

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
**PROPOSED
 HIGHWAY PLANS**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	65BR	MONROE	22	1

CONTRACT NO. 76387

INDEX OF SHEETS

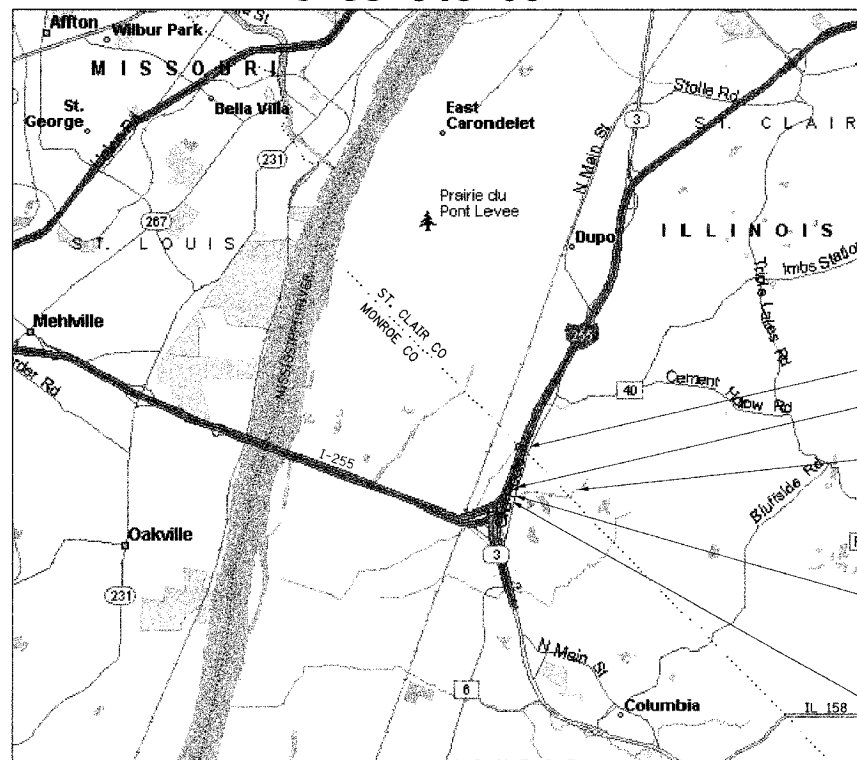
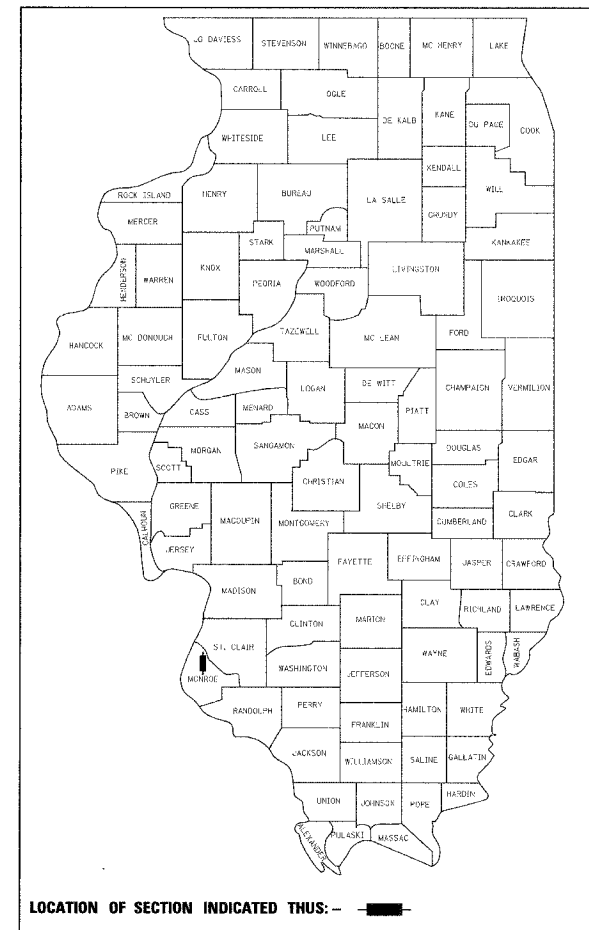
- 1 COVER SHEET
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- 17-22 CROSS-SECTIONS

TRAFFIC DATA

ADT = 3800 (2004)
 ADT = 5100 (2024)
 SU = 5.2%
 MU = 3.2%

F.A.U. ROUTE 9296 (OLD IL RTE 3)
 SECTION 65BR
~~PROJECT NO. ()~~
 BRIDGE REPLACEMENT
 MONROE COUNTY

C-98-048-06



OLD IL RTE 3
 BEGIN IMPROVEMENTS
 STA 24+84
 HILL LAKE CREEK
 PROP THREE SIDED PRECAST
 CONCRETE STRUCTURE
 SN 067-0041
 STA 26+34
 END IMPROVEMENTS
 STA 27+84

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED *October 25 2007*

Mary C. Jamie
 DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

December 7, 2007

Eric S. Haral
 INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

December 7, 2007

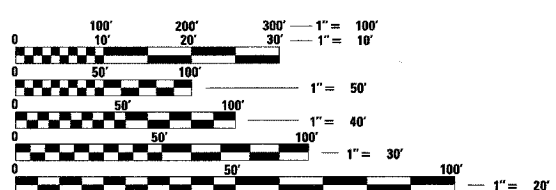
Christine M. Reed
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

Benton and Associates, Inc.
 CONSULTING ENGINEERS / LAND SURVEYORS
 JACKSONVILLE, ILLINOIS 62650
 JANUARY 2007

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



William J. Sleeman 10/15/07 11/30/09
 ILLINOIS PROFESSIONAL NO. 048605 EXPIRES



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

CONTRACT NO. 76387

LOCATION MAP
 GRAPHIC SCALE
 GROSS AND NET LENGTH OF PROJECT: 300 FEET (0.0568 MILES)

LATITUDE X: 38°28' 41"
 LONGITUDE Y: 90°13' 18"

PROJECT ENGINEER: PATTI LEBEAU (618)346-3179
 SQUAD CONTACT: ARTHUR MUEHLFELD (618) 346-3209

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNITS	TOTAL	CONSTRUCTION TYPE CODE 100% STATE	
				ROADWAY	BRIDGE
				I000-2A	X024-2A
20200100	EARTH EXCAVATION	CU YD	78	78	0
20400800	FURNISHED EXCAVATION	CU YD	17	17	0
25000200	SEEDING, CLASS 2	ACRE	0.25	0.25	0
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23	23	0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23	23	0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23	23	0
25100115	MULCH, METHOD 2	ACRE	0.25	0.25	0.0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	25	25	0
28000300	TEMPORARY DITCH CHECKS	EACH	3	3	0
28000500	INLET AND PIPE PROTECTION	EACH	6	6	0
28100107	STONE RIPRAP, CLASS A4	SQ YD	205	0	205
28200200	FILTER FABRIC	SQ YD	205	0	205
30200650	PROCESSING MODIFIED SOIL 12"	SQ YD	321	234	87
30201500	LIME	TON	6.4	4.7	1.7
35100100	AGGREGATE BASE COURSE, TYPE A	TON	110	80	30
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	30	30	0
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	1.0	1.0	0.0
40600300	AGGREGATE (PRIME COAT)	TON	5	5	0
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	41	41	0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	289	289	0
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	82	82	0
40701901	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 11"	SQ YD	321	234	87
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	23	23	0
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	402	402	0
44000100	PAVEMENT REMOVAL	SQ YD	276	276	0
48203100	HOT-MIX ASPHALT SHOULDERS	TON	89	89	0
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	0	1
50105220	PIPE CULVERT REMOVAL	FOOT	124	124	0
50300225	CONCRETE STRUCTURES	CU YD	38.0	0.0	38.0
50800105	REINFORCEMENT BARS	POUND	3370	0	3370
50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1	0
51201600	FURNISHING STEEL PILES HP12X53	FOOT	1020	0	1020

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNITS	TOTAL	CONSTRUCTION TYPE CODE 100% STATE	
				ROADWAY	BRIDGE
				I000-2A	X024-2A
51202305	DRIVING PILES	FOOT	1020	0	1020
51203600	TEST PILE STEEL HP12X53	EACH	1	0	1
51204650	PILE SHOES	EACH	17	0	17
51500100	NAME PLATES	EACH	1	0	1
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	232	232	0
54213450	END SECTIONS, 15"	EACH	6	6	0
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	37.5	37.5	0.0
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	1	1	0
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1	0
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1	1	0
* 63100175	TRAFFIC BARRIER TERMINAL, TYPE 2 (SPECIAL)	EACH	2	2	0
63200310	GUARDRAIL REMOVAL	FOOT	25	25	0
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	3	3	0
67100100	MOBILIZATION	L SUM	1	1	0
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1	0
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	15	15	0
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1	1	0
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	675	675	0
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	4	4	0
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8	0
* 78200530	BARRIER WALL MARKERS, TYPE C	EACH	4		4
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2	0
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4	4	0
X0323330	PRECAST CONCRETE SUBSTRUCTURE	L SUM	1	0	1
X0325701	STEEL RAILING, TYPE 2399	FOOT	63	0	63
* XX005496	TRAFFIC BARRIER TERMINAL TYPE 6A (SPECIAL)	EACH	3	3	0
X0325898	THREE-SIDED PRECAST CONCRETE STRUCTURE 24' x 8'	FOOT	41	0	41

* SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES
 FAU ROUTE 9296
 SECTION 65BR
 MONROE COUNTY
 SCALE: VERT. _____
 HORIZ. _____
 DATE JANUARY 2007
 DRAWN BY LLO
 CHECKED BY LEL

PAVING SCHEDULE								
LOCATION STATION TO STATION	BITUMINOUS MATERIALS (PRIME COAT) (TON)	AGGREGATE (PRIME COAT) (TON)	INCIDENTAL HOT-MIX ASPHALT SURFACING (TON)	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 (TON)	LEVELING BINDER (MACHINE METHOD), N70 (TON)	HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 11" (SQ YD)	HOT-MIX ASPHALT SHOULDERS (TON)	AGGREGATE BASE COURSE, TYPE A (TON)
LT. 24+84.00 TO 25+65.00							7	
LT. 25+42.00 TO 26+10.00							20	
LT. 26+40.00 TO 26+72.00							9	
LT. 27+42.00 TO 27+84.00							3	
RT. 24+84.00 TO 25+40.00							5	
RT. 26+03.00 TO 26+30.00							8	
RT. 26+59.00 TO 27+84.00							37	
MAINLINE 24+84.00 TO 27+84.00	0.81	4.3		82	41			
STRUCTURE 26+19.03 TO 26+48.97						87		30
P.E. LT. 25+42.29	0.02	0.1	2.9					
C.E. RT. 25+76.16	0.07	0.4	10.2					
S.R. LT. 26+84.31	0.09	0.5	9.9					
LT. 24+84.00 TO 25+74.00								
LT. 25+74.00 TO 26+19.00						65		22
RT. 24+84.00 TO 25+83.00								
RT. 25+83.00 TO 26+19.00						52		18
LT. 26+48.97 TO 26+85.00						52		18
LT. 26+85.00 TO 27+84.00								
RT. 26+48.97 TO 26+94.00						65		22
RT. 26+94.00 TO 27+84.00								
TOTAL	1.0	5.3	23.0	82	41	321	89	110

SEEDING SCHEDULE*					
LOCATION STATION TO STATION	SEEDING CLASS 2 (ACRE)	NITROGEN FERTILIZER NUTRIENT (LB)	PHOSPHORUS FERTILIZER NUTRIENT (LB)	POTASSIUM FERTILIZER NUTRIENT (LB)	MULCH METHOD 2 (ACRE)
LT. 24+84.00 TO 25+30.00	0.007	0.60	0.60	0.60	0.007
LT. 25+39.00 TO 26+00.00	0.016	1.47	1.47	1.47	0.016
LT. 26+49.00 TO 26+74.00	0.004	0.33	0.33	0.33	0.004
LT. 26+94.00 TO 27+84.00	0.011	0.96	0.96	0.96	0.011
RT. 24+84.00 TO 25+76.00	0.013	1.18	1.18	1.18	0.013
RT. 26+06.00 TO 26+20.00	0.002	0.19	0.19	0.19	0.002
RT. 26+71.00 TO 27+84.00	0.013	1.17	1.17	1.17	0.013
TOTAL	0.07	5.9	5.9	5.9	0.1

* BDE REQUIRES MINIMUM 0.25 ACRES OF SEEDING, AS REFLECTED IN THE SUMMARY OF QUANTITIES

PIPE CULVERT SCHEDULE		
LOCATION STATION TO STATION	END SECTIONS, 15" (EACH)	PIPE CULVERTS, CLASS D, TYPE 1 15" (FOOT)
26' LT. 25+25.00	1	
26' RT. 25+51.00	1	
26' LT. 26+04.00	1	
26' RT. 26+24.00	1	
25' LT. 26+43.00	1	
25' LT. 27+23.00	1	
26' LT. 25+25.00 TO 26+04.00		79
26' RT. 25+51.00 TO 26+24.00		73
25' LT. 26+43.00 TO 27+23.00		80
TOTAL	6	232

EARTHWORK SCHEDULE				
LOCATION STATION TO STATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJ. FOR SHRINKAGE (25% SHRINKAGE) (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE (CU YD)
24+50.00 TO 25+00.00	5.9	4.4	1.0	3.4
25+00.00 TO 25+50.00	12.7	9.5	7.8	1.7
25+50.00 TO 26+00.00	15.0	11.3	30.5	-19.2
26+00.00 TO 26+50.00	11.5	8.6	29.4	-20.8
26+50.00 TO 27+00.00	10.0	7.5	5.9	1.6
27+00.00 TO 27+50.00	14.7	11.0	0.2	10.9
27+50.00 TO 28+00.00	7.9	5.9	0.0	5.9
TOTAL	77.7	58.3	74.8	-16.5

PAVEMENT MARKING SCHEDULE			
LOCATION STATION TO STATION	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (FOOT)	RAISED REFLECTIVE PAVEMENT MARKER (EACH)	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL (EACH)
EDGE LINES 24+84.00 TO 27+84.00	600		
CTR. SKIP 24+84.00 TO 27+84.00	75	4	4
TOTAL	675	4	4

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES
 FAU ROUTE 9296
 SECTION 65BR
 MONROE COUNTY
 SCALE: VERT. NONE
 HORIZ. NONE
 DATE: JANUARY 2007
 DRAWN BY LLO
 CHECKED BY LEL

F.A.U. RT. 9296	SECTION 65BR	COUNTY MONROE	TOTAL SHEETS 22	SHEET NO. 5
STA.		TO STA.		
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

CONTRACT NO. 76387

GUARDRAIL SCHEDULE

LOCATION STATION TO STATION	STEEL BRIDGE RAIL (FOOT)	STEEL PLATE BEAM GUARD RAIL, TYPE A (FOOT)	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT) (EACH)	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED) (EACH)	TRAFFIC BARRIER TERMINAL, TYPE 6A (EACH)	TRAFFIC BARRIER TERMINAL, TYPE 6A (SPECIAL) (EACH)	TRAFFIC BARRIER TERMINAL, TYPE 2 (SPECIAL) (EACH)
STRUCTURE 26+34.00	63.0						
RT. 26+86.25 27+23.75		37.5					
LT. 25+40.12 25+90.12				1			
RT. 27+23.75 27+73.75			1				
LT. 25+90.12 26+08.87						1	
LT. 26+38.00 26+56.75						1	
RT. 26+12.00 26+30.75						1	
RT. 26+57.00 26+88.25					1		
LT. 26+56.75 26+67.00							1
RT. 26+05.00 26+12.00							1
TOTAL	63.0	37.5	1	1	1	3	2

REMOVAL SCHEDULE

LOCATION STATION TO STATION	HMA SURFACE REMOVAL - BUTT JOINT (SQ YD)	**HMA SURFACE REMOVAL, VARIABLE DEPTH (SQ YD)	PAVEMENT REMOVAL (SQ YD)	PIPE CULVERT REMOVAL (FOOT)	CONCRETE HEADWALL REMOVAL (EACH)	GUARDRAIL REMOVAL (FOOT)
P.E. LT. 25+42.29	26.1					
S.R. LT. 26+84.31	88.2					
C.E. RT. 25+83.00	30.0					
MAINLINE 24+84.00 25+09.00	72.2					
LT. 24+84.00 25+74.00			10.0			
LT. 25+09.00 25+74.00		93.9				
RT. 24+84.00 25+83.00			11.0			
RT. 25+09.00 25+83.00		106.9				
LT. 25+74.00 26+19.00			65.0			
RT. 25+83.00 26+19.00			52.0			
LT. 26+48.97 26+85.00			52.0			
LT. 26+85.00 27+84.00			11.0			
RT. 26+48.97 26+94.00			65.0			
LT. 26+85.00 27+59.00		106.9				
RT. 26+94.00 27+59.00		93.9				
RT. 26+94.00 27+84.00			10.0			
MAINLINE 27+59.00 27+84.00	72.2					
20' LT. 25+34.00				22	1	
25' RT. 25+80.00				57		
21' LT. 26+62.00				45		
16' RT. 27+98.00 28+23.00						25
TOTAL	288.7	401.6	276.0	124	1	25

**VARIABLE DEPTH SURFACE REMOVAL REQUIRED TO ALSO CORRECT EXISTING PAVEMENT CROWN. SEE CROSS-SECTIONS

EROSION CONTROL SCHEDULE

LOCATION STATION TO STATION	TEMP. EROS. CONTROL SEEDING* (LB)	TEMPORARY DITCH CHECKS (EACH)	INLET AND PIPE PROTECTION (EACH)	STONE RIPRAP, CLASS A4 (SQ YD)	FILTER FABRIC (SQ YD)
LT. 24+84.00 TO 25+30.00	0.60				
LT. 25+39.00 TO 26+00.00	1.64				
LT. 26+49.00 TO 26+74.00	0.59				
LT. 26+94.00 TO 27+84.00	1.29				
RT. 24+84.00 TO 25+76.00	1.41				
RT. 26+06.00 TO 26+20.00	0.36				
RT. 26+71.00 TO 27+84.00	0.50				
26' LT. 25+14.00		1			
26' RT. 25+32.00		1			
25' LT. 27+25.00		1			
26' LT. 25+25.00			1		
26' RT. 25+51.00			1		
26' LT. 26+04.00			1		
26' RT. 26+24.00			1		
25' LT. 26+43.00			1		
25' LT. 27+12.00			1		
4 QUADRANTS @ STRUCTURE				205	205
TOTAL	6.4	3	6	205	205

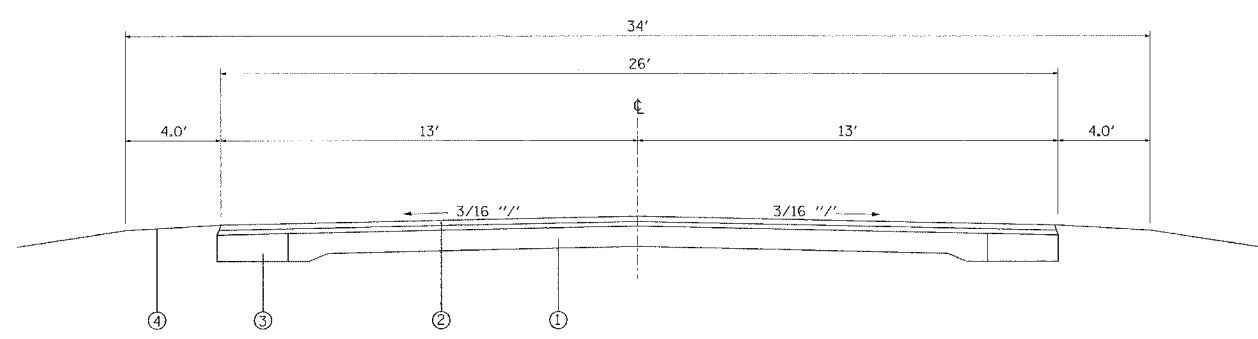
* BDE REQUIRES MINIMUM 0.25 ACRES OF SEEDING. THE SUMMARY OF QUANTITIES REFLECTS RATE FOR 0.25 ACRES

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES
 FAU ROUTE 9296
 SECTION 65BR
 MONROE COUNTY
 SCALE: VERT. NONE
 HORIZ. DATE JANUARY 2007
 DRAWN BY LLQ
 CHECKED BY LEL

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	65BR	MONROE	22	6
STA.		TO STA.		
FED. ROAD DIST. NO. 8		ILLINOIS FED. AID PROJECT		

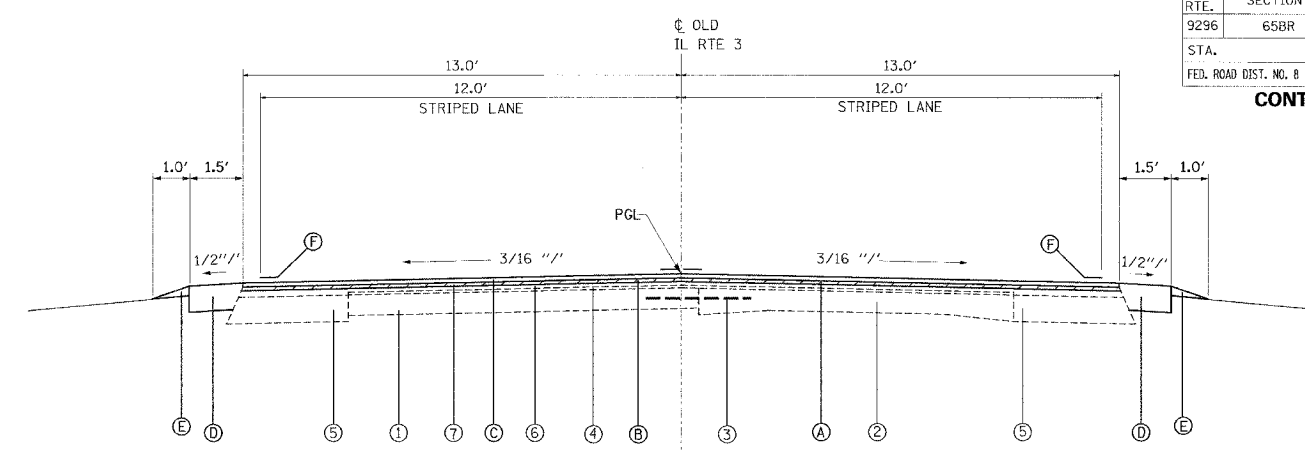
CONTRACT NO. 76387



EXISTING ADJACENT ROADWAY TYPICAL SECTION

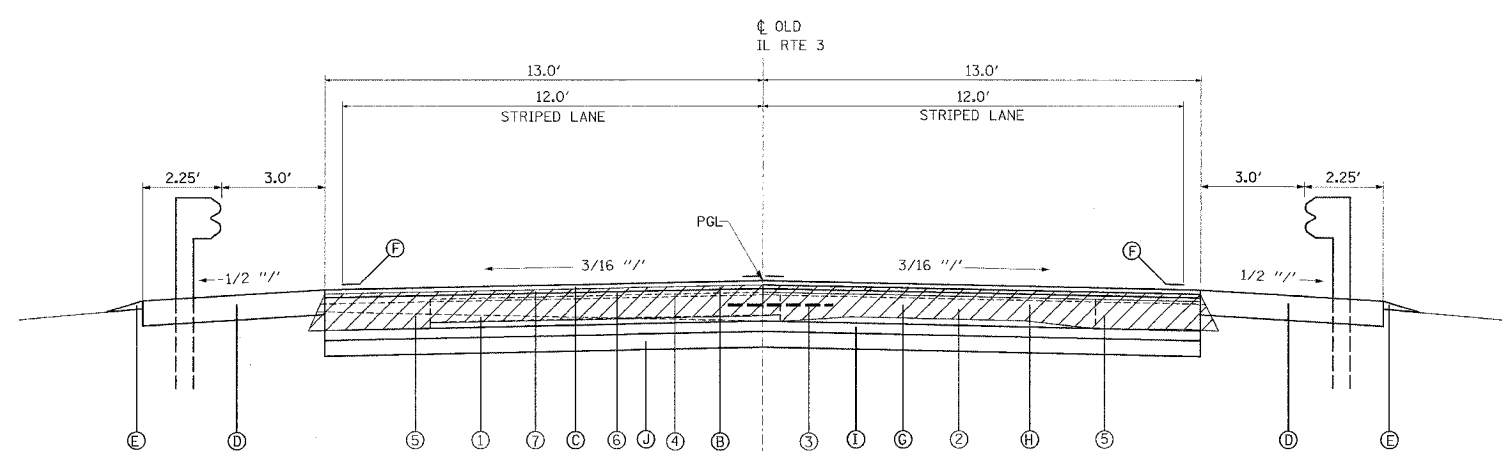
US 45 WAYNE COUNTY STRUCTURE # 096-0023
DEER CREEK

- ① EXISTING ORIGINAL 9-6-9 PCC PAVEMENT
- ② EXISTING RESURFACING, 6 1/2"
- ③ EXISTING BITUMINOUS WIDENING, 9" (4' WIDE)
- ④ EXISTING EARTH SHOULDER



PROPOSED ROADWAY TYPICAL SECTION

LT. STA. 24+84 TO LT. STA. 25+74
RT. STA. 24+84 TO RT. STA. 25+83
LT. STA. 26+85 TO LT. STA. 27+84
RT. STA. 26+94 TO RT. STA. 27+84

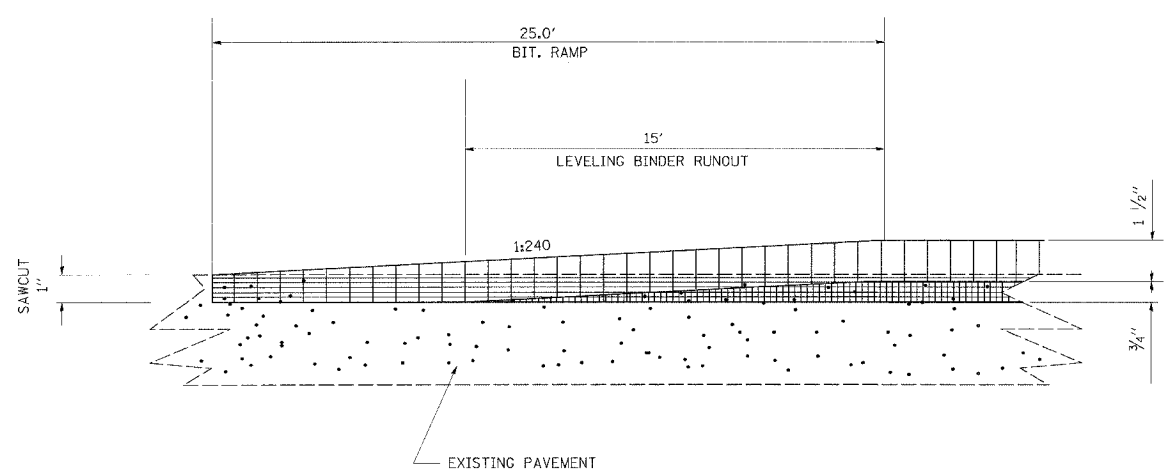


PROPOSED ROADWAY TYPICAL SECTION

LT. STA. 25+74 TO LT. STA. 26+19.03
RT. STA. 25+83 TO RT. STA. 26+19.03
LT. STA. 26+48.97 TO LT. STA. 26+85
RT. STA. 26+48.97 TO RT. STA. 26+94

- ① EXISTING ORIGINAL CONCRETE PAVEMENT
- ② EXISTING CONCRETE WIDENING, 9-7-9 (1922)
- ③ EXISTING 3/4" ROUND BAR (1922)
- ④ EXISTING LEVELING BINDER, 3/4" (MACHINE METHOD) (1969)
- ⑤ EXISTING HOT-MIX ASPHALT BASE COURSE WIDENING, 9" (1969)
- ⑥ EXISTING HOT-MIX ASPHALT BINDER COURSE, 1 1/4" (1969)
- ⑦ EXISTING HOT-MIX ASPHALT SURFACE COURSE, CLASS 1, 1" (1969)
- A PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH
- B PROPOSED LEVELING BINDER (MACHINE METHOD), N70, 3/4"
- C PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70 1 1/2"
- D PROPOSED HOT-MIX ASPHALT SHOULDERS, 8"
- E PROPOSED EARTH SHOULDER
- F PROPOSED PAVEMENT MARKING LINE
- G PROPOSED PAVEMENT REMOVAL
- H PROPOSED HOT-MIX ASPHALT PAVEMENT (FULL DEPTH), 11"
- I PROPOSED AGGREGATE BASE COURSE, TYPE A, 6"
- J PROPOSED LIME MODIFIED SOIL, 12"

EXISTING MATERIAL TO BE REMOVED



BUTT JOINT DETAIL

STA. 24+84 TO STA. 25+09
STA. 27+59 TO STA. 27+84

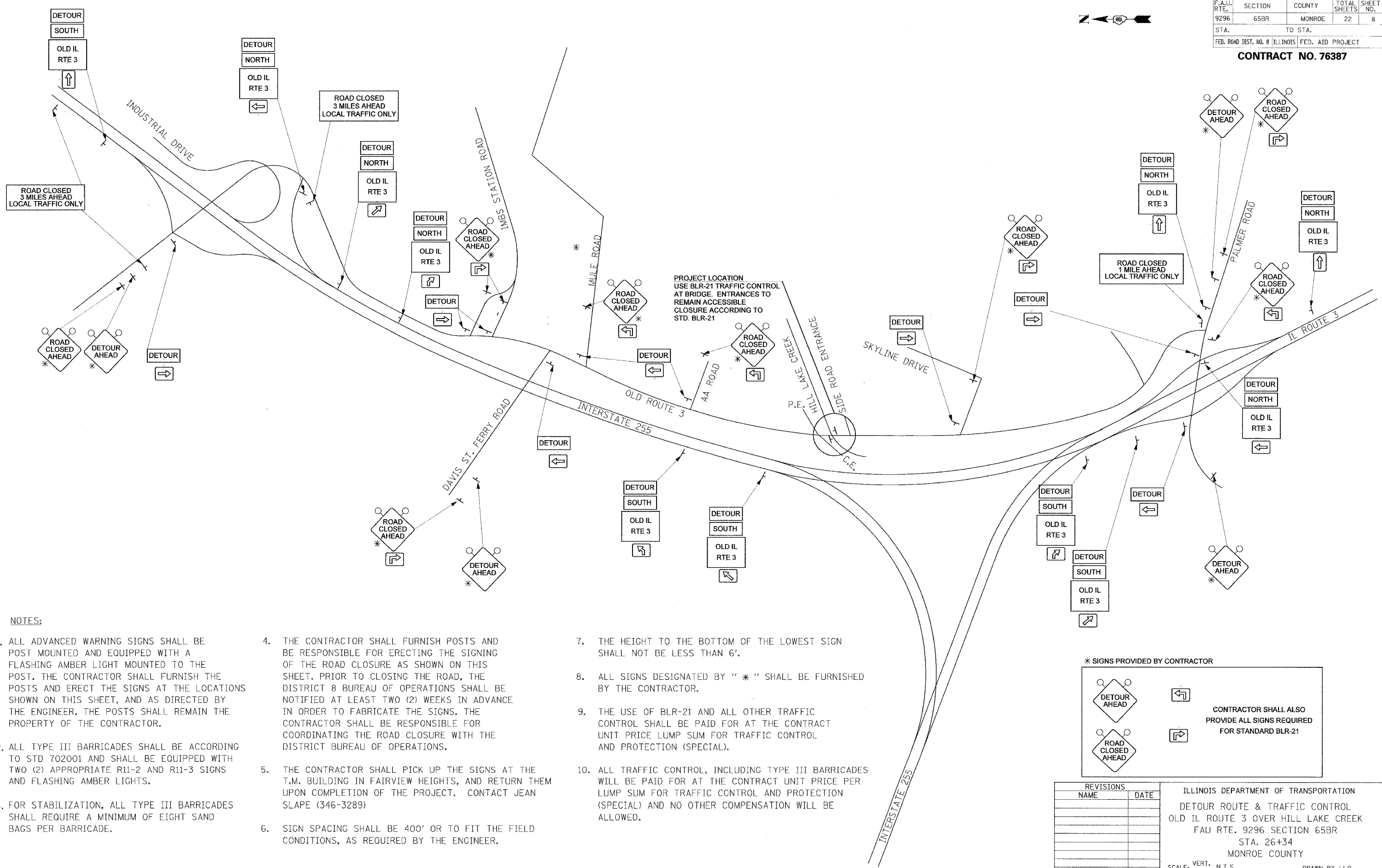
- HOT-MIX ASPHALT SURFACE REMOVAL
- PROPOSED HOT-MIX ASPHALT SURFACE COURSE, 1 1/2"
- PROPOSED LEVELING BINDER (MACHINE METHOD), N70 3/4"
- EXISTING PAVEMENT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTION & BUTT JOINT DETAIL
FAU 9296
SECTION 65BR
MONROE COUNTY
SCALE: VERT. NONE
HORIZ. JUNE 2007
DRAWN BY JLL
CHECKED BY WJS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	65BR	MONROE	22	8
STA.		TO STA.		
FED. ROAD DIST. NO. 8		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 76387



NOTES:

- ALL ADVANCED WARNING SIGNS SHALL BE POST MOUNTED AND EQUIPPED WITH A FLASHING AMBER LIGHT MOUNTED TO THE POST. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT THE SIGNS AT THE LOCATIONS SHOWN ON THIS SHEET, AND AS DIRECTED BY THE ENGINEER. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- ALL TYPE III BARRICADES SHALL BE ACCORDING TO STD 702001 AND SHALL BE EQUIPPED WITH TWO (2) APPROPRIATE R11-2 AND R11-3 SIGNS AND FLASHING AMBER LIGHTS.
- FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF EIGHT SAND BAGS PER BARRICADE.
- THE CONTRACTOR SHALL FURNISH POSTS AND BE RESPONSIBLE FOR ERECTING THE SIGNING OF THE ROAD CLOSURE AS SHOWN ON THIS SHEET. PRIOR TO CLOSING THE ROAD, THE DISTRICT 8 BUREAU OF OPERATIONS SHALL BE NOTIFIED AT LEAST TWO (2) WEEKS IN ADVANCE IN ORDER TO FABRICATE THE SIGNS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE ROAD CLOSURE WITH THE DISTRICT BUREAU OF OPERATIONS.
- THE CONTRACTOR SHALL PICK UP THE SIGNS AT THE T.M. BUILDING IN FAIRVIEW HEIGHTS, AND RETURN THEM UPON COMPLETION OF THE PROJECT. CONTACT JEAN SLAPE (346-3289)
- SIGN SPACING SHALL BE 400' OR TO FIT THE FIELD CONDITIONS, AS REQUIRED BY THE ENGINEER.
- THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN SHALL NOT BE LESS THAN 6'.
- ALL SIGNS DESIGNATED BY "*" SHALL BE FURNISHED BY THE CONTRACTOR.
- THE USE OF BLR-21 AND ALL OTHER TRAFFIC CONTROL SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).
- ALL TRAFFIC CONTROL, INCLUDING TYPE III BARRICADES WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL) AND NO OTHER COMPENSATION WILL BE ALLOWED.

* SIGNS PROVIDED BY CONTRACTOR

		CONTRACTOR SHALL ALSO PROVIDE ALL SIGNS REQUIRED FOR STANDARD BLR-21

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DETOUR ROUTE & TRAFFIC CONTROL
 OLD IL ROUTE 3 OVER HILL LAKE CREEK
 FAU RTE. 9296 SECTION 65BR
 STA. 26+34
 MONROE COUNTY

SCALE: VERT. N.T.S.
 HORIZ. N.T.S.
 DATE: JANUARY 2007

DRAWN BY LLQ
 CHECKED BY LEL

BENCHMARK "A"

Chisled "X" on South End of West Handrail of Structure No. 067-0011. Elevation = 420.32

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	65BR	MONROE	22	9
F.A.U. 9296 65BR		ILLINOIS		FED. AID PROJECT-
CONTRACT NO. 76387		SHEET NO. 1		
		5 SHEETS		

EXISTING STRUCTURE:

Structure No. 067-0011 built in 1915 and widened in 1923 as F.A.U. ROUTE 9296, Section 65BR single-span, reinforced concrete slab bridge on closed abutments, on spread footings and 31° skew 22'-0" back-to-back of abutments, 32'-0" out to out deck.

Road shall be closed to traffic and rerouted during construction.

No salvage.

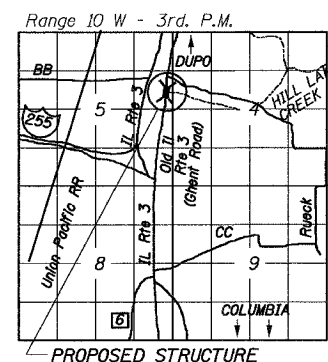
1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
2. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
3. The Contractor shall drive 1 test pile to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
4. Excavation behind the existing abutment walls shall be done before removing the existing superstructure. The cost of excavation and backfill required to install the new structure shall be included in the cost of the THREE SIDED PRECAST CONCRETE STRUCTURES.

5. The headwall of the precast structure shall be designed to resist the applied lateral rail loads in accordance with the 2002 AASHTO.
6. All lateral loads applied to the wingwall shall be resisted by deadmen provided by the supplier of the three sided structure. The cost of the deadmen shall be included in the cost of Precast Concrete Substructure.
7. The Contractor shall construct the new structure inside the existing Right-of-Way limits.

General Notes

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



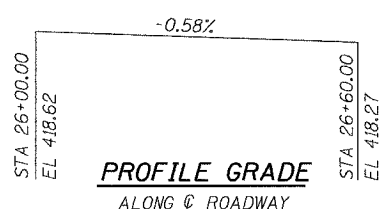
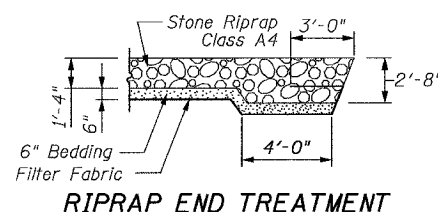
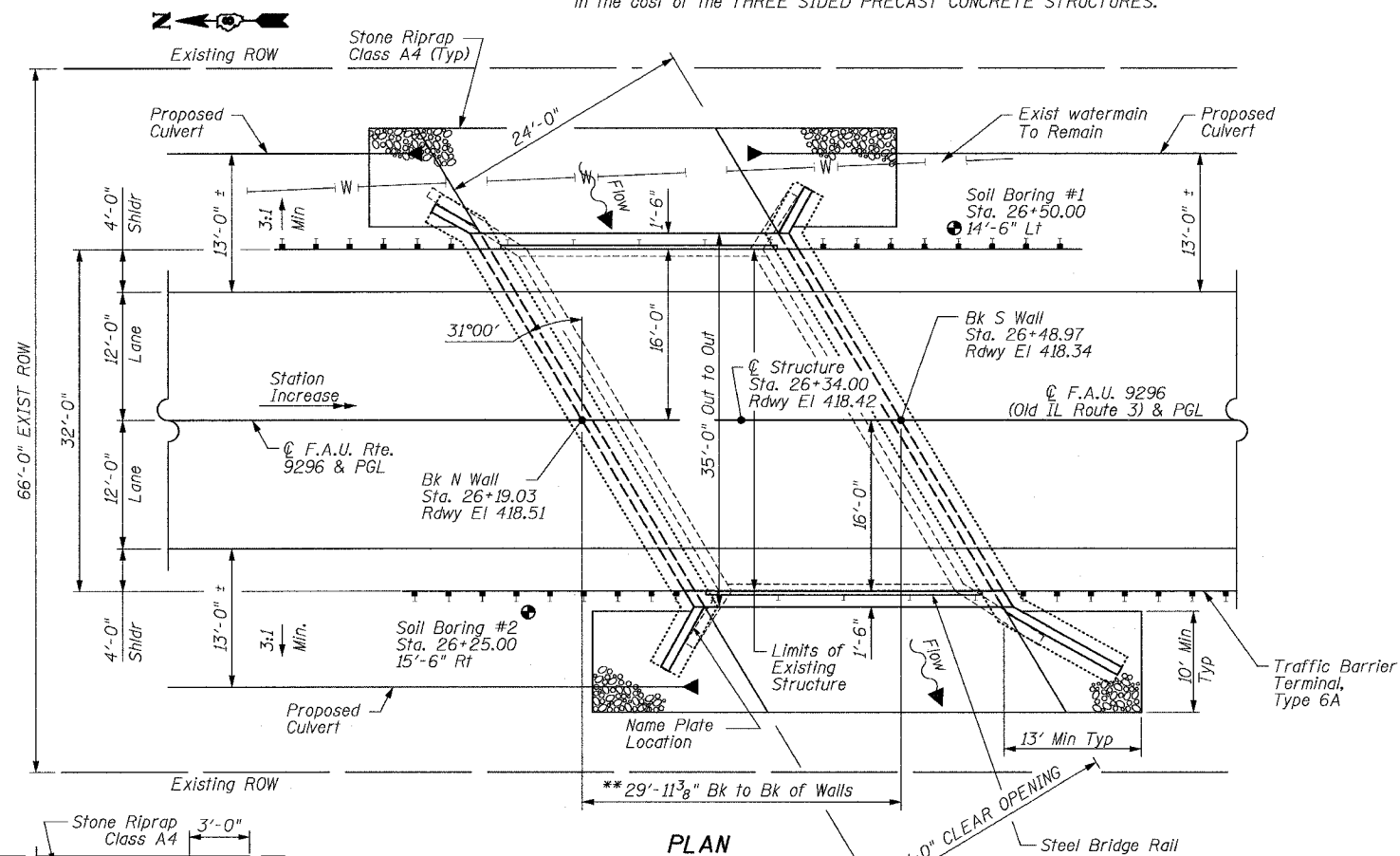
WATERWAY INFORMATION

Drainage Area = 1.39 mi² Low Grade Elev = 417.90 @ Sta. 29+84

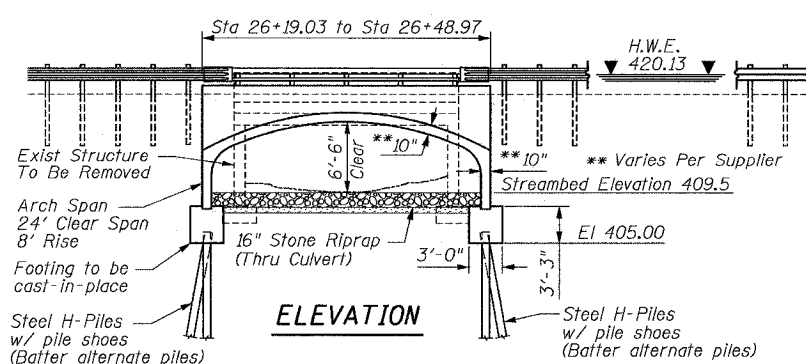
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	50	2,513	103	130	420.13	-0.08	420.05	420.05
Base	100	2,972	103	130	420.34	-0.07	420.27	420.27
Overtopping	< 2	250	103	130	418.03	-0.13	417.90	417.90
Scour	10	1,500	103	130	419.64	-0.07	419.57	419.56

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A4	Sq Yd	205
Removal of Existing Structures	Each	1
Concrete Structures	Cu Yd	38.0
Reinforcement Bars	Pound	3370
Steel Railing, Type 2399	Foot	63
Furnishing Steel Piles HP 12x53	Foot	1020
Driving Piles	Foot	1020
Test Pile Steel HP 12x53	Each	1
Pile Shoes	Each	17
Name Plates	Each	1
Three Sided Precast Concrete Structures 24'x8'	Foot	41.0
Precast Concrete Substructure	L Sum	1
Filter Fabric	Sq Yd	205



DESIGNED	- LEL
CHECKED	- REG
DRAWN	- LEL
CHECKED	-



DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

FIELD UNITS

$f_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

PRECAST UNITS

$f_c = 5,000$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 65,000$ psi (welded wire fabric)

SEISMIC DATA

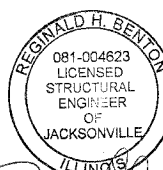
Seismic Performance Category (SPC) = B
Bedrock Acceleration Coefficient (A) = 11.5%g
Site Coefficient (S) = 2.0

LOADING HS20-44

Allow 50 PSF for Future Wearing Surface

SHEET INDEX

- General Plan 1
- Foundation Plan & Details 2
- Cross Section & Wingwall Elevation Details 3
- Steel Bridge Rail Curb Mounted (2399) 4
- Steel H-Pile Details 5



Reginald H. Benton
11/20/2007
EXPIRES 11/24/2008

STATION 26+34.00
BUILT 20__ BY
STATE OF ILLINOIS
FAU ROUTE 9296
SECTION 65BR
LOADING HS20
STR. NO. 067-0041

NAME PLATE
See Std. 515001

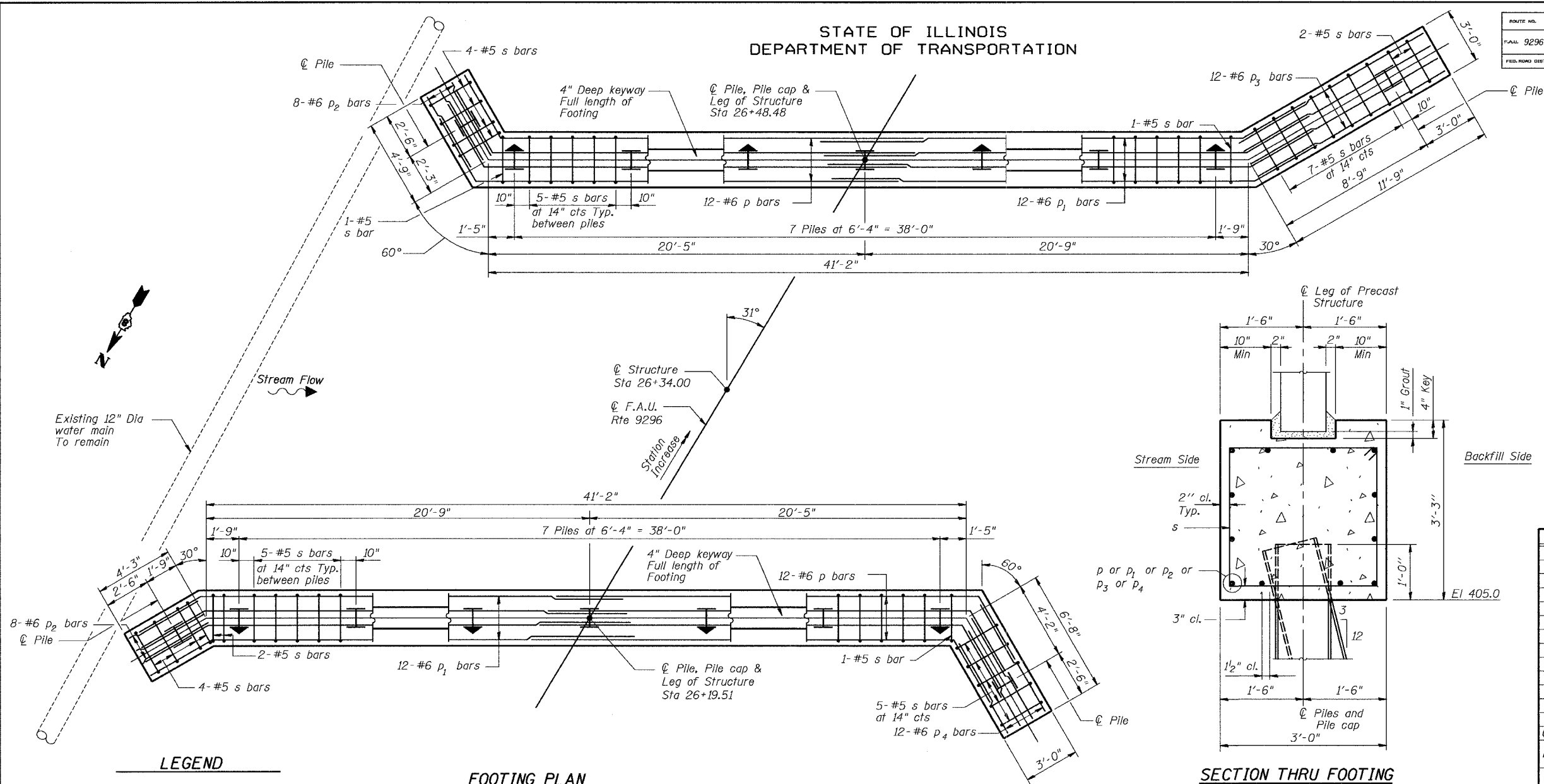
GENERAL PLAN
OLD IL ROUTE 3
OVER
HILL LAKE CREEK
F.A.U. ROUTE 9296
SECTION 65BR
MONROE COUNTY
STATION 26+34
STRUCTURE NO. 067-0041

BENTON & ASSOCIATES, INC.
Consulting Engineers / Land Surveyors
1970 West Lafayette Ave. Jacksonville, IL 62650
Phone: 217-245-4146 Fax: 217-245-4149
IL Design Firm Registration No. 184-000852

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	65BR	MONROE	22	10
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-	CONTRACT NO. 76387	

SHEET NO. 2
5 SHEETS



Existing 12" Dia water main To remain

LEGEND

- Battered Pile 3"/ft (Batter toward Backfill)
- Vertical Pile (No Batter)

PILE DATA

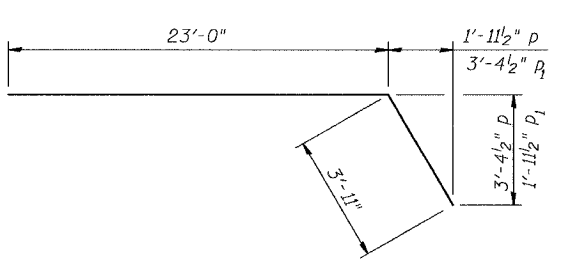
	N. Footing	S. Footing
Type:	HP12x53	HP12x53
Nominal Required Bearing:	419 kip	419 kip
Allowable Resistance Available:	140 kip	140 kip
Est. Length:	60'	60'
No. Production Piles:	8	9
No. Test Piles:	1	

DESIGNED	- LEL
CHECKED	- REG
DRAWN	- LEL
CHECKED	-

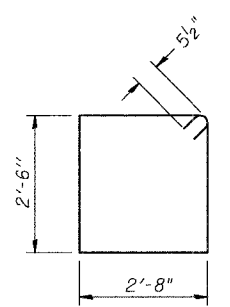
FOOTING PLAN

MINIMUM BAR LAP

#6 = 3'-7"



BARS p & p1



BAR s

SECTION THRU FOOTING

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
p	24	#6	26'-11"	
p1	24	#6	26'-11"	
p2	16	#6	4'-5"	
p3	12	#6	11'-7"	
p4	12	#6	5'-6"	
s	87	#5	11'-2"	
Concrete Structures			Cu Yd	38.0
Reinforcement Bars			Pound	3370
Furnishing Steel Piles Hp12x53			Foot	1020
Driving Piles			Foot	1020
Test Pile Steel HP12x53			Each	1
Pile Shoes			Each	17

NOTES

- The footing design is based on the following maximum reactions applied at the top of the pile footing:
Exterior footing: 10.5 kip/ft (vertical)
4.1 kip/ft (horizontal outward from stream)

The Contractor shall verify that the selected structure meets these design parameters. If the design parameters are exceeded, a complete foundation design with calculations, details and the required seals shall be submitted for review and approval.
- The location of the abutment centerlines are based on the precast concrete structure leg thickness of 10 inches. The location of abutment centerlines will require adjustment for legs of different thickness.
- The Contractor shall coordinate the abutment dimensions with the Supplier's precast shop drawings and make necessary adjustments approved by the Engineer.

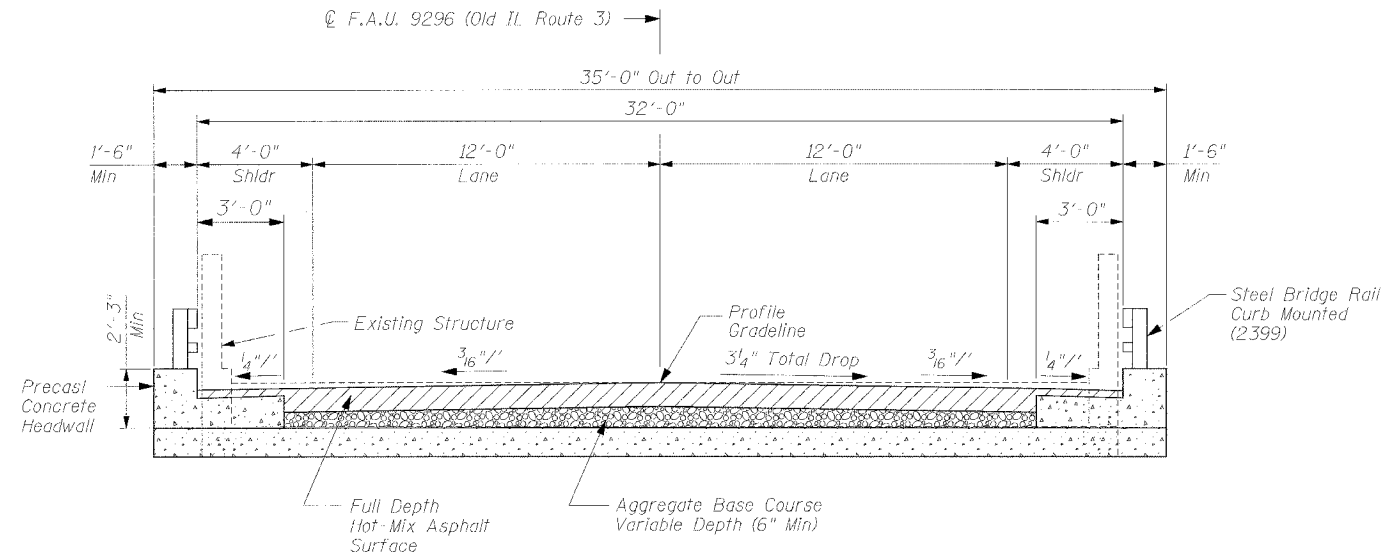
**FOUNDATION PLAN AND DETAILS
OLD IL ROUTE 3
OVER
HILL LAKE CREEK
F.A.U. ROUTE 9296
SECTION 65BR
MONROE COUNTY
STATION 26+34
STRUCTURE NO. 067-0041**

BENTON & ASSOCIATES, INC.
Consulting Engineers / Land Surveyors
1970 West Lafayette Ave. Jacksonville, IL 62650
Phone: 217-245-4146 Fax: 217-245-4149
IL Design Firm Registration No. 184-000852

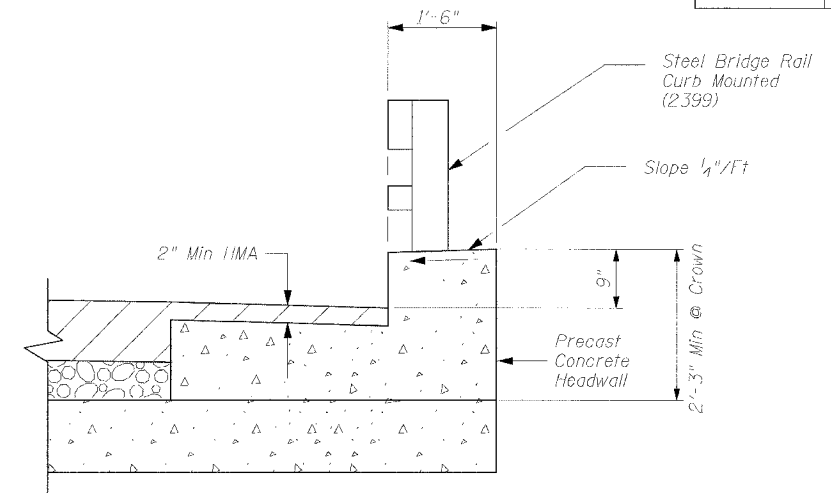
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3 4 SHEETS
F.A.U. 9296	65BR	MONROE	22	11	
FED. ROAD DIST. NO. 7	ALINDIS	FED. AID PROJECT			

CONTRACT NO. 76387



TYPICAL SECTION
(Dimensions at right angle to ϕ roadway)

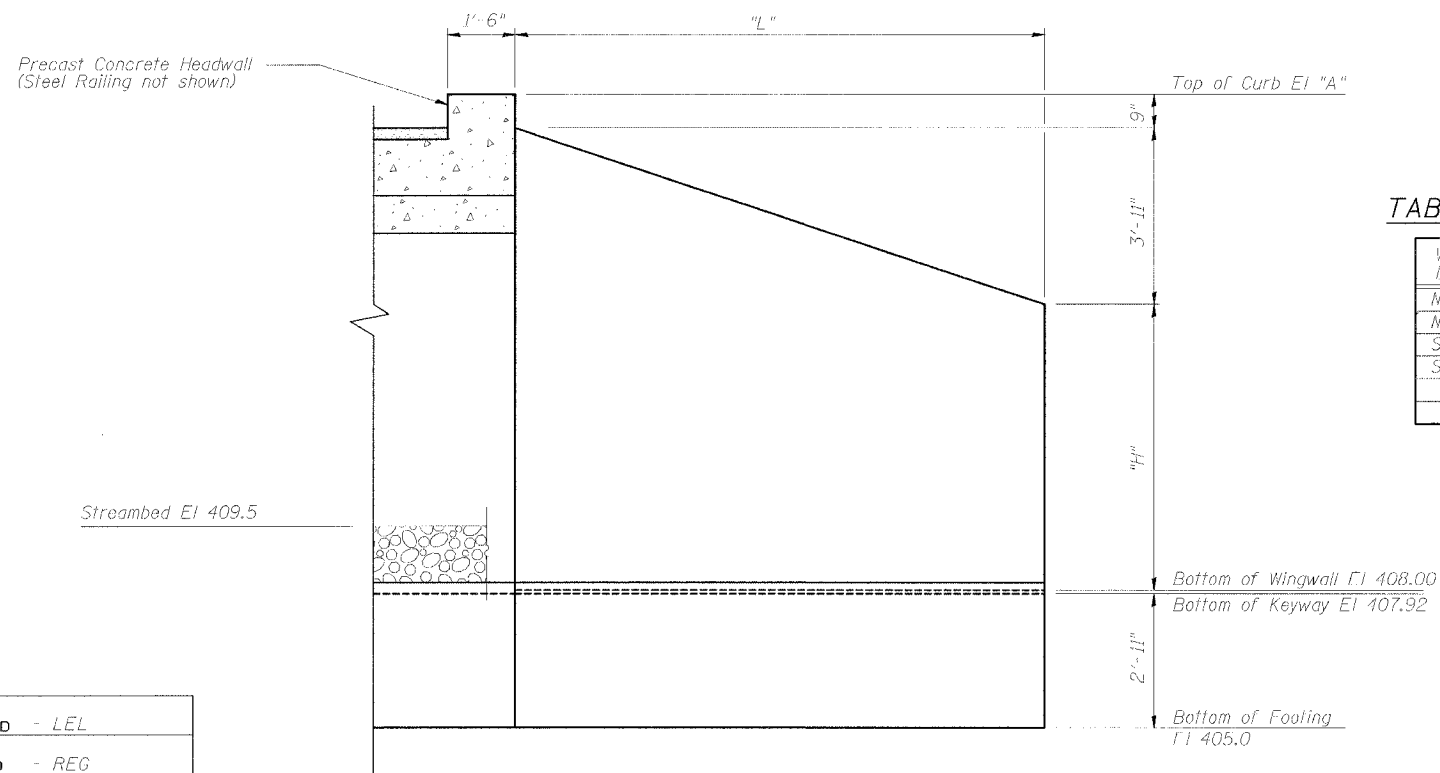


HEADWALL DETAIL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
Precast Concrete Substructure		L	Sum	1

Precast wingwalls, headwalls, deadmen and connections shall be included in the cost of Precast Concrete Substructure.



ELEVATION-WINGWALL
NE & SW Shown
NW & SE Opposite Hand

TABLE A - WINGWALL DIMENSIONS

Wingwall Location	H "A"	"L"	"H"
Northwest	418.99	6'-8"	6'-4"
Northeast	418.99	4'-3"	6'-4"
Southwest	418.92	11'-9"	6'-3"
Southeast	418.92	4'-9"	6'-3"

NOTES

- All lateral loads applied to the wingwalls shall be resisted by deadmen provided by the Supplier of the three sided structure.
- Wingwall dimensions may be adjusted to facilitate the connection to the three sided structure. Dimensions and connection details shall be shown on the shop drawings.

DESIGNED	- LEL
CHECKED	- REG
DRAWN	- LEL
CHECKED	-

CROSS SECTION AND
WINGWALL ELEVATION DETAILS
OLD IL ROUTE 3
OVER
HILL LAKE CREEK
F.A.U. ROUTE 9296
SECTION 65BR
MONROE COUNTY
STATION 26+34
STRUCTURE NO. 067-0041

BA BENTON & ASSOCIATES, INC.
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IL Design Firm Registration No. 184-000852

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO. 4 5 SHEETS
F.A.U. 9296	65BR	MONROE	22	12	
FED. ROAD DIST. NO. 7	ILLINOIS FED. AID PROJECT-		CONTRACT NO. 76387		

NOTES

Hollow structural sections shall conform to the requirements of ASTM designation A 500, Grade B, Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0°F.
All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts shall conform to AASHTO M 270, Grade 50.

Bolts, cap screws and nuts shall conform to the requirements of ASTM designation A 307 except that threaded rods, nuts and washers shall conform to AASHTO M 164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized according to AASHTO M 232.

All posts, railing, rail splices and anchor rods shall be galvanized after shop fabrication according to AASHTO M 111. Galvanized rail shall not be painted.

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for Steel Bridge Rail.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.

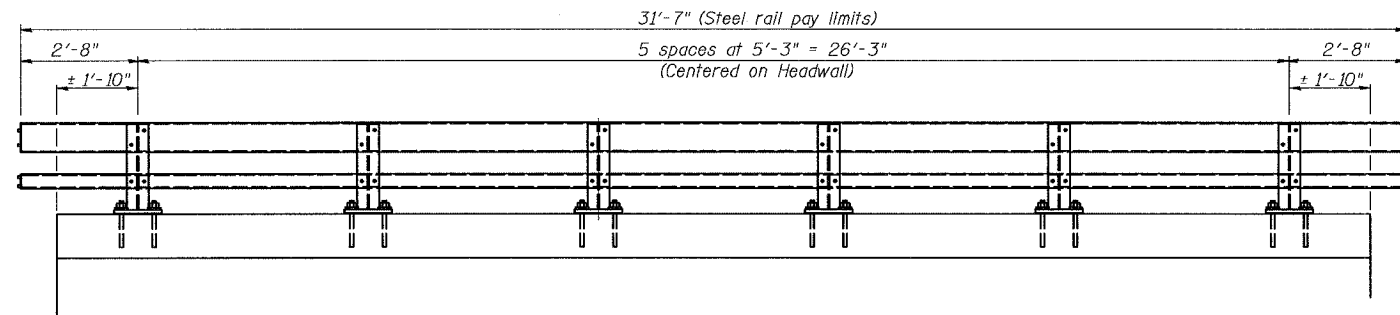
Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.

Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.

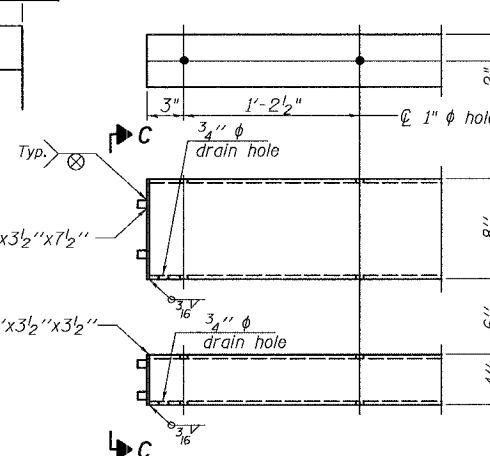
The Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with pre-measured amounts of the adhesive chemical.

Nuts for 1" φ threaded anchor rods connecting the base plate to the concrete shall be tightened to a snug fit and given an additional 1/8 turn.

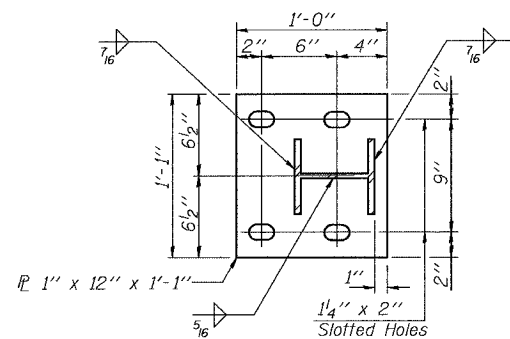
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



ELEVATION-BRIDGE RAIL

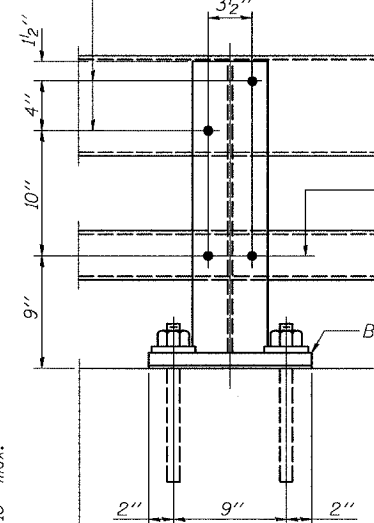


END OF RAIL DETAILS



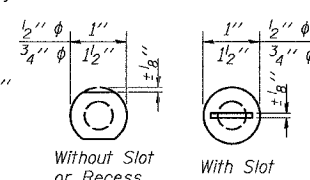
BASE PLATE DETAIL

2-3/4" φ x 6" Round Head Bolts (With slot or approved recess in head.) with locknut and flat washer.
7/8" φ Holes in tubing and posts. Holes in hollow structural section may be drilled in the field.



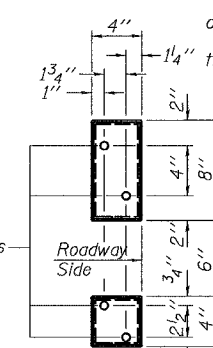
SECTION A-A

2-1/2" φ x 6" Round Head Bolts (With slot or approved recess in head.) with locknut and flat washer.
5/8" φ Holes in hollow structural section and post. Holes in hollow structural section may be drilled in the field.

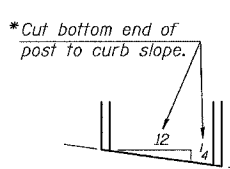


VIEW B-B

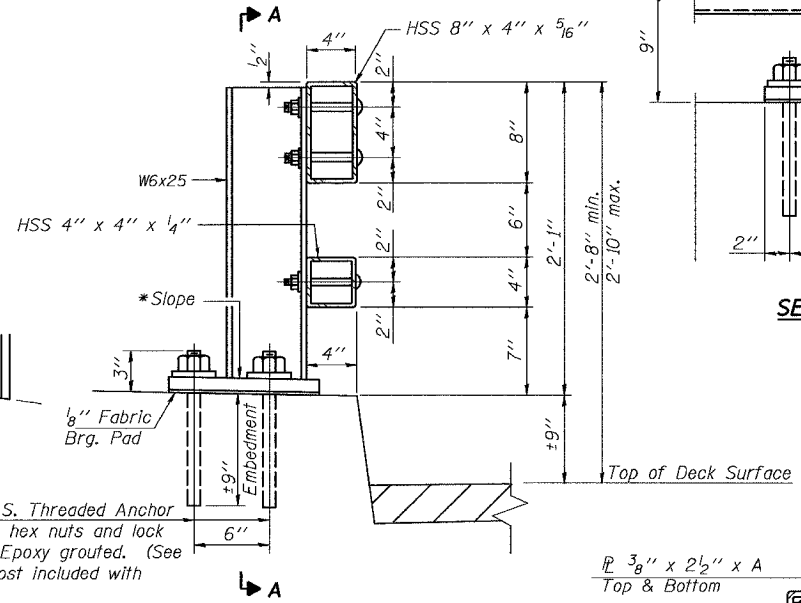
4-5/8" reduced base welded studs. Provide 4-5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032



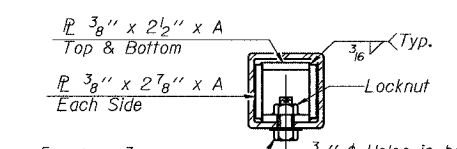
VIEW C-C



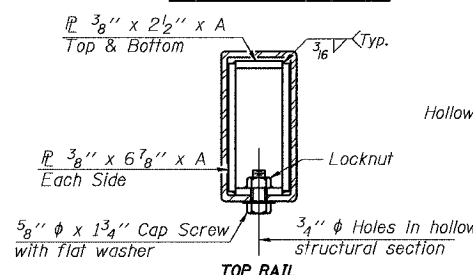
*Cut bottom end of post to curb slope.



SECTION AT RAIL POST



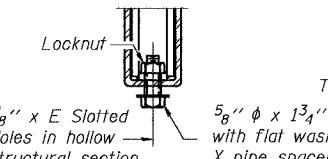
BOTTOM RAIL



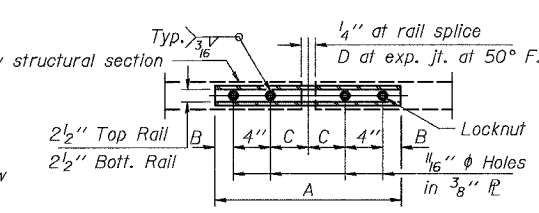
TOP RAIL

DETAIL OF 1/2" φ & 3/4" φ ROUND HEAD BOLTS

SECTIONS AT RAIL SPLICE



RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE TYPICAL

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	63

SPLICE DIMENSIONS

T	D	A	B	C	E
≤4"	2 1/2"	1'-8"	2"	4"	2 1/2"
>4" ≤6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
>6 1/2" ≤9"	5"	2'-4"	3 1/2"	6 1/2"	9"
>9" ≤13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1 1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

STEEL BRIDGE RAIL
CURB MOUNTED (2399)
OLD IL ROUTE 3
OVER
HILL LAKE CREEK
F.A.U. ROUTE 9296
SECTION 65BR
MONROE COUNTY
STATION 26+34
STRUCTURE NO. 067-0041



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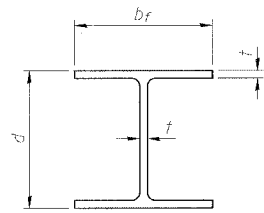
DESIGNED	- LEL
CHECKED	- REG
DRAWN	- LEL
CHECKED	-

10-22-04

(6'-3" Maximum Post Spacing)

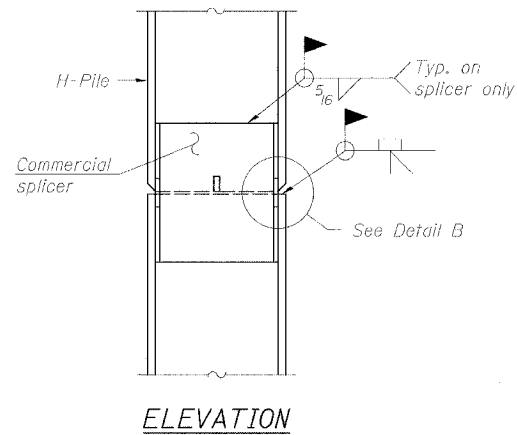
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5 5 SHEETS
FAU 9296	65BR	MONROE	22	13	
FED. ROAD DIST. NO. 7		ILLINOIS		F.A.U. PROJECT	
Contract # 76381					

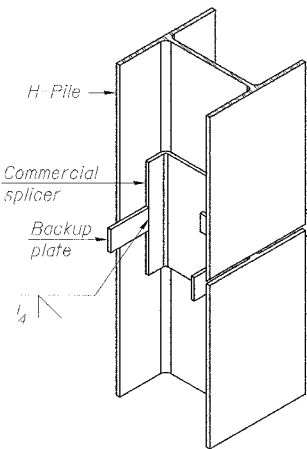


STEEL PILE TABLE

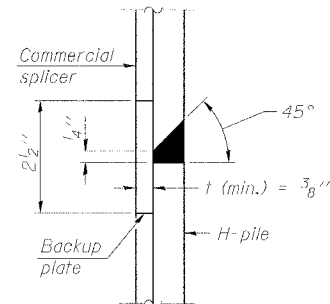
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	5/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	5/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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



ELEVATION

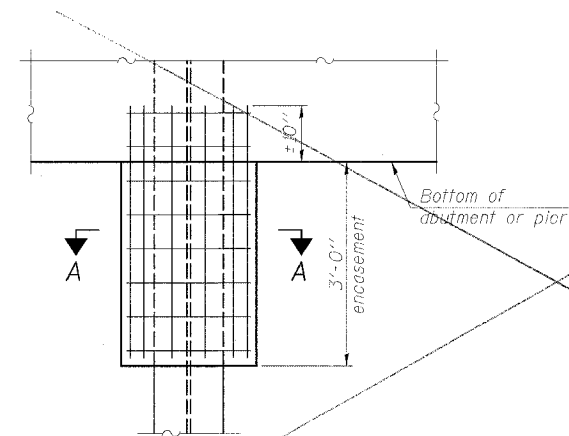


ISOMETRIC VIEW



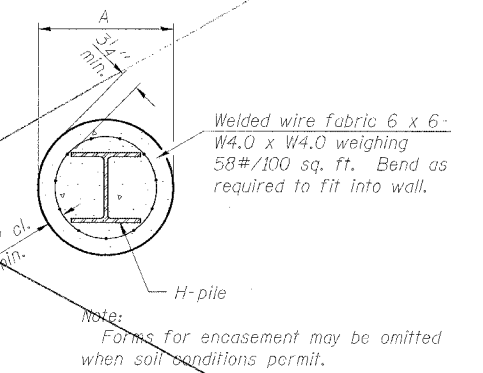
DETAIL "B"

WELDED COMMERCIAL SPLICE



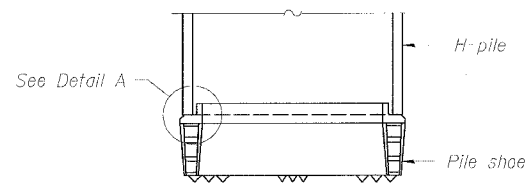
ELEVATION

PILE ENCASEMENT

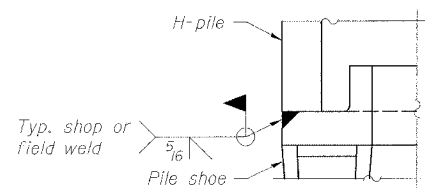


SECTION A-A

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

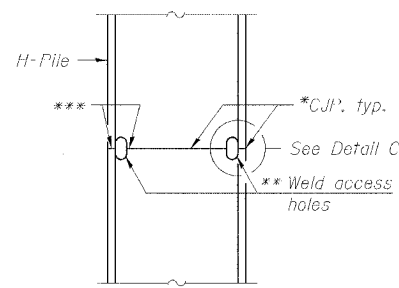


ELEVATION

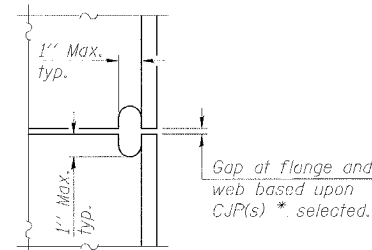


DETAIL A

H-PILE SHOE ATTACHMENT

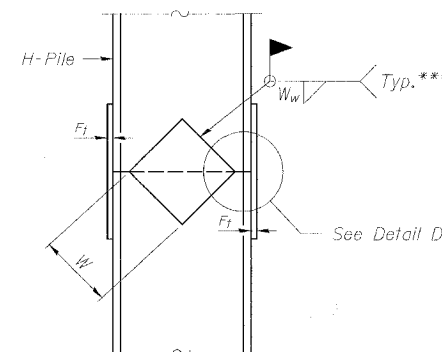


ELEVATION

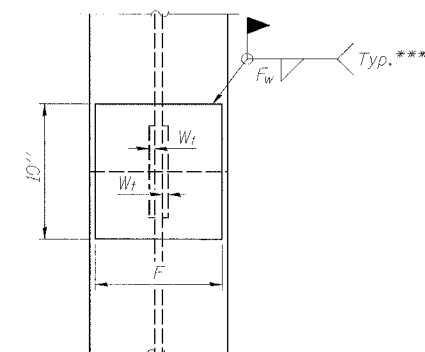


DETAIL C

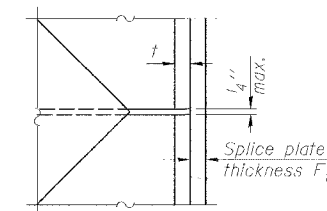
COMPLETE PENETRATION WELD SPLICE



ELEVATION



END VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F _t	F _w	W	W _t	W _w
HP 12x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"

STEEL H-PILE DETAIL
OLD IL ROUTE 3
OVER
HILL LAKE CREEK
F.A.U. ROUTE 9296
SECTION 65BR
MONROE COUNTY
STATION 26+34
STRUCTURE NO. 067-0041

DESIGNED	LEL
CHECKED	REG
DRAWN	LEL
CHECKED	-

F-HP

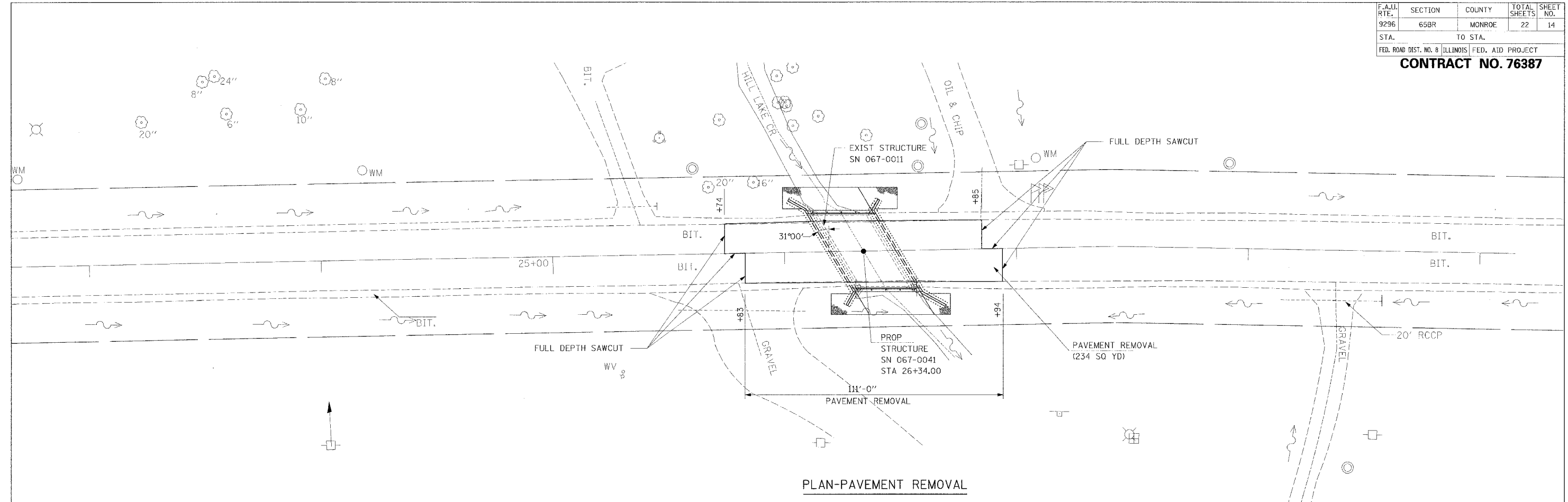
11-1-06

- * Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.
- ** Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.
- *** Interrupt welds 1/4" from end of each pile.

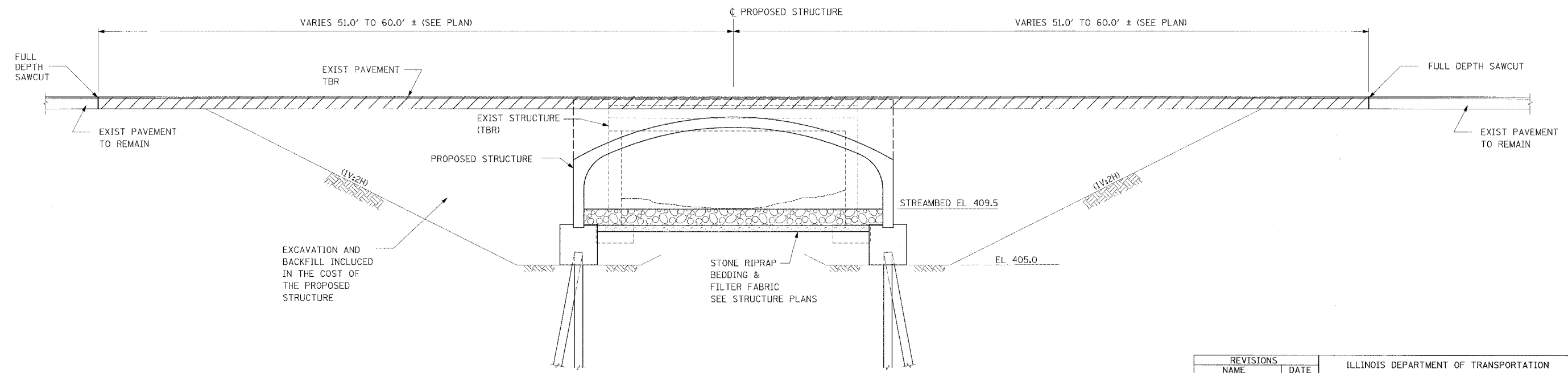
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

BENTON & ASSOCIATES, INC.
Consulting Engineers / Land Surveyors
1970 West Lafayette Ave. Jacksonville, IL 62650
Phone: 217-245-4146 Fax: 217-245-4149
IL Design Firm Registration No. 184-000852

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	65BR	MONROE	22	14
STA.	TO STA.			
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 76387				



PLAN-PAVEMENT REMOVAL



SECTION THRU PROPOSED STRUCTURE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**PAVEMENT REMOVAL
DETAIL**

SCALE: VERT. DRAWN BY LEL
HORIZ. CHECKED BY LLO
DATE JANUARY 2007

FAU NO/ST	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	65BR	MONROE	22	15
STA. _____		TO STA. _____		
EXISTING CONDITIONS:				

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG Page 1 of 3 Date 11/18/02

ROUTE FAU 9296 DESCRIPTION Old IL Route 3 over Hill Lake Creek LOGGED BY WLF & MEA

SECTION 65BR LOCATION SEC. TWP. 1S, RING. 10W, 3 PM

COUNTY Monroe DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 067-0011 Station 26+34

BORING NO. 1 S Abut Station 26+50 Offset 14.50ft LT

Ground Surface Elev. 418 ft

Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	(ft)	(in)	(ft)	(in)	(%)	(%)	(min)	(ft)
		406.5											

Gray LOAM

Gray Silty Clay LOAM

Sand Lens

Brown and Gray Silty Clay LOAM

Brown Clay LOAM

Gray Silty CLAY

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

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG Page 2 of 3 Date 11/18/02

ROUTE FAU 9296 DESCRIPTION Old IL Route 3 over Hill Lake Creek LOGGED BY WLF & MEA

SECTION 65BR LOCATION SEC. TWP. 1S, RING. 10W, 3 PM

COUNTY Monroe DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 067-0011 Station 26+34

BORING NO. 1 S Abut Station 26+50 Offset 14.50ft LT

Ground Surface Elev. 418 ft

Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	(ft)	(in)	(ft)	(in)	(%)	(%)	(min)	(ft)
		406.5											

Gray SILT

Reddish Gray Silty CLAY

Limestone GRAVEL with Gray Sand

Borehole continued with rock coring.

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

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

ROCK BORING LOG Page 3 of 3 Date 11/18/02

ROUTE FAU 9296 DESCRIPTION Old IL Route 3 over Hill Lake Creek LOGGED BY WLF & MEA

SECTION 65BR LOCATION SEC. TWP. 1S, RING. 10W, 3 PM

COUNTY Monroe CORING METHOD Tri Cone Roller

STRUCT. NO. 067-0011 Station 26+34

BORING NO. 1 S Abut Station 26+50 Offset 14.50ft LT

Ground Surface Elev. 418 ft

Top of Rock Elev.	Begin Core Elev.	(ft)	(in)	(%)	(%)	(min)	(ft)
347.50	347.50						

Gray LIMESTONE in Broken Layers and Some Voids

End of Boring and Rock Core

Color pictures of the cores
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG Page 1 of 3 Date 11/21/02

ROUTE FAU 9296 DESCRIPTION Old IL Route 3 over Hill Lake Creek LOGGED BY Larry Ford

SECTION 65BR LOCATION SEC. TWP. 1S, RING. 10W, 3 PM

COUNTY Monroe DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 067-0011 Station 26+34

BORING NO. 2 N Abut Station 26+25 Offset 15.50ft RT

Ground Surface Elev. 418.4 ft

Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	(ft)	(in)	(ft)	(in)	(%)	(%)	(min)	(ft)
		405.9											

Brown and Gray Silty CLAY (continued)

(with some Limestone Gravel)

Brown Silty CLAY

Gray Sandy Clay LOAM

Brown Sandy Clay LOAM with Weathered Limestone Gravel

Brown Silty LOAM (wet & saturated)

Brown and Gray Silty CLAY

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

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG Page 2 of 3 Date 11/21/02

ROUTE FAU 9296 DESCRIPTION Old IL Route 3 over Hill Lake Creek LOGGED BY Larry Ford

SECTION 65BR LOCATION SEC. TWP. 1S, RING. 10W, 3 PM

COUNTY Monroe DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO. 067-0011 Station 26+34

BORING NO. 2 N Abut Station 26+25 Offset 15.50ft RT

Ground Surface Elev. 418.4 ft

Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	(ft)	(in)	(ft)	(in)	(%)	(%)	(min)	(ft)
		405.9											

Reddish Gray Silty CLAY

Gray Silty CLAY (continued)

(with broken Limestone Gravel)

Drilled as weathered shelves of limestone

Borehole continued with rock coring.

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

Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

ROCK BORING LOG Page 3 of 3 Date 11/21/02

ROUTE FAU 9296 DESCRIPTION Old IL Route 3 over Hill Lake Creek LOGGED BY Larry Ford

SECTION 65BR LOCATION SEC. TWP. 1S, RING. 10W, 3 PM

COUNTY Monroe CORING METHOD Tri Cone Roller

STRUCT. NO. 067-0011 Station 26+34

BORING NO. 2 N Abut Station 26+25 Offset 15.50ft RT

Ground Surface Elev. 418.4 ft

Top of Rock Elev.	Begin Core Elev.	(ft)	(in)	(%)	(%)	(min)	(ft)
345.40	345.40						

Gray LIMESTONE with some voids

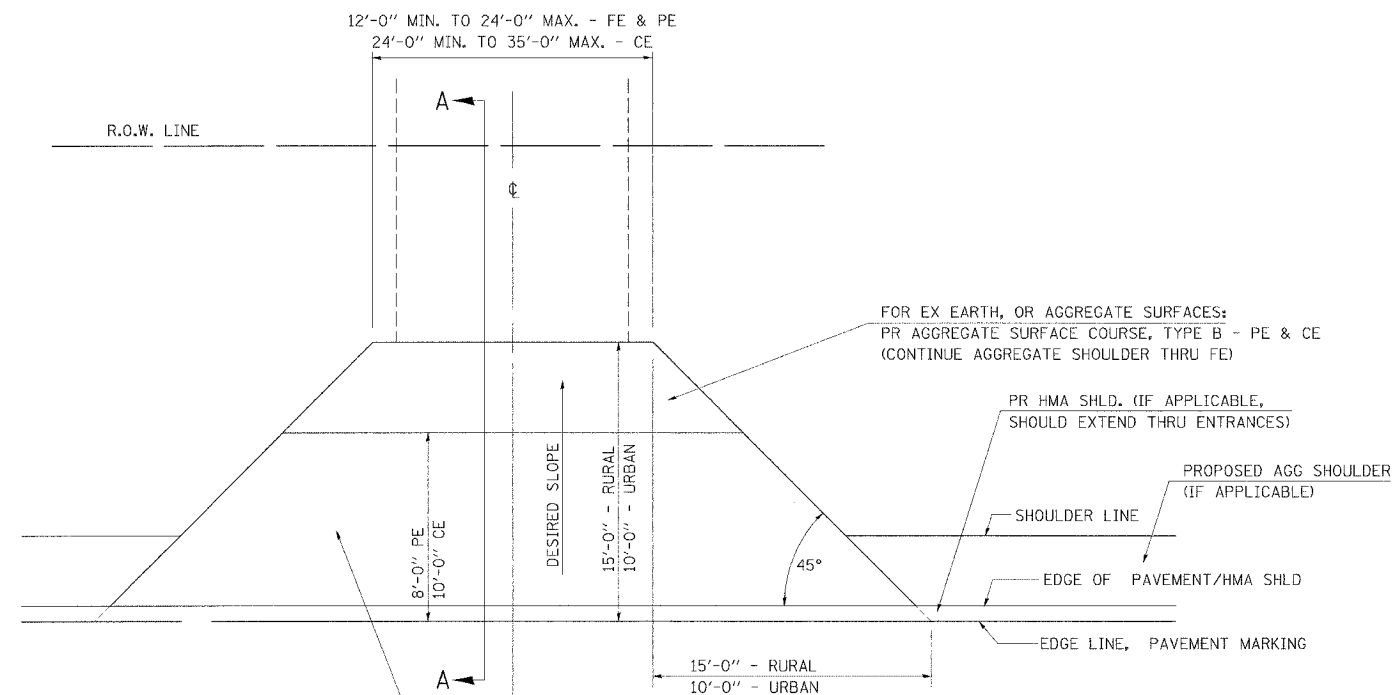
End of Boring and Rock Core

Color pictures of the cores
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORING LOGS
FAU ROUTE 9296
SECTION 65BR
MONROE COUNTY

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	65BR	MONROE	22	16
STA.		TO STA.		
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

CONTRACT NO. 76387



FOR EX EARTH OR AGGREGATE SURFACES:
 PR HMA SURFACE REMOVAL (IF APPLICABLE)
 PR AGGREGATE SHOULDER THRU - FE
 PR HMA SURFACE 3 1/2" - PE
 PR HMA SURFACE 8" - CE

FOR EX HOT-MIX ASPHALT SURFACES:
 PR HOT-MIX ASPHALT SURFACE REMOVAL-BUTT JOINT

FOR EX PCC SURFACES:
 PR PCC SURFACE REMOVAL-BUTT JOINT

FOR EX EARTH, OR AGGREGATE SURFACES:
 PR AGGREGATE SURFACE COURSE, TYPE B - PE & CE
 (CONTINUE AGGREGATE SHOULDER THRU FE)

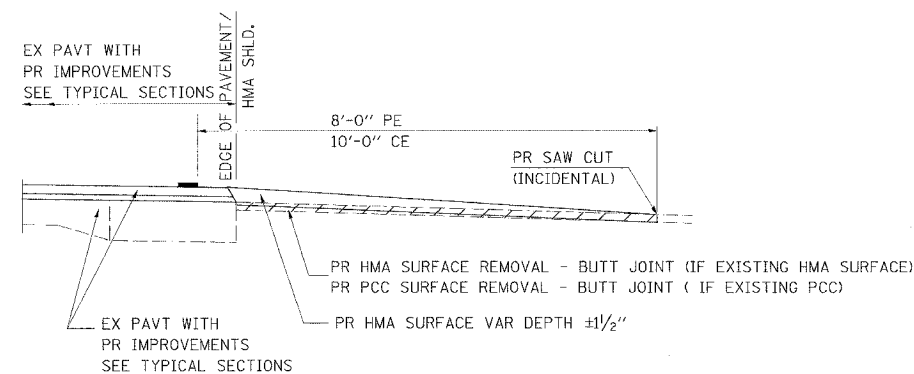
PR HMA SHLD. (IF APPLICABLE,
 SHOULD EXTEND THRU ENTRANCES)

PROPOSED AGG SHOULDER
 (IF APPLICABLE)

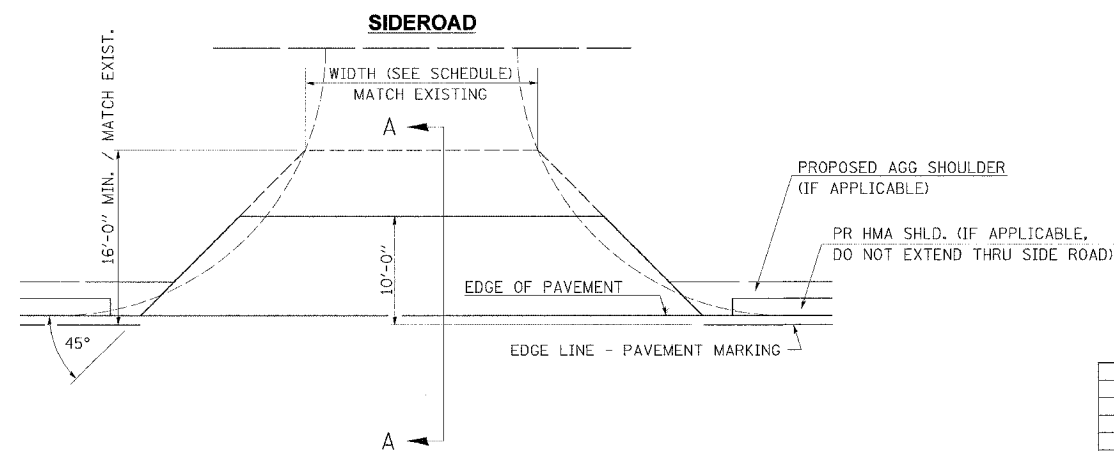
SHOULDER LINE

EDGE OF PAVEMENT/HMA SHLD

EDGE LINE, PAVEMENT MARKING



SECTION A-A FOR EX HOT-MIX ASPHALT/ PC CONCRETE PE, CE & SIDE ROAD



NOTE : IF HMA SHLDS ARE PROPOSED THEY
 SHOULD NOT EXTEND THROUGH SIDEROADS

GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

HOT-MIX ASPHALT REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE ACCORDING TO THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE HOT-MIX ASPHALT PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 75 mm (3 INCHES) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF HOT-MIX ASPHALT BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 50 mm (2 INCHES) SHALL MEET THE REQUIREMENTS OF HOT-MIX ASPHALT SURFACE COURSE.

THIS WORK WILL BE PAID FOR ACCORDING TO SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.

THE LENGTH OF THE IMPROVEMENTS MAY VARY, AS SHOWN ON THE PLANS, DUE TO CULVERT REMOVAL AND REPLACEMENT.

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**DETAILS FOR RURAL / URBAN
 ENTRANCE, MAILBOX TURNOUT
 & SIDEROADS**
 FAU ROUTE 9296
 SECTION 65BR
 MONROE COUNTY

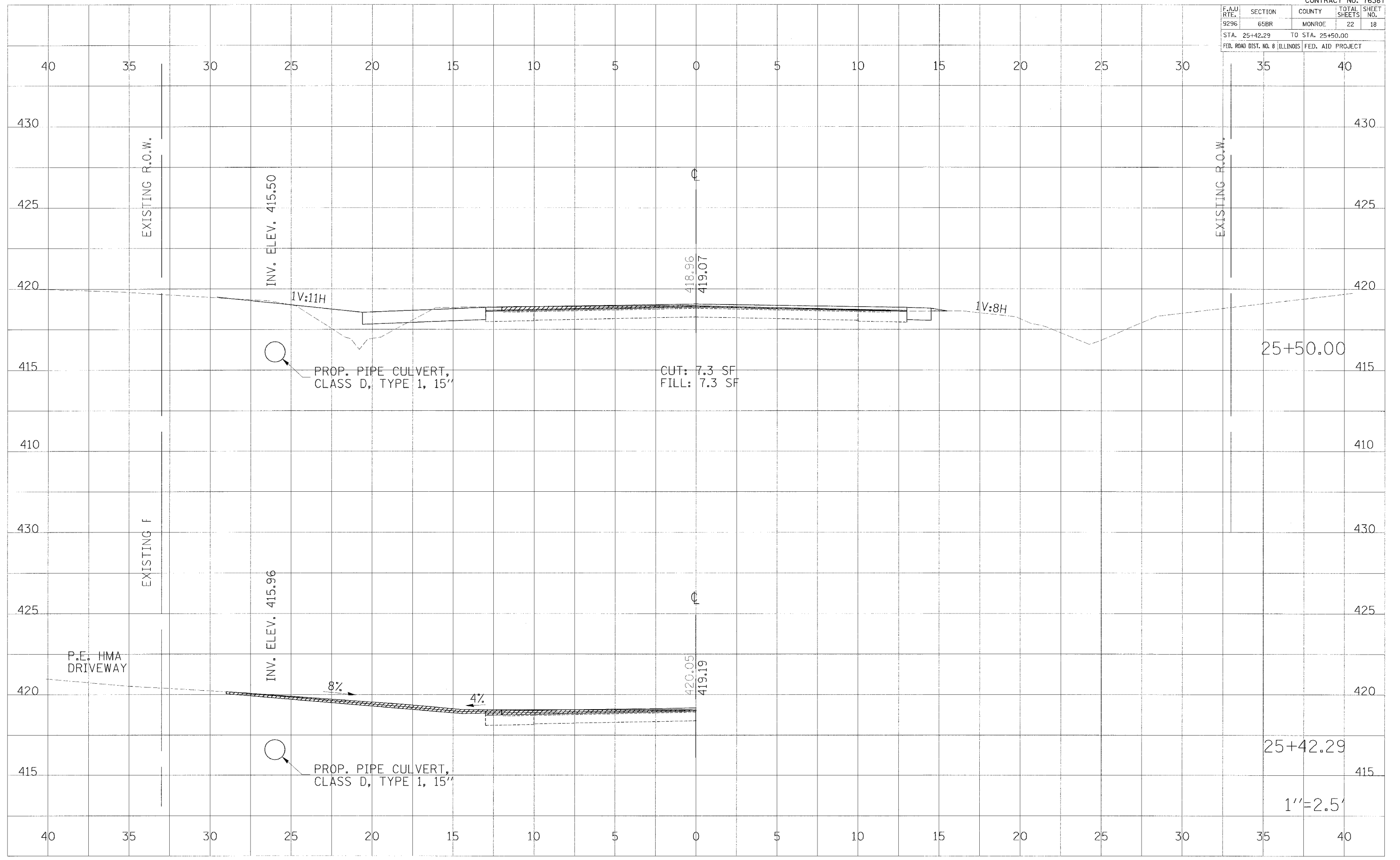
SCALE: VERT. DRAWN BY LLO
 HORIZ. N.T.S. CHECKED BY LEL
 DATE: JANUARY 2007

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9296	65BR	MONROE	22	18
STA. 25+42.29 TO STA. 25+50.00			FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT	

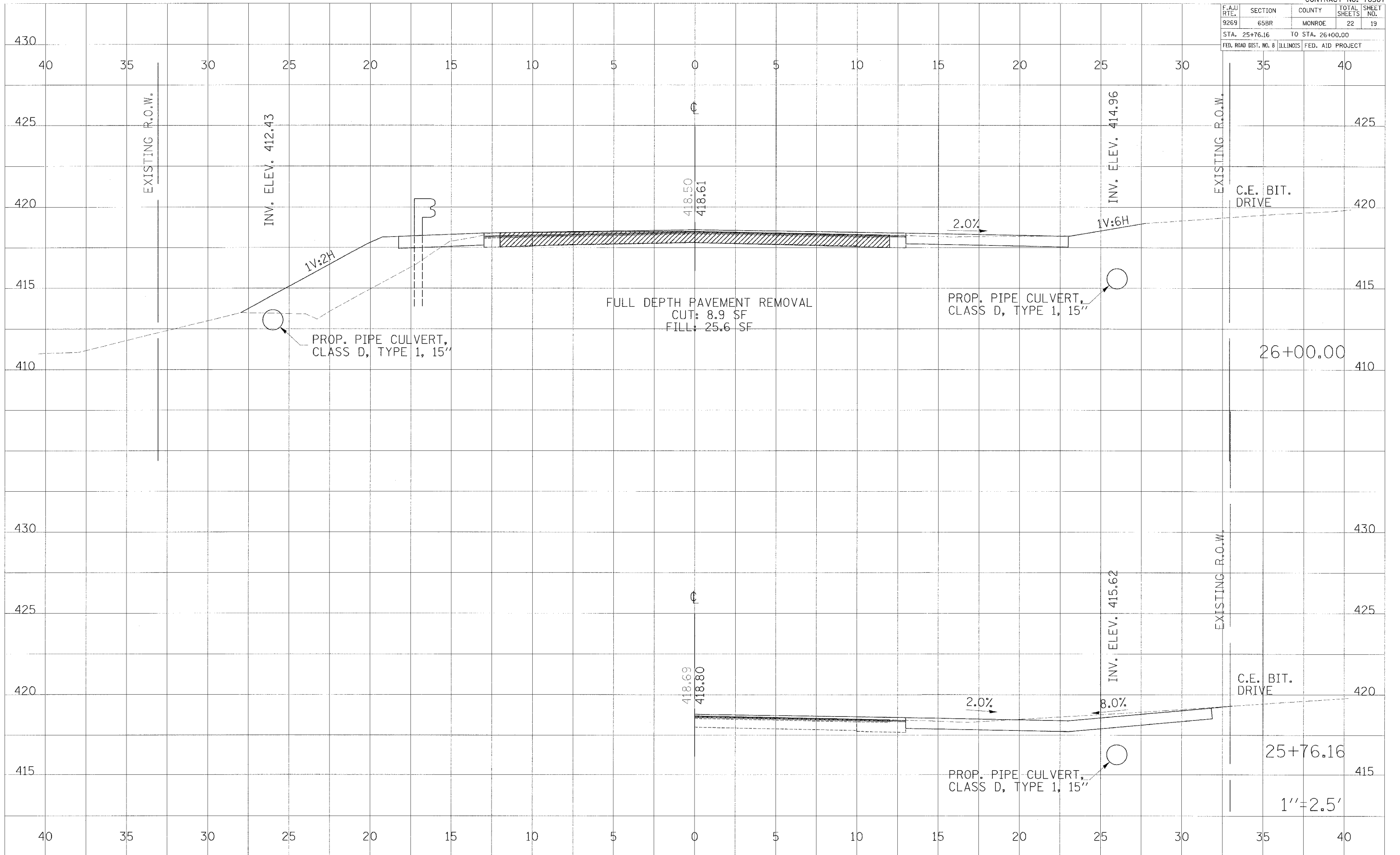
FINAL	DATE
SURVEYED	BY
NOTE BOOK	DATE
AREAS CHECKED	

OPTIONAL	DATE
SURVEYED	BY
NOTE BOOK	DATE
AREAS CHECKED	

PLOT DATE = #DATE#
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#



F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9269	65BR	MONROE	22	19
STA. 25+76.16		TO STA. 26+00.00		
FED. ROAD DIST. NO. 8		ILLINOIS FED. AID PROJECT		



FIN. DATE _____ BY _____ DATE _____
 SURVEYED _____
 5. PLOT _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

ORIGINAL SURVEY _____ BY _____ DATE _____
 5. PLOT _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

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 PLOT SCALE = #SCALE#
 USER NAME = #USER#

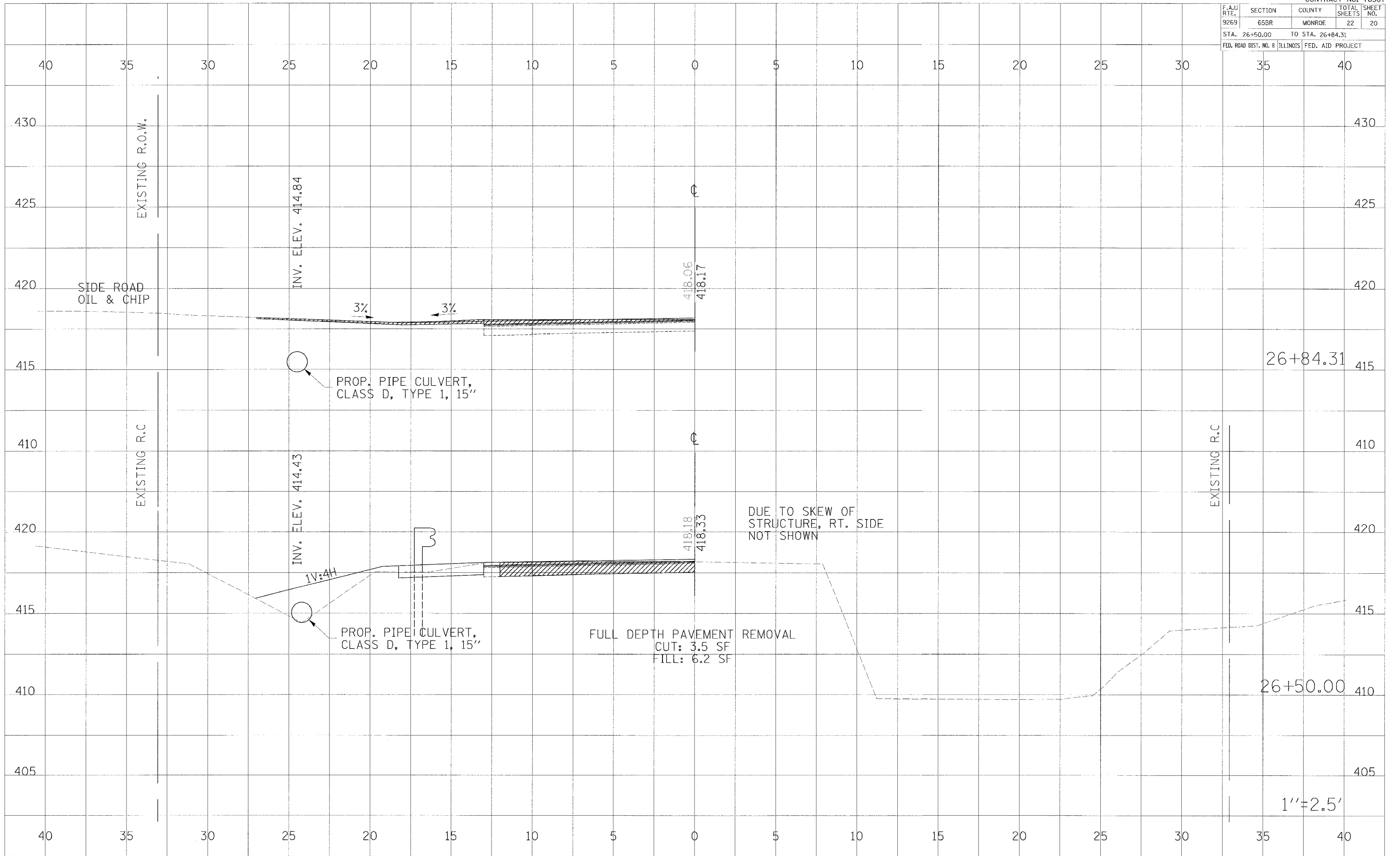
1"=2.5'

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9269	65BR	MONROE	22	20
STA. 26+50.00		TO STA. 26+84.31		
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
BY	
NO.	

ORIGINAL SURVEY	DATE
BY	
NO.	

PLOT DATE = #DATE#
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#



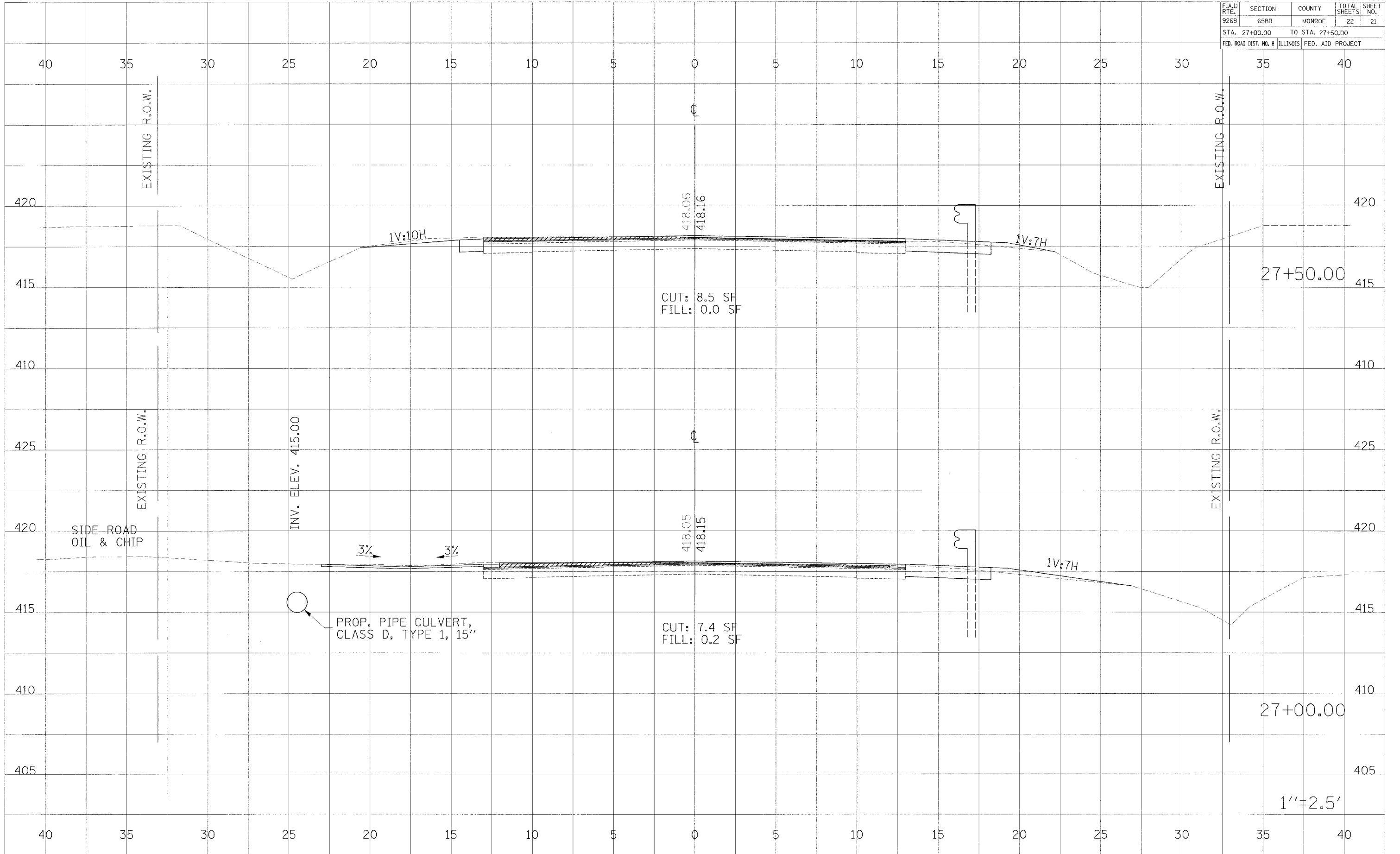
1"=2.5'

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9269	65BR	MONROE	22	21
STA. 27+00.00		TO STA. 27+50.00		
FED. ROAD DIST. NO. 8 ILLINOIS FED. AID PROJECT				

FINAL	DATE
SURVEY	BY
NOTE BOOK	NO.
AREAS CHECKED	

ORIGINAL	DATE
SURVEY	BY
NOTE BOOK	NO.
AREAS CHECKED	

PLOT DATE = 04/07/08
 FILE NAME = 07FILE1
 PLOT SCALE = 0.5000
 USER NAME = 07USER1



1"=2.5'

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6296	65BR	MONROE	22	22
STA. 28+00.00		TO STA. 28+00.00		
FED. ROAD DIST. NO. 8		ILLINOIS FED. AID PROJECT		

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

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

PLOT DATE = 04/07/08
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 PLOT SCALE = #SCALE#
 USER NAME = #USER#

