101 CII	LLK IIIID	UIAIII	[Г
SHEET	1	OF	2	SHEETS	STA.	TO STA.	ı	_

F.A.P. RTE	SECT	SECTION (128B)BR-2			TOTAL SHEETS	SHEI
0022	(128B)BR-2			STARK	52	13
				CONTRACT	NO. 6	3897
		ILLINOIS	FED. A	ID PROJECT		

EROSION CONTROL

STATION	ATION STATION OFFSET		EROSION CONTR BLANKET	TEMP EROS CONTR SEED	TEMP DITCH CHECKS	PERIMETER EROS BAR
				(NOTE 1)		
			(SQ YD)	(POUND)	(FOOT)	(FOOT)
249+00.0	252+00.0	LT				307
249+00.0	250+00.0	RT				102
249+00.0	252+76.0	LT		36		
249+00.0	253+13.0	RT		40		
250+00.0	253+00.0	RT			54	
253+19.0	257+50.0	LT		40		
253+50.0	256+20.0	LT			72	
253+56.0	257+50.0	RT		34		
255+00.0	257+50.0	RT				255
254+50.0	255+00.0	RT			9	
254+50.0	256+25.0	LT	313			
256+46.0	257+50.0	LT			17	106
TOTAL	ITDOL NOTES		313	150	152	770

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.

EARTHWORK

STATION	STATION OFFSET		EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	FURNISHED EXCAVATION WASTE (+) OR SHORTAGE (-)	TOPSOIL F & P 4
				(NOTE 1)	(NOTE 2)	(NOTE 3)	
			(CU YD)	(CU YD)	(CU YD)	(CU YD)	(SQ YD)
249+00.0	257+50.0	CL	1065	800	950	-150	
249+00.0	252+76.0	LT					829
249+00.0	253+13.0	RT					918
253+19.0	257+50.0	LT					913
253+56.0	257+50.0	RT					770
TOTAL			1,065	800	950	-150	3,430

EARTHWORK NOTES:

- ESTIMATED SHRINKAGE FACTOR = 25%.

 APPROXIMATE EMBANKMENT QUANTITY IS SHOWN FOR INFORMATION ONLY.

 DOES NOT INCLUDE ANY EXCESS MATERIAL FROM THE CULVERT EXCAVATION.

TRAFFIC CONTROL

STATION	OFFSET	STATION	OFFSET	TEMP CONC BARRIER	REL TEMP CONC BARRIER	IMP ATTN TEMP NRN TL3	IMP ATTN REL NRN TL3	PIN TEMP CONC BARRIER
				(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)
STAGE 1								
251+16.0	LT					1		
251+16.0	LT	255+34.0	LT	425				108
255+34.0	LT					1		
STAGE 2								
251+04.0	RT						1	
251+04.0	RT	255+46.0	RT	25	425			114
255+46.0	RT						1	
TOTAL				450	425	2	2	222

PAVEMENT MARKING

STATION	STATION	OFFSET	DESCRIPTION	TEMP PVT MK LINE 4	PAVT MARK TAPE T4 4	PAVT MARK TAPE T4 24	MOD URETH PM LINE 4 (YELLOW)	MOD URETH PM LINE 4 (WHITE)	RAISED REFL PAVT MKR	RAISED REF PVT MK REM	PAVMT MRKG REM WTR BL	TEMP PAVT MKING REMOV
			(NOTE 5)	(NOTE 4)	(NOTE 1 & 2)		(NOTE 3)	(NOTE 3)				
				(FOOT)	(FOOT)	(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(SQ FT)	(SO FT)
STAGE 1, PH	ASE 1											'
249+10.0	250+12.0	RT	EDGE LINE - SOLID		102							34
249+10.0	257+35.0	LT	EDGE LINE - SOLID		825							275
250+12.0	256+15.0	RT	EDGE LINE - SOLID		603							201
256+15.0	257+35.0	RT	EDGE LINE - SOLID		120							40
STAGE 1, PH	ASE 2											
249+11.0		RT	STOP BAR			12						24
249+10.0	251+25.0	CL	CENTERLINE - SKIP DASH & SOLID								92	
249+75.0	257+17.0	LT	EDGE LINE - SOLID		744							248
250+76.5	255+73.5	RT	EDGE LINE - SOLID		498						166	166
255+25.0	257+35.0	CL	CENTERLINE - SKIP DASH & SOLID								90	
257+35.0		LT	STOP BAR			12						24
STAGE 2												
249+21.0	256+75.0	RT	EDGE LINE - SOLID		756							252
250+64.5	255+85.5	LT	EDGE LINE - SOLID		522						174	174
STAGE 3												
249+00.0	257+50.0	CL	CENTERLINE - SKIP DASH	220	440		220		11	11		222
249+00.0	252+95.0	CL	CENTERLINE - SOLID	395	790		395					396
249+00.0	257+50.0	LT	EDGE LINE - SOLID	850	1700			850				852
249+00.0	257+50.0	RT	EDGE LINE - SOLID	850	1700			850				852
255+06.0	257+50.0	CL	CENTERLINE - SOLID	244	488		244					246
TOTAL PAVEMENT M				2,559	9,288	24	859	1,700	11	11	522	4,006

- MARKING NOTES:

 STAGE 1, PHASE 1 QUANTITIES ARE PROVIDED TO ACCOMMODATE ANY LANE SHIFTS THAT MAY BE REQUIRED FOR THE HMA BASE COURSE WIDENING CONSTRUCTION. QUANTITY UNDER STAGE 3 REPRESENTS TWO APPLICATIONS. ONE FOR THE MILLED SURFACE AND ANOTHER FOR THE FINAL SURFACE.

 SEE HIGHWAY STANDARD 780001 FOR PAVEMENT MARKING DETAILS.

 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.

 EDGE LINE WHITE / STOP BAR WHITE / CENTERLINE YELLOW

SIGN

Oldit						
STATION	OFFSET	TYPE	DESCRIPTION	SIZE	REMOV SIN PAN ASSY TA	RELOC SIN PAN ASSY TA
				(IN X IN X IN)	(EACH)	(EACH)
252+93.5	19 . 2′ RT	W14-3	NO PASSING ZONE	48 X 48 X 36	1	
252+95.0	21.0' RT	W14-3	NO PASSING ZONE	48 X 48 X 36		1
255+06.0	21.0' LT	W14-3	NO PASSING ZONE	48 X 48 X 36		1
255+07.0	20.0′ LT	W14-3	NO PASSING ZONE	48 X 48 X 36	1	
TOTAL:					2	2

SEEDING

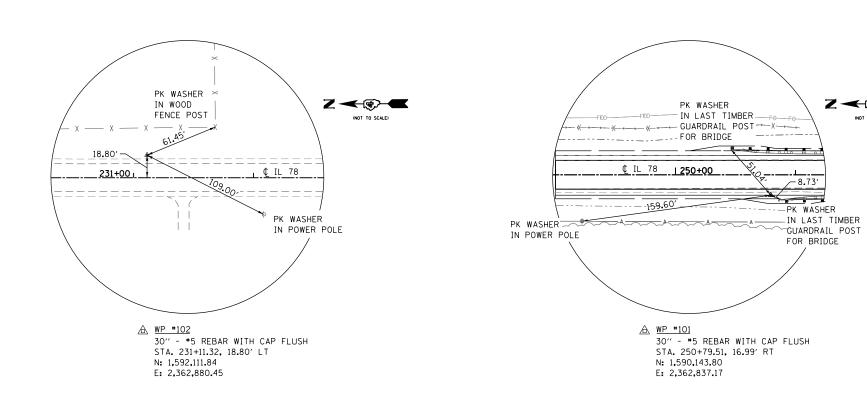
OLLDING							
STATION	STATION	OFFSET	SEEDING CL 2A	NITROGEN FERT NUTR		POTASSIUM FERT NUTR	MULCH METHOD 2
			(ACRE)	(POUND)	(POUND)	(POUND)	(ACRE)
249+00.0	252+76.0	LT	0.18	17	17	17	0.18
249+00.0	253+13.0	RT	0.20	19	19	19	0.20
253+19.0	257+50.0	LT	0.20	18	18	18	0.20
253+56.0	257+50.0	RT	0.17	16	16	16	0.17
TOTAL			0.75	70	70	70	0.75

SCALE: NTS

	1
ASSOCIATES	
A 3 3 O C A 1 E 3	-
ILLINOIS DESIGN FIRM LICENSE NO . 404 004445	

USER NAME = stephanie.lee	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 8/7/2020	DATE -	REVISED -

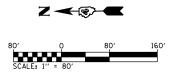
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IL /O	UV	LII V	/AL	NOT OIL	LLK II	IIIDOTAIII							CONTRAC	T NO. 6	3897
SHEET	2	OF	2	SHEETS	STA.		TO STA.				ILLINOIS	FED. A	ID PROJECT		



(NOT TO SCALE)

SCALE: NTS

◆ TBM-5 - CHISELED "□" ON TOP OF S.E. BRIDGE WING WALL, AT BRIDGE STRUCTURE #088-0012, U.S. 78 BRIDGE STA. 253+26.64 , 17.33' LT ELEVATION 663.37

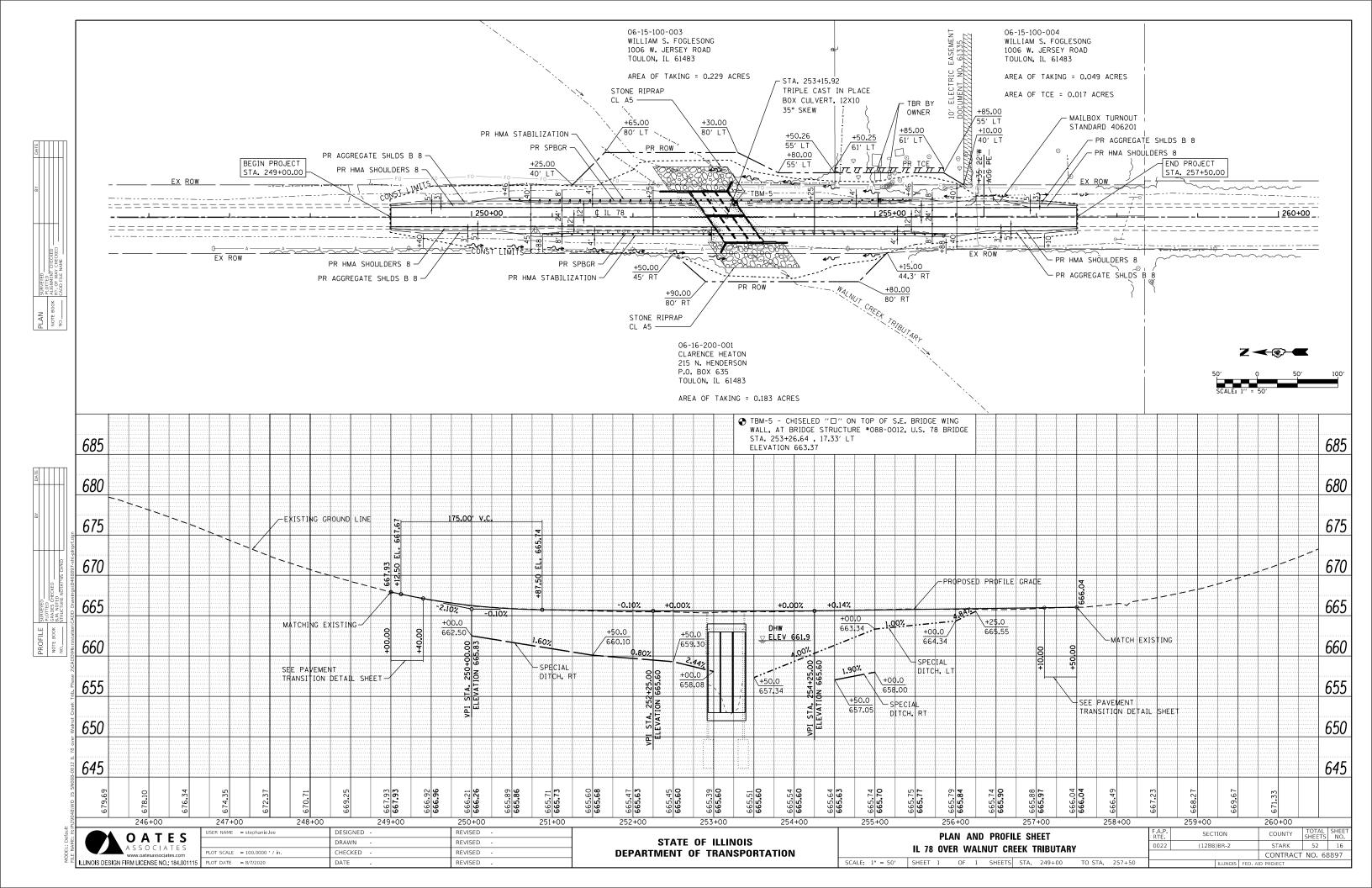


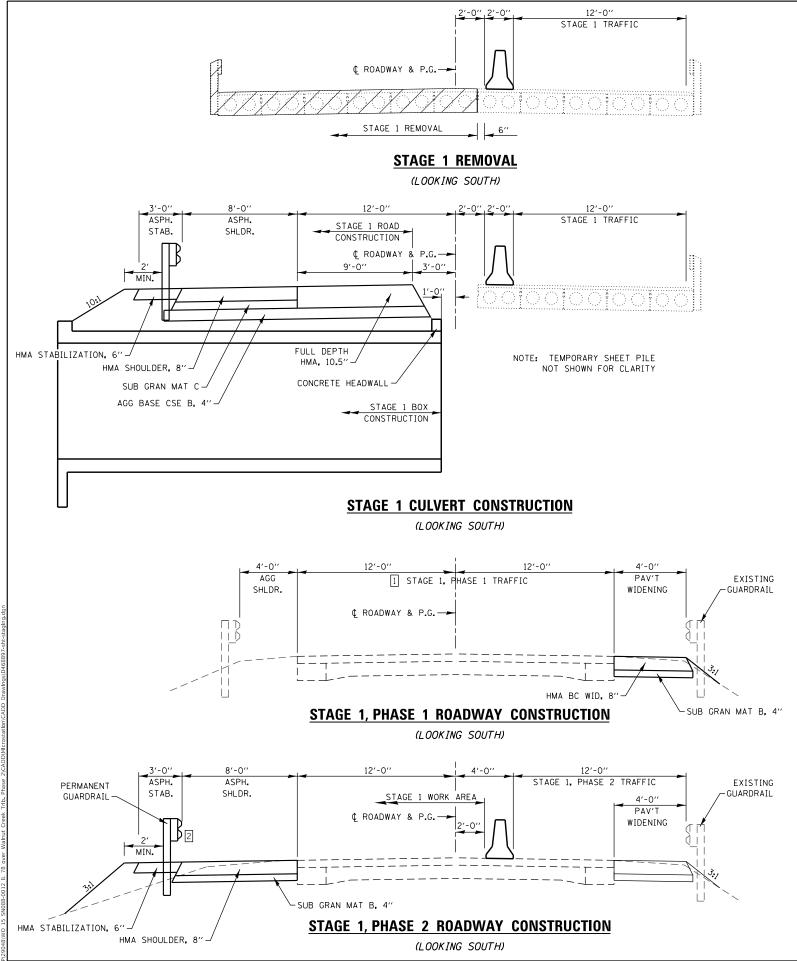
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4	www.oatesassocjates.com
-	ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115

USER NAME = stephanie.lee	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 160.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/7/2020	DATE -	REVISED -

STATE OI	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

ALIGNMI	ENT, T	IES,	AND I	BENCH	MARKS		F.A.P. RTE	SE	CTIO	N		COUNTY	TOTAL SHEETS	SHEET NO.
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IL 70 OVL	.11 447	TLIVO) OIL	LK III	IDUIAIII							CONTRACT	F NO. 68	3897
SHEET 1	OF	1 S	SHEETS	STA.		TO STA.			ILI	LINOIS	FED. A	ID PROJECT		





STAGE CONSTRUCTION GENERAL NOTES

- ONE LANE OF TRAFFIC ON ILLINOIS ROUTE 78 SHALL BE MAINTAINED AT ALL TIMES. EMERGENCY ACCESS SHALL BE PROVIDED AT ALL TIMES.

SUGGESTED STAGE 1 CONSTRUCTION

PHASE 1

- UTILIZING TRAFFIC CONTROL AND PROTECTION, STANDARD 701326, REMOVE THE EXISTING SHOULDER AND CONSTRUCT THE HMA WIDENING, 8" ON THE RIGHT SIDE OF THE ROADWAY FROM STA. 250+12 TO STA. 256+15.
- INSTALL TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 TO CLOSE THE LEFT HALF OF THE ROADWAY. SEE "TRAFFIC CONTROL NOTES" FOR MORE DETAILS.
- INSTALL PAVEMENT MARKING TAPE TYPE IV FOR STAGE 1, PHASE 2 TRAFFIC.
- PLACE TEMPORARY CONCRETE BARRIER AND IMPACT ATTENUATORS AS SHOWN ON THE NEXT SHEET.

- UTILIZING TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, DIRECT TRAFFIC TO THE RIGHT LANE OF IL ROUTE 78.
- CONSTRUCT TEMPORARY SHEET PILING AT THE NORTH AND SOUTH SIDES OF THE EXISTING STRUCTURE AND REMOVE THE LEFT SIDE OF THE EXISTING STRUCTURE.
- REMOVE THE EXISTING LEFT SIDE OF THE ROADWAY FROM STA. 252+25 TO STA. 254+25.
- CONSTRUCT THE LEFT SIDE OF THE CULVERT.
- CONSTRUCT THE FULL DEPTH HMA ON THE LEFT SIDE OF THE ROADWAY FROM STA. 252+25 TO STA. 254+25.
- CONSTRUCT THE LEFT SIDE OF THE HMA SHOULDER, 8" FROM STA. 250+12 TO STA. 256+15.
- INSTALL GUARDRAIL AND HMA STABILIZATION ON THE LEFT SIDE OF IL ROUTE 78 AND COMPLETE DRAINAGE AND GRADING IMPROVEMENTS.
- INSTALL PAVEMENT MARKING TAPE TYPE IV FOR STAGE 2 TRAFFIC.



PRIOR TO JUNCTION OF IL 78 AND IL 90 (2 ASSEMBLIES) AND JUNCTION OF IL 78 AND IL 17 (2 ASSEMBLIES).

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

W12-I103

WIDTH RESTRICTION SIGNING DETAILS

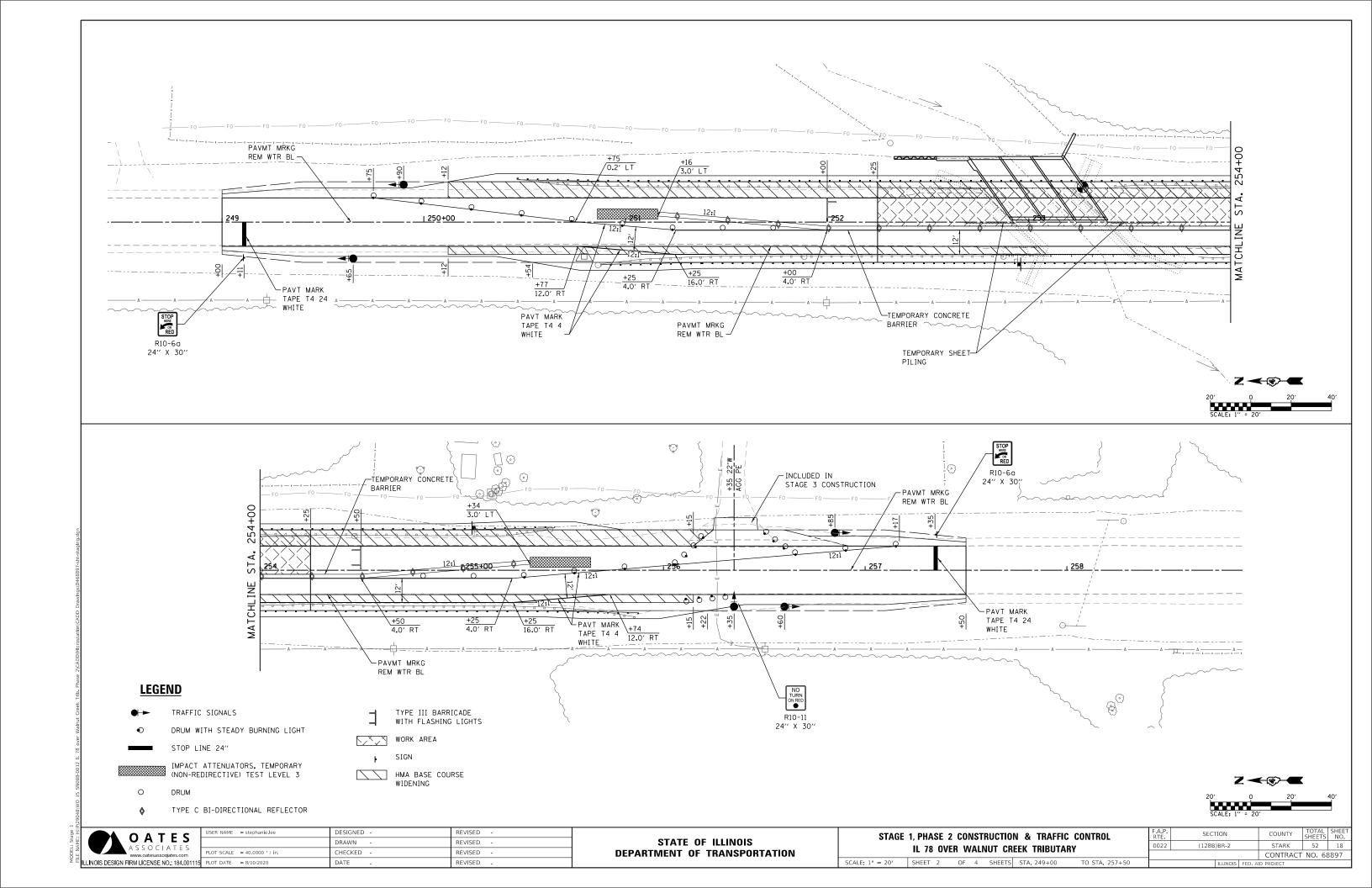
TRAFFIC CONTROL NOTES

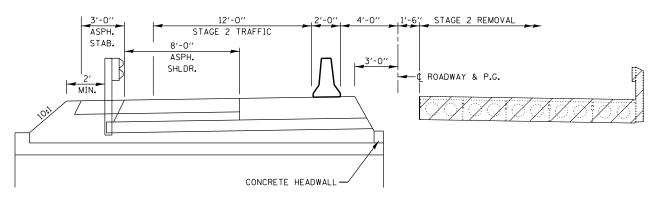
- THREE PHASE SIGNAL OPERATION IS REQUIRED WHEN HWY STD 701321 IS IN EFFECT. THE ENGINEER OF TRAFFIC SHALL APPROVE ALL TIMING PARAMETERS. THE CONTRACTOR SHALL CONTACT ERIC HOWALD, DISTRICT 4 TRAFFIC SIGNAL TECHNICIAN, AT (309) 671-4481, TWO WEEKS PRIOR TO SIGNAL TURN ON.
- THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO ALL MUTCD REQUIREMENTS.
 THE CONTRACTOR SHALL INSTALL MICROWAVE DETECTION FOR USE WITH THE TEMPORARY TRAFFIC SIGNALS IN ACCORDANCE WITH HWY STD 701321. THE CONTRACTOR MAY ELECT TO UTILIZE DETECTOR LOOPS.
- 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 NEEDS TO BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THERE WILL BE NO ADDITIONAL COMPENSATION.
- ALL TEMPORARY STRIPING, REFLECTORS, ETC. SHALL BE PLACED PRIOR TO PLACING TEMPORARY CONCRETE BARRIERS.

ADDITIONAL NOTES

- 1 TWO-WAY TRAFFIC SHALL BE PERMITTED DURING NON-CONSTRUCTION HOURS, SEE HWY STANDARD 701326 FOR LANE CLOSURE PROCEDURES DURING WIDENING OPERATIONS.
- THE PERMANENT GUARDRAIL SHALL BE BUILT TALL ENOUGH TO MEET THE HEIGHT REQUIREMENTS LISTED ON HWY STANDARD 630001 AFTER SURFACE COURSE HAS BEEN PLACED.

OATES ASSOCIATES OSERVAME SEPROMENCE DESIGNED - REVISED - STATE OF ILLINOIS STATE OF ILLINOIS IL 78 OVER WALNUT CREEK TRIBUTARY O022 (1288)BR-2 STARK	SITEETS	
	52	17
www.oatesassociates.com PLOT SCALE = 40,0000 / in. CHECKED - REVISED - DEPARTMENT OF TRANSPORTATION CONTRACT	T NO. 68	3897
NOIS DESIGN FIRM LICENSE NO. 184.001115 PLOT DATE = 8/7/2020 DATE - REVISED - RELINOIS FED. AID PROJECT		





STAGE 2 REMOVAL

(LOOKING SOUTH)

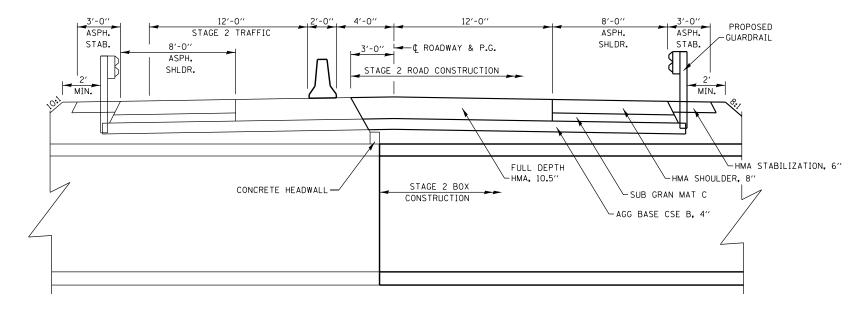
SUGGESTED STAGE 2 CONSTRUCTION

- UTILIZING TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, DIRECT TRAFFIC TO THE LEFT LANE OF IL ROUTE 78. REMOVE THE RIGHT SIDE OF THE EXISTING STRUCTURE. REMOVE THE EXISTING RIGHT SIDE OF THE ROADWAY FROM STA. 252+25 TO STA. 254+25.

- REMOVE THE PAVEMENT WIDENING, 8" FROM THE RIGHT SIDE OF THE ROADWAY FROM STA. 250+12 TO STA. 256+15.
- CONSTRUCT THE RIGHT SIDE OF THE CULVERT.
- CONSTRUCT THE FULL DEPTH HMA ON THE RIGHT SIDE OF THE ROADWAY FROM STA. 252+25 TO STA. 254+25. CONSTRUCT THE RIGHT SIDE OF THE HMA SHOULDER, 8" FROM STA. 250+54 TO STA. 256+22.
- INSTALL GUARDRAIL AND HMA STABILIZATION ON THE RIGHT SIDE OF IL ROUTE 78 AND COMPLETE DRAINAGE AND GRADING IMPROVEMENTS.

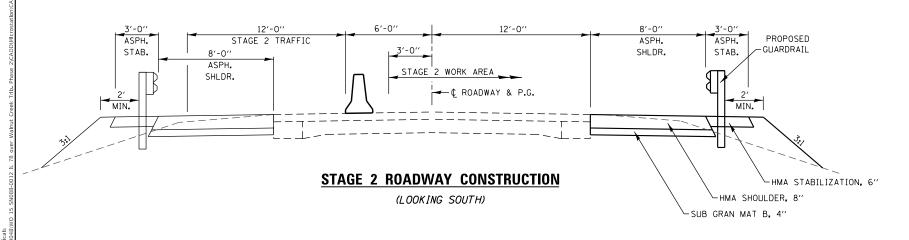
SUGGESTED STAGE 3 CONSTRUCTION

- PERFORM HMA SURFACE REMOVAL AND BUTT JOINT ON BOTH SIDES OF IL ROUTE 78 (INCLUDING NEW HMA SHOULDERS) FROM STA. 249+00 TO STA. 257+50.
- INSTALL HMA SHOULDERS (6") AND AGGREGATE SHOULDERS ON THE LEFT SIDE FROM STA. 249+00 TO STA. 250+12 AND FROM STA. 256+15 TO STA. 257+50 AND ON THE RIGHT SIDE FROM STA. 249+00 TO STA. 250+54 AND FROM STA. 256+22 TO STA. 257+50.
- CONSTRUCT PROPOSED HMA SURFACE COURSE, 2" AND HMA SHOULDER (2") FOR BOTH SIDES OF IL ROUTE 78 FROM STA. 249+00 TO
- 4. CONSTRUCT ALL REMAINING IMPROVEMENTS.



STAGE 2 CULVERT CONSTRUCTION

(LOOKING SOUTH)



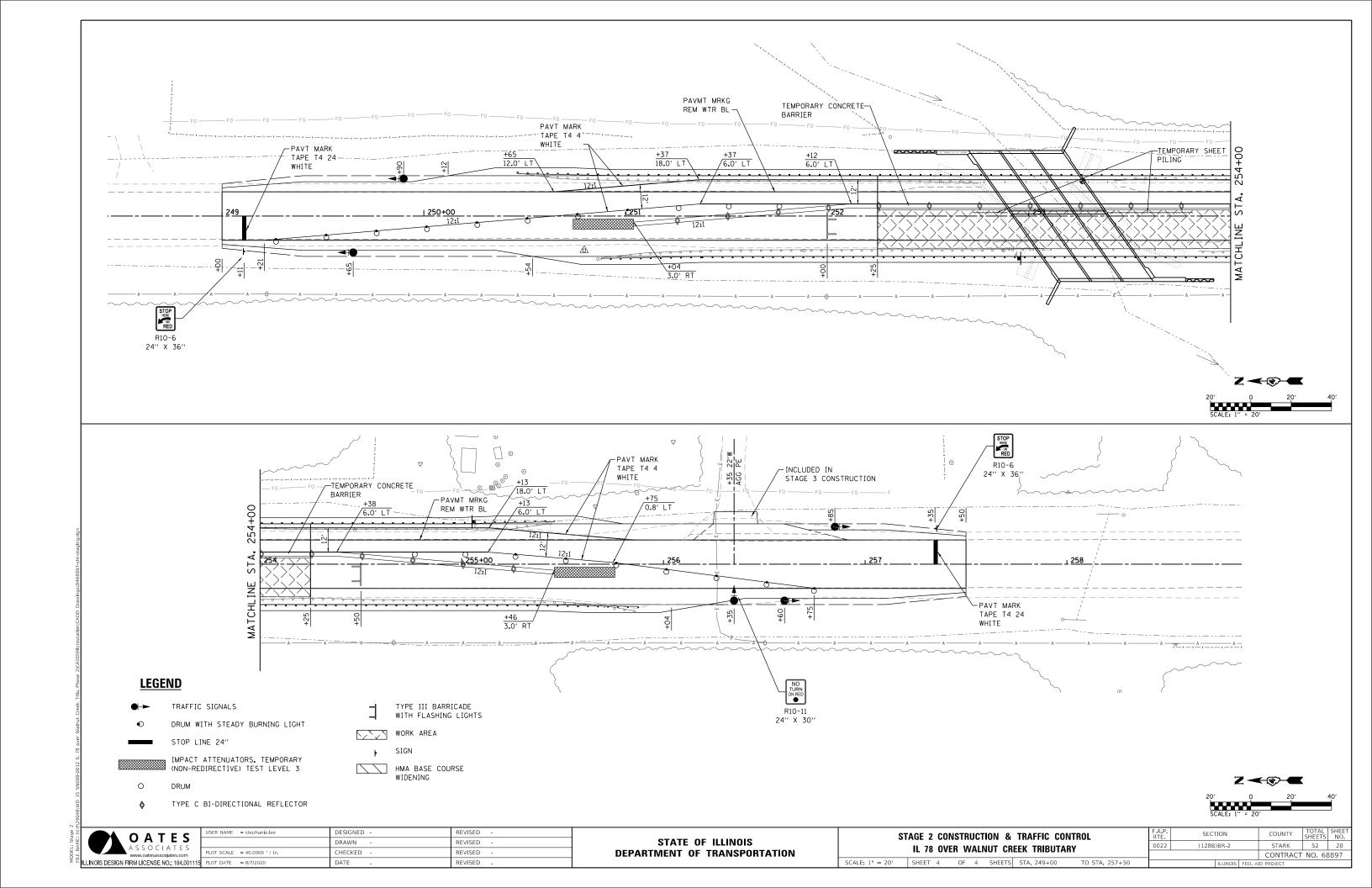
OATES ILLINOIS DESIGN FIRM LICENSE NO.: 184,001115 PLOT DATE = 8/7/2020

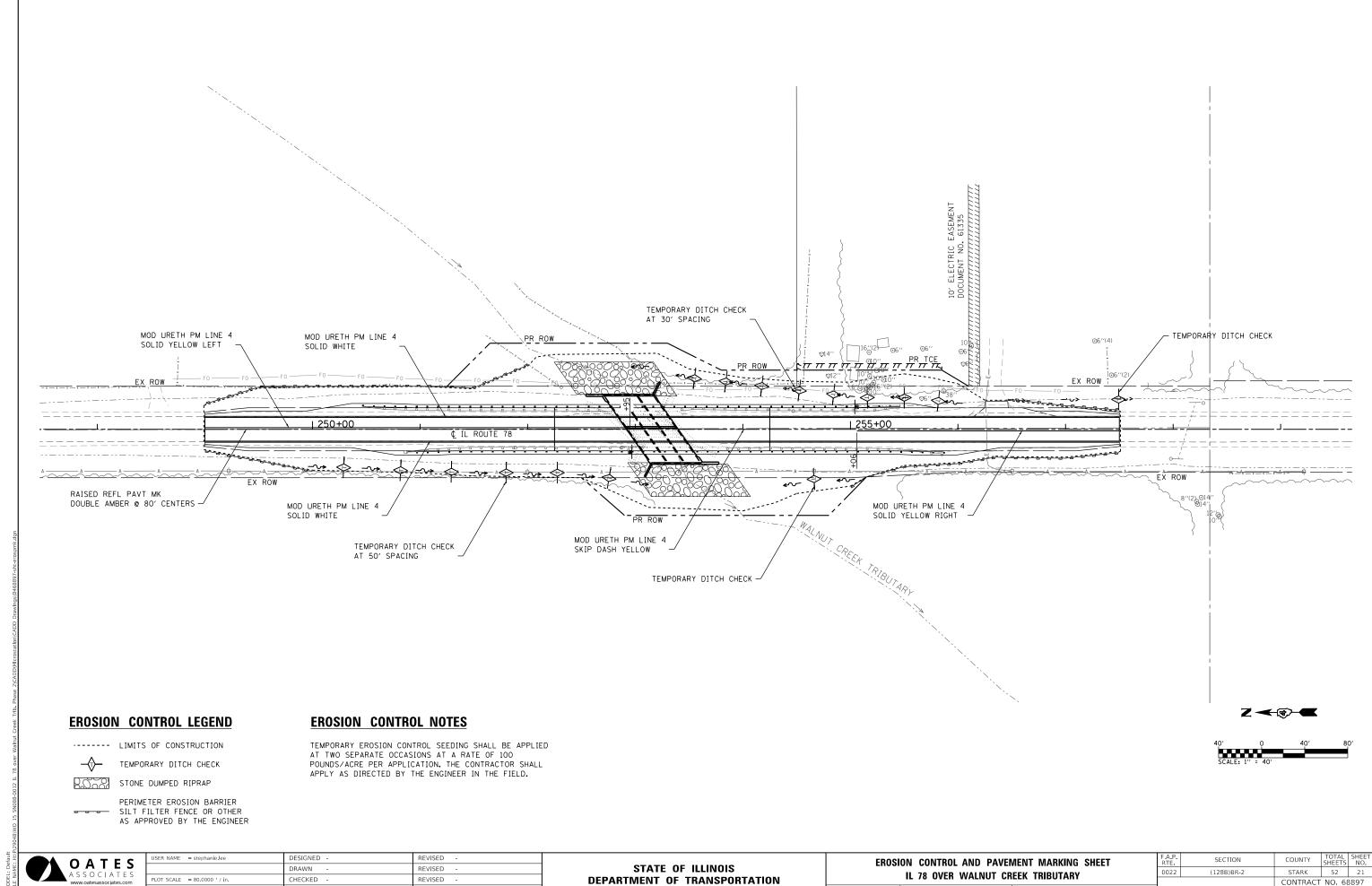
DESIGNED -REVISED DRAWN REVISED HECKED REVISED DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

STAGE 2 TYPICAL SECTIONS & STAGING NOTES IL 78 OVER WALNUT CREEK TRIBUTARY SCALE: 1" = 20' SHEET 3 OF 4 SHEETS STA.

SECTION COUNTY 0022 (128B)BR-2 STARK 52 19 CONTRACT NO. 68897

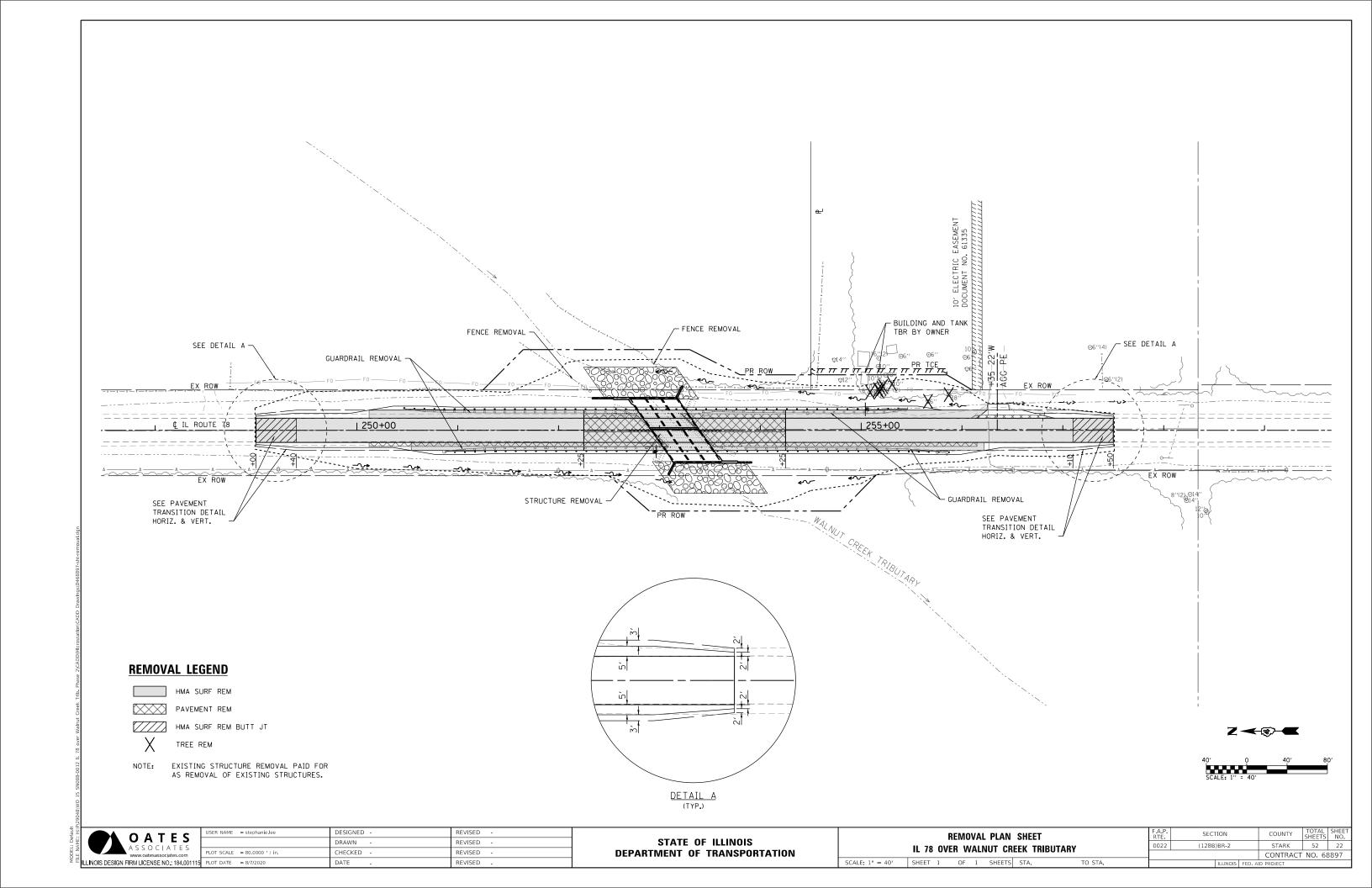


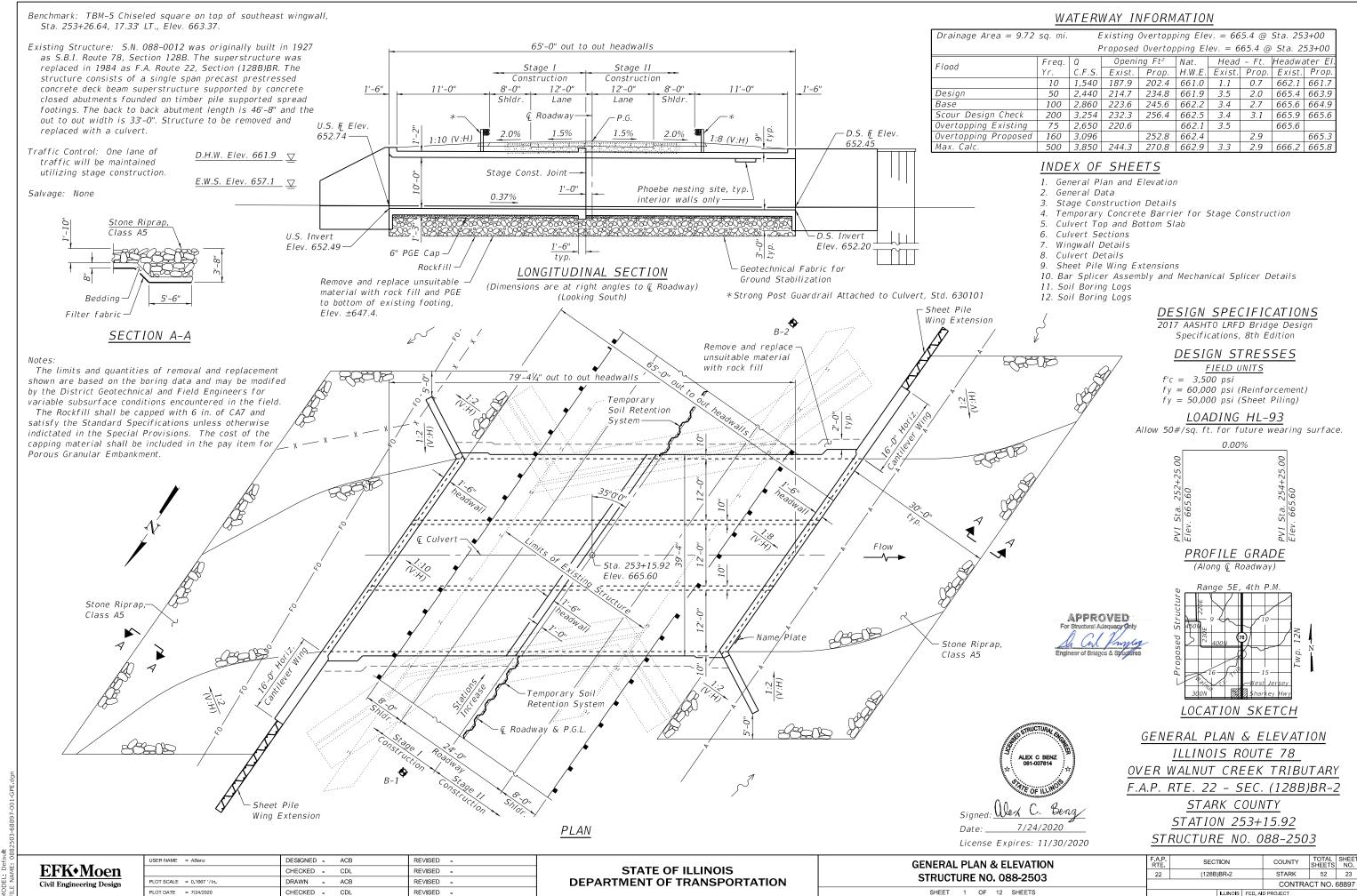


SCALE: 1" = 40' SHEET 1 OF 1 SHEETS STA.

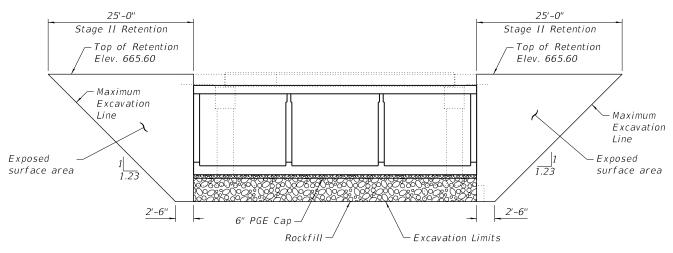
CONTRACT NO. 68897

ILLINOIS DESIGN FIRM LICENSE NO.: 184.001115 PLOT DATE = 8/7/2020





STAGE I SOIL RETENTION SYSTEM (All dimensions along & Roadway)



STAGE II SOIL RETENTION SYSTEM

(All dimensions along (Roadway)

Notes:

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	257
Geotechnical Fabric for Ground Stabilization	Sq. Yd.	386
Stone Riprap, Class A5	Sq. Yd.	650
Filter Fabric	Sq. Yd.	650
Removal of Existing Structures	Each	1
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	850
Reinforcement Bars, Epoxy Coated	Pound	87,230
Bar Splicers	Each	246
Name Plates	Each	1
Permanent Sheet Piling	Sq. Ft.	735
Temporary Soil Retention System	Sq. Ft.	683
Concrete Box Culverts	Cu. Yd.	448.2
Geocomposite Wall Drain	Sq. Yd.	339
Membrane Waterproofing System for Buried Structures	Sq. Yd.	339
Rock Fill	Ton	623

GENERAL NOTES

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

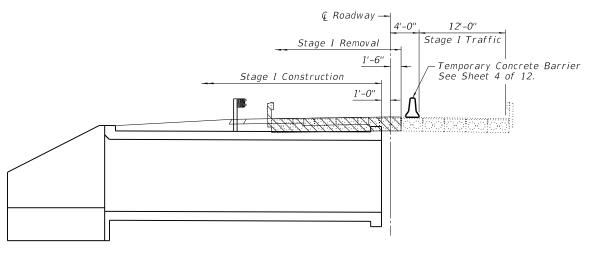
Reinforcement bars designated (E) shall be epoxy coated. Precast alternate is not allowed.

STATION 253+15.92 BUILT BY STATE OF ILLINOIS F.A.P. RTE 22 - SEC. (128B)BR-2 LOADING HL-93 STRUCTURE NO. 088-2503

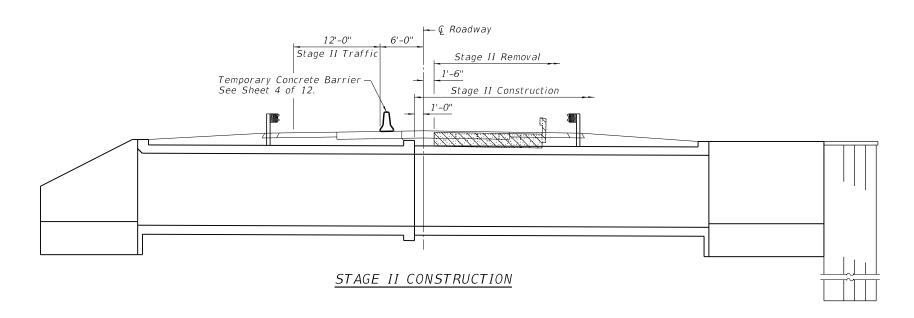
NAME PLATE
See Std. 515001

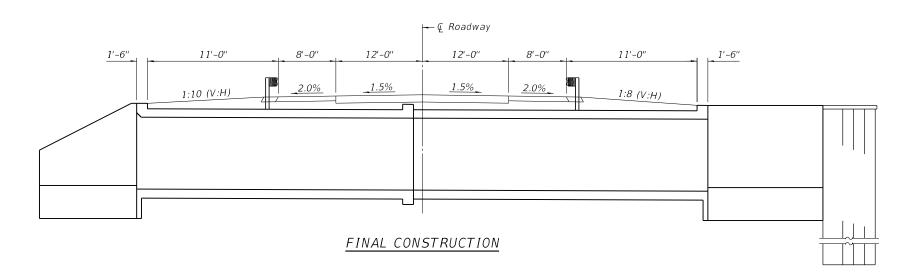
EFK•Moen
Civil Engineering Design

USER NAME = ABenz	DESIGNED - ACB	REVISED -
	CHECKED - CDL	REVISED -
PLOT SCALE = 0.1667 / In.	DRAWN - ACB	REVISED -
PLOT DATE = 7/24/2020	CHECKED - CDL	REVISED -



STAGE I CONSTRUCTION





Hatched areas indicate removal of existing structures. For quantity of temporary concrete barrier, see Roadway Plans.

All cross sections are looking South.

Dimensions for Stage Construction details are at right angles to the © Roadway.

EFK•Moen
Civil Engineering Design

USER NAME = ABenz	DESIGNED	-	ACB	REVISED -	
	CHECKED	-	CDL	REVISED -	
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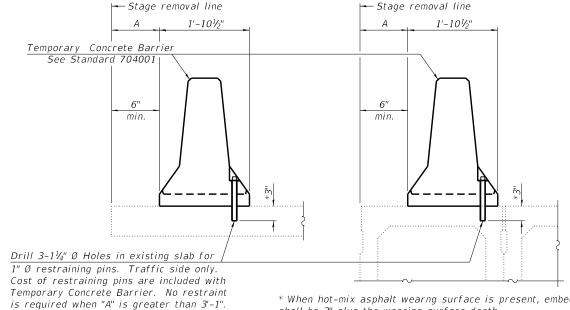
•					N DETA 88-2503	
	SHEET	3	OF	12	SHEETS	

F.A.P. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
22	(128B)BR-2		STARK	52	25	
				CONTRA	CT NO.	68897
		ILLINOIS	FED. A	D PROJECT		

- See Detail I, II or III 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

2-17-2017

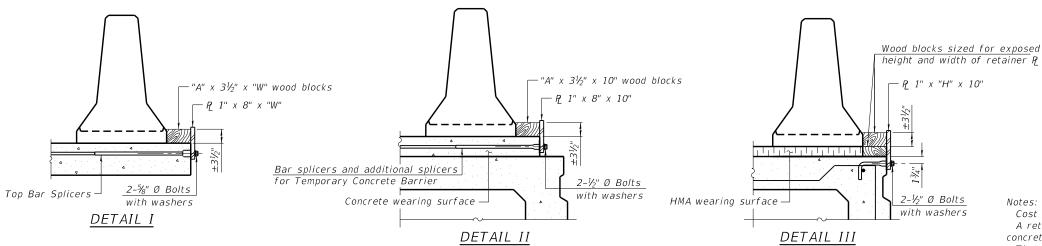


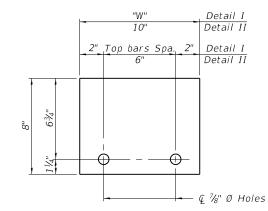
* When hot-mix asphalt wearng surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

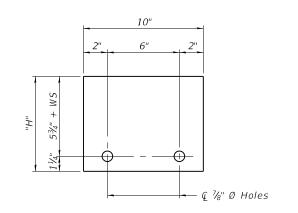
EXISTING SLAB



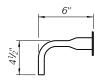


STEEL RETAINER P 1" x 8" x "W"

(Detail I and II)



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



RESTRAINING PIN

BAR SPLICER FOR #4 BAR - DETAIL III

Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate \cline{Q} of each temporary

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than $1\frac{1}{2}$ ", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

US Std. 11/16" I.D. x 21/2" O.D. x approx. 8 guage thick washer

- 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

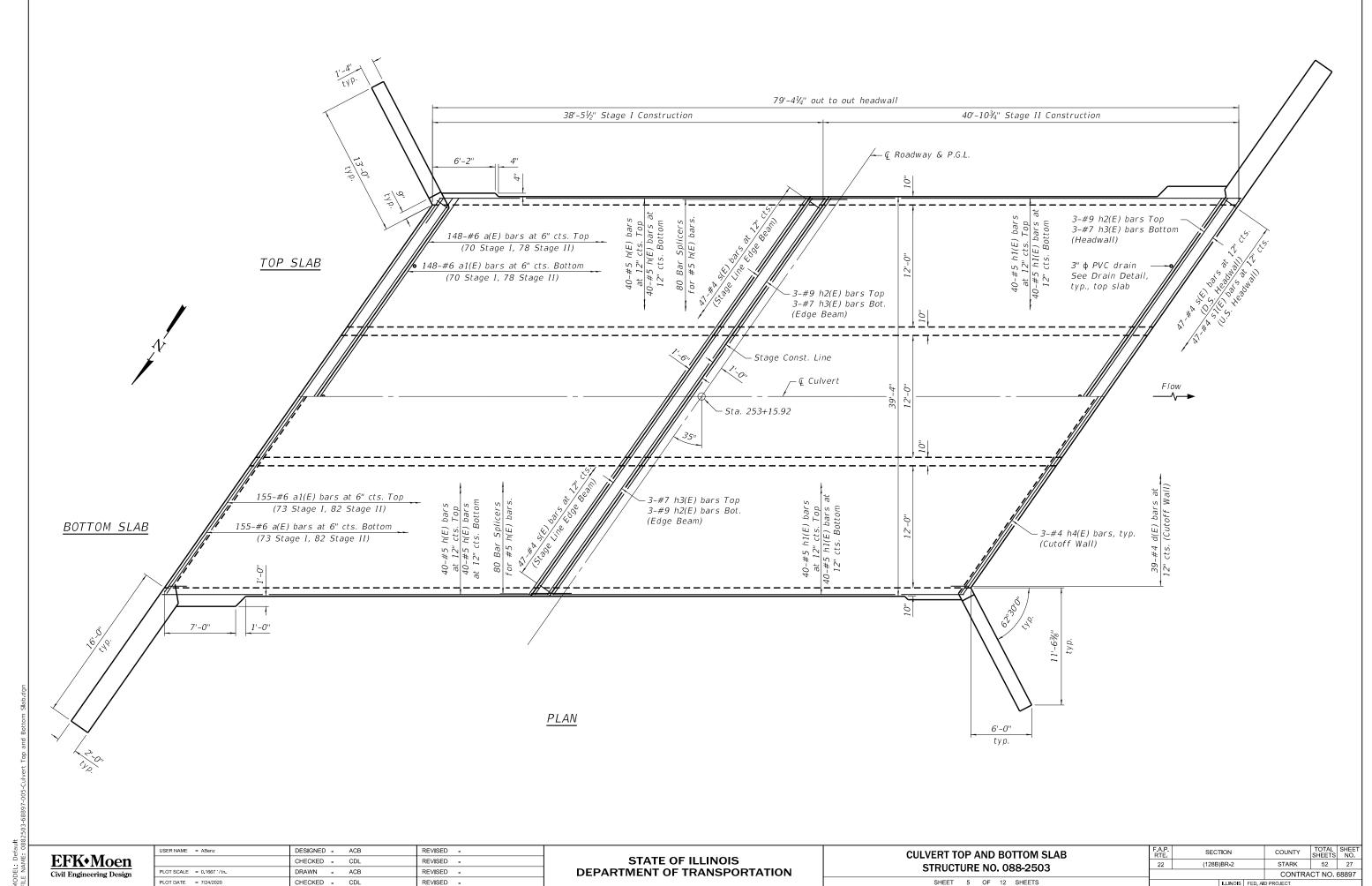
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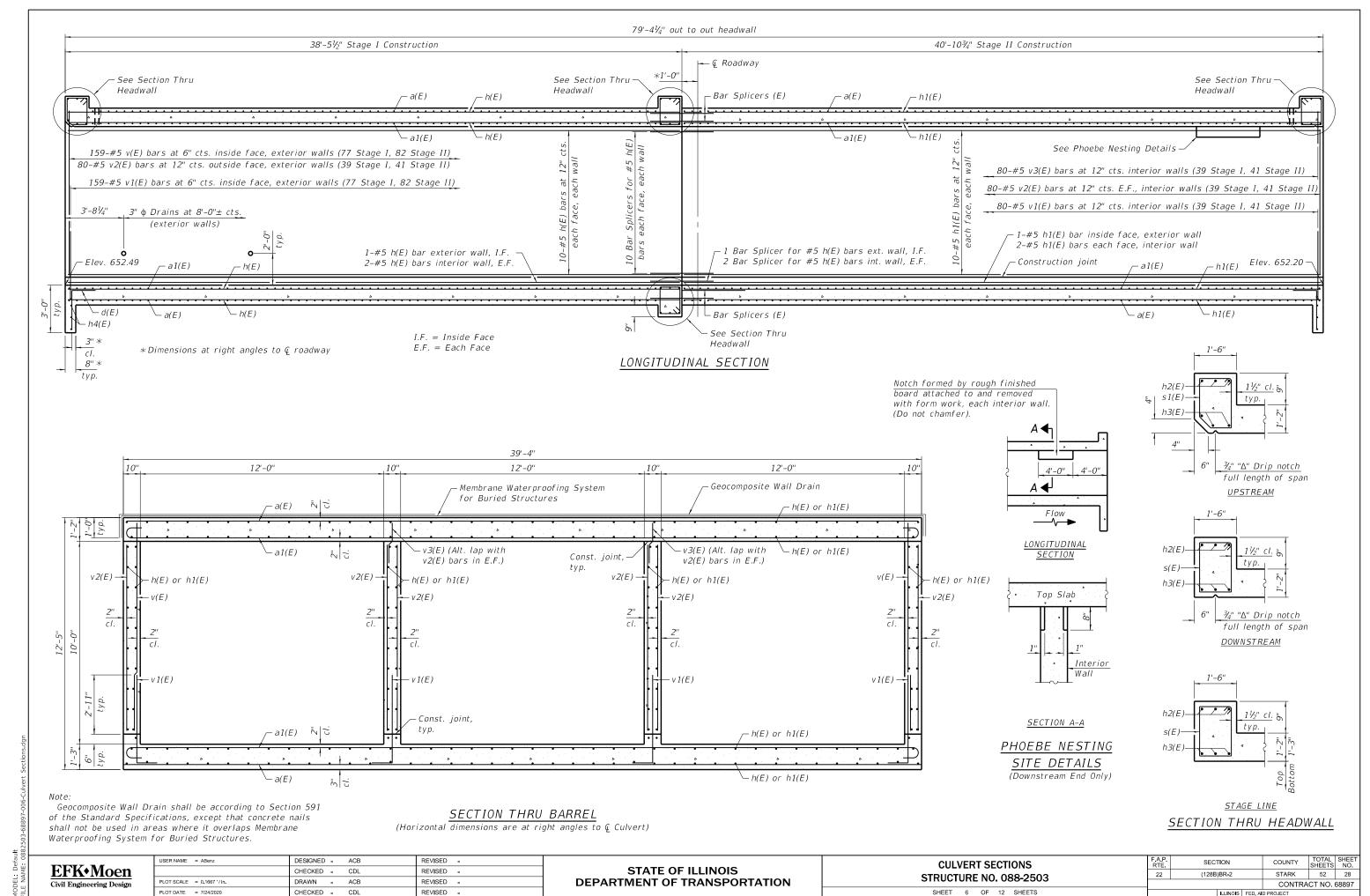
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION **STRUCTURE NO. 088-2503** SHEET 4 OF 12 SHEETS

SECTION COUNTY STARK (128B)BR-2 52 26 CONTRACT NO. 68897

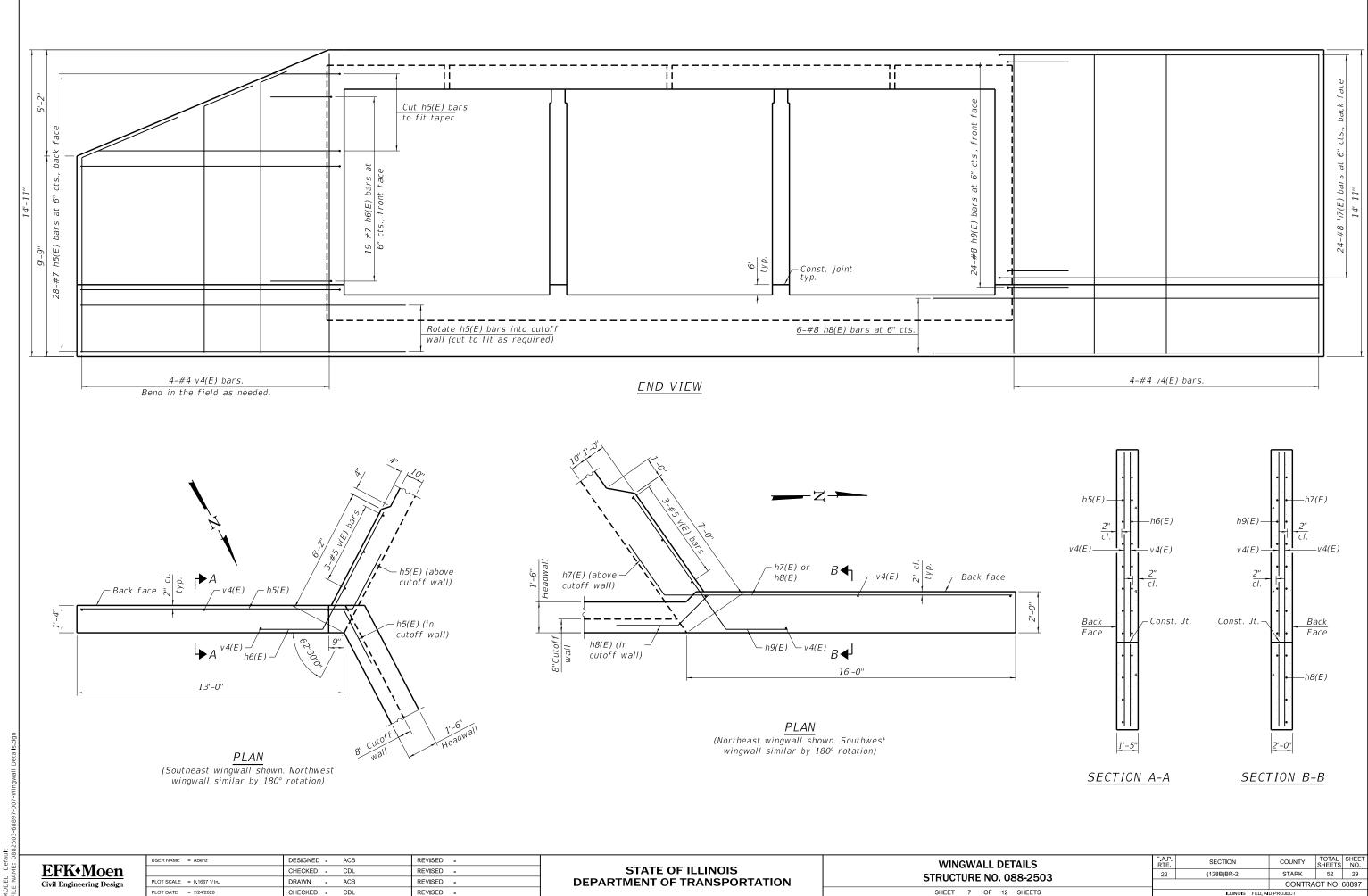
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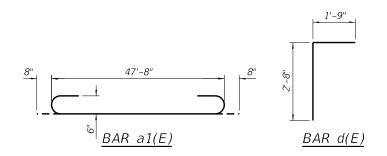


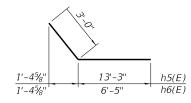
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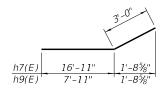


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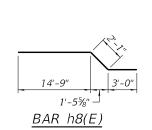


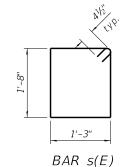


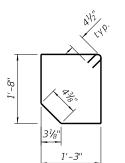


BARS h5(E) & *h6(E)*

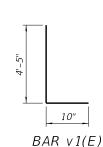
BARS h7(E) & h9(E)

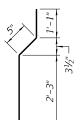






 $BAR \ s1(E)$





BAR v3(E)

BILL OF MATERIAL

a1(E) 303 #6 49'-0" #4 4'-5" 246 #5 246 #5 40'-6" h2(E) 12 #9 47'-8" #7 47'-8" h3(E) 12 h4(E) #4 h5(E) 56 h6(E) 38 #7 16'-3" #7 9'-5" h7(E) 48 #8 19'-11" 19'-10" #8 h8(E) h9(E) 48 #8 10'-11" #4 s1(E) 47 #4 6'-5" v(E) 330 v1(E) 478 #5 #5 v2(E) 480 #5 9'-2" #5 3'-9" v3(E) 160 v4(E) 16 #4 14'-7" Concrete Box Culverts Cu. Yd. Reinforcement Bars, 87,230 Pound Epoxy Coated Permanent Sheet

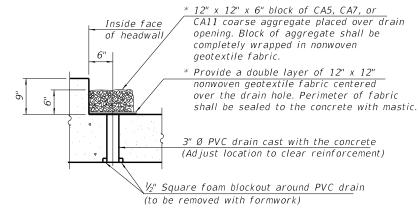
735

Sq. Ft.

Bar No. Size Length Shape

303 #6 47'-8"

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



DRAIN DETAIL

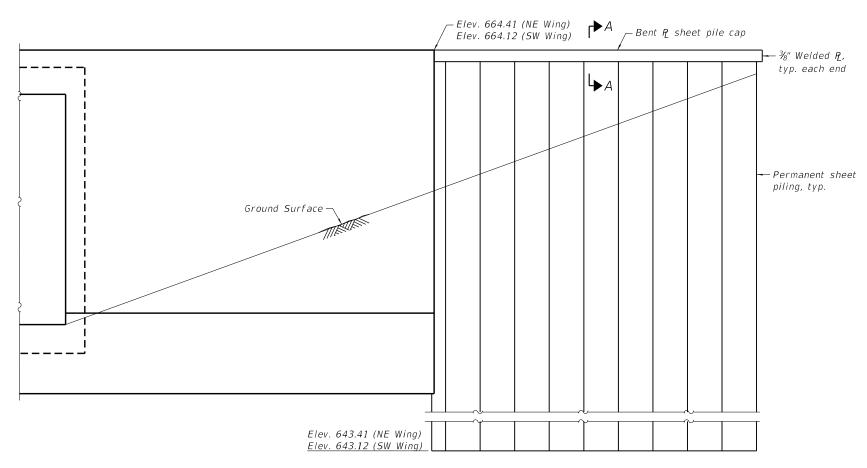
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

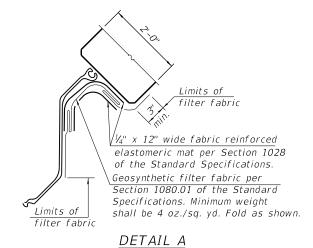
EFK•Moen

USER NAME = ABenz	DESIGNED - ACB	REVISED -	
	CHECKED - CDL	REVISED -	
PLOT SCALE = 0.1667 '/In.	DRAWN - ACB	REVISED -	
PLOT DATE = 7/24/2020	CHECKED - CDL	REVISED -	

CULVERT DETAILS STRUCTURE NO. 088-2503		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
		(128B)BR-2		STARK	52	30
311(00101)L 1(0: 000-2303				CONTRA	CT NO.	68897
SHEET 8 OF 12 SHEETS		ILLINOIS	FED A	PROJECT		

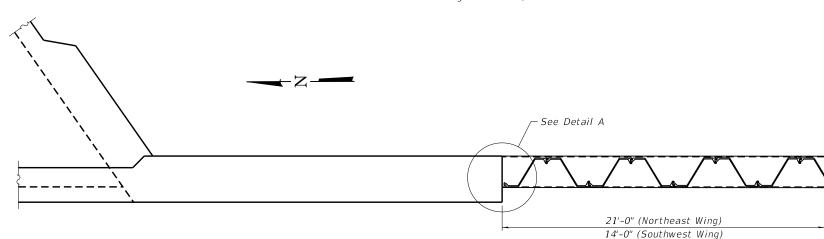
Piling



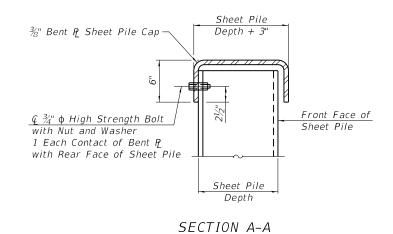


END VIEW

(Southwest wingwall shown. Northeast wingwall similar)



PLAN (Southwest wingwall shown. Northeast wingwall similar by 180° rotation)



Notes: The minimum effective section modulus of the permanent steel sheet pile wall shall be $8.4 \text{ in}^{-3}/\text{ft}$

Sheet piling shall not be driven until the concrete strength has attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.

The cost of furnishing and installing the bent R sheet pile cap, elastomeric mat, and filter fabric shall be included in the cost of Permanent Sheet Piling.

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Civil Engineering Design

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PLOT DATE = 7/24/2020	CHECKED -	CDL	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET PILE WING EXTENSIONS		SEC
STRUCTURE NO. 088-2503		(128
511(00101)L 110: 000-2000		

7/24/2020 10:00:56 AM

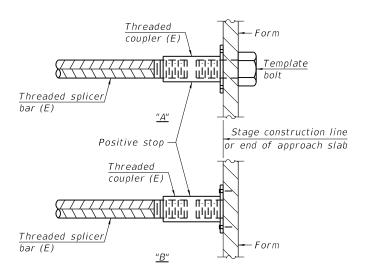
STANDARD BAR SPLICER ASSEMBLY PLAN

(All components shall be provided from one supplier)

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 Iap length
Top Slab	#5	80	3'-7"
Bottom Slab	#5	80	3'-7"
Wall	#5	86	3'-7"

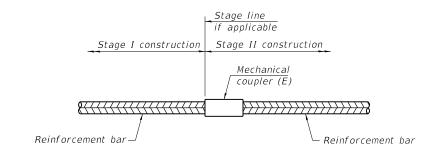


INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.

"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

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

1-1-2020

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Civil Engineering Design

USER NAME = ABenz	DESIGNED -	ACB	REVISED -
	CHECKED -	CDL	REVISED -
PLOT SCALE = 0.1667 '/In.	DRAWN -	ACB	REVISED -
PLOT DATE = 7/24/2020	CHECKED -	CDL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 088-2503

SHEET 10 OF 12 SHEETS

 FA.P. RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEETS
 NO.

 22
 (128B)BR-2
 STARK
 52
 32

 CONTRACT NO. 68897

9/14/2020 7:55:23 AM



Page $\underline{1}$ of $\underline{2}$

Date __11/07/17

ROUTE	FAP 22 (SBI 78)	_ DE	SCR	IPTIOI	N		SN088-0012 Replacement	L	OGGI	ED BY	S	CI
SECTION	(128B)BR		_ ι	OCAT	TION	Northi	ng Easting					
COUNTY	Stark DR	ILLING	MET	THOD		Northi	HSA Easting			Auto	matic	
Station		_	D E P	B L O	U C S	M O I	Surface Water Elev. N/A Stream Bed Elev.		D E P	B L O	U C S	M 0 1
Station	B-1 252+63 6 ft Lt	_	T H	W S	Qu	S T	Groundwater Elev.: First Encounter Upon Completion	ft	H	W S	Qu	S T
Ground Surfa	ALTIC CONCRETE		(ft)	(/6")	(tsf)	(%)	After Hrs.		(ft)	(/6")	(tsf)	(%)
16 inches CON		_665.3	_				SAND: Greenish-gray, fine to coar with fine to coarse chert gravel, A- (continued)	1	_			
4 inches CRUS		663.9 663.6		2			SANDY LOAM: Brownish-gray, fir coarse, with fine to coarse gravel,	644.1 e to	_	4 5 8	2.7 B/20	12
medium stiff, A	, silty clay loam, -7-6(34)	-	_	3	0.8 B/20	25	medium stiff, A-4 SANDY CLAY LOAM: Gray, stiff,	6 <u>42.6</u> A-7	_	- 0		
Dry Unit Weig	ht: 79.1 pcf		-5	ST	0.5 S/7.3	36	,		-25	5 7 10	3.2 B/15	12
FILL: Dark brow	wn, silty clay, soft, A-6	660 <u>.1</u>							_			
				1 2 2	<0.25 P	38	Trace coarse gravel		_	12 7 9		24
							SILTY CLAY: Dark gray, stiff, A-6	637.6				
FILL: Brownish fine to coarse g	-gray, silty loam, with ravel, soft, A-6	<u>656.6</u>	-10	2 2 2	0.7 B/20	22	With shaley clay layers		-30	5 7 7	2.4 S/15	38
Began mud rota	ary at 10 feet.	654.6										
FILL: Dark brownedium stiff, A. Dry Unit Weight			=	ST	1.3	27						
	· 	652.6	_		S/5.3	21	CLAY: Grayish-brown, with green, stiff, slickensided, A-7	633.1	_			
FILL: Brown an soft, with iron s	d gray, silty clay loam, tiaining		_	1	0.4	32	Still, Silckerisided, A-7		_	2 4	1.3	30
SANDY LOAM:	Brown and gray, soft,	650.6	- <u>15</u>	1	B/20	32			- <u>35</u>	4	S/15	30
	rse sand and gravel	-							_			
	orm Unconfined Strength test due to low ry.	647.6	_	ST		24						
with fine to coal Unable to perfo	sh-gray, fine to coarse, rse chert gravel, A-1 orm Unconfined Strength Test. Sample		_	ST		16			_	3 5	1.5 S/10	40
non-cohesive.			-20						-40	5		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page $\underline{2}$ of $\underline{2}$

Date 11/07/17

ROUTE	FAP 22 (SBI 7	(8) DES	CRIPTIO	N		SN088-0012 Replace	ment LC	OGGED BY SCI
SECTION	(128B)	BR	LOCAT	TION _	Northi	ng	Easting	
COUNTY _	Stark	DRILLING N	METHOD		1401111		_ HAMMER TYPE	Automatic
BORING NO.	249+92 to 2 B-1	56+38	D B E L P O	U C S	M 0 1 s	Surface Water Elev. Stream Bed Elev. Groundwater Elev.:		
Offset	252+63 6 ft Lt		H S	Qu (tcf)	T (%)	Upon Completion	ft ft	
	ace Elev. 6		ft) (/6")	(tsf)	(%)	After Hrs.	ft	
	ed, A-7 (continue		_					
		_	2 3 -45 4	1.1 S/10	38			
		- -	_					
Becomes gray	and green	— 615.6	5 10 -50 12	0.8 B/20	21			
Boring termina		613.6	-50 12					
Boring grouted	to ft.	-						
			-55					
		_	_					
			-60					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

EFK•Moen			
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	1	. 12, 141(<u> JCI</u>

USER NAME = ABenz	DESIGNED - ACB	REVISED -
	CHECKED - CDL	REVISED -
PLOT SCALE = 0.1667 '/ In.	DRAWN - ACB	REVISED -
PLOT DATE = 7/24/2020	CHECKED - CDL	REVISED -

SOIL BORING LOGS	F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
TRUCTURE NO. 088-2503	22	(128B)BR-2		STARK	52	33
511(00101) 10: 000-2505				CONTRA	CT NO.	38897
SHEET 11 OF 12 SHEETS		ILLINOIS	FED. A	D PROJECT		

SCI Engine 650 Pierce Boulevard O'Fallon, Illinois 62269	eering, Inc.
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SOIL BORING LOG

Page $\underline{1}$ of $\underline{2}$

Date __11/06/17_

ROUTE	FAP 22 (SBI 78)	DE	SCR	IPTION	<u></u> ا		SN088-0012 Replacer	nent	LOG	GED BY		CI
SECTION	(128B)BR		L	.OCAT	ION							
						Northi	ng	Easting				
COUNTY	Stark DR	ILLING	MET	HOD			HSA	HAMMER TY	PE	Aut	omatic	
STRUCT. NO.	088-0012		D	В	U	М	Surface Water Elev.	N/A 1	ft C	В	U	М
Station	249+92 to 256+38	_	Е	L	С	0	Stream Bed Elev.		ft E	L	С	0
		_	Р	0	S	ı	-		` F	0	s	- 1
BORING NO.	B-2		Т	W		S	Groundwater Elev.:		1	W		S
Station	253+79		Н	S	Qu	T	First Encounter	- 1	ft H	S	Qu	Т
Offset	6 ft Rt						Upon Completion	1	ft			
Ground Surface	ce Elev. 665.6	ft	(ft)	(/6")	(tsf)	(%)	After Hrs.		ft (f	:) (/6")	(tsf)	(%)
18 inches ASPH	ALTIC CONCRETE		_				LOAM: Gray, medium s to coarse chert gravel. A	tiff, with fine				
							(continued)	A-4 (Z)				
		664.1	_	50/5"		1	`			3		
	sphalt, fine to coarse						Trace fine gravel			5	2.8 B/20	13
sand and gravel,	, A-1									6	B/20	
									•			
									_			
		661.6		2	2.5		Gravel becomes fine to	coarse		3	0.7	
FILL: Greenish-g	gray, clay, stiff, A-7			2	3.5 B/20	24				4	2.7 B/20	14
			-5	4	D/20				-	25 6	B/20	
		659.1		1	4.5					3	١	
	n, silty clay loam,			2	1.5 P	21				5	1.4 B/20	14
medium stiff, A-7	7-6 (26)			3						6	B/20	
									637.6			
	ples from 6-7.5 feet						CLAY: Gray, trace fine s					
	et were combined to limit and plasticity			2			medium stiff, with shale	y layering A-7		3		
index.	шти апи ріазиску			2	>4.5 P	18				4	1.1 S/15	29
Becomes greeer	nish-gray		-10	4					-	30 7	3/13	
				1								
Becomes soft				2	0.5 P	26						
				3	F							
										2	1.2	
Shelby tube pus	hed from 13 to 15									3	1.2 S/15	38
feet. No sample		650.6	-15							35 4	5/15	
	edium stiff, with fine								_			
to coarse chert g				ST	<0.25	16			_			
Unable to perfor					Р	01			_	_]		
compressive str sample recovery	ength test due to low											
sample recovery	/ .								_			
				2						2	١	
				3	1.2 B/20	15	Becomes dark gray, trad	ce organics		2	1.1 S/15	22
			-20	5	B/20				625.6 -	10 3	5/15	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page $\underline{2}$ of $\underline{2}$

Date 11/06/17

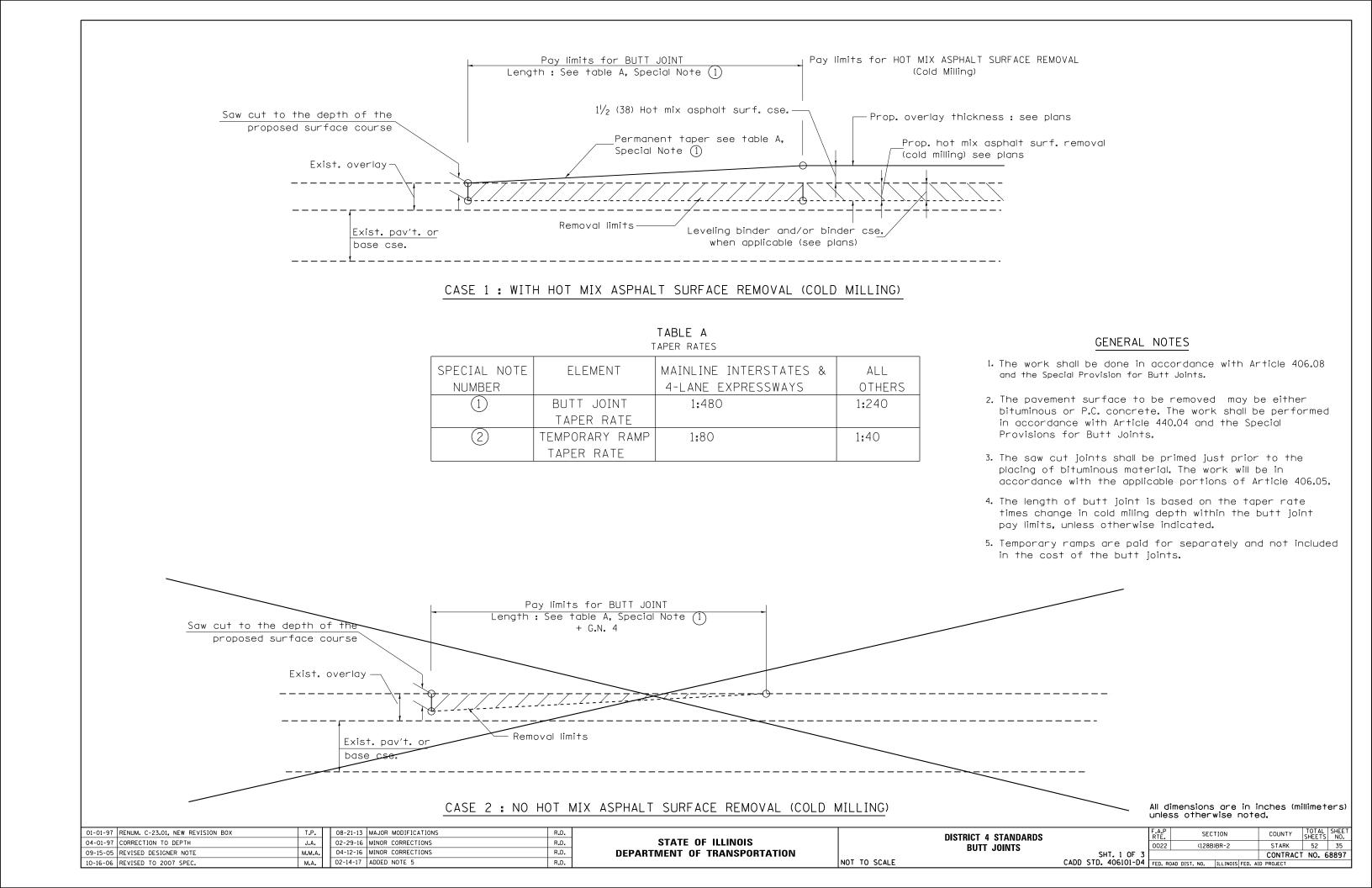
=										Date	11/06/
ROUTE	FAP 22 (SBI 78)	DE	SCR	RIPTIO	N		SN088-0012 Replace	ment	LO	GGED BY	SCI
SECTION	(128B)BR		ι	OCAT	ION _						
						Northi	ng	Easting			
COUNTY	Stark DR	ILLING	MET	THOD			HSA	HAMMER	TYPE _	Autor	natic
STRUCT. NO.	088-0012		D	В	U	М	Surface Water Elev.	N/A	ft		
Station	249+92 to 256+38		E	L	C S	0	Stream Bed Elev.				
BOBING NO	B-2		T	w	3	s	Groundwater Elev.:				
Station	253+79	_	Н	S	Qu	Т			ft		
Offset	6 ft Rt	_					Upon Completion		ft		
	ice Elev. 665.6	ft	(ft)	(/6")	(tsf)	(%)	After Hrs.	_	ft		
	ay, trace fine sand										
seams, medium	stiff, with shaley		_								
layering, trace o (Continued)	organics A-7										
Continuca											
			-								
			-	9							
				10	>4.5 P	19					
			-45	32	Р						
Nith fine to coa	rse gravel layer										
			-								
		618.1									
	race coarse gravel,										
A-7 Sample receive	red was not in tact, so										
moisture conter				50/4"		16					
	due to drilling mud.										
		615.6	-50								
Boring terminate	ed at 50.0 ft.										
Boring grouted t	to 50 ft.										
			-55								
			-55								
			_								
			-60								

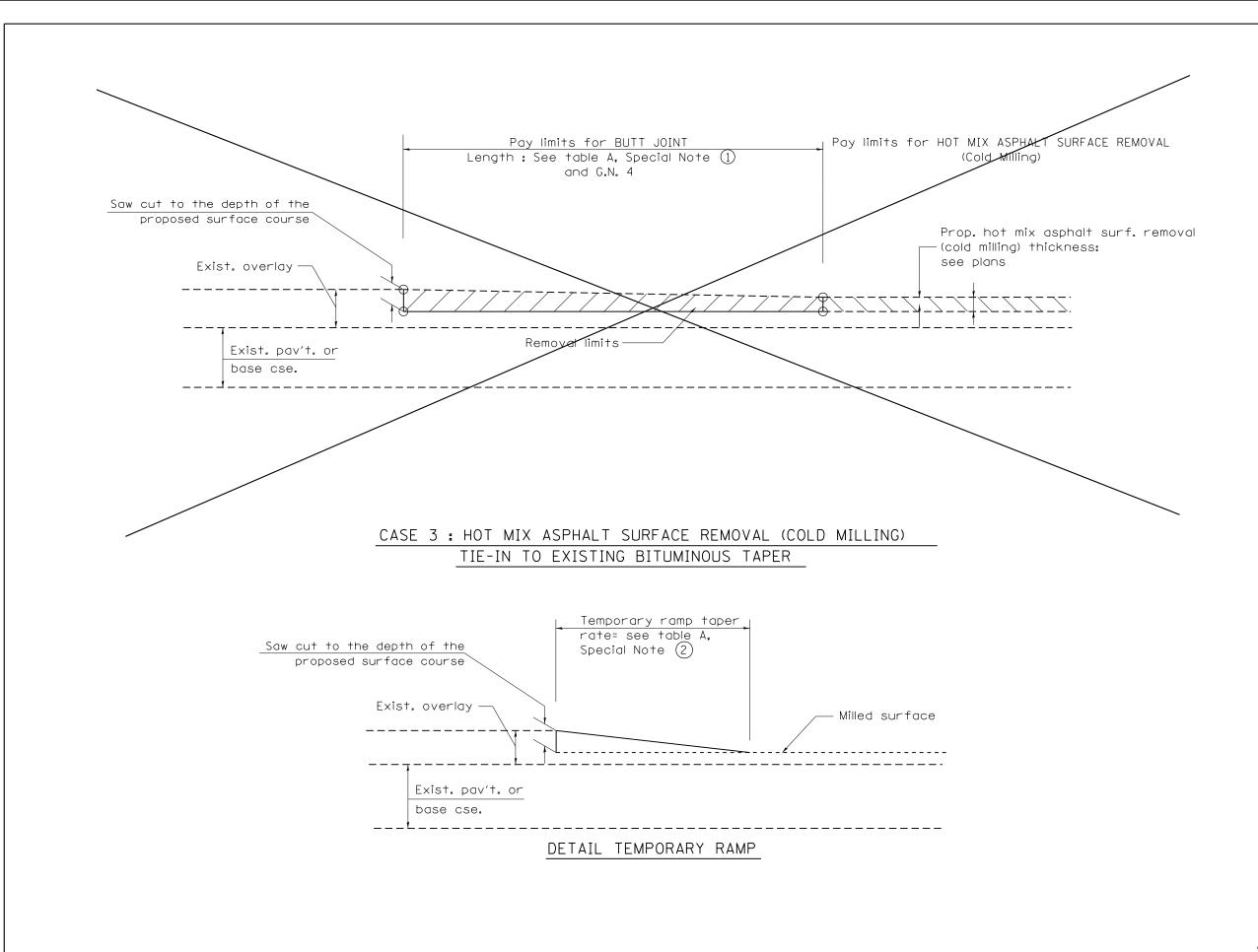
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

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T/1 17,1/1	<u>UCII</u>
Civil Engineering	Design

USER NAME = ABenz	DESIGNED -	ACB	REVISED -
	CHECKED -	CDL	REVISED -
PLOT SCALE = 0.1667 / In.	DRAWN -	ACB	REVISED -
PLOT DATE = 7/24/2020	CHECKED -	CDL	REVISED -

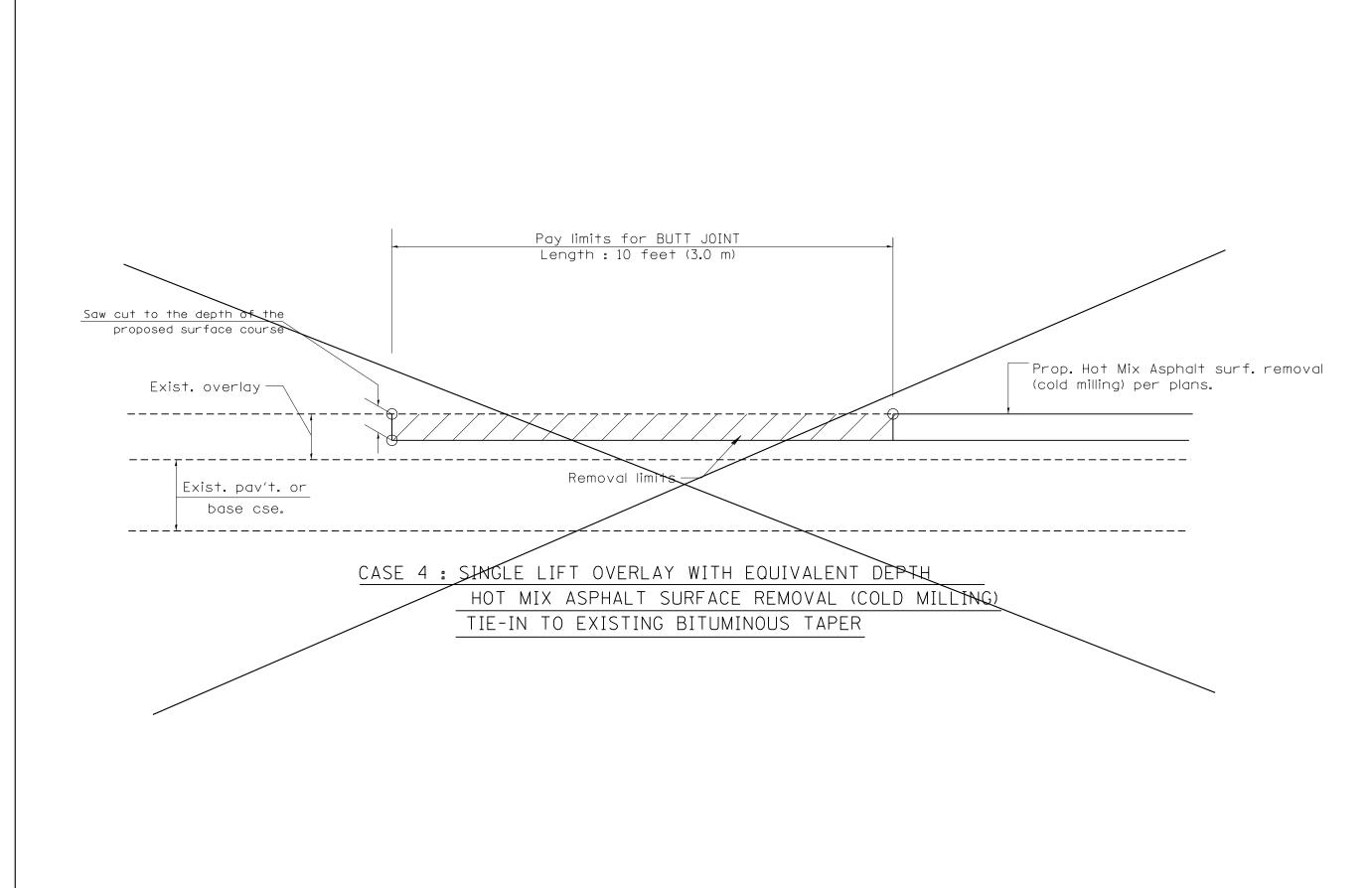
SOIL BORING LOGS		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 088-2503	22	(128B)BR-2		STARK	52	34
711001011L 1101 000-2303		CONTRACT NO. 688				
SHEET 12 OF 12 SHEETS	ILLINOIS FED. AID PROJECT					
·						



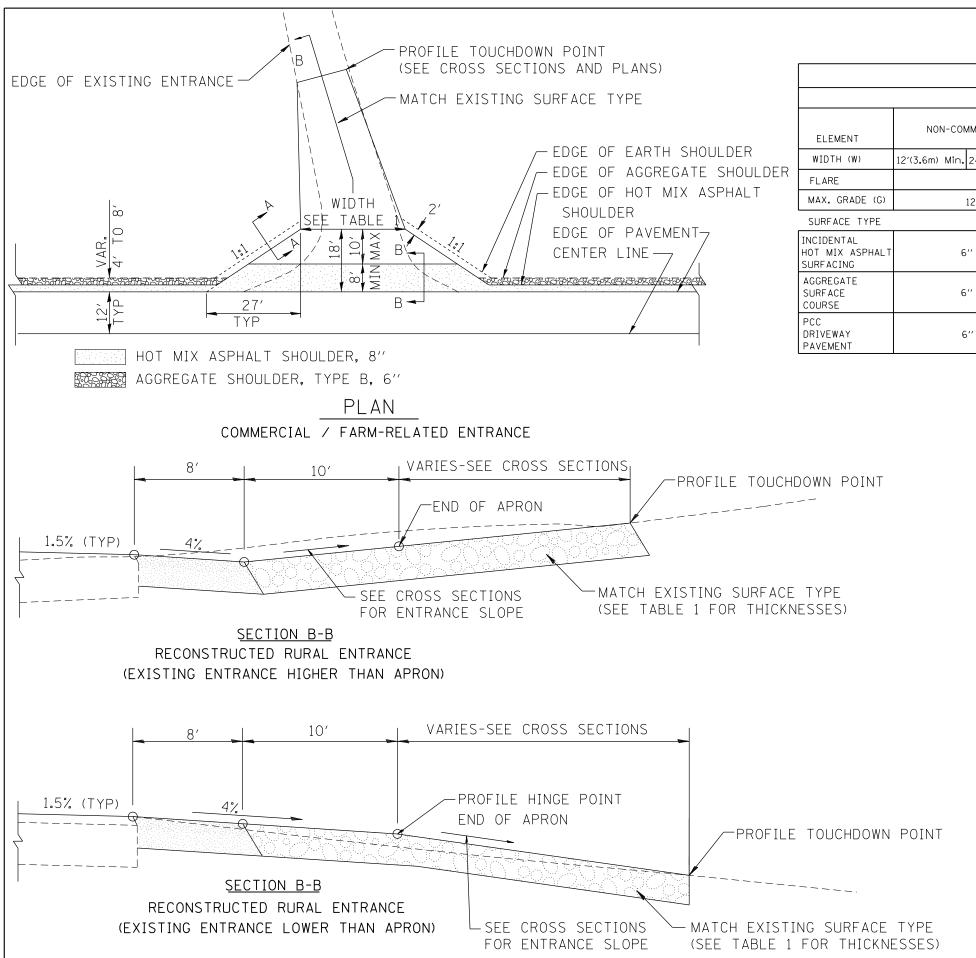


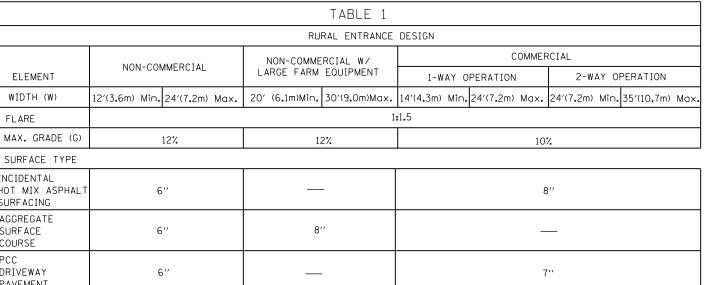
All dimensions are in inches (millimeters) unless otherwise noted.

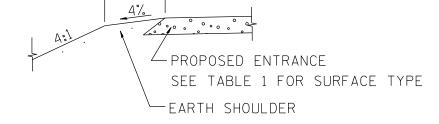
		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 4 STANDARDS		F.A.P RTE.	SECTION	COUNTY	SHEETS S	SHEET NO.
-			BUTT JOINTS		0022	(128B)BR-2	STARK	52	36
			2011 0011110	SHT. 2 OF 3			CONTRAC	CT NO. 68	8897
			NOT TO SCALE	CADD STD. 406101-D4	FED. ROAD D	IST. NO. ILLINOIS FE	ED. AID PROJECT		



		STATE OF ILLINOIS	DISTRICT 4 STANDARDS		RTE.	SECTION	COUNTY STARK	TOTAL SHEET SHEETS NO.
		DEPARTMENT OF TRANSPORTATION	BUTT JOINTS NOT TO SCALE	SHT. 3 OF 3 CADD STD. 406101-D4	0022	20D/BR-2		T NO. 68897





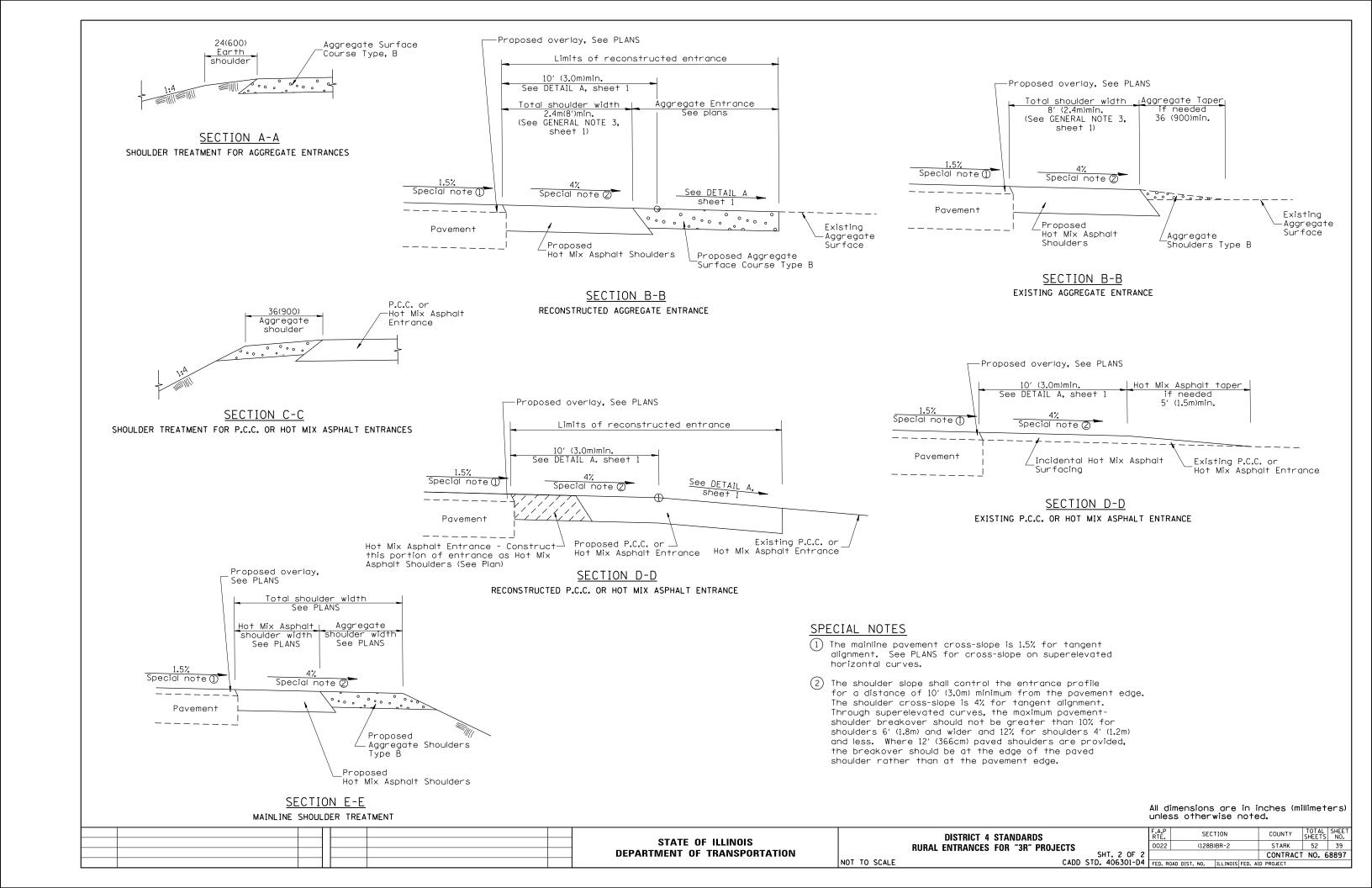


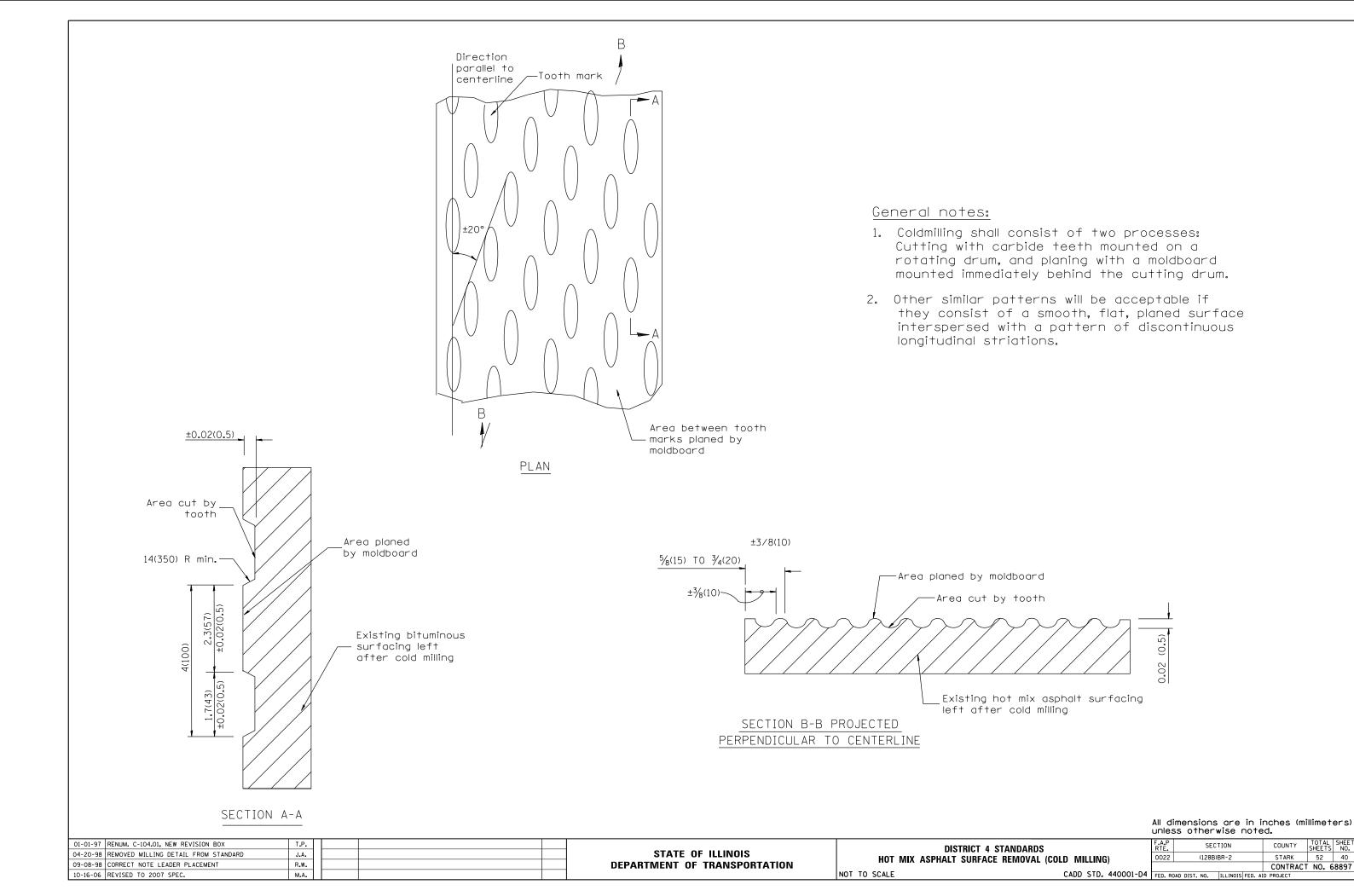
SHOULDER TREATMENT FOR RURAL ENTRANCES

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.

01-	-01-97	RENUM. C-103.06, NEW REVISION BOX	P.	10-16-06 REVISED TO 2007 SPEC.	M.A.			DISTRICT 4 STANDARDS		RTF.	SECTION	COUNTY	SHEETS	SHEET NO.
07-	-01-97	REVISE DESIGNER NOTES J.	Δ.	9-15-15 UPDATED TABLE 1	R.D.	STATE OF ILLINOIS		RURAL ENTRANCES FOR "3R" PROJECTS		0022	(128B)BR-2	STARK	52	38
01-	-17-03	ADJUST DESIGN, CHANGE ENTRANCE JA	TR	2-29-16 MINOR CORRECTIONS	R.D.	DEPARTMENT OF TRANSPORTATION			SHT. 1 OF 2			CONTRAC	T NO. 6	8897
09-	-15-05	RADIUS FOR FLARE M.M.	1.A.	5-9-17 CHANGED TAPER RATE	R.D.		NOT TO SCALE	CAD	D STD. 406301-D4	FED. ROAD	DIST. NO. ILLINOIS FE	D. AID PROJECT		

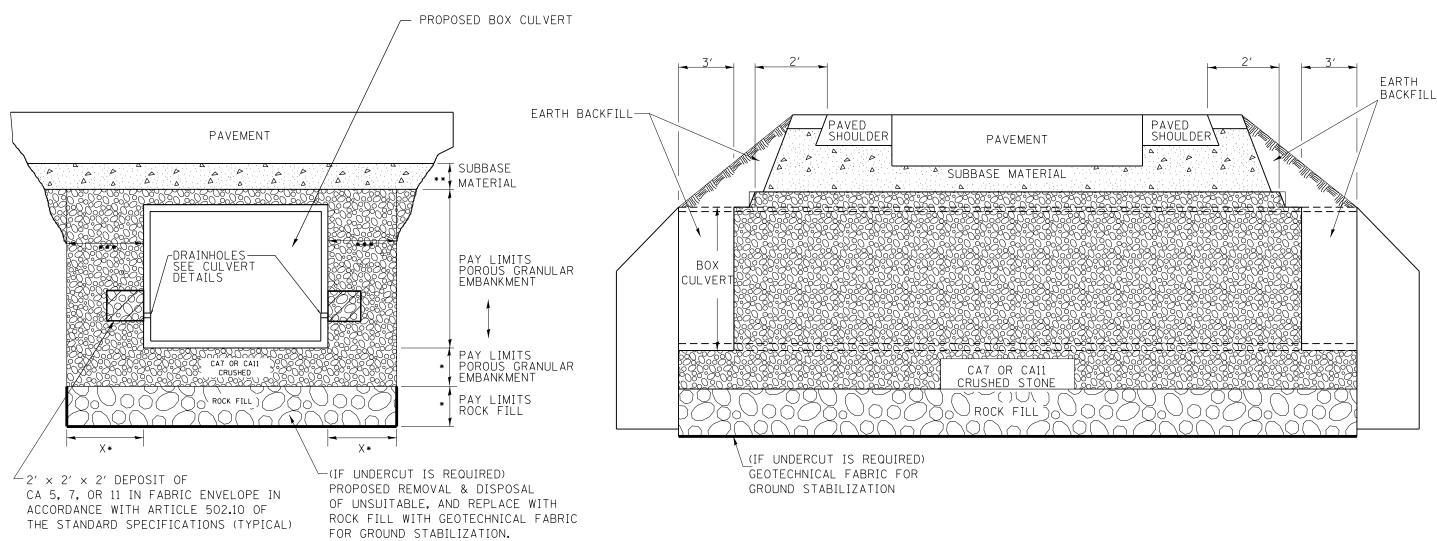




DESIGNER



ROADWAY CROSS SECTION VIFW



* IF APPLICABLE, SEE UNDERCUT DETAIL FOR DEPTHS AND WIDTHS. IF THERE IS NO UNDERCUT, X = 2 FEET AND SEE NOTE 3 THIS SHEET.

PAID FOR BY RESPECTIVE PAY ITEMS.

- ** SUBBASE SHALL BE 6" MINIMUM LAYER OF CA6 CRUSHED STONE OR OTHER MATERIAL AS SPECIFIED IN THE PLANS.
- *** PAY LIMITS OF POROUS GRANULAR EMBARKMENT SHALL BE 2 FEET UNLESS OTHERWISE SHOWN IN THE PLANS.

NOTES:

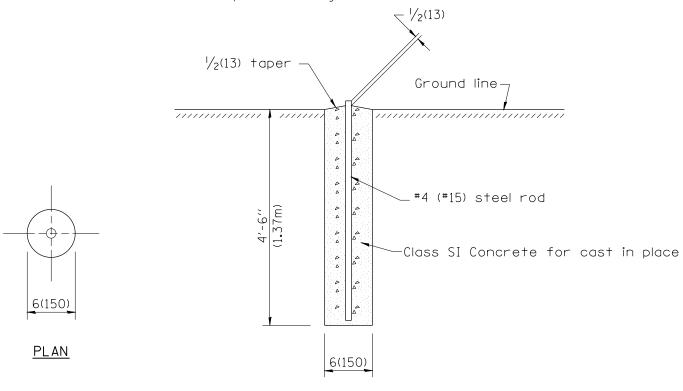
- EXCEPT AS SPECIFIED IN THIS DETAIL, THE PLACEMENT AND COMPACTION OF BACKFILL SHALL BE IN ACCORDANCE WITH ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS.
- POROUS GRANULAR EMBARKMENT SHALL BE PLACED IN ACCORDANCE WITH SECTION 207 OF THE STANDARD SPECIFICATIONS. 2.
- IF NO UNDERCUT IS REQUIRED, A 6" MINIMUM LAYER OF POROUS GRANULAR EMBANKMENT SHALL BE PLACED BELOW THE ELEVATION OF THE BOTTOM OF BOX CULVERT.

	6-12-12	CREATED NEW STD.	R.D.		DISTRICT 4 STANDARDS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
5 L				STATE OF ILLINOIS	DETAIL OF EXCAVATION AND BACKFILL FOR BOX CULVERTS	0022	(128B)BR-2	STARK	52 41
⊢				DEPARTMENT OF TRANSPORTATION	NOT TO SCALE CADD STD. 540000-D4	EED BOAD DIS	T NO THE INDISPED AT	CONTRACT NO. 6889	

TYPICAL APPLICATION

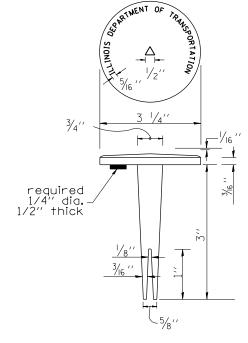
GENERAL NOTES

- 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



SECTION

PERMANENT SURVEY MARKERS



Ground surface

5′ min (1.5m)

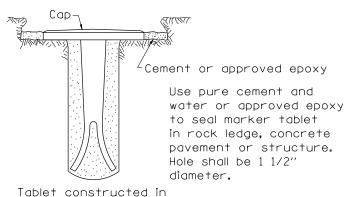
BRASS TABLET

10′′

¢oncrete

>///////

−1¹/2′′



rock ledge or concrete.

TYPE I

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 $\frac{3}{4}$ (19) and a thickness of $\frac{1}{4}$ (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

DISTRICT 4 STANDARDS
PERMANENT SURVEY TIE &
PERMANENT SURVEY MARKERS TY.I – TY.II
CADD STD. 667101-D4

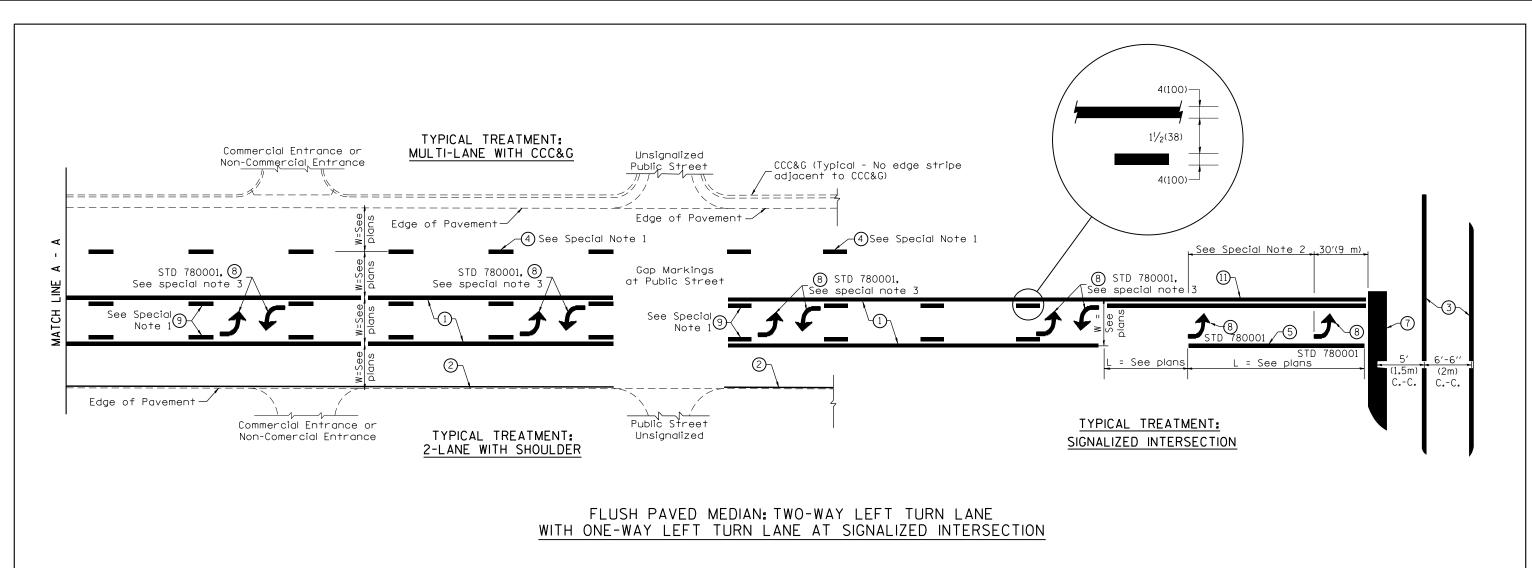
14					T	CONTRACT	NO. 6	8897
	0022	(128B)	Т	STARK	52	42		
	F.A.P RTE.	SEC.	TION			COUNTY	TOTAL SHEETS	SHEET NO.

<u>TYPE II</u> CAST-IN-PLACE MARKER

NOT TO SCALE







TYPICAL PAVEMENT MARKING LEGEND

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

- 4(100) Solid (Yellow)
- 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.)
- 6(150) Skip-Dash (White) (See Special Note 1)
- 8(200) Solid (White)

01-01-97 RENUM. F-8.03, NEW REVISION BOX

10-97 CORRECT BI DIRECTIONAL DIMENSION

02-07-97 ADD BI DIRECTIONAL DIMENSION

08-02 ADD CROSSWALK DMNS. WITH T.S.

- 12(300) Diagonal (White) (Item 🜀 is shown on Std. 780001
- 24(600) Stop Bar (White)
- Letters & Arrows (See Std. 780001 and Special Notes 2 & 3)
- 4(100) Skip-Dash (Yellow) (See Special Note 1)

10-16-06 REVISED TO 2007 SPEC.

2/29/16 ADDED GROOVING AREAS

12(300) Diagonal (Yellow) (See Table A) 4(100) Double Solid (Yellow) See Table A

11(280) C.-C

T.P.

J.A.

J.A.

M.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.
 - 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. The maximum spacing between arrow pairs
 - is 200' (61 m). Arrow pairs shall be evenly spaced if three (3) or more are required.
 - The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

- 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 $1^{\prime\prime}$ 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)

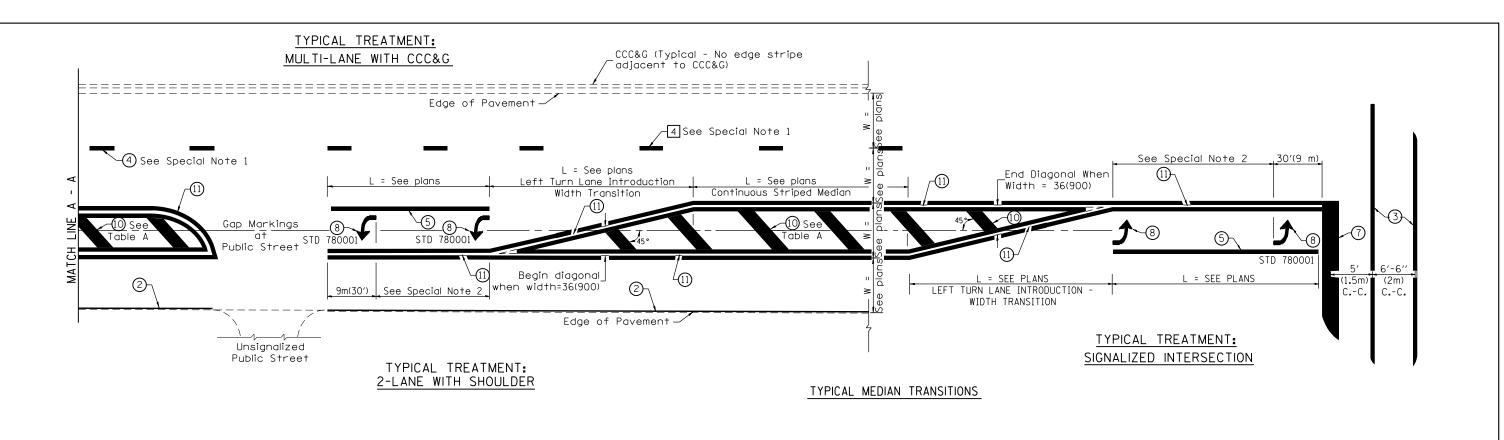
STATE	: OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

R.D.

DISTRICT 4 STANDARDS TYPICAL PAVEMENT MARKINGS

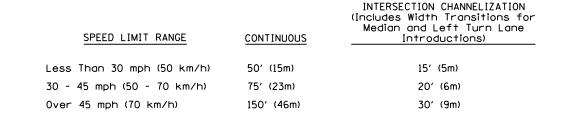
SECTION COUNTY 0022 (128B)BR-2 STARK 52 43 SHT. 1 OF 2 CADD STD. 780001-D4 FED. ROAD DIST. NO. CONTRACT NO. 68897

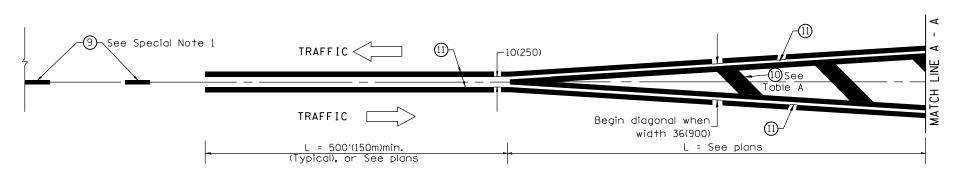
NOT TO SCALE



FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A RECOMMENDED SPACING BETWEEN DIAGONAL LINES





MEDIAN INTRODUCTION - WIDTH TRANSITIONS

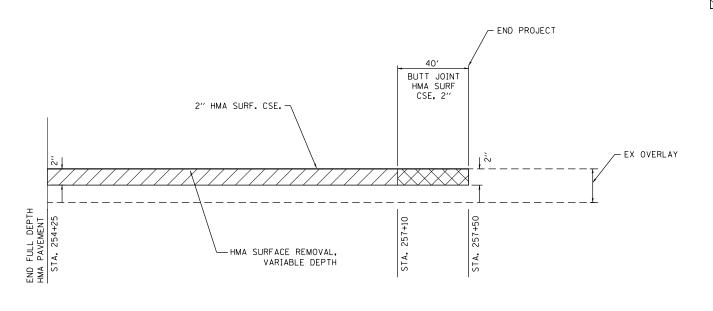
			STATE OF ILLINOIS		DISTRICT 4 STANDARDS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEET	L SHEE
-					TYPICAL PAVEMENT MARKINGS	0022	(128B)BR-2	STARK	52	44
			DEPARTMENT OF TRANSPORTATION		SHT. 2 ()F 2		CONTRA	CT NO.	68897
				NOT TO SCALE	CADD STD. 78000	I-D4 FED. ROAD	DIST. NO. ILLIN	IOIS FED. AID PROJECT		

HMA PAVEMENT THICKNESS TAPER DETAIL - NORTH OF BRIDGE

NOT TO SCALE

LEGEND

HMA SURFACE REMOVAL BUTT JOINT HMA SURFACE REMOVAL, VARIABLE DEPTH



HMA PAVEMENT THICKNESS TAPER DETAIL - SOUTH OF BRIDGE

NOT TO SCALE

P\2		
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NAME:	ASSOCIATES	
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Ē	ILLINOIS DESIGN FIRM LICENSE NO 184 001115	Pl

USER NAME = stephanie.lee	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 8/7/2020	DATE -	REVISED -

	F.A.P. SECTION										
	0022	(128B)BR-2								
SCALE: 1" = 50	SHEET	1	OF	1	SHEETS	STA.	TO STA.			ILLINOIS	FED. A

COUNTY SHEETS NO.

STARK 52 45 CONTRACT NO. 68897

