

01-21-2022 LETTING ITEM 001

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. LET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	1
ILLINOIS CONTRACT NO. 62D49				

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED  
WITHIN THE VILLAGE OF CRETE

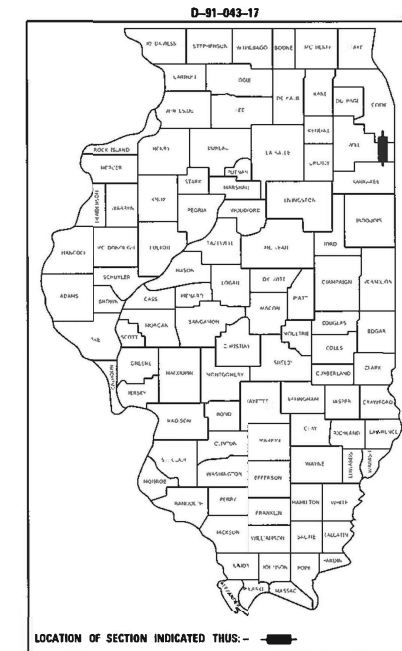
TRAFFIC DATA

IL ROUTE 1:  
FUNCTIONAL CLASSIFICATION  
OTHER PRINCIPAL ARTERIAL  
ADT (2017) = 11,300  
P.V. = 96% S.U. = 3% M.U. = 1%  
POSTED SPEED LIMIT = 30 MPH

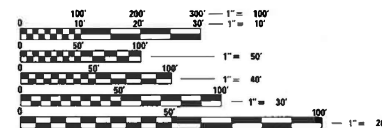
PROPOSED  
HIGHWAY PLANS

FAP ROUTE 876 (IL ROUTE 1) OVER DEER CREEK  
SECTION: 10WB-B  
PROJECT: NHPP-UGDG(771)  
BRIDGE REPLACEMENT WITH 2-CELL BOX CULVERT  
WILL COUNTY

C-91-043-17



LOCATION MAP  
(NOT TO SCALE)



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  
1-800-492-4123  
OR 811

PROJECT MANAGER: J. ALAIN MIDY, P.E. (847) 221-3056  
PROJECT ENGINEER: PRAVEEN KAINI, P.E. (847) 705-4237

GROSS LENGTH = 400 FT. = 0.076 MILE  
NET LENGTH = 400 FT. = 0.076 MILE



Date Signed: 11-17-20  
Expires: 11-30-21

CHASTAIN & ASSOCIATES LLC  
CONSULTING ENGINEERS  
SERVICE | SOLUTIONS | COMMITMENT

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 18, 2021

Open Praveen Kaini REGIONAL ENGINEER

December 10, 2021

[Signature] ENGINEER OF DESIGN AND SUPERVISION

December 10, 2021

[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

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**HIGHWAY STANDARDS**

STANDARD NO.	DESCRIPTION
000001-08	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
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602001-02	CATCH BASIN TYPE A
602301-04	INLET - TYPE A
602401-07	PRECAST MANHOLE TYPE A 4' (1.22 m) DIAMETER
602402-03	PRECAST MANHOLE TYPE A 5' (1.52 m) DIAMETER
602406-11	PRECAST MANHOLE TYPE A 6' (1.83 m) DIAMETER
604001-05	FRAME AND LIDS TYPE 1
604006-05	FRAME AND GRATE TYPE 3
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-12	STEEL PLATE BEAM GUARDRAIL
630101-10	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
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

**HIGHWAY STANDARDS (CONT'D)**

701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

**DISTRICT ONE DETAILS**

BD-01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER ≥ 15'
BD-51	BENCHING DETAIL FOR EMBANKMENT WIDENING
TC-11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-21	DETOUR SIGNING FOR CLOSING STATE HIGHWAYS

**GENERAL NOTES**

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOURS NOTIFICATION REQUIRED)
- NO CONSTRUCTION SHALL BEGIN UNTIL ALL PROPER TEMPORARY SIGNS AND BARRICADES HAVE BEEN INSTALLED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND WILL COUNTY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.
- THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND ALL TREES WITHIN THE CONSTRUCTION AREA TO ESTABLISH A "TREE PROTECTION ZONE" AND AROUND EXISTING WETLANDS TO ESTABLISH A "WETLAND PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOB SITE, NO WORK IS TO BE PERFORMED (OTHER THAN ROOT PRUNING), MATERIALS STORED OR VEHICLES DRIVEN OR PARKED WITHIN THE "TREE PROTECTION ZONE" AND "WETLAND PROTECTION ZONE". REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS SEEN COMPLETED.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
- THE CONTRACTOR SHALL CHECK ALL ESC MEASURES WEEKLY AND AFTER EACH RAINFALL. 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOW MELT.
- ALL ESC MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION.
- SILT FENCE SHOULD ONLY BE USED AS "PEB" IN AREAS WHERE THE WORK AREA IS HIGHER THAN THE PERIMETER. THE USE OF SILT FENCE AT THE TOP OF THE SLOPE/ELEVATIONS HIGHER THAN THE WORK AREA SHOULD ALWAYS BE AVOIDED. TEMPORARY FENCE SHOULD BE UTILIZED IN THESE LOCATIONS (WHERE THE TOP OF SLOPE/ELEVATION IS HIGHER THAN THE WORK AREA) IN PLACE OF SILT FENCE.

- WHERE NEW WORK MEETS EXISTING FEATURES TO REMAIN. FIELD CHECK ALL DIMENSIONS AND ELEVATIONS BEFORE PROCEEDING WITH CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- THE CONTRACTOR IS RESPONSIBLE FOR RETURNING ALL AREAS AFFECTED BY EQUIPMENT OR LABORERS TO EXISTING CONDITIONS. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROTECTING ALL NEW WORK UNTIL COMPLETION OF THIS CONTRACT.
- ALL EXCESS MATERIAL (BROKEN CONCRETE, CULVERT PIPE, WASTE ROADWAY EXCAVATION, SURPLUS MATERIAL FROM SEWER TRENCHES, ETC.) SHALL BE LEGALLY DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO SELECT DUMP SITES AND OBTAIN PERMISSION AND ALL NECESSARY PERMITS TO USE SUCH DUMP SITES.
- THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW WASTE USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS, IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR SHALL SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G. 1 AND 2 OF THE SWPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR SHALL TAKE EXTRA CARE IN GRADING AND EXCAVATING NEAR TREES WHICH ARE NOT MARKED FOR REMOVAL SO AS NOT TO CAUSE INJURY TO THE ROOT SYSTEM OR TRUNKS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR.
- THE ENGINEER SHALL CONTACT ERIC CAMPOS, IDOT'S AREA TRAFFIC FIELD ENGINEER FOR WILL COUNTY, VIA EMAIL AT ERIC.CAMPOS@ILLINOIS.GOV AND/OR AT (815) 485-6475, A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS- RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" INCLUDED IN THE PLANS.
- DE-ENERGIZING COMED'S DISTRIBUTION LINES (12 KV) MAY BE NECESSARY IN ORDER TO ACCOMMODATE THE CONTRACTOR'S EQUIPMENT. CALL 1-800-EDISON1.
- THE CONTRACTOR SHALL CONTACT THE D1 TRAFFIC CONTROL SUPERVISOR VIA E-MAIL AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HRS BEFORE BEGINNING WORK.
- ALL SIGNS MUST BE UP AT LEAST 2 WEEKS BEFORE THE SCHEDULED CLOSURE DATE. NOTIFY WILL COUNTY DIVISION OF TRANSPORTATION 48 HOURS BEFORE CLOSURE VIA E-MAIL AT HIGHWAYS@WILLCOUNTYILLINOIS.COM AND/OR (815)727-8476.
- OVERSIZE / OVERWEIGHT LOADS WILL NEED TO CONTACT WILL COUNTY DIVISION OF TRANSPORTATION AND OBTAIN PERMITS TO USE ANY WILL COUNTY HIGHWAYS VIA E-MAIL AT HIGHWAYS@WILLCOUNTYILLINOIS.COM AND/OR (815)727-8476. ANY PERMITS OBTAINED FROM OTHER AGENCIES WILL NOT COVER THE USE OF ROAD UNDER WCDOT JURISDICTION.
- THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
- AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED, AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
- ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENT IS TO BE REMOVED AND REPLACED AS DIRECT BY THE ENGINEER AT CONTRACTOR EXPENSE.
- CONTACT THE IDOT ROADSIDE DEVELOPMENT UNIT AT 847-705-4171 AT LEAST 2 WEEKS PRIOR TO BEGINNING LANDSCAPE AND FORESTRY WORK.

**COMMITMENTS:**

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

- TREE REMOVAL HAS BEEN IDENTIFIED AS PART OF THIS PROJECT. TREE REMOVAL RESTRICTION SHALL BE IMPOSED BETWEEN APRIL 1 AND SEPTEMBER 30.

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PLOT DATE = 10/18/2021	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 1 OVER DEER CREEK**  
**INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	2
CONTRACT NO. 62D49				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION TYPE CODE		
				80% FED 20% STATE	80% FED 20% STATE	100% LOCAL
				ROADWAY 0004	BOX CULVERT 0010	UTILITY 0043
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	39	39		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	66	66		
20200100	EARTH EXCAVATION	CU YD	4	4		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	84	84		
20400800	FURNISHED EXCAVATION	CU YD	112	112		
20700220	POROUS GRANULAR EMBANKMENT	CU YD	160		160	
20800150	TRENCH BACKFILL	CU YD	165	165		
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	1217	1217		
25000210	SEEDING, CLASS 2A	ACRE	0.07	0.07		
25000310	SEEDING, CLASS 4	ACRE	0.11	0.11		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23	23		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23	23		
25000750	MOWING	ACRE	0.08	0.08		
25003310	INTERSEEDING, CLASS 4	ACRE	0.08	0.08		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION TYPE CODE		
				80% FED 20% STATE	80% FED 20% STATE	100% LOCAL
				ROADWAY 0004	BOX CULVERT 0010	UTILITY 0043
25100630	EROSION CONTROL BLANKET	SQ YD	1217	1217		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	26	26		
28000400	PERIMETER EROSION BARRIER	FOOT	784	784		
28000500	INLET AND PIPE PROTECTION	EACH	13	13		
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	1217	1217		
28100107	STONE RIPRAP, CLASS A4	SQ YD	207	207		
28200200	FILTER FABRIC	SQ YD	207	207		
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	10	10		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1147	1147		
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	318	318		
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	73	73		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2160	2160		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1080	1080		
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	27	27		

\*SPECIALTY ITEM

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PLOT DATE = 10/18/2021	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 1 OVER DEER CREEK  
SUMMARY OF QUANTITIES**

SCALE: SHEET 1 OF 4 SHEETS STA. TO STA.


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	3
			CONTRACT NO. 62D49	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION TYPE CODE		
				80% FED 20% STATE	80% FED 20% STATE	100% LOCAL
				ROADWAY 0004	BOX CULVERT 0010	UTILITY 0043
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	9	9		
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	72	72		
40701896	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10 3/4"	SQ YD	960	960		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	3218	3218		
44000100	PAVEMENT REMOVAL	SQ YD	856	856		
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	73	73		
44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SQ YD	640	640		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	828	828		
44000600	SIDEWALK REMOVAL	SQ FT	830	830		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1	
50200100	STRUCTURE EXCAVATION	CU YD	592		592	
50800105	REINFORCEMENT BARS	POUND	47090		47090	
50900805	PEDESTRIAN RAILING	FOOT	132	132		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION TYPE CODE		
				80% FED 20% STATE	80% FED 20% STATE	100% LOCAL
				ROADWAY 0004	BOX CULVERT 0010	UTILITY 0043
51500100	NAME PLATES	EACH	1		1	
54003000	CONCRETE BOX CULVERTS	CU YD	243.6		243.6	
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1	1		
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	76	76		
550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	FOOT	36	36		
550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	FOOT	25	25		
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	54	54		
550A0430	STORM SEWERS, CLASS A, TYPE 2 30"	FOOT	5	5		
550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	FOOT	24	24		
550A0470	STORM SEWERS, CLASS A, TYPE 2 42"	FOOT	53	53		
55100500	STORM SEWER REMOVAL 12"	FOOT	15	15		
55100700	STORM SEWER REMOVAL 15"	FOOT	26	26		
55100900	STORM SEWER REMOVAL 18"	FOOT	123	123		

\*SPECIALTY ITEM

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	PLOT DATE = 10/18/2021	CHECKED - SPF	REVISED -
		DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 1 OVER DEER CREEK  
SUMMARY OF QUANTITIES**

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	4
CONTRACT NO. 62D49			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION TYPE CODE		
				80% FED 20% STATE	80% FED 20% STATE	100% LOCAL
				ROADWAY 0004	BOX CULVERT 0010	UTILITY 0043
55101100	STORM SEWER REMOVAL 21"	FOOT	27	27		
55101400	STORM SEWER REMOVAL 30"	FOOT	9	9		
55101800	STORM SEWER REMOVAL 42"	FOOT	73	73		
56107400	REMOVE AND RELOCATE WATER MAIN 12"	FOOT	39			39
60200305	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1	1		
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2	2		
60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
60223810	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 3 FRAME, CLOSED LID	EACH	1	1		
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	4	4		
60500040	REMOVING MANHOLES	EACH	3	3		
60500050	REMOVING CATCH BASINS	EACH	1	1		
60500060	REMOVING INLETS	EACH	2	2		
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	890	890		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION TYPE CODE		
				80% FED 20% STATE	80% FED 20% STATE	100% LOCAL
				ROADWAY 0004	BOX CULVERT 0010	UTILITY 0043
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	125	125		
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	112.5	112.5		
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	50	50		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4		
63200310	GUARDRAIL REMOVAL	FOOT	245	245		
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	675	675		
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4		
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1		
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1		
* 66901005	ENGINEERED BARRIER	SQ YD	125	125		
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10	10		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MC	12	12		
67100100	MOBILIZATION	L SUM	1	1		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		

\* SPECIALTY ITEM

MODEL: Default; FILE NAME: I:\PJ\IDOT\5888\_PTB\_181\_000\Work Order #7 IL 1 @ Deer Creek\CADD Sheets\ID162D49-HIS-5003.dgn



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	DRAWN - DMW	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - SPF	REVISED -
PLOT DATE = 10/18/2021	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 OVER DEER CREEK  
SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	5
			CONTRACT NO. 62D49	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION TYPE CODE		
				80% FED 20% STATE	80% FED 20% STATE	100% LOCAL
				ROADWAY 0004	BOX CULVERT 0010	UTILITY 0043
* 72000100	SIGN PANEL - TYPE 1	SQ FT	31	31		
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	5	5		
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	66	66		
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	69	69		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	800	800		
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	361	361		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	27	27		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	27	27		
X0326864	BRICK SIDEWALK REMOVAL	SQ FT	285	285		
X0426200	DEWATERING	L SUM	1		1	
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	178.8		178.8	
X6640304	CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED	FOOT	81	81		
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY URBAN	CONSTRUCTION TYPE CODE		
				80% FED 20% STATE	80% FED 20% STATE	100% LOCAL
				ROADWAY 0004	BOX CULVERT 0010	UTILITY 0043
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	55	55		
Z0064600	SELECTIVE CLEARING	ACRE	0.11	0.11		
* Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	3	3		
∅ Z0076600	TRAINEES	HOURS	500	500		
∅ Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500		
* X0328012	CONTROLLED STIFFNESS COLUMN GROUND IMPROVEMENT	L SUM	1		1	

\*SPECIALTY ITEM

MODEL: Default  
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USER NAME = nrankin	DESIGNED - JKP	REVISED -
	DRAWN - DMW	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - SPF	REVISED -
PLOT DATE = 10/18/2021	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 1 OVER DEER CREEK  
SUMMARY OF QUANTITIES**

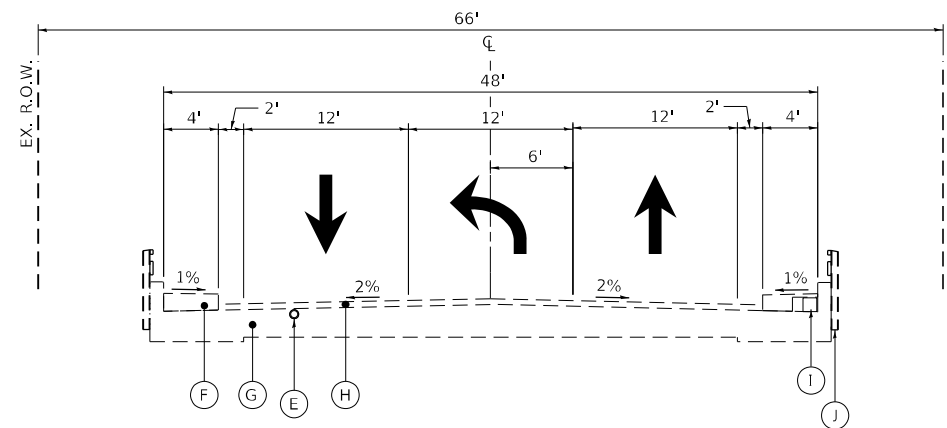
SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62D49	

∅ 0042

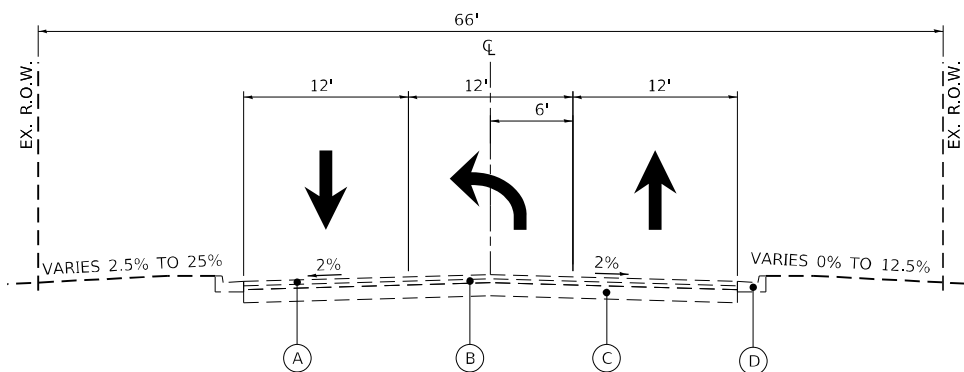
**EXISTING LEGEND**

- (A) EXISTING HMA CONCRETE SURFACE COURSE, 1½"
- (B) EXISTING HMA RESURFACING
- (C) EXISTING PCC PAVEMENT, 18½"-22½"
- (D) EXISTING PCC COMB. CURB AND GUTTER, B-6.24
- (E) EXISTING 6" GAS MAIN WITH 8" CASING
- (F) EXISTING PCC SIDEWALK
- (G) EXISTING PCC BRIDGE DECK SLAB
- (H) EXISTING PCC WEARING SURFACE, 5"
- (I) EXISTING 13"x22" AT&T DUCT
- (J) EXISTING RAILING, TYPE T



**EXISTING BRIDGE CROSS SECTION**

IL-1 / MAIN STREET LOOKING NORTH (STRUCTURE NO. 099-0076)  
DEER CREEK BRIDGE DECK STA. 215+34 TO STA. 215+66



**EXISTING CROSS SECTION**

IL-1 / MAIN STREET (LOOKING NORTH)  
STA. 213+00 TO STA. 215+34  
STA. 215+66 TO STA. 217+00

MODEL Path: \\... CHASTAIN & ASSOCIATES, INC. IDOT16588\_PTB\_181\_006\Work Order #7\_IL\_1\_Deer\_Creek\_CADD\_Sheets\16588-PB-181-006-181-006-181-006.dgn



USER NAME = nrankin	DESIGNED - JKP	REVISED -
PLOT SCALE = 1/4" = 1'-0"	DRAWN - DMW	REVISED -
PLOT DATE = 10/18/2021	CHECKED - SPF	REVISED -
	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 OVER DEER CREEK  
EXISTING TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	7
CONTRACT NO. 62D49				
ILLINOIS FED. AID PROJECT				

**EXISTING LEGEND**

- (A) EXISTING HMA CONCRETE SURFACE COURSE, 1½"
- (B) EXISTING HMA RESURFACING
- (C) EXISTING PCC PAVEMENT, 18½"-22½"
- (D) EXISTING PCC COMB. CURB AND GUTTER, B-6.24
- (E) EXISTING 6" GAS MAIN WITH 8" CASING
- (F) EXISTING PCC SIDEWALK
- (G) EXISTING PCC BRIDGE DECK SLAB
- (H) EXISTING PCC WEARING SURFACE, 5"
- (I) EXISTING 13"x22" AT&T DUCT
- (J) EXISTING RAILING, TYPE T

**PROPOSED LEGEND**

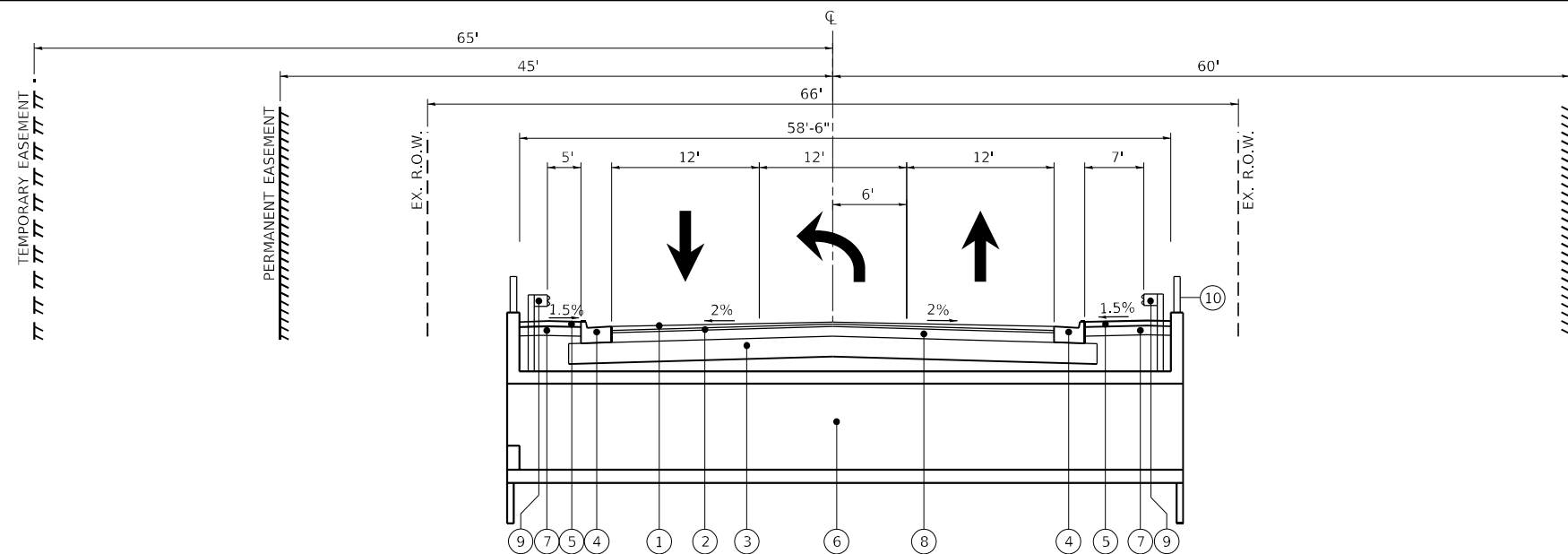
- (1) PROPOSED HMA SURFACE COURSE, MIX "D", N70, (IL-9.5mm), 2"
- (2) PROPOSED POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, ¾"
- (3) AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (4) PROPOSED B-6.24 CURB & GUTTER
- (5) PROPOSED PCC SIDEWALK, 5"
- (6) PROPOSED CAST-IN-PLACE DUAL 12'X7' CULVERT
- (7) SUBBASE GRANULAR MATERIAL, TYPE B, 4"
- (8) PROPOSED HMA BASE COURSE, 8"
- (9) PROPOSED GUARDRAIL
- (10) PROPOSED PEDESTRIAN RAILING, 42"

**MIXTURES TABLE**

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		AIR VOIDS @ NDES	QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE			
<b>DRIVEWAY RECONSTRUCTION</b>			
HMA SURFACE COURSE, MIX "D", N50, (IL-9.5mm), 2"		4% @ 50 GYR.	QC/QA
HMA BASE COURSE (HMA BINDER COURSE, IL-19.0, N50), 8"		4% @ 50 GYR.	QC/QA
<b>HMA PAVEMENT (FULL-DEPTH), 10¾" RECONSTRUCTION</b>			
HMA SURFACE COURSE, MIX "D", N70, (IL-9.5mm), 2"		4% @ 70 GYR.	QC/QA
POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, ¾"		3.5% @ 50 GYR.	QC/QA
HMA BASE COURSE (HMA BINDER COURSE, IL-19.0, N70), 8"		4% @ 70 GYR.	QC/QA
<b>PAVEMENT RESURFACING</b>			
HMA SURFACE COURSE, MIX "D", N70, (IL-9.5mm), 2"		4% @ 70 GYR.	QC/QA
POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, ¾"		3.5% @ 50 GYR.	QC/QA
QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)			

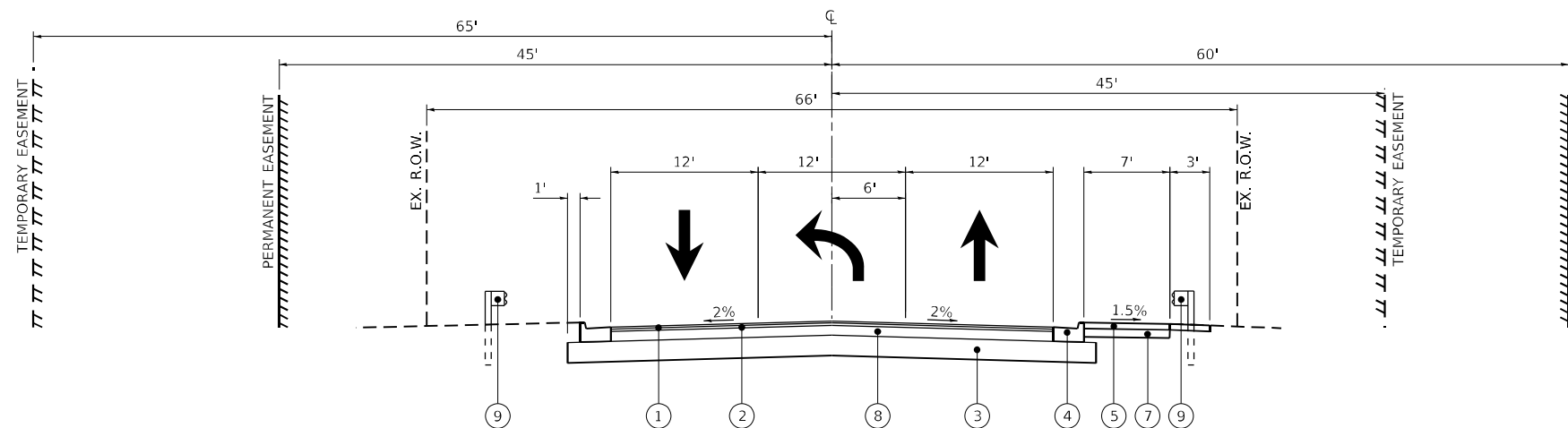
NOTES:

- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON -POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.



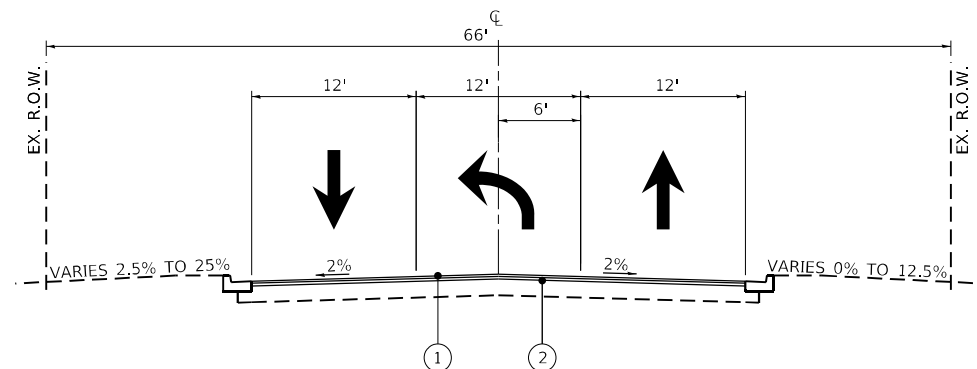
**PROPOSED BOX CULVERT CROSS SECTION**

IL-1 / MAIN STREET LOOKING NORTH  
DEER CREEK CULVERT STA. 215+37.6 TO STA. 215+63.8



**PROPOSED CROSS SECTION**

IL-1 / MAIN STREET (LOOKING NORTH)  
STA. 213+70 TO STA. 216+10  
OMIT STA. 215+37.6 TO STA. 215+63.8  
SEE PLAN & PROFILE FOR GUARDRAIL LIMITS



**PROPOSED CROSS SECTION**

IL-1 / MAIN STREET (LOOKING NORTH) RESURFACING  
STA. 213+00 TO STA. 213+70 &  
STA. 216+10 TO STA. 217+00

MODEL: Default  
FILE NAME: I:\006\Work Order #7\_IL-1\_Deer\_Creek\CADD\_Sheets\162D49-ProposedTypical.dgn  
10/18/2021 10:06:58 AM PTB 131



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PLOT DATE = 10/18/2021	CHECKED - SPF	REVISED -
	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 OVER DEER CREEK  
PROPOSED TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	8
CONTRACT NO. 62D49				
ILLINOIS FED. AID PROJECT				



ALIGNMENT COORDINATES - IL RTE 1			
POINT	STATION	N	E
IL1	200+00.00	1744561.2897	1176272.3235
IL2	226+00.00	1747029.3980	1175751.0886
IL7	315+00.00	1747736.3839	1176145.6120

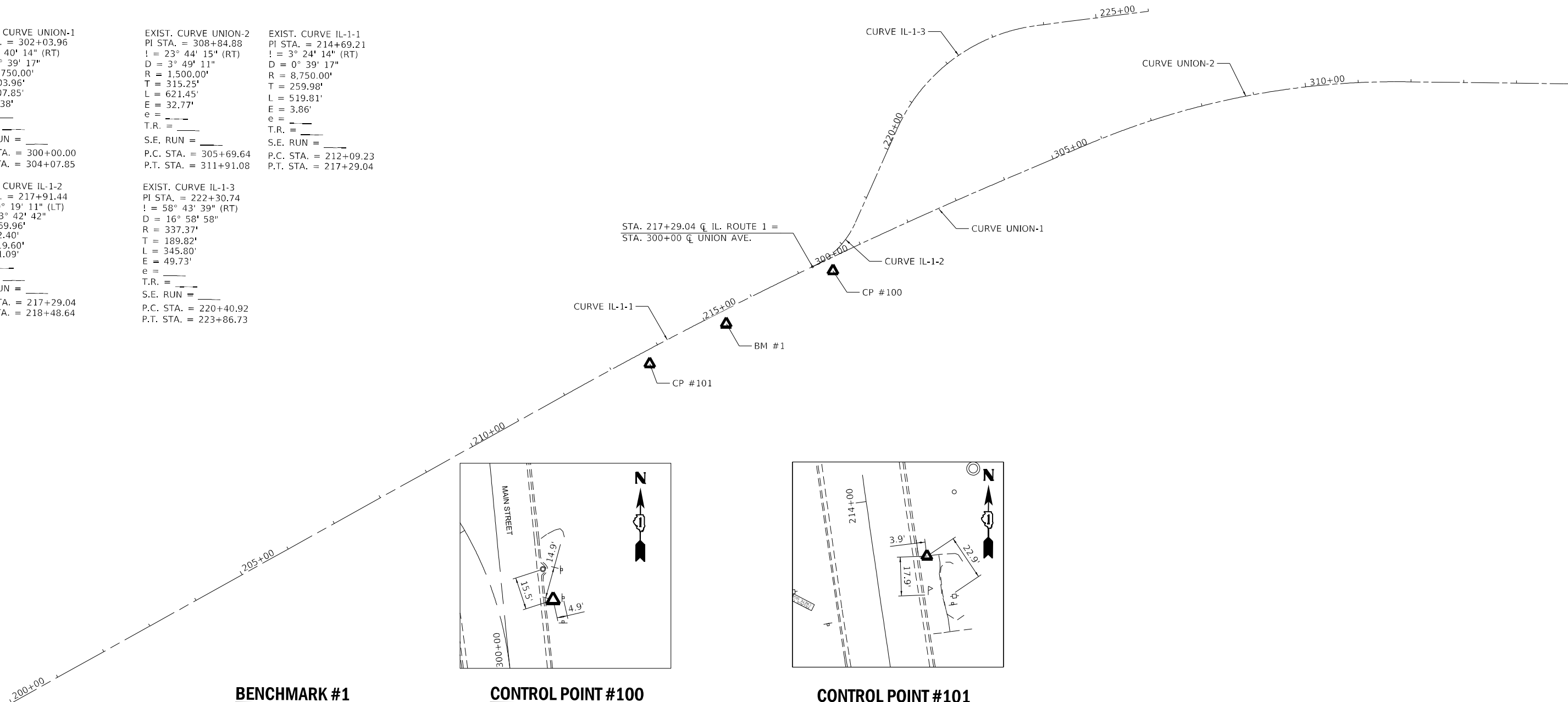
EXIST. CURVE UNION-1  
 PI STA. = 302+03.96  
 I = 2° 40' 14" (RT)  
 D = 0° 39' 17"  
 R = 8,750.00'  
 T = 203.96'  
 L = 407.85'  
 E = 2.38'  
 e = \_\_\_\_\_  
 T.R. = \_\_\_\_\_  
 S.E. RUN = \_\_\_\_\_  
 P.C. STA. = 300+00.00  
 P.T. STA. = 304+07.85

EXIST. CURVE UNION-2  
 PI STA. = 308+84.88  
 I = 23° 44' 15" (RT)  
 D = 3° 49' 11"  
 R = 1,500.00'  
 T = 315.25'  
 L = 621.45'  
 E = 32.77'  
 e = \_\_\_\_\_  
 T.R. = \_\_\_\_\_  
 S.E. RUN = \_\_\_\_\_  
 P.C. STA. = 305+69.64  
 P.T. STA. = 311+91.08

EXIST. CURVE IL-1-1  
 PI STA. = 214+69.21  
 I = 3° 24' 14" (RT)  
 D = 0° 39' 17"  
 R = 8,750.00'  
 T = 259.98'  
 L = 519.81'  
 E = 3.86'  
 e = \_\_\_\_\_  
 T.R. = \_\_\_\_\_  
 S.E. RUN = \_\_\_\_\_  
 P.C. STA. = 212+09.23  
 P.T. STA. = 217+29.04

EXIST. CURVE IL-1-2  
 PI STA. = 217+91.44  
 I = 40° 19' 11" (LT)  
 D = 33° 42' 42"  
 R = 169.96'  
 T = 62.40'  
 L = 119.60'  
 E = 11.09'  
 e = \_\_\_\_\_  
 T.R. = \_\_\_\_\_  
 S.E. RUN = \_\_\_\_\_  
 P.C. STA. = 217+29.04  
 P.T. STA. = 218+48.64

EXIST. CURVE IL-1-3  
 PI STA. = 222+30.74  
 I = 58° 43' 39" (RT)  
 D = 16° 58' 58"  
 R = 337.37'  
 T = 189.82'  
 L = 345.80'  
 E = 49.73'  
 e = \_\_\_\_\_  
 T.R. = \_\_\_\_\_  
 S.E. RUN = \_\_\_\_\_  
 P.C. STA. = 220+40.92  
 P.T. STA. = 223+86.73



**BENCHMARK #1**

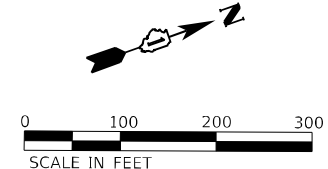
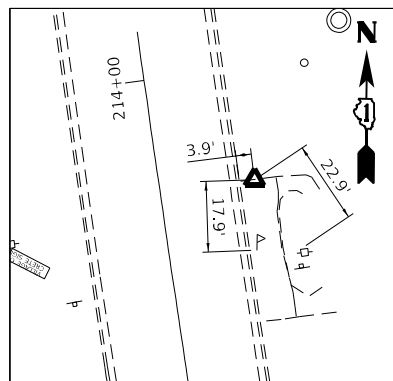
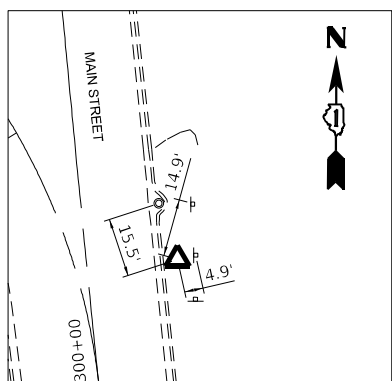
CHISELED "□" AT SE CORNER OF CULVERT HEADWALL  
 STA. 300+31.86, 23.64' RT  
 N 1746077.898  
 E 1176044.080  
 ELE. 693.661

**CONTROL POINT #100**

SET IR WITH CAP IN PARKWAY  
 STA. 215+34.27, 24.44' RT  
 N 1746302.186  
 E 1176016.415  
 ELE. 695.935

**CONTROL POINT #101**

SET PK NAIL IN DRIVEWAY ENTRANCE  
 STA. 213+70.02, 24.82' RT  
 N 1745915.900  
 E 1176067.532  
 ELE. 694.644



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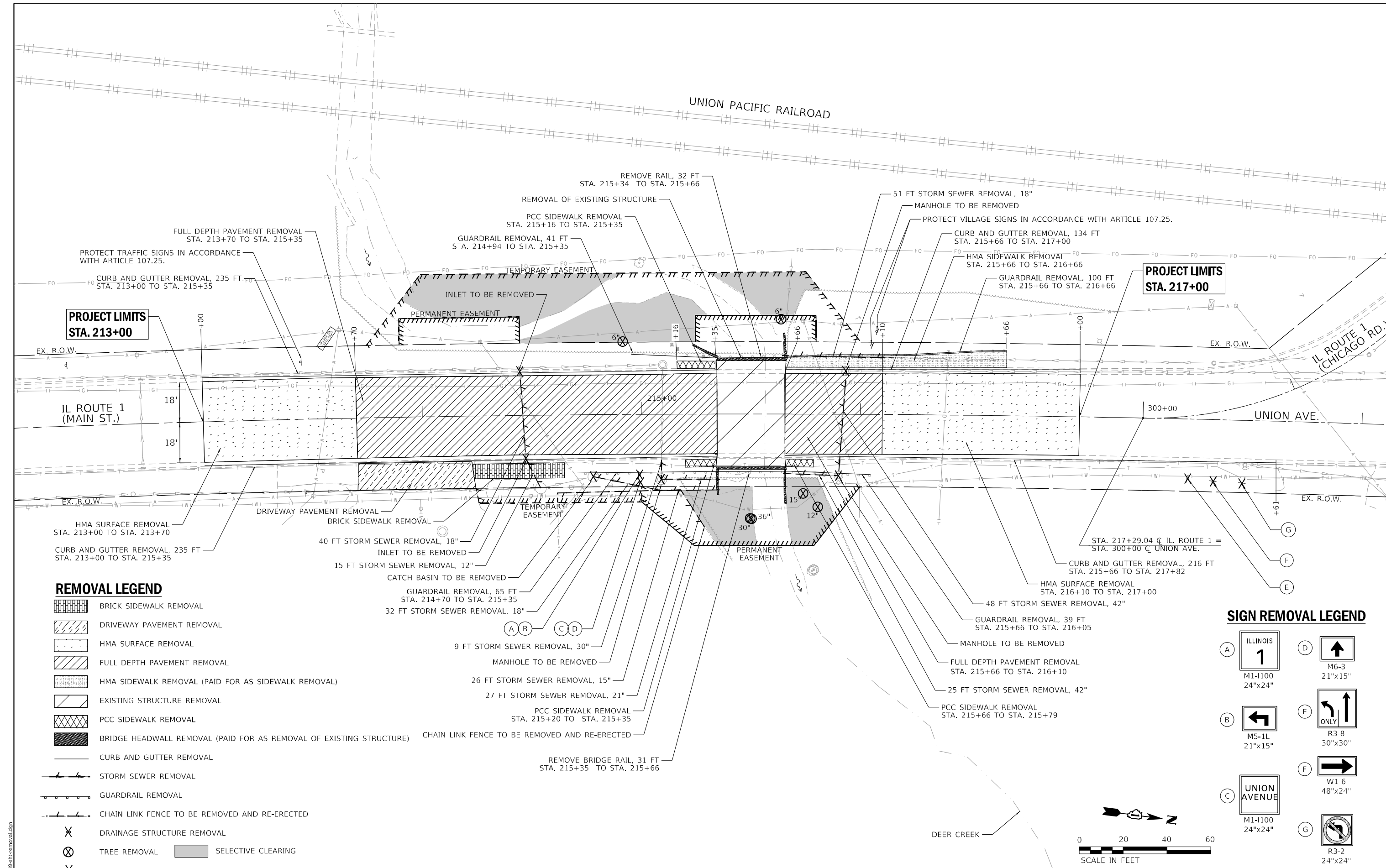


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PLOT SCALE = 200,0000' / in.	DRAWN - DMW	REVISED -
PLOT DATE = 10/18/2021	CHECKED - SPF	REVISED -
	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 OVER DEER CREEK ALIGNMENT, TIES, AND BENCHMARKS	
SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 876	SECTION 10WB-B	COUNTY WILL	TOTAL SHEETS 39	SHEET NO. 9
CONTRACT NO. 62D49				
ILLINOIS FED. AID PROJECT				



**PROJECT LIMITS  
STA. 217+00**

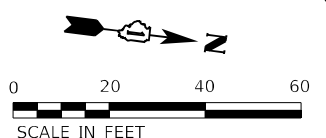
**PROJECT LIMITS  
STA. 213+00**

**REMOVAL LEGEND**

- BRICK SIDEWALK REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- HMA SURFACE REMOVAL
- FULL DEPTH PAVEMENT REMOVAL
- HMA SIDEWALK REMOVAL (PAID FOR AS SIDEWALK REMOVAL)
- EXISTING STRUCTURE REMOVAL
- PCC SIDEWALK REMOVAL
- BRIDGE HEADWALL REMOVAL (PAID FOR AS REMOVAL OF EXISTING STRUCTURE)
- CURB AND GUTTER REMOVAL
- STORM SEWER REMOVAL
- GUARDRAIL REMOVAL
- CHAIN LINK FENCE TO BE REMOVED AND RE-ERECTED
- DRAINAGE STRUCTURE REMOVAL
- TREE REMOVAL
- SELECTIVE CLEARING
- SIGN REMOVAL

**SIGN REMOVAL LEGEND**

- (A) ILLINOIS 1  
M1-1100  
24"x24"
- (B) M5-1L  
21"x15"
- (C) UNION AVENUE  
M1-1100  
24"x24"
- (D) M6-3  
21"x15"
- (E) ONLY  
R3-8  
30"x30"
- (F) W1-6  
48"x24"
- (G) R3-2  
24"x24"



MODEL: Default  
FILE NAME: D:\62D49-rtcr\removal.dgn

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

USER NAME = _USER_	DESIGNED - JKP	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - DMW	REVISED -
PLOT DATE = 10/18/2021	CHECKED - SPF	REVISED -
	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

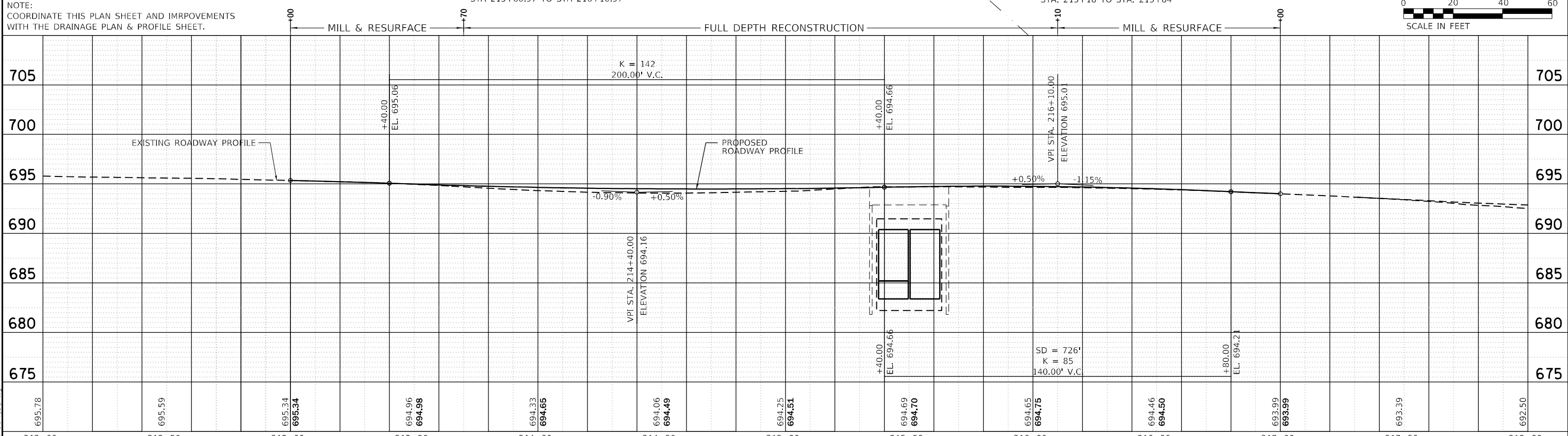
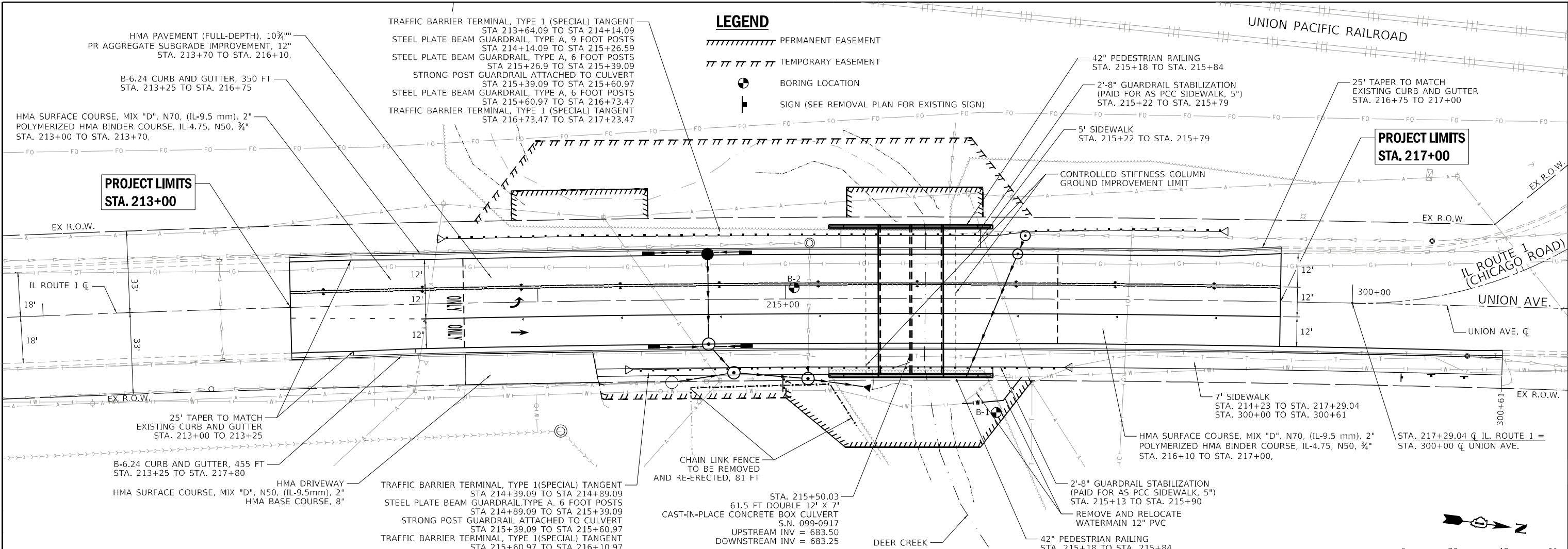
**IL ROUTE 1 OVER DEER CREEK  
REMOVAL PLAN**

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 213+00 TO STA. 300+60

F.A.P. RTE. 876	SECTION 10WB-B	COUNTY WILL	TOTAL SHEETS 39	SHEET NO. 10
ILLINOIS FED. AID PROJECT				CONTRACT NO. 62D49

DATE	
BY	
PLAN	
NO.	
DATE	
BY	
PROFILE	
NO.	

DATE	
BY	
PROFILE	
NO.	
DATE	
BY	
PLAN	
NO.	



695.78	695.59	695.34	694.96	694.33	694.06	694.25	694.69	694.65	694.46	693.99	693.39	692.50
212+00	212+50	213+00	213+50	214+00	214+50	215+00	215+50	216+00	216+50	217+00	217+50	218+00

**SIGN PANEL DETAILS**

ROAD CLOSED AHEAD (1)

DETOUR AHEAD (2)

ROAD CLOSED 500 FT (3)

DETOUR NORTH ILLINOIS 1 (4)

DETOUR NORTH ILLINOIS 1 (5)

DETOUR SOUTH ILLINOIS 1 (6)

DETOUR SOUTH ILLINOIS 1 (7)

DETOUR NORTH ILLINOIS 1 (8)

DETOUR SOUTH ILLINOIS 1 (9)

DETOUR NORTH ILLINOIS 1 (10)

DETOUR SOUTH ILLINOIS 1 (11)

DETOUR NORTH ILLINOIS 1 (12)

DETOUR SOUTH ILLINOIS 1 (13)

RIGHT TURN ONLY (14)

RIGHT TURN ONLY (15)

ROAD CLOSED (16)

END DETOUR (17)

ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY (18)

ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY (19)

BRIDGE OUT (20)

ROAD CLOSED TO THRU TRAFFIC (21)

IL 1 CLOSED AT DEER CREEK FOLLOW DETOUR (A)

SPECIAL - MIN 6" BLACK UPPERCASE LETTERS ON ORANGE REFLECTIVE BACKGROUND

**LEGEND**

DETOUR AHEAD W20-2-48

ROAD CLOSED AHEAD W20-3-48

ROAD CLOSED 500 FT W20-3-48

DETOUR M4-8

NORTH M3-1

SOUTH M3-3

ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY R11-3A-6030

ILLINOIS 1 M1-11000-2424

DETOUR M4-9R-3024

DETOUR M4-9L-3024

DETOUR SPECIAL-3024

DETOUR SPECIAL-3024

DETOUR SPECIAL-3024

DETOUR SPECIAL-3024

END DETOUR M4-8A-2418

RIGHT TURN ONLY R3-26-2430

ROAD CLOSED R11-2-4830 \*

BRIDGE OUT R11-1104 \*

DETOUR M4-10L-4818 \*

DETOUR M4-10R-4818 \*

ROAD CLOSED TO THRU TRAFFIC R11-4-3060

WORK ZONE - FULL CLOSURE

WORK ZONE - PARTIAL CLOSURE

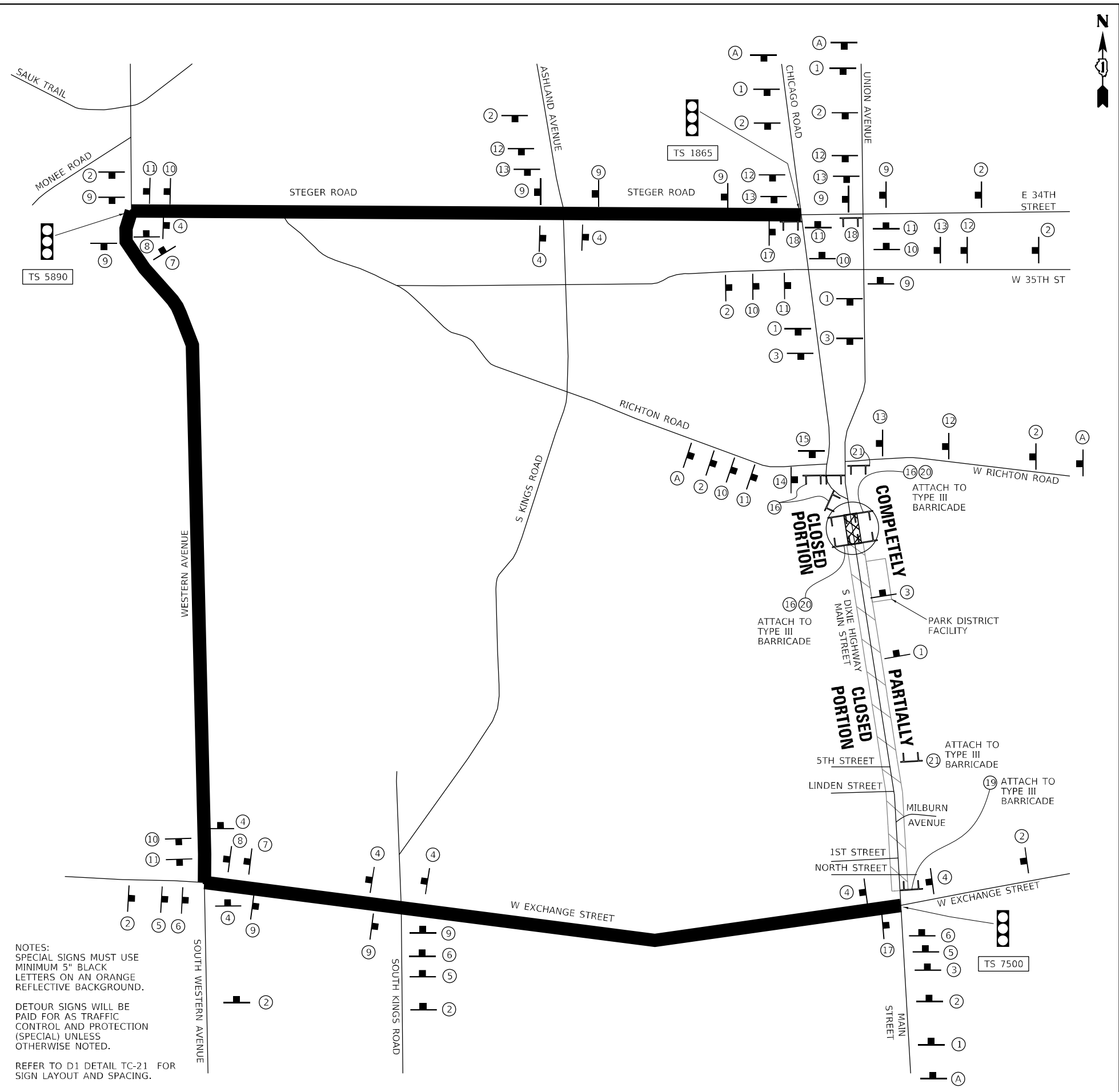
DESIGNATED SIGN POST - MOUNTED IN GROUND

TYPE III BARRICADE WITH SIGN UNLESS OTHERWISE NOTED

\* MOUNT SIGN ON TYPE III BARRICADE WITH FLASHING LIGHTS.

EXISTING TRAFFIC SIGNAL

EXISTING TRAFFIC SIGNALS WILL REQUIRE TEMPORARY TRAFFIC SIGNAL TIMING IMPROVEMENTS



NOTES:  
SPECIAL SIGNS MUST USE MINIMUM 5" BLACK LETTERS ON AN ORANGE REFLECTIVE BACKGROUND.  
DETOUR SIGNS WILL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION (SPECIAL) UNLESS OTHERWISE NOTED.  
REFER TO D1 DETAIL TC-21 FOR SIGN LAYOUT AND SPACING.

MODEL: Default  
FILE NAME: I:\RUI\10016588\_PTB\_131\_006\Work Order #7\_IL\_1\_01\Draw\_Cred\CADD\_Sheets\132\049-PC-detour.dwg



USER NAME = nranjin	DESIGNED - JKP	REVISED -
PLOT SCALE = 100,000 */ in.	DRAWN - DMW	REVISED -
PLOT DATE = 10/18/2021	CHECKED - SPF	REVISED -
	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

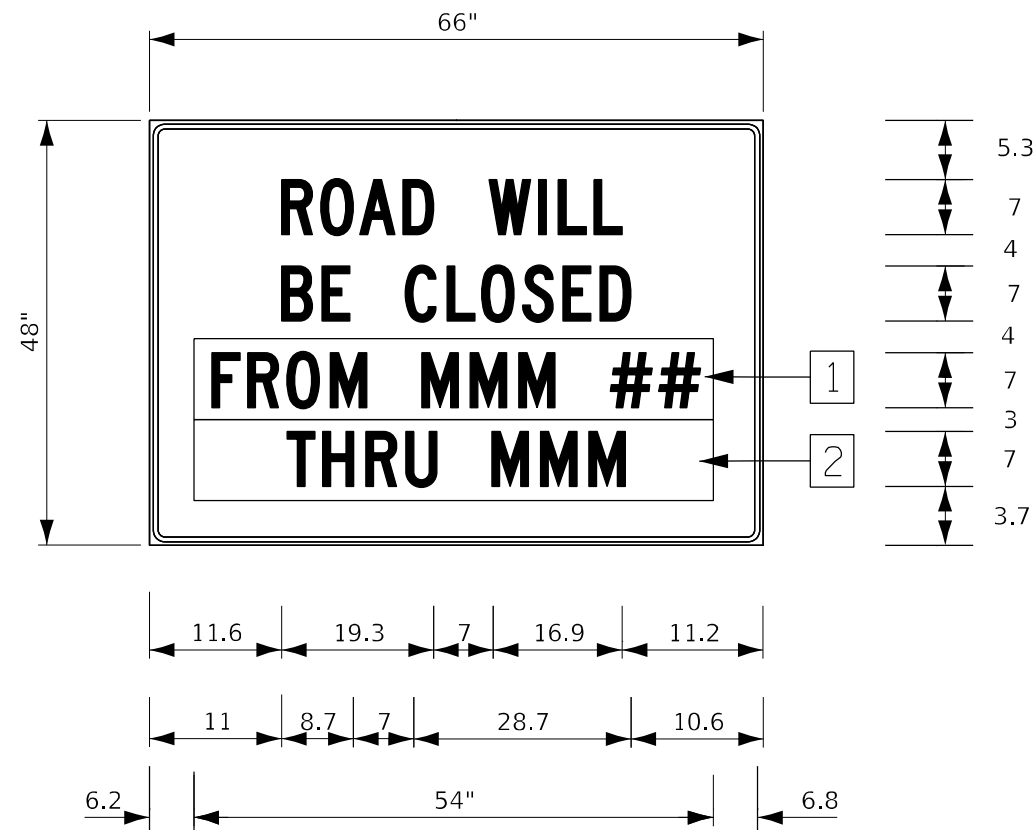
**IL ROUTE 1 OVER DEER CREEK  
DETOUR PLAN**

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

F.A.P. RTE. 876	SECTION 10WB-B	COUNTY WILL	TOTAL SHEETS 39	SHEET NO. 12
CONTRACT NO. 62D49				
ILLINOIS FED. AID PROJECT				

ARTERIAL ROAD INFORMATION SIGN  
FOR ROADS TO BE FULLY CLOSED AND DETOURED

6'R, 1.3" BORDER, BLACK ON ORANGE



ARTERIAL ROAD INFORMATION SIGN NOTES:

1. SIGN SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING. ONE SIGN ASSEMBLY EQUALS 27.3 SQ FT.
2. OVERLAY PANELS SHALL BE "HIGHWAY C" FONT
3. OVERLAY PANEL 1 TO CONTAIN STARTING DATE OF FULL CLOSURE AND DETOUR IMPLEMENTATION
4. OVERLAY PANEL 2 TO CONTAIN ENDING MONTH OF FULL CLOSURE AND DETOUR, OMIT THE DATE ON THE PANEL; MONTH ONLY
5. ERECT SIGN ASSEMBLY (POST-MOUNTED) WITH PANELS 1 AND 2 IN PLACE ON ROAD TO BE CLOSED IN EACH DIRECTION NEAR POINT OF CLOSURE OR WITHIN SECTION TO BE FULLY CLOSED TWO (2) WEEKS PRIOR TO START DATE OF FULL CLOSURE. REMOVE ASSEMBLY AFTER CLOSURE.

MODEL Path: \\... CHASTAIN & ASSOCIATES, INC. 10/18/2021 10:18:21 AM



USER NAME = nrankin	DESIGNED - JKP	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - DMW	REVISED -
PLOT DATE = 10/18/2021	CHECKED - SPF	REVISED -
	DATE - 10/15/2021	REVISED -

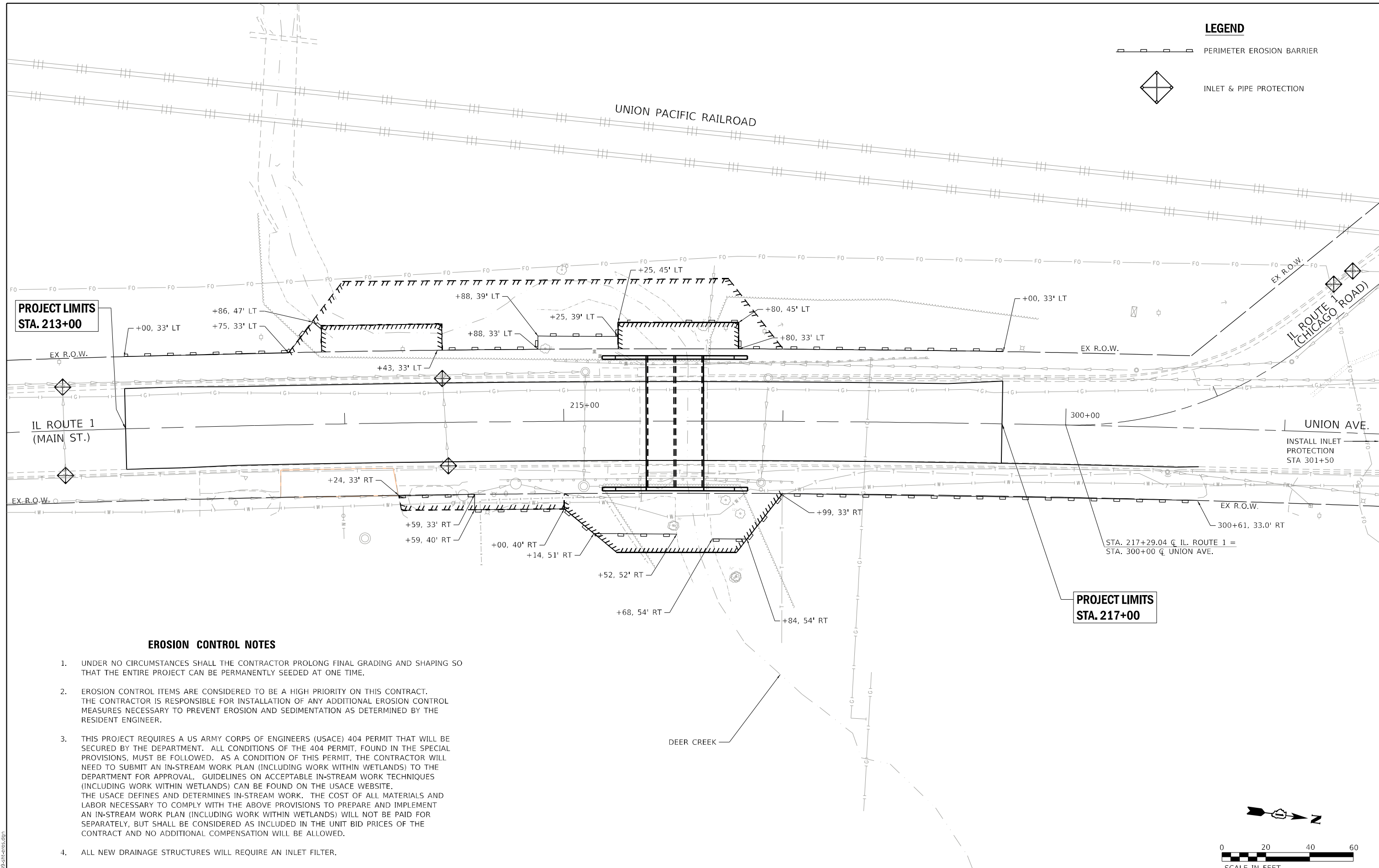
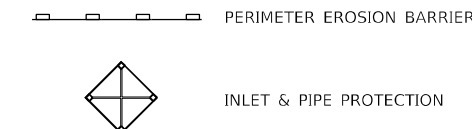
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 OVER DEER CREEK  
ARTERIAL ROAD INFORMATION SIGN DETAIL

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 213+00 TO STA. 300+60

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	13
			CONTRACT NO. 62D49	
ILLINOIS FED. AID PROJECT				

**LEGEND**



**PROJECT LIMITS  
STA. 213+00**

**PROJECT LIMITS  
STA. 217+00**

**EROSION CONTROL NOTES**

1. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
2. EROSION CONTROL ITEMS ARE CONSIDERED TO BE A HIGH PRIORITY ON THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RESIDENT ENGINEER.
3. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. ALL CONDITIONS OF THE 404 PERMIT, FOUND IN THE SPECIAL PROVISIONS, MUST BE FOLLOWED. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES (INCLUDING WORK WITHIN WETLANDS) CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
4. ALL NEW DRAINAGE STRUCTURES WILL REQUIRE AN INLET FILTER.

MODEL: Default  
FILE NAME: D:\E2D49\_213+00.dwg

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

USER NAME = _USER_	DESIGNED - JKP	REVISED -
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PLOT DATE = 12/9/2021	CHECKED - SPF	REVISED -
	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

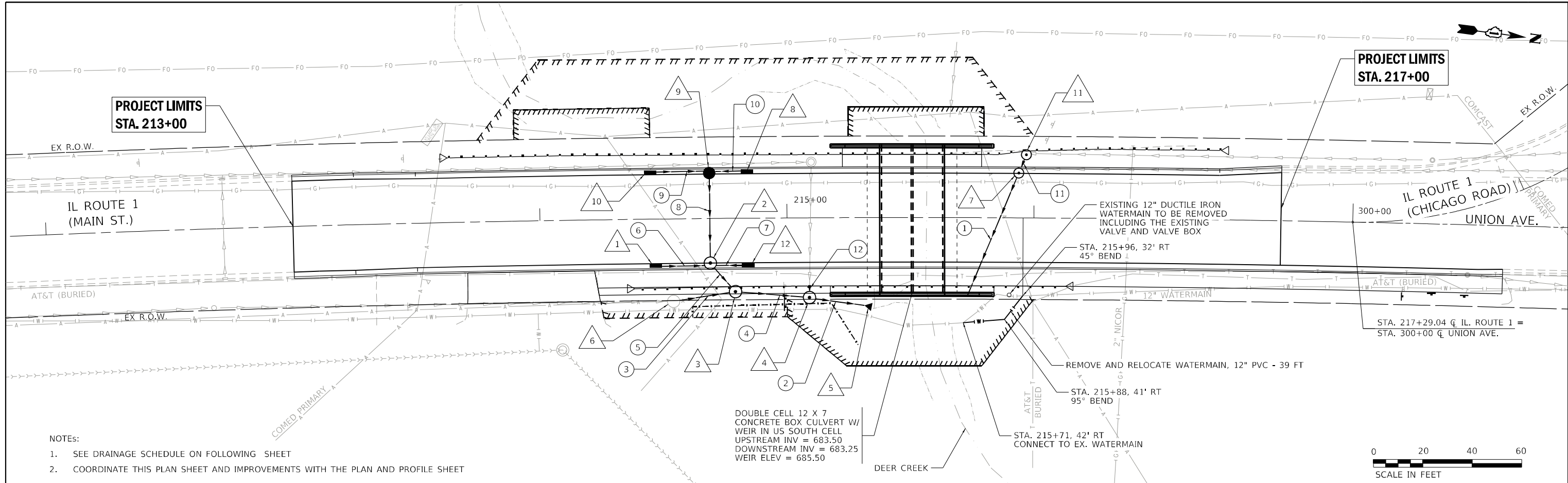
**IL ROUTE 1 OVER DEER CREEK  
EROSION AND SEDIMENT CONTROL PLAN**

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 213+00 TO STA. 300+60

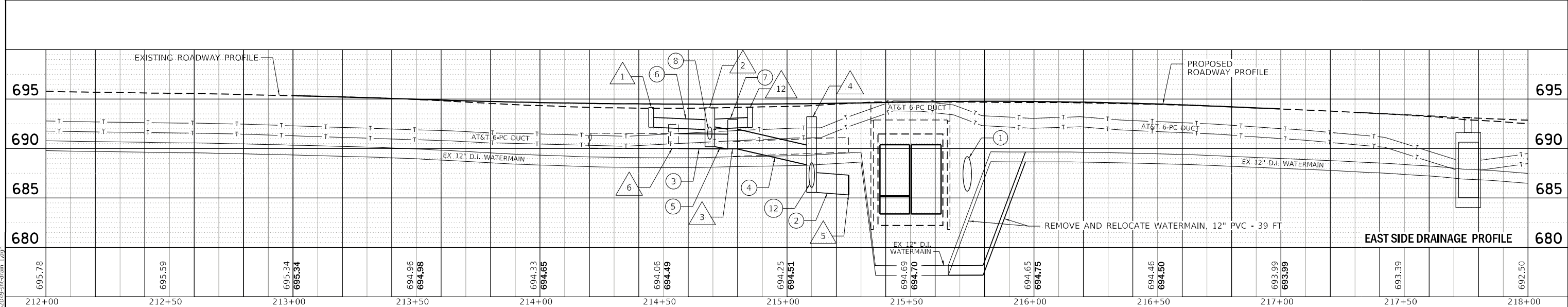
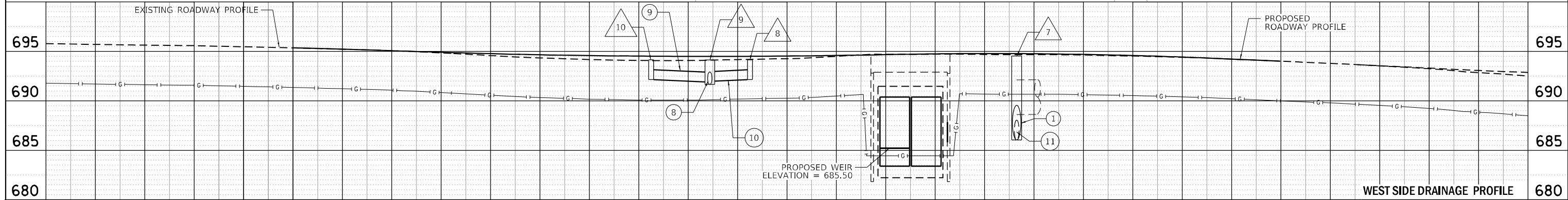
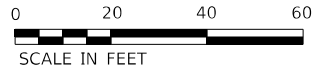
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	14
CONTRACT NO. 62D49				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	



- NOTES:
- SEE DRAINAGE SCHEDULE ON FOLLOWING SHEET
  - COORDINATE THIS PLAN SHEET AND IMPROVEMENTS WITH THE PLAN AND PROFILE SHEET



695.78	695.59	695.34 695.34	694.96 694.98	694.33 694.65	694.06 694.49	694.25 694.51	694.69 694.70	694.65 694.75	694.46 694.50	693.99 693.99	693.39	692.50
212+00	212+50	213+00	213+50	214+00	214+50	215+00	215+50	216+00	216+50	217+00	217+50	218+00

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

USER NAME = _USER_	DESIGNED - JKP	REVISED -
	DRAWN - DMW	REVISED -
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PLOT DATE = 12/9/2021	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 1 OVER DEER CREEK**  
**DRAINAGE PLAN AND PROFILE**

SCALE: 1" = 20'    SHEET 1 OF 2 SHEETS    STA. 213+00 TO STA. 300+60

F.A.P. RTE. 876	SECTION 10WB-B	COUNTY WILL	TOTAL SHEETS 39	SHEET NO. 15
CONTRACT NO. 62D49				
ILLINOIS FED. AID PROJECT				

DRAINAGE STRUCTURE SCHEDULE					
STRUCTURE NO.	DESCRIPTION	STATION	OFFSET	RIM ELEV.	INVERT ELEV.
1	INLET, TYPE A, TYPE 3 FRAME & GRATE	214+47	18' RT	694.14	692.14 N
2	MANHOLE, TYPE A, 6'-DIAMETER, TYPE 3 FRAME & GRATE	214+69	18' RT	694.12	691.92 S, 690.93 W, 691.98 N, 690.18 NE
3	MANHOLE, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	214+79	30' RT	692.92	689.95 N, 689.95 SE, 689.95 SW
4	MANHOLE, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	215+09	32' RT	693.21	686.05 W, 685.55 N, 688.35 S
5	PRECAST REINFORCES CONCRETE FLARED END SECTION, 36"	215+33	36' RT	-	685.31
6	EX CATCH BASIN	214+54	33' RT	692.43	EX-S, 690.00 N
7	MANHOLE, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	215+94	18' LT	694.40	EX-N, 685.56 E, 686.56 W
8	INLET, TYPE A, TYPE 3 FRAME & GRATE	214+84	18' LT	694.13	692.13 S
9	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 3 FRAME & GRATE	214+69	18' LT	694.12	691.98 N, 691.65 E, 691.90 S
10	INLET, TYPE A, TYPE 3 FRAME & GRATE	214+45	18' LT	694.14	692.14 N
11	MANHOLE, TYP A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	215+97	26' LT	694.52	EX-N, 687.59 E
12	INLET, TYPE A, TYPE 3 FRAME & GRATE	214+84	18' RT	694.13	692.13 S

STORM SEWER SCHEDULE									
PIPE NO.	FROM STR.	TO STR.	LENGTH (FT)	DIA. (IN)	PIPE TYPE	SLOPE %	TB (CY)	UPSTREAM INVERT	DOWNSTREAM INVERT
1	7	NE HEADWALL	53	42	RCP	1.0	71.85	686.03	685.50
2	4	5	24	36	RCP	1.0	0	685.55	685.31
3	14	3	25	18	RCP	0.6	3.44	690.00	689.95
4	3	4	30	24	RCP	2.0	7.61	689.95	688.35
5	2	3	16	24	RCP	1.5	2.13	690.18	689.95
6	1	2	22	12	RCP	1.0	2.34	692.14	691.92
7	12	2	15	12	RCP	1.0	1.33	692.13	691.98
8	9	2	36	15	RCP	2.0	6.19	691.65	690.93
9	10	9	24	12	RCP	1.0	2.80	692.14	691.90
10	8	9	15	12	RCP	1.0	1.49	692.13	691.98
11	11	7	8	24	RCP	1.0	2.83	687.59	687.53
12	EX PIPE	4	5	30	RCP	EX-0.8	62.66	686.09	686.05

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USER NAME = nrankin  
 PLOT SCALE = 100,0000' / in.  
 PLOT DATE = 10/18/2021

DESIGNED - JKP  
 DRAWN - DMW  
 CHECKED - SPF  
 DATE - 10/15/2021

REVISED -  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION





IL ROUTE 1 OVER DEER CREEK  
 DRAINAGE SCHEDULE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	16
CONTRACT NO. 62D49				
ILLINOIS FED. AID PROJECT				



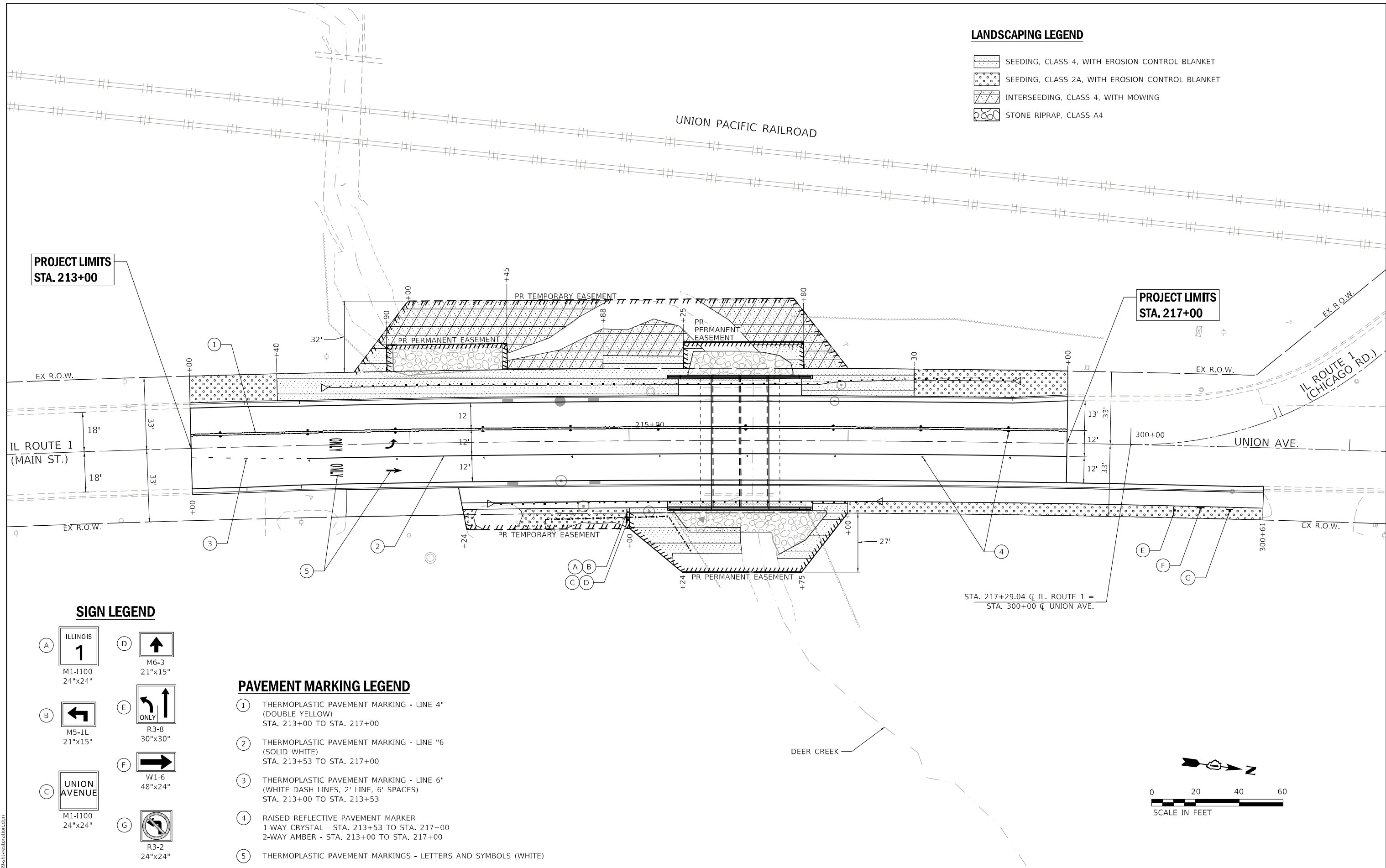
**LANDSCAPING LEGEND**

-  SEEDING, CLASS 4, WITH EROSION CONTROL BLANKET
-  SEEDING, CLASS 2A, WITH EROSION CONTROL BLANKET
-  INTERSEEDING, CLASS 4, WITH MOWING
-  STONE RIPRAP, CLASS A4








UNION PACIFIC RAILROAD

**PROJECT LIMITS  
STA. 213+00**

**PROJECT LIMITS  
STA. 217+00**



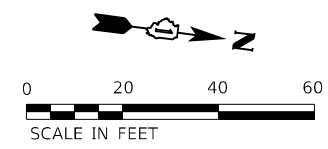
**SIGN LEGEND**

- A**  M1-1100 24"x24"
- B**  M5-1L 21"x15"
- C**  M1-1100 24"x24"
- D**  M6-3 21"x15"
- E**  R3-8 30"x30"
- F**  W1-6 48"x24"
- G**  R3-2 24"x24"

**PAVEMENT MARKING LEGEND**

- 1** THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW) STA. 213+00 TO STA. 217+00
- 2** THERMOPLASTIC PAVEMENT MARKING - LINE "6" (SOLID WHITE) STA. 213+53 TO STA. 217+00
- 3** THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE DASH LINES, 2' LINE, 6' SPACES) STA. 213+00 TO STA. 213+53
- 4** RAISED REFLECTIVE PAVEMENT MARKER 1-WAY CRYSTAL - STA. 213+53 TO STA. 217+00 2-WAY AMBER - STA. 213+00 TO STA. 217+00
- 5** THERMOPLASTIC PAVEMENT MARKINGS - LETTERS AND SYMBOLS (WHITE)

STA. 217+29.04 Q IL. ROUTE 1 =  
STA. 300+00 Q UNION AVE.



MODEL: Default  
FILE NAME: D:\62D49\_rtr-restoration.dwg

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS

USER NAME = _USER_	DESIGNED - JKP	REVISED -
PLOT SCALE = 40,0000 */ in.	DRAWN - DMW	REVISED -
PLOT DATE = 12/9/2021	CHECKED - SPF	REVISED -
	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 1 OVER DEER CREEK  
RESTORATION PLAN**

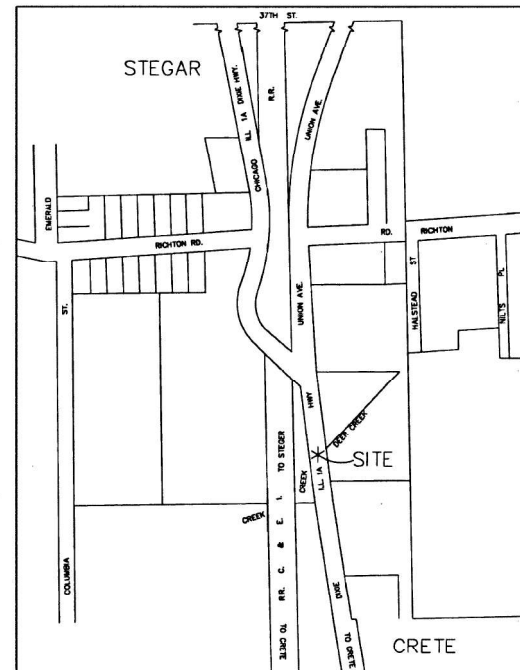
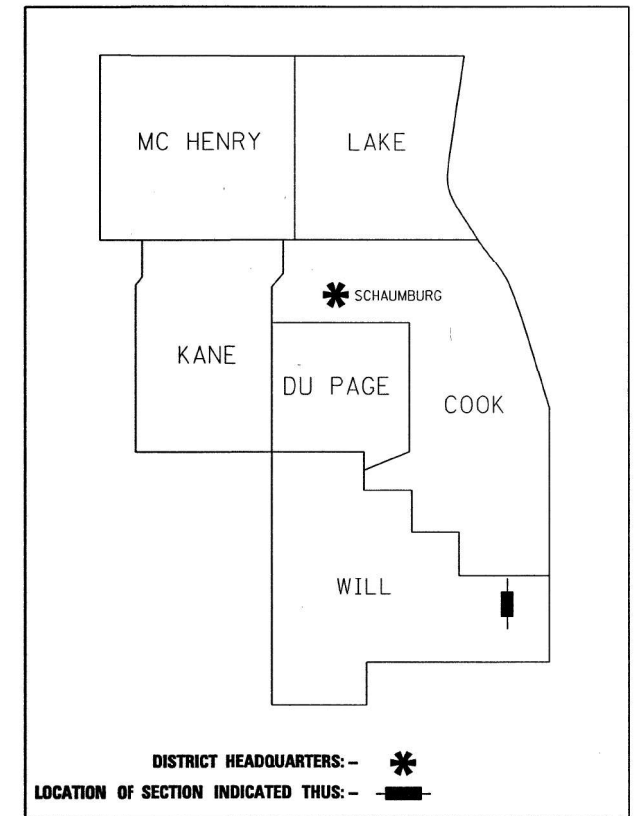
SCALE: 1"= 20' SHEET 1 OF 1 SHEETS STA. 213+00 TO STA. 300+60

F.A.P. RTE. 876	SECTION 10WB-B	COUNTY WILL	TOTAL SHEETS 39	SHEET NO. 17
CONTRACT NO. 62D49				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PLAT OF HIGHWAYS**

**ROUTE IL 1 (DIXIE HIGHWAY)  
SECTION:  
COUNTY: WILL  
LIMITS: OVER DEER CREEK  
JOB NO: R-91-011-16**

PARCEL NUMBER	OWNER	SHEET NUMBER	PROPERTY ACQUIRED BY
1MM0002	CMN PROPERTIES, LLC	2,3	
1MM0001TE	CHARLES K. BLUM, TRUSTEE (OR HIS SUCCESSORS)	2,3	
1MM0001PE-A	CHARLES K. BLUM, TRUSTEE (OR HIS SUCCESSORS)	2,3	
1MM0001PE-B	CHARLES K. BLUM, TRUSTEE (OR HIS SUCCESSORS)	2,3	
1MM0003PE	GLK MOBILE HOMES AND APARTMENTS, LLC	2,3	
1MM0004PE	FIRST COMMUNITY BANK AND TRUST, AS TRUSTEE UNDER A TRUST AGREEMENT DATED THE 3RD DAY OF SEPTEMBER, 2014, AND KNOWN AS TRUST NUMBER 2014-0460	2,3	
1MM0004TE	FIRST COMMUNITY BANK AND TRUST, AS TRUSTEE UNDER A TRUST AGREEMENT DATED THE 3RD DAY OF SEPTEMBER, 2014, AND KNOWN AS TRUST NUMBER 2014-0460	2,3	



**LOCATION MAP**

PROJECT LENGTH = 222.73 FT. = 0.005 MILE

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

**GRÄEF** 8501 W. Higgins Road; Suite 280  
Chicago, Illinois 60631  
(773) 399-0112

**IDOT USE ONLY**

MODEL NUMBER: 11/15/2021  
FILE NAME: 11/15/2021

**CHASTAIN & ASSOCIATES LLC**  
CONSULTING ENGINEERS AND ARCHITECTS

USER NAME = \$USERS	DESIGNED - JKP	REVISED -
PLOT SCALE = \$SCALES	DRAWN - DMW	REVISED -
PLOT DATE = \$DATES	CHECKED - SPF	REVISED -
	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 OVER DEER CREEK  
PLAT OF HIGHWAYS

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	18
CONTRACT NO. 62D49				
ILLINOIS FED. AID PROJECT				

PART OF THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 34 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, ILLINOIS.

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	SQUARE FEET	PARCEL INDEX NUMBER
1MM0002	1.634	0.156	0.125	1.478			23-15-05-416-002
1MM0001TE					0.066	2,893	NO PIN ASSIGNED
1MM0001PE-A	0.343			0.343	0.004	188	
1MM0001PE-B					0.002	82	
1MM0003PE	3.366			3.366	0.015	648	23-15-05-417-004 23-15-05-417-007
1MM0004PE	4.874			4.874	0.044	1,914	23-15-05-417-005 23-15-05-417-009
1MM0004TE					0.018	802	23-15-05-417-010

GRID COORDINATES ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD83 (2011) AND THE FOUND IRON PIPE AT THE SOUTHWEST CORNER OF SECTION 5-34-14 HAS A VALUE OF 1,745,471.200 NORTH AND 1,176,361.511 EAST, COMBINED FACTOR 0.99998953

STATION	OFFSET	NORTH	EAST	STATION	OFFSET	NORTH	EAST
212+09.23	0.00' RT	1,745,753.240	1,176,068.649	215+00.00	28.96' RT	1,746,044.547	1,176,053.136
213+80.35	39.53' LT	1,745,916.298	1,176,002.391	215+00.00	40.28' RT	1,746,046.082	1,176,064.354
213+80.89	6.53' LT	1,745,921.750	1,176,034.937	215+20.47	59.00' LT	1,746,053.037	1,175,963.217
213+90.00	39.69' LT	1,745,925.859	1,176,000.794	215+24.00	60.28' RT	1,746,072.412	1,176,080.967
213+90.00	44.71' LT	1,745,925.116	1,175,995.831	215+25.00	41.90' LT	1,746,059.831	1,175,979.558
213+90.86	52.97' LT	1,745,924.747	1,175,987.529	215+25.00	44.72' LT	1,746,059.457	1,175,976.765
213+98.68	44.71' LT	1,745,933.748	1,175,994.542	215+27.85	56.25' LT	1,746,060.772	1,175,964.956
214+00.00	64.71' LT	1,745,932.117	1,175,974.565	215+42.13	44.72' LT	1,746,076.526	1,175,974.493
214+07.41	39.97' LT	1,745,943.116	1,175,997.914	215+44.34	42.22' LT	1,746,079.058	1,175,976.683
214+16.61	36.13' LT	1,745,952.801	1,176,000.394	215+48.92	36.06' LT	1,746,084.420	1,175,982.189
214+31.48	34.83' LT	1,745,987.506	1,175,994.844	215+52.71	24.56' LT	1,746,089.682	1,175,993.106
214+31.75	40.29' RT	1,745,978.811	1,176,073.836	215+52.96	9.36' LT	1,746,091.900	1,176,008.143
214+33.34	27.75' RT	1,745,978.580	1,176,061.197	215+57.17	29.59' RT	1,746,101.108	1,176,046.224
214+45.00	40.59' LT	1,745,980.399	1,175,991.895	215+75.00	64.73' RT	1,746,106.749	1,175,950.391
214+45.00	44.71' LT	1,745,979.814	1,175,987.813	215+79.00	60.27' RT	1,746,126.571	1,176,073.874
214+51.59	36.66' LT	1,745,967.785	1,175,999.529	215+80.00	42.81' LT	1,746,114.513	1,175,971.494
214+60.64	40.84' LT	1,745,995.912	1,175,989.428	215+80.00	44.73' LT	1,746,114.271	1,175,969.592
214+69.13	3.86' LT	1,746,009.508	1,176,024.860	215+80.94	57.78' RT	1,746,128.171	1,176,071.161
214+74.85	53.80' LT	1,746,008.264	1,175,974.611	215+91.95	43.01' LT	1,746,126.404	1,175,969.787
214+92.02	62.38' LT	1,746,024.195	1,175,963.732	216+03.08	29.31' RT	1,746,146.461	1,176,040.156
214+97.53	62.54' LT	1,746,029.672	1,175,962.820	217+29.04	0.00' RT	1,746,267.925	1,175,996.362

PC 1927 & OF CONSTRUCTION  
TAN 552.00' R=8,814.70' Δ = 7° 10'  
ARC LENGTH 1103.50 CALC.  
STA 0+00 1927  
STA 305+77.80 20.33' LT  
N=1,746,842.642 E=1,175,930.089

PI 1927 & OF CONSTRUCTION  
TAN 552.00' Δ = 7° 10'  
STA 5+52  
STA 300+27.09 29.98' LT  
N=1,746,291.661 E=1,175,963.613

PT 1927 & OF CONSTRUCTION  
STA ALONG ARC 1927 11+03.50  
STA 212+05.72 3.68 LT  
N=1,745,749.166 E=1,176,065.612

1927 & OF CONSTRUCTION  
STA AT SOUTH LINE SEC. 5  
1927 13+91  
STA 209+18.76 1.09 RT  
N=1,745,467.109 E=1,176,118.645

C-33° W  
CURVE 33° WEST OF 1927 CL  
PC STA 212+05.78, 36.68 LT  
PC STA 212+05.78, 36.68 LT  
N=1,745,743.069, E=1,176,033.181  
END CURVE STA 218+43.12, 29.97 RT  
N=1,746,347.851, E=1,175,926.8457

**LEGEND**

SECTION CORNER (Symbol with 16 and 15)

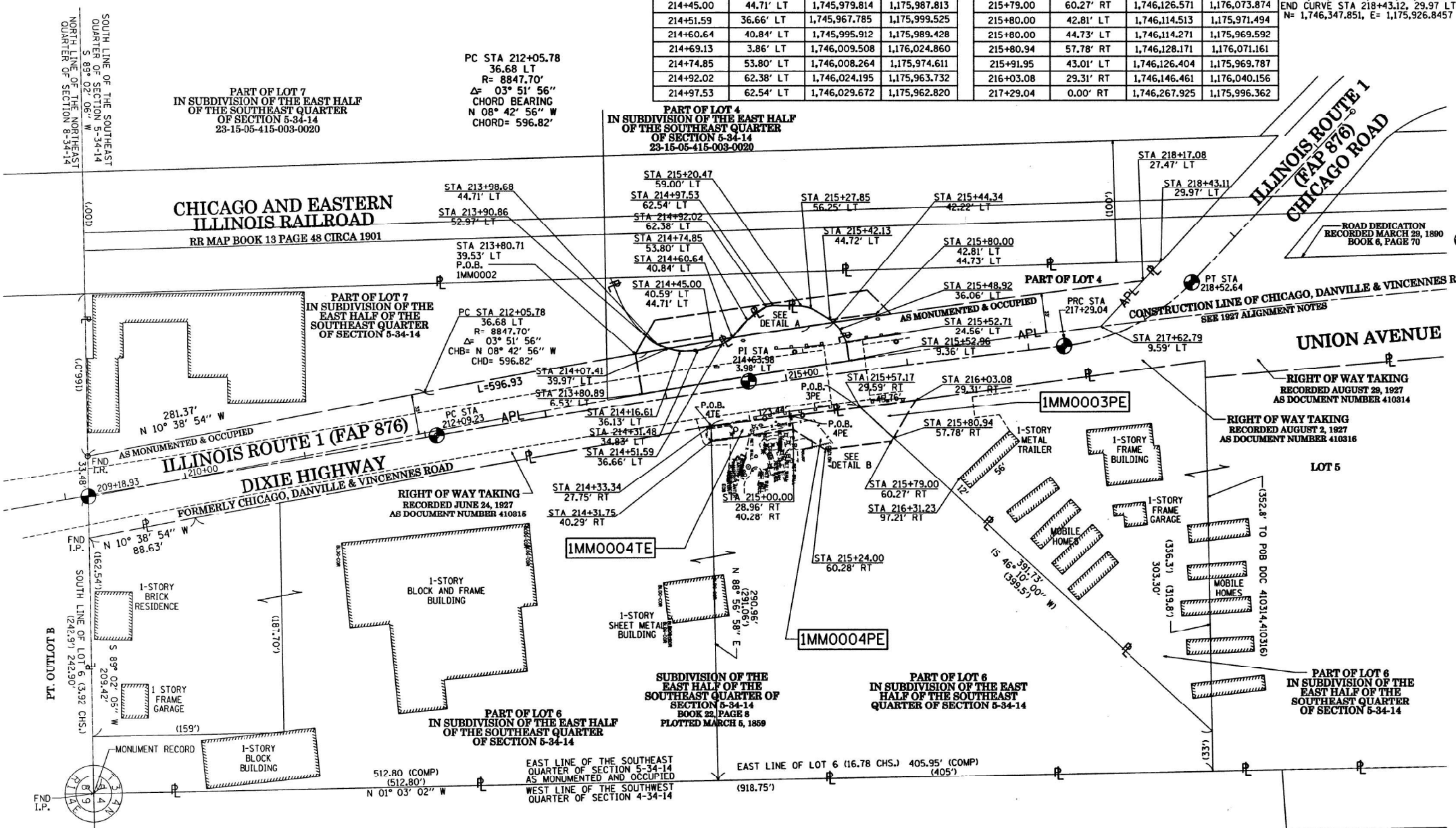
QUARTER CORNER (Symbol with 16 and 15)

GRAPHIC SCALE (0 to 50 FEET, SCALE: 1" = 50')

SECTION - QUARTER SECTION LINE  
PLATTED LOT LINES  
PROPERTY (DEED) LINE  
APPL (Symbol)  
APPARENT PROPERTY LINE  
EXISTING CENTERLINE  
PROPOSED CENTERLINE  
EXISTING RIGHT OF WAY LINE  
PROPOSED RIGHT OF WAY LINE  
EXISTING EASEMENT  
PROPOSED EASEMENT  
EXISTING ACCESS CONTROL LINE  
PROPOSED ACCESS CONTROL LINE  
MEASURED DIMENSION  
COMPUTED DIMENSION  
RECORDED DIMENSION  
EXISTING BUILDING

IRON PIPE OR ROD FOUND (Symbol)  
CUT CROSS FOUND OR SET (Symbol)  
STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.  
STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.  
PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 667101-02 (TO BE SET BY OTHERS)  
RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS )  
COUNTY OF COOK )



BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE AND THE (2011 ADJUSTMENT), EAST ZONE AND THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 5-34-14 BEARS N 83° 01' 57" E

THIS IS TO CERTIFY THAT I, KENT NAGEL, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTION 5, TOWNSHIP 34 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, ILLINOIS, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENURE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT CHICAGO, ILLINOIS THIS 19th DAY OF OCTOBER, 2011

*Kent Nagel*  
KENT NAGEL  
ILLINOIS PROFESSIONAL LAND SURVEYOR 35-3410  
LICENSE EXPIRATION DATE: 11/30/2022

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

**GRAEF**  
8501 West Higgins Road  
Suite 280  
Chicago, IL 60631-2801  
773 / 399 0112  
www.graef-usa.com  
Illinois Professional Design Corporation 184-000938

PTB 161/017 W0\*14 & W0\*15  
GRAEF PROJECT  
20123007.14 & .15

**PLAT OF HIGHWAYS**  
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**  
**IL ROUTE 1**

LIMITS: OVER DEER CREEK COUNTY: WILL  
SECTION: JOB NO.: R-91-011-16  
STATION 213+80.35 TO STATION 216+03.08  
SCALE: 1" = 50' SHEET 2 OF 3 SHEETS

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

**CHASTAIN & ASSOCIATES LLC**

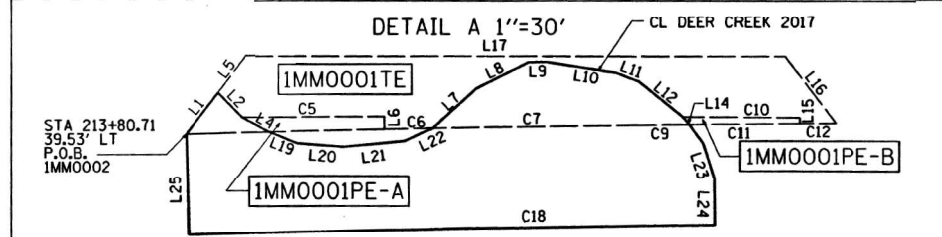
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DESIGNER = DMW	REVISION MADE BY:	
PLOT SCALE = 5SCALES	CHECKED - SPF	REVISED -
PLOT DATE = SDATES	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		IL ROUTE 1 OVER DEER CREEK PLAT OF HIGHWAYS			
SCALE:	SHEET 2 OF 3 SHEETS	STA.	TO STA.		
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
876	10WB-B	WILL	39	19	
CONTRACT NO. 62D49					
ILLINOIS FED. AID PROJECT					

PART OF THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 34 NORTH, RANGE 14 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, ILLINOIS.

LEGEND

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA SQUARE FEET	PARCEL INDEX NUMBER
1MM0002	1.634	0.156	0.125	1.478		23-15-05-416-002
1MM0001TE					0.066	2,893
1MM0001PE-A	0.343			0.343	0.004	188
1MM0001PE-B					0.002	82
1MM0003PE	3.366			3.366	0.015	648
1MM0004PE	4.874			4.874	0.044	1,914
1MM0004TE					0.018	802



Curve	L	R	Chord Bearing	Chord
C1	9.69'	8847.70'	S 09° 28' 40" E	9.69'
C2	8.73'	8795.00'	S 08° 29' 28" E	8.73'
C3	17.49'	8847.70'	S 09° 23' 23" E	17.49'
C4	37.77'	8847.70'	S 09° 12' 39" E	37.77'
C5	46.55'	8795.00'	S 08° 18' 40" E	46.55'
C6	15.71'	8847.70'	S 09° 02' 15" W	15.71'
C7	64.69'	8847.70'	S 08° 46' 38" E	64.69'
C8	17.21'	8795.00'	N 07° 34' 46" W	17.21'
C9	19.43'	8847.70'	S 08° 30' 18" E	19.43'
C10	38.07'	8795.00'	N 07° 23' 58" W	38.07'
C11	35.84'	8847.70'	S 08° 19' 34" E	35.84'
C12	12.01'	8847.70'	S 08° 10' 16" E	12.01'
C-13	185.64'	8847.70'	N 10° 02' 51" W	185.64'
C-14	240.90'	8847.70'	N 09° 52' 06" W	240.89'
C-15	321.29' TO POB	8847.70'	N 09° 36' 29" W	321.28'
C-16	340.73' TO POB	8847.70'	N 09° 32' 43" W	340.71'
C-33'W	596.93'	8847.70'	N 08° 42' 56" W	596.82'
C-18	172.25'	8847.70'	S 08° 56' 57.24" E	172.25'

PC 1927  $\Delta$  OF CONSTRUCTION  
 TAN 552.00' R=8,814.70'  $\Delta$ =7° 10'  
 ARC LENGTH 1,103.50' CALC.  
 STA 0+00 1927  
 STA 305+77.80 20.33' LT  
 N=1,746,842.642 E=1,175,930.089

PI 1927  $\Delta$  OF CONSTRUCTION  
 TAN 552.00'  $\Delta$ =7° 10'  
 STA 5+52  
 STA 300+27.09 29.98' LT  
 N=1,746,291.661 E=1,175,963.613

PT 1927  $\Delta$  OF CONSTRUCTION  
 STA ALONG ARC 1927 11+03.50  
 STA 212+05.72 3.68 LT  
 N=1,745,749.166 E=1,176,065.612

1927  $\Delta$  OF CONSTRUCTION  
 STA AT SOUTH LINE SEC. 5  
 1927 13+91  
 STA 209+18.76 1.09 RT  
 N=1,745,467.109 E=1,176,118.645

CURVE 33'-W WEST OF 1927 CL  
 PC STA 212+05.78, 36.68 LT  
 N=1,745,743.069, E=1,176,033.181  
 END CURVE STA 218+43.12, 29.37 LT  
 N=1,746,347.851, E=1,175,926.8457

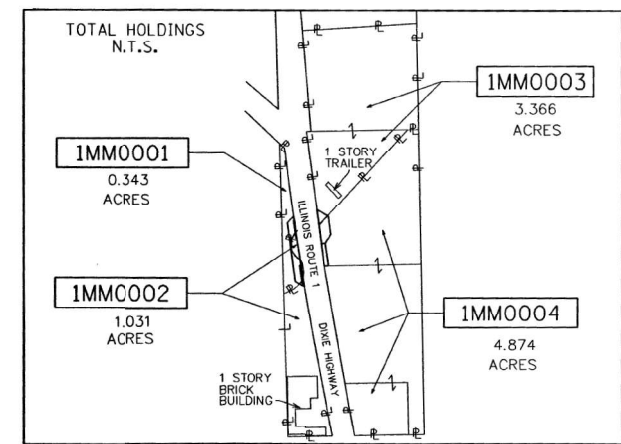
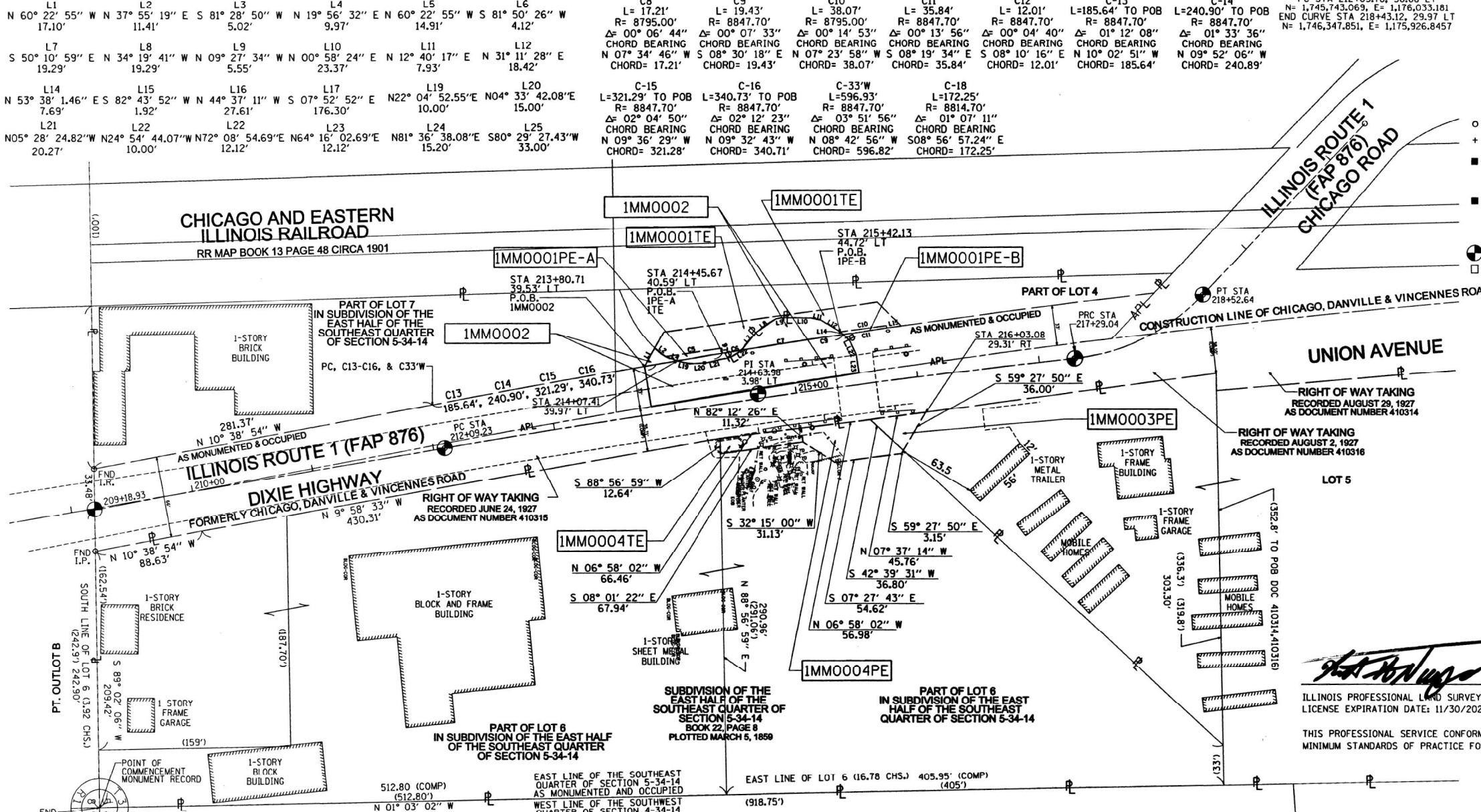
SECTION CORNER 16 15 SECTION CORNER

GRAPHIC SCALE  
 FEET  
 SCALE: 1"=50'

BEARINGS ARE REFERENCED TO THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD83 (2011 ADJUSTMENT), EAST ZONE AND THE SOUTH LINE OF THE SOUTHEAST QUARTER OF SECTION 5-34-14 BEARS N 89° 01' 57" E

- SECTION - QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORDED DIMENSION
- EXISTING BUILDING

- IRON PIPE OR ROD FOUND
- CUT CROSS FOUND OR SET
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
- PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 667101-02 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET



STATE OF ILLINOIS  
 KENT NAGEL  
 35-3410  
 PROFESSIONAL LAND SURVEYOR

**GRAEF**

8501 West Higgins Road  
 Suite 280  
 Chicago, IL 60631-2801  
 773.399.0112  
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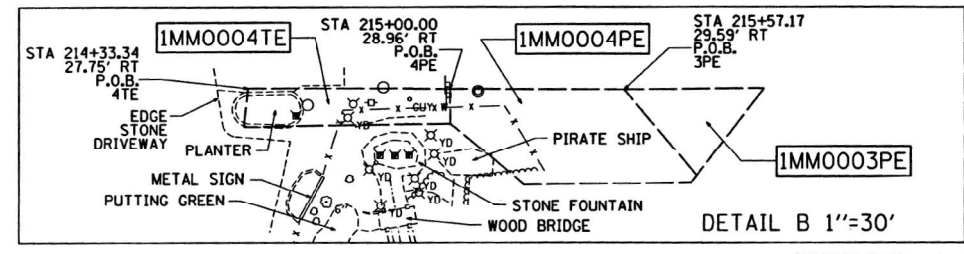
PTB 161/017 W0\*14 & W0\*15  
 GRAEF PROJECT  
 20123007.14 & .15

**PLAT OF HIGHWAYS**  
 STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 IL ROUTE 1

LIMITS: OVER DEER CREEK COUNTY: WILL  
 SECTION: JOB NO.: R-91-011-16  
 STATION 213+80.35 TO STATION 216+03.08  
 SCALE: 1" = 50'

SHEET 3 OF 3 SHEETS

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



LEGEND

- MANHOLE
- CATCHBASIN
- INLET
- POWERPOLE
- HYDRANT
- YARD LIGHT
- WATER B-BOX
- GUY WIRE
- SIGN

CHASTAIN & ASSOCIATES LLC  
 1001 S. WASHINGTON ST. SUITE 200  
 CHICAGO, IL 60605

USER NAME	DESIGNED	REVISION
= SUSERS	- JKP	-
	- DMW	-
	- SPF	-
	-	-

DATE	REVISION
10/15/2021	-
	-
	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL ROUTE 1 OVER DEER CREEK  
 PLAT OF HIGHWAYS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	20

CONTRACT NO. 62D49

ILLINOIS FED. AID PROJECT

BENCHMARK: Chiseled "X" at Southeast Corner of Culvert Headwall Elev. 693.661

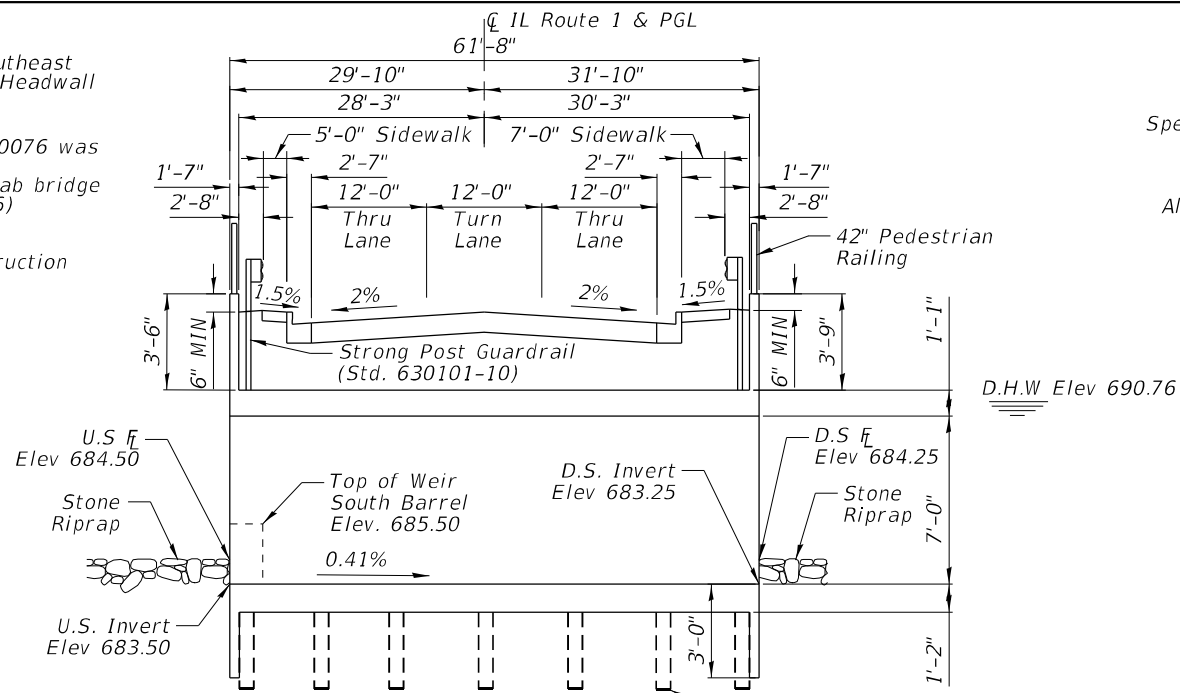
EXISTING STRUCTURE: S.N. 099-0076 was originally constructed in 1928. It is a reinforced single span slab bridge carries Illinois Route 1 (FAP 876) over Deer Creek.

Road to Be Closed During Construction

No Salvage

General Notes:

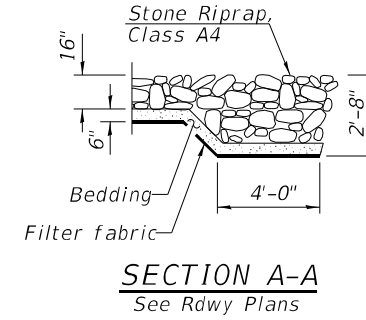
Precast option is not allowed.



**DESIGN SPECIFICATIONS**  
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition with 2018 Interims

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

**DESIGN STRESSES**  
FIELD UNITS  
 $f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)



STATION 215+50.03  
BUILT BY  
STATE OF ILLINOIS  
F.A.P. RT. 876 SEC. 10WB-B  
LOADING HL-93  
STRUCTURE NO. 099-0917

**NAME PLATE**  
See Std. 515001

**INDEX OF SHEETS**

- General Plan & Elevation
- Culvert Plan
- Concrete Box Culvert Details
- East Headwall Details
- West Headwall Details
- Pedestrian Railing Details
- Excavation and Backfill Detail
- Soil Boring Logs

**TOTAL BILL OF MATERIALS**

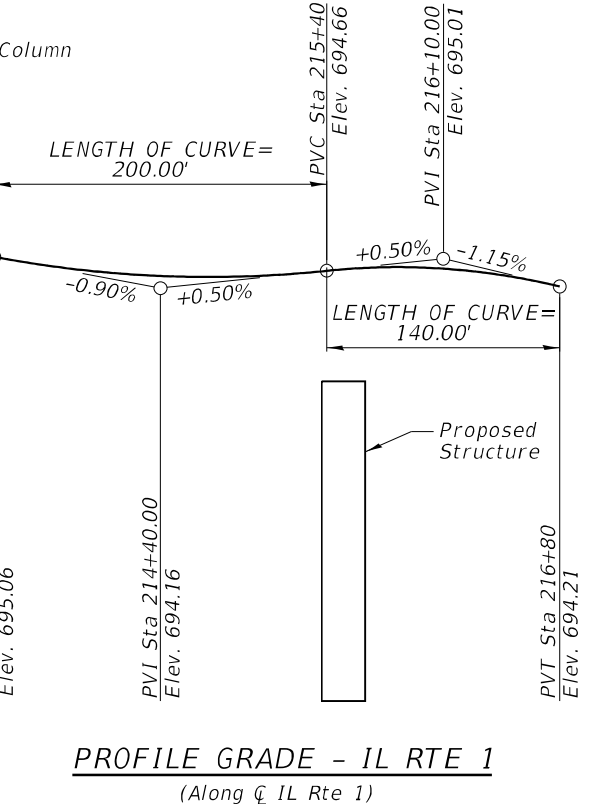
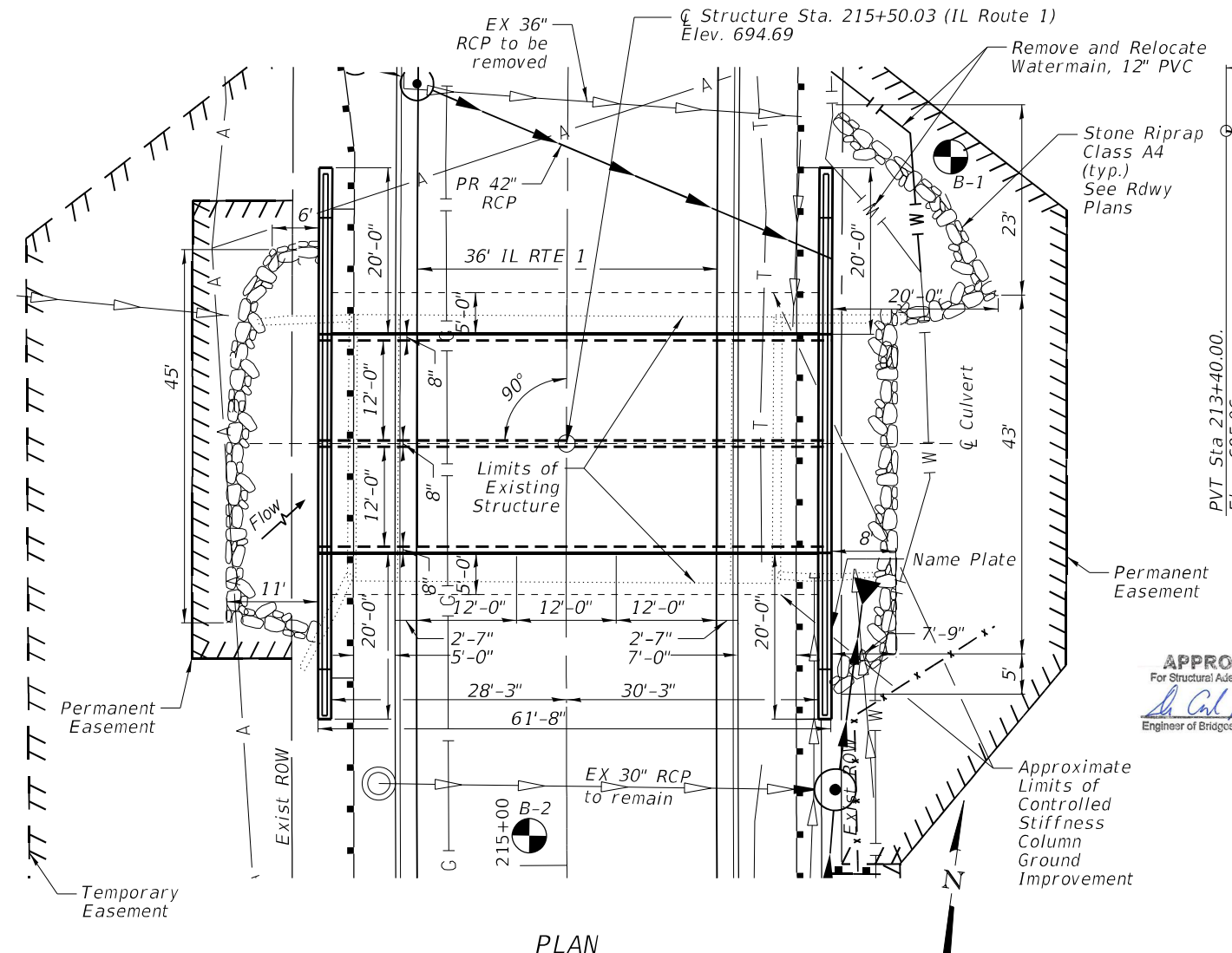
ITEM	UNIT	QUANTITY
REMOVAL OF EXISTING STRUCTURES	EACH	1
REINFORCEMENT BARS	POUND	47,090
CONCRETE BOX CULVERTS	CU YD	243.6
MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	196.1
CONTROLLED STIFFNESS COLUMN GROUND IMPROVEMENT	L SUM	1
STRUCTURE EXCAVATION	CU YD	592
NAME PLATE	EACH	1
GEOCOMPOSITE WALL DRAIN	SQ YD	121
PEDESTRIAN RAILING	FOOT	132

**WATERWAY INFORMATION**

Drainage Area = Exist Overtopping Elev. = 693.37 (Inlet Rim) at Sta. 214+47  
7.17 sq. mi. Prop Overtopping Elev. = 694.00 (Inlet Rim) at Sta. 214+69

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	50	427.1	70.9	115.2	689.80	0.04	0.00	689.84	689.80
Base	100	493.9	111.1	132.0	690.76	0.06	0.00	691.82	690.76
Overtop exist	>500								
Overtop prop									
Max Calc	500	632.1	127.6	132.0	691.70	0.14	0.15	691.84	691.85

10 Year Velocity through Existing Structure = 3.18 ft/s  
10 Year Velocity through Proposed Structure = 2.41 ft/s



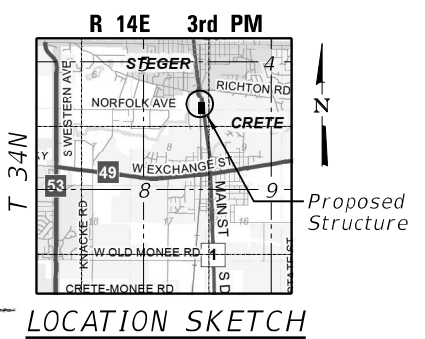
APPROVED For Structural Adequacy Only

*Keith E. Brandau*  
Engineer of Bridges & Structures

KEITH E. BRANDAU  
81-4905  
CHAMPAIGN  
ILLINOIS

10/15/21 Date

Keith E. Brandau, P.E., S.E.  
License Expires 11/30/22



**GENERAL PLAN AND ELEVATION**  
**IL RTE. 1**  
**OVER DEER CREEK**  
F.A.P. RTE. 876 SEC. 10WB-B  
WILL COUNTY  
STATION 215+50.03  
S.N. 099-0917

CHASTAIN & ASSOCIATES LLC

USER NAME = joang	DESIGNED - BCG	REVISED -
	DRAWN - DMW	REVISED -
	CHECKED - JMB	REVISED -
PLOT DATE = 12/9/2021	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

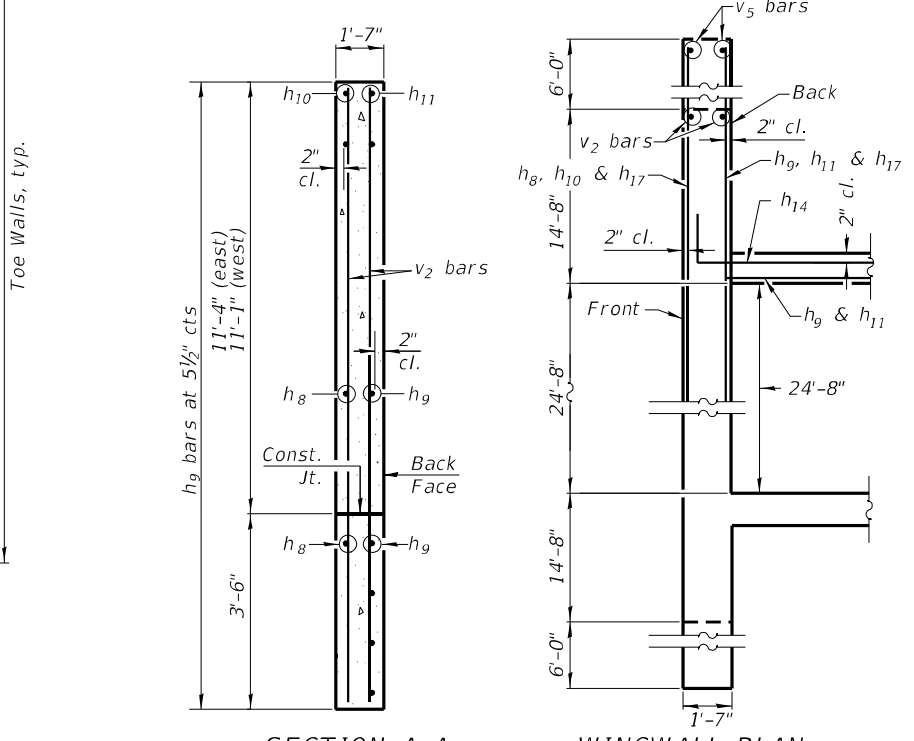
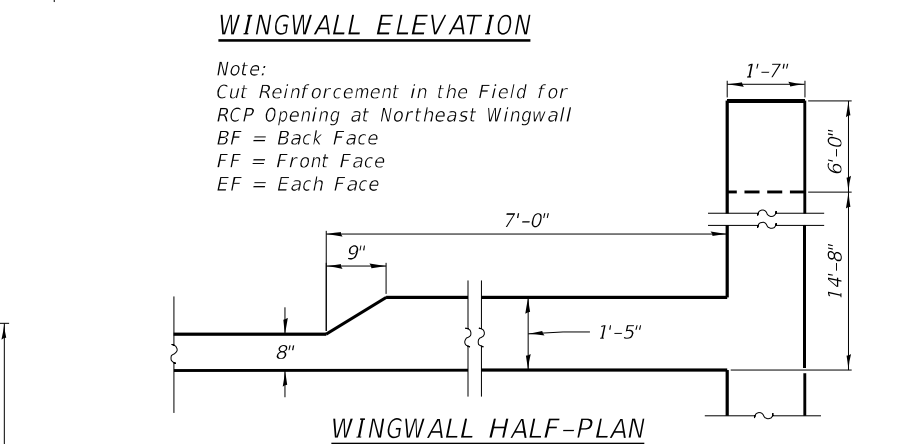
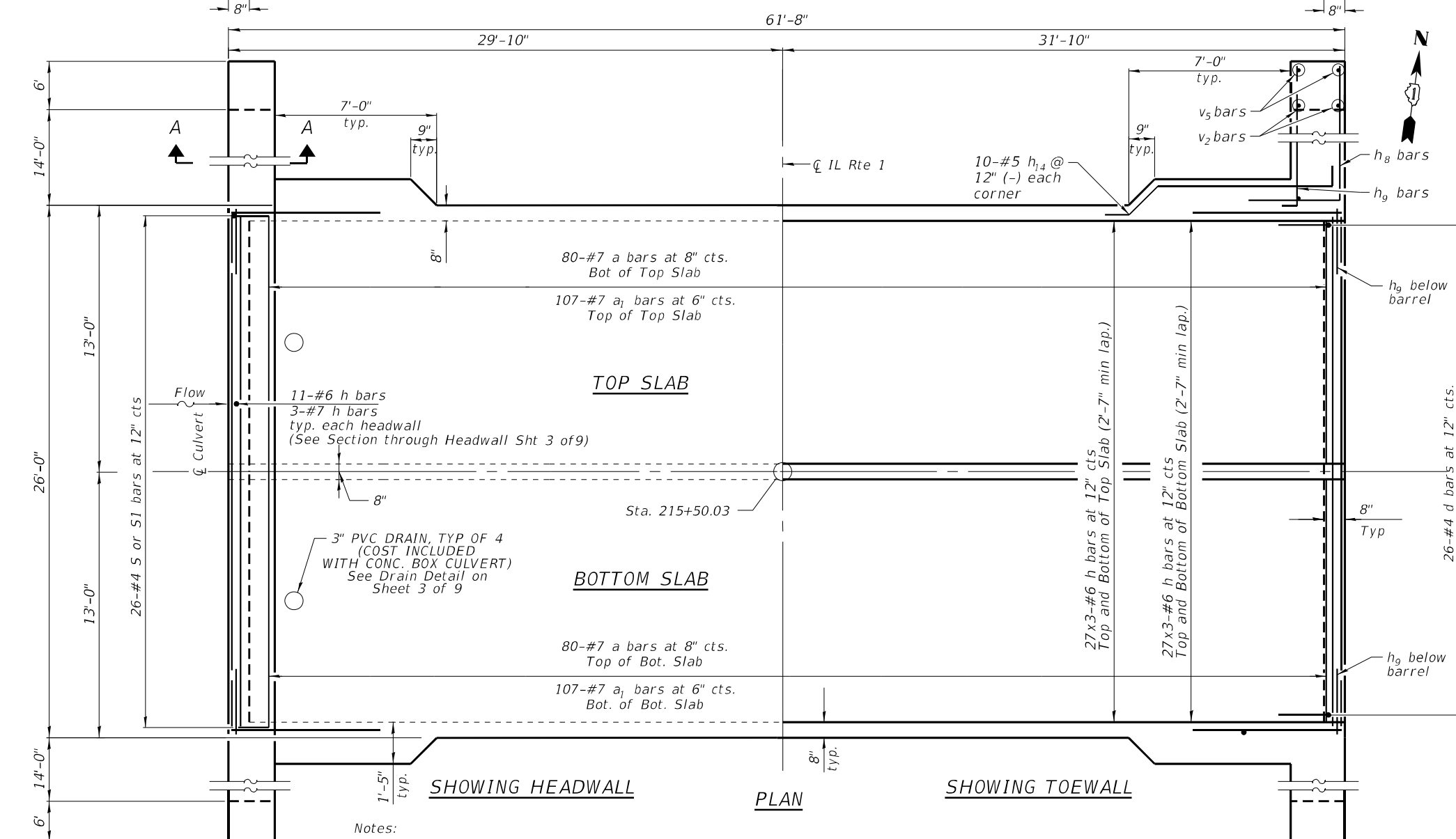
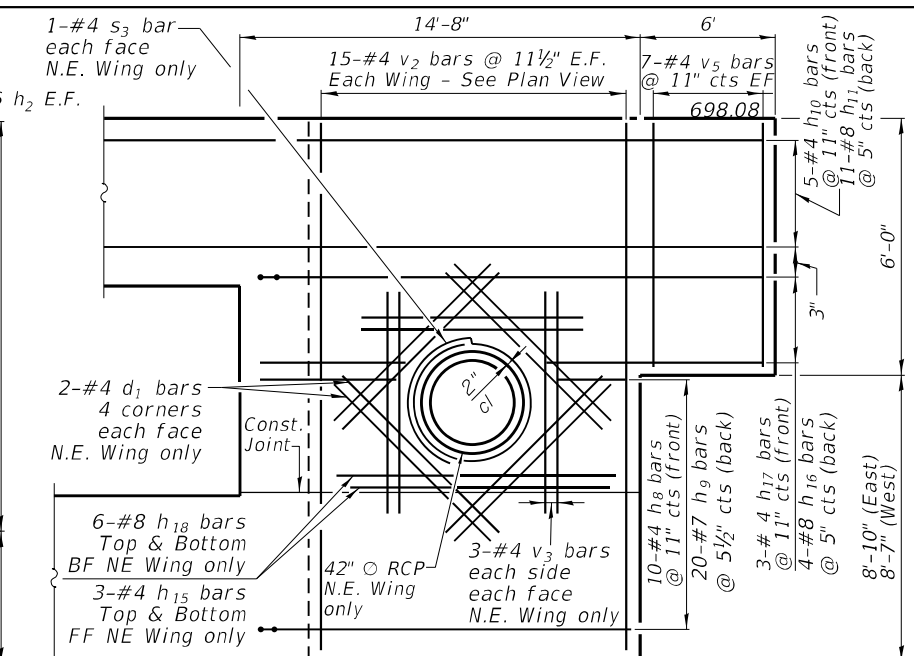
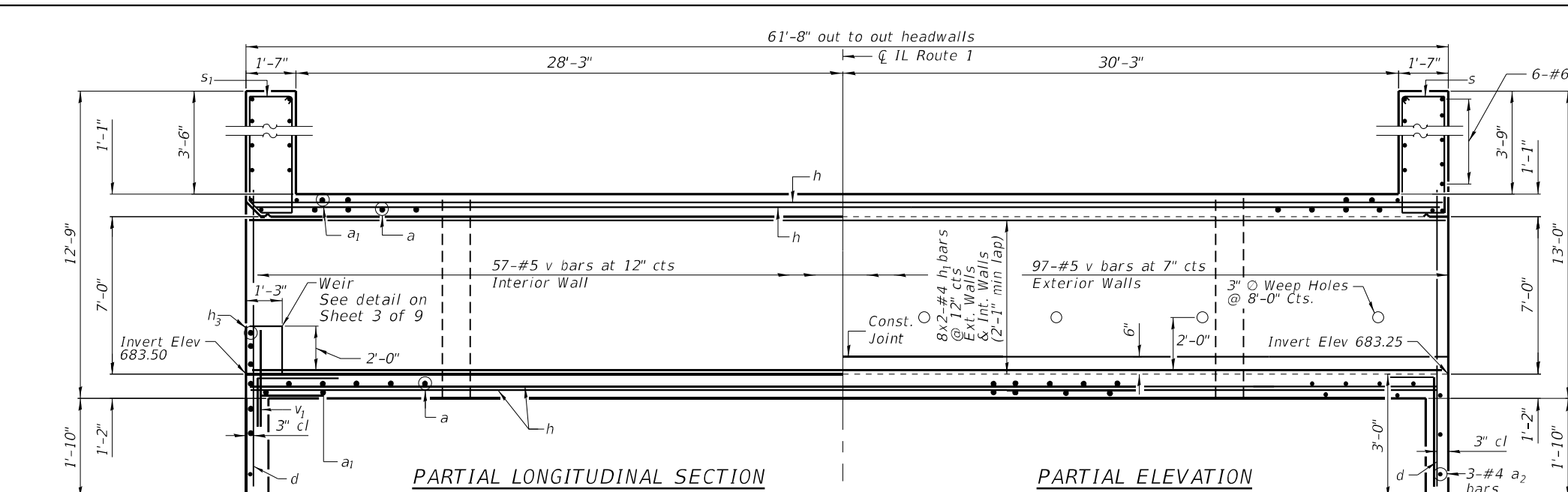
GENERAL PLAN AND ELEVATION  
SN 099-0917

SCALE: N/A SHEET 1 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 876	SECTION 10WB-B	COUNTY WILL	TOTAL SHEETS 39	SHEET NO. 21
CONTRACT NO. 62D49			ILLINOIS FED. AID PROJECT	

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 PROJECT: 10016588\_PFB\_131\_006



Notes:  
 The design fill height for this box is 3 ft. Bars indicated thus 8x2-#4 etc. indicates 8 lines of bars with 2 lengths per line.  
 A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

**CHASTAIN & ASSOCIATES LLC**  
 CONSULTING ENGINEERS

USER NAME = joang	DESIGNED - BCG	REVISED -
	DRAWN - DMW	REVISED -
	CHECKED - JMB	REVISED -
PLOT DATE = 12/9/2021	DATE - 10/15/2021	REVISED -

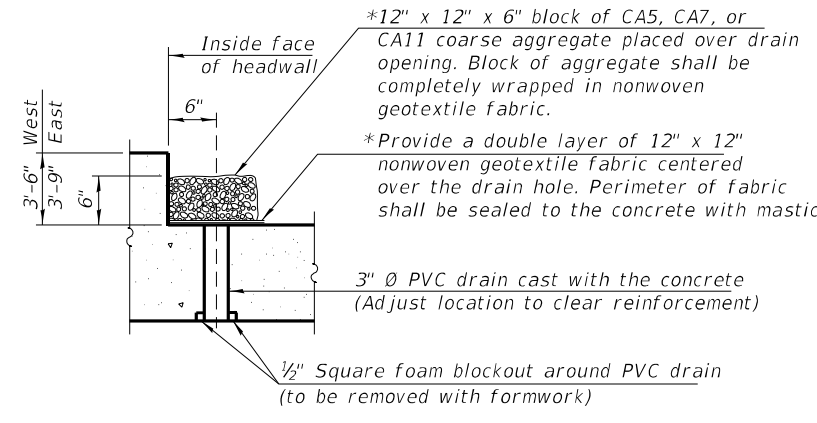
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CULVERT PLAN**  
**SN 099-0917**

SCALE: SHEET 2 OF 9 SHEETS STA. TO STA.

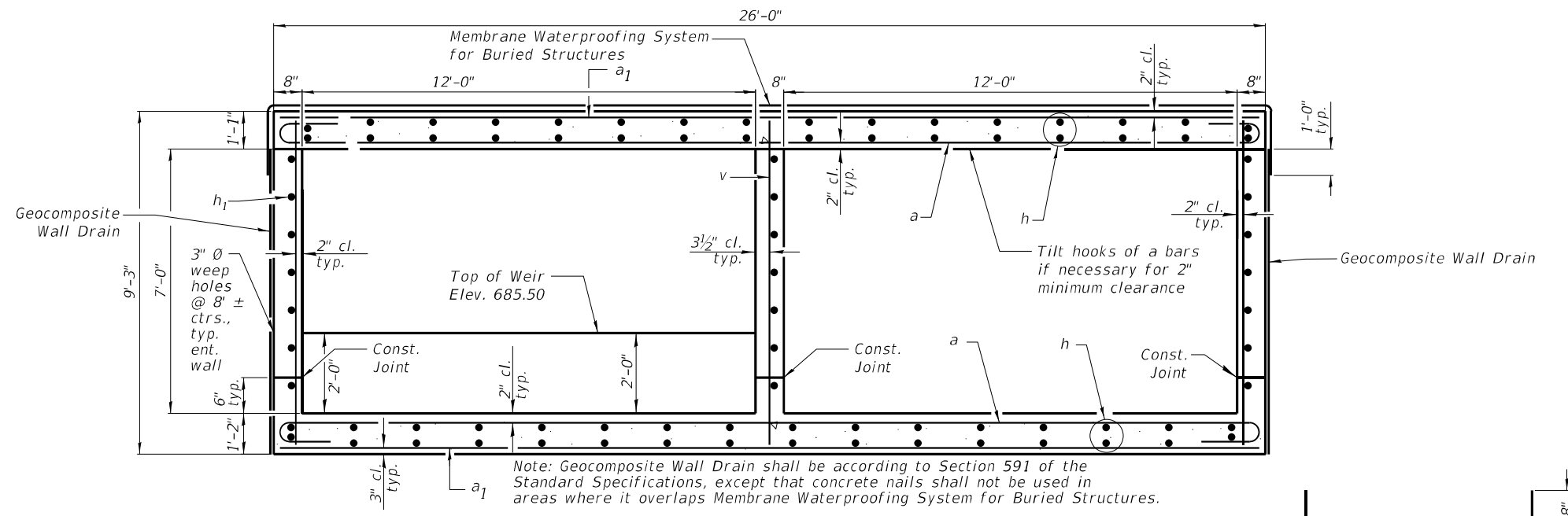
F.A.P. RTE. 876	SECTION 10WB-B	COUNTY WILL	TOTAL SHEETS 39	SHEET NO. 22
CONTRACT NO. 62D49				
ILLINOIS FED. AID PROJECT				

\*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.

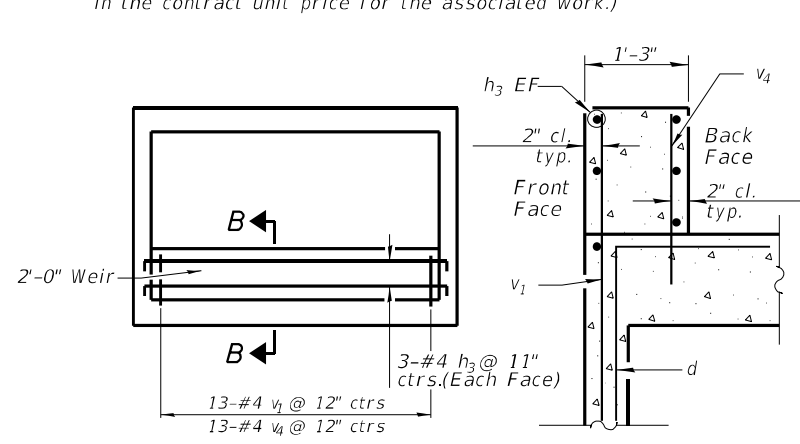
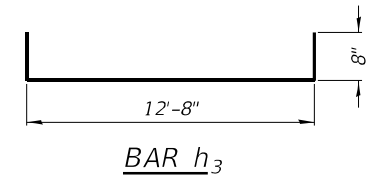


**DRAIN DETAIL**

(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.)

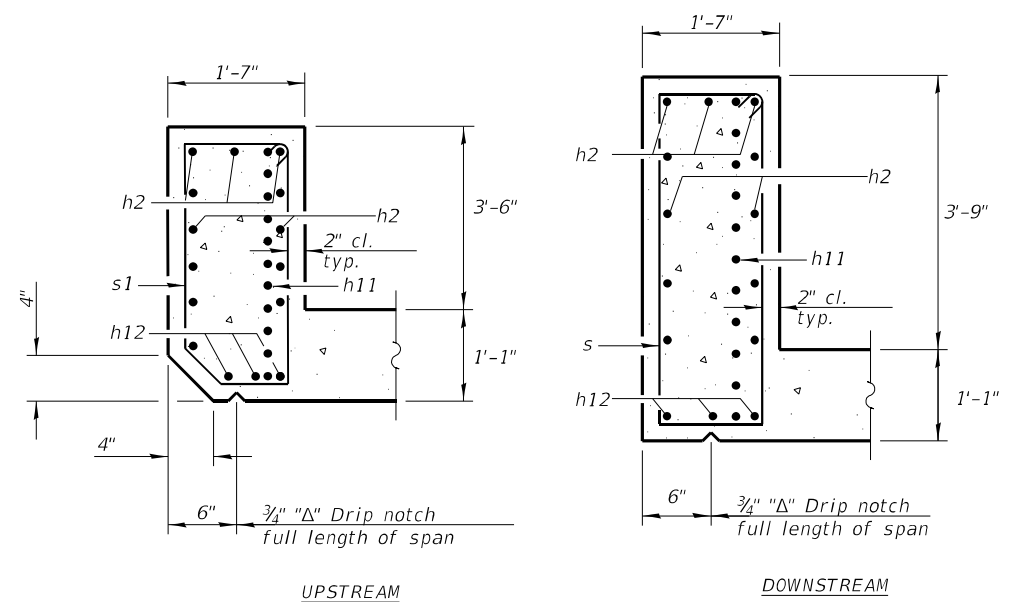
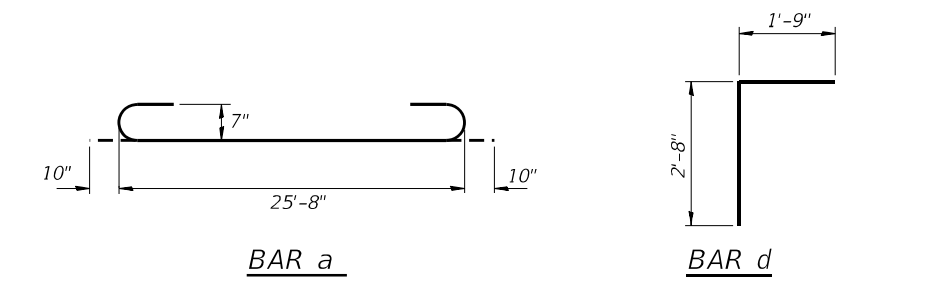


**SECTION THRU BARREL**  
(Looking West)

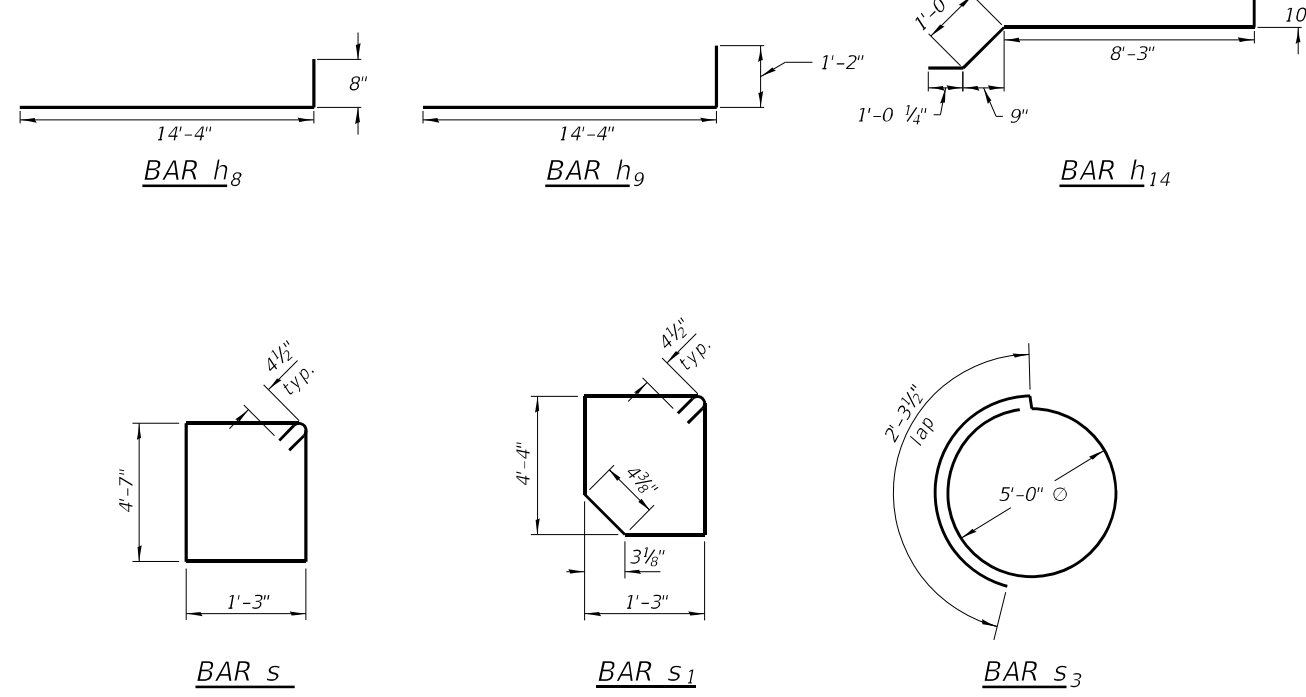


**WEIR DETAIL**

**PHOEBE NESTING SITE DETAILS**  
(Downstream End Only)



**SECTION THRU HEADWALL**



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a	160	#7	27'-4"	U	
a1	214	#7	25'-8"	U	
a2	6	#4	25'-8"	U	
d	52	#4	4'-5"	L	
d1	16	#4	10'-0"	L	
h	324	#6	20'-4"	U	
h1	48	#4	29'-1"	U	
h2	24	#6	25'-8"	U	
h3	6	#4	14'-0"	U	
h8	40	#4	15'-0"	U	
h9	80	#7	15'-6"	U	
h10	20	#4	23'-0"	U	
h11	44	#8	32'-0"	U	
h12	40	#7	17'-10"	U	
h14	40	#5	11'-2"	U	
h15	6	#4	10'-0"	U	
h16	16	#8	21'-8"	U	
h17	12	#4	21'-0"	U	
h18	12	#8	14'-0"	U	
s	26	#4	12'-5"	U	
s1	26	#4	11'-9"	U	
s3	2	#4	18'-0"	U	
v	251	#5	8'-10"	U	
v1	13	#4	4'-0"	U	
v2	120	#4	14'-3"	U	
v3	12	#4	10'-0"	U	
v4	12	#4	2'-10"	U	
v5	56	#4	5'-8"	U	
Concrete Box Culverts				Cu. Yd.	243.6
Reinforcement Bars				Pound	47,090
Membrane Waterproofing System for Buried Structures				Sq. Yd.	196.1
Geocomposite Wall Drain				Sq. Yd.	121

MODEL Path: \\... CHASTAIN & ASSOCIATES, INC. 10/15/2021



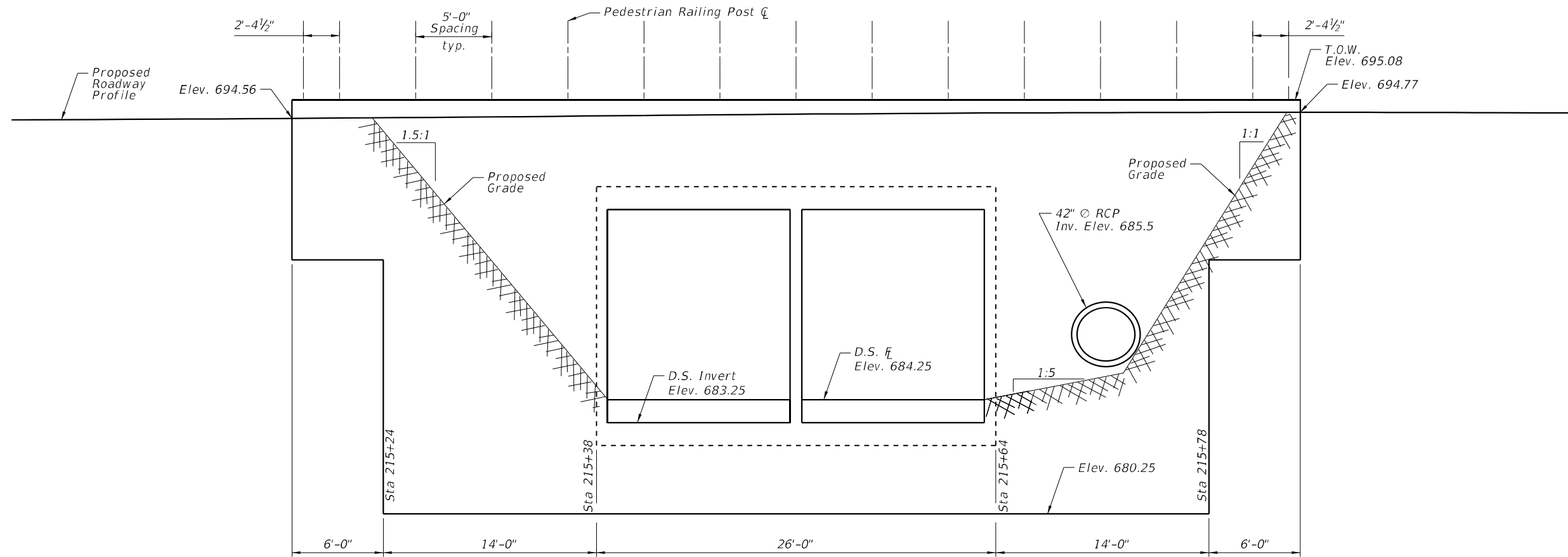
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	DRAWN - DMW	REVISED -
	CHECKED - JMB	REVISED -
PLOT DATE = 12/9/2021	DATE - 10/15/2021	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

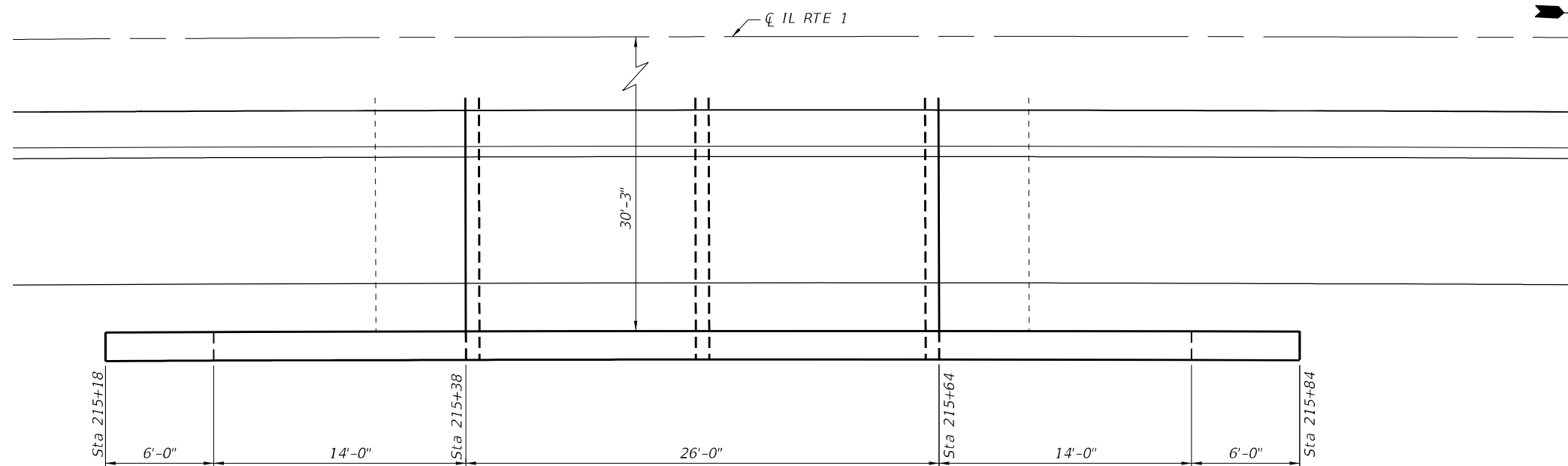
**CONCRETE BOX CULVERT DETAILS**  
**SN 099-0917**

SCALE: SHEET 3 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 876	SECTION 10WB-B	COUNTY WILL	TOTAL SHEETS 39	SHEET NO. 23
			CONTRACT NO. 62D49	
ILLINOIS FED. AID PROJECT				



**EAST END WALL ELEVATION**  
(Looking West at Face of Wall)



**PLAN - EAST END WALL**  
(Downstream end)



MODEL Path: \\... CHASTAIN & ASSOCIATES, INC. 10/15/2021 10:00 AM  
 FILE NAME: \\... 10/15/2021 10:00 AM  
 MODEL Path: \\... CHASTAIN & ASSOCIATES, INC. 10/15/2021 10:00 AM  
 FILE NAME: \\... 10/15/2021 10:00 AM



USER NAME = dwozniarski	DESIGNED - BCG	REVISED -
	DRAWN - DMW	REVISED -
	CHECKED - JMB	REVISED -
PLOT DATE = 12/9/2021	DATE - 10/15/2021	REVISED -

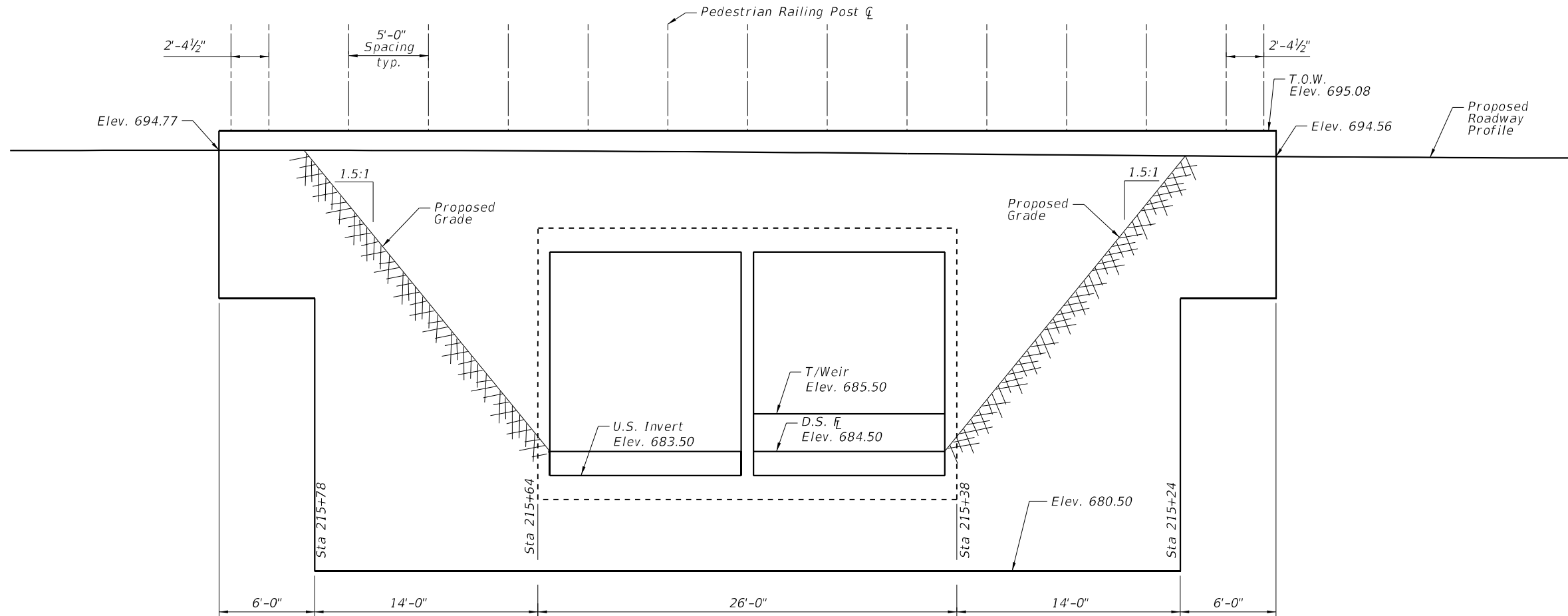
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EAST HEADWALL DETAILS  
SN 099-0917

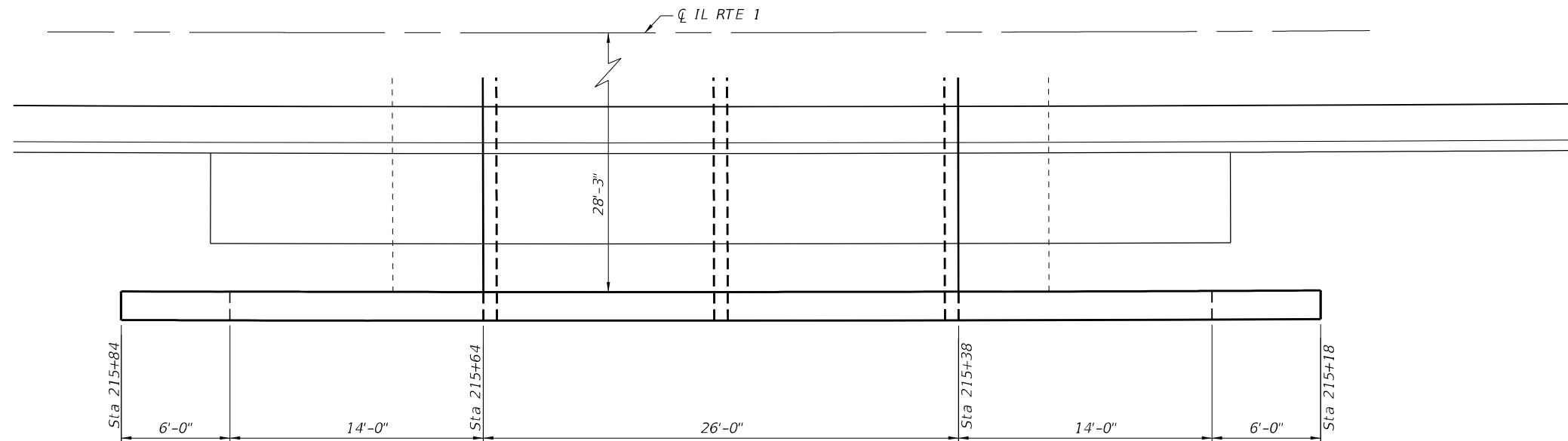
SCALE: SHEET 4 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	24
SN 099-0917			CONTRACT NO. 62D49	
ILLINOIS FED. AID PROJECT				





**WEST END WALL ELEVATION**  
(Looking East at Face of Wall)



**PLAN - WEST END WALL**  
(Upstream end)

MODEL Path: \\...  
 FILE Name: \\...  
 12/9/2021 10:15:28 AM



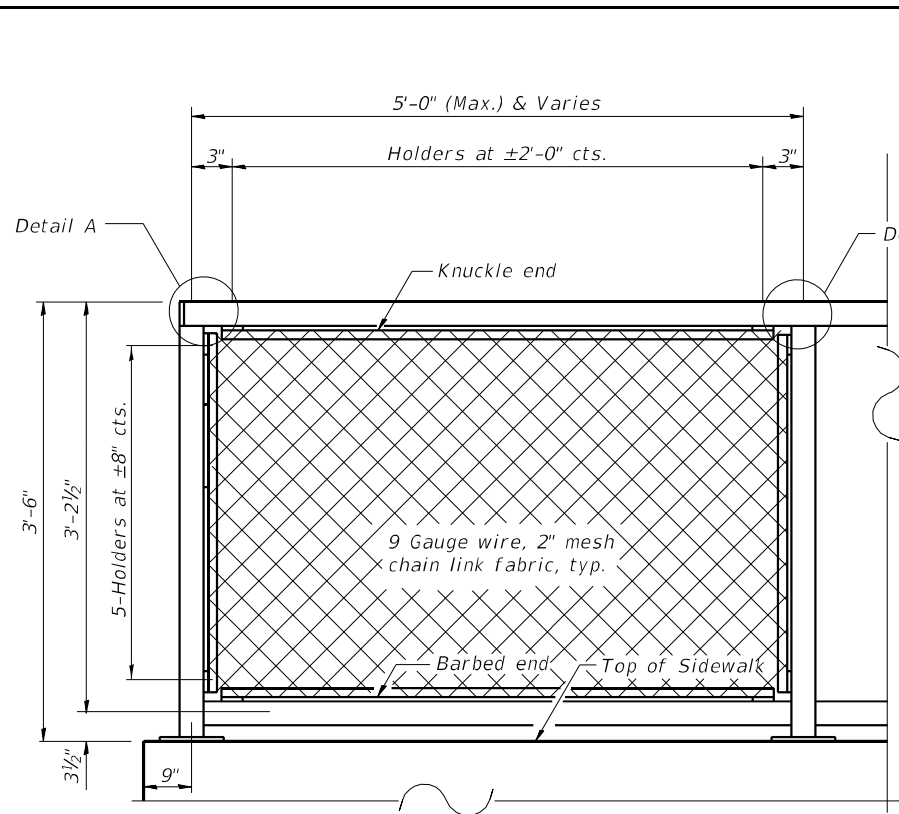
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	DRAWN - DMW	REVISED -
	CHECKED - JMB	REVISED -
PLOT DATE = 12/9/2021	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

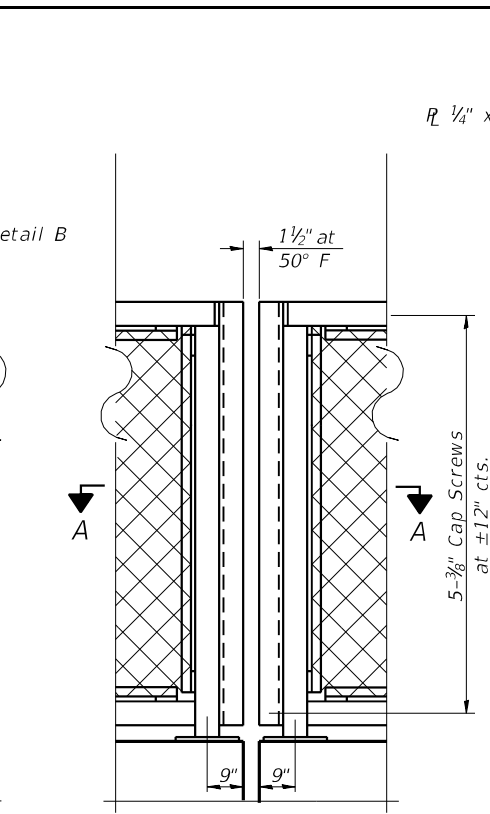
WEST HEADWALL DETAILS  
SN 099-0917

SCALE: SHEET 5 OF 9 SHEETS STA. TO STA.

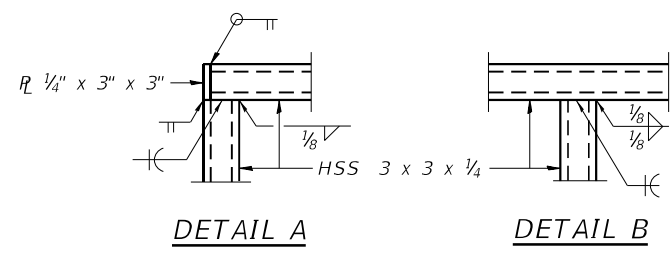
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SN 099-0917			CONTRACT NO. 62D49	
ILLINOIS FED. AID PROJECT				



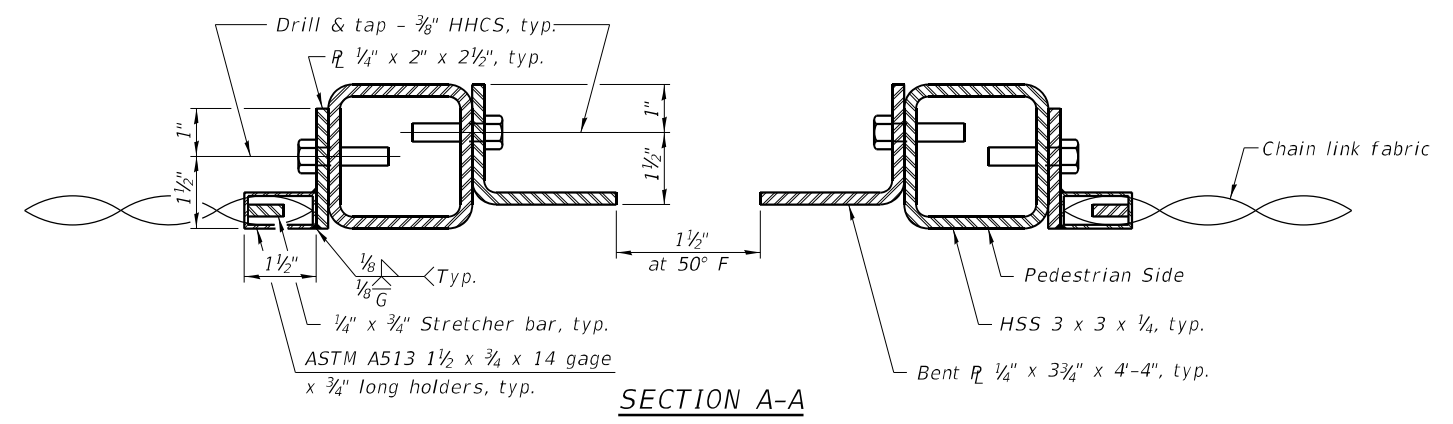
PEDESTRIAN RAILING



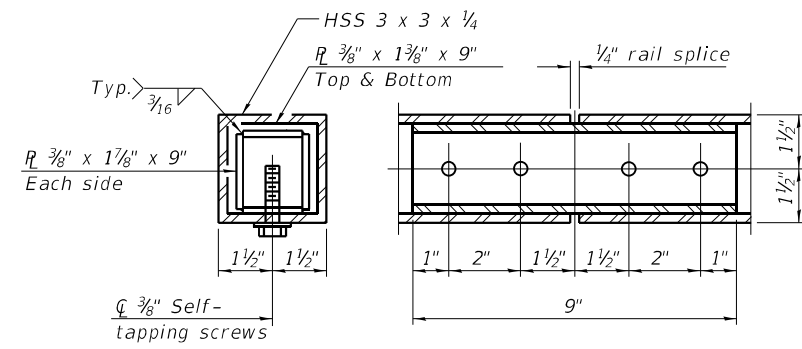
PEDESTRIAN RAILING (At Bonded Construction Joints)



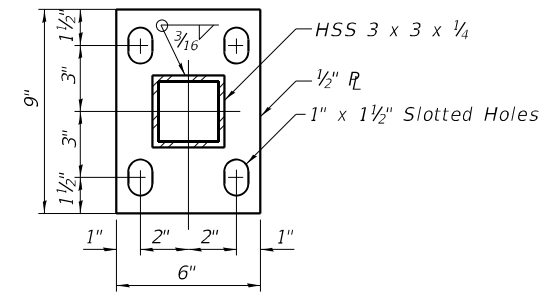
DETAIL A DETAIL B



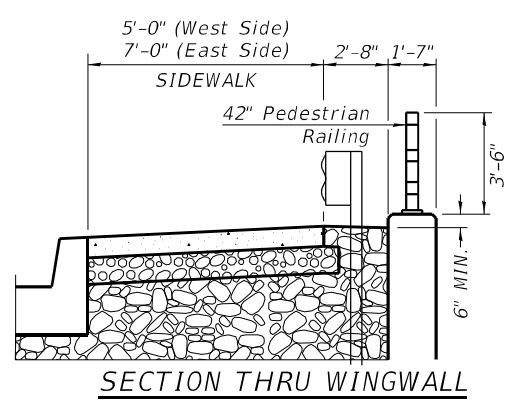
SECTION A-A



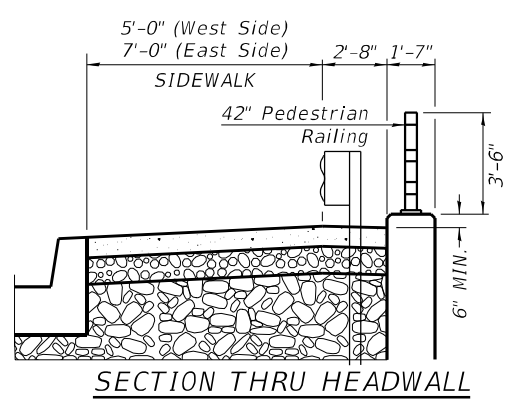
RAIL SPLICE



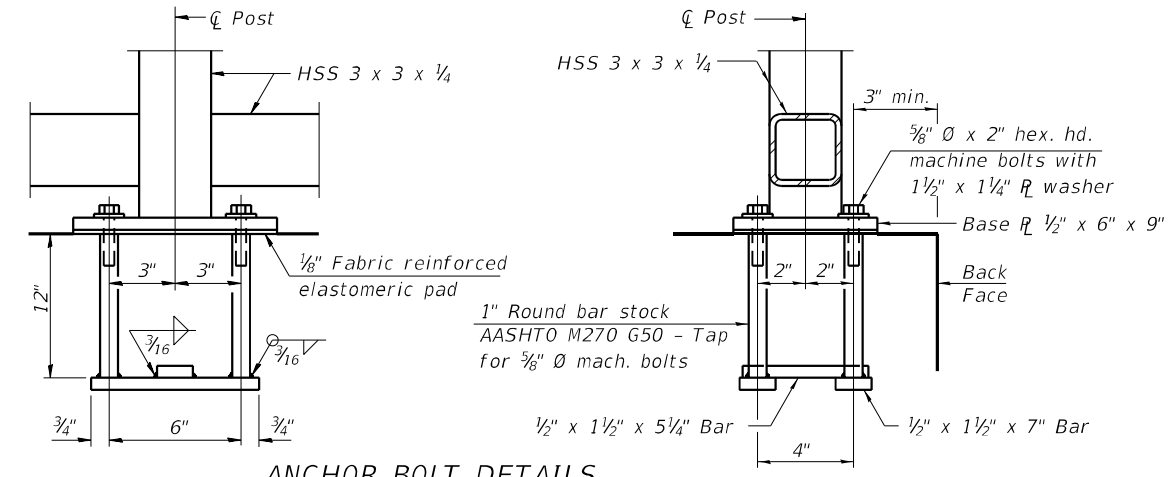
BASE PLATE



SECTION THRU WINGWALL



SECTION THRU HEADWALL



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" Ø anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Pedestrian Railing	Foot	132

MODEL Path: CHASTAIN & ASSOCIATES, INC. I:\Projects\10016588\_PTB\101\_006\Work Order #7\_IL\_1\_006\CADD\Structural\1016588\_PTB\_Railing.dwg



USER NAME = joang
PLOT DATE = 12/9/2021

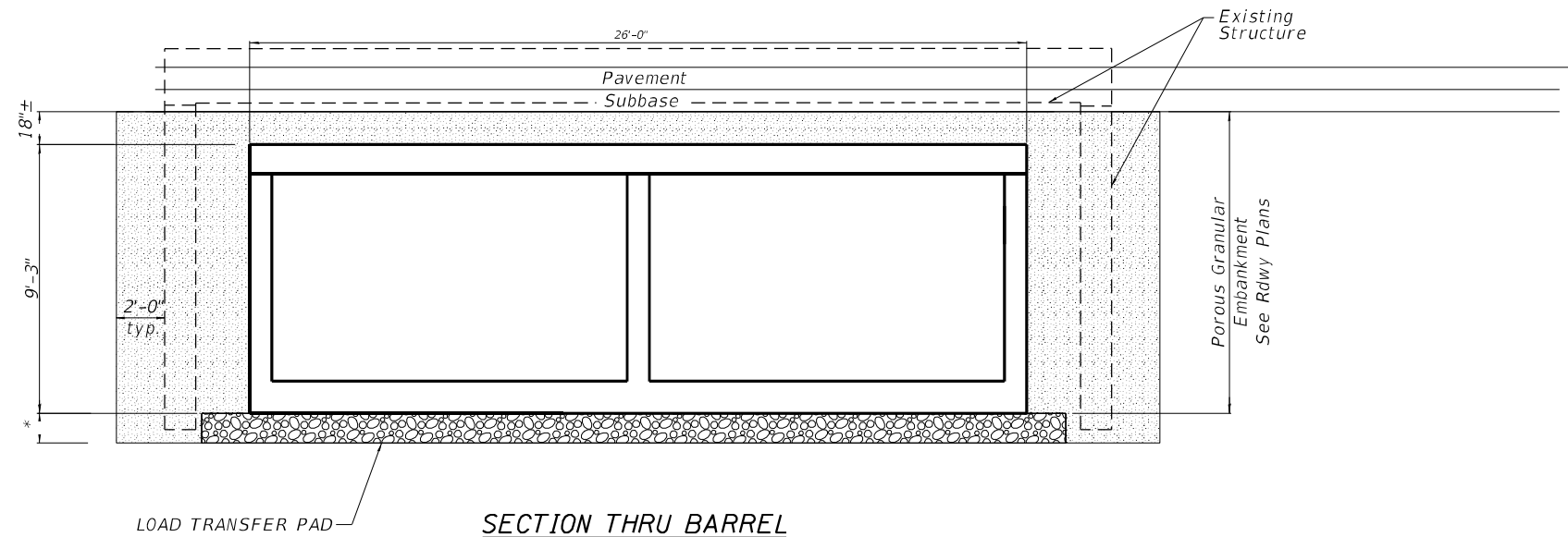
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DRAWN - RLK/M	REvised -
CHECKED - JMB/AB	REvised -
DATE - 10/15/2021	REvised -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PEDESTRIAN RAILING DETAILS  
SN 099-0917

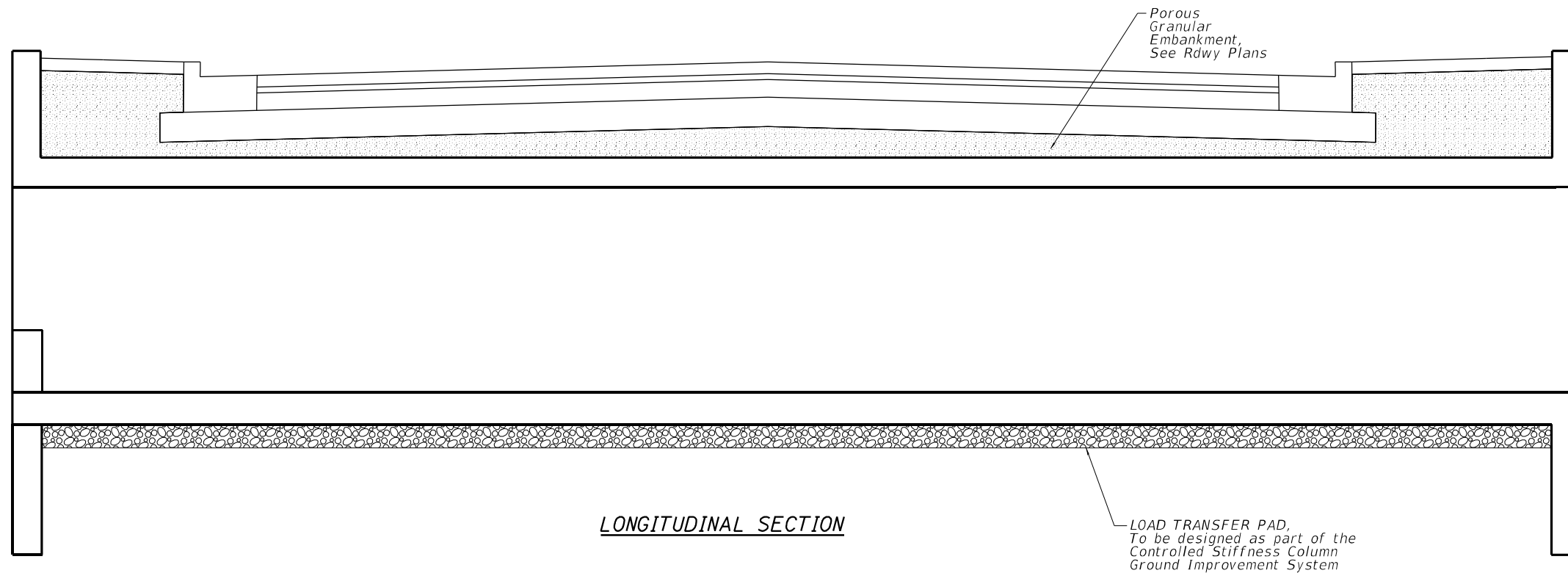
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F.A.P. RTE. 876	SECTION 10WB-B	COUNTY WILL	TOTAL SHEETS 39	SHEET NO. 26
SN 049-0589			CONTRACT NO. 62D49	
ILLINOIS FED. AID PROJECT				



**SECTION THRU BARREL**

\* To be designed as part of the  
Controlled Stiffness Column  
Ground Improvement System



**LONGITUDINAL SECTION**

LOAD TRANSFER PAD,  
To be designed as part of the  
Controlled Stiffness Column  
Ground Improvement System

**Notes:**

1. Except as specified in this detail, the placement and compaction of backfill shall be in accordance with Article 502.10 of the Standard Specifications.
2. Porous granular embankment shall be placed in accordance with Section 207 of the Standard Specifications.

**DETAIL OF EXCAVATION AND BACKFILL FOR BOX CULVERTS**

MODEL: Default  
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USER NAME = joang	DESIGNED - JKP	REVISED -
	DRAWN - DMW	REVISED -
/ in.	CHECKED - SPF	REVISED -
PLOT DATE = 12/9/2021	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXCAVATION AND BACKFILL DETAIL  
SN 099-0917

SCALE: SHEET 7 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	27
CONTRACT NO. 62D49				
ILLINOIS FED. AID PROJECT				

ROUTE IL-1 DESCRIPTION IL Route 1 over Deer Creek, Crete, Illinois LOGGED BY M.W.  
SECTION FAP 876 LOCATION Crete, Illinois (19' N of Bridge Abutment)  
COUNTY Will DRILLING METHOD 3 1/4" Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	D (ft)	B (/6")	U (tsf)	M (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	D (ft)	B (/6")	U (tsf)	M (%)	
099-0076		B-01		46' East of CL	694.13	693.30				685.70		N/A	N/A	N/A			673.13				
Approximately 10 inches of TOPSOIL: Brown and black clay with sand and gravel																					
Medium stiff, black CLAY, organics present (A-7-6)																					
Stiff, brownish-gray CLAY (A-7-6)																					
Stiff, brownish-gray SILTY CLAY LOAM (A-7-6)																					
Medium stiff, brown and gray CLAY, organics present (A-7-6)																					
Stiff, brownish-gray CLAY (A-7-6)																					
Soft, gray CLAY, organics present (A-7-6)																					
Stiff, brownish-gray silty CLAY LOAM (A-7-6)																					
Very soft, dark gray SILTY CLAY (A-7-6)																					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

ROUTE IL-1 DESCRIPTION IL Route 1 over Deer Creek, Crete, Illinois LOGGED BY M.W.  
SECTION FAP 876 LOCATION Crete, Illinois (19' N of Bridge Abutment)  
COUNTY Will DRILLING METHOD 3 1/4" Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	D (ft)	B (/6")	U (tsf)	M (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	D (ft)	B (/6")	U (tsf)	M (%)
099-0076		B-01		46' East of CL	694.13					685.70		N/A	N/A	N/A						
End of boring at approximately 40 feet below existing grade. No free groundwater encountered during drilling operations.																				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

PROPOSED SN 099-0917  
PROPOSED CONCRETE BOX CULVERT STA - 215+50.03  
BORING LOCATION - STA 215+85

MODEL Path: C:\Users\jjoang\OneDrive\Work\099\099-0917\101101101\101101101\099-0917-101101101\101101101\101101101\101101101.dgn

ROUTE IL-1 DESCRIPTION IL Route 1 over Deer Creek, Crete, Illinois LOGGED BY M.W.

SECTION FAP 876 LOCATION Crete, Illinois (30.5' S of Bridge Abutment)

COUNTY Will DRILLING METHOD 3 1/4" Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Station	D E P T H S	B L O W S	U C S Qu	M O I S T	Surface Water Elev. Stream Bed Elev.	D E P T H S	B L O W S	U C S Qu	M O I S T
BORING NO. Station Offset Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
099-0076 B-02 4.5' West of CL 693.01					685.70 ft				
Approximately 11 inches of ASPHALT	692.09								
Approximately 10 inches of CONCRETE	691.26								
Medium dense, black, brown and gray GRAVELLY, SANDY LOAM Possible fill (A-2-7)	689.51	13 17 6		6					
Medium stiff, brown CLAY LOAM (A-6)		2 1 -5	1.5 P	20					
Medium stiff, dark gray CLAY (A-7-5)	687.01	2 2 3	0.5 B	29					
Medium stiff, brown and gray CLAY LOAM (A-6)	684.51	2 2	1.8 P	25					
8" of black SANDY CLAY starting near 9' 8"		-10	3						
Soft, brown and dark gray CLAY, organics present (A-6)	682.01		0.2 B	38					
Stiff, brown and gray SILTY CLAY LOAM (A-6)	659.51	0 1 -15	1.6 B	40					
Very soft, dark gray SILTY CLAY (A-7-5)	677.01	0 0 0	0.7 B	72					
		0 0	0.7 B	57					
	653.01	-20	0						

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

ROUTE IL-1 DESCRIPTION IL Route 1 over Deer Creek, Crete, Illinois LOGGED BY M.W.

SECTION FAP 876 LOCATION Crete, Illinois (30.5' S of Bridge Abutment)

COUNTY Will DRILLING METHOD 3 1/4" Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Station	D E P T H S	B L O W S	U C S Qu	M O I S T	Surface Water Elev. Stream Bed Elev.	D E P T H S	B L O W S	U C S Qu	M O I S T
BORING NO. Station Offset Ground Surface Elev.	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
099-0076 B-02 4.5' West of CL 693.01					685.70 ft				
End of boring at approximately 40 feet below existing grade.									

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

PROPOSED SN 099-0917  
PROPOSED CONCRETE BOX CULVERT STA - 215+50.03  
BORING LOCATION - STA 215+04

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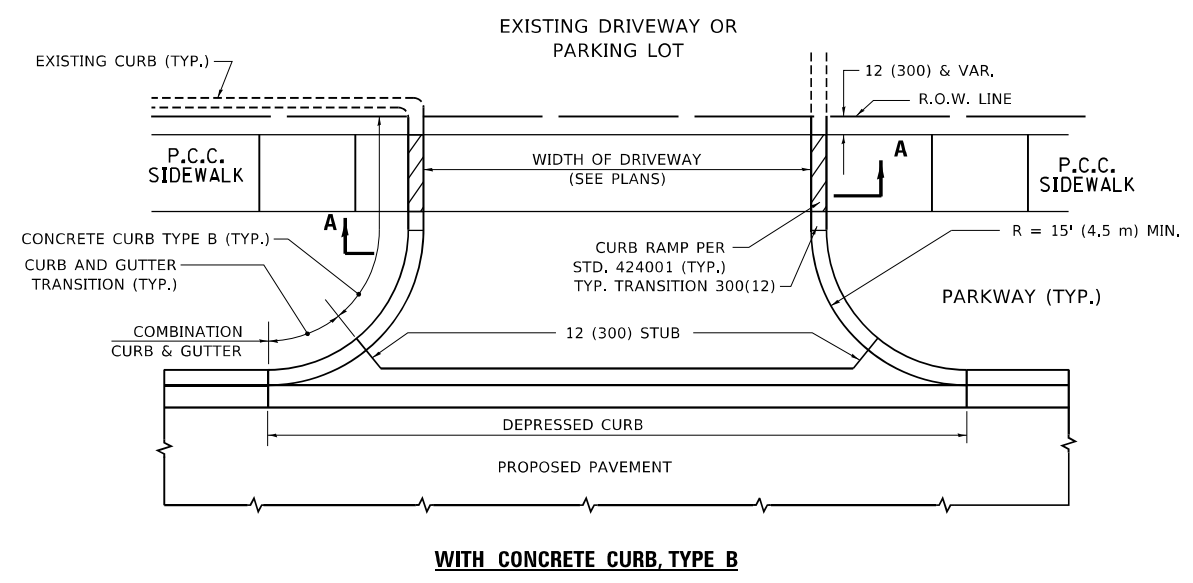
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	DRAWN - DMW	REVISED -
	CHECKED - SPF	REVISED -
PLOT DATE = 12/9/2021	DATE - 10/15/2021	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

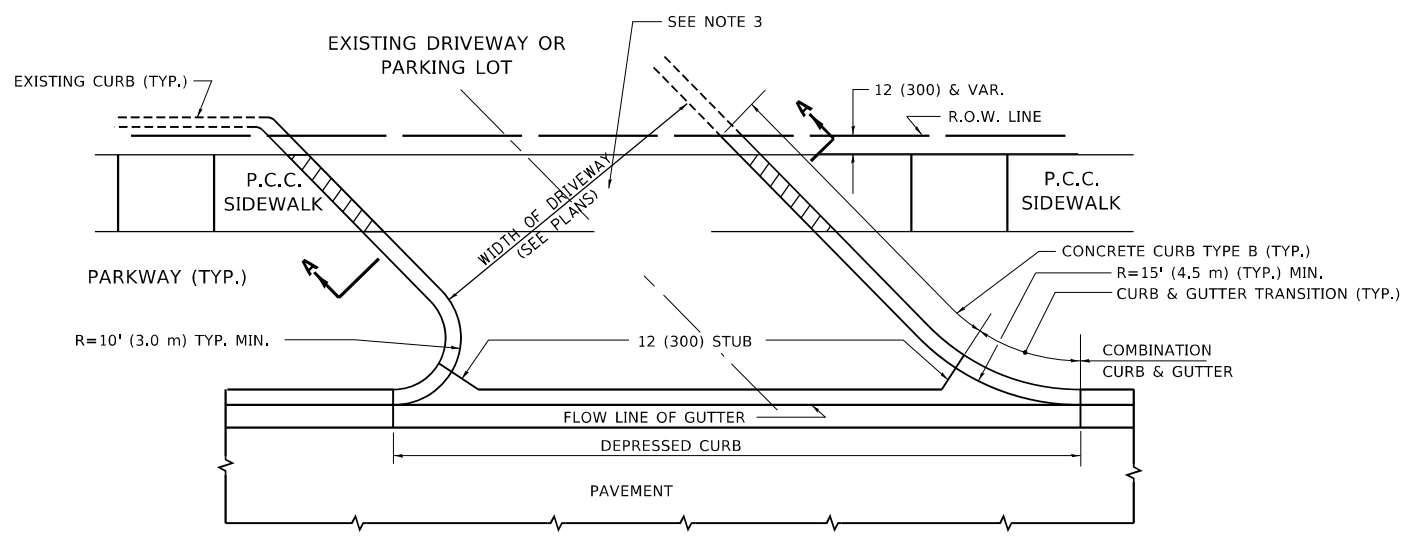
SOIL BORING LOGS  
SN 099-0917

SCALE: SHEET 9 OF 9 SHEETS STA. TO STA.

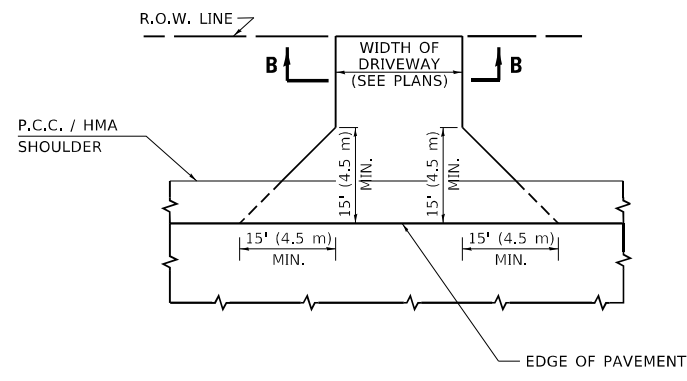
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	29
CONTRACT NO. 62D49				
ILLINOIS FED. AID PROJECT				



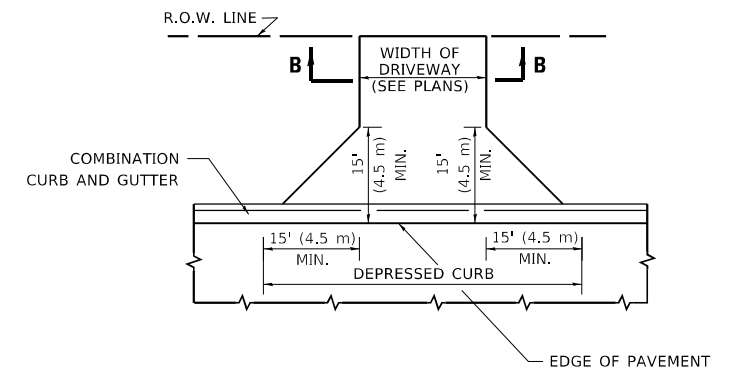
**WITH CONCRETE CURB, TYPE B**



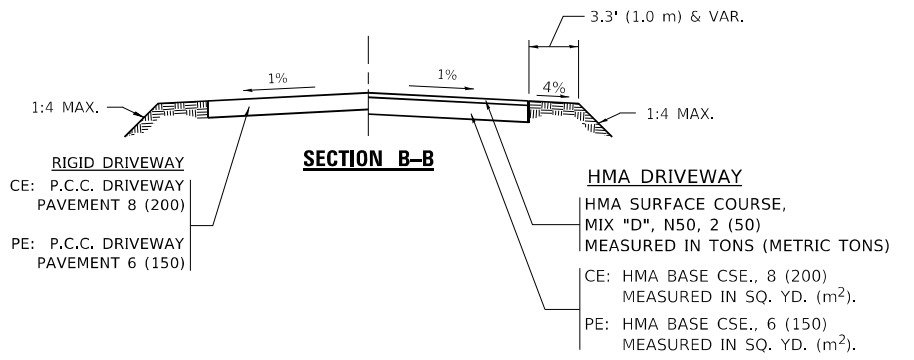
**WITH CONCRETE CURB, TYPE B**



**ADJACENT TO P.C.C./HMA SHOULDER**



**ADJACENT TO CURB AND GUTTER**



**GENERAL NOTES:**

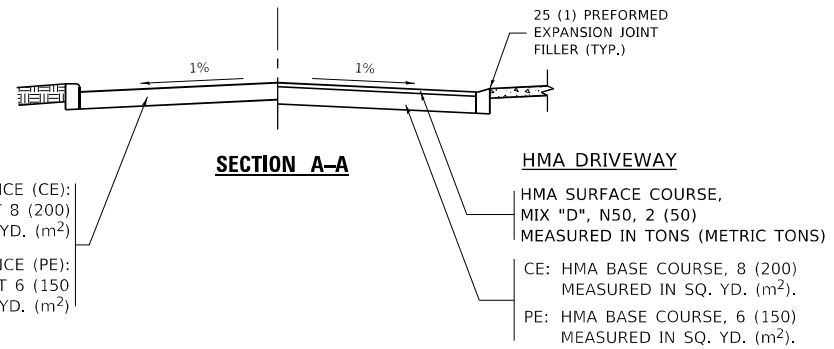
DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE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

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

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

**RURAL FIELD ENTRANCE (FE)**

HMA SURFACE COURSE, MIX "D", N50, 2 (50) MEASURED IN TONS (METRIC TONS)  
 CE: HMA BASE COURSE, 8 (200) MEASURED IN SQ. YD. (m²).  
 PE: HMA BASE COURSE, 6 (150) MEASURED IN SQ. YD. (m²).  
 AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m²).



**RIGID DRIVEWAY**  
 COMMERCIAL ENTRANCE (CE): P.C.C. DRIVEWAY PAVEMENT 8 (200) MEASURED IN SQ. YD. (m²)  
 NON-COMMERCIAL ENTRANCE (PE): P.C.C. DRIVEWAY PAVEMENT 6 (150) MEASURED IN SQ. YD. (m²)

**HMA DRIVEWAY**  
 HMA SURFACE COURSE, MIX "D", N50, 2 (50) MEASURED IN TONS (METRIC TONS)  
 CE: HMA BASE COURSE, 8 (200) MEASURED IN SQ. YD. (m²).  
 PE: HMA BASE COURSE, 6 (150) MEASURED IN SQ. YD. (m²).

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

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

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

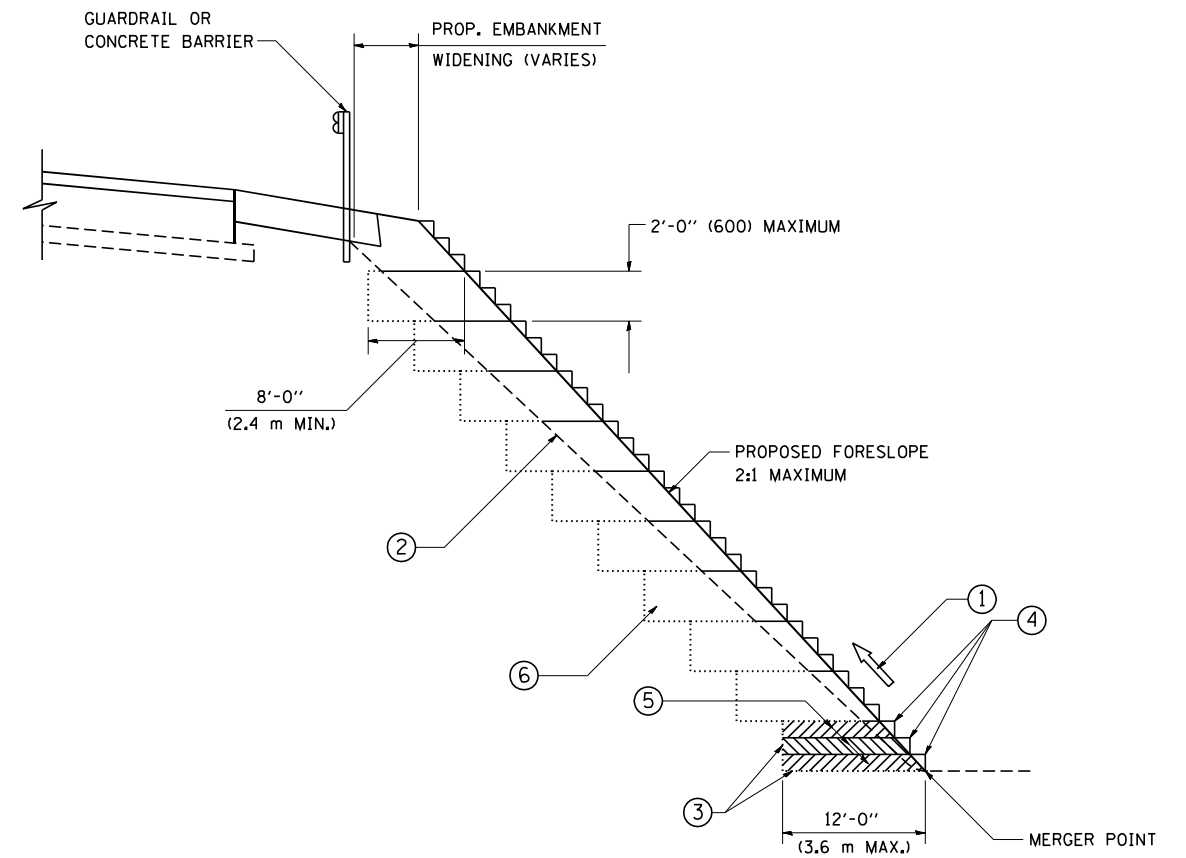
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USER NAME = footemj	DESIGNED - R. SHAH	REVISED - P. LoFLUER 04-15-03
PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED - R. BORO 01-01-07
PLOT DATE = 3/27/2019	CHECKED -	REVISED - R. BORO 06-11-08
	DATE - 11-04-95	REVISED - R. BORO 09-06-11

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB &amp; EDGE OF SHOULDER ≥ 15'(4.5m)</b>			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	

F.A.P. RTE. 876	SECTION 10WB-B	COUNTY WILL	TOTAL SHEETS 39	SHEET NO. 30
BD400-01 (BD-01)		CONTRACT NO. 62D49		
ILLINOIS FED. AID PROJECT				



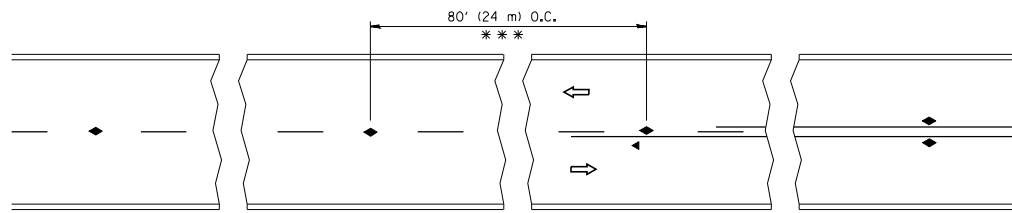
TYPICAL BENCHING DETAIL  
FOR EMBANKMENT

**NOTES:**

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

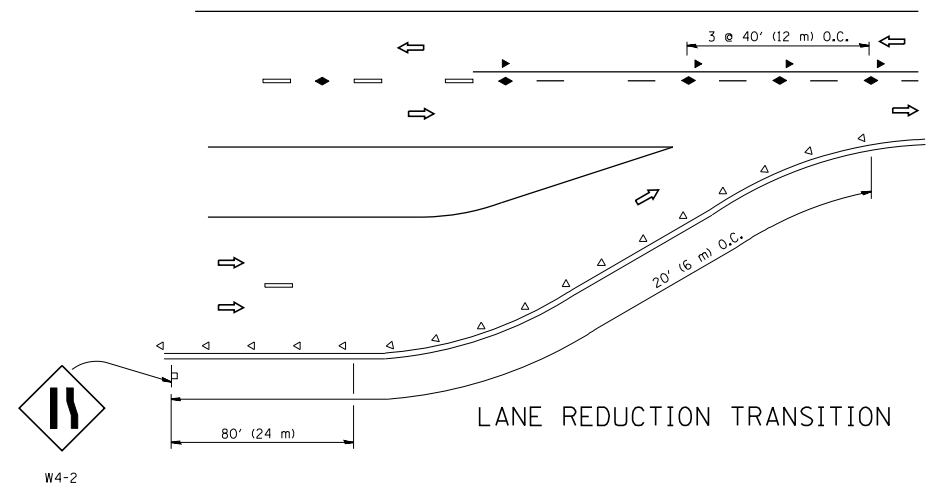
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\bd51.dgn	USER NAME = gaglionobt	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>BENCHING DETAIL</b> <b>FOR EMBANKMENT WIDENING</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	CHECKED - S.E.B.	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	876	10WB-B	WILL
PLOT DATE = 1/4/2008	DATE - 06-16-04	REVISED -						<b>BD-51</b>		CONTRACT NO. 62D49	
FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT											

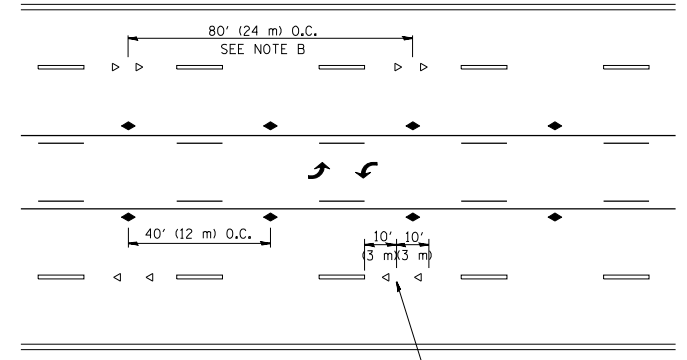


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

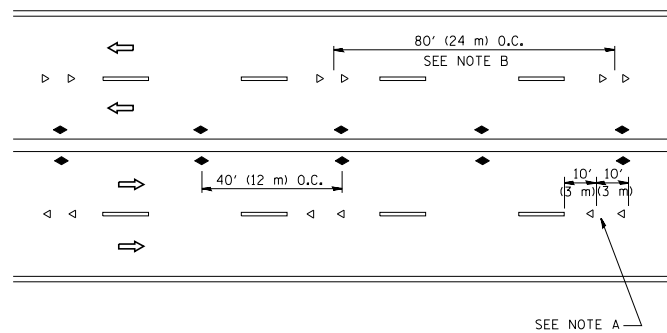
TWO-LANE/TWO-WAY



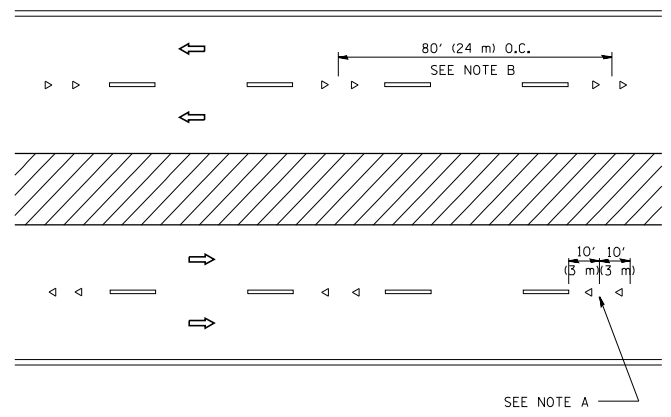
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

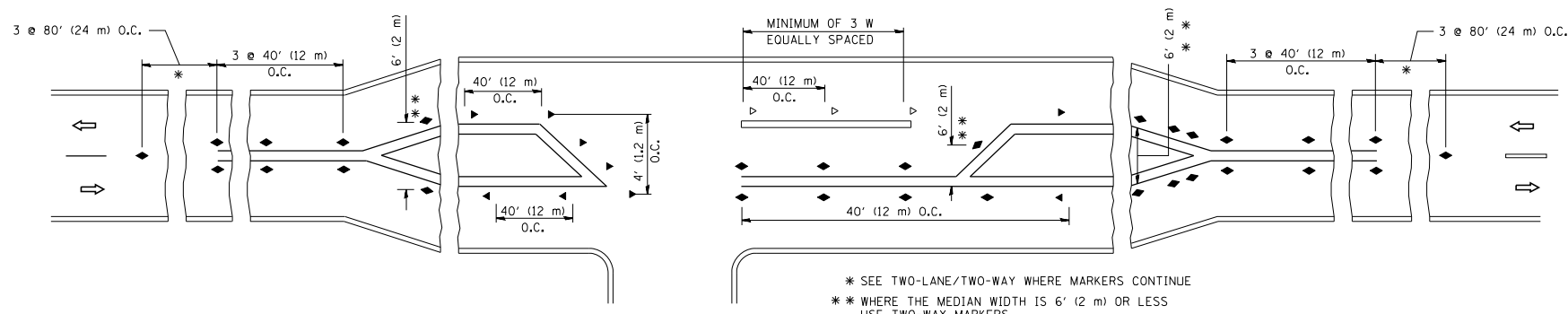
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

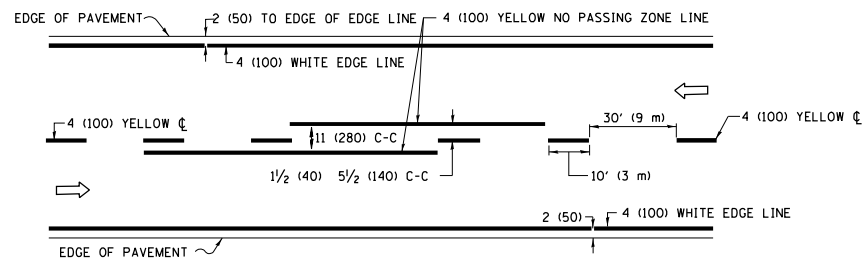
FILE NAME =	USER NAME = lryso	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
cr:\pw\work\p\dot\lryso\d0108315\tc11.dgn		DRAWN -	REVISED - T. RAMMACHER 03-12-99
		PLOT SCALE = 50.000' / IN.	REVISED - T. RAMMACHER 01-06-00
		PLOT DATE = 3/2/2011	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

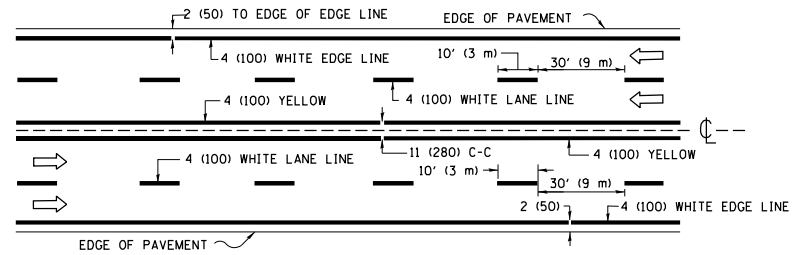
TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	32
TC-11		CONTRACT NO. 62D49		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

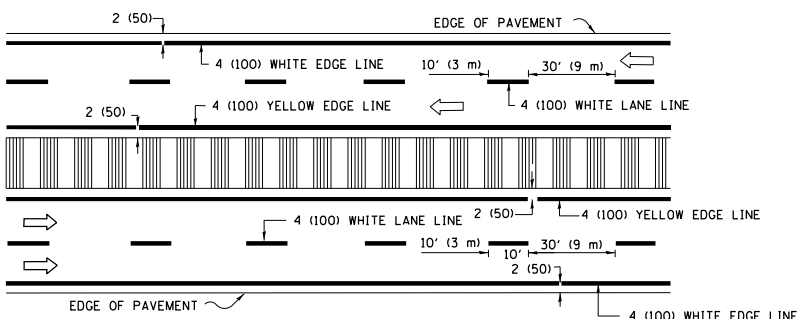




**2-LANE ROADWAY**

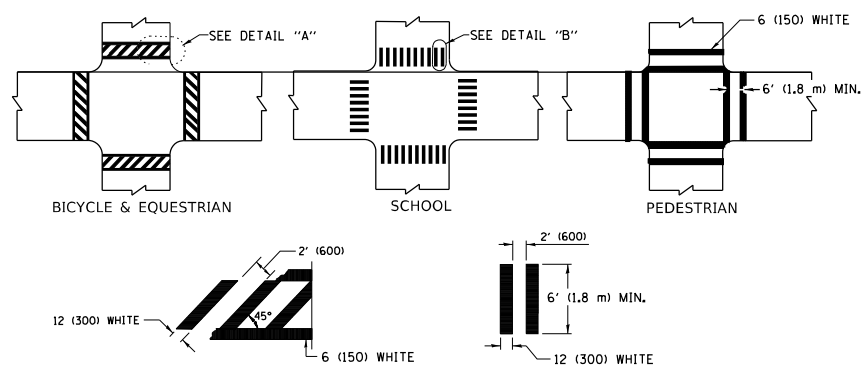


**MULTI-LANE UNDIVIDED**



**MULTI-LANE DIVIDED WITH MEDIAN**

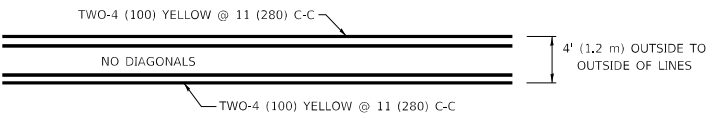
**TYPICAL LANE AND EDGE LINE MARKING**



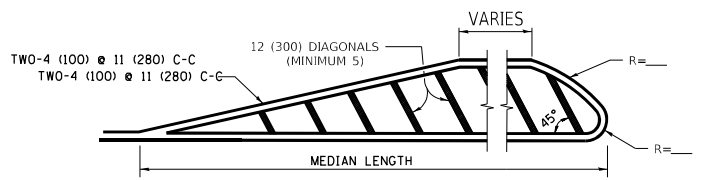
**DETAIL "A"**      **DETAIL "B"**

**TYPICAL CROSSWALK MARKING**

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

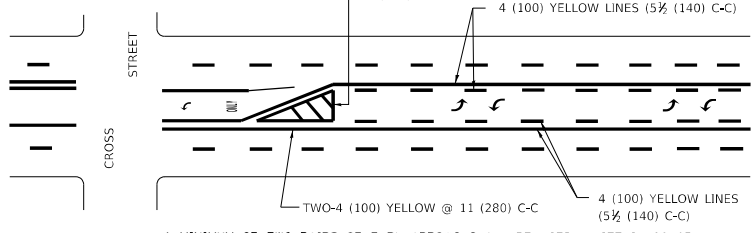


**4' (1.2 m) WIDE MEDIANS ONLY**



**MEDIANS OVER 4' (1.2 m) WIDE**

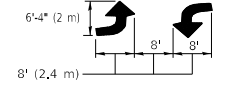
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))  
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)  
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



**MEDIAN WITH TWO-WAY LEFT TURN LANE**

**TYPICAL PAINTED MEDIAN MARKING**

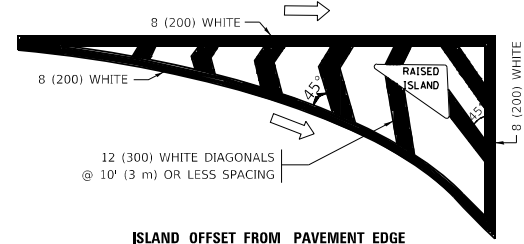
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



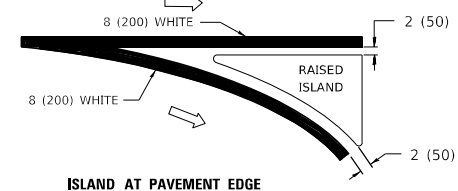
**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  
AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)  
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

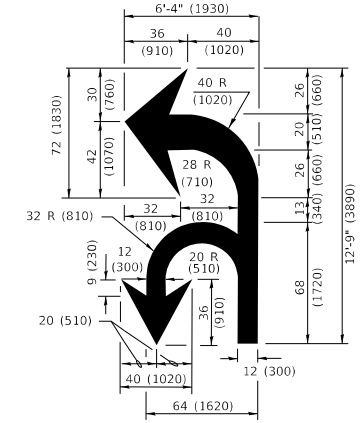


**ISLAND OFFSET FROM PAVEMENT EDGE**

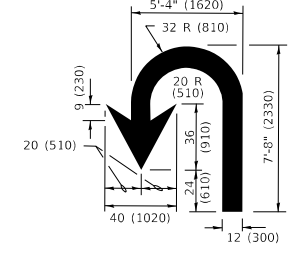


**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**



**COMBINATION LEFT AND U-TURN**



**U-TURN**

**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES "RR" IS 8' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

MODEL: D:\default...  
FILE NAME: p:\u0008\EBID\ITEC...  
PROJECTS:\DHS\422-234\CD\Drawings\CD\Sheet\TC13.dwg

USER NAME	DESIGNED	REVISION
= footemj	- EVERS	- C. JUCIUS 09-09-09
	-	- C. JUCIUS 07-01-13
PLOT SCALE = 50.0000" / in.	CHECKED -	REVISION - C. JUCIUS 12-21-15
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISION - C. JUCIUS 04-12-16


**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**


**DISTRICT ONE TYPICAL PAVEMENT MARKINGS**


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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	33
<b>TC-13</b>		CONTRACT NO. 62D49		
		ILLINOIS	FED. AID PROJECT	


**ROUTE MARKERS**


 FOR U.S. ROUTES  
M1-40-2424

 FOR ILLINOIS ROUTES  
M1-50-2424

 R,R, UNMARKED ROUTES  
SPECIAL 24" x 18" VARIABLE  
4" BLACK LETTERS ON WHITE  
REFLECTIVE BACKGROUND

**ARROWS SIGNS**

 M5-1L-2115


 M5-1R-2115

 M6-1-2115


 M6-1-2115


 M6-3-2115

**CARDINAL DIRECTION & DETOUR SIGNS**

 NORTH M3-1-2412

 EAST M3-2-2412

 SOUTH M3-3-2412

 WEST M3-4-2412

 DETOUR M4-8-2412

**STATE ROUTE**

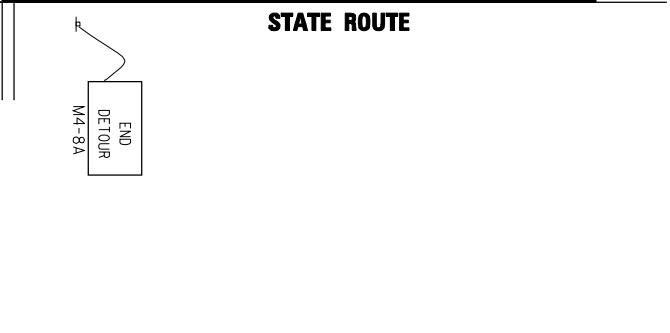
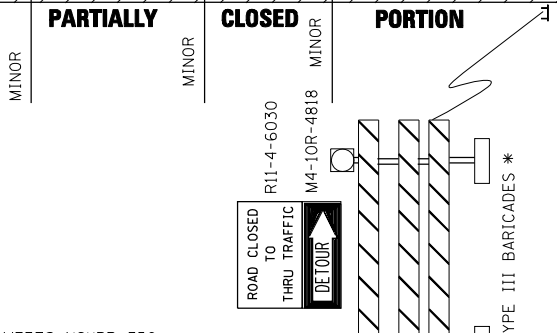
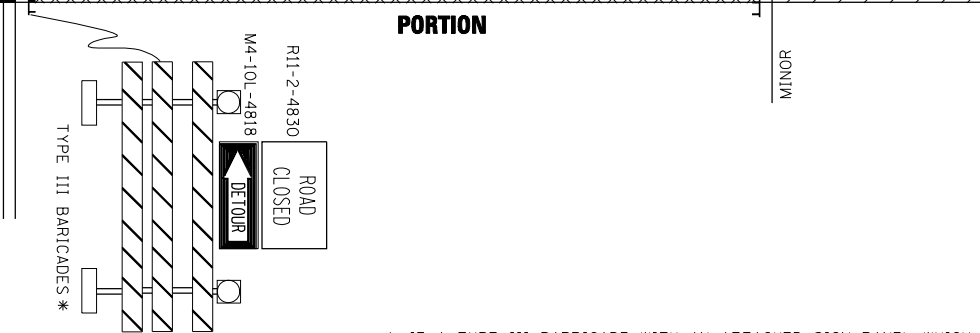
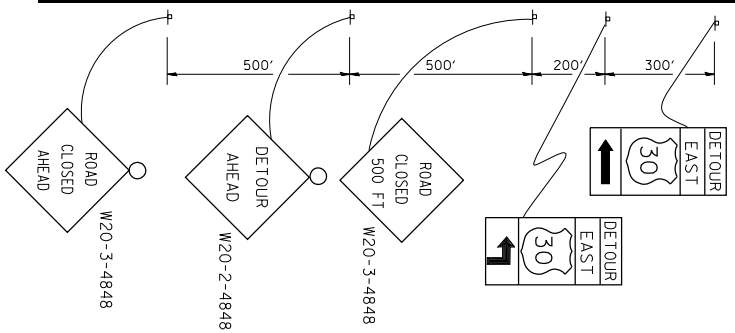
**COMPLETELY CLOSED**

**PARTIALLY**

**CLOSED**

**PORTION**

**STATE ROUTE**



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

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - 10-18-02
ct:\pwwork\p\WID01\DRIVAKOSGN\d0108315\1421.dgn		DRAWN -	REVISED - R. BORO 09-14-09
		PLOT SCALE = 49.9999' / IN.	REVISED -
		PLOT DATE = 9/14/2009	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETOUR SIGNING  
FOR CLOSING STATE HIGHWAYS**

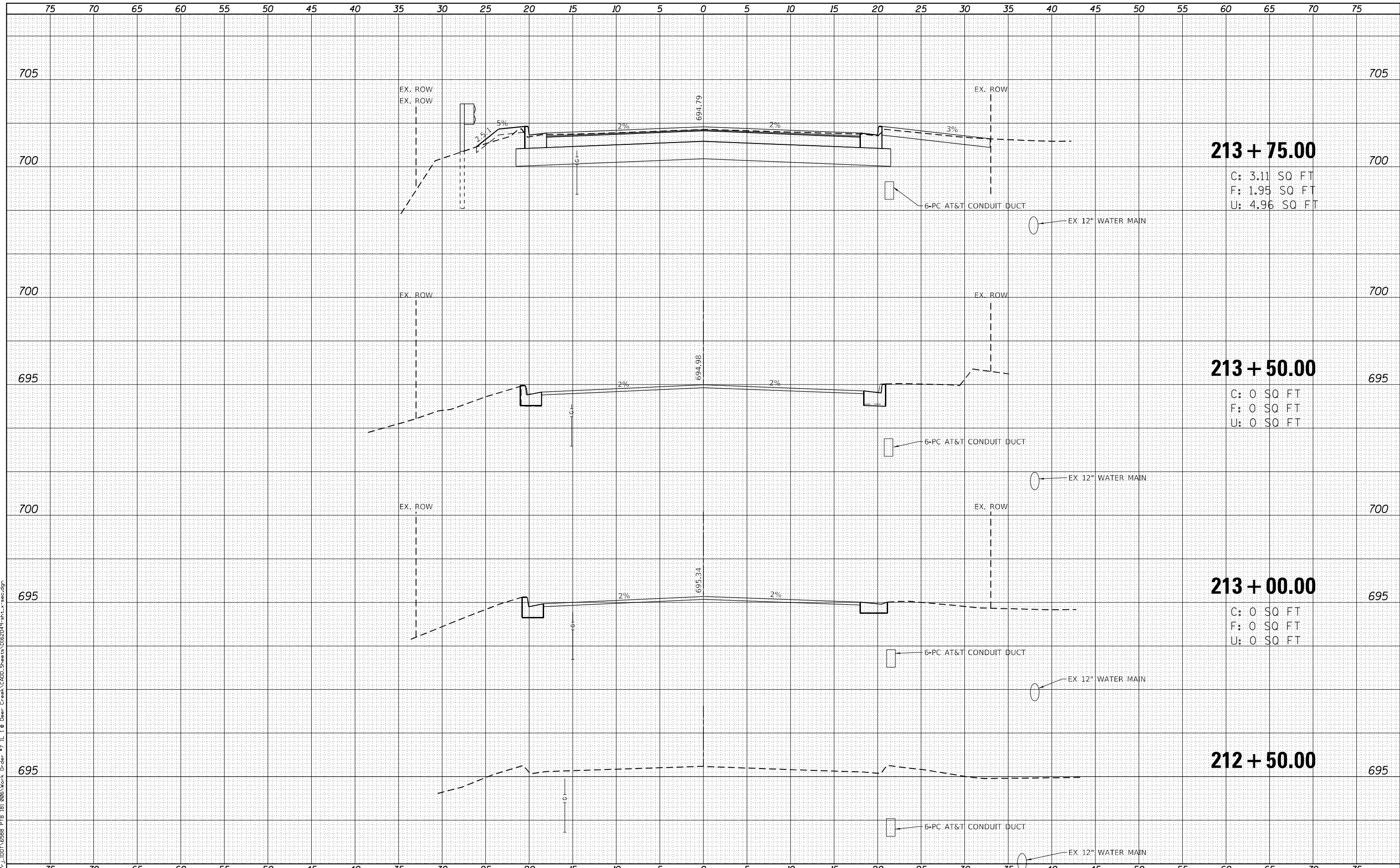
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	34
<b>TC-21</b>		CONTRACT NO. 62D49		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINISHED SURVEY	
NOTED SURVEY	
PLOTTED SURVEY	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTED SURVEY	
PLOTTED SURVEY	
AREAS CHECKED	

FILE NAME = H:\P\J\DD\1\6588 PTB 181 085\Work Order #7 IL 18 Deer Creek\CADD\Sheets\18E2D19-sh1-a.scdgn



**213 + 75.00**  
 C: 3.11 SQ FT  
 F: 1.95 SQ FT  
 U: 4.96 SQ FT

**213 + 50.00**  
 C: 0 SQ FT  
 F: 0 SQ FT  
 U: 0 SQ FT

**213 + 00.00**  
 C: 0 SQ FT  
 F: 0 SQ FT  
 U: 0 SQ FT

**212 + 50.00**



USER NAME = nrankin	DESIGNED - JKP	REVISIED -
	DRAWN - DMW	REVISIED -
PLOT SCALE = H:1"=5' V:1"=2.5'	CHECKED - SPF	REVISIED -
PLOT DATE = 10/18/2021	DATE - 10/18/2021	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 ILLINOIS ROUTE 1 OVER DEER CREEK**

SCALE: H:1"=5' V:1"=2.5' SHEET 1 OF 5 SHEETS STA. 212+50.00 TO STA. 213+75.00

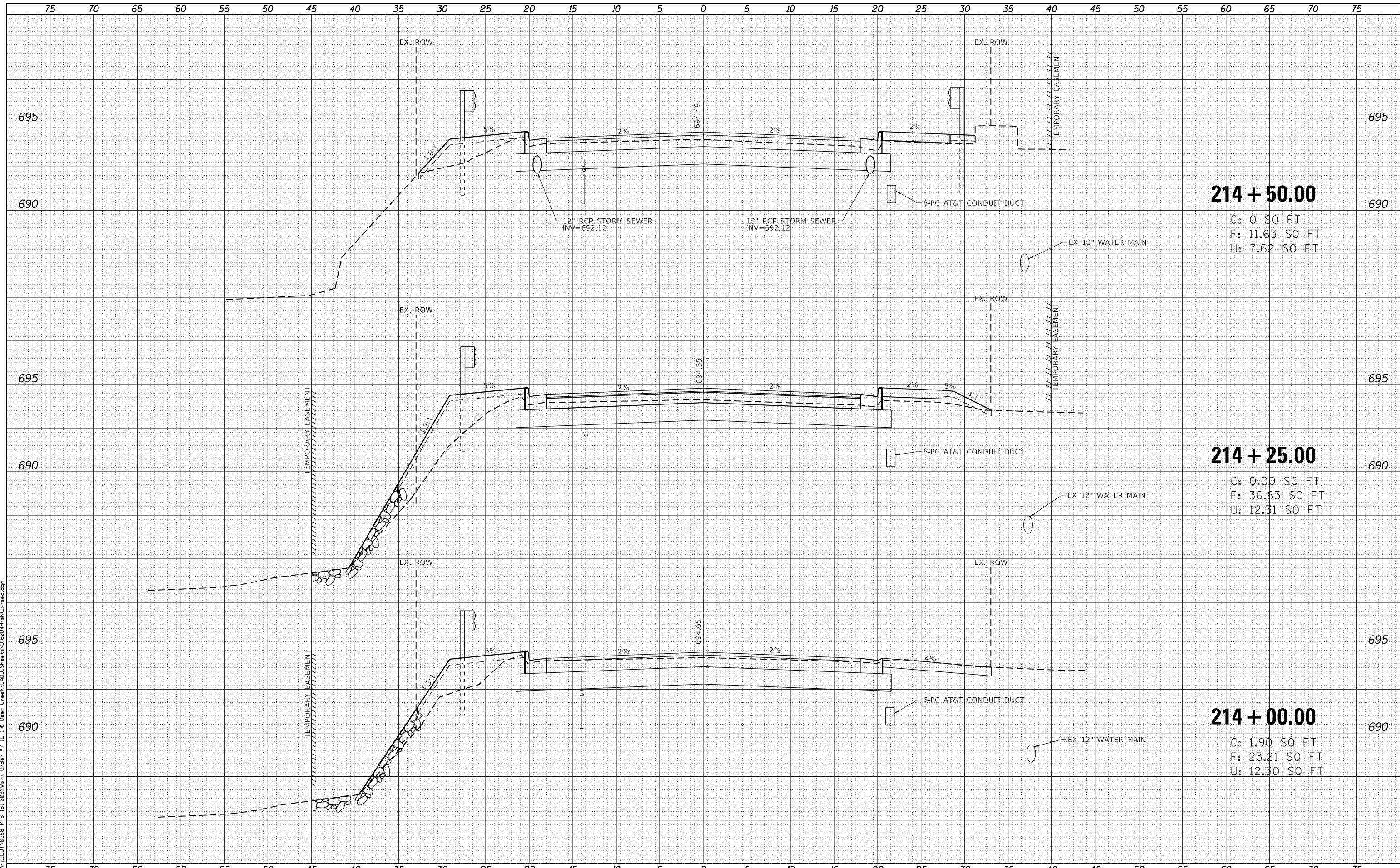
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	35
CONTRACT NO. 62D49				

ILLINOIS FED. AID PROJECT

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

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

FILE NAME = H:\P\J\DD\1\6588 PTB 181 085\Work Order #7 IL 18 Deer Creek\CADD\Sheets\62D49-sh1.dwg



**214 + 50.00**

C: 0 SQ FT  
F: 11.63 SQ FT  
U: 7.62 SQ FT

**214 + 25.00**

C: 0.00 SQ FT  
F: 36.83 SQ FT  
U: 12.31 SQ FT

**214 + 00.00**

C: 1.90 SQ FT  
F: 23.21 SQ FT  
U: 12.30 SQ FT



USER NAME = nrankin	DESIGNED - JKP	REVISD -
	DRAWN - DMW	REVISD -
PLOT SCALE = H=1"=5' V=1"=2.5'	CHECKED - SPF	REVISD -
PLOT DATE = 10/18/2021	DATE - 10/18/2021	REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
ILLINOIS ROUTE 1 OVER DEER CREEK**

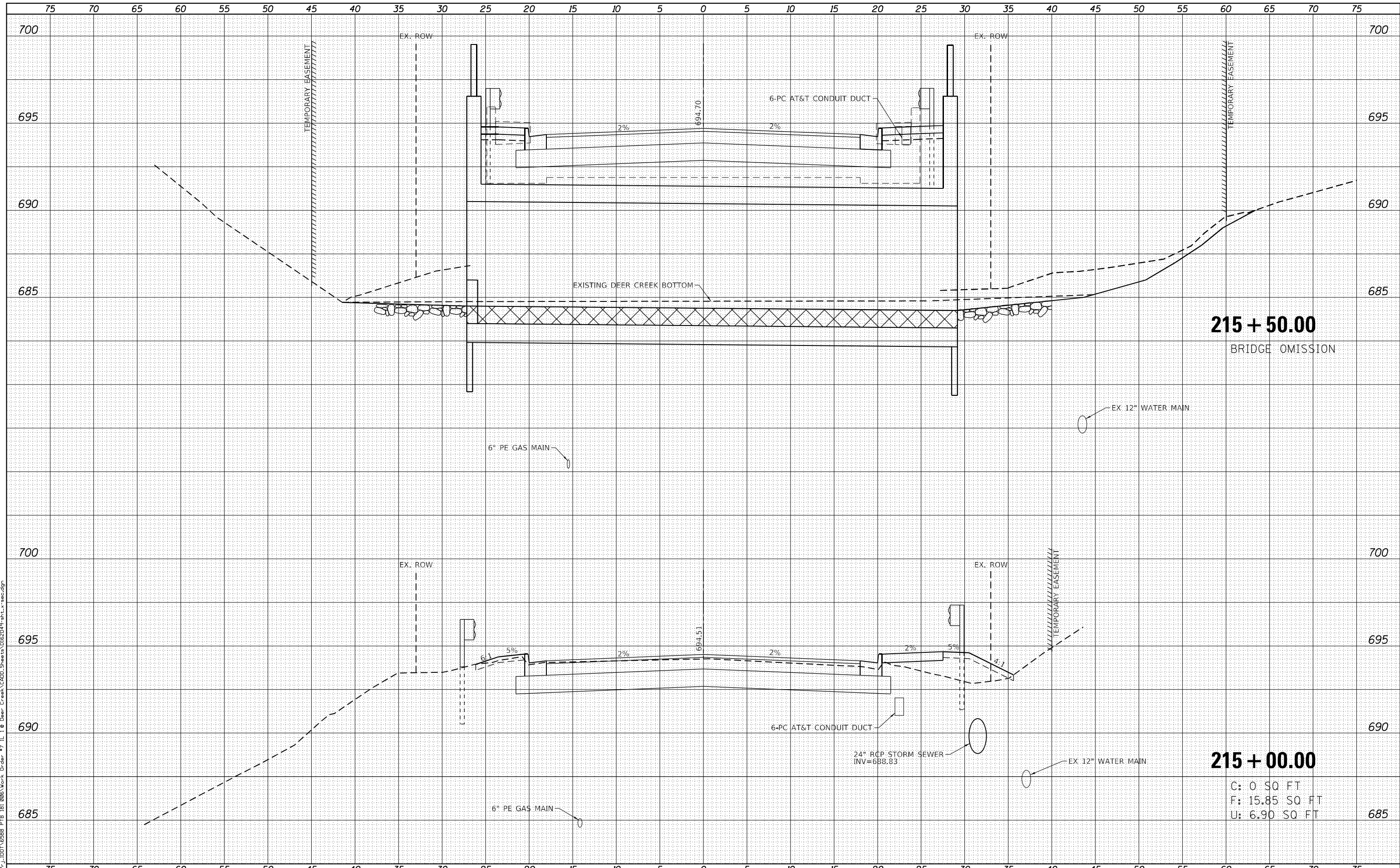
SCALE: H=1"=5' V=1"=2.5' SHEET 2 OF 5 SHEETS STA. 214+00.00 TO STA. 214+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	36
				CONTRACT NO. 62D49
ILLINOIS FED. AID PROJECT				

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

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

FILE NAME = H:\P\J\DDT\6588 PTB 181 085\Work Order #7 IL 18 Deer Creek\CADD\Sheets\182D19-sh1-a.scdgn



**215 + 50.00**  
BRIDGE OMISSION

**215 + 00.00**  
C: 0 SQ FT  
F: 15.85 SQ FT  
U: 6.90 SQ FT



USER NAME = nrankin	DESIGNED - JKP	REvised -
	DRAWN - DMW	REvised -
PLOT SCALE = H=1"=5' V=1"=2.5'	CHECKED - SPF	REvised -
PLOT DATE = 10/18/2021	DATE - 10/18/2021	REvised -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
ILLINOIS ROUTE 1 OVER DEER CREEK**

SCALE: H=1"=5' V=1"=2.5' SHEET 3 OF 5 SHEETS STA. 215+00.00 TO STA. 215+50.00

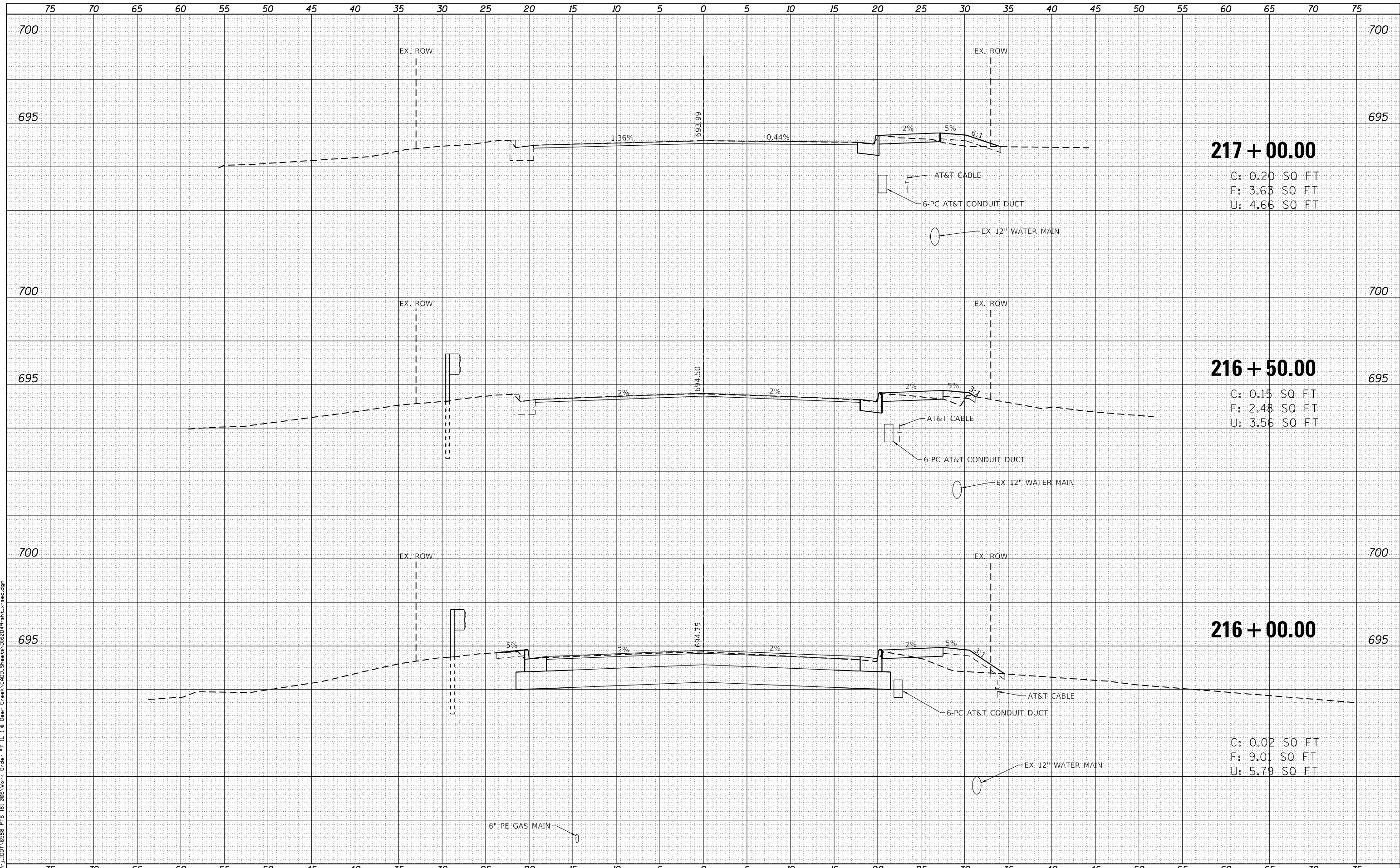
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	37
CONTRACT NO. 62D49				

ILLINOIS FED. AID PROJECT

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

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

FILE NAME = H:\P\J\DDT\6588 PTB 181 085\Work Order #7 IL 18 Deer Creek\CADD\Sheets\62D49-sh1.dwg



**217 + 00.00**

C: 0.20 SQ FT  
F: 3.63 SQ FT  
U: 4.66 SQ FT

**216 + 50.00**

C: 0.15 SQ FT  
F: 2.48 SQ FT  
U: 3.56 SQ FT

**216 + 00.00**

C: 0.02 SQ FT  
F: 9.01 SQ FT  
U: 5.79 SQ FT



USER NAME = nrankin	DESIGNED - JKP	REVISIED -
	DRAWN - DMW	REVISIED -
PLOT SCALE = H=1"=5' V=1"=2.5'	CHECKED - SPF	REVISIED -
PLOT DATE = 10/18/2021	DATE - 10/18/2021	REVISIED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
ILLINOIS ROUTE 1 OVER DEER CREEK

SCALE: H=1"=5' V=1"=2.5' SHEET 4 OF 5 SHEETS STA. 216+00.00 TO STA. 217+00.00

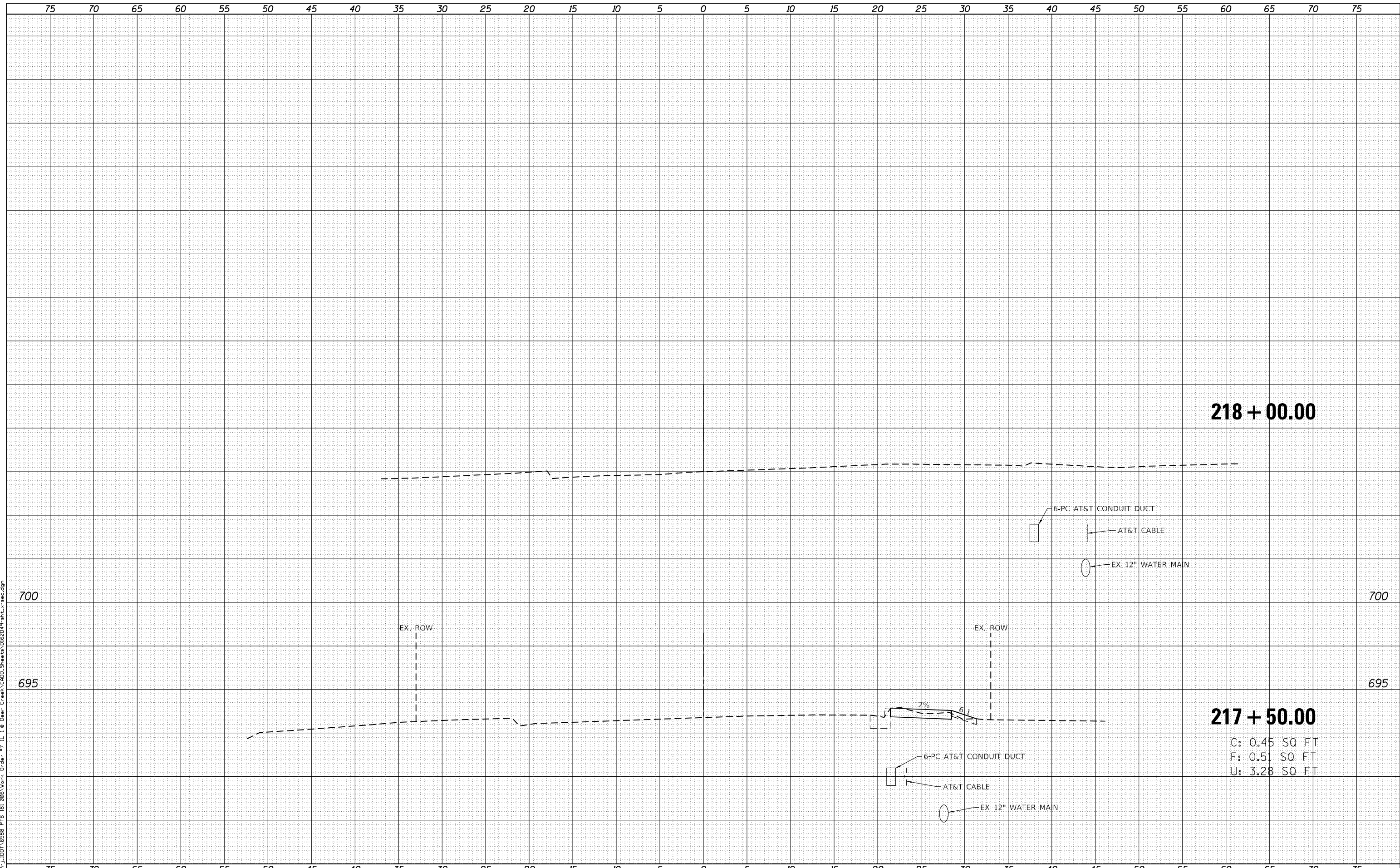
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	38
CONTRACT NO. 62D49				

ILLINOIS FED. AID PROJECT

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	
NO.	

FILE NAME = H:\P\J\DD\1\5588 PTB 181 005\Work Order #7 IL 18 Deer Creek\CADD\Sheets\18E2D19-sh1-a.scdgn



USER NAME = nrankin	DESIGNED - JKP	REVISED -
	DRAWN - DMW	REVISED -
PLOT SCALE = H:1"=5' V:1"=2.5'	CHECKED - SPF	REVISED -
PLOT DATE = 10/18/2021	DATE - 10/18/2021	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS		
ILLINOIS ROUTE 1 OVER DEER CREEK		
SCALE: H:1"=5' V:1"=2.5'	SHEET 5 OF 5 SHEETS	STA. 217+50.00 TO STA. 218+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	10WB-B	WILL	39	39
CONTRACT NO. 62D49				
ILLINOIS FED. AID PROJECT				