

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	MCHENRY	91	1
		ILLINOIS	CONTRACT NO. 61B25	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN SENECA TOWNSHIP
IN UNINCORPORATED MCHENRY COUNTY

TRAFFIC DATA

2013 ADT = 1,750
2040 ADT = 2,000

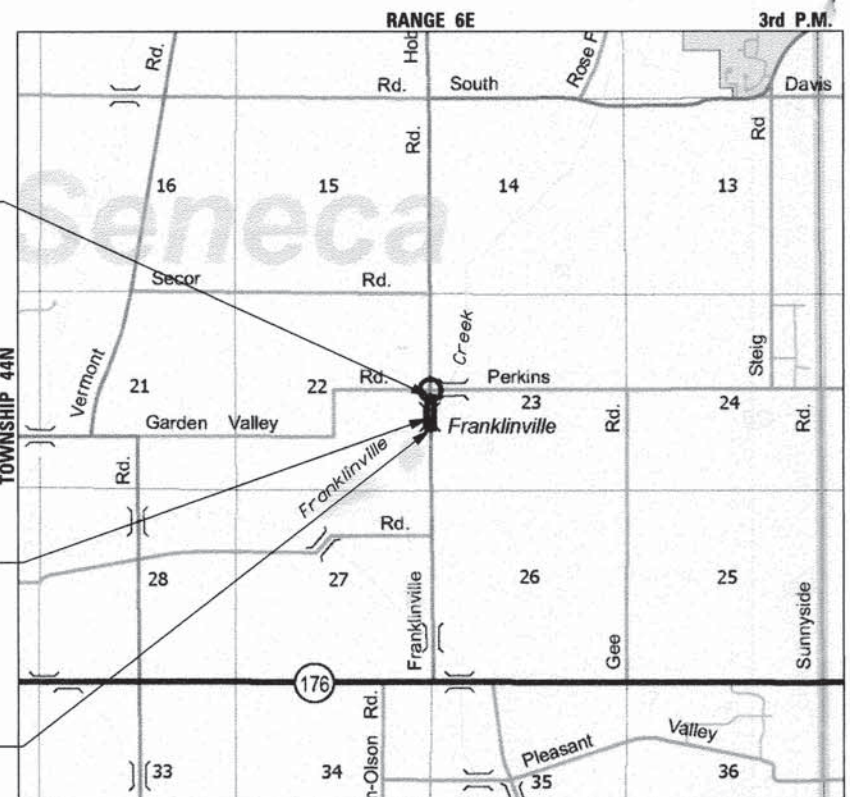
DESIGN/POSTED SPEED

POSTED SPEED: 55 MPH
DESIGN SPEED: 60 MPH

DESIGN DESIGNATION

MAJOR COLLECTOR (RURAL)

FAS ROUTE 0033 (FRANKLINVILLE ROAD)
OVER TRIBUTARY OF
KISHWAUKEE RIVER (FRANKLINVILLE CREEK)
BRIDGE REPLACEMENT
SECTION 10-00378-00-BR
PROJECT BRS-0033(102)
MCHENRY COUNTY
JOB NO. C-91-743-10

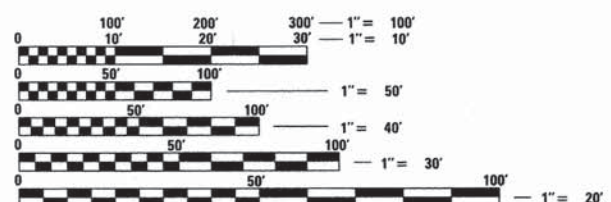


PROJECT ENDS
STA. 92 + 26.00

EX. STRUCTURE NO. 056-3016
PR. STRUCTURE NO. 056-3195

PROJECT BEGINS
STA. 85 + 00.00

SENECA TOWNSHIP
PROJECT NET AND GROSS LENGTH = 726 FT (0.138 MILE)
PROJECT LOCATED IN:
PARTS OF SECTION 22 AND 23 IN TOWNSHIP 44N, RANGE 6E,
OF THE THIRD PRINCIPAL MERIDIAN, IN THE TOWN OF FRANKLINVILLE
IN UNINCORPORATED MCHENRY COUNTY, ILLINOIS



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

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED FEBRUARY 5, 2015
Joseph Z. Kovaleski, Jr.
COUNTY ENGINEER, MCHENRY COUNTY

PASSED FEBRUARY 5, 2015
Christopher Holt
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW February 6 2015
John Fortman
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER



February 4 20 15
Andrew E. Underwager
ANDREW E. UNDERWAGER
ILLINOIS REG. PROFESSIONAL ENGINEER NO. 081-006218
EXPIRATION DATE 11-30-2016
SHEETS 47-67



FEBRUARY 4 20 15
Matthew Baldwin
MATTHEW BALDWIN
ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-063297
EXPIRATION DATE 11-30-2015
SHEETS 1-46, 68-91

FERRAL AID PROGRAM ENGINEER: FAWAD AQUEEL, P.E. (847) 705-4021 SCHAUMBURG, IL

SUMMARY OF QUANTITIES

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			NON-PARTICIPATING 100% LOCAL
						80% FEDERAL 20% STATE		ROADWAY 0004	
						BRIDGE 0011	TRAINEES 0042		
						URBAN	NON-URBAN	URBAN	URBAN
		20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	620	620			
		20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	270	270			
		20101000	TEMPORARY FENCE	FOOT	500	500			
•		20101200	TREE ROOT PRUNING	EACH	10	10			
•		20101700	SUPPLEMENTAL WATERING	UNIT	1.6	1.6			
		20200100	EARTH EXCAVATION	CU YD	2,200	2,200			
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	330	330			
		20400800	FURNISHED EXCAVATION	CU YD	578	578			
		20800150	TRENCH BACKFILL	CU YD	7	7			
		21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SO YD	690	690			
		21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	567	567			
		21101625	TOPSOIL FURNISH AND PLACE, 6"	SO YD	1,379	1,379			
		21400100	GRADING AND SHAPING DITCHES	FOOT	100	100			
•		25000210	SEEDING, CLASS 2A	ACRE	0.5	0.5			
•		25000312	SEEDING, CLASS 4A	ACRE	0.25	0.25			
•		25000350	SEEDING, CLASS 7	ACRE	0.5	0.5			
•		25000400	NITROGEN FERTILIZER NUTRIENT	POUND	88	88			
•		25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	88	88			
*		25100630	EROSION CONTROL BLANKET	SO YD	6,193	6,193			
		25100635	HEAVY DUTY EROSION CONTROL BLANKET	SO YD	232	232			
		28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	515	515			
		28000315	AGGREGATE DITCH CHECKS	TON	6	6			
		28000400	PERIMETER EROSION BARRIER	FOOT	3,029	3,029			
		28000500	INLET AND PIPE PROTECTION	EACH	2	2			
		28001100	TEMPORARY EROSION CONTROL BLANKET	SO YD	3,000	3,000			
		28100105	STONE RIPRAP, CLASS A3	SO YD	7	7			
		28100107	STONE RIPRAP, CLASS A4	SO YD	351		351		
		28200200	FILTER FABRIC	SO YD	358	7	351		
	S	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	330	330			
	S	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	1,854	1,854			
		31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SO YD	135	135			
		35501300	HOT-MIX ASPHALT BASE COURSE, 4"	TON	29	29			
	S	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	6,201	6,201			
		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	41				41
		40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	390	338			52

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USER NAME = nparris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 1/30/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 3
CONTRACT NO. 61B25				ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			NON-PARTICIPATING 100% LOCAL
						80% FEDERAL 20% STATE			ROADWAY
						ROADWAY 0004 URBAN	BRIDGE 0011 NON-URBAN	TRAINEES 0042 URBAN	ROADWAY 0004 URBAN
		40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	261	215			46
		42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	87	87			
		44000100	PAVEMENT REMOVAL	SQ YD	1,462	1,462			
		44000166	HOT-MIX ASPHALT SURFACE REMOVAL, 4 1/4"	SQ YD	409				409
		44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	118	118			
		44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	22	22			
		48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	90				90
		48203017	HOT-MIX ASPHALT SHOULDERS, 5"	SQ YD	531	531			
		50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1		
		50105220	PIPE CULVERT REMOVAL	FOOT	48	48			
		50200100	STRUCTURE EXCAVATION	CU YD	232		232		
		50300225	CONCRETE STRUCTURES	CU YD	73.8		73.8		
		50300255	CONCRETE SUPERSTRUCTURE	CU YD	195.6		195.6		
		50300260	BRIDGE DECK GROOVING	SQ YD	436		436		
		50300300	PROTECTIVE COAT	SQ YD	455		455		
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	65,980		65,980		
		50800515	BAR SPLICERS	EACH	33		33		
*		50901050	STEEL RAILING, TYPE SM	FOOT	186		186		
		51200959	FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	556		556		
		51202305	DRIVING PILES	FOOT	556		556		
		51203200	TEST PILE METAL SHELLS	EACH	3		3		
		51500100	NAME PLATES	EACH	1		1		
		54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	4	4			
		5421D012	PIPE CULVERTS, CLASS D, TYPE 1 12" (TEMPORARY)	FOOT	130	130			
		542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	42	42			
		542D0211	PIPE CULVERTS, CLASS D, TYPE 1 6"	FOOT	24	24			
		59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	36		36		
		60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	5	5			
		60100945	PIPE DRAINS 12"	FOOT	40	40			
		60107600	PIPE UNDERDRAINS 4"	FOOT	398	398			
		60235300	INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID	EACH	3	3			
		60240215	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	EACH	1	1			
		60801012	FLAP GATE 12"	EACH	1	1			
•		63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	212.5	212.5			
•		63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4			

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WBS
WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174

USER NAME = mbaldwin	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 2/2/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
SCALE:	SHEET NO. 2 OF 4 SHEETS STA. TO STA.

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 4
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SPECIALTY ITEM	SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			NON-PARTICIPATING 100% LOCAL	
						80% FEDERAL 20% STATE		TRAINEES		ROADWAY
						ROADWAY	BRIDGE			
						0004 URBAN	0011 NON-URBAN	0042 URBAN	0004 URBAN	
*		63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3				
*		63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1	1				
*		63200310	GUARDRAIL REMOVAL	FOOT	308	308				
		67100100	MOBILIZATION	L SUM	1	1				
		70106800	CHANGEABLE MESSAGE SIGN	CAL MO	12	12				
		70300100	SHORT TERM PAVEMENT MARKING	FOOT	135	135				
		70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2,000	2,000				
		70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	45	45				
*		70500100	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	62.5	62.5				
*		70500685	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 10	EACH	4	4				
		72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	6	6				
		72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1				
*		78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,467	1,467				
*		78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	277	277				
*	S	78200410	GUARDRAIL MARKERS, TYPE A	EACH	20	20				
*	S	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4				
*		A2002916	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED	EACH	10	10				
*		A2005016	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2" CALIPER, BALLED AND BURLAPPED	EACH	8	8				
*		A2005116	TREE, JUGLANS NIGRA (BLACK WALNUT), 2" CALIPER, BALLED AND BURLAPPED	EACH	2	2				
*		K0013030	PERENNIAL PLANTS, WETLAND TYPE, 2" DIAMETER BY 4" DEEP PLUG	UNIT	64	64				
	S	X0323260	SEDIMENT BASIN	EACH	1	1				
	S	X2800302	TEMPORARY DITCH CHECKS (SPECIAL)	FOOT	182	182				
	S	X2830495	AGGREGATE DITCH (SPECIAL)	TON	545	545				
	S	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	3	3				
	S	X4811700	AGGREGATE SHOULDERS (SPECIAL)	CU YD	13	13				
	S	X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	56		56			
	S	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1				
	S	XX002982	GATE VALVES, 6"	EACH	1	1				
	S	XX006277	TEMPORARY SEDIMENT TRAP	EACH	6	6				
*	S	XX006622	EMERGENT / SHORELINE SEED MIX	ACRE	0.5	0.5				
	S	XX006852	EXPLORATION TRENCH (SPECIAL)	CU YD	67	67				
	S	XX007958	DIVERSION STRUCTURE	EACH	2	2				
	S	Z0013797	STABILIZED CONSTRUCTION ENTRANCE	SO YD	200	200				
	S	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				
	S	Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	126	126				

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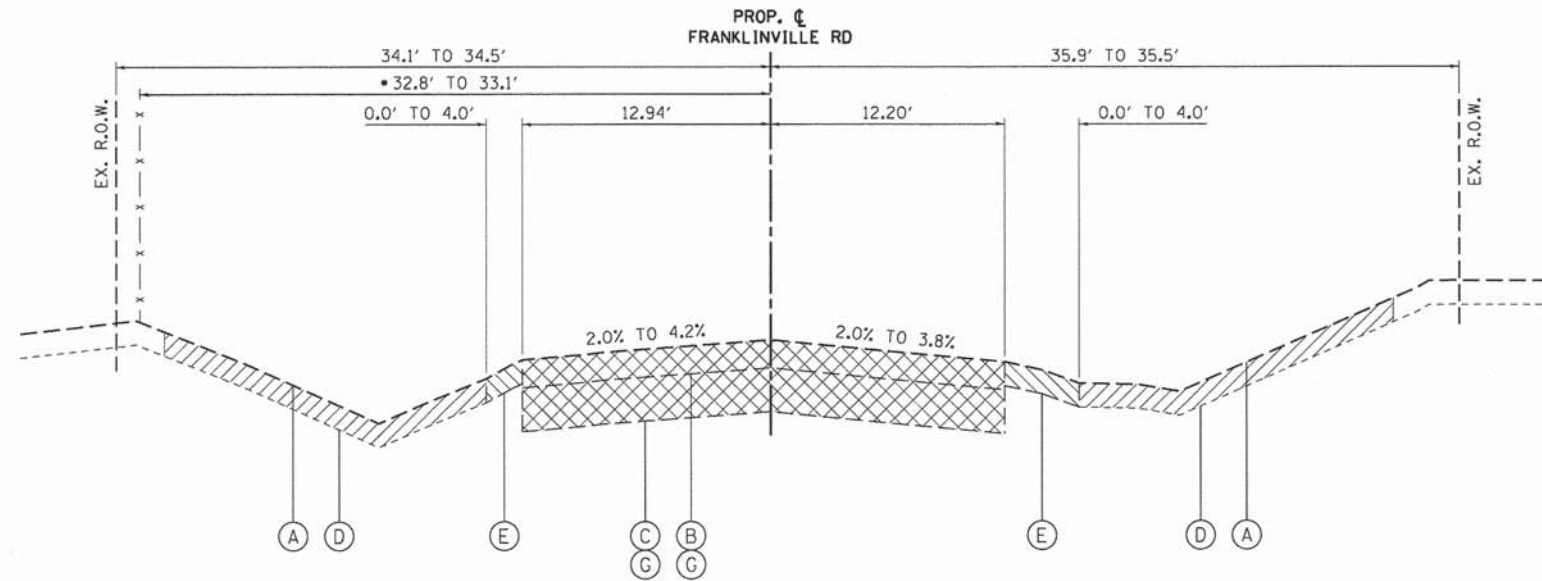


USER NAME = mbo1dwin	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 2/2/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO. 3 OF 4 SHEETS	STA.	TO STA.

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 5
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				



EXISTING FENCE
 STA. 85+00.0 TO 85+86.4

EXISTING TYPICAL SECTION NO. 1
 STA. 85+00.0 TO 88+49.4, FRANKLINVILLE ROAD
 STA. 89+68.4 TO 90+75.0, FRANKLINVILLE ROAD

EXISTING PAVEMENT NOTES

1. INFORMATION ON HMA COURSE AND AGGREGATE BASE COURSE THICKNESSES ARE TAKEN FROM THE FOLLOWING RESOURCES:

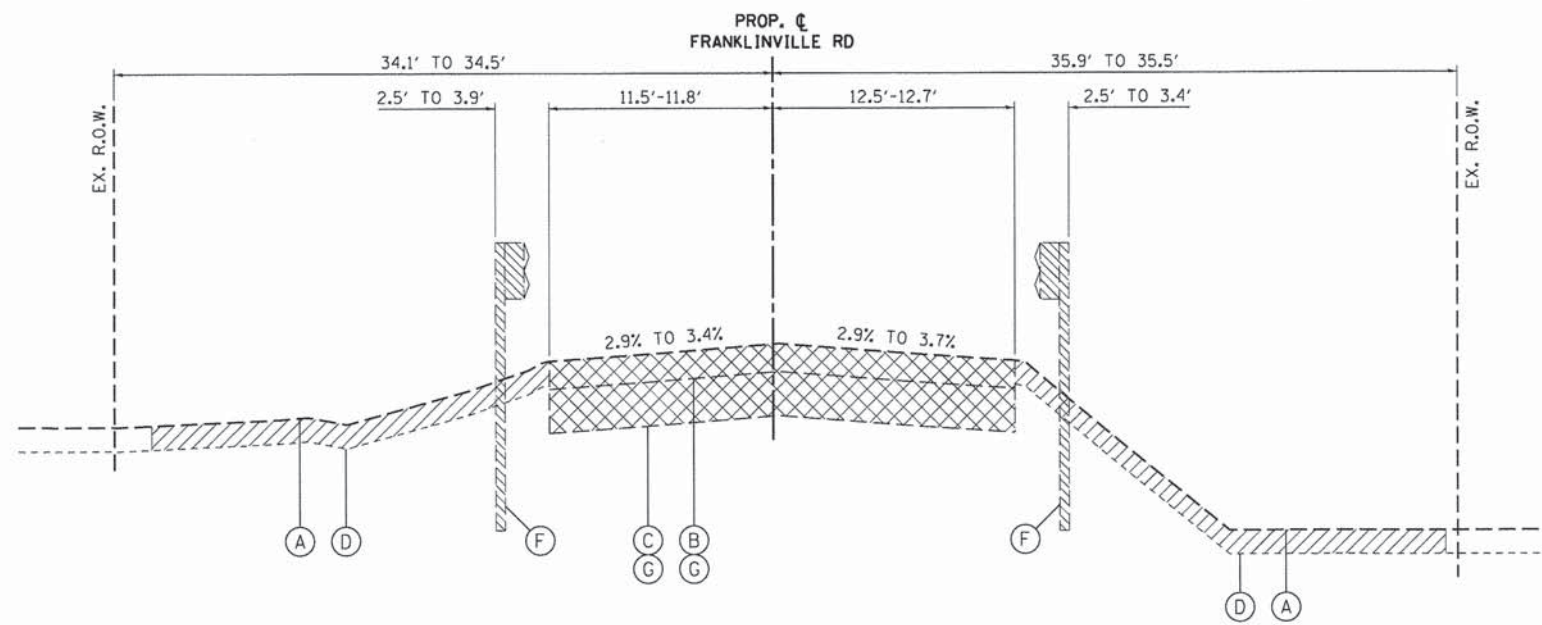
ROADWAY GEOTECHNICAL INFORMATION HAS BEEN DOCUMENTED IN THE STRUCTURE GEOTECHNICAL REPORT PREPARED BY TESTING SERVICE CORPORATION DATED SEPTEMBER 5, 2013 AND IS INCLUDED IN THE SPECIAL PROVISIONS.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE THICKNESS OF THE EXISTING PAVEMENTS TO BE REMOVED AND THE EXTENT TO WHICH THEY ARE REINFORCED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF VARIATIONS FROM THE ASSUMED THICKNESS SHOWN ON THE PLANS OR FOR VARIATIONS IN THE AMOUNT OF REINFORCEMENT.

LEGEND, EXISTING

- (A) EXISTING GROUND LINE
- (B) EXISTING HMA PAVEMENT, 6"-7" (SEE NOTES 1 & 2)
- (C) EXISTING AGGREGATE BASE, 8"-11" (SEE NOTES 1 & 2)
- (D) EXISTING TOPSOIL, 6" - TO BE REMOVED
- (E) EXISTING AGGREGATE SHOULDER, 6" - TO BE REMOVED (INCLUDED IN EARTH EXCAVATION)
- (F) EXISTING GUARDRAIL - TO BE REMOVED
- (G) EXISTING PAVEMENT STRUCTURE - TO BE REMOVED

STRUCTURAL PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC: Year 2025
 PV = 1749 SU = 19 MU = 93
 ROAD/STREET CLASSIFICATION: Class 2
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P = 94 S = 1 M = 5
 TRAFFIC FACTOR: Actual TF = 0.38 AC Type = PG 64-22
 Minimum TF = 0.50
 PG GRADE: Binder = PG 64-22 / 58-22 Surface = PG 64-22
 SUBGRADE SUPPORT RATING: SSR = POOR



EXISTING TYPICAL SECTION NO. 2
 STA. 88+49.4 TO 88+89.6, FRANKLINVILLE ROAD
 STA. 89+28.4 TO 89+68.4, FRANKLINVILLE ROAD
BRIDGE OMISSION
 STA. 88+89.6 TO STA. 89+28.4

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
ITEM	AIR VOIDS @ Ndes
FRANKLINVILLE ROAD - RECONSTRUCTION	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 2"	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 5" (LIFTS: 2 1/4" MIN. - 4" MAX.)	4% @ 70 GYR.
FRANKLINVILLE ROAD - RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 2"	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70; 2 1/4"	4% @ 70 GYR.
FRANKLINVILLE ROAD - APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 2"	4% @ 70 GYR.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 (LIFTS: 2 1/4" MIN. - 4" MAX.)	4% @ 70 GYR.
HMA SHOULDERS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm); 2"	4% @ 70 GYR.
HOT-MIX ASPHALT SHOULDER (HMA BINDER IL-19 mm), 5" (LIFTS: 2 1/4" MIN. - 4" MAX.)	4% @ 50 GYR.
STABILIZED DRIVEWAYS (PRIVATE ENTRANCE)	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5 mm); 2"	4% @ 70 GYR.
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm), 4" (LIFTS: 2 1/4" MIN. - 4" MAX.)	4% @ 50 GYR.
PATCHING	
CLASS D PATCH (HMA BINDER IL19 mm), 12" (LIFTS: 2 1/4" MIN. - 4" MAX.)	4% @ 70 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB/SOYD/IN.
 THE AC TYPE FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.
 *NUMBER OF LIFTS TO BE DETERMINED BY THE ENGINEER.

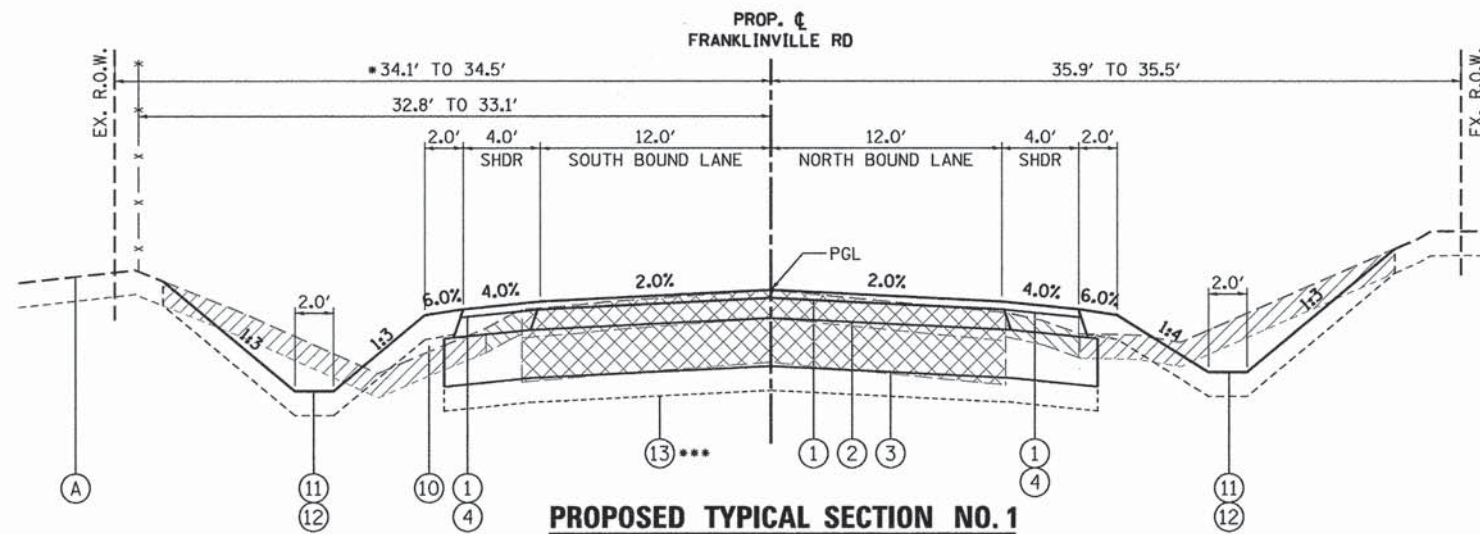
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WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174

USER NAME = nparris	DESIGNED - MNB	REVISED -
PLLOT SCALE = 1:15	DRAWN - NDP	REVISED -
PLLOT DATE = 1/30/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE:	SHEET NO. 1 OF 3 SHEETS	0033	10-00378-00-BR	MCHENRY	91	7
	STA. TO STA.	CONTRACT NO.61B25				
ILLINOIS FED. AID PROJECT						



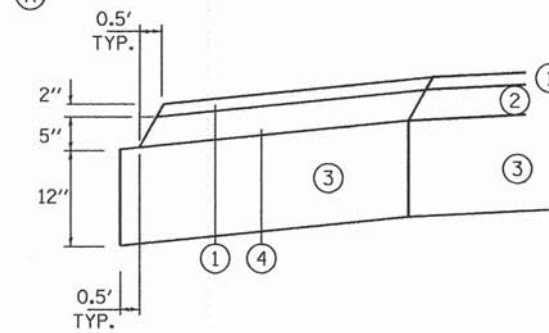
PROPOSED TYPICAL SECTION NO. 1

STA. 85+00.0 TO 86+25.7 LT, FRANKLINVILLE ROAD
 STA. 85+00.0 TO 86+26.5 RT, FRANKLINVILLE ROAD
 STA. 90+05.5 TO 90+75.0 LT, FRANKLINVILLE ROAD
 STA. 90+55.5 TO 90+75.0 RT, FRANKLINVILLE ROAD

• EXISTING FENCE
 STA. 85+00.0 TO 85+86.4

DITCH STATION RANGE
 STA. 85+00.0 TO 86+45.0 LT
 STA. 87+40.0 TO 88+02.6 LT
 STA. 85+00.0 TO 88+02.6 RT
 BRIDGE OMISSION
 STA. 89+25.1 TO 90+75.0 RT

*** SUBGRADE IMPROVEMENT
 STA. 88+97.0 TO 90+75.0 RT/LT



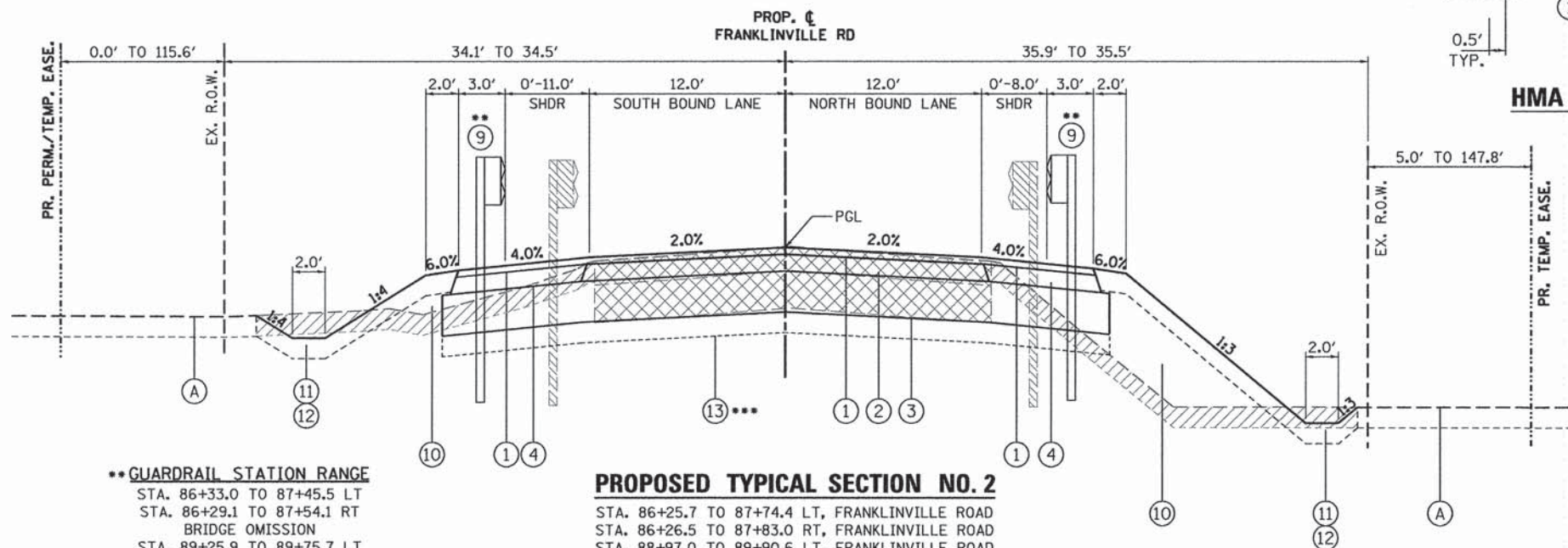
HMA SHOULDER DETAIL

LEGEND, EXISTING

- (A) EXISTING GROUND LINE
- (B) EXISTING HMA PAVEMENT, 6"-7"
- (C) EXISTING AGGREGATE BASE, 8"-11"
- (D) EXISTING TOPSOIL, 6" - TO BE REMOVED
- (E) EXISTING AGGREGATE SHOULDER, 6" - TO BE REMOVED (INCLUDED IN EARTH EXCAVATION)
- (F) EXISTING GUARDRAIL - TO BE REMOVED
- (G) EXISTING PAVEMENT STRUCTURE - TO BE REMOVED
- (H) EXISTING HMA SURFACE REMOVAL, 4/4"

LEGEND, PROPOSED

- ① 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70
- ② 5" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70
- ③ AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ④ HOT-MIX ASPHALT SHOULDER, 5"
- ⑤ SUBBASE GRANULAR MATERIAL, TYPE B
- ⑥ AGGREGATE SHOULDER, TYPE B, 6"
- ⑦ AGGREGATE SHOULDERS (SPECIAL)
- ⑧ FILTER FABRIC
- ⑨ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- ⑩ EMBANKMENT
- ⑪ 6" TOPSOIL EXCAVATION AND PLACEMENT
- ⑫ SEEDING (CLASS AS SPECIFIED) W/ EROSION CONTROL BLANKET
- ⑬ SUBGRADE IMPROVEMENT
 REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (20201200)
 AGGREGATE SUBGRADE IMPROVEMENT (30300001)
 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION (21001000)
- ⑭ 2 1/4" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70



PROPOSED TYPICAL SECTION NO. 2

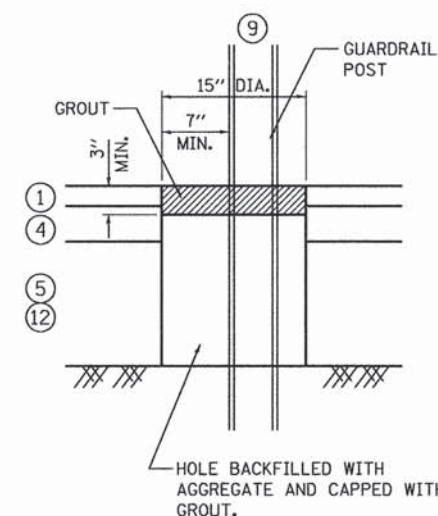
STA. 86+25.7 TO 87+74.4 LT, FRANKLINVILLE ROAD
 STA. 86+26.5 TO 87+83.0 RT, FRANKLINVILLE ROAD
 STA. 88+97.0 TO 89+90.6 LT, FRANKLINVILLE ROAD
 STA. 89+05.6 TO 90+55.5 RT, FRANKLINVILLE ROAD

BRIDGE OMISSION

STA. 87+74.4 TO STA. 88+97.0, LT
 STA. 87+83.0 TO STA. 89+05.6, RT

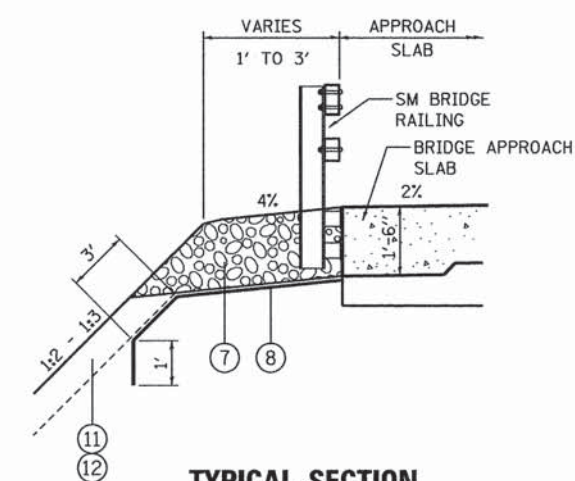
**** GUARDRAIL STATION RANGE**

STA. 86+33.0 TO 87+45.5 LT
 STA. 86+29.1 TO 87+54.1 RT
 BRIDGE OMISSION
 STA. 89+25.9 TO 89+75.7 LT
 STA. 89+34.5 TO 90+47.0 RT



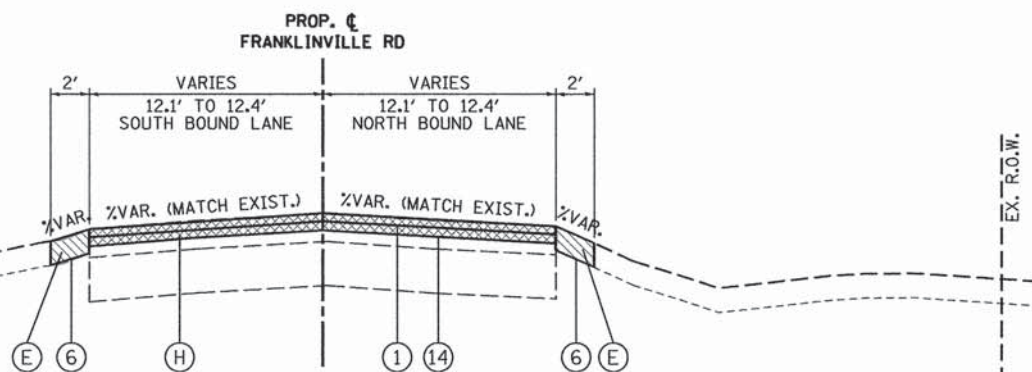
GUARDRAIL GROUT DETAIL

SEE STD. 630201 FOR ADDITIONAL DETAILS



TYPICAL SECTION AGGREGATE SHOULDER, SPECIAL

STA. 87+84.4 TO 88+03.4 LT
 STA. 87+93.0 TO 88+12.7 RT
 BRIDGE OMISSION
 STA. 88+67.3 TO 88+87.0 LT
 STA. 88+76.6 TO 88+95.6 RT



PROPOSED TYPICAL SECTION NO. 3

STA. 90+75.0 TO 92+26.0 LT/RT, FRANKLINVILLE ROAD
 (BUTT-JOINT FROM STATION 92+11 TO 92+26)

FILE NAME = M:\Projects\2812\2812184 - Franklinville\PH11\CADD\Civil\Drawings\Typical_2.dgn

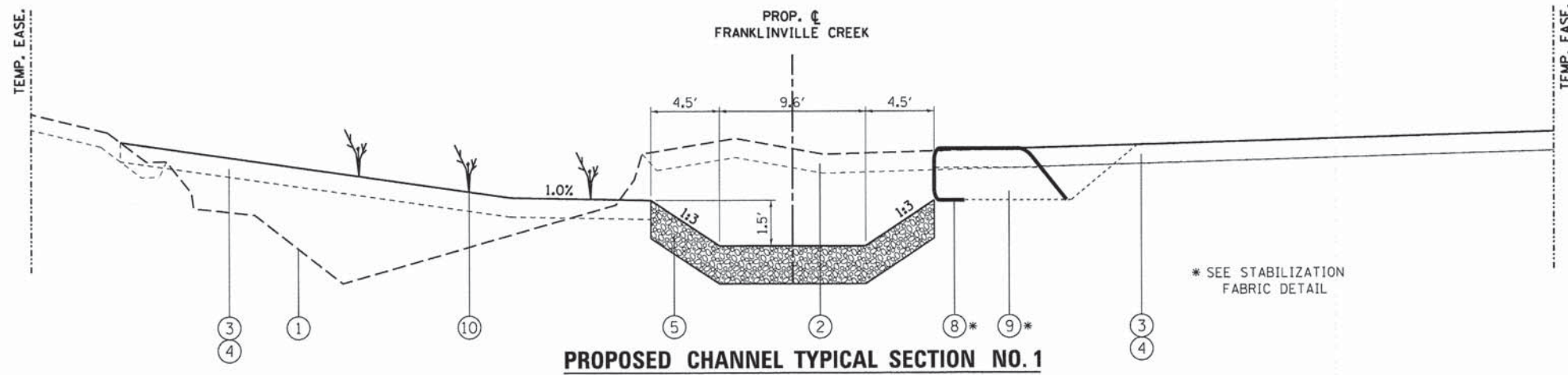
WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174

USER NAME = mbaldwin	DESIGNED - MNB	REVISED -
PLOT SCALE = 1/5	DRAWN - NDP	REVISED -
PLOT DATE = 2/5/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS	
SCALE:	SHEET NO. 2 OF 3 SHEETS STA. TO STA.

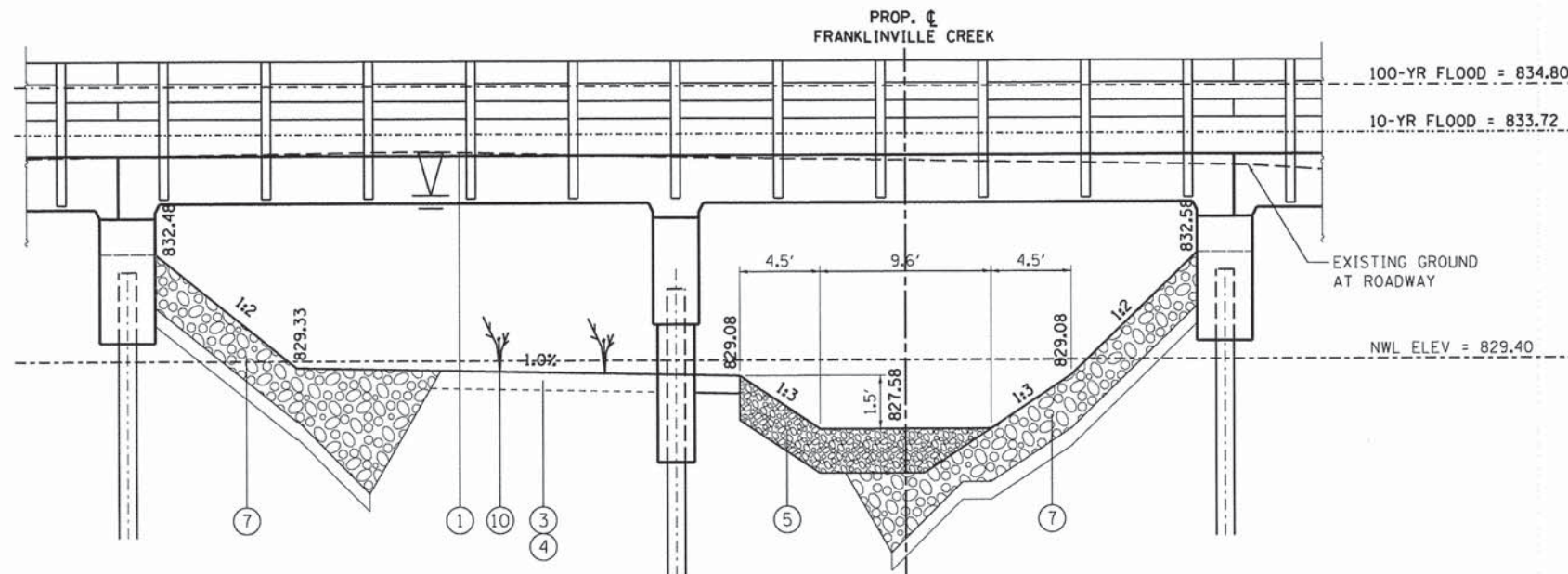
F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 8
CONTRACT NO. 61B25			ILLINOIS FED. AID PROJECT	



PROPOSED CHANNEL TYPICAL SECTION NO. 1

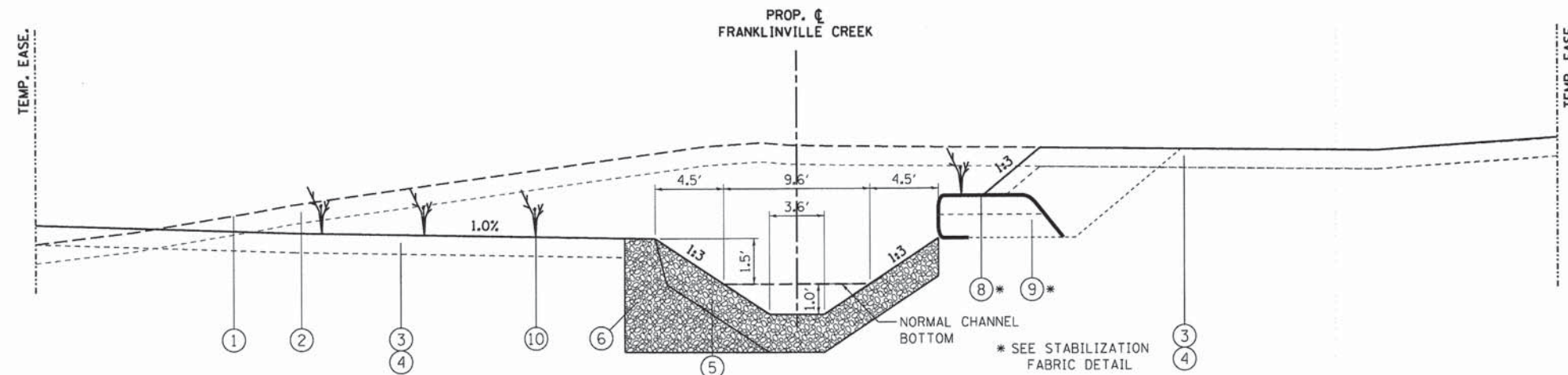
STA. 5+50.0 TO 6+87.0
 STA. 7+58.8 TO 7+75.0
 STA. 8+25.0 TO 8+81.3

* SEE STABILIZATION FABRIC DETAIL



PROPOSED CHANNEL TYPICAL SECTION NO. 2

STA. 6+87.0 TO 7+58.8
 (ELEVATIONS AT C OF BRIDGE, STA. 88+27.4)



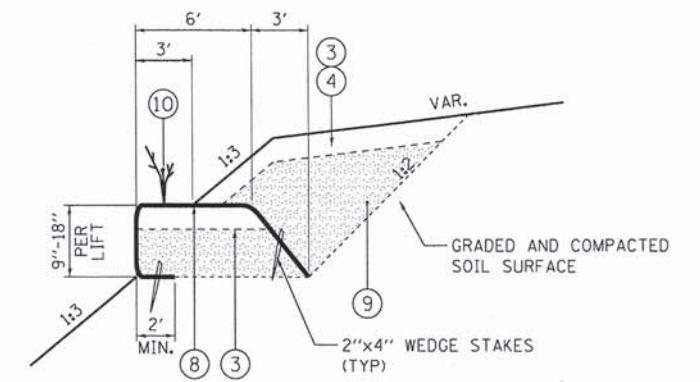
PROPOSED CHANNEL TYPICAL SECTION NO. 3

POOL LOCATION
 STA. 7+75.0 TO 8+25.0

* SEE STABILIZATION FABRIC DETAIL

LEGEND, CHANNEL

- ① EXISTING GROUND
- ② EXISTING TOPSOIL, 6" - TO BE REMOVED
- ③ 6" TOPSOIL EXCAVATION AND PLACEMENT
- ④ SEEDING (CLASS AS SPECIFIED) W/ EROSION CONTROL BLANKET
- ⑤ STONE TREATMENT, 15" (PAID AS AGGREGATE DITCH (SPECIAL))
- ⑥ STREAM BANK ENHANCEMENT (PAID AS AGGREGATE DITCH (SPECIAL))
- ⑦ STONE RIPRAP, CLASS A4
- ⑧ STABILIZATION FABRIC
- ⑨ EMBANKMENT
- ⑩ PERENNIAL PLANTS (SEE PLUG SCHEDULE FOR TYPE)



NOTE:
 USE HEAVY DUTY EROSION BLANKET ON 1:3 SLOPES ALONG THE CHANNEL

STABILIZATION FABRIC DETAIL

FILE NAME = M:\Projects\2012\120184 Franklinville\PH\CRD\Civil\NDgn\Shst\TYPICAL_3.dgn



USER NAME = nparris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1/5	DRAWN - NDP	REVISED -
PLOT DATE = 1/30/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 9
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

UNIT	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
12	86+30.2	39.3		
12	86+74.2		28.7	
6	87+76.3	70.1		
10	87+77.5	78.8		
12	87+85.6	72.4		
8	87+87.6	60.3		
8	87+89.5	62.8		
8	87+93.4	65.8		
8	87+93.1	103.5		
15	87+95.4	98.9		
8	87+97.4	63.3		
8	88+00.6	108.1		
10	88+05.1	92.3		
8	88+08.4	69.2		
12	88+11.9	44.6		
6	88+12.7	86.1		
12	88+28.2	43.8		
12	88+34.2		28.8	
12	88+36.9	58.7		
10	88+43.6	63.6		
8	88+45.7	61.3		
10	88+46.1	86.2		
10	88+55.7	87.4		
18	88+59.7		37.4	MULTI-STEM
10	88+65.2		43.2	
10	88+66.1		41.3	
10	88+66.1		48.6	
12	88+67.3	51.5		MULTI-STEM
15	88+68.8	44.8		
8	88+68.6		51.8	
10	88+71.1	79.9		
10	88+73.0	77.0		
12	88+73.3		39.1	
25	88+73.0		75.3	MULTI-STEM
10	88+75.3	97.2		
8	88+77.0	98.5		
8	88+76.9	85.7		
10	88+78.0	92.2		
8	88+84.9	81.6		
30	88+87.1		76.8	MULTI-STEM
12	88+90.0	50.7		
8	88+90.6		70.6	
10	88+90.9		94.2	
8	88+92.1		75.1	
12	88+94.9	49		
10	88+96.9	129		
12	88+97.1		46.8	
10	8,899		111	

521 SUB-TOTAL

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

UNIT	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
8	89+04.1		80.5	
8	89+10.8	116.8		
8	89+09.4	56.9		
8	89+10.6	63.4		
6	89+20.7	108.9		
12	89+16.7		39.7	
10	89+23.3	80.7		
8	89+23.8	79.9		
6	89+30.9	73.2		
25	89+29.0		92.1	MULTI-STEM

99 SUB-TOTAL

620 TOTAL

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

UNIT	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
32	88+15.1	105.7		MULTI-STEM
18	88+17.7	64.1		
24	88+22.2	52.8		
36	88+33.0		27.3	
40	88+76.9	95.6		MULTI-STEM
48	88+95.8		52.2	MULTI-STEM
48	89+01.2	54.8		MULTI-STEM
24	89+05.8	117.2		

270 TOTAL

20101000 TEMPORARY FENCE

FOOT	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
300				TREE PROTECTION
200				RE'S DESCRETION AND MAINTENANCE
500.0	TOTAL			

20101200 TREE ROOT PRUNING

UNIT	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	86+64.6		32.3	STAGE 1
1	88+43.1	143.5		STAGE 1
1	88+79.8	146.6		STAGE 1
1	88+99.5		119.1	STAGE 1
1	89+26.2		67.7	STAGE 1
1	89+29.3		43.2	STAGE 1
1	88+11.7	144.5		STAGE 2
1	89+97.7		35.1	STAGE 2
1	90+10.7		35.3	STAGE 2
1	90+18.4		34.9	STAGE 2
10	TOTAL			

20101700 SUPPLEMENTAL WATERING

UNIT	LOCATION	O/S	GAL/SQ YD	SQ YD	GAL	COMMENTS
0.2	86+64.6	32.3 RT	2	80	160	STAGE 1
0.2	88+43.1	143.5 LT	2	80	160	STAGE 1
0.2	88+79.8	146.6 LT	2	80	160	STAGE 1
0.2	88+99.5	119.1 RT	2	80	160	STAGE 1
0.2	89+26.2	67.7 RT	2	80	160	STAGE 1
0.2	89+29.3	43.2 RT	2	80	160	STAGE 1
0.2	88+11.7	144.5 LT	2	80	160	STAGE 2
0.2	89+97.7	35.1 RT	2	80	160	STAGE 2
0.2	90+10.7	35.3 RT	2	80	160	STAGE 2
0.2	90+18.4	34.9 RT	2	80	160	STAGE 2
1.6	TOTAL					

21400100 GRADING AND SHAPING DITCHES

FOOT	LOCATION	O/S	COMMENTS
50	STA. 84+50 TO 85+00	LT	
50	STA. 84+50 TO 85+00	RT	
100	TOTAL		

50105220 PIPE CULVERT REMOVAL

FOOT	LOCATION	O/S	COMMENTS
27	STA. 85+87.7 TO 86+14.3	LT	15" CMP
13	STA. 85+94.1 TO 86+07.0	RT	4" PVC
8	88+94.4	LT	4" PVC
48	TOTAL		

54213660 PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	85+77.9	26.1		DRIVE
1	86+24.1	27.0		DRIVE
1	85+40.0	RT		CEMETERY
1	85+60.0	RT		CEMETERY
4	TOTAL			

5421D012 PIPE CULVERTS, CLASS D, TYPE 1 12" (TEMPORARY)

FOOT	LOCATION	O/S	COMMENTS
25	87+04.0	RT	AT STABILIZED CONST ENTRANCE
25	87+60.0	LT	AT STABILIZED CONST ENTRANCE
25	89+85.0	RT	AT STABILIZED CONST ENTRANCE
25	89+85.0	LT	AT STABILIZED CONST ENTRANCE
30	6+00.0	CL	STAGE 1-DOWNSTREAM END OF CHANNEL
130	TOTAL		

542A0220 PIPE CULVERTS, CLASS A, TYPE 1 15"

FOOT	LOCATION	O/S	COMMENTS
20	86+00.0	LT	AT DRIVEWAY
22	85+50.0	RT	CEMETERY
42	TOTAL		

542D0211 PIPE CULVERTS, CLASS D, TYPE 1 6"

FOOT	LOCATION	O/S	REMARKS
24	88+93.0	RT	IRRIGATION STRUCTURE (STAGE 1)
24	TOTAL		

60100060 CONCRETE HEADWALLS FOR PIPE DRAINS

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	88+07.7	34.1		BIOSWALE OUTLET
1	88+24.5		26.0	BIOSWALE OUTLET
1	88+85.1	114.8		DRAIN OUTLET
2				NOMINAL FOR POTENTIAL UNDERCUT OUTLETS
5	TOTAL			

60100945 PIPE DRAINS 12"

FOOT	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
40	VAR			FIELD TILE REPAIR
40	TOTAL			NOMINAL AT DESCRETION OF ENGINEER

60107600 PIPE UNDERDRAINS 4"

FOOT	LOCATION	O/S	REMARKS
175.0		LT	UNDERCUT
175.0		RT	UNDERCUT
20.0		LT	OUTLET
20.0		RT	OUTLET
8		LT	DRAIN OUTLET
398	TOTAL		

INLETS, TYPE A, TYPE 1 FRAME, CLOSED LID

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	88+94.4	121.1		
2	VAR			FIELD TILE REPAIR (NOMINAL)
3	TOTAL			NOMINAL AT DESCRETION OF ENGINEER

60240215 INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	88+93.0		99.4	IRRIGATION STRUCTURE (STAGE 1)
1	TOTAL			

60801012 FLAP GATE 12"

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	87+82.0	115.0		ON OUTLET OF TEMPORARY CULVERT PIPE
1	TOTAL			

70300100 SHORT TERM PAVEMENT MARKING

FOOT	LOCATION	O/S	COMMENTS
80	STA. 85+87.7 TO 86+14.3	CL	DOUBLE 4" SKIP-DASH (STAGE 1)
55	STA. 85+94.1 TO 86+07.0	CL	DOUBLE 4" SKIP-DASH (STAGE 2)
135	TOTAL		

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

SQ FT	LOCATION	FOOT	WIDTH (INCH)	COMMENTS
27	STA. 85+87.7 TO 86+14.3	80	4	DOUBLE 4" SKIP-DASH (STAGE 1)
18	STA. 85+94.1 TO 86+07.0	55	4	DOUBLE 4" SKIP-DASH (STAGE 2)
45	TOTAL			

72400100 REMOVE SIGN PANEL ASSEMBLY - TYPE A

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	88+27.8		8.3	STAGE 2 WEIGHT LIMIT SIGN
1	88+86.6	14.2		STAGE 2
1	88+86.7		14.2	STAGE 2
1	89+31.1	14.4		STAGE 2
1	89.31.1		15.3	STAGE 2
1	OUTSIDE PROJ LIMITS			STAGE 2 WEIGHT LIMIT SIGN
6	TOTAL			

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USER NAME = mboldwin	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 2/2/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO. 1	OF 7 SHEETS	STA. TO STA.

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 10
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

72400500 RELOCATE SIGN PANEL ASSEMBLY - TYPE A

EACH	LOCATION	O/S (LT)	SQ. IN.	COMMENTS
1.0	88+20.0	RT		STAGE 1
1	TOTAL			

78200410 GUARDRAIL MARKERS, TYPE A

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	86+84.8		16.0	WHITE - ONE WAY
1	87+09.1	16.0		WHITE - ONE WAY
1	87+61.5		16.0	WHITE - ONE WAY
1	87+85.8	16.0		WHITE - ONE WAY
1	88+38.3		16.0	WHITE - ONE WAY
1	88+62.6	16.0		WHITE - ONE WAY
1	89+15.0		16.0	WHITE - ONE WAY
1	89+39.3	16.0		WHITE - ONE WAY
1	89+91.8		16.0	WHITE - ONE WAY
11				STAGE 1 - TEMPORARY TRANSITION
20	TOTAL			

78201000 TERMINAL MARKER - DIRECT APPLIED

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	86+38.7	17.0		STAGE 1
1	86+34.8		17.0	STAGE 1
1	89+76.6	20.0		STAGE 2
1	90+42.5		17.0	STAGE 2
4	TOTAL			

A2002916 TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2" CALIPER, BALLED AND BURLAPPED

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	87+51.9	145.6		CO ABBREVIATION IN PLANS (STAGE 2)
1	87+66.4	106.8		
1	87+81.9	144.3		
1	87+92.7	54.1		
1	88+32.5		88.0	
1	88+57.7		111.7	
1	88+61.3	119.2		
1	88+99.6	84.8		
1	89+08.6	54.4		
1	89+33.4	73.9		
10	TOTAL			

A2005016 TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2" CALIPER, BALLED AND BURLAPPED

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	87+39.1	119.3		GD ABBREVIATION IN PLANS (STAGE 2)
1	87+84.8	83.1		
1	88+21.4		59.2	
1	88+31.4	116.4		
1	88+59.9	89.3		
1	88+79.7	62.3		
1	88+90.6	112.9		
1	89+26.1	103.0		
8	TOTAL			

A2005116 TREE, JUGLANS NIGRA (BLACK WALNUT), 2" CALIPER, BALLED AND BURLAPPED

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	87+62.1	35.5		JN ABBREVIATION IN PLANS (STAGE 2)
1	89+38.0	39.1		
2	TOTAL			

K0013030 PERENNIAL PLANTS, WETLAND TYPE, 2" DIAMETER BY 4" DEEP PLUG

UNIT	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
20.0	CHANNEL			1 UNIT = 100 PLUGS
43.5	FLOODPLAIN			1 UNIT = 100 PLUGS
64.0	TOTAL			

X0323260 SEDIMENT BASIN

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	06+20.00	CREEK CL		SUMP PIT PAID AS SEDIMENT BASIN (STAGE 1)
1	TOTAL			

X2830495 AGGREGATE DITCH (SPECIAL)

TONS	AREA (SQ YD)	DEPTH (INCH)	VOLUME (CU YD)	CONVERSION RATE (TON/CY)	COMMENTS
507	674.8	15.0	281.2	1.8	TYPICAL CHANNEL
38	31.3	24.0	20.9	1.8	STREAM BNAK ENHANCEMENT
545	TOTAL				

X4021000 TEMPORARY ACCESS (PRIVATE ENTRANCE)

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	86+00.0	LT		DRIVEWAY ENTRANCE
1	90+00.0	LT		DRIVEWAY ENTRANCE
1	90+50.0	LT		DRIVEWAY ENTRANCE
3	TOTAL			

XX002982 GATE VALVES, 6"

EACH	LOCATION	O/S (LT)	O/S (RT)	COMMENTS
1	88+93.0		99.4	IRRIGATION STRUCTURE (STAGE 1)
1	TOTAL			

XX007958 DIVERSION STRUCTURE

EACH	LOCATION	O/S	COMMENTS
1	STA. 5+60 (CHANNEL)	CL	TO CONNECT DOWNSTREAM END OF PR CHANNEL (STAGE 2)
1	STA. 8+60 (CHANNEL)	CL	TO CONNECT UPSTREAM END OF PR CHANNEL (STAGE 2)
2	TOTAL		

Z0013797 STABILIZED CONSTRUCTION ENTRANCE

SQ YD	LOCATION	O/S	COMMENTS
50	87+04.0	RT	STAGE 1
50	87+60.0	LT	STAGE 1
53	89+85.0	RT	STAGE 1 & 2
46	89+85.0	LT	STAGE 2
200	TOTAL		

Z0066100 STABILIZATION FABRIC

SQ YD	AREA (SQ FT)	LENGTH (FT)	COMMENTS
291.1	2620.0	262.0	ALONG SOUTH BANK
292	TOTAL		

FILE NAME = W:\Projects\2012\1218184 - Franklinville\PHI\KAD00\N\Civil\N\dgn\Shr\Sched\LE_02.dgn



USER NAME = nparris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 1/30/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

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

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 11
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE – SUMMARY

STAGE 1 SUMMARY

LOCATION	EARTHWORK				TOPSOIL				SUBGRADE IMPROVEMENT		
	20200100			20400800	21101505			21101625	20201200	30300001	21001000
	EARTH EXCAVATION	EMBANKMENT	BALANCE WASTE (+) or SHORTAGE (-) FURNISHED EXCAVATION	FURISHED EXCAVATION	TOPSOIL EXCAVATION & PLACEMENT	TOPSOIL REQUIRED	BALANCE WASTE(+) OR SHORTAGE (-) (NO SHRINKAGE)	TOPSOIL FURNISH & PLACE, 6"	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	AGGREGATE SUBGRADE IMPROVEMENT	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(SQ YD)	(CU YD)	(CU YD)	(SQ YD)
MAINLINE	228.0	297.7	-103.9		234.4	175.2	59.2		44.1	44.1	132.4
EX. CHANNEL	77.3		65.7			14.3	-14.3				
PR. CHANNEL	1,405.8	46.4	1,148.5		220.1	98.1	122.0				
R.E. DESCRETION									50.0	50.0	
TOTAL	1,711.0	345.0	1,111.0		455.0	288.0	167.0		95.0	95.0	135.0

EARTHWORK GENERAL NOTES

ALL EARTHWORK QUANTITIES ARE CALCULATED BY THE METHOD OF AVERAGE END AREAS USING THE PLAN CROSS SECTIONS.

SHRINKAGE FACTOR, ASSUMED TO BE 15% FOR THIS PROJECT IS ESTIMATED FOR THE PURPOSE OF DETERMINING A BALANCE OF EARTHWORK. THE CONTRACTOR SHALL ESTIMATE HIS OWN SHRINKAGE FACTORS IN DETERMINING HIS EARTHWORK. NO PAYMENT WILL BE MADE ON EARTHWORK QUANTITIES DUE TO VARIATION IN THE SHRINKAGE FACTOR SINCE EARTHWORK IS MEASURED IN ITS FINAL POSITION.

NO SHRINKAGE FACTOR WAS APPLIED WHEN CALCULATING TOPSOIL QUANTITIES.

RECOMMENDATIONS OUTLINED IN THE STRUCTURE GEOTECHNICAL REPORT PREPARED BY TESTING SERVICE CORPORATION DATED SEPTEMBER 5, 2013 WAS USED IN PREPARATION OF THE ROADWAY PLANS AND RELATED QUANTITY CALCULATIONS.

SIX (6) INCHES OF TOPSOIL WAS ASSUMED ON THIS PROJECT FOR THE PURPOSE OF CALCULATING TOPSOIL STRIPPING QUANTITIES.

UNDERCUTS WILL BE PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. AFTER TOPSOIL STRIPPING AND VEGETATION CLEARING AND PRIOR TO UNDERCUTTING, THE SUBGRADE WILL BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER IN ACORDANCE WITH THE IDOT SUBGRADE STABILITY MANUAL TO DETERMINE REMEDIAL TREATMENT.

STAGE 2 SUMMARY

LOCATION	EARTHWORK				TOPSOIL				SUBGRADE IMPROVEMENT		
	20200100			20400800	21101505			21101625	20201200	30300001	21001000
	EARTH EXCAVATION	EMBANKMENT	BALANCE WASTE (+) or SHORTAGE (-) FURNISHED EXCAVATION	FURISHED EXCAVATION	TOPSOIL EXCAVATION & PLACEMENT	TOPSOIL REQUIRED	BALANCE WASTE(+) OR SHORTAGE (-) (NO SHRINKAGE)	TOPSOIL FURNISH & PLACE, 6"	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	AGGREGATE SUBGRADE IMPROVEMENT	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(SQ YD)	(CU YD)	(CU YD)	(SQ YD)
MAINLINE	108.3	672.8	-580.7	580.7	75.0	135.7	-60.7	364.3	184.4	184.4	553.3
EX. CHANNEL	104.2	275.1	-186.5	186.5		117.9	-117.9	707.5			
PR. CHANNEL	276.4	45.2	189.7	-189.7	36.9	186.1	-51.1	306.6			
R.E. DESCRETION									50.0	50.0	
TOTAL	489.0	994.0	-578.0	578.0	112.0	440.0	-230.0	1,379.0	235.0	235.0	555.0

TESTING OF SUBGRADES AND EMBANKMENTS WILL BE REQUIRED. TESTING REQUIRMENTS WILL BE PER THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND THE SUBGRADE STABILITY MANUAL. IF PROOF ROLLS ARE REQUIRED BY THE ENGINEER, THE COST SHALL BE CONSIDERED INCLUDED IN THE COST OF EXCAVATION.

IN ADDITION TO ANY AREAS SHOWN ON THE PLANS, 100 CY OF ADDITIONAL AGGREGATE SUBGRADE IMPROVEMENT (ASI) HAS BEEN PROVIDED FOR LOCATIONS WHERE SOILS ARE DETERMINED TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ASI WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE SOILS ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE STABILITY MANUAL AND ROLL USING FULL LOAD SEMI), IF UNSUITABLE AND/OR UNSTABLE MATERIALS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR.

EARTH AND TOPSOIL EXCAVATION SHALL BE PAID FOR ONLY ONCE, REGARDLESS OF STAGING OR SEQUENCING OF CONTRACTORS OPERATIONS THAT REQUIRE STOCKPILING OF MATERIALS FOR LATER USE FOR REDISTRIBUTION AND RESPREADING IN SHOULDERS AND CONSTRUCTING OF EMBANKMENTS.

TOPSOIL EXCAVATION AND PLACEMENT INCLUDES EXCAVATION, TRANSPORTING, AND TEMPORARILY STOCKPILING, TRANSPORTING FROM THE STOCKPILE AND PLACING THE TOPSOIL TO THE THICKNESS SPECIFIED IN ITS FINAL POSITION.

FILE NAME: M:\Projects\2012\120184 - F:\mkt\inv\11\p\11\CAD\DWG\Civil\N\dgn\Sht\SCH\SCH.DWG

REMOVAL SCHEDULE

LOCATION	40600982	44000100	44000166	44000200	44201796	63200310
	HOT-MIX ASPH/AT SURFACE REMOVAL BUTTJOINT	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, 4 1/4"	DRIVEWAY PAVEMENT REMOVAL	CLASS D PATCHES, TYPE IV, 12 INCH	GUARDRAIL REMOVAL
	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(FOOT)
MAINLINE						
84+00 84+50						
84+50 85+00						
85+00 85+50		135.8				
85+50 86+00		134.4		20.4		
86+00 86+50		134.3		24.0		
86+50 87+00		134.2				
87+00 87+50		134.2				
87+50 87+88		101.7				
87+88 88+18		80.3				
BRIDGE						
88+72 89+02		145.4			21.2	237.7
89+02 89+50		105.5				
89+50 90+00		135.4		23.7		
90+00 90+50		137.5		24.9		
90+50 91+00		78.1		25.0		
91+00 91+50		4.9				
91+50 92+00						
92+00 92+50						
RESURFACE						
90+50 91+00			67.7			
91+00 91+50			135.2			
91+50 92+00	40.8		134.7			
92+00 92+50			70.9			
TEMPORARY CONNECTION						
						70.0
TOTAL	40.8	1461.7	408.5	118.0	21.2	307.7
ADJUSTED TOTAL	41.0	1462.0	409.0	118.0	22.0	308.0

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116 West Main Street, Suite 201
St. Charles, Illinois 60174

USER NAME = nparris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 1/30/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	MCHENRY	91	14
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

PAVEMENT SCHEDULE

LOCATION	30300112	31101200	35501300	40600275	40603085	406003340	42001430	48101500	48203017	X4811700	Z0066400
	AGGREGATE SUBGRADE IMPROVEMENT, 12"	SUBBASE GRANULAR MATERIAL, TYPE B 4"	HOT-MIX ASPHALT BASE COURSE, 4"	BITUMINOUS MATERIALS (PRIME COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	AGGREGATE SHOULDERS, TYPE B 6"	HOT-MIX ASPHALT SHOULDERS, 5"	AGGREGATE SHOULDERS (SPECIAL)	STABILIZED DRIVEWAYS 6"
	(SQ YD)	(SQ YD)	(TON)	(POUND)	(TON)	(TON)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)
MAINLINE											
84+00	84+50										
84+50	85+00										
85+00	85+50	186.3		6.4	576.7	37.3			41.8		
85+50	86+00	178.0	29.9		645.8	37.3			35.8		28.7
86+00	86+50	200.6	31.2	6.7	720.8	37.3			57.6		30.0
86+50	87+00	225.2			698.7	37.3			79.9		
87+00	87+50	222.2			690.6	37.3			77.8		
87+50	87+88	134.1			415.5	21.4	43.4			0.6	
87+88	88+18	2.2			6.5					5.7	
BRIDGE											
88+72	89+02	14.6			43.8	0.9	6.9	16.5	9.1	5.6	
89+02	89+50	211.3			656.1	35.5	36.5		74.0		
89+50	90+00	223.2		5.8	777.2	37.3			80.0		25.7
90+00	90+50	168.3	26.5	4.0	611.9	37.3			57.8		17.9
90+50	91+00	87.5	20.0	5.9	356.6	18.7			16.4		26.3
91+00	91+50		27.3								
91+50	92+00										
92+00	92+50										
RESURFACE											
90+50	91+00					8.9	8.4		11.1		
91+00	91+50					16.9	16.9		22.2		
91+50	92+00					16.9	16.9		22.2		
92+00	92+50					8.9	8.9		17.9		
TOTAL		1853.5	134.9	28.8	6200.2	389.2	388.7	86.8	89.9	530.2	12.6
ADJUSTED TOTAL		1854.0	135.0	29.0	6201.0	390.0	389.0	87.0	90.0	531.0	13.0

GUARDRAIL & PAVEMENT MARKING SCHEDULE

LOCATION	63000001	63100087	63100167	63100169	70500100	70500685	78000200	78008210
	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6A	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	TEMPORARY STEEL PLATE BEAM GUARDRAIL, TYPE A	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 10	THEROMO-PLASTIC PAVEMENT MARKING LINE 4"	POLYUREA PAVEMENT MARKING TYPE 1 LINE 4"
	(FOOT)	(EACH)	(EACH)	(EACH)	(FOOT)	(EACH)	(FOOT)	(FOOT)
MAINLINE								
84+00	84+50							
84+50	85+00						110.0	
85+00	85+50						120.0	
85+50	86+00						110.0	
86+00	86+50						110.0	
86+50	87+00	37.9					110.0	
87+00	87+50	95.5					120.0	
87+50	87+88	4.1					57.4	
87+88	88+18		2.0	2.0				70.0
BRIDGE								
88+72	89+02		2.0	1.0	1.0	51.5	2.0	136.6
89+02	89+50					11.0	2.0	70.0
89+50	90+00	28.0						
90+00	90+50	47.0						
90+50	91+00							
91+00	91+50							
91+50	92+00							
92+00	92+50							
TOTAL		212.5	4.0	3.0	1.0	62.5	4.0	1466.7
ADJUSTED TOTAL		212.5	4.0	3.0	1.0	62.5	4.0	1467.0

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PLOT SCALE = 1:1	DRAWN - NDP	REVISED -
PLOT DATE = 1/30/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 15
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

SEEDING SCHEDULE

LOCATION	25000210	25000312	25000350	25000400	25000600	XX006622	Z0068900
	SEEDING, CLASS 2A	SEEDING, CLASS 4A	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT (SEE NOTE)	POTASSIUM FERTILIZER NUTRIENT (SEE NOTE)	EMERGENT / SHORELINE SEED MIX	STONE LINED DITCH (BIOSWALE)
	(ACRE)	(ACRE)	(ACRE)	(POUND)	(POUND)	(ACRE)	(SQ YD)
MAINLINE							
84+00	84+50						
84+50	85+00	0.03			2.7	2.7	
85+00	85+50	0.04			3.8	3.8	
85+50	86+00	0.04			3.4	3.4	
86+00	86+50	0.03	0.01		2.9	2.9	22.3
86+50	87+00		0.03	0.01	4.1	4.1	22.2
87+00	87+50		0.03	0.04	3.9	3.9	24.5
87+50	87+88		0.02	0.06	5.6	5.6	33.8
87+88	88+18		0.01	0.07	9.6	9.6	13.0
BRIDGE							
88+72	89+02	0.02	0.00	0.09	11.2	11.2	0.13
89+02	89+50	0.09	0.01	0.01	10.0	10.0	0.13
89+50	90+00	0.01	0.02		15.3	15.3	0.02
90+00	90+50	0.01	0.02		4.7	4.7	
90+50	91+00	0.02	0.02		8.7	8.7	
91+00	91+50				1.6	1.6	
91+50	92+00						
92+00	92+50						
TOTAL		0.30	0.16	0.27	87.5	87.5	115.8
ADJUSTED TOTAL		0.50	0.25	0.50	88.0	88.0	116.0

NOTE: ONLY CLASS 2A SEED REQUIRES FERTILIZER NUTRIENTS

EROSION & SEDIMENT CONTROL SCHEDULE

LOCATION	25100630	25100635	28000250	28000315	28000400	28000500	28001100	28100105	28100107	28200200	X2800302	XX006277
	EROSION CONTROL BLANKET	HEAVY DUTY EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING (SEE NOTE)	AGGREGATE DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	TEMPORARY EROSION CONTROL BLANKET	STONE RIPRAP, CLASS A3	STONE RIPRAP, CLASS A4	FILTER FABRIC	TEMPORARY DITCH CHECKS (SPECIAL)	TEMPORARY SEDIMENT TRAP
	(SQ YD)	(SQ YD)	(POUND)	(TON)	(FOOT)	(EACH)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(FOOT)	(EACH)
MAINLINE												
84+00	84+50											
84+50	85+00	146.8			99.5						28.0	
85+00	85+50	202.8			100.0	1.0					14.0	
85+50	86+00	182.3			92.4						14.0	
86+00	86+50	196.3			122.4			6.6		6.6	28.0	
86+50	87+00	227.6			106.3						14.0	
87+00	87+50	482.4	5.0	0.1	287.8							
87+50	87+88	653.5	41.3	0.3	327.5						14.0	
87+88	88+18	763.8	41.0	0.3	148.6	2.4					28.0	
BRIDGE												
88+72	89+02	1045.3	71.9	1.0	360.0				351.0	351.0		
89+02	89+50	1183.0	19.8	0.7	384.0							
89+50	90+00	366.8	2.8	4.3	587.9						14.0	
90+00	90+50	157.1		2.5	137.4							
90+50	91+00	85.1			50.0						28.0	
91+00	91+50				25.0							
91+50	92+00											
92+00	92+50											
MAINTENANCE												
		500.0	50.0			1.0	200.0	1.0				
IN WATERWAY												
					2.1							
NOMINAL												
				505.5			3000.0					6.0
TOTAL		6192.8	231.8	514.7	5.5	3028.8	2.0	3000.0	6.6	351.0	357.6	182.0
ADJUSTED TOTAL		6193.0	232.0	515.0	6.0	3029.0	2.0	3000.0	7.0	351.0	358.0	182.0

NOTE: CALCULATIONS BASED ON 5 APPLICATIONS TO ALL SEEDING AREAS

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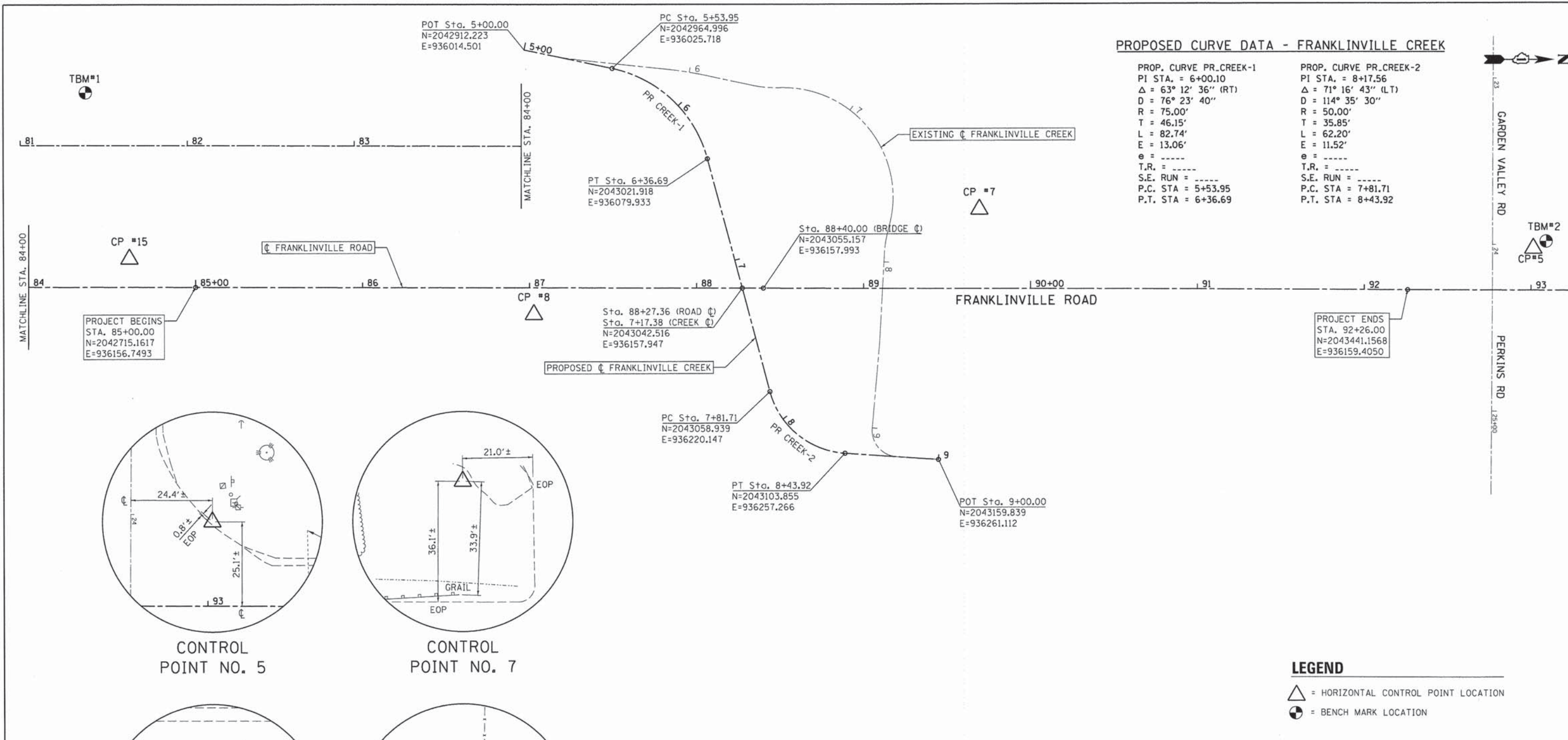
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	MCHENRY	91	16
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

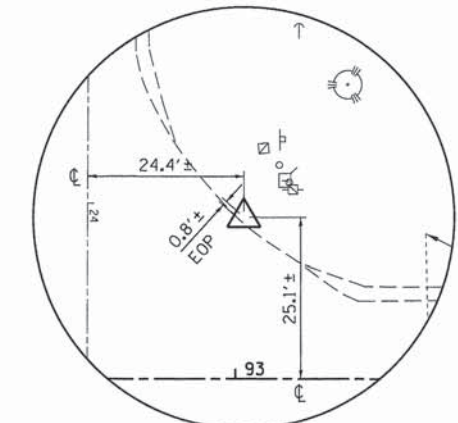


PROPOSED CURVE DATA - FRANKLINVILLE CREEK

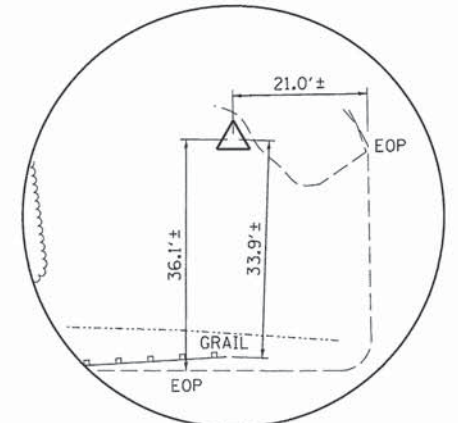
PROP. CURVE PR_CREEK-1	PROP. CURVE PR_CREEK-2
PI STA. = 6+00.10	PI STA. = 8+17.56
Δ = 63° 12' 36" (RT)	Δ = 71° 16' 43" (LT)
D = 76° 23' 40"	D = 114° 35' 30"
R = 75.00'	R = 50.00'
T = 46.15'	T = 35.85'
L = 82.74'	L = 62.20'
E = 13.06'	E = 11.52'
e = -----	e = -----
T.R. = -----	T.R. = -----
S.E. RUN = -----	S.E. RUN = -----
P.C. STA = 5+53.95	P.C. STA = 7+81.71
P.T. STA = 6+36.69	P.T. STA = 8+43.92

PROJECT BEGINS
STA. 85+00.00
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E=936156.7493

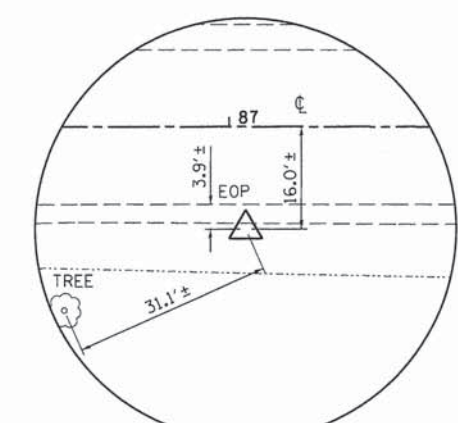
PROJECT ENDS
STA. 92+26.00
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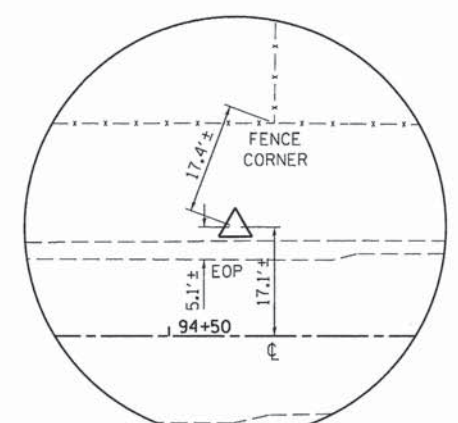
CONTROL POINT NO. 5



CONTROL POINT NO. 7



CONTROL POINT NO. 8



CONTROL POINT NO. 15

LEGEND

- △ = HORIZONTAL CONTROL POINT LOCATION
- ⊙ = BENCH MARK LOCATION

BENCH MARKS (NAVD 88)

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
TBM 1	2042354.165	936123.854	835.77	PR_FRANK	81+38.89	31.6' LT	RAILROAD SPIKE (SET) IN POWER POLE
TBM 2	2043524.276	936130.220	837.27	PR_FRANK	93+09.11	29.8' LT	RAILROAD SPIKE (SET) IN POWER POLE

HORIZONTAL CONTROL POINTS (NAD 83)

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
5	2043516.569	936134.540	836.53	PR_FRANK	93+01.41	25.06' LT	SET IRON ROD W/ CAP
7	2043184.668	936110.716	834.12	PR_FRANK	89+69.33	47.75' LT	SET IRON ROD W/ CAP
8	2042917.722	936173.522	834.40	PR_FRANK	87+02.62	16.03' RT	SET IRON ROD W/ CAP
15	2042675.566	936139.555	834.85	PR_FRANK	84+60.34	17.05' LT	SET IRON ROD W/ CAP

••ELEVATIONS FOR CONTROL POINTS ARE SUBJECT TO CHANGE. CONTRACTOR SHALL FIELD VERIFY ELEVATIONS FROM BENCHMARKS.

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St. Charles, Illinois 60174

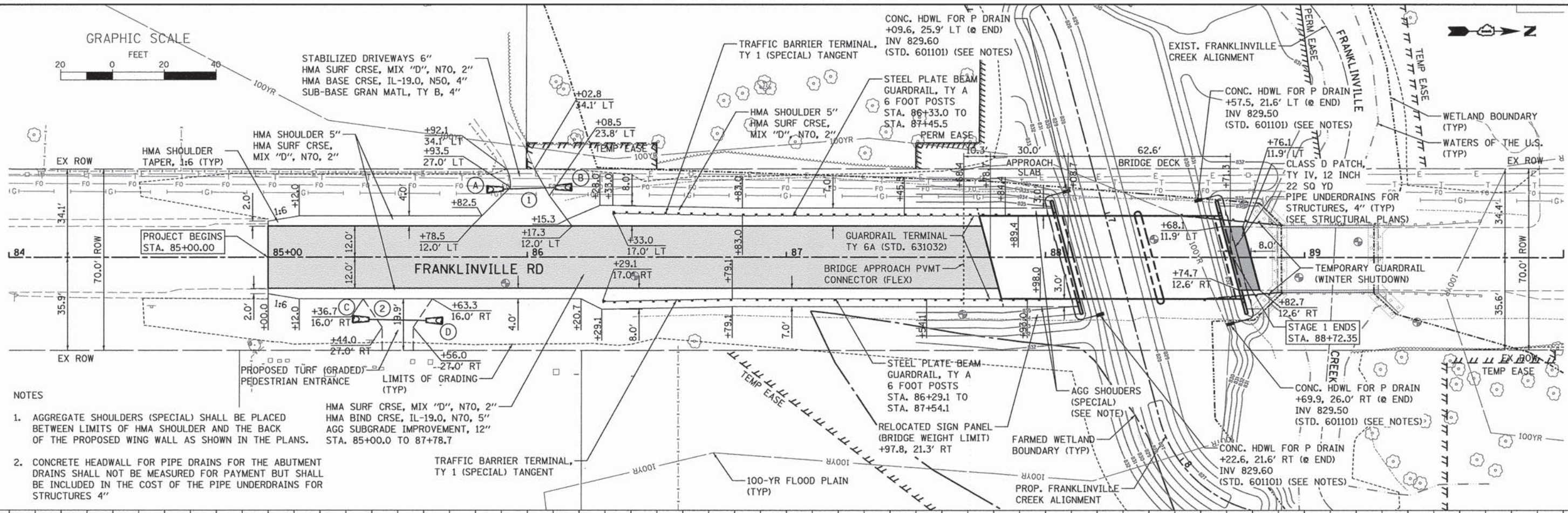
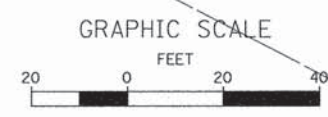
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	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES & BENCHMARKS

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

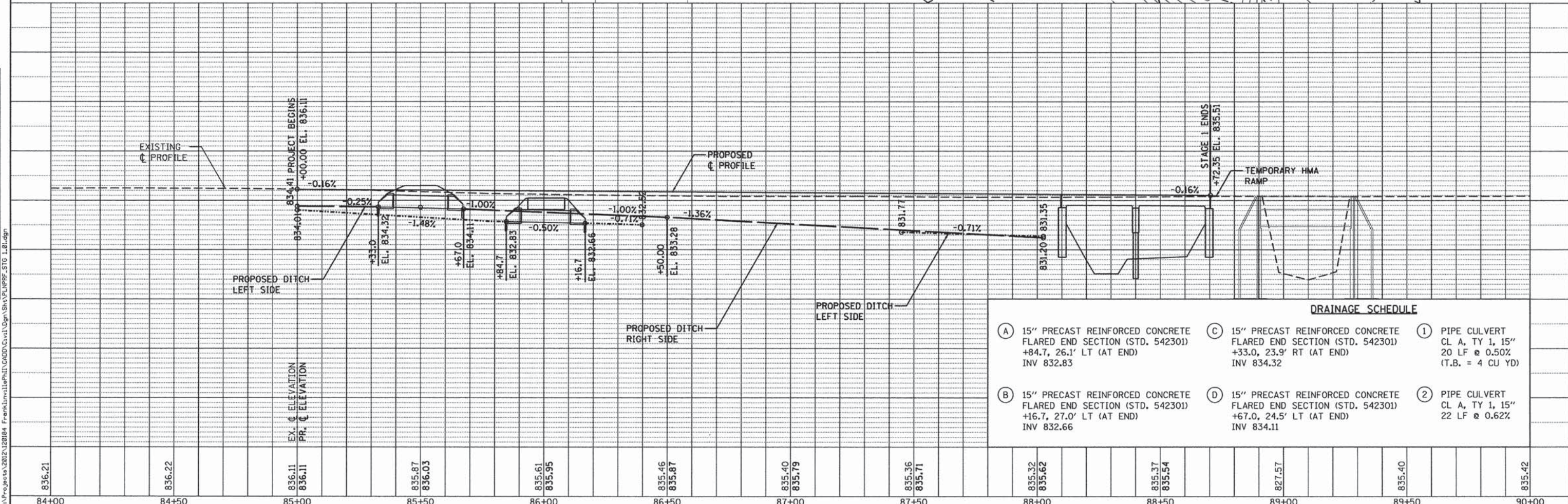
F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 17
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				



- NOTES
- AGGREGATE SHOULDERS (SPECIAL) SHALL BE PLACED BETWEEN LIMITS OF HMA SHOULDER AND THE BACK OF THE PROPOSED WING WALL AS SHOWN IN THE PLANS.
 - CONCRETE HEADWALL FOR PIPE DRAINS FOR THE ABUTMENT DRAINS SHALL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS FOR STRUCTURES 4"

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	



DRAINAGE SCHEDULE

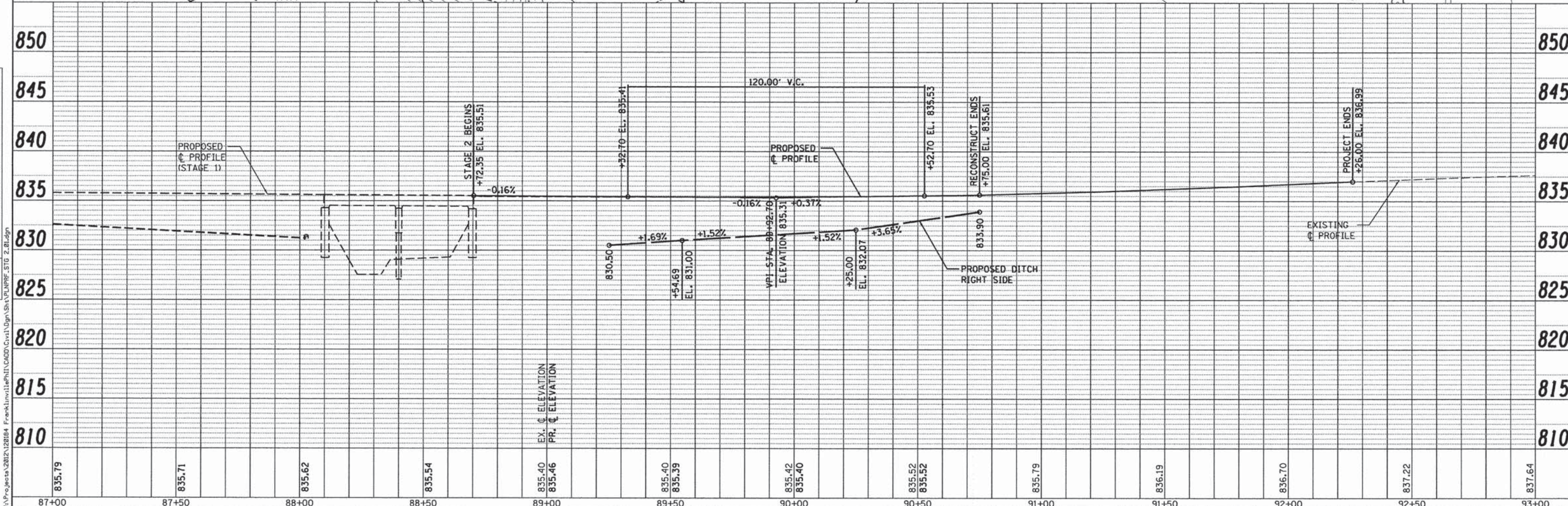
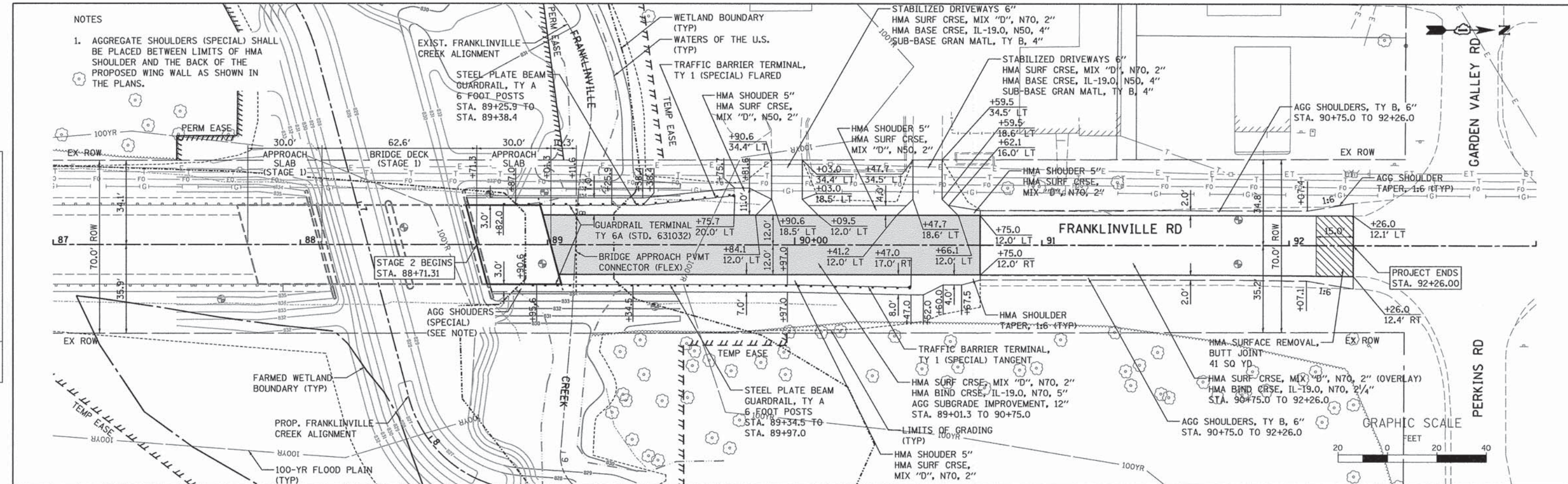
(A) 15" PRECAST REINFORCED CONCRETE FLARED END SECTION (STD. 542301) +84.7, 26.1' LT (AT END) INV 832.83	(C) 15" PRECAST REINFORCED CONCRETE FLARED END SECTION (STD. 542301) +33.0, 23.9' RT (AT END) INV 834.32	(1) PIPE CULVERT CL A, TY 1, 15" 20 LF @ 0.50% (T.B. = 4 CU YD)
(B) 15" PRECAST REINFORCED CONCRETE FLARED END SECTION (STD. 542301) +16.7, 27.0' LT (AT END) INV 832.66	(D) 15" PRECAST REINFORCED CONCRETE FLARED END SECTION (STD. 542301) +67.0, 24.5' LT (AT END) INV 834.11	(2) PIPE CULVERT CL A, TY 1, 15" 22 LF @ 0.62%

NOTES

1. AGGREGATE SHOULDERS (SPECIAL) SHALL BE PLACED BETWEEN LIMITS OF HMA SHOULDER AND THE BACK OF THE PROPOSED WING WALL AS SHOWN IN THE PLANS.

DATE	BY
DATE	BY
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DATE	BY
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DATE	BY



87+00	87+50	88+00	88+50	89+00	89+50	90+00	90+50	91+00	91+50	92+00	92+50	93+00
835.79	835.71	835.62	835.54	835.40 835.46	835.40 835.39	835.42 835.40	835.52 835.52	835.79	836.19	836.70	837.22	837.64

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 116 West Main Street, Suite 201
 St. Charles, Illinois 60174

USER NAME = mbaldwin	DESIGNED - MNB	REVISED -
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PLOT DATE = 2/5/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN & PROFILE - STAGE 2	
SCALE: 1"=20'	SHEET NO. 2 OF 2 SHEETS
STA. 88+72.35 TO STA. 90+75.00	

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 21
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

NOTES

1. THE EXISTING INVERT SHALL BE VERIFIED IN THE FIELD AND THE PROPOSED INVERT SHALL BE CONSTRUCTED TO MATCH.
2. THE GROUND AROUND THE UNDERDRAIN AND CONCRETE HEADWALL SHALL BE GRADED SUCH THAT THERE IS SUFFICIENT COVER OVER THE PIPE AND AROUND THE HEADWALL.

INLET, TY A, 2' DIA.
W/ TY 1 F&G, CL
+94.4, 121.1' LT
RIM 833.00
INV 830.10
INV 830.10
(SEE NOTES)

PIPE UNDERDRAIN, 4"
8 LF @ 0.0%

CONC HDWL FOR P DRAIN
+85.1, 114.8' LT (AT END)
INV 830.10
(STD. 601101)

EX. FRANKLINVILLE CREEK ALIGNMENT

PROPOSED CONTOURS (TYP)

PROPOSED FRANKLINVILLE CREEK

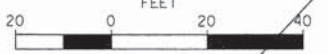
PR. FRANKLINVILLE CREEK RE-ALIGNMENT

LIMITS OF GRADING (TYP)

FRANKLINVILLE RD

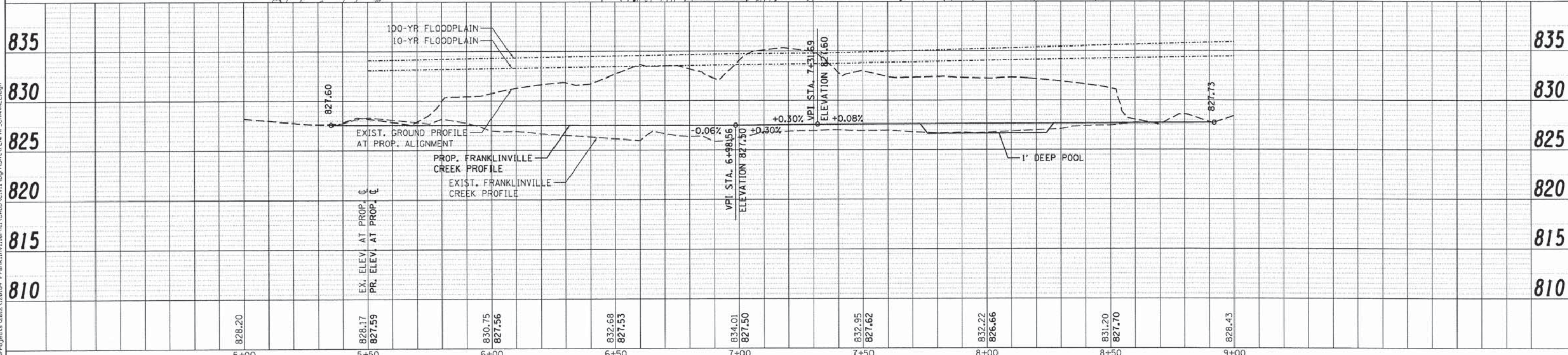
FARMED WETLAND BOUNDARY (TYP)

GRAPHIC SCALE



PLAN	DATE
NO.	
BY	
DATE	
SURVEYED	
ALIGNED	
CHECKED	
RT. OF WAY CHECKED	
NO.	
BY	
DATE	

PROFILE	DATE
NO.	
BY	
DATE	
SURVEYED	
CHECKED	
B.M. NOTED	
STRUCTURE NOTATIONS	
NO.	
BY	
DATE	



5+00	5+50	6+00	6+50	7+00	7+50	8+00	8+50	9+00
828.20	828.17 827.59	830.75 827.56	832.68 827.53	834.01 827.50	832.95 827.62	832.22 826.66	831.20 827.70	828.43

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USER NAME = nparris	DESIGNED - MNB	REVISED -
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	DATE - 02/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
CHANNEL

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

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 22
CONTRACT NO. 61B25				ILLINOIS FED. AID PROJECT

GENERAL NOTES:

1. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN AGGREGATE SURFACE COURSE FOR TEMPORARY ACCESS TO PRIVATE ENTRANCES. THE TEMPORARY CLOSURE OF PRIVATE ENTRANCES WILL BE LIMITED TO THE DURATION OF THE CONSTRUCTION DIRECTLY IN FRONT OF THE ENTRANCE. THE ENTRANCE(S) SHALL BE OPEN AT THE END OF THE WORK DAY OR AS APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL COORDINATE CLOSURES WITH THE ENGINEER AND PROPERTY OWNER A MINIMUM OF SEVEN (7) DAYS IN ADVANCE OF THE CLOSURE.
2. AGGREGATE SURFACE FOR TEMPORARY ACCESS WILL BE MEASURED FOR PAYMENT FOR EACH PRIVATE ENTRANCE CONSTRUCTED FOR THE PURPOSE OF TEMPORARY ACCESS. TEMPORARY AGGREGATE SURFACE COURSE SHALL BE PAID FOR AT THE CONTRACT UNIT COST EACH FOR TEMPORARY ACCESS (PRIVATE ENTRANCE).
3. THE TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES, AS SPECIFIED BY THE SPECIAL PROVISIONS, SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL PROVISIONS, SHALL BE INCLUDED IN THE COST OF THE PAY ITEM TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

TEMPORARY DETOUR DURATION

THE DETOUR SHOWN IN THE PLANS WILL OCCUR TWICE, ONCE FOR BOTH STAGES 1 AND 2. THE DURATION OF THE CLOSURES IS DETAILED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR WILL BE EXPECTED TO COMPLETE ALL OF THE WORK SHOWN IN THE PROPOSED PLAN SHEET FOR THE RESPECTIVE STAGE. THE ROADWAY WILL BE OPEN DURING WINTER SHUTDOWN AND WILL NEED TO HAVE THE HMA SURFACE COURSE PLACED AND A BUTT JOINT AT THE NORTH LIMITS OF THE PROPOSED BRIDGE PRIOR TO THE ROADWAY BEING OPENED TO TRAFFIC. IF THE SURFACE COURSE AND GUARDRAIL ARE NOT COMPLETED IN THE ALLOWED TIME, ADDITIONAL TRAFFIC CONTROL DEVICES REQUIRED FOR THE COMPLETION OF REMAINING CONSTRUCTION OPERATIONS WILL BE AT THE CONTRACTOR'S EXPENSE.

CHANGEABLE MESSAGE SIGN

A CHANGEABLE MESSAGE SIGN WILL BE PLACED AT EACH END OF THE PROJECT FOR THE DURATION OF CONSTRUCTION AND SHALL BE REMOVED DURING WINTER SHUT DOWN. THE FINAL LOCATION OF EACH SIGN SHALL BE DETERMINED IN THE FIELD.

TEMPORARY INFORMATION SIGN

THE CONTRACTOR SHALL ERECT A TEMPORARY INFORMATION SIGN ON THE NORTH AND SOUTH SIDES OF THE PROJECT TO INFORM THE PUBLIC OF THE CONSTRUCTION DURATION. THE CONTRACTOR WILL COORDINATE WITH THE ENGINEER ON THE EXACT PLACEMENT OF THE SIGN. THE SIGN SHALL BE IN PLACE FOR THE ENTIRE DURATION OF THE CONTRACT OR AS DIRECTED BY THE ENGINEER. THE TEMPORARY SIGN WILL BE AS DIMENSIONED AND DETAILED ON THE DETOUR PLAN. THE SIGNING, WHICH INCLUDES POST AND MOUNTING, WILL BE PAID AS TEMPORARY INFORMATION SIGNING, PER SQ FT FOR EACH SIGN ERECTED. THE SIGN SHALL BE UPDATED IF THE ANTICIPATED DETOUR DATES CHANGE AT NO ADDITIONAL COST TO THE CONTRACT.

CONTACTS

THE CONTRACTOR WILL BE REQUIRED TO COORDINATE ALL MAINTENANCE OF TRAFFIC OPERATIONS WITH ALL MUNICIPALITIES, TOWNSHIP, AND COUNTY ENTITIES WITHIN THE PROJECT LIMITS. THE FOLLOWING IS THE APPLICABLE LIST OF CONTACTS:

MCHENRY COUNTY DIVISION OF TRANSPORTATION	WALTER DITTRICH, P.E.	815-334-4960
MCHENRY COUNTY SHERIFF	WILLIAM PRIM, COUNTY SHERIFF	815-338-2144
MCHENRY CO. OFFICE OF EMERGENCY MANAGEMENT	MICHAEL HILL, PUBLIC HEALTH ADMINISTRATOR	815-334-4510
SENECA TOWNSHIP HIGHWAY DEPARTMENT	SCOTT SWANSON, ROAD COMMISSIONER	815-923-2288
MARENGO FIRE PROTECTION DISTRICT	ROBERT S. BRADBURY, FIRE CHIEF	815-568-8912
UNION FIRE PROTECTION DISTRICT	RICKY KIESER, FIRE CHIEF	815-923-4488
WOODSTOCK FIRE RESCUE DISTRICT	RALPH WEBSTER, FIRE CHIEF	815-338-2621
WOODSTOCK SCHOOL DISTRICT 200	MICHAEL MOAN, EdD, SUPERINTENDENT OF SCHOOLS	815-338-8200
ILLINOIS DEPARTMENT OF TRANSPORTATION	ANDREW SCHUTZE, TRAFFIC CONTROL SUPERVISOR	847-705-4470

LIMITATIONS OF CONSTRUCTION

THE CONTRACTOR SHALL COORDINATE THE ITEMS OF WORK IN ORDER TO KEEP HAZARDS AND TRAFFIC INCONVENIENCES TO A MINIMUM, AS SPECIFIED BELOW:

1. IF THERE ARE CONSTRUCTION OPERATION COMPLETE OUTSIDE OF THE DURATION OF THE ROADWAY CLOSURE, THOSE CONSTRUCTION OPERATIONS WILL BE CONDUCTED SO ONE LANE IN EACH DIRECTION ON FRANKLINVILLE ROAD REMAIN OPEN AT ALL TIMES.
2. THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN ALL THE NECESSARY SIGNS, BARRICADES, CONES, DRUMS, AND LIGHTS FOR THE WARNING AND PROTECTION OF TRAFFIC, AS REQUIRED BY SECTIONS 107 AND 701 THROUGH 703 OF THE STANDARD SPECIFICATIONS, AND AS MODIFIED.
3. THE CONTRACTOR SHALL FURNISH AND ERECT "ROAD CONSTRUCTION AHEAD" SIGNS (W20-1103 (O)-4B) AT BOTH ENDS OF THE PROJECT AND AT ALL SIDE ROADS WITHIN THE LIMITS OF THIS SECTION WHEN WORKING IN THE VICINITY OF THE SIDE ROAD INTERSECTION.

OFF-PEAK HOURS

FOR CONSTRUCTION OPERATIONS OUTSIDE THE DESIGNATED DETOUR PERIOD, THE "OFF-PEAK" HOURS ARE DEFINED AS THE DAYTIME HOURS FROM 9:00 A.M. TO 3:00 P.M. AND NIGHT TIME HOURS FROM 9:00 P.M. TO 6:00 A.M., MONDAY THROUGH FRIDAY. THE CONTRACTOR MAY REQUEST IN WRITING FOR THESE HOURS TO BE EXTENDED.

KEEPING ROADS OPEN TO TRAFFIC

THE CONTRACTOR SHALL SCHEDULE HIS SEQUENCE OF OPERATIONS TO PERMIT THE CONSTRUCTION OF THIS SECTION WITH THE LEAST INCONVENIENCE TO THE TRAVELING PUBLIC. THE CONTRACTOR'S SCHEDULE SHALL REFLECT THE FOLLOWING REQUIREMENTS AND SEQUENCE OF CONSTRUCTION. THESE REQUIREMENTS FOLLOW THE SUGGESTED TRAFFIC CONTROL PLAN INCLUDED IN THE DRAWINGS.

1. FRANKLINVILLE ROAD MAY BE COMPLETELY CLOSED TO TRAFFIC FOR THE DURATION SPECIFIED IN THE CONTRACT DOCUMENTS, BUT SHALL BE OPEN TO THE PUBLIC DURING WINTER SHUTDOWN.

STAGE 1 (2015): JUNE 8-SEPTEMBER 4
STAGE 2 (2016): JUNE 13-JULY 29

SEQUENCE OF CONSTRUCTION

IN GENERAL, THE STAGING OF CONSTRUCTION FOR THIS SECTION SHALL BE AS FOLLOWS:

MAJOR WORK ITEMS - STAGE 1 (ROADWAY CLOSURE) FRANKLINVILLE ROAD, BRIDGE TO SOUTH LIMITS, WITH PROPOSED CHANNEL GRADING

- COORDINATE UTILITY RELOCATES
- SET UP TEMPORARY INFORMATION SIGNS
- SET UP DETOUR AS DETAILED IN THE PLANS
- SET UP TEMPORARY EROSION CONTROL MEASURES
- REMOVE EXISTING PAVEMENTS (SEE REMOVAL PLANS FOR LIMITS)
- CONSTRUCT THE PROPOSED BRIDGE, SUBGRADE, AGGREGATE BASE COURSES (TO LIMITS SHOWN IN PLANS)
- CONSTRUCT ENTRANCE CULVERTS AND UNDERDRAINS (SOUTH OF THE BRIDGE)
- CONSTRUCT SHOULDERS AND PAVEMENTS (TO SURFACE, TO LIMITS SHOWN ON PLANS)
- CONSTRUCT A FULL DEPTH PATCH AT THE NORTH LIMITS OF THE BRIDGE CONSTRUCTION FOR WINTER SHUT DOWN
- PLACE PAVEMENT MARKINGS
- CONSTRUCT GUARDRAILS (ON SOUTH SIDE OF THE BRIDGE)
- COVER OR UNINSTALL ALL UNNECESSARY SIGNS

WINTER SHUT DOWN

- UNCOVER OR REINSTALL ALL NECESSARY SIGNS
- OPEN ROADWAY TO TRAFFIC
- REMOVE DETOUR

MAJOR WORK ITEMS - STAGE 2 (ROADWAY CLOSURE) FRANKLINVILLE ROAD, NORTH SIDE OF THE BRIDGE, CONNECT CHANNEL

- SET UP TEMPORARY INFORMATION SIGNS
- SET UP DETOUR AS DETAILED IN THE PLANS
- SET UP TEMPORARY EROSION CONTROL MEASURES
- REMOVE EXISTING PAVEMENTS AND BRIDGE STRUCTURE (SEE REMOVAL PLANS FOR LIMITS)
- CONSTRUCT THE PROPOSED SUBGRADE AND AGGREGATE BASE COURSES (TO LIMITS SHOWN IN PLANS)
- CONSTRUCT ENTRANCE CULVERTS AND UNDERDRAINS (NORTH OF THE BRIDGE)
- CONSTRUCT SHOULDERS AND PAVEMENTS (TO SURFACE, TO LIMITS SHOWN ON PLANS)
- CONSTRUCT GUARDRAILS (ON NORTH SIDE OF THE BRIDGE)
- PLACE PERMANENT RESTORATION
- PLACE GUARDRAIL MARKER
- PLACE PERMANENT PAVEMENT MARKINGS**
- FINALIZE PUNCH LIST AND SITE CLEANUP

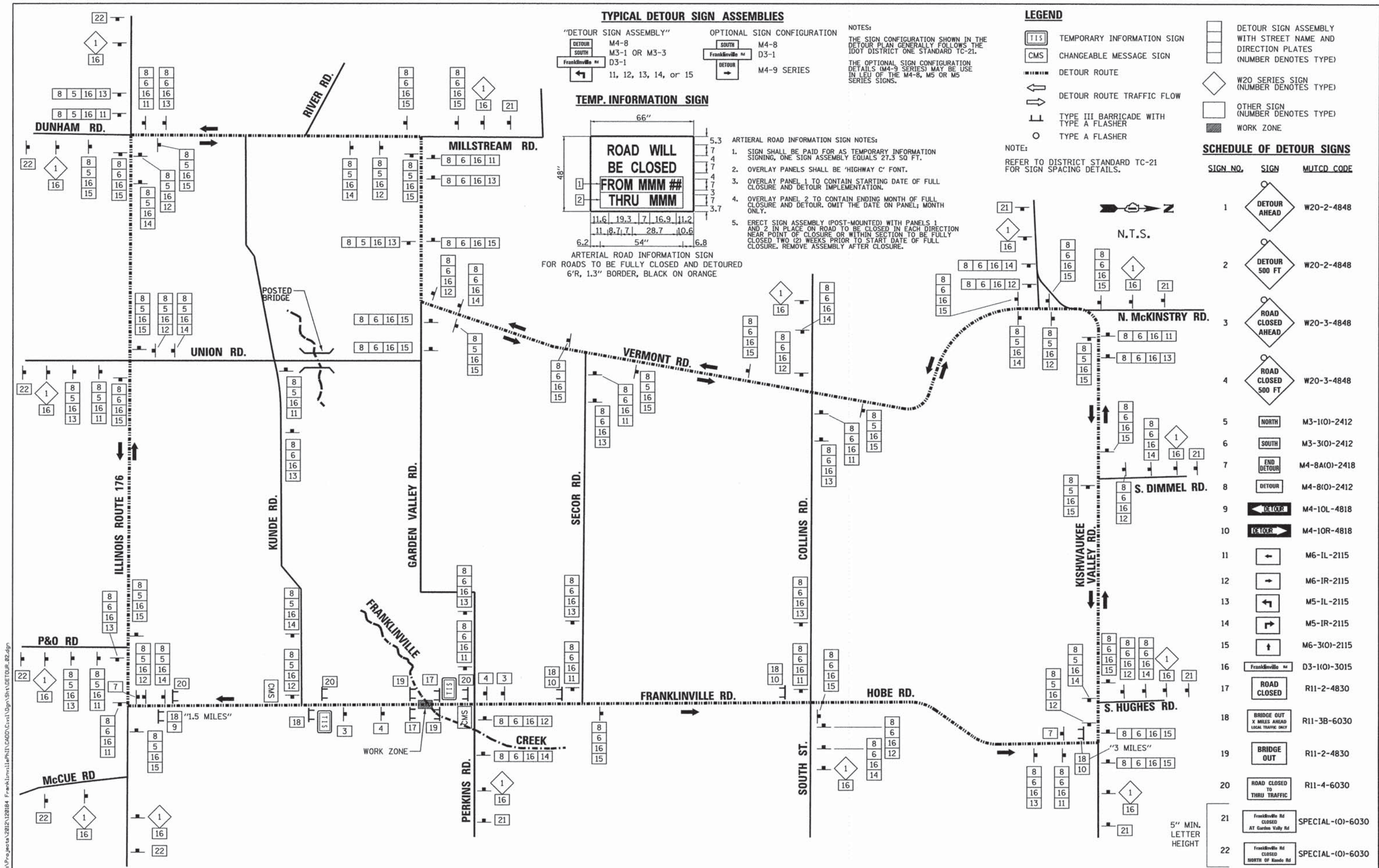
- ALL SEEDING AND PLANTING SHALL BE IN ACCORDANCE WITH THE DATES IN THE STABILIZATION SCHEDULE PROVIDED IN THE EROSION AND SEDIMENT CONTROL PLANS, UNLESS APPROVED BY THE ENGINEER. LIMITS AND TYPE OF STABILIZATION ARE INDICATED IN THE STABILIZATION AND RESTORATION PLAN SHEETS.
- IF CONTRACTOR ELECTS TO COMPLETE PERMANENT PAVEMENT MARKING OUTSIDE OF THE CLOSURE PERIOD, THEN THE CONTRACTOR SHALL PLACE THE APPROPRIATE TEMPORARY PAVEMENT MARKINGS. ALL MARKINGS ON THE PERMANENT SURFACES SHALL BE TAPE. THERE WILL BE NO ADDITIONAL COMPENSATION FOR THE TEMPORARY PAVEMENT MARKINGS.

TRAFFIC CONTROL - IDOT STANDARD DRAWINGS

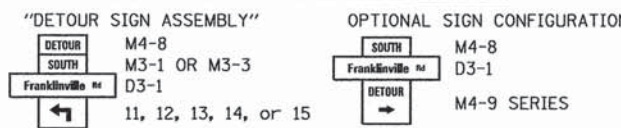
THE CONTRACTOR'S OPERATION MAY REQUIRE WORK THAT WILL NOT BE COMPLETED UNDER THE DETOUR CLOSURE. UNDER THESE CIRCUMSTANCES THE CONTRACTOR WILL COMPLETE THE WORK UTILIZING THE APPLICABLE IDOT TRAFFIC CONTROL STANDARD. THE STANDARD APPLICATION WILL BE APPROVED BY THE ENGINEER. A LIST OF POTENTIAL STANDARD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

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 WILLS BURKE KELSEY ASSOCIATES LTD. 115 West Main Street, Suite 201 St. Charles, Illinois 60174	USER NAME = mbaldwin	DESIGNED - MNB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC DETOUR PLAN			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1:10	DRAWN - NDP	REVISED -		0033	10-00378-00-BR	MCHENRY	91	23			
PLOT DATE = 2/2/2015	CHECKED - AEU	REVISED -	CONTRACT NO.61B25									
DATE - 02/02/2015	REVISOR -	REVISED -	SCALE:		SHEET NO. 1	OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			

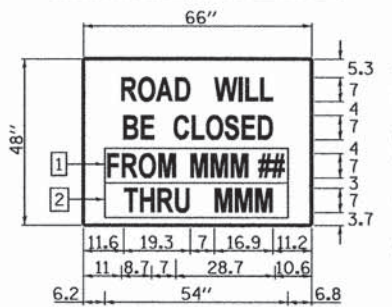


TYPICAL DETOUR SIGN ASSEMBLIES



NOTES:
 THE SIGN CONFIGURATION SHOWN IN THE DETOUR PLAN GENERALLY FOLLOWS THE IDOT DISTRICT ONE STANDARD TC-21.
 THE OPTIONAL SIGN CONFIGURATION DETAILS (M4-9 SERIES) MAY BE USED IN LIEU OF THE M4-8, M5 OR M5 SERIES SIGNS.

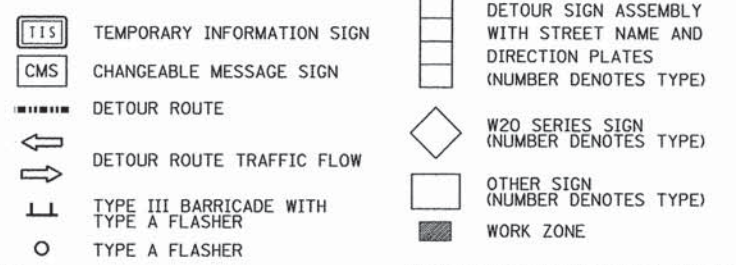
TEMP. INFORMATION SIGN



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:
- SIGN SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING, ONE SIGN ASSEMBLY EQUALS 27.3 SQ FT.
 - OVERLAY PANELS SHALL BE 'HIGHWAY C' FONT.
 - OVERLAY PANEL 1 TO CONTAIN STARTING DATE OF FULL CLOSURE AND DETOUR IMPLEMENTATION.
 - OVERLAY PANEL 2 TO CONTAIN ENDING MONTH OF FULL CLOSURE AND DETOUR. OMIT THE DATE ON PANEL; MONTH ONLY.
 - 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.

LEGEND



SCHEDULE OF DETOUR SIGNS

SIGN NO.	SIGN	MUTCD CODE
1	DETOUR AHEAD	W20-2-4848
2	DETOUR 500 FT	W20-2-4848
3	ROAD CLOSED AHEAD	W20-3-4848
4	ROAD CLOSED 500 FT	W20-3-4848
5	NORTH	M3-1(O)-2412
6	SOUTH	M3-3(O)-2412
7	END DETOUR	M4-8A(O)-2418
8	DETOUR	M4-8(O)-2412
9	DETOUR	M4-10L-4818
10	DETOUR	M4-10R-4818
11	DETOUR	M6-IL-2115
12	DETOUR	M6-IR-2115
13	DETOUR	M5-IL-2115
14	DETOUR	M5-IR-2115
15	DETOUR	M6-3(O)-2115
16	Franklinville M D3-1(O)-3015	
17	ROAD CLOSED	R11-2-4830
18	BRIDGE OUT X MILES AHEAD LOCAL TRAFFIC ONLY	R11-3B-6030
19	BRIDGE OUT	R11-2-4830
20	ROAD CLOSED TO THRU TRAFFIC	R11-4-6030
21	Franklinville Rd CLOSED AT Garden Vally Rd	SPECIAL-(O)-6030
22	Franklinville Rd CLOSED NORTH OF Kunde Rd	SPECIAL-(O)-6030

FILE NAME: M:\Projects\2012\120184 Franklinville\PH\GADD\Civil\Drawings\DETOUR.dwg
 USER: mbaldwin
 DATE: 02/02/2015
 PLOT DATE: 2/2/2015

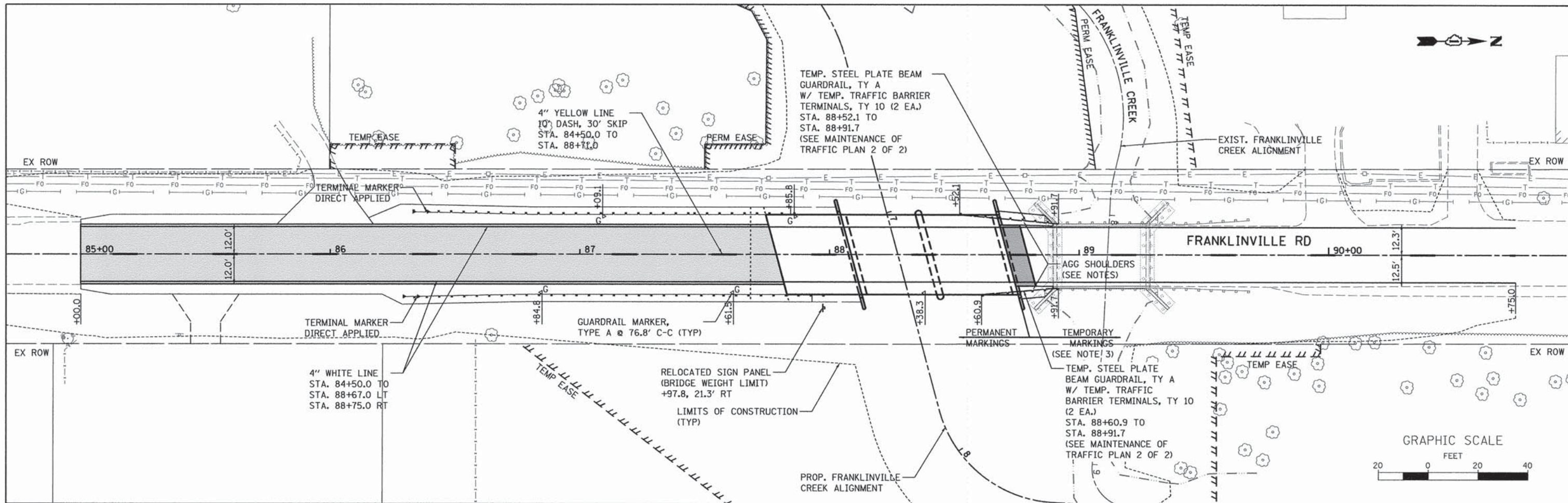
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 110 West Main Street, Suite 201
 St. Charles, Illinois 60174

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	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

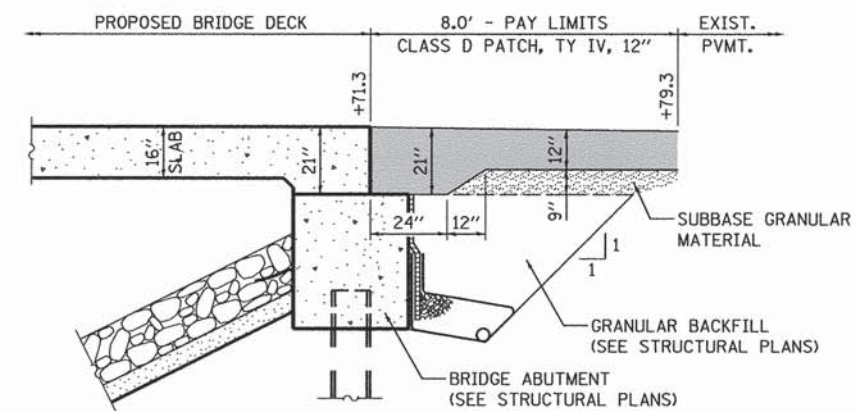
MAINTENANCE OF TRAFFIC DETOUR PLAN	
SCALE:	SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 24
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				



NOTES

1. THE PROJECT WILL SPAN TWO (2) CONSTRUCTION SEASONS. THE ROADWAY WILL NEED TO BE OPENED FOR THE WINTER BETWEEN THE TWO CONSTRUCTION SEASONS. THE DETOUR WILL NEED TO BE COMPLETELY REMOVED, WHICH INCLUDES SIGNS, POST AND BARRICADES. BAGGING SIGNS WILL NOT BE ALLOWED.
2. ALL MAINTENANCE OF TRAFFIC MEASURES REQUIRED FOR THE WINTER SHUT DOWN SHALL BE IN PLACE PRIOR TO THE REMOVAL OF THE DETOUR. ONCE THE DETOUR HAS BEEN REMOVED THE ROAD SHALL BE OPENED TO TRAFFIC.
3. PERMANENT PAVEMENT MARKINGS SHALL BE PLACED FOR THE STATION RANGES SHOWN IN THE PLANS, PRIOR TO OPENING THE ROADWAY TO TRAFFIC. IF TEMPORARY PAVEMENT MARKING IS DEEMED NECESSARY BY THE ENGINEER, AT ANY LOCATION, THE MATERIAL USED SHALL HAVE AN EXPECTED DURABILITY THAT EXCEEDS THE DURATION OF THE WINTER SHUT DOWN PERIOD. A NOMINAL QUANTITY OF 2000 FT OF TEMPORARY PAVEMENT MARKING - LINE 4" HAS BEEN INCLUDED FOR USE AT THE DISCRETION OF THE ENGINEER.
4. PERMANENT GUARDRAIL MARKERS SHALL BE APPLIED TO THE GUARDRAIL AND TERMINALS.
5. TEMPORARY AGGREGATE SHOULDERS SHALL BE PLACED BETWEEN THE LIMITS OF THE PROPOSED WING WALL AND THE BACK OF THE EXISTING WING WALL, A WIDTH OF 3 FEET AND PARALLEL TO THE FACE OF THE TEMPORARY GUARDRAIL AND SHALL BE PAID FOR AS "AGGREGATE SHOULDER, TYPE B 6".
6. THE DETOUR SHALL BE RE-ESTABLISHED PER THE ORIGINAL PLAN PRIOR TO ROAD CLOSURE FOR NEXT SEASON CONSTRUCTION ACTIVITIES.
7. THE DETOUR WILL BE PAID AS A LUMP SUM, THE CONTRACTOR WILL BE PAID HALF FOR EACH CONSTRUCTION SEASON. THE DETOUR WILL BE PAID FOR AS TEMPORARY TRAFFIC CONTROL AND PROTECTION, (SPECIAL).



TEMPORARY PAVEMENT TRANSITION DETAIL

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USER NAME = mboldwin	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:20	DRAWN - NDP	REVISED -
PLOT DATE = 2/5/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MAINTENANCE OF TRAFFIC PLAN
WINTER SHUT DOWN**

SCALE: 1"=20' SHEET NO. 1 OF 2 SHEETS STA. 85+00.00 TO STA. 90+75.00

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 25
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MCHENRY COUNTY STORMWATER ORDINANCE. ALL CONSTRUCTION ACTIVITIES WILL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORMWATER PERMIT ILR40. THE CONTRACTOR SHALL ALSO UTILIZE THE STANDARDS AND SPECIFICATIONS IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
- EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE SEQUENCE OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR APPROVAL BY THE ENGINEER.
- ALL DISTURBED AREAS SHALL BE SEEDED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN 14 DAYS AFTER FINAL GRADE IS REACHED. STRIPPED AREAS THAT WILL REMAIN UNDISTURBED FOR MORE THAN 15 DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY UNTIL PERMANENT COVER IS ESTABLISHED.
- IF A TOPSOIL STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 3 DAYS, EROSION CONTROL MEASURES WILL BE PROVIDED. SOIL STOCKPILES SHALL NOT BE LOCATED WITHIN ANY SPECIAL MANAGEMENT AREAS. SPECIAL MANAGEMENT AREAS INCLUDE ALL WETLANDS, WETLAND BUFFERS, AND FLOOD PLAIN. ANY PROJECT STOCKPILE LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.
- THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT WETLANDS TO REMAIN FROM DAMAGE BY SEDIMENT, CONSTRUCTION EQUIPMENT OR BY HIS WORK CREWS. THE CONTRACTOR SHALL ASSURE THAT DEBRIS OR ANY CONSTRUCTION MATERIAL IS NOT DISPOSED OF IN WETLANDS.
- WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER.
- GRAVEL ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES IF NECESSARY, SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY AND AS NEEDED. ALL WASH DOWN FACILITY LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
- CLEANING OF VEHICLES AND EQUIPMENT, INCLUDING CONCRETE MIXERS, SHALL BE PERFORMED IN A MANNER TO REDUCE THE AMOUNT OF POLLUTANTS TRIBUTARY TO STORM SEWERS AND OPEN WATERS TO THE MAXIMUM EXTENT PRACTICAL.
- ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
- SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE HALF OF THE FILTER DEVICE.
- THE ENGINEER SHALL INSPECT EROSION CONTROL MEASURES WEEKLY AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 1/2 INCH PRECIPITATION. DAMAGED AND INEFFECTIVE EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WITHIN 72 HOURS. EROSION CONTROL SYSTEMS REPLACED DUE TO SEDIMENT LOADING WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.
- ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE PAID FOR IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS, EXCEPT WHERE OTHERWISE NOTED IN THE CONTRACT SPECIAL PROVISIONS.
- THE COST OF REPAIRING OR REMOVING SEDIMENT FROM EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.
- ALL EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.
- TREES TO BE PROTECTED DURING CONSTRUCTION SHOULD BE IDENTIFIED BY THE ENGINEER AND BE IN ACCORDANCE TO THE DETAILS PROVIDED IN THE PLANS, AND SHALL BE PAID FOR AS TEMPORARY FENCE.
- WHERE STREAM DISTURBANCE IS NECESSARY, THE STREAM INCLUDING THE BED AND BANKS, SHALL BE STABILIZED WITHIN FORTY-EIGHT (48) HOURS AFTER DISTURBANCE IS COMPLETED OR INTERRUPTED.
- WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS. LOW FLOW CONDITIONS ARE FLOW AT OR BELOW THE NORMAL WATER ELEVATION.
- WATER SHALL BE ISOLATED FROM THE IN-STREAM WORK AREA USING A DIVERSION STRUCTURE CONSTRUCTED OF NON-ERODIBLE MATERIALS (STEEL SHEETS, AQUA BARRIERS, RIP RAP AND GEOTEXTILE LINER, ETC.). EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.
- IF BYPASS PUMPING IS NECESSARY, THE INTAKE HOSE SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM ENTERING THE HOSE. THE BYPASS DISCHARGE SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION. FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT-LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES.
- DURING DEWATERING OF THE ISOLATED WORK AREA, ALL SEDIMENT-LADEN WATER MUST BE FILTERED TO REMOVE SEDIMENT. SEDIMENT REMOVAL SHALL BE COMPLETED USING DEWATERING BAGS OR OTHER APPROPRIATE METHODS APPROVED BY THE ENGINEER. WATER SHALL HAVE SEDIMENT REMOVED PRIOR TO BEING RE-INTRODUCED TO THE DOWNSTREAM WATERWAY. A STABILIZED CONVEYANCE FROM THE DEWATERING DEVICE TO THE WATERWAY MUST BE IDENTIFIED IN THE PLAN. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY.
- THE AREA FROM THE TOE TO THE TOP OF THE SIDE SLOPE, ADJACENT TO THE AREA OF GRADIGN AND THE RUNNING CHANNEL, SHALL BE TEMPORARILY STABILIZED DURING CONSTRUCTION TO REDUCE THE POTENTIAL FOR EROSION. USING TEMPORARY EROSION CONTROL BLANKET. ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PROPOSED CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.

PHOSPHORUS FERTILIZER NUTRIENT

PHOSPHORUS FERTILIZER NUTRIENT SHALL NOT BE USED ON THIS PROJECT BECAUSE OF THE PROXIMITY TO FRANKLINVILLE CREEK. PHOSPHORUS NUTRIENT LEADS TO OVERABUNDANCE OF AQUATIC PLANTS AND ALGAE, CAUSING REDUCED OXYGEN LEVELS, DARKER WATERS, AND HARMING LOCAL FISH POPULATIONS.

STABILIZATION TYPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A1		A2 A3		A1			A2 A3		
DORMANT SEEDING	B									B		
TEMPORARY SEEDING			C									
EROSION CONTROL	D											
WOODY PLANTINGS			E1							E2		
PERENNIAL PLANTS					F			F				

- A1. CLASS 2A
- A2. CLASS 4A
- A3. EMERGENT/SHORELINE

- B. INCREASE SEEDING RATES BY 25% WHEN DORMANT SEEDING (NOT ANTICIPATED)
- C. TEMPORARY SEEDING (PERENNIAL RYE GRASS, SPRING OATS)

D. EROSION CONTROL BLANKET (PERMANENT SEED AREAS ONLY)

- E1. TREES: SPRING PLANTING
- E2. TREES: FALL PLANTING

F. PLUGS: CHANNEL PLANTING/EMERGENT FLOODPLAIN PLANTING

• IRRIGATION MAY BE NEEDED DURING JUNE AND JULY

NOTE: SEEDING TO BE COMPLETED PER REQUIREMENTS OF SECTION 250 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGES AND THE SPECIAL PROVISIONS.

MCHENRY COUNTY STORMWATER NOTES

- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PERFORMED.
- PROPERTIES AND CHANNELS ADJOINING THE DEVELOPMENT SITE SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.
- SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE.
- ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURES).
- ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.
- A STABILIZED MAT OR AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURES) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE OF A MAJOR DEVELOPMENT TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET ALLEY, OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE SCRAPED OR STREET CLEANED AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD-PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF MCHENRY COUNTY.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL, WATERS OF THE U.S. OR ISOLATED WATERS OF MCHENRY COUNTY. THE CONTRACTOR SHALL MAINTAIN THE DEVELOPMENT SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.
- ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.
- DRAIN TILE SYSTEMS DISTURBED DURING DEVELOPMENT MUST BE RECONNECTED BY THOSE RESPONSIBLE FOR THEIR DISTURBANCE UNLESS THE APPROVED ENGINEERING PLANS INDICATE HOW THE DRAIN TILE SYSTEM IS TO BE CONNECTED TO THE PROPOSED STORMWATER MANAGEMENT SYSTEM. ALL ABANDONED DRAIN TILES SHALL BE REMOVED IN THEIR ENTIRETY.

DEWATERING AND SEDIMENT TRAP - BASIS OF PAYMENT

FILTER/SEDIMENT BAGS SHALL BE PAID FOR AS TEMPORARY SEDIMENT TRAP, AND MEASURED AS EACH. WHEN DEWATERING IS REQUIRED FOR CONSTRUCTION OPERATIONS IT WILL NOT BE MEASURED SEPARATELY FOR PAYMENT BUT SHALL BE INCLUDED IN THE COST OF THE RELATED WORK ITEM REQUIRING DEWATERING. THE TERM CONSTRUCTION OPERATIONS INCLUDES ALL DEWATERING FOR INSTALLING AND REMOVING THE BRIDGE, GRADING, AND PUMPING THE WATER OUT OF THE EXISTING CHANNEL AFTER THE PROPOSED CHANNEL IS ONLINE. DEWATERING WILL INCLUDE MEANS, METHODS AND ALL MATERIALS TO DEWATER ANY LOCATIONS IDENTIFIED BY THE ENGINEER OR REQUIRED IN ORDER TO COMPLETE CONSTRUCTION IN A TIMELY MANNER.

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 116 West Main Street, Suite 201
 St. Charles, Illinois 60174

USER NAME = nparris	DESIGNED - MNB	REVISED -
	DRAWN - NDP	REVISED -
PLOT SCALE = 1:100	CHECKED - AEU	REVISED -
PLOT DATE = 1/30/2015	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION & SEDIMENT
 CONTROL NOTES**

SCALE: SHEET NO. 3 OF 6 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	MCHENRY	91	29
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

CONSTRUCTION SEQUENCE NOTES

STAGE 1: JUNE 2015 THRU SEPTEMBER 2015 (MAJOR WORK ITEMS)

NOTE - ALL PLANTINGS SHALL ADHERE TO THE ALLOWABLE SCHEDULE PROVIDED ON SHEET 29, UNLESS APPROVED BY THE ENGINEER.

CONSTRUCTION:

- ESTABLISH PERMITTER AND TEMPORARY EROSION CONTROL AS SHOWN IN THE PLANS, INCLUDING STABILIZED CONSTRUCTION ENTRANCES.
- SITE CLEARING AND TREE REMOVAL WITHIN THE WORK ZONE.
- COMPLETE EXCAVATION FOR RELOCATED CHANNEL, DOWNSTREAM DEWATERING SUMP PIT.
- LEAVE AN EARTH BERM A MINIMUM OF 10' WIDE AT THE UPSTREAM END OF THE CHANNEL EXCAVATION. INSTALL A TEMPORARY 12" PIPE WITH GATE VALVE FOR IRRIGATION AT THE INVERTS SHOWN IN THE PLANS.
- INSTALL A TEMPORARY 12" CULVERT PIPE AT THE DOWNSTREAM END OF THE CHANNEL WITH A 12" FLAP GATE AND A ROCK CHECK IN WATERWAY.
- CONSTRUCT THE CHANNEL STONE, STONE TOE AND STABILIZE CHANNEL SIDE SLOPES.
- REMOVE AND CONSTRUCT THE ROADWAY TO THE LIMITS SHOWN ON THE PLANS, INCLUDING PAVEMENT, SHOULDERS, DRIVEWAYS, CULVERTS, ETC.
- INSTALL THE GUARDRAIL ONLY AFTER IT IS DETERMINED THE CONTRACTOR WILL NO LONGER NEED TO ACCESS THE PROPOSED CHANNEL GRADING AREA.
- CONSTRUCT THE BRIDGE ABUTMENTS, BRIDGE BEAMS, DECK AND ALL NECESSARY COMPONENTS TO THE LIMITS SHOWN IN THE PLANS.
- SEED AND PLANT ACCORDING TO PLANS
- MAINTAIN EXISTING FIELD TILES ENCOUNTERED DURING CONSTRUCTION, IF ANY.

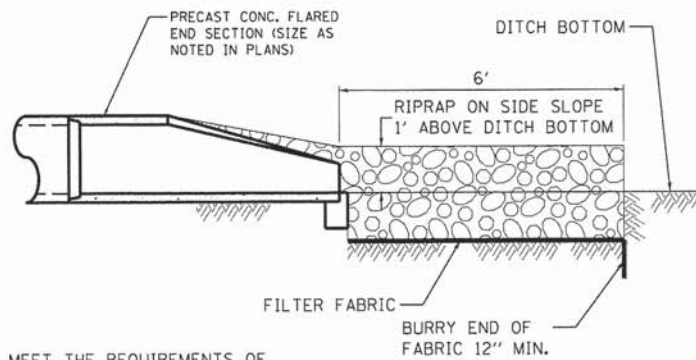
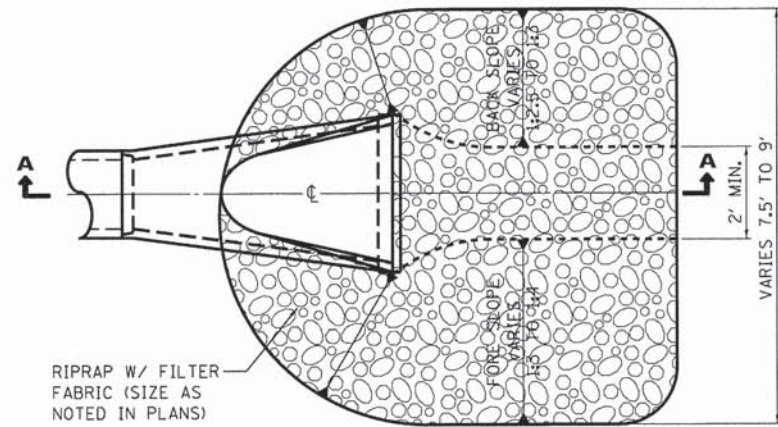
NOTE: BASED ON THE PROJECT GEOTECH REPORT, IT IS ANTICIPATED THAT THE GROUND WATER ELEVATION WILL BE ABOVE THE BOTTOM OF THE PROPOSED CREEK.

MAINTENANCE OF TRAFFIC:

- ESTABLISH AND MAINTAIN DETOUR PRIOR TO WORK.
- ALLOW ACCESS TO PRIVATE DRIVEWAYS.
- REMOVE DETOUR ONCE WINTER SHUTDOWN IS IN EFFECT.

WINTER SHUT DOWN: DECEMBER 2015 THRU APRIL 2016

- FRANKLINVILLE ROAD SHALL BE OPEN TO LOCAL TRAFFIC.
- ALL REQUIRED SIGNAGE AND NECESSARY SAFETY MEASURES SHALL BE FULLY FUNCTIONAL.



PIPE OUTLET NOTES:

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

PIPE OUTLET DETAIL

STAGE 2: JUNE 2016 THRU JULY 2016 (MAJOR WORK ITEMS)

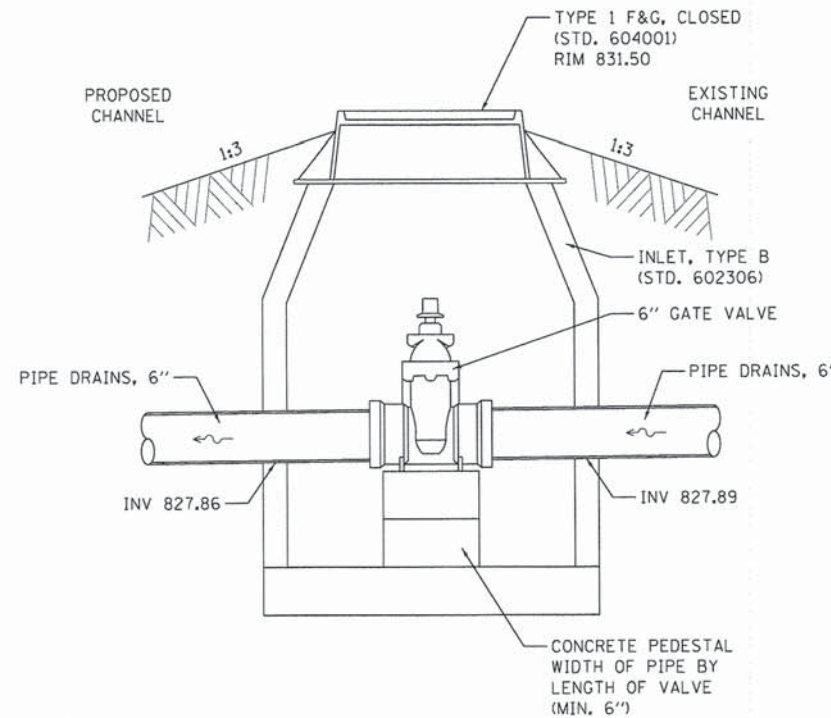
NOTE - ALL PLANTINGS SHALL ADHERE TO THE ALLOWABLE SCHEDULE PROVIDED ON SHEET 29, UNLESS APPROVED BY THE ENGINEER.

CONSTRUCTION:

- ESTABLISH PERMITTER AND TEMPORARY EROSION CONTROL AS SHOWN IN THE PLANS, INCLUDING STABILIZED CONSTRUCTION ENTRANCES.
- AFTER APPROVAL FROM THE USACE/MCHENRY-LAKE SWCD AND DURING A PERIOD OF LOW FLOW IN THE CREEK, THE CONNECTIONS BETWEEN THE EXISTING AND RELOCATED CHANNEL MAY BE CONSTRUCTED. THE MAXIMUM DURATION OF THIS WORK WILL BE (5) FIVE DAYS FOR THE EXCAVATION, CONSTRUCTION OF THE STONE TOE AND SLOPE STABILIZATION. LOW FLOW IS DEFINED AS ANY WSE BELOW THE NORMAL.
- THE EXISTING CHANNEL SHALL BE DIVERTED BY METHODS APPROVED BY THE ENGINEER WHEN CONNECTING THE EXISTING AND PROPOSED CHANNELS SO THAT THERE IS NO WORK OCCURRING WITHIN FLOWING WATER. ANY METHODS USED TO DIVERT THE CHANNEL SHALL BE SUBMITTED TO THE ENGINEER 14 DAYS PRIOR TO THE SCHEDULED WORK.
- THE DOWNSTREAM CONNECTION SHALL BE CONSTRUCTED AND STABILIZED PRIOR TO CONSTRUCTION OF THE UPSTREAM CHANNEL CONNECTION
- ONCE FLOW HAS BEEN DIVERTED TO THE PROPOSED CHANNEL AN EARTH BERM SHALL BE GRADED TO BLOCK FLOW FROM ENTERING THE EXISTING CHANNEL.
- BACKFILL AND STABILIZE ORIGINAL CHANNEL
- SEED AND PLANT ACCORDING TO PLANS
- REMOVAL OF EXISTING STRUCTURE AND APPURTENANCES.
- REMOVE AND CONSTRUCT THE ROADWAY TO THE LIMITS SHOWN ON THE PLANS, INCLUDING PAVEMENT, SHOULDERS, DRIVEWAYS, CULVERTS, ETC.
- INSTALL THE GUARDRAIL ONLY AFTER IT IS DETERMINED THE CONTRACTOR WILL NO LONGER NEED TO ACCESS THE PROPOSED CHANNEL GRADING AREA.
- REMOVE ANY TEMPORARY EROSION CONTROL ITEMS AFTER SUBSTANTIAL COMPLETION AND RESTORE THE APPLICABLE AREAS, IF NECESSARY.
- MAINTAIN EXISTING FIELD TILES ENCOUNTERED DURING CONSTRUCTION, IF ANY.
- FINISH ANY REMAINING PUNCHLIST ITEMS.
- NOTE: THE CONTRACTOR SHALL NOT STOCKPILE ANY MATERIAL ON-SITE, DUE TO EXISTING WETLAND AND FLOODPLAIN LIMITS. ANY PROJECT STOCKPILE LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BEING ESTABLISHED.

MAINTENANCE OF TRAFFIC:

- ESTABLISH AND MAINTAIN DETOUR PRIOR TO WORK.
- ALLOW ACCESS TO PRIVATE DRIVEWAYS.
- REMOVE DETOUR ONCE BRIDGE IS COMPLETE AND SAFETY MEASURES HAVE BEEN INSTALLED.

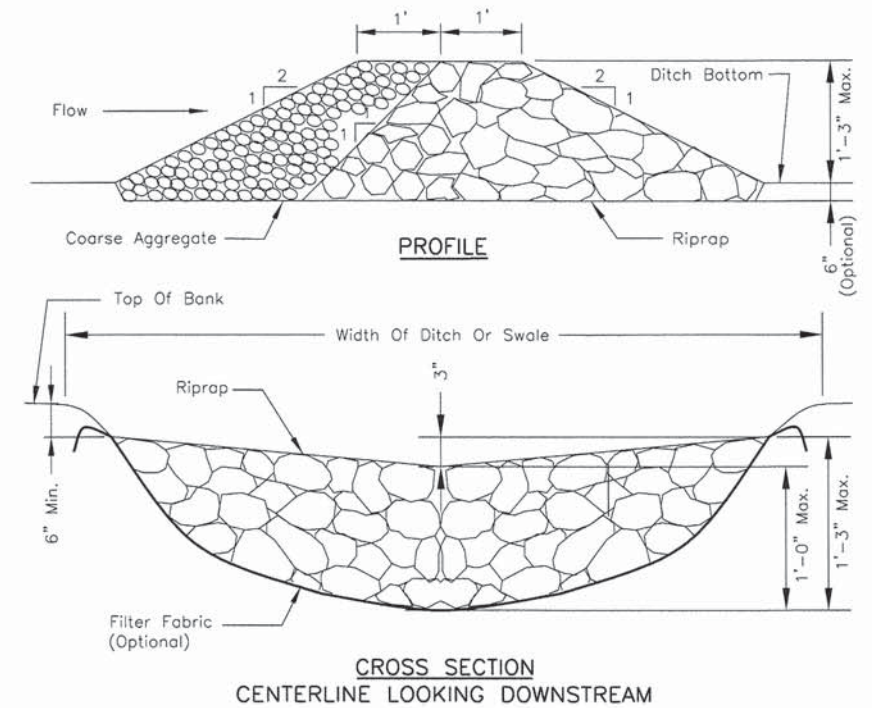


NOTES:

1. SEE IDOT STANDARD 602306 FOR INLET, TYPE B DETAIL & SPECIFICATIONS.
2. SEE IDOT STANDARD 604001 FOR FRAME & LIDS, TYPE 1 DETAIL & SPECIFICATIONS.

IRRIGATION STRUCTURE

STA. 88+93.0, 99.4' RT



NOTES:

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

ROCK CHECK DAM

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116 West Main Street, Suite 201
St. Charles, Illinois 60174

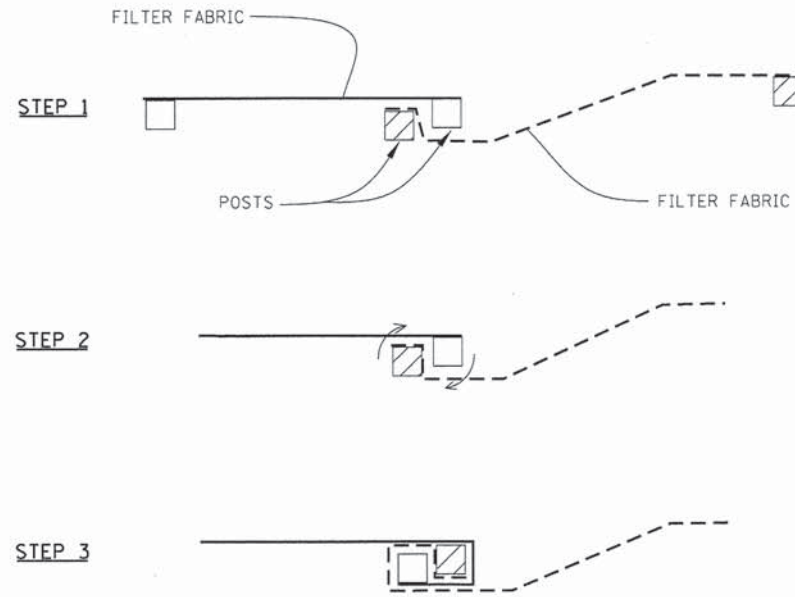
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	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION & SEDIMENT
DETAILS & STAGING NOTES**

SCALE: SHEET NO. 4 OF 5 SHEETS STA. TO STA.

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 30
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				



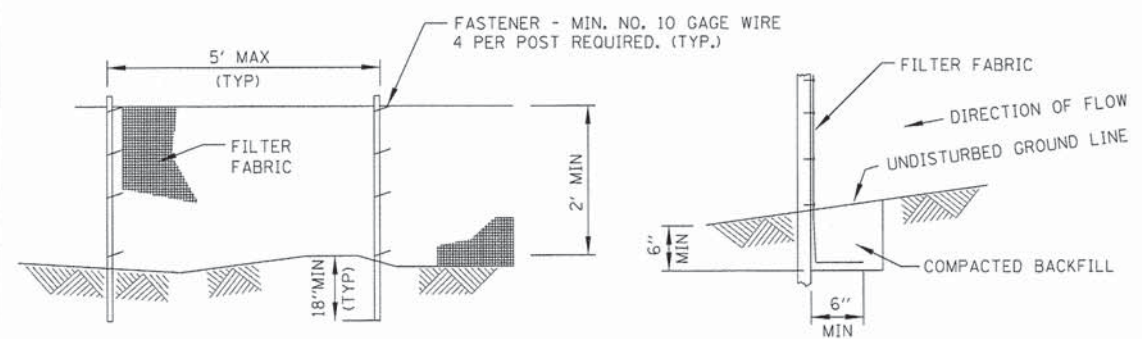
ATTACHING TWO SILT FENCES

NOTES:

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

PERIMETER EROSION BARRIER (SILT FENCE) – SPLICING TWO FENCES

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



ELEVATION

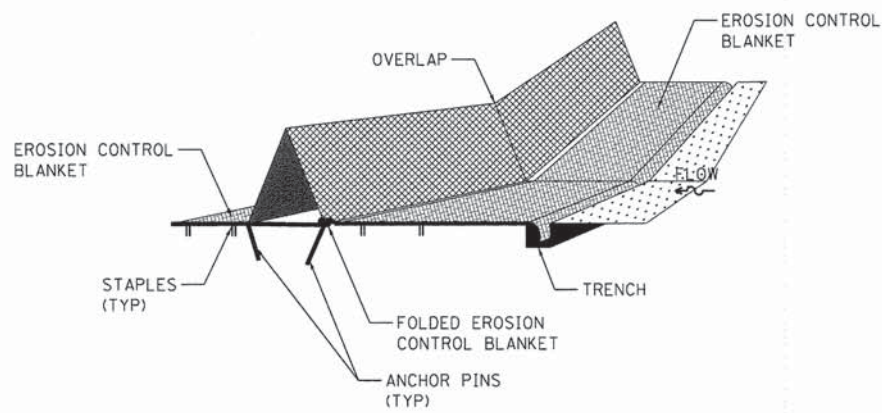
FABRIC ANCHOR DETAIL

PERIMETER EROSION BARRIER (SILT FENCE)

STD. IUM-620A
(SILT FENCE PLAN)

NOTES:

1. TEMPORARY SEDIMENT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
2. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 40 FOR WOVEN.
3. FENCE POSTS SHALL BE EITHER STANDARD STEEL POST OR WOOD POST WITH A MINIMUM CROSS-SECTIONAL AREA OF 3.0 SQ. IN.



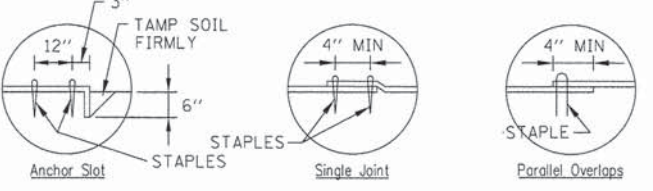
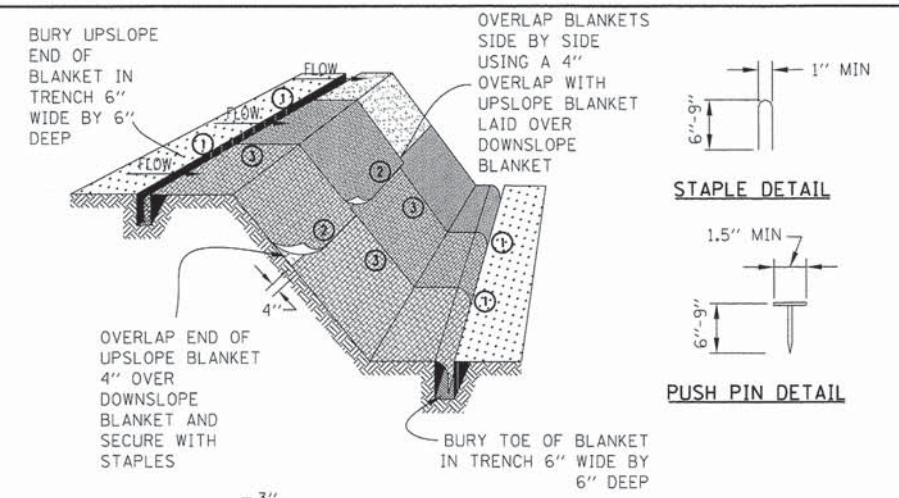
INSTALLATION NOTES:

1. PREPARE THE CHANNEL BY FORMING THE SHAPE AND GRADE OF THE CHANNEL AND COMPACTING THE SUBGRADE.
2. APPLY FERTILIZER AND SEED AS REQUIRED.
3. INSTALL EROSION CONTROL BLANKETS
 - A. FOR FULL CHANNEL LINING, FOLLOW MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES. LEAVE A 4" FLAP OF EROSION CONTROL BLANKET TO FOLD OVER THE UPSTREAM LEG OF THE DITCH CHECK.
 - B. ALLOW 4" SLACK ACROSS EROSION CONTROL BLANKET WIDTH FOR FOLDING OVER THE UPSTREAM EDGE OF THE DITCH CHECK BERM. PROVIDE A 6"x6" TRENCH AT THE UPSTREAM EDGE OF THE EROSION CONTROL BLANKET. STAPLE THE EROSION CONTROL BLANKET ONTO THE BOTTOM OF THE TRENCH WITH A MINIMUM 6" STAPLE AT 20" SPACING ON CENTER. RE-COMPACT THE SOIL INTO THE TRENCH.
4. PLACE TEMPORARY DITCH CHECK PERPENDICULAR TO THE DIRECTION OF FLOW. OVERLAP PANELS BY MINIMUM 2". CUT A SLOT IN THE CREST OF THE OVERLAPPING BERM TO ALLOW CONTACT BETWEEN THE FOOT OF THE BERM AND THE SOIL.
5. SECURE BERMS WITH 10" ANCHOR PINS AND 1.5" WASHERS THROUGH THE FOLDED EROSION CONTROL BLANKET AND THE FOOT OF THE UNIT. THE ANCHOR PIN SPACING ACROSS THE WIDTH OF THE PANEL SHOULD BE 20" ON CENTER FOR THE UPSTREAM LEG AND 40" ON CENTER FOR THE DOWNSTREAM LEG.

MAINTENANCE NOTES:

1. THE CONTRACTOR SHALL INSPECT ALL TEMPORARY DITCH CHECKS AFTER EACH RAIN EVENT OF 1/2 INCH OR GREATER. ANY DEFICIENCIES OR DAMAGE SHALL BE REPAIRED BY THE CONTRACTOR.
2. ACCUMULATED SEDIMENT OR DEBRIS SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER. IF THE TEMPORARY DITCH CHECK IS DAMAGED OR INADVERTENTLY MOVED DURING THE SEDIMENT REMOVAL PROCESS, THE CONTRACTOR SHALL RE-ESTABLISH CONTINUITY.

TEMPORARY DITCH CHECK TRIANGULAR GRID TYPE



DETAIL 1

DETAIL 2

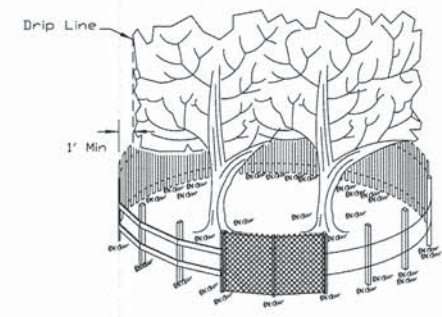
DETAIL 3

NOTES:

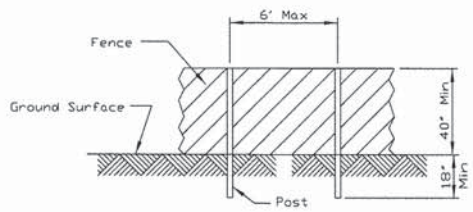
1. STAPLES SHALL BE PLACED IN A DIAMOND PATTERN AT 2 PER S.Y. FOR STITCHED BLANKETS. NON-STICHED SHALL USE 4 STAPLES PER S.Y. OF MATERIAL. THIS EQUATES TO 200 STAPLES WITH STITCHED BLANKET AND 400 STAPLES WITH NON-STICHED BLANKET PER 100 S.Y. OF MATERIAL.
2. STAPLE OR PUSH PIN LENGTHS SHALL BE SELECTED BASED ON SOIL TYPE AND CONDITIONS. (MINIMUM STAPLE LENGTH IS 6")
3. EROSION CONTROL MATERIAL SHALL BE PLACED IN CONTACT WITH THE SOIL OVER A PREPARED SEEDBED.
4. ALL ANCHOR SLOTS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

EROSION CONTROL BLANKET INSTALLATION DETAILS

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



SIDE VIEW



POST AND FENCE DETAIL

NOTES:

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

TREE PROTECTION FENCING

STD. IL-690
(TREE PROTECTION - FENCING)

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St. Charles, Illinois 60174

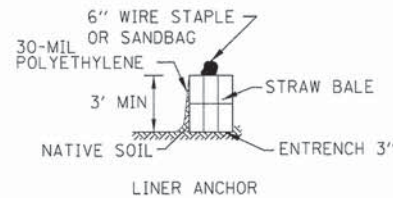
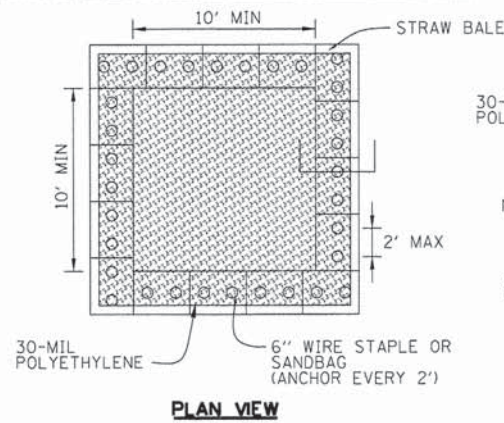
USER NAME = nperris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:10	DRAWN - NDP	REVISED -
PLOT DATE = 1/30/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

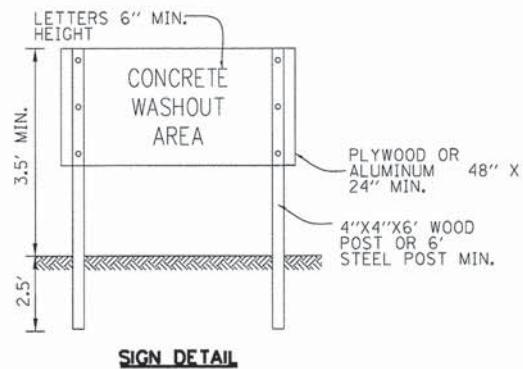
**EROSION & SEDIMENT
CONTROL DETAILS**

SCALE: SHEET NO. 5 OF 6 SHEETS STA. TO STA.

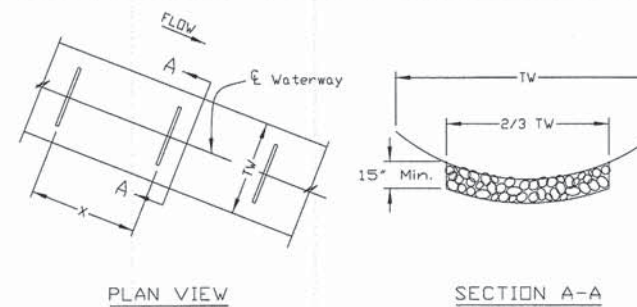
F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 31
CONTRACT NO. 61B25				ILLINOIS FED. AID PROJECT



STRAW BALE ANCHOR SECTIONS



SIGN DETAIL



ROCK CHECK SPACING

WATERWAY GRADE %	MAXIMUM SPACING FT.
0 - 1.5	100
1.5 - 3.0	75
> 3.0	50

ROCK QUANTITIES IN TONS - PER ROCK CHECK

DEPTH <In.>	ROCK CHECK WIDTH - 2/3 TW - IN FEET										
	10	12	14	16	18	20	22	24	26	28	30
15	1.5	1.8	2.1	2.4	2.7	3.0	3.3	3.6	3.9	4.1	4.4
18	1.8	2.1	2.5	2.8	3.2	3.6	3.9	4.3	4.6	5.0	5.3
24	2.4	2.8	3.3	3.8	4.3	4.7	5.2	5.7	6.2	6.6	7.1

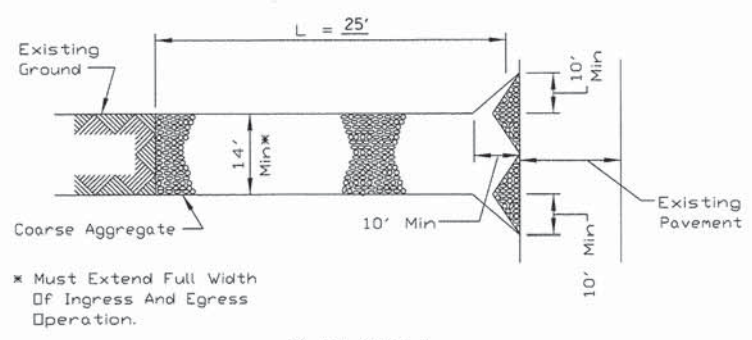
Note: Quantities based on 2 foot wide trench and 1.6 Tons/Cu. Yd.
(Divide quantities by 2 for 12 inch trench widths.)

WASHOUT NOTES:

1. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND/OR SLURRY AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION.
2. FACILITY SHALL BE CLEANED OR RECONSTRUCTED IN A NEW AREA ONCE WASHOUT BECOMES TWO-THIRDS FULL.
3. EACH STRAW BALE IS TO BE STAKED IN PLACE USING (2) 2"x2"x4" WOODEN STAKES.

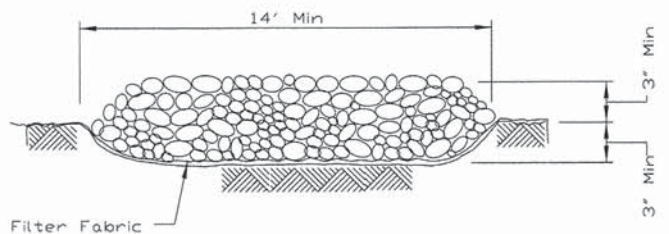
TEMPORARY CONCRETE WASHOUT FACILITY - STRAW BALE

STD. IUM-654SB
(TEMPORARY CONCRETE WASHOUT)

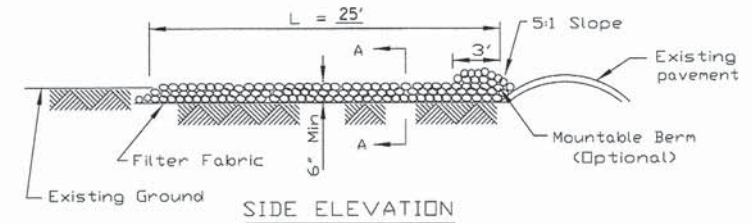


PLAN VIEW

* Must Extend Full Width Of Ingress And Egress Operation.



SECTION A-A



SIDE ELEVATION

NOTES:

1. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF ARTICLE 1080.03 OF THE STANDARD SPECIFICATIONS AND SHALL BE PALCED OVER THE CLEARED SUBGRADE AREA PRIOR TO PLACING THE ROCK.
2. AGGREGATE FILL SHALL MEET ONE OF THE FOLLOWING IDOT COARSE AGGREGATE GRADATIONS, CA-1, CA-2, CA-3 OR CA-4 AND BE PLACED ACCORDING TO SPECIAL PROVISION " STABILIZED CONSTRUCTION ENTRANCE.
3. ANY DRAINAGE FACILITIES REQUIRED BECASUE OF WASHING SHALL BE CONSTRCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS.
4. IF WASH RACKS ARE USED THEY SHALL BE INSTALLED ACCORDING TO MANUFACTURERS SPECIFICATIONS.

STABILIZED CONSTRUCTION ENTRANCE PLAN

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

NOTES:

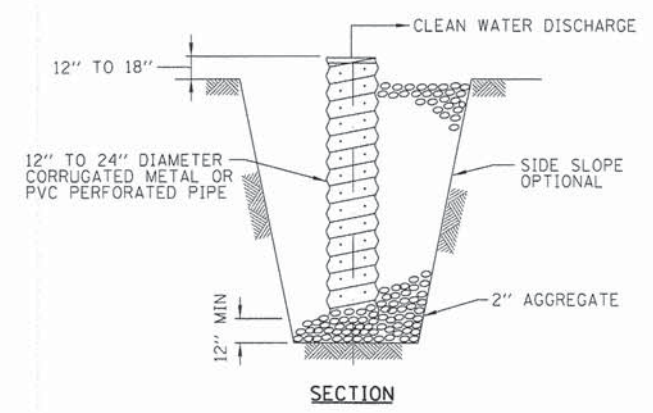
1. Excavate trench 12 inches wide or one backhoe bucket wide, whichever is greater.
2. Compact rock backfill by rolling with construction equipment.
3. Finished rock surface will be flush with the ground surface when completed.

ROCK GRADATION - IDOT RR3

Size	% Passing By Weight
50 Lb.	100
10 Lb.	30 - 70
1 Lb.	0 - 16

ROCK CHECKS FOR WATERWAYS

STD. IUM-541A,B



SECTION

SUMP PIT NOTES:

1. PIT DIMENSIONS ARE OPTIONAL.
2. THE STANDPIPE WILL BE CONSTRUCTED BY PERFORATING A 12"-24" DIAMETER CORRUGATED METAL OR PVC PIPE.
3. A BASE OF 2" AGGREGATED WILL BE PLACED IN THE PIT TO A MINIMUM DEPTH OF 12". AFTER INSTALLING THE STANDPIPE, THE PIT SURROUNDING THE STANDPIPE WILL THEN BE BACKFILLED WITH 2" AGGREGATE.
4. THE STANDPIPE WILL EXTEND 12" TO 18" ABOVE THE LIP OF THE PIT.
5. IF DISCHARGE WILL BE PUMPED DIRECTLY TO A STORM DRAINAGE SYSTEM, THE STANDPIPE WILL BE WRAPPED WITH FILTER FABRIC BEFORE INSTALLATION.
6. IF DESIRED, 1/4"-1/2" HARDWARE CLOTH MAY BE PLACED AROUND THE STANDPIPE PRIOR TO ATTACHING THE FILTER FABRIC. THIS WILL INCREASE THE RATE OF WATER SEEPAGE INTO THE PIPE.

SUMP PIT PLAN

STD. IL-650
(SUMP PIT PLAN)

FILE NAME = MAPProjects\2012\120184 F:\enr\inv\ill\PHIT\CAD00\Civil\Drawn\Sht\ER05_06.dgn

WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174

USER NAME = nparris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:10	DRAWN - NDP	REVISED -
PLOT DATE = 1/30/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

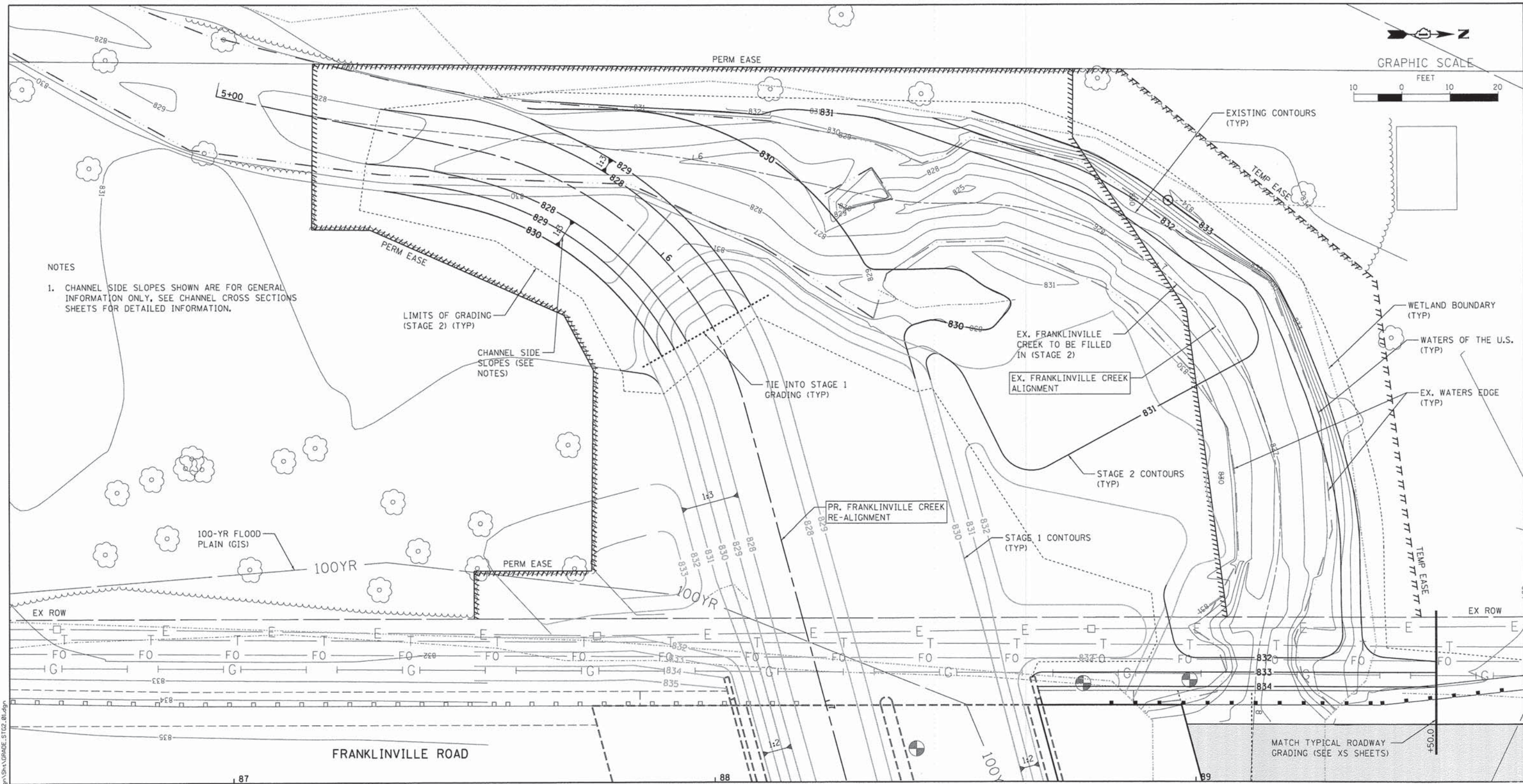
EROSION & SEDIMENT CONTROL DETAILS

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

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 32
CONTRACT NO. 61B25				ILLINOIS FED. AID PROJECT



GRAPHIC SCALE



NOTES

- 1. CHANNEL SIDE SLOPES SHOWN ARE FOR GENERAL INFORMATION ONLY, SEE CHANNEL CROSS SECTIONS SHEETS FOR DETAILED INFORMATION.

MATCHLINE GRADING PLAN SHEET 4 OF 4

FILE NAME = W:\Projects\2012\1218184 - Franklinville\1111\CAD\CADD\Civil\02\Grading\STG2_B1.dgn

WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174

USER NAME = nporris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:10	DRAWN - NDP	REVISED -
PLOT DATE = 1/30/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

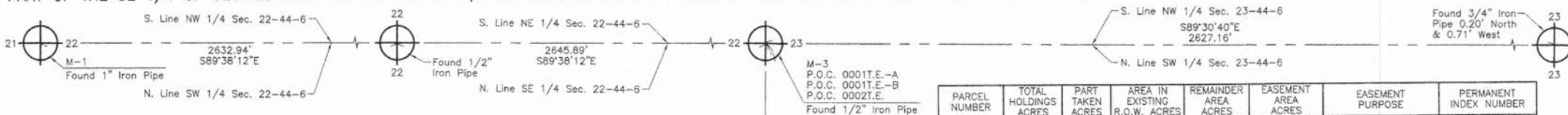
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GRADING PLAN - STAGE 2

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	MCHENRY	91	35
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

PART OF THE SE 1/4 OF SEC. 22 AND PART OF THE SW 1/4 OF SEC. 23, TWP. 44 N., R. 6 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APPARENT PROPERTY LINE
- EXISTING CENTER LINE
- PROPOSED CENTER LINE
- 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
- RECORD DIMENSION
- EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

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

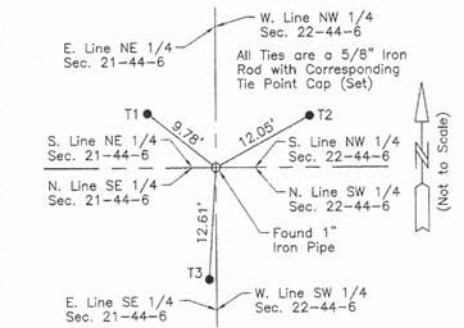
STATE OF ILLINOIS } SS
COUNTY OF LAKE }

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 22, TOWNSHIP 44N., RANGE 6E. AND SECTION 23, TOWNSHIP 44N., RANGE 6E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, 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 ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 15th DAY OF August 2014 A.D.

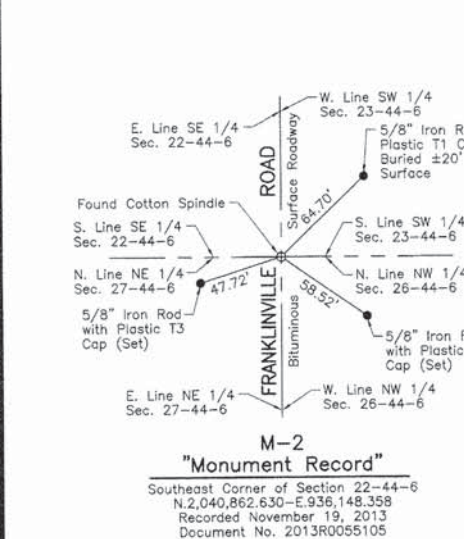
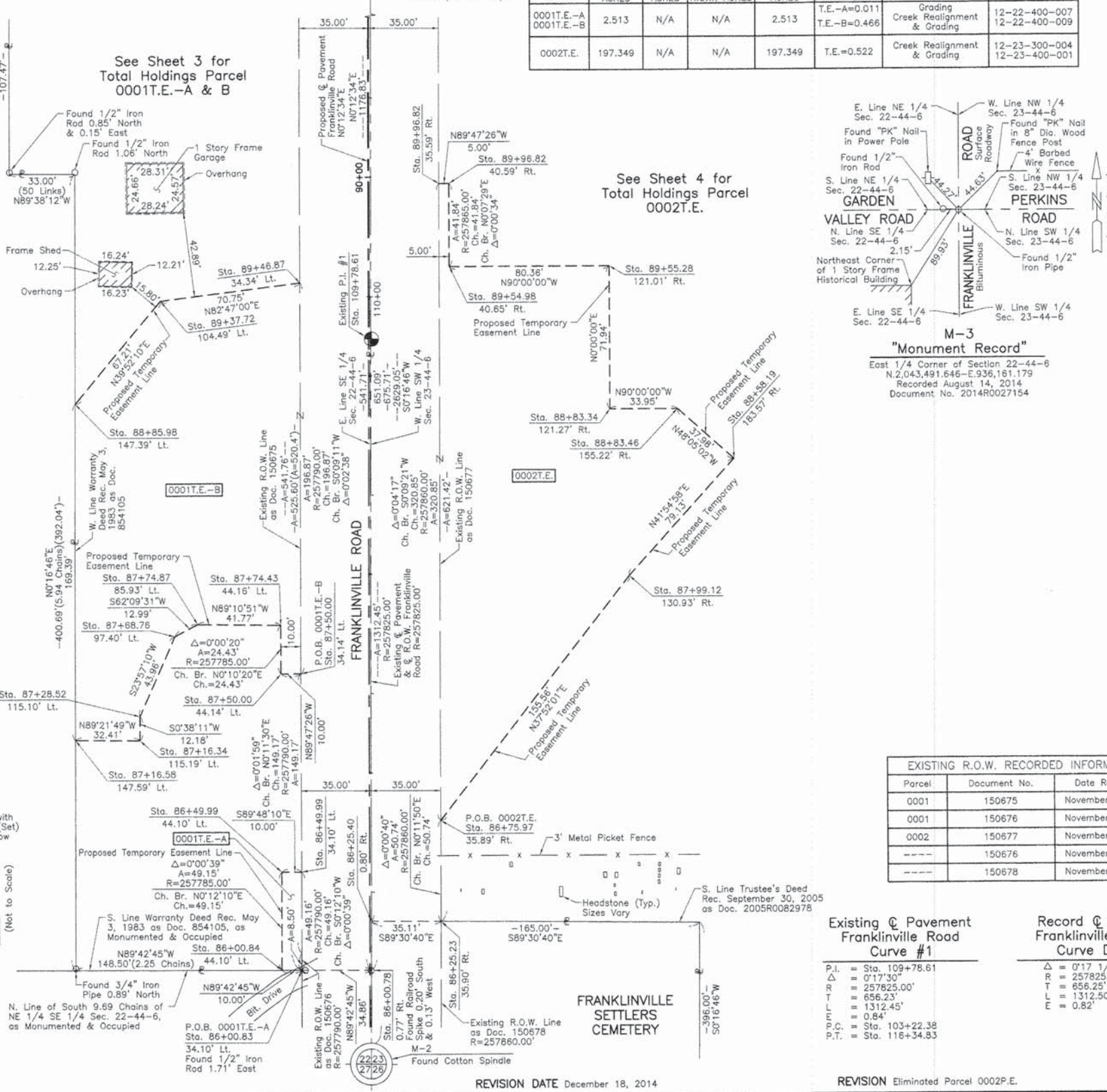
Christian H. Jorgensen PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2014
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
Note: Surface Coordinates are Shown

PARCEL NUMBER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER
0001T.E.-A 0001T.E.-B	2.513	N/A	N/A	2.513	T.E.-A=0.011 T.E.-B=0.466	Grading Creek Realignment & Grading	12-22-400-007 12-22-400-009
0002T.E.	197.349	N/A	N/A	197.349	T.E.=0.522	Creek Realignment & Grading	12-23-300-004 12-23-400-001



M-1 "Monument Record"
West 1/4 Corner of Section 22-44-6
N.2,043,525.125-E.930,882.458
Recorded August 14, 2014
Document No. 2014R0027154

STATION	OFFSET	NORTH	EAST
86+75.97	35.89' Rt.	2,042,890.995	936,193.283
87+16.34	115.19' Lt.	2,042,931.925	936,042.355
87+16.58	147.59' Lt.	2,042,932.285	936,009.949
87+28.52	115.10' Lt.	2,042,944.100	936,042.490
87+50.00	34.14' Lt.	2,042,965.285	936,123.520
87+50.00	44.14' Lt.	2,042,965.321	936,113.520
87+68.76	97.40' Lt.	2,042,984.278	936,060.338
87+74.43	44.16' Lt.	2,042,989.747	936,113.594
87+74.87	85.93' Lt.	2,042,990.344	936,071.824
87+99.12	130.93' Rt.	2,043,013.800	936,288.771
88+58.19	183.57' Rt.	2,043,072.680	936,341.630
88+83.34	121.27' Rt.	2,043,098.054	936,279.420
88+83.46	155.22' Rt.	2,043,098.054	936,313.366
88+85.98	147.39' Lt.	2,043,101.677	936,010.775
89+37.72	104.49' Lt.	2,043,153.264	936,053.862
89+46.87	34.34' Lt.	2,043,162.151	936,124.046
89+54.98	40.65' Rt.	2,043,169.994	936,199.064
89+55.28	121.01' Rt.	2,043,169.994	936,279.420
89+96.82	35.59' Rt.	2,043,211.848	936,194.156
89+96.82	40.59' Rt.	2,043,211.830	936,199.156



M-2 "Monument Record"
Southeast Corner of Section 22-44-6
N.2,040,862.630-E.936,148.358
Recorded November 19, 2013
Document No. 2013R0055105

Parcel	Document No.	Date Recorded
0001	150675	November 1, 1940
0001	150676	November 1, 1940
0002	150677	November 1, 1940
---	150676	November 1, 1940
---	150678	November 1, 1940

EXISTING @ Pavement Franklinville Road Curve #1			Record @ R.O.W. Franklinville Road Curve Data		
P.I.	= Sta. 109+78.61	Δ = 0°17'30"	Δ	= 0°17'12"	
Δ	= 0°17'30"	P	= 257825.00'	R	= 656.25'
R	= 656.23'	L	= 1312.45'	E	= 0.82'
L	= 1312.45'				
P.C.	= 0.84'				
P.T.	= Sta. 103+22.38				
	= Sta. 116+34.83				

REVISION DATE December 18, 2014
REVISION Eliminated Parcel 0002P.E.



STATION	OFFSET	NORTH	EAST
86+00.78	0.77' Rt.	2,042,815.940	936,157.884
86+00.83	34.10' Lt.	2,042,816.115	936,123.022
86+00.84	44.10' Lt.	2,042,816.165	936,113.022
86+25.23	35.90' Rt.	2,042,840.260	936,193.109
86+25.40	0.80' Rt.	2,042,840.559	936,158.004
86+49.99	34.10' Lt.	2,042,865.278	936,123.196
86+49.99	44.10' Lt.	2,042,865.312	936,113.196

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FRANKLINVILLE ROAD
LIMITS: TRIBUTARY OF KISHAWA RIVER COUNTY: McHENRY
SECTION: 10-00378-00-BR JOB NO.: R-55-001-97
STATION 85+00 TO STATION 91+00
SCALE: 1"=30' SHEET 2 OF 5

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

PART OF THE EAST 1/2 OF SEC. 22 AND PART OF THE WEST 1/2 OF SEC. 23, TWP. 44 N., R. 6 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

LEGEND

SECTION LINE
 QUARTER SECTION LINE
 QUARTER, QUARTER SECTION LINE
 PLATTED LOT LINE
 PROPERTY (DEED) LINE

APL
 APPARENT PROPERTY LINE
 EXISTING CENTER LINE
 PROPOSED CENTER LINE
 EXISTING RIGHT OF WAY LINE
 PROPOSED RIGHT OF WAY LINE
 EXISTING EASEMENT
 PROPOSED EASEMENT
 AC
 EXISTING ACCESS CONTROL LINE
 PROPOSED ACCESS CONTROL LINE

120.32'
 129.32' (Comp.)
 (129.32')

EXISTING BUILDING

Scale: 1"=40'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

○ IRON PIPE OR ROD FOUND ⊕ "MAG" NAIL SET
 + CUT CROSS FOUND OR SET ● 5/8" REBAR SET

● T1 - THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH
 T2 IRON ROD FLUSH WITH GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY
 T3 COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

● BT1 - THESE STAKES IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONU-
 BT2 MENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE
 BT3 FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SUR-
 VEYORS REGISTRATION NUMBER.

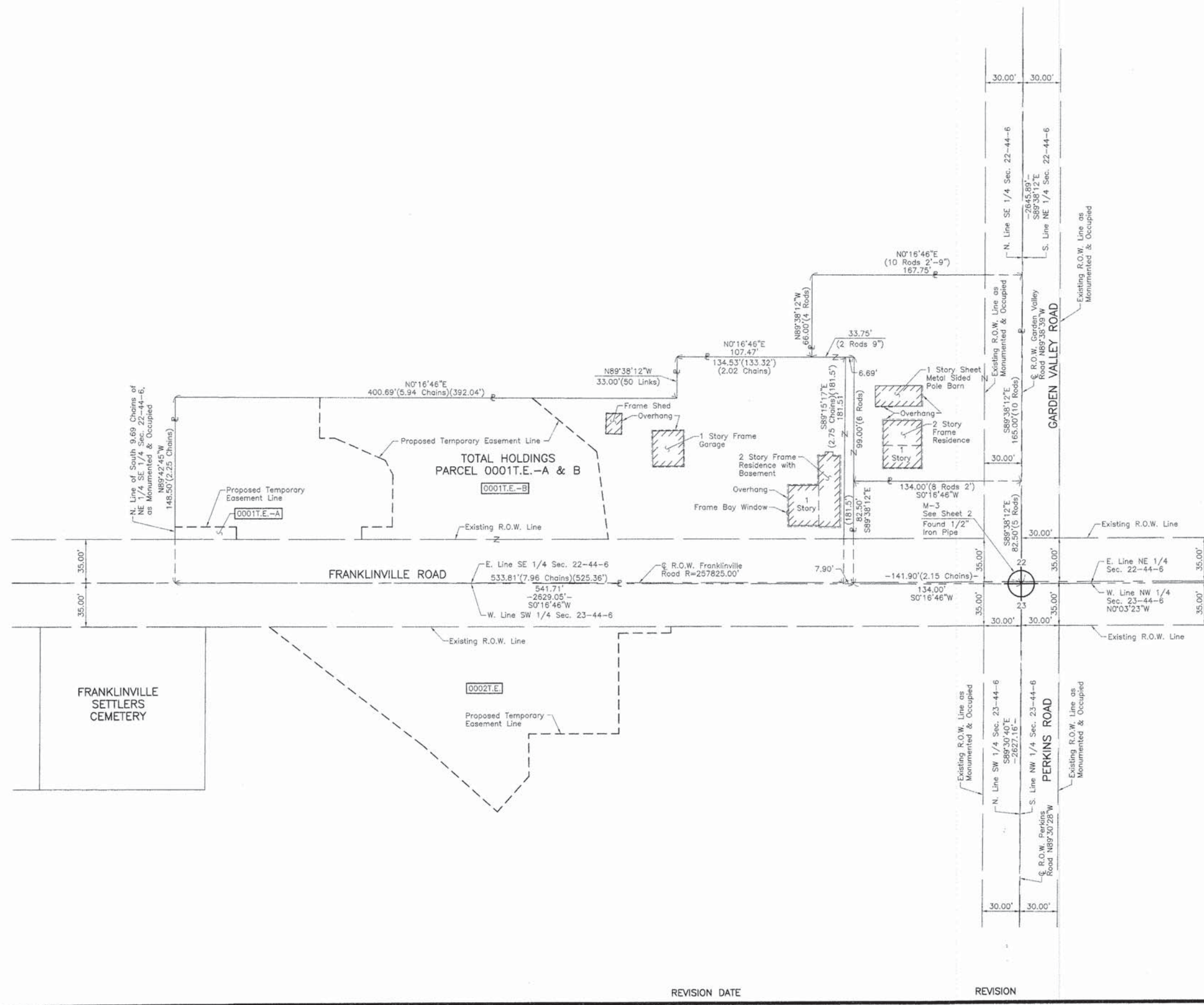
■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY
 MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION
 DATA AND SURVEYORS REGISTRATION NUMBER.

■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8
 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY
 MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING
 SURVEYORS REGISTRATION NUMBER.

⊙ PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
 COUNTY OF LAKE } SS



THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 22, TOWNSHIP 44N., RANGE 6E. AND SECTION 23, TOWNSHIP 44N., RANGE 6E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, 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 ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 10th DAY OF July 2014 A.D.

Christian H. Jorgensen PRESIDENT
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2014
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS
 CHRISTIAN H. JORGENSEN
 LAKE VILLA, ILLINOIS

JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 FRANKLINVILLE ROAD

LIMITS: TRIBUTARY OF KISHWAUKEE RIVER COUNTY: McHENRY
 SECTION: 10-00378-00-BR JOB NO.: R-55-001-97
 STATION NONE TO STATION
 SCALE: 1"=40' SHEET 3 OF 5

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

FILE NAME = M:\Pro\pers\2012\120184 - Franklville\Plat\GDD\Civil\0\gms\Shst\Plat_83.dgn

WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174

USER NAME = nporris	DESIGNED -	REVISED -
PLOT SCALE = 1:100	DRAWN -	REVISED -
PLOT DATE = 1/30/2015	CHECKED -	REVISED -
	DATE - 02/02/2015	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET NO. 3 OF 5 SHEETS	STA.	TO STA.
--------	-------------------------	------	---------

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	McHENRY	91	39
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

PART OF THE EAST 1/2 OF SEC. 22 AND PART OF THE WEST 1/2 OF SEC. 23, TWP. 44 N., R. 6 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

LEGEND

SECTION CORNER: 9 10 / 16 15
 QUARTER SECTION CORNER: 16 15

SECTION LINE
 QUARTER SECTION LINE
 QUARTER, QUARTER SECTION LINE
 PLATTED LOT LINE
 PROPERTY (DEED) LINE

APL APPARENT PROPERTY LINE
 EXISTING CENTER LINE
 PROPOSED CENTER LINE
 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
 RECORD DIMENSION

EXISTING BUILDING

SCALE: 1"=40'

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

○ IRON PIPE OR ROD FOUND ⊕ "MAG" NAIL SET
 + CUT CROSS FOUND OR SET ● 5/8" REBAR SET

● T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 T2
 T3

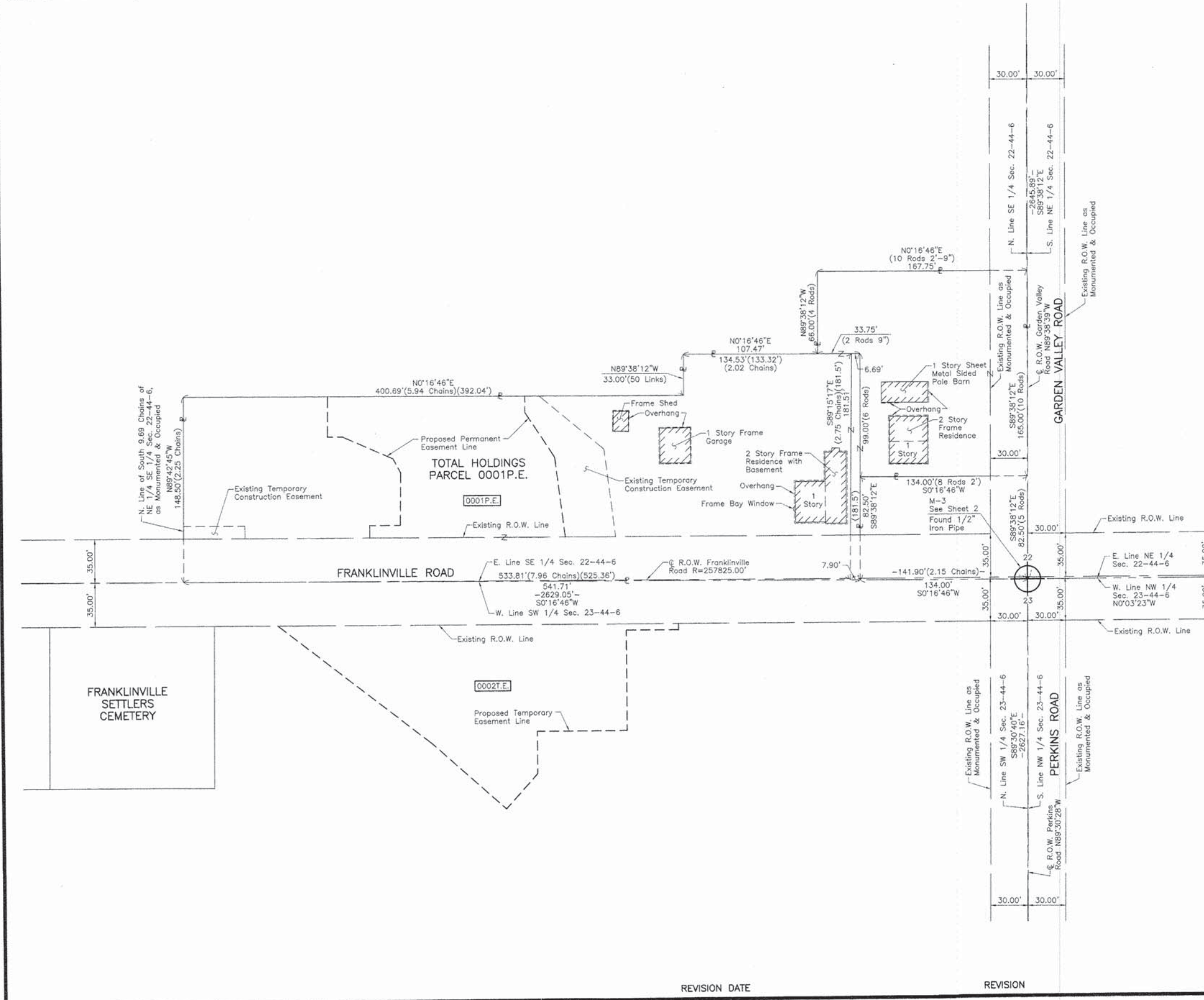
● BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 BT2
 BT3

■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.

■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.

⊙ PERMANENT SURVEY MARKER, I.D.O.T STD 21:35 (TO BE SET BY OTHERS)

□ RIGHT OF WAY STAKING PROPOSED TO BE SET.



STATE OF ILLINOIS }
 COUNTY OF LAKE } SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, TOWNSHIP 44N., RANGE 6E., AND SECTION 23, TOWNSHIP 44N., RANGE 6E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, 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 ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 19TH DAY OF December 20¹⁴ A.D.

Christian H. Jorgensen PRESIDENT
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2016
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

CHRISTIAN H. JORGENSEN
 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS
 LAKE VILLA, ILLINOIS

JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 FRANKLINVILLE ROAD

LIMITS: TRIBUTARY OF KISHWAUKEE RIVER COUNTY: McHENRY
 SECTION: 10-00378-00-BR JOB NO.: R-55-001-97
 STATION NONE TO STATION
 SCALE: 1"=40' SHEET 3A OF 5

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

REVISION DATE REVISION MADE BY

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 116 West Main Street, Suite 201
 St. Charles, Illinois 60174

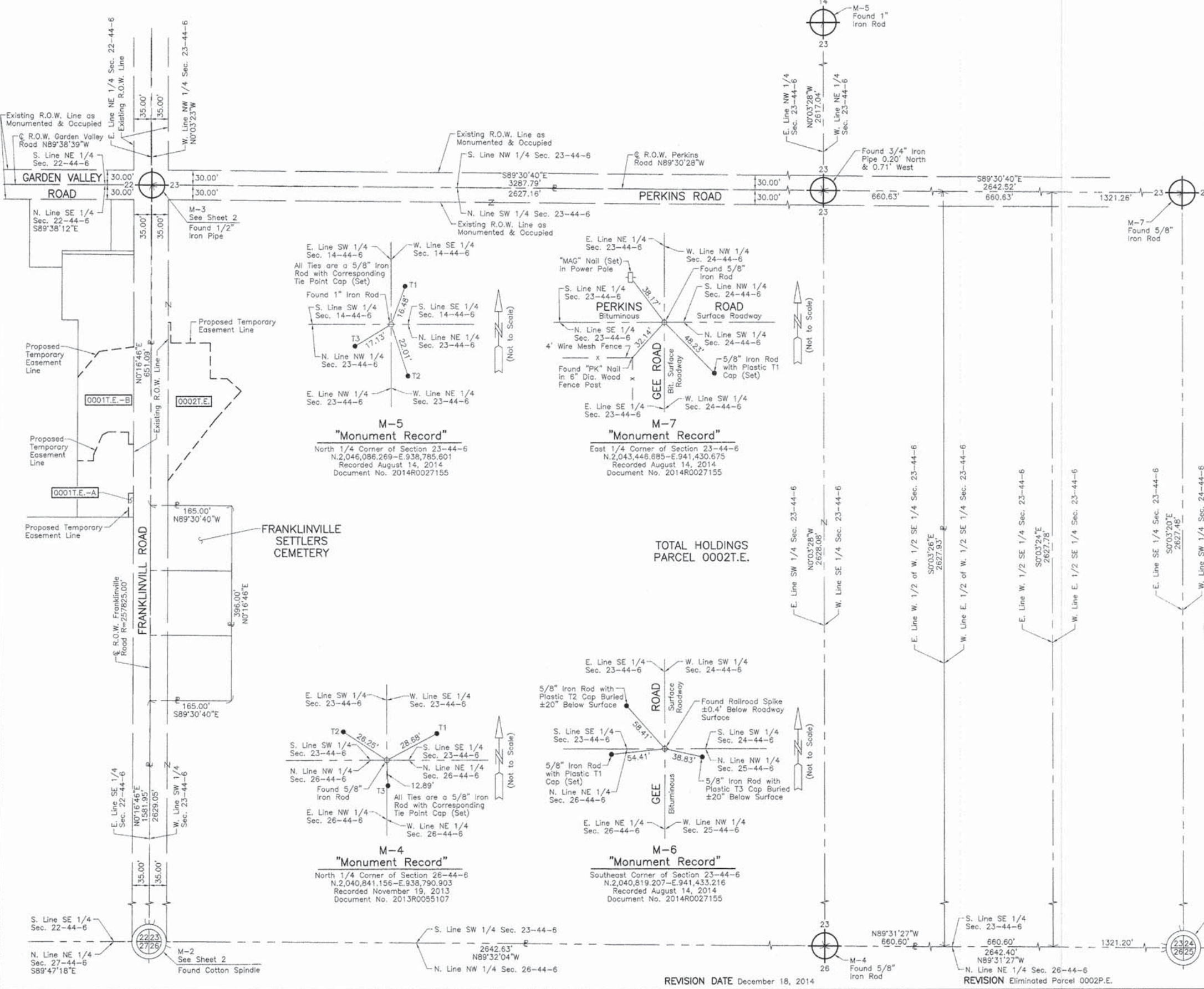
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET NO. 4 OF 5 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	McHENRY	91	40
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

PART OF THE EAST 1/2 OF SEC. 22 AND PART OF THE SOUTH 1/2 AND NORTH 1/2 OF SEC. 23, TWP. 44 N., R. 6 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER, QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- EXISTING CENTER LINE
- PROPOSED CENTER LINE
- 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
- RECORD DIMENSION
- EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

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

STATE OF ILLINOIS }
COUNTY OF LAKE } SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 22, TOWNSHIP 44N., RANGE 6E. AND SECTION 23, TOWNSHIP 44N., RANGE 6E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, 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 ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LAKE VILLA, ILLINOIS THIS 15th DAY OF August 2014.

Christian H. Jorgensen PRESIDENT
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
LICENSE EXPIRATION DATE: NOVEMBER 30, 2014
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.
Note: Surface Coordinates are Shown

Scale: 1"=100'

STATE OF ILLINOIS }
COUNTY OF LAKE } SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 22, TOWNSHIP 44N., RANGE 6E. AND SECTION 23, TOWNSHIP 44N., RANGE 6E., OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY, 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 ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

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Note: Surface Coordinates are Shown

JORGENSEN & ASSOCIATES, INC.
120 PARK AVENUE
LAKE VILLA, ILLINOIS 60046
(847) 356-3371

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FRANKLINVILLE ROAD

LIMITS: TRIBUTARY OF KISHWAUKEE RIVER COUNTY: McHENRY
SECTION: 10-00378-00-BR JOB NO.: R-55-001-97
STATION NONE TO STATION
SCALE: 1"=100' SHEET 4 OF 5

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

REVISION DATE December 18, 2014

REVISION Eliminated Parcel 0002P.E.

MADE BY

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116 West Main Street, Suite 201
St. Charles, Illinois 60174

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	DATE = 02/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

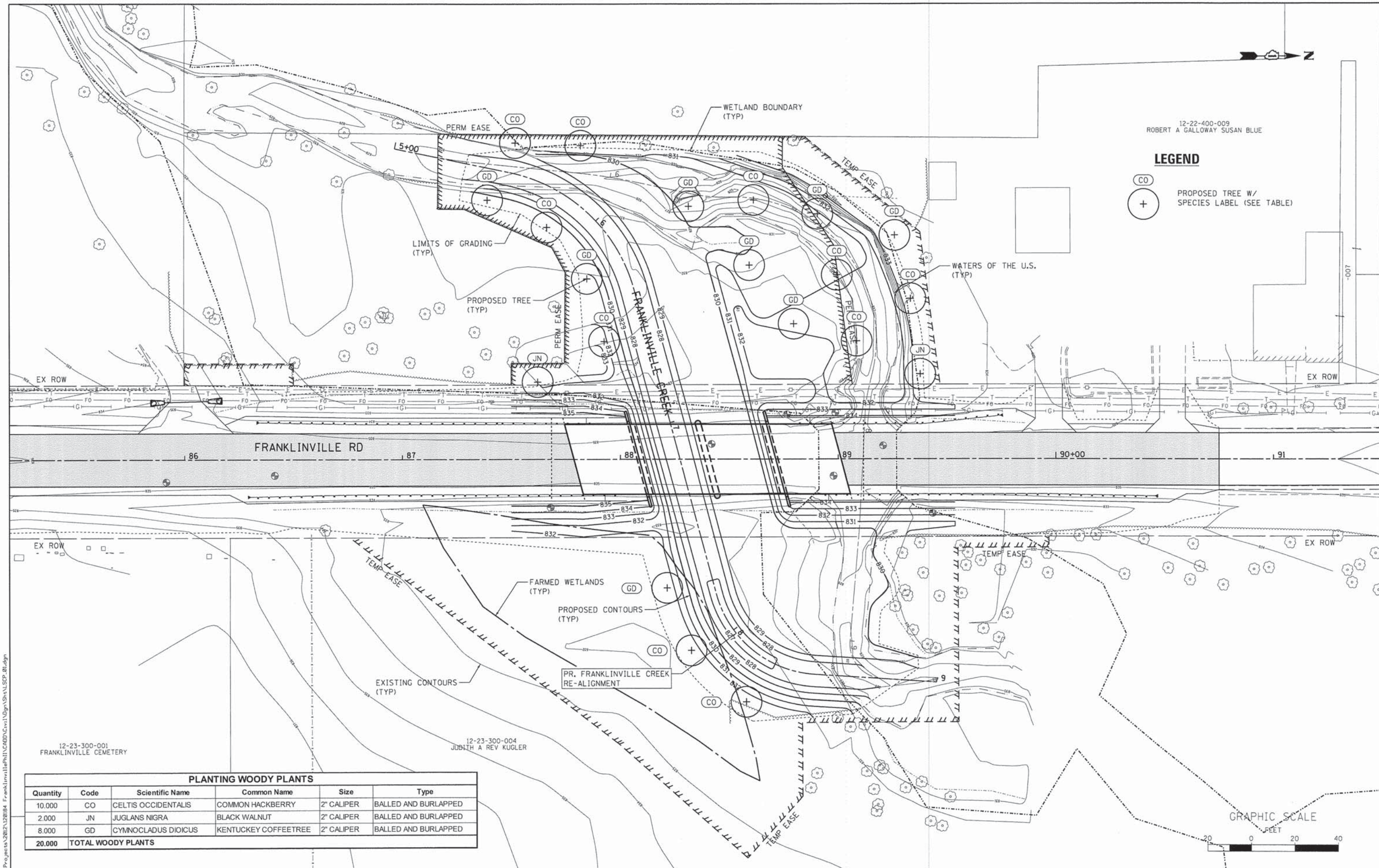
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	McHENRY	91	41
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

12-22-400-009
ROBERT A GALLOWAY SUSAN BLUE

LEGEND

CO
+
PROPOSED TREE W/
SPECIES LABEL (SEE TABLE)



12-23-300-001
FRANKLINVILLE CEMETERY

12-23-300-004
JUBITH A REV KUGLER

PLANTING WOODY PLANTS					
Quantity	Code	Scientific Name	Common Name	Size	Type
10,000	CO	CELTIS OCCIDENTALIS	COMMON HACKBERRY	2" CALIPER	BALLED AND BURLAPPED
2,000	JN	JUGLANS NIGRA	BLACK WALNUT	2" CALIPER	BALLED AND BURLAPPED
8,000	GD	CYMNOCCLUS DIOICUS	KENTUCKY COFFEETREE	2" CALIPER	BALLED AND BURLAPPED
20,000	TOTAL WOODY PLANTS				

GRAPHIC SCALE
0 20 40
FEET

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116 West Main Street, Suite 201
St. Charles, Illinois 60174

USER NAME = nporris	DESIGNED - MNB	REVISED -
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PLOT DATE = 1/30/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LANDSCAPE PLANTING PLAN

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

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 46
CONTRACT NO. 61B25				ILLINOIS FED. AID PROJECT

BENCHMARK

Railroad spike (set) in power pole in the Northwest quadrant of the intersection of Franklinville Road and Garden Valley Road. Sta. 93+09.11, Elev. 837.27.

EXISTING STRUCTURE

S.N. 056-3016 was constructed in 1954 under F.A.S. Rte. 33, Sec. 19 B-1 at Sta. 89+09. The existing structure is a single-span wide-flange steel beam bridge with 6 1/2" concrete deck and 5 1/2" bituminous overlay supported on reinforced concrete closed abutments on spread footings and untreated timber piling. The structure measures 39'-0" back to back of abutments and 26'-0" out to out deck. There is steel railing on concrete curbs on both sides of the superstructure that measures 24'-0" face to face of curb.

PROPOSED IMPROVEMENTS

Proposed two-span slab bridge on integral abutments to be constructed at Sta. 88+40 (south of existing structure) and waterway channel shall be realigned. Existing structure is to be removed after new channel is established. Traffic is to be detoured.

SALVAGE

Existing structure to remain in place during construction of new bridge. North approach slab to be constructed after existing bridge is removed. No salvage.

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevations (ft.)			
	S. Abut.	Pier	N. Abut.
Q100	830.08	820.25	829.98

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
3. Riprap Details
4. Top of Slab Elevations
5. Top of Approach Slab Elevations
6. Superstructure
7. Superstructure Details
- 8-9. Bridge Approach Slab Details
10. Steel Railing, Type SM
11. South Abutment
12. North Abutment
13. Pier
14. Metal Shell Pile Details
15. Bar Splicer Assembly Details
- 16-17. Soil Borings

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

DESIGN STRESSES

FIELD UNITS

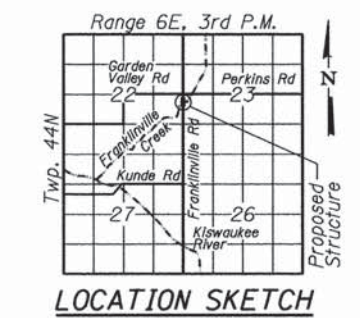
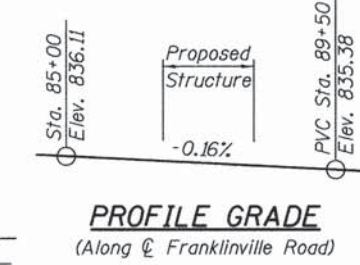
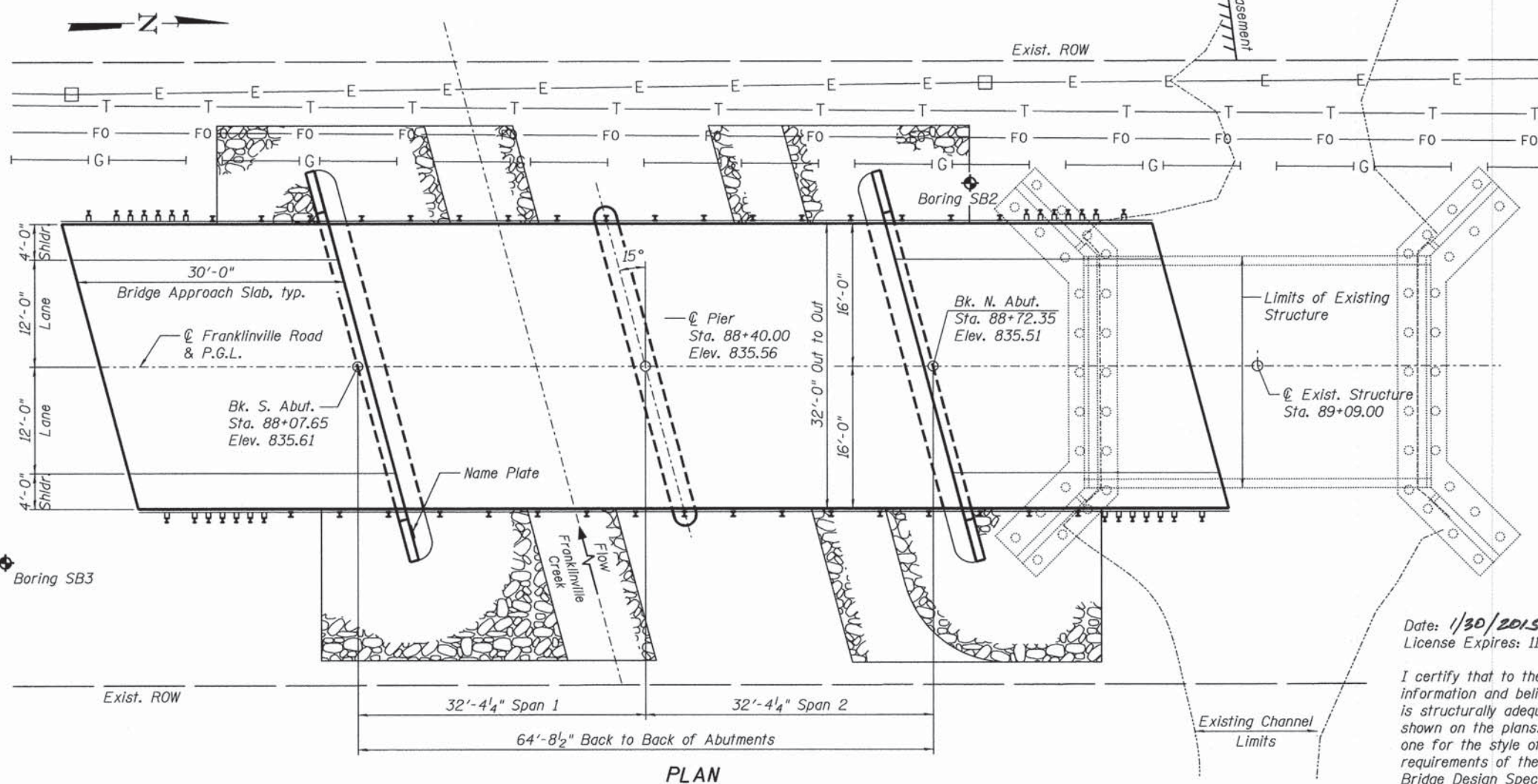
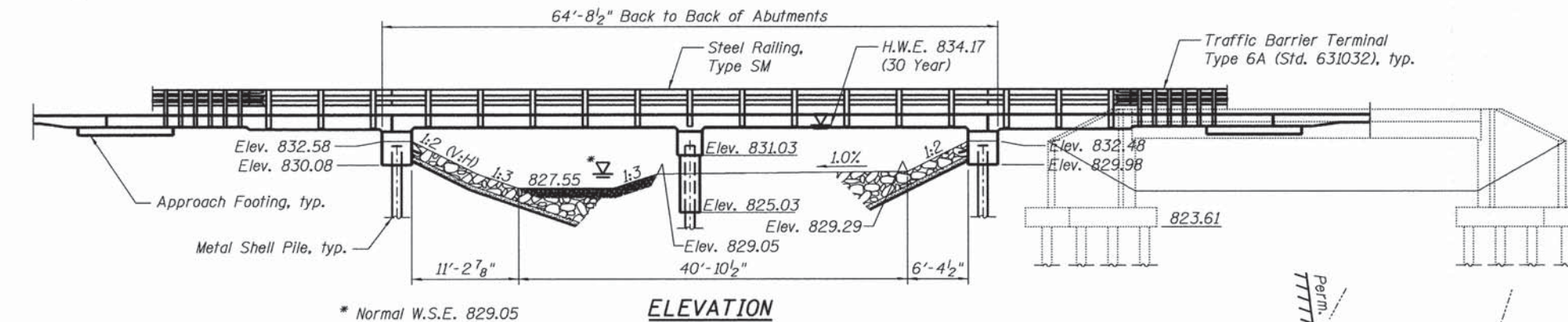
f'c = 3,500 psi
f'c = 5,000 psi (Deck & Appr.)
fy = 60,000 psi (Reinforcement)

LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = .079g
Design Spectral Acceleration at 0.2 sec. (S_{Ds}) = .136g
Soil Site Class = D



WATERWAY INFORMATION

Drainage Area = 10.1 sq. mi. Exist. Low Grade Elev. 835.32 at Sta. 88+00
Prop. Low Grade Elev. 835.37 at Sta. 90+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	2	704	146	215	833.10	0.78	0	833.88	832.91
	10	1161	146	244	833.72	1.77	0.55	835.49	834.27
Design	30	1605	146	256	834.17	1.62	0.52	835.79	834.69
Base	100	2281	146	256	834.80	1.48	0.63	836.28	835.43
Overtopping									
Max. Calc.	500	3823	146	256	835.64	0.87	0.52	836.51	836.16

10-Year Velocity through Existing Bridge = 3.7 ft/s
10-Year Velocity through Proposed Bridge = 3.4 ft/s



Date: 1/30/2015
License Expires: 11/30/2016

I certify that to the best of my knowledge, information and belief, the bridge and design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Bridge Design Specifications".

GENERAL PLAN AND ELEVATION
FRANKLINVILLE ROAD OVER
FRANKLINVILLE CREEK
SECTION 10-00378-00-BR
McHENRY COUNTY
STATION 88+40.00
STRUCTURE NO. 056-3195

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St. Charles, Illinois 60174
(630) 443-7750

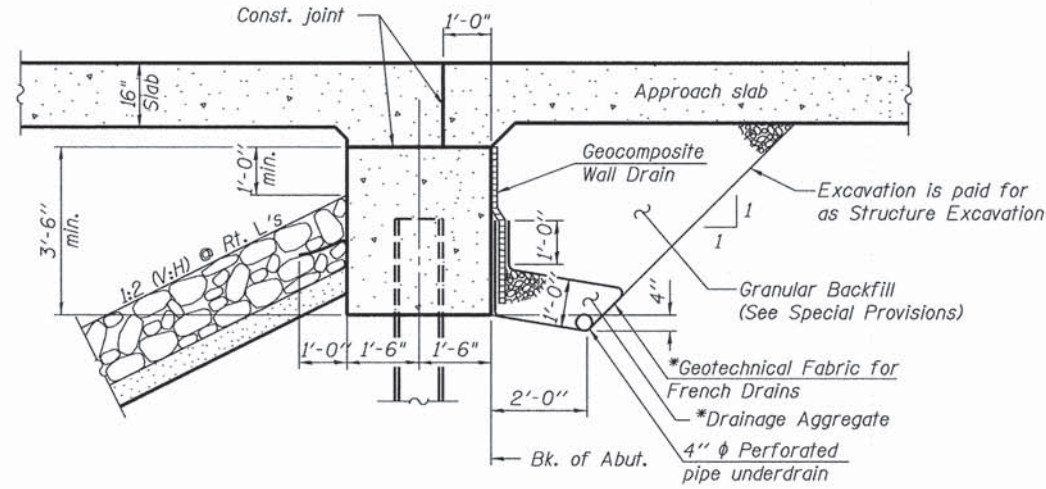
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	McHENRY	91	47
CONTRACT NO. 61B25				
FED. ROAD DIST. NO.	FED. AID PROJECT			

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Refer to Sheet 3 of 17 for layout of the slope protection system. Layout may be varied to suit ground conditions in the field as directed by the Engineer.
3. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.
4. Removal of existing bridge railing and bituminous overlay to be included in the cost of Removal of Existing Structures.



SECTION THRU ABUTMENT
(Horiz. dim. @ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures.
(See Special Provisions).

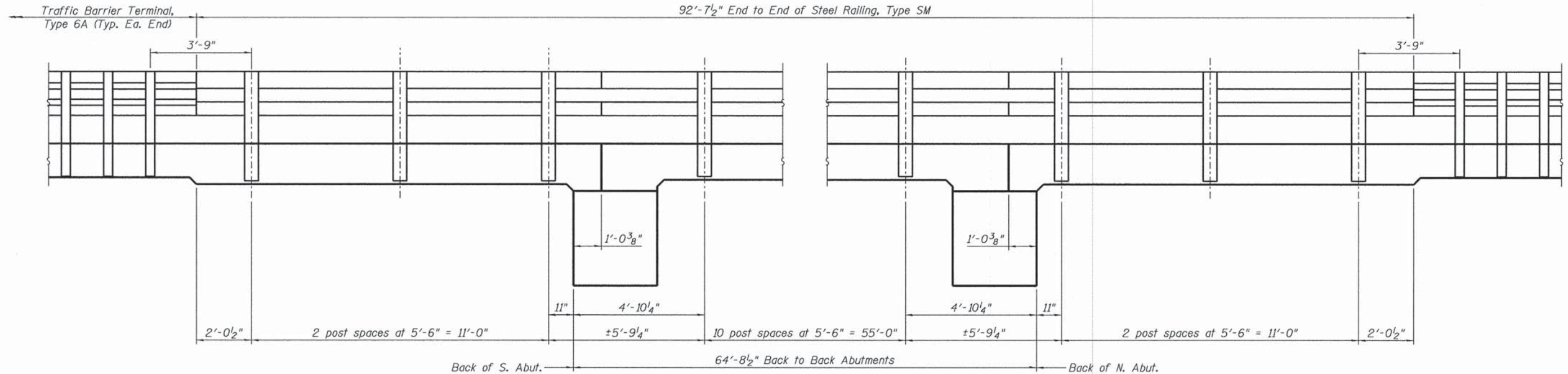
Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		351	351
Filter Fabric	Sq. Yd.		351	351
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		232	232
Concrete Structures	Cu. Yd.	20.5	53.3	73.8
Concrete Superstructure	Cu. Yd.	195.6		195.6
Bridge Deck Grooving	Sq. Yd.	436		436
Protective Coat	Sq. Yd.	455		455
Reinforcement Bars, Epoxy Coated	Pound	58,620	7,360	65,980
Bar Splicers	Each		33	33
Steel Railing, Type SM	Foot	186		186
Furnishing Metal Shell Piles 14"x0.312"	Foot		556	556
Driving Piles	Foot		556	556
Test Pile Metal Shells	Each		3	3
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		36	36
Granular Backfill for Structures	Cu. Yd.		56	56
Pipe Underdrains for Structures, 4"	Foot		126	126

FRANKLINVILLE CREEK
BUILT 201_ BY
McHENRY COUNTY DIVISION OF TRANSPORTATION
SEC. 10-00378-00-BR
F.A.S. RT. 33 STA. 88+40
STR. NO. 056-3195 LOADING HL-93

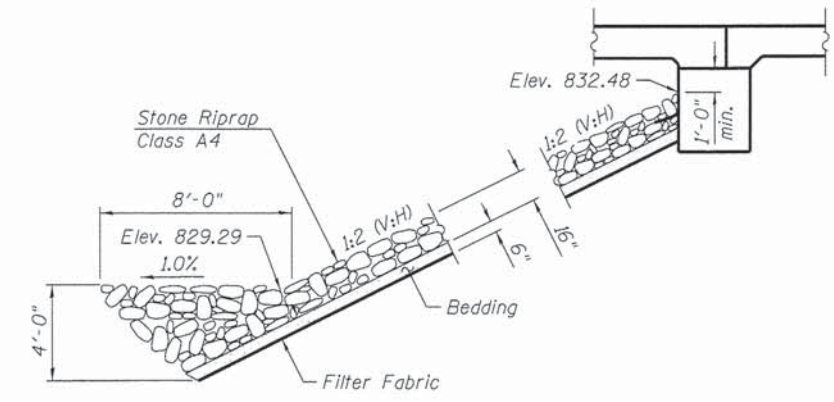
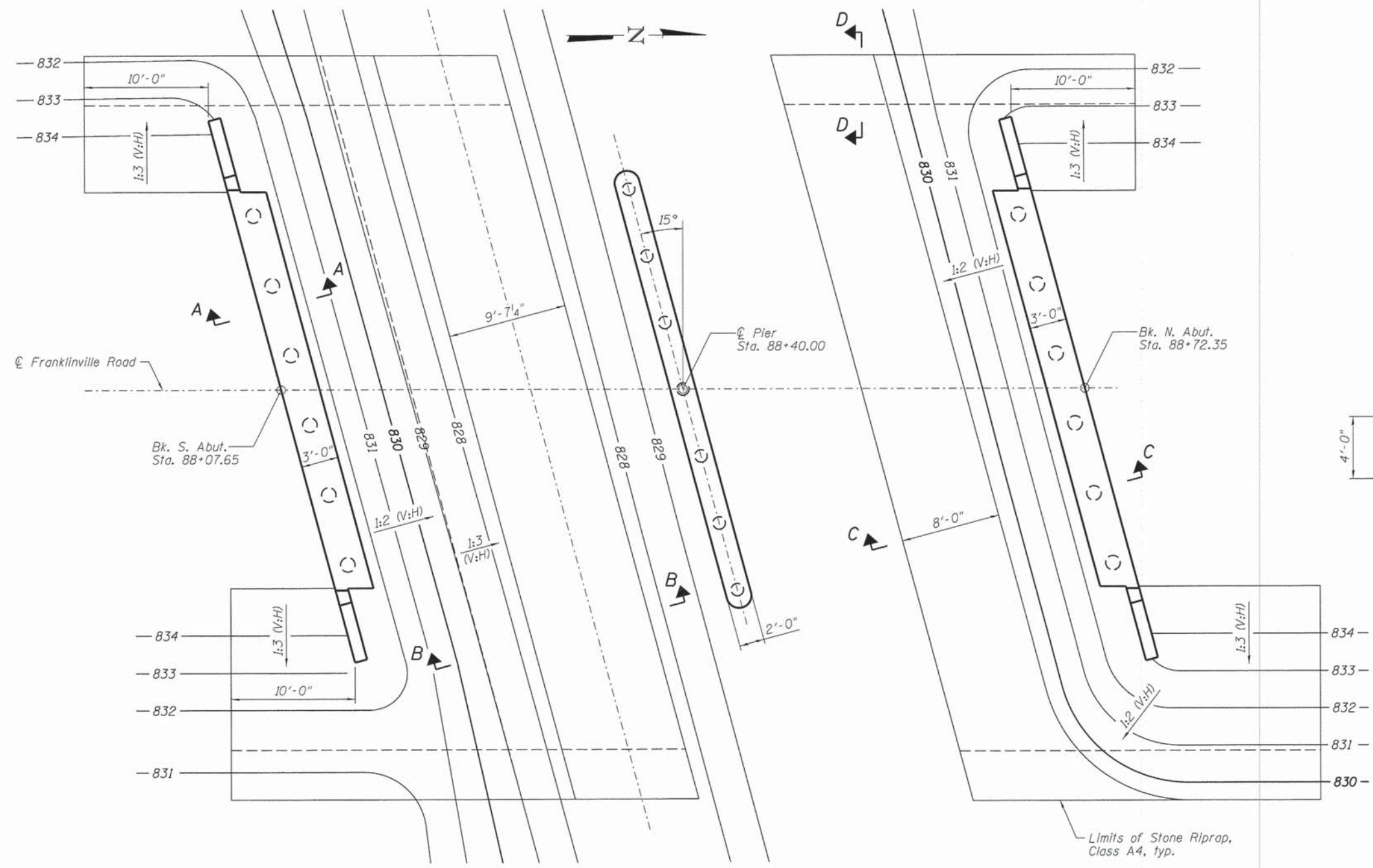
NAME PLATE
See Std. 515001



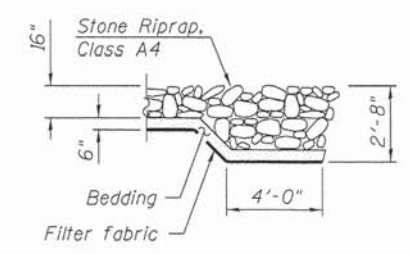
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BILL OF MATERIAL

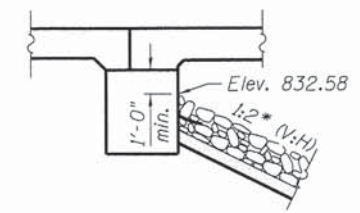
Item	Unit	Quantity
Stone Riprap, Class A4	Sq. Yd.	351



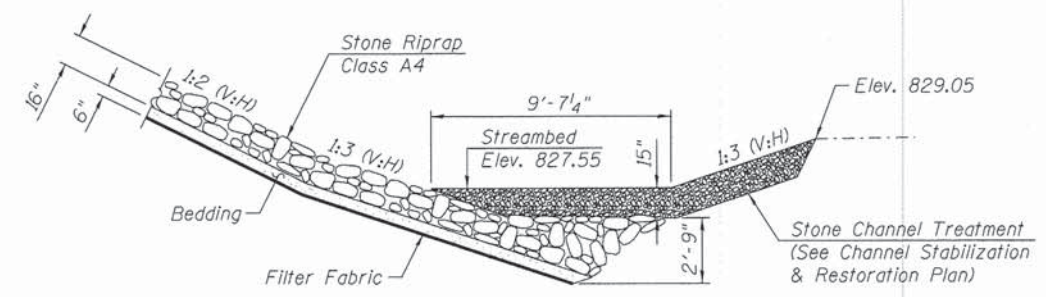
SECTION C-C
@ Rt. L's to abutment



SECTION D-D



SECTION A-A
@ Rt. L's to abutment



SECTION B-B
@ Rt. L's to ϕ of Channel

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

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St. Charles, Illinois 60174
(630) 443-7755

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RIPRAP DETAILS
STRUCTURE NO. 056-3195
SHEET NO. 3 OF 17 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	MCHENRY	91	49
FED. ROAD DIST. NO.		FED. AID PROJECT		
CONTRACT NO. 61B25				

WEST EDGE OF SLAB

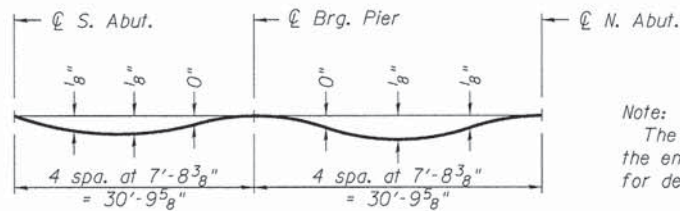
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
S. End of Slab	88+04.39	-16.00'	835.35	835.35
☉ S. Abut	88+04.91	-16.00'	835.35	835.35
A	88+14.91	-16.00'	835.33	835.32
B	88+24.91	-16.00'	835.31	835.31
☉ Pier	88+35.71	-16.00'	835.30	835.30
C	88+45.71	-16.00'	835.28	835.27
D	88+55.71	-16.00'	835.26	835.25
☉ N. Abut	88+66.51	-16.00'	835.25	835.25
N. End of Slab	88+67.03	-16.00'	835.24	835.24

WEST EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
S. End of Slab	88+05.47	-12.00'	835.43	835.43
☉ S. Abut	88+05.98	-12.00'	835.43	835.43
A	88+15.98	-12.00'	835.41	835.40
B	88+25.98	-12.00'	835.39	835.39
☉ Pier	88+36.78	-12.00'	835.38	835.38
C	88+46.78	-12.00'	835.36	835.35
D	88+56.78	-12.00'	835.34	835.34
☉ N. Abut	88+67.58	-12.00'	835.33	835.33
N. End of Slab	88+68.10	-12.00'	835.33	835.33

☉ ROADWAY & PGL

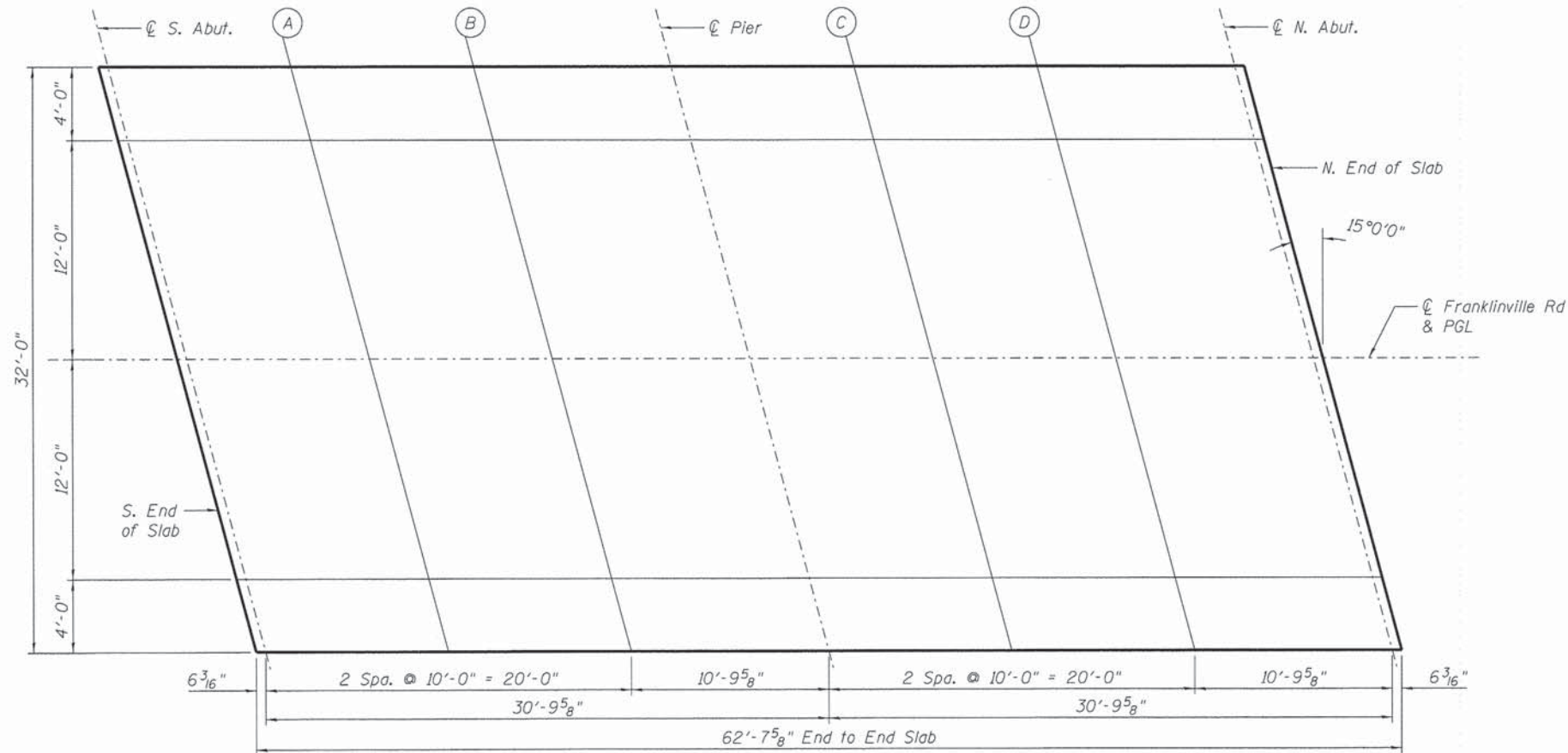
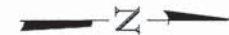
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
S. End of Slab	88+08.68	0.00'	835.61	835.61
☉ S. Abut	88+09.20	0.00'	835.61	835.61
A	88+19.20	0.00'	835.59	835.58
B	88+29.20	0.00'	835.58	835.57
☉ Pier	88+40.00	0.00'	835.56	835.56
C	88+50.00	0.00'	835.54	835.54
D	88+60.00	0.00'	835.53	835.52
☉ N. Abut	88+70.80	0.00'	835.51	835.51
N. End of Slab	88+71.31	0.00'	835.51	835.51



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The adjacent deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown in the tables.



PLAN

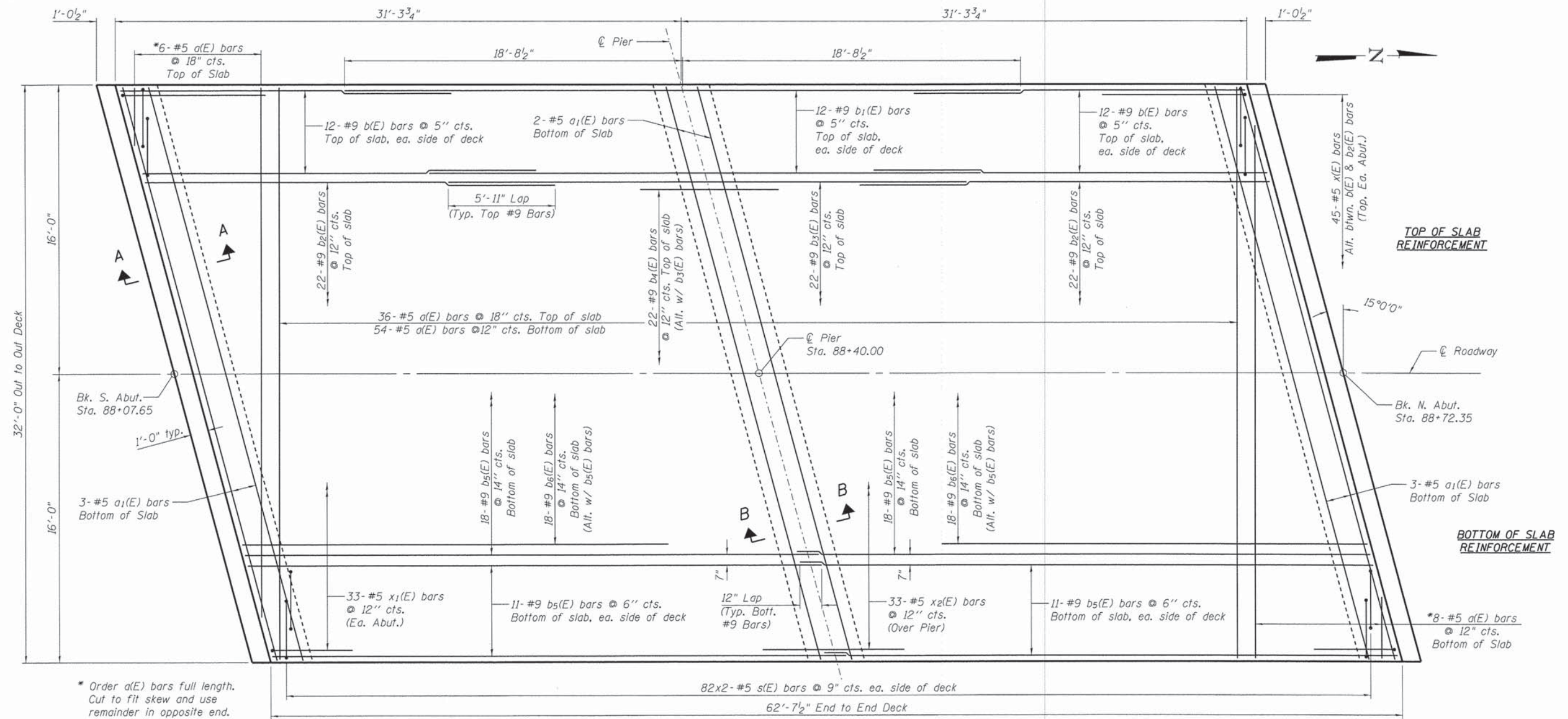
EAST EDGE OF LANE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
S. End of Slab	88+11.90	12.00'	835.42	835.42
☉ S. Abut	88+12.42	12.00'	835.42	835.42
A	88+22.42	12.00'	835.40	835.40
B	88+32.42	12.00'	835.38	835.38
☉ Pier	88+43.22	12.00'	835.37	835.37
C	88+53.22	12.00'	835.35	835.34
D	88+63.22	12.00'	835.33	835.33
☉ N. Abut	88+74.02	12.00'	835.32	835.32
N. End of Slab	88+74.53	12.00'	835.32	835.32

EAST EDGE OF SLAB

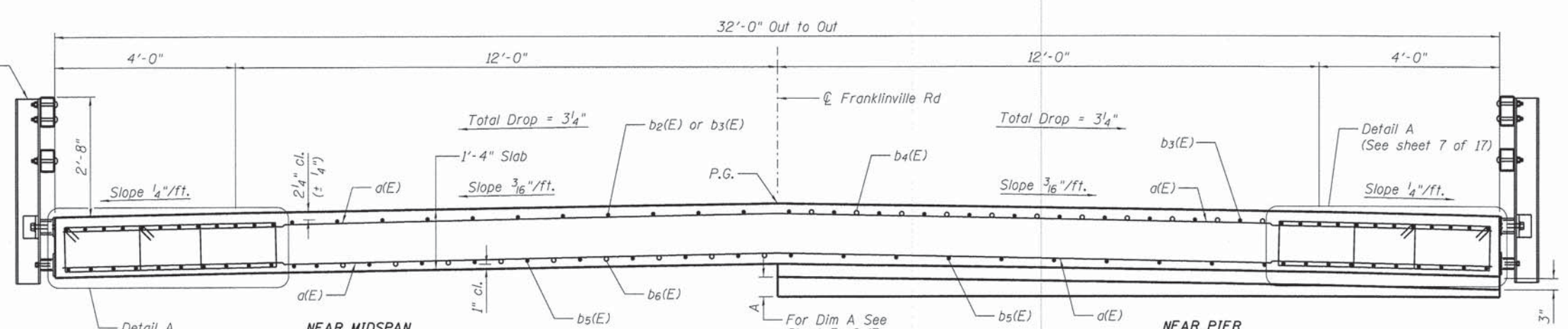
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
S. End of Slab	88+12.97	16.00'	835.33	835.33
☉ S. Abut	88+13.49	16.00'	835.33	835.33
A	88+23.49	16.00'	835.31	835.31
B	88+33.49	16.00'	835.30	835.30
☉ Pier	88+44.29	16.00'	835.28	835.28
C	88+54.29	16.00'	835.26	835.26
D	88+64.29	16.00'	835.25	835.24
☉ N. Abut	88+75.09	16.00'	835.23	835.23
N. End of Slab	88+75.60	16.00'	835.23	835.23

FILE NAME = W:\Projects\2817\1218184 - Franklinville Rd & PGL\Structural\Drawings\0563195-284 - Slab Elevations.dgn



PLAN

* Order a(E) bars full length. Cut to fit skew and use remainder in opposite end.



CROSS SECTION (Looking North)

Notes: See Sheet 7 of 17 for Sections A-A and B-B, superstructure details and Bill of Material.

FILE NAME: \\A\Projects\2012\120184 - Franklinville\PH1\CADD\Structure\09-08-08-5-Structure.dgn

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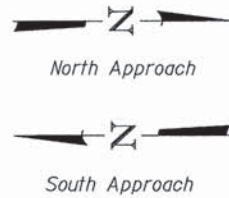
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

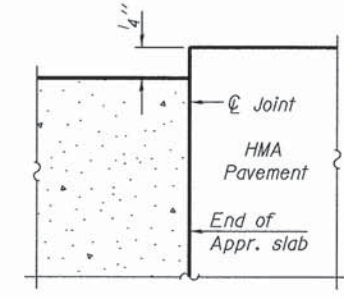
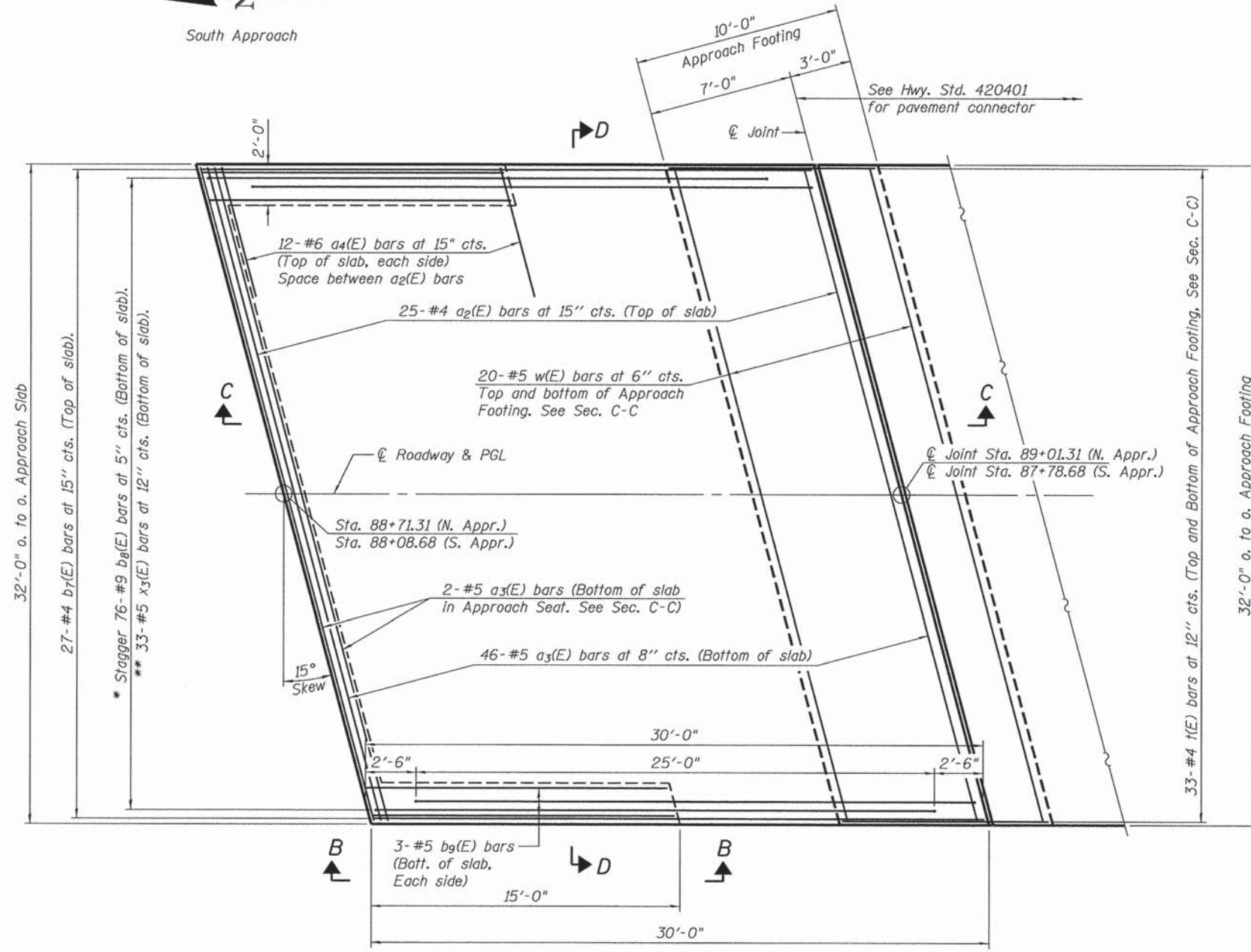
**SUPERSTRUCTURE
 STRUCTURE NO. 056-3195**

SHEET NO. 6 OF 17 SHEETS

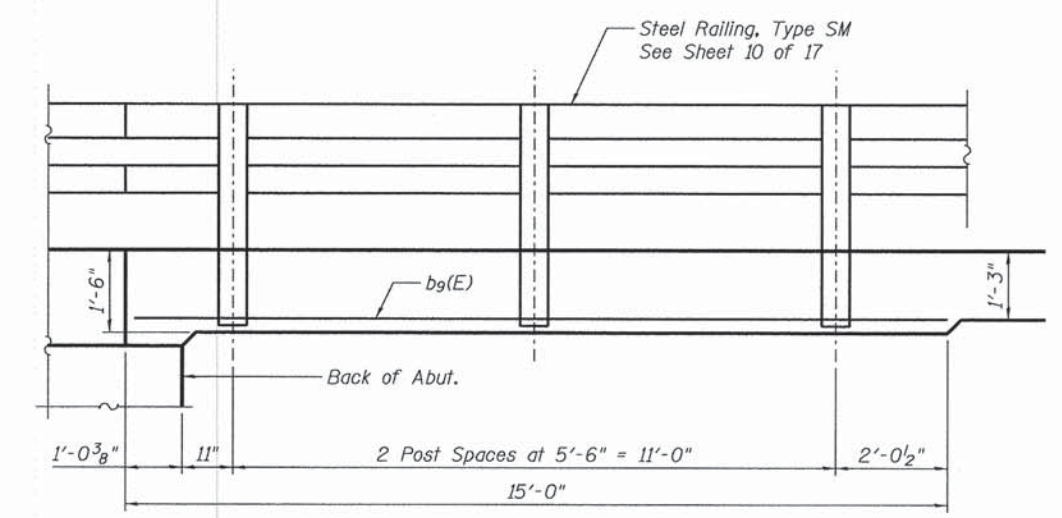
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0033	10-00378-00-BR	MCHENRY	91	52
CONTRACT NO. 61B25				
FED. ROAD DIST. NO.		FED. AID PROJECT		



Notes:
See sheet 9 of 17 for Sections C-C & D-D.
a₂(E), a₃(E) and a₄(E) bar spacings measured along ϕ Rdwy.



FLEXIBLE PAVEMENT
DETAIL A



VIEW B-B

PLAN

* Tilt #9 b₈(E) bars as required to maintain clearance.
** Place bars parallel to ϕ of roadway.

(Sheet 1 of 2)

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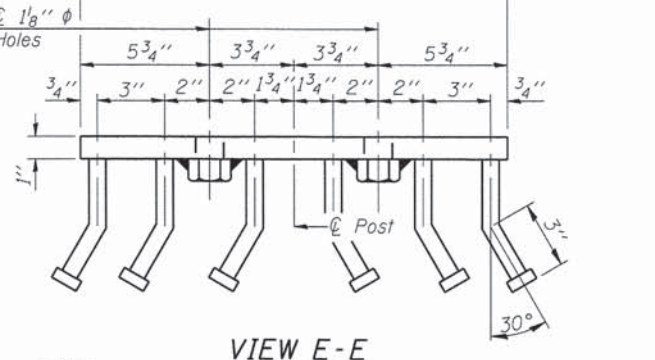
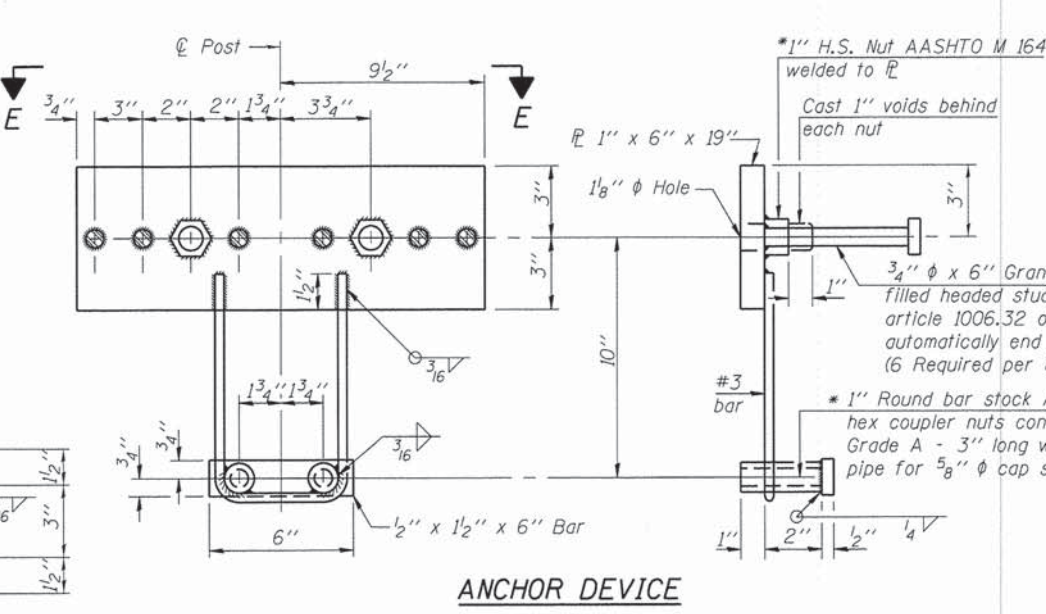
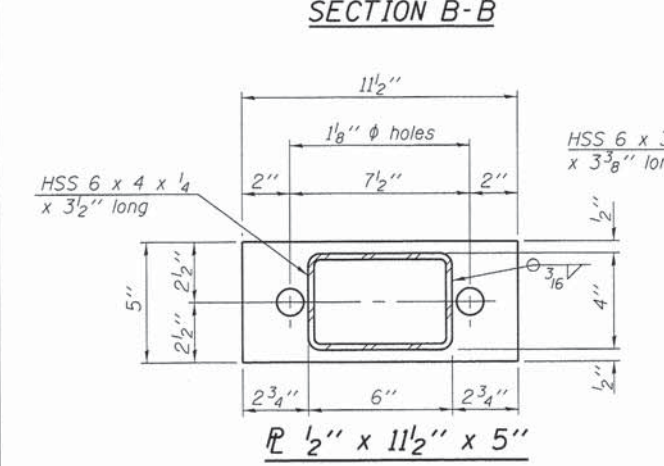
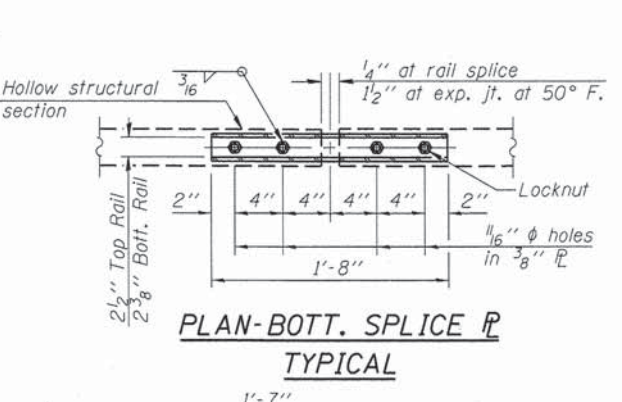
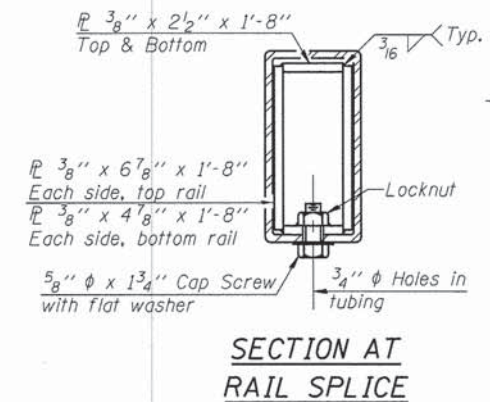
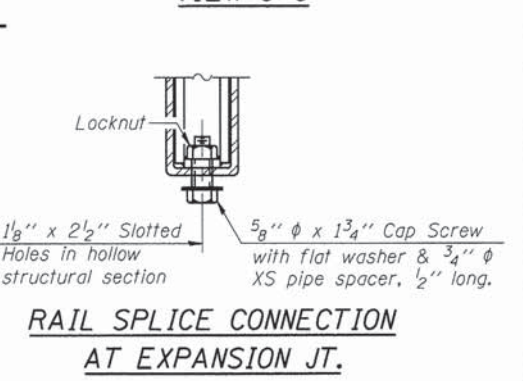
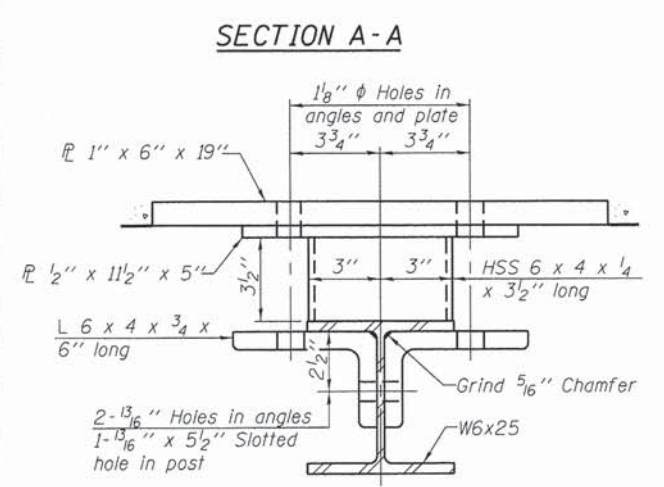
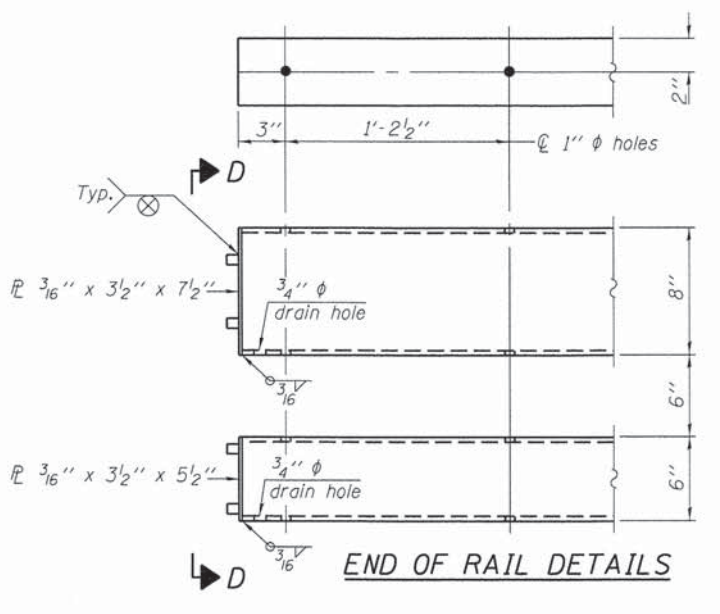
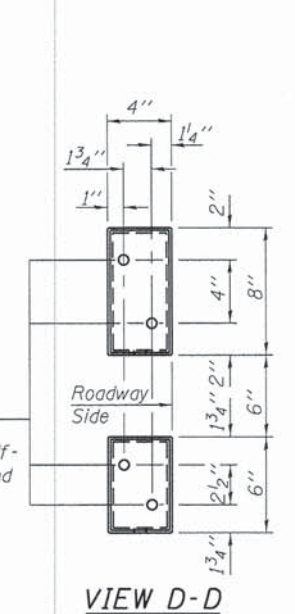
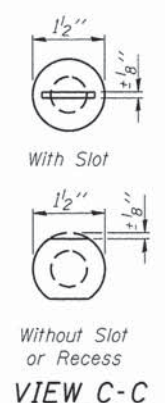
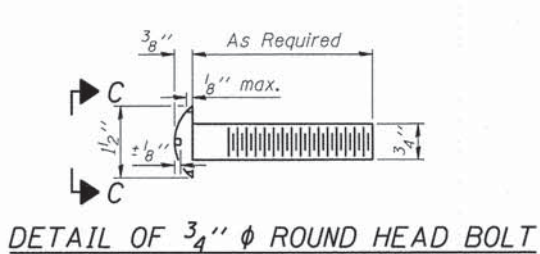
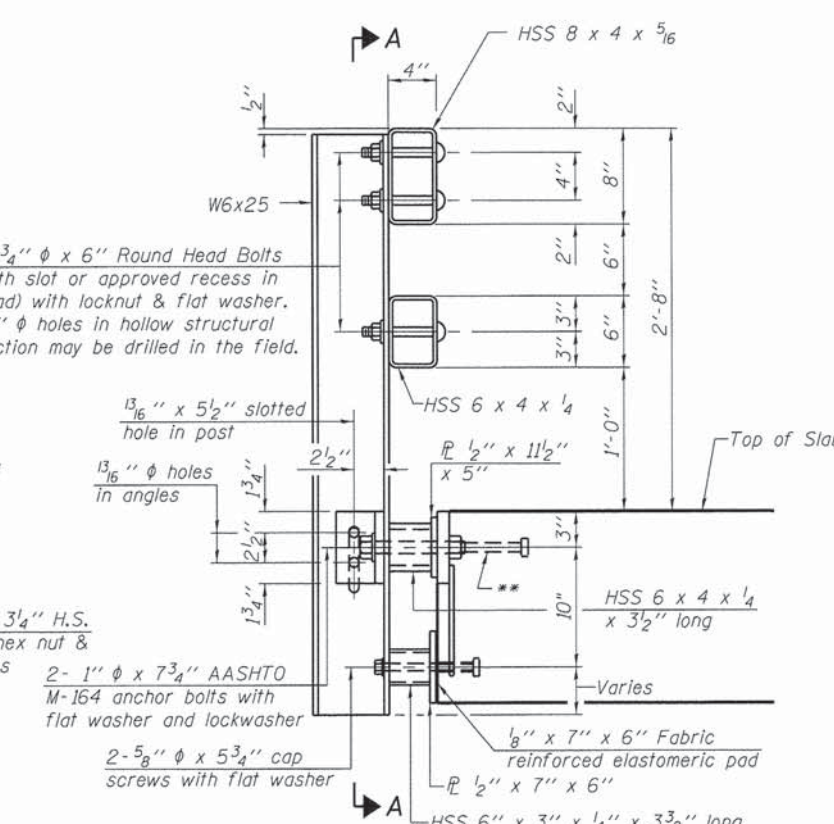
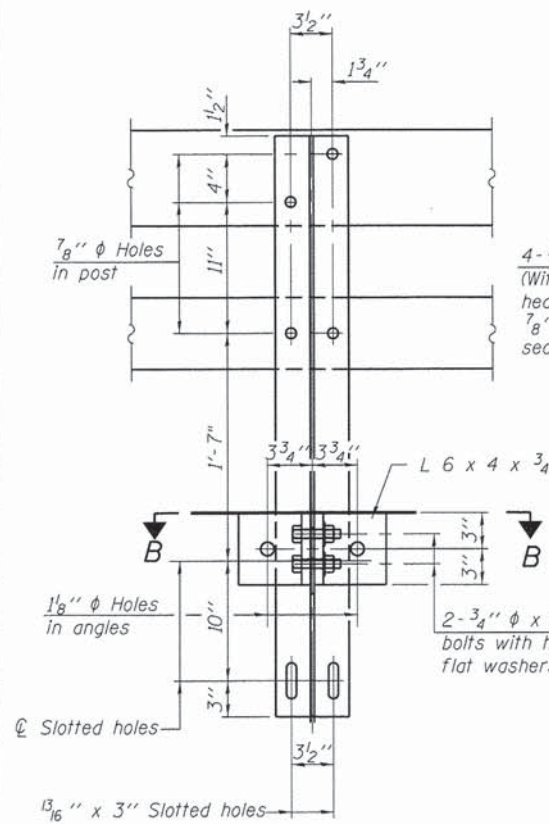
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BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 056-3195

SHEET NO. 8 OF 17 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.		FED. AID PROJECT		

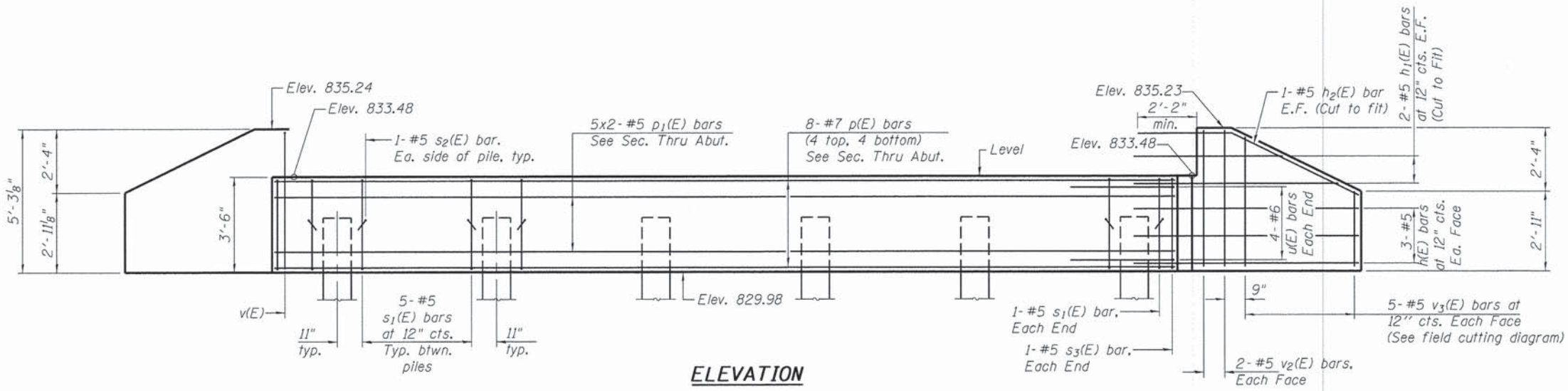


Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
 Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
 ** The studs of the anchor device shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

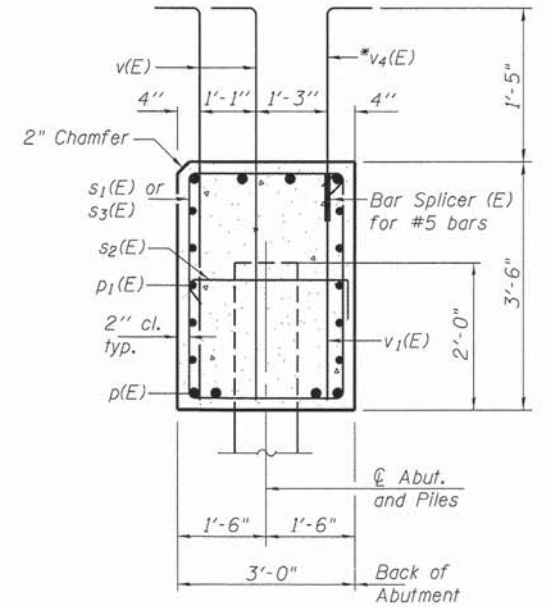
BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	186

Notes:
For details of piles see sheet 14 of 17.



ELEVATION

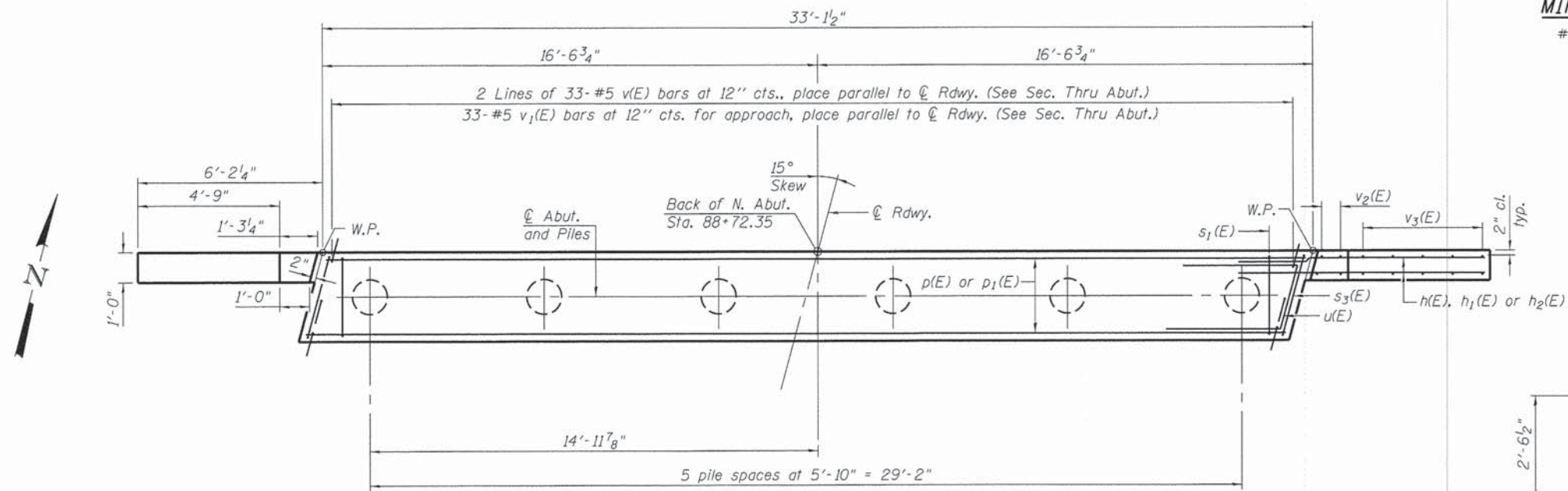


SEC. THRU ABUT.

Dimensions at right angles to abutment.
* v4(E) bars filled with Approach.

MIN. BAR LAP

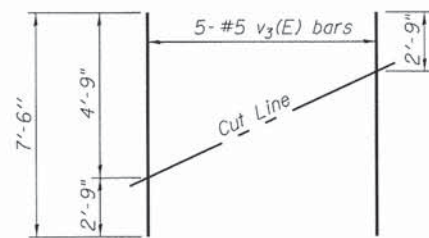
#5 Bar = 2'-7"



PLAN

PILE DATA

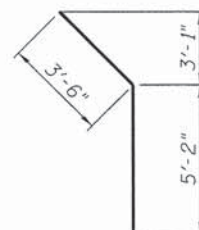
Type: Metal Shell 14" x 0.312"
Nominal Required Bearing: 270 kips
Factored Resistance Available: 148 kips
Est. Length: 34 ft
No. Production Piles: 5
No. Test Piles: 1



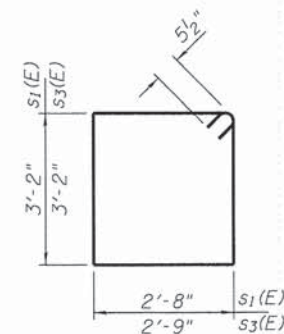
FIELD CUTTING DIAGRAM

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

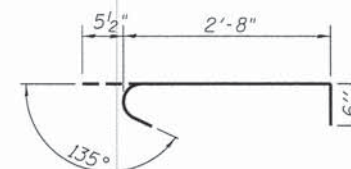
BAR v(E)



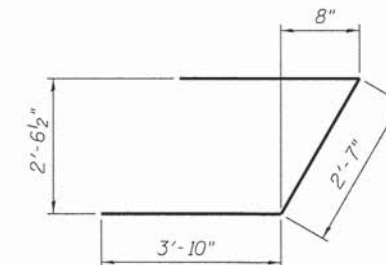
BAR h2(E)



BAR s1(E) & s3(E)



BAR s2(E)



BAR u(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	12	#5	8'-3"	—
h1(E)	8	#5	7'-6"	—
h2(E)	4	#5	8'-8"	—
p(E)	8	#7	32'-9"	—
p1(E)	20	#5	17'-8"	—
s1(E)	27	#5	12'-7"	□
s2(E)	12	#5	3'-8"	□
s3(E)	2	#5	12'-9"	□
u(E)	8	#6	10'-3"	—
v(E)	66	#5	5'-9"	—
v1(E)	33	#5	3'-5"	—
v2(E)	8	#5	4'-11"	—
v3(E)	10	#5	7'-6"	—
Structure Excavation	Cu. Yd.	71		
Concrete Structures	Cu. Yd.	14.4		
Reinforcement Bars, Epoxy Coated	Pound	2,290		
Bar Splicers	Each	33		
Furnishing Metal Shell Piles 14" x 0.312"	Foot	170		
Driving Piles	Foot	170		
Test Pile Metal Shells	Each	1		

Bars indicated thus 5x2-#5 etc. indicate 5 lines of bars with 2 length per line.

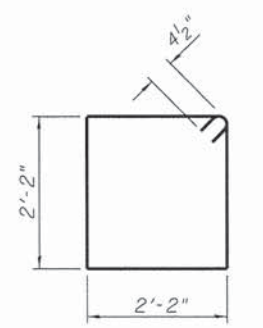
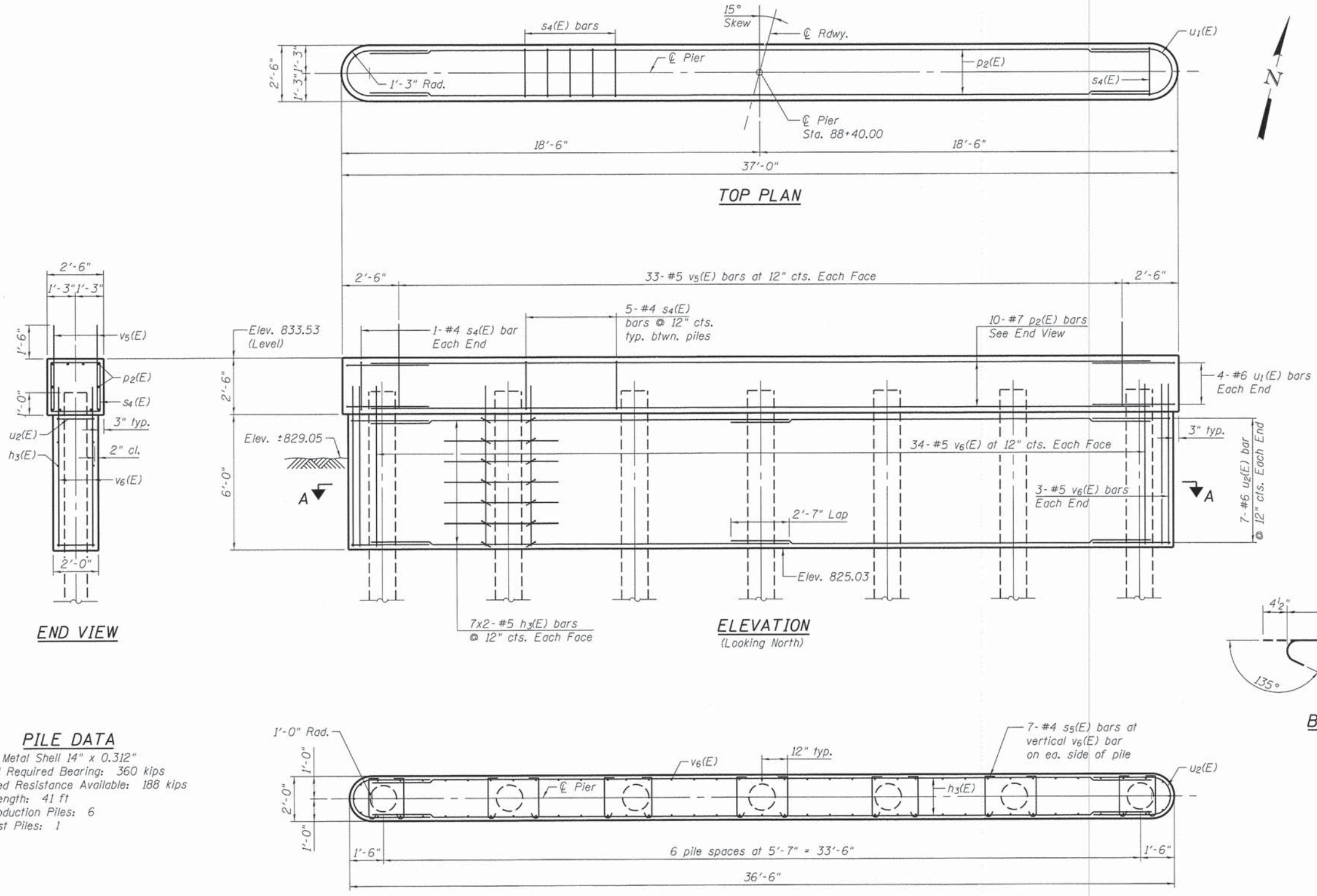
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Notes:
For details of piles see sheet 14 of 17.

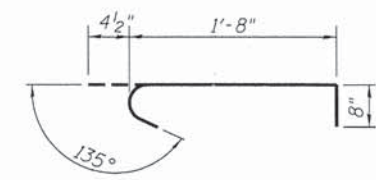
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₃ (E)	28	#5	18'-7"	—
p ₂ (E)	10	#7	34'-6"	—
s ₄ (E)	32	#4	9'-5"	□
s ₅ (E)	98	#4	2'-9"	┌
u ₁ (E)	8	#6	8'-6"	U
u ₂ (E)	14	#6	7'-10"	U
v ₅ (E)	66	#5	3'-9"	—
v ₆ (E)	74	#5	7'-1"	—
Structure Excavation		Cu. Yd.	90	
Concrete Structures		Cu. Yd.	24.5	
Reinforcement Bars, Epoxy Coated		Pound	2,700	
Furnishing Metal Shell Piles 14" x 0.312"		Foot	246	
Driving Piles		Foot	246	
Test Pile Metal Shells		Each	1	

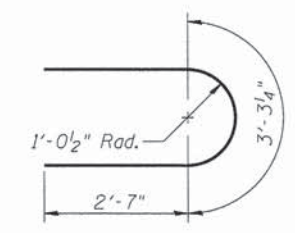
Bars indicated thus 7x2-#5 etc. indicates 7 lines of bars with 2 lengths per line.



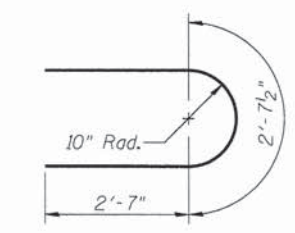
BAR s₄(E)



BAR s₅(E)



BAR u₁(E)



BAR u₂(E)

PILE DATA

Type: Metal Shell 14" x 0.312"
Nominal Required Bearing: 360 kips
Factored Resistance Available: 188 kips
Est. Length: 41 ft
No. Production Piles: 6
No. Test Piles: 1

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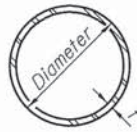
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER
STRUCTURE NO. 056-3195**

SHEET NO. 13 OF 17 SHEETS

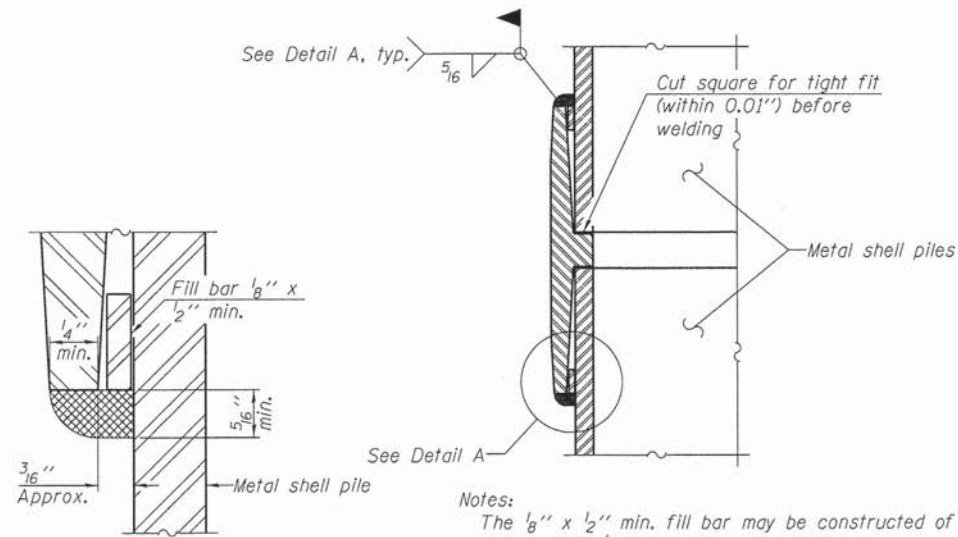
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FED. ROAD DIST. NO.			FED. AID PROJECT	

CONTRACT NO. 61B25



METAL SHELL PILE TABLE

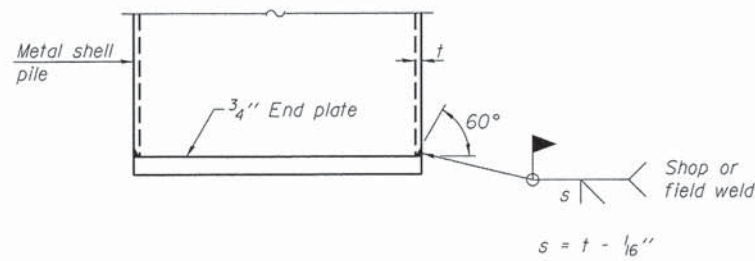
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



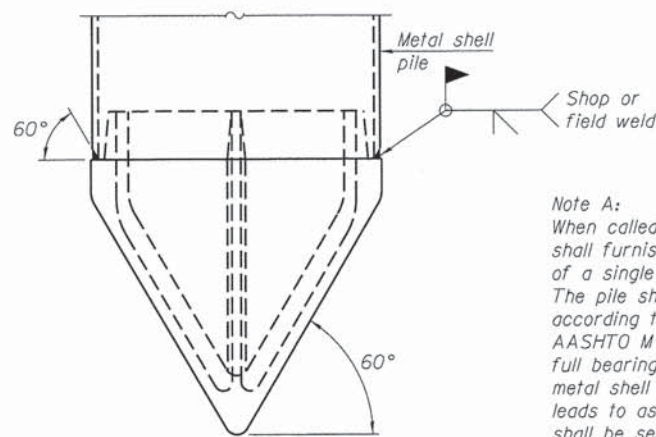
DETAIL A

Notes:
 The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
 Pile segments shall be driven to solid contact with splicer before welding.

WELDED COMMERCIAL SPLICE



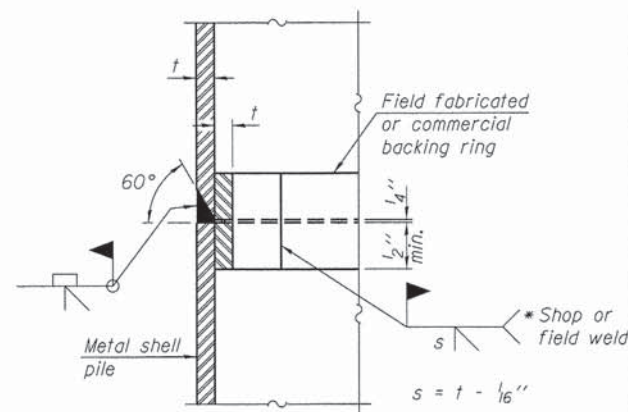
END PLATE ATTACHMENT



Note A:
 When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.

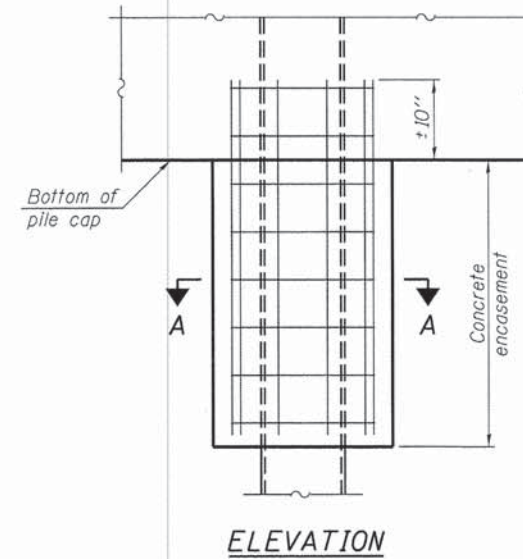
METAL SHELL PILE SHOE ATTACHMENT

(See Note A)

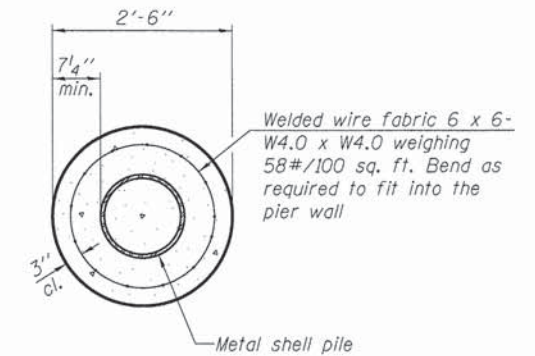


COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



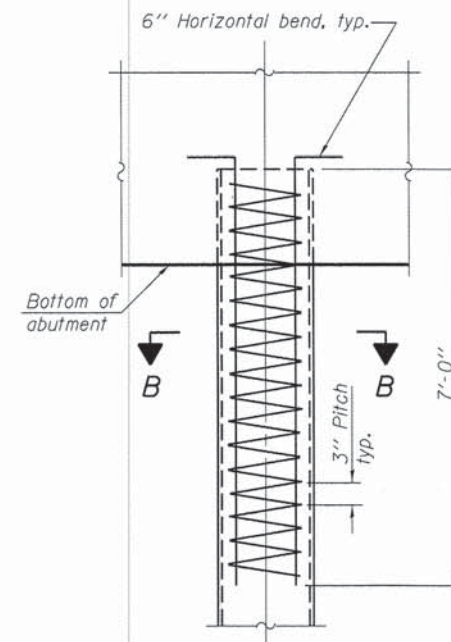
ELEVATION



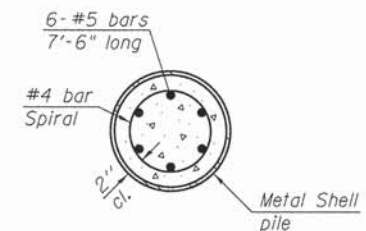
SECTION A-A

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

CONCRETE ENCASEMENT AT PIERS



ELEVATION



SECTION B-B

METAL SHELL REINFORCEMENT AT ABUTMENTS

Note:
 The metal shell piles shall be according to ASTM A 252 Grade 3.

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F-MS 1-27-12

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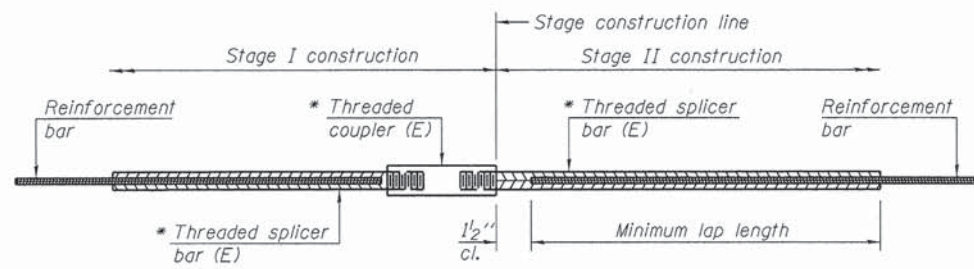
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	CHECKED - AEU	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**METAL SHELL PILE DETAILS
 STRUCTURE NO. 056-3195**

SHEET NO. 14 OF 17 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	MCHENRY	91	60
CONTRACT NO. 61B25				
FED. ROAD DIST. NO.		FED. AID PROJECT		



STANDARD BAR SPLICER ASSEMBLY

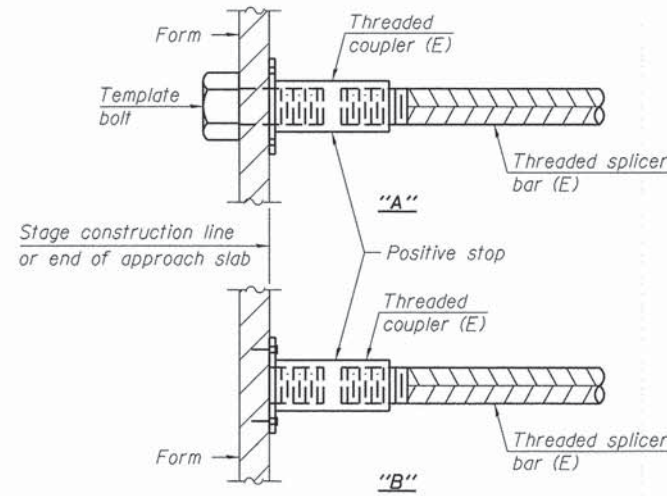
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

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

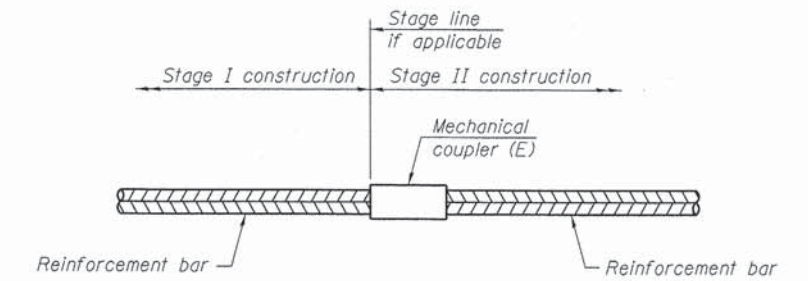
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
North Abutment	5	33	Table C



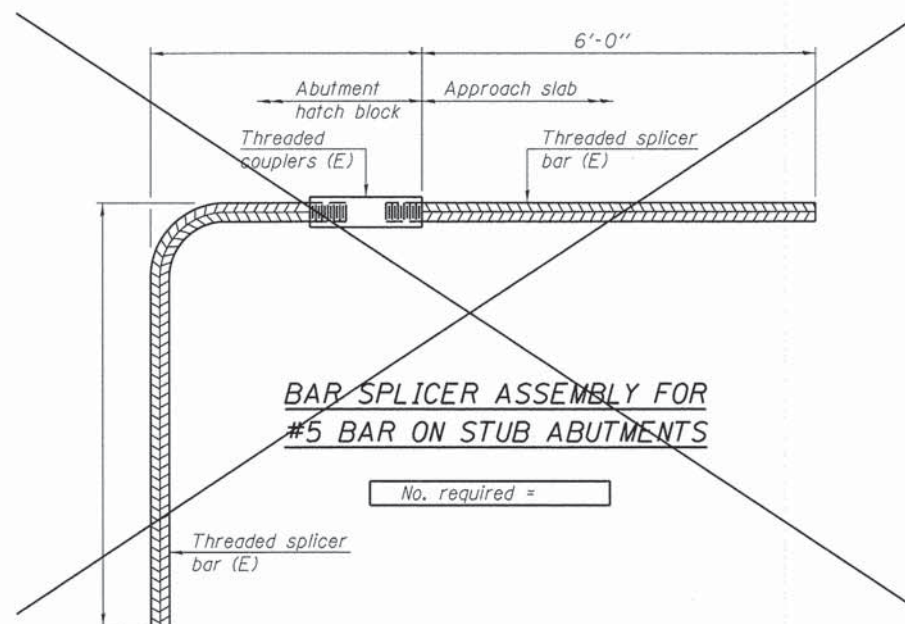
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



NOTES

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

FILE NAME: M:\Projects\2012\1201B4 - Franklin\11e\PH1\CADD\Structure\09\05\02\195-015-Bar Splicer Detail.dgn

Testing Service Corporation

STRUCTURE BORING LOG

Page 1 of 2

Date Started 4/21/11

Date Completed 4/21/11

ROUTE 0033 DESCRIPTION Franklinville Bridge Over Kishwaukee

SECT. 10-00378-00-BR STRUCT. NO. 056-319 DRILLED BY TSC L-79.848

COUNTY McHenry LOCATION North Abutment (Proposed Bridge) S. 22SE/22SW, TWP. 44N, RNG. 6E

Boring No.	Station	Offset	Surface Elev.	DEPTH	BLOW	Qu	W	Surface Water Elev.	DEPTH	BLOW	Qu	W
SB-2	88+77	21.00ft LT	832.60 ft	H	S	tsf	%		H	S	tsf	%
FILL - Black Black sandy TOPSOIL, very moist A-7-6				831.10	1		31.4	Medium dense to dense gray SAND, trace gravel, saturated A-1-b				
FILL - Brown SANDY LOAM, trace Cinders, v. moist A-2-4				829.60	3		12.5					
FILL - Gray SANDY LOAM, some gravel, wet to saturated A-2-4				827.10	2		17.2					
Loose gray SAND and GRAVEL, saturated A-1-b				824.60	3							
Loose gray SANDY LOAM, trace gravel, wet to saturated A-2-4				822.10	4		21.5					
Medium dense gray SILTY LOAM, wet A-4				819.60	6		22.1					
Medium dense gray SANDY LOAM, wet to saturated A-2-4				814.60	5		27.3					
Medium dense gray SILT, wet A-4				812.10	6		25.5					
Medium dense gray fine SAND, saturated A-1-b				807.60	4		25.0					

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

ILDOT BORING 79848-IDOT.GPJ IDOT.GDT 8/28/13

Testing Service Corporation

STRUCTURE BORING LOG

Page 2 of 2

Date Started 4/21/11

Date Completed 4/21/11

STRUCTURE NO. 056-319

ROUTE 0033

SECTION 10-00378-00-BR

COUNTY McHenry

Boring No.	Station	Offset	Elevation	DEPTH	BLOW	Qu	W
SB-2	88+77	21.00ft LT	782.60 ft	H	S	tsf	%
Medium dense to dense gray SAND, trace gravel, saturated A-1-b				762.60	5		
					9		
					12		
					5		
					9		
					9		
					11		
					13		
					10		
					13		
					7		
					12		
					17		
					8		
					14		
					19		
End of Boring at 70.0'							

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations, Depths, Offset, and Elevations are in Feet

ILDOT BORING 79848-IDOT.GPJ IDOT.GDT 8/28/13

(Sheet 1 of 2)



USER NAME = #USER#	DESIGNED - MCC	REVISED -
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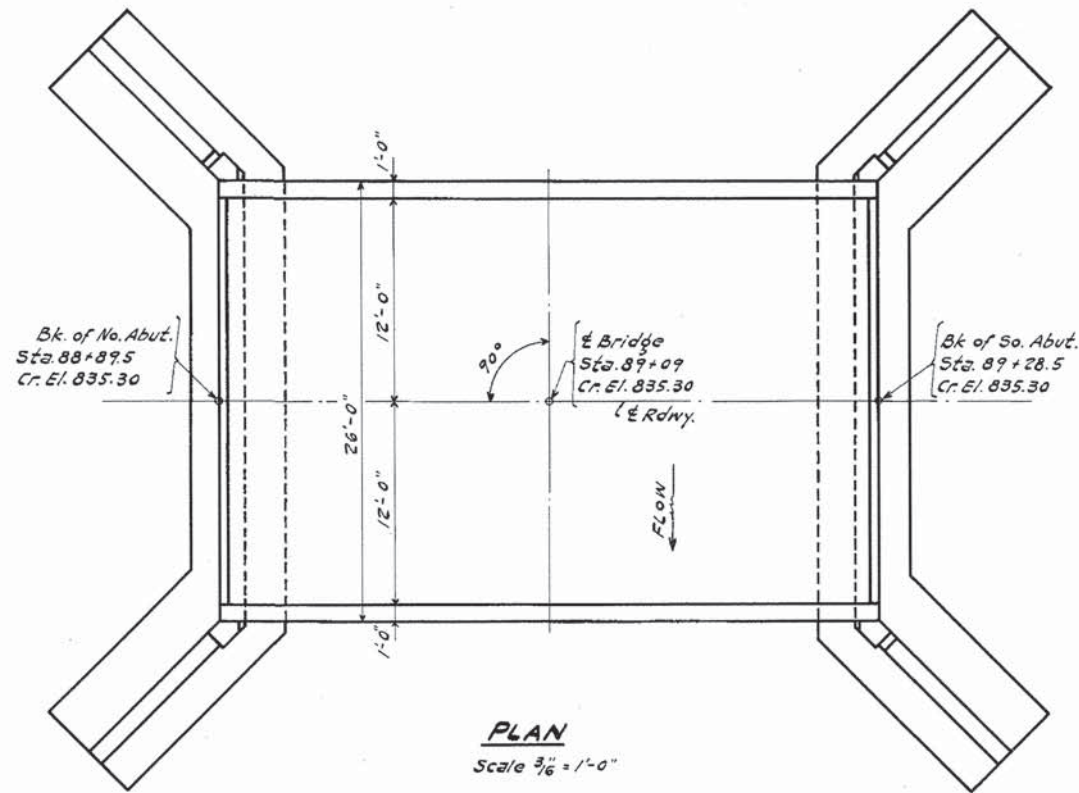
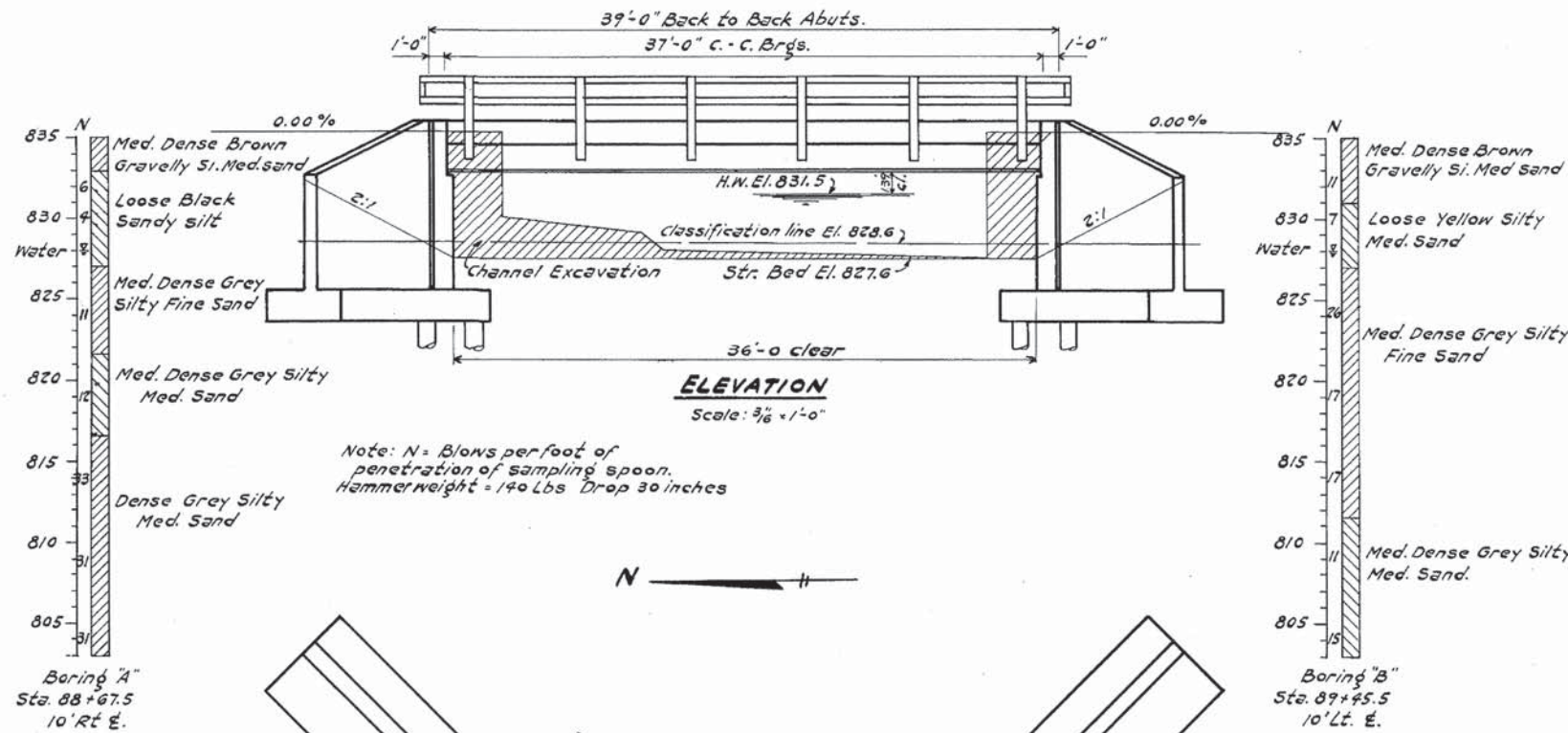
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
STRUCTURE NO. 056-3195

SHEET NO. 16 OF 17 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	MCHENRY	91	62
CONTRACT NO. 61B25				
FED. ROAD DIST. NO.		FED. AID PROJECT		

B.M. Top of Concrete Bridge seat N.E. Corner Elev. 837.18
Existing Structure: 1 - Steel Truss @ 32'-3"; 15' Rdwy. Concrete Abuts.
Contractor shall remove before constructing new bridge.
Trusses, joists & beams shall be salvaged and become
the property of M^cHenry Co. Highway Dept.



WATERWAY INFORMATION

Drainage Area	6230 Acres
Character	level, sand, wooded & cultivated
Present Bridge	100 Sq. Ft.
Proposed Bridge	140 Sq. Ft.

STATION 89+09
BUILT 195
F.A.S. RT. 33 SECTION 19-B-1
PROJ. S 380(1)
LOADING H-15

NAME PLATE
See Std. 2113

STRESSES

fs. 18,000 p.s.i. Struct.
fs. 20,000 p.s.i. Reinf.
fc. 1,400 p.s.i. Super.
fc. 800 p.s.i. Sub.
n 10
H-15-44 Loading.

GENERAL NOTES

Class X concrete shall be used thru-out.
Concrete floor slab shall be finished in accordance with Art. 51.18 (a) of the Standard Specifications and shall be poured in one continuous operation.
All connections shall be riveted except as noted. Rivets shall be $\frac{3}{4}"$, holes $\frac{13}{16}"$ except as noted.
All bearing plates, lead plates, & anchor bolts shall be furnished, painted & set in accordance with Art. 51.14 of the Standard Spec's. and are included for payment as Structural Steel Est. wt. 470 lbs. structural steel shall receive one shop coat of red lead paint after inspection and two field coats of aluminum paint. All paint to be furnished and applied by the Contractor.
Anchor bolts shall be set before riveting diaphragms @ Abutments. The Contractor shall drive 1 test pile in a permanent location, as directed by the Engineer before ordering the remainder of piles.
The railing shall be readjusted to true alignment after the floor slab and curb have been poured.
Boring data are shown only as a guide to bidders in estimating soil conditions which may be encountered in the work.
For backfilling at the Abuts. see Art. 50.10 of the Std. Spec's.
Inspection of Structural Steel by the Illinois Divisions of Highways before painting.
Waterproof back of Curtain Walls, Abutments and Wings to top of footing in accordance with Article 51.20 of the Standard Specifications.

TOTAL BILL OF MATERIAL

ITEM	SUPER	SUB	TOTAL
Class X Concrete	Cu. Yds. 26.2	72.9	99.1
Structural Steel	Lbs. 25360		25360
Reinforcement Bars	Lbs. 4560	3370	7930
Untreated Timber Piles (15' lg.)	Lin. Ft.	705	705
Class A Excavation for Struct's.	Cu. Yds.		246
Class B Excavation for Struct's.	Cu. Yds.		196
Channel Excavation*	Cu. Yds.		119
Name Plate	Each		1
Test Piles	Each	1	1
Removal of Existing Structure	Each		1

* Contractor to excavate channel 36' wide @ El. 827.6 with 2:1 side slopes within limits of R.O.W.

**GENERAL PLAN & ELEVATION
TORRANCE BRIDGE
PROJ. S 380 (1)
F.A.S. RT. 33 (S.A. RT. 14) SECTION 19-B-1
M^cHENRY COUNTY
STATION 89+09**

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WILLS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174

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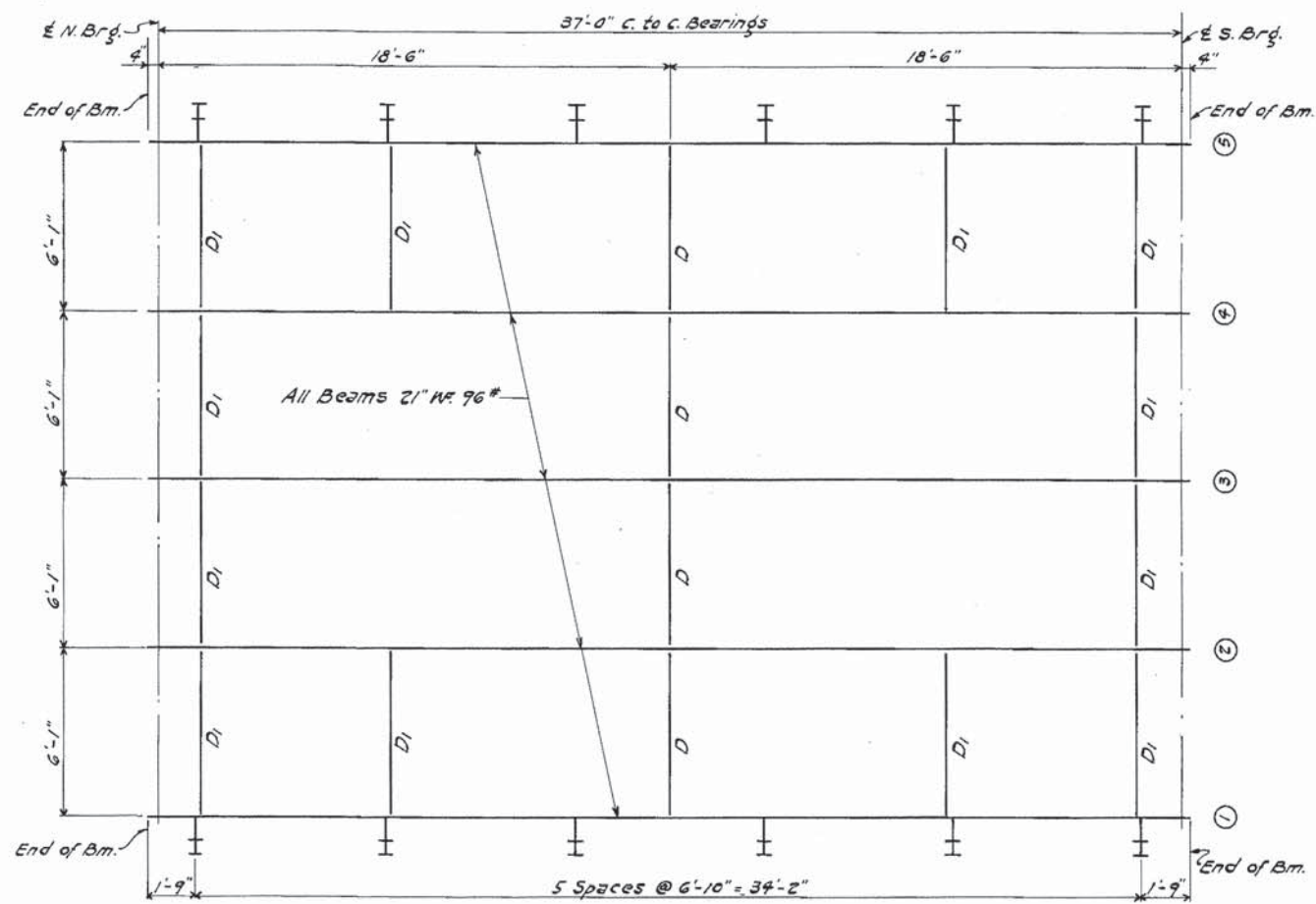
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING STRUCTURAL PLANS
FOR REFERENCE ONLY**

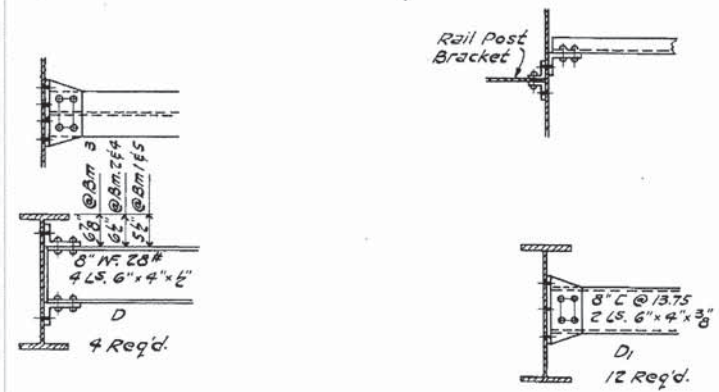
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 61B25				
[ILLINOIS] FED. AID PROJECT				

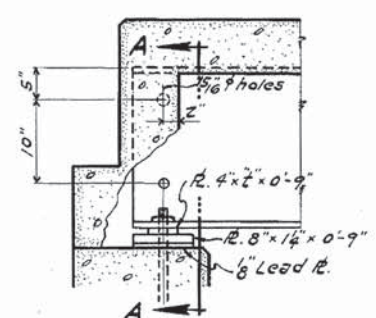
ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
33	19-B-1	McHenry	7	4



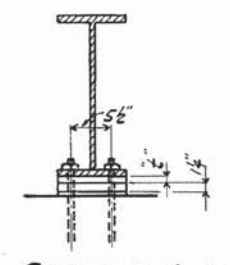
PLAN OF STRUCTURAL STEEL



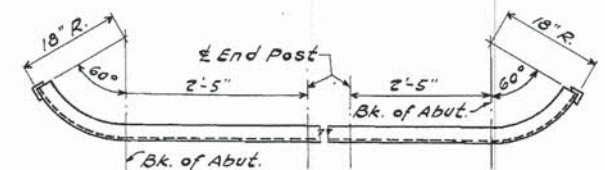
DIAPHRAGM DETAILS



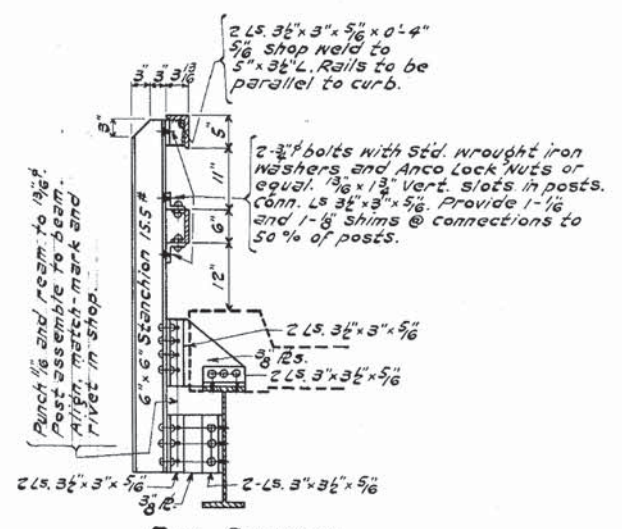
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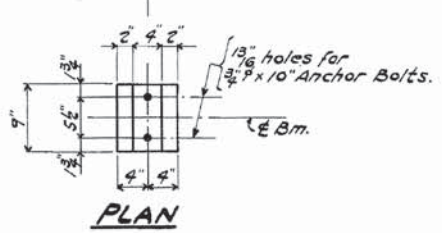
SECTION A-A



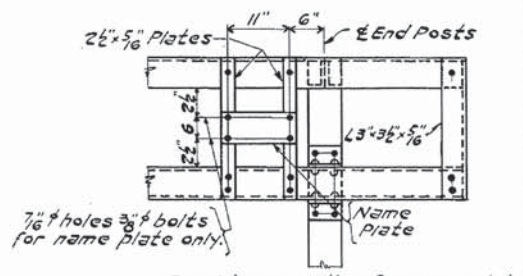
RAIL BEND



RAIL DETAILS



PLAN



Provide connection for name plate @ N.W. corner only.

NAME PLATE DETAILS

TABLE OF DIMENSIONS

BEAM No.	1	2	3	4	5
No. Abut.	3/4	3/4	1/8	3/4	3/4
So. Abut.	3/4	3/4	1/8	3/4	3/4

STRUCTURAL STEEL
TORRANCE BRIDGE
PROJ. S 380(1)
F.A.S. RT. 33 (S.A. RT. 14) SECTION 19-B-1
MCHENRY COUNTY
STATION 89+09

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WILLIS BURKE KELSEY ASSOCIATES LTD.
116 West Main Street, Suite 201
St. Charles, Illinois 60174

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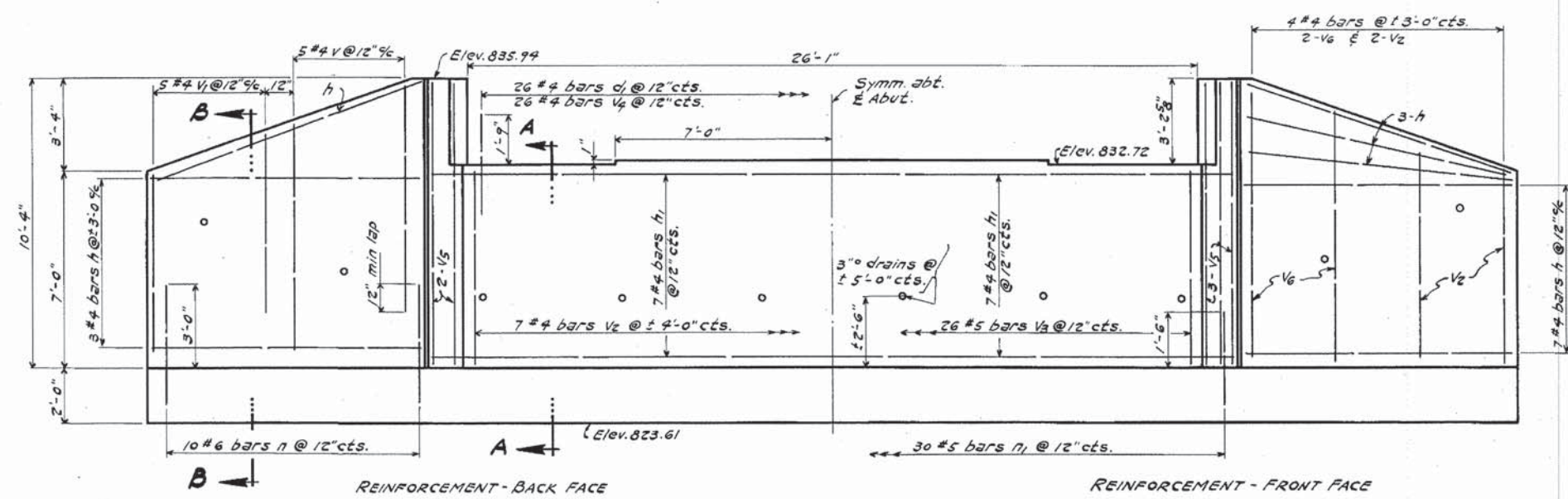
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURAL PLANS
FOR REFERENCE ONLY

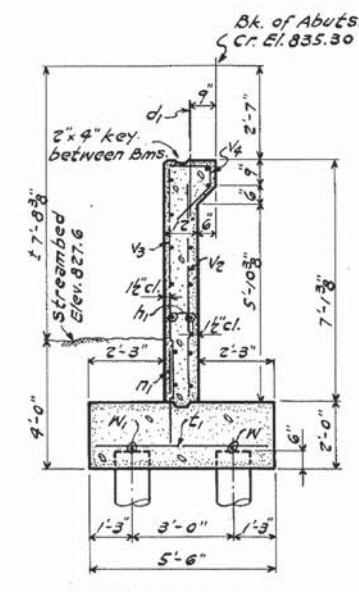
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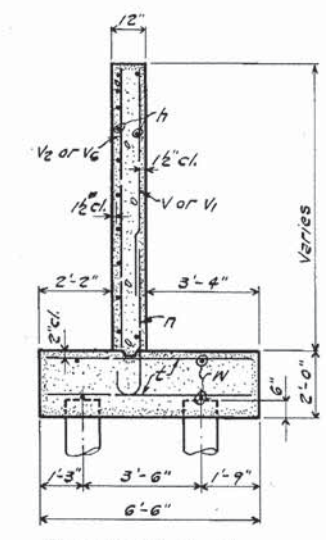
CONTRACT NO. 61B25
ILLINOIS FED. AID PROJECT



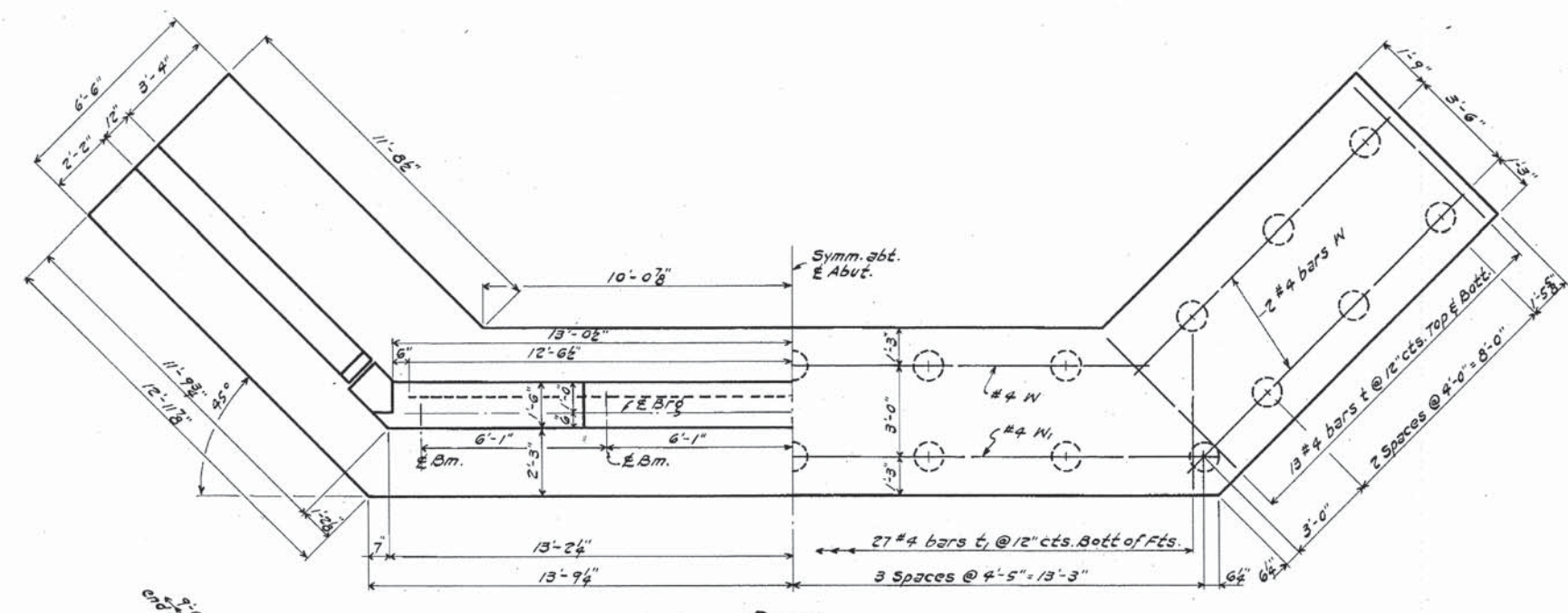
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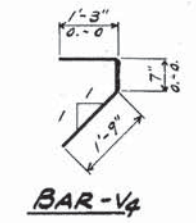
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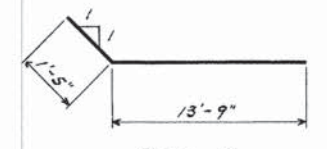
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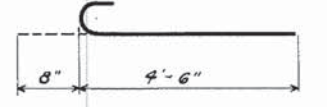
PLAN



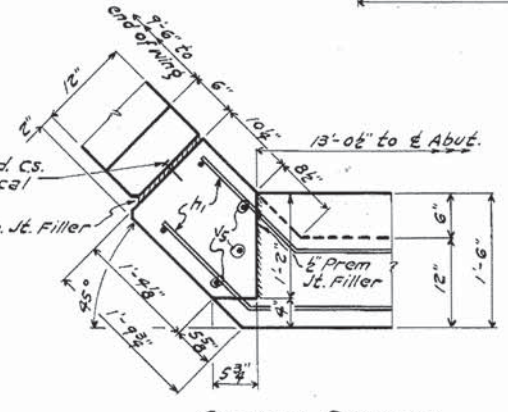
BAR-V4



BAR-h1



BAR-n



CORNER DETAILS

UNTREATED TIMBER PILES
 Min. Cap. 12 Tons
 Est. Length 15'-0"
 No. Req'd 2 Abuts. 48

BILL OF MATERIAL-TWO ABUTS.

BAR	NO	SIZE	LENGTH	SHAPE
V	20	#4	8'-3"	—
V1	20	#4	6'-6"	—
V2	22	#4	6'-11"	—
V3	52	#5	6'-11"	—
V4	52	#4	3'-7"	7
V5	20	#4	10'-2"	—
V6	8	#4	9'-0"	—
h	56	#4	9'-9"	—
h1	56	#4	15'-2"	—
d1	52	#4	3'-6"	—
n	40	#6	5'-2"	—
n1	60	#5	3'-0"	—
t	104	#4	6'-3"	—
t1	54	#4	5'-3"	—
W	20	#4	12'-6"	—
W1	2	#4	27'-0"	—
Class X Concrete				Cu. Yds 72.9
Reinforcement Bars				Lbs 3370
Untreated Timber Piles (15) Lin. Ft.				705
Test Piles				Each 1

**ABUTMENTS
 TORRANCE BRIDGE
 PROJ. 5380(1)
 F.A.S. RT.33(S.A. RT.14) SEC.19-B-1
 M'HENRY COUNTY
 STATION 89+09**

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WILLS BURKE KELSEY ASSOCIATES LTD.
 116 West Main Street, Suite 201
 St. Charles, Illinois 60174

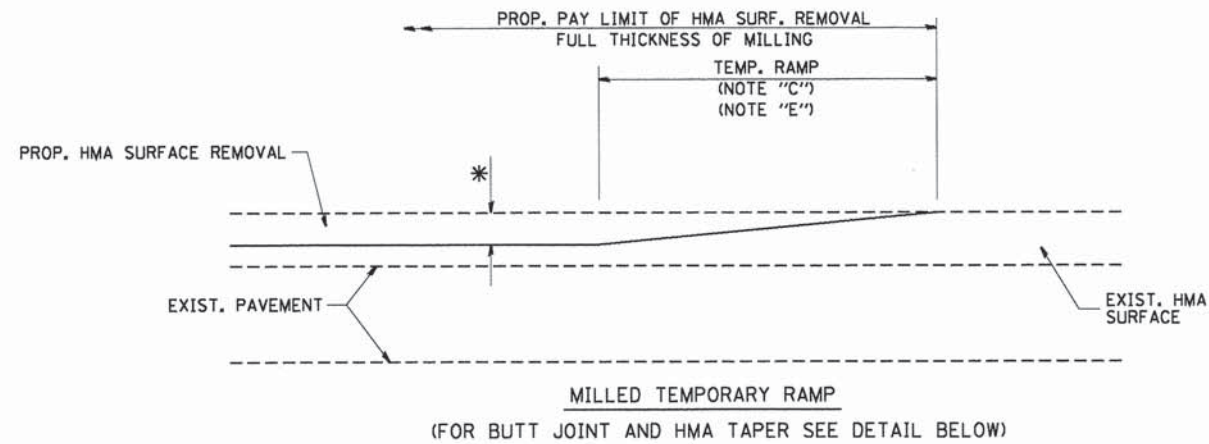
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

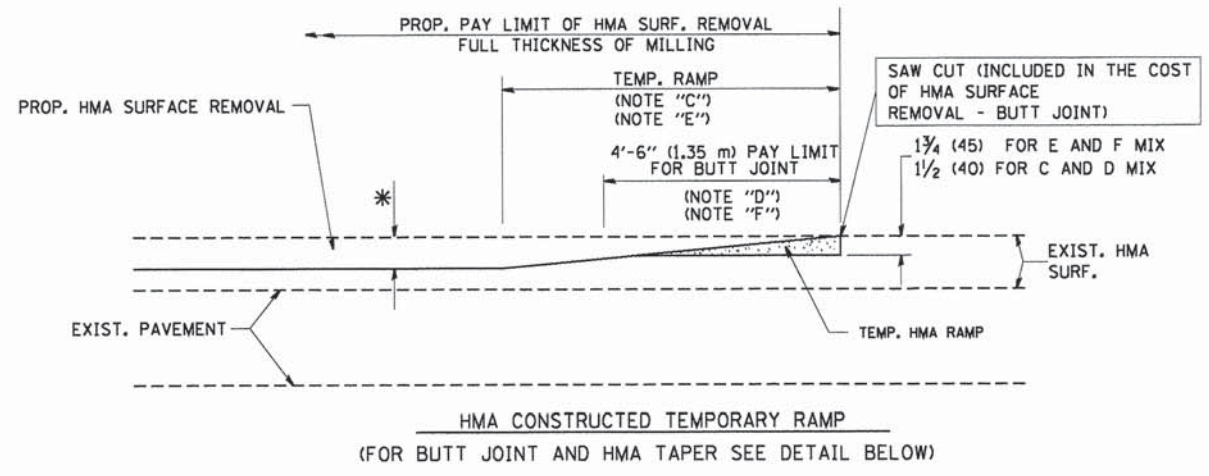
**EXISTING STRUCTURAL PLANS
 FOR REFERENCE ONLY**

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CONTRACT NO.61B25				
ILLINOIS FED. AID PROJECT				

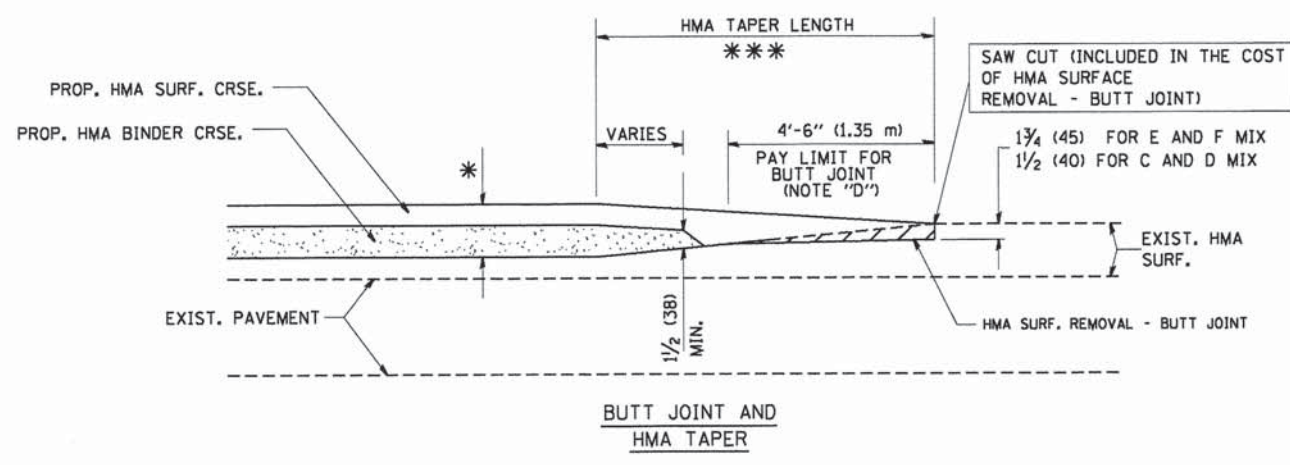
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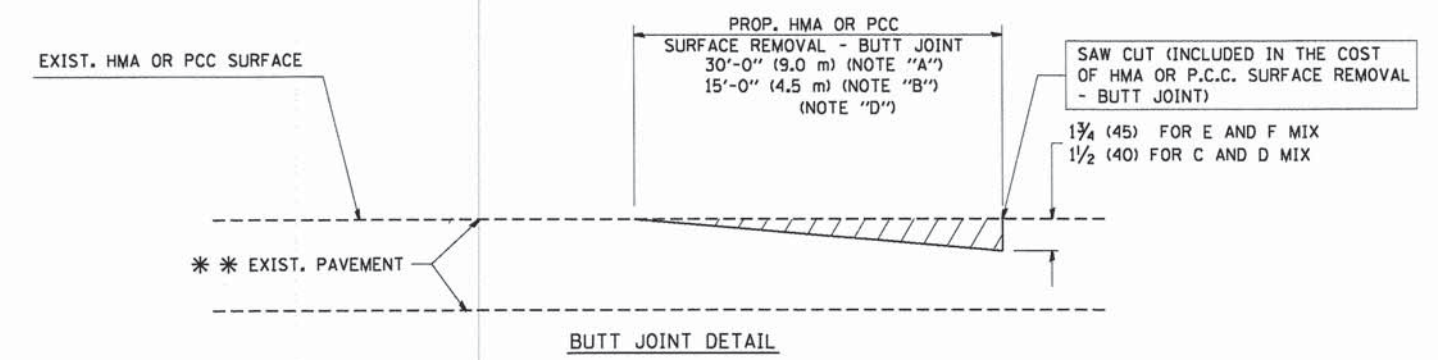
OPTION 1



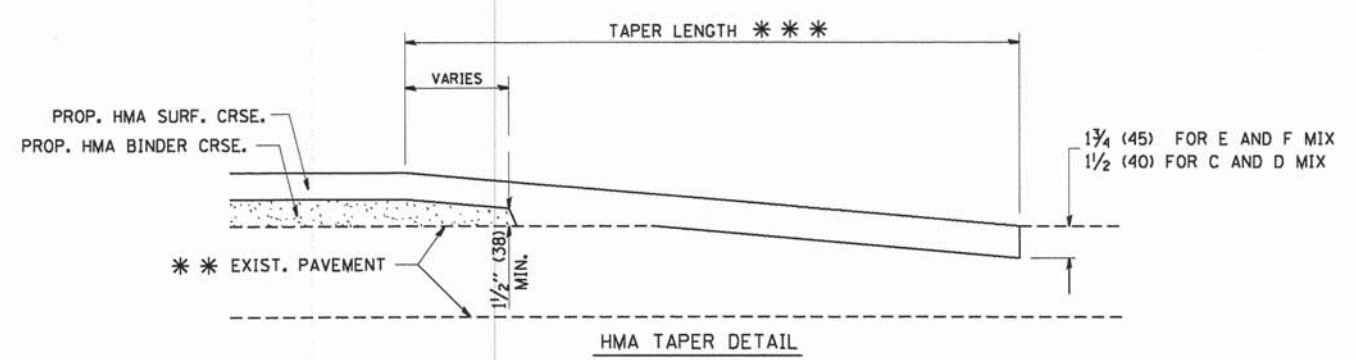
OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

NOTES

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

BASIS OF PAYMENT:

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

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

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		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-01

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	MCHENRY	91	68
BD400-05 BD32		CONTRACT NO. 61B25		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ROUTE MARKERS

FOR U.S. ROUTES
M1-40-2424

FOR ILLINOIS ROUTES
M1-50-2424

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

ARROWS SIGNS

M5-1L-2115

M5-1R-2115

M6-1-2115

M6-1-2115

M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

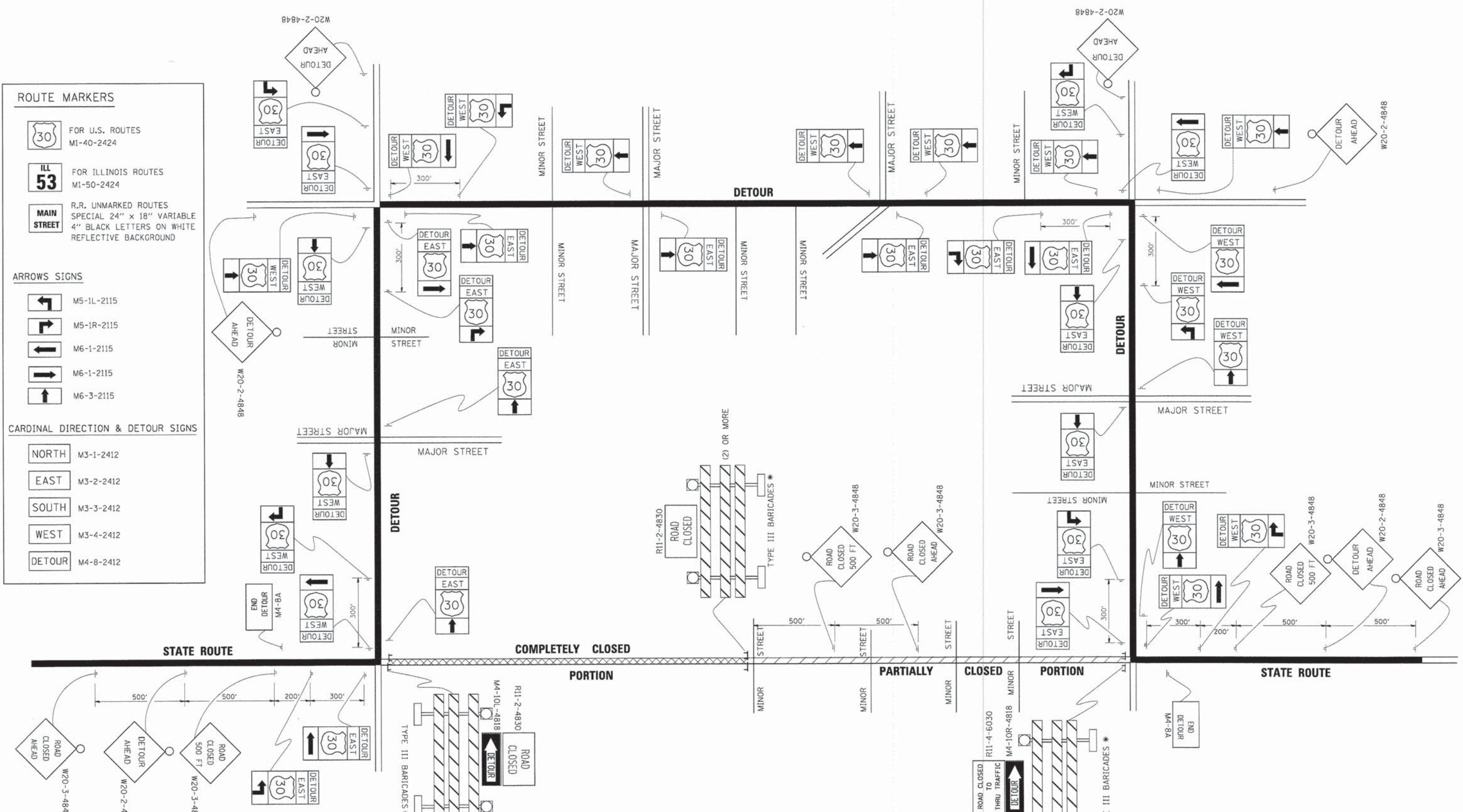
NORTH M3-1-2412

EAST M3-2-2412

SOUTH M3-3-2412

WEST M3-4-2412

DETOUR M4-8-2412



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

FILE NAME = M:\Projects\2012\120184 - Franklinville\11\CG000\Civil\Signs\svt01.D1-T21.dgn

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PLOT SCALE = 49,9999' / IN.		CHECKED -	REVISED -
PLOT DATE = 9/14/2009		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETOUR SIGNING FOR CLOSING STATE HIGHWAYS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	0033	10-00378-00-BR	MCHENRY	91	72
STA.	TO STA.	TC-21				
		CONTRACT NO. 61B25				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT						



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE
 PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN)
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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FILE NAME =	USER NAME = gegljanobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

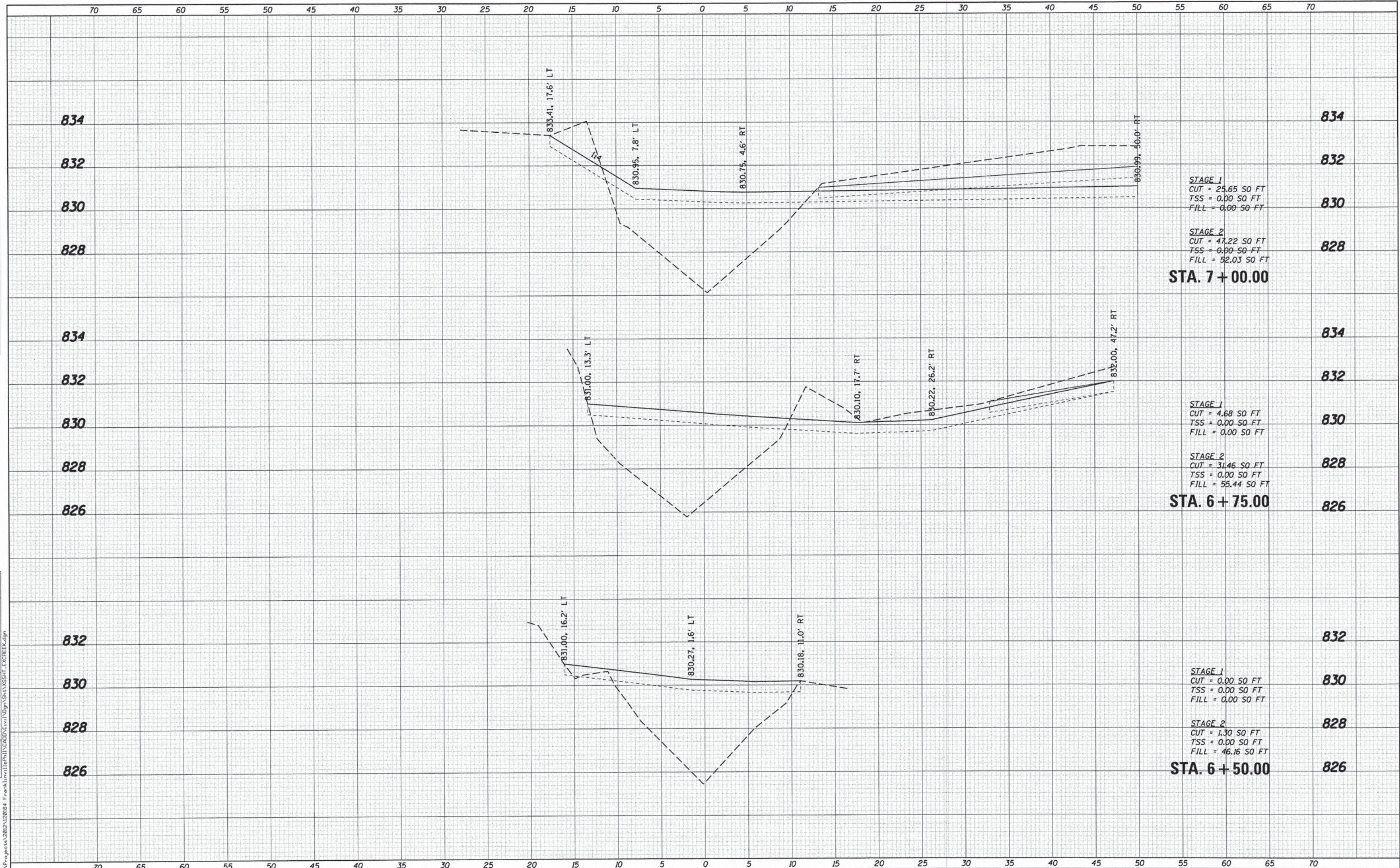
DRIVEWAY ENTRANCE SIGNING

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	MCHENRY	91	73
TC-26				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



STAGE 1
 CUT = 25.65 SO FT
 TSS = 0.00 SO FT
 FILL = 0.00 SO FT

STAGE 2
 CUT = 47.22 SO FT
 TSS = 0.00 SO FT
 FILL = 52.03 SO FT

STA. 7 + 00.00

STAGE 1
 CUT = 4.68 SO FT
 TSS = 0.00 SO FT
 FILL = 0.00 SO FT

STAGE 2
 CUT = 31.46 SO FT
 TSS = 0.00 SO FT
 FILL = 55.44 SO FT

STA. 6 + 75.00

STAGE 1
 CUT = 0.00 SO FT
 TSS = 0.00 SO FT
 FILL = 0.00 SO FT

STAGE 2
 CUT = 1.30 SO FT
 TSS = 0.00 SO FT
 FILL = 46.16 SO FT

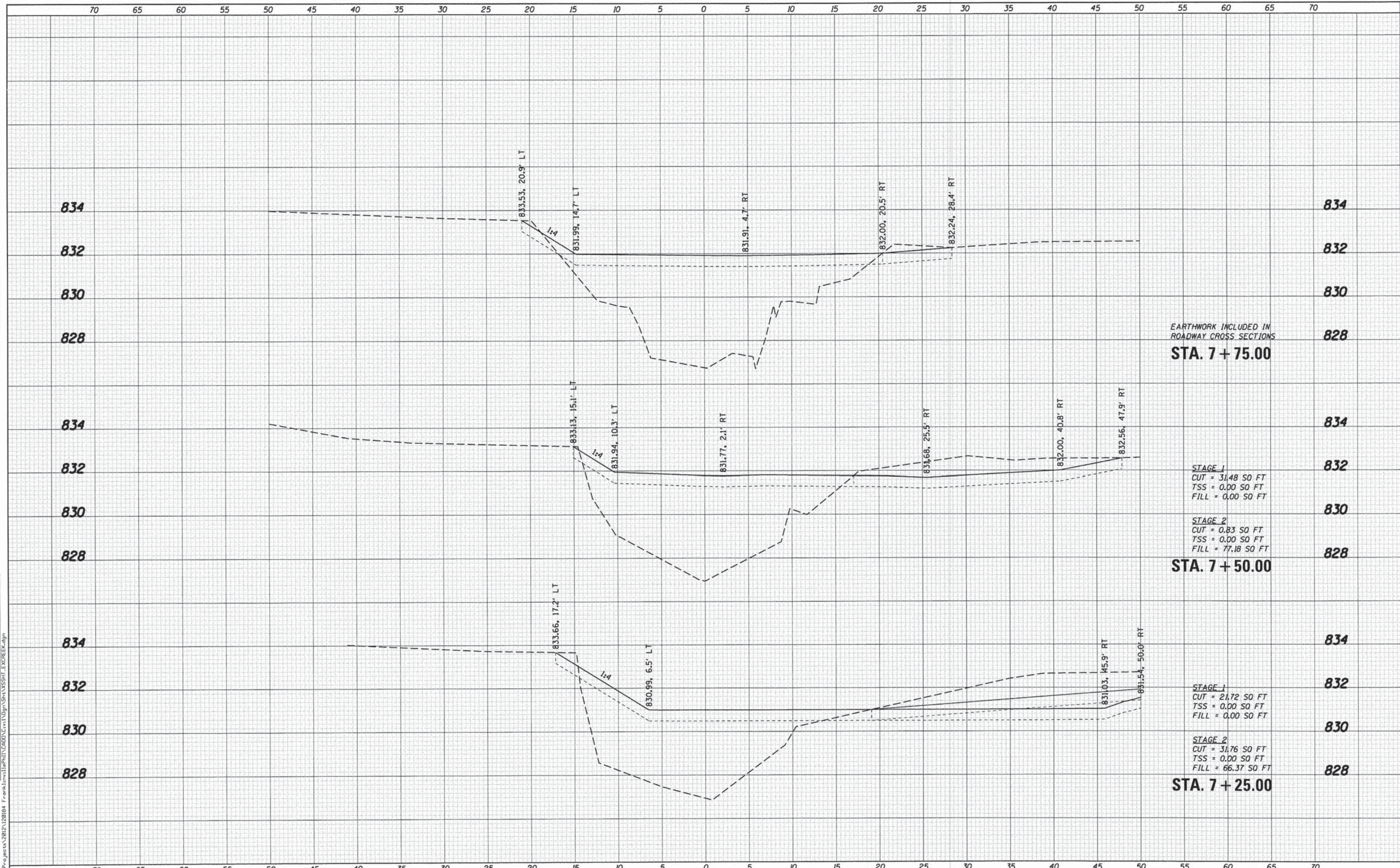
STA. 6 + 50.00

USER NAME = nporris	DESIGNED - MNB	REVISED -
	DRAWN - NDP	REVISED -
PLOT SCALE = 1/5	CHECKED - AEU	REVISED -
PLOT DATE = 1/30/2015	DATE - 02/02/2015	REVISED -

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	MCHENRY	91	74
				CONTRACT NO. 61B25
ILLINOIS FED. AID PROJECT				

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

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



EARTHWORK INCLUDED IN ROADWAY CROSS SECTIONS
STA. 7 + 75.00

STAGE 1
CUT = 31.48 SO FT
TSS = 0.00 SO FT
FILL = 0.00 SO FT

STAGE 2
CUT = 0.83 SO FT
TSS = 0.00 SO FT
FILL = 77.18 SO FT

STA. 7 + 50.00

STAGE 1
CUT = 21.72 SO FT
TSS = 0.00 SO FT
FILL = 0.00 SO FT

STAGE 2
CUT = 31.76 SO FT
TSS = 0.00 SO FT
FILL = 66.37 SO FT

STA. 7 + 25.00

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USER NAME = nparris	DESIGNED - MNB	REVISED -
	DRAWN - NDP	REVISED -
PLOT SCALE = 1:5	CHECKED - AEU	REVISED -
PLOT DATE = 1/30/2015	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

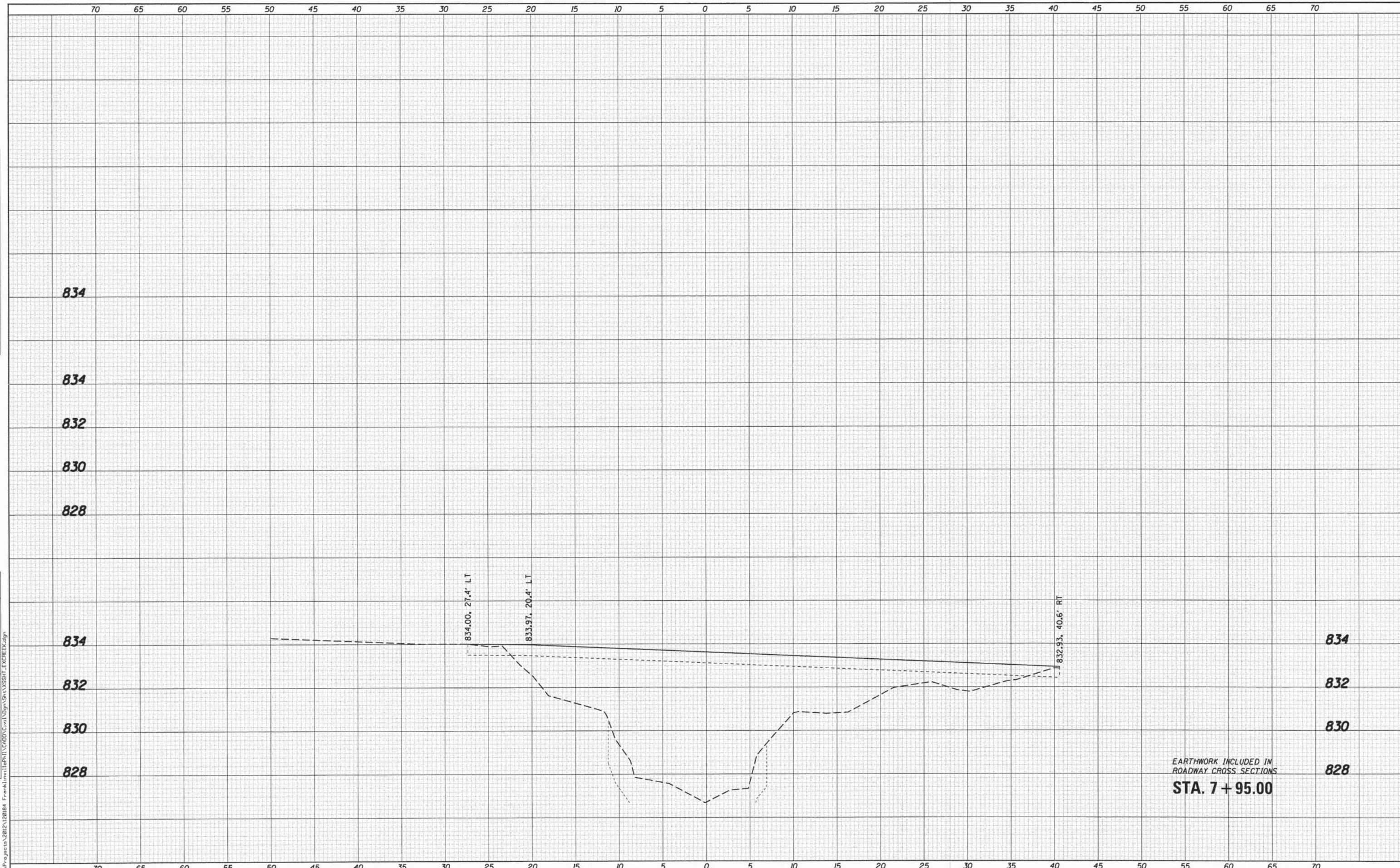
**CROSS SECTIONS
EXISTING CHANNEL**

SCALE: H:5 V:2 SHEET NO. 2 OF 4 SHEETS STA. 7+25.00 TO STA. 7+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	MCHENRY	91	75
CONTRACT NO. 61B25			ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY NOTE BOOK NO.	
SCHEMATIC TEMPLATE AREAS CHECKED	

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



EARTHWORK INCLUDED IN
ROADWAY CROSS SECTIONS
STA. 7 + 95.00

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USER NAME = nperris	DESIGNED - MNB	REVISED -
	DRAWN - NDP	REVISED -
	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
EXISTING CHANNEL**

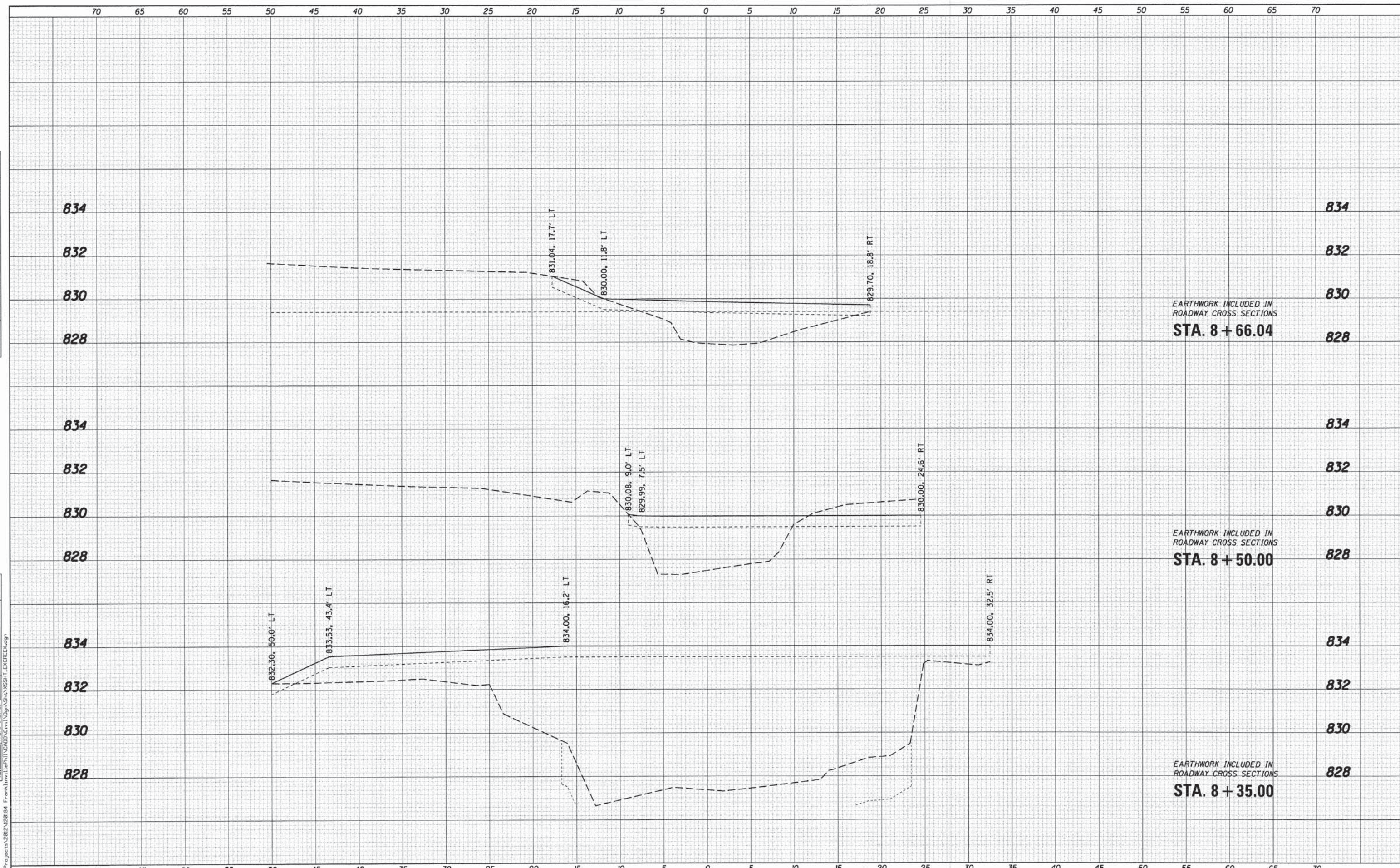
SCALE: H:5 V:2 SHEET NO. 3 OF 4 SHEETS STA. 7+95.00 TO STA. 8+25.00

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 76
CONTRACT NO. 61B25			ILLINOIS FED. AID PROJECT	

FILE NAME = W:\Projects\2012\1201B4 - Franklin\11ePH1\CADD\Civil\Drawn\Shots\XSSHT_EXPREK.dgn

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

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



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USER NAME = nporris	DESIGNED - MNB	REVISED -
	DRAWN - NDP	REVISED -
PLOT SCALE = 1/5	CHECKED - AEU	REVISED -
PLOT DATE = 1/30/2015	DATE - 02/02/2015	REVISED -

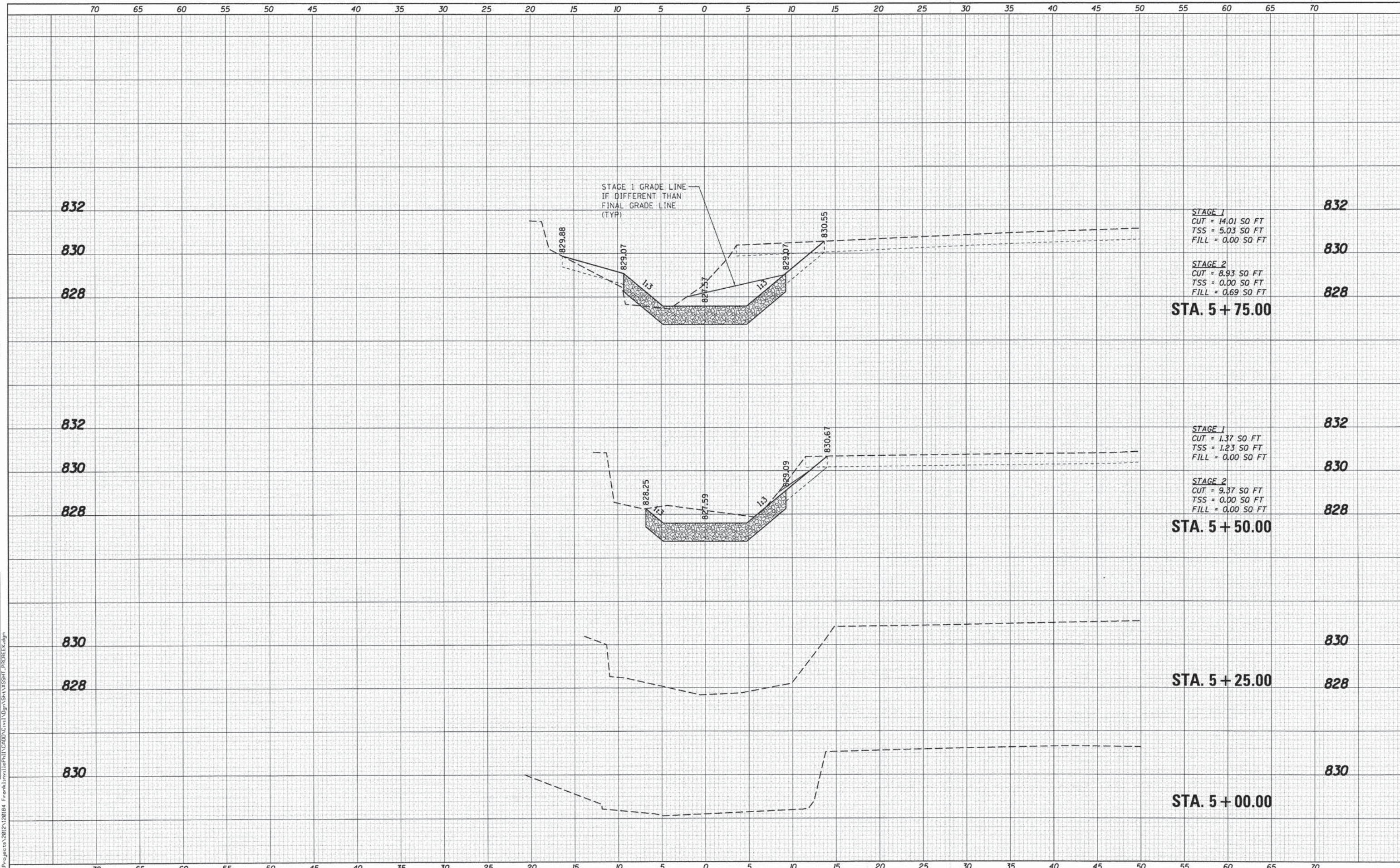
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: H5 V2	SHEET NO. 4 OF 4 SHEETS	STA. 8+35.00 TO STA. 8+66.04
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F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 77
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

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

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



832

830

828

STA. 5 + 75.00

STAGE 1
 CUT = 14.01 SO FT
 TSS = 5.03 SO FT
 FILL = 0.00 SO FT

STAGE 2
 CUT = 8.93 SO FT
 TSS = 0.00 SO FT
 FILL = 0.69 SO FT

832

830

828

STA. 5 + 50.00

STAGE 1
 CUT = 1.37 SO FT
 TSS = 1.23 SO FT
 FILL = 0.00 SO FT

STAGE 2
 CUT = 9.37 SO FT
 TSS = 0.00 SO FT
 FILL = 0.00 SO FT

830

828

830

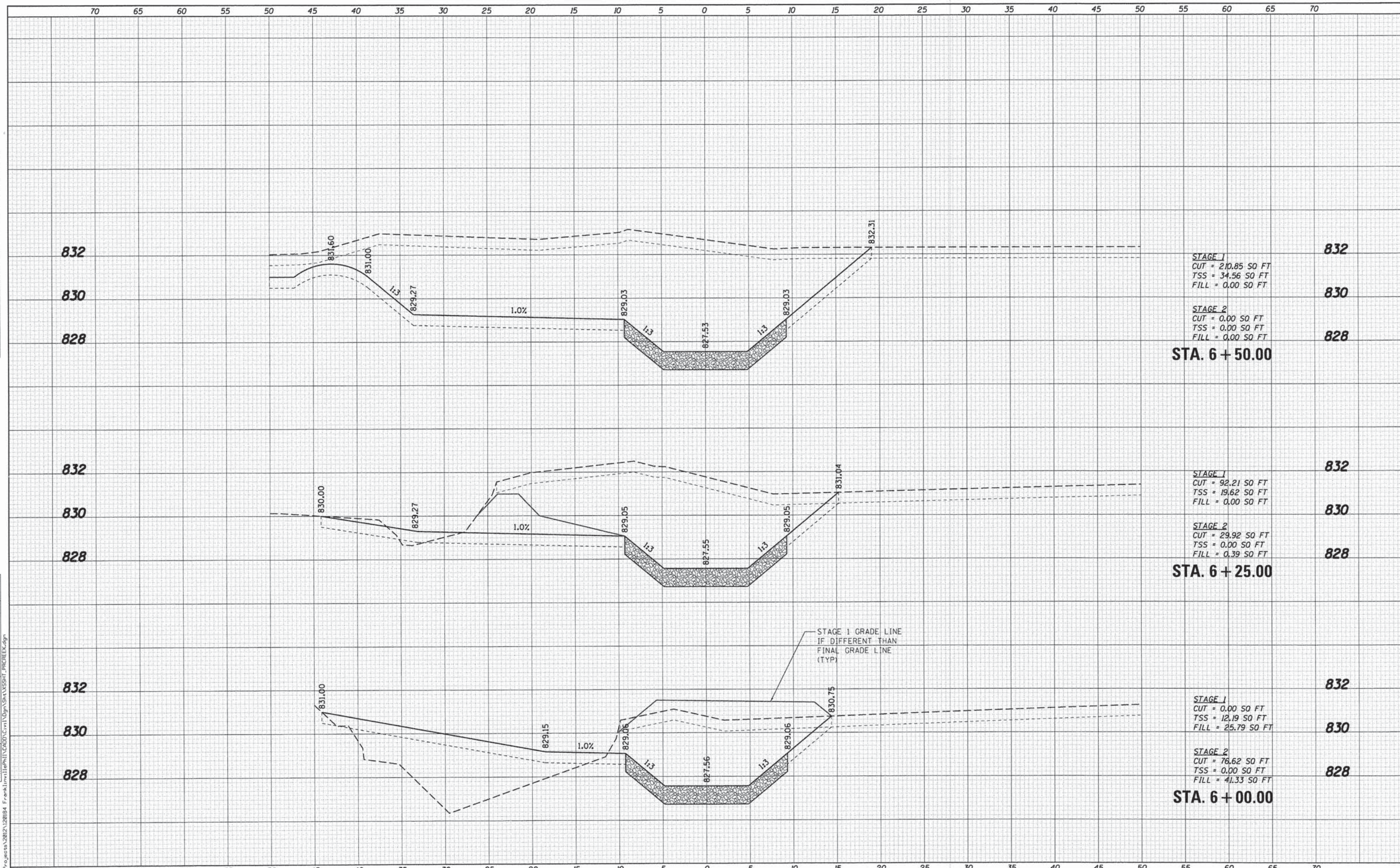
STA. 5 + 25.00

830

STA. 5 + 00.00

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = M:\Projects\2012\120184 - Franklinsville\PHIT\CADD\Civil\Drawings\SSHT_PICREK.dgn

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St. Charles, Illinois 60174

USER NAME = nparris	DESIGNED - MNB	REVISED -
	DRAWN - NDP	REVISED -
PLOT SCALE = 1:5	CHECKED - AEU	REVISED -
PLOT DATE = 1/30/2015	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

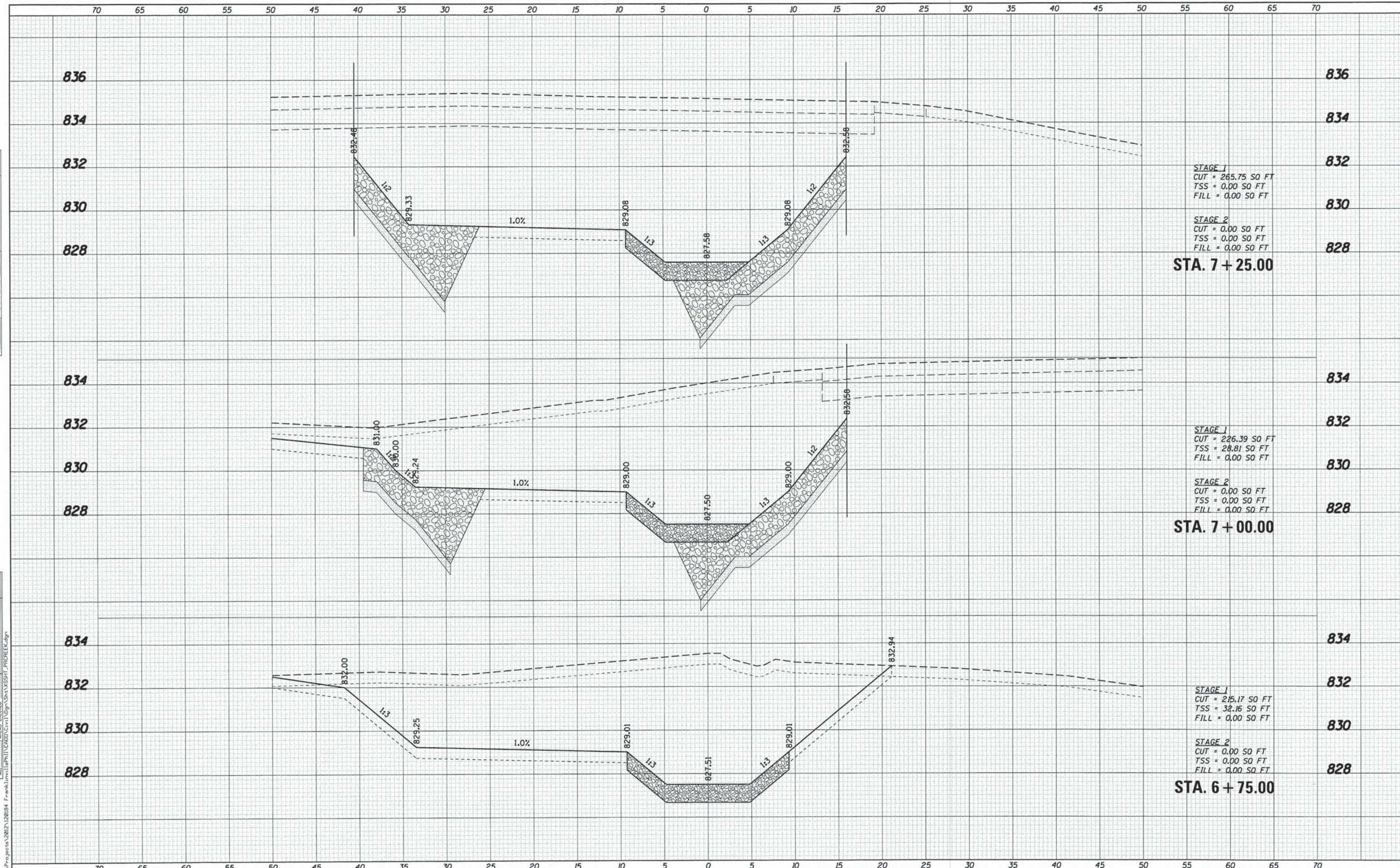
**CROSS SECTIONS
PROPOSED CHANNEL**

SCALE: H:V 2 SHEET NO. 2 OF 5 SHEETS STA. 6+00.00 TO STA. 6+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	MCHENRY	91	79
				CONTRACT NO. 61B25
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
DATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
DATE	
AREAS CHECKED	
NO.	



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USER NAME = nperris	DESIGNED - MNB	REVISED -
	DRAWN - NDP	REVISED -
	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -
PLOT SCALE = 1:5		
PLOT DATE = 1/30/2015		

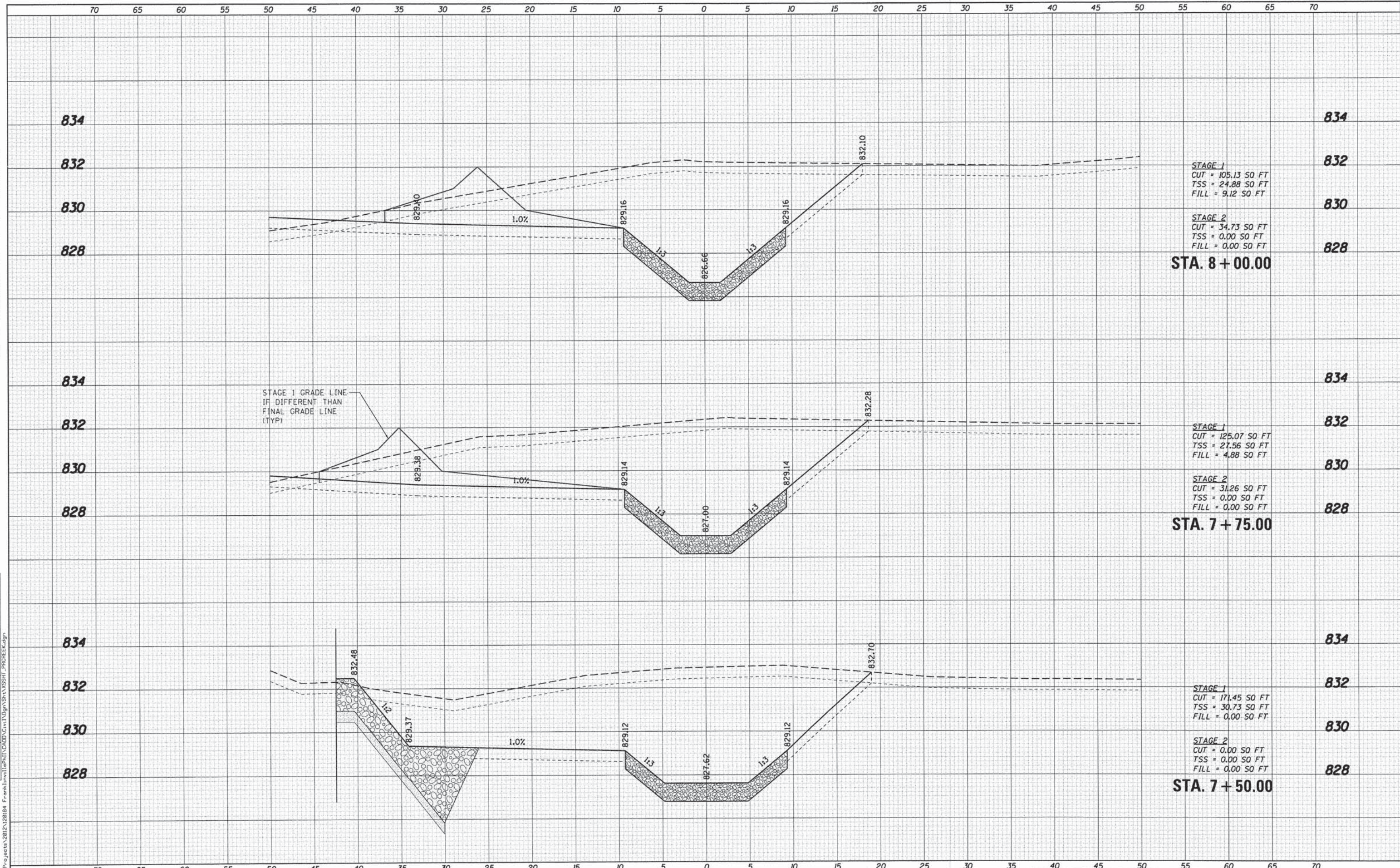
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS PROPOSED CHANNEL	
SCALE: H45 V2	SHEET NO. 3 OF 5 SHEETS
STA. 6+75.00 TO STA. 7+25.00	

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 80
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



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St. Charles, Illinois 60174

USER NAME = nparris	DESIGNED - MNB	REVISED -
	DRAWN - NDP	REVISED -
PLOT SCALE = 1/5	CHECKED - AEU	REVISED -
PLOT DATE = 1/30/2015	DATE - 02/02/2015	REVISED -

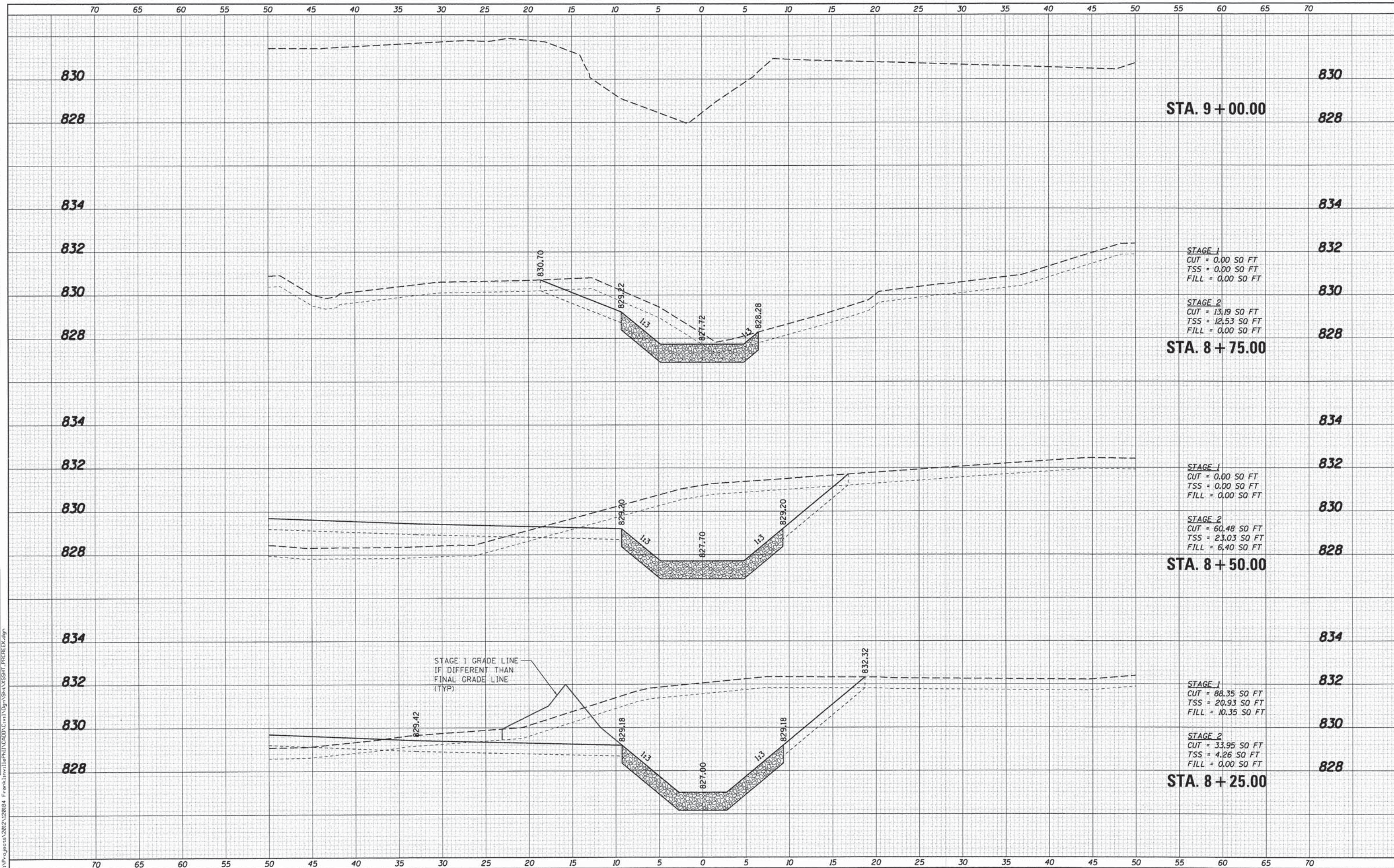
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS PROPOSED CHANNEL	
SCALE: H:5 V:2	SHEET NO. 4 OF 5 SHEETS
STA. 7+50.00 TO STA. 8+00.00	

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 81
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

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

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



STA. 9 + 00.00

STA. 8 + 75.00

STA. 8 + 50.00

STA. 8 + 25.00

STAGE 1
CUT = 0.00 SO FT
TSS = 0.00 SO FT
FILL = 0.00 SO FT

STAGE 2
CUT = 13.19 SO FT
TSS = 12.53 SO FT
FILL = 0.00 SO FT

STAGE 1
CUT = 0.00 SO FT
TSS = 0.00 SO FT
FILL = 0.00 SO FT

STAGE 2
CUT = 60.48 SO FT
TSS = 23.03 SO FT
FILL = 6.40 SO FT

STAGE 1
CUT = 88.35 SO FT
TSS = 20.93 SO FT
FILL = 10.35 SO FT

STAGE 2
CUT = 33.95 SO FT
TSS = 4.26 SO FT
FILL = 0.00 SO FT

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USER NAME = nparris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:15	DRAWN - NDP	REVISED -
PLOT DATE = 1/30/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
PROPOSED CHANNEL**

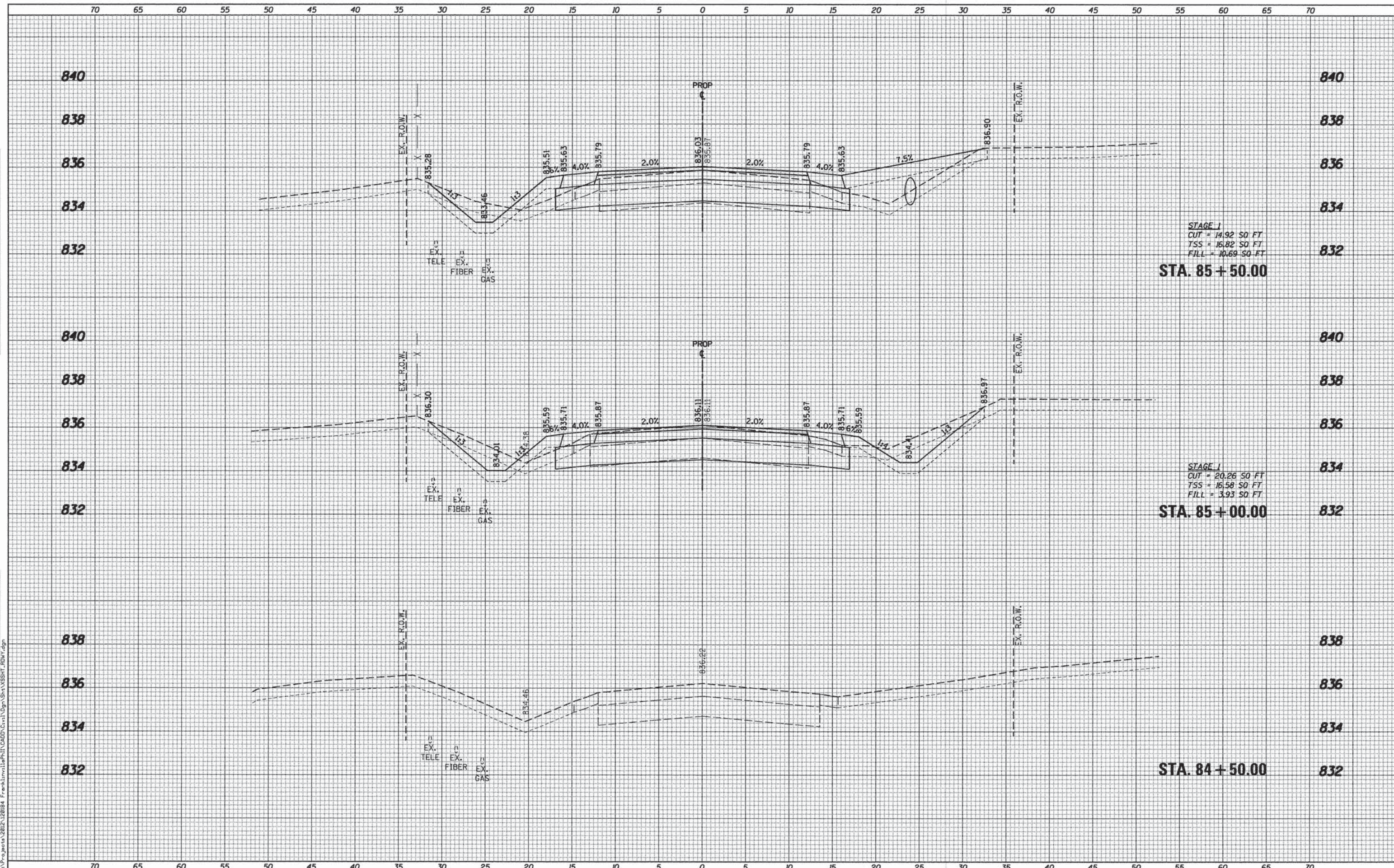
SCALE: H:5 V:2 SHEET NO. 5 OF 5 SHEETS STA. 8+25.00 TO STA. 9+00.00

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 82
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SUPERVISOR	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SUPERVISOR	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

FILE NAME = \\A:\Projects\2012\120184 Franklinville Rd\120184 Franklinville Rd\120184_VSSHT_R01.dgn



STAGE 1
 CUT = 14.92 SQ FT
 TSS = 16.82 SQ FT
 FILL = 10.69 SQ FT
STA. 85 + 50.00

STAGE 1
 CUT = 20.26 SQ FT
 TSS = 16.58 SQ FT
 FILL = 3.93 SQ FT
STA. 85 + 00.00

STA. 84 + 50.00

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USER NAME = mbaldwin	DESIGNED - MNB	REVISED -
PLOT SCALE = 1/5	DRAWN - NDP	REVISED -
PLOT DATE = 2/2/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

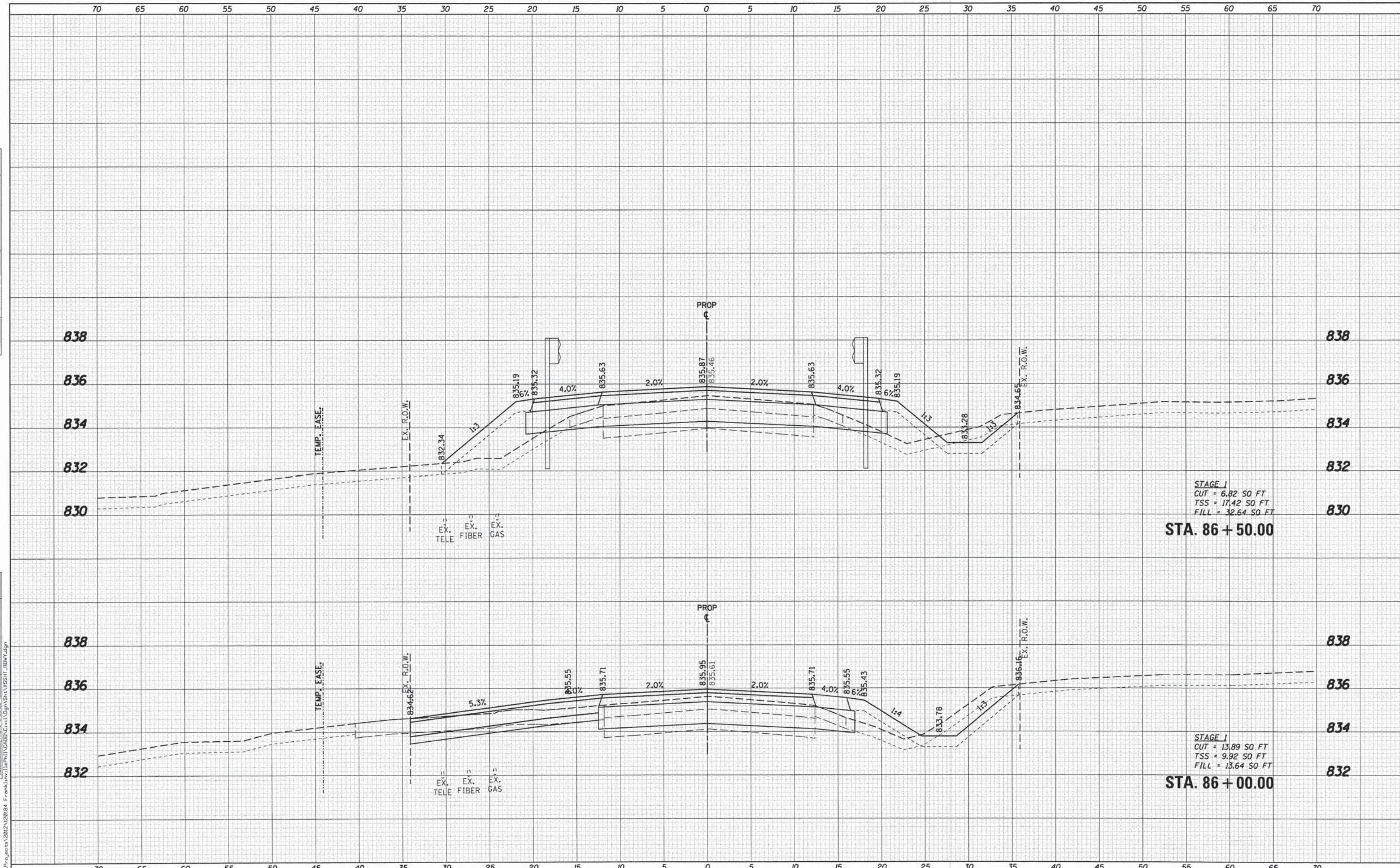
**CROSS SECTIONS
 FRANKLINVILLE RD OVER FRANKLINVILLE CREEK**

SCALE: H=5 V=2 SHEET NO. 1 OF 9 SHEETS STA. 84+50.00 TO STA. 85+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	MCHENRY	91	83
CONTRACT NO. 61B25			ILLINOIS FED. AID PROJECT	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



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USER NAME = nparris	DESIGNED - MNB	REVISED -
	DRAWN - NDP	REVISED -
PLOT SCALE = 1/5	CHECKED - AEU	REVISED -
PLOT DATE = 1/30/2015	DATE - 02/02/2015	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

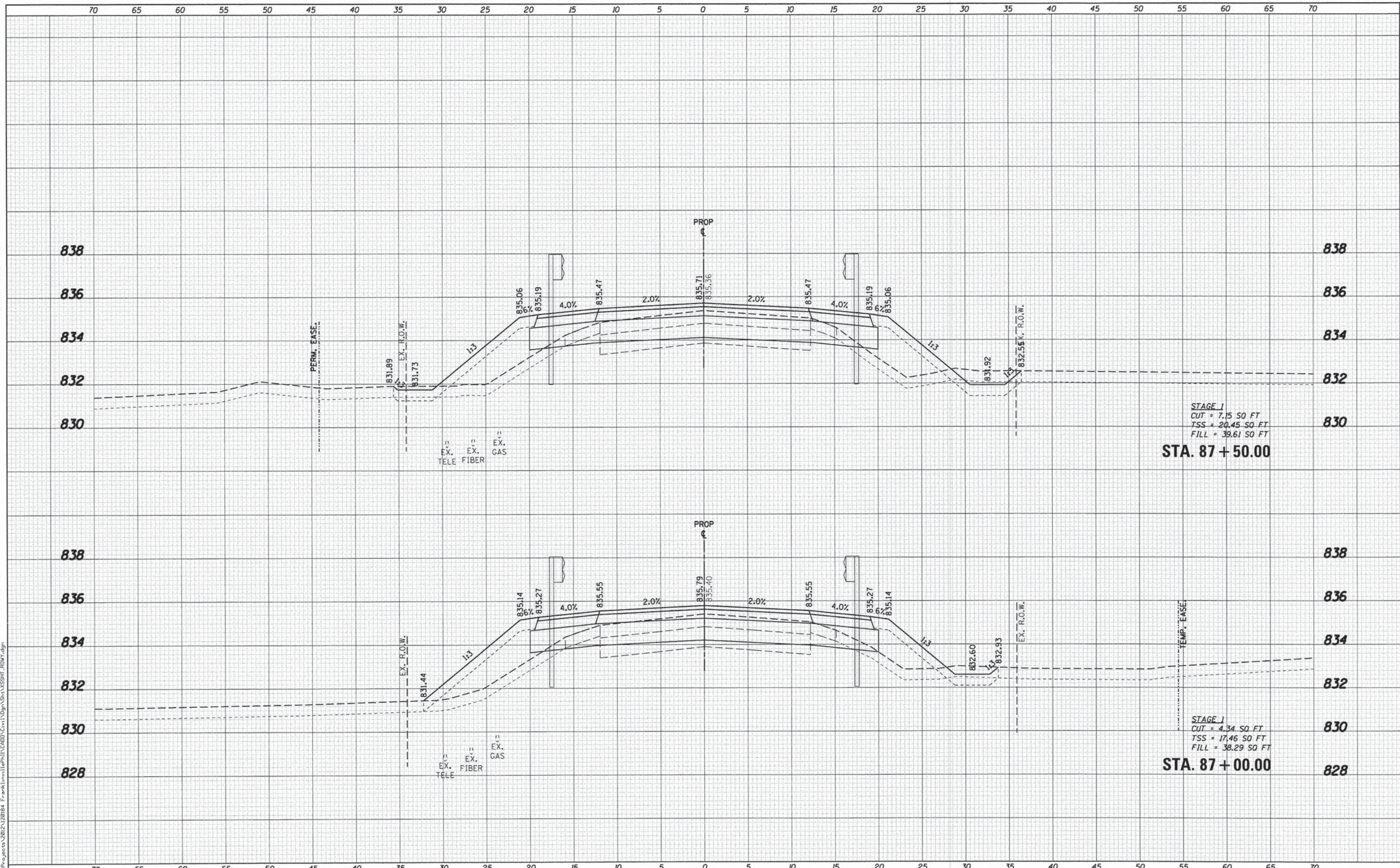
CROSS SECTIONS	
FRANKLINVILLE RD OVER FRANKLINVILLE CREEK	
SCALE: H=5 V=2	SHEET NO. 2 OF 9 SHEETS
STA. 86+00.00	TO STA. 86+50.00

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 84
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

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DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



STAGE 1
 CUT = 7.15 SO FT
 TSS = 20.45 SO FT
 FILL = 39.61 SO FT
STA. 87 + 50.00

STAGE 1
 CUT = 4.34 SO FT
 TSS = 17.46 SO FT
 FILL = 38.29 SO FT
STA. 87 + 00.00



USER NAME = nporris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:5	DRAWN - NDP	REVISED -
PLOT DATE = 1/30/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

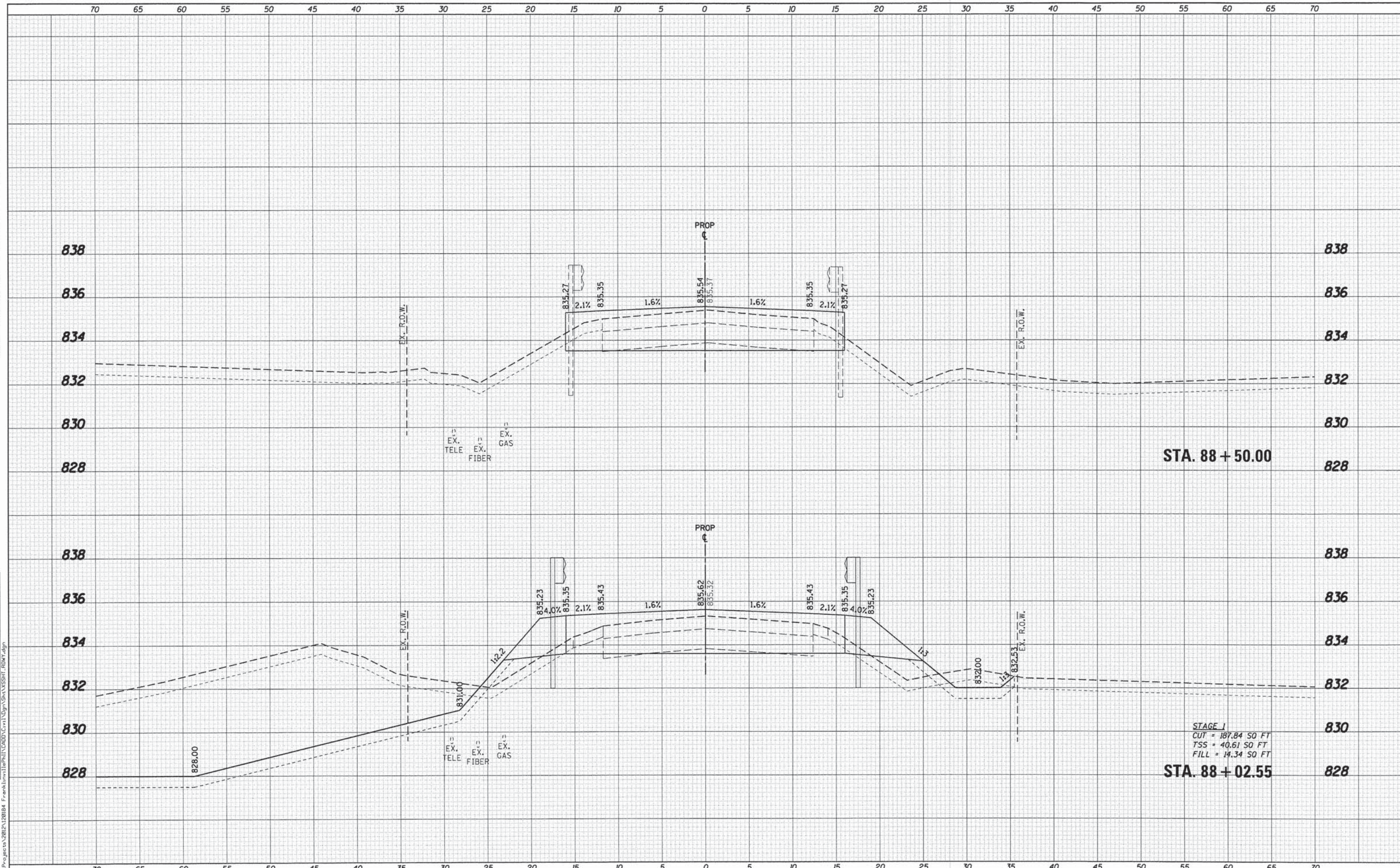
**CROSS SECTIONS
 FRANKLINVILLE RD OVER FRANKLINVILLE CREEK**

SCALE: H:5 V:2 SHEET NO. 3 OF 9 SHEETS STA. 87+00.00 TO STA. 87+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	MCHENRY	91	85
				CONTRACT NO. 61B25
[ILLINOIS] FED. AID PROJECT				

DATE	
BY	
SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	



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USER NAME = nporris	DESIGNED - MNB	REVISED -
PLLOT SCALE = 1:5	DRAWN - NDP	REVISED -
PLLOT DATE = 1/30/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

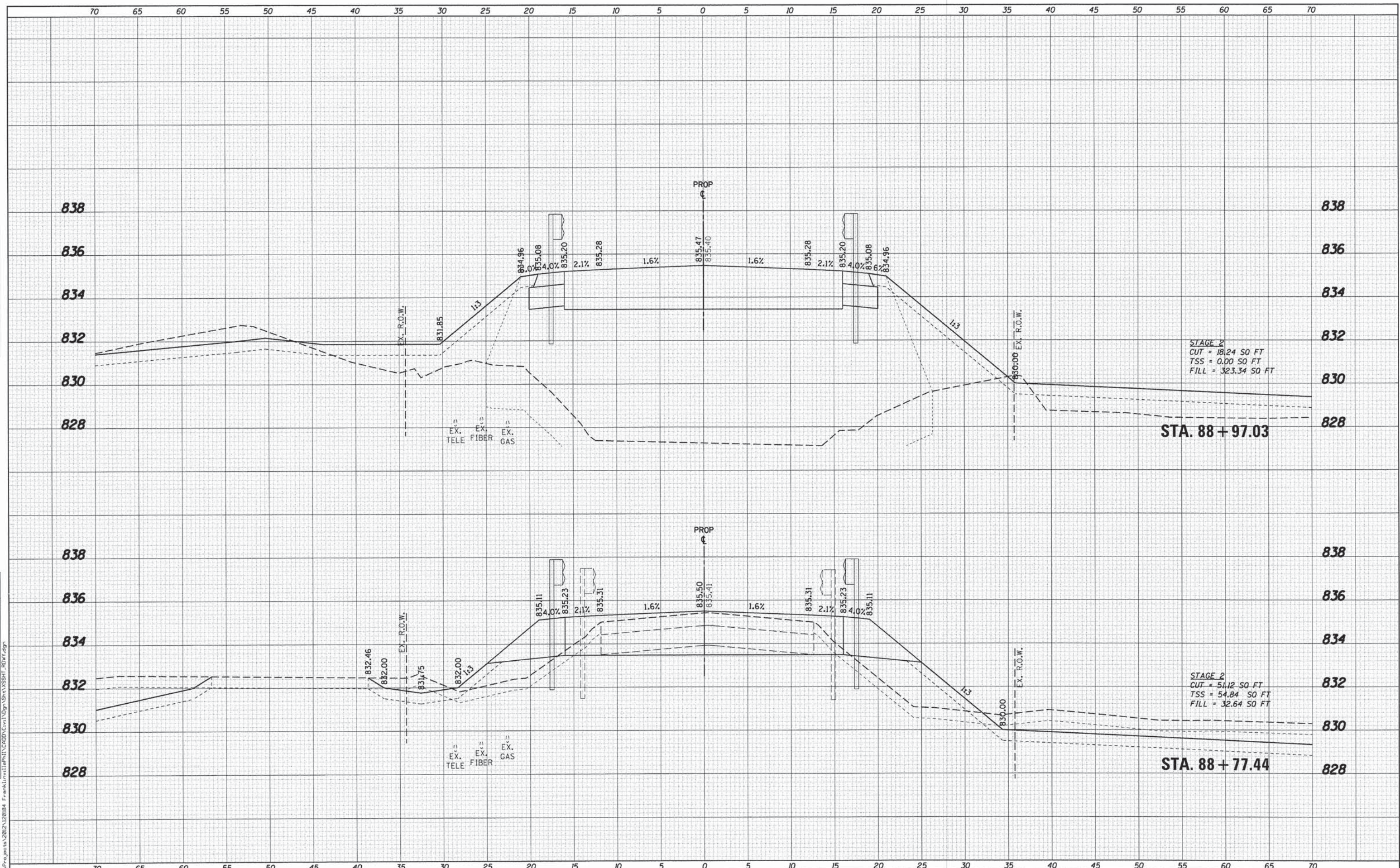
SCALE: H:5 V:2		SHEET NO. 5 OF 9 SHEETS		STA. 88+02.55 TO STA. 88+50.00	
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	MCHENRY	91	87
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

FILE NAME = \\p\projects\2012\120184 Franklinville\1000\1000\Civil\Ngn\Site\XSSH1.RDW.dgn

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
AREAS CHECKED	



STAGE 2
 CUT = 18.24 SO FT
 TSS = 0.00 SO FT
 FILL = 32.34 SO FT

STA. 88 + 97.03

STAGE 2
 CUT = 51.12 SO FT
 TSS = 54.84 SO FT
 FILL = 32.64 SO FT

STA. 88 + 77.44

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USER NAME = nperris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:5	DRAWN - NDP	REVISED -
PLOT DATE = 1/30/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

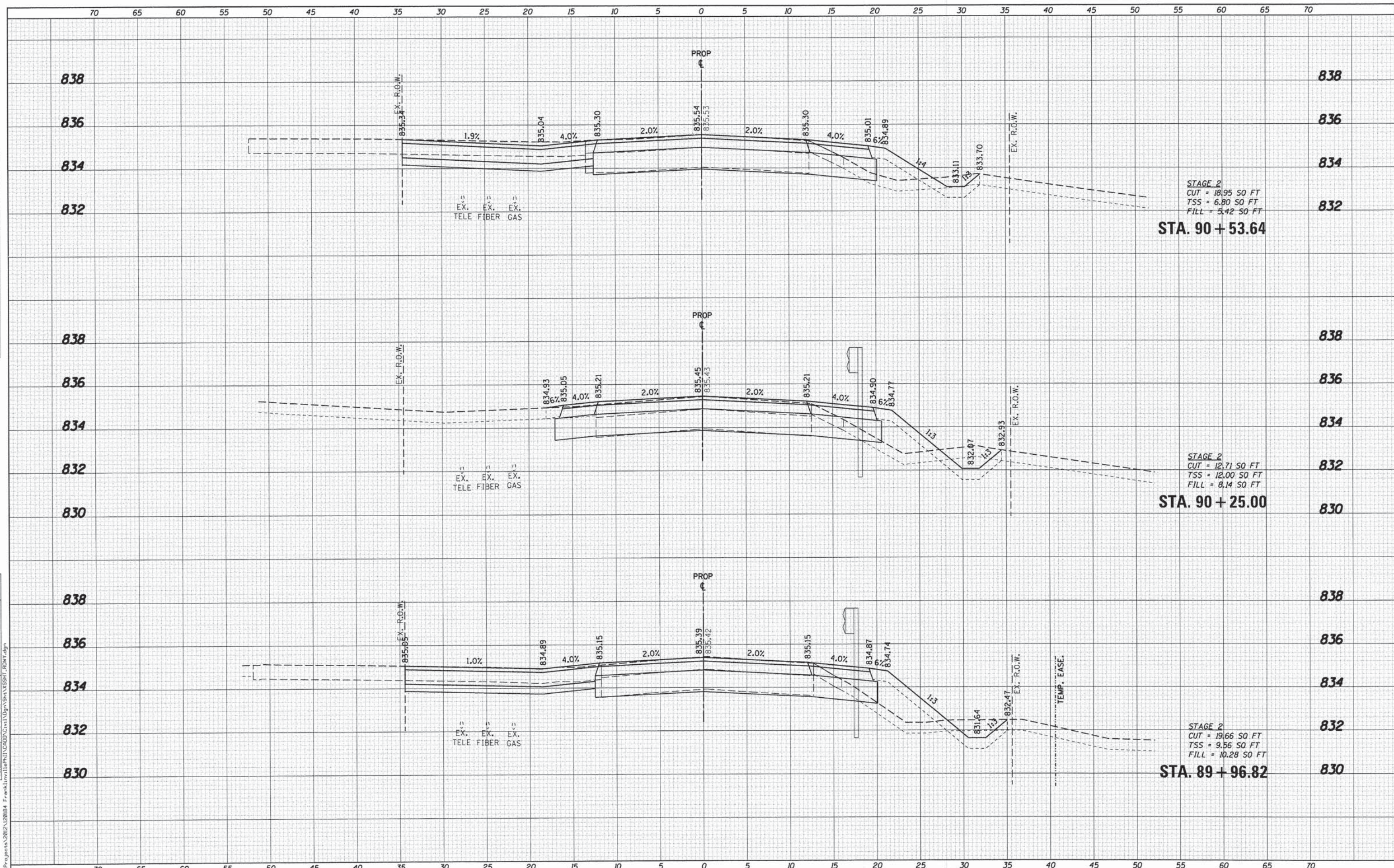
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
FRANKLINVILLE RD OVER FRANKLINVILLE CREEK	
SCALE: H:5 V:2	SHEET NO. 6 OF 9 SHEETS
STA. 88+77.44 TO STA. 88+97.03	

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 88
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SCOTTED	
NOTE BOOK	
NO.	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
SCOTTED	
NOTE BOOK	
NO.	
AREAS CHECKED	



STAGE 2
 CUT = 18.95 SO FT
 TSS = 6.80 SO FT
 FILL = 5.42 SO FT
STA. 90 + 53.64

STAGE 2
 CUT = 12.71 SO FT
 TSS = 12.00 SO FT
 FILL = 8.14 SO FT
STA. 90 + 25.00

STAGE 2
 CUT = 19.66 SO FT
 TSS = 9.56 SO FT
 FILL = 10.28 SO FT
STA. 89 + 96.82

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USER NAME = nperris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1/5	DRAWN - NDP	REVISED -
PLOT DATE = 1/30/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

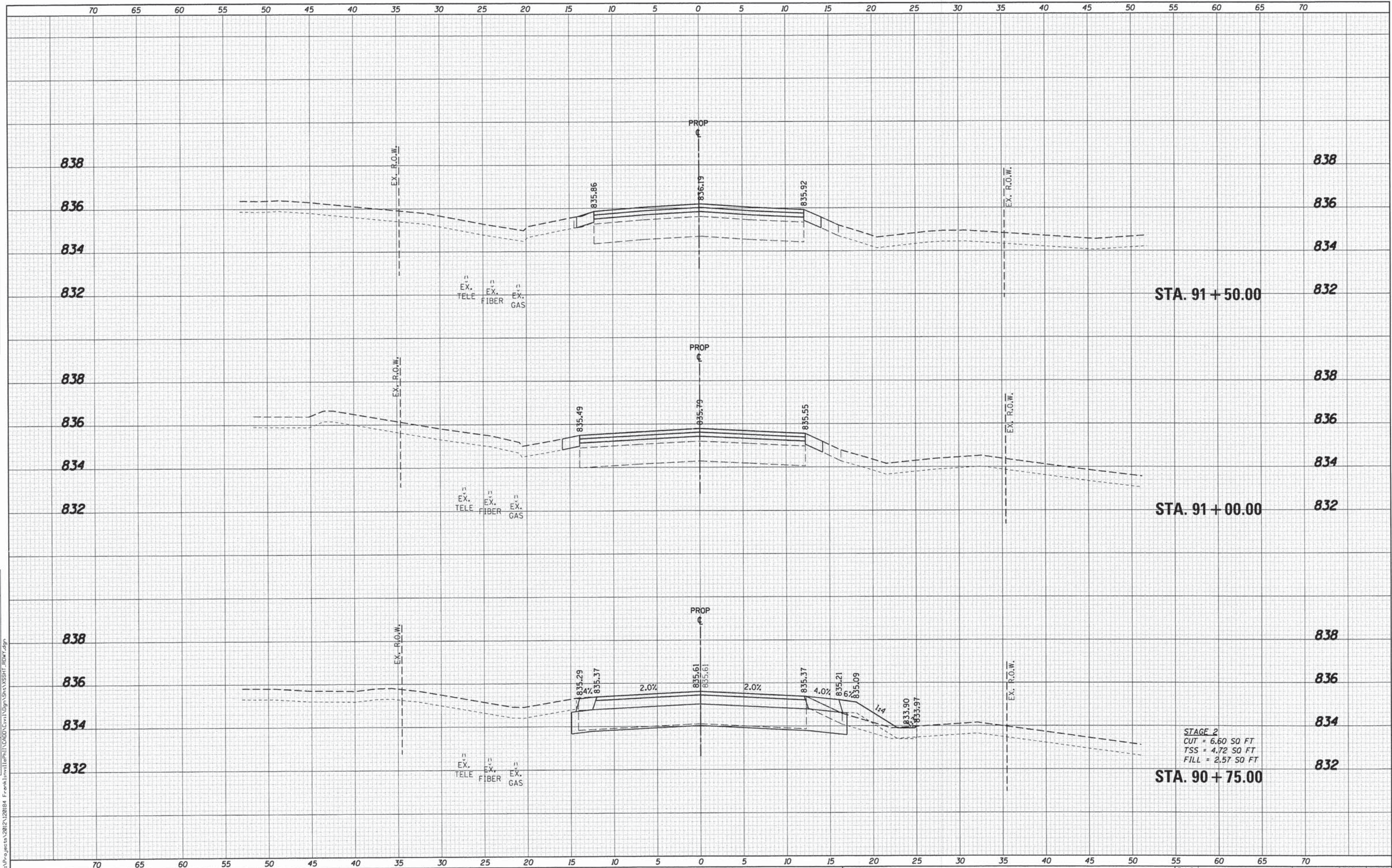
CROSS SECTIONS
 FRANKLINVILLE RD OVER FRANKLINVILLE CREEK
 SCALE: H5 V2 SHEET NO. 8 OF 9 SHEETS STA. 89+96.82 TO STA. 90+53.64

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0033	10-00378-00-BR	MCHENRY	91	90
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				

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

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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USER NAME = nparris	DESIGNED - MNB	REVISED -
PLOT SCALE = 1:5	DRAWN - NDP	REVISED -
PLOT DATE = 1/30/2015	CHECKED - AEU	REVISED -
	DATE - 02/02/2015	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS		
FRANKLINVILLE RD OVER FRANKLINVILLE CREEK		
SCALE: H:5 V:2	SHEET NO. 9 OF 9 SHEETS	STA. 90+75.00 TO STA. 91+50.00

F.A.S. RTE. 0033	SECTION 10-00378-00-BR	COUNTY MCHENRY	TOTAL SHEETS 91	SHEET NO. 91
CONTRACT NO. 61B25				
ILLINOIS FED. AID PROJECT				